

INDEX OF SHEETS

1. TITLE SHEET	34. A-23	6-17-82
2. QUANTITY SHEET	35. D-2	R 12-16-72
3. PLAN & PROFILE	36. E-3	R 12-15-78
4. TYPICAL SECTIONS	37. E-6	R 4-1-80
5. R.O.W. BARR & PROFILE SHEETS	38. E-7	R 9-5-78
6. R.O.W. DETAIL SHEETS	39. E-7a	R 6-8-77
7. PRELIMINARY INFORMATION SHEET	40. BLANK	
8. BORINGS	41. BLANK	
9. SUPERSTRUCTURE DETAILS	42. E-29	R 1-23-78
10. METAL PLATE FACING & SCUPPER DETAILS	43. G-1	R 12-16-80
11. ABUTMENT DETAILS	44. G-1d	
12. PIER DETAILS	45. G-11	R 5-29-79
13. REINFORCING STEEL SCHEDULE	46. SB-R6-B2	
14. ROADWAY & CHANNEL SECTIONS	47. SCB-D1-75	R 9-14-81
	48. SCB-D4-76	
	49. SCB-D6-78	R 1-3-79
	50. SCB-D7-71	R 12-15-76
	51. SCB-D9-71	

GENERAL NOTES

- ALL ROADWAY AND CHANNEL CUT AND FILL AREAS SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.
- DURING CONSTRUCTION THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PREVENT POLLUTION INCLUDING THE DISCHARGE OF PAN CONCRETE OR DEBRIS INTO THE MAD RIVER AS DIRECTED BY VERMONT STANDARD SPECIFICATION SECTION 104.11
- THE EXISTING SUPERSTRUCTURE SHALL BE REMOVED FROM THE PROJECT WHEN NO LONGER NEEDED AND WILL BECOME THE PROPERTY OF THE CONTRACTOR.
- TOWN HIGHWAY 15 SHALL REMAIN OPEN TO TRAFFIC. THE EXISTING STRUCTURE AND APPROACHES SHALL BE MAINTAINED AS LONG AS DEEMED NECESSARY. PAYMENT SHALL BE MADE UNDER ITEM 637.10, MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS.
- TEN CUBIC YARDS I OF STONE FILL TYPE II, ITEM 613.11 HAS BEEN INCLUDED IN THE PROJECT QUANTITIES TO BE USED TO DEVELOP FISHERIES HABITAT. REFER TO THE STREAM ALTERATION PERMIT.
- IN STREAM CONSTRUCTION SHALL BE PERMITTED FROM JUNE 1 TO OCTOBER 1.
- FOR ADDITIONAL NOTES REFER TO STD. SMT. SCB-D1-75, NOTES 1-16.
- EXISTING SIGNS SHALL BE REMOVED AND EITHER RESET OR RETURNED TO THE TOWN, AS DIRECTED BY THE ENGINEER. ANY NEW SIGNS REQUIRED WILL BE THE RESPONSIBILITY OF THE TOWN.

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	○
TELEPHONE POLE	○
TREES	○
CONTROL OF ACCESS	---
PROPERTY LINE	---
R.O.W. TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF WAITSFIELD
COUNTY OF WASHINGTON

ROUTE NO: TH 15 (CL3) BRIDGE NO: 25

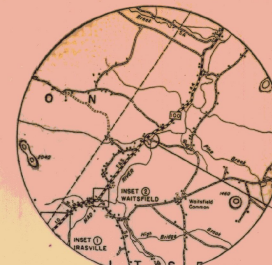
PROJECT LOCATION: This project begins approximately 980 feet southeasterly of the intersection of Vt 100 TH 15 and extends 900' northwesterly.

PROJECT DESCRIPTION: This project replaces the existing structure with a new rolled beam w/R.C. deck structure on a new northerly location w/approx. 850' of upgraded approach roadway and necessary channel work.

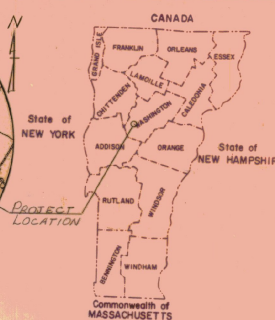
LENGTH OF STRUCTURE:	128.0 FEET
LENGTH OF PARTICIPATION ROADWAY:	772.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	FEET
LENGTH OF PROJECT:	900.0 FEET

TRAFFIC DATA

1982 AADT = 300
1982 DHV = 70
1992 AADT = 580
1992 DHV = 80
D = 56 %
T = 6 %
DESIGN SPEED = 30 MPH



LOCATION MAP
(TRACED FROM COUNTY MAP)



RECORD PLANS & MATERIAL SUPPLIERS

CONTRACTOR - WINTERSET, INC. BOX 968 LYNDONVILLE, VT. CONTRACT DATED - 9-14-82
CONSTRUCTION BEGAN - 9-15-82 CONSTRUCTION SUSPENDED - 11-13-82 CONSTRUCTION RESUMED - 3-14-83
CONSTRUCTION COMPLETED - 5-29-83 ACCEPTED - 6-1-83 RESIDENT ENGINEER - RODENICK FULLER
RECORD PLANS - GEORGE J. ABAR GRANULAR BORROW & BACKFILL - BAR IN RIVER SPAULDING FARM,
TUCKER PIT WAITSFIELD, VT. SUBBASE OF GRAVEL - STOCKPILE TOWN OF WAITSFIELD (RIVER GRAVEL)
CONCRETE CLASS "A" 4" x 8" - A.G. ANDERSON CO., INC. BERLIN, VT. STEEL PILING - BETHELEHEM STEEL CORP.
SAUSON PA. REIN. STEEL - K-ROSS BUILDING SUPPLY CENTER INC. LEBANON, NH. STRUCTURAL STEEL,
BEARING DEVICE ASSEMBLY & SHEAR CONNECTORS - VT. STRUCTURAL STEEL CORP. BURLINGTON, VT.
WATER REPELLENT - SONNENBORN BUILDING PRODUCTS MASPETH, NY. SHEET MEMBRANE WATERPROOFING -
ROYSTON LAB., INC. PITTSBURGH, PA. 15" ACCUM. - AMCO, INC. FENTON ST. FALMEN, MA. JOINT SEALER HOTPOURED -
W.R. MEADOWS & CO., INC. YORK, PA. BRIDGE RAILING & GUARD RAIL - LAFAYETTE & SHELTON INC. KELLOGG RD.
ESSEX VCT, VT. SEE: FERTILIZER - OLD FOX CHEMICAL CO. LYNDONVILLE, VT.

NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, MATERIALS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN THE RECORD PLANS AS THE ENGINEER'S FILE.



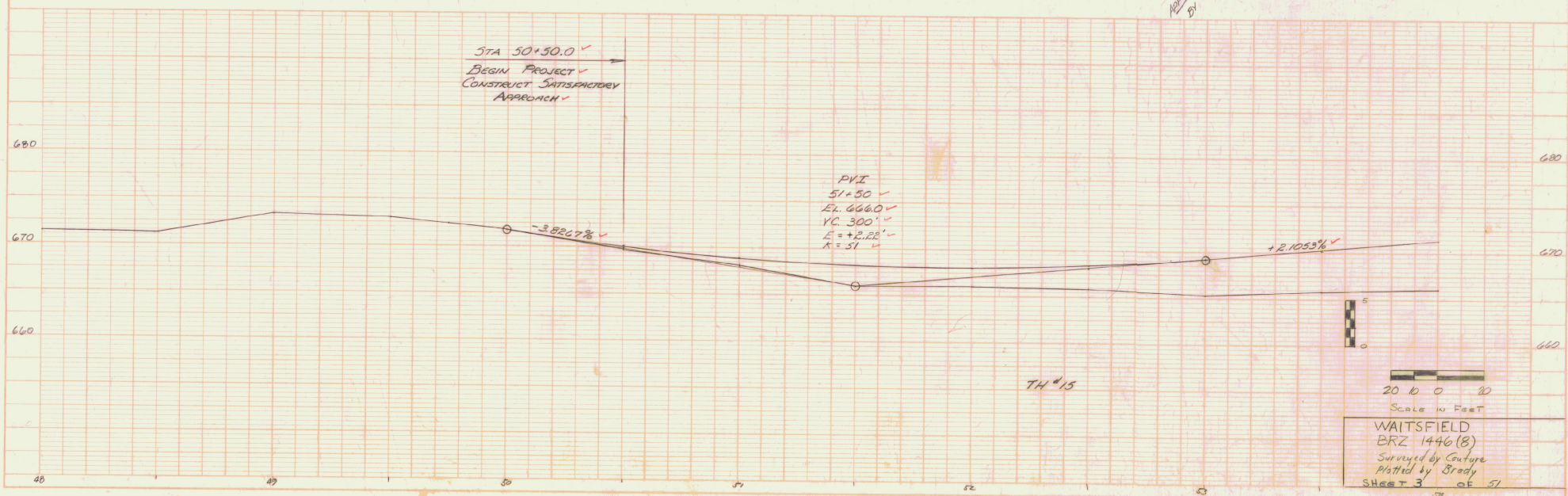
These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED <i>S. J. [Signature]</i>	DATE 8-2-82
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
PROJECT WAITSFIELD	PROJECT NO. BRZ-1446(8)
SHEET 1 OF 31	SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

0-8 17 Oct 71



BRIDGE RAILING- HEAVY DUTY
STEEL BEAM W/ BOX BEAM HAND RAIL

55+53.13 ~ 56+96.88 Lt. ✓
55+53.13 ~ 56+96.88 Rt. ✓

NOTE: STONE FILL LIMITS
BETWEEN CHANNEL STA.
3+00 - 3+50 ARE
APPROXIMATE.

CHAN. POT 3+73.00

WOOD GUIDE POSTS

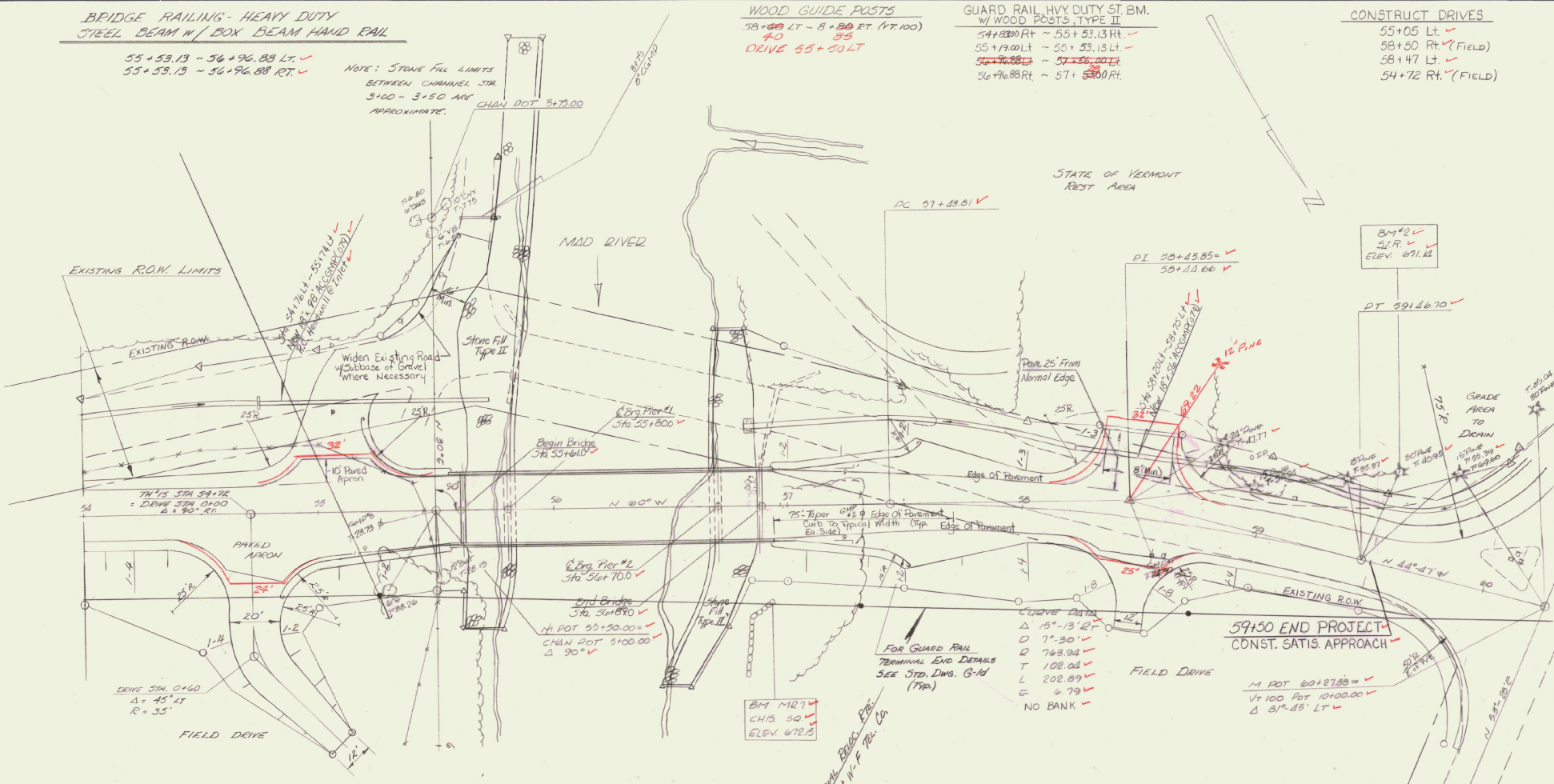
58+50 LT - 8+80 RT. (VT. 100)
40 85
DRIVE 55+50 LT

GUARD RAIL, HVY DUTY ST. BM.
W/ WOOD POSTS, TYPE II

54+8300 Rt. ~ 55+53.13 Lt. ✓
55+19.00 Lt. ~ 56+53.13 Lt. ✓
~~56+96.88 Lt. ~ 57+56.00 Lt. ✓~~
56+96.88 Rt. ~ 57+56.00 Rt. ✓

CONSTRUCT DRIVES

55+05 Lt. ✓
58+50 Rt. ✓ (FIELD)
58+47 Lt. ✓
54+72 Rt. ✓ (FIELD)

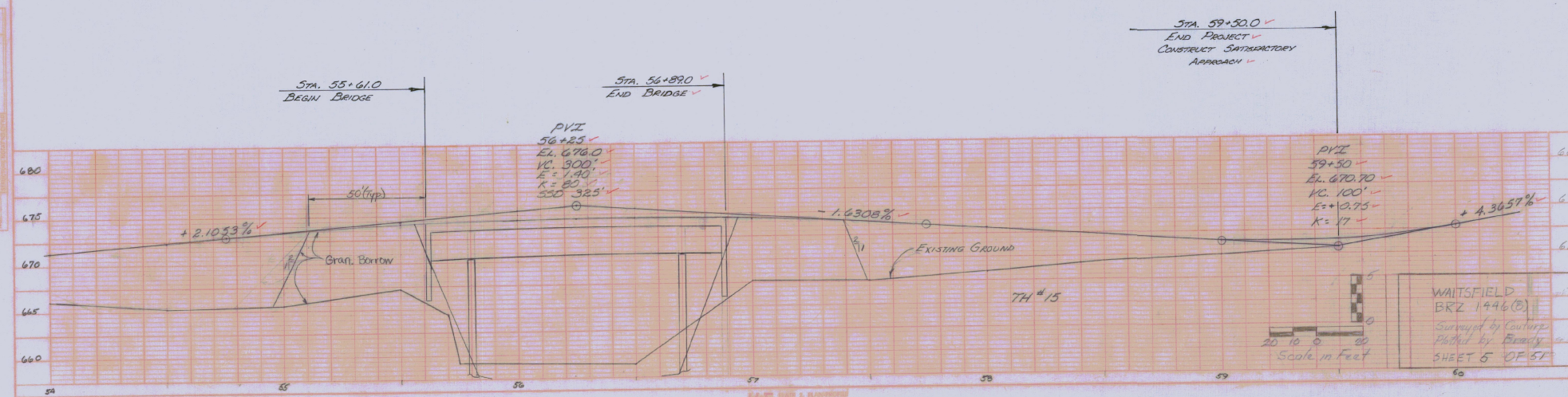
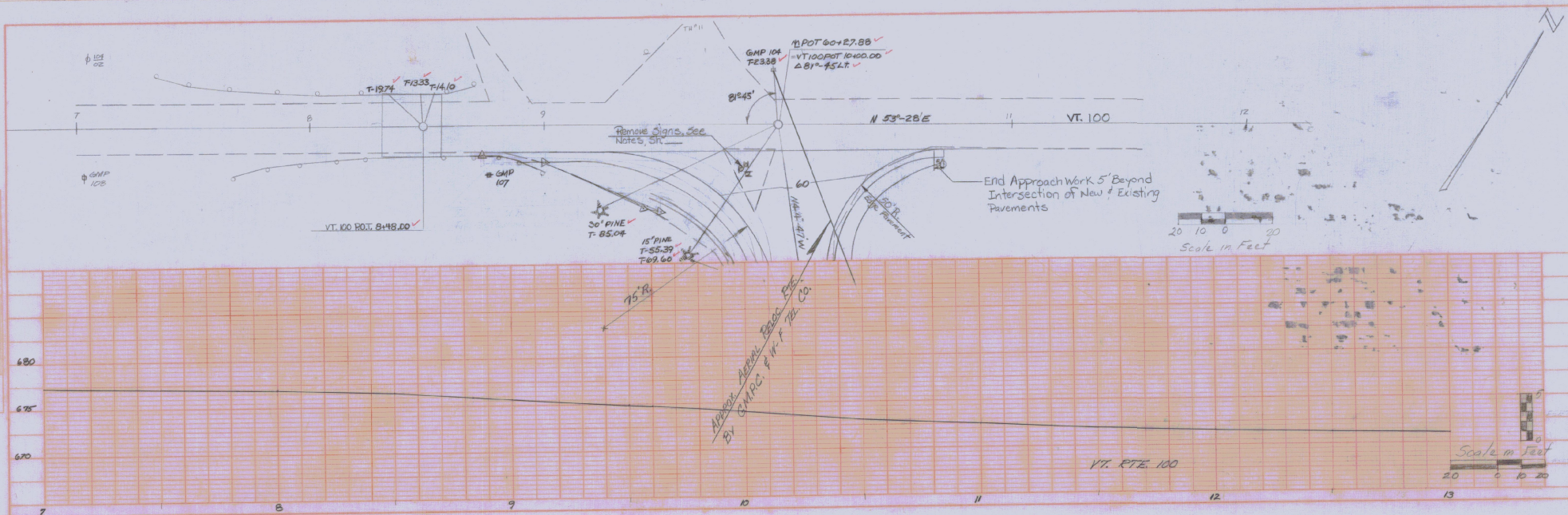


