



# at&t

## SITE NAME: WEEPING CHERRY

### FA NUMBER: 10072240

### SITE NUMBER: 2565

### 13900 GLEN MILL RD ROCKVILLE, MD 20850

6600 Rockledge Drive, Suite 550  
Bethesda, MD 20817  
PHONE: (202) 408-0960  
FAX: (202) 408-0961

7150 STANDARD DRIVE  
HANOVER, MD 21076

1362 MELLON RD, STE 140  
HANOVER, MD 21076  
PHONE: (410) 582-8043  
FAX: (410) 221-2962

SUBMITTALS		
DATE	DESCRIPTION	REV.
06-23-16	CONSTRUCTION REVIEW	A
06-24-16	CONSTRUCTION REVIEW	B

#### GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL 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.
- THE ARCHITECT/ENGINEER HAS 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.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE PROJECT MANAGER 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.
- 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.
- 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.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- 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.
- 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.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER 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 THE CONFLICT IS RESOLVED BY THE PROJECT MANAGER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SUBCONTRACT THIRD PARTY INSPECTION SERVICES TO SWEEP TEST TRANSMISSION LINES, INSPECT CONSTRUCTION WORK ON TOWERS/MONOPOLES, CERTIFY ANTENNA AZIMUTHS, ANTENNA HEIGHT (AGL), TEST GROUNDING, VERIFY SUBGRADE CAPACITY, CONCRETE STRENGTH (TOWER FOUNDATIONS ONLY) AND REBAR/CONCRETE PLACEMENT. THIRD PARTY INSPECTION SERVICE CONTRACTORS SHALL BE APPROVED BY AT&T.
- ALL MATERIALS SHALL BE AS SPECIFIED OR EQUAL APPROVED BY THE ARCHITECT / ENGINEER.

#### VICINITY MAP



#### SHEET INDEX

- T-1 TITLE SHEET
- C-1 SITE PLAN
- A-1 EQUIPMENT LAYOUT PLAN AND TEMPORARY TOWER ELEVATION
- S-1 ANTENNA SCHEDULE AND DETAILS
- S-2 STRUCTURAL NOTES, ANTENNA AND EQUIPMENT DETAILS
- E-1 GROUNDING PLAN, DIAGRAM AND DETAILS

#### SCOPE OF WORK

- INSTALL 99'-0" HIGH TEMPORARY TOWER
- RELOCATE EXISTING ANTENNAS TO TEMPORARY TOWER.
- RUN COAXIAL CABLES BETWEEN EXISTING SHELTER AND PROPOSED ANTENNAS.

#### SYMBOLS AND ABBREVIATIONS

ADJ	ADJUSTABLE	MECH	MECHANICAL	⬇	SPOT ELEVATION
APPROX	APPROXIMATE	MFR	MANUFACTURER	⊕	CENTERLINE
CAB	CABINET	MGB	MAIN GROUND BAR	⊖	PLATE
CLG	CEILING	MIN	MINIMUM	⊙	DETAIL NUMBER SHEET NUMBER
CONC	CONCRETE	MTL	METAL	⊙	GROUND WIRE
CONT	CONTINUOUS	NIC	NOT IN CONTRACT	—	COAXIAL CABLE
CJ	CONSTRUCTION JOINT	NTS	NOT TO SCALE	⊙	PCS ANTENNA
DIA	DIAMETER	OC	ON CENTER	⊙	
DWG	DRAWING	OPP	OPPOSITE		
EGB	EQUIPMENT GROUND BAR	SF	SQUARE FOOT		
EA	EACH	SHT	SHEET		
ELEC	ELECTRICAL	SIM	SIMILAR		
EL	ELEVATION	SS	STAINLESS STEEL		
EQ	EQUAL	STL	STEEL		
EQUIP	EQUIPMENT	TOC	TOP OF CONCRETE		
EXT	EXTERIOR	TOM	TOP OF MASONRY		
FF	FINISHED FLOOR	TOS	TOP OF STEEL		
GA	GAGE	TYP	TYPICAL		
GALV	GALVANIZED	VF	VERIFY IN FIELD		
GB	GROUND BAR	UON	UNLESS OTHERWISE NOTED		
GC	GENERAL CONTRACTOR	WWF	WELDED WIRE FABRIC		
GRND	GROUND	W/	WITH		
LG	LONG	&	AND		
LLH	LONG LEG HORIZONTAL	@	AT		
MAX	MAXIMUM				

