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- 3. Graded by Sheet
- 4. Subgrade and Grade Sheet
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- 6. C.C.P. Detail Sheet
- 7. Plans and Profile Sheet
- 8. Blank
- 9. Blank

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24.	SCB-06-71	Detail A, B & E	8/18/72
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STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
**PROPOSED IMPROVEMENT**  
FEDERAL AID SECONDARY

**TOWN OF WOODSTOCK**  
COUNTY OF WINDSOR  
STATE AID HIGHWAY NO. 1  
WOODSTOCK - POMFRET ROAD

BEGINNING AT A POINT ON S.A. 1.0.241 MILE NORTHERLY OF VERMONT ROUTE 12 AND EXTENDING NORTHERLY 0.180 MILE

LENGTH OF ROADWAY	812 FEET*	0.154 MILES
LENGTH OF BRIDGE NO. 1	84 FEET*	0.016 MILES
LENGTH OF BRIDGE NO. 2	84 FEET*	0.016 MILES
LENGTH OF PROJECT	950 FEET*	0.180 MILES

1970 ADT =	1140
1962 ADT =	2040
1992 DHV =	310
D =	60
T =	5
V =	40

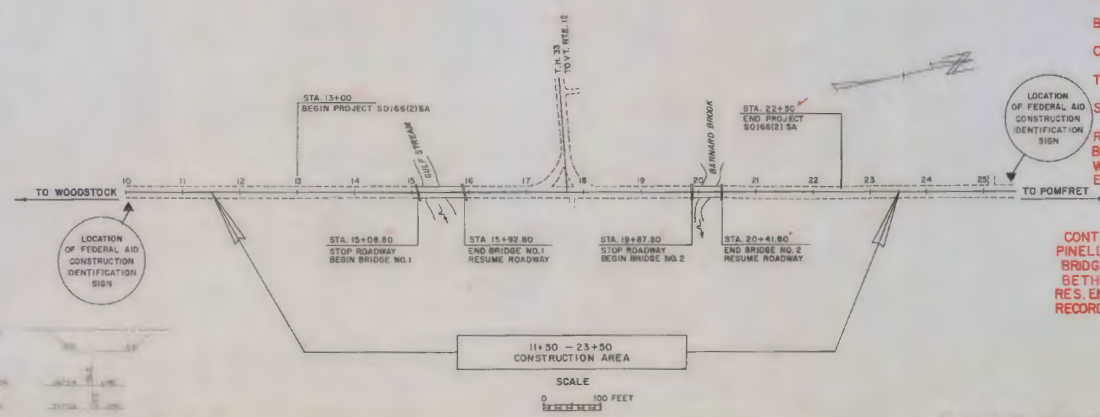


SCALE 0 0.5 MILE  
**WOODSTOCK S 0166(2) SA**  
**RECORD PLANS**  
**MATERIALS**

- SUBBASE OF GRAVEL—HAROLD HUDSON PIT—HARTFORD, VT.
- BITUMINOUS CONCRETE PAVEMENT—L.M. PIKE & SON, INC.—LACONIA, N.H.
- BRIDGE, GUARD RAIL & EROSION CONTROL ITEMS & BOUNDARY MARKERS—GRISWOLD FENCE CO., INC.—WILLISTON, VT.
- CONCRETE CLASS B & SILICONE CONCRETE—MILLER READY MIX CONCRETE—W. LEBANON, N.H.
- TREATED TIMBER PILING—PILING SUPPLY & EQUIPMENT CO., INC.—ALBANY, N.Y.
- STRUCTURAL STEEL & SHEAR CONNECTORS—BANCROFT & MARTIN, INC.—SO. PORTLAND, ME.
- REINFORCING STEEL—PIONEER VALLEY STEEL CO.—GREENFIELD, VT.
- BRIDGE PAINT—C.E. BRADLEY LABS., INC.—BRATTLEBORO, VT.
- WATER REPELLENT—P.P.G. INDUSTRIES—PITTSBURGH, PA.
- EPOXY BONDING COMPOUND—DURAL INTERNATIONAL CORP.—DEER PARK, N.Y.

CONTRACTOR  
PINELLO ENGINEERING  
BRIDGE CONSTRUCTION CO., INC.  
BETHEL, VT.  
RES. ENG.—W.R. STODDARD.  
RECORD PLANS—A.G. SPIDLE.

CONTRACT  
DATED—AUGUST 14, 1972.  
STARTED—AUGUST 21, 1972.  
COMPLETED—SEPTEMBER 20, 1973.  
ACCEPTED—SEPTEMBER 20, 1973.



**BENCH MARKS BASED ON ASSUMED ELEVATIONS**

CONVENTIONAL SIGNS

POST OF ACCESS	1
LIMIT OF ACCESS	2
COUNTY LINE	3
TOWN LINE	4
STATE LINE	5
ROAD ELEVATION	6
GRADE ELEVATION	7
TRAFFIC SIGN	8
WALKWAY	9
INTERSECTION	10
CURVE DATA	11
POSITION OF BRIDGE	12
STOP ON SIGN	13
SIGN OF LIGHT	14
ROAD WORKER	15
LENGTH OF BRIDGE	16
EXTERNAL BRIDGE	17
POST OF APPROXIMATION	18
POST OF BRIDGE	19
POST OF SIGN	20
POST OF APPROXIMATION	21
POST OF BRIDGE	22
POST OF SIGN	23
POST OF APPROXIMATION	24
POST OF BRIDGE	25
POST OF SIGN	26

WOODSTOCK S 0166(2) SA  
 CONTRACTOR—PINELLO ENGINEERING  
 RES. ENG.—W.R. STODDARD  
 RECORD PLANS—A.G. SPIDLE  
 COMPLETED—SEPTEMBER 20, 1973.