PLAN

1" = 20'

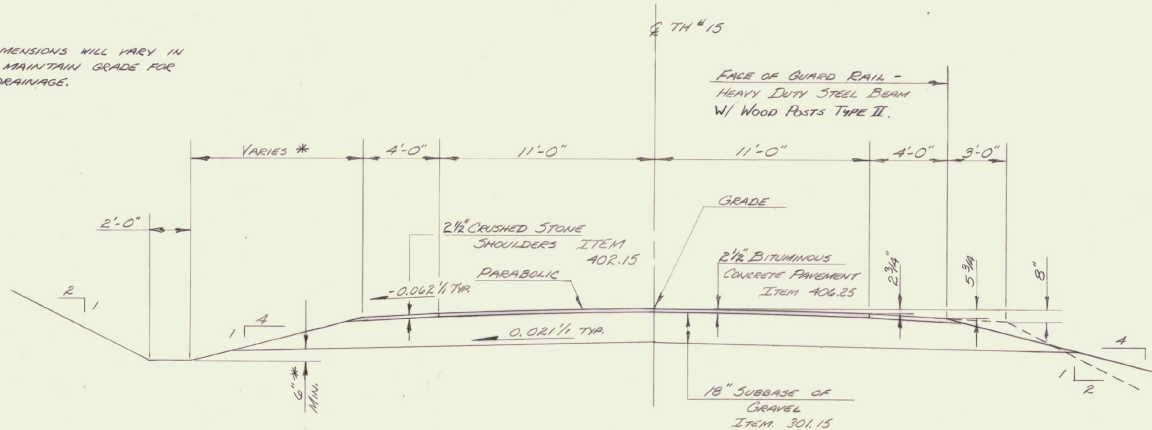
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF WAITSFIELD	Bridge No. 25
HIGHWAY NO. T.H. 15	Log Sta. Surv. Sta. 56+25
PLAN	
T.H. 15 OVER THE MAD RIVER	
Designed by G. Spilak	Drawn by R. Whitcomb
Checked by R. Ramalho	Bridge Design Supervisor R.S. Haupt
PROJECT WAITSFIELD	PROJECT NO. BRZ 1446 (B)
Bridge Sheet No.	Sheet 4 of 57



SEE PL. 1446
 1446
 1446

* THESE DIMENSIONS WILL VARY IN ORDER TO MAINTAIN GRADE FOR PROPER DRAINAGE.



TYPICAL ROADWAY SECTION

SCALE: 1" = 3'-0"

BUILT AS DESIGNED

SEED, ITEM 651.10 TO BE APPLIED AS DIRECTED BY THE ENGINEER				
QTY	LBS/A	NAME	PURCH. PRICE	
3.33	2	CROWN VETCH	97	1.75
30.00	30	CREeping RED PESCUE	98	0.85
8.33	5	TIMOTHY	99	0.85
5.00	3	HIGHLAND BENT GRASS	92	0.85
16.67	10	PERENNIAL RYE GRASS (VAR PENNINE)	95	0.85
8.33	5	ALPHALFA (VAR. SARAKAC)	99	0.85
4.00	2	BINDSFOOT TREFOIL (EMPIRE)	98	0.85
10.0	50 LBS/ACRE			

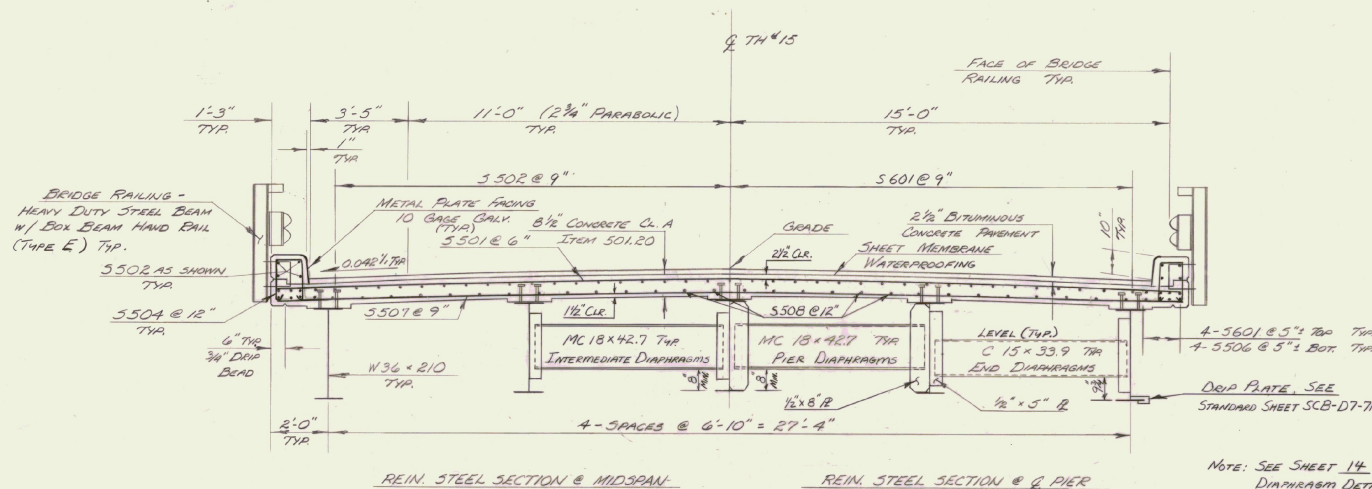
THIS SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.4% BY WEIGHT AND SHALL BE FREE FROM ALL NOxious WEED SEED

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 TO BE USED WITH SEED.
ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE
AGRICULTURAL LIMESTONE, ITEM 651.20
TO BE APPLIED AT RATE OF 2 TONS/ACRE
AS DIRECTED BY THE ENGINEER
MAY MULCH, ITEM 651.25
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

2 1/2" BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 (1 1/2")
18" SUBBASE OF GRAVEL ITEM 301.15 (1 1/2")

2 1/2" CRUSHED STONE SHOULDER ITEM 402.15 (1 1/2")

0-12" GRANULAR BORROW (IN FILL) ITEM 203.32 (1 1/2")
0-24" SAND BORROW (IN CUT) ITEM 203.31 (1 1/2")
(TO BE USED IF DESIGNED NECESSARY BY THE ENGINEER)



TYPICAL BRIDGE SECTION

SCALE: 1" = 2'-0"

NOTE: SEE SHEET 14 FOR ADDITIONAL DIAPHRAGM DETAILS.

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF	WAITSFIELD	Bridge No.	25
HIGHWAY NO.	TH #15	Log Sta.	
TOWN HIGHWAY #15 OVER	MAD RIVER	Surv. Sta.	36+25
TYPICAL SECTIONS			
Designed by	G.V. BILAK	Drawn by	M. GARCIA
Checked by	R. FAWCETT	Bridge Design Supervisor	R.S. HAUPT
date	2/82	date	3/02
PROJECT	WAITSFIELD	PROJECT NO.	BRZ 1444(B)
Bridge Sheet No.		Sheet	6 of 51

PLAN
PROJECT
DATE
BY
CHECKED
APPROVED
NOTED
REVISIONS

PROFILE
PROJECT
DATE
BY
CHECKED
APPROVED
NOTED
REVISIONS

NOTE: THIS SHEET IS TO BE USED FOR R.O.W. INFORMATION ONLY. SEE SHEET 3 FOR BRIDGE INFORMATION

BEGIN R.O.W. PROJECT BRZ 1446(8)
STA. 50+00.0

CONSTRUCT DRIVE
52+0 RT. (FIELD)

WILLIAM T. & COLLEEN R. KERR

JOSEPH E. & SALLY J. TREMBLAY

STA. 50+50
BEGIN PROJECT
CONSTRUCT SATISFACTORY
APPROACH

52+25
33' LT.

CONST. EASE (1)

50+00
24' LT.

POT 50+00.00

50+50
33' LT.

CONST. EASE (1)

SR(P)

175'

226'

IA

MATCH EXISTING
PAVEMENT

IB

73'

41'

50+34
40' RT.

CONST. EASE (1)

50+73
26' RT.

DONALD E. & LAURIE J. SPAULDING

20 10 0 0
SCALE IN FEET

STA 50+50.0
BEGIN PROJECT
CONSTRUCT SATISFACTORY
APPROACH

PVE
51+50
EX 666.0
VC 300'
P = -2.12%
L = 51'

+2.1053%

74' 15"

20 10 0 0
SCALE IN FEET
WATSFIELD
BRZ 1446(8)
Designed by Contura
Plotted by Brady
Sheet 7 of 8

NOTE: THIS SHEET IS TO BE USED FOR R.O.W. INFORMATION ONLY. SEE SHEET 4 FOR BRIDGE INFORMATION.

BRIDGE RAIL HWY DUTY
STEEL BEAM WOOD BEAM HAND RAIL
55+53.13 ~ 56+96.88 Lt.
55+53.13 ~ 56+96.88 Rt.

WOOD GUIDE POSTS
58+40 LT ~ 58+80 RT. (47.100)

GUARD RAIL HWY DUTY ST. BM.
W/ WOOD POSTS, TYPE II
54+98 Rt ~ 55+53.13 Rt.
55+19 Lt ~ 55+53.13 Lt.
56+96.88 Lt ~ 57+56.0 Lt.
56+96.88 Rt ~ 57+53.0 Rt.

CONSTRUCT DRIVES
55+05 Lt.
58+50 Rt. (FIELD)
58+47 Lt.

WILLIAM T. & COLLEEN P.
KERR

CARL L. & STEPHANIE D.
CREEDON

DONALD E.
& LAURIE J.
SPAULDING

STATE OF VERMONT
REST AREA

BM#2
S.P.R.
ELEV. 871.11

EXISTING R.O.W. LIMITS

EXISTING R.O.W.

Widen Existing Road
W/ Subbase of Gravel
Where Necessary

Begin Bridge
Sta 55+61.13

End Bridge
Sta 56+70.0

DONALD E. & LAURIE J.
SPAULDING

JOSEPH E. & SALLY J.
TREMBLAY

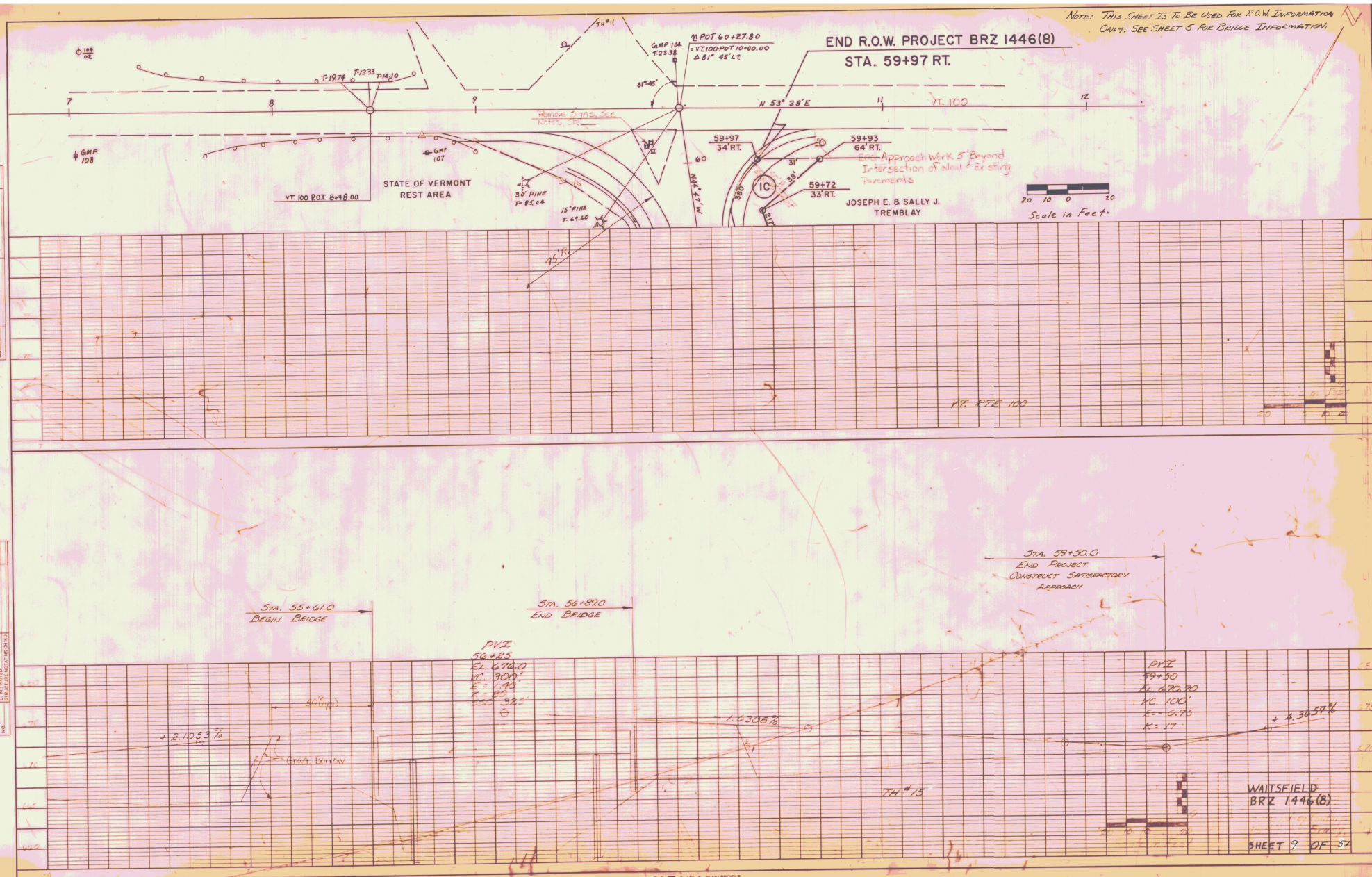
END R.O.W. PROJECT BRZ 1446(8)
STA. 59+97 RT.

PLAN
1" = 20'

20 10 0 10

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF WAITSFIELD	Bridge No.
HIGHWAY NO. T.H. 15	Log Sta.
	Surv. Sta.
PROJECT T.H. 15 OVER THE MAD RIVER	
Designed by G. Spilak	Drawn by R. Whitcomb
Checked by	Bridge Design Supervisor
date	R.S. Haupt
PROJECT WAITSFIELD	PROJECT NO. BRZ 1446(8)
Bridge Sheet No.	Sheet 5 of 57



STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

[illegible]

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: NBB DATE 2-10-82
CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
D — DEMOLITION OR
REMOVAL
W — WATER SOURCES

_____	PRESENT	R.O.W.
___/___	TAKING WITHOUT ACCESS	
___/___ P 	TAKING WITHOUT ACCESS	ALONG PROPERTY LINES
_____	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

--- CONST. EASE ---	CONST. EASEMENT
--- SR --- SR ---	SLOPE RIGHTS
--- P --- P ---	PROPERTY LINE
--- Δ --- Δ --- Δ ---	TOP OF CUT
--- ○ --- ○ --- ○ ---	TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 2-15-80
CHIEF OF PLANS & TITLES

PROJECT WAITSFIELD
NO. BRZ 1446(8)
SHEET 10 OF

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

[illegible]

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: NBB DATE 2-10-82
CHECKED BY: _____ DATE _____

CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
D — DEMOLITION OR
REMOVAL
W — WATER SOURCES

---	---	PRESENT	R.O.W.
///	--	///	TAKING WITHOUT ACCESS
///	$\frac{P}{L}$	///	TAKING WITHOUT ACCESS ALONG PROPERTY LINES
---	---	TAKING WITH ACCESS	
(P)		PERMANENT EASEMENT	
(T)		TEMPORARY EASEMENT	

LEGEND

----- CONST. EASE ----- CONST. EASEMENT
----- SR ----- SR ----- SLOPE RIGHTS
----- P ----- P ----- PROPERTY LINE
----- Δ ----- Δ ----- Δ ----- TOP OF CUT
----- ○ ----- ○ ----- ○ ----- TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 2-16-82
CHIEF OF PLANS & TITLES

