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3 - Gravel Computation Sheets
7 - Drainage Sheets

PROJECT NAME & NUMBER	TYPE	PVMT AREA
BERKSHIRE F.FG-034-1(1)	BIT. CONC. PVMT.	33,579.68 S.Y.

- RECORD PLANS -
MATERIALS

SUBBASE OF GRAVEL - WELD PIT, BERKSHIRE, VT.
SUBBASE OF SAND - WELD PIT, BERKSHIRE & GREEN PIT, ENOSBURG, VT.
CUTBACK ASPHALT - MOBIL OIL CORP, ALBANY, N.Y.
BITUMINOUS CONC. PAVMT. - L.M. PIKE, SWANTON, VT.
REFINED TAR - WITCO CHEMICAL CO., WORCESTER, MASS.
METAL CULVERT PIPES - NEW ENGLAND METAL CULV. CO., WHITE R. JCT., VT.
PLANK GUARD RAIL - WHITE R. VALLEY HARDWOOD, INC., RANDOLPH, VT.
GUARD RAIL ITEMS, CONC. PIPES, & D.I.'S - S.T. GRISWOLD, INC., WILLISTON, VT.
CONC. CLASSES 'AA' & 'B' - A.G. ANDERSON, SWANTON, VT.
ASPHALTIC ASBESTOS COATING - RUTLAND PRODUCTS, RUTLAND, VT.
WATER REPELLENT - A.H. HARRIS & SONS, INC., HYDE PARK, MASS.
TAR EMULSION - TECH CHEMICAL CORP., CHESHIRE, CONN.
JOINT SEALER - DEWEY & ALMY CHEM. DIV., W.R. GRACE CO., CAMBRIDGE, MASS.
REINFORCING STEEL, PREFORMED JOINT SEALER, & BRIDGE RAILING - VT. STRUCTURAL STEEL, BURLINGTON, VT.
PAINT WATERPROOFING - KIDBY EQUIPMENT CO., WHITE R. JCT., VT.
GREEN PAINT - MASTER BRONZE POWDER CO., CHICAGO, ILL.
GREY BRIDGE PAINT - RUST-OLEUM CORP., EVANSTON, ILL.
SEAMLESS COPPER WATER TUBE - SCOVILL MFG. CO., WATERBURY, VT.

CONTRACTOR - LAFERLE CONSTRUCTION CO. ST. JOHNSBURY, VT.	CONTRACT
RES. ENGINEER - T.K. PIERCE	DATED - DEC. 1, 1965
RECORD PLANS BY R.W.	BEGAN - APR. 16, 1966
	COMPLETED - AUG. 18, 1967
	ACCEPTED - AUG. 18, 1967

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

FEDERAL AID PROJECT

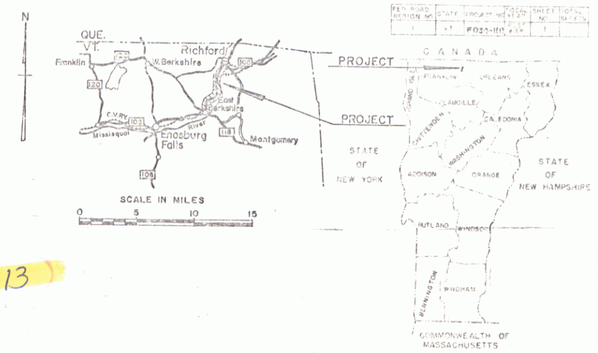
TOWN OF BERKSHIRE
COUNTY OF FRANKLIN
VT. ROUTE 105
ENOSBURG FALLS - RICHFORD ROAD

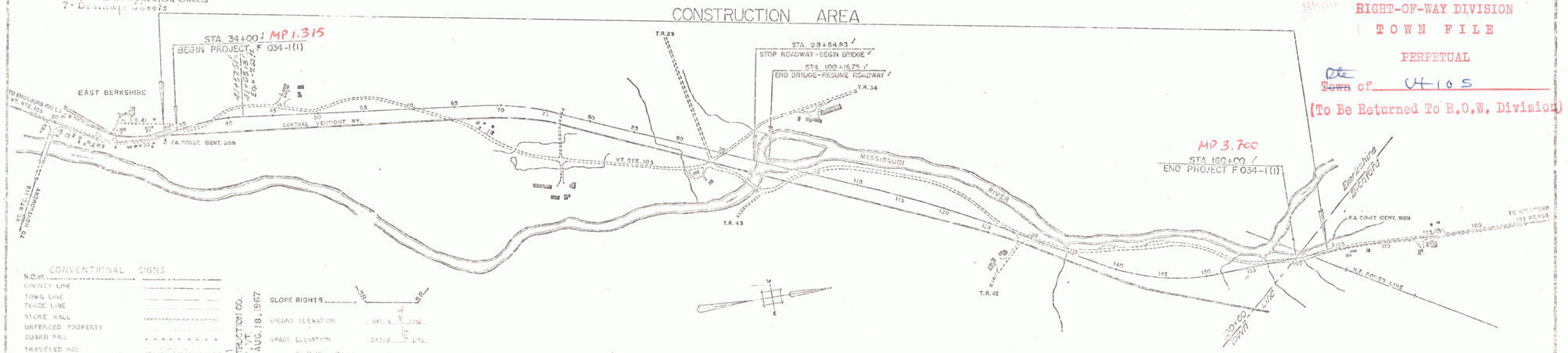
Pin# OOR 213

BEGINNING AT A POINT ON VT. ROUTE 105 IN THE VILLAGE OF EAST BERKSHIRE, 2.385 MILES SOUTHERLY OF THE BERKSHIRE—RICHFORD TOWN LINE AND EXTENDING NORTHERLY 2.365 MILES, INCLUDING BRIDGE.

LENGTH OF ROADWAY	12,440.46 FEET =	2.356 MILES
LENGTH OF BRIDGE	151.92 FEET =	0.029 MILES
LENGTH OF PROJECT	12,592.38 FEET =	2.385 MILES

ADT (1960)	900
ADT (1985)	1750
DHV (1985)	270
D	61%
T	7 1/2%
V	50 M.P.H.





RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Rte ~~Town~~ of VT 105
(To Be Returned To R.O.W. Division)

CONVENTIONAL SIGNS

R.O.W.
COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE
F.A. CONSTRUCTION IDENTIFICATION SIGNS

SLOPE RIGHTS
GROUND ELEVATION
GRADE ELEVATION

CURVE DATA
DEFLECTION OF ANGLE
DEGREE OF CURVE
RADIUS OF CURVE
TANGENT DISTANCE
LENGTH OF CURVE
EXTERNAL DISTANCE
POINT OF INTERSECTION
POINT OF CURVE
POINT OF TANGENT
POINT ON TANGENT
POINT ON SOLE TANGENT

REFERENCE F.FG-(13)-1(1)
CONTRACTOR - LAFERLE CONSTRUCTION CO.
CONSTRUCTION COMPLETED - AUG. 18, 1967
RECORD PLANS - R.W.

