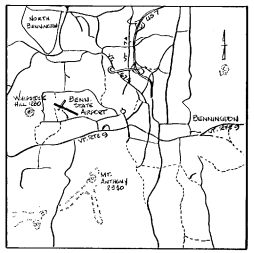
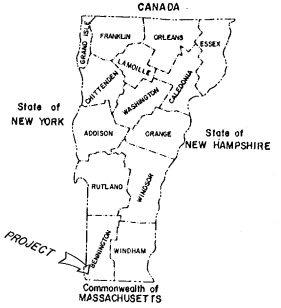
INDEX OF SHEETS

Sheet No	Description
1	Title Page
2	Plan, Profile and Typicals
3	Paint Details and Seeding Formula
4	Blank
5	Quantity Sheet
6	Earthworks Sheet
7-9	Cross Section Sheets
10	Standard Sheet B-5 (12-6-71R)
11	Standard Sheet D-2 (10-30-85R)
12	Standard Sheet D-4 (10-30-85R)
13	Standard Sheet F-2 (2-1-79R)
13-A	Standard Sheet J-5 (12-19-72R)

STATE OF VERMONT
AGENCY OF TRANSPORTATION



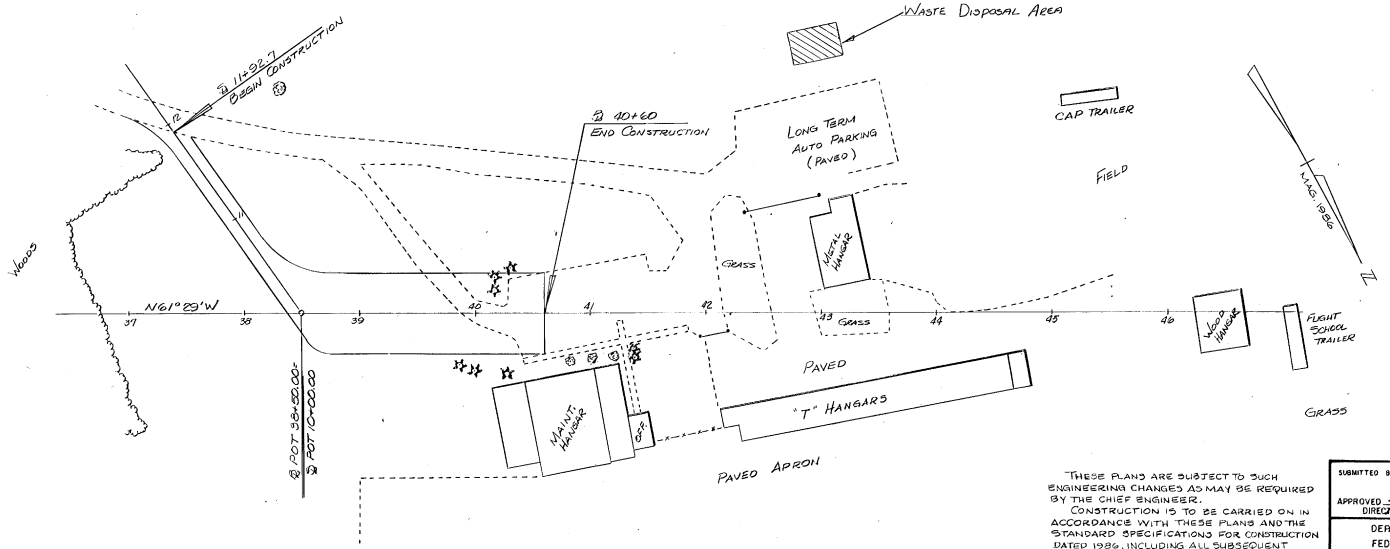
LOCATION MAP



PROPOSED IMPROVEMENT

BENNINGTON STATE AIRPORT
BENNINGTON, VERMONT

This project consists of expanding the existing auto parking lot to accomodate approximatly 36 additional spaces. Included in this project is subsurface drainage, pavement markings, inadvertant access fencing and construction of a short section of drive access onto the airport access road. Also included in this project is a 1½" pavement overlay south of the existing "T" hangars, some landscaping and lighting.



