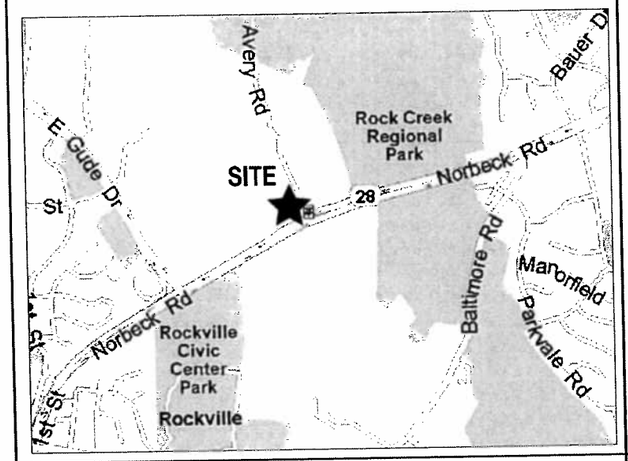
PROJECT TYPE

THIS PROJECT WILL INCLUDE THE INSTALLATION OF WIRELESS BROADBAND COMMUNICATIONS PROPOSED ANTENNAS MOUNTED ON A PROPOSED TOWER. EQUIPMENT CABINETS WILL BE LOCATED AT THE BASE OF THE TOWER ON AN ELEVATED STEEL PLATFORM. ASSOCIATED POWER AND TELEPHONE CIRCUITS WILL BE ADDED WITHIN THE SITE.

DIRECTIONS TO SITE

DEPART COCA-COLA DR, HANOVER, MD 21076 ON COCA-COLA DR (SOUTH-WEST) 0.3 MI, TAKE RAMP (RIGHT) ONTO SR-100 1.7 MI, AT EXIT 5A-B, TURN RIGHT ONTO RAMP 0.2 M, TAKE RAMP (LEFT) ONTO I-95 9.7 MI, AT EXIT 33B, TAKE RAMP (RIGHT) ONTO SR-198 [SANDY SPRING RD] 6.3 MI, ROAD NAME CHANGES TO SR-28 [NORBECK RD] 7.9 MI, TURN RIGHT (NORTH) ONTO LOCAL ROAD(S) 54 YDS ARRIVE 14500 AVERY ROAD EAST ROCKVILLE MD. 20850

ENLARGED VICINITY MAP



T-Mobile NORTHEAST LLC

SITE NAME
7WAN532A
CROWN 806399

SITE NUMBER
7WAN532A

SITE ADDRESS
14500 AVERY ROAD
EAST ROCKVILLE, MD 20850

SITE COORDINATES

LATTITUDE:	N 39° 05' 35.0" (NAD 83)
LONGITUDE:	W 77° 07' 26.0" (NAD 83)
GROUND ELEVATION:	400'± (NGVD 83)

APPROVED FOR ZD

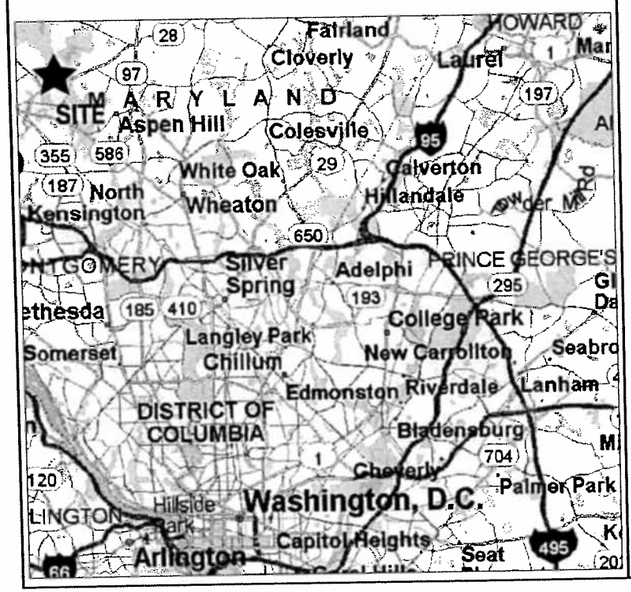
PROPERTY OWNER OR REP.	RF
CONSTRUCTION MANAGER	NETWORK
ZONING	OPERATIONS
REAL ESTATE	OTHER

