

INDEX OF SHEETS

1.	Title
2.	Typical
3-4	Quantity Sheets
5	Drainage
6-7	Earthworks
8-10	A.O.M. Detail Sheets
11-15	Blank
16-19	Layouts

ROADWAY STANDARDS

20	A-61 Slopes in Solid Rock Excavation	4-20-73 R
21	B-5 Typical Slope Rounding	12-6-71
22	B-11 Underdrain in Shattered Rock Subgrade	12-12-74
23	D-2 Underdrain	12-16-76
24	D-3 Treated Gutters	4-27-73 R
25	D-4 Metal End Sections Flushing Basins	7-28-75 R
26	D-5 Drop Inlets	4-8-75
27	G-1 Cast Iron Grate Type A	9-19-78 R
28	D-16 Cast Iron Grate Type B	11-19-78 R
29	E-2 Approach Signs Road Construction	6-7-77 R
30	E-6 On Project Construction Signs	6-7-77 R
31	E-7 Barricades	6-8-77 R
32	E-7a Barricade	6-8-77 R
33	G-1 Standard Steel Beam Guard Rail	6-8-77 R
34	G-1d Steel Beam Guard Rail w/ Wood Posts Type II	3-2-77 R
35	G-4 Wood Marker Posts	5-23-74 R
36	J-1 Boundary Markers	12-6-71
37	T-1 Temporary Erosion Control Details	12-7-76 R
38	T-2 Temporary Erosion Control Details	7-5-72
39	Blank	
40.	Blank	
41-59	Mainline Cross Sections	
60-61	Approach 100+50 Lt. Sections	
62-63	Approach 100+00 Lt. Sections	
17	Multi-Purpose Trail Typical	
19	Approach Typical	
42	WES Detail with Stone Fill, Type II	

RECOR PLANS-MATERIALS
GROTON RS 0217 (I)
CONTRACTOR - S.G. PHILLIPS, WAITSFIELD, VT.
CONTRACT DATED - 29 AUGUST 1977
CONSTRUCTION BEGAN - 1 SEPTEMBER 1977
CONSTRUCTION COMPLETED - 22 NOVEMBER 1977

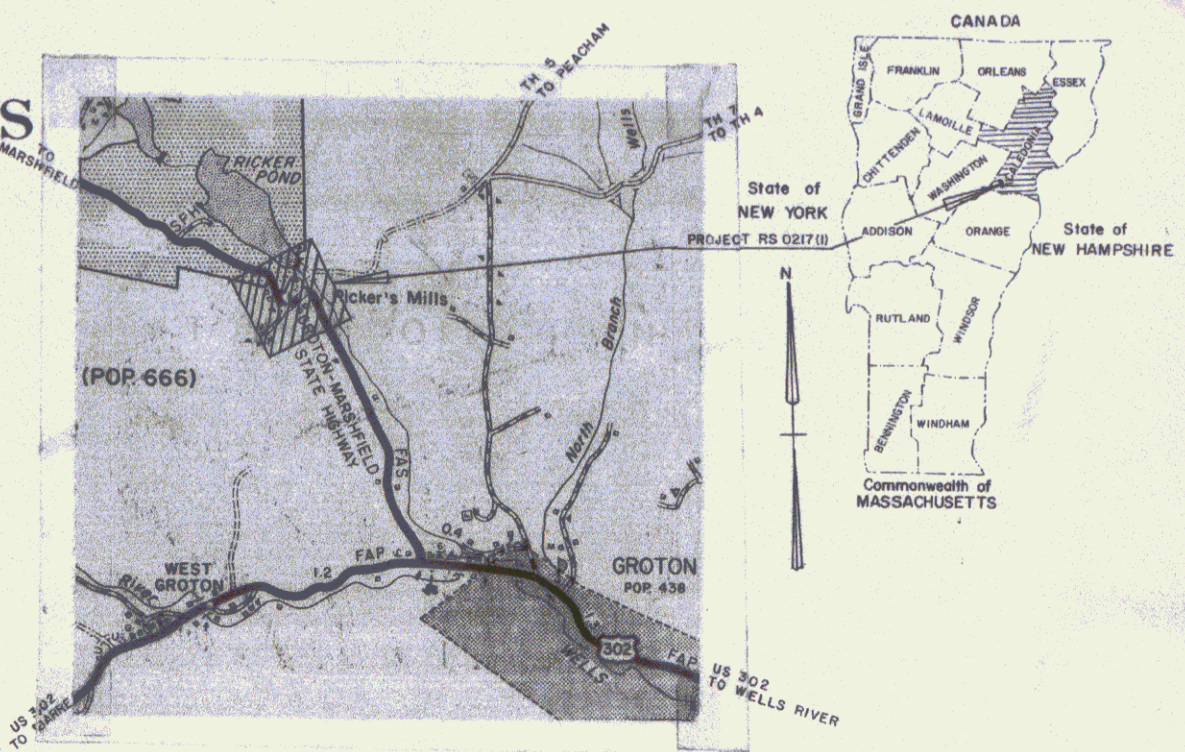
RESIDENT ENGINEER - FRED JORDAN
REINFORCING STEEL - AUBURN STEEL COMPANY, INC., AUBURN, N.Y.
GRAVEL FOR SHOULDERS, SUBBASE OF GRAVEL, GRANULAR BACKFILL FOR STRUCTURES - CLARK PITS, GROTON, VT.
SUBBASE OF DENSE GRADED CRUSHED ROCK - PEPINI CORPORATION, NEWBURY, VT.
BITUMINOUS CONCRETE PAVEMENT - COOLEY ASPHALT, WEBSTERVILLE, VT.
CONCRETE - LAWRENCE, WOODSVILLE, N.H.
GRANULAR BORROW, SAND CUSHION - CLARK PIT, GROTON, VT.
ASPHALT - B.P. OIL, CANADA
CGMP, MES, UNDERDRAIN, CARRIER PIPE, FLUSHING BASINS - NOTHEASTERN CULVERT CORP, WESTMINSTER, VT.
RCP - S.T. GRISWOLD & CO., INC., WILLISTON, VT.
CAST IRON GRATES WITH FRAMES - NEENAH FOUNDRY CO., NEENAH, WISC.