CONVENTIONAL SIGNS

- County Line
- Town Line
- Limits of Access
- Point of Access
- Fence Line
- Stone Wall
- Traveled Way
- Guard Rail
- Railroad
- Survey Line
- Culvert
- Power Pole
- Telephone Pole
- Trees
- Control of Access
- Property Line
- R.O.W. Taking Line
- Slope Rights (SR)
- Top of Cut
- Toe of Slope

DATUM
VERTICAL _____
HORIZONTAL _____

These plans are subject to such engineering changes as may be required by the chief engineer.
Construction is to be carried on in accordance with these plans and the standard specifications for construction dated 1986, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
APPROVED Frank E. Ward DATE 5-28-86
DIRECTOR OF ENGINEERING AND CONSTRUCTION

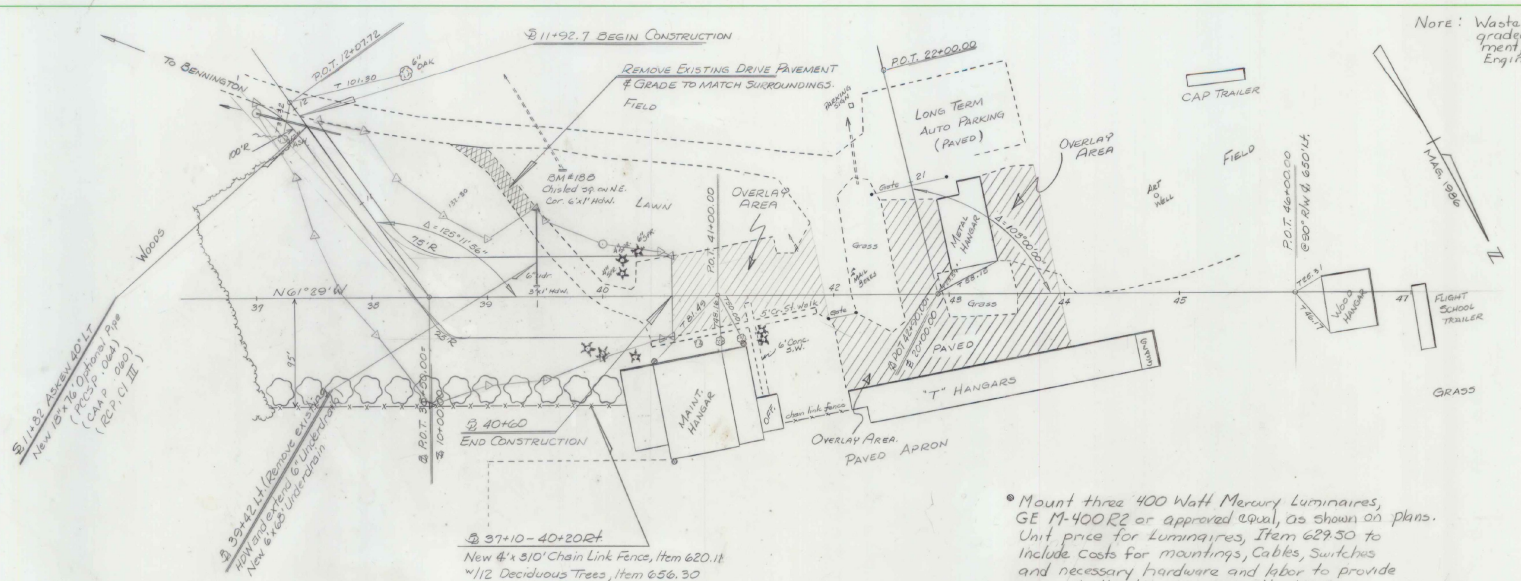
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT AIR № 03-2051
BENNINGTON STATE AIRPORT
SHEET 1 OF 13 SHEETS

