INDEX OF SHEETS
SEE SHEET 2

RECORD PLANS

CONTRACTOR: EARTH CONST INC - GROTON, VT.
FINISHED THRU BONDING CO. - ST PAUL MERC. INS. CO. (BOSTON, MA)
DUBOIS CONSTRUCTION INC. FINISHED FOR BONDING CO.
RESIDENT ENGINEER: LEON DUNN
CONSTRUCTION BEGAN: 9-24-91
CONSTRUCTION COMPLETED: 6-20-94
RECORD PLANS BY: CONSTRUCTION CADD - JEFF COTA

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

By: _____ Resident Engineer

Date: 4/13/97

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

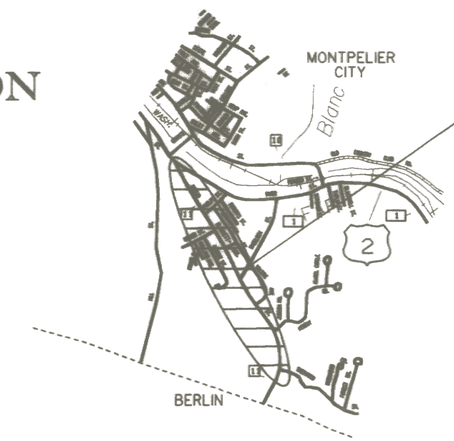
STATE OF VERMONT
AGENCY OF TRANSPORTATION

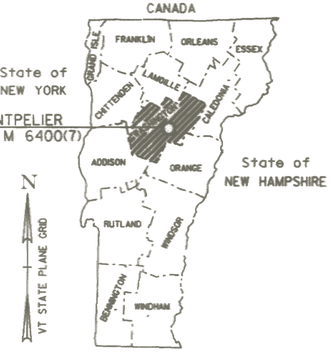
PROPOSED IMPROVEMENT
CITY OF MONTPELIER
COUNTY OF WASHINGTON
BERLIN STREET (F.A.U.)

BEGINNING AT THE INTERSECTION OF BERLIN ST. AND U.S. RTE. 2 (RIVER ST.) IN THE CITY OF MONTPELIER AND EXTENDING IN A SOUTHEASTERLY DIRECTION ALONG THE EXISTING ALIGNMENT OF BERLIN ST. FOR 1.061 MILES TO A POINT WHICH IS LOCATED APPROXIMATELY 150' NORTHEASTERLY OF THE MONTPELIER CITY-BERLIN TOWN LINE.

LENGTH OF ROADWAY = 5604.31 FEET = 1.061 MILES
LENGTH OF PROJECT = 5604.31 FEET = 1.061 MILES

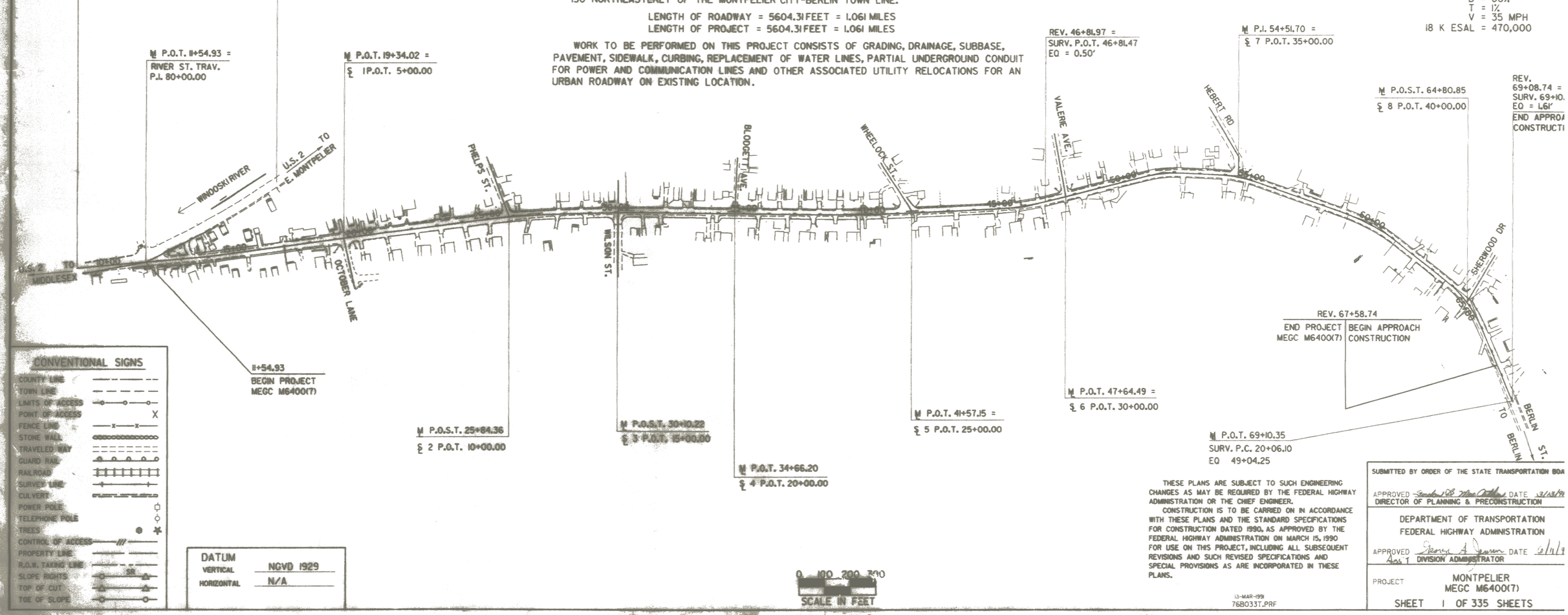
WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF GRADING, DRAINAGE, SUBBASE, PAVEMENT, SIDEWALK, CURBING, REPLACEMENT OF WATER LINES, PARTIAL UNDERGROUND CONDUIT FOR POWER AND COMMUNICATION LINES AND OTHER ASSOCIATED UTILITY RELOCATIONS FOR AN URBAN ROADWAY ON EXISTING LOCATION.





TRAFFIC DATA

1991 ADT	= 4700
1991 DHV	= 640
2011 ADT	= 6200
2011 DHV	= 805
D	= 60%
T	= 1%
V	= 35 MPH
18 K ESAL	= 470,000



CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

DATUM
VERTICAL: NGVD 1929
HORIZONTAL: N/A

0 100 200 300
SCALE IN FEET

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

13-MAR-1991
76B033T.PRF

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOA

APPROVED _____ DATE 3/13/91
DIRECTOR OF PLANNING & PRECONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE 6/11/9
Asst DIVISION ADMINISTRATOR

PROJECT MONTPELIER
MEGC M6400(7)

SHEET 1 OF 335 SHEETS

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3-5A	TYPICAL SHEETS
6-10	QUANTITY SHEETS
11-17	ITEM DETAIL AND DRAINAGE SHEETS
18	BLANK
19-22	GRADE AND EARTHWORK SHEETS
23-27	BLANK
28-56	R.O.W. DETAIL SHEETS
57-58	BLANK
59-60	TIE SHEETS
61-81	PLAN AND PROFILE SHEETS
82-101E	UTILITY SHEETS
102	FENCE DETAIL
103-112	RETAINING WALL DETAILS
113-123	TRAFFIC SIGN AND PAVEMENT MARKING SHEETS
124-132	SIGN SUMMARY SHEETS
133-135	SIGN DETAIL SHEETS
136	TRAFFIC NOTE AND DETAIL SHEET
137	CONSTRUCTION APPROACH SIGNING DETAIL
138	TRAFFIC SIGNAL LAYOUT
139	STRAIN POLE DETAIL
140-141	TRAFFIC SIGNAL NOTES AND DETAIL SHEETS
142-143	BLANK
144	PRECAST RCP DROP INLET DETAIL
145	MAILBOX DETAIL
146-242	MAINLINE CROSS SECTIONS
243-254	RIVER STREET TRAVERSE CROSS SECTIONS
255-257	OCTOBER LANE CROSS SECTIONS
258-260	PHELPS STREET CROSS SECTIONS
261-263	WILSON STREET CROSS SECTIONS
264-266	BLODGETT STREET CROSS SECTIONS
267-269	WHEELOCK STREET CROSS SECTIONS
270-272	VALERIE AVENUE CROSS SECTIONS
273-276	HEBERT ROAD CROSS SECTIONS
277-278	SHERWOOD DRIVE CROSS SECTIONS
279	BLANK
280	B-5	SLOPE GRADING, EMBANKMENTS, MUCK	12-06-71
281	B-11	UNDERDRAIN - ROCK SUBGRADE, SLOPE STABILIZ.	12-12-74 R
282	B-12	SIDE ROAD INTERSECTION, DEPRESSED RAMP	12-14-71
283	B-13	DRIVE INTERSECTIONS DEPRESSED RAMP	12-14-71
284	B-71A	RESIDENTIAL DRIVES	03-07-90 R
285	C-1	CURBS, BITUMINOUS CONCRETE SIDEWALKS	10-25-85 R
286	C-2B	CEMENT CONCRETE SIDEWALK, GRANITE CURB	10-25-85 R
287	C-3	SIDEWALK RAMPS	08-18-89 R
288	D-1	PRECAST RCP DROP INLET	12-06-71
289	D-2	C.R.M. HEADWALLS, UNDERDRAIN	10-30-85 R
290	D-3	TREATED GUTTERS	04-02-86
291	D-4	FLUSHING BASINS, END SECTION, ELBOWS	10-30-85 R
292	D-6	REINF. CONCRETE DROP INLET W/GRATE (DITCHES)	04-04-73
293	D-8	REINFORCED CONCRETE DROP INLET	12-06-71
294	D-9	REINFORCED CONCRETE DROP INLET TOPS	12-06-71
295	D-11	GRATES & COVERS (TYPE A)	08-24-81 R
296	D-13	REINFORCED CONCRETE MANHOLE & CATCH BASIN	08-10-81 R
297	D-15	PRECAST REINF. CONC. MH-GRATES (BICYCLE SAFE)	10-30-85 R
298	D-16	PRECAST CURB DI, GRATE, RCP END SECTION, ETC.	10-30-85 R
299	D-20	HIGHWAY CROSSING FOR UNDERGROUND UTILITIES	10-30-85 R
299 A.	D-22	SANITARY SEWER SYSTEMS	10-01-76
300	E-9	UTILITY WORK ZONE	02-03-86 R
301	E-10	APPROACH SIGNS, MINOR MAINTENANCE	02-03-86 R
302	E-10A	APPROACH SIGNS, TYPICAL MOVING	02-03-86 R
303	E-100	CONSTRUCTION APPROACH SIGNS	05-26-89 R
304	E-101	CONSTRUCTION SIGN DETAILS	10-30-87
305	E-102	CONSTRUCTION SIGN DETAILS	01-23-89 R
305 A.	E-106	TRAFFIC CONTROL-MISCELLANEOUS DETAILS	01-23-89 R
306	E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	04-29-88 R
307	E-107A	BREAKAWAY BARRICADE DETAILS	09-10-87
308	E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	03-01-88 R
309	E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	06-21-89 R
310	E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	01-23-89
311	E-123	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	01-23-89 R
312	E-124	TOWN LINE SIGNS	01-23-89
313	E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	12-18-89
314	E-130	TYPE ''B'' GUIDE SIGN, ATTACHMENT DETAILS	03-01-88 R
315	E-136	U.S. AND STATE ROUTE MARKER SIGN DETAILS	04-29-88 R
316	E-140	REGULATORY SIGN DETAILS	04-25-88 R
317	E-141	REGULATORY SIGN DETAILS	10-30-87
318	E-142	REGULATORY SIGN DETAILS	10-30-87
319	E-143	REGULATORY SIGN DETAILS	10-30-87
320	E-144	REGULATORY SIGN DETAILS	01-23-89
321	E-150	WARNING SIGN DETAILS	10-30-87
322	E-151	WARNING SIGN DETAILS	10-30-87
323	E-152	WARNING SIGN DETAILS	10-30-87
324	E-160	FLANGED CHANNEL STEEL SIGN POST DETAIL	03-01-88 R
325	E-162	TUBULAR ALUMINUM SIGN POST	03-01-88 R
325 A.	E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	06-21-89
326	E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	06-21-89
327	E-171B	TRAFFIC CONTROL SIGNALS MISC. DETAILS	06-21-89
328	E-172	VEHICLE DETECTOR LOOP DETAILS	09-10-87
329	E-173	PULL BOXES AND JUNCTION BOXES	05-26-89 R
330	E-191	PAVEMENT MARKING DETAILS	01-23-89 R
331	G-1	STEEL BEAM GUARDRAIL (50MPH & OVER)	10-31-85 R
332	J-1	PROJECT AND BOUNDARY MARKERS	06-27-80
333	J-5	TREE WELLS, BRACING, PICNIC TABLES, ETC.	12-19-72 R
334	T-1	TEMPORARY EROSION CONTROL DETAILS	12-07-76 R
335	T-2	TEMPORARY EROSION CONTROL DETAILS	07-05-72

DATUM
VERTICAL _____
HORIZONTAL _____

ARCHIVED ON CADD

SURVEYED BY MOREAU DATE 7-85
DRAWN BY SGN DATE 9-90
SQUAD LEADER TDS
DESIGN FILE NO. MONT.DGN
IPARM FILE MONTIND.PRF DATE PLOTTED 29-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 2 OF 335 SHEETS

SEEDING FORMULA , ITEM 651.15
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUE GRASS	85	75
31.25	25	PERENIAL RYE GRASS	95	90
100.00	80			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED- TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER- FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.

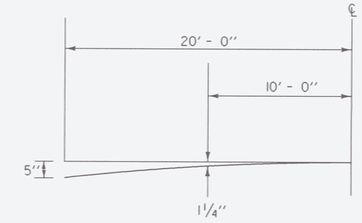
SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

TYPICAL SECTIONS

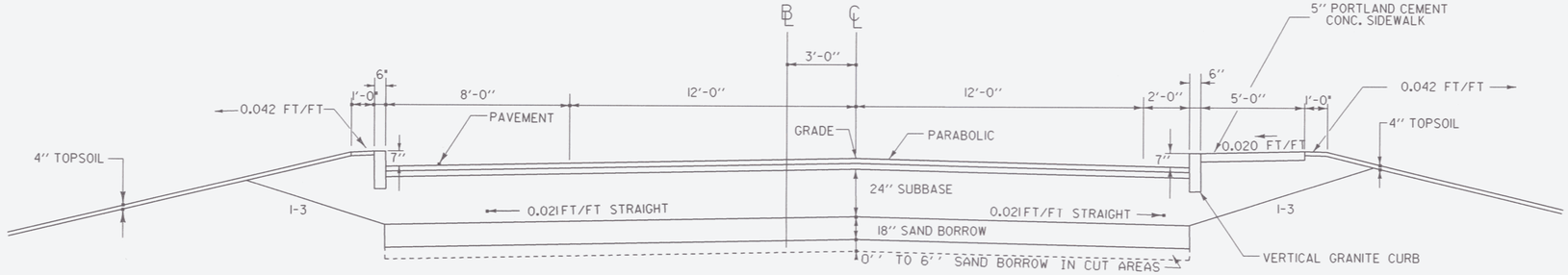
3'' BITUMINOUS CONCRETE PAVEMENT
(1 1/4" TYPE III OVER 1 3/4" TYPE II)
4'' BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT TYPE I (SINGLE LIFT)
24'' SUBBASE OF DENSE GRADED CRUSHED STONE
18'' SAND BORROW
0'' TO 6'' SAND BORROW AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER

PERMISSIBLE THICKNESS TOLERANCES

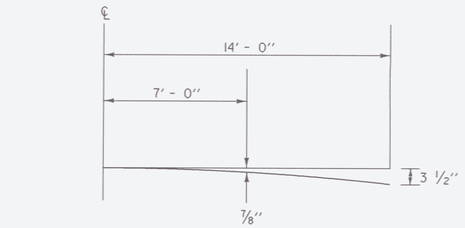
PAVEMENT	±1/4''
BASE COURSE	±1/2''
SUBBASE	±1''
SAND BORROW	±1''



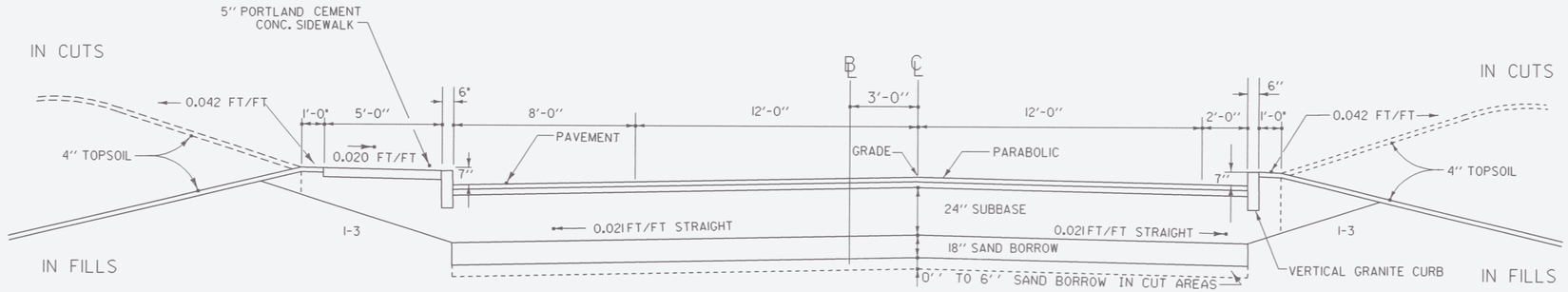
PARABOLIC DETAIL



NORMAL SECTION
U.S. 2 TO OCT. LANE
STA. 11+54.93 TO 19+34.02

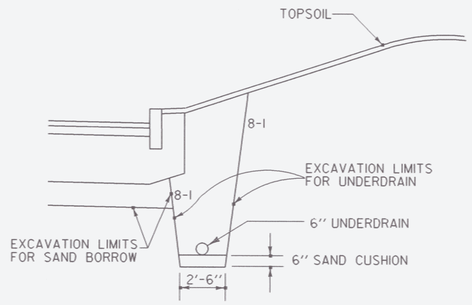


PARABOLIC DETAIL



NORMAL SECTION

OCT. LANE TO WHEELOCK ST.
STA. 19+34.02 TO 41+57.15



SAND BORROW EXCAVATION
UNDERDRAIN PAY LIMITS

ARCHIVED ON CADD

MONTTYPI 22-FEB-1996

SURVEYED BY _____ DATE _____
DRAWN BY REDMOND DATE 6-87
TRACED BY _____ DATE _____

MONTPELIER
PROJ. MEGC-M6400(7)
SHEET 3 OF 335 SHEETS

NOT TO SCALE

SEEDING FORMULA , ITEM 651.15
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUE GRASS	85	75
31.25	25	PERENIAL RYE GRASS	95	90
100.00	80			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED- TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER- FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

