

Sprint[®]

VISION



WESTON MANOR BS13XC671

15 WESTON AVENUE
SOMERVILLE, MA 02145
MIDDLESEX COUNTY



21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com



ENGINEER STAMP/SIGNATURE

PREPARED FOR:



1 INTERNATIONAL BLVD. SUITE 800
MAHWAH, NJ 07495
PHONE: (800) 357-7641

PROJECT COORDINATION & MANAGEMENT:



1 ROBBINS ROAD
WESTFORD, MA 01886
(978) 952-1600

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SUBMITTALS

NO.	DATE	DESCRIPTION	BY
0	9/07/11	FOR REVIEW	JC
2	09/22/11	REVS PER COMMENTS	JD
3	10/26/11	REVISED PER COMMENTS	KW

EBI JOB NO:
81110152

SITE INFO:
WESTON MANOR
BS13XC671
15 WESTON AVENUE
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

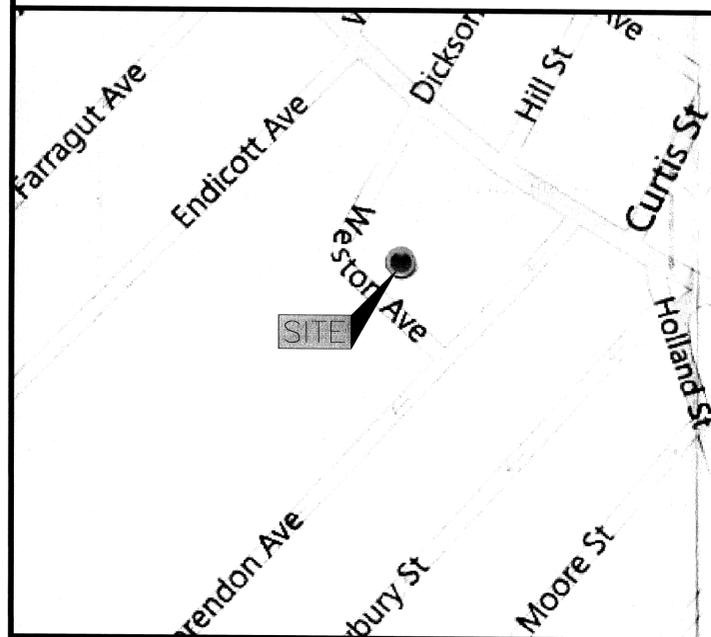
SHEET TITLE:
TITLE SHEET

DRAWN BY:
JC
CHECKED BY:
DD
DATE:
09/22/11

SHEET NO:

T-1

VICINITY MAP (NOT TO SCALE) ↑



GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF BTS EQUIPMENT AND ANTENNAS.
- SIGNALS FROM THE ANTENNA SHALL NOT INTERFERE WITH ANY EXISTING COMMUNICATION SITES. ALL ITEMS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED.
- THIS IS AN UNMANNED FACILITY - NO SOLID WASTE. THE SITE WILL CREATE NO TRASH, THUS REQUIRES NO DUMPSTER.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQ'D.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- MASSACHUSETTS STATE BUILDING CODE 780 CMR - 8TH EDITION

SCOPE OF WORK

- INSTALL (6) PANEL ANTENNAS, WITH (9) REMOTE RADIO HEADS (RRH), ON EXISTING ROOFTOP.
- INSTALL (2) EQUIPMENT CABINETS ON EXISTING STEEL EQUIPMENT FRAME ON ROOF.
- ROUTE HYBRID CABLES FROM PROPOSED EQUIPMENT TO PROPOSED REMOTE RADIO HEADS.
- REMOVE (1) EXISTING MODCELL CABINET & (1) EXISTING POWER CABINET FROM EXISTING STEEL EQUIPMENT FRAME ON ROOF.
- REMOVE (3) EXISTING CDMA ANTENNAS & EXISTING COAX CABLES.
- REPLACE EXISTING GPS ANTENNA WITH NEW GPS ANTENNA.