BIDLIANG 44-133 40082-1

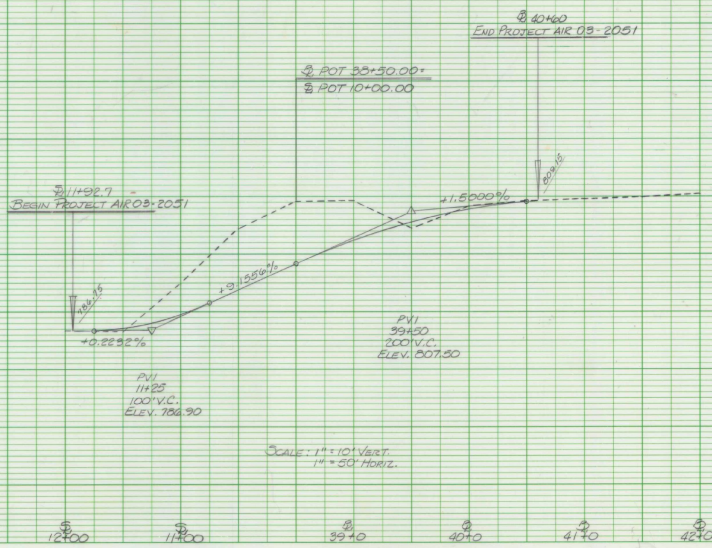
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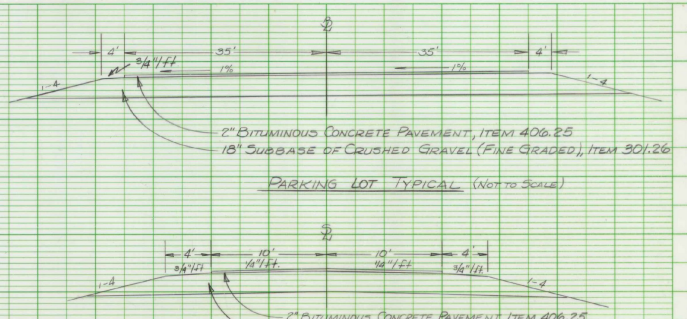
S.R.S. 12/17/70

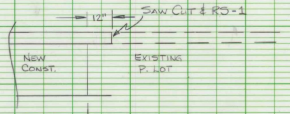


Note: Waste Disposal Area shall be graded, seeded etc. for turf establishment, to the satisfaction of the Engineer.

* Mount three 400 Watt Mercury Luminaires, GE M-400 R2 or approved Equal, as shown on plans. Unit price for Luminaires, Item 629.30 to include costs for mountings, Cables, Switches and necessary hardware and labor to provide power to the Luminaires via the 100 Amp Service located in the Terminal-Office.







BENNINGTON ST. AIRPORT
AIR 03-2051
AUTO PARKING EXPANSION
SURVEYED BY: R. MOREAU, 86
DRAWN BY: R. KERR, 86

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

SEEDING FORMULA , ITEM 651.15
RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR.PENNFINE)	95	85
8.34	5	ALFAFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT TREFOIL(VAR.EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED- TO BE APPLIED PER SEEDING FORMUL AS DIRECTED BY THE ENGINEER.

FERTILIZER- FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

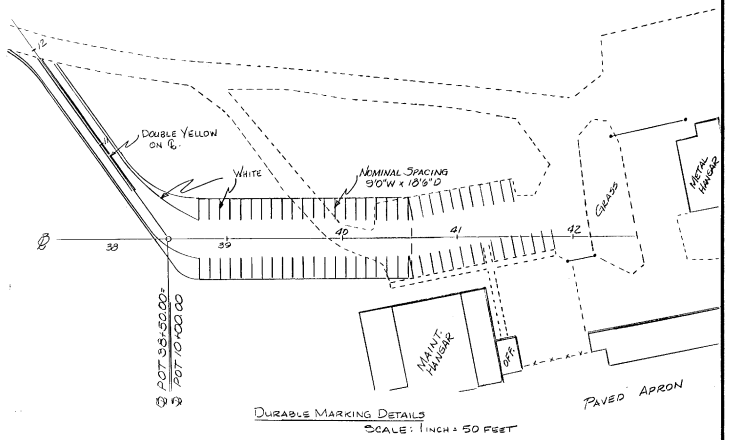
HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN- SEE STANDARD SHEET D-2.