APPROVED: *R.N. Carroll*  
DATE: 8/21/73

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION		
APPROVED:	DATE:	
PROJECT:	NO.:	0166(2) SA
SHEET:	OF:	48 SHEETS

# TYPICAL SECTIONS

2-1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 (1" WEARING COURSE OVER 1-1/2" BINDING COURSE)

SHOULDERS: 1" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 (WEARING COURSE)

18" SUB-BASE OF GRAVEL, ITEM 301.15

CONSTRUCTED AS DESIGNED

## GENERAL NOTES

SEED, ITEM 651.10

QTY	AREA	NAME	PLANT	SEEDING
4.87	25	INDIAN RICE PERSIC	55	85
25.00	15	ALFALFA	90	85
8.33	5	RED TOP	92	85
16.67	10	PERENNIAL RYE GRASS	90	90
9.33	5	BIRDFOOT TREFOIL	90	80
100.00	60	(VAR. MIXTURE)		

THE SEED MIXTURE SHALL NOT HAVE A SEED CONTENT EXCEEDING 60% BY WEIGHT AND SHALL BE FREE FROM ALL NOxious WEED SEEDS.

MARKER POSTS, WHICH ARE STEEL AS SPECIFIED TO BE PLACED AS DIRECTED BY THE ENGINEER.

FERTILIZER, ITEM 651.15 FORMULA 10-20-0 TO BE USED WITH SEED. ITEM 65.10 APPLIES AT THE RATE OF 500 LBS./ACRE.

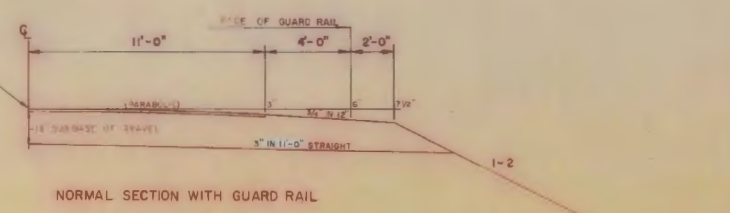
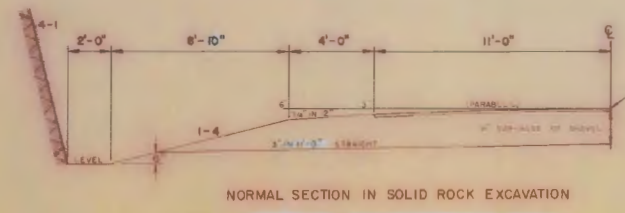
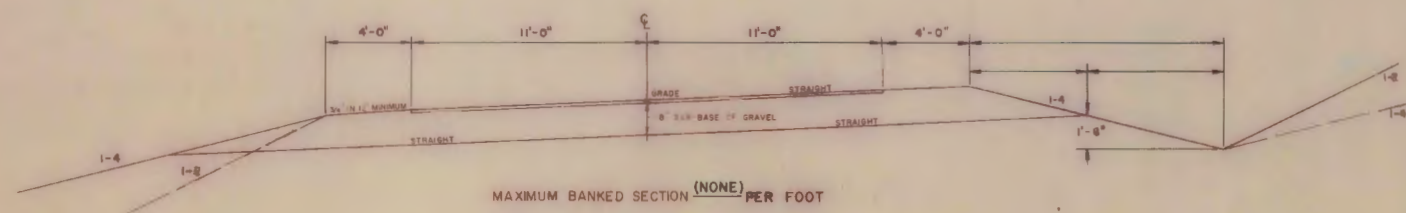
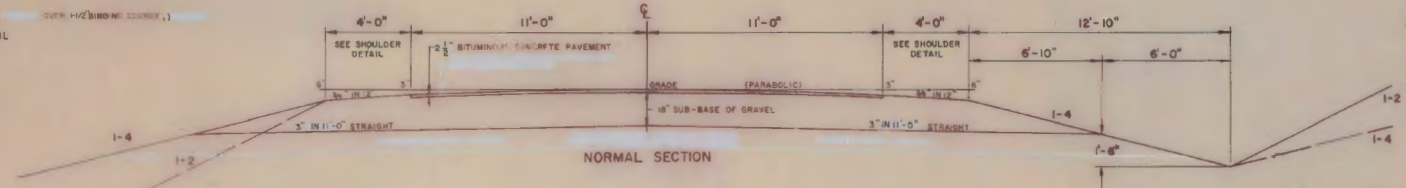
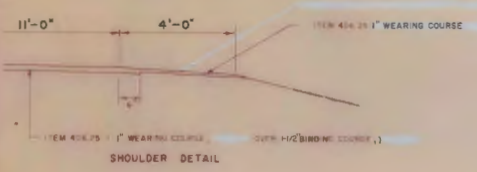
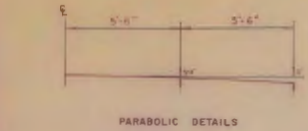
AGRICULTURAL LIMESTONE, ITEM 651.20 TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH, ITEM 651.25 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE.

TOPSOIL, ITEM 651.10 TO BE USED WITH SEED. ITEM 651.10 IS RESERVATION. APPLIES AS DIRECTED BY THE ENGINEER.

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING.

