EBI Consulting
environmental | engineering | due diligence

21 B Street
Burlington, MA 01803
Tel: (781) 273-2500
Fax: (781) 273-3311
www.ebiconsulting.com

RECEIVED
JUN 25 2015
DEPARTMENT OF
PLANNING & ZONING

June 22, 2015

Burlington Historic Preservation Review Committee
c/o Ms. Mary O'Neil, CLG Coordinator
Department of Planning and Zoning
Burlington City Hall
149 Church Street
Burlington, VT 05401
Phone: (802) 865-7556
Email: mconeil@burlingtonvt.gov

Subject: Invitation to Comment
Redstone / VT6446 / FA #10133359
720 South Prospect Street, Burlington, Chittenden County, VT
EBI Project #6115003138

Dear Ms. O'Neil:

Pursuant to Section 106 of the National Historic Preservation Act, the regulations promulgated thereunder and interagency agreements developed thereto, EBI Consulting, Inc. on behalf of AT&T Mobility, LLC provides this notice of a proposed telecommunications facility installation at the address listed above.

EBI would like to inquire if you would be interested in commenting on this proposed project. Please refer to the attached project plans for complete details regarding this proposed project.

Please note that we are requesting your review of the attached information as part of the Section 106 process only and not as part of the local zoning process. We are only seeking comments related to the proposed project's potential effect to historic properties.

Please submit your comments regarding the proposed project's potential effect on historic properties to EBI Consulting, to my attention at the address noted on the letterhead above, or contact me via telephone at the number listed below. Please reference the EBI project number. We would appreciate your comments as soon as possible within the next 30 days. Please do not hesitate to contact me if you have any questions or concerns about the proposed project.

Respectfully Submitted,

Ms. Britta Fenniman Tonn
Senior Architectural Historian
(802) 522-8259 phone
(781) 425-3619 fax
bfennimantonn@ebiconsulting.com

Attachments - Drawings and Maps

Source: Selected data from ESRI, EBI & USGS

Legend

★ Project Site

Site Radius at 250', 500', 1000' and ½ mile

N

USGS 24K Quad: Burlington, VT 1973

Date: 6/19/2015

Figure 2 - Topographic Map

0 500 1,000 2,000 3,000 Feet

VT6446 / FA #10133359 REDSTONE
720 SOUTH PROSPECT STREET
BURLINGTON, VT 05401

PN: 6115003138

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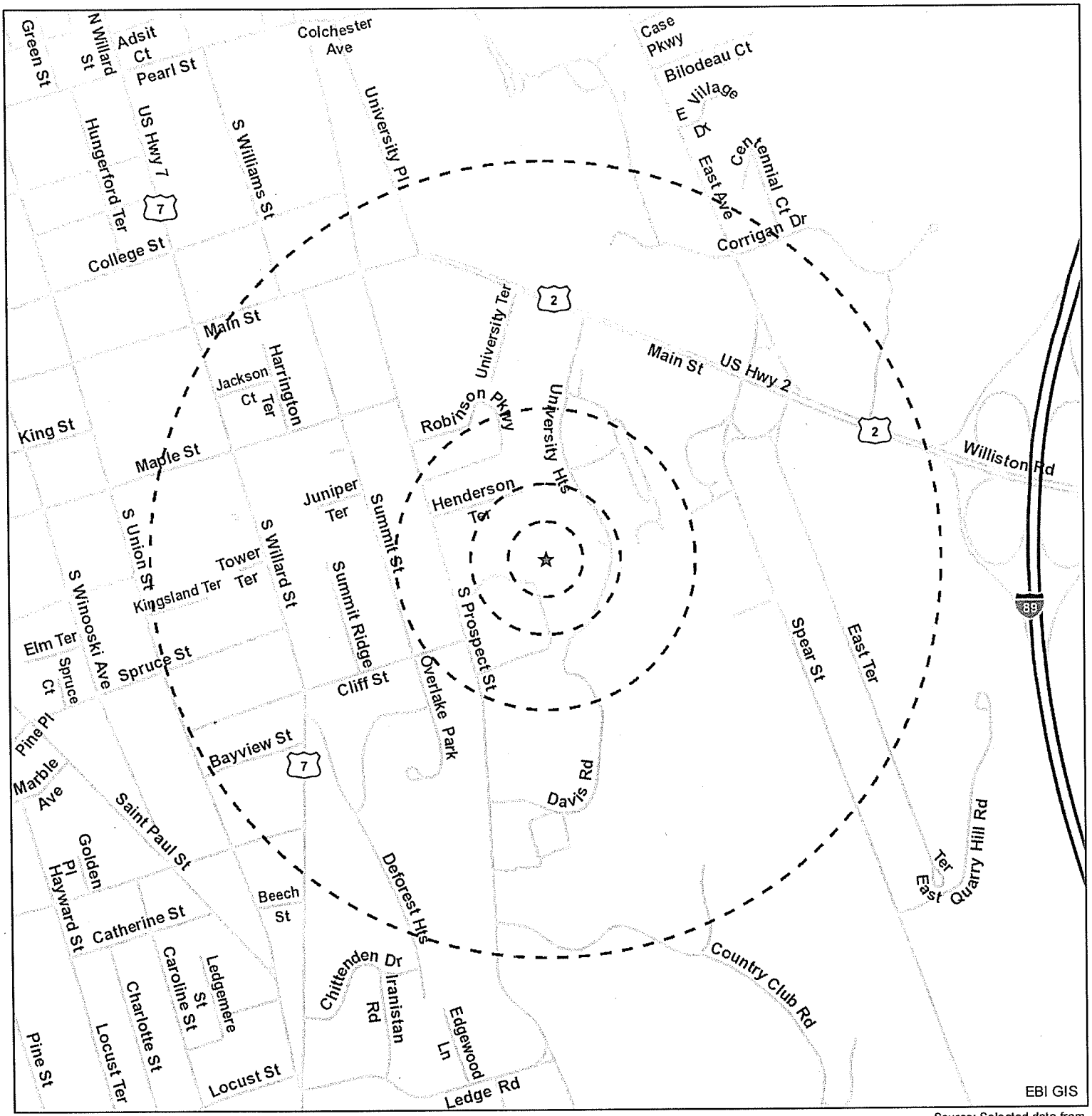


