

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. QUANTITY SHEET
- 3. PLAN & PROFILE
- 4. PLAN SHEET
- 5. PLAN & ELEVATION
- 6. SUPERSTRUCTURE DETAILS
- 7. ABUTMENT DETAILS
- 8. REINFORCING SCHEDULE
- 9-15 ROADWAY X-SECTIONS
- 14-17 CHANNEL X-SECTIONS

Std. Sheets

- D-2 12-16-76 (R)
- G-1a 11-29-77 (R)
- SB-R6-76 1-B-76
- SCB-D1-75 4-25-77 (R)
- E-2 6-7-77 (R)
- E-3 6-7-77 (R)

GENERAL NOTES:

1. For additional notes see standard Sht. SCB-D1-75 Notes 4, 6, 7 & 14
2. Overflow conditions will occur at Q20 if the roadway grade is raised in the future. Flood water depths would be increased upstream over those presently predicted. The hydraulic requirements should be rechecked if such a project were ever contemplated.
3. All abutment and superstructure concrete shall be Class B.
4. All exposed concrete shall be coated with Water Repellant.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS



PROPOSED IMPROVEMENT
BRIDGE PROJECT

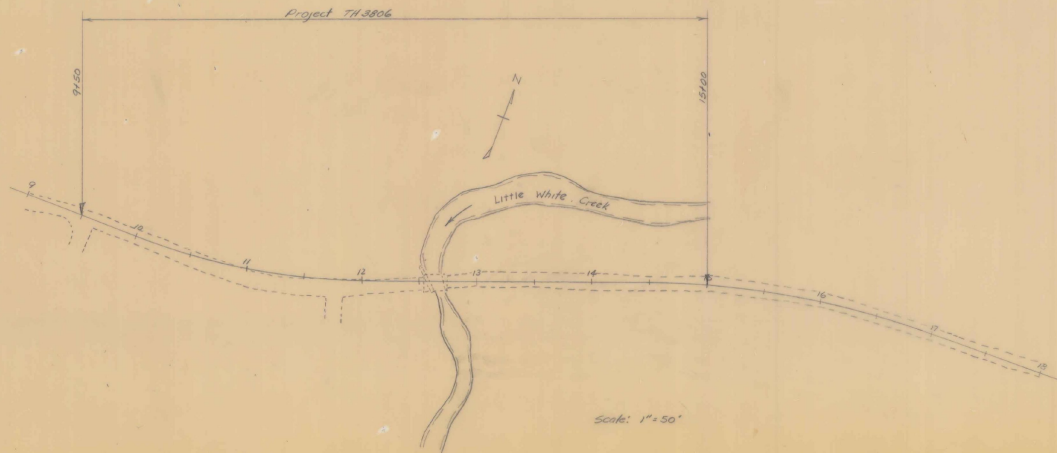
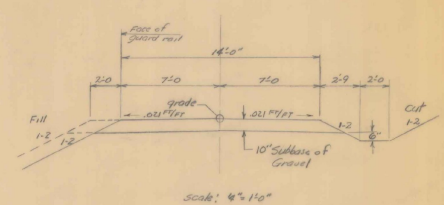
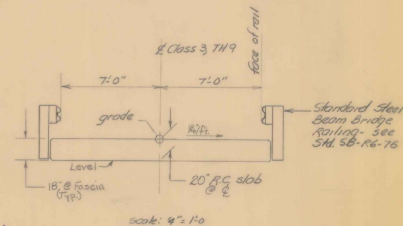
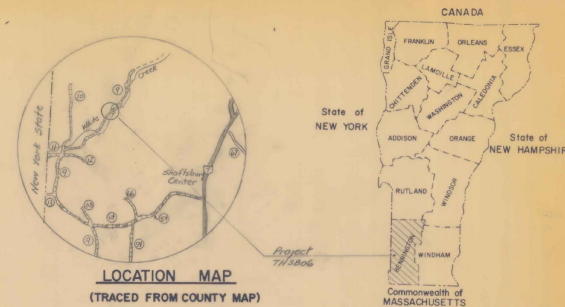
TOWN OF SHAFTSBURY
COUNTY OF BENNINGTON

ROUTE NO: Class 3 TH 9 BRIDGE NO: 19

PROJECT LOCATION: Project shall begin 1/2 mile northeast of the intersection of TH 9 and TH 10 and extend 350 feet northeasterly along TH 9.

PROJECT DESCRIPTION: Project shall consist of the removal of the existing structure, replacement with a new simple span RC slab bridge with new abutments, and required roadway and channel work.

LENGTH OF STRUCTURE:	24	FEET
LENGTH OF PARTICIPATION ROADWAY:	200	FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	326	FEET
LENGTH OF PROJECT	550	FEET



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

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

APPROVED: *A. J. Gage* DATE 8-31-78
CHIEF ENGINEER

Class 3 TH 9 Over
Little White Creek

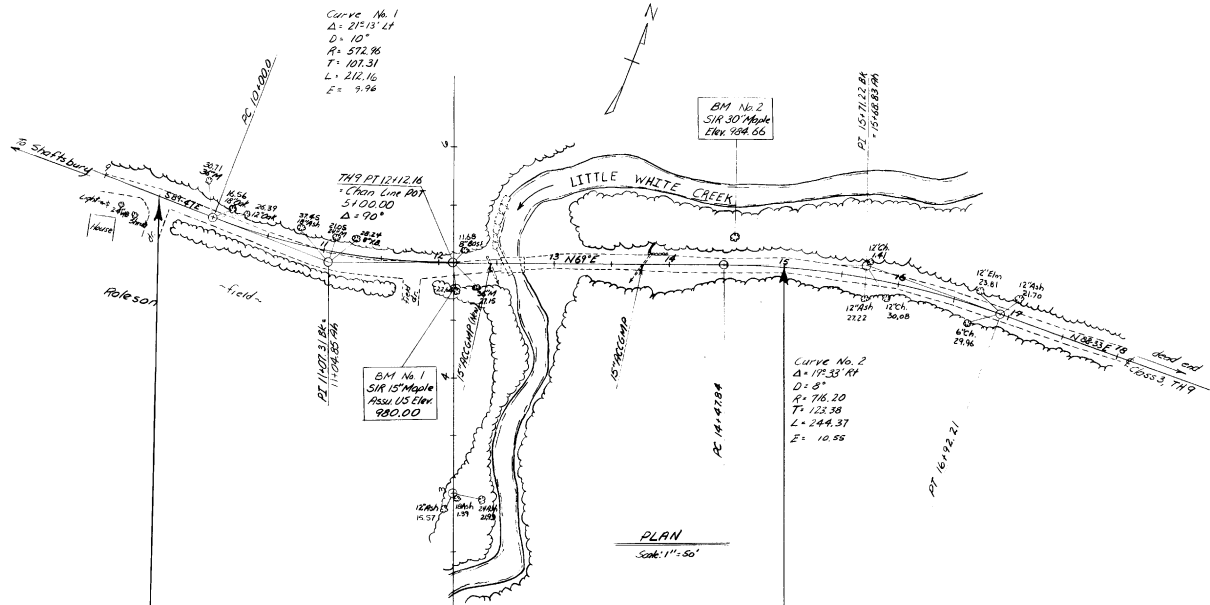
PROJECT NO.
SHAFTSBURY TH 3806
SHEET 1 OF 19 SHEETS