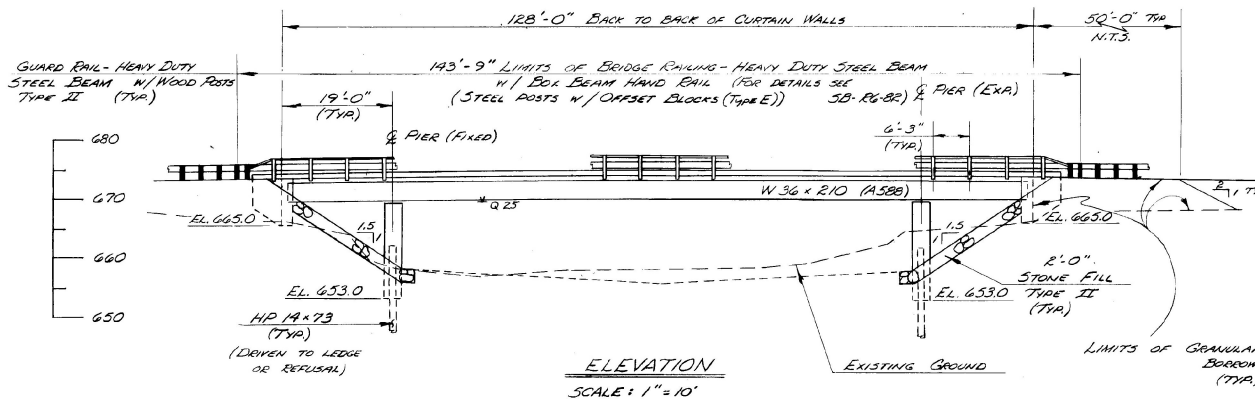
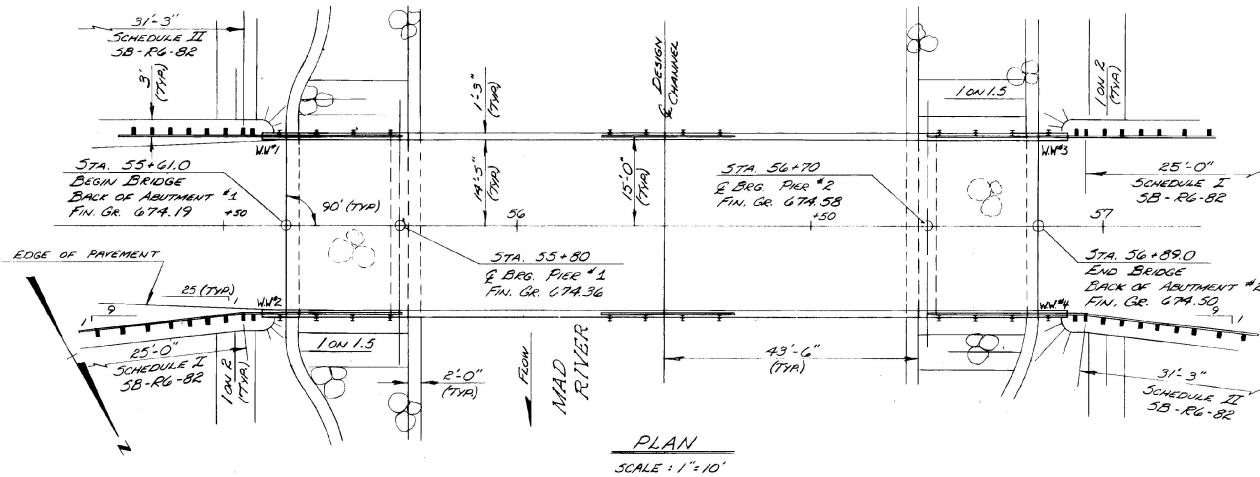
PROJECT WAITSFIELD

NO. BRZ 1446(8)

SHEET 11 OF 51

NEW HIGHWAY SECTION — BRIDGE APPROACHES

BRIDGE TYPICAL SECTION



EXISTING STRUCTURE

- STRUCTURE TYPE: STEEL TRUSS OVERALL LENGTH: 114.2 INVENTORY RATING: H-10
- SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS: 114.2
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 128.0
- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 128.0 VERTICAL CLEARANCE ABOVE STREAMED: 12.0
- WATER SURFACE ELEVATION @ Q 2.33: 668.0 WATER SURFACE ELEVATION @ Q 10: 668.0
- WATER SURFACE ELEVATION AT FLOOD OF RECORD: 668.0 YEAR: 1982 ESTIMATED DISCHARGE: 2,300 CFS
- DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? NO IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? ON 1982
- ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF: UNLIMITED
- TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL: CONCRETE
- DISPOSITION OF STRUCTURE: TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR

NEW STRUCTURE

- STRUCTURE TYPE: 3-SPAN CONTINUOUS CHAIRLOVER (25'-0" OVERALL LENGTH) 128'
- SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS: 50' (TYPICAL SPAN) 2 (TYPICAL SPAN)
- VERTICAL CLEARANCE ABOVE STREAMED OR ROAD UNDER: 12.5
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 128.0
- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 128.0 VERTICAL CLEARANCE ABOVE STREAMED: 12.5
- ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

- HYDRAULIC DATA:
- | Q | WATER ELEVATION | VELOCITY |
|--------|-----------------|----------|
| Q 2.33 | 668.0 | 4.4 fps |
| Q 10 | 668.0 | 4.1 fps |
| Q 25 | 668.0 | 2.0 fps |
| Q 50 | 668.0 | 2.0 fps |
| Q 100 | 668.0 | 2.0 fps |
- ARE THERE OBSTRUCTIONS TO A PIER IN THE STREAM? NO ROLLING TO REMOVAL
 - DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY RISE RAPID? NO
 - NATURE OF NATURAL STREAMBED: NO SLOPE AND SHOULDER: NO
 - ESTIMATED SCOUR DEPTH: 1.2 FEET COMMENT ON DIRT: NO HEAVY
 - WILL ALL WATER PASS THROUGH NEW STRUCTURE? NO IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR? ON 1982
 - ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF: UNLIMITED
 - VERTICAL CLEARANCE ABOVE Q 2.33: 12.5 LIMITED BY: BOTTOM OF BEAMS
 - ALLOWABLE WATER SURFACE ELEVATION: 668.0 IF YES, DESCRIBE: NO
 - IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? NO
 - AVERAGE DAILY LOW FLOW: 2.33 DEPTH: 1.2 AVERAGE DAILY HIGH FLOW: 2.33 DEPTH: 1.2
 - STREAMLINE OR CHANNEL PROTECTION REQUIRED: NO TYPE II
 - DISTANCE TO EXISTING UPSTREAM STRUCTURE: 1.2 SPAN: 50' WATERWAY AREA OF FULL OPENING: 128.0
 - DISTANCE TO EXISTING DOWNSTREAM STRUCTURE: 1.2 SPAN: 50' WATERWAY AREA OF FULL OPENING: 128.0

- ALLOWABLE STRESS:
- | DESIGN LIVE LOAD | ALLOWABLE LOAD FOR PILING | ALLOWABLE STRESS FOR STRUCTURAL STEEL | ALLOWABLE STRESS FOR CONCRETE |
|------------------|---------------------------|---------------------------------------|-------------------------------|
| H-15-20 | NO | 20,000 PSI | 20,000 PSI |

- TRAFFIC MAINTENANCE:
- IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE: YES OR ON TEMPORARY BRIDGE: NO
 - TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY: NO TRAFFIC CONTROL SIGNALS REQUIRED: NO
 - MINIMUM CLEAR HEIGHT: NO MINIMUM WATERWAY AREA: NO
 - ARE SIDEWALKS REQUIRED? NO IF SO, ON WHAT SIDE? NO

ADDITIONAL DESIGN CONSIDERATIONS

STRESS LEVELS	LOAD RATING (TONS)							
	H	H8	32	4	5	6	7	8
INVENTORY	36	41						
POSTED	53	72		56	57	66		
OPERATING			86	102				

RECOMMENDED FOR APPROVAL: 21.01.1981 DATE: 11/4/81

RECOMMENDED FOR APPROVAL: 21.01.1981 DATE: 11/4/81

APPROVED BY: [Signature] DATE: NOV 9 1981

DIRECTOR OF ENGINEERING & CONSTRUCTION

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF: WAITSFIELD Bridge No.: 25

HIGHWAY NO.: R.H. # 13 Log. No.: 56+25

NO. 1 DESCRIPTION TONN HIGHWAY #13 OVER MAD RIVER BY & DATE 11/4/81

REVISIONS

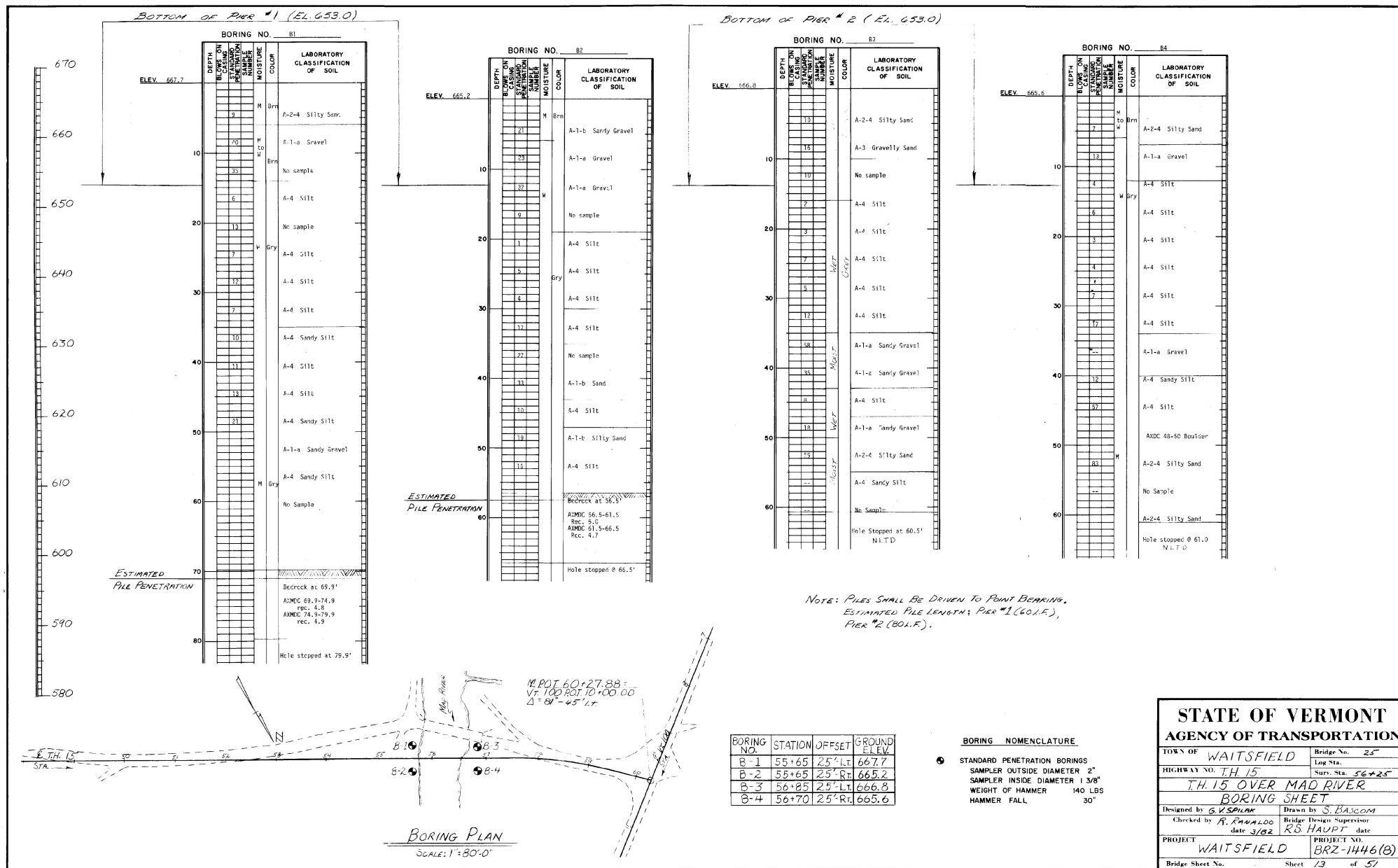
PRELIMINARY INFORMATION

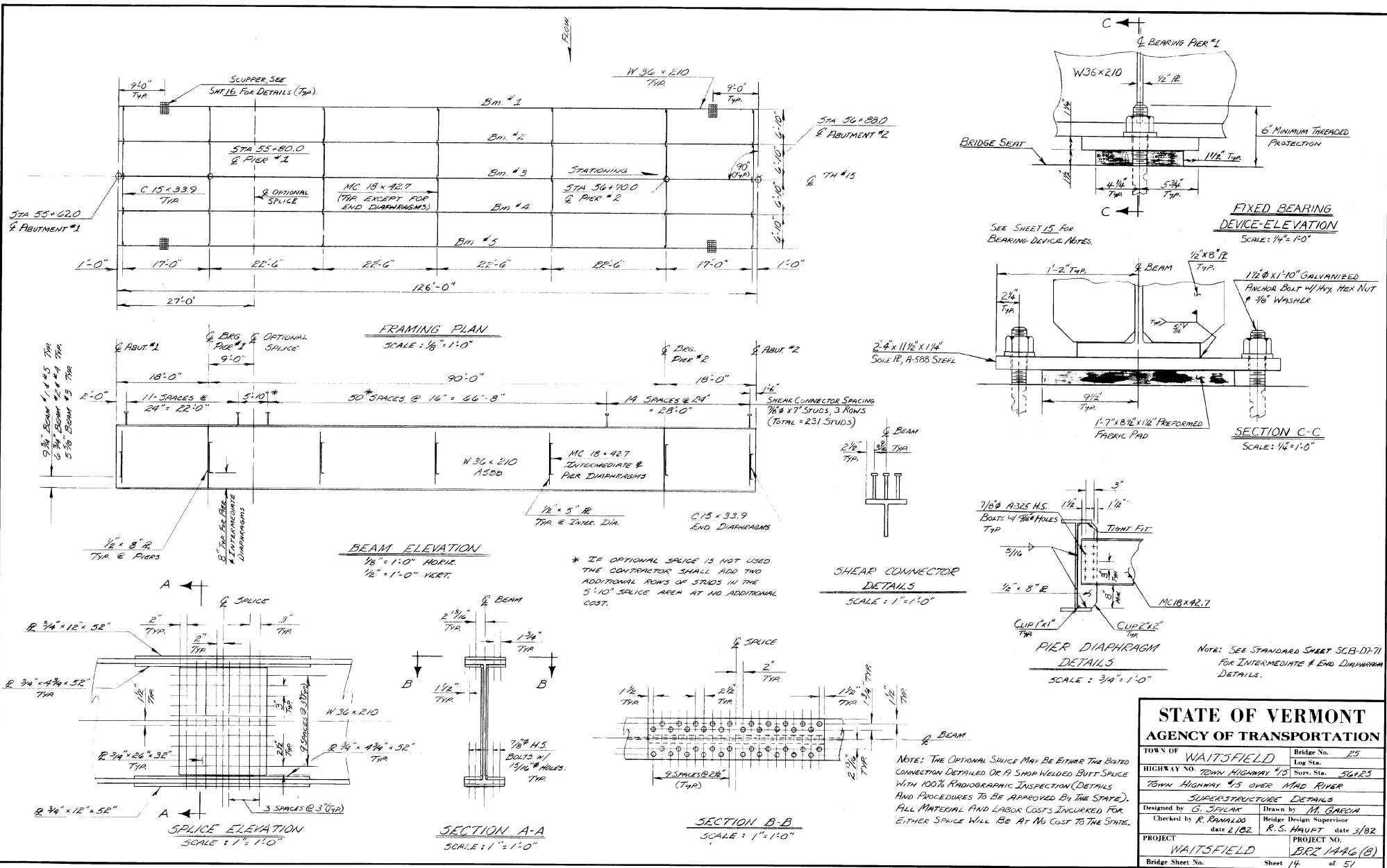
Designed by: G.V. JERLIK Drawn by: M. GARCIA

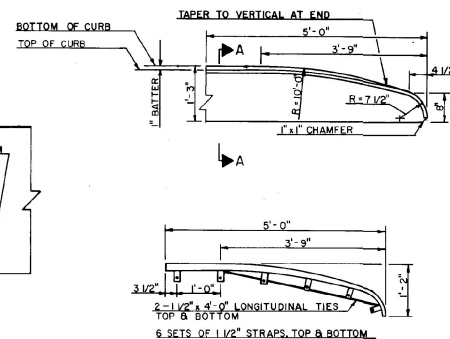
Checked by: A. ELWOOD date: 9-81 Bridge Design Supervisor: 10/81

PROJECT: WAITSFIELD PROJECT NO.: BRZ 1446(B)

Bridge Sheet No.: 12 of 51

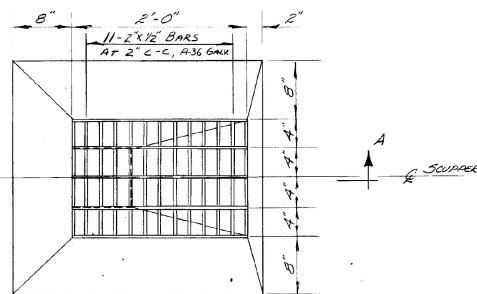
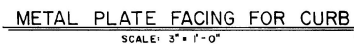




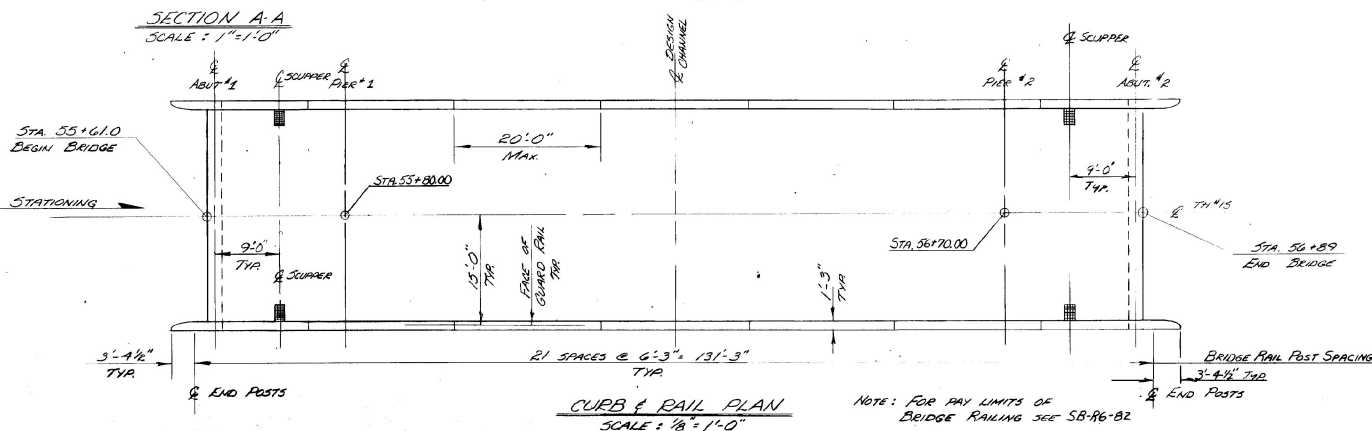


NOTES

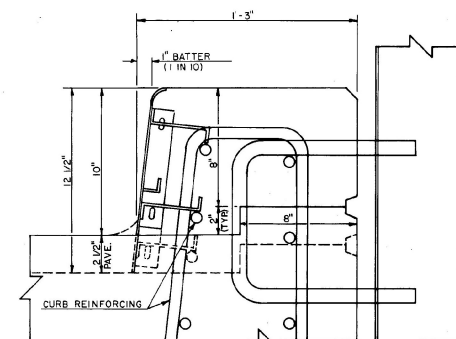
- 1- THE METAL PLATE FACING FOR THE CURB SHALL BE FABRICATED USING A.S.T.M. A-569, GALVANIZED, WITH A MAXIMUM LENGTH OF 10'-0". SECTIONS SHALL BE BOLTED TOGETHER WITH 3/8" Ø x 3/4" LONG A.S.T.M. A-307 BOLTS, GALVANIZED (A.S.T.M. M-232). ALL ELEMENTS SHALL BE 10 GAUGE THICKNESS.
- 2- END SECTIONS SHALL HAVE 6 SETS OF STRAPS AND TWO LONGITUDINAL TIES.
- 3- IF STRAPS ARE WELDED TO EPOXY COATED BARS IN THE FIELD, ALL DAMAGED AREAS OF BARS SHALL BE CLEANED AND RE-EPOXY COATED.
- 4- PRIOR TO FABRICATION, SHOP DRAWINGS INDICATING A PLANT LAYOUT SHALL BE SUBMITTED TO THE STRUCTURES DIVISION FOR APPROVAL IN ACCORDANCE WITH SECTION 105.03.
- 5- FOR CURB JOINT DETAILS SEE SPD-SCT-SCB-DK-76.
CURB JOINTS SHOULD CORRESPOND WITH JOINTS IN METAL PLATE FACING WHERE POSSIBLE.



