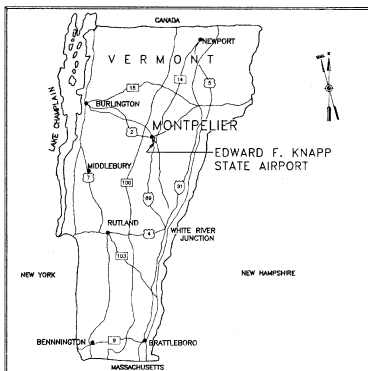




LOCATION MAP
NOT TO SCALE

STATE OF VERMONT AGENCY OF TRANSPORTATION MASTER PLAN EDWARD F. KNAPP STATE AIRPORT

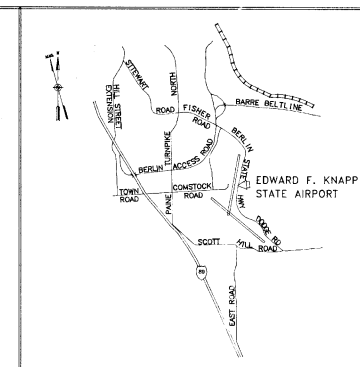
FAA PROJECT NO. 3-50-0001-0186
VAOT PROJECT NO. AIR 03-2047

INDEX TO DRAWINGS

1. EXISTING AIRPORT LAYOUT PLAN
2. AIRPORT LAYOUT PLAN
3. DATA SHEET
4. TERMINAL AREA PLAN - SOUTH
5. TERMINAL AREA PLAN - NORTH
6. AIRPORT IMAGINARY SURFACES PLAN
7. PLAN AND PROFILE RUNWAY 17-35
8. PLAN AND PROFILE RUNWAY 5-23
9. LAND USE PLAN

MARCH, 1991

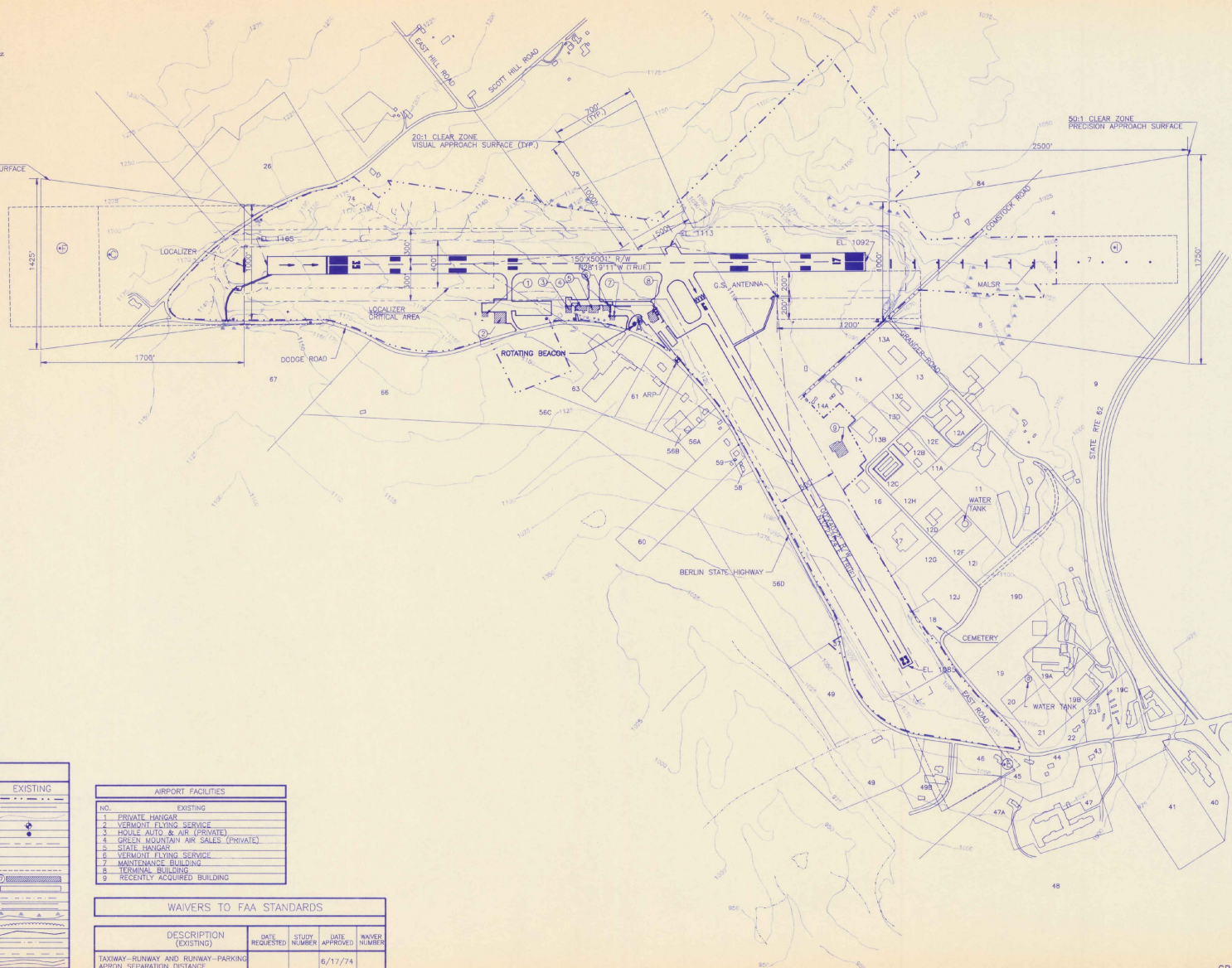
HOYLE, TANNER & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS/SURVEYORS
BEDFORD, NEW HAMPSHIRE



VICINITY MAP
NOT TO SCALE



34:1 CLEAR ZONE
NON-PRECISION APPROACH SURFACE



LEGEND

ITEM	EXISTING
AIRPORT PROPERTY LINE	---
MISCELLANEOUS PROPERTY LINE	---
CONTOURS (USDS-MSL) DATUM	---
AIRPORT REFERENCE POINT (ARP)	●
AIRPORT ROTATING BEACON	●
BUILDING RESTRICTION LINE (B.R.L.)	---
AVIGATION EASEMENT	---
FEE ACQUISITION	---
MISCELLANEOUS EASEMENTS	---
AIRPORT BUILDINGS/FACILITIES	---
MISC. BUILDINGS/FACILITIES	---
G.S./LOC. CRITICAL AREA	---
RUNWAYS/TAXIWAYS	---
WATERS/WETLAND	---
TREELINE/BRUSH	---
SURFACE WATER	---
RUNWAY VISIBILITY ZONE	---
SAFETY AREA	---
ROADS	---
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	---

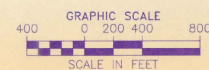
NOTE: SEE DATA SHEET (SHEET 3 OF 9)
FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

AIRPORT FACILITIES

NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOUSE AUTO. & AIR (PRIVATE)
4	GREEN MOUNTAIN AIR SALES (PRIVATE)
6	VERMONT FLYING SERVICE
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74	
USE OF STATE PAVING SPECIFICATION			4/30/75	
CONSTRUCTION OF APRON SERVED BY SUB TAXIWAY			4/29/75	



ENGINEER/ARCHITECT

PROJECT NO.
60802

FILE NAME
60802.P

DATE
10/1/90

Hoyle, Tanner & Associates, Inc.
100 Commerce Park North, Bedford, New Hampshire 03102
H.A. Hoyle, Inc.
100 Commerce Park North, Bedford, New Hampshire 03102

