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LIST OF STANDARDS

12-15-16R
4-1-20R
10-22-81
6-5-77R
6-5-75R
7-26-81
5-15-76R
6-25-81R
12-16-80R
1-19-81R
12-28-81
12-28-81
4-3-75R
1-3-79R
1-15-76R
1-27-75R

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF BRADFORD
COUNTY OF ORANGE

CONTRACTOR - BLOW & COTE INC.
CONTRACT DATED - APRIL 27, 1982
CONSTRUCTION BEGAN - APRIL 27, 1982
CONST. COMPLETED - DEC. 3, 1982
CONST. ACCEPTED - DEC. 3, 1982
RESIDENT ENG - L. RESSIER
RECORD PLANS - D.F. MAHONEY

ROUTE NO: VT. 25 BRIDGE NO: 5

PROJECT LOCATION: ON VT. RTE. 25, 2.1 MILES NORTH OF THE
JUNCTION OF VT. RTE. 25 AND VT. RTE. 25 B.

PROJECT DESCRIPTION: REMOVAL OF EXISTING SUPERSTRUCTURE
CONSTRUCTION OF A NEW PLATE GIRDER BRIDGE ON EXISTING
SUBSTRUCTURE, REPAIR OF CONCRETE IN ABUTMENTS AND
PIER, AND NECESSARY APPROACH WORK.

LENGTH OF STRUCTURE: 207.34 FEET
LENGTH OF PARTICIPATION ROADWAY: 392.66 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: 000 FEET
LENGTH OF PROJECT: 600.00 FEET

MATERIALS - SHEET 2

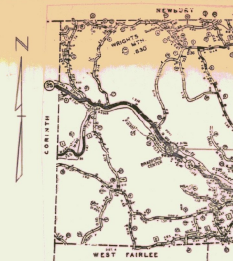
NOTE: ANY FURTHER INFORMATION CONCERNING
FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS
RELATIVE TO THIS PROJECT MAY BE FOUND IN
EITHER THE FIELD BOOKS OR THE ESTIMATE
FILE.

HYDRAULIC DATA

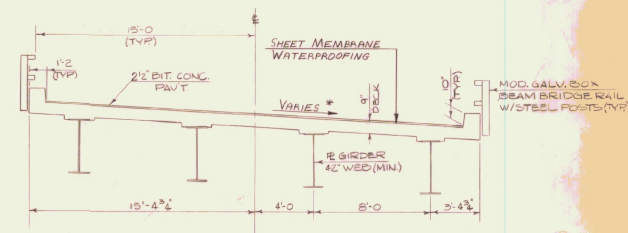
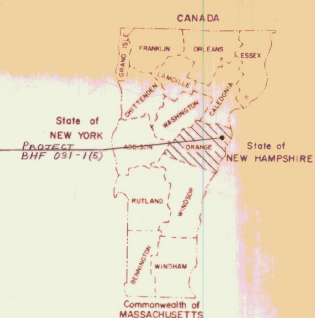
DRAINAGE AREA = 131.88 SQ. MI.
Q10 = 6500 CFS; HW ELEV. = 517.6;
VELOCITY = 10.2 FPS
Q25 = 9000 CFS; HW ELEV. = 518.9;
VELOCITY = 11.4 FPS
Q50 = 11,000 CFS; HW ELEV. = 519.9;
VELOCITY = 12.3 FPS
Q100 = 14,000 CFS; HW ELEV. = 521.2;
VELOCITY = 13.5 FPS
TAILWATER ELEV. @ Q50 = 519.3

1980 ADT = 2120
1980 DHV = 295 D = 58% (WB)
1990 ADT = 2570 T = 10% (DHV)
1990 DHV = 365
DESIGN SPEED = 45 MPH

TRAFFIC DATA



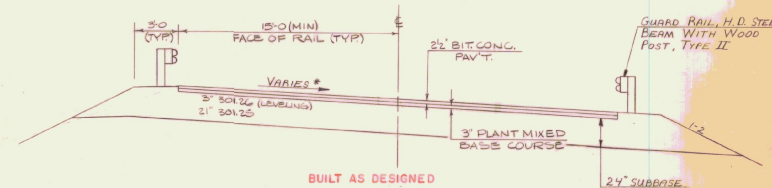
LOCATION MAP
(TRACED FROM COUNTY MAP)



TYPICAL BRIDGE SECTION

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

* SEE SUPERELEVATION DIAGRAM ON
SHEET 18.



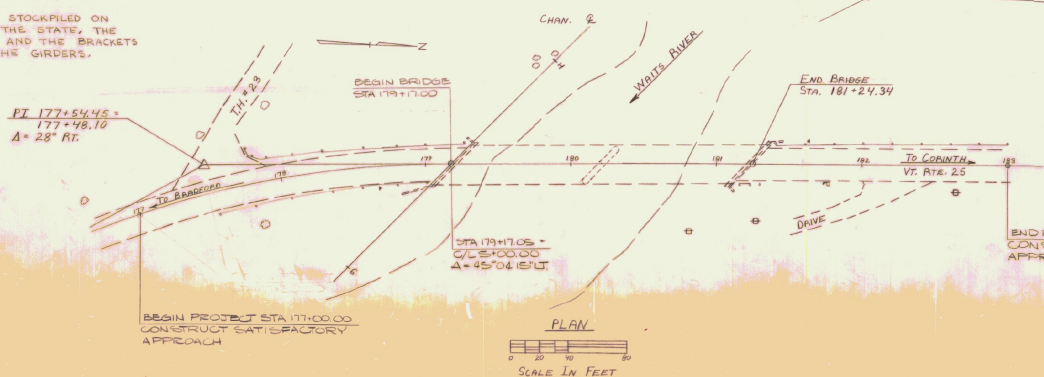
TYPICAL ROADWAY SECTION

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

NOTE: TYPICAL ROADWAY SECTION APPLIES
TO STA. 177+42.5 TO 179+17 AND
STA. 181+25 TO 182+25. SEE
ROADWAY CROSS SECTIONS FOR
DETAILS ON BOX CUTS.

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	---
PRIORITY LINE	---
ROW TAKING LINE	---
SLOPE RIGHTS	○ 3R ○
TOP OF CUT	○
TOE OF SLOPE	○

DATUM	VERTICAL	ASSUMED
	HORIZONTAL	N.A.



SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED: <i>SJA</i>	DATE: MAY 14, 1982
DIR. OF ENGINEERING AND CONSTRUCTION	
PROJECT NO. BRADFORD	BRF 031-105
SHEET 1 OF 42 SHEETS	

[illegible]

QUANTITY BREAKDOWN														TOTAL	FINAL
NO.	ITEM	UNIT	SUPER- STRUCTURE	ABUTMENT NO. 1	ABUTMENT NO. 2	PIER	CHANNEL	ROADWAY							
202.20	REMOVAL OF EXISTING SUPERSTRUCTURE	EACH						1						1	1
202.35	REMOVAL OF EXISTING CONCRETE OR MASONRY	C.Y.		14	15	5								32	31.82
202.40	REMOVAL & DISPOSAL OF EXISTING GUARDRAIL	L.F.						423						423	478
203.15	COMMON EXCAVATION	C.Y.						1185						1185	996
203.46	SOLID ROCK EXCAVATION (ESTIMATED)	C.Y.						40						40	2.9
203.27	UNCLASSIFIED CHANNEL EXCAVATION	C.Y.					80							80	0
203.30	EARTH BORROW (ESTIMATED)	C.Y.						100						100	0
204.25	STRUCTURE EXCAVATION	C.Y.		150	80									230	227.9
204.30	GRANULAR BACKFILL FOR STRUCTURES	C.Y.		130	50									180	150
301.25	CRUSHED GRAVEL FOR SUBBASE (COARSE GRADED)	C.Y.						970						970	1001
301.26	CRUSHED GRAVEL FOR SUBBASE (FINE GRADED)	C.Y.						140						140	0
303.25	PLANT MIXED BASE COURSE	Tons						242						242	189.3
306.10	OVERHAUL (3/4 MILES)	S.M.		403	153									556	0
406.25	BITUMINOUS CONCRETE PAVEMENT	Tons	93					207						300	375.5
501.20	CONCRETE, CLASS A	C.Y.	219											219	222.22
501.25	CONCRETE, CLASS B	C.Y.		78	43	6								127	119.2
506.91	STRUCTURAL STEEL, PLATE GIRDER	LBS.	168,480											168,480	158,925
506.99	BEARING DEVICE ASSEMBLY	EACH	8											8	8
507.15	REINFORCING STEEL	LBS.	55,240	7,390	3,300	660								66,590	66,631
508.15	SHEAR CONNECTORS (171# 96"x7 WELDED STUDS)	L.S.	1											1	1
514.10	WATER REPELLENT	Gal.	25	5	5	6								39	21.8
519.20	SHEET MEMBRANE WATERPROOFING	S.Y.	674											674	679
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (ESTIMATED)	HR.						20						20	0
613.11	STONE FILL, TYPE II	C.Y.						140						140	119.1
617.30	BRIDGE RAILING, GALVANIZED BOX BEAM (MOD.)	L.S.	422											422	421.1
621.35	HEAVY DUTY STEEL BEAM GUARD RAIL W/WOOD POSTS, TYPE II	L.F.						284						284	269
621.54	TEMPORARY BARRIER RAIL	L.F.						710						710	775.5
621.70	ANCHOR FOR STEEL BEAM GUARD RAIL W/WOOD OR STEEL POSTS AT OPENINGS	EACH						1						1	1
621.77	BREAKAWAY CABLE TERMINAL FOR GUARDRAIL, STEEL BEAM W/WOOD POSTS, TYPE II	EACH						3						3	3
621.90	GUARDRAIL APPROACH SECTION, TYPE I	EACH						4						4	4
631.10	FIELD OFFICE - ENGINEER	L.S.						1						1	1
635.10	MOBILIZATION	L.S.						1						1	1
638.10	ONE-WAY TEMPORARY BRIDGE	L.S.													

Prepared by: <u>W. FLANDERS JR.</u>	Checked by: <u>G. SCHELLEY</u>	<u>BRADFORD</u>	PROJECT NO. <u>BRF 031-1(5)S</u>
SUPERVISOR: <u>R.L. Dotley 2-02</u>	BR <u> </u> OF <u> </u>	SHEET NO. <u>2</u>	OF <u>42</u>

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
1	KENTON, CHARLES A. & FANNIE E.	3	178+00 LT. 178+25 LT.	180+30 LT. 178+70 LT.			CONST. EASE. (T) SLOPE (T)	(0.14 A±) (50 SF±)	AGREE.				
2	CORTI, LENA	3	181+00 LT. 181+50 LT. 181+63 LT.	183+00 LT. 181+83 LT. 181+77 LT.			CONST. EASE. (T) CHANNEL (P) SLOPE (T)	(0.10 A±) (40 SF±) (15 SF±)	WDOE				
3	TOWN OF BRADFORD	3	177+15 LT.	178+25 LT.			CONST. APPROACH (T)		AGREE.				TJ. 23

TABLE OF REVISIONS

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

MADE BY: 8 A. MELVIN DATE 10-6-81

CHECKED BY: J.D. PATERSON DATE 10-6-81

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 L ---/	TAKING WITHOUT ACCESS ALONG PROPERTY LINES	
-----	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

	CONST. EASEMENT
	SLOPE RIGHTS
	PROPERTY LINE
	TOP OF CUT
	TOE OF SLOPE

APPROVED Thomas P. Mayo DATE 10-7-21
CHIEF OF PLANS & TITLES

PROJECT BRADFORD
NO. BRF 031-1 (5)S
SHEET 3 OF 5

PLAN
BRIDGE
BRF 031-1(5)S
SHEET 4 OF 42

CONSTRUCT T.H. 23 APPROACH
STA. 177+50 LT.

BRIDGE RAILING BOX BEAM: 617.30
LT. 179+32 ~ 181+40 RT. 179+02 ~ 181+10

CONSTRUCT DRIVE
STA. 182+20 RT

HEAVY DUTY STEEL BEAM G.W.
WOOD POSTS TYPE II: 621.86

BOX BEAM GUARD RAIL: 621.45

EXISTING BRIDGE DATA
2-102' SPANS, 207' OVERALL
PLATE GIRDER, BUILT 1939
8' CLEAR HEIGHT
24" CURB TO CURB

TOWN OF BRADFORD

KENYON, CHARLES A. & FANNIE E.

CORTI, LENA

T.B.M. #2
END OF WING
E.L. 530.12

REMOVAL AND DISPOSAL OF EXISTING S.R.; 202.40

CONST. EASE (T)

BEGIN BRIDGE STA. 179+17.06
C/L 1800.00
Δ = 45° 04' 15" LT

END BRIDGE STA. 181+24.15
P.O.T. STA. 181+24.15

STONE FILL TYPE II
(SEE NOTE 4, SHEET 1)

FACE OF GUARD RAIL

18' N 2° 00' W
VT. RTE. 25

END PROJECT STA. 183+00.00
CONSTRUCT SATISFACTORY
APPROACH

CURVE DATA
D = 25' ON R.
Δ = 63.62°
T = 158.73'
L = 371.11'
E = 12.49'

GUARD RAIL BOX
BEAM WITH STEEL
POSTS (TYP) SEE
STD. GID FOR DETAILS

CHAN. 5-75.30

STONE FILL
TYPE II (SEE
NOTE 4, SHEET 1)

NOTE

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

* THE DISTRICT WILL CONTINUE ITEMS
202.40 AND G.U. 25 BEYOND STA. 182+40 LT.
AS FAR AS NECESSARY.

END R.O.W. PROJECT
BRF 031-1(5)S STA. 183+00 C

BEGIN R.O.W. PROJECT
BRF 031-1(5)S STA. 177+00 C

PLAN
0 10 20

T.B.M. #1
STA. 176+45
80' AT CORNER
OF BUCKWELL
E.L. 528.01

P.G. 175+95.72

P.O.T. 184+50.00

P.T. 185+36.40

PROFILE
BRIDGE
BRF 031-1(5)S
SHEET 4 OF 42

CONSTRUCT
SATISFACTORY
APPROACH

LENGTH OF FOOTING = 60'

BRIDGE LENGTH = 227.35'