NOTE: FOR ADDITIONAL
DETAILS AND NOTES
SEE SCB-DG-73

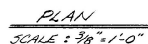


NOTE: FOR PAY LIMITS OF
BRIDGE RAILING SEE SB-R6-B2

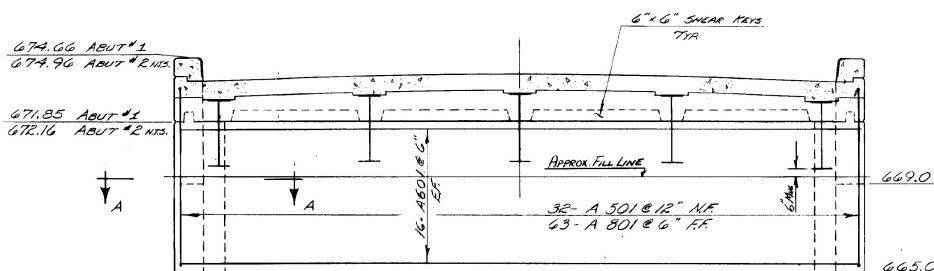


SECTION A-A
CURB DETAIL FOR FASCIA MOUNTED POST
SCALE: 3" = 1'-0"

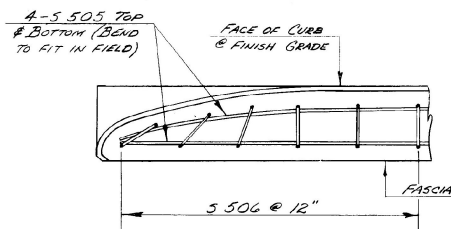
STATE OF VERMONT AGENCY OF TRANSPORTATION	
TOWN OF	Waitsfield Bridge No. 25 Highway No. Town Highway 105 Metal Plate Facing & Scupper Details Town Highway 105 over Wind River
Designed by	G. S. Zieker
Drawn by	M. Garcia
Checked by	R. F. Farnold
Scale	1/2" = 1'
PROJECT	Bridge Design Supervisor R. S. Zieker Date 3/82
	PROJECT NO. BRZ 1446(B)
Bridge Sheet No.	Sheet 16 of 51



SECTION C-C
SCALE: $\frac{1}{2}'' = 1'-0''$



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

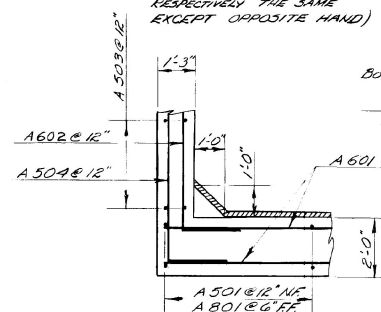


REINFORCING STEEL
@ CURB END
SCALE: 1" = 1'-0"

WINGWALLS #2 & 3

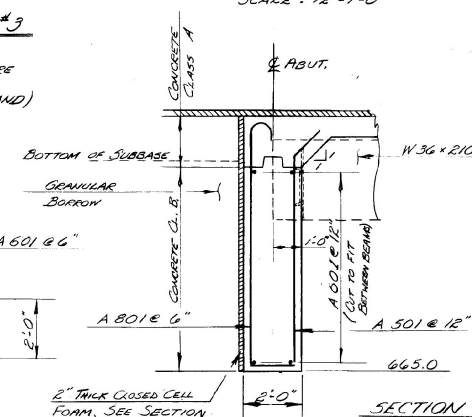
SCALE : $\frac{1}{2}" = 1'-0"$

(WINGWALLS #1 & #4 ARE
RESPECTIVELY THE SAME
EXCEPT OPPOSITE HAND)



SECTIONS A-A

SCALE : $\frac{1}{2}'' = 1'-0''$

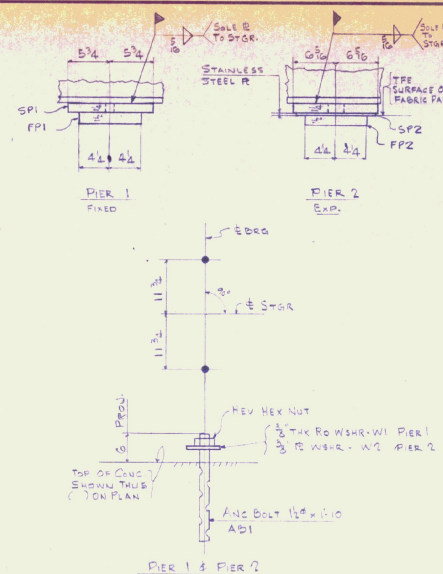


SECTION B-B
SCALE: 1/2" = 1'-0"

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF	WAITSFIELD	Bridge No.	25
HIGHWAY NO.	TOWN HIGHWAY #15	Log Sta.	
		Surv. Sta.	56+25
TOWN HIGHWAY #15 OVER MAD RIVER			
ABUTMENT DETAILS			
Designed by	G. SPILAK	Drawn by	M. GARCIA
Checked by	R. KAMALOO	Bridge Design Supervisor	
	date 2/82	R.S. MAINT	date 3/82
PROJECT	WAITSFIELD	PROJECT NO.	BRZ 1446 (B)
Bridge Sheet No.	Sheet 17		of 51

STATE OF VERMONT
DEPARTMENT OF HIGHWAYSD-2



BILL OF MATERIAL				QUANTITY		WEIGHT	
NO.	ITEM	DESCRIPTION	FT.	IN.			
		SOLE PL					
5	SP1	1 1/2 x 1 1/2	2	4			
5	SP2	1 1/2 x 1 1/2	2	4			
5	a	5 x 1 1/2	1	8			STAINLESS STEEL
		FABRIC PADS					
							ORO.
							FLUOROCARBON
5	FP1	1 1/2 x 3/4	1	7			SEE # 65549
5	FP2	1 1/2 x 3/4	1	7			SEE # 65549
							W/TEE SURFACE
							FOR DETAIL
		AUG BOLTS					
20	AB1	1 1/2 #	1	10			GALV.
		RD WSHRS					
10	W1	3/4 x 2 1/2 IN. x 1 1/2 IN.					GALV
		RE WSHRS					
10	W2	3/4 x 3/4	0	4 1/2			GALV

JOB NO. 82-3356-50 SHEET NO. 18

BILL OF MATERIAL

[illegible]

	PIECES	MARK	DESCRIPTION	DIMENSIONS		WEIGHT
				FT.	IN.	

[illegible]

一、#

SUBMITAL "2"

Substrate

[illegible]

Frage

THE SET

FILE 551

[illegible][illegible][illegible]

REVISION RECORD				
NO.	DESCRIPTION	DATE	BY	CHKD.
1	Initial Issue	10/1/78	W. J. ...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

DATE	REV. #	BY	REVISION

[illegible][illegible]VERMONT STRUCTURAL STEEL CORPORATION

VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VERMONT

		DATE	PROJECT	WAITSFIELD	PRINT RECORD
--	--	------	---------	------------	--------------

DEATH BY	T	LOCATION	T.H. 15 OVER MAD RIVER WAITSFIELD, VT	NO.	FOR	DATE
----------	---	----------	---------------------------------------	-----	-----	------

CREDIT	5	10-8-82	CUSTOMER	WINTERSET INC.	5	APPL	10/13/82
--------	---	---------	----------	----------------	---	------	----------

AS NOTED	30	5/10/70	10-20
	F	F 1007	10/30

ROUTE	As Noted	PROJECT	STATE OF VT AGENCY OF TRANSPORTATION	5	FIRST	VIEWED
-------	----------	---------	--------------------------------------	---	-------	--------

PAGE NO. _____ JOB NO. 87-3856 SHEET NO. E13

SUBMITAL #2

FILE SET

NOTE: —

DRQ DEVICE ASSEMBLY, SHALL
IN ADDITION TO THE TYPE D
CERTIFICATION REQ'D IN
SECT. 10-10 CERTIFY THAT
UNITS SUPPLIED ARE DESIGNED
TO MEET THE LOADING REQUIRE-
MENTS INDICATED BELOW.

LONGITUDINAL	• 10K
TRANSVERSE	• 10K
BEARING	• 160K

OCT 22 1987

RECEIVED
OK'D BY SLV OK'D BY _____
RESUBMIT _____ APPROVED ✓
BY SLK DATE _____

MATL A588 (UN)

PAINT NOTES:

1. Surface Protection -- Blast Clean per Vermont State Spec. 506.47(b)2.

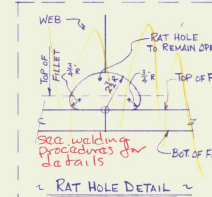
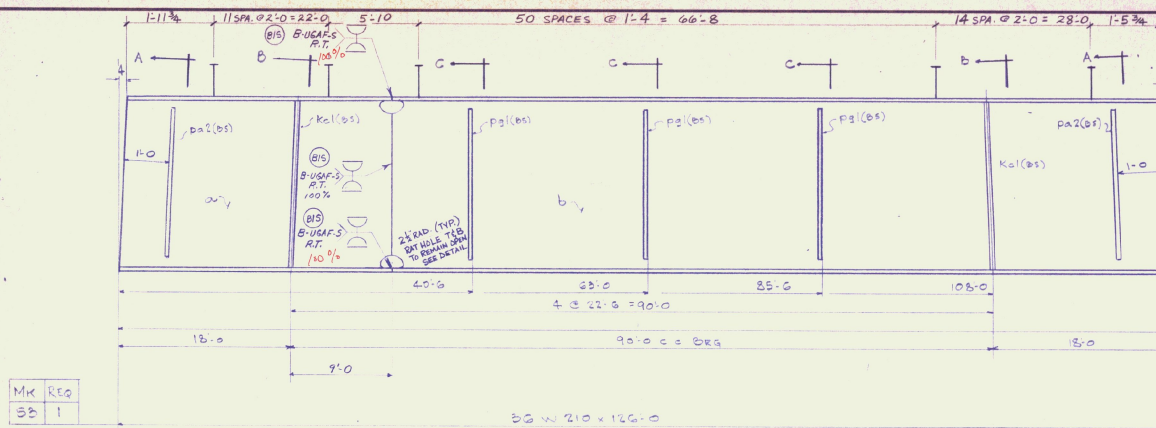
SHOP NOTES:

1. Structural Steel to be fabricated in accordance with the State of Vermont Department of Highways "Standard Specifications for Highway and Bridge Construction" dated March 1976 and its latest revisions and the AASHTO Standard Specs for Highway Bridges dated 1977 and its latest revisions.

MX	REQ
ABI	20

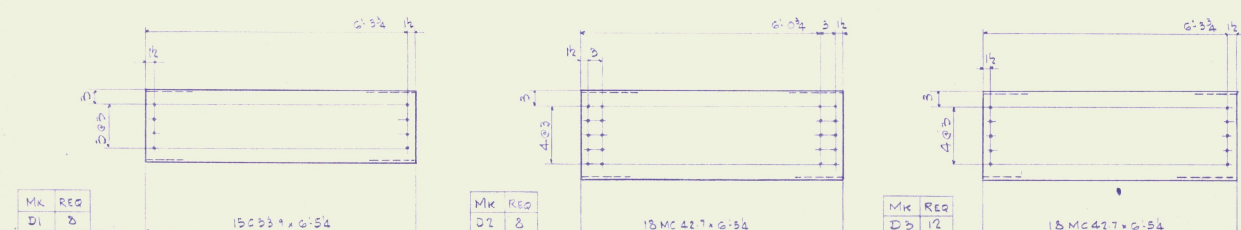
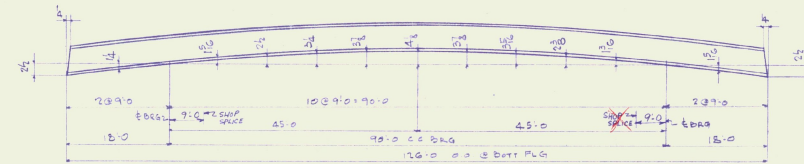
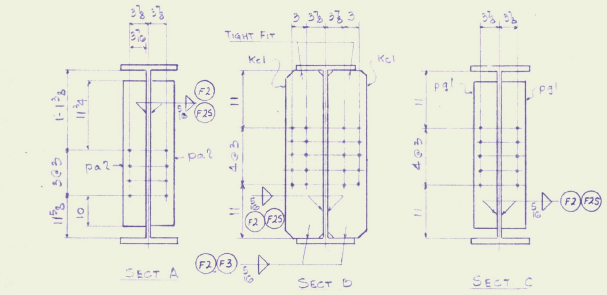
MK	REG
W2	10

MK	REQ
WI	10



BILL OF MATERIAL					
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			ft.	in.	
1	SB	STRINGER			
1	a	26 W 210 ^{1/2} LAMP	27	0	QCD. BETH. #45004
1	b	1 ¹ / ₈ " @ RAIL	99	0	Q27-3, 99-2
MC1	4	1/2" x 5/8"	2	10	1/2" STE
DA2	4	1/2" x 5/8"	2	10	1/2" STE
P31	6	1/2" x 5/8"	1	1	5 @ 21-0.
<u>81-3856-51</u> SHOP APPLIED SHEAR STUDS					
231		1/8" SHEAR STUD	0	7	2 IN. TUBULAR STE #8506-1

BILL OF MATERIAL					
NO.	MARK	DESCRIPTION	LENGTH	WEIGHT	
8	D1	18 C 27.9	6' 54"		QCD. BETH. #45004
8	D2	18 MC 42.7	6' 54"		
12	D3	18 MC 42.7	6' 54"		



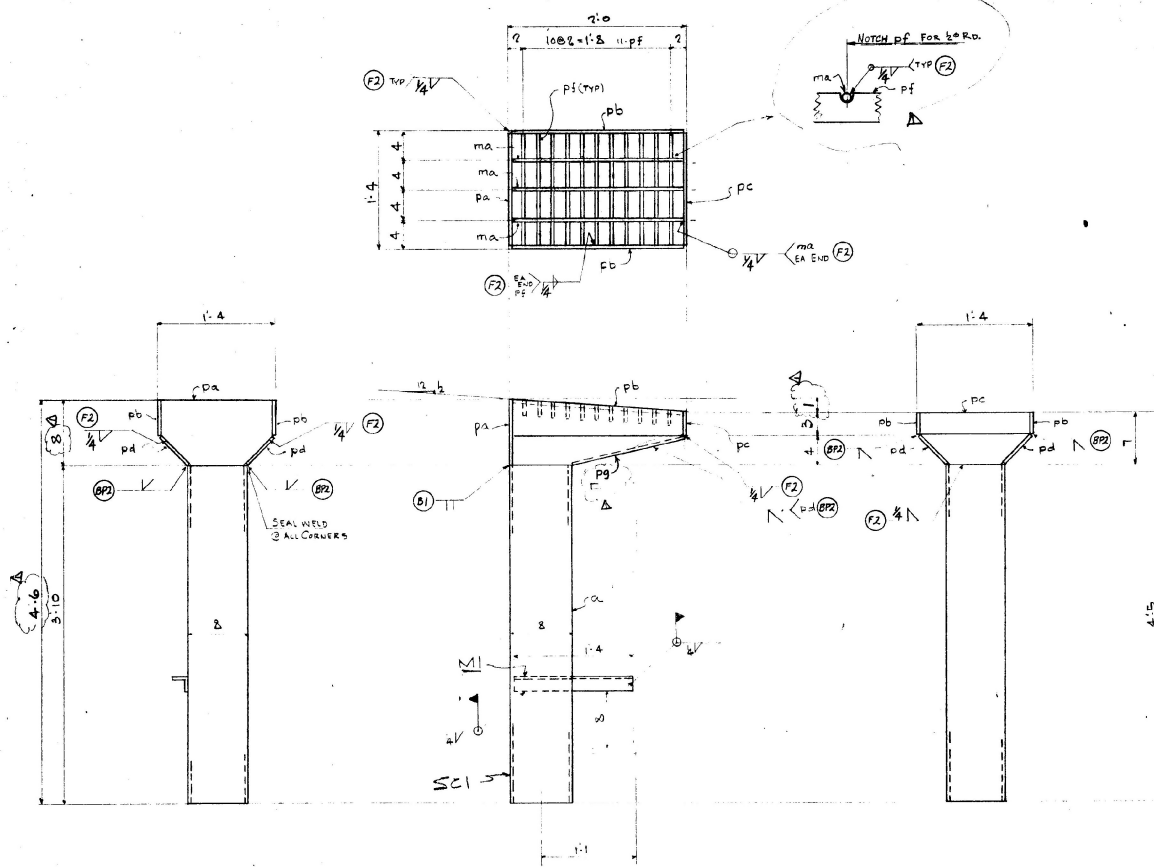
RECEIVED
 CK'D BY AVA OK'D BY AVA
 REG. SUBMIT. APPROVED AVA
 BY AVA DATE 10/19/12

