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FAIRLEE BRADFORD 191-2(25)  
 RECORD PLANS PAVEMENT AREA  
 MATERIALS 127,690 S.Y.

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS  
 TOWNS OF FAIRLEE & BRADFORD  
 COUNTY OF ORANGE  
 INTERSTATE ROUTE 91

PROPOSED IMPROVEMENT  
 SUBBASE OF SAND-APPLETON FIT-BRADFORD, VT.  
 SUBBASE OF DENSE GRADED CRUSHED ROCK-EDMONDS QUARRY-FAIRLEE, VT.

PLANT MIXED BASE COURSE & BITUMINOUS CONCRETE PAVEMENT-L.M. PIKE PLANT-W. LEBANON, N.H.  
 ASPHALT-MOBIL OIL CO.-ALBANY, N.Y.  
 STONE GRITS-VERMONT MARBLE CO.-SHELDON, VT.  
 CONCRETE CLASS B-HILLS READY MIX-THEFORD, VT.  
 REINFORCING STEEL-K. ROSS BUILDING SUPPLY CENTER, INC.-LEBANON, N.H.  
 METAL CULVERT PIPE-NORTHEASTERN CULVERT CORP.-WESTMINSTER, VT.  
 THREE CABLE GUARD RAIL, TIMBER CURB, SIGNS & EROSION CONTROL ITEMS-GRISWOLD FENCE CO.-WILLISTON, VT.  
 INSULATION BOARD-DOW CHEMICAL CO.-CHESTNUT HILL, MA.

INTERSTATE PROJECT  
 BEGINNING AT A POINT APPROXIMATELY 3.798 MILES SOUTHERLY OF THE FAIRLEE-BRADFORD TOWN LINE AND EXTENDING NORTHERLY 5.106 MILES  
 LENGTH OF ROADWAY 26,937.56 FT = 5.102 MILES  
 LENGTH OF BRIDGES 24,500 FT = 0.004 MILES  
 LENGTH OF PROJECT 25,918.84 FT = 5.196 MILES

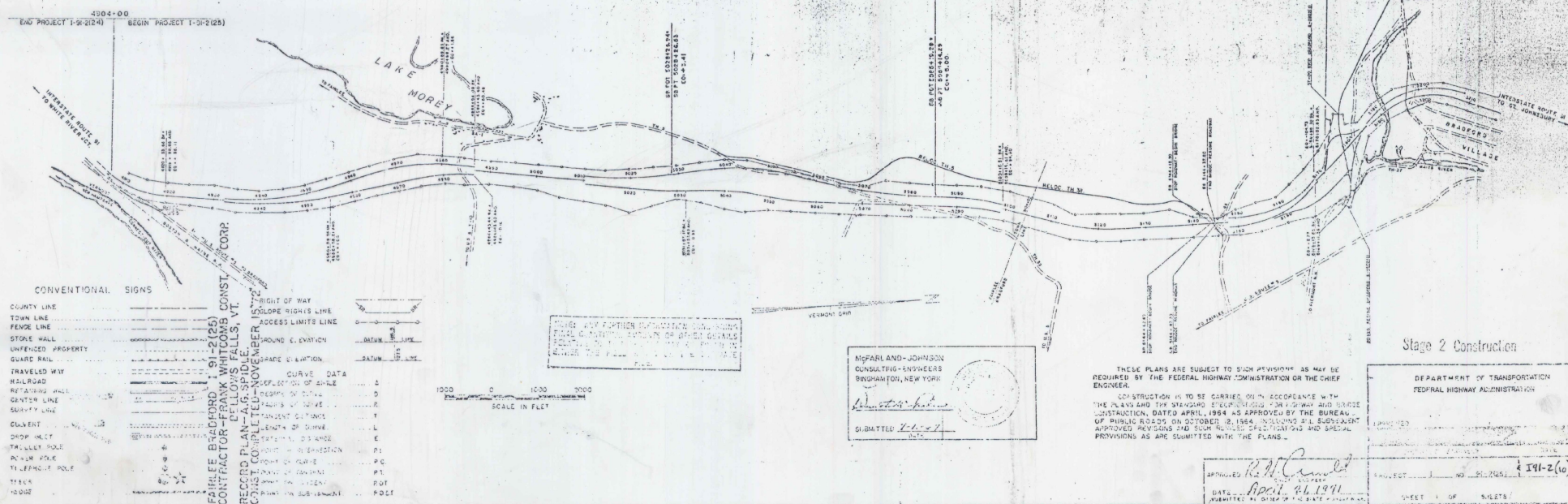
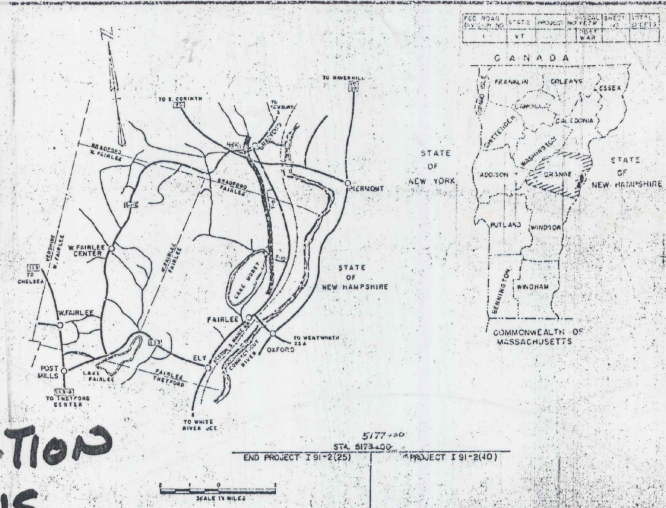
CONTRACTOR-FRANK W. WHITCOMB CONST. CORP. BELLOWS FALLS, VT.  
 RESIDENT ENGINEER-A.B. DELANO.  
 ASSIST. RES. ENG-CARL R. QUENNEL  
 INSPECTORS-S.T. MORRIS, D. MAHONEY, G. COLBY, J. BLODGETT, D. CLOUGH, T. WHITE, C. ANDERSON, G. DUBOIS, J. TALBOT, R. MASON & T. HOWARD.  
 RECORD PLANS-A.G. SPIDLE.

TRAFFIC DATA

1970	ADT	2020
1990	ADT	2285
1990	DHV	860
	D	55%
	T	7%
	V	60 MPH

CONTRACT DATED-DECEMBER 14, 1971.  
 STARTED-APRIL 10, 1972.  
 COMPLETED-NOVEMBER 15, 1972.  
 ACCEPTED-NOVEMBER 15, 1972.

CONSTRUCTION PLANS



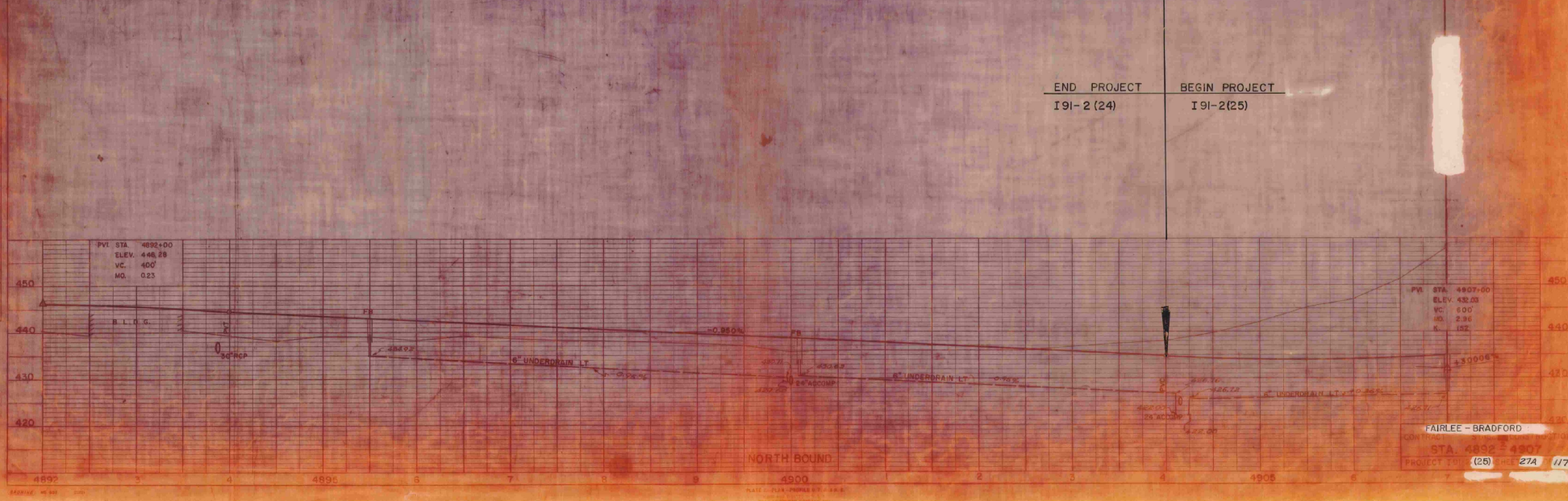
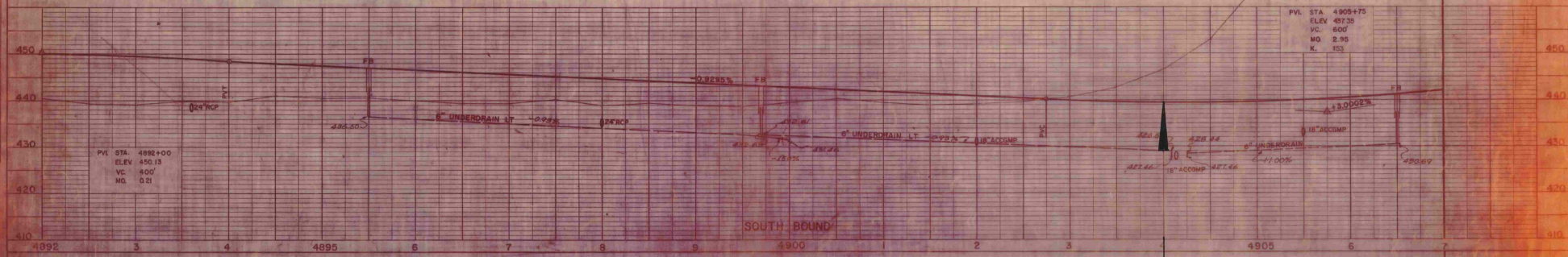
McFarland-Johnson  
 CONSULTING ENGINEERS  
 BINGHAMTON, NEW YORK  
 SUBMITTED 7/21/72

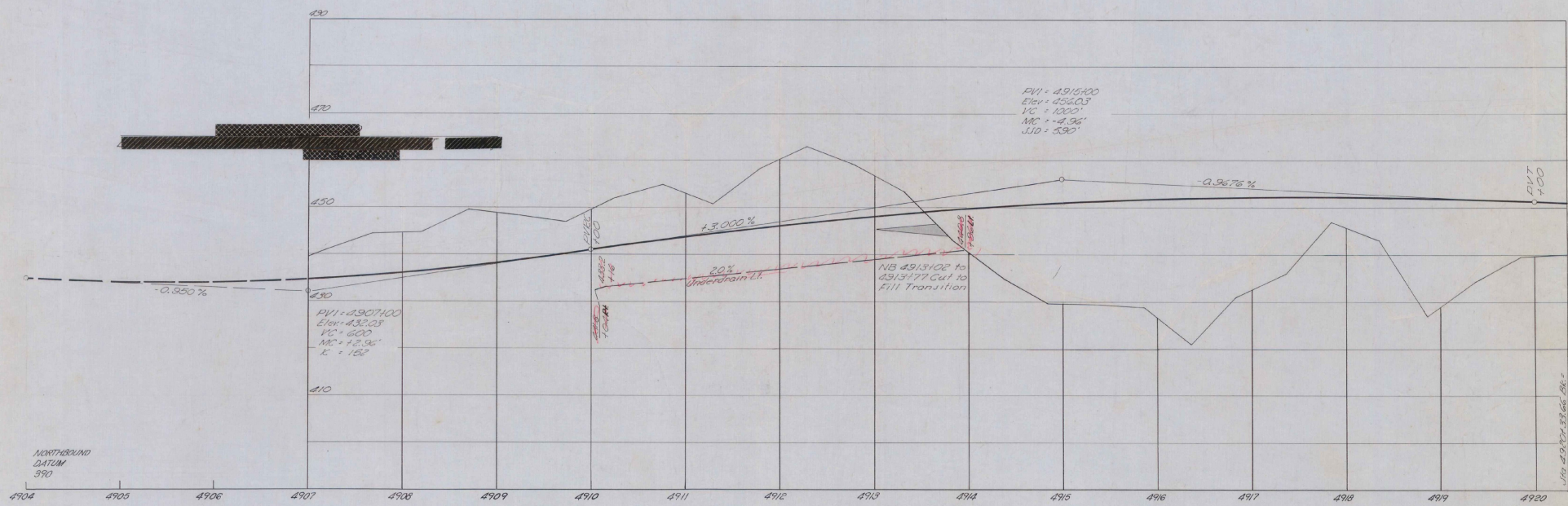
THESE PLANS ARE SUBJECT TO SUCH PROVISIONS AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER.  
 CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, DATED APRIL, 1964 AS APPROVED BY THE BUREAU OF PUBLIC ROADS ON OCTOBER 2, 1964, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH FURTHER SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION  
 PROJECT NO. VT-2(25) 191-2(10)  
 SHEET 1 OF 5 SHEETS



STAGE 3 FINISHED GRADES SHOWN, STAGE 2 FINISHED GRADES 0.1042 FT. (1.25 IN) BELOW  
 STAGE 1 SUBGRADE ELEVATION 2.67 FEET (2 FEET - 6 INCHES BELOW) STAGE 3 FINISHED GRADES.





PVI - 4915+00  
 Elev - 452.03  
 VC - 1000'  
 MC - -4.96'  
 JID - 530'

PVI - 4907+00  
 Elev - 432.03  
 VC - 600'  
 MC - +2.96'  
 L - +100'

NB 4913+02 to  
 SB 13+77 Cut to  
 Fill Transition

NORTHRoad  
 DATUM  
 390

Stage 3 Finished Grade Shown, Stage 2 Finished,  
 Grades 0.042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2'-8") Below  
 Stage 3 Finished Grade

4904 4905 4906 4907 4908 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918 4919 4920  
 410 430 450 470 490

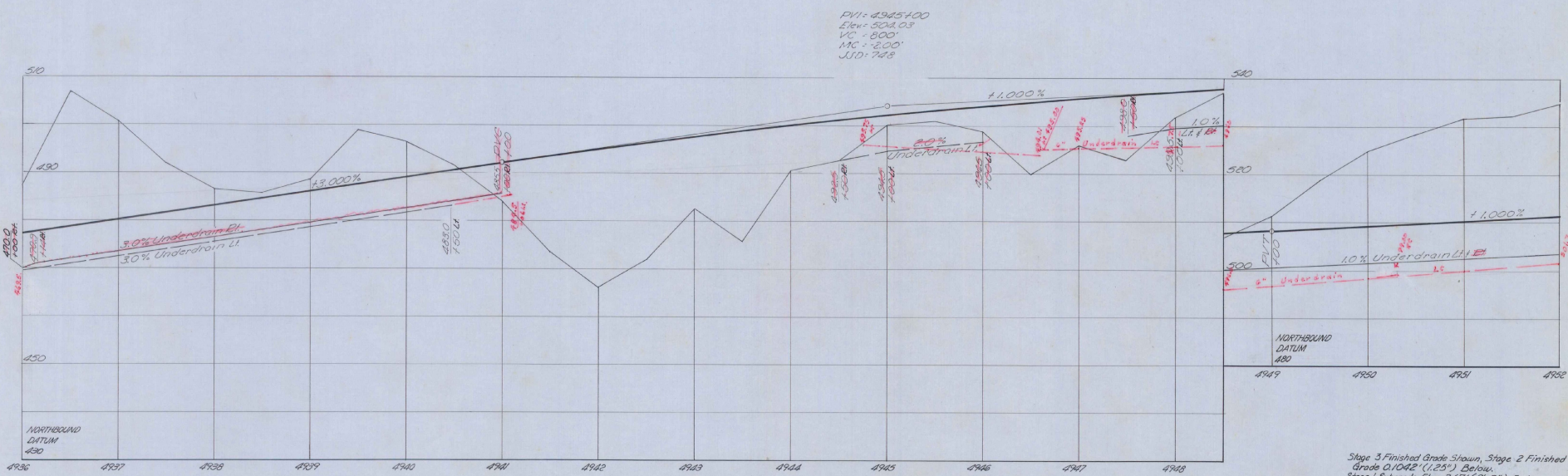
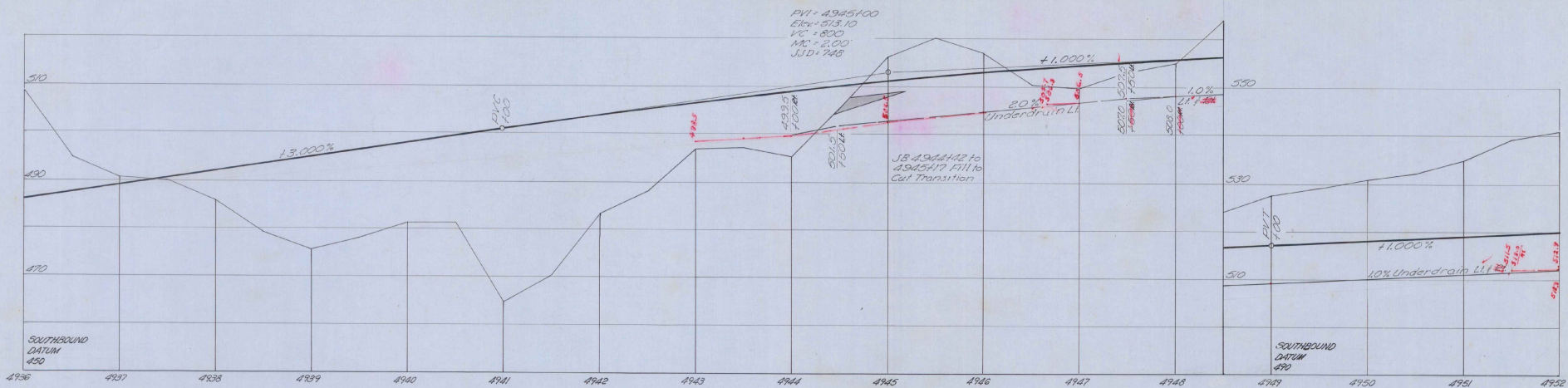
Stage 2 Construction

PROFILE SCALE  
 HORIZ 1" = 40'  
 VERT 1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: J. S.	CHECKED BY: S. E. W.
PROJECT NO: 1-91-2(10)	DATE: 8-1-87
SHEET 42 OF 868	





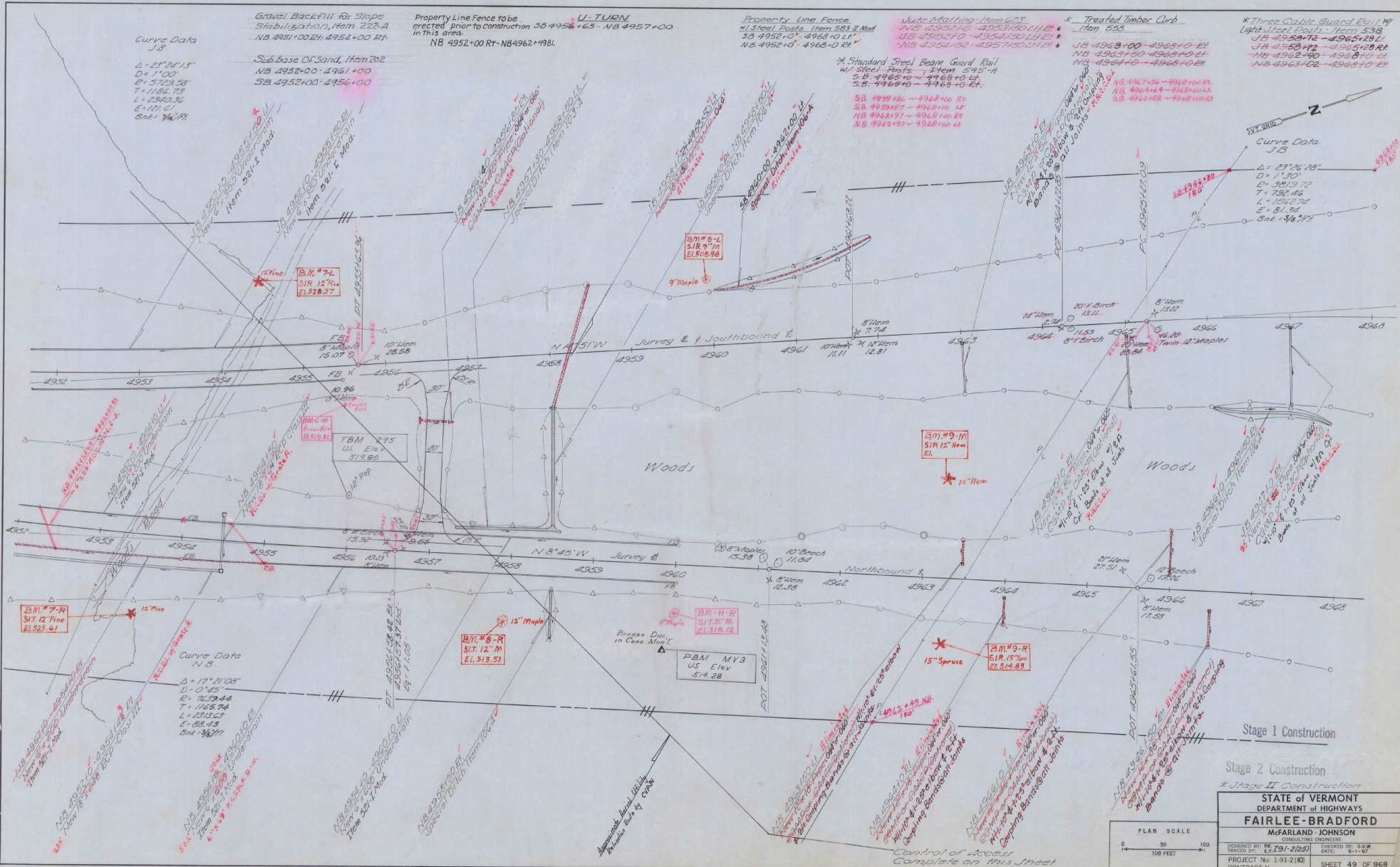


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below, Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE	50
HORIZ. FEET	10
VERT. FEET	10

STATE of VERMONT DEPARTMENT of HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: E.S. 191-215	CHECKED BY: B.E.K.
DRAWN BY: E.S. 191-215	DATE: 6-1-87
PROJECT No: 1-91-21(10)	SHEET 48 OF 868
CONTRACT No:	



Curve Data  
J.B  
 $\Delta = 23^\circ 28' 15"$   
 $D = 1100'$   
 $E = 5729.58'$   
 $T = 1196.73'$   
 $L = 2390.36'$   
 $E = 101.65'$   
Bk. = 3/4" P

Gravel Backfill for Slope Stabilization, Item 222-A  
NB 4951+00 RT - 4954+00 RT  
NB 4952+00 RT - NB 4962+198L  
Sub-base of Sand, Item 202  
NB 4952+00 - 4961+00  
SB 4952+00 - 4956+00

Property Line Fence to be erected prior to construction in this area.  
NB 4952+00 RT - NB 4962+198L  
U-TURN  
NB 4952+63 - NB 4957+00

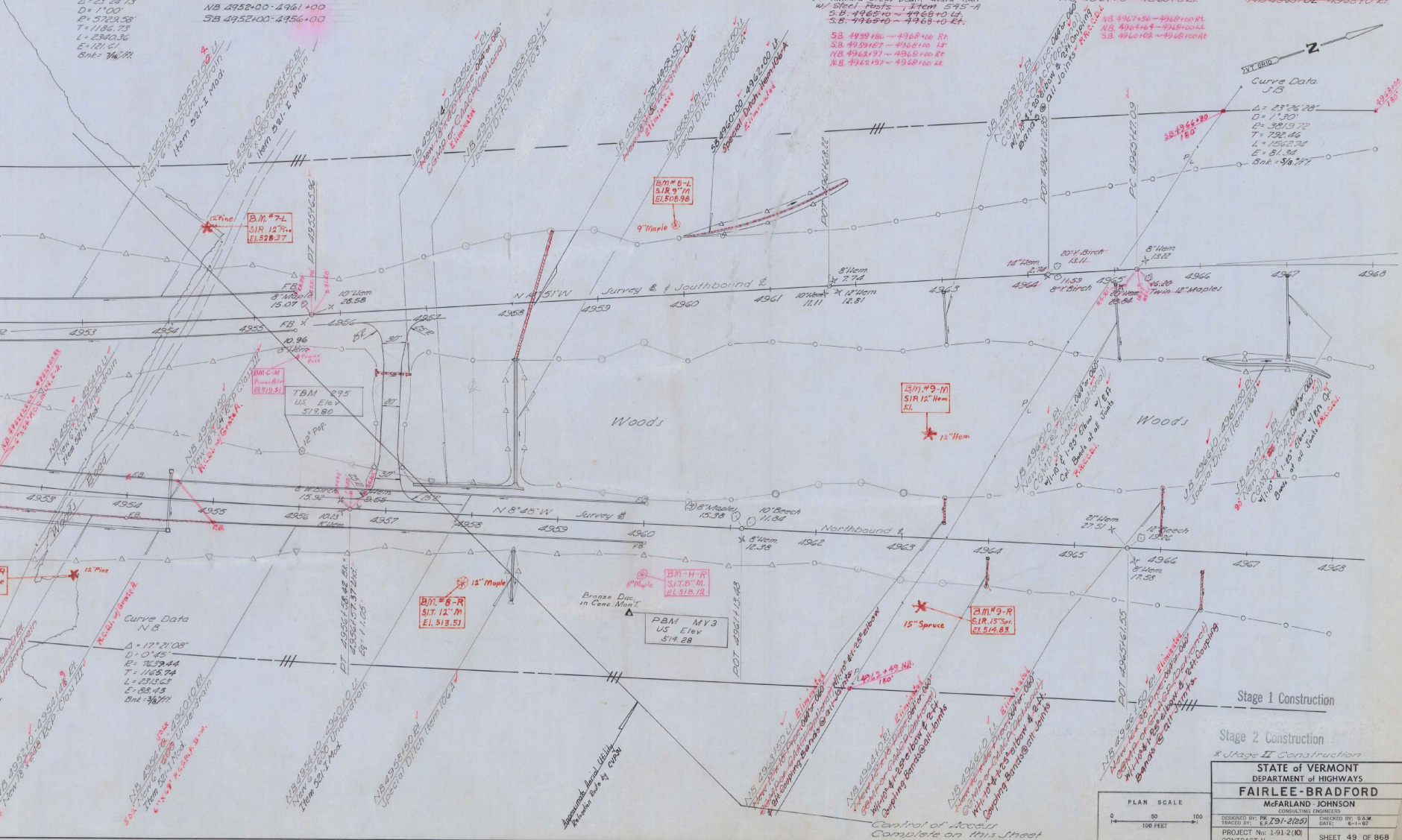
Property Line Fence w/ Steel Posts Item 223.1 Mod  
SB 4952+00 - 4968+00 RT  
NB 4952+00 - 4968+00 RT

Welded Machine Item 621  
NB 4952+10 - 4957+00 LH RT  
NB 4952+10 - 4957+00 LH RT  
NB 4952+10 - 4957+00 LH RT

Treated Timber Curb Item 523  
NB 4963+00 - 4966+00 RT  
NB 4963+00 - 4966+00 RT  
NB 4963+00 - 4966+00 RT

Three Cable Guard Rail w/ Light Wood Posts Item 538  
NB 4952+10 - 4965+20 RT  
NB 4952+10 - 4965+20 RT  
NB 4952+10 - 4965+20 RT

Standard Steel Beam Guard Rail w/ Steel Posts Item 545-A  
SB 4959+00 - 4964+00 RT  
SB 4959+00 - 4964+00 RT  
NB 4962+197 - 4965+100 RT  
NB 4962+197 - 4965+100 RT



Stage 1 Construction  
Stage 2 Construction  
\* Stage II Construction

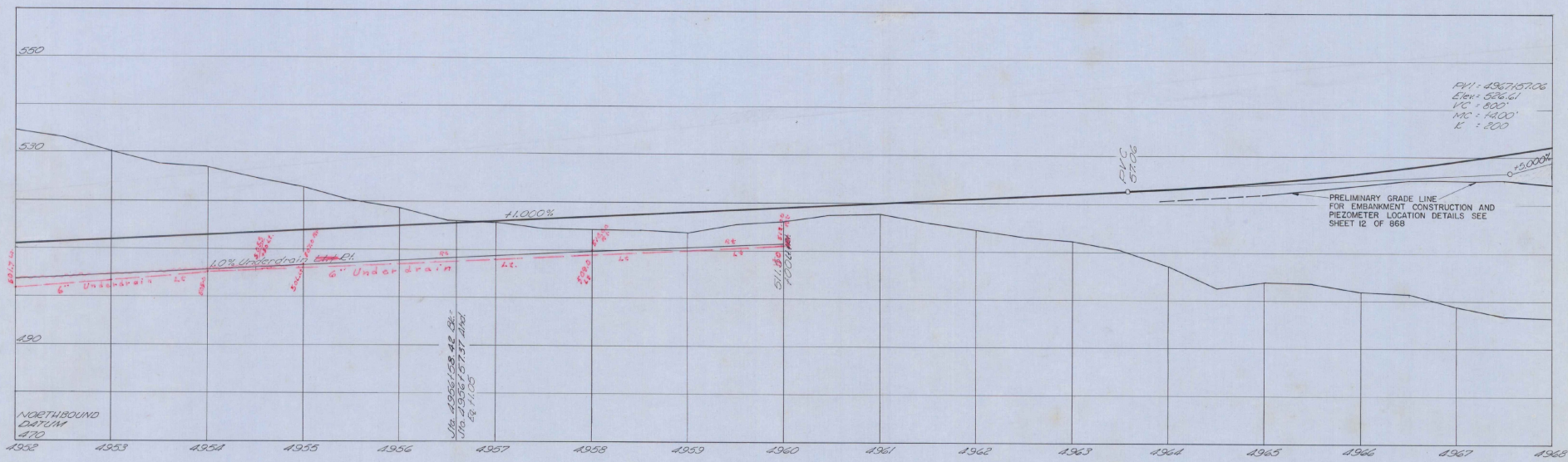
STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEAD-BRADFORD**  
McFARLAND-JOHNSON  
CONSULTING ENGINEERS

DESIGNED BY: P.J. 191-2189  
CHECKED BY: S.A.M.  
TRACED BY: E.T. 191-2189  
DATE: 6-1-67

PROJECT No: 1-91-2(K)  
CONTRACT No: SHEET 49 OF 868

PLAN SCALE  
0 50 100  
100 FEET

Sheet 34 of 117 Sheets



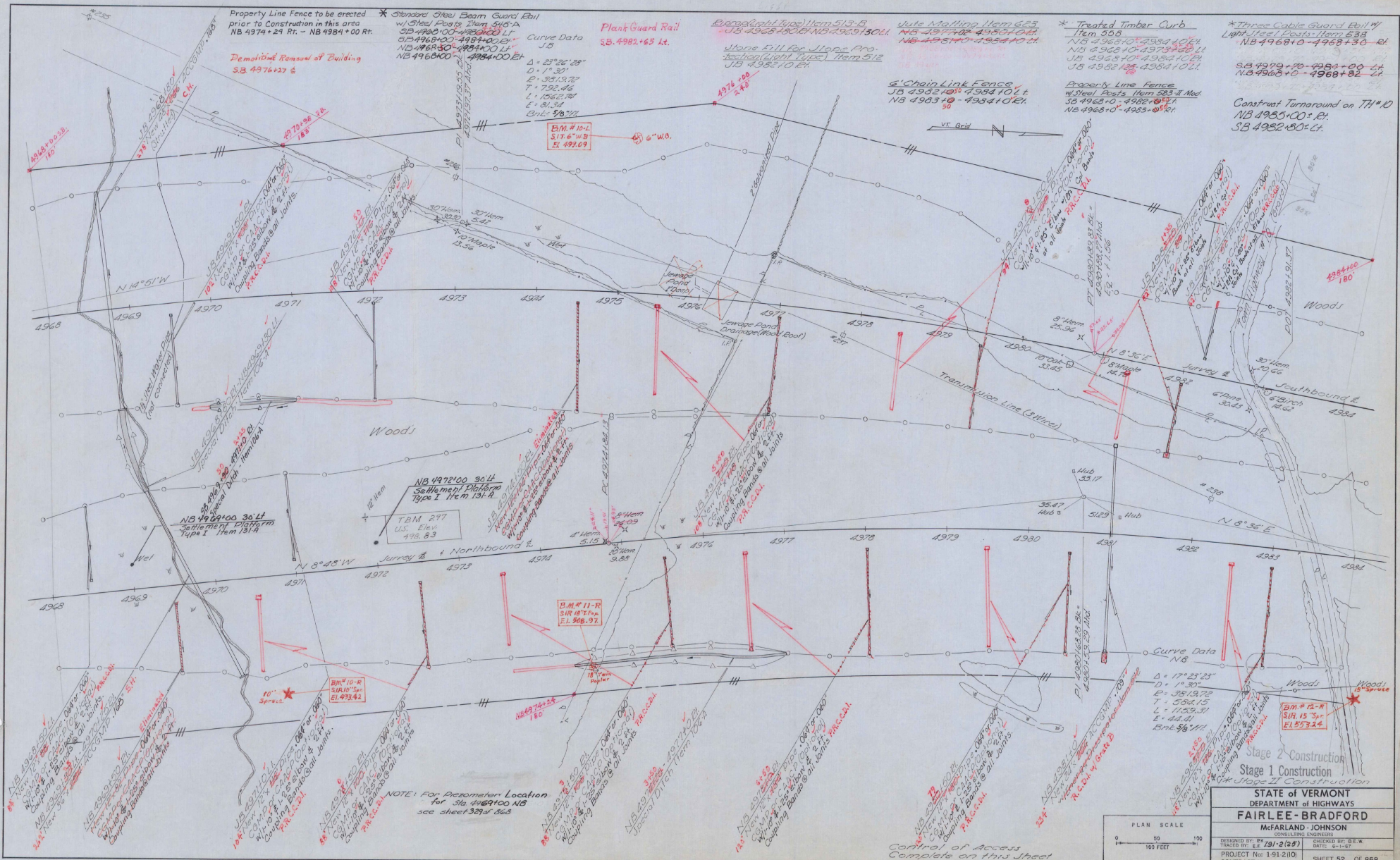
Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.29") Below. Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE	90
HORIZ. SCALE	1" = 100'
VERT. SCALE	1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLE E-BRADFORD CONSULTING ENGINEER	
DESIGNED BY: P.K. 1-91-2(2)	CHECKED BY: D.E.W.
PROJECT No: 191-2(10)	DATE: 4-1-67
CONTRACT No:	SHEET 50 OF 668





Property Line Fence to be erected prior to Construction in this area NB 4974+21 Rt. - NB 4984+00 Rt.