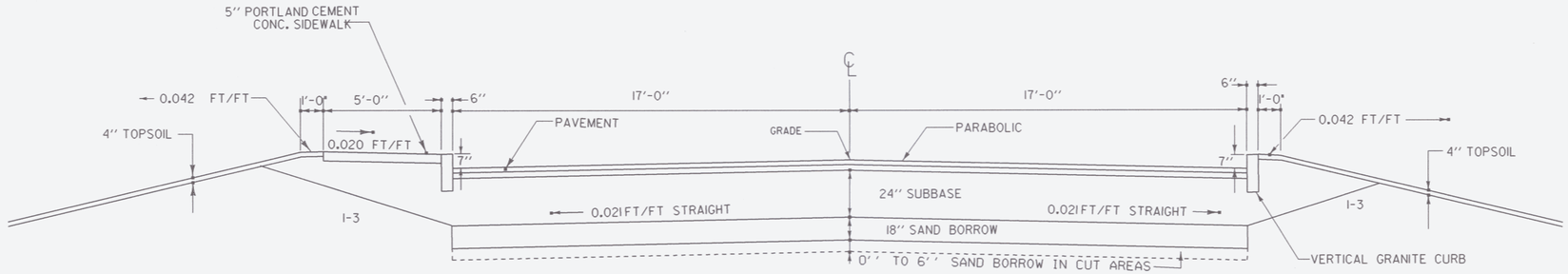
TYPICAL SECTIONS

NOT TO SCALE

3" BITUMINOUS CONCRETE PAVEMENT
(1 1/4" TYPE III OVER 1 3/4" TYPE II)
4" BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT TYPE I (SINGLE LIFT)
24" SUBBASE OF DENSE GRADED CRUSHED STONE
18" SAND BORROW
0" TO 6" SAND BORROW AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER

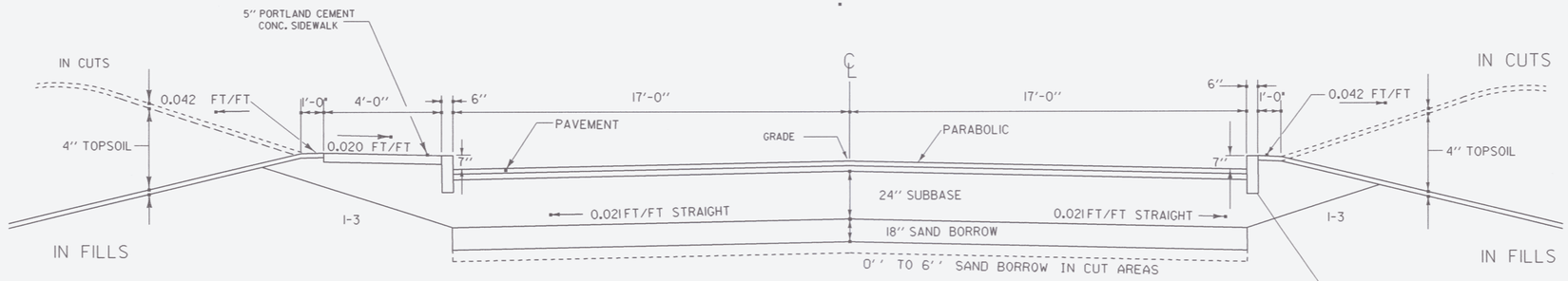
PERMISSIBLE THICKNESS TOLERANCES

PAVEMENT	±1/4"
BASE COURSE	±1/2"
SUBBASE	±1"
SAND BORROW	±1"



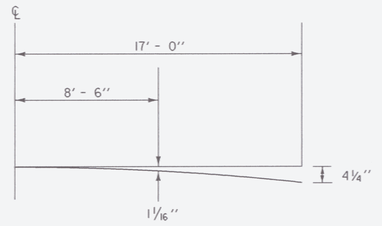
NORMAL SECTION

STA. 41+57.15 TO 47+64.49 (WHEELOCK ST. TO VALERIE AVE.)



NORMAL SECTION

STA. 47+64.49 TO 54+51.70 (VALERIE AVE. TO HEBERT ROAD)



PARABOLIC DETAIL

ARCHIVED ON CADD

MONT2 22-FEB-1996

SURVEYED BY _____ DATE _____
DRAWN BY REDMOND DATE 6-87
TRACED BY _____ DATE _____

MONTPELIER
PROJ. MEGC M6400(7)
SHEET 4 OF 335 SHEETS

SEEDING FORMULA , ITEM 651.15
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUE GRASS	85	75
31.25	25	PERENIAL RYE GRASS	95	90
100.00	80			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED- TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER- FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

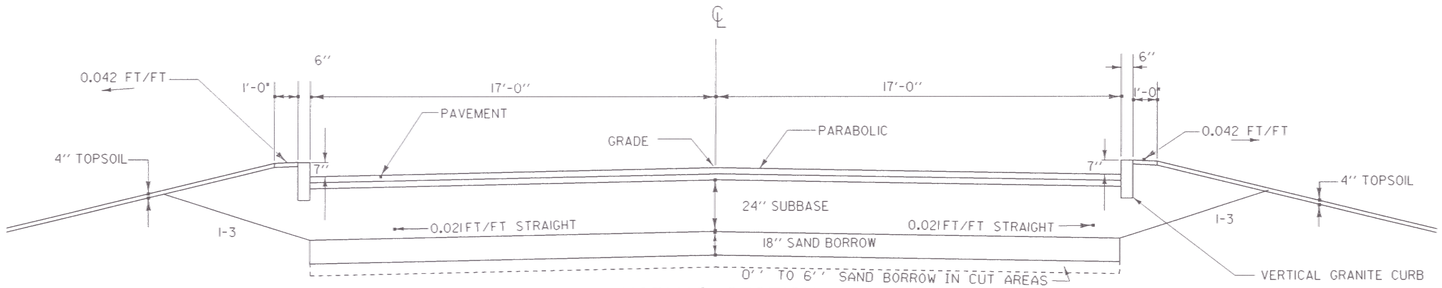
TYPICAL SECTIONS

NOT TO SCALE

3" BITUMINOUS CONCRETE PAVEMENT
(1 1/4" TYPE III OVER 1 3/4" TYPE II)
4" BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT TYPE I (SINGLE LIFT)
24" SUBBASE OF DENSE GRADED CRUSHED STONE
18" SAND BORROW
0" TO 6" SAND BORROW AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER

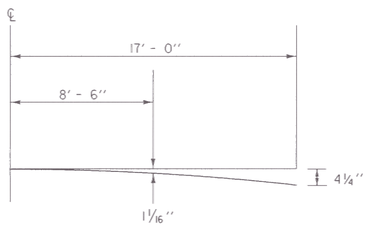
PERMISSIBLE THICKNESS TOLERANCES

PAVEMENT	±1/4"
BASE COURSE	±1/2"
SUBBASE	±1"
SAND BORROW	±1"

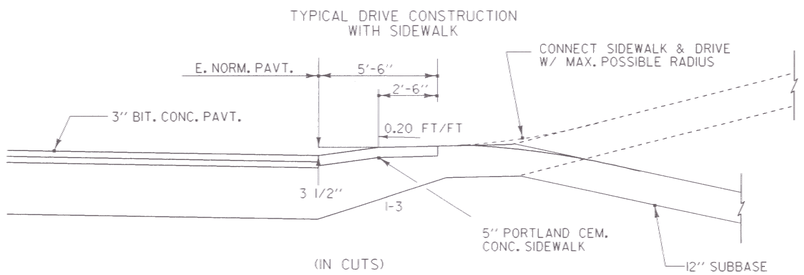


NORMAL SECTION

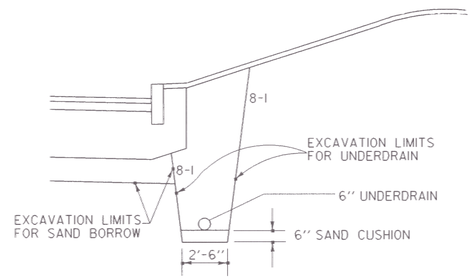
STA. 54+51.70 TO 69+10.35 (HEBERT ROAD TO END OF PROJECT)



PARABOLIC DETAIL



(IN CUTS)



SAND BORROW EXCAVATION
UNDERDRAIN PAY LIMITS

ARCHIVED ON CADD

MONT3 22-FEB-1996

SURVEYED BY _____ DATE _____
DRAWN BY REDMOND DATE 6-87
TRACED BY _____ DATE

MONTPELIER
PROJ. M 6400(7)

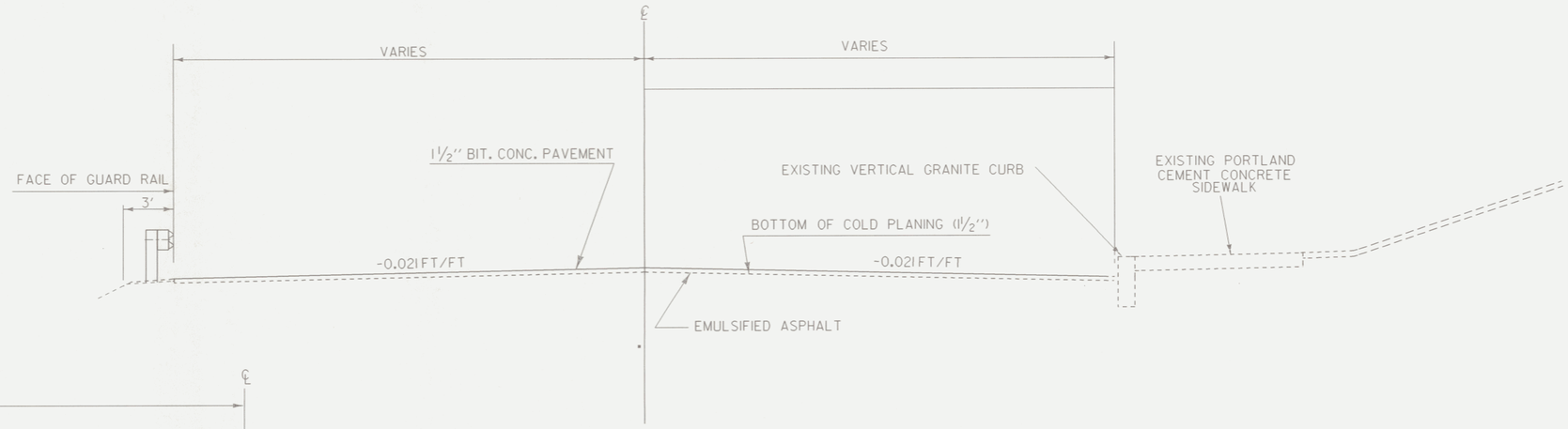
SHEET 5 OF 335 SHEETS

TYPICAL SECTIONS

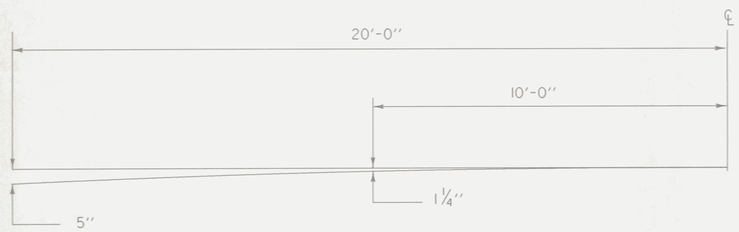
1½" BITUMINOUS CONCRETE PAVEMENT, TYPE III

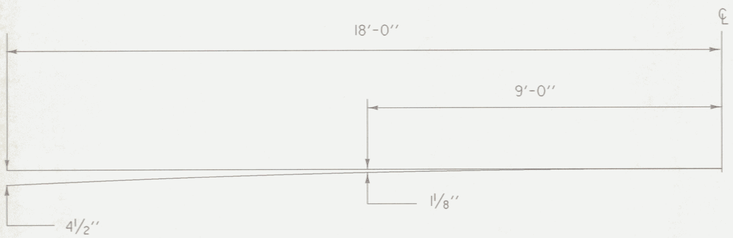
EMULSIFIED ASPHALT TO BE APPLIED AT
A RATE OF 0.015 GAL./S.Y.

MATERIAL ITEM	THICKNESS TOLERANCE
BITUMINOUS	± ¼"



NORMAL SECTION W/ SIDEWALK ON RIGHT SIDE





LOCATION	BEGIN STATION	END STATION	TYPICAL	WEARING
BERLIN ST. APPR.	8+90	11+00	20-20	1½"
RIVER ST. APPR.	SL 80+85	SL 86+10	18-18	1½"

ARCHIVED ON CADD

DATUM
VERTICAL _____
HORIZONTAL _____

SURVEYED BY _____ DATE _____
DRAWN BY const DATE 11-90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. /usr/const/76b033/cb033a
PRF FILE 76B033PT.PRF DATE PLOTTED 21-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M6400(7)
SHEET 5A OF 335 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

LAND-SCAPING	R.O.W.	TRAINING	NON GOVT. PARTICIP.	EROSION CONTROL	(RET. WALL) BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
						1	1	LS	CLEARING AND GRUBBING	201.10	
			1			10	11	EA	REMOVING SMALL TREES	201.15	
						1	1	EA	REMOVING LARGE TREES	201.16	
			4			4	8	EA	REMOVING SMALL STUMPS	201.20	
			2			2	4	EA	REMOVING LARGE STUMPS	201.21	
			220			31100	31320	CY	COMMON EXCAVATION	203.15	
						500	500	CY	SOLID ROCK EXCAV. (INCL. 330 C.Y. EST)	203.16	
						4400	4400	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	
						14800	14800	CY	SAND BORROW	203.31	
						200	200	CY	GRANULAR BORROW (EST.)	203.32	
						25800	25800	SY	FINE GRADING-SUBGRADE	203.40	
			7590	109		14201	21900	CY	TRENCH EXCAVATION OF EARTH	204.20	
			60			500	560	CY	TRENCH EXCAVATION OF ROCK	204.21	
					780	720	1500	CY	STRUCTURE EXCAVATION	204.25	13
			10		610	390	1010	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	
						1000	1000	SY	DRILLING AND BLASTING OF SOLID ROCK SUBGRADE (EST)	205.20	
						3950	3950	SY	COLD PLANING BIT. PAVEMENT	210.10	
			500				500	CY	EXCAV. OF CL. I CONTAM. SOILS	215.20	EST.
			500				500	CY	EXCAV. OF CL. II CONTAM. SOILS	215.21	EST.
			24			377	401	CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26	
			74	545		19200	19819	CY	SUBBASE DENSE GRADED CRUSHED STONE	301.35	
						40	40	CWT	EMULSIFIED ASPHALT	404.65	
			28			10500	10528	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	
					239	186	425	CY	CONCRETE CLASS B	501.25	
					260		260	LB	STRUCTURAL STEEL	506.60	
						14500	14500	LB	REINFORCING STEEL	507.15	
						40	40	LF	DRILLING & GROUTING DOWELS	507.16	
					25890		25890	LB	EPOXY COATED REINFORCING STEEL	507.17	
					26		26	GAL	WATER REPELLANT	514.10	
						0.25	0.25	MFBM	NON-STRUCTURAL LUMBER - TREATED	522.35	
					126	56	182	LF	METAL HAND RAIL, (1 RAIL)	525.15	
					367		367	LF	METAL HAND RAILING, (3 RAIL) (MOD.)•	525.15	
			1				1	EA	CONCRETE VAULT, TYPE II	540.22	
			2				2	EA	CONCRETE VAULT	540.24	
						40	40	LF	12'' CSP .064	601.0005	
						4	4	LF	24'' CSP .064	601.0025	
						44	44	LF	42'' CSP .109	601.0052	
								•	FOR MOD. RAIL DETAILS SEE SHT. 108 OF 335		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
25570	CY	ROADWAY
928	CY	DRIVES(1398 CY LESS 220 CY NON-PART.)
758	CY	APPROACHES
4	CY	WALKS
3806	CY	EST. FOR SAND BORROW UNDERCUT
34	CY	ROUNDING
31100	CY	TOTAL
		FINE GRADING SUBGRADE
21839	SY	MAINLINE
3236	SY	DRIVES
633	SY	APPROACHES
92	SY	ROUNDING
25800	SY	TOTAL
		TRENCH EXCAVATION OF EARTH
4930	CY	DESIGNED DRAINAGE
5415	CY	DESIGNED UNDERDRAIN
3817	CY	EST. UNDERDRAIN
39	CY	ROUNDING
14201	CY	TOTAL
		TRENCH EXCAVATION OF ROCK
151	CY	DESIGNED DRAINAGE
262	CY	DESIGNED UNDERDRAIN
50	CY	EST. UNDERDRAIN
8	CY	REMOVE RETAINING WALL @ 38+60 RT
29	CY	ROUNDING
500	CY	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
17651	CY	MAINLINE
694	CY	APPROACHES
716	CY	DRIVES (790 CY LESS 74 CY NON-PART. FOR DRIVE AT 49+60 RT.)
139	CY	ROUNDING
19200	CY	TOTAL
		BITUMINOUS CONCRETE PAVEMENT
8453	TON	MAINLINE
1176	TON	WINTER PAVEMENT(EST)
586	TON	APPROACHES
253	TON	DRIVES (278 TONS LESS 25 TONS NON-PART. FOR DRIVE AT 49+60 RT.)
32	TON	ROUNDING
10500	TON	TOTAL
		SAND BORROW
10982	CY	DESIGNED FOR FROST PROTECTION
3806	CY	UNDERCUT IN CUT AREAS
12	CY	ROUNDING
14800	CY	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		PORTLAND CEMENT CONC. SIDEWALK, 5''
2685	SY	SIDEWALKS
12	SY	PRIVATE WALKS
43	SY	DRIVE AT 28+79 RT.
10	SY	ROUNDING
2750	SY	TOTAL
		STONE FILL, TYPE I
43	CY	DRAINAGE SHEET
1	CY	SLOPE PROTECTION
1	CY	ROUNDING
45	CY	TOTAL
		STONE FILL, TYPE II
4	CY	DRAINAGE SHEET
49	CY	SLOPE PROTECTION
7	CY	ROUNDING
60	CY	TOTAL
		TEMPORARY EROSION CONTROL
		(INCLUDED IN EROSION CONTROL ITEMS)
109	CY	TRENCH EXCAV. OF EARTH
545	CY	SUBBASE OF DENSE GRADED CRUSHED STONE
55	CY	STONE FILL, TYPE I
174	LB	SEED, WINTER RYE
4	TON	HAY MULCH
218	SY	EROSION MATTING
500	SY	GEOTEXTILE FABRIC FOR SILT FENCE
200	SY	GEOTEXTILE FABRIC FOR FILTER CURTAINS
100	EA	HAY BALES FOR EROSION CONTROL
		CONCRETE CLASS B
160	CY	DRAINAGE SHEET(SEE NOTE ON SHEET 17)
19	CY	REPAIRING P.C.C. PAVEMENT AT RIVER ST. PIPE CROSSINGS
7	CY	ROUNDING
186	CY	TOTAL
		REINFORCING STEEL
12500	LB	DRAINAGE SHEET(SEE NOTE ON SHEET 17)
214	LB	DOWELS FOR P.C.C. PAVEMENT
1520	LB	P.C.C. PAVEMENT REINFORCING
266	LB	ROUNDING
14500	LB	TOTAL
		EXCAVATION OF SURFACES AND PAVEMENTS
5	CY	SIDEWALKS
2906	CY	REMOVING EXISTING MAINLINE PAVE.(EST.)
1176	CY	REMOVING WINTER PAVEMENT(EST.)
250	CY	DRIVES(EST.)
63	CY	ROUNDING
4400	CY	TOTAL