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
C-1	PLOT PLAN
A-1	ROOFTOP PLAN & EQUIPMENT PLATFORM LAYOUT
A-2	ELEVATIONS
A-3	ANTENNA SCENARIO
A-4	EQUIPMENT DETAILS

PROJECT INFORMATION

SITE NAME: WESTON MANOR
SITE NUMBER: BS13XC671
SITE ADDRESS: 15 WESTON AVENUE, SOMERVILLE, MA 02145
COUNTY: MIDDLESEX COUNTY
ZONING DISTRICT: RESIDENCE B
TAX ID: MAP: 9 LOT: 3
PROPERTY OWNER: SOMMERVILLE HOUSING AUTH., MEMORIAL ROAD, SOMMERVILLE, MA 02145
STRUCTURE TYPE: ROOFTOP
STRUCTURE HEIGHT: 86'-0"± AGL
PANEL ANTENNA RAD CENTER: 76'-3"± & 83'-3"± AGL
COORDINATES: LATITUDE: 42°24'11.0"N, LONGITUDE: 71°07'45.0"W
GROUND ELEVATION: 68'± A.M.S.L. (USGS GETELEVATION)

PROJECT TEAM

APPLICANT:
SPRINT
1 INTERNATIONAL BLVD. SUITE 800
MAHWAH, NJ 07495
PHONE: (800) 357-7641

APPLICANT REPRESENTATIVE
HPC DEVELOPMENT, LLC
400 TRADE CENTER
SUITE 5900
WOBURN, MA 01801
PHONE: (781) 569-5877

CONSULTANTS:
EBI CONSULTING
21 B STREET
BURLINGTON, MA 01803
PHONE: 781-273-2500
FAX: 781-273-3311

DIG SAFE SYSTEMS, INC.
1-888-DIG-SAFE (344-7233)

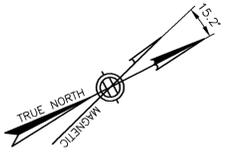


APPROVALS

NAME	SIGNATURE	DATE
LEASING/SITE ACQUISITION		
RF ENGINEER		
SITE OWNER/LANDLORD		
CONSTRUCTION		

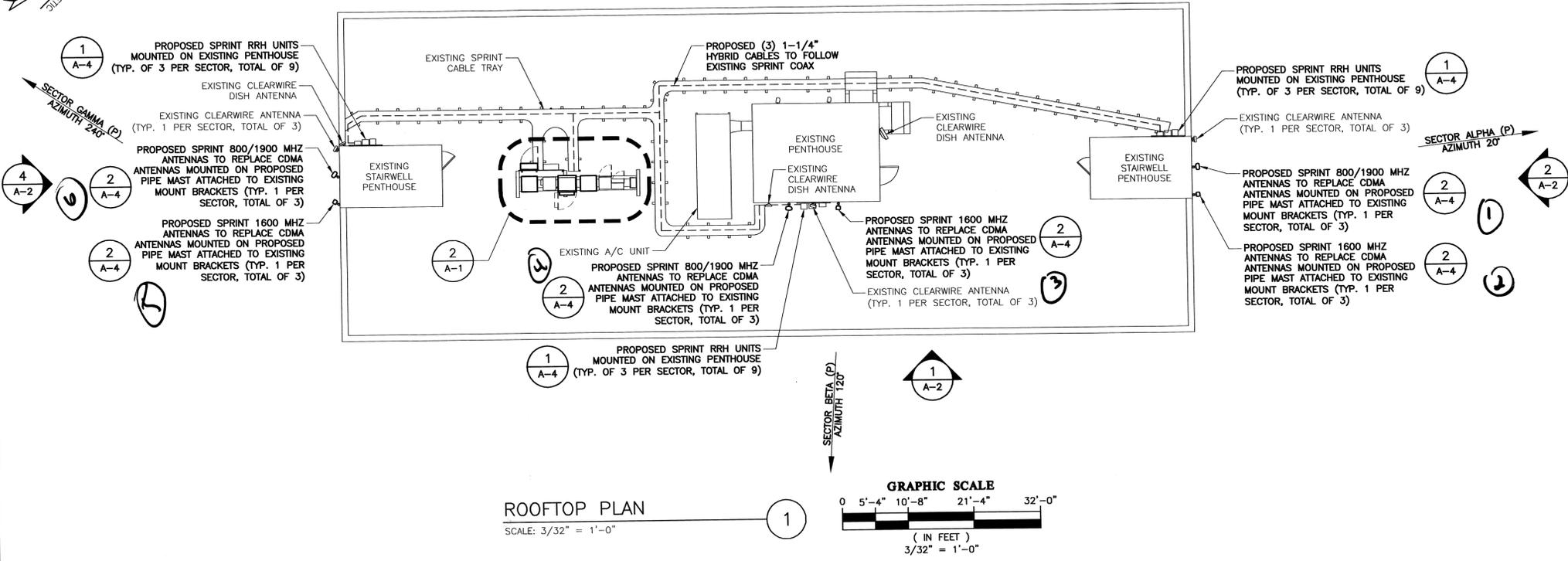
DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