SRS 12/17/70

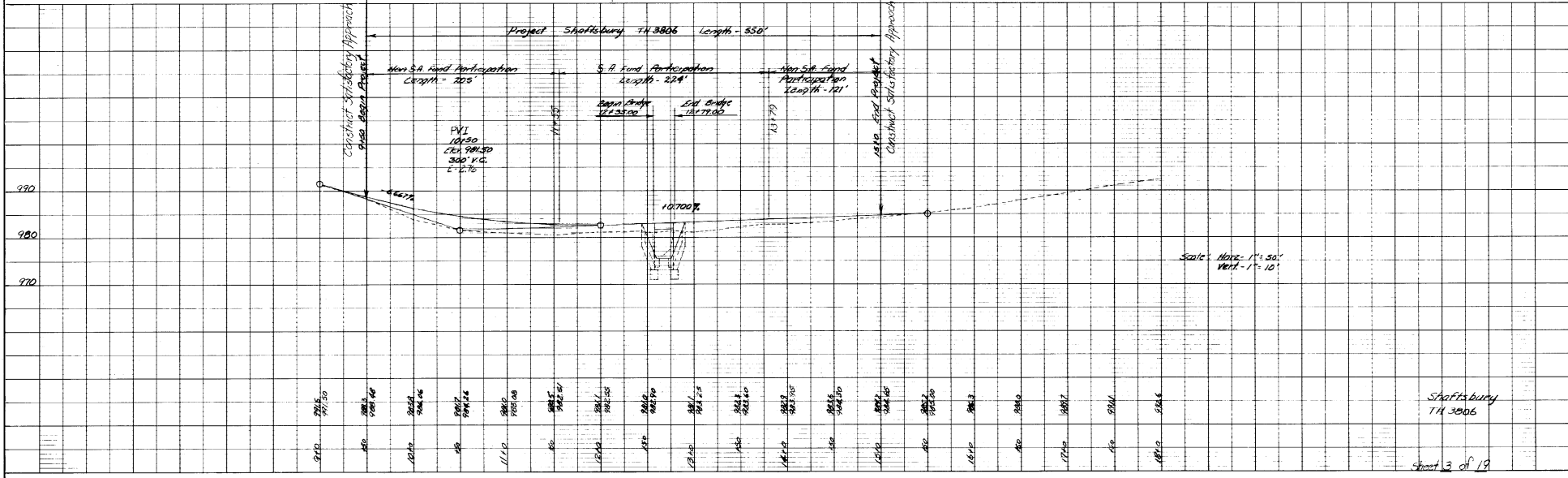
PLAN
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 10/27/17
 PROJECT: [Signature]
 SHEET: [Signature]

PROFILE
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 10/27/17
 PROJECT: [Signature]
 SHEET: [Signature]

Existing Bridge Data
 Span - 16'
 Width - 14'
 Flank rock with log beams
 & Log abutments



HYDRAULIC DATA
 Drainage Area = 4.8 Sa.M (12.5 Sa.KM)
 $Q_{10} = 800$ CFS (23 CMS); HW = 5.7' (1.7 M)
 $Q_{25} = 1000$ CFS (28 CMS); HW = 6.7' (2.0 M)
 $Q_{50} = 1300$ CFS (37 CMS); HW = 8.0' (2.4 M)
 $Q_{100} = 1500$ CFS (43 CMS); HW = 8.3' (2.5 M)
 Tailwater @ $Q_{25} = 4.3'$ (1.3 M)
 Outlet Velocity @ $Q_{25} = 11.6$ FPS (3.5 MP)
 Ordinary High Water 15 cfs
 Depth of flow 1.5'



