

SITE NAME: WNKC GLOUCESTER, MA

LOCATION: 285 BOSTON ST, TOPSFIELD, MA 01983

180" SELF SUPPORT TOWER 42.639633°, -70.938986°

COLOCATION

SITE INFORMATION

TOWER OWNER: BLUE SKY TOWER

SITE ADDRESS: 285 BOSTON ST TOPSFIELD, MA 01983

COUNTY: **ESSEX**

LATITUDE: 42.639633° -70.938986° 227'' (AMSL) LONGITUDE: GROUND ELEVATION:

OCCUPANCY TYPE: ZONING JURISDICTION: ZONING CODE:

PARCEL NUMBER: MAP 41 LOT 90

UNMANNED TOWN OF TOPSFIELD

NATIONAL GRID POWER PROVIDER: TELCO PROVIDER:

CONTACT INFORMATION

SITE ACQUISITION:
POWDER RIVER DEVELOPMENT SERVICES, LLC.
408 S. EAGLE ROAD, SUITE 200
EAGLE, ID 83616

CONTACT: CAMERON COLGAN PHONE: 208.871.0773

EMAIL: cameron.colgan@powderriverdev.com

A&E SERVICES:

POWDER RIVER DEVELOPMENT SERVICES, LLC.

408 S. EAGLE ROAD, SUITE 200

CONTACT: JACOB DAHL PHONE: 208.938.8844

EMAIL: jacob.dahl@powderriverdev.com

EDUCATION MEDIA FOUNDATION 5700 WEST OAKS BLVD ROCKLIN, CA 95765 CONTACT: SUSAN O'COY PHONE: 916.251.2245

VICINITY MAP SITE PHOTO -70.938986

DRIVING DIRECTIONS

DIRECTIONS FROM LOGAN INTERNATIONAL AIRPORT:

DEPART AIRPORT HEADING northeast on Terminal Rd toward Terminal C. Keep straight to get onto Terminal Access Rd. Keep right to stay on Terminal Access Rd. Take the ramp on the right for MA—1A S. Keep right, heading toward Gov't Center / Sumner Tunnel. Take the ramp on the left and follow signs for I—93 North. At Exit 28A, head right on the ramp for I—95 North / MA—128 North toward Peabody. Take the ramp on the right for I—95 North and head toward NH / Portsmouth. At Exit 70, head right on the ramp for US—1 toward Topsfield. Turn right. Turn left. Arrive at your destination on the left

APPLICABLE CODES

BUILDING CODE 2018 IBC ELECTRICAL CODE 2017 NEC

DRAWING INDEX		
SHEET NO.	DESCRIPTION	REV
T-1	TITLE SHEET	0
C-1	SITE PLAN	0
C-2	EQUIPMENT DETAILS	0
		<u> </u>

SCOPE OF WORK

INSTALL (1) 1.8m SAT DISH ON GROUND
 INSTALL (1) 4'x6' CONCRETE PAD ON GROUND
 INSTALL (1) 6' MOUNTING PIPE ON GROUND
 INSTALL (1) UNDERGROUND CONDUIT ON GROUND
 INSTALL (1) CABLE ON GROUND





BU	SINESS L	ICENSE #:	N/A
		REVISIONS	
REV	DATE	DESCRIPTION	INT
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0	01/05/23	100% CONSTRUCTION	JDB
A	11/07/22	ISSUED FOR REVIEW 90%	JDB
RE	VIEWED B	Y:	BMW

SITE INFORMATION

SITE NAME: WNKC GLOUCESTER, MA

FCC #: ----

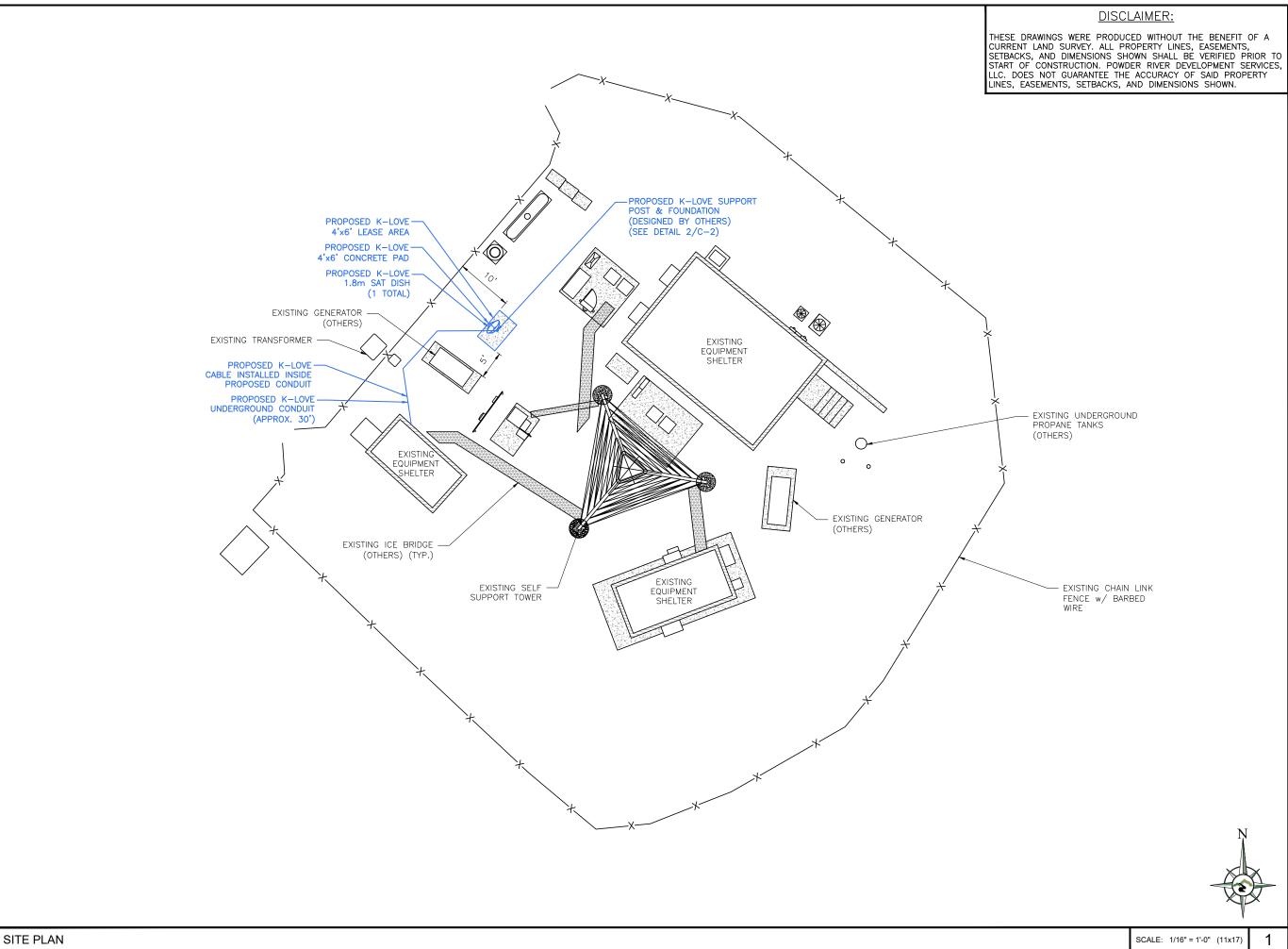
285 BOSTON ST TOPSFIELD, MA 01983 **ESSEX COUNTY**