SHEET INDEX

T-1 TITLE SHEET

C-1 OVERALL SITE PLAN
C-2 ENLARGE SITE PLAN
C-3 ELEVATION, ANTENNA, & COAX CABLE DETAILS

VICINITY MAP



CODE COMPLIANCE

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES IN EFFECT AT THE TIME THESE DRAWING ARE ISSUED FOR CONSTRUCTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

1. INTERNATIONAL BUILDING CODE (IBC 2006)
2. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA) 1999
3. INTERNATIONAL MECHANICAL CODE (IMC 2006)
4. NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMENDMENTS 2005
5. ANSI/EIA-222-F
6. LIFE SAFETY CODE NFFA 101/2003
7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
8. UNDERWATER LABORATORIES APPROVED ELECTRICAL PRODUCTS
9. LOCAL BUILDING CODE(S)
10. CITY / COUNTY ORDINANCES

PROJECT SUMMARY

SITE INFORMATION

JURISDICTION: CITY OF ROCKVILLE
CODE: 2006 USBC
OCCUPANCY: UNMANNED - UTILITY FACILITY
ZONING: PARK
CONSTRUCTION TYPE:
TAX MAP#: 160401549647

LANDLORD

CROWN CASTLE INTERNATIONAL
1220 AUGUSTA DRIVE
HOUSTON, TX 77057
UNITED STATES

APPLICANT

T-MOBILE NORTHEAST LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705
PHONE#: (240) 264-8600
FAX#: (240) 264-8610

CONSULTANTS

PRIME CONTRACTOR

NETWORK BUILDING AND CONSULTING, LLC
7380 COCA COLA DRIVE, SUITE 106
HANOVER, MD 21076
PHONE: (301) 325-6987
CONTACT: ROGER HUGHETT

A&E CONSULTANT

ALLPRO CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FWY, SUITE 204
DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
CONTACT: RAJESH SEHGAL, P.E

TOWER ENGINEER

BY OTHERS

UTILITIES

MISS UTILITY

! CALL BEFORE DIGGING !
CONTRACTOR TO CALL 48 HOURS BEFORE DIGGING!
PHONE: 811
CONTRACTOR RESPONSIBLE FOR DAMAGE OF EXISTING UTILITIES DURING CONSTRUCTION

POWER

PEPCO
PHONE: (202) 833-7500

TELCO

VERIZON
CONTACT: JAMES BYRUM
PHONE: 301-595-6152

T-Mobile NORTHEAST, LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705

DRAWN BY:	D. ESCOBAR
CHECKED BY:	R. SEHGAL
ACGI JOB #:	10-2633

REVISIONS

NO	DATE	DESCRIPTION	BY
6	10/15/10	FINAL ZD	RM
5	10/14/10	REDLINES	RM
4	10/11/10	REDLINES	DE
3	08/31/10	REDLINES	VC
2	08/27/10	PRELIMINARY CD	DE
1	08/26/10	REDLINES	DE
0	08/17/10	LEASE EXHIBIT	RM

ALLPRO CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204 DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
WWW.ALLPROCGI.COM

STATE OF MARYLAND
RAJESH SEHGAL
NO. 28117
PROFESSIONAL ENGINEER
10/11/10
NOT VALID WITHOUT P.E. STAMP & SIGNATURE

Professional Certification:
I hereby certify that this document was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, Licensed No. 28117. Expiration Date: 2010-10-14