DATE BY
10/1/90

DATE BY
10/1/90

DATE BY
10/1/90

DATE BY
10/1/90

DATE BY
10/1/90

DATE BY
10/1/90

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

EXISTING AIRPORT
LAYOUT PLAN

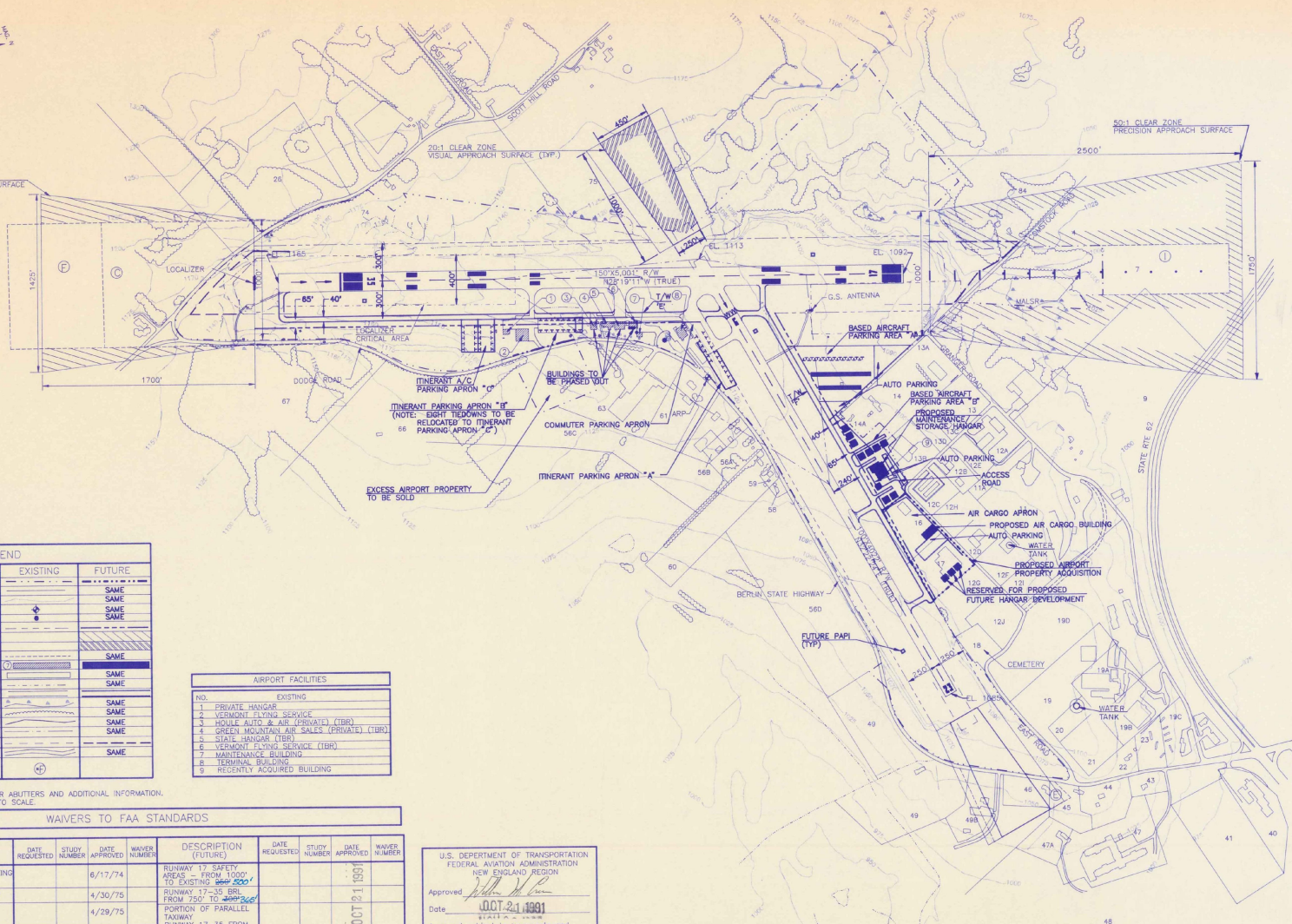
DRAWING NO.

1

SHEET 1 OF 9



34:1 CLEAR ZONE
NON-PRECISION APPROACH SURFACE



LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE	---	---
MISCELLANEOUS PROPERTY LINE	---	SAME
CONTOURS (UGS-MSL) DATUM	---	SAME
AIRPORT REFERENCE POINT (ARP)	---	SAME
AIRPORT ROTATING BEACON	---	SAME
BUILDING RESTRICTION LINE (B.R.L.)	---	---
AVIGATION EASEMENT	---	---
FEI ACQUISITION	---	---
MISCELLANEOUS EASEMENTS	---	SAME
AIRPORT BUILDINGS/FACILITIES	---	SAME
MISC. BUILDINGS/FACILITIES	---	SAME
G.S./LOC. CRITICAL AREA	---	SAME
RUNWAYS/TAXIWAYS	---	SAME
MARSH/WETLAND	---	SAME
TREELINE/BRUSH	---	SAME
SURFACE WATER	---	SAME
RUNWAY VISIBILITY ZONE	---	SAME
SAFETY AREA	---	SAME
ROADS	---	---
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	---	---

AIRPORT FACILITIES	
NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOUSE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

*NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.

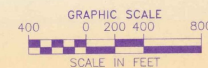
WAIVERS TO FAA STANDARDS

DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER	DESCRIPTION (FUTURE)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY-RUNWAY AND RUNWAY-PARKING APRON SEPARATION DISTANCE			6/17/74		RUNWAY 17-35 SAFETY AREAS - FROM 1000' TO EXISTING 200'			OCT 21 1991	
USE OF STATE PAVING SPECIFICATION			4/30/75		RUNWAY 17-35 FROM 750' TO 200' 300'			OCT 21 1991	
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75		PORTION OF PARALLEL TAXIWAY RUNWAY 17-35 FROM 400' TO 300'			OCT 21 1991	
					ALL AIRCRAFT PARKING AREAS ALONG RUNWAY 17-35 FROM 500' TO 200' 300'			OCT 21 1991	
					RUNWAY 35 SAFETY AREA FROM 1000' TO EXISTING 200'			OCT 21 1991	
					EXISTING BUILDINGS NORTH OF INTERIM PARKING "C" TO RUNWAY 17-35 PENETRATION TO PRIMARY SURFACE			OCT 21 1991	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION
Approved: *[Signature]*
Date: OCT 21 1991
Approved subject to comments and
recommendations in letter dated
OCT 21 1991

VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
Approved: *[Signature]*
Date: April 16, 1991

E.F. KNAPP MASTER PLAN UPDATE
ADVISORY COMMITTEE
Approved: *[Signature]*
Date: *[Signature]*



ENGINEER/ARCHITECT	
PROJECT NO. 60802	
FILE NAME: EDSALP	DATE: 03/01/91
DRAWN BY: BUD	
CHECKED BY: HW	DATE: MARCH, 1991
SCALE: 1"=400'	
DRAWING NO. 2	
SHEET 2 OF 9	

EDWARD F. KNAPP STATE AIRPORT
BERLIN, VERMONT

AIRPORT LAYOUT PLAN

Hoyle, Tanner & Associates, Inc.
100 Commerce Park North, Berlin, New Hampshire 03022

PLOT
No.

