FED. ROAD REF. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	212-L	1960	1	125

INDEX OF SHEETS

SECTION #1
- SHEET NO. 1 TITLE PAGE
- " " 2 TYPICAL CROSS-SECTION OF IMPROVEMENT {GRADING, BASE, DRAINAGE & GUARD RAIL WITH DOUBLE TACK COAT OF REFINED TAR ITEM 29
- " " 3 BANKING AND WIDENING TABLES
- " "4-8 PLAN AND PROFILE
- " " 9 STD. STRUCT. SHEET S-28 PIPE CULVERTS
- " " 10 " " " S-30 GUARD RAIL
- " " 11 " " " S-30-A UNDERDRAIN & BOUNDARY MARKERS
- " " 12 " " " S-40 BARRICADES, SIGNS & LIGHTS
- " "13-26 CROSS-SECTIONS

SHADY RILL ROAD
- SHEET NO. 27 TYPICAL CROSS-SECTION OF IMPROVEMENT {GRADING, BASE, DRAINAGE & GUARD RAIL
- " " 28 BANKING AND WIDENING TABLES
- " "29-31 PLAN AND PROFILE
- " " 32 STD. STRUCT. SHEET S-28 PIPE CULVERTS
- " " 33 " " " S-30 GUARD RAIL
- " " 34 " " " S-30-A UNDERDRAIN & BOUNDARY MARKERS
- " " 35 " " " S-40 BARRICADES, SIGNS & LIGHTS
- " "36-51 CROSS-SECTIONS

SECTION #2
- SHEET NO. 52 TYPICAL CROSS-SECTION OF IMPROVEMENT {GRADING, BASE, DRAINAGE & GUARD RAIL WITH DOUBLE TACK COAT OF REFINED TAR ITEM 29
- " " 53 BANKING AND WIDENING TABLES
- "54-57 PLAN AND PROFILE
- " " 58 STD. STRUCT. SHEET S-28 PIPE CULVERTS
- " " 59 " " " S-30 GUARD RAIL
- " " 60 " " " S-30-A UNDERDRAIN & BOUNDARY MARKERS
- " " 61 " " " S-40 BARRICADES, SIGNS & LIGHTS
- " " 62 GENERAL LAYOUT & SLAB DETAILS
- " " 63 STEEL SUPERSTRUCTURE DETAILS
- " " 64 NEW BRIDGE SEATS ON PRESENT ABUTMENTS
- " " 65 NEW ABUTMENTS #1 & #2
- " " 66 STD. STRUCT. SHEET S.B-5 RAILING DETAILS
- " " 67 " " " S.B-20 DETAIL A, DRAINS
- " " 68 " " " S.B-11 BARRICADES, SIGNS & LIGHTS
- " "69-100 CROSS-SECTIONS

SECTION #3
- SHEET NO. 101 TYPICAL CROSS-SECTION OF IMPROVEMENT {GRADING, BASE, DRAINAGE & GUARD RAIL WITH DOUBLE TACK COAT OF REFINED TAR ITEM 29
- " " 102 BANKING AND WIDENING TABLES
- "103-105 PLAN AND PROFILE
- " " 106 STD. STRUCT. SHEET S-28 PIPE CULVERTS
- " " 107 " " " S-30 GUARD RAIL
- " " 108 " " " S-30-A UNDERDRAIN & BOUNDARY MARKERS
- " " 109 " " " S-40 BARRICADES, SIGNS & LIGHTS
- "110-125 CROSS-SECTIONS

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

STATE PROJECT

TOWN OF MIDDLESEX

MONTPELIER-WORCESTER ROAD

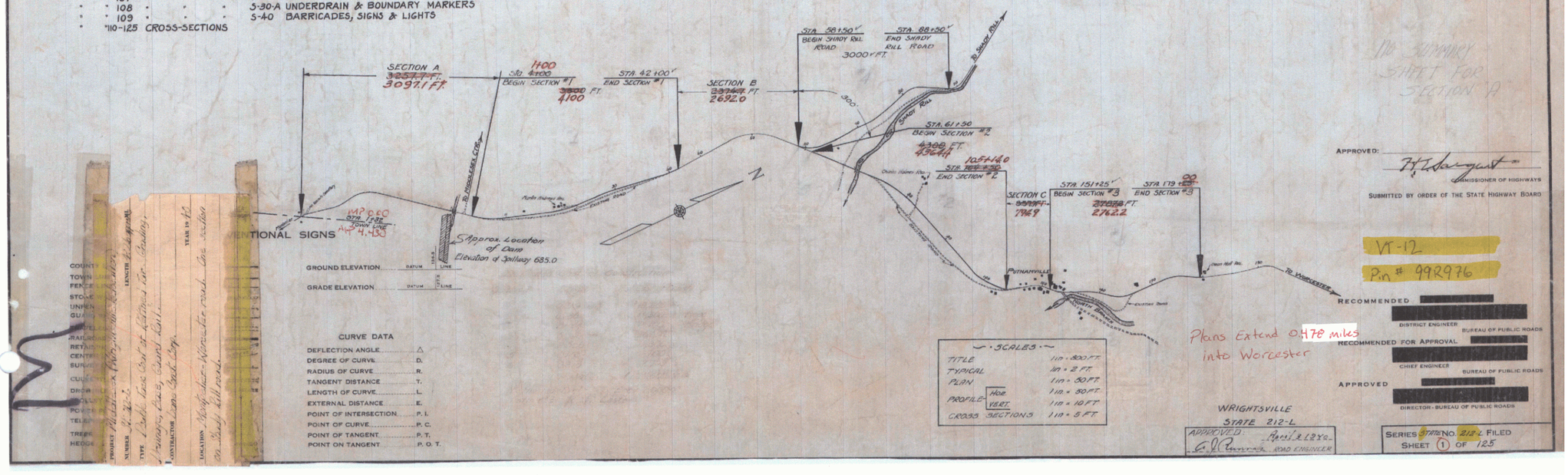
BEGINNING 3257.7 FT. NORTH AT OF THE MONTPELIER CITY--
MIDDLESEX TOWN LINE & EXTENDING NORTHERLY WITH 3 6
SECTIONS OF CONSTRUCTION ON THE MONTPELIER----
WORCESTER HIGHWAY & 1 SECTION ON THE SHADY RILL ROAD.

LENGTH OF PROJECT 20,805.2 FT. - 3.940 MILES

Scale 1 inch = 1 mile

Corrected as Record Plan
A. L. Bemis

No Summary Sheet For Section #1



CONVENTIONAL SIGNS

GROUND ELEVATION ..... DATUM ..... C/L LINE

GRADE ELEVATION ..... DATUM ..... C/L LINE

CURVE DATA

DEFLECTION ANGLE	Δ
DEGREE OF CURVE	D.
RADIUS OF CURVE	R.
TANGENT DISTANCE	T.
LENGTH OF CURVE	L.
EXTERNAL DISTANCE	E.
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

SCALES

TITLE	1 in. = 200 FT.
TYPICAL	1 in. = 2 FT.
PLAN	1 in. = 50 FT.
PROFILE HOR.	1 in. = 50 FT.
PROFILE VERT.	1 in. = 10 FT.
CROSS SECTIONS	1 in. = 5 FT.

Plans Extend 0.478 miles into Worcester

APPROVED: _____
COMMISSIONER OF HIGHWAYS

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

VT-12
Pin # 99R976

RECOMMENDED [redacted]
DISTRICT ENGINEER BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL [redacted]
CHIEF ENGINEER BUREAU OF PUBLIC ROADS

APPROVED [redacted]
DIRECTOR - BUREAU OF PUBLIC ROADS

WRIGHTSVILLE
STATE 212-L

APPROVED: April 21 1960
ROAD ENGINEER

SERIES STATE NO. 212-L FILED
SHEET (1) OF 125

PROJECT Middlesex - Montpelier-Worcester road
NUMBER U. N. S.
TYPE 1 Soft Rock Cut & Refill for Roadway, 1 Railway Type Guard Rail
CONTRACTOR Low Bid Logs
LOCATION Montpelier-Worcester road On Shady Rill road
YEAR 19 61
LENGTH As Required
COUNTY
TOWN
FENCE
STONE
UNPEN
GUARD
RAILROAD
RETAINING
CENTER
SURVEY
CULVERT
DRIVEWAY
POLE
TELEPHONE
TREES
HEDGE

INDEX OF SHEETS

SECTION 1

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTION-6" GRAVEL SURFACE COURSE
" " 3 DETAILS OF CONSTRUCTION
" " 4-6 PLAN AND PROFILE SHEET
" " 7 STANDARD STRUCTURE SHEET S-28; PIPE CULVERTS
" " 8 " " " S-30; GUARD RAIL
" " 9 " " " S-40; BARRICADES, SIGNS & LIGHTS
" " 10-25 CROSS-SECTIONS

SECTION 2

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTIONS-6" GRAVEL SURFACE COURSE
" " 3 DETAILS OF CONSTRUCTION
" " 4-9 PLAN & PROFILE SHEETS
" " 10 STANDARD STRUCTURE SHEET S-28; PIPE CULVERTS
" " 11 " " " S-30; GUARD RAIL
" " 12 " " " S-40; BARRICADES, SIGNS & LIGHTS
" " 13-32 CROSS-SECTIONS

SECTION 3

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTIONS-6" GRAVEL SURFACE COURSE
" " 3 DETAILS OF CONSTRUCTION
" " 4-6 PLAN & PROFILE SHEETS
" " 7 STANDARD STRUCTURE SHEET S-28; PIPE CULVERTS
" " 8 " " " S-29; BOX CULVERTS
" " 9 " " " S-30; GUARD RAIL
" " 10 " " " S-40; BARRICADES, SIGNS & LIGHTS
" " 11-26 CROSS-SECTIONS

SECTION 4

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTIONS-6" GRAVEL SURFACE COURSE
" " 3 DETAILS OF CONSTRUCTION
" " 4 PLAN & PROFILE SHEET
" " 5 STANDARD STRUCTURE SHEET S-28; PIPE CULVERTS
" " 6 " " " S-30; GUARD RAIL
" " 7 " " " S-40; BARRICADES, SIGNS & LIGHTS
" " 8-10 CROSS-SECTIONS

SECTION 5

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTIONS-6" GRAVEL SURFACE COURSE
" " 3 DETAILS OF CONSTRUCTION
" " 4 PLAN & PROFILE SHEET
" " 5 STANDARD STRUCTURE SHEET S-40; BARRICADE SIGNS & LIGHTS
" " 6-8 CROSS-SECTIONS

STATE OF VERMONT

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

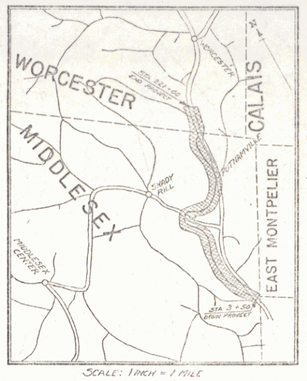
TOWNS OF MIDDLESEX AND WORCESTER
WRIGHTSVILLE RELOCATION

MONTPELIER-WORCESTER ROAD

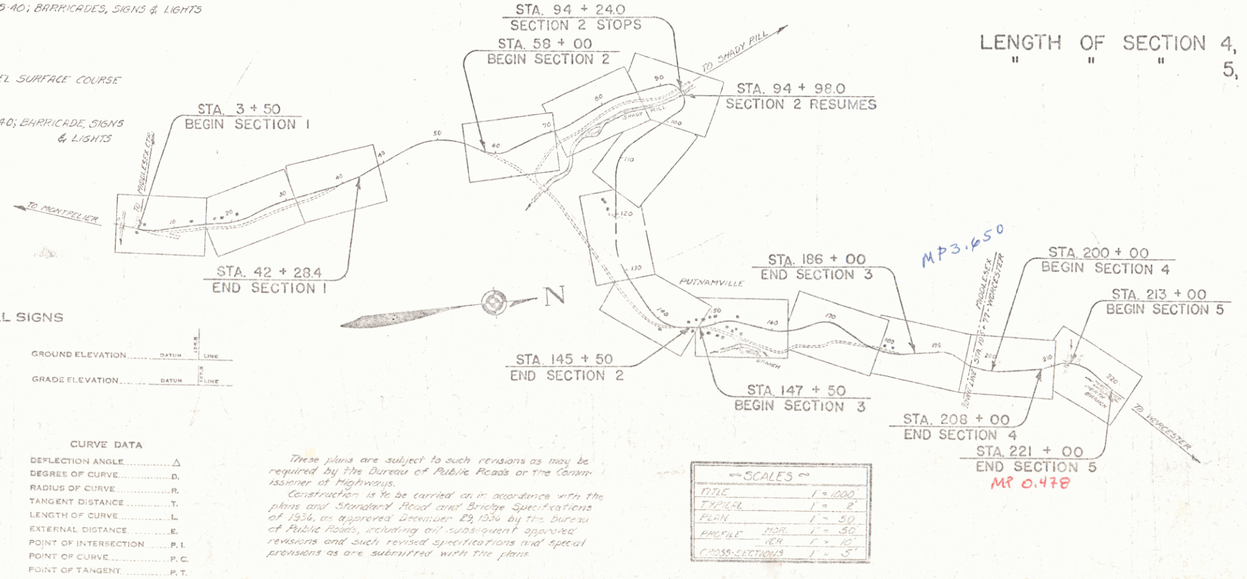
BEGINNING AT A POINT 100 FT. NORTH OF THE SIDE ROAD TO MIDDLESEX CENTER, AND EXTENDING NORTHERLY APPROXIMATELY 4.26 MILES, TO A POINT 2526 FT. NORTH OF THE MIDDLESEX-WORCESTER TOWN LINE.

LENGTH OF SECTION 1, 3890.9 FT. = 0.736 MILES
" " " 2, 8676.0 " = 1.643 "
" " " 3, 3850.0 " = 0.729 "
LENGTH OF SECTION 4, 800.0 FT. = 0.151 MILES
" " " 5, 800.0 " = 0.151 "

SECTION NO.	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	9	VT.		1937	1	25
2					1	52
3					1	26
4					1	10
5					1	8



SCALE: 1 INCH = 1 MILE



CONVENTIONAL SIGNS

GROUND ELEVATION ..... DATUM ..... LINE
GRADE ELEVATION ..... DATUM ..... LINE

CURVE DATA

DEFLECTION ANGLE ..... Δ
DEGREE OF CURVE ..... D.
RADIUS OF CURVE ..... R.
TANGENT DISTANCE ..... T.
LENGTH OF CURVE ..... L.
EXTERNAL DISTANCE ..... E.
POINT OF INTERSECTION ..... P. I.
POINT OF CURVE ..... P. C.
POINT OF TANGENT ..... P. T.
POINT ON TANGENT ..... P. O. T.

These plans are subject to such revisions as may be required by the Bureau of Public Roads or the Commissioner of Highways.

Construction is to be carried out in accordance with the plans and Standard Road and Bridge Specifications of 1936, as approved December 29, 1936 by the Bureau of Public Roads, including all subsequent approved revisions and such revised specifications and special provisions as are submitted with the plans.

SCALES

TITLE	1" = 1000'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HOR.	1" = 50'
PROFILE VER.	1" = 10'
CROSS-SECTIONS	1" = 5'

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
~~Pt~~ Town of U+12
(To Be Returned To R.O.W. Division)

APPROVED:
COMMISSIONER OF HIGHWAYS
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

RECOMMENDED
DISTRICT ENGINEER
BUREAU OF P.R.
RECOMMENDED FOR APPROVAL
CHIEF ENGINEER
APPROVED
DIV.

CORRECT:
ROAD ENGINEER
SERIES
SHEET 1A

2

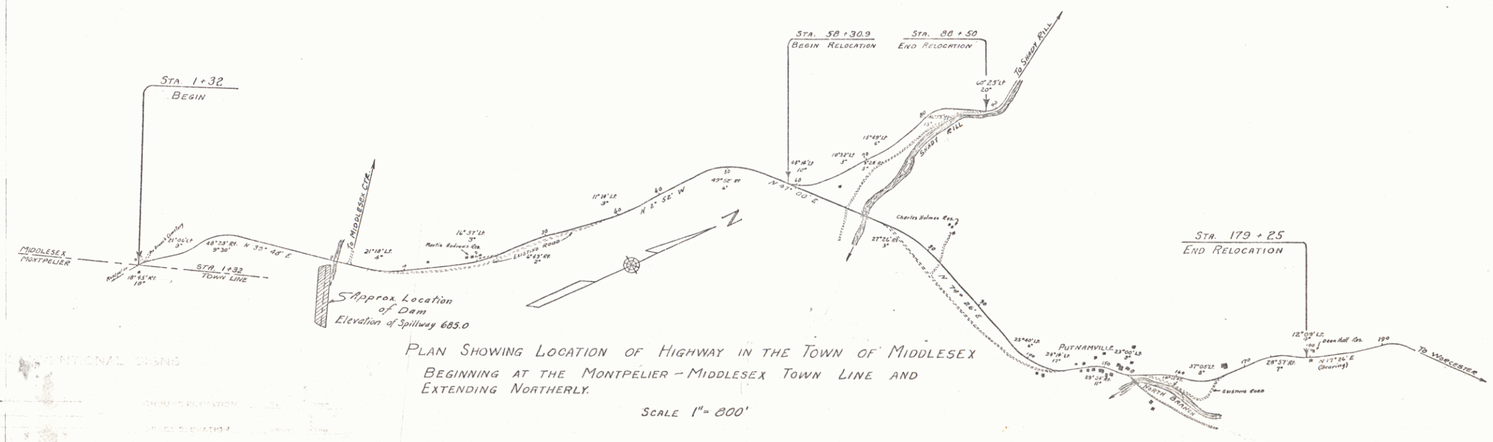
INDEX OF SHEETS

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTION OF IMPROVEMENT
" " 3 BANKING AND WIDENING TABLES
" " 4 PLAN AND PROFILE STA.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.				

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT



PLAN SHOWING LOCATION OF HIGHWAY IN THE TOWN OF MIDDLESEX
BEGINNING AT THE MONTPELIER – MIDDLESEX TOWN LINE AND
EXTENDING NORTHERLY.

SCALE 1" = 800'

COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE — PC. 30+65
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE

CURVE DATA

DEFLECTION ANGLE ..... Δ
DEGREE OF CURVE ..... D.
RADIUS OF CURVE ..... R.
TANGENT DISTANCE ..... T.
LENGTH OF CURVE ..... L.
EXTERNAL DISTANCE ..... E.
POINT OF INTERSECTION ..... P. I.
POINT OF CURVE ..... P. C.
POINT OF TANGENT ..... P. T.
POINT ON TANGENT ..... P. O. T.

APPROVED:

COMMISSIONER OF HIGH

SUBMITTED BY ORDER OF THE STATE HIGHWAY B

RECOMMENDED

DISTRICT ENGINEER BUREAU OF PUBLIC R

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER BUREAU OF PUBLIC R

APPROVED

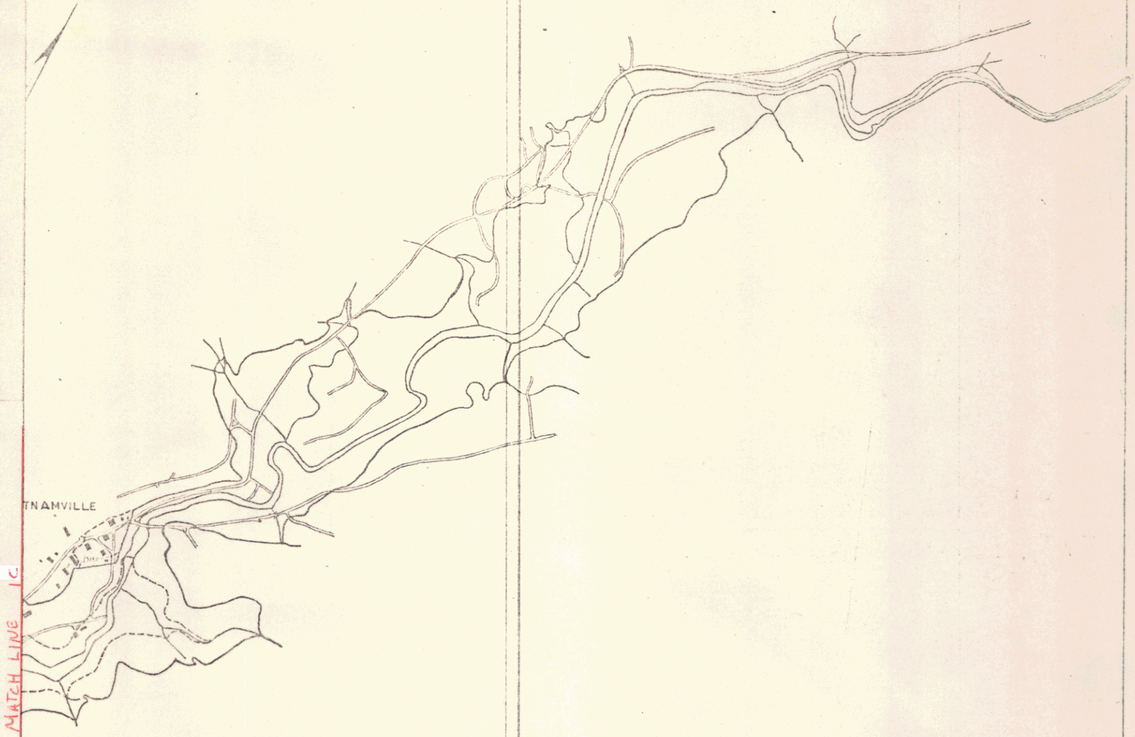
DIRECTOR - BUREAU OF PUBLIC ROADS

SERIES F NO. FILED
SHEET 1 OF

3

MATCH LINE ID
AREA COV
AREA COVERED BY FLOOD OF
5-YEAR FREQUENCY, ELEV. 650'
BRANCH
NORTH
RELOCATION
OF HIGHWAY
RELOCATION OF HIGHWAY
(OCE MCET)
WRIGHTSVILLE
Shihway El 685'
Center Line of Dam
Wrightsville Reservoir
RELOCATION OF HIGHWAY
WA EPARTMENT

CORPS OF ENGINEERS, U. S. A.



TNAMVILLE

MATCH LINE 1C

ERED BY MAXIMUM FLOOD ELEV. 690'

COPIED FROM
UNITED STATES ENGINEERS MAP
By VERMONT HIGHWAY DEPT.

WINOOSKI RIVER, VT.
NORTH BRANCH
RESERVOIR AT WRIGHTSVILLE

(SURVEY OF JULY, 1929)

SCALE 1 INCH = 500 FEET

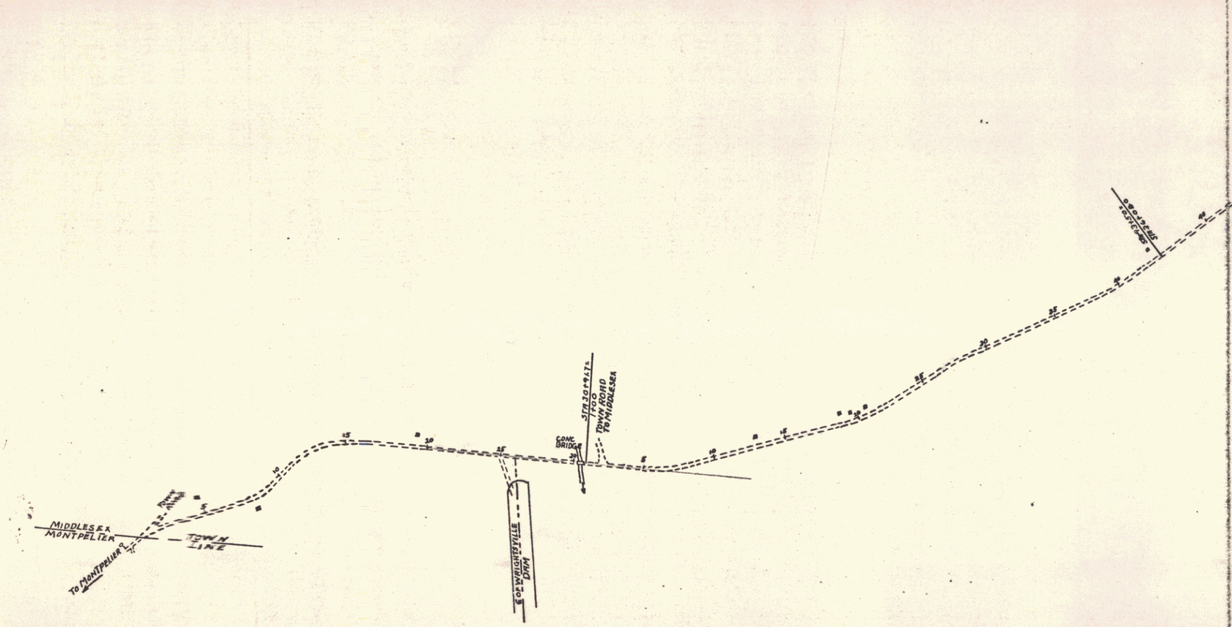
500 0 500 1000 1500 2000

United States Engineer Office, First District, New York, N.Y.

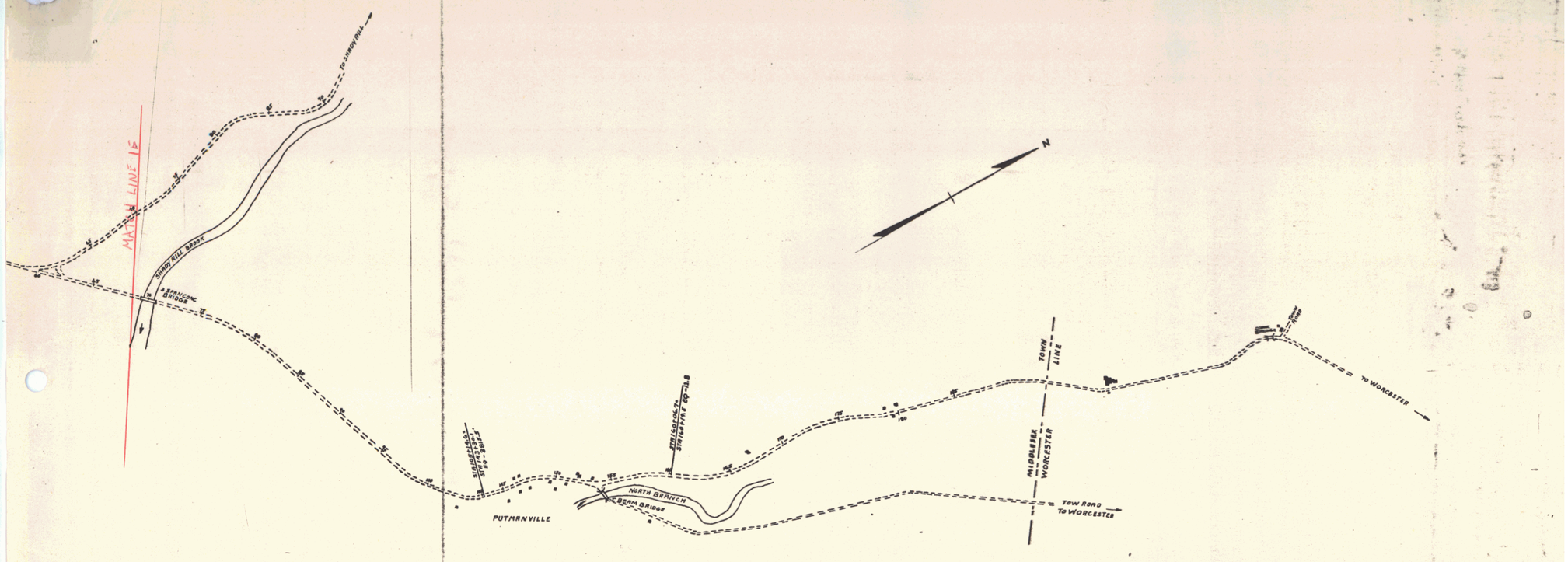
JULY 6, 1933.

RESERVOIR - WRIGHTSVILLE

S1627405



MP 0.00 – 3.65
RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
~~Rte~~ Town of U12
(To Be Returned To R.O.W. Divisio
Middlesex
1E
6

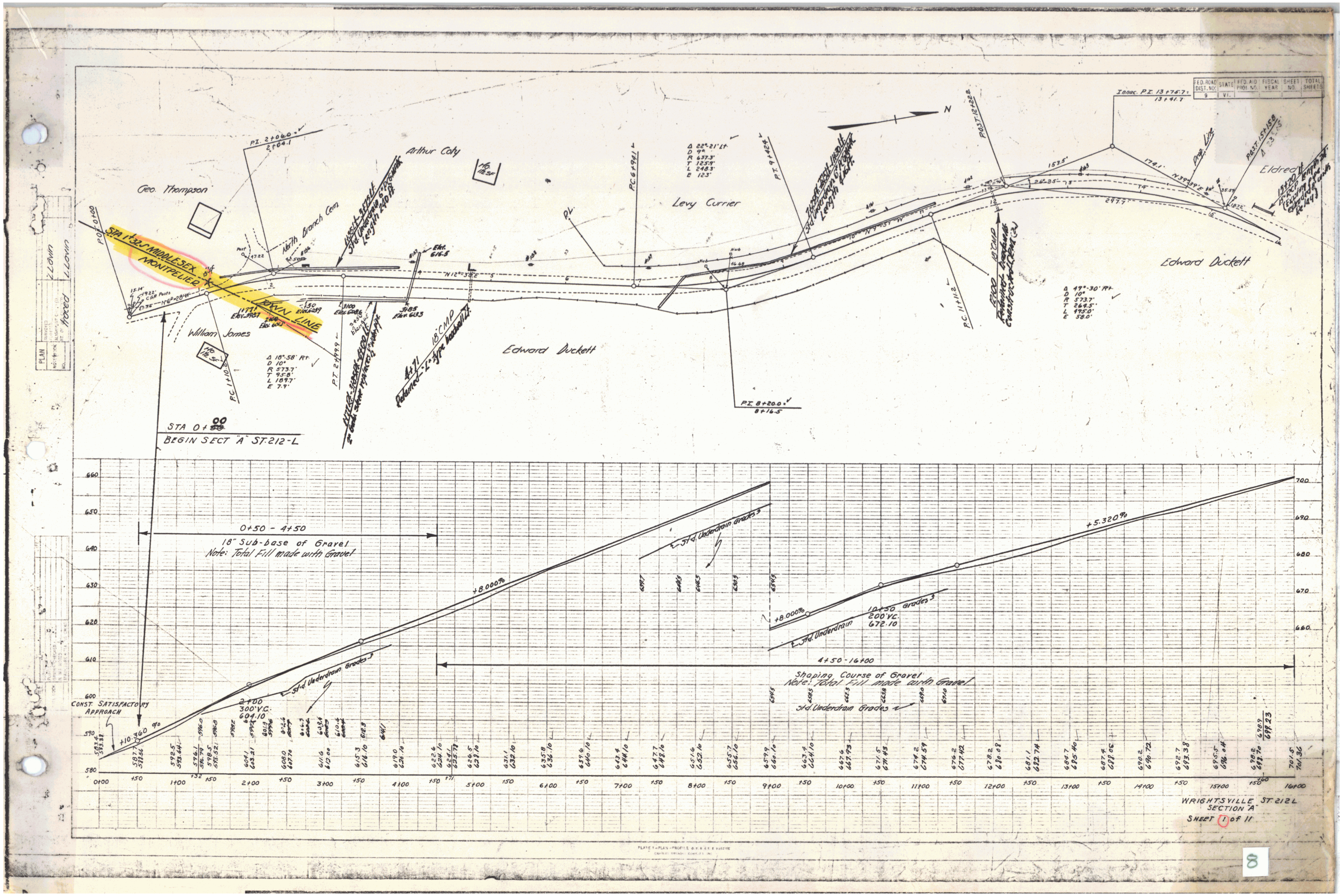


ROADS AT WRIGHTVILLE DAM
MIDDLESEX VT.

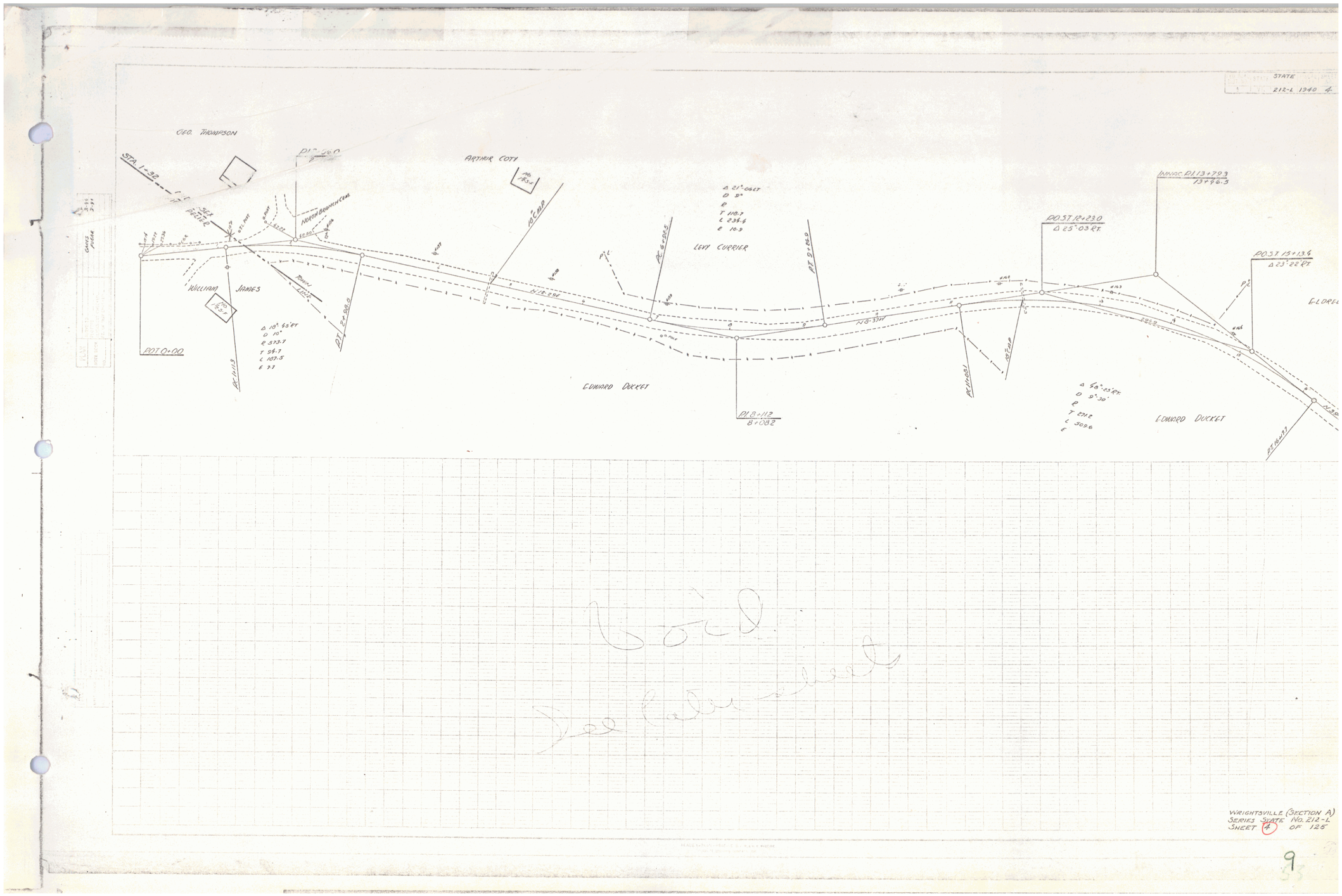
SCALES PLAN 1 INCH = 400 FT.
PROFILE HOR. 1 INCH = 400 FT.
VER. 1 INCH = 40 FT.