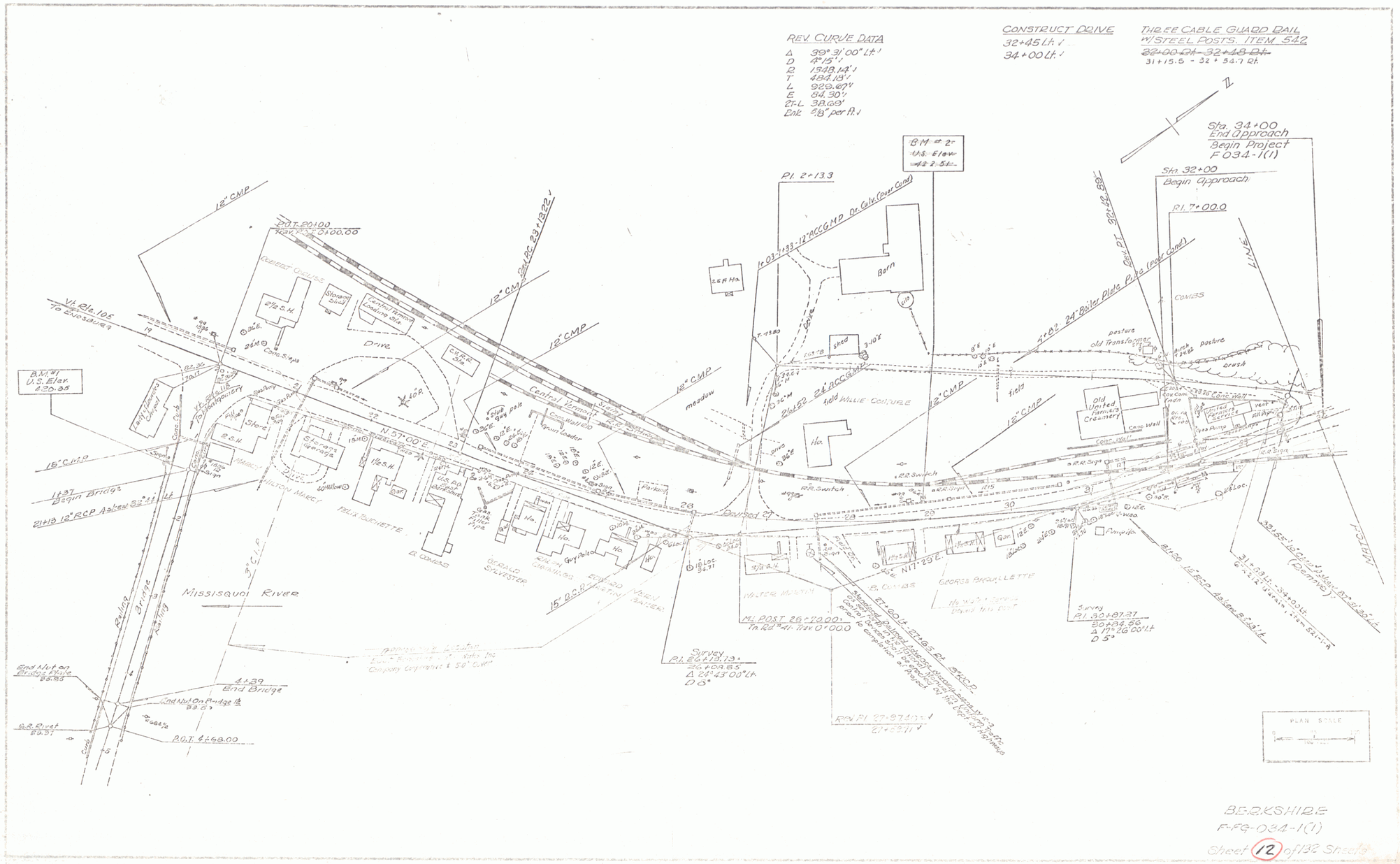
THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS ON THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL, 1964, AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 12, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

R.H. Arnold, Chief Engineer, Date 3/24/64	E.W. Dewey, Date 3/27/64	Paul Byron, Date 3/27/64	D.M. Ewalt, Date 3/30/64	Ira Lowe, Date 3/27/64	A.O. Backus, Date 4/2/64

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION

F.FG. 034-1(1)
SHEET 1 OF 12



BERKSHIRE
F-FG-034-1(1)
Sheet 12 of 132 Sheets

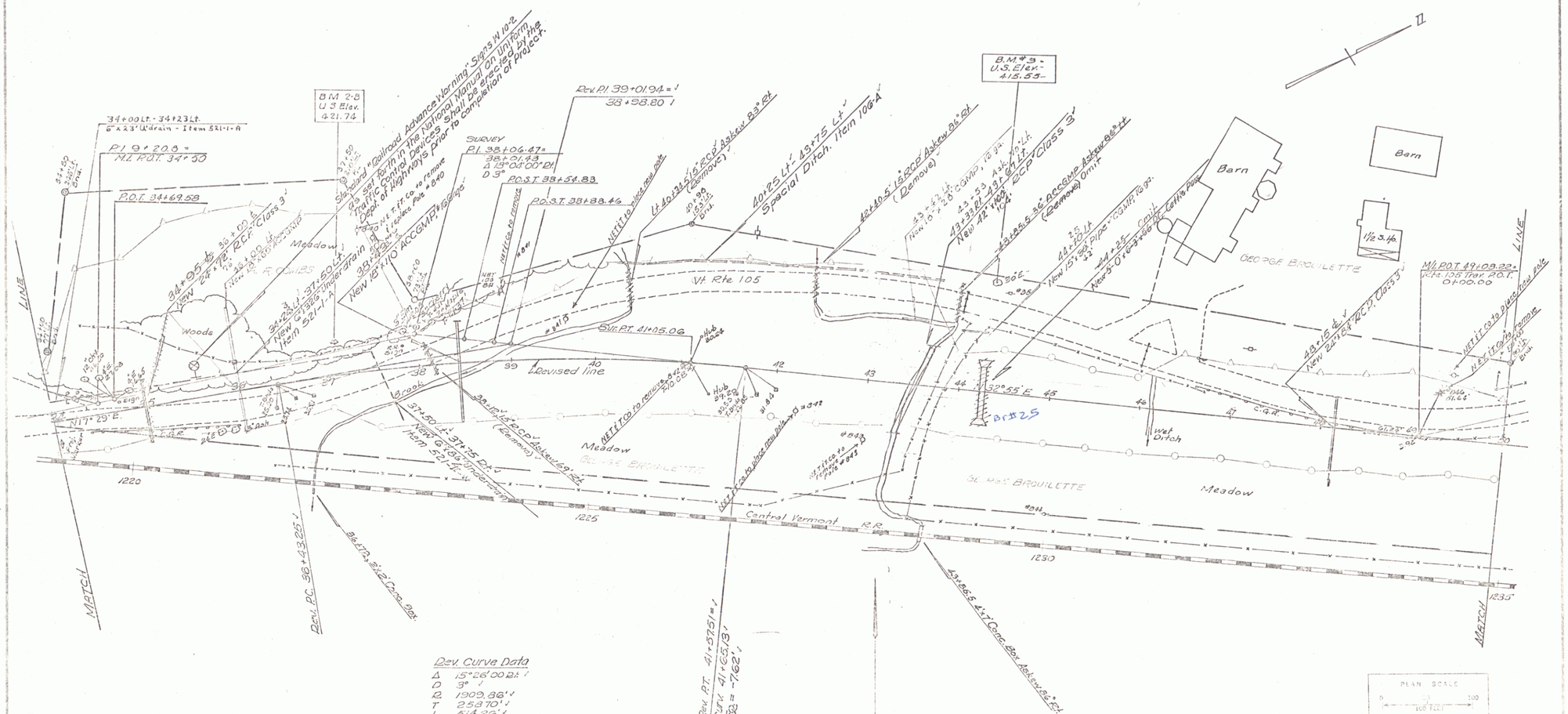
2

Plank Guard Rail, Item 540
~~44+00 Lt.~~
~~46+00 Lt.~~

Removal & Disposal Of Present Guard Rail, Item 549
Sta. 34+34 - 33+94 Rt.
Sta. 46+60 - 48+50 Lt.