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS	34'	EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS
11+54.93	41+57.15		3002.22			3002.22	0.569	U.S. 2 TO WHEELOCK ST.
41+57.15	46+81.97		524.82			524.82	0.099	WHEELOCK ST. TO END
46+81.97	67+58.74		2077.27	0.50		2077.27	0.393	
TOTALS						5604.31	1.061	

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JAN. 21,1991

MONTQ1

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7)

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

LAND-SCAPING	R.O.W.	TRAINING	NON GOVT. PARTICIP.	EROSION CONTROL	(RET. WALL) BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
									** BEGIN OPTION PIPES **		
						154	154	LF	12'' CSP .064	601.0005	
						154	154	LF	12'' CAAP .060	601.0205	
						4354	4354	LF	18'' CAAP .060	601.0215	
						4354	4354	LF	18'' PCCSP .064	601.0415	
						1406	1406	LF	24'' CAAP .060	601.0225	
						1406	1406	LF	24'' PCCSP .064	601.0425	
						580	580	LF	30'' CAAP .075	601.0236	
						580	580	LF	30'' PCCSP .079	601.0436	
						106	106	LF	36'' CAAP .075	601.0246	
						106	106	LF	36'' PCCSP(PI) .079	601.0646	
						28	28	LF	42'' CAAP .105	601.0252	
						28	28	LF	42'' PCCSP .109	601.0452	
						402	402	LF	48'' CAAP .105	601.0257	
						402	402	LF	48'' PCCSP .109	601.0457	
						46	46	LF	66'' X 51'' CAAPA .105	601.3332	
						46	46	LF	66'' X 51'' PCCSPA .109	601.3732	
						2	2	EA	12'' CSP ELBOW .064	601.5005	
						2	2	EA	12'' CAAP ELBOW .060	601.5205	
									** END OPTION PIPES **		
						200	200	LF	RELAY PIPE CULV. (INCLUDES 160' EST.)	601.99	
						500	500	LF	CLEANING CULVERT PIPE IN PLACE	601.995	EST.
						4	4	CY	CEMENT RUBBLE MASONRY	602.15	
			20				20	CY	DRY RUBBLE MASONRY	602.20	
						5	5	EA	CONCRETE CATCH BASIN W/CI GRATE	604.10	
			1				1	EA	PRECAST REINF. M.H. W/ C.I. COVER(MOD.)	604.21	
			2				2	EA	INSTALLATION OF SEWER MH	604.22	
						42	42	EA	PRC PIPE DI W/CI GRATE	604.25	
			24			3	27	EA	CHANGE ELEVATION OF DI, CB, OR MH	604.40	
						4	4	EA	CAST IRON GRATE W/FRAME TYPE B	604.46	
			11				11	EA	CAST IRON COVER W/FRAME	604.50	
						2	2	EA	CAST IRON GRATE W/ FRAME TYPE D	604.51	
						40	40	EA	CAST IRON GRATE W/FRAME TYPE E	604.52	
						11200	11200	LF	6'' UNDERDRAIN	605.10	
						420	420	LF	6'' UNDERDRAIN CARRIER PIPE	605.20	
						55	55	EA	UNDERDRAIN FLUSHING BASIN	605.95	1
						85	85	HR	ROADWAY PATROL MAINTENANCE (EST.)	607.10	
						1	1	HR	BULLDOZER RENTAL, TYPE I *(N.A.B.I.)	608.10	
						1	1	HR	ALL PUR. EX. RENT., TYPE I *(N.A.B.I.)	608.25	
						1	1	HR	TRUCK RENTAL *(N.A.B.I.)	608.37	
						1	1	HR	LOADER RENTAL, TYPE I *(N.A.B.I.)	608.40	
			400				400	HR	LOADER RENTAL, TYPE I (MOD.)	608.40	EST.
						1500	1500	MGAL	DUST CONTROL WITH WATER	609.10	EST.
						10	10	TON	DUST AND ICE CONTROL W/CALC. CHLORIDE	609.15	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		* NOT A BID ITEM

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS
TOTALS									

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MONT02

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7)

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

LAND-SCAPING	R.O.W.	TRAINING	NON GOVT. PARTICIP.	EROSION CONTROL	(RET. WALL) BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				55		45	100	CY	STONE FILL, TYPE I	613.10	
			10			60	70	CY	STONE FILL, TYPE II	613.11	
						65	65	CY	STONE FILL, TYPE IV	613.13	4
						9850	9850	LF	VERTICAL GRANITE CURB	616.21	10
						115	115	LF	REMOVING AND RESETTING CURB	616.40	
						5	5	EA	RELOCATE MAILBOX-SINGLE SUPPORT	617.10	EST.
						5	5	EA	RELOCATE MAILBOX-MULTIPLE SUPPORT	617.12	EST.
						2750	2750	SY	PORTLAND CEMENT CONC. SIDEWALK 5''	618.10	
						7	7	TON	BITUMINOUS CONCRETE SIDEWALK	618.15	
						100	100	EA	BOUNDARY MARKERS	619.10	EST.
						50	50	EA	REMOVING AND RESETTING PROP. MARKER	619.20	EST.
			84				84	LF	CHAIN LINK FENCE - 4 FEET (MOD.) • SEE SHEET #102	620.11•	
						75	75	LF	REMOVING AND RESETTING FENCE	620.50	4
						50	50	LF	REMOVING AND RESET GUARD RAIL	621.75	
			250				250	LF	DUCT, CONCRETE ENCASED, 1-3''	624.20	
			395				395	LF	DUCT, CONCRETE ENCASED, 1-3'', 1-4''	624.20	
			60				60	LF	DUCT, CONCRETE ENCASED, 1-4''	624.20	
			280				280	LF	DUCT, CONCRETE ENCASED, 2-3''	624.20	
			18				18	LF	DUCT, CONCRETE ENCASED, 4-3''	624.20	
			395				395	LF	DUCT, CONCRETE ENCASED, 4-4''	624.20	
			80				80	LF	DUCT, CONCRETE ENCASED, 4-4'', 1-3''	624.20	
			105				105	LF	DUCT, CONCRETE ENCASED, 4-4'', 2-3''	624.20	
			22				22	LF	DUCT, CONCRETE ENCASED, 4-4'', 3-3''	624.20	
			145				145	LF	DUCT, CONCRETE ENCASED, 4-6''	624.20	
			215				215	LF	DUCT, CONCRETE ENCASED, 4-6'', 2-3''	624.20	
			57				57	LF	DUCT, CONCRETE ENCASED, 4-6'', 4-3''	624.20	
			35				35	LF	DUCT, CONCRETE ENCASED, 8-6'', 2-3''	624.20	
			8				8	LF	DUCT, CONCRETE ENCASED, 8-6'', 6-3''	624.20	
			40				40	LF	DUCT, DIRECT BURIAL, 4-4''	624.25	
			40				40	LF	DUCT, DIRECT BURIAL, 4-6''	624.25	
			520				520	LF	DUCT, DIRECT BURIAL, 1-2''	624.25	
			1				1	EA	CONCRETE PAD FOR SWITCH	624.36	
			40				40	LF	DRAIN PIPE FOR VAULTS	624.42	
			8				8	EA	CONDUIT STANDOFF BRACKET	624.60	
						60	60	LF	SLEEVE FOR UTILITIES (6'' PVC)	625.10	
			40'				40	LF	DUCT, DIRECT BURIAL 1-3'', 1-4''	624.25**	
						50	50	LF	SLEEVE FOR UTILITIES (10''PVC)(MOD.)	625.10	
			1750				1750	LF	4'' PVC SEWER PIPE	628.35	
			308				308	LF	6'' PVC SEWER PIPE	628.35	
			155				155	LF	8'' PVC SEWER PIPE	628.35	
			34				34	LF	12'' PVC SEWER PIPE	628.35	
			2210				2210	LF	SEAMLESS COPPER WATER TUBE (3/4'')	629.23	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS
TOTALS									

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JAN. 21,1991
** ITEM OUT OF ORDER

MONT03

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7)

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

LAND-SCAPING	R.O.W.	TRAINING	NON GOVT. PARTICIP.	EROSION CONTROL	(RET. WALL) BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			5				5	LF	4'' CL52 DI CEM. LINED WATER MAIN	629.24	
			221				221	LF	6'' CL52 DI CEM. LINED WATER MAIN	629.24	
			242				242	LF	8'' CL52 DI CEM. LINED WATER MAIN	629.24	
			92				92	LF	10'' CL52 DI CEM. LINED WATER MAIN	629.24	
			28				28	LF	12'' CL52 DI CEM. LINED WATER MAIN	629.24	
			47				47	LF	14'' CL52 DI CEM. LINED WATER MAIN	629.24	
			5600				5600	LF	16'' CL52 DI CEM. LINED WATER MAIN	629.24	
			427				427	LF	24'' CL52 DI CEM. LINED WATER MAIN	629.24	
			69				69	EA	EXTENSION SERVICE BOX AND CURB STOP	629.25	
			10				10	EA	GATE VALVE W/VALVE BOX 6''	629.27	
			7				7	EA	GATE VALVE W/VALVE BOX 8''	629.27	
			1				1	EA	GATE VALVE W/VALVE BOX 12''	629.27	
									(MODIFIED TO BUTTERFLY VALVE)		
			7				7	EA	GATE VALVE W/VALVE BOX 16''	629.27	
									(MODIFIED TO BUTTERFLY VALVE)		
			1				1	EA	GATE VALVE W/VALVE BOX 24''	629.27	
									(MODIFIED TO BUTTERFLY VALVE)		
			9				9	EA	HYDRANT	629.28	
			4				4	EA	HYDRANT, REMOVE	629.30	
			1				1	EA	TAP, SLEEVE & VLV. W/VLV. BOX(10''X 10'')	629.35	
			1				1	EA	TAP, SLEEVE & VLV. W/VLV. BOX(14''X 14'')	629.35	
			1				1	EA	TAP, SLEEVE & VLV. W/VLV. BOX(20''X 12'')	629.35	
			69				69	EA	CORPORATION STOP	629.39	
			1				1	LS	TRANSFER TO NEW SYSTEM-WATER SYSTEM	629.42	
			3				3	EA	AIR RELEASE - WATER	629.43	
			1				1	LS	RIVER CROSSING (WATER MAIN)	629.65	
						1100	1100	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
						5000	5000	HR	FLAGGERS	630.15	EST.
						1	1	LS	FIELD OFFICE-ENGINEERS	631.10	
						1	1	LS	FIELD OFFICE-SOILS & MATERIALS	631.11	
						1	1	LS	TESTING EQUIPMENT - CONCRETE	631.16	
						1	1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	
		2080					2080	HR	EMPLOYEE TRAINEESHIP	634.10	
						1	1	LS	MOBILIZATION	635.10	EST.
						8400	8400	LF	4'' WHITE LINE	646.20	
						33300	33300	LF	4'' YELLOW LINE	646.21	
						2800	2800	LF	DURABLE 4'' WHITE LINE	646.40	
						1450	1450	LF	DURABLE 4'' YELLOW LINE	646.41	
						350	350	LF	DURABLE 8'' WHITE LINE	646.42	
						80	80	LF	DURABLE 8'' YELLOW LINE	646.43	
						250	250	LF	DURABLE 24'' STOP BAR	646.46	
						55	55	EA	DURABLE LETTER OR SYMBOL	646.50	
						170	170	LF	DUR. CROSSWALK MKG. W/DIAG. LINES (8')	646.51	
						265	265	LF	DUR. CROSSWALK MKG. W/DIAG. LINES (6')	646.51	
						10210	10210	LF	TEMP. 4'' YELLOW LINE	646.61	
						240	240	LF	TEMP. 8'' WHITE LINE	646.62	
						80	80	LF	TEMP. 24'' STOP BAR	646.66	
						55	55	EA	TEMP. LETTER OR SYMBOL	646.70	
						40	40	LF	TEMP. CROSSWALK MKG. W/ DIA. LINES (6')	646.71	
						170	170	LF	TEMP. CROSSWALK MKG. W/ DIA. LINES (8')	646.71	
						100	100	SY	GEOTEXT. FAB. FOR FILT.(INCL.35 SY EST.)	649.10	
				500			500	SY	GEOTEXTILE FABRIC FOR SILT FENCE	649.20	
				200			200	SY	GEOTEXTILE FABRIC FOR FILTER CURTAINS	649.30	
				315			315	LB	SEED	651.15	1
				175			175	LB	SEED-WINTER RYE	651.17	1
				1960			1960	LB	FERTILIZER	651.18	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

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JAN. 21, 1991

MONT04

PROJECT NAME MONTPELIER

PROJECT NUMBER MEGC M6400(7)

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

LAND-SCAPING	R.O.W.	TRAINING	NON GOVT. PARTICIP.	EROSION CONTROL	(RET. WALL) BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				8			8	TON	AGRICULTURAL LIMESTONE	651.20	
				12			12	TON	HAY MULCH	651.25	
				100			100	EA	HAY BALES FOR EROSION CONTROL	651.26	
						110	110	SY	SODDING	651.30	2
						1020	1020	CY	TOPSOIL(INCL. 28 CY FROM BRIDGE QTYS.)	651.35	9
				220			220	SY	EROSION MATTING	654.10	2
2							2	EA	E. GREEN TREES (4'- 5' CO. BLUE SPR.) (PICEA PUNGENS GLAUCA)	656.20	
40							40	EA	EVERGREEN TREES (3'-4' HIGH CEDAR) (THUJA OCCIDENTALIS)	656.20	
4							4	EA	DECIDUOUS TREES (1 1/2'' SUG. MAPLE) (AICER SACCHARUM)	656.30	
3							3	EA	DECID. TREES (1 1/2'' FL. CR. APPL.) (MALUS FLORIBUNDA)	656.30	
1							1	EA	DECID. TREES (1 1/2''-2'' FL. DOGWOOD) (CORNUS ALTERNIFOLIA)	656.30	
21							21	EA	TRANSPLANTING TREES	656.45	
3							3	EA	TRANSPLANTING SHRUBS	656.50	
						300	300	SF	TRAFFIC SIGNS, TYPE A	675.20	
						145	145	SF	TRAFFIC SIGNS, TYPE B	675.21	
						1550	1550	LB	FLANGED CHANNEL SIGN POST	675.30	
						295	295	LB	TUBULAR ALUMINUM SIGN POST	675.32	
						53	53	EA	REMOVING SIGNS	675.50	
						6	6	EA	REMOVING SIGNS (MOD.)	675.50	
						2	2	EA	ERECTING SALVAGED SIGNS	675.60	
						1	1	EA	TRAFFIC CONTROL SIGNALS SYSTEM - INTERSECTION	678.15	
						60	60	LF	1'' GALV. STEEL ELECTRICAL CONDUIT	678.21	
						30	30	LF	1 1/2'' PVC ELECTRICAL CONDUIT	678.21	
						770	770	LF	2'' PVC ELECTRICAL CONDUIT	678.21	
						710	710	LF	VEHICLE LOOP DETECTOR	678.22	
						90	90	LF	VEHICLE LOOP DETECTOR (MOD.)	678.22	
						1	1	EA	PULLBOX	678.25	
						2	2	EA	PULLBOX (MOD.)	678.25	
						1	1	EA	JUNCTION BOX	678.26	
						50	50	LF	ELECTRICAL CONDUIT SLEEVE (10'' PVC)	678.30	
			4				4	EA	REMOVE AND RESET LIGHT POLE (MOD.)	679.25	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS
TOTALS									

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JAN. 21, 1991

MONT05

PROJECT NAME MONTPELIER

PROJECT NUMBER MEGC M6400(7)

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP FI TH	PIPE ELBOW NO-DEG	ES EA	CB	PRCDI	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	REMARKS
RIVER	ST TRAV																																						
79+27	79+48.5	LT/RT																								1•													EXIST. MANHOLE W/24'' INLET & OUTLET; CHANGE ELEVATION
79+48.5		RT																								1•													EXIST. MANHOLE W/12'' AC & 18''VCP INLET 24''RCP OUT.CHANGE ELEV.
79+78		RT																								1													EXIST. DROP INLET W/6''CGMP INLET & 18''RCP OUT.; CHANGE ELEV.
80+72		RT																					0.5						4										REMOVE EX. 2'X2' DI,EX. 18''ACCGMP TO BE PLUGGED & REMAIN IN PLACE
80+90		CL		4X4DI						18	56	.064	.060									7.5	3.7	316	1-D			75	13							4	II			STONE TYPE II @ OUTLET W/ FILTER FABRIC UNDER STONE FILL
80+90	82+00	RT-LT		4X4DI						18	108	.064	.060									6.0	3.0	242	1-D			124												
80+72	81+75	RT																					0.5						2										REMOVE EX. 2'X2' DI,EX. 12''ACCGMP TO BE PLUGGED & REMAIN IN PLACE
82+68.5		RT																								1													EXIST.DROP INLET W/PIPES-RETAIN; CHANGE ELEV. OF DI
85+07		CL		CCB			66	51	46			.109	.105							1											707				61	IV			REMOVE EXISTING 36'' CGMP;NEW CCB W/TYPE E GRATE W/ FILTER FABRIC UNDER STONE FILL, TYPE IV @ OUTLET
85+07	ML16+77	RT~LT		CCB						48	136	.109	.105							1								275	6											REMOVE EXISTING MANHOLE & 36''; CGMP. CCB W/CAST IRON COVER
BERLIN	ST																																						
12+19		RT																							CI•	1•													ADJUST ELEV. OF DI, NEW CAST IRON COVER W/FRAME•
12+39		CL		4X4DI						18	46	.064	.060									7.0	3.4	273	1-E			19												
12+39	13+45	RT		4X4DI						18	104	.064	.060									7.0	3.4	273	1-E			34												
13+25		RT																							CI•	1•													ADJUST ELEV. OF DI, NEW CI COVER & FRAME•
13+45	13+65	RT~LT		4X4DI						18	36	.064	.060									7.5	3.7	316	1-E			12												
13+45	13+70	RT		PRCDI						12	74		.060		.064			2-12			1••							37	6											PRC PIPE DI W/CONC. COVER .LOCATION TO BE DETERMINED BY THE ENGINEER
13+65	14+50	LT		4X4DI						18	86	.064	.060									7.0	3.4	273	1-E			31												
13+70		RT																							CI•	1•													ADJUST ELEV. OF DI, NEW CAST IRON COVER W/FRAME•
																																						RETAIN EXISTING 8'' PIPE
14+15		LT																							CI•	1•													ADJUST ELEV. OF DI, NEW CI COVER W/FRAME •
14+28	14+50	RT		4X4DI						12	20		.060		.064							4.0	2.6	193				11	1											CON EX 6'' CGMP TO NEW RCDI @ INL; REM EX DI,PLUG 6'' OUT
14+28	14+31	RT																							CI•	1•													ADJUST ELEV. OF DI; NEW CI COVER W/FRAME•
14+50		CL		4X4DI						18	30	.064	.060									5.5	2.7	219	1-E			11												
14+50	15+72	LT		4X4DI						18	122	.064	.060									7.5	3.7	316	1-E			46												
14+91.5		LT																							CI•	1•													ADJUST ELEV. OF DI; NEW CI COV W/FRAME,RET EX 6'' VCP•
15+72		CL		4X4DI						18	30	.064	.060									7.0	3.4	273	1-E			14												
15+72		RT								6''	4'	PVC•																	1										6''X 4' PVC TO CONNECT EXISTING SEWER LINES TOGETHER
																																						NEW 6''X 4' PVC PIPE(USE TRAN COUPLING AS NECESSARY)•
16+77		LT		CCB						48	50	.109	.105							1								117												NEW CCB W/1-E GRATE, REMOVE EX 36'' ACCGMP & DI
16+77	17+74	LT		4X6DI						48	96	.109	.105									10.0	5.9	536	1-E			138												
16+77	17+16	LT~RT																										81	4											REMOVE EXISTING 36'' CMP & STORM MANHOLE
17+16	19+09	RT																										200	4											REMOVE EXISTING 36''CMP & 2X2 DI @ 19+09 RT
16+77		CL		4X4DI						18	28	.064	.060									6.5	3.2	250	1-E			14												
TOTALS										6•	4•						PVC•																							
										12	94		.060		.064							43.1	3480		6-C	1•		1239	41			707				4	II			• NON GOVERNMENT-PART.
										18	646	.064	.060												2-D	2									61	IV			•• PRC PIPE DROP INLET
TOTALS							66	51	46	48	282	.109	.105					2-12		3	1••				9-E	8•													
												.109	.105																										

