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PROJECT NAME & NUMBER TYPE PAVEMENT AREA  
**E. MONTPELIER-CALAIS S0243(1)** SINGLE TACK COAT REFINED TAR & BLADE MIX PEA STONE SEAL WITH CUTBACK ASPHALT. **35,904 s.y.**

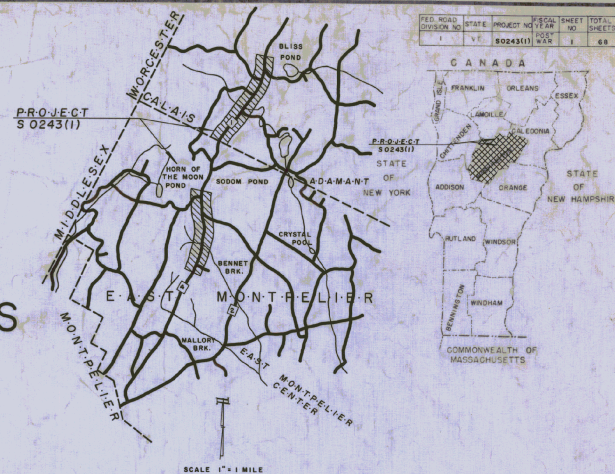
**RECORD PLANS MATERIALS**

SUB-BASE OF GRAVEL - PARTLOW PIT - RIVERTON, VERMONT.  
 PEA STONE - CALEDONIA SAND & GRAVEL CO. - PLAINFIELD, VERMONT.  
 REFINED TAR - KOPPERS CO. - EVERETT, MASS. & E. PROVIDENCE, R.I.  
 CUTBACK ASPHALT - MOBIL OIL CO. - EAST PROVIDENCE, R.I.  
 REINFORCED CONCRETE PIPE - VERMONT CONCRETE PIPE CO. - WINDSORVT.  
 ASPH. CTD. CORR. GALV. METAL PIPE - NORTHEASTERN CULVERT CORP.  
 6" PERF. ASPH. CTD. CORR. GALV. MET. UNDERDRAIN - WESTMINSTER, VT.  
 PLANK GUARD RAIL - S. I. GRISWOLD CO. INC. - ESSEX, JUNCTION, VT.  
 CONTRACTOR - GOSS DOWNING CONST. CO. CONTRACT DATED - MAY 8, 1959.  
 RESIDENT ENGINEER - H.A. HEALD CONTRACT STARTED - MAY 14, 1959.  
 RECORD PLANS - A.G. SPIDLE. CONTRACT COMPLETED - JULY 22, 1960.  
 CONTRACT ACCEPTED - JULY 22, 1960.

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

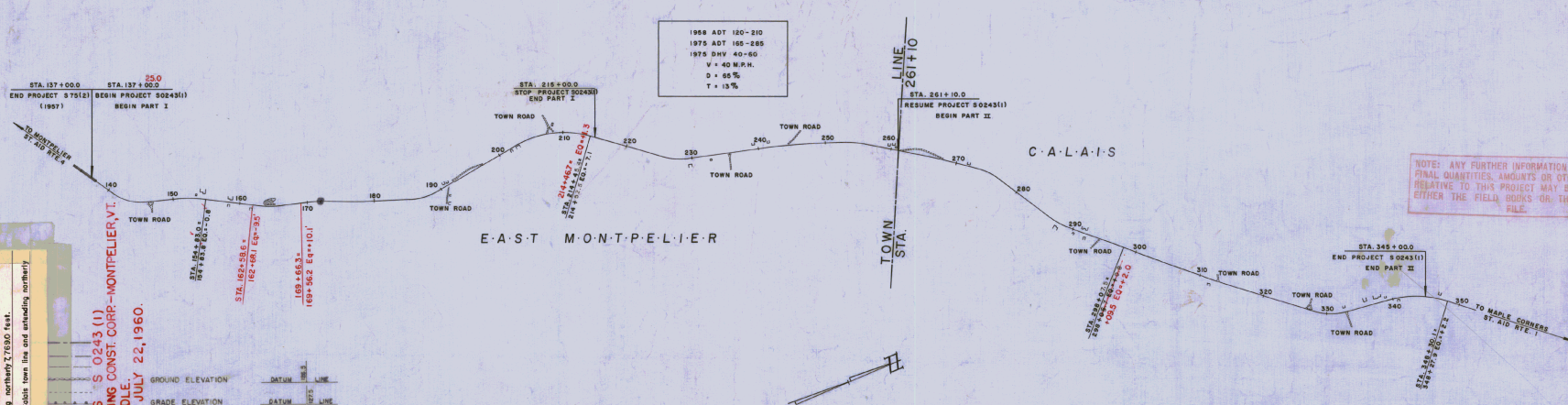
**Proposed Improvement**

FEDERAL AID  
 SECONDARY PROJECT



TOWNS OF EAST MONTPELIER - CALAIS  
 COUNTY OF WASHINGTON  
 STATE AID ROUTES # 4 & # 1  
 MONTPELIER - MAPLE CORNERS RD.

PART I: BEGINNING AT A POINT APPROXIMATELY 2.35 MILES SOUTHERLY OF THE  
 E. MONTPELIER - CALAIS TOWN LINE AND EXTENDING NORTHERLY 7,792.1 FT. = 1.476 MI.  
 PART 2: BEGINNING AT THE E. MONTPELIER - CALAIS TOWN LINE AND EXTENDING  
 NORTHERLY 8,390.8 FT. = 1.589 MI.  
 LENGTH OF PART 1: 7,792.1 FT. = 1.476 MI.  
 LENGTH OF PART 2: 8,390.8 FT. = 1.589 MI.  
 LENGTH OF PROJECT: 16,182.9 FT. = 3.065 MI.



GROUND ELEVATION	DATUM	LINE
GRADE ELEVATION	DATUM	REFS

CURVE DATA

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

SCALES

TITLE	1" = 800'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
VERTICAL	1" = 10'
GROSS SECTIONS	1" = 5'

PROJECT EAST MONTPELIER - CALAIS  
 DISTRICT S 0243(1)  
 TYPICAL SINGLE TACK COAT OF REFINED TAR & BLADE MIX PEA STONE SEAL WITH CUTBACK ASPHALT.  
 CONTRACTOR GOSS DOWNING CONSTRUCTION CORP.  
 MONTPELIER, VERMONT.  
 LOCATION PART I: Beginning at a point approximately 2.35 miles southerly of the E. Montpelier - Calais town line and extending northerly 7,792.1 feet.  
 PART 2: Beginning at the E. Montpelier - Calais town line and extending northerly 8,390.8 feet.

EAST MONTPELIER - CALAIS S 0243 (1)  
 CONTRACTOR - GOSS DOWNING CONST. CORP. - MONTPELIER, VT.  
 RECORD PLANS - A.G. SPIDLE.  
 CONTRACT COMPLETED - JULY 22, 1960.

APPROVED [Signature] SECONDARY ENGINEER DATE: <u>Sept 19, 1959</u>	APPROVED [Signature] CONSTRUCTION ENGINEER DATE: <u>Sept 23, 1959</u>	APPROVED [Signature] BRIDGE ENGINEER DATE: <u>Sept 19, 1959</u>	APPROVED [Signature] DISTRICT ENGINEER DATE: <u>Sept 17, 1958</u>	APPROVED [Signature] PROJECT ENGINEER DATE: <u>9/15/58</u>	APPROVED [Signature] ENGINEER DATE: <u>Sept 22, 1959</u> SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD
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NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE OBTAINED EITHER THE FIELD BOOKS OR THE ESTIMATE FILE.

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DISTRICT ENGINEER	DATE
PROJECT S NO. 0243(1)	
SHEET 1 OF SHEETS 68	

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30-66			

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

Proposed Improvement

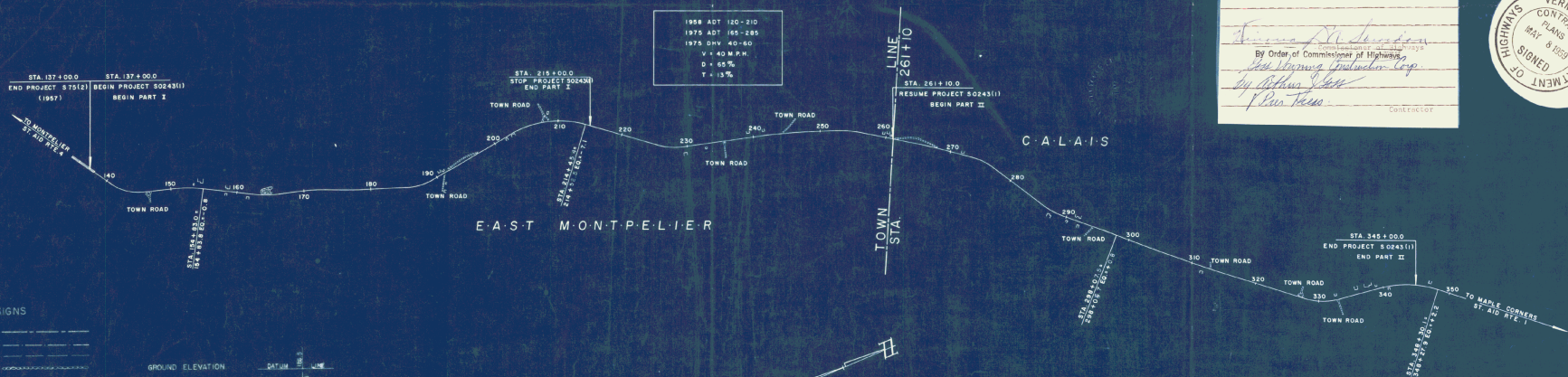
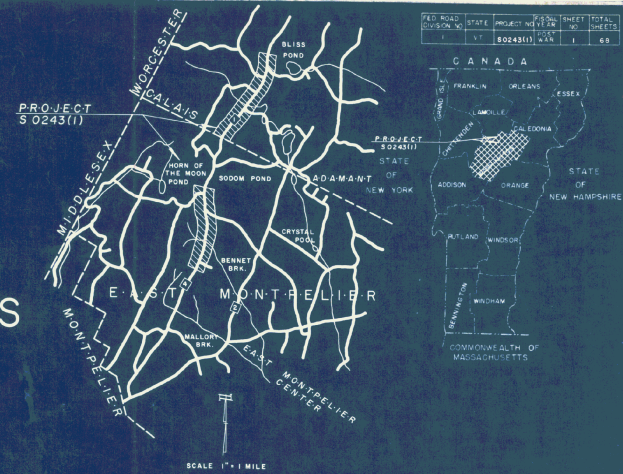
FEDERAL AID  
SECONDARY PROJECT

TOWNS OF EAST MONTPELIER ~ CALAIS  
COUNTY OF WASHINGTON  
STATE AID ROUTES # 4 & # 1  
MONTPELIER ~ MAPLE CORNERS RD.

PART I: BEGINNING AT A POINT APPROXIMATELY 2.35 MILES SOUTHERLY OF THE E. MONTPELIER ~ CALAIS TOWN LINE AND EXTENDING NORTHERLY 7,792.1 FT. = 1.476 MI.