Construct Drives
Sta. 43+80 Rt. +03
Sta. 44+90 Lt. +00
Sta. 46+50 Lt.

Three Cable Guard Rail W/ Steel Posts, Item 542
~~44+01 Lt - 44+49 Lt.~~
~~44+01 Rt - 44+49 Rt.~~



BERKSHIRE
F-RG-031-1(1)
Sheet 14 of 192 Sheets

3

Excavation & Removal of Road Surfaces and/or Pavements, Item 119
50+75 Lt. - 55+85 Lt.
56+50 Lt. - 58+15 Lt.

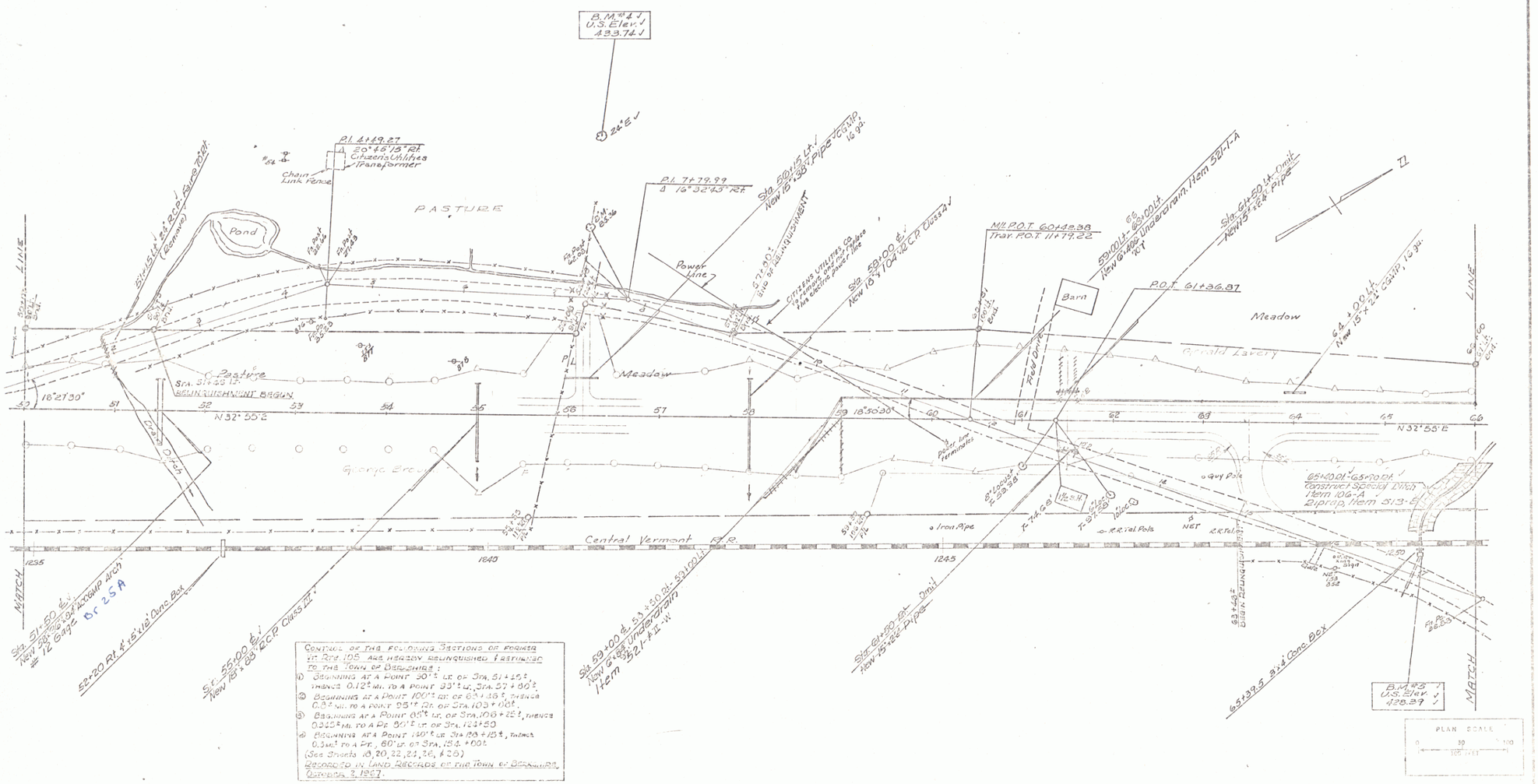
Guide Posts - Item 547.B
56+00 Lt. (2)
56+10 Lt. (2)

Construct Drives
Sta. 56+69 Lt. +18
Sta. 61+50 Lt.
Sta. 61+50 Rt.
Sta. 33+50 Lt.
64+00 Lt.

Construct Approach
Sta. 63+50 Rt.

Stone Fill for Slope Protection, (Light Type) - Item 512
Rt.
65+40 - 65+90

Three Cable Guard Rail W/steel posts, Item 512
Sta. 51+26 - 51+76 Lt. 51+43.9 - 51+72.4 Rt.
Sta. 51+26 - 51+76 Rt. Lt.
Sta. 65+93 - 66+00 Rt.
+20.4



CONTROL OF THE FOLLOWING SECTIONS OF FORMER VT. RTE. 105 ARE HEREBY RELINQUISHED & RETURNED TO THE TOWN OF BERKSHIRE:

1. BEGINNING AT A POINT 30'± LT. OF STA. 51+25±, THENCE 0.12± MI. TO A POINT 33'± LT., STA. 57+80±.
2. BEGINNING AT A POINT 100'± RT. OF 63+46±, THENCE 0.8± MI. TO A POINT 95'± RT. OF STA. 103+00±.
3. BEGINNING AT A POINT 60'± LT. OF STA. 108+25±, THENCE 0.325± MI. TO A PT. 90'± LT. OF STA. 124+50
4. BEGINNING AT A POINT 140'± LT. STA. 138+15±, THENCE 0.3± MI. TO A PT., 60'± LT. OF STA. 154+00±

