

HARBOR TERRACE ROOFTOP

284 DANFORTH STREET
PORTLAND, MAINE

APPL CANT:

CINGULAR? WIRELESS

580 MAIN STREET
BOLTON, MA 01140

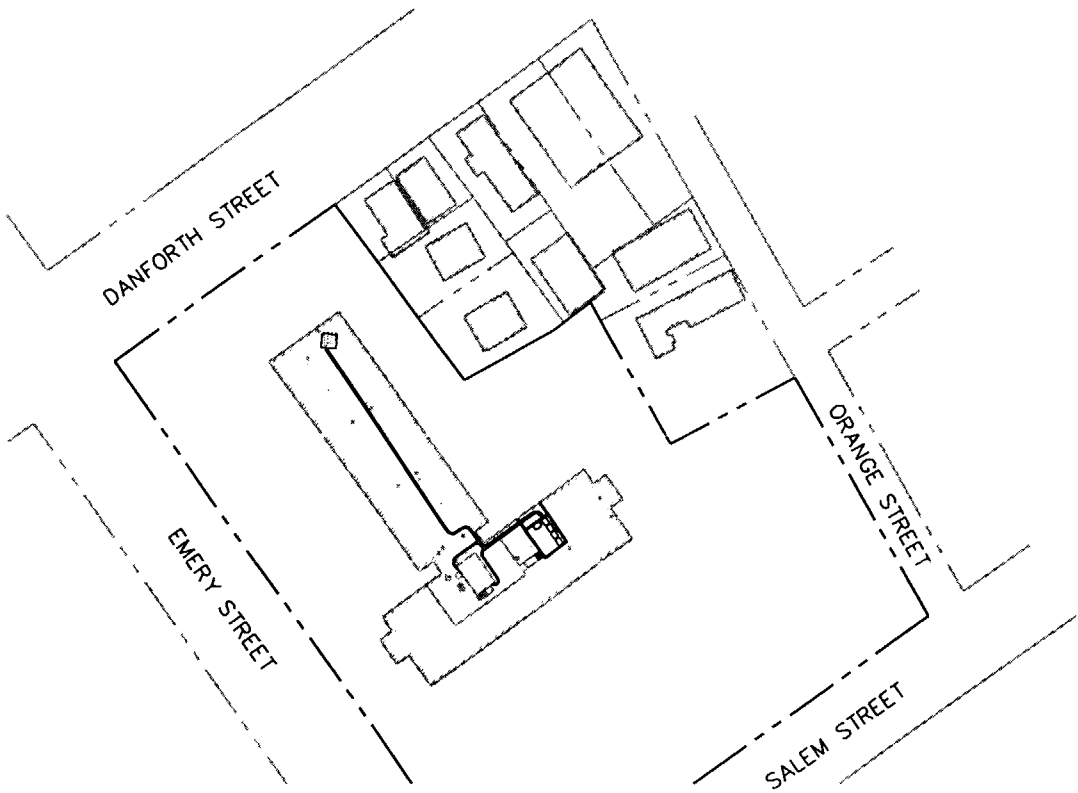
ENGINEER / BURVEYOR:



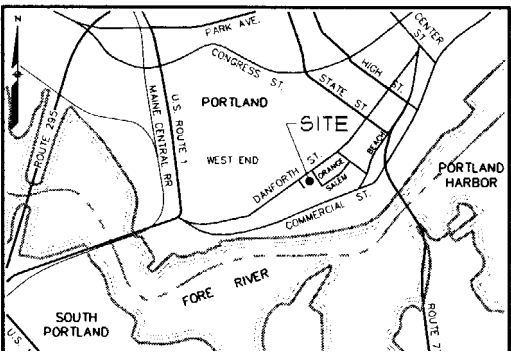
Sebago Technics
Engineering & Planning for the Future
ONE CHABOT STREET
WESTBROOK, ME 04098-1339
TEL (207) 856-0277

ENGINEER:

STRUCTURAL INTEGRITY
180 BEACON STREET
PORTLAND, MAINE 04103



SCALE: 1"=50'

