

SHEET NO.	TITLE PAGE
1	ALIGNMENT SHEET
2-4	TYPICAL CROSS SECTIONS (INTERSTATE)
5	TYPICAL CROSS SECTIONS (VT. 127 & APPROACH)
6	BLANK
7	BLANK
8-9	QUANTITY SHEET (ITEMS)
10	ITEM DETAIL AND DRAINAGE SHEET
11	BLANK
12	BLANK
13	BLANK
14	BLANK
15	BLANK
16	BLANK
17-22	EARTHWORK AND GRADE SHEETS
23	BLANK
24	BLANK
25	BLANK
26-31	BLANK FINAL EARTHWORK SHEETS
32-35	PLAN AND PROFILE SHEETS
36	Q.O.W. SHEET
47-49	BLANK
50	A-61 (DRILLING AND BLASTING OF SOLID ROCK)
51	B-1 (BANKING TABLES)
52	B-5 (TYPICAL SLOPE GRADING)
53	B-6 (MUCK EXCAVATION)
54	B-10 (ENTRANCE AND EXIT TERMINALS)
55	BLANK
56	B-7 (GUARD RAIL IN MEDIAN)
57	BLANK
58	D-2 (C.R.M. AND A.C.C.G.M. UNDERDRAIN)
59	D-3 (GUTTERS - JUTE MATTING)
60	D-4 (FLUSHING BASINS - METAL END SECTIONS)
61	D-8 (R.C. DROP INLETS)
62	D-10 (DROP INLET TOPS)
63	D-11 (GRATES AND COVERS)
64	D-13 (CONCRETE CATCH BASINS)
65	D-14 (METAL FLUME AND RISERS)
66	D-19 (P.C., R.C. CURB D.I.)
67	E-1 (BARRICADES, SIGNS AND LIGHTS)
68	F-1 (PROPERTY LINE FENCE)
69	G-24 (TWO CABLE GUARD RAIL)
70	G-25 (DEAD END ANCHORAGE FOR TWO CABLE GUARD RAIL)
71	G-4 (MARKER POSTS)
72	J-1 (PROJECT MARKERS)
73	J-4 (FIELD OFFICE)

SHEET NO.	TITLE PAGE
74	E-9 (CONSTRUCTION IDENTIFICATION SIGNS)
75	BLANK
76	BLANK
77-79	BLANK
80-81	DETAILS OF 34" X 24" C.G.M.P.P. AT N.B. STA. 2361+00
82-83	DETAILS OF 64" X 182" C.G.M.P.P. AT S.B. STA. 2361+76.54
84	DETAILS OF 108" X 330" C.G.M.P.P. AT N.B. STA. 2443+42.0
85-97	BRIDGE SHEETS, VT. 127, UNDERPASS AT STA. 2450+11.19
98	SUB-30-62
99-105	C.B.-D1, D2, D4, D6, D7, D8, D9-62
106-107	S.B.-90-62
108-109	S.B.-18-62
110-111	BLANK
112	BLANK
113	BLANK
114	BLANK
115	BLANK
116-158	BLANK
159-258	CROSS SECTIONS, INTERSTATE
259-263	CROSS SECTIONS, VT. RTE. 127
264-265	CROSS SECTIONS, VT. RTE. 127 APPROACH
160 A, 161 A, 162 A, 163 A, 164 A, 165 A, 166 A, 167 A, 168 A, 169 A, 170 A, 171 A, 172 A, 173 A, 174 A, 175 A, 176 A, 177 A, 178 A, 179 A, 180 A, 181 A, 182 A, 183 A, 184 A, 185 A, 186 A, 187 A, 188 A, 189 A, 190 A, 191 A, 192 A, 193 A, 194 A, 195 A, 196 A, 197 A, 198 A, 199 A	EXTRA CROSS SECTIONS
2	STEEL BLUE PRINT SHEETS

STATE OF VERMONT DEPARTMENT OF HIGHWAYS PROPOSED IMPROVEMENT

TOWN OF COLCHESTER COUNTY OF CHITTENDEN PROJECT 1 89-3 (19)

CONTRACT 2
STAGE 1

LENGTH OF ROADWAY 1.852 MILES OR 9,778.71 FEET
LENGTH OF BRIDGE 0.030 MILES OR 157.17 FEET
LENGTH OF CONTRACT 1.882 MILES OR 9935.88 FEET

DESIGN DESIGNATION
ADT 1950 1950
ADT 1975 1950
ADT 1975 1,200
D 25%
T 6%
V 60 M.P.H.

PROJECT NAME & NUMBER STAGE 1
COLCHESTER 1 89-3 (19) C-2 GRADING & DRAINAGE
RECORD PLANS
MATERIALS

SUBBASE OF GRAVEL & GRAVEL BACKFILL - L. GREGOIRE PIT - COLCHESTER, VT.
SUBBASE OF SAND - BRIGANTI PIT - COLCHESTER, VT.
SUBBASE OF CRUSHED ROCK & CRUSHED STONE SHOULDERS - THE LANE QUARRY - SO. BURLINGTON, VT.
CRUSHED GRAVEL PLANT MIXED BASE COURSE & BITUMINOUS CONCRETE - L.M. PIKE & SON (PLANT B) - WILLISTON, VT.
SAND, STONE & PEA STONE - DEMERS QUARRY - WINDOOSKI, VT.
ASPHALT - HUMBLE OIL & REFINING CO. - EVERETT, MASS.
REFINED TAR - WHITCO CHEMICAL CO., INC. - CAMBRIDGE, MASS.
CONCRETE CLASS B - W. C. KIRBY - BURLINGTON, VT.
REINFORCING STEEL - SCHERER STEEL CO. - E. HARTFORD, CONN.
R.C. PIPE & P.C. P.D.I. - MARTIN MARIETTA CO. - WINDSOR, VT.
A.C.C.G.M. PIPE - NORTHEASTERN CULVERT CORP. - WESTMINSTER, VT.
C.I. COVERS FOR FL. BASINS - ETHERIDGE FOUNDRY INC. - BROCKTON, MASS.
C.I. GRATES - E. L. LEBARON FOUNDRY CO. - BROCKTON, MASS.
CABLE GUARD RAIL & PROPERTY LINE FENCE - S.T. GRISWOLD & CO., INC. - WILLISTON, VT.

CONTRACTOR - THE LANE CONST. CORP.
MERIDEN, CONN.
RESIDENT ENGINEER - NELSON F. DUBA JR.
ASSISTANT R.E. - R.G. COLTRAN.
INSPECTORS - F. WIMBLE, W. PRESTON & H. DAVIS.
RECORD PLANS - NELSON F. DUBA JR.

CONTRACT:
DATED - APRIL 15, 1963.
STARTED - MAY 27, 1963.
COMPLETED - JUNE 26, 1964.
ACCEPTED - JUNE 26, 1964.

COLCHESTER 1 89-3 (19) C-2
CONTRACTOR - THE LANE CONST. CORP.
RECORD PLANS - NELSON F. DUBA JR.
CONST. COMPLETED - JUNE 26, 1964.

147

APPROVED: E.H. Stickney, July 14, 1961
APPROVED: L.M. Byron, July 14, 1961
APPROVED: A. Keaton, July 13, 1961
APPROVED: J.M. Lane, July 13, 1961
APPROVED: A.D. Seibach, July 14, 1961

CONTRACT 2 - STAGE 1 CONSTRUCTION
265

149

149

INDEX OF SHEETS

1	TITLE PAGE
2	ALIGNMENT SHEET
3-4	TYPICAL CROSS SECTIONS (INTERSTATE)
5	TYPICAL CROSS SECTIONS (VT. 127 & APPROACH)
6	BLANK
7	BLANK
8-9	QUANTITY SHEET (ITEMS)
10	ITEM DETAIL AND DRAINAGE SHEET
11	BLANK
12	BLANK
13	BLANK
14	BLANK
15	BLANK
17-22	EARTHWORK AND GRADE SHEETS
23	BLANK
24	BLANK
25	BLANK
26-31	BLANK
32-45	PLAN AND PROFILE SHEETS
46	E.O.M. SHEET
47-49	BLANK
50	A-61 (DRILLING AND BLASTING OF SOLID ROCK)
51	B-1 (BANKING TABLES)
52	B-2 (TYPICAL SLOPE GRADINGS)
53	B-6 (MUCK EXCAVATION)
54	B-15 (ENTRANCE AND EXIT TERMINALS)
55	BLANK
56	B-17 (GUARD RAIL IN MEDIAN)
57	BLANK
58	D-2 (C.R.M. AND A.C.C.M. UNDERDRAIN)
59	D-3 (GUTTERS-JUTE MATTING)
60	D-4 (FLASHING BASINS-METAL END SECTIONS)
61	D-6 (R.C. DROP INLETS)
62	D-10 (DROP INLET TOPS)
63	D-11 (GRATES AND COVERS)
64	D-13 (CONCRETE CATCH BASINS)
65	D-14 (METAL FLUME AND RISERS)
66	D-16 (R.C. CURB D.I.)
67	E-1 (BARRICADES, SIGNS AND LIGHTS)
68	F-1 (PROPERTY LINE FENCE)
69	G-2 (TWO CABLE GUARD RAIL)
70	G-25 (HEAD END ANCHORAGE FOR TWO CABLE GUARD RAIL)
71	H-4 (MARKER POSTS)
72	J-1 (PROJECT MARKERS)
73	J-4 (FIELD OFFICE)

SHEET NO. 74	E-9 (CONSTRUCTION IDENTIFICATION SIGNS)
75	BLANK
76	BLANK
77-79	BLANK
80-81	DETAILS OF 64" X 24" C.G.M.P.P. AT N.B. STA. 2361+00
82-83	DETAILS OF 64" X 182" C.G.M.P.P. AT S.B. STA. 2361+76.54
84	DETAILS OF 108" X 350" C.G.M.P.P. AT N.B. STA. 2463+42.0
85-97	BRIDGE SHEETS, VT. 127, UNDERPASS AT STA. 2460+11.19
98	S.C.B.-30-62
99-105	S.C.B.-D1, D2, D4, D6, D7, D8, D9-62
106-107	S.B.-56-62
108-109	S.B.-58-62
110-111	BLANK
112	BLANK
113	BLANK
114	BLANK
115	BLANK
116-156	BLANK
159-258	CROSS SECTIONS, INTERSTATE
259-263	CROSS SECTIONS, VT. RTE. 127
264-265	CROSS SECTIONS, VT. RTE. 127 APPROACH

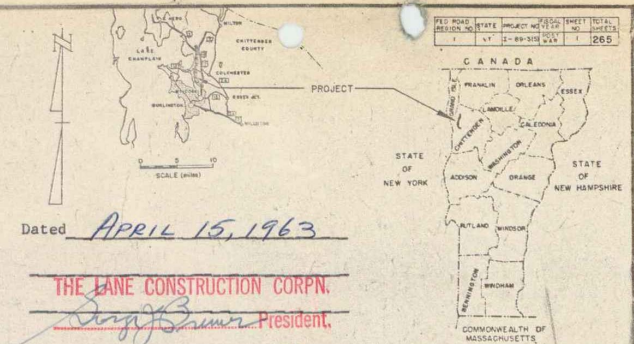
STATE OF VERMONT DEPARTMENT OF HIGHWAYS Proposed Improvement TOWN OF COLCHESTER COUNTY OF CHITTENDEN PROJECT 1 89-3 (19)

BEGINNING AT A POINT IN COLCHESTER 2.618 MILES NORTH OF THE WINDOOSKI - COLCHESTER TOWN LINE AND EXTENDING NORTHERLY FOR A DISTANCE OF 1.882 MILES

CONTRACT 2
STAGE 1
LENGTH OF ROADWAY 1.852 MILES OR 9,778.71 FEET
LENGTH OF BRIDGE 0.030 MILES OR 157.17 FEET
LENGTH OF CONTRACT 1.882 MILES OR 9935.88 FEET

DESIGN DESIGNATION

ADT 1958	3650
ADT 1975	8150
DWV 1975	1200
D	55 %
T	6 %
V	60 MPH



Dated APRIL 15, 1963

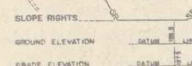
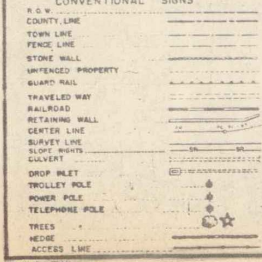
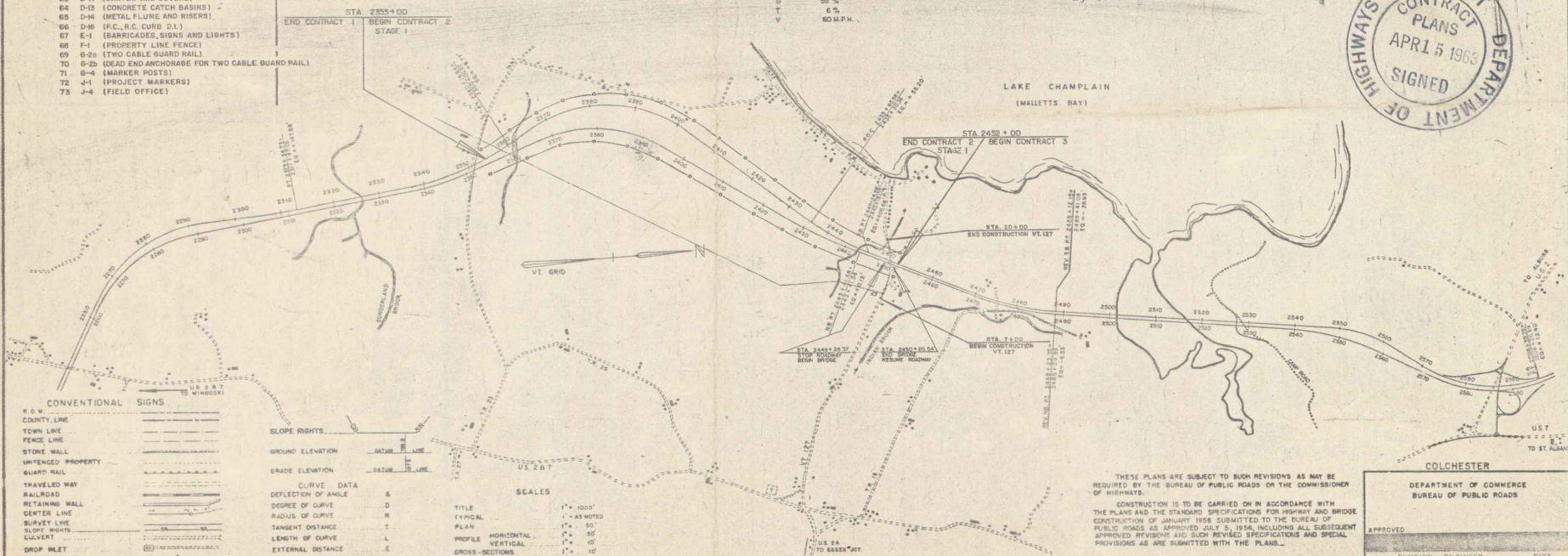
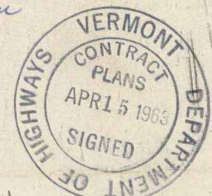
THE LANE CONSTRUCTION CORPN.

George B. Lane President

Contractor

Thomas D. Sheridan
Commissioner of Highways

By Order of Commissioner of Highways



DEFLECTION OF ANGLE	D
DEGREE OF CURVE	Δ
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	P.I.
POINT OF CURVE	P.C.
POINT OF TANGENT	P.T.
POINT ON TANGENT	P.O.T.
POINT ON SUB-TANGENT	P.O.S.T.
POINT ON CURVE	P.O.C.

TITLE	1" = 1000'
TYPICAL	1" = 45 NOTED
PLAN	1" = 80
PROFILE HORIZONTAL	1" = 80
PROFILE VERTICAL	1" = 10
CROSS-SECTIONS	1" = 10

APPROVED <i>Secondary Engineer</i>	APPROVED <i>Ed. Stebbins</i>	APPROVED <i>Sam Bond</i>	APPROVED <i>A. H. Bond</i>	APPROVED <i>G. M. Bond</i>	APPROVED <i>Ed. Stebbins</i>
DATE	DATE <u>July 14, 1961</u>	DATE <u>July 14, 1961</u>	DATE <u>July 13, 1961</u>	DATE <u>July 13, 1961</u>	DATE <u>July 13, 1961</u>

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION OF JANUARY 1958 SUBMITTED TO THE BUREAU OF PUBLIC ROADS AS APPROVED JULY 5, 1958, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

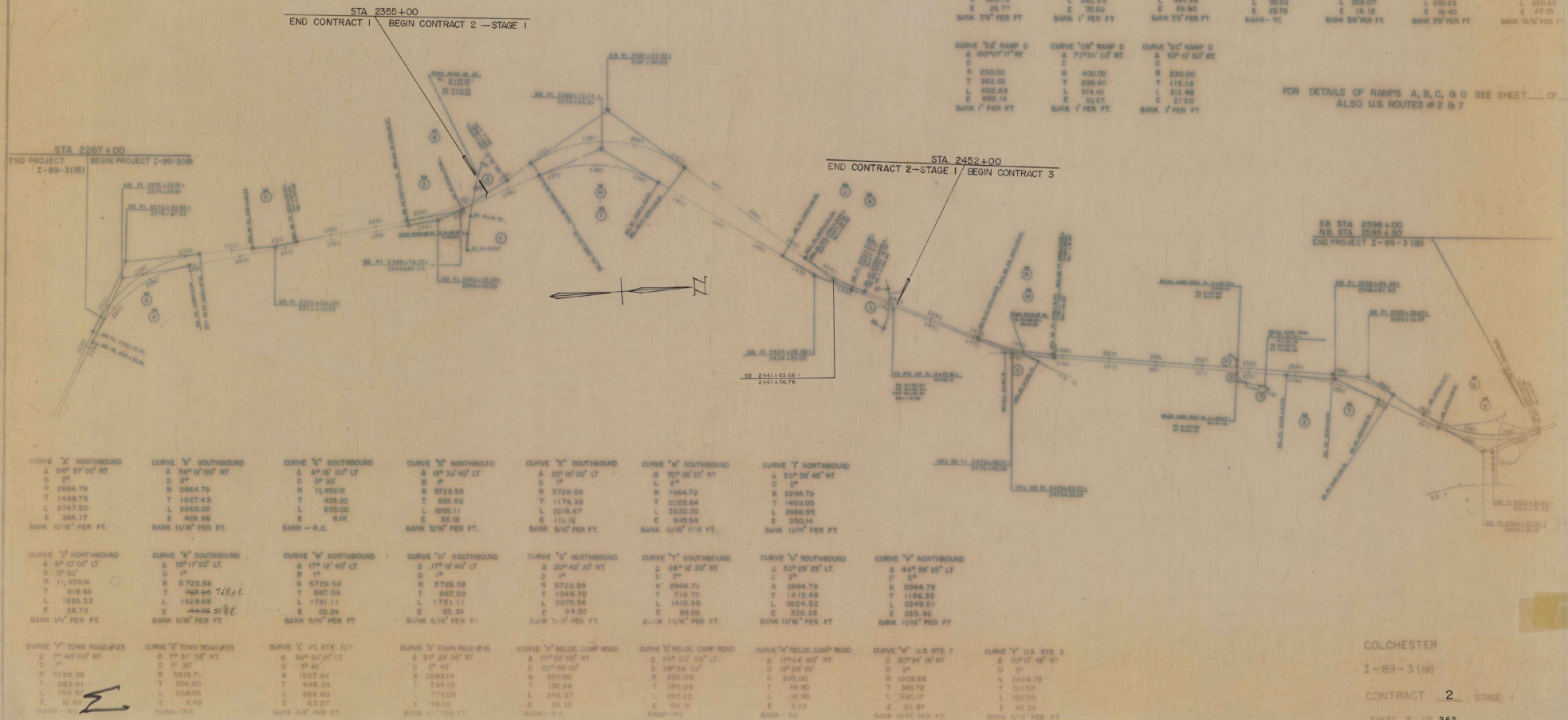
COLCHESTER	
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DIVISION ENGINEER	DATE
PROJECT 1 No. 89-3 (19)	
CONTRACT 2 - STAGE 1 CONSTRUCTION	
SHEET 1 OF 265 SHEETS	

COLCHESTER
INTERSTATE ROUTE # 89
ALIGNMENT SHEET

CURVE "1A" RAMP A	CURVE "1B" RAMP A	CURVE "1C" RAMP B	CURVE "1D" RAMP B	CURVE "1E" RAMP C	CURVE "1F" RAMP C	CURVE "1G" RAMP D
Δ 30° 51' 22" RT	Δ 59° 59' 48" RT	Δ 37° 23' 22" RT	Δ 9° 12' 52" RT	Δ 31° 05' 08" LT	Δ 39° 56' 36"	Δ 40° 50' 10" RT
D 8"	D 230.00	D 8"	D 8"	D 8"	D 8"	D 20"
R 716.20	R 197.65	R 716.20	R 467.50	R 467.50	R 38.67	R 372.00
T 197.65	T 152.79	T 152.79	T 61.50	T 132.81	T 104.03	T 327.65
L 395.70	L 240.94	L 467.50	L 16.54	L 259.07	L 201.23	L 450.50
E 26.77	E 35.56	E 35.56	E 23.70	E 19.12	E 16.40	E 47.30
BANK 10' PER FT	BANK 1' PER FT	BANK 10' PER FT	BANK - RC	BANK 50' PER FT	BANK 10' PER FT	BANK 10' PER FT