REVISION RECORD			
DATE	REV. #	BY	REVISION
10/20/12	3	AT	RAT HOLE DETAIL & REV.
10/20/12	2	AT	ADD SHOP APPL'D SHEAR STUDS
10/19/12	1	AT	PER APPL

VERMONT STRUCTURAL STEEL CORPORATION
 BURLINGTON, VERMONT

PROJECT: WATSFIELD
 LOCATION: THRU OVER MAD RIVER WATSFIELD, VT
 CLIENT: WINTERSET INC
 ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION
 DATE: 10-8-12
 SHEET NO.: 23

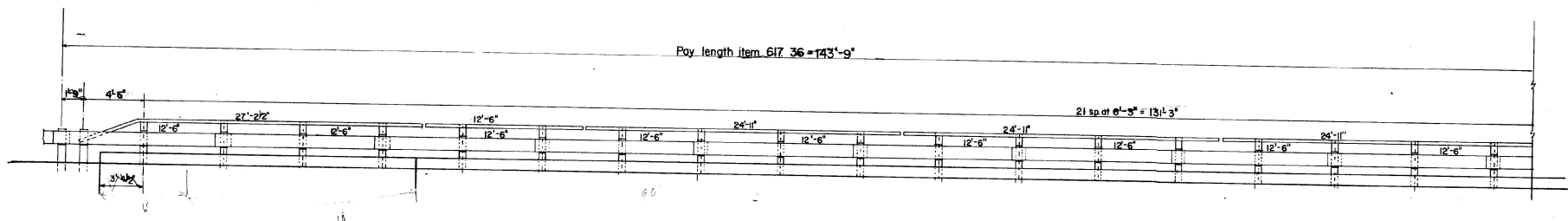
MATL A588



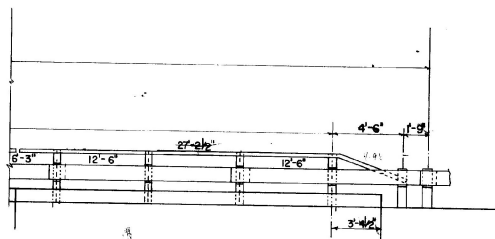
4 SCUPPERS - SCI } GALV.
4 - MI (NO PAINT)

RECEIVED OCT 23 1982
OK'D BY
RESUBMIT APPROVED
BY DATE 10/18/82

A36 (U)		BILL OF MATERIAL		WEIGHT	
NO	DESCRIPTION	QTY	UNIT	WT	WT
4	SCI				
4	a				
4	pa				
8	pb				
4	pc				
4	pd				
4	pe				
4	pf				
4	pg				
12	ma				
4	MI				
360	FIELD BOLTS				
360	1/2" A325 BOLT TYPE III				
360	1/2" HARD. NICH. TYPE III				
JOB NO. 82-3856 SHEET NO. 3					
BILL OF MATERIAL					
NO	DESCRIPTION	QTY	UNIT	WT	WT
REVISION RECORD					
DATE	REV #	BY	REVISION		
10/18/82 AT PER APP'L					
VERMONT STRUCTURAL STEEL CORPORATION					
BURLINGTON, VERMONT					
PROJECT: WAITFIELD					
LOCATION: T-18 OVER MAD RIVER, WAITFIELD VT					
CUSTOMER: WINTERSET INC					
DESIGNED: STATE OF VT AGENCY OF TRANSPORTATION					
DRAWN: GALV. (U.N.)					
JOB NO. 82-3856 SHEET NO. 3					



TYPICAL ELEVATION



FILE SET

	BRIDGE POSTS		CLIP ANGLES		6"x3" RAILS		SPLICE BARS		WELDS	
	22	22	1	3	2	2	10	40	22	
NORTH	22	22	1	3	2	2	10	40	22	
SOUTH	22	22	1	3	2	2	10	40	22	
TOTAL	44	44	2	6	4	4	20	80	44	

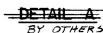
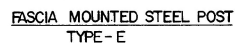
ALL ADDITIONAL MATERIAL SUPPLIED BY OTHERS

RECEIVED
CK'D BY *AVA*
RESUBMIT *BH*
DATE *4/19/83*
APPROVED *[Signature]*
DATE *4/19/83*
Allen & Co.

Total pay length item 61736 = 287'-6"

DRAWN BY: M J Z	DATE: 3/31/83	CHECKED BY: [Signature]	SHEET NO. 1 OF 2
BRIDGE RAILING LAYOUT			
Town of Waitsfield			
PROJ. NO. BRZ 1446(B)			
LAFAYETTE - SHELDON			
O.W. HUBBELL & SONS, INC.			
NEW HARTFORD,		NEW YORK	

DS-3688

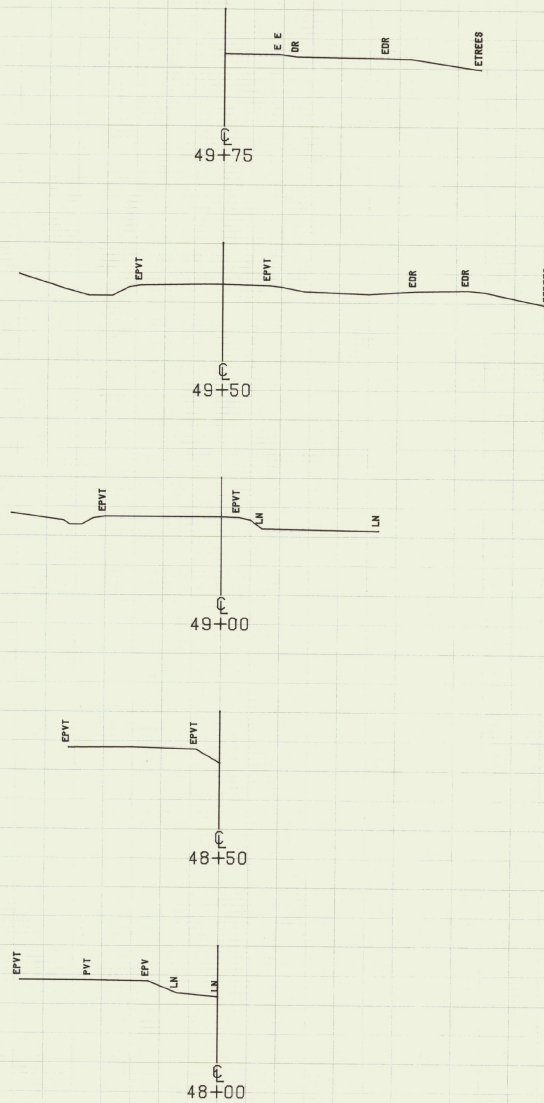


NOTES:

- 1) See steel drawing G-1 & G-1d for additional details of steel beam guard rail, and steel SB R-4a-12 for additional details of guard beam rail.
- 2) Anchor bolts, nuts and washers shall be galvanized in accordance with ASTM A-153.
- 3) Materials shall conform to the following specifications:
 - Heavy Duty Steel Rail - AASHTO M180, Class B-Type 2.
 - Posts, offsets, Z's, R's - ASTM A-36.
 - 6"x3/4" tube - ASTM A-500 gr. B.
 - Bolts, washers & nuts - ASTM A-307.
- 4) All materials shall grade in accordance with ASTM A-123.
- 5) All posts shall be set normal to grade.
- 6) Approach rail height shall be transitioned to normal roadway hit in 25 feet.
- 7) Approach railing shall be heavy duty steel beam for 50 feet from the end of the bridge.
- 8) Splices shall lap in the direction of traffic.
- 9) Weld no. 3 shall conform to Q.W. HUBBELL, Approved welding Procedure.

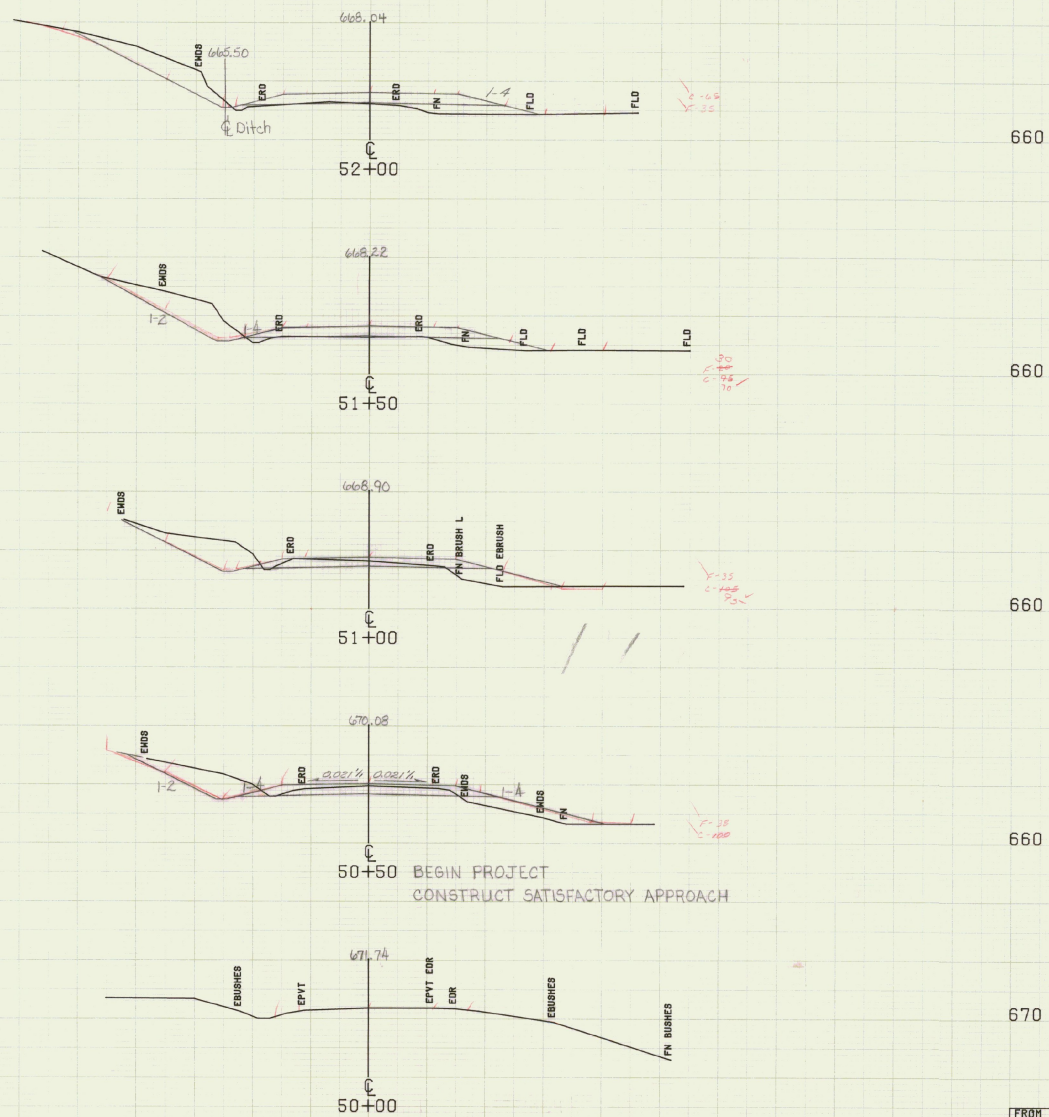
RECEIVED
CK'D BY AW OK'D BY _____
RESUBMIT _____ APPROVED _____
BY BSH DATE 4/14/83
Alan W. Corcoran

DRAWN BY: M J Z	DATE: 3/29/83	CHECKED BY: TJH	SHEET NO: 2
<u>BRIDGE RAILING DETAILS</u>			
Town of Waitsfield			
PROJ NO BRZ 1446 (B)			
CUSTOMER LAFAYETTE - SHELTON			
O.W. HUBBELL & SONS, INC.		NEW YORK	
NEW HARTFORD,		DS-3688	



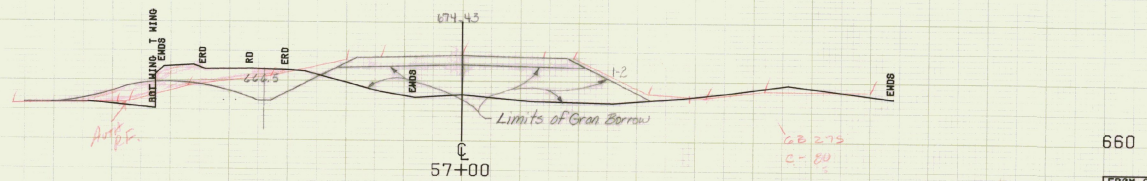
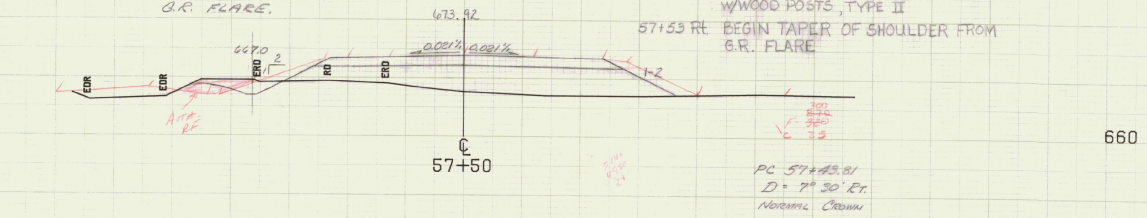
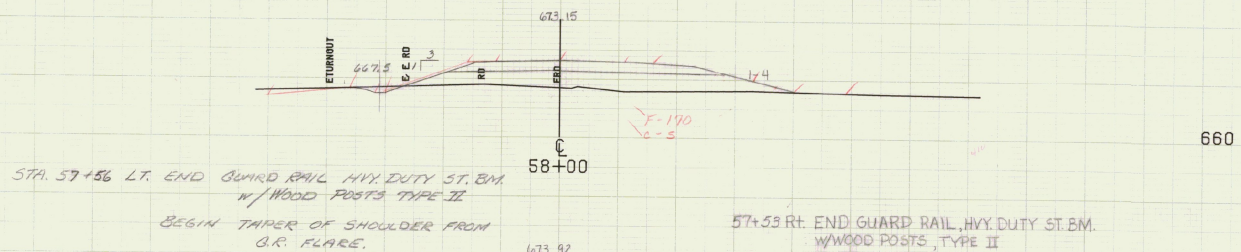
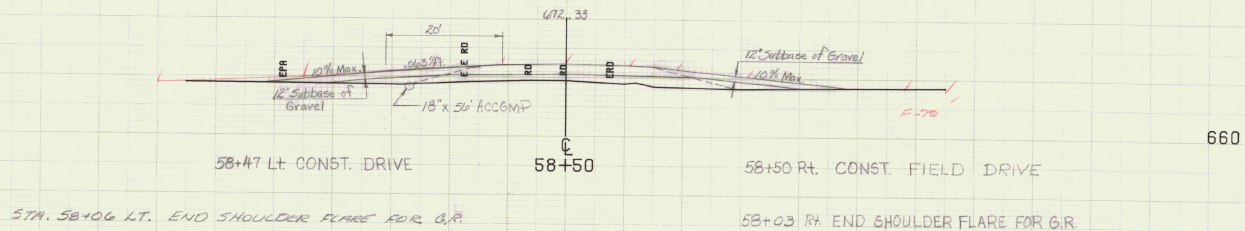
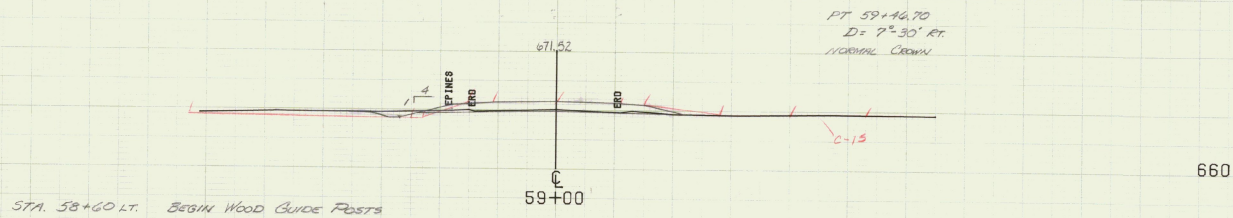
SCALE 1" = 10' FEET

FROM STA. 48+00	TO STA. 49+75
PROJECT NAME	WAITSFIELD HAIN
NO.	BRZ1446(8)
SURVEYED BY	COUTURE
SHEET 20 OF 51	PLOTTED 02/25/81
	OCT 1980



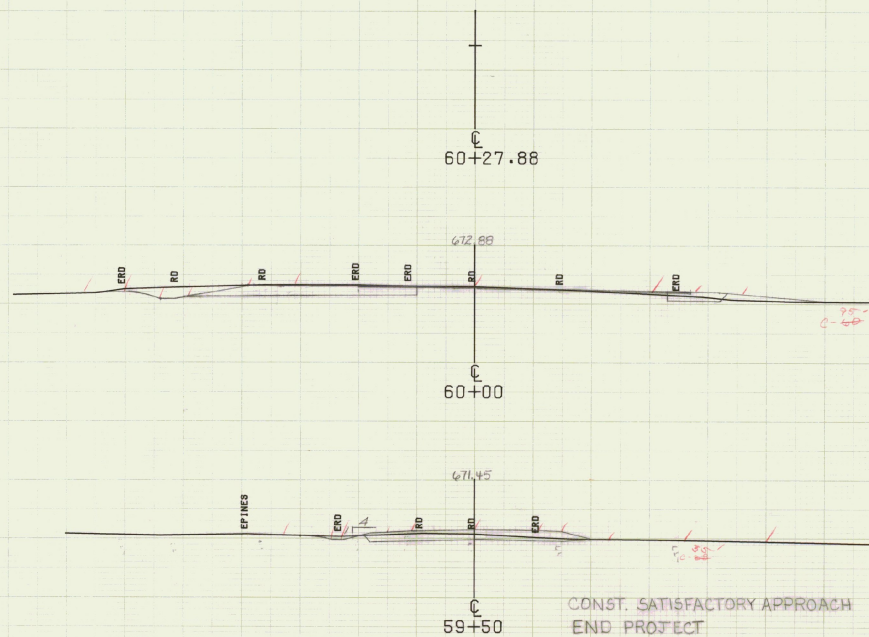
SCALE 1" = 10' HORIZ

FROM STA. 50+00	TO STA. 52+00
PROJECT NAME	WAITSFIELD MAIN
NO.	BR21446(8)
SURVEYED BY	COUTURE
SHEET 21 OF 57	PLOTTED 02/25/81
	OCT 1980



