

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 500 WASHINGTON AVE
 PORTLAND, ME 04103
 LATITUDE: 43° 40' 45.96" N
 LONGITUDE: 70° 25' 28.08" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC#: 866-915-5600

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GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CONTACT & UTILITY INFORMATION

CONTACT: COMPANY: TURNING MILL CONSULTANTS, INC.
 ENGINEERING: STEPHEN SHURTLIFF (508) 888-4383
 SAC: GIN VILANTE (978) 846-4954
 CONSTRUCTION: TOM ALLAIN (603) 305-5641

UTILITIES: POWER: CENTRAL MAINE POWER CO. (800) 564-3181
 TELCO: AT&T (207) 253-5062



SITE NUMBER: ME2978
 SITE NAME: PORTLAN - BAXTER BLVD
 500 WASHINGTON AVE
 PORTLAND, ME 04103
 CUMBERLAND COUNTY

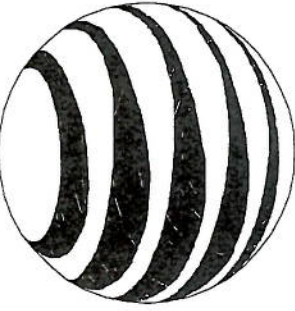


SITE NUMBER: ME2978
 550 COCHITUATE ROAD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	DESIGNED BY: MUS	DRAWN BY: TDC
3	10/10/11	RESUBMITTED FOR CONSTRUCTION		
2	10/05/11	RESUBMITTED FOR REVIEW		
1	09/19/11	CHG SHELLER DESIGN		
0	09/01/11	ISSUED FOR REVIEW		

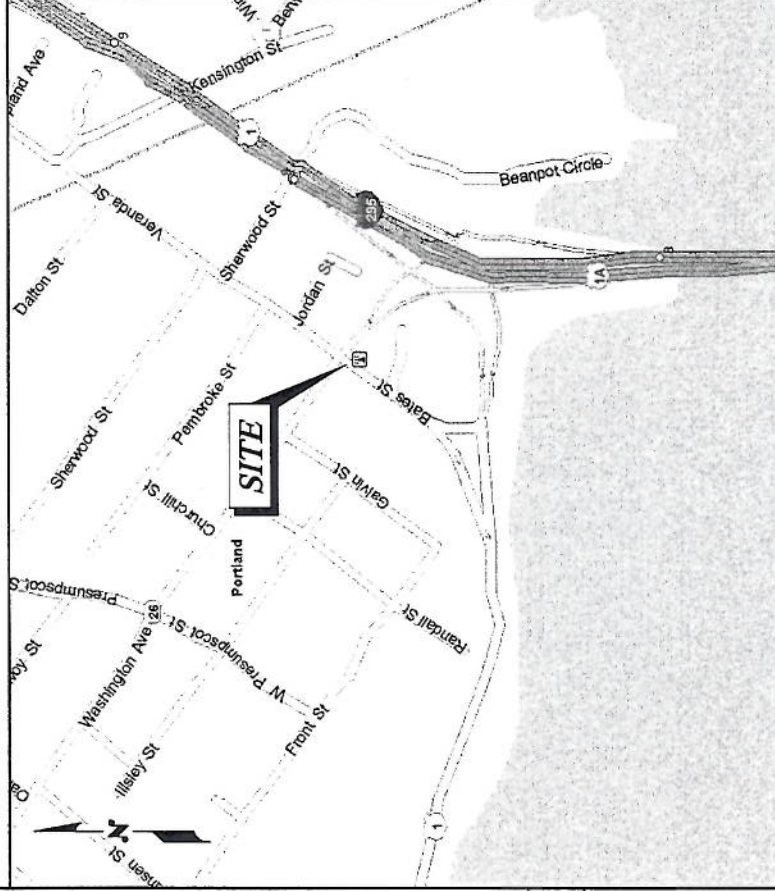
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REV	JOB NUMBER	DRAWING NUMBER
3	SAI 11.43	G-001



SITE NUMBER: ME2978
SITE NAME: PORTLAND BAXTER BLVD

VICINITY MAP



DIRECTIONS: FROM HQ DEPART DEPART 22 KEEWAYDIN DR, SALEM, NH 03079 ON KEEWAYDIN DR, TURN RIGHT ONTO PELHAM RD, THEN IMMEDIATELY TURN LEFT ONTO RAMP, MERGE ONTO I-93 [ALAN B SHEPARD JR HWY], ENTERING MASSACHUSETTS, AT EXIT 48, TURN RIGHT ONTO RAMP, AT EXIT 1A, TAKE RAMP (LEFT) ONTO SR-213, AT EXIT 5A, TAKE RAMP (LEFT) ONTO I-495, MERGE ONTO I-95, ENTERING NEW HAMPSHIRE, *TOLL ROAD* STAY ON I-95 [BLUE STAR MEMORIAL HWY], AT EXIT 3, STAY ON I-95 [BLUE STAR MEMORIAL HWY], ENTERING MAINE, *TOLL ROAD* STAY ON I-95 [GOLD STAR MEMORIAL HWY], AT EXIT 44, TAKE RAMP (RIGHT) ONTO I-295, AT EXIT 8, TAKE RAMP (RIGHT) ONTO SR-26 [WASHINGTON AVE], ARRIVE 500 WASHINGTON AVE, PORTLAND, ME 04103.

APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARD NOTES, SYMBOLS AND DETAILS (SEE DRAWING INDEX FOR STANDARD NOTES AND DETAILS INCLUDED WITH TYPICAL DRAWING PACKAGE). CONTRACTOR WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 MAINE BUILDING CODE (IBC 2009).

ELECTRICAL CODE:
 NATIONAL ELECTRICAL CODE (NEC 2008)
 MAINE ELECTRICAL CODE (NEC 2002 NFPA #70)

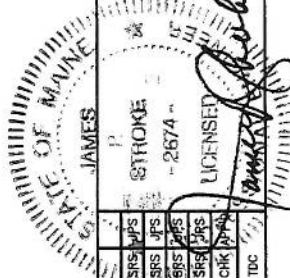
CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION.
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES.
 (TIA) 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERING (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.

TELCORDIA, GR-1503 COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

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.

As-BUILTS
 EAST COAST COMM.
 10/6/12
 [Signature]



GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR MANAGEMENT - SAI
CONTRACTOR UTILITY - CONTRACTOR (CONSTRUCTION)
CONTRACTOR EQUIPMENT - ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO BECOME FAMILIAR 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 PROJECT MANAGEMENT.
- ALL MATERIALS DELIVERED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND PROCEDURES TO THE LOCAL JURISDICTION WITH ALL LADS, 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 SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS OTHERWISE NOTED, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR 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 CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PROJECT MANAGEMENT.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1, CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELLIO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR 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.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- THE CONTRACTOR SHALL SUPERSEDE AND DRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 24782-000-34P5-4002-0002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES".
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY PROJECT MANAGEMENT OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING OPERATION. ALL CONSTRUCTION WORK 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 TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SINKS, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PILES AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
 - FALL PROTECTION
 - CONFINED SPACE
 - ELECTRICAL SAFETY
 - TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING IMACTIVE SINKS, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE AT&T SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM TRANSMISSION EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE SOIL COMPACTION NOTES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
- EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 308, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301 CODE REQUIREMENTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC, UNLESS NOTED OTHERWISE (UNO). SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE SET ABOVE FINISHED GRADE 1 1/2 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 AND LARGER 2 IN.
#5 AND SMALLER & WWF 1 1/2 IN.
SLAB AND WALL 3/4 IN.
BEAMS AND COLUMNS 1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL. WHEN USING PROTECTIVE COATING ON CONCRETE REBAR, THE CONTRACTOR SHALL FOLLOW THE COATING CODES. STEEL TO BE FURNISHED IN ORDER TO PROVIDE PROTECTIVE COATING SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY MANUFACTURER OR APPROVED EQUAL. CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (OR 1905.62.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
 - RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIER'S PLANT.
 - CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.FOR GREATER THAN 50 CUBIC YARDS THE CONTRACTOR SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLAN.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS FLOURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM GRADE 50 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
 - 1 09/19/11 CHG SHELTER DESIGN
 - 0 08/07/11 ISSUED FOR REVIEW
- COMPACTED SUB BASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, PROTECT ALL SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPB 30/18A) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY ROLLER COMPACTOR OR JUMPING JACK COMPACTOR.
- ### CONSTRUCTION NOTES:
- FIELD VERIFICATION: CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNA(S) TO BE REPLACED.
 - COORDINATION OF WORK: CONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH PROJECT MANAGEMENT.
 - CABLE LADDER BACK: CONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER BACK, CABLE TRAY AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW EQUIPMENT LOCATION(S).

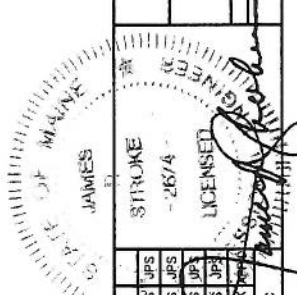
ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONTRACTOR SHALL VERIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW EQUIPMENT. CONTRACTOR SHALL SUBMIT MODIFICATIONS TO PROJECT MANAGEMENT FOR APPROVAL.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

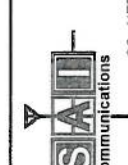
- ALL NEW PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE EQUIPPED WITH UL LISTED FIRESTOP SYSTEM WITH RATING EQUAL TO, OR GREATER THAN, THAT OF ASSEMBLY BEING PENETRATED. USE OF EXISTING THROUGH PENETRATIONS FOR ROUTING OF WIRING AND/OR CABLING SHALL BE PROHIBITED. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE ESTABLISHED AFTER PULLING OF WIRE/CABLE. SPARE PENETRATIONS SHALL BE EQUIPPED WITH RE-ENTRANCE UL LISTED FIRESTOP DEVICE (IE. INTUMESCENT PLUG OR SIMILAR APPARATUS).
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELLCO/IDA.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELLCO/IDA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STILE CABLE TRAY RUNG.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (IE. HOT/S), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED OR ALPHABETICAL TAGS (CU BRAND, 1/2 INCH PLASTIC ELECTRICAL TAGS WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM TO NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT 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. PANELBOARD AND CIRCUIT ID#).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOOD PLASTIC LABELS.
- ALL THE WIRAS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), BODY, OIL RESISTANT THAN OR THIN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THAN OR THIN-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, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTORS, TYPE TC CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THAN OR THIN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION, WITH OUTER JACKET, LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGES) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW TYPE FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAM) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PAINTOUT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE PROJECT MANAGEMENT BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

- 10/10/11 REISSUED FOR CONSTRUCTION
 - 10/05/11 REISSUED FOR REVIEW
 - 09/19/11 CHG SHELTER DESIGN
 - 08/07/11 ISSUED FOR REVIEW
- | NO. | DATE | REVISIONS | BY | CHK'D BY | |
|-----|----------|---------------------------|-----|----------|-----|
| 3 | 10/10/11 | REISSUED FOR CONSTRUCTION | TDC | SRS | JPS |
| 2 | 10/05/11 | REISSUED FOR REVIEW | TDC | SRS | JPS |
| 1 | 09/19/11 | CHG SHELTER DESIGN | TDC | SRS | JPS |
| 0 | 08/07/11 | ISSUED FOR REVIEW | TDC | SRS | JPS |
- DESIGNED BY: MJS DRAWN BY: TDC SCALE: NONE
- AT&T CONSULTANTS, INC.
550 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY
- SAI 11.43 G-002
- AT&T MOBILITY
FRAMINGHAM, MA 01701
- GENERAL NOTES
- REV DRAWING NUMBER
- SAI 11.43 G-002

A. A. A.
10/6/12

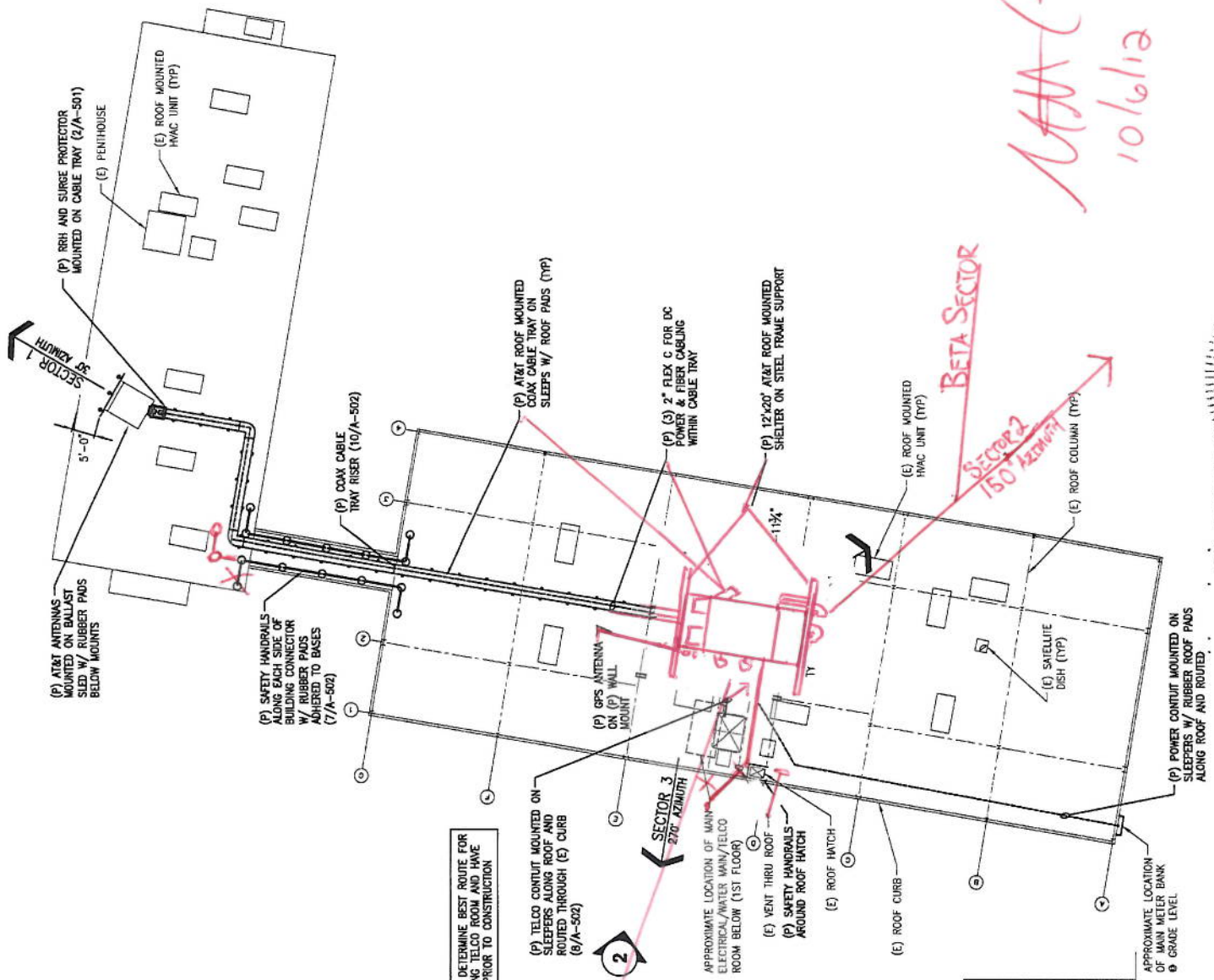
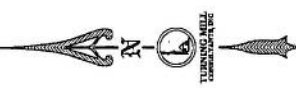


SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
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SALEM, NH 03079