Demolition Removal of Building SB 4976+37 6

\* Standard Steel Beam Guard Rail w/ Steel Posts Item 515-A  
 SB 4968+00 - 4969+00 Lt.  
 SB 4969+00 - 4974+00 Lt.  
 NB 4968+00 - 4984+00 Lt.  
 NB 4968+00 - 4984+00 Lt.

Plank Guard Rail SB 4982+65 Lt.

Bored (Light Type) Item 513-B  
 SB 4925+80 Lt. NB 4925+30 Lt.  
 Stone Fill for Stone Protection (Light Type) Item 512  
 SB 4925+70 Lt.

Wire Matting Item 623  
 NB 4974+00 - 4984+00 Rt.  
 NB 4985+00 - 4984+00 Lt.

\* Treated Timber Curb Item 508  
 NB 4968+00 - 4984+00 Rt.  
 NB 4968+00 - 4984+00 Lt.  
 NB 4982+10 - 4984+10 Rt.  
 NB 4982+10 - 4984+10 Lt.

\* Three Cable Guard Rail w/ Light Steel Posts Item 538  
 NB 4968+00 - 4968+30 - Rt.  
 NB 4968+00 - 4968+30 - Lt.

Construct Turnaround on TH 10  
 NB 4985+00 = Rt.  
 SB 4982+80 = Lt.

Curve Data  
 Δ = 23°26'28"  
 D = 17'30"  
 E = 357.92'  
 T = 732.46'  
 L = 1562.74'  
 E = 81.34'  
 Bnk = 9/8.7%

Chain Link Fence  
 NB 4982+10 - 4984+10 Lt.  
 NB 4983+10 - 4984+10 Rt.

Property Line Fence  
 w/ Steel Posts Item 583-A Mod.  
 SB 4968+00 - 4982+00 Lt.  
 NB 4968+00 - 4985+00 Rt.

NB 4972+00 30 Lt Settlement Platform Type I Item 131-A  
 TBM 297  
 U.S. Elev. 495.83

B.M. # 11-R  
 S.I.R. 18" x 18" x 18"  
 E.L. 906.97

B.M. # 10-R  
 S.I.R. 10" x 10" x 10"  
 E.L. 493.44

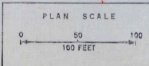
B.M. # 12-R  
 S.I.R. 15" x 15" x 15"  
 E.L. 573.24

NOTE: For Piezometer Location for Sta. 4969+00 NB see sheet 381 of 363

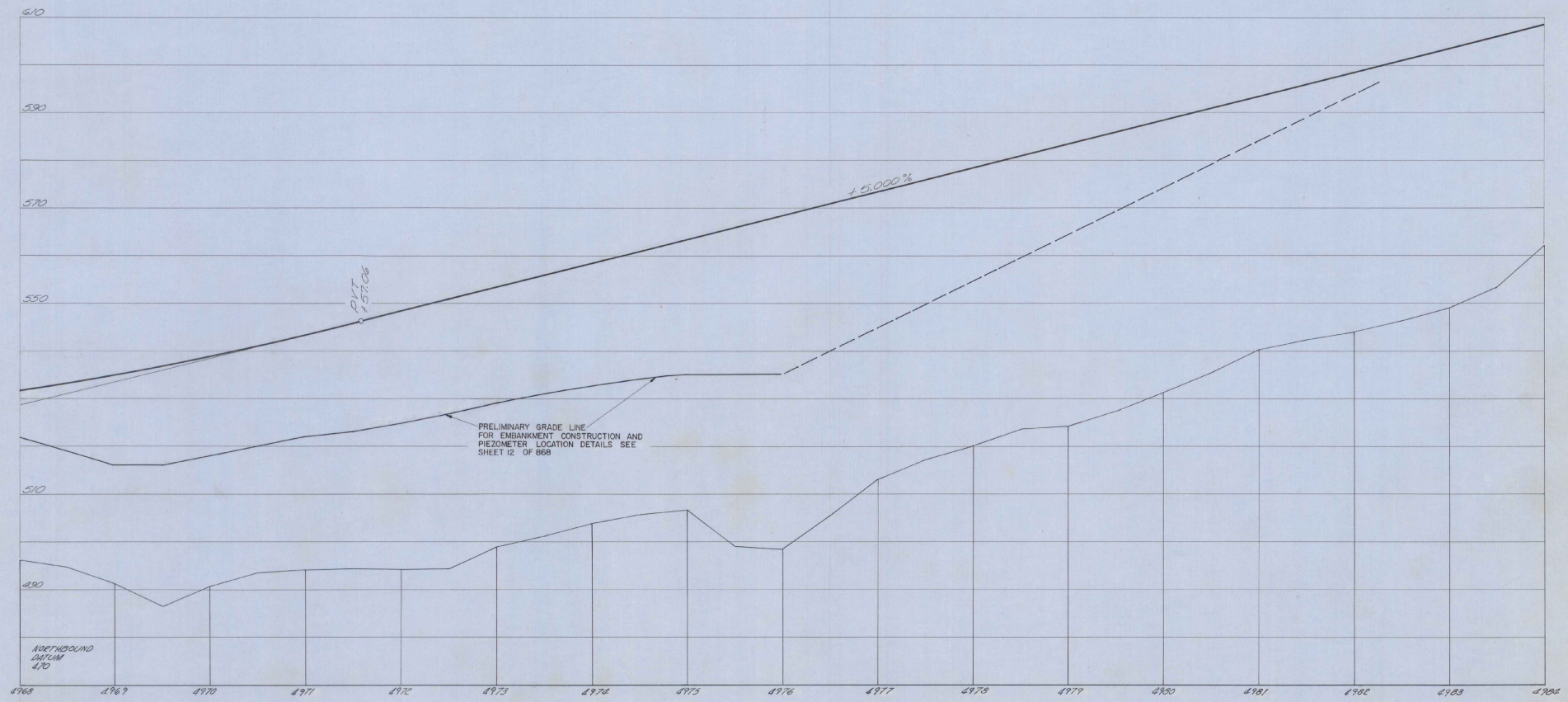
Stage 2 Construction  
 Stage 1 Construction  
 Stage 2 Construction

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CIVIL ENGINEERS

DESIGNED BY: R. J. (2/27) CHECKED BY: G.E.K.  
 TRACED BY: G.E.K. DATE: 6-1-67  
 PROJECT No: 191-210 CONTRACT No: SHEET 52 OF 868



Control of Access Complete on this Sheet

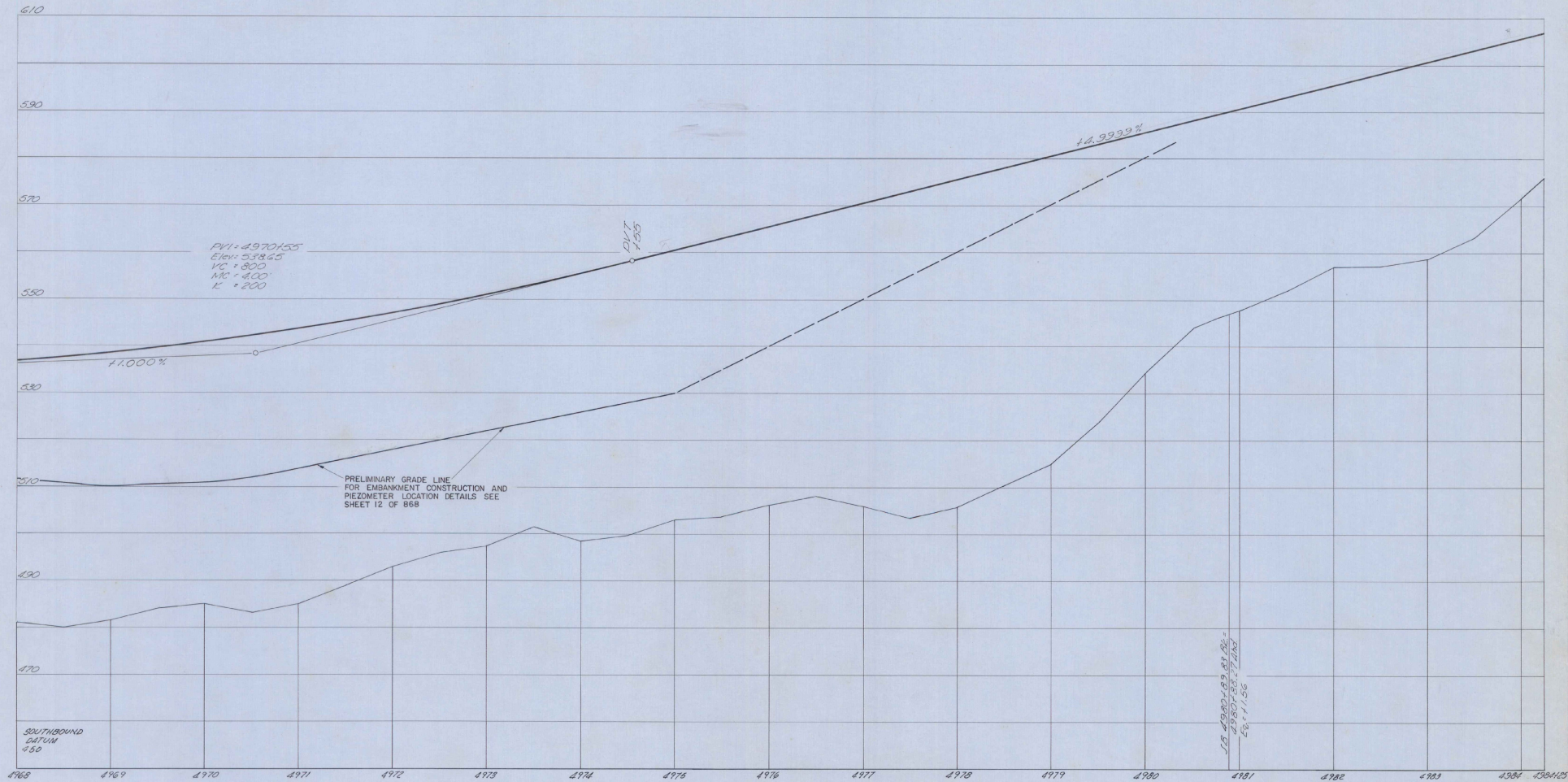


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below.  
 Stage 1 Subgrade Elev 2.67' (2'-3") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE  
 50  
 HORIZ. FEET  
 10  
 VERT. FEET

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: R. K. JOHNSON	CHECKED BY: D. E. W.
PROJECT No: 191 2(10)	DATE: 6-1-57
CONTRACT No:	SHEET 53 OF 868

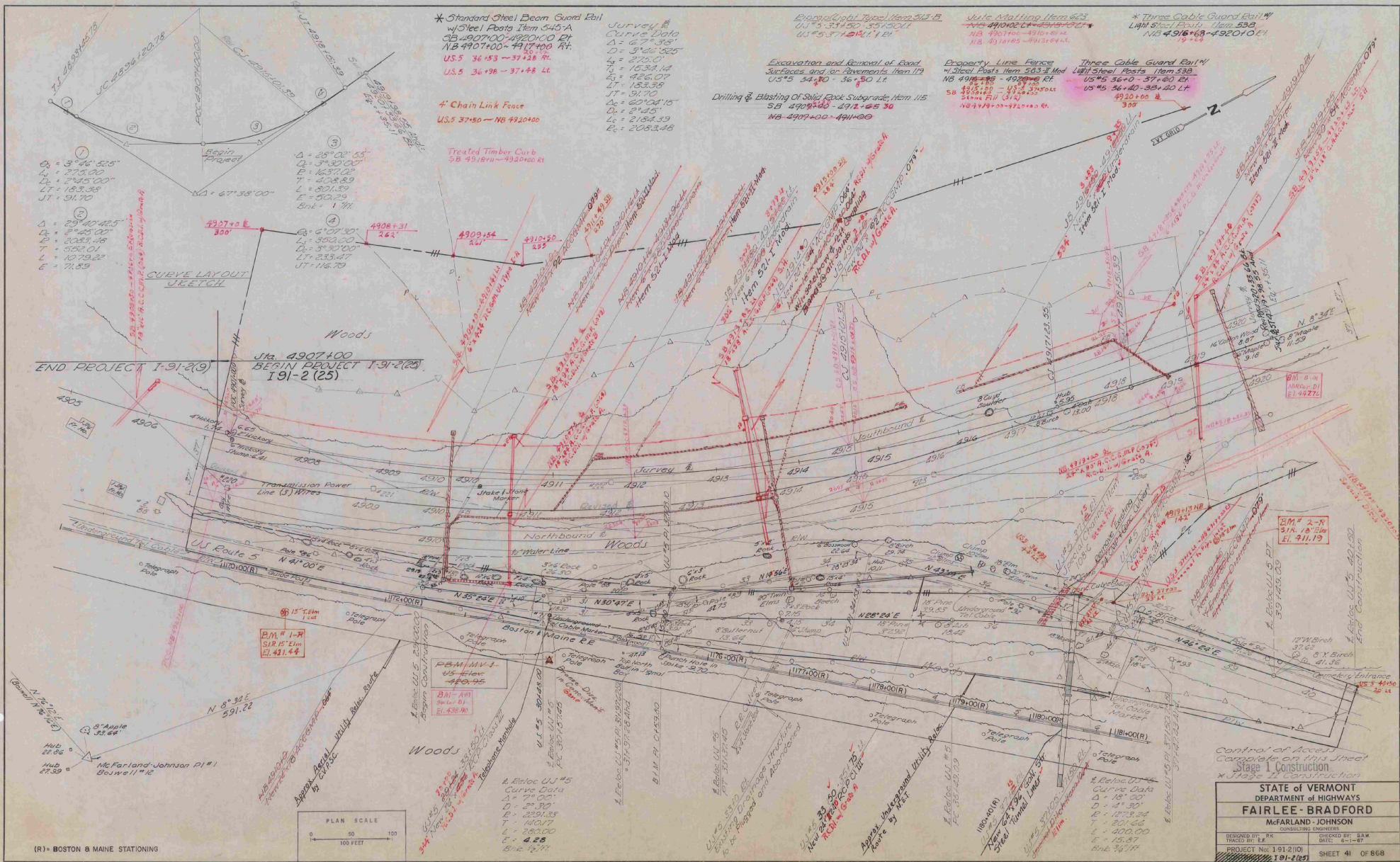


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042 (1.25%) Below Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE HORIZ. 50 FEET VERT. 10 FEET	STATE OF VERMONT DEPARTMENT OF HIGHWAYS <b>FAIRLEE-BRADFORD</b> McFARLAND-JOHNSON CONSULTING ENGINEERS
	DESIGNED BY: P.K. 191-2(10)    CHECKED BY: D.F.W. DRAWN BY: P.E.    DATE: 8-1-87 PROJECT No: 1-91-2(10)    SHEET 54 OF 868 CONTRACT No:





\* Standard Steel Beam Guard Rail  
w/ Steel Posts Item 545-A  
CB 4907+00-4920+00 ET  
NB 4907+00-4917+00 RT  
US 5 36+93 - 37+48 LT  
US 5 36+98 - 37+48 LT

\* Chain Link Fence  
US 5 37+50 - NB 4920+00

Treated Timber Curb  
SB 4918+00 - 4920+00 RT

Curve Data  
Δ = 67° 38' 00"  
D = 3746.525'  
L = 275.89'  
E = 1637.23'  
T = 402.89'  
L = 801.39'  
LT = 153.38'  
JT = 91.70'  
Lc = 607.115'  
Dc = 2145'  
Lc = 2184.33'  
E = 2083.48'

Excavation and Removal of Road Surfaces and/or Pavements Item 119  
US 5 34+80 - 36+50 LT

Drilling & Blasting of Solid Rock Subgrade, Item 115  
SB 4908+00 - 4912+05 30  
NB 4907+00 - 4911+00

Property Line Fence  
w/ Steel Posts Item 563-B Mod  
NB 4918+00 - 4920+00 LT  
US 5 36+40 - 38+40 LT  
US 5 36+40 - 38+40 LT  
US 5 36+40 - 38+40 LT

\* Three Cable Guard Rail w/ Light Steel Posts Item 539  
NB 4916+00 - 4920+00 LT

Δ = 3° 26' 52"  
D = 275.89'  
L = 275.89'  
E = 1637.23'  
T = 402.89'  
L = 801.39'  
LT = 153.38'  
JT = 91.70'

Δ = 28° 08' 53"  
D = 3746.525'  
L = 275.89'  
E = 1637.23'  
T = 402.89'  
L = 801.39'  
LT = 153.38'  
JT = 91.70'

CURVE LAYOUT SECTION

END PROJECT 1-91-2(9)  
Sta. 4907+00  
BEGIN PROJECT 1-91-2(25)  
1-91-2(25)

B.M. # 1-R  
S.I.R. 15' Elm  
E.L. 431.44

B.M. # 1  
US Electric  
E.L. 429.95

B.M. # 1  
US Electric  
E.L. 436.90

B.M. # 1  
US Electric  
E.L. 436.90

B.M. # 1  
US Electric  
E.L. 436.90

B.M. # 1  
US Electric  
E.L. 436.90

B.M. # 1  
US Electric  
E.L. 436.90



(R) - BOSTON & MAINE STATIONING

Control of Access  
complete on this sheet  
Stage 1 Construction  
\* Stage 2 Construction

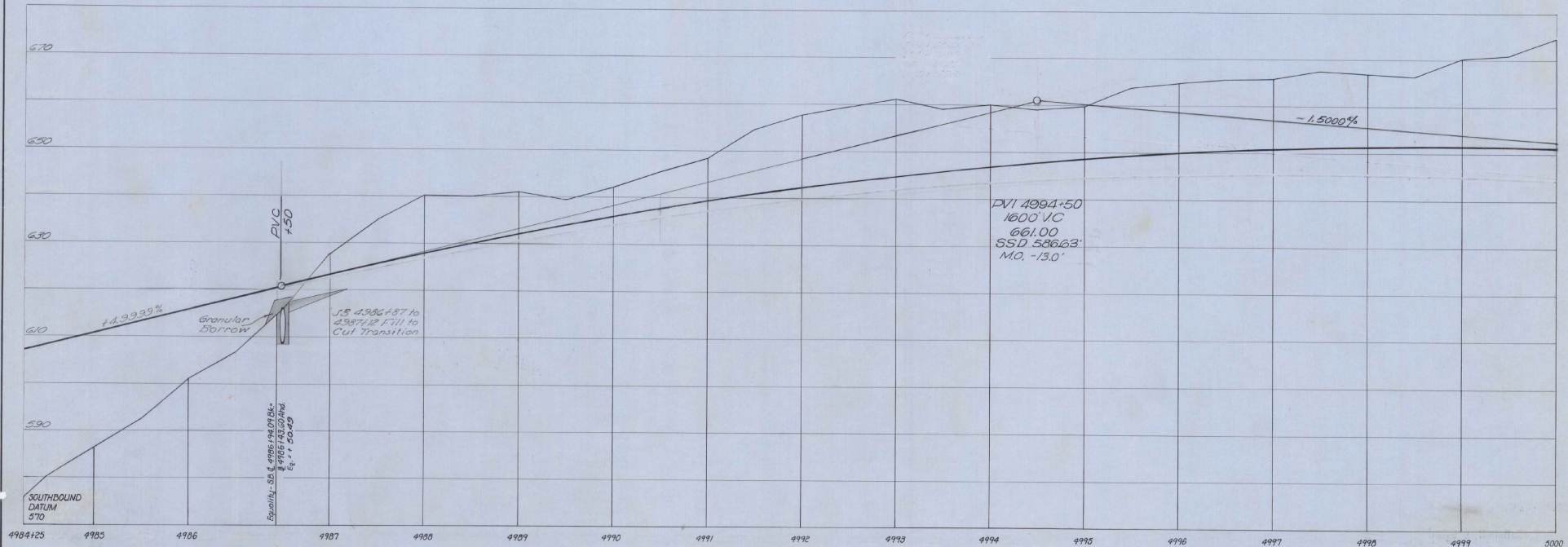
STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**  
McFARLAND - JOHNSON  
CONSULTING ENGINEERS

DESIGNED BY: RR  
CHECKED BY: SAK  
TRACED BY: LR  
DATE: 8-1-87

PROJECT No: 1-91-2(10)  
1-91-2(25) SHEET 41 OF 868

Stage 2 Construction  
Sheet 276 of 117 Sheets



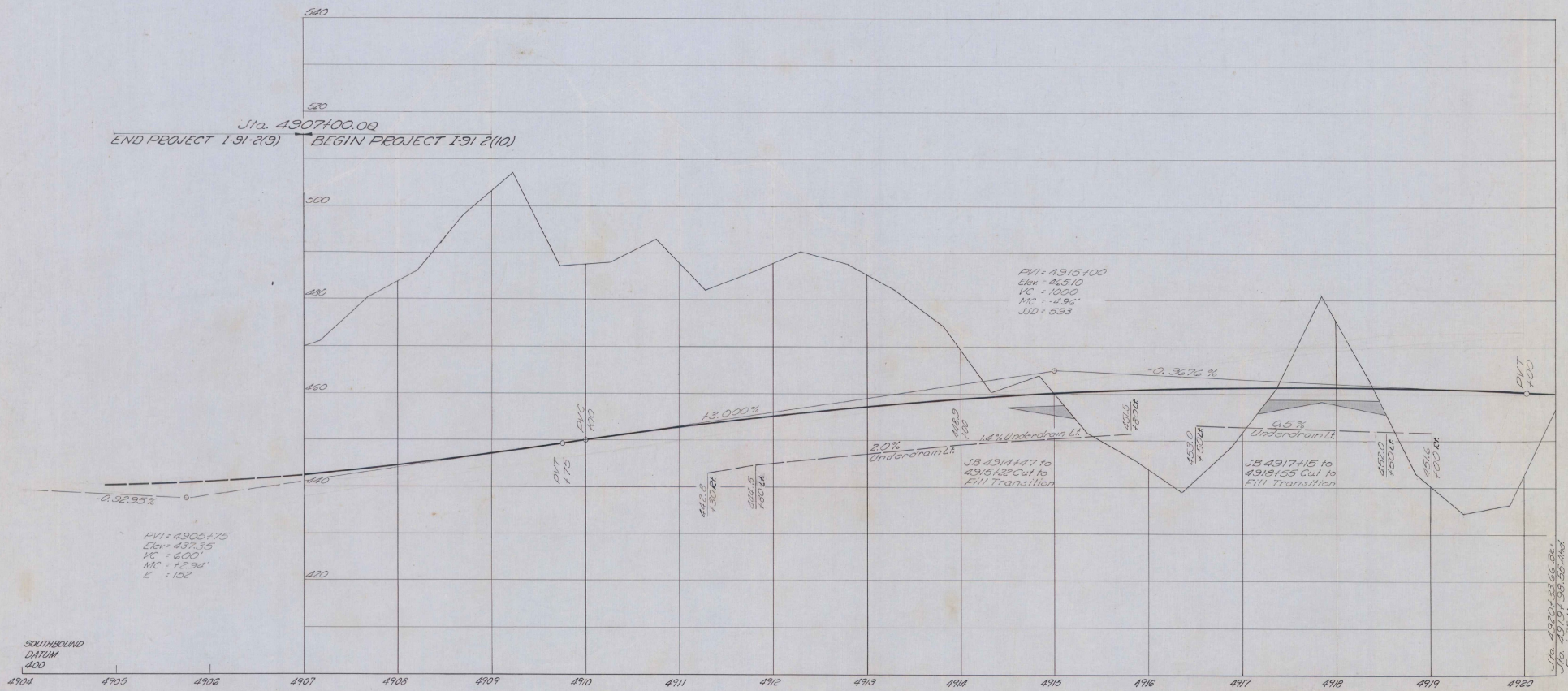


Stage 3 Finished Grade Shown Stage 2 Finished Grade 0.102' (1.25") Below.  
 Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE	50
HORIZ. SCALE	10
VERT. SCALE	10

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: D.K. 1/91-282	CHECKED BY: D.E.W.
TRACED BY: 1/91-282	DATE: 5-1-87
PROJECT No: 1-91-2(10)	CONTRACT No:
	SHEET 57 OF 868



Stage 3 Finished Grade Shown Stage 2 Finished Grade (1.25') Below Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade

PROFILE SCALE HORIZ. 1" = 50' FEET VERT. 1" = 10' FEET		STATE of VERMONT DEPARTMENT of HIGHWAYS <b>FAIRLEE-BRADFORD</b> McFARLAND JOHNSON CONSULTING ENGINEERS DESIGNED BY: T. J. S. CHECKED BY: S. E. W. PROJECT No: 1-91-2(10) CONTRACT No:	
		DATE: 8-1-91 SHEET 43 OF 868	

Drilling & Blasting of Solid Rock Item 14  
NB 5000+00 - 5006+25

Drilling & Blasting of Solid Rock Subgrade Item 15  
SB 5000+00 - 5016+00  
NB 5006+25 - 5016+00

Property Line Fence  
Steel Posts Item 583-1 Mod.  
NB 5000+00 - 5016+00

Chain Link Fence  
NB 5000+00 - 5016+00

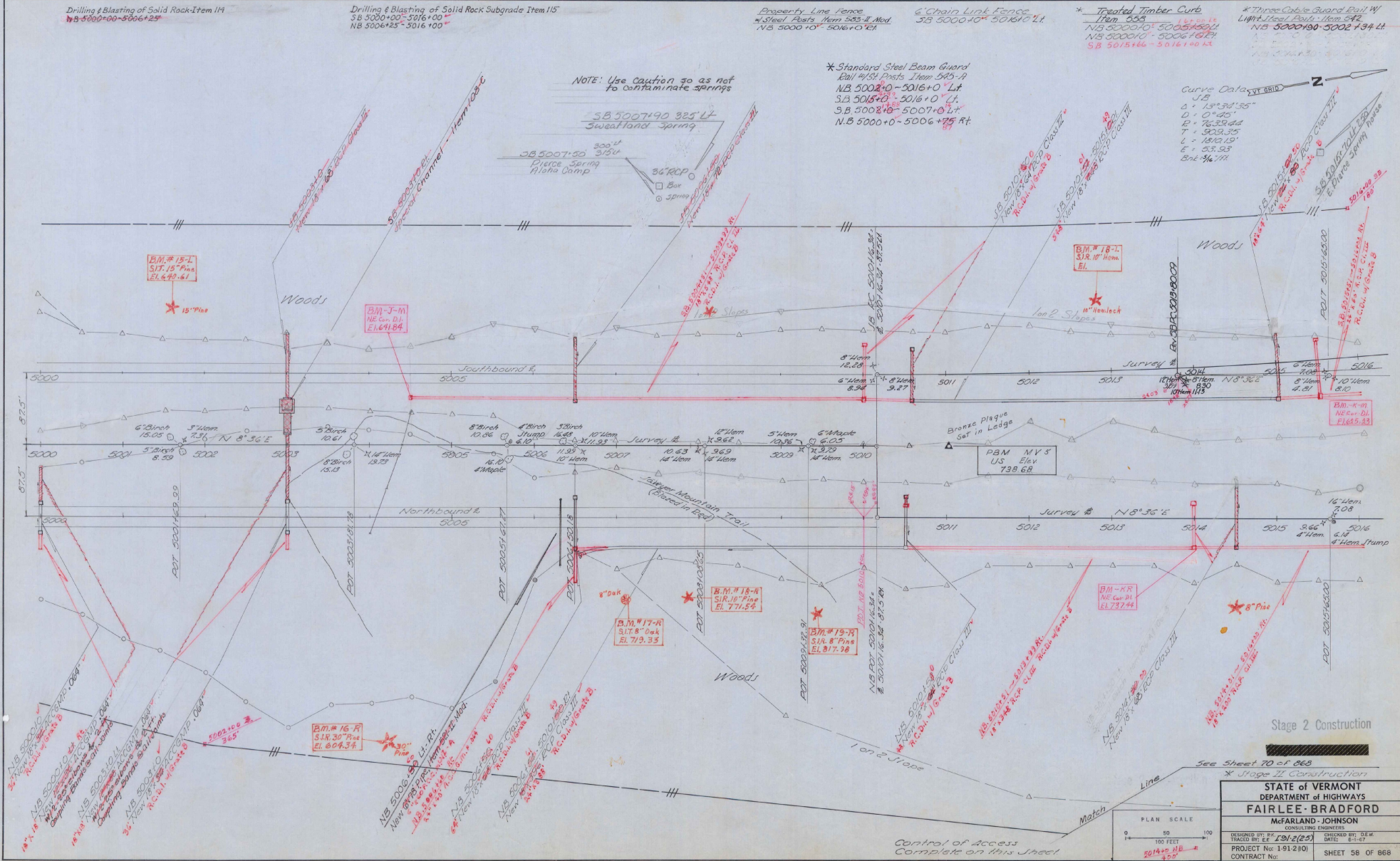
Treated Timber Curb  
Item 658  
NB 5000+00 - 5006+25  
NB 5000+00 - 5006+25  
NB 5015+66 - 5016+00

Three-Cable Guard Rail w/  
Light Steel Posts Item 542  
NB 5000+00 - 5002+34.4

Standard Steel Beam Guard  
Rail #58 Posts Item 585-A  
NB 5002+00 - 5016+00 Lt.  
SB 5015+00 - 5016+00 Lt.  
SB 5002+00 - 5007+00 Lt.  
NB 5000+00 - 5006+75 Rt.