FROM STA. 57+00	TO STA. 59+00
PROJECT NAME	WAITSFIELD MAIN
NO.	BR21448(B)
SURVEYED BY	COUTURE
SHEET 24 OF 57 SHEETS	PLOTTED 02/26/81
	OCT 1980

SCALE 1" = 10 FEET



SCALE 1" = 10 FEET

FROM STA. 59+50	TO STA. 60+27.88
PROJECT NAME	WAITSFIELD MAIN
NO.	BR21446(8)
SURVEYED BY	COUTURE
SHEET 25 OF 57 SHEETS	PLOTTED 02/26/01
	OCT 1980

PLAN CRED 617.88 M&M



660

660

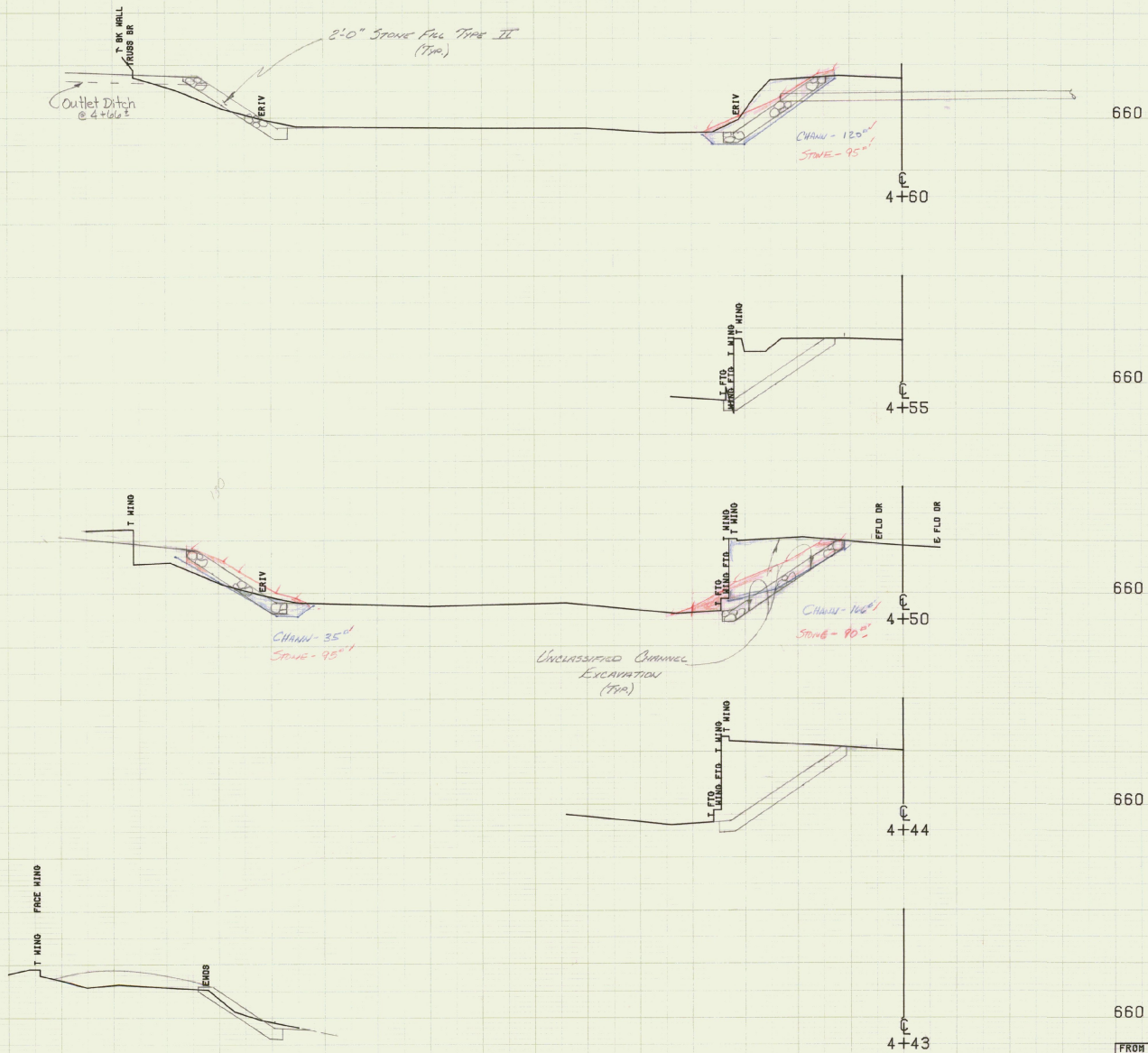
660

660

660

FROM STA. 3+50 TO STA. 4+25
PROJECT NAME: WAITSFIELD CHAN
NO. BR21446(8)
SURVEYED BY: COUTURE
SHEET 26 OF 51 SHEETS
PLOTTED 02/25/01
OCT 1990

SCALE 1" = 10 FEET

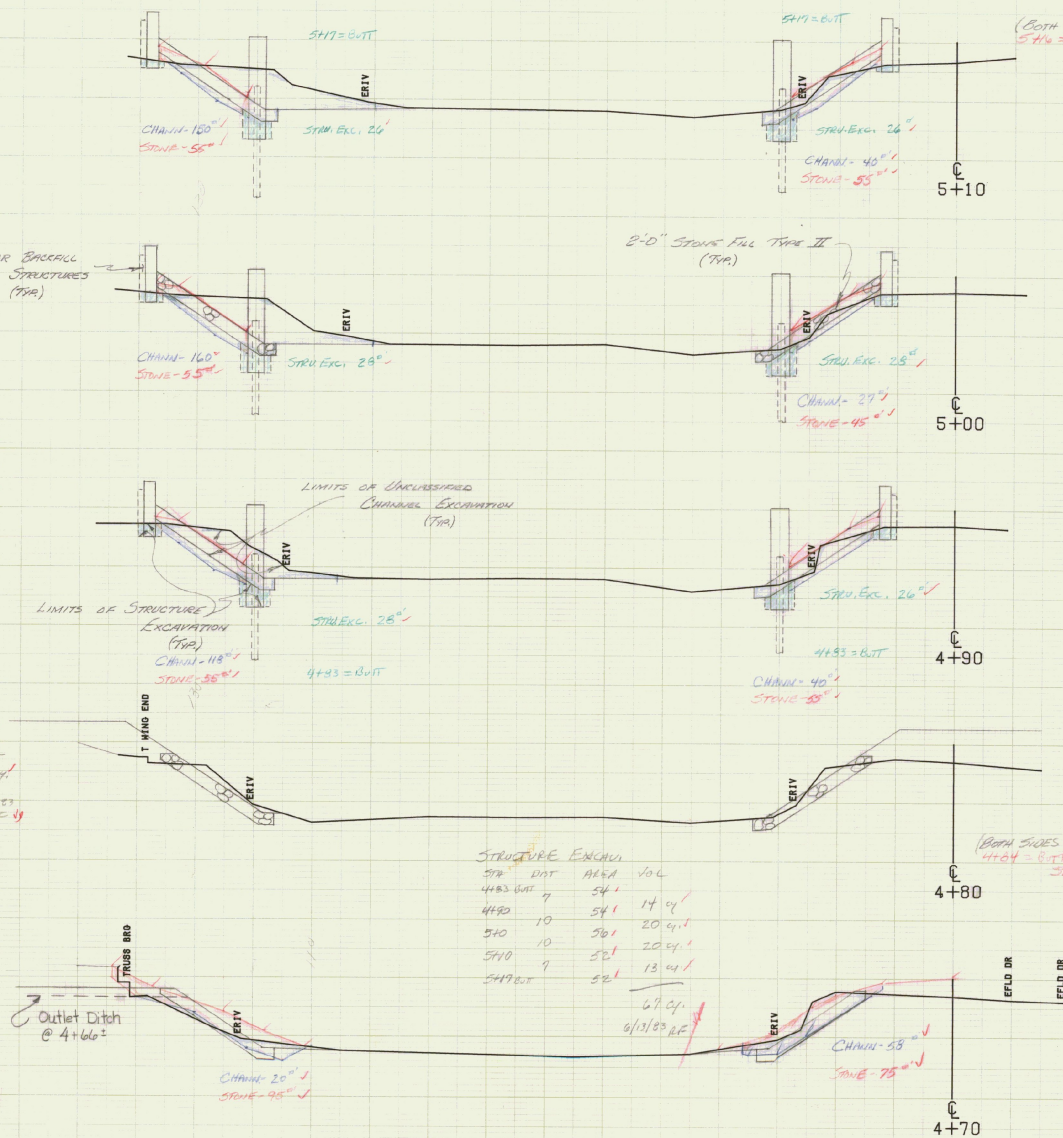


SCALE 1" = 10 FEET

FROM STA. 4+43	TO STA. 4+60
PROJECT NAME	WATSFIELD CHAN
NO. BRZ1446(B)	PLOTTED 02/25/81
SURVEYED BY COUTURE	OCT 1980
SHEET 27 OF 57	SHEETS

WEST SIDE

STA	DIST	CHANN. EXCAV. AREA VOL.	STRUCTURE AREA VOL.
4+25	25	45' 37 cu.	30' 56'
4+50	25	35' 20 cu.	95' 70'
4+70	20	20' 10 cu.	95' 49'
4+84 BUTRK.	14	20' 10 cu.	95'
4+84 BUTRK.	14	118' 26 cu.	55' 12'
4+90	6	118' 51 cu.	55' 20'
5+0	10	160' 51 cu.	55' 20'
5+10	10	150' 33 cu.	55' 12'
5+16 BUTRK.	6	150' 55 cu.	55'
5+16 BUTRK.	6	170' 25 cu.	60' 10'
5+20	4	170' 11 cu.	60' 41'
5+40	20	130' 44 cu.	45' 17'
5+50	10	110' 68 cu.	45' 33'
5+75	25	39'	24'
		482 cu.	342 cu.
		6-13-83 RF	6-13-83 RF



STA	DIST	AREA	VOL.
4+25	25	54'	14 cu.
4+50	25	54'	20 cu.
4+70	20	50'	20 cu.
4+84	14	50'	13 cu.
4+90	6	52'	61 cu.

(BOTH SIDES OF RIVER)
STA = BUT. GR. AND AM.
STONE FILL & CHANN. EXCAV.

660

660 EAST SIDE

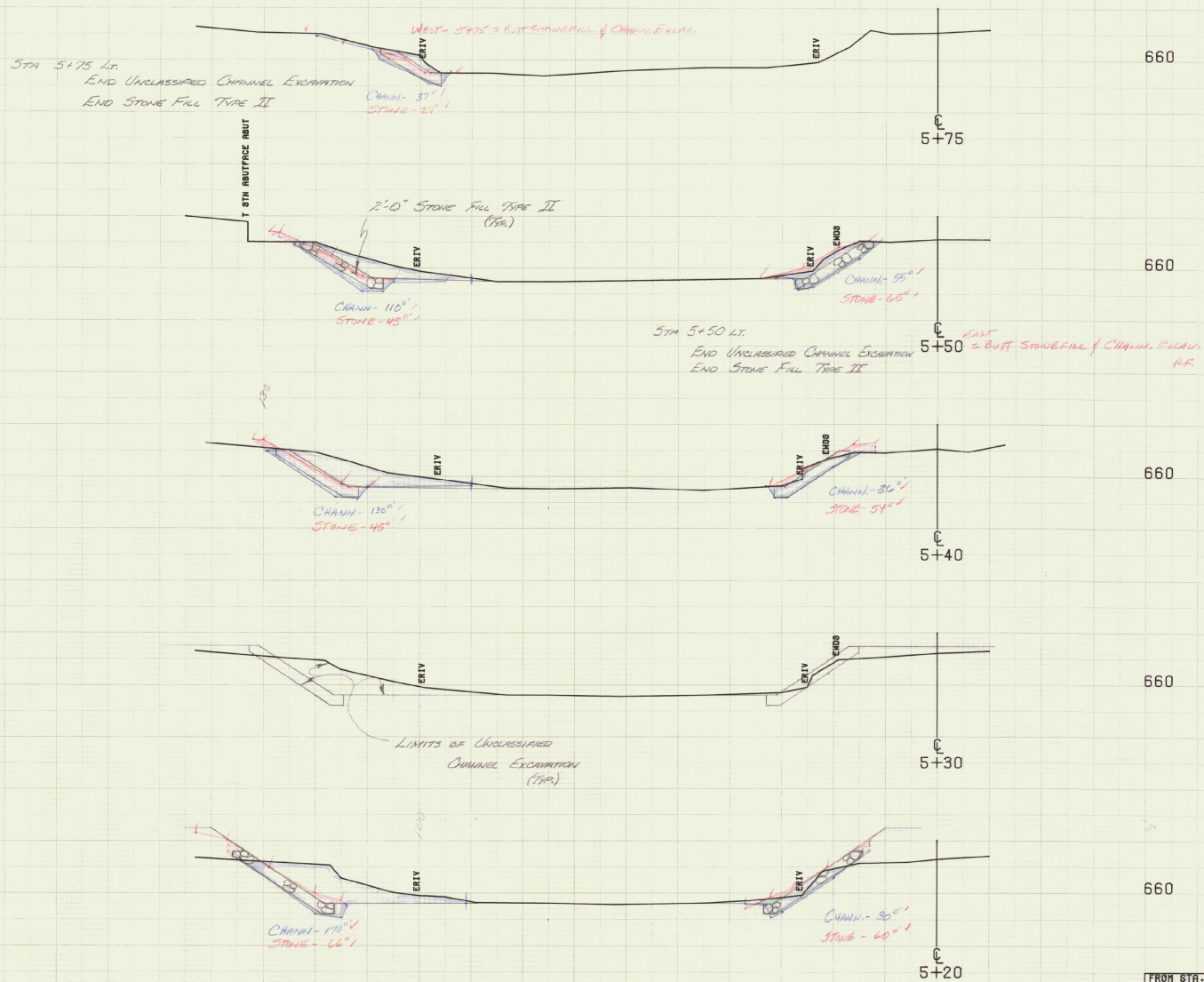
STA	DIST	CHANN. EXCAV. AREA VOL.	STRUCTURE AREA VOL.
2+75	25	5'	18'
3+0	25	14'	23'
3+25	25	11 cu.	18 cu.
3+50	25	13 cu.	29 cu.
3+75	25	15 cu.	43 cu.
4+0	25	15 cu.	45 cu.
4+25	25	173 cu.	75 cu.
4+50	25	213 cu.	90 cu.
4+70	20	53 cu.	34 cu.
4+84	14	33 cu.	31 cu.
4+90	6	30 cu.	39 cu.
4+90 BUTRK.	6	40'	55'
4+90	6	40'	55'
5+0	10	27'	45'
5+10	10	40'	55'
5+16 BUTRK.	6	40'	55'
5+16 BUTRK.	6	40'	55'
5+20	4	40'	55'
5+20	4	40'	55'
5+40	20	34'	54'
5+50	10	34'	54'
5+75	25	35'	65'
		6804'	561 cu.
		6-13-83 RF	6-13-83 RF

(BOTH SIDES OF RIVER)
4+84 = BUT. GR. AND AM.
STONE FILL & CHANN. EXCAV.

