



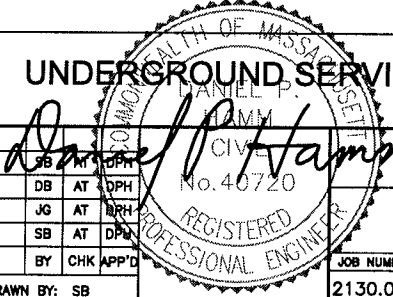





PROJECT INFORMATION		<div> SITE NUMBER: MA2130 SITE NAME: SOMERVILLE CIAMPA MANOR</div>																																													
<div>SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS SITE ADDRESS: 27 COLLEGE AVENUE SOMERVILLE, MA 02144 LATITUDE: 42.39722° N 42° 23' 50" N LONGITUDE: -71.12138° W -71° 07' 17" W JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES CURRENT USE: TELECOMMUNICATIONS FACILITY PROPOSED USE: TELECOMMUNICATIONS FACILITY NOC#: 800-638-2822</div>																																															
DRAWING INDEX		REV	VICINITY MAP		GENERAL NOTES																																										
T-1 TITLE SHEET		3	<div>DIRECTIONS TO SITE: FROM FRAMINGHAM, MA. START OUT GOING SOUTHWEST ON COCHITUATE RD/MA-30 W TOWARD WHITTIER ST. 0.2 MI MAKE A U-TURN ONTO COCHITUATE RD/MA-30 E. 0.3 MI MERGE ONTO I-90 E/MASS PIKE/MASSACHUSETTS TURNPIKE TOWARD I-95/BOSTON (PORTIONS TOLL). 6.7 MI TAKE THE I-95 N/RT-128 N/RT-30 EXIT, EXIT 14, TOWARD N.H.-MAINE/POINTS NORTH. 1.2 MI MERGE ONTO I-95 N/MA-128 N VIA THE EXIT ON THE LEFT TOWARD WALTHAM/PORTSMOUTH NH. 5.9 MI MERGE ONTO MA-2 E/CONCORD TURNPIKE VIA EXIT 29A TOWARD ARLINGTON/CAMBRIDGE. 6.4 MI TAKE THE US-3 N/RT-16 E EXIT ON THE LEFT TOWARD ARLINGTON/MEDFORD. 0.1 MI TURN SLIGHT LEFT ONTO US-3 N/MA-16 E/ALEWIFE BROOK PKWY. CONTINUE TO FOLLOW MA-16 E/ALEWIFE BROOK PKWY. 1.0 MI TURN RIGHT ONTO POWDER HOUSE BLVD. POWDER HOUSE BLVD IS 0.1 MILES PAST BROADWAY 0.9 MI ENTER NEXT ROUNDABOUT AND TAKE 2ND EXIT ONTO COLLEGE AVE. 0.4 MI 27 COLLEGE AVE IS ON THE LEFT. YOUR DESTINATION IS JUST PAST WINSLOW AVE</div> 		<div>1. 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. 2. 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. 3. 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.</div>																																										
GN-1 GENERAL NOTES		3																																													
C-1 PLOT PLAN		3																																													
A-1 ROOF & EQUIPMENT PLAN		3																																													
A-2 DETAILS AND ELEVATION		3																																													
A-3 ELEVATIONS		3																																													
G-1 PLUMBING DIAGRAM & DETAILS		3																																													
					<div>72 HOURS  BEFORE YOU DIG  CALL TOLL FREE 888-DIG-SAFE</div>																																										
					<div>UNDERGROUND SERVICE ALERT </div>																																										
<div> 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 2-101 N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586</div>		<div> 22 KEEWAYDIN DRIVE SALEM, NH 03079</div>		<div>SITE NUMBER: MA2130 SITE NAME: SOMERVILLE CIAMPA MANOR 27 COLLEGE AVENUE SOMERVILLE, MA 02144 MIDDLESEX COUNTY</div>		<div> 550 COCHITUATE ROAD FRAMINGHAM, MA 01701</div>		<table><tr><td>3</td><td>12/15/10</td><td>ISSUED FOR ZONING</td><td>SB</td><td>AT</td><td>DPH</td></tr><tr><td>2</td><td>10/12/10</td><td>ISSUED FOR ZONING</td><td>DB</td><td>AT</td><td>DPH</td></tr><tr><td>1</td><td>09/28/10</td><td>ISSUED FOR ZONING</td><td>JG</td><td>AT</td><td>DPH</td></tr><tr><td>A</td><td>09/21/10</td><td>ISSUED FOR REVIEW</td><td>SB</td><td>AT</td><td>DPH</td></tr><tr><td>NO.</td><td>DATE</td><td>REVISIONS</td><td>BY</td><td>CHK</td><td>APP'D</td></tr><tr><td colspan="2">SCALE: AS SHOWN</td><td>DESIGNED BY: AT</td><td colspan="2">DRAWN BY: SB</td><td></td></tr></table>		3	12/15/10	ISSUED FOR ZONING	SB	AT	DPH	2	10/12/10	ISSUED FOR ZONING	DB	AT	DPH	1	09/28/10	ISSUED FOR ZONING	JG	AT	DPH	A	09/21/10	ISSUED FOR REVIEW	SB	AT	DPH	NO.	DATE	REVISIONS	BY	CHK	APP'D	SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: SB			<div>AT&T TITLE SHEET JOB NUMBER: 2130.01 DRAWING NUMBER: T-1 REV: 3</div>	
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GROUNDING NOTES

