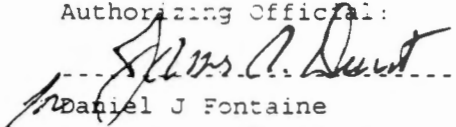


FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION LICENSEOfficial Mailing Address:
-----GREAT SCOTT BROADCASTING
324 MAUGERS MILL ROAD
POTTSTOWN, PA 19464

Authorizing Official:


Daniel J. Fontaine
Supervisory Engineer
Audio Services Division
Mass Media Bureau

Grant Date: SEP 30 1998

Call Sign: WOCQ

This license expires 3:00 a.m.
local time, October 01, 2003

License File No.: BLH-980630KF

This license covers Permit No.: BPH-970929IE

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee:

GREAT SCOTT BROADCASTING

Station Location:

MD-BERLIN

Frequency MHz : 103.9

Channel: 28C

Class: A

Hours of Operation: Unlimited

Main Studio Address:

MD-11210 BELL ROAD, WHALEYVILLE

Transmitter Location (address or description):

MD-11210 BELL ROAD, WHALEYVILLE

Remote Control Point Address:

DE - WZBH-701 N. DUPONT HIGHWAY, GEORGETOWN

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670
of the Commission's Rules.

Transmitter output power: 7.4 kW

Antenna type: (directional or non-directional): Non-Directional

Description: ERI FML-2E, 2 SECTIONS

Antenna Coordinates: North Latitude :	38	22	58
West Longitude :	75	18	58

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW).....:	6.0	6.0
Height of radiation center above ground (Meters).....:	102	102
Height of radiation center above mean sea level (Meters).....:	111	111
Height of radiation center above average terrain (Meters).....:	100	100

Antenna structure registration number: 1036004

Overall height of antenna structure above ground (including obstruction
lighting if any) see the registration for this antenna structure.

1.23

TABLE 3.1

TECHNICAL DATA FOR MULTIPLE BAY INSTALLATIONS - END FED

ARRIS TYPE	POWER GAIN		db GAIN		FIELD GAIN ¹		POWER APPROX ²	WGT ³	WIN
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	RATING	LENGTH	LBS.LOA
ML-1E	0.4611	0.4611	-3.3623	-3.3623	0.6790	0.6790	9kw	63	116
ML-2E	0.9971	0.9971	-0.0128	-0.0128	0.9985	0.9985	9kw	10	118 226
ML-3E	1.5588	1.5588	1.9278	1.9278	1.2485	1.2485	9kw	20	173 337
ML-4E	2.1332	2.1332	3.2903	3.2903	1.4605	1.4605	9kw	30	228 447
ML-5E	2.7154	2.7154	4.3384	4.3384	1.6478	1.6478	9kw	40	283 557
ML-6E	3.3028	3.3028	5.1888	5.1888	1.8174	1.8174	9kw	50	338 668
ML-7E	3.8935	3.8935	5.9034	5.9034	1.9732	1.9732	9kw	60	393 779
ML-8E	4.4872	4.4872	6.5197	6.5197	2.1183	2.1183	9kw	70	448 890

1. To obtain the effective free space field intensity at one mile in MV/M for one kilowatt antenna power, multiply field gain by 137.6.
2. When determining coax length, add six feet to antenna length.
3. The weights given are with brackets, and the interbay transmission line and transformer section are all included in the weight.
4. Windload based on 50 psf on flat surfaces and 33 psf for cylindrical surfaces (actual wind velocity 110 mph). Computed for a 100 MHz antenna with mounting brackets.

Proposal Number: 16F6015

Page: 2

ITEM NO.	QTY.	STOCK NO.	DESCRIPTION	UNIT PRICE	TOTAL
1	1	710-0353-000	<u>Harris FML-2E</u> Low Power Circularly Polarized FM Antenna. Frequency 103.9 MHz Mounting Brackets ☐ Face ☒ Pole ☐ Leg For Mounting on ☒ Pole or ☐ Uniform Face Tower Tower Make _____ Tower Model # _____ Face Width _____ Leg Diameter _____ * Pole Diameter _____ * Minimum 2 inch diameter (3-1/2 inch with radomes) leg required for leg mounting. On towers with smaller legs, it will be necessary to face mount the antenna or add adjacent leg bracket braces at a cost of \$85 per bay. Harris FML Antenna includes: * Excellent bandwidth which minimizes VSWR problems. * Rugged brass element construction with stainless steel support brackets impedes corrosion. * Internal element feed point minimizes VSWR changes due to inclement weather. <u>HARRIS FML SERIES ANTENNA OPTIONS</u>	3,681.00	3,681.00
2	1	710-0422-000	FML Quarter Wave DC Shorting Stub	333.00	333.00
3	1	SPECIAL	PATTERN STUDY	2,960.00	2,960.00
4	1	SPECIAL	VERTICAL OPTIMAZATION	230.00	230.00
TOTAL, GROUP FM ANTENNA EQ.					\$7,204.00