CURVE "1H" RAMP D	CURVE "1I" RAMP D	CURVE "1J" RAMP D
Δ 180° 07' 17" RT	Δ 73° 35' 20" RT	Δ 30° 12' 50" RT
D 8"	D 8"	D 8"
R 230.00	R 400.00	R 230.00
T 582.00	T 288.45	T 113.18
L 602.83	L 514.10	L 213.48
E 682.16	E 59.67	E 27.20
BANK 1' PER FT	BANK 1' PER FT	BANK 1' PER FT

FOR DETAILS OF RAMPS A, B, C, & D SEE SHEET ____ OF ____
ALSO U.S. ROUTES #2 & 7



THE COMMERCIAL FERTILIZER, ITEM 605, SHALL BE MIXED AS FOLLOWS:

	PERCENT	RATE OF APPLICATION
NITROGEN	15 %	800 LBS/ACRE
PHOSPHORUS	10 %	
POTASH	10 %	

FERTILIZER SHALL BE DELIVERED IN BAGS OF NOT TO EXCEED 100 LBS. EACH

SEEDING FORMULA		% WT	% AREA	% PURITY	
ORPINGTON RED FESCUE	15 LBS/ACRE	27.5	82	97	
KENTUCKY BLUE GRASS	15 LBS/ACRE	27.5	82	97	
RED TOP	15 LBS/ACRE	27.5	82	97	
DOMESTIC WYE GRASS	6 LBS/ACRE	11.0	80	98	
INERT MATERIAL	4 LBS/ACRE	7.1		90	

50 LBS. OF WINTER WYE PER ACRE, TO BE ADDED TO THIS MIXTURE, IF DIRECTED BY THE ENGINEER

MULCH, ITEM 622, TO BE PLACED ON ALL EARTH SLOPES (1 1/2 TON PER ACRE)
STEEL MANAGER POSTS, ITEM 643-0, TO BE PLACED AS DIRECTED BY THE ENGINEER
FOR DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, SEE SHEET A-61
FOR ROUNDING OF SLOPES, SEE SHEET B-5

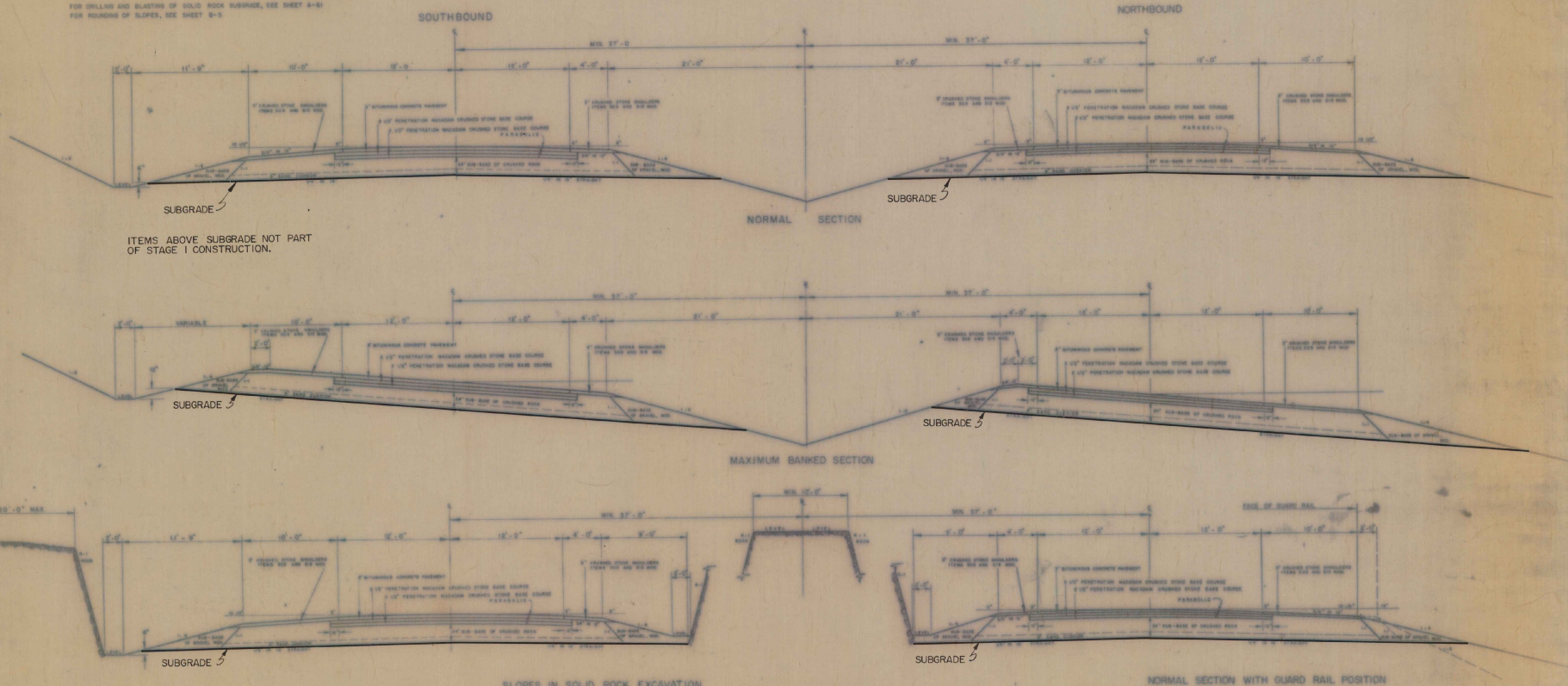
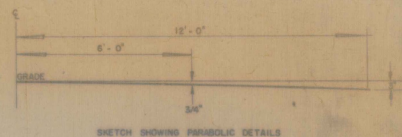
INTERSTATE TYPICAL SECTIONS

3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD. ($\pm 1/4"$)
2-2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 ($\pm 1/2"$ FOR TOTAL THICKNESS)
2 1/2" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD. ($\pm 1"$)
3" CRUSHED STONE SHOULDERS, ITEM 303 DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL
PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD.
SUB-BASE OF GRAVEL, ITEM 201-A, MOD.

THESE ITEMS ARE NOT PART OF
STAGE I CONSTRUCTION

PERMISSIBLE TOLERANCES IN PARENTHESIS
APPLY TO THICKNESS ONLY.

STAGE I CONSTRUCTION AS DESIGNED AS



SLOPES IN SOLID ROCK EXCAVATION
FOR TYPICAL SECTIONS IN ROCK CUTS, SEE SHEET A-61

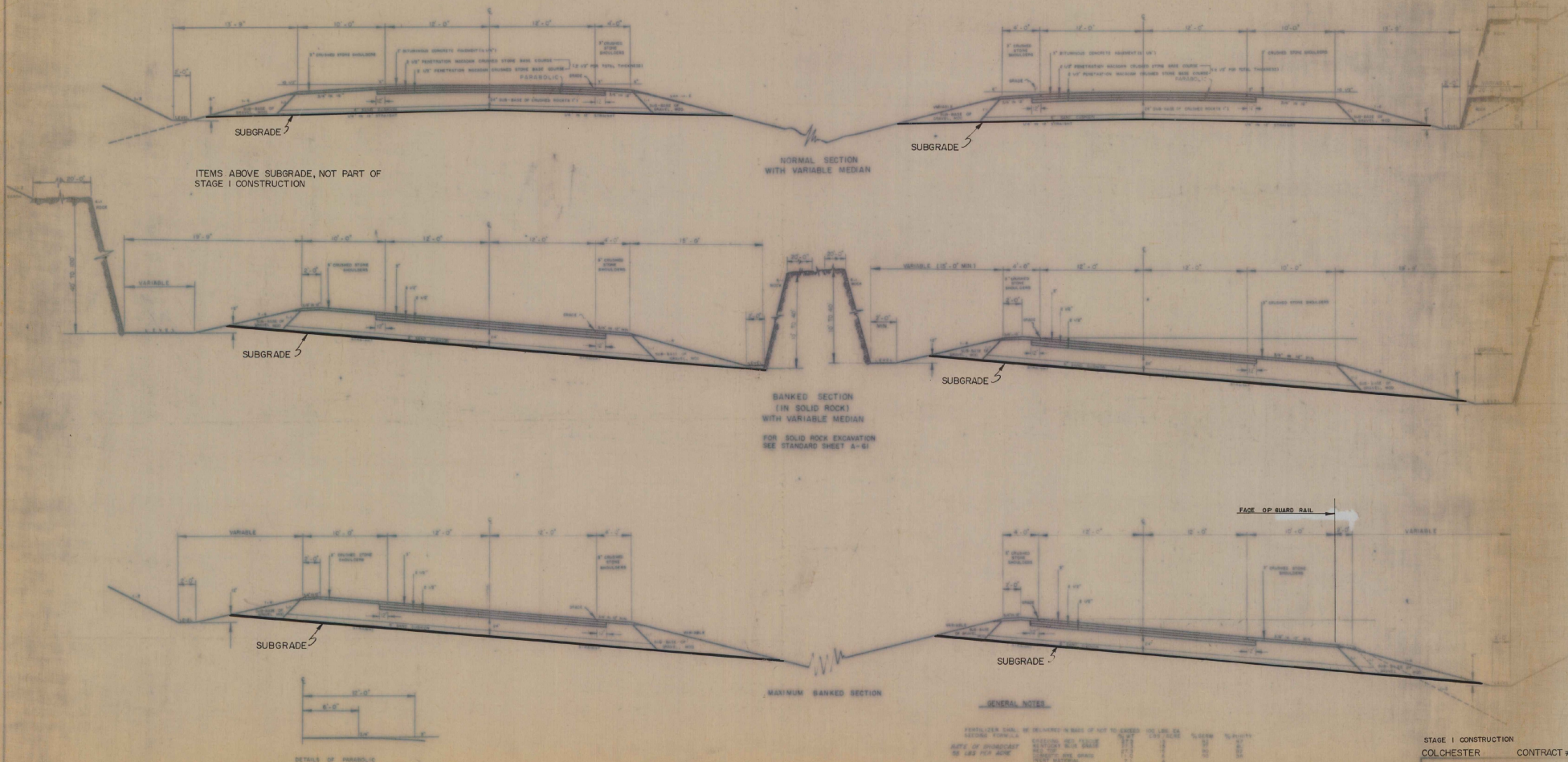
INTERSTATE TYPICAL SECTIONS

THESE ITEMS ARE NOT PART OF STAGE I CONSTRUCTION

- 5" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B, MODIFIED ($\pm 1/4"$)
- 2-2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 ($\pm 1/2"$ FOR TOTAL THICKNESS)
- 2 1/2" SUB-BASE OF CRUSHED ROCK, ITEM 204, MODIFIED ($\pm 1"$)
- 3" CRUSHED STONE SHOULDERS, ITEM 303
- SUB-BASE OF GRAVEL, ITEM 201-A, MODIFIED

STAGE I CONSTRUCTED AS DESIGNED AB

PERMISSIBLE TOLERANCES IN PARENTHESIS APPLY TO THICKNESS ONLY...



GENERAL NOTES

1. PAVEMENT SHALL BE DELIVERED IN BASE OF NOT TO EXCEED 10% LOSS OF MATERIAL.

2. EXISTING MATERIAL SHALL BE REUSED IN THE BASE COURSE OF THE PAVEMENT.

3. THE PAVEMENT SHALL BE CONSTRUCTED TO THE BASE OF THE ROAD.

4. THE PAVEMENT SHALL BE CONSTRUCTED TO THE BASE OF THE ROAD.

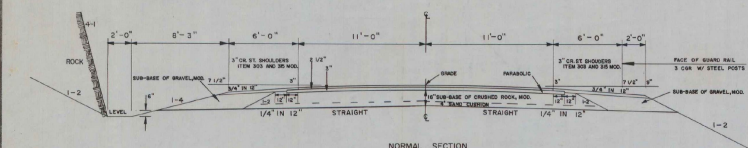
5. THE PAVEMENT SHALL BE CONSTRUCTED TO THE BASE OF THE ROAD.

TYPICAL SECTIONS VERMONT ROUTE #127

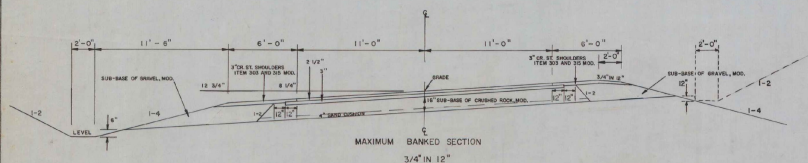
- 2 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD (± 1/4")
 3" CRUSHED GRAVEL PLANT MIXED BASE COURSE, ITEM 213 (± 1/2")
 16" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD (± 1")
 3" CRUSHED STONE SHOULDERS, ITEM 303
 DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL
 PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD.
 SUB-BASE OF GRAVEL, ITEM 201-A MOD.

STAGE 1 CONSTRUCTED AS DESIGNED

PERMISSIBLE TOLERANCES IN PARENTHESIS
 APPLY TO THICKNESS ONLY.



NORMAL SECTION

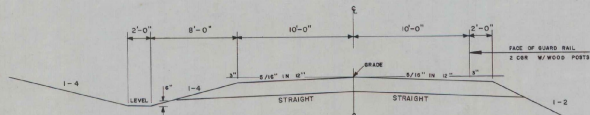


MAXIMUM BANKED SECTION
 3/4" IN 12"

VT. ROUTE 127 TO BE BUILT IN ITS ENTIRETY
 DURING STAGE 1 CONSTRUCTION.

CONTRACT # 2

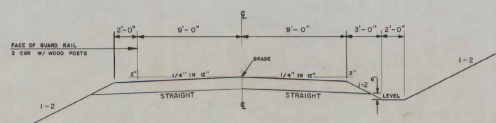
TYPICAL SECTION TOWN ROAD #23
 15" SUB-BASE OF GRAVEL, ITEM 201-A



TOWN ROAD #23 TO BE BUILT IN ITS
 ENTIRETY DURING STAGE 1 CONSTRUCTION.

CONTRACT # 1

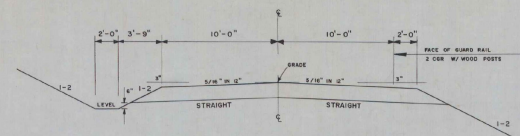
TYPICAL SECTION PRIVATE ROAD
 12" SUB-BASE OF GRAVEL, ITEM 201-A



PRIVATE ROAD AT 2450 & 2527 TO BE
 BE BUILT IN ITS ENTIRETY DURING STAGE 1 CONSTRUCTION

CONTRACTS 2 & 3

TYPICAL SECTION TOWN ROAD #16
 15" SUB-BASE OF GRAVEL, ITEM 201-A



TOWN ROAD #16 TO BE BUILT IN ITS ENTIRETY
 DURING STAGE 1 CONSTRUCTION

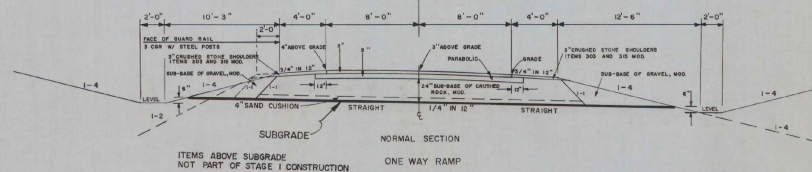
CONTRACT # 3

TYPICAL SECTIONS RAMPS

THESE ITEMS ARE NOT
 PART OF STAGE 1 CONSTRUCTION

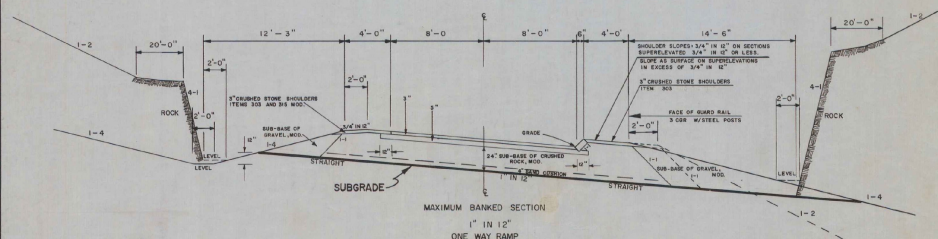
- 3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD (± 1/4")
 5" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 (± 1/2")
 24" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD (± 1")
 3" CRUSHED STONE SHOULDERS, ITEM 303
 DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL
 PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD.
 SUB-BASE OF GRAVEL, ITEM 201-A MOD.

PERMISSIBLE TOLERANCES IN PARENTHESIS
 APPLY TO THICKNESS ONLY.



ITEMS ABOVE SUBGRADE
 NOT PART OF STAGE 1 CONSTRUCTION

NORMAL SECTION
 ONE WAY RAMP



MAXIMUM BANKED SECTION
 1" IN 12"
 ONE WAY RAMP

CONTRACT # 4

STAGE 1 CONSTRUCTION
 COLCHESTER

DESIGNED: L.C.J.
 DRAWN & TRACED: CUMMINGS
 PROJECT: NO. 89-3 (19)
 CONTRACT # 2
 SHEET 5 OF 265

QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

COLCHESTER Contract 2 PROJECT NO. 189-3(19)

Stage 1 Construction

SUMMARY SHEET NO. OF 19

APPROXIMATE SUMMARY OF QUANTITIES

R. O. W.	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ROUNDING	ITEM NO.
		68,200	68,200	S.Y.	Common Excavation	400	101-A
		172,000	172,000	S.Y.	Solid Rock Excavation	286	101-B
		208,500	208,500	S.Y.	Borrow	521	102
		216,800	216,800	S.Y.	Granular Borrow	120	102-A
		7,400	7,400	S.Y.	Trench Excavation of Earth	6	103-A
		2,480	2,480	S.Y.	Trench Excavation of Rock	25	103-B
		1	1	L.S.	Clearing & Grubbing, Modified (31 Acres - Indiv. trees)		104
		7,200	7,200	S.Y.	Fine Grading - Supergrade, Mod.	1	105
		68	68	S.Y.	Channel Excavation of Earth	1	105-A
		20	20	S.Y.	Channel Excavation of Rock		105-B
1015		1,138	2,150	S.Y.	Structure Excavation	21	107
		7	7	DAY	Roadway Patrol Maintenance Est.		108
		128	128	M/Gal.	Dust Control Est.		111
		14,800	14,800	L.F.	Drilling & Blasting of Solid Rock	75	113
		41,700	41,700	S.Y.	Drilling & Blasting of Solid Rock		
		500	500	C.Y.	Subgrade, Modified	88	119
		54	54	MBUR	Work Excavation Est. Bulldozer Rental		119
		480	480	C.Y.	Sub-base of Gravel	4	201-A
		750	750	C.Y.	Sub-base of Gravel, Mod.	5	201-A
		4,050	4,050	C.Y.	Sub-base of Sand, Modified Est.		202
280		200	200	C.Y.	Sub-base of Cr. Rock, Mod. Under Structure		204
		1,770	1,770	C.Y.	Sub-base of Crushed Rock, Modified	15	205
		450	450	TON	Crushed Gravel Plant Mixed Base		
		55,095	55,095	CY/MI	Gravel Overhaul, Modified (6.5 mi.)	5	213
		907	1,100	C.Y.	Gravel Backfill	6	222
193		1,040	1,040	C.Y.	Stripping of Gravel Pits Est.		223
		140	140	C.Y.	Crushed Stone Shoulders	1	303
		1,600	1,600	GAL.	Double Tack Coat of Bit. Material w/Pea Stone & Stone Grits Seal, Primo Coat of Surf. Tar & Double Seal Coat of Cutback Asphalt	10	515
		625	625	GAL.	Cutback Asphalt	3	522
		410	410	TON	Bituminous Concrete Pavement, Mod.	1	561-B
		538	538	C.Y.	Concrete Class A, Mod.		601-A
338		525	525	C.Y.	Concrete Class B, Mod.	0.3	601-B
158,563		4,500	168,063	L.B.	Reinforcing Steel	32	602
227,720		227,720	227,720	L.B.	Structural Steel		604-A
70		70	70	S.Y.	Asphaltic Asbestos Coating		607
		70	70	C.Y.	Cement Rubble Masonry	0.4	611
		56	56	L.F.	12" Reinf. Conc. Pipe, Mod. Class III	Est.	621-D
		580	580	L.F.	18" Reinf. Conc. Pipe, Mod. Class III		621-E
		1,140	1,140	L.F.	24" Reinf. Conc. Pipe, Mod. Class III		621-F
		156	156	L.F.	24" Reinf. Conc. Pipe, Mod. Class IV		621-G
		384	384	L.F.	30" Reinf. Conc. Pipe, Mod. Class III		621-H
		92	92	L.F.	30" Reinf. Conc. Pipe, Mod. Class IV		621-I
		180	180	L.F.	30" Reinf. Conc. Pipe, Mod. Class V		621-J
		520	520	L.F.	42" Reinf. Conc. Pipe, Mod. Class III		621-K
		128	128	L.F.	12" Spec. Asph. Ctd. Corr. Galv. Metal Pipe Elbow		622-D
		24	24	L.F.	18" Spec. Asph. Ctd. Corr. Galv. Metal Pipe Elbow		622-E
		12	12	L.F.	36" Spec. Asph. Ctd. Corr. Galv. Metal Pipe Elbow		622-F
		72	72	L.F.	8" Asph. Ctd. Corr. Galv. Wet. Pipe		626-B
		730	730	L.F.	12" Asph. Ctd. Corr. Galv. Wet. Pipe		626-D
		668	668	L.F.	18" Asph. Ctd. Corr. Galv. Wet. Pipe		626-E
		216	216	L.F.	18" Asph. Ctd. Corr. Galv. Wet. Pipe 14 ga.		626-H
		178	178	L.F.	24" Asph. Ctd. Corr. Galv. Wet. Pipe		626-I
		272	272	L.F.	30" Asph. Ctd. Corr. Galv. Wet. Pipe 8 ga.		626-L
		192	192	L.F.	36" Asph. Ctd. Corr. Galv. Wet. Pipe		626-M
		160	160	L.F.	54" Asph. Ctd. Corr. Galv. Wet. Pipe		626-P
		370	370	L.F.	Relaying Pipe Culverts Est.		628
		1	1	L.S.	88"x182" Corr. Galv. Metal Plate Pipe Sta. 2361+77.58 (55,8534)		629-A
		1	1	L.S.	88"x208" Corr. Galv. Metal Plate Pipe Sta. 2361+00.00 (57,0406)		629-B
		1	1	L.S.	108"x330" Corr. Galv. Metal Plate Pipe Sta. 2363+285-2367+02.3458 (25,7502)		629-C
		3	3	EA.	16" Metal End Section for Corr. Galv. Metal Pipe		630-128