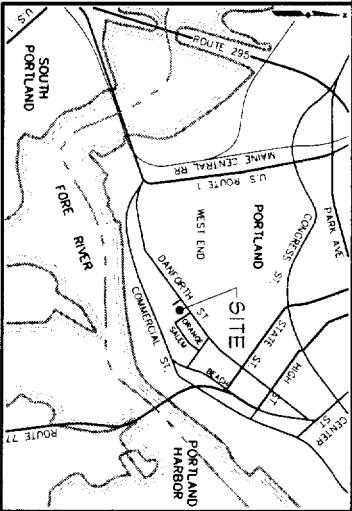
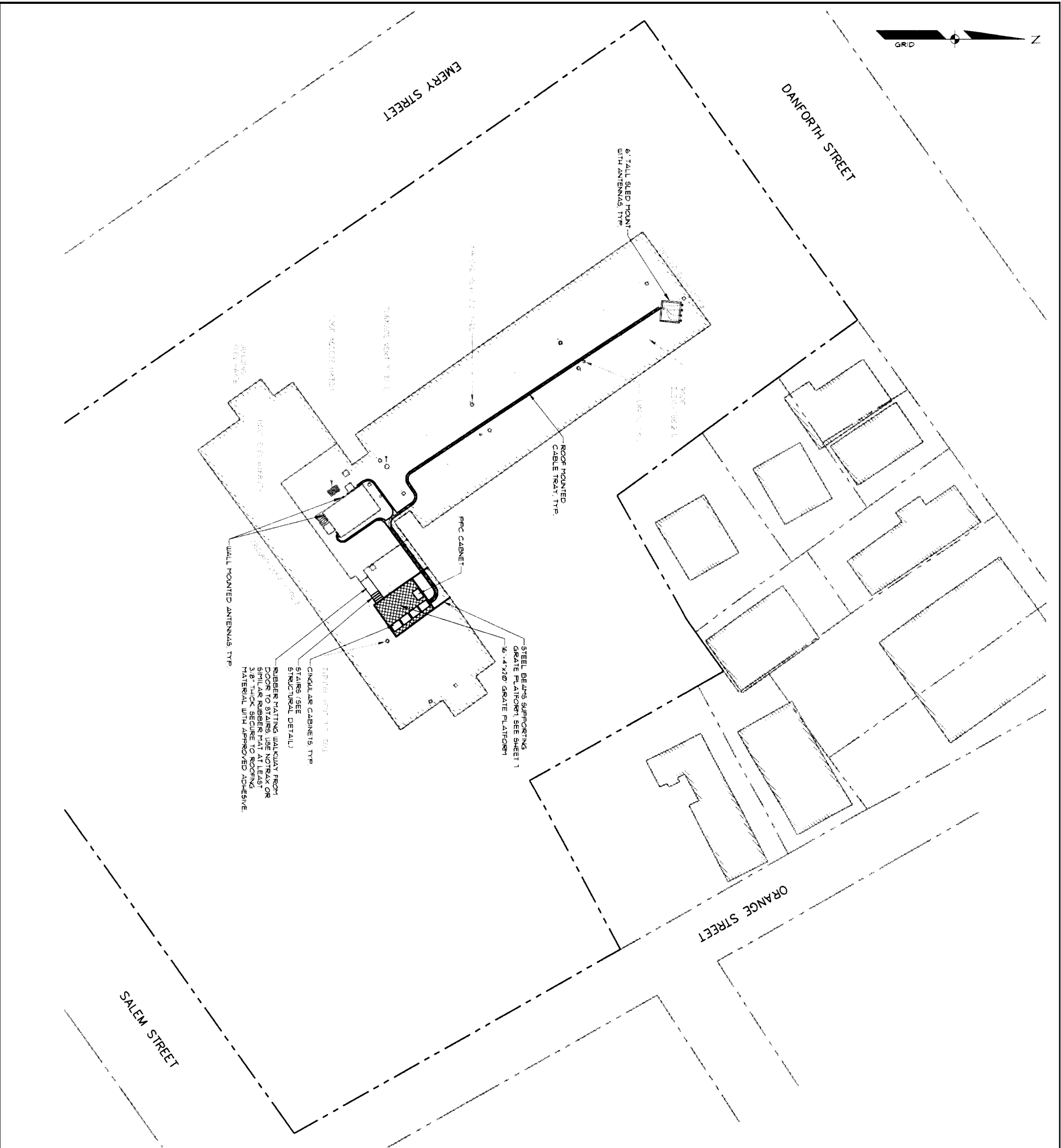


LOCATION MAP

NTS

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SHEET	DESCRIPTION
1	COVER SHEET
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3	BUILDING ELEVATIONS
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6	DETAILS
1	DETAILS



GENERAL NOTES:

1. APPLICANT: CINGULAR WIRELESS
2. RECORD OWNER: PORTLAND AND HOUSING AUTHORITY
3. TAX ASSESSORS REFERENCE: MAP SYBLOCK FLOT
4. PLAT REFERENCES: A. REFERRED BOUNDARY BASED ON PORTLAND GIS DATA
5. TOTAL LOT AREA: 273
6. ZONING DISTRICT: R6
7. USE: ELDERLY HOSE - CURRENT
8. SPACE AND BULK CRITERIA:
 - MIN STREET FRONTAGE: 40 FEET
 - MIN STREET FRONTAGE: 10 FEET
 - MIN REAR YARD: 10 FEET
 - MIN REAR YARD: 10 FEET
 - MAX BUILDING HEIGHT: 45 FEET
9. PARKING SPACE REQUIREMENTS FOR PROPOSED USE:
 - REQUIRED: N/A
 - PROPOSED: 0
10. THE FACILITY IS SERVICED BY CITY SEWER WATER GAS UNDERGROUND ELECTRIC TELEPHONE AND CABLE
11. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS HEREIN SHALL CONFORM TO THE CURRENT CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS
12. THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY THE CITY OF PORTLAND PARKS AND PUBLIC WORKS INSPECTION SERVICES DIVISION IN WRITING THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CITY OF PORTLAND SHALL BE ADVISED OF THE CONSTRUCTION PERMITTING MAY BE REQUIRED AT THE DISCRETION OF THE PUBLIC WORKS AUTHORITY
13. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. THE DEVELOPER OR AN AUTHORIZED AGENT MUST BE AVAILABLE AT ALL TIMES DURING CONSTRUCTION
14. WARNING SIGNS, TRAFFIC BARRICADES OR FLAGMEN APPROPRIATE FOR THE TYPE OF CONSTRUCTION MUST BE PROVIDED TO REGULATE TRAFFIC
15. CONSTRUCTION DEBRIS SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH CITY OF PORTLAND'S SOLID WASTE ORDINANCE CHAPTER 10
16. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AT THEIR EXPENSE
17. PROPERTY MARKERS AND STREET LINE TOWNERS SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE TO OR DISAPPEARANCE OF ANY MARKER SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AT THEIR EXPENSE
18. A PERMIT MUST BE OBTAINED FROM THE CITY OF PORTLAND PARKS AND PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY
19. THE ENTIRE SITE SHALL BE DEVELOPED AND/OR MAINTAINED AS DEPICED ON THE SITE PLAN. APPROVAL OF THE PLANNING AUTHORITY OR PLANNING BOARD SHALL BE REQUIRED PRIOR TO ANY CHANGES TO OR DEVELOPMENT OF THE APPROVED SITE PLAN
20. THE PLANNING AUTHORITY OR PLANNING BOARD SHALL BE ADVISED OF ANY CHANGES TO THE SITE PLAN. APPROVAL OF THE PLANNING AUTHORITY OR PLANNING BOARD SHALL BE REQUIRED PRIOR TO ANY CHANGES TO THE SITE PLAN
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22. TOPOGRAPHIC INFORMATION SHOWN HEREON IS REFERENCED HORIZONTALLY TO THE CITY OF PORTLAND MAP (1981) AND VERTICALLY TO THE CITY OF PORTLAND MAP (1981) AND VERTICALLY TO THE CITY OF PORTLAND MAP (1981)
23. THE PLANNING AUTHORITY OR PLANNING BOARD SHALL BE ADVISED OF ANY CHANGES TO THE SITE PLAN. APPROVAL OF THE PLANNING AUTHORITY OR PLANNING BOARD SHALL BE REQUIRED PRIOR TO ANY CHANGES TO THE SITE PLAN
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02-23-06

DATE

1"=20'

SCALE

SHEET 2 OF 7

SITE PLAN

OF:

HARBOR TERRACE ROOFTOP

284 DANFORTH STREET

PORTLAND, MAINE

FOR:

CINGULAR WIRELESS

180 MAIN STREET

BOLTON, MA 01740

Sebago Technics

Engineering Expertise You Can Build On

One Chobot Street

Westbrook, Me 04098-1339

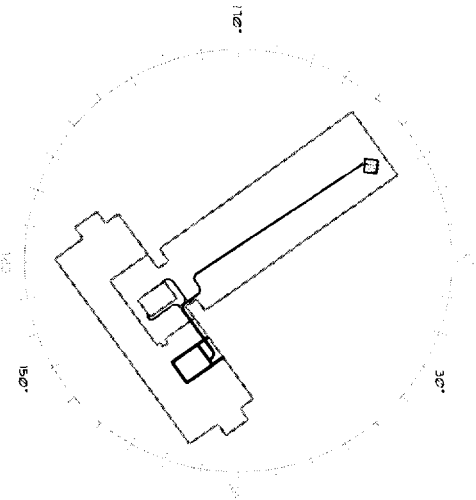
Tel (207) 856-0277

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
05449		DAM	JRS	BRF/DAM

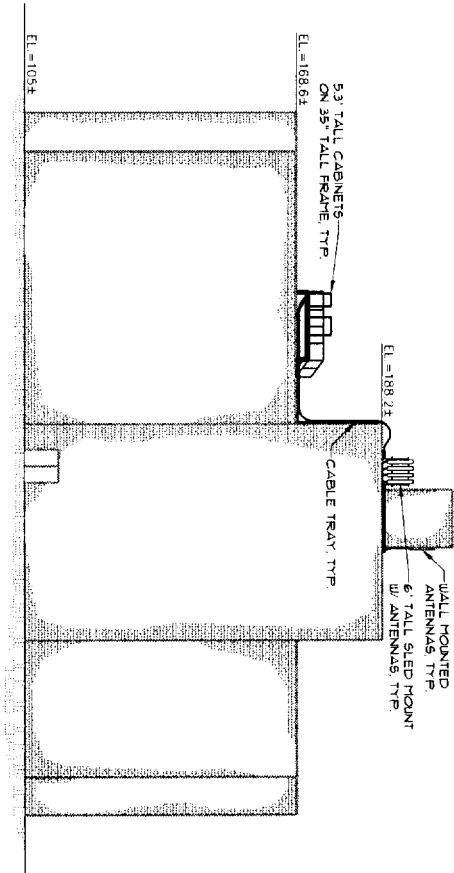
C	DAM	03-28-06	ISSUED FOR CONSTRUCTION
B	DAM	3-6-06	REVISED PER CLIENT COMMENTS
A	DAM	02-27-06	ISSUED FOR CLIENT REVIEW
REV:	BY:	DATE:	STATUS

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

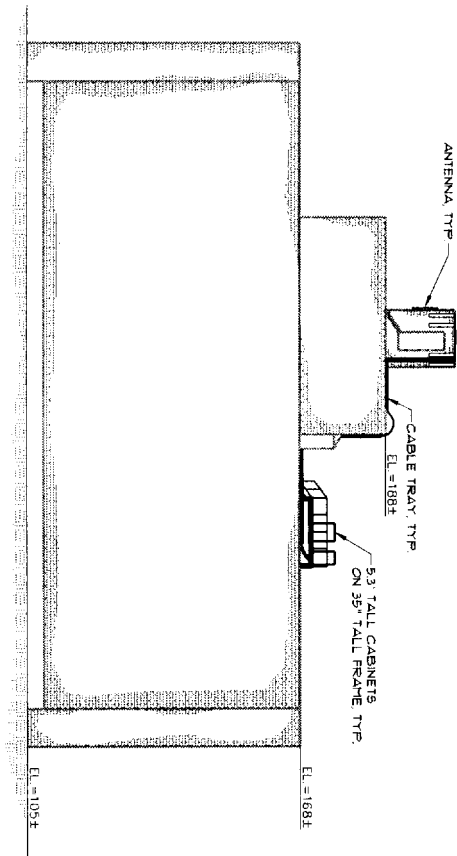
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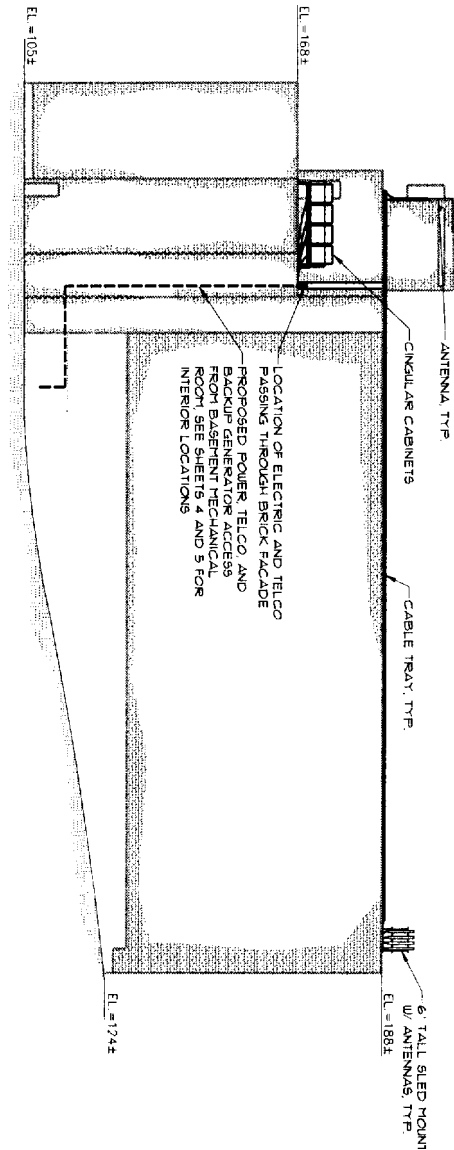
SCHEMATIC ANTENNA
PLAN VIEW
NOT TO SCALE