AM-CL
10/6/12

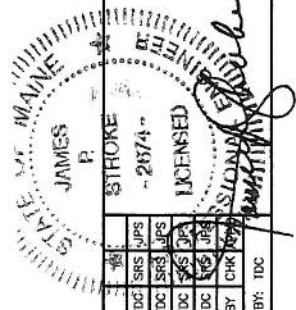
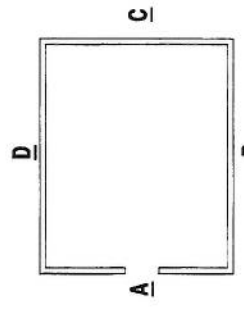
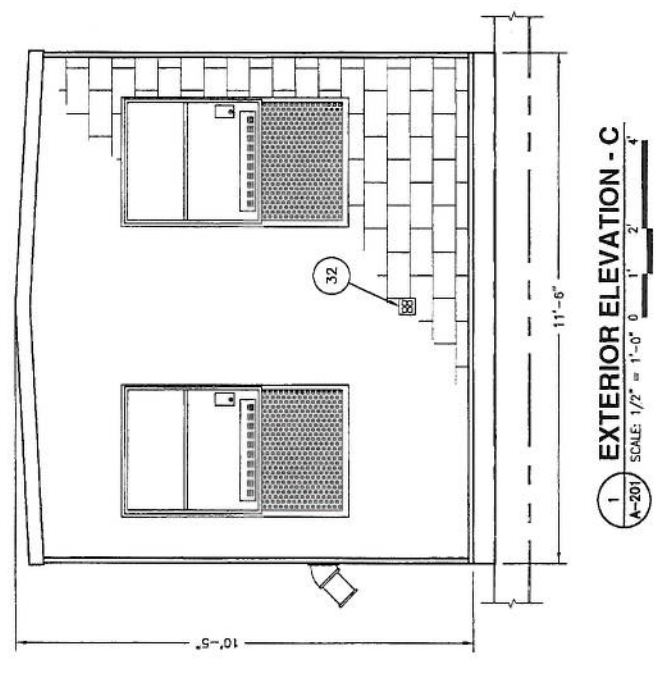
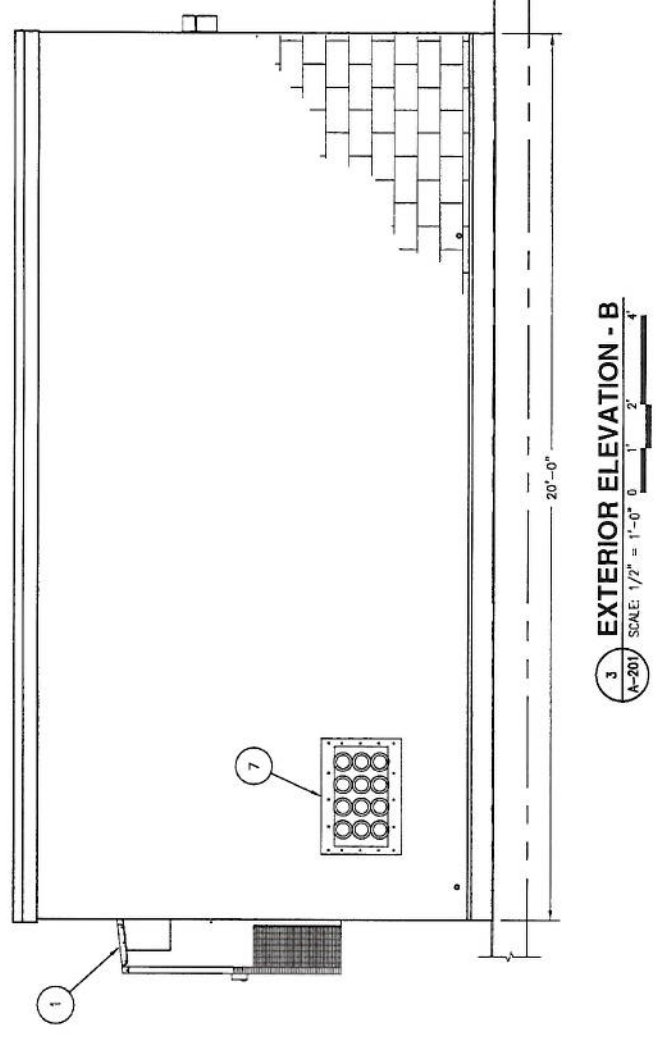
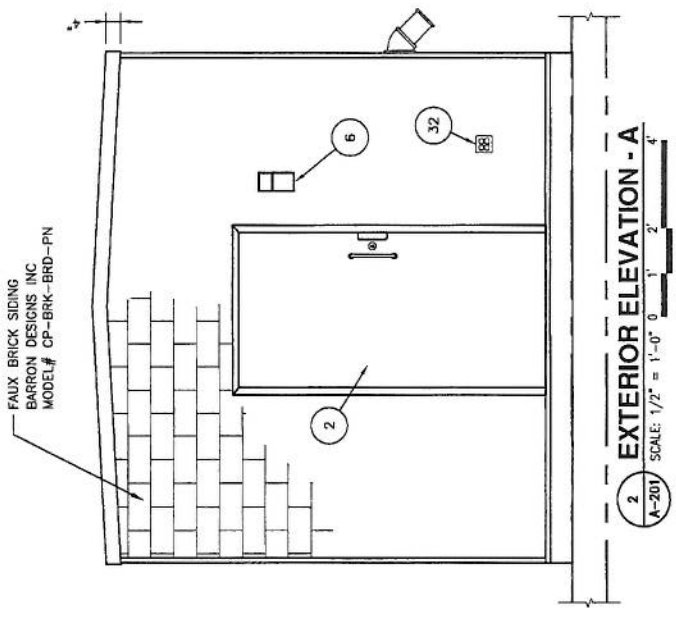
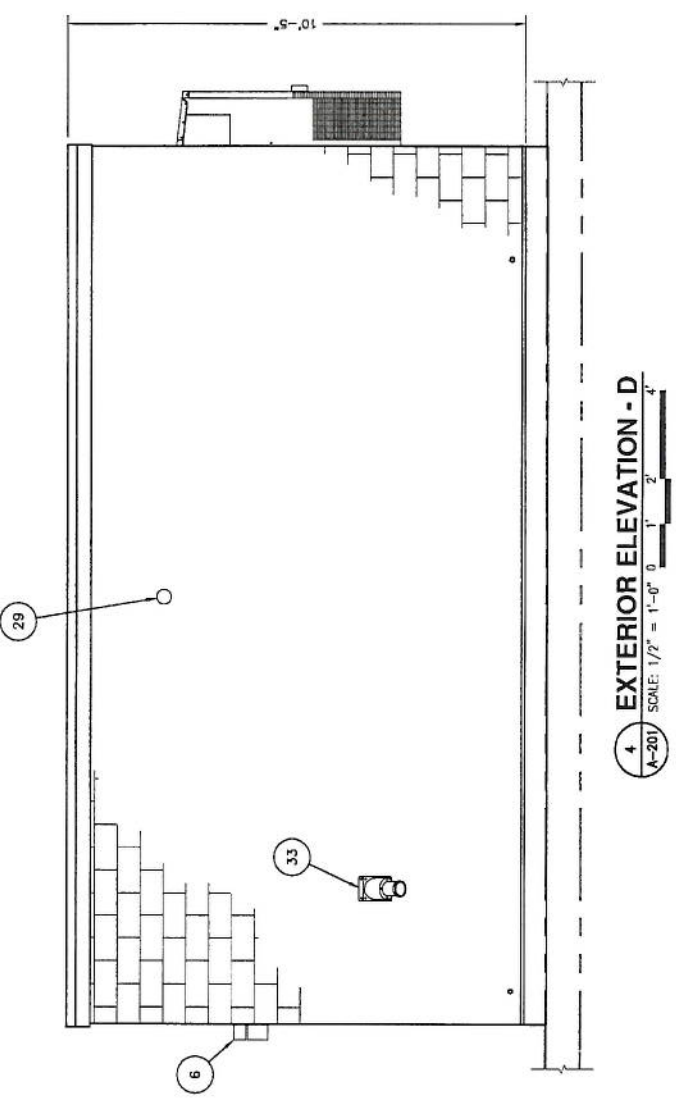
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0	08/01/11	ISSUED FOR REVIEW	DCS SRS	JPS	
NO.	DATE	REVISIONS	BY	CHK	APP
SCALE: AS INDICATED			DESIGNED BY: MAS	DRAWN BY: TDC	
SITE NUMBER: ME2978			AT&T MOBILITY		
SITE NAME: PORTLAN - BAXTER BLVD			FRAMINGHAM, MA 01701		
500 WASHINGTON AVE			ROOF PLAN AND ELEVATION		
PORTLAND, ME 04103			JOB NUMBER		
CUMBERLAND COUNTY			DRAWING NUMBER		
			SAI 11.43		
			A-101		
			REV		
			3		

550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

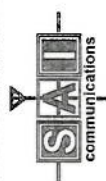
22 KEEWAYDIN DRIVE
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NOTE:
REFER TO DRAWING A-301
FOR KEYED BILL OF MATERIALS



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SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY



550 COCHITTUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

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2	10/05/11	RESUBMITTED FOR REVIEW	TDC	SRS	JPS	
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS	
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JPS	

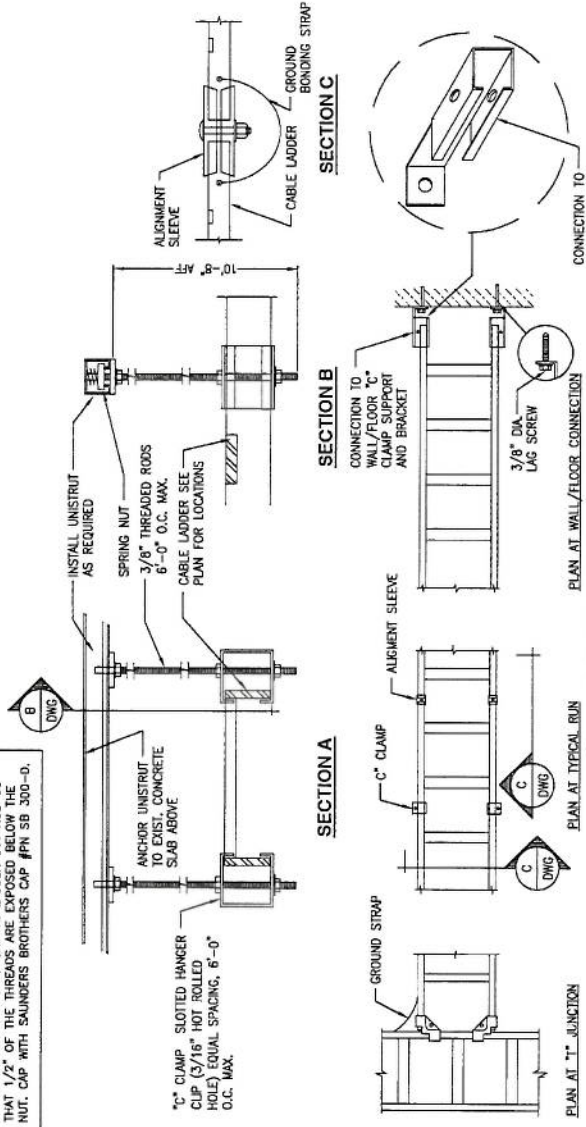
AT&T MOBILITY
FRAMINGHAM, MA 01701
EQUIPMENT SHELTER
EXTERIOR ELEVATIONS

JOB NUMBER: SAI 11.43
DRAWING NUMBER: A-201

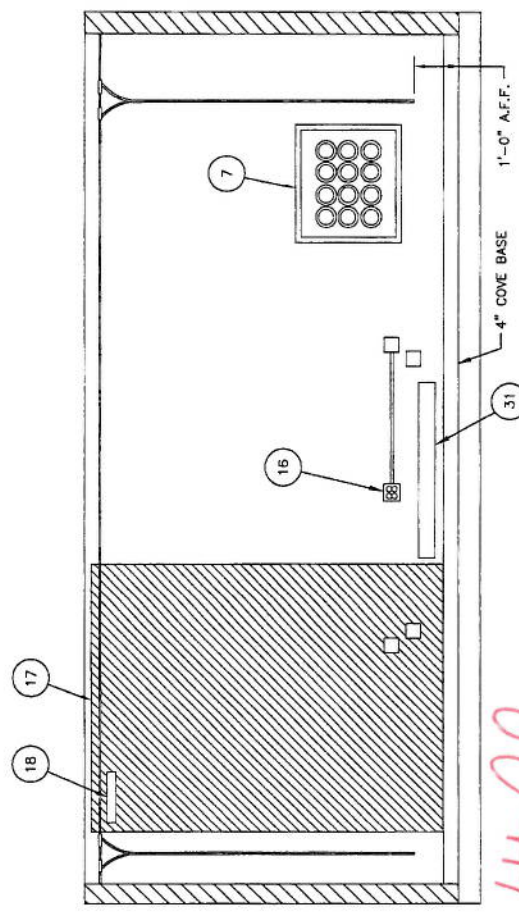
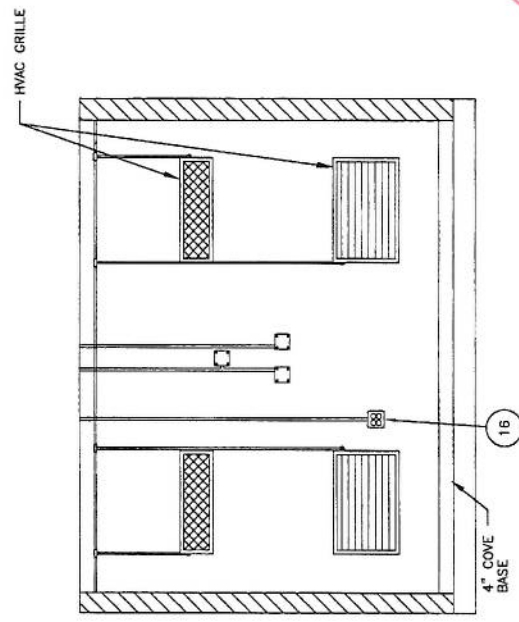
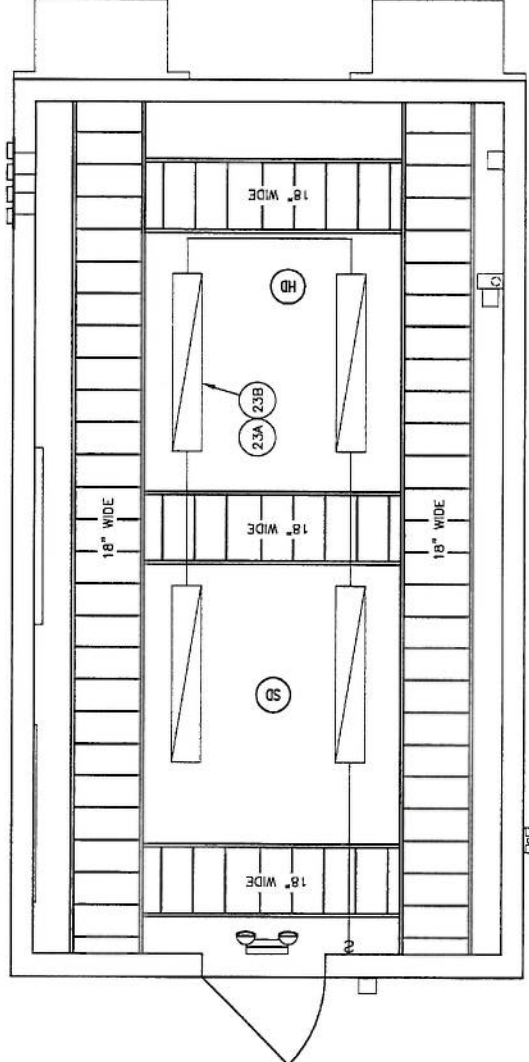
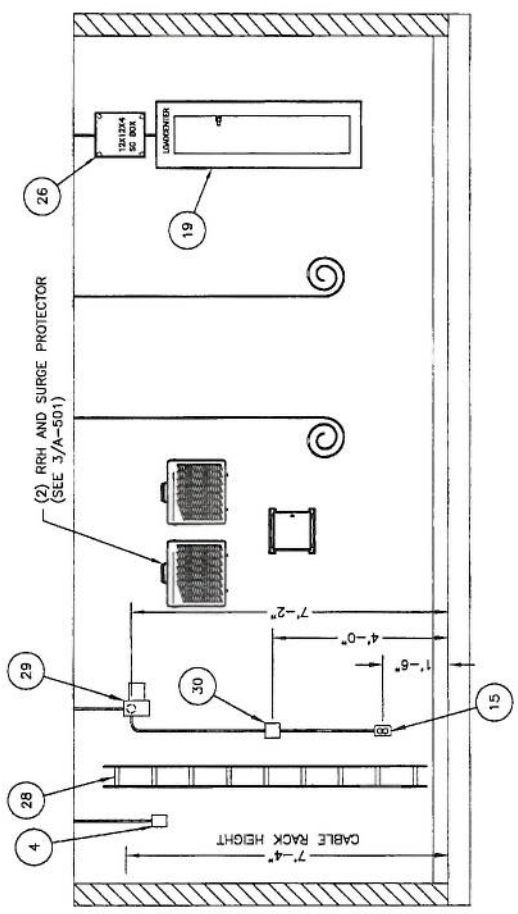
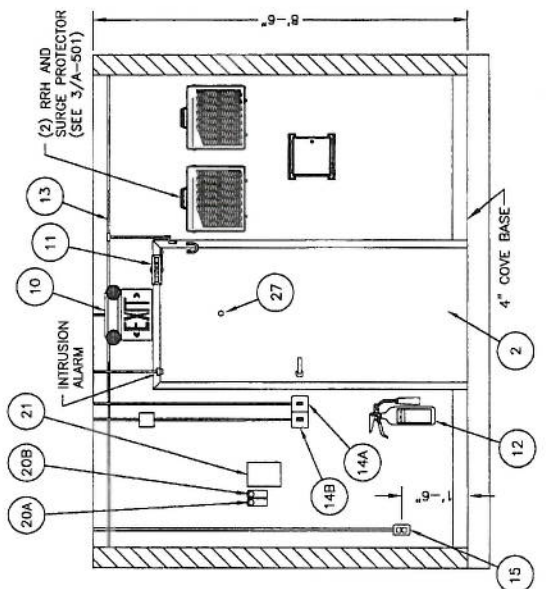
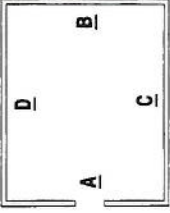
REV 3

CABLE LADDER GENERAL NOTES

1. ALL CUT ENDS OF CABLE LADDER TO BE FILED SMOOTH AND PAINTED WITH MATCHING COLOR.
2. BOTTOM OF CABLE LADDER TO BE 6"-6" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.
3. CORNER BRACKETS TO BE ON THE INSIDE, UNLESS LADDER RUNS INTERFERE, THEN CORNER BRACKETS MAY BE ON THE OUTSIDE.
4. CABLE LADDER RUNS TO BE ON TOP OF HORIZONTAL LADDER AND AWAY FROM WALL ON VERTICAL LADDERS.
5. NUTS TO BE ON BOTTOM OF ASSEMBLY, OR TOWARDS WALL.
6. 3/8" THREADED RODS, SUPPORTING CABLE LADDER, SPACED 4'-0" APART, MINIMUM.
7. AFTER FINAL LEVELING OF CABLE LADDER CUT ROD SO THAT CUT OF THE THREADED RODS ARE EXPOSED BELOW THE NUT. CAP WITH SAUNDERS BROTHERS CAP #PH 3B 300-0.



NOTE:
REFER TO DRAWING A-301
FOR KEVED BILL OF MATERIALS



Handwritten notes:
A. At 10/10/11
10/6/12

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SALEM, NH 03079

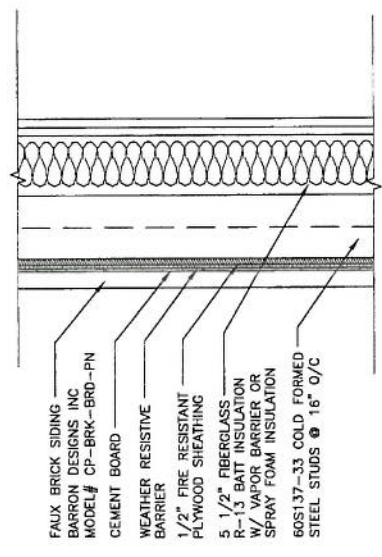
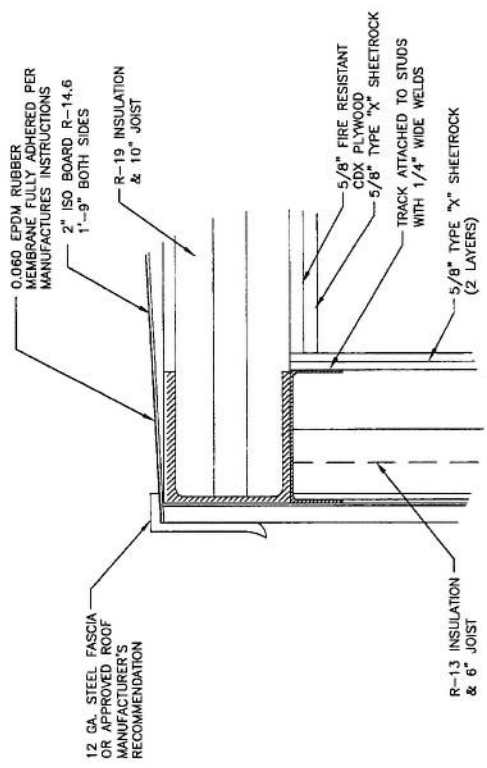
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SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

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550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

3	10/10/11	ISSUED FOR CONSTRUCTION	TDC	SRS	JFS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS	JFS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JFS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JFS
NO.	DATE	REVISIONS	BY	CHK	APP
DESIGNED BY: MAS			DRAWN BY: TDC		
SCALE: AS INDICATED			JOB NUMBER: SAI 11.43		
DRAWING NUMBER: A-202			DRAWING NUMBER: A-202		
INTERIOR ELEVATIONS AND DETAILS			DRAWING NUMBER: A-202		
EQUIPMENT SHELTER			DRAWING NUMBER: A-202		
FRAMINGHAM, MA 01701			DRAWING NUMBER: A-202		