NOTE: Use Caution so as not to contaminate springs

Curve Data  
J.B.  
A = 15°33'35"  
D = 0°45"  
B = 76.39.44  
T = 309.35  
L = 1810.15'  
E = 53.23  
Bri = 1/4 MI

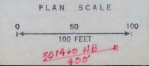


Stage 2 Construction

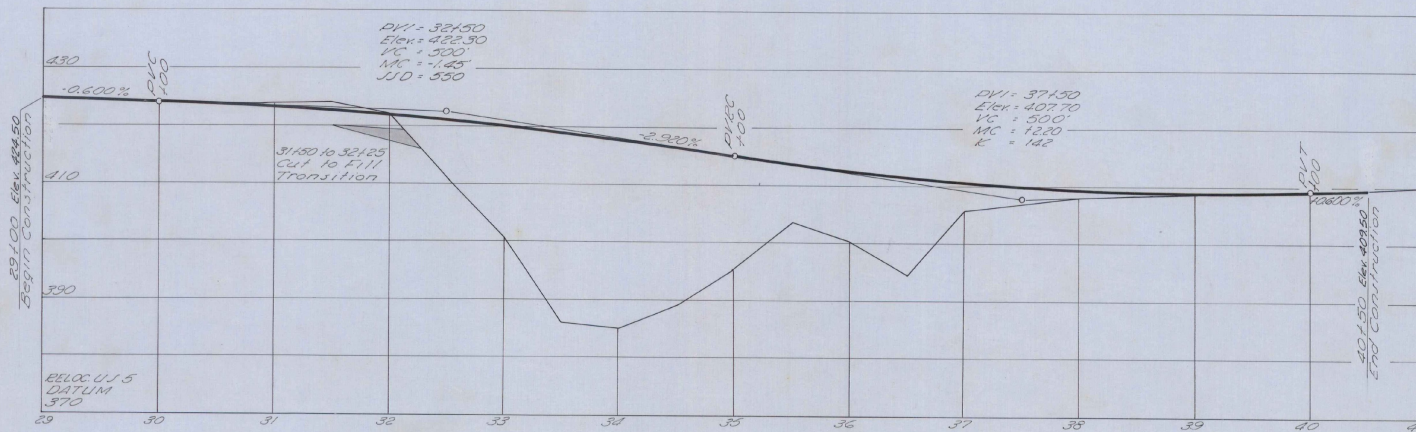
See Sheet 20 of 868

Stage II Construction

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: E.J. J.B. (25)	CHECKED BY: D.W.M.
TRACED BY: E.J. J.B. (25)	DATE: 8-1-67
PROJECT No: 191(210)	SHEET 58 OF 868
CONTRACT No:	



Control of Access  
Complete on this Sheet

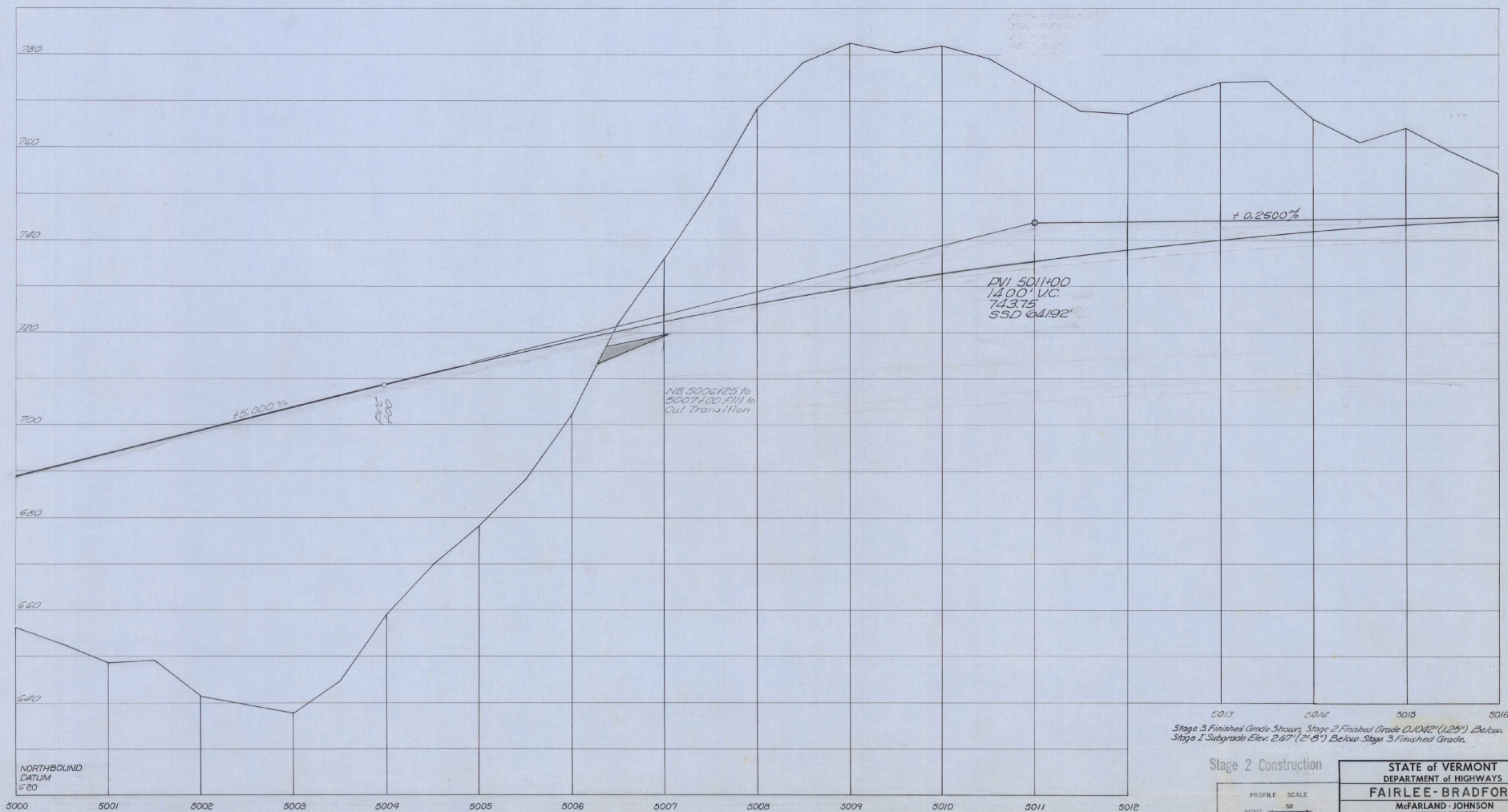


Reloc U.S.

PROFILE SCALE	50
HORIZ. FEET	10
VERT. FEET	10

STATE of VERMONT  
 DEPARTMENT of HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS

DESIGNED BY: T.J.S.	CHECKED BY: D.E.W.
DRAWN BY: T.J.S.	DATE: 8-1-67
PROJECT No: 1912(10)	SHEET 44 OF 868
CONTRACT No:	



NORTHBOUND DATUM @ 20

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.042' (1.25") Below, Stage 1 Subgrade Elev. 2.67' (21.8") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE  
 HORIZ. SCALE  
 VERT. SCALE

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: F. W. TRACY	CHECKED BY: S. E. W. DAVIS
PROJECT No: 1-91-2(10)	DATE: 8-11-67
CONTRACT No:	SHEET 59 OF 868

4' Chain Link Fence  
NB. 4920100-4926+20

\* Standard Steel Beam Guard Rail  
w/Steel Posts Item 545-A  
SB 4920100-493445 LF  
SB 493456-49347+92 LF

Property Line Fence  
w/Steel Posts Item 583-II Mod  
NB 4926+00-4936+00 LF  
SB 4926+00-4936+00 LF

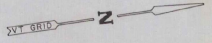
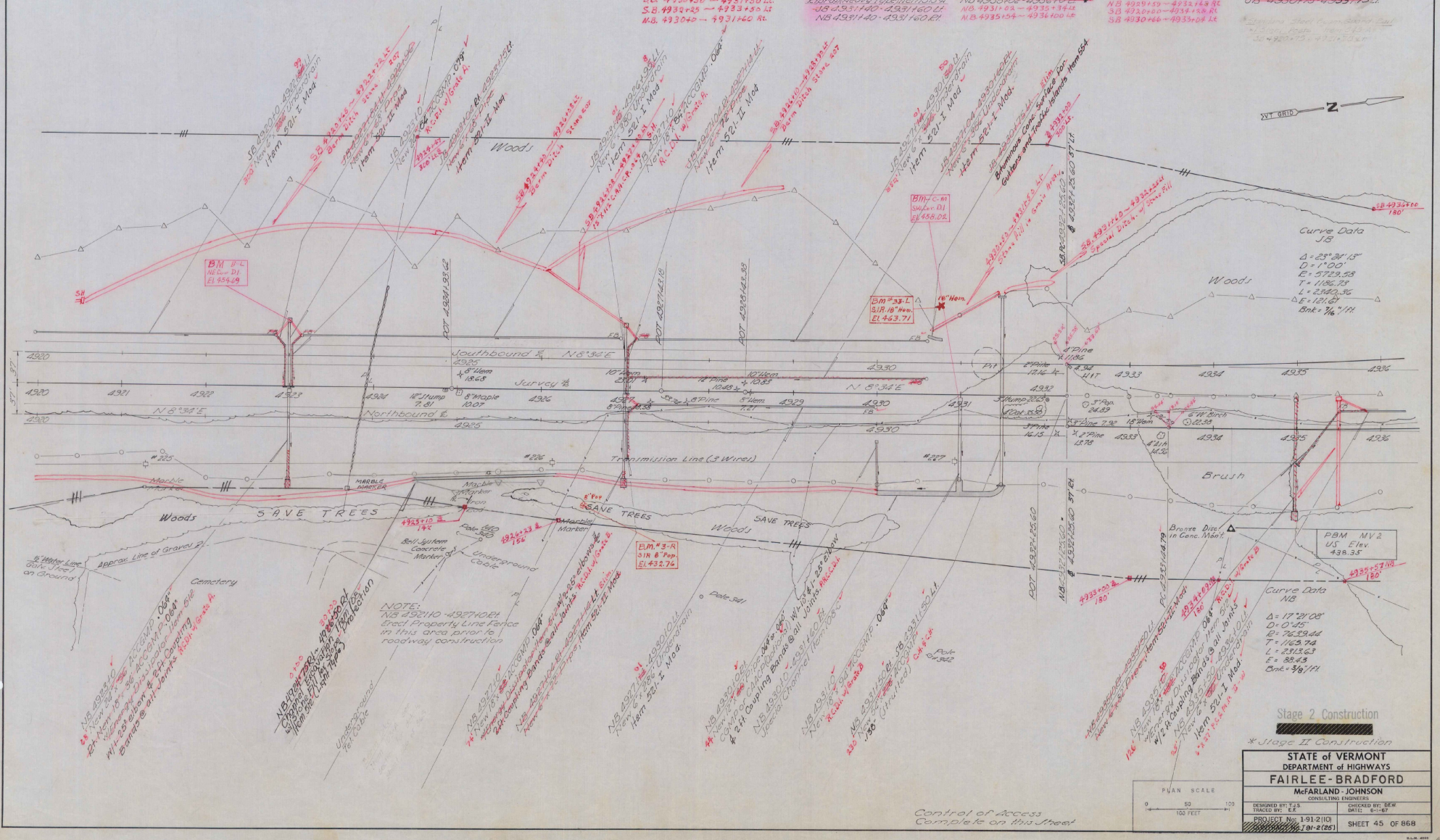
Slope Fill for Slope Protection (Light Type) Item 512  
NB 4931+00-4931+25 LF  
SB 4931+00-4931+25 LF  
SB 4931+25-4931+50 LF  
SB 4931+50-4931+160 LF

Grass (Light Type) Item 518  
NB 4931+00 LF  
NB 4931+00-4931+160 LF  
NB 4931+160-4931+160 LF

Grade Matting Item 623  
NB 4931+00-4931+160 LF  
NB 4931+160-4931+160 LF  
NB 4931+160-4931+160 LF

\* Treated Timber Curb Item 528  
NB 4931+00-4931+160 LF  
NB 4931+160-4931+160 LF  
NB 4931+160-4931+160 LF

\* Three Galbe Guard Rail w/Steel Posts Item 538  
NB 4931+00-4931+160 LF  
NB 4931+160-4931+160 LF  
NB 4931+160-4931+160 LF



Curve Data  
JB  
A = 25° 34' 15"  
D = 1700'  
E = 5729.55'  
T = 1186.75'  
L = 2340.36'  
Δ = 121.60'  
Sbk = 3/8" / 11'

Curve Data  
NB  
A = 17° 21' 08"  
D = 0' 45"  
E = 7629.44'  
T = 1163.74'  
L = 2315.63'  
Δ = 88.43'  
Sbk = 3/8" / 11'

NOTE:  
NB 492100-492700 LF  
std. Property Line Fence  
in this area prior to  
roadway construction

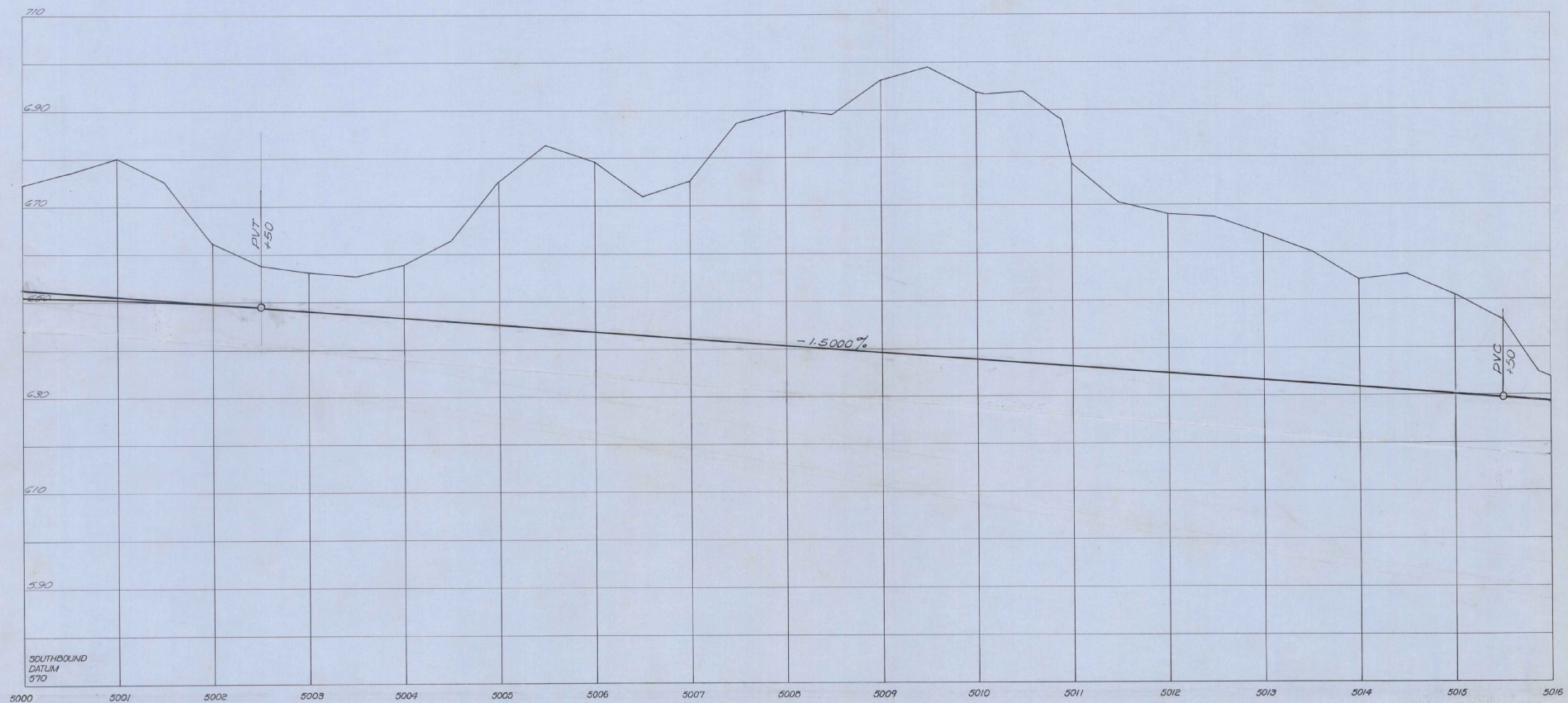
Stage 2 Construction  
\* Stage II Construction

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**  
McFARLAND - JOHNSON  
CONSULTING ENGINEERS

DESIGNED BY: J.S. [Signature]  
CHECKED BY: D.W. [Signature]

PROJECT No. 1-91-2101  
1-91-2(26) SHEET 45 OF 86B

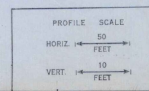
Control of Access  
Complete on this sheet



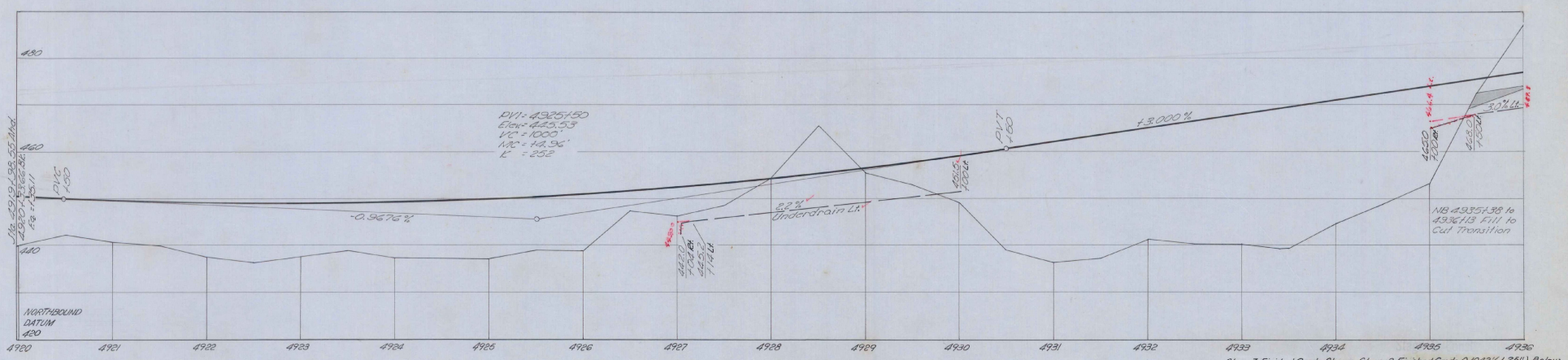
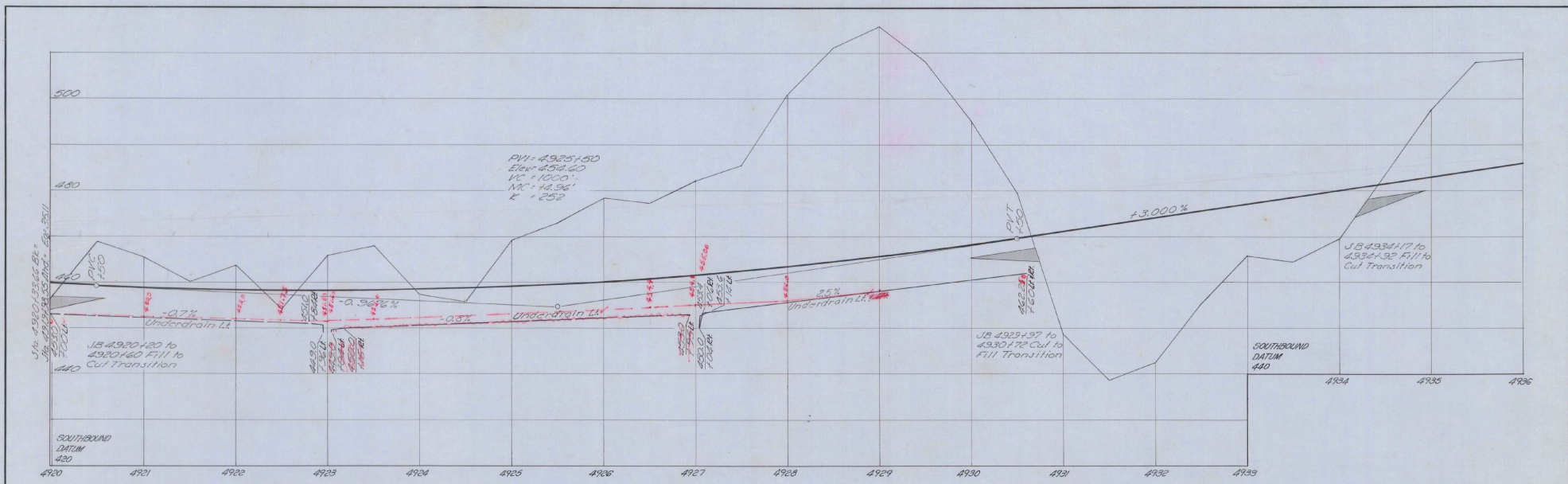
SOUTHBOUND  
DATUM  
870

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade

Stage 2 Construction



STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: D. W. J. 2/22	CHECKED BY: D. E. W.
TRACED BY: E. F. 2/22	DATE: 6-15-67
PROJECT No: 1-91-2(10)	SHEET 60 OF 868



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2'-5") Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE	50
HORIZ. FEET	10
VERT. FEET	10

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
<b>FAIRLEE - BRADFORD</b>	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: J. J. S.	CHECKED BY: J. P. W.
TRACED BY: E. J.	DATE: 6-1-67
PROJECT No: 191 2(10)	SHEET 46 OF 868
101-2(25)	

Drilling & Blasting of Solid Rock  
Subgrade Item 115  
SB 5016+00-5026+75.60  
NB 5016+00-5026+00  
SB 5026+75-5032+00  
8+35

Property Line Fence  
Steel Posts Item 583 II Mod  
NB 5016+00-5032+00 EL  
SB 5016+00-5032+00 LT

Chain Link Fence  
JB 5016+00-5018+40 LT

Stone Fill for Slope Protection  
Light Weight Item 510  
JB 5022+75-5022+55.41  
79+85

Gate Molding Item 623  
Item 583  
JB 5024+75-5024+60 LT

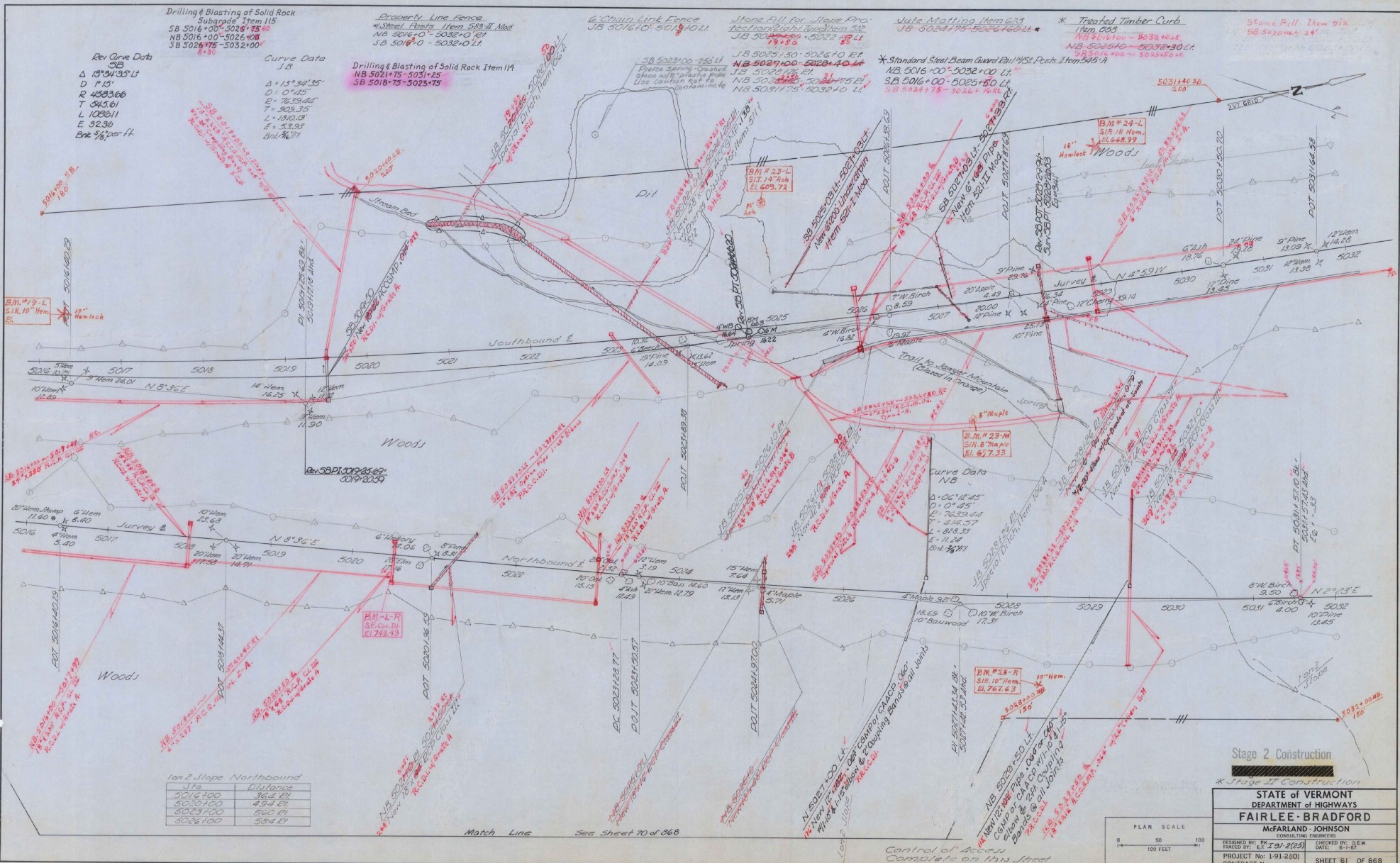
Treated Timber Curb  
Item 583  
NB 5016+00-5032+00 LT  
SB 5026+75-5032+00 LT  
5031+40.58  
5025+50.60

Stone Fill Item 512  
SB 5024+75-5024+60 LT

Rev Curve Data  
SB  
Δ 13°34'35" LT  
D P 15'  
R 4583.66  
T 545.61  
L 1028.11  
E 32.36  
Ent 3/8" per ft.

Curve Data  
JB  
Δ 15°34'35"  
D 0°45"  
E 7839.46"  
T 502.35"  
L 1210.15"  
E 53.95"  
Ent 3/8" per ft.

Drilling & Blasting of Solid Rock Item 114  
NB 5021+75-5051+25  
SB 5018+75-5023+75



1 on 2 Slope Northbound

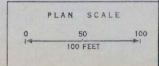
Sta.	Distance
5016+00	364.4 EL
5020+00	494.4 EL
5024+00	564.4 EL
5028+00	584.4 EL

Match Line See Sheet 70 of 868

Control of Access  
Complete on this Street

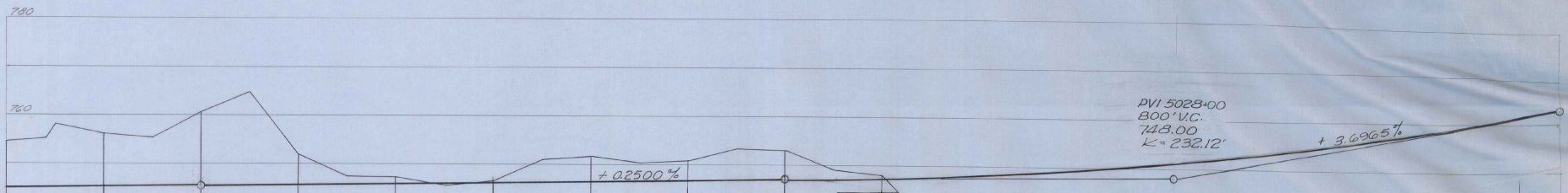
Stage 2 Construction

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**  
MARFARLAND - JOHNSON  
CONSULTING ENGINEERS  
DESIGNED BY: P. J. JOHNSON  
CHECKED BY: D.E.W.  
DATE: 6-1-67  
PROJECT No: 1-91-2(10)  
CONTRACT No: SHEET 61 OF 868



780

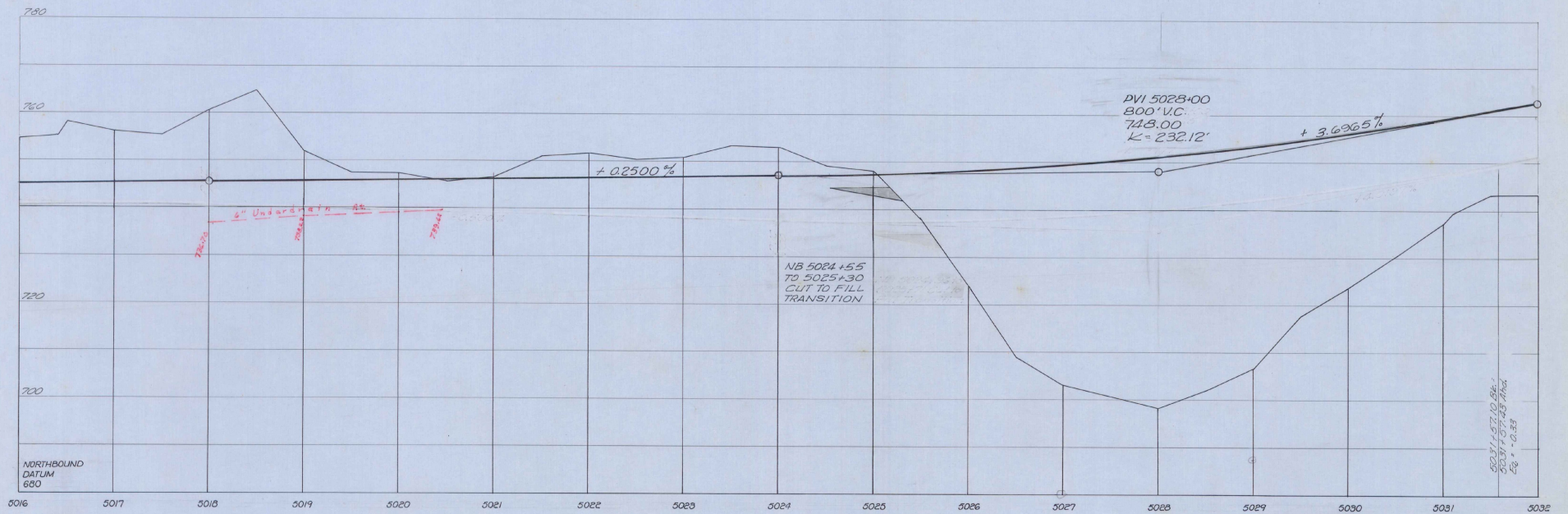
780



+ 0.0520%

PVI 5028+00  
800' V.C.  
748.00  
K=232.12'

+ 3.6965%



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below.  
Stage 1 Subgrade Elev. 2.67' (2'-3") Below Stage 3 Finished Grade.