7WAN532A
CROWN 806399

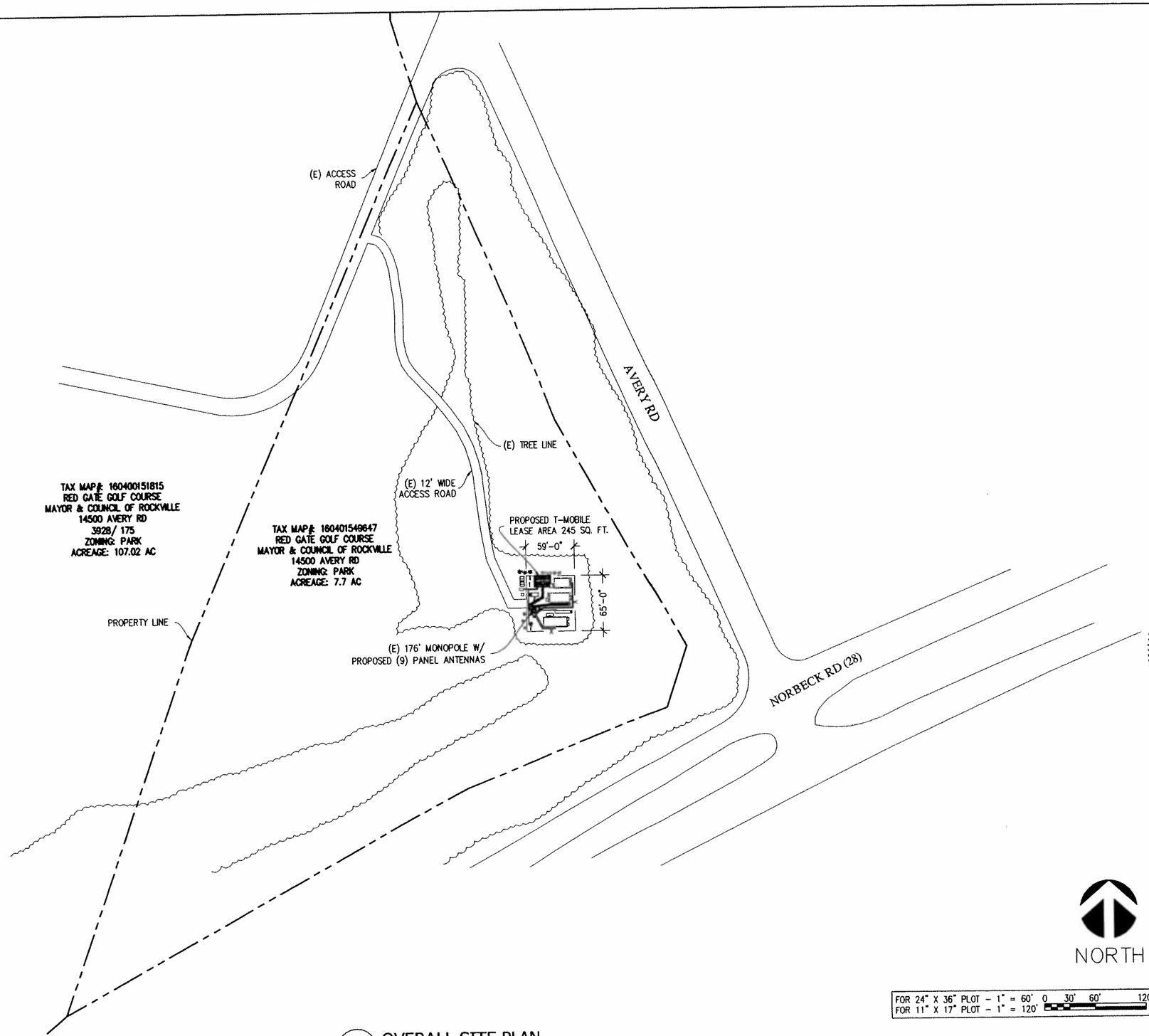
14500 AVERY ROAD
EAST ROCKVILLE, MD 20850

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

LEGEND

PROPOSED	NEW
(E)	EXISTING
—— – ——	CENTER LINE
—— – – ——	PROPERTY LINE
——X——	FENCE LINE
——G——	GROUND WIRE
—— OHP ——	OVERHEAD POWER
—— OHT ——	OVERHEAD TELCO
—— P ——	UNDERGROUND POWER CONDUIT
—— T ——	UNDERGROUND TELCO CONDUIT



1 OVERALL SITE PLAN

T-Mobile NORTHEAST, LLC
10250 BALTIMORE AVENUE
BELTSVILLE, MD 20705

DRAWN BY:	O. ESCOBAR
CHECKED BY:	R. SEHGAL
ACGI JOB #:	10-2633

REVISIONS

NO	DATE	DESCRIPTION	BY
6	10/15/10	FINAL ZD	RM
5	10/14/10	REDLINES	RM
4	10/11/10	REDLINES	DE
3	08/31/10	REDLINES	VC
2	08/27/10	PRELIMINARY CD	DE
1	08/26/10	REDLINES	DE
0	08/17/10	LEASE EXHIBIT	RM