1F

7


FED. ROAD DIST. NO. 9
STATE VT.
FED. AID PROJ. NO.
FISCAL YEAR
SHEET NO.
TOTAL SHEETS
PLAN
SURVEYED L. Lovin
PLOTTED L. Lovin
ALIGNMENT CHECKED
RT. OF WAY traced
NOTE BOOK NO.
Geo. Thompson
Arthur Coty
Levy Currier
Edward Duckett
William James
Eldred
North Branch Cem.
STA 1+32.5 MIDDLESEX MONTPELIER TOWN LINE
P.O.T. 0+00
P.I. 2+06.0 2+04.1
P.C. 1+10.2
P.T. 2+99.9
Δ 18°-58' Rt. D 10° R 573.7' T 95.8' L 189.7' E 7.9'
N 6°-28' W
C.G.R. Posts
P.C. 6+94.1
P.T. 9+42.4
Δ 22°-21' Lt. D 9° R 637.3' T 125.9' L 248.3' E 12.3'
P.I. 8+20.0 8+16.5
N 12°-30' E
N 9°-57' W
P.C. 11+11.2
P.O.S.T. 12+22.2
Innac. P.I. 13+75.7 13+41.7
153.5'
174.1'
297.7'
26°-25'
N 39°-39' E
Δ 49°-30' Rt. D 10° R 573.7' T 264.5' L 495.0' E 58.0'
P.O.S.T. 15+15.8
Prop. Line
P.L.
4+71 18" CMP Retained "L" type headwall Lt.
12+00 18" CMP Retained headwalls Construct
Std. Underdrain 6" P.C.M.P. Length 240 ft.
Std. Underdrain 6" P.C.M.P. Length 416 ft.
15+20 15" RCP Length 24' (Existing pipe extended & with Relay)
Elev. 616.5
STA 0+00
BEGIN SECT "A" ST. 212-L
CONST. SATISFACTORY APPROACH
0+50 - 4+50
18" Sub-base of Gravel
Note: Total Fill made with Gravel
+10.360 %
2+00 300' V.C. 604.10
+8.000%
Std. Underdrain Grades
+8.000%
10+50 200' V.C. 672.10
Std. Underdrain
+5.320%
4+50 - 16+00
Shaping Course of Gravel
Note: Total Fill made with Gravel
Std. Underdrain Grades
0+00 +50 1+00 +50 2+00 +50 3+00 +50 4+00 +50 5+00 +50 6+00 +50 7+00 +50 8+00 +50 9+00 +50 10+00 +50 11+00 +50 12+00 +50 13+00 +50 14+00 +50 15+00 +50 16+00
580 590 600 610 620 630 640 650 660
660 670 680 690 700
WRIGHTSVILLE ST. 212L
SECTION "A"
SHEET 1 of 11

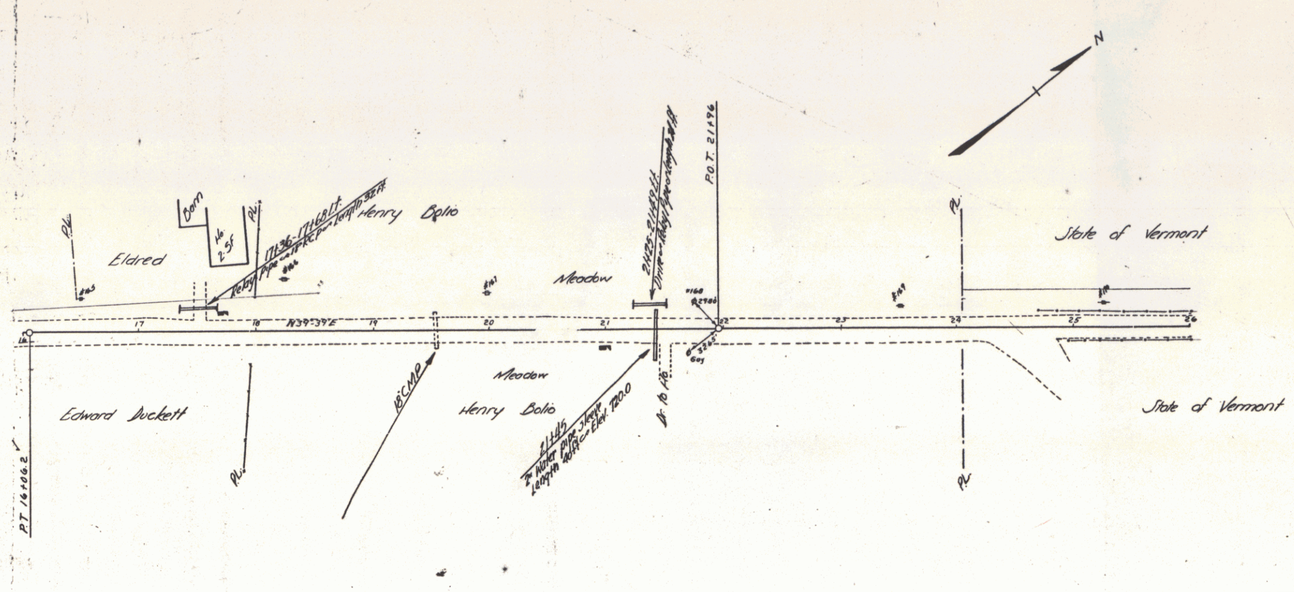
8

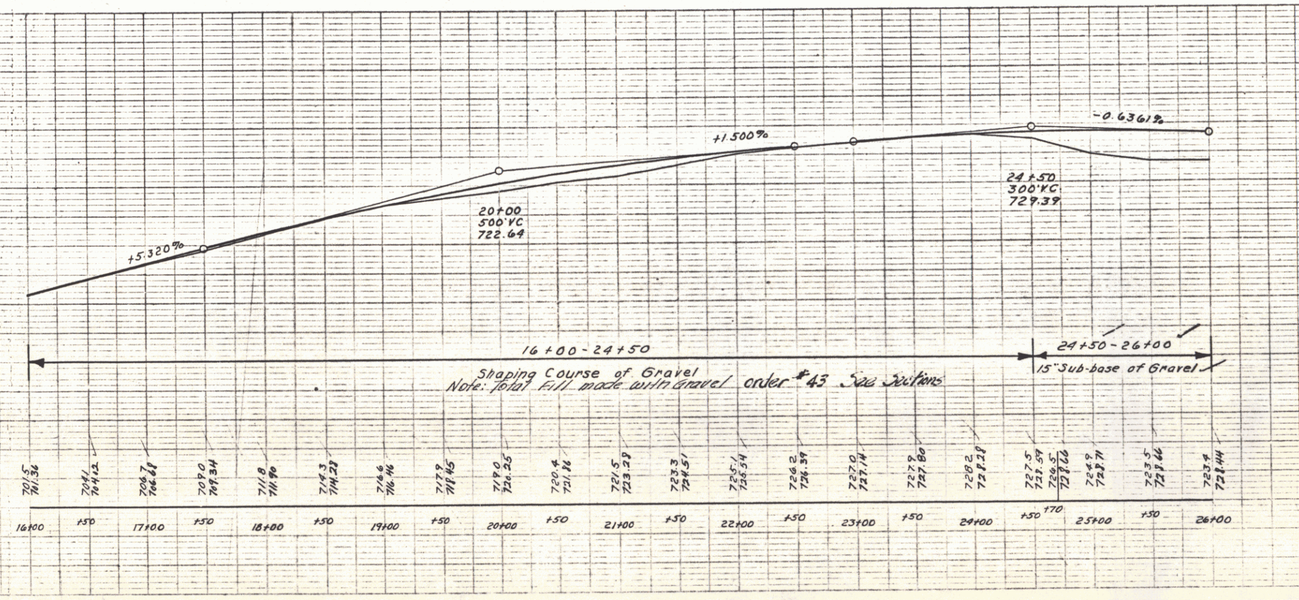


WRIGHTSVILLE (SECTION A)
SERIES STATE NO. 212-L
SHEET 4 OF 125

9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.				



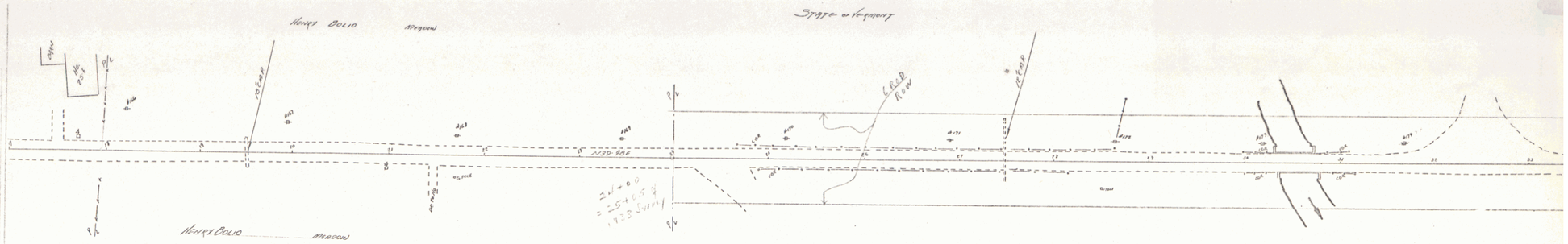


WRIGHTSVILLE ST. 212 L
SECTION "A"
SHEET (2) OF 11

PLAN & PROFILE U.S. ROUTE 2

10

STATE
5 212-L 1960 5

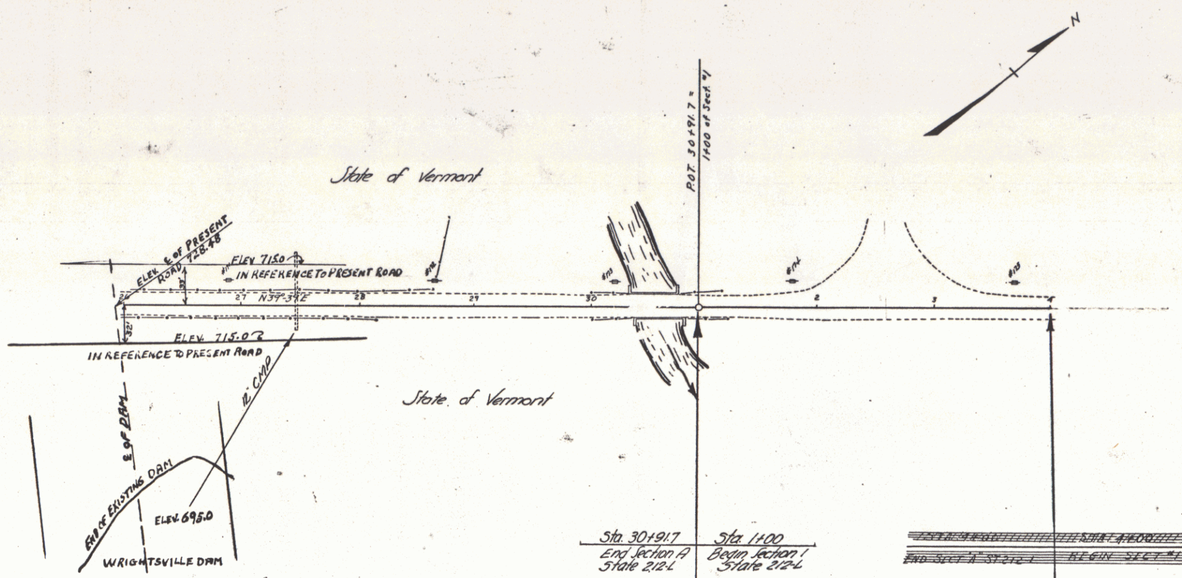


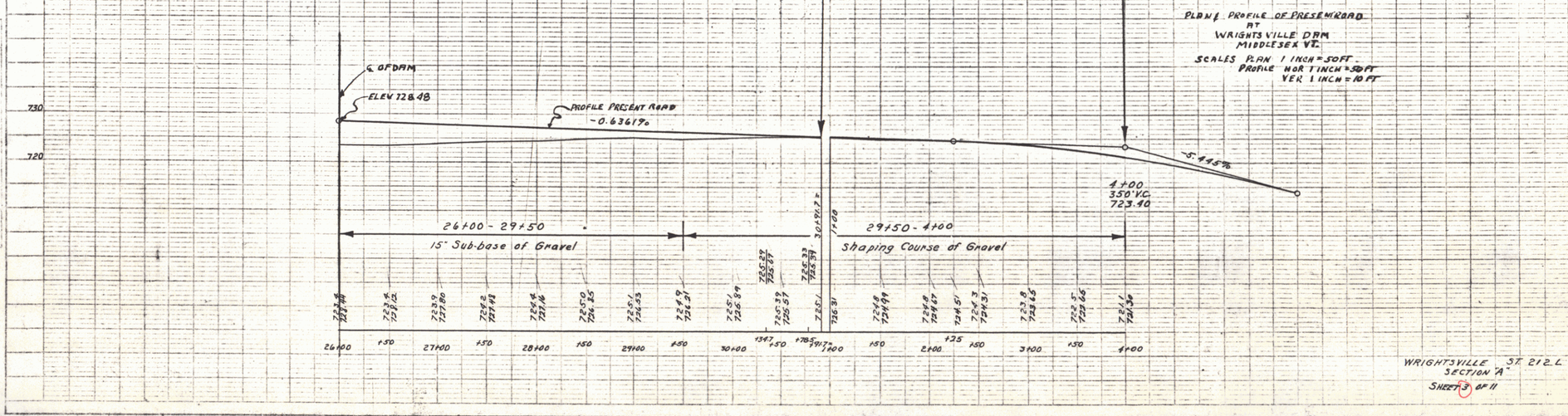
334+89.7 =
9+00.0

WRIGHTSVILLE (SECTION A)
SERIES STATE No. 212-L
SHEET 5 OF 125

11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.				





12

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	VT.	212-L	1940	6	125

B.M. No 1
spot on wing
El: 725.23

B.M. No 2
spot on ledge
El: 711.40

B.M. No 3
15" Hemlock
El: 707.03

Δ - 21°-18' Lt.
D - 4°
R - 1432.7
T - 269.6
L - 532.5
E - 25.1

P.C. 4+10.6

7+98.5 15" C.M.P. (Good) Replace 80 Ft with 15" C.M.P.(New) (Sheet 5-28)

P.T. 9+43.1

STATE OF VERMONT

MARTIN ANDREWS

shack

iron pipe

STATE OF VERMONT

N 18°-30°E

4 cont. open ditch ?

15+65 Rt. 18" R.C.P. (6'R.C.P. Length Eliminated) (Sheet 5-28)

To Montpelier
N 39°-48°E

conc. bridge

Sta 30+91.7
End Section #1
State 212-L

P.O.T. 1+00
Begin Section #1
State 212-L

P.O.S.T. 5+00

P.I. 6+80
6+73.7

11+55 Lt. 18" R.C.P.
Rel 4 Ext 40 Ft with 18" R.C.P. (Sheet 5-28)

14+00
15" R.C.P. Length 6'+ Ft (includes 4 Ft R.C.P.)
Outlet ditch required (Sheet 5-28)

14+38 Rt. 15" R.C.P.
Remove 46 Ft Const'd open ditch across old road after new road is opened to traffic.

15+65 Rt. - 65 R.C.P.
Remove 66 Ft const'd open ditch across old road after new road is opened to traffic.

BEGINNING OF PROJECT
STATE 212-C
BEGIN SECTION #1

-0.567%

4+00
3.50 VC
723.40

-3.647%

11+00
6.50 VC
685.27

+0.538%

1+00 - 4+00
Shaping Course of Gravel

4+00 - 5+75
Shaping Course of Gravel

5+75 - 16+00
15" Sub-base of Gravel

730 720 710 700 690 680 670

725.0 725.2 725.1 725.10 724.8 724.42 724.7 724.53 724.4 724.39 724.3 724.21 723.8 723.58 722.5 722.53 721.1 721.26 719.6 719.59 717.7 717.56 715.1 715.19 713.87 710.6 710.51 706.5 709.78 702.3 707.06 699.2 699.36 697.97 695.4 701.44 695.4 701.85 696.1 695.15 695.4 696.89 695.3 694.85 694.8 693.05 697.5 691.97 690.0 690.13 684.1 684.92 684.92 684.5 686.14 680.6 687.49 677.8 687.97 677.6 686.87 676.8 686.91 687.02 675.8 687.15 681.4 687.36 681.4 687.36 680.2 687.30 677.3 687.36 676.5 687.70 678.5 687.80

0 +50 1 +50 2 +25 +50 3 +50 4 +50 5 +50 +75 6 +50 7 +50 +75 8 +96 +50 9 +50 10 +50 11 +50 +55 12 +50 13 +50 14 +25 +50 +88 +15 15 +30 +65 16

B.M.#1 Point spot on wing, 12 ft. lt. of Sta. 0+83 - Elev. 725.23
B.M.#2 Point spot on ledge, 86 ft. lt. of Sta. 7+36 - Elev. 711.40
B.M.#3 Spike in root of 15" Hemlock, 100 ft. lt. of Sta. 11+45 - Elev. 707.03

WRIGHTSVILLE: (SECTION 1)
SERIES STATE No 212 L
SHEET 6 OF 125 SHEETS

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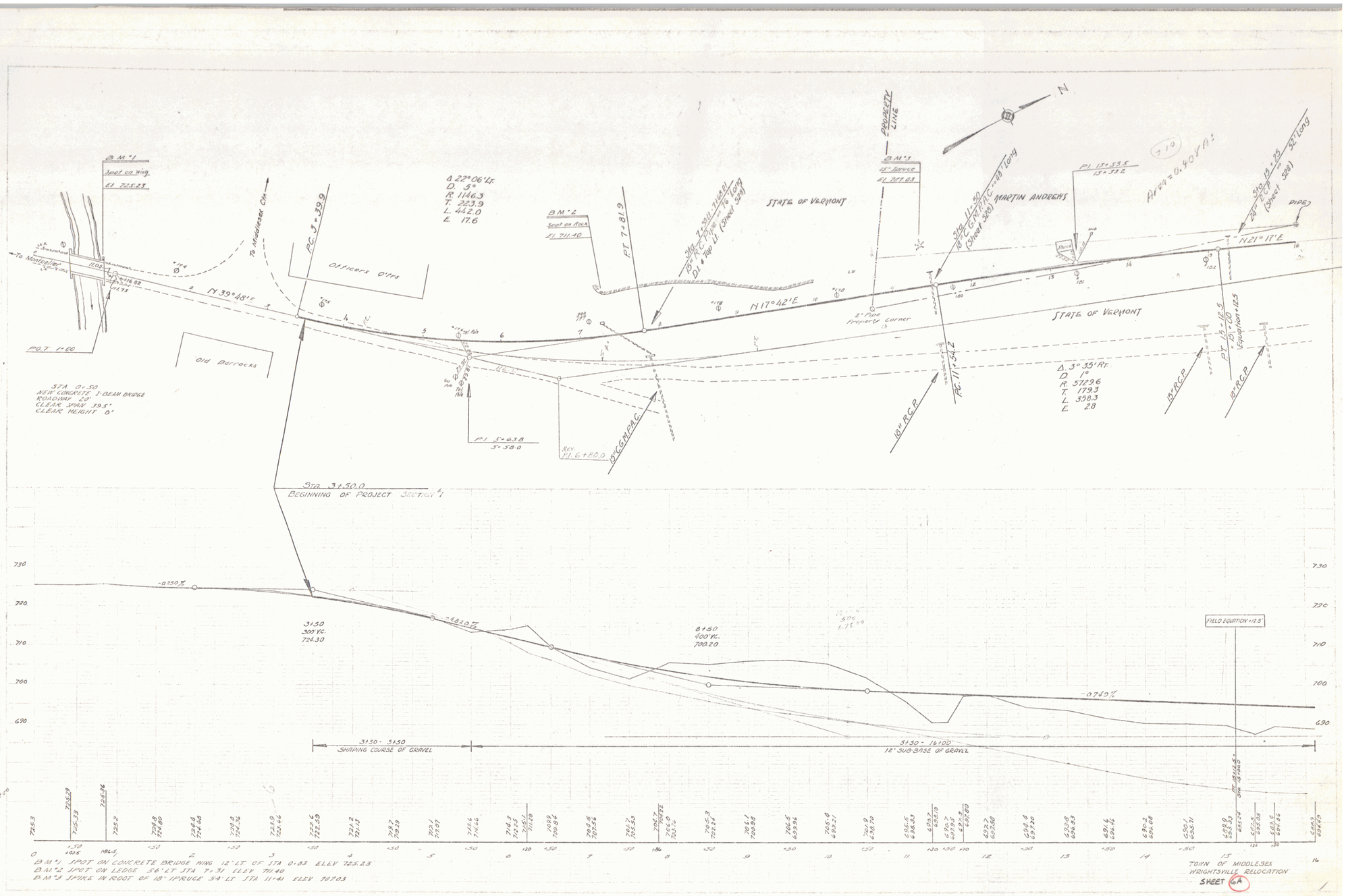
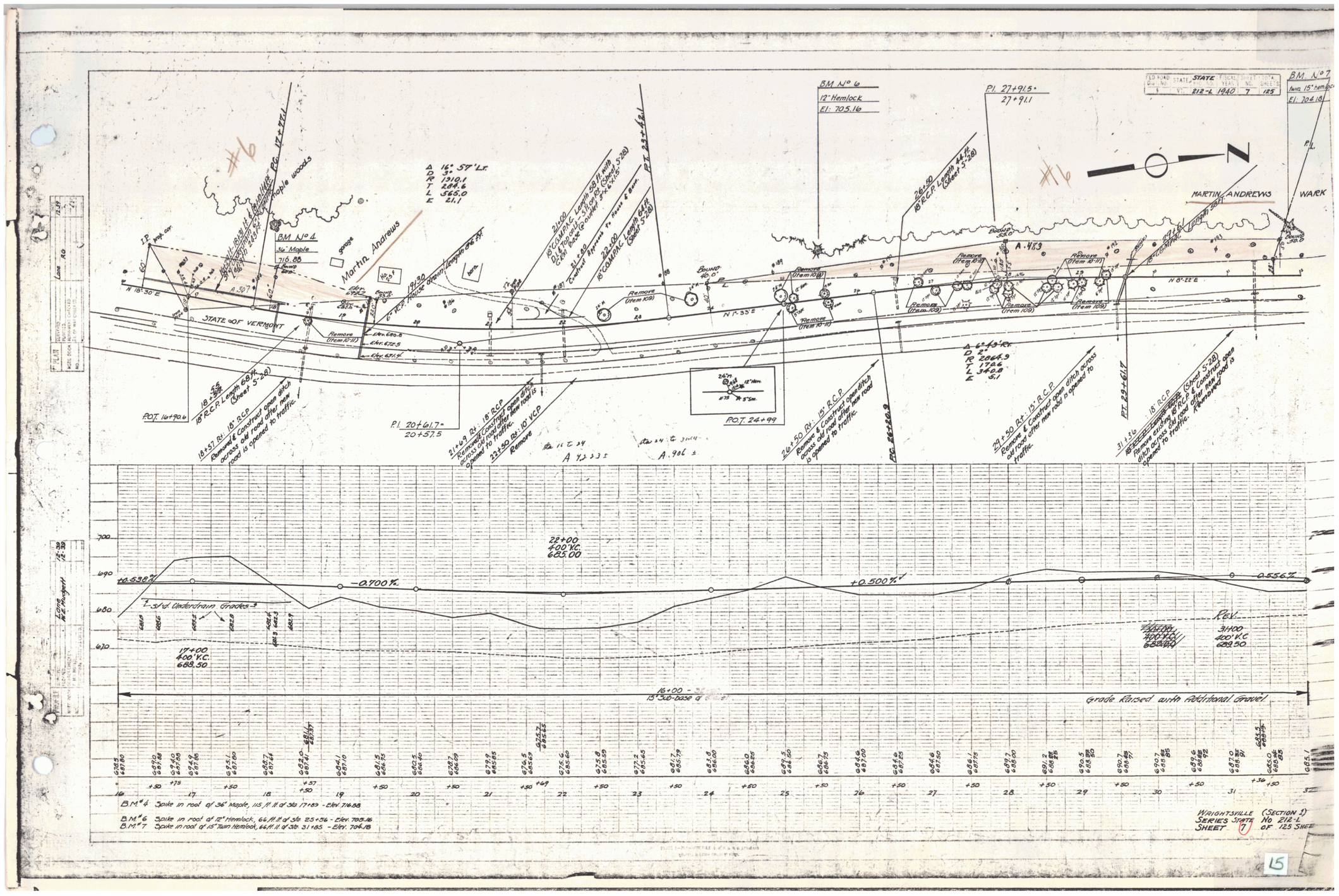
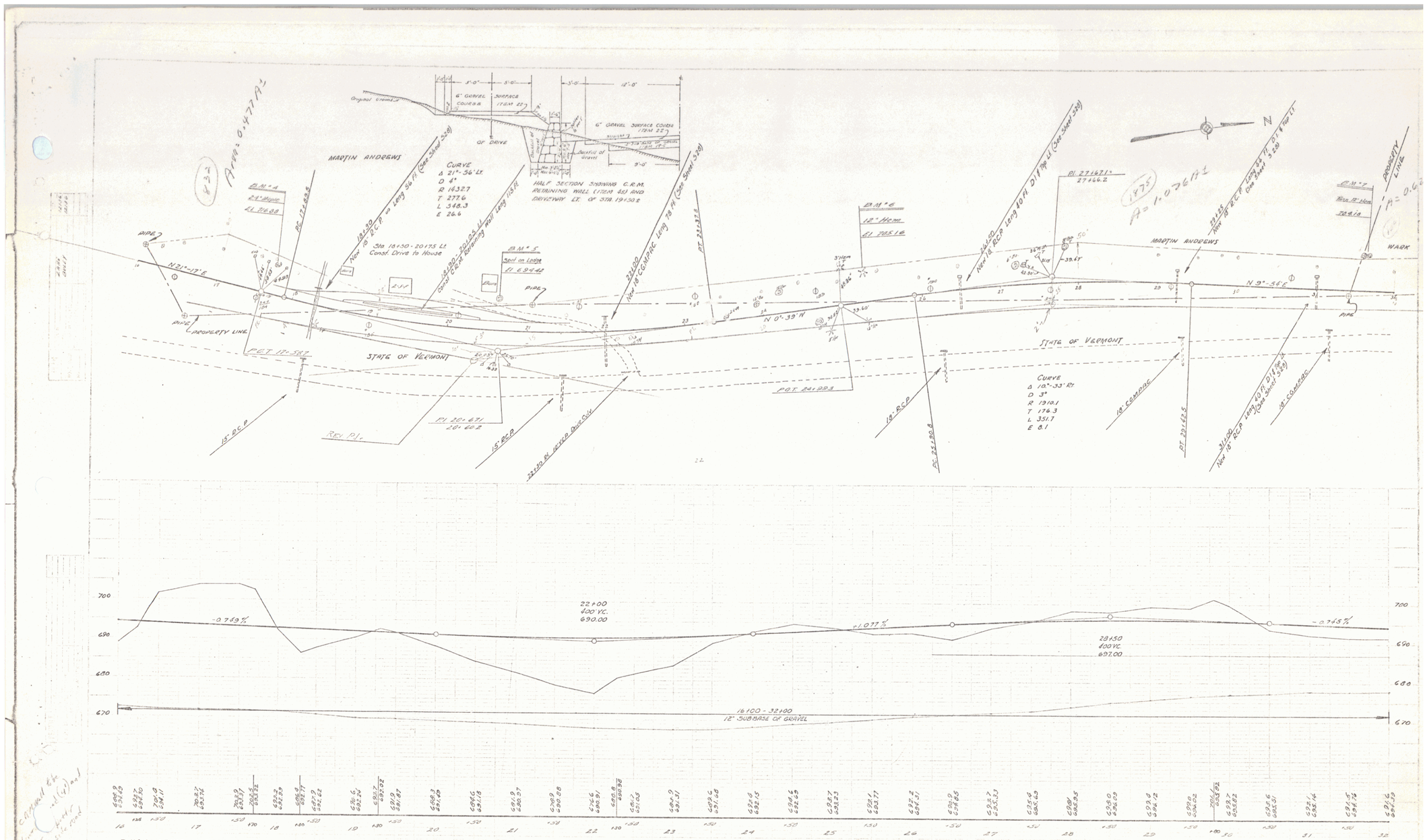

B.M.#1
Spot on Wing
El. 725.23
To Montpelier
To Middlesex Ctr.
N 39°48'E
Officers Offs.
Old Barracks
P.O.T. 1+60
Sta. 0+50
NEW CONCRETE T-BEAM BRIDGE
ROADWAY 20'
CLEAR SPAN 39.5'
CLEAR HEIGHT 8'
Δ 22°06'Lt.
D. 5°
R. 1146.3
T. 223.9
L. 442.0
E. 17.6
P.C. 3+39.9
B.M.#2
Spot on Rock
El. 711.40
P.T. 7+81.9
N 17°42'E
STATE OF VERMONT
PROPERTY LINE
B.M.#3
15" Spruce
El. 707.03
2" Pipe Property Corner
MARTIN ANDREWS
Sta. 11+50
18" C.M.P.A.C. = 48' Long
(Sheet 32A)
P.I. 13+33.5
13+33.2
Ar ea = 0.40 Ac.
Sta. 15+25
24" R.C.P. = 52' Long
(Sheet 32A)
PIPE?
N 21° 17' E
Δ 3°35' Rt.
D 1°
R. 5729.6
T. 179.3
L. 358.3
E. 2.8
P.I. 5+63.8
5+38.0
Rev. P.I. 6+80.0
18" C.G.M.P.A.C.
P.C. 11+54.2
18" R.C.P.
15" R.C.P.
18" R.C.P.
P.T. 15+12.5
-15'+00 Equation+12.5
Sta. 3+50.0
BEGINNING OF PROJECT SECTION #1
-0.750%
-4.820%
-0.749%
3+50
300' Vc.
724.30
8+50
400' Vc.
700.20
FIELD EQUATION +12.5
3+50 - 5+50
SHAPING COURSE OF GRAVEL
5+50 - 16+00
12" SUB-BASE OF GRAVEL
730
720
710
700
690
B.M.#1 SPOT ON CONCRETE BRIDGE WING 12' LT. OF STA 0+83 ELEV. 725.23
B.M.#2 SPOT ON LEDGE 56' LT. STA 7+31 ELEV. 711.40
B.M.#3 SPIKE IN ROOT OF 18" SPRUCE 54' LT. STA 11+41 ELEV. 707.03
TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
SHEET 6A

14


BM No 6
12" Hemlock
El: 705.16
BM No 7
twin 15" hemlock
El: 704.18
BM No 4
36" Maple
716.88
STATE OF VERMONT
MARTIN ANDREWS
WARK
Martin Andrews
Maple woods
Δ 16° 57' Lt.
D 3°
R 1910.1
T 284.6
L 565.0
E 21.1
P.I. 27+91.5
27+91.1
P.T. 23+46.1
P.T. 29+61.8
P.O.T. 16+90.6
P.I. 20+61.7
20+57.5
P.O.T. 24+99
Δ 6°49' Rt.
D 2°
R 2864.9
T 170.6
L 340.0
E 5.1
A. 483
A. 307
A. 96 ±
A. 72 ±
N 18° 30' E
N 1° 35' E
N 8° 22' E
18+57 Rt: 18" R.C.P. Length 68 Ft. (Sheet 5-28) Removed & Construct open ditch across old road after new road is opened to traffic.
21+69 Rt: 18" R.C.P. Removed & Construct open ditch across old road after new road is opened to traffic.
22+50 Rt: 10" V.C.P. Remove
26+50 Rt: 15" R.C.P. Remove & Construct open ditch across old road after new road is opened to traffic.
29+50 Rt: 15" R.C.P. Remove & Construct open ditch across old road after new road is opened to traffic.
31+50 Rt: 18" R.C.P. (Sheet 5-28) Remove existing 18" R.C.P. & Construct open ditch across old road after new road is opened to traffic. Removed
26+50 18" R.C.P. Length 44 Ft. (Sheet 5-28)
21+50 18" R.C.P. Length 58 Ft. with Cleft Top Grate Sump Box (Sheet 5-28)
21+50 Construct Riprap to House & Barn.
22+50 15" C.M.P.A. Length 64 Ft. (Sheet 5-28)
6" W.I. House Drain Length 96 Ft.
Remove (Item 109)
Remove (Item 10-11)
Remove (Item 37-11)
Bound 40.0°
Bound 52.0
Bound 59.0
Elev. 680.8
Elev. 672.5
Elev. 657.4
Sta 11+ 39
Sta 24 to 31+4
-0.700%
+0.538%
+0.500%
-0.556%
22+00
400' V.C.
625.00
17+00
400' V.C.
688.50
REV.
31+00
400' V.C.
689.50
16+00 -
15" Sub-base q
Grade Raised with Additional Gravel
4" Subdr. Underdrain Grades-3
B.M. #4 Spike in root of 36" Maple, 115 ft. ℄ of Sta 17+89 - Elev. 716.88
B.M. #6 Spike in root of 12" Hemlock, 64 ft. ℄ of Sta 25+36 - Elev. 705.16
B.M. #7 Spike in root of 15" Twin Hemlock, 64 ft. ℄ of Sta 31+85 - Elev. 704.18
WRIGHTSVILLE (SECTION 1)
SERIES STATE No 212-L
SHEET 7 OF 125 SHEETS
15



BM #4 SPIKE IN ROOT OF 24" MAPLE 39' LT. STA. 17+53 ELEV. 716.88
BM #5 SPOT ON LEDGE 41' LT STA 20+60 ELEV 694.42
BM #6 SPIKE IN ROOT OF 12" HEMLOCK 40' LT STA 23+31 ELEV. 705.16
BM #7 " " " " " TWIN " 43' LT. STA 31+62 ELEV. 704.18

TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
SHEET 7A

16

F.A. ROAD DIST. NO.	STATE	STATE PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	VT.	212-L	1940	8	125

BM N° 8
12" Spruce
700.30

Pc. 32+46.8

Δ 11° 14' Lt.
D 3°
R 1910.1
T 187.8
L 374.4
E 3.2

Pt. 42+20.6

LOWE

STATE OF VERMONT

WARK

Bound B5.0

A. 514

Remove 1 Elm 10"

Remove 1 Elm 10"

STATE OF VERMONT

N 8°22' E

N 2°52' W

to Worcester

33+50 — 24" C.G.M.P.A.C. Length 44 Ft. with headwall on Lt (Sheet S-28). Outlet ditch to be constructed across old road after new road is opened to traffic.

33+93 Rt: 24" C.M.P. Removed after new road is opened to traffic.

37+50 — 24" C.M.P. Remove & Extend 36 Ft. with 24" C.G.M.P.A.C. (Sheet S-28)

40+15.5: 18" C.M.P.—culvert Remove & Extend 14 Ft. with 18" C.G.M.P.A.C. (Sheet S-28)

43+71 : 24" C.M.P.