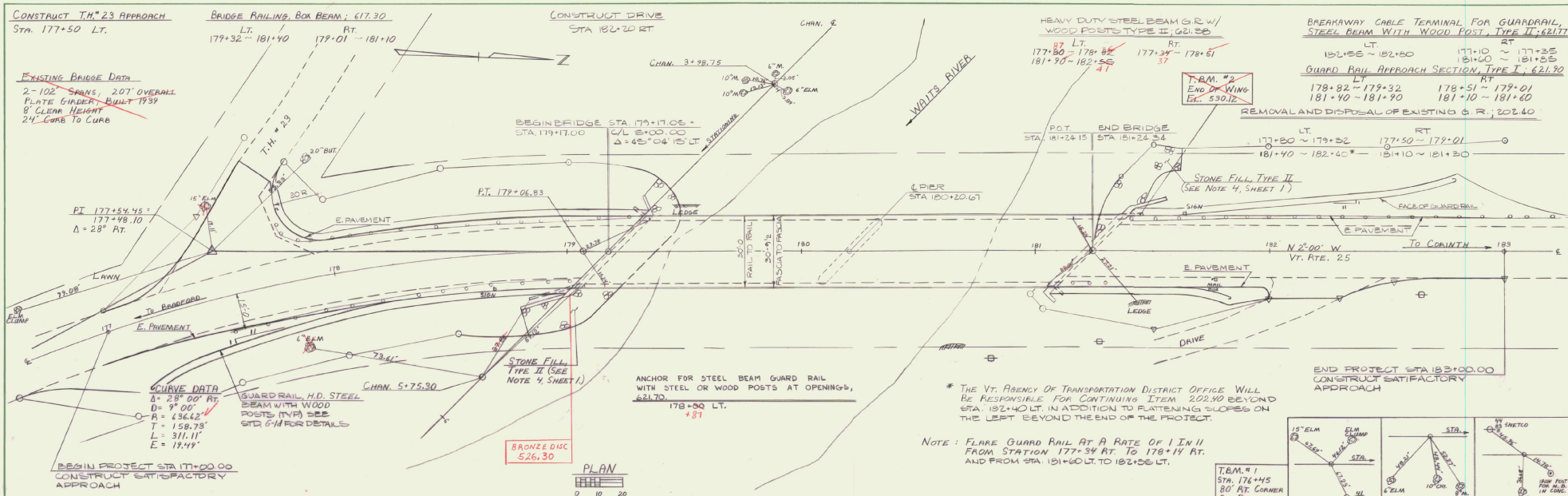
CONSTRUCT
SATISFACTORY
APPROACH

BRIDGE DESIGN SUPERVISOR
R.L. DOLLEY 2-82

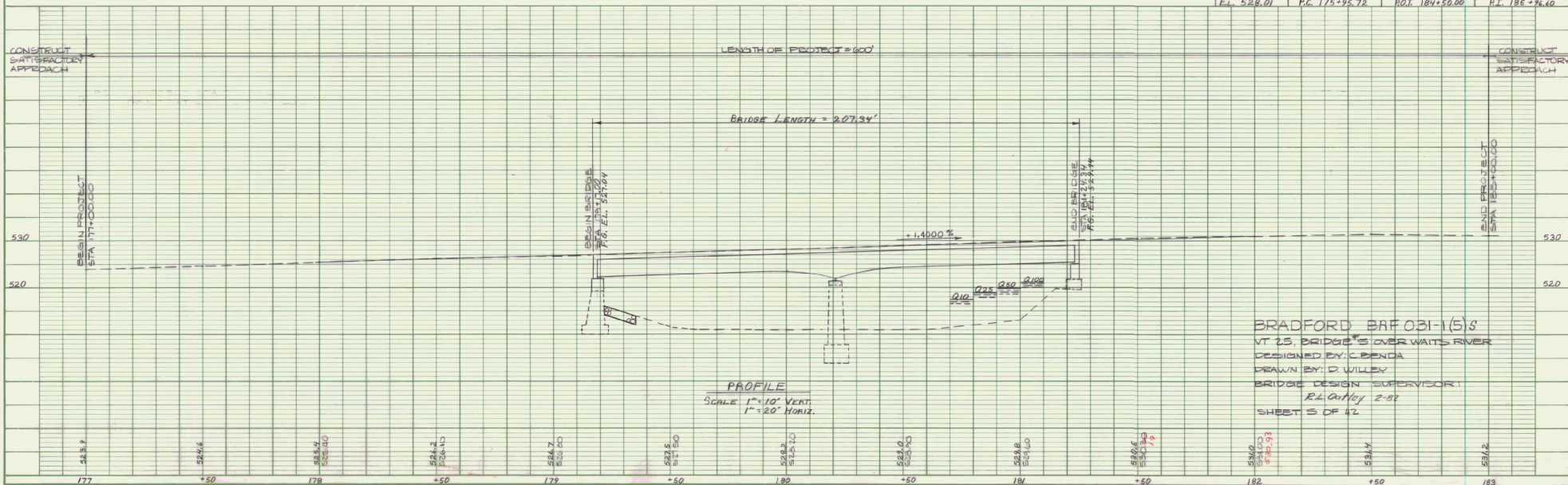
PROFILE
SCALE 1" = 10' VERT.
1" = 20' HORIZ.

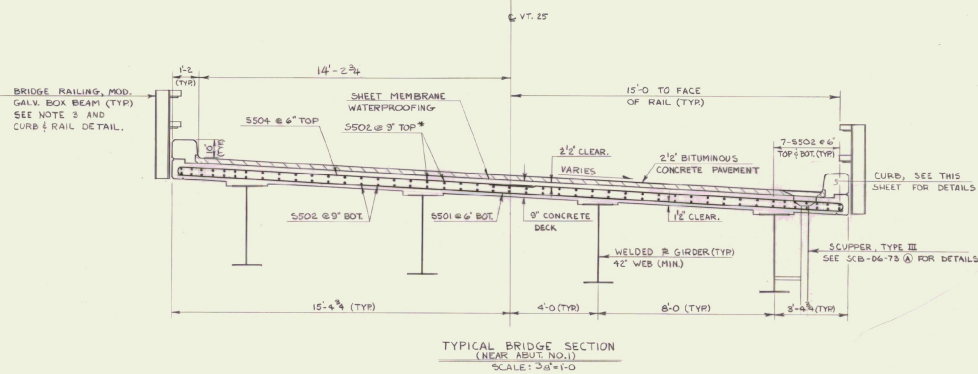
BRADFORD BRF 031-1(5)
VT 25, BRIDGE OVER WAITS RIVER
DESIGNED BY L. BENITA
DRAWN BY D. WILLY
BRIDGE DESIGN SUPERVISOR
R.L. DOLLEY 2-82
SHEET 4 OF 42

PLAN	DATE	1/5/58
PROJECT	BRADFORD	
NOTE BOOK	DATE	1/5/58
	BY	D.W. WILLEY
	FOR	BRADFORD
	BY	D.W. WILLEY
	FOR	BRADFORD

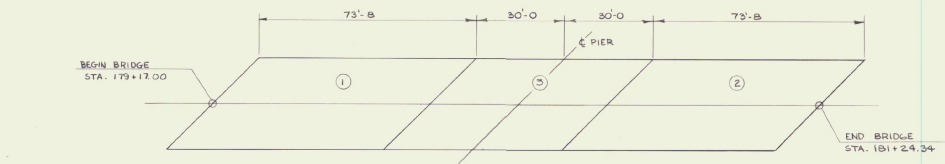


PROFILE	DATE	1/5/58
PROJECT	BRADFORD	
NOTE BOOK	DATE	1/5/58
	BY	D.W. WILLEY
	FOR	BRADFORD
	BY	D.W. WILLEY
	FOR	BRADFORD

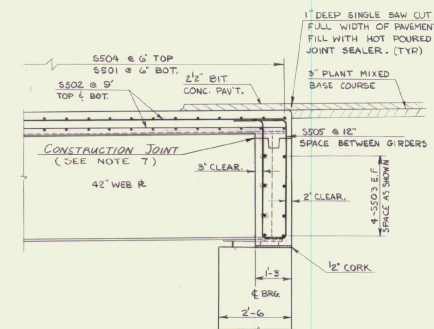
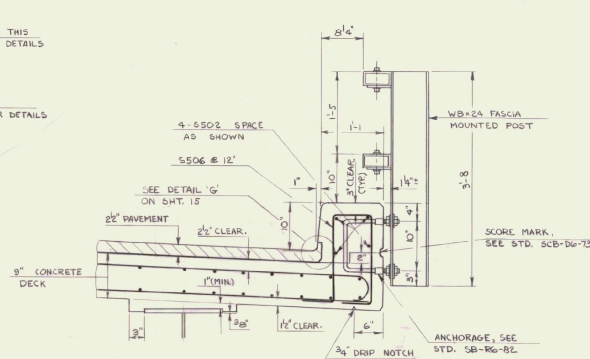




* AT 21'-6" FROM & PIER CHANGE 5502 @ 9" TOP & BOT TO 5701 @ 9" TOP AND 5502 @ 9" BOT. SEE ALSO DECK REINFORCING PLAN.



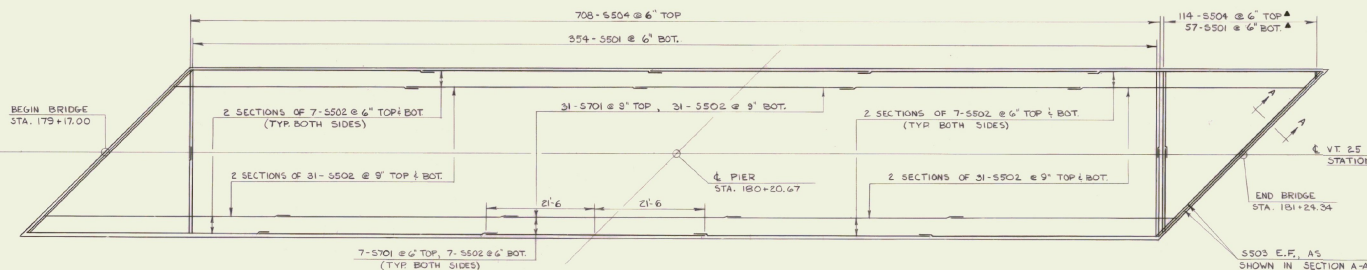
NOTE: A 5 DAY CURING PERIOD IS REQUIRED BETWEEN POURS.



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

NOTES

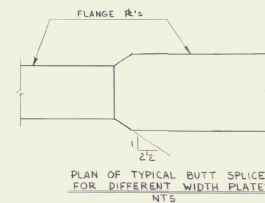
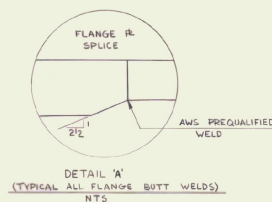
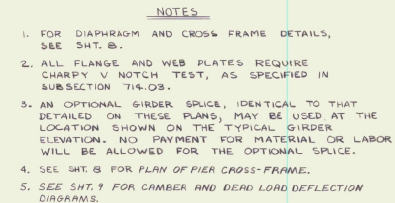
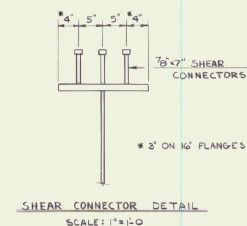
- SEE SHT. 7 FOR LOCATIONS OF SCUPPERS.
- FOR ADDITIONAL CURB DETAILS, SEE SHT. 15.
- FOR FURTHER RAIL DETAILS, SEE STD. SB-R6-82 AND SB-R4-82.
- SEE SHT. 18 FOR SUPERELEVATION DETAILS.
- PAYMENT FOR ALL MATERIALS AND LABOR FOR HOT POURED JOINT SEALER, AS DETAILED ABOVE, SHALL BE SUBSIDIARY TO ITEM 406.25, BITUMINOUS CONCRETE PAVEMENT.
- FOR CURTAIN WALL BOX OUT AT BEARING DEVICE DETAILS, SEE SHT. 9 AND SCB-D9-71.
- THE CURTAIN WALL SHALL BE ALLOWED TO CURE FOR A PERIOD OF 5 DAYS BEFORE THE ADJACENT SECTION OF DECK IS POURED.



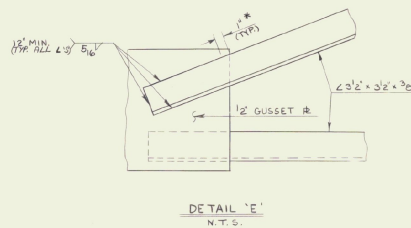
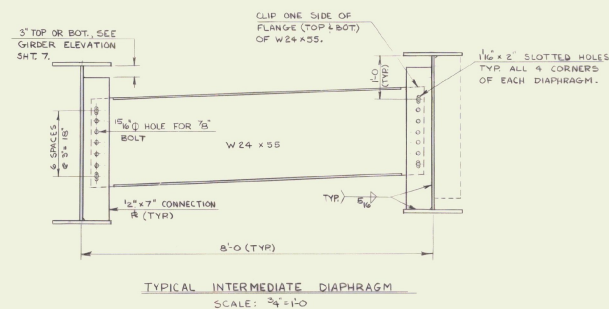
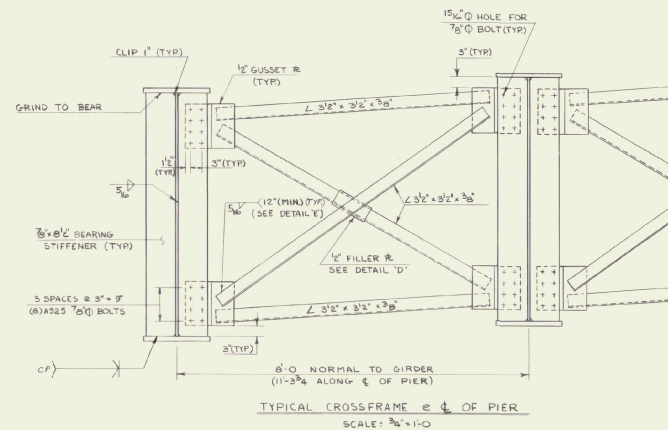
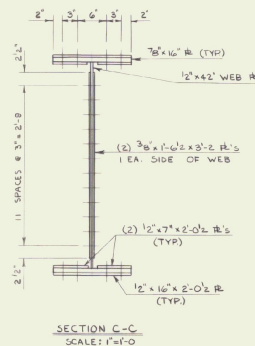
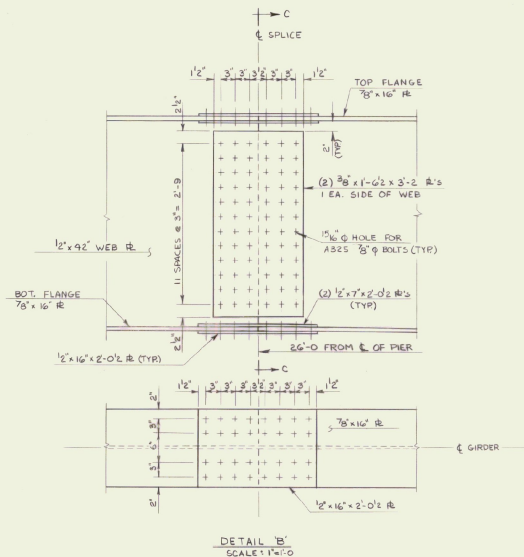
▲ CUT TO FIT. USE CUTOFFS ON OPPOSITE END.

STATE OF VERMONT AGENCY OF TRANSPORTATION

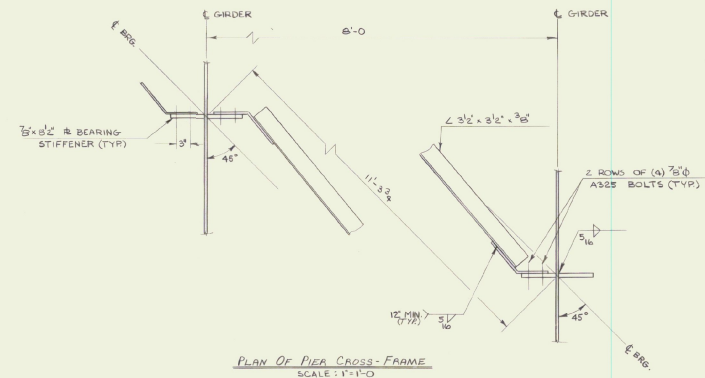
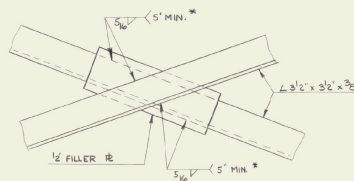
TOWN OF BRADFORD	Bridge No. 5
Highway No. VT. 25	Log Sta.
	Surv. Sta. 180+20.67
VT. 25 OVER WAITS RIVER	
SUPERSTRUCTURE DETAILS	
Designed by C. BENDA	Drawn by G. SCHELLEY
Checked by C. BENDA	Bridge Design Supervisor
date 12/81	date 2/82
PROJECT BRADFORD	PROJECT NO. BRF 031-1(5)S
Bridge Sheet No.	Sheet 6 of 42



TOWN OF BRADFORD	Bridge No. 5
	Log Sta.
HIGHWAY NO. VT. RT. 25	Surv. Sta. 180+20.67
VT. RT. 25 OVER WAITS RIVER	
FRAMING PLAN & GIRDER DETAIL	
Designed by C. BENDA	Drawn by G. SCHELLEY
Checked by C. BENDA date 12/01	Bridge Design Supervisor E.L. O'Leary date 2/82
PROJECT BRADFORD	PROJECT NO. BRF-031-(1)S5
Bridge Sheet No.	Sheet 7 of 42



* END WELD AT ONE (1) INCH FROM EDGE OF GUSSET FILLER PLATE OR ANGLE.

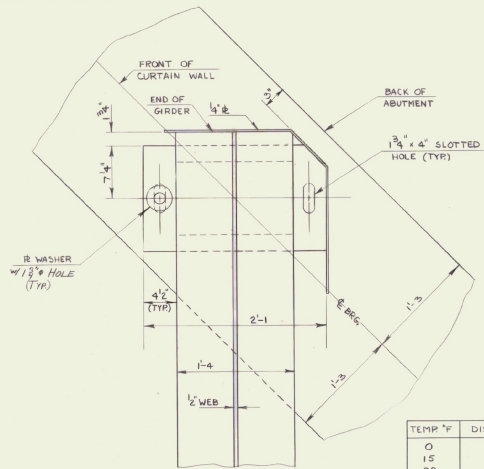


NOTES

1. ALL DIAPHRAGMS SHALL BE CONNECTED FINGER TIGHT WITH (A) A325 7/8" BOLTS THROUGH SLOTTED HOLES BEFORE THE DECK IS POURED. AFTER THE CONCRETE HAS BEEN PLACED, THE REMAINING BOLTS SHALL BE INSTALLED AND ALL BOLTS TIGHTENED. HARDENED WASHERS SHALL BE USED OVER SLOTTED HOLES.
2. FOR THE LOCATION OF DETAIL 'F', SEE SHT. 7.