660

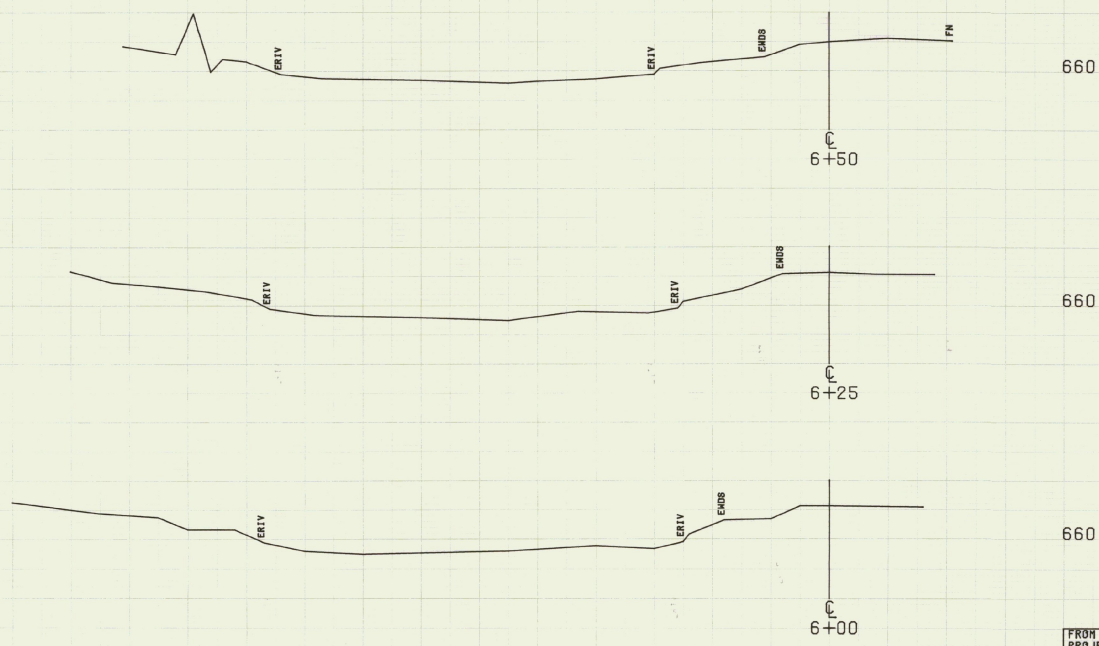
FROM STA. 4+70 TO STA. 5+10
PROJECT NAME WAITSFIELD CHAN
NO. BR21446(8)
SURVEYED BY COUTURE
PLOTTED 02/25/01
OCT 1990
SHEET 28 OF 51 SHEETS

SCALE 1" = 10 FEET



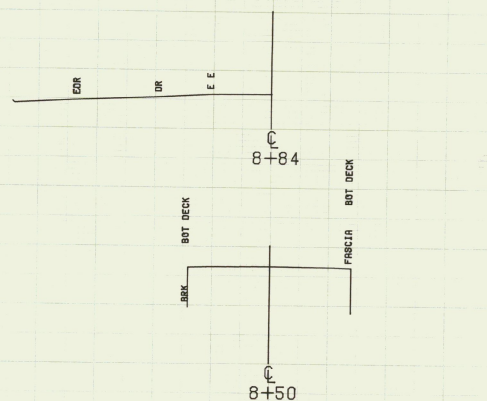
SCALE 1" = 10 FEET

FROM STA. 5+20	TO STA. 5+75
PROJECT NAME	WAITSFIELD CHAN
NO.	BR21448(8)
SURVEYED BY	COUTURE
SHEET 29 OF 51	PLOTTED 02/25/81
	OCT 1980

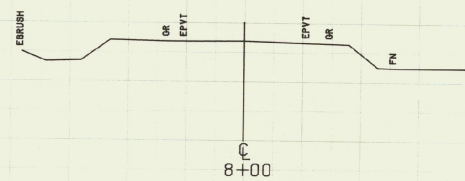


SCALE 1" = 10 FEET

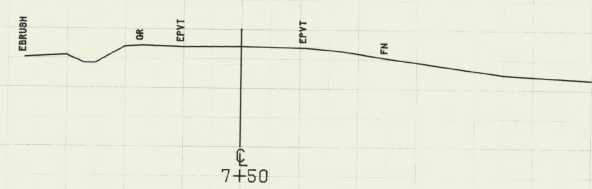
FROM STA. 6+00	TO STA. 6+50
PROJECT NAME	WAITSFIELD CHAN
NO.	BR21448(8)
SURVEYED BY	COUTURE
SHEET 30 OF 57 SHEETS	PLOTTED 02/25/81 OCT 1980



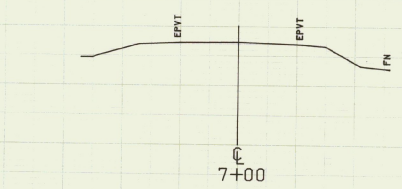
670



670



670

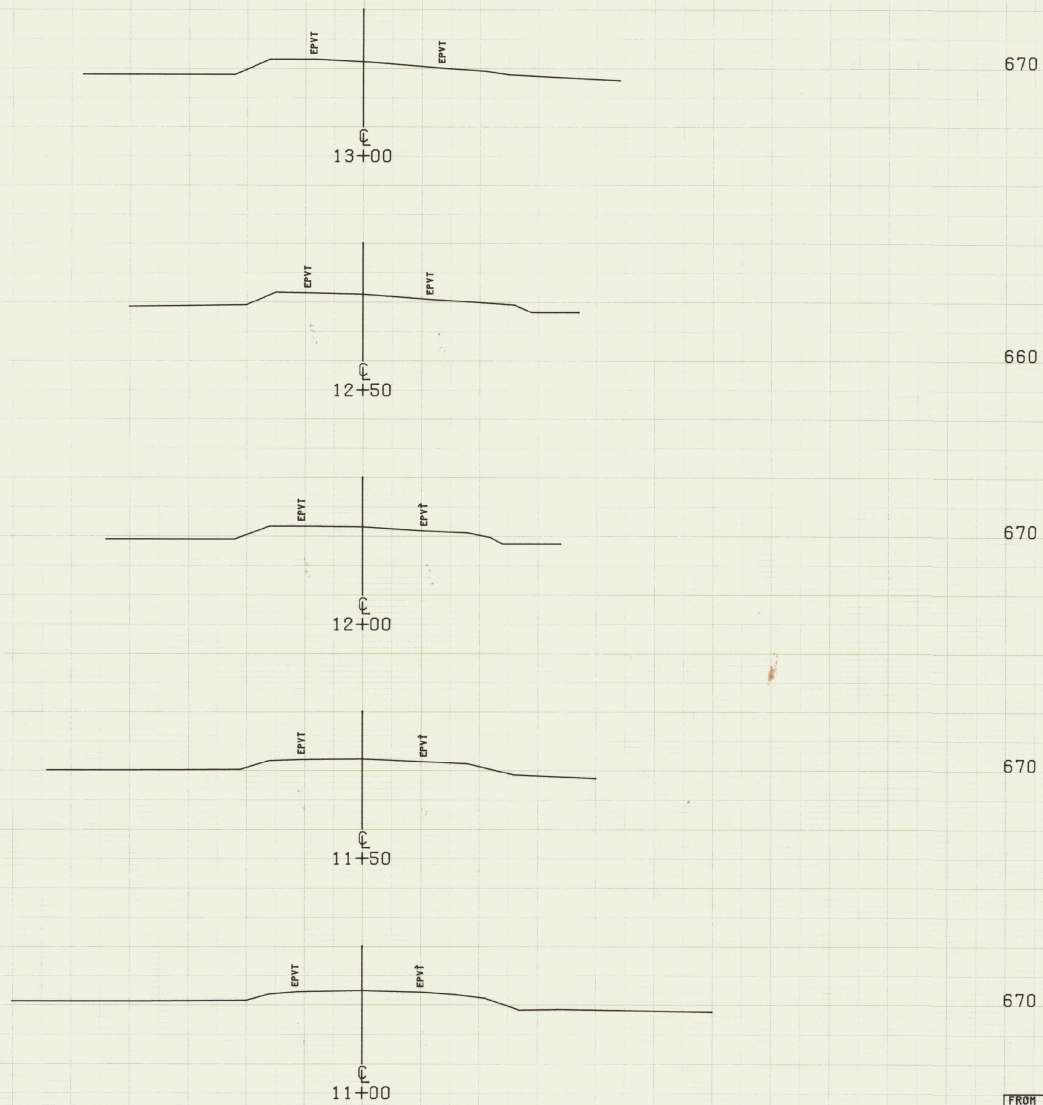


670

670

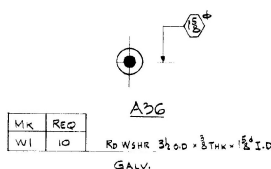
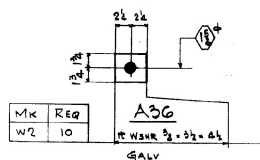
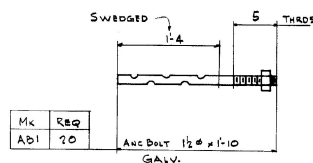
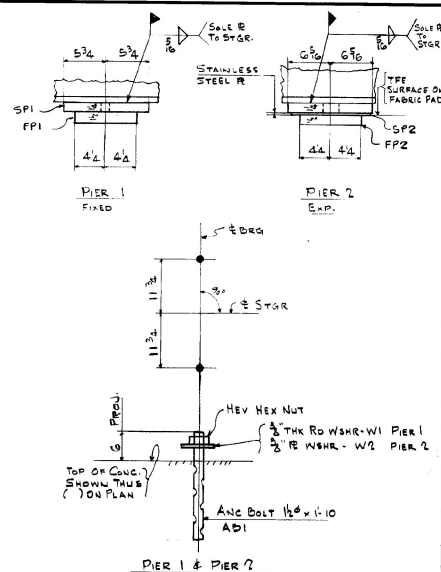
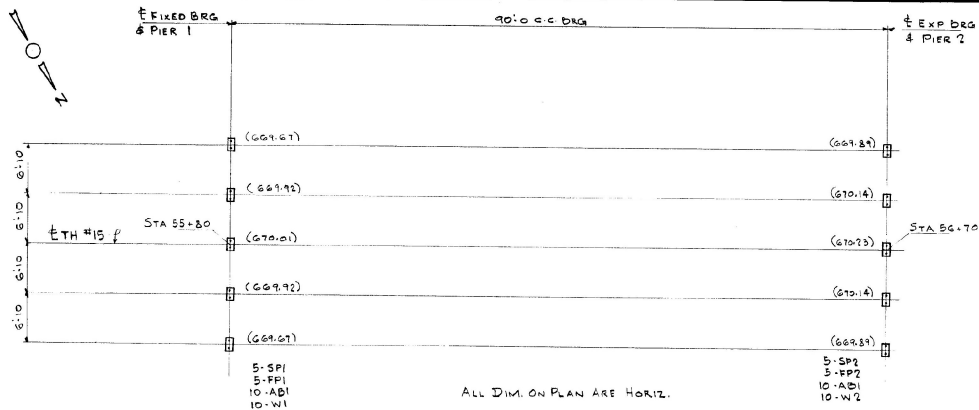
FROM STA. 7+00 TO STA. 8+84
 PROJECT NAME WAITSFIELD VT100
 NO. BRZ1446(8) PLOTTED 02/25/81
 SURVEYED BY COUTURE OCT 1980
 SHEET 51 OF 51 SHEETS

SCALE 1" = 10 FEET



SCALE 1" = 10 FEET

FROM STA. 11+00	TO STA. 13+00
PROJECT NAME	WAITSFIELD VT100
NO. BR21446(8)	PLOTTED 02/25/81
SURVEYED BY	COUTURE
SHEET 3 OF 5	SHEETS OCT 1980



NOTE:
BRG DEVICE ASSEMBLY, SHALL IN ADDITION TO THE TYPE D CERTIFICATION REQ'D IN SECT. 701-10 CERTIFY THAT UNITS SUPPLIED ARE DESIGNED TO MEET THE LOADING REQUIREMENTS INDICATED BELOW.
LONGITUDINAL - 10K
TRANSVERSE - 10K
BEARING - 160K

MAT. A368 (un)

PAINT NOTES:

1. Surface Protection -- Blast Clean per Vermont State Spec. 506.47(b)2.

SHOP NOTES:

1. Structural Steel to be fabricated in accordance with the State of Vermont Department of Highways "Standard Specifications for Highway and Bridge Construction" dated March 1976 and its latest revisions and the AASHTO Standard Specs for Highway Bridges dated 1977 and its latest revisions.

BILL OF MATERIAL

NO.	QTY	UNIT	DESCRIPTION	LENGTH	WEIGHT
				FT.	LB.
			SOLE PL		
5	SP1	1/4" x 11 1/2"		2.4	
5	SP2	1/4" x 12 1/2"		2.4	
5	Q	6" x 12 1/2"		1.8	STAINLESS STEEL
			FABRIC PADS		
5	FP1	1 1/2" x 3 1/2"		1.7	
5	FP2	1 1/2" x 3 1/2"		1.7	
			ANC BOLTS		
20	AB1	1/2"		1.10	GALV.
			RD WSHRS		
10	W1	3/8" x 3/4" x 1/2" I.D.			GALV.
			R WSHRS		
10	W2	3/8" x 3/4"		0.43	GALV.

JOB NO. 82-2856-50 SHEET NO. 116

BILL OF MATERIAL

NO.	QTY	UNIT	DESCRIPTION	LENGTH	WEIGHT
				FT.	LB.

REVISION RECORD

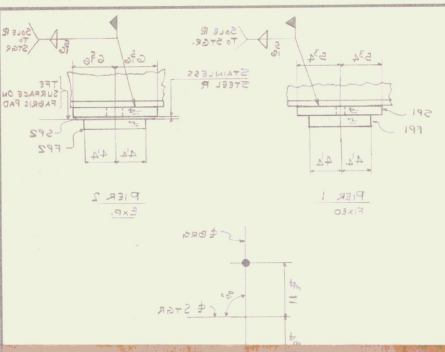
DATE	REV. #	BY	REVISION

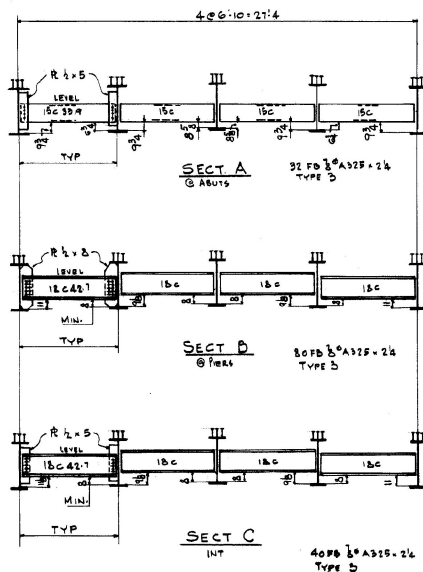
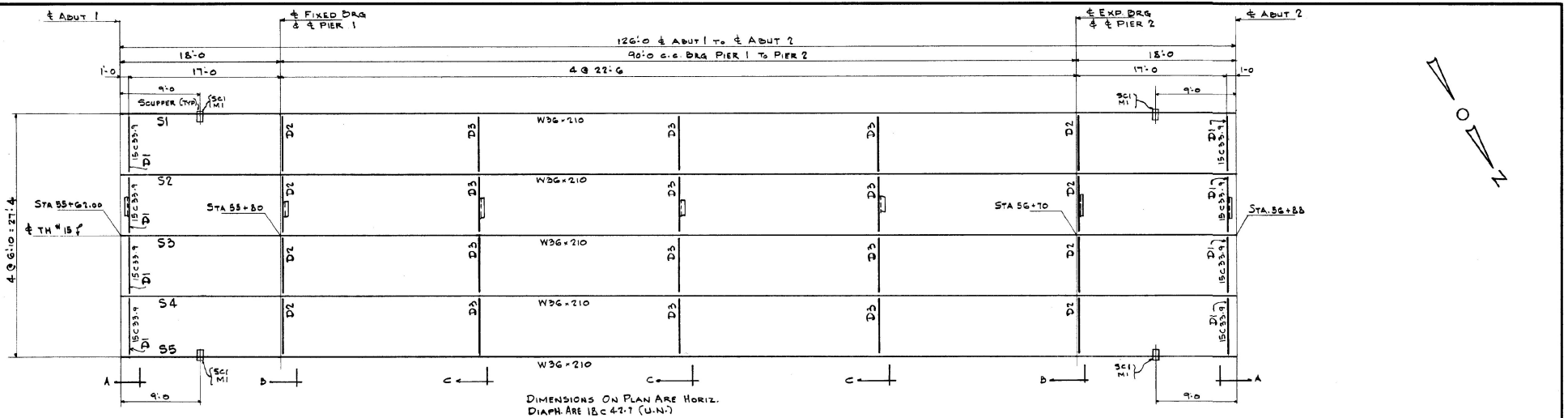
VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VERMONT

Proj. No. 82-1826(0)

DESIGNED BY	T	DATE	10-8-82	PROJECT	WAITFIELD	NO.	FOR	DATE
CHECKED BY	S			LOCATION	T.H. 15 OVER MAD RIVER WAITFIELD, VT.	5	APPL	11/1/82
				CUSTOMER	WINTERSET INC.	3	APPL	11/1/82
						5	FIELD	11/1/82
						3	FIELD	11/1/82
						2	STATE	11/1/82