PART 2: BEGINNING AT THE E. MONTPELIER ~ CALAIS TOWN LINE AND EXTENDING NORTHERLY 8,390.6 FT. = 1.589 MI.

LENGTH OF PART 1: 7,792.1 FT. = 1.476 MI.  
LENGTH OF PART 2: 8,390.6 FT. = 1.589 MI.  
LENGTH OF PROJECT: 16,182.9 FT. = 3.065 MI.



1968 ADT 100-210  
1975 ADT 160-285  
1975 DHV 40-60  
V + 40 M.P.H.  
D + 5%  
T + 13%

MAY 8, 1958  
By Order of Commissioner of Highways  
John Waring Underhill, Esq.  
John Jones, Contractor



CONVENTIONAL SIGNS

COUNTY LINE	GROUND ELEVATION	DATUM	IN	TO	LINE
TOWN LINE	GRADE ELEVATION	DATUM	IN	TO	LINE
FENCE LINE	CURVE DATA				
STONE WALL	DEFLECTION OF ANGLE	Δ	TITLE		
UNFENCED PROPERTY	DEGREE OF CURVE	D	1" = 800'		
GUARD RAIL	RADIUS OF CURVE	R	TYPICAL		
TRAVELED WAY	TANGENT DISTANCE	T	1" = 50'		
RAILROAD	LENGTH OF CURVE	L	PROFILE HORIZONTAL		
RETAINING WALL	EXTERNAL DISTANCE	E	1" = 10'		
CENTER LINE	POINT OF INTERSECTION	P.I.	CROSS SECTIONS		
SURVEY LINE	POINT OF CURVE	P.C.			
CULVERT	POINT OF TANGENT	P.T.			
DROP INLET	POINT ON TANGENT	P.O.T.			
TROLLEY POLE	POINT ON SUB-TANGENT	P.O.S.T.			
POWER POLE					
TELEPHONE POLE					
TREES					
HEDGE					

SCALES

TITLE	1" = 800'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
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CROSS SECTIONS	1" = 5'

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

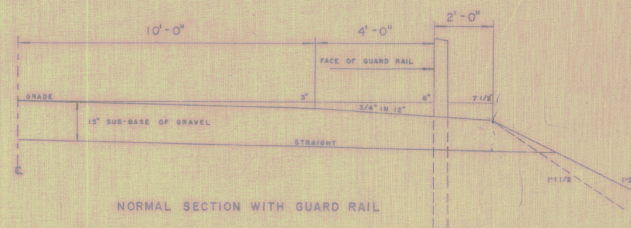
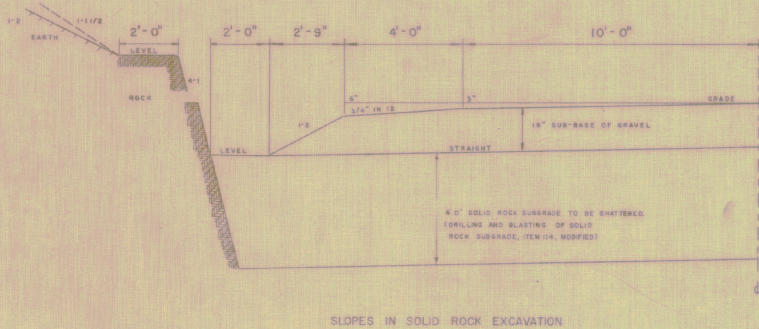
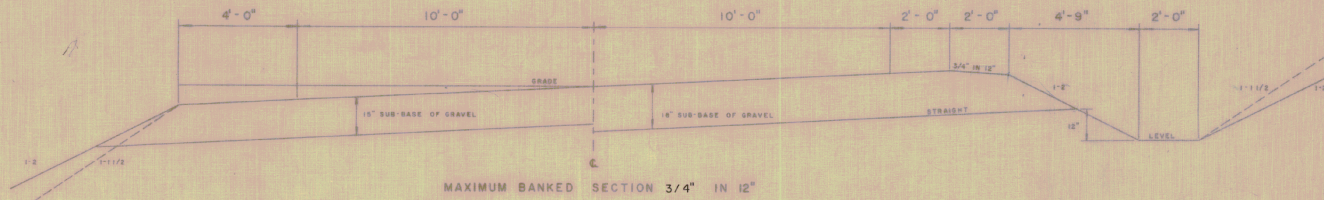
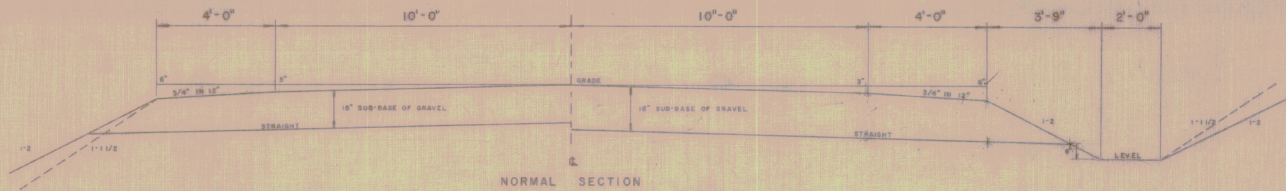
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION OF JANUARY 1956, SUBMITTED TO THE BUREAU OF PUBLIC ROADS AS APPROVED JULY 5, 1956, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: Sept 19, 1958	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: Sept 22, 1958	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: Sept 19, 1958	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: Sept 19, 1958	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: 9/19/58	APPROVED <i>[Signature]</i> DISTRICT ENGINEER DATE: Sept 22, 1958
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DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DISTRICT ENGINEER	DATE
PROJECT S NO.	0243(1)
SHEET	1 OF SHEETS, 68

# TYPICAL SECTIONS

SINGLE TACK COAT OF REFINED TAR  
AND BLADE MIX PEA STONE SEAL  
WITH CUTBACK ASPHALT. ITEM 317  
(15" & 18") SUB-BASE OF GRAVEL. ITEM 201-A  
CONSTRUCTED AS DESIGNED



GENERAL NOTES

WOOD BANNER POSTS, ITEM 548-C,  
TO BE PLACED AS DIRECTED BY THE ENGINEER

WINTER RYE, ITEM 610 (200 LBS PER ACRE)  
TO BE USED ON EARTH SLOPES AS DIRECTED BY THE ENGINEER

SEEDING, ITEM 60, TO BE USED AS DIRECTED BY THE ENGINEER

FORMULA

GRASSING RED PEGUE	10 LBS PER ACRE
RED TOP	3 LBS PER ACRE
KENTUCKY BLUE GRASS	35 LBS PER ACRE
DUTCH WHITE CLOVER	5 LBS PER ACRE
TOTAL	53 LBS PER ACRE

COMMERCIAL FERTILIZER FOR BRASSIES, ITEM 410,  
FORMULA 10-10-10, TO BE USED WITH SEEDING, ITEM 60

TOPSOIL, ITEM 601,  
TO BE USED WITH SEEDING, ITEM 60, OR AS  
DIRECTED BY THE ENGINEER

MULCH, ITEM 602,  
TO BE PLACED ON ALL EARTH SLOPES

TOWN OF EAST MONTPELIER - CALAIS

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

DRAWN BY BURNES

TRACED BY BURNES

PROJECT 5 N° 024510, SHEET 2 OF 68

# QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS  
EAST MONTPELIER - CALAIS PROJECT NO. S - 0243(1)

SUMMARY SHEET NO. 3 OF 68 19 58

R. O. W.	APPROXIMATE SUMMARY OF QUANTITIES		QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
	PART 1 (E. MONTPELIER)	PART 2 (CALAIS)				
	10,800	5,800	16,600	c.y.	Common Excavation	101-A
	2,900	5,800	8,700	c.y.	Solid Rock Excavation	101-B
	8,200	3,500	11,700	c.y.	Borrow (incl. 535 cy overrun Part 1) (incl. 205 cy overrun Part 2)	102
	700	1,300	2,000	c.y.	Trench Excavation of Earth	103-A
	300	500	800	c.y.	Trench Excavation of Rock (Estimated 266 cy Part 1) (incl. 45 cy ovn. Part 2)	103-B
	1	1	1	i.s.	Clearing and Grubbing	104
	14	16	30	day	Roadway Patrol Maintenance	108
	140	160	300	W/gal	Bust Control	111
	1,300	2,300	3,600	s.y.	Drilling & Blasting of Solid Rock Subgrade (Modified) (incl. 38 cy overrun - Part 1) (incl. 38 cy overrun - Part 2)	114
	10	10	20	hr.	Bulldozer Rental (Estimated)	119
	14,100	14,400	28,500	c.y.	Sub-base of Gravel	201-A
	141,000	186,400	289,400	cy/m	Gravel Overhaul (Modified)	221
	50	50	100	c.y.	Gravel Backfill (incl. 50 cy Estimated Part 1) (incl. 50 cy overrun Part 2)	222
	2,820	2,880	5,700	c.y.	Stripping of Gravel Pits	228
	15,400	20,300	35,700	gal	Single Thick Coat of Refined Tar and Blade Mix Top Stone Seal with Outback Asphalt	217
	30	35	65	c.y.	Cement Rubble Masonry (incl. 32 cy ovn. Part 1) (incl. 33 cy ovn. Part 2)	411
	172	172	172	i.f.	15" Reinf. Concrete Pipe (incl. 80 i.f. ovn. Part 2)	421-F
	180	234	414	i.f.	18" Reinf. Concrete Pipe (incl. 87 i.f. ovn. Part 1) (incl. 24 i.f. ovn. Part 2)	421-H
	60	64	124	i.f.	24" Reinf. Concrete Pipe	421-I
	60	60	120	i.f.	36" Reinf. Concrete Pipe	421-N
	55	56	111	i.f.	42" Reinf. Concrete Pipe	421-O
	72	72	144	i.f.	48" Reinf. Concrete Pipe	421-Q
	224	256	480	i.f.	12" Asph. Ctd. Corr. Galv. Metal Pipe (incl. 80 i.f. ovn. Part 1) (incl. 36 i.f. ovn. Part 2)	424-F
	182	128	310	i.f.	18" Asph. Ctd. Corr. Galv. Metal Pipe (incl. 28 i.f. ovn. Part 1) (incl. 30 i.f. ovn. Part 2)	424-H
	188	188	376	i.f.	24" Asph. Ctd. Corr. Galv. Metal Pipe	424-I
	56	56	112	i.f.	48" Asph. Ctd. Corr. Galv. Metal Pipe	424-O
	100	100	200	i.f.	Relaying Pipe Culverts (Part 1 (Estimated) Part 2 54 i.f. overrun)	428
	1,000	1,500	2,500	i.f.	6" Perf. Asph. Ctd. Corr. Galv. Metal Underdrain (Modified) (Estimated)	531-A
	32	64	96	i.f.	Plank Guard Rail w/Preservative Treatment	541-A
	205	235	440	each	Wood Guide Posts (incl. 2 ea. overrun Part 1) (incl. 3 ea. overrun Part 2)	545-A
	25	25	50	each	Wood Marker Posts (incl. 5 ea. overrun Part 1) (incl. 9 ea. overrun Part 2)	545-C
	2	2	4	each	Erection of Project Markers	566
	500	400	900	lb.	Winter Rye	610
	50	50	100	lb.	Seeding (Estimated)	611
	100	100	200	lb.	Commercial Fertilizer for Grasses (Estimated)	615
	10	10	20	c.y.	Topsoil (Estimated)	621
	8	7	15	ton	Mulch (Modified)	622