34+30 18" C.G.M.P.A.C. Length 44 Ft. with Concrete Headwall (Lt. & Rt.) (Sheet S-28)

sta 31+64 ± 37
A. 560 ±

sta 37 ± 42
A. 404 ±

P.I. 40+34.0 = 40+32.8

P.O.T. 43+50

BM N° 9
15" Spruce
El: 716.64

STA 42+00
End Section #1
State 212-L

STA. 42+00
Begin Section B
State 212-L

39+00 ✓
600 VC ✓
684.00 ✓

+2.800%

-0.800% -0.556% -0.500%

32+00 – 41+00
15" Sub-base of Gravel
Grade Raised with Additional Gravel

41+00-42+00
Shoging Course of Gravel

720
710
700
690
680
670

32 +50 33 +30 +75 +93 34 +50 35 +50 36 +50 37 +50 +35 +50 +65 38 +25 +50 39 +50 40 +135 +50 41 +50 42 +50 43 +50 44

B.M.# 8 Spike in root of 12" Spruce, 4.5 ft. lt. of Sta. 38+32 – Elev. 700.30
B.M.# 9 Spike in root of 15" Spruce, 33 ft. rt. of Sta. 44+12 – Elev. 716.64

WAIGHTSVILLE (SECTION 1)
SERIES STATE No 212-L
SHEET 8 OF 125 SHEETS

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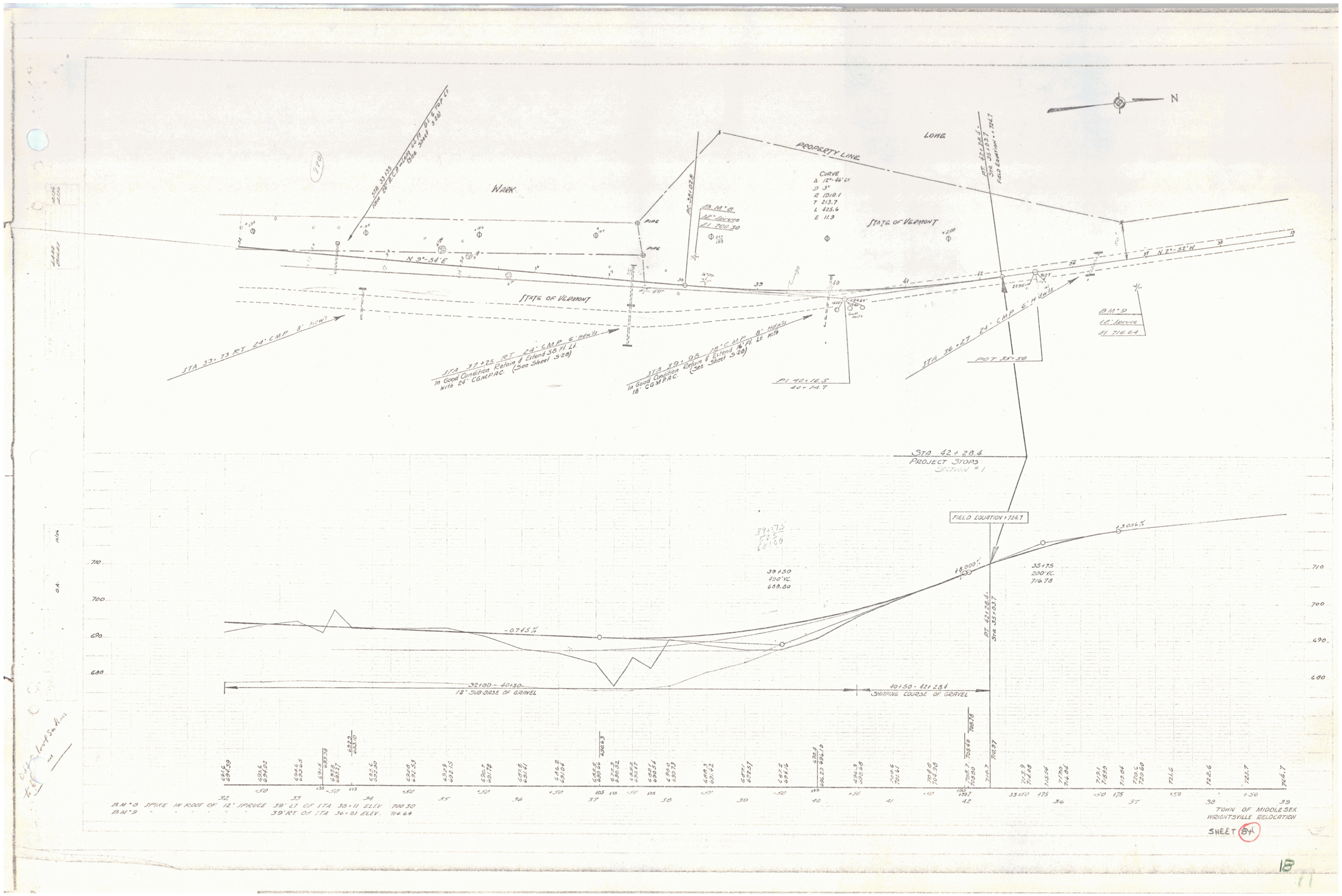
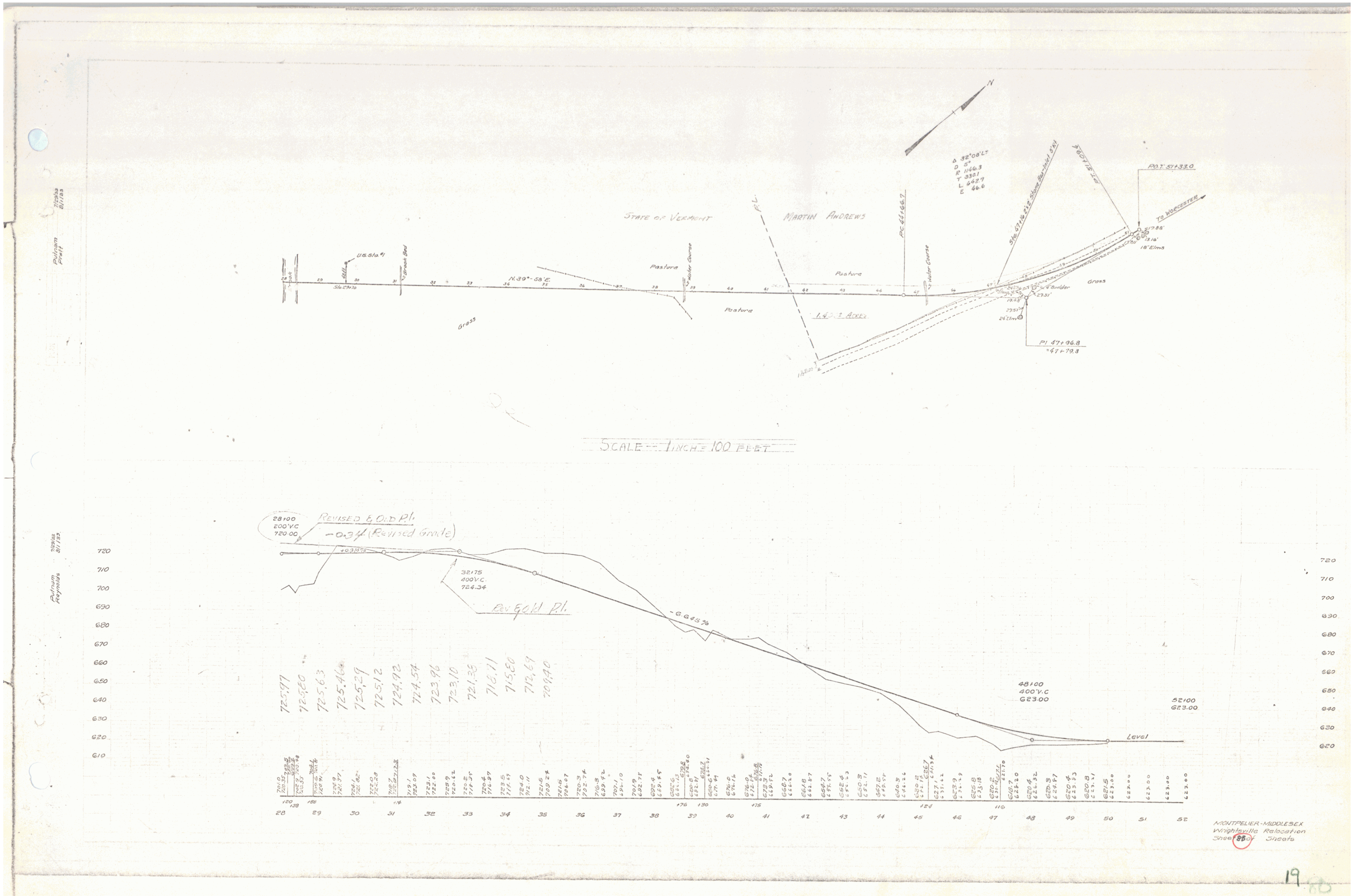

STA 33+33
Inst 48" RCP-HW
Dis Top Lt
See Sheet 3-30
WARK
PIPE
PIPE
PC STA 1028
BM #2
12" Spruce
El 700.30
PROPERTY LINE
LOWE
STATE OF VERMONT
STATE OF VERMONT
Curve
Δ 12°-46' Lt
D 3°
R 1910.1
T 213.7
L 423.6
E 11.9
PT STA 42+36.4
STA 35+03.7
FIELD EQUATION = 724.7
N 9°-54' E
N 7°-52' W
STA 33+73 RT 24" CMP 6" Hdwll
STA 37+25 RT 24" CMP 6" Hdwll
In Good Condition With 24" CGMP PAC.
Retain & Extend 58 Ft Lt
(See Sheet 3-28)
STA 39+00 18" CMP 8" Hdwll
In Good Condition 18" CGMP PAC.
Retain & Extend 16 Ft Lt. Hdwll
(See Sheet 3-28)
PI 36+16.5
40-14.7
STA 36+27 24" CMP 6" Hdwll
POT 35+50
BM #1
12" Spruce
El 716.64
STA 42+28.4
PROJECT STOPS
SECTION #1
FIELD EQUATION = 724.7
39+75
5.5
6.0
39+50
190' VC.
668.80
35+75
200' VC.
716.78
-0.745%
+8.000%
+3.056%
PT 421+28.4
STA 35+03.7
32+90 - 40+50
12" SUB BASE OF GRAVEL
40+50 - 421+28.4
WEARING COURSE OF GRAVEL
BM #3 SPIKE IN ROOT OF 12" SPRUCE 39' LT. OF STA 38+11 ELEV. 700.30
BM #2 " " " " 39' RT OF STA 36+01 ELEV. 716.64
TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
SHEET 84


Putnam Pratt 7/29/33 8/1/33
U.S. Sta. #1
Sta. 29+70
Brook Bed
N. 39° - 58' E.
Grass
Pasture
Water Course
STATE OF VERMONT
P.L.
MARTIN ANDREWS
P.C. 44+66.7
1.43± Acres
Δ 32°08' LT.
D 5°
R 1146.3
T 330.1
L 642.7
E 46.6
N
Sta. 47+16 2'x2' Stone Box-Inlet 8' Rt.
P.T. 51+09.4
P.O.T. 51+33.0
TO WORCESTER
17.88'
13.16'
17.80'
18" Elms
4' Boulder
27.51'
19.48'
24" Elm
P.I. 47+96.8
=47+79.3
SCALE — 1 INCH = 100 FEET
Putnam Reynolds 7/29/33 8/1/33
28+00
200' V.C.
720.00
REVISED & OLD P.I.
-0.34 (Revised Grade)
+0.914%
32+75
400' V.C.
724.34
Rev. & Old P.I.
-6.645%
48+00
400' V.C.
623.00
52+00
623.00
Level
725.97
725.80
725.63
725.46
725.29
725.12
724.92
724.54
723.96
723.10
721.38
718.71
715.80
712.69
709.40
720
710
700
690
680
670
660
650
640
630
620
610
28
29
30
31
32
33
34
35
36
37
38
39
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42
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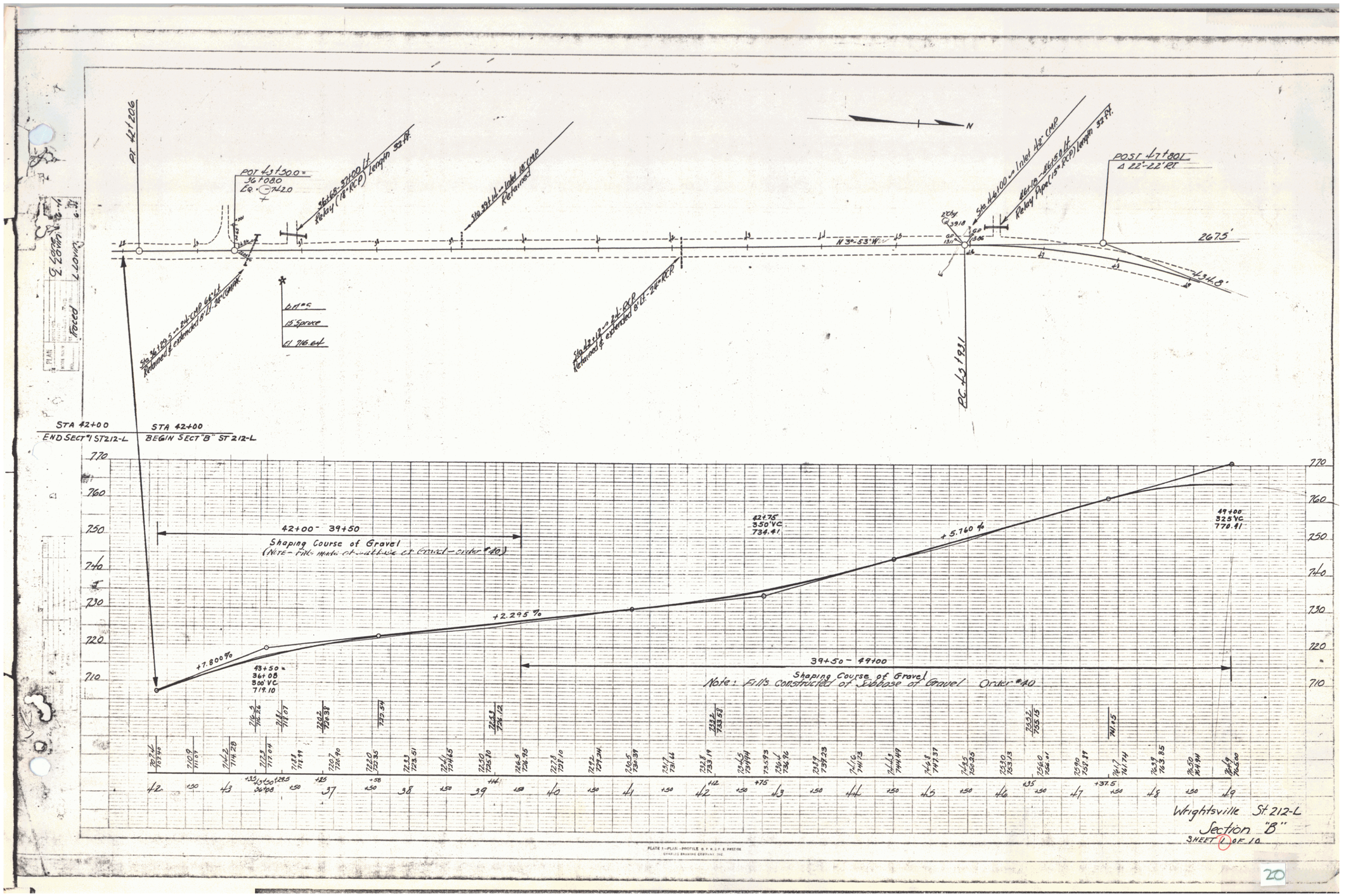
52
MONTPELIER-MIDDLESEX
Wrightsville Relocation
Sheet 88 of Sheets


Pl. 42+206
POT 43+30.0 = 36+08.0 Lt. = 742.0
Sta 42+75 - 37.00 Lt. Relay (18" RCP) length 32 Ft.
Sta. 39+41 Lt. = Inlet 18" CMP Returned
Sta 36+20.5 = 24" CMP Returned & extended 6 Lt. - 26° Skew
Sta 42+19 = 24" RCP Returned & extended 6 Lt. - 26° RCP
Sta 46+00 = Inlet 42" CMP
Sta 46+18 - 46+50 Lt. Relay Pipe (15" RCP) length 32 Ft.
POST 47+80 L
Δ 22°-22' Rt.
N 3°-53' W
267.5'
134.8'
Pl. 49+19.1
STA 42+00 END SECT "A" ST 212-L
STA 42+00 BEGIN SECT "B" ST 212-L
42+00 - 39+50 Shaping Course of Gravel (NOTE - Fills made of subbase of Gravel - order #10)
+7.800 %
+2.295 %
+5.760 %
43+50 = 36+08 30.00' VC 719.10
42+75 3.50' VC 734.41
49+00 32.5' VC 770.41
39+50 - 49+00 Shaping Course of Gravel
Note: Fills constructed of subbase of Gravel Order #10
Wrightsville St. 212-L
Section "B"
SHEET 4 OF 10
PLATE 1 - PLAN - PROFILE

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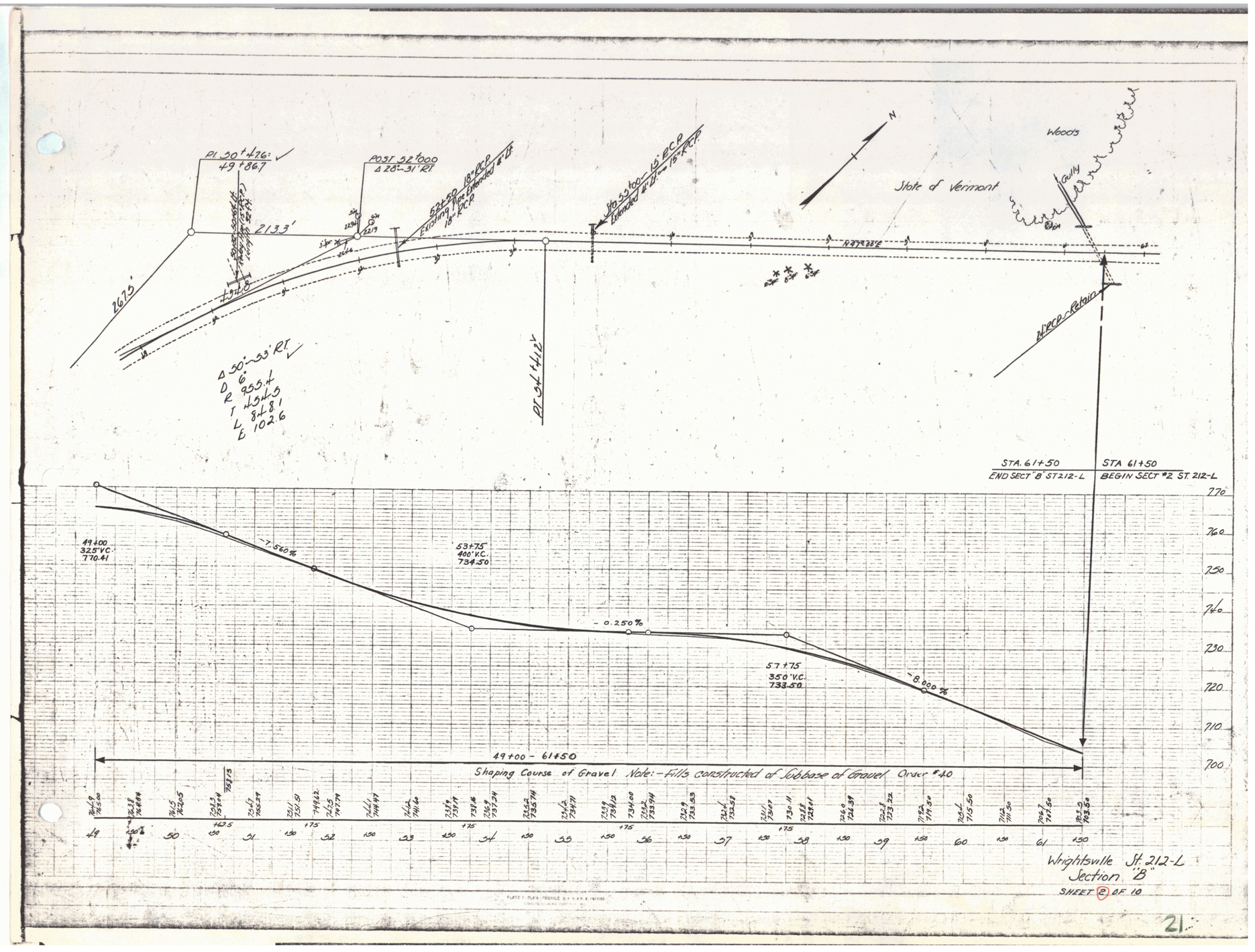
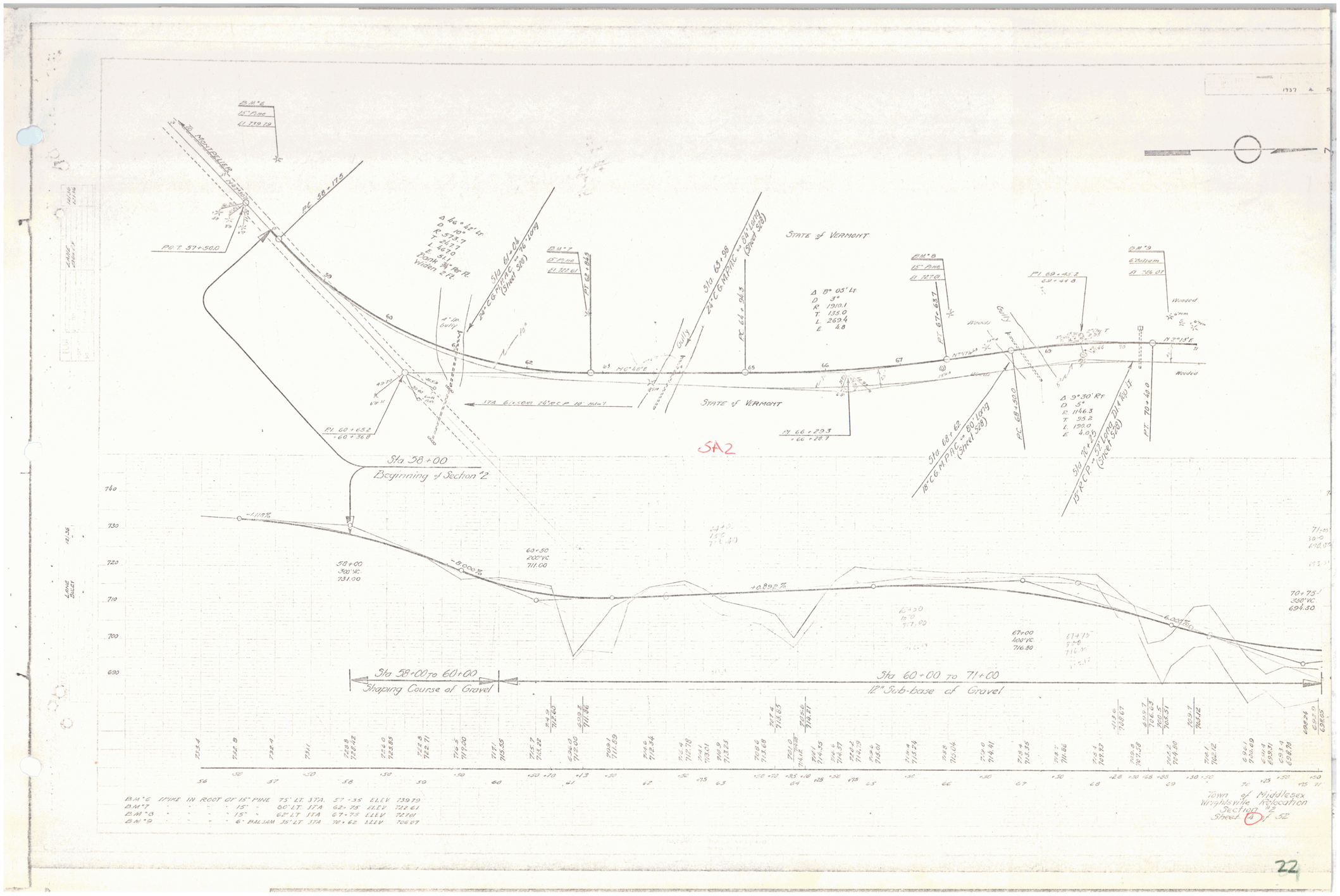

Pl. 50+476
49+867
POST 52+000
Δ 28°-31' RT.
52+52 18" RCP
Existing Pipe Extended w/ 18" RCP
Sta 53+00 - 15" RCP
Extended w/ 15" RCP
State of Vermont
Woods
Gully
2133'
2675'
Δ 30°-33' RT
D 6°
R 955.4
T 453.5
L 842.1
E 102.6
PI 54+12
24" RCP - Retain
STA. 61+50
END SECT "B" ST 212-L
STA 61+50
BEGIN SECT #2 ST. 212-L
49+00
32.5' V.C.
770.41
-7.560%
53+75
400' V.C.
734.50
-0.250%
57+75
350' V.C.
733.50
-8.000%
49+00 - 61+50
Shaping Course of Gravel Note:- Fills constructed of Subbase of Gravel Order #40
Wrightsville St. 212-L
Section "B"
SHEET 2 OF 10
21


To MONTPELIER
PC 58+17.5
PO.T. 57+50.0
Δ 46° 42' Lt
D 10°
R 573.7
T 247.7
L 467.0
E 51.1
Bank 3% Rt. R.
Widen 2 Ft.
Sta 61+04
24° C.G.M.P.A.C. on 76' Long
(Sheet 528)
BM #7
12" Pine
El 712.61
PT 62+84.3
Sta 63+98
24° C.G.M.P.A.C. on 84' Long
(Sheet 528)
PC 64+94.3
STATE of VERMONT
Δ 8° 05' Lt
D 3°
R 1910.1
T 135.0
L 269.4
E 4.8
BM #8
12" Pine
El 717.01
PT 67+63.7
PI 69+43.7
69+44.8
BM #9
6" Balsam
El 706.07
Weeded
Gully
4" Up
Gully
10°
PI 60+65.2
=60+36.8
ITA 61+30.4 24" R.C.P. 18' Min.
STATE of VERMONT
PI 66+29.3
=66+28.7
Δ 9°30' Rt
D 5°
R 1146.3
T 95.2
L 190.0
E 4.0
PC 68+60.0
PT 70+40.0
Sta 68+62
18" C.G.M.P.A.C. on 80' Long
(Sheet 528)
Sta 70+40
15" R.C.P. on 80' Long (All Alu.) LT
(Sheet 528)
Sta 38+00
Beginning of Section 12
-1.119%
-8.000%
+0.892%
-6.000%
58+00
300' V.C.
731.00
60+50
200' V.C.
711.00
67+00
100' V.C.
716.80
70+75
350' V.C.
694.50
Sta 58+00 to 60+00
Shaping Course of Gravel
Sta 60+00 to 71+00
12" Sub-base of Gravel
BM #6 SPIKE IN ROOT OF 15" PINE 75' LT. STA. 57+35 ELEV 739.79
BM #7 " " " " 15" " 80' LT. STA 62+75 ELEV. 712.61
BM #8 " " " " 15" " 62' LT. STA 67+75 ELEV. 717.01
BM #9 " " " 6" BALSAM 35' LT. STA 70+62 ELEV 706.07
Town of Middlesex
Wrightsville Relocation
Section 12
Sheet 4 of 52
SA2
22

State
212-L 1960 29 125

BM #7
15" Pine
El. 722.61

Δ 44°-16' Lt.
D 10°
R 573.7
T 233.1
L 442.3
E 45.5
Bank 1' per ft.
Do not widen

Woods

Remove Item 103

Spring House

State of Vermont

State of Vermont

Montpelier

57 Metres

P.O.T. 57+50

P.O.T. 61+50

Pl. 60+66.0
-60+40.1

Sta. 58+50
Begin Shady Rill Road
State 212-L

-3.00%

Per Curve
62+00
450' V.C.
700.90

+3.40%

730
720
710
700

Sta. 58+50-59+50
Shaving Case of Grav.

Sta. 59+50 - 64+0
12" Subbase of Gravel

57+50 58 +50 59 +50 60 +50 +75 61 +07 +25 +50 62 +50 +75 63 +50 +75 +91 64

BM #7 S.I.R. 15" Pine 86 Ft. Lt. Sta. 62+70 El. 722.61

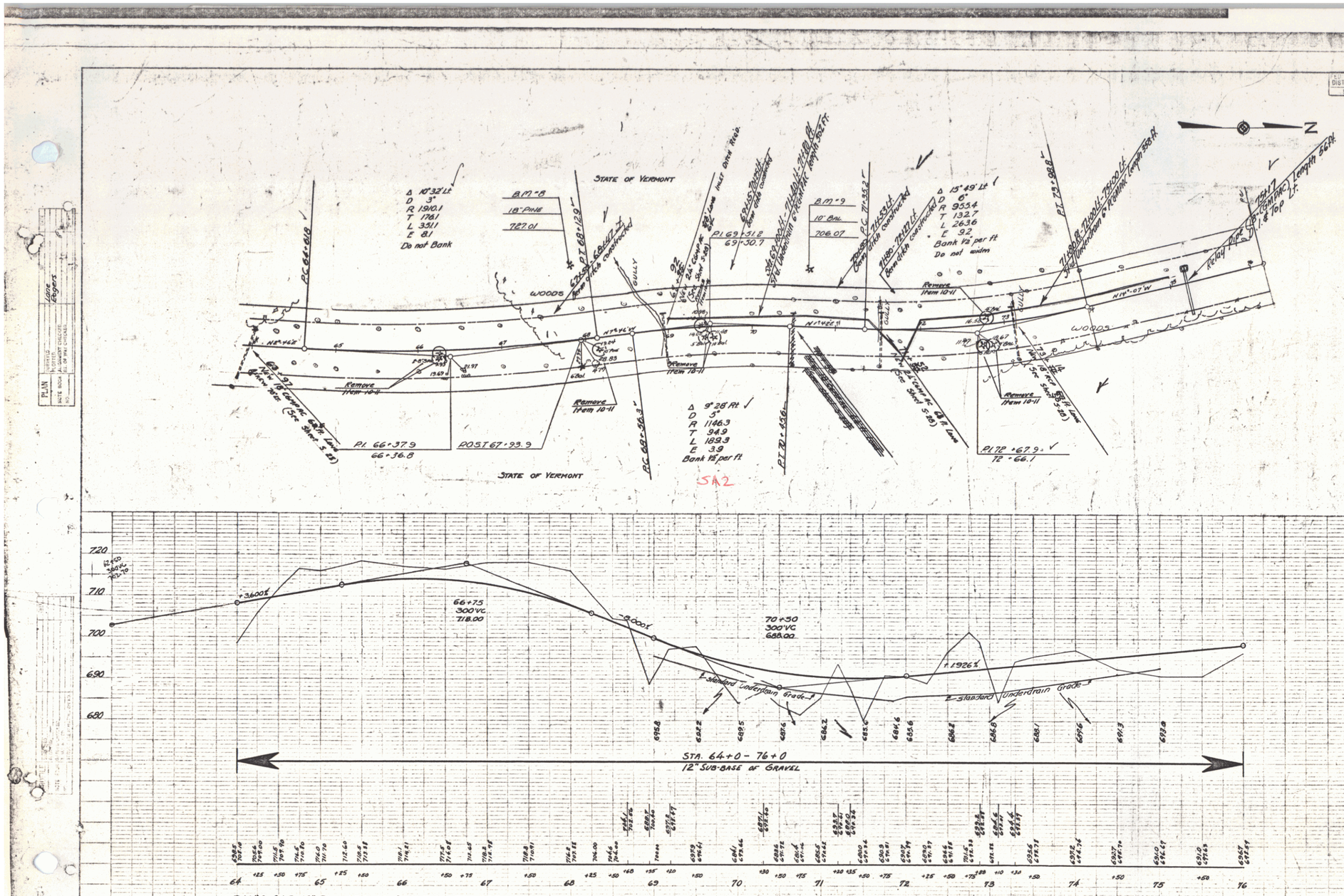
Wrightsville - Shady Rill Road
Series St. 212-L
Sheet 29 of 125 Sheets

23

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	YEAR	SHEET NO.
2	VT	212L	1940	30 125

PLAN
LOCATED
PLOTTED
INKED BOOK ALIGNMENT CHECKED
NO. BRIDGE CONTROLS

Lane Engrs



B.M.#8. S.I.R. 18" Pine. 87 Ft. Lt. Sta. 67+91. Elev. 727.01.
B.M.#9. S.I.R. 10" Balsam 64 Ft. Lt. Sta. 70+68. Elev. 706.07.