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT
VERTICLE GRANITE CURB (LT OF CL)				
12+41	13+23	210	ISLAND	
13+29	15+98	323		
16+15	16+88	73		
17+12	18+81	169		
18+87	19+19	34		
19+41	19+85	44		
20+25	20+59	34		
20+81	21+09	28		
21+31	21+73	42		
21+98	22+89	91		
23+21	23+50	29		
23+80	24+47	67		
24+73	R25+37	64		
R 25+52	R 25+63	28		
R 25+80	R 25+94	46		
R 26+02	R 27+69	167		
R 27+91	R 28+56	65		
R 28+78	R 29+43	65		
R 29+75	R 31+83	208		
R 32+07	R 32+58	51		
R 33+11	R 34+34	123		
R 34+47	R 34+57	23		
R 34+75	R 34+85	25		
R 34+92	R 35+49	57		
R 35+71	R 36+27	56		
R 36+53	R 37+12	59		
R 37+34	R 37+83	49		
R 38+09	R 38+60	51		
R 38+92	R 39+53	61		
R 39+79	R 40+26	52		
R 40+48	R 40+90	42		
R 41+03	R 41+15	32		
TOTALS SHEET 11	TOTALS	2470		

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
12+39	12+50	C	RT	6	10	4				
12+50	16+95	U	RT	6	445	293			1	
13+65	14+15	U	LT	6	50	12			1	
16+77	17+00	C	RT	6	24	10				
16+77	17+27	U	LT	6	50	16			1	
17+00	18+90	U	RT	6	190	133			1	
18+94	19+00	C	LT	6	6	1				
19+00	19+44	U	LT	6	44	14			1	
20+50	20+60	C	RT	6	10	3				
20+60	23+42	U	RT	6	282	245			1	
23+42	26+10	U	RT	6	268	200			1	
22+00	22+50	U	LT	6	50	15			1	
R 24+80	R 25+30	U	LT	6	50	16			1	
R 26+06	R 26+15	C	RT	6	10	3				
R 26+15	R 31+48	U	RT	6	535	538			1	
R 27+95	R 28+45	U	LT	6	50	22			1	
R=REVISED		C		6	60				1	
TOTALS		U		6	2014	1525				

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PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DRI.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRCDI	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S IN	R IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO-DEG	EA				CY	LBS	TYPE		CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
17+15		RT																				6.5	3.2	250	1-E			15											ADJUST ELEV. OF RCDI, NEW CAST IRON COVER W/FRAME, EXISTING 4'' CIP
																									CI•	1•												AND 10'' YCP 2X2 DI
17+45.5		RT																										2											REMOVE EXISTING 1.5X1.5 DI
17+74	18+94	LT		CCB						48	120	.109	.105							1								164											CCB W/1-E GRATE
17+74		CL		4X4DI						18	28	.064	.060									6.5	3.2	250	1-E			15											
18+03		RT																							CI•	1•												ADJUST ELEV. OF RCDI, NEW CAST IRON COVER W/FRAME•
18+44	18+54	LT																										7	5										REMOVE EXISTING 12'' CMP & RCDI @ 18+54 LT
18+54	18+76	LT~RT																										11	4										REMOVE EXISTING 15'' CMP & RCDI @ 18+76 RT
18+76	19+09	RT																										14											REMOVE EXISTING 15'' CMP
18+94	20+50	LT		4X6DI						30	156	.079	.075									8.5	5.0	453	1-E			112											
18+94		CL		4X6DI						42	28	.109	.105									9.0	5.3	489	1-E			36											
SL 5+50	ML18+94	LT~RT		4X4DI						18	74	.064	.060									6.0	3.0	270	1-B			20											
SL 5+50	ML18+94	RT~RT		4X6DI						42	44				.109							6.0	3.9	324	2-B			33											CONNECT EXISTING 30'' CMP TO NEW 4'X6' DI @ 5+50 RT
19+09	SL 5+50	RT																										24	3										REMOVE 32' OF EXIST. 30'' CMP
19+09	19+60	RT																										27	4										REMOVE EXISTING 18'' CMP & RCDI
19+60	19+62	RT																										10											12'' FIBER PIPE. DISPOSTION TO BE DETERMINED BY THE ENGINEER
19+60	21+09	RT																										29											REMOVE EXISTING 18'' CMP
20+50	22+00	LT		4X6DI						30	148	.079	.075									8.5	5.3	453	1-E			109											
20+50		CL		4X4DI						18	28	.064	.060									7.0	3.3	265	1-E			16											
21+09	21+31	RT~LT																					0.5					11	4										REMOVE 2 DI'S & 18'' CMP. 8'' PIPE TO BE PLUGGED AND TO REMAIN IN PLACE
22+00	23+42	LT		4X6DI						30	140	.079	.075									8.0	4.9	429	1-E			102											
22+00		CL		4X4DI						18	28	.064	.060									7.0	3.3	265	1-E			15											
23+42	R 24+80	LT		4X6DI						30	136	.079	.075									8.0	5.2	444	1-E			94											
23+42		CL		4X4DI						18	28	.064	.060									6.5	3.1	242	1-E			15											
R 24+80	R 26+06	LT		4X4DI						24	126	.064	.060									8.5	4.0	304	1-E			62											
R 24+80		CL		4X4DI						18	28	.064	.060									7.0	3.3	265	1-E			15											
R 25+74	SL11+50	LT~LT																								1•												ADJUST ELEV. OF MANHOLE• RETAIN EXIST. 8'' ABS
R 25+75	R 26+01	LT																										1	2										REMOVE DI-SEE WATER AND SEWER PLANS FOR PIPE RELOCATION•
R=	REVISED																																						
TOTALS										18	214	.064	.060																										
										24	126	.064	.060												2-CI•														
										30	580	.079	.075							1		53.3	4453	3-B	3•		942	24										• NON-GOV'T. PARTICIPATION
										42	28	.109	.105											11-E														
										42	44				.109																									
										48	120	.109	.105																										
TOTALS																																						

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT
VERTICAL GRANITE CURB (LEFT OF CL)				
R 41+39	R 41+70	50		
R 41+82	R 45+49	367		
R 45+71	R 46+41	75		
R 46+66	47+31	65		
47+45	47+53	26		
47+78	47+89	25		
48+00	48+57	57		
48+79	49+21	42		
49+41	50+42	101		
50+64	51+03	39		
51+34	52+06	72		
52+31	53+05	74		
53+27	54+08	81		
54+20	54+31	24		
54+59	56+53	194		
56+70	57+00	36		
57+13	58+73	160		
58+90	61+92	315		
62+06	62+43	45		
62+55	64+17	168		
R 64+34	R 64+55	38		
R 64+85	R 66+29	160		
R 66+48	R 67+57	114		
(RIGHT OF CL)				
11+51	11+81		30	
11+97	12+21		24	
12+27	12+89		62	
13+11	13+47		36	
13+69	14+12		43	
14+34	15+43		109	
		2328	304	
SHEET TOTALS	12	2632		

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
R 30+65	R 31+15	U	LT	6	50	19			1	
R 31+50	R 31+52	C	RT	6	4	2				
R 31+52	R 37+50	U	RT	6	598	703			1	
R 33+46	R 34+00	U	LT	6	54	24			1	
R 36+20	R 36+70	U	LT	6	50	24			1	
R 37+50	R 37+60	C	RT	6	10	2				
R 37+60	R 40+90	U	RT	6	330	355			1	
R 38+90	R 39+50	U	LT	6	60	20			1	
R 41+84	R 41+94	C	LT	6	10	1				
R 41+84	R 41+95	C	RT	6	10	4				
R 41+94	R 42+44	U	LT	6	50	12			1	
R 41+95	46+95	U	RT	6	500	587			1	
R 43+50	R 43+66	C	RT	6	20	5				
45+00	45+50	U	LT	6	50	13			1	
46+83	47+00	C	RT	6	16	5				
47+00	51+05	U	RT	6	405	431	6		1	
R= REVISED TOTALS		C		6	70					
		U		6	2147	2207	6		10	

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PROJECT NUMBER MEGC M6400(7) 76B033DR2.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRCDT	DEPTH	CONC	REIN	DI	CHAN	CRM	TR EXCAV		COMM	UNC CHAN	STRUC	GRAN BKF	GRAN	EROS	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP	PCCSP PI	NO-DEG	EA			DI	CL B	STEEL	GRATE	ELEV		EARTH	ROCK	EXC	CHAN EXC	EXCAV	STRUC	BORR	MATT		TYPE	LT	RT	
							IN	IN	FT	IN	FT	TH	TH	CL	TH	SL	TH						CY	LBS	TYPE		CY	CY	CY	CY	CY	CY	CY	CY	SY	CY				
R 25+82	R 25+97	RT																										4	1										REMOVE EXISTING 18'' CMP & 4.5' GRANITE HEADWALL
R 26+06	R 27+95	RT		4X4DI						24	188	.064	.060									8.0	3.8	296	1-E			82											
R 26+06		CL		4X4DI						24	30	.064	.060									8.0	3.8	296	1-E			19											
R 26+50	R 26+68	RT																										5											REMOVE EXISTING 18'' CGMP DRIVE PIPE
R 27+52		LT																							CI•	1•													ADJUST ELEV. OF DI, NEW CI COVER W/FRAME•
R 27+60	R 27+84	RT																										6											REMOVE EXISTING 18'' RCP DRIVE PIPE
R 27+95	R 29+44	RT		4X4DI						24	148	.064	.060									8.0	3.8	296	1-E			70											
R 27+95		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			14											
R 28+10		RT																					0.5																18'' RCP TO BE PLUGGED & TO REMAIN IN PLACE
R 29+06.5		RT																										3											REMOVE EXISTING 18'' RCP DRIVE PIPE
R 29+44		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			13											
SL15+50	ML29+44	RT		4X4DI						12	60		.060		.064							5.0	2.6	231	1-E			39											CONNECT TO EX. 12'' VCP ON WILSON ST. TO NEW RCDI @ 15+50 RT
R 29+44	R 30+65	RT		4X4DI						24	120	.064	.060									8.0	3.8	296	1-E			55											
R 29+88		RT																										10											REMOVE EXISTING 12'' VCP (WILSON ST.)
R 29+89	R 30+36	RT																										13											REMOVE EXISTING 18'' ACCGMP
R 30+27		LT																							CI•	1•													ADJUST ELEV. OF DI, NEW CI COVER W/FRAME•
R 30+36	R 30+92	RT																											1										REMOVE EXISTING 3' X 56' CONCRETE GUTTER
R 30+65	R 31+50	RT		4X4DI						24	84	.064	.060									8.0	3.8	296	1-E			41											
R 30+65		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			16											
R 30+92	R 31+17	RT																										7	2										REMOVE EX. 15'' RCP & 2-5'X1' GRANITE HEADWALLS
R 31+17	R 31+64	RT																											1										REMOVE EX. 3' X 47' CONCRETE GUTTER
R 31+50	R 32+82	RT		4X4DI						24	132	.064	.060									8.0	3.8	296	1-E			57											
R 31+50		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			12											
R 31+64	R 31+85	RT																										5	1										REMOVE EX. 15'' RCP DRIVE PIPE & 5'X 1' GRANITE HEADWALL
R=	REVISED																																						
TOTALS										12	60		.060		.064							41.1	3191	11-E	2•			471	6										
										18	120	.064	.060												2-CI•															
										24	702	.064	.060																											
TOTALS																																							

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
VERTICAL GRANITE CURB (RIGHT OF CL)					
15+65	17+46		181		
17+68	18+56		88		
18+78	19+25		62		
19+52	19+91		59		
20+05	20+94		92		
21+07	22+12		111		
22+25	23+06		85		
23+22	24+01		83		
24+19	R 25+00		85		
R 25+12	R 26+52		152		
R 26+70	R 27+63		98		
R 27+79	R 28+73		101		
R 28+89	R 29+94		126		
R 30+23	R 31+02		95		
R 31+12	R 31+69		62		
R 31+84	R 33+55		172		
R 33+71	R 33+84		20		
R 34+11	R 35+52		146		
R 35+63	R 36+64		106		
R 36+79	R 37+66		92		
R 37+82	R 38+53		76		
R 38+66	R 39+46		85		
R 39+56	R 39+71		20		
R 39+81	R 40+46		73		
R 40+62	R 41+67		111		
R 41+76	R 43+22		151		
R 43+41	R 44+80		150		
R 44+92	R 45+65		79		
R 45+76	R 46+63		94		
R 46+75	47+54		82		
47+66	48+19		58		
SHEET 13			2995		
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
48+05	48+50	U	LT	6	45	16			1	
51+00	51+10	C	RT	6	10	3	1			
51+00	51+06	C	RT	6	8	1				
51+00	51+50	U	LT	6	50	16			1	
51+10	55+20	U	RT	6	410	337			1	
52+54	53+14	C	RT	6	62	6				
55+30	59+74	U	RT	6	444	437	204		1	
56+00	56+40	U	LT	6	40	17			1	
59+30	59+79	U	LT	6	50	21			1	
59+74	59+79	C	RT	6	6		1			
59+79	62+80	U	RT	6	300	309	50		1	
61+35	61+85	U	LT	6	50	18			1	
62+80	62+87	C	RT	6	8	4				
62+85	67+46	U	RT	6	461	356			1	
63+50	64+00	U	LT	6	50	27			1	
64+00	64+12	C	LT	6	12	4				
65+75	66+26	U	LT	6	50	35			1	
TOTALS		C		6	106	1607				
		U		6	1950		256		11	

• NON-GOV'T. PARTICIPATION

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PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DR3.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP FL TH	PIPE ELBOW NO-DEG	E S EA	CB	PRCDT	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	REMARKS
R 31+85	R 32+75	RT																										2											REMOVE EXISTING 3'X 90' CONCRETE GUTTER
R 32+76	R 32+97	RT																										5	2										REMOVE EXISTING 15'' CGMP DRIVE CULV. & 2 STONE HEADWALLS
R 32+82	R 32+90	RT~LT		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			12	3										
R 32+82		LT																							CI	•1•													RETAIN EX. DI & 6'' PLASTIC PIPE & 6'' CONC. BOX; ADJUST ELEV.
																																						OF DI• NEW CI COVER W/ FRAME•
R 32+82	R 33+46	RT		4X4DI						18	64	.064	.060									7.5	3.6	273	1-E			25											
R 33+23	R 34+09	RT																										5	1										REMOVE EXISTING 12'' DRIVE CULVERT RCP & 2 CRM HEADWALLS
R 33+46	R 35+00	RT		4X4DI						18	152	.064	.060									8.0	3.8	296	1-E			54											
R 33+46		CL		4X4DI						18	30	.064	.060									7.5	3.6	273	1-E			12											
R 34+10	R 35+45	RT																											3										REMOVE EXISTING 3'X 135' CONCRETE GUTTER
R 34+78		RT																																					6'' ORANGEBURG UNDERDRAIN DISPOSTION TO BE DETERMINED BY THE ENG.
R 34+83		LT																					0.5						3										REMOVE EXISTING DI, 2-4'' CONCRETE BOXES & 12'' CMP TO BE PLUGGED
																																						AND REMAIN IN PLACE
R 35+00	R 36+20	RT		4X4DI						18	120	.064	.060									8.0	3.8	296	1-E			43											
R 35+00		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			14											
R 35+47	R 35+72	RT																										2										REMOVE EXISTING 15'' RCP DRIVE PIPE & 2-5'X 1' HEADWALLS. PIPE TO BE
																																						REMOVED UNDER COMMON EXCAVATION
R 36+20	R 37+50	RT		4X4DI						18	128	.064	.060									8.0	3.8	296	1-E			47											
R 36+20		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			13											
R 36+62	R 36+83	RT																																					REMOVE EXISTING 12'' CGMP DRIVE PIPE , REMOVE UNDER COMMON EXCAVATION
R 37+50	R 38+90	LT		4X4DI						18	140	.064	.060									7.5	3.6	273	1-E			51											
R 37+50		CL		4X4DI						18	30	.064	.060									7.5	3.6	273	1-E			14											
R 37+60	R 37+89	RT																																					REMOVE EX. 12'' CGMP DRIVE PIPE , REMOVE UNDER COMMON EXCAV.
R 38+37	R 38+86	RT																																					REMOVE EX. 12'' CGMP DRIVE PIPE , REMOVE UNDER COMMON EXCAV.
R 38+90	R 40+50	LT		4X4DI						18	160	.064	.060									7.5	3.6	273	1-E			53											
R 38+90		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			12											
R 40+50	R 40+67	LT~RT		4X4DI						18	34	.064	.060									6.5	3.1	242	1-E			15											
R 40+95		LT		4X6DI						24	4				.064							7.5	4.8	393				22	3										CONNECT 24'' CSP TO EXISTING 24'' CSP, REMOVE EXISTING RCDI
																																							@ 40-95 LT. (USE 1 PRECAST COVER)
SL25+24		LT																								1•													SEWER INLET, OUTLET 8'' VCP
																																							ADJUST ELEVATION OF MANHOLE•
SL25+70		LT								12	4				.064													1											CONNECT TO EXISTING 12'' CSP TO 4X6 RCDI @ ML 40+95 LT
ML40+95	SL25+59	LT																								1													EXIST DI AND 12'' CSP - RETAIN
R 40+95		CL																										35	5										REMOVE EXISTING RCDI, 24'' CMP & STONE HEADWALL
S25+33.5	S25+59	RT~LT																										11	2										REMOVE EXIST. 12'' CMP AND DROP INLET
SL25+57	SL25+59	RT~LT								12	24		.060		.064							3.5	1.6	143	1-E			8											
R=	REVISED																																						
																										2•													
TOTALS										12	28				.064								53.9	4161	14-E	1		454	24										
										18	978	.064	.060												1-CI•														• NON-GOV'T. PARTICIPATION
										24	4				.064																							
TOTALS																																							