RECORD PLANS - FRED JORDAN

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FEDERAL AID SECONDARY

PROPOSED IMPROVEMENT
TOWN OF GROTON
COUNTY OF CALEDONIA
GROTON MARSHFIELD STATE HIGHWAY
VT 232



84 + 00.0
BEGIN PROJECT RS 0217 (I)
CONSTRUCT SATISFACTORY APPROACH
MM 1.251

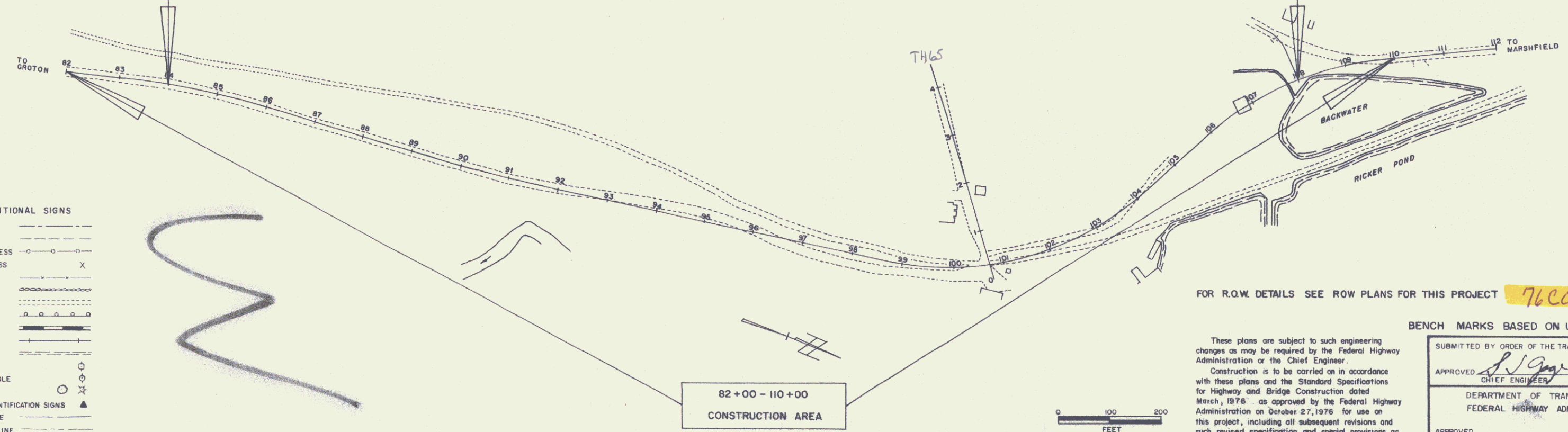
LENGTH OF PROJECT 2400.0 FEET = 0.455 MILE

