

43 A-61 (DRILLING AND BLASTING OF SLOD ROCK)
44 B-1 (BANKING TALLS)
45 B-5 (TYPICAL SLOPE GRAINIS)
46 B-6 (MUCK EXCAVATION)
47 B-15 (ENTRANCE AND EXIT TERMINALS)
48 BLANK
49 B-17 (GUARD RAIL IN MEDIAN)
50 BLANK
51 D-2 (CRM. & ACCSS UNDERDRAIN)
52 D-3 (GUTTERS-JUTE MATTING)
53 D-4 (FLUSHING BASINS (METAL END SECTIONS))
54 D-6 (RC DRUP INLETS)
55 D-10 (DROP INLET TUBES)
56 D-11 (GRATES AND COVERS)
57 D-13 (CONC CATCH BASINS)
58 D-14 (METAL FLUME AND RISERS)
59 D-16 (PC RC CURB D-1)
60 E-1 (BARICADES, SIGNS AND LIGHTS)
61 E-2 (CONSTRUCTIVE IDENTIFICATION SIGNS)
62 F-1 (PROPERTY LINE FENCE)
63 F-2 (TWO CABLE GUARD RAIL)
64 G-26 (DEAD END ANCHORAGE FOR TWO CAR
65 G-4 (MARKER POSTS)
66 J-1 (PROJECT MARKERS)
67 J-4 (FIELD OFFICE)
68 J-5 (MARKERS FOR TRUCKS AND TRAILERS)
69 B-13 BRIDGE SIGNS, TOWN ROAD # 23 OVER STA. 23254

III-A, 125-A, 126-A, 128-A, 146-A & B EXTRA CROSS SECTIONS
10 STEEL PRINTS SHEETS

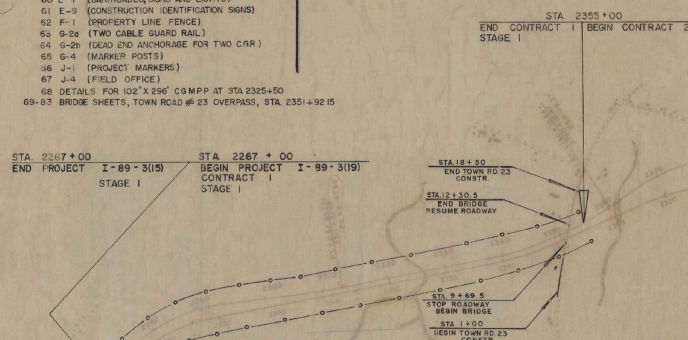
TOWN OF COLCHESTER
COUNTY OF CHITTENDEN
PROJECT 189-3 (19

CONTRACT STAGE 1	LENGTH OF ROADWAY	1.681	MILES OR	8873.84	FEET
	LENGTH OF CONTRACT	1.681	MILES OR	8873.84	FEET

SUBBASE OF GRAVEL - TOURVILLE PIT - JERICHO, VT.
GRAVEL BACKFILL - GREGOIRE PIT - ESSEX CENTER, VT.
SUBBASE OF CRUSHED ROCK - DEMERS QUARRY - WINOOSKI, VT.
ASPHALT (PEN. GRADE) - HUMBOLDT REFINING CO. - EVERETT, MASS.
CONCRETE (CLASS B) - B. & J. CONCRETE CO. - WINOOSKI, VT.
CONCRETE (CLASS B) - S.T. CRISWOLD & CO. INC. - WILLISTON, VT.
TAR EMULSION - L.M. PIKE & SON INC. (PLANT) - WILLISTON, VT.
REINFORCING STEEL - BETHELHELM STEEL CO. - CAMBRIDGE, MASS.
STRUCTURAL STEEL & SPIRAL REINFORCEMENT - BURLINGTON STRUCTURAL
BURLINGTON, VT.

ASPHALTIC ASBESTOS ROOFING - RUTLAND ROOFING CO. - RUTLAND, VT.
BRIDGE PAINT - PITTSBURGH PLATE GLASS CO. - MANCHESTER, N.H.
ASPH. CTD. CORR. GALV. MET. PIPE & ALUMINUM UNDERDRAIN - NORTHEASTERN CULVERT
CORP. BERGER DIVISION & REPUBLIC STEEL CORP. - WESTMINSTER, VT.
TREATED TIMBER PILING - KOPPERS CO. INC. - NASHUA, N.H.
CAST IRON GRATES - E. LEBARON FOUNDRIES CO. - BROCKTON, MASS.
CAST IRON GRATES - E. LEBARON FOUNDRIES CO. - BROCKTON, MASS.
BRIDGE RAILING - VERMONT STRUCTURAL STEEL CORP. - BURLINGTON, VT.
GRANITE BRIDGE CURB - E.L. SMITH QUARRY - BARRE, VT.

CONTRACT :
DATED:-APRIL 23, 1963.
STARTED-MAY 7, 1963.
COMPLETED-JUNE 26, 1964
ACCEPTED-JUNE 26, 1964



COLCHESTER—1 89-3 (19) C-1
CONTRACTOR—PERINI CORP.
FRAMINGHAM, MASS.
RECORD PLANS—E. H. ISHAM.
CONST. COMPLETED—JUNE 26, 1964

NAME	<i>E.H. Stedman</i>	<i>Smiley</i>	<i>A. Stedman</i>	<i>G.M. Lane</i>	<i>A.S. Bishop</i>	CONTRACT 1 -	STAGE	(19)
DATE	<i>July 14, 1961</i>	<i>July 14, 1961</i>	<i>July 13, 1961</i>	<i>July 13, 1961</i>	<i>July 14, 1961</i>		265	

INDEX OF SHEETS

SHEET NO.	TITLE PAGE
2	ALIGNMENT SHEET
3-4	TYPICAL CROSS-SECTIONS (INTERSTATE)
5	TYPICAL CROSS-SECTIONS (TOWN ROAD #23)
6	BLANK
7-8	QUANTITY SHEETS (ITEMS)
9	QUANTITY SHEET (DRAINAGE)
10	BLANK
11-16	EARTHWORK SHEETS
17	BLANK
18	BLANK
19-22	BLANK
23-31	PLAN AND PROFILE SHEETS
32	BLANK
33	BLANK
34	BLANK
35-42	BLANK
43	A-61 (DRILLING AND BLASTING OF SOLID ROCK)
44	B-1 (BANKING TABLES)
45	B-5 (TYPICAL SLOPE GRADINGS)
46	B-6 (MUCK EXCAVATION)
47	B-15 (ENTRANCE AND EXIT TERMINALS)
48	BLANK
49	B-17 (GUARD RAIL IN MEDIAN)
50	BLANK
51	D-2 (C&M & ACCOM UNDERDRAIN)
52	D-3 (GUTTERS-JUTE MATTING)
53	D-4 (FLUSHING BASINS-METAL END SECTIONS)
54	D-8 (R.C. DROP INLETS)
55	D-10 (DROP INLET TOPS)
56	D-11 (GRATES AND COVERS)
57	D-13 (CONC. CATCH BASINS)
58	D-14 (METAL FLUME AND RISERS)
59	D-16 (P.C. RC CURB D.I.)
60	E-1 (BARRICADES, SIGNS AND LIGHTS)
61	E-9 (CONSTRUCTION IDENTIFICATION SIGNS)
62	F-1 (PROPERTY LINE FENCE)
63	G-2 (TWO CABLE GUARD RAIL)
64	G-25 (DEAD END ANCHORAGE FOR TWO C&R)
65	G-4 (MARKER POSTS)
66	J-1 (PROJECT MARKINGS)
67	J-4 (FIELD OFFICE)
68	DETAILS FOR 102' X 20' COMPP AT STA 2325+50
69-83	BRIDGE SHEETS, TOWN ROAD #23 OVERHILLS, STA 2351+92.15

SHEET NO 84-92 SCS-01, 02, 03, 04, 05, 06, 07, 08, 09-62
 83 SCS-24-02
 94-95 SCS-58-56-62
 96-103 CROSS-SECTIONS (INTERSTATE)
 104-158 CROSS-SECTIONS (TOWN ROAD #23)
 159-160 CROSS-SECTIONS (CHANNEL LINE AT STA 2326+48.07)
 161-265 BLANK

Dated APRIL 23, 1963

PERINI CORPORATION

Louis L. Capone

Louis L. Capone
 Vice President

Contractor

Thomas A. Sheridan
 Commissioner of Highways
 By Order of Commissioner of Highways

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

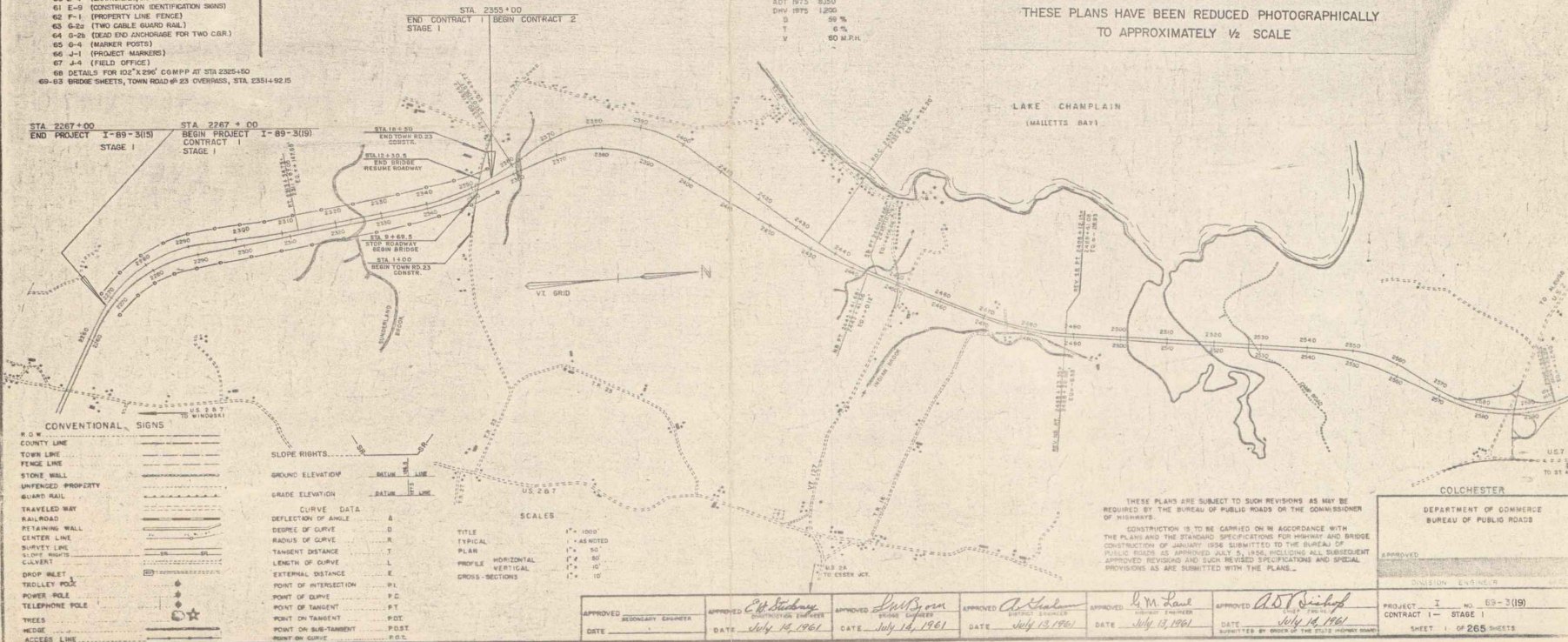
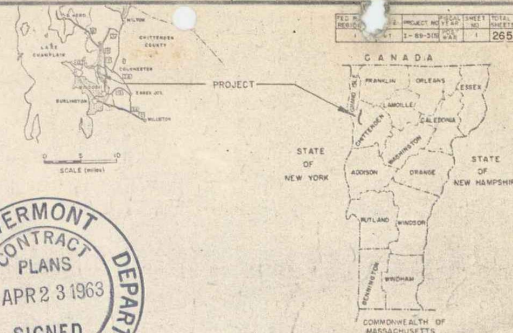
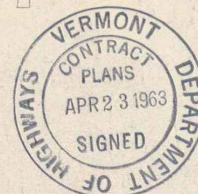
TOWN OF COLCHESTER COUNTY OF CHITTENDEN PROJECT 1 89-3 (19)

BEGINNING AT A POINT IN COLCHESTER 0.937 MILE NORTH OF THE WINDSOR-
 COLCHESTER TOWN LINE AND EXTENDING NORTHERLY FOR A DISTANCE OF 1.681 MILES
 CONTRACT 1 LENGTH OF ROADWAY 1.681 MILES OR 8873.84 FEET
 STAGE 1 LENGTH OF CONTRACT 1.681 MILES OR 8873.84 FEET

DESIGN DESIGNATION

ADT 1958 3850
 ADT 1975 8,550
 DMV 1975 1,250
 D 55 %
 T 6 %
 V 60 M.P.H.

THESE PLANS HAVE BEEN REDUCED PHOTOGRAPHICALLY
 TO APPROXIMATELY 1/2 SCALE



CONVENTIONAL SIGNS

R.O.W.	COUNTY LINE
	TOWN LINE
	FENCE LINE
	STONE WALL
	UNFENCED PROPERTY
	QUART RAIL
	TRAVELED WAY
	RAILROAD
	RETAINING WALL
	CENTER LINE
	SURVEY LINE
	WATER MARK
	CULVERT
	DROP INLET
	TROLLEY POLE
	POWER POLE
	TELEPHONE POLE
	THREE
	WEDGE
	ACCESS LINE

SLOPE RIGHTS	GROUND ELEVATION
	RAILROAD LINE
	RAILROAD LINE

CURVE DATA	DEFLECTION OF ANGLE
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	PI
POINT OF CURVE	P.C.
POINT OF TANGENT	P.T.
POINT ON TANGENT	P.O.T.
POINT ON CURVE	P.O.C.

TITLE	1" = 1000'
TYPICAL	1" = 50'
PLAN	1" = 80'
PROFILE	1" = 10'
CROSS-SECTIONS	1" = 10'

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
DATE	DATE	DATE	DATE	DATE	DATE

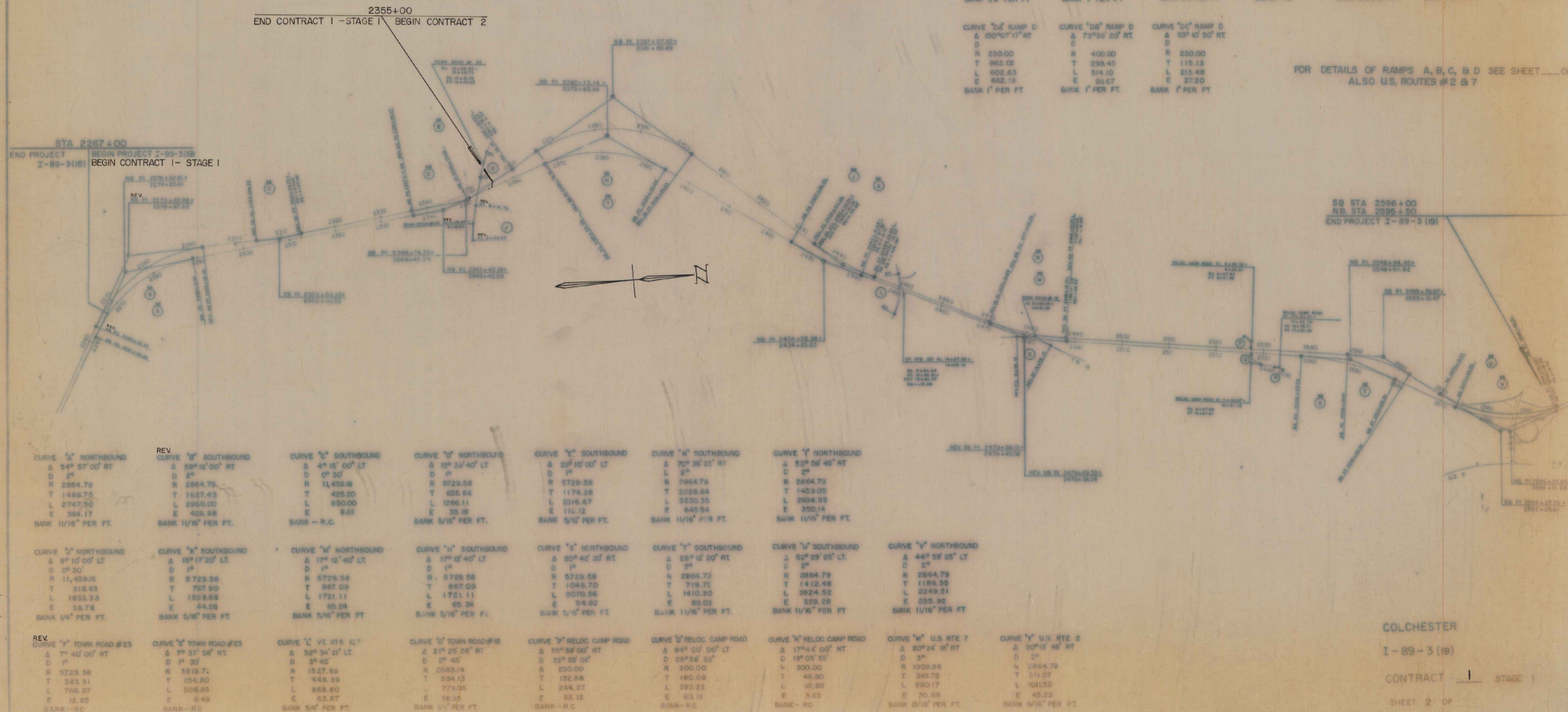
PROJECT 1	NO. 89-3 (19)
CONTRACT 1	STAGE 1
SHEET 1	OF 265 SHEETS

COLCHESTER
INTERSTATE ROUTE #89
ALIGNMENT SHEET

CURVE "1A" RAMP A Δ 30°51' 22" RT D 8° R 716.20 T 137.69 L 385.70 E 25.77 BANK 20' PER FT	CURVE "1B" RAMP A Δ 59°58' 45" RT D 8° R 716.20 T 137.69 L 385.70 E 25.77 BANK 20' PER FT	CURVE "1C" RAMP B Δ 37° 23' 25" RT D 8° R 716.20 T 137.69 L 385.70 E 25.77 BANK 20' PER FT	CURVE "1D" RAMP B Δ 59° 15' 52" RT D 8° R 716.20 T 137.69 L 385.70 E 25.77 BANK 20' PER FT	CURVE "1E" RAMP C Δ 37°05' 06" LT D 8° R 477.50 T 132.81 L 201.23 E 19.12 BANK 20' PER FT	CURVE "1F" RAMP C Δ 59°50' 35" LT D 8° R 477.50 T 132.81 L 201.23 E 19.12 BANK 20' PER FT	CURVE "1G" RAMP C Δ 49°03' 16" RT D 8° R 477.50 T 132.81 L 201.23 E 19.12 BANK 20' PER FT	CURVE "1H" RAMP C Δ 49°03' 16" RT D 8° R 477.50 T 132.81 L 201.23 E 19.12 BANK 20' PER FT
--	--	---	---	--	--	--	--

CURVE "1I" RAMP D Δ 50°07' 17" RT D 8° R 230.00 T 298.40 L 502.63 E 662.16 BANK 1' PER FT	CURVE "1J" RAMP D Δ 73°55' 22" RT D 8° R 230.00 T 298.40 L 502.63 E 662.16 BANK 1' PER FT	CURVE "1K" RAMP D Δ 59° 45' 50" RT D 8° R 230.00 T 298.40 L 502.63 E 662.16 BANK 1' PER FT
--	--	---

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



THE UNIVERSAL FERTILIZER, ITEM 415, SHALL BE USED AS FOLLOWS:

UNIFORM	PERCENT	RATE OF APPLICATION
PHOSPHORUS	10%	500 LBS/ACRE
POTASH	10%	500 LBS/ACRE

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

SEEDING METHOD	10 LBS/ACRE	20 LBS/ACRE	30 LBS/ACRE	40 LBS/ACRE	50 LBS/ACRE	60 LBS/ACRE	70 LBS/ACRE	80 LBS/ACRE	90 LBS/ACRE	100 LBS/ACRE
GRASSHOPPER	15	15	15	15	15	15	15	15	15	15
VENTURIAN BLUE GRASS	15	15	15	15	15	15	15	15	15	15
RED TOP	15	15	15	15	15	15	15	15	15	15
JOINTED KENT GRASS	15	15	15	15	15	15	15	15	15	15
PERMANENT MATERIAL	15	15	15	15	15	15	15	15	15	15

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

MAINT. ITEM 512, TO BE PLACED ON ALL EARTH SLOPES (1 1/2 TON PER ACRE).

TOTAL MAINT. ITEM 512, TO BE PLACED AS DIRECTED BY THE ENGINEER.

FOR SLOPES AND SLOPING OF SOLID ROCK SUBGRADE, SEE SHEET A-61.

FOR ROUNDED SLOPES, SEE SHEET B-5.

