



FACT SHEET

UNITED STATES AIR FORCE

Office of Information, Rome Air Development Center, Griffiss AFB, N.Y. 13440

F-3

VERONA TEST SITE

Rome Air Development Center's Verona Test Site is located fifteen miles southwest of Griffiss AFB, in Oneida County, New York, on approximately 512 acres of land. This is RADC's largest off-base site.

The facility consists of eight laboratory buildings, nine power stations, a headquarters building, two metal buildings called the "Butler" buildings, specially shielded and used for radio frequency measurements and research; four arctic towers, a supply building, and a Precision Angular Tracking Station (PATS).

The mission of the site is to support engineering evaluation and operational testing of electromagnetic counter-countermeasures, radar (including radar evaluators), communications, millimeter wave research, optical surveillance techniques, 3 dimensional pattern measurements of airborne and ground based antennas utilizing ground and airborne measurement instrumentation.

The twenty-five major items of electronic equipment at the facility consists of radars, communications systems, lasers and ancillary equipment especially instrumented for the collection of engineering data.

A new laboratory, the RADC Satellite Communications Laboratory,

--more--

moved to the Verona Test Site. This facility is used to test the merit of new ideas concerning long-range, point-to-point communications. Some of the areas presently being explored are new antenna configurations automatic station control, signal processing and computerized data collection.

The primary purpose of the Verona Test Site is to support RADC's mission; however, it can be made available to the Air Force, Army, Navy, and other governmental agencies, and contractors, on a cost reimbursable basis.

Verona Test Site

Rome Air Development Center's test site in the Town of Verona, New York is located approximately fifteen road miles southwest of the City of Rome. It is the largest of sixteen test sites scattered throughout New York State which serve the Center in meeting Air Force requirements in the field of ground electronic research and development.

The Air Force first conceived of such a facility to test and evaluate ground electronic equipment in 1948. Mr. Harold J. Vogel, who has been assigned to the Verona Site since its inception, was one of seven men charged with selecting a site for the Air Force. Of six possible sites under consideration, Verona was selected primarily because of its ideal topography, from both a radar screening and ground clutter view point. Other factors bearing on its selection were: the land was flat, the area thinly populated, and the site was easily accessible to Griffiss Air Force Base at Rome, New York. The 512.46 acres of land for the site was purchased from nine different individuals or estates:

Anastasia Baranowski

Charles L. Foster

Arthur Henry

Raymond W. Winterton

Elmer L. Combs

Anna T. Sullivan

Harry S. Carpenter

William M. Cassidy

Joseph M. McCutcheon

Joseph F. Agne (.11 acres leased)

Construction on the site began in 1951, at about the same time the Rome Air Development Center was officially established at Griffiss Air Force Base. Construction was completed during 1953. Temporary buildings and radar equipment were transported from the Air Force's Watson Laboratories at Red Bank, New Jersey to provide the site with operational capability during the construction period.

From this beginning, the site today includes a mile-long stretch of nine laboratory buildings, an administrative building, eight power houses, five arctic-type (enclosed) towers and twelve temperate (open) towers. Mr. Robert W. McGregor, Verona Site Commander, states that the site has a total value of \$30,000,000. During test program operations, there are an average of 100 persons on the site. The normal compliment consists of 50 permanently assigned civilian and military engineers, technicians, and administrative personnel; in addition there are 7 permanently assigned firemen and 9 permanently assigned security guards. The increase in personnel during test operations variously consist of: engineers, technicians and administrative personnel from other Center ^{ORGANIZATIONS;} private industry representatives; personnel from other branches of the armed forces; and foreign nationals who are involved in certain tests and evaluations. During some ~~xx~~ tests, the numbers of personnel at the site has swelled to ^{2.} ~~2xx~~ 200.

An important facet to the tests and evaluations conducted at Verona are the air missions flown in support of the tests. Center uses its own flight test aircraft but has also used aircraft from the Air Defense Command, ~~Tactical~~ Strategic Air Command, Tactical Air Command, the U. S. Navy, ~~and~~ ^{the} U. S. Army Helicopters and aircraft of the United Kingdom. Test aircraft, during test

periods, fly patterns from near ground-level to 50,000 feet and at ranges
3.
from the immediate vicinity of the site up to 200 miles away. ~~The technical
personnel at the site evaluate the effectiveness of the countermeasure equipment
and are able to recommend modification to keep such systems updated.~~

An Aircraft Tracking Radar System and the Precision Angular Tracking
Station ~~(KATK)~~ (PATS) are representative of the permanent electronic configurations
located at the Verona Site. There are more than 20 major radar and communications
systems which can be temporarily configured for unique testing needs. At present,
the site is assigned responsibility for supporting engineering evaluations and
operational testing of electronic counter-countermeasures radar and communications
equipments and systems. In addition, it supports the development of techniques
for insuring electromagnetic compatibility of Air Force communication⁵, ~~Electronic-~~
~~Meteorological~~ equipments, millimeter wave research, optical surveillance and
4.
antenna pattern measurements.

Notes (Verona)

1. Project Ownership Map-Dept of the AF, 4 Aug. 64, in ELSM files.
2. Interview by author with H. J. Vogel, 26 Dec. 68.
3. Interview by author with H. J. Vogel, 26 Dec. 68.
4. Mission Statement for the Verona Test Unit, from H. J. Vogel, 26 Dec. 68, in EMCVM files.

VERONAEQUIPMENT / CAPABILITIES

Nineteen radar systems, high power amplifiers, AN / GSQ-33 computer, video tape recorders, 2 measurement vans, TACAN, AN / FST-2B data processor, video integrating group, 2 ECCM groups, ECM simulator, and stable tracking platform.

USAGEPAST

Evaluation and testing of ground radars; ECM Engineering Test Facility. Master site for Active Swept Frequency Interferometer Radar (ASFIR)

PRESENT / FUTURE

Engineering eval and oper tests of ECCM, RFI Reduction techniques, radar, communications, millimeter wave research, optical tech, 3-dimension ant. pattern measurements using ground and airborne instrumentation. Supports EMI Vulnerability Reduction Testing, spectrum signatures, QFIRC, and furnishes spatial positioning of test aircraft.

VERONA

1. Introduction.

This facility supports engineering evaluation and operational testing of ECCM, Radio Frequency Interference Reduction techniques, radar, communications, millimeter wave research, optical surveillance techniques, and electromagnetic vulnerability testing. The facility also provides special instrumentation for QFIRC, special instrument techniques tests, and precise spatial positioning of test aircraft.

2. Technical Areas. Electromagnetic radiation, optical detection, radar detection, direction finding, and ECCM simulation.

3. Description.

The Verona Electromagnetic Test Facility consists of eight laboratory buildings, nine power stations, a headquarters building, two butler buildings (one specially shielded for RFI measurements and research), four arctic towers, a supply building, and a Precision Angular Tracking Station (PATS). The facility supports engineering evaluation and operational testing of ECCM, radio frequency interference reduction techniques, and optical surveillance techniques. The major items of equipment at the basic facility consists of a number of radar and communication systems plus ancillary equipments specifically instrumented for the collection of the aforementioned engineering data.