ALLPRO CONSULTING GROUP, INC.
9221 LYNDON B. JOHNSON FREEWAY
SUITE 210 DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
WWW.ALLPROCGI.COM

10/11/10
STATE OF MARYLAND
RAJESH SEHGAL
NO. 28117
PROFESSIONAL ENGINEER
NOT VALID WITHOUT P.E. STAMP & SIGNATURE

Professional Certification:
I hereby certify that this document was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, Licensed No. 28117. Expiration Date: 2010-10-18

7WAN532A
CROWN 806399

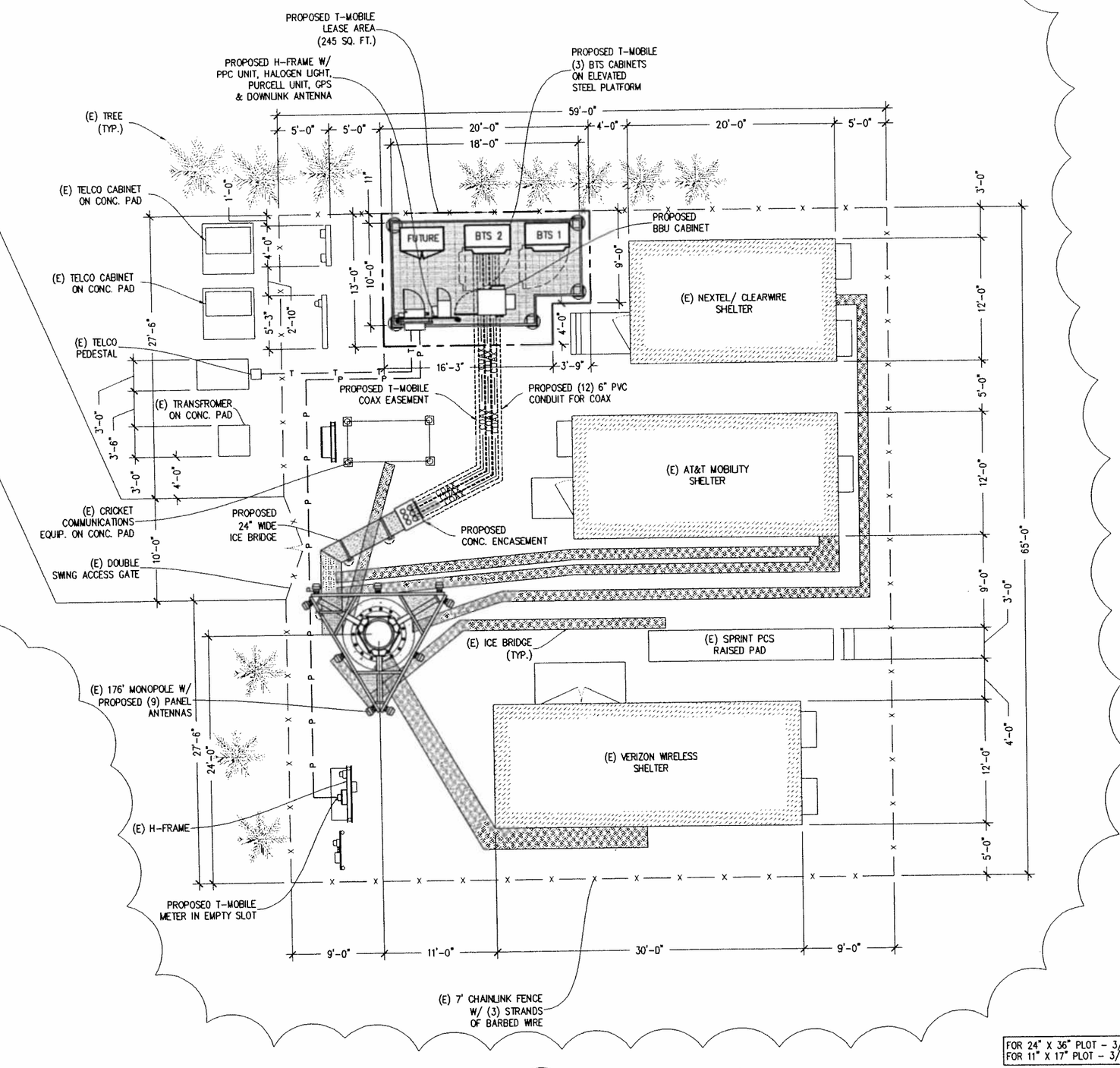
14500 AVERY ROAD
EAST ROCKVILLE, MD 20850