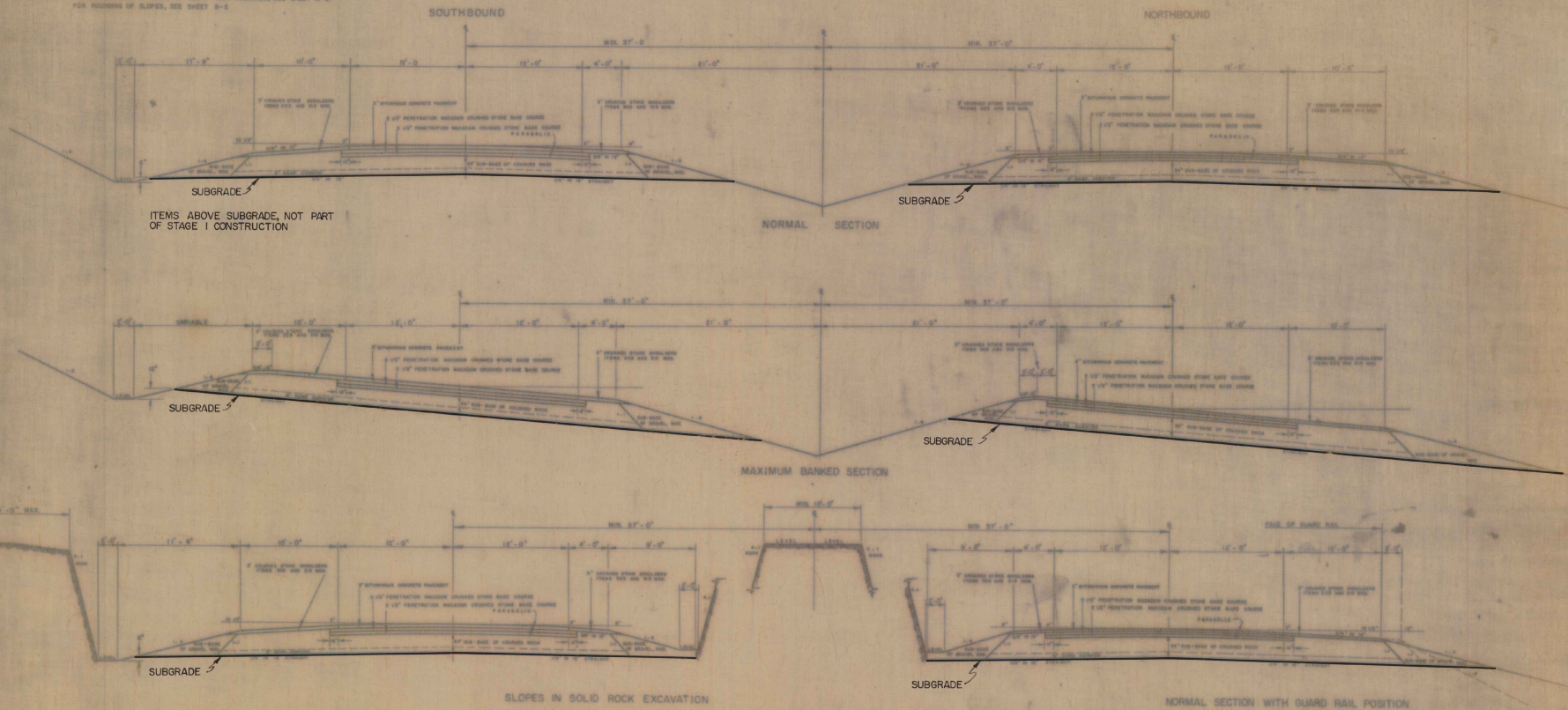
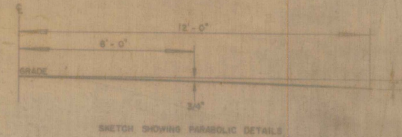
INTERSTATE TYPICAL SECTIONS

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)
 24" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD. ($\pm 1"$)
 3" CRUSHED STONE SHOULDERS, ITEM 303 DOUBLE THICK COAT OF BITUMINOUS MATERIAL WITH FEA STONE AND STONE WHITE SEAL.
 PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF OUTSIDE ASPHALT, ITEM 308 MOD.
 SUB-BASE OF GRAVEL, ITEM 201-A, MOD.

THESE ITEMS ARE NOT PART OF
 STAGE 1 CONSTRUCTION

PERMISSIBLE TOLERANCES IN PARENTHESES
 APPLY TO THICKNESS ONLY.

STAGE 1 CONSTRUCTED AS DESIGNED



STAGE 1 CONSTRUCTION
 COLCHESTER CONTRACT # 1

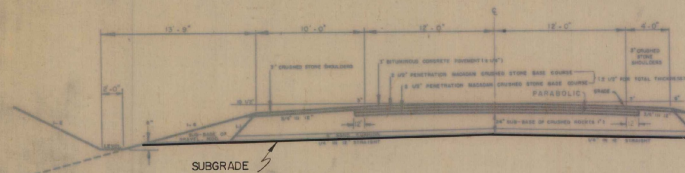
1 89-3 (19)
 3 265

INTERSTATE TYPICAL SECTIONS

THESE ITEMS ARE NOT PART OF
STAGE I CONSTRUCTION
AS DESIGNED

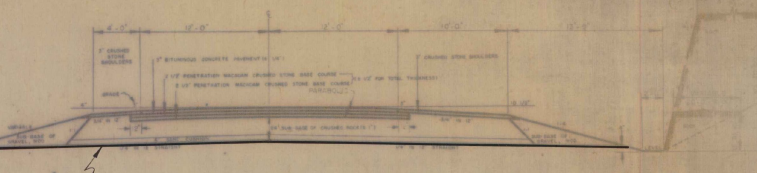
- 3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B, MODIFIED ($\pm 1/4"$)
- 2-2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 ($\pm 1/2"$ FOR TOTAL THICKNESS)
- 24" SUB-BASE OF CRUSHED ROCK, ITEM 204, MODIFIED ($\pm 1"$)
- 3" CRUSHED STONE SHOULDERS, ITEM 303
- DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH FEA STONE AND STONE DUST SEAL
- PAVING COAT OF REFINED TAR AND DOUBLE SEAL COAT OF OUTSIDE SURFACING, ITEM 305 AND
- SUB-BASE OF GRAVEL, ITEM 201-A, MODIFIED

PERMISSIBLE TOLERANCES IN PARENTHESES
APPLY TO THICKNESS ONLY.

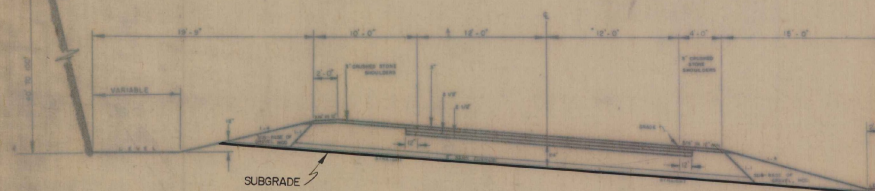


ITEMS ABOVE SUBGRADE ARE NOT PART
OF STAGE I CONSTRUCTION

NORMAL SECTION
WITH VARIABLE MEDIAN

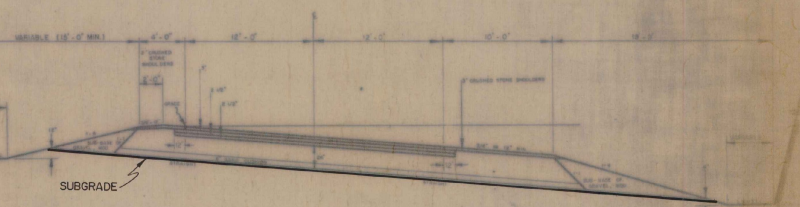


SUBGRADE

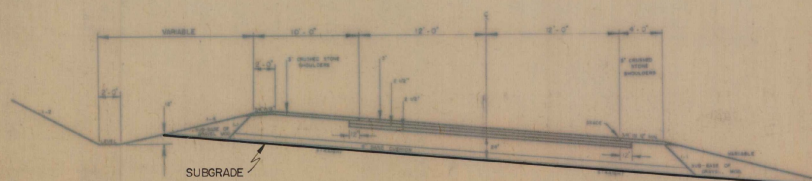


SUBGRADE

BANKED SECTION
(IN SOLID ROCK)
WITH VARIABLE MEDIAN
FOR SOLID ROCK EXCAVATION
SEE STANDARD SHEET A-61

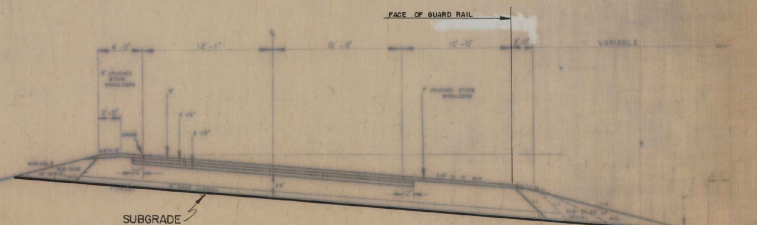


SUBGRADE

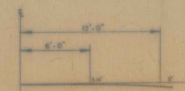


SUBGRADE

MAXIMUM BANKED SECTION



SUBGRADE



DETAILS OF PARABOLIC

GENERAL NOTES

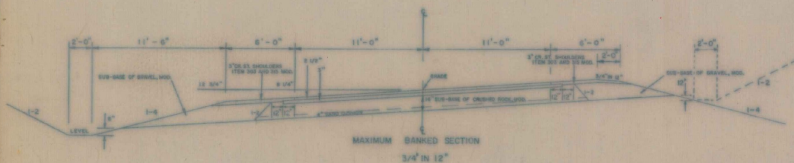
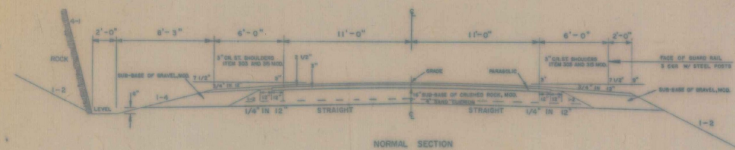
CONTRACTOR SHALL BE DELIVERED IN HAND OF NOT TO EXCEED 10% OF THE TOTAL CONTRACT VALUE.
PART OF BROADCAST SHALL BE DELIVERED IN HAND OF NOT TO EXCEED 10% OF THE TOTAL CONTRACT VALUE.
SLOPE OF WATER FOR THE ROAD SHALL BE APPLIED TO THE SURFACE OF THE ROAD.
THE SURFACE OF THE ROAD SHALL BE APPLIED TO THE SURFACE OF THE ROAD.
SLOPE OF WATER SHALL BE APPLIED TO THE SURFACE OF THE ROAD.
SLOPE OF WATER SHALL BE APPLIED TO THE SURFACE OF THE ROAD.
SLOPE OF WATER SHALL BE APPLIED TO THE SURFACE OF THE ROAD.
SLOPE OF WATER SHALL BE APPLIED TO THE SURFACE OF THE ROAD.

COLCHESTER CONTRACT # 1
STAGE I CONSTRUCTION

TYPICAL SECTIONS VERMONT ROUTE #127

2 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD. (± 1/4")
 3" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 (± 1/2")
 15" 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 DOTS 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 PARENTHESES
 APPLY TO THICKNESS ONLY.

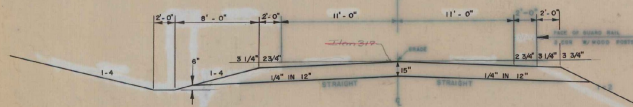


VT. ROUTE 127 TO BE BUILT IN ITS ENTIRETY
 DURING STAGE I CONSTRUCTION.

CONTRACT # 2

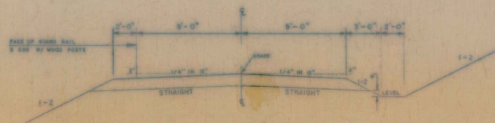
TYPICAL SECTION TOWN ROAD # 23

SINGLE TACK COAT OF REFINED TAR & BLADE MIX PEASTONE-SEAL WITH CUTBACK ASPHALT, ITEM 317
 15" SUB-BASE OF GRAVEL, ITEM 201-A 1 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-C h.s



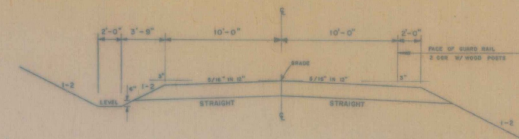
CONTRACT # 1

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



CONTRACTS 2 & 3

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



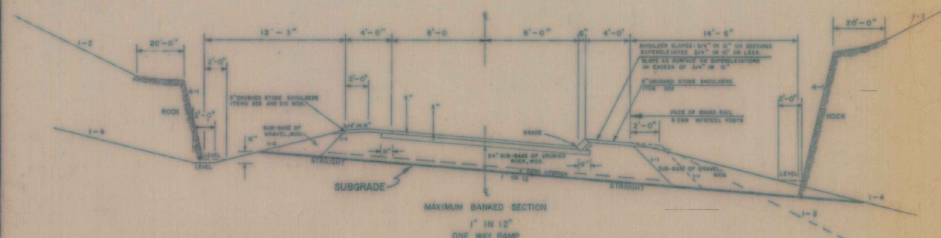
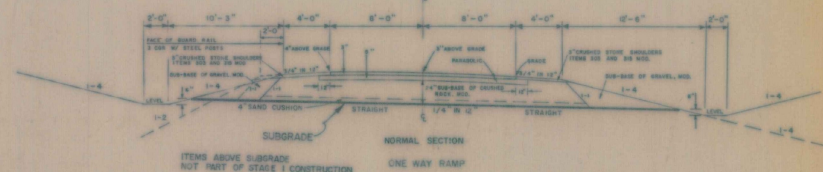
CONTRACT # 3

TYPICAL SECTIONS RAMPS

THESE ITEMS ARE NOT
 PART OF STAGE I 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")
 5" CRUSHED STONE SHOULDERS, ITEM 303
 DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE DOTS SEAL
 PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD.
 SUB-BASE OF GRAVEL, ITEM 201-A MOD.
 (EXCEPTION-NOT USED BACK OF GRANITE SLOPE EDDING)

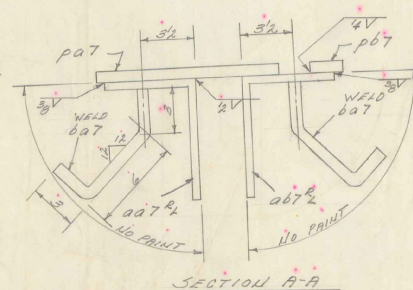
PERMISSIBLE TOLERANCES IN PARENTHESES
 APPLY TO THICKNESS ONLY.



CONTRACT # 4

STAGE I CONSTRUCTION
 COLCHESTER

DESIGNED: L. C. J.
 DRAWN & TRACED: G. H. HARRIS
 PROJECT: 2 NO. 10-5-103
 CONTRACT NO. 1
 SHEET 5 OF 265



A hand-drawn diagram of a T-joint weld. It shows a vertical plate of thickness t_1 and a horizontal plate of thickness t_2 . The horizontal plate has a width of 0.9 . The weld is labeled "WELD 0.7" on both sides. The distance from the centerline of the horizontal plate to the edge of the vertical plate is labeled 0.9 . The thickness of the horizontal plate is labeled t_2 and the thickness of the vertical plate is labeled t_1 .

2- END DAM E03 AS SHOWN
2- END DAM E04 OPP. HAND
2- END DAM E05 AS SHOWN
2- END DAM E06 OPP. HAND

VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT. <i>124-3(12)</i> <i>Cont #2</i>			
<i>REV. PER ADD SHEET 4, 5</i>			
DATE	PROJECT	PRINT RECORD	
	<i>INT. 9 OVER VT. RFE 112</i>		
DRAWN BY <i>KIT</i>	CUSTOMER	NO.	DATE
	<i>CHASTACOST, VERMONT</i>	<i>3</i>	<i>RFE 112</i>
CHECK BY <i>HP</i>	LOCATION	<i>90</i>	<i>APP</i>
	<i>LAKE COUNTRY CO.</i>	<i>RFE</i>	<i>9-11</i>
HOLDS	ARCHITECT		
	<i>ST. OF VT. DEPT. OF HIGHWAYS</i>		
BIVETS	JOB NO.	SHEET NO.	
	<i>63-691</i>	<i>7</i>	
PAINT CODE			
<i>AL VT. SPAN</i>			

QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

COLCHESTER Contract 1 PROJECT NO. 189-3(19)

Stage I Construction
SUMMARY SHEET NO. OF 19

APPROXIMATE SUMMARY OF QUANTITIES

	R.O.W.	TO CROSS OVERPASS # 2392+11	ROADWAY	QUANTITIES GRADE TOTAL	UNIT	I T E M S	Quantity	ITEM NO.	
				385,500	385,500	C.Y.	Common Excavation	970	161-A
				10,500	10,500	S.Y.	Solid Rock Excavation	280	101-B
				100,000	100,000	S.Y.	Borrow	472	102
				152,500	152,500	S.Y.	Granular Borrow	199	102-A
				13,850	13,850	C.Y.	Trench Excavation of Earth	97	103-A
				650	650	C.Y.	Trench Excavation of Rock	103-B	
				1	1	L.S.	Clearing & Grubbing, Mod. (37.2 Acres plus indiv. trees)	104	
				4,900	4,900	S.Y.	Fine Grading - Subgrade, Mod.	99	105
				140	140	C.Y.	Channel Excavation of Earth	106-A	
				25	25	C.Y.	Channel Excavation of Rock	106-B	
			100	530	530	C.Y.	Structure Excavation	107	
				6	6	PAY	Roadway Patrol Maintenance	Est.	108
				115	115	M/Gal.	Dust Control	Est.	111
				2,000	2,000	S.Y.	Drilling & Blasting of Solid Rock	1	113
				15,500	15,500	S.Y.	Drilling & Blasting of Solid Rock Subgrade, Modified	114	
				550	550	C.Y.	Huck Excavation	Est.	116
				90	90	HOHR	Bulldozer Rental	Est.	119
				1,800	1,800	C.Y.	Sub-base of Gravel	11	201-A
				3,650	3,650	C.Y.	Sub-base of Sand, Modified	Est.	202
			62	-62	-62	C.Y.	Sub-base of Crashed Rock, Mod. Under Structure	204	
				58,500	58,500	Y/HI	Gravel Overhaul, Mod.	(10 mi.)	221
			20	125	125	C.Y.	Gravel Backfill	222	
				1,100	1,100	GAL.	Stripping of Gravel Pits	Ext.	223
				4,900	5,900	C.M.	Single Thick Co. of Hot Tar & Bitume Single Coat of Seal w/ Oil Asphalt Tar Emulsion for Bridge Floors	32	217
				270	270	GAL.	Outback Asphalt	32	218
				2,270	2,270	GAL.	Joint Sealer - Cold Applied	20	222
				90	90	C.F.	Concrete Class A, Mod.	101-B	
				84	84	C.F.	Concrete Class B, Modified	1-2	101-B
			87	50	50	C.F.	Concrete Reinfc Masonry	Est.	101-B
			236	56	56	L.F.	12" Reinf. Conc. Pipe, Mod. Class III	6-8	811
				368	368	L.F.	18" Reinf. Conc. Pipe, Mod. Class III	Est.	821-D
				720	720	L.F.	24" Reinf. Conc. Pipe, Mod. Class III	821-E	
				68	68	L.F.	30" Reinf. Conc. Pipe, Mod. Class IV	821-F	
				668	668	L.F.	36" Reinf. Conc. Pipe, Mod. Class III	821-G	
				50	50	L.F.	36" Reinf. Conc. Pipe, Mod. Class III	821-H	
				56,530	62,500	L.B.	Reinforcing Steel	60	801
				174	174	L.F.	12" Spnc. Asph. Cld. Corr. Galv. Met. Pipe Elbow	422-B	
				38	38	L.F.	18" Spnc. Asph. Cld. Corr. Galv. Met. Pipe Elbow	422-C	
				12	12	L.F.	24" Spnc. Asph. Cld. Corr. Galv. Metal Pipe Elbow	422-D	
				12	12	L.F.	30" Spnc. Asph. Cld. Corr. Galv. Metal Pipe Elbow	422-E	
				122	122	L.F.	8" Asph. Cld. Corr. Galv. Met. Pipe	822-A	
				598	598	L.F.	12" Asph. Cld. Corr. Galv. Met. Pipe	822-B	
				514	514	L.F.	18" Asph. Cld. Corr. Galv. Met. Pipe	822-C	
				588	588	L.F.	24" Asph. Cld. Corr. Galv. Met. Pipe	822-D	
				202	202	L.F.	30" Asph. Cld. Corr. Galv. Met. Pipe	822-E	
				368	368	L.F.	36" Asph. Cld. Corr. Galv. Met. Pipe	822-F	
				98	98	L.F.	36" Asph. Cld. Corr. Galv. Met. Pipe	822-G	
				390	390	L.F.	Relaying Pipe Culverts	Est.	528
				1	1	L.S.	102X-20H Cor. Galv. Met. Plate Pipe Sta. 232+00 - 232+488	423-A	
				1	1	E.A.	18" Mot. End Section for Asph. Cld. Corr. Galv. Met. Pipe	820-B	
				1	1	E.A.	24" Mot. End Section for Asph. Cld. Corr. Galv. Met. Pipe	820-C	
				1	1	E.A.	30" Mot. End Section for Asph. Cld. Corr. Galv. Met. Pipe	820-D	
				390	390	L.F.	Elbows for Meter Pipes	Est.	831
				1	1	L.S.	Furnishing Equipment for Driving Piles	501	
				8,200	8,200	L.F.	Trestle Timber Piling	802	
				55	55	E.A.	Riprap for Bank Protection, Mod. for Culv. Ends	526	
				22	22	E.A.	Cast Iron Cover for Asph. Cooled Corr. Hot. Pipe Flushing Basin	530	
				0,000	0,000	L.F.	8" Part. Asph. Cld. Corr. Galv. Met. Underdrain, Mod.	76	531-A
				180	180	L.F.	8" Part. Asph. Cld. Corr. Galv. Met.	#	531-B
				15	15	E.A.	Underdrain, Mod.	76	531-C
				15	15	E.A.	Hot. Reinf. Conc. Curb Drop Inlet with Cast Iron Grates & Frame	537-7	
				15	15	E.A.	Cast Iron Grates Type A	537-8	
				1,829	1,388	L.F.	Two Cable Guard Rail	542	
				8	8	E.A.	Anchors for Two Cable Guard Rail	545	
				5	5	E.A.	Wood Marker Posts	1	546-5
				750	750	S.F.	Bit. Cracked Stone Gutter	556	
				526	526	L.F.	Grassie Bridge Grc Mod.	556-2	
				508	508	L.F.	Bridge Railing	572	
				10,800	10,800	L.F.	Property Line Fence w/ St. Posts, Mod.	20	672
				21,900	21,900	L.F.	1/4" Seamless Copper Water Tube	Est.	688
				1,078	1,078	L.B.	Winter Bm	Est.	610
				1,290	1,290	L.B.	Sealing	12	611
				21,900	21,900	L.B.	Commercial Pavement for Drains	100	615
				85,200	85,200	L.B.	Ground Linestm	416	
				11	11	C.Y.	Topsoil	0-2	621
				31	31	TON	Hoist Mod.	0	622
				11	11	L.B.	Flag Drive	0	623