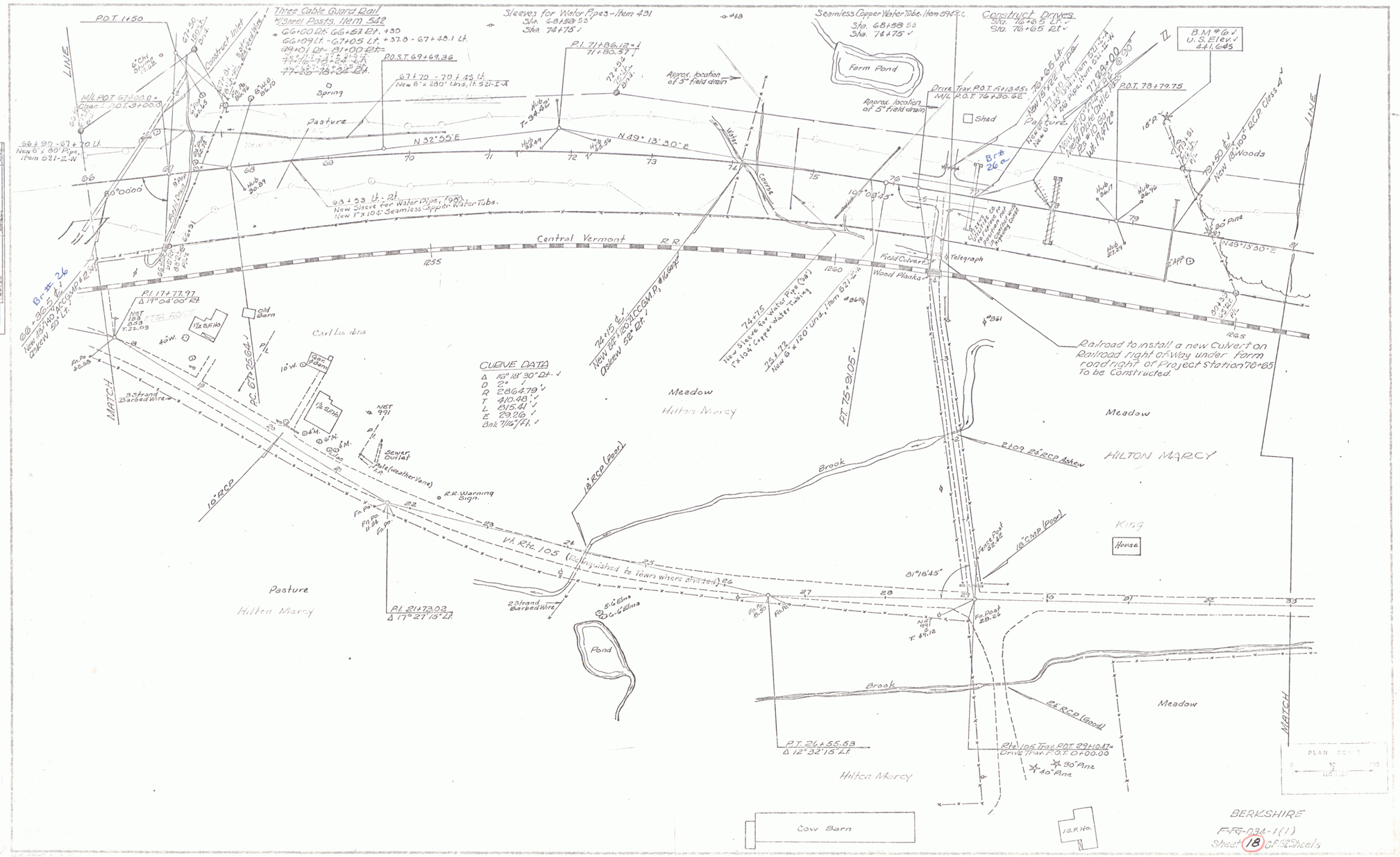
(See Sheets 18, 20, 22, 24, 26, & 28)

RECORDED IN LAND RECORDS OF THE TOWN OF BERKSHIRE OCTOBER 2, 1967.

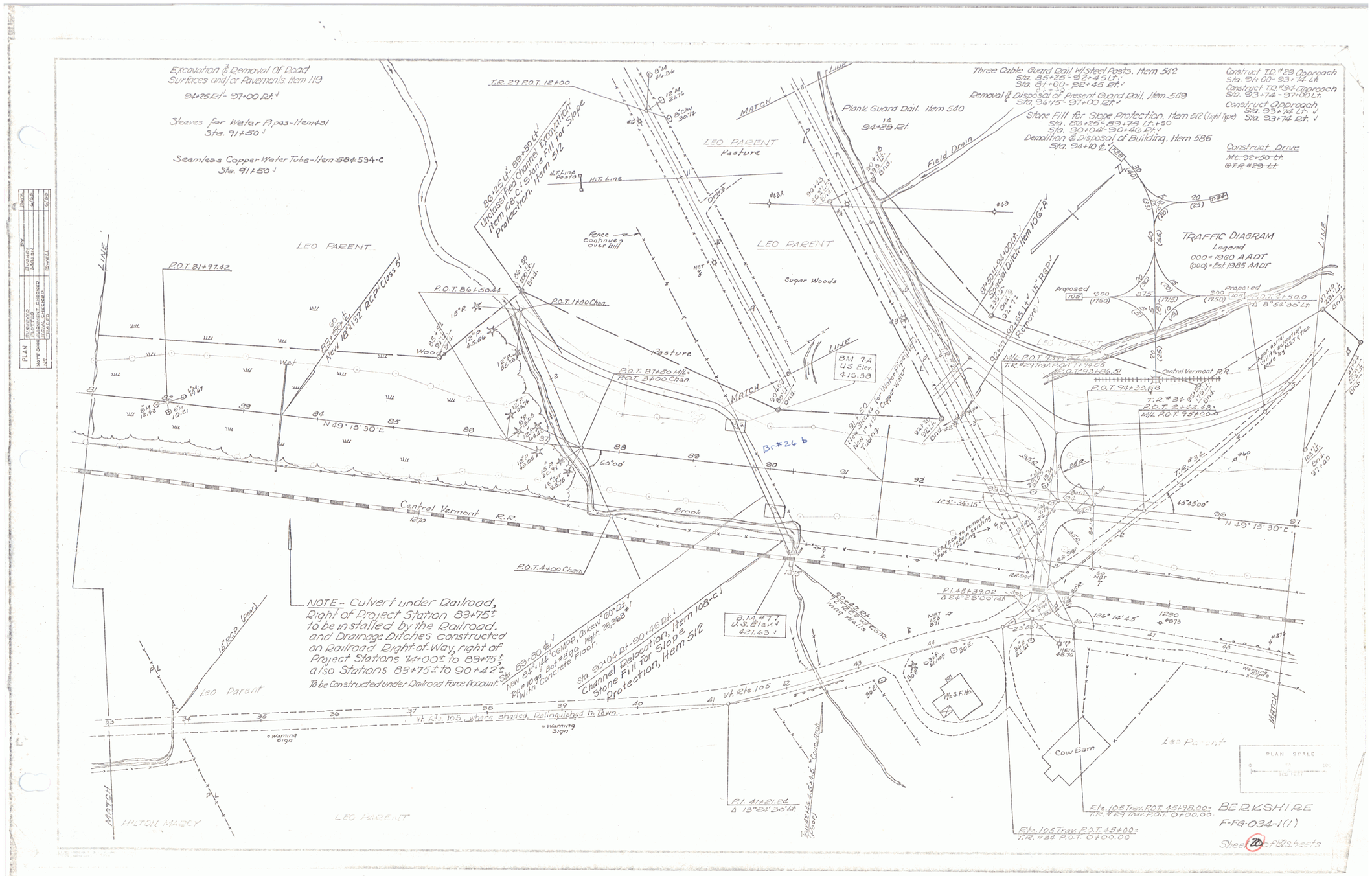
BERKSHIRE
F-FG-031-1(1)