4. Major Equipment. The following radars, antennas, communication equipment, airborne equipment, ancillary equipment, and other additional capabilities are currently at the Verona Test Annex.

a. Radars:

- (1) AN/FPS-6
- (2) AN/FPS-65A (Class)
- (3) AN/MSQ-1A
- (4) Nike Ajax (XSAM-7)
- (5) AN/FPS-74 (Class)
- (6) AN/TPS-1D
- (7) SG-1B

- (8) AN/URN-3A TACAN (Navaid)
- (9) TPS-40 (AN/MPS-16)
- (10) K and Q Band
- (11) SCR-584
- (12) ASFIR (not installed; need notice)
- (13) FRS-6B
- (14) FPS-16

b. Antennas:

- (1) AT-197/GR
- (2) AS-505/GR
- (3) AS-1097/GR
- (4) AS-726/GR

c. Communications:

- (1) AN/FRT-60
- (2) AN/GRC-27
- (3) BC-639
- (4) BC-640
- (5) BC-610
- (6) AN/MRC-98
- (7) AN/FRC-68
- (8) KWT6-5B (will replace BC-610)
- (9) RT723/GR (will replace 639 and 640)
- (10) Satellite Communications
- (11) Operations Room

d. Ancillary Equipment:

- (1) AN/MSQ-16
- (2) VR-1000
- (3) AN/FST-2B (Class)
- (4) AN/MK-444 (transmitter kit AN/FPS-20) (Class) *to MK-444 / FPS-20 (transmitter kit AN/FPS-20) (class)*
- (5) AN/USQ-23V
- (6) ECCM Groups (AN/GPA-102 and OA 2325) (Class) *to ECCM Groups (AN/GPA-102 + OA-2325/FPS-6) (class).*
- (7) AN/GPA-98A (ECM Simulator)
- (8) AN/GPA-98A (XW-1) (Class)
- (9) AN/MPX-7
- (10) AN/GPA-101 (Class)
- (11) AN/UYK-1

e. Additional Capabilities:

- (1) Precision Angular Tracking System (PATS)
- (2) New York State Tropo Link (See Youngstown)
- (3) Timing for all of GAFB (Master Standard)

f. Future:

- (1) Precision Antenna Measurement System (PAMS)
- (2) Test Range for Electronically Steerable Phased Array Systems (TRESPAS)
- (3) Auto-Adaptable ECCM Radar Testbed Facility
- (4) ROMANS (See Stockbridge)
- (5) 4 EYES - Flintstone Simulator (Class)

RADC's Verona Test Site

Verona is a small, desolate, out-of-the-way place. But it does have the distinction of housing RADC's largest and most important test site. Nothing about the test site is small or desolate.

The test facility is operated by RADC's Communication Division, Electromagnetic Vulnerability Branch, Measurement Section.

Harold Vogel, only original Verona staff member still at the site, said the Air Force first conceived the facility in 1948. Six sites were chosen and each were screened with radar to study the suitability of the area. Verona was judged best and construction was started in 1951.

Mr. Vogel mentioned that Col. Richard Cosel, Chief of Communications, RADC, and John Zeock, base photographer, were also in the original Verona party.

The site, located 15 miles SW of Griffiss, is a mile-long stretch of buildings, towers and radomes. Eight permanent laboratory buildings, with associated power plants, house all electronics equipment.

Bob McGregor, site commander, said Verona has a total value of \$30 million. McGregor added that the site maintains a crew of 100. This number consists of engineers, electronic technicians, civil engineers and administrators. A fire department and police patrol is also on full time duty.

Verona, besides its support of RADC missions, has added greatly to the research capabilities of all branches of the Armed Forces. Western Ally powers such as Canada, Japan and Germany have also been aided by the sites facilities.

Private industry has also used Verona to its fullest advantage. In early 1967, Raytheon Co., conducted experiments on predetection signal processing, utilizing the Verona site. The tests not only benefited Raytheon but the data, when passed on to RADC, proved invaluable to the military.

According to Mr. McGregor, aircraft outfitted with the latest types of airborne electronic countermeasures (ECM) and jamming equipment are flown in missions simulating enemy action.

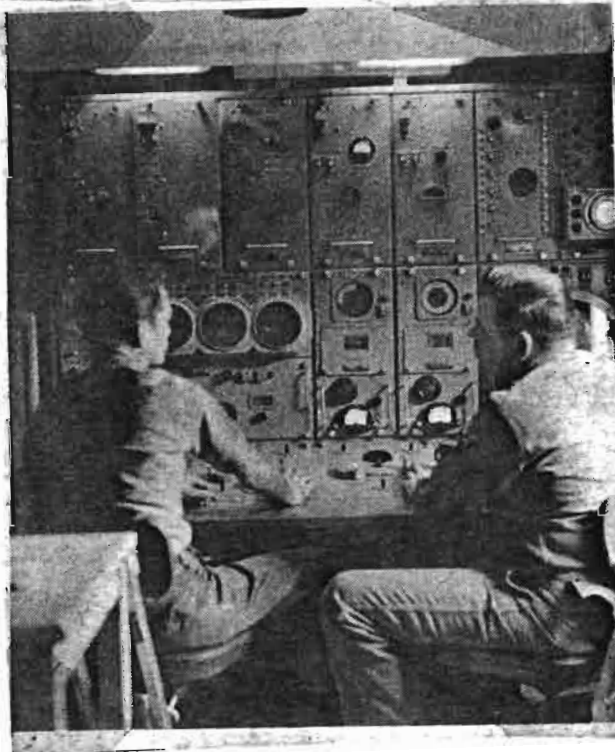
The RADC personnel at Verona can then evaluate the effectiveness of the ecm. Variations can then be made to keep the systems up to date.

Latest addition to the vast electronics network of Verona is PATS, the Precision Angular Tracking Station. PATS was designed and developed by RADC to provide the Air Force with a ground-based precision tracking platform.

Radar testing, tracking and electronic improvements are all a part of continuing air supremacy. Verona Test Site of RADC is doing its part.



TESTING AIRBORNE EQUIPMENT -- is a major task of Verona's personnel. John Koscielniak and Tom Yancey (seated, left to right) are measuring antenna patterns to fix locations of radar sites. Checking results from previous tests are (left to right) Betty McConnell, Harold Russell and Tom Baustart.



OVER
→

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA										DATE (YYMMDD)	
		WORKPLACE IDENTIFIER					BASE					8 6 1 1 1 8	
		ORGANIZATION			WORKPLACE			BLDG NO / LOCATION			ROOM / AREA		
		VERONA (ORAX)			LEFTIESHACK BEHIND RAPIDS			BEHIND QUARTER STACK					
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8, 9, none)	POTENTIAL HAZARD (Y or N)						
							Inh	Abn	Ing	Con			
KOPPEL COMPANY ZINC POLYMER	8010-00-899-8825	77-P-1757	Y	5-13 ^{oz} CAN / 412	IN PROCESS	9							
ALIPHATIC HYDROCARBONS	1001501AH	N/A											
BUTYL ALCOHOL	EK8750000	N/L											
X9LCL	ZE2100000	N/L											
ZINC CHROMATE PIGMENT	ZH1505000	N/L											
DENATURED ALCOHOL	6810-00-205-6786	-	Y	197/6 mo	IN PROCESS								
ETHYL ALCOHOL	KQ6300000												
METHYL ALCOHOL	PC1400000												
DUBOIS CHEMICAL ELECTRICAL COATING	6850-00-003-1194	MTL-C-83360C	Y	16 ^{oz} (2) / 6 mo	IN PROCESS	NONE							
FLUOROCARBON PROPELLANT	10000128FC	45%											
AROMATIC SOLVENT	1000007AH	20%											