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		101-A COMMON EXCAVATION
338,086	C.Y.	Mainline
482	C.Y.	From Road 23
970	C.Y.	Reinforcing
339,550	C.Y.	Total
		102-A GRANULAR BEDDING
142,442	C.Y.	Mainline
16,438	C.Y.	Bridge Approaches
189	C.Y.	Reinforcing
142,500	C.Y.	Total
		531-A
		4" PERP. ASPH. CTD. CONC. GALLY. DET. UNDERDRAIN, 1000.
7,284	L.F.	Designed
70	L.F.	Reinforcing
1,680	L.F.	Estimate
9,000	L.F.	Total
		201-A SURFACE OF GRAVEL
1,709	C.Y.	T.R. #23
80	C.Y.	Underdrain
11	C.Y.	Reinforcing
1,800	C.Y.	Total
		101-B ROCK EXCAVATION
15,572	C.Y.	Mainline
472	C.Y.	55 Overbreakage
218	C.Y.	Reinforcing
16,500	C.Y.	Total
		102-A TRENCH EXCAVATION OF EARTH
5,850	C.Y.	Pipe Culverts & Special Ditches
5,205	C.Y.	Designed for Underdrains
1,200	C.Y.	Est. for Underdrain
208	C.Y.	Relaxing Pipe Culverts
204	C.Y.	Gleaves for Water Pipes
27	C.Y.	Reinforcing
13,880	C.Y.	Total

DETAILED SUMMARY OF QUANTITIES

[illegible]

TYPE OF CONSTRUCTION

STATIONS		PAVEMENT WIDTHS		EQUATIONS	
FROM	TO	2-20'	Varies	+	-
2267+00	2268+00	NORTHBOUND	8.8' x 100.00		Accel. Lane Thru
2268+00	2355+00	8,700.00			
		8,700.00	100.00		
		SOUTHBOUND			
2267+00	2318+96.73	8,689.73		187.66	
2311+67.05	2355+00	8,312.85			
		8,847.68		187.66	
TOTALS					
LENGTH OF PROJECT					
STATIONS	FEET	MILES	REMARKS		
2267+00	2355+00	8,873.84	1.680	Roadway	
TOTALS					

C O L C H E S T E R
CONTRACT & STAGE : CONSTRUCTION No. 180-3(18)
Filed
Sheet of 205 Sheets

STATE OF VERMONT DEPARTMENT OF HIGHWAYS
COLCHESTER CONTRACT 1 PROJECT NO. 189-8(19)
STAGE 1 CONSTRUCTION SUMMARY SHEET NO. OF 19

APPROXIMATE SUMMARY OF QUANTITIES						
R. O. W.	TW 23 OVERPASS BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
	# 2052+11					
					PRESTRESSED SUPERSTRUCTURE ALTERNATE A	
		92	92	TON	Bituminous Concrete Pavement (Hnd.)	361-B
	61		61	C.Y.	Concrete Class A (Hnd.)	301-A
	6		6	C.Y.	Concrete Class B (Hnd.)	301-B
	6,480		6,480	LBS	Reinforcing Steel	302
	102		102	S.Y.	Asphaltic Asbestos Coating (1/4")	307
	2		2	EA.	Prestressed Concrete Members (30"x32"x30")	309
	6		6	EA.	Prestressed Concrete Members (40"x33"x30")	309
	9		9	EA.	Prestressed Concrete Members (30"x32"x30")	309
	12		12	EA.	Prestressed Concrete Members (30"x32"x30")	309
	2		2	EA.	Prestressed Concrete Members (30"x32"x30")	309
	6		6	EA.	Prestressed Concrete Members (40"x33"x30")	309
					WE BEAM SUPERSTRUCTURE ALTERNATE B	
		60	60	TON	Bituminous Concrete Pavement (Hnd.)	361-B
	262		262	C.Y.	Concrete Class A (Hnd.)	301-A
	2		2	C.Y.	Concrete Class B (Hnd.)	301-B
	55,090		55,090	LBS	Reinforcing Steel	302
	1		1	L.S.	Spiral Reinforcement (30/09)	303
	251,400		251,400	LBS	Structural Steel	303-A
	56		56	S.Y.	Asphaltic Asbestos Coating	307

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DRAINAGE STRUCTURES

[illegible]

ITEM DETAIL AND DRAINAGE SHEET

DRAINAGE STRUCTURES

DRAINAGE STRUCTURES																												* THREE CABLE GUARD RAIL WITH STEEL POSTS											
STA.	STA.	POSITION	OLD CULVERT	TYPE	R.C.P.	ACCUM.P.	PROPOSED	EXISTING	CONC.	REINFORC.	C.M.	DEPTH	TRENCH	CHANNEL	STRUCT.	GRAVEL	STONE	PIPE	SIZE	RIP	PAVED	RELAY	ASKEW	STAGE	REMARKS	STA.	STA.	LT.	RT.	MEDIAN	ANCHORS								
2354+00		NB Rt.		PROCDI																						2-15" Elbow	2354+00	2354+02		752		4							
2357+00		NB Lt.		PROCDI																						2-15" Elbow	2357+00	2357+02		818		4							
2360+00		NB Rt.		PROCDI																						1-10" x 1-25" Elbow	2359+00	2360+00		1054		4							
2361+00		NB Lt.		PROCDI																						1-10" x 1-25" Elbow	2360+00	2361+00		608		4							
2361+00		Rt. Med.		C.H.	CH																					Top gr. 6, Bot. 7.57, 0.00	2360+00	2361+00		608		2							
2361+77		Med. Lt.		C.H.	CH	30	68																			Top gr. 10, Bot. 8.35, 8.50	2360+00	2361+00		608		2							
2368+00		Med. Lt.		S.H.	CH	30	88																			Class III	2368+00	2369+00		608		2							
2368+00		Rt. Med.		S.H.	CH	30	88																			Class III	2368+00	2369+00		608		2							
2375+00		Med. Lt.		S.H.	MES																					Class III	2375+00	2376+00		608		2							
2378+00	2378+25	NB Rt.																							Special Biton	2378+00	2379+00												
2379+00	2380+00	SB Rt.																							Special Biton	2379+00	2380+00												
2378+25		Rt. Med.		S.H.		26	100																			Class III, Imperfect Trench	2380+00	2380+00		256		2							
2380+00		Med. Lt.		RCDI		30	140																			Class III	2380+00	2381+00		128		2							
2387+00		Rt. Med.		S.H.	MES		10	76																		Class III	2387+00	2388+00		1056		6							
2387+00		Med. Lt.		RCDI		24	64																			Class III	2387+00	2388+00		1008		2							
2381+00	2385+50	NB Rt.		RCDI		24	448																			Class III	2381+00	2385+50											
2385+50		Rt. Med.		RCDI		30	92																			Class III	2385+50	2386+00											
2386+00		Med. Lt.		RCDI		24	88																			Class III	2386+00	2387+00											
2386+00		Rt. Med.		S.H.		30	272																			Class III	2386+00	2387+00											
2381+55		SB Rt.		PROCDI																						Class III	2381+55	2382+00											
2381+50		Med. Lt.		S.H.		82	112																			Class III, Imperfect Trench	2381+50	2382+00											
2384+00		SB Lt.		PROCDI																						Class III	2384+00	2385+00											
2385+00		SB Rt.		PROCDI																						Class III	2385+00	2386+00											
2385+00		Med. Lt.		S.H.	CH	24	156																			Class III, Imperfect Trench	2385+00	2386+00											
2387+00		SB Lt.		PROCDI																						Class III	2387+00	2388+00											
2388+00		SB Rt.		PROCDI																						Class III	2388+00	2389+00											
2388+00		Med. Lt.		S.H.	CH	18	58																			Class III	2388+00	2389+00											
2388+00		Med. Rt.		S.H.	CH	18	216																			Class III	2388+00	2389+00											
2388+00		Rt. Med.		S.H.	MES	18	102																			Class III	2388+00	2389+00											
2388+00	2389+50	SB Lt.		RCDI		18	100																			Class III	2388+00	2389+50											
2389+50		Med. Lt.		RCDI		18	74																			Class III	2389+50	2390+00											
2389+50		Rt. Med.		RCDI		26	40																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	552																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																			Class III	2389+50	2390+00											
2389+50		Med. Rt.		RCDI		82	56																			Class III	2389+50	2390+00											
2389+50		SB Lt.		RCDI		18	46																			Class III	2389+50	2390+00											
2389+50		Med. Lt.		RCDI		24	428																																

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	V.T.		POST WAR		

[illegible]

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.		POST WAR		

[illegible]

		GRADES				TOTAL EXCAVATION FORTH AND BACK		ROCK		EMBANKMENT		BASE				
V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V.C.	DIST.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.	AREA	CU YDS.		
+3,000' ±	X	2280+50	328.32				221	0								
		+96.27	326.93	326.93	0	50		1073		133						
		2281	326.62	326.62	0	50	938	1499	144				C	1155		
		+50	325.32	325.30	-0.02	50	681	1171	75	204			R	3103		
		2282	323.62	323.75	-0.07	50	584		145	0			F	1,25		
		+50	322.32	322.16	-0.16	50	50	1293		374			Exc	1345		
		2283	320.82	320.54	-0.28	50	783	1482	139	369						
		+50	319.32	318.88	-0.44	50	585	1011	133	246						
		2284	317.82	317.19	-0.63	50	507	988	133	472						
		+50	316.32	315.47	-0.85	25	560	534	377	390						
-1,000' ±	X	+75	315.57	314.59	-0.98	50	594		465							
		+96.27	314.93	313.04	-1.09	25		561		460						
		2285	314.78	313.71	-1.07	50	661		520							
		+50	312.73	311.91	-0.82	50	473	1050	394	854	0	454	C	2228		
		2286	310.69	310.09	-0.60	50	293	711	255	601	490		R	1857		
		+50	309.65	308.24	-0.41	50	50	370		324	615	1023	F	1,25		
		2287	306.60	306.34	-0.26	50	105	97	95	88	910		Exc	1888		
		+50	304.56	304.41	-0.15	50	0	0	0							
		2288	302.52	302.46	-0.06	50					1195	1949				
		+50	300.47	300.46	-0.01	50					2314	2459				
-1,000' ±	X	+96.27	298.58	298.58	0	50					2310					
		2289	298.42			50					1175	2351				
		+50	296.38			50					1364	2584				
		2290	294.34			50					1427					
		+50	292.29			50						1248	2477			
		2291	290.25			50						1163	2232			
		+02.8	290.14			42.5							1853			
		+42.5	288.51			50						1191	2242			
		+50	288.21			50							1230			
		+92.5	286.47			50							2213	C	0	
-1,000' ±	X	2292	286.16			50								0		
		+42.5	284.43			50						1160		R	1807	
		+50	284.12			50.1							1964	F	1,25	
		+92.6	282.38			50								Exc	2385	
		2293	282.07			51.2						987				
		+43.8	280.28			50.1							876			
		+50	280.03			50.1							1581			
		+93.9	278.24			50.2							823			
		2294	277.99			50.2							1307			
		+44.1	276.18			50.1							579			
+50	275.94			50.1							865					
-1,000' ±	X	+94.2	274.14			50.1						354				
		2295	273.99			50.1							600			
		+44.3	272.09			50.2						293				
		+50	271.86			50.2							429			
		+94.5	270.04			50.1							168			
		2296	269.81			50.1							264			
		+44.6	267.99			50.1							117			
		CARRIED FORWARD							13131		4970		693		36651	
		COLUMN FOOTINGS														

GRADES										TOTAL EXCAVATION (EARTH AND ROCK)		ROCK		EMBANKMENT		BASE	
VC	% GRADE	STATION	ELEVATION ON TANGENT	ON V. CURVES	CORR V. C.	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	
+L 03745		2296+04.6	267.50									117					
		+50	267.77			50.2							161				
		+04.8	265.94				0	24				56		72			
		2297	265.73			50.1											
		+04.9	263.69				26					22					
		+50	263.63			50.1		131					113				
		+55.0	261.84				115					100					
		2298	261.64			50.2		196					507		C	420	
		+45.2	259.79				85					445			R	0	
		+50	259.59			50.1		79					1619		F	9596	
		+55.3	257.70				0					1300			FAC.	1.25	
															Exp	11979	
		2299	287.55			50.1							2114				
		+45.4	255.69										979				
		+50	255.51			50.2								1993			
+L 03745		+55.6	253.64									1165					
		2300	253.46			50.1							2322				
		+45.7	251.59									1338					
		+50	251.42			50.2							2811				
		+25.9	249.54									1696					
		2301	249.38			50.1							2928				
		+46.0	247.50										1070				
		+50	247.33			50.1							3281		C	0	
		+56.1	245.45									2066			R	0	
		2302	245.29			50.2							4151		F	34418	
		+46.3	243.40									2399			FAC.	1.25	
		+50	243.24			50.1							4730		Exp	42898	
		+46.4	241.35									2699					
		2303	241.20			50.1							4995				
	+L 03745		+46.5	239.30									2685				
		+50	239.16			50.2							4531				
		+46.7	237.25									2189					
		2304	237.11			50.1							1964			3760	
		+46.8	235.20														
		+50	235.07			50.2								3131			
		+47	233.15				0					1504					
		2305	233.03			50.1		16					1655				
		+47.1	231.10			50.1	17	526				496		609			
		+50	230.98														
		+47.2	229.05				550					160					
		2306	228.91			50.1		863					273				
		+47.3	227.01				380					140					
		+50	226.89			50		352					601				
		+47.5	224.96				0					509					
	2307	224.85			50.1							1132		C	1757		
+L 03745		+47.4	222.91									711			R	0	
		+50	222.81			50.1							1544		F	20638	
		+47.5	220.87									953			FAC.	1.25	
		2308	220.76			50							1762		Exp	23221	
		+47.5	218.82									950					
		+50	218.72			50.1							2150				
		+47.6	216.77									1377					
		2309	216.63			50							3181				
		+47.6	214.73										2015				
	CARRIED FORWARD							1757				13081					
	COLUMN FOOTINGS							2177		0		56300					
	PROJECT		COLCHESTER		SOUTHBOND CONTRACT 1		PROJECT 1		NO. 50-211-1		SHEET 13		265		SHEETS 2-29 (3-29)		

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.		POST WAR		

[illegible]

EARTHWORK SUMMARY

SUMMARY BY COLUMNS

SUMMARY OF BALANCES										SUMMARY OF BALANCES										SHEET NO.	COL. NO.	EXCAVATION				EMBANKMENT					
STATION	TO	STATION	TOTAL EARTH & ROCK CUT	EXCESS	ROCK EXCAVATION	EMBANKMENT	EXCESS	ROCK EXCAVATION	EMBANKMENT	STATION	TO	STATION	TOTAL EARTH & ROCK CUT	EXCESS	ROCK EXCAVATION	EMBANKMENT	EXCESS	ROCK EXCAVATION	EMBANKMENT				TOTAL	CU	YDS	ROCK	CU	YDS	TOTAL	CU	YDS
N12267+0		N12270+0	926	0	1394		814		814																						
S12267+0		S12270+0	110	0	4214		5150		5150																						
N12270+0		N12275+0	3299	2316	25046		26274		32246																						
S12270+0		S12275+0	1943	1231	26094		29751		61997																						
N12275+0		N12280+0	531	17	10201		12207		74204																						
S12275+0		S12280+0	100	0	19677		13246		87450																						
N12280+0		N12285+0	9611	799	110	10073		77377																							
S12280+0		S12285+0	11152	3103	13	13463		63914																							
N12285+0		N12290+0	5102	4235	7999		581		64438																						
S12285+0		S12290+0	2220	1867	16086		17189		81530																						
N12290+0		N12295+0	0	0	18996		18120		166058																						
S12290+0		S12295+0	0	0	19072		23940		123698																						
N12295+0		N12300+0	2394	0	1679	795	123103		134676																						
S12295+0		S12300+0	420	0	9594		11573		134676																						
N12300+0		N12305+0	2676	0	5136		37041		138420																						
S12300+0		S12305+0	0	0	34310		42988		181318																						
N12305+0		N12310+0	523	0	27743		30156		215874																						
S12305+0		S12310+0	1787	0	26038		23251		238765																						
N12310+0		N12315+0	794	0	20568		25290		263895																						
S12310+0		S12315+0	231	0	22595		28813		291818																						
N12315+0		N12320+0	72064	0	226	71776		220039																							
S12315+0		S12320+0	104332	0	341	163918		116125																							
N12320+0		N12325+0	54620	0	10650	41296		74829																							
S12320+0		S12325+0	17394	0	23975		12575		87494																						
N12325+0		N12330+0	0	0	60373		75066		162870																						
S12325+0		S12330+0	20	0	41568		51940		214810																						
N12330+0		N12335+0	0	6	14339		17924		232734																						
S12330+0		S12335+0	16	0	13910		16247		248991																						
N12335+0		N12340+0	13579	0	5753	6308		282593																							
S12335+0		S12340+0	11790	0	10184		940		243533																						
N12340+0		N12345+0	15370	0	0	15370		228163																							
S12340+0		S12345+0	14689	0	25	14658		213505																							
N12345+0		N12350+0	47	0	2757		3399		216904																						
S12345+0		S12350+0	192	0	2011		2412		219316																						
N12350+0		N12355+0	0	0	6502		8120		227444																						
S12350+0		S12355+0	0	0	4772		5965		233409																						
		SUBTOTAL	348270	13572	473483																										
T.R. #23		5+0	171		3652		4394																								
		5+0	10+0	0	23022		29778																								
		10+0	15+0	0	13968		16935																								
		15+0	18+50	261		2946		3422																							
DRIVES																															
			34702	13572	517876		277845		566541																						
																		</													

NORTH BOUND

FINAL EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

NORTH BOUND														SOUTH BOUND																		
TOTAL EXCAV. EARTH & ROCK				ROCK		EMBANKMENT		EXCESS ROCK		5%		ROCK BORROW		EARTH BORROW		TOTAL EXCAV. EARTH & ROCK				ROCK		EMBANKMENT		EXCESS ROCK		5%		ROCK BORROW		EARTH BORROW		
STATION	DIST	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	STATION	DIST	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	
2285	30	7.3	12.97	176	56.8			84	15.2	28	12.4	3	11	2305	0	444	44.3															
2286	50	6.6	11.44	52	8.8			80	24	44	200	27	36	2306	50	14	4.3															
2287	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2307	50	0	0															
2288	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2308	50	0	0															
2289	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2309	50	0	0															
2290	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2310	50	0	0															
2291	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2311	50	0	0															
2292	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2312	50	0	0															
2293	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2313	50	0	0															
2294	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2314	50	0	0															
2295	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2315	50	0	0															
2296	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2316	50	0	0															
2297	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2317	50	0	0															
2298	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2318	50	0	0															
2299	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2319	50	0	0															
2300	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2320	50	0	0															
2301	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2321	50	0	0															
2302	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2322	50	0	0															
2303	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2323	50	0	0															
2304	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2324	50	0	0															
2305	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2325	50	0	0															
2306	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2326	50	0	0															
2307	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2327	50	0	0															
2308	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2328	50	0	0															
2309	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2329	50	0	0															
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2311	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2331	50	0	0															
2312	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2332	50	0	0															
2313	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2333	50	0	0															
2314	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2334	50	0	0															
2315	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2335	50	0	0															
2316	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2336	50	0	0															
2317	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2337	50	0	0															
2318	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2338	50	0	0															
2319	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2339	50	0	0															
2320	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2340	50	0	0															
2321	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2341	50	0	0															
2322	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2342	50	0	0															
2323	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2343	50	0	0															
2324	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2344	50	0	0															
2325	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2345	50	0	0															
2326	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2346	50	0	0															
2327	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2347	50	0	0															
2328	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2348	50	0	0															
2329	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2349	50	0	0															
2330	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2350	50	0	0															
2331	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2351	50	0	0															
2332	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2352	50	0	0															
2333	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2353	50	0	0															
2334	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2354	50	0	0															
2335	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2355	50	0	0															
2336	50	4.0	9.35	440	40.3			73	18	267	45	162	0	2356	50	0	0															

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

Colchester
I 89-3 (19) Cont. 1

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

Colchester
I 89-3 (19) Cont.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

