

# SOMERVILLE HOSPITAL

230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

SITE NUMBER: 4BN0112-E

SITE TYPE: ROOFTOP

## CITY OF SOMERVILLE

FIRE DEPARTMENT

POLICE DEPARTMENT

DEPARTMENT OF PUBLIC WORKS

ZONING BOARD

PLANNING BOARD

T-MOBILE NORTHEAST LLC

15 COMMERCE WAY  
NORTON, MA 02766

OFFICE: (508) 286-2700  
FAX: (508) 286-2893

**MIXTON**  
MAXTON TECHNOLOGY, INC.

**BAY STATE  
DESIGN**

BAY STATE DESIGN, INC.  
Architects - Engineers  
241 Boston Post Rd. West  
Mortborough, MA 01752  
Phone: 508-229-4100  
Fax: 508-485-5321

## APPROVALS

LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
R.F. \_\_\_\_\_  
ZONING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
A/E \_\_\_\_\_



ENGINEER

PROJECT NO: 2912.066

DRAWN BY: JRK

CHECKED BY: K.B.

## SUBMITTALS

REV D	12-03-09	ZONING FINAL
REV C	10-26-09	ZONING
REV B	10-20-09	ZONING
REV A	10-07-09	ZONING

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SITE

4BN0112-E  
SOMERVILLE  
HOSPITAL  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

SHEET TITLE

TITLE SHEET

SHEET NUMBER

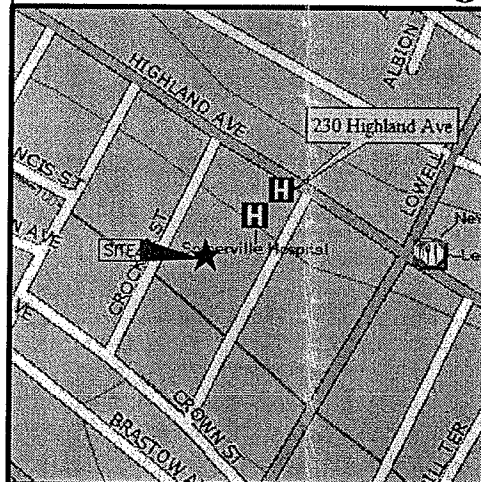
T-1

## GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL FEDERAL AND LOCAL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
15. THE CONTRACTOR SHALL NOTIFY THE LESSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE REPRESENTATIVE.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455
18. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. THE PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

## VICINITY MAP

SCALE: 1" = 200'



## DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

## SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	PLOT PLAN	0
C-2	500' RADIUS MAP	0
Z-1	ROOFTOP PLANS WITH EQUIPMENT LAYOUT DETAIL	0
Z-2	ELEVATION & DETAILS	0

## PROJECT SUMMARY

SITE NUMBER: 4BN0112-E  
SITE NAME: SOMERVILLE HOSPITAL  
SITE ADDRESS: 230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143  
ASSESSOR'S PARCEL NO.: MAP 35, BLOCK D, LOT 1  
ZONING DISTRICT: (RA) RESIDENCE A  
JURISDICTION: CITY OF SOMERVILLE  
CONSTRUCTION TYPE: ROOFTOP  
PROPERTY OWNER: SOMERVILLE, HOSPITAL INC.  
C/O CAMBRIDGE PUBLIC HEALTH COMMISSION  
1493 CAMBRIDGE STREET  
CAMBRIDGE, MA 02139  
CONTACT: JIM COLLINS  
(617) 806-8523  
APPLICANT: T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
ELECTRICAL ENGINEER: BAY STATE DESIGN



MAP 35, BLOCK D, LOT 1  
CAMBRIDGE HEALTH ALLIANCE  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143  
PARCEL SIZE: 96,679 ± SQ. FT.

NOTES:  
1. PLOT PLAN IS NOT THE RESULT OF A SURVEY. IT IS BASED ON FIELD MEASUREMENTS AND SCALED ASSESSORS MAPS. ALL INFORMATION SHOWN IS APPROXIMATE ONLY AND SUBJECT TO ANY CONDITIONS THAT A SURVEY MAY REVEAL.  
2. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING SITE CONDITIONS AND THAT WHICH IS REPRESENTED HERE.