BILL OF MATERIALS

ITEM	QTY.	MODEL NO.	DESCRIPTION
1	2	AMP-60ACA-05C	MARVAR COMPACT II 55,000 BTU HVAC UNIT WITH 5 KW HEATSTRIP & ECONOMIZER
2	1	VC1670N81C	3'-6" X 7'-0", 18 GA. INSULATED, PRIMED AND PAINTED STEEL DOOR
3	1	83T-8	PULL HANDLE (INSIDE & OUT) WITH BEST DEADBOLT AND BLUE CORE
4	1	HD-21-1-BR	MACURCO HYDROGEN GAS DETECTOR
5	1	MBS 6016	ANTI-PICK GUARD
6	1	-	EXTERIOR-IMP LIGHT FIXTURE 70W
7	1	B1333	MICROFLECT 18 PORT CABLE ENTRY PANEL
8A	1	-	EXTERIOR 4" X 23" X 1/4" GROUND BAR, TINNED COPPER
8B	1	-	INTERIOR 4" X 23" X 1/4" GROUND BAR, TINNED COPPER
9	1	GFR5342-2	GE NEMA LINE-5 120V 20A EXTERIOR GFI RECEPTACLE
10	1	CCX31RWH0H	EMERGENCY LIGHT & EXIT LIGHT COMBO
11	1	93056C	NORTON DOOR CLOSER
12	1	PRO10CDM	KIDDE 10LB CO2 FIRE EXTINGUISHER
13	-	MBS 6004	HALO GROUND WITH #2 GREEN INSULATED COPPER WIRE W/1 UNDER GROUND BARS (MOR)
14A	1	FF12H	(MOR) 12 HOUR TIMER FOR INTERIOR LIGHTS
14B	1	FF2H	(MOR) 2 HOUR TIMER FOR EXTERIOR LIGHT
15	3	5252	(MOR) 120 VOLT 20 AMP DUPLEX RECEPTACLE
16	3	5252	(MOR) 120 VOLT 20 AMP QUAD RECEPTACLE
17	1	-	6' X 8' X 3/4" PLYWOOD, TELCO, FIRE TREATED, PAINTED BLACK
18	1	GH-7008	TELCO GROUND BAR
19	1	004876	200 AMP GENERAC INTEGRATED LOAD CENTER
20A	1	2E-206	DAYTON HIGH TEMP CONTROL
20B	1	2E-206	DAYTON LOW TEMP CONTROL
21	1	CSTAT3	COMSTAT 3 LEAD LAG THERMOSTAT
22A	2	7000 SERIES	GENTEX SMOKE DETECTOR
22B	1	A1282B	HEAT DETECTOR
23A	4	C 2 32 120 GEB	LITHONIA LIGHTS W/WRAP AROUND LENS
23B	8	F032/730	SILVANIA BULBS
24	1	-	4" X 4" X 4" WIREWAY
25	1	-	6" X 6" X 4" WIREWAY
26	1	-	12" X 12" HOFFMAN BOX FOR ALARMS
27	1	-	WIDE ANGLE VIEWER
28	-	-	18" LADDER RACK W/HARDWARE
29	1	4C440	DAYTON SHADED POLE EXHAUST BLOWER
30	1	1101	TORK BLOWER CONTROL TIMER
31	1	-	HEATER, BASEBOARD, 2000W, 240V, 94", HYBRONIC
32	2	-	120 VOLT 20 AMP GFCI QUAD OUTDOOR RECEPTACLE
33	1	-	GENERATOR RECEPTACLE



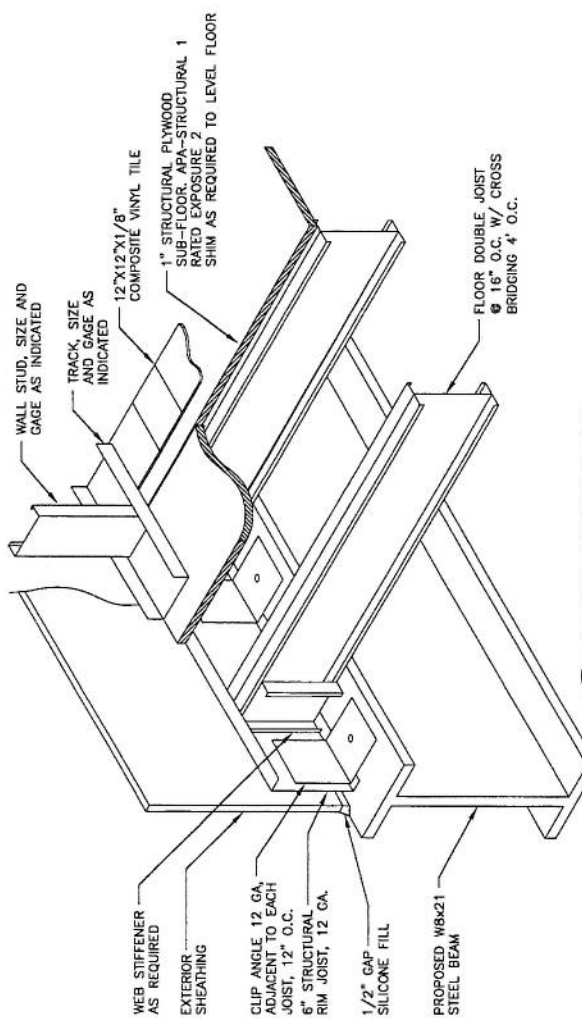
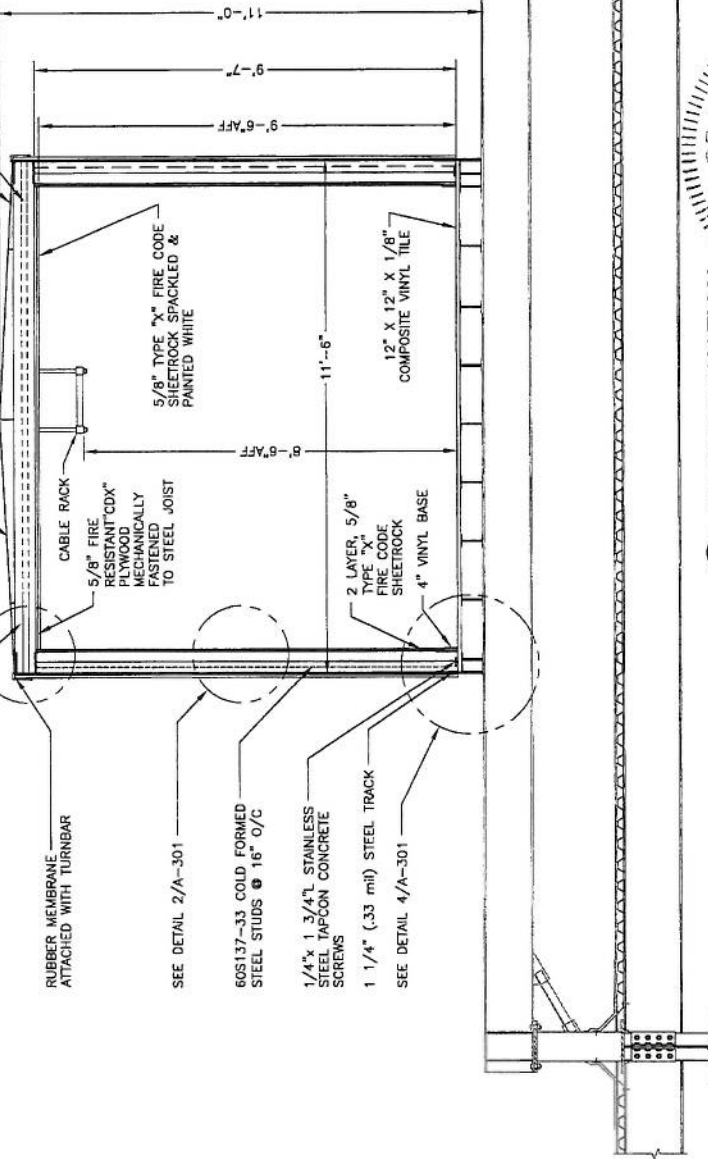
3 ROOF FRAMING DETAIL
SCALE: NONE

2 WALL FRAMING DETAIL
SCALE: NONE

INSULATE TO FILL ALL VOIDS USING 6" R-19 FIBERGLASS BATT INSULATION OR SPRAY FOAM INSULATION
SEE DETAIL 3/A-301

FASTEN 60S162-33 SLOPED RAFTERS TO EACH CEILING JOIST W/2 ROWS OF #10 SCREWS @ 12" O/C.

0.060 EPDM RUBBER MEMBRANE FULLY ADHERED PER MANUFACTURER'S INSTRUCTIONS
1000S250-43 COLD FORMED STEEL CEILING JOISTS @ 16" O/C



4 FLOORING DETAIL
SCALE: NONE

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

NOTES:
1) ALL STEEL TO BE FULLY PRIMED
2) ALL SEAMS BETWEEN STEEL SHEETS TO BE FULLY CAULKED
3) WELD ELECTRODES: E70 IN ACCORDANCE WITH AWS.

Handwritten: A.A. O.R. 10/6/12

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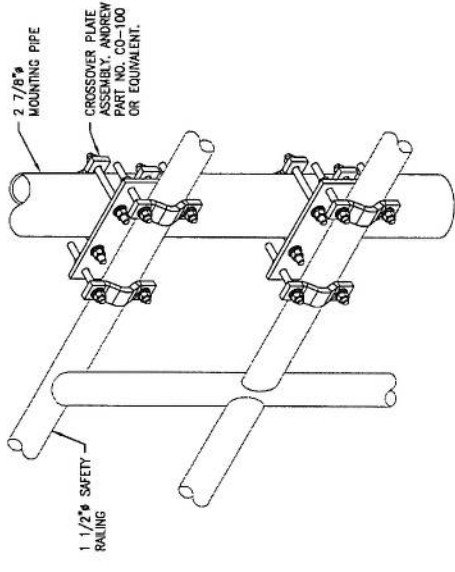
SITE NUMBER: ME2978
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CUMBERLAND COUNTY

at&t Mobility
550 COCHITATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

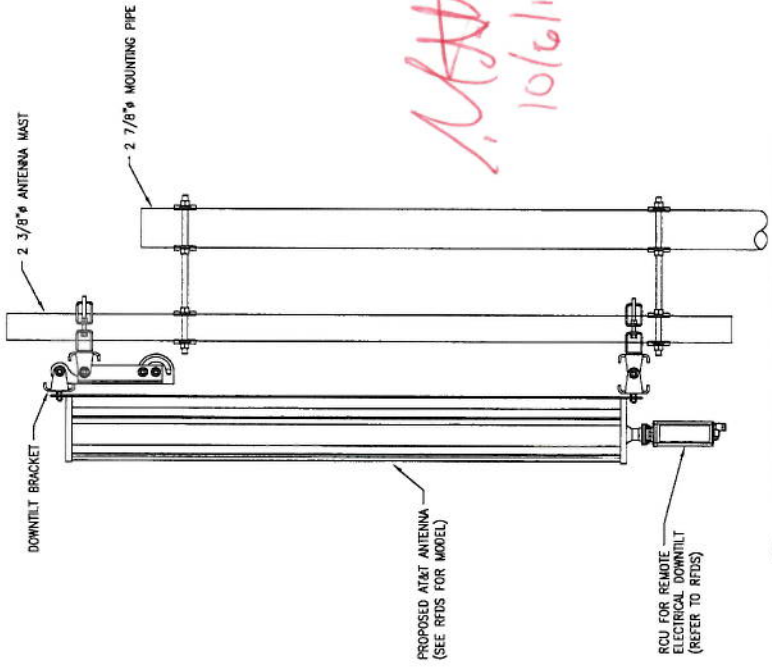
STATE OF MAINE
JAMES P. STROKE
REGISTERED PROFESSIONAL ENGINEER
LICENSED
2674
Professional Seal

AT&T MOBILITY FRAMINGHAM, MA 01701
EQUIPMENT SHELTER SECTION AND DETAILS
JOB NUMBER: SAI 11.43
DRAWING NUMBER: A-301
REV: 3

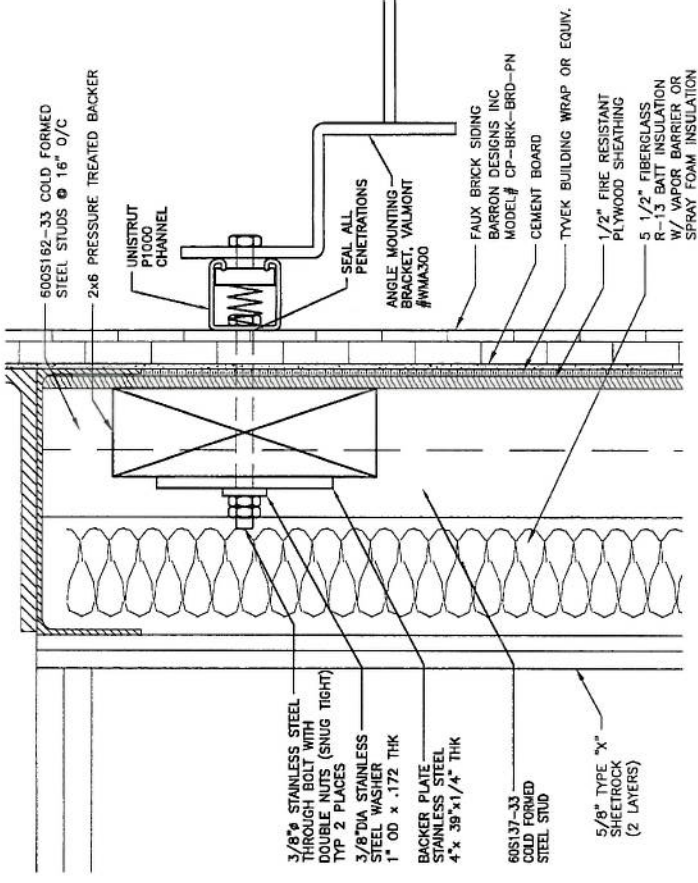
NO.	DATE	REVISIONS	BY	CHK APP'D
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2	10/05/11	RESUBMITTED FOR REVIEW	TDC	SBS JPS
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DESIGNED BY: MJS				
DRAWN BY: TDC				



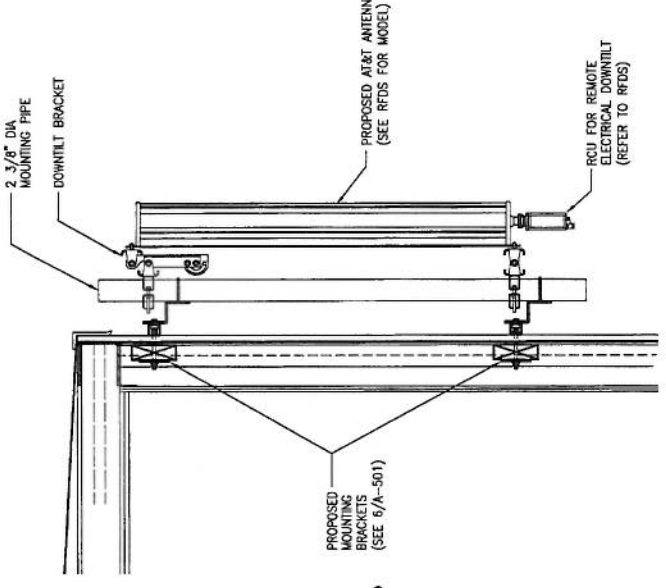
8 ANTENNA BRACKET MOUNTING DETAIL
SCALE: NONE



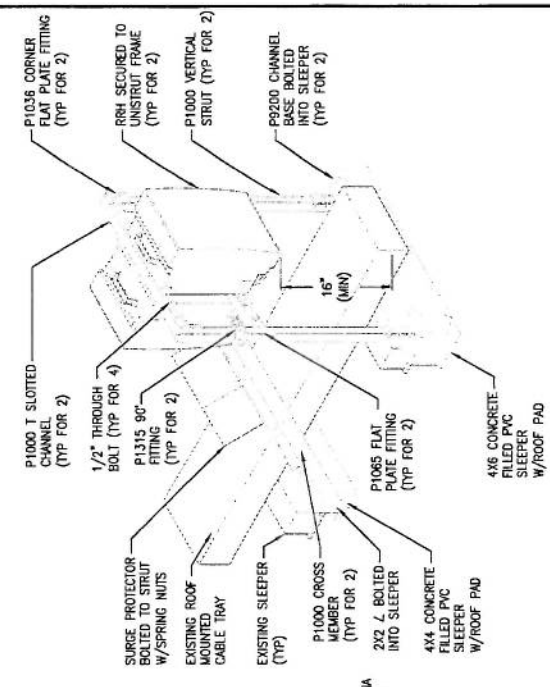
7 ANTENNA MOUNTING DETAIL
SCALE: NONE



6 ANTENNA WALL MOUNTING DETAIL
SCALE: 6" = 1'-0"

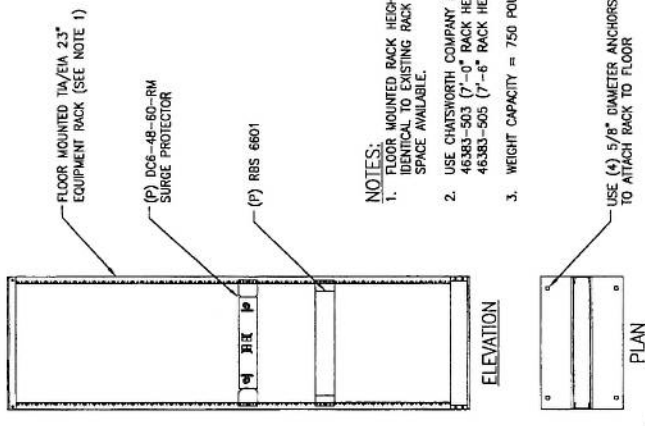


4 ANTENNA WALL MOUNTING DETAIL
SCALE: 1" = 1'-0"



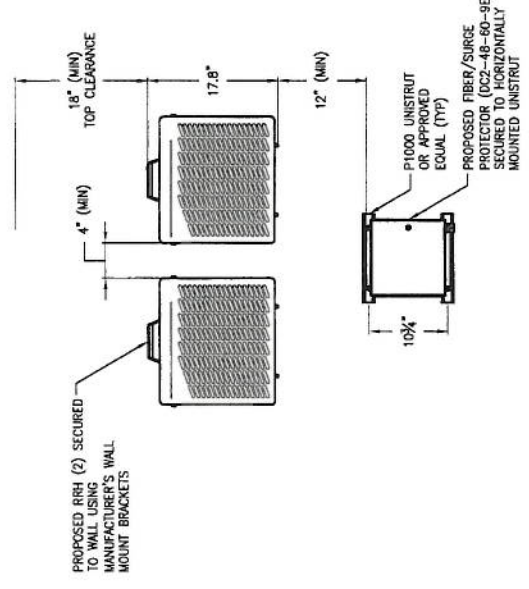
- NOTES:
1. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
 2. ALL EQUIPMENT TO BE GROUNDING AND MADE WEATHER-TIGHT PER MANUFACTURER'S RECOMMENDATIONS.
 3. ATTACHMENT TO CONCRETE FILLED SLEEPERS SHALL BE AS RECOMMENDED BY MANUFACTURER REGARDING EMBEDMENT DEPTH, METHOD AND BOLT TYPE.