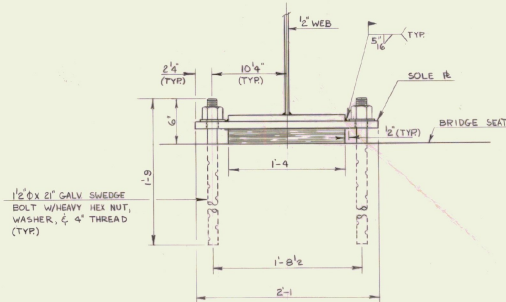
STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF BRADFORD	Bridge No. 5
HIGHWAY NO. VT 25	Log Sta.
	Surv. Sta. 190+20.67
VT. 25 OVER WAITS RIVER	
SUPERSTRUCTURE DETAILS	
Designed by C. BENDA	Drawn by G. SCHLIEVE
Checked by C. BENDA date 12/01	Bridge Design Supervisor E.L. Ostry date 2/82
PROJECT BRADFORD	PROJECT NO. BRF 031-11(5)S
Bridge Sheet No.	Sheet 3 of 42



ABUT 1 & 2 (EXP.)
LIVE LOAD REACTION = 71.0 K
DEAD LOAD REACTION = 52.5 K
TOTAL REQ. MOVEMENT = 1 3/16"
DEAD LOAD ELONGATION
OF BOTTOM FLANGE = 3/8"

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

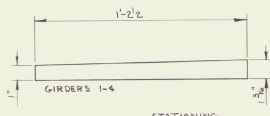


FRONT ELEVATION
SCALE: 1/2"=1'-0"

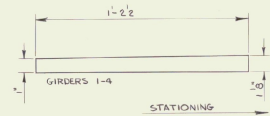
TEMP. °F	DISTANCE 'A'
0	3"
15	2 3/8"
30	2 1/2"
45	2 3/4"
60	2 1/2"
75	2 3/8"
90	2 1/4"

TEMPERATURE CHART
(EXPANSION BEARING)

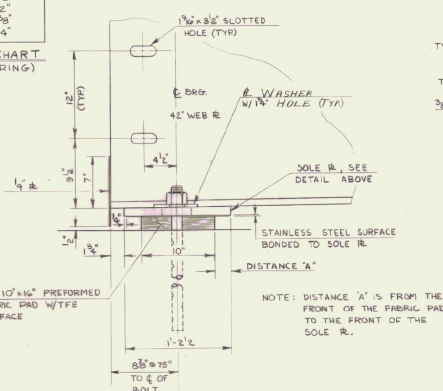
EXPANSION BEARING
(EIGHT REQUIRED)



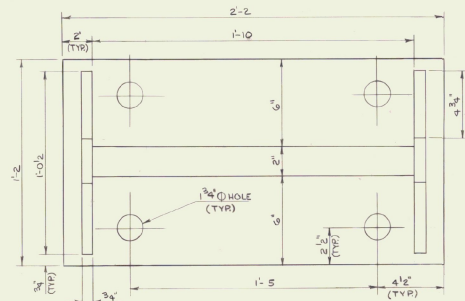
SOLE PLATE AT ABUTMENT NO. 1
SCALE: 3/4"=1'-0"



SOLE PLATE AT ABUTMENT NO. 2
SCALE: 3/4"=1'-0"

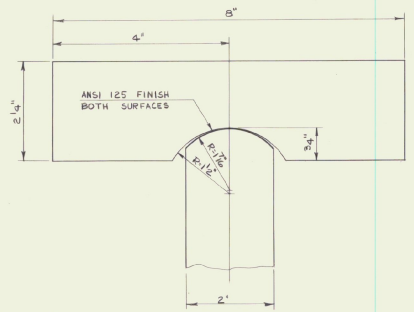


SIDE ELEVATION
SCALE: 1/2"=1'-0"

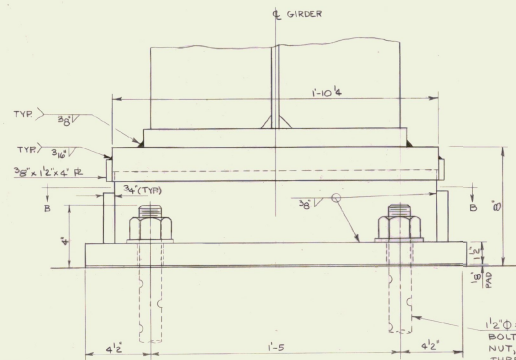


SECTION B-B
SCALE: 3/4"=1'-0"

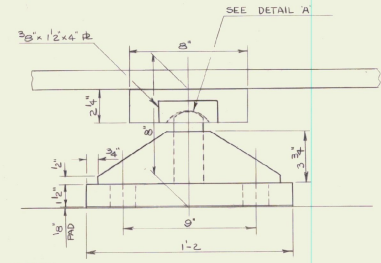
PIER (FIXED)
LIVE LOAD REACTION = 136.5 K
DEAD LOAD REACTION = 192.3 K



DETAIL 'A'
SCALE: 3/4"=1'-0"



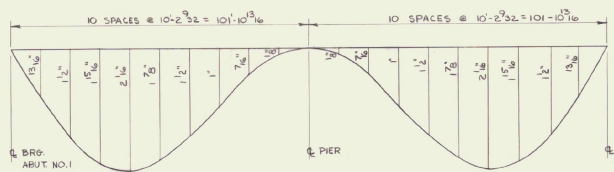
FRONT ELEVATION
SCALE: 3/4"=1'-0"



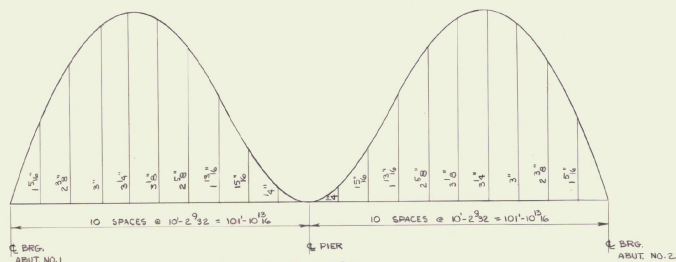
SIDE ELEVATION
SCALE: 3/4"=1'-0"

FIXED BEARING
(FOUR REQUIRED)

- NOTES
1. PAYMENT FOR EXPANSION BEARINGS SHALL BE AT THE UNIT BID PRICE FOR BEARING DEVICE ASSEMBLY.
 2. PAYMENT FOR FIXED BEARINGS WITH ANCHOR BOLTS SHALL BE AT THE UNIT BID PRICE FOR STRUCTURAL STEEL.
 3. EXPANSION BEARINGS SHALL CONFORM TO SUBSECTION 731.05.
 4. CONCRETE SURFACES UNDER BEARING SHALL BE LEVEL.
 5. ALL STEEL IN THE BEARING DEVICES SHALL BE A588 UNPAINTED, EXCEPT AS NOTED.



DEAD LOAD DEFLECTIONS
SCALE: HORIZ. = 1"=20'
VERT. = 1"=1'



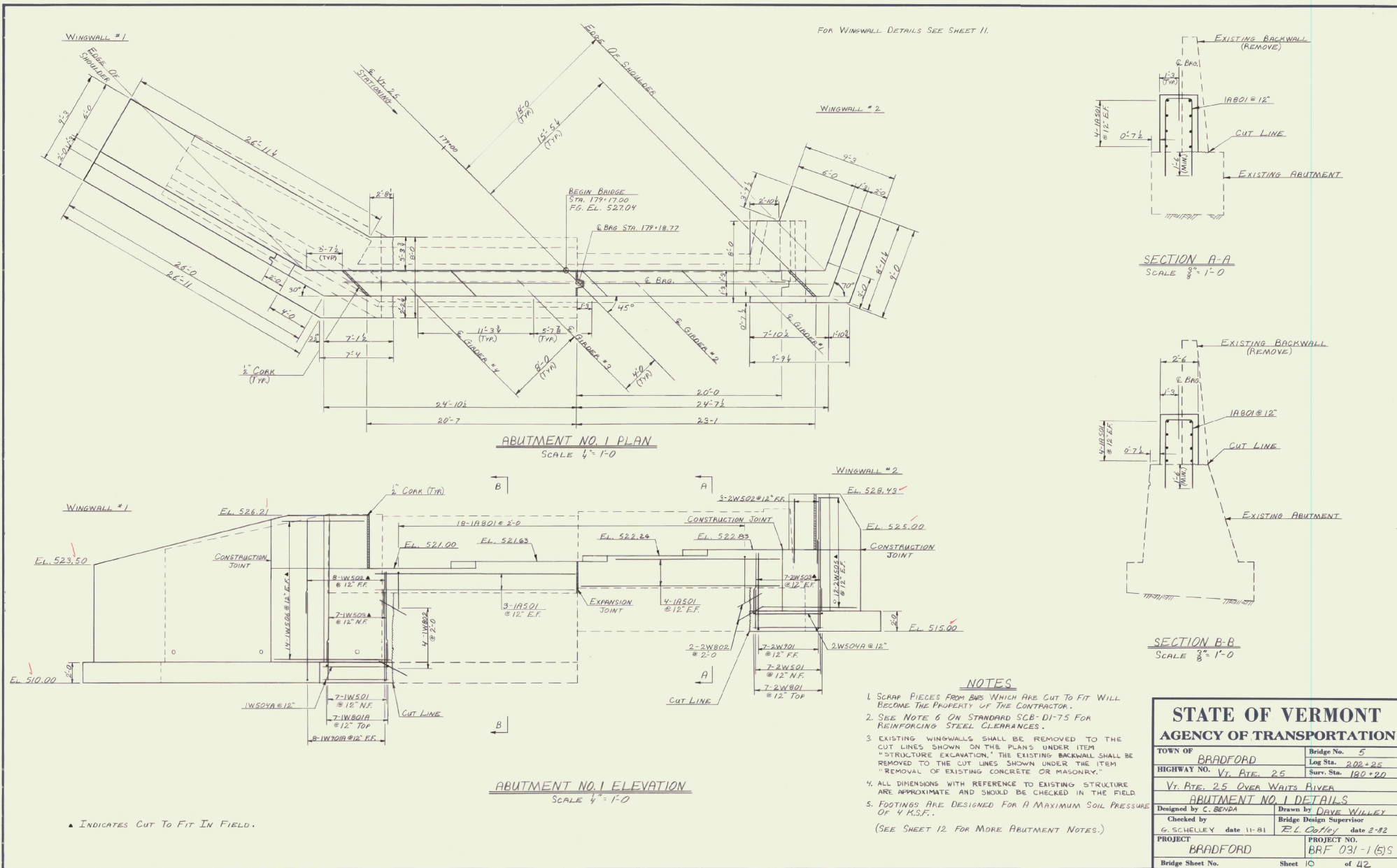
CAMBER DIAGRAM
SCALE: HORIZ. = 1"=20'
VERT. = 1"=1'

STATE OF VERMONT AGENCY OF TRANSPORTATION

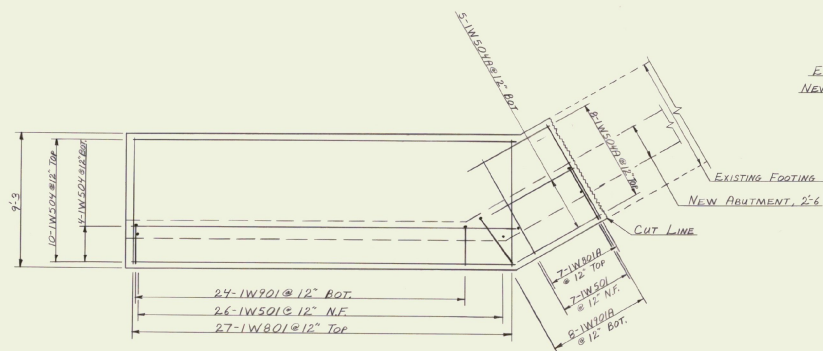
TOWN OF BRADFORD
HIGHWAY NO. VT RT 25
VT RT 25 OVER WAITS RIVER

Bridge No. 5
Log Sta.
Surv. Sta. 180+20.67
BEARING DETAILS
Designed by C. BENDA
Checked by C. BENDA
PROJECT BRADFORD
Bridge Sheet No.

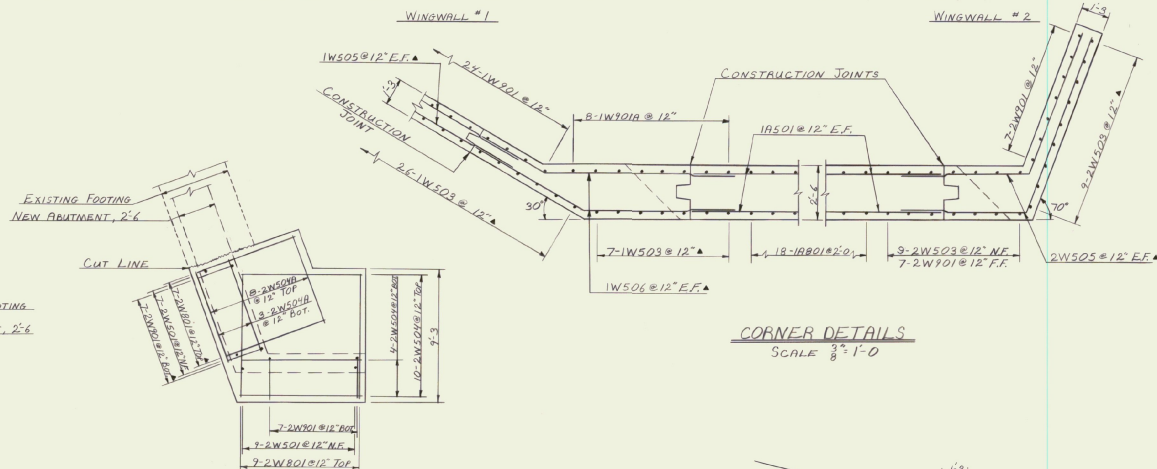
Drawn by G. SCHELLEY
Bridge Design Supervisor
Z.L. Cooley
date 12/1/14
PROJECT NO.
BRF-031-1(5) 5
Sheet 9 of 42



STATE OF VERMONT AGENCY OF TRANSPORTATION			
TOWN OF	BRADFORD	Bridge No.	5
HIGHWAY NO.	VT. RTE. 25	Log Sta.	202+25
		Surv. Sta.	180+20
VT. RTE. 25 OVER WAITS RIVER			
ABUTMENT NO. 1 DETAILS			
Designed by	C. BENDA	Drawn by	DAVE WILLEY
Checked by	G. SCHULLEY	Bridge Design Supervisor	
date	11-81	date	2-82
PROJECT	BRADFORD	PROJECT NO.	BRF 031-1(5)S
Bridge Sheet No.		Sheet	10 of 42

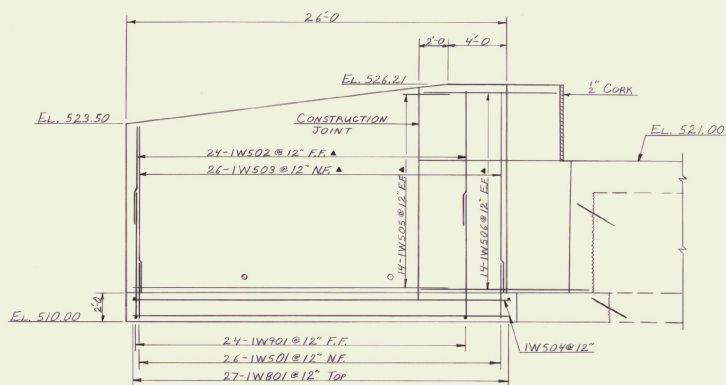


WINGWALL NO. 1

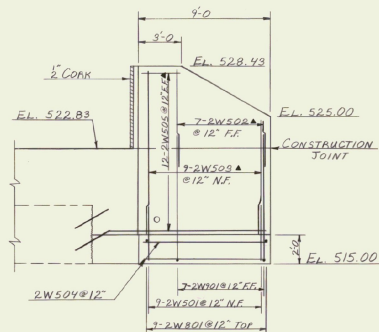


WINGWALL NO. 2

FOOTING REINFORCING PLANS
SCALE 1/4" = 1'-0"