SOURCE:  
1. PLAN BASED ON CITY OF SOMERVILLE TAX MAP #35 & #43

### GENERAL NOTES

- NOTES:
1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
  2. THE PROJECT OWNER'S PCS 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. THE PROJECT OWNER'S BASE TRANSMISSION STATION (BTS) CABINET IS A WEATHER RESISTANCE, VANDAL RESISTANT STEEL CABINET CONTAINING RECTIFIERS, AMPLIFIERS, RADIOS, AND OTHER INTEGRATED ELECTRONIC CONTROL EQUIPMENT. THE BTS IS ENVIRONMENTALLY CONTROLLED BY A SELF-CONTAINED AC POWERED HEATING AND COOLING SYSTEM USING CFC-FREE THERMAL TRANSFER COMPOUNDS. MANUFACTURER'S SPECIFICATIONS INDICATE THAT AT FULL LOAD CONDITIONS, MAXIMUM ACOUSTICAL NOISE LEVELS ARE 50 DB(A) AT A DISTANCE OF 13 FEET AND 40 DB(A) AT A DISTANCE OF 46 FEET. BATTERY BACKUP FOR EMERGENCY STANDBY POWER IS CONTAINED WITHIN EACH SEALED BTS CABINET AND CONSISTS OF EIGHT 12-VOLT, CLOSED-CELL DC BATTERIES PLUS A SEPARATE BATTERY BACKUP UNIT WITH SIXTEEN BATTERIES (SITE TOTAL OF 40 BATTERIES). BATTERIES ARE LEAD-ACID RECHARGEABLE STANDBY INDUSTRIAL POWER CELLS MANUFACTURED TO MEET ENVIRONMENTAL QUALITY AND RUGGEDNESS STANDARDS OF THE INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA). THE BATTERY CHARGING SYSTEM IS COMPUTER-CONTROLLED AND THE EQUIPMENT CABINET IS REMOTELY MONITORED AT PROJECT OWNER'S NETWORK OPERATIONS CONTROL CENTER 24-HOURS A DAY, 7 DAYS A WEEK FOR FAULTS AND ALARMS.
  4. THE DESIGN OF THE ANTENNA MOUNTING HARDWARE AND STRUCTURAL REINFORCEMENT OF EXISTING BUILDING ROOF/FLOOR (IF NECESSARY) TO SUPPORT THE BTS EQUIPMENT CABINETS WILL MEET THE ANSI/EIA/TIA-222G STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILS CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS WILL BE PREPARED BY PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
  5. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS .007.
  6. PAINT ANTENNAS, MOUNTING HARDWARE, AND EXPOSED VERTICAL CABLE TRAY TO MATCH EXISTING BUILDING.
  7. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET MANDATED ACCURACY SPECIFICATIONS.
  8. ALL MEASUREMENTS ARE SHOWN IN FEET ± UNLESS OTHERWISE NOTED.
  9. PLOT PLAN MEASUREMENTS ARE APPROXIMATE AND BASED ON SCALED ASSESSORS MAPS AND OTHER AVAILABLE INFORMATION.
  10. ALL SETBACKS SHOWN FROM PROPOSED EQUIPMENT TO PROPERTY LINES ARE APPROXIMATE AND SHOULD BE USED FOR REFERENCE ONLY.

### ZONING INFORMATION

DIMENSION REQUIREMENTS:	REQUIRED	PROPOSED±
ANTENNAS SETBACKS:		
FRONT YARD SETBACK:	15'	107'±
SIDE YARD SETBACK:	20'	197'±
REAR YARD SETBACK:	20'	22'±
MAXIMUM ZONING HEIGHT:	104'	96'±

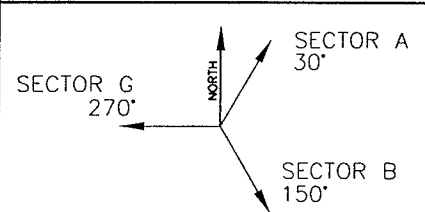
\* DIMENSIONS MEASURED FROM EDGE OF PROPOSED EQUIPMENT PERPENDICULAR TO NEAREST LOT LINE.

APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
OWNER:	SOMERVILLE HOSPITAL INC. C/O CAMBRIDGE PUBLIC HEALTH COMMISSION 1493 CAMBRIDGE STREET CAMBRIDGE, MA 02139
LOT SIZE:	96,679 ± SQ. FT.
LOT NUMBER:	MAP 35, BLOCK D, LOT 1
ZONING DISTRICT:	(RA) RESIDENCE A
JURISDICTION:	CITY OF SOMERVILLE, MA
TAX ID:	35-D-1

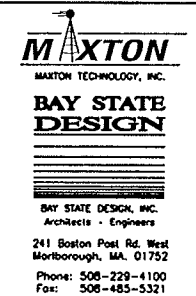
### LEGEND

---	PROPERTY LINE - SUBJECT PARCEL
---	PROPERTY LINE - ADJUTERS
---	ZONING DISTRICT BOUNDARY LINE
	EXISTING BUILDINGS
35-D-1-A	ASSESSORS PARCEL I.D. NO.