ALLOWABLE TOLERANCES  
SURFACE COURSE ± 1/4"  
SUB-BASE ± 1/2"  
CONTROLLED MATERIAL ± 1"

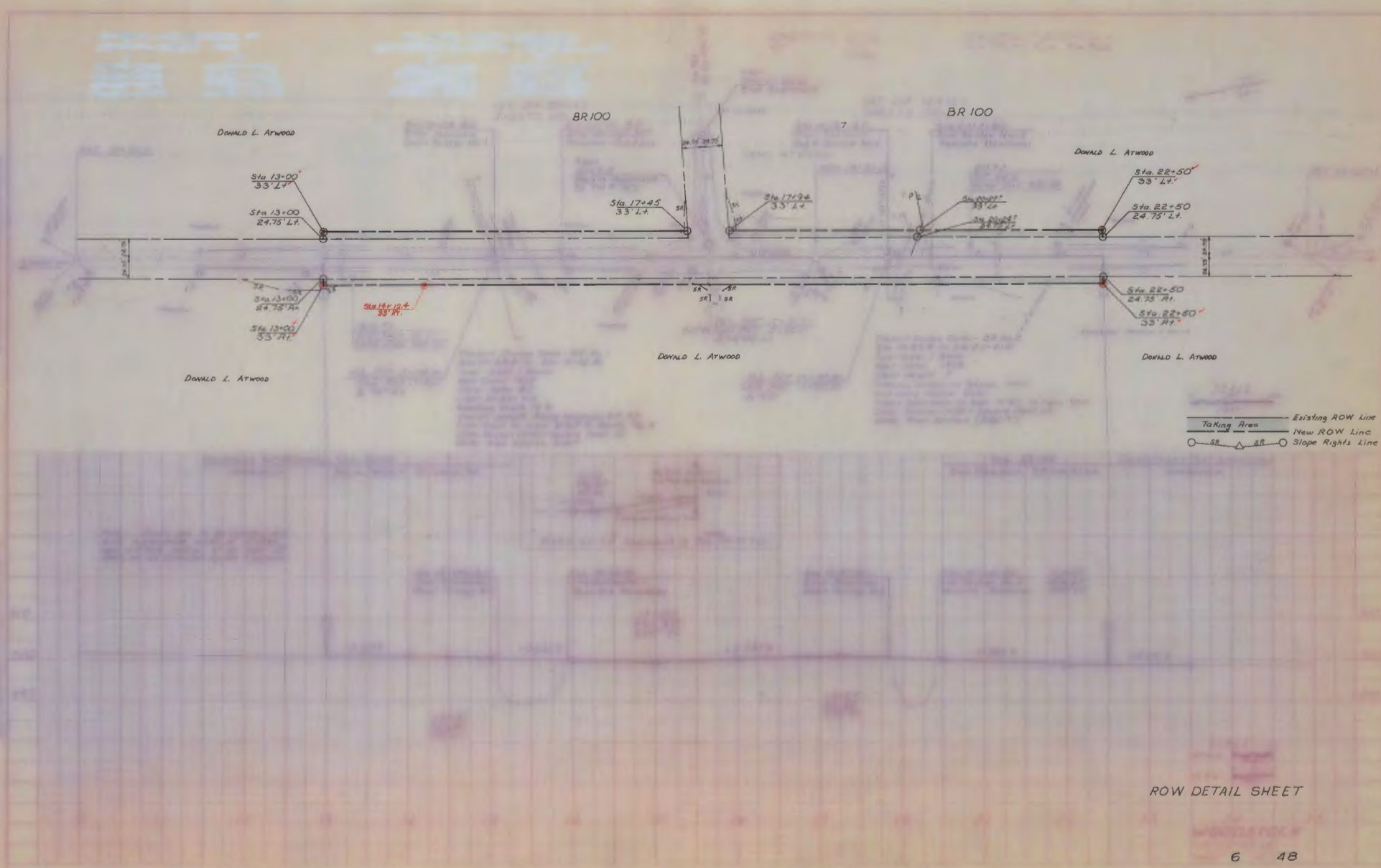


TOWN OF WOODSTOCK

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

DRAWN BY: [Signature] TRACED BY: [Signature]

PROJ 5 N<sup>o</sup> 0166(2)SA SHEET 2 OF 4B



ROW DETAIL SHEET

**REMOVAL AND DISPOSAL OF EXISTING GUARD RAIL**

Lt	Rt
13+80~15+04	13+80~15+12
15+38~16+62	15+94~16+28
19+52~19+88	19+62~19+88
20+42~20+88	20+42~20+78

**GUARD RAIL, HEAVY DUTY STEEL BEAM w/STEEL POSTS, TYPE II (12'6" Spacing)**

Lt	Rt
14+48~15+04	14+23.7~15+13.0
16+08.6~16+22.8	15+97.5~16+48.7
18+36.8~19+27.8	18+32.8~19+27.8
20+41.8~21+36.7	20+41.8~20+92.8

SEE BR SERIES SHEETS NO. BR.100

**CONSTRUCT DRIVE**

Rt 17+75

**CONSTRUCT APPROACH**

TH #33 17+71.7 Lt.

