

INDEX OF SHEETS

1. TITLE SHEET
2. SURVEY LAYOUT
3. PROFILE
4. BRIDGE QUANTITY SHEET
- 5-6. R.O.W. PLAN & LAYOUT SHEETS
7. PLAN AND ELEVATION
8. BORING SHEET
9. GENERAL NOTES
10. SLAB DETAILS
11. ABUTMENT NO. 1 DETAILS
12. ABUTMENT NO. 2 DETAILS
13. WINGWALL DETAILS
14. REINFORCING STEEL SCHEDULE
- 15-19. T.H. 5 CROSS-SECTIONS
- 20-21. T.H. II CROSS-SECTIONS
- 22-25. CHANNEL CROSS-SECTIONS

STANDARDS

E100	5-26-89 R
E101	10-30-87
E106	1-23-89 R
E107	4-29-88 R
E107a	9-10-87
G-1	10-31-85 R
G-1d	10-31-85 R
SB-R6-82	12-13-84 R
T-1	12-7-76 R
T-2	7-5-72

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF DANBY
COUNTY OF RUTLAND
ROUTE NO: TH 5, CL III

PROJECT LOCATION: ON TH5, BEGINNING APPROXIMATELY 0.1 MILE NORTHERLY OF IT'S INTERSECTION WITH TH I.

PROJECT DESCRIPTION: REMOVAL OF EXISTING STRUCTURE; CONSTRUCTION OF NEW REINFORCED CONCRETE ABUTMENTS AND SLAB WITH NECESSARY ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 32.0 FEET
LENGTH OF PARTICIPATION ROADWAY: 218.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: 0.0 FEET
LENGTH OF PROJECT: 250.0 FEET

GENERAL NOTES

SEE SHEET NO. 9

LOAD RATING (TONS)

STRESS LEVELS	TRUCK									
	H	HS	352	6 AXLE 34, STR. 44, STR. 54, SEMI						
INVENTORY	25	4L I								
POSTED	37	60	75		44	45	75			
OPERATING		71	89	82	52	54				

RECORD PLANS

CONTRACTOR F.W. WHITCOMB CONST.

RESIDENT ENGINEER DANIEL G. CADIZ

CONSTRUCTION BEGAN 04-03-91

CONSTRUCTION COMPLETED 10-23-91

RECORD PLANS BY RICHARD RUSSELL

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By *Daniel G. Cadiz* Resident Engineer

Date 6-15-91

NOTE: Any further information concerning final quantities or other details relative to this project may be found in microfilm in Central Files.

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	---
EDGE OF SLOPE	---

TRAFFIC DATA

1990 ADT = 40

1990 DHV = 10

T < 1%

D = 100%

DESIGN SPEED = 20 MPH

DATUM

VERTICAL ASSUMED
HORIZONTAL NA

BEGIN PROJECT REV 22.00

CONSTRUCT SATISFACTORY
APPROACH

SURV TRAV POT
STA 23.09.49

CHAN STA 5.00

SURV TRAV PI
STA 22.33.54

SL 10.00

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

SURV TRAV PI
STA 21.46.11

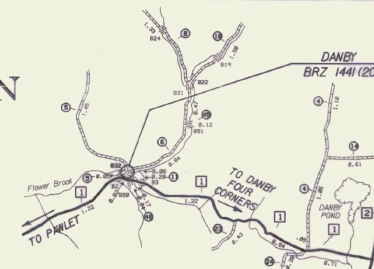
REV POT

STA 21.46.11

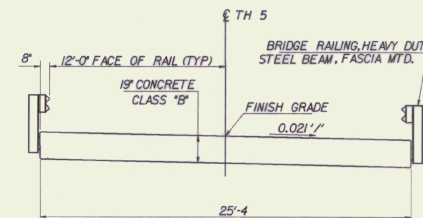
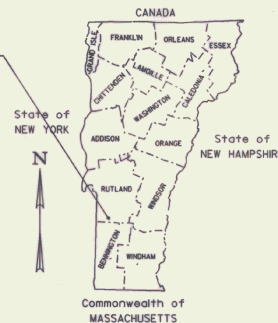
SURV TRAV PI
STA 21.46.11

REV POT

STA 21.46.11

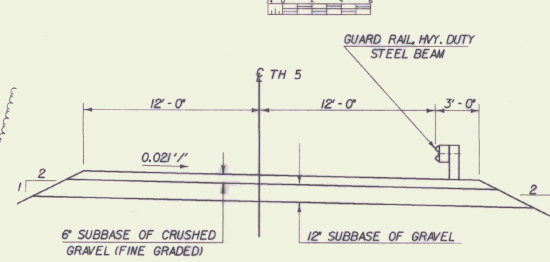


LOCATION MAP
(TRACED FROM TOWN MAP)



TYPICAL BRIDGE SECTION

SCALE 1/4" = 1'-0"



TYPICAL ROADWAY SECTION

SCALE 1/4" = 1'-0"

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, FOR USE ON THESE PROJECTS, INCLUDING ALL SUBSEQUENT PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED *Richard Russell* DATE *6/15/91*

DIRECTOR OF PLANNING & PRECONSTRUCTION

PROJECT DANBY

PROJECT NO. BRZ 1441 (20)

SHEET 1 OF 25 SHEETS

EXISTING BRIDGE DATA

BRIDGE WIDTH: 13'-0"
ROADWAY: 11'-0"
CLEAR SPAN: 30'-0"
BRIDGE LENGTH: 32'-6" BEAM
CLEAR HEIGHT: 11'-0"
STRUCTURE IS A TWO STEEL BEAM
BRIDGE WITH CONCRETE DECK.
SUBSTRUCTURE IS CONCRETE.

BEGIN PROJECT REV 22 + 00
CONSTRUCT SATISFACTORY APPROACH

NEW 16' X 18' CSB (60x60) INLET & OUTLET
STONE LINED DITCHES @ INLET & OUTLET
REV 22 + 47.55 LT
REV 23 + 09.25

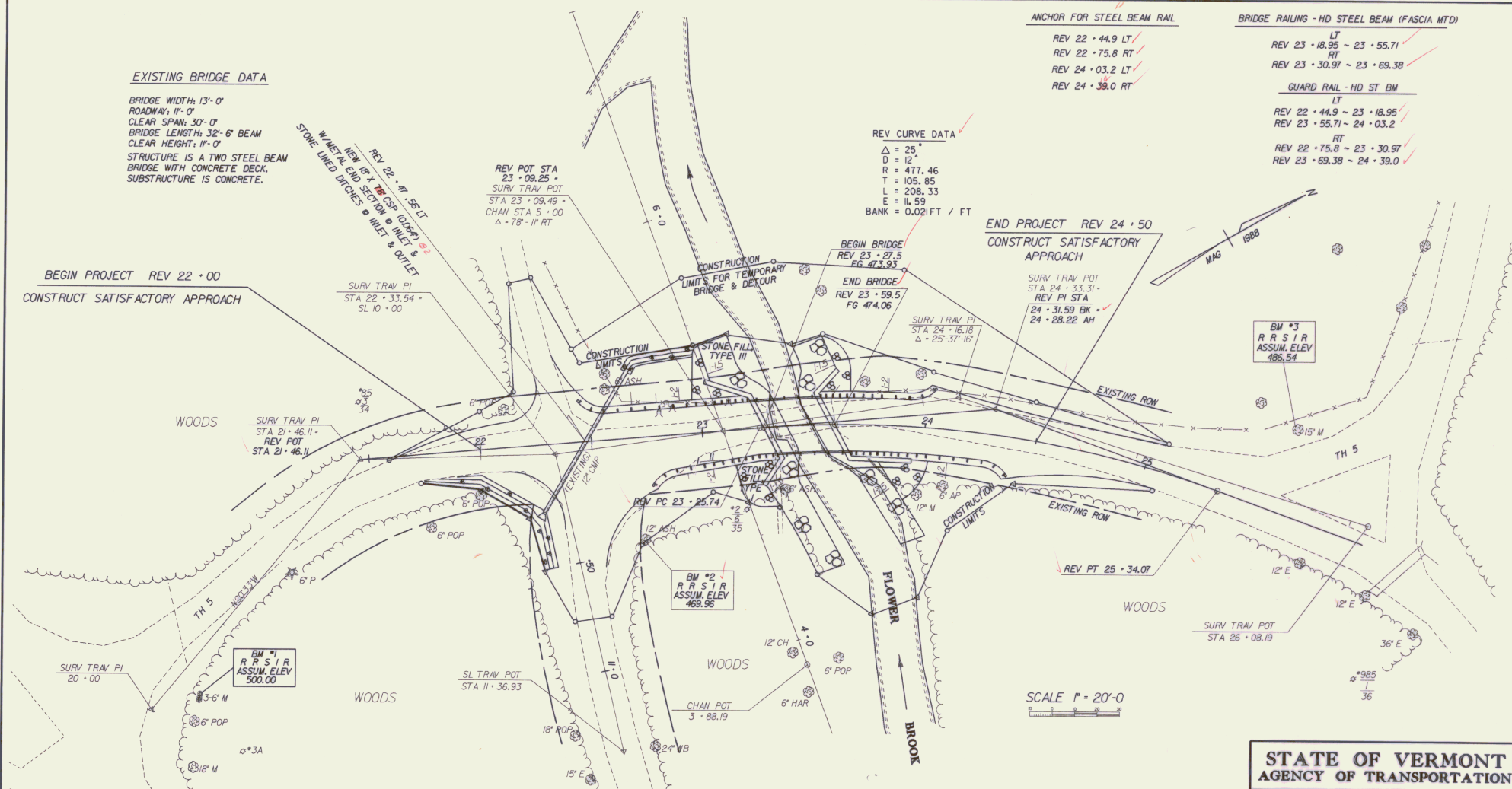
REV POT STA 23 + 09.25
SURV TRAV POT
STA 23 + 09.49
CHAN STA 5 + 00
Δ = 78' - 11" RT

REV CURVE DATA
Δ = 25°
D = 12°
R = 477.46
T = 105.85
L = 208.33
E = 14.59
BANK = 0.021 FT / FT

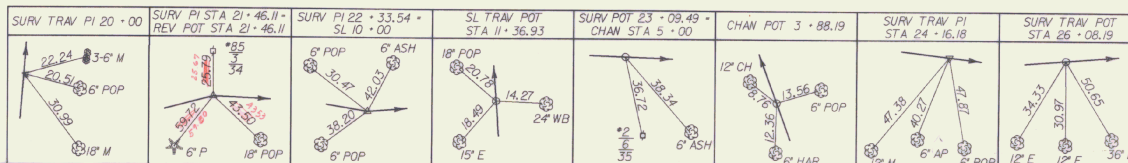
END PROJECT REV 24 + 50
CONSTRUCT SATISFACTORY
APPROACH

ANCHOR FOR STEEL BEAM RAIL
REV 22 + 44.9 LT
REV 22 + 75.8 RT
REV 24 + 03.2 LT
REV 24 + 38.0 RT

BRIDGE RAILING - HD STEEL BEAM (FASCIA MTD)
LT
REV 23 + 18.95 ~ 23 + 55.71
RT
REV 23 + 30.97 ~ 23 + 69.38
GUARD RAIL - HD ST BM
LT
REV 22 + 44.9 ~ 23 + 18.95
REV 23 + 55.71 ~ 24 + 03.2
RT
REV 22 + 75.8 ~ 23 + 30.97
REV 23 + 69.38 ~ 24 + 39.0



SCALE 1" = 20'-0"



STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	DANBY	Bridge No.	32
Highway No.	TH 5, CL III	Log Sta.	23 + 50
TH 5 OVER THE FLOWER BROOK			
SURVEY LAYOUT			
Designed By	R WHITCOMB	Drawn By	R WHITCOMB
Checked By	P MAZA	Date	10/89
PROJECT	DANBY	Bridge Design Supervisor	D E LATHROP
PROJECT NO.	1441(20)	Date	8/89
16.C. Info.	ZH1130.3187.1146.DGN	PRF 87.1146.LAY	
Bridge Sheet No.		Sheet	2 of 25

SEEDING FORMULA

RURAL AREAS

% OF WT.	LBS. / ACRE	NAME	PURITY %	GERM. %
3.33	2	CROWN VETCH	98	75
50.00	30	CREeping RED FESCUE	98	85
8.33	5	TIMOTHY	98	85
16.67	10	PERENNIAL RYE GRASS	98	85
8.34	5	(VAR. PENNIFR)	98	85
8.33	5	ALFA ALFA (VAR. SARMA)	98	85
5.00	3	BUROCKT TREFOL	98	85
50.00	30	(VAR. EMPRE)	98	85
		HIGHLAND BENT GRASS	98	85

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE FROM ALL NOxious WEED SEEDS.