### ANTENNA ORIENTATION KEY

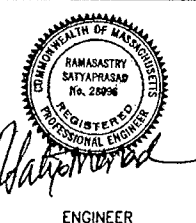


T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY  
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OFFICE: (508) 286-2700  
FAX: (508) 286-2893



### APPROVALS

LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
R.F. \_\_\_\_\_  
ZONING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
A/E \_\_\_\_\_



PROJECT NO: 2912.066  
DRAWN BY: JRK  
CHECKED BY: K.B.

### SUBMITTALS

REV	DATE	DESCRIPTION
REV A	12-03-09	ZONING FINAL
REV C	10-26-09	ZONING
REV B	10-20-09	ZONING
REV A	10-07-09	ZONING

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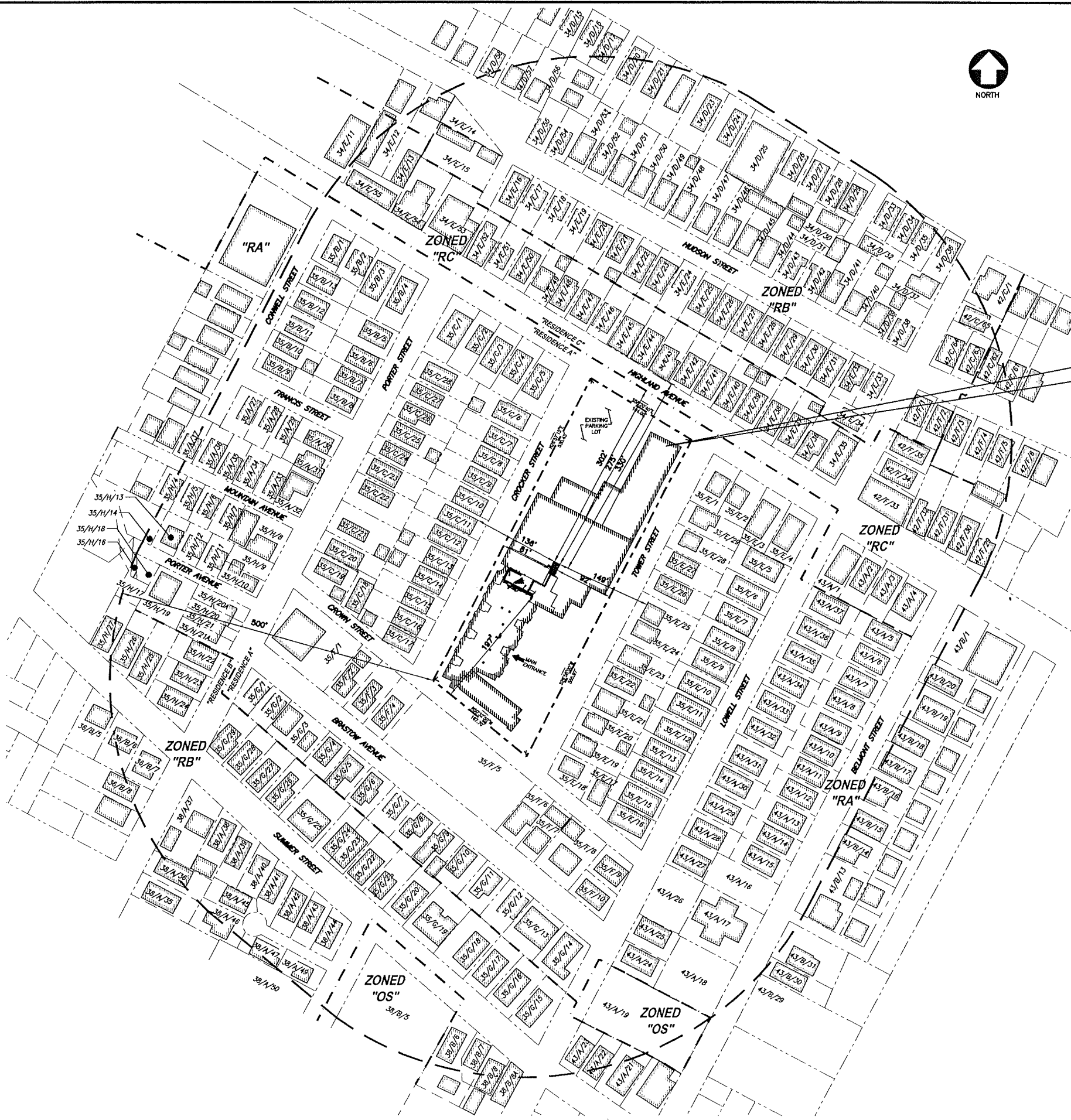
SITE  
4BN0112-E  
SOMERVILLE  
HOSPITAL  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