WRIGHTSVILLE (SECTION 2)
SHADY HILL ROAD
SERIES STATE NO. 212L
SHEET 30 OF 125 SHEETS

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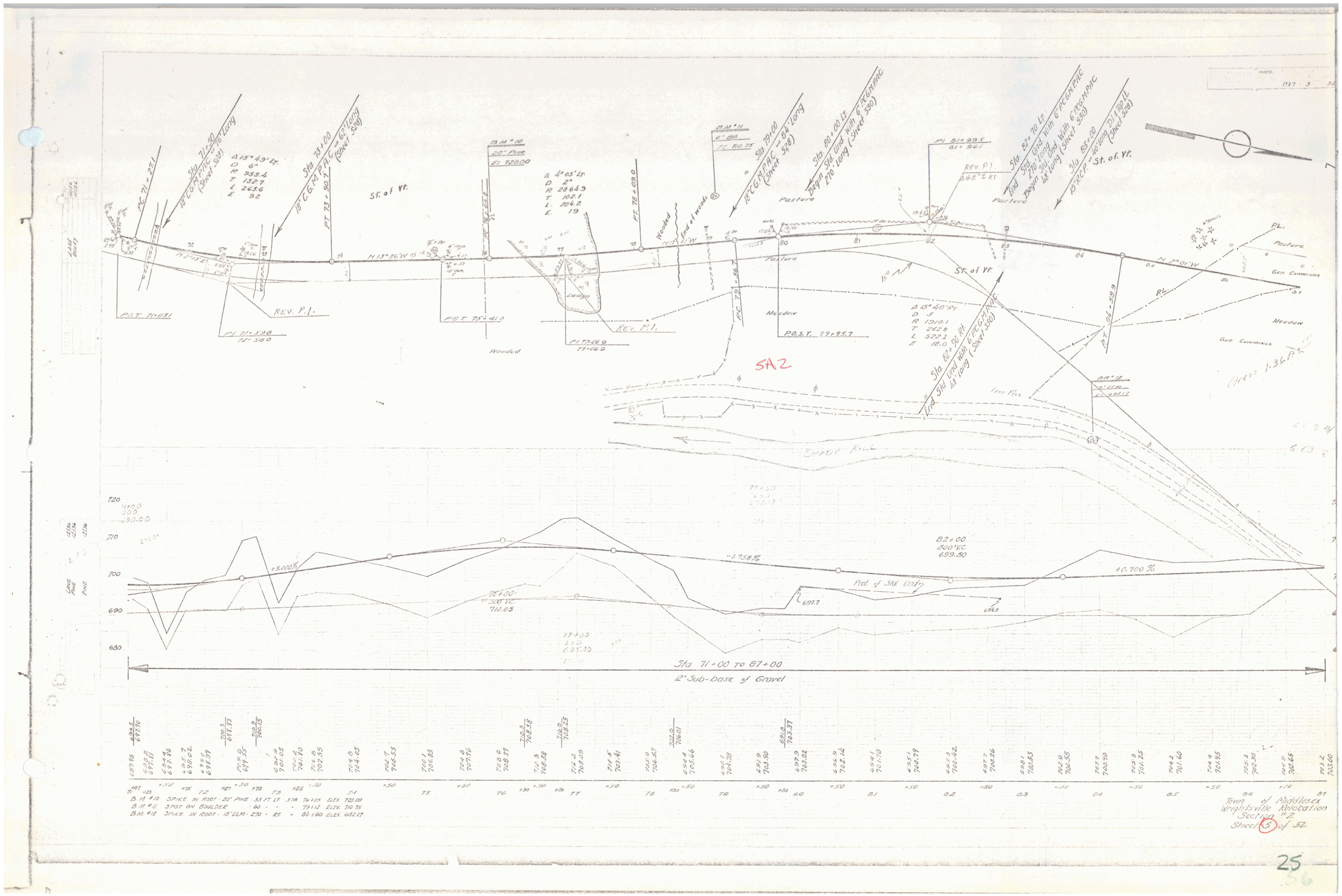
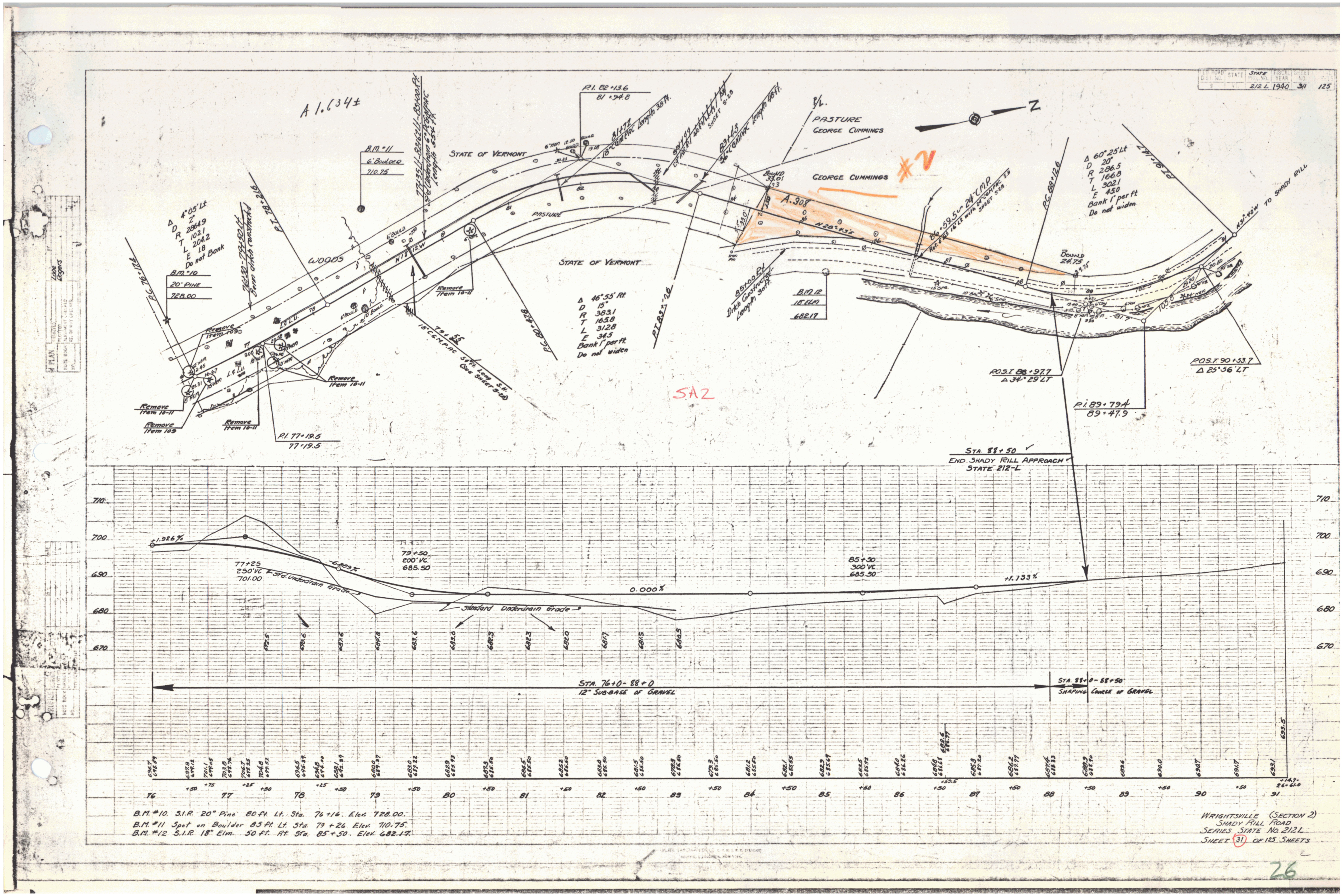
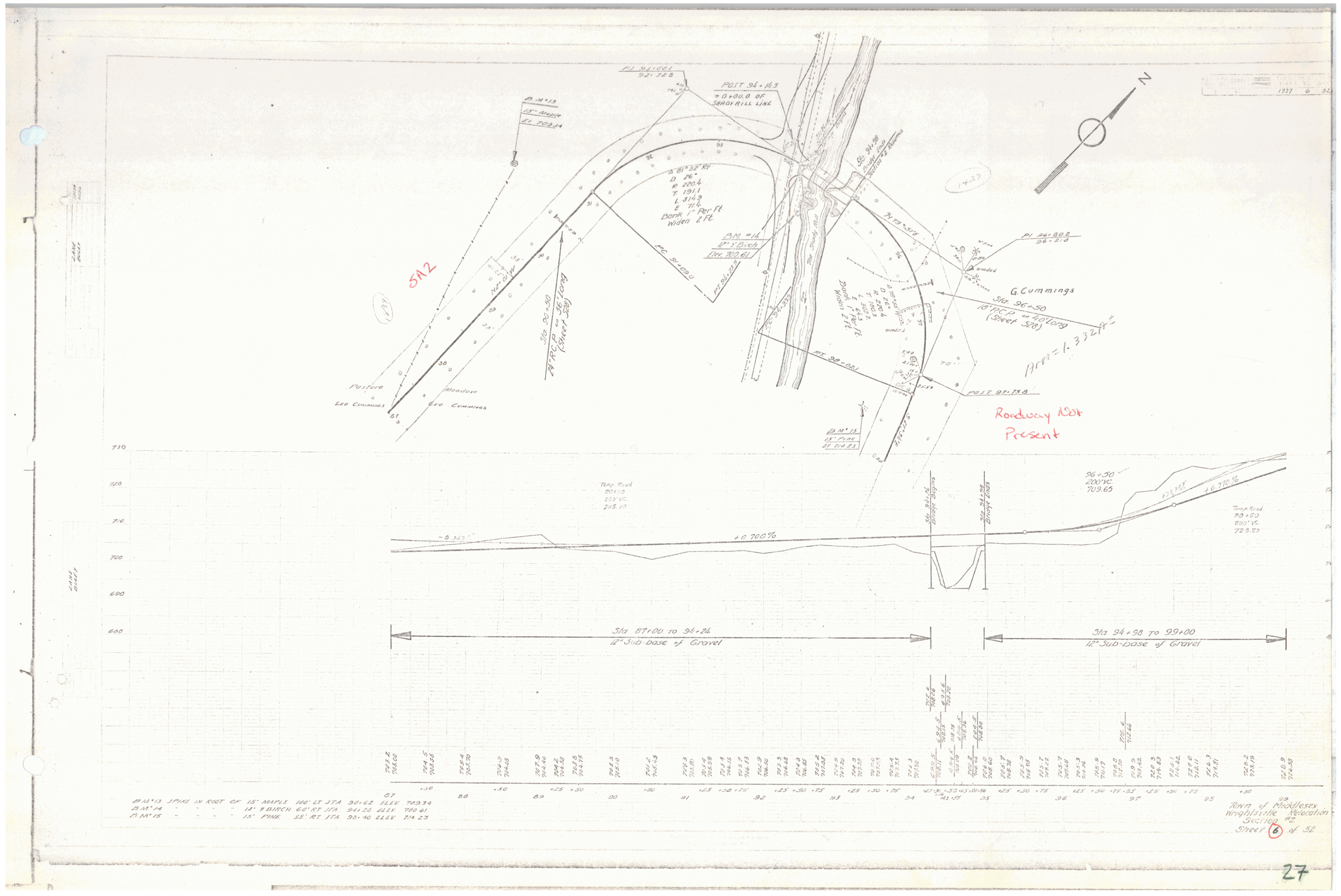

Sta 71+20 18°C.G.M.P.A.C. → 70' Long (Sheet 52B)
Δ 13°49' Lt.
D 6°
R 955.4
T 132.7
L 263.6
E 9.2
P.C. 71+23.1
Sta 73+00 18°C.G.M.P.A.C. → 62' Long (Sheet 52B)
P.T. 73+90.7
St. of Vt.
BM #10 20" Pine El 722.00
Δ 4°05' Lt.
D 2°
R 2864.9
T 102.1
L 204.2
E 1.9
P.T. 76+09.0
Wooded
End of woods
BM #11 El 730 Tr 710.75
Sta 79+60 18°C.G.M.P.A.C. → 84' Long (Sheet 52B)
Sta 80+00 Lt. Begin Std. Und. with 6" PCGMPAC 270' Long (Sheet 53D)
Pasture
P.I. 81+39.5 81+96.1
Rev. P.I. Δ 48°1 Rt
Sta 82+70 Lt. End Std. Und. with 6" PCGMPAC 270' Lt. Begin Std. Und. with 6" PCGMPAC 18' Long (Sheet 53D)
Sta 85+00 15" RCP → 40' Long D.I. & 30' R.L. (Sheet 52B)
St. of Vt.
P.L.
Geo. Cummings
P.O.T. 71+03.1
Rev. P.I.
P.I. 77+59.8 721.59.0
P.O.T. 75+41.3
P.I. 77+06.9 771.06.9
P.O.S.T. 79+95.7
Δ 15°40' Rt
D 4°
R 1310.1
T 262.8
L 522.2
E 18.0
Sta 82+00 Lt. End Std. Und. with 6" PCGMPAC 18' Long (Sheet 53D)
P.T. 84+58.9
Meadow
Iron Pipe
BM #12 El 682.17
SHADY HILL
5A2
Area = 1.36 A
720
710
700
690
680
+3.000%
-1.758%
+0.700%
764.00' 300' V.C. 710.05
832.00 300' V.C. 699.50
Prof. of Std. Und.
697.7
694.8
Sta. 71+00 to 87+00
12" Sub-base of Gravel
B.M. #10 SPIKE IN ROOT - 20" PINE - 55 FT. LT. - STA 76+05 ELEV. 722.00
B.M. #11 SPOT ON BOULDER - 60 - " - 79+12 ELEV. 710.75
B.M. #12 SPIKE IN ROOT - 18" ELM - 270 - RT. - 84+80 ELEV. 682.17
Town of Middlesex Wrightsville Relocation Section #2
Sheet 5 of 52
25



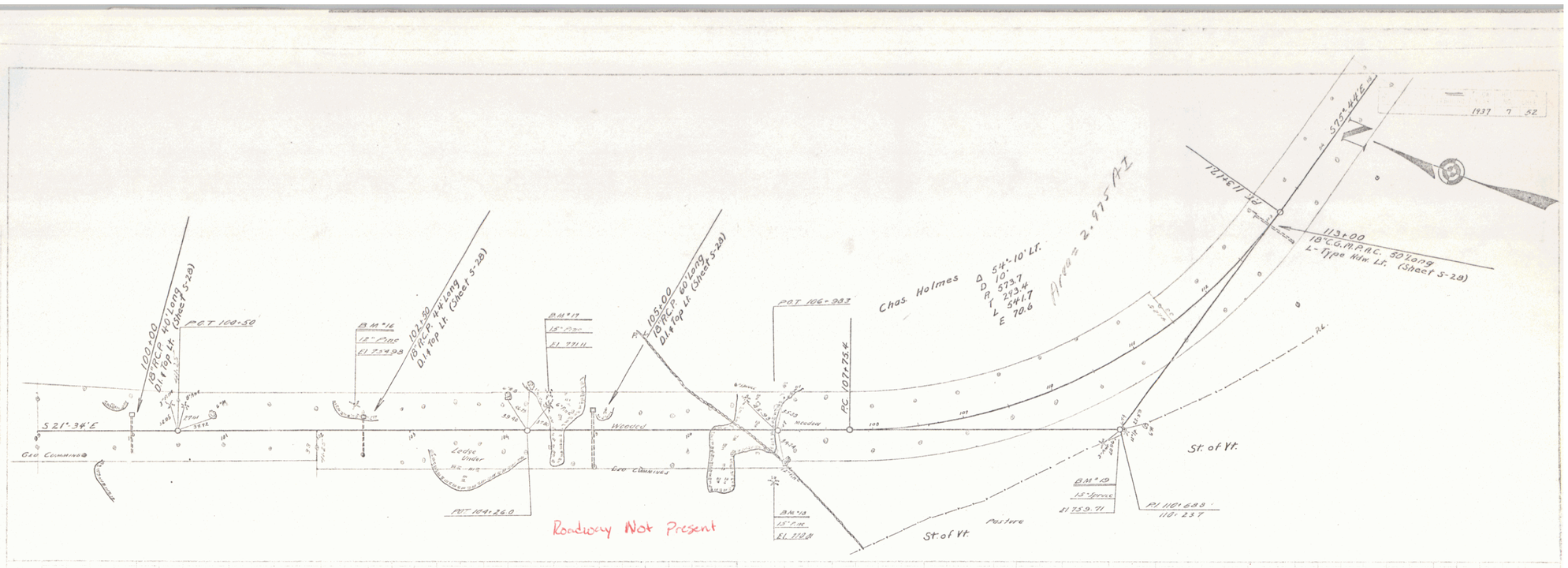
FED. ROAD DIST. NO. 9 | STATE VT. | STATE PROJ. NO. 212 L | FISCAL YEAR 1940 | SHEET NO. 31 | TOTAL SHEETS 125
A 1.634±
B.M. #11
6' Boulder
710.75
B.M. #10
20" Pine
728.00
Δ 4°05' Lt
D 2°
R 2864.9
T 102.1
L 204.2
E 1.8
Do not Bank
P.C. 76+17.4
P.I. 78+21.6
76+30 - 79+50 Lt. Berm ditch constructed
77+35 Lt. - 82+62 Lt. - 83+00 Rt. Std. Underdrain 6" P.C.M.P.A.C Length 554 Ft.
WOODS
N 18° 12' W
Remove Item 109
Remove Item 10-11
Remove Item 10-11
Remove Item 109
Remove Item 10-11
Remove Item 10-11
Remove Item 10-11
P.I. 77+19.5
77+19.5
79+55 18" C.G.M.P.A.C 54 Ft. Long S.H. (See Sheet S-28)
STATE OF VERMONT
PASTURE
STATE OF VERMONT
P.I. 82+13.6
81+94.8
81+72 18" C.G.M.P.A.C Length 38 Ft.
83+43 36" C.G.M.P.A.C Length 48 Ft.
SHEET S-28
Δ 46°55' Rt
D 15°
R 383.1
T 165.8
L 312.8
E 34.5
Bank 1" per ft.
Do not widen
P.C. 80+47.8
P.T. 83+60.6
P/L
PASTURE
GEORGE CUMMINGS
GEORGE CUMMINGS
#2
Bound 33.01
A. 308
N 28° 43' E
85+00 Rt. Ditch Constructed Length 30 ft.
B.M. 12
18" ELM
682.17
86+59.5 24" C.M.P. Ret. & Ext. 16' Lt. with 24" C.G.M.P.A.C S.H. SHEET S-28
P.C. 88+12.6
Bound 24.75
Δ 60°25' Lt
D 20°
R 286.5
T 166.8
L 302.1
E 45.0
Bank 1" per ft
Do not widen
P.T. 91+14.2
N 31° 42' W TO SHADY RILL
P.O.S.T. 88+97.7
Δ 34°29' LT
P.I. 89+79.4
89+47.9
P.O.S.T. 90+53.7
Δ 25°56' LT
SA2
STA. 88+50
END SHADY RILL APPROACH
STATE 212-L
710
700
690
680
670
+1.926%
77+25
250' VC
701.00
Std. Underdrain Grade
-6.889%
79+50
200' VC
685.50
0.000%
Standard Underdrain Grade
85+50
300' VC
685.50
+1.133%
692.5
690.6
687.6
684.8
683.6
683.0
682.5
682.3
682.0
681.7
681.5
680.5
693.5
STA. 76+0 - 88+0
12" SUB-BASE OF GRAVEL
STA. 88+0 - 88+50
SHAPING COURSE OF GRAVEL
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
B.M. #10. S.I.R. 20" Pine 80 ft. Lt. Sta. 76+16. Elev. 728.00.
B.M. #11 Spot on Boulder 85 ft. Lt. Sta. 79+26. Elev. 710.75.
B.M. #12 S.I.R. 18" Elm. 50 ft. Rt. Sta. 85+50. Elev. 682.17.
WRIGHTSVILLE (SECTION 2)
SHADY RILL ROAD
SERIES STATE NO. 212L
SHEET 31 OF 125 SHEETS



B.M.#13 SPIKE IN ROOT OF 15" MAPLE 100' LT STA 90+62 ELEV. 709.34
B.M.#14 " " " " 12" Y. BIRCH 60' RT STA 94+20 ELEV. 700.61
B.M.#15 " " " " 15" PINE 55' RT STA 98+90 ELEV. 714.23

Town of Middlesex
Wrightsville Relocation
Section 42
Sheet (6) of 52

27


100+00
18" R.C.P. 40' long
Dit Top Lt. (Sheet S-28)
POT 100+50
BM #16
12" Pine
El 734.98
102+00
18" R.C.P. 44' long
Dit Top Lt. (Sheet S-28)
BM #17
15" Pine
El 771.11
105+00
18" R.C.P. 60' long
Dit Top Lt. (Sheet S-28)
POT 106+98.3
Chas. Holmes
Δ 54°-10' Lt.
D 10°
R 573.7
T 293.4
L 541.7
E 70.6
Area = 2.975 Ac.
RC 107+75.4
S 21°-34' E
Geo Cummings
Ledge Under
Wooded
Geo Cummings
Needles
Pasture
St. of Vt.
St. of Vt.
BM #18
15" Pine
El 772.18
POT 104+26.0
BM #19
15" Spruce
El 759.71
Pl 110+69.8
110+23.7
113+00
18" C.G.M.P.A.C. 30' long
L-Type Hdw. Lt. (Sheet S-28)
1937 7 52
Roadway Not Present
Sta. 99+00 to 103+00
12" Sub-base of Gravel
Sta. 103+00 to 112+00
12" Sub-base of Gravel
Sta. 112+00 to 115+00
12" Sub-base of Gravel
Temp. Road
101+00
203' V.C.
760.12
+6.770 %
Temp. Road
104+00
402' V.C.
773.97
108+00
800' V.C.
787.30
Temp. Road
110+00
200' V.C.
776.20
-6.652 %
790
780
770
760
750
740
730
720
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
BM #16 SPIKE IN ROOT OF 12" PINE 30' LT STA. 102+42 ELEV. 734.98
BM #17 " " " " 15" PINE 39' LT STA. 104+50 ELEV. 771.11
BM #18 " " " " 15" " 55' RT STA. 106+95 ELEV. 770.01
BM #19 " " " " 15" SPRUCE 75' RT STA. 110+33 759.71
Town of Middlesex
Wrightsville Relocation
Section 2
Sheet 28 of 52
28

SA2

Pasture

St. of Vt.

Meadow

Meadow

Wooded

Wood

Pl 20+330
Δ 23°-04 Rt

Pl 23+000
Δ 17°-35 Rt

Iron Pipe

24" CMP

SHADY RILL BROOK

BM #12
20" ELM
EL 602.17

Pl 24+42.0
Δ 26°-30 Lt

Pl 26+000
Δ 26°-22 Lt

Δ 61°-Lt

To Shady Rill

18"
1.8 cfs

12"

12.9

2.0

10.9

Flood
E Lane
L Lawn
PLAN

E Lane 9.38
L Lawn 1.39

700
690
680
670

14 +50 10 +50 16 +50 17 +50 18 +50 19 +50 20 +50 21 +50 22 +50 23 +50 24 +50 25 +50 26 +50 27 +50 28 +50 29 +50 30

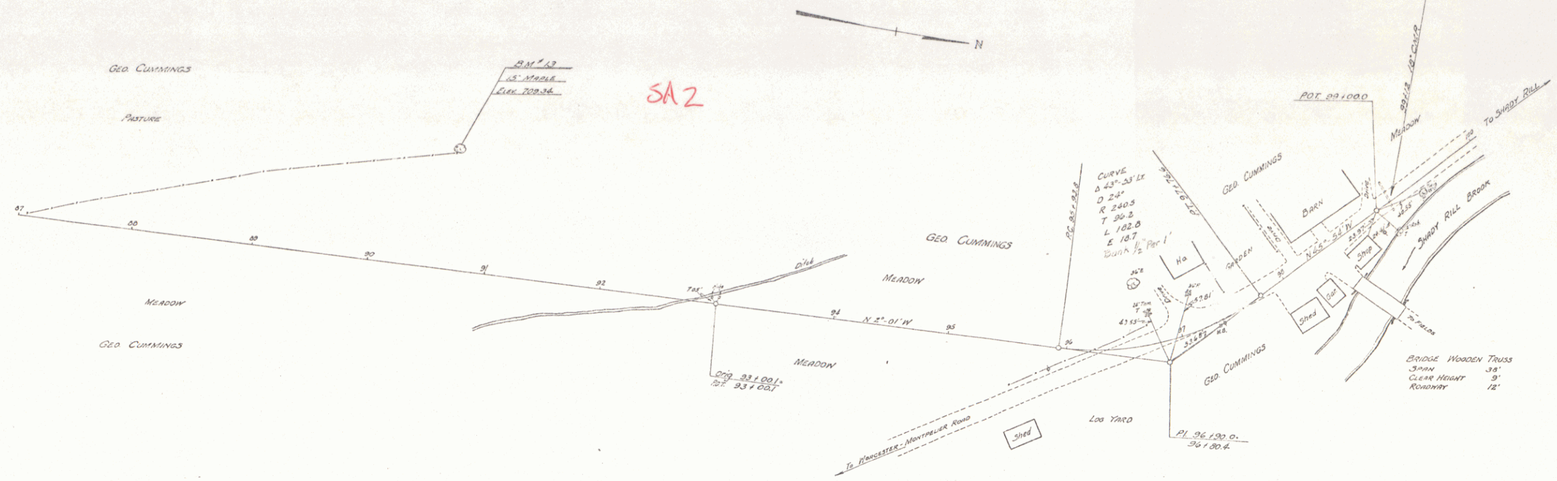
BM #12 SIR 20" ELM Sta 20+87 - 19' Rt EL 602.17

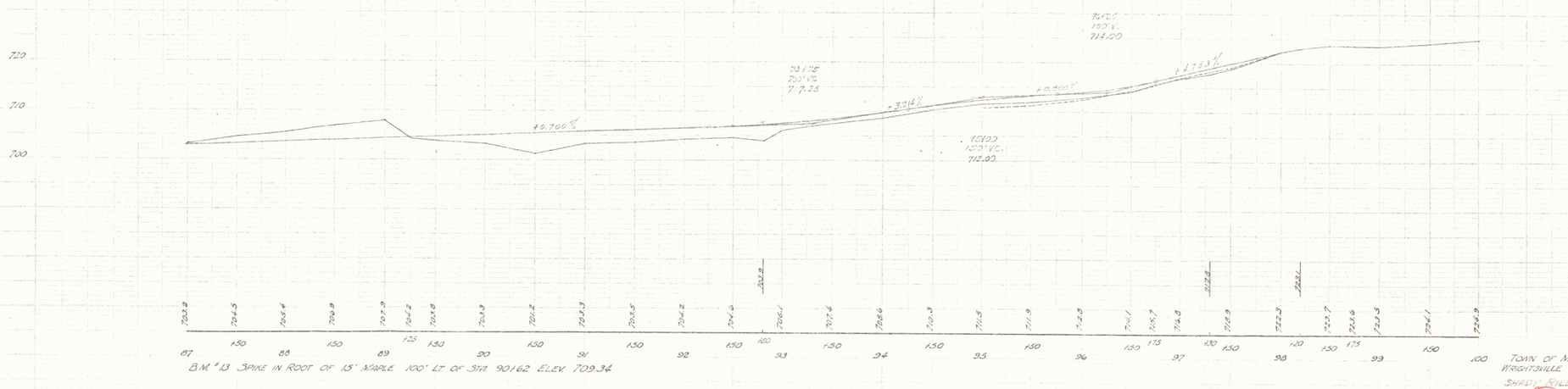
TOWN OF MIDDLESEX
Shady Rill Road Traverse

7A

29

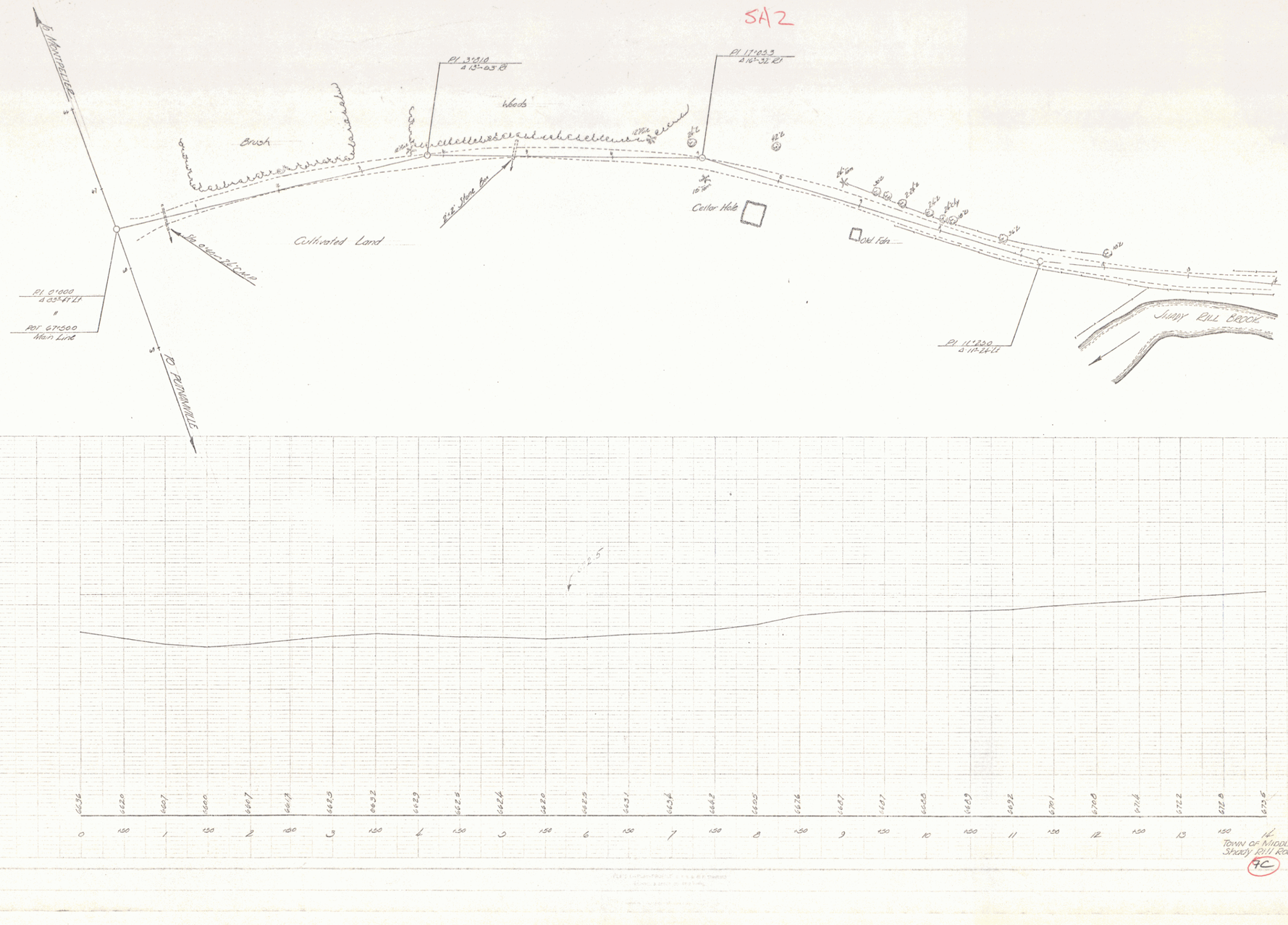
SA2


N
BM #13
15" MAPLE
ELEV. 709.34
GEO. CUMMINGS
PASTURE
MEADOW
GEO. CUMMINGS
MEADOW
GEO. CUMMINGS
MEADOW
GEO. CUMMINGS
Orig. 33 / 001+
Pl 33 / 00.1
N 2°-01' W
Pl 90 / 62.5
CURVE
Δ 43°-33' Lt
D 24°
R 240.3
T 96.3
L 182.8
E 18.7
Batch ½ Per 1'
POT 89 / 080
GEO. CUMMINGS
BARN
N 55°-32' W
SHED
SHED
SHED
SANDY HILL BROOK
TO SANDY HILL
MEADOW
BRIDGE WOODEN TRUSS
SPAN 38'
CLEAR HEIGHT 9'
ROADWAY 12'
GEO. CUMMINGS
LOG YARD
SHED
TO WINCHESTER-MONTPELIER ROAD
Pl 96 / 90.0±
36 / 80.4

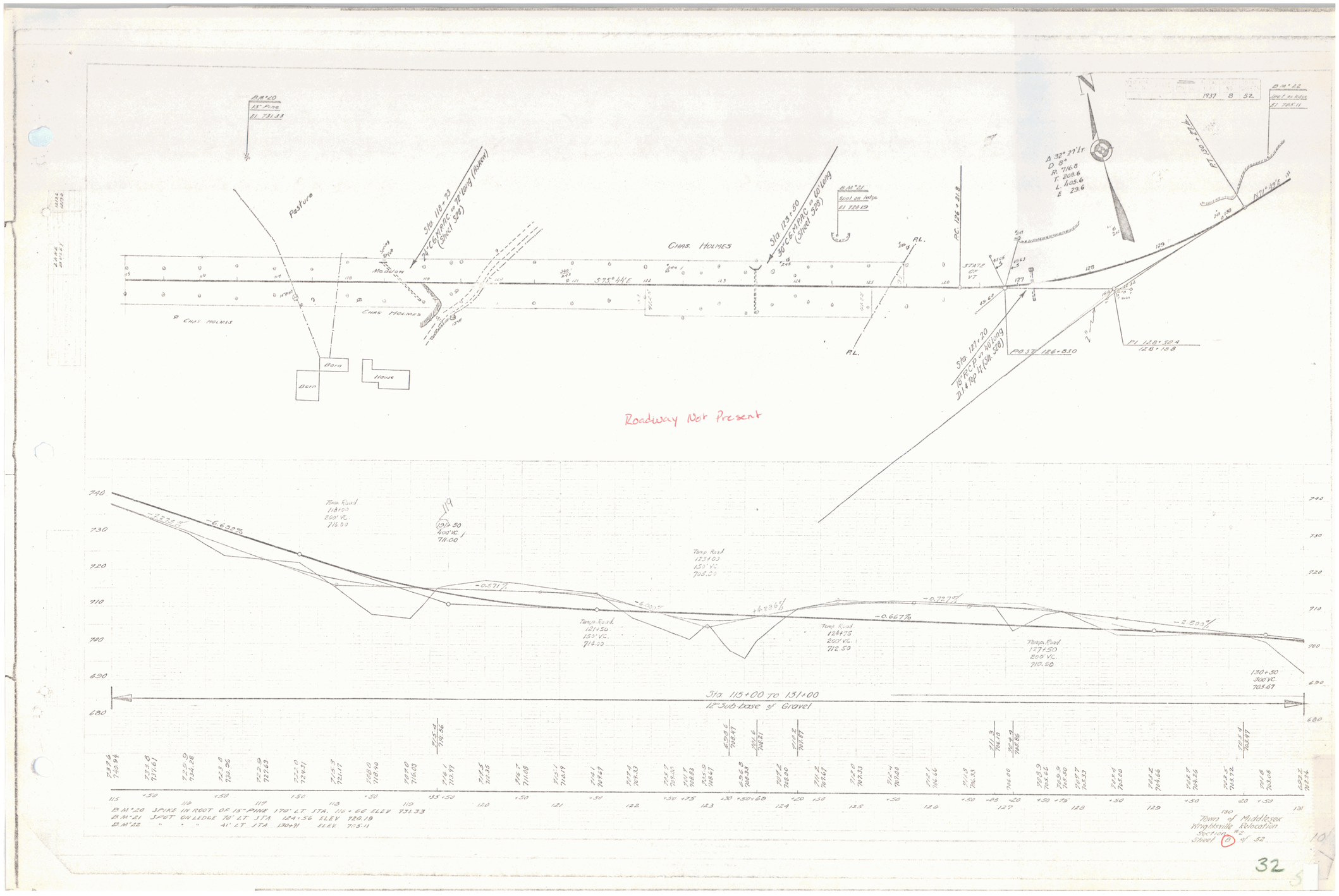

720
710
700
+0.700%
+3.214%
+0.950%
+4.743%
713.75
200' VC.
711.38
714.20
100' VC.
712.00
150' VC.
713.00
703.2 704.5 704.4 704.9 707.9 704.2 703.8 703.9 704.2 703.3 703.5 704.2 704.6 706.1 707.4 708.6 710.3 711.5 711.9 712.5 714.1 715.7 716.8 718.9 722.3 723.7 724.6 724.5 724.1 724.9
87 150 88 150 89 125 150 90 150 91 150 92 150 93 150 94 150 95 150 96 150 97 130 130 98 120 150 175 99 150 100
B.M. #13 SPIKE IN ROOT OF 15" MAPLE 100' LT OF STA 90+62 ELEV. 709.34
TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
SHEET KILL APPROACH
78