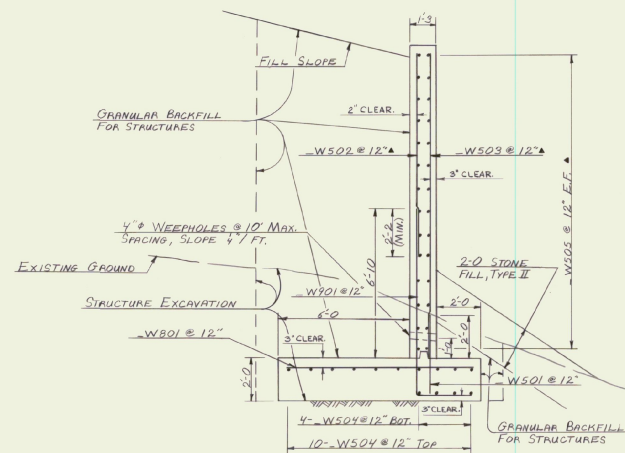


WINGWALL NO. 1 ELEVATION
SCALE 1/4" = 1'-0"



WINGWALL NO. 2 ELEVATION
SCALE 1/4" = 1'-0"

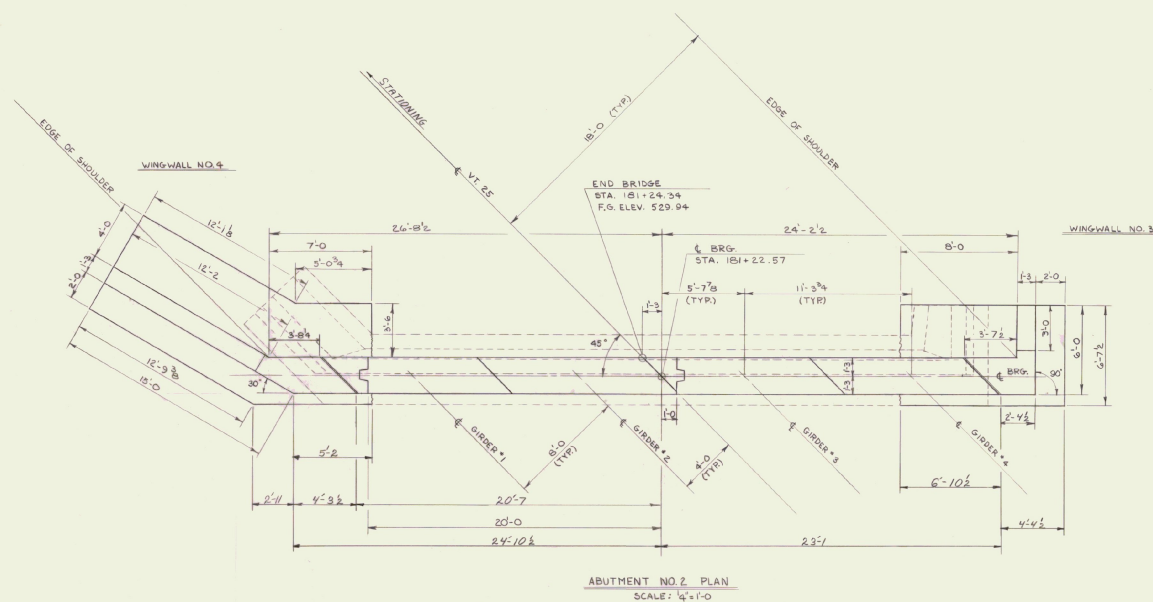
CORNER DETAILS
SCALE 3/8" = 1'-0"



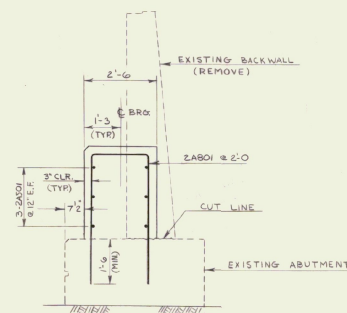
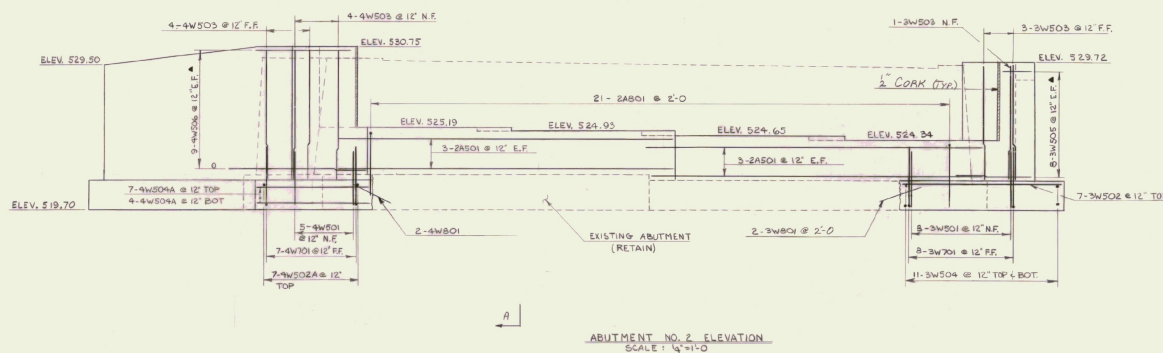
TYPICAL WINGWALL SECTION
SCALE 3/8" = 1'-0"

STATE OF VERMONT AGENCY OF TRANSPORTATION			
TOWN OF	BRADFORD	Bridge No.	5
HIGHWAY NO.	VT. RTE. 25	Log Sta.	202+25
		Surv. Sta.	180+50
VT. RTE. 25 OVER WAITS RIVER			
WINGWALLS NO. 1 & 2 - DETAILS			
Designed by	C. BENDA	Drawn by	DAVE WILLEY
Checked by		Bridge Design Supervisor	
G. SCHELLEY	date 11-91	T. L. O'NEILL	date 2-92
PROJECT	BRADFORD	PROJECT NO.	BAF 031-1(S)S
Bridge Sheet No.		Sheet 11	of 42

▲ INDICATES CUT TO FIT IN FIELD.

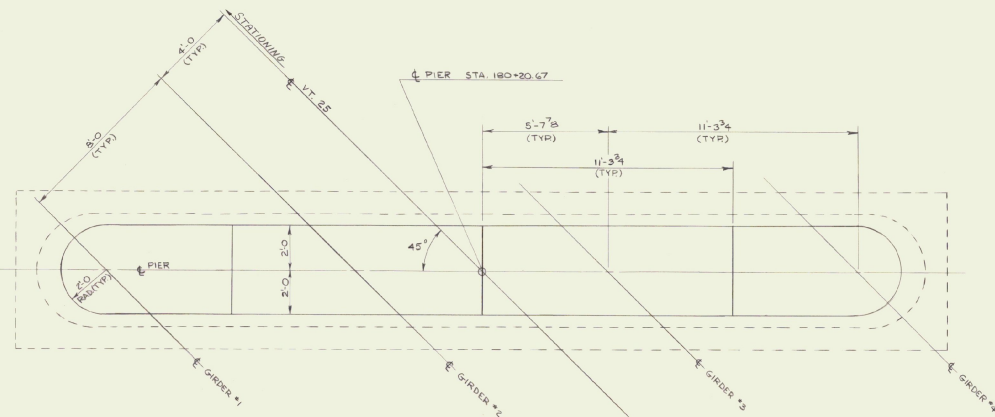


▲ INDICATES CUT TO FIT IN FIELD



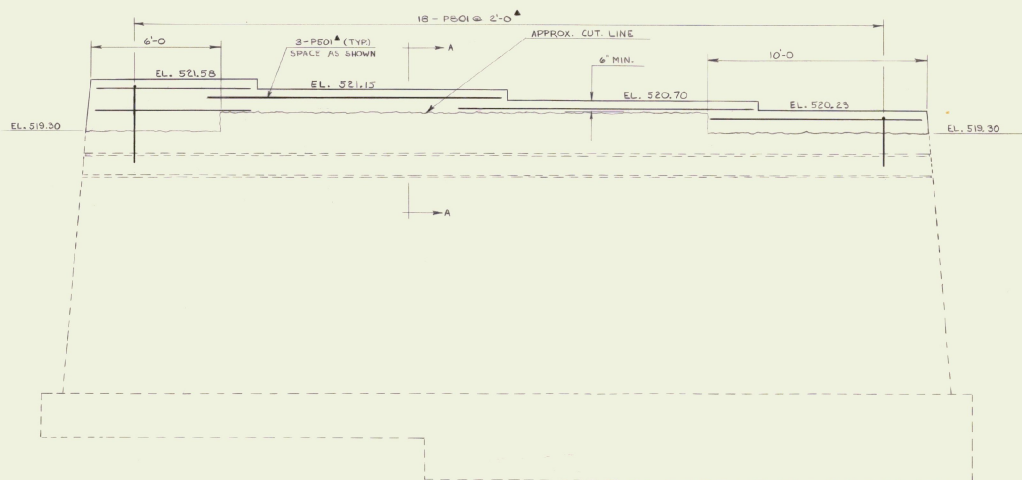
STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF BRADFORD		Bridge No. 5	
		Log Sta.	
HIGHWAY NO. VT. RT. 25		Surv. Sta. 180+20.67	
VT. RT. 25 OVER		WAITS RIVER	
ABUTMENT NO. 2 DETAILS			
Designed by C. BENDA		Drawn by G. SCHELLEY	
Checked by		Bridge Design Supervisor	
C. BENDA date 12/51		R. L. O'neil date 2-52	
PROJECT		PROJECT NO.	
BRADFORD		BRF 031-(1)S	
Bridge Sheet No.		Sheet 12 of 17	

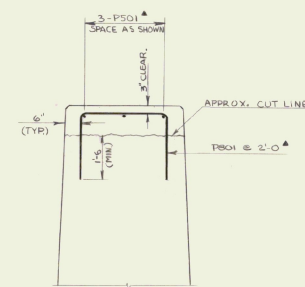


PIER PLAN
SCALE: 3/8"=1'-0"

▲ INDICATES CUT TO FIT IN FIELD



PIER ELEVATION
SCALE: 3/8"=1'-0"



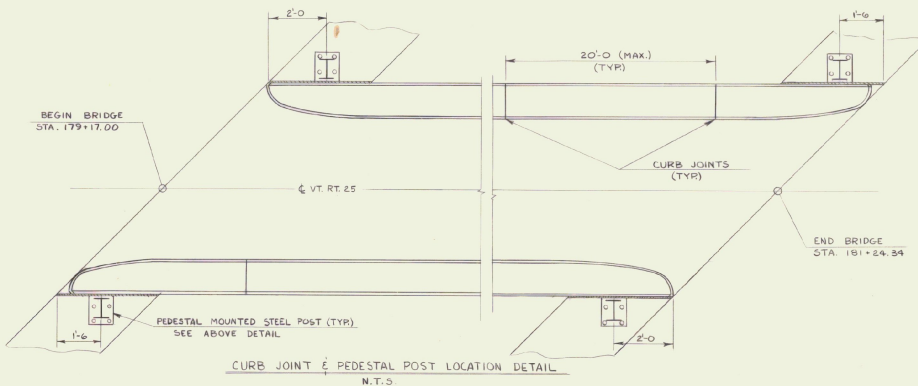
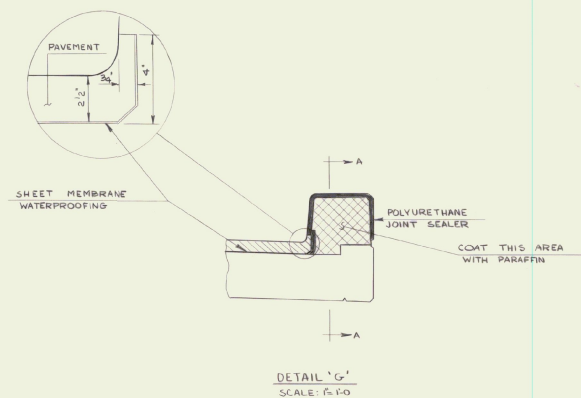
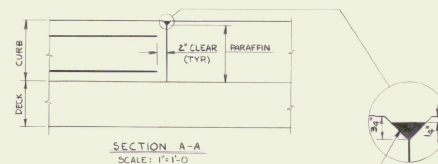
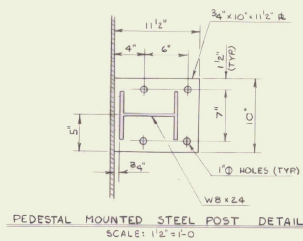
SECTION A-A
SCALE: 1/2"=1'-0"

NOTES

1. ALL LOOSE OR SPALLED CONCRETE AREAS ON THE PIER SHALL BE REMOVED TO EXISTING SOUND CONCRETE AND REPAIRED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. EXISTING CONCRETE SHALL BE REMOVED TO THE CUT LINES SHOWN OR AS DIRECTED BY THE ENGINEER. PAYMENT TO BE UNDER THE ITEM REMOVAL OF EXISTING CONCRETE OR MASONRY.

STATE OF VERMONT AGENCY OF TRANSPORTATION

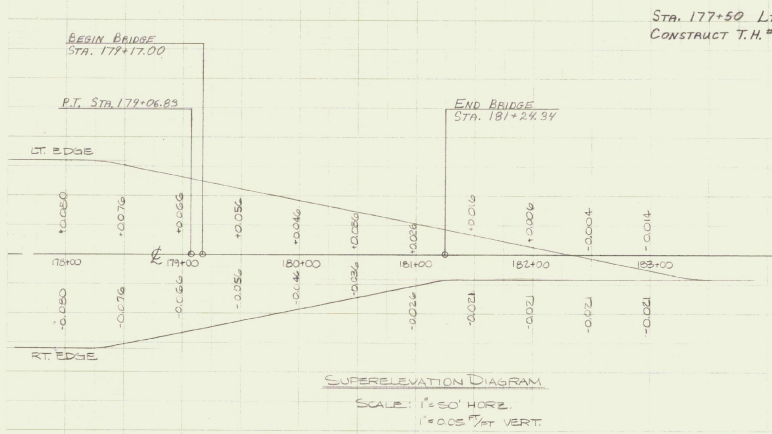
TOWN OF BRADFORD	Bridge No. 5
HIGHWAY NO. VT. RT. 25	Log Sta.
	Surv. Sta.
VT. RT. 25 OVER WAITS RIVER	
PIER DETAILS	
Designed by C. BENDA	Drawn by G. SCHELLEY
Checked by G. BENDA	Bridge Design Supervisor
date 12/5/1	date 2-8-2
PROJECT BRADFORD	PROJECT NO. BRF 051-1(5)S
Bridge Sheet No.	Sheet 4 of 42



- ### NOTES
1. PAYMENT FOR POLYURETHANE JOINT SEALER AND PARAFFIN SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE ADJACENT CONCRETE.
 2. FOR THE LOCATION OF DETAIL 'G', SEE SHT. 6.
 3. BRIDGE CURB SECTIONS ARE TO BE A MINIMUM OF 20'-0". CURB JOINTS SHALL BE SPACED 1'-0" MINIMUM FROM ADJACENT RAIL POSTS. CONCRETE SHALL BE PLACED IN ALTERNATE SECTIONS WITH A MINIMUM OF 48 HOURS BETWEEN POURS.
 4. PAYMENT FOR PEDESTAL MOUNTED STEEL POST SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ITEM "BRIDGE RAILING GALVANIZED BOX BEAM (MOD.)".