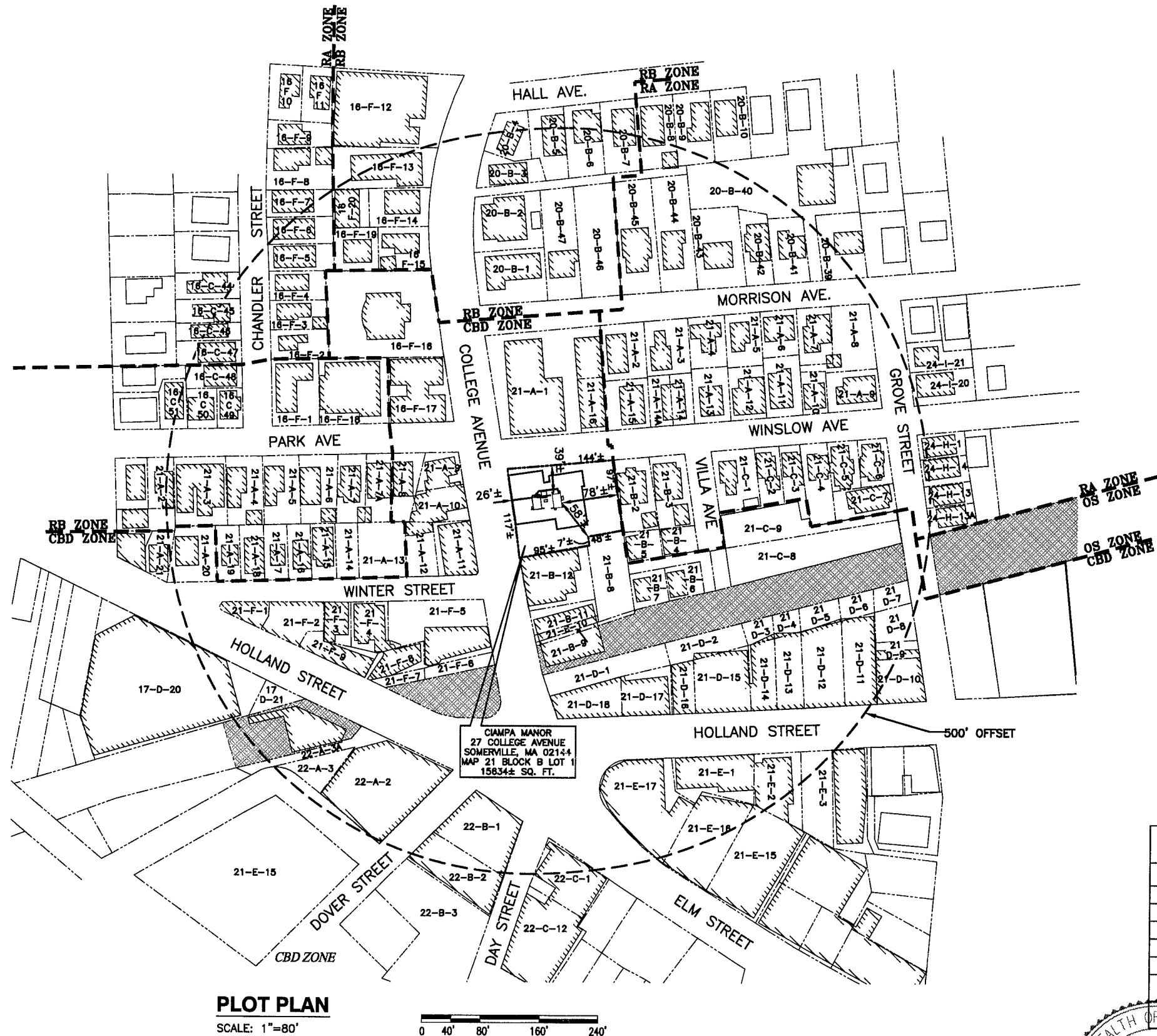
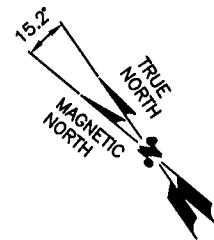
1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES					
<p>1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:</p> <p>CONTRACTOR - SAI</p> <p>SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)</p> <p>OWNER - AT&T MOBILITY</p>			<p>15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.</p>		
<p>2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.</p>			<p>16. CONSTRUCTION SHALL COMPLY WITH UMTS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."</p>		
<p>3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.</p>			<p>17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.</p>		
<p>4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.</p>			<p>18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.</p>		
<p>5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.</p>			<p>19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.</p>		
<p>6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.</p>			<p>20. APPLICABLE BUILDING CODES:</p> <p>SUBCONTRACTOR'S 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.</p> <p>BUILDING CODE: MA STATE BUILDING CODE 780 CMR 7TH EDITION</p> <p>ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS</p> <p>LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS</p>		
<p>7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.</p>			<p>SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:</p> <p>AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;</p> <p>AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)</p> <p>MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;</p> <p>TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL</p> <p>ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.</p>		
<p>8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.</p>			<p>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.</p>		
<p>9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.</p>					
<p>10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.</p>					
<p>11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.</p>					
<p>12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.</p>					
<p>13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.</p>					
<p>14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.</p>					
ABBREVIATIONS					
AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCIVER STATION			TBR	TO BE REMOVED
EXISTING	EXISTING			TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE		
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED	TYP	TYPICAL



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

3	12/15/10	ISSUED FOR ZONING	SB	AT	DPH		AT&T
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SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: SB		JOB NUMBER	DRAWING NUMBER	REV
					2130.01	GN-1	3



- NOTES:
1. PLOT PLAN BASED ON PLANS BY CITY OF SOMERVILLE, MA ASSESSOR MAPS.
 2. SETBACKS ARE TAKEN FROM THE CLOSEST POINT OF EQUIPMENT TO PROPERTY LINES.
 3. SITE SURVEY NOT PERFORMED BY HUDSON DESIGN GROUP LLC.