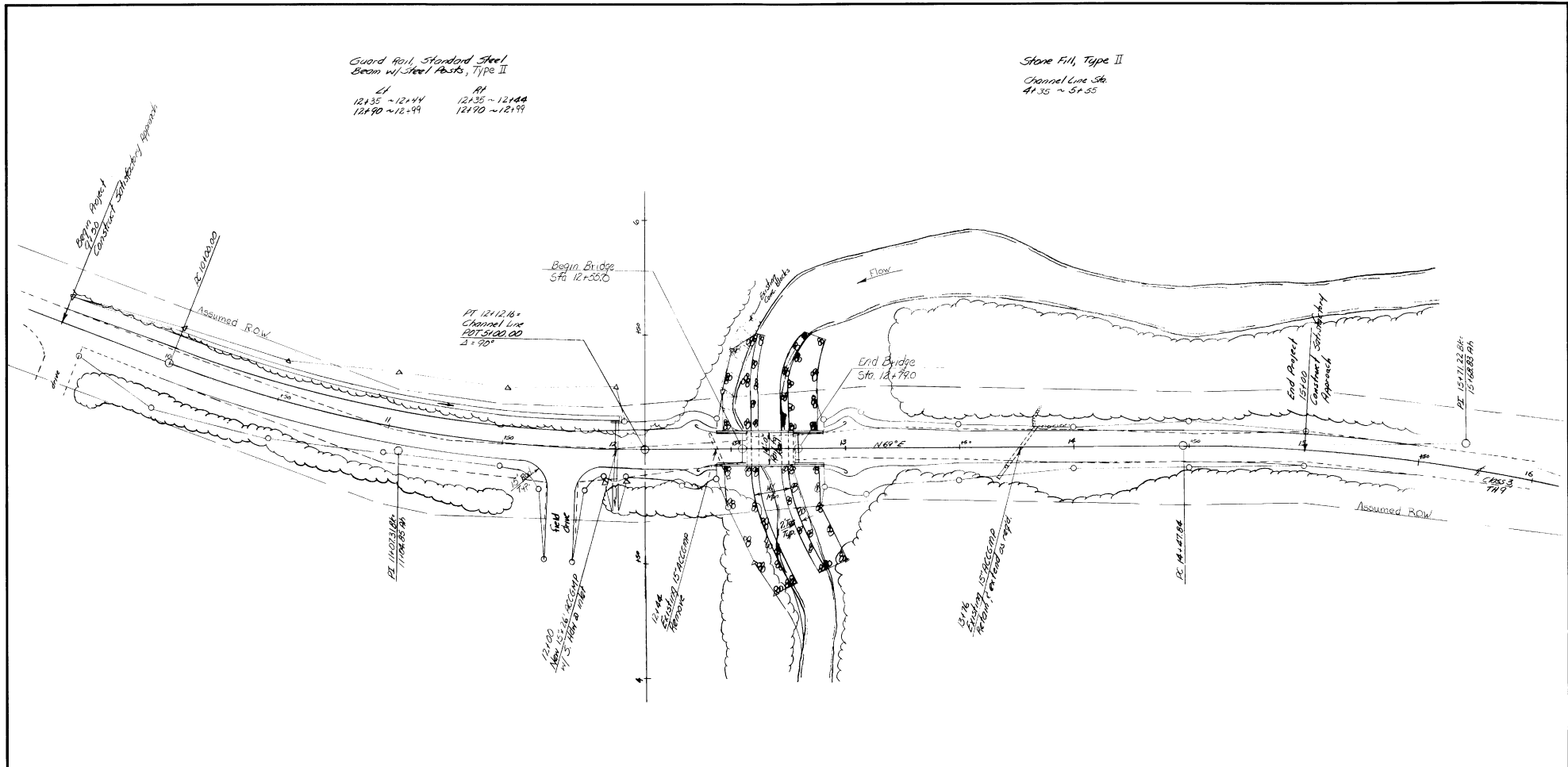
Shaftsbury
 TH 3806
 Sheet 3 of 19

Guard Rail, Standard Steel
Beam w/ Steel Posts, Type II

21	AP
12+35 ~ 12+44	12+35 ~ 12+44
12+40 ~ 12+49	12+40 ~ 12+49

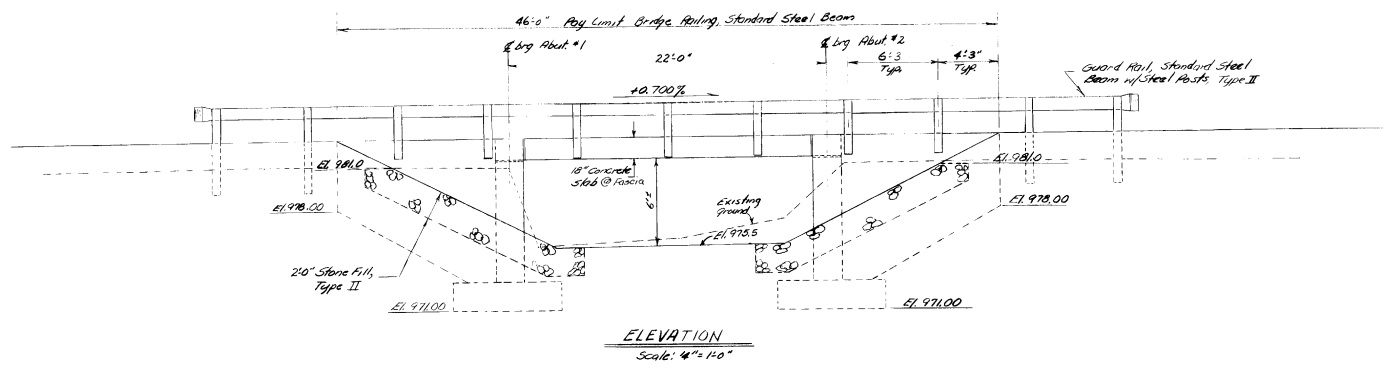
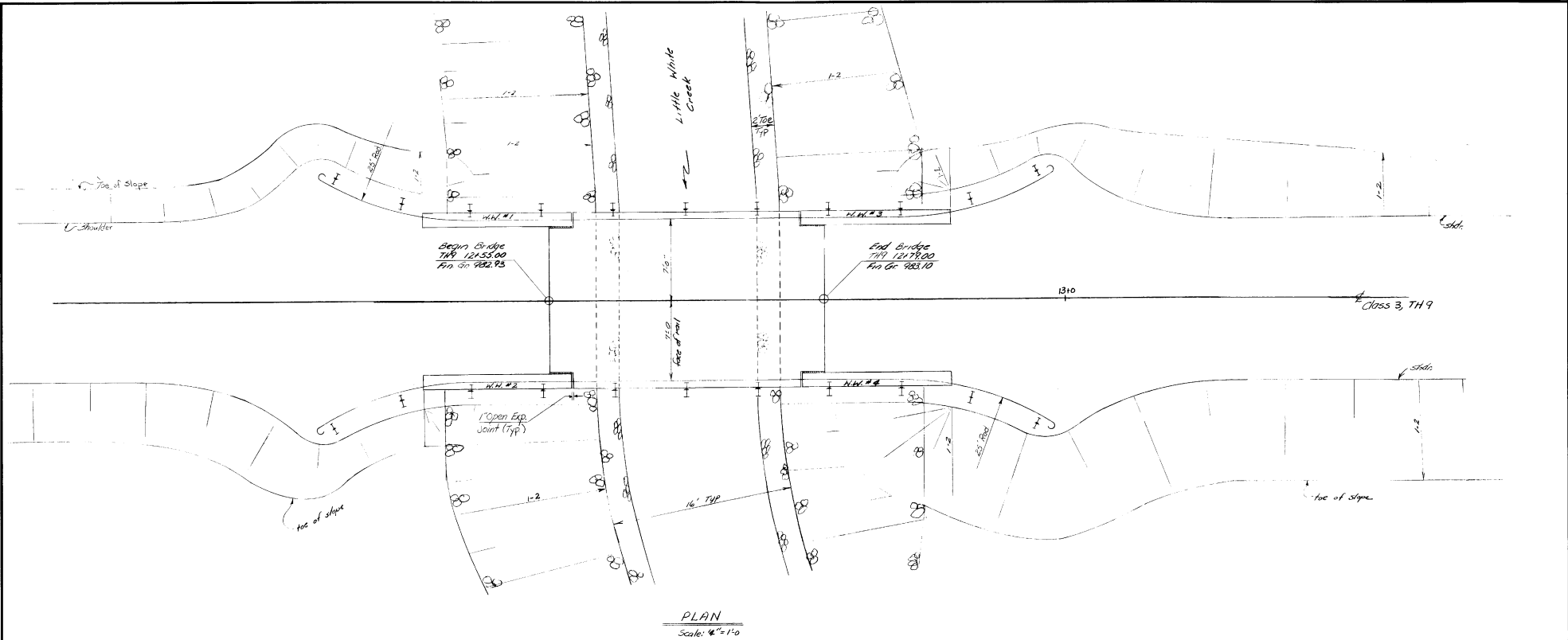
Stone Fill, Type II

Channel Line Sta.
4+35 ~ 5+55

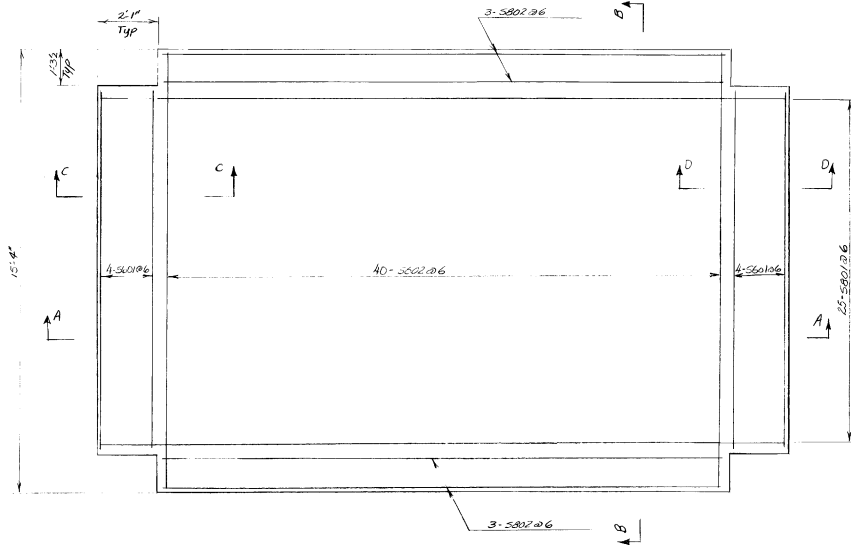


PLAN
Scale: 1" = 20'