FERTILIZER SHALL BE MIXED AS FOLLOWS:

NITROGEN 100%
PHOSPHORUS 100%
POTASH 100%

FOR SANDY SOILS, THE FERTILIZER MIX SHOULD BE CHANGED TO:

NITROGEN 100%
PHOSPHORUS 100%
POTASH 100%

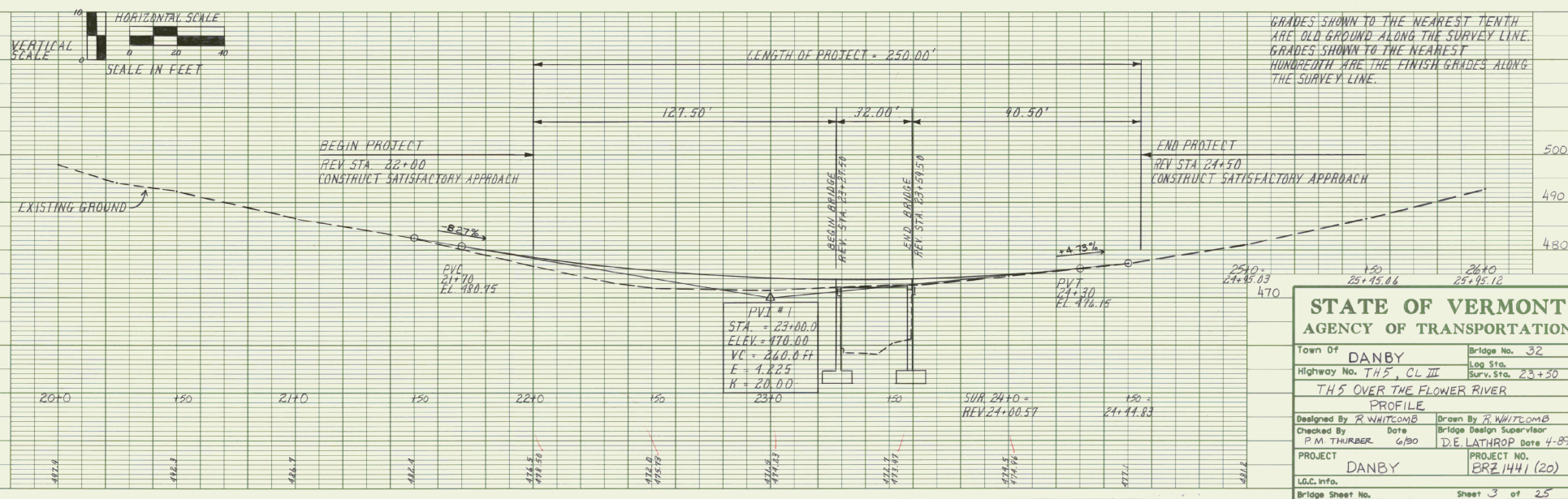
RATE OF APPLICATION:

SEED 60 LBS. / ACRE
FERTILIZER 500 LBS. / ACRE
HAY MULCH 2 TON / ACRE
LIME

FINAL HYDRAULIC DATA

Drainage Area = 6.44 Sq. Mi.
Q_{2.33} = 350 cfs HW. Elev. = 461.2
Q₁₀ = 760 cfs " " = 463.1
Q₂₅ = 1000 cfs " " = 464.0
Q₅₀ = 1200 cfs " " = 464.7
Q₁₀₀ = 1400 cfs " " = 465.4

Tailwater Depth @ Q₂₅ = 4.1'
Outlet Velocity @ Q₅₀ = 8.4 fps



EARTHWORK

GRADES						COMMON EXCAVATION		FILL		SUBBASE OF GRAVEL		6" SUBBASE OF CRUSHED GRAVEL		
VC.	% GRD	STATION	ELEVATION ON TAN.	ON V.C.	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
VC = 260'	- 8.2647%	MAINLINE	(TH 5)											
		TRAV 21+50	486.7						0		0		0	
		21+70	480.75	480.75	0	50				21		21		9
		TRAV 22+00	478.27	478.50	+0.23				23		23		10	
		REV 22+00	478.27	478.50	+0.23	50			150	160	49	67	24	32
		22+50	474.13	475.73	+1.60				156			80		38
		22+77.50	471.86	474.75	+2.89	27.50			157					
		23+00	470.00	474.23	+4.23						37		17	
		23+27.50	471.30	473.93	+2.63	27.50			BEGIN BRIDGE		37		17	
		23+50	472.37	473.97	+1.60									
VC = 100'	+ 4.7333%	23+59.50	472.82	474.06	+1.24	28	END BRIDGE		31		15			
		24+00	474.73	474.96	+0.23	41.10		56			50		24	
		24+00.60	474.76	474.98	+0.22	45				35		16		
		24+30	476.15	476.15	0	44.28		70			66		13	
		24+44.83	476.85			40				45		0		
		24+50	477.10			50.29		37			42			
		24+95.03	479.23				0			0				
								163 CY		337 CY		364 CY		133 CY
		SIDELINE	(TH 11)											
		APPROACH @ TRAV STA 22+33.54												
VC = 100'	- 2.10%	TRAV 10+00	475.87				0		0		0		0	
		10+15	475.55	475.55	0	25		3		26		9	5	
		10+25	475.34	475.40	+0.06		6		50		19		10	
		10+32	475.19	475.37	+0.18	7		2		33		10	4	
		10+50	474.82	475.53	+0.71	18		2		80		22	11	
		10+65	474.50	476.08	+1.58	25				19		14	5	
		10+75	475.55	476.56	+1.01				0		9		0	
		11+00	478.18	478.32	+0.14			7 CY		158 CY		59 CY	25 CY	
		11+15	479.75	479.75	0									
		DRIVE APPROACH @ REV 22+33.60	LT.					0		165 CY		56 CY	0	
SUBTOTAL ROUNDING:							170 CY	660 CY	479 CY	1	158 CY	2		
TOTAL:							170 CY	660 CY	480 CY		160 CY			
EARTHWORK SUMMARY:														
PLANIMETERED FILL:									660 CY					
FILL FACTOR (0.15)									99 CY					
									759 CY					
MATERIAL AVAILABLE FOR FILL:														
COMMON EXCAVATION									170 x (1.0) =	170 CY				
UNCLASSIFIED EXCAVATION									446 x (0.6) =	268 CY				
STRUCTURE EXCAVATION									890 x (0.6) =	534 CY				
TOTAL MATERIAL AVAILABLE:										972 CY				
TOTAL FILL REQUIRED:										759 CY				
WASTE:										213 CY				

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN						TOTAL	FINAL
			SUPER-STRUCTURE	ABUT. #1	ABUT. #2	ROADWAY	CHANNEL			
203.15	COMMON EXCAVATION	CY				170			170	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY					450		450	
204.20	TRENCH EXCAVATION OF EARTH	CY				60			60	
204.25	STRUCTURE EXCAVATION	CY		450	450				900	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		320	340				660	
301.15	SUBBASE OF GRAVEL	CY				480			480	
301.26	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	CY				160			160	
501.25	CONCRETE, CLASS B	CY	50	172	194				416	
507.15	REINFORCING STEEL	LB	8180	19200	20350				47770	
514.10	WATER REPELLENT	GAL	8	7	8				23	
525.41	BRIDGE RAILING - HDSB/FASCIA MOUNTED	LF	75						75	
528.10	ONE-WAY TEMPORARY BRIDGE	LS				1			1	
529.20	PARTIAL REMOVAL OF STRUCTURE	EA				1			1	
601.0015	18" CSP 0.064 (2-2/3 x 1/2)	LF				78			78	
601.6015	18" CSP END SECTION 0.064	EA				1			1	
613.10	STONE FILL, TYPE I	CY		20	30	40			90	
613.12	STONE FILL, TYPE III	CY					330		330	
620.50	REMOVING AND RESETTING FENCE (M00)	LF				262			262	
621.21	HEAVY DUTY STEEL BEAM GUARD RAIL	LF				281			281	
621.60	ANCHOR FOR STEEL BEAM RAIL	EA				4			4	
621.80	REMOVAL AND DISPOSAL OF GUARD RAIL	LF				230			230	
631.16	TESTING EQUIPMENT, CONCRETE	LS				1			1	
635.10	MOBILIZATION	LS				1			1	
649.10	GEOTEXTILE FABRIC FOR FILTERS	SY		200	190				390	
651.40	GRUBBING MATERIAL	SY		110	140				250	

BRIDGE (S) AT STATION (S) (REV) 23+50
LOCATION (S) TH 5 OVER FLOWER BROOK

Prepared by: S. F. CY
Checked by: B. WAZA
SUPERVISOR: D. E. LATHROP

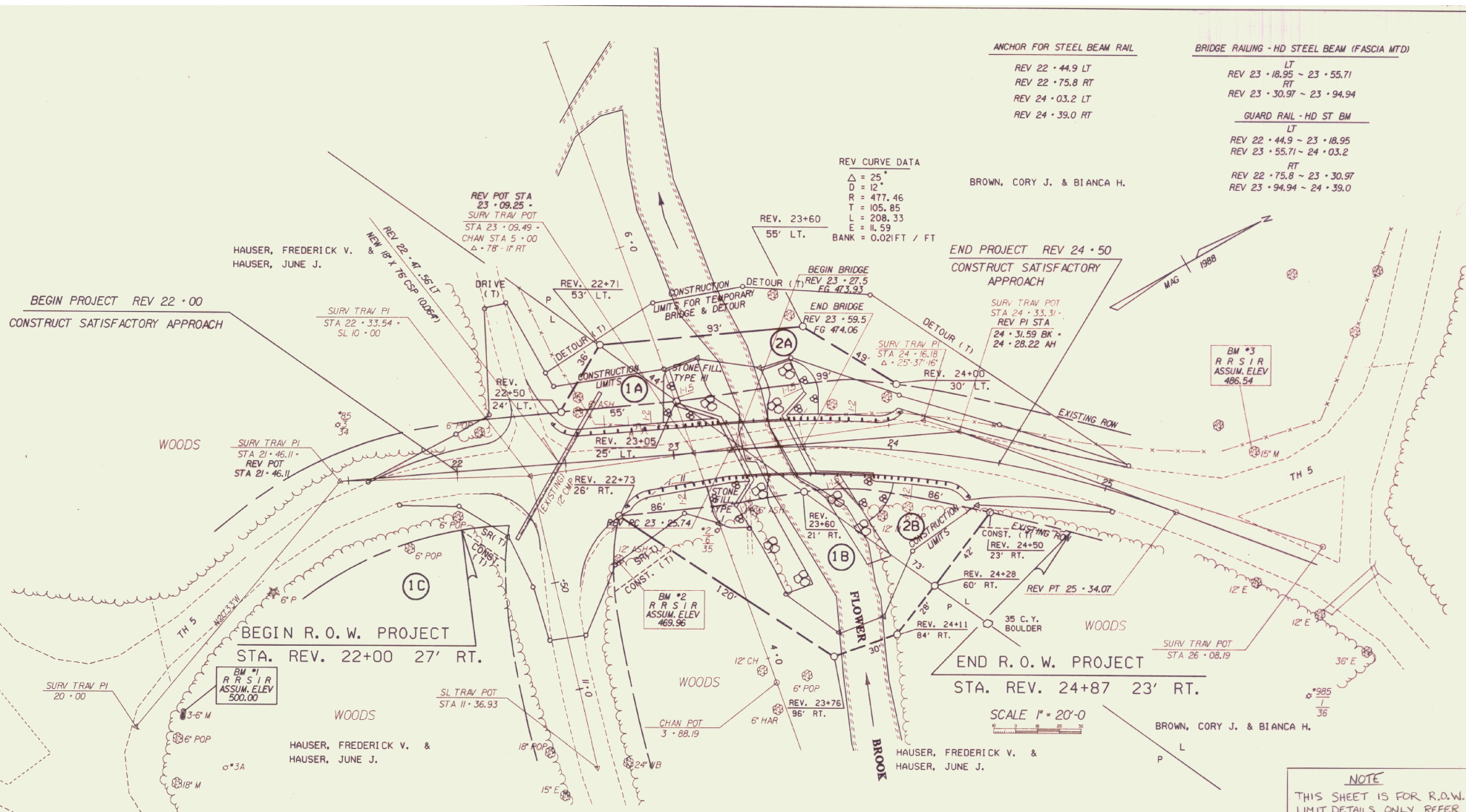
DANBY
BR OF
PROJECT NO. BRZ 1441 (20)
SHEET NO. 4 OF 25

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

NOTE

THIS SHEET IS FOR R.O.W.
LIMIT DETAILS ONLY. REFER
TO THE REMAINING PLAN
SHEETS FOR ALL OTHER
CONTRACT DETAILS.