Town Road # 23

$$\begin{array}{r} 1049 \\ 10963 \\ \hline 12012 \end{array}$$

VERMONT
F HIGHWAYS

Design Error - change slope & did not
change quantities

Same as above

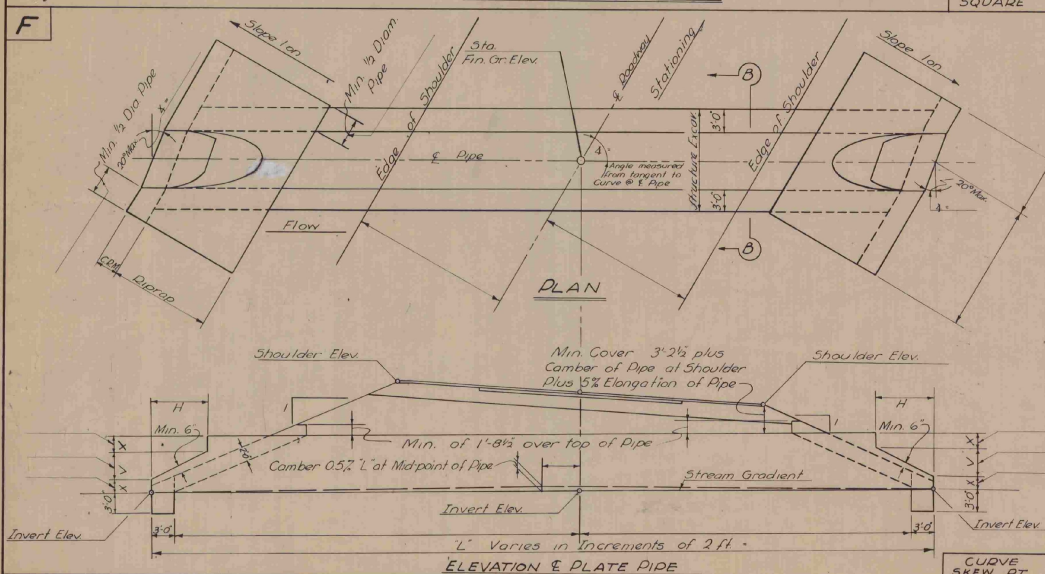
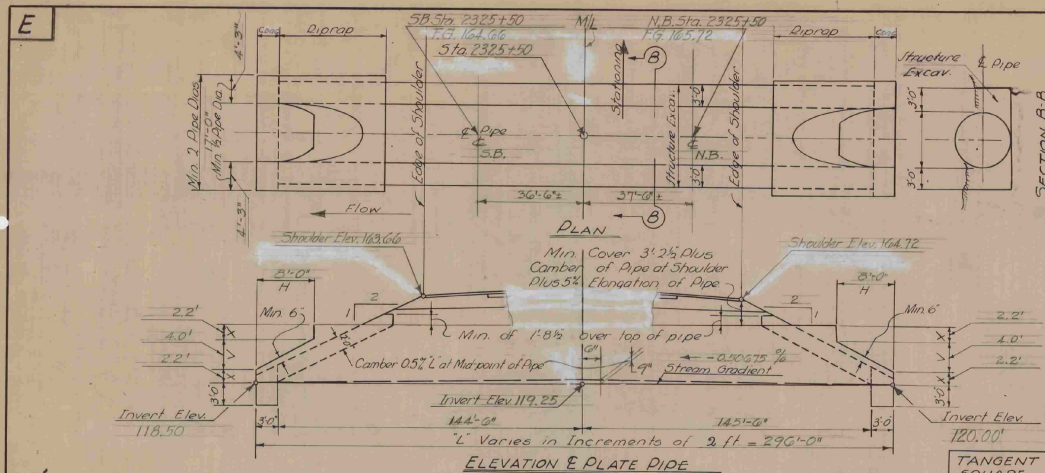
Design Error 3700 cu³
Excavation

Raise grade decrease
Excavation on TE #23

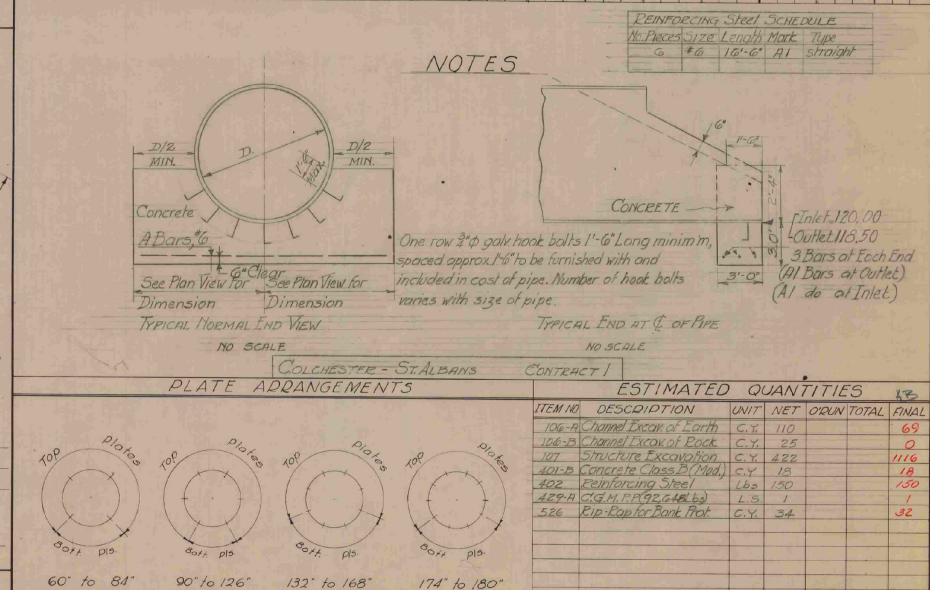
Bridge fill back Abandon
to ditch @ Interstate
omitted from design

T.R. #23
0+0

DRIVES
BRIDGE 1



WEIGHT & GAGE TABLE																															
HGT OF FILL		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			
Diam Inches	Area Sq. Ft.	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot	Ga Top/Bot	Wgt Top/Bot		
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	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	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	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	12	10	149
84	38	10	8	197	12	10	158	10	8	197	12	10	158	10	8	197	12	10	158	10	8	197	12	10	158	10	8	197	12	10	158
90	44	10	8	215	12	10	173	10	8	215	12	10	173	10	8	215	12	10	173	10	8	215	12	10	173	10	8	215	12	10	173
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	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	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	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	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	10	8	276
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	10	8	290
132	95	8	7	375	10	8	328	8	7	375	10	8	328	8	7	375	10	8	328	8	7	375	10	8	328	8	7	375	10	8	328
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	10	8	338
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	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	8	7	420
156	133	7	5	496	8	7	436	7	5	496	8	7	436	7	5	496	8	7	436	7	5	496	8	7	436	7	5	496	8	7	436
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	8	7	450
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	8	7	464
174	165	5	3	677	7	5	536	5	3	677	7	5	536	5	3	677	7	5	536	5	3	677	7	5	536	5	3	677	7	5	536
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	7	5	556



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

Drawn by:- G.E.H. Dec. 1958
Traced by:- H.W.S. Mar. 1959
Checked by:- R.I.B. Apr. 1959

CORRECT
APR 24 1959
BRIDGE ENGINEER

APPROVED
APR 29 1959
R.E. Baughman
CHIEF ENGINEER

DETAILS OF ROUND PLATE PIPE

Sheet 2 of 2 for details "E & F"
Sheet 1 of 2 for details "A, B, C, & D"

USE DETAIL "E" FOR THIS PIPE

Use Section "B-B", Detail "E", for all pipes.

DIA. OF PIPE - 102"
O.A. LENGTH - 296'-0"
TOTAL WEIGHT - 92,643 LB.

GAGE TOP R_s 7 GAGE BOT R_s 5
CAMBER - 9"±

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SB-PP #2

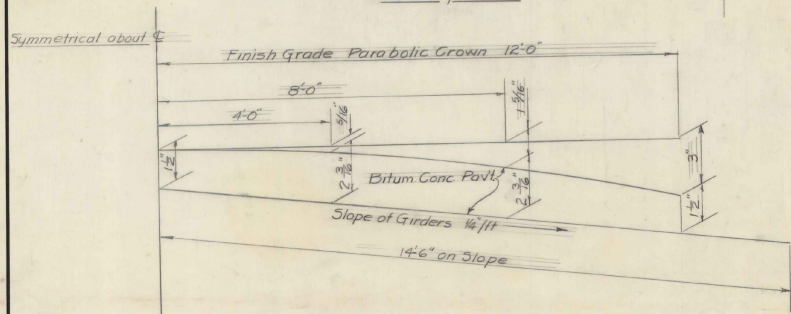
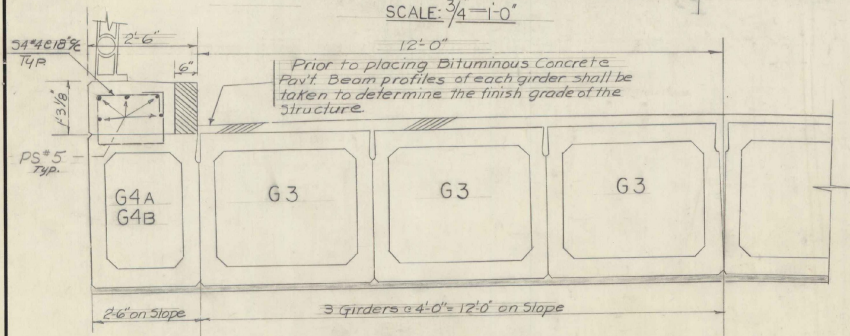
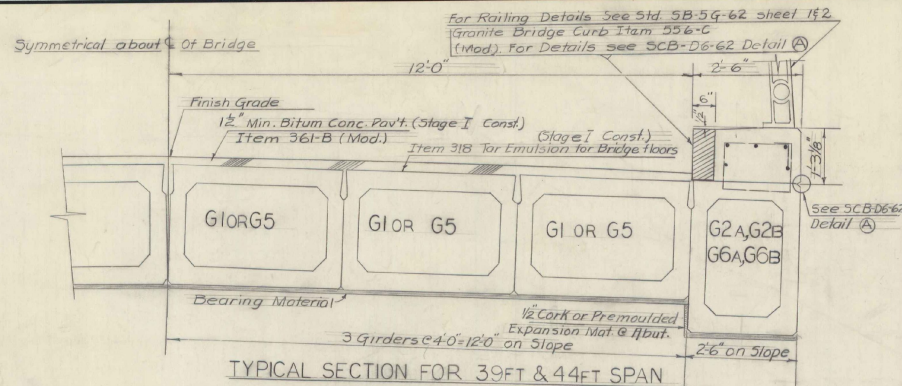
TOWN OF COLCHESTER
ROUTE NO. 129-3(9) STA 2325+50

SURVEYED BY E. J. J. J.

COMPLETED BY E. J. J. J. CHECKED BY E. J. J. J.

PROJECT NO. 129-3(12) 21

SHEET 68 OF 265



GENERAL NOTES

- SEE GENERAL NOTES ON STANDARD SHEET SCB-D1-62
 - THE DESIGN LOADING IS H-15-S12-44, IN ACCORDANCE WITH THE AASHTO SPECIFICATION FOR HIGHWAY BRIDGES, DATED 1961.
 - THE MAXIMUM DESIGN FLE LOAD IS 20 TONS PER FLE.
- GENERAL NOTES - ALTERNATE A (PRESTRESSED SUPERSTRUCTURE)
- FABRICATION AND INSPECTION PROCEDURES FOR THE PRECAST MEMBERS SHALL CONFORM WITH THE "MANUAL FOR INSPECTION OF PRECAST CONCRETE" AS PREPARED BY THE JOINT A A S H O AND P C I COMMITTEE AND PUBLISHED IN 1963.
 - SHOULD THE CONTRACTOR PROPOSE A PRESTRESSED CONCRETE SECTION (ITEM 409) THAT IS DIFFERENT IN DEPTH OR SHAPE FROM THOSE SHOWN ON THE PLANS IT SHALL BE SUBJECT TO THE APPROVAL OF THE BRIDGE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY NECESSARY ADJUSTMENTS TO THE PLANS RESULTING FROM THE SELECTION OF A SECTION OTHER THAN THOSE INDICATED.
 - ALL BEARING PADS SHALL BE OF THE ELASTOMERIC TYPE CONFORMING TO THE REQUIREMENTS SPECIFIED UNDER SECTION 1, ARTICLE 1, E-47. EXPANSION BEARINGS OF THE AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1961. PAYMENT FOR THE BEARING PADS SHALL BE INCLUDED IN THE UNIT PRICE DID FOR THE PRESTRESSED CONCRETE MEMBERS - ITEM 409.
 - THE TOP SURFACE OF THE BEAMS SHALL BE GIVEN A BROOM FINISH - NORMAL TO THE CENTER LINE OF THE ROADWAY.
 - THE END POSTS ABOVE THE LOW BEAM SEATS SHALL NOT BE POURED UNTIL THE SUPERSTRUCTURE HAS BEEN PLACED.
 - THE 54-A2 CURB BARS SHALL BE FURNISHED WITH THE APPROPRIATE PRESTRESSED CONCRETE MEMBERS AND SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 409.
- THE CONTRACTOR SHALL SUBMIT SIX(6) COMPLETE SETS OF PLANS OF ALL DETAILS INCLUDING DESIGN OF THE WILD STEEL REINFORCEMENT IN ACCORDANCE WITH ITEM 409 SECTION 409.03.

GENERAL NOTES - ALTERNATE "B" (WF BEAM SUPERSTRUCTURE)

- ALL DIAPHRAGMS SHALL BE 18" x 42 1/2". FOR DETAILS SEE STANDARD SHEET SCB-D2-62.
 - THE TOP SURFACE OF ALL PIERS AND ABUTMENTS SHALL BE TREATED AS INDICATED ON SCB-D1-62.
 - THE 1A601, 1A602, 2A601, & 2A602 BARS SHALL BE CUT IN THE FIELD TO FIT THE SKEN ENDS.
 - ALL STRUCTURAL STEEL IN STRINGERS AND DIAPHRAGMS SHALL BE ASTM - A36
- note: Two additional #5 bars installed at 2' from top of safety walk during Const. AS

LIST OF BRIDGE SHEETS

GENERAL NOTES & TYPICAL PRESTRESSED SECTIONS	BR 1 OF 27
BRIDGE QUANTITY SHEET	BR 2 OF 27
PLAN & ELEVATION	BR 3 OF 27
PRELIMINARY INFORMATION SHEET	BR 4 OF 27
BORING SHEET	BR 5 OF 27
PLAN OF PRESTRESSED DECK	BR 6 OF 27
DETAILS OF PRESTRESSED GIRDERS	BR 7 TO 10 OF 27
ABUTMENT NOS. 1 & 2	BR 11 OF 27
PIER DETAILS - ALTERNATE A & B	BR 12 TO BR 13 OF 27
FRAMING PLAN ALTERNATE B-RAILING & CURB DETAIL	BR 14 OF 27
REINFORCING STEEL SCHEDULE ALTERNATE A & B	BR 15 OF 27
SCB-D1-62. GENERAL INFORMATION & GENERAL NOTES	BR 16 OF 27
SCB-D2-62. SHEAR CONNECTIONS & HAUNCH DETAILS	BR 17 OF 27
SCB-D3-62. PIER EXPANSION PLATES & DRAIN TROUGH DETAILS	BR 18 OF 27
SCB-D4-62. PLAN & REINFORCEMENT LAYOUT AT ABUTMENTS	BR 19 OF 27
SCB-D5-62. PLAN & REINFORCEMENT LAYOUT AT PIER	BR 20 OF 27
SCB-D6-62. DETAILS OF STEEL SHOE FOR TIMBER PILES & CURRING (A) & (B)	BR 21 OF 27
SCB-D7-62. DETAILS OF WF BEAMS	BR 22 OF 27
SCB-D8-62. BEARING DEVICES	BR 23 OF 27
SCB-D9-62. CURTAIN WALL AT BEARING DEVICES - DETAIL (A)	BR 24 OF 27
SCB-D2-62. 24" ROADWAY - BRIDGE STANDARD	BR 25 OF 27
SB-5G-62. BRIDGE RAILING (SHEETS 1 AND 2)	BR 26 TO 27 OF 27

REFERENCE SHEETS

PLAN AND PROFILE OF INTERSTATE 89	SHEET NOS. 28 & 29
PLAN AND PROFILE OF T.R. #23	SHEET NO. 30
INTERSTATE 1 & 89 SECTIONS	SHEET NOS. 149, 150 & 152
TOWN ROAD #23 SECTIONS	SHEET NOS. 155, 156 & 157

Stage I Construction

BR.1 OF 27

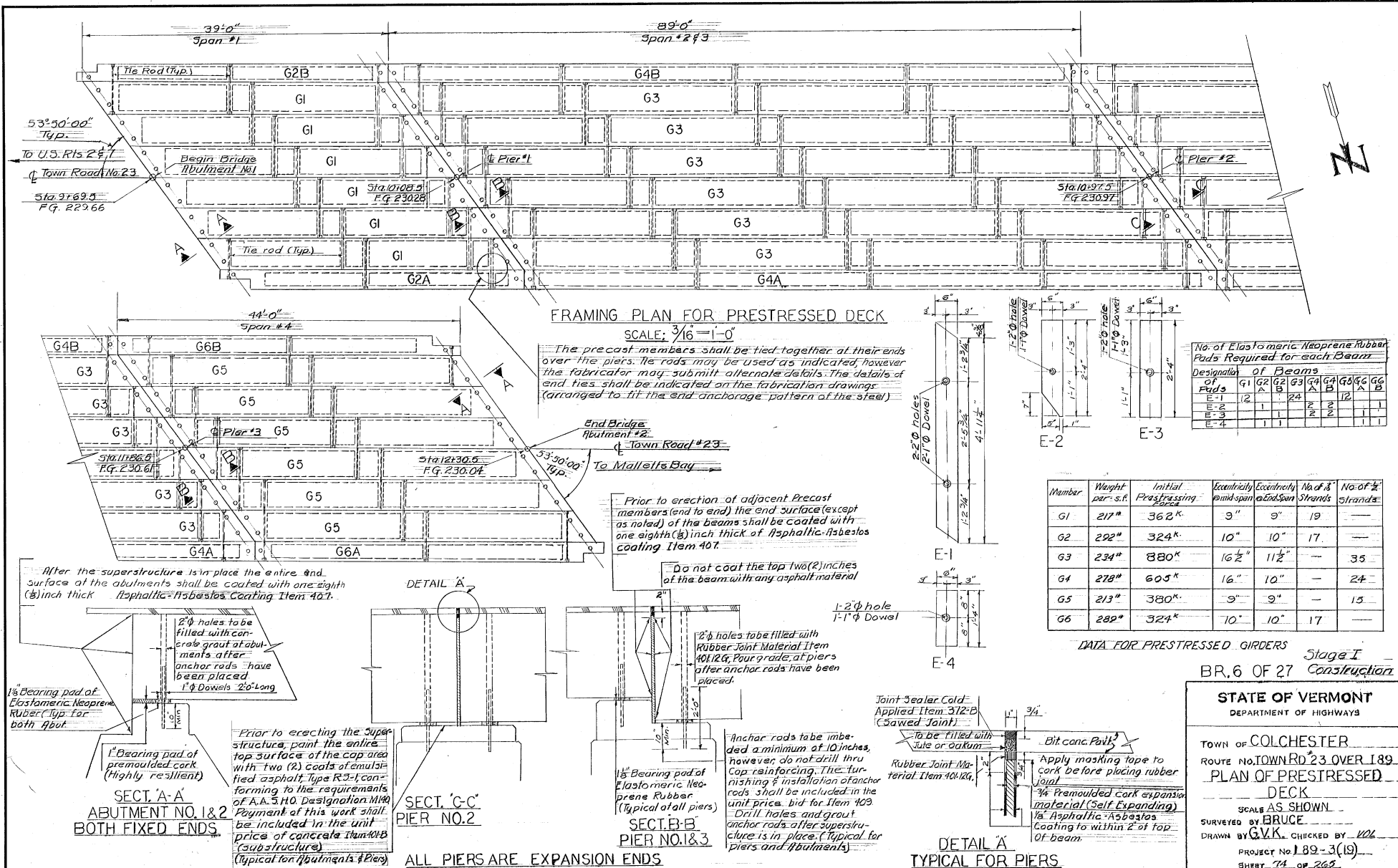
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