30

5A2

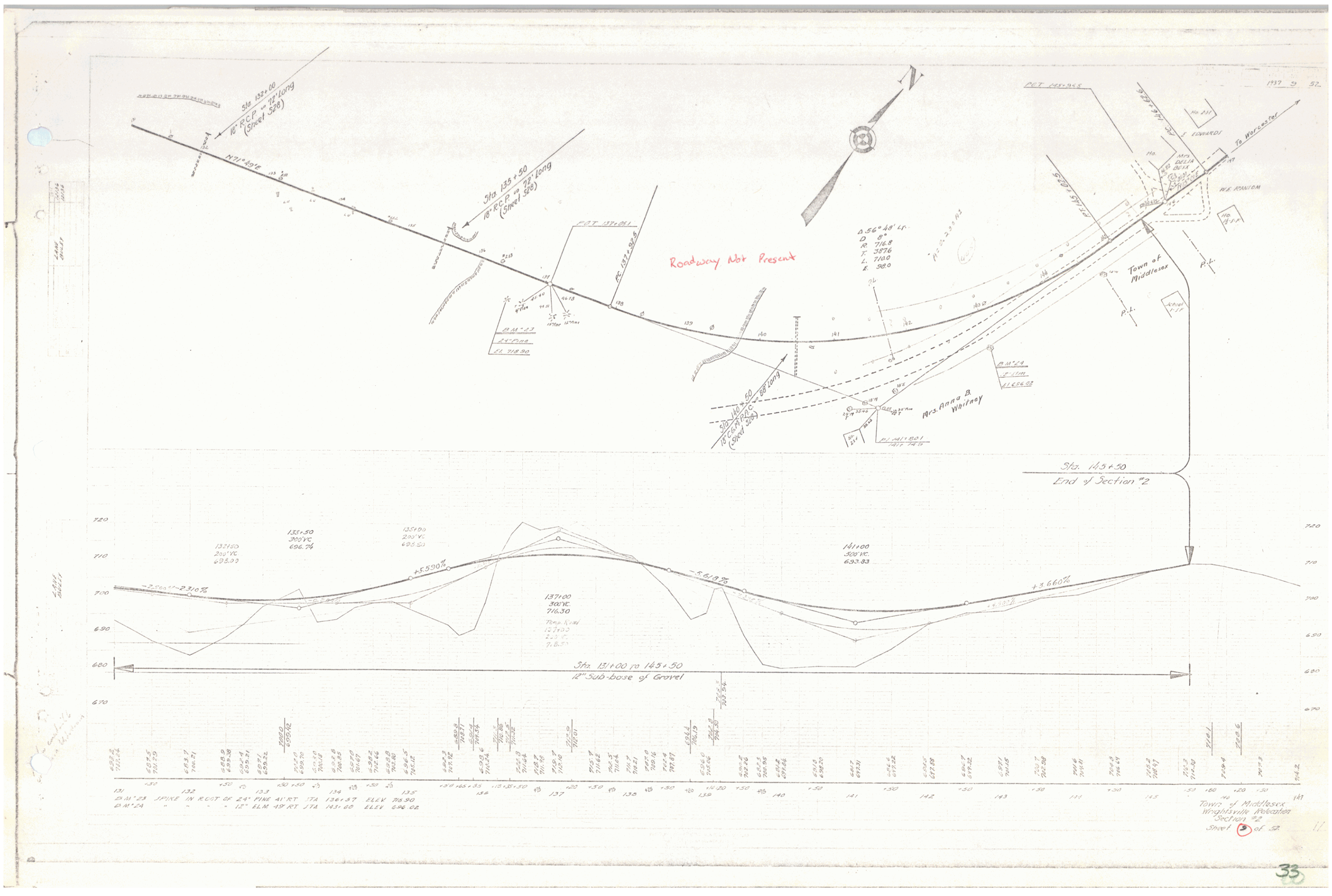

E Meadow Rd
Pl 3°30
Δ 13°-03' Rt
Pl 17°00
Δ 16°-32' Rt
Woods
Brush
Cellar Hole
Old Fdn
Cultivated Land
Pl 0°00
Δ 03°-41' Lt
Por 67+00
Main Line
Pl 11°30
Δ 11°-24' Lt
Shady Rill Brook
E Meadow Rd
Grade 2.5%
670
660
6636 6620 6607 6600 6607 6617 6623 6632 6629 6629 6626 6620 6625 6631 6634 6642 6655 6676 6647 6647 6655 6669 6692 6701 6710 6716 6722 6718 6726
0 150 1 150 2 150 3 150 4 150 5 150 6 150 7 150 8 150 9 150 10 150 11 150 12 150 13 150 14
TOWN OF MIDDLESEX
Shady Rill Road Traverse
7C

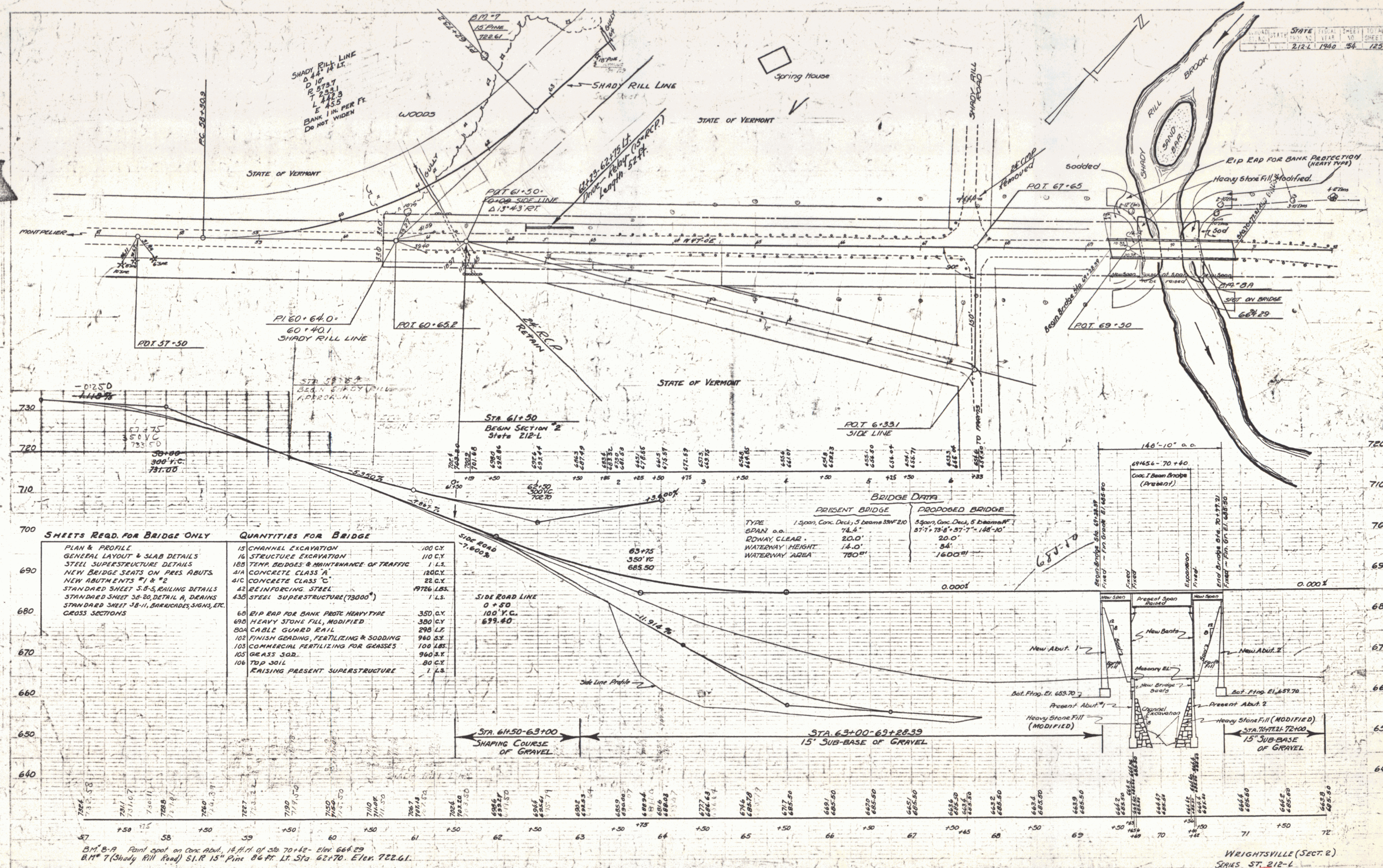
31


BM #20
15" Pine
El. 731.33
Pasture
Sta 118+75
24°6' (N) RPC on 70' Long (Asbest)
(Street 528)
Chas. Holmes
Sta 123+80
30°6' (N) RPC on 60' Long
(Street 528)
BM #21
Spot on ledge
El 720.19
P.C. 126+21.8
P.I.
S 75° 44' E
Chas. Holmes
Chas. Holmes
Barn
Barn
House
Roadway Not Present
Δ 32° 27' Lt.
D 8°
R 716.8
T 209.6
L 405.6
E 23.6
1937 8 52
BM #22
Spot on Bldg.
El 705.11
Sta 127+20
18" RCP on 40' Long
21.4 Top (Sm. 528)
POST 126-830
PI 128+29.4
120+13.8
Temp. Road
118+00
200' VC.
714.00
Temp. Road
121+50
150' VC.
714.00
Temp. Road
123+03
150' VC.
703.00
Temp. Road
128+75
200' VC.
712.50
Temp. Road
137+50
200' VC.
710.50
130+30
300 VC.
703.67
-7.275%
-6.603%
-0.571%
+4.838%
-0.667%
-0.727%
-2.503%
Sta 115+00 TO 131+00
12" Sub-base of Gravel
BM #20 SPIKE IN ROOT OF 15" PINE 170' LT. STA. 116+66 ELEV 731.33
BM #21 SPOT ON LEDGE 70' LT STA 124+56 ELEV 720.19
BM #22 " " " 41' LT. STA 130+11 ELEV. 703.11
Town of Middlesex
Wrightsville Relocation
Section
Sheet 10 of 52

10

32


Sta 132+00
18" R.C.P. @ 22' Long
(Sheet 528)
N71°40'E
Sta. 135+50
18" R.C.P. @ 22' Long
(Sheet 528)
PCT 137+01
PC 137+05
Roadway Not Present
Δ 56° 48' Lt.
D 8°
R 716.8
T 387.6
L 710.0
E 98.0
PCT 145+94.5
1937 9 52
Ho. A11
I. EDWARDI
Ho.
MRS. DELIA DEXX
To Worcester
W.E. RANDOM
Ho. 18 F.F.
Town of Middlesex
P.L.
BM #23
SPIKE
EL. 718.90
BM #24
EL 696.02
Sta. 140+50
15" C.M.P.C.
@ 88' Long
(Sheet 528)
Mrs. Anna B. Whitney
Sta. 145+50
End of Section #2
133+50
300' VC.
696.74
133+50
200' VC.
695.93
135+00
200' VC.
696.50
137+00
300' VC.
716.30
141+00
300' VC.
693.83
-2.56% -2.30%
+5.590%
-5.619%
+3.660%
+1.10%
720
710
700
690
680
670
Sta. 131+00 to 145+50
12" Sub-base of Gravel
131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147
BM #23 SPIKE IN ROOT OF 24" PINE 41' RT. STA 136+37 ELEV 716.90
BM #24 " " " " 12" ELM 49' RT. STA 143+00 ELEV 696.02
Town of Middlesex
Wrightsville Relocation
Section #2
Sheet 3 of 52.
33



BRIDGE DATA

	PRESENT BRIDGE	PROPOSED BRIDGE
TYPE	1 Span, Conc. Deck, 5 beams 33WF 210	3 Span, Conc. Deck, 5 beams WF
SPAN o.o.	74.4'	37'-7" + 73'-8" + 37'-7" = 148'-10"
RDWAY. CLEAR.	20.0'	20.0'
WATERWAY HEIGHT	14.0'	34'
WATERWAY AREA	750 □'	1600 □'

SHEETS REQD. FOR BRIDGE ONLY

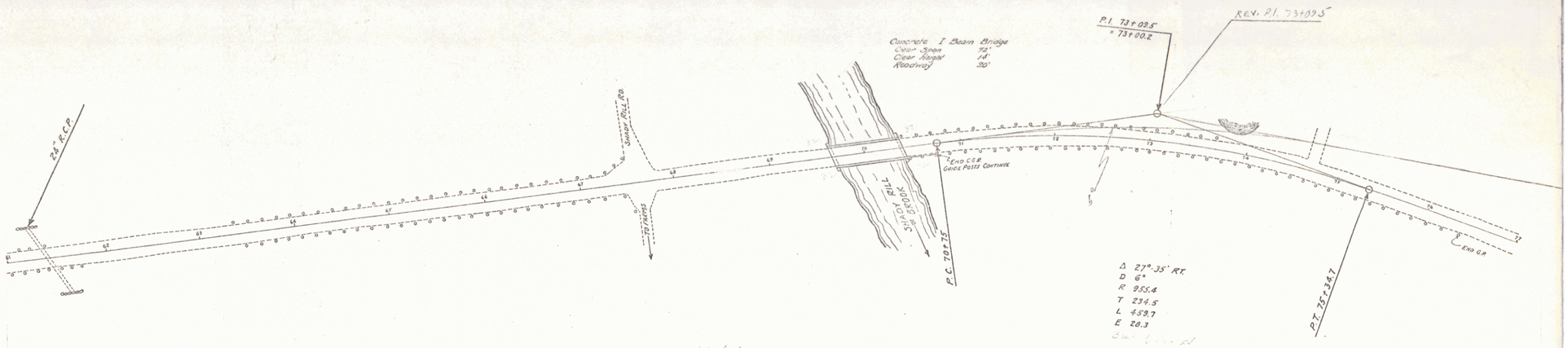
- PLAN & PROFILE
- GENERAL LAYOUT & SLAB DETAILS
- STEEL SUPERSTRUCTURE DETAILS
- NEW BRIDGE SEATS ON PRES. ABUTS.
- NEW ABUTMENTS #1 & #2
- STANDARD SHEET S.B-5, RAILING DETAILS
- STANDARD SHEET SB-20, DETAIL A, DRAINS
- STANDARD SHEET SB-11, BARRICADES, SIGNS, ETC.
- CROSS SECTIONS

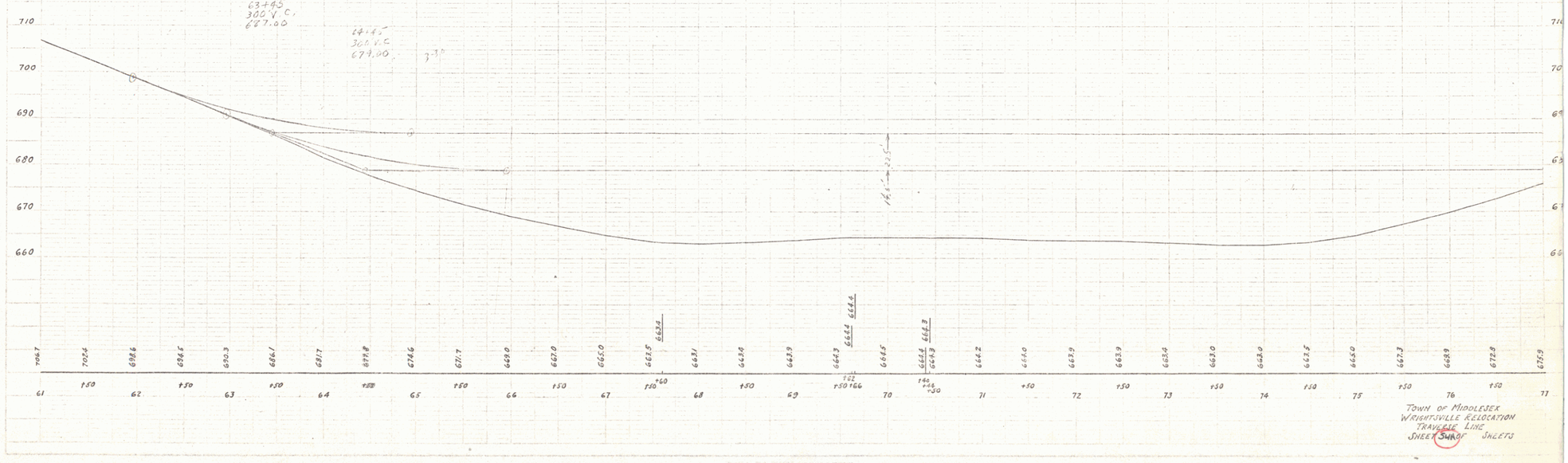
QUANTITIES FOR BRIDGE

Item	Description	Quantity
15	CHANNEL EXCAVATION	100 C.Y.
16	STRUCTURE EXCAVATION	110 C.Y.
18B	TEMP. BRIDGES & MAINTENANCE OF TRAFFIC	1 L.S.
41A	CONCRETE CLASS "A"	120 C.Y.
41C	CONCRETE CLASS "C"	22 C.Y.
42	REINFORCING STEEL	19726 LBS.
43B	STEEL SUPERSTRUCTURE (73000#)	1 L.S.
68	RIP RAP FOR BANK PROTC. HEAVY TYPE	350 C.Y.
69B	HEAVY STONE FILL, MODIFIED	380 C.Y.
80A	CABLE GUARD RAIL	298 L.F.
102	FINISH GRADING, FERTILIZING & SODDING	960 S.Y.
103	COMMERCIAL FERTILIZING FOR GRASSES	100 LBS.
105	GRASS SOD	960 S.Y.
106	TOP SOIL	80 C.Y.
	RAISING PRESENT SUPERSTRUCTURE	1 L.S.

WRIGHTSVILLE (SECT. 2)
SERIES ST. 212-L
SHEET 54 OF 125 SHEETS

34





TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
TRAVERSE LINE
SHEET 5 OF SHEETS

35

STATE
212L 1940 55 125

STATE OF VERMONT

B.M. "9A
14" PINE
688.32

Remove Item 109

Remove Item 109

Lodge

Lodge L.U.

P.I. 78+00.0
77+82.0

Iron Pipe

℄

Δ 27°26' Rt.
D 3°
R 1910.1
T 466.2
L 914.4
E 56.1

STATE OF VERMONT

CHARLES HOLMES

Sta. 79+50 Lt.
Construct Drive 80'00 Lt.

141.60
Rock-filled stone drain constructed

Sta. 82+15 Lt.
Construct drive

B.M. "10A
12" PINE
708.98

CHARLES HOLMES

P.O.T. 82+15.0

A 1.237
#379.75

CHARLES HOLMES

A 1.237

P.O.T. 82+80.3

STATE OF VERMONT

P.T. 82+46.2

83.75
10" C.B.M.P.A.C. 20 Ft. long (Raised 72°-15' RT.)
(Skew 5°-20)

Bound 48.0

Bound 48.0

Bound 79.0

Old B.M.
12" Pine

PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED BOOK	PAGE	DATE
A	W.D.	4-11-40	CAPITAL SAVINGS BANK AND TRUST CO.	ST. OF VT.	21	638/639	4-22-40

76+00
400'VC
685.50

+2.778%

0.000%

Standard Underdrain Grades

80+50
400'VC
698.00

-1.977%

STA. 72+00 — 84+00
15" SUB-BASE OF GRAVEL

Revised grades as per recommendation of C.E. Putnam July 18, 1940

B.M. #9A S.I.R. 24" Pine 51 Ft. Lt. Sta. 76+24. Elev. 682.32
B.M. #10A S.I.R. 12" Pine 80 Ft. Lt. Sta. 82+30 Elev. 708.98

WRIGHTSVILLE (SECTION 2)
SERIES STATE No. 212 L
SHEET 55 OF 125 SHEETS

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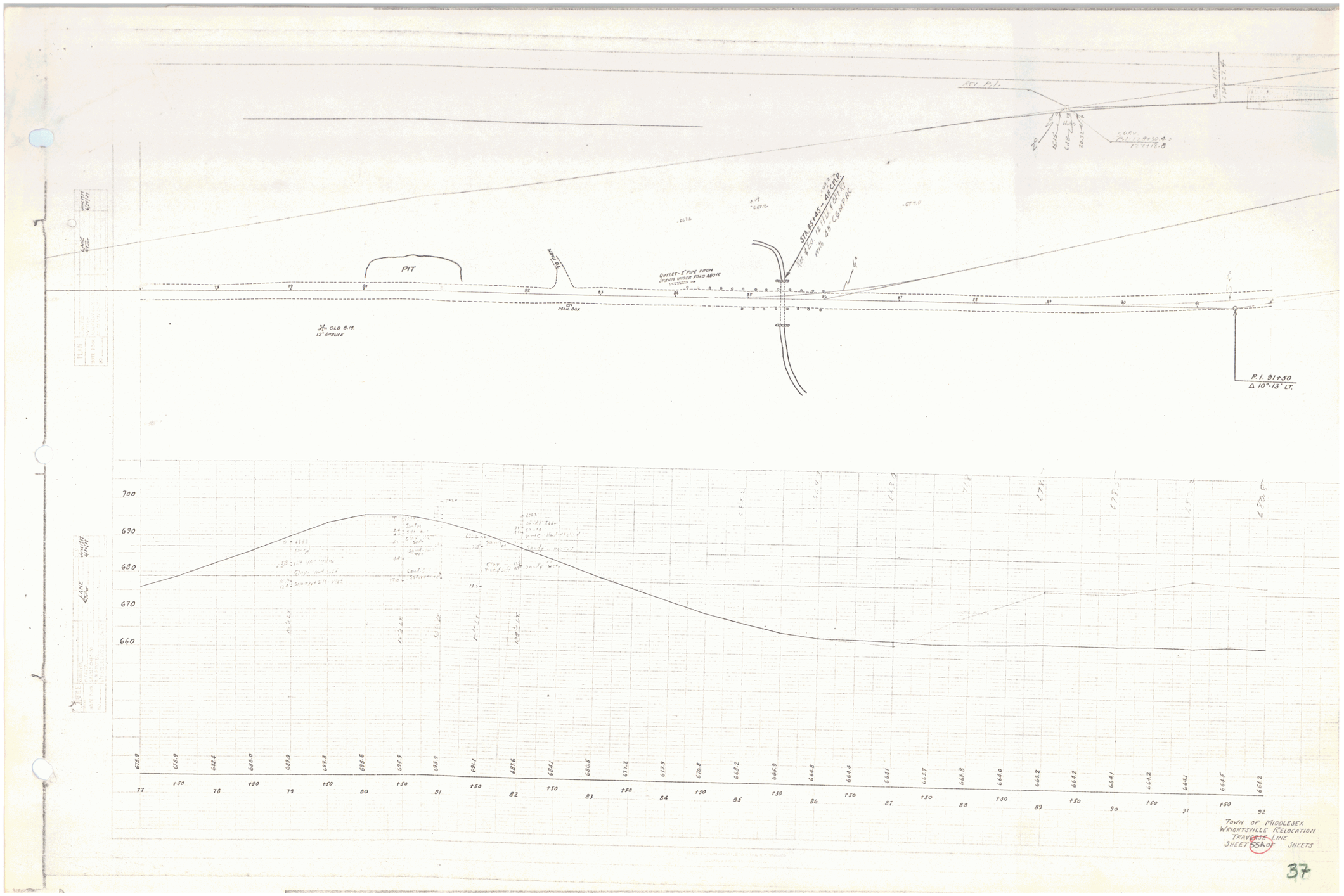


TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
TRANSMISSION LINE
SHEET 55A OF SHEETS

37

STATE
212-L 1940 56 125

CHARLES HOLMES

STATE OF VERMONT

8"+ Hill St. Drain Lt. 70+13 Lt.
3rd. Underdrain 6" PCP Perforated
Length 276.74 Ft.
553.48 Ft.

Street 3-20
Grade 3-20

90+35
18" RCP 12 Corrug. 40 Ft.
D.I. & Top Lt.

90+58 Lt. 92+15 Lt. 91.98 Ft.
3rd. Underdrain 6" PCP Perforated
Length 206.34 Ft. 413.68 Ft.

93+42
24" R.C.P. 75 Lf. of 2.0 Corrug. (Sheet 5-20)

STATE OF VERMONT

B.M. "11 A
10" Elm
682.13

OUTLET 8" PIPE FROM SPRING UNDER POND ABOVE

48" CMP

48" R.C.P.

Revised profile as per recommendation of C. E. Putnam July 18, 1940 used

Revised (Used)
94+50
300 Vc.
694.00

Ren (Used)
83+50
400 Vc.
692.62

-1.077%

+06.80%

-0674%

0.000%

9/100
300 Vc.
696.36

3rd Stld. Underdrain 6" PCOMPAC Grade

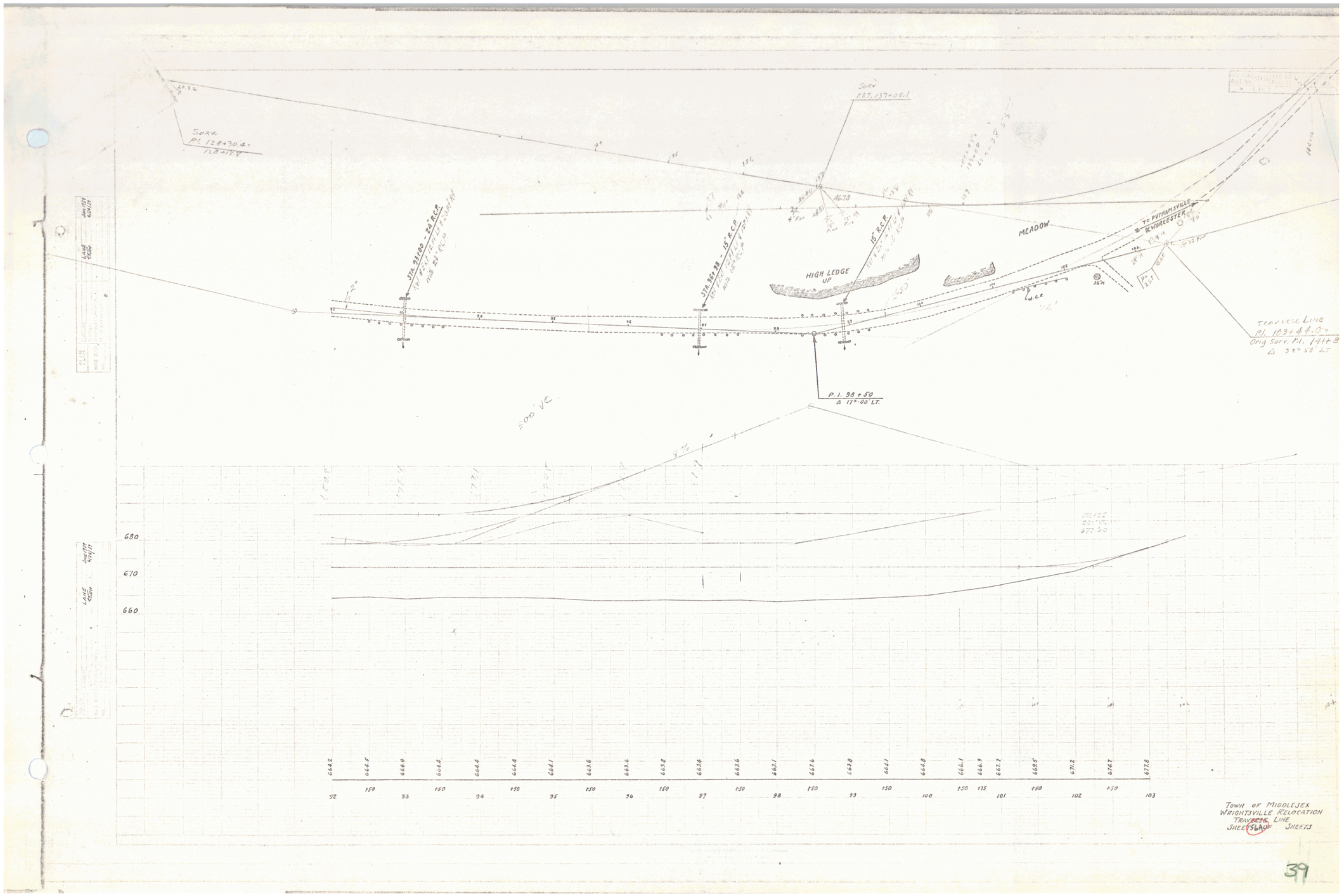
Revised grades as per recommendation of C.E. Putnam July 18, 1940

Sta. 84+0 - 96+0
15" SUB-BASE of GRAVEL

B.M. "11 A S.I.R. 10" Elm 42 Ft. Rt. Sta. 84+71. Elev 682.13

WRIGHTSVILLE (SECTION 2)
SERIES STATE No. 212 L
SHEET 56 OF 125 SHEETS

38


Surv.
P.I. 128+30.4-
128+15.8
Surv
P.O.T. 137+05.1
STA. 93+08 - 24" R.C.P.
STA. 95+98 - 15" R.C.P.
15" R.C.P.
HIGH LEDGE
UP
MEADOW
TO PUTNAMSVILLE
& WORCESTER
L.W.C.R.
TRAVERSE LINE
P.I. 103+44.0=
Orig Surv. P.I. 141+2
Δ 32°50' LT.
P.I. 98+50
Δ 17°00' LT.
300' V.C.
680
670
660
664.2
664.5
664.9
664.4
664.4
664.4
664.1
663.6
663.6
663.8
663.4
663.6
663.1
662.6
662.8
664.1
664.8
666.1
666.9
667.1
668.5
671.2
674.7
677.8
92
93
94
95
96
97
98
99
100
101
102
103
+50
+15
TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
TRAVERSE LINE
SHEET 5 OF SHEETS

39

STATE 212-L 1940 37 125

STATE OF VERMONT

B.M. #23 30" PINE 718.90

Remove Item 109

LEDGES

Remove Item 109

96+75 18" R.C.P. 76' Long (See Sheet S-28)

POST 97+96.7

POST 98+68.3

15" R.C.P. Removed and Contractor to Salvage

15" R.C.P.

Rev. P.I. 99+22.5' 99+16.1

C. Rod R.O.W.

Survey POST 101+36.3 Δ 31°39' LT.

Survey P.I. 102+56.4 101+39.7 Δ 6°58.4' LT. Δ 6°

Rev. Curve Deg. 40' L. R. 146.4 175.4 245

Rev. P.C. 97+05.9

Rev. P.T. 101+33.7

MEADOW

STATE OF VERMONT

MRS. DELIA BOXX

Bound Sold A.075 - G

16" RCP 75' Long (See Sheet S-28)

60 101+33.7

P.C. 103+23.9

Δ 32°-25' LT. D 11° R 338.3 T 98.0 L 188.7

Rev. Curve Deg. 17°-12' LT. D 4° R 287.1 T 90.1 L 180.0 E 2.8

Bound Sold A.075 - G

MEADOW

N 48° E 64'

Bound 24"x12"

B.M. #24 12" ELM 696.02

Pl. 104+21.9 104+16.6

MRS. ANNA B. WHITNEY

Rev. P.T. 103+28.0

Rev. P.C. 103+39.0

Rev. P.T. 104+22

Ho. 211 E. EDWARDS

Ho. MRS. CELIA BOXX

W.E. RANSOM

No. 145

TOWN OF MIDDLESEX

School No. 1

P.I. 145+52.3' 145+52.1

Revised profile as per recommendation of C.E. Putnam July 18, 1940 (used)

Revised grades as per recommendation of C.E. Putnam July 18, 1940 (used)

-1.267%

98+00 300'V.C. 400'K.C. 696.00

STA 96+0 - 104+50 15" SUBBASE OF GRAVEL

STA. 104+50 END SECTION #2 STATE 212-L

STA. 104+50 BEGIN SECT. C. ST. 212-L.

103+50 300'V.C. 687.14

+8.003%

-7.626%

145+50 400'V.C. 717.91

104+50 - 144+50 15" Sub-base of Gravel

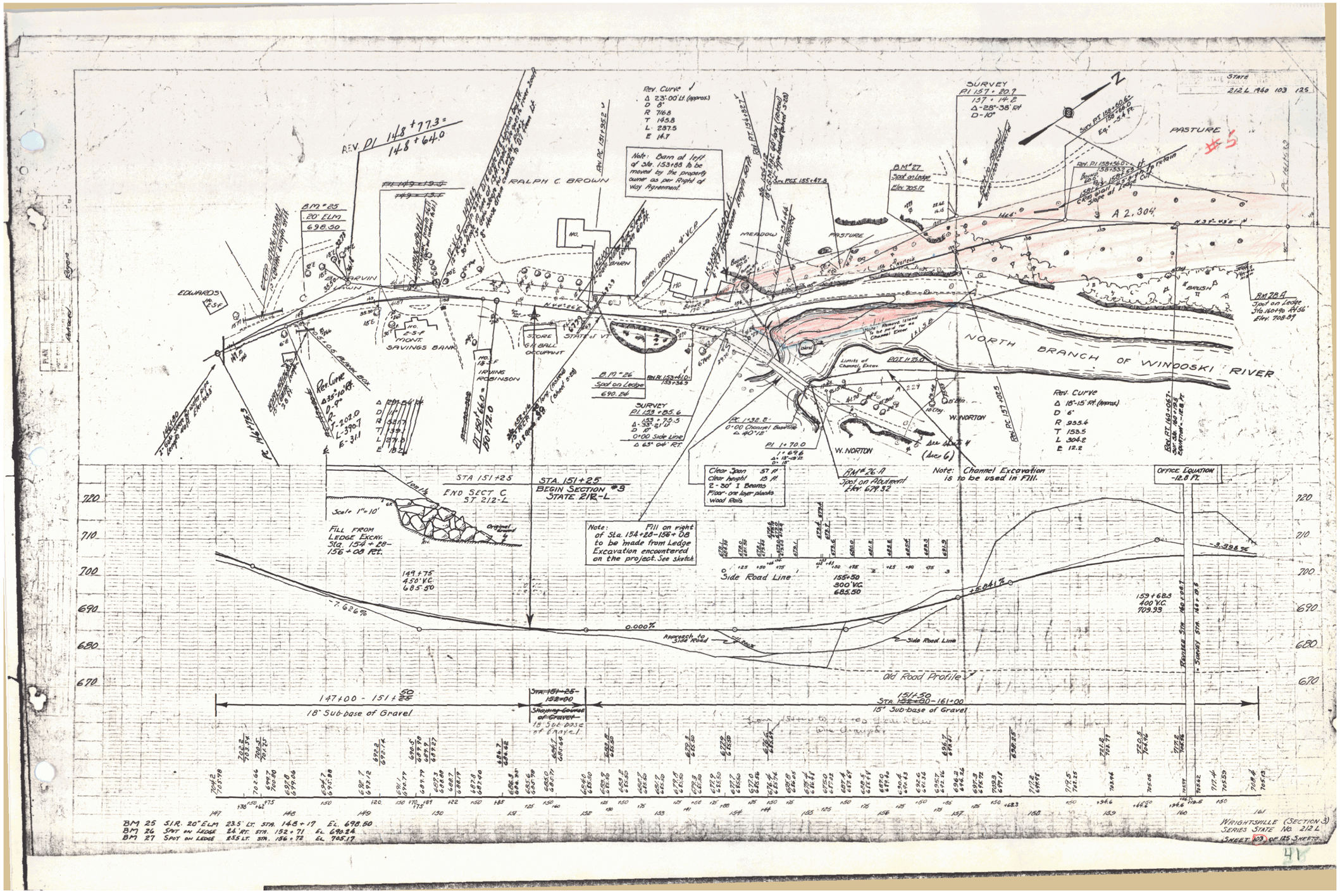
144+50 - 147+00 Sub-base of Gravel

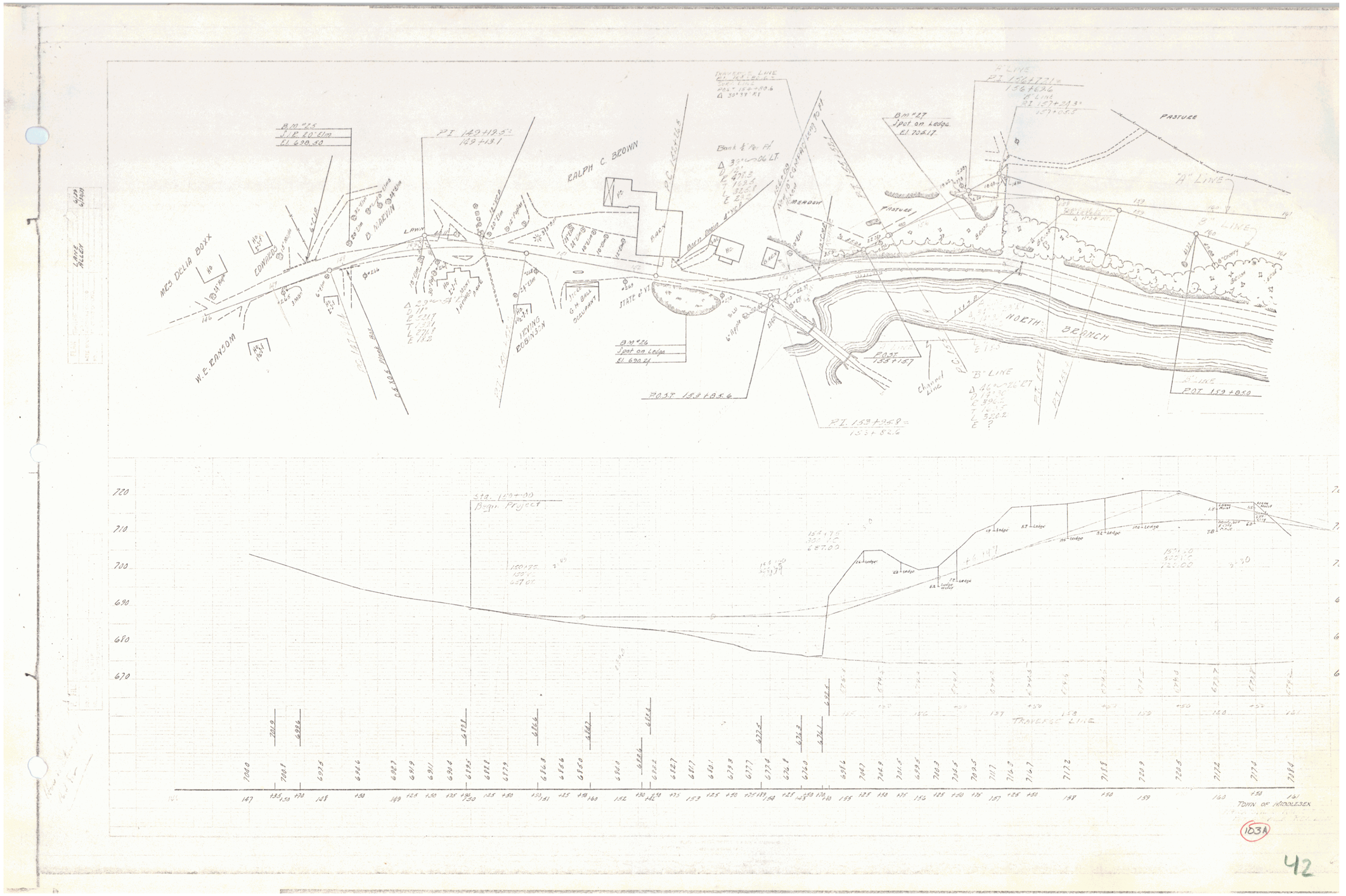
B.M. #23 S.I.R. 30" Pine 42 Ft. Lt. Sta. 98+15 Elev. 718.90