1977	ADT	250
1997	ADT	445
1997	DHV	85
	D	6.0%
	T	6%
	V	40 MPH

108 + 00.0
END PROJECT RS 0217 (I)
CONSTRUCT SATISFACTORY APPROACH
MM 1.706

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	---
TELEPHONE POLE	---
TREES	---
F.A. CONST. IDENTIFICATION SIGNS	---
PROPERTY LINE	---
R.O.W. TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---



FOR R.O.W. DETAILS SEE ROW PLANS FOR THIS PROJECT

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Chief Engineer. Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976 as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specification and special provisions as are incorporated in these plans.

BENCH MARKS BASED ON USGS ELEV.

SUBMITTED BY ORDER OF THE TRANSPORTATION BOARD

APPROVED: *[Signature]* DATE: 7/18/77

CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____ DATE: _____

DIVISION ENGINEER

PROJECT RS N 0217 (I)

SHEET 1 OF 63 SHEETS

D-10 SRS 12/17/70

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	TOWN OF GROTON - LESSOR RICKER, WILTON D. - LESSEE	6	85+85 LT	88+60 LT	0.14A±								
1B		6	82+00 LT	88+47 LT	0.35A±		ALL R.T.&I.						HIGHWAY EASEMENT
			82+00 LT	88+60 LT	2813.51A±								
2A	TOWN OF GROTON - LESSOR NEEDHAM, IDA A. - LESSEE LANGEVIN, BERNICE W. - LESSEE	6	82+00 RT 83+68 RT	88+36 RT	0.4A±		DRAINAGE (P)						
2B		6	82+00 RT	88+35 RT	0.35A±		ALL R.T.&I.						HIGHWAY EASEMENT
			82+00 RT	88+36 RT	9.25A±								
3A	PEACHAM ACADEMY, INC. - LESSOR RESUE, ROBERT H. & AGNES W. - LESSEES	6	88+47 LT 87+85 LT 87+85 LT	95+18 LT 98+20 LT	0.9A±		ALL R.T.&I. ALL R.T.&I.						SEPTIC TANK SEWER LINE
3B		6, 7	88+35 RT 89+10 RT 93+00 RT 97+00 RT 98+67 RT 99+45 RT 100+00 RT 100+00 LT 100+53 RT 100+75 RT 101+00 RT 101+07 RT	98+67 RT 99+75 RT 100+45 RT	1.14A±		DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) SLOPE (P) (955 S.F.±) ALL R.T.&I. CULVERT & DRAINAGE (P) ALL R.T.&I. DRIVE (T) DRAINAGE (P) SLOPE (P) (1225 S.F.±)						FOUNDATION EXACT LOCATION & SIZE OF PIPES UNKNOWN MAIL BOXES DRIVE 30', GRAVEL, H.P. 1.57 DRIVE RELEASE DATE: DRIVE PERMIT DATE:
	(PARCEL 3C ON NEXT SHEET)			102+30 RT									

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	7	PARCEL #3 RESUE ADDED SLEEVE AT STA. 100+15.14 - 100+140 RT PER C.O. # 3810	10-8-76	KDP	WS
2	5, 7	ADD NEW PARCEL #9 - TOWN OF GROTON. INVOLVES TAKING ALL R.T.&I. TO T.H. 16 WHICH IS A CLASS A HIGHWAY. PER C.O. # 3266	12-21-76	NBB	WS
3	5, 7	CHANGED PROPERTY LINE BETWEEN PARCELS 3C AND 4A. PER C.O. # 3267	12-21-76	NBB	WS

MADE BY: NO BEAL DATE: 8-4-76
CHECKED BY: _____ DATE: _____

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
DEM. - DEMOLITION OR
REMOVAL
W - WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINES
TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND

SR - SR SLOPE RIGHTS
P - P PROPERTY LINE
Δ - Δ TOP OF CUT
O - O TOE OF SLOPE

APPROVED: Thomas P. Mayo DATE: 8-12-76
CHIEF OF PLANS & FILES

PROJECT: GROTON
NO. SO217 (1)
ROW SHEET 8 OF 63

ROW

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	TOWN OF GROTON - LESSOR RICKER, MILTON B. - LESSEE	6	85+85 LT	88+88 LT	0.14A±								
1B		6	82+00 LT	88+47 LT	0.35A±		ALL R.T.&I.						HIGHWAY EASEMENT
			82+00 LT	88+88 LT	2013.51A±								
2A	TOWN OF GROTON - LESSOR NEEDHAM, IDA A. - LESSEE LANGEVIN, DENNICE M. - LESSEE	6	82+00 RT	88+38 RT	0.4A±		DRAINAGE (P)						
2B		6	82+00 RT	88+35 RT	0.35A±		ALL R.T.&I.						HIGHWAY EASEMENT
			82+00 RT	88+38 RT	9.25A±								
3A	PEACOCK ACADEMY, INC. - LESSOR RESUE, ROBERT W. & AGNES W. - LESSEES	6	88+47 LT	95+18 LT	0.8A±		ALL R.T.&I. ALL R.T.&I.						SEPTIC TANK SEWER LINE
3B		6, 7	88+35 RT	98+87 RT	1.14A±		DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) DRAINAGE (P) SLOPE (P) (955 S.F.±) ALL R.T.&I. CULVERT & DRAINAGE (P) ALL R.T.&I.						FOUNDATION EXACT LOCATION & SIZE OF PIPES UNKNOWN MAIL BOXES DRIVE 50', GRAVEL, N.P. 1.57 DRIVE RELEASE DATE: DRIVE PERMIT DATE:
			100+53 RT	100+75 RT			DRIVE (T)						
	(PARCEL 3C ON NEXT SHEET)		101+00 RT	101+07 RT			DRAINAGE (P) SLOPE (P) (1225 S.F.±)						

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	7	PARCEL #3 RESUE ADDED SLEEVE AT STA. 100+15 LT - 100+40 RT. PER C.O. # 3810	10-8-76	KDP	
2	5, 7	ADD NEW PARCEL #9 - TOWN OF GROTON. INVOLVES TAKING ALL R.T.&I. TO T.H. 16 WHICH IS A CLASS A HIGHWAY. PER C.O. # 3266	12-21-76	NBB	
3	5, 7	CHANGED PROPERTY LINE BETWEEN PARCELS 3C AND 4A. PER C.O. # 3267	12-21-76	NBB	

MADE BY: NO REAL DATE: 8-4-76
CHECKED BY: _____ DATE: _____

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
DEM. RT. - DEMOLITION OR REMOVAL
W - WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINES
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND

SR - SR - SLOPE RIGHTS
P - P - PROPERTY LINE
Δ - Δ - TOP OF CUT
O - O - TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 8-12-76
CHIEF OF PLANS & DESIGNS

PROJECT GROTON
NO. SO217 (1)
ROW/SHEET 3 OF 8
SHEET 8 OF 63

ROW

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
3C		7	100+81 LT	105+72 RT	0.9 A±								
3D		6, 7	88+34 E 95+35 LT 88+36 RT	101+07 RT 105+17 LT 101+07 RT	1.4 A±		ALL R.T.&I. 3.0 A± 10.66 A±						HIGHWAY EASEMENT
4A	WALSH, LAWRENCE J. & JANE S.	7	105+03 LT 106+80 E 107+50 RT 108+50 RT	109+42 RT	0.9 A±		DRAINAGE (P) DRAINAGE (P)						HOUSE
4B		7	107+50 LT 105+17 LT 105+52 RT	109+10 RT 107+76 LT 109+42 RT	0.12 A±		ALL R.T.&I. 51.28 A± 0.7 A±						HIGHWAY EASEMENT
5	BATCHELDEN, ERNEST R. & DELORES	7	107+76 LT 107+76 LT	109+10 LT 109+10 LT	0.12 A±		ALL R.T.&I. 0.10 A±						HIGHWAY EASEMENT
6A	STATE OF VERMONT - DEPARTMENT OF FORESTS & PARKS	7	109+10 RT	110+00 RT	0.02 A±								1050 S.F.±
6B		7	109+10 RT 99+85 RT	110+00 LT	0.1 A±		ALL R.T.&I.						HIGHWAY EASEMENT SIGN

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: N B DEAL DATE 8-4-76
CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
D — DEMOLITION OR
REMOVAL
W — WATER SOURCES