PART 1 (E. MONTPELIER) DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
COMMON EXCAVATION		
10,507	c.y.	Roadway (incl. 678 cy overrun)
228	c.y.	Approaches (incl. 19 cy overrun)
25	c.y.	Drives (incl. 3 cy overrun)
10,800	c.y.	Total
SOLID ROCK EXCAVATION		
2,793	c.y.	As per Section
188	c.y.	15' Unavoidable Overbreakage
91	c.y.	Boulders (Estimated)
2,990	c.y.	Total
TRENCH EXCAVATION OF EARTH		
867	c.y.	Pipe Culverts (Designed)
88	c.y.	Pipe Culverts (Estimated)
250	c.y.	Stg. Underdrain (Estimated)
700	c.y.	Total
SUB-BASE OF GRAVEL		
13,270	c.y.	Roadway (incl. 514 cy overrun)
637	c.y.	Approaches (incl. 60 cy overrun)
123	c.y.	Turnout Sts. 209+00 - 211+50 (incl. 8 cy overrun)
70	c.y.	Drives (incl. 5 cy overrun)
14,100	c.y.	Total
SINGLE THICK COAT OF REFINED TAR AND BLADE MIX PER STONE SEAL WITH OUTBACK ASPHALT		
17,470	gal.	Roadway (incl. 920 gal. overrun)
503	gal.	Approaches (incl. 30 gal. overrun)
186	gal.	Drives (incl. 9 gal. overrun)
332	gal.	Turnout Sts. 209+00 - 211+50 (incl. 16 gal. overrun)
18,491	gal.	Total

PART 2 (CALAIS) DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
COMMON EXCAVATION		
5,800	c.y.	Roadway (incl. 588 cy overrun)
188	c.y.	Approaches (incl. 12 cy overrun)
8	c.y.	Drives (incl. 3 cy overrun)
5,896	c.y.	Total
SOLID ROCK EXCAVATION		
5,872	c.y.	As per Section
281	c.y.	15' Unavoidable Overbreakage
7	c.y.	Boulders (Estimated)
5,960	c.y.	Total
TOTAL EXCAVATION OF EARTH		
500	c.y.	Pipe Culverts (Designed)
116	c.y.	Pipe Culverts (Estimated)
855	c.y.	Stg. Underdrain (Estimated)
1,471	c.y.	Total
SUB-BASE OF GRAVEL		
12,680	c.y.	Roadway (incl. 768 cy overrun)
635	c.y.	Approaches (incl. 21 cy overrun)
85	c.y.	Drives (incl. 5 cy overrun)
14,400	c.y.	Total
SINGLE THICK COAT OF REFINED TAR AND BLADE MIX PER STONE SEAL WITH OUTBACK ASPHALT		
18,895	gal.	Roadway (incl. 117 gal. overrun)
1,140	gal.	Approaches (incl. 53 gal. overrun)
265	gal.	Drives (incl. 12 gal. overrun)
20,300	gal.	Total

TYPE OF CONSTRUCTION				
STATIONS		PAVEMENT WIDTHS		EQUATIONS
FROM	TO	20'		+ -
PART 1 EAST MONTPELIER				
137 + 00	194 + 83	1783.0		
194 + 83.8	214 + 41.6	5967.8		0.8
214 + 45.7	215 + 00	58.3		N.I. - 7/
Part 1 Total		7795.1		
PART 2 CALAIS				
261 + 10	298 + 09.3	3699.9		
298 + 09.3	345 + 00	4681.7		1.6
Part 2 Total		8381.6		
<b>TOTALS</b>		16,186.7		1.6 4.9
LENGTH OF PROJECT				
STATIONS	FEET	MILES	REMARKS	
137 + 00	215 + 00	7795.1	PART 1 (E. MONTPELIER)	
261 + 10	345 + 00	8381.6	PART 2 (CALAIS)	
<b>TOTALS</b>		16,186.7	3.065	

Total 16,186.7  
 Copy to 15/1/58  
 Checked by  
 Date 11/1/58















East Montpelier-Calgis 5-2430

# FINAL EARTHWORK SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS.

STATION	DIST	Completed Cut		Over Cut		To Be Cut		To Be Filled		V.H. FE	AREA	CU YDS	Gravel		Authorized	Gravel		Additional	
		AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS				AREA	CU YDS		Gravel	Overfill		Gravel
135+0	50																		
750	50																		
136	50																		
137	50																		
138	50																		
139	50																		
140	50																		
141	50																		
142	50																		
143	50																		
144	50																		
145	50																		
146	50																		
147	50																		
148	50																		
149	50																		
150	50																		
151	50																		
152	50																		
153	50																		
154	50																		
155	50																		
156	50																		
157	50																		

154+83.0 → FA = 0.848  
154+83.8







East Montpelier - Calais 5-2243(1)

# FINAL EARTHWORK SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS.

Cut				Fill				Gravel				Cut				Fill				Gravel							
STATION	Dist	Comp. Area	Over Cut	To Be Cut	Comp. Area	To Be Filled	Waste	STATION	Dist	Height	Width	Comp. Area	Over Cut	To Be Cut	Comp. Area	To Be Filled	Waste	STATION	Dist	Height	Width	Comp. Area	Over Cut	To Be Cut	Comp. Area	To Be Filled	Waste
AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	Gravel	Gravel	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	Gravel	Gravel	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS
Sector Approach - End - Part 2												Approach C															
345+0	50	26	38'	4'	4'	30'	30'	8'	-7'	37'	40'	3'	3'	0+14	11												
+50	12			0'	2'			0'		6'		0'		+25	25												
346	50	25		0'	2'			0'		6'		0'		+50	25												
+25														1	25												
														+50	50												
PART 1 - Approach to 146 + 80 RT												Approach @ 322 + 70 RT															
0+14	11													0+14	11												
+25	25													+25	25												
+50	25													+50	25												
+75	25													+75	25												
1														1	25												
+20														+20	25												
PART 1 Approach @ 192 + 80 RT												Approach @ 322 + 70 RT															
0+14	11													0+14	11												
+25	25													+25	25												
+50	25													+50	25												
+75	25													+75	25												
1														1	25												
+25														+25	25												
PART 2 Approach @ 294 + 35 RT												Approach @ 322 + 70 RT															
0+14	11													0+14	11												
+25	25													+25	25												
+50	25													+50	25												
+75	25													+75	25												
+70	25													+70	25												
+25														+25	25												
Approach @ 313 + 80 RT												Approach @ 322 + 70 RT															
0+14	11													0+14	11												
+25	25													+25	25												
+50	25													+50	25												
+75	25													+75	25												
1+0														1+0	25												

CARRIED FORWARD  
COLUMN TOTAL

CARRIED FORWARD  
COLUMN TOTAL

PROJECT East Montpelier - Calais

PROJECT 5 NO. 2243(1)  
Part 2 SHEET 3 OF 3

# FINAL EARTHWORK SUMMARY SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

NOTES	STATIONS	TOTAL EXCAVATION			ROCK			EMBANKMENT			UNAUTHORIZED WASTE			BASE			NOTES	COLUMN SUMMARY																	
		DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE		DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	SHEET	COLUMN	EXCAVATION	ROCK	FILL	UNAUTHORIZED WASTE	BASE					
<b>GOVERNMENT PARTICIPATION</b>																																			
<b>ITEMS</b>																																			
COMMON EXCAVATION	101A	CY	16,600	16,074	Complete	SEE REMARKS																			REMARKS To reach final design, the strip should be excavated. Final clean up will take care of this. Clean out ditches & rock slopes where necessary, as entire project. Then pay design quantity plus 2% overbreakage (118 cy due). Possible & please roll need drilling & blasting.										
SAND ROCK EXCAVATION	101B	CY	8000	19,761			0	1550	ESTIMATED	500.00	50'																								
TRENCH EXCAV. OF EARTH	103A	CY	2,000	666			0	0	0	0	0																								
TRENCH EXCAV. OF ROCK	103B	CY	800	146			0	50	0	100.00	3																								
GRADING & CURBS	104	LUMP SUM	1	1			0	0	0	0	0																								
ROADWAY PATROL MAINTENANCE	105	DAY	30	4	26	SEE REMARKS																													
DUST CONTROL	111	M/GAL	300	706			0	50	ESTIMATED	1,800.00																									
EXPLORING & BLENDED SOLID	114	S.Y.	9,600	2,944	0		0	0	0	0	0																								
PULL DOWN RENTAL	119	HR	80	22			0	5	ESTIMATED	50.00																									
SUB-DRAIN OR GRAVEL	201A	CY	20,500	24,905		SEE REMARKS	0	0	0	1,500.00		1,500 cy including 300 overbreak. To complete shaping. Material available on project.																							
GRAVEL CURBSIDE (MOD)	221	CY/IN	2,840	2,637	0	SEE REMARKS																													
GRAVEL BACKFILL	222	CY	100	0																															
STIPPLE GRAVEL PITS	223	CY	3,700	1,651																															
STEEL TACK COAT OF REFINED																																			
TAR SLURRY MIX FOR STONE SEAL																																			
WIND CUTS& ASPHALT	307	GAL	59,700	0	38,700	0	445	35,700		17,415.00																									
CEMENT PUBLIC MASSING	411	CF	85	0																															
1 1/2" RCP	401	LF	88	88																															
12" RCP	402H	LF	348	348																															
24" RCP	402	LF	184	184																															
36" RCP	403M	LF	60	60																															
48" RCP	403N	LF	36	64																															
60" RCP	403	LF	72	64																															
1 1/2" ALCCOINP	404F	LF	480	480		0.5	84	396.00		44 @ 12+25 LF	40 @ 19+22 LF																								
10" ALCCOINP	404H	LF	300	0																															
24" ALCCOINP	404K	LF	102	102																															
48" ALCCOINP	404G	LF	36	36																															
RELAYING PIPE CURBSETS	422	LF	200	164																															
6" POLYCON UNDERDRAIN	431A	LF	2,500	10																															
PLATE CURB SET																																			
EXPOSITIVE TREATMENT	541A	LF	96	0	96	0.17	96	336.00																											
WOOD CURB SETS	588A	LNH	430	0	430	0.710	430	3,800.00																											
WOOD MARKER POSTS	600	LNH	50	0	50	0.19	50	875.00																											
LOCATION OF PROTECTIVE MARKS	584	LNH	4	0	4	0.19	4	80.00																											
WINTER KYLE	610	LB	400	112			0.31	500	150.00																										
SEEDING	611	LB	100	0	100	0.11	100	100.00																											
COMMERCIAL FERTILIZERS																																			
FOR CORNER	612	LB	200	0	200	0.11	200	166.00																											
FOR CORNER	621	CY	20	0	20	0.340	20	80.00																											
MOULIN (MOD)	622	T/M	15	9.07			0.400	5	400.00																										
										Sub Total 24,992.00																									
TRENCH EXCAVATION OF EARTH		103A	CY	2,000	666			0	150	ESTIMATED	22.50																								
TRENCH EXCAVATION OF ROCK		103B	CY	800	146			0	50	ESTIMATED	22.50																								
										Grand Total 24,992.50																									
										Retained 2,812.50																									
										24,992.00																									
										25,175.00																									
TOTALS																																			
																		TOTALS						REMARKS											