NAME	SIGNATURE	DATE
SITE OWNER/LANDLORD		

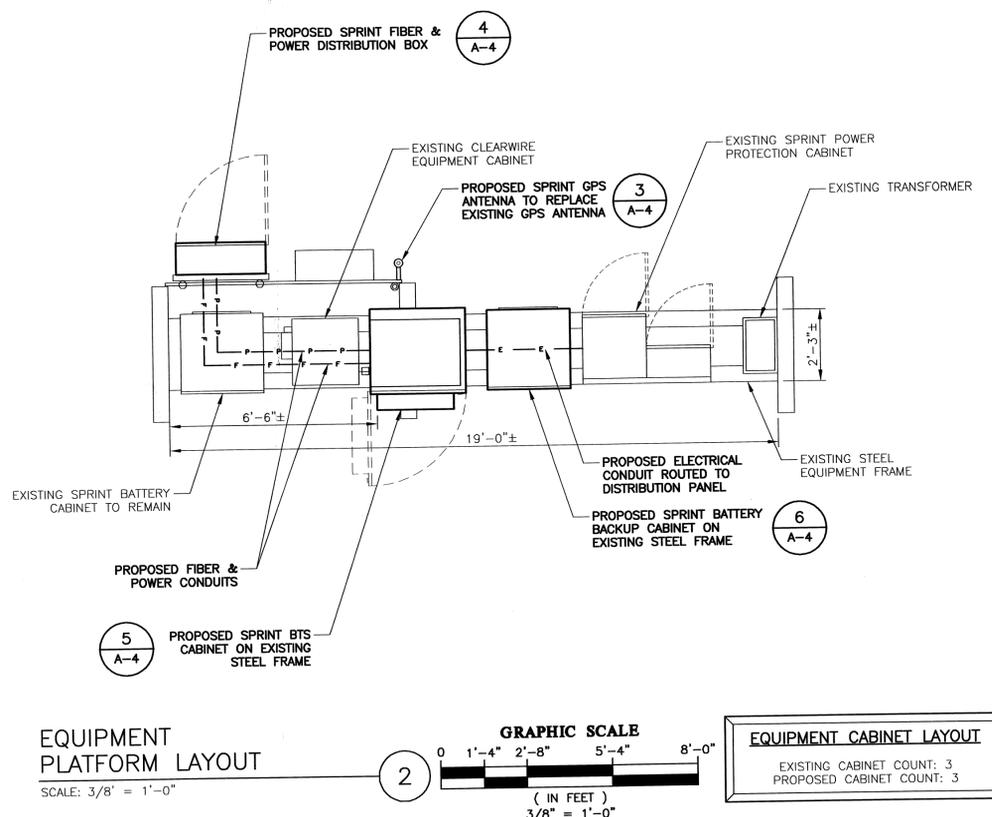
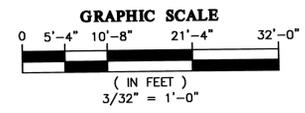
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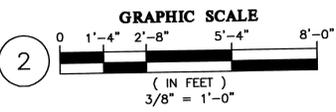
ANTENNA NOTE:
 PAINT PROPOSED ANTENNAS, PROPOSED RRH'S, ALL MOUNTING HARDWARE, & ANTENNA CABLE JUMPERS TO MATCH EXISTING PENTHOUSE & STAIRWELL PENTHOUSE.

HYBRID CABLE NOTE:
 NEW HYBRID CABLES TO BE SECURED TEMPORARILY, THEN PERMANENTLY ATTACHED UPON REMOVAL OF EXISTING COAX CABLES.

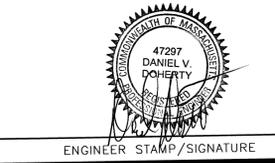
ROOFTOP PLAN
 SCALE: 3/32" = 1'-0"



EQUIPMENT PLATFORM LAYOUT
 SCALE: 3/8" = 1'-0"



EQUIPMENT CABINET LAYOUT
 EXISTING CABINET COUNT: 3
 PROPOSED CABINET COUNT: 3



PREPARED FOR:
Sprint VISION
 1 INTERNATIONAL BLVD, SUITE 800
 MAHWAH, NJ 07495
 PHONE: (800) 357-7641

PROJECT COORDINATION & MANAGEMENT:
Alcatel-Lucent
 1 ROBBINS ROAD
 WESTFORD, MA 01886
 (978) 952-1600

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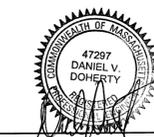
EBI JOB NO: 81110152

SITE INFO:
WESTON MANOR
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 15 WESTON AVENUE
 SOMERVILLE, MA 02145
 MIDDLESEX COUNTY