DANBY
BRZ 1441 (20)
SHEET 5 OF 25



ANCHOR FOR STEEL BEAM RAIL

REV 22 + 44.9 LT
 REV 22 + 75.8 RT
 REV 24 + 03.2 LT
 REV 24 + 39.0 RT

BRIDGE RAILING - HD STEEL BEAM (FASCIA MTD)

LT
 REV 23 + 18.95 ~ 23 + 55.71
 RT
 REV 23 + 30.97 ~ 23 + 94.94

GUARD RAIL - HD ST BM

LT
 REV 22 + 44.9 ~ 23 + 18.95
 REV 23 + 55.71 ~ 24 + 03.2
 RT
 REV 22 + 75.8 ~ 23 + 30.97
 REV 23 + 94.94 ~ 24 + 39.0

REV CURVE DATA

$\Delta = 25^\circ$
 $D = 12'$
 $R = 477.46$
 $T = 105.85$
 $L = 208.33$
 $E = 11.59$
 BANK = 0.021 FT / FT

BROWN, CORY J. & BIANCA H.

END PROJECT REV 24 + 50
 CONSTRUCT SATISFACTORY APPROACH

END R.O.W. PROJECT
 STA. REV. 24+87 23' RT.

SCALE 1" = 20'-0"

BROWN, CORY J. & BIANCA H.

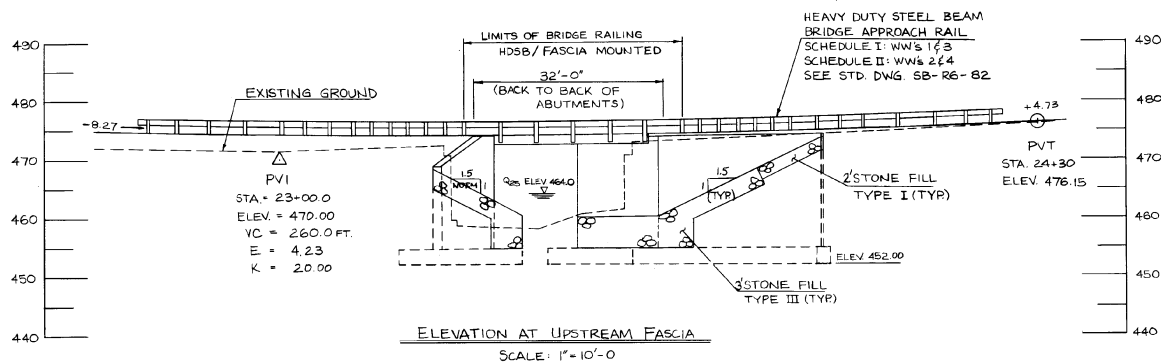
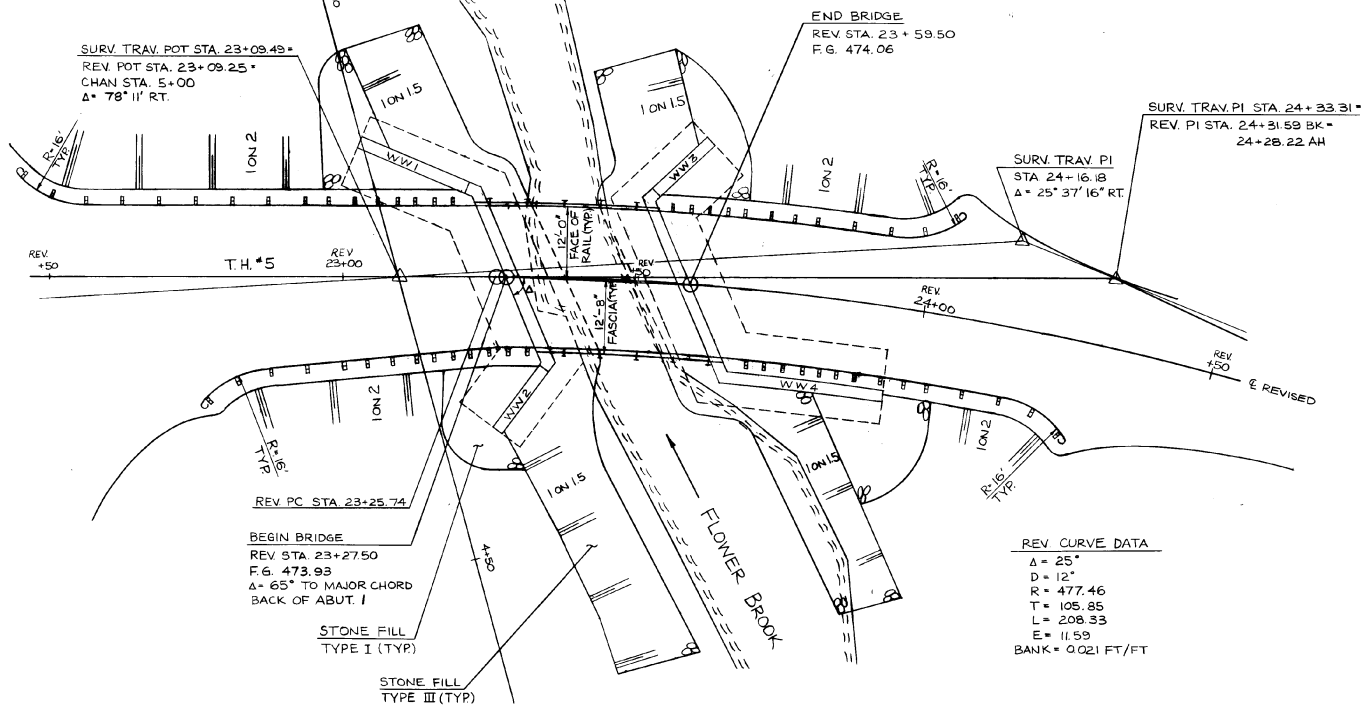
NOTE

THIS SHEET IS FOR R.O.W. LIMIT DETAILS ONLY. REFER TO THE REMAINING PLAN SHEETS FOR ALL OTHER CONTRACT DETAILS.

ACCT. WHITCOMB
 ZPHOTO/DBT/J46ROW.DGN
 PRF:
 DATE PLOTTED 15-JAN-1990

SURV TRAV PI 20 + 00 22.24 20.51 30.92 3-5' M 18' M	SURV PI STA 21 + 46.11 REV POT STA 21 + 46.11 25.79 34 39.72 43.50 6' P 18' POP	SURV PI 22 + 33.54 SL 10 + 00 6' ASH 30.47 42.03 39.20 6' POP	SL TRAV POT STA 11 + 36.93 18' POP 14.27 18.48 15' E 24' WB	SURV POT 23 + 09.49 CHAN STA 5 + 00 38.34 36.21 35 6' ASH	CHAN POT 3 + 88.19 12' CH 13.56 12.36 6' POP 6' HAR	SURV TRAV PI STA 24 + 16.18 41.18 40.27 41.87 6' POP 6' AP	SURV TRAV POT STA 26 + 08.19 34.33 30.97 30.95 12' E 12' E 36' E
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DANBY
 BRZ 1441 (20)
 R.O.W. SHEET 6 OF 25



STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	DANBY	Bridge No.	32
Highway No.	TH 5, CL III	Log Sta.	
		Surv. Sta.	23+50
TH 5 OVER FLOWER BROOK			
PLAN AND ELEVATION			
Designed By	R. WHITCOMB	Drawn By	S. ROY
Checked By	P.M. THURBER	Date	6/90
		Bridge Design Supervisor	D. E. LATHROP Date 6/90
PROJECT	DANBY	PROJECT NO.	BRZ 1441 (2.0)
L&C Info.			
Bridge Sheet No.		Sheet	7 of 25

SOIL CLASSIFICATION

AASHTO

A1	Gravel and Sand
A2	Fine Sand
A3	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

UNIFIED SOIL SYSTEM

GW/GP	Clean Gravels (Few Fines)
GM/GC	Gravels (Appreciable Fines)
SW/SP	Clean Sands (Few Fines)
SM/SC	Sand (Appreciable Fines)
ML/CL	Low Plastic Silts & Clays
OL	Low Plastic Organic Silt
MH/CH	High Plastic Silts & Clays
OH	High Plastic Organic Silt
PT	Highly Organic Soils

MOISTURE

DESCRIPTIVE TERM	OBSERVED IN FIELD	% ± BY ANALYSIS
Dry	No Visible Water	<10
Moist	Damp	10-20
Moist to Wet	Moist to Wet	21-50
Wet	Visible Water	51-70
Saturated		>70

ROCK QUALITY DESIGNATION

R.Q.D.	ROCK DESCRIPTION
<.25	Very Poor
.25 to .50	Poor
.51 to .75	Fair
.76 to .90	Good
>.90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)	CONSISTENCY (COHESIVE SOILS)
DESCRIPTIVE TERM	DESCRIPTIVE TERM
<5	Very Loose
5-10	Loose
11-24	Med. Dense
25-50	Dense
>50	Very Dense
	16-30 Very Stiff
	31-60 Hard
	>60 Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊙	Standard Penetration Boring
⊕	Auger Boring
○	Rod Sounding
⊖	Sample
N	Standard Penetration Test
	Blow Count Per Foot For:
	2" O.D. Sampler
	1 1/2" I.D. Sampler
	Hammer Weight Of 140 Lbs.
	Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/2"
BX	Core Size 1 1/4"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
G	Gravel
Sa	Sand
Sl	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
LOB	To Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than

COLOR

bkl	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gr	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mtc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.075" (#10 sieve).

SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).

SILT - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and caters to strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

MUCK - Soft organic soil containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.

GENERAL NOTES

- The subsurface explorations shown herein were made between 6/12/1990 and 6/13/1990 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.

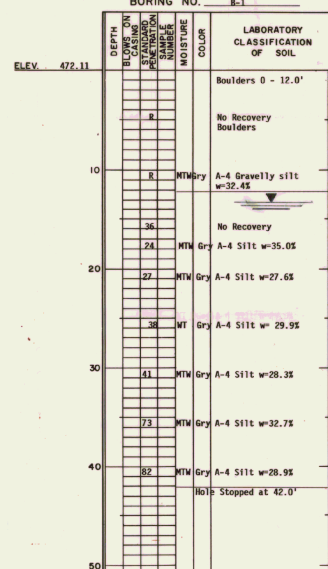
- Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgement by the Contractor.

- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.