East Montpelier - Calais  
S-0243(1)

# SUMMARY SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

Government Participation		Participation		Original Design Figure	Adjusted Design Figure	Amount Completed	Estimated Amount To Do	Unit Price	Dollar Value per Contract	Description	REMARKS	COLUMN SUMMARY						
Item	Contract Figure	Overrun Allowance	Estimate									Excavation	Rock	Fill	Sanitized Waste	Base		
Common Excavation	16 600	7060	15 540	16074				045	2 283 30	Common Excavation	To verify spot design line, set by to be excavated. Final clean up will take care of this. Clear out all excess material, then pay design quantity plus 5% overdrainage. (Total 118.4 cu)							
Solid Rock Excavation	8 800	465	8 335	8020				3 50	28 070 00	Solid Rock Excavation								
Borrow	11 700	740	10 960	15101				050	930 50	Borrow								
Trench Excavation of Earth	2 000	-	2 000	666				1 00	990 00	Trench Earth								
Trench Excavation of Rock	800	-	800	146				5 00	730 00	Trench Rock								
Clearing & Grubbing	1-15	495	1-1.5	1.5		0		10 000	10 000 00	Clearing & Grubbing	Estimate 100% at 2005 if No. 1 have trees shattered by blasting. Cut 1 stump flush. Minor pickup.							
Roadway Patrol Maintenance	30	-	30	4		?		40 00	160 00	Roadway Patrol	Use as needed.							
Dust Control	300	-	300	704		?		3 00	2112 00	Dust Control	Use as needed.							
Drilling & Blasting Solid Rock Subgrade (Mod)	3 600	72	3 600	2949		0		1 70	5013 30	Drilling & Blasting	Complete.							
Bulldozer Rental	20	20	20	22		?		1 000	220 00	Bulldozer Rental	Use as needed.							
Subbase of Gravel	20 500	1672	18 828	24 109		?		0 90	22238 10	Subbase of Gravel	Shape up. Move surplusses to areas where needed.							
Gravel Overhaul (Mod)	299 400	-	299 400	268 171		?		0 10	2681 20	Gravel Overhaul	Not needed.							
Gravel Backfill	100	41	59	2		0		2 50	0 00	Gravel Backfill	Complete.							
Stripping Gravel Pits	5 700	-	5 700	16 657		?		0 10	1665 10	Stripping Gravel Pits	Complete.							
Single Blade Mix Portable	-	-	-	-		-		-	-	Single Blade Mix Portable								
Seal with Cutback Asphalt	38 700	2 229	36 471	0		100%		0 45	1925 00	Seal with Cutback Asphalt	100% to be done.							
Cement Rubble Masonry	65	-	65	397		0		50 00	1985 00	Cement Rubble Masonry	Complete.							
12" Rein. Concrete Pipe	172	-	172	85		0		3 79	329 12	12" Rein. Concrete Pipe	Complete.							
18" Rein. Concrete Pipe	426	-	426	312		0		4 50	1404 00	18" Rein. Concrete Pipe	Complete.							
24" Rein. Concrete Pipe	624	-	624	675		0		6 75	4527 00	24" Rein. Concrete Pipe								
36" Rein. Concrete Pipe	60	-	60	28		0		11 50	322 00	36" Rein. Concrete Pipe								
42" Rein. Concrete Pipe	56	-	56	64		0		15 76	1018 24	42" Rein. Concrete Pipe								
48" Rein. Concrete Pipe	72	-	72	64		0		19 65	1270 40	48" Rein. Concrete Pipe								
15" F.C.C.G. Metal Pipe	450	-	450	422		0		4 00	1688 00	15" F.C.C.G. Metal Pipe								
18" H.C.C.G. Metal Pipe	310	-	310	238		0		4 50	1071 00	18" H.C.C.G. Metal Pipe								
24" H.C.C.G. Metal Pipe	184	-	184	188		0		7 50	1410 00	24" H.C.C.G. Metal Pipe								
48" H.C.C.G. Metal Pipe	56	-	56	56		0		19 60	1097 60	48" H.C.C.G. Metal Pipe								
Relaying Pipe Culverts	200	-	200	164		0		1 00	164 00	Relaying Pipe Culverts								
6" Rein. C.C. Metal Underdrain (Mod)	2 500	-	2 500	80		0		2 50	200 00	Underdrain (Mod)	Complete.							
Plank Guard Rail with Preservative Treatment	96	-	96	0		100%	96	3 50	336 00	Plank Guard Rail with Preservative Treatment	100% to be done.							
Wood Guide Posts	4 40	-	4 40	0		100%	4 40	2 50	11 00	Wood Guide Posts	100% to be done.							
Wood Marker Posts	50	-	50	0		100%	50	3 00	150 00	Wood Marker Posts	100% to be done.							
Erection of Project Markers	4	-	4	0		100%	4	0 30	1 20	Erection of Project Markers	100% to be done.							
Whitex Rye	900	-	900	112		100%	112	0 30	33 60	Whitex Rye	Use as needed.							
Seeding	100	-	100	0		100%	100	1 00	100 00	Seeding	Use as needed.							
Commercial Fertilizer	200	-	200	0		100%	200	0 20	40 00	Commercial Fertilizer	Use as needed.							
Xer Grasses	20	-	20	0		100%	20	3 00	60 00	Xer Grasses	Use as needed.							
Topsoil	15	-	15	9 07		100%	9 07	80 00	725 60	Topsoil	Use as needed.							
Mulch (Mod)	-	-	-	-		-		-	-	Mulch (Mod)	Use as needed.							
Embankment Waste - (Fill)	1057	-	1057	-		-		-	-	Embankment Waste - (Fill)								
Gravel Overfill (Subgrade)	-	-	-	-		-		-	-	Gravel Overfill (Subgrade)								
Non-Government Participation											128 004 46							
Trench Excavation of Earth	54	-	54	18		?		1 50	58 50	Trench Earth	1 where water pipe, please to be installed. Estimate 100% ditto							
Trench Excavation of Rock	18	-	18	18		?		5 00	90 00	Trench Rock								
TOTALS											128 004 46							

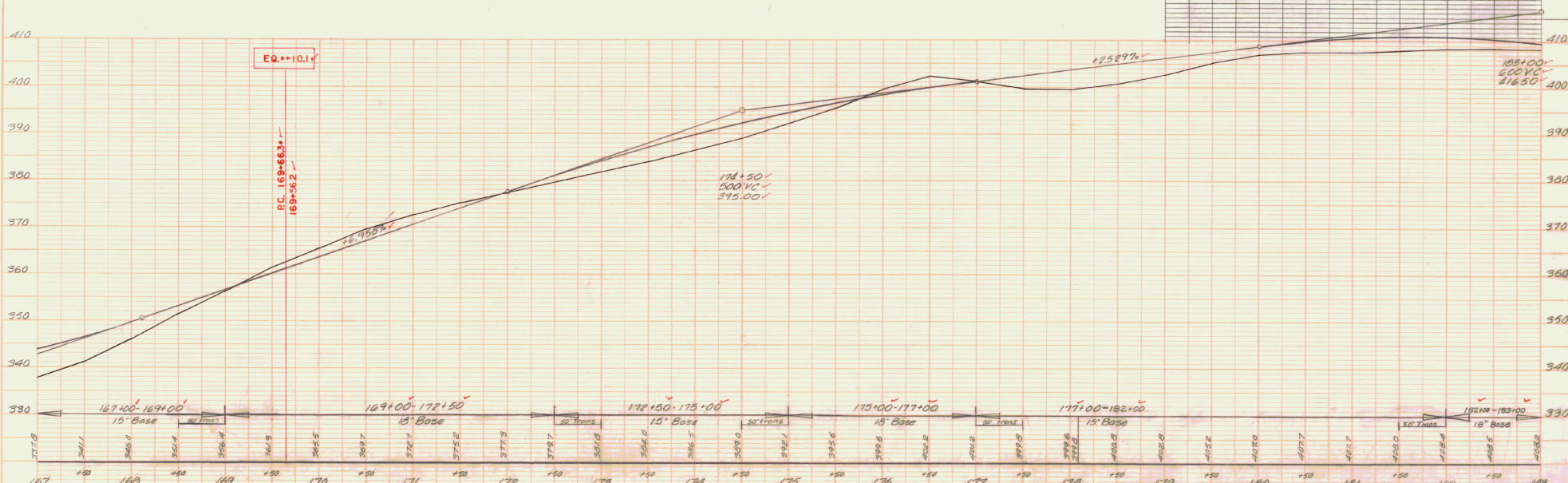
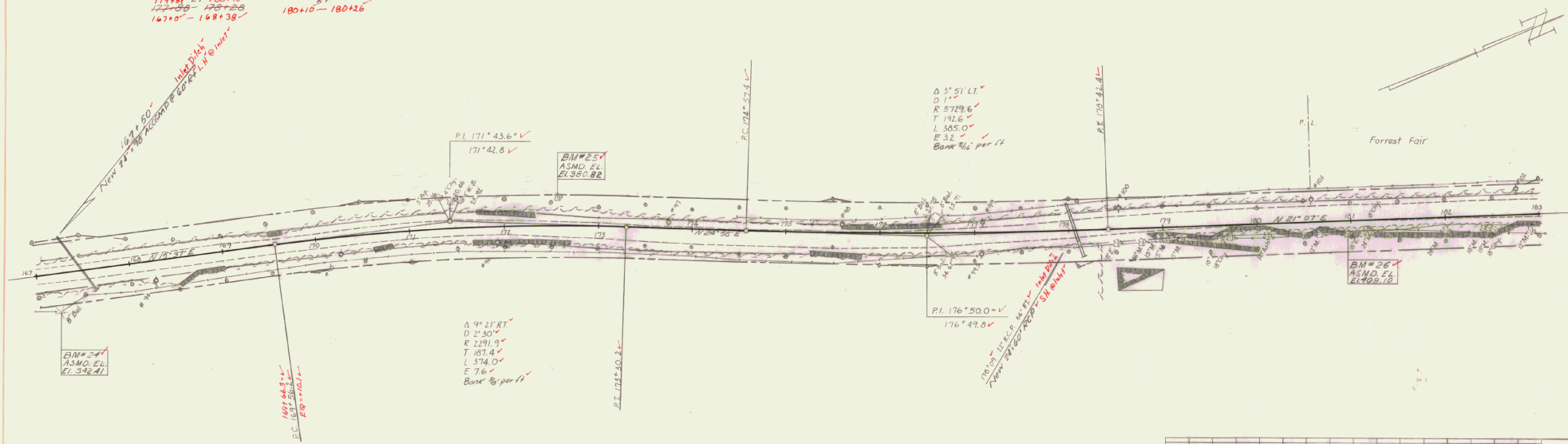