B.M. #24 S.I.R. 12" Elm 25 ft. Rt. Sta. 104+75 Elev. 696.02

WRIGHTSVILLE (SECTION 2) SERIES STATE NO. 212L SHEET 37 OF 125 SHEETS

40


A.E.V. PI 148+773.5 = 148+64.0
RALPH C. BROWN
EDWARDS
MARVIN
LAWN
BM #25
20" ELM
698.50
Rev. Curve
Δ 23°00' Lt (approx.)
D 8°
R 716.8
T 145.8
L 287.5
E 14.7
Note: Barn at left of Sta. 153+88 to be moved by the property owner as per Right of Way Agreement.
Rev. PC 151+39.2
Rev. PT 154+26.7
MEADOW
PASTURE
BRUSH
SURVEY
PI 157+20.7
157+14.2
Δ-28°-38' Rt
D-10°
BM #27
Spot on Ledge
Elev. 705.17
Rev. PI 158+60.6
Bears S 20°-15' E
158+54.6
Rev. PI 158+60.6
Bears S 20°-15' E
158+53.6
Rev. PC 155+47.8
A 2,304
N 32°-45' W
BM 28-A
Spot on Ledge
Sta. 160+90 44' Lt
Elev. 708.89
NORTH BRANCH OF WINDOOSKI RIVER
Limits of Channel Excav.
EOE 11+25.0
Rev. Curve
Δ 18°-15' Rt. (approx.)
D 6°
R 955.4
T 153.5
L 304.2
E 12.2
Rev. PC 157+72.5
EOE PT 160+08.7
Bears S 20°-15' E
160+08.7
Control = 12.8 Ft.
W. NORTON
Δ 40°12'
PI 1+70.0
1" = 50 ft.
Δ 18°-15'
D 15°
Clear Span 57 Ft.
Clear height 15 Ft.
2 - 30" I Beams
Floor - one layer planks
Wood Rails
BM #26-A
Spot on Abutment
Elev. 679.52
Note: Channel Excavation is to be used in Fill.
OFFICE EQUATION
-12.8 Ft.
STA 151+25
END SECT C
ST. 212-L
STA. 151+25
BEGIN SECTION #3
STATE 212-L
Scale 1"=10'
FILL FROM LEDGE EXCAV. Sta. 154+28 - 156+08 Rt.
Note: Fill on right of Sta. 154+28 - 156+08 to be made from Ledge Excavation encountered on the project. See sketch.
149+75
4.50% V.C.
685.50
-7.626%
0.000%
+5.041%
-3.398%
Approach to Side Road
Side Road Line
Old Road Profile
Side Road Line
155+50
300' V.C.
683.30
159+68.3
400' V.C.
709.99
147+00 - 151+50
18" Sub-base of Gravel
STA 151+25 - 152+00
Shoulder Course of Gravel
18" Sub-base of Gravel
151+50
STA 152+00 - 161+00
15" Sub-base of Gravel
Fence to be removed and new one erected by Contractor
Fence Sta. 160+08.8
Survey Sta. 160+08.8
BM 25 S.I.R. 20" Elm 23.5' Lt. Sta. 148+17 El. 698.50
BM 26 Spot on Ledge 24' Rt. Sta. 152+71 El. 690.24
BM 27 Spot on Ledge 63.5 Lt. Sta. 156+72 El. 705.17
WRIGHTSVILLE (SECTION 3)
SERIES STATE NO. 212 L
SHEET 103 OF 125 SHEETS
41


B.M. "25
I.P. 20' Elm
El. 630.30
P.I. 149+19.5=
149+13.1
RALPH C. BROWN
Bank ± Per Ft
B.M. "27
Spot on Ledge
El. 705.17
PASTURE
"A" LINE
"B" LINE
MEADOW
LAWN
BARN
Open Drain
MRS DELIA BOXX
EDWARDS
D. MARVIN
W.E. RANSOM
LEVING ROBINSON
G.H. BELL
STATE ST.
B.M. "26
Spot on Ledge
El. 690.41
POST 153+85.6
POST 155+15.7
POST 159+85.0
NORTH BRANCH
Channel Line
P.I. 153+95.9=
153+82.6
TRAVERSE LINE
Sta. 147+00
Begin Project
TRAVERSE LINE
TOWN OF MIDDLESEX
103A
42

State
212 L 1940 104 125

PC 161+43.9
BOUND 40.0'
B.M. #28
Spot on Ledge
Elev. 710.22
DELTA 39°05' Lt
D 8°
T 76.8
L 254.4
R 493.5
E 23.8
MEADOW
BOUND 45.0'
P.O.T. 162+00.0
PT 162+43.7
168+42 - 168+78 Lt
Relay Pipe (15"RCP) length 36ft.
10" C.M.P.
PT 164+10.8
163+98.0
BOUND
12" C.M.P.
B.M. #29
3 I.E. 12" Elm
Elev. 676.65
Sta. 165+00 18" RCP
Relay Pipe (Skew 45° Lt)
(See Sheet 5-28)
P.C. 165+42.4
Sta. 166+00 18" RCP
Relay Pipe (15°-RCP) length 16ft.
E.C. Beavin
S. Coast Drive
B.M. #30
Spot on Ledge
Elev. 676.29
16'+ 2'± 2-2 Conc. Box (Skew 82° Lt)
16' Concrete Gate Lane (See Sheet 5-29)
Inlet & end Outlet Ditches 20ft.
DEAN HALL
Sta. 170+50-174+50 Lt
Construct Ditch. To be paid for as Common Excav. Incl. Borrow Item 10-11
BOUND 40.0'
A.350
DEAN HALL
BOUND 40.0'
P.C. 172+01.4
P.T. 174+11.9
174+02.8
B.M. #31
Spot on Ledge
Elev. 681.55
Pasture
174+50 Lt.
Construct drive to field
BOUND 45.0'
174+90
18" RCP 60 ft. long (Skew 3°30)
Stone ditch, Relay length 23ft.
paved with riprap
DELTA 28°57' Rt
D 8°
T 81.9
L 214
R 413.6
E 20.8
174+935 - 18" C.M.P. Removed
P.T. 176+140
BOUND 40.0'
N
Z

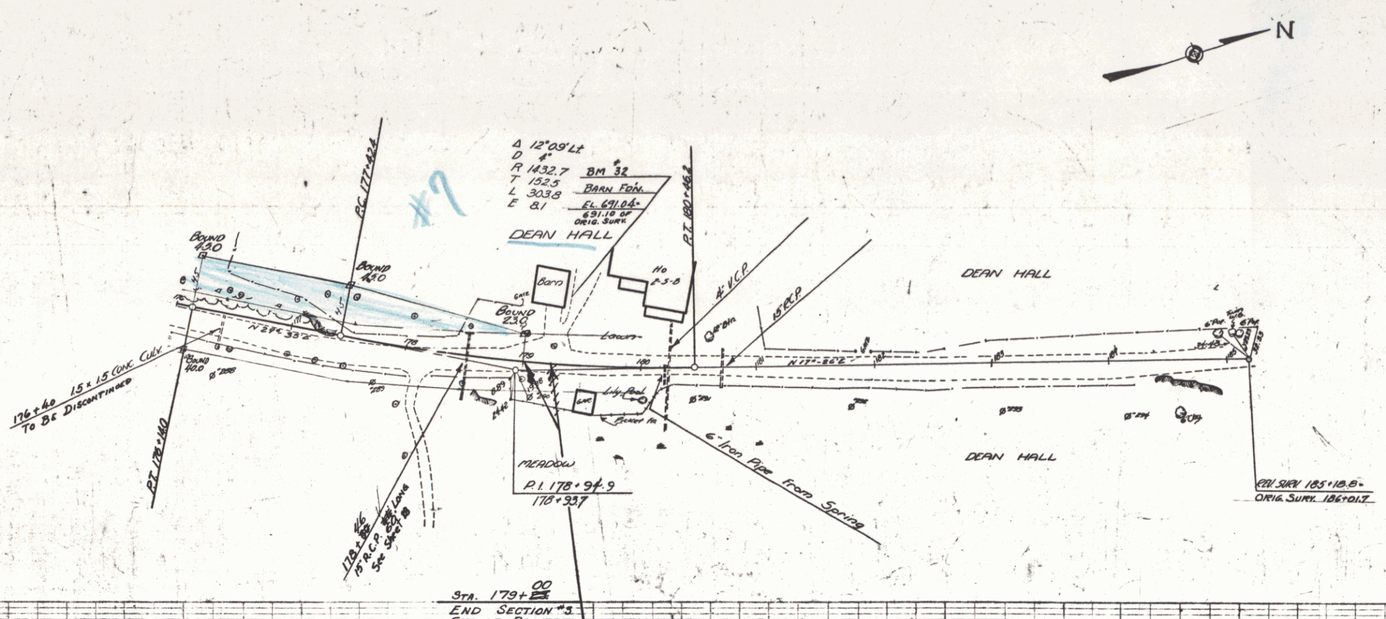
167+00
300' VC
685.50
-3.358%
0.000%
STA. 161+0 - 176+0
15" SUB-BASE OF GRAVEL

BM 28 SPOT ON LEDGE 29' LT STA 162+58 EL. 710.22
BM 29 S.I.T. 12" ELM 260' RT. STA. 164+05 EL. 676.55
BM 30 SPOT ON LEDGE 16' LT. STA. 167+98 EL. 676.29
BM 31 SPOT ON LEDGE 68' LT. STA. 174+10 EL. 681.55

WRIGHTSVILLE (SECTION 3)
SERIES STATE NO. 212 L
SHEET 104 OF 125 SHEETS.

43

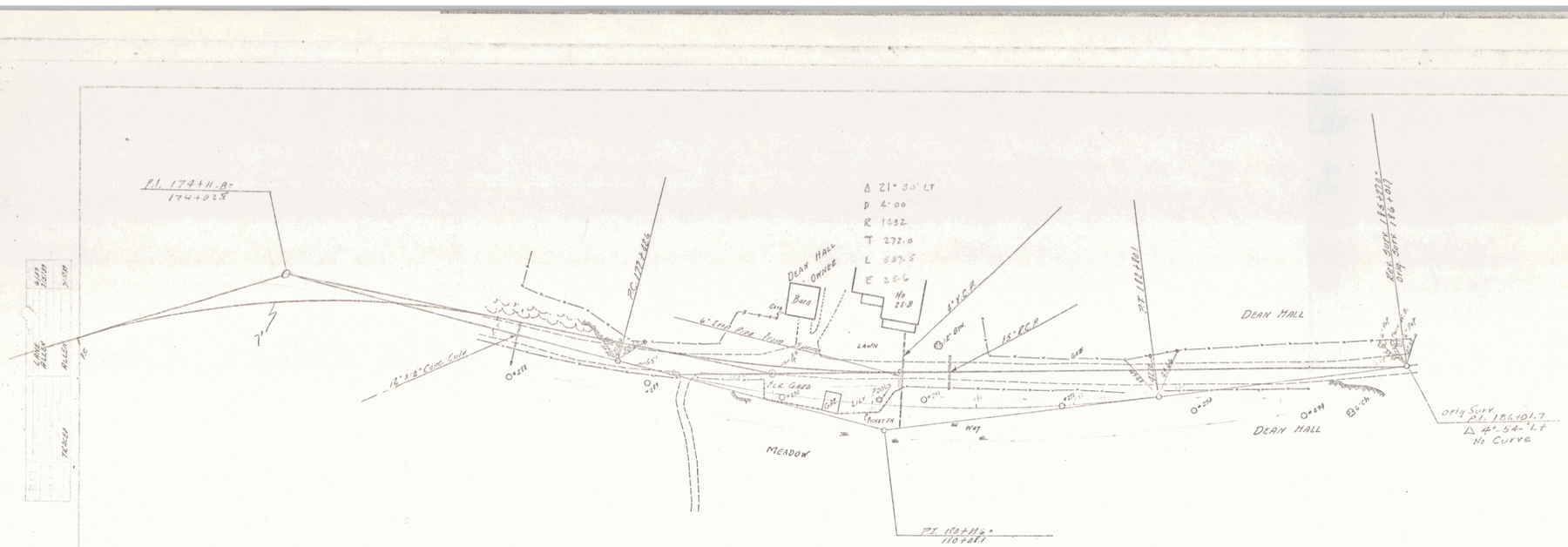
STATE
DIST. NO. | STATE | FED. AID PROJ. NO.
3 | 212-L | 1940 | 105 | 125

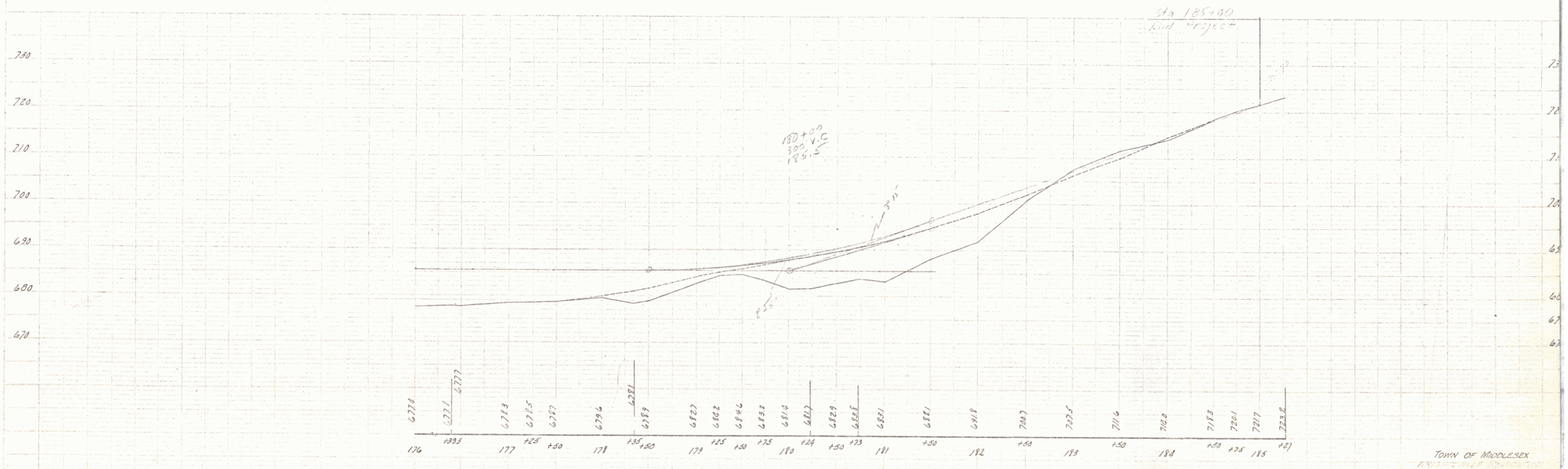


BM 32 Spot on Barn Foundation 49' Lt. Sta. 179+28 El. 691.06 = 691.10 of Orig. Surv.

WRIGHTSVILLE (SECTION 3)
SERIES STATE NO. 212-L
SHEET 105 OF 125 SHEETS

44





TOWN OF MIDDLESEX

105A

45

1937 # 26

Roadway Not Realigned

STA. 147+50
BEGINNING OF SECTION #3

Sta. 147+50 to 153+00
12" Sub-base of Gravel

Sta. 153+00 to 163+00
12" Sub-base of Gravel

+6.000%

-6.000%

Old Road Profile

Old Road Profile

North Branch

Barn

Garage

House

STORE & POST OFFICE

CHAS. KEMP

IRVING ROBINSON

R.C. BROWN

Meadow

Pasture

Ledge

Wooden Culm

BM #25 SPIKE IN ROOT OF 24" POPLAR 89' RT. STA. 148+87 ELEV. 693.50
BM #26 SPOT ON LEDGE 68' LT. STA. 153+65 ELEV. 749.21
BM #27 SPOT ON LEDGE 57' LT. STA. 139+50 ELEV. 737.43

TOWN OF MIDDLESEX WRIGHTSVILLE RELOCATION
SECTION #3 SHEET 7 OF 26 SHEETS

46

FED. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
DIST. NO.		FAS NO.		
5	VT		1937	5 26

Roadway Not Realigned

Drive Approach To Be constructed

Sta. 163+00 to 179+00

12" Sub-base of Gravel

-6.000%

+0.557%

-2.862%

B.M.* 28 SPIKE IN ROOT OF 8" SPRUCE 240' LT. STA. 163+50 ELEV. 734.34
B.M.* 29 " " 8" MAPLE 66' RT. STA. 166+03 ELEV. 696.38
B.M.* 30 SPOT ON 8" BOULDER 53' LT. STA. 171+32 ELEV. 709.21
B.M.* 31 " " LEDGE 47' RT. STA. 173+38 ELEV. 691.63

Town of Middlesex
Wrightsville Relocation
Section #3
Sheet 5 of 26

47-

PENNSYLVANIA STATE HIGHWAY DEPARTMENT — FISCAL YEAR 1937 — SHEET NO. 26

REV. CURVE
Δ 41°-42' LT.
D 3°30'
R 1642.14
T 376.8
L 733.2
E 73.0

Note — Sight Distance May Be Increased By Lowering Grade at Sta. 186 ±

N 11°-21E

P.I. 191+31.5
Δ 18-21 RT

P.I. 192+81.0
18-36 RT

Barn 34
El. 401.10

Barn 34

House 2.5 Brick

181+85 (4.48 Stone Box)
24" R.C.P. 28' Long
Invert Dikn Lt. (Sheet S-28)

Rev. P.T. 183+34.7

Rev. 186+193
Surv. 186+017
Eq. +126

Meadow

A. CHOUINARD

Meadow

Meadow

A. CHOUINARD

A. CHOUINARD

To Wrightsville

18" C.G.M. RAC. 179+30 39' Long (Sheet S-28)

Rev. P.I. 179+73.3
= 179+37.9

Surv. P.I. 178+71.6
= 178+45.0
Δ 36°-48 LT.
D 5°

Drive Approach To Be Constructed

Roadway Not Realigned

DEAN HALL

Rev. P.O.T. 186+193

Surv. P.I. 186+017
Δ 4°-34 LT.

STA. 186+00
END OF SECTION #3

Equat: +176

STA. 179+00 to 186+00
12" Sub-base of Gravel

181+50
200' V.C.
670.91

+7.048%

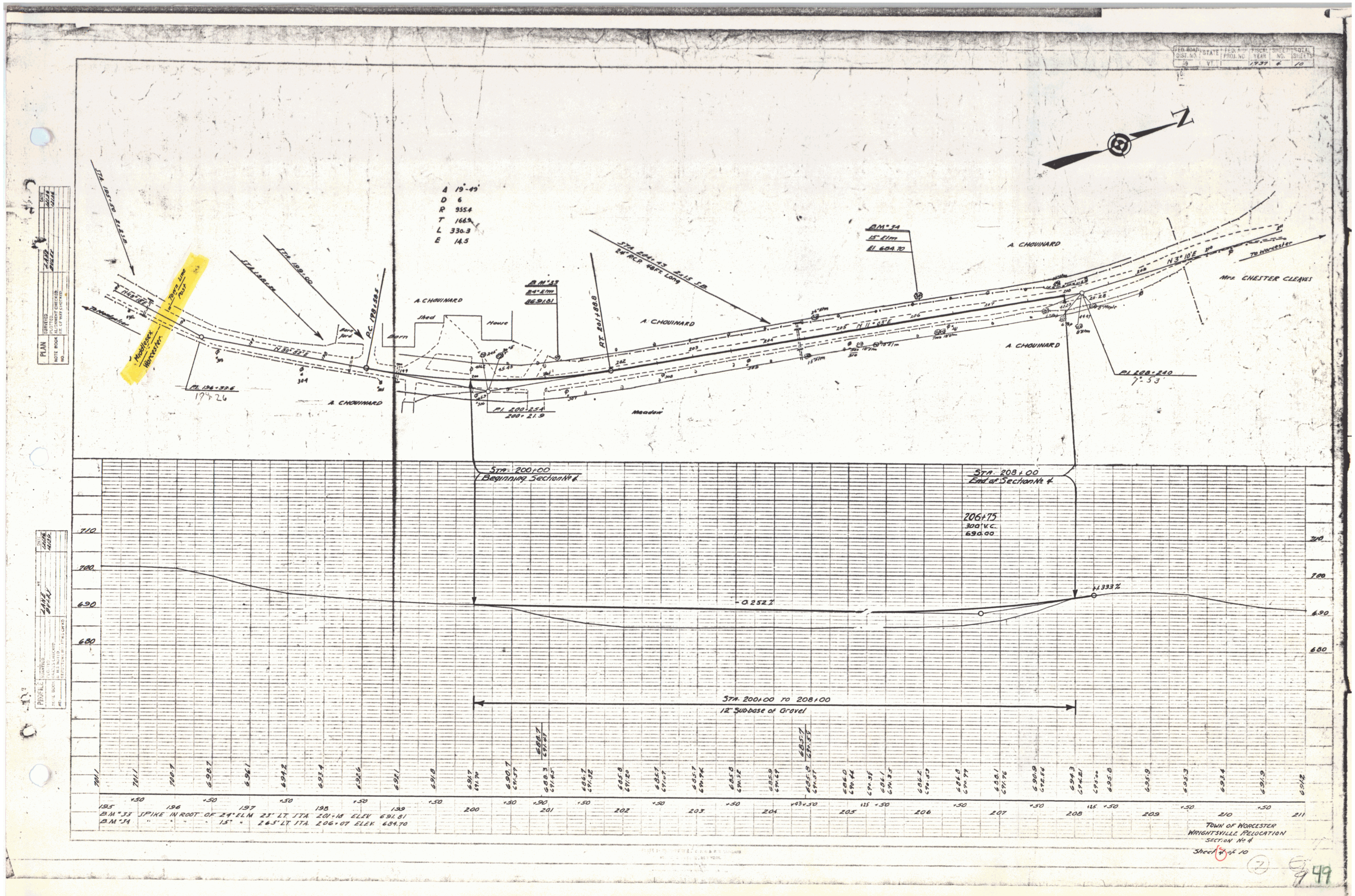
+0.187%

profile of old road

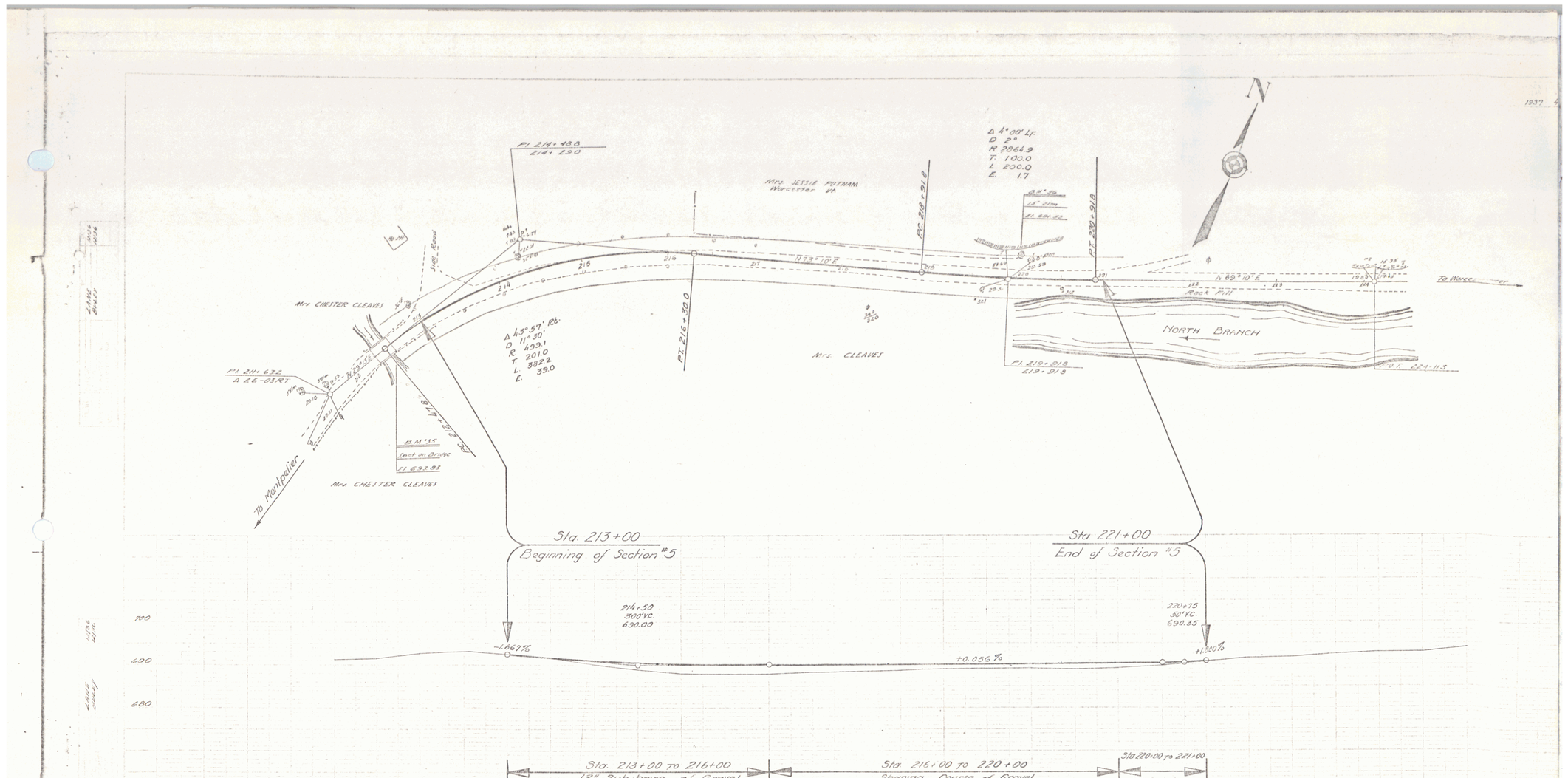
BM #32 SPOT ON BARN FOUNDATION 58' LT. STA. 180+12 ELEV 691.10

TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
SECTION #3
Sheet 26 of 26

48


FED. ROAD DIST. NO. 9 | STATE VT. | FED. AID PROJ. NO. | FISCAL YEAR 1937 | SHEET NO. 4 | TOTAL SHEETS 10
PLAN
SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED
NOTE BOOK NO.
ZANE
BULEY
Δ 19°-49'
D 6
R 955.4
T 166.9
L 330.3
E 14.5
STA. 195+50 2x2 S.B.
STA. 198+36
STA. 199+00
P.C. 198+58.5
N 48° 18' E
Town Line Post
Middlesex
Worcester
To Montpelier
N 30° 52' E
P.I. 196+33.6
A. CHOUINARD
Barn yard
Barn
Shed
House
BM #33
24" Elm
El 691.81
P.T. 201+88.8
STA 204+43 2x15 S.B.
24" R.C.P. 48 Ft. Long
P.I. 200+25.4
200+21.9
Meadow
N 11° 03' E
BM #34
15" Elm
El 684.70
N 3° 10' E
To Worcester
Mrs. CHESTER CLEAVES
P.I. 208+24.0
7°-53'
PROFILE
SURVEYED / PLOTTED / GRADES CHECKED / B.M.S NOTED / STRUCTURE LOCATIONS CH'KD
DATE
STA. 200+00
Beginning Section No 4
STA. 208+00
End of Section No 4
206+75
300' V.C.
690.00
-0.252%
+1.333%
710
700
690
680
STA. 200+00 TO 208+00
12" Subbase of Gravel
B.M. #33 SPIKE IN ROOT OF 24" ELM 23' LT. STA. 201+18 ELEV. 691.81
B.M. #34 " " " " 15" " 26.5' LT. STA. 206+07 ELEV. 684.70
TOWN OF WORCESTER
WRIGHTSVILLE RELOCATION
SECTION No 4
Sheet 4 of 10
49

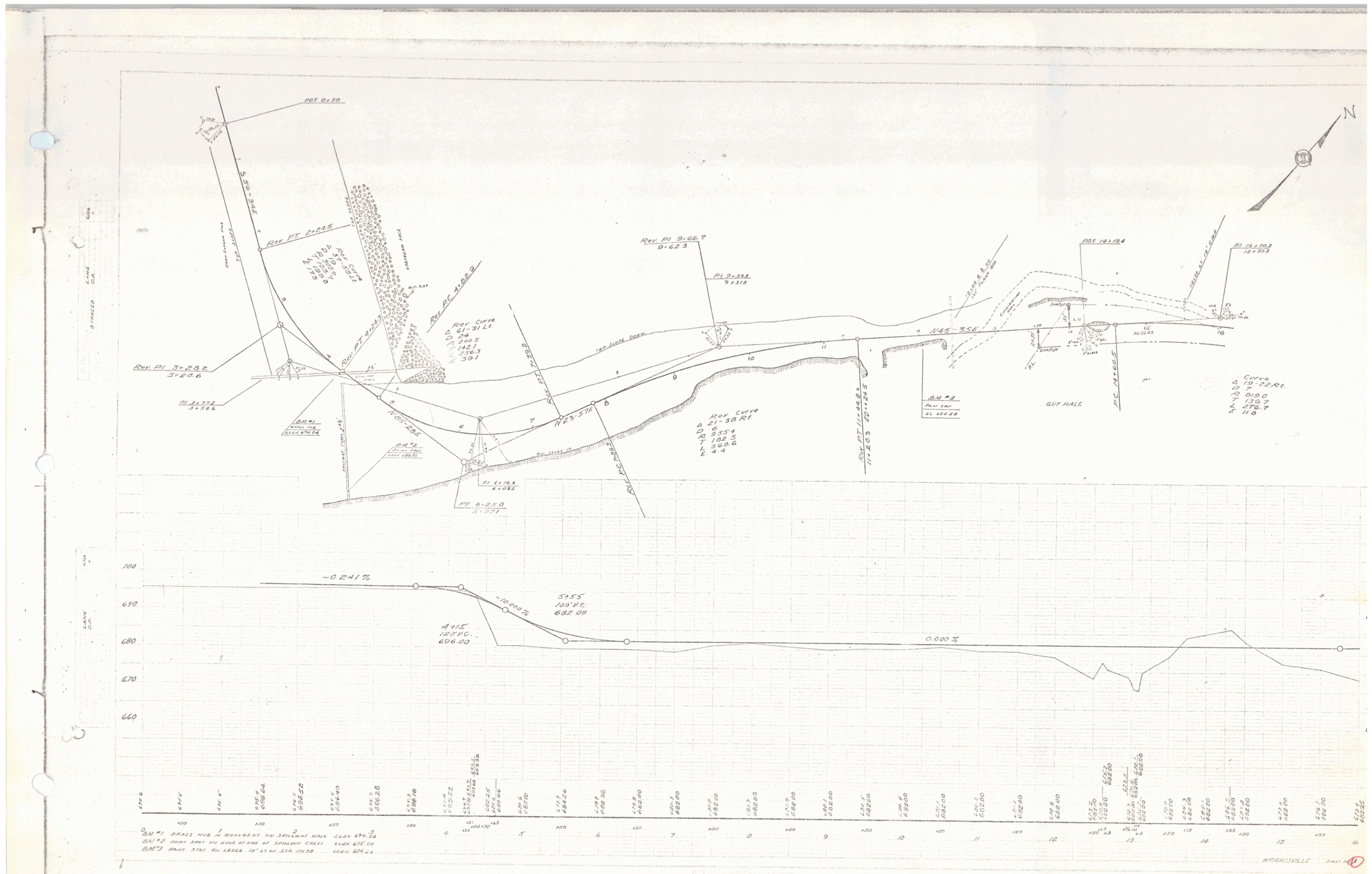
1937

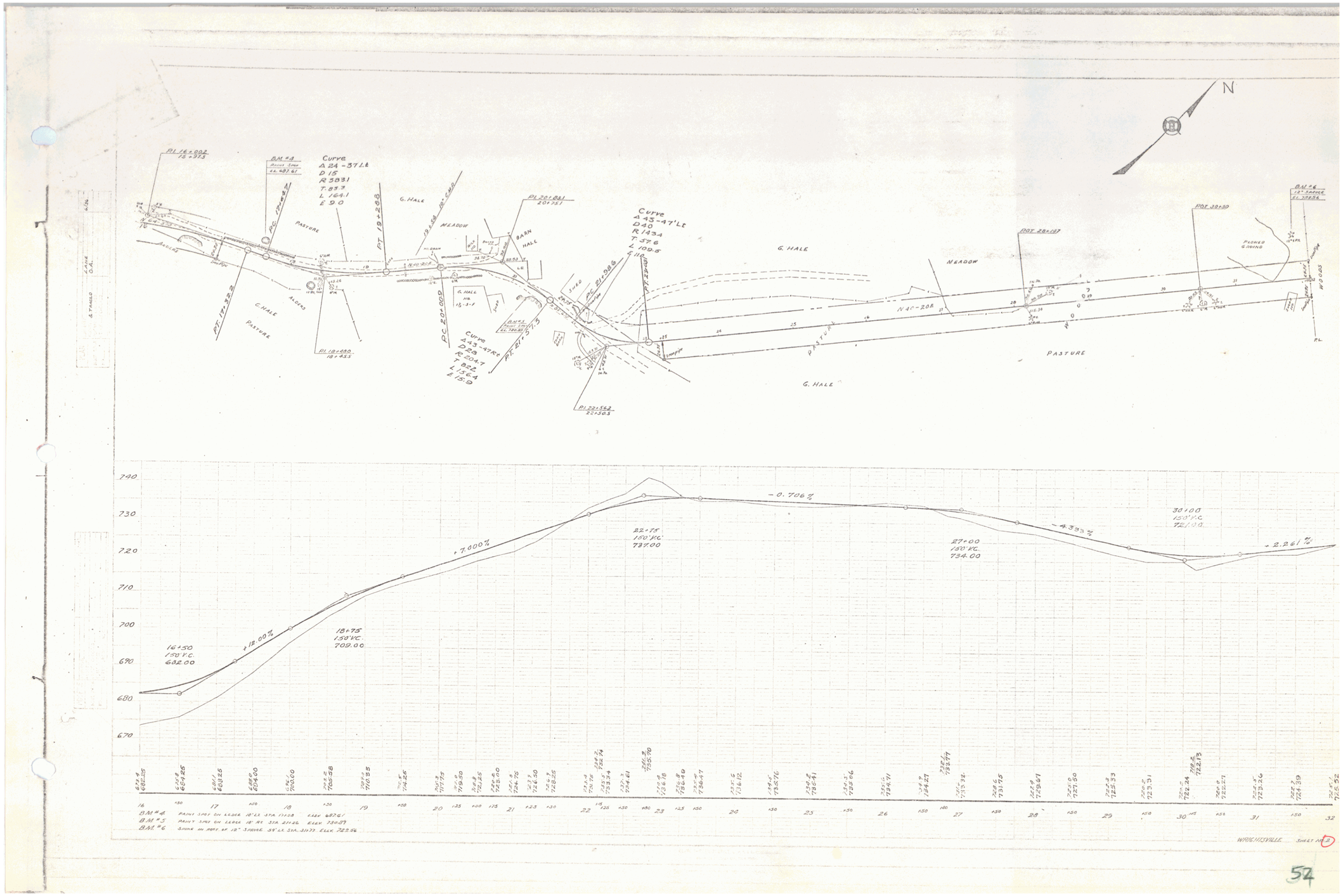


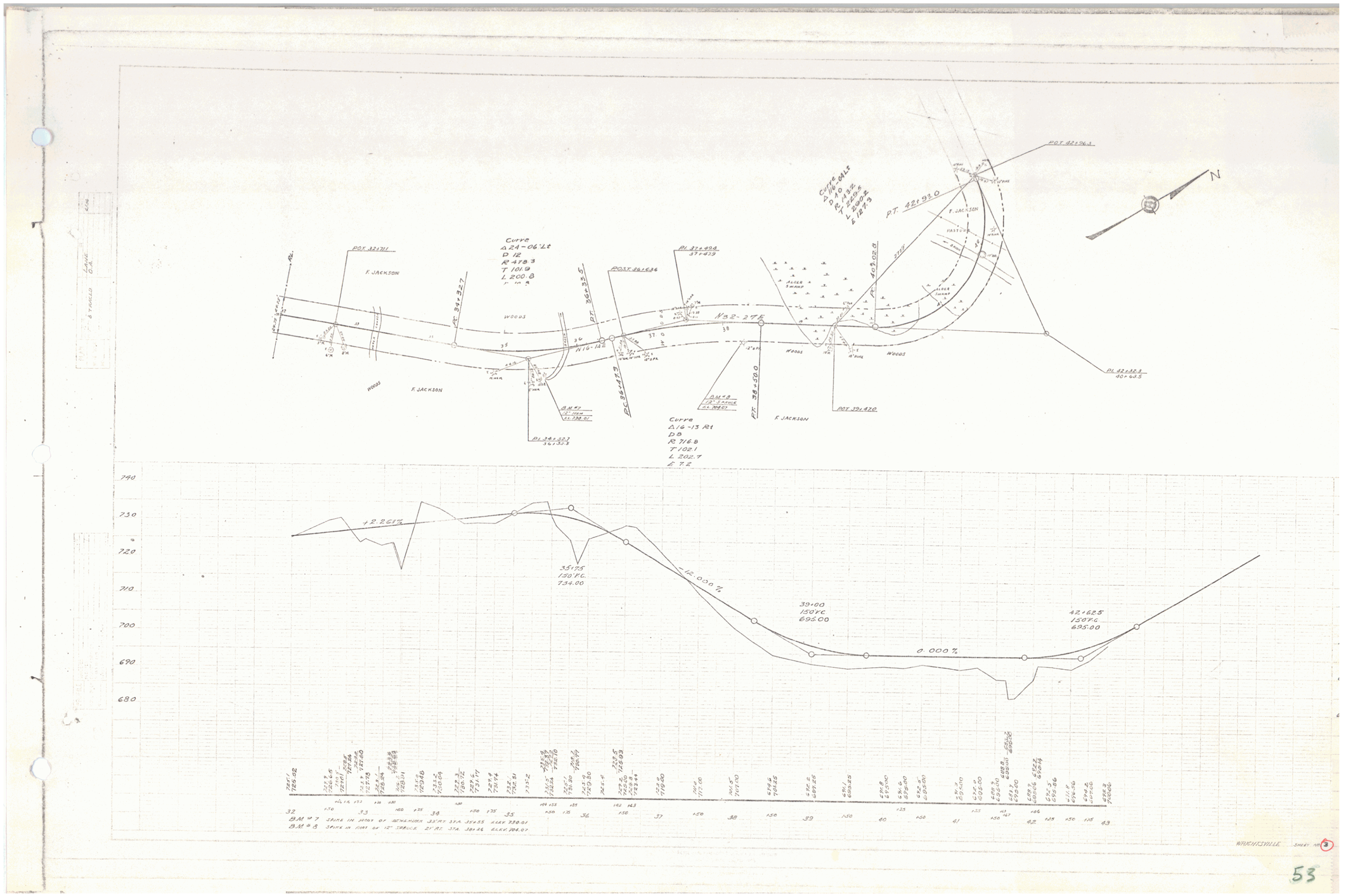
BM #35 SPOT ON CONC. BRIDGE 11' RT. STA 212+55 ELEV. 693.33
BM #36 SPIKE IN ROOT OF 15" ELM 21' LT. STA 220+03 ELEV. 691.52