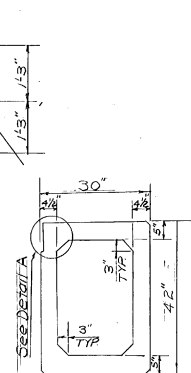
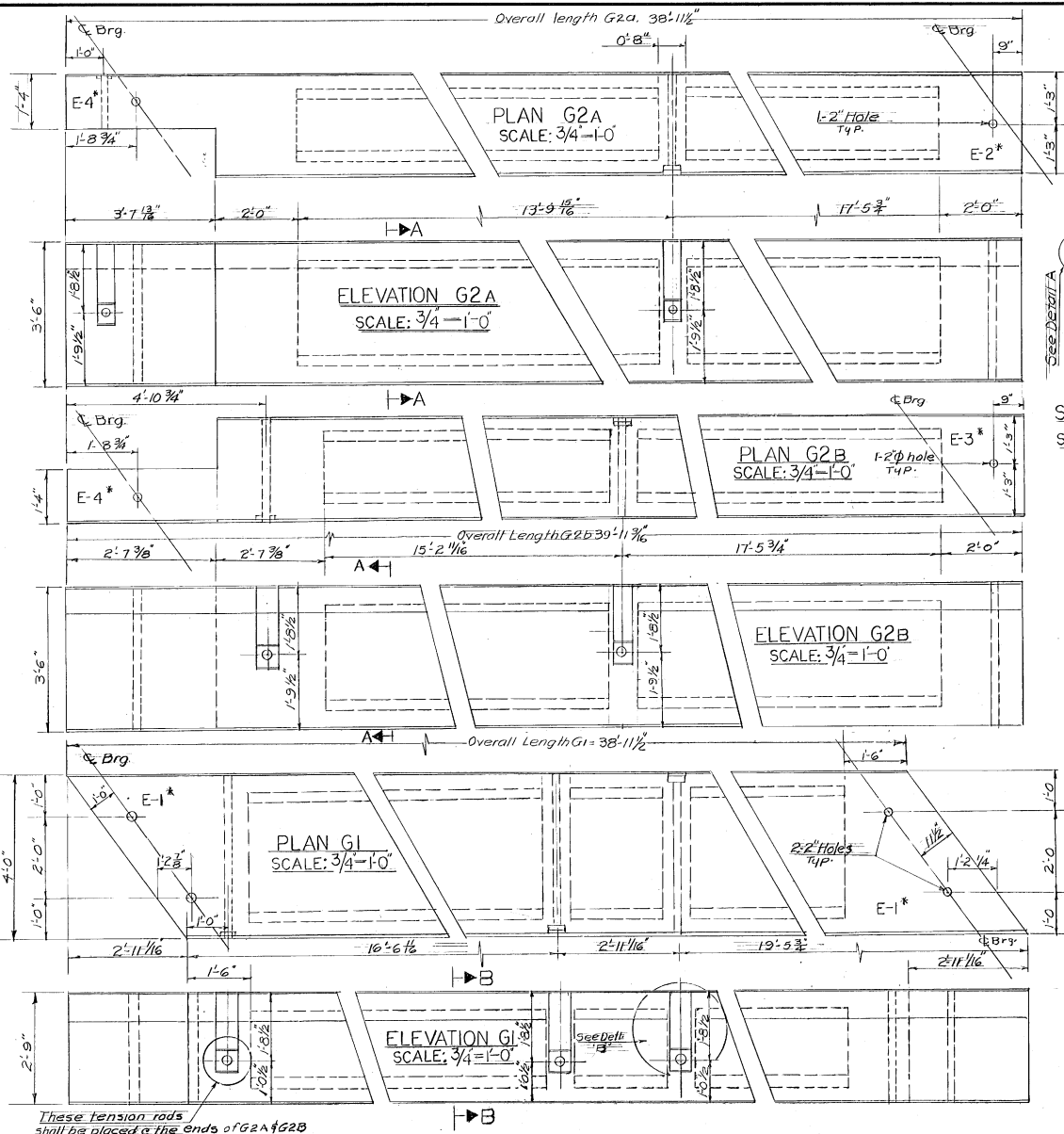
TOWN OF COLCHESTER
ROUTE No. TOWN RD. #23 OVER I-89
PRESTRESSED TYPICAL
SECTION
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G.V.K. CHECKED BY VCK
PROJECT NO. 189-3(19)
SHEET 63 OF 265

CONT. NO. 1

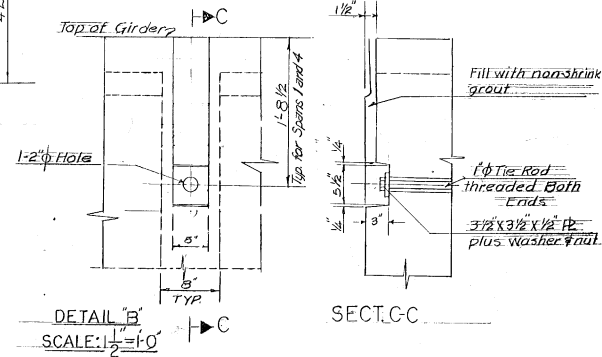
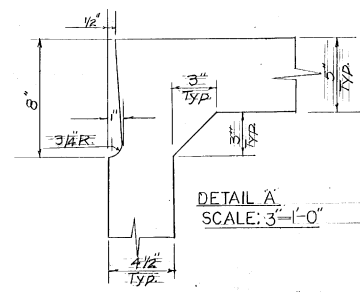
QUANTITY BREAKDOWN														
NO.	ITEM	UNIT	SUPER-STRUCT.	ABUT. No. 1	PIER No. 1	PIER No. 2	PIER No. 3	ABUT. No. 2				TOTAL		12
Common to Alternate A & B														
107	Structure Excavation	C.Y.		13	21	21	32	13				100		123
204	Sub-base of Crushed Rock (Mod.) under Structure	C.Y.										62		121
222	Gravel Backfill	C.Y.		10				10				20		0
* 318	Tar Emulsion for Bridge Floors	GAL	279									279		330
312-B	Joint Sealer Cold Applied	L.F.	90									90		0
404A	Concrete Class "AA" (Modified)	C.Y.		—	29	29	29	—				87		109
404-B	Concrete Class "B" (Modified)	C.Y.		40	52	52	52	40				236		237
402	Reinforcing Steel	L.B.		1950	17530	17530	17530	1930				56530		57221
501	Furnishing Equip. for Driving Piles	L.S.										1		1
502-B	Treated Timber Piling	L.F.		1040	1920	2280	1920	1040				8200		9672
556-C	Granite Bridge Curb (Mod.)	L.F.	526									526		526
572	Bridge Railing	L.F.	508									508		508
Prestressed Superstructure Alternate "A"														
* 361-B	Bit. Conc. Pavt. (Mod.) Dense Graded Top Course	Ton	92									92		
404A	Concrete Class "AA" (Modified)	C.Y.	45	—	6	4	6	—				61		
404-B	Concrete Class "B" (Modified)	C.Y.	—	3				3				6		
402	Reinforcing Steel	L.B.	2860		590	550	590					4490		
407	Asphaltic Asbestos Coating 1/8" Thick	S.Y.	102									102		
409	Prestressed Concrete members (30" wide by 42" deep by 39' long)	EA	2									2		
409	Prestressed Concrete members (48" wide by 33" deep by 39' long)	EA	6									6		
409	Prestressed Concrete members (30" wide by 42" deep by 49' long)	EA	4									4		
409	Prestressed Concrete members (48" wide by 42" deep by 89' long)	EA	12									12		
409	Prestressed Concrete members (30" wide by 42" deep by 44' long)	EA	2									2		
409	Prestressed Concrete members (48" wide by 33" deep by 44' long)	EA	6									6		
WF Beam Superstructure Alternate "B"														
* 361-B	Bit. Conc. Pavt. (Mod.) Dense Graded Top Course	Ton	69									69		68
404A	Concrete Class "AA" (Modified)	C.Y.	257	—	1	2	2	—				260		249
404-B	Concrete Class "B" (Modified)	C.Y.	1	1	150	150	150	1				550		55,740
402	Reinforcing Steel	L.B.	54610											
403	Spiral Reinforcement (3800#)	L.S.	1									1		1
404A	Structural Steel	L.B.	251,400									251,400		252,111
407	Asphaltic Asbestos Coating	S.Y.		4	16	16	16	4				56		56
* These items to be performed under Stage I Construction and to be included in Roadway Estimates.														

BRIDGE(S) AT STATION(S) 9+69.5 TO 12+30.5 COLCHESTER PROJECT NO. 1-89-3(19)
 LOCATION(S) TOWN RD.NO. 23 OVER INTERSTATE Stage 1 Const BR. 2 OF 27 SHEET NO. 70 OF 265

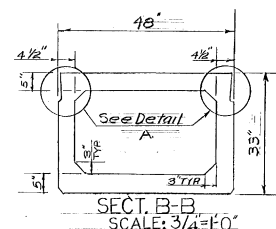




SECT. A-A
SCALE: 3/4"=1'-0"



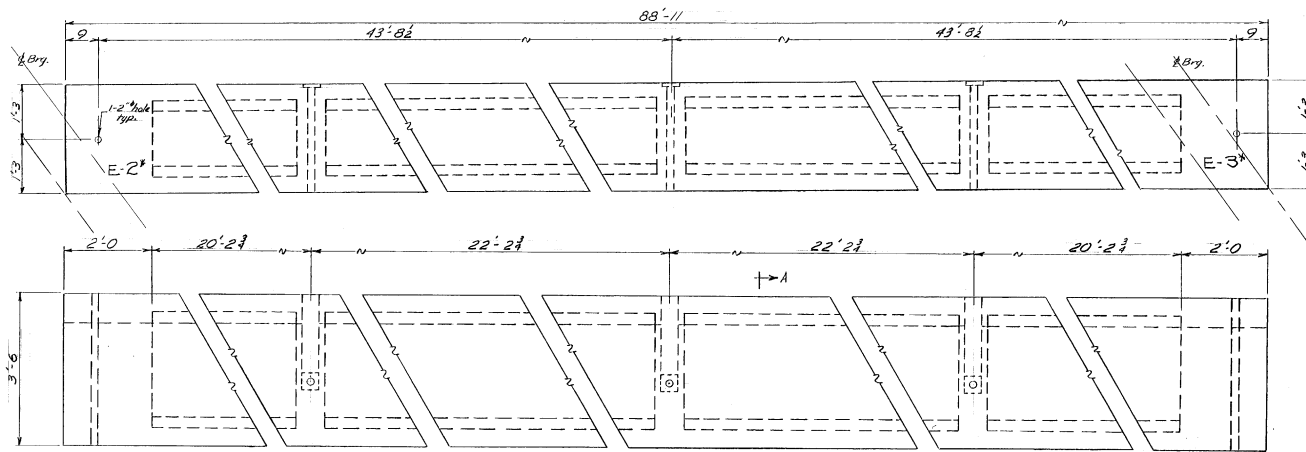
* Designates the type of Bearing pad



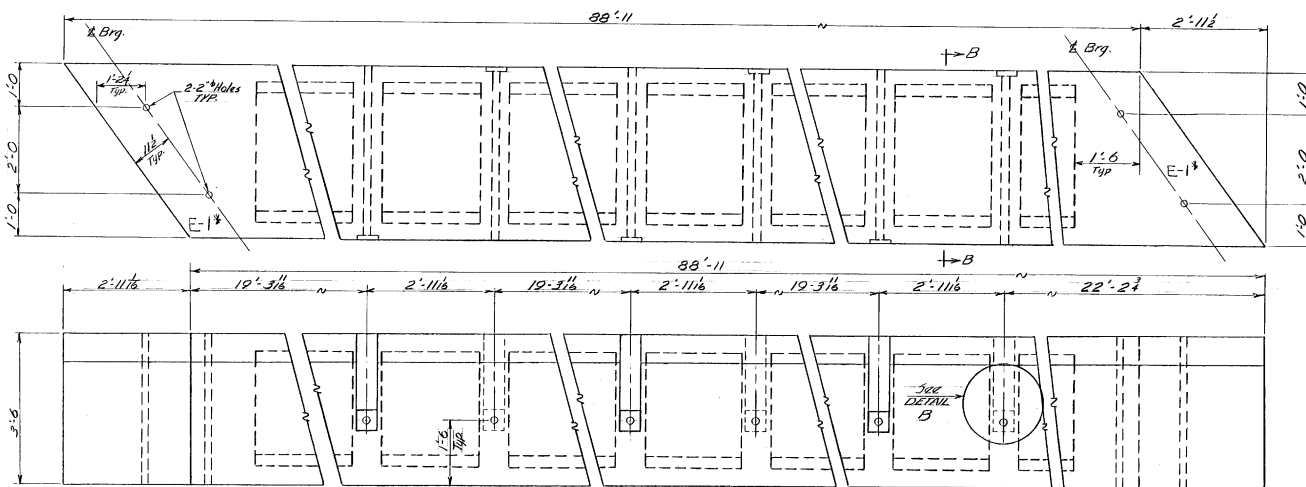
Stage I Construction
BR 7 OF 27

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
TOWN OF COLCHESTER	
ROUTE No. TOWN RD. 23 OVER INT.	
DETAILS OF PRESTRESSED GIRDERS FOR SPAN NO. 1	
SCALE AS SHOWN	
SURVEYED BY BRUCE	
DRAWN BY G.V.K. CHECKED BY VOL	
PROJECT No. L89-3(19)	
SHEET 23 OF 265	

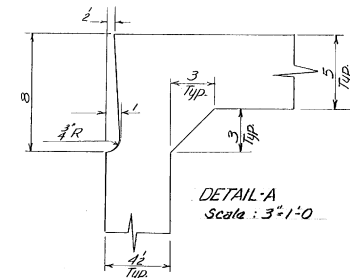
CONT. NO. 1



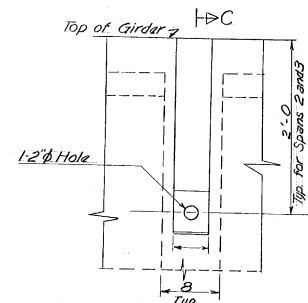
Plan and Elevation of G4a & G4b
4 Req'd.



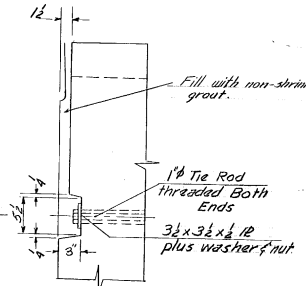
Plan and Elevation of G3
12 Req'd.



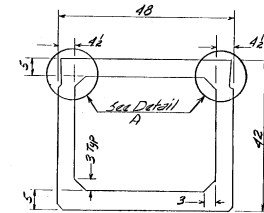
DETAIL A
Scale: 3/4" = 1'-0"



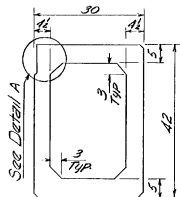
DETAIL B
Scale: 1/2" = 1'-0"



SECTION C-C



SECTION A-A
Scale 3/4" = 1'-0"



SECTION B-B
Scale 3/4" = 1'-0"

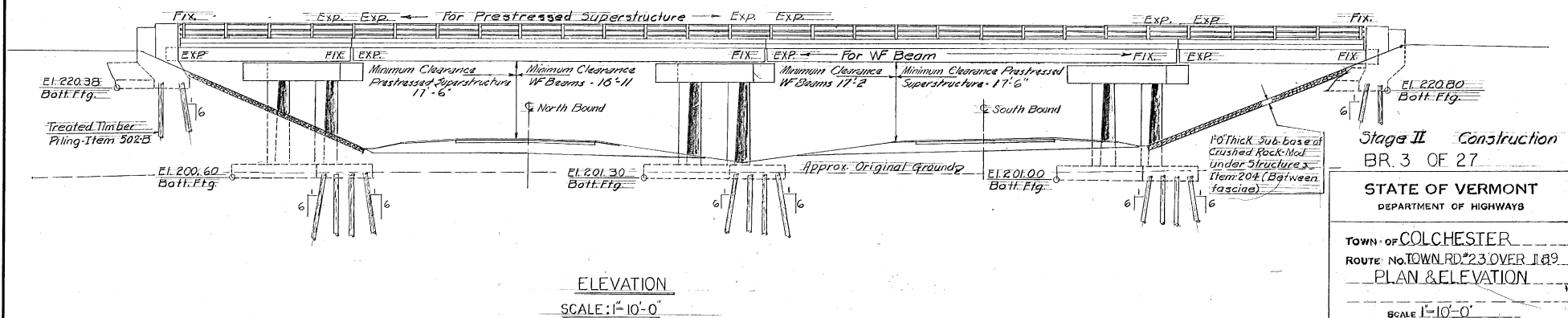
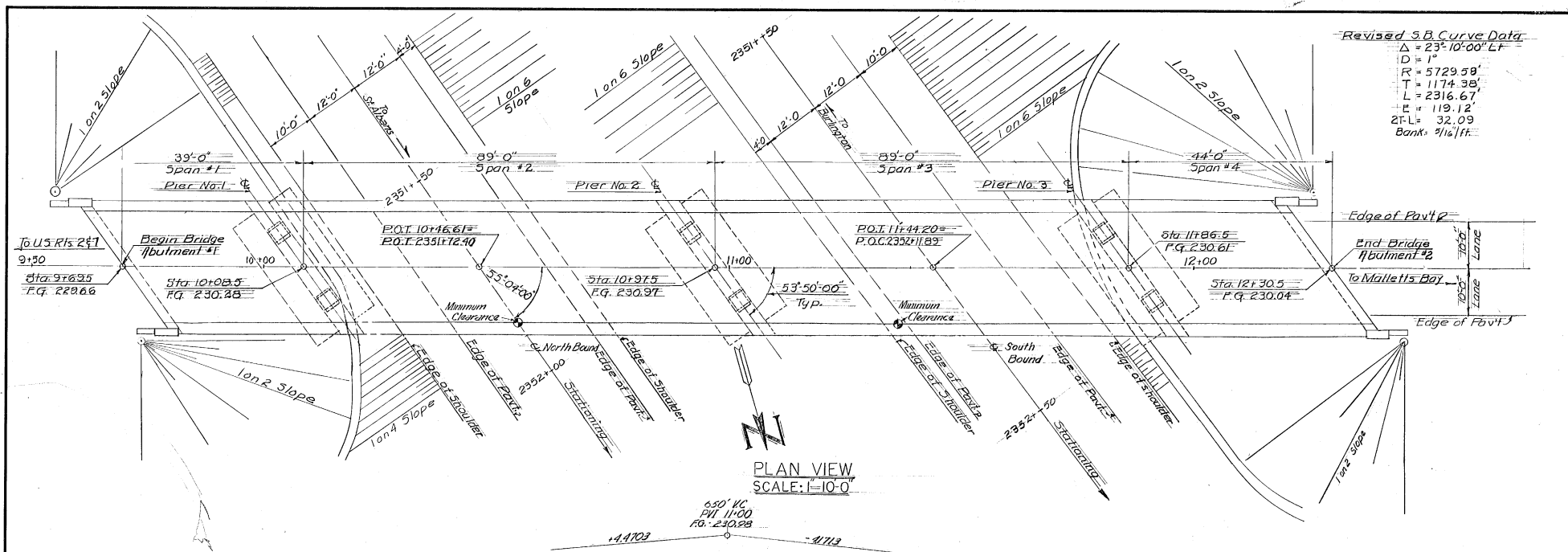
Stage I
BR 8 OF 27 Construction

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE NO. TOWN RD. 23 over I 89
DETAILS OF PRESTRESSED
GIRDERS FOR SPANS 24.3
SCALE AS SHOWN
SURVEYED BY: BRUCE
DRAWN BY: VOL. CHECKED BY: G. V. K.
PROJECT NO. 189-3(19)
SHEET 16 OF 265

* Designates the type of bearing pad

CONT. NO. 1



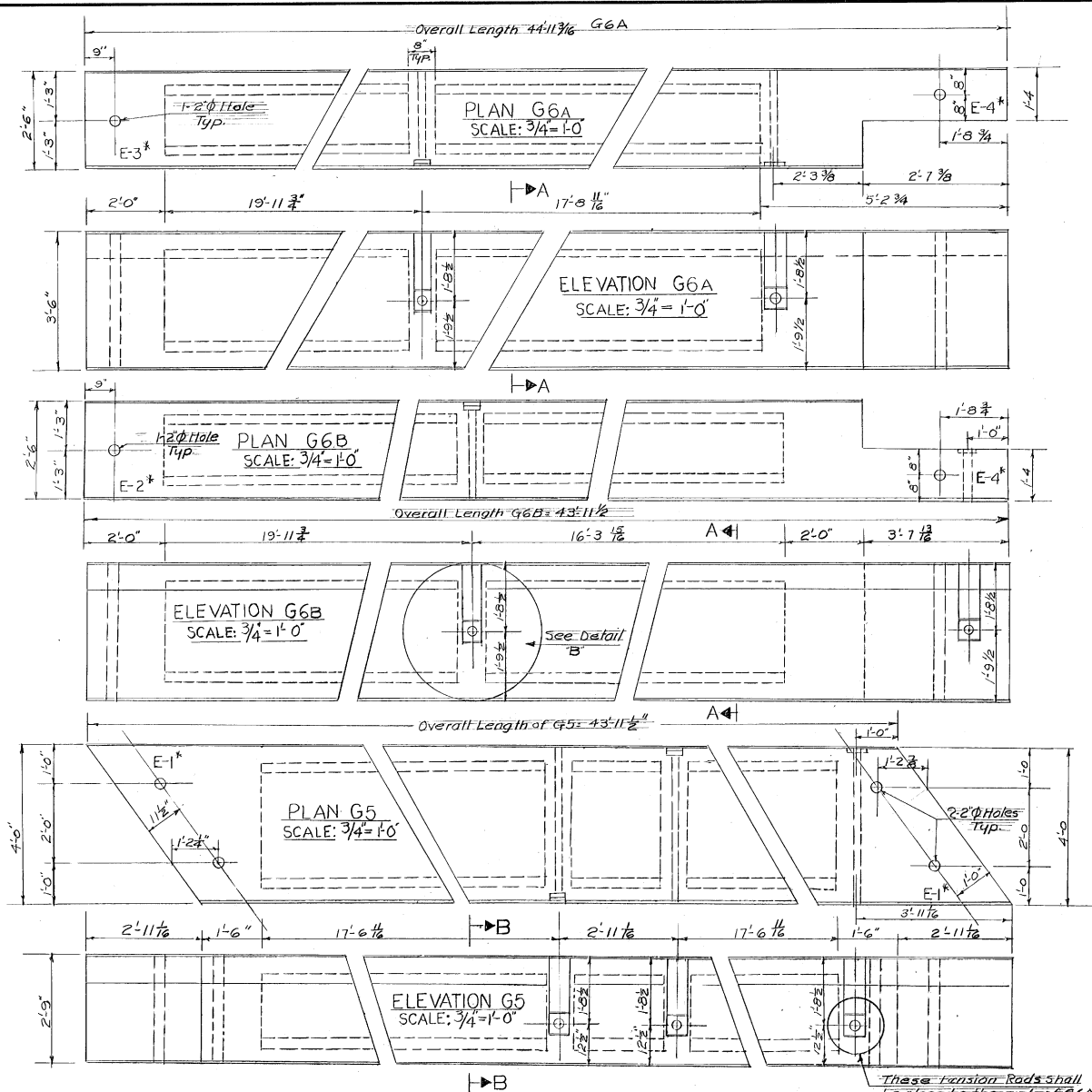
Stage II Construction
 BR. 3 OF 27

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
 ROUTE No. TOWN RD #23 OVER I-89
 PLAN & ELEVATION