SHEET TITLE  
PLOT PLAN

SHEET NUMBER  
C-1

PLOT PLAN  
SCALE: 1" = 40'





MAP 35, BLOCK D, LOT 1  
CAMBRIDGE HEALTH ALLIANCE  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143  
PARCEL SIZE: 96,679± SQ. FT.



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2. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING SITE CONDITIONS AND THAT WHICH IS REPRESENTED HERE.

SOURCE:  
1. PLAN BASED ON CITY OF SOMERVILLE TAX MAPS #34, 35, 36, 38, 42 & 43

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ENGINEER

PROJECT NO: 2912.066

DRAWN BY: JRK

CHECKED BY: K.B.

SUBMITTALS

REV	DATE	DESCRIPTION
REV 0	12-03-09	ZONING FINAL
REV C	10-26-08	ZONING
REV B	10-20-09	ZONING
REV A	10-07-09	ZONING

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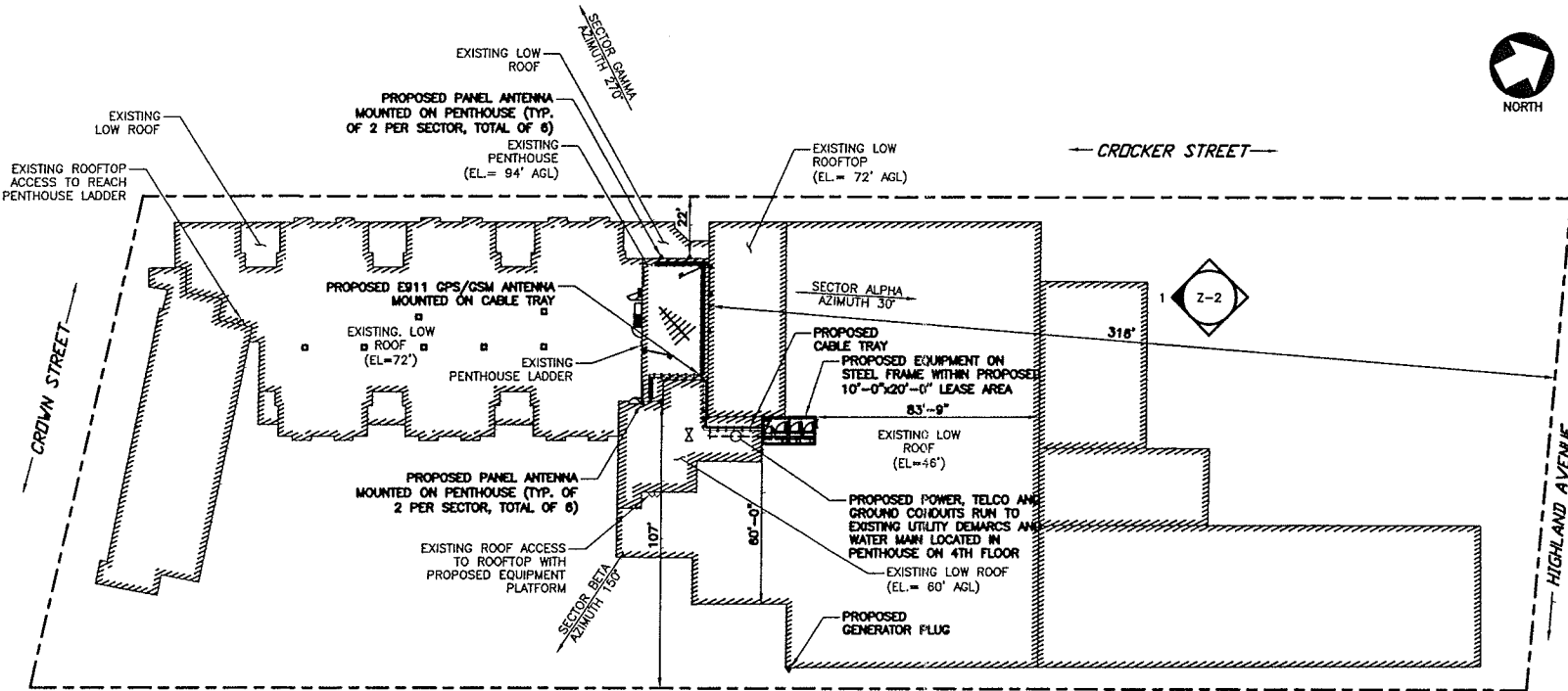
SITE  
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SOMERVILLE  
HOSPITAL  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