Stage 2 Construction

PROFILE SCALE	30
HORIZ. FEET	10
VERT. FEET	10

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. J. ZON-2(25)	CHECKED BY: S.E.W.
PROJECT No: 1-91-2(10)	DATE: 6-1-82
CONTRACT No:	SHEET 62 OF 868

Rev' Pct 5028+29.94  
 SURV 2653  
 T 3.41

S.B  
 PVI 5019+50  
 800' VC  
 623.50  
 K=259.54'

Rev' Pct 5028+29.94  
 SURV AT 5028+26.53  
 EOP +3.41

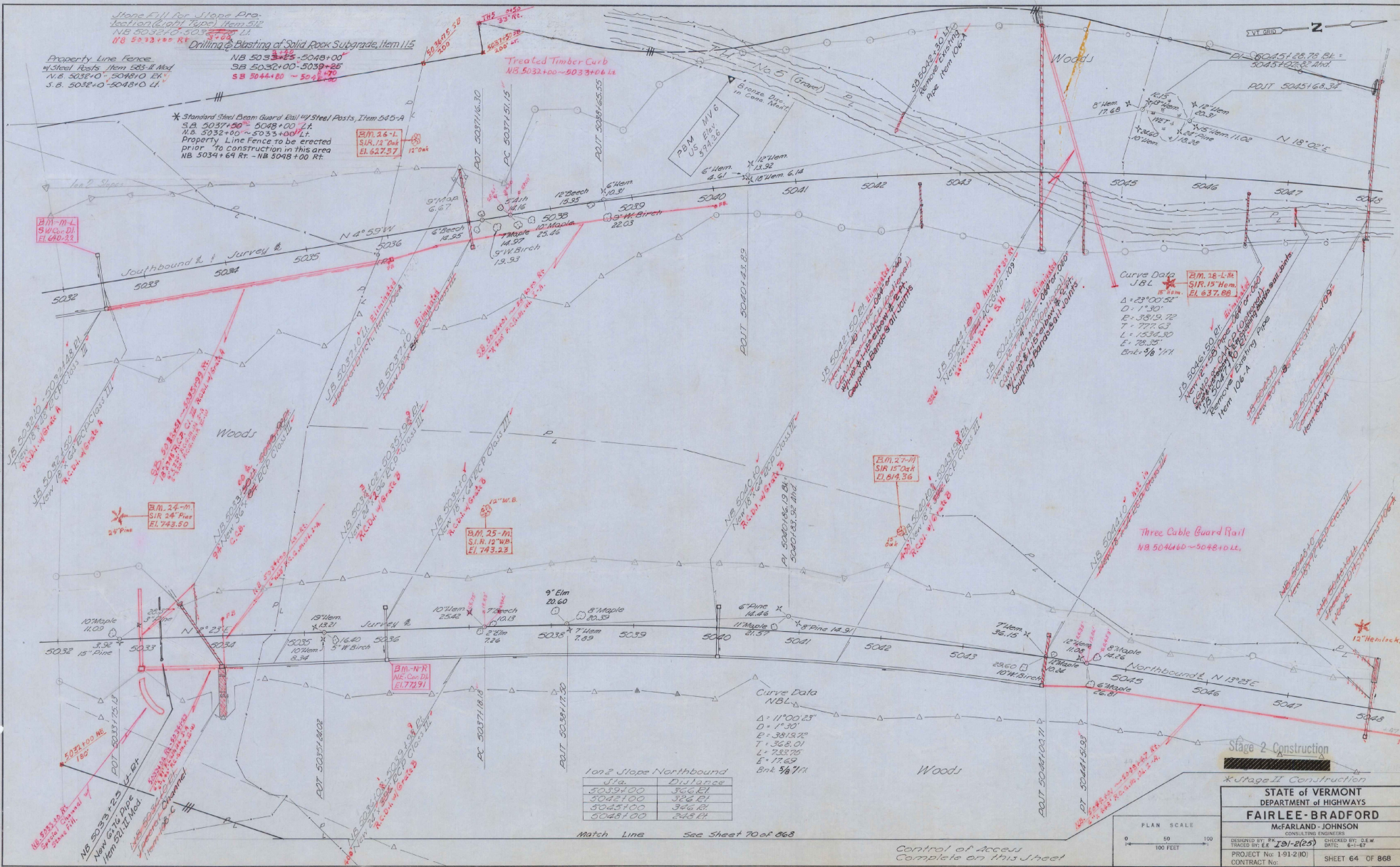
S.B 5026+54 TO  
 5027+29 FILL TO  
 CUT TRANSITION

SOUTHBOUND  
 DATUM  
 590 Stage 2 Construction

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.100% (1.25') Below  
 Stage 1 Subgrade Elev 2.67' (2'-5") Below Stage 3 Finished Grade

PROFILE SCALE  
 HORIZ. 1" = 40'  
 VERT. 1" = 10'

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: J. E. W.	ENGINEERED BY: D. E. W.
TRACED BY: E. J. W.	DATE: 6-1-47
PROJECT No: 1912(10)	SHEET 63 OF 868
CONTRACT No:	



Stone Fill for Slope Protection (Light Type) Item 512  
 NB 5032+00-5033+00 L.L.  
 NB 5033+00-5034+00 R.R.

Property Line Fence  
 Steel Posts Item 505-B Mod  
 N.B. 5034+00-5035+00 L.L.  
 S.B. 5035+00-5036+00 L.L.

Standard Steel Beam Guard Rail w/ Steel Posts, Item 545-A  
 S.A. 5037+00-5048+00 L.L.  
 S.B. 5032+00-5033+00 L.L.  
 Property Line Fence to be erected prior to construction in this area  
 NB 5034+64 Rt. - NB 5048+00 Rt.

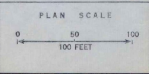
Treated Timber Curb  
 NB 5032+00-5033+04 L.L.

1 on 2 Slope Northbound

Sta.	Distance
5039+00	366 EL
5042+00	326 EL
5045+00	346 EL
5048+00	248 EL

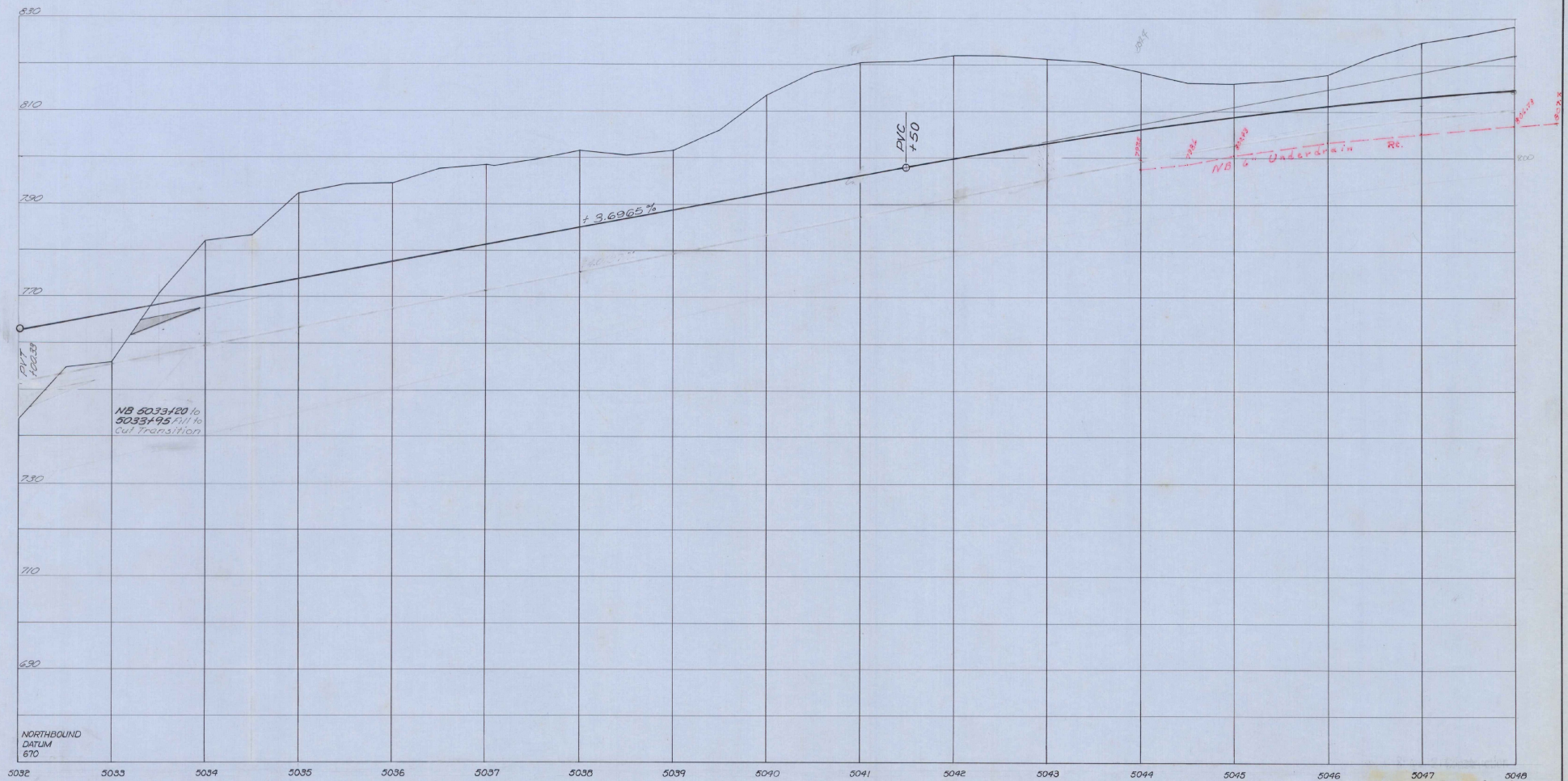
Match Line See Sheet 70 of 86

Control of Access Complete on this sheet



Stage 2 Construction

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLANE-JOHNSON  
 CONSULTING ENGINEERS  
 DESIGNED BY: E.E. 191-2(25) DRAWN BY: S.E.W.  
 CHECKED BY: E.E. 191-2(25) DATE: 6-1-67  
 PROJECT No: 1-91-2(10) SHEET 64 OF 868  
 CONTRACT No: SHEET 49 OF 117 SHEETS



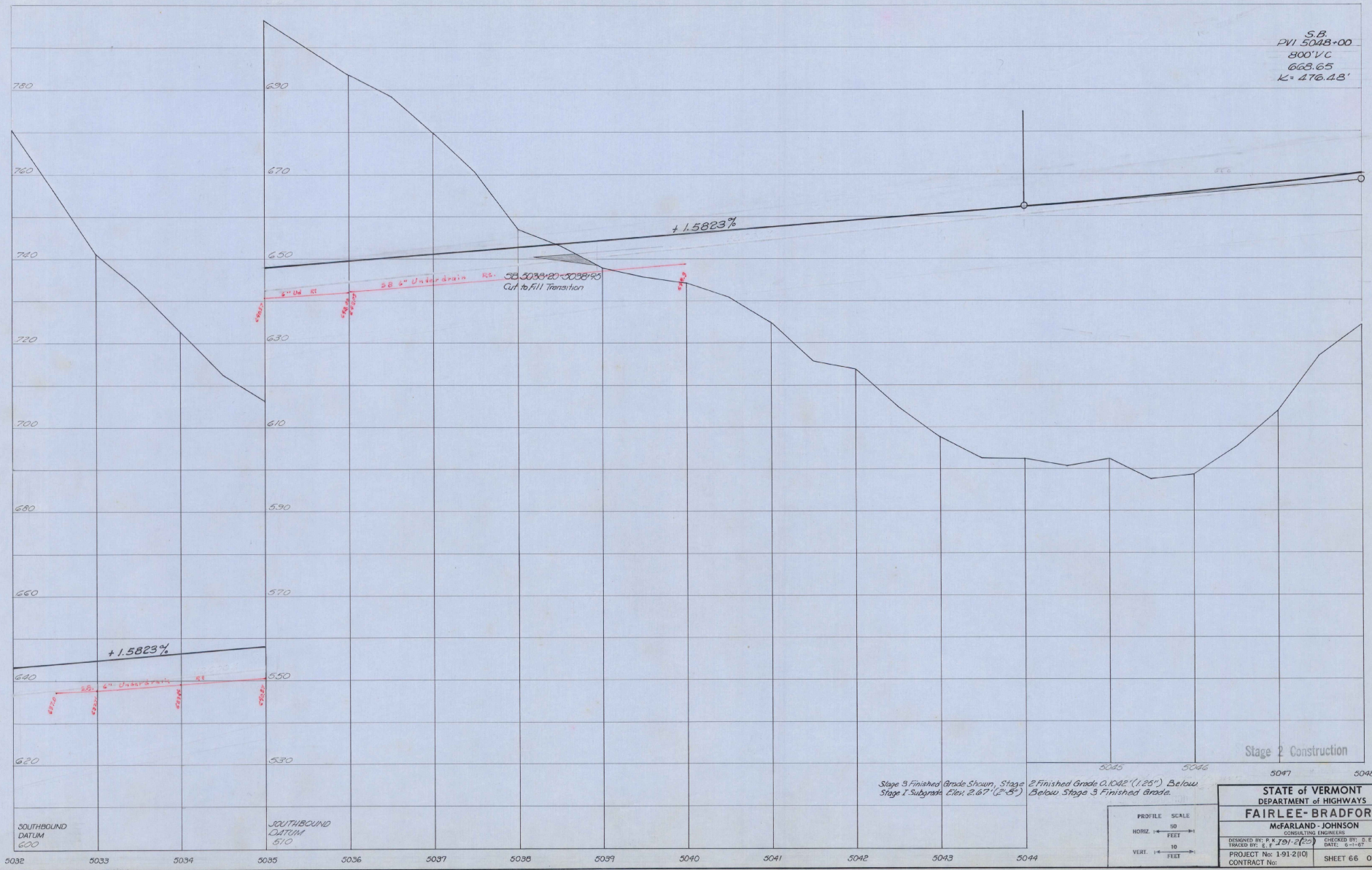
Stage 3 Finished Grade Shown, Stage 2 Finished Grade Dotted (1.25') Below  
 Stage 1 Subgrade Elev. 2.67' (2.67') Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE	10
HORIZ. SCALE	10 FEET
VERT. SCALE	10 FEET

<b>STATE OF VERMONT</b>	
<b>DEPARTMENT of HIGHWAYS</b>	
<b>FAIRLEE-BRADFORD</b>	
<b>McFARLAND-JOHNSON</b>	
<small>CONSULTING ENGINEERS</small>	
DESIGNED BY: R. J. J. (20)	CHECKED BY: S. E. W.
TRACED BY: E. J. J. (20)	DATE: 6-1-66
PROJECT No: 1-91-2(10)	SHEET 65 OF 866
CONTRACT No:	

S.B.  
 PVI 5048+00  
 800' VC  
 668.65  
 L = 476.43'

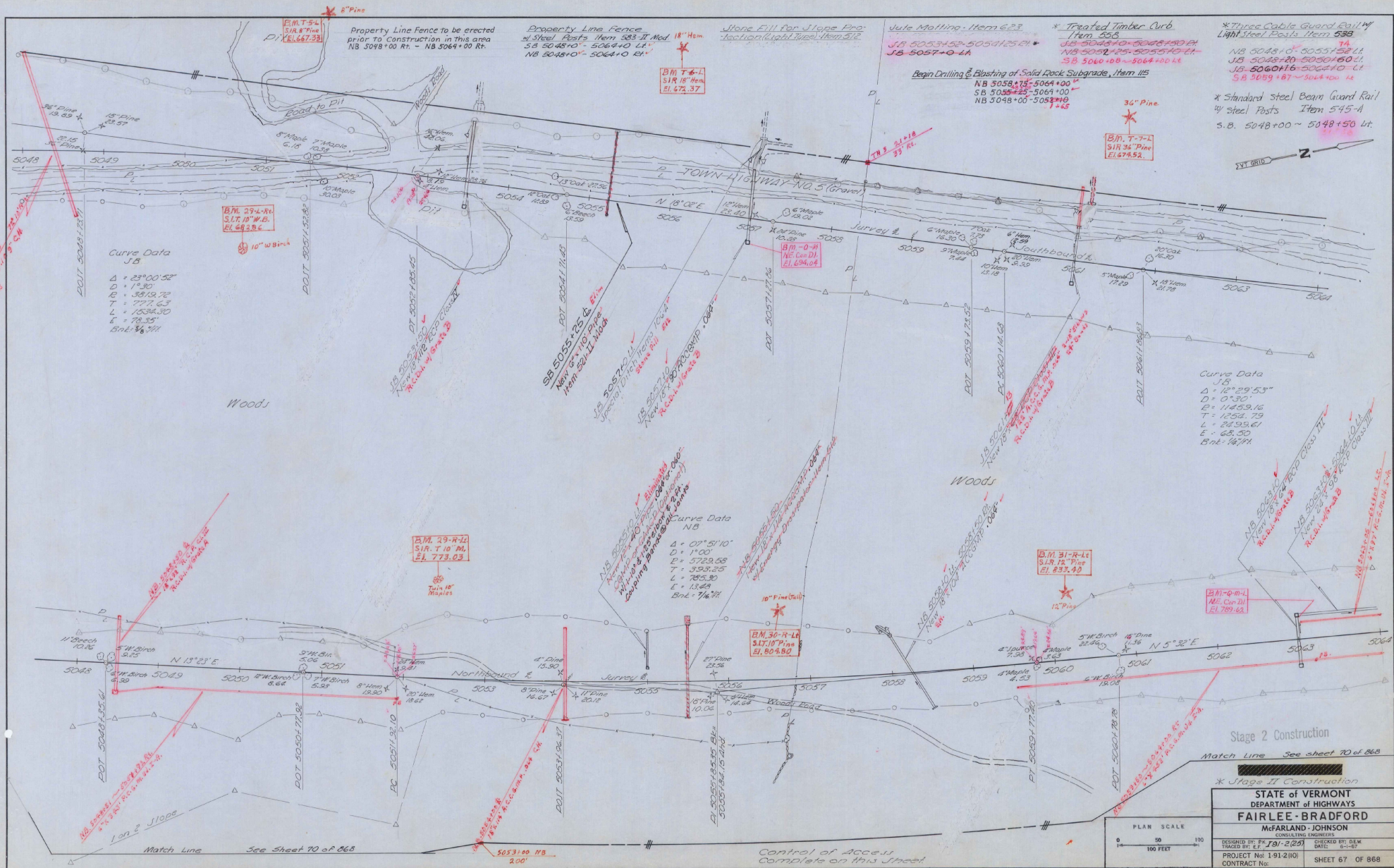


Stage 3 Finished Grade Stream, Stage 1 Subgrade Elev. 2.67' (2'-8")  
 Stage 2 Construction  
 Finished Grade 0.1042' (1.25") Below Below Stage 3 Finished Grade.

SOUTHBOUND DATUM 620  
 SOUTHBOUND DATUM 610

PROFILE SCALE  
 HORIZ. 1" = 50 FEET  
 VERT. 1" = 10 FEET

<b>STATE of VERMONT</b> DEPARTMENT of HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. K. J. (P.K.)	CHECKED BY: D. E. W.
TRACED BY: E. F. J. (E.F.)	DATE: 6-11-67
PROJECT No: 191-2(10)	SHEET 66 OF 86B
CONTRACT No:	



Curve Data  
 J.B.  
 $\Delta = 23^{\circ}00'52''$   
 $D = 1^{\circ}30'$   
 $E = 3819.72$   
 $T = 777.63$   
 $L = 1534.30$   
 $E = 78.35'$   
 $Bkt = 36.74'$

Curve Data  
 J.B.  
 $\Delta = 12^{\circ}29'53''$   
 $D = 0^{\circ}30'$   
 $E = 11459.16$   
 $T = 252.79$   
 $L = 8195.61$   
 $E = 68.50$   
 $Bkt = 14.74'$

Curve Data  
 N.B.  
 $\Delta = 07^{\circ}51'10''$   
 $D = 1^{\circ}00'$   
 $E = 5729.58$   
 $T = 353.25$   
 $L = 785.30$   
 $E = 13.64'$   
 $Bkt = 74.74'$

Stage 2 Construction  
 Match Line See sheet 70 of 88

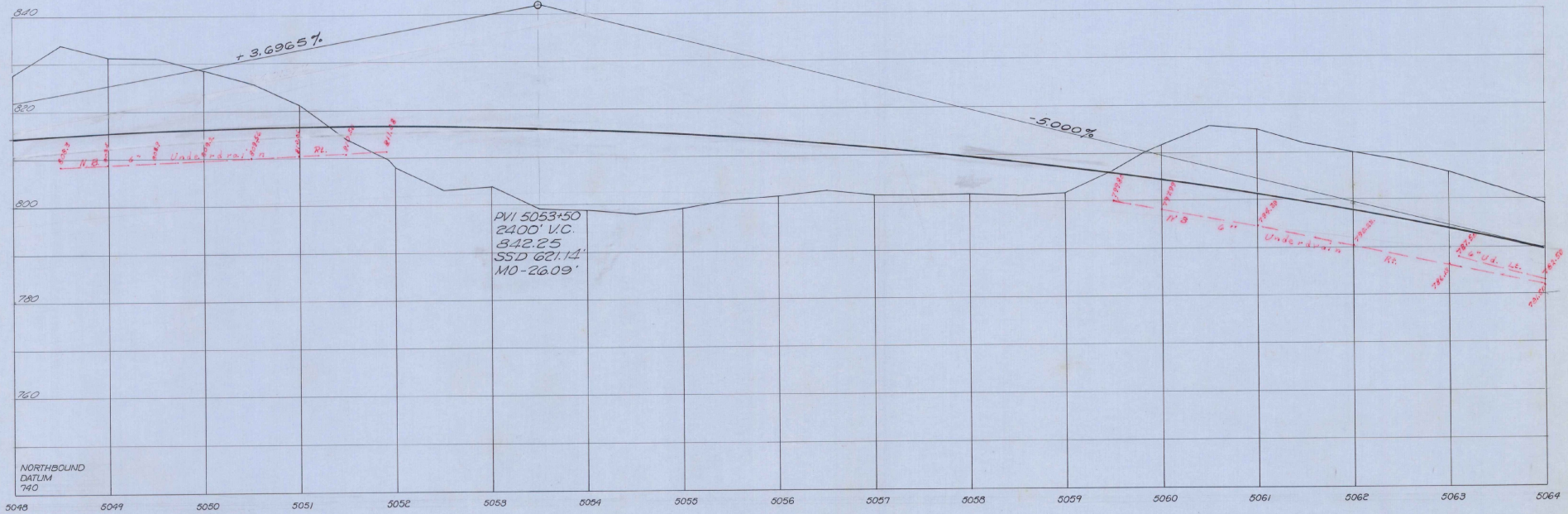
\* Stage II Construction

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**

McFARLAND - JOHNSON  
 CONSULTING ENGINEERS

DESIGNED BY: P.K. 7/1/2/61 CHECKED BY: DEW  
 PROJECT No: 1.91(210) DATE: 6-1-67  
 CONTRACT No: SHEET 67 OF 868

PLAN SCALE  
 0 50 100  
 100 FEET



PVI 5053+50  
 2400' V.C.  
 B.L. 842.25  
 SSD 621.14  
 MO - 26.09'

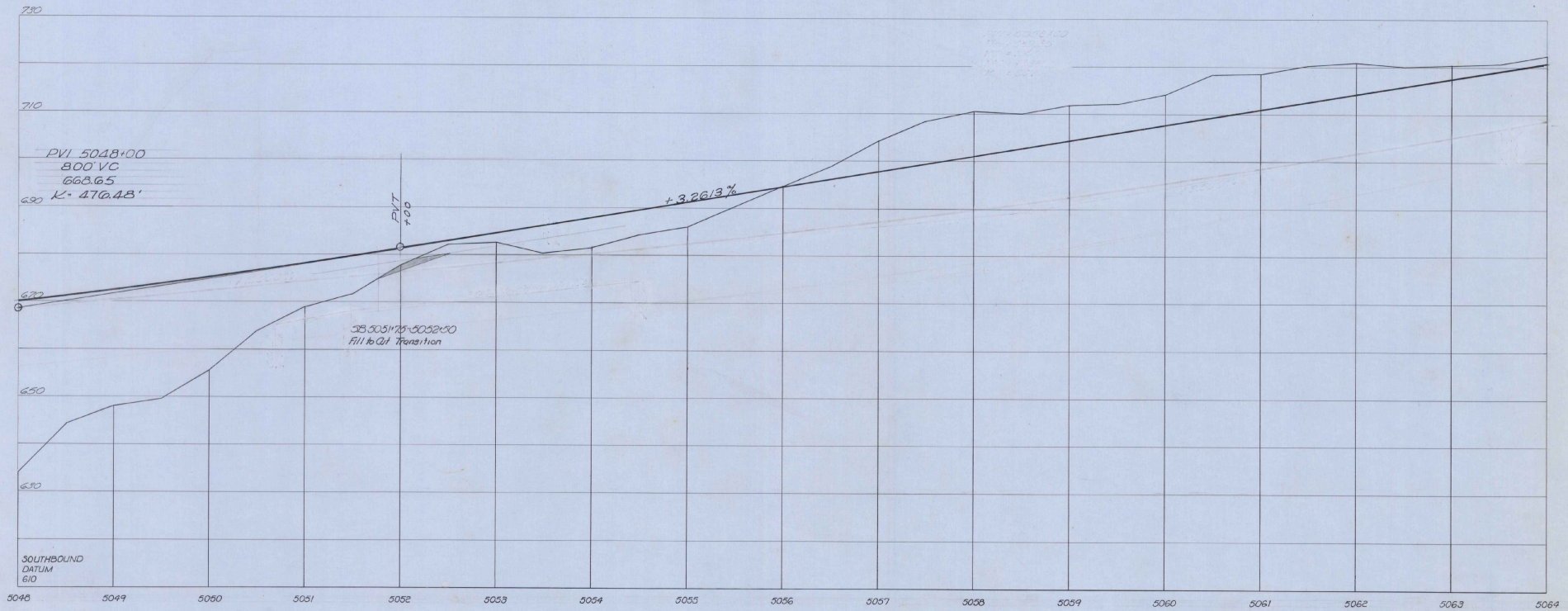
NORTHBOUND  
 DATUM  
 740

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1082' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2'-5") Below Stage 3 Finished Grade.

Stage 2 Construction:

PROFILE SCALE	1" = 10'
HORIZ. SCALE	1" = 50'
VERT. SCALE	1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. K. T. 12/2/24	CHECKED BY: S. E. W.
PROJECT No: 1-912(10)	DATE: 6-1-27
CONTRACT No:	SHEET 68 OF 868

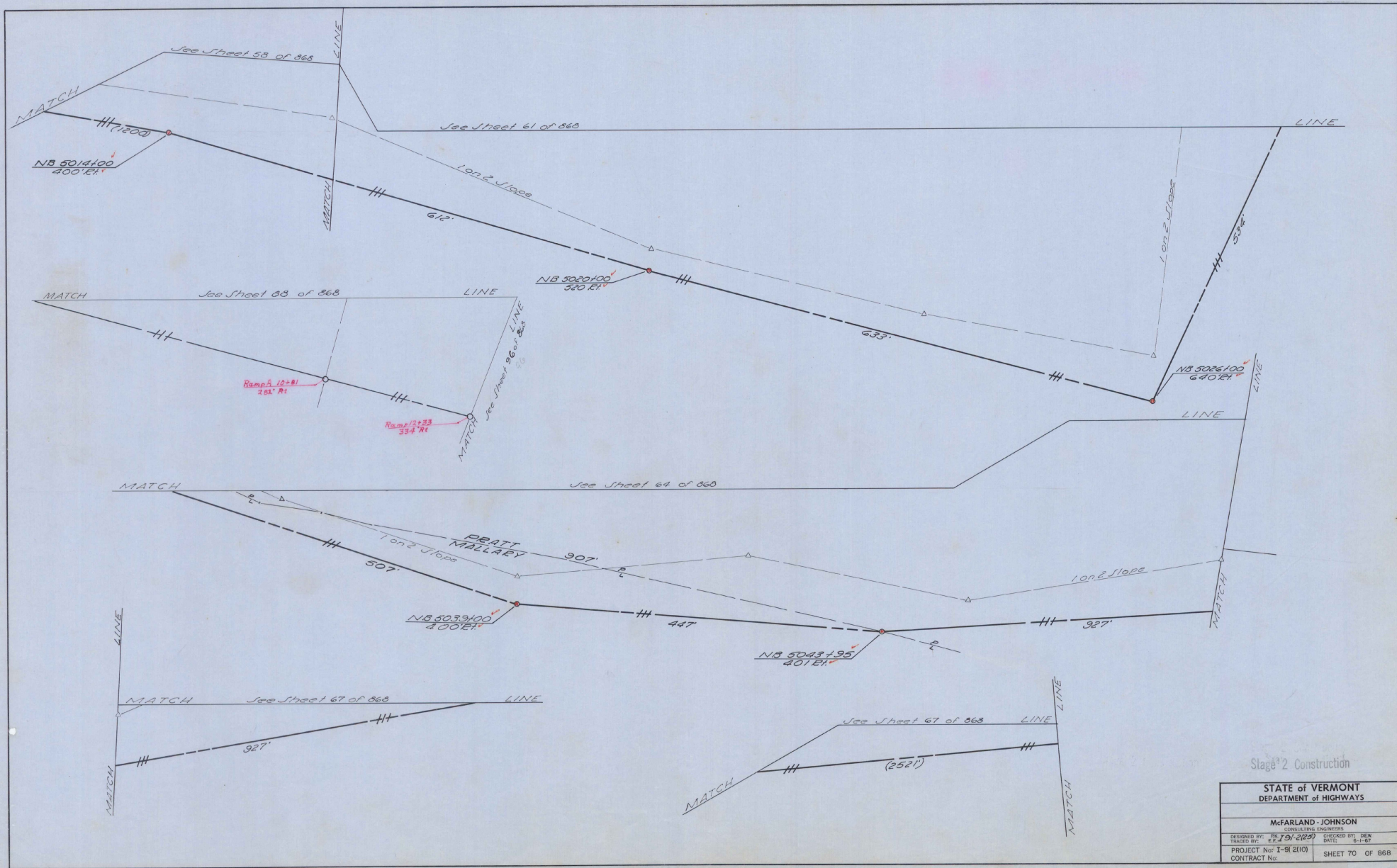


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042" (1.25") Below  
Stage 1 Subgrade Elev. 2.67' (2'-5") Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE:	30
HORIZ. SCALE:	1" = 10'
VERT. SCALE:	1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. J. J. J. J. J. J.	CHECKED BY: S. E. W.
TRACED BY: E. J.	DATE: 8-1-67
PROJECT No: 1-91-2(10)	CONTRACT No: 668
	SHEET 69 OF 668



Stage 2 Construction

STATE of VERMONT DEPARTMENT of HIGHWAYS	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: JF 701-2120	CHECKED BY: DEW
DRAWN BY: JF 701-2120	DATE: 5-1-67
PROJECT No: I-91 21(1)	SHEET 70 OF 868
CONTRACT No:	