CURRENT OWNER

1	Alow, Chester & Ella
2	Woodbury, Harold & Ola
3	Sandbrien, Joseph
4	Berlin Properties, Inc.
5	Batch, Elizabeth and Clark, Anita
6	Berlin Properties, Inc.
6A	Alleca, Frank
7	State of Vermont
8	Wood, Donald
9	Cooley Asphalt Paving
10	A. G. Anderson, Inc.
11	Royce, Cecil Jr. & Vicki
11A	Zahn, Michael & Christine
12A	Langevin, Wilfred, Jr. & Jean
12B	LaPrade Realty
12C	D & D Investment Corp.
12D	Mountain Cable Co.
12E	Langevin, Wilfred, Jr. & Jean and Pollard,
	Wilson & Elizabeth
12F	Gaffetti, Eugene
12G	Gaffetti, Eugene
12H	Lague, Inc.
12I	Lague, Inc.
12J	Lague, Inc.
13	Viateur, Fecteau Construction, Inc.
13A	Heney, Lawrence & Mary
13B	Nicom Coatings Corp.
13C	Poli, Edward
13D	Viateur, Fecteau Construction, Inc.
14	Parker, Charles
14A	Comstock, Elwin & Pearl
15	Huntington Homes, Inc.
16	Stratous, Raymond
17	Rodman, Donald & Gerald and Pinta, Irving
18	Town of Berlin (Cemetery)
19	Staudt, Richard & Jane
19A	Tennis Unlimited
19B	Wovan Associates
19C	Lomb, Lawrence & Jacqueline
19D	Vermont Health Services Corp.
20	Central Vermont Hospital, Inc.
21	Lague, Henry
22	Blow, Chester & Ella
23	Brack, Bernard
40	Lague, Inc.
41	Borl, Paul, Norman & Raymond
42	Buxton, Roy & Beatrice
44	Diego, Richard & Rita
45	Roux, Francis & Jeanette
46	Parks, Steven
47	Berlin C.C., Inc.
47A	Johnson, Raymond & Donna
48	Chapple, John, III c/o Merla Management Services
49	Kelley, Kathryn
49A	Lague, Henry
49B	Christ the Redeemer Evangelical Lutheran Church, Inc.
56	Levinisky, Bruce
56A	Miller, H. Lincoln, Jr., & Margaret
56B	Prescott, Everett J., Inc.
56C	Levinisky, Bruce
56D	Levinisky, Bruce
57	State of Vermont
58	Corriveau, J. Williams & Mary
59	Junowicz, David & Linda
60	Brown, Virginia and Burrington, Stella
61	Fecteau, Viateur Construction, Inc.
62	State of Vermont
63	Design Sales Systems, Inc.
66	Perrin, Henry, II, David & Marilyn
67	Dodge, George
73	State of Vermont
74	Mier, Della
75	Perrin, Marion & Henry, II
76	Chartrand, Alderick & Friscilla
84	Perry, Joseph Sr., & Martha

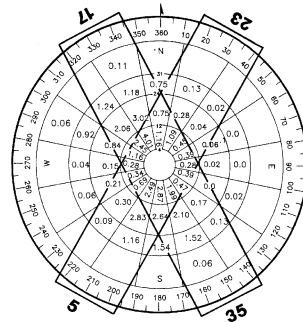
Properties South of Scott Hill Road

26	Couillard, Albert & Fish, George & Vivian
27	Dodge, George

Ownership as of 2-2-87
Ownership based on information at Berlin Town Clerk's
office, plot numbers refer to assessment map
reference numbers

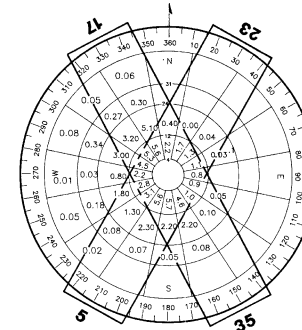
RECORD OF EASEMENT

PARCEL No.	PROPERTY OWNER	
C	DODGE	EASEMENT AREA & CLEAR AREA
C	DODGE	R.O.W. TO BEACON
D	COMSTOCK	EASEMENT & CLEAR AREA
E	WOODBURY	EASEMENT & CLEAR AREA
F	DODGE	QUADRANT
G	PRESBOTT	POLE LINE EASEMENT W.D.-05
H	STEVENS	POWERLINE EASEMENT & R.O.W.-05
I	BERLIN PROPERTIES, INC.	AVIGATION EASEMENT W.D.-03
J	BROWN & BURRINGTON	POWERLINE EASEMENT W.D.-05



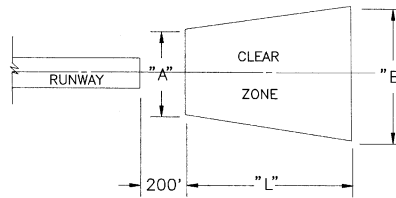
IFR WIND ROSE

IFR WEATHER OCCURS 10.8% OF THE TIME
12 MPH CROSSWIND COVERAGE RWY 5-23=85.6%
12 MPH CROSSWIND COVERAGE RWY. 17-35=92.6%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS =98.2%
=55.1% CALMS + 0-4MPH
NO. OF OBSERVATIONS 4,662 PERIOD 1950-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



ALL WEATHER WIND ROSE

12 MPH CROSSWIND COVERAGE RWY 5-23 =84.8%
12 MPH CROSSWIND COVERAGE RWY 17-35=92.2%
12 MPH CROSSWIND COVERAGE ALL RUNWAYS = 96.7%
=29.3% CALMS + 0-4 MPH
NO. OF OBSERVATIONS 51,840 PERIOD 1949-1954
SOURCE: U.S. WEATHER BUREAU, E.F. KNAPP STATE AIRPORT, BERLIN, VERMONT



CLEAR ZONE DATA

RUNWAY	CATEGORY	APPROACH SLOPE	"L"	"A"	"B"
17	PRECISION	50:1	2,500'	1,000'	1,750'
35	NON-PRECISION	34:1	1,700'	1,000'	1,425'
5	VISUAL	20:1	1,000'	500'	700'
23	VISUAL	20:1	1,000'	500'	700'
5 (FUTURE)	VISUAL	20:1	1,000'	250'	450'
23 (FUTURE)	VISUAL	20:1	1,000'	250'	450'

AIRPORT DATA

ITEM	EXISTING	FUTURE
AIRPORT ELEVATION (U.S.G.S.-M.S.L.)	1165'	SAME
OPERATIONAL ROLE	COMM. SERV. OTHER	SAME
MEAN MAX. TEMP. HOTTEST MONTH	84.8°F	SAME
AIRPORT CATEGORY	SHORT HAUL	SAME
TERMINAL BUILDINGS	VOR	LOC./VOR
COMBINED WIND COVERAGE (A/W)	96.7% (12MPH)	SAME
DIST. & DIR. TO MONTPELLIER	3 NM WEST	SAME
LAND OWNED IN FEE (ACRES)	263	• 266
AVIGATION EASEMENT (ACRES)	51.27	124.27
OWNER	STATE OF VERMONT	SAME
MAGNETIC DECLINATION	15° 59.5' W	VARIES
AIRCRAFT DESIGN GROUP	II	SAME
AIRCRAFT APPROACH SPEED CLASS	B	SAME
AIRPORT REFERENCE POINT (ARP)	44°12'12.4N 72°33'46.0W	SAME

• 5 ACRES WILL POSSIBLY BE SOLD BY AIRPORT

RUNWAY DATA

ITEM	RUNWAY 17-35	RUNWAY 5-23
EXISTING	EXISTING	EXISTING
PHYSICAL LENGTH	5,001'	4,022'
WIDTH	150'	100'
SAFETY AREA WIDTH	523' •	150' •
TAXIWAY WIDTHS	40'	46'
SURFACE COMPOSITION	ASPHALT	ASPHALT
PVT. STRENGTH (x1000#)	315W/440W	305W/440W
PAVEMENT TYPE	ASPHALT	ASPHALT
RUNWAY LIGHTING	MIRL.S	MIRL.S
RUNWAY MARKING	PRECISION	BASIC
EFFECTIVE GRADIENT (%)	1.46%	0.73%
A/W WIND COVERAGE (%) 12mph	92.2%	84.8%
APPROACH ADS	ILS LOC RW17 VOR/DME RW35 MALSR RW 17 REL RW35	NONE
VISUAL AIDS	REL RW35	PAPI RW 17 RW 35
CRITICAL AIRCRAFT APPR SPD.	CITATION III(B)	BE96(B)
CRITICAL AIRCRAFT WINGSPAN	CITATION III (U)	BE99(U)
RUNWAY BEARINGS	N28°19'11"W (TRUE)	N32°22'24"E (TRUE)
RUNWAY END COORDINATES	S 44° 12' 08.77" N E 44° 12' 42.31" N W 44° 12' 23.62" N S 44° 11' 40.15" N	W 72° 33' 56.72" W E 72° 33' 27.16" W W 72° 34' 05.64" W E 72° 33' 33.08" W