DURABLE MARKING DETAILS
SCALE: 1 INCH = 50 FEET

DATUM
VERTICAL _____
HORIZONTAL _____

SURVEYED BY R. MOREAU DATE 1986
DRAWN BY R. KERR DATE 1986
TRACED BY _____ DATE _____

BENNINGTON STATE AIRPORT
PROJ. AIR NO. 03-2051
SHEET 3 OF 13

BRUNING 53428-3
07

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

	R.O.W.				BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
							7400	CY	COMMON EXCAVATION	203.15	48
							50	CY	SOLID ROCK EXCAVATION (EST.)	203.16	—
							100	CY	EXCAVATION OF SURFACES & PAVEMENTS	203.28	3
							2850	SY	FINE GRADING, SUBGRADE	203.40	19
							280	CY	TRENCH EXCAVATION OF EARTH	204.20	9
							10	CY	TRENCH EXCAVATION OF ROCK (EST.)	204.21	—
							1300	CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26	11
							8.0	GWT	EMULSIFIED ASPHALT	404.65	0.25
							540	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	10
									BASIN OPTION ITEMS		
							76	LF	18" RCCSP (.064)	601.0415	
							76	LF	18" CAAP (.060)	601.0215	
							76	LF	18" RCP, CLASS III	601.0815	
									END OPTION ITEMS		
							500	LF	6" UNDERDRAIN (DES & EST)	605.10	—
							2	EA	UNDERDRAIN FLUSHING BASINS (EST.)	605.95	
							4	HR	BULLDOZER RENTAL, TYPE II	608.11	
							2	EA	WOOD MARKER POSTS	619.15	
							310	LF	CHAIN LINK FENCE, 4 FEET	620.11	
							3	EA	LUMINAIRES	679.50	
							1	LS	MOBILIZATION	635.10	
							1700	LF	DURABLE 4" WHITE LINE	646.30	4
							300	LF	DURABLE 4" YELLOW LINE	646.31	16
							30	LB	SEED	651.15	3
							260	LB	FERTILIZER	651.18	5
							1	TON	AGRICULTURAL LIMESTONE	651.20	—
							1	TON	HAY MULCH	651.25	—
							125	SY	TOPSOIL	651.35	4
							12	EA	DECIDUOUS TREES (RED FLOWERING ORAB - MALUS HOPA) (B&B) 2" Cal.	656.30	—

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS	EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS
11+92.7	10+00.0				192.7		
38+50.0	40+60				210.0		
					402.7	0.0763	
TOTALS							

PROJECT NAME Bennington State Airport
PROJECT NUMBER AIR 05-2051

SHEET 5 OF 13 SHEETS

D-1 JAN 85

BRUNING 65083

EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	GRADES CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
	+0.22%	11+92.7	786.75				193				0			
		11+82	786.77			10.7	0	70			138	27		
X		11+75	786.79	786.79	0.00	7								
						25		70				82		
		11+50	786.85	787.13	+0.28		118				0			
X		11+25	786.90	788.02	+1.12	25		547						
						25								
		11+0	789.19	789.47	+0.28		478							
X		10+75	791.48	791.48	0.00	25		1359						
		10+50	798.77			25	995							
X	+9.156%	10+00.0 PVI	798.34	798.34	0.00	50	APPROX. INTERVAL	1385						
		39+50.0												
						50		2163						
		39+0	802.92	802.44	-0.48		862				0			
		39+42	806.77	805.15	-1.62	42		1178				2		
X		39+50	807.50	805.59	-1.91	8	856				2			
		40+0	808.25	807.77	-0.48	50		430				2		
						50	109				0			
X	+1.500%	40+50	809.00	809.00	0.00			233						
						10	144							
		40+60	809.15				105	46						
					TOTALS			7380				113		

CARRIED FORWARD
COLUMN FOOTINGS

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	GRADES CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.

CARRIED FORWARD
COLUMN FOOTINGS

SUMMARY AND BALANCES

STATION TO STATION	TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS EXCAVATION TOTAL CU YDS	EXCAVATION ROCK CU YDS	EMBANKMENT CUBIC YARDS