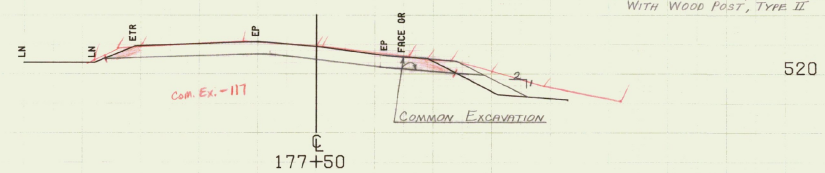
STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF	BRADFORD	Bridge No.	5
		Log Sta.	
HIGHWAY NO.	VT. RT. 25	Surv. Sta.	160+20.67
VT. RT. 25 OVER WAITS RIVER			
CURB AND RAILING DETAILS			
Designed by	C. BENDA	Drawn by	G. SCHELLEY
Checked by	C. BENDA	Bridge Design Supervisor	
PROJECT	BRADFORD	DATE	04/18/82
		PROJECT NO.	BRF 051-11(S)
Bridge Sheet	Sheet	15	of 42

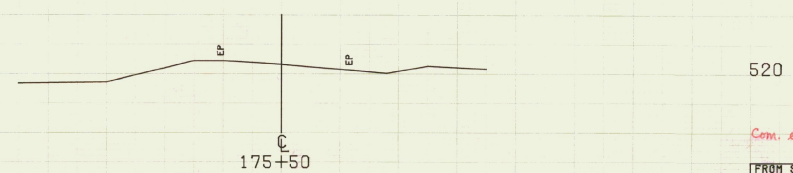
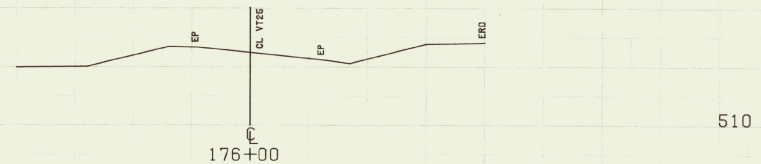
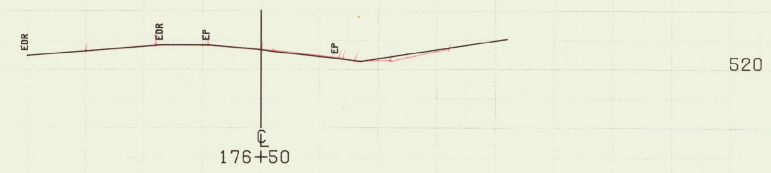
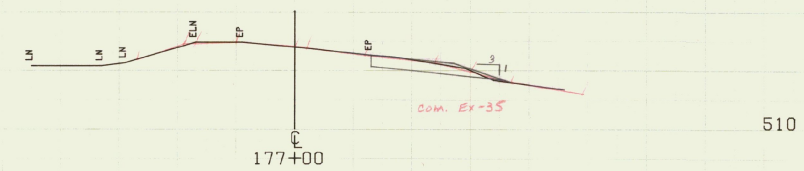


Sta. 177+50 LT.
CONSTRUCT T.H. = 23 APPROACH

Sta. 177+10 RT.
BEGIN GUARD RAIL, H.D. STEEL BEAM
WITH WOOD POST, TYPE II



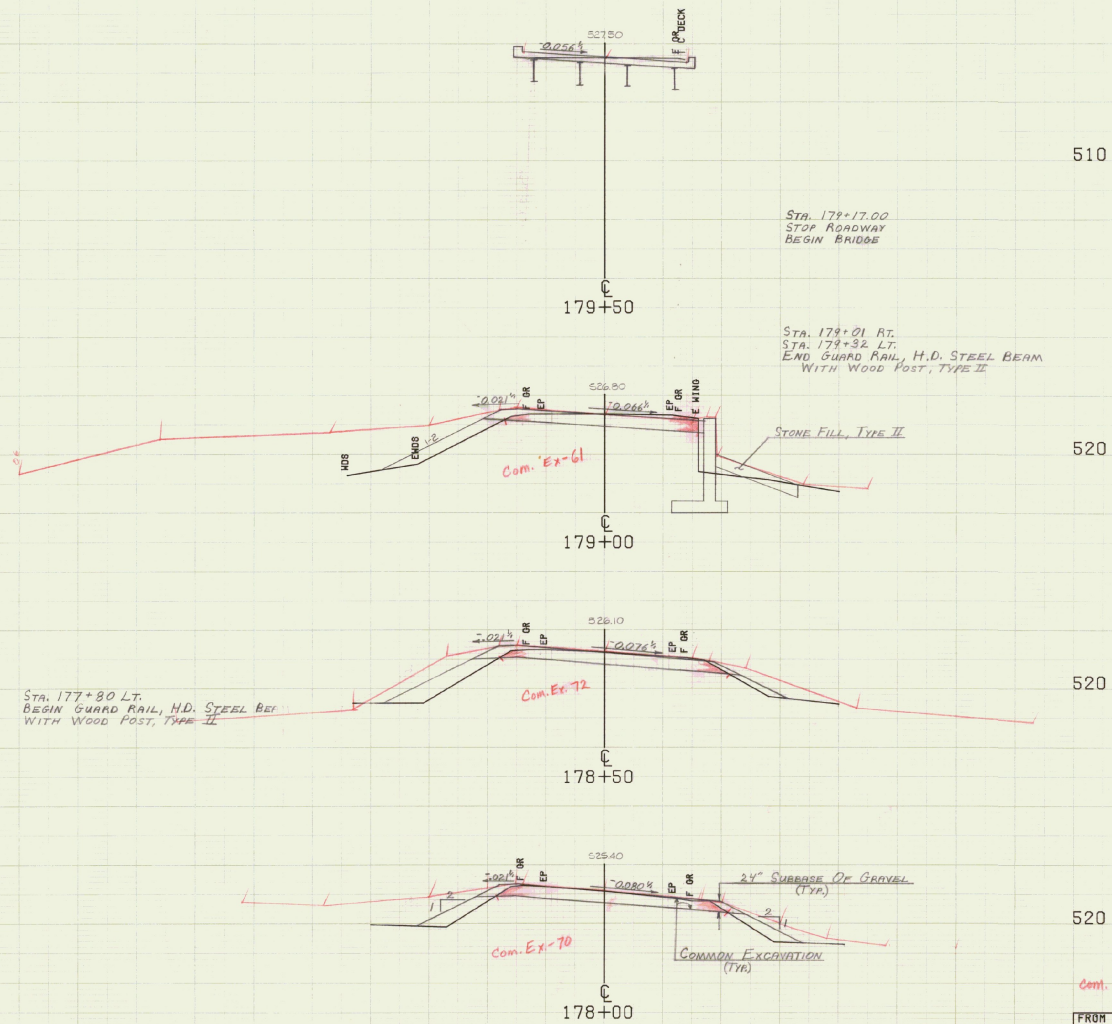
Sta. 177+00 BEGIN PROJECT
CONSTRUCT SATISFACTORY APPROACH



Com. ex. plotted by M.W. Houghnott
12/17/82

FROM STA. 175+50	TO STA. 177+50
PROJECT NAME	BRADFORD VT25
NO.	BAF091-1(5)
SURVEYED BY	TESSIER
SHEET 10 OF 42 SHEETS	PLOTTED 12/07/79

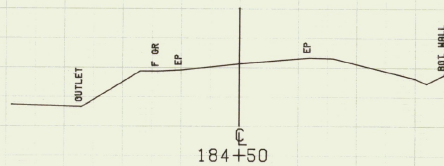
SCALE 1"=10 FEET



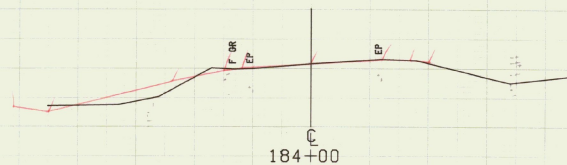
com. ex. planimeted by M.W.H. 12/17/82

FROM STA. 178+00	TO STA. 179+50
PROJECT NAME	BRADFORD VT25
NO.	BAF031-1(S)
SURVEYED BY	TESSIER
SHEET 19 OF 112 SHEETS	PLOTTED 12/07/79

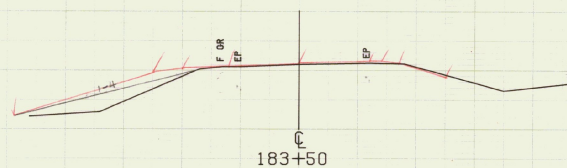
SCALE 1" = 10 FEET



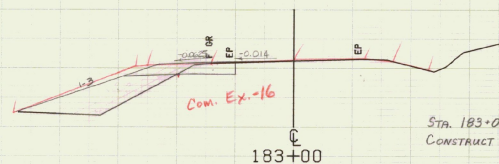
520



520

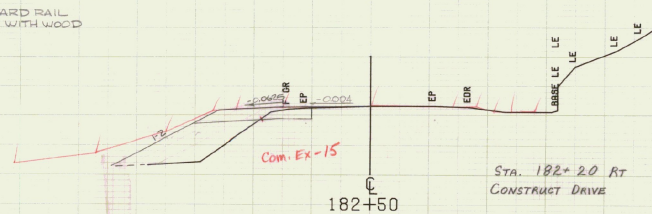


520



530

STA. 182+50 LT. END GUARD RAIL
HEAVY DUTY STEEL BEAM WITH WOOD
POSTS, TYPE II.

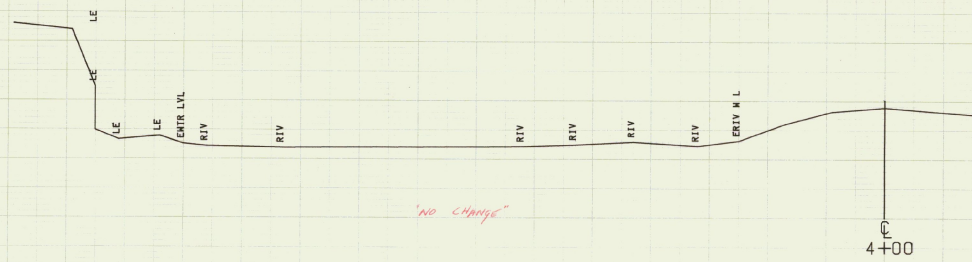


520

Com. Ex. planimetered by M.W.H. 12/17/82

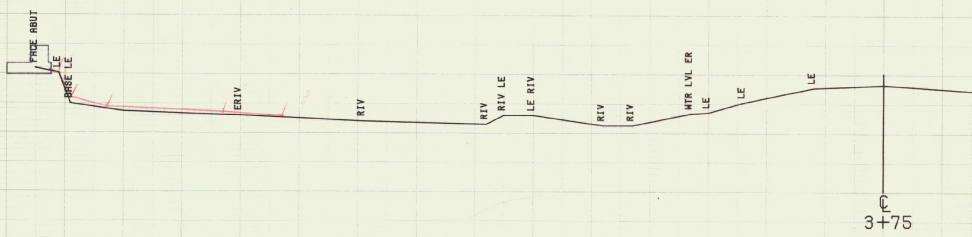
FROM STA. 182+50	TO STA. 184+50
PROJECT NAME	BRADFORD VT25
NO.	BRF031-1(6)
SURVEYED BY	TESSIER
SHEET 21 OF 42 SHEETS	PLOTTED 12/07/79

SCALE 1" = 10 FEET



510

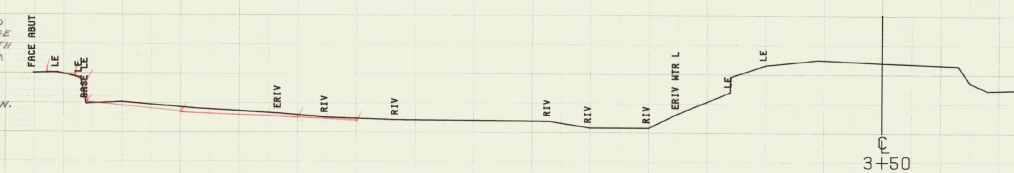
4+00



510

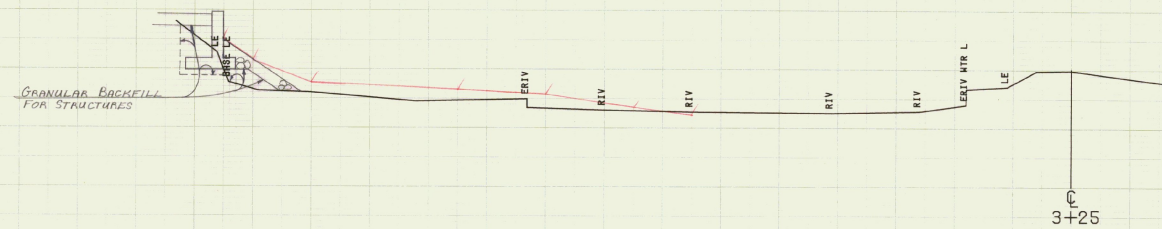
3+75

NOTE:
IN AREAS WHERE A FOOTING
WOULD BE PARTIALLY ON SOIL AND
PARTIALLY ON LEDGE THE LEDGE
SHALL BE EXCAVATED TO A DEPTH
OF ONE FOOT BELOW THE BOTTOM
OF FOOTING ELEVATION. GRANULAR
BACKFILL FOR STRUCTURES SHALL
BE PLACED ON THE LEDGE UP TO
THE BOTTOM OF FOOTING ELEVATION.



510

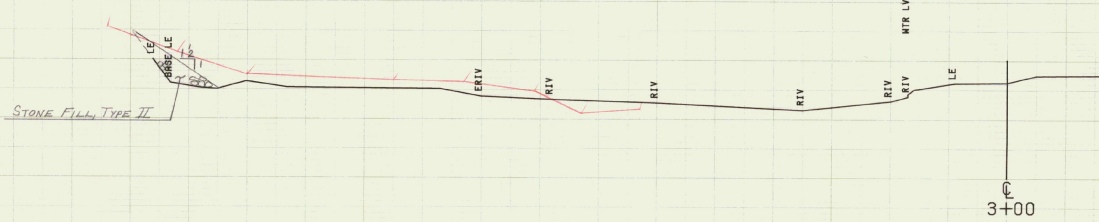
3+50



510

3+25

GRANULAR BACKFILL
FOR STRUCTURES



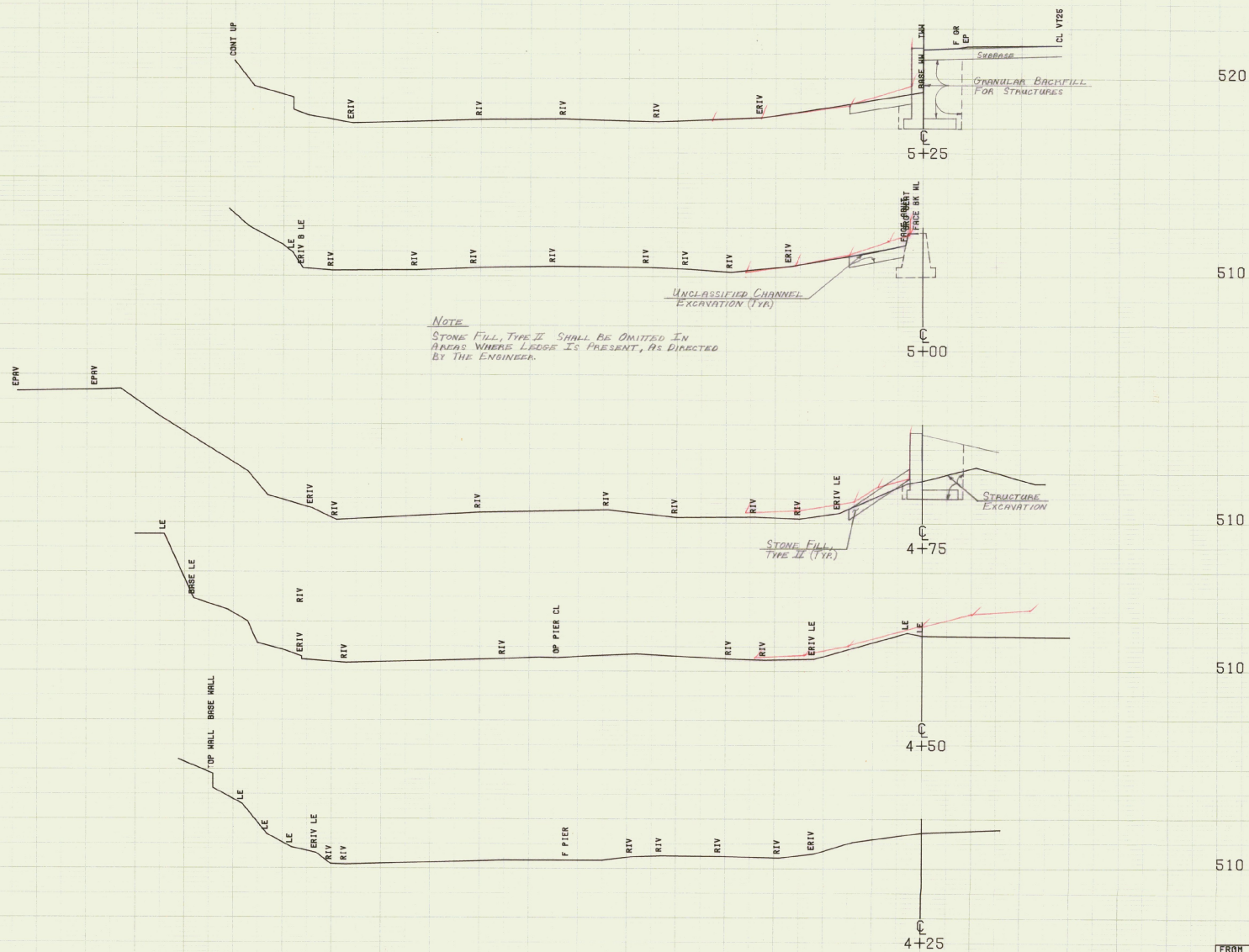
510

3+00

STONE FILL TYPE III

SCALE 1" = 10 FEET

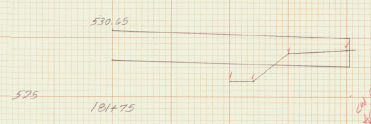
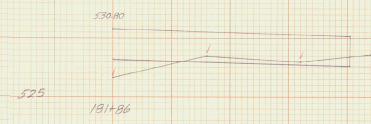
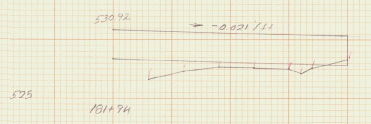
FROM STA. 3+00	TO STA. 4+00
PROJECT NAME	BRADFORD CHAN
NO.	BAF031-1(6)
SURVEYED BY	TESSIER
SHEET 22 OF 42	SHEET 6
	PLOTTED 12/07/79
	11/15/79