• REQUIRED

ENGINEER/ARCHITECT

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

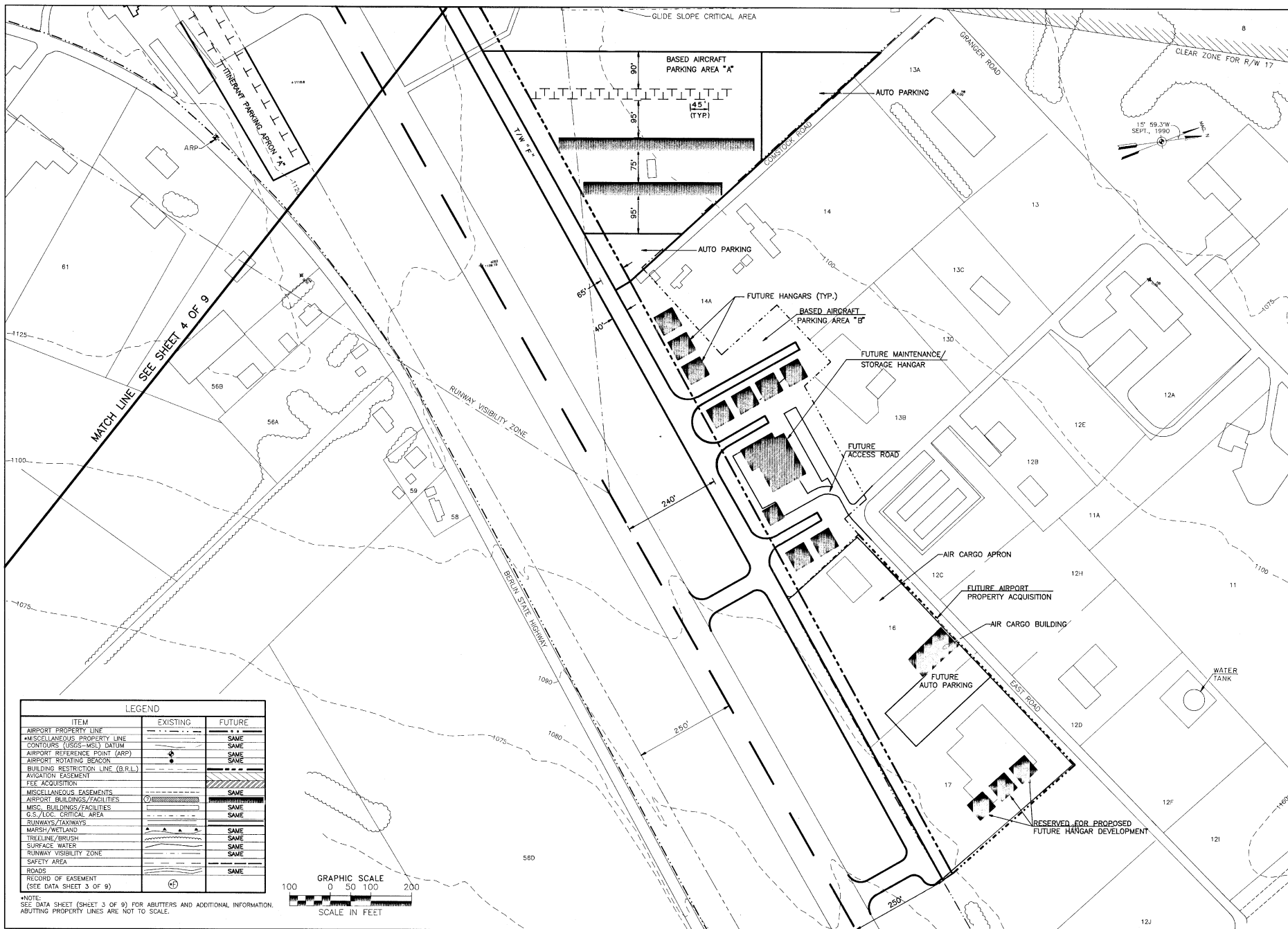
DATE

BY

DATE

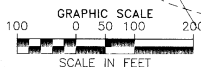
BY

DATE

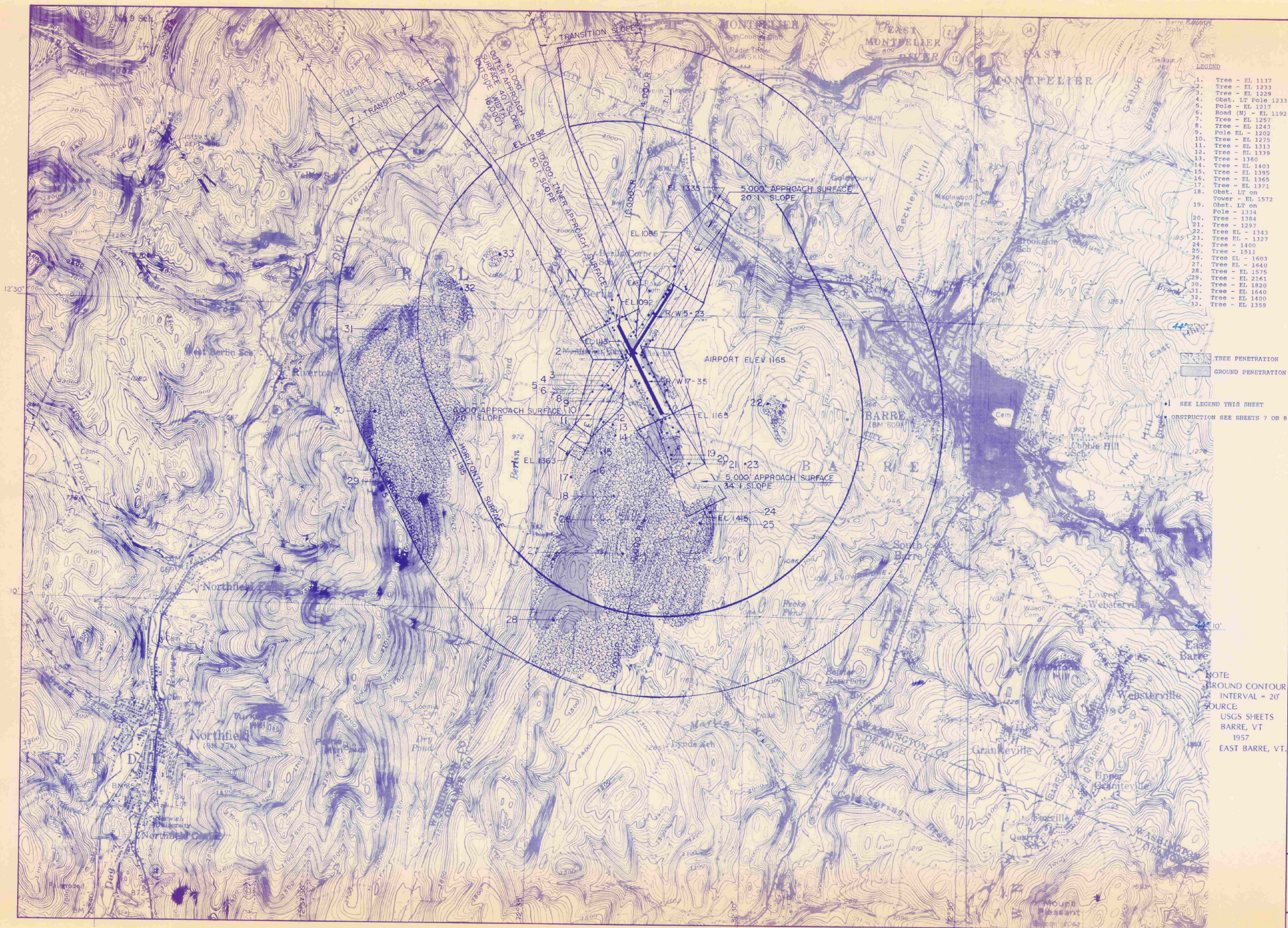


LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE	---	---
MISCELLANEOUS PROPERTY LINE	---	---
CONTOURS (100'-MILLI) DATUM	---	---
AIRPORT REFERENCE POINT (ARP)	●	●
AIRPORT ROTATING BEACON	●	●
BUILDING RESTRICTION LINE (B.R.L.)	---	---
AVIATION EASEMENT	---	---
FEE ACQUISITION	---	---
MISCELLANEOUS EASEMENTS	---	---
AIRPORT BUILDINGS/FACILITIES	---	---
MISC. BUILDINGS/FACILITIES	---	---
G.S./LOC. CRITICAL AREA	---	---
RUNWAYS/TAXIWAYS	---	---
MARSH/WETLAND	---	---
TREELINE/BRUSH	---	---
SURFACE WATER	---	---
RUNWAY VISIBILITY ZONE	---	---
SAFETY AREA	---	---
ROADS	---	---
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)	---	---

NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.



ENGINEER/ARCHITECT		PROJECT NO.		FILE NAME		DATE	
		60802		60802ALP		10/01/2000	
Hoyle, Tanner & Associates, Inc.		engineers planners architects		HFA		DATE: MARCH, 1991	
One Commerce Park North, Bedford, New Hampshire 03102		US: BY JEP		DR: BY HW		SCALE: 1"=100'	
EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT		TERMINAL AREA PLAN-NORTH		DRAWING NO.		5	
SHEET		5		OF		9	



- LEGEND**
- 1. Tree - EL 1137
 - 2. Tree - EL 1233
 - 3. Tree - EL 1229
 - 4. Obst. LT Pole 1233
 - 5. Pole - EL 1227
 - 6. Road (N) - EL 1192
 - 7. Tree - EL 1257
 - 8. Tree - EL 1243
 - 9. Pole EL - 1202
 - 10. Tree - EL 1275
 - 11. Tree - EL 1313
 - 12. Tree - EL 1339
 - 13. Tree - 1360
 - 14. Tree - EL 1403
 - 15. Tree - EL 1395
 - 16. Tree - EL 1365
 - 17. Tree - EL 1371
 - 18. Obst. LT on Tower - EL 1572
 - 19. Obst. LT on Pole - 1334
 - 20. Tree - 1384
 - 21. Tree - 1297
 - 22. Tree EL - 1343
 - 23. Tree EL - 1327
 - 24. Tree - 1400
 - 25. Tree - 1511
 - 26. Tree EL - 1603
 - 27. Tree EL - 1640
 - 28. Tree - EL 1578
 - 29. Tree - EL 2161
 - 30. Tree - EL 1820
 - 31. Tree - EL 1640
 - 32. Tree - EL 1400
 - 33. Tree - EL 1359

TREE PENETRATION
 GROUND PENETRATION
 SEE LEGEND THIS SHEET
 OBSTRUCTION SEE SHEETS 7 OR 8

ENGINEER/ARCHITECT		PROJECT NO.		60802	
Hoyle, Tanner & Associates, Inc.		DATE		MARCH, 1931	
First Commerce Bldg. North		DES. BY		H.W.	
Bedford NH 03102 1803 1440 1555		DR. BY		H.W.	
SCALE 1" = 2000'		CHECK BY		H.W.	
DO NOT SCALE DRAWING		DRAWING NO.		6	
EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT		SHEET		6 OF 9	
FAR PART 77 SURFACES PLAN		DRAWING NO.		6	

LEGEND		
ITEM	EXISTING	FUTURE
AIRPORT PROPERTY LINE		
MISCELLANEOUS PROPERTY LINE		
CONTOURS (100'S - MSL) DATUM		