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA										DATE (YYMMDD)			
		WORKPLACE IDENTIFIER										BASE			
		ORGANIZATION					WORKPLACE					BLDG NO / LOCATION		ROOM / AREA	
		VERONA (RADC)					OPTICAL LAB					-		-	
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)								
							Inh	Abs	Ing	Con					
UNIDENTIFIED ALCOHOL	6810-00-205-6786	-	Y	6 gal/yr	IN PROCESS										
ETHYL ALCOHOL	K96300000	NIL													
METHYL ALCOHOL	PC1400000	N/L													
UNIDENTIFIED PROCESSING	6810-00-597-3608	0-14-232	Y	16 GAL / 6 mo	IN PROCESS										
METHANOL	PC1400000	100%													
UNIDENTIFIED METHANOL				54 gal / yr											
BARRETT INDUSTRIAL	7930-00-045-6423		ORDERSH	16 GAL /											
COUMAZIN 504															
(1) BENZOPEPANO															
METHANOL															
N,N-DIMETHYL FORMAMIDE				16 GAL /											
METHANOL w/ COUMAZIN DYE IN IT															
OILS: LUB, MOTOR															

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA						DATE (YYMMDD)			
		WORKPLACE IDENTIFIER						BASE			
		ORGANIZATION		WORKPLACE		BLDG NO / LOCATION		ROOM / AREA			
		VERONA (RADG)		OPTICAL LAB				GRIFFISS AFB			
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8, 9, none)	POTENTIAL HAZARD (Y or N)				
							Inh	Abs	Ing	Con	
GLASS OUTLET DYE OCTAGON PROCESS	6850-00-664-9067	MIL-L-83795	Y	1 PT/MO	IN PROCESS	8					
a) ISOBUTYL ACETATE	AI4025000	40%									
b) METHYLENE CHLORIDE	ZE2100000	20%									
c) METHYL ISOBUTYL KETONE		10%									
d) ISOPROPYL ALCOHOL		20%									
DRAB LAQUEE PAINT SEYMOUR OF SYCAMORE	8010-00-584-3149	CJA A-A-65A	Y	1 PT/6MO	IN PROCESS	8					
a) TOLUENE	X85250000	19.6%									
b) XYLENE	ZE2100000	2.84%									
c) METHYLENE CHLORIDE	PL5775000	24.6%									
d) PROPANE		18.0									
ALLOY LUSTRESS ENAMEL SULLARDS BLENDE PAINT CO	8010-00-616-9143	TT-E-527	Y	13oz can/mo	IN PROCESS	NONE					
a) MINERAL SPIRITS	SE7555000	11%									
b) METHYLENE CHLORIDE	PL5775000	39%									
c) VINT P NAPTHA	SE7555000	2%									

(Use this space for mechanical imprint)

HAZARDOUS MATERIALS DATA

DATE (YYMMDD)

8/6/11/18

WORKPLACE IDENTIFIER

BASE

6R2JFF755 AFB

ORGANIZATION

VERONA (KADC)

WORKPLACE

BLDG NO / LOCATION

1287

ROOM / AREA

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
BYMA CO ADAMS ZUC	8040-20-273-8717	MIL-A-1154	Y			9				
TOLUENE	X85250000									
ACETONE	AL 315 0000									
ALIPHATIC PETROLEUM DISTILLATE	1001292 PD									
ZINC OXIDE	ZH4810000									
MAGNESIUM OXIDE	OM 385 0000									
ADAMS ZUC ADAMS ZUC	8040-00-225-4548		Y	10.3 g/6 mo	IN PROCESS	8				
ACETOXYSTLANE		10%								
ADAMS ZUC ADAMS ZUC	-		Y			9				
ADAMS ZUC ADAMS ZUC	8040-00-262-9011	-	Y			8				
ACETONE / TOLUENE										
CYCLOHEXANONE										
METHYL ETHYL KETONE										
PROPYLENE OXIDE										

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA										DATE (YYMMDD)			
		WORKPLACE IDENTIFIER										BASE			
		ORGANIZATION					WORKPLACE					BLDG NO / LOCATION		ROOM / AREA	
		VERONA (RADX)										1287		N/A	
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9, none)	POTENTIAL HAZARD (Y or N)								
							Inh	Abc	Ing	Con					
GE SILICONE PRODUCTS DIVISION CLEANING LUB COMPOUND	8040-00-843-0802	-	Y	2-2.80g tubes/ 1yr	IN PROCESS	-									
FEOL REMOVER	3439-00-419-5004	-	Y	160g CAN/YR	IN PROCESS	8									
GE SILICONE PRODUCTS DIVISION ELECTRICAL CONTACTING	5970-00-962-3335	-	Y	15g CAN/YR	IN PROCESS	8									
METHYL ETHYL KETONE	EL6475000	N/A													
TOLUENE	X95250000	N/A													
DEHYDRATED ALCOHOL	6810-00-205-6786	-	Y	1g/6 mo	IN PROCESS										
ETHYL ALCOHOL	KQ6300000														
METHYL ALCOHOL	PC1400000														
DEKOR CORPORATION MODIFIED COMPOUND	8030-00-229-8735	-	Y	1lb/YR	IN PROCESS										
EPOXY RESIN HARDENER	1000131ER														
DUPONT CLEANING COMPOUND SOLVENT	6850-00-935-1082	-	Y	6g/2 MONTH	IN PROCESS										
TRICHLOROFLUOROETHANE	KJ4000000														

(Use this space for mechanical imprint)

HAZARDOUS MATERIALS DATA

DATE (YYMMDD)

8, 6, 1, 1, 8

WORKPLACE IDENTIFIER

BASE

6RIFFISS AFB

ORGANIZATION

WORKPLACE

BLDG NO / LOCATION

ROOM / AREA

VERONA (KADC)

-

1253

N/A

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8, 9, none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abn	Ing	Con
HOPPERS COMPANY ZINC PRIMER	8010-00-899-8825	TT-P-1757	Y	10-2508 CAN/HR	IN PROCESS	9				
ALIPHATIC HYDROCARBONS	1001501A H	N/A								
BUTYL ALCOHOL	EK 8750000	N/A								
XYLOL	ZE 2100006	N/L								
ZINC CHROMATE PRIMER	ZH 1505000	N/L								
DECAPURED ALCOHOL	6810-00-205-6786	-	Y	180/6 mo	IN PROCESS					
ETHYL ALCOHOL	KQ 6300006	N/L								
METHYL ALCOHOL	PC 1400000	N/L								
GEOTECHNISTE ELECTRICAL COATING	5970-00-962-3335	-	Y	2-1503 CAN/HR	IN PROCESS	8				
METHYL ETHYL KETONE	EL 6475000	N/A								
TOLUENE	XJ 5250000	N/A								
TRADWELT COMPANY PAINT	8010-00-616-4010	TT-P-81E	Y	2-103 CAN/6 mo	IN PROCESS					
SOLVENTS	100009989	17%								

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA										DATE (YYMMDD)							
		WORKPLACE IDENTIFIER										BASE							
		ORGANIZATION					WORKPLACE					BLDG NO / LOCATION		ROOM / AREA					
		VERONA (RADC)					—					1253		—		8/6/11/18			
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9, none)	POTENTIAL HAZARD (Y or N)												
							Inh	Abn	Ing	Con									
ROYAL LUBRICANTS INC CELOXIN AGENT	9150-00-141-6770	MIL-G-2503D	Y																
METHYL PHENYL SILICONE OIL	1000843MS																		
MONOCHLORO TRIFLUOROMETHYLENE POLYMER	10000835MP																		
DIATOMACEOUS CLAY	10000619DC																		
SODIUM PETROLEUM SULFONATE	10000676SP																		
METHYL DIOCTYL DIPHENYLAMINE	10000836MD																		
LATEX PAINTS				16 GAL / YR	IN PROCESS														
ADJUSTIVE PART UNSEALANT NON CHEMICAL	8040-00-225-4548		Y	10.308/6 MO	IN PROCESS	8													
ACETOXYSTILANE		10%																	
PC BOARD DEVELOPING SOLUTIONS																			
PARKS PAINT THINNER																			
ETCH RESIST SENSITIZER																			
GREASE / LUBE OILS																			
ASBESTOS FIBRE TAR / SEALANT																			