#### PROJECT INFORMATION

OWNER:	MAYOR & COUNCIL OF ROCKVILLE MARYLAND AVE AT VINSON ROCKVILLE, MD 20850	APPLICANT:	AT&T MOBILITY 7150 STANDARD DRIVE HANOVER, MD 21076
SITE ADDRESS:	GLEN MILL RD. ROCKVILLE, MD 20850	PROJECT MANAGEMENT:	SMARTLINK LLC 1362 MELLON RD., SUITE 140 HANOVER, MD 21076 (410) 263-5465
ACCOUNT ID:	00150228	LATITUDE:	N 38° 39' 28.547"
DEED:	BOOK: 2247 PAGE: 339	LONGITUDE:	W 77° 21' 17.115"
ZONING:	RE1	GROUND ELEVATION:	503' AMSL @ TANK BASE
USE:	EXEMPT COMMERCIAL		
JURISDICTION:	MONTGOMERY COUNTY		
APPLICABLE CODES:	2015 INTERNATIONAL BUILDING CODE (IBC) 2014 NEC NATIONAL ELECTRICAL CODE (NFPA 70) 2015 NFPA 1 FIRE CODE ANSI/TIA-222-G		

#### OWNER APPROVAL

OWNER REPRESENTATIVE

DATE

SEAL:

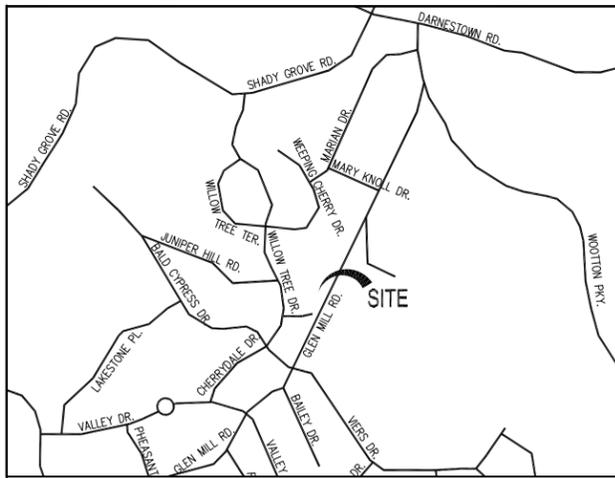
PROJECT NO: 1152.148  
DESIGNER: M.M.E.  
ENGINEER: C.S.

SCALE:  
0 1/2 1  
GRAPHIC SCALE IN INCHES

**10072240\_2565**  
**WEEPING CHERRY**  
**13890 GLEN MILL ROAD**  
**ROCKVILLE, MD 20850**

TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**

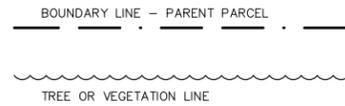


VICINITY MAP  
SCALE: 1"=2000'

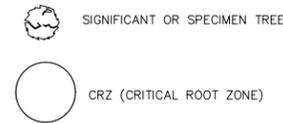
**SURVEY NOTES**

- 1.) SITE NUMBER: 10072240\_2565
- 2.) THIS IS NOT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY.
- 3.) THE PARENT PARCEL INFORMATION:  
OWNER: MAYOR & COUNCIL OF ROCKVILLE  
PREMISES ADDRESS: 13900 GLEN MILL RD  
ROCKVILLE, MD 20850  
MAILING ADDRESS: MARYLAND AVE AT VINSON  
ROCKVILLE, MD 20850  
COUNTY: CITY OF ROCKVILLE  
TAX MAP: FR52 PARCEL: P268 SUBDIV: 504  
DISTRICT NUMBER: 04  
ACCOUNT NUMBER: 00150228  
ZONING: N/A USE: EXEMPT COMMERCIAL
- 4.) THE RECORDED REFERENCES FOR THE PARENT PARCEL ARE AS FOLLOWS:  
DEED: LIBER 2247, FOLIO 0339  
AREA: 141,570 SF
- 5.) THE DATUM'S ARE NAD 83 AND NAVD 88, AND THE BEARING BASE IS STATE GRID.
- 6.) NO UNDERGROUND UTILITIES HAVE BEEN LOCATED, THE PRESENCE OF ANY SUCH UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- 7.) NO WETLANDS HAVE BEEN DEFINED AND ANY AREAS SHOWN AS MARSH, PONDS OR DITCHES ARE DONE SO FROM VISIBLE SURFACE FEATURES AND IN NO WAY CONSTITUTE A DEFINED WETLAND.
- 8.) THE FLOOD ZONE OF THE EXISTING WATER TANK IS AS FOLLOWS: FLOOD ZONE X, AREA OF MINIMUM FLOODING. SOURCE, FEMA FLOOD MAP FOR CITY OF ROCKVILLE, MD. COMMUNITY PANEL NUMBER 24031C 0329D. REVISED, SEPTEMBER 29, 2006.
- 9.) NO TITLE REPORT WAS FURNISHED FOR THIS SURVEY.
- 10.) THE DATA COLLECTED AND SHOWN ON THIS DRAWING ARE FOR THE PURPOSES OF CONSTRUCTION OF A CELLULAR ANTENNAS ON AN EXISTING WATER TANK, ANY NECESSARY ANCILLARY EQUIPMENT AND ALL APPROPRIATE EASEMENTS.
- 11.) NO UNRECORDED EASEMENTS ARE SHOWN ON THIS SURVEY AND IT IS POSSIBLE THAT SUCH EASEMENTS IMPACT THE SITE.
- 12.) THIS PROPERTY IS SUBJECT TO ALL MATTERS OF PUBLIC RECORD.
- 13.) THE LOCATION OF THE EXISTING WATER TANK IS AS FOLLOWS: THE VALUES LISTED BELOW ARE WITHIN ±50' HORIZONTAL AND ±20' VERTICAL.  
LATITUDE: N 39° 05' 04.293"  
LONGITUDE: W 77° 11' 54.707"  
ELEVATION: 502.88' AMSL AT BASE