AIRPORT REFERENCE POINT (ARP)		
AIRPORT ROTATING BEACON		
BUILDING RESTRICTION LINE (B.R.L.)		
AVIGATION EASEMENT		
TEE ACQUISITION		
MISCELLANEOUS EASEMENTS		
AIRPORT BUILDINGS/FACILITIES		
MISC. BUILDINGS/FACILITIES		
O.S./C.O. CRITICAL AREA		
RUNWAYS/TAXIWAYS		
MARSH/WETLAND		
TREELINE/BRUSH		
SURFACE WATER		
RUNWAY VISIBILITY ZONE		
SAFETY AREA		
ROADS		
RECORD OF EASEMENT (SEE DATA SHEET 3 OF 9)		
GRID POINTS *		

NOTE:
SEE DATA SHEET (SHEET 3 OF 9) FOR ABUTTERS AND ADDITIONAL INFORMATION.
ABUTTING PROPERTY LINES ARE NOT TO SCALE.
* DETAILED INFORMATION AVAILABLE ABOUT NOISE CONTRIBUTORS
AT THIS POINT, IN TECHNICAL REPORT CHAPTER 5.

AIRPORT FACILITIES	
NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOLLE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

ZONING DISTRICTS	
C- COMMERCIAL	
LN- LIGHT INDUSTRIAL	
R- RURAL RESIDENTIAL	



ENGINEER/ARCHITECT	
PROJECT NO.	60802
FILE NAME	60802 USE
DATE	NOV 87
DESCRIPTION	NOISE
Hoyle, Tanner & Associates, Inc. Five Commerce Park North, Bedford, New Hampshire 03102 ENGINEERS PLANNERS CONSULTANTS	
DATE	MARCH, 1991
SCALE	1"=400'
DR. BY	JAN
CHK. BY	JDF
DATE	MARCH, 1991
EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT NOISE CONTOURS AND LAND USE PLAN	
DRAWING NO.	9
SHEET	9 OF 9



U.S. Department
of Transportation

Federal Aviation
Administration

Air 03-2047

New England Region

12 New England Executive Park
Burlington, Massachusetts 01803

OCT 21 1991

X RECEIVED
OCT 25 1991
RAIL, AIR &
PUBLIC TRANSPORTATION

Patrick J. Garahan, Secretary
Vermont Agency of Transportation
133 State Street, Administration Building
Montpelier, Vermont 05602

Dear Mr. Garahan,

This letter acknowledges our acceptance of the E. F. Knapp State Airport Master Plan and our approval of the airport layout plan (ALP) prepared by Hoyle, Tanner and Associates of Bedford, NH under AIP grant 3-50-0001-0186 this date.

The development indicated on the ALP is approved subject to the following conditions:

As noted on sheet 2 of the ALP, waivers to design criteria for runway 17-35 safety areas, building restriction line, aircraft parking line and parallel taxiway separation are made a part of this approval. Buildings, now existing, which penetrate a 1000' wide primary surface for 17-35 are not required to be obstruction lighted.

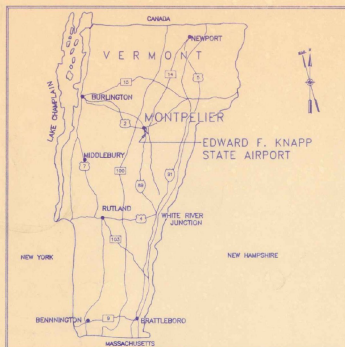
An environmental assessment for any proposed property acquisition and its intended use, will be prepared.

Review of this master plan and the ALP has been with respect to safety, efficiency and utilization, it does not represent a commitment to provide financial assistance to implement the proposed plan.