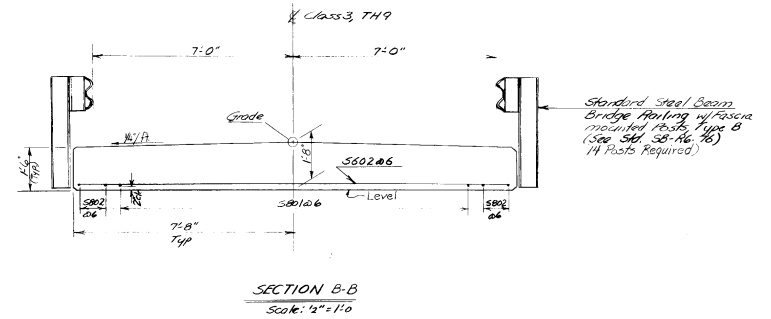
STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
TOWN OF <i>Shaftsbury</i>	Bridge No.
HIGHWAY NO. <i>Class 3 TH9</i>	Log Sta.
<i>Class 3 TH9 Over Little White Creek</i>	Surv. Sta.
<i>Plan</i>	
Designed by <i>A. Elwood</i>	Drawn by <i>A. Elwood</i>
Checked by <i>LADD</i>	Bridge Design Supervisor
<i>date 1-78</i>	<i>RS. Haupt</i> date
PROJECT <i>SHAFTSBURY</i>	PROJECT NO. <i>TH 3806</i>
Bridge Sheet No.	Sheet <i>4</i> of <i>19</i>



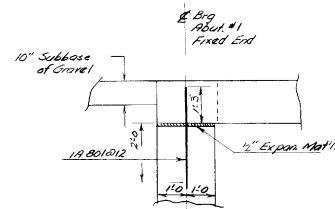
STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
TOWN OF <i>Shaftsbury</i>	Bridge No.
HIGHWAY NO. <i>Class 3, TH 9</i>	Log Sta. <i>12+61</i>
<i>Class 3, TH 9 Over Little White Creek</i>	
<i>Plan & Elevation - Structure</i>	
Designed by <i>A. Elwood</i>	Drawn by <i>A. Elwood</i>
Checked by <i>LADD</i>	Bridge Design Supervisor <i>R.S. Haupt</i>
date <i>1-78</i>	date
PROJECT <i>SHAFTSBURY</i>	PROJECT NO. <i>TH 3806</i>
Bridge Sheet No.	Sheet <i>5</i> of <i>19</i>



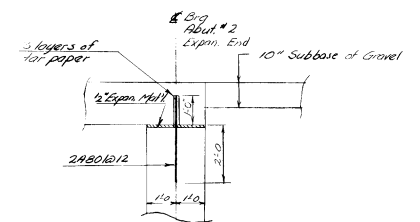
PLAN
Scale: 1/2" = 1'-0"



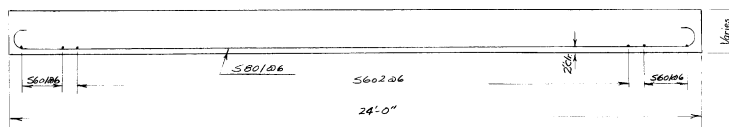
SECTION B-B
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"



SECTION D-D
Scale: 1/2" = 1'-0"

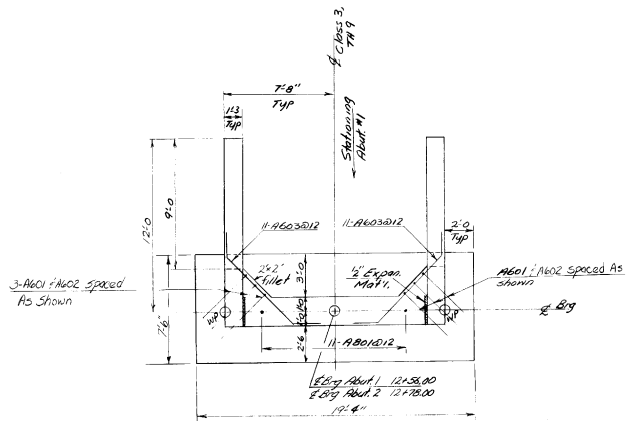


SECTION A-A
Scale: 1/4" = 1'-0"

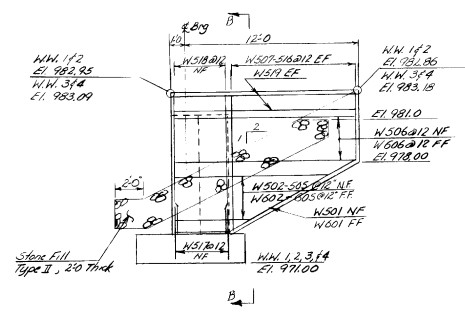
* Note: 1. All concrete in the superstructure shall be concrete, Class B

**STATE OF VERMONT
DEPARTMENT OF HIGHWAYS**

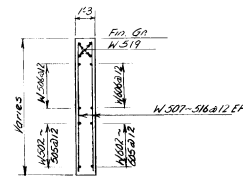
TOWN OF <i>Shaftsbury</i>	Bridge No.
HIGHWAY NO. <i>Class 3 TH9</i>	Log Sta.
<i>Class 3 TH9 Over Little White Creek</i>	Surv. Sta. <i>12167</i>
<i>Superstructure Details</i>	
Designed by <i>A. Elwood</i>	Drawn by <i>D. Elwood</i>
Checked by <i>LADD</i>	Bridge Design Supervisor
date <i>1-78</i>	<i>R.S. Haupt</i> date
PROJECT <i>SHAFTSBURY</i>	PROJECT NO. <i>TH 3806</i>
Bridge Sheet No.	Sheet <i>6</i> of <i>19</i>



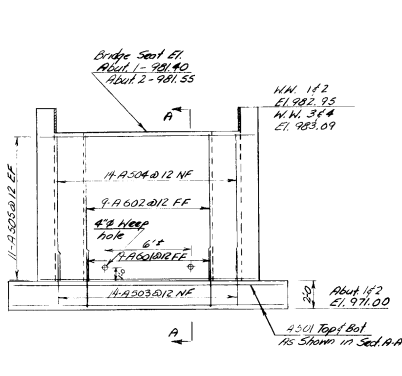
PLAN ABUTMENT 1F2
Scale: 4" = 1'-0"



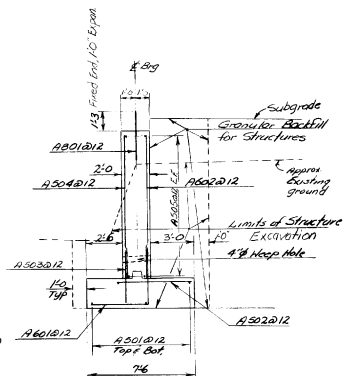
WINGWALL ELEVATION
Scale: 4" = 1'-0"



SECTION B-B
Scale: 4" = 1'-0"



ELEVATION ABUTMENT 1F2
Scale: 4" = 1'-0"

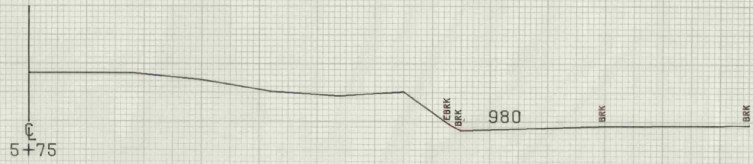


SECTION A-A
Scale: 4" = 1'-0"