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1

LEGEND

PROPOSED	NEW
(E)	EXISTING
— — —	CENTER LINE
— — —	PROPERTY LINE
—X—	FENCE LINE
—G—	GROUND WIRE
—OHP—	OVERHEAD POWER
—OHT—	OVERHEAD TELCO
—P—	UNDERGROUND POWER CONDUIT
—T—	UNDERGROUND TELCO CONDUIT



FOR 24" X 36" PLOT – 3/16" = 1'
FOR 11" X 17" PLOT – 3/32" = 1'
0 2' 4' 8'

1 ENLARGED SITE PLAN

T-Mobile NORTHEAST, LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705

DRAWN BY: O. ESCOBAR
CHECKED BY: R. SEHGAL
ACGI JOB #: 10-2633

REVISIONS

NO	DATE	DESCRIPTION	BY
6	10/15/10	FINAL ZD	RM
5	10/14/10	REDLINES	RM
4	10/11/10	REDLINES	DE
3	08/31/10	REDLINES	VC
2	08/27/10	PRELIMINARY CD	DE
1	08/26/10	REDLINES	DE
0	08/17/10	LEASE EXHIBIT	RM

ALLPRO CONSULTING GROUP, INC.
9021 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-9893
FAX: 866-364-8375
WWW.ALLPROCGI.COM

10/11/10
STATE OF MARYLAND
RAJESH SEHGAL
NO. 28117
PROFESSIONAL ENGINEER
NOT VALID WITHOUT P.E. STAMP & SIGNATURE

Professional Certification:
I hereby certify that this document was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, Licensed No. 28117. Expiration Date: 2010-10-14