Sheet 16 of 132 Sheets

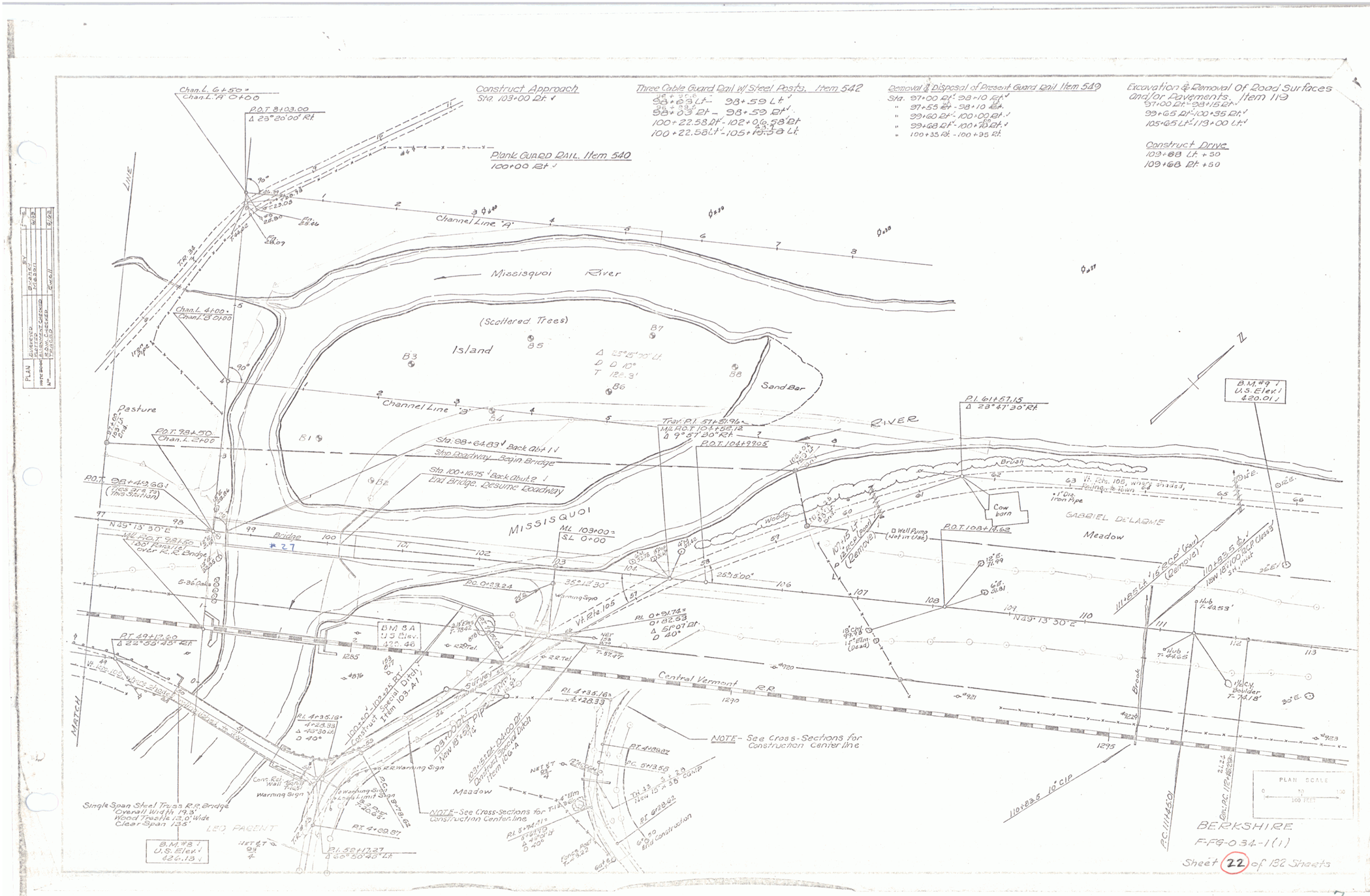
4


Three Cable Guard Rail w/Steel Posts, Item 542
Sleeves for Water Pipes - Item 431
Seamless Copper Water Tube - Item 594
Construct Drives
Farm Pond
Approx. location of 5" field drain
Shed
Pasture
Spring
Central Vermont R.R.
Field Culvert
Wood Planks
Telegraph
Railroad to install a new Culvert on Railroad right of Way under farm road right of Project Station 76+65 To be Constructed.
CURVE DATA
Meadow
Hilton Marcy
HILTON MARCY
King House
Brook
Pond
Cow Barn
Old Barn
Carl Lumbra
Vt. Rte. 105 (Relinquished to Town where shifted)
MATCH
BERKSHIRE
F-FG-031-1(1)
Sheet 18 of 52 Sheets

5


Excavation & Removal Of Road Surfaces and/or Pavements. Item 119
94+25 Lt.- 97+00 Rt.
Sleeves for Water Pipes-Item 431
Sta. 91+50
Seamless Copper Water Tube-Item 584.594-C
Sta. 91+50
86+25 Lt.- 89+50 Lt.
Unclassified Channel Excavation Item 128-C. Stone Fill for Slope Protection, Item 512
T.R. 29 P.O.T. 12+00
LEO PARENT
Pasture
Sugar Woods
Plank Guard Rail. Item 540
94+25 Rt.
Three Cable Guard Rail W/ Steel Posts. Item 542
Sta. 86+26 - 92+45 Lt.
Sta. 87+00 - 92+45 Rt.
Removal & Disposal of Present Guard Rail. Item 549
Sta. 94+75 - 97+00 Rt.
Stone Fill for Slope Protection. Item 512 (light type)
Sta. 86+65, 89+75 Lt. & 50
Sta. 90+04 - 90+46 Rt.
Demolition & Disposal of Building. Item 586
Sta. 94+10 Lt.
Construct T.R. #29 Approach
Sta. 94+00 - 93+74 Lt.
Construct T.R. #34 Approach
Sta. 93+74 - 97+00 Lt.
Construct Approach
Sta. 93+74 Lt.
Sta. 93+74 Rt.
Construct Drive
Mt. 92+50 Lt.
@ T.R. #29 Lt.
TRAFFIC DIAGRAM
Legend
000 = 1960 AADT
(000) = Est 1985 AADT
Proposed
Central Vermont R.R.
P.O.T. 81+97.42
P.O.T. 86+50.44
P.O.T. 1+40 Chan.
P.O.T. 87+50 M/L
P.O.T. 3+00 Chan.
P.O.T. 4+00 Chan.
P.O.T. 94+33.68
T.R. #34 P.O.T. 8+42.68
M/L P.O.T. 95+00.0
P.I. 45+39.02
Δ 24°28'00" Rt.
P.I. 41+21.24
Δ 13°28'30" Lt.
Brook
Barn
Cow Barn
1½ S.F.Ho.
Fence Continues over hill
Field Drain
Warning Sign
Rte. 105 Where shaded, Relinquished to town.
Rte. 105 Trav. P.O.T. 45+98.00 = T.R. #29 Trav. P.O.T. 0+00.00
Rte. 105 Trav. P.O.T. 45+00 = T.R. #34 P.O.T. 0+00.00
NOTE - Culvert under Railroad, Right of Project Station 83+75± to be installed by the Railroad. and Drainage Ditches constructed on Railroad Right-of-Way, right of Project Stations 74+00± to 83+75± also Stations 83+75± to 90+42± To be Constructed under Railroad Force Account.
Sta. 89+80 Lt. New 24"x14" CGMPA (skew 60° Lt.) Pp #1099 Bot. #6.92 Wght. 28,368# With Concrete Floor.
Sta. 90+04 Rt.-90+46 Rt. Channel Relocation, Item 108-C Stone Fill for Slope Protection, Item 512
B.M. #7 U.S. Elev. 421.63
B.M. 7A 43 Elev. 415.59
Br. #26 b
HILTON MARCY
LEO PARENT
PLAN SCALE
BERKSHIRE
F-FG-034-1(1)
Sheet 20 of 123 sheets