SHEET TITLE  
500' RADIUS MAP

SHEET NUMBER  
C-2

NOTES

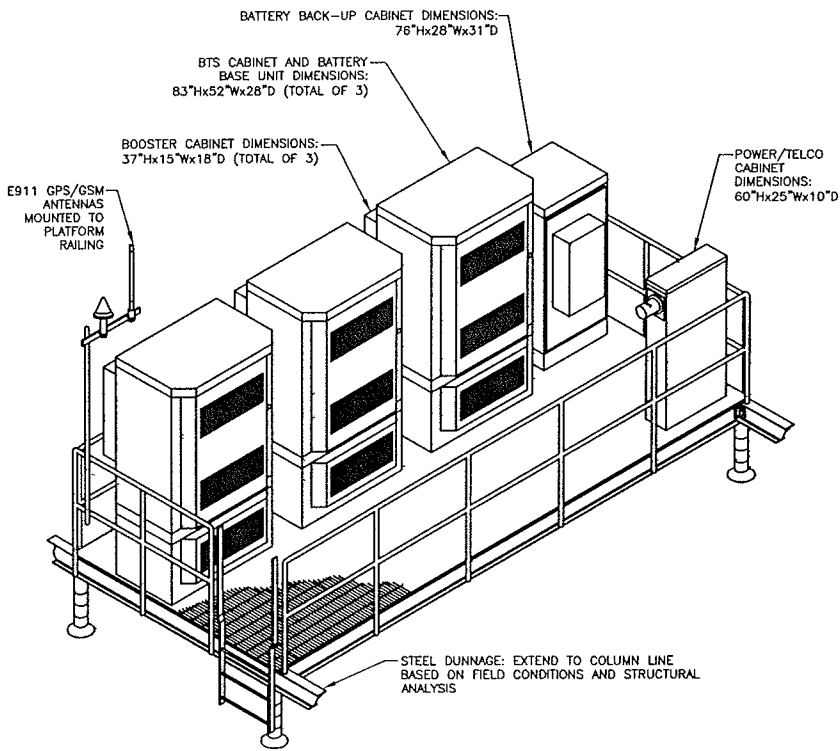
1. ALL DIMENSIONS SHOWN THUS (...±) ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH OWNER PRIOR TO CONSTRUCTION.
2. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCIES BEFORE STARTING CONSTRUCTION.
3. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
4. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
5. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. EQUIPMENT WILL BE INDEPENDENTLY POWERED WITH SEPARATE METER.
7. ALL (E) ACTIVE SEWER, 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THEIR WORKING CREW.
8. ALL (E) INACTIVE SEWER, 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 UTILITY COMPANY ENGINEERING.
9. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH.
10. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