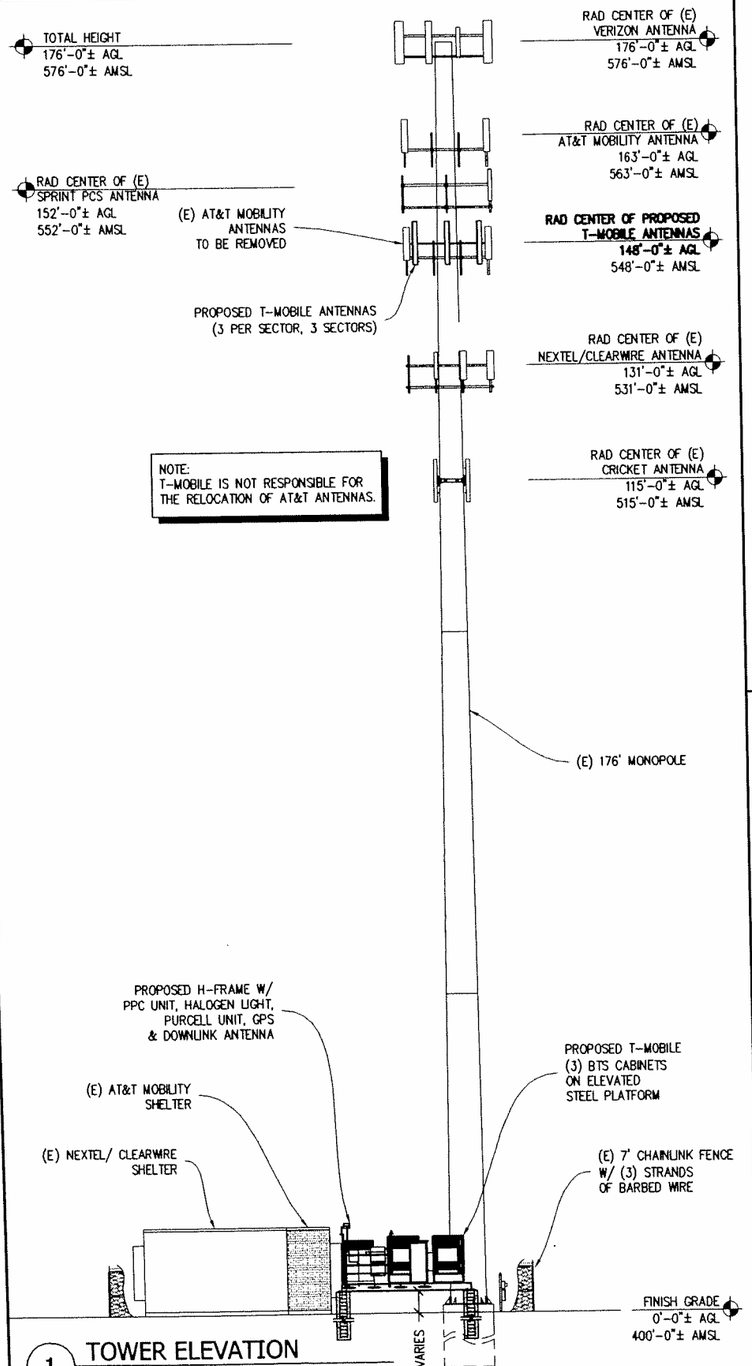
7WAN532A
CROWN 806399

14500 AVERY ROAD
EAST ROCKVILLE, MD 20850

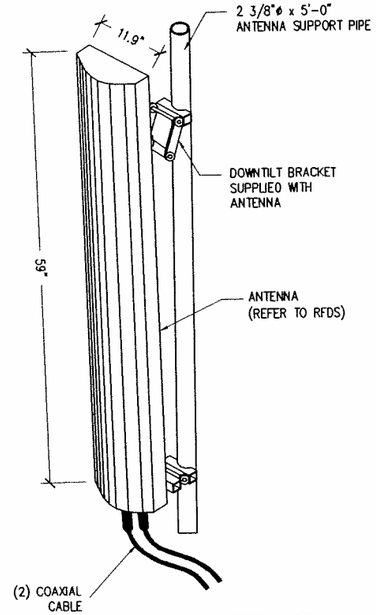
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-2

NOTE: PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, (E) TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS FOR EXACT MOUNTING DETAILS AND INFORMATION. THIS PLAN IS FOR REFERENCE ONLY AND NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES.

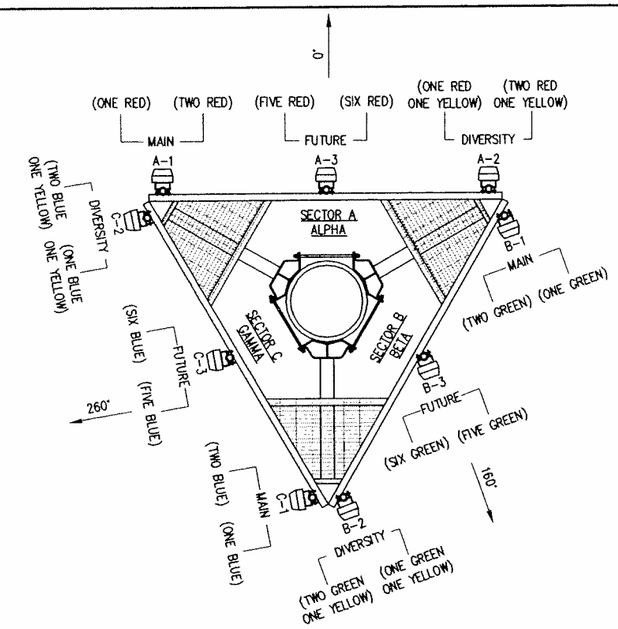


1 TOWER ELEVATION
Scale: N.T.S.



ANTENNA DIMENSION		
H (IN.)	W (IN.)	D (IN.)
59"	11.9"	6.3"

2 PANEL ANTENNA DETAIL
Scale: N.T.S.



9&18-LINE (DUAL-POLARITY) COLOR CODING
NOTE:
SEE RFDS FOR ACTUAL AZIMUTHS.