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
VERTICLE GRANITE CURB (RIGHT OF CL)					
48+48	49+52		108		
49+70	52+25		258		
52+44	53+89		150		
54+12	54+76		70		
54+98	57+93		304		
58+10	62+11		397		
62+31	63+31		104		
63+47	R63+66		24		
R63+86	R64+87		104		
R65+12	R66+51		138		
R66+80	R67+60		86		
SHEET 14					
TOTAL			1743		
SHEET 11					
TOTAL			2470		
SHEET 12					
TOTAL			2632		
SHEET 13					
TOTAL			2995		
GRAND TOTALS			9840		

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
67+46	67+54	C	RT	6	8	2				
67+50	68+50	U	RT	6	100	63			1	
68+50		C	CL	6	76	11			1	
SHEET 14 TOTALS		C		6	84	76				
		U		6	100				2	
SHEET 13 TOTALS		C		6	106	1607				
		U		6	1950		256		11	
SHEET 12 TOTALS		C		6	70	2207				
		U		6	2147		6		10	
SHEET 11 TOTALS		C		6	60	1525				
		U		6	2014				11	
SUBTOTALS		C		6	320	5415	262		34	
		U		6	6211					
ESTIMATED		C		6	100	3817	50		20	
		U		6	4989					
GRAND TOTALS		C		6	420					
		U		6	11200	9232	312		54	

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PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DR4.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	E S	CB	PRCDI	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP	PCCSP PI	NO-DEG	EA			DI						EARTH	ROCK									LT	RT	
							IN	IN	FT	IN	FT	TH	TH	CL	TH	SL	TH						CY	LBS	TYPE		CY	CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE			
R 40+95	R 41+45	LT~RT		CCB						36	106		.075				.079			1							153								40	I			NEW CONC. C.B. W/REINF. CONC. WING WALLS; STONE FILL, TYPE I @ INLET
R 40+95	R 41+84	LT		4X4DI						24	94	.064	.060									7.5	3.6	273	1-E			76												
R 40+95	R 43+88	RT																										124	6											REMOVE EXISTING 2X2 DI & 15'' X 290' CMP.(POSITION AND LENGTH OF PIPE
																																							ARE DEDUCED FROM PLANS & MAY REQUIRE ADJUSTMENT)
R 41+84	R 43+50	LT		4X4DI						24	166	.064	.060									7.5	3.6	273	1-E			60												
R 41+84		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			13												
R 43+50	R 45+00	LT		4X4DI						24	148	.064	.060									7.5	3.6	273	1-E			58												
R 43+50		CL		4X4DI						18	30	.064	.060									5.5	2.7	311	1-E			26												
43+50	43+90	RT		4X4DI						18	28	.064	.060									6.5	3.1	242	1-E			13												
R 43+90	43+97	RT		HDWL.	X					12	12				.064								1.0	8				10								3	I			CONSTRUCT INLET DITCH W/STONE FILL, TYPE I
R 43+88	R 45+82	RT																										28	5											REMOVE 2X2 DI & EXISTING 15'' X 188' CMP
R 44+10		LT																										4	3											REMOVE EXISTING 2X2 DI & 12'' X 32' CMP
R 45+00	R 46+70	LT		4X4DI						24	170	.064	.060									7.5	3.6	273	1-E			82												
R 45+00		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			12												
R 45+82	47+79	RT																										45	4											REMOVE EXISTING DI & 12'' CMP
R 46+00		CL								6	60	SLEEVE FOR UTILITIES																23												NEW 6'' PVC SLEEVE FOR UTILITIES
R 46+70	46+83	LT~RT		4X4DI						18	34	.064	.060									6.5	3.1	242	1-E			13												
R 46+70	48+05	LT		4X4DI						18	136	.064	.060									7.5	3.6	273	1-E			51												
46+86		LT																										10	2											REMOVE EXISTING DI & 12'' CMP
47+80	50+95	RT																										69	9											REMOVE EXISTING 2X2 DI,15'' X 315' CMP & 12'' ABS @ INLET
48+05		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			13												
48+05	48+45	RT		4X4DI						18	42	.064	.060									4.0	2.0	173	1-B			20												
48+45	49+45	RT		4X4DI						18	98	.064	.060									8.0	3.8	296	1-E			39												
49+45	51+00	RT		4X4DI						18	156	.064	.060									8.0	3.8	296	1-E			53	4											
49+45		CL		4X4DI						18	30	.064	.060									8.0	3.8	296	1-E			14												
49+48.5		LT																										8	3											REMOVE EXISTING 2X2 DI & 12'' CMP
R=	REVISED																																							
TOTALS										6	60	SLEEVE FOR UTILITIES																													
										12	12				.064					1		50.6	3855	14-E			1017	36							43	I			• NON-GOV'T. PARTICIPATION
										18	644	.064	.060											1-B														
										24	578	.064	.060																											
										36	106		.075				.079																							
TOTALS																																							

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB		MKR PST
TOTALS											

ARCHIVED ON CADD

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DR5.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	E S	CB	P R C D I	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S IN	R IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO-DEG	EA				CY	LBS	TYPE		CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
50+58		LT																								1•														RETAIN 2 EXISTING 6'' CLAY PIPES & 8'' PCP, ADJUST ELEV OF MANHOLE•
50+69		LT																																						EXISTING 12'' CIP W/WSO VALVE-9'X 7' CONCRETE BOX - RETAIN
50+78		LT																								1•														EXISTING 12'' CIP W/WSO VALVE-9'X 7' CONCRETE BOX-ADJUST ELEV OF MH•
50+95	51+28.5	RT~LT																											2										REMOVE EXISTING 2X2 DI&12'' CMP OUTLET. DISPOSITION OF 6'' VCP TO BE DETERMINED BY ENGINEER. PIPES TO BE REMOVED UNDER COMMON EXCAVATION
51+00	52+35	LT		4X4DI						18	136	.064	.060									7.0	3.3	265	1-E			41												
51+00		CL		4X4DI						18	30	.064	.060									7.0	3.3	265	1-E			15	2											
52+35	52+54	LT~RT		4X4DI						18	36	.064	.060									7.0	3.3	265	1-E			15												
52+45		RT																										5												REMOVE EXISTING 12'' DRIVE PIPE
52+54	54+20	RT		4X4DI						18	162	.064	.060									6.5	3.1	242	1-E			55												
54+42		RT																																						RETAIN EXISTING 4X4 RCDI, FORCE MAIN, 4'' CIP & 6'' CVP
56+40		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			12												
56+40	57+46	RT		4X4DI						18	104	.064	.060									7.5	3.6	273	1-E			41												
57+46		CL		4X4DI						18	30	.064	.060									7.0	3.3	265	1-E			12												
57+46	59+79	RT		4X4DI						18	232	.064	.060									7.5	3.6	273	1-E			71												
57+88		RT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEV.•
59+21		RT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEV.•
59+79		CL		4X4DI						18	30	.064	.060									7.0	3.3	265	1-E			13	2											REMOVE EXISTING 2X2 DI & 15'' CONCRETE PIPE
59+79	61+85	RT		4X4DI						18	204	.064	.060									7.6	3.6	273	1-E			70												
60+56		RT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEV.•
61+85		CL		4X4DI						18	30	.064	.060									7.0	3.3	265	1-E			13												
61+85	62+31	RT		4X4DI						18	46	.064	.060									7.0	3.3	265	1-E			21												
62+31	63+92	RT																										36	3											REMOVE 2 EXISTING 12'' RCP'S & 2X2 DI
62+31	62+87	RT		4X4DI						18	56	.064	.060									6.5	3.1	242	1-E			28												CONNECT EXIST. 4'' PVC UNDERDRAIN TO NEW DI
62+87		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			12												
62+87	63+60	RT		4X4DI						18	72	.064	.060									8.0	3.8	296	1-E			41												
63+60	64+83	RT		4X4DI						18	122	.064	.060									8.5	4.0	304	1-E			57												CONNECT EXIST. 8'' PVC UNDERDRAIN TO NEW DI
63+31		RT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEVATION•
63+92	65+83	RT																										22	1											REMOVE EXISTING 12'' CMP & 2X2 RCDI
R 64+81		LT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEV.
R 64+12	R 64+83	LT~RT		4X4DI						18	74	.064	.060									6.5	3.1	242	1-E			35												
R 64+83	R 66+24	RT		4X4DI						18	140	.064	.060									7.0	3.3	265	1-E			50												
R 65+83	R 67+52	RT																										29	3											REMOVE EXISTING 15'' CMP & 6'' VCP & 2X2 DI
R 66+24		CL		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			13												
R 66+68		LT																								1•														EXIST. SEWER MANHOLE - ADJUST ELEVATION.•
R 66+87		RT																								1•														
R=	REVISED																																							• NON-GOV'T. PARTICIPATION
TOTALS										18	1594	.064	.060									63.6		4991	19-E	9•		707	13											

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB		MKR PST
TOTALS											

ARCHIVED ON CADD

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DR6.PRF

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRCDI	DEPTH	CONC CL B	REIN STEEL	GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S IN	R IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO-DEG	EA			DI	CY	LBS	TYPE		CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
R 66+24	R 67+52	RT		4X4DI						18	128	.064	.060									7.0	3.3	265	1-E			50												
R 67+50	R 67+52	LT~RT		4X4DI						18	30	.064	.060									6.5	3.1	242	1-E			11												
R67+51.5		LT																											3									REMOVE EXISTING RCDI
R 67+52	R 67+94	RT		4X4DI																		7.0	3.3	265	1-E			39	4									RELAY 40' EXISTING 18'' RCP, CONNECT TO NEW RCDI @ 67+52 RT
SHEET	TOTALS									18	158	.064	.060										9.7	772	3-E			100	7									
SUB	TOTALS									6	4	PVC•																											
SHEET	11						66	51	46			.109	.105						3	1••			43.1	3480		2		1239	41			707				4	II		
										12	94		.060		.064			2-12						9-E	8•									61	IV		
										18	646	.064	.060												6-C	I•												
										48	282	.109	.105												2-D													
SHEET	12									18	214	.064	.060						1				53.3	4453	3-B			942	24									
										24	126	.064	.060												11-E													
										30	580	.079	.075												2-C	I•3•												
										42	28	.109	.105																									
										42	44				.109																							
										48	120	.109	.105																									
SHEET	13									12	60		.060		.064								41.1	3191	11-E			471	6									
										18	120	.064	.060												2-C	I•2•												
										24	702	.064	.060																									
SHEET	14									12	28				.064																							
										18	978	.064	.060										53.9	4161	14-E	1		454	24									
										24	4				.064										1C	I• 2•												
SHEET	15									6	60	SLEEVE FOR UTILITIES																											
										12	12				.064								50.6	3855	1-B			1017	36							43	I		
										18	644	.064	.060												14-E													
										24	578	.064	.060																									
										36	106		.075				.079		1																			
SHEET	16									18	1594	.064	.060										63.6	4991	19-E	9•		707	13									
SHEET	17									18	158	.064	.060										9.7	772	3-E			100	7									
GRAND	TOTALS						66	51	46			.109	.105					2-12	5	1••		315.3	24903	4-B	3		4930	151			707				43	I			CI= CAST IRON COVER
										12	154		.060		.064						••••••				24•									4	II		
										12	40				.064										81-E	•••••••									61	IV		
																									11-C	I•												
										18	4354	.064	.060												2-D													
										24	4				.064								••••••	:														
										24	1406	.064	.060										40 CAST IRON GRATES W/ FRAMES, TYPE E, 160 CY OF CONCRETE															
										30	580	.079	.075										CL. B AND 12,500 LBS. OF REINFORCING STEEL WILL BE TRANSFERED															
										36	106		.075				.079						TO THE QUANTITY SHEET. THIS REPRESENTS APPROXIMATELY ONE-HALF															
										42	44				.109								OF THE ITEMS REQUIRED TO CONSTRUCT THE DROP INLETS. THE REMAINING															
										42	28	.109	.105										ONE-HALF WILL BE PAID AS PRECAST REINFORCED CONCRETE PIPE DROP															
								48	402	.109	.105												INLETS. FORTY-TWO OF THESE HAVE BEEN ESTIMATED FOR THE															
										6	60	SLEEVE FOR UTILITIES											PROJECT. THE ACTUAL DROP INLET TYPE TO BE USED IS UP TO THE															RIGID PLASTIC
										6	4	PVC•											DISCRETION OF THE ENGINEER ON A SITE BY SITE BASIS. SEE SHEET															
																							144 FOR DETAILS ON THE PRECAST REINFORCED CONCRETE PIPE DROP															
																							INLETS.															
TOTALS																																						

• NON-GOV'T. PARTICIPATION

•• PRC PIPE DROP INLET

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
TOTALS										

ARCHIVED ON CADD

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M6400(7) 76B033DR7.PRF

EARTHWORK SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		11+00												
		+50				50	80							
							11+54.93 BEGIN PROJECT MEGC M6400(7)							
		+54.93 = RIVER ST.	534.10											
		80+00												
								246						
		+70	534.18											
		+75	534.21	534.21	0.00									
													CUT	= 1607
	+0.5414 %	12+00	534.34	534.47	+0.13		186						FILL	= 265
													FILL	
		+19	534.45	534.85	+0.40								FACTOR	=
								309					1.15	
		+25	534.48	534.99	+0.51									
													EX. CUT	= 1302
		+50	534.61	535.77	+1.16		148							
		+66	534.70	536.40	+1.70									
		+75	534.75	536.81	+2.06			263						
		+80	535.19	537.05	+1.86									
200' VC														
		13+00	536.94	538.10	+1.16		136				0			
		+13	538.08	538.87	+0.79									
								234				5		
		+25	539.13	539.64	+0.51									
		+50	541.32	541.45	+0.13		117				5			
		+54	541.67	541.76	+0.09									
		+61	542.29	542.33	+0.04									
								169				28		
		+70	543.08	543.09	+0.01									
		+75	543.51	543.51	0.00									
		14+00	545.71				66				25			
		+15	547.02											
		+18	547.28											
	+8.7647 %							90				60		
		+27.5	548.12											
		+31	548.42											
		+50	550.09				31				40			
		+58	550.79											
								48				71		
		+91.5	553.73											
		15+00	554.47				21				37			
								51				36		
		+50	558.85	558.85	0.00		34							
											2			
		+54	559.20	559.20	0.00									
								50						
		+72	560.78	560.74	-0.04							19		
		16+00	563.24	563.01	-0.23		20				18			
		+22	565.16	564.69	-0.47			53				22		
		+50	567.62	566.72	-0.90	50	37				6			
300' VC		+65	568.93	567.74	-1.19									
		CARRIED FORWARD						1513				241		
		COLUMN FOOTINGS						1513				241		

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		16+65	568.93	567.74	-1.19									
		+77	569.98	568.52	-1.46			94				24		
		17+00	572.00	569.97	-2.03	50	64				20			
		+09	572.30	570.50	-1.80									
		+15	572.50	570.85	-1.65									
								121				27		
		+35	573.17	571.98	-1.19									
		+45.5	573.52	572.53	-0.99									
300' VC		+50	573.67	572.77	-0.90		67				9			
		+60	574.01	573.28	-0.73			131				17		
		18+00	575.34	575.11	-0.23		74				9			
		+03	575.44	575.24	-0.20									
		+25	576.18	576.12	-0.06			140				30		
		+44	576.81	576.81	0.00									
		+50	577.02	577.02	0.00		77				23			
		+54	577.15											
		+67	577.58											
								156				37		
		+76	577.88											
		+98	578.62											
		19+00	578.69				91				17			
		+09	578.99											
		+25	579.52	579.52	0.00									
	+3.3435 %	+30	579.69	579.69	0.00			194				16		
		19+34.02= OCTOBER LANE	579.82	579.83	+0.01									
		5+00												
		+50	580.36	580.42	+0.06		119				0			
		+60	580.69	580.80	+0.11									
												27		
		+62	580.76	580.89	+0.13			213						
		+80.5	581.38	581.66	+0.28									
		20+00	582.03	582.55	+0.52		111				29			
		+14	582.50	583.23	+0.73									
								206				54		
		+20	582.70	583.53	+0.83									
		+50	583.70	585.14	+1.44		112				29			
		+59	584.00	585.66	+1.66									
								207				33		
		+70	584.37	586.31	+1.94									
		21+00	585.37	588.20	+2.83	50	112				7			
		+05	585.54	588.54	+3.00									
		+09	585.67	588.80	+3.13									
		CARRIED FORWARD						1368				241		
		COLUMN FOOTINGS						1462				265		

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		21+09	585.67	588.80	+3.13									
		+20	586.04	589.56	+3.52								CUT	= 1825
													FILL	= 284
		+25	586.21	589.91	+3.70			215				21	FILL	
													FACTOR	=
		+31	586.85	590.33	+3.48								1.15	
		+50	588.89	591.72	+2.83	50	121				16			
													EX	
		+92	593.41	595.05	+1.64			242				22	CUT	= 1498
		22+00	594.26	595.70	+1.44		140				8			
		+21	596.52	597.52	+1.00			257				9		
		+50	599.63	600.15	+0.52		138				2			
								250				6		
		23+00	605.00	605.06	+0.06		132				4			
		+14	606.51	606.52	+0.01									
400' VC		+25	607.69	607.69	+0.00			230				9		
		+45	609.84											
		+50	610.37				116				6			
		+65	611.98					231				19		
		24+00	615.74				134				15			
		+15	617.35											
								284				14		
		+32	619.18											
		+50	621.11				173				0			
		+65	622.72					333						
	+10.7393%	25+00	626.48			50	187							
		+13.5	627.93										CUT	= 2912
													FILL	= 65
		+26	629.27			50.01		371					FILL	
		+50	631.85										FACTOR	=
		+50.01					214						1.15	
		+74.50	634.48										EX	
		+74.51	634.48										CUT	= 2837
		+90	636.15											
						49.99		363						
		+97.50	636.95											
		26+00	637.22				178				3			
		+01	637.33											
		+27.48	640.17			49.96		316				4		
		+27.50	640.17											
		+49.96	642.59				164				1			
		+50	642.59											
		+53.96	643.02											
		+54	643.02			49.95		277				4		
		+74.94	645.27											
		+99.91	647.95				135				3			
		CARRIED FORWARD												
		COLUMN FOOTINGS						3369				108		