Source: Selected data from ESRI, EBI & USGS

Legend

★ Project Site

Site Radius at 250', 500', 1000' and ½ mile

N

Date: 6/19/2015

Figure 1: Site Location Map

0 500 1,000 2,000 3,000 Feet

VT6446 / FA #10133359 REDSTONE
720 SOUTH PROSPECT STREET
BURLINGTON, VT 05401

PN: 6115003138

EBI Consulting
environmental | engineering | due diligence

PROJECT SUMMARY

SITE NUMBER:	VT6446
SITE NAME:	REDSTONE
SITE ADDRESS:	720 SOUTH PROSPECT STREET
PROPERTY OWNER:	CITY DPW WATER/WASTEWATER DEPT. PO BOX 878, 234 PENNY LANE BURLINGTON, VT 05401
MAP #	N/A
PARCEL #	050 - 4 - 099 - 000
AREA OF PARCEL	0.32 ACRES
CURRENT LAND USE:	INDUSTRIAL
APPLICANT:	AT&T MOBILITY 550 COCHITUATE RD, #13 & 14 FRAMINGHAM, MA 01701
CONTACT PERSON:	DAVID COOPER
CONTACT PHONE NO.:	(484) 683-5349

ZONING DISTRICT

CITY OF BURLINGTON: INDUSTRIAL

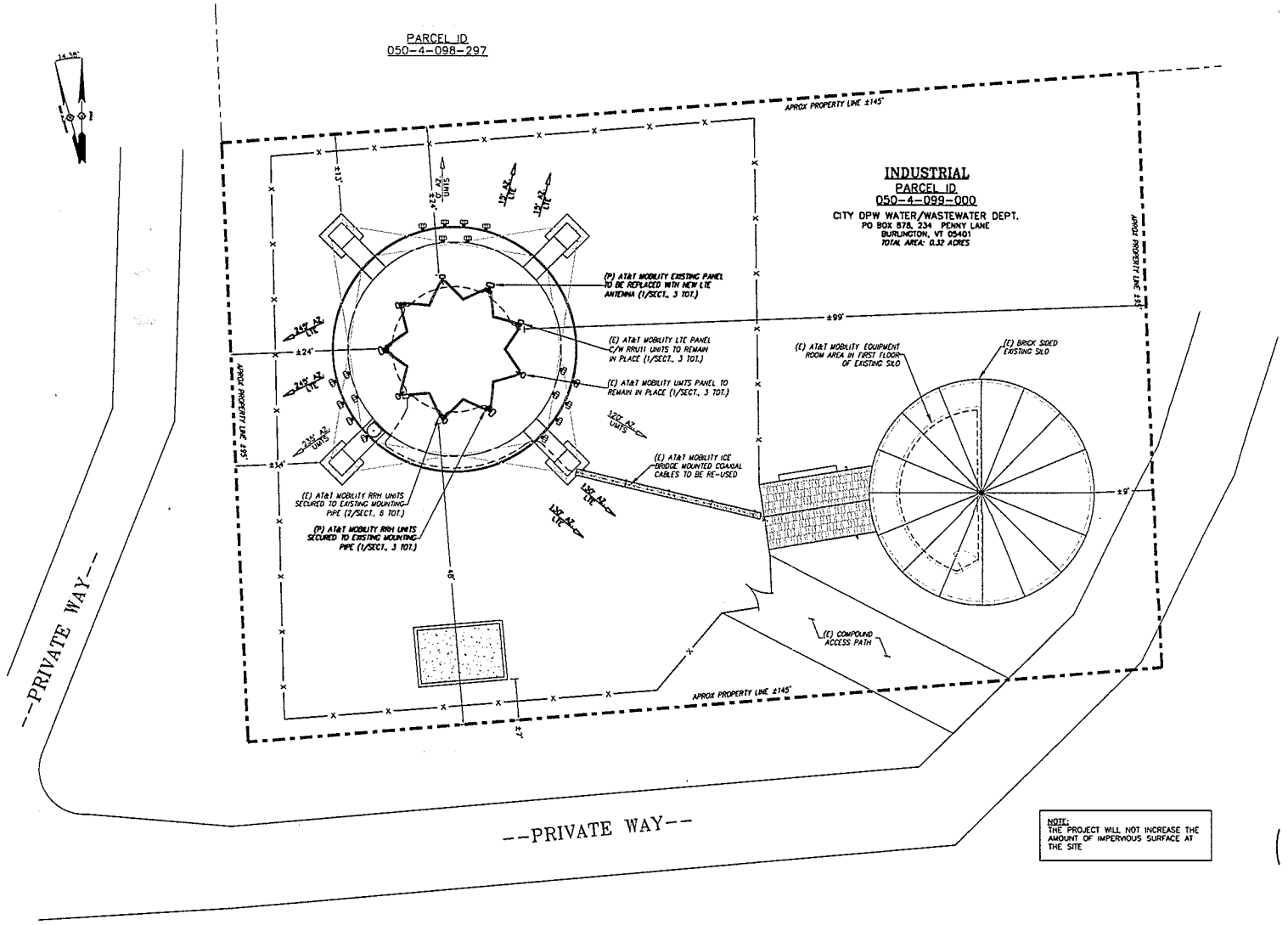
HANDICAP REQUIREMENTS:

FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION.
HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

SETBACK DISTANCE TO PROPERTY BOUNDARIES	
SETBACK DISTANCES FROM STRUCTURE BASE	FRONT=±40', SIDE=±24'/±99' REAR =±24'
SETBACK DISTANCES FROM NEAREST STRUCTURE	FRONT=±7', SIDE=±14'/±9' REAR =±13'

GENERAL NOTES:

1. PROPERTY LINE INFORMATION (WHEN APPLICABLE) WAS PREPARED USING TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS A BOUNDARY SURVEY.
2. NO NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
3. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
4. CONNECTION TO ELECTRICAL & TELEPHONE UTILITIES TO BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY.
5. SUBCONTRACTOR TO VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION. SEE ANTENNA CONFIGURATION SHEETS FOR SITE SPECIFIC DETAILS.
6. SUBCONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION.
8. THERE ARE NO TOPOGRAPHIC CHANGES BEING PROPOSED UNDER THE CURRENT APPLICATION.
9. NO TREE CLEARING IS PLANNED UNDER THE PROPOSED PROJECT.
10. PROJECT WILL COMPLY WITH THE LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL ISSUED BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION



SITE PLAN (1/03)
SCALE: 1" = 8'-0"

GRAPHIC SCALE
(IN FEET)
1 inch = 8 ft

NOTE:
THE PROJECT WILL NOT INCREASE THE AMOUNT OF IMPERVIOUS SURFACE AT THE SITE

VRG
VERTICAL RESOURCES GRP.
489 Washington Street
Auburn, MA 01501
Tel. (508) 981-9590
Fax (508) 519-8939
mnobre@verticalresourcesgrp.com

EMPIRE telecom
EMPIRE TELECOM USA, LLC
16 ESQUIRE ROAD
BILLERICA, MA 01821

SITE NUMBER: VT6446
SITE NAME:
REDSTONE
703 SOUTH PROSPECT STREET
BURLINGTON, VT 05401
CHITTENDEN COUNTY

at&t Mobility
550 COCHITUATE RD
SUITES 13 & 14
FRAMINGHAM, MA 01701

NO.	DATE	REVISION	BY	CHK	APP'D
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3	03/27/15	GENERAL REVISIONS	ELP		
2	03/18/15	GENERAL REVISIONS	ELP		
1	03/15/15	FOR REVIEW	ELP		
A	02/15/15	FOR REVIEW	ELP		

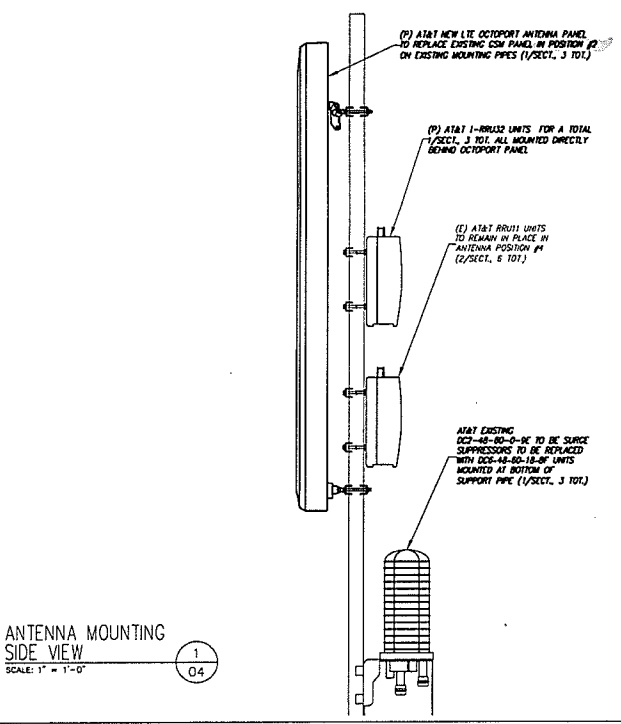
SCALE | DESIGNED BY: M.R. | DRAWN BY: C.A.M.