3 ANTENNA PLAN
Scale: N.T.S.

COAX CABLE IDENTIFICATION

CONTRACTOR MUST PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PER THE FOLLOWING INSTRUCTIONS:

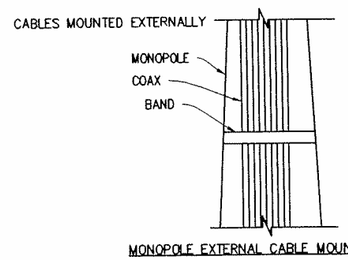
1. LOCATION: MARKINGS SHALL BE MADE USING COLOR TAPE W/ 3" OF COVERAGE AFFIXED AT THREE PLACES ON THE COAX CABLE RUN AS FOLLOWS:

FIRST-ON THE COAX AT THE CONNECTOR NEAREST THE ANTENNA (WHERE THE COAX AND JUMPER ARE CONNECTED).

SECOND - AT THE BASE OF THE TOWER STRUCTURE. (FOR TOWERS ONLY).
THIRD - AT A POINT OUTSIDE THE BTS. (JUST PRIOR TO MGB)

2. SECTOR IDENTIFICATION: NORMALLY A SITE WILL HAVE UP TO THREE SECTORS. SECTORS SHALL BE DESIGNATED IN A CLOCKWISE MANNER; THE ALPHA SECTOR IS CLOSEST TO ZERO DEGREES (NORTH) THE BETA AND GAMMA FOLLOW CLOCKWISE IN SEQUENCE.

ALPHA SECTOR - RED
BETA SECTOR - GREEN
GAMMA SECTOR - BLUE



MONOPOLE EXTERNAL CABLE MOUNTING DETAIL

4 CABLE MOUNTING DETAIL
Scale: N.T.S.

ANTENNA AND COAXIAL CABLE SCHEDULE

ANTENNA MARK	SECTOR	ANTENNA	AZIMUTH	RAD CENTER	COAXIAL CABLE LENGTH	COAXIAL CABLE	MINIMUM BENDING RADIUS	TMA TYPE	LOSS/100'	TOTAL
A-1	1	TMBXX_6516_R2M	0°	148'	189'	(1) 5/8"ø	20"	ETW200VA12UB	1.2	2.27
A-2	1	TMBXX_6516_R2M	0°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
A-3	1	TMBXX_6516_R2M	0°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
B-1	2	TMBXX_6516_R2M	160°	148'	189'	(1) 5/8"ø	20"	ETW200VA12UB	1.2	2.27 dB
B-2	2	TMBXX_6516_R2M	160°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
B-3	2	TMBXX_6516_R2M	160°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
C-1	3	TMBXX_6516_R2M	260°	148'	189'	(1) 5/8"ø	20"	ETW200VA12UB	1.2	2.27 dB
C-2	3	TMBXX_6516_R2M	260°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
C-3	3	TMBXX_6516_R2M	260°	148'	189'	(1) 5/8"ø	20"	ETW190VA12UB	1.2	2.27 dB
TOTAL LENGTH FOR (18) LINES					1701'	*ESTIMATED LENGTH - CONTRACTOR TO FIELD VERIFY				

5 ANTENNA SCHEDULE
Scale: N.T.S.

T-Mobile NORTHEAST, LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705

DRAWN BY:	D. ESCOBAR
CHECKED BY:	R. SEHGAL
ACG JOB #:	10-2633

REVISIONS

NO	DATE	DESCRIPTION	BY
6	10/15/10	FINAL ZD	RM
5	10/14/10	REDLINES	RM
4	10/11/10	REDLINES	DE
3	08/31/10	REDLINES	VC
2	08/27/10	PRELIMINARY CD	DE
1	08/26/10	REDLINES	DE
0	08/17/10	LEASE EXHIBIT	RM

ALLPRO CONSULTING GROUP, INC.
8021 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-6375
WWW.ALLPROCGI.COM

10/11/10
STATE OF MARYLAND
RAJESH SEHGAL
NO. 28117
PROFESSIONAL ENGINEER
NOT VALID WITHOUT P.E. STAMP & SIGNATURE

Professional Certification:
I hereby certify that this document was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, Licensed No. 28117 - Expiration Date: 2010-10-18

7WAN532A
CROWN 806399

14500 AVERY ROAD
EAST ROCKVILLE, MD 20850

SHEET TITLE
ELEVATION ANTENNA, & COAX CABLE DETAILS

SHEET NUMBER
C-3