NOTES

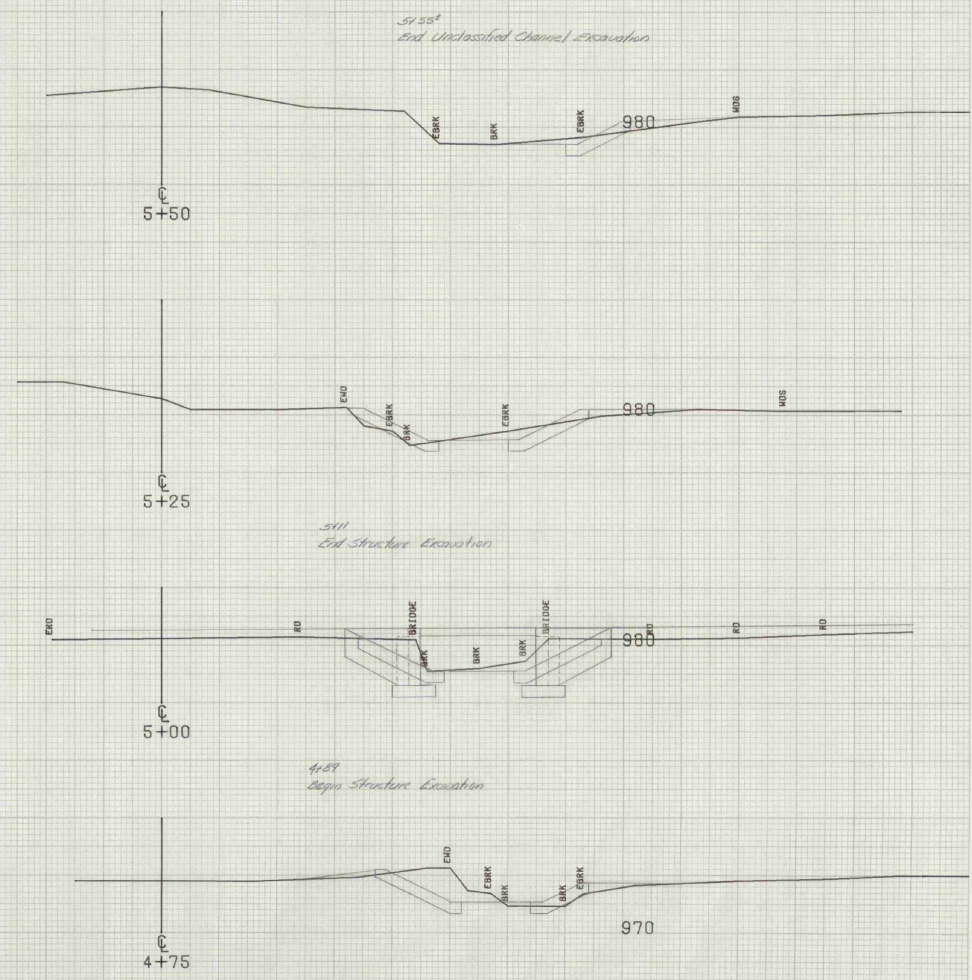
1. All concrete in the abutments shall be Concrete Class B.
2. Abutment footings are designed for a maximum bearing pressure of 4 K.S.F.
3. Expansion material shall be performed Joint Filler, Cork and shall be secondary to concrete, Class B, AASHTO M153, Type II

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
TOWN OF <i>Shaftsbury</i>	Bridge No.
HIGHWAY NO. <i>Class 3, TH9</i>	Log Sta.
<i>Class 3, TH9 Over Little White Creek</i>	
<i>Abutment Details</i>	
Designed by <i>A. Elwood</i>	Drawn by <i>A. Elwood</i>
Checked by <i>LADD</i>	Bridge Design Supervisor
date <i>1-78</i>	<i>A.S. Haupt</i> date
PROJECT <i>SHAFTSBURY</i>	PROJECT NO.
	<i>TH 3806</i>
Bridge Sheet No.	Sheet <i>7</i> of <i>19</i>



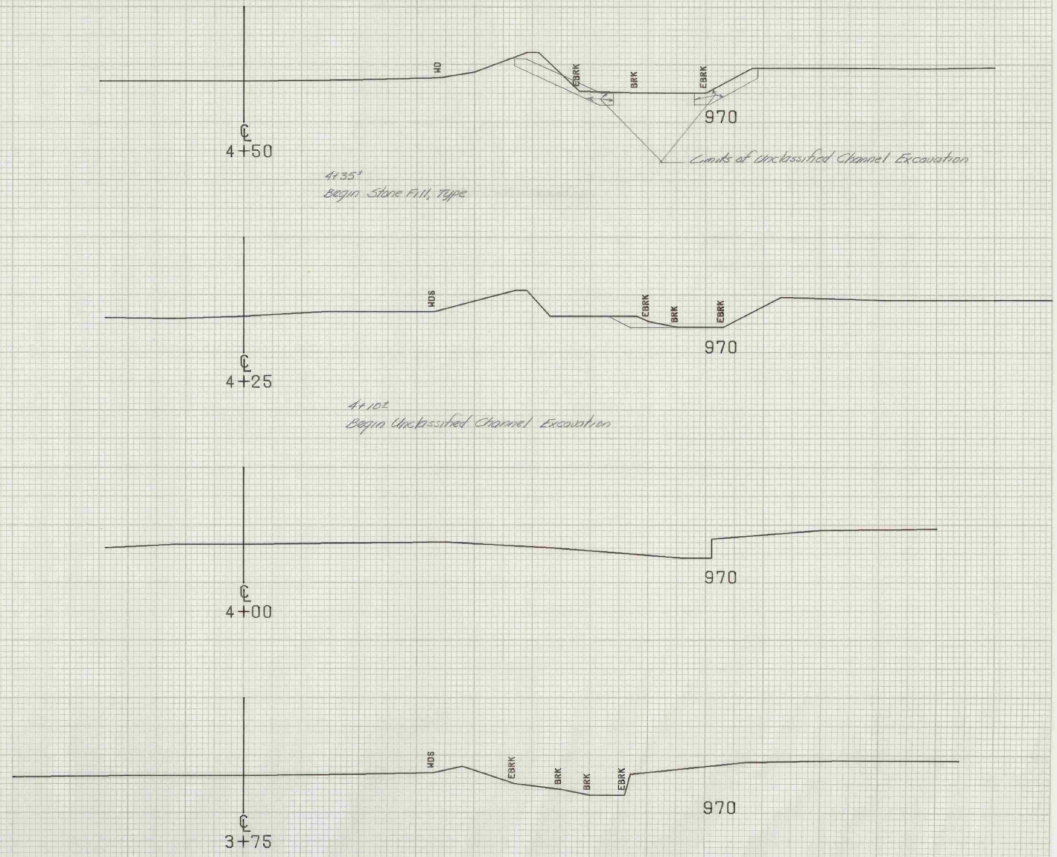
SCALE 1" = 10 FEET

FROM STA. 5+75	TO STA. 5+75
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO.	FH3906
SURVEYED BY	FANTONI
SHEET 17 OF 19	SHEETS
	PLOTTED 10/24/77
	10/77