TOWN of WORCESTER
WRIGHTSVILLE RELOCATION
Sheet 4 of 9

50

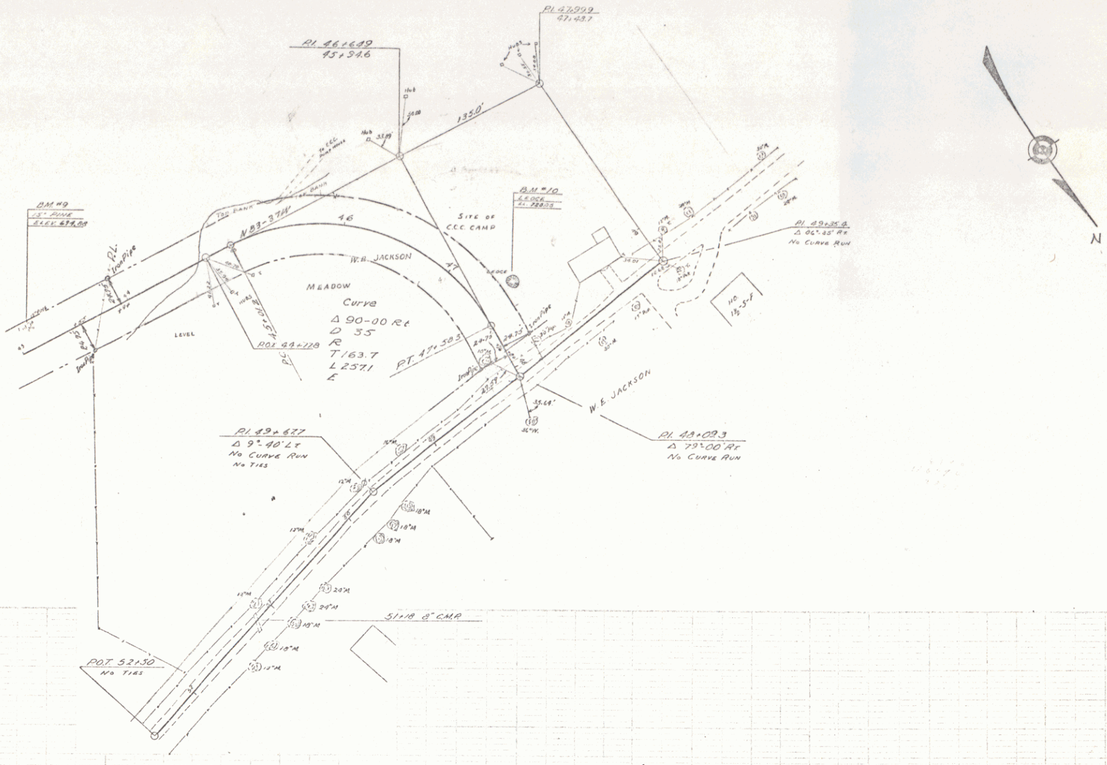

POT 0+30
S 56-30E
Rev PT 2+84.5
Rev Curve
Δ 61-31 Lt.
D 24
R 240.5
T 142.1
L 256.3
E 39.1
Rev PC 4+82.9
Rev PI 3+28.2
3+20.6
PI 3+77.2
3+58.6
BM #1
BRASS HUB
ELEV 694.08
BM #2
PAINT SPOT
ELEV 685.00
N 65-28E
Rev PC 7+82.2
PI 6+25.0
5+97.1
PI 6+76.6
6+03.2
8 6/8" TILE
N 23-57E
Rev PI 9+66.7
9+62.3
PI 9+39.2
9+33.8
Rev Curve
Δ 21-38 Rt.
D 6
R 955.4
T 102.5
L 360.6
E 4.4
POT 14+19.4
PI 16+00.2
15+97.5
N 45-35E
BM #3
PAINT SPOT
EL 684.22
GUY HALE
PC 14+60.5
Curve
Δ 19-22 Rt.
D 7
R 819.0
T 139.7
L 276.7
E 11.8
ALDERS
N
-0.241%
-10.000%
0.000%
5455
160' V.C.
682.00
4+15
120' V.C.
696.00
BM #1 BRASS HUB IN MONUMENT ON SPILLWAY WALL ELEV. 694.08
BM #2 PAINT SPOT ON EDGE OF END OF SPILLWAY CREST ELEV. 685.00
BM #3 PAINT SPOT ON EDGE 16' LT. OF STA. 17+38 ELEV. 684.22
WRIGHTSVILLE
SHEET NO. 1
51


N
PI 16+002
15+373
BM #4
Yellow Stone
El. 687.61
Curve
Δ 24-37 Lt
D 15
R 383.1
T 83.3
L 164.1
E 9.0
PC 17+83.7
PT 19+28.8
G. HALE
MEADOW
19+58 10" CMP
PI 20+831
20+751
BARN
HALE
Curve
Δ 43-47 Lt
D 30
R 143.4
T 57.6
L 109.5
E 11.0
PT 23+41.1
G. HALE
MEADOW
POT 28+137
POT 30+50
BM #6
12" SPRUCE
El. 727.56
PROPOSED GRADING
PASTURE
N 40-20 E
PASTURE
G. HALE
PT 17+32.2
ALDERS
G. HALE
PASTURE
PI 18+680
18+43.3
PC 20+00.9
G. HALE
HB
15-3.1
SHED
BM #5
Yellow Stone
El. 730.39
Curve
Δ 43-47 Rt
D 30
R 204.7
T 80.2
L 153.4
E 15.9
PT 21+57.3
PC 21+39.6
SHED
PI 22+562
22+30.5
740
730
720
710
700
690
680
670
+7.000%
-0.706%
-4.333%
+2.261%
16+50
150' V.C.
682.00
18+75
150' V.C.
709.00
22+75
150' V.C.
737.00
27+00
150' V.C.
734.00
30+00
150' V.C.
727.00
BM #4 PAINT SPOT ON LEDGE 18' LT. STA. 17+38 ELEV. 682.61
BM #5 PAINT SPOT ON LEDGE 18' RT. STA. 21+26 ELEV. 730.39
BM #6 SHINE IN BASE OF 12" SPRUCE 59' LT. STA. 31+73 ELEV. 727.56
WRIGHTSVILLE SHEET NO 9
54



WRIGHTSVILLE SHEET NO. 3

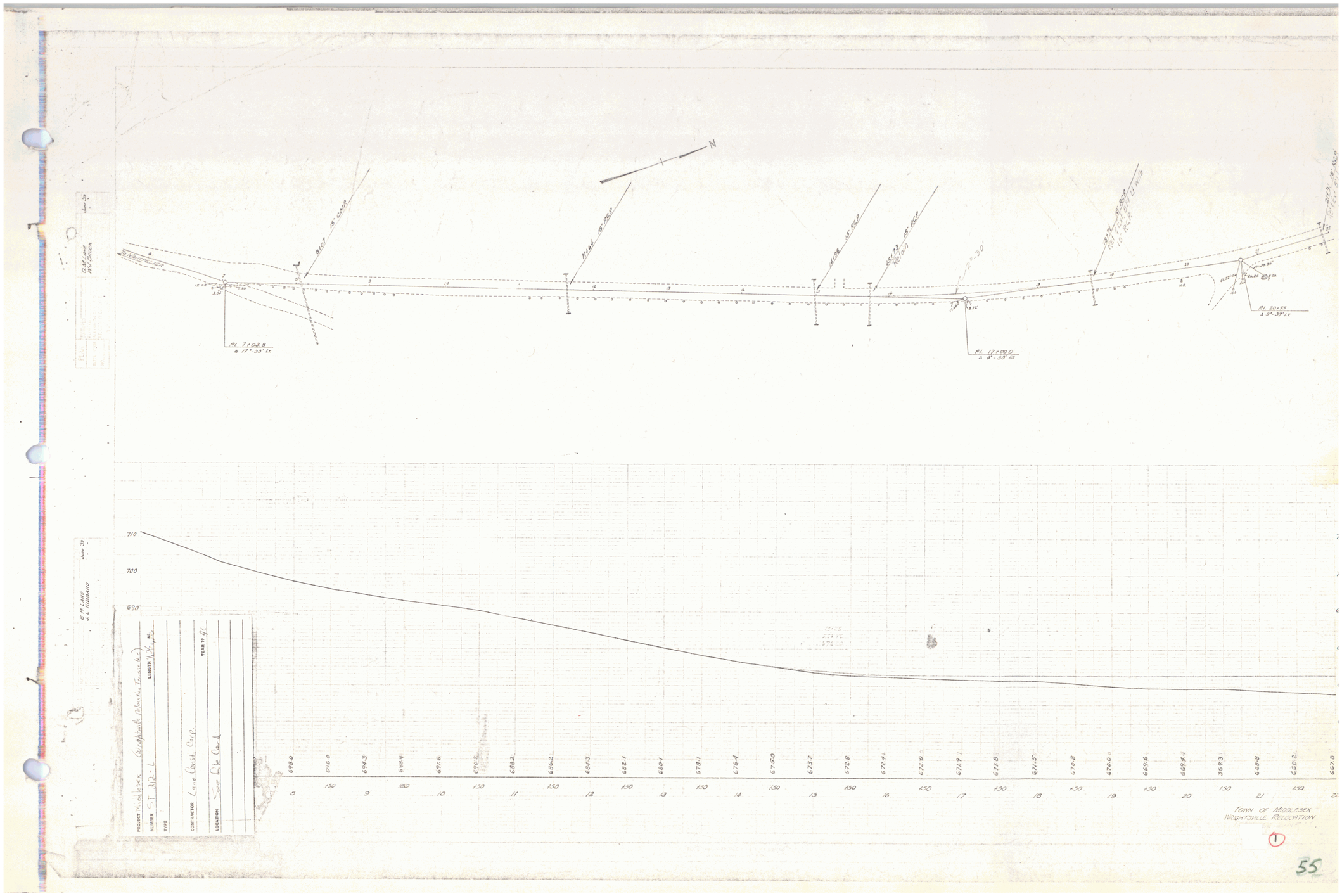
53



BM #9 SPIKE IN ROOT OF 12" PINE 14.5' LT. STA. 93+19 ELEV. 674.08
BM #10 PAINT SPOT ON LEDGE 63' RT. STA. 51+30 ELEV. 729.05

WRIGHTSVILLE SHEET NO. 1

54


N
PI 7+03.8
Δ 17°-33' Lt
PI 17+00.0
Δ 8°-33' Lt
PI 20+35
Δ 3°-37' Lt
To Rockingham
Old Line
Hwy 39
S.T. Line
J.L. Hibbard
Hwy 39
PROJECT Middlesex (Wrightsville Reconstruction)
NUMBER S T 312-1
LENGTH 7.05 mi.
TYPE
CONTRACTOR Lane Construction Corp.
YEAR 19 71
LOCATION See File Card
710
700
690
6980
6940
6943
6949
6946
6918.2
6882
6862
6843
6821
6801
6781
6764
6750
6737
6728
6724
6720
6719.1
6718
6711.5
6708
6700
6696
6694.4
6693
6689
6682
6678
0
50
9
00
10
50
11
50
12
50
13
50
14
50
15
50
16
50
17
50
18
50
19
50
20
50
21
50
TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION
1
55

N

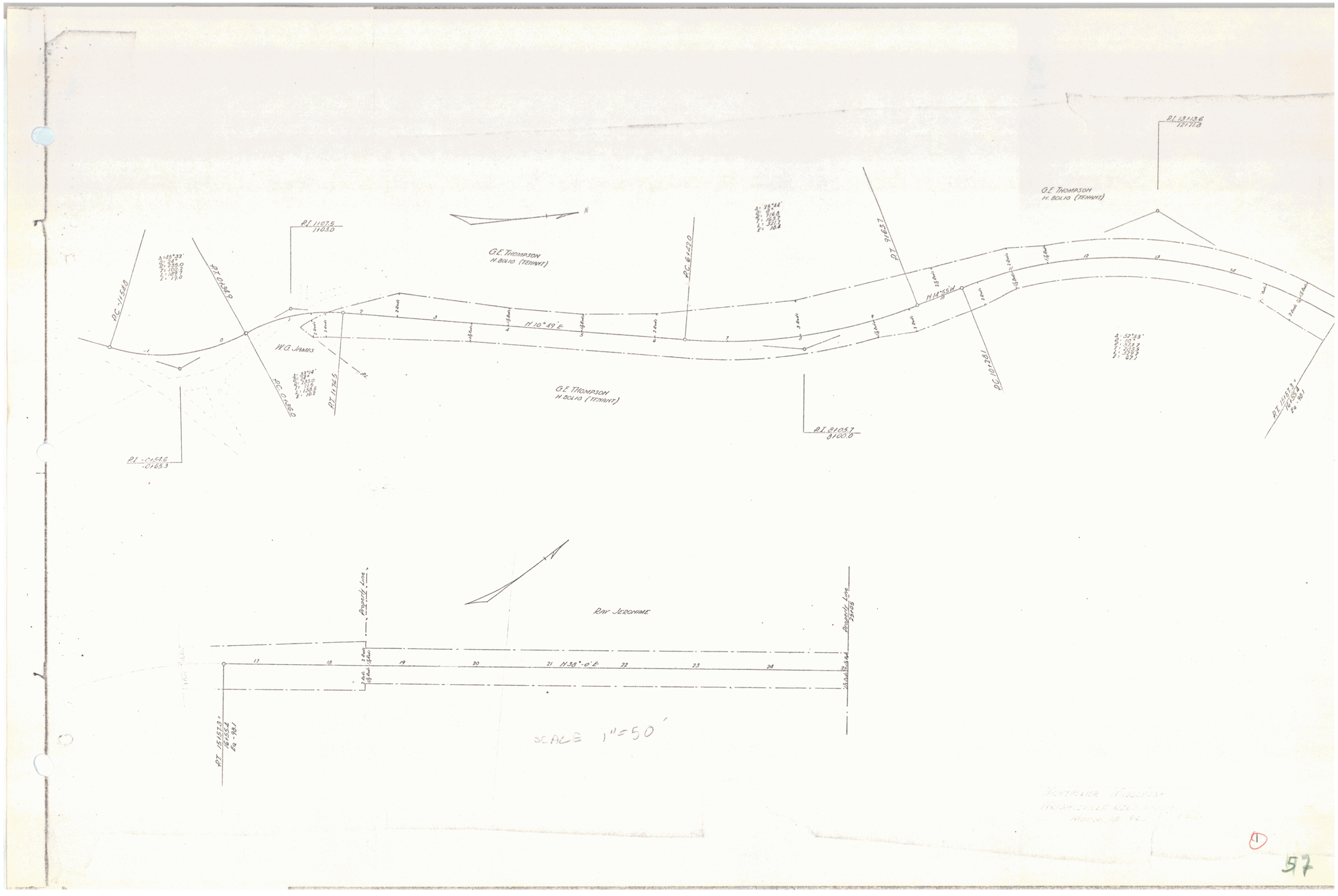
PI 31 130.9
Δ 3°-15' Rt

27+50
208 VC
672.93

680
670
660

TOWN OF MIDDLESEX
WRIGHTSVILLE RELOCATION

54


PI 1107.6
1103.0
PC 1154.8
PT 0956.2
G.E. THOMPSON
H. BOLIO (TENANT)
W.G. JAMES
PC 0956.0
PT 1196.5
PC 6442.0
PT 9162.7
N 14°05'W
PC 10126.1
PI 8105.7
8100.0
PI 13113.6
12711.0
G.E. THOMPSON
H. BOLIO (TENANT)
PI 11813.3
10159.8
PI -01546
-01653
RAY JERCHIME
Property Line
Property Line
N 38°-0'E
SCALE 1"=50'

57

PI 79+39.5

PI 78+47.6

To SHADY HILL

Δ 59-12 RT

SHADY HILL BROOK

PI 814+93.7

Δ 23-27 RT

To MONTPELIER

POT. 77+64.8

PI 75+69.4

Δ 7-30 RT.

PI 82+19.8

Δ 6°

N

Gully

-0.387%

76+00
300'VC.
705.00

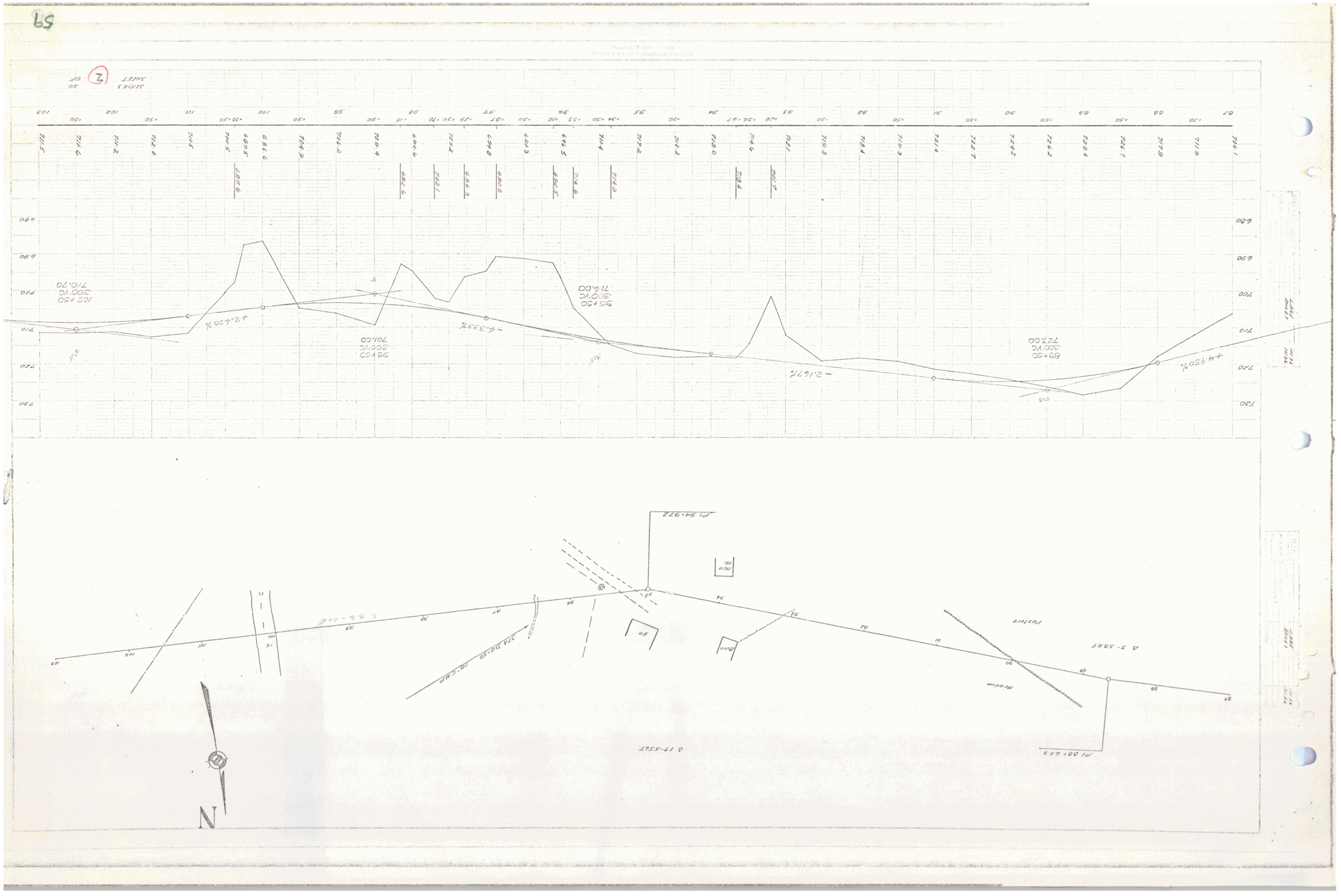
+4.43%

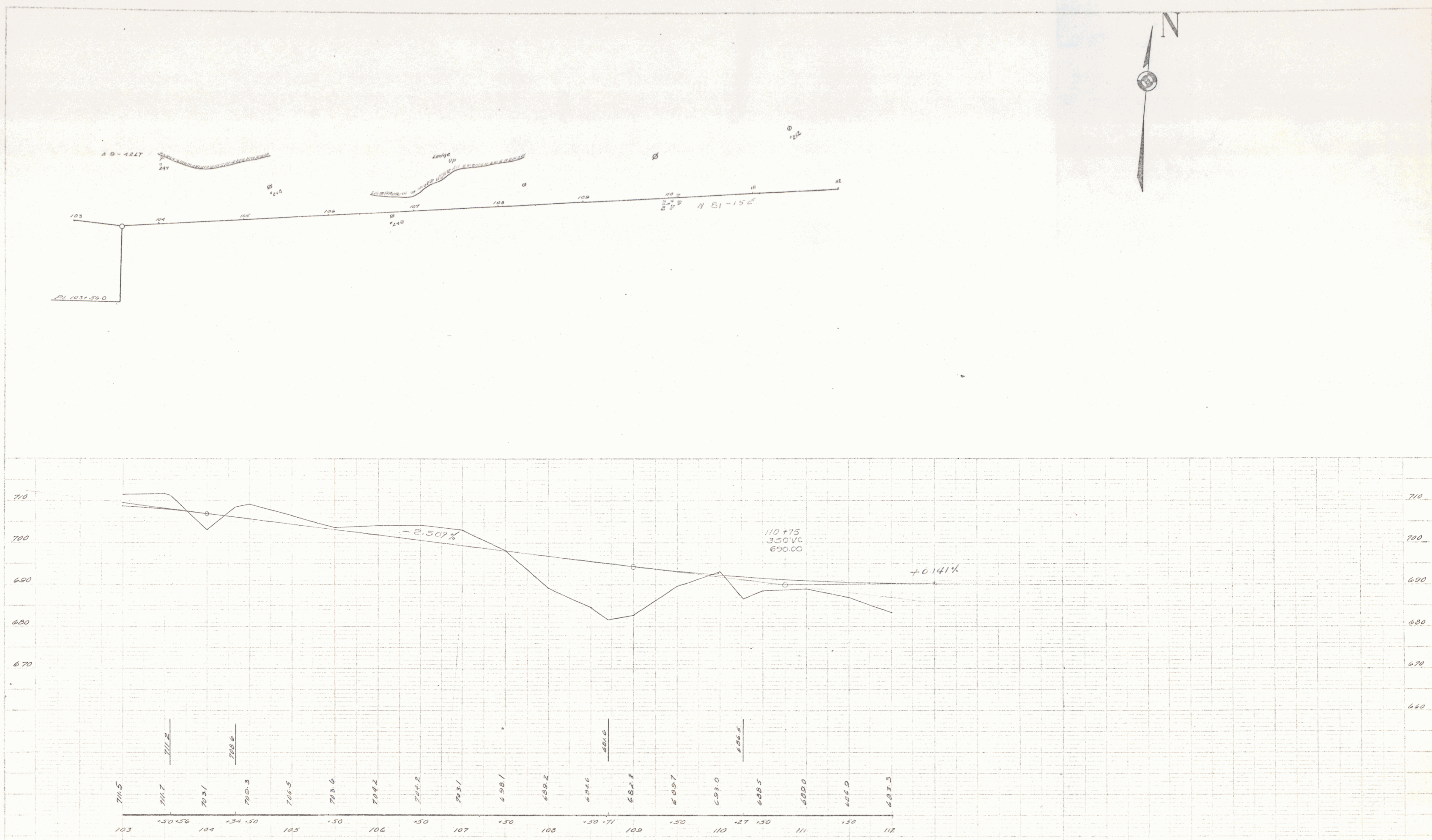
Est. Fld.
El. 694.00

SERIES
SHEET 1 NO
OF

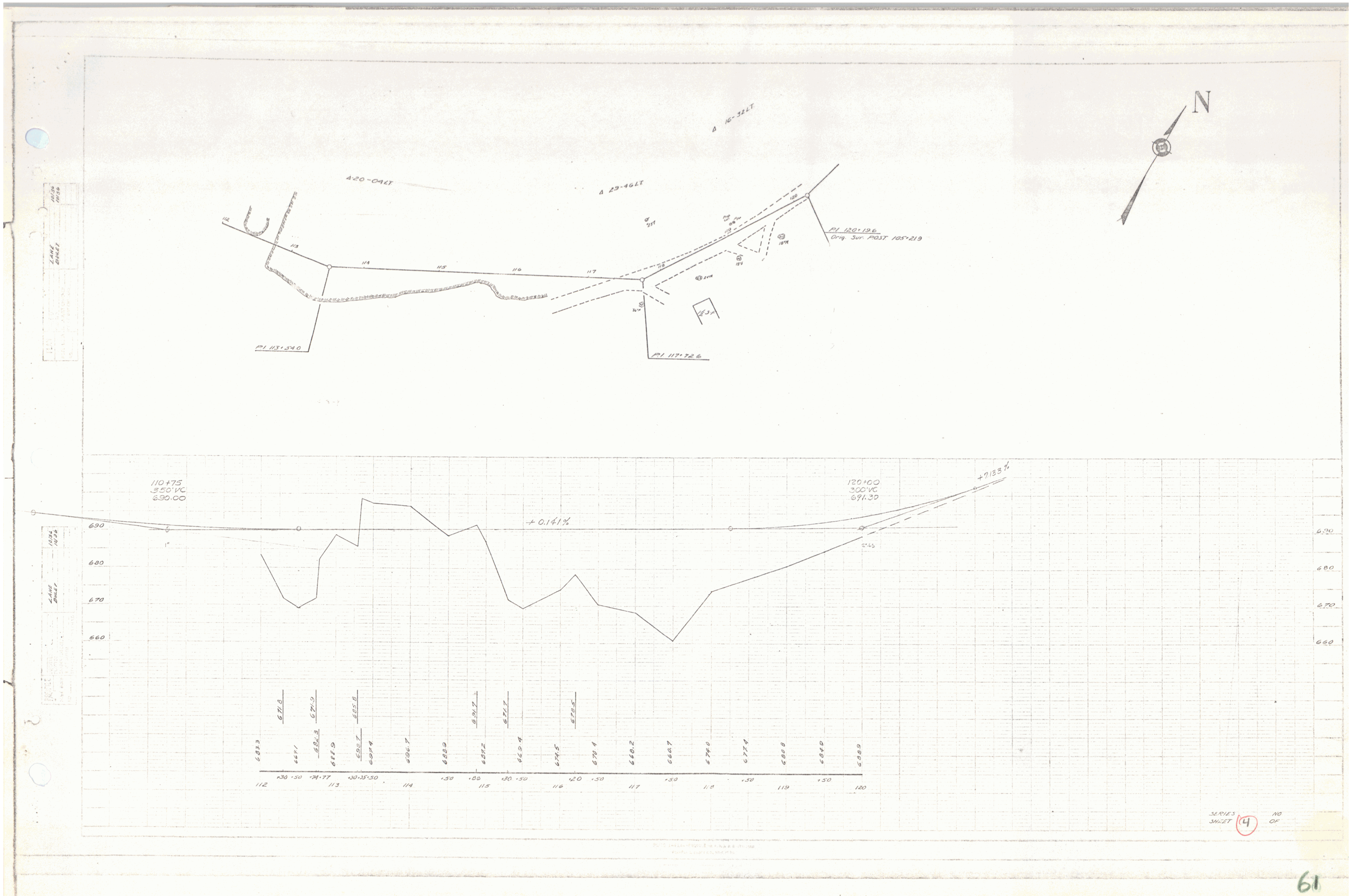
58

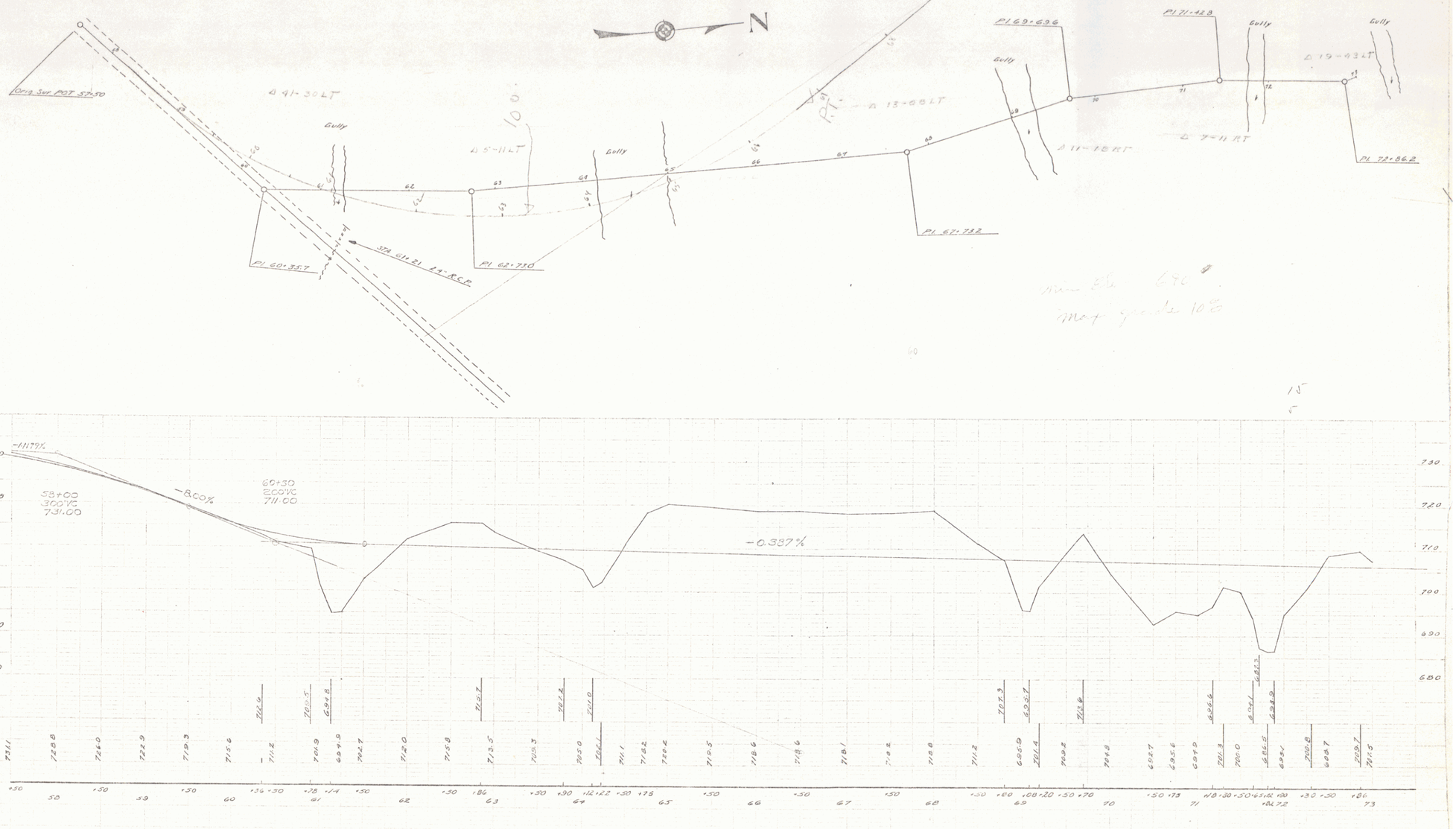
59


SHEET 2 OF TWO SHEETS
N
Pl 94.922
Pl 88.653
Δ 17-55LT
Δ 3-58RT
Meadow
Fenceline
Pl 88.653
Pl 94.922
Δ 17-55LT
Δ 3-58RT
Meadow
Fenceline
102+50
300'VC
710.70
+2.400%
95+50
300'VC
714.00
-4.333%
95+50
300'VC
714.00
-2.167%
89+50
300'VC
727.00
+4.950%
N