ROOFTOP PLAN

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

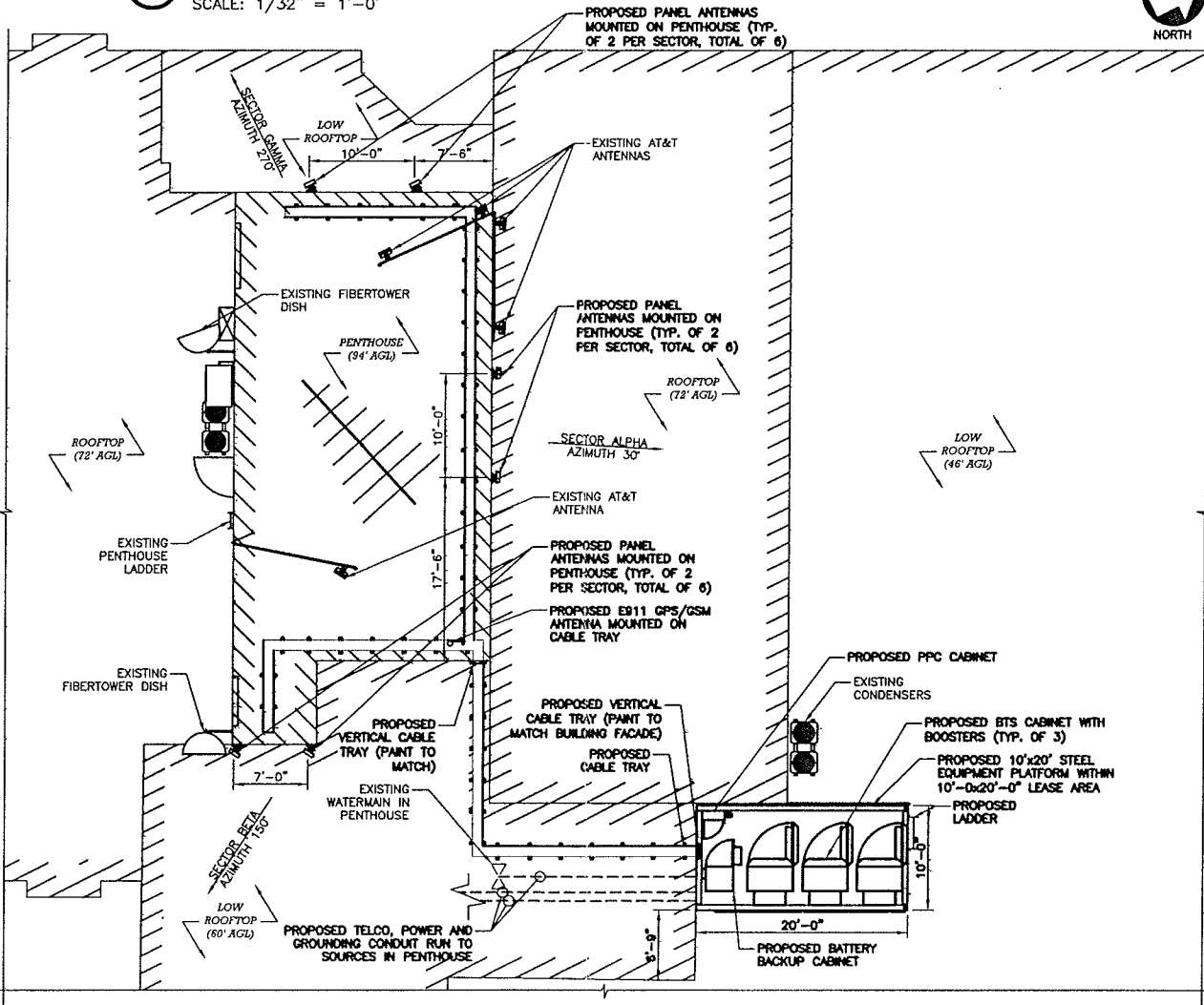
SCALE: 1/32" = 1'-0"



ISOMETRIC EQUIPMENT LAYOUT DETAIL

SCALE: N.T.S.

2



PARTIAL ROOF PLAN

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

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

PROPOSED ANTENNAS AND VERTICAL CABLE TRAYS TO BE PAINTED TO MATCH COLOR OF BUILDINGS FACADE (APPLICANT SHALL WORK WITH PLANNING STAFF TO SELECT COLORS)

3

ABBREVIATIONS

ADJ	ADJUSTABLE	NTS	NOT TO SCALE
APPROX	APPROXIMATE	OC	ON CENTER
BTS	BASE TRANSMISSION STATION	OPP	OPPOSITE
C	CONDUIT	(P)	PROPOSED
CMU	CONCRETE MASONRY UNIT	SF	SQUARE FOOT
CONC	CONCRETE	SHT	SHEET
CONT	CONTINUOUS	SIM	SIMILAR
CJ	CONSTRUCTION JOINT	STL	STEEL
DIA	DIAMETER	TOC	TOP OF CONCRETE
DWG	DRAWING	TOM	TOP OF MASONRY
EGB	EQUIPMENT GROUND BAR	TYP	TYPICAL
EA	EACH	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	UON	UNLESS OTHERWISE NOTED
EL	ELEVATION	WWF	WELDED WIRE FABRIC
EQ	EQUAL	W/	WITH
EQUIP	EQUIPMENT	PCS	PERSONAL COMMUNICATIONS SERVICES
(E)	EXISTING		
EXT	EXTERIOR	A-1	ANTENNA MARK NO.
FF	FINISHED FLOOR		
FG	FINISHED GRADE		
GA	GAUGE	PL	PLATE
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	&	AND
GWB	GYPSSUM WALLBOARD	AT	AT
LG	LONG		
LNA	LOW NOISE AMPLIFIER		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		