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PROJECT NAME MONTPELIER 23-FEB-1996
PROJECT NUMBER MEGC M 6400(7) 76B033E1.PRF

EARTHWORK SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	CU. YDS.	ROCK EXCAVATION AREA	CU. YDS.	EMBANKMENT AREA	CU. YDS.	AREA	CU. YDS.
		+99.91	647.95				135				3			
		27+00	647.96	647.96	0.00							5		
						49.92		245			2			
		+49.83	653.31	653.10	-0.21		130							
		+50	653.33	653.11	-0.22									
		+51.82	653.53	653.29	-0.23									
		+52	653.55	653.32	-0.23									
		+68.29	655.29	654.89	-0.40									
		+68.50	655.32	654.92	-0.40	49.89		209				11		
		+81.76	656.74	656.17	-0.57									
		+82	656.77	656.19	-0.58									
		+94.73	658.13	657.36	-0.77									
		+99.72	658.67	657.81	-0.86		96				10			
		28+00	658.70	657.84	-0.86									
						49.96		209				28		
		+49.68	662.32	662.11	-0.22		130				20			
		+50	662.35	662.13	-0.22									
		+66.68	663.56	663.46	-0.10									
		+67	663.59	663.50	-0.09									
		+78.68	664.44	664.40	-0.04	50		211				39		
		+79	664.46	664.42	-0.04									
		+87.68	665.09	665.08	-0.01									
		+88	665.12	665.11										
		+99.68	665.97	665.97			98				22			
		29+00	665.99	665.99										
		+36.66	668.67											
		+37	668.69			49.96		185				27		
		+42.65	669.10											
		+49.64	669.61				102				7			
		+50	669.64											
		+62.63	670.56											
		+63	670.59			49.94		251				7		
		+65	670.73											
		+94.59	672.89											
		+99.58	673.26				169				0			
		30+00	673.29											
		+09.79	674.00											
		+10.22	674.03											
		= WILSON	ST.											
		15+00				49.94		288						
		+26.55	675.22											
		+27	675.26											
		+49.52	676.90				142							
		+50	676.93	676.93	0.00									
		+74.49	678.72	678.69	-0.03	49.94		297						
		+75	678.76	678.73	-0.03									
		+99.46	680.54	680.41	-0.13		179				0			
		31+00	680.58	680.45	-0.13									
		+07.45	681.05	680.96	-0.09	49.94		301				1		
		+08	681.08	680.99	-0.09									
		+49.40	683.67	683.67	0.00		146				1			
		+50	683.71	683.71	0.00									
			CARRIED FORWARD					2196				118		
			COLUMN FOOTINGS					2196				118		

200' VC +10.7393%

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	CU. YDS.	ROCK EXCAVATION AREA	CU. YDS.	EMBANKMENT AREA	CU. YDS.	AREA	CU. YDS.
		+49.40	683.67	683.67	0.00		146				1		CUT =	2460
		+50	683.71	683.71	0.00								FILL =	122
													FILL	
		+59.39	684.29	684.29	0.00								FACTOR =	
		+60	684.33	684.34	+0.01								1.15	
						49.98		264				4		
		+79.38	685.54	685.58	+0.04								EX	
		+80	685.58	685.63	+0.05								CUT =	2320
		+99.38	686.79	686.91	+0.12		139				3			
		32+00	686.83	686.96	+0.13									
		+32.38	689.18	689.20	+0.02	50		231				6		
		+33	689.23	689.24	+0.01									
		+49.38	690.41	690.41	0.00		110				3			
		+50	690.46	690.46	0.00									
		+80.88	692.70					204				3		
		+81.5	692.74											
		+99.38	694.04				110				0			
		33+00	694.09											
		+27.38	696.07					204				4		
		+28	696.12											
		+49.38	697.67				110				4			
		+50	697.72											
		+63.38	698.69					219				6		
		+64	698.73											
		+99.38	701.30				127				2			
		34+00	701.35											
		+08.38	701.95					238				7		
		+09	702.00											
		+49.38	704.93				130				6			
		+50	704.97											
		+65.58	706.10											
		+66.20	706.15											
		BLODGETT	AVE.											
		=20+00						238				7		
		+82.38	707.32											
		+83	707.37											
		+99.38	708.56				127				2			
		35+00	708.60											
		+32.38	710.95					264				3		
		+33	711.00											
		+49.38	712.19				158				1			
		+50	712.23											
		+59.38	712.91					273				2		
		+60	712.96											
		+99.38	715.82				137				1			
		36+00	715.86											
		+39.38	718.72			50		218				2		
		+40	718.76											
		+49.38	719.44				98				1			
		+50	719.49											
		+69.38	720.90											
		+70	720.94											
			CARRIED FORWARD					2089				40		
			COLUMN FOOTINGS					2353				44		

100' VC +6.2500%

100' VC +7.2576%

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	CU. YDS.	ROCK EXCAVATION AREA	CU. YDS.	EMBANKMENT AREA	CU. YDS.	AREA	CU. YDS.
		+69.38	720.90											
		+70	720.94											
						50		175				8		
		+83.38	721.91											
		+84	721.96											
		+99.38	723.07					91				8		
		37+00	723.12											
		+22.38	724.74											
		+23	724.79			50		116				11		
		+25	724.93											
		+49.38	726.70					34				4		
		+50	726.75											
		+60	727.47	727.47	0.00									
		+64.38	727.79	727.79	0.00									
		+65	727.84	727.84	0.00	50		106				4		
		+74.38	728.52	728.50	-0.02									
		+75	728.56	728.54	-0.02									
		+99.38	730.33	730.19	-0.14			81				0		
		38+00	730.38	730.23	-0.15									
		+25	732.19	731.81	-0.38	50.07		181				6		
		+49.45	733.96	733.24	-0.73			114				6		
		+50	734.00	733.27	-0.74									
		+59.46	734.69	733.79	-0.90									
		+60	734.73	733.82	-0.91									
						50.06		237				6		
		+75.48	735.29	734.64	-0.65									
		+76	735.31	737.67	-0.64									
		+99.51	736.16	735.83	-0.33			142				1		
		39+00	736.18	735.85	-0.33									
		+19.03	736.87	736.72	-0.15									
		+19.50	736.88	736.73	-0.15			282				1		
		+25	737.08	736.97	-0.11									
		+49.57	737.97	737.96	-0.01			162				0		
		+50	737.99	737.98	-0.01									
		+60	738.35	738.35	0.00									
		+65.59	738.55											
		+66	738.57											
								362						
		+76.60	738.95											
		+77	738.97											
		+99.63	739.79					228				1		
		40+00	739.80											
		+38.68	741.20					338						
		+39	741.21											
		+49.69	741.60					137				1		
		+50	741.61											
		+75	742.51	742.51	0.00									
		+94.24	743.21	743.24	+0.03	50.06		210				38		
		+94.50	743.22	743.25	+0.03									
		+99.75	743.41	743.47	+0.06			89				40		
		41+00	743.42	743.48	+0.06									
			CARRIED FORWARD					1832				66		
			COLUMN FOOTINGS					2007				74		

200' VC +7.2576%

+3.6205%

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PROJECT NAME MONTPELIER 23-FEB-1996
PROJECT NUMBER MEGC M 6400(7) 76B033E2.PRF

EARTHWORK SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		40+99.75	743.41	743.47	+0.06		89				40			
		41+00	743.42	743.48	+0.06									
		+44.81	745.04	745.49	+0.45	50.06		184				38		
		+45	745.05	745.50	+0.45								CUT	= 222
													FILL	= 107
		+49.81	745.22	745.73	+0.51		109				1		FILL	
		+50	745.23	745.74	+0.51								FACTOR	=1.15
		+56.96	745.48	746.09	+0.61							EX	CUT=	2098
		+57.15=	745.49	746.11	+0.62	50		205				3		
		WHEELOCK ST.												
		25+00												
		+74.81	746.13	747.04	+0.91									
		+75	746.13	747.05	+0.92									
		+99.81	747.03	748.46	+1.43		112				2			
		42+00	747.04	748.47	+1.43									
								206				10		
		+49.81	748.84	751.64	+2.80		111				9			
		+50	748.85	751.65	+2.80									
								224				16		
		+99.81	753.84	755.27	+1.43		131				8			
		43+00	753.86	755.29	+1.43									
		+29.81	756.85	757.68	+0.83			262				9		
		+30	756.87	757.70	+0.83									
		+49.81	758.86	759.38	+0.52		152				2			
		+50	758.88	759.39	+0.51									
		+87.81	762.67	762.80	+0.13			288				2		
		+88	762.69	762.82	+0.13									
		+99.81	763.87	763.93	+0.06		159				0			
		44+00	763.89	763.95	+0.06									
		+09.31	764.82	764.84	+0.02									
		+09.50	764.84	764.86	+0.02			306						
		+25	766.40	766.40	0.00									
		+49.81	768.88				172							
		+50	768.90											
		+89.81	772.89					311						
		+90	772.91											
		+99.81	773.90			50	164							
		45+00	773.91	773.91	0.00									
		+25	776.42	776.42	0.00									
		+26.82	776.60	776.56	-0.04	50.16		336						
		+27	776.62	776.58	-0.04									
		+49.97	778.92	778.78	-0.14		198							
		+50	778.93	778.79	-0.14									
		+60	779.93	779.73	-0.20									
		+60.04	779.93	779.73	-0.20									
		+75	781.43	781.12	-0.31									
		+75.12	781.45	781.13	-0.31	50.28		371						
		+82.50	782.19	781.81	-0.38									
		+82.66	782.20	781.82	-0.38									
		46+00	783.94	783.38	-0.56									
		+00.25	783.96	783.41	-0.55		200							

EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		60+50	821.99				147				0			
						50		269						
		61+00	821.70				144							
						50		273						
		+50	821.42				151				0			
						50		277				2		
		62+00	821.13				148				2			
		+19	821.02											
		+31	820.95			50		293						
		+47	820.86											
		+50	820.85				168							
						50		297						
		63+00	820.56				153							
						50		279						
X	- 0.5727%	+50	820.27	820.27	0.00		148							
		+80	820.10	820.02	-0.08								CUT	=3133
													FILL	= 43
		+89	820.05	819.91	-0.14	50		292				FILL	FAC	=1.15
		+92	820.03	819.87	-0.16							EX	CUT	=3084
		64+00	819.99	819.77	-0.22		167				0			
		+26.94	819.83	819.30	-0.53									
		+27	819.83	819.30	-0.53	49.87		332				1		
		+49.87	819.70	818.80	-0.90		193				1			
X	200' VC	+50	819.70	818.80	-0.90									
		+80.58	818.43	818.00	-0.43									
		+80.85 =	818.42	817.99	-0.43									
		SHERWOOD DRIVE				49.75		325				1		
		40+00												
		64+99.62	817.63	817.40	-0.23		160				0			
		65+00	817.62	817.40	-0.22									
		+24.44	816.60	816.54	-0.06									
		+25	816.58	816.52	-0.06	49.61		356				15		
		+49.23	815.57	815.57	0.00		228				16			
X	- 4.1636%	+50	815.54	815.54	0.00									
		+73.97	814.54											
		+75	814.50											
		+81.88	814.21			49.45		395				16		
		+83	814.16								1			
		+98.68	813.51				203							
		66+00	813.45											
		+06.57	813.18											
		+08	813.12											
		+37.32	811.90			49.64		309				4		
		+39	811.83											
		+48.32	811.44				133				3			
		+50	811.37			50.02								
		+60.33	810.94											
		+62	810.87					255				6		
		+98.34	809.36				142				4			
		CARRIED FORWARD						3952				45		
		COLUMN FOOTINGS												

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		+98.34	809.36				142				4			
		67+00	809.29			50.01		251				7		
		+48.35	807.28				129				4			
		+49.85	807.22											
		+50	807.21											
		+51.50	807.15											
		+53.50	807.06			50.01		235				4		
					REV.	67+58.74	END PROJECT MEGC M6400(7) BEGIN APPROACH							
		+61.35	806.74											
		+63	806.67											
	- 4.1636%	+98.36	805.20				125				0			
		68+00	805.13											
		+26.37	804.03										CUT	= 951
		+28	803.96			50.02		246					FILL	= 11
		+48.38	803.11				141						FILL	FAC =1.15
		+50	803.05					219					EX	CUT = 938
		+98.38	801.03			50	96							
		69+00	800.96											
		+08.74 =												
					END APPROACH CONSTRUCTION									
		+10.35	800.60											
		EQ=-1.61'												
		CARRIED FORWARD						951				11		
		COLUMN FOOTINGS												

SUMMARY AND BALANCES

STATION TO STATION		TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
12+00	17+00	1607		265	1302		1302	
17+00	22+00	1825		284	1498		2800	
22+00	27+00	2912		65	2837		5637	
27+00	32+00	2460		122	2320		7957	
32+00	37+00	2264		48	2209		10166	
37+00	42+00	2221		107	2098		12264	
42+00	47+00	3019		37	2976		15240	
47+00	52+00	2894		129	2746		17986	
52+00	57+00	2761	39	50	2723		20709	
57+00	62+00	2599	131	56	2600		23309	
62+00	67+00	3133		43	3084		26393	
67+00	69+10.35	951		11	938		27331	
	SUBTOTAL	28646	170	1217				
LESS REMOVING BIT. CONCRETE	PAVEMENT	2906	(BITUMINOUS PAVEMENT REMOVAL TO BE PAID AS EXCAVATION OF SURFACES AND PAVEMENT.)					
MAINLINE TOTALS		25740	170	1217				
	DRIVES	1398•		167				
LESS REMOVING BIT. CONCRETE	PAVEMENT	250	(BITUMINOUS PAVEMENT REMOVAL TO BE PAID AS EXCAVATION OF SURFACES AND PAVEMENT.)					
	DRIVE TOTALS	1148		167	956		28287	
	APPROACHES	758			758		29045	
	WALKS	4		48		51	28994	
	TOTAL	27650	170	1432				

• THE CUT AND FILL QUANTITIES FOR DRIVES CONTAIN 220 C.Y. OF EARTH EXCAVATION AND 21 C.Y. OF FILL MATERIAL. THESE QUANTITIES ARE FOR THE DRIVE AT 49+60 RT. AND SHALL BE NON-GOVERNMENT PARTICIPATION.

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY	
1	1	1513		241	
	2	1462		265	
	3	3369		108	
2	1	2196		118	
	2	2353		44	
	3	2007		74	
3	1	2693		78	
	2	3609		129	
	3	4541	170	104	
4	1	3952		45	
	2	951		11	
COLUMN SUBTOTAL		28646	170	1217	
		2906	LESS REMOVING BIT. CON. PAVE.		
M.L. TOTALS		25740	170	1217	
DRIVES		1398•		167	
		250	LESS REMOVING BIT. CON. PAVE.		
DRIVE TOTALS		1148		167	
APPROACHES		758			
WALKS		4		48	
TOTALS		27650	170	1432	

REMARKS

EARTH AND ROCK EXCAVATION	27650
SOLID ROCK EXCAVATION	170
EARTH EXCAVATION	27480
PLANIMETERED FILL	1432
LESS FACTORED SOLID ROCK (170 X 1.3)	221
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	1211
FACTOR (0.15)	182
PLANIMETERED FILL INCLUDING FACTOR	1393
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	27480
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION (60% X 5415)	3249
STRUCTURE EXCAVATION (40% X 1500)	600
TOTAL MATERIAL AVAILABLE FOR FILL	31329
TOTAL FILL INCLUDING FACTOR	1393
TOTAL MATERIAL FOR FILL	31329
BORROW	
EXCESS EXCAVATION	29936

Archived On CADD

PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M 6400(7) 76B033ES.PRF

INDEX OF SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

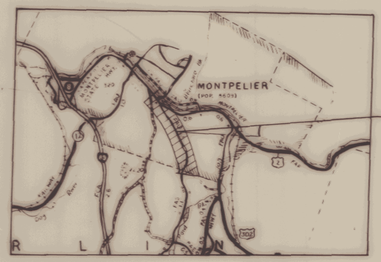
PROPOSED IMPROVEMENT
CITY OF MONTPELIER
COUNTY OF WASHINGTON
BERLIN STREET (F.A.U.)

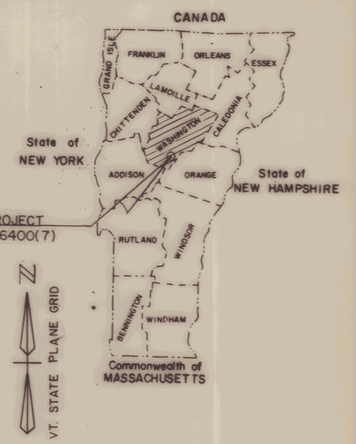
BEGINNING AT THE INTERSECTION OF BERLIN ST. AND U.S. RTE. 2 (RIVER ST.) IN THE CITY OF MONTPELIER, AND EXTENDING IN A SOUTHEASTERLY DIRECTION ALONG THE EXISTING ALIGNMENT OF BERLIN ST. FOR 1.062 MILES, TO A POINT WHICH IS LOCATED APPROXIMATELY 150' NORTHEASTERLY OF THE MONTPELIER CITY–BERLIN TOWN LINE.

LENGTH OF ROADWAY = 5605.42 FEET
LENGTH OF BRIDGE = 0.0 FEET
LENGTH OF PROJECT = 5605.42 FEET
LENGTH OF R.O.W. PROJ.= 5770.85 FEET

WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF GRADING, DRAINAGE, SUBBASE, PAVEMENT, SIDEWALK AND CURBING FOR AN URBAN ROADWAY ON EXISTING LOCATION.