Drilling & Blasting of Solid Rock Item 114  
NB 5071+75 - 5073+75

Property Line Fence to be erected  
Prior to Construction in this area  
NB 5064+00 Rn - NB 5078+42 Rn

Property Line Fence  
w/ Steel Posts Item 583 Item 584  
NB 5064+00 - 5080+00 Rn  
SB 5064+00 - 5080+00 Lk

Stone Fill for Slope Protection  
Light Jugs Item 212  
NB 5064+00 - 5072+00 SB  
NB 5073+25 - 5073+75 SB  
JB 5071+35 - 5073+25 H

Julie Matting Item 623  
NB 5064+00 - 5066+25 Rn  
NB 5067+00 - 5068+00 Lk  
JB 5073+25 - 5073+75 SB  
JB 5074+25 - 5074+75 SB

\* Standard Steel Beam Guard Rail  
w/ Steel Posts Item 575-A  
SB 5064+50 - 5073+00 Lk

Removal & Disposal of  
Building  
SB 5071+92 Lk

Excavation and Removal of Road  
Surfaces and/or Pavements Item 119  
SB 5070+50 Rn - NB 5077+00 Lk

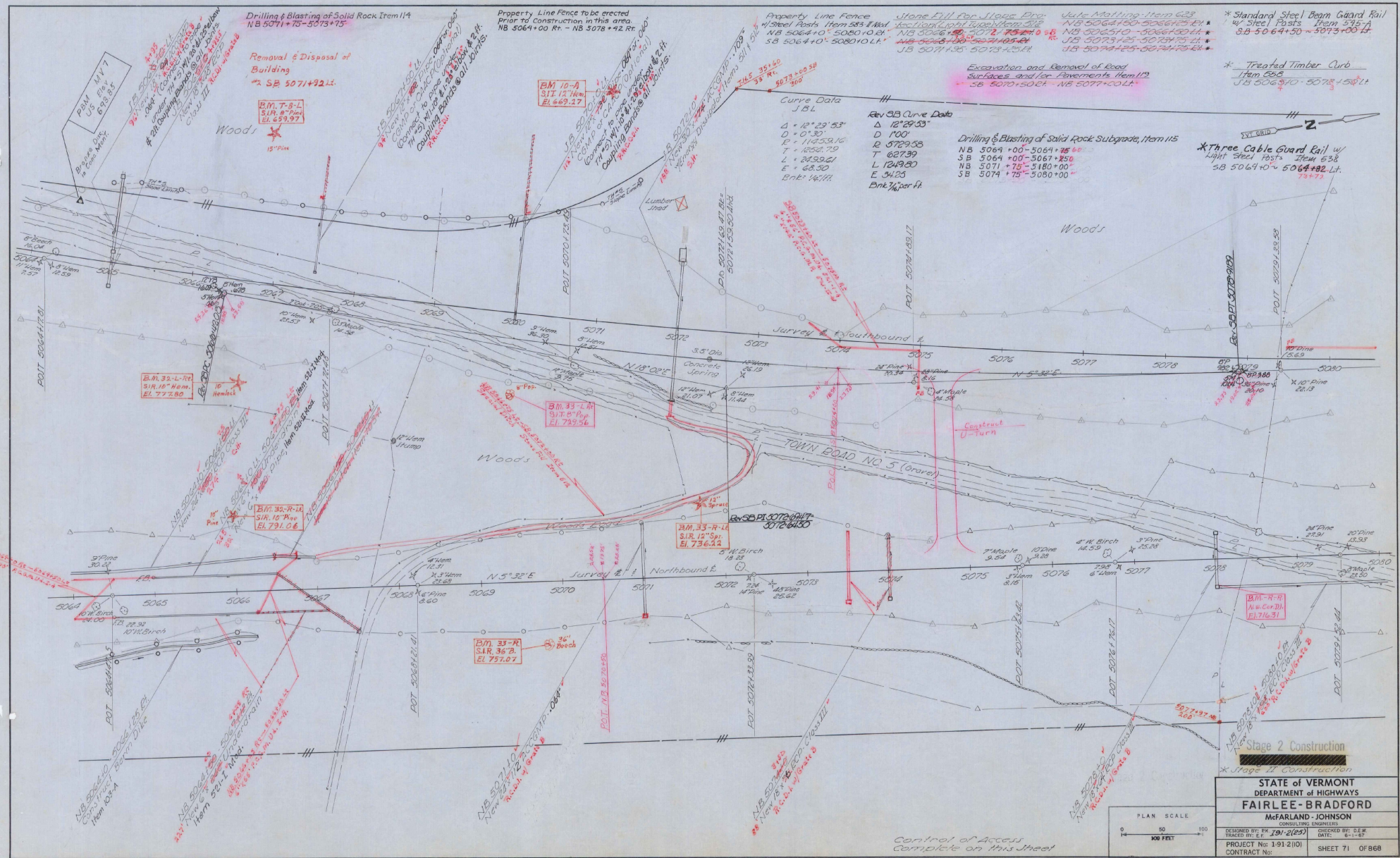
\* Treated Timber Curb  
Item 585  
JB 5064+00 - 5078+42 Lk

Curve Data  
JBL  
Δ = 12° 29' 53"  
D = 01.30'  
L = 1453.16'  
T = 1658.79'  
L = 2439.61'  
E = 68.30'  
Bnk: 14.00'

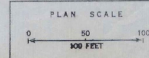
Rev 9B Curve Data  
Δ = 12° 29' 53"  
D = 100'  
R = 5729.50'  
T = 627.39'  
L = 1249.80'  
E = 34.25'  
Bnk: 1/4 per ft

Drilling & Blasting of Solid Rock Subgrade, Item 115  
NB 5064+00 - 5064+75 Rn  
SB 5064+00 - 5067+25 Lk  
NB 5071+75 - 5180+00 Rn  
SB 5074+75 - 5080+00 Lk

\* Three Cable Guard Rail w/  
Light Steel Posts Item 638  
SB 5064+00 - 5066+82 Lk



Control of Access  
Complete on this Street

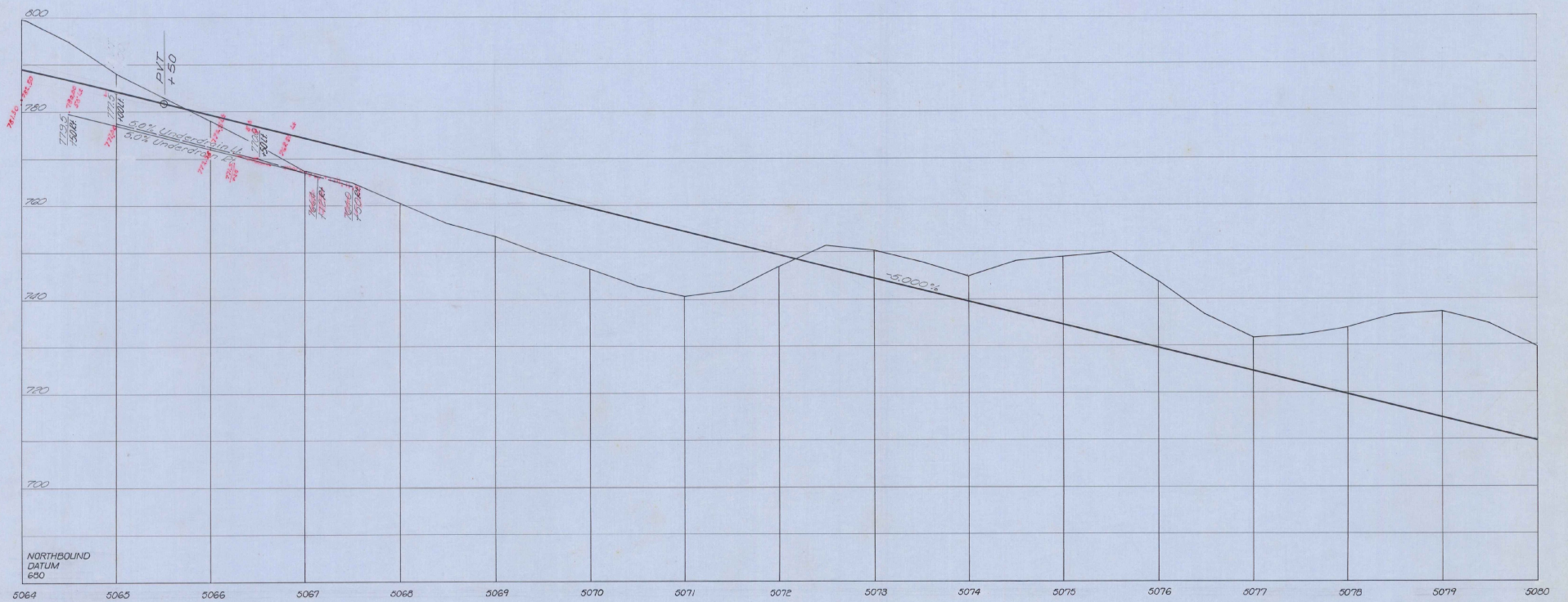


Stage 2 Construction  
\* Stage II Construction

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
McFARLAND-JOHNSON  
CONSULTING ENGINEERS

DESIGNED BY: P.W. 191-2(25) CHECKED BY: C.E.F.  
TRACED BY: E.E. DATE: 6-1-87

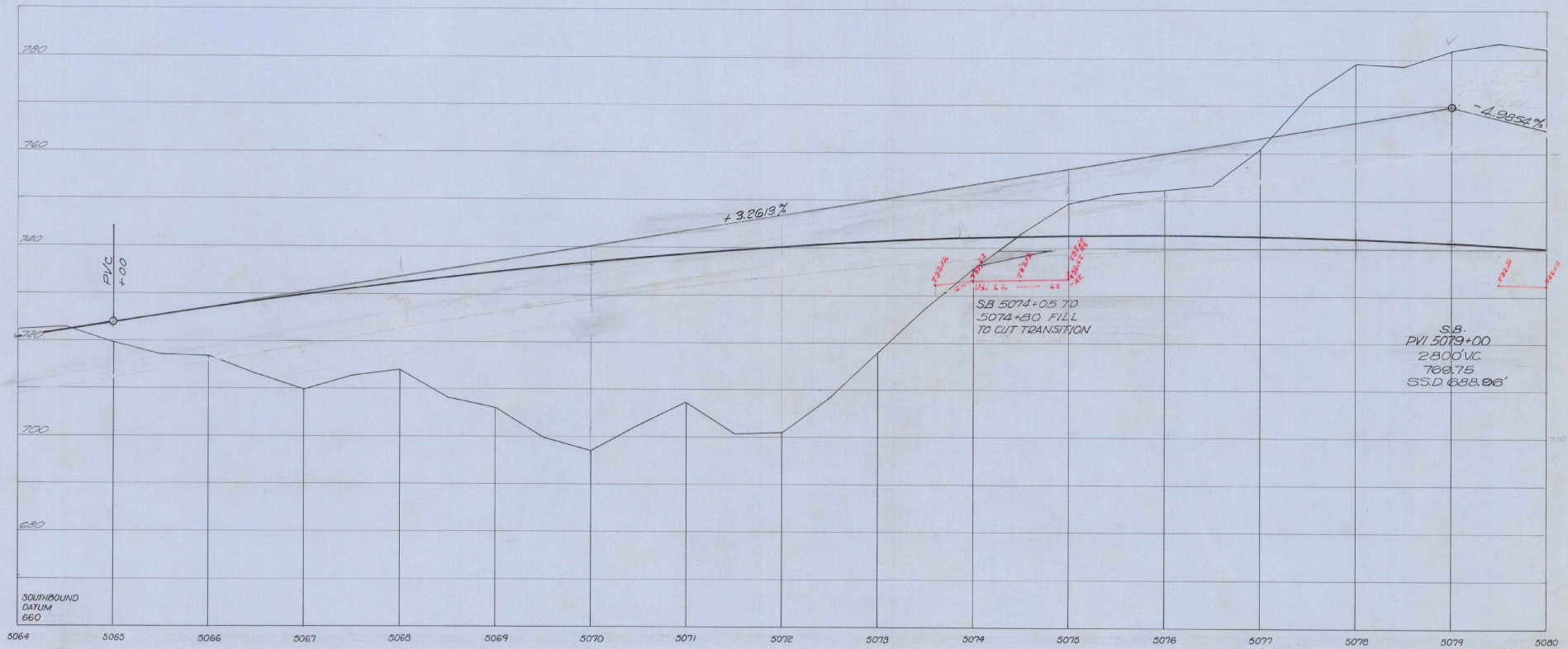
PROJECT No: 1912(10) SHEET 71 OF 868  
CONTRACT No:



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below Stage I Subgrade Elev. 2.87' (2'-5") Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE		STATE OF VERMONT	
HORIZ. SCALE		DEPARTMENT OF HIGHWAYS	
VERT. SCALE		FAIRLEE - BRADFORD	
		McFARLAND - JOHNSON	
		CONSULTING ENGINEERS	
		DESIGNED BY: P. K. JOHNSON	CHECKED BY: D. E. JOHNSON
		PROJECT No: 1912(10)	DATE: 6-1-87
		CONTRACT No:	SHEET 72 OF 868



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25') Below  
 Stage 1 Subgrade Elev. 2.67' (2'-5") Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE  
 HORIZ. 1" = 50'  
 VERT. 1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. A. JOHNSON	CHECKED BY: D. E. *
TRACED BY: E. J.	DATE: 8-1-88
PROJECT No: 1-912(10)	CONTRACT No:
SHEET 73 OF 868	

Excavation and Removal of Road Surfaces and/or Pavements Item 119  
NB 5081+70 - 5087+70 Rt.

Property Line Fence  
4 Steel Posts Item 523 Mod  
NB 5080+00 - 5096+00 Rt.  
SB 5080+00 - 5096+00 Lt.

Stone Fill for Slope Protection (Heavy Type) Item 511  
NB 5084+50 - 5096+70 Rt.  
SB 5084+50 - 5096+70 Lt.

Emergency Type Mem 513-A  
JB 5093+15 Lt.  
NB 5095+00 Rt.

Jul-Matting Item 623  
NB 5085+45 - 5086+10 Rt.  
JB 5087+50 - 5087+85 Rt.  
NB 5087+50 - 5088+95 Lt.  
NB 5088+40 - 5089+65 Lt.

\* Treated Timber Curb  
Item 558  
NB 5090+00 - 5096+10 Rt.  
JB 5091+90 - 5096+10 Lt.

\* Three Cable Guard Rail  
Light Steel Post Item 530  
NB 5085+34 - 5088+50 Rt.  
NB 5091+89 - 5096+65 Lt.

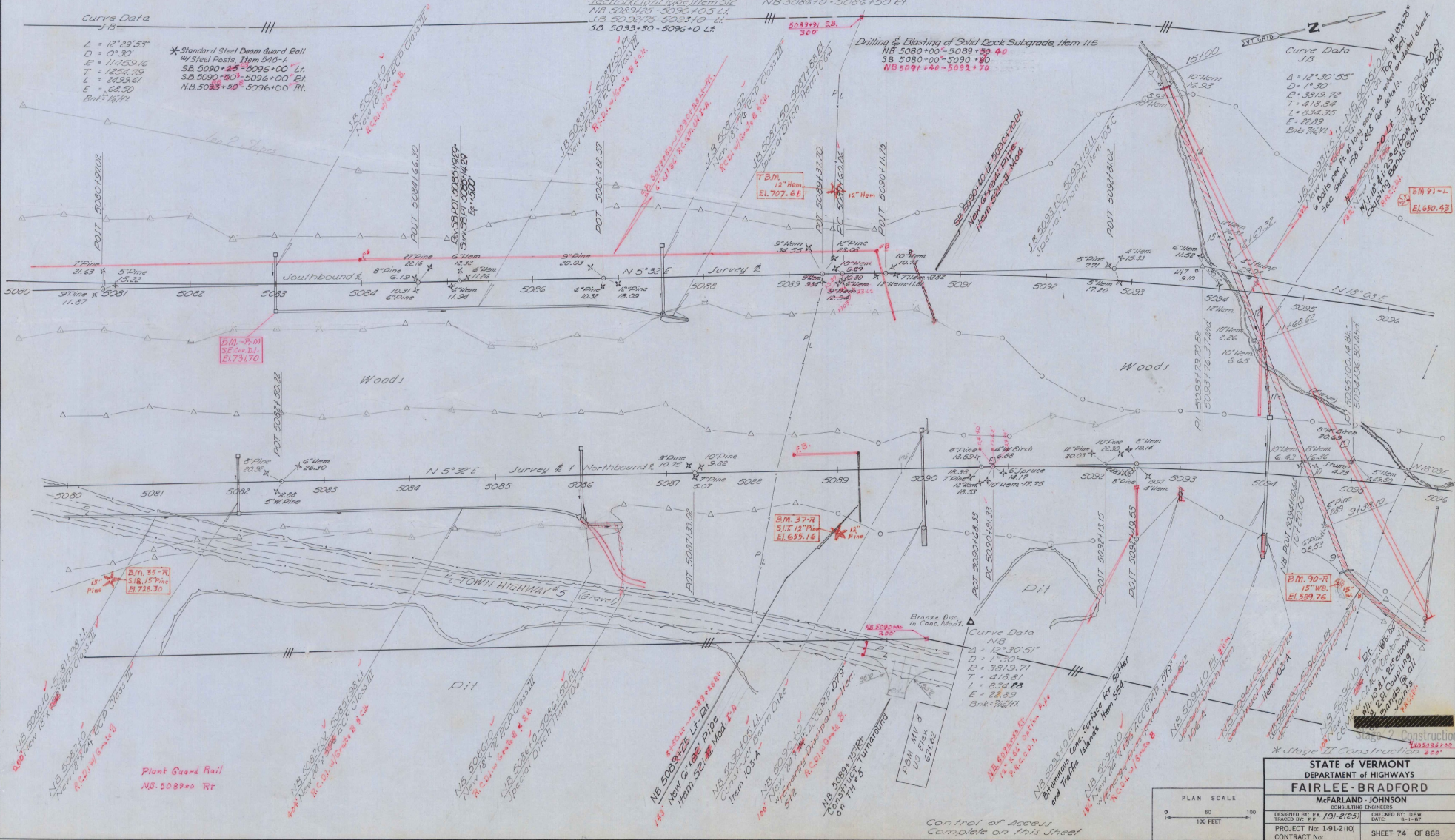
Curve Data  
NB

$\Delta = 12^{\circ} 29' 53''$   
 $D = 0' 13.0''$   
 $E = 1125.916$   
 $T = 1254.75$   
 $L = 142.861$   
 $E = 68.50$   
Bk: 14.674

\* Standard Steel Beam Guard Rail  
w/ Steel Posts, Item 545-A  
SB 5090+85 - 5096+00 Lt.  
SB 5090+80 - 5096+00 Rt.  
NB 5088+50 - 5096+00 Rt.

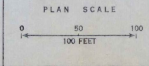
Curve Data  
JB

$\Delta = 12^{\circ} 30' 55''$   
 $D = 1^{\circ} 30'$   
 $E = 3919.72$   
 $T = 418.84$   
 $L = 536.35$   
 $E = 22.89$   
Bk: 76.74



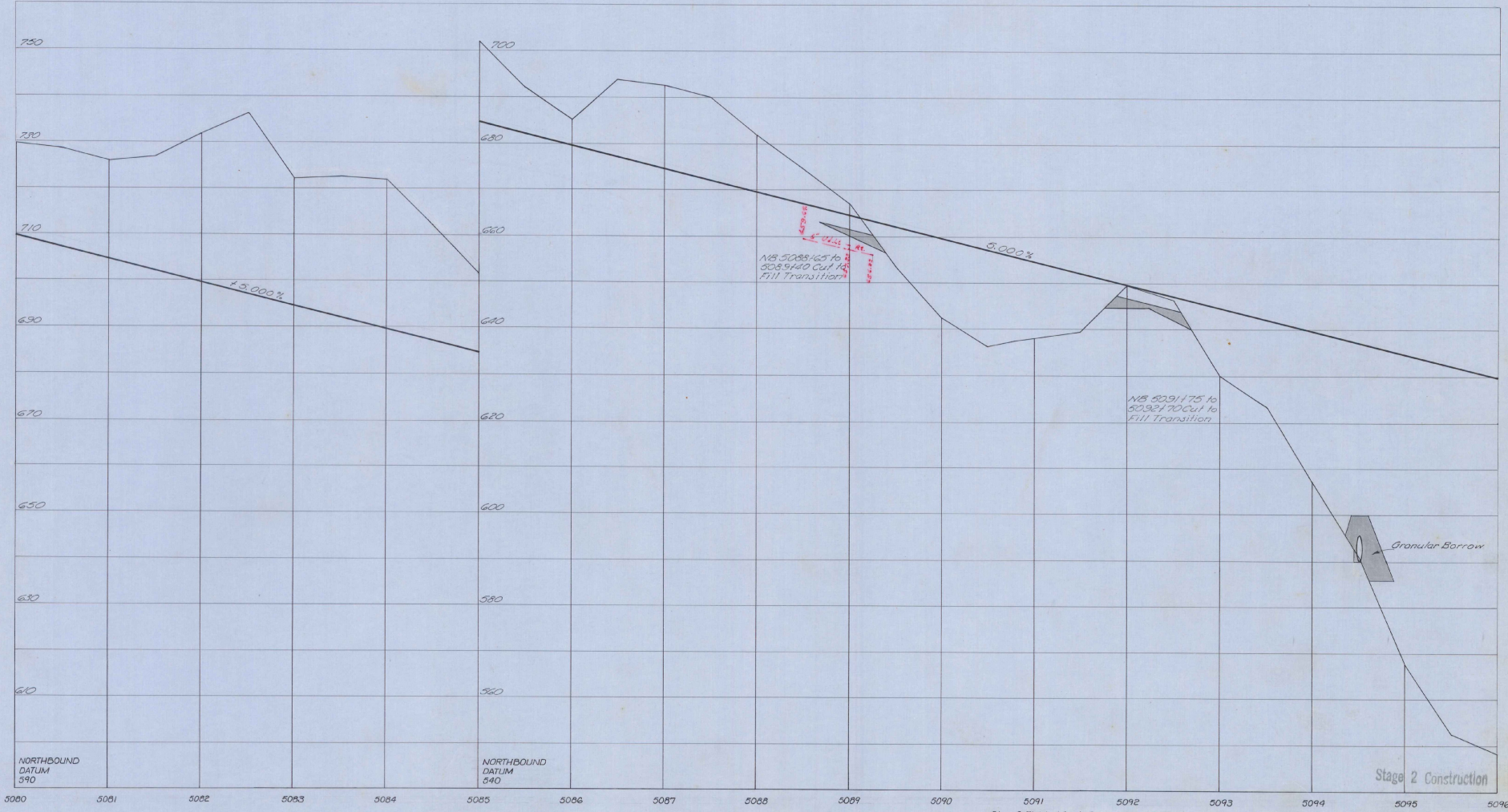
Plant Guard Rail  
NB 5089+0 Rt

Control of Access  
Complete on this Street



STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**  
McFarland - Johnson  
CONSULTING ENGINEERS

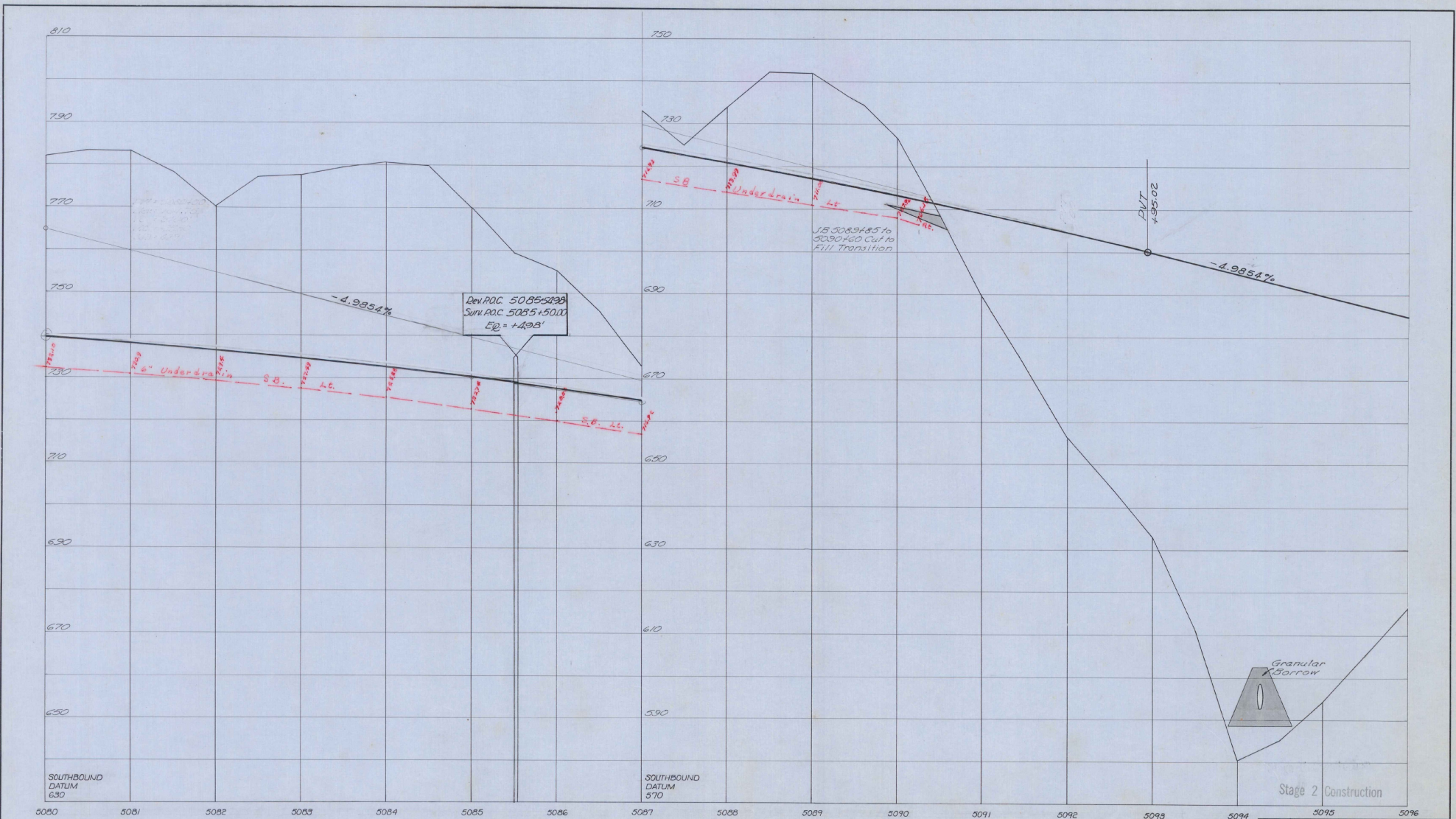
DESIGNED BY: F.A. [Signature] CHECKED BY: D.E.W.  
DRAWN BY: E.E. DATE: 8-1-87  
PROJECT No: 1-91-2(10) SHEET 74 OF 868  
CONTRACT No: SHEET 59 OF 117 SHEETS



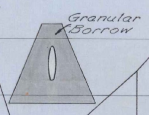
Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2'-3") Below Stage 3 Finished Grade

PROFILE SCALE  
 HORIZ. ← FEET →  
 30  
 10  
 VERT. ↑ FEET ↓

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD CONSULTING ENGINEERS	
DESIGNED BY: F. J. JOHNSON	CHECKED BY: D. E. W.
TRACED BY: E. J. JOHNSON	DATE: 8-1-65
PROJECT No: 1-9121(0)	SHEET 75 OF 868
CONTRACT No:	



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1048" (1.25") Below Stage 1 Subgrade Elev. 2.67' (2'8") Below Stage 3 Finished Grade.



Stage 2 Construction

SOUTHBOUND DATUM 630

SOUTHBOUND DATUM 670

PROFILE SCALE  
 HORIZ. 1" = 50 FEET  
 VERT. 1" = 10 FEET

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD CONSULTING ENGINEERS	
DESIGNED BY: P. J. 1912(10)	CHECKED BY: D.E.W.
TRACED BY: S.J. 2(10)	DATE: 6-11-87
PROJECT No: 1912(10)	SHEET 76 OF 868
CONTRACT No:	

Standard Steel Beam Guard Rail #4  
 40 Steel Posts - Item 545-A  
 N.B. 5096+00 - 5103+00 E.T.  
 S.B. 5096+00 - 5110+00 E.T.  
 S.B. 5096+00 - 5098+50 L.F.

Property Line Fence  
 w/ Steel Posts - Item 543 II Mod  
 N.B. 5096+0 - 510+0 E.T.  
 S.B. 5096+0 - 510+0 L.F.

Stone Fill for Slope Protection (Heavy Type) Item 511  
 N.B. 5096+0 - 5097+50 E.T.  
 Stone Fill for Slope Protection (Light Type) Item 512  
 J.B. 5096+0 - 5098+50 L.F.

Eucalyptus (Light Type) Item 515B  
 N.B. 5102+0 E.T.  
 J.B. 5105+75 - 5106+75 L.F.  
 Drilling & Blasting of Solid Rock Item 114  
 N.B. 5099+75 - 5104+75  
 S.B. 5103+25 - 5110+00

\* Treated Timber Curb  
 Item 598  
 N.B. 5096+10 - 5099+20 and 101  
 J.B. 5108+25 - 5110+10 E.T.  
 N.B. 5096+10 - 5104+75  
 85+48 Drilling & Blasting of Solid Rock Subgrade, Item 115  
 N.B. 5099+30 - 5106+40  
 S.B. 5099+05 - 5105+15  
 S.B. 5107+15 - 5109+30

Julie Matting Item 623  
 N.B. 5096+10 - 5098+50 L.F.  
 J.B. 5105+25 - 5105+75 L.F.

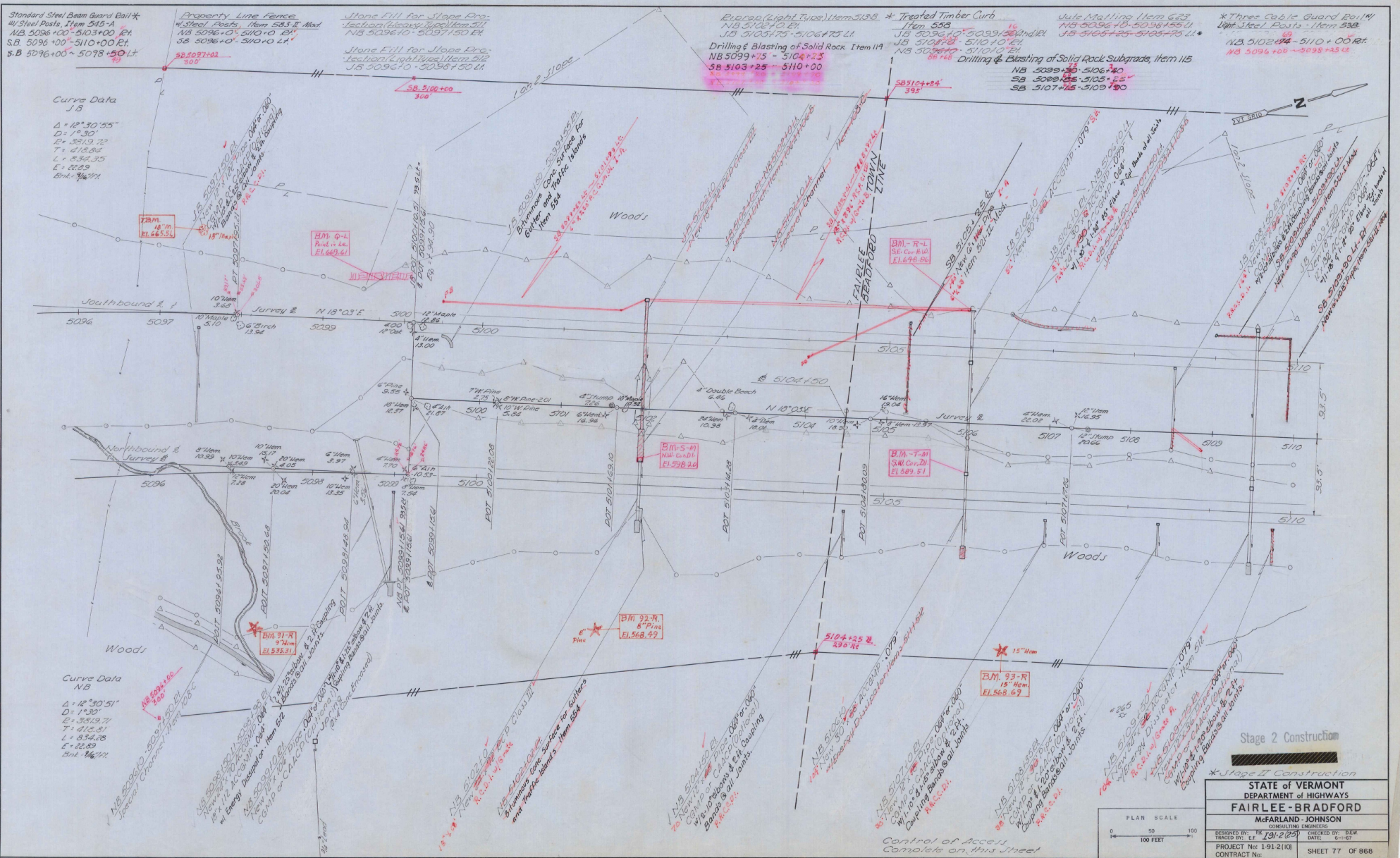
\* Three Cable Guard Rail  
 1000 Steel Posts - Item 538  
 N.B. 5102+0 - 5110+00 E.T.  
 N.B. 5096+00 - 5098+50 L.F.