**BRIDGE RAILING, HEAVY DUTY STEEL BEAM**

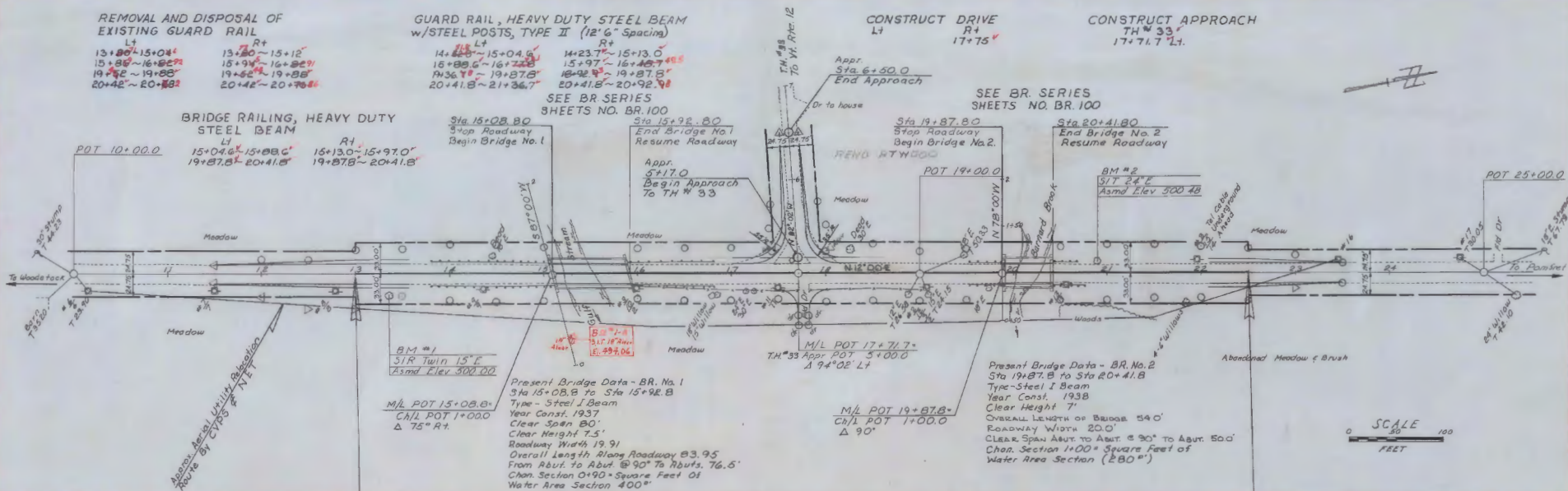
Lt	Rt
15+04.6~15+08.6	15+13.0~15+97.0
19+27.8~20+41.8	19+27.8~20+41.8

Sta 15+08.80 Stop Roadway Begin Bridge No. 1

Sta 15+92.80 End Bridge No. 1 Resume Roadway

Sta 19+87.80 Stop Roadway Begin Bridge No. 2

Sta 20+41.80 End Bridge No. 2 Resume Roadway



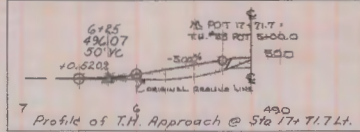
BM #1  
SIR Twin 15' E  
Asm'd Elev. 302.00

Present Bridge Data - BR. No. 1  
Sta 15+08.8 to Sta 15+92.8  
Type - Steel I Beam  
Year Const. 1937  
Clear Span 80'  
Clear Height 7.5'  
Roadway Width 19.91  
Overall Length Along Roadway 83.95  
From Abut. to Abut. @ 90° To Abuts. 76.5'  
Chan. Section @ 90° Square Feet of Water Area Section 400'

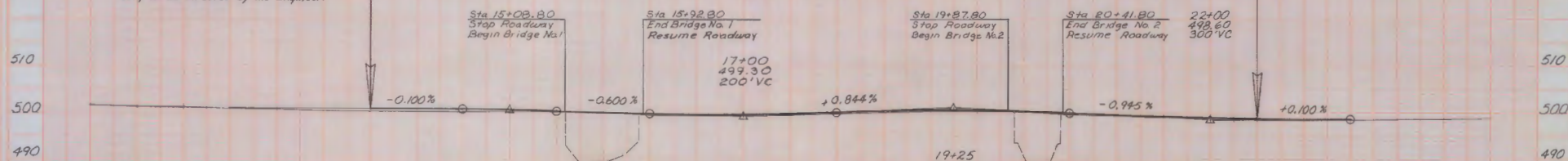
Present Bridge Data - BR. No. 2  
Sta 19+87.8 to Sta 20+41.8  
Type - Steel I Beam  
Year Const. 1938  
Clear Height 7'  
Overall Length of Bridge 54.0'  
Roadway Width 20.0'  
Clear Span Abut. to Abut. @ 90° to Abut. 50.0'  
Chan. Section @ 90° Square Feet of Water Area Section (280')

CONSTRUCT SATISFACTORY APPROACH STA. 13+00 BEGIN PROJECT SO166(2) SA

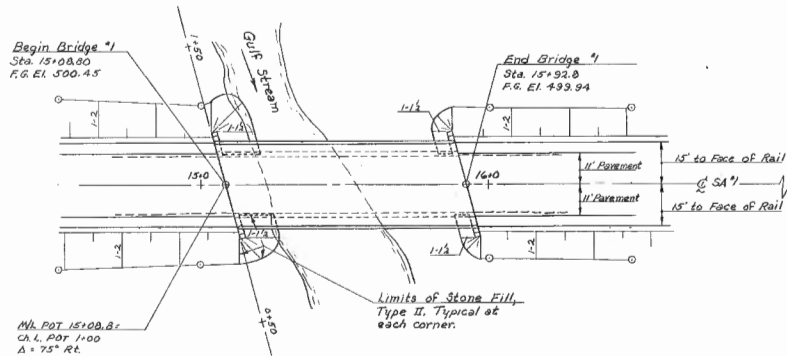
STA. 22+50 END PROJECT SO166(2) SA CONSTRUCT SATISFACTORY APPROACH



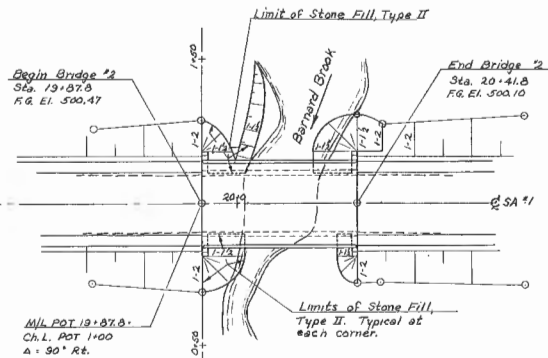
Note: Drives are to be constructed with a minimum width of 12 feet and a flare radius of at least 20 feet, or as directed by the Engineer.