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1









BU	BUSINESS LICENSE #:		
REVISIONS			
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SITE INFORMATION

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SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C-1

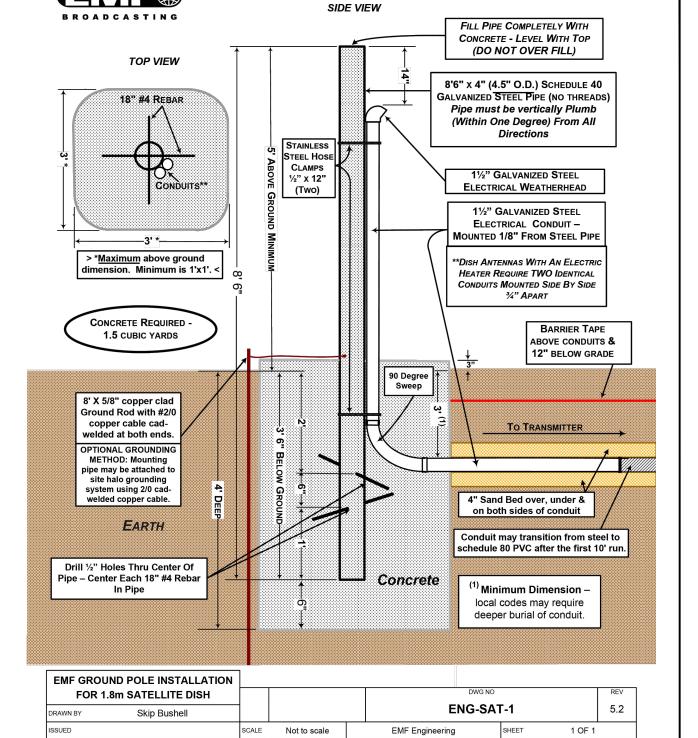






SPECIFICATIONS

Type 183 1.8 m Ku-band RxTx Class III Antenna System



Antenna Model Intelsat Standard		62 - 1835611
Intelsat Standard		
		Standard G & K2 (IESS 601
Approval Code		IA027B00
(See Our Website	e for a Complete List of Type A	pprovals)
RF Performan	ce	
Effective Aperture		1.8 m (71 in)
Operating Frequency	Tx	13.75 - 14.50 GHz 10.70 - 12.75 GHz
Polarization		Linear, Orthogonal
	Тх	46.8 dBi @ 14.3 GHz 45.3 dBi @ 12.0 GHz
3 dB Beamwidth	.Tx	0.79° @ 14.3 GHz 0.99° @ 12.0 GHz
Sidelobe Envelope (Tx, Co	p-Pol dBi)	
	1° < θ < 20° 20° < θ < 26.3° 26.3° < θ < 48° 48° < θ < 180°	29 - 25 Log θ -3.5 32 - 25 Log θ -10
Antenna Cross-Polarization	1	30 dB (On Axis) 26 dB in .5 dB Contour
Antenna Noise	100 5	400.14
Temperature	10° El 20° El 30° El	43° K 28° K 23° K
VSWR	Tx	1.3:1 1.5:1
Isolation (Port to Port) .	Tx	80 dB 35 dB

(All specifications typical)

Mechanical Pe	rformance	
Reflector Material	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Glass Fiber Reinforced Polyester
Antenna Optics		One-Piece Offset Feed Prime Focus
Mount Type		Elevation over Azimuth
Elevation Adjustment Rang	je	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	9	360° Continuous ±10° Fine Adjustment
Feed Support		Rectangular Section with Alignment Legs
Mast Pipe Interface		114 mm (4.50 in) Diameter
Wind Loading	Operational	80 km/h (50 mph) 200 km/h (125 mph)
Temperature		-50°C to 80°C
Humidity		0 to 100% (Condensing)
Atmosphere		Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation		360 BTU/h/ft²
Shock and Vibration		As Encountered During Shipping and Handlina





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EQUIPMENT DETAILS

SHEET NUMBER:

SCALE: N.T.S.

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