**LINETYPES**



**LEGEND**



OWNER: NELSON, JAMES J & J L  
ACCOUNT ID: 04-02994761 MAILING ADDRESS: 9802 JUNIPER HILL RD ROCKVILLE, MD 20850-5421

OWNER: KORAPATI, CHANDRASEKHAR & ROSALIA P KORPATI  
ACCOUNT ID: 04-02994750 MAILING ADDRESS: 9804 JUNIPER HILL RD ROCKVILLE, MD 20850-5421

OWNER: SANFORD, FREDERIC G  
ACCOUNT ID: 04-02994748 MAILING ADDRESS: 9806 JUNIPER HILL RD ROCKVILLE, MD 20850-5421

OWNER: ZHENG ZHI-MING & PEIJUN HE  
ACCOUNT ID: 04-03534625 MAILING ADDRESS: 13820 GLEN MILL RD ROCKVILLE, MD 20850-0000

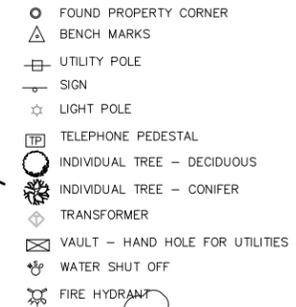
OWNER: BERMAN MARC S & PATTI H  
ACCOUNT ID: 04-03534636 MAILING ADDRESS: 13826 GLEN MILL RD ROCKVILLE, MD 20850-0000

OWNER: YOUSEFI, ARCHANOOSH & J  
ACCOUNT ID: 04-03237842 MAILING ADDRESS: 13900 GLEN MILL RD ROCKVILLE, MD 20859

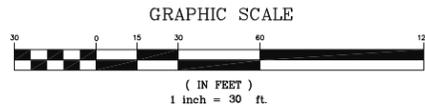
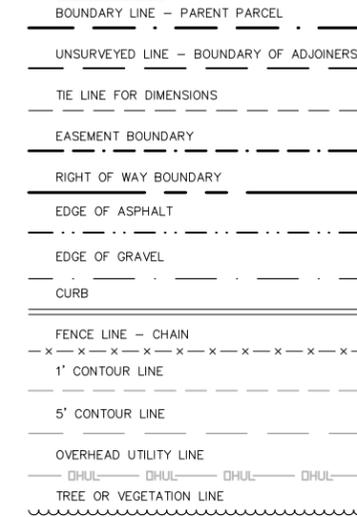
OWNER: POWERS, THOMAS P &  
ACCOUNT ID: 04-02994772 MAILING ADDRESS: 9800 JUNIPER HILL RD ROCKVILLE, MD 20850-5421

OWNER: YOUSEFI, ZAHRA B  
ACCOUNT ID: 04-03237842 MAILING ADDRESS: 13904 GLEN MILL RD ROCKVILLE, MD 20859

**LEGEND**

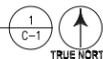


**LINE TYPES**



**SITE PLAN**

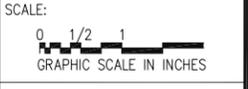
SCALE: 1"=30'



SUBMITTALS		
DATE	DESCRIPTION	REV.
06-23-16	CONSTRUCTION REVIEW	A
06-24-16	CONSTRUCTION REVIEW	B

SEAL:

PROJECT NO:	1152.148
DESIGNER:	W.A.
ENGINEER:	C.S.