Curve Data  
 J.B.  
 $\Delta = 12^{\circ}30'35"$   
 $D = 14.30'$   
 $L = 3513.72'$   
 $T = 418.84'$   
 $L = 834.35'$   
 $E = 22.89'$   
 $Back = 366.91'$

Southbound Survey #1  
 5096 5097 5098 5099 5100 5101 5102 5103 5104 5105 5106 5107 5108 5109 5110

Northbound Survey #2  
 5096 5097 5098 5099 5100 5101 5102 5103 5104 5105 5106 5107 5108 5109 5110

Curve Data  
 N.B.  
 $\Delta = 12^{\circ}30'51"$   
 $D = 14.30'$   
 $L = 3519.71'$   
 $T = 418.84'$   
 $L = 834.28'$   
 $E = 22.89'$   
 $Back = 366.91'$

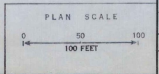


Stage 2 Construction

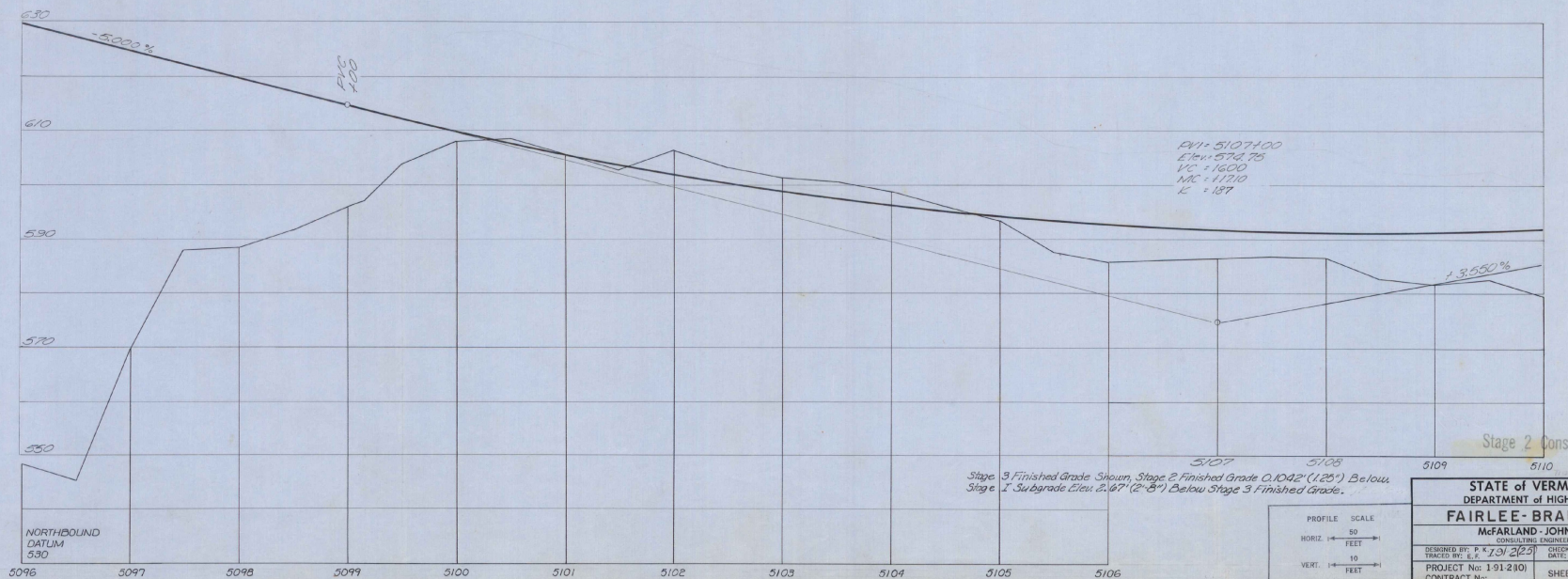
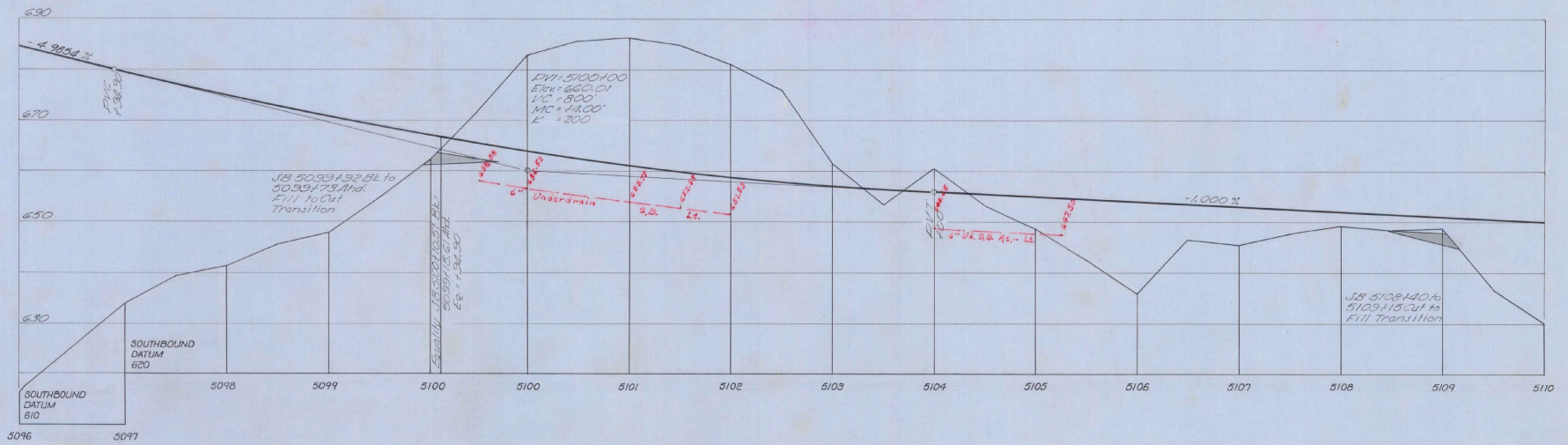
\* Stage II Construction

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: R.K. 191-2(25)	CHECKED BY: G.E.W.
TRACED BY: E.L.	DATE: 6-1-57
PROJECT No: 1-91-2(10)	SHEET 77 OF 86B
CONTRACT No:	

Sheet 62 of 117 Sheets

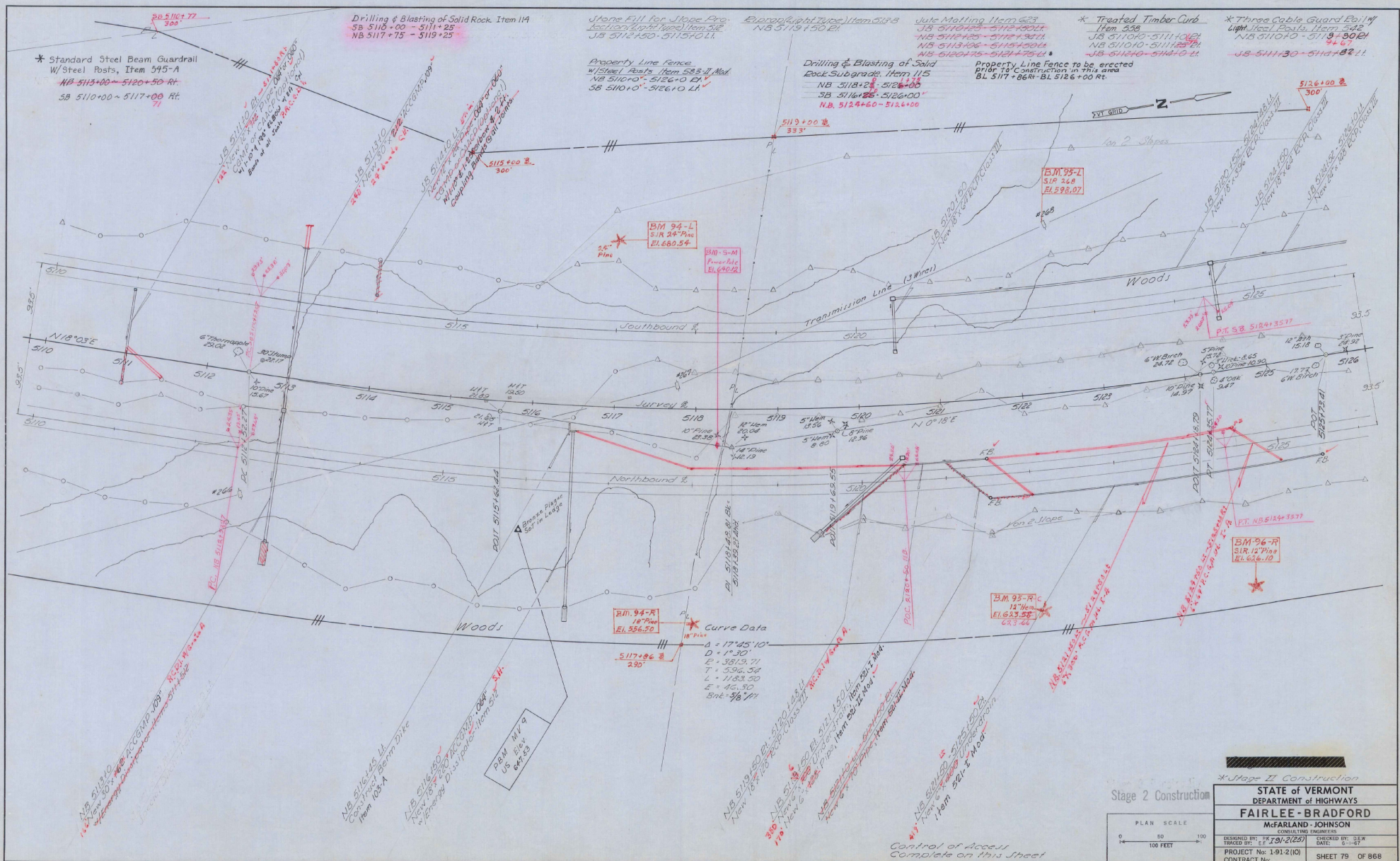


Control of Access  
 Complete on this Street



PROFILE SCALE  
 HORIZ. 1" = 40'  
 VERT. 1" = 10'

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 MCFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 DESIGNED BY: P. K. JOY [Signature] CHECKED BY: D. E. W.  
 TRACED BY: E. E. JOY [Signature] DATE: 6-1-67  
 PROJECT No: 1-91-210 SHEET 78 OF 868  
 CONTRACT No:



Stage 2 Construction

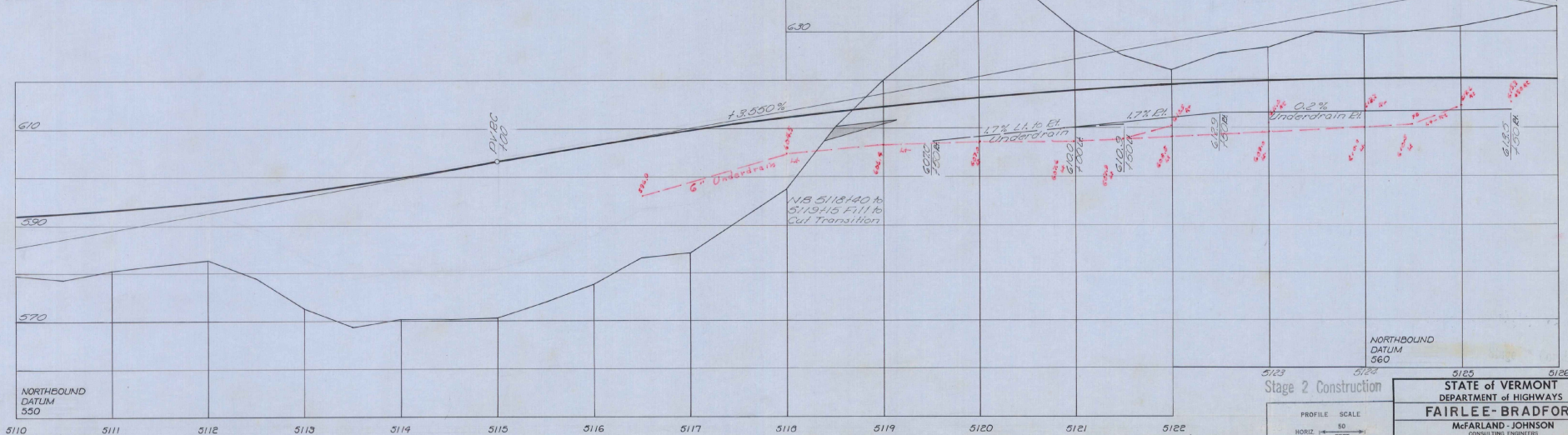
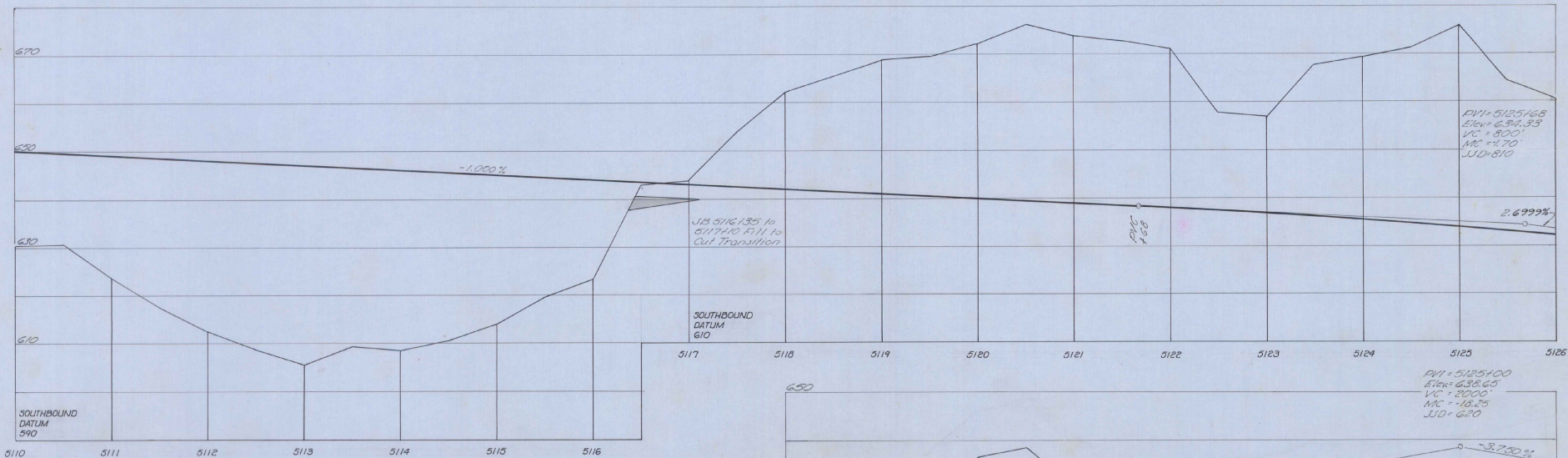
STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS

DESIGNED BY: PK 201/2(25) CHECKED BY: DEW  
 TRACED BY: EJ 4/20/21 DATE: 6-1-21  
 PROJECT No: 1-91-2(10) SHEET 79 OF 866  
 CONTRACT No:

PLAN SCALE  
 0 50 100  
 100 FEET

Control of Access  
 Complete on this Sheet

Sheet 64 of 117 Sheets



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.100% (1.25') Below Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

PROFILE SCALE  
 HORIZ. 50 FEET  
 VERT. 1" = 10 FEET

Stage 2 Construction

**STATE OF VERMONT**  
 DEPARTMENT of HIGHWAYS  
**FAIRLEE-BRADFORD**

McFarland-Johnson  
 CONSULTING ENGINEERS

DESIGNED BY: P. K. [Signature] CHECKED BY: D. E. W.  
 TRACED BY: E. F. [Signature] DATE: 6-1-67  
 PROJECT No: 1-91-2(10) CONTRACT No: SHEET 80 OF 868

Chain-Link Fence  
JB 5132+00-5142+10 LI  
71.75

Demolition and Disposal  
of Building - Item 286  
JB 5130+10 LI

Property Line Fence to be erected  
prior to Construction in this area.  
BL 5126+00 Rt. - BL 5132+82 Rt.

Grouted Rubble Paving  
Item 413-B  
JB 5135+45-5138+40 Rt.  
JB 5136+10 Rt.  
JB 5136+50 Lt.

Stage I Fill for Slope Pro-  
tection (Light Slope) Item 512  
JB 5132+10-5134+75 Lt.  
JB 5135+25-5138+55 Rt.

\* 270' Eveready Light Pipe Item 513-A  
JB 5131+50-5132+10 Lt.  
JB 5133+10-5133+55 Lt.

\* Treated Timber Curb  
Item 556-B  
JB 5132+10-5142+10 Rt.  
JB 5132+30-5142+10 Lt.  
NB 5133+50-5142+10 Lt.  
NB 5135+50-5142+10 Rt.

Topsail Stockpiled or  
Available  
NB 5140+00: Rt

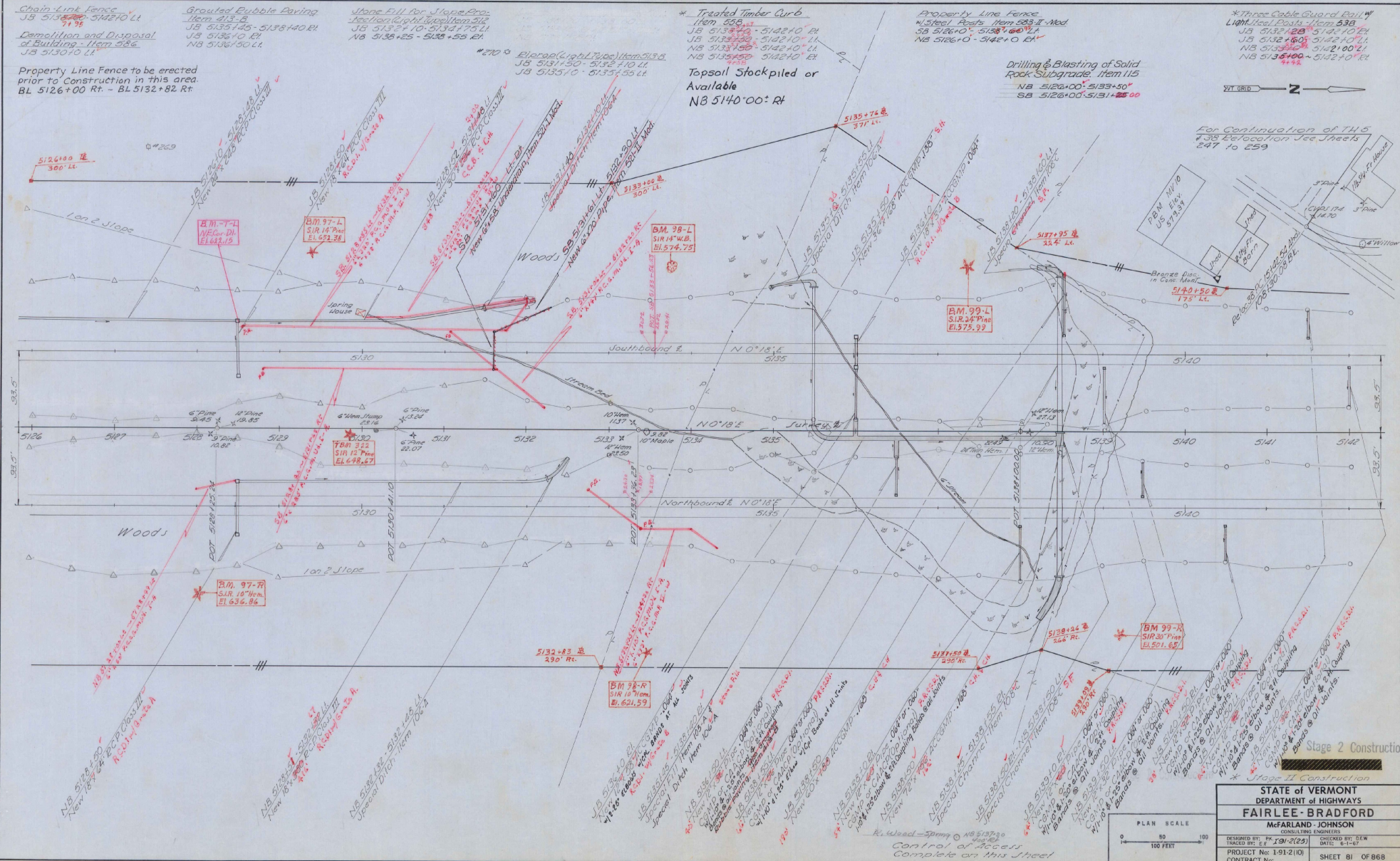
Property Line Fence  
w/ Steel Posts - Item 553-A - Mod  
SB 5126+0 - 5138+00 Lt.  
NB 5126+0 - 5142+10 Rt.

Drilling & Blasting of Solid  
Rock Subgrade, Item 115  
NB 5126+00-5133+50\*  
SB 5126+00-5131+25 00

\* Three Cable Guard Rail  
LIGHT Steel Posts - Item 538  
JB 5132+20-5142+10 Rt.  
JB 5132+60-5142+10 Lt.  
NB 5132+50-5142+10 Lt.  
NB 5135+00-5142+10 Rt.

VT GRID  $\rightarrow$  **Z**

For Continuation of 145  
#38 Elevation See Sheets  
247 to 259

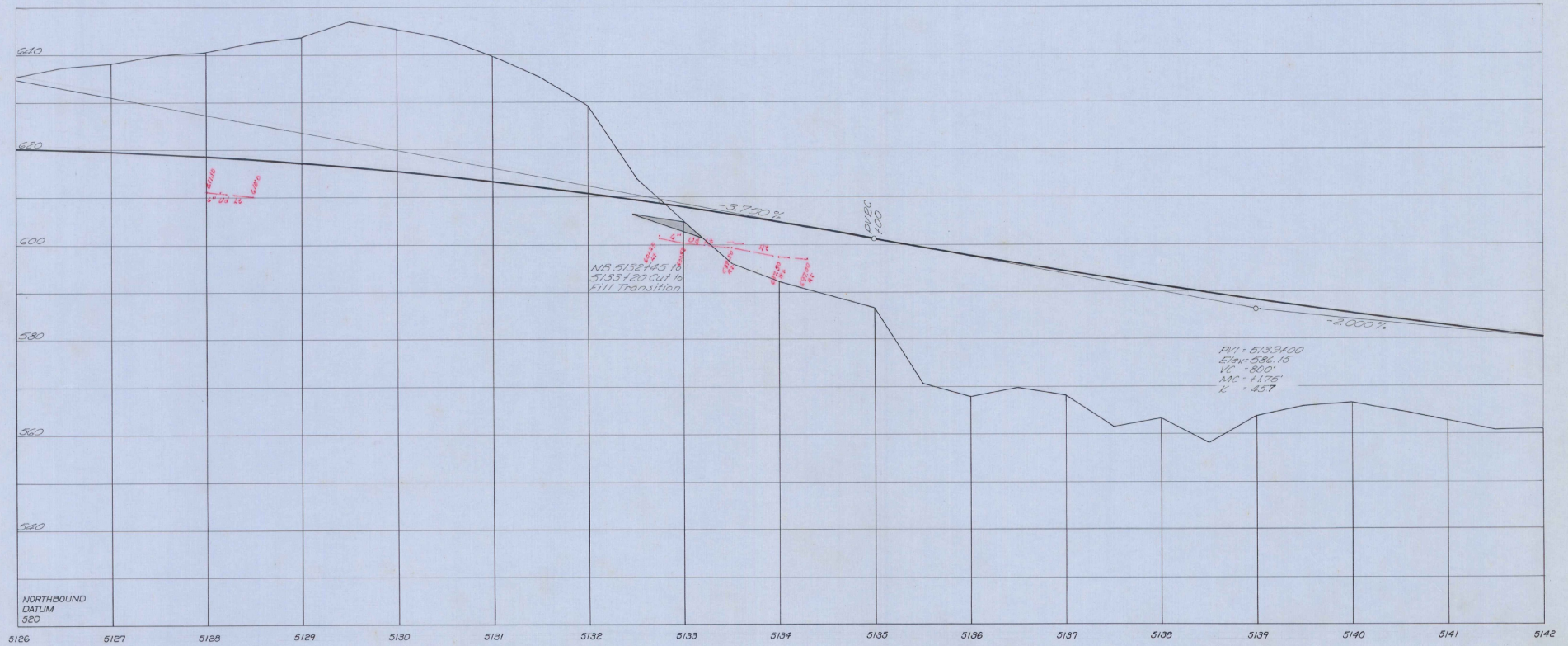


Stage 2 Construction

STATE OF VERMONT  
DEPARTMENT of HIGHWAYS  
**FAIRLEE - BRADFORD**  
McFARLAND - JOHNSON  
CONSULTING ENGINEERS

DESIGNED BY: P. J. J. 1/21/23 CHECKED BY: E. W.  
TRACER BY: E. E. DATE: 8-1-42

PROJECT No: 1-912(10) SHEET 81 OF 868  
CONTRACT No:

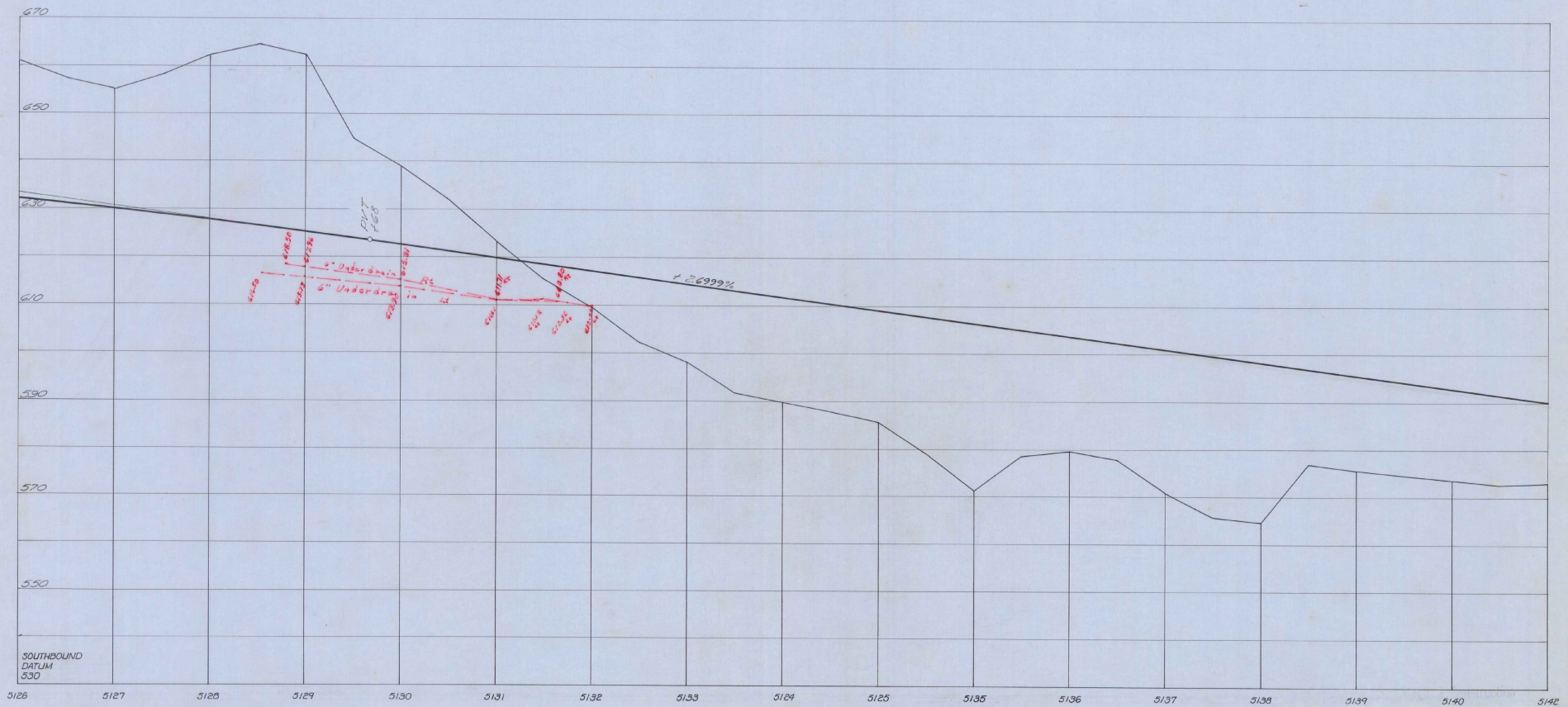


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (E-E) Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE	1" = 10'
HORIZ. SCALE	1" = 40'
VERT. SCALE	1" = 10'

STATE OF VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P.K. [191-2125]	CHECKED BY: D.E.W.
PROJECT No: 191.2(10)	DATE: 6-1-67
CONTRACT No:	SHEET 82 OF 868