Sincerely,

William M. Cronan
William M. Cronan, Manager
Planning and Development Branch

cc: Ludders, HTA



LOCATION MAP
NOT TO SCALE

STATE OF VERMONT AGENCY OF TRANSPORTATION **MASTER PLAN EDWARD F. KNAPP STATE AIRPORT**

FAA PROJECT NO. 3-50-0001-0186

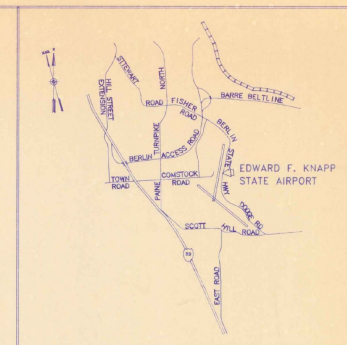
VAOT PROJECT NO. AIR 03-2047

INDEX TO DRAWINGS

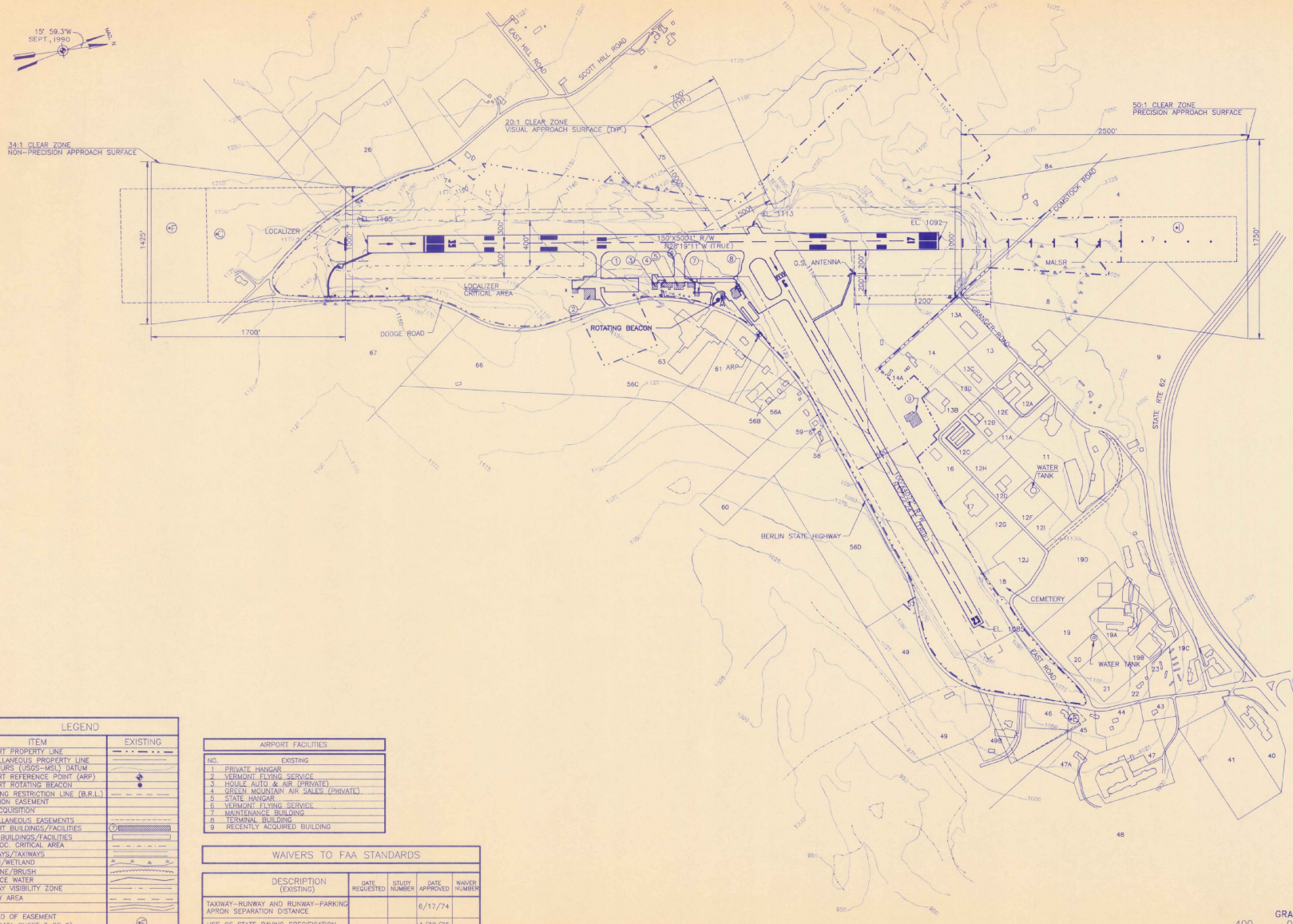
1. EXISTING AIRPORT LAYOUT PLAN
2. AIRPORT LAYOUT PLAN
3. DATA SHEET
4. TERMINAL AREA PLAN - SOUTH
5. TERMINAL AREA PLAN - NORTH
6. AIRPORT IMAGINARY SURFACES PLAN
7. PLAN AND PROFILE RUNWAY 17-35
8. PLAN AND PROFILE RUNWAY 5-23
9. LAND USE PLAN

MARCH, 1991

**HOYLE, TANNER & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS/SURVEYORS
BEDFORD, NEW HAMPSHIRE**

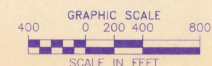
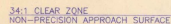


VICINITY MAP
NOT TO SCALE



WAIVERS TO FAA STANDARDS				
DESCRIPTION (EXISTING)	DATE REQUESTED	STUDY NUMBER	DATE APPROVED	WAIVER NUMBER
TAXIWAY--RUNWAY AND RUNWAY--PARKING APRON SEPARATION DISTANCE			6/17/74	
USE OF STATE PAVING SPECIFICATION			4/30/75	
CONSTRUCTION OF APRON SERVED BY STUB TAXIWAY			4/29/75	

SHEET	1	OF	DRAWING NO.	EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT		EXISTING AIRPORT LAYOUT PLAN		
				Hoyle, Tanner & Associates, Inc. HTA engineers Five Commercial Park North, Bedford, New Hampshire 03122 Companies everywhere		PROJECT NO. 60802 FILE NAME 60802AL.P no text about names		DATE 08/11/91 DATE 08/11/91 DATE 08/11/91
SCALE: 1" = 400' DATE: MARCH, 1991 DES. BY JEP CH. BY HW				CADD BY RJ REV.				DESCRIPTION REV.



AIRPORT FACILITIES	
NO.	EXISTING
1	PRIVATE HANGAR
2	VERMONT FLYING SERVICE
3	HOULE AUTO & AIR (PRIVATE) (TBR)
4	GREEN MOUNTAIN AIR SALES (PRIVATE) (TBR)
5	STATE HANGAR (TBR)
6	VERMONT FLYING SERVICE (TBR)
7	MAINTENANCE BUILDING
8	TERMINAL BUILDING
9	RECENTLY ACQUIRED BUILDING

WAIVERS TO FAA STANDARDS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NEW ENGLAND REGION

Approved: *William H. Carr*
Date: *OCT 21 1991*

Approved subject to comments and
recommendations in letter dated
OCT 21 1991

VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT

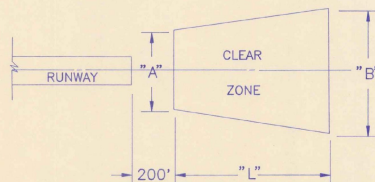
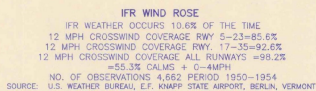
Approved: *Stanford D. New Atlas*
Date: *April 15, 1991*

E.F. KNAPP MASTER PLAN UPDATE
ADVISORY COMMITTEE

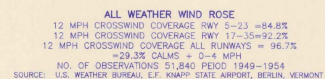
Approved: _____
Date: _____
Advisory Committee Chairman