STATE OF VERMONT AGENCY OF TRANSPORTATION

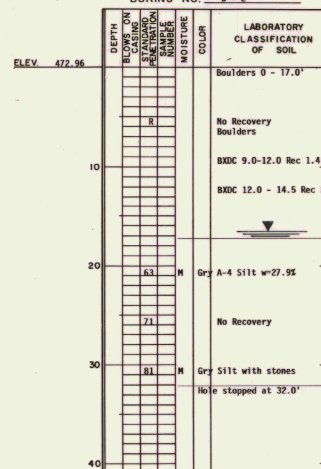
Town Of	DANBY	Bridge No.	32
Highway No.	TH 5	Log Sta.	
		Surv. Sta.	23 + 50
TH 5 OVER FLOWER RIVER			
BORING INFORMATION SHEET			
Designed By	R. WHITCOMB	Drawn By	G. ROY
Checked By	C. MEUNIER	Bridge Design Supervisor	D.E. LATHROP
Date	7/90	Date	7/90
PROJECT	DANBY	PROJECT NO.	BRZ 1441 (20)
I.G.C. Info.	ZH630.3087.04680R.DCN	PRJ. BORING	CDT
Bridge Sheet No.		Sheet	8 of 25

DANBY BRZ 1441 (20)
BORING NO. B-1



ELEV. 452.0
BOT. OF FOOTING
ABUT. No. 1

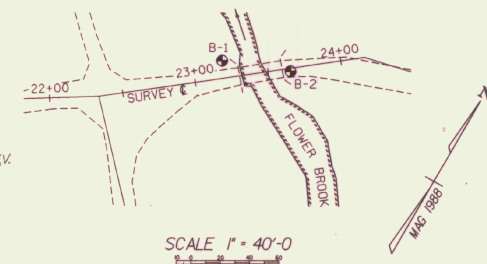
DANBY BRZ 1441 (20)
BORING NO. B-2



ELEV. 452.0
BOT. OF FOOTING
ABUT. No. 2

BORING LOG

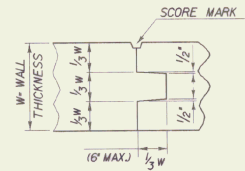
BORING No.	SURV. STA.	OFFSET	EXISTING GROUND ELEV.
B-1	23+20	12' LT.	472.11
B-2	23+65	2' RT.	472.96



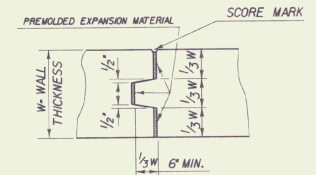
SCALE 1" = 40'-0"

GENERAL NOTES

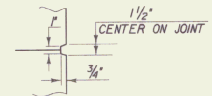
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, FOURTEENTH EDITION, AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO THE FLOWER BROOK, AS DIRECTED BY THE ENGINEER AND STANDARD SPECIFICATION, SECTION 105.
3. FOUR CUBIC YARDS OF ADDITIONAL STONE FILL TYPE III, HAVE BEEN INCLUDED FOR A FISHERIES HABITAT MITIGATION BOULDER CLUSTER, AND SHALL BE PAID FOR UNDER THE ITEM "STONE FILL TYPE III." THE BOULDER CLUSTERS WILL BE PLACED A MINIMUM OF 30 FEET DOWNSTREAM OF THE BRIDGE AS DIRECTED BY THE ENGINEER.
4. THE TRAFFIC SHALL BE MAINTAINED ON TOWN HIGHWAY NO. 5 DURING CONSTRUCTION OF THE NEW BRIDGE UNDER THE ITEM "ONE WAY TEMPORARY BRIDGE." SEE DETAILS ON THIS SHEET FOR TEMPORARY BRIDGE REQUIREMENTS. (SUMMERTIME USAGE ONLY.)
5. THE ITEM "PARTIAL REMOVAL OF STRUCTURE" CONSISTS OF REMOVING EXISTING SUPERSTRUCTURE DOWN TO THE BRIDGE SEATS.
6. THE EXISTING WINGWALLS AND ABUTMENTS SHALL BE REMOVED TO THE LIMITS SHOWN ON THE PLAN UNDER THE ITEMS "STRUCTURE EXCAVATION" AND "UNCLASSIFIED CHANNEL EXCAVATION."
7. EXISTING FENCE IN DETOUR AREA SHALL BE REMOVED AND RESET UNDER THE ITEM 620.50 (MODIFIED). SEE SPECIAL PROVISIONS.
8. AFTER REMOVAL OF TEMPORARY BRIDGE AND ROADWAY, THE CONTRACTOR SHALL RELOCATE BARBED WIRE FENCE ALONG THE EXISTING RIGHT-OF-WAY OR AS DIRECTED BY THE ENGINEER UNDER THE ITEM 620.50 (MODIFIED). SEE SPECIAL PROVISIONS.
9. EXISTING GUARDRAIL AND BRIDGE RAILING SHALL BE REMOVED WITH CARE UNDER THE ITEM 621.80. REMOVAL AND DISPOSAL OF GUARDRAIL AND SHALL REMAIN THE PROPERTY OF THE TOWN OF DANBY. THE CONTRACTOR SHALL STOCKPILE THE RAIL & POSTS ON THE PROJECT. TOWN FORCES WILL BE RESPONSIBLE FOR TRANSPORTING MATERIALS OFF THE SITE.
10. NO TRAFFIC SHALL BE ALLOWED ON THE NEW SLAB UNTIL THE CURE PERIOD IS UP AND THE 28 DAY DESIGN STRENGTH IS ATTAINED, AS EVIDENCED BY TEST CYLINDERS CURED UNDER FIELD CONDITIONS.
11. TURF ESTABLISHMENT SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER ITEMS IN THE CONTRACT. SEE SHEET 3 FOR SEEDING FORMULA.
12. IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE THAT TIME FRAME.
13. THE HEIGHT OF FILL BEHIND ABUTMENTS WILL BE LIMITED TO TWO FEET BELOW THE BRIDGE SEAT ELEVATION UNTIL THE SLAB HAS BEEN POURED AND CURED.
14. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".
15. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF DECK BETWEEN DRIP BEADS.
16. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
17. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT.
18. REINFORCING PLACEMENT TOLERANCES SHALL BE:
SPACING $\pm$ 1"
CLEARANCE $\pm$ $\frac{1}{4}$ "
19. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:
CONCRETE: f'_c = 3500 PSI f_c = 4000 PSI
REINFORCING STEEL: F_t = 24,000 PSI Grade 60
SOIL: UNIT WEIGHT 140 PCF
20. BRIDGE IS DESIGNED FOR HS 20-44



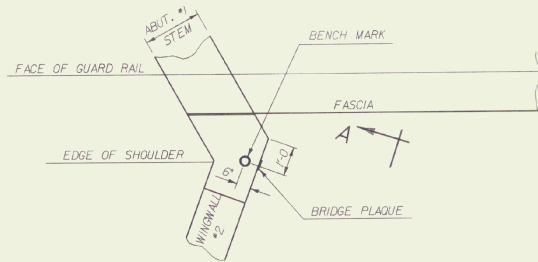
TYPICAL CONCRETE CONSTRUCTION JOINT



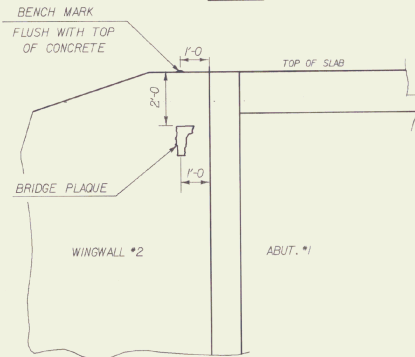
TYPICAL CONCRETE EXPANSION JOINT



SCORE MARK DETAIL



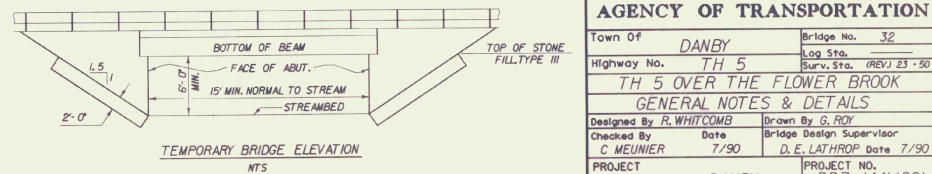
PLAN



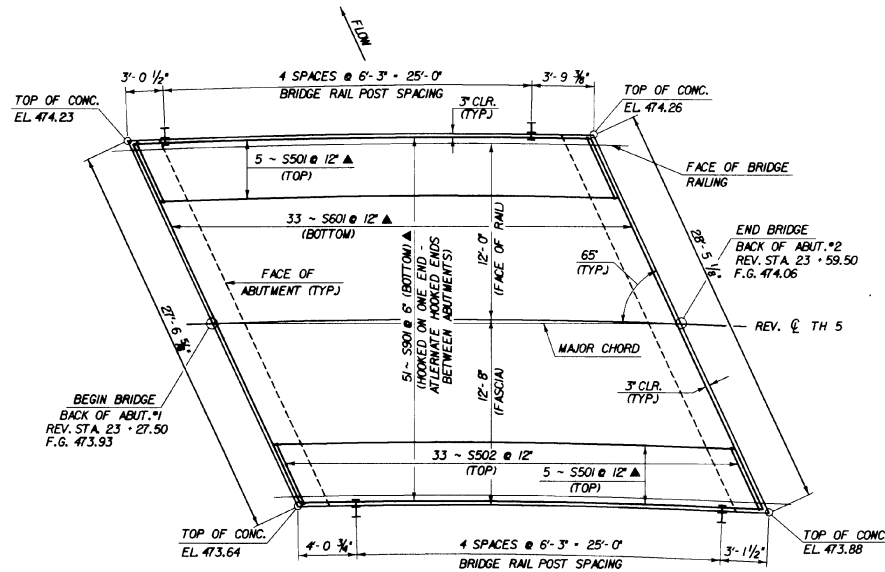
VIEW "A - A"

LOCATE BENCH MARK AND BRIDGE PLAQUE

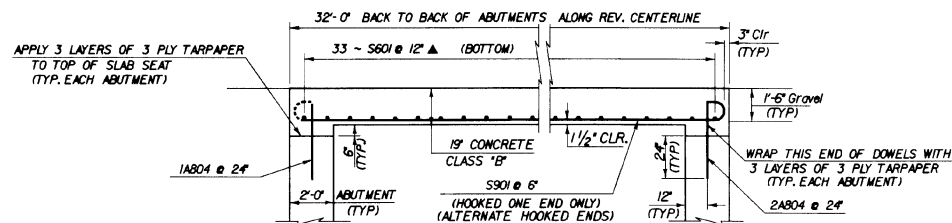
THE BRIDGE PLAQUE AND BENCH MARK WILL BE SUPPLIED BY THE AGENCY OF TRANSPORTATION AND SHALL BE INSTALLED BY THE CONTRACTOR AT ABUTMENT #1 ON THE RIGHT SIDE AS SHOWN OR AS DIRECTED BY THE ENGINEER.



STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of <u>DANBY</u>	Bridge No. <u>32</u>
Highway No. <u>TH 5</u>	Log Sta. _____
	Surv. Sta. <u>REVJ 23.50</u>
TH 5 OVER THE FLOWER BROOK GENERAL NOTES & DETAILS	
Designed By <u>R. WHITCOMB</u>	Drawn By <u>G. ROY</u>
Checked By <u>C. MEUNIER</u> Date <u>7/90</u>	Bridge Design Supervisor <u>D. E. LATHROP</u> Date <u>7/90</u>
PROJECT <u>DANBY</u>	PROJECT NO. <u>BRZ 1441(20)</u>
I.G.C. Info. <u>ZH14307237 JH46DGN</u>	PRF- <u>DANBURY</u> NOTE
Bridge Sheet No. _____	Sheet <u>9</u> of <u>25</u>

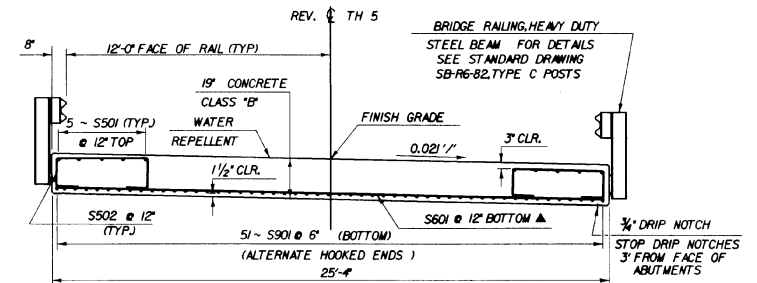


PLAN
SCALE 1/4" = 1'-0"



ELEVATION ALONG C OF ROADWAY

NTS

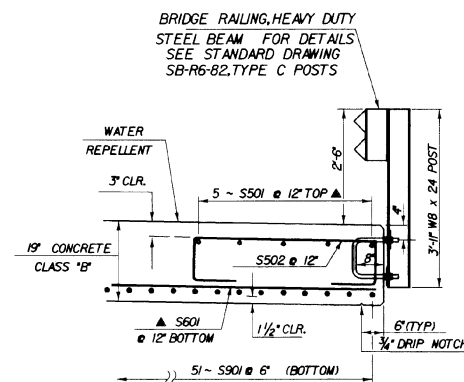


TYPICAL SECTION

NTS

NOTES

1. THE SLAB SHALL BE CAMBERED A TOTAL OF 3/4" @ MIDSPAN.
2. THE CONCRETE DECK SHALL BE BROOM FINISHED.
3. ▲ - CUT TO FIT IN THE FIELD.
4. COST OF TARPAPER & IT'S APPLICATION SHALL BE SUBSIDIARY TO CONCRETE, CLASS B.