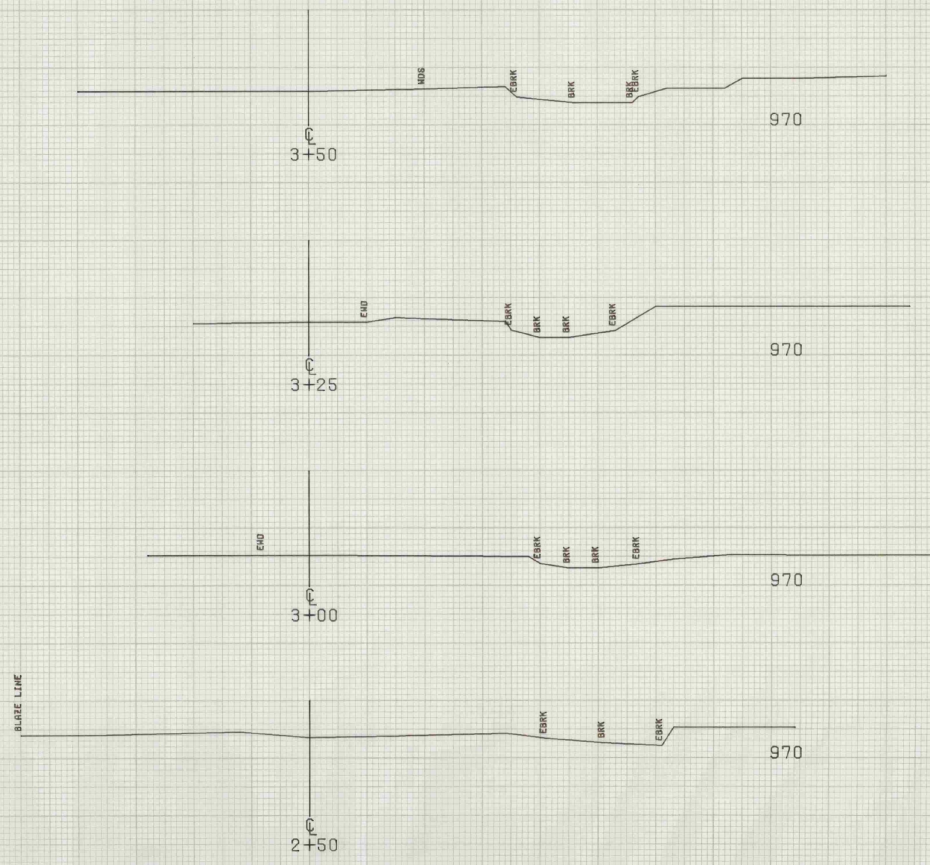
FROM STA. 4-75 TO STA. 5+50
 PROJECT NAME SHAFTSBURY CHANNEL LINE
 NO. TH3808 PLOTTED 10/24/77
 SURVEYED BY FANTONI 10/77
 SHEET 18 OF 19 SHEETS

SCALE 1" = 10 FEET



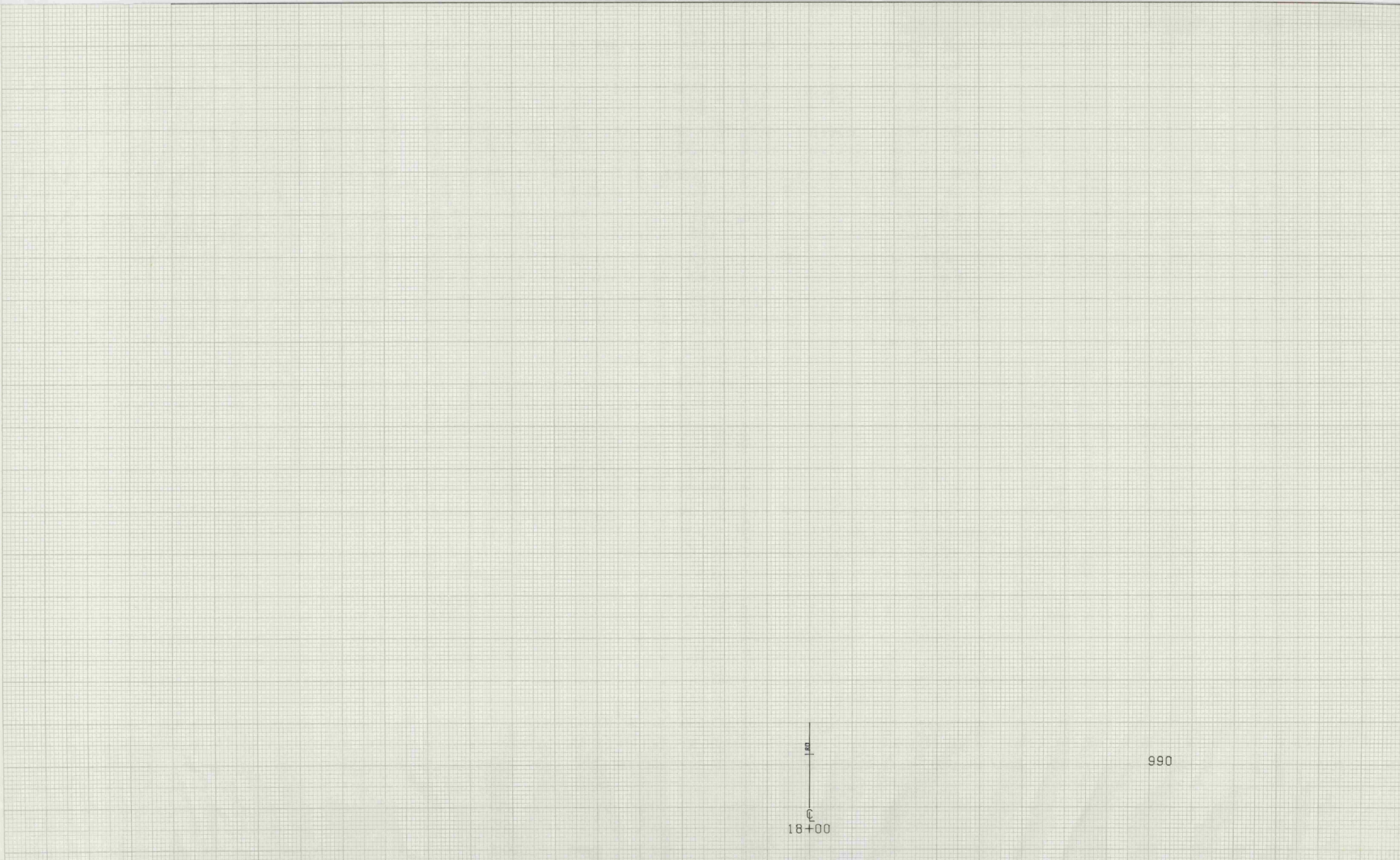
FROM STA. 3+75	TO STA. 4+50
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO. TH3906	PLOTTED 10/24/77
SURVEYED BY FANTONI	10/77
SHEET 17 OF 19 SHEETS	

SCALE 1" = 10 FEET



FROM STA. 2+50	TO STA. 3+50
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO.	THIS SHEET
SURVEYED BY	FANTONI
SHEET 10 OF 19	PLOTTED 10/24/77
	SHEETS