STATE OF VERMONT — JAMES P. STRUCK — No. 2218 — REGISTERED PROFESSIONAL ENGINEER

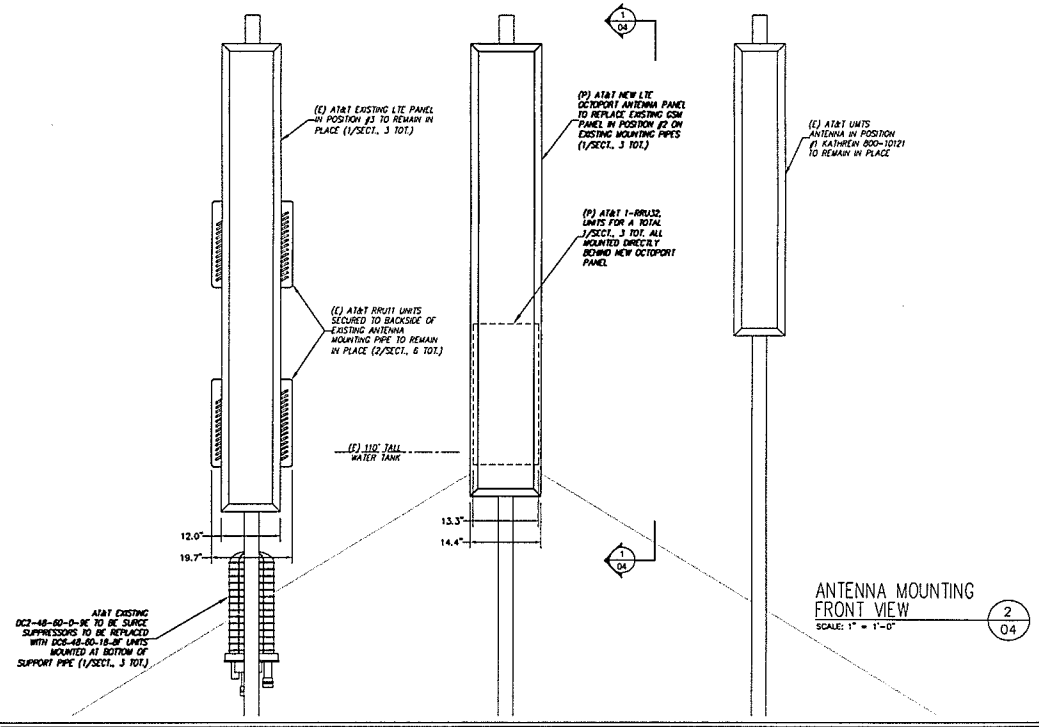
AT&T MOBILITY

SITE PLAN

JOB NUMBER	DRAWING NUMBER	REV
50-145	03	3



ANTENNA MOUNTING
SIDE VIEW
SCALE: 1" = 1'-0"
1
04



ANTENNA MOUNTING
FRONT VIEW
SCALE: 1" = 1'-0"
2
04

EXISTING ANTENNA SCHEDULE

SECTOR	POSITION	MODEL	SIZE
ALPHA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
ALPHA	#2	KATHREIN 800-10121	54.5"x10.3"x6"
ALPHA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"
BETA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
BETA	#2	KATHREIN 800-10121	54.5"x10.3"x6"
BETA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"
GAMMA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
GAMMA	#2	KATHREIN 800-10121	54.5"x10.3"x6"
GAMMA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"

PROPOSED ANTENNA SCHEDULE

SECTOR	POSITION	MODEL	SIZE
ALPHA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
ALPHA	#2	CCI OPA-65R-LCUU-H8	92.7"x14.4"x7.4"
ALPHA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"
BETA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
BETA	#2	CCI OPA-65R-LCUU-H8	92.7"x14.4"x7.4"
BETA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"
GAMMA	#1	KATHREIN 800-10121	54.5"x10.3"x6"
GAMMA	#2	CCI OPA-65R-LCUU-H8	92.7"x14.4"x7.4"
GAMMA	#3	KMW AM-X-CD-17-65-00T-RET	96"x11.8"x6"

PROJECT INFORMATION & DIMENSIONS

	EXISTING	PROPOSED	NET INCREASE
SURFACE AREA OF THE FACES OF THE AT&T EQUIPMENT ON THE SUPPORT STRUCTURE	ANTENNAS: KATHREIN 800-10121 = 6x54.5"x10.3" = 23.3 SqFt KMW AM-X-CD-17-65-00T-RET = 3x96"x11.8" = 23.6 SqFt RRU UNITS ERICSSON RRU-11 = 6x(19.7"-11.8")x18.5" = 6.1 SqFt (PARTIALLY EXPOSED) SURGE SUPPRESSOR RAYCAP DC2-48-60-0-9E = 3x10.25"x10.25"= 2.18 SqFt TOTAL EXISTING FACIAL SURFACE AREA = 55.2 SqFt	ANTENNAS: KATHREIN 800-10121 = 3x54.5"x10.3" = 11.7 SqFt KMW AM-X-CD-17-65-00T-RET = 3x96"x11.8" = 23.6 SqFt CCI OPA-65R-LCUU-H8 = 3x92.7"x14.4" = 22.1 SqFt TOTAL ANTENNA PANELS = 62.4 SqFt RRU UNITS ERICSSON RRU-11 = 6x(19.7"-11.8")x18.5" = 6.1 SqFt (PARTIALLY EXPOSED) ERICSSON RRU-32 = 3x(13.3"-14.4")x29.9" = COMPLETELY BEHIND ANTENNA TOTAL RRU UNITS = 6.1 SqFt SURGE SUPPRESSOR RAYCAP DCE-48-60-18 = 3x24"x12" = 6.0 SqFt TOTAL PROPOSED FACIAL SURFACE AREA = 74.5 SqFt	TOTAL EXISTING FACIAL SURFACE AREA = 55.2 SqFt TOTAL PROPOSED FACIAL SURFACE AREA = 74.5 SqFt NET INCREASE IN FACIAL SURFACE AREA = 19.3 SqFt
MAX VERTICAL EXTENSION FROM SUPPORT STRUCTURE	±7'-0"	±7'-0"	0 Ft
MAX HORIZONTAL EXTENSION FROM SUPPORT STRUCTURE	0'-0"	0'-0"	0 Ft
IMPERVIOUS SURFACE ADDED TO SITE	N/A	0 SqFt	0 SqFt