PLOT PLAN

SCALE: 1"=80'



ZONING SUMMARY TABLE

ZONING DISTRICT: CENTRAL BUSINESS DISTRICT		
ASSESSORS MAP: MAP 21 BLOCK B LOT 1		
PROPOSED USE: WIRELESS COMMUNICATION FACILITY		
DIMENSION:	REQUIRED	PROVIDED
LOT AREA	N/A	N/A
LOT FRONTAGE	N/A	N/A
FRONT YARD SETBACK*	N/A	26± & 39± FT
SIDE YARD SETBACK*	18.33 FT	58± & 78± FT
REAR YARD SETBACK*	18.33 FT	N/A
MIN. ROOF EDGE SETBACK TO ANTENNA	10 FT	25 FT

* DIMENSIONS MEASURED FROM THE CLOSEST POINT OF EQUIPMENT TO NEAREST LOT LINE.

Hudson
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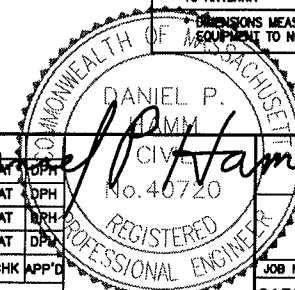


22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: MA2130
SITE NAME: SOMERVILLE
CIAMPA MANOR
27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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PLOT PLAN

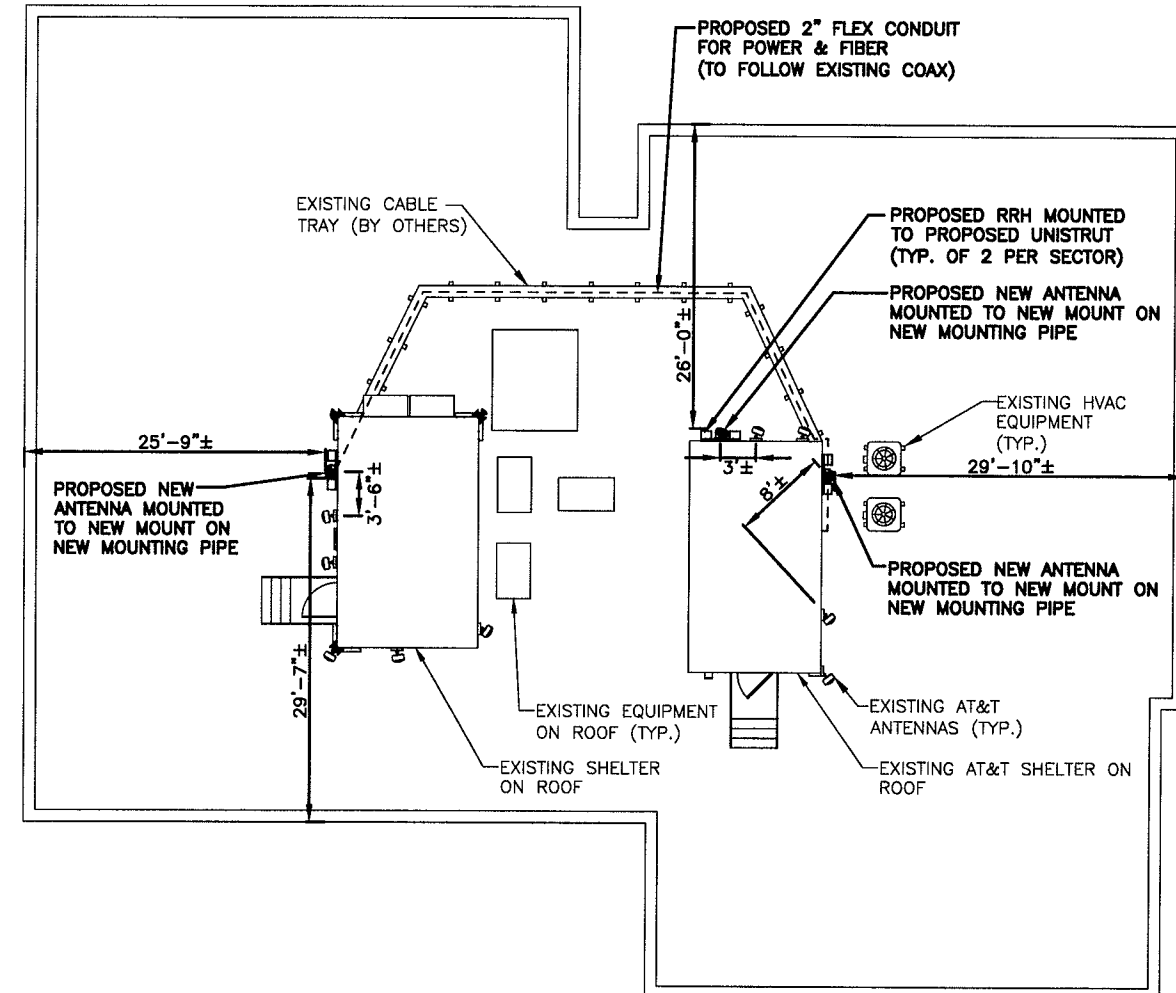
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ALPHA SECTOR
30°

NOTE:
CONTRACTOR TO COORDINATE
BACKER PLATE LOCATIONS WITH
EXISTING EQUIPMENT INSIDE
SHELTER TO AVOID ANY CONFLICTS.