SHEET 2 OF 9

RECORD OF EASEMENT		
PARCEL NO.	PROPERTY OWNER	
C	DODGE	EASEMENT AREA & CLEAR AREA
D	DODGE	R.O.W. TO BEACON
E	COMSTOCK	EASEMENT & CLEAR AREA
F	WOODBURY	EASEMENT & CLEAR AREA
G	DODGE	QUADRANT
H	PRESCOTT	POLE LINE EASEMENT W.D.-05
I	STEVENS	POWERLINE EASEMENT & R.O.W.-05
J	BERLIN PROPERTIES, INC.	AVIGATION EASEMENT W.D.-03
	BROWN & BURLINGTON	POWERLINE EASEMENT W.D.-05

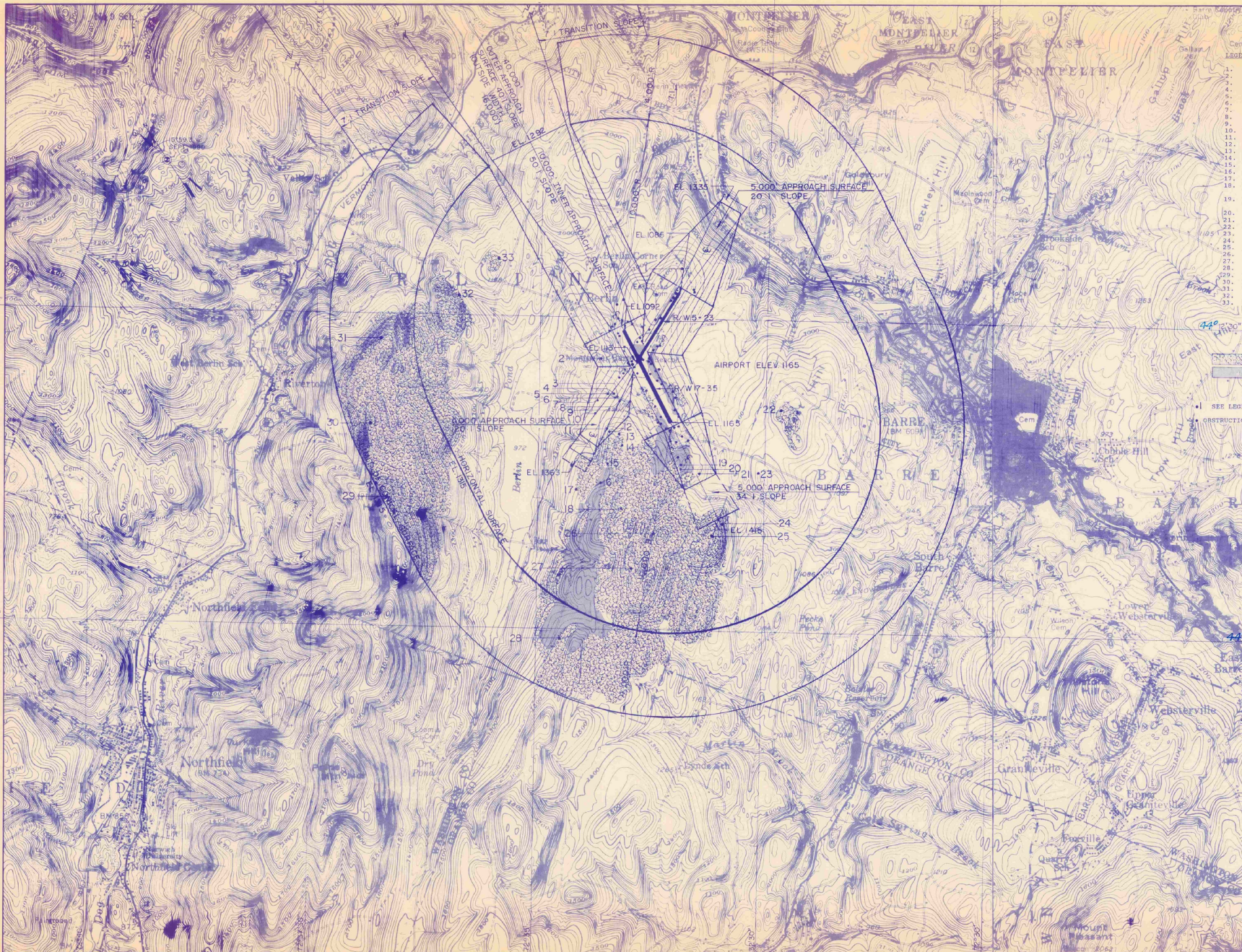


CLEAR ZONE DATA					
RUNWAY	CATEGORY	APPROACH SLOPE	"L"	"A"	"B"
17	PRECISION	50:1	2,500'	1,000'	1,750'
35	NON-PRECISION	34:1	1,700'	1,000'	1,425'
5	VISUAL	20:1	1,000'	500'	700'
23	VISUAL	20:1	1,000'	500'	700'
5 (FUTURE)	VISUAL	20:1	1,000'	250'	450'
23 (FUTURE)	VISUAL	20:1	1,000'	250'	450'



AIRPORT DATA			
ITEM	EXISTING	FUTURE	
AIRPORT ELEVATION (U.S.G.S.-M.S.L.)	115	SAME	
OPERATIONAL ROL	COMMER. STD. OTHER	SAME	
MEAN MAX. TEMP. HIGHEST MONTH	84.87	SAME	
AIRPORT CATEGORY	SHORT HAUL	SAME	
TERMINAL NAVG.	02R	LOC 20R	
COMBINED WIND COVERAGE (A/W)	66.7% (20H)	SAME	
DIST. & DIR. TO MONTEPPIER	3 NMI WIND	SAME	
LAND OWNED IN FEES (ACRES)	165	+ 265	
AVIGATION EASEMENT (ACRES)	5.27	124.27	
OWNER	STATE OF VERMONT	SAME	
MAGNETIC DECLINATION	15.9 9.3 W	VARIES	
AIRCRAFT REGISTRATION GROUP	B	SAME	
AIRCRAFT APPROACH SPEED CLASS	B	SAME	
AIRPORT REFERENCE POINT (ARP)	44°12'12.4N 72°33'46.0W	SAME	

RUNWAY DATA						
ITEM	RUNWAY 17-35		RUNWAY 5-23			
	EXISTING	FUTURE	EXISTING	FUTURE		
PHYSICAL LENGTH	9,001'	6,000'	SAME	SAME		
WIDTH	150'	100'	SAME	SAME		
SAFETY AREA WIDTH		52.3 *	40' **	150' **		
TAXIWAY WIDTH	40'	SAME	SAME	SAME		
SAFETY AREA WIDTH SURFACE COMPOSITION	ASPHALT	SAME	ASPHALT	SAME		
PYMT. STRENGTH (X1000PSI)	31SW /40SW	SAME	30SW /40CW	SAME		
PAYMENT TYPE	ASPHALT	SAME	ASPHALT	SAME		
RUNWAY LIGHTING	MIRLS	SAME	MIRLS	SAME		
RUNWAY MARKING	PRECISION	SAME	BASIC	SAME		
EFFECTIVE GRADIENT (%)	0.22%	0.31%	SAME	SAME		
A/W WIND COEFFICIENT (%) 12mph	92.2%	SAME	84.9%	SAME		
ILS LOC RW17	GORRICH RW13					
APPROACH AIDS	MALSR RW 17 REL RW13	SAME	NONE	SAME		
VISUAL AID	CEIL RW35	PAPI RW 17	NONE	PAPI RW 17		
CRITICAL AIRCRAFT APPR SPD.	REITATION II (B)	SAME	BE99(B)	SAME		
CRITICAL AIRCRAFT WINGSPAN	CAT IIION II (B)	SAME	BE99(B)	SAME		
RUNWAY BEARINGS	N28°19'11"N		N22°22'42"E			
RUNWAY END COORDINATES	5 23 17	44° 12' 08.7" N 44° 12' 42.3" N 44° 12' 23.6" N	72° 33' 08.7" E 72° 33' 21.6" E 72° 33' 05.6" E	72° 33' 18.7" W 72° 33' 21.6" W 72° 33' 18.7" W		