2 RRH AND SURGE PROTECTOR MOUNTING DETAIL
SCALE: 1" = 1'-0"



- NOTES:
1. FLOOR MOUNTED RACK HEIGHT SHALL BE IDENTICAL TO EXISTING RACK HEIGHT IF SPACE AVAILABLE.
 2. USE CHUTEWORTH COMPANY PART NUMBERS: 48383-503 (7'-0" RACK HEIGHT) 48383-505 (7'-6" RACK HEIGHT)
 3. WEIGHT CAPACITY = 750 POUNDS

3 23" FLOOR MOUNTED RACK
SCALE: 3/4" = 1'-0"



- NOTES:
1. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
 2. ALL EQUIPMENT TO BE GROUNDING AND MADE WEATHER-TIGHT PER MANUFACTURER'S RECOMMENDATIONS.
 3. ATTACHMENT TO WALL SHALL BE AS RECOMMENDED BY MANUFACTURER REGARDING EMBEDMENT DEPTH, METHOD AND BOLT TYPE.

3 RRH AND SURGE PROTECTOR MOUNTING
SCALE: 1" = 1'-0"

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DESIGNED BY:	MUS
DRAWN BY:	TDC
SCALE:	AS INDICATED

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SITE NUMBER: ME2978
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CUMBERLAND COUNTY

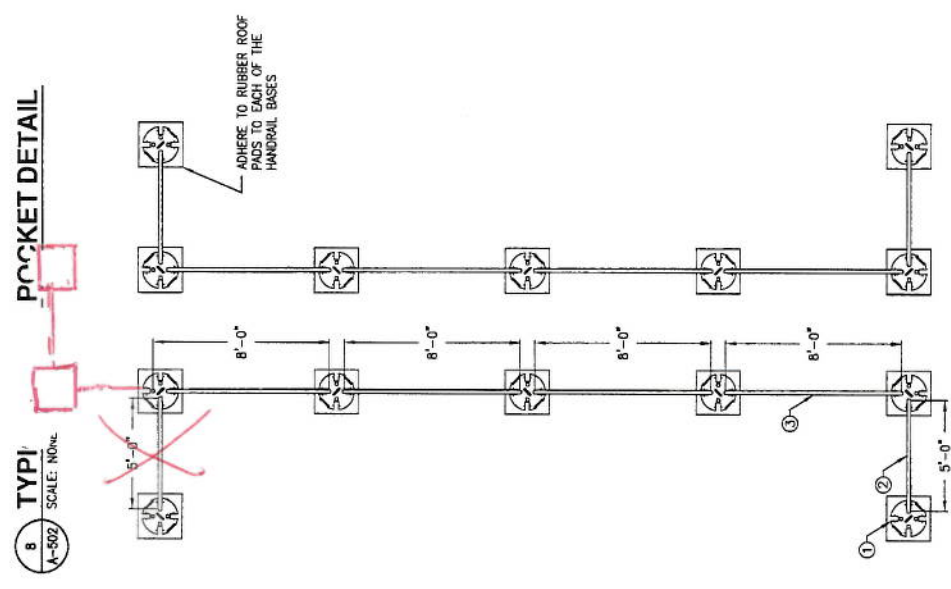
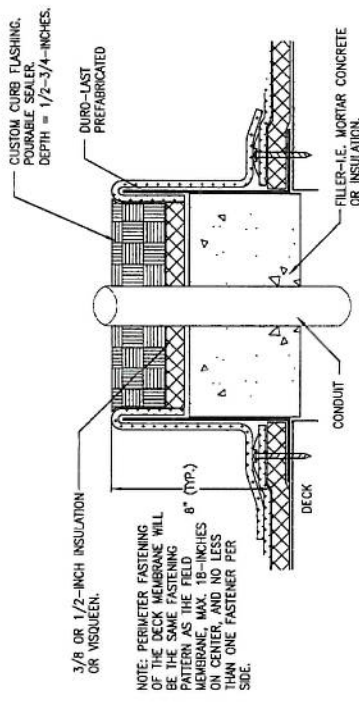
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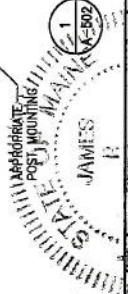
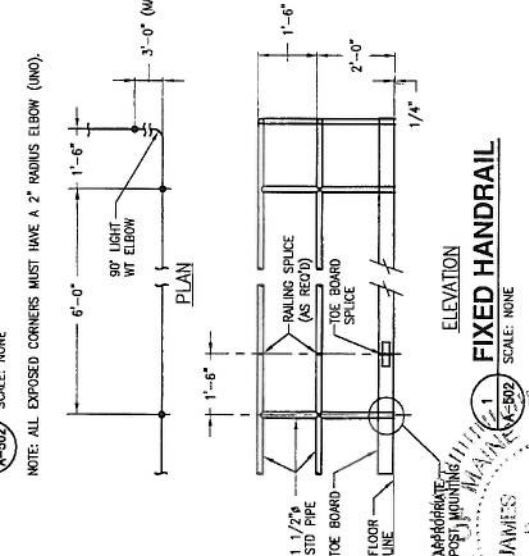
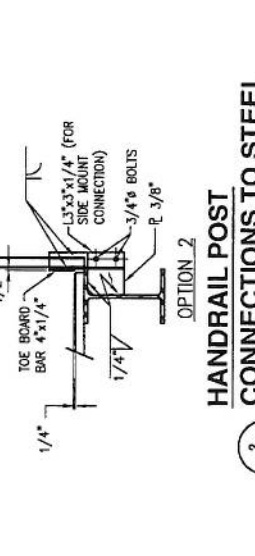
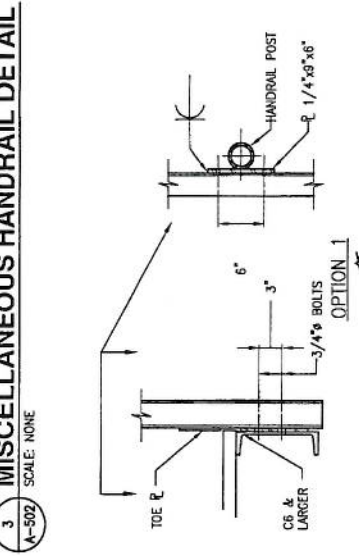
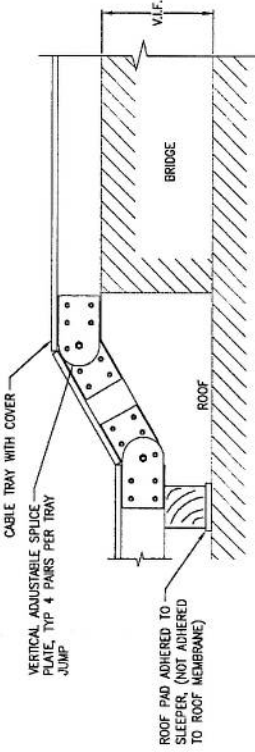
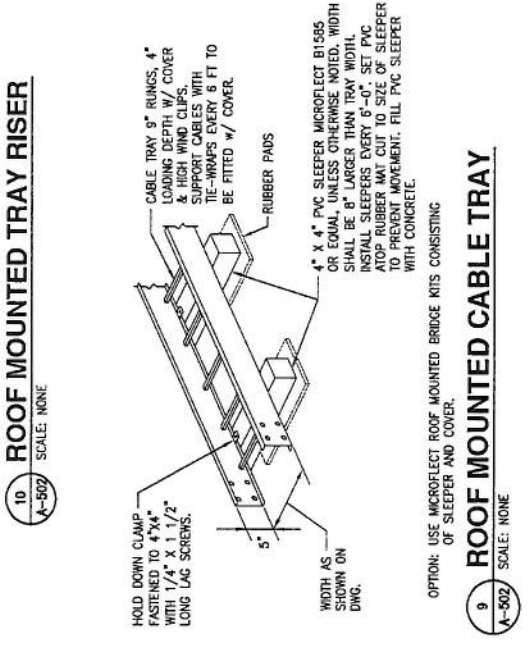
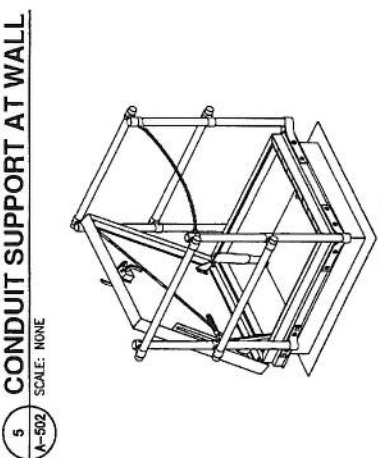
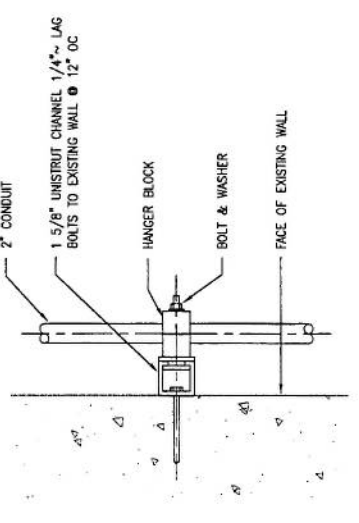
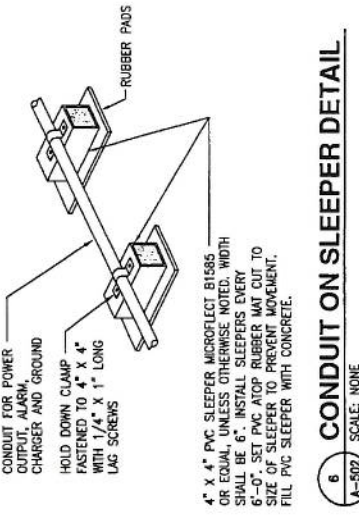
AT&T MOBILITY
FRAMINGHAM, MA 01701
CONSTRUCTION DETAILS - SHEET 1 OF 2
JOB NUMBER: SA 11.43
DRAWING NUMBER: A-501
REV: 3

Handwritten: A. A. A. A. 10/6/12



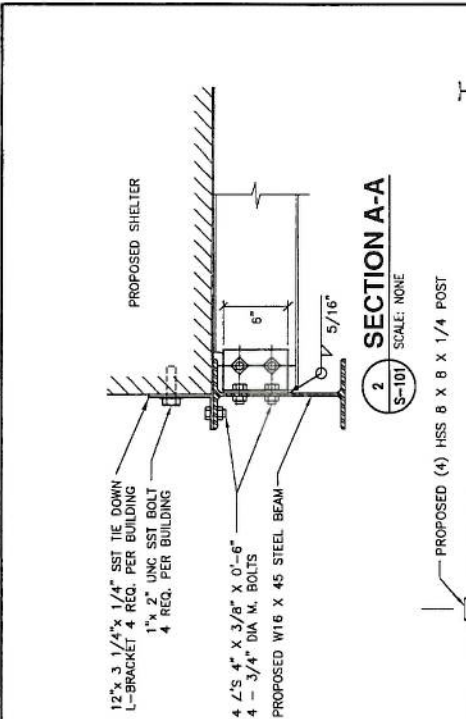
BILL OF MATERIALS

PART NO.	QTY	DESCRIPTION
1	200-8	KEEPCARD CONTRACTOR BASE
2	800-8	5 FT SECTION KEEPCARD CONTRACTOR
3	800-8	8 FT SECTION KEEPCARD CONTRACTOR

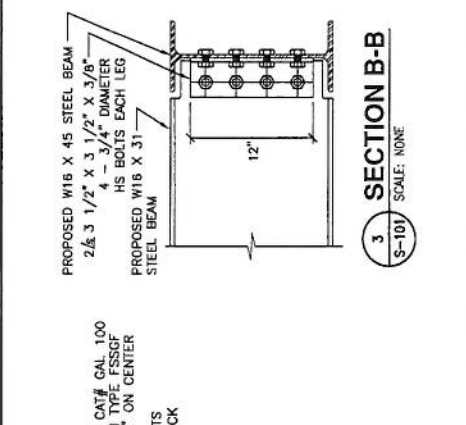


<p>TURNING MILL CONSULTANTS, INC. DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS PO BOX 1199 SALEM, NH 03079 TEL: (603) 888-4383 • FAX: (603) 888-4248 www.turningmillconsultants.com</p>		<p>SAI communications 22 KEEWAYDIN DRIVE SALEM, NH 03079</p>		<p>at&t Mobility 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701</p>		<p>AT&T MOBILITY FRAMINGHAM, MA 01701</p>																										
<p>SITE NUMBER: ME2978 SITE NAME: PORTLAN - BAXTER BLVD 500 WASHINGTON AVE PORTLAND, ME 04103 CUMBERLAND COUNTY</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>ISSUED FOR REVIEW</th> <th>BY</th> <th>CHK APPR</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/01/11</td> <td>ISSUED FOR REVIEW</td> <td>TDC</td> <td>SRS</td> </tr> <tr> <td>1</td> <td>09/19/11</td> <td>CHK SHELTER DESIGN</td> <td>TDC</td> <td>SRS</td> </tr> <tr> <td>2</td> <td>10/05/11</td> <td>REISSUED FOR REVIEW</td> <td>TDC</td> <td>SRS</td> </tr> <tr> <td>3</td> <td>10/10/11</td> <td>REISSUED FOR CONSTRUCTION</td> <td>TDC</td> <td>SRS</td> </tr> </tbody> </table>		NO.	DATE	ISSUED FOR REVIEW	BY	CHK APPR	0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	1	09/19/11	CHK SHELTER DESIGN	TDC	SRS	2	10/05/11	REISSUED FOR REVIEW	TDC	SRS	3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	<p>DESIGNED BY: MJS</p> <p>DRAWN BY: TDC</p>		<p>CONSTRUCTION DETAILS - SHEET 2 OF 2</p> <p>JOB NUMBER: SAI 11.4.3</p> <p>DRAWING NUMBER: A-502</p>	
NO.	DATE	ISSUED FOR REVIEW	BY	CHK APPR																												
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS																												
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3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS																												

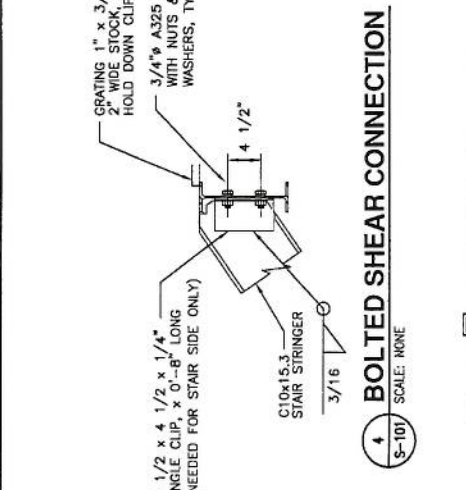
AA 12
10/6/12



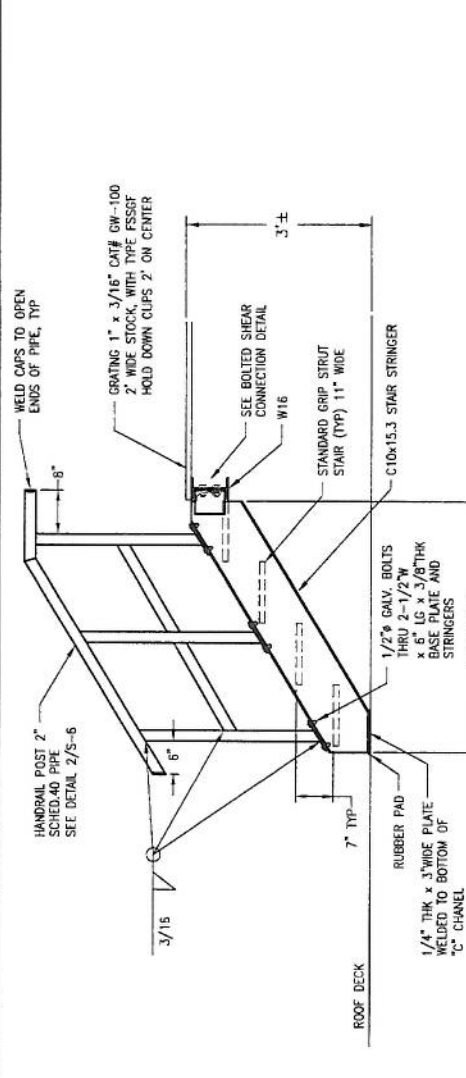
2 SECTION A-A
S-101 SCALE: NONE



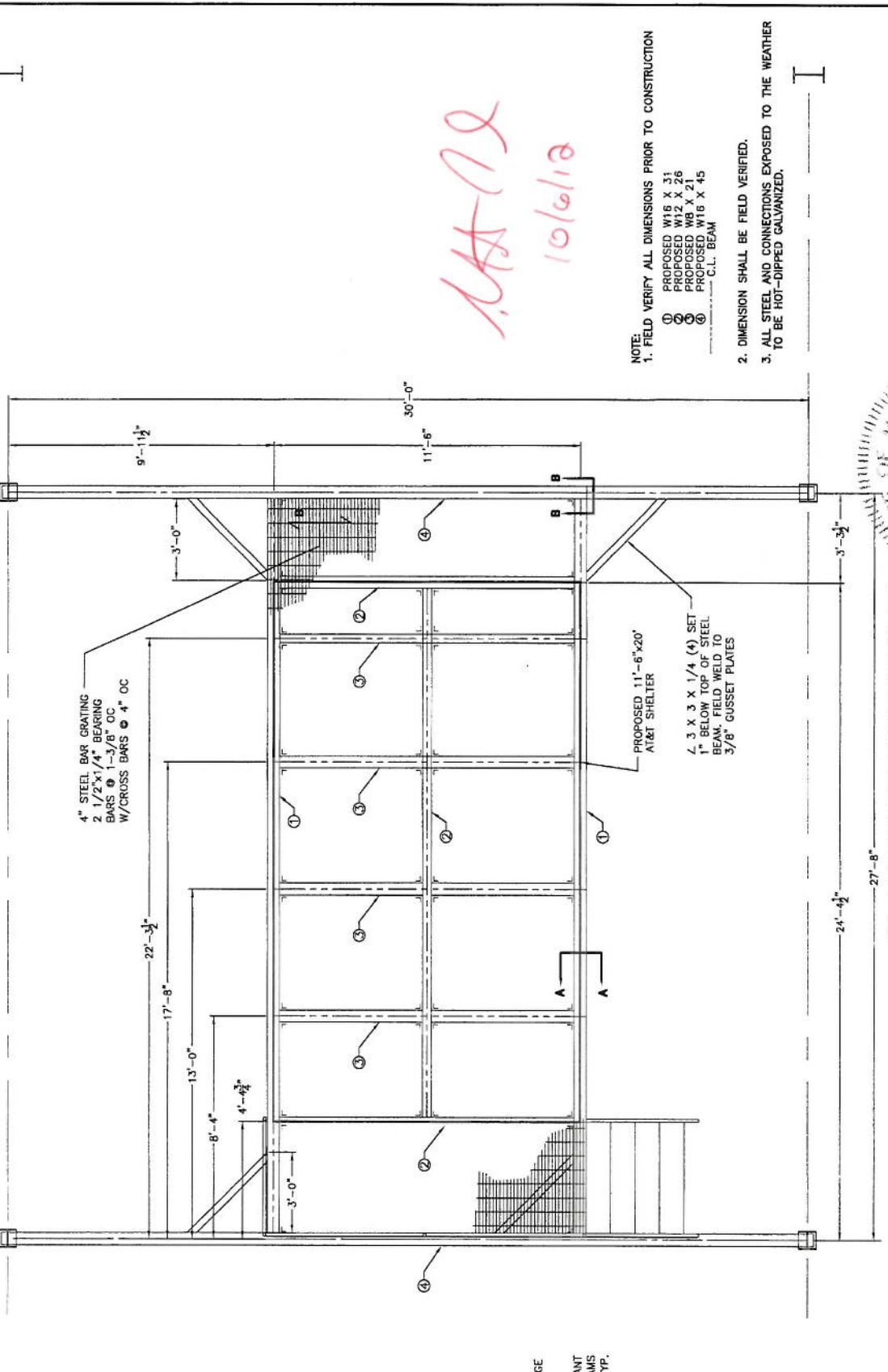
3 SECTION B-B
S-101 SCALE: NONE



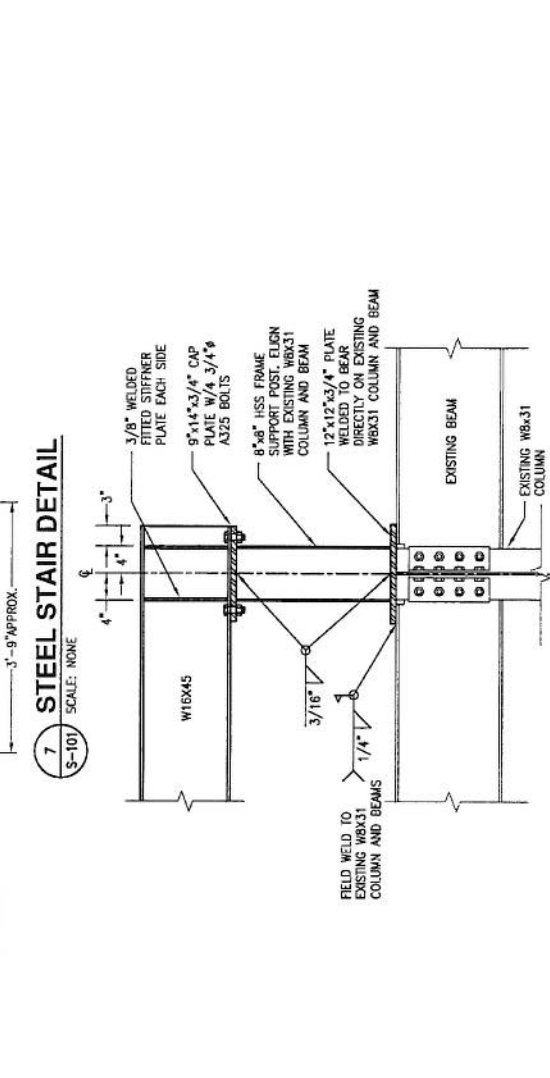
4 BOLTED SHEAR CONNECTION
S-101 SCALE: NONE