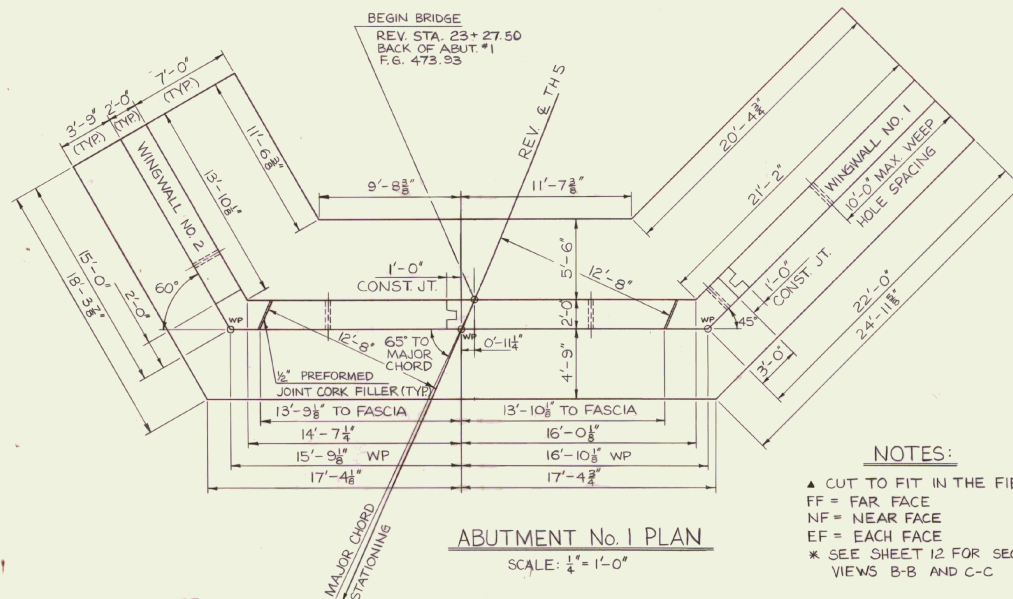


FASCIA & RAILING DETAIL

NTS

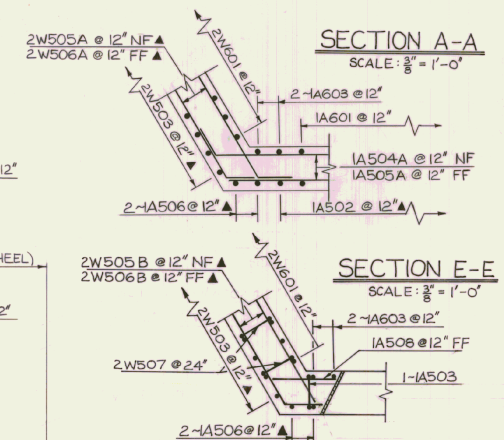
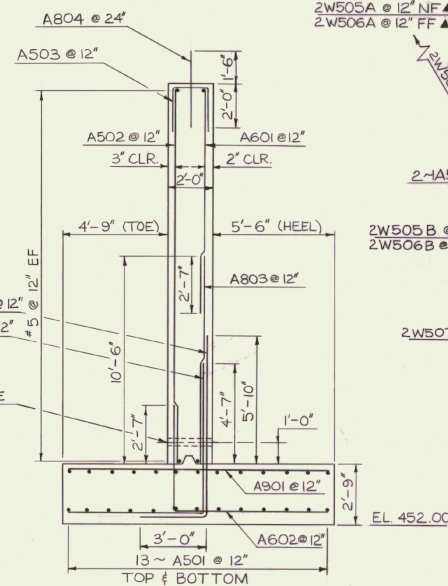
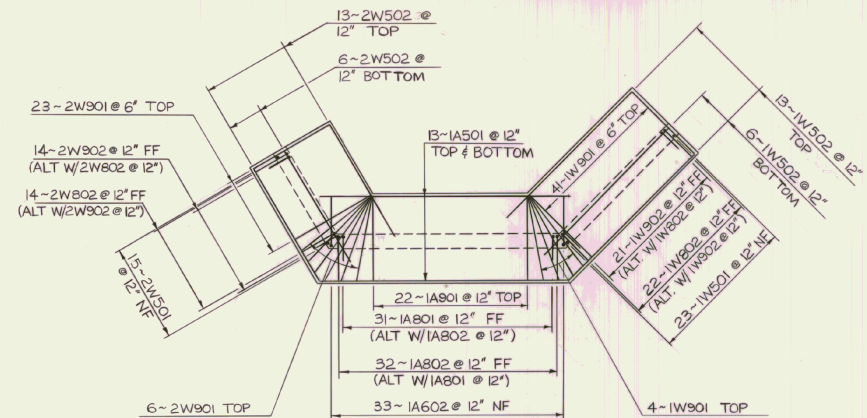
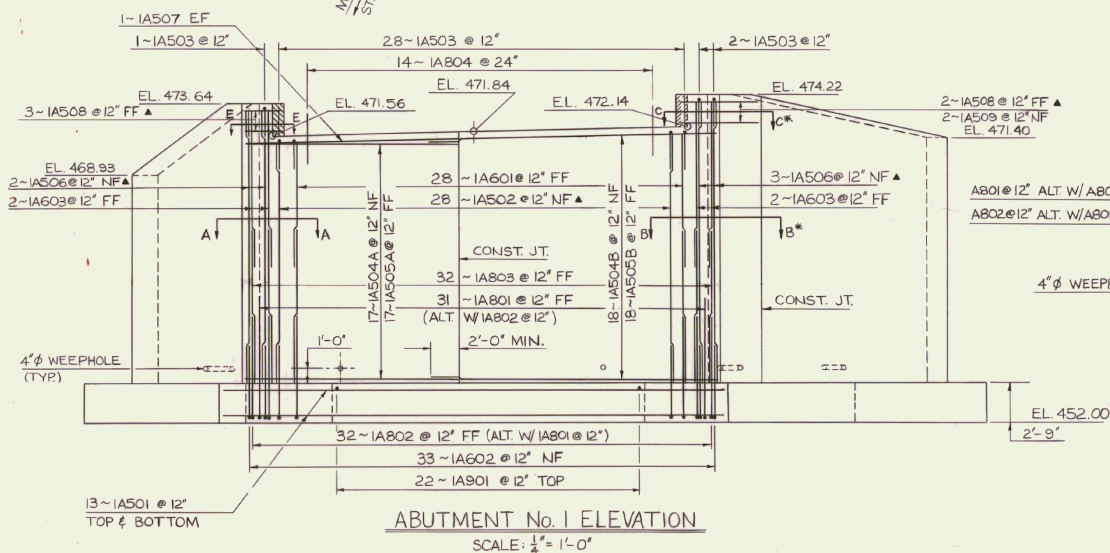
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	DANBY	Bridge No.	32
Highway No.	TH 5, CL III	Log Sta.	
		Surv. Sta.	(REV) 23 + 50
TH 5 OVER FLOWER BROOK			
SLAB DETAILS			
Designed By	A. WHITCOMB	Drawn By	G. ROY
Checked By	C. MEUNIER	Bridge Design Supervisor	D.E. LATHROP
Date	6/90	Date	6/90
PROJECT	DANBY	PROJECT NO.	BRZ 1441 (20)
L.C.C. Info.	ZHMC3072.07, JMS/SLB	PRF. 87, JMS/SLB	
Bridge Sheet No.		Sheet	10 of 25



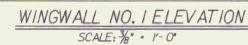
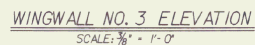
NOTES:

- ▲ CUT TO FIT IN THE FIELD
- FF = FAR FACE
- NF = NEAR FACE
- EF = EACH FACE
- * SEE SHEET 12 FOR SECTION VIEWS B-B AND C-C



STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of	DANBY	Bridge No.	32
Highway No.	TH5	Log Sta.	
		Surv. Sta. (REV.)	23+50
ABUTMENT NO. 1 DETAILS			
TH 5 OVER FLOWER BROOK			
Designed By	R. WHITCOMB	Drawn By	G. ROY
Checked By	C. MEUNIER	Bridge Design Supervisor	
Date	6/90	Date	6/90
PROJECT	DANBY	PROJECT NO.	BRZ 1441(20)
L&C info.		BRZ 1441(20)	
Bridge Sheet No.		Sheet 11 of 25	

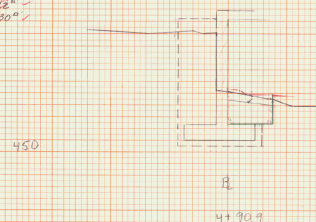


▲ CUT TO FIT IN THE FIELD
FF - FAR FACE
NF - NEAR FACE
EF - EACH FACE

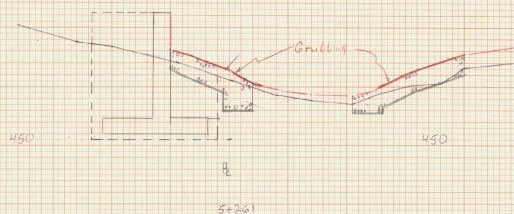
STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of <u>DANBY</u>	Bridge No. <u>32</u>
Highway No. <u>TH 5</u>	Log Sta. <u> </u>
	Surv. Sta. (REV.) <u>23 - 50</u>
WINGWALL DETAILS TH 5 OVER FLOWER BROOK	
Designed By <u>R. WHITCOMB</u>	Drawn By <u>G. ROY</u>
Checked By <u>C. MEUNIER</u>	Bridge Design Supervisor <u>D. E. LATROFF</u>
Date <u>6 / 90</u>	Date <u>6 / 90</u>
PROJECT <u>DANBY</u>	PROJECT NO. <u>BRZ 1441 (20)</u>
I.C.C. Info. <u>Zhs (30,72) BT JMW:JDN</u>	PM:BT JMW:JDN
Bridge Sheet No. <u> </u>	Sheet <u>13</u> of <u>25</u>

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CHAN 32.4"
SPR 168.0"
(3) STONE 28.0"
GRAN 130.0"

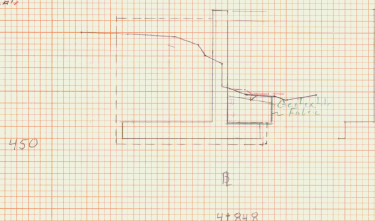


CHAN 42.0"
SPR 282.0"
(3) STONE 54.0"
GRAN 210.0"



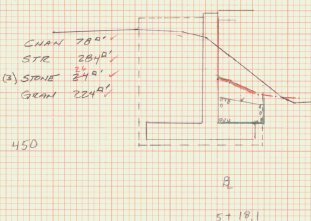
(2) Stone 41.0"
Chan 25.0"

CHAN 34.0"
SPR 146.0"
(3) STONE 28.0"
GRAN 110.0"



A+83.5 0-0 Grubbing

CHAN 70.0"
SPR 284.0"
(2) STONE 27.0"
GRAN 224.0"

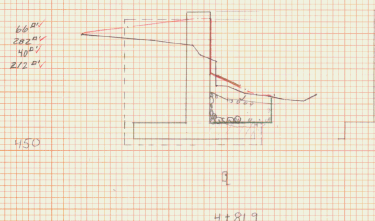


5+16.5 0-0 Grubbing

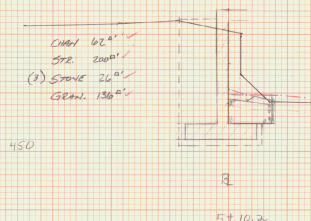
ABUTMENT #1

Station	Dist	Grass	Grass	Grass	Grass
		Exc	Exc	Exc	Exc
4+71.9	10.0	0	39.3	0	52.2
4+81.9	2.9	2.0	2.0	2.0	33.7
4+84.8	6.1	31.0	43.7	34.6	58.1
4+92.9	9.1	13.0	44.8	10.8	68.5
5+00.0	10.6	13.0	57.4	20.9	77.3
5+10.2	7.9	13.0	52.7	20.0	70.8
5+18.1	8.0	22.0	44.3	20.4	83.9
5+26.1	10.6	21.0	41.2	2.8	55.4
5+36.9	0	0	0	0	0
Totals			376.4	194.8	
		01.13.32	01.13.32	01.13.32	01.13.32
		119.12	119.12	119.12	119.12