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
SOLID ROCK EXCAVATION		
103,538	S.Y.	Mainline
8,178	S.Y.	5% Overbreakage
286	S.Y.	Roundings
172,000	C.Y.	Total
100-A TRENCH EXCAVATION OF EARTH		
4,191	S.Y.	Pipe Culverts and Special Ditches
1,787	S.Y.	Underdrains, Designed
1,168	S.Y.	Underdrains, Est.
222	S.Y.	Relaying Pipe Culverts
222	S.Y.	Sleeves for Water Pipes
0	S.Y.	Roundings
7,600	S.Y.	Total
		</

STATE OF VERMONT DEPARTMENT OF HIGHWAYS
COLCHESTER Contract 2 PROJECT NO. 189-3(19)
 STAGE 1 Construction
 SUMMARY SHEET NO. OF 19

[illegible][illegible][illegible]

NORTHBOUND

EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. AID DIVISION NO. STATE PROJECT NO. YEAR SHEET NO. TOTAL SHEETS

VC	% GRADE	STATION	GRADES			CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK				ROCK				BASE				VC	% GRADE	STATION	GRADES			CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK				ROCK				BASE				VC	% GRADE	STATION	GRADES			CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK				ROCK				BASE				VC	% GRADE	STATION	GRADES			CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK				ROCK				BASE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			ELEVATION ON TANGENT	ELEVATION ON V. CURVES				AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.				AREA	CU YDS.	ELEVATION ON TANGENT			ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.				AREA	CU YDS.	ELEVATION ON TANGENT			ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES					AREA	CU YDS.			AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT	ELEVATION ON V. CURVES		AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	ELEVATION ON TANGENT

[illegible]

[illegible]

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

SOUTHBOUND

V.C.	STATION	GRADES			CORR. V.C.	DIST.	AL ELEVATION WITH ADJ. ROCK		ROCK		EMBANKMENT		BASE		
		ON TANGENT	EL. V.C. 100	ON V. CURVES			AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	
-0.491%	2390+47.3 +50	199.57 199.56	202.64 200.66	+1.07 +1.10	51.3						650	1321			
	+50	199.50 199.50	201.01 201.63	+1.71 +1.73	51.3						740	1378			
	+10.0 +50	199.09 199.09	201.52 201.52	+2.48 +2.48							710				
					51.4							1371			
	2400 +01.3	199.79 198.78	202.16 202.19	+3.38 +3.41							730				
	+50 +52.7	198.52 198.50	202.99 202.90	+4.42 +4.48	51.4							1279			
	2401 +04.0	198.26 198.24	203.85 203.93	+5.59 +5.69	51.3							611	1345		
	+50 +54.3	198.00 198.22	204.90 204.60	+6.90 +6.78	50.3							902	1306		
	2402 +04.3	200.40 200.72	206.09 206.20	+5.59 +5.48	50						1352	2481	C R F Fac. Exp	0 0 21897 1.25 26671	
	+50 +54.3	203.00 203.22	207.42 207.94	+4.42 +4.32	50						900	1702			
-5.999%	2403 +04.3	205.50 205.72	208.88 209.02	+3.38 +3.30	50						938	1946			
	+50 +54.3	208.00 208.22	210.48 210.63	+2.48 +2.41	50							1164	2318		
	2404 +11.3	210.72 210.72	212.39 212.39	+1.67 +1.73	50.1							1380	2081		
	+50 +54.4	213.00 213.22	214.10 214.29	+1.10 +1.06								1722			
	2405 +04.4	215.46 215.72	216.12 216.31	+0.62 +0.59	50							3837			
	+50 +54.4	218.00 218.22	218.20 218.47	+0.28 +0.25	50							1990	3667		
	2406 +04.4	220.50 220.72	220.57 220.78	+0.07 +0.06	50							1970	4120		
	+50 +54.4	223.00 223.22	223.00 223.22	0 0	50							2489	4996	C R F Fac. Exp	0 0 67988 1.25 84355
	2407 +04.4	225.50 225.72	225.41 225.65	-0.06 -0.07	50							2916	5806		
	+50 +54.4	228.00 228.22	227.75 227.94	-0.25 -0.28	50							3398	6637		
-10.000%	2408 +04.4	230.72 230.72	230.12 230.12	-0.60 -0.60	50.1							3770	7379		
	+50 +54.5	233.00 233.23	231.99 232.17	-1.01 -1.06	50							4200	7923		
	2409 +04.5	235.50 235.73	233.92 234.09	-1.58 -1.64	50							4340	8563		
	+50 +54.5	238.00 238.23	235.72 235.89	-2.28 -2.34	50							4692	9037		
	2410 +04.5	240.50 240.73	237.40 237.55	-3.10 -3.18	50							5068	9516		
	+50 +54.5	243.00 243.23	239.95 239.09	-4.05 -4.14	50							5210	10103		
	2411 +04.5	245.50 245.73	240.38 240.51	-5.12 -5.22	50							5702	10770	C R F Fac. Exp	15238 14065 98691 1.25 36391
	+50 +54.5	248.00 248.23	241.68 241.80	-6.32 -6.43	50							5930	10516		
	2412 +04.6	249.50 250.73	242.95 242.95	-7.65 -7.78	50.1							5428	8543		
	+50 +54.6	253.00 253.23	243.90 243.99	-9.10 -9.24	50							3780	6629		
1300' V.C.	2413 +04.6	255.50 255.73	244.82 244.99	-10.68 -10.83	50							3390	3130		
+5.000%															

VC	STATION	GRADES		CORR. Y.C.	DIST.	AL ELEVATION (FTH AND ROCK)		ROCK		EMBARKMENT		BASE	
		ON TANGENT	ON Y CURVES			AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS
+5.0000%	2419	+94.6	255.73	244.99	-10.83		1230		945		0		
	+50	258.00	245.61	-12.39	50	1630	2640	1870	2236				
	+54.6	258.23	245.68	-12.55									
	2418	260.50	246.28	-14.22	50	3168		3020					
	+94.6	260.73	246.34	-14.39		1792	1792						
	+50	263.00	246.82	-16.18	50	3587		3555					
	+54.6	263.23	246.87	-16.36		2092	2092						
	2415	265.50	247.23	-18.27	50	3812		3639					
	+94.6	265.73	247.27	-18.46		2176	1892						
	+50	268.00	247.52	-20.48	50.1	4129		3797					
	+54.7	267.01	247.55	-20.26		2298	2210						
	-4.1033%	2416	265.66	247.68	-18.27	50	2376	4315	2376	4216			
+94.7		265.76	247.70	-18.06									
+50		263.00	247.72	-16.18	50	4215		4072				C 2767	
+54.7		263.70	247.71	-15.59		2176	2022					R 2486	
												P 0	
2417		261.85	247.63	-18.22	50	3855		3363				Fac. 1.25	
+94.7		261.65	247.61	-18.04		1998	1610					Exc. 8598	
+50		255.79	247.40	-12.39	50	3331		2685					
+54.7		259.60	247.39	-12.22		1610	1290						
2418		257.74	247.06	-10.68	50	2705		2217					
+94.7		257.55	247.02	-10.53		1312	1104						
+50		255.68	246.59	-9.10	50	2133		1787					
+54.7	255.50	246.54	-9.96		992	826							
+5.0000%	2419	253.64	245.99	-7.65	50.1	646	1317	456	1224				
	+94.8	253.44	245.93	-7.51									
	+50	251.59	245.27	-6.32	50	348	920	210	654				
	+54.8	251.39	245.19	-6.20									
	2420	249.54	244.42	-5.12	50		554	351					
	+94.8	249.34	244.33	-5.01		250	115						
	+50	247.43	243.43	-4.05	50	185	403	45	148				
	+54.8	247.29	243.34	-3.95									
	2421	245.43	242.33	-3.10	50	87	252	0	42				
	+94.8	245.23	242.22	-3.01									
	+50	243.38	241.10	-2.28	50	129	200						
	+54.8	243.18	240.98	-2.20									
+5.0000%	2422	241.33	239.75	-1.58	50	200	305					C 1473	
	+94.8	241.13	239.61	-1.52								R 190	
	+50	239.28	238.27	-1.01	50	66	246				F 1782		
	+54.8	239.09	238.12	-0.96							Fac. 1.25		
											Exc 587		
	2423	237.23	236.66	-0.57	50.1	3	64		157				
	+94.9	237.02	236.49	-0.53					187				
	+50	235.17	234.92	-0.25	50		3		368				
	+54.9	234.97	234.74	-0.23		0			250				
	2424	233.12	233.06	-0.06	50				477				
	+94.9	232.92	232.87	-0.05					265				
	+50	231.07	231.07	0	50				425				
+54.9	230.87							194					
-4.1033%	2425	229.02			50				315				
	+94.9	228.82				0			146				
	+50	226.87			50		20		194				
	+54.9	226.77				22		68					
	2426	224.91			50		305		59				
	+94.9	224.71				307		0		0			
	+50	222.86			50.1	192	463	84	78				
	+54.9	222.66											
	2427	220.81			50		402		78				
	+95.0	220.61				242		0	0				
	+50	218.76			50		341		15				
	+55	218.55				126			16				
						1531	156	266					
						44023	37142	2030					

[illegible]

COLCHESTER SOUTHBOUND CONTRACT 2

PROJECT NO. 89-3(29)

Stage 2 Construction

PRIVATE ROAD @ 2450 VT. RTE. 127

[illegible]

EARTHWORK SUMMARY

SUMMARY BY COLUMNS

NORTHBOUND				SUMMARY OF BALANCES				SOUTHBOUND				SUMMARY OF BALANCES				SHEET NO.				COL NO.							
STATION TO	STATION	TOTAL EXCAVATION CUT & FILL CUBIC YARDS	ROCK EXCAVATION CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	FILL	ACCUMULATIVE CUT	EXCESSES FILL	STATION TO	STATION	TOTAL EXCAVATION CUT & FILL CUBIC YARDS	ROCK EXCAVATION CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	FILL	ACCUMULATIVE CUT	EXCESSES FILL	STATION TO	STATION	TOTAL EXCAVATION CUT & FILL CUBIC YARDS	ROCK EXCAVATION CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	FILL	ACCUMULATIVE CUT	EXCESSES FILL	
NORTHBOUND																											
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											
24																											
25																											
26																											
27																											
28																											
29																											
30																											
31																											
32																											
33																											
34																											
35																											
36																											
37																											
38																											
39																											
40																											
41																											
42																											
43																											
44																											
45																											
46																											
47																											
48																											
49																											
50																											
51																											
52																											
53																											
54																											
55																											
56																											
57																											
58																											
59																											
60																											
61																											
62																											
63																											
64																											
65																											
66																											
67																											
68																											
69																											
70																											
71																											
72																											
73																											
74																											
75																											
76																											
77																											
78																											
79																											
80																											
81																											
82																											
83																											
84																											
85																											
86																											
87																											
88																											
89																											
90																											
91																											
92																											
93																											
94																											
95																											
96																											
97																											
98																											
99																											
100																											
101																											
102																											
103																											
104																											
105																											
106																											
107																											
108																											
109																											
110																											
111																											
112																											
113																											
114																											
115																											
116																											
117																											
118																											
119																											
120																											
121																											
122																											
123																											
124																											
125																											
126																											
127																											
128																											
129																											
130																											
131																											
132																											
133																											
134																											
135																											
136																											
137																											
138																											
139																											
140																											
141																											
142																											
143																											
144																											
145																											
146																											
147																											
148																											
149																											
150																											
151																											
152																											
153																											
154																											
155																											
156																											
157																											
158																											
159																											
160																											
161																											
162																											
163																											
164																											
165																											
166																											
167																											
168																											
169																											
170																											
171																											
172																											
173																											
174																											
175																											
176																											
177																											
178																											
179																											
180																											
181																											
182																											
183																											
184																											
185																											
186																											
187																											
188																											
189																											
190																											
191																											
192																											
193																											
194																											
195																											
196																											
197																											
198																											
199																											
200																											
201																											
202																											
203																											
204																											
205																											
206																											
207																											
208																											
209																											
210																											
211																											
212																											
213																											
214																											
215																											
216																											
217																											
218																											
219																											
220																											
221																											
222																											
223																											
224																											
225																											
226																											
227																											
228																											
229																											
230																											
231																											
232																											
233																											
234																											
235																											
236																											
237																											
238																											
239																											
240																											
241																											
242																											
243																											
244																											
245																											
246																											
247																											
248																											
249																											
250																											
251																											
252																											
253																											
254																											
255																											
256																											
257																											
258																											
259																											
260																											
261																											
262																											
263																											
264																											
265																											
266																											
267																											
268																											
269																											
270																											
271																											
272																											
273																											
274																											
275																											
276																											
277																											
278																											
279																											
280																											
281																											
282																											
283																											
284																											
285																											
286																											
287																											
288																											
289																											
290																											
291																											
292																											
293																											
294																											
295																											
296																											
297																											
298																											
299																											
300																											
301																											
302																											
303																											
304																											
305																											
306																											
307																											
308																											
309																											
310																											
311																											
312																											
313																											
314																											
315																											
316																											
317																											
318																											
319																											
320																											
321																											
322																											
323																											
324																											
325																											
326																											
327																											
328																											
329																											
330																											
331																											
332																											
333																											
334																											
335																											
336																											
337																											
338																											
339																											
340																											
341																											
342																											
343																											
344																											
345																											
346																											
347																											
348																											
349																											
350																											
351																											
352																											
353																											
354																											
355																											
356																											
357																											
358																											
359																											
360																											
361																											
362																											
363																											
364																											
365																											
366																											
367																											
368																											
369																											
370																											
371																											
372																											
373																											
374																											
375																											
376																											
377																											
378																											
379																											
380																											
381																											
382																											
383																											
384																											
385																											
386																											
387																											
388																											
389																											
390																											
391																											
392																											
393																											
394																											
395																											
396																											
397																											
398																											
399																											
400																											
401																											
402																											
403																											
404																											
405																											
406																											
407																											
408																											
409																											
410																											
411																											
412																											
413																											
414																											
415																											
416																											
417																											
418																											
419																											
420																											
421																											
422																											
423																											
424																											
425																											
426																											
427																											
428																											
429																											
430																											
431																											
432																											
433																											
434																											
435																											
436																											
437																											
438																											
439																											
440																											
441																											
442																											
443																											
444																											
445																											
446																											
447																											
448																											
449																											
450																											
451																											
452																											
453																											
454																											
455																											
456																											
457																											
458																											
459																											
460																											
461																											
462																											
463																											
464																											
465																											
466																											
467																											
468																											
469																											
470																											
471																											
472																											
473																											
474																											
475																											
476																											
477																											
478																											
479																											
480																											
481																											
482																											
483																											
484																											
485																											
486																											
487																											
488																											
489																											
490																											
491																											
492																											
493																											
494																											
495																											
496																											
497																											
498																											
499																											
500																											
501																											
502																											
503																											
504																											
505																											
506																											
507																											
508																											
509																											
510																											
511																											
512																											
513																											
514																											
515																											
516																											
517																											
518																											
519																											
520																											
521																											
522																											
523																											
524																											
525																											
526																											
527																											
528																											
529																											
530																											
531																											
532																											
533																											
534																											
535																											
536																											
537																											
538																											
539																											
540																											
541																											
542																											
543																											
544																											
545																											
546																											
547																											
548																											
549																											
550																											
551																											
552																											
553																											
554																											
555																											
556																											
557																											
558																											
559																											
560																											
561																											
562																											
563																											
564																											
565																											
566																											
567																											
568																											
569																											
570																											
571																											
572																											
573																											
574																											
575																											
576																											
577																											
578																											
579																											
580																											
581																											
582																											
583																											
584																											
585																											
586																											
587																											
588																											
589																											
590																											
591																											
592																											
593																											
594																											
595																											
596																											
597																											
598																											
599																											
600																											
601																											
602																											
603																											
604																											
605																											
606																											
607																											
608																											
609																											
610																											
611																											
612																											
613																											
614																											
615																											
616																											
617																											
618																											
619																											
620																											
621																											
622																											
623																											
624																											
625																											
626																											
627																											
628																											
629																											
630																											
631																											
632																											
633																											
634																											
635																											
636																											
637																											
638																											
639																											
640																											
641																											
642																											
643																											
644																											
645																											
646																											
647																											
648																											
649																											
650																											
651																											
652																											
653																											
654																											
655																											
656																											
657																											
658																											
659																											
660																											
661																											
662																											
663																											
664																											
665																											
666																											
667																											
668																											
669																											
670																											
671																											
672																											
673																											
674																											
675																											
676																											
677																											
678																											
679																											
680																											
681																											
682																											
683																											
684																											
685																											
686																											
687																											
688																											
689																											
690																											
691																											
692																											
693																											
694																											
695																											
696																											
697																											
698																											
699																											
700																											
701																											
702																											
703																											
704																											
705																											
706																											
707																											
708																											
709																											
710																											
711																											
712																											
713																											
714																											
715																											
716																											
717																											
718																											
719																											
720																											
721																											
722																											
723																											
724																											
725																											
726																											
727																											
728																											
729																											
730																											
731																											
732																											
733																											
734																											
735																											
736																											
737																											
738																											
739																											
740																											
741																											
742																											
743																											
744																											
745																											
746																											
747																											
748																											
749																											
750																											
751																											
752																											
753																											