PLAN  
 DRAWN BY: L. CALAIS  
 CHECKED BY: J. CALAIS  
 DATE: 11/87  
 PROJECT: EAST MONTELIER-CALAIS  
 SHEET: 17 OF 68

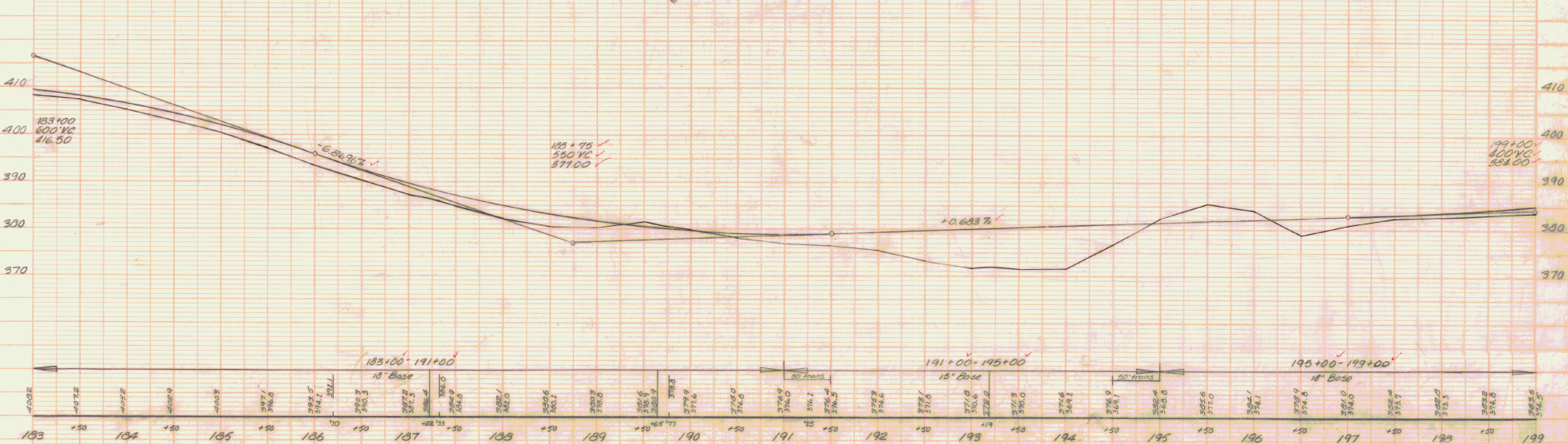
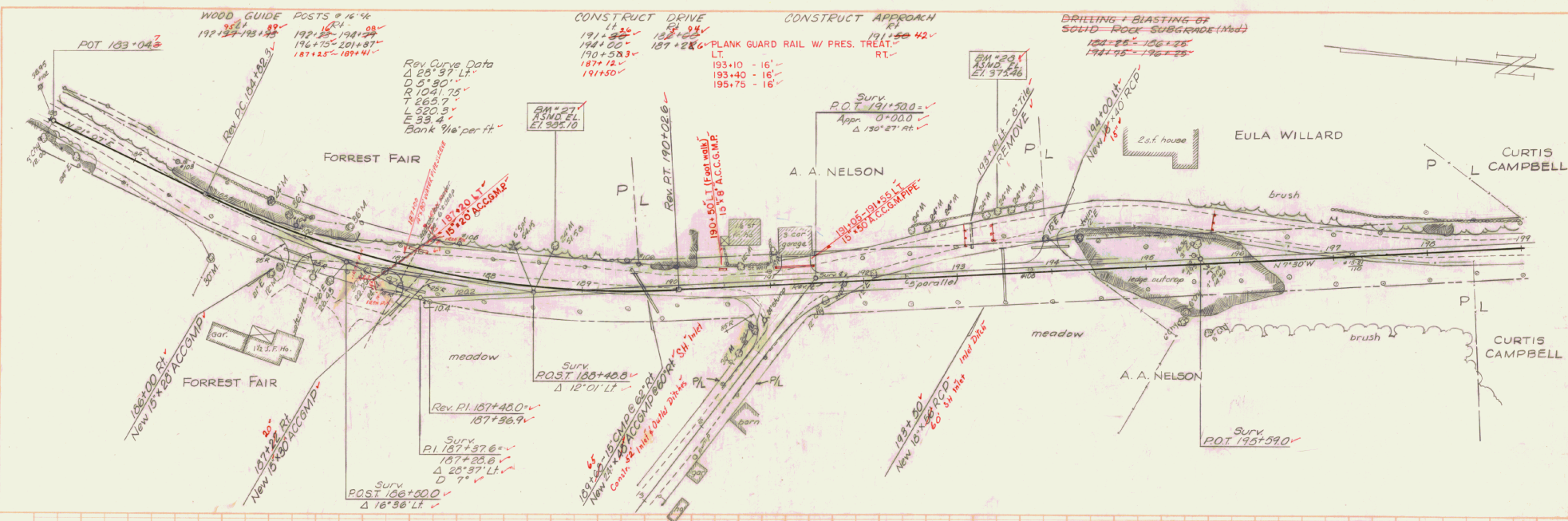
PROFILE  
 DRAWN BY: L. CALAIS  
 CHECKED BY: J. CALAIS  
 DATE: 11/87  
 PROJECT: EAST MONTELIER-CALAIS  
 SHEET: 17 OF 68

WOOD GUIDE POSTS @ 16' 1/2"  
 179+81 - 180+45  
 177+55 - 178+28  
 167+0 - 168+38  
 180+10 - 180+26



PLAN  
 DATE 10/27/57  
 DRAWN BY J. W. HARRIS  
 CHECKED BY J. W. HARRIS  
 PROJECT NO. 0243 (1)

ELEVATION  
 DATE 10/27/57  
 DRAWN BY J. W. HARRIS  
 CHECKED BY J. W. HARRIS  
 PROJECT NO. 0243 (1)



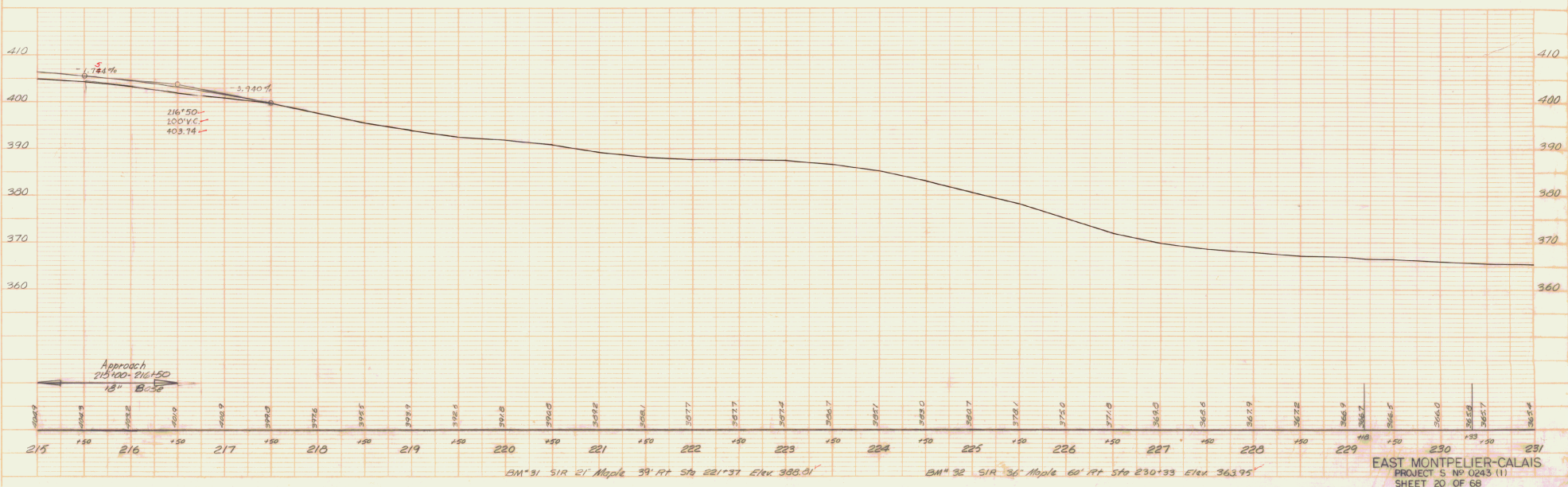
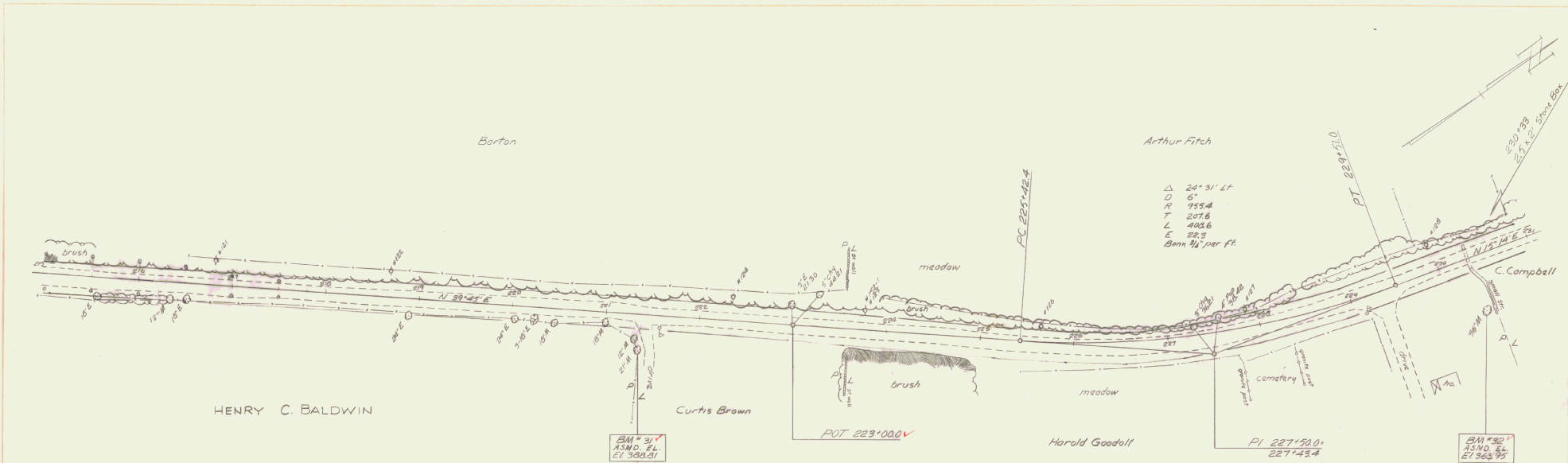
183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199

BM 27 SIR 24' Maple 25' Lt. Sta 188+68 Elev 395.10  
 BM 25 SIR 30' Maple 20' Lt. Sta 193+48 Elev 375.46