10072240\_2565  
**WEeping CHERRY**  
13890 GLEN MILL ROAD  
ROCKVILLE, MD 20850

TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C-1**

**SUBMITTALS**

DATE	DESCRIPTION	REV.
06-23-16	CONSTRUCTION REVIEW	A
06-24-16	CONSTRUCTION REVIEW	B

SEAL:

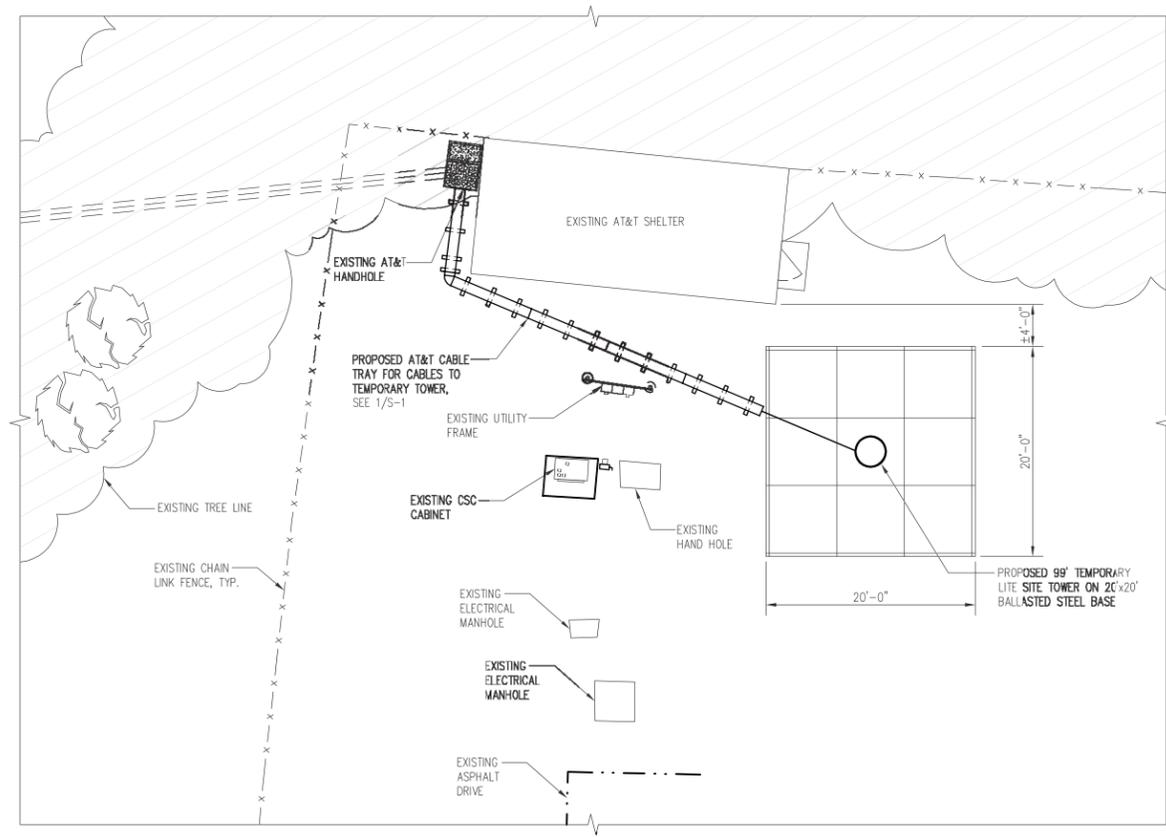
PROJECT NO: 1152.148  
DESIGNER: W.A.  
ENGINEER: C.S.

SCALE:  
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GRAPHIC SCALE IN INCHES