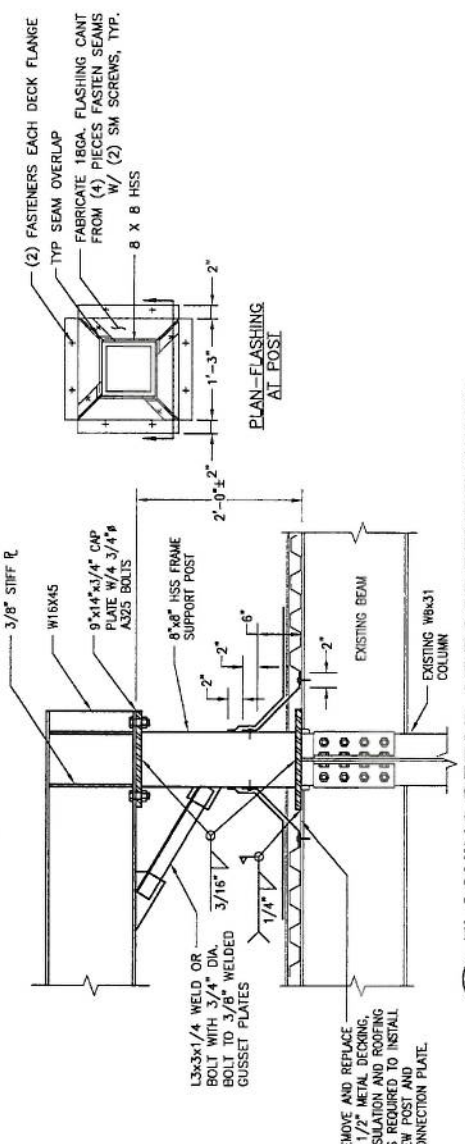
7 STEEL STAIR DETAIL
S-101 SCALE: NONE



1 SHELTER ROOF FRAME PLAN
S-101 SCALE: 3/8\"/>



6 POST CONNECTION DETAIL
S-101 SCALE: NONE



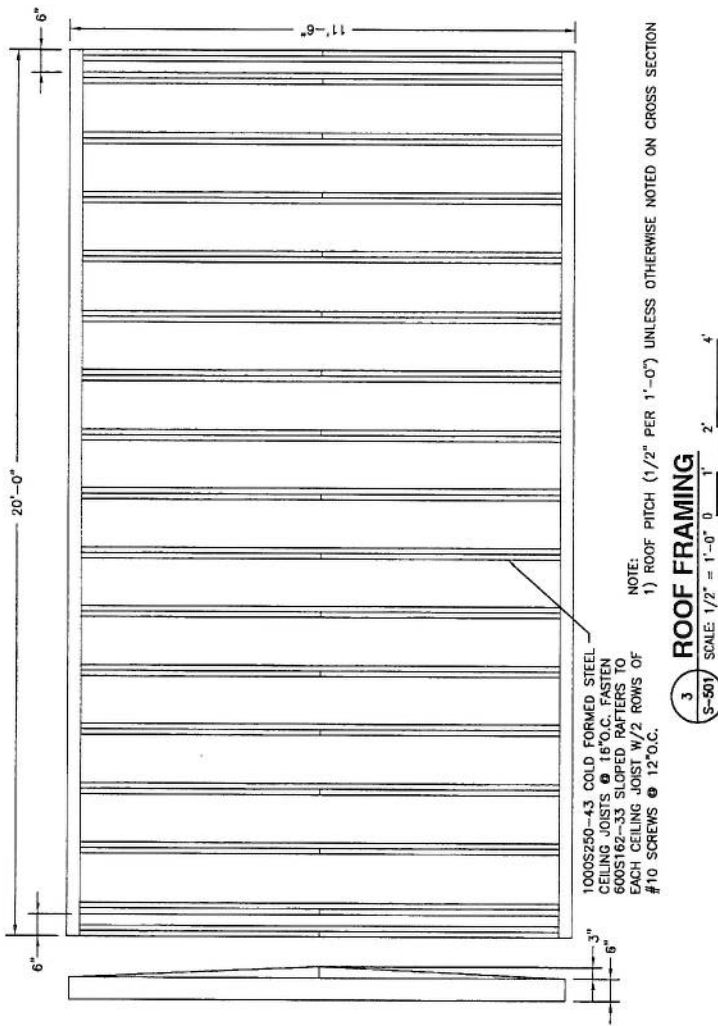
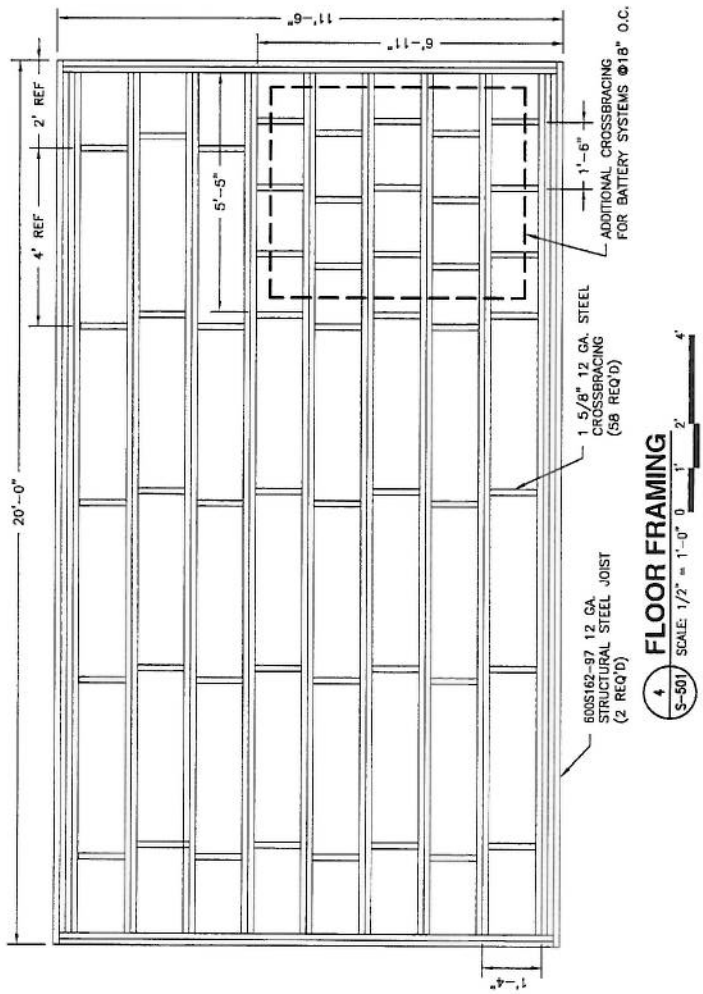
5 FLASHING DETAIL AT ROOF PENETRATION
S-101 SCALE: NONE

NOTE:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION
 ① PROPOSED W16 X 31
 ② PROPOSED W12 X 26
 ③ PROPOSED W8 X 24
 ④ PROPOSED W16 X 45
 --- C.L. BEAM

2. DIMENSION SHALL BE FIELD VERIFIED.
 3. ALL STEEL AND CONNECTIONS EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED.

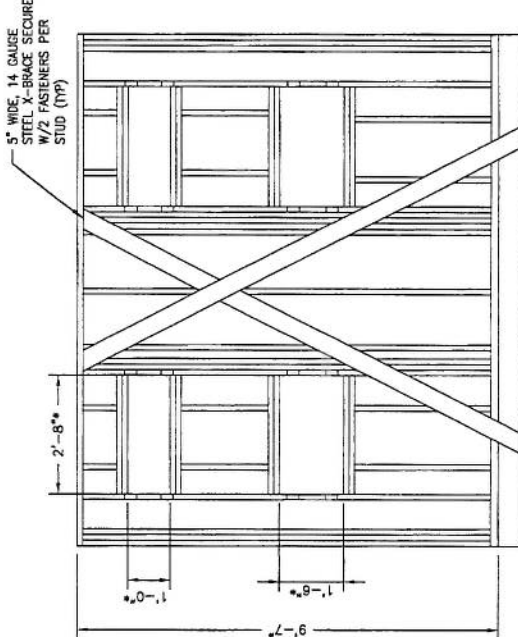
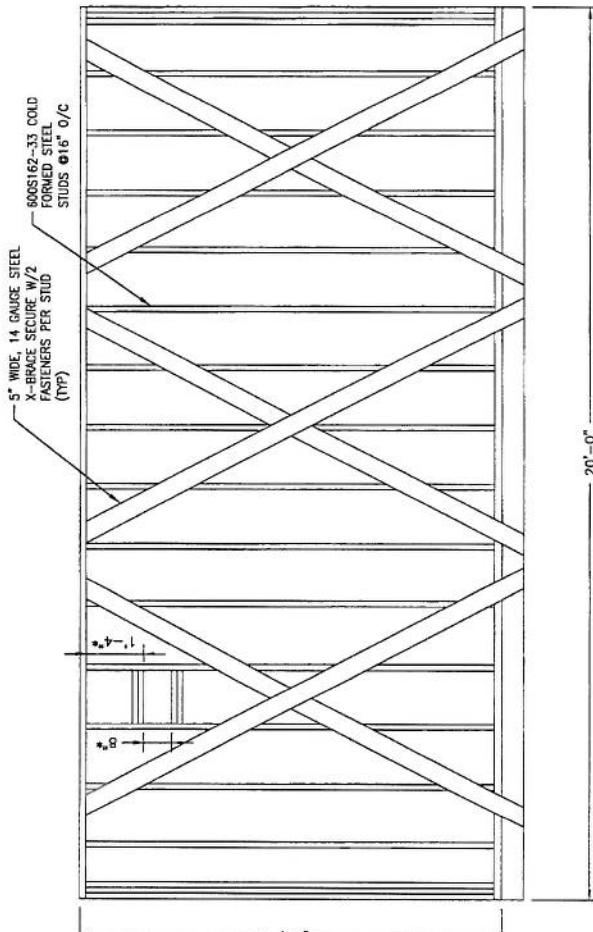
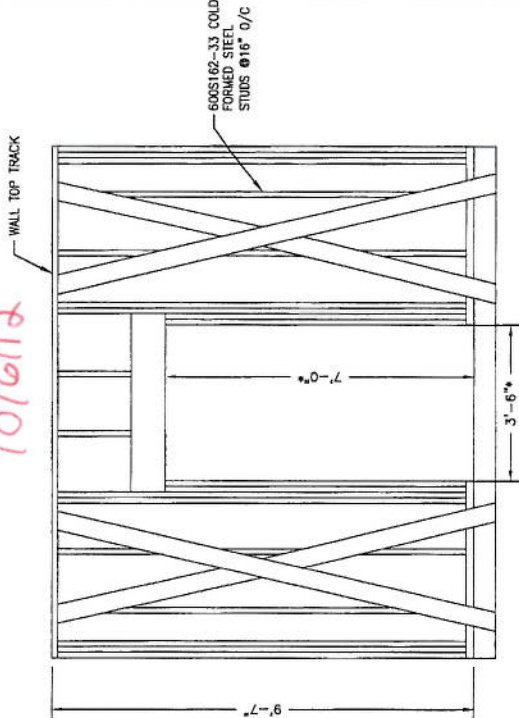
AA-12
10/6/12

<p>550 COCHITUATE ROAD FRAMINGHAM, MA 01701</p>		<p>AT&T MOBILITY FRAMINGHAM, MA 01701</p>	
<p>SITE NUMBER: ME2978 SITE NAME: PORTLAN - BAXTER BLVD 500 WASHINGTON AVE PORTLAND, ME 04103 CUMBERLAND COUNTY</p>		<p>EQUIPMENT SHELTER FRAME PLAN & DETAILS</p>	
<p>22 KEEWAYDIN DRIVE SALEM, NH 03079</p>		<p>SAI 11.4.3</p>	
<p>TURNING MILL CONSULTANTS, INC. DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS 80 UPPER ROAD, UNIT 3 PO BOX 4383 - FAX: (508) 688-4248 www.turningmillconsultants.com</p>		<p>REV 3 DRAWING NUMBER S-101</p>	



NOTE: 1) ROOF PITCH (1/2" PER 1'-0") UNLESS OTHERWISE NOTED ON CROSS SECTION

AKA
10/6/12



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

1 X-BRACING FRAME DETAILS
SCALE: 1/2" = 1'-0" 0 1' 2'

NOTE: CONTRACTOR SHALL VERIFY ALL ROUGH OPENING DIMENSIONS FOR EQUIPMENT PRIOR TO FRAMING.

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SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

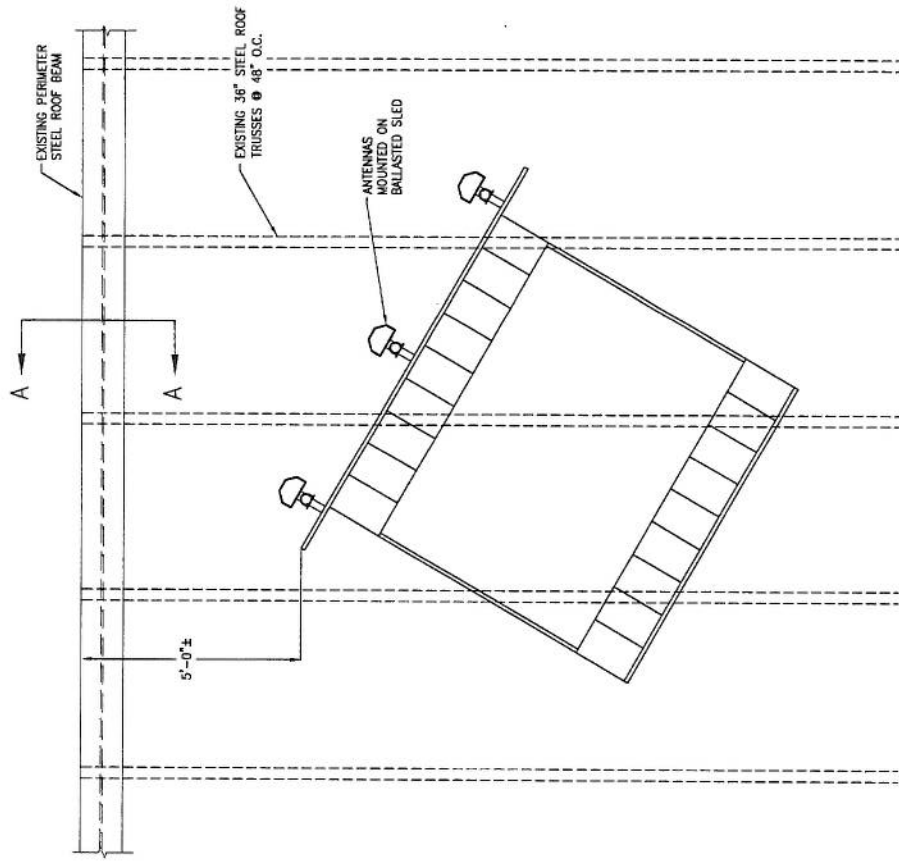
at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK APP'D
3	10/10/11	ISSUED FOR CONSTRUCTION	TDC	SRS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS

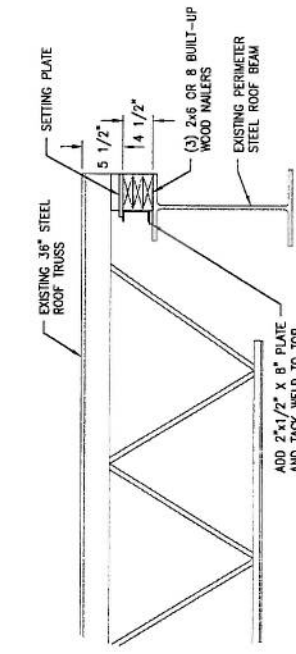
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DRAWN BY: TDC

AT&T MOBILITY
FRAMINGHAM, MA 01701
EQUIPMENT SHELTER
FRAMING DETAILS - SHEET 1 OF 2
JOB NUMBER: SAI 11.43
DRAWING NUMBER: S-501
REV: 3