REMARKS

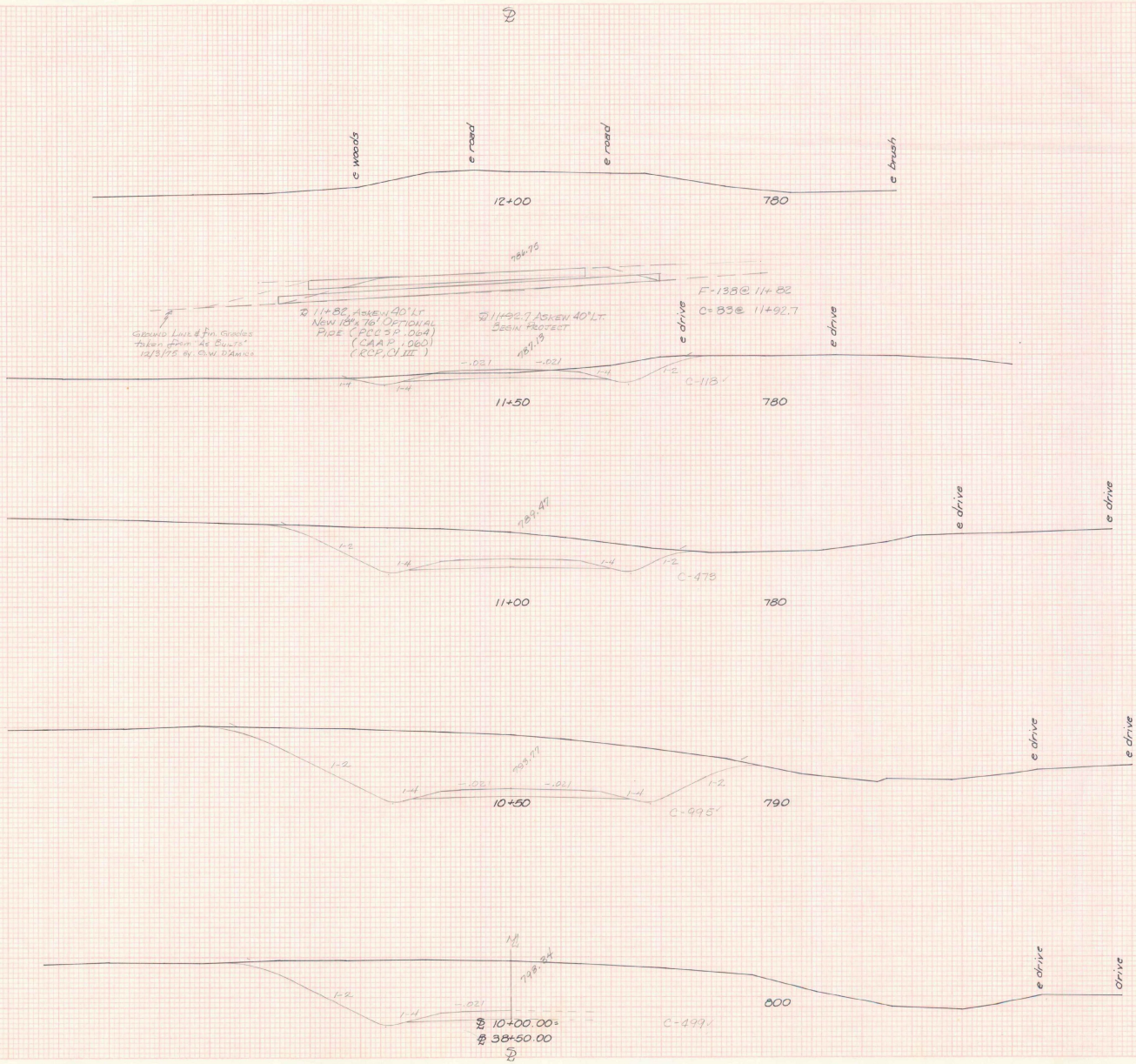
EARTH AND ROCK EXCAVATION	7380
SOLID ROCK EXCAVATION	
EARTH EXCAVATION	7380
PLANIMETERED FILL	113
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	130
MATERIALS AVAILABLE FOR FILLS	7380
EARTH EXCAVATION	
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION	
STRUCTURE EXCAVATION	
TOTAL MATERIAL AVAILABLE FOR FILL	7380
TOTAL FILL INCLUDING FACTOR	130
TOTAL MATERIAL FOR FILL	
BORROW	
EXCESS EXCAVATION	7267