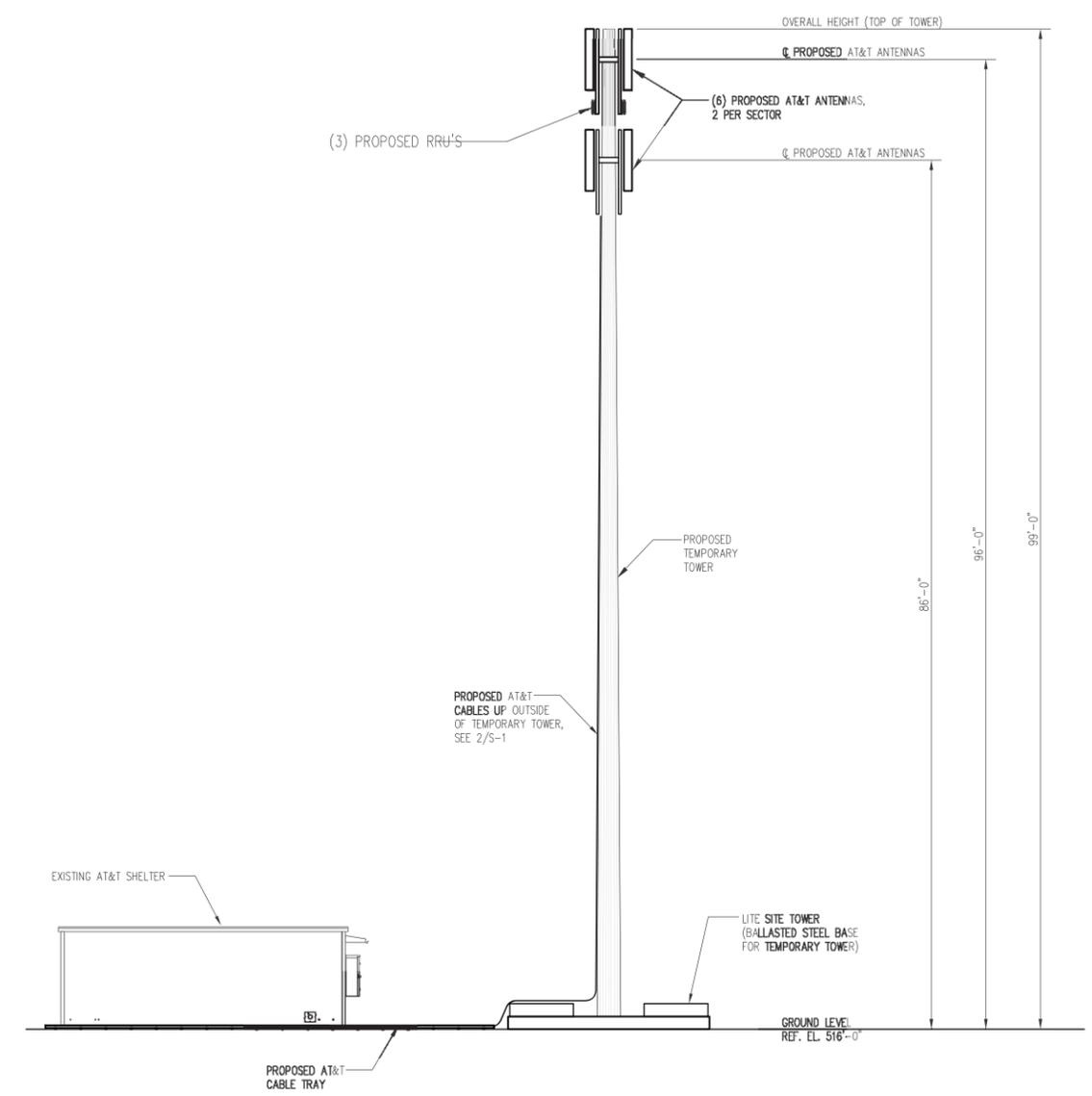
**10072240\_2565**  
**WEeping CHERRY**  
**13890 GLEN MILL ROAD**  
**ROCKVILLE, MD 20850**

TITLE:  
**EQUIPMENT LAYOUT PLAN AND  
TEMPORARY  
TOWER ELEVATION**

SHEET NUMBER:  
**A-1**



**EQUIPMENT LAYOUT PLAN**  
SCALE: 1/8"=1'-0"  
1  
A-1  
TRUE NORTH



**TEMPORARY TOWER ELEVATION**  
SCALE: 1/8"=1'-0"  
E1  
A-1

## CABLE SCHEDULE AND RF SYSTEM DESIGN PLAN

SECTOR	TYPE	ANTENNA POSITION	MAKE	MODEL	RAD CTR. FT. AGL	AZIMUTH	CABLES	APPROX. LENGTH	JUMPER LENGTH	ELECTRICAL DOWNTILT	MECHANICAL DOWNTILT
ALPHA	LTE	#1	POWERWAVE	P65-15-XLH-RR	96'-0"	0°	(2) 1 5/8"Ø	170±	6±	11°	2'
	UMTS	#2	KATHREIN	80010121	86'-0"	0°	(2) 1 5/8"Ø	170±	6±	2°	0'
BETA	LTE	#3	POWERWAVE	P65-15-XLH-RR	96'-0"	120°	(2) 1 5/8"Ø	170±	6±	2°	2'
	UMTS	#4	KATHREIN	80010121	86'-0"	120°	(2) 1 5/8"Ø	170±	6±	3°	0'
GAMMA	LTE	#5	POWERWAVE	P65-15-XLH-RR	96'-0"	240°	(2) 1 5/8"Ø	170±	6±	2°	2'
	UMTS	#6	KATHREIN	80010121	86'-0"	240°	(2) 1 5/8"Ø	170±	6±	2°	0'