(Use this space for mechanical imprint)

HAZARDOUS MATERIALS DATA

DATE (YYMMDD)

8/6/11/18

WORKPLACE IDENTIFIER

BASE

ORGANIZATION

VERONA (RADC)

WORKPLACE

-

BLDG NO/LOCATION

1279

ROOM/AREA

N/A

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
DENATURED ALCOHOL	6810-00-205-6786	-	Y	5 gal/yr	IN PROCESS					
ETHYL ALCOHOL	K96300006	N/L								
METHYL ALCOHOL	PC1400000	N/L								
CHEMICALS	6850-00-105-3084	MIL-C-81302	Y	2-13 gal CAN/6 mo	IN PROCESS	NONE				
TRICHLOROFLUOROETHANE	KJ4000006	75%								
CARBON DIOXIDE (AS PROPELLANT)	FF6400000	25%								
CHEMICALS	9150-00-823-7860	-	Y	1 PT/6 mo	IN PROCESS					
ISOBUTANE/PROPANE MIXTURE	10002571P									
TRICHLOROFLUOROETHANE	KJ4000000									
1,1,1-TRICHLOROETHANE	KJ2975000									
SILICONE	VW1620000									
SCOTCH TAPE	5970-00-962-3335	N/A	Y	2-15 gal/6 mo	IN PROCESS					
METHYL ETHYL KETONE	EL6475000									
TOLUENE	XS5250000									

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA										DATE (YYMMDD)			
		WORKPLACE IDENTIFIER										BASE			
		ORGANIZATION					WORKPLACE					BLDG NO/LOCATION		ROOM/AREA	
		VERONA (RAOC)										1271		N/A	
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8, 9, none)	POTENTIAL HAZARD (Y or N)								
							Inh	Abs	Ing	Con					
SCOTCHLODGE ELECTRICAL COATING	5970-00-962-3335	-	Y	1523 CAN/YR	IN PROCESS	8									
METHYL ETHYL KETONE	EL 6475000	N/A	1												
TOLUENE	X55250000	N/A													
HOOPER'S COMPANY ENCL PRIMER	8010-00-899-8825	TT-P-1757	Y	5-154 CAN/YR	IN PROCESS	9									
ALIPHATIC HYDROCARBONS	1001501AH	N/A													
BUTYL ALCOHOL	EK8750000	N/A													
XYLOL	ZE2100000	N/A													
ZINC CHROMATE PIGMENT	ZH1505000	N/L													
ADHESIVE CYANOACRYLATE	8040-00-142-9193	-	N	248/YR	IN PROCESS	9									
DENATURED ALCOHOL	6910-00-705-6796	-	Y	140/6 mo	IN PROCESS										
ETHYL ALCOHOL	KQ6300000	N/L	N												
METHYL ALCOHOL	PC1400000	N/L													

(Use this space for mechanical imprint)		HAZARDOUS MATERIALS DATA						DATE (YYMMDD) 8/6/11/11E			
WORKPLACE IDENTIFIER		BASE GRIFFISS AFB									
ORGANIZATION VERONA (RADC)		WORKPLACE —		BLDG NO / LOCATION 1227		ROOM / AREA —					
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)				
							Inh	Abn	Ing	Con	
DEMATURED ALCOHOL	6810-00-205-8786	—	Y	1 gal / 6 mo	IN PROCESS						
a) ETHYL ALCOHOL	K46300000	MIL									
b) METHYL ALCOHOL	PL1400000	MIL									
ISOPROPYL ALCOHOL	6505-00-299-8095	100%	Y	5 GAL / yr	IN PROCESS						
LUBRICATING COMPOUND SLIDE BULK CHEMICALS	9150-00-823-7860	—	Y		IN PROCESS						
a) TRICHLOROETHYLENE	KJ4800000	37%									
b) METHYL CHLOROFORM	KJ2975000	35%									
SEYMOUR OF SYCAMORE PRINTER	8010-00-616-9181	77-P-605	Y	16 gal / 3 mo	IN PROCESS	8					
a) VMP NAPHTHA	7555000SE	4.6%									
b) TOLUOL	5250000XF	31.3%									
c) METHYL ISOBUTYL KETONE	9275000SA	2.2%									
d) PROPANE	2275000TX	14.6%									
e) ISOBUTANE	2430000OT	14.6%									

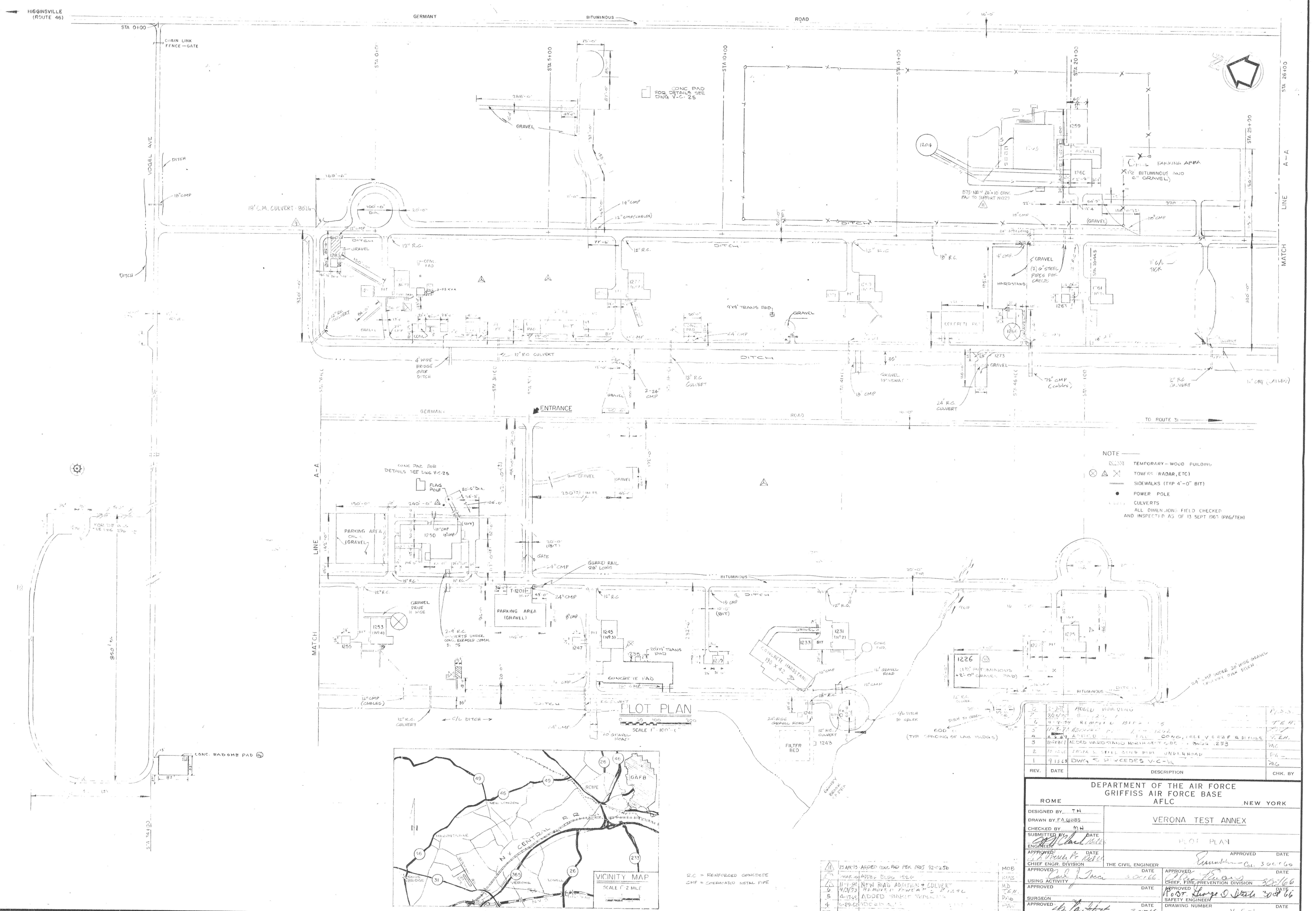
MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE ? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
ADHESIVE RTV SEALANT DOUGL CHEMICAL	8040-00-225-4548		Y	4-10, 200/4R	IN PROCESS	8				
ACETOXYSIANE		10%								
PARKS' EUM TURPENTINE (1 GAL)										
9-1 GAL CANS OF LATEX PTS.										
LUBRICANTS										
PAINTS										
ETCHANTS										