SYMBOLS AND MATERIALS

NEW ANTENNA	GROUT OR PLASTER
EXISTING ANTENNAS	GWB
ASPHALT	(E)CONSTRUCTION
NEW ACCESS EASEMENT	CONCRETE
CONCRETE	EARTH
ELECTRIC BOX	GRAVEL
LIGHT POLE	PLYWOOD
FND. MONUMENT	SAND
SPOT ELEVATION	WOOD CONT.
SET POINT	WOOD BLOCKING
REVISION	STEEL
GRID REFERENCE	CENTER LINE
DETAIL REFERENCE	PROPERTY LINE
DETAIL REFERENCE	STEPPED FOOTING
DETAIL REFERENCE	MATCH LINE
DETAIL REFERENCE	WORK POINT
DETAIL REFERENCE	GROUND WIRE
DETAIL REFERENCE	COAXIAL CABLE
DETAIL REFERENCE	CHAIN LINK FENCE
DETAIL REFERENCE	WATER MAIN

- NOTES:
1. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING SITE CONDITIONS AND THAT WHICH IS REPRESENTED HERE.
2. PROPOSED DESIGN IS SUBJECT TO ANY RELEVANT STRUCTURAL INFORMATION THAT MAY BE REVEALED UPON EXPOSURE OF EXISTING MEMBERS. ENGINEER TO BE PRESENT DURING THIS PHASE OF CONSTRUCTION.

T-MOBILE NORTHEAST LLC

15 COMMERCE WAY  
NORTON, MA 02766

OFFICE: (508) 286-2700  
FAX: (508) 286-2893



MXTON TECHNOLOGY, INC.  
BAY STATE DESIGN

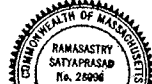
Architects • Engineers

241 Boston Post Rd. West  
Marlborough, MA 01782

Phone: 508-229-4100  
Fax: 508-485-5321

APPROVALS

LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
R.F. \_\_\_\_\_  
ZONING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
A/E \_\_\_\_\_



Anasasthy Satyaprasad  
REGISTERED PROFESSIONAL ENGINEER

ENGINEER

PROJECT NO: 2912.066

DRAWN BY: JRK

CHECKED BY: K.B.

SUBMITTALS

REV	DATE	DESCRIPTION
REV 0	12-03-09	ZONING FINAL
REV C	10-26-09	ZONING
REV B	10-20-09	ZONING
REV A	10-07-09	ZONING

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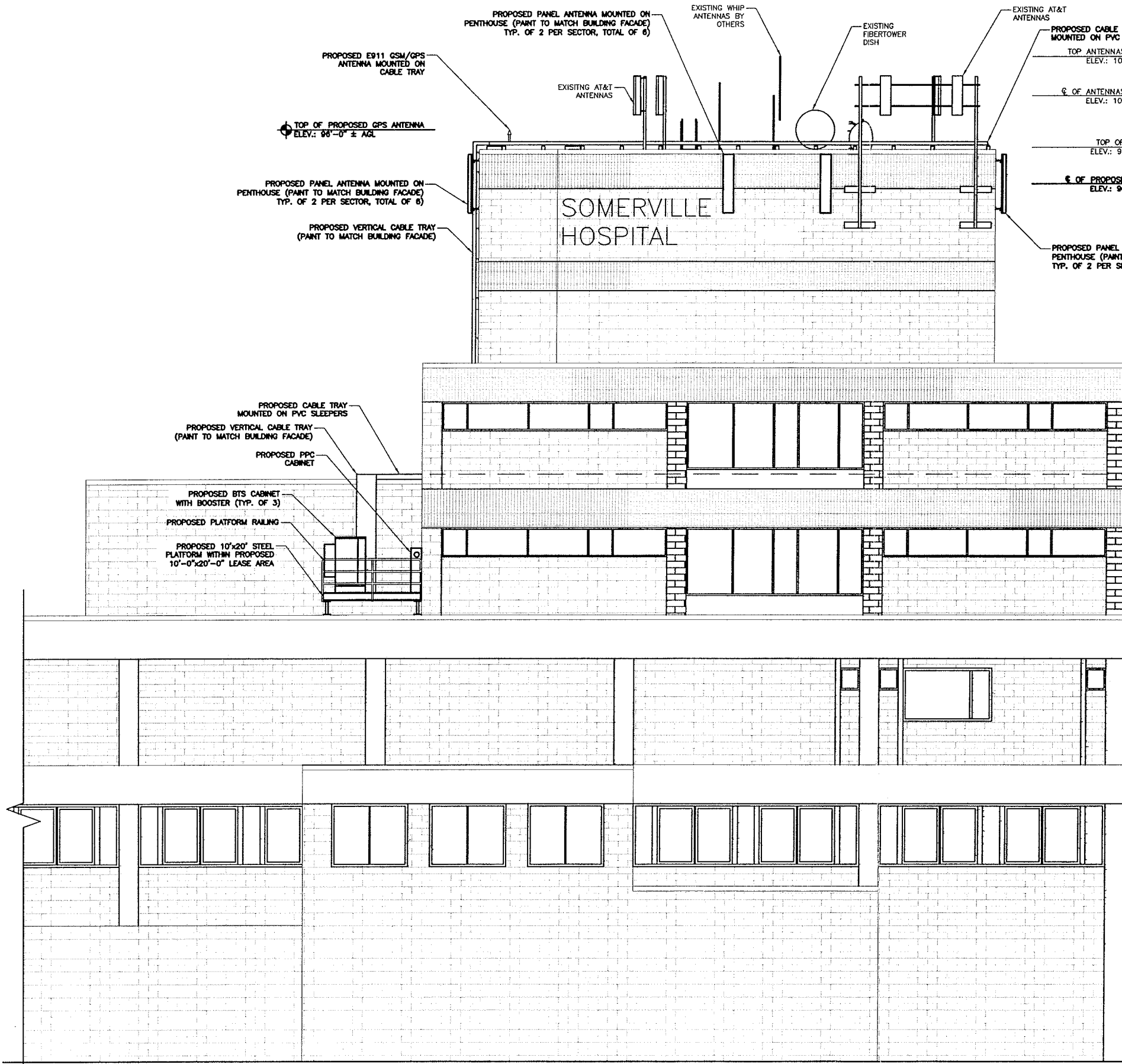
SITE