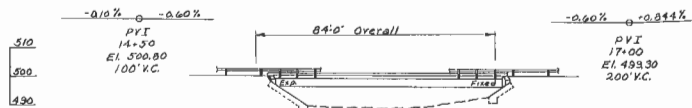
SCALE  
HORIZ. 1" = 50'  
VERT. 1" = 10'



PLAN - BRIDGE No. 1  
SCALE: 1" = 20'



PLAN - BRIDGE No. 2  
SCALE: 1" = 20'



ELEVATION - BRIDGE No. 1  
SCALE: 1" = 20'



ELEVATION - BRIDGE No. 2  
SCALE: 1" = 20'

HYDRAULIC DATA

	Bridge No. 1	Bridge No. 2
Drainage Area	17.0 sq. mi.	13.3 sq. mi.
Design Discharge (Q <sub>25</sub> )	2300 cfs	2400 cfs
Check Discharge	2000 cfs	2000 cfs
Ordinary Highwater Elevation	492.0	492.0
Design Highwater Elevation	495.4	495.4
Check Highwater Elevation	495.0	495.0
Velocity in Constriction	7 Fps	10 Fps

STANDARD DRAWINGS

G-1	4-10-72
SCB-DI-71	1-24-72 R
SCB-D6-71, Det. A, B, & E	5-15-72
SCB-D8-71, Det. A & B	12-14-71
SCB-D9-71, Det. A	12-14-71

GENERAL NOTES

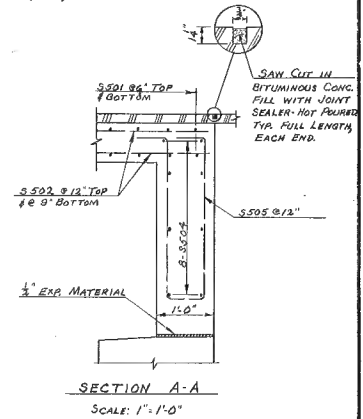
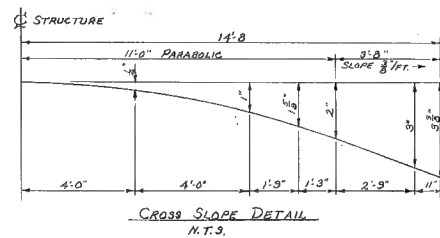
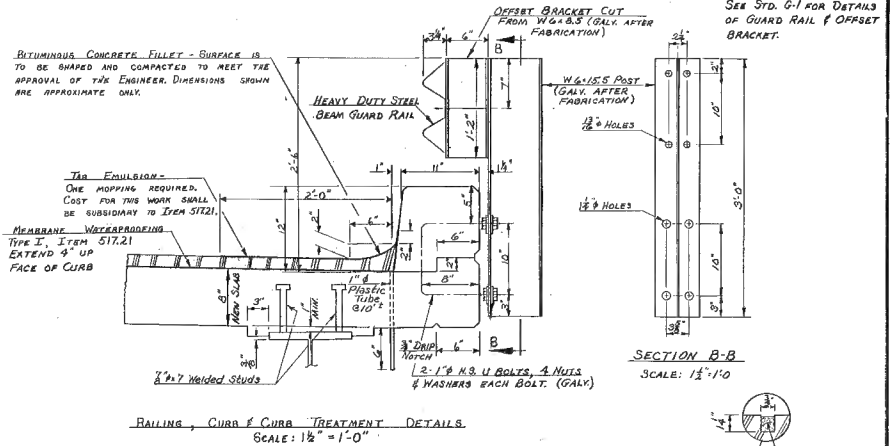
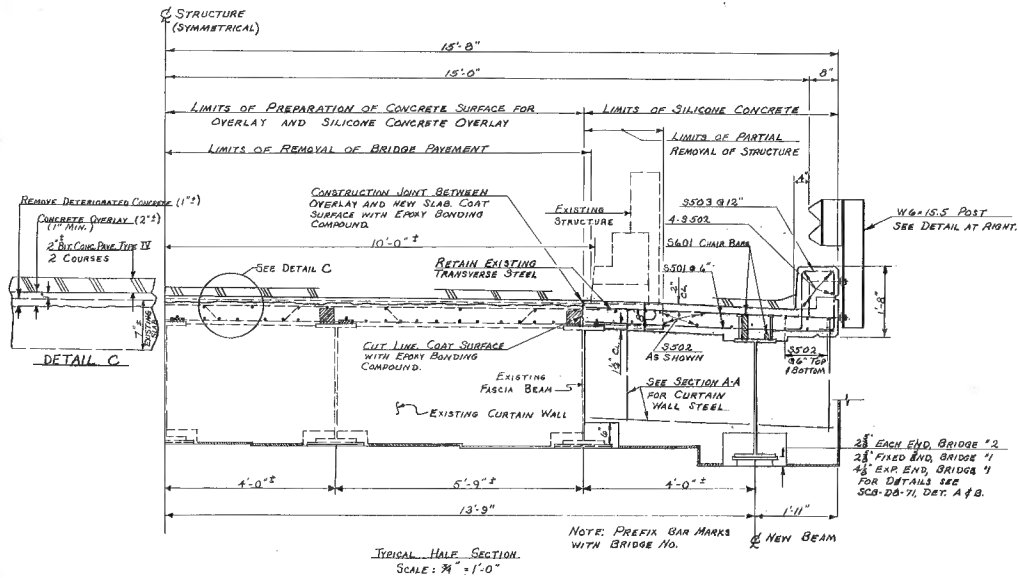
- Elevation Datum is based on an assumed elevation of 500.00 at B.M. #1.
- The Engineer shall adjust the finish grade profile as necessary to maintain a minimum elevation of 0.25' above the concrete surface of the existing deck.
- All superstructure concrete shall be Silcrete Concrete Overlay or Silcrete Concrete. All abutment concrete shall be Concrete Class B.
- Treated Timber Piling shall be driven to a bearing capacity of 22 Tons per pile.
- See Std. SCB-DI-71 For additional General Notes.
- One-way traffic with a minimum clear roadway width of 14' shall be maintained on each structure. All costs of traffic maintenance shall be included in Maintenance of Traffic for Bridge Projects. See Special Provisions for details.
- All new structural steel shall be painted in accordance with Spec. 573 with the cost to be included in the unit price bid for Item 506.00.