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE ? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9, none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
ARROW PAPER & VALENZUELA CO PAPER	5610-00-141-7838	MIL-W-5044C	Y	4-1 GAL/YR	IN PROCESS	8				
MINERAL SPIRITS	BE7555000	0.4%								
BUTYL ACETATE	E00700000	23%								
TOLUOL	XV1400000	5.6%								
VMPD NAPTHA	BE7555000	40.9%								
BUTYRALDEHYDE OXIME	ES350000	0.5%								
BULK CHEMICAL CLEANERS COMPOUND	6850-00-419-5004	N/A	Y	16 gal/YR	IN PROCESS	9				
TRICHLOROTRIFLUOROETHANE	KJ4000000									
METHYLENE CHLORIDE	PA8050000									
DUBOIS CHEMICAL ELECTRICAL COATING	6850-00-003-1194	MIL-C-83300	Y	16 gal ⁽⁴⁾ /6 mo	IN PROCESS					
FLUOROCARBON PROPELLANT	1000128FC	45%								
AROMATIC SOLVENT	1000007AH	20%								
ARMSTRONG PRODUCTS COMPANY DURET ADHESIVE	8040-00-154-4846	MIL-A-136	Y	20 gal/4 mo	IN PROCESS					
EPOXY RESIN	1000031ER	40%								
VINYL RESIN	10000171VR	17%								
FILLER	1000333FU	23%								

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE 1 (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9, none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
KOPPERS COMPANY ZINC PIGMENT	8010-00-899-8825	77-P-1757	Y	7-16oz CAN/ 6MO	IN PROCESS	9				
ALIPHATIC HYDROCARBONS	1001501AH	N/L								
BUTYL ALCOHOL	EK 8750000	N/L								
XYLOL	ZE 2100000	N/L								
ZINC CHROMATE PIGMENT	ZH1505000	N/L								
ADHESIVE CYANOACRYLATE	8040-00-142-9193	M7L-A-46050C	N	2oz/YR	IN PROCESS	9				
CHEMSKOPF CORPORATION INSECT REPELLANT	6840-00-082-2541		Y	6oz/6 MONTH	IN PROCESS					
DIETHYL TOLUAMIDE	XB 3675000									
DICHLORO DIFLUOROMETHANE	PA 8200000									
PROPANE FUEL										
OILS: MOTOR LUBE										
LATEX PAINTS										
KEROSENE										

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE ? (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9, none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
AEROSOL CURE OIL BULK CHEMICALS	9150-00-458-0075	VV-2-8100	Y	16oz / 6 mo	IN PROCESS	9				
a) TRANSFORMER OIL	100174370	92%								
DELUX ENAMEL DUPONT			Y	19 + 16 oz CAN / YR	IN PROCESS	9				
a) AROMATIC HYDROCARBONS										
b) TOLUENE										
c) XYLENE										
LUBRICANTS COMPANY SLIDE BULK CHEMICALS	9150-00-923-7860		Y							
a) TRICHLOROETHYLENE		37%		16oz can / 6 mo	IN PROCESS	NONE				
b) METHYL CHLOROFORM		35%								
KEROSENE		100%	-							
KODAK DEVELOPER DK-50										
KODAK DEVELOPER D-19										
TURNER PROPANE FUEL			-	5-14.103CAN						
NITRIC ACID ORTHO										
INSECT FOGGER JOSEPH DRON CRUCIBLE COMPANY										
GRAPHITE POWDER										
BULF-LITE CHARCOAL STARTER										
OJCS										

MATERIAL NOMENCLATURE (Manufacturer & Major Ingredients)	NATIONAL STOCK NUMBER (or NIOSH Number)	SPECIFICATION (MIL or FED)	MSDS ON FILE 1 (Y or N)	QUANTITY USED (per day, wk, mo, yr)	DISPOSAL METHOD (recycle, in process, etc.)	IEX CODE (8,9,none)	POTENTIAL HAZARD (Y or N)			
							Inh	Abs	Ing	Con
ILLINOIS BRONZE PAINT CO. PAINT	8010-00-721-9750	TT-L-506	Y	2-13 ⁰³ CAN/ 16.00	IN PROCESS	8				
CELLOSOLVE ACETATE	KK8825000	2.4%								
TOLUENE	X85250000	19.3%								
METHYLENE CHLORIDE	PA9050000	29.3%								
PROPELLANT	1000095PT	32.0%								
PACIFIC AEROSOL PAINT	8010-00-582-5382	TT-L-50	Y	2-13 ⁰³ CAN/ 16.00	IN PROCESS	None				
TOLUENE	X85250000	19%								
ACETONE	AL3150000	45%								
BUTYL ACETATE	AF7380000	6%								
BUTYL CELLOSOLVE	KJ8575000	2%								
ISOBUTANE	T24300000	14%								
ELECTROLUM INC. LUBRICATED FILM	9150-00-985-7255	MIL-L-88310	Y		IN PROCESS	9				
TOLUENE	X85250000	30%								
METHYL ISOBUTYL KETONE	SA9275000	33.8%								
ISOPROPYL ALCOHOL	NT8050000	6.7%								
LEAD PHOSPHATE	10000926LM	6.7%								
PHENOLIC RESIN	10000250RE	3.5%								



REV.	DATE	DESCRIPTION	CHK. BY
1	9-13-67	DWG. EXCEEDS V-C-1	PG
2	10-12-67	ADDED 24" CIP UNDER 20" WIDE DITCH	PG
3	11-3-67	REMOVED 12" R.C. BIT	PG
4	11-3-67	ADDED 12" R.C. BIT	PG
5	11-3-67	ADDED 12" R.C. BIT	PG
6	11-3-67	ADDED 12" R.C. BIT	PG
7	11-3-67	ADDED 12" R.C. BIT	PG
8	11-3-67	ADDED 12" R.C. BIT	PG
9	11-3-67	ADDED 12" R.C. BIT	PG
10	11-3-67	ADDED 12" R.C. BIT	PG