SHEET TITLE:
ROOFTOP PLAN & EQUIPMENT PLATFORM LAYOUT

DRAWN BY: JC
 CHECKED BY: DD
 DATE: 09/22/11

SHEET NO: **A-1**



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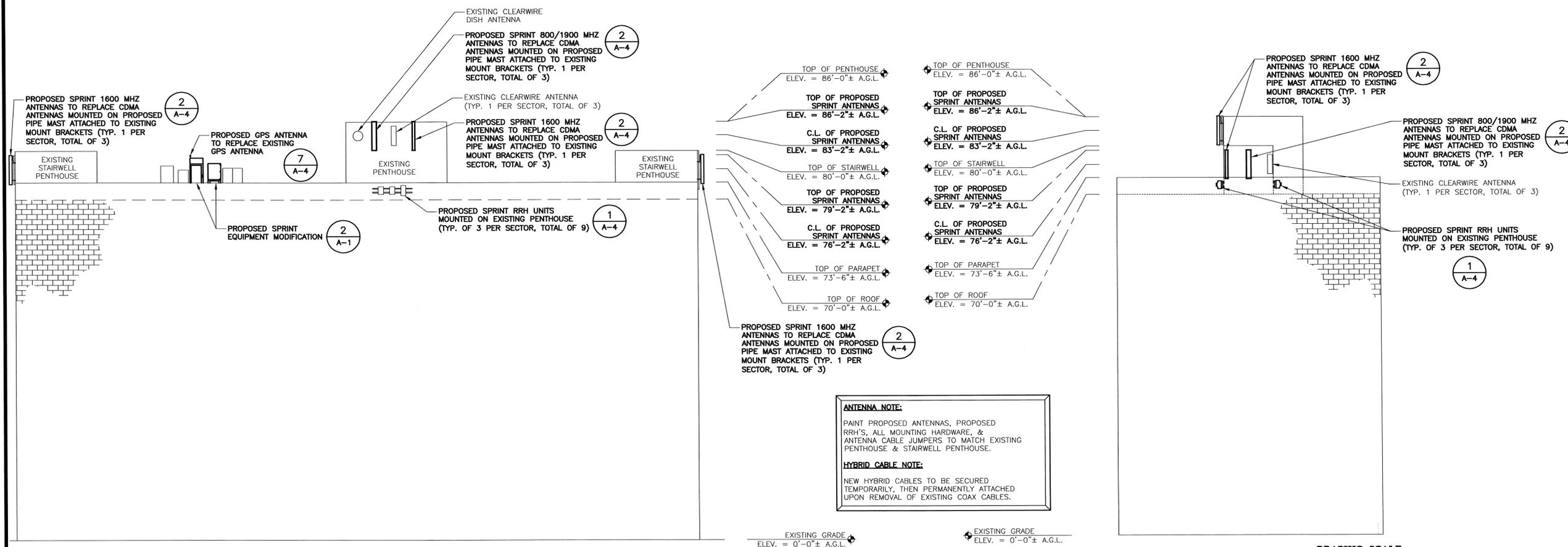
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SHEET TITLE:
ELEVATIONS