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS29

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

Sheet #6

FINAL EARTHWORK SUMMARY SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

NOTES	STATIONS	TOTAL EXCAVATION			EMBANKMENT			UNAUTHORIZED WASTE			OVER BRIDGE			5%			Rock Borrow			Earth Borrow			EARTH BORROW	SHEET	COLUMN	COLUMN SUMMARY									
		DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE				EXPLANATION	AMT	UNAUTHORIZED WASTE	DB	5%	Rock Borrow				
	140 2355-2360	979	0		0			16973	17557														1	1	32553	27063	79559	5210	1385	327					
	140 2355-2360	979	1232		0			1302	1353														2	2	33228	10087	6445	15151	3802	1048	5400				
	140 2360-2365	765	0		0			56470	58124														3	3	42224	36376	7006	11336	6919	1809	5400				
	140 2360-2365	765	321		0			50112	51671														4	4	32425	28629	37226	1116	5326	1059	5400				
	140 2365-2370	1231	1219		1010	10205		871	853				2102				515			1557					5	5	2565	202	58318	689	30	453			
	140 2365-2370	75	47		10			6054	5217																6	6	6588	4930	51415	576	6210	1306	3504		
	140 2370-2375	1960	1959		1646	1646		779	434				1182				848			2132					7	7	37123	35086	15305	576	6210	1306	3504		
	140 2370-2375	1059	965		966	702		6198	6787								36			453					8	8	30439	12566	7521	93	6210	1306	3504		
	140 2375-2380	808	1366		616	640		22362	21800				6572				32			112					9	9	3833	0	12693	933					
	140 2375-2380	0	0		0	0		8928	8773																10	10	27832	0	2467	268					
	140 2380-2385	4686	5030		3785	3942		5692	3392				6070				802			416					11	11	0	0	0	0					
	140 2380-2385	38	48		0	0		7019	6451																12	12	15972	14001	12326	12310					
	140 2385-2390	15972	14001		12326	12310		92	74				631				621			1212					13	13	460	221	939	47					
	140 2385-2390	460	221		157	47		939	9887				0				21			19					14	14	0	0	0	0					
	140 2390-2395	12053	12777		586	4139		1821	1694				0				1302			227					15	15	0	0	0	0					
	140 2390-2395	575	3709		4719	4000		5657	3613				0				649			185					16	16	0	0	0	0					
	140 2395-2400	41	57		0	0		8492	9435				14315				0			0					17	17	0	0	0	0					
	140 2395-2400	515	1122		515	829		1409	10687				0				211			63					18	18	0	0	0	0					
	140 2400-2405	23920	23931		22806	2364		14031	1412				4532				131			2371					19	19	0	0	0	0					
	140 2400-2405	0	0		0	0		21357	21343				0				42			0					20	20	0	0	0	0					
	140 2405-2410	17530	17363		18511	13775		0	0				0				2803			2166					21	21	0	0	0	0					
	140 2405-2410	0	0		0	0		67084	67054				2324				0			3					22	22	0	0	0	0					
	140 2410-2415	777	938		254	181		6225	6772				0				172			3					23	23	0	0	0	0					
	140 2410-2415	15234	14065		14065	13312		47631	37261				3535				646			2727					24	24	0	0	0	0					
	140 2415-2420	12	0		0	0		3914	4399				0				3725			0					25	25	0	0	0	0					
	140 2415-2420	27674	26319		28346	26445		0	0				3725				1334			2091					26	26	0	0	0	0					
	140 2420-2425	6636	6480		1213	1310		606	657				0				365			297					27	27	0	0	0	0					
	140 2420-2425	1473	1155		190	338		1362	2336				0				270			259					28	28	0	0	0	0					
	140 2425-2430	2024	25129		17447	14261		109	276				19				280			2000					29	29	0	0	0	0					
	140 2425-2430	16201	5445		1728	1755		383	814				0				81			345					30	30	0	0	0	0					
	140 2430-2435	1024	566		102	36		5750	5611				356				0			175					31	31	0	0	0	0					
	140 2430-2435	15103	15178		17205	11670		2358	2460				63				2518			0					32	32	0	0	0	0					
	140 2435-2440	0	0		0	0		14147	13671				651				0			0					33	33	0	0	0	0					
	140 2435-2440	5765	5582		0	0		392	511				10				0			0					34	34	0	0	0	0					
	140 2440-2445	0	0		0	0		67051	63917				927				0			0					35	35	0	0	0	0					
	140 2440-2445	1335	1364		0	0		15002	19002				933				0			0					36	36	0	0	0	0					
	140 2445-2450	0	0		0	0		6062	6237				0				0			0					37	37	0	0	0	0					
	140 2445-2450	0	0		0	0		63607	65200				0				0			0					38	38	0	0	0	0					
	140 2450-2455	0	0		0	0		704	717				0				0			0					39	39	0	0	0	0					
	140 2450-2455	0	0		0	0		22603	22191				0				0			0					40	40	0	0	0	0					
Main Line Totals		286855	221113		146845			627711				29740					8357			22771					5918										
Vt 127		710	1010		1767	883		0	21																										
		1010	1510		14056	13176		0	0																										
		1340	20100		10615	7547		0	2266			168																							
Private Rd.		513525	misc	9323	4716		0	126	120			100																							
Drive 127 1461		2	0		0			0	0																										
Drive 127 915		0	0		0			10	0																										
GRAND TOTALS		287130	221445		146845			627711				29740					8357			22771					5918										

5916	TOTALS	298,945	164,885	632,111	37,011	30,841	8=5	22,717
	REMARKS							
	EARTH & ROCK EXCAVATION							248,945
	SOLID ROCK							- 164,885
	EARTH							84,100
	PLANNED FILL							632,111
	LESS FACTORED SOLID ROCK (Factor 1.40)							- 236,108
	LESS 5% OVERBURDEN (227' x 140')							- 11,500
	LESS 5% BORROW (100' x 140')							- 9,800
	LESS STURGEON DISPLACEMENT							- 1,070
	NET PLANNED FILL (1.25 x 358,540')							365,855
	MATERIAL AVAILABLE FOR FILL							
	EARTH EXCAVATION							85,120
	FILL EXCAVATION & SLOPE DISTURBANCE (400' @ 15%)							6,368
	STURGEON EXCAVATION (100' x 140')							1,771
(10)	BORROW & BORROW (100' x 140')							2,610
(10)	SUBGRADE (100' x 140') @ 10%							3,485
	TOTAL MATERIAL AVAILABLE FOR FILL							105,354
	STURGEON DISPLACEMENT							1,916
	CORRECTION							82,767
	PLANNED FILL FROM EXCAVATION							5,918
	LESS UNADJUSTED BORROW							- 57,101
	NET BORROW							39,885
	TOTAL MATERIAL AVAILABLE FOR FILL							105,354
	NET BORROW							3,747,896
								504,354
	Factor = $\frac{504,354}{248,945} = 2.03$							
	SECT LAST PAGE 11 & 12 & 128							
	PROJECT I 83-319) C2 COLLEGE							
	SHEET NO. SHEETS							

PARCEL : 35 STA 245H23-2452+15
GRANTOR : PERRY M & DORA G. CURTIS, ET AL.
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 G STA 245H23-2452+15
GRANTOR : DOROTHY B. FARDELMANN
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 N STA 245H23-2452+15
GRANTOR : JOHN J. & ANN. PETRE
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 T STA 245H23-2452+15
GRANTOR : CLEMENT L. & YVONNE M. BARTLETT
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 - 1 STA 245H23-2452+15
GRANTOR : ARMAND B. MARIE ANGE TESSIER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35A STA 245H23-2452+15
GRANTOR : RENA CALKINS
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/20/62 COLCHESTER BK. 3 PG. 333 DT. 10/4/62

PARCEL : 35 H STA 245H23-2452+15
GRANTOR : DAVIS N. JR. & MILDRED D. HANNUM
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 O STA 245H23-2452+15
GRANTOR : RICHARD H. JR. & BETSY N. SAUNDER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 U STA 245H23-2452+15
GRANTOR : JOSEPH C. & IRENE BISSONNETTE & JOSEPH P. BISSONNETTE
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 - 2 STA 245H23-2452+15
GRANTOR : WILLIAM G. & ELEANOR M. YOUNG
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35B STA 245H23-2452+15
GRANTOR : EDWARD & KATHLEEN H. BAKER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 I STA 245H23-2452+15
GRANTOR : EDDYTHE B. HOAG
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 P STA 245H23-2452+15
GRANTOR : VERNON A. & ANTONIA G. SCHUMACHER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/26/62 COLCHESTER BK. 3 PG. 334 DT. 12/4/62

PARCEL : 35 V STA 245H23-2452+15
GRANTOR : EUGENE J. & ETHEL J. DEGRAFF
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : WD. 10/24/62 COLCHESTER BK. 8 PG. 204 DT. 11/1/62

PARCEL : 35C STA 245H23-2452+15
GRANTOR : MERRILL C. & MARY T. BOOTH
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 J STA 245H23-2452+15
GRANTOR : LEON J. & FLORENCE M. LA CHAPELLE
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/26/62 COLCHESTER BK. 3 PG. 330 DT. 12/4/62

PARCEL : 35 D STA 245H23-2452+15
GRANTOR : SCOTT & IRENE STAPLETON
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 W STA 245H23-2452+15
GRANTOR : HOWARD J. & LIDA S. DE MAR
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 D STA 245H23-2452+15
GRANTOR : SAMUEL J. BOWMAN
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 K STA 245H23-2452+15
GRANTOR : LAVINA & MARION LARICHELIER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/14/62 COLCHESTER BK. 3 PG. 331 DT. 11/23/62

PARCEL : 35 R STA 245H23-2452+15
GRANTOR : ROLAND M. & ELIZABETH WHITTIER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 X STA 245H23-2452+15
GRANTOR : JOSEPH A. H. & ANITA M. GRANGER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 E STA 245H23-2452+15
GRANTOR : ALLAN B. & RUTH L. BURNETT
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 L STA 245H23-2452+15
GRANTOR : ROE B. & SARAH S. MC KENZIE
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/14/62 COLCHESTER BK. 3 PG. 334 DT. 12/4/62

PARCEL : 35 STA 245H23-2452+15
GRANTOR : PERRY M. & DORA G. CURTIS, ET AL.
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : O.C.D. 11/14/62 COLCHESTER BK. 3 PG. 334 DT. 12/4/62

PARCEL : 35 Y STA 245H23-2452+15
GRANTOR : ROBERT F. JACOBUS
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 F STA 245H23-2452+15
GRANTOR : ROBERT L. & BERNICE CARLSON
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : COND. 10/26/62 COLCHESTER BK. 12 PG. 339-79 DT. 11/3/62

PARCEL : 35 M STA 245H23-2452+15
GRANTOR : DONALD B. & EMELINE F. MILLER
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

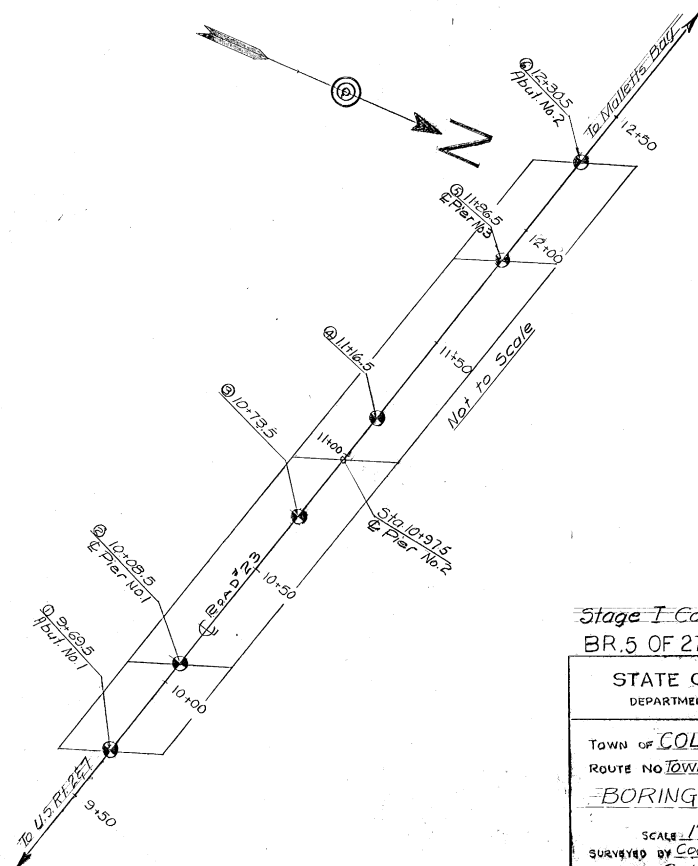
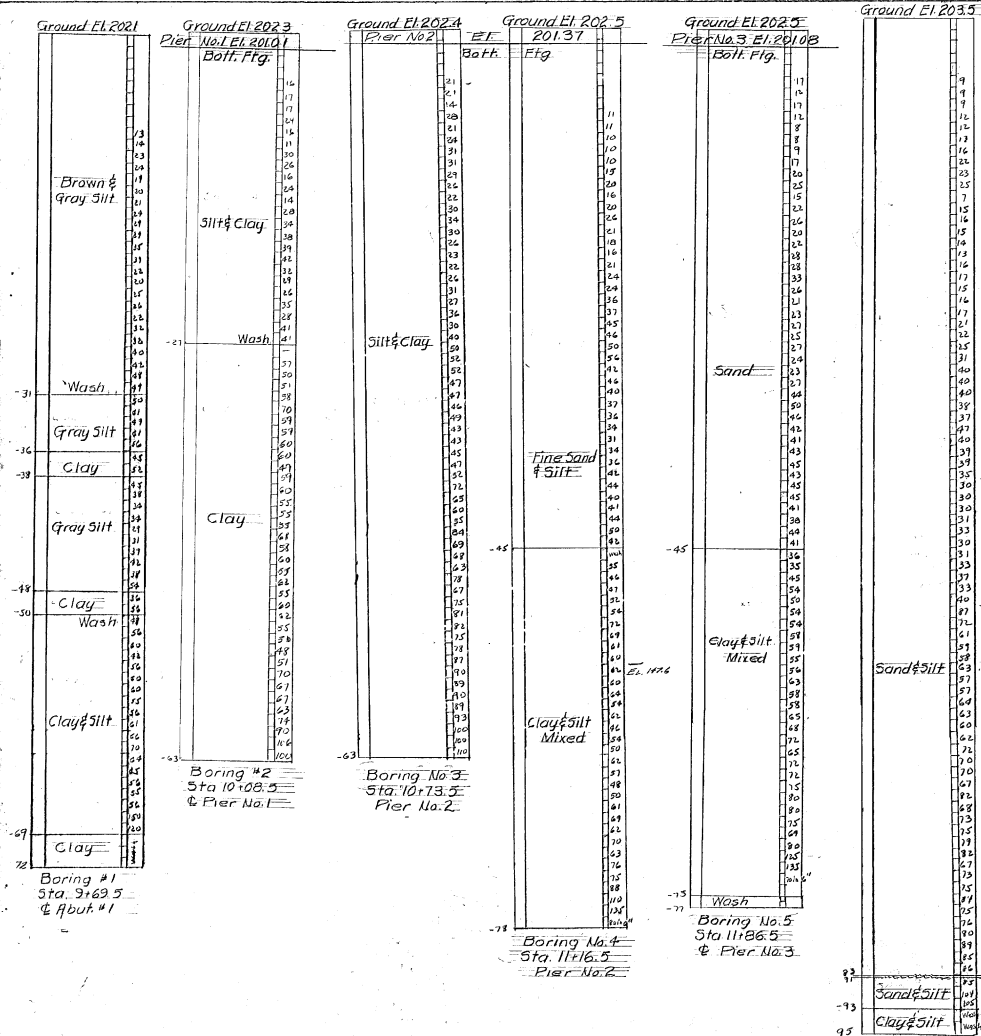
PARCEL : 35 S STA 245H23-2452+15
GRANTOR : WILLIAM A. & ANNA C. BARTINOSKI
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

PARCEL : 35 Z STA 245H23-2452+15
GRANTOR : EARL H. & LOIS A. KELLY
TAKING : NONE REM.
RIGHTS : CAMP ROAD R.O.W.
TITLE TAKEN :
RECORDED : BK. PG. DT.

Abut. No. 1 E.I. 220.38
Bott. Footing

Abut. No. 2 E.I. 220.80
Bott. Fig.

DATUM 205.00

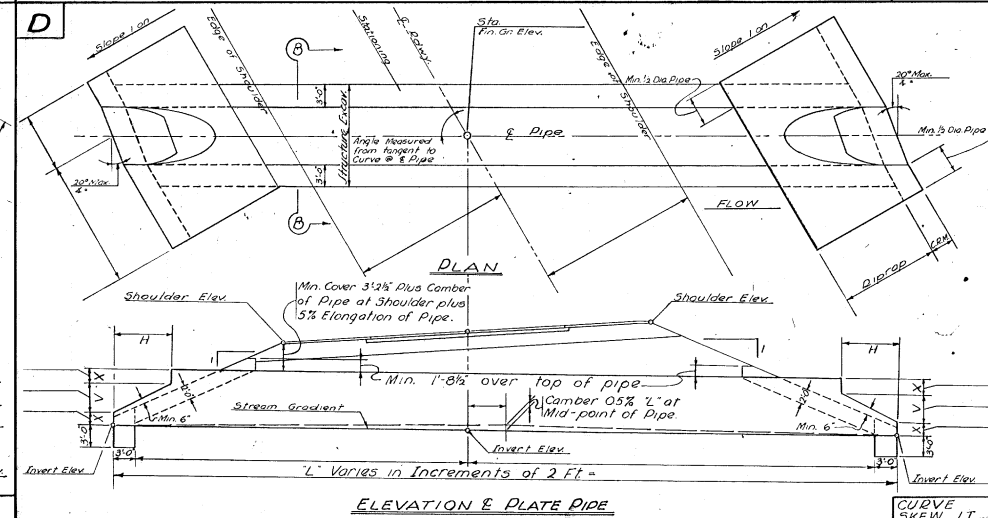
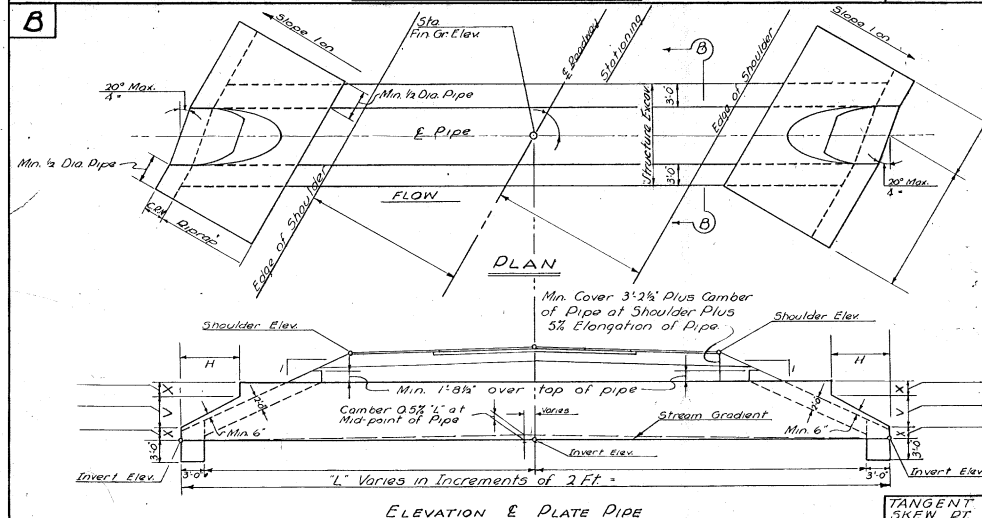
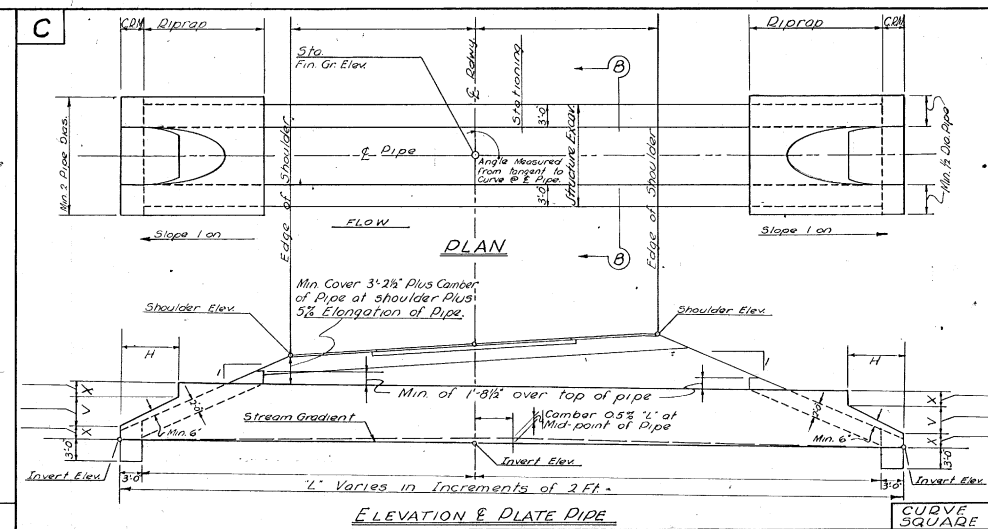
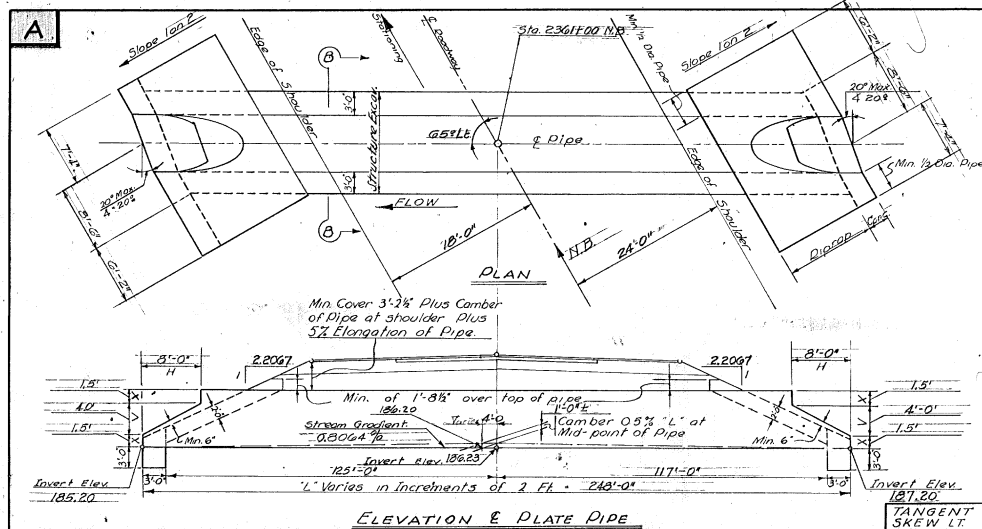