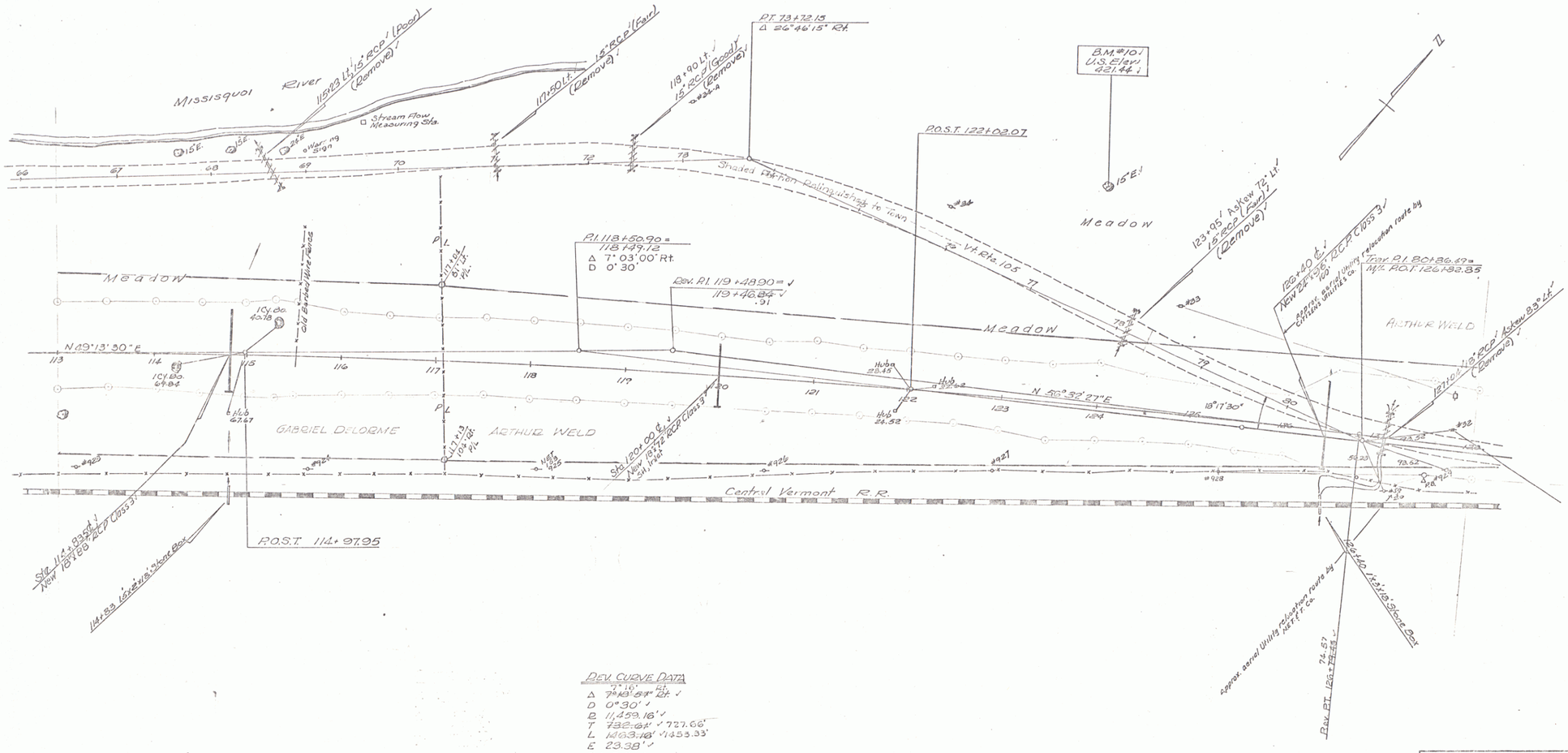
6


Construct Approach
Sta. 103+00 Rt.
Three Cable Guard Rail W/ Steel Posts, Item 542
Removal & Disposal of Present Guard Rail Item 549
Excavation & Removal Of Road Surfaces and/or Pavements, Item 119
Construct Drive
Plank Guard Rail, Item 540
Channel Line 'A'
Channel Line 'B'
Mississquoi River
(Scattered Trees)
Island
Sand Bar
Pasture
MISSISQUOI
RIVER
Meadow
Brush
Cow barn
GABRIEL DELARME
Central Vermont R.R.
Bridge #27
Single Span Steel Truss R.R. Bridge
Overall Width 19.3'
Wood Trestle 12.0' Wide
Clear Span 135'
LEO FAGENT
NOTE- See Cross-Sections for Construction Center line
BM 8 A
U.S. Elev.
420.46
B.M. #9
U.S. Elev.
420.01
B.M. #8
U.S. Elev.
420.13
PLAN SCALE
BERKSHIRE
F-FG-034-1(1)
Sheet 22 of 132 Sheets

7

Excavation & Removal Of Road Surfaces and/or Pavements. Item 119
113+00 Lt. - 125+45 Lt.

Construct Drive
121+00 Lt.



REV. CURVE DATA

Δ 7°03'00" Rt.
D 0°30'
R 11,459.16'
T 732.66' 727.66'
L 1403.18' 1455.33'
E 23.38'
Ent R.C.