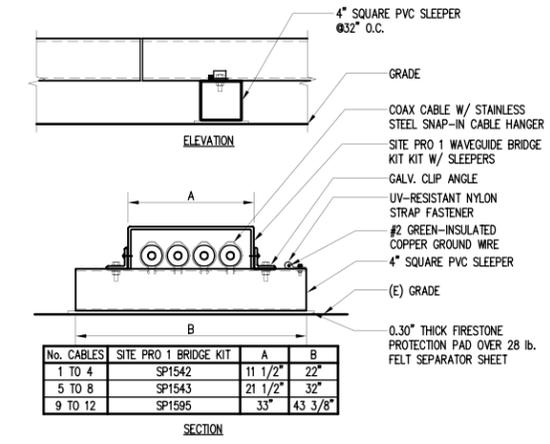
1 GPS							1/2"	25±			
TOTAL # OF ANTENNAS: 6	TOTAL # OF RRH'S = 3 (3) LTE 700 RRH'S		TOTAL # OF TMA'S = 6 POWERWAVE LGP21401		TOTAL # OF DIPLEXERS = 12 CM1007-DBPXBC-003 POWERWAVE LGP13519						

NEW EQUIPMENT: NQ      EQUIPMENT SHELTER SIZE: 12'-0"x20'-0"

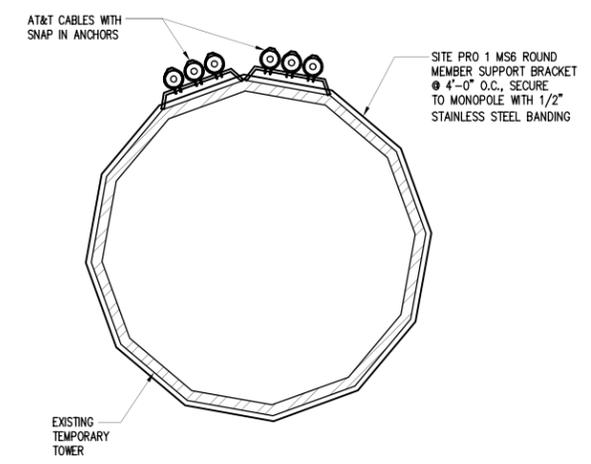
- NOTES:**
- SUBCONTRACTOR SHALL COORDINATE COLOR CODING WITH THE MASTER COLOR CODE DOCUMENT.
  - INSTALL SURGE ARRESTORS ON NEW MAIN COAXIAL CABLES. GROUND TO NEAREST GROUND BAR.
  - SUB CONTRACTOR SHALL INSTALL A BRASS IDENTIFICATION TAG (1 1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS. ONE AT THE ANTENNA PORT CONNECTION NEAR THE END OF THE JUMPER AND ONE ON EACH END OF THE JUMPER SERVING THE RADIO EQUIPMENT. EACH TAG WILL BE STAMPED WITH "ATT" AND THE ANTENNA PORT IDENTIFICATION NUMBER. TAGS SHALL BE ATTACHED WITH CORROSION PROOF UV RESISTANT WIRE OR CABLE-TY.

**RF DESIGN NOTE:**

This Antenna and Coax Cable schedule has been created using the RFDS dated 04/14/2016 REVISION V2016\_0.1. All antenna design, zoning, structural analysis, permits and compliance submissions are coordinated with the fore mentioned document.



**CABLE BRIDGE DETAIL**  
SCALE: 1 1/2"=1'-0"



**CABLE SUPPORT DETAIL**  
SCALE: 1-1/2"=1'-0"

**entrex**  
communication services, inc.  
6600 Rockledge Drive, Suite 550  
Bethesda, MD 20817  
PHONE: (202) 408-0960  
FAX: (202) 408-0961

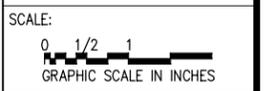
**at&t**  
7150 STANDARD DRIVE  
HANOVER, MD 21076

**smartlink**  
1362 MELLON RD, STE 140  
HANOVER, MD 21076  
PHONE: (410) 582-8043  
FAX: (410) 221-2962

SUBMITTALS		
DATE	DESCRIPTION	REV.
06-23-16	CONSTRUCTION REVIEW	A
06-24-16	CONSTRUCTION REVIEW	B

SEAL:

PROJECT NO: 1152.148  
DESIGNER: W.A.  
ENGINEER: C.S.