SCALE 1"=10'-0"
 SURVEYED BY BRUCE
 DRAWN BY G.V.K. CHECKED BY KOL
 PROJECT NO. 189-3(29)
 SHEET 76 OF 268

CONF. NO. 1 # 71 (17)



- Notes
1. For General notes see BR.1 of 27
 2. For Details of Sect. 'A-A', 'B-B' and other details see BR.7 of 27
- * Designates the type for Bearing Pad

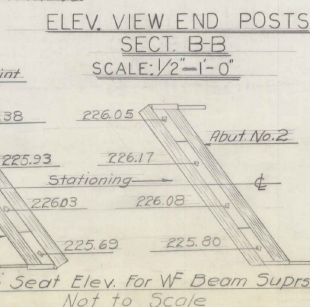
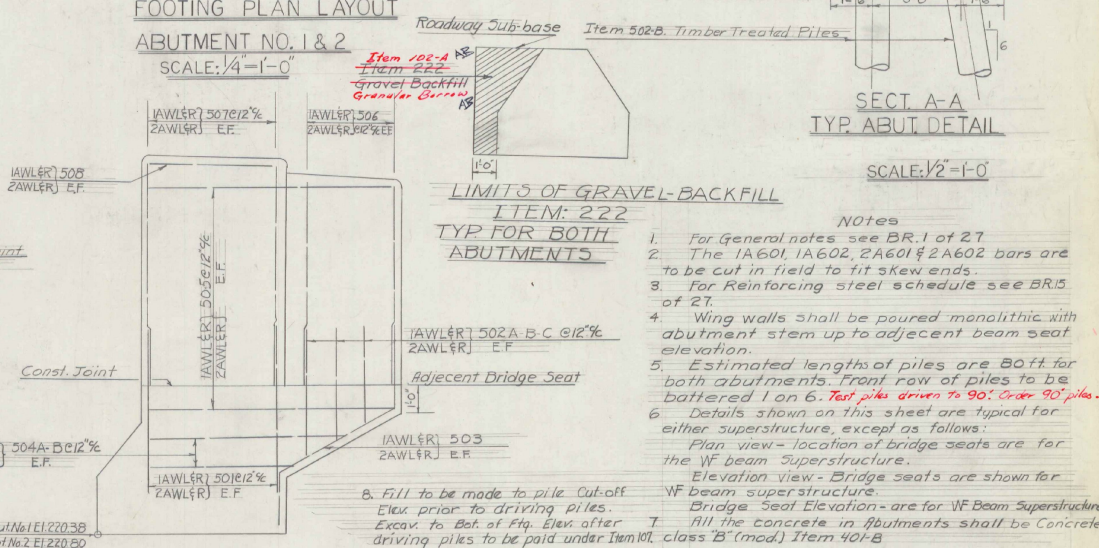
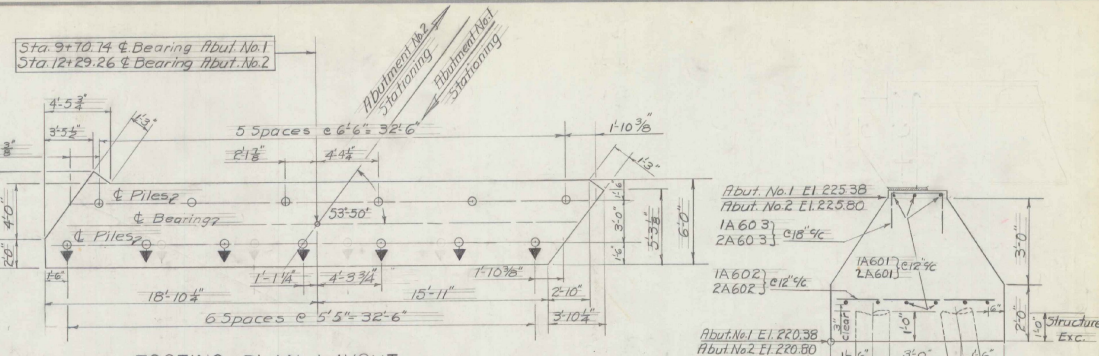
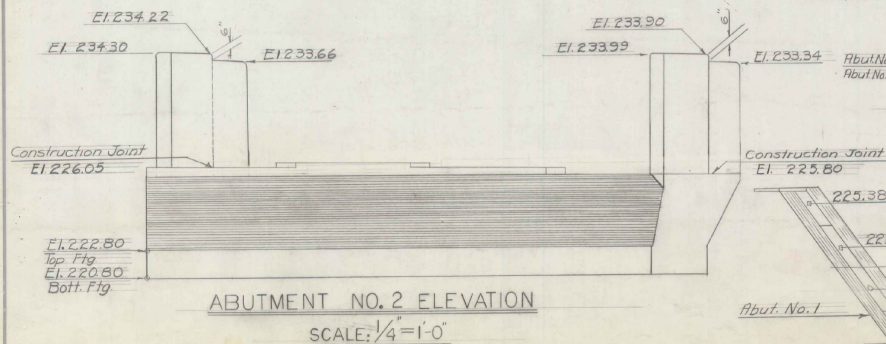
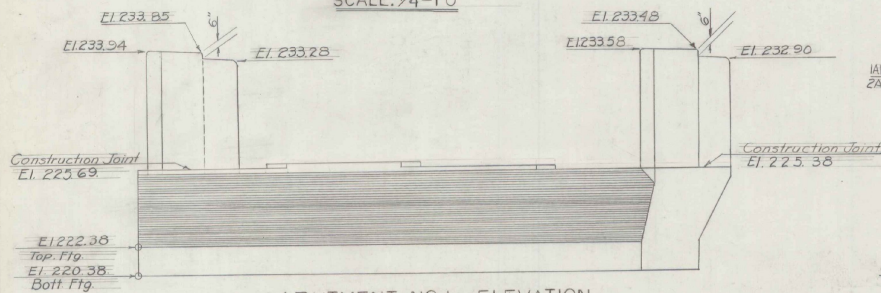
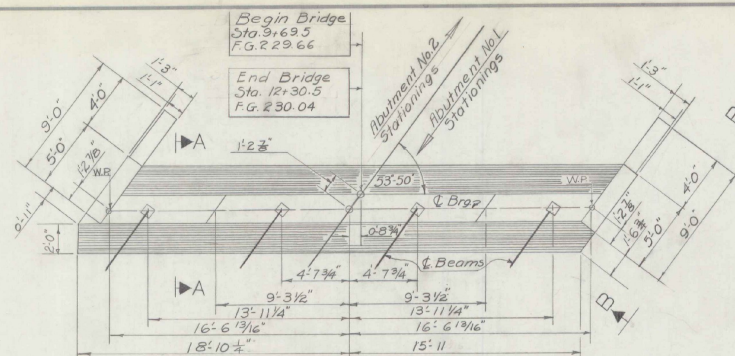
Stage I Construction

BR.9 OF 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE No. TOWN RD. 23 OVER INT.
DETAILS OF PRESTRESSED
GIRDERS FOR SPAN NO. 4
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G. V.K. CHECKED BY KAL
PROJECT NO. 189-3(19)
SHEET 11 OF 20

CONT. NO. 1



See Sheet 2 of 27 for Final Quantities						
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	UNCLAS. 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.				
508	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

BR. 10 OF 27 Stage I Const.

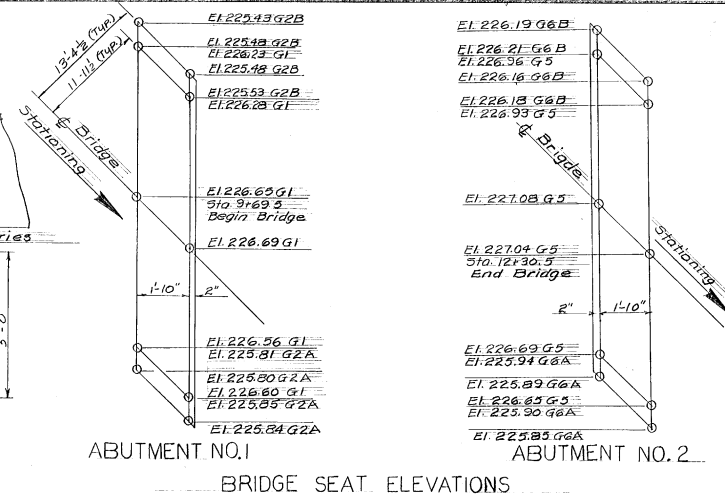
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE NO. TOWN RD. 23 OVER I89
ABUTMENT NO. 1 & 2, DETAILS FOR
W/BEAM SUPERSTRUCTURE
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G.V.K. CHECKED BY A.R.K.
PROJECT NO. 189-3(19)
SHEET 78 OF 265

ABUTMENT NO. 1 & 2
PLAN VIEW
SCALE: 1/4" = 1'-0"

ABUTMENT NO. 1 & 2. ELEVATION
SCALE: $\frac{1}{4}" = 1'-0"$

SECT. A A
TYP. ABUT. DETAIL
FOR PRESTRESSED SUPERSTRUCTURE
SCALE: 1/2" = 1'-0"



- Notes
1. For General notes See B.R. I of 27
 2. For additional dimensions & elevations, pile plan layout, and other details see Br. 10 of 27.
 3. The end posts above low bridge seat elev. shall not be poured until superstructure is in place.

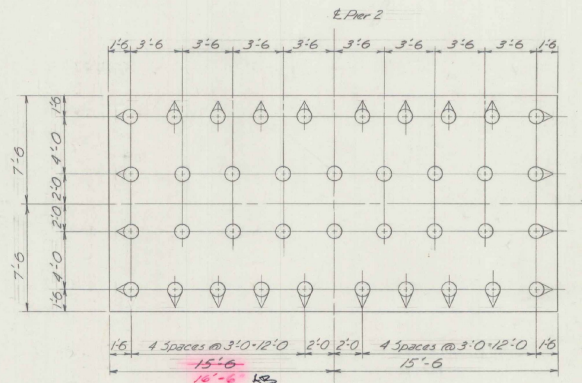
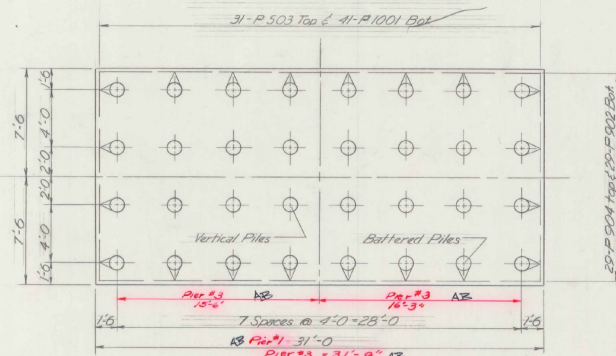
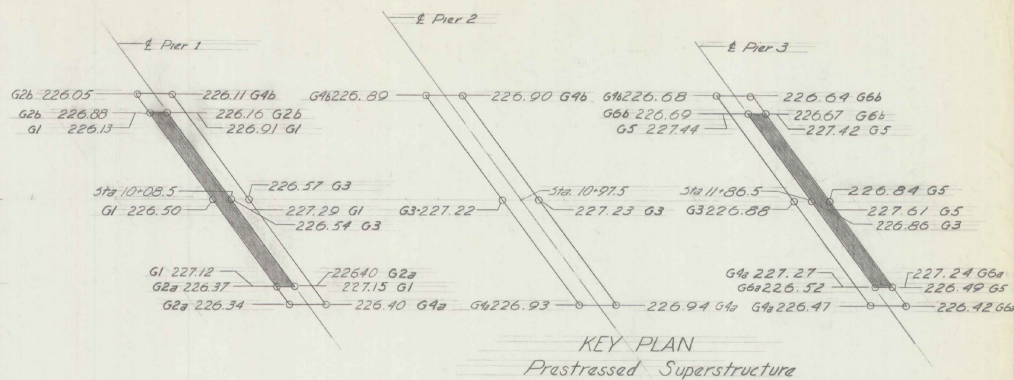
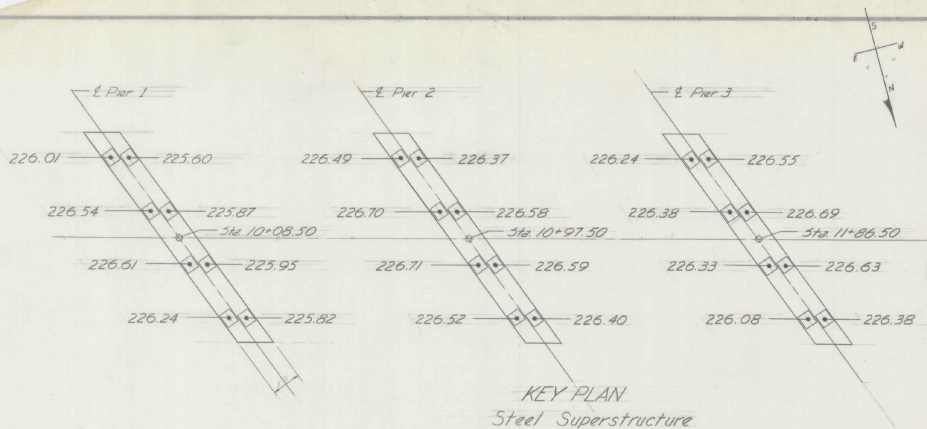
[illegible]

Stage I Construction
BR. 11 OF 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE No. TOWN ROAD #23 OVER I89
ABUTMENT NO 1 & 2 DETAILS FOR
PRESTRESSED SUPERSTRUCTURE
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G.V.K. CHECKED BY VOL
PROJECT NO. I89-3(19)
SHEET 79 OF 265

CONT. NO. 1



NOTES

1. For general notes see BR.1 of 27.
2. The estimated length of piles is 60' for all piers. All edge piles shall be battered away from the footing - 1 on 6.
3. The 14" superstructure expansion plates and drain troughs shall be as indicated on SCB-D3-62 - Type B (drain over the side of the pier cap).

Stage I Construction
BR.12 of 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

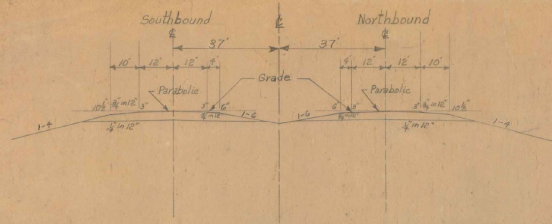
TOWN OF COLCHESTER
ROUTE No. 123 Over I-89
PIER DETAILS

SCALE AS SHOWN
SURVEYED BY:
DRAWN BY:
CHECKED BY: G.V.K.
PROJECT No. 188-3(3)
SHEET 80 OF 265

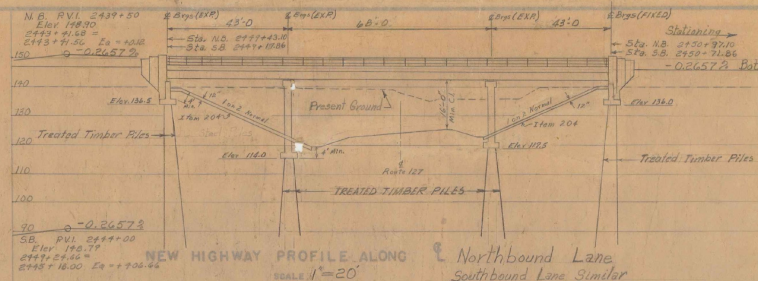
CONT. NO. 1

See Sheet 2 of 27 for Final Quantities

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 AGG. COATING	S. Y.				
902-B	TREATED TIMBER PILING	L. F.				
903	SPLICES FOR STEEL PILING	L. F.				
904	STEEL PILING	L. F.				
902-A	UNTREATED TIMBER PILING	L. F.				



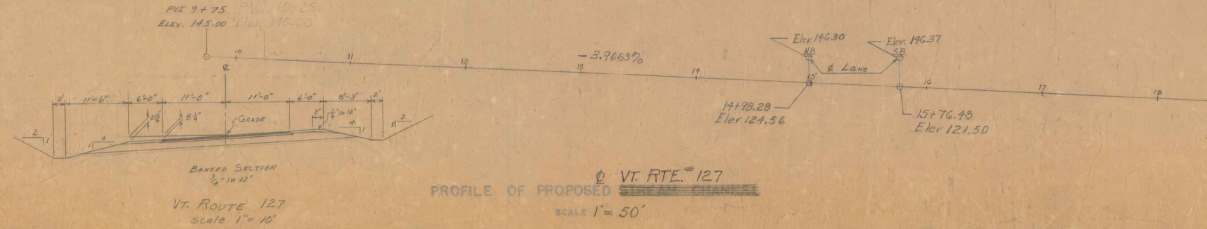
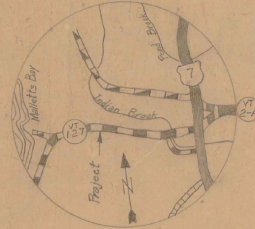
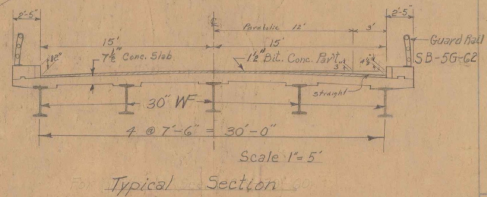
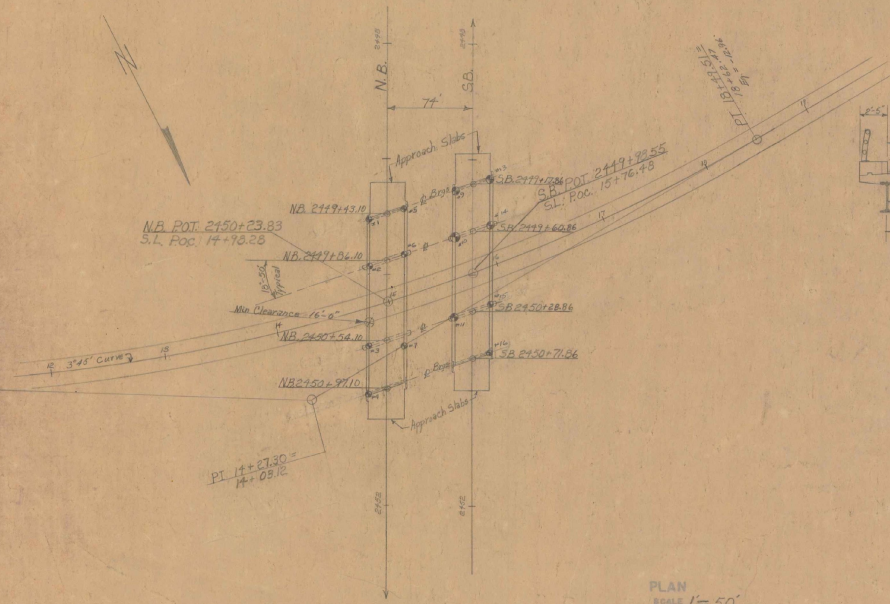
NEW HIGHWAY SECT. STA. 2440+00 TO STA. 2452+00
SCALE 1" = 20'



HIGHWAY NO. I 89 NAME OF HIGHWAY CHITTENDEN TOWN COLCHESTER
STRUCTURE NO. 189-3(5) LOCATION One mile west from the Intersection of U.S. Route 7 and Vt. Route 2A on Vt. Route 127
EXISTING STRUCTURE

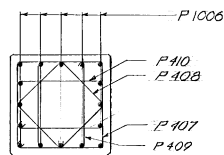
1. NATURE OF EXISTING STRUCTURE
2. TYPE OF EXISTING STRUCTURE
3. UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE
4. WHEN DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE
5. SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE
6. SHOULD NEW TEMPORARY STRUCTURE BE BUILT
7. BRIDGE OR HIGH WATER SURGE ELEV. AT EXISTING STRUCTURE
8. EXTREME HIGH WATER AT EXISTING STRUCTURE
9. SPAN OF EXISTING BRIDGE UPSTREAM
10. TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS
11. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE
12. IF NOT OF WHAT ELEVATION IS RELIEF PROVIDED
13. ADDITIONAL WATERWAY AREA PROVIDED