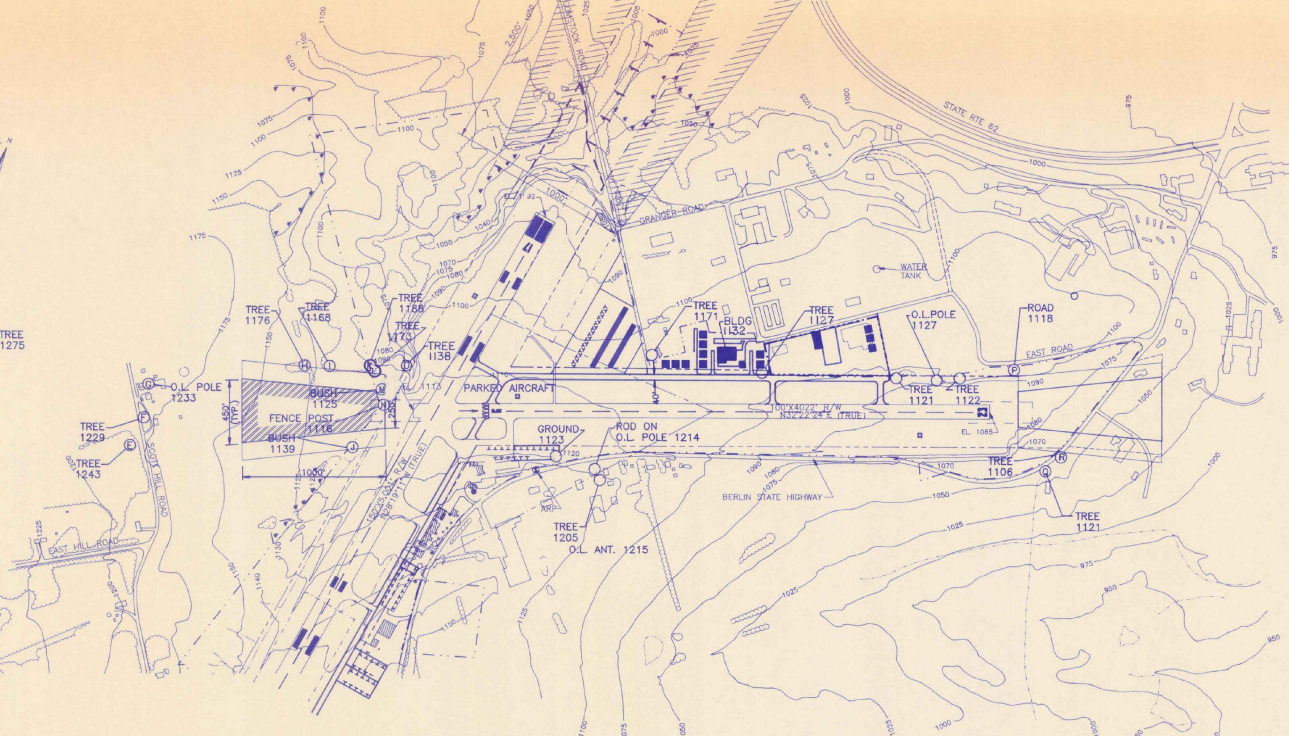
1. Tree - EL 1137
2. Tree - EL 1233
3. Tree - EL 1229
4. Obst. LT Pole 1233
5. Pole - EL 1217
6. Road (H) - EL 1192
7. Tree - EL 1257
8. Tree - EL 1243
9. Pole EL - 1202
10. Tree - EL 1275
11. Tree - EL 1313
12. Tree - EL 1339
13. Tree - 1360
14. Tree - EL 1403
15. Tree - EL 1395
16. Tree - EL 1365
17. Tree - EL 1371
18. Obst. LT on
19. Tower - EL 1572
20. Obst. LT on
21. Pole - 1334
22. Tree - 1384
23. Tree - 1297
24. Tree EL - 1343
25. Tree - 1327
26. Tree - 1400
27. Tree EL - 1603
28. Tree EL - 1640
29. Tree - EL 1575
30. Tree - EL 1561
31. Tree - EL 1620
32. Tree - EL 1640
33. Tree - EL 1400
34. Tree - EL 1359

SEE LEGEND THIS SHEET
CONSTRUCTION SEE SHEETS 7 OR 8

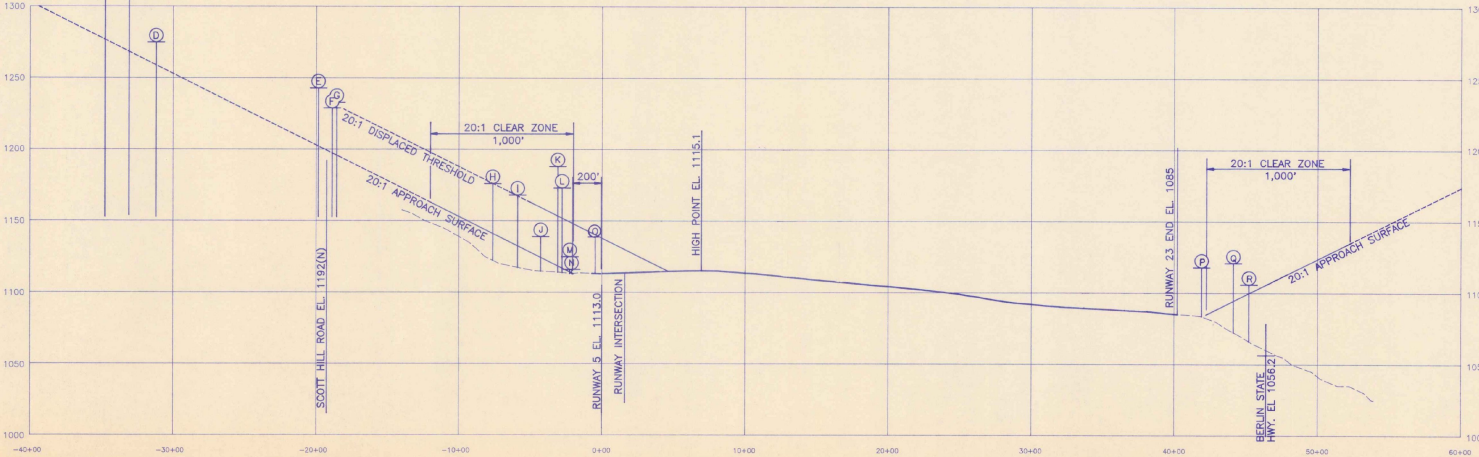
ENGINEER/ARCHITECT		PROJECT NO		60802	
Hoyle, Tanner & Associates, Inc.		DATE		MARCH, 1991	
Five Commerce Park North, Bedford NH 03102 (603) 689-1555		SCALE		1" = 2000'	
EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT		DRAWN BY		JW	
FAR PART 77 SURFACES PLAN		CHECKED BY		JW	
DRAWING NO		SHEET		6 OF 9	
6		DO NOT SCALE DRAWING			



TREE 1275
TREE 1313
TREE 1339
TREE 1360



PLAN
SCALE: 1"=400'



PROFILE

- ⊖ - OBSTRUCTIONS TO RUNWAY 5-23 APPROACH SURFACES
- - OBSTRUCTIONS TO RUNWAY 5-23 PRIMARY OR TRANSITIONAL SURFACES

ENGINEER/ARCHITECT	
PROJECT NO. 60802	
FILE NAME: 60802P5	
DATE: MARCH, 1991	
SCALE: AS SHOWN	
DRAWING NO. 8	
SHEET 8 OF 9	
EDWARD F. KNAPP STATE AIRPORT BERLIN, VERMONT PLAN & PROFILE RUNWAY 5-23	
Hoyle, Tanner & Associates, Inc. engineers architects planners consultants 100 Commercial Street, Berlin, New Hampshire 03502	
DATE: MARCH, 1991	
SCALE: AS SHOWN	
DRAWING NO. 8	
SHEET 8 OF 9	