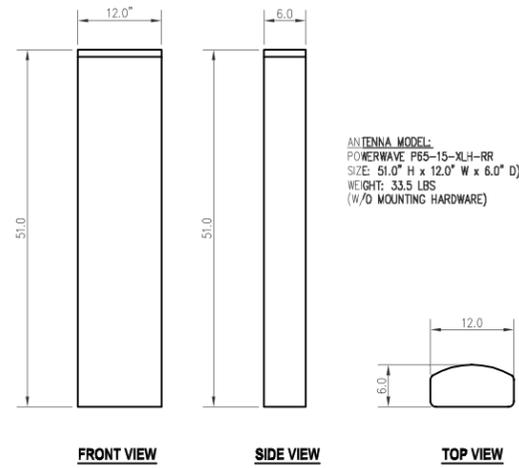
**10072240\_2565**  
**WEeping CHERRY**  
13890 GLEN MILL ROAD  
ROCKVILLE, MD 20850

TITLE:  
**ANTENNA SCHEDULE & DETAILS**

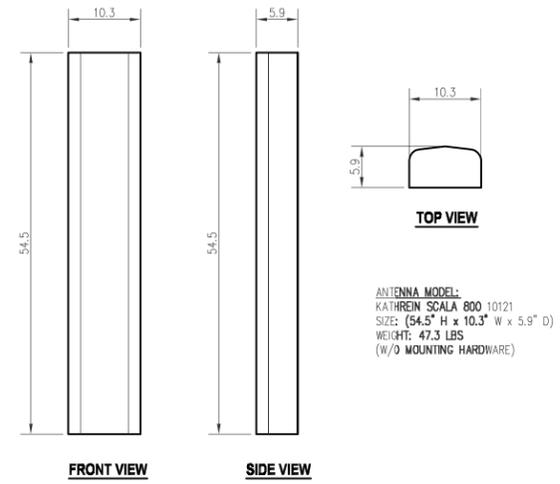
SHEET NUMBER:  
**S-1**

**STRUCTURAL NOTES**

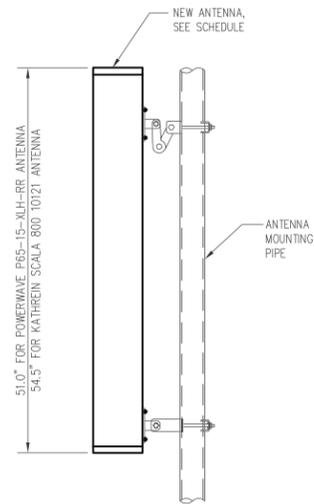
- THE DESIGN REQUIREMENTS FOR THE PROJECT ARE PER THE INTERNATIONAL BUILDING CODE 2012. THE WIND SPEED UTILIZED FOR DESIGN IS 115 MPH (RISK CATEGORY 2). THE DESIGN REQUIREMENTS FOR THE ANTENNA SUPPORT STRUCTURES ARE PER THE TIA/EIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES. THE DESIGN LIVE LOAD ON THE PLATFORM IS 30 PSF.
  - THE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.
  - THE GENERAL CONTRACTOR AND HIS SUB CONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING AND OR TRADE PERMITS AND INSPECTIONS THAT MAY BE REQUIRED FOR THE WORK.
  - STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE AISC CODE OF STANDARD PRACTICE.
  - STRUCTURAL STEEL PLATES, CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36. STRUCTURAL STEEL W SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. COLD GALVANIZE ALL FIELD PUNCHED HOLES, FIELD CUT SURFACES OR SURFACES WHERE GALVANIZE SURFACE IS DAMAGED.
  - WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1 STRUCTURAL WELDING CODE – STEEL (LATEST EDITION). WELD ELECTRODES SHALL BE E70XX UNLESS NOTED OTHERWISE.
  - STRUCTURAL THREADED FASTENERS FOR STEEL ANTENNA MOUNTING ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM A36. STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. STRUCTURAL FASTENERS SHALL BE 5/8" DIAMETER BEARING TYPE CONNECTIONS WITH THE THREADS EXCLUDED FROM THE SHEAR PLANE FOR ANGLES. STRUCTURAL FASTENERS SHALL BE 3/4" DIAMETER BEARING TYPE CONNECTIONS WITH THE THREADS EXCLUDED FROM THE SHEAR PLANE FOR ALL OTHER STRUCTURAL SHAPES. ALL EXPOSED STRUCTURAL FASTENERS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED.
  - EXPANSION ANCHORS INSTALLED IN CONCRETE SHALL BE HILTI STAINLESS STEEL ANCHORS AS SPECIFIED ON THE PLANS. THE EXPANSIONS ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.
  - NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.