NEW STRUCTURE Continuous WF Beam (Noncomposite)
1. RECOMMENDED TYPE OF STRUCTURE
2. RECOMMENDED CLEAR SPAN ON SPANS 43'-0" - 65'-0" - 43'-0"
3. MEASURED PARALLEL TO NEW HIGHWAY
4. MEASURED AT RIGHT ANGLES TO NEW HIGHWAY
5. ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO
6. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE
7. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE
8. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE
9. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY
10. LOW WATER ELEVATION AT NEW STRUCTURE
11. DRAINAGE AREA IN ACRES ABOVE STRUCTURE
12. IS STREAM EVER DRY
13. VELOCITY OF STREAM AT HIGH WATER STAGE
14. AREA FULL OPENING
15. CHARACTER OF SCOUR
16. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE
17. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION
18. ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE
19. RECOMMENDED TYPE OF PAVEMENT
20. TRAFFIC TO BE MAINTAINED UNDER ITEM NO. 19
21. PROBABLE COST OF CLEARING AND BRUSHING STREAM CHANNEL AT STRUCTURE SITE
22. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES
23. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS



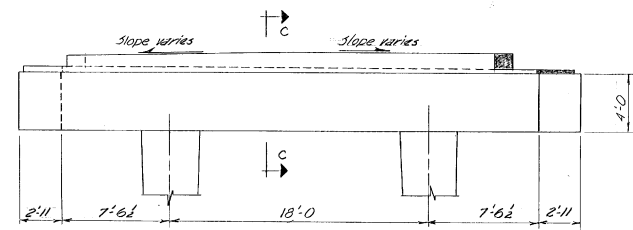
STAGE II CONSTR.
BR. SH. 4 OF 31

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
IN THE TOWN OF	
COLCHESTER	
ROUTE NO. <u>I 89</u> STA. <u>2450 ±</u>	
Interstate over Vt. Route 127	
Contract # <u>1</u>	
DESIGNED BY <u>Emery</u>	CHECKED BY <u>Emery</u>
DATE <u>10/12/40</u>	APPROVED FOR APPROVAL <u>ASST. CHIEF ENGINEER</u>
# <u>87</u> (19) 5/2	



PLAN (W/ Beams)
SCALE 1" = 1'-0"

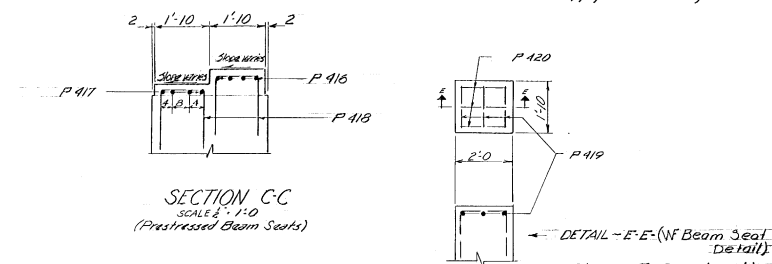
SECTION B-B
SCALE $\frac{1}{2}$ " = 1'-0"



PLAN (Prestressed Beams)
TYPICAL PIER NO 1

Elevation Section (Prestressed Beam Seats)

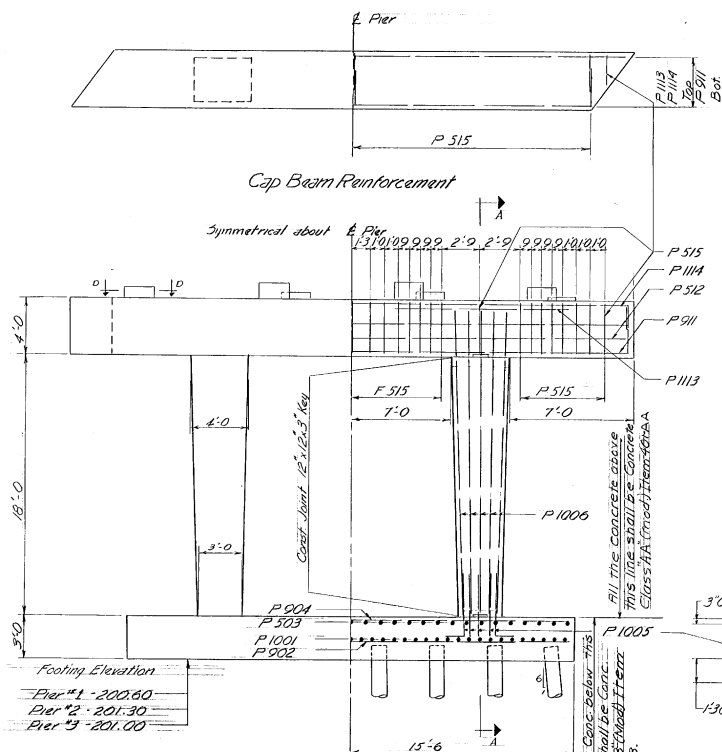
Note: Dimensions shown apply for both designs.



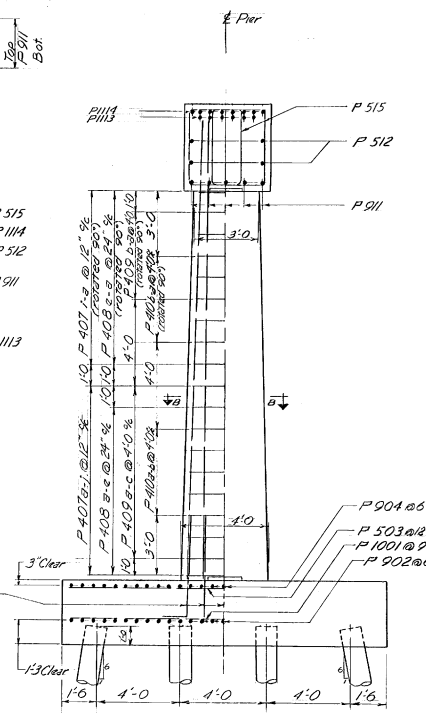
SECTION C-C
SCALE $\frac{1}{2}'' = 1'-0''$
(Prestressed Beam Seats)

SECTION D-D
SCALE 1/2" = 1'-0" BR.13 of 27

For notes see sheet - BR 1 of 27



ELEVATION
SCALE 1"=1'-0"



SECTION A-A
SCALE 3" = 1'-0"

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
105-A	CHAN. EXCAV. OF GARTH	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 ASD. COATING	S. Y.				
502-B	TREATED TIMBER PILING	L. F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L. F.				
902-A	UNTREATED TIMBER PILING	L. F.				

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

BRIDGE - ST. BR.

TOWN OF COLCHESTER

ROUTE NO. I.R. 23 over I-89

PIER DETAILS - 1, 2 & 3

PRESTRESSED CONCRETE BEAM

SCALE AS SHOWN

SURVEYED BY _____

DRAWN BY WOL CHECKED BY G.V.K. 11/8

PROJECT NO. 1-89-3(5)

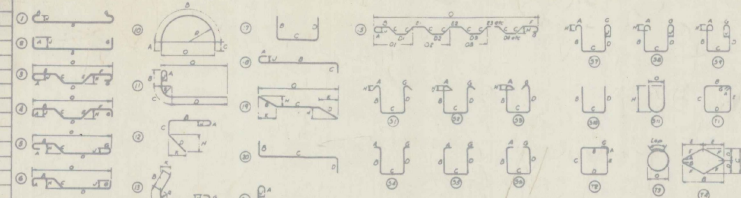
SHEET 81 OF 265

CONT. NO. 1

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT 1 - Designation 1A																	
1	2	5	3-5	WLS02A	Str												
2	2	5	3-6	WLS02B													
3	2	5	3-11	WLS02B													
4	2	5	4-1	WLS02B													
5	2	5	4-5	WLS02C													
6	2	5	4-6	WLS02A													
7	2	5	4-6	WLS02B													
8	2	5	4-8	WLS02C													
9	2	5	5-1	WLS02A													
10	2	5	5-11	WLS01													
11	2	5	5-11	WLS01													
12	2	5	5-11	WLS01													
13	2	5	5-11	WLS01													
14	2	5	5-11	WLS01													
15	2	5	5-11	WLS01													
16	2	5	5-11	WLS01													
17	2	5	5-11	WLS01													
18	2	5	5-11	WLS01													
19	2	5	5-11	WLS01													
20	2	5	5-11	WLS01													
21	2	5	5-11	WLS01													
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23	2	5	5-11	WLS01													
24	2	5	5-11	WLS01													
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26	2	5	5-11	WLS01													
27	2	5	5-11	WLS01													
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96	2	5	5-11	WLS01													
97	2	5	5-11	WLS01													
98	2	5	5-11	WLS01													
99	2	5	5-11	WLS01													
100	2	5	5-11	WLS01													

NOTE: Stirrups and tie bars shall be bent around a pin having a diameter not less than two times the minimum thickness of the bar. Bends for other bars shall be made around a pin having a diameter not less than six times the minimum thickness except for bars larger than 1 inch in which case the bends shall be made around a pin of eight bar diameters.

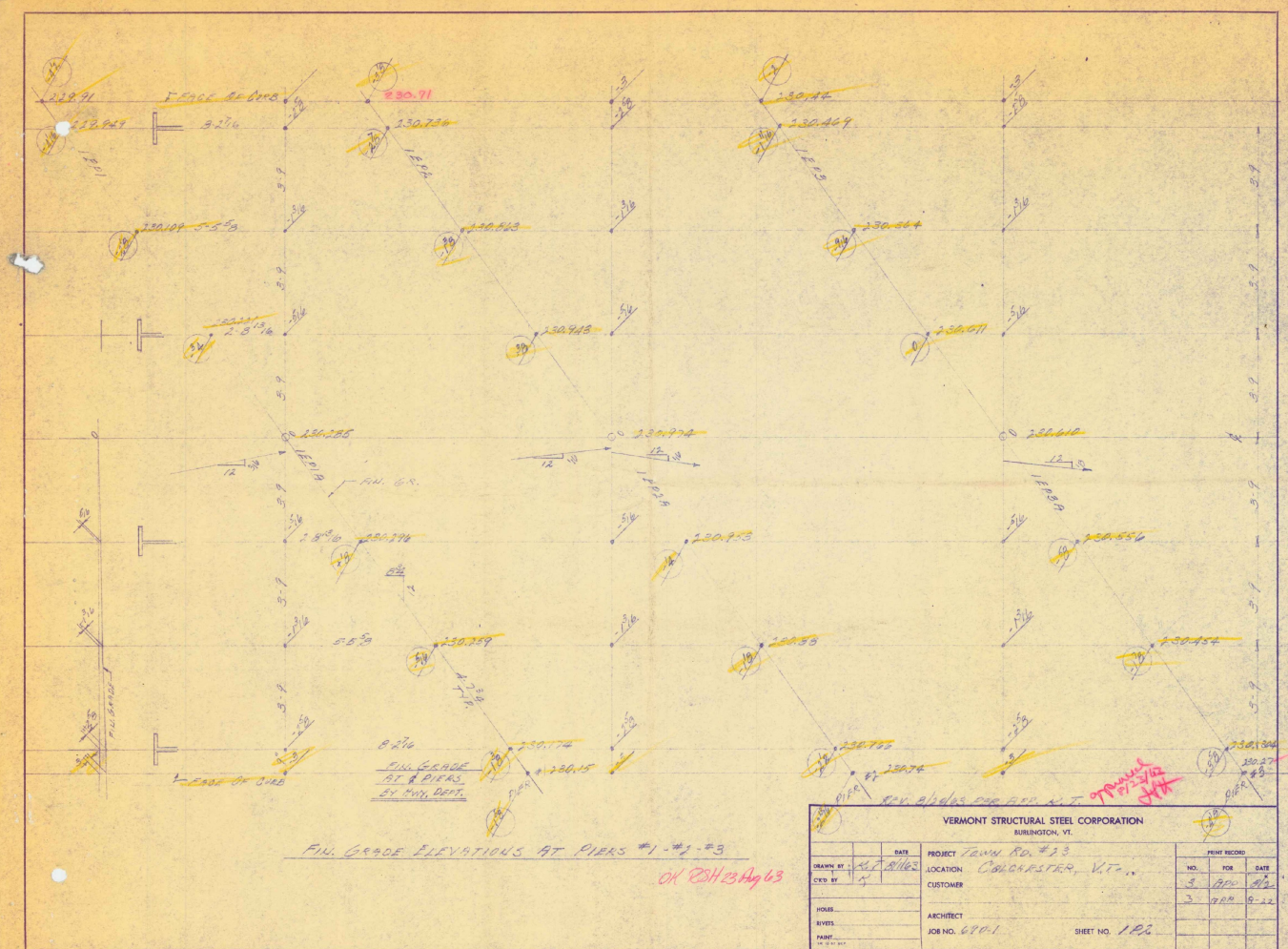
TYPICAL BAR BENDS



NOTES

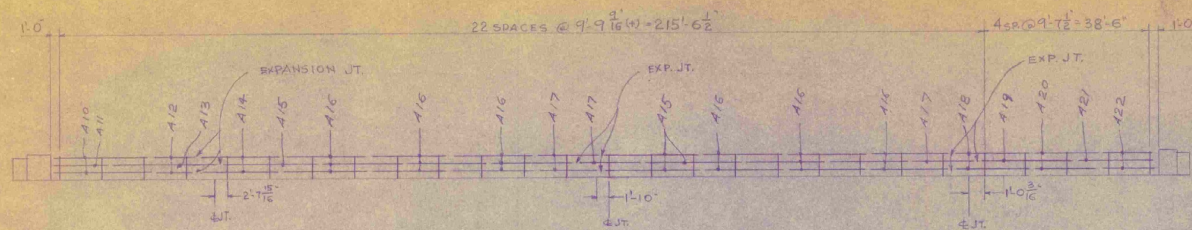
- All dimensions are in feet to 1/8 inch.
- "J" dimensions on 180° hooks to be shown only where necessary to restrict hook size otherwise standard hooks are to be used.
- Where "J" is not shown, "J" will be kept equal to or less than "H". Where "J" can exceed "H", it should be shown.
- "H" dimension on stirrups to be shown where necessary to restrict hook size.
- Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer marking should have limits indicated.
- Figures in circles show types.
- No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
101	23	6	3-0	137	1	0-8	1-8					0-8		0-6			
PIER 1																	
102	21	4	5-4	419	17	2-0	1-4	2-0									
103	21	4	5-6	420	17	2-0	1-6	2-0									
PIER 2																	
Same as pier 1																	
PIER 3																	
"																	
Mark - 10																	
Mark - 2P																	
Mark - 3P																	

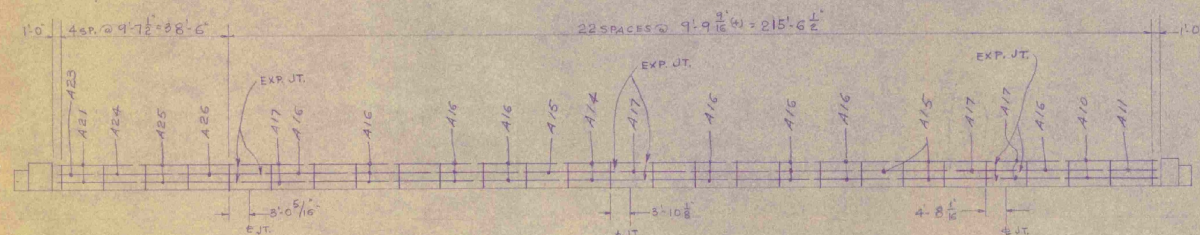




		VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.			
DATE		PROJECT <i>TOWN RD. #13</i>		PRINT RECORD	
DRAWN BY <i>K.T. Bille</i>	LOCATION <i>COLCHESTER, V.T.</i>	NO. <i>3</i>	FOR <i>APP</i>	DATE <i>9-2</i>	
CKD BY <i>K</i>	CUSTOMER	<i>3</i>	<i>APP</i>	<i>9-2</i>	
HOLES		ARCHITECT			
RIVETS		JOB NO. <i>680-1</i>		SHEET NO. <i>102</i>	
PAINT					
10-12-82 BCP					

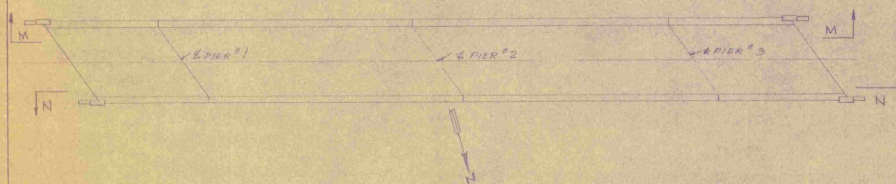


ELEVATION M-M

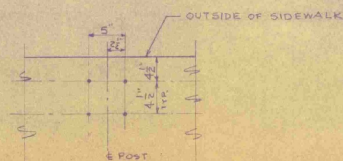


ELEVATION N-N

ALL DIMENSIONS HORIZONTAL



KEY PLAN



DETAIL AT ANCHOR BOLTS

BOLTS SHALL PROJECT 3/8" ABOVE TOP OF FINAL POUR

REFERENCE DWGS.
TOWN RD. #23 OVER I-89... SPTS 11 & 82 OF 265
VERMONT STD. DWG. #5B-56-G2

NOTE:
FOR NOTES & ADDITIONAL DETAILS SEE DWG B3-VT.

MR.	QUAN.	LENGTH
A10	4	21'-4"
A11	2	11'-6 7/16"
A12	2	9'-9 3/16"
A13	1	27'-2 7/16"
A14	4	19'-5 7/16"
A15	3	22'-1 7/16"
A16	35	19'-6 7/16"
A17	10	17'-5 7/16"
A18	2	19'-3 7/16"
A19	1	21'-3"
A20	2	17'-2 7/16"
A21	3	18'-11 3/16"
A22	2	11'-4 7/16"
A23	1	9'-4 7/16"
A24	1	19'-2 7/16"
A25	2	21'-3"
A26	1	19'-5 7/16"

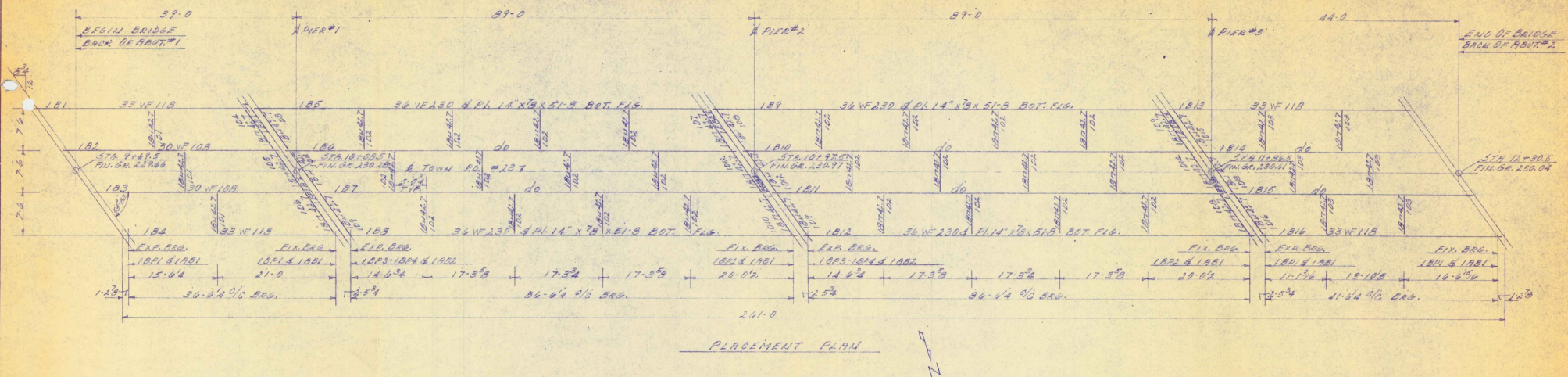
168	WEDGES BOLTS
54	SCREWS
12	END CAPS
75	SPLICE INLETS
1	STEEL TEMPLATE
216	ANCHOR BOLTS WITH NUTS & WASHERS

APPROVED
11/2/13
JH

DR. J.E.	CHK: WJ	WW: 545	B3-06
STATE OF VERMONT	DEPT. OF HIGHWAYS		
1-89-3 (10) CONTRACT #1			
TOWN OF COLCHESTER			
TOWN RD #23 OVER I-89			
METAL RAILING			
CONTRACTOR:			
W.W. WYMAN, INC.			
2	9/24/13	DESIGNED FOR ENGINEER	13
1	9/2/13	FOR APPROVAL	13
DATE		DESCRIPTION	BY