STATE OF MASSACHUSETTS
JAMES P. STROKE
2874 -
LICENSED PROFESSIONAL ENGINEER

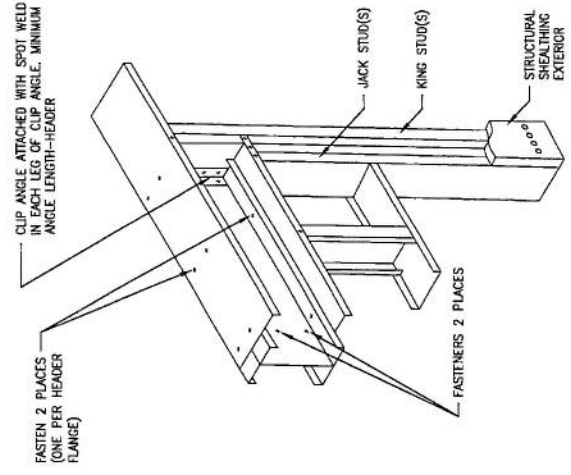


6 ANTENNA SUPPORTING SLED
SCALE: NONE

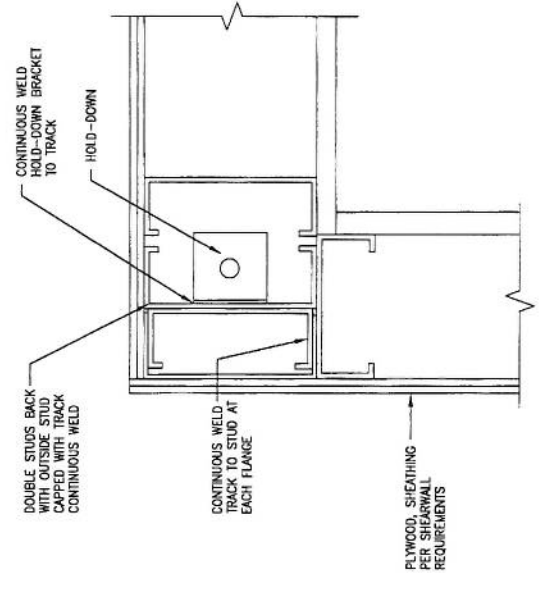


SECTION A-A

(TYPICAL AT TRUSS END BEARING CONNECTION UNDER ALL TRUSSES SUPPORTING ANTENNA BALLASTED MOUNTS)

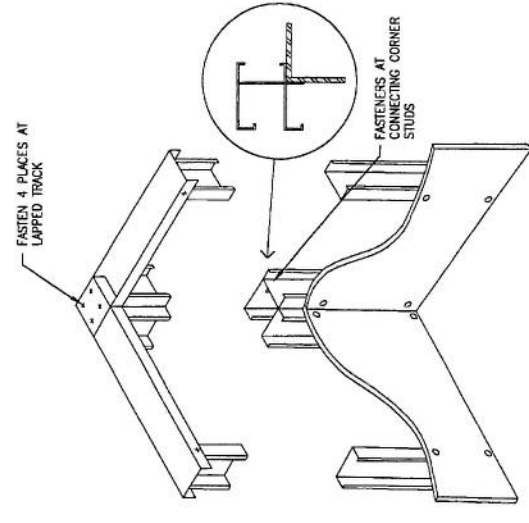


4 HEADER DETAIL
SCALE: NONE

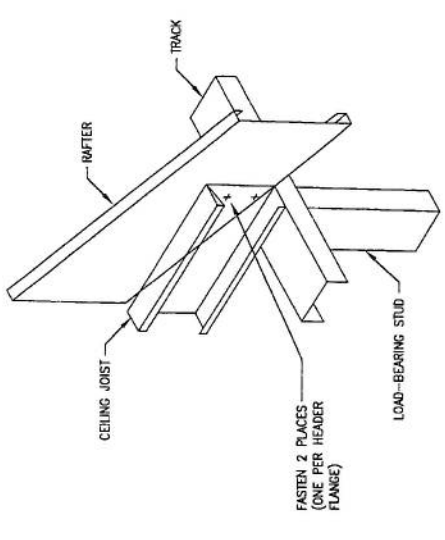


2 CORNER STUD HOLD-DOWN DETAIL
SCALE: NONE

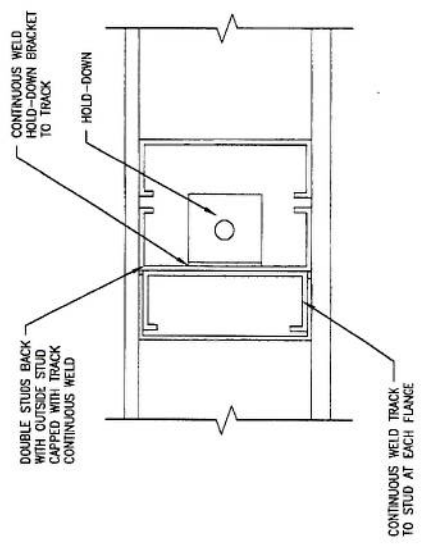
AKA-12
10/6/10



3 CORNER FRAMING DETAIL
SCALE: NONE



1 JOIST TO RAFTER DETAIL
SCALE: NONE



5 TRIPLE STUD DETAIL
SCALE: NONE

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SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

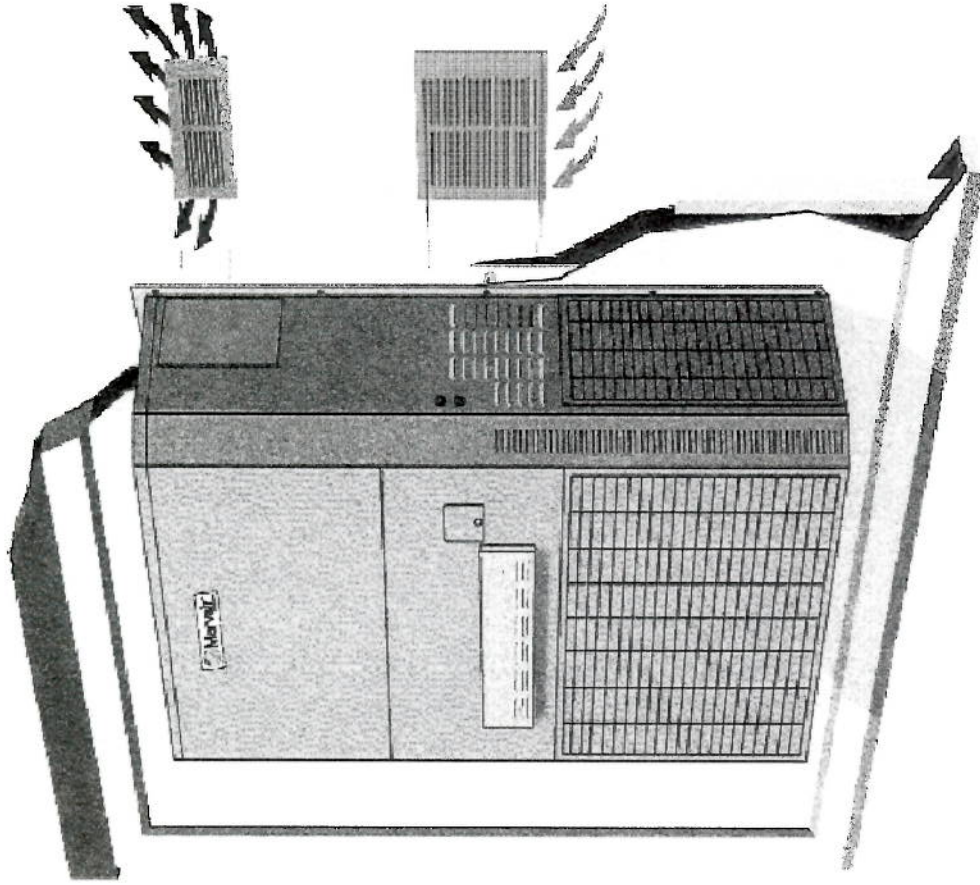
at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK APP.
3	10/10/11	ISSUED FOR CONSTRUCTION	TOC	SRS, JPS
2	10/05/11	ISSUED FOR REVIEW	TOC	SRS, JPS
1	09/19/11	CHG. SHELTER DESIGN	TOC	SRS, JPS
0	08/01/11	ISSUED FOR REVIEW	TOC	SRS, JPS

DESIGNED BY: MAS
DRAWN BY: TOC
SCALE:

AT&T MOBILITY FRAMINGHAM, MA 01701	JOB NUMBER SAI 11.43	DRAWING NUMBER S-502	REV 3
EQUIPMENT SHELTER FRAMING DETAILS - SHEET 2 OF 2			

JAMES P. STROKE
STATE OF MAINE
LICENSED PROFESSIONAL ENGINEER
NO. 2674

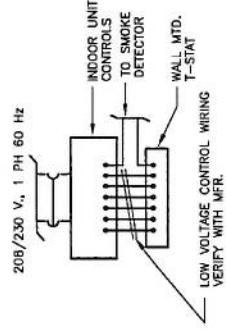
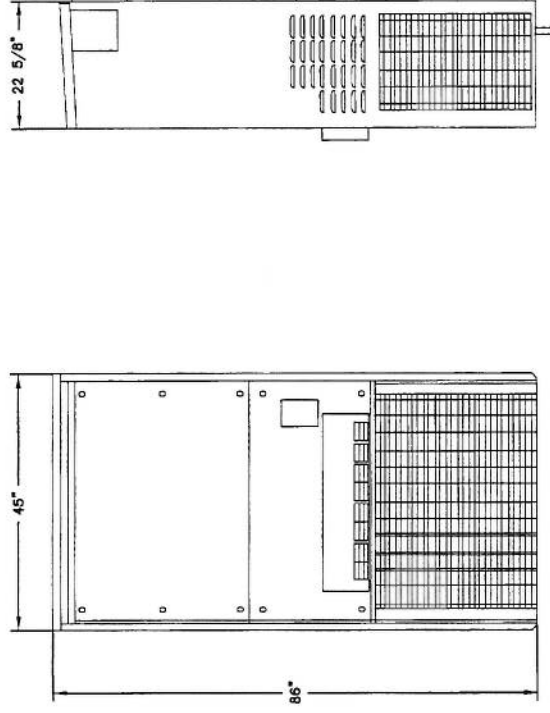


**AT&T HVAC EQUIPMENT SCHEDULE
THREE PHASE**

MANUFACTURER:	MARVAIR
MODEL:	AVP60-ACA
SYMBOL:	AHU-3
COOLING (BTU/HR):	56,000
NOMINAL TONS:	5
VOLTAGE:	208/230-14-60HZ
CIRCUIT BREAKER:	60A
WEIGHT:	585 LBS
FILTERS:	
MANUFACTURER:	MARVAIR
SIZE:	22" X 36" 1/2" X 2"
PART NO:	AVP60

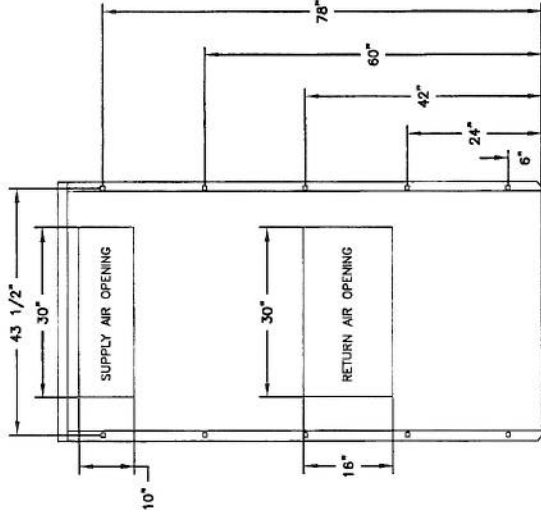
HVAC GENERAL NOTES

1. INSULATE SENSORS FROM WALL. SEAL ALL HOLES FOR WIRING WITH SILICONE SEALER TO PREVENT DRAFTS FROM AFFECTING THE SENSORS.
2. PIPING TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. INSULATE CONDENSATE DRAIN LINE WITH 1/2-INCH THICK FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. TAPE ALL JOINTS.
4. A/C UNITS SHALL BE CONTROLLED BY EXISTING CONTROL PANEL.
5. CONTRACTOR TO FABRICATE RETURN AND SUPPLY AIR PLENUMS FOR AIR HANDLING EQUIPMENT.



NOTE:
SMOKE DETECTOR IS TO SHUT DOWN AC UNIT WHEN ACTIVATED. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF SMOKE DETECTOR.

2 A/C UNIT CONTROLS
SCALE: NONE



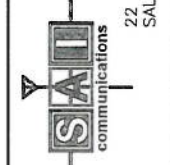
AA-CL
10/6/12

1 A/C UNIT DETAILS
SCALE: NONE



at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY



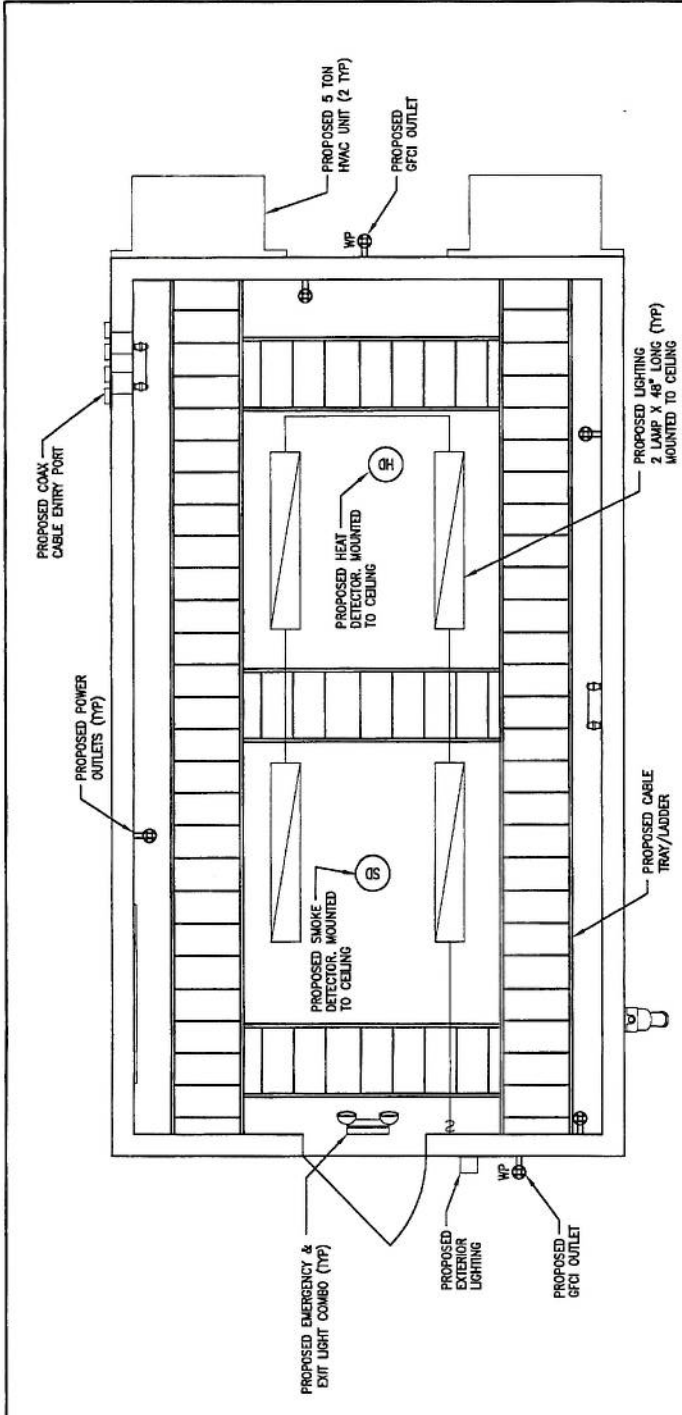
TURNING MILL CONSULTANTS, INC.
DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS
65 TUPPER ROAD, UNIT 3
PO BOX 100
TEL: (603) 892-4383 - FAX: (603) 894-4246
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3	10/10/11	ISSUED FOR CONSTRUCTION	TDC	SRS	JPS
2	10/05/11	ISSUED FOR REVIEW	TDC	SRS	JPS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
0	08/07/11	ISSUED FOR REVIEW	TDC	SRS	JPS
NO.	DATE	REVISIONS	BY	CHK	APP'D

SCALE: AS INDICATED
DESIGNED BY: MJS
DRAWN BY: TDC

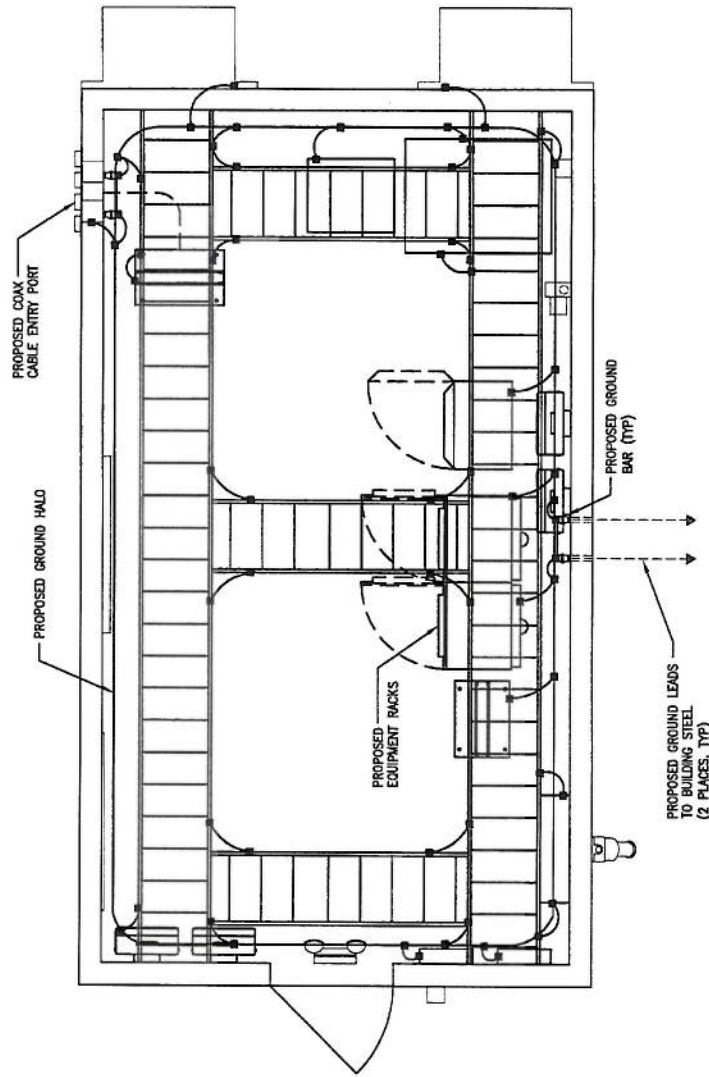
AT&T MOBILITY
FRAMINGHAM, MA 01701
HVAC DETAILS

JOB NUMBER	SAI 11.4.3	DRAWING NUMBER	M-101
REV			3



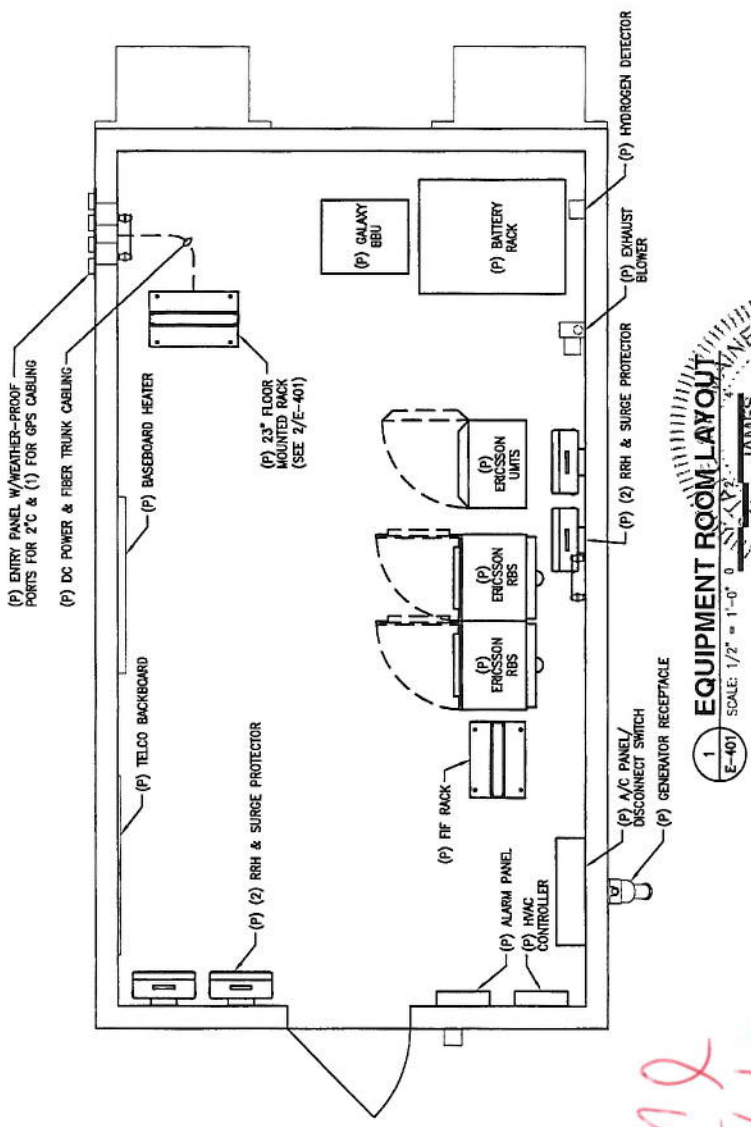
NOTES:
 1. PROVIDE BRANCH-CIRCUIT WIRING PER CODE.
 2. SMOKE AND HEAT DETECTORS TO HAVE LOCAL ALARM AND CONTACTS WIRED INTO ALARM SYSTEM.