- ROOF PROTECTION PADS UNDER THE CABLE BRIDGE SLEEPERS AND ROOF PAVERS SHALL BE 0.30" THICK RUBBER FIRESTONE PROTECTION PADS. THE ROOF PROTECTION PADS SHALL EXTEND A MINIMUM OF 2' BEYOND THE PERIMETER OF THE OF THE SLEEPERS. PROVIDE A 28 LB FELT SEPARATOR SHEET 2" LARGER THAN THE ROOF PROTECTION PAD DIRECTLY ON THE ROOF. REMOVE ALL LOOSE STONES PRIOR TO PLACING THE SEPARATOR SHEET. ROOF PROTECTION PADS SHALL NOT BE PLACED WITH IN 6" OF AN ADJACENT PAD OR OTHER ROOF OBSTRUCTION TO FACILITATE DRAINAGE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING OWNER'S ROOF CONTRACTOR WHO WILL COMPLETE ALL WORK ASSOCIATED WITH THE ROOF. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE BUILDING OWNER'S ROOF CONTRACTOR BEFORE INSTALLATION OF ANY ROOF MOUNTED EQUIPMENT.
  - A STRUCTURAL ANALYSIS FOR THE PROPOSED T-MOBILE UPGRADES SHOWN IN THESE DRAWINGS HAS NOT BEEN COMPLETED BY ENTREX, UNLESS SPECIFICALLY STATED OTHERWISE HEREIN. A THIRD PARTY HIRED DIRECTLY BY T-MOBILE OR ITS AGENT IS RESPONSIBLE FOR THE STRUCTURAL ANALYSIS FOR THESE PORPOSED UPGRADES.
- THE EXISTING ANTENNA MOUNTING PLATFORM &/OR FRAMES AS SHOWN IS GENERIC AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. THE STRUCTURAL CAPACITY OF THE EXISTING ANTENNA MOUNTING PLATFORM &/OR FRAMES TO SUPPORT THE FINAL ANTENNA AND ANOLLARY EQUIPMENT CONFIGURATION SHALL BE PERFORMED BY OTHERS IN CONSULTATION WITH THE ANTENNA MOUNT MANUFACTURER.



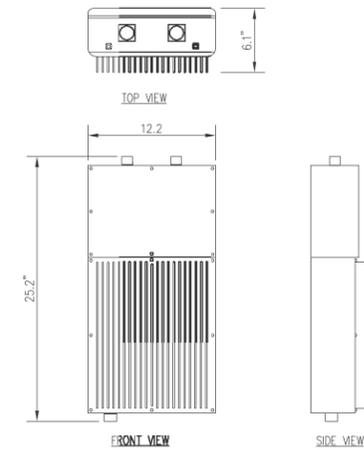
**POWERWAVE P65-15-XLH-RR ANTENNA DETAIL**  
SCALE: 1"=1'-0" 1  
S-2



**KATHREIN SCALA 800 10121 ANTENNA DETAIL**  
SCALE: 1"=1'-0" 2  
S-2



**ANTENNA MOUNTING DETAIL**  
SCALE: 1"=1'-0" 3  
S-2



**ALCATEL-LUCENT RRH 2x40-07L-AT (-AD SIMILAR)**  
SCALE: 1-1/2"= 1'-0" 4  
S-2

6600 Rockledge Drive, Suite 550  
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FAX: (410) 221-2962

SUBMITTALS		
DATE	DESCRIPTION	REV.
06-23-16	CONSTRUCTION REVIEW	A
06-24-16	CONSTRUCTION REVIEW	B

SEAL:

PROJECT NO:	1152.148
DESIGNER:	W.A.
ENGINEER:	C.S.



**10072240\_2565**  
**WEeping CHERRY**  
13890 GLEN MILL ROAD  
ROCKVILLE, MD 20850

TITLE:  
**STRUCTURAL NOTES,  
ANTENNA AND  
EQUIPMENT  
DETAILS**

SHEET NUMBER:  
**S-2**