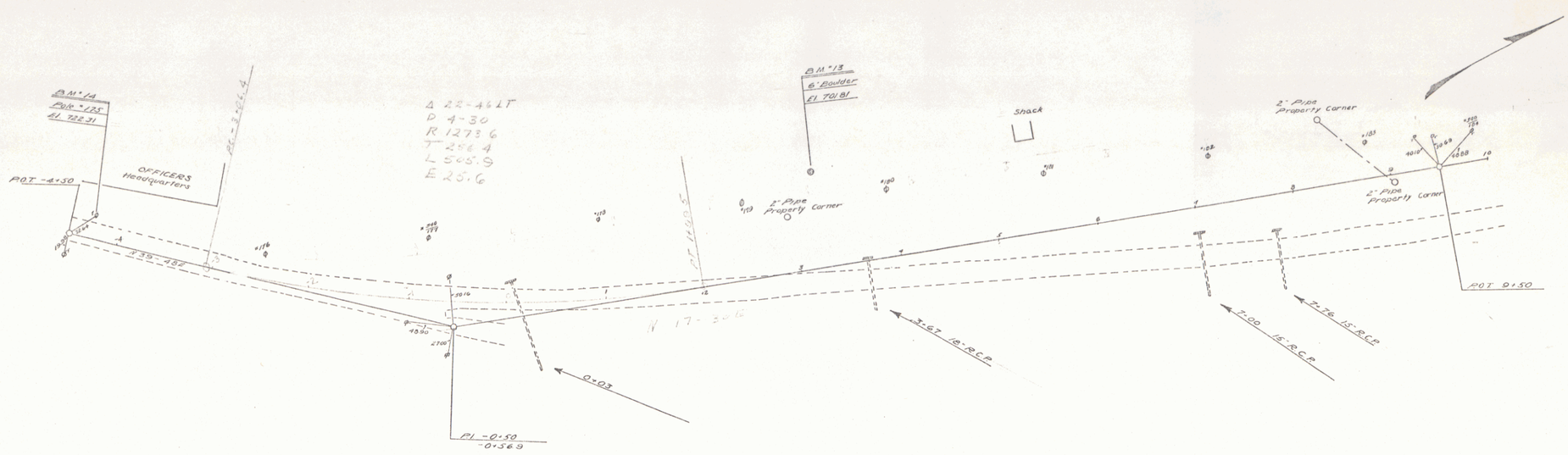


SERIES NO
SHEET 3 OF


N
Δ 20-04 LT
Δ 29-46 LT
Δ 16-32 LT
P.I. 113+54.0
P.I. 117+72.6
P.I. 120+19.6
Orig. Sur. POST 105+21.9
112
113
114
115
116
117
118
119
120
110+75
350'VC
690.00
120+00
300'VC
691.30
+0.141%
+7.133%
690
680
670
660
683.3
671.8
667.1
671.9
682.3
688.9
685.8
698.7
697.4
696.7
688.9
691.7
687.2
671.7
669.4
674.5
678.5
670.4
668.2
660.7
674.0
677.4
680.8
684.9
688.9
+30
+50
+74
+77
+30
+35
+50
+88
+20
LANE
BULEY
SERIES
SHEET
4
NO
OF


Orig. Sur. POT 57.50
Δ 91-30 LT
Gully
Δ 5-11 LT
Gully
Gully
Pl. 60+35.7
374 Cu. Yd. Ex. R.C.P.
Pl. 62+77.0
Pl. 67+73.2
Δ 13-08 LT
Pl. 69+69.6
Gully
Gully
Pl. 71+42.8
Gully
Gully
Δ 19-43 LT
Δ 11-18 RT
Δ 7-11 RT
Pl. 72+86.2
N
-1.117%
-8.00%
-0.337%
58+00
300 VC
731.00
60+30
200 VC
711.00
730
720
710
700
690
680
SERIES
SHEET 1 NO OF

62


BM "14
PDR "175
El 722.31
OFFICERS
Headquarters
POT -4+30
Δ 22-46 LT
D 4-30
R 1273.6
T 256.4
L 505.9
E 25.6
BM "13
6' Boulder
El 701.81
2" Pipe
Property Corner
Shack
2" Pipe
Property Corner
2" Pipe
Property Corner
POT 0+50
4+38.482
0+03
3-67 18" RCP
7.00 15" RCP
7.76 15" RCP
N 17-30 E
PI -0+50
-0+36.9
730
720
710
700
690
680
670
VC 200'
722.7
721.2
719.7
718.2
716.8
715.3
713.8
712.4
710.9
709.4
707.9
706.5
705.0
703.5
702.1
700.6
699.1
697.7
696.2
694.8
693.3
691.9
690.4
688.9
687.5
686.0
684.6
683.1
681.7
680.2
678.8
677.3
675.9
674.4
672.9
671.5
670.0
668.6
667.1
665.7
664.2
662.8
661.3
659.9
658.4
656.9
655.5
654.0
652.6
651.1
649.7
648.2
646.8
645.3
643.9
642.4
640.9
639.5
638.0
636.6
635.1
633.7
632.2
630.8
629.3
627.9
626.4
624.9
623.5
622.0
620.6
619.1
617.7
616.2
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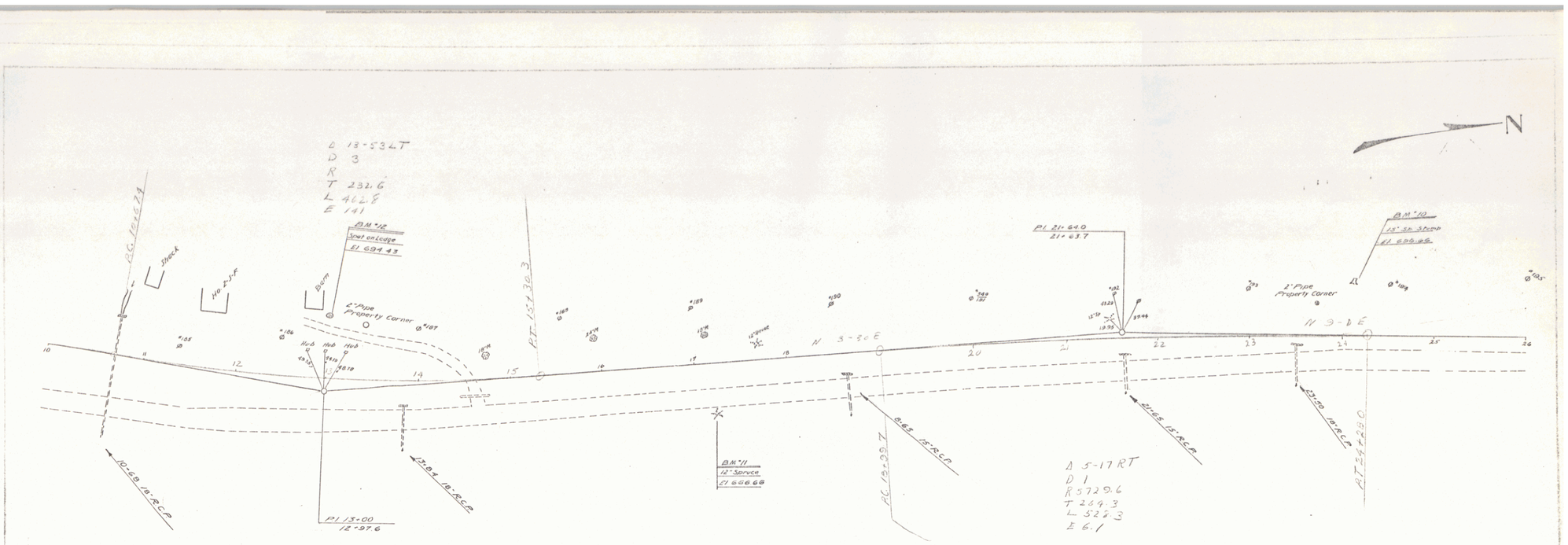
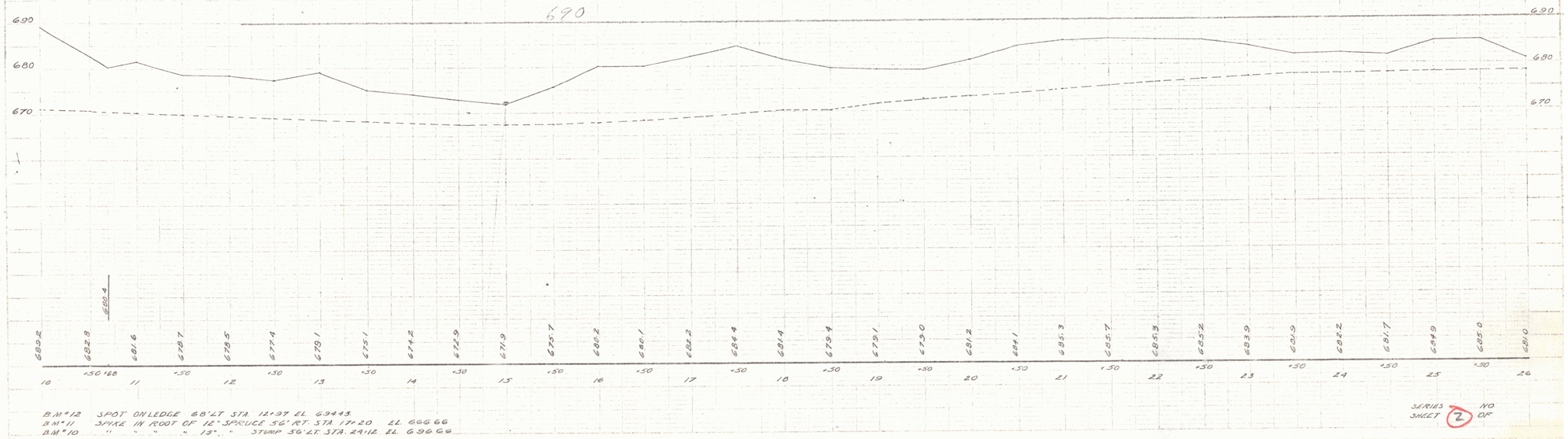
610.4
608.9
607.5
606.0
604.6
603.1
601.7
600.2
598.8
597.3
595.8
594.4
592.9
591.5
590.0
588.6
587.1
585.7
584.2
582.7
581.3
579.8
578.4
576.9
575.5
574.0
572.5
571.1
569.6
568.2
-50
-4
+50
-3
+50
-2
+50
-1
+30
-0
+50
1
+50
2
+50
3
+30
4
+50
5
+50
6
50
177
7
+45
-50
8
+50
+85
9
+50
10
BM "14 SPIKE IN POLE "175 24' LT STA -4+28 EL 722.31
BM "13 SPOT ON 6' BOULDER 95' LT STA 31+25 EL 701.81
SERIES
SHEET 1 NO
OF

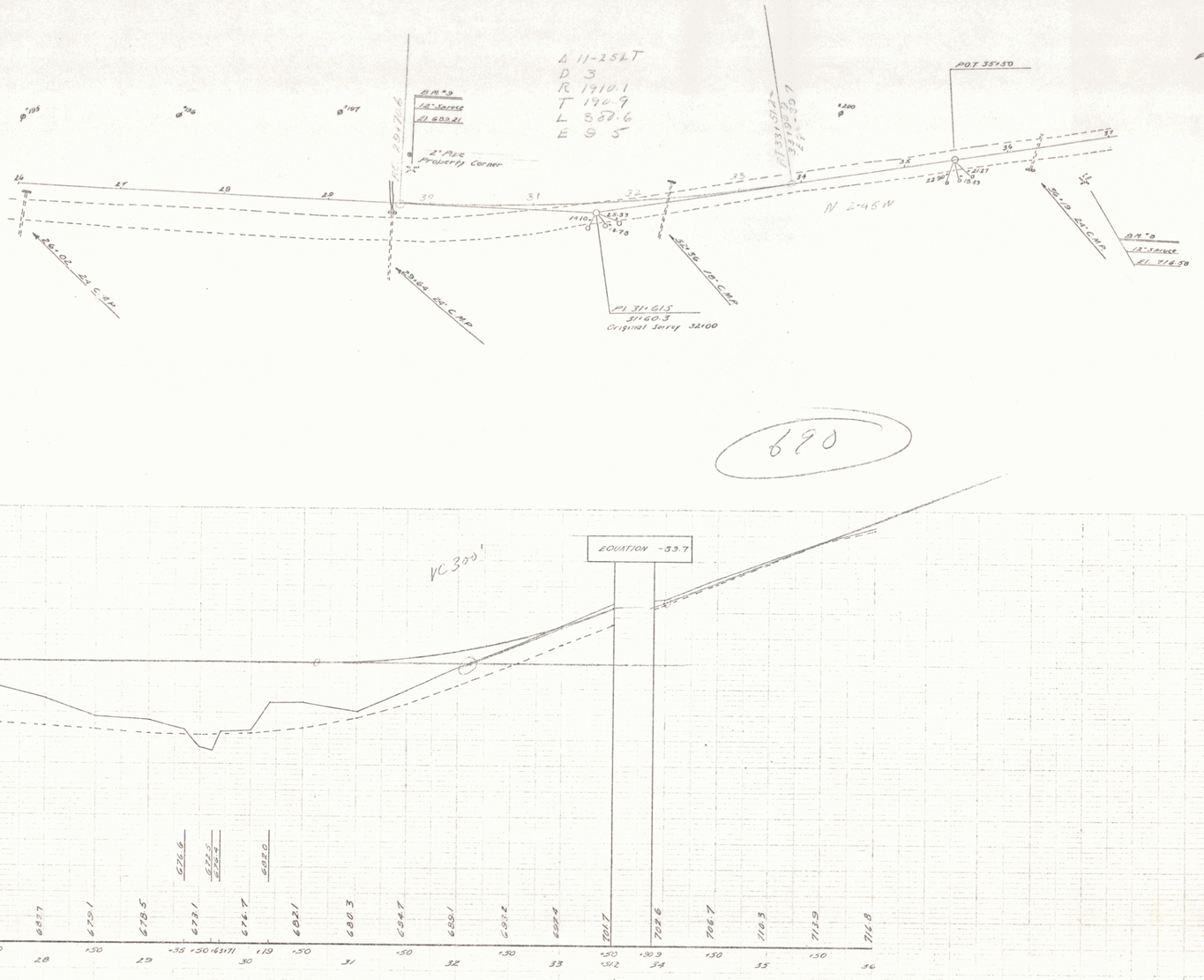
63





B.M.#12 SPOT ON LEDGE 68'LT STA. 12+97 EL 694.43
B.M.#11 SPIKE IN ROOT OF 12" SPRUCE 56' RT. STA. 17+20 EL 666.66
B.M.#10 " " " " 13" " STUMP 56' LT. STA. 24+12 EL 696.98

SERIES NO
SHEET 2 OF


N
Δ 11-25 LT
D 3
R 1910.1
T 190.9
L 358.6
E 9.5
PT 331+91.4
2319.37
POT 351+50
BM #9
12" Spruce
El 689.21
2" Pipe
Property Corner
PI 331+16
N 2-45 W
1410
25.33
1478
PI 311+61.5
311+60.3
Original Survey 32100
26.02 24" C.M.P.
29.64 24" C.M.P.
30.38 24" C.M.P.
30.19 24" C.M.P.
BM #8
12" Spruce
El 716.58
EQUATION -33.7
VC 3°
720
710
700
690
680
670
677.6
678.7
675.6
677.5
676.4
682.0
681.0
683.7
684.3
683.7
685.1
687.7
688.5
687.1
676.4
682.1
680.3
684.7
686.1
691.2
693.4
701.7
702.6
706.7
710.3
713.9
716.8
+03 +23 +50 +50 +50 +50 +35 +50 +63.11 +19 +50 +50 +50 +30.9 +50 +30 +50
26 27 28 29 30 31 32 33 34 35 36
BM #9 SPIKE IN ROOT OF 12" SPRUCE 34' LT. STA 29+80 EL. 689.21
SERIES
SHEET 3 NO
OF

1935 3 43

REINFORCED CONCRETE PIPE

STATION	DIA.	LENG.	C.R.M.
4+00	18"	48'	1.9 cy.
6+50	15"	52'	1.5 "
8+00	18"	56'	1.9 "

CORR. GALV. METAL PIPE (ASP CTD.)

STATION	DIA.	LENG.	M.C.M.
0+25	18"	76'	1.9

Officers Quarters

B.M. #13
Tel. Pole
Elev. 715.23

Rev. PC - 3+06.4

Rev. PT 0+95.3

P.I. 1+99.5

Δ 22° 46' Lt
D 4° 30'
R 1273.6
T 256.4
L 505.9
E 25.6

Revised Curve
Δ 17° 23
D 4° 30'
R 1273.6'
T. 194.6'
L. 386.3'
E 14.8'

Rev. PC 7+33.3
= 8+95.1
(Chord S 5° E)

Rev. PT 8+17.3
= 8+95.1
= 8+78.2
(Chord S 5° E)

Δ 5° 06'
D 3° 10'
R 1810.0'
T 80.1'
L 170.0'
E 1.9'

PC 11+33.3

N 38° 30' E
To MONTPELIER

Rev. P.T. -1+06.4
= -1+09.3

Side Road

Field

Prop. Line N15° 05' E 5.40'

N 17° 00 E

Hub

B.M. #12
Tel. Pole
Elev. 659.79

REVISED LINE

Rev. PT 8+28.4
= 8+08.2

To PUTNAMVILLE

P.I. -0+50.0
= -0+56.9

STA. -2+50
BEGINNING OF PROJECT

0+00
300' P.C.
695.70

6+25
300' P.C.
647.27

-2.90%
-1.20%
+3.80%
-0.826

-2+50 - 1+50
12" BASE

1+50 - 3+25
18" BASE

3+25 - 8+00
12" BASE

8+00 - 9+70
18" BASE

Revised Grade

BM #12 SPIKE IN TEL. POLE 61' RT. OF STA. 4+95 ELEV. = 655.75
BM #13 " " " 20' RT. OF STA. -2+52 ELEV. 715.23

SERIES
SHEET 9 NO. OF 43

66

Reinforced Concrete Pipe

Station	Diameter	Length	C.R.M.
11+50	18"	47'	1.9 c.y.
15+00	18"	48'	1.9 c.y.

Clay Bank Up

Property Angle Hub

N 3° 25' E 434'

N. 17° 09' E

Rev. P.C. 9+81.3

STA. 10+07 18" R.C.P. 48 FT. (INVERT 3.49)

STA. 10+55 18" R.C.P. 48 FT. (INVERT 3.49)

Rev. P.C. 10+12.4

REV.
Δ 130° 26' LT
D 3° 00'
R 1910.1
T 224.9
L 427.8
E 13.2

PROPOSED DRIVE
130° 35' LT
130.1
224.9
432.5
13.9

Property Angle Pipe

N 3° 25' E 1132

Rev. P.C. 14+39.9
= 14+37.7

Rev. P.T. 15+05.2
= 15+02.0

STA. 16+00 18" R.C.P. 48 FT. (INVERT 3.49)

Rev. P.C. 16+12.5
= 16+09.3

STA. 16+55 18" R.C.P. 48 FT. (INVERT 3.49)

N 3° - 25' E

B.M. "11
12" SPRUCE
ELEV. - 666.66

Rev. P.T. 17+05.5
= 17+02.3

Eq. - 324
= 324

Eq. - 324
= 324

REVISED GRADE

9+25
300' V.C.
698.49

-3.87%

-0.826%

+1.46%

9700 - 11+00 18" BASE

10+25 - 11+50 12" BASE

15+50 - 16+50 15" BASE

16+50 - 18+00 12" BASE

9	+25	+50	10	+50	+75	11	+50	12	+50	13	+50	14	+25	+50	15	+25	+50	16	+50	17+50

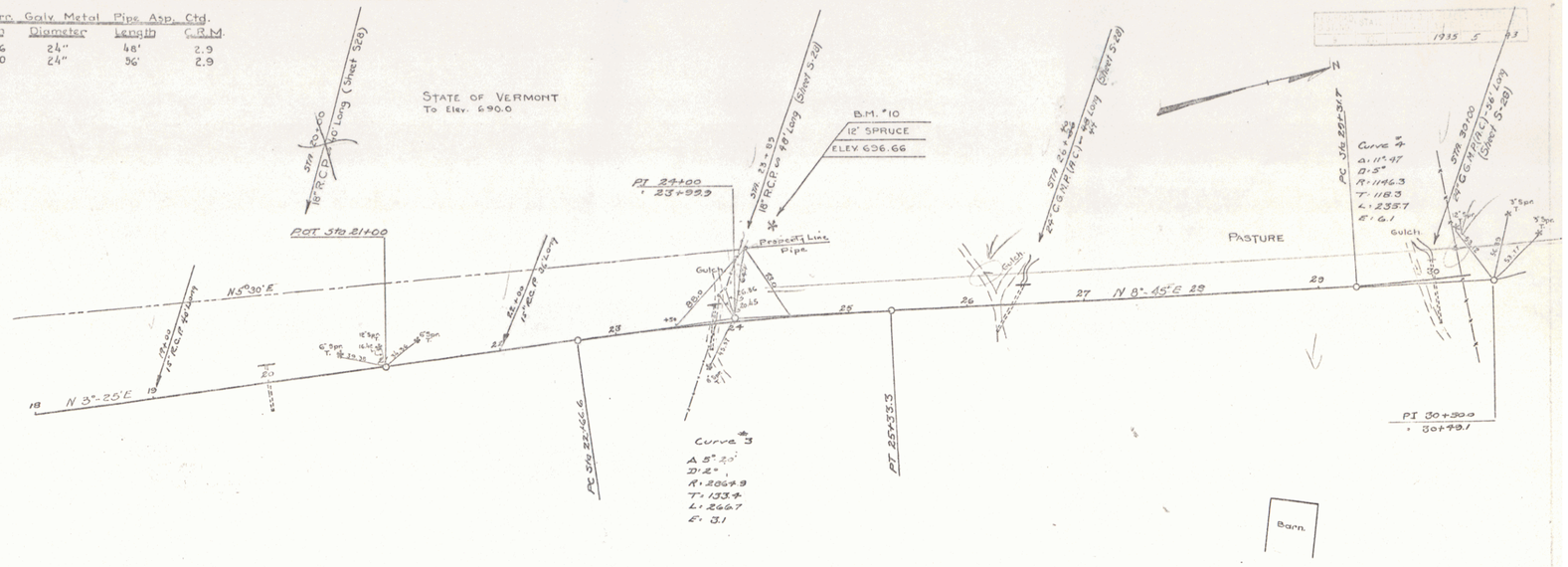
B.M. "11 SAKE IN ROOT OF 12" SPRUCE 15' RT. OF STA. 17+62 ELEV - 666.66

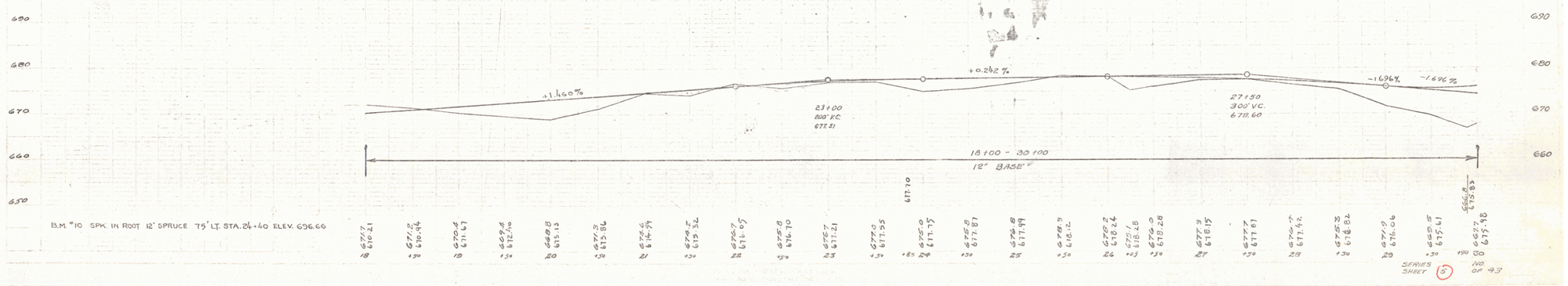
SHEET 4

67

Reinforced Concrete Pipe			
Station	Diameter	Length	C.R.M.
20+00	18"	40'	1.9
23+85	18"	48'	1.9

Corr. Galv. Metal Pipe Asp. Ctd.			
Station	Diameter	Length	C.R.M.
26+36	24"	48'	2.9
30+00	24"	96'	2.9





B.M. #10 SPK. IN ROOT 12" SPRUCE 75' LT. STA. 24+40 ELEV. 696.66

SERIES SHEET 5 NO OF 43

1935 6 93

REINFORCED CONCRETE PIPE

STATION	DIA.	LENG.	C.R.M.
42+11	24"	40'	2.9 c.y.

CORR. GALV. METAL PIPE (ASP CTD)

STATION	DIA.	LENG.	C.R.M.
34+30	18"	56'	1.9 c.y.
36+27	24"	36'	2.9 "
39+09	24"	72'	2.9 "

Curve #4
Δ 11°47'
D 5°
R 1146.3
T 118.3
L 235.7
E 6.1

P.I. STA 31+67.4

STA 34+30 18" C.M.P.(A.C.) - 56' Long (Sheet 5:28)

STA 36+27 24" C.M.P.(A.C.) - 36' Long (Sheet 5:28)

STA 39+09 24" C.M.P.(A.C.) 72' Long (Sheet 5:28)

STA 42+11 24" R.C.P. - 40' Long (Sheet 5:28)

B.M. # 9
12" Maple
Elev. 738.20

B.M. # 8
12" Hemlock
Elev. 760.41

C.E. LOWE

C. E. LOWE
Wooded & Pasture

LIMIT OF ROW

Gulch.

WOODED
Trees 12" and under

WOODED
Trees 12" and under

P.O.T. 44+218

P.I. 30+300
to 30+491

P.O.T. 35+32.0

P.O.T. 40+41.2

N 3°-02' W

STA 30+00 - 33+50
12" BASE

STA 33+50 - 38+75
18" BASE

STA 38+75 - 40+50
12" BASE

STA 40+50 - 45+00
18" BASE

+8.000%

+2.400%

+6.000%

30+50
300' V.C.
673.51

36+00
200' V.C.
717.51

43+00
300' V.C.
734.31

B.M. #9 SPK. IN ROOT 12" M. 190' LT. 35+40 ELEV. 738.20
B.M. #8 SPK. IN ROOT 12" HEM. 38' RT. 44+56 ELEV. 760.41

SERIES
SHEET 69 NO. OF 93

69

Reinforced Concrete Pipe			
Station	Dia.	Leng.	Sq. Ft. M.
52120	12"	66'	1.9
53100	18"	49'	1.9

Reinforced Concrete Box				
Station	Size	Leng.	Cov. D.	Steel
45173	4:4	76'	41.7	4055

PI 50+51.9
= 49+91.5

Limit of ROW

Wooded

WOODED
Trees 12" and under

Draw

WOODED
Trees 12" and under

Bridge Fence

52+43
18" R.C.P. = 46' Long (Sheet 526)

55+00
18" R.C.P. = 40' Long (Sheet 526)

B.M. #6
12" Pine
Elev. 739.79

POST 46+61.8

N 3°-02'W

PC 45+98.9

PT 54+45.5

POT 57+50.0

Pasture

N. 47°-42'-E

Δ : 30°-44'
D : 6°
R : 955.4
T : 153.0
L : 845.6
E : 10.3

1935

770
760
750
740
730

+6.00 %

49+00
350' VC
770.31

-8.00 %

53+25
300' VC
736.31

-1.1179 %

58+00
300' VC
731.00

-8.00 %

45+50 - 46+50
12" RCP

46+50 - 50+50
18" RCP

Sta. 45+00 to 60+00
Subgrade of Gravel

50+50 - 61+50
12" RCP

BM #6 SPK. IN ROOT 12" PINE 100' LT. STA. 56+10 ELEV. 739.79

742.8 746.31 | 739.0 748.41 | 731.6 749.31 | 740.2 751.31 | 756.6 758.31 | 760.0 759.81 | 764.2 758.31 | 765.2 758.85 | 774.5 765.18 | 773.6 766.18 | 772.5 764.19 | 772.0 764.18 | 763.4 763.17 | 765.0 761.18 | 757.3 758.18 | 738.89 | 736.2 731.82 | 734.5 726.11 | 729.3 724.18 | 734.6 734.63 | 731.1 734.35 | 731.1 735.19 | 731.4 733.24 | 730.8 732.68 | 732.8 731.93 | 738.4 730.64 | 721.8 728.84 | 724.4 725.86 | 719.9 722.71 | 716.5 719.00 | 714.8 715.00

+35 +50 +12 +09 +25 +50 +50 +50 +50 +50 +75 +50 +25 +50 +50 +79 +50 +50 +50 +50 +50

45 46 47 48 49 50 52 53 54 55 56 57 58 59 60

Series Sheet 7 No. of 43

70

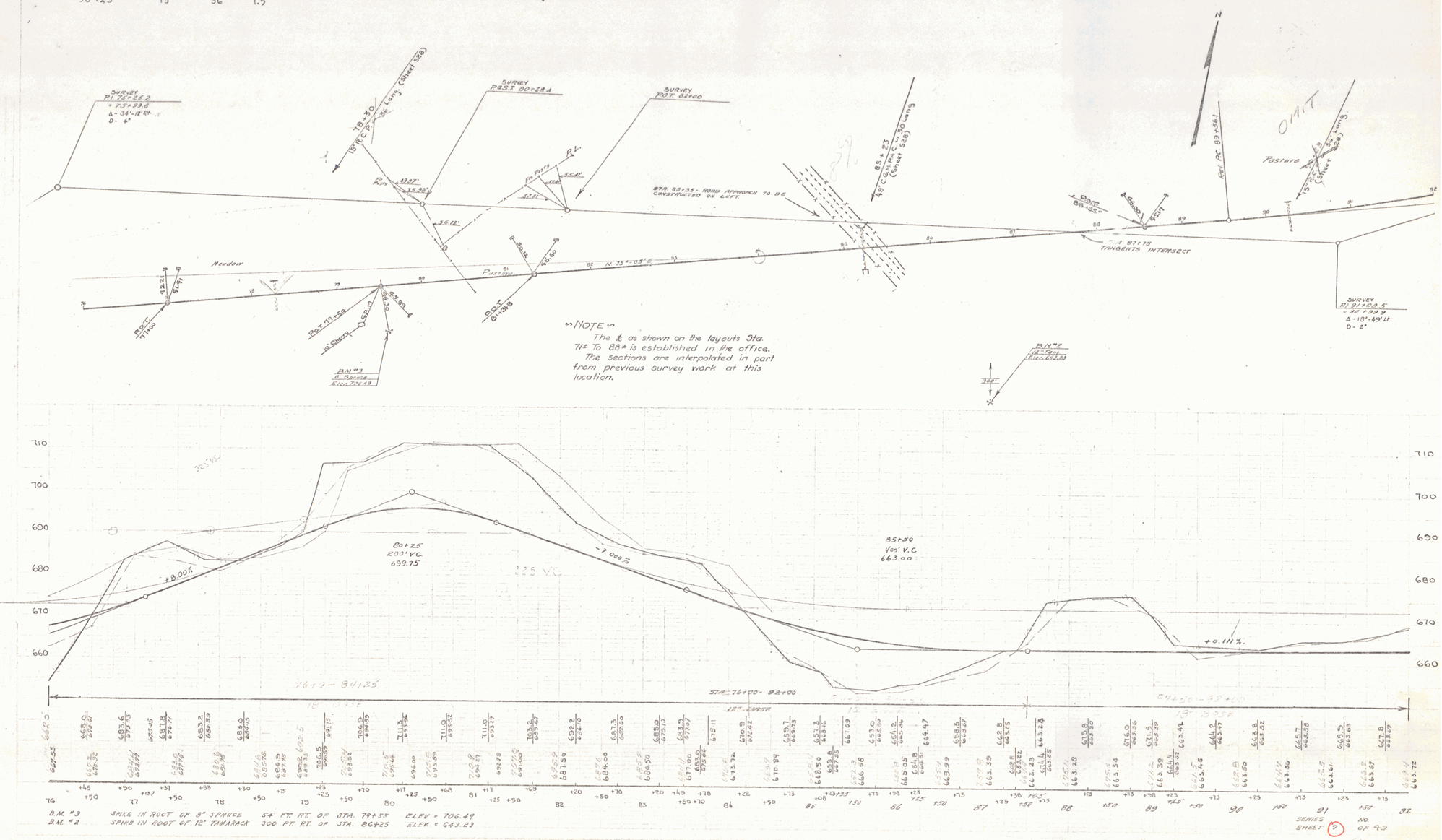
1935 9 43

Reinforced Concrete Pipe

Station	Diameter	Length	C.R.M.
78 + 30	15"	36'	1.9
90 + 23	15"	36'	1.9

Corr. Galv. Metal Pipe (Asp. Ctd.)

Station	Diameter	Length	Conc. A	Steel
85 + 23	48"	50'	8.0 cy.	901 lbs.



NOTE

The ℄ as shown on the layouts Sta. 71+ To 88+ is established in the office. The sections are interpolated in part from previous survey work at this location.

SERIES D NO. SHEET 5 OF 93

75

1935 10 93

Rev. Curve
Δ 12°00" (appx)
D 2°
R 2864.9
T 301.1
L 600.0
E 15.8

Reinforced Concrete Pipe

Station	Diameter	Length	C.R.M.
93+03	24"	56'	2.9 c.f.s.
99+22	18"	56'	1.9 c.f.s.

93+03 24"RCP ⇒ 56' Long (Sheet 528)

Rev. PT 93+378.1
300.00' @ 2°
Elevation = 664.79

Rev. PI 92+38.0
= 92+359

Rev. Curve
Δ 48°-00'
D 6°
R 955.0
T 458.2
L 800.0
E 90.4

16"RCP ⇒ 56' Long (Sheet 528)

Survey Point 99+611

To Montpelier

Ledge

Rev. PT 102+32.3

P.O.S.T. 1081960

To Palmerville P.O.
& Worcester

N 19°45'E 109

Meadow

School Yard

Barn

Survey Point 102+57.5
= 102+07.1

STA. 104+00
END OF PROJECT

EQUATION
-24.00 FT.

101+25
300' VC
664.72

+7.000%

+0.111%

92+0 - 94+75

94+75
98+00 - 106+00
12" BASE

EQ. -26.4'

SERIES
SHEET 90 NO. OF 93

72