PLAN SCALE 1" = 100 FEET

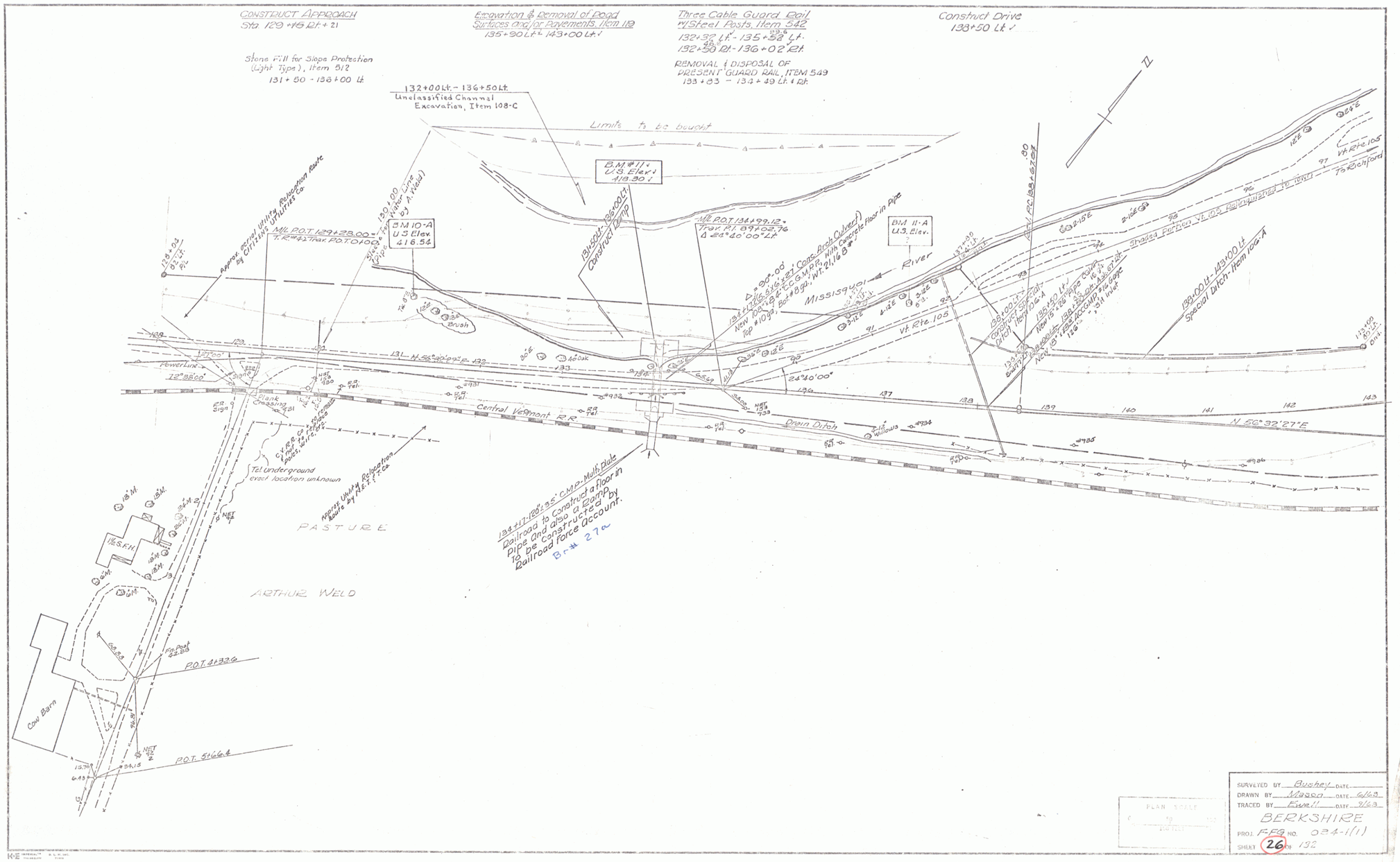
SURVEYED BY Buckley DATE
DRAWN BY Nelson DATE 4/63
TRACED BY Sturill DATE 2/63