GAMMA SECTOR
270°

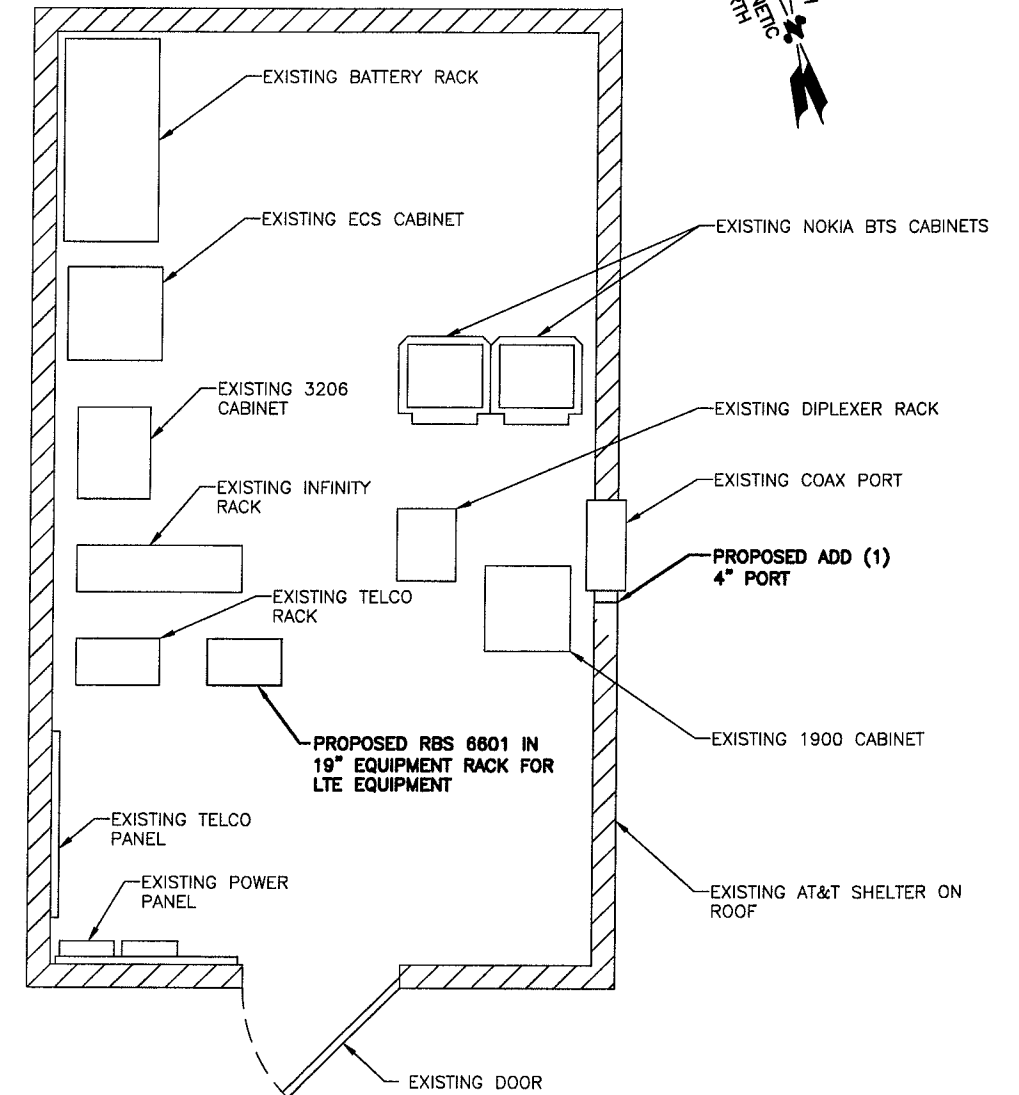
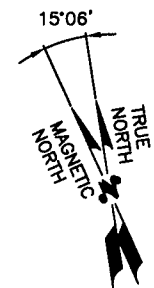


ROOF PLAN

SCALE: 1/8"=1'-0"

0 4'-0" 8'-0" 16'-0" 24'-0"

BETA SECTOR
150°



EQUIPMENT PLAN

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

0 1'-0" 2'-0" 4'-0" 6'-0"

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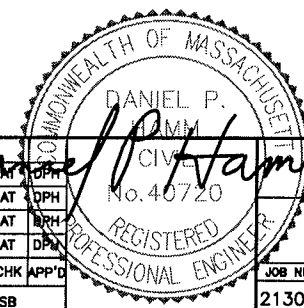


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ROOF & EQUIPMENT PLAN

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NOTE:

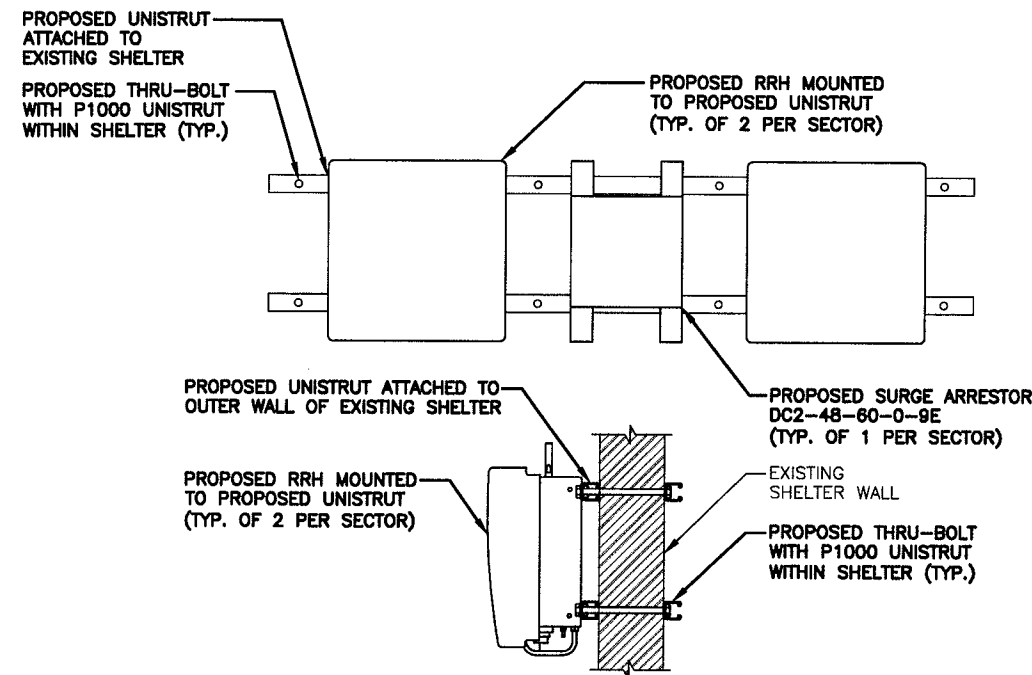
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA CONFIGURATION.

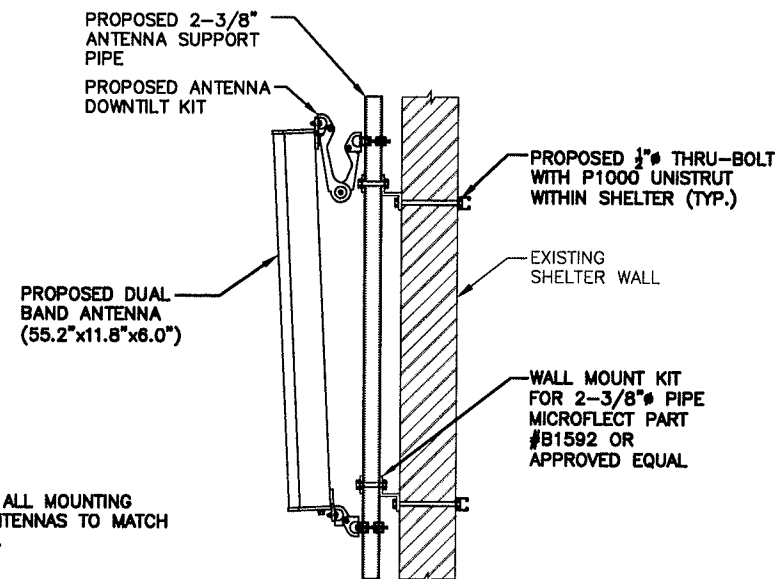
NOTE:

PAINT ALL ANTENNAS, COMPONENTS, CABLE TRAYS & MOUNTING HARDWARE TO MATCH EXISTING SHELTER.



PROPOSED RRH MOUNTING DETAIL

SCALE: N.T.S.