FIGURE # 1
W O C Q
BERLIN MD
103.9 MHz

HORIZONTAL PLANE
RELATIVE FIELD PATTERN

OCTOBER 3, 1985

HORIZONTAL
VERTICAL

TRUE NORTH

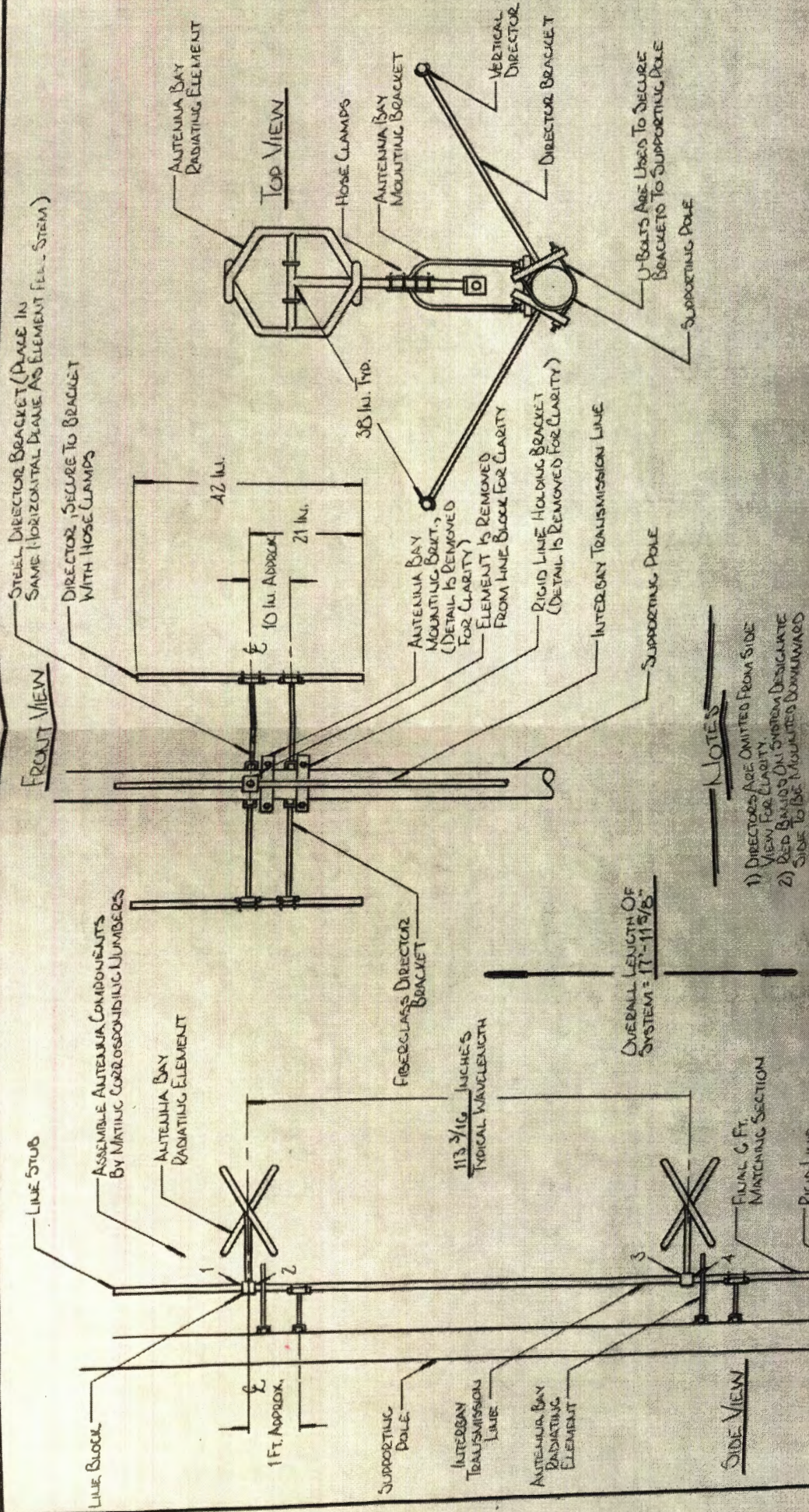
.25 .50 .75 1.00

ANTENNA ORIENTATION
NORTH 0 DEGREES EAST

R.M.S. = .75

ELECTRONICS RESEARCH, INC.
100 MARKET STREET
NEWBURGH, IN 47630

FML ELEMENT
5 9/16" O.D. POLE
STANDARD ANTENNA AND BRACKET
2 VERTICAL PARASITES ON STEEL SUPPORTS



NOTES

- 1) DIRECTORS ARE OMITTED FROM SIDE VIEW FOR CLARITY.
- 2) RED BRACKETS ON SYSTEM DESIGNATE SIDE TO BE MOUNTED DOWNWARD.

TOLERANCES		REVISIONS	
EXCEPT AS NOTED		NO.	DATE
DECIMAL	1	1	
FRACTIONAL	2	2	
ANGULAR	3	3	

INSTALLATION DRAWING

WOCQ-BERLIN, MARYLAND

FREQUENCY: 103.9 PROJECT NO: FM11866

SCALE: No. 1

DRAWN BY: CUR'D

CHECKED BY: APP'D

DATE: OCT 7/85

MATERIAL NO.

DRAWING NO.