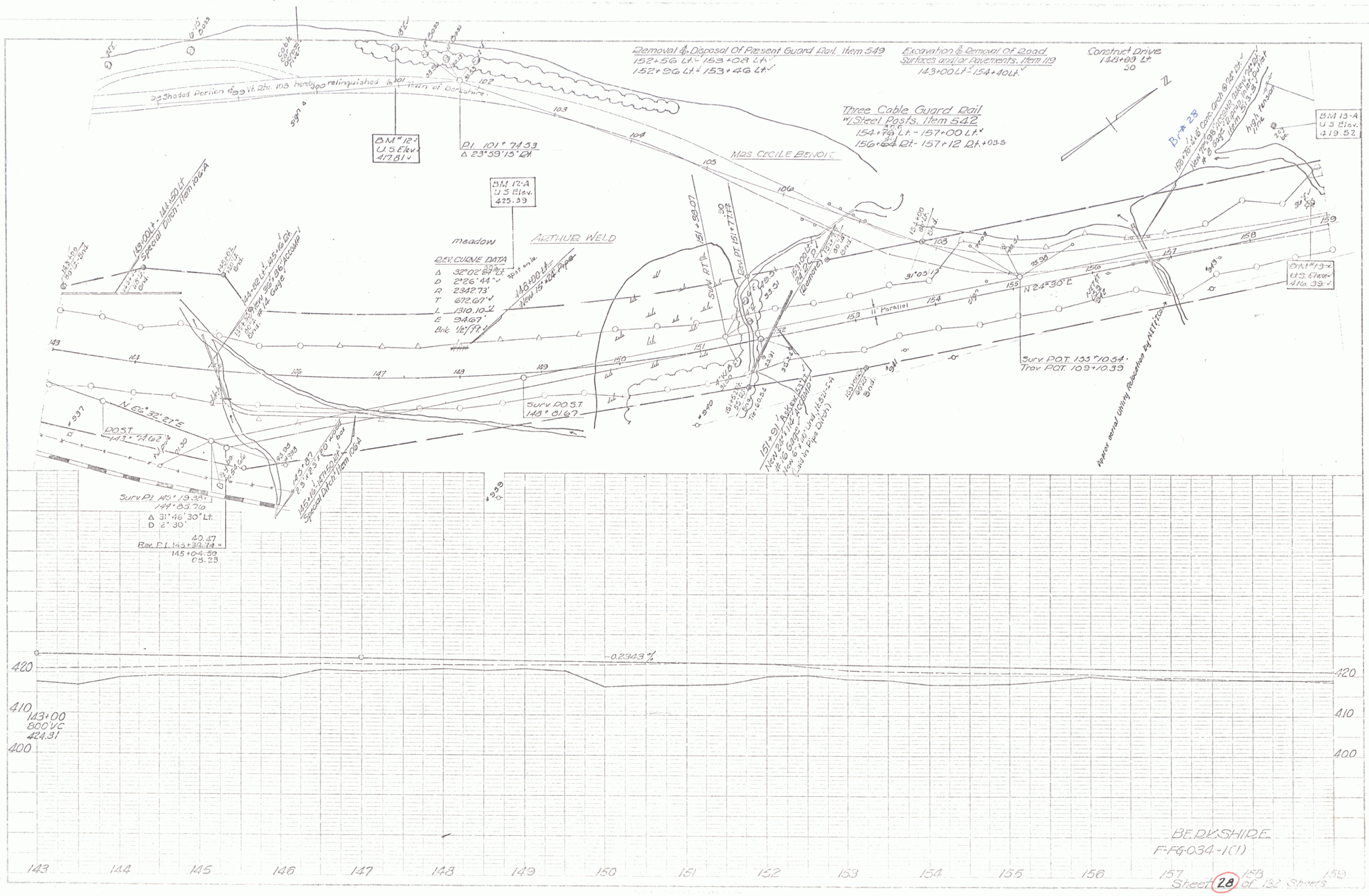
BERKSHIRE

PROJ. F-FG 10. 034-1111

SHEET 24 OF 132

8

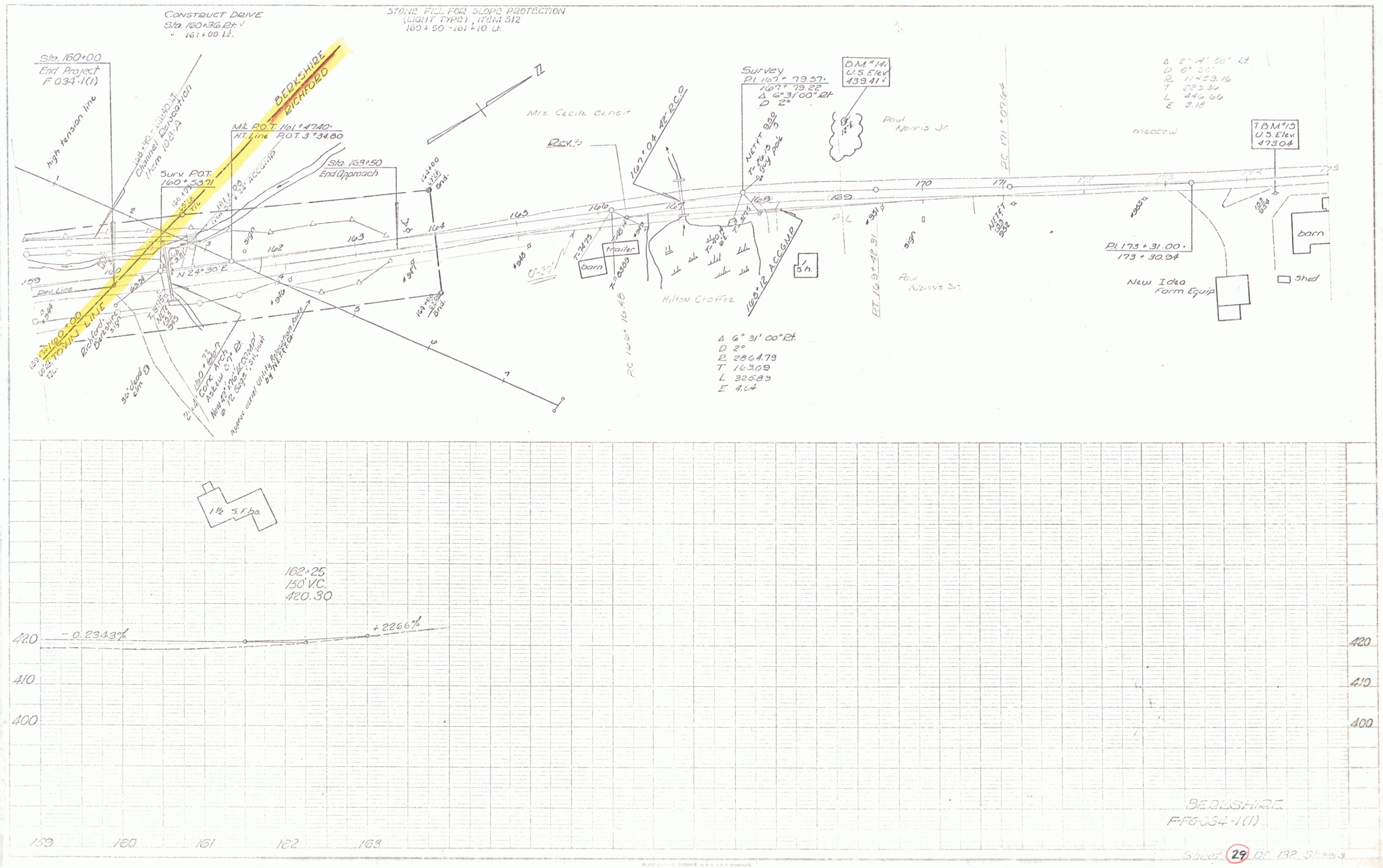

CONSTRUCT APPROACH
Sta. 129 +16 Rt. + 21
Stone Fill for Slope Protection (Light Type), Item 512
131 + 50 - 138 + 00 Lt.
Excavation & Removal of Road Surfaces and/or Pavements, Item 112
135 + 90 Lt. + 143 + 00 Lt.
Three Cable Guard Rail w/ Steel Posts, Item 542
132 + 32 Lt. - 135 + 53.6 Lt.
132 + 50 Rt. - 136 + 02.8 Rt.
REMOVAL & DISPOSAL OF PRESENT GUARD RAIL, ITEM 549
133 + 83 - 134 + 49 Lt. & Rt.
Construct Drive
138 + 50 Lt.
132 + 00 Lt. - 136 + 50 Lt.
Unclassified Channel Excavation, Item 108-C
Limits to be bought
B.M. #11
U.S. Elev.
418.30
B.M. 10-A
U.S. Elev.
416.54
B.M. 11-A
U.S. Elev.
Approx. gas Utility Relocation Route by Citizens Utilities Co.
M/L P.O.T. 129 + 28.00
T.R. #42 Trav. P.O.T. 0 + 00
Mississquoi River
Vt. Rte. 105
Shaded Portion Vt. 105 relocated to 1967
To Richford
Powerline
Central Vermont R.R.
Drain Ditch
N 56° 32' 27" E
Tel. underground exact location unknown
Approx. Utility Relocation Route by N.E.T.T. Co.
PASTURE
ARTHUR WELD
Cow Barn
P.O.T. 4+32.6
P.O.T. 5+66.4
Railroad to construct a floor in pipe and also a ramp to be constructed by Railroad force account.
Br. # 27a
SURVEYED BY Bushey DATE
DRAWN BY Mason DATE 6/63
TRACED BY Ewell DATE 8/63
BERKSHIRE
PROJ. F-FG NO. 034-1(1)
SHEET 26 OF 132



PLAN
Traced L. Clark 1963

PROFILE
Checked Collings 12-63

10


CONSTRUCT DRIVE
Sta. 160+36 Rt.
" 161+00 Lt.
STONE FILL FOR SLOPE PROTECTION
(LIGHT TYPE) ITEM 512
160+50 - 161+10 Lt.
Sta. 160+00
End Project
F 034-1(1)
high tension line
BERKSHIRE
BICHFORD
Mrs. Cecile Benoit
Survey
PI 167+79.57
167+79.22
Δ 6°31'00" Rt.
D 2°
B.M. #14
U.S. Elev.
439.41
Paul Norris Jr.
meadow
T.B.M. #13
U.S. Elev.
473.04
barn
Shed
New Idea
Farm Equip
Hilton Cloffer
Δ 2°14'50" Lt.
D 0°30'
R 11459.16
T 223.32
L 446.66
E 2.18
PI 173+31.00
173+30.94
Δ 6°31'00" Rt.
D 2°
R 2864.79
T 163.09
L 326.83
E 4.64
Sta. 163+50
End Approach
Surv. POT
160+38.71
N.H. POT 161+47.40
H.T. Line POT 3+34.80
TOWN LINE
Richford
Berkshire
Dev. Line
N 24°30' E
trailer
barn
s.h.
1½ S.F. bo.
162+25
150' V.C.
420.30
-0.2343%
+2266%
420
410
400
159
160
161
162
163
BERKSHIRE
F-FG-034-1(1)
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see #30 of 90 F 134-L