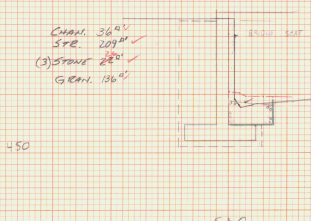
CHAN 16.0"
SPR 282.0"
(2) STONE 40.0"
GRAN 212.0"



CHAN 62.0"
SPR 200.0"
(2) STONE 26.0"
GRAN 136.0"



CHAN 36.0"
SPR 204.0"
(3) STONE 28.0"
GRAN 136.0"



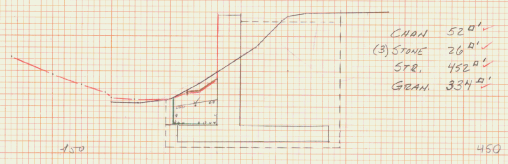
(2) Stone 50.0"
Chan 32.0"



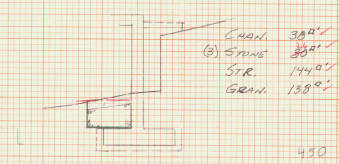
Built Channel 5+36.5

ABUTMENT #2		Gravimetric Moisture Area	GRAMMATIC MOISTURE Vol	Structure Extension Area	STRUCTURE EXTENSION Vol
1+51.5	9.5	0	28.2	0	
7+600	4.3	168	34.1	354	55.9
4+67.5	4.3	268	42.4	488	67.8
4+68	3.8	324	77.1	452	66.2
4+77.0	8.9	134		154	93.9
4+81.2	11.3	134	26.1	170	67.8
4+97.5	8.2	138	43.8	144	57.6
5+00.7	5.2	320	31.4	220	31.6
5+05.7	9.0	82	27.2	174	45.7
5+14.2	9.0	0	13.7	0	29.0

4+90 0-0 Grubbing



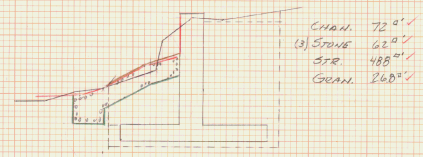
CHAN	52 ^{0'} ✓
(3) STONE	26 ^{0'} ✓
STR.	452 ^{0'} ✓
GRAN.	334 ^{0'} ✓



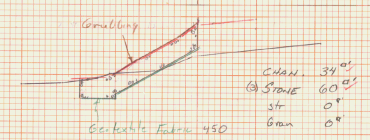
CHAN.	380° ✓
(3) STONE	30° ✓
STR.	1440° ✓
GRAN.	1380° ✓

Totals

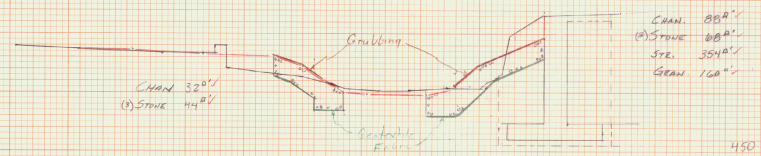
	$\frac{301.0 \text{ cy}}{01-13-96}$		$\frac{573.9 \text{ cy}}{01-13-96}$
	NPR		NPR
	F.F.G. General		F.F.G. General
	11/19/92		11/19/92
			100.8 S



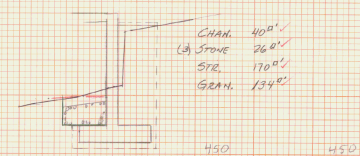
CHAN.	72	0'	✓
(3) STONE	62	0'	✓
STR.	488	0'	✓
GRAN.	260	0'	✓



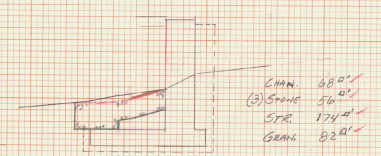
CHAN. 34' ✓
(3) STONE 60' ✓
str 0' ✓
Gran 0' ✓



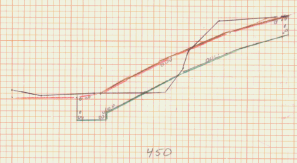
CHAN. 88A' ✓
(2) STONE 68A' ✓
STR. 354A' ✓
GRAN. 160A' ✓



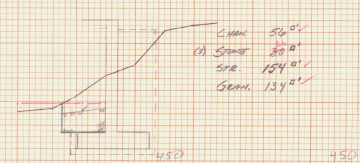
CHAN.	40° ✓
(3) STONE	26° ✓
STR.	170° ✓
GRAN.	134° ✓



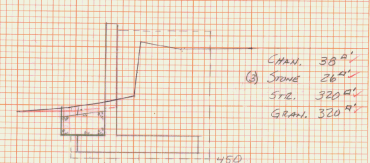
CHAN. 680' ✓
(3) STONE 560' ✓
STR. 174' ✓
GRAN. 820' ✓



(3) STONE 120° ✓
CHAM 100° ✓
St 0°
Gran 0°



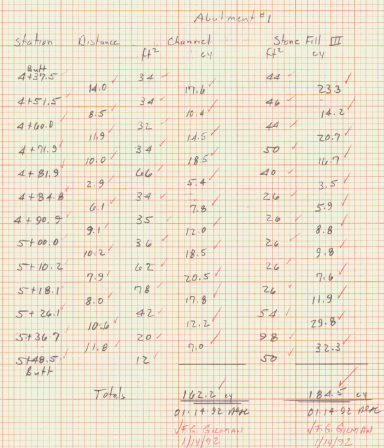
CHAM. 56' ✓
(S) Street 30' ✓
STRE. 154' ✓
GRAND. 134' ✓



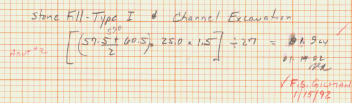
CHAN. 38 A' ✓
(3) STONE 26 A' ✓
STR. 320 A' ✓
GRAN. 320 A' ✓

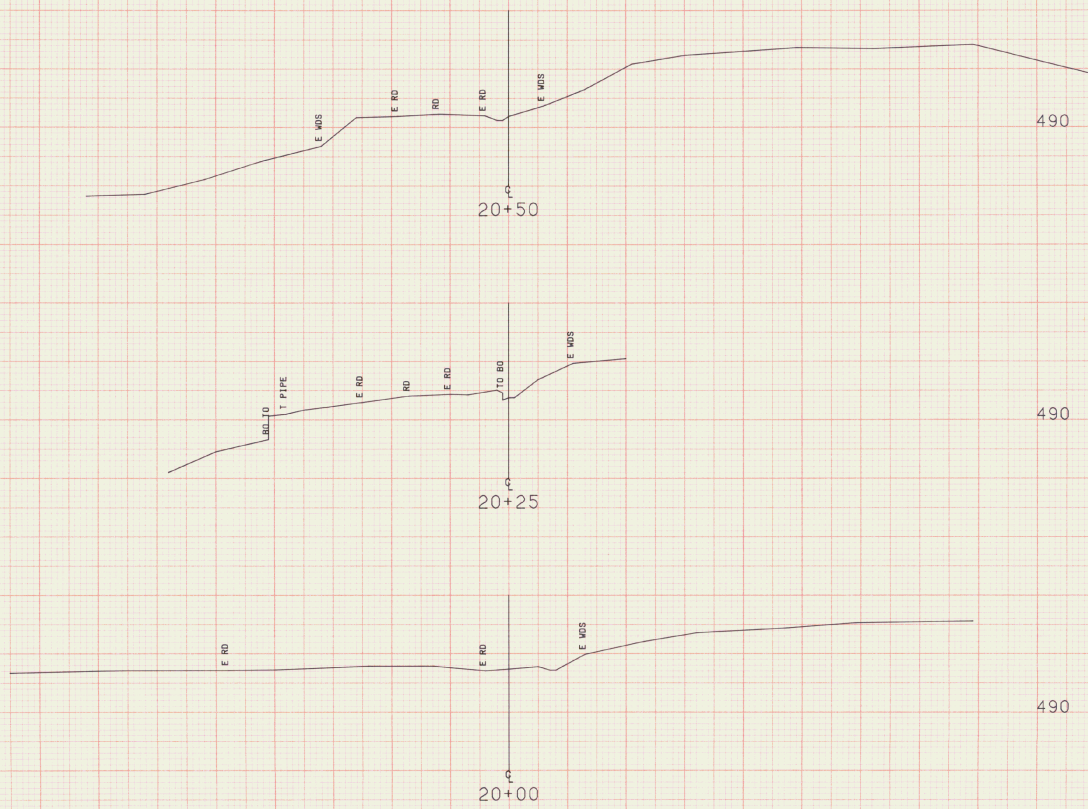
Used Final X-Section 1450

01/10/92 PM



ORIGINAL SURVEY	BY _____	DATE _____
NOTE BOOK	IMPRINTED _____	
	PLOTTED _____	
	TEMPLATE _____	
	AREAS _____	
	AREAS CHECKED _____	
No. _____		





FROM STA.	20+00	TO STA.	20+50
PROJECT NAME	DANBY MAIN		
NO.	BR21441 (20)		
SURVEYED BY	R. MOREAU	PLOTTED	03/16/89
SHEET	5	OF	25 SHEETS

SCALE 1" = 10 FEET



FROM STA. 21+00 TO STA. 22+00
 PROJECT NAME DANBY MAIN
 NO. BRZ1441 (20) PLOTTED 03/16/89
 SURVEYED BY R. MOREAU 09/88 0161
 SHEET 6 OF 25 SHEETS

SCALE 1" = 10 FEET

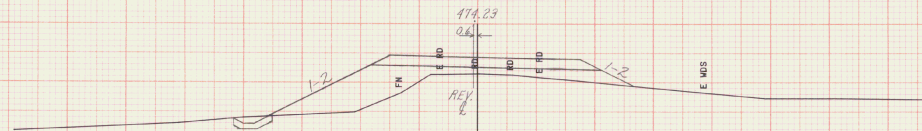
BEGIN BRIDGE RAILING - NO STEEL BEAM (FASCIA MTD.)
END HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 23+30.97 RT

470

BEGIN BRIDGE; END ROADWAY
REV. 23+27.50

23+29.50

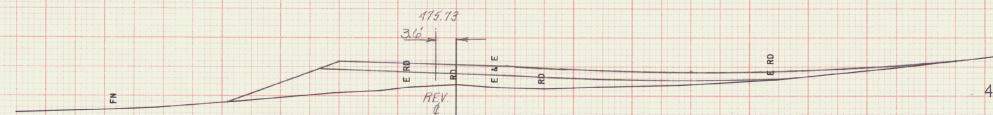
BEGIN BRIDGE RAILING - NO STEEL BEAM (FASCIA MTD.)
END HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 23+18.95 LT



470

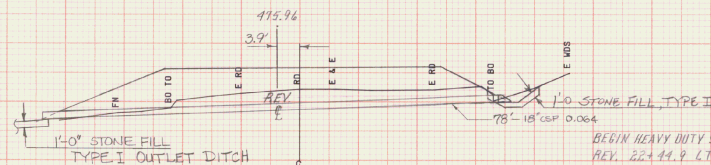
23+00 = REV. 23+00

BEGIN HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 22+75.8 RT



470

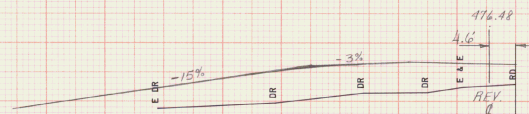
22+50 = REV. 22+50



470

22+45 = ASKEW 52°30' LT.
REV. 22+44.6

BEGIN HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 22+44.9 LT

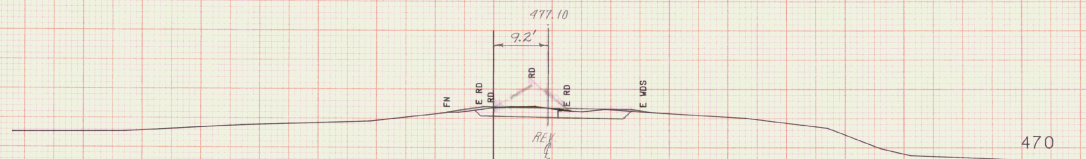


470

22+34 CONSTRUCT DRIVE LT.
= REV. 22+33.6

SCALE 1" = 10 FEET

FROM STA.	22+34	TO STA.	23+29.50
PROJECT NAME	DANBY MAIN		
NO.	BR21441 (20)		
SURVEYED BY	R. MOREAU		
SHEET 17	OF 22	PLOTTED	03/16/89
		09/88	0161