PROJECT NAME Bennington State Airport
PROJECT NUMBER AIR 03-2051

SHEET 6 OF 13 SHEETS

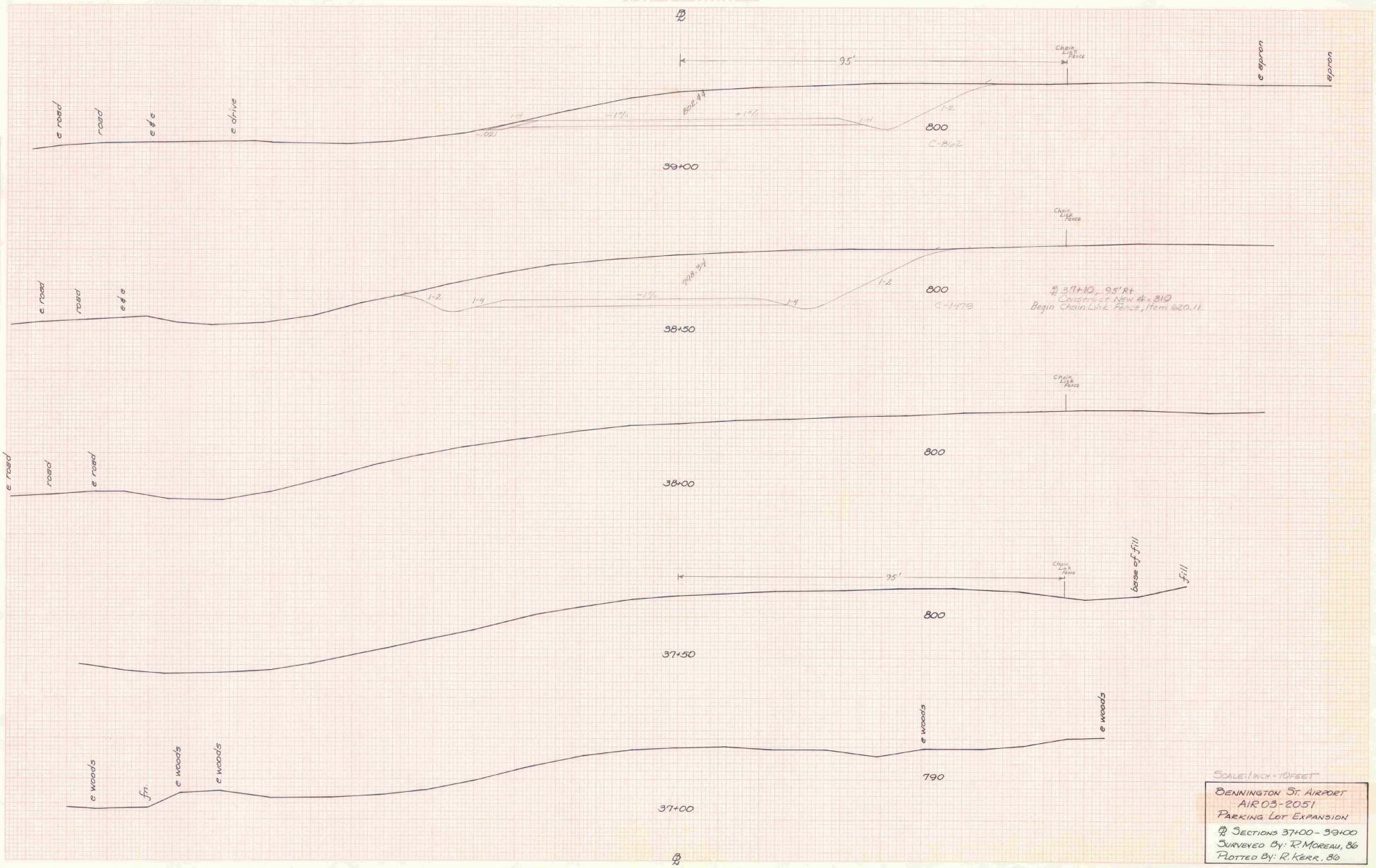
D-2 JAN 85

BRUNING 65083



SCALE: 1 INCH = 10 FEET

BENNINGTON ST. AIRPORT
AIR 03-2051
PARKING LOT EXPANSION
℄ SECTIONS 10+0 – 12+0
SURVEYED BY: R. MOREAU, 86
DRAWN BY: R. KERR, 86



SCALE: 1 INCH = 10 FEET

BENNINGTON ST. AIRPORT
AIR 03-2051
PARKING LOT EXPANSION

℄ SECTIONS 37+00 - 39+00
SURVEYED BY: R. MOREAU, 86
PLOTTED BY: R. KERR, 86

℄

e road
e road
e p.lot
e p.lot & s.w.
bldg.
41+00
800

End Project
℄ 40+60 (Match to Existing Grades)
C=105 @ 40+60

e road
e road
e p.lot
801.00
-1%
+1%
e p.lot & s.w.
e walk
bldg
40+50
800
C=119
149

℄ 40+20, 9.5' Rt
End Chain Link Fence, 4 Feet

e road
e road
e drive
802.77
e drive
-1%
+1%
Chain Link Fence
9.5'
e apron
40+00
800
C=105 @

e road
e road
e drive
e drive
805.09
-1%
+1%
Chain Link Fence
e apron
1:4
1:2
-.02'/ft
39+50
800
C=856'
P.C.

805.15
Interpolated Grade
1:4
-1%
-2% ±
39+42
800
Outlet 6" Underdrain (Remove Exist. Hdwl. & Extend 6" Underdrain)
New 6" x 68' Underdrain
℄

Scale: 1 inch = 10 feet

Bennington St. Airport
AIR 03-2051
Parking Lot Expansion
℄ Sections 39+42 - 41+00
Surveyed By: R. Moreau, 86
Drawn By: R. Kerr, 86