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16 ESQUIRE ROAD
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SITE NUMBER: VT6446
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CHITTENDEN COUNTY

at&t Mobility
550 COCHITUATE RD
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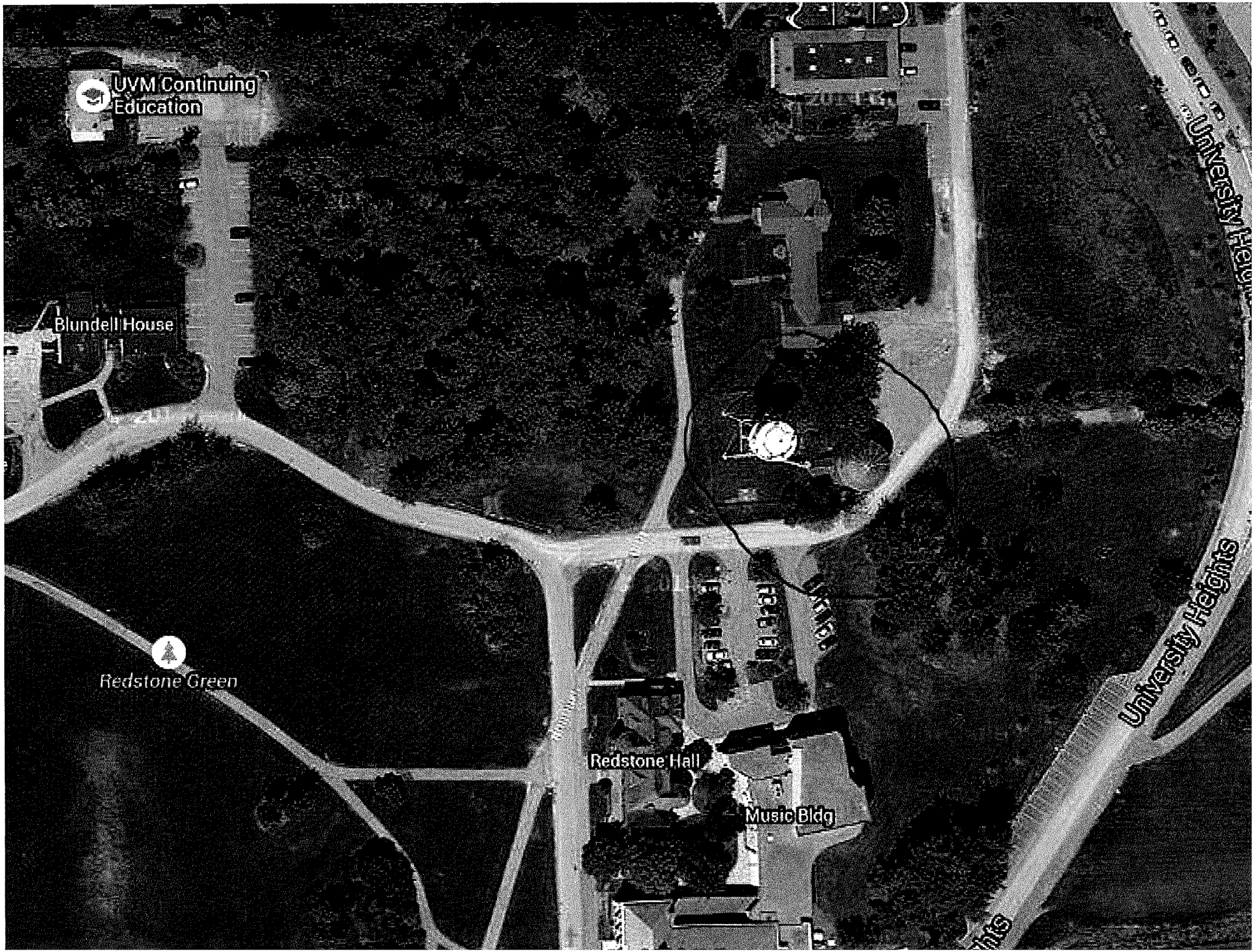
SCALE | DESIGNED BY: M.N. | DRAWN BY: G.A.M.