_____	PRESENT	R.O.W.
---/---	TAKING WITHOUT ACCESS	
---/--- P L	TAKING WITHOUT ACCESS ALONG PROPERTY LINES	
_____	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

—SR—SR— SLOPE RIGHTS
—P—P— PROPERTY LINE
—Δ—Δ—Δ— TOP OF CUT
—○—○—○— TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 8-12-76
CHIEF OF PLANS & TITLES

PROJECT GROTON
NO. SO217 (1)

Row. SHEET 4 OF 1
SHEET 9 of 63

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
7	GREEN MOUNTAIN POWER CORPORATION												UTILITY
8	CONTINENTAL TELEPHONE COMPANY OF VERMONT												UTILITY
9	TOWN OF GROTON	7	100+70 LT	105+40 LT			ALL R.T.&I.						TOWN HIGHWAY 10 - CLASS 4 HIGHWAY
	RELINQUISHMENT NO. I		100 + 50 LT.	107 + 73 LT.									GROTON - MARSHFIELD STATE HWY. (1305'±)
	MAINTENANCE AGREEMENT AREAS												
	NO. 1		100 + 50 LT.	100 + 50 LT.									GROTON - MARSHFIELD STATE HWY. (45'±)
	NO. 2		100+00 LT.	107 + 73 LT.									GROTON - MARSHFIELD STATE HWY. (1305'±)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: KD PERKINS DATE 8-4-76
CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
D — DEMOLITION OR
REMOVAL
W — WATER SOURCES

_____	PRESENT	R.O.W.
---/---/---	TAKING WITHOUT ACCESS	
---/---/--- P L	TAKING WITHOUT ACCESS	ALONG PROPERTY LINES
_____	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