Stage I Construction
BR.5 OF 27

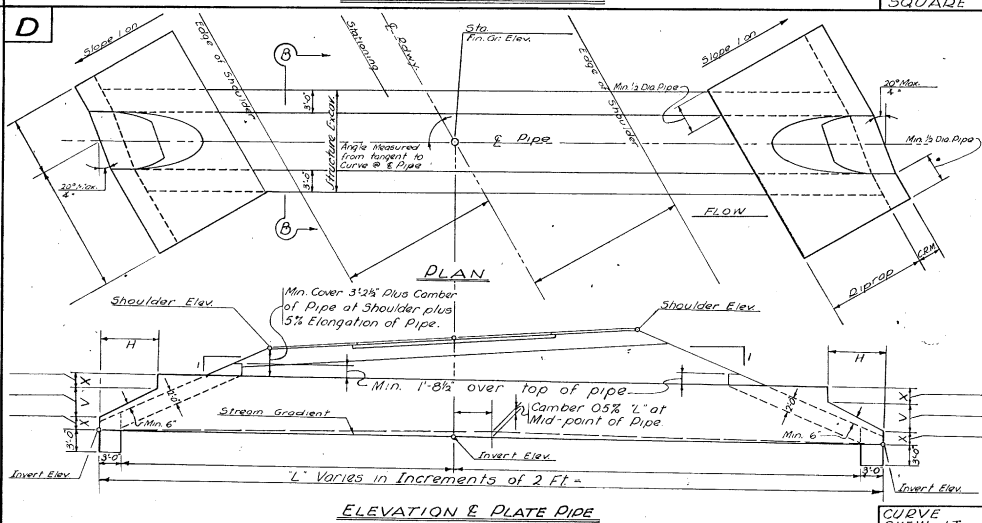
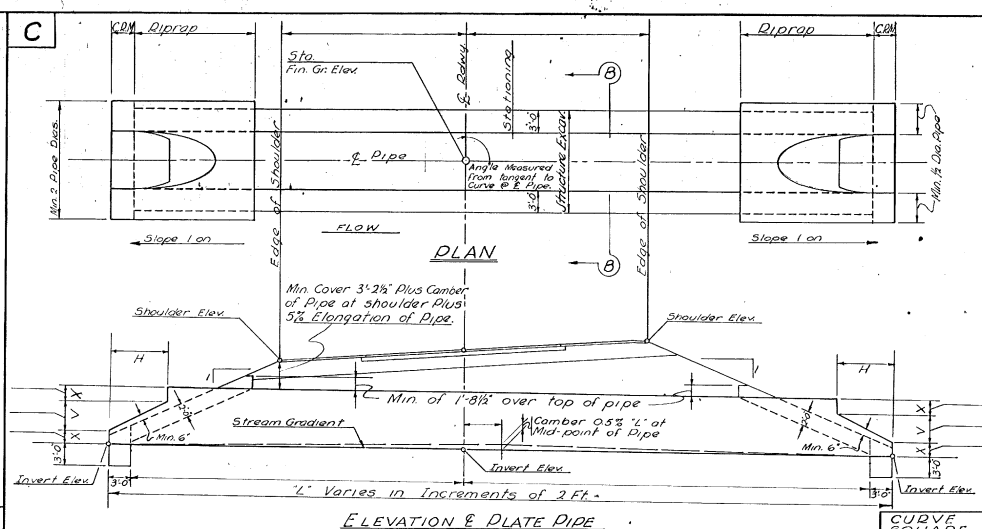
STATE OF VERMONT DEPARTMENT OF HIGHWAYS.	
TOWN OF COLCHESTER	
ROUTE NO. TOWN RD. 123 OVER I-89	
BORING LAYOUT	
SCALE 1" = 5'-0" (Vertical)	
SURVEYED BY COOK & BORZONE	
DRAWN BY G. V. K. CHECKED BY: R. M.	
PROJECT NO. I 89-3 (19)	
SHEET 23 OF 265	

CONT. NO. 1

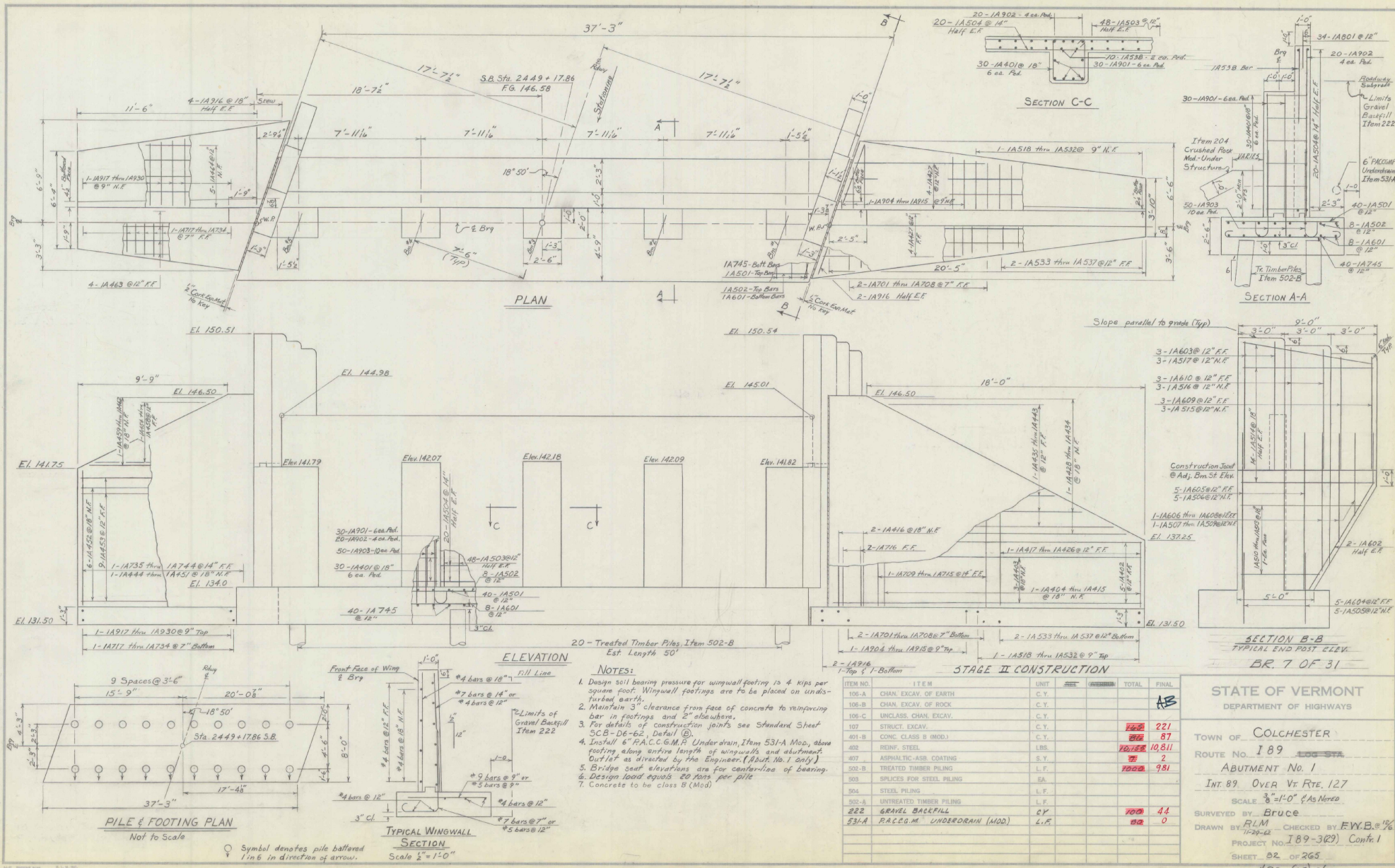
CONTRACT #1 PROJECT NO. 189-3(29)
BR 3 OF 31 SHEET NO. 80 OF 265
*86 (19) C/2

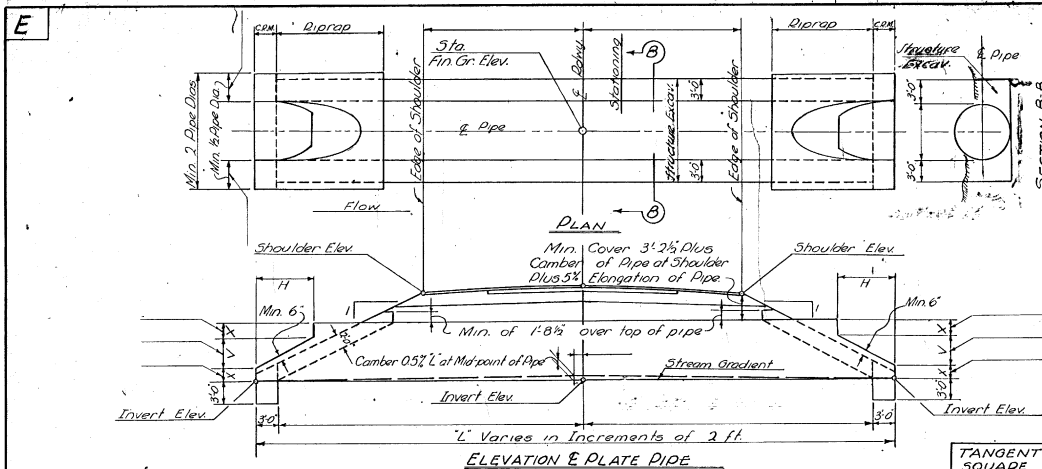


Revisions & Corrections- Gravel Backfill Deleted May 27, 1959 WDB	Drawn By: J.A.B. Mar. 1959 Traced By: H.W.B. Mar. 1959 Checked By: R.T.B. Apr. 1959 Correct: A.M. 1959 Approved: N.E. 1959 Chief Engineer	DETAILS OF ROUND PLATE PIPE Sheet 1 of 2 USE DETAIL "A" FOR THIS PIPE Use Section "B-B", Detail "E", for all pipes DIA. OF PIPE = 36" O.A. LENGTH = 240'-0" TOTAL WEIGHT = 57,040 Lbs. GAGE TOP R.S. = 2" GAGE BOT. R.S. = 1" CAMBER = 1'-0"	STATE OF VERMONT DEPARTMENT OF HIGHWAYS STANDARD STRUCTURES SB-PP#1	TOWN OF COLCHESTER ROUTE NO. 1-89, E.D.S. 2361+00 SURVEYED BY A. Bawick COMPLETED BY D.E.B. CHECKED BY A.E.K. PROJECT NO. 1-89-3(19) SHEET 90 OF 203
--	--	---	--	---



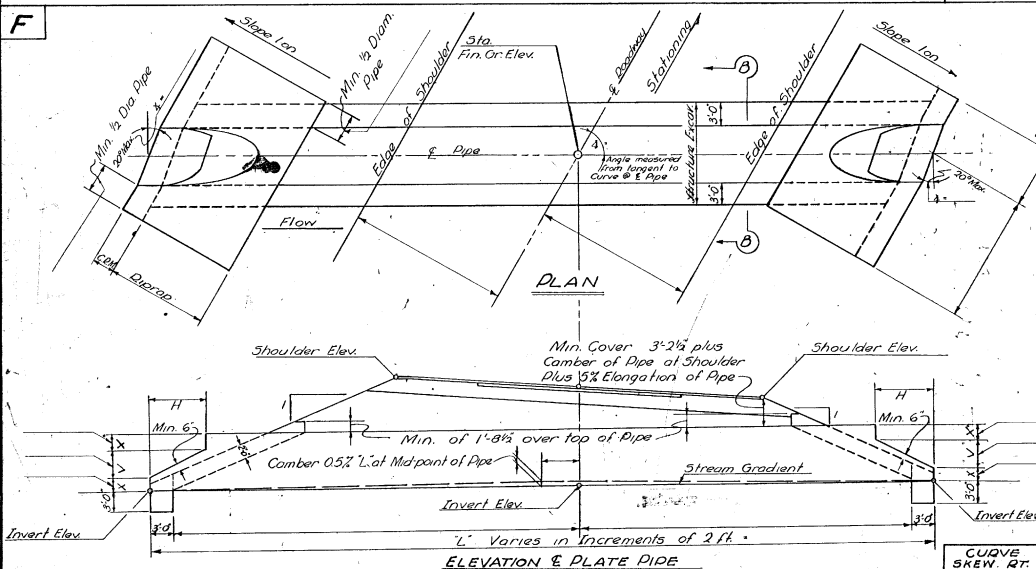
TOWN OF COLCHESTER
ROUTE NO. I-89 ^{SB} ~~100~~ STA. 2361+76.32
SURVEYED BY A. Ramick
COMPLETED BY D. B. B. CHECKED BY A. R. K.
PROJECT NO. I-89-3(19)
SHEET 32 OF 100
Contract # 2





WEIGHT & GAGE TABLE

HGT. OF FILL Diam. Inches	1-5		6-10		11-15		16-20		21-25		26-30		31-35		36-40		41-45		46-50		51-55		56-60		61-70		71-80	
	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.	Area Sq. Ft.	Vol. Cu. Yd.
60	20	12	10	118	12	10	118	12	10	118	12	10	118	12	10	118	12	10	118	12	10	118	12	10	118	12	10	118
66	24	12	10	128	12	10	128	12	10	128	12	10	128	12	10	128	12	10	128	12	10	128	12	10	128	12	10	128
72	28	12	10	140	12	10	140	12	10	140	12	10	140	12	10	140	12	10	140	12	10	140	12	10	140	12	10	140
78	33	12	10	149	12	10	149	12	10	149	12	10	149	12	10	149	12	10	149	12	10	149	12	10	149	12	10	149
84	38	10	8	197	12	10	158	10	8	197	10	8	197	10	8	197	10	8	197	10	8	197	10	8	197	10	8	197
90	44	10	8	215	12	10	173	10	8	215	10	8	215	10	8	215	10	8	215	10	8	215	10	8	215	10	8	215
96	50	10	8	228	10	8	228	10	8	228	10	8	228	10	8	228	10	8	228	10	8	228	10	8	228	10	8	228
102	57	10	8	242	10	8	242	10	8	242	10	8	242	10	8	242	10	8	242	10	8	242	10	8	242	10	8	242
108	64	10	8	252	10	8	252	10	8	252	10	8	252	10	8	252	10	8	252	10	8	252	10	8	252	10	8	252
114	71	10	8	266	10	8	266	10	8	266	10	8	266	10	8	266	10	8	266	10	8	266	10	8	266	10	8	266
120	78	8	7	327	10	8	276	8	7	327	10	8	276	8	7	327	10	8	276	8	7	327	10	8	276	8	7	327
126	87	8	7	343	10	8	290	8	7	343	10	8	290	8	7	343	10	8	290	8	7	343	10	8	290	8	7	343
132	95	8	7	375	10	8	325	8	7	375	10	8	325	8	7	375	10	8	325	8	7	375	10	8	325	8	7	375
138	104	8	7	390	10	8	338	8	7	390	10	8	338	8	7	390	10	8	338	8	7	390	10	8	338	8	7	390
144	113	8	7	404	8	7	404	8	7	404	8	7	404	8	7	404	8	7	404	8	7	404	8	7	404	8	7	404
150	123	7	5	467	8	7	420	7	5	467	8	7	420	7	5	467	8	7	420	7	5	467	8	7	420	7	5	467
156	133	7	5	486	8	7	436	7	5	486	8	7	436	7	5	486	8	7	436	7	5	486	8	7	436	7	5	486
162	143	7	5	502	8	7	450	7	5	502	8	7	450	7	5	502	8	7	450	7	5	502	8	7	450	7	5	502
168	154	5	3	594	8	7	464	5	3	594	8	7	464	5	3	594	8	7	464	5	3	594	8	7	464	5	3	594
174	165	5	3	617	7	5	536	5	3	617	7	5	536	5	3	617	7	5	536	5	3	617	7	5	536	5	3	617
180	177	5	3	641	7	5	556	5	3	641	7	5	556	5	3	641	7	5	556	5	3	641	7	5	556	5	3	641



Revisions & Corrections:
Gravel Backfill Deleted May 27, 1959 LWB

Drawn by: G.F.H. Dec. 1939
Traced by: H.W.S. Mar. 1939
Checked by: Q.T.B. Apr. 1939

CORRECT
APPROVED
CHIEF ENGINEER

DETAILS OF ROUND PLATE PIPE

Sheet 2 of 2 for details 'E' & 'F' Sheet 2 of 2
Sheet 1 of 2 for details A, B, C, & D.
USE DETAIL A FOR THIS PIPE
Use Section 'BB', Detail 'E', for all pipes.
DIA. OF PIPE = 84"
O.A. LENGTH = 182'-0"
TOTAL WEIGHT = 35,254 Lbs.
GAGE TOP R₁₀ TO GAGE BOT. R₁₀ CAMBER = 11"

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SB-PP #2

TOWN OF COLCHESTER
ROUTE NO. 1-89 TO STA. 2351+76.51
SURVEYED BY A. Remick
COMPLETED BY D.E.B. CHECKED BY A.E.K.
PROJECT NO. 1-89-3(19)
SHEET 23 OF 26

This Structure shall be laid out
from the C of Southbound Lane

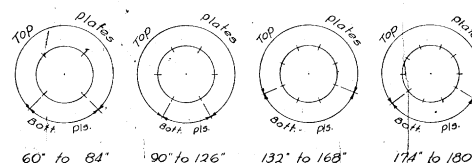
NOTES

REINFORCING STEEL SCHEDULE

No.	Size	Length	Mark	Type
1	#6	14'-0"	A-3	Straight
2	#6	14'-0"	A-4	do.

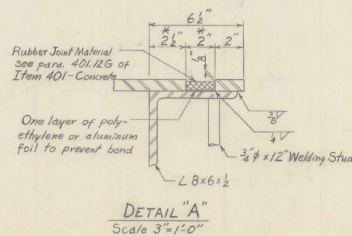
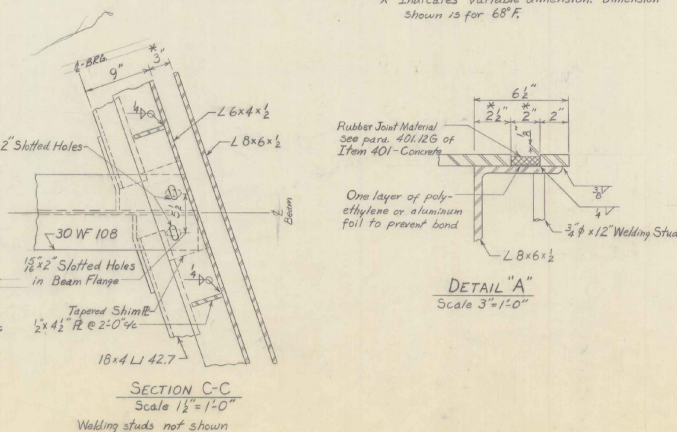
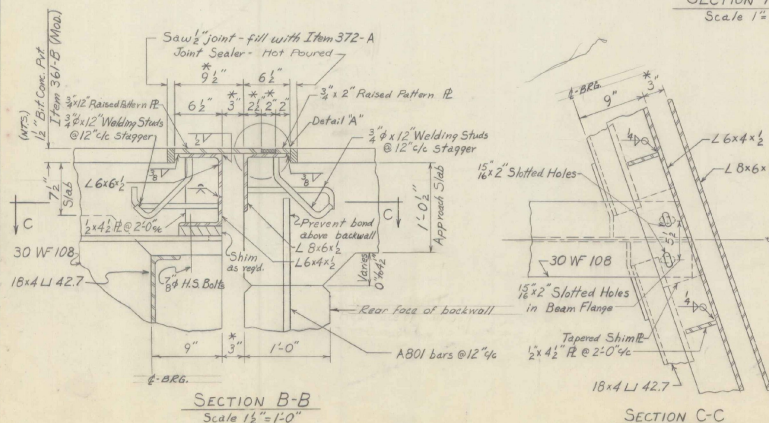
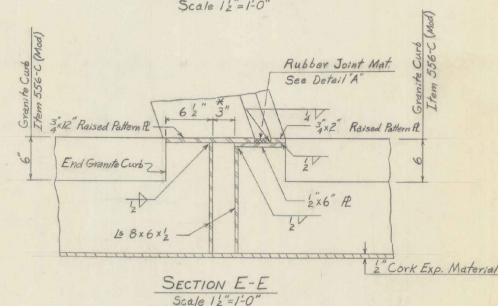
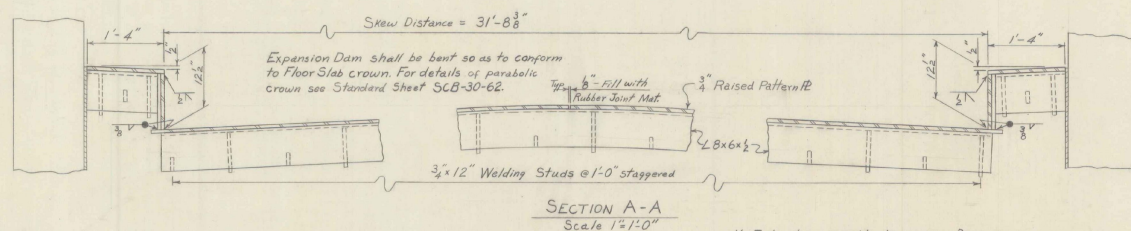
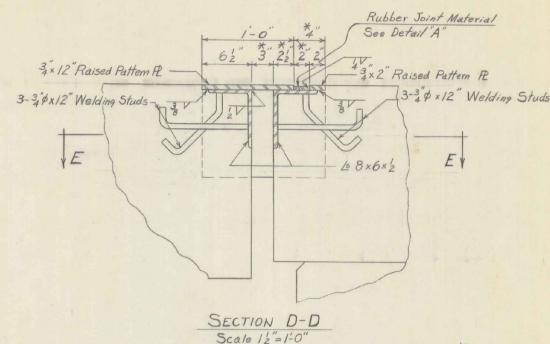
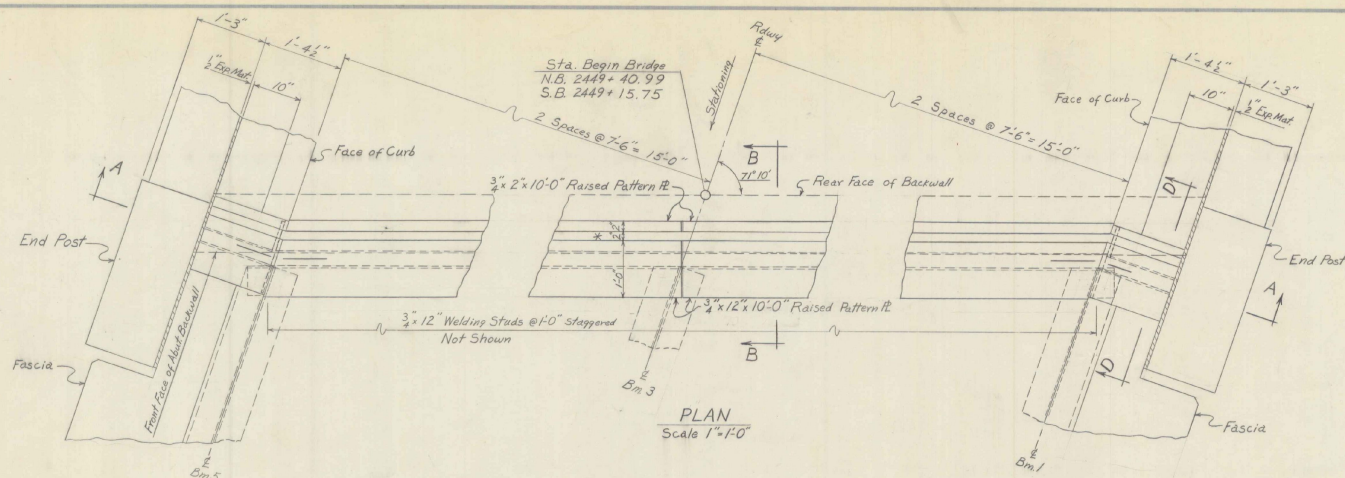
Reinforcing Bars detailed above are to be
placed in and walls as shown in 'Typical
End at C of Pipe' and shown on sheet
SB-PP #2 for other pipe (243'-0" Long)
constructed in line with this pipe.