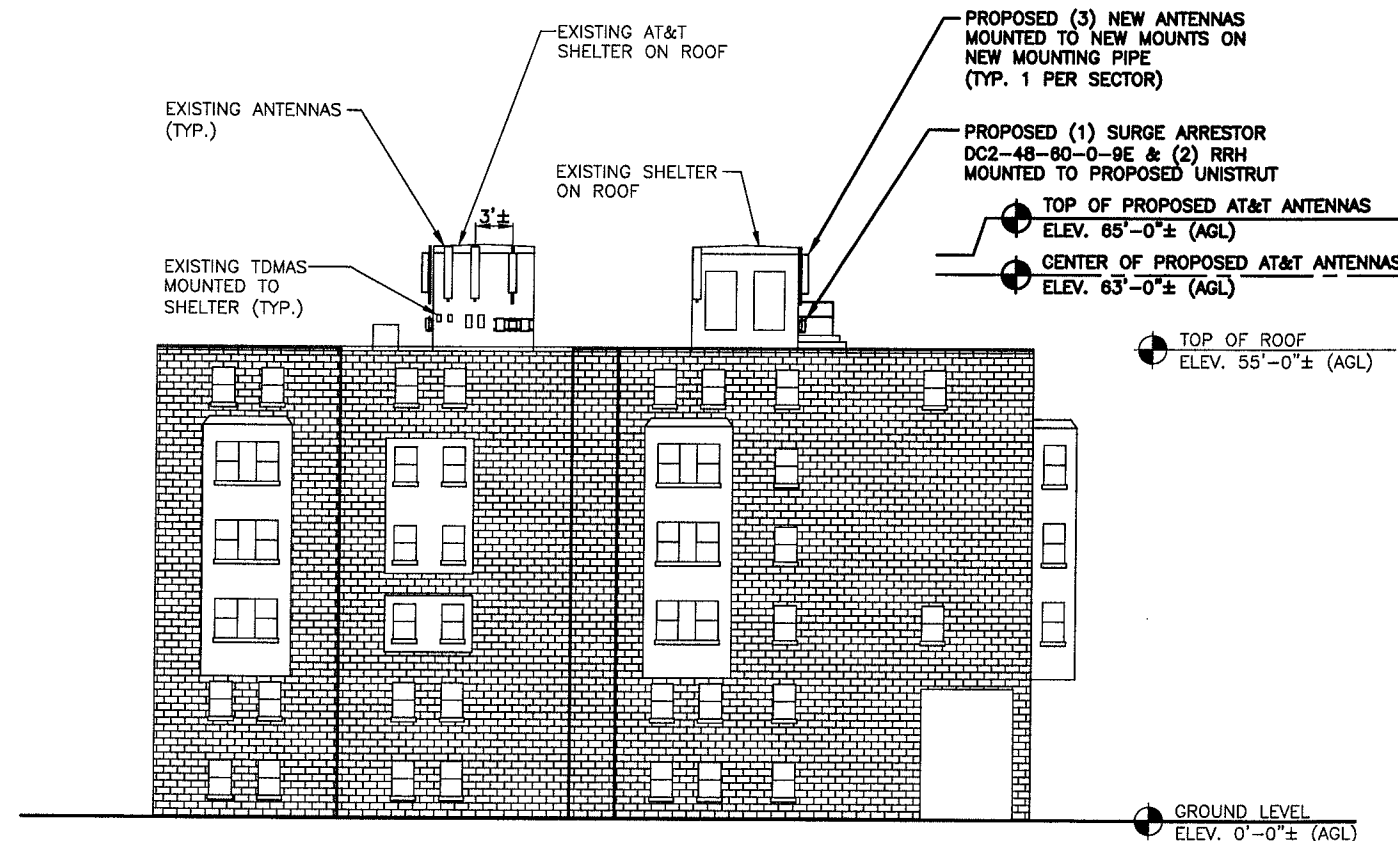


NOTES:

PRIME AND PAINT ALL MOUNTING BRACKETS AND ANTENNAS TO MATCH EXISTING SHELTER.

PROPOSED ANTENNA DETAIL

SCALE: N.T.S.



NORTH ELEVATION

SCALE: 3/32"=1'-0"

0 5'-4" 10'-8" 21'-4" 32'-0"

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SAT
communications

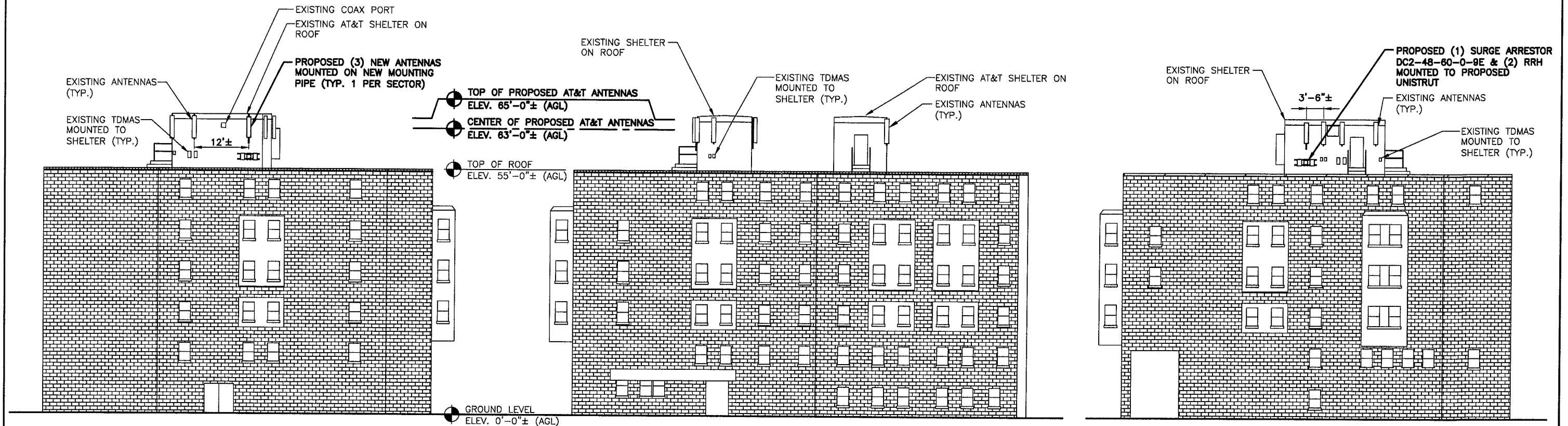
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EAST ELEVATION

SCALE: 3/32"=1'-0"



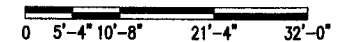
SOUTH ELEVATION

SCALE: 3/32"=1'-0"



WEST ELEVATION

SCALE: 3/32"=1'-0"



Hudson
Design Group, Inc.
1400 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

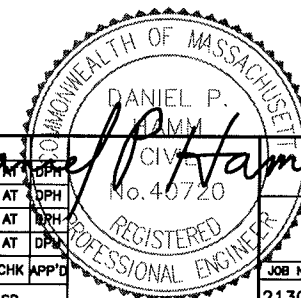


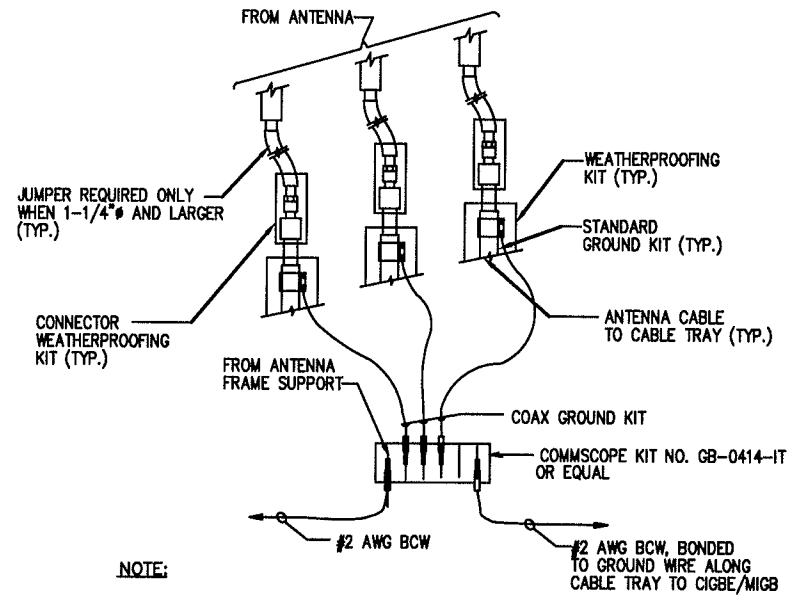
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: MA2130
SITE NAME: SOMERVILLE
CIAMPA MANOR
27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