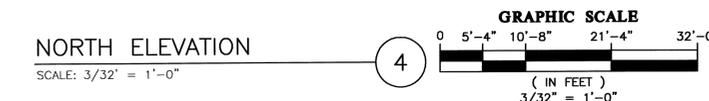
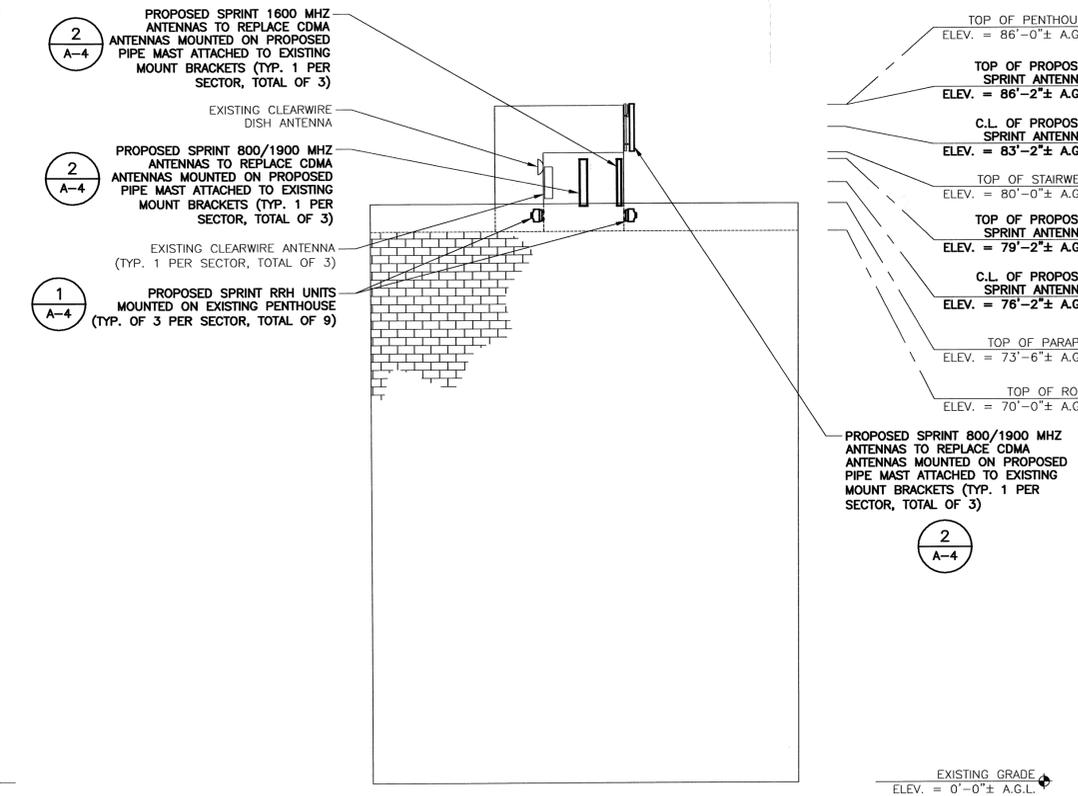
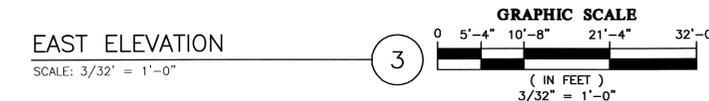
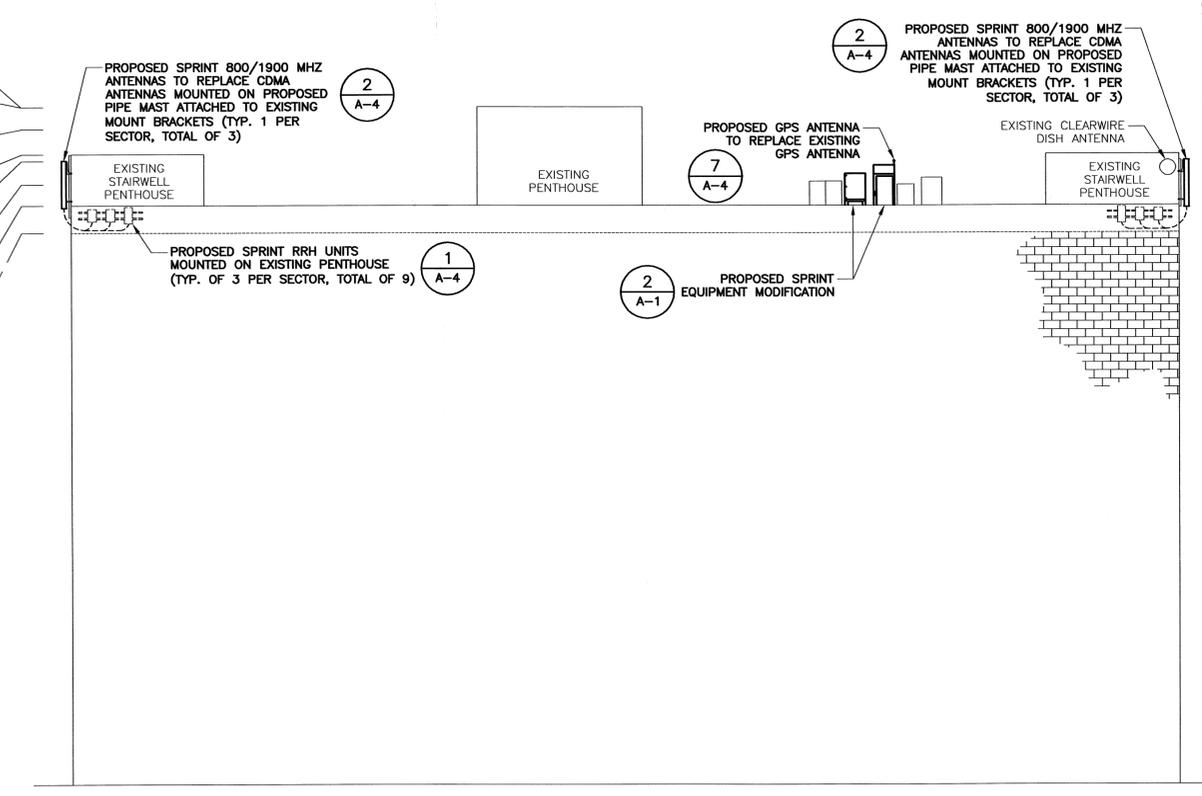
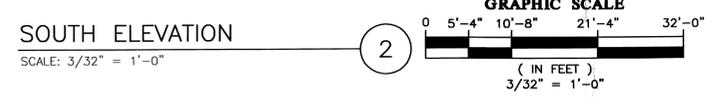
DRAWN BY: JC
CHECKED BY: DD
DATE: 09/22/11