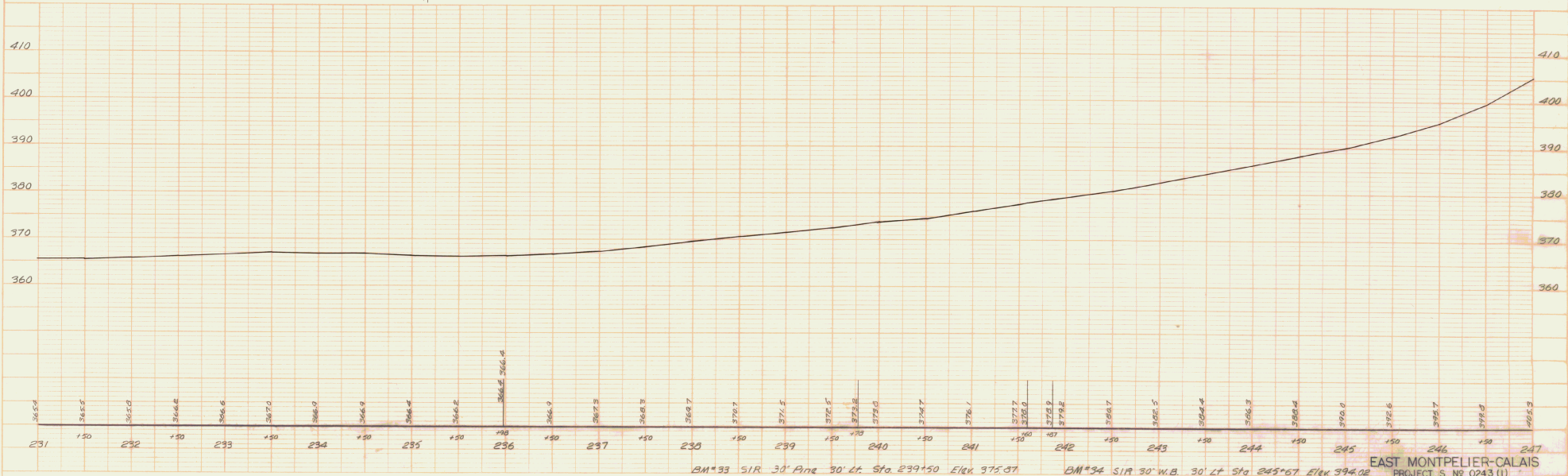
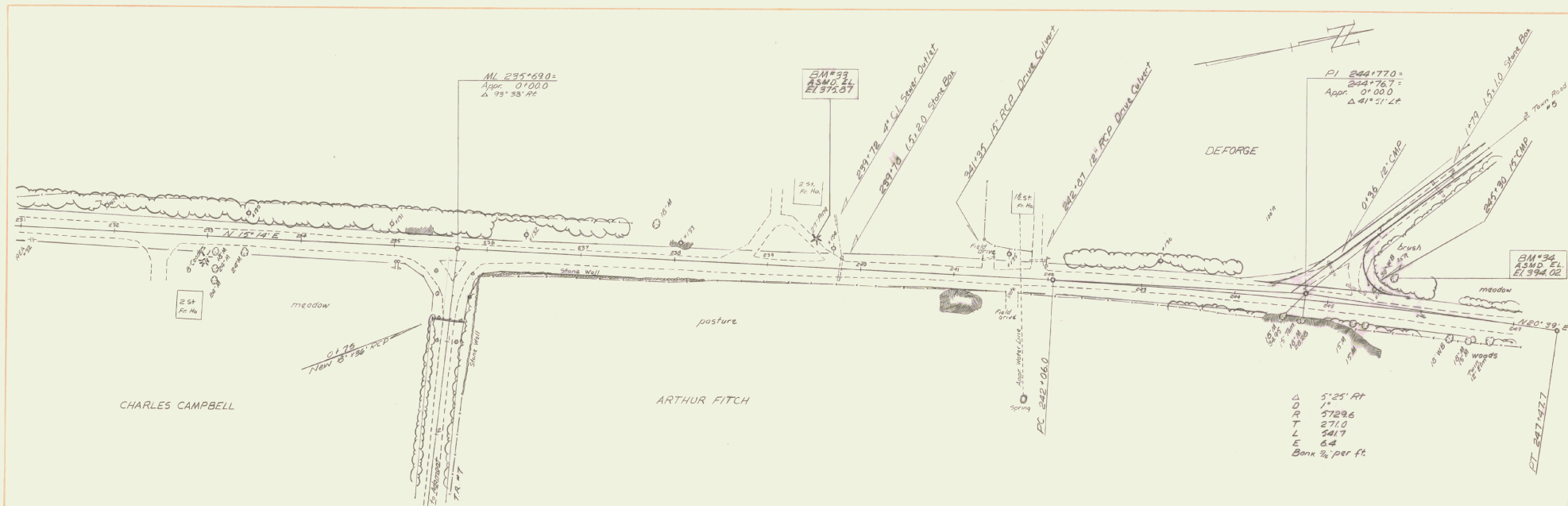
PLAN  
 DATE: 11-27  
 DRAWN BY: CALVIN CONNOLLY  
 CHECKED BY: M. Wright  
 PROJECT: EAST MONTEPELIER-CALAIS  
 SHEET: 20 OF 68

PROFILE  
 DATE: 11-27  
 DRAWN BY: CALVIN CONNOLLY  
 CHECKED BY: M. Wright  
 PROJECT: EAST MONTEPELIER-CALAIS  
 SHEET: 20 OF 68



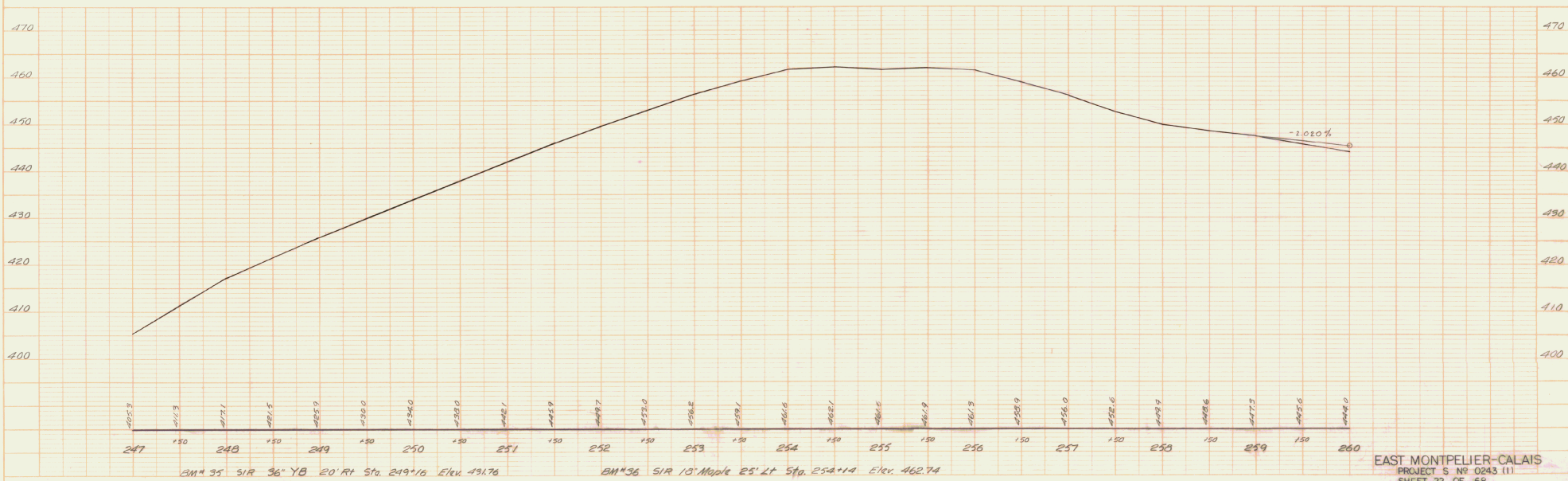
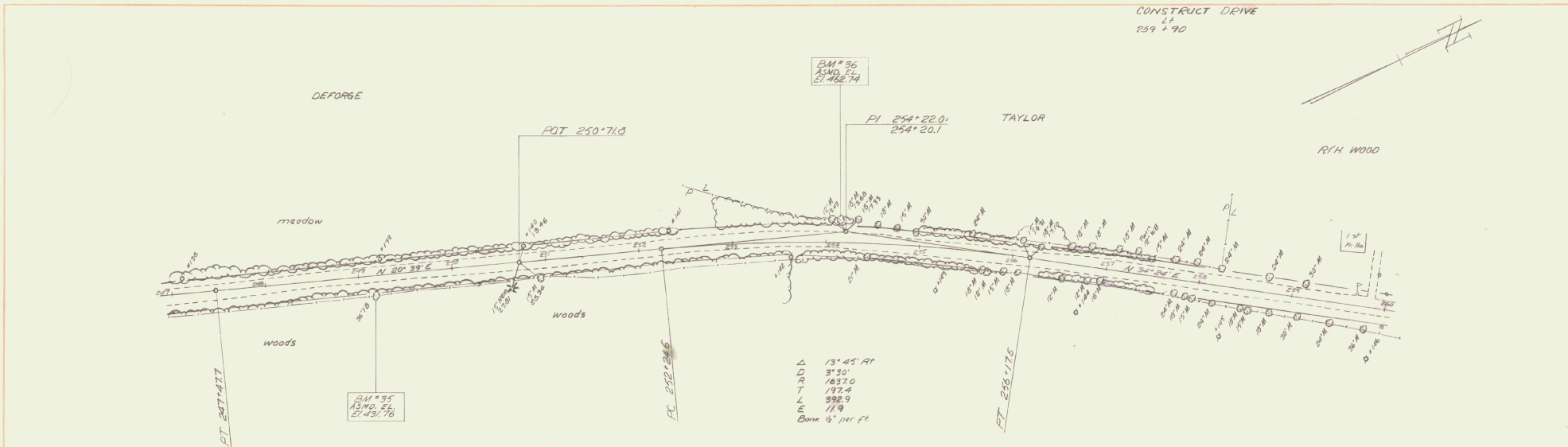
PLAN  
 PROJECT: 200000  
 SHEET: 21 OF 27  
 DATE: 11-57  
 DRAWN BY: M. HUGHES  
 CHECKED BY: M. HUGHES  
 APPROVED BY: M. HUGHES  
 TITLE: 200' W.P. CROSS-SECTION

PROFILE  
 PROJECT: 200000  
 SHEET: 21 OF 27  
 DATE: 11-57  
 DRAWN BY: M. HUGHES  
 CHECKED BY: M. HUGHES  
 APPROVED BY: M. HUGHES  
 TITLE: 200' W.P. CROSS-SECTION



PLAN  
 DATE: 11-57  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: [Signature]  
 SHEET: 22 OF 68

PROFILE  
 DATE: 11-57  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: [Signature]  
 SHEET: 22 OF 68