3	12/15/10	ISSUED FOR ZONING	SB	AT	DPH	AT&T
2	10/12/10	ISSUED FOR ZONING	DB	AT	DPH	ELEVATIONS
1	08/28/10	ISSUED FOR ZONING	JG	AT	DPH	
A	09/21/10	ISSUED FOR REVIEW	SB	AT	DPH	
NO.	DATE	REVISIONS	BY	CHK	APP'D	
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: SB			
JOB NUMBER		DRAWING NUMBER		REV		
2130.01		A-3		3		



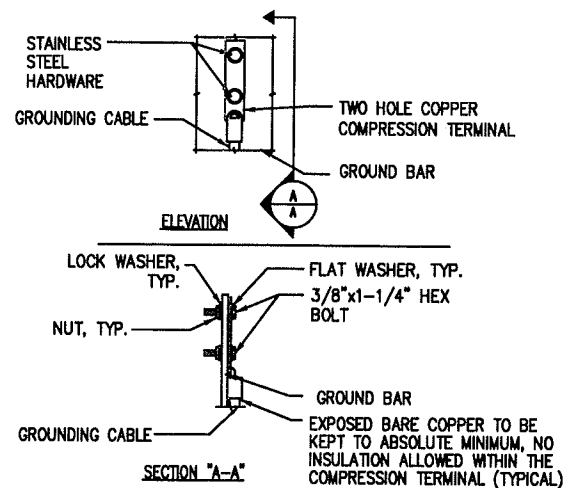


NOTE:

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

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

1
—
N.T.S.



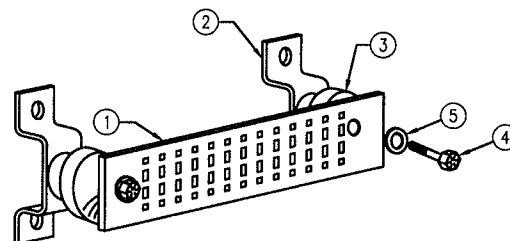
NOTE:

- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
- CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

TYPICAL GROUND BAR CONNECTION DETAIL

2
—
N.T.S.

WIRELESS SOLUTIONS INC.			
NO.	REQ.	PART NO.	DESCRIPTION
①	1	HLGB-0420-IS	SOLID GND. BAR (20"x4"x1/4")
②	2	—	WALL MTG. BRKT.
③	2	—	INSULATORS
④	4	—	5/8"-11x1" H.H.C.S.
⑤	4	—	5/8 LOCKWASHER



GROUND BAR - DETAIL

4
—
N.T.S.

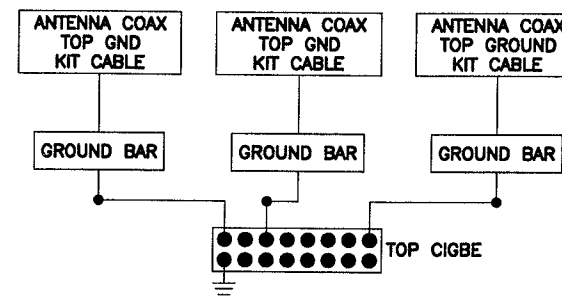
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

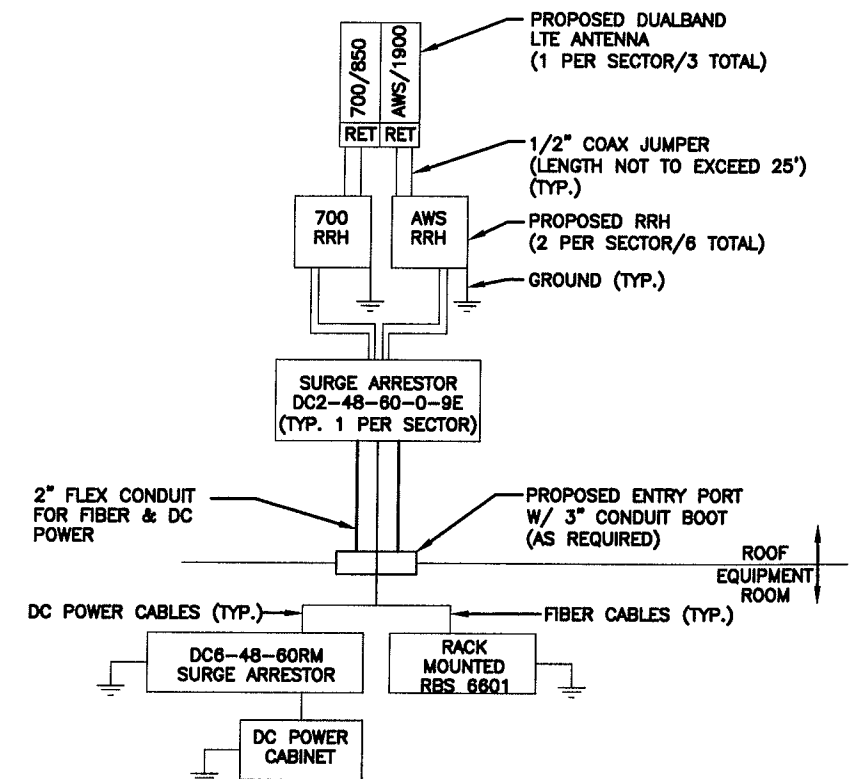
SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)



NOTES:

- BOND ANTENNA GROUNDING KIT CABLE TO TOP CIGBE.
- BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE.