SCALE 1" = 10 FEET

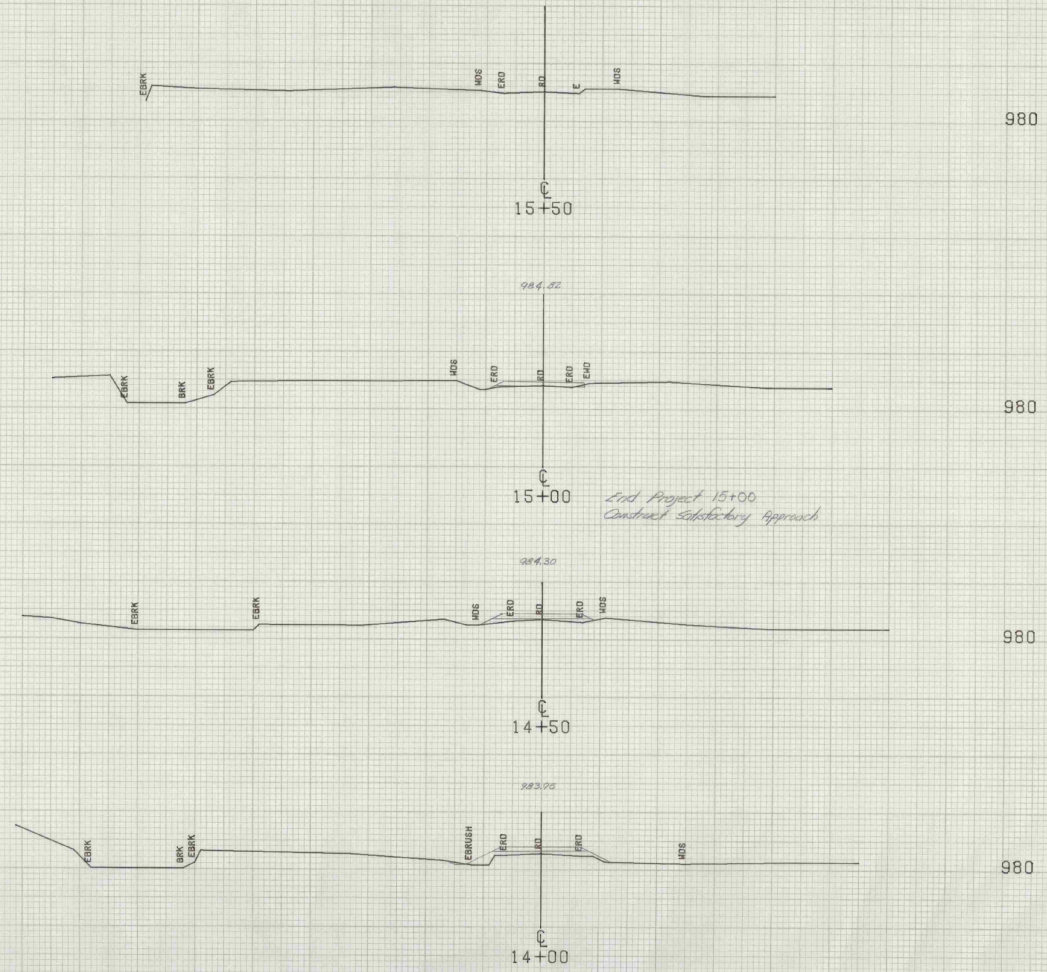


18+00

990

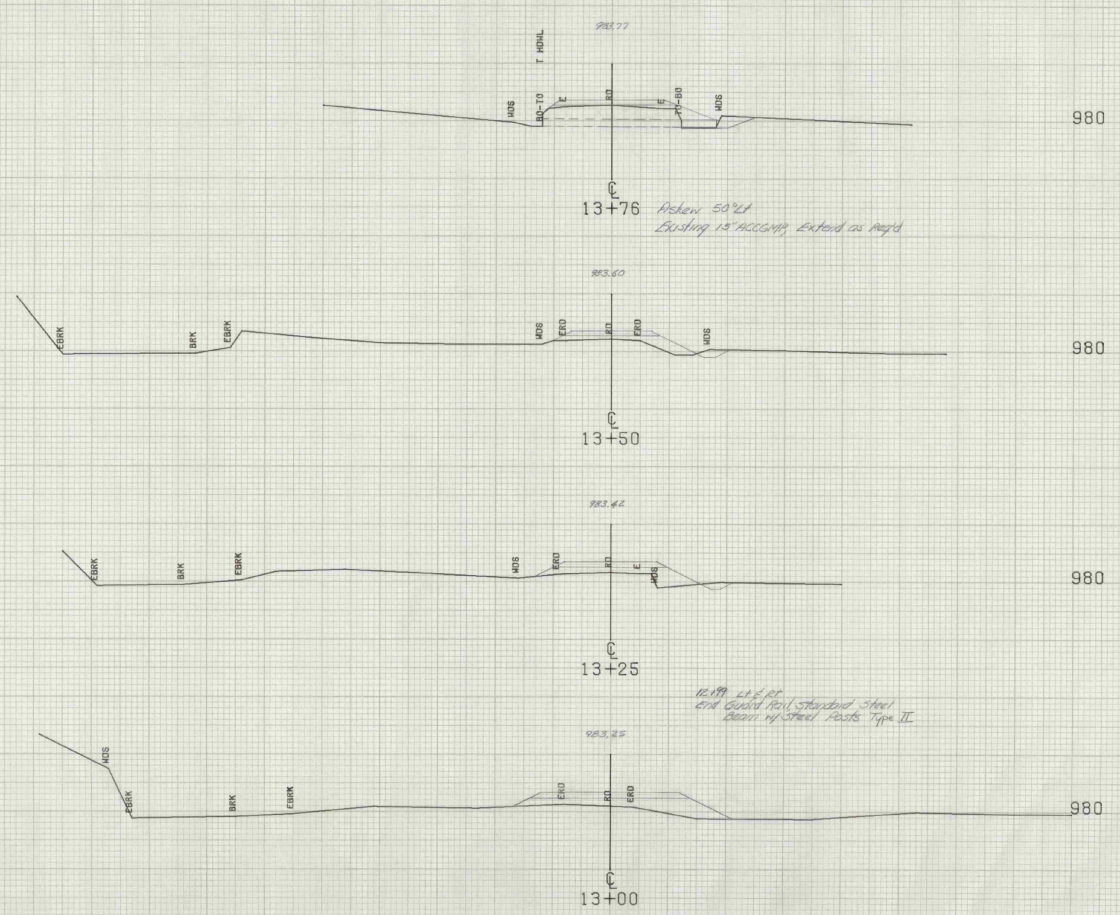
SCALE 1" = 10 FEET

FROM STA. 18+00	TO STA. 18+00
PROJECT NAME	SHAFTSBURY
NO.	TH3008
SURVEYED BY	FANTONI
SHEET 12 OF 19 SHEETS	PLOTTED 10/24/77



FROM STA. 14+00 TO STA. 15+50
 PROJECT NAME SHAFTSBURY
 NO. TH3806 PLOTTED 10/24/77
 SURVEYED BY FANTONI
 SHEET 13 OF 19 SHEETS

SCALE 1" = 10 FEET



13+76 *Reken 50' x 4'*
Existing 15' HCGM, extend on angle

13+50

13+25

12.89' L x 1.4'
End Bridge Reiling, Standard Steel Beam
Beam w/ Steel Posts Type II