WOOD GUIDE POSTS @ 16' 4"  
 1. 278+95 ✓  
 2. 276+00 ✓ 277+25 ✓  
 3. 282+18 ✓ 282+66 ✓  
 4. 282+18 ✓ 282+66 ✓

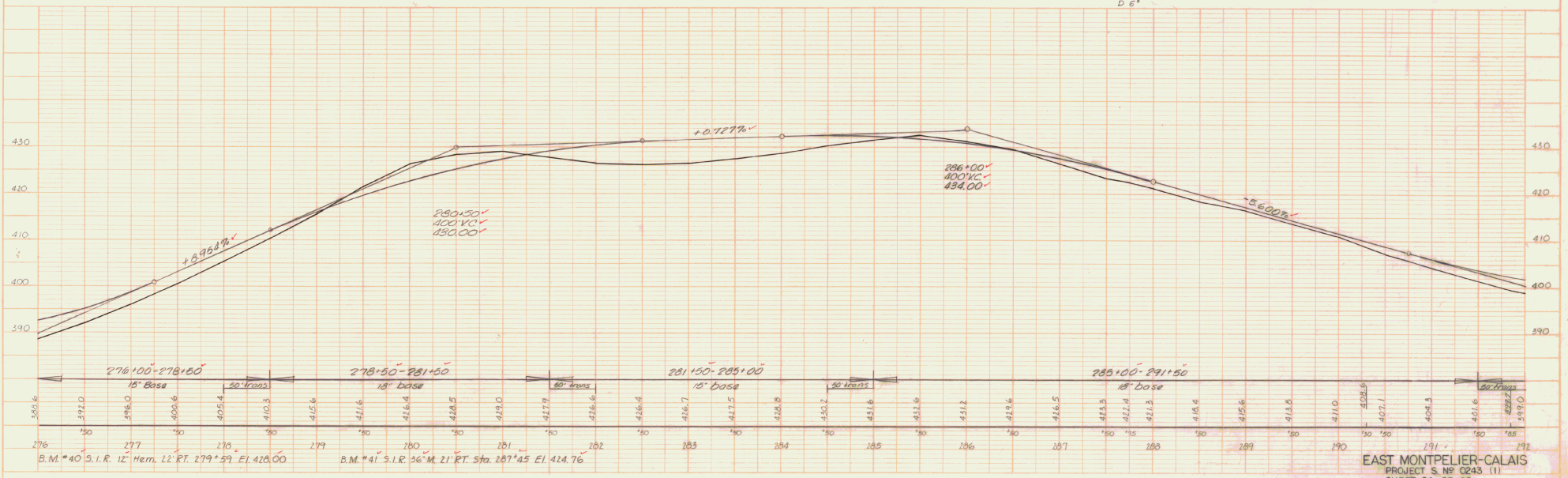
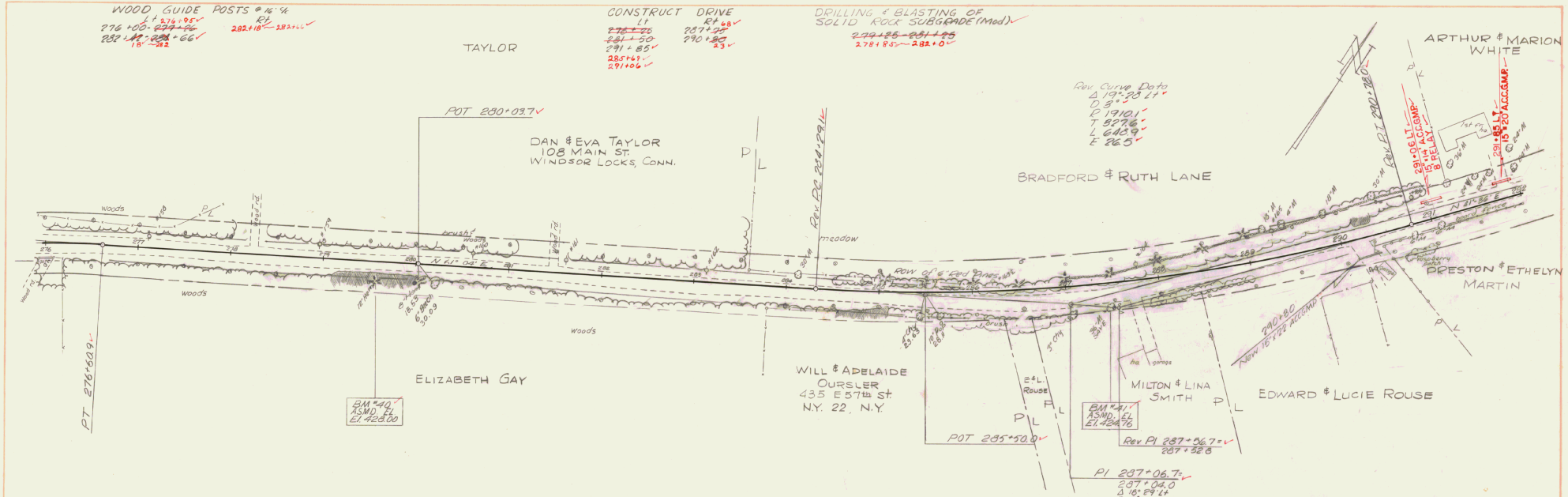
CONSTRUCT DRIVE  
 1. 276+35 ✓ 287+50 ✓  
 2. 281+50 ✓ 290+50 ✓  
 3. 285+45 ✓  
 4. 291+06 ✓

DRILLING & BLASTING OF  
 SOLID ROCK SUBGRADE (Mod) ✓  
 1. 279+25-281+25 ✓  
 2. 281+85-282+0 ✓

Rev Curve Data  
 1. 197.20 ft  
 2. 3° 30' 21"  
 P 1910.1  
 T 627.8  
 L 643.5  
 E 265

PLAN  
 SHEET NO. 11-27  
 DATE 11/1/48  
 DRAWN BY M. J. JONES  
 CHECKED BY M. J. JONES  
 IN CHARGE BY M. J. JONES

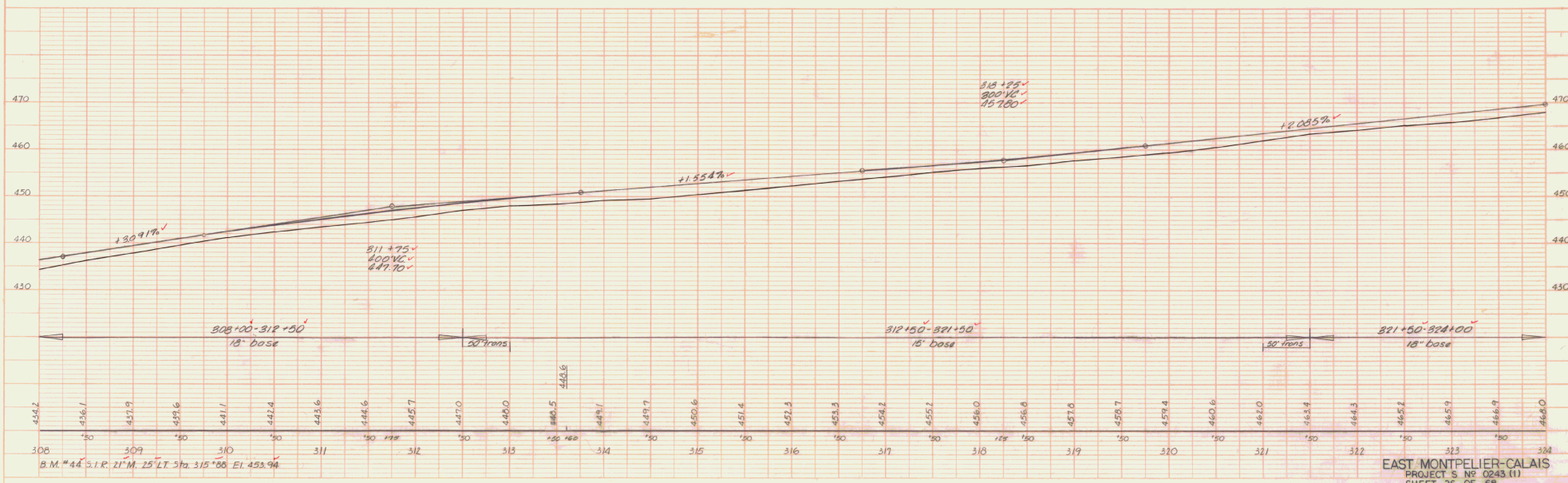
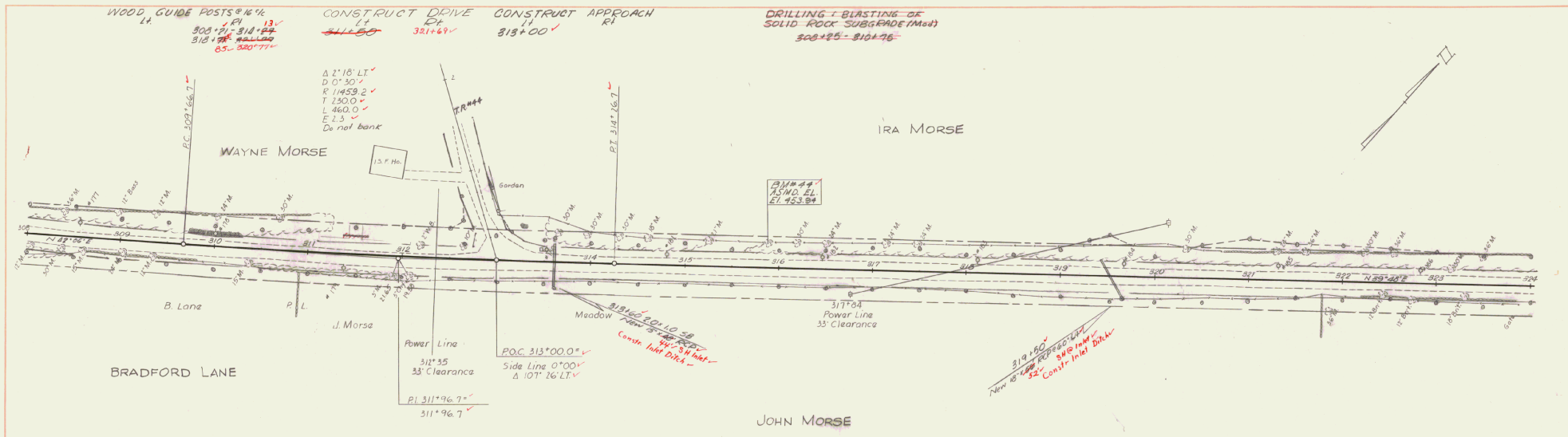
PROFILE  
 SHEET NO. 11-28  
 DATE 11/1/48  
 DRAWN BY M. J. JONES  
 CHECKED BY M. J. JONES  
 IN CHARGE BY M. J. JONES