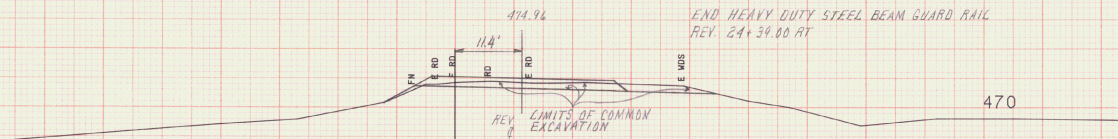


24+50 = REV. 24+44.83

END FULL WIDTH SUBBASE

END PROJECT - CONSTRUCT SATISFACTORY APPROACH
END ROADWAY
REV. 24+50

END HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 24+39.00 RT



24+00 = REV. 24+00.6

END HEAVY DUTY STEEL BEAM GUARD RAIL
REV. 24+03.20 LT

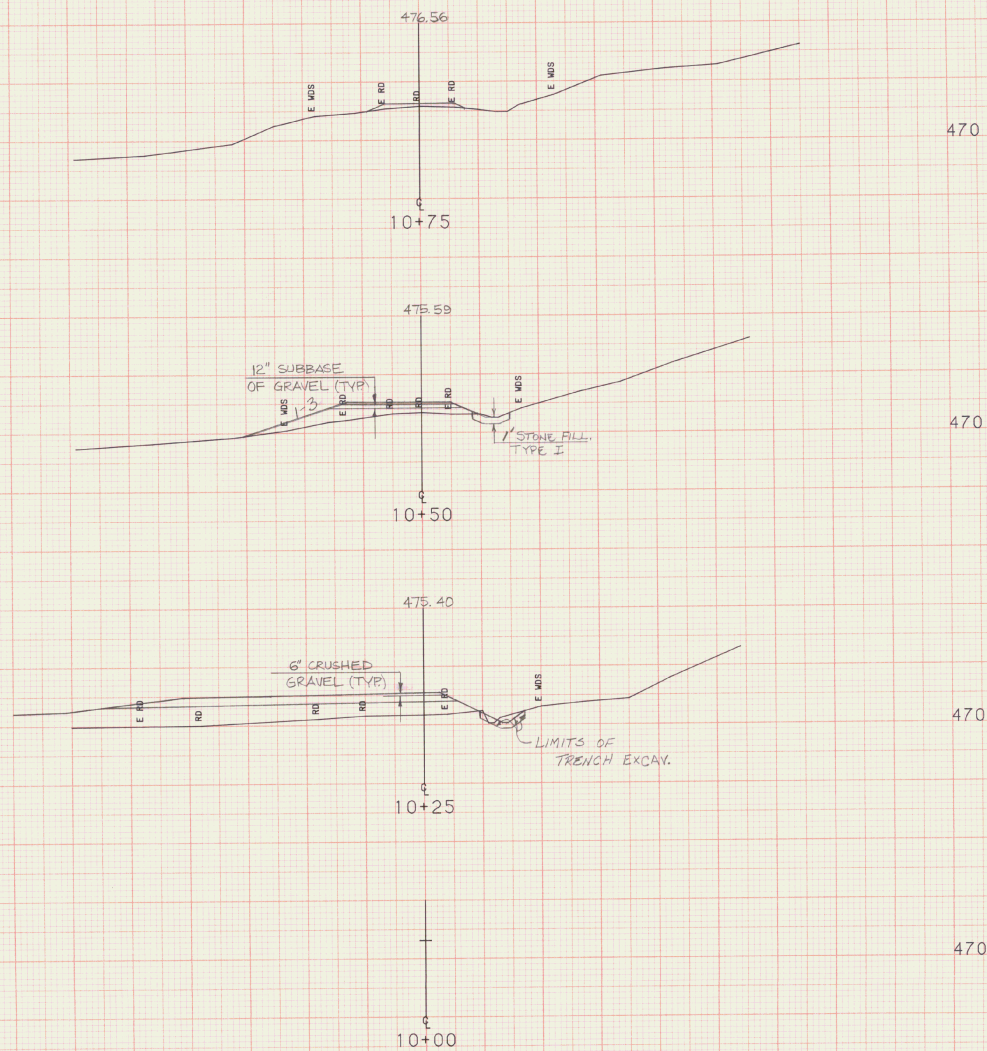
BEGIN HEAVY DUTY STEEL BEAM GUARD RAIL
END BRIDGE RAILING - HD STEEL BEAM (FASCIA MTD.)
REV. 23+69.58 RT

23+62

BEGIN ROADWAY; END BRIDGE
REV. 23+59.50

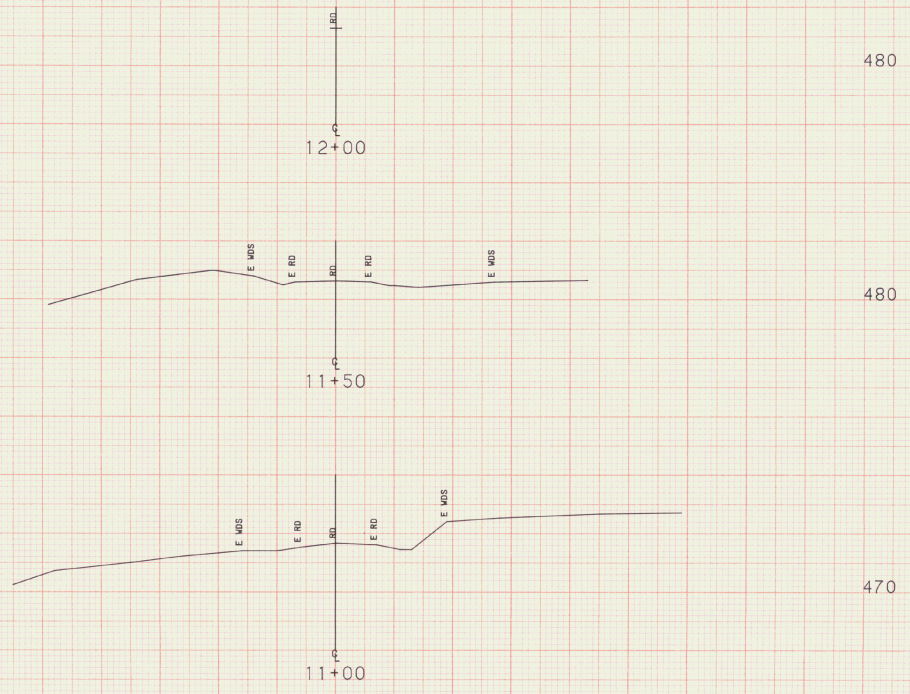
BEGIN HEAVY DUTY STEEL BEAM GUARD RAIL
END BRIDGE RAILING - HD STEEL BEAM (FASCIA MTD.)
REV. 23+55.71 LT

23+50



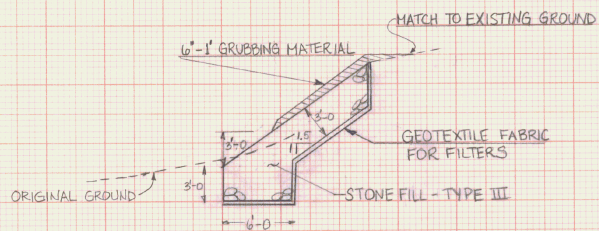
SCALE 1" = 10 FEET

FROM STA.	10+00	TO STA.	10+75
PROJECT NAME	DANBY TH11		
NO.	BR21441 (20)	PLOTTED	03/16/89
SURVEYED BY	B. MOREAU	09/88	0161
SHEET	20	OF	25 SHEETS

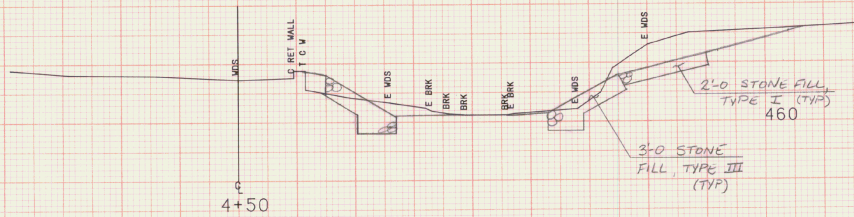


FROM STA. 11+00 TO STA. 12+00
PROJECT NAME DANBY TH11
NO. BR21441 (20) PLOTTED 03/16/89
SURVEYED BY R. MOREAU 09/88 0161
SHEET 21 OF 25 SHEETS

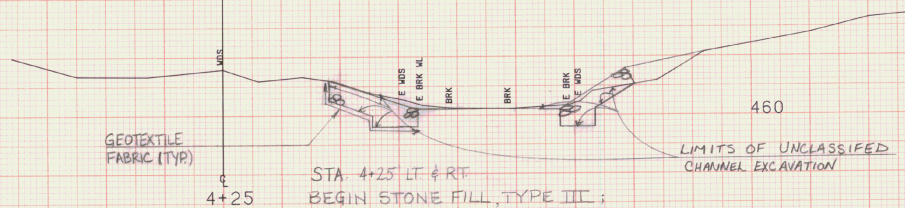
SCALE 1" = 10 FEET



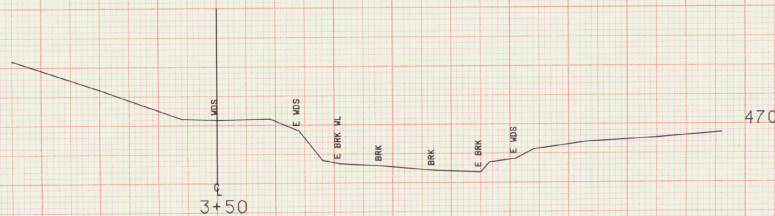
TYPICAL CHANNEL SECTION (NTS)



STA 4+42 RT - BEGIN STONE
FILL, TYPE I.



STA. 4+25 LT. & RT
BEGIN STONE FILL, TYPE III;
GEOTEXTILE FABRIC;
GRUBBING MATERIAL
UNCLASSIFIED CHAN. EXCAV.