SHEET NO: **A-2**



ANTENNA NOTE:
PAINT PROPOSED ANTENNAS, PROPOSED RRR'S, ALL MOUNTING HARDWARE, & ANTENNA CABLE JUMPERS TO MATCH EXISTING PENTHOUSE & STAIRWELL PENTHOUSE.

HYBRID CABLE NOTE:
NEW HYBRID CABLES TO BE SECURED TEMPORARILY, THEN PERMANENTLY ATTACHED UPON REMOVAL OF EXISTING COAX CABLES.





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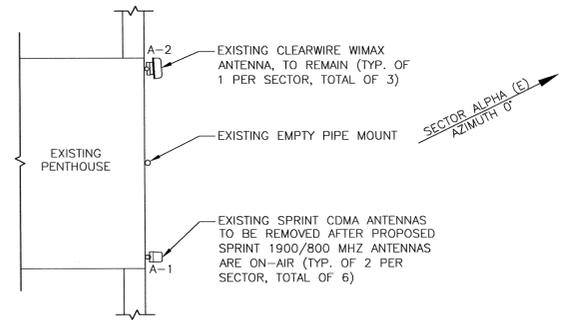
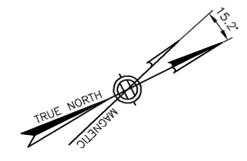
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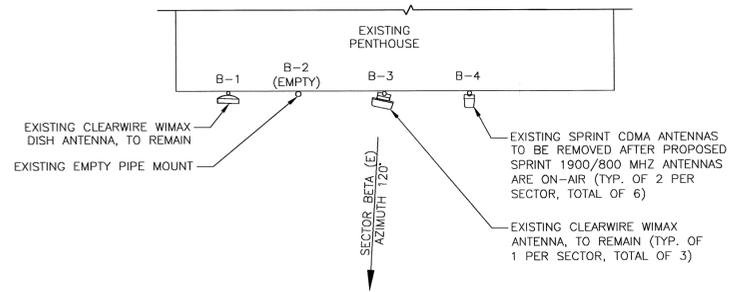
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SHEET TITLE:
ANTENNA SCENARIO

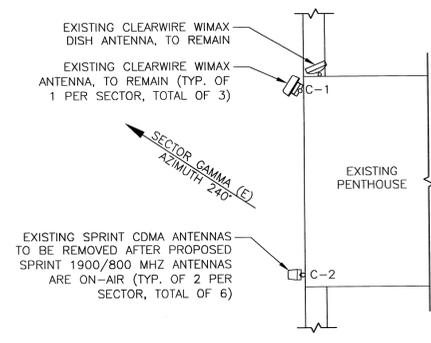
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CHECKED BY: DD	
DATE: 09/22/11	