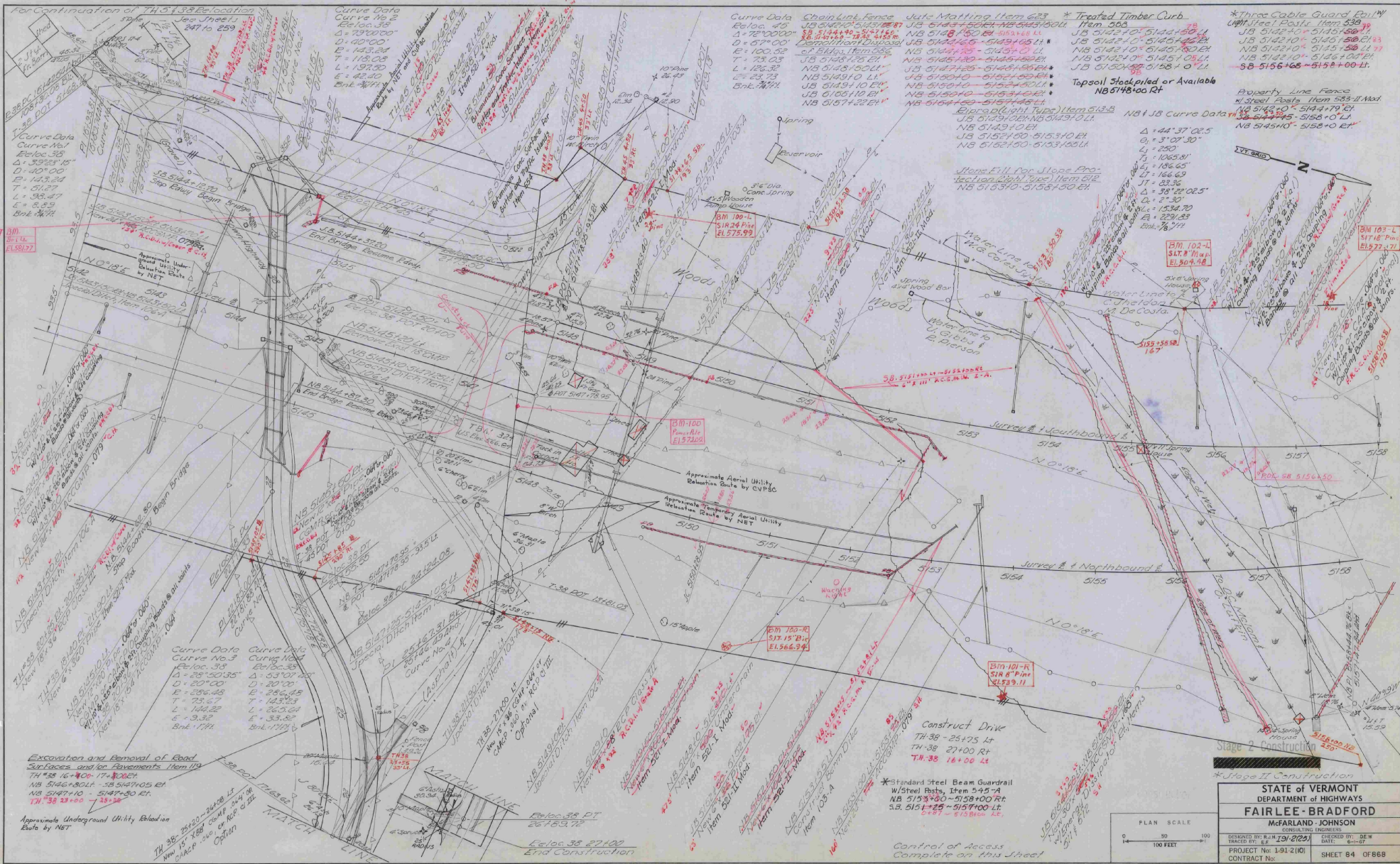


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.100% (1.25") Below  
 Stage 1 Subgrade Elev 2.67 (2'-5") Below Stage 3 Finished Grade

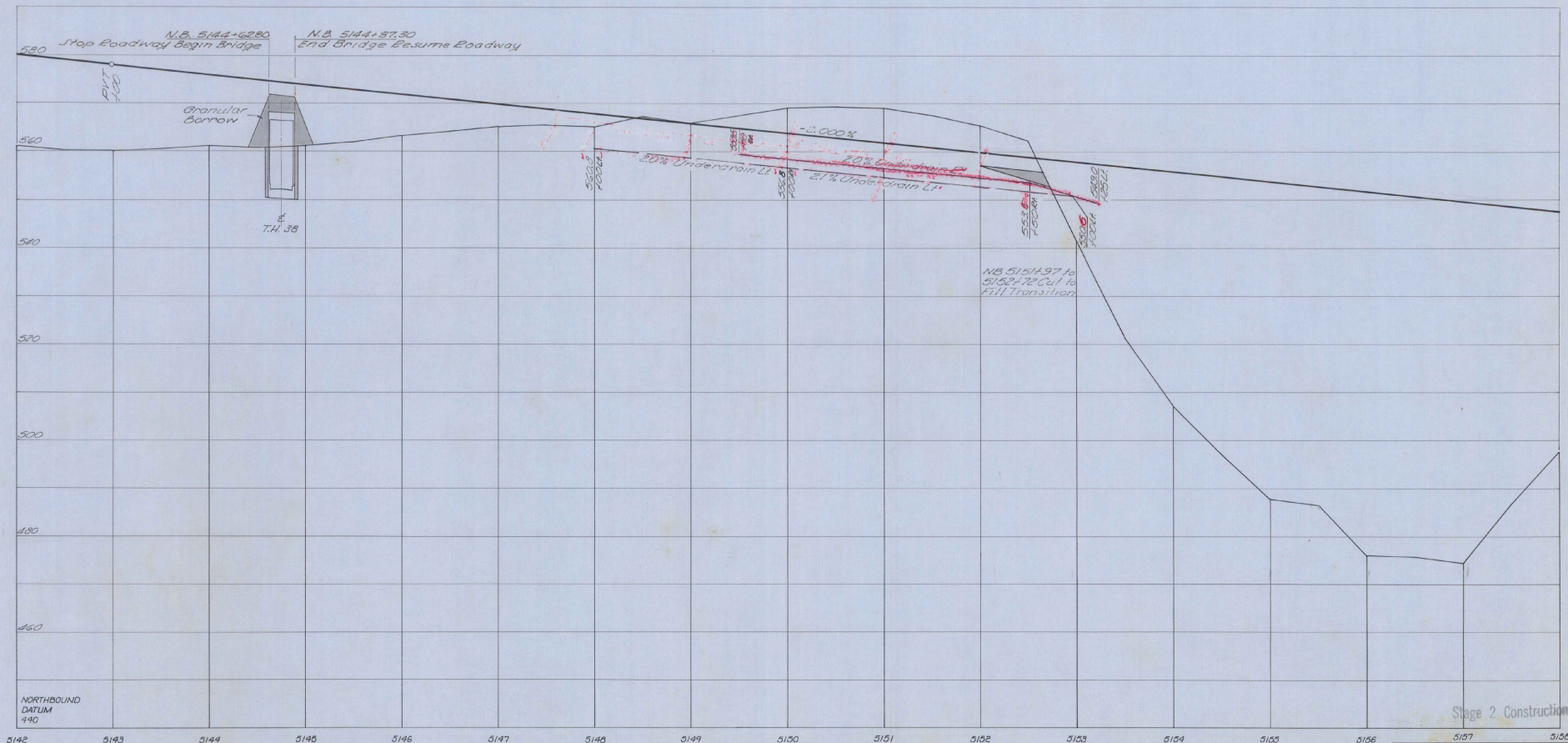
Stage 2 Construction

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD CONSULTING ENGINEERS	
DESIGNED BY: J. K. 191-2(25)	CHECKED BY: D. E. W.
TRACED BY: L. J.	DATE: 8-1-67
PROJECT No: 191-2(10)	SHEET 83 OF 868
CONTRACT No:	

PROFILE SCALE	50
HORIZ. SCALE	1" = 10'
VERT. SCALE	1" = 10'



**STATE OF VERMONT**  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 DESIGNED BY: R.M. (JW) (2/23/81)  
 TRACED BY: E.E. (JW) (2/23/81)  
 DATE: 6-81  
 PROJECT No: 191-2100  
 CONTRACT No: SHEET 84 OF 868  
 Sheet 69 of 117 sheets



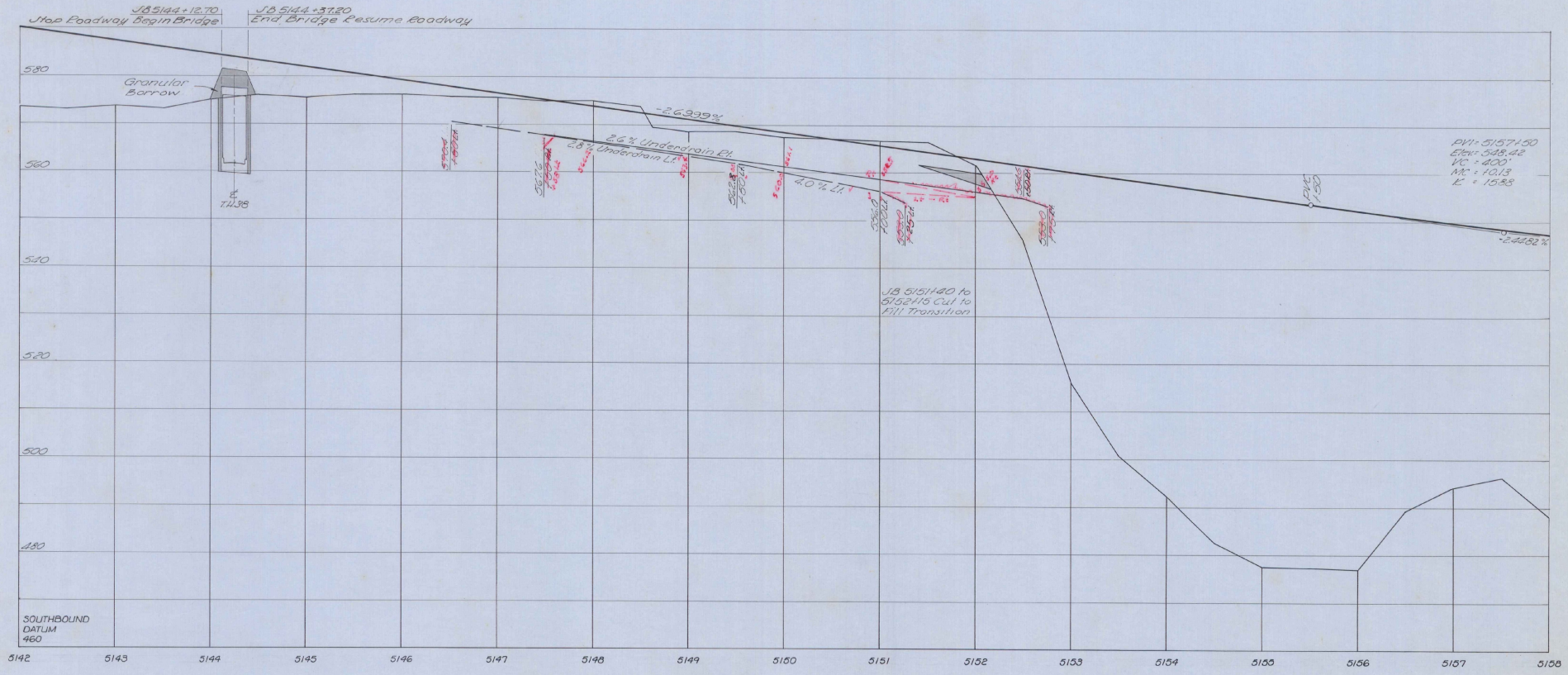
NORTHBOUND DATUM 490

5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2' 5") Below Stage 3 Finished Grade

PROFILE SCALE  
 HORIZ. 50 FEET  
 VERT. 10 FEET

STATE of VERMONT DEPARTMENT of HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: R. J. J.	CHECKED BY: D. E. W.
TRACED BY: E. P. 191-2(25)	DATE: 6-1-62
PROJECT No: 1-91-2(10)	SHEET 85 OF 868
CONTRACT No:	

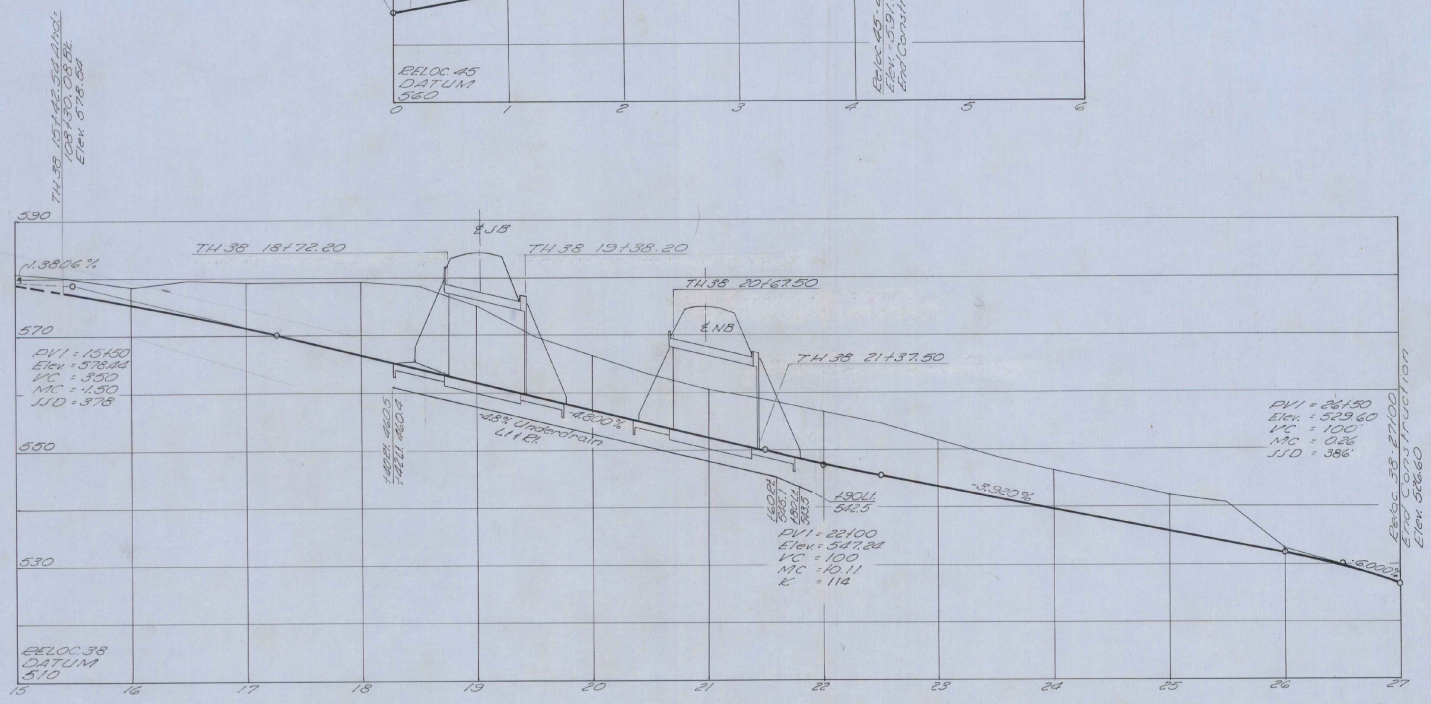
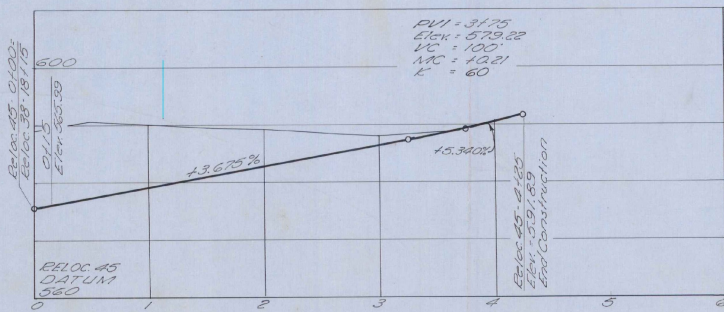


Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042" (1.25") Below  
 Stage 1 Subgrade Elev. 2.67" (2'-3") Below Stage 3 Finished Grade

Stage 2 Construction

PROFILE SCALE	50
HORIZ. SCALE	1" = 50'
VERT. SCALE	1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE-BRADFORD	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: R.J.	CHECKED BY: D.E.W.
TRACED BY: E.L. J.B. (2/85)	DATE: 8-87
PROJECT No: 1-91-2(10)	CONTRACT No:
SHEET 86 OF 86B	



Elev. TH 38 & Elev. TH 45

PROFILE SCALE  
 HORIZ. 1" = 50 FEET  
 VERT. 1" = 10 FEET

STATE of VERMONT  
 DEPARTMENT of HIGHWAYS  
**FAIRLEE-BRADFORD**  
 CONSULTING ENGINEERS  
 McFARLAND-JOHNSON  
 DESIGNED BY: P. K. [Signature] CHECKED BY: D. L. W.  
 DRAWN BY: L. J. [Signature] DATE: 6-1-67  
 PROJECT No: 191-21(0) CONTRACT No: SHEET 87 OF 868

\*Standard Steel Beam Girder  
W/Steel Posts Item 535-A  
NB 5158 +00 - 5160+50 Ft.  
SB 5174 +00 - 5176+50 Ft.  
Property Line Fence to be erected  
prior to construction in this area.  
Ramp A 1+03 - 3+51 Rt.

Property Line Fence  
W/Steel Posts Item 535-B Mod  
NB 5158 +0\* Rte 25 - 78+35' E  
SB 5174 +0\* - 5174+0 L\*

Wedge Fill for Slopes Prior  
to Section Light Rail Item 532  
Ramp A 15+35 - 16+50 Lt.

Elcage Light Rail Item 538  
JB 5160+0 - 5160+30 Lt.

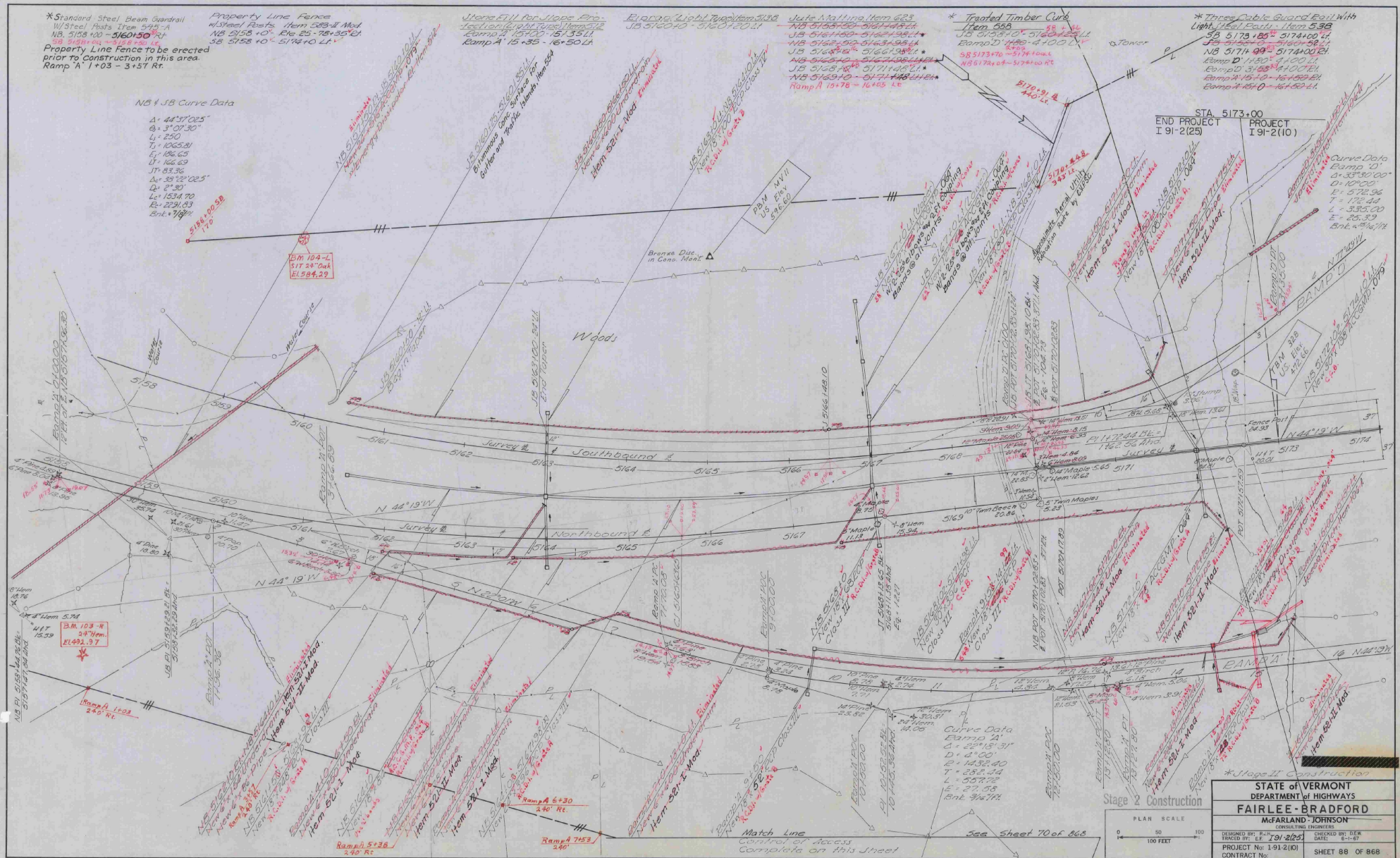
Jute Matting Item 623  
NB 5163+00 - 5164+45 Lt.  
JB 5164+50 - 5162+35 Lt.  
NB 5162+00 - 5163+35 Lt.  
JB 5164+50 - 5164+58 Lt.\*  
NB 5164+0 - 5164+58 Lt.\*  
JB 5163+78 - 5171+45 Lt.\*  
NB 5163+0 - 5171+45 Lt.\*  
Ramp A 15+78 - 16+55 Lt.

\*Treated Timber Curb  
Item 555  
JB 5159+0 - 5160+25 Lt.  
Ramp D 1400 - 4+00 Lt.\*  
SB 5173+78 - 5174+00 Lt.  
NB 5173+00 - 5174+00 Lt.

\*Three Cable Guard Rail With  
Light Steel Posts Item 539  
SB 5173 +00 - 5174+00 Lt.  
Ramp A 15+78 - 16+55 Lt.  
NB 5171 +00 - 5174+00 Lt.  
Ramp D 1400 - 4+00 Lt.  
Ramp A 15+78 - 16+55 Lt.  
Ramp A 15+78 - 16+55 Lt.

NB + SB Curve Data

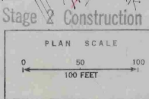
$\Delta = 44^\circ 12' 02.5"$   
 $\theta = 3^\circ 07' 30"$   
 $L = 250$   
 $T = 106.58$   
 $C = 106.63$   
 $IT = 106.63$   
 $IT = 83.36$   
 $\Delta = 39^\circ 22' 02.5"$   
 $L = 210$   
 $T = 103.470$   
 $C = 2291.83$   
 $R = 2291.83$   
 $R = 2291.83$



END PROJECT I 91-2(25)  
PROJECT I 91-2(10)  
STA. 5173+00

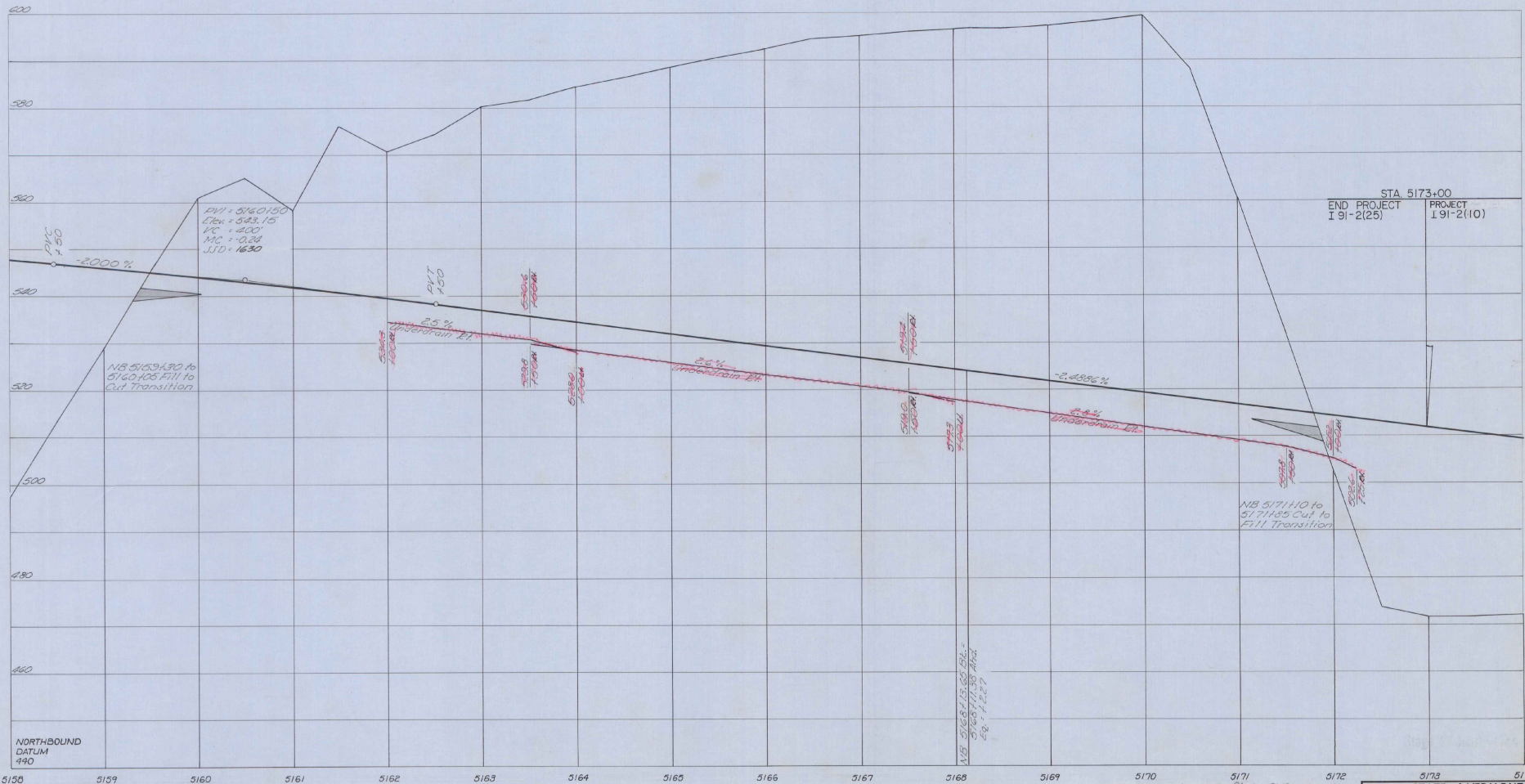
Curve Data  
Ramp D  
D = 3300.00  
L = 100.00  
E = 572.96  
T = 172.44  
L = 335.00  
E = 25.39  
R = 25.39  
R = 25.39

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**FAIRLEE - BRADFORD**  
McFARLAND-JOHNSON  
CONSULTING ENGINEERS  
DESIGNED BY: B-J  
CHECKED BY: JEM  
PROJECT No: 1-91-2(10)  
CONTRACT No: SHEET 88 OF 868



Match Line  
Construction of Access  
Complete on this Sheet

See Sheet 70 of 868



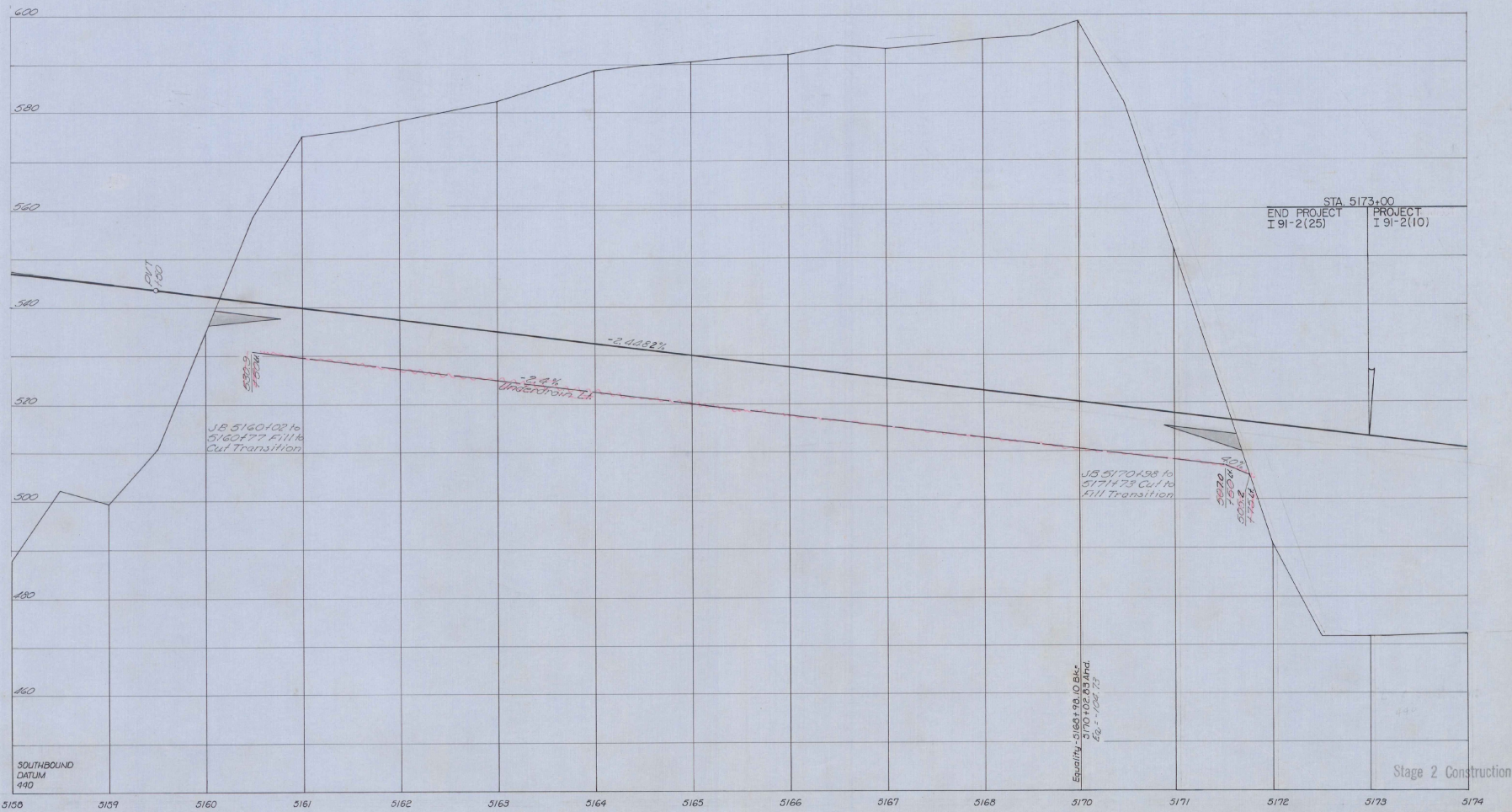
STA 5173.00  
 END PROJECT I 91-2(25) PROJECT I 91-2(10)

NORTHBOUND  
 DATUM  
 990

Stage 3 Finished Grade Shown, Stage  
 2 Finished Grade 0.1042' (1.25") Below.  
 Stage 1 Subgrade Elev. 2.61' (2'-8") Below  
 Stage 3 Finishes Grade

PROFILE SCALE 1"=10'  
 HORIZ. SCALE 1"=50'  
 VERT. SCALE 1"=10'

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
<b>FAIRLEE-BRADFORD</b>	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: B. J. J.	CHECKED BY: D. E. W.
DRAWN BY: E. F. J. 2/25	DATE: 6-1-67
PROJECT No: 191-2(10)	SHEET 89 OF 868
CONTRACT No:	



Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.032' (1.25%) Below. Stage 1 Subgrade Elev. 2.60' (2'-8") Below Stage 3 Finished Grade.