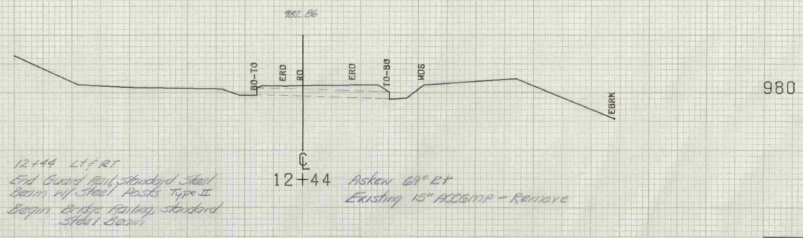
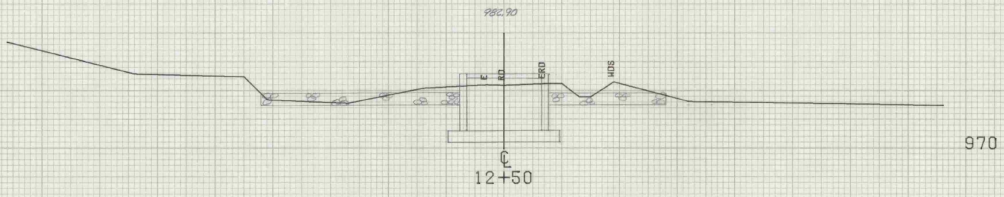
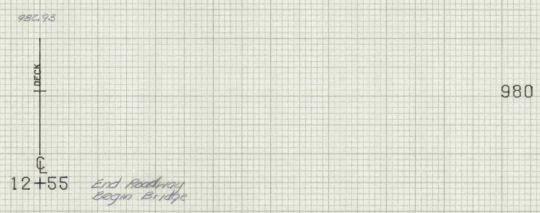
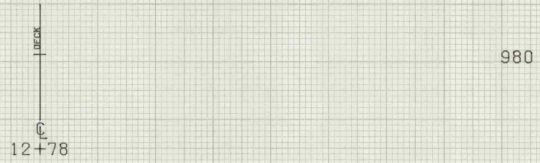
13+00

12.190' L x 1.4'
End Bridge Reiling, Standard Steel Beam
Beam w/ Steel Posts Type II

FROM STA. 13+00	TO STA. 13+76
PROJECT NAME	SHAFTSBURY
NO.	TH3806
SURVEYED BY	FANTONI
SHEET 12 OF 19	SHEETS
	PLOTTED 10/24/77
	10/77

SCALE 1" = 10 FEET

12+79 End Bridge
Resume Roadway

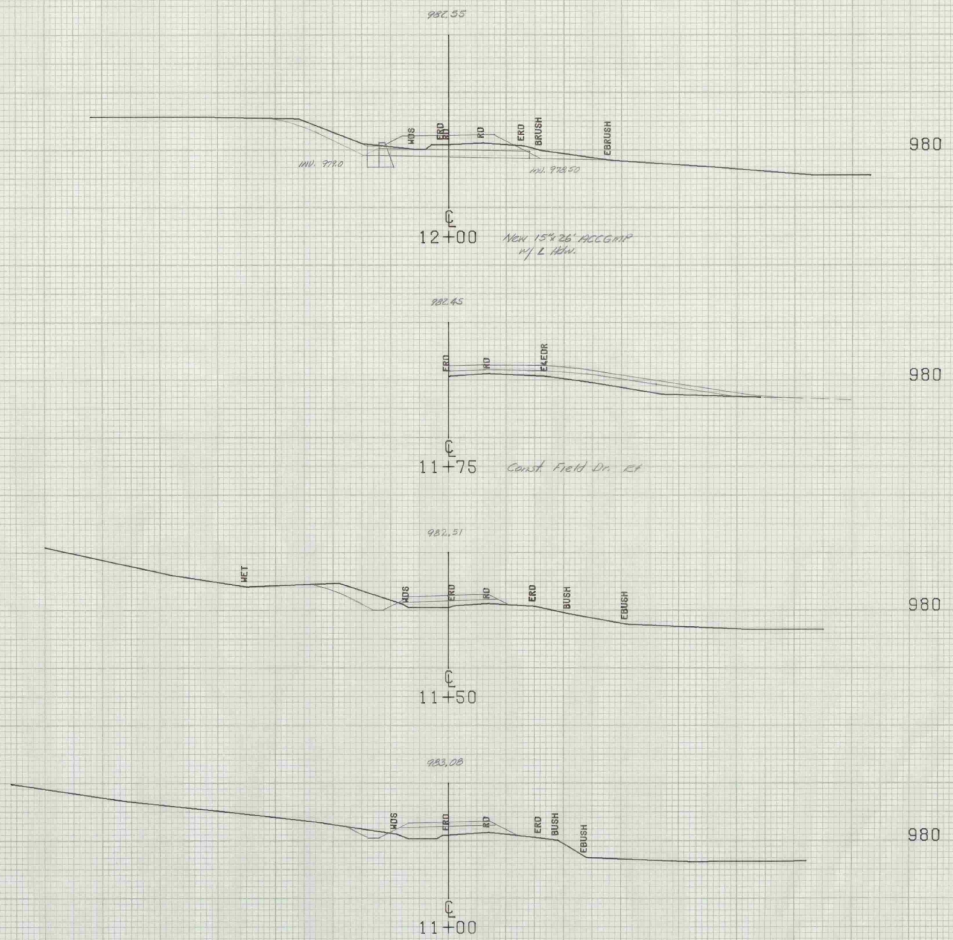


12+44 L.F. RT
End Guard Rail, Standard Steel
Beam w/ Steel Posts Type II
Begin Bridge railing, Standard
Steel Beams

12+35 L.F. RT
Begin Guard Rail, Standard Steel
Beam w/ Steel Posts Type II

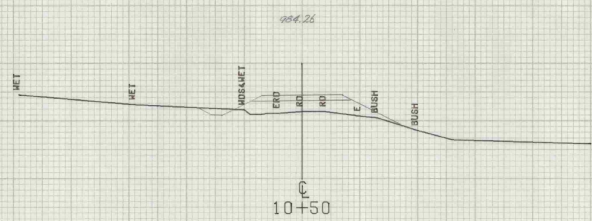
FROM STA. 12+44	TO STA. 12+78
PROJECT NAME	SHAFTSBURY
NO.	TH3906
SURVEYED BY	FANTONI
SHEET 11 OF 19 SHEETS	PLOTTED 10/24/77

SCALE 1" = 10 FEET

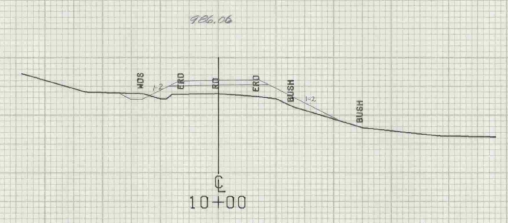


SCALE 1" = 10' FEET

FROM STA. 11+00	TO STA. 12+00
PROJECT NAME	SHAFTSBURY
NO.	TH3808
SURVEYED BY	FANTONI
SHEET 10 OF 19 SHEETS	PLOTTED 10/24/77
	10/77



970



980



980



990

*Begin Project 9+50
Central Shaftsbury Approach*

FROM STA. 9+00	TO STA. 10+60
PROJECT NAME	SHAFTSBURY
NO.	TH3906
SURVEYED BY	FANTONI
SHEET 7 OF 9 SHEETS	PLOTTED 10/24/77
	10/77

SCALE 1" = 10 FEET

Bridge

SHAFTSBURY TH 3806

TH 9 - BR. 19

1979

NEW RC SLAB BRIDGE

FORCE ACCOUNT

1979