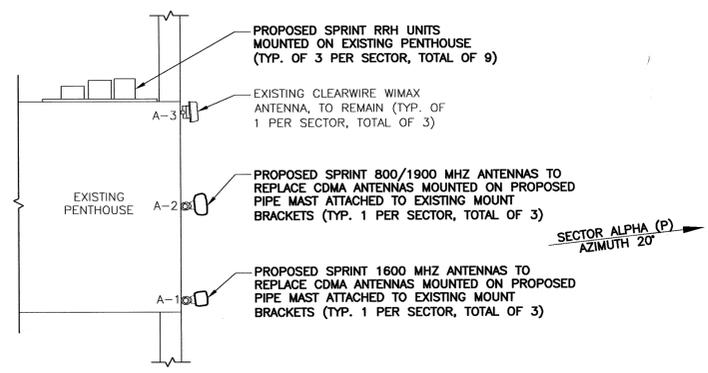
EXISTING ANTENNA PLAN



EXISTING ANTENNA PLAN



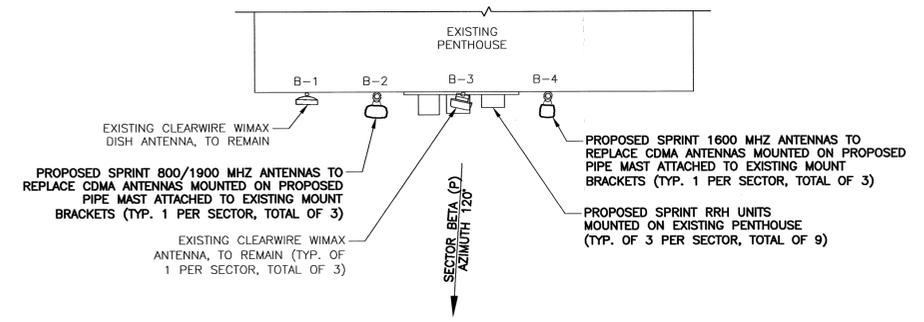
EXISTING ANTENNA PLAN



FINAL ANTENNA PLAN

ALPHA SECTOR
 ANTENNA SCENARIO
 SCALE: N.T.S.

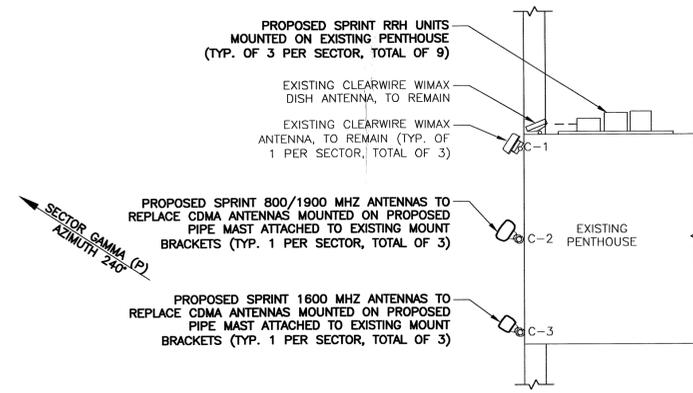
1



FINAL ANTENNA PLAN

BETA SECTOR
 ANTENNA SCENARIO
 SCALE: N.T.S.

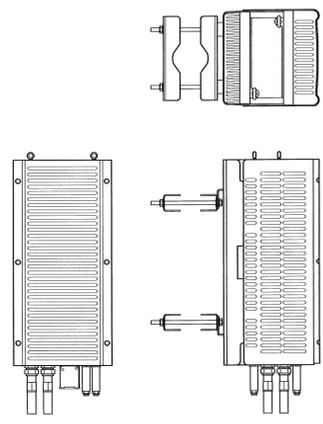
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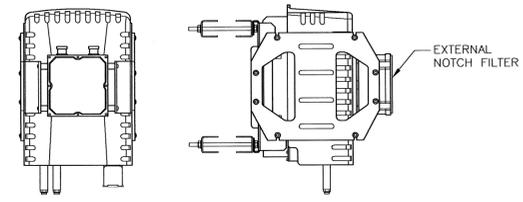
FINAL ANTENNA PLAN

GAMMA SECTOR
 ANTENNA SCENARIO
 SCALE: N.T.S.