—SR—SR— SLOPE RIGHTS

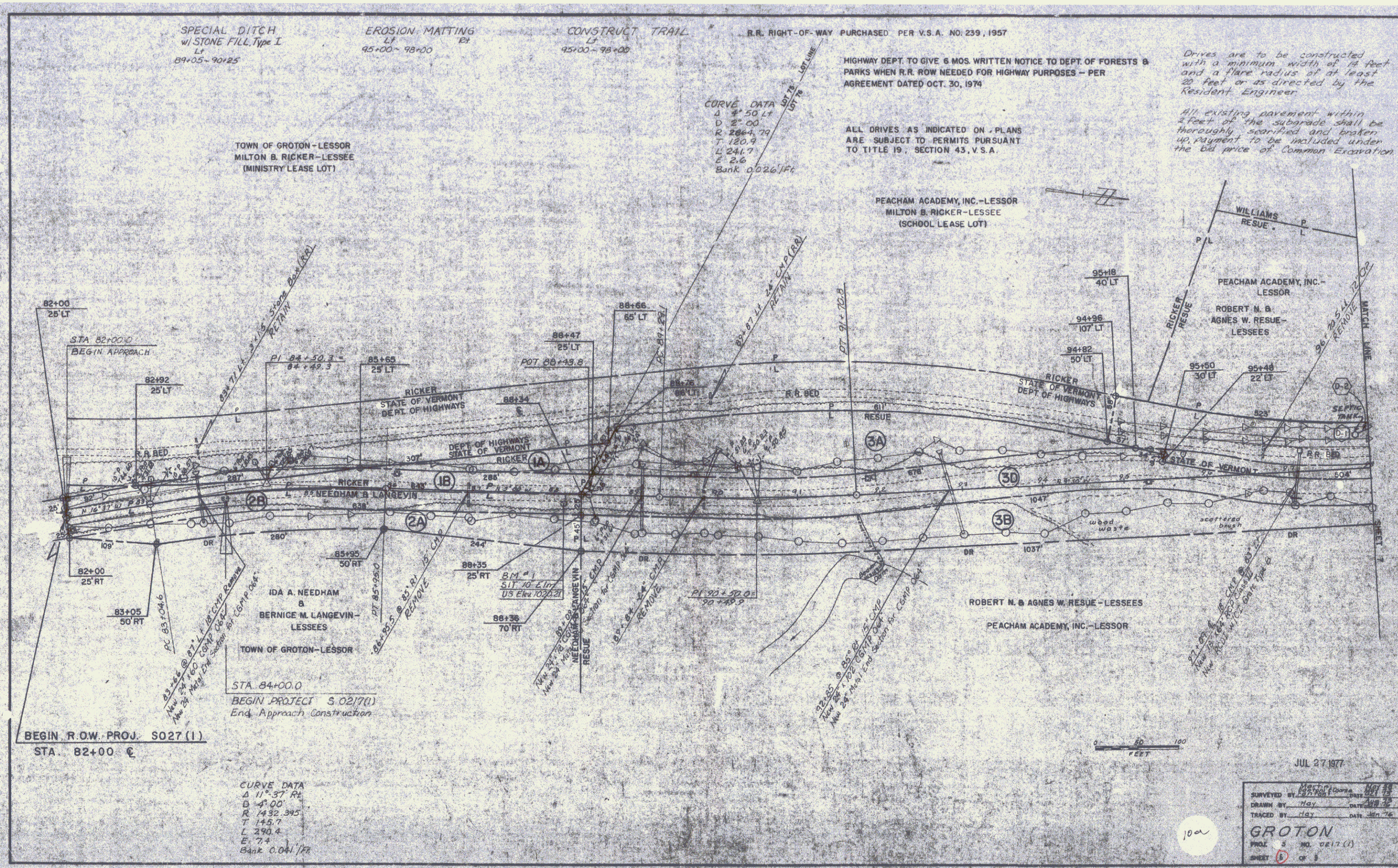
—P_L—P_L— PROPERTY LINE

—Δ—Δ—Δ— TOP OF CUT

—○—○—○— TOE OF SLOPE

APPROVED Thomas Y. Mayo DATE 8-12-76
CHIEF OF PLANS & TITLES

PROJECT GROTON
NO. S 0217 (1)
R.O.W. SHEET 5 OF 10
SHEET 10 of 10



SPECIAL DITCH
w/STONE FILL Type I
L
89+05-90+25

EROSION MATTING
L
45+00-78+00

CONSTRUCT TRAIL
L
75+00-78+00

R.R. RIGHT-OF-WAY PURCHASED PER V.S.A. NO. 239, 1957

HIGHWAY DEPT. TO GIVE 6 MOS. WRITTEN NOTICE TO DEPT. OF FORESTS & PARKS WHEN R.R. ROW NEEDED FOR HIGHWAY PURPOSES - PER AGREEMENT DATED OCT. 30, 1974

ALL DRIVES AS INDICATED ON PLANS ARE SUBJECT TO PERMITS PURSUANT TO TITLE 19, SECTION 43, V.S.A.

Drives are to be constructed with a minimum width of 14 feet and a flare radius of at least 20 feet or as directed by the Resident Engineer.

All existing pavement within 2 feet of the subgrade shall be thoroughly scarified and broken up, payment to be included under the bid price of Common Excavation.

CURVE DATA
D 4' 50 LT
D 2' 00
R 286+79
T 120.9
L 241.7
E 2.6
Bank 0.026/ft

TOWN OF GROTON - LESSOR
MILTON B. RICKER - LESSEE
(MINISTRY LEASE LOT)

PEACHAM ACADEMY, INC. - LESSOR
MILTON B. RICKER - LESSEE
(SCHOOL LEASE LOT)

WILLIAMS
RESUE - P/L

PEACHAM ACADEMY, INC. - LESSOR
ROBERT N. & AGNES W. RESUE - LESSEES

STA 82+00.0
BEGIN APPROACH

PI 84+30.3
84+49.3

88+47
25 LT

POT 88+49.8

88+66
65 LT

95+18
40 LT

94+96
107 LT

94+82
50 LT

95+50
30 LT

95+48
22 LT

82+00
25 RT

83+05
50 RT

STA 84+00.0
BEGIN PROJECT S.02/7(1)
End Approach Construction

88+35
25 RT

88+36
70 RT

ROBERT N. & AGNES W. RESUE - LESSEES
PEACHAM ACADEMY, INC. - LESSOR

BEGIN R.O.W. PROJ. S027(1)
STA. 82+00 @

CURVE DATA
D 11' 37' Rt
D 4' 00
R 1432.395
T 145.7
L 290.4
E 7.4
Bank 0.041/ft

0 50 100
FEET

JUL 27 1977

SURVEYED BY Hay DATE 4/8/77
DRAWN BY Hay DATE 4/8/77
TRACED BY Hay DATE 4/8/77
GROTON
PROJ. 5 NO. 017(1)
SHEET 5 OF 5