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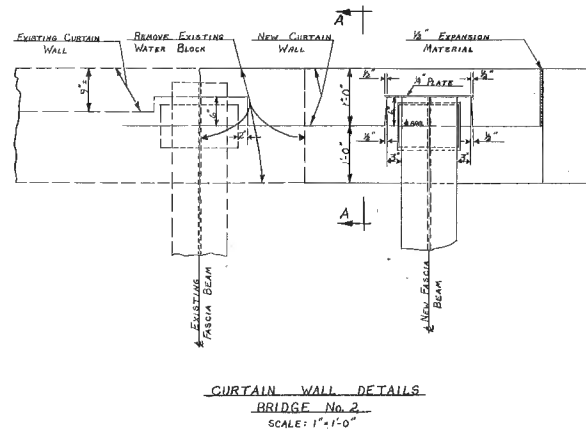
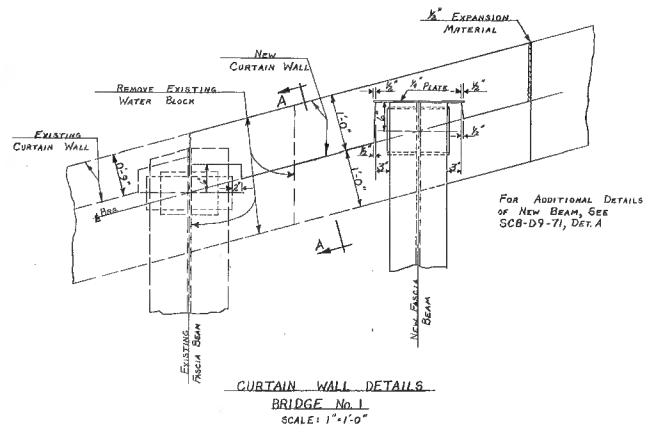
BR. 100	Bridge #1 & 2 - Plan, Elevation & General Notes
101	Bridge #1 & 2 - Quantity Sheet
102	Bridge #1 & 2 - Typical Section & Details
103	Bridge #1 - Superstructure Details
104	Bridge #2 - Superstructure Details
105	Bridge #1 - Abutment Details
106	Bridge #2 - Abutment Details
107	Bridge #1 & 2 - Reinforcing Schedule
108-110	Bridge #1 - Channel Sections
111-113	Bridge #2 - Channel Sections

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

TOWN OF <b>WOODSTOCK</b>	Bridge No. <b>1 &amp; 2</b>
HIGHWAY NO. <b>S.A. #1</b>	Log Sta.
	Surv. Sta. <b>13+51.820+15</b>
<b>S.A. #1 OVER GULF STREAM &amp; BARNARD BROOK</b>	
<b>BRIDGE #1 &amp; 2 - PLAN, ELEVATION &amp; GENERAL NOTES</b>	
Designed by <b>W. TRIPP</b>	Drawn by <b>W. TRIPP</b>
Checked by <b>J. COURNA</b>	Bridge Design Supervisor
date <b>5-72</b>	<b>J. WOOD</b> date
PROJECT NO.	PROJECT NO.
<b>WOODSTOCK</b>	<b>5-0166(2)SA</b>
Bridge Sheet No. <b>BR/100</b>	Sheet <b>9</b> of <b>18</b>