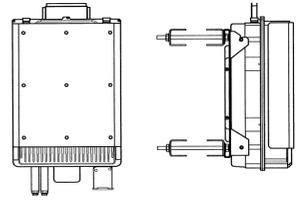
3



1600 MHz RRH
25.2"Hx11.8"Wx11.5"D
WEIGHT (WITHOUT HARDWARE): 60 LBS.

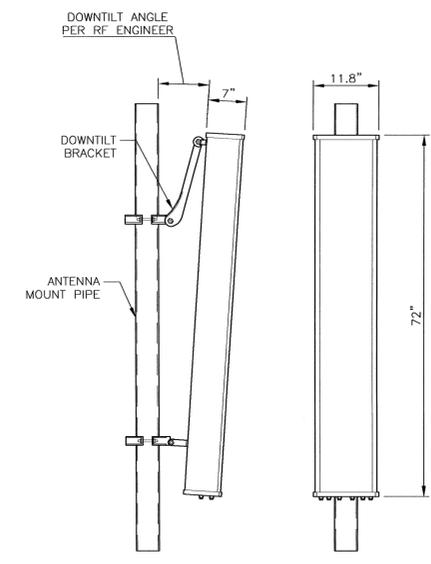


800 MHz RRH
19.4"Hx13"Wx10.7"D
WEIGHT (WITHOUT HARDWARE): 53 LBS.

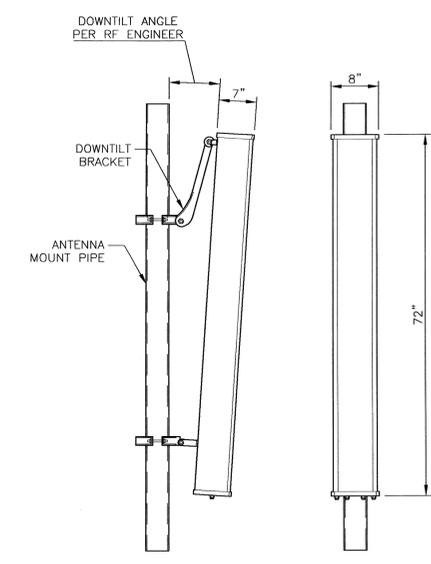


1900 MHz RRH
17.7"Hx13"Wx7.4"D

REMOTE RADIO HEAD SPEC. 1
SCALE: N.T.S.



1900/800 MHz ANTENNA
RFS - APXSPP18-C-A20

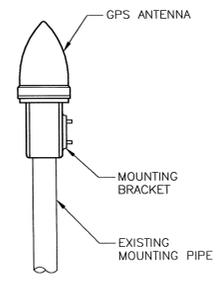


1600 MHz ANTENNA
RFS - APXV18-C-A20

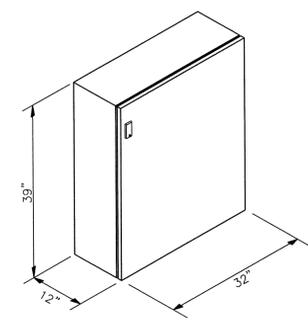
ANTENNA INSTALLATION NOTE:

1. UTILIZE EXISTING ANTENNA SUPPORT BRACKETS & PIPE MOUNTS WHERE APPLICABLE.
2. PROPOSED ANTENNA MOUNTING SYSTEM TO MATCH COMPONENTS, DIMENSIONS & INSTALLATION DETAILS OF EXISTING SPRINT ANTENNA MOUNTS.

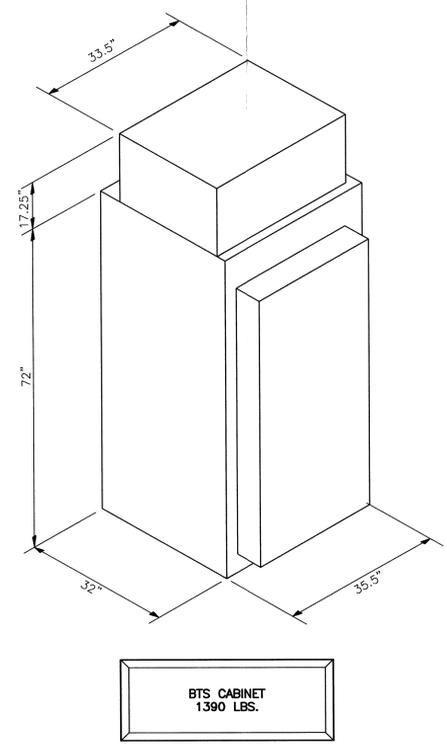
PANEL ANTENNA SPEC. 2
SCALE: N.T.S.



PC TEL GPS-TMG-26NCM GPS ANTENNA	
ANTENNA DIMENSIONS	5.0" H x 3.2" D
WEIGHT	0.6 LBS.
RADOME COLOR	WHITE

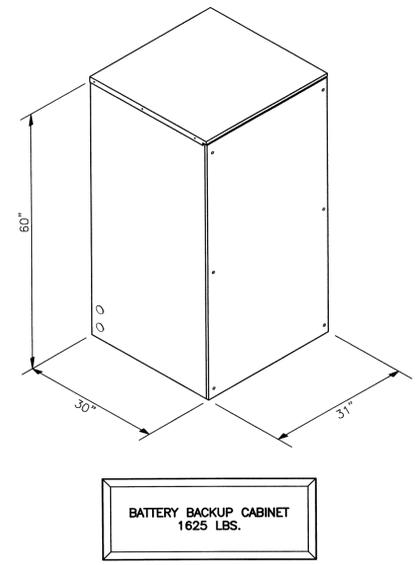


FIBER & POWER DISTRIBUTION BOX SPEC. 4
SCALE: N.T.S.



BTS CABINET
1390 LBS.

BTS CABINET SPEC. 5
SCALE: N.T.S.



BATTERY BACKUP CABINET
1625 LBS.

BATTERY BACKUP CABINET SPEC. 6
SCALE: N.T.S.

GPS ANTENNA SPEC. 3
SCALE: N.T.S.

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A-4