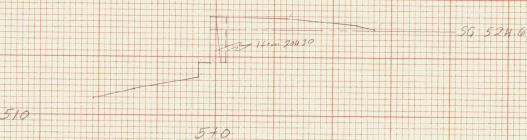
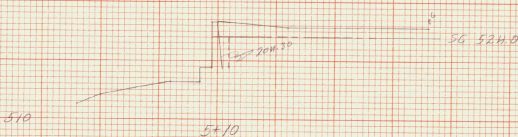
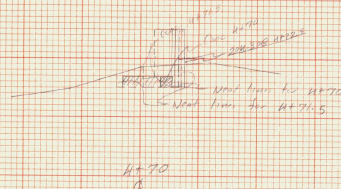
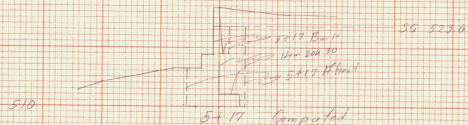
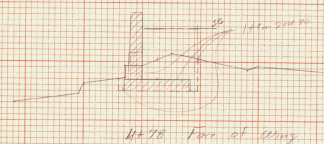
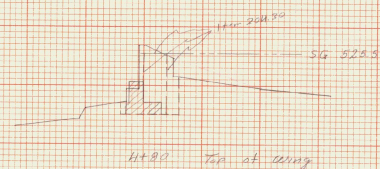
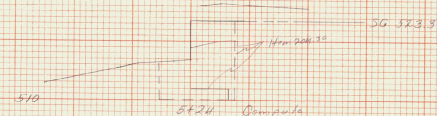
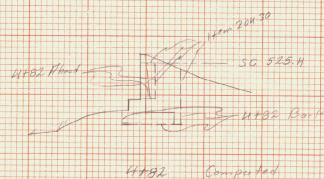
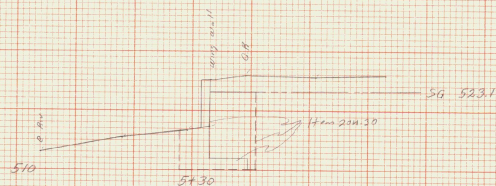
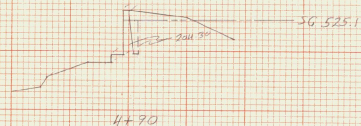


SCALE 1" = 10 FEET

FROM STA. 4+25	TO STA. 5+25
PROJECT NAME	BRADFORD CHAN
NO.	BRF031-116
SURVEYED BY	TESSIER
SHEET 23 OF 42 SHEETS	PLOTTED 12/07/79

Item	203.16	Solid Rock	Excav.
Blm.	150	180	180
181+70	0	3.42	5
181+75	6.84	4.85	11
181+86	2.15	1.25	8
181+94 B.M.	0.42		
		2.95	2.27
		76.56	60.5
			78.1162

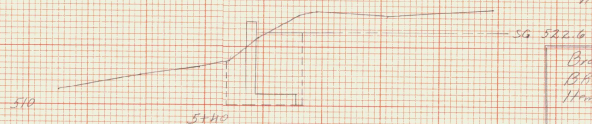
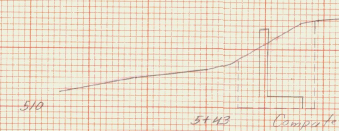
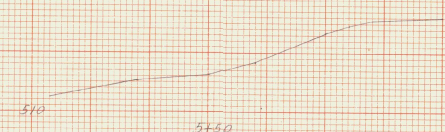




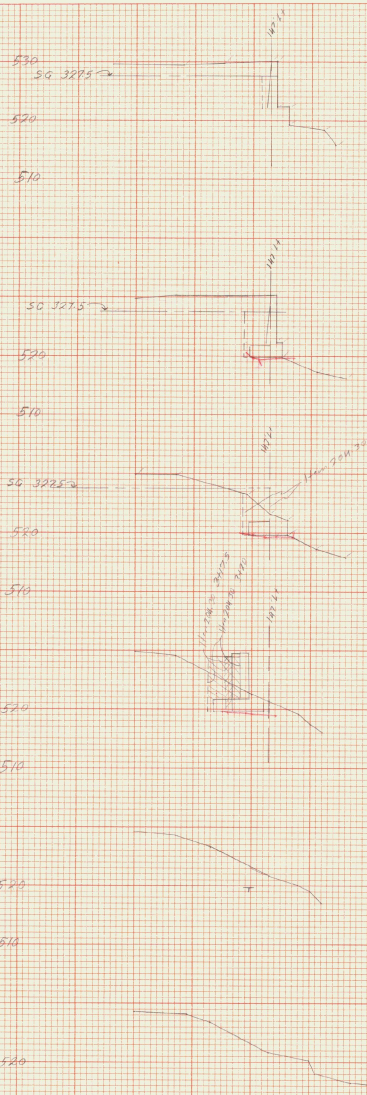
Sta	Flow	Area	Length	Vol
4+68	0	10	2	20
4+70	2.0	28	1.3	42
4+71.5	3.6	52	6.3	338
4+78	6.0	71.5	2	143
4+80	8.5	79	2	158
4+82 B.M.	8.1			
4+82 B.M.	15.6	15.45	8	123.6
4+90	15.3	14.75	10	147.5
5+0	14.6	14.0	10	146.0
5+10	10.0	13.4	7	93.8
5+17 B.M.	12.4			
5+17 B.M.	10.0	18.7	2	37.4
5+19	10.8	17.9	5	89.5
5+24	13.0	13.6	6	81.6
5+30	10.2	14.5	10	145.0
5+40	10.3	11.8	3	35.4
5+43	15.3	16.5	5.5	90.8
5+48.5	0			
Total				518.6 CF

Sta	Flow	Area	Length	Vol
4+22.5 B.M.	10	46.8	5.5	257.4
4+78	83.2	57.65	2	115.3
4+90	35.6	44.3	2	88.6
4+82 B.M.	53.0			
4+82 B.M.	2.0	8.2	8	65.6
4+90	8.25	9	10	90.0
5+0	9.75	9.85	10	98.5
5+10	10.0	9.8	7	68.6
5+17 B.M.	8.75			
5+17 B.M.	53.25	83.6	2	167.2
5+19	52.4	70.3	5	351.5
5+24	80.25	89.4	6	536.4
5+30	20.0	88	10	880.0
5+40	86.0	88	3	264
5+43	80	90	1.5	135
5+48.5 B.M.	70			
Total				3060.9 CF

H.M. 24.24
 H.M. to 5+17.75 Subgrade only
 (5.5 ft high) (15.0 m. d.) (3.0 ft. h.) = 289.75 CF
 Net Vol 4837.5 CF - 177.8 CF = 4659.7 CF
 3 Jan 1982



H.M. #1
 Bradford
 B.R.F. 031-1 (57.5)
 H.M. 204.33
 Structure Sect.
 3 Jan 1982
 Scale 1" = 10'



3+140
120'
6"

3+20
120'
6"

3+30
120'
6"

3+40
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3+50
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3+940
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3+950
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6"

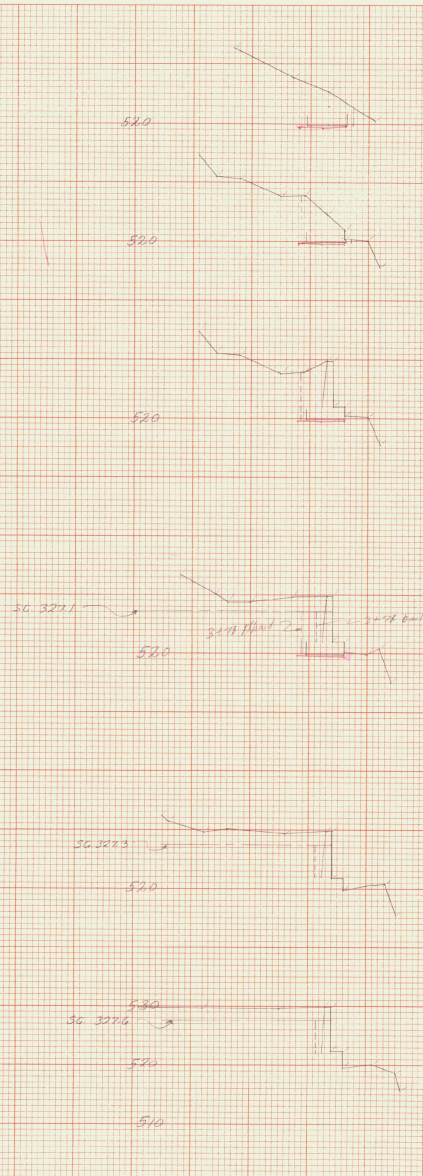
3+960
120'
6"

3+970
120'
6"

3+980
120'
6"

3+990
120'
6"

3+1000
120'
6"



3+835
120'
6"

3+76
120'
6"

3+76
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6"

3+70
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6"

3+60
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6"

3+50
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3+40
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6"

3+30
120'
6"

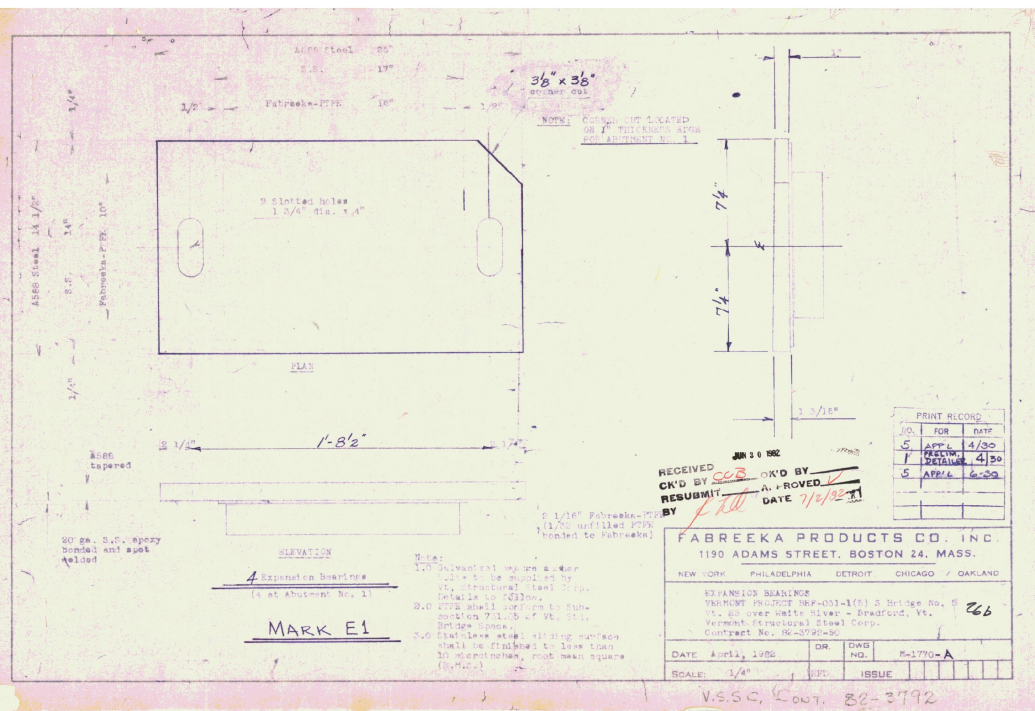
3+20
120'
6"

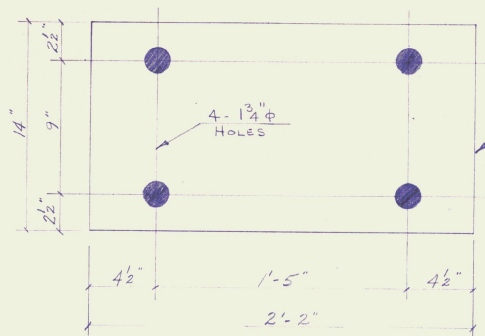
3+10
120'
6"

3+00
120'
6"