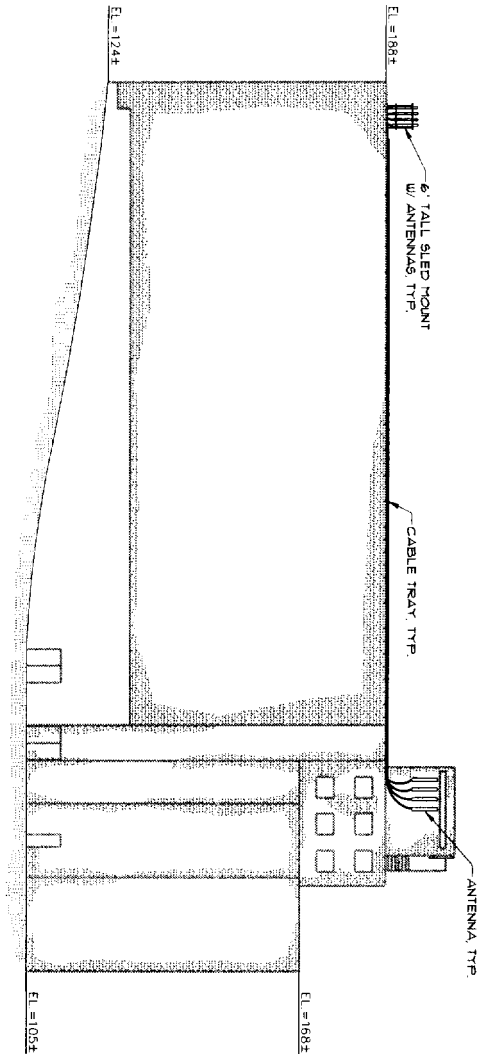
NORTH WEST ELEVATION



SOUTH EAST ELEVATION



NORTH EAST ELEVATION



SOUTH WEST ELEVATION

SHEET 3 OF 2	DATE: 02-21-06 SCALE: 1"=20'	BUILDING ELEVATIONS OF: HARBOR TERRACE ROOFTOP 284 DANFORTH STREET PORTLAND, MAINE F3R CINGULAR WIRELESS 580 MAIN STREET BOLTON, MA 01740	Sebago Technics Engineering Expertise You Can Build On One Onabot Street Westbrook, Me 04096-1339 Tel: (207) 856-0277	PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN																		
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A	DAM	2-27-06	ISSUED FOR CLIENT REVIEW																							

GENERAL ELECTRICAL NOTES:

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM 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 THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGNOSTIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE.
- EACH CONDUCTOR OF VERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC. IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM EMERGENCY THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 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 UNDERWRITERS LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" 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 NFPA.
- ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND OSHA.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF NOTICE OF COMPLETION FILED BY THE CONTRACTOR AND SIGNED OFF BY CONSTRUCTION ENGINEER. 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. WARRANTIES SHOULD REFLECT SAME DATE.
- ALL CONDUIT ONLY (CO) SHALL HAVE A FULL WIRE OR ROPE.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 10000 AIC.
- THE ENTIRE ELECTRICAL, ANTENNA, AND ROOF MOUNTED EQUIPMENT INSTALLATIONS SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE ELECTRICAL AND BUILDING CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT ETC. MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
- GROUNDING CONDUCTORS SHALL BE SOLID TINED COPPER AND ANNEALED #4.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG, COPPER WELD OR APPROVED EQUAL.
- ALL MATERIALS SHALL BE UL LISTED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE UL LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, AND/OR PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDINGS EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE FLAMPROOF UNARMED WITH MANTIS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE UL LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE UL LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JACKET" OR "SQUEEZE" TYPE SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- 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.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND PURSH TO CIRCULAR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

THROUGH PENETRATION FIRESTOP GENERAL NOTES:

- GENERAL
- SUMMARY

A. THIS SECTION INCLUDES THROUGH-PENETRATION FIRESTOP SYSTEMS FOR PENETRATIONS THROUGH THE FOLLOWING FIRE-RESISTANCE RATED ASSEMBLIES, INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS:

 - FLOORS
 - WALLS AND PARTITIONS
 - PERFORMANCE REQUIREMENTS

A. GENERAL: FOR THE FOLLOWING CONSTRUCTIONS, PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY PENETRATED.
 - FIRE-RESISTANCE RATED NON-LOAD BEARING WALLS, INCLUDING PARTITIONS WITH FIRE-PROTECTION-RATE OPENINGS
 - FIRE-RESISTANCE RATED FLOOR ASSEMBLIES
 - F-RATED SYSTEMS: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS WITH F-RATINGS INDICATED, AS DETERMINED PER ASTM E 814, BUT NOT LESS THAN THAT EQUALING OR EXCEEDING FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.
 - T-RATED SYSTEMS: FOR THE FOLLOWING CONDITIONS, PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS WITH T-RATINGS INDICATED, AS WELL AS F-RATINGS, AS DETERMINED PER ASTM E 814, WHERE SYSTEMS PROTECT PENETRATING ITEMS EXPOSED TO POTENTIAL CONTACT WITH ADJACENT MATERIALS IN OCCUPIABLE FLOOR AREAS:
 - PENETRATIONS LOCATED IN CONSTRUCTION CONTAINING FIRE-PROTECTION-RATED OPENINGS
 - PENETRATING ITEMS LARGER THAN 4-INCH (100-MM) DIAMETER NOMINAL PIPE OR 6 SQ. IN. (100 SQ. CM) IN OVERALL CROSS-SECTIONAL AREA
 - FOR THROUGH-PENETRATION FIRESTOP SYSTEMS EXPOSED TO VIEW, TRAFFIC, MOISTURE, AND PHYSICAL DAMAGE, PROVIDE PRODUCTS THAT AFTER CURING DO NOT DETERIORATE WHEN EXPOSED TO THESE CONDITIONS BOTH DURING AND AFTER CONSTRUCTION:
 - FOR PIPING PENETRATIONS FOR PLUMBING AND LIQ. PIPE SPRINKLER SYSTEMS, PROVIDE MOISTURE-RESISTANT THROUGH-PENETRATION FIRESTOP SYSTEMS
 - FOR FLOOR PENETRATIONS WITH ANNULAR SPACES EXCEEDING 4 INCHES (100 MM) IN WIDTH AND EXPOSED TO POSSIBLE LOADING AND TRAFFIC, PROVIDE FIRESTOP SYSTEMS CAPABLE OF SUPPORTING FLOOR LOADS INVOLVED EITHER BY INSTALLING FLOOR PLATES OR BY OTHER MEANS
 - FOR PENETRATIONS INVOLVING INSULATED PIPING, PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS NOT REQUIRING REMOVAL OF INSULATION - QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED THROUGH-PENETRATION FIRESTOP SYSTEMS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE

B. SOURCE LIMITATIONS: OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS FOR EACH KIND OF PENETRATION AND CONSTRUCTION CONDITION INDICATED, FROM A SINGLE MANUFACTURER

C. FIRE TEST RESPONSE CHARACTERISTICS: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT COMPLY WITH THE FOLLOWING REQUIREMENTS AND THOSE SPECIFIED IN "PERFORMANCE REQUIREMENTS" ARTICLE.
 - FIRESTOPPING TESTS ARE PERFORMED BY A QUALIFIED TESTING AND INSPECTING AGENCY. A QUALIFIED TESTING AND INSPECTING AGENCY IS UL OR ANOTHER AGENCY PERFORMING TESTING AND FOLLOW-UP INSPECTION SERVICES FOR FIRESTOP SYSTEMS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 - THROUGH-PENETRATION FIRESTOP SYSTEMS ARE IDENTICAL TO THOSE TESTED PER ASTM E 814. PROVIDE RATED SYSTEMS COMPLYING WITH THE FOLLOWING REQUIREMENTS:
 - THROUGH-PENETRATION FIRESTOP SYSTEM PRODUCTS BEAR CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTING AGENCY.
 - THROUGH-PENETRATION FIRESTOP SYSTEMS CORRESPOND TO THOSE INDICATED BY REFERENCE TO THROUGH-PENETRATION FIRESTOP SYSTEM DESIGNATIONS LISTED BY THE FOLLOWING:
 - UL IN "FIRE RESISTANCE DIRECTORY."
- PROJECT CONDITIONS
- ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL THROUGH-PENETRATION FIRESTOP SYSTEMS WHEN AMBIENT OR SUBSTRATE TEMPERATURES ARE OUTSIDE LIMITS PERMITTED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURERS OR WHEN SUBSTRATES ARE LIET DUE TO RAIN, FROST, CONDENSATION, OR OTHER CAUSES.
 - VENTILATE THROUGH-PENETRATION FIRESTOP SYSTEMS PER MANUFACTURER'S WRITTEN INSTRUCTIONS BY NATURAL MEANS OR, WHERE THIS IS INADEQUATE, FORCED-AIR CIRCULATION.
- COORDINATION
- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED REQUIREMENTS.
 - COORDINATE SIZING OF GLEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- PRODUCTS
- AVAILABLE MANUFACTURERS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A/D FIRE PROTECTION SYSTEMS INC.
 - DAP INC.
 - FIRESTOP SYSTEMS INC.
 - HILTI CONSTRUCTION CHEMICALS INC.
 - INSTANT FIRESTOP MFG. INC.
 - INTERNATIONAL PROTECTIVE COATINGS CORP.
 - ISOLATEK INTERNATIONAL
 - NELSON FIRESTOP PRODUCTS
 - NICO INDUSTRIES
 - RECTORSEAL CORPORATION (THE)
 - SPECIFIED TECHNOLOGIES INC.
 - JIT FIRE PROTECTION PRODUCTS
 - TRESCO
 - UNITED STATES GYPSUM COMPANY.
- FIRESTOPPING GENERAL
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH THE ITEMS IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
 - ACCESSORIES: PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO COMPLY WITH "PERFORMANCE REQUIREMENTS" ARTICLE. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY THE QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED. ACCESSORIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ITEMS:
 - PERMANENT FORMING/DAMPING BACKING MATERIALS, INCLUDING THE FOLLOWING:
 - SLAG/ROCK-WOOL-FIBER INSULATION
 - SEALANTS USED IN COMBINATION WITH OTHER FORMING/DAMPING BACKING MATERIALS TO PREVENT LEAKAGE OF FILL MATERIALS IN LIQUID STATE
 - FIRE-RATED FORM BOARD
 - FILLERS FOR SEALANTS
 - TEMPORARY FORMING MATERIALS
 - SUBSTRATE PRIMERS
 - COLLARS
 - STEEL SLEEVES
- EXECUTION
- EXAMINATION

A. EXAMINE SUBSTRATES AND CONDITIONS WITH INSTALLER PRESENT, FOR THROUGH-PENETRATION FIRESTOP SYSTEMS TO COMPLY WITH PENETRATING ITEMS, SUBSTRATES, AND OTHER CONDITIONS AFFECTING PERFORMANCE.

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
 - PREPARATION

A. SURFACE CLEANING: CLEAN OUT OPENINGS IMMEDIATELY BEFORE INSTALLING THROUGH-PENETRATION FIRESTOP SYSTEMS TO COMPLY WITH WRITTEN RECOMMENDATIONS OF FIRESTOP SYSTEM MANUFACTURER AND THE FOLLOWING REQUIREMENTS:
 - REMOVE FROM SURFACES OF OPENINGS SUBSTRATES AND FROM PENETRATING ITEMS FOREIGN MATERIALS THAT COULD INTERFERE WITH ADHESION OF THROUGH-PENETRATION FIRESTOP SYSTEMS
 - CLEAN OPENING SUBSTRATES AND PENETRATING ITEMS TO PRODUCE CLEAN, SOUND SURFACES CAPABLE OF DEVELOPING OPTIMUM BOND WITH THROUGH-PENETRATION FIRESTOP SYSTEMS. REMOVE LOOSE PARTICLES REMAINING FROM CLEANING OPERATION
 - REMOVE LAITANCE AND FORM-RELEASE AGENTS FROM CONCRETE
 - PRIMING: PRIME SUBSTRATES WHERE RECOMMENDED IN WRITING BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER USING THAT MANUFACTURER'S RECOMMENDED PRODUCTS AND METHODS. CONFINE PRIMERS TO AREAS OF BOND; DO NOT ALLOW SPILLAGE AND MIGRATION ONTO EXPOSED SURFACES
 - MASKING TAPE: USE MASKING TAPE TO PREVENT THROUGH-PENETRATION FIRESTOP SYSTEMS FROM CONTACTING ADJOINING SURFACES THAT WILL REMAIN EXPOSED ON COMPLETION OF WORK AND THAT WOULD OTHERWISE BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTACT OR BY CLEANING METHODS USED TO REMOVE SKEARS FROM FIRESTOP SYSTEM MATERIALS. REMOVE TAPE AS SOON AS POSSIBLE WITHOUT DISTURBING FIRESTOP SYSTEMS SEAL WITH SUBSTRATES.
- THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATION

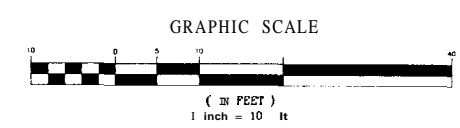
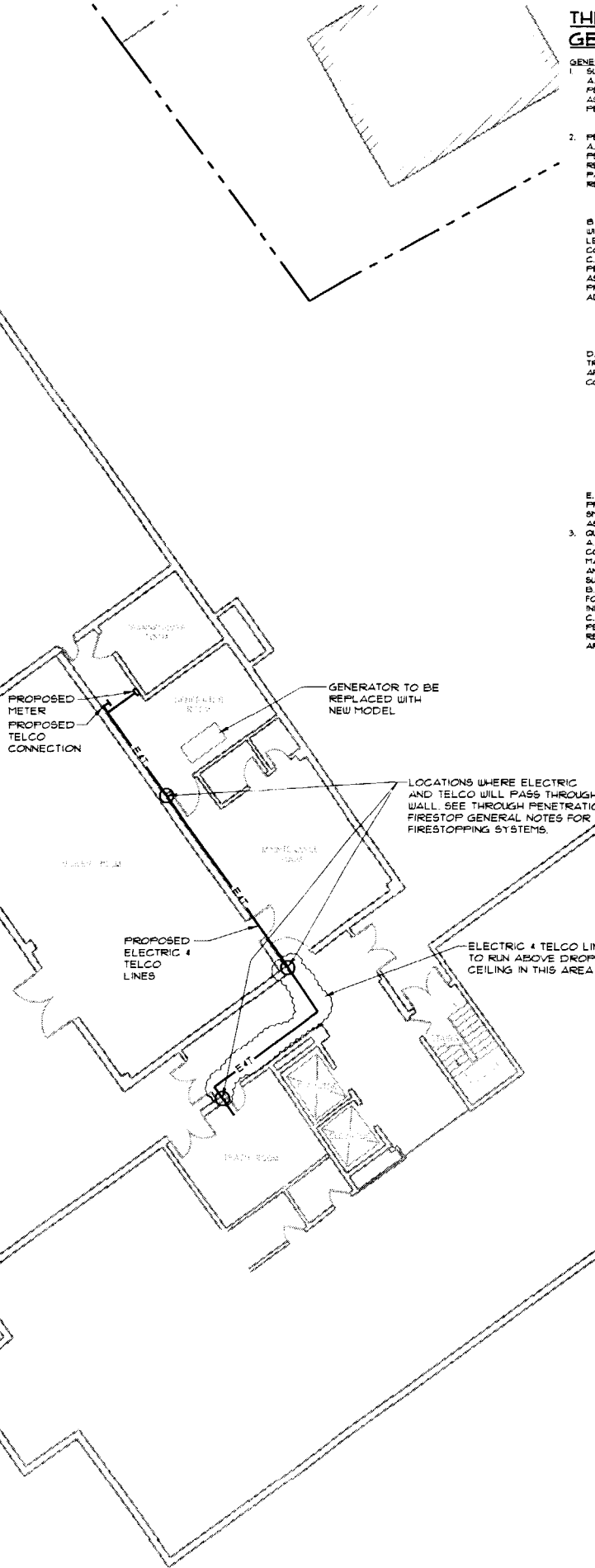
A. GENERAL: INSTALL THROUGH-PENETRATION FIRESTOP SYSTEMS TO COMPLY WITH "PERFORMANCE REQUIREMENTS" ARTICLE AND FIRESTOP SYSTEM MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.

B. INSTALL FORMING/DAMPING BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CIRCROSS SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.

 - AFTER INSTALLING FILL MATERIALS, REMOVE COMPRESSIBLE FORMING MATERIALS AND OTHER ACCESSORIES NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS.
 - INSTALL FILL MATERIALS FOR FIRESTOP SYSTEMS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
 - FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED
 - APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS
 - FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH, UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
- CLEANING AND PROTECTION

A. CLEAN OFF EXCESS FILL MATERIALS ADJACENT TO OPENINGS AS WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS THAT ARE APPROVED IN WRITING BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURERS AND THAT DO NOT DAMAGE MATERIALS IN WHICH OPENINGS OCCUR.

B. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS DURING AND AFTER INSTALLATION THAT ENSURE THROUGH-PENETRATION FIRESTOP SYSTEMS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION. IF DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED THROUGH-PENETRATION FIRESTOP SYSTEMS IMMEDIATELY AND INSTALL NEW MATERIALS TO PRODUCE THROUGH-PENETRATION FIRESTOP SYSTEMS COMPLYING WITH SPECIFIED REQUIREMENTS.



1

REV.	BY	DATE	STATUS
A	DAM	04-19-06	REVISED PER CLIENT COMMENTS
B	DAM	03-28-06	ISSUED FOR CONSTRUCTION

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PROJECT NO	FIELD BOOK	DESIGN	CHKD	DRAWN
05449		DAM	JPS	JLB

1ST FLOOR ELECTRICAL PLAN
OF:
HARBOR TERRACE ROOFTOP
284 DAYFORTH STREET
PORTLAND, MAINE
FOR:
CINGULAR WIRELESS
580 MAIN STREET
BOLTON, MA 01740

DATE	SCALE
03-20-06	1"=10'

SHEET 4 OF 7

CONSTRUCTION NOTES:

1. THE FACILITY IS AN UNOCCUPIED MOBILE RADIO FACILITY.

4. DIMENSIONS SHOULD BE TO FINISH, SAME AS SEE TABLE 6 OF THE PROJECT SPECIFICATIONS. ALL DIMENSIONS TO BE SHOWN TO THE CENTER OF THE MEMBER THEREFORE, NO ADJUSTMENT TO BE MADE FOR THE THICKNESS OF THE MEMBER. THERE ARE NO QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT. THE CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING A CLASSIFICATION FROM THE NEXTEL COMMUNICATIONS AUTHORIZED PROJECT MANAGER OR ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. THE CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

6. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

1. CONTRACTOR SHALL NOTIFY CONSTRUCTION ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

- B. AS A MINIMUM STANDARD ALL WORK PERFORMED AND MATERIAL INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS.