2 LIGHTING/POWER PLAN
 (E-401) SCALE: 1/2" = 1'-0"



3 GROUND SCHEMATIC DIAGRAM
 (E-401) SCALE: NONE

NOTE:
 1. MASTER GROUND BAR AND EXTERNAL GROUND BAR TO BE INDIVIDUALLY AND SEPARATELY CAD WELDED TO GROUND ROD DIRECTLY BELOW BUSS BAR'S LOCATION.



1 EQUIPMENT ROOM LAYOUT
 (E-401) SCALE: 1/2" = 1'-0"

NO.	DATE	REVISIONS	BY	CHK	APP
3	10/10/11	ISSUED FOR CONSTRUCTION	TDC	SRS	JPS
2	10/05/11	ISSUED FOR REVIEW	TDC	SBS	JPS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JPS

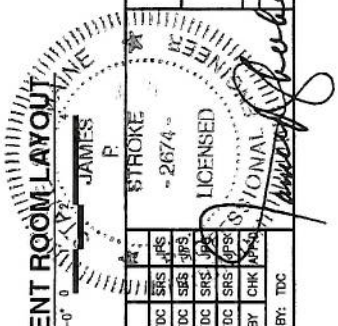
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SCALE:	AS INDICATED	DATE:	11.4.3
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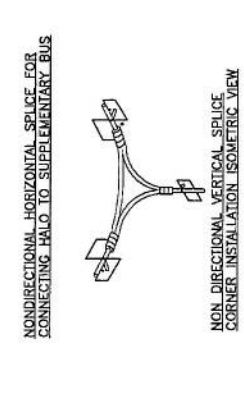
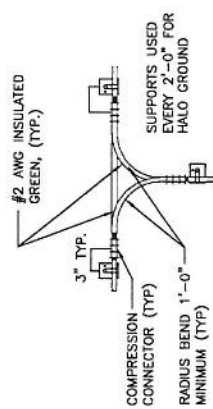
at&t Mobility
 550 COCHITUATE ROAD
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SAI communications
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 SALEM, NH 03079

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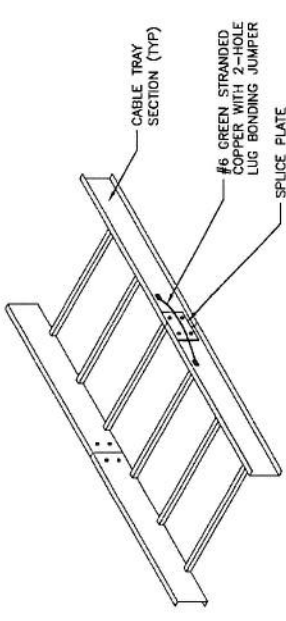
AT&T
 10/6/12



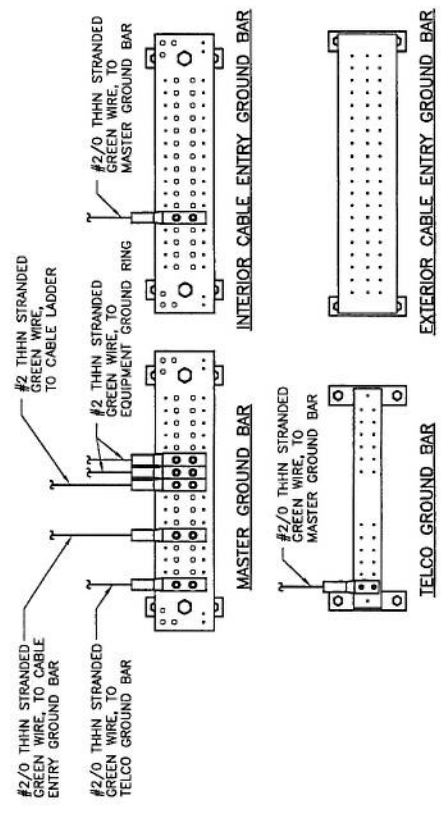


7 HALO GROUND DETAIL
SCALE: NONE

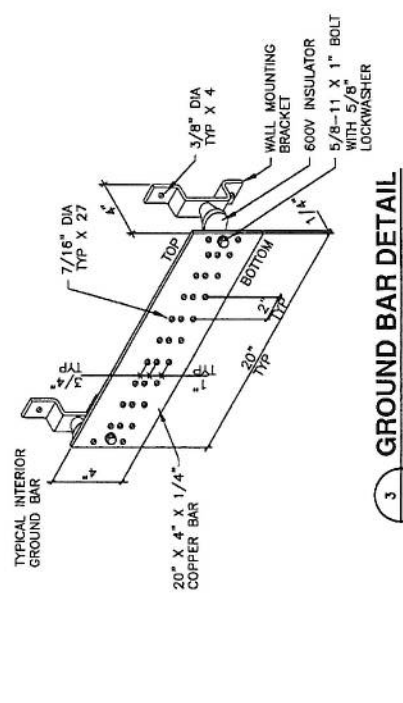
8 WAVEGUIDE GROUNDING
SCALE: NONE



5 CABLE TRAY GROUND SPLICE DETAIL
SCALE: NONE



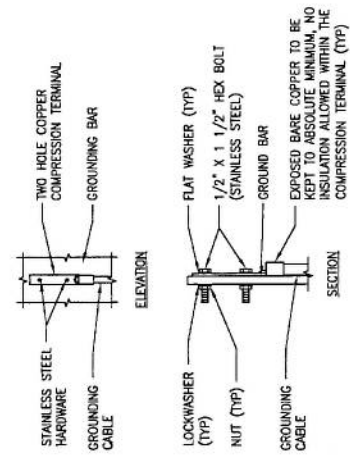
4 GROUND BAR CONNECTION DETAIL
SCALE: NONE



3 GROUND BAR DETAIL
SCALE: NONE

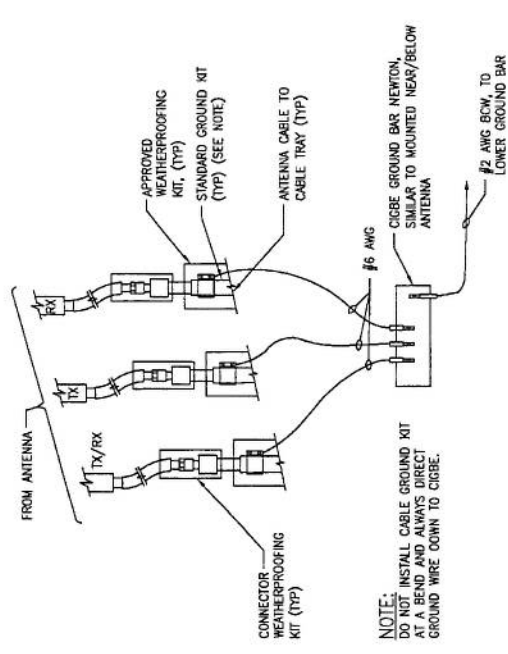
- NOTES:
1. SURFACE PREPARATION ALL CONNECTIONS MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE MADE BARE TO ENSURE PROPER CONTACT. NO WASHERS SHALL BE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS SHALL HAVE AN ANTI-OXIDANT AGENT APPLIED PRIOR TO INSTALLATION.
 2. BUSS PREPARATION: ALL COPPER BUSSSES SHALL BE CLEANED, POLISHED AND AN ANTI-OXIDANT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 3. LITERMINATIONS: ALL EQUIPMENT TERMINATIONS SHALL BE MADE WITH A BURNDY TWO HOLE COMPRESSION LUG WITH 10-24 X 3/4\"/>

AK/CL
10/6/12



- NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

2 TYPICAL MECHANICAL CONNECTION
SCALE: NONE



6 CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE)
SCALE: NONE

		AT&T MOBILITY FRAMMINGHAM, MA 01701	
SITE NUMBER: ME2978 SITE NAME: PORTLAN - BAXTER BLVD 500 WASHINGTON AVE PORTLAND, ME 04103 CUMBERLAND COUNTY		ELECTRICAL GROUNDING DETAILS	
550 COCHITUA ROAD SUITES 13 & 14 FRAMMINGHAM, MA 01701		JOB NUMBER: SAI 11.43 DRAWING NUMBER: E-501	
3 10/10/11 ISSUED FOR CONSTRUCTION 2 10/05/11 ISSUED FOR REVIEW 1 09/19/11 CHG SHELTER DESIGN 0 08/01/11 ISSUED FOR REVIEW	TDC SRS JPS TDC SRS JPS TDC SRS JPS TDC SRS JPS	DESIGNED BY: M.S DRAWN BY: TDC	REV 3 E-501

TURNING MILL CONSULTANTS, INC.
DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS
68 UPPER ROAD, UNIT 3
PORTLAND, ME 04103
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22 KEEMAYDIN DRIVE
SALEM, NH 03079

ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. EQUIPMENT ITEMS NOT SHOWN OR CALLED FOR SUCH AS BOXES, HANGERS, CONDUITS, DEVICES, GROUNDING, ETC. SHALL ALSO BE FURNISHED AND INSTALLED TO MAKE A COMPLETE AND WORKABLE ELECTRICAL SYSTEM.
- THE WORK SHALL INCLUDE, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - RECEPTACLE FOR PORTABLE GENERATOR
 - FURNISH AND INSTALL MANUAL TRANSFER SWITCH & ACCESSORIES
 - CIRCUIT BREAKERS, FUSES, DISCONNECT SWITCHES, LOAD CENTER
 - TRANSFORMERS, CIRCUIT BREAKERS, CIRCUIT BREAKERS
 - FEEDERS AND BRANCH CIRCUIT CONDUITORS
 - DEVICES AND PLATES
 - LIGHTING FIXTURES AND LAMPS
 - EXIT AND EMERGENCY LIGHTING SYSTEM
 - CIRCUIT, SYSTEM AND EQUIPMENT GROUNDING
 - PERMITS, INSPECTIONS, BACK CHARGES AND TESTS
 - AUTOMATIC FIRE ALARM SYSTEM
 - NAME PLATES
 - AUTOMATIC TEMPERATURE CONTROL WIRING
- THE FOLLOWING WORK IS TO BE DONE BY OTHER TRADES:
 - EXCAVATION AND BACKFILL
 - CONCRETE WORK
 - MECHANICAL WORK
 - CUTTING AND PATCHING
 - TELEPHONE AND COAX SYSTEM WIRING
- OBTAIN AND PAY FOR ALL REQUIRED TEST, PERMITS, INSPECTIONS, BACK CHARGES AND TEMPORARY POWER CONSTRUCTION.
- ALL WORK SHOWN ON THE PLANS IS INTENDED TO BE APPROXIMATELY CORRECT TO SCALE, BUT FIELD CONDITIONS MAY REQUIRE MODIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE FOR INFORMATION ONLY. RUNNING CONDUITS AND CABLES ARE SHOWN, BUT IT IS NOT INTENDED TO SHOW OFFSETS AND FITTINGS, OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED.
- MATERIAL, INSTALLATIONS AND WORKMANSHIP SHALL BE IN FULL ACCORD WITH THE MOST MODERN ELECTRICAL CONSTRUCTION REQUIREMENTS. ALL MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE, BOCA AND NATIONAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF ANY DEFECTS IN MATERIAL OR WORKMANSHIP OCCUR WITHIN THIS PERIOD, THEY SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL INVESTIGATE ALL CONDITIONS UNDER WHICH HIS WORK WILL BE PERFORMED. HE SHALL COORDINATE HIS WORK SO THAT IT INTERFERES WITH THE WORK OF OTHER TRADES AND THE GENERAL CONTRACTORS BUILDING SCHEDULE.
- FURNISH AND INSTALL ALL REQUIRED CIRCUIT AND SYSTEM GROUNDING, ENCLOSURE AND EQUIPMENT GROUNDING, BONDING TO ASSURE ELECTRICAL CONTINUITY AND GROUNDING CONDUCTORS AS REQUIRED. MINIMUM REQUIREMENTS SHALL BE PER NATIONAL ELECTRIC CODE, ARTICLE 250. ALL EXTERIOR CONDUITS SHALL CARRY A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUIT GROUND. SIZE OF CONDUCTOR SHALL BE AS NOTED ON THE DRAWINGS.
- CONDUITS IN FURRED SPACES, ABOVE CEILINGS AND NON-FINISHED INTERIOR AREAS SHALL BE ELECTRICAL METALLIC TUBING (EMT). CONDUITS EXPOSED TO WEATHER SHALL BE GALVANIZED RIGID STEEL PVC COATED (GRS). DISSIMILAR METALS IN CONTACT ANYWHERE IN THE CONDUIT SYSTEM SHALL BE AVOIDED. POLYVINYL CHLORIDE (PVC) SHALL NOT BE USED. CONDUITS ABOVE GRADE SHALL BE RUN PARALLEL TO STADIUM WALLS AND COLUMN LINES. RIGID STEEL GALVANIZED PVC COATED CONDUIT SHALL CONFORM TO THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 6, 514 AND 1242. CONDUIT AND FITTINGS SHALL BE COATED WITH 40 MILL POLYVINYL CHLORIDE BONDED TO THE CONDUIT WITH AN EPOXY PRIME. PVC COATED CONDUITS SHALL CONFORM TO NEMA RNT-1960 (TYPE 40).
- CONDUITORS FOR GENERAL WIRING SHALL BE COPPER TYPE THHN/THWN OR XHHW MAXIMUM TEMPERATURE RATING FOR CURRENT CARRYING SHALL BE 75°C. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG FOR POWER CIRCUITS. CONTROL WIRING SHALL BE A MINIMUM OF #14 AWG OR AS NOTED ON THE DRAWINGS. NON-METALLIC SHEATHED CABLE (NM-B) OR METAL-CLAD CABLE (AC) SHALL NOT BE USED. ALUMINUM CONDUCTORS SHALL NOT BE USED.
- LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ABOVE WITH JACK CHAIN, THREADED ROD OR HEAVY GAUGE WIRE. COORDINATE LOCATIONS OF LIGHT FIXTURES WITH THE EQUIPMENT PLAN.
- ALL WIRING THROUGHOUT THE PROJECT INCLUDING POWER, COMMUNICATION, FIBER AND COAX SHALL BE RUN IN EMT CONDUIT TO MATCH EXISTING.
- FURNISH AND INSTALL ALL REQUIRED HANGERS, STRUCTURAL SUPPORTS, RIGGING, SLEEVES, LADDERS, HOIST, LABOR, AND OTHER REQUIREMENTS FOR THE ABOVE INSTALLATION OF ALL ELECTRICAL EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE ON THE PROPER OPERATION AND MAINTENANCE OF ALL ELECTRICAL EQUIPMENT. LITERATURE PROVIDED BY THE MANUFACTURER, REGARDING PROPER OPERATING AND MAINTENANCE PROCEDURES, TO THE OWNER.
- INSTALL SCHEDULES IN ALL PANELBOARDS. SCHEDULES SHALL DESIGNATE EQUIPMENT SERVED. SCHEDULES SHALL BE TYPED.
- STENCIL ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO STENCIL THE FUSE LINK AMPERE RATING.
- COLOR CODE OF PHASE CONDUCTORS FOR 277/480, 120/208V AND GROUND SHALL BE BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. NEUTRAL CONDUCTOR SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NEUTRAL GREY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