Item	201.25	Hub #2	Vol	Sta	Area	Per	Length	Vol
Sta	Area	Hub #2	Imp 1/4	GP				GP
3+14.75	0	21.75	5.25	114.19	3+20	110.8	33.62	10
3+20	113.5	38.35	10	383.50	3+30	24.75	30.05	3
3+30	33.2				3+40	0.25	8.25	7
3+40	13.5	13.5	3	150.2	3+50	7.5	7.88	10
3+50	12.8	12.8	7	128.0	3+60	8.25	8.25	10
3+60	12.8	12.8	3	38.4	3+70	8.25	8.25	3
3+70	12.8	12.8	10	128.0	3+80	27.25	6	178.5
3+80	12.8	12.8	3	38.4	3+90	31.5	27.25	6
3+90	12.8	12.8	3	38.4	3+100	31.5	27.25	6
3+100	12.8	12.8	3	38.4	3+110	31.5	27.25	6
3+110	12.8	12.8	3	38.4	3+120	31.5	27.25	6
3+120	12.8	12.8	3	38.4	3+130	31.5	27.25	6
3+130	12.8	12.8	3	38.4	3+140	31.5	27.25	6
3+140	12.8	12.8	3	38.4	3+150	31.5	27.25	6
3+150	12.8	12.8	3	38.4	3+160	31.5	27.25	6
3+160	12.8	12.8	3	38.4	3+170	31.5	27.25	6
3+170	12.8	12.8	3	38.4	3+180	31.5	27.25	6
3+180	12.8	12.8	3	38.4	3+190	31.5	27.25	6
3+190	12.8	12.8	3	38.4	3+200	31.5	27.25	6
3+200	12.8	12.8	3	38.4	3+210	31.5	27.25	6
3+210	12.8	12.8	3	38.4	3+220	31.5	27.25	6
3+220	12.8	12.8	3	38.4	3+230	31.5	27.25	6
3+230	12.8	12.8	3	38.4	3+240	31.5	27.25	6
3+240	12.8	12.8	3	38.4	3+250	31.5	27.25	6
3+250	12.8	12.8	3	38.4	3+260	31.5	27.25	6
3+260	12.8	12.8	3	38.4	3+270	31.5	27.25	6
3+270	12.8	12.8	3	38.4	3+280	31.5	27.25	6
3+280	12.8	12.8	3	38.4	3+290	31.5	27.25	6
3+290	12.8	12.8	3	38.4	3+300	31.5	27.25	6
3+300	12.8	12.8	3	38.4	3+310	31.5	27.25	6
3+310	12.8	12.8	3	38.4	3+320	31.5	27.25	6
3+320	12.8	12.8	3	38.4	3+330	31.5	27.25	6
3+330	12.8	12.8	3	38.4	3+340	31.5	27.25	6
3+340	12.8	12.8	3	38.4	3+350	31.5	27.25	6
3+350	12.8	12.8	3	38.4	3+360	31.5	27.25	6
3+360	12.8	12.8	3	38.4	3+370	31.5	27.25	6
3+370	12.8	12.8	3	38.4	3+380	31.5	27.25	6
3+380	12.8	12.8	3	38.4	3+390	31.5	27.25	6
3+390	12.8	12.8	3	38.4	3+400	31.5	27.25	6
3+400	12.8	12.8	3	38.4	3+410	31.5	27.25	6
3+410	12.8	12.8	3	38.4	3+420	31.5	27.25	6
3+420	12.8	12.8	3	38.4	3+430	31.5	27.25	6
3+430	12.8	12.8	3	38.4	3+440	31.5	27.25	6
3+440	12.8	12.8	3	38.4	3+450	31.5	27.25	6
3+450	12.8	12.8	3	38.4	3+460	31.5	27.25	6
3+460	12.8	12.8	3	38.4	3+470	31.5	27.25	6
3+470	12.8	12.8	3	38.4	3+480	31.5	27.25	6
3+480	12.8	12.8	3	38.4	3+490	31.5	27.25	6
3+490	12.8	12.8	3	38.4	3+500	31.5	27.25	6
3+500	12.8	12.8	3	38.4	3+510	31.5	27.25	6
3+510	12.8	12.8	3	38.4	3+520	31.5	27.25	6
3+520	12.8	12.8	3	38.4	3+530	31.5	27.25	6
3+530	12.8	12.8	3	38.4	3+540	31.5	27.25	6
3+540	12.8	12.8	3	38.4	3+550	31.5	27.25	6
3+550	12.8	12.8	3	38.4	3+560	31.5	27.25	6
3+560	12.8	12.8	3	38.4	3+570	31.5	27.25	6
3+570	12.8	12.8	3	38.4	3+580	31.5	27.25	6
3+580	12.8	12.8	3	38.4	3+590	31.5	27.25	6
3+590	12.8	12.8	3	38.4	3+600	31.5	27.25	6
3+600	12.8	12.8	3	38.4	3+610	31.5	27.25	6
3+610	12.8	12.8	3	38.4	3+620	31.5	27.25	6
3+620	12.8	12.8	3	38.4	3+630	31.5	27.25	6
3+630	12.8	12.8	3	38.4	3+640	31.5	27.25	6
3+640	12.8	12.8	3	38.4	3+650	31.5	27.25	6
3+650	12.8	12.8	3	38.4	3+660	31.5	27.25	6
3+660	12.8	12.8	3	38.4	3+670	31.5	27.25	6
3+670	12.8	12.8	3	38.4	3+680	31.5	27.25	6
3+680	12.8	12.8	3	38.4	3+690	31.5	27.25	6
3+690	12.8	12.8	3	38.4	3+700	31.5	27.25	6
3+700	12.8	12.8	3	38.4	3+710	31.5	27.25	6
3+710	12.8	12.8	3	38.4	3+720	31.5	27.25	6
3+720	12.8	12.8	3	38.4	3+730	31.5	27.25	6
3+730	12.8	12.8	3	38.4	3+740	31.5	27.25	6
3+740	12.8	12.8	3	38.4	3+750	31.5	27.25	6
3+750	12.8	12.8	3	38.4	3+760	31.5	27.25	6
3+760	12.8	12.8	3	38.4	3+770	31.5	27.25	6
3+770	12.8	12.8	3	38.4	3+780	31.5	27.25	6
3+780	12.8	12.8	3	38.4	3+790	31.5	27.25	6
3+790	12.8	12.8	3	38.4	3+800	31.5	27.25	6
3+800	12.8	12.8	3	38.4	3+810	31.5	27.25	6
3+810	12.8	12.8	3	38.4	3+820	31.5	27.25	6
3+820	12.8	12.8	3	38.4	3+830	31.5	27.25	6
3+830	12.8	12.8	3	38.4	3+840	31.5	27.25	6
3+840	12.8	12.8	3	38.4	3+850	31.5	27.25	6
3+850	12.8	12.8	3	38.4	3+860	31.5	27.25	6
3+860	12.8	12.8	3	38.4	3+870	31.5	27.25	6
3+870	12.8	12.8	3	38.4	3+880	31.5	27.25	6
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3+960	12.8	12.8	3	38.4	3+970	31.5	27.25	6
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3+990	12.8	12.8	3	38.4	3+1000	31.5	27.25	6

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4 - FIXED BEARING PADS
(4 AT PIER)

MARK FP1

NOTE: 1.0 Galvanized swedge anchor bolts to be supplied by Vermont Structural Steel Corp. Details to follow.
2.0 Preformed Fabric Bearing Pads shall conform to sub-section 731.01 of Vt. Std. Bridge Specs.
"731.01 PREFORMED FABRIC BEARING PADS. Preformed fabric bearing pads shall be composed of multiple layers of 8-ounce cotton duck impregnated and bound with high-quality natural rubber or of equivalent and equally suitable materials compressed into resilient pads of uniform thickness. The number of plies shall be such as to produce the specified thickness, after compression and vulcanizing. The finished pads shall withstand compression loads perpendicular to the plane of the laminations of not less than 10,000 pounds per square inch without detrimental reduction in thickness or extrusion."

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CHK'D BY CLB OK'D BY
RESUBMIT A. PROVED
BY FILE DATE 7/6/92

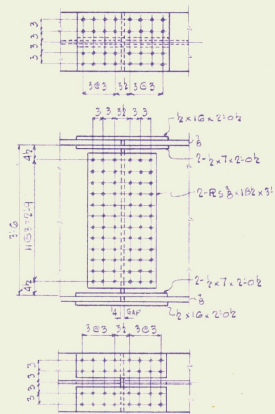
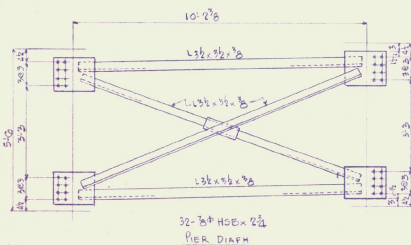
5 APR 14 1992
1 MAY 4 1992
5 APR 14 1992

FABREEKA PRODUCTS CO., INC.
1190 ADAMS STREET, BOSTON 24, MASS.
NEW YORK PHILADELPHIA DETROIT CHICAGO OAKLAND
EXPANDED BEASINGS
VERMONT PROJECT BRP-031-1(5) S Bridge No. 5
Vt. 23 over White River - Bradford, Vt. /
Vermont Structural Steel Corp.
Contract No. 82-3792-90

DATE April, 1992 DR. DWG. No. 1770-C
SCALE: 1/4" = 1'-0" SHEET ISSUE

V.S.C. 82-3792

26d



FIELD PRICE DETAIL

RECEIVED
CK'D BY CSB OK'D BY _____
RESUBMIT _____ APPROVED ATW NOTE
BY CTD DATE 7/2/92

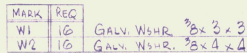
REVISION RECORD			
DATE	REV #	BY	REVISION
5-18-82	1	LLB	NORM DIAPH. INSTALLATION NOTE & QTY HARD WASH. 2 1/4 BOLTS TO 2 1/2

I.

VERMONT STRUCTURAL STEEL CORPORATION			
BURLINGTON, VERMONT			
PROJ. NO. BRP-031-1(S) 5			
DATE		PROJECT BRIDGE NO. 5 RTE-VT 25	
DESIGNED BY	S	LOCATION	ORANGE CO. BRADFORD, VT.
CHECK BY	T	CUSTOMER	
5-24-82			
HEADS		JOB NO. 18	
BOILTS		SHEET NO. E2	
PAINT		SHEET NO. 15	
FOR NO. 80-5790		APP. 1	

PRINT RECORD		
NO.	FOR	DATE
5	APPRO	6-3
1	DESIGN	6-3
3	SHEET	6-16
5	FOR APP	6-21
15	APP. 1	

LIST OF DRAWINGS		LIST OF FIELD BOLTS				
SHEET	DESCRIPTION	REQ	DIAM	GRIP	LETH	
E1	ANCH BOLT PLAN	530	"8	18	3 1/2	
E2	ERECTION PLAN	600	"8	14	2 1/2	WEB
		100	"8	18	2 1/2	DIAPH
	BEARING DETAILS	350	"8	8	2 1/2	DIAPH
2-10	GIRDER DETAILS					
11	DIAPH DETAILS					
12	SCAFFER DETAILS	1940	"8	RD. HARD.	WASHERS	

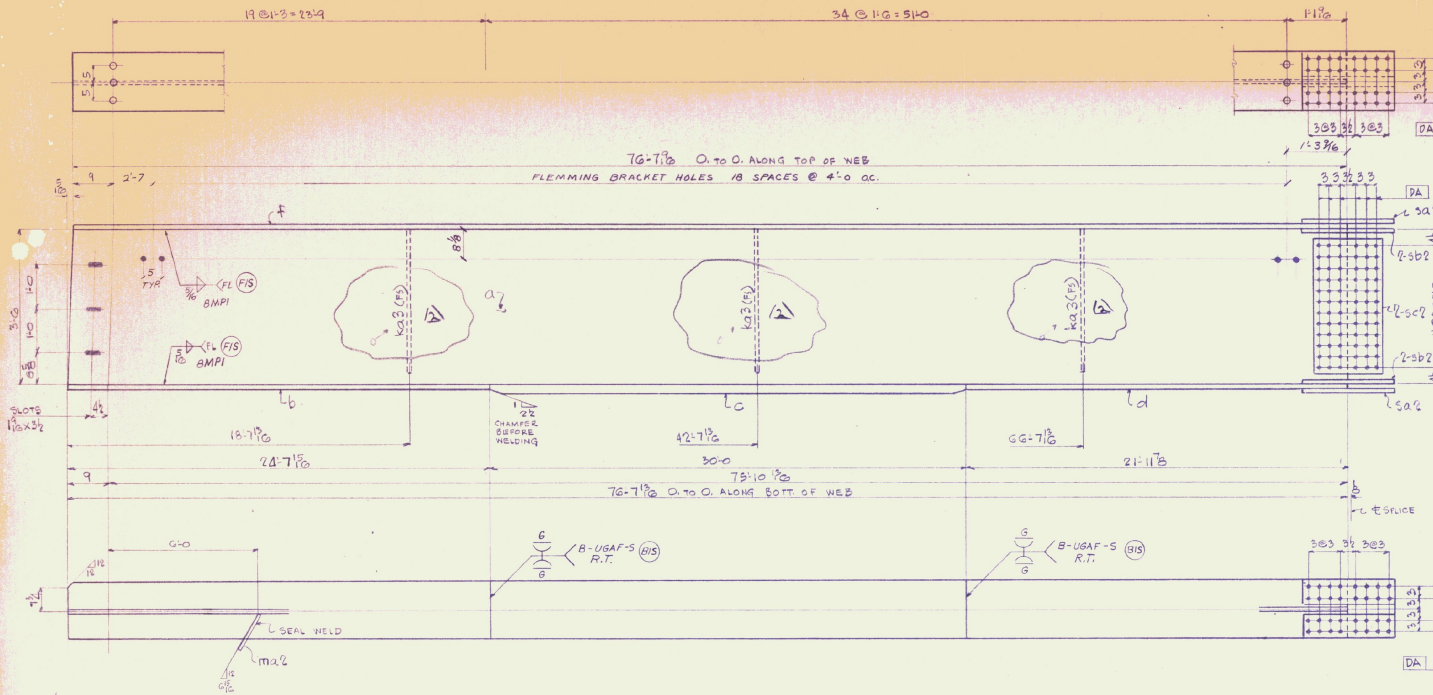


*A SURFACES NOTED TO BE COATED WITH APPROVED LUBRICANT.

JOB NO. 82-3792 SHEET NO. 1 1/2

REVISION RECORD			
DATE	REV. #	BY	REVISION
G-29	1	HO	ISSUING PROCEDURES KEY.

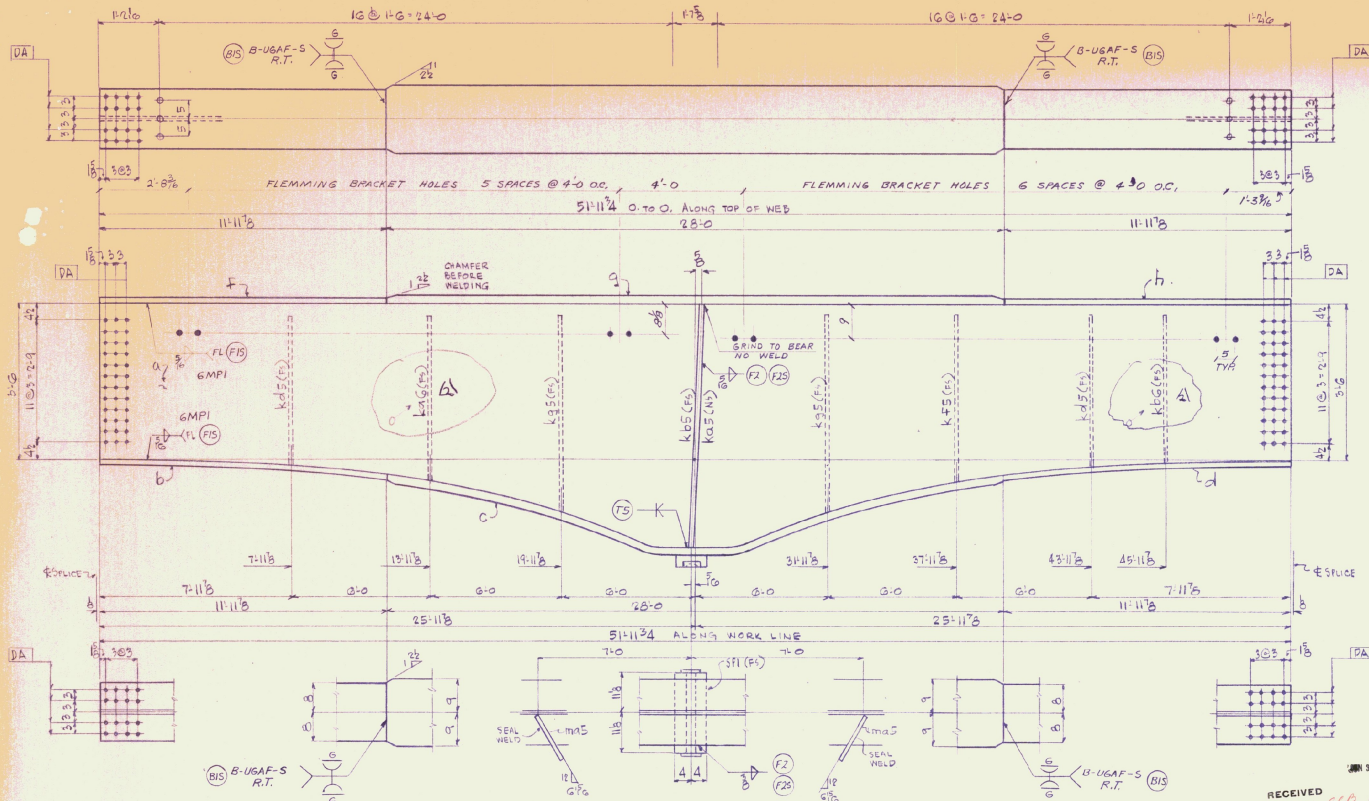
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VERMONT									
Proj. No. BR.F-031-(15)		DATE		PROJECT BRIDGE No. 5 RTE VT 25		PRINT RECORD			
EMPRY	S			LOCATION	ORANGE GO. BRADFORD, VT.	NO.	FOR	DATE	
EXEM	T	510-62		CUSTOMER		5	AS NOTED	6-13	
REMARKS AS NOTED					29				
SCALE				ARCHITECT					
PLAN				JOB NO. 82-3792	SHEET NO. 1%				
						5	AS NOTED	6-28	