- ORDINANCES, RULES, REGULATIONS AND LAWS, ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL CODES, NATIONAL ELECTRICAL CODE, AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE

3. THE DESIGN SPECIFICATIONS, PERFORMANCE AND LOCATION OF A RADIO EQUIPMENT AND RELATED ELECTRONIC ITEMS WITHIN THE RADIO EQUIPMENT ROOM ARE BY THE RADIO EQUIPMENT VENDOR.

10. THE CONTRACTOR SHALL COORDINATE SITE ACCESS WITH THE FACILITY MANAGER AND/OR OTHER

- II. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED AND FIRE CODE APPROVED MATERIALS AS NOTED ON SHEET 4. *THROU PENETRATION FIRESTOP GENERAL NOTES*.

2. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NO LESS THAN 2-A OR 3-A/BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDOUT AREA DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23

- THE UNIFORM BUILDING CODE REGARDING EARTHQUAKE PROVISIONS FOR PIPING, LIGHT FIXTURES, CEILING GRID INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

14. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUITE JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

5. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, WALLS, ELEVATORS, STAIRWELLS ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION.

17. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF A
DIRTY, OILY, RUBBISH EQUIPMENT REMOVED AND NOT SPECIFIED AS
PERTAINING TO THE PROPERTY OF THE OTHER LEASEE IDENTIFIED IN
B. VENDOR FINAL EQUIPMENT LOCATIONS WITH THE RADIO EQUIPMENT
VENDOR

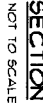
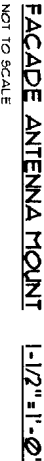
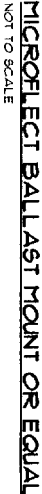
18. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A CLEAN AND SAFE CONDITION. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA CLEAN AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OR ANY NATURE.

- SHALL BE SOLELY RESPONSIBLE AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING CERTAIN MATTERS.

20. REPAIR ALL EXISTING ALL SURFACES DAMAGED DURING

- 21 EXISTING STRUCTURES HAVE BEEN CHECKED FOR EQUIPMENT
LOADING AS NOTED AND PLACED ON THE PLANS. ANY CHANGES OR
CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT
SURFACES.

27. ALL EXTERIOR METAL COMPONENTS TO BE HOT DIPPED GALVANIZED TO MEET THE FOLLOWING REQUIREMENTS:



ALL APPROPRIATE SUPPORT FEATURES AND COVERS ARE TO BE APPLIED TO INTERSECTION PIECES. SEE CABLE TRAY DETAIL ON THIS SHEET FOR INSTALLATION



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OF:
HARBOR TERRACE ROOFTOP
284 DANFORTH STREET
PORTLAND, MAINE
FOR:
CINGULAR WIRELESS
580 MAIN STREET
BOLTON, MA 01740

STRUCTURAL GENERAL NOTES

DESIGN LOADS: International Building Code, IBC 2003 Edition, except as noted
Occupancy Category, Table 1604.5 II Standard

Roof:			
Ground Snow, P_g	59 psf	(used for drifting calculations)	
Flat Roof Snow, P_f	35 psf		
Snow Exposure Factor, C_e	1.0		
Snow Importance Factor, I_s	1.0		
Snow Thermal Factor, C_t	1.0		
Wind Thermal Factor, C_d	1.0		

Floor: Equipment Platform 100 C

Wind: IBC 1603.1.4, ASCE 7.02 Analysis Method

Importance Factor: 1.0

Exposure: C

Seismic Use Group: II

Importance Factor: 1.0

Special Inspection: Acceleration

Short-Term: S_s 0.375 g

Short-Term: S_1 0.20 g

Soils Spec. Class: D

Design Category: Table 1616.3 C

Analysis Procedure: Simplified

STRUCTURAL STEEL:

Structural steel shall be detailed, fabricated, and erected in accordance with AISC Specifications, 1989, and Code of Standard Practice, 2000. Structural steel wide flange beams shall conform to ASTM A992. Columns shall conform to ASTM A572 Grade 50. All angles shall conform to ASTM A36.

Welds shall be in accordance with AISC Specifications, 1989, and Code of Standard Practice, 2000. Welds shall be made by E70 electrodes.

Except as noted, framed beam connections shall be bearing type with $3/4"$ diameter, snug tight, A325 N bolts, detailed in conformance with Part 4, Tables II and III, for D6 thru the allowable uniform loads tabulated in Part 2 of the AISC Manual, 9th Edition. Install bolts in accordance with AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts, 1985.

All beams shall have full depth web stiffeners each side of webs above and below columns.

Welding shall be done by a certified welder in accordance with AISC and AWS specifications and recommendations using E70 electrodes. Where not specifically noted, minimum weld shall be $3/16"$ fillet by length of corner edge.

All steel members exposed to the environment shall be hot dip galvanized, or shall receive a 3 coat 100% Solids Epoxy Paint system, approved by the owner.

SHOP DRAWINGS:

Construction Documents are copyrighted and shall not be copied for use as erection plans or shop details.

The Contractor and his subcontractors shall submit in writing any requests to modify the plans or specifications.

For each modification, the Contractor shall submit two (2) prints of shop and erection drawings to the Structural Engineer for review prior to fabrication. Submit in a timely manner to permit five (5) working days for review.

FIELD VERIFICATION OF EXISTING CONDITIONS:

Contractor shall thoroughly inspect and survey existing structure to verify conditions that affect the work shown on the drawings. Contractor shall report any variations or discrepancies to the Architect before proceeding.

STRUCTURAL SECTION AND BRACING REQUIREMENTS:

The structural drawings illustrate the completed structure with dimensions to their final positions, properly supported and braced. These construction documents contain typical and representative details to assist the contractor.

All proprietary connections shall be installed in accordance with the manufacturer's recommendations.

All work shall be accomplished in a workable manner and in accordance with the applicable code and local ordinances.