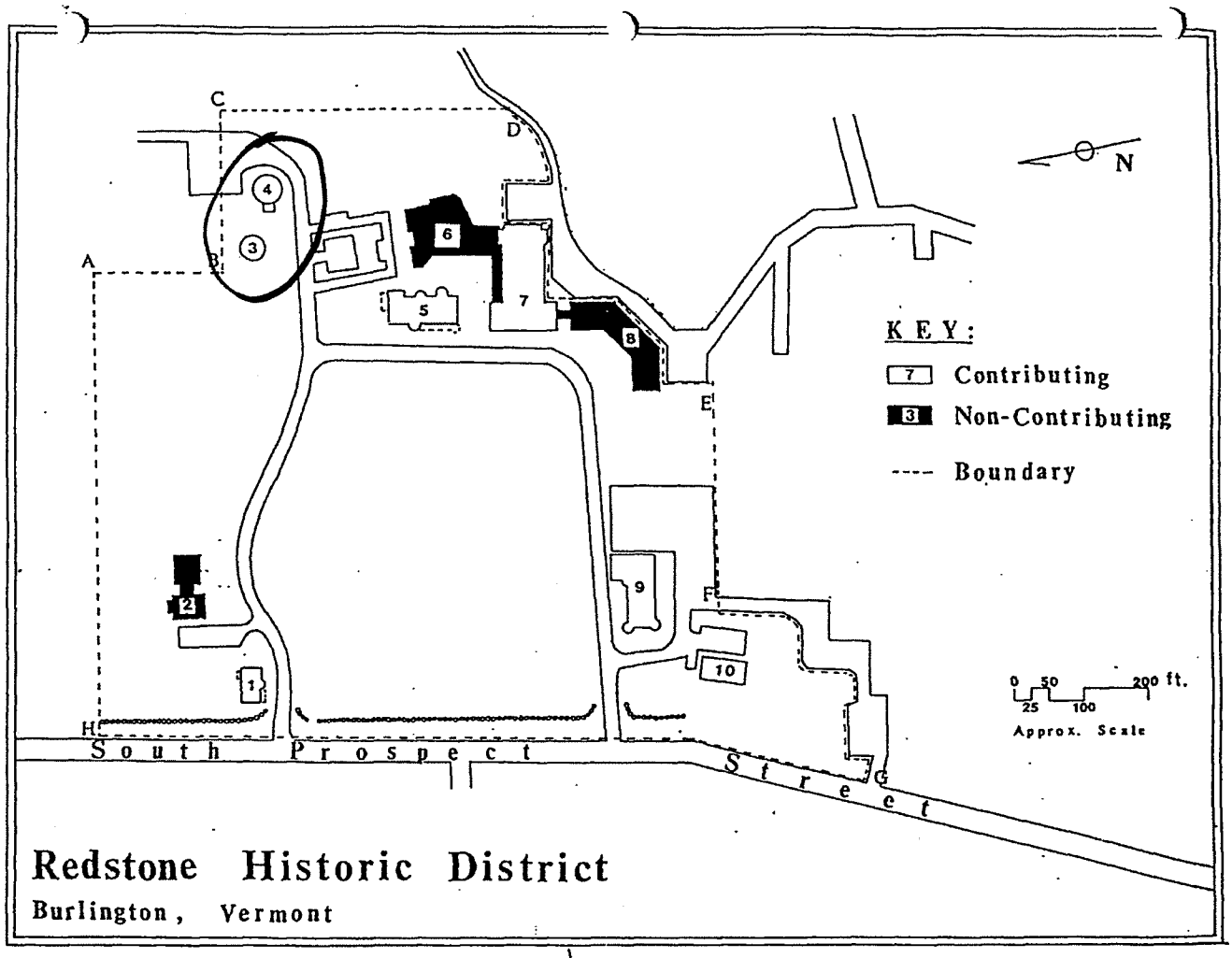
STATE OF VERMONT — JAMES P. STEELE — No. 2838 — REGISTERED PROFESSIONAL ENGINEER

AT&T MOBILITY

ANTENNA DETAILS

JOB NUMBER	DRAWING NUMBER	REV.
50-145	04	3


UVM Continuing Education
Blundell House
Redstone Green
Redstone Hall
Music Bldg
University Heights


C
D
A
B
4
3
6
5
7
8
E
N
KEY:
7 Contributing
3 Non-Contributing
---- Boundary
2
1
9
F
10
0 50 200 ft.
25 100
Approx. Scale
H
South Prospect Street
G
Redstone Historic District
Burlington, Vermont

since the Buell estate was purchased in 1921. Other than the placement of screens on the entrance porch and the replacement of the roof's original wood shingles with asphalt ones sometime after the University bought the property, the lodge's exterior has undergone relatively little change.

2. Blundell House, 1960-61 [non-contributing].

The International Style structure to the northeast of Redstone Lodge (#1) was designed by the Burlington architecture firm Freeman-French Freeman in 1960 for use as a home management laboratory for seniors in the University's Home Economics Program and was officially dedicated on December 9, 1961. The flat-roofed, single-story structure is composed of two rectangular sections bridged by a narrow entrance bay. The house's walls are covered with vertical boards above its concrete foundation and fenestrated with large, single-paned, rectangular windows of varying size, most of which are grouped in horizontal bands. A small, rectangular shed is connected to the back of the house's western section by the flat roof and cement foundation. The house is currently (1987) occupied by the Center for Cultural Pluralism.

3. Elevated High Service Water Tank, 1934-35.

The elevated high service water tank was erected for the city by the Pittsburgh DeMoines Company to supply proper service for the University of Vermont's larger buildings and provide a sufficient amount of water to meet the demand of people living outside the city limits. The 150,000 gallon, cylindrical, steel-plated tank is approximately 37 feet in diameter with a conical roof and a semi-spherical bottom that is connected to the ground by a tube approximately 7 feet in diameter. The light green, painted tank is elevated 90 feet above the ground--63 feet higher than the old high service tank (#4)--and held in place by four slightly canted steel legs joined to the tank just below a walkway surrounding the base of its cylindrical, central section. The legs are connected at their midpoints by horizontal steel bands and further stabilized with crisscrossing steel rods above and below the bands on all sides.