JUN 30 1982
 RECEIVED
 CK'D BY CLB OK'D BY _____
 RESUBMIT _____ APPROVED _____
 BY FLN DATE 7/1/82

MATERIAL - ASBB
 FOR FABRICATION NOTES SEE #2
 FOR CAMBER DIAGRAM SEE #2
 FOR ASSEMBLY DIAGRAM SEE #10

NO. OF PIECES		MARK	DESCRIPTION	LENGTH FT. IN.	WEIGHT
ONE - G10 GIRDER					
1	a	1/2 x 44 7/8	76	76	5749
1	b	7/8 x 16	24	7 1/8	1174
1	c	1/8 x 16	30	0	1834
1	d	7/8 x 16	21	11 3/8	1047
1	f	7/8 x 16	76	7 1/8	3648
2	ga2	1/2 x 16	2	0 1/2	111
4	gb2	1/2 x 7	2	0 1/2	97
2	gc2	3/8 x 15 1/2	3	2	149
3	kd2	7/8 x 7 (WS 5 x 7)	3	3	131
1	ma2	4 x 2 1/2	0	11	2
					12994
CONTRACT 82-3792-51					
162		WELD STUDS 7/8"	0	7	214
JOB NO. 82-3792 SHEET NO. 4/6					
NO. OF PIECES		MARK	DESCRIPTION	LENGTH FT. IN.	WEIGHT
BILL OF MATERIAL					
REVISION RECORD					
DATE	REV. #	BY	REVISION		
6-16-82	1	CLB	ADD FLEM. BRACKET HOLES		
6-29	2	FLN	DRG. ADV.		
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VERMONT					
PROJ. NO. BR-031-1(5)5	DATE	PROJECT	BRIDGE No. 5 Rte. Vt. 25		
DRAWN BY: S	5-25-82	LOCATION	ORANGE CO - BRADFORD, VT.		
CHECKED BY: T.		CUSTOMER			
NO. 1/4" OS. PA		ARCHITECT			
NOTE: NONE		JOB NO. 82-3792	32		
		SHEET NO. 4/6			



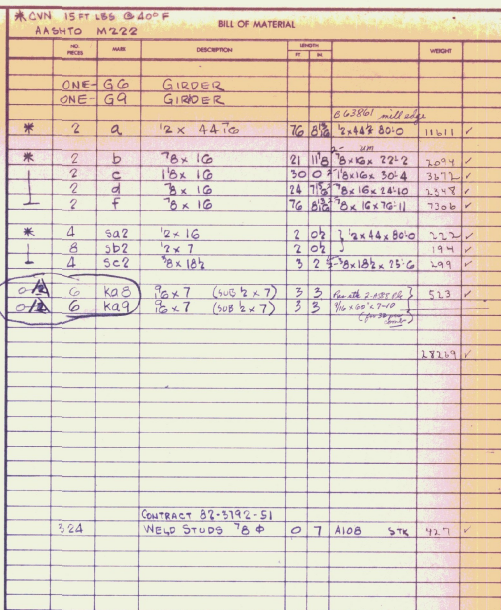
SHOP NOTE: CHANGE IN
VERTICAL DIM. FOR FLEMMING
BRACKET HOLES

RECEIVED
CHK'D BY
RESUBMIT
BY

OK'D BY
APPROVED
DATE 4/10/82

MATERIAL - A588
FOR FABRICATION NOTES SEE #2
FOR CAMBER DIAGRAM SEE #5
FOR ASSEMBLY DIAGRAM SEE #10

NO.		MARK	DESCRIPTION	LENGTH	WEIGHT
PIECES				FT. IN.	
ONE G11 GIRDER					
1	a		2x 67 3/8	51	4491#
1	b		7/8x10	11	571
1	c		1 1/4x10	28	3110
1	d		7/8x10	11	571
1	e		7/8x10	11	571
1	f		7/8x10	11	571
1	g		1 1/4x10	28	3110
1	h		7/8x10	11	571
1	ka5		7/8x10	5	278
1	kb5		7/8x10	5	278
1	kc5		7/8x10	5	278
1	kd5		7/8x10	5	278
1	ke5		7/8x10	5	278
1	kf5		7/8x10	5	278
1	kg5		7/8x10	5	278
1	kh5		7/8x10	5	278
1	ki5		7/8x10	5	278
1	kl5		7/8x10	5	278
1	km5		7/8x10	5	278
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1	vv5		7/8x10	5	278
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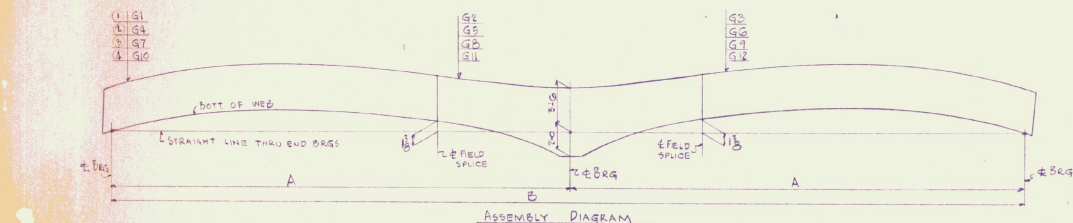


MATERIAL - A588
FOR FABRICATION NOTES SEE #2
FOR CAMBER DIAGRAM SEE #8
FOR ASSEMBLY DIAGRAM SEE #10

[illegible]

REVISION RECORD			
DATE	REV. #	BY	REVISION
6-16-82	1	LLB	PER APPL DWG
6-29	2	HD	DRAW CORRECTION

[illegible]



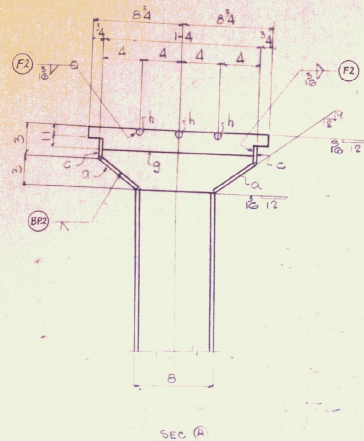
LINE	GIRDERS	A	B
①	G1, 2, 3	101-108	203-213
②	G4, 5, 6	101-108	202-213
③	G7, 8, 9	101-108	203-213
④	G10, 11, 12	101-111	203-213

NO.		AISC		DESCRIPTION	LENGTH		WEIGHT
PIECE					FT.	IN.	
ONE G12 GIRDER							
*	1	a	1/2 x 4 1/2	76	8 3/8	2 x 4 1/2 x 80'-0"	580.5 ✓
*	1	b	7/8 x 10	21	11 1/8	7/8 x 10 x 22'-2"	10.47 ✓
↓	1	c	1 1/2 x 10	30	0	1 1/2 x 10 x 30'-4"	133.6 ✓
↓	1	d	7/8 x 10	24	7 1/8	7/8 x 10 x 24'-10"	117.4 ✓
↓	1	f	7/8 x 10	76	8 3/8	7/8 x 10 x 76'-11"	325.3 ✓
*	2	sa2	1/2 x 10	2	0 1/2	1/2 x 4 1/2 x 80'-0"	11.1 ✓
↓	4	sb2	1/2 x 7	2	0 1/2	1/2 x 7 x 60'-0"	9.7 ✓
↓	2	sc2	7/8 x 10 1/2	3	2	7/8 x 10 1/2 x 25'-6"	14.9 ✓
②	3	ka9	7/8 x 7 (406 h x 7)	3	3	7/8 x 7 x 60'-0"	13.1 ✓
CONTRACT 82-3792-51							
WELD STUDS 7/8"				0	7	A108 5TK	2.14 ✓

[illegible]

REVISION RECORD			
DATE	REV. #	BY	REVISION
6-16-02	1	LLB	PER APP'L & FLEM BRKT HOLES
6-29	2	LD	0.75 SQ. Y.

VERMONT STRUCTURAL STEEL CORPORATION					
BURLINGTON, VERMONT					
PROJ. NO. BRF-031-1(S) S					
CUSTOMER S. T.	DATE 5-15-82	PROJECT BRIDGE No. 5	RTE-Vt 75	PERMIT RECORD	
LOCATION ORANGE CO.		BRADFORD, VT.		NO.	FOR DATE
CUSTOMER				5	APPR 6-1-
				1	APP 6-1-
				3	APP 6-1-
				5	APP 6-1-
HOLDER HGS & DA		ARCHITECT	38	SHEET NO.	10%
PAINT	NONE	JOB NO.	82-3792		



MARK	REQ
S1	1
S2	1
A1	2

RECEIVED
CK'D BY ms OK'D BY _____
RESUBMIT _____ APPROVED ✓
BY LTD DATE 7/2/02

GALVANIZE AS PER ASTM A123
AFTER FABRICATION

[illegible]



SEP 28 1982

RECEIVED
CK'D BY CCB OK'D BY _____
RESUBMIT _____ APPROVED AS NOTED
BY 10/4/12 DATE 10/4/12

Welding
Procedures

TOTAL PAY LENGTH ITEM 617.30 = 421'-6 $\frac{7}{16}$ "

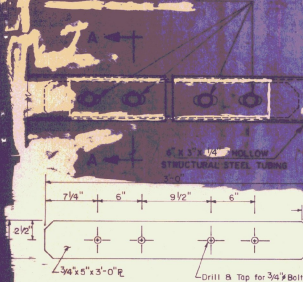
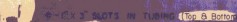
DATE PLOT	DRAWN BY	CHECKED BY	SHEET NO.
	M J Z	7/17/82	1 OF 3
BRIDGE RAILING LAYOUT			
VT. RT 25 over WAITS RIVER			
Town of Bradford Orange County			
Proj. NO BRP 031-1 (S)			
CUSTOMER			
LAFAYETTE - SHELDON INC			
O.W. HUBBELL & SONS, INC.			
NEW HARTFORD,	NEW YORK	DS-3233	



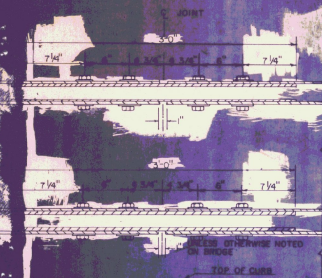
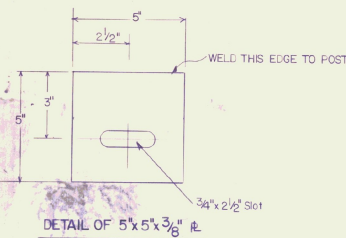
NOTE: RAIL POSTS ARE TO BE SET NORMAL TO GRADE UNLESS OTHERWISE DESIGNATED ON BRIDGE PLANS.

- 1 RAILING IS DESIGNED IN ACCORDANCE WITH D61. ASSURED STRENGTHS AND ITS LATEST REVISIONS.
- 2 ALL PLATES, ANGLES & SHAPES SHALL BE ASTM A36 STEEL. ALL BOLTS SHALL BE ASTM A307 STEEL UNLESS OTHERWISE SPECIFIED.
ALL HOLLOW STRUCTURAL STEEL TUBING SHALL BE HOT-FORMED
~~MILWAUKEE-ASTM A-500~~ HOT-FORMED WELDABLE KNOCK-OUT
OR FORMED STEEL STRUCTURAL TUBING CONFORMING TO ASTM
A 500 COL. FORMED IN ROUNDS AND SHAPES, GRADE C89.0.
- 3 PRIOR TO FABRICATION OF THE RAILING, SIX COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE DEPARTMENT OF HIGHWAYS FOR APPROVAL.
- 4 ALL BOX BEAM BRIDGE RAILING COMPONENTS, INCLUDING TUBING, PLATES, ANGLES, ANCHOR BOLTS, AND ALL HARDWARE, SHALL BE GALVANIZED ACCORDING TO ASTM A 153 OR ASTM A333 BY FABRICATION.
- 5 THE RAILING SYSTEM SHALL BE CONTINUOUS, WITH EACH TUBING SECTION ATTACHED TO A MINIMUM OF TWO POSTS. ALL JOINTS SHALL BE DESIGNATED, WITH TOP AND BOTTOM RAILING SPLICES IDENTIFIED IN THE SAME PANELS.
- 6 POSTS ARE TO BE ALIGNED AS NECESSARY WITH HEAVY STEEL HEX NUTS TO BRING TO TRUE LINE AND GRADE. AFTER POSTS ARE ALIGNED, FINAL POSITION ALL JOINTS BETWEEN BAYS PLATE COMPLETE CONCOURSE CONNECTIONS SHALL BE MADE WITH PLATING WITH NON-SHARPE GROUT CONFORMING WITH SUBSTITUTION TYPE IV, MORTAR-TYPE IV.
- 7 ANCHOR BOLTS ARE TO BE PRESET IN CONCRETE, (BY OTHERS).
- 8 RAILING IS TO BE PAID FOR PER LINEAR FOOT, AND THE COST SHALL INCLUDE ALL TUBING, PLATES, ANGLES, BOLTS, TEMPLATE, SHOP PLANT, COMPLETE, AND OTHER MATERIALS AND LABOR NECESSARY TO ERECT RAILING.
- 9 COMPLETE SPLICE INCLUDES ALL BOLTS AND HARDWARE TO BE FURNISHED WITH THE BRIDGE RAILING, EXCEPT AS NOTED.
- 10 THE BOX BEAM SHALL BE SHOP BENT TO FIT THE HORIZONTAL CURVE WHEN THE RADIUS IS LESS THAN 800'.
- 11 RAILING JOINT SPLICES SHALL BE LOCATED AT ALL SUPERSTRUCTURE JOINTS THE BRIDGE RAILING JOINT SHALL BE A MINIMUM OF 10' OR CAPABLE OF PROVIDING THE MOVEMENT SPECIFIED. SPLICE PLATES TO BE LENGTHENED AS REQUIRED.

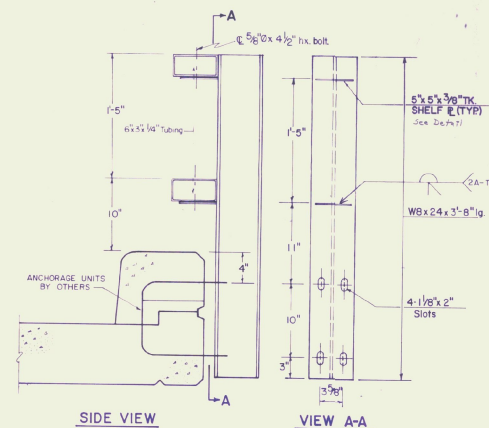
A. WELDS SHALL BE 2A SHALL BE PERFORMED IN ACCORDANCE WITH THE B7Z AND B7C WELDING CODE, AND U.S. AIR FORCE APPROVED WELDING PROCEDURES FOR BOX BEAM BRIDGES.



SPLICE PLATE (ON BRIDGE)

[illegible]

* PAID FOR UNDER GUARD RAIL ITEM



TYPICAL SECTION OF BOX BEAM BRIDGE RAIL

SEP 28 1988

RECEIVED
CK'D BY CCB OK'D BY _____
RESUBMIT _____ APPROVED YES NOTE
BY W. J. [unclear] DATE 10/9/82

DRAWN BY: M J Z	DATE: 9/17/82	CHECKED BY: <i>THH</i>	SHEET NO.: 2 OF 3
<u>BRIDGE RAILING DETAILS</u>			
TOWN OF BRADFORD COUNTY OF ORANGE BRIDGE NO.5 over WAITS RIVER			
Proj. No. BRF-031-1(5)			
GENERAL CONTRACTOR LAFAYETTE SHELDON INC.			
O.W. HUBBELL & SONS INC.			
NEW HARTFORD.		NEW YORK.	
		DS-3233	

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
1	KENYON, CHARLES A. & FANNIE E.	3	178+00 LT. 178+25 LT.	180+38 LT. 178+70 LT.			CONST. EASE. (T) SLOPE (T)	(0.14 A±) (50 SF±)	AGREE.				
2	CORTI, LENA	3	181+00 LT. 181+50 LT. 181+83 LT.	183+00 LT. 181+83 LT. 181+77 LT.			CONST. EASE. (T) CHANNEL (P) SLOPE (T)	(0.10 A±) (40 SF±) (15 SF±)	WDOE	12-3-81	BRADFORD	54	25,30
3	TOWN OF BRADFORD	3	177+15 LT.	178+25 LT.			CONST. APPROACH (T)		AGREE.				T.H. 23

TABLE OF REVISIONS

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

MADE BY: B. A. MELVIN DATE 10-6-81

CHECKED BY: J.D. PATERSON DATE 10-6-81

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 L ___/___	TAKING WITHOUT ACCESS	ALONG PROPERTY LINES
_____ -- _____	TAKING WITH ACCESS	
(P)	PERMANENT EASEMENT	
(T)	TEMPORARY EASEMENT	

LEGEND

LEGEND

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

APPROVED Thomas P. Mayo DATE 10-7-81
CHIEF OF PLANS & TITLES

PROJECT BRADFORD

NO. BRF 031-1 (5)S

SHEET 2 OF 3