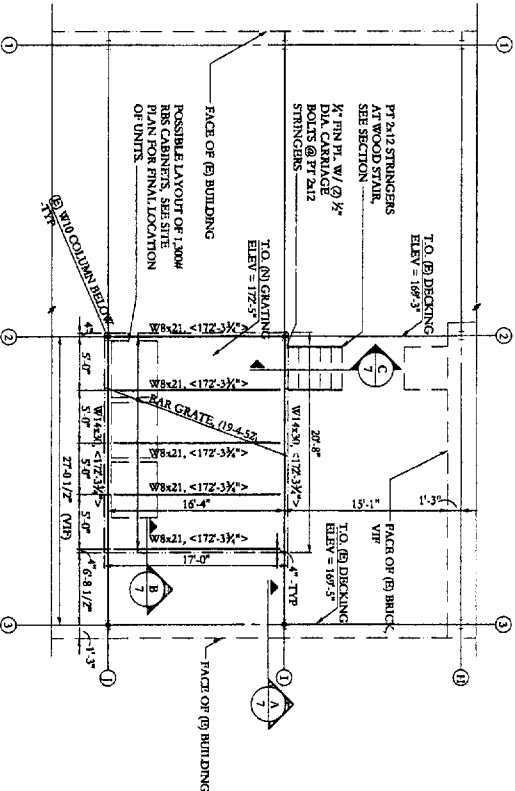
The Contractor shall be responsible for the coordination of all work, including layout and dimension verification, material coordination, shop drawing review, and the work of subcontractors.

Any discrepancies or omissions discovered in the course of the work shall be immediately reported to the engineer for resolution.

Continuation of work without modification of discrepancies reflects the engineer's approval of the work.

The Contractor, in the proper sequence, shall perform all work necessary to achieve the final completed structure, and to protect the structure, workers, and others during construction.

NOTE: BASED ON THE INFORMATION CONTAINED IN THESE DRAWINGS DATED 10-24-1099 THE EXISTING BUILDING ELEMENTS HAVE BEEN ANALYZED WITH THE LOAD OF THE PLATFORM. NEW EQUIPMENT AND INCREASED SNOW DRIFT ADDED. ALL EXISTING ELEMENTS EXPERIENCE A STRESS INCREASE OF LESS THAN 5% ALLOWED PER IBC 2003 SECTION 1601.3.3 ALTERNATIONS.

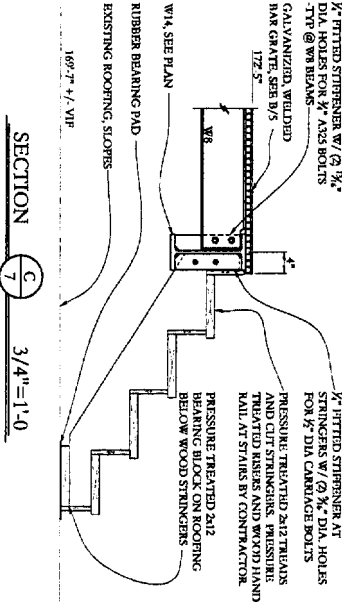


EQUIPMENT PLATFORM FRAMING PLAN

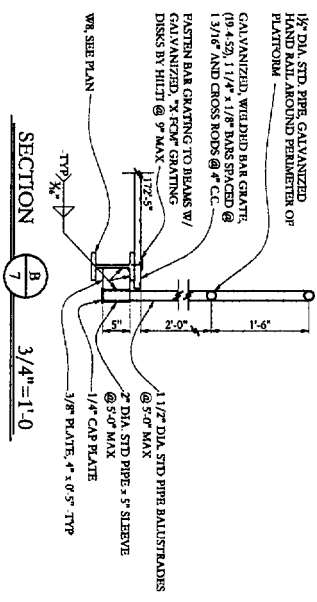


SCALE 1/8"=1'-0"

1. ALL STEEL MEMBERS AND BOLTS TO BE HOT-DIPPED GALVANIZED -TYP, UNO
2. ROOFING REPAIRS ARE TO BE MADE BY CONTRACTOR, APPROVED BY PORTLAND AND HOUSING AUTHORITY -TYP
3. CIRCULAR AT LOCATE UP TO 8" RIG BASE STATIONS AND BATTERIES ON PLATFORM. ATTACH ALL EQUIPMENT TO BAR GRATE PER MANUFACTURERS RECOMMENDATIONS -TYP
4. TOP OF STEEL, INDICATED THUS <XXX>XXX
5. FASTEN BAR GRATING TO BEAMS W/ X-FCK GRATING DISKS BY HILT @ 9" MAX
6. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION
7. VERIFY ALL EXISTING GRID DIMENSIONS IN FIELD
8. (B) INDICATES AN EXISTING MEMBER

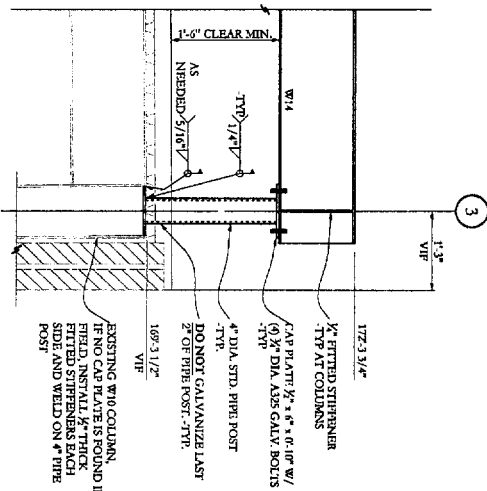


SECTION C 3/4"=1'-0



SECTION B 3/4"=1'-0

NOTE: CONTRACTOR TO REMOVE AND REPAIR METAL DECK INSULATION AND ROOFING AS NEEDED

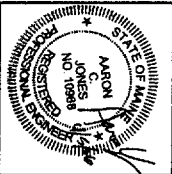


SECTION A 3/4"=1'-0

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REV:	BY:	DATE:	STATUS:
A	ACJ	4-5-06	FOR CONSTRUCTION
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PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
05449				

DETAILS OF:
HARBOR TERRACE ROOFTOP
284 DANFORTH STREET
PORTLAND, MAINE
FOR:
CINCULAR WIRELESS
580 MAIN STREET
BOLTON, MA 01740

DATE	SCALE
2-17-06	VARIES

SHEET 7 OF 7