**DEPARTMENT OF THE AIR FORCE
GRIFFISS AIR FORCE BASE
AFLC**

NEW YORK

ROME

DESIGNED BY: TH
DRAWN BY: P.A. GIBBS
CHECKED BY: TH

VERONA TEST ANNEX

PLOT PLAN

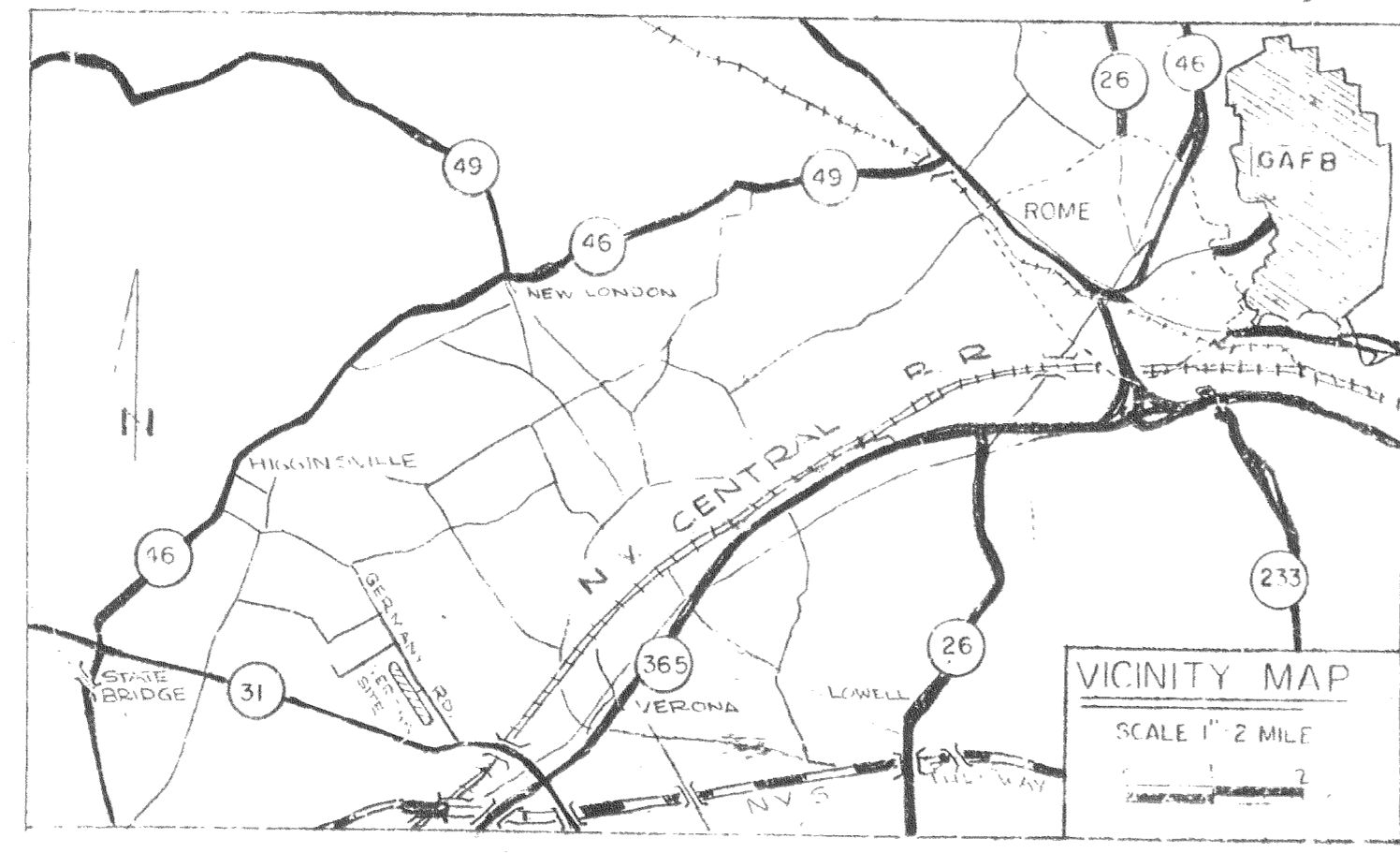
APPROVED: [Signature] DATE: 11-3-67
CHIEF ENGR. DIVISION THE CIVIL ENGINEER