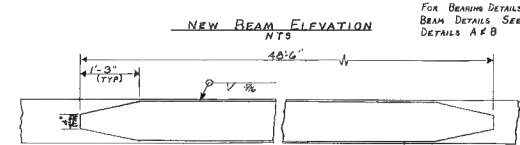
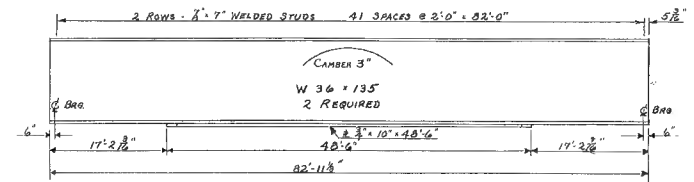
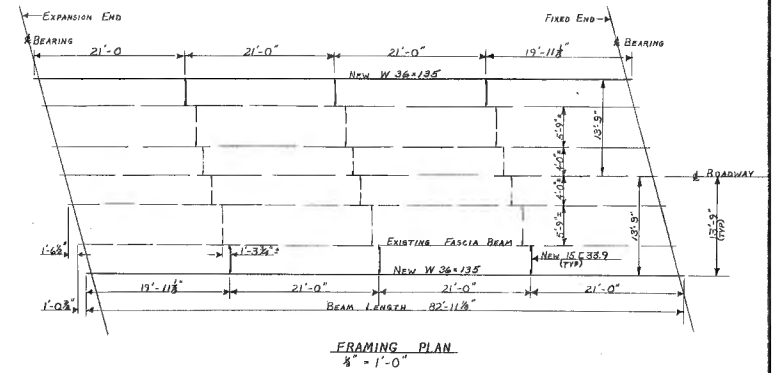
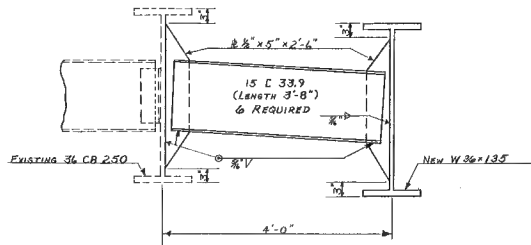
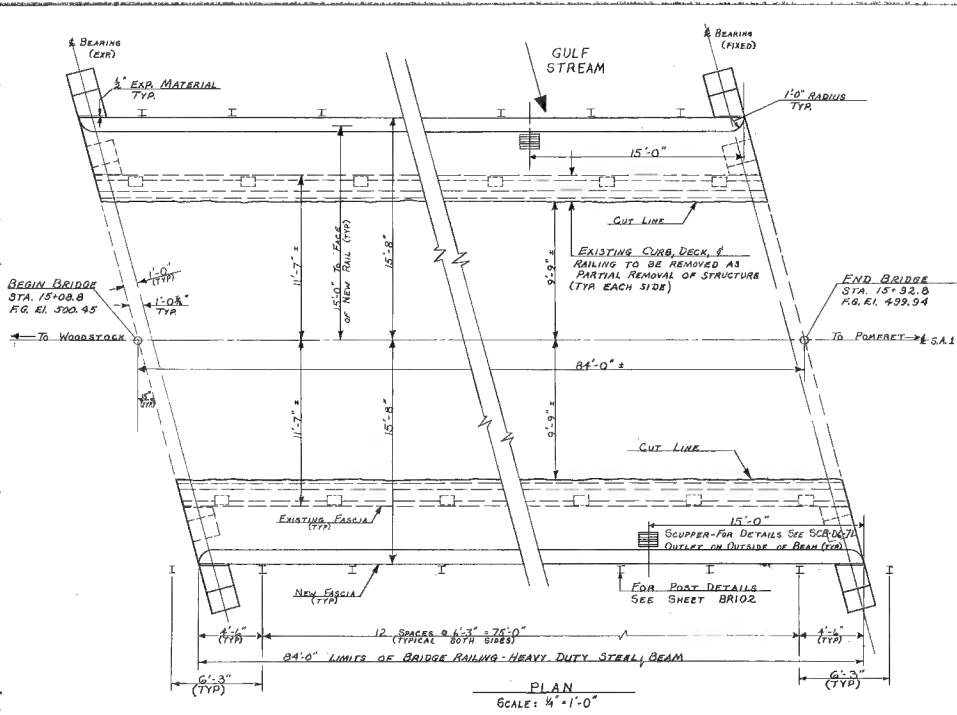


NOTES  
1. SEE BA. 100 FOR GENERAL NOTES



**STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS**

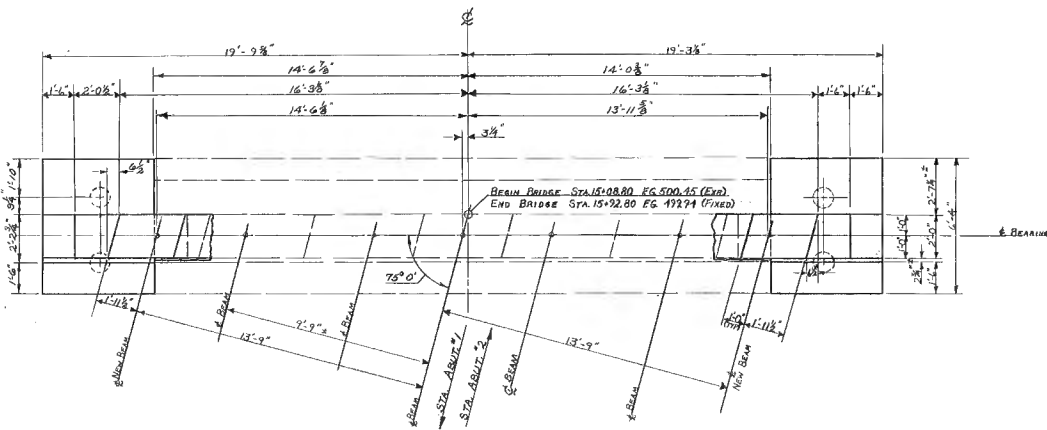
TOWN OF	Woodstock	Bridge No.	1 & 2
HIGHWAY NO.	S.A. #1	Log Sta.	
		Surv. No.	15451/12015
S.A. #1 OVER GULF STREAM & BARNARD BROOK			
BRIDGE #1 & 2 - TYPICAL SECTION AND DETAILS			
Designed by	J. COUTURE	Drawn by	L. MASON
Checked by	W. TRIPP	Bridge Design Supervisor	W. WOOD
PROJECT	Woodstock	PROJECT NO.	S-0166 (2) S.A.
		Bridge Sheet No.	BRI102
		Sheet	11 of 48