4. High Service Water Tower, 1880-81, 1890-91.

The old high service water tower is approximately 35 feet in diameter and 45 feet in height with a 10 x 16 foot, single-story, gable-roofed addition on its west

side. The tower's hollow, common bond brick walls are pointed with scored mortar highlighted by white paint and rest on a rubblework foundation constructed from 171 cubic yards of stone removed from the trenches dug for the new water pipes. On its south side is a boarded-up, segmentally-arched doorway with a granite sill and step, and halfway up its north side is a small, 2-light, segmentally-arched window. Its 16-sided polygonal roof is covered by red slate shingles with bands of fishscale shaped green and red slates decorating the central portion and a copper finial at its peak.

The west entrance building was added sometime before 1932. Its brick veneer walls rise from a concrete foundation up to a slate-shingled gable roof with cornice returns. The addition contains large, boarded-up, openings spanned by flat arches on its north and south facades and a doorway with a flat arch on its gable end.

The water tower was constructed in 1880-81 to protect the new 106,000 gallon high service tank located on land purchased by the city from F. J. Hendee and supplied with water pumped up to it from the reservoir on Main Street across from University Place. When completed in 1881, the boiler plate tank erected by B. S. Nichols and Co. measured 30 feet in diameter and 20 feet in height and supplied water to approximately 200 residents, the University of Vermont, and the newly constructed Mary Fletcher Hospital. In 1890, the water tower's roof and brick wall were raised to accommodate the addition of an extra twelve feet to the tank's height and an extra 63,617 gallons to its capacity the following year. With the erection of the elevated high service water tank in 1934-35, the old tank was repaired and maintained for use during maintenance to the new tank and emergencies.

5. Redstone Hall, 1888-89, 1921-22, 1974.

The Richardsonian Romanesque style Redstone Hall is rectangular in plan with a large central tower on its front (west) facade. The 2-story structure's random-coursed, rock-faced ashlar walls are constructed of redstone blocks originally pointed with a matching, tinted mortar and finished with black mortar with incised red lines. The redstone walls are battered from the granite foundation up to the first floor sill line and rise up to a steeply-pitched, wood-shingled hip roof that has slightly flared eaves with exposed rafter tails and is broken up by dormers on three slopes and three high, narrow, asymmetrically placed chimneys.

The residence hall's front elevation is dominated by the round central tower with a conical cap whose copper peak rises above the main roof's ridgeline. The main entrance, to the tower's right, is recessed behind a large, round arch with blackened redstone voussoirs and a tooled soffit. The 2-panel, single-light, oak

PROJECT INFORMATION

SCOPE OF WORK	UNMANNED COMMUNICATIONS FACILITY MODIFICATIONS WITH PROPOSED REPLACEMENT OF THREE EXISTING ANTENNAS, THE ADDITION OF THREE NEW RRU UNITS AND THE REPLACEMENT OF THREE EXISTING SURGE SUPPRESSORS
SITE NUMBER:	VT6446
SITE NAME:	REDSTONE
SITE ADDRESS:	720 SOUTH PROSPECT STREET BURLINGTON, VT 05401
PROPERTY OWNER:	CITY DPW WATER/WASTEWATER DEPT. PO BOX 878 234 PENNY LANE BURLINGTON, VT 05401
APPLICANT:	AT&T MOBILITY 550 COCHITUATE RD SUITES 13 & 14 FRAMINGHAM, MA 01701
CONTACT:	TEL 800-638-2822
COORDINATES	LAT. N44°28'14.7" LONG. W73°11'51.5"
HEIGHT OF WATER TANK:	±110'
AT&T ANTENNA CENTERLINE:	113'-0" / 114'-8"
SITE PARCEL NO.:	050-4-099-000
CURRENT ZONING:	INDUSTRIAL
HORIZONTAL DATUM:	(NAD) 1983

at&t Mobility

SITE NUMBER: VT6446
SITE NAME: REDSTONE

DRAWING INDEX

		REV
01	TITLE SHEET	3
02	NOTES	3
03	SITE PLAN	3
04	ANTENNA DETAILS	3
05	ENLARGED SITE PLAN & EQUIPMENT PLAN	3
06	ELEVATION VIEW & ANTENNA LAYOUT	3
07	GROUNDING DETAILS	3

DIG SAFE 1-888-DIG-SAFE

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-DIG-SAFE

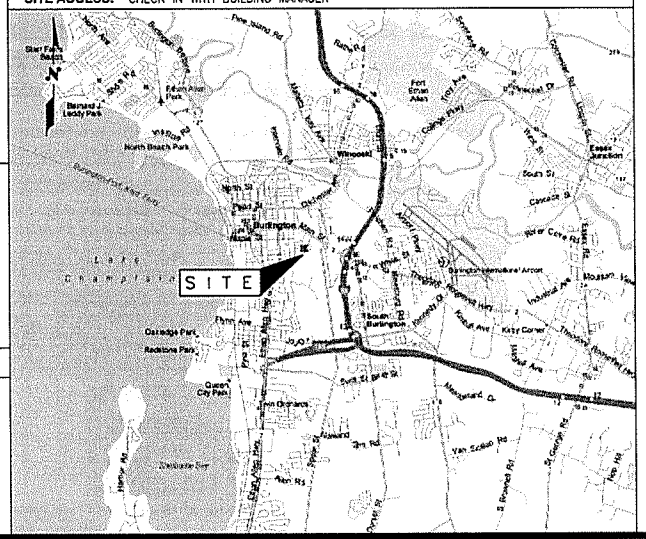
CONTACT & UTILITY INFORMATION

	CONTACT	COMPANY	PHONE NO.
ENGINEERING:	MIGUEL NOBRE	VRG	(508) 981-9590
SITE ACQUISITION:	DAVID COOPER	EMPIRE	(484) 683-5349
CONSTRUCTION:	BILL DANIELS	EMPIRE	(484) 683-5349
UTILITIES			
POWER:	WORK REQUEST GROUP	NATIONAL GRID	(800) 375-7405
TELCO:	-	VERIZON	