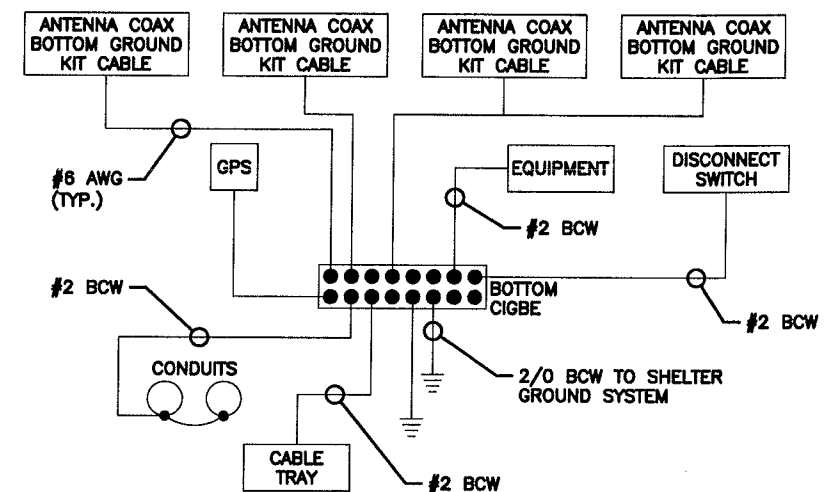


NOTES:

- CONTRACTOR TO CONFIRM ALL PARTS.
- INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.

PLUMBING DIAGRAM

3
—
N.T.S.



SCHEMATIC GROUNDING DIAGRAM

5
—
N.T.S.

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SAT
communications

22 KEEWAYDIN DRIVE
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2	10/12/10	ISSUED FOR ZONING	DB	AT	DPH	
1	08/28/10	ISSUED FOR ZONING	JG	AT	DPH	
A	09/21/10	ISSUED FOR REVIEW	SB	AT	DPH	
NO.	DATE	REVISIONS	BY	CHK	APP'D	
SCALE:	AS SHOWN	DESIGNED BY: AT	DRAWN BY: SB			
JOB NUMBER	2130.01	DRAWING NUMBER	G-1			REV 3

LOCUS MAP



① PHOTO LOCATION

FOR VISUAL REFERENCE ONLY.
ACTUAL VISIBILITY IS DEPENDANT
UPON WEATHER CONDITIONS, SEASON,
SUNLIGHT, AND VIEWER LOCATION



PHOTO LOCATIONS
NOT TO SCALE

REV3: 11/22/10
REV2: 10/14/10
REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144

 **at&t**
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

EXISTING/PROPOSED CONDITIONS - EQUIPMENT NOT VISIBLE



PHOTO LOCATION # 1

VIEW SOUTHEAST FROM PARK AVE./COLLEGE AVE. INTERSECTION

DATE OF PHOTO: 09/03/10

REV3: 11/22/10

REV2: 10/14/10

REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

EXISTING CONDITIONS



PHOTO LOCATION # 2
VIEW NORTHEAST FROM WINTER AVE./COLLEGE AVE.
DATE OF PHOTO: 09/03/10

REV3: 11/22/10
REV2: 10/14/10
REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

PROPOSED CONDITIONS



PROPOSED (3) NEW ANTENNAS MOUNTED
TO NEW MOUNTS ON NEW MOUNTING PIPE
(TYP. 1 PER SECTOR)



PHOTO LOCATION # 2

VIEW NORTHEAST FROM WINTER AVE./COLLEGE AVE.

DATE OF PHOTO: 09/03/10

REV3: 11/22/10
REV2: 10/14/10
REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144

 **at&t**
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

EXISTING CONDITIONS



PHOTO LOCATION # 3

VIEW WEST FROM WINSLOW AVE./VILLA AVE, INTERSECTION

DATE OF PHOTO: 09/03/10

REV3: 11/22/10

REV2: 10/14/10

REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144

 **at&t**
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

PROPOSED CONDITIONS



PROPOSED (3) NEW ANTENNAS MOUNTED
TO NEW MOUNTS ON NEW MOUNTING PIPE
(TYP. 1 PER SECTOR)



PHOTO LOCATION # 3

VIEW WEST FROM WINSLOW AVE./VILLA AVE, INTERSECTION

DATE OF PHOTO: 09/03/10

REV3: 11/22/10

REV2: 10/14/10

REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

EXISTING CONDITIONS



PHOTO LOCATION # 4
VIEW SOUTH FROM MORRISON AVE.
DATE OF PHOTO: 09/03/10

REV3: 11/22/10
REV2: 10/14/10
REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144

 **at&t**
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS

PROPOSED CONDITIONS



PROPOSED (3) NEW ANTENNAS MOUNTED
TO NEW MOUNTS ON NEW MOUNTING PIPE
(TYP. 1 PER SECTOR)



PHOTO LOCATION # 4
VIEW SOUTH FROM MORRISON AVE.
DATE OF PHOTO: 09/03/10

REV3: 11/22/10
REV2: 10/14/10
REV1: 10/01/10

SITE NO: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
ADDRESS: 27 COLLEGE AVENUE
SOMERVILLE, MA 02144



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE TYPE: ROOFTOP

DATE:
09/09/10

DRAWN BY: DB

SCALE: NTS