FROM STA.	3+50	TO STA.	4+50
PROJECT NAME	DANBY CHAN		
NO.	BR21441 (20)		
SURVEYED BY	R. NOREAU	PLOTTED	03/16/89
SHEET	22 OF 23	SHEETS	09/88 0161

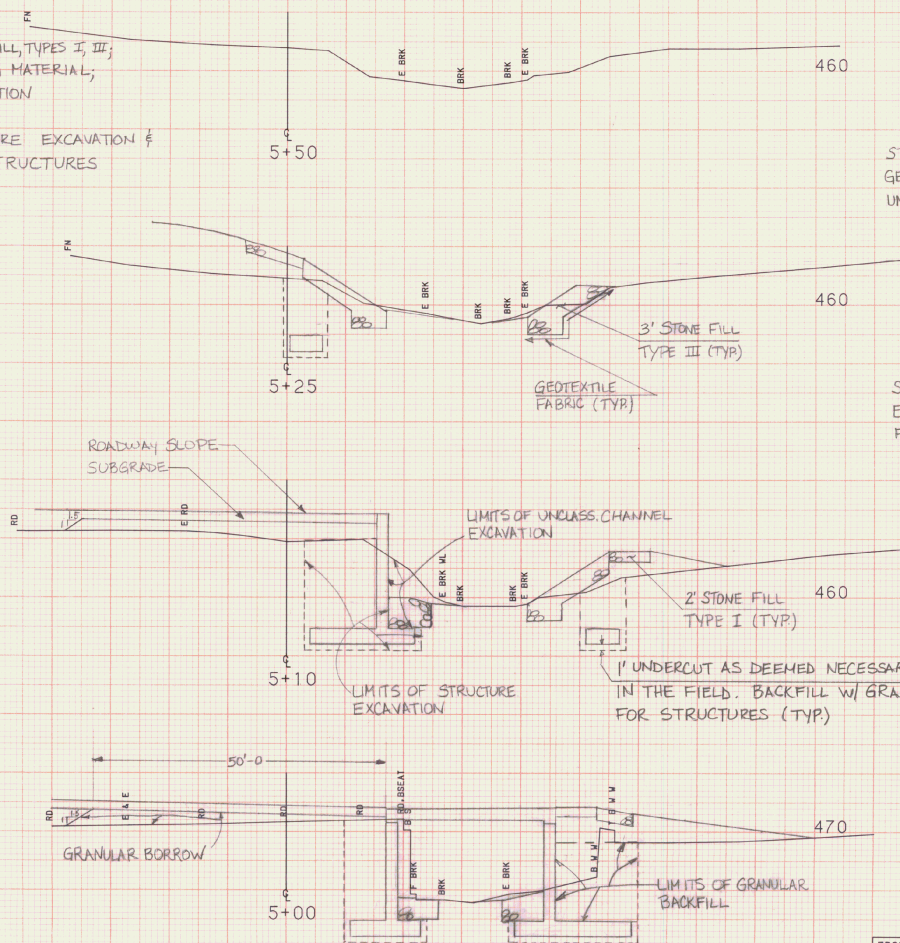
SCALE 1" = 10 FEET

STA. 5+40 LT- END STONE FILL, TYPES I, III;
GEOTEXTILE FABRIC; GRUBBING MATERIAL;
UNCLASSIFIED CHAN. EXCAVATION

STA. 5+29 LT- END STRUCTURE EXCAVATION &
GRANULAR BACKFILL FOR STRUCTURES

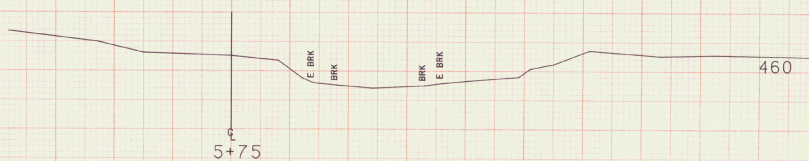
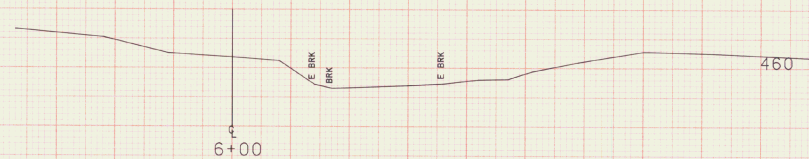
STA. 5+26 RT- END STONE FILL, TYPES I, III;
GEOTEXTILE FABRIC; GRUBBING MATERIAL;
UNCLASSIFIED CHAN. EXCAV.

STA. 5+13 RT. END STRUCTURE
EXCAVATION & GRANULAR BACKFILL
FOR STRUCTURES



FROM STA. 5+00	TO STA. 5+50
PROJECT NAME	DANBY CHAN
NO.	BRZ1441 (20)
SURVEYED BY	R. MOREAU
SHEET 24 OF 24 SHEETS	PLOTTED 03/16/89
	09/88 0161

SCALE 1" = 10 FEET



FROM STA. 5+75 TO STA. 6+00
 PROJECT NAME DANBY CHAN
 NO. BRZ1441 (20)
 SURVEYED BY R. MOREAU
 PLOTTED 03/16/89
 SHEET 25 OF 25 SHEETS

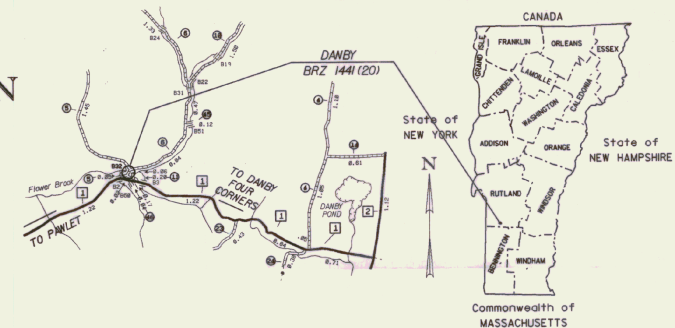
SCALE 10 FEET

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

R.O.W. PLANS

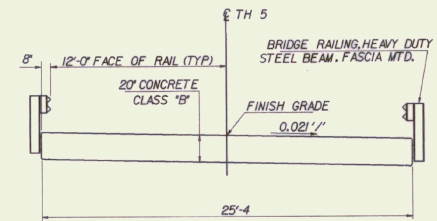


TOWN OF DANBY
COUNTY OF RUTLAND
ROUTE NO: TH 5, CL III

PROJECT LOCATION: ON TH5, BEGINNING APPROXIMATELY 0.1 MILE NORTHERLY
OF ITS INTERSECTION WITH TH 1.

PROJECT DESCRIPTION: REMOVAL OF EXISTING STRUCTURE; CONSTRUCTION OF NEW
REINFORCED CONCRETE ABUTMENTS AND SLAB WITH
NECESSARY ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 32.0 FEET
LENGTH OF PARTICIPATION ROADWAY: 218.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: 0.0 FEET
LENGTH OF PROJECT: 250.0 FEET
LENGTH OF R.O.W. PROJECT: 287.0 FEET



BEGIN R.O.W. PROJECT
STA. REV. 22+00 27' RT.

BEGIN PROJECT REV 22+00
CONSTRUCT SATISFACTORY
APPROACH

SURV TRAV PI
STA 22+33.54
SL 10+00

SURV TRAV PI
STA 21+46.11
REV POT
STA 21+46.11

SURV TRAV PI
20+00

SL TRAV POT
STA 11+36.93

CHAN POT
3+88.19

BEGIN BRIDGE
REV 23+27.5

SURV TRAV PI
STA 24+16.18

END BRIDGE
REV 23+59.5

END PROJECT REV 24+50
CONSTRUCT SATISFACTORY
APPROACH

REV PI STA
24+31.59 BK
24+28.22 AH

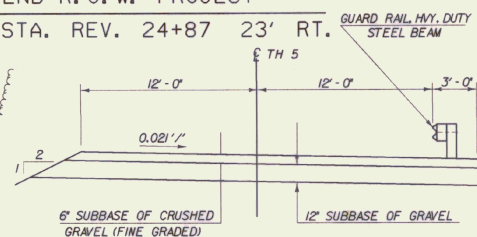
REV PC 23+25.74

REV PT 25+34.07

SURV TRAV POT
STA 26+08.19

END R.O.W. PROJECT
STA. REV. 24+87 23' RT.

SCALE 1/4" = 1'-0"



SCALE 1/4" = 1'-0"

SCALE 1" = 40'-0"

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	---
SLOPE OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	---
HORIZONTAL	---

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE AGENCY SECRETARY.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1985
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

APPROVED: *[Signature]* DATE: 11/2/90
Director of Planning

APPROVED: *[Signature]* DATE: _____
Chief Property Administration

DANBY
BRZ 1441(20)
R.O.W. SHEET 1 OF 4 SHEETS

FINAL HYDRAULIC DATA

Drainage Area = 6.44 Sq. Mi.
 $Q_{2.33} = 350$ cfs HW. Elev. = 461.2
 $Q_{10} = 760$ cfs " " = 463.1
 $Q_{25} = 1000$ cfs " " = 464.0
 $Q_{50} = 1200$ cfs " " = 464.7
 $Q_{100} = 1400$ cfs " " = 465.4
 Tailwater Depth @ $Q_{25} = 4.1'$
 Outlet Velocity @ $Q_{50} = 8.4$ fps

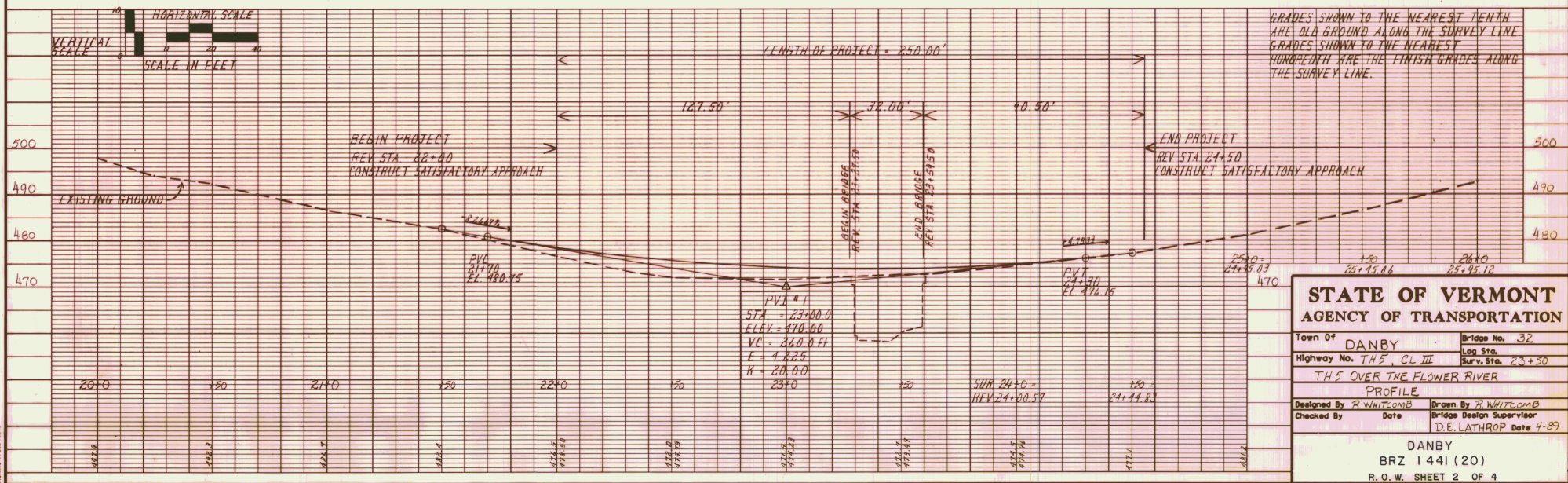


TABLE OF PROJECT PROPERTY ACQUISITION

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

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1A	HAUSER, FREDERICK V. HAUSER, JUNE J.	4	REV. 22+50 LT. REV. 22+30 LT. REV. 22+44 LT.	REV. 23+05 LT. REV. 22+71 LT.	0.02A±		DRIVE DETOUR (T) 0.01A±	W00E	7-17-90	DANBY	44	205-207	783 S.F. ± 270 S.F. ±			MyLars to Structures 7-26-90			
1B			REV. 22+73 RT. REV. 22+67 RT. REV. 22+67 RT.	REV. 24+26 RT. REV. 22+98 RT. REV. 22+87 RT.	0.13A±		CONST. SLOPE (T) 270 S.F. ± (T) 198 S.F. ±												
1C			REV. 22+00 RT. REV. 22+14 RT.	REV. 22+20 RT. REV. 22+22 RT.			CONST. SLOPE (T) 170 S.F. ± (T) 20 S.F. ±												
2A	BROWN, CORY J. & BIANCA H.	4	REV. 22+71 LT. REV. 22+69 LT.	REV. 24+00 LT. REV. 24+70 LT.	0.06A±		DETOUR (T) 0.09A±	W00E	5-14-90	DANBY	44	95-6	2630 S.F. ± 3875 S.F. ±						
2B			REV. 23+60 RT. REV. 24+47 RT.	REV. 24+50 RT. REV. 24+87 RT.	0.04A±		CONST. (T) 140 S.F. ±						1707 S.F. ±						
3	CONTINENTAL TELEPHONE COMPANY OF VT.												UTILITY						
4	CENTRAL VT. PUBLIC SERVICE CORPORATION												UTILITY						

ACCT: RYAN
2PM70V18T.J460.DGN
PRG: RTJ460.DPR
DATE PLOTTED 19-JAN-1990

DR. (T)- DRAINAGE RIGHT
DIT. (T)- DITCHING RIGHT
CH. (T)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (T)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND

--- CONST. (T) ---
SR SR
P L
△ △ △
○ ○ ○

CONSTRUCTION EASEMENT
SLOPE RIGHTS
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

APPROVED: LAWRENCE BLISS, L.S. DATE: 1-18-90
AGENT D, PLANS & TITLES

R. O. W. PLANS

DANBY
BRZ 1441 (20)
SHEET 3 OF 4