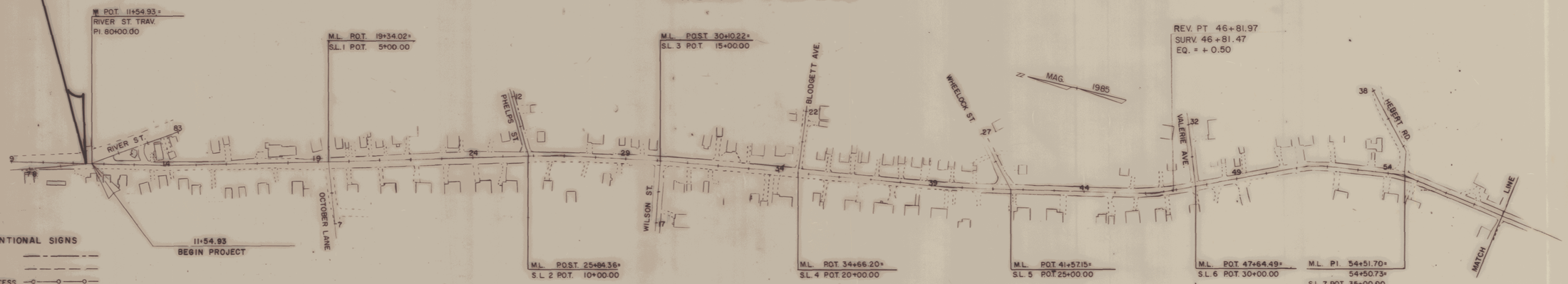
R.O.W. PLANS





THIS SHEET TO BE USED
FOR R.O.W. INFORMATION ONLY

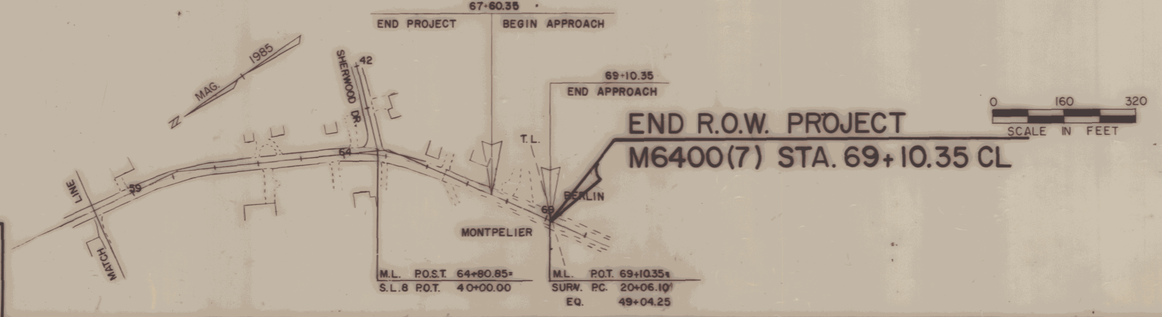
BEGIN R.O.W. PROJECT
M6400(7) STA. 11+40 CL



CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- CONTROL OF ACCESS
- PROPERTY LINE
- R.O.W. TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

DATUM
VERTICAL 1929 NGVD
HORIZONTAL N/A



END R.O.W. PROJECT
M6400(7) STA. 69+10.35 CL

0 160 320
SCALE IN FEET

R.O.W. PLANS

APPROVED: David B Kelly DATE: 9/6/88
Dir. Dept. of Engineering & Construction

APPROVED: Jayson Cummings DATE: 9/2/88
Chief, Property Administration

MONTPELIER
MEGC M6400(7)
R.O.W. SHEET 2 OF 335

D-10 S.R.S. 12/17/70

BRUNING 44-131 40992-1

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
ALPHABETICAL INDEX

GRANTOR	SHEET NO.	PARCEL NO.
A		
ADAMS-BATCHELDER, GREGG P. & LAURIE A.	28	64
ALVAREZ, NARCISO U. & JOSEPHINE	22	4
ANDERSON, PAUL A. & JODY A.	27	54
B		
BALL, THOMAS D. & SUSAN G.	23	12
BARAW, SONJA J.	31	77
BATES, WAYNE P. & MARGARET	29	41
BIANCHI, MURIEL W.	26	48
BIRON, GLORIA A.	22	2
BLACK, JAMES C. & SALLY A.	23	13
BOLDUC, MARY L.	23, 24	18
BOYD, ANN W.	24	21
BRULE, RONALD N. & SUE F.	22	7
BUCKLEY, BRUCE P. & JEANNINE B.	29	70
BURNHAM, HAZEL C.	31	78
C		
CAMPO, ALAN P. & SUSAN S.	24, 25	28
CANO, STEPHEN M. & FLORENCE C.	25	34
CAREY, THOMAS E. & CAROL M.	31	80
CARLSON, ANNA	27, 28	60
CASSANI, MICHAEL J. & MARY A.	23	15
CLACK, ROBERT G. & JOAN E.	24	22
COLF, BARBARA H.	31	79
COLOMBO, HARRY L., M.D. & RUTH E.	28, 29	65
COMMO, LYNN L. & DONALD P.	31	81
CORRIVEAU, PATRICK L., JR. & LILLIAN M.	26	46

SCOTT RYAN
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PRFX TABCS3AL.PRF
DATE PLOTTED 11-JUL-1989
PROF. ADMIN. 5:41

GRANTOR	SHEET NO.	PARCEL NO.
D		
DANIELS, JAMES E. & DONNA C.	28, 29	69
DOWLING, DANIEL P. & ROBIN F.	24	25
E		
ELDRED, STEVEN J. & LOUISE C.	22	6
F		
FERNADEZ, PHILLIP J., JR.	27, 28	58
FERNANDEZ, PHILLIP J., SR. & PAULINE	25, 26	40
FERRY, RONALD M., JR., M.D. & SYLVIA T.	30	75
FITZSIMMONS, MARK A.	22, 23	11
FRANZI, OLIVE R.	28	59
FRY, VIRGINIA L.	22, 23	11

GRANTOR	SHEET NO.	PARCEL NO.
G		
GARCIA, MANUEL M., JR. & MARY W.	29, 30	73
GIBSON, ROBERT H. & KATHRYN F.	28, 29	66A & B
GIDNEY, ENNIS J. & JANE C.	30, 31	74
GIFFIN, SHIRLEY E.	25, 26	39
GOMEZ, LORRETTA M. SAULT	26, 27	53
GRIFFIN, DONALD W. & LOUISE S.	25	33
H		
HARLOW, RICHARD H. & IRENE J.	27	57
HATCH, EILEEN P.	26	50
HILL, W. SAMUEL & SHANNON S.	24	23
HOLT, MARTHA L. SAULT	26, 27	53
HOWARD, GEOFFREY R. & MARGARET S.	25	35
HOWARD, JOSEPH J. & VIRGINIA K.	29, 30	71
HOYT, BARBARA G.' LIFE ESTATE	26	51
HOYT, DOUGLAS S. & CHARLOTTE L.		
HOYT, MICHAEL L.		
HUDSON, DANA V. & DEBRA S.	24, 25	29
I		
INNES, JOAN C.	29	67

GRANTOR	SHEET NO.	PARCEL NO.
J		
JARRY, CLARENCE F. & YVONNE R.	31, 32	82
JOHNSON, BARBARA C.	24	20
JORDAN, ALBERT H. & FLORENCE C.	26	45
K		
KAPAZA	23	14
KELLEY, NORMAN P. & VIRGINIA C.	31, 32	84
KELTY, PATRICK W. & LAURIE A.	26, 27	52
KILLION, GAYLY J.	22	10
L		
LADD, ANNA	28	61
LAVIN, ANGEL J. & KATHERINE E.	22	9
LENDWAY, ALAN A. & JANE A.	26	43
LINQUIST, VERNON R. & JUDITH A.	25	30
LYONS, ROBERT E. & MARIE A.	27	56

MONTPELIER

VEGC IX 400(7)

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
ALPHABETICAL INDEX

GRANTOR	SHEET NO.	PARCEL NO.
M		
MACDOUGAL, ALLAN B. & DORIS M.	28	62
MARCOUX, LUCIEN J. & CECILE F.	22	5
MELANSON, DOREEN E.	25	32
MICCOLO, MICHAEL C. & GERTRUDE G.	27	55
MILOSEVICH, PAMELA C.	24	24
MORSE, BRENT K. & SUSAN L.	31	83
MYERS, BRYAN L. & JUDITH H.	22	8
N		
O		

GRANTOR	SHEET NO.	PARCEL NO.
P		
PAIN, PHILIPPE C.P. & ELIZABETH C.	24	26
PARKER, JAYNE	23, 24	19
PLAGGE, RAYMOND P. & SUSAN E.	22, 23	1
POITRAS, JAMES & CAROLE A.	30, 31	76
POTTER, RANDON E. & KATHARINE M.	25	36
Q		
QUARANTA, MICHAEL A. & STEPHANIE L.	26	47
R		
RAMSAY, JOHN W.	25	38
REILLY, TINA M. RICHARDSON	26	44
RICHARDSON, ROBERT C. & KATHLEEN A.	26	44

GRANTOR	SHEET NO.	PARCEL NO.
S		
SANGER, PETER D. & JUDITH A.	26	42
SAULT, LUCILLE K.	26, 27	53
SHERIDAN, THOMAS D.	24	27
SHIPPEE, MATTHEW A. & RHONDA L.	25	31
SMITH, DENNIS L. & GERALDINE R.	23	16
SPAULDING, DAVID C. & LESLIE A.	23	17
STACKPOLE, LEONA W., LIFE ESTATE	27, 28	58
STEVENS, ROBERT C. & JANET	26	49
T		
TATUM, DON C. & SHARON P.	28	63
TILLEY, ROBERT S. & CAROL ANN	29	68
TOOLAN, RAYMOND J. & SUSAN J.	22	3
U		

GRANTOR	SHEET NO.	PARCEL NO.
V		
W		
WALKER, JON R.	24	21
WALKER, MAE A., LIFE ESTATE	24	21
WALKER, ROBERT I.	24	21
WHITE, DONALD R. & MARILYN B.	25	37
WOOD, NOEL G. & JEANNINE G.	29	72
X		
Y		
Z		

ACCT. RYAN
ZFAZE70J076B033ALP.DGN
PRF: 76B033AL2.PRF
DATE PLOTTED 11-JUL-1985
PROP. ADMIN. E-8A

MONTPELIER

MEGO M6400 (7)

SHEET [illegible] OF 3[illegible]

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1	PLAGGE, RAYMOND P. & SUSAN E.	22, 23	16+79 LT. 17+50 LT. ±	18+56 LT. 17+80 LT. ±	0.34A±			WD	02-16-89	MONTPELIER	223	31-32	1 1/2 SWF BUILDING WITH ATTACHED CONC. LOADING DOCK AND PAD (D-3)
2	BIRON, GLORIA A.	22	13+43 LT. 13+80 LT. ±	15+23 LT.	0.09A±			WD		MONTPELIER			4050 S.F. ± 2 SWF HOUSE WITH ATTACHED PORCHES (D-1) GARAGE 784 S.F. ± 1220 S.F. ±
			13+94 LT. 13+96 LT. 13+90 LT. 14+13 LT. ± 14+35 LT. 14+85 LT. 13+85 LT.	14+44 LT. 15+19 LT. 14+12 LT. 14+35 LT. ± 14+50 LT. 15+15 LT. 15+19 LT.		0.21A±	EASE. TO REMOVE (T) 0.02A± SLOPE (P) 0.03A± ALL R.T. & I.						PICKETT FENCE GARAGE (D-2) PICKETT FENCE PICKETT FENCE
3	TOOLAN, RAYMOND J. & SUSAN J.	22	11+43 RT. 11+50 RT. 11+53 RT.	11+47 RT. 11+85 RT.			EASE. (P) EASE. (T) EASE. (P)	WDOE		MONTPELIER			CONSTRUCT RETAINING WALL WITH METAL HANDRAIL CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAIL CONSTRUCT RETAINING WALL WITH METAL HANDRAIL
4	ALVAREZ, NARCISO U. & JOSEPHINE	22	11+92 RT. 11+98 RT. 12+27 RT. 12+30 RT. 12+80 RT. 12+83 RT. 13+00 RT. 13+06 RT.	12+24 RT. 12+77 RT. 12+94 RT. 13+12 RT.			DRIVE (T) EASE. (P) EASE. (T) EASE. (P) EASE. (T) EASE. (P) DRIVE (T) EASE. (P)	WDOE		MONTPELIER			12' PAVED CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAIL CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAIL CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL 12' PAVED CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL
5	MARCOUX, LUCIEN J. & CECILE F.	22	13+14 RT. 13+16 RT. 13+58 RT.	13+52 RT.			EASE. (T) EASE. (P) DRIVE (T)	WDOE		MONTPELIER			CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAIL CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL 12' PAVED IN COMMON WITH PARCEL NO. 6
6	ELDRED, STEVEN J. & LOUISE C.	22	13+45 RT. 13+58 RT. 13+69 RT. 13+66 RT.	13+70 RT. 14+16 RT.			INSTALL (T) DRIVE (T) EASE. (P) EASE. (T)	WDOE		MONTPELIER			D.I. & CULVERT 12' PAVED IN COMMON WITH PARCEL NO. 5 CONSTRUCT CONCRETE RETAINING WALL WITH METAL HANDRAIL CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAIL

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	19, 31	PARCEL NO. 74 GIDNEY, ADDED LANDSCAPE (T) AT STA. 58+53 LT. -63+32 LT. ADDED SLOPE (T) 2, S.F. ± AT STA. 62+07 LT. - 62+19 LT. PER CO. 7383	9-16-88	A. S. J.	J. D. P.
2	5, 6, 9	PARCEL NO. 13 BLACK, CHANGE TITLE TO BLACK, JAMES C. & SALLY A. FROM BLACK, JAMES C. & SALLY A. PER CO. 7390	9-21-88	A. S. J.	J. D. P.
3	15, 26	PARCEL NO. 52 KELTY, AT STA. 38+66RT. ADD EASE. TO REMOVE (T) CONC. RETAINING WALL (BY OPTION ONLY) PER CO 7421	10-24-88	A. S. J.	J. D. P.
4	17, 28	PARCEL NO. 64 BATCHELDER, ADDED LANDSCAPE(T) AT STA. 48+84 LT. - 50+25 LT. TREES & SCHRUB PER. CO. 7442	11-02-88	A. S. J.	J. D. P.
5	5, 13 25, 26	PARCEL NO. 40 FERNANDEZ: REVISE TITLE TO READ PHILLIP J. FERNANDEZ, SR. & PAULINE PER. CO. 7454	11-22-88	M. J. R.	J. D. P.
6	5, 16 27, 28	PARCEL NO. 58 FERNANDEZ. CHANGE TITLE TO READ PHILLIP J. FERNANDEZ, JR. & LEONA W. STACKPOLE, LIFE ESTATE. PER CO. 7455	11-22-88	M. J. R.	J. D. P.
7	19, 31	PARCEL NO. 74 GIDNEY: ADD REMOVE & RESET AT 62+37LT., YARD LIGHT PER. CO. 7459	12-13-88	M. J. R.	J. D. P.
8	17	PARCEL NO. 59 & 60 DELETED CUL.(P) AT STA. 46+00 RT. & LT. PER. CO. 7529	1-3-89	J. D. P.	J. D. P.
9	18, 28 2	PARCEL NO. 66 DELETED REMOVE & RESET AT 50 +35LT. ~ 51+00LT. AND 51+00LT. ~51+03LT. PER. CO. 7505	1-20-89	M. J. R.	K. D. P.
10	23	PARCEL NO. 16 SMITH ADD SAVE TO 30" ELM AT STA. 19+89 RT. PER. CO. 7520	1-25-89	A. S. J.	K. D. P.
11	11	PARCEL NO. 25 DOWLING ADD AREA OF 14 S.F. ± FOR SLOPE (T) BETWEEN STATIONS REV. 25+24LT. TO REV. 25+57LT. PER. CO. 07585	2-02-89	A. S. J.	J. D. P.
12	15, 27	PARCEL NO. 53 SAULT: ADD EASE (T) AND ADD CONST. WALK AT STA. 39+20LT. ~ 39+27LT. PER. CO. 07579	2-06-89	A. S. J.	J. D. P.
13	12	PARCEL NO. 34 CANO: CHANGE SLOPE AREA FROM 235 SF± TO 30 S.F. ± PER. CO. 07577	2-06-89	A. S. J.	J. D. P.

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LEGEND

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SR SR — SLOPE RIGHTS
P — PROPERTY LINE
L — TOP OF CUT
TOE OF SLOPE

PMS NO. 768033

APPROVED: LAWRENCE BLISS, L.S. DATE: 09-06-88
AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC M64(
SHEET 31 OF 34

PROF. ADMIN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
7	BRULE, RONALD N. & SUE F.	22	14+23 RT. 14+27 RT. 14+28 RT. 14+58 RT.	14+75 RT.			DRIVE (T) SLOPE (T) 206 S.F.± CUL. (P) REMOVE & REPLACE (T)	WDOE		MONTPELIER			12' PAVED WOODEN STEPS
8	MYERS, BRYAN L. & JUDITH H.	22	14+75 RT. 15+54 RT.	15+48 RT.			SLOPE (T) 0.01A± DRIVE (T)	AGREE	4/03/89				555 S.F.± 12' PAVED
9	LAVIN, ANGEL J. & KATHERINE E.	22	15+19 LT. 15+18 LT. 15+80 LT. 16+07 LT. 16+19 LT. 16+19 LT. 15+55 LT. 15+19 LT.	16+88 LT. 15+45 LT. 16+88 LT. 15+86 LT. 16+88 LT.	0.05A±	0.55A±	SLOPE (T) 98 S.F.± SLOPE (T) 300 S.F.± DRIVE (T) REMOVE & RESET (T) SLOPE (T) 115 S.F.±	WD		MONTPELIER			2169 S.F.± 16' PAVED STONE RETAINING WALL STONE RETAINING WALL
10	KILLION, GAYLY J.	22	15+54 RT. 15+61 RT.	 16+24 RT.			DRIVE (T) SLOPE (T) 303 S.F.±	AGREE.					12' PAVED IN COMMON WITH PARCEL NO. 8

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
14	18, 28	PARCEL NO. 65 COLOMBO DELETED DRIVE AT STA. 49+10 RT. ADD DRIVE AT STA. 49+60 RT. PER. CO. 07574	2-06-89	A. S. J.	L. W. B.
15	15, 26	PARCEL NO. 52 KELEY: ADD SLOPE (T) AT STA. REV. 38+68 RT. ~ 38+78 RT. PER. CO. 07575	2-06-89	A. S. J.	L. W. B.
16	10, 11, 13-15 20, 21 23, 24 26, 31	PARCELS NO. 17-19-23-25-28-36-39-44-47-49 -78-81 ADD EASE (T) & CONSTRUCT WALK ON ALL THESE PARCELS PER. CO. 07576	2-06-89	A. S. J.	L. W. B.
17	19, 29	PARCEL NO. 70 BUCKLEY, CHANGE SLOPE FROM (P) TO (T) PER. CO. 7624	3-17-89	A. S. J.	L. W. B.
18	14, 26	PARCEL NO. 43 LENDWAY: DELETE SLOPE AT STA. 35+39 RT. ~ 35+54 RT. AND SLOPE AT STA. 35+62 RT. ~ 35+88 RT. PER. CO. 7644	3-14-89	A. S. J.	J. D. P.
19	14, 26	PARCEL NO. 45 JORDON: DELETED SLOPE (P) AT REV. 35+88 RT. ~ REV. 36+36 RT. AND SAVE TREES AT STA. REV. 36+00 RT. & REV. 36+21 RT. PER. CO. 07578	3-14-89	A. S. J.	J. D. P.
20	9, 23	PARCEL NO. 13 BLACK. CHANGE ENDING STA. TO OF SLOPE TO 18+50 LT. AND AREA TO 8 S.F.±	3-17-89	M. J. R.	J. D. P.
21	12, 25	PARCEL NO. 31 SHIPPEE. ADD REMOVE & RESET FOR YARD LIGHT AT REV. 28+67 RT. MODIFY SLOPE AT REV. 28+15 RT. ~ REV. 28+73 RT. PER C. O. 7623.	3-17-89	M. J. R.	J. D. P.
22	20, 31	PARCEL NO. 78 BURNHAM. CHANGE SLOPE AT 63+40 LT. ~64+19 LT. TO 132 S.F.± & DELETE SLOPE AREA AT STA. 64+31 LT. ~ 64+42 LT. ADD NEW SLOPE LIMITS FROM 63+32 LT. ~ 63+ 85 LT. (25 S.F.±). PER C. O. 7645	3-17-89	M. J. R.	J. D. P.
23	20, 31	PARCEL NO. 80 CAREY. CHANGE SLOPE LIMITS FROM 65+09 RT. ~ 66+34 RT. TO 66+34 RT. ~ 66+32 RT. DECREASE AREA TO 2994 S.F.± PER C. O. 7646	3-17-89	M. J. R.	J. D. P.
24	21, 31	PARCEL NO, 81 MERRILL. DELETE 2 SLOPE TAKINGS & EASEMENT. PER C. O. 7647	3-17-89	M. J. R.	J. D. P.
25	21, 31	PARCEL NO. 82 JARRY. CHANGE END OF SLOPE AREA FROM 66+61 RT. TO 66+46 RT. 68 S.F.±. PER C. O. 7648	3-17-89	M. J. R.	J. D. P.