PLATE ARRANGEMENTS



ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	NET	ORIGIN	TOTAL	FINAL
106-A	Channel Excav of Earth	C.Y.	10			
106-B	Channel Excav of Rock	C.Y.	10			
107	Structure Excavation	C.Y.	194			
222	Gravel Backfill	C.Y.	175			
401-B	Concrete Class 2 (Med)	C.Y.	14			
402	Reinforcing Steel	LBS	120			
424-A	Gravel (30, 90, 180)	LBS	1			
526	Elprop for Bank Material	C.Y.	37			



* Indicates variable dimension. Dimension shown is for 68°F.

NOTES

1. All of the angles in the expansion dam assembly shall be wrought iron, conforming to para. 404.02 H of Item 404-A, Structural Steel.
 2. Furnish sufficient shims to adjust assembly to finished grade elevation. Allow for tapered shims arising through the use of parabolic crown.
 3. The front face of the abutment's buttress wall shall be coated as follows: Apply two (2) coats of a 50/50 mixture of boiled linseed oil and petroleum spirits @ the rate of fifty (50) sq. yds. per gallon. Apply a third and final coat of straight boiled linseed oil at the rate of seventy (70) sq. yds. per gallon. Allow each coat to dry before making the subsequent application.
Cost of conforming to this note shall be included in the unit price bid for Concrete, Item 401-B.
 4. Make field welds after final alignment is determined.
- STAGE II CONSTRUCTION**

STAGE II CONSTRUCTION
BR. 11 OF 31

① - ARSNO Designation M126-60 (ASTM Designation D-230-55)

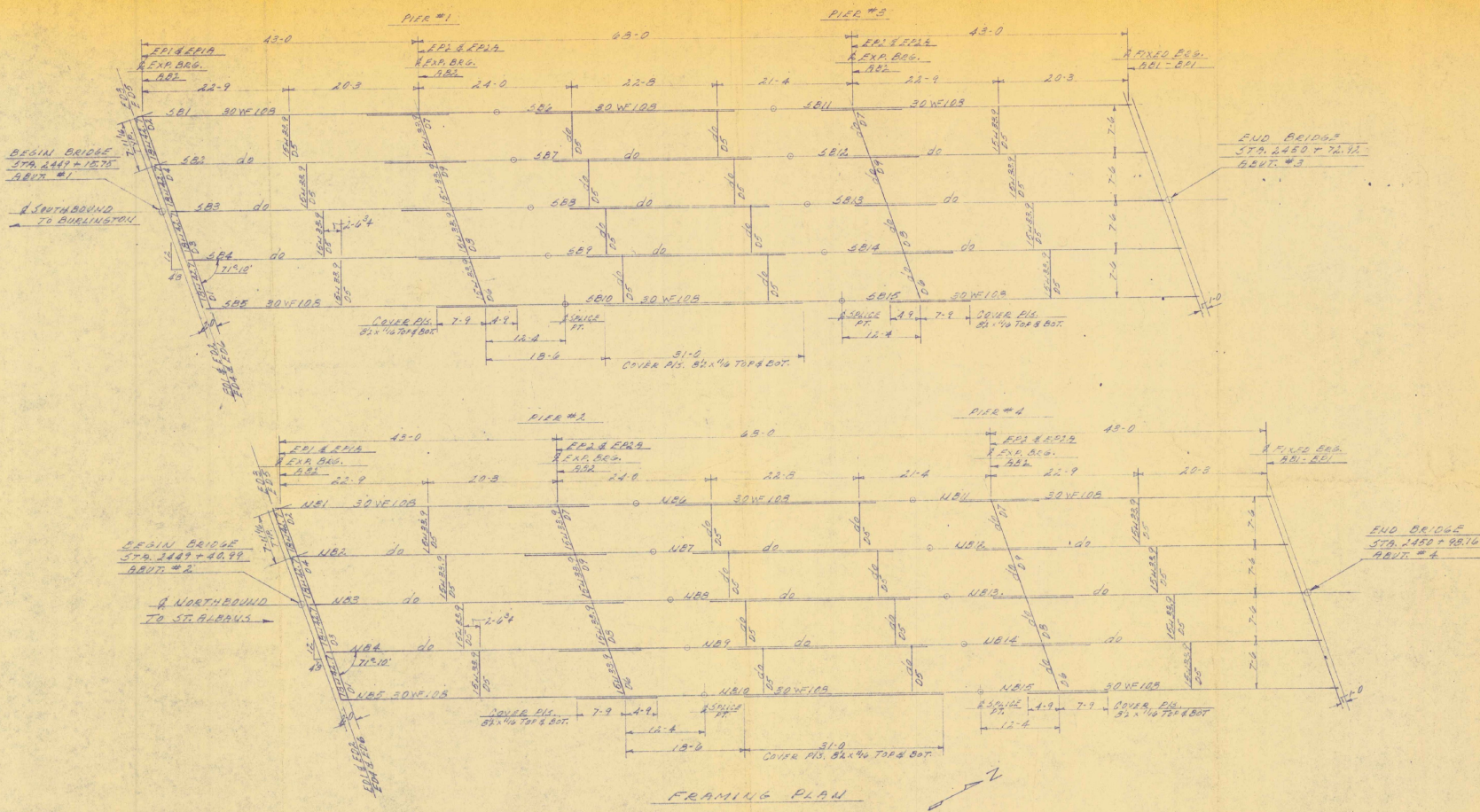
② - ARSNO Designation M126-60 (ASTM Designation D-235-59)

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.				
402	REINF. STEEL	LBS				
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

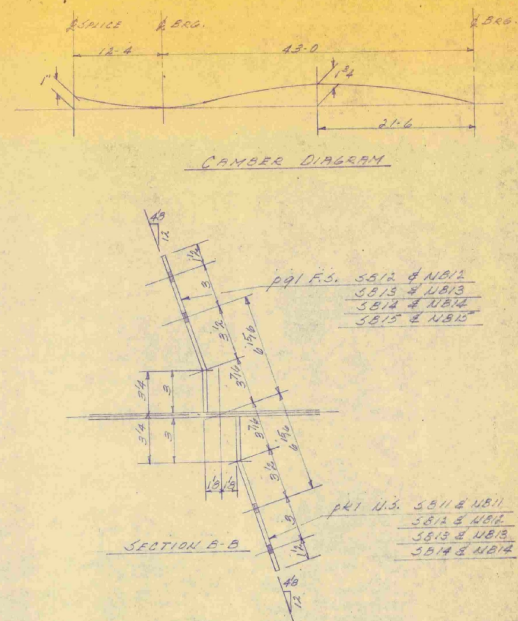
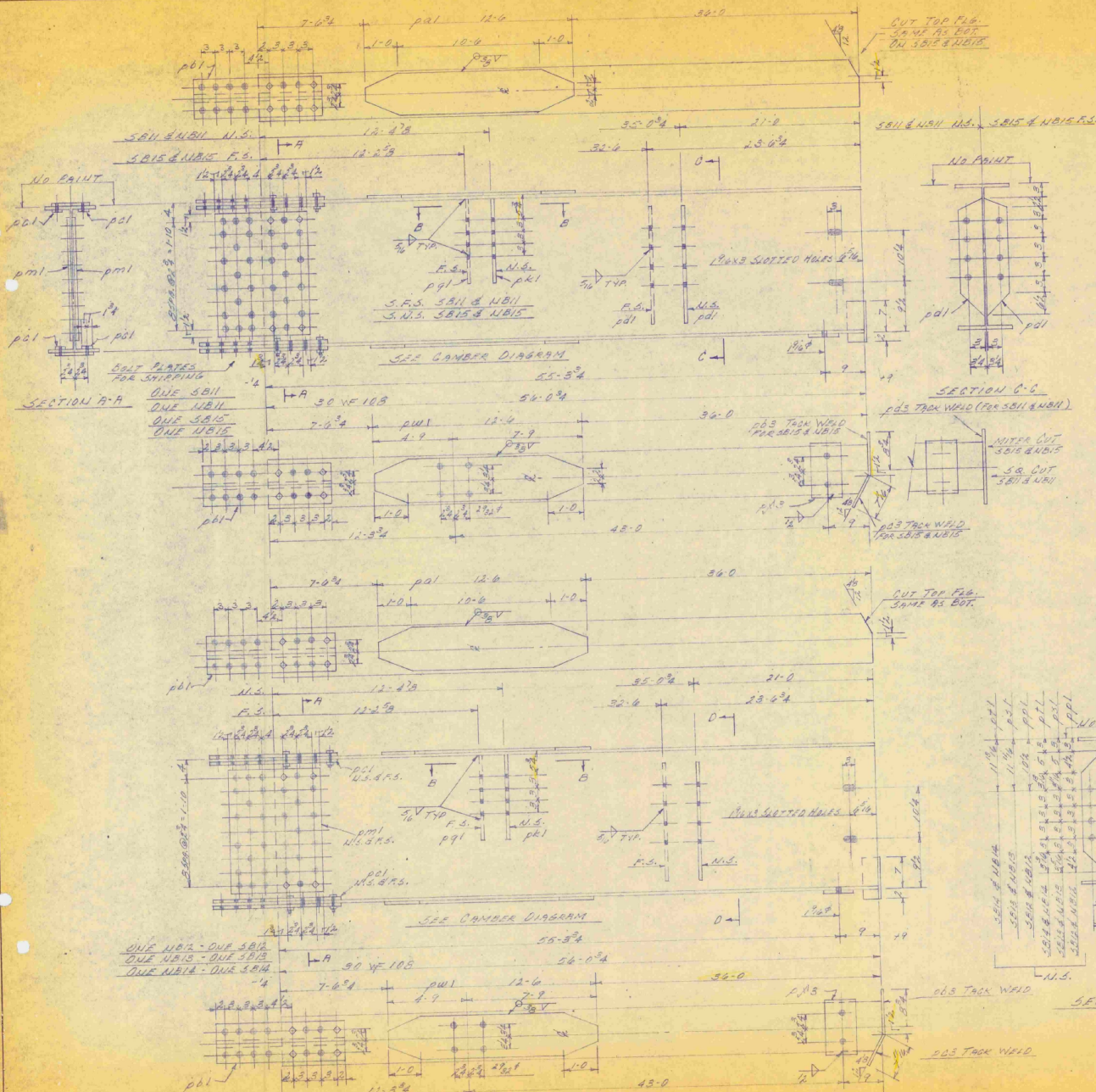
TOWN OF COLCHESTER
ROUTE NO. 189 ~~100~~ STA.
EXPANSION DAMS
INT. 89 OVER VT. RTE. 127

SURVEYED BY Bruee
DRAWN BY RLM CHECKED BY RND
11-20-62
PROJECT NO. I 89-3(29) Contr. 1
SHEET 85 OF 265



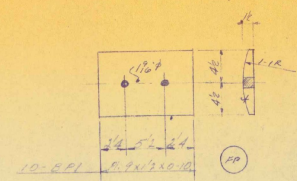
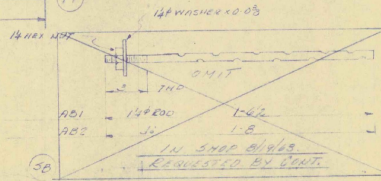
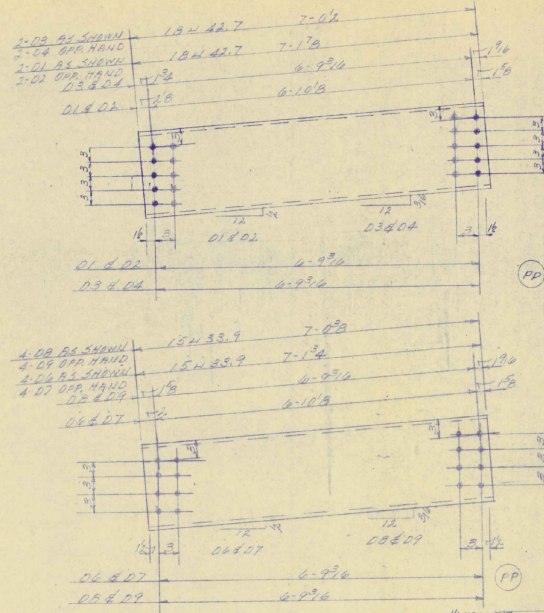
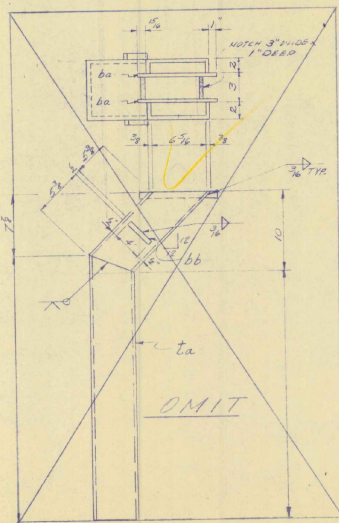
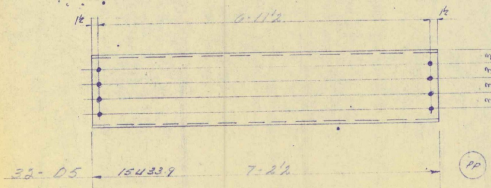
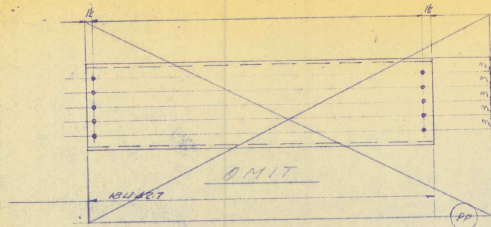
CHG by NBT
9/10/68
APP. 9/10/68
JH

REV. PER APP. 9/10/68		VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT. 05401		CONT. #2	
DRAWN BY: J. T. BAKER		PROJECT: Jct. 289 OVER VT. 117		NO. FOR DATE	
CHKD BY: J. T. BAKER		LOCATION: LACHTER, VERMONT		1. 5/20/68	
CUST: LANE CONST. CO.		ARCHITECT: ST. ALBANS ENGINEERS		2. 6/10/68	
JOB NO. 88-081		SHEET NO. 21		3. 6/10/68	
DATE: 9/10/68				4. 9/10/68	



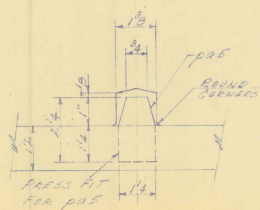
CH 8 by NET
7/15/63

NO.	QTY	DESCRIPTION	LENGTH FT. IN.	WEIGHT
1	1	SB12	54.00	
2	1	SB12	54.00	
3	1	SB12	54.00	
4	1	SB12	54.00	
5	1	SB12	54.00	
6	1	SB12	54.00	
7	1	SB12	54.00	
8	1	SB12	54.00	
9	1	SB12	54.00	
10	1	SB12	54.00	
11	1	SB12	54.00	
12	1	SB12	54.00	
13	1	SB12	54.00	
14	1	SB12	54.00	
15	1	SB12	54.00	
16	1	SB12	54.00	
17	1	SB12	54.00	
18	1	SB12	54.00	
19	1	SB12	54.00	
20	1	SB12	54.00	
21	1	SB12	54.00	
22	1	SB12	54.00	
23	1	SB12	54.00	
24	1	SB12	54.00	
25	1	SB12	54.00	
26	1	SB12	54.00	
27	1	SB12	54.00	
28	1	SB12	54.00	
29	1	SB12	54.00	
30	1	SB12	54.00	
31	1	SB12	54.00	
32	1	SB12	54.00	
33	1	SB12	54.00	
34	1	SB12	54.00	
35	1	SB12	54.00	
36	1	SB12	54.00	
37	1	SB12	54.00	
38	1	SB12	54.00	
39	1	SB12	54.00	
40	1	SB12	54.00	
41	1	SB12	54.00	
42	1	SB12	54.00	
43	1	SB12	54.00	
44	1	SB12	54.00	
45	1	SB12	54.00	
46	1	SB12	54.00	
47	1	SB12	54.00	
48	1	SB12	54.00	
49	1	SB12	54.00	
50	1	SB12	54.00	
51	1	SB12	54.00	
52	1	SB12	54.00	
53	1	SB12	54.00	
54	1	SB12	54.00	
55	1	SB12	54.00	
56	1	SB12	54.00	
57	1	SB12	54.00	
58	1	SB12	54.00	
59	1	SB12	54.00	
60	1	SB12	54.00	
61	1	SB12	54.00	
62	1	SB12	54.00	
63	1	SB12	54.00	
64	1	SB12	54.00	
65	1	SB12	54.00	
66	1	SB12	54.00	
67	1	SB12	54.00	
68	1	SB12	54.00	
69	1	SB12	54.00	
70	1	SB12	54.00	
71	1	SB12	54.00	
72	1	SB12	54.00	
73	1	SB12	54.00	
74	1	SB12	54.00	
75	1	SB12	54.00	
76	1	SB12	54.00	
77	1	SB12	54.00	
78	1	SB12	54.00	
79	1	SB12	54.00	
80	1	SB12	54.00	
81	1	SB12	54.00	
82	1	SB12	54.00	
83	1	SB12	54.00	
84	1	SB12	54.00	
85	1	SB12	54.00	
86	1	SB12	54.00	
87	1	SB12	54.00	
88	1	SB12	54.00	
89	1	SB12	54.00	
90	1	SB12	54.00	
91	1	SB12	54.00	
92	1	SB12	54.00	
93	1	SB12	54.00	
94	1	SB12	54.00	
95	1	SB12	54.00	
96	1	SB12	54.00	
97	1	SB12	54.00	
98	1	SB12	54.00	
99	1	SB12	54.00	
100	1	SB12	54.00	