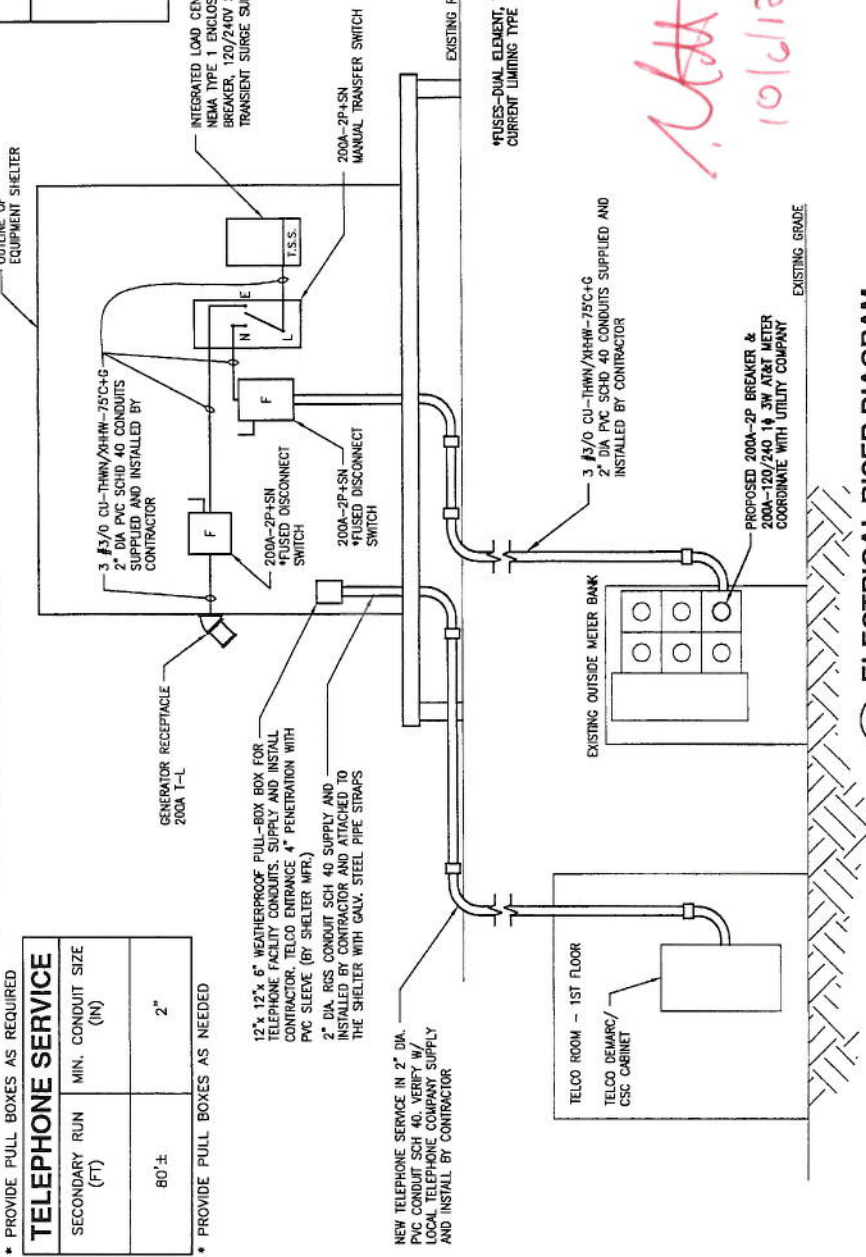
- CLEAN PREMISES EACH DAY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAUNTED CONDITION.
- ALL CONDUIT SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED, NO HORIZONTAL CONDUIT BELOW 7'-0" A.F.F.
- THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDING USING COMPRESSION-TYPE CONDUIT FITTINGS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. ALL WIRE AND EQUIPMENT CIRCUITS SHALL BE GROUNDING USING A FULL-SIZE EQUIPMENT GROUNDING CONDUCTOR RUN WITH THE CURRENT CONDUCTORS.
- ALL ALARM WIRES SHALL BE TAGGED AND LABELED WITH THE APPROPRIATE ALARM ITEM. ALL CONTACTS WILL BE NORMALLY CLOSED, DRY, AND ISOLATED FROM GROUND.
- ALL ALARM WIRING SHALL BE 1/2" C, 2-#18, UNLESS OTHERWISE NOTED.
- INTERIOR GROUNDING HALO TO BE #2 INSUL GREEN STRANDED CONTINUOUS LOOP.
- EQUIPMENT SHALL BE BONDED TO THE INTERIOR HALO USING #6 INSULATED GREEN STRANDED.
- BONDING JUMPER SHALL BE INSTALLED AT ALL CABLE/RACK JUNCTIONS. JUMPER TO BE #6 INSULATED GREEN STRANDED.
- CABLE/RACK SHALL BE BONDED TO INTERIOR HALO IN MIN. OF 4 PLACES USING #6 INSULATED GREEN STRANDED.
- ALL BONDING SHALL BE DONE WITH TWO HOLE COMPRESSION LUGS.

ELECTRICAL SERVICE

SECONDARY RUN (FT)	CONDUCTOR SIZE (AWG)	MIN. CONDUIT SIZE (IN)	GROUNDING ELECTRODE CONDUCTOR SIZE (AWG)
150±	3-#3/0	2	#4

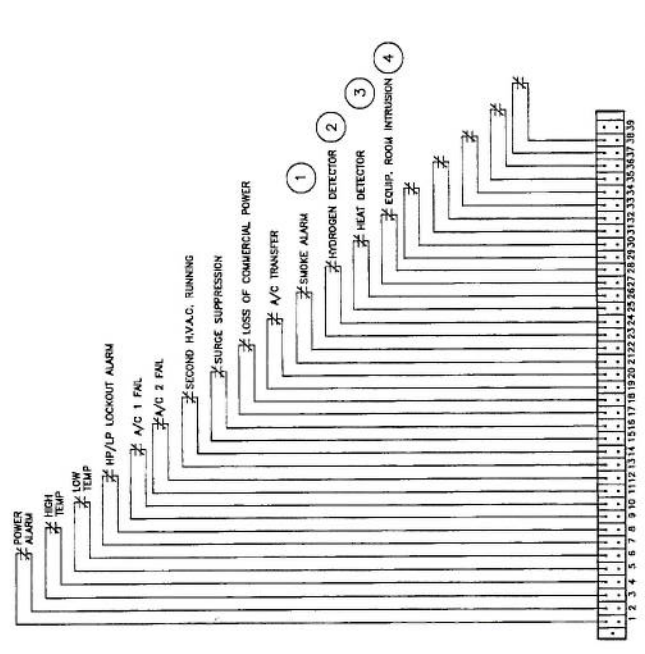
TELEPHONE SERVICE

SECONDARY RUN (FT)	MIN. CONDUIT SIZE (IN)
80±	2"



1 ELECTRICAL RISER DIAGRAM
E-801 SCALE: NONE

AT&T ALARM SCHEDULE



- ALL ALARM WIRING SHALL BE 18 AWG STRAND (MULTI-COLORED) INSULATION. NON-SHELD CABLE
- ALL ALARM WIRING FROM RIGHT SIDE OF TERMINAL BLOCKS WILL BE PROVIDED AND INSTALLED BY VERIZON
- ALL CONTACTS FOR ALARM SHALL BE NORMALLY CLOSED

AT&T PANEL SCHEDULE

200 AMP MB PANEL BOARD 120/240 VOLTS 1PH 60HZ

CKT #	DESCRIPTION	WIRE SIZE	AMP	WIRE SIZE	DESCRIPTION	CKT #
1	RECIFIER #1	10	30	6	H.V.A.C. UNIT #1	2
2	RECIFIER #2	10	30	6	H.V.A.C. UNIT #2	6
3	RECIFIER #3	10	30	12	LIGHTING (EXT/INT/EMERG)	10
4	RECIFIER #4	10	30	12	LIGHTING (INT/EMERG)	12
5	RECIFIER #5	10	30	12	WALL HEATER	14
6	RECIFIER #6	10	30	12	QUAD RECEPTACLES #4	16
7	LIE CABINET	10	30	12	SPARE	20
8	GALAXY DC PLANT	10	30	12	TWISTLOCK RECEPTACLE	22
9	SPACE	10	30	12	GFCI WP RECEPT. (EXT)	24
10	SPACE	10	30	12	HYDROGEN DETECTOR/MBT FN	26
11	SPACE	10	30	12	HEAT/SMOKE DETECTOR	28
12	SPACE	10	25	12	GFCI WP RECEPT. (EXT)	30
13	SPACE	10	25	12	SPACE	32
14	SPACE	10	25	12	SPACE	34
15	SPACE	10	25	12	SPACE	36
16	SPACE	10	25	12	SPACE	38
17	SPACE	10	25	12	SPACE	40
18	SPACE	10	25	12	SPACE	42

AT&T MOBILITY
FRAMINGHAM, MA 01701
ELECTRICAL ONE-LINE DIAGRAM,
NOTES & SCHEDULE

JAMES P. STROKE
-2674-
LICENSED PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

NO.	DATE	REVISIONS	DESIGNED BY: MJS	DRAWN BY: TDC
3	10/10/11	RESUBMITTED FOR CONSTRUCTION		
2	10/05/11	RESUBMITTED FOR REVIEW		
1	09/19/11	ENG SHELTER DESIGN		
0	08/01/11	ISSUED FOR REVIEW		

SCALE: AS INDICATED
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

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550 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

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JOB NUMBER: SAI 11.43
DRAWING NUMBER: E-601
REV: 3

GROUNDING NOTES

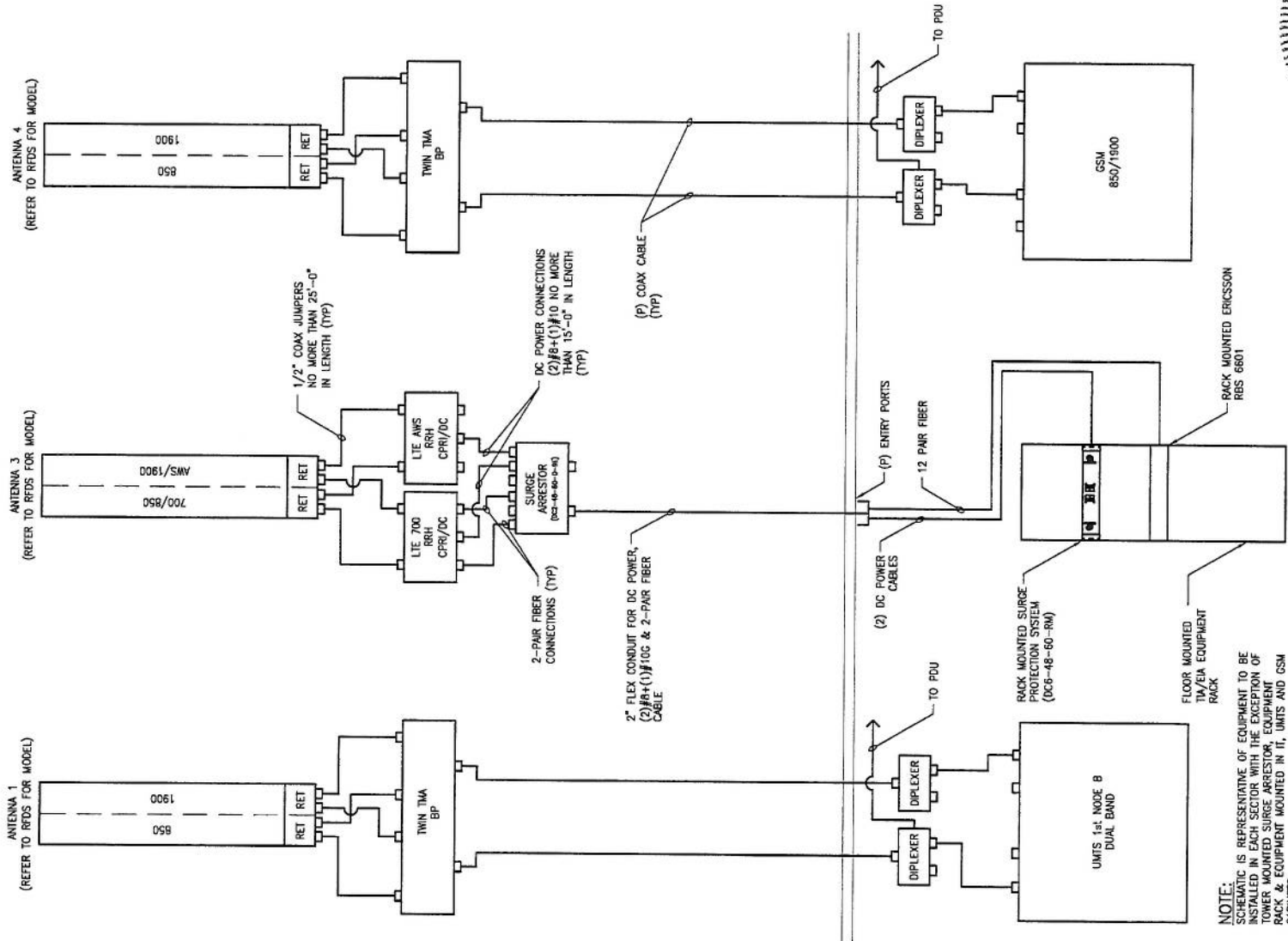
- THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED FOR SERVICE ON THE PROJECT) FOR COMPLIANCE WITH THE NEC (AS ADOPTED BY THE STATE) AND THE SITE SPECIFIC LIGHTNING PROTECTION SYSTEM (AS ADOPTED BY THE CONTRACTOR) AND GENERAL COMPLIANCE WITH TELECOM AND THE GROUNDING STANDARDS TO PROJECT MANAGEMENT FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GEE'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS. ALL AVAILABLE GROUNDING ELECTRODES SHALL BE CONNECTED TOGETHER IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-TO-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 81) FOR GROUND ELECTRODE SYSTEMS. USE OF OTHER METHODS MUST BE PRE-APPROVED BY PROJECT MANAGEMENT IN WRITING.
- THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS ON TOWER SITES AND 10 OHMS OR LESS ON ROOFTOP SITES. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN BONDED ELECTRODES AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BONDING DISTANCE. ADULTLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE CONDUITS WITH LISTED COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 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 TRANSMISSION EQUIPMENT. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR SPLICED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS SHALL BE PROHIBITED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR ALL GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
- EACH INTERIOR TRANSMISSION CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH 6 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE UNLESS NOTE OTHERWISE.
- IN THE EVENT EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH 4 AWG STRANDED TIN-PLATED COPPER WIRE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE EXTERIOR RING, SHALL BE 3 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE COMP. WELDS SHALL BE USED FOR ALL WELDED CONNECTIONS. WELDED CONNECTIONS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTOR'S STRUCTURAL ENGINEER.
- ALL WIRE TO GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS. EXOTHERMIC WELDS ARE A FIRE HAZARD. COPPER CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE MADE WITH MECHANICAL COMPRESSOR CLIP CONNECTORS. MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS, SHALL BE USED FOR CONNECTION TO ALL ROOFTOP TRANSMISSION EQUIPMENT AND STRUCTURAL STEEL.
- COAX BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO-HOLE MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
- APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL EXOTHERMIC WELDS AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF THE BURIED GROUND RING WITH 3 AWG SOLID TIN-PLATED COPPER GROUND CONDUCTOR. DURING CONSTRUCTION, IF EXISTING GROUND CONDUCTORS, IF EXISTING GROUND CONDUCTORS ARE ENCOUNTERED, BOND EXISTING GROUND CONDUCTORS TO NEW CONDUCTORS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE ROUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CODES, THE USE OF MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (I.E. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODES), GROUNDING CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.

AT&T MOBILITY
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ELECTRICAL SCHEMATIC DIAGRAMS

JOB NUMBER: SAI 11.43
DRAWING NUMBER: E-802

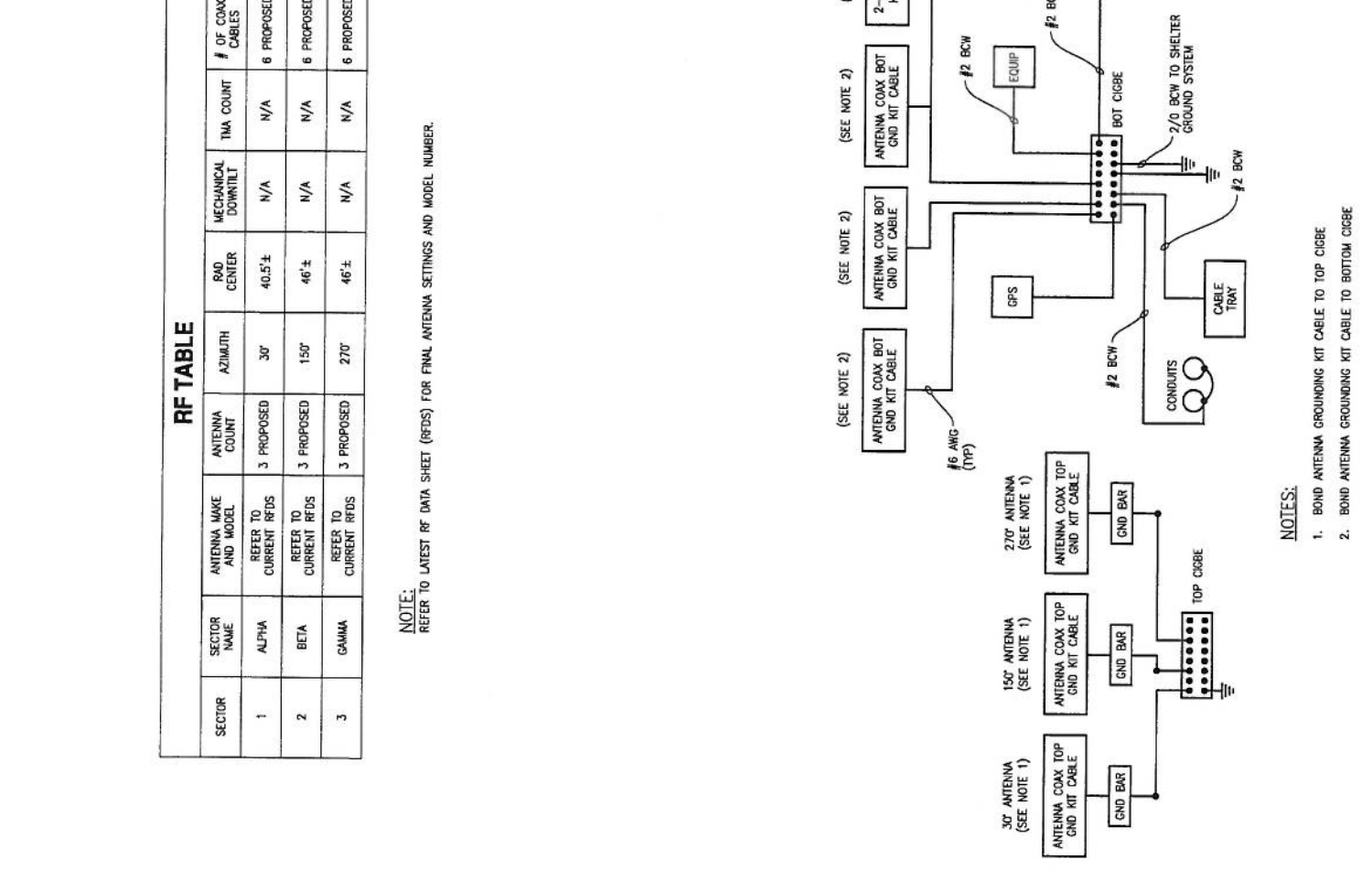
REV 3



RF TABLE

SECTOR	SECTOR NAME	ANTENNA MAKE AND MODEL	ANTENNA COUNT	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	TMA COUNT	# OF COAX CABLES
1	ALPHA	REFER TO CURRENT RFDS	3 PROPOSED	30°	40.5±	N/A	N/A	6 PROPOSED
2	BETA	REFER TO CURRENT RFDS	3 PROPOSED	150°	46±	N/A	N/A	6 PROPOSED
3	GAMMA	REFER TO CURRENT RFDS	3 PROPOSED	270°	46±	N/A	N/A	6 PROPOSED

NOTE: REFER TO LATEST RF DATA SHEET (RFDS) FOR FINAL ANTENNA SETTINGS AND MODEL NUMBER.



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SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD
500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

DESIGNED BY: MS
DRAWN BY: TDC
SCALE: AS INDICATED

REVISIONS
NO. DATE BY CHR TDC

10/10/11 ISSUED FOR CONSTRUCTION
10/05/11 ISSUED FOR REVIEW
09/19/11 CHG SHELTER DESIGN
09/01/11 ISSUED FOR REVIEW

STATE OF MAINE
JAMES STROKE
LICENSED PROFESSIONAL ENGINEER
NO. 2674