BILL OF MATERIALS									
ITEM	QTY	DESCRIPTION	UNIT	PRICE	TOTAL	REMARKS	DATE	BY	CHK
1	1	1/2" x 11" x 15' 6"	LB	192	192				
2	1	1/2" x 11" x 15' 6"	LB	192	192				
3	1	1/2" x 11" x 15' 6"	LB	192	192				
4	1	1/2" x 11" x 15' 6"	LB	192	192				
5	1	1/2" x 11" x 15' 6"	LB	192	192				
6	1	1/2" x 11" x 15' 6"	LB	192	192				
7	1	1/2" x 11" x 15' 6"	LB	192	192				
8	1	1/2" x 11" x 15' 6"	LB	192	192				
9	1	1/2" x 11" x 15' 6"	LB	192	192				
10	1	1/2" x 11" x 15' 6"	LB	192	192				
11	1	1/2" x 11" x 15' 6"	LB	192	192				
12	1	1/2" x 11" x 15' 6"	LB	192	192				
13	1	1/2" x 11" x 15' 6"	LB	192	192				
14	1	1/2" x 11" x 15' 6"	LB	192	192				
15	1	1/2" x 11" x 15' 6"	LB	192	192				
16	1	1/2" x 11" x 15' 6"	LB	192	192				
17	1	1/2" x 11" x 15' 6"	LB	192	192				
18	1	1/2" x 11" x 15' 6"	LB	192	192				
19	1	1/2" x 11" x 15' 6"	LB	192	192				
20	1	1/2" x 11" x 15' 6"	LB	192	192				
21	1	1/2" x 11" x 15' 6"	LB	192	192				
22	1	1/2" x 11" x 15' 6"	LB	192	192				
23	1	1/2" x 11" x 15' 6"	LB	192	192				
24	1	1/2" x 11" x 15' 6"	LB	192	192				
25	1	1/2" x 11" x 15' 6"	LB	192	192				
26	1	1/2" x 11" x 15' 6"	LB	192	192				
27	1	1/2" x 11" x 15' 6"	LB	192	192				
28	1	1/2" x 11" x 15' 6"	LB	192	192				
29	1	1/2" x 11" x 15' 6"	LB	192	192				
30	1	1/2" x 11" x 15' 6"	LB	192	192				
31	1	1/2" x 11" x 15' 6"	LB	192	192				
32	1	1/2" x 11" x 15' 6"	LB	192	192				
33	1	1/2" x 11" x 15' 6"	LB	192	192				
34	1	1/2" x 11" x 15' 6"	LB	192	192				
35	1	1/2" x 11" x 15' 6"	LB	192	192				
36	1	1/2" x 11" x 15' 6"	LB	192	192				
37	1	1/2" x 11" x 15' 6"	LB	192	192				
38	1	1/2" x 11" x 15' 6"	LB	192	192				
39	1	1/2" x 11" x 15' 6"	LB	192	192				
40	1	1/2" x 11" x 15' 6"	LB	192	192				
41	1	1/2" x 11" x 15' 6"	LB	192	192				
42	1	1/2" x 11" x 15' 6"	LB	192	192				
43	1	1/2" x 11" x 15' 6"	LB	192	192				
44	1	1/2" x 11" x 15' 6"	LB	192	192				
45	1	1/2" x 11" x 15' 6"	LB	192	192				
46	1	1/2" x 11" x 15' 6"	LB	192	192				
47	1	1/2" x 11" x 15' 6"	LB	192	192				
48	1	1/2" x 11" x 15' 6"	LB	192	192				
49	1	1/2" x 11" x 15' 6"	LB	192	192				
50	1	1/2" x 11" x 15' 6"	LB	192	192				
51	1	1/2" x 11" x 15' 6"	LB	192	192				
52	1	1/2" x 11" x 15' 6"	LB	192	192				
53	1	1/2" x 11" x 15' 6"	LB	192	192				
54	1	1/2" x 11" x 15' 6"	LB	192	192				
55	1	1/2" x 11" x 15' 6"	LB	192	192				
56	1	1/2" x 11" x 15' 6"	LB	192	192				
57	1	1/2" x 11" x 15' 6"	LB	192	192				
58	1	1/2" x 11" x 15' 6"	LB	192	192				
59	1	1/2" x 11" x 15' 6"	LB	192	192				
60	1	1/2" x 11" x 15' 6"	LB	192	192				
61	1	1/2" x 11" x 15' 6"	LB	192	192				
62	1	1/2" x 11" x 15' 6"	LB	192	192				
63	1	1/2" x 11" x 15' 6"	LB	192	192				
64	1	1/2" x 11" x 15' 6"	LB	192	192				
65	1	1/2" x 11" x 15' 6"	LB	192	192				
66	1	1/2" x 11" x 15' 6"	LB	192	192				
67	1	1/2" x 11" x 15' 6"	LB	192	192				
68	1	1/2" x 11" x 15' 6"	LB	192	192				
69	1	1/2" x 11" x 15' 6"	LB	192	192				
70	1	1/2" x 11" x 15' 6"	LB	192	192				
71	1	1/2" x 11" x 15' 6"	LB	192	192				
72	1	1/2" x 11" x 15' 6"	LB	192	192				
73	1	1/2" x 11" x 15' 6"	LB	192	192				
74	1	1/2" x 11" x 15' 6"	LB	192	192				
75	1	1/2" x 11" x 15' 6"	LB	192	192				
76	1	1/2" x 11" x 15' 6"	LB	192	192				
77	1	1/2" x 11" x 15' 6"	LB	192	192				
78	1	1/2" x 11" x 15' 6"	LB	192	192				
79	1	1/2" x 11" x 15' 6"	LB	192	192				
80	1	1/2" x 11" x 15' 6"	LB	192	192				
81	1	1/2" x 11" x 15' 6"	LB	192	192				
82	1	1/2" x 11" x 15' 6"	LB	192	192				
83	1	1/2" x 11" x 15' 6"	LB	192	192				
84	1	1/2" x 11" x 15' 6"	LB	192	192				
85	1	1/2" x 11" x 15' 6"	LB	192	192				
86	1	1/2" x 11" x 15' 6"	LB	192	192				
87	1	1/2" x 11" x 15' 6"	LB	192	192				
88	1	1/2" x 11" x 15' 6"	LB	192	192				
89	1	1/2" x 11" x 15' 6"	LB	192	192				
90	1	1/2" x 11" x 15' 6"	LB	192	192				
91	1	1/2" x 11" x 15' 6"	LB	192	192				
92	1	1/2" x 11" x 15' 6"	LB	192	192				
93	1	1/2" x 11" x 15' 6"	LB	192	192				
94	1	1/2" x 11" x 15' 6"	LB	192	192				
95	1	1/2" x 11" x 15' 6"	LB	192	192				
96	1	1/2" x 11" x 15' 6"	LB	192	192				
97	1	1/2" x 11" x 15' 6"	LB	192	192				
98	1	1/2" x 11" x 15' 6"	LB	192	192				
99	1	1/2" x 11" x 15' 6"	LB	192	192				
100	1	1/2" x 11" x 15' 6"	LB	192	192				



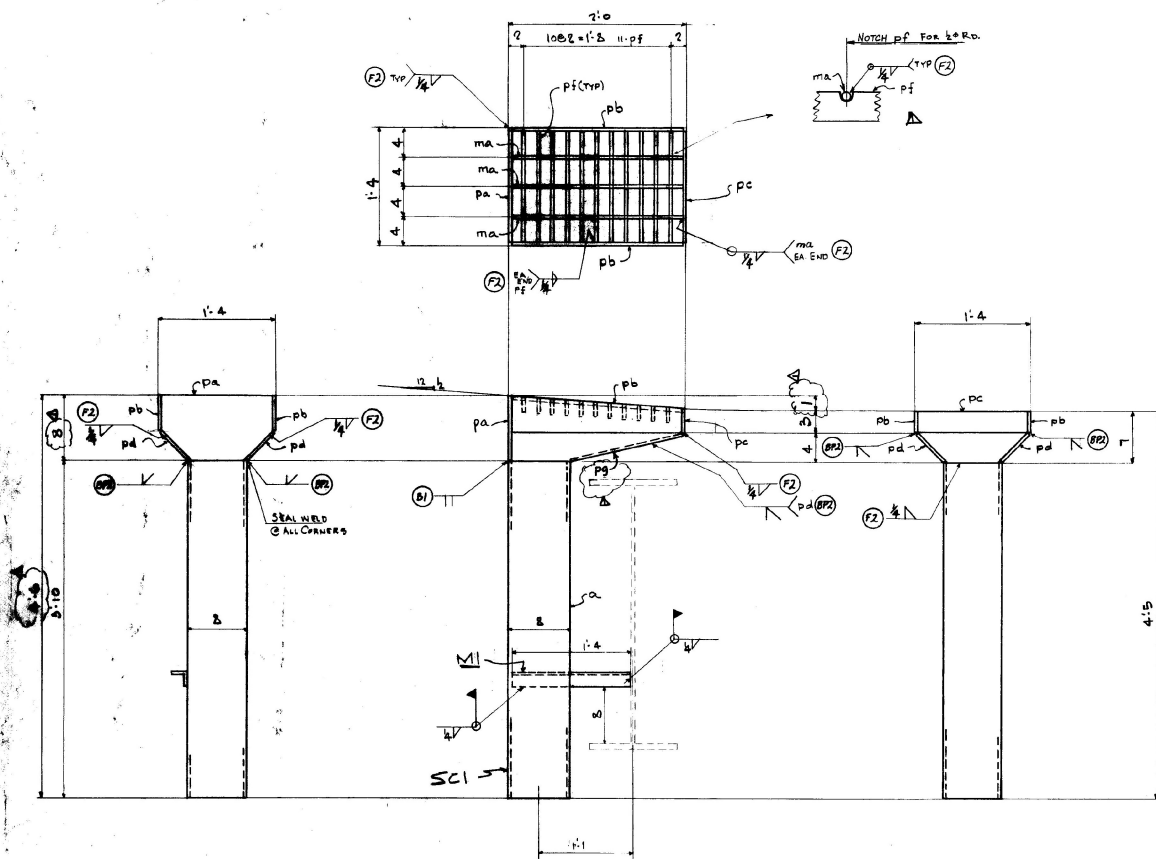


MAT'L A588 (U4) ON DETLS

Job 496-586
Home 868-2182

LIST OF DWGS		FIELD BOLTS	
SHT #	DESCRIPTION	QTY	DESCRIPTION
E1	ANCHOR PLAN & DETLS	360	3/4" A325-24 (TYPE B)
E2	ERECTION PLAN		
1	STG & DETLS		
2	STG & DIAPH DETLS		
3	SCUPPER DETLS	360	3/4" HRW (TYPE B)
			(LIMITED ON SHT 3)

REVISION RECORD			
DATE	REV #	BY	REVISION
10/20/82	1	AT	SHEAR STUDS
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VERMONT			
Project No. BR2-10-6(0)			
DESIGNED BY	DATE	PROJECT	PRINT RECORD
CHECKED BY	10-8-82	WAITSFIELD	
NOTES		LOCATION: TH'S OVER MAD RIVER WAITSFIELD, VT.	
		CUSTOMER: WINTERSET INC.	
		ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION	
		JOB NO.: 82-3656	
		SHEET: E2	



4- SCUPPERS - SCI } GALV.
4- MI (NO PAINT)

A3G (UN)		BILL OF MATERIAL	
NO.	MARK	DESCRIPTION	WEIGHT
4	SCI	SCUPPERS	
4	a	TUBS 8' x 4' x 78" B1	396
4	pa	8' x 4' x 78" B1	396
8	pb	8' x 4' x 78" B1	396
4	pc	8' x 4' x 78" B1	396
4	pd	8' x 4' x 78" B1	396
44	pf	8' x 4' x 78" B1	193
4	pg	8' x 4' x 78" B1	72
12	ma	8' x 4' x 78" B1	16
			8.57
4	MI	2' x 2' x 1/2"	21
			8.72
FIELD BOLTS			
360		1/2" x 1325 BOLT TYPE III	0.24
360		1/2" x 1325 BOLT TYPE III	0.24
JOB NO. 82-5856 SHEET NO. 3-1			
BILL OF MATERIAL		REVISION RECORD	
NO.	MARK	DESCRIPTION	WEIGHT
DATE REV. BY REVISION			
10/19/82 AT PER APP'L			
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VERMONT			
PROJECT WAITFIELD			
LOCATION 1/2 MILE OVER MAD RIVER WAITFIELD VT			
CUSTOMER WINTERSET INC			
DATE 10-8-82			
NO. AS NOTED			
MARKET STATE OF VT. AGENCY OF TRANSPORTATION			
JOB NO. 82-5856			
SHEET NO. 3-1			

INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF WAITSFIELD
COUNTY OF WASHINGTON

ROUTE NO: T.H. 15 (CL.3) BRIDGE NO: 25

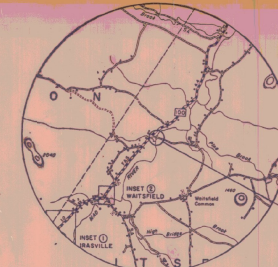
PROJECT LOCATION: This project begins approximately 980 feet southeasterly of the intersection of Vt 100 & T.H. 15 and extends 900' northwesterly.

PROJECT DESCRIPTION: This project replaces the existing structure with a new rolled beam w/R.C. deck structure on a new northerly location w/approx. 850' of upgraded approach roadway and necessary channel work.

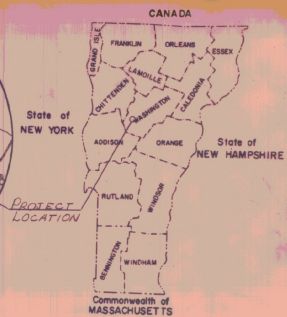
LENGTH OF STRUCTURE: 128.0 FEET
LENGTH OF PARTICIPATION ROADWAY: 772.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: FEET
LENGTH OF PROJECT: 900.0 FEET
LENGTH OF R.O.W. PROJECT: 997 FEET • 0.189 MILES

TRAFFIC DATA

1982 AADT = 500
1982 DHV = 70
1992 AADT = 580
1992 DHV = 80
D = 56%
T = 6%
DESIGN SPEED = 30 MPH



LOCATION MAP
(TRACED FROM COUNTY MAP)



GENERAL NOTES

R.O.W. PLANS

BEGIN R.O.W. PROJECT BRZ 1446(8)
STA. 50+00 CL

BEGIN PROJECT
STA. 50+50
CONSTRUCT
SATISFACTORY
APPROACH

END BRIDGE
STA. 56+89

END R.O.W. PROJECT BRZ 1446(8)
STA. 59+97 RT.

END PROJECT
STA. 59+50
CONSTRUCT
SATISFACTORY
APPROACH

M. POT. 55+50.00 =
CHAN. POT. 5+00.00
Δ = 90°

M. POT. 60+27.88 =
Vt 100 POT. 10+00.00
Δ = 78° 12' RT

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	○
TELEPHONE POLE	○
TREES	○*
CONTROL OF ACCESS	---
PROPERTY LINE	---
R.O.W. TAKING LINE	---
SLOPE, RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	1156.3
HORIZONTAL	N/A

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED: <i>S. J. O'Connell</i>	DATE: FEB 15 1982
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED: _____	DATE: _____
DIVISION ADMINISTRATOR	
PROJECT WAITSFIELD	PROJECT NO. BRZ-1446(8)
SHEET 1 OF 7 SHEETS	

APPROVED: *W. R. Jones*
CHIEF, PROPERTY ADMINISTRATION
DATE: 2-16-82

40

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	TREMBLAY, JOSEPH E. & SALLY J.	5	50+00 LT. 50+00 LT. 50+33 LT.	52+28 LT. 53+28 LT. 52+70 LT.	0.03 A±		CONST. EASE. (T) 0.07 A± SLOPE (P) 0.05 A±	WDOE	6-25-82	WAITSFIELD	37	505-01	1480 S.F.± 3050 S.F.± 2355 S.F.±
1B		5	50+00 RT.	50+73 RT.	0.01 A±								511 S.F.±
1C		6,7	56+14 RT. 56+14 RT. 56+40 RT. 57+40 RT. 58+50 RT.	59+07 RT. 59+00 RT. 59+00 RT. 59+00 RT.	0.34 A±		CONST. EASE. (T) 0.04 A± CHANNEL (P) 0.01 A± CONST. EASE. (T) 0.01 A± DRIVE (T)						1800 S.F.± 500 S.F.± 500 S.F.±
2A	SPAULDING, DONALD E. & LAURIE J.	5,6	50+34 RT. 50+25 RT. 53+00 RT. 54+72 RT. 55+00 RT.	50+27 LT. 51+35 RT. 56+14 RT. 55+00 RT.	0.0 A±		CONST. EASE. (T) 0.01 A± CONST. EASE. (T) 0.00 A± DRIVE (T) CHANNEL (P) 110 S.F.±	WDOE	7-29-82	WAITSFIELD	38	8-0	535 S.F.± 2830 S.F.±
2B		6	56+25 LT. 56+45 LT.	56+71 LT. 56+71 LT.			CONST. EASE. (T) 0.01 A± CHANNEL (P) 16 S.F.±						540 S.F.±
2C		6	57+25 LT.	58+00 LT.									RIGHT OF WAY
3A	KERR, WILLIAM T. & COLLEEN P.	6	55+30 LT. 55+45 LT.	55+50 LT. 55+55 LT.			CONST. EASE. (T) 360 S.F.± SLOPE (T) 75 S.F.±	WDOE	7-8-82	WAITSFIELD	37	507-0	
3B		6	55+70 LT.										RIGHT OF WAY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	#	Parcel # 4 CREEDON, Corrected Area OF CHANNEL Rt. (P) To 300 S.F.± Per C.O. # 5287	3-17-82	BAM	JOP
2	3,6	Parcel # 3A KERR, Changed SLOPE RT. (P) TO SLOPE RT. (T) Per C.O. # 5288	3-17-82	BAM	JOP
3	3	Parcel 1B TREMBLAY, Corrected Tabular Area To 0.01 A± ~ 511 S.F.± Per C.O. # 5289	3-17-82	BAM	JOP
4	3,5,6	Parcel # 2A Spaulding, Removed Drive at 52+00 Rt., Added Drive at 54+72 Rt., and deleted slope Rt. (T) at 54+15-55+00 Rt. Per C.O. # 5294	4-1-82	NWJ	T.P.M.
5	3	Parcel # 2A Spaulding Redced construction easement from 50+25 Rt. ~ 52+40 Rt. 0.03 A± (250 S.F.) TO 50+25 Rt. ~ 51+35 Rt. 0.01 A± (535 S.F.±) Per C.O. # 5351	5-11-82	Kdp	JOP
6	4,6	Parcel # 4 CREEDON CHANGED AREA OF CONST. EASE. FROM 4.03 A± TO 0.0 A± AND ALSO CHANNEL RT. FROM 300 S.F.± TO 0.0 A± 1760 S.F.± Per C.O. # 5353	6-4-82	JDP	T.P.M.

MADE BY: BBB DATE 2-18-82
CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DITCH RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
① — DEMOLITION OR REMOVAL
W — WATER SOURCES

— — — — — PRESENT R.O.W.
/// — — — — — TAKING WITHOUT ACCESS
— P — — — — — TAKING WITHOUT ACCESS ALONG PROPERTY LINES
— L — — — — — TAKING WITH ACCESS
(P) — — — — — PERMANENT EASEMENT
(T) — — — — — TEMPORARY EASEMENT

LEGEND
----- CONST. EASE. ----- CONST. EASEMENT
----- SR ----- SR ----- SLOPE RIGHTS
P ----- L ----- PROPERTY LINE
----- Δ ----- Δ ----- TOP OF CUT
----- ○ ----- ○ ----- TOE OF SLOPE

APPROVED Thomas J. Mayo DATE 2-16-82
CHIEF OF PLANS & DES.

PROJECT WAITSFIELD
NO. BRZ 1448(8)
SHEET 3 OF 7

41

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT-OF-WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

[illegible]

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: MDJ DATE 2-10-02

CHECKED BY: _____ DATE _____

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
⬡ — DEMOLITION OR
REMOVAL
W — WATER SOURCES

-----	PRESENT	R.O.W.
---/---/---	TAKING WITHOUT ACCESS	
---/---/---	P └---	TAKING WITHOUT ACCESS ALONG PROPERTY LINES
-----	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

-----CONST. EASE-----CONST. EASEMENT
 -----SR-----SR-----SLOPE RIGHTS
 -----P-----P-----PROPERTY LINE
 -----Δ-----Δ-----TOP OF CUT
 -----○-----○-----TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 2-16-82
CHIEF OF PLANS & BATTLES

PROJECT WAITSFIELD

NO. BRZ 1446(8)

SHEET 4 OF 7

42