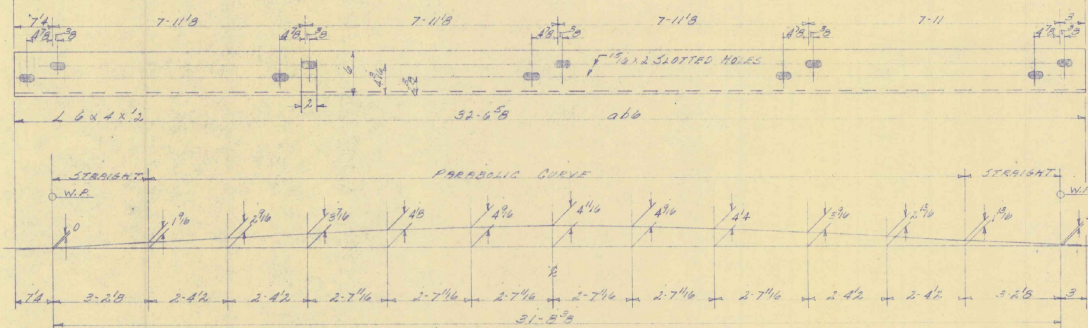
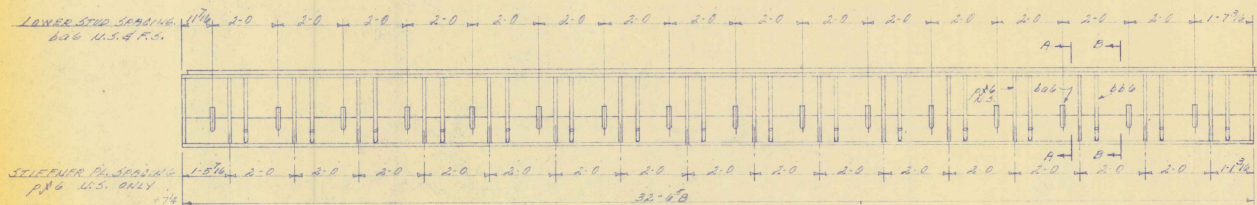
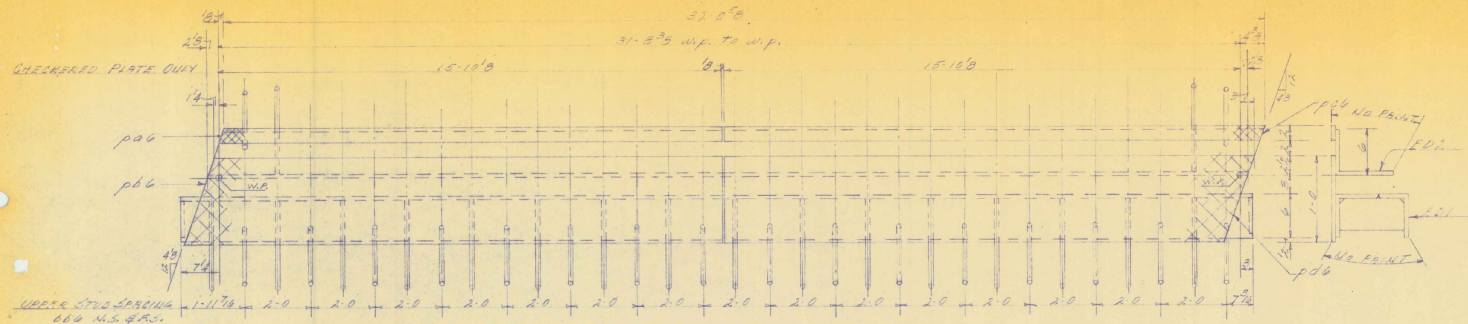


CLD BY NET
2/15/68

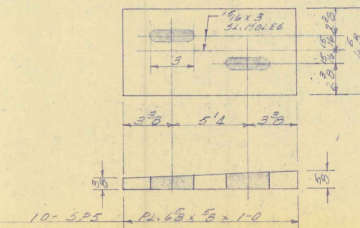
BILL OF MATERIAL						
NO.	PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
				FT.	IN.	
<u>DIPPERHEADS</u> (PP)						
1	1	D1	12 H 4 1/2	7	1 1/2	
2	2	D2	do	7	1 1/2	255.6 LB
3	3	D3	do	7	1 1/2	
4	4	D4	14 H 4 1/2	7	1 1/2	
5	5	D5	15 H 3 3/4	7	2 1/2	
6	6	D6	do	7	1 1/2	
7	7	D7	do	7	1 1/2	Res @ 1750
8	8	D8	do	7	1 1/2	
9	9	D9	15 H 3 3/4	7	2 1/2	
COUNT 522 1/4						
<u>BRIDGE PILES</u> (PP)						
10	10	B1	21' 9 x 14	0	10	500
<u>FIELD MATERIAL</u> (A)						
11	11	F1	24 H 4 1/2 BENTS	0	24	
12	12	F2	24 H 4 1/2 BENTS	0	24	
13	13	F3	24 H 4 1/2 BENTS	0	24	
14	14	F4	do	0	24	
REMARKS: 7/17/45						
VERMONT STRUCTURAL STEEL CORPORATION						
BURLINGTON, VT.						
REV. PER 900 11/6/45 KAT. T. 24. 510. 1/2001 #3						
DATE	PROJECT					PRINT RECORD
11/17/45	LUT. 27' NVA ST RYS 12)					
CITY	LOCATION					NO.
	CLOCKCHESTER, VERMONT					FOR
	CUSTOMER					DATE
	LANE CONST CO.					
HOUSE	ARCHITECT					
11/17/45	ST. 20' 47' 1/2'					



VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT. TEL 248-2101 CONT. 5			
DATE		PROJECT	
DRAWING BY		LOCATION	
CITY BY		CUSTOMER	
HOURS		ARCHITECT	
EFFECTS		JOB NO.	
PAID BY		SHEET NO.	

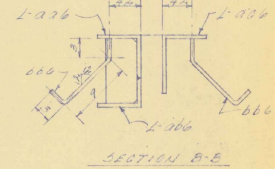
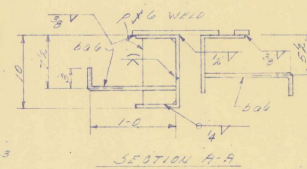


CAMBER DIAGRAM



2" FUD DAM F01
2" FUD DAM F02

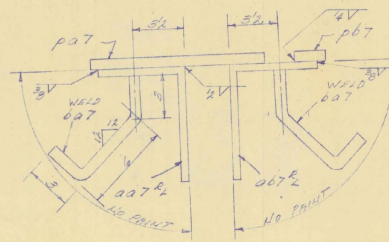
10-3 1/2	PL 60 x 3/8 x 1-0
10-3 1/2	PL 60 x 3/8 x 1-0
10-3 1/2	PL 60 x 3/8 x 1-0
20-3 1/2	PL 60 x 3/8 x 1-0



BILL OF MATERIAL					
NO.	QTY	DESCRIPTION	UNIT	WEIGHT	
2" FUD DAM F01					
1	200	PL 60 x 3/8	32'-0"	1000	
2	200	PL 60 x 3/8	32'-0"	1000	
3	200	PL 60 x 3/8	32'-0"	1000	
4	200	PL 60 x 3/8	32'-0"	1000	
5	200	PL 60 x 3/8	32'-0"	1000	
6	200	PL 60 x 3/8	32'-0"	1000	
7	200	PL 60 x 3/8	32'-0"	1000	
8	200	PL 60 x 3/8	32'-0"	1000	
9	200	PL 60 x 3/8	32'-0"	1000	
10	200	PL 60 x 3/8	32'-0"	1000	
2" FUD DAM F02					
1	200	PL 60 x 3/8	32'-0"	1000	
2	200	PL 60 x 3/8	32'-0"	1000	
3	200	PL 60 x 3/8	32'-0"	1000	
4	200	PL 60 x 3/8	32'-0"	1000	
5	200	PL 60 x 3/8	32'-0"	1000	
6	200	PL 60 x 3/8	32'-0"	1000	
7	200	PL 60 x 3/8	32'-0"	1000	
8	200	PL 60 x 3/8	32'-0"	1000	
9	200	PL 60 x 3/8	32'-0"	1000	
10	200	PL 60 x 3/8	32'-0"	1000	
LARGE SHIP F01					
1	200	PL 60 x 3/8	32'-0"	1000	
2	200	PL 60 x 3/8	32'-0"	1000	
3	200	PL 60 x 3/8	32'-0"	1000	
4	200	PL 60 x 3/8	32'-0"	1000	
5	200	PL 60 x 3/8	32'-0"	1000	
6	200	PL 60 x 3/8	32'-0"	1000	
7	200	PL 60 x 3/8	32'-0"	1000	
8	200	PL 60 x 3/8	32'-0"	1000	
9	200	PL 60 x 3/8	32'-0"	1000	
10	200	PL 60 x 3/8	32'-0"	1000	
FIELD MATERIAL					
1	200	PL 60 x 3/8	32'-0"	1000	
2	200	PL 60 x 3/8	32'-0"	1000	
3	200	PL 60 x 3/8	32'-0"	1000	
4	200	PL 60 x 3/8	32'-0"	1000	
5	200	PL 60 x 3/8	32'-0"	1000	
6	200	PL 60 x 3/8	32'-0"	1000	
7	200	PL 60 x 3/8	32'-0"	1000	
8	200	PL 60 x 3/8	32'-0"	1000	
9	200	PL 60 x 3/8	32'-0"	1000	
10	200	PL 60 x 3/8	32'-0"	1000	
VERMONT STRUCTURAL STEEL CORPORATION					
BURLINGTON, VT.					
REV. DEC 1944					
PROJECT INT. BRIDGE VI. 100					
LOCATION CONSTRUCTION, VERMONT					
CUSTOMER RAILROAD CO.					
ARCHITECT S. T. BARNETT, BURLINGTON					
JOB NO. 25-201					
SHEET NO. 6					

CH'd by NBT
3/12/53

STANDARD
3/12/53



2- END DAM F03 AS SHOWN
2- END DAM F04 OPP. HAND
2- END DAM F05 AS SHOWN
2- END DAM F06 OPP. HAND

NO.	PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
				FT.	IN.	
			2 END DAM FOS			
			2 END DAM FOS			
4	207 1/2		2 X 3 X 1/2	1	3 1/2	32 1/2 X 3 1/2
4	107		2 X 1 1/2 X 1/2	1	4	60 X 10 20
4	107		1/2	0	1 1/2	60 X 1 1/2
3	107		3/4 X RAO	1	0	60 X 3/4
4	107		1/2	1	0	60 X 1/2
			2 END DAM FOS			
			2 END DAM FOS			
4	207 1/2		2 X 3 X 1/2	1	3 1/2	60 X 3 1/2
4	107		2 X 1 1/2 X 1/2	1	4	60 X 10 20
4	107		1/2	0	1 1/2	60 X 1 1/2
3	107		3/4 X RAO	1	0	60 X 3/4
4	107		1/2	1	0	60 X 1/2
4	107		2 X 1 1/2 X 1/2	1	4	60 X 10 20
			PAINT 200 LBS			
			4 X WELD	10	0	
			30 X WELD	10	0	
			4 X WELD	5	0	

770115/140
 11/14/14
 11/14/14

VERMONT STRUCTURAL STEEL CORPORATION
 BURLINGTON, VT.

2 END DAM FOS 4000 LBS
 2 END DAM FOS 4000 LBS

PROJECT 215.87 OVER V.C.F. 110
 LOCATION COLCHESTER, VERMONT
 CUSTOMER LONG RIVER CO.

770115/140
 11/14/14
 11/14/14

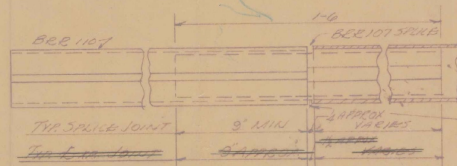
DATE	PROJECT	LOCATION	CUSTOMER	NO.	ROW	DATE
11/14/14	215.87 OVER V.C.F. 110	COLCHESTER, VERMONT	LONG RIVER CO.	NO.	ROW	DATE
11/14/14				90	11/14/14	11/14/14

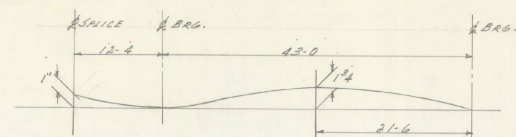
HOOKS
 EYELETS
 PAINT 200 LBS

ARCHITECT W.T. DE VRIES, 600 N. BURLINGTON ST.
 JOB NO. 215.87
 SHEET NO. 7

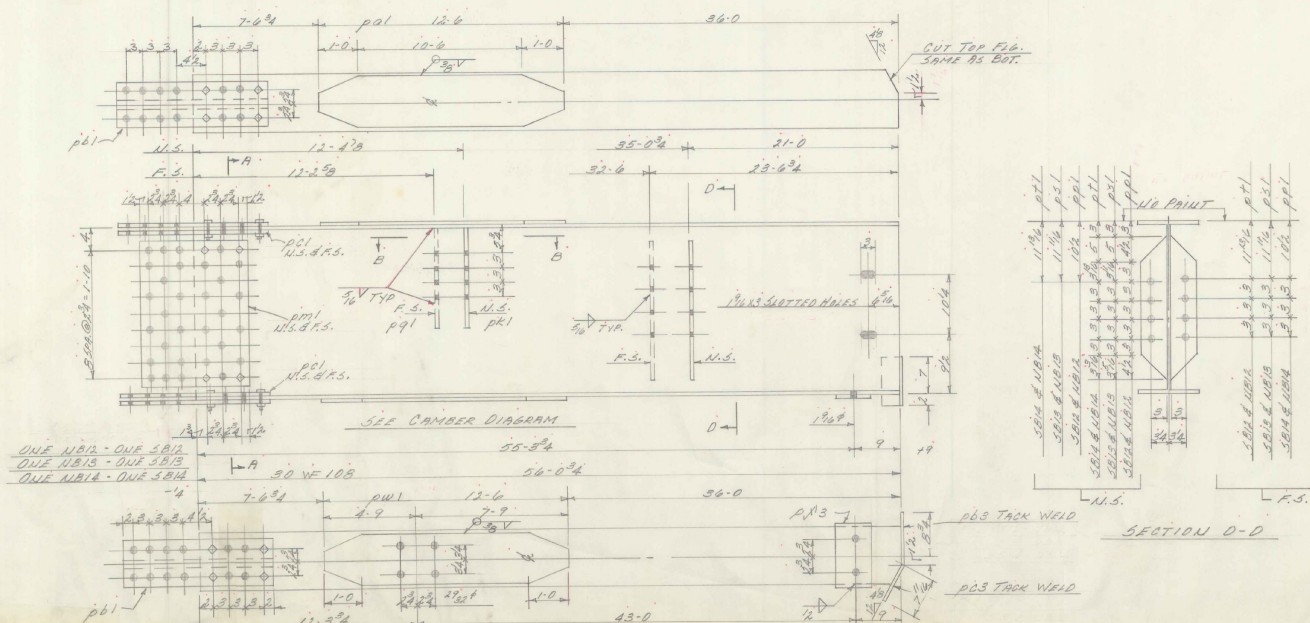
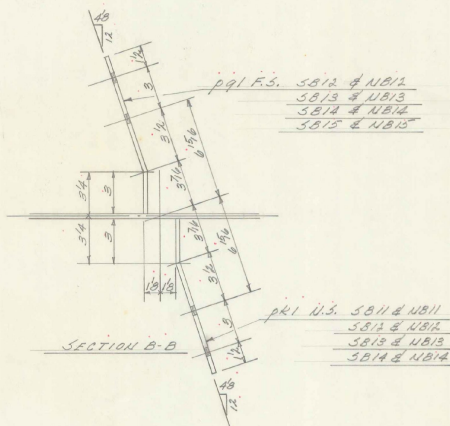


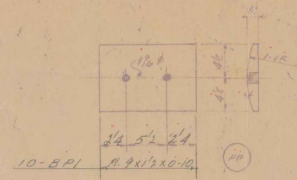
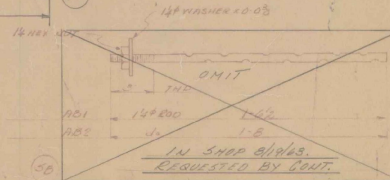
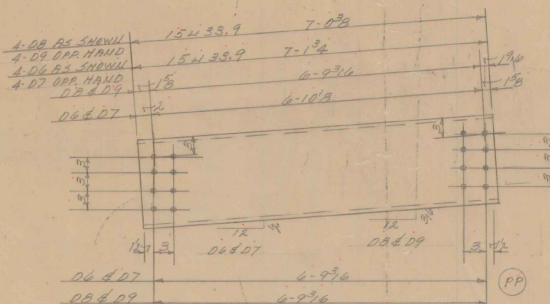
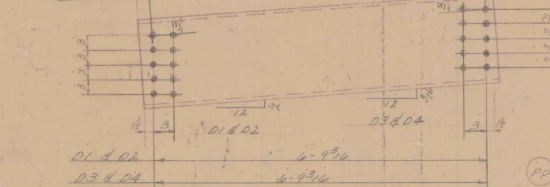
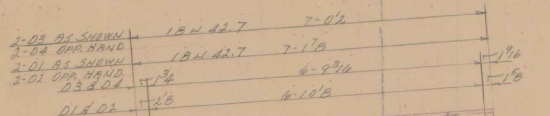
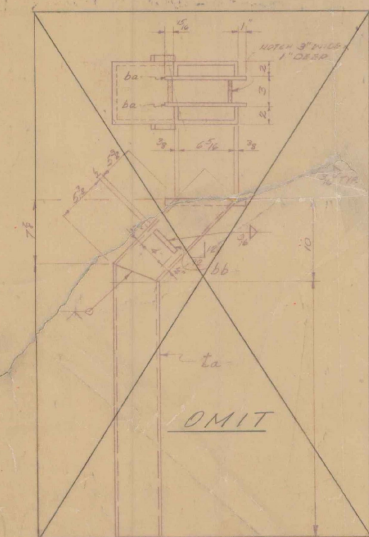
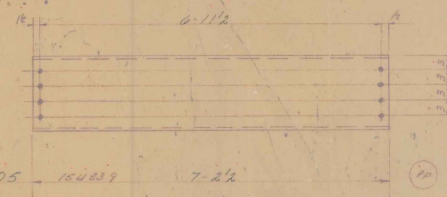
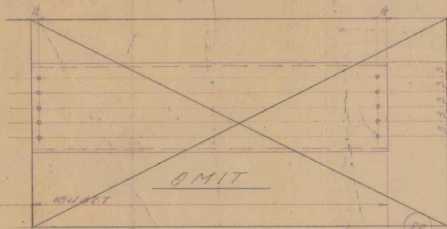
SECTION A-A

[illegible]



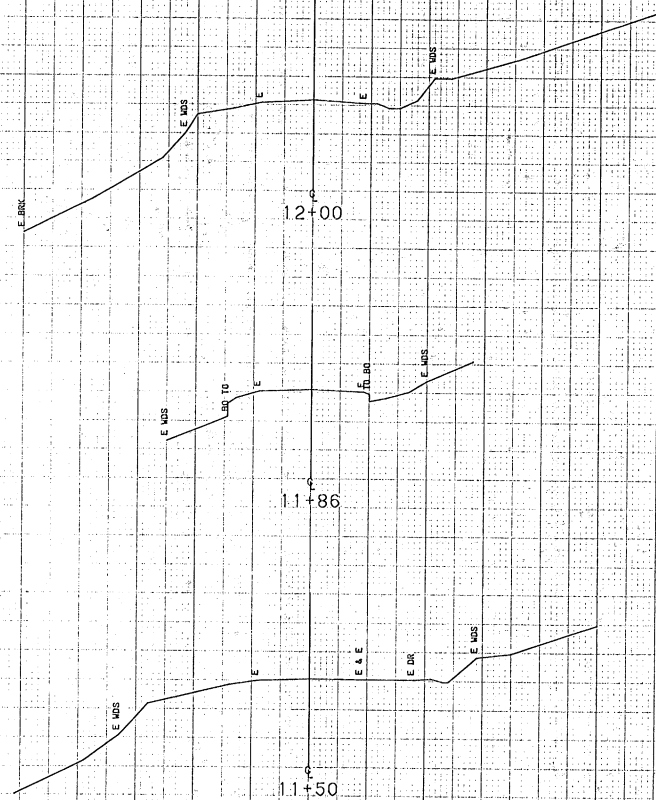
CAMBER DIAGRAM

[illegible]



ASTM-1736 BILL OF MATERIAL									
ITEM	QTY	DESCRIPTION	SIZE	UNIT	WEIGHT	REMARKS	DATE	BY	CHKD
DIAPHRAGMS									
2	D1	15H 42.7	7-1 1/2						
2	D2	do	7-1 1/2			Res. @ 1/2"			
2	D3	do	7-0 1/2						
2	D4	15H 42.7	7-0 1/2						
2	D5	15H 33.9	7-1 1/2						
4	D6	do	7-1 1/2			Res. @ 1/2"			
4	D7	do	7-1 1/2						
4	D8	do	7-1 1/2						
4	D9	15H 33.9	7-1 1/2						
BRACING PLATES									
10	BPI	PL 9 X 1/2	0 10	STK					
FIELD MATERIAL									
720		2" HOLLOW END BENTS	0 24						
1500		2" HOLLOW END BENTS	0 36						
400		2" HOLLOW END BENTS	0 36						
600		2" HOLLOW END BENTS	0 36						