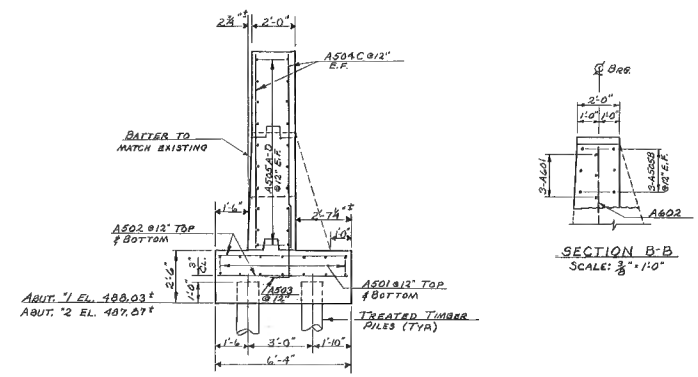
FOR BEARING DETAILS AND END OF BEAM DETAILS SEE SCB-DG-71, DETAILS A & B

SEE BR. 100 FOR GENERAL NOTES

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
TOWN OF WOODSTOCK	Bridge No. 1
HIGHWAY NO. S.A. # 1	Log Sta. 15+51
S.A. # 1 OVER GULF STREAM	
BRIDGE NO. 1 SUPERSTRUCTURE DETAILS	
Designed by J. GOUTURE	Drawn by L. MASON
Checked by W. TRUDE	Bridge Design Supervisor J. WOOD
PROJECT WOODSTOCK	PROJECT NO. S-0166 (2) S.A.
Bridge Sheet No. BR103	Sheet 12 of 48

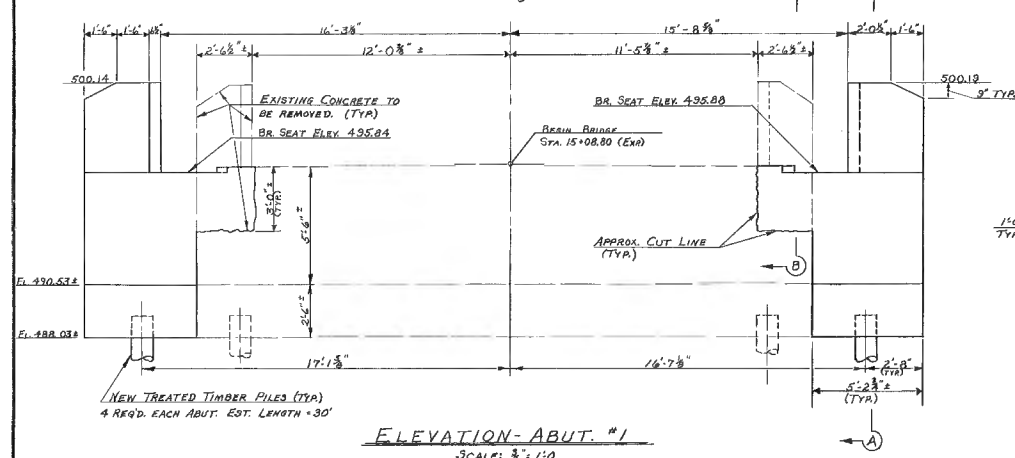


**PLAN-ABUT #1 & 2**  
SCALE:  $\frac{3}{8}$ " = 1'-0"

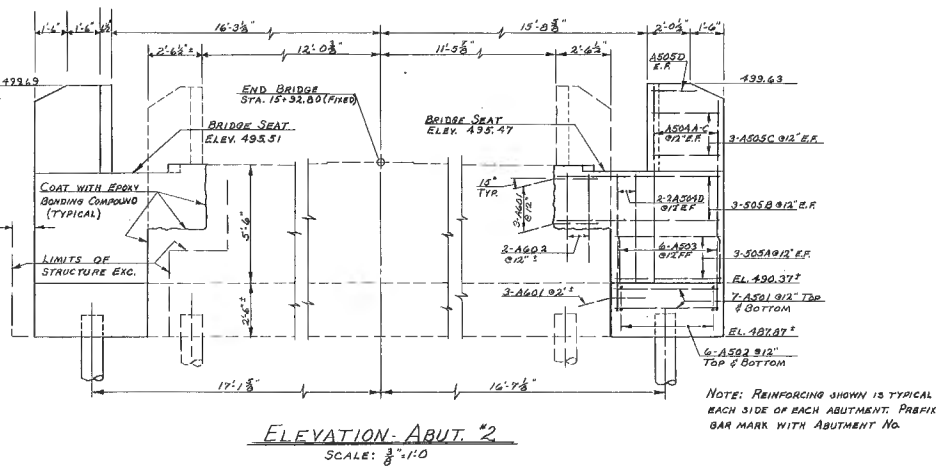


**SECTION A-A**  
SCALE:  $\frac{3}{8}$ " = 1'-0"

**SECTION B-B**  
SCALE:  $\frac{3}{8}$ " = 1'-0"



**ELEVATION-ABUT #1**  
SCALE:  $\frac{3}{8}$ " = 1'-0"



**ELEVATION-ABUT #2**  
SCALE:  $\frac{3}{8}$ " = 1'-0"

NOTE: REINFORCING SHOWN IS TYPICAL EACH SIDE OF EACH ABUTMENT. PREFIX BAR MARK WITH ABUTMENT NO.

SEE BR. 106 FOR EXCAVATION AND BACKFILL DETAILS AND ABUTMENT NOTES.

<b>STATE OF VERMONT DEPARTMENT OF HIGHWAYS</b>	
TOWN OF WOODSTOCK	Bridge No. 1
HIGHWAY NO. SA #1	Log Sta.
	Surv. Sta. 15+51
SA #1 OVER GULF STREAM	
<b>BRIDGE NO. 1 ABUTMENT DETAILS</b>	
Designed by J. COUTURE	Drawn by L. MASON
Checked by W. TRAPP	Bridge Design Supervisor
Date 5-72	J. WOOD Date
PROJECT WOODSTOCK	PROJECT NO. S-0166(2) S.A.
Bridge Sheet No. BR105	Sheet 14 of 48