LOCATION MAP

DIRECTIONS: FROM FRAMINGHAM TAKE I-90 WEST TO EXIT 4. PROCEED NORTH ON I-91. TAKE I-91 NORTH, TAKE EXIT 10N TOWARDS I-89 NORTH. TAKE I89 NORTH EXIT 14W. PROCEED WEST ON RT-2. TURN LEFT ON UNIVERSITY HEIGHTS RD. LOOK FOR WATER TANK ON RIGHT.

SITE ACCESS: CHECK IN WITH BUILDING MANAGER



APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARDS AND SPECIFICATIONS. SUBCONTRACTOR 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.

BUILDING CODE:
MASSACHUSETTS BUILDING CODE LATEST EDITION

ELECTRICAL CODE:
NATIONAL ELECTRICAL CODE (NEC 2008) LATEST EDITION
SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
AMERICAN NATIONAL STANDARDS INSTITUTE/TELECOMMUNICATIONS INDUSTRY ASSOCIATION (ANSI/TIA) 222-G AS APPLICABLE. STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

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.

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A	02/13/15	FOR REVIEW	ELP		

SCALE | DESIGNED BY: M.N. | DRAWN BY: C.A.M.

STATE OF VERMONT — STEVEN P. STRONG — No. 2232

AT&T MOBILITY

TITLE SHEET

JOB NUMBER	DRAWING NUMBER	REV
50-145	01	3

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   - CONTRACTOR - PRIME CONTRACTOR
   - SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
   - OWNER - AT&T WIRELESS
   - OEM - ORIGINAL EQUIPMENT MANUFACTURER

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.

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.

4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.

8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. ROUTING OF CONDUIT FOR POWER AND TELCO SHALL BE APPROVED BY OWNER OF SITE.

9. 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.

10. 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.

11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

12. **SUBCONTRACTOR SHALL NOTIFY PROPERTY OWNER BURLINGTON WATER AT 802-863-4501 TWENTY-FOUR (24) HOURS IN ADVANCE OF STARTING WORK AT THIS SITE.**

SITE WORK GENERAL NOTES

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

2. ALL EXISTING 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 CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.

3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.

4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

5. ALL EXISTING 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 CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.

6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.

7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE OWNER SPECIFICATION FOR SITE SIGNAGE.

8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE TRANSMISSION EQUIPMENT AND TOWER AREAS.

9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE DETAIL 303.

11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.

12. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

13. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR CONSTRUCTION OF RADIO ACCESS NETWORK SITES

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 (HOT-DIP) UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".

2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.

3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. STEEL FASTENER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT-DIP)

4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.

5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD, HILTI OR APPROVED EQUAL.

6. ALL STRUCTURAL STEEL SHALL BE SUPPLIED IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR CONSTRUCTION OF RADIO ACCESS NETWORK SITES.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.......3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:

   #6 AND LARGER ....2 INCH
   #5 AND SMALLER & WWF..............1 1/2 INCH

   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

   SLAB AND WALL ....3/4 INCH
   BEAMS AND COLUMNS.....................1 1/2 INCH

5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD HILTI OR APPROVED EQUAL.

7. CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC 1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
   (A) RESULTS OF CONCRETE CYLINDER TESTS PERFORMED AT THE SUPPLIER'S PLANT.

   (B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.

   FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.

8. AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.

9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

10. ALL CONCRETE SHALL BE SUPPLIED IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR CONSTRUCTION OF RADIO ACCESS NETWORK SITES.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.

2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.

3. AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.

4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.

5. AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOF ROLL THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL, AND COMPACTED AS STATED ABOVE.

6. COMPACTION CRITERIA FOR OTHER FILL AREAS ON SITE SHALL MEET THE SAME REQUIREMENTS AS NOTED ABOVE.

7. SOIL COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR CONSTRUCTION OF RADIO ACCESS NETWORK SITES

COMPACTION EQUIPMENT:

HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR

ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.

4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.

5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.

7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PERMANENT LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S). NO HAND WRITTEN LABELS ALLOWED.

8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED. NO HAND WRITTEN LABELS ALLOWED.

9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.

13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).

14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

ELECTRICAL INSTALLATION NOTES (cont.)

15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.

21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

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NO.	DATE	REVISION	BY	CHK	APP'D
4	04/10/15	GENERAL REVISIONS	ELP		
3	03/27/15	GENERAL REVISIONS	ELP		
2	03/18/15	GENERAL REVISIONS	ELP		
1	03/15/15	FOR REVIEW	ELP		
0	02/15/15	FOR REVIEW	ELP		

SCALE | DESIGNED BY: M.N. | DRAWN BY: G.A.M.

STATE OF VERMONT ★ JAMES P. STRICKE ★ No. 2938 PROFESSIONAL ENGINEER

AT&T MOBILITY

NOTES

JOB NUMBER	DRAWING NUMBER	REV
50-145	02	3