VERMONT STRUCTURAL STEEL CORPORATION
 REV. PER APP. 8/1/63. K.T. 1-22-63 (2) CONT. #2
 DRAWN BY K.T. 8/1/63
 CHECKED BY K.T. 8/1/63
 APPROVED BY K.T. 8/1/63
 PROJECT LOCATION COLCHESTER, VERMONT
 CLIENT LANE CONST. CO.
 DRAWING NO. ST. ON VT. DEPT. OF HIGHWAYS
 SHEET NO. 33-651
 DATE 8/1/63
 SCALE 1/2" = 1'-0"

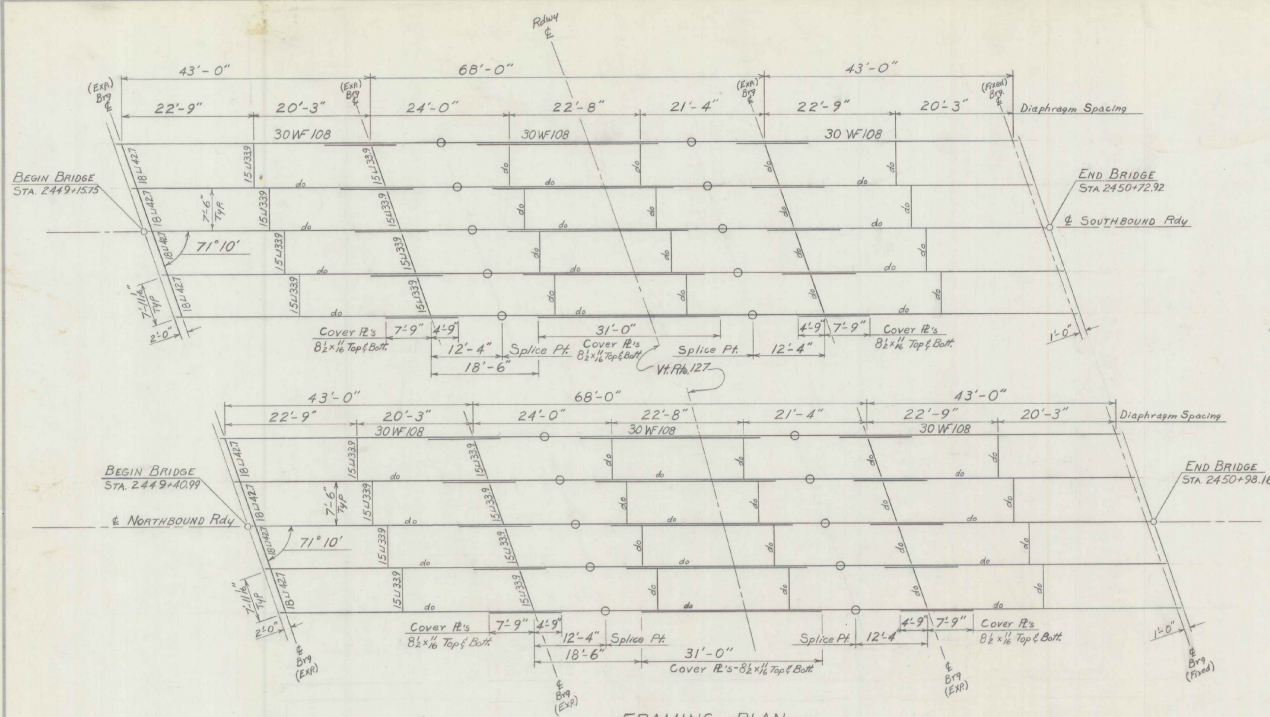


500

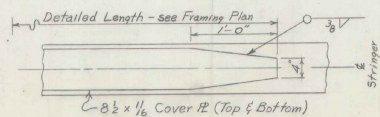
500

500

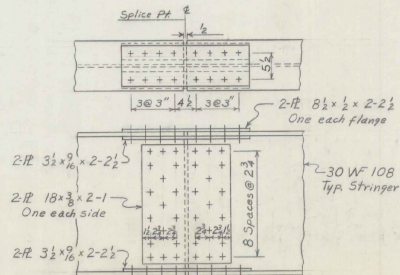
FROM STA.	11+50	TO STA.	12+00
PROJECT NAME	RUPERT RAIN		
NO.	BR21441 (22)		
SURVEYED BY	RTM	PLOTTED	04/23/91



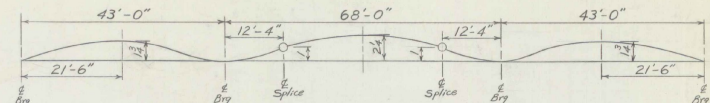
FRAMING PLAN
SCALE 1" = 10'-0"



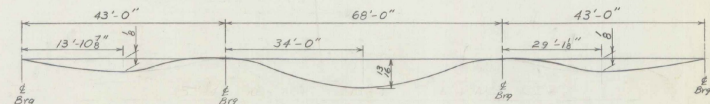
COVER PLATE DETAIL
NOT TO SCALE



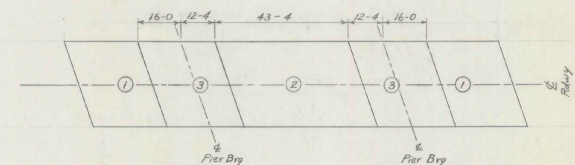
SPlice DETAIL
SCALE 1" = 1'-0"



CAMBER DIAGRAM
Not to Scale



DEAD LOAD DEFLECTION
NOT TO SCALE



SLAB POUR SEQUENCE

NOTES:

1. See Standard Sheet SCB-D8-62, Details (A) and (B), for cutoff and bearing details at the fixed end.
2. See Standard Sheet SCB-D7-62, Details (A) and (B), for details of diaphragms and diaphragm connections.
3. In lieu of the above indicated slab pour sequence the slab may be placed in one continuous pour, under the direction of the Engineer, using a retarding admixture for concrete meeting the requirements of the General Special Provisions as specified under Concrete Item 401, section 401.02, N, General.
4. If the slab is placed in one continuous pour the pour must be started at the expansion and of the bridge.
5. Camber stringers as indicated final roadway grade and haunch depth will be determined following erection of the structural steel.
6. All superstructure concrete to be class AA (Mod).
7. For slab details see Std Sheet SCB-30-62.

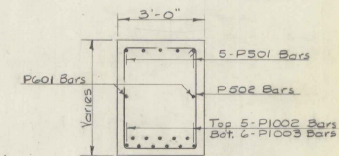
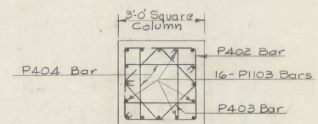
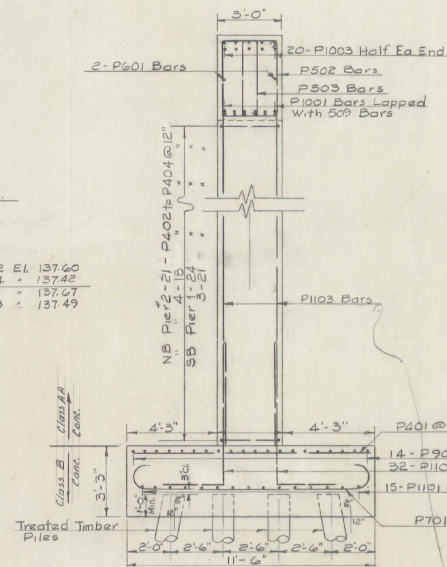
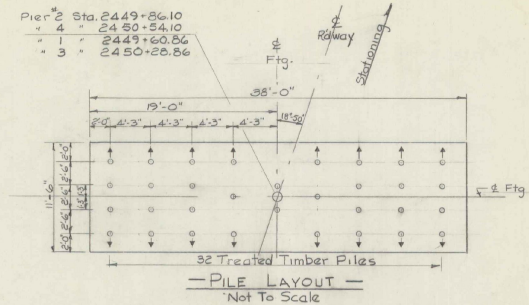
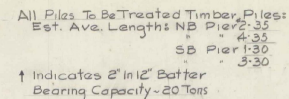
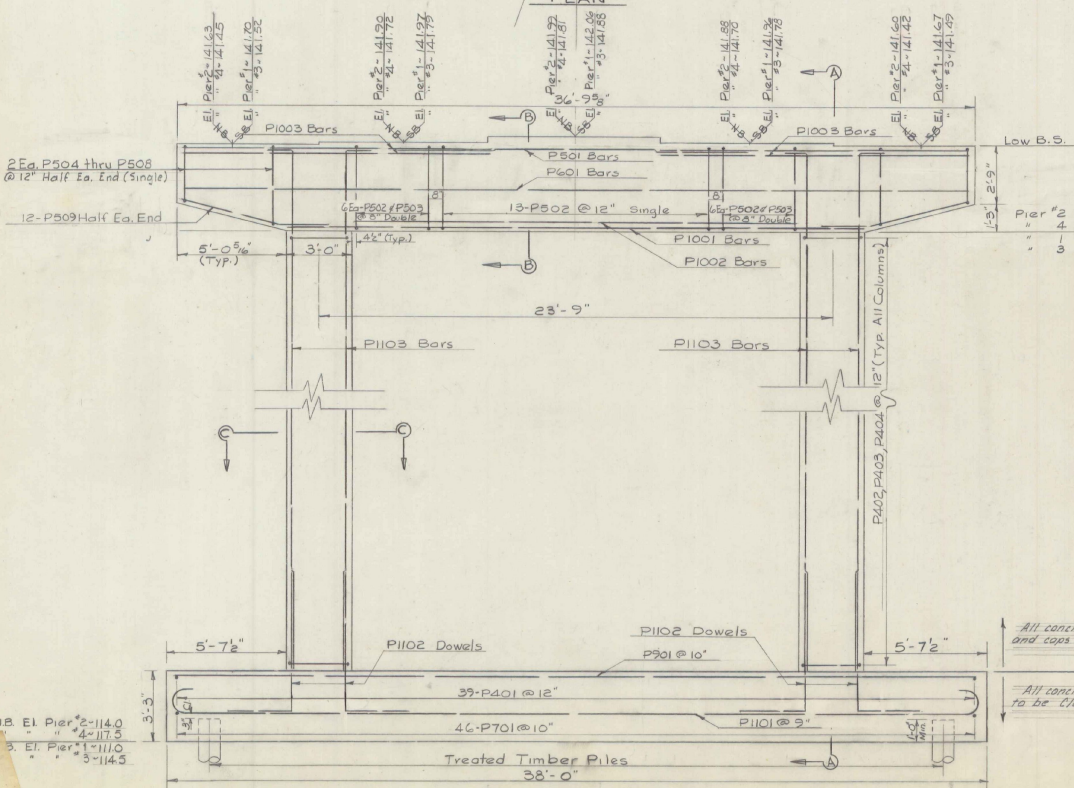
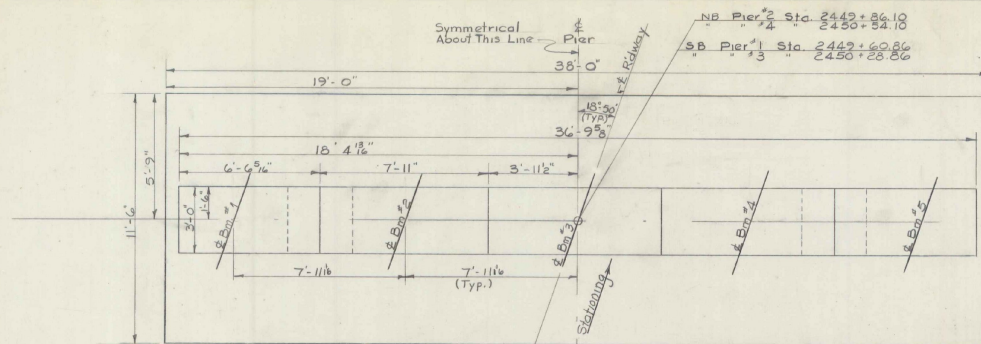
STAGE I CONSTRUCTION

BR. 6 OF 31

ITEM NO.	ITEM	UNIT	REQ	QUANTITY	TOTAL	FINAL
156-A	CHAN. EXCAV. OF EARTH	C.Y.				
156-B	CHAN. EXCAV. OF ROCK	C.Y.				
156-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALTIC-ASB. COATING	S.Y.				
503-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				
404-A	STRUCTURAL STEEL	L.B.				
(Total includes bearing devices and expansion dams.)					233,816	

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE No. I 89 LOG STA.
FRAMING PLAN
INTERSTATE OVER Vt. RTE 127
SCALE As NOTED
SURVEYED BY Bruce
DRAWN BY RLM checked by RLO 11-27-02
PROJECT No. I 89-3(19) Cont 2
SHEET 09 OF 265



SECTION A-A		PIER QUANTITIES						
ITEM NO.	ITEM	UNIT	PIER N° 2			PIER N° 3		
			1	2	4	1	2	4
			NET	FINAL	NET	FINAL	FINAL	
106-A	CHAN. EXCAV. OF EARTH	C.Y.						
106-B	CHAN. EXCAV. OF ROCK	C.Y.			43		43	
106-C	UNCLASS. CHAN. EXCAV.	C.Y.						
107	STRUCT. EXCAV.	C.Y.						
401-B	CONC. CLASS B (MOD.)	C.Y.	89-0	204	185	168	168	
402	REINF. STEEL	LBS.	58-55	55	53	53	53	
407	ASPHALTIC-ARB. COATING	S.Y.	16	12	12	12	12	
503-B	TREATED TIMBER PILING	L.F.	110-0	271	209	211	268	
503	BUDGES FOR STEEL PILING	\$A						
504	STEEL PILING	L.F.						
505-A	UNTREATED TIMBER PILING	L.F.						
401-AA	CONC. CLASS AA		89-0	204	30	21	21	

CONSTRUCTION

BR. 10 OF 31

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER

ROUTE No. I-89 ~~LOG STN~~

PIERS 1, 2, 3 & 4 INT. OVER

VERMONT RTE. 127

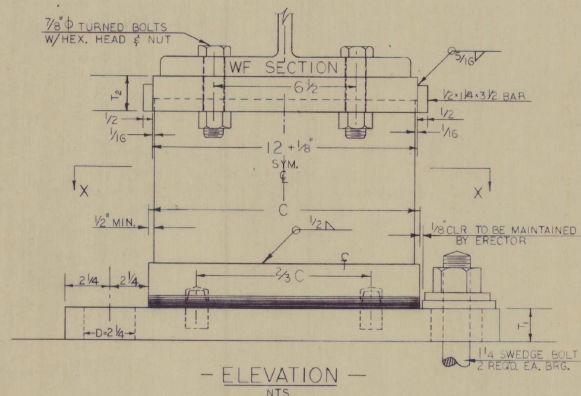
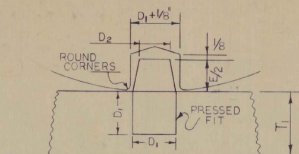
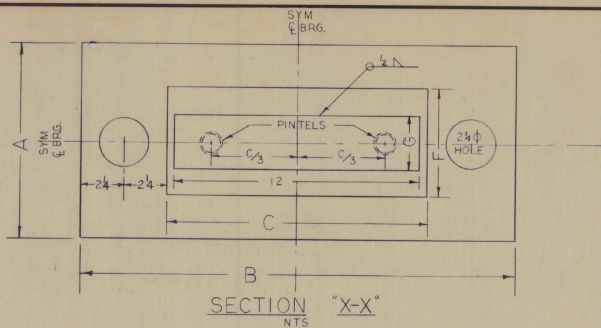
SCALE $\frac{36}{1} = 1"$ And As Noted

SURVEYED BY Bruce

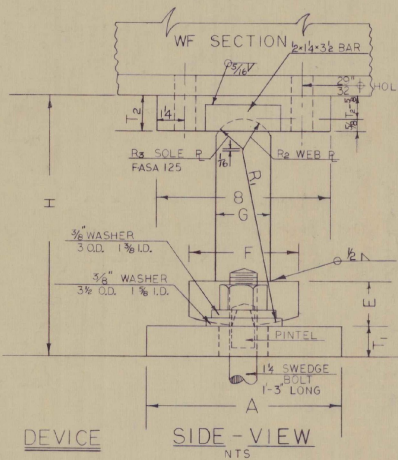
DRAWN BY NBT - CHECKED BY RLO

PROJECT No. I-89-3(19)

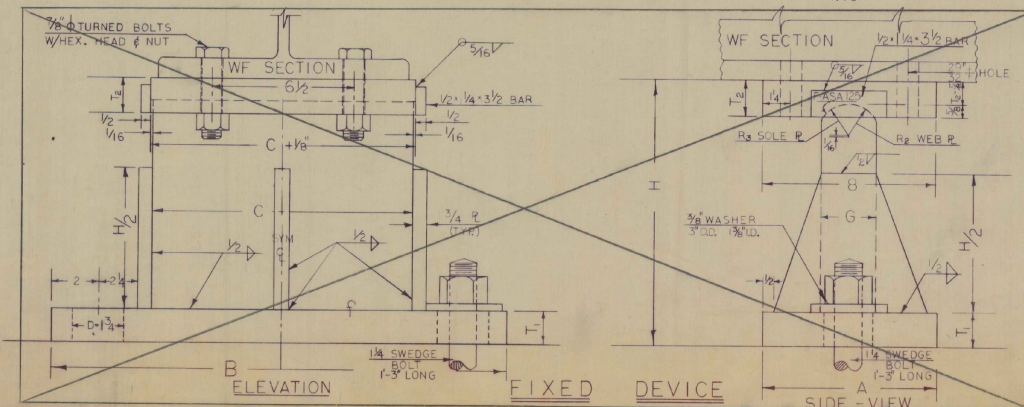
SHEET 93 OF 265 CONTR. #



EXPANSION



DEVICE



FIXED

DEVICE

SIDE-VIEW

BRG. TYPE NO.	FIX. OR EXP.	MAX. REACTION (KIPS)	MAX. TRAVEL ONE-WAY (INCHES)	DIMENSIONS (INCHES)															WGT. (LBS.)
				A	B	C	D ₁	D ₂	E	F	G	T ₁	T ₂	R ₁	R ₂	R ₃	H		
1	EXPANSION	172.8	1.15	11	31.0	22	125	0.75	2	5	2.5	2	1.5	7	1.375	14375	12.5	373	
2		85.7	1.81	11	22.0	13	150	0.75	2.5	7	2.5	1.5	1.5	7	1.375	14375	10.75	281	
3		67.1	1.50	9	22.0	13	125	0.75	2	6	2.5	1.5	1.5	7	1.375	14375	10.75	246	
4		120.0	0.875	9	24.0	15	150	0.75	2	5	2.5	1.5	1.625	6.75	1.375	14375	10.625	250	
5		158.3	0.875	10	27.0	18	150	0.75	2	5	2.5	1.5	1.5	7	1.375	14375	10.75	309	
5	FIXED	85.7	—	8	23.0	13	—	—	—	—	2.5	2	1.5	—	1.375	14375	10.75	251	

- * A. Use Brg. Type N° 5 For All Piers. 20 Reqd.
B. Use Brg. Type N° 3 For Exp. Abut. 10 " "
C. For Fixed Abut. Brgs. See SCB-D8-62 Detail "A".

BEARING NOTES

All steel other than bolts, nuts, and washers, to be ASTM A375
7/16" φ turned bolts to be ASTM A325
All bearings to be set on pads meeting AASHTO Specs. 2.10.3K or Vt. Specs. 404.02 T.
Prior to placing pads, each bearing area shall be inspected by the engineer to insure a flat and smooth masonry contact surface. Any irregularity exceeding ± 1/16" shall be corrected, and if necessary, the whole bearing area shall be ground to obtain full bearing.
Rockers are to be set to be vertical at 88° F. Allowable tolerance equals ± 1/16" in height of rocker.
Contact surfaces of rockers to be given shop coat of white lead and tallow. Pintel holes to be filled with graphite at time of placement. Remainder of bearing to be given 3 coats of paint in accordance with Vt. Specs. Sect. 404.03.
All welding to conform to current specifications for Welded Highway and Railway Bridges of the American Welding Society.

STAGE I CONSTRUCTION

BR. 12 OF 31

ITEM NO.	ITEM	UNIT	NB		SB	
			NET	FINAL	NET	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				
504-A	STRUCTURAL STEEL	LBS.	4,770		4,770	
	(Incl. Fixed End Brgs.)					

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER

ROUTE NO. I-89 LOG STA.

BRIDGE OVER RTE. 127
ROCKER BEARINGS

SCALE NTS

SURVEYED BY: Bruse
DRAWN BY: JAB CHECKED BY: EGP
COMPLETED BY: NET CHECKED BY: NY
PROJECT NO. I-89-3032
SHEET 75 OF 265 CONTR. 2

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01
INITIALS ☐
HANGER 292

*
19 63^{0/2}
64

Colchester
I-89-3 (1-9) C/2

19 63
64