4BN0112-E  
SOMERVILLE  
HOSPITAL  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

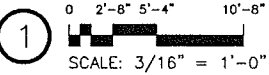
SHEET TITLE  
ROOFTOP PLANS  
WITH EQUIPMENT  
LAYOUT DETAIL

SHEET NUMBER

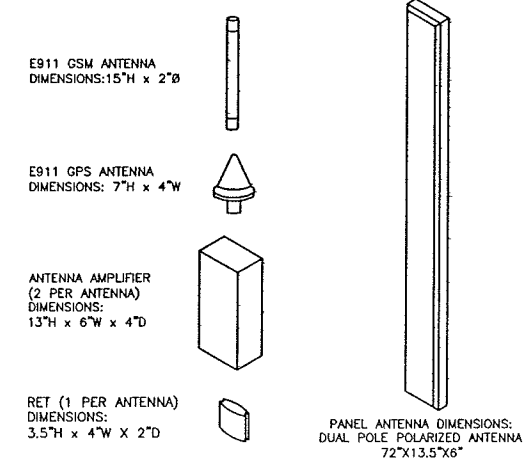
Z-1



NORTH ELEVATION  
SCALE: 3/16"=1'-0"



PROPOSED ANTENNAS AND VERTICAL CABLE TRAYS TO BE PAINTED TO MATCH COLOR OF BUILDINGS FACADE (APPLICANT SHALL WORK WITH PLANNING STAFF TO SELECT COLORS)



GENERAL ANTENNA DIMENSIONS  
SCALE: N.T.S.

2

T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY  
NORTON, MA 02766  
OFFICE: (508) 286-2700  
FAX: (508) 286-2893

**MAXTON**  
MAXTON TECHNOLOGY, INC.  
**BAY STATE DESIGN**  
Architects - Engineers  
241 Boston Post Rd. West  
Marlborough, MA 01752  
Phone: 508-229-4100  
Fax: 508-485-6321

APPROVALS

LANDLORD \_\_\_\_\_

LEASING \_\_\_\_\_

R.F. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

A/E \_\_\_\_\_

COMMONWEALTH OF MASSACHUSETTS  
REGISTERED PROFESSIONAL ENGINEER  
RAMASASTRY SATYAPRASAD  
No. 26896  
ENGINEER

PROJECT NO: 2912.066

DRAWN BY: JRK

CHECKED BY: K.B.

SUBMITTALS

REV D	12-03-09	ZONING FINAL
REV C	10-26-09	ZONING
REV B	10-20-09	ZONING
REV A	10-07-09	ZONING

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SITE  
4BN0112-E  
SOMERVILLE HOSPITAL  
230 HIGHLAND AVENUE  
SOMERVILLE, MA 02143

SHEET TITLE  
ELEVATION & DETAILS

SHEET NUMBER  
Z-2