APPROVED: [Signature] DATE: 11-3-67
CHIEF FIRE PREVENTION DIVISION

APPROVED: [Signature] DATE: 11-3-67
SAFETY ENGINEER

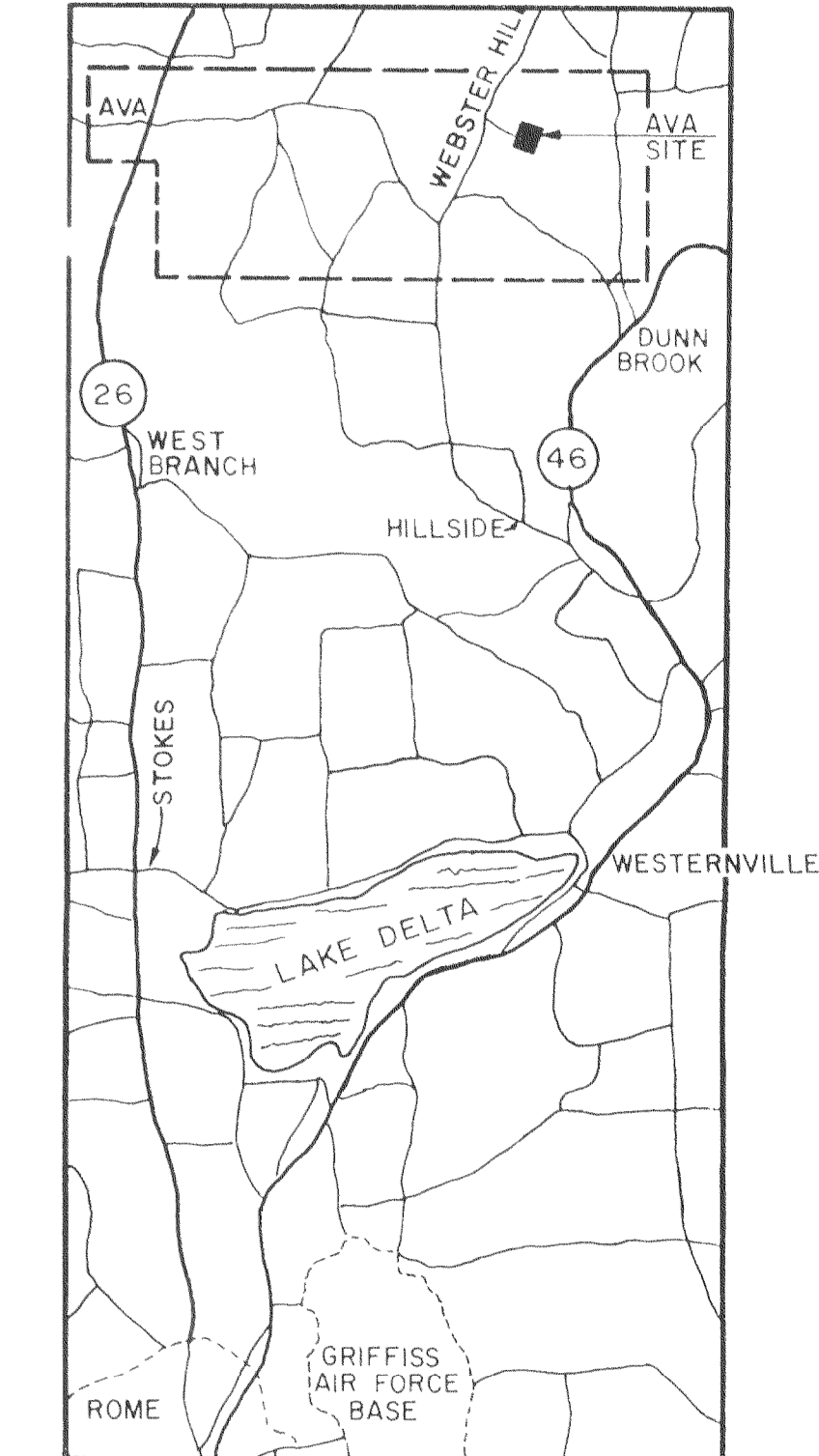
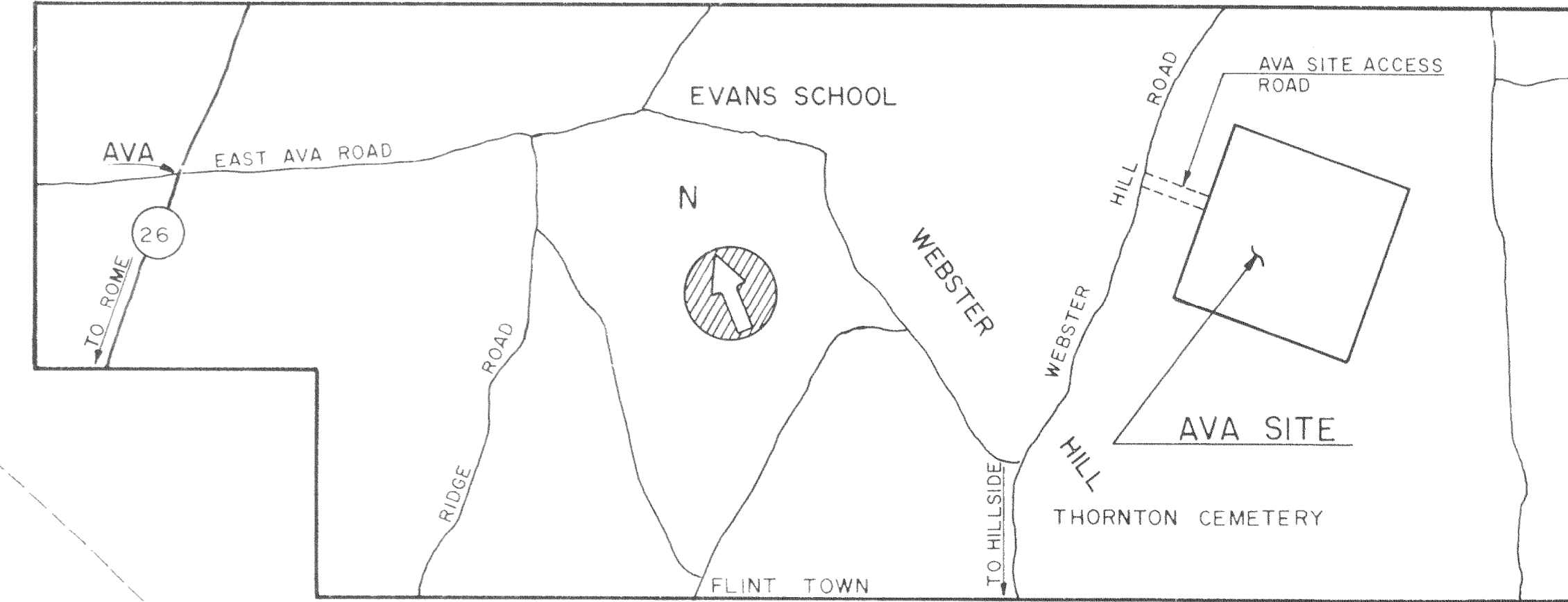
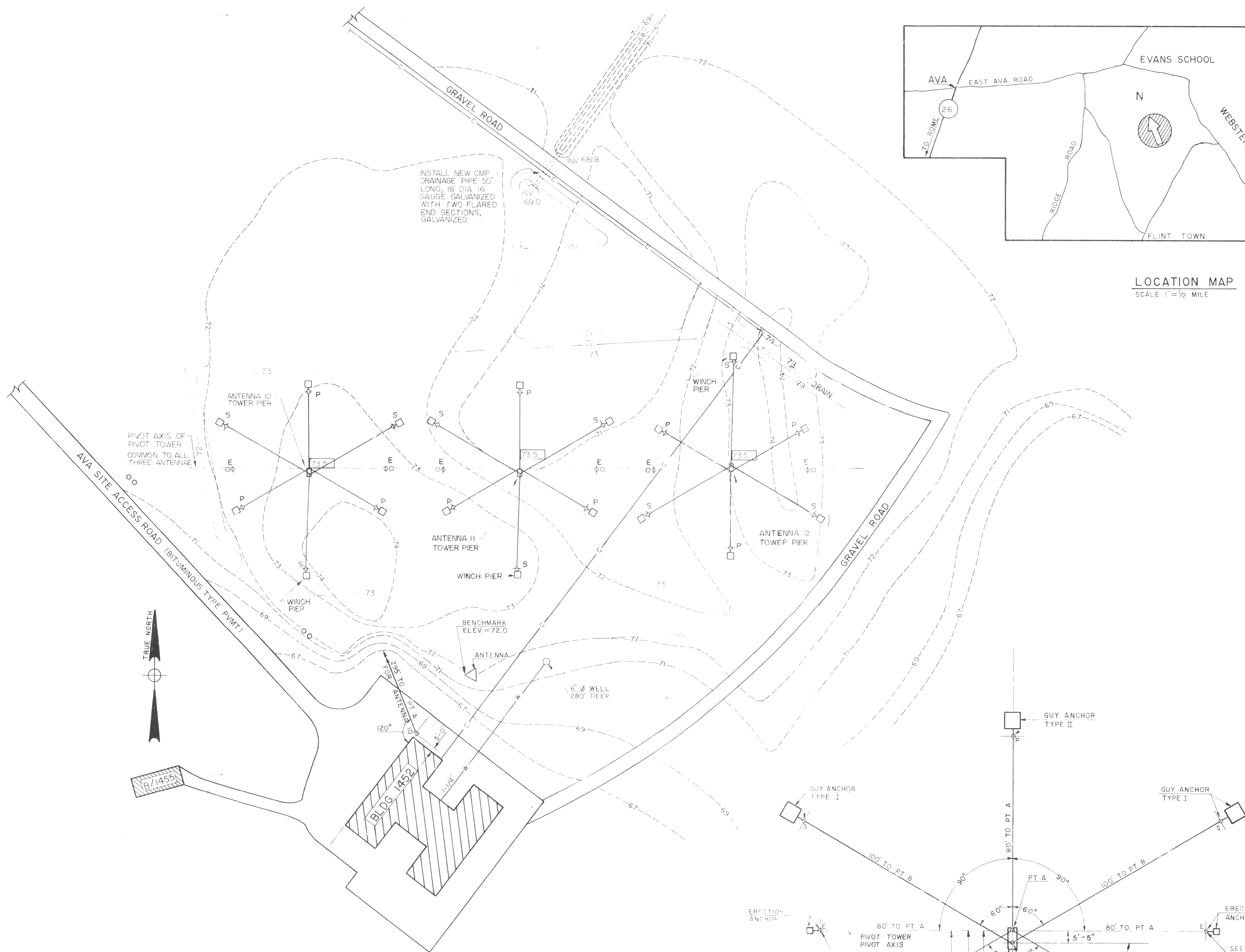
APPROVED: [Signature] DATE: 11-3-67
CHIEF, PROGRAM & MASTER PLANNING DIV.