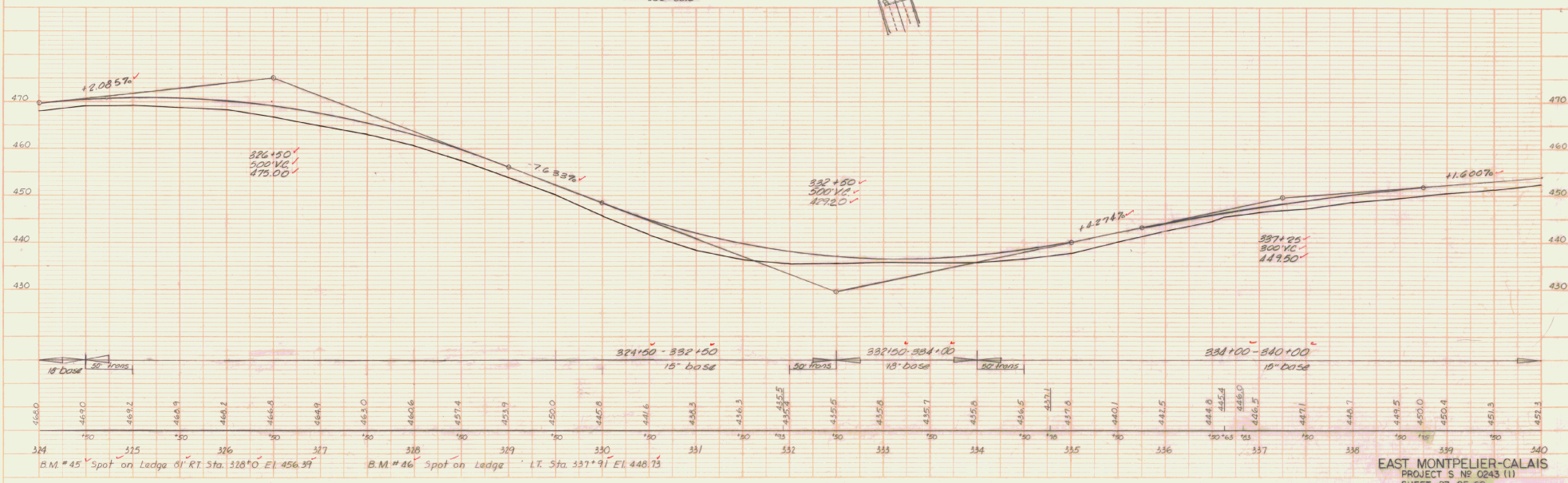
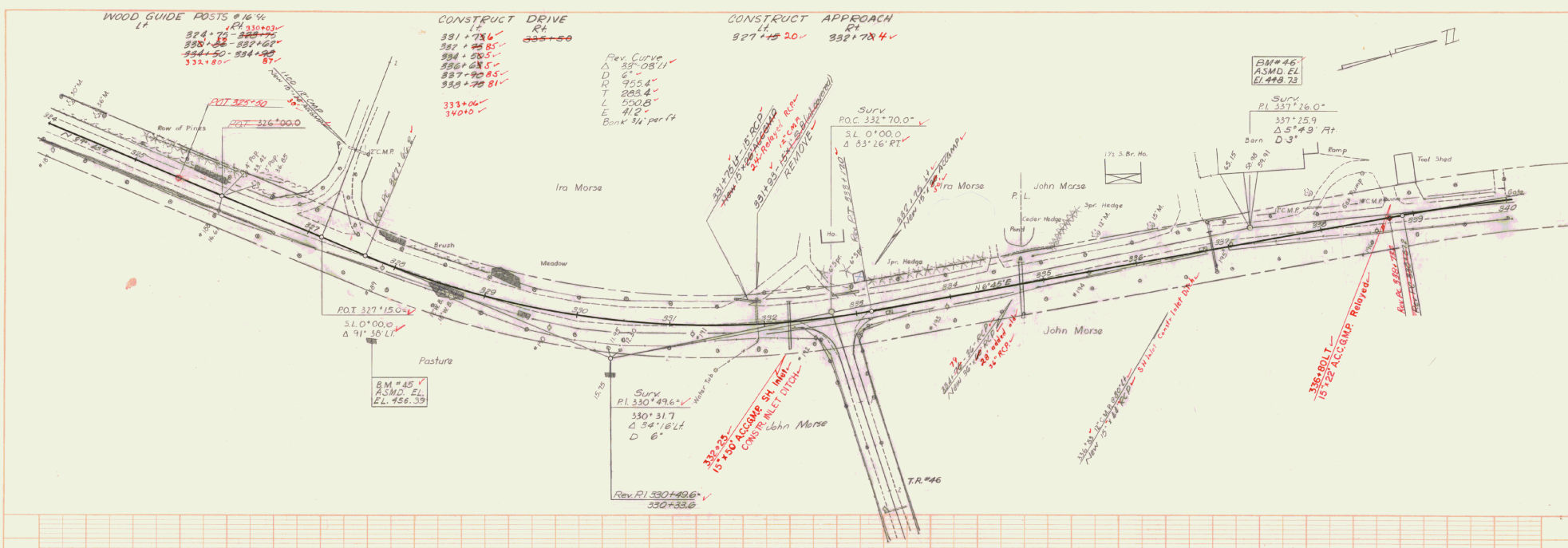
PLAN  
 DRAWN BY: J.C.  
 CHECKED BY: J.C.  
 DATE: 11/57

PROFILE  
 DRAWN BY: J.C.  
 CHECKED BY: J.C.  
 DATE: 11/57



PLAN  
 DATE: 11/27/11  
 DRAWN BY: J.C.  
 CHECKED BY: J.C.  
 SCALE: AS SHOWN  
 PROJECT: EAST MONTPELIER-CALAIS

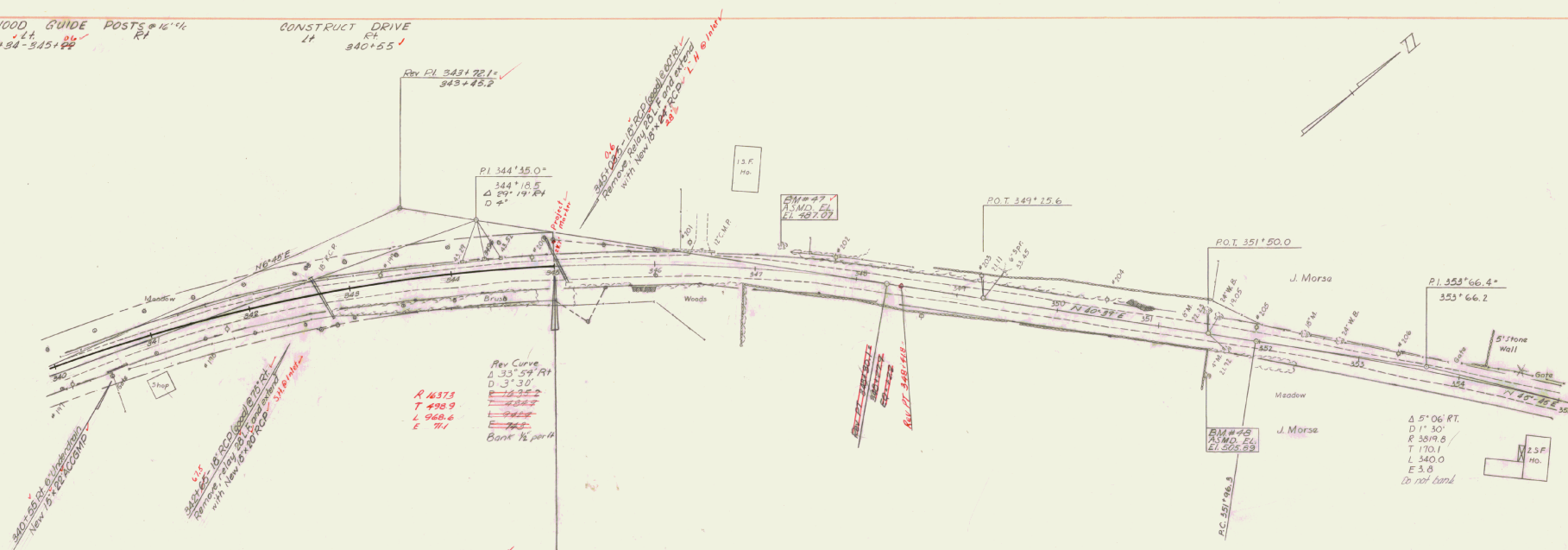
PROFILE  
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 DRAWN BY: J.C.  
 CHECKED BY: J.C.  
 SCALE: AS SHOWN  
 PROJECT: EAST MONTPELIER-CALAIS



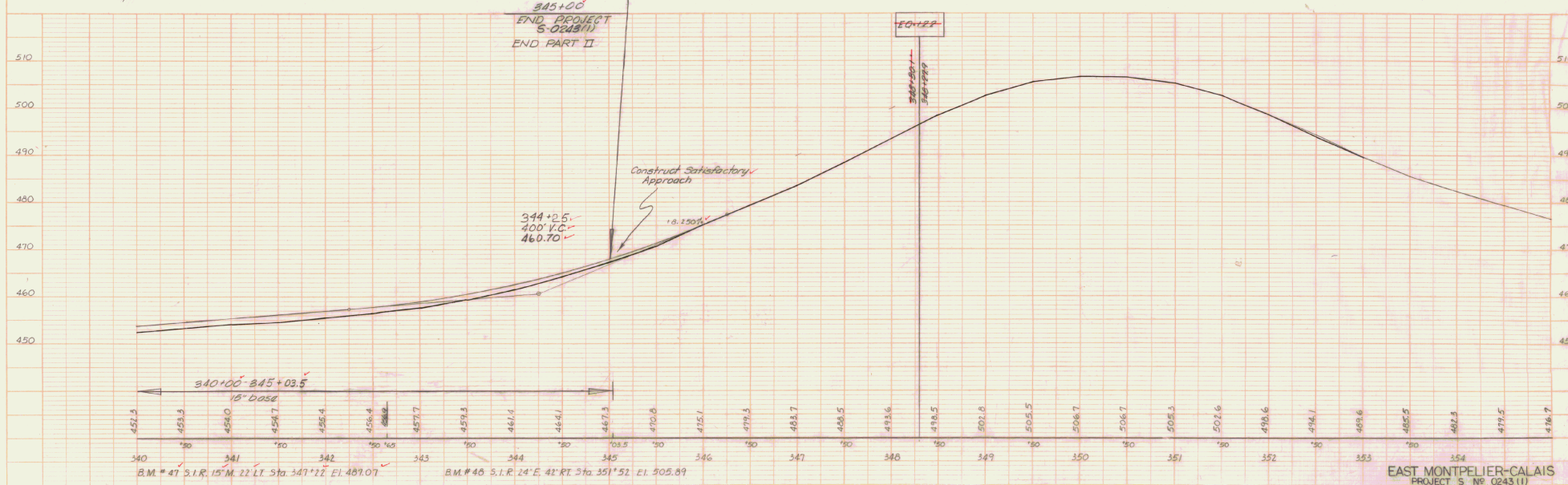
WOOD GUIDE POSTS @ 10' INT.  
 RT 342+84-345+22

CONSTRUCT DRIVE  
 RT 340+55'

PLAN	DATE	BY
11/27	J.C.	J.C.
REVISION	DATE	BY
NO.		



PROFILE	DATE	BY
11/27	J.C.	J.C.
REVISION	DATE	BY
NO.		



PLAN	DATE	DESIGNER
NO. 100	1/15	N.L.S.
REVISIONS	BY	DATE
1. APPROVED		
2. TRACKED		

PROFILE	DATE	BY
NO. 100	1/15	N.L.S.
REVISIONS	BY	DATE
1. APPROVED		
2. TRACKED		