PROFILE SCALE  
HORIZ. 1" = 100'  
VERT. 1" = 10'

STATE of VERMONT DEPARTMENT of HIGHWAYS	
FAIRLEE - BRADFORD	
McFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: R. J. H.	CHECKED BY: D. E. W.
DRAWN BY: E. J. B. 8/25	DATE: 6-1-57
PROJECT No: 191-2(10)	CONTRACT No:
SHEET 90	OF 868

**\* Three Cable Guard Rail**  
 Item 538  
 NO 5174+00-5175+00 LI  
 SB 5174+00-5174+05 LI

**\* Treated Timber Curb**  
 Item 558  
 D= 4+0 7+00 LI  
 D= 10+0 12+25 LI

**Granite Slope Easing**  
 Item 338  
 Etc 25 60' 0" - 62' 15"  
 Etc 25 62' 15" - 70' 13"  
 Etc 25 70' 13" - 73' 0"

**Curve Data**  
 Ramp D  
 S: 1392.00  
 D: 19'00"  
 E: 321.56  
 T: 219.30  
 L: 373.21  
 E: 71.31  
 Bnk: 8' 11"

**Curve Data**  
 Etc Loc 25  
 S: 3013.35  
 D: 21'30"  
 E: 2291.83  
 T: 717.36  
 L: 1352.35  
 E: 105.33  
 Bnk: 12' 11"

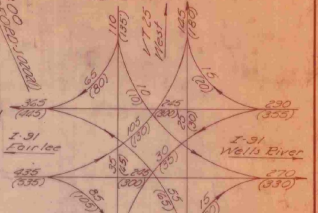
**Curve Data**  
 NB 5176+00 E1 E2  
 S: 5176+00 E1 E2  
 NB 5176+00 E1 E2  
 NB 5176+00 E1 E2

**Three Cable Guard Rail**  
 Item 538  
 Etc 25 5170-5179 LI  
 Etc 25 5170-5179 LI  
 Etc 25 5170-5179 LI  
 Etc 25 5170-5179 LI

**Demolition Disposal of Buildings**  
 Item 586  
 JB 5180+40 LI  
 JB 5180+45 LI  
 JB 5180+90 LI  
 JB 5181+0 LI  
 JB 5181+50 LI

**RAMP 'D'** 12+43.40  
 END PROJECT  
 I 91-2(25)

**Standard Steel Beam Guard Rail**  
 w/ Steel Posts, Item 540-A  
 Etc 25 58+00 E1 E2  
 New 58+00-58+00 MP



**RAMP 'AA'** 17+00.27  
 END PROJECT  
 I 91-2(25)

**Curve Data**  
 Ramp AA  
 S: 1392.00  
 D: 19'00"  
 E: 321.56  
 T: 219.30  
 L: 373.21  
 E: 71.31  
 Bnk: 8' 11"

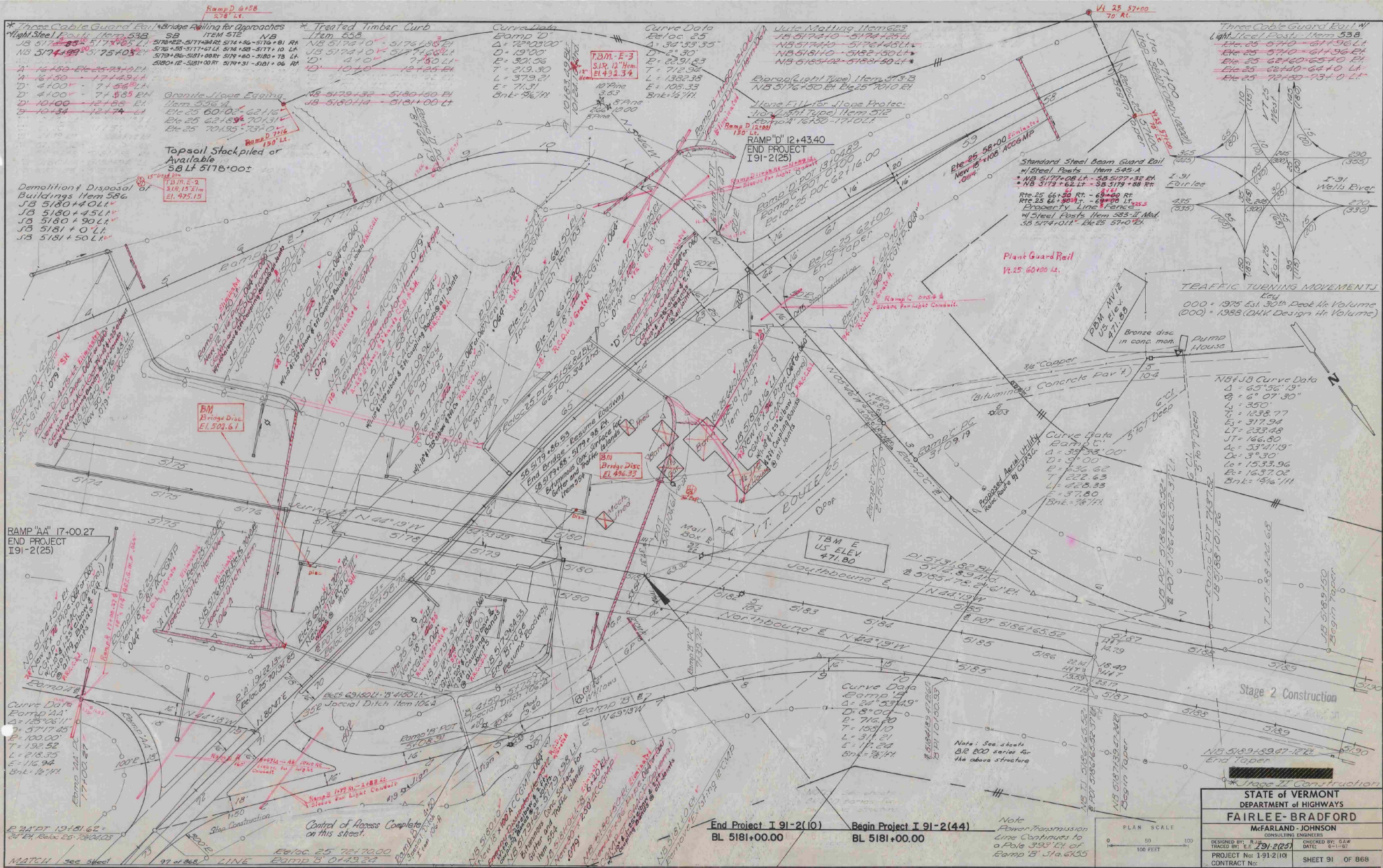
End Project I 91-2(10) BL 5181+00.00  
 Begin Project I 91-2(44) BL 5181+00.00

Note: See sheets 52-503 series for the above structure  
 Power Transmission Line Continues to Pole 5183 E1 of Ramp B, Sta 6100

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 DRAWING NO. 191-1031  
 SHEET NO. 21-21  
 PROJECT NO. 191-1031



MATCH see sheet



**TRAFFIC TURNING MOVEMENT**  
 000 = 1975 Est. 30th Peak Hr. Volume  
 (00) = 1988 (D.H.K. Design Hr. Volume)

**NB/JS Curve Data**  
 A = 65°36'19"  
 B = 6°07'30"  
 C = 1238.77  
 D = 317.94  
 E = 233.48  
 F = 166.80  
 G = 374°19"  
 H = 9°30"  
 I = 1533.96  
 J = 1637.02  
 K = 746.71

**Curve Data**  
 A = 39°38'00"  
 B = 51°00"  
 C = 236.62  
 D = 222.62  
 E = 226.33  
 F = 37.80  
 G = 78.71

**Curve Data**  
 A = 24°53'49"  
 B = 8°00"  
 C = 716.80  
 D = 158.19  
 E = 31.21  
 F = 17.24  
 G = 78.71

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 DESIGNED BY: E.E. 191-2(25)  
 TRACED BY: E.E. 191-2(25)  
 PROJECT No: 3-91-2(10)  
 CONTRACT No: SHEET 91 OF 868

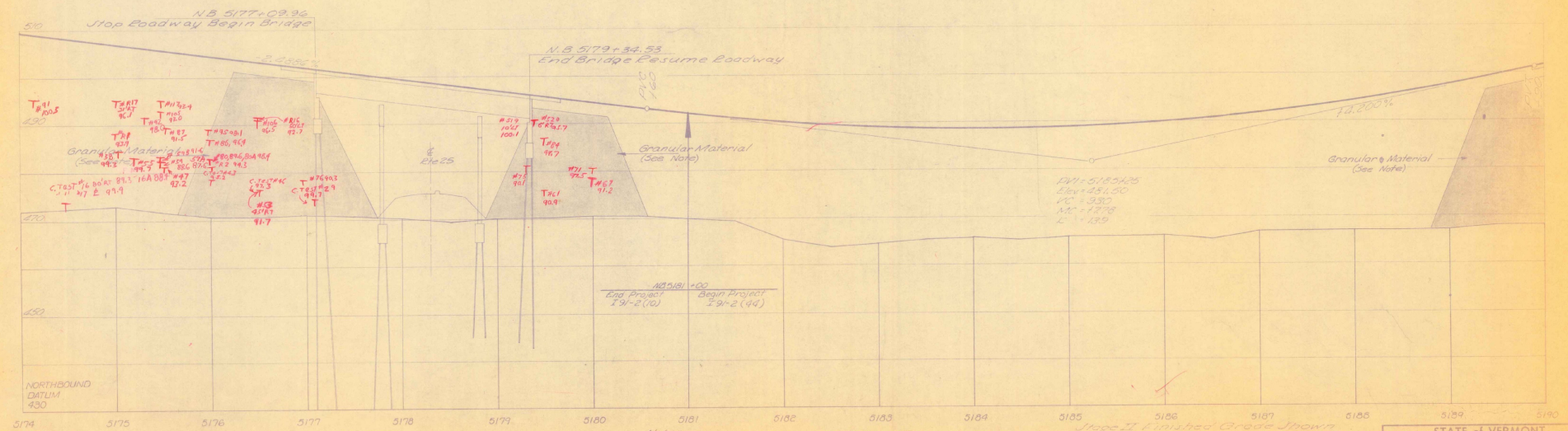
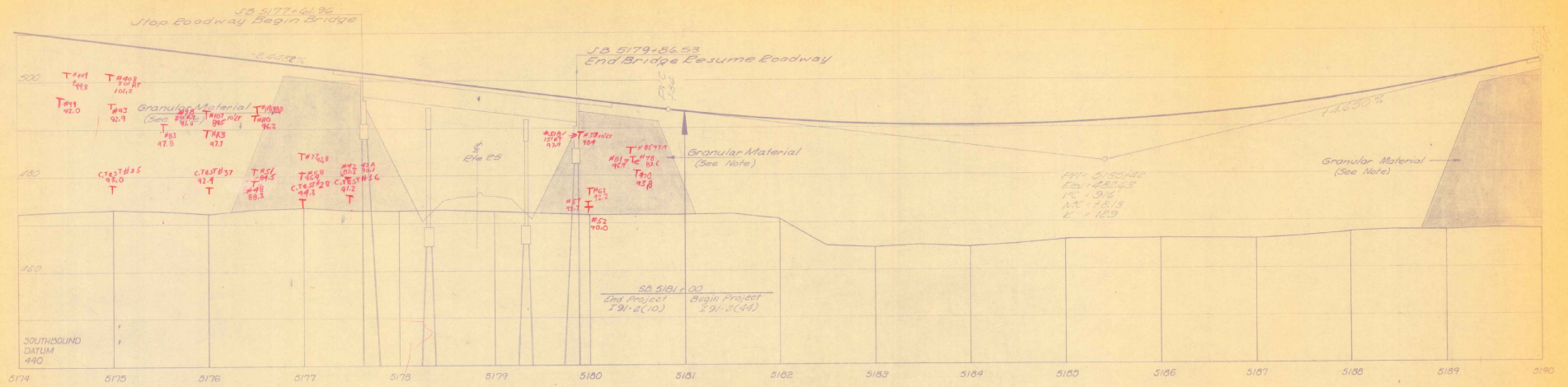


Note: See sheets 91-820 series for  
 Pole 393' E of  
 Eamp 15' 316.6155

End Project I 91-2(10) BL 5181+00.00  
 Begin Project I 91-2(44) BL 5181+00.00

MATCH see sheet

LINE RAMP B 0149.29

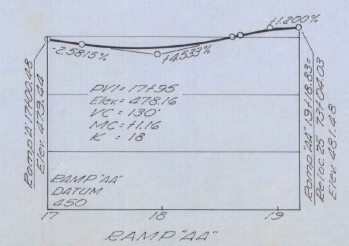
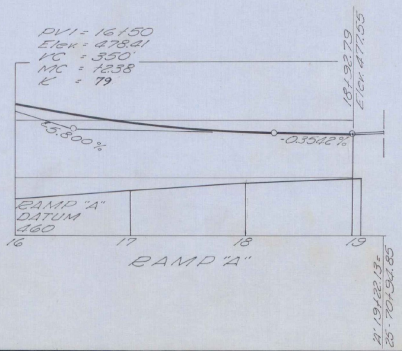
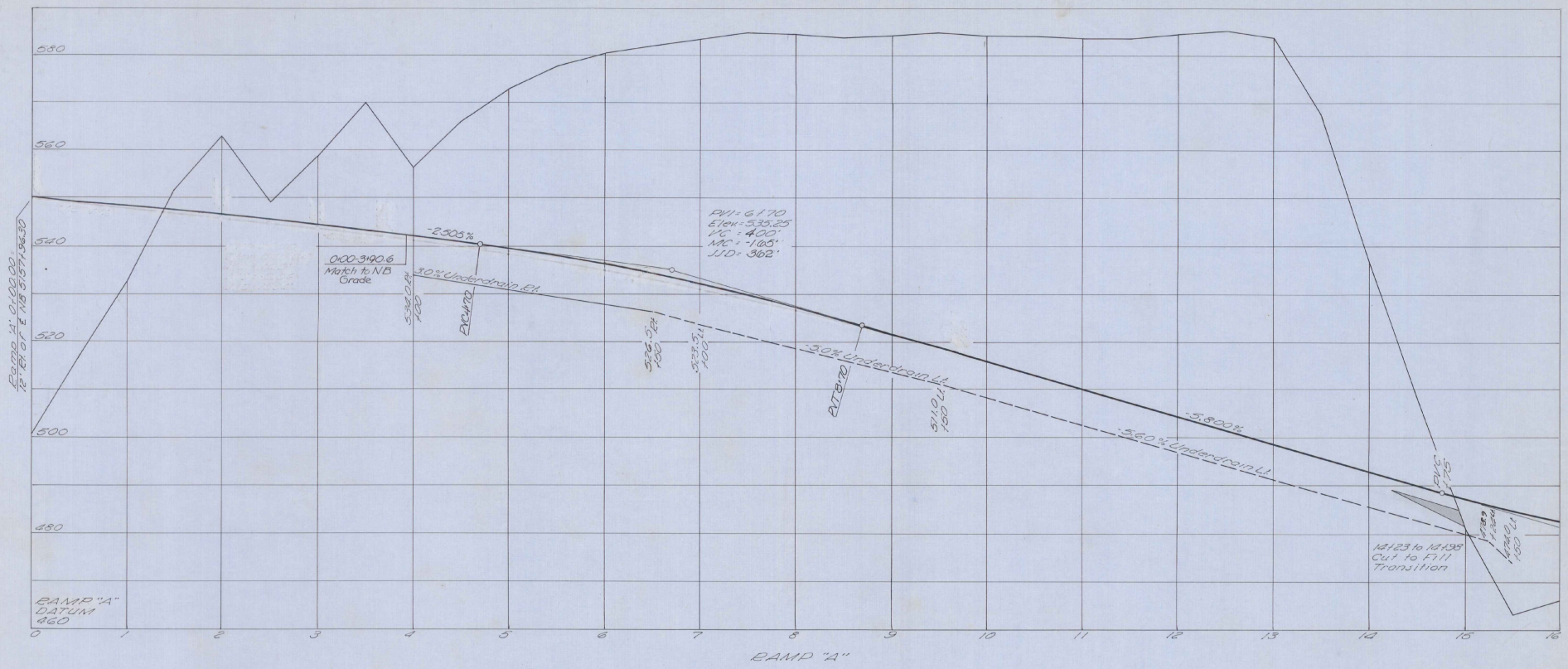


Note:  
 Granular Material obtained from excavation encountered on project meeting the requirements of Granular Borrow, Item 105, shall be used within the limits designated.

Stage II finished Grade shown  
 Stage I Unimproved Elev. 20' (2.5) Below

PROFILE SCALE	1" = 10'
HORIZONTAL SCALE	1" = 40'
DATE	191-2(10)
PROJECT NO.	191-2(10)
CONTRACT NO.	191-2(10)
SHEET NO.	106
TOTAL SHEETS	106

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 100 STATE STREET  
 MONTPELIER, VERMONT 05602  
 PROJECT NO. 191-2(10)  
 SHEET NO. 106 OF 106



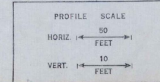
Stage 2 Construction  
 Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below  
 Stage 1 Subgrade Elev. 2.67' (2'-6") Below Stage 3 Finished Grade

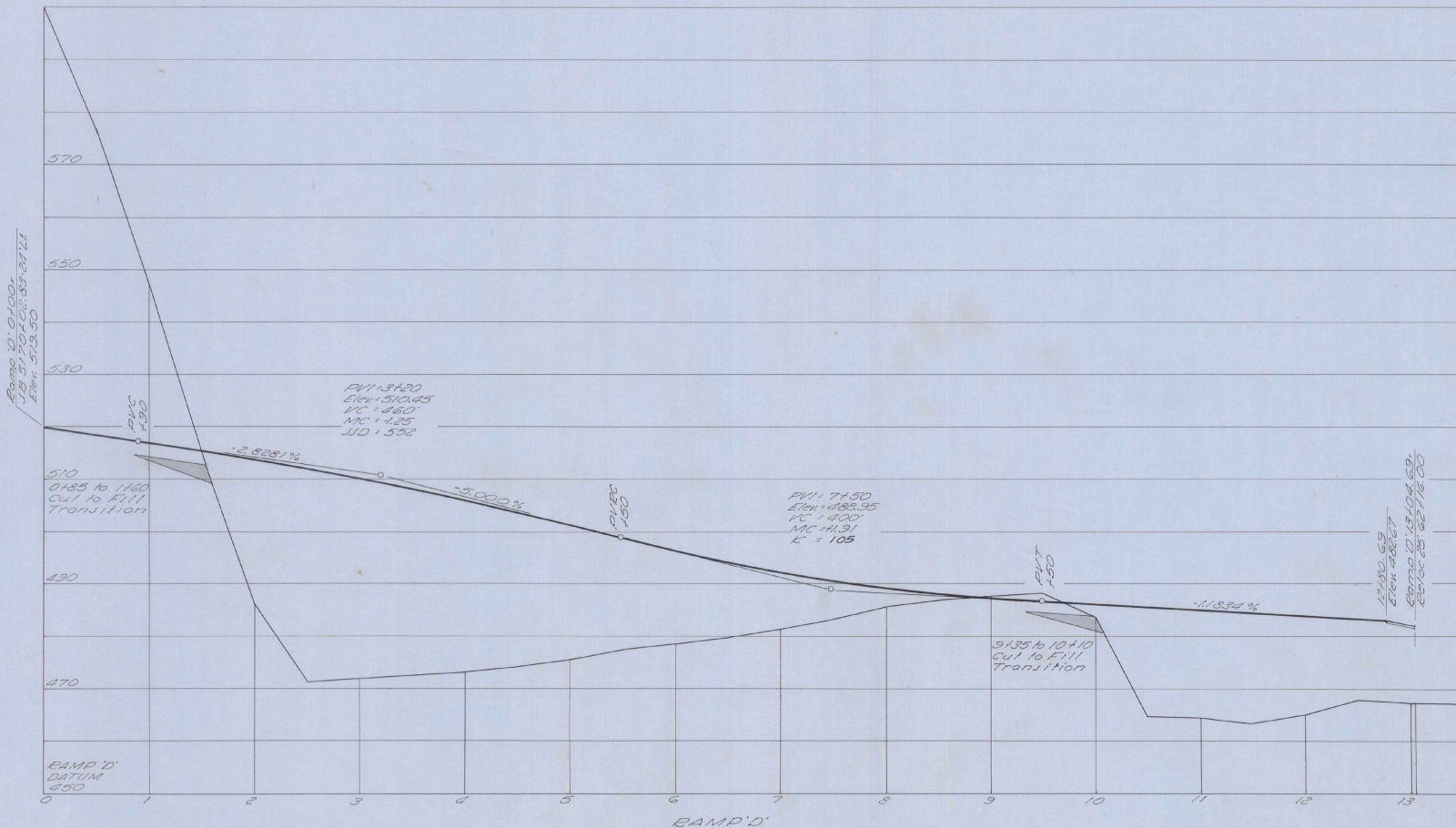
STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**FAIRLEE-BRADFORD**  
 McFARLAND-JOHNSON  
 CONSULTING ENGINEERS

DESIGNED BY: P. K. TRACER BY: E. J. DATE: 8-1-57  
 CHECKED BY: D. E. W. DATE: 8-1-57

PROJECT No. 79-2(2) SHEET 93 OF 868

Sheet 76 of 117 Sheets





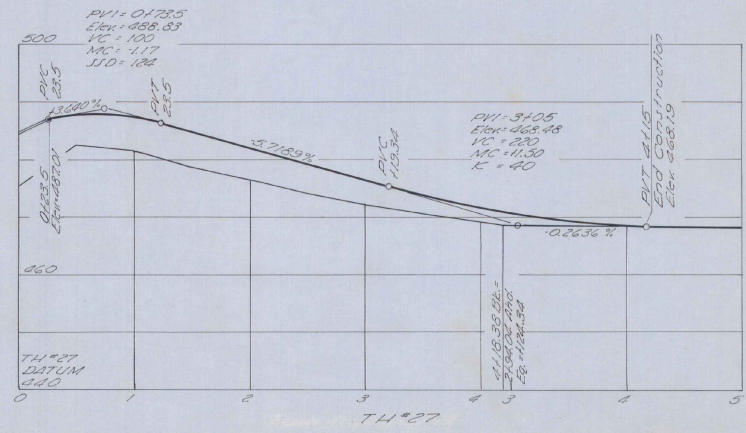
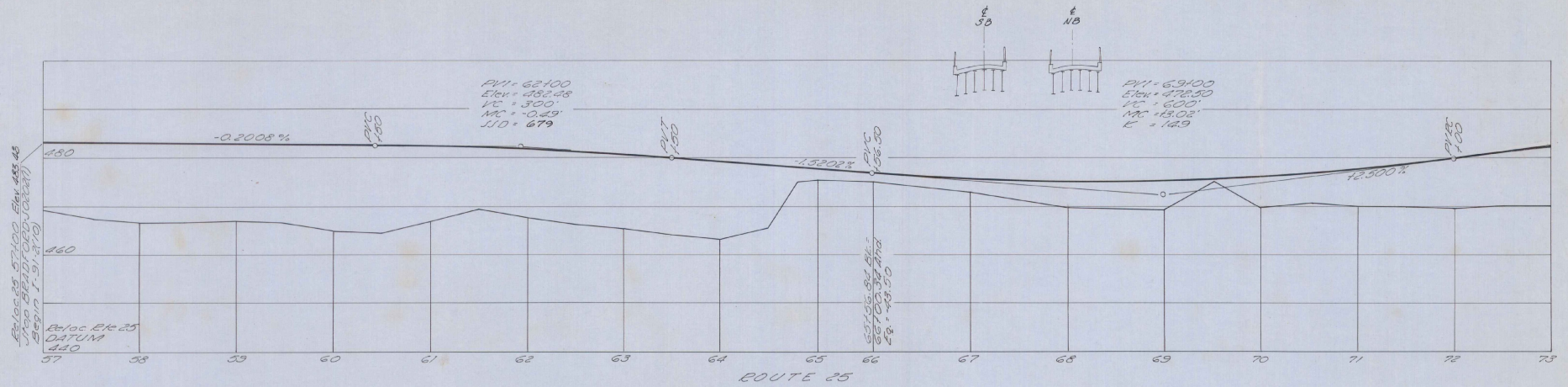
Stage 2 Construction

Stage 3 Finished Grade Shown, Stage 2 Finished Grade 0.1042' (1.25") Below, Stage 1 Subgrade Elev. 2.67' (2'-8") Below Stage 3 Finished Grade.

Ramp 'D'

STATE OF VERMONT DEPARTMENT OF HIGHWAYS <b>FAIRLEE-BRADFORD</b>	
McFARLAND-JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: P. K. TRACED BY: C.E.	CHECKED BY: S. E. W. DATE: 8-1-87
PROJECT NO. 191-2(25)	SHEET 94 OF 868

PROFILE SCALE  
 50  
 HORIZ. FEET  
 10  
 VERT. FEET



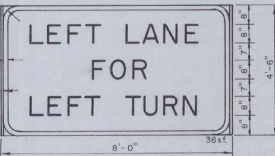
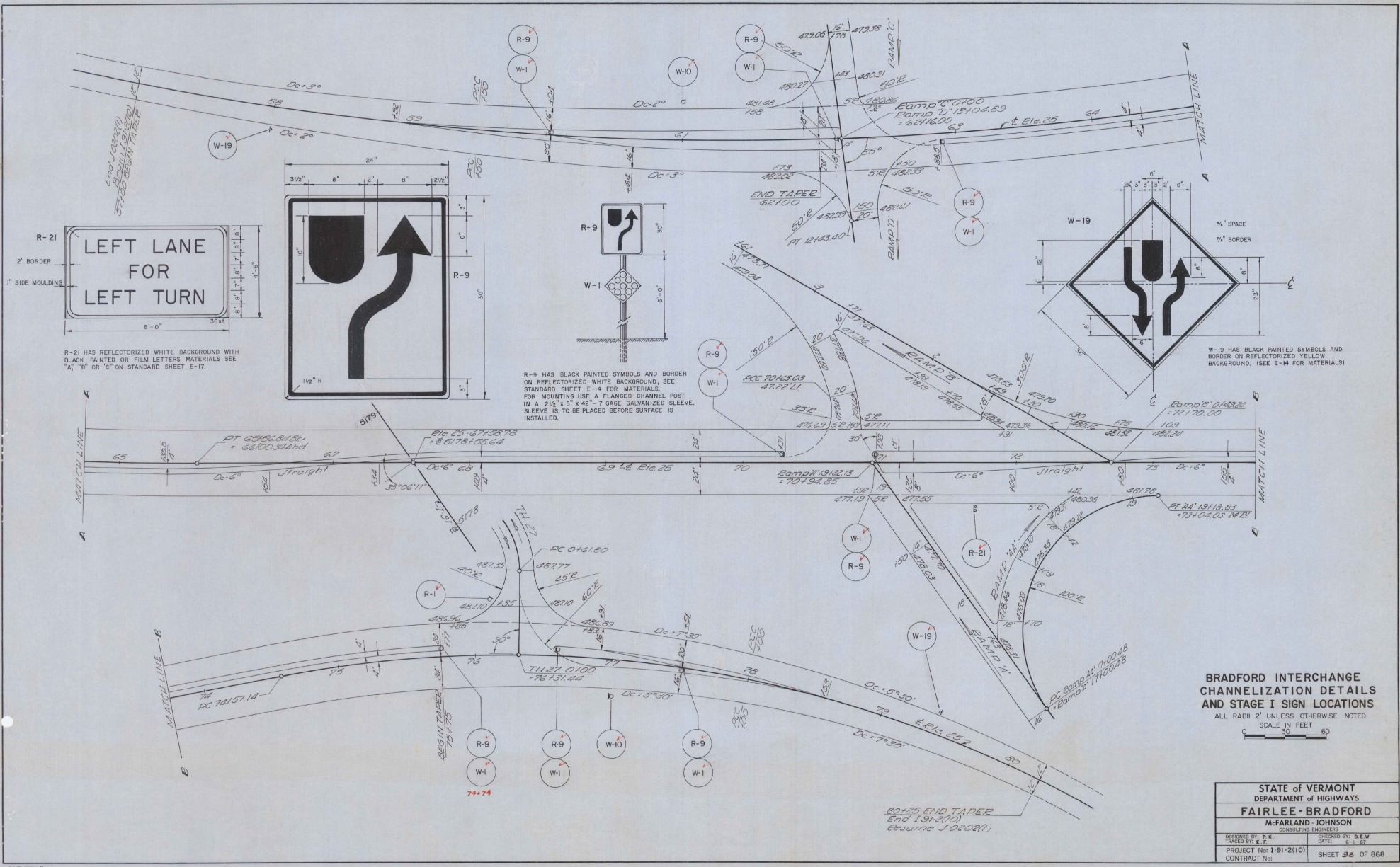
Elev. 485.00 + 74+27

STATE of VERMONT  
 DEPARTMENT of HIGHWAYS  
**FAIRLEE - BRADFORD**  
 MCFARLAND - JOHNSON  
 CONSULTING ENGINEERS

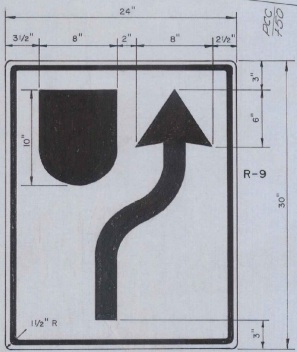
PROFILE SCALE: 10 FEET  
 HORIZ SCALE: 10 FEET  
 VERT SCALE: 10 FEET

DESIGNED BY: E. F. TRACED BY: E. F. CHECKED BY: D. E. W. DATE: 4-1-57  
 PROJECT No: 1-91-2(H) CONTRACT No: SHEET 95 OF 866

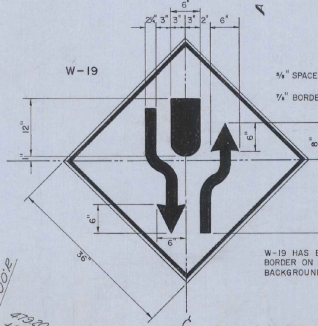
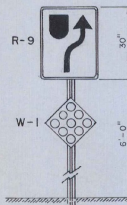




R-21 HAS REFLECTORIZED WHITE BACKGROUND WITH BLACK PAINTED OR FILM LETTERS MATERIALS SEE "A", "B" OR "C" ON STANDARD SHEET E-17.



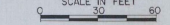
R-9 HAS BLACK PAINTED SYMBOLS AND BORDER ON REFLECTORIZED WHITE BACKGROUND, SEE STANDARD SHEET E-14 FOR MATERIALS. FOR MOUNTING USE A FLANGED CHANNEL POST IN A 2 1/2" x 5" x 45" 7 GAGE GALVANIZED SLEEVE. SLEEVE IS TO BE PLACED BEFORE SURFACE IS INSTALLED.



W-19 HAS BLACK PAINTED SYMBOLS AND BORDER ON REFLECTORIZED YELLOW BACKGROUND. (SEE E-14 FOR MATERIALS)

**BRADFORD INTERCHANGE CHANNELIZATION DETAILS AND STAGE I SIGN LOCATIONS**

ALL RADII 2' UNLESS OTHERWISE NOTED  
SCALE IN FEET



STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
FAIRLEE - BRADFORD	
MCFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY: E. F.	CHECKED BY: D. E. W.
TRACED BY: E. F.	DATE: 6-1-67
PROJECT No: I-91-2(10)	SHEET 39 OF 868
CONTRACT No:	



Vermont Agency of  
Transportation  
PHASE 1-INTERSTATE  
#122302-01  
INITIALS   
HANGER 610

Fairlee-Bradford I-91-2 (10)  
AND -I-91-2 (25) FILE ↑ 1972

1972  
1972