DATE: 11-3-67
DRAWING NUMBER: V-C-1
SHEET OF: 1

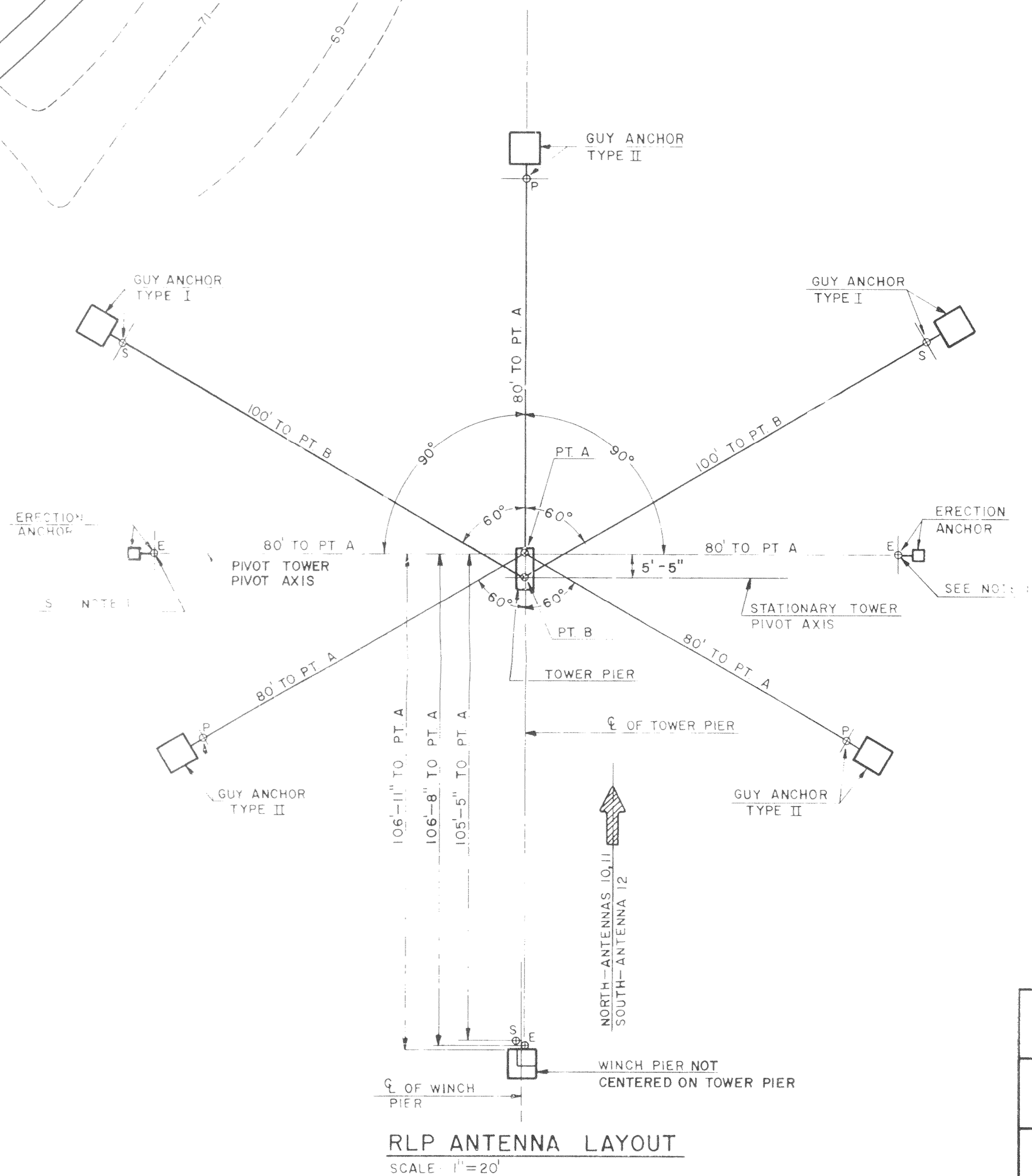


23 AR 15 - ADDED CONC PAD PER 1965 92-256
 MAR 1965 ADDED BLDG 1226
 11-7-67 NEW ROAD ADDED + CULVERT
 4-23-68 REMOVED POWER POLE 1249
 5-4-68 ADDED SIDEWALK
 10-29-68 ADDED
 REV DATE DESCRIPTION

R.C. = REINFORCED CONCRETE
 C.I.P. = CAST-IN-PLACE



SITE PLAN—RLP ANTENNA
SCALE: 1" = 50'



RLP ANTENNA LAYOUT
SCALE: 1" = 20'

GENERAL NOTES:

- SIDE ERECTION ANCHOR EYES SHALL BE WITHIN 1", HORIZONTALLY AND VERTICALLY, OF THE PIVOT AXIS OF THE PIVOT TOWER.
- ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- REINFORCING STEEL SHALL BE DEFORMED REINFORCEMENT BARS CONFORMING TO THE REQUIREMENTS OF ASTM A 615-79 GRADE 40 BILLET STEEL.
- ALLOWABLE TOLERANCES:
WINCH PIER ANCHOR BOLTS $\pm 1/8"$
ANGLES ± 1 DEGREE
GUY ANCHOR & WINCH PIER RADIAL DISTANCES $\pm 6"$
GUY ANCHOR ROD VERTICAL ANGLE: ± 5 DEGREES
TOWER PIER ANCHOR BOLTS $\pm 1/4"$ (EXCEPT AS NOTED)
SIDE ERECTION ANCHOR EYES: $\pm 1/4"$ VERTICAL & HORIZONTAL
TOWER PIER & WINCH PIER TO BE LEVEL: $\pm 1/4"$
- ALL ELEVATIONS SHOWN ARE WITH RESPECT TO A LOCAL DATUM TAKEN AT 1500 FT. ABOVE THE U.S.S. DATUM.
- SEE SHEET 2 FOR PIER AND FOUNDATION DETAILS.

LEGEND:

- E ERECTION ANCHOR
- S STATIONARY TOWER ANCHOR
- P PIVOT TOWER ANCHOR
- O — ANCHOR EYE (POINT OF MEASUREMENT)
- PT A INTERSECTION OF TOWER PIER & PIVOT TOWER PIVOT AXIS
- PT B INTERSECTION OF TOWER PIER & STATIONARY TOWER PIVOT AXIS
- - 67 - - EXISTING CONTOUR LINE

LEGEND CONT.

- - 67 - - FINISHED CONTOUR LINE
- W - UNDERGROUND WATER LINE
- C - UNDERGROUND COMMUNICATION LINE
- E.F. EACH FACE
- E.W. EACH WAY
- G.F.M. GOVERNMENT FURNISHED MATERIAL
- C.C. CENTER TO CENTER
- [73.5] FINISHED GRADE ELEVATION

COORDINATION				
OFFICE	DATE	REV.	DATE	DESCRIPTION
416 BMW/SE				STRATEGIC AIR COMMAND CIVIL ENGINEERING
416 CSG/SP				SCHEME SUPPORT—AVA
416 CSG/DEF				SITE PLAN
USAF HOSP/SGPB	416 CSG/DEEC	416 CSG/DEED	416 CSG/DEE	416 CSG/DE
DESIGNED: JMF/10/85	CHECKED: J.F. JONES	SCALE: AS SHOWN	DRAWING NUMBER: TD-1751	
DRAWN: M. JONES	DATE: 20 SEP 85	PROJECT NUMBER: JREZ 84-0160	SHEET 1 OF 3	