WARD WELER CO. INC.
688 HIGHLAND AVE.
NEEDHAM HEIGHTS 02459

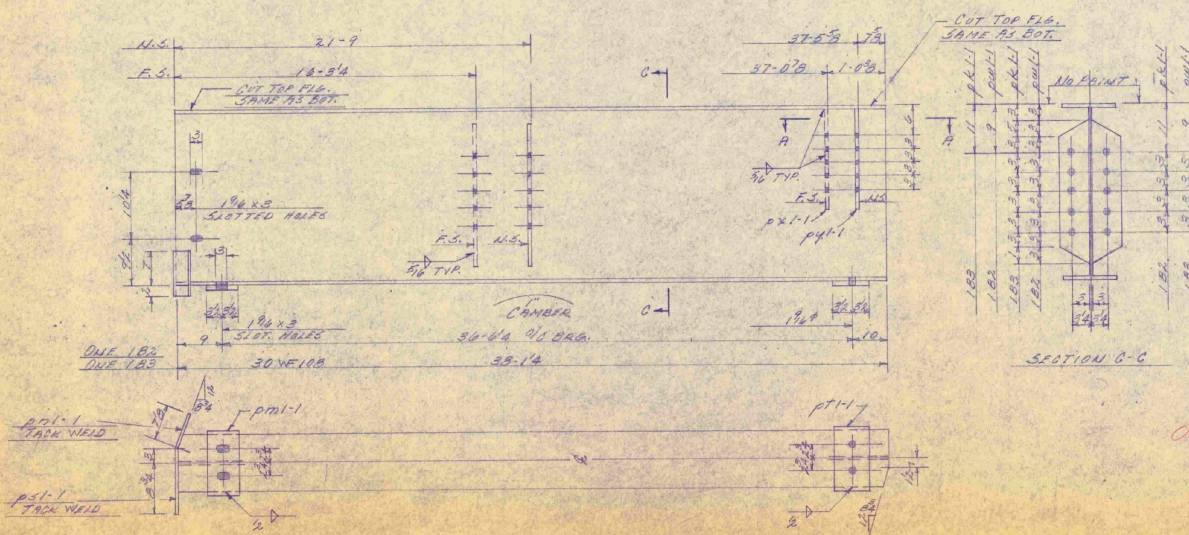
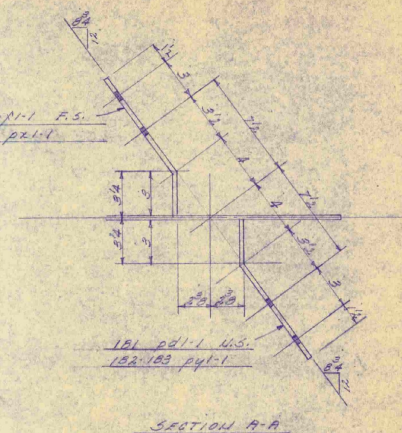
CHECKED BY JDE 11/2/13



OK RSH 23Apr.03

70-mud
1/23/03

VERMONT STRUCTURAL STEEL CORPORATION				BURLINGTON, VT.	
PLAN FOR BRIDGE 8/20/03 129-902				NO. FOR	
PROJECT TOWN RD #13 OVER R.R. CONTRACT #1				NO. FOR	
LOCATION CHAMBERLAIN, VT. DATE 1/23/03				NO. FOR	
CUSTOMER W.W. WILSON DATE 1/23/03				NO. FOR	
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS DATE 1/23/03				NO. FOR	
JOB NO. 83-0101 SHEET NO. 1 OF 1				NO. FOR	



NO. PILES		NAME	DESCRIPTION	LENGTH		WEIGHT
1	2			FEET	IN.	
<u>BORINGS</u>						
1	1	1B1	3.5 W 11.5	3.5	14	600.38-3
1	1	1A2	5.0 W 10.5	5.5	14	600.58-1
1	1	1A5	5.0 W 10.5	5.5	14	
1	1	1A6	3.5 W 11.5	3.5	14	600.38-1
2	2	2A1	5.0E PL 7 X 1	1	22	120.04
2	2	2A1	5.0E PL 7 X 1	1	22	120.04
2	2	2A1A	5.0E PL 7 X 1	0	11.5	
2	2	2A1-1	5.0E PL 7 X 1	0	11.5	
2	2	2A1	5.0E 5 X 4	2	5	FE 102.1104
2	2	2A1	5.0E 5 X 4	2	0	FE 102.1103
1	1	1A1	5.0 PL 11 X 4	1	0	FE 101
2	2	2A1	5.0 PL 11 X 4	2	0	FE 102
2	2	2A1	5.0 PL 11 X 4	1	9	FE 102.1103
2	2	2A1	5.0 PL 11 X 4	1	9	FE 102.1103
2	2	2A1	5.0 PL 9 X 4	0	7.5	FE 102.1104
2	2	2A1	5.0 PL 9 X 4	0	7.5	FE 102.1103
2	2	2A1	5.0 PL 9 X 4	0	11.5	FE 102.1103
2" WELD				2	4	
3" WELD				2	0	
PAINT 3 CO 120						

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857M A36

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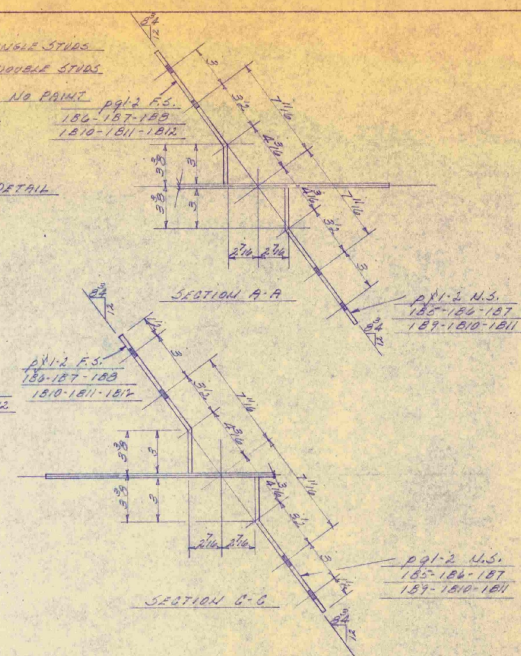
857M A36

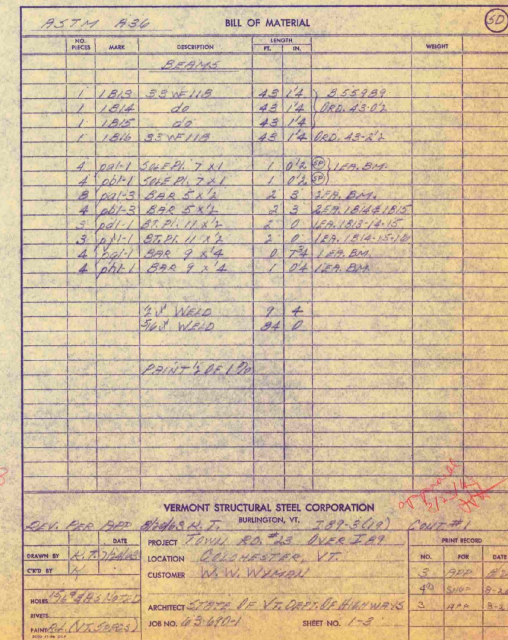
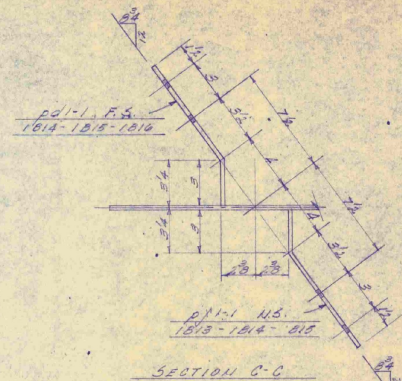
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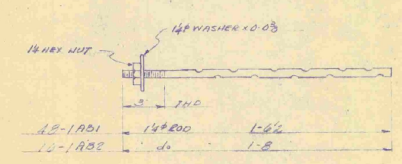
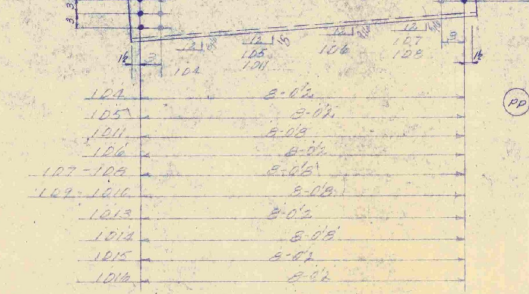
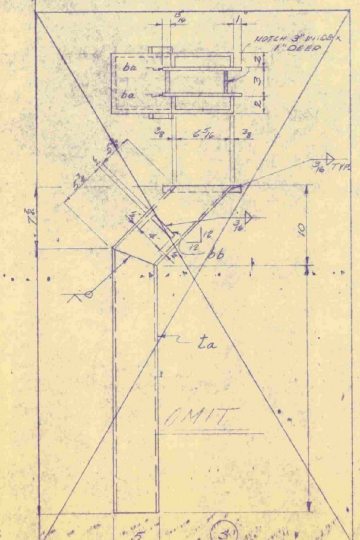
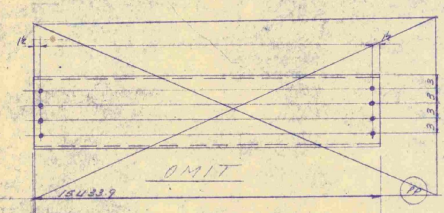
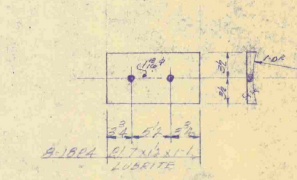
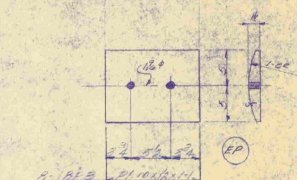
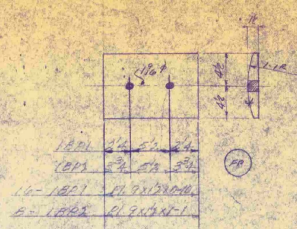
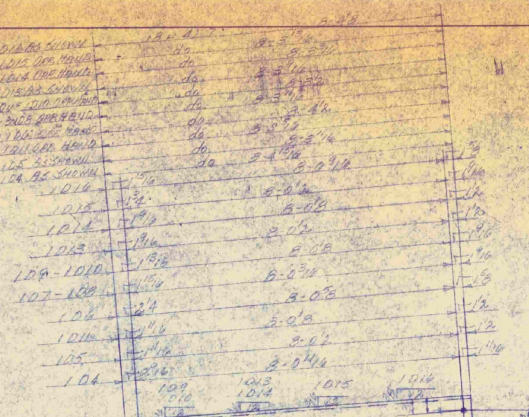
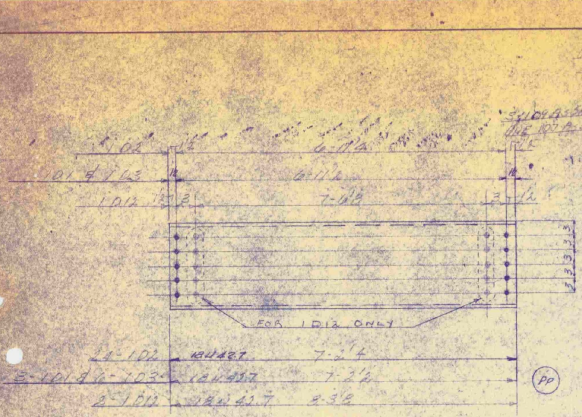
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857M A36

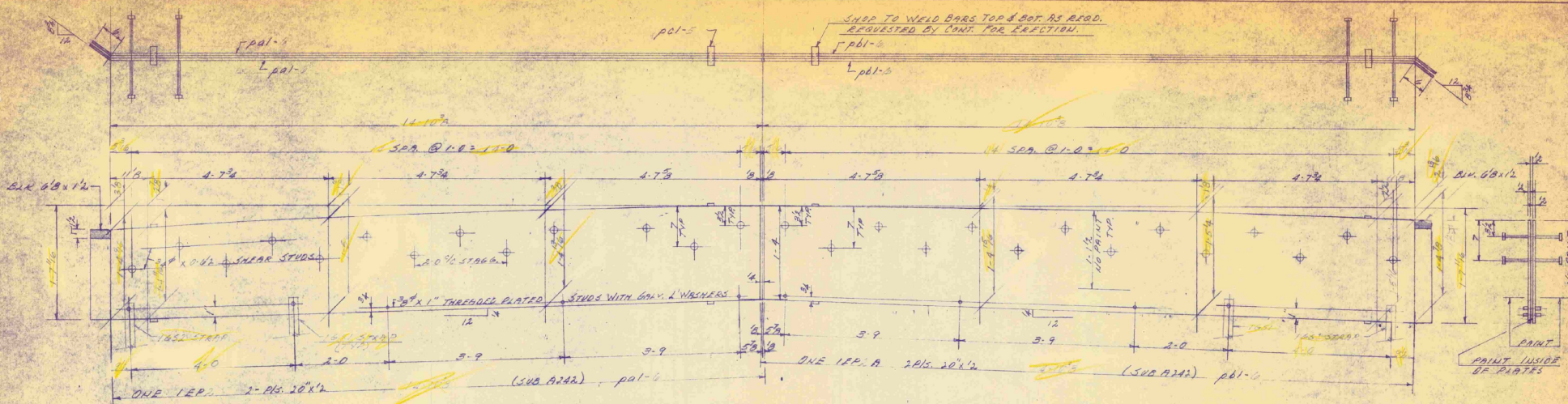
BILL OF MATERIAL

[illegible]





BILL OF MATERIAL									
NO.	PIECES	MARK	DESCRIPTION	LENGTH	IN.	WEIGHT			
			DIAPHRAGMS						
3	101	101-102	42.7	7.12					
2	102			7.12					
2	103			7.12					
2	104			7.12					
2	105			7.12					
2	106			7.12					
2	107			7.12					
2	108			7.12					
2	109			7.12					
2	110			7.12					
2	111			7.12					
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2	163			7.12					
2	164			7.12					

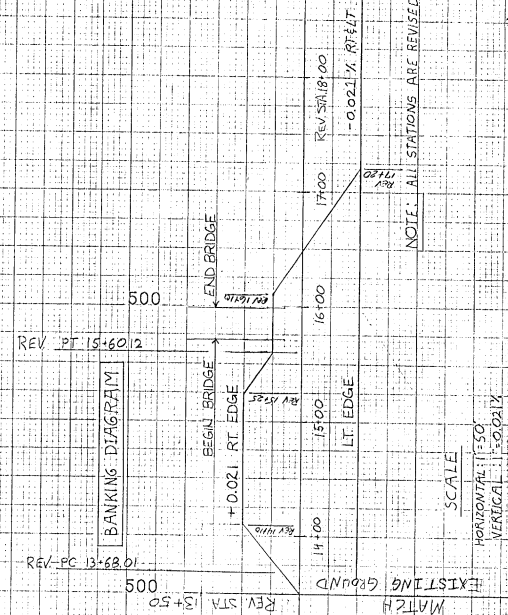
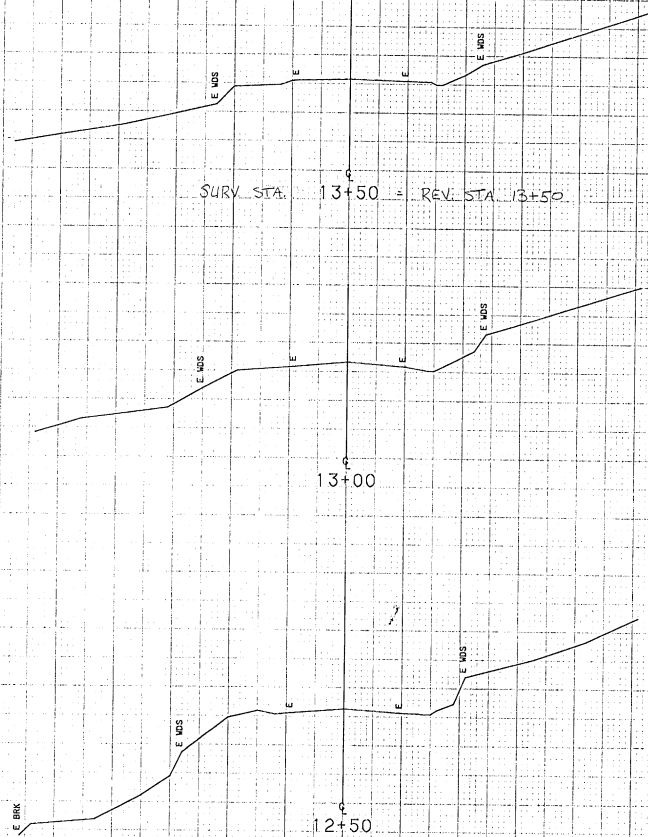


SHOP-NOTE SPECIAL MATERIAL

BILL OF MATERIAL				
NO.	QTY	DESCRIPTION	LENGTH FT. IN.	WEIGHT
1	ONE	END PL. IEP-1	ONE END PL. IEP-1	
2	2	2- 1/2" x 2"	1000. 57112	
2	2	2- 1/2" x 2"	1000. 9202	
20	20	20- STUDS	15 4 1/2	
20	20	20- 1/2" x 2" STUDS	0 20 15 7/8 PL	
20	20	20- 1/2" x 2" STUDS	0 1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
20	20	20- 1/2" x 2" STUDS	1 1/2" x 1/2" x 1/2"	
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OK RSH 23 Aug 63

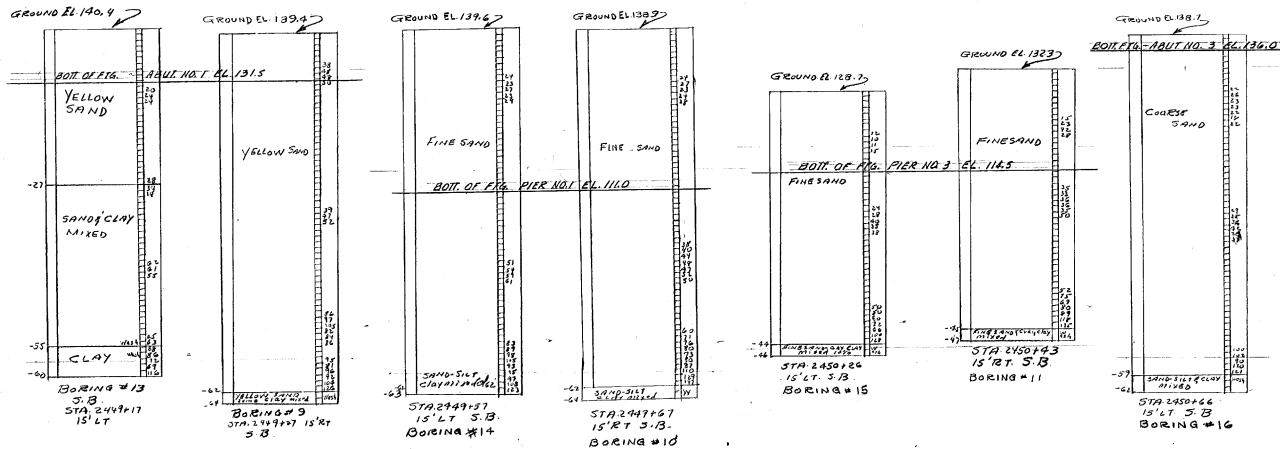
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.			
PROJECT	TRUSS ROOF OVER T-89	DATE	1-14-63
LOCATION	CHICHESTER, VT.	PRINT	RECORD
CUSTOMER	W. W. WYMAN	NO.	100
ARCHITECT	STATE OF VERMONT DEPARTMENT OF HIGHWAYS	DATE	3-17-63
JOHN NO.	83-0114	SHEET NO.	1-0



FROM STA. 12+50 TO STA. 13+50
 PROJECT NAME RUPERT MAIN
 NO. BR21441 (22)
 SURVEYED BY OILMAN
 PLOTTED 04/23/91
 04/91 0343

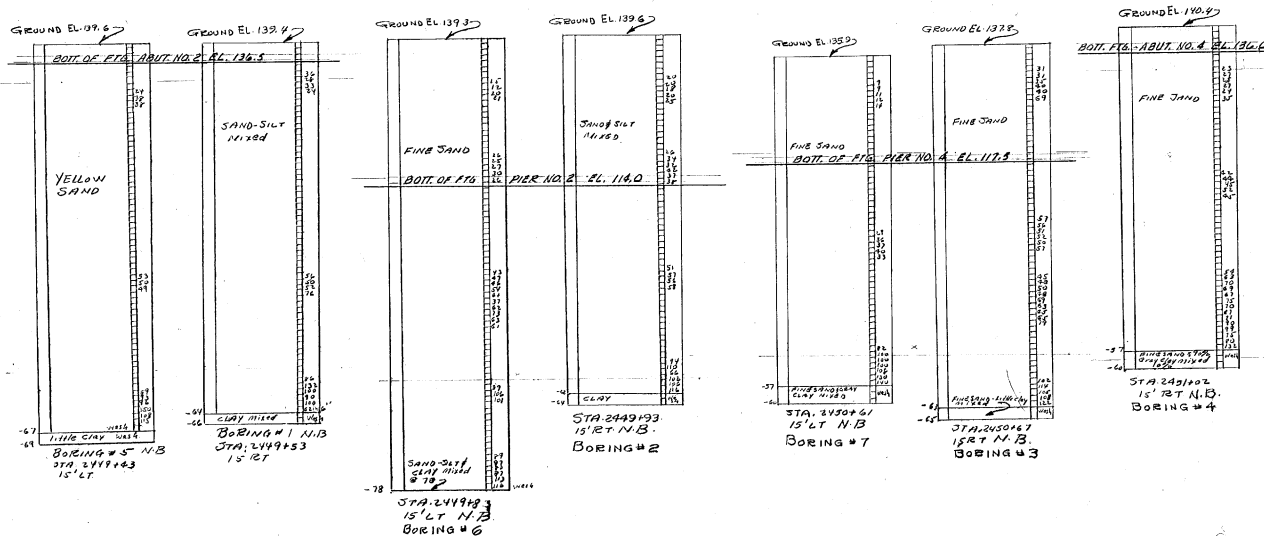
DATUM 150.00

159



DATUM 150.00

150.00



NOTE:
FOR PLAN VIEW OF BORING LOCATIONS
SEE DR. 4 OF 31.

STAGE I CONSTR.
BR. 5 OF 31

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE NO. 122 STA. 24502
BORING GS ON
INTERSTATE OVER VT ROUTE 127
SCALE 1" = 10'
SURVEYED BY R. PARENT
DRAWN BY P.K. CHECKED BY ELO
PROJECT NO. I-89-3(5)
SHEET 28 OF 303

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01
INITIALS ☐
HANGER 293

*
1963 9/1
1964

Colchester
I-893 (19) C/1

19 63
64