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AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
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SHEET 32 OF 3[illegible]

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TABLE OF PROJECT PROPERTY ACQUISITION

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11	FITZSIMMONS, MARK A. FRY, VIRGINIA L.	22, 23	17+41 RT.	17+54 RT.			EASE. TO REMOVE (T)		AGREE.	03-27-89				DROP INLET
12	BALL, THOMAS D. & SUSAN G.	23	17+99 RT. 18+67 RT. 18+79 RT. 19+01 RT.	18+51 RT. 19+04 RT.			DRIVE (T) EASE. TO REMOVE (T) CUL. (P)		WDOE		MONTPELIER			GRANITE RETAINING WALL 10' GRAVEL 8' PINE
13	BLACK, JAMES C. & SALLY A.	23	18+42 LT. 18+44 LT. 18+98 LT. 19+30 LT.	18+50 LT. 18+48 LT.			SLOPE (P) REMOVE (T) EASE. (T) DRIVE (T)	8 S.F.±	WDOE		MONTPELIER			12" CMP - BY OPTION ONLY CONSTRUCT WALK & CONCRETE STEPS WITH METAL HANDRAIL 10' GRAVEL
14	KAPZA	23	19+03 RT. 19+22 RT. 19+34 RT. 19+34 RT. 19+51 RT.	19+18 RT. 19+26 RT. 19+62 RT. 19+53 RT.			CUL. (P) INSTALL (P) DRIVE (T) CUL. (P) INSTALL (P)		WDOE		MONTPELIER			GRANITE CURB 26' PAVED (OCTOBER LANE) GRANITE CURB
15	CASSANI, MICHAEL J. & MARY A.	23	19+39 LT. 19+80 LT. 19+96 LT.	19+91 LT.			SLOPE (T) EASE. (T) DRIVE (T)	124 S.F.±	AGREE.					CONSTRUCT WALK 10' PAVED
16	SMITH, DENNIS L. & GERALDINE R.	23	19+60 RT. 19+62 RT. 20+00 RT.	20+61 RT. 19+65 RT.			SLOPE (T) CUL. (P) DRIVE (T)	398 S.F.±	WDOE		MONTPELIER			12' PAVED

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
26	21, 31	PARCEL NO. 83 MORSE. DELETE SLOPE AREA TAKING PER C.O. 7649	3-17-89	M. J. R.	J. D. P.
27	21, 31	PARCEL NO. 84 KELLEY. DELETE SLOPE AREA AT 67+76 LT. ~ 68+12 LT. PER C.O. 7650	3-17-89	M. J. R.	J. D. P.
28	8, 22	PARCEL NO. 10 MURPHY. CHANGE TITLE TO KILLION, GAYLY J. PER C.O. 7654	3-20-89	M. J. R.	J. D. P.
29	18, 29	PARCEL NO. 67 GOWANS. DELETE ROBERT A. GOWANS FROM TITLE PER C.O. 7655	3-20-89	M. J. R.	J. D. P.
30	27	PARCEL NO. 54 ANDERSON: REMOVE 'LILAC' STA. 39+87 RT. ADD '1' CHERRY AT STA. 40+14 28' RT. SEE NOTES PER. CO. 07573	3-28-89	M. J. R.	J. D. P.
31	11, 24	PARCEL NO. 27 SHERIDAN. CHANGE DRIVE FROM 12' TO 16' PER C.O. 7667.	4-13-89	M. J. R.	L. W. B.
32	8, 22	PARCEL NO. 9 LAVIN. ADD WALK (T) AT STA. 15+80 LT. ~ 16+00 LT. - BY OPTION ONLY. ADD SR(T), 324 S.F.±, FROM 15+55 LT. ~ 15+86 LT. PER C.O. 7665.	4-13-89	M. J. R.	L. W. B.
33	12, 25	PARCEL NO. 31 SHIPPEE. CHANGE BEGIN. STA. OF CUL(P) FROM 29+78 RT. TO 29+66 RT. PER C.O. 7666.	4-17-89	M. J. R.	L. W. B.
34	19, 29 30	PARCEL NO. 71 HOWARD. DELETE TAKING REVISE SLOPES AS FOLLOWS: 55+30 LT. ~ 55+78 LT., SR(T), 50 S.F.±. 57+72 LT. ~ 58+53 LT., SR(T), 560 S.F.±. PER C.O. 7668.	4-18-89	M. J. R.	L. W. B.
35	19, 30	PARCEL NO. 74 GIDNEY. DELETE TAKING. DELETE SR(T) AT 62+07 LT. ~ 62+19 LT. INCREASE SR(T) AT 58+53 LT. ~ 58+73 LT. TO 300 S.F.±. CHANGE SR(T) AT 58+90 LT. ~ 61+95 LT., 0.03A±, TO 58+90 LT. ~ 59+60 LT., 90 S.F.±. PER C.O. 7669	4-18-89	M. J. R.	L. W. B.
36	20, 31	PARCEL NO. 78 BURNHAM. DELETE SR(T). PER C.O. 7670.	4-17-89	M. J. R.	L. W. B.
37	21, 31	PARCEL NO. 81 MERRILL. CHANGE TITLE TO COMMO, LYNN L. & DONALD P. PER C.O. 7671	4-17-89	M. J. R.	L. W. B.
38	9, 23	PARCEL NO. 15 CASSANI. CHANGE TITLE FROM HAGGETT TO CASSANI, MICHAEL J. & MARY A. PER C.O. 7677	5-2-89	A. S. J.	F. J. M.

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AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC (4 4007)

SHEET 33 OF 34

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17	SPAULDING, DAVID C. & LESLIE A.	23	20+03 LT. 20+14 LT. 20+21 LT. 20+58 LT. 20+70 LT. 20+74 LT.	20+10 LT. 20+66 LT. 20+78 LT.			SLOPE DRIVE SLOPE EASE DRIVE SLOPE	(T) (T) (T) (T) (T) (T)	14 S.F.± 90 S.F.± 8 S.F.±	AGREE.					12' GRAVEL CONSTRUCT CONCRETE WALK 10' PAVED
18	BOLDUC, MARY L.	23, 24	20+60 RT. 21+00 RT. 21+08 RT.	20+97 RT. 21+62 RT.			SLOPE DRIVE SLOPE	(T) (T) (T)	208 S.F.± 284 S.F.±	AGREE.	04-05-89				10' PAVED
19	PARKER, JAYNE	23, 24	20+78 LT. 21+04 LT. 21+20 LT.	21+15 LT.			SLOPE EASE DRIVE	(T) (T) (T)	82 S.F.± 	AGREE.	05-24-89				CONSTRUCT CONCRETE WALK 8' GRAVEL
20	JOHNSON, BARBARA COTTLE	24	21+85 LT. 22+03 LT.				DRIVE EASE.	(T) (T)		AGREE.	06-06-89				10' PAVED REMOVE 36" STUMP
21	WALKER, ROBERT I. WALKER, JON R. BOYD, ANN W. WALKER, MAE A., LIFE ESTATE	24	21+61 RT. 21+86 RT. 22+21 RT. 22+58 RT.	22+00 RT.			SLOPE EASE. DRIVE EASE.	(T) (T) (T) (T)	78 S.F.± 	AGREE.	03-31-89				REMOVE 30" STUMP 12' PAVED REMOVE 12" STUMP
22	CLACK, ROBERT G. & JOAN E.	24	22+76 RT. 23+14 RT.				EASE. DRIVE	(T) (T)		AGREE.	03-27-89				REMOVE 15" STUMP 14' PAVED

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39	13, 25	PARCEL NO. 38 RAMSAY. CHANGE WIDTH OF DRIVE TO 24'. PER C.O. 7660.	5-10-89	J. D. P.	L. W. B.
40	16, 27	PARCEL NO. 54 ANDERSON. DELETE SR(P) AT 40+82 RT.~ 41+33 RT. MAKE SR(T) AT 40+95 RT.~ 41+33 RT. 170 S.F.±. PER C.O. 7673	5-10-89	J. D. P.	L. W. B.
41	28	PARCEL NO. 65 COLOMBO. ADD NOTE REGARDING RETAINING WALL. PER C.O. 7550	5-10-89	M. J. R.	J. D. P.
42	25	PARCEL NO. 29 HUDSON. WIDEN DRIVE OPENING C.O. 7683	5-11-89	J. D. P.	L. W. B.
43	9, 23	PARCEL NO. 12 BALL. ADD EASE. TO REMOVE (T) FOR TREE. PER C.O. 7679	5-12-89	J. D. P.	L. W. B.
44	18, 29	PARCEL NO. 67 GOWANS. CHANGE TITLE TO INNES, JOAN C. PER C.O. 7689	5-12-89	M. J. R.	J. D. P.
45	9, 23	PARCEL NO. 13 BLACK. ADD REMOVE (T) 18+44 LT.~ 18+48 LT., 12" CMP, BY OPTION ONLY. PER C.O. 7695.	5-18-89	M. J. R.	L. W. B.
46	7, 22	PARCEL NO. 6 ELDRED. ADD EASE. TO INSTALL (T) FOR D.I. & CULVERT. PER C.O. 7697.	5-23-89	M. J. R.	J. D. P.
47	22	PARCEL NO. 3 TOOLAN. EXTEND SIDEWALK ON RIVER ST. AND ADD RAMP AT 11+00 RT.~ 11+60 RT. PER C.O. 7698.	5-23-89	M. J. R.	J. D. P.
48	28	PARCEL NO. 59 FRANZI. ADD DRIVE TURN AROUND TO LAYOUT SHEET. PER C.O. 7699.	5-23-89	M. J. R.	J. D. P.
49	13, 29	PARCEL NO. 41. CREATE NEW PARCEL. DRIVE (T) AT STA. 54+00 RT., 22' GRAVEL. NEW NAME IS BATES, WAYNE P. & MARGARET B. PER C.O. 7701.	5-29-89	M. J. R.	J. D. P.
50	24	PARCEL NO. 28 CAMPO. EXTEND LIMITS OF WALK LOCATED AT 26+28 LT. PER C.O. 7702.	5-29-89	M. J. R.	J. D. P.
51	13, 25	PARCEL NO. 38 RAMSAY. MOVE EXISTING DRIVE AT REV. 32+50 LT. TO REV. 32+74 LT. PER C.O. 7694.	5-31-89	M. J. R.	J. D. P.
52	13,25	PARCEL NO. 35 HOWARD TITLE CHANGE FROM L'ANGE TO HOWARD, GEOFFREY R. & MARGARET S. PER. CO. 7727	6-22-89	A. S. J.	
53	26	PARCEL NO. 42 SANGER. WIDEN BASE OF DRIVE. PER C.O. 7724	6-29-88	M.J.R.	J.D.P.

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R. O. W. PLANS

MONTPELIER
MEGC M64 (7)

SHEET 34 OF 3[illegible]

PROP. ADMIN. 5-87

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23	HILL, W. SAMUEL & SHANNON S.	24	22+83 LT. 23+05 LT. 23+45 LT. 23+65 LT.				REMOVE & RESET (T) DRIVE (T) EASE (T) DRIVE (T)	AGREE.	05-25-89				2 WOOD POSTS 18' GRAVEL CONSTRUCT CONCRETE WALK 10' PAVED
24	MILOSEVICH, PAMELA CAROL	24	23+69 RT. 24+10 RT. 24+19 RT. 24+44 RT.	24+03 RT. 24+26 RT.			SLOPE (T) 150 S.F.± DRIVE (T) SLOPE (T) 7 S.F.± REMOVE & RESET (T)	AGREE.	4-13-89				16' PAVED SIGN
25	DOWLING, DANIEL P. & ROBIN F.	24	24+60 LT. 24+70 LT. 25+17 LT. REV. 25+24 LT. REV. 25+55 LT.	REV. 25+57 LT. REV. 25+57 LT.			DRIVE (T) REMOVE & RESET (T) EASE (T) SLOPE (T) 38 S.F.± INSTALL (P)	WDOE					16' GRAVEL STONEWALL CONSTRUCT PAVED WALK GRANITE CURB
26	PAIN, PHILIPPE C.P. & ELIZABETH C.	24	REV. 25+05 RT. REV. 25+13 RT. REV. 25+14 RT.				DRIVE (T) REMOVE & RESET (T) EASE. (T)	AGREE.	4-09-89				14' PAVED FIELD STONE RETAINING WALL REPLACE CONCRETE STEPS
27	SHERIDAN, THOMAS D.	24	REV. 26+58 RT.				DRIVE (T)	AGREE.	4-04-89				16' PAVED
28	CAMPO, ALAN P. & SUSAN S.	24,25	REV. 26+28 LT. REV. 26+73 LT. REV. 26+73 LT.	REV. 27+07 LT.			EASE (T) EASE. (T) SLOPE (P) 17 S.F.±	WDOE		MONTPELIER			CONSTRUCT WALK REMOVE 36" STUMP

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
54	8	PARCEL NO. 9 LAVIN. DELETE WALK (T). PER C.O. 7736.	7-6-89	M.J.R.	[illegible]
55	17,28	PARCEL NO. 62 MACDOUGAL. DELETE DORIS M. FROM PLANS. PER C.O. 7737	7-6-89	M.J.R.	[illegible]
56	20,31	PARCEL NO. 80 CAREY. CHANGE WIDTH OF DRIVE FROM 16' TO 24' PER C.O. 7738.	7-6-89	M.J.R.	[illegible]
		Mylars to Design 7-12-89			

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PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
29	HUDSON, DANA V. & DEBRA S.	24, 25	REV. 27+68 RT.				DRIVE (T)	AGREE.					10' GRAVEL
30	LINDQUIST, VERNON R. & JUDITH A.	25	REV. 27+82 LT. REV. 27+87 LT.	REV. 28+35 LT.			DRIVE (T) SLOPE (T) 310 S.F.±	AGREE.					16' PAVED
31	SHIPPEE, MATTHEW A. & RHONDA L.	25	REV. 28+79 RT. REV. 29+66 RT.	REV. 29+88 RT.			DRIVE (T) CUL. (P)	WDOE		MONTPELIER			16' CONCRETE
32	MELANSON, DOREEN E.	25	REV. 28+34 LT. REV. 28+67 LT. REV. 28+72 LT. REV. 28+88 LT.	REV. 28+65 LT. REV. 29+09 LT.			SLOPE (T) 0.01A± DRIVE (T) SLOPE (T) 295 S.F.±	AGREE.					496 S.F.± 10' GRAVEL PAVED STEPS
33	GRIFFIN, DONALD W. & LOUISE S.	25	REV. 29+09 LT. REV. 29+40 LT. REV. 29+54 LT.	REV. 29+47 LT.			SLOPE (T) 152 S.F.± EASE. (T) DRIVE (T)	AGREE.	03-28-89				CONSTRUCT FLAGSTONE WALK 10' GRAVEL
34	CANO, STEPHEN M. & FLORENCE C.	25	REV. 29+64 LT. REV. 29+67 LT. REV. 29+95 LT.	REV. 29+91 LT.			DRIVE (T) SLOPE (T) 30 S.F.± EASE. (T)	AGREE.	04-03-89				10' PAVED CONSTRUCT PAVED WALK

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

DR. RT.- DRAINAGE RIGHT
DIT. RT.- DITCHING RIGHT
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DRIVE RT.- DRIVE RIGHT
CUL. RT.- CULVERT RIGHT
(D)- DEMOLITION OR REMOVAL
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND
CONST. EASE. — CONSTRUCTION EASEMENT
SR SR — SLOPE RIGHTS
P — PROPERTY LINE
L — TOP OF CUT
TOE OF SLOPE

PMS NO. 76B033

APPROVED: LAWRENCE BLISS, L.S. DATE: 09-06-88
AGENT D, PLANS & TITLES

R. O. W. PLANS
MONTPELIER
MEGC M4[illegible] (7)
SHEET 3[illegible] OF [illegible]

PROP. ADMIN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS			TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
35	HOWARD, GEOFFREY R. & MARGARET S.	25	REV. 31+08 RT.				DRIVE	(T)		AGREE.					10' PAVED
36	POTTER, RANDON E. & KATHARINE M.	25	REV. 31+00 LT. REV. 31+61 LT. REV. 31+95 LT. REV. 32+03 LT.	REV. 31+89 LT. REV. 32+13 LT.			SLOPE EASE DRIVE SLOPE	(T) (T) (T) (T)	172 S.F.± 10 S.F.±	AGREE.	05-03-89				 REMOVE & RESET STONE WALK 14' PAVED
37	WHITE, DONALD R. & MARILYN B.	25	REV. 31+80 RT.				DRIVE	(T)		AGREE.	03-31-89				16' PAVED
38	RAMSAY, JOHN W.	25	REV. 32+13 LT. REV. 32+74 LT.	REV. 32+45 LT.			SLOPE DRIVE	(T) (T)	16 S.F.±	AGREE.					 24' PAVED
39	GIFFIN, SHIRLEY E.	25, 26	REV. 33+00 LT. REV. 33+29 LT. REV. 33+50 LT.				DRIVE EASE EASE	(T) (T) (T)		AGREE.	06-06-89				8' GRAVEL CONSTRUCT PAVED WALK CONSTRUCT PAVED WALK
40	FERNANDEZ, PHILLIP J., SR. & PAULINE	25, 26	REV. 33+64 RT.				DRIVE	(T)		AGREE.	04-04-89				16' PAVED
41	BATES, WAYNE P. & MARGARET B.	13, 29	54+00 RT.				DRIVE	(T)							22' GRAVEL

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LEGEND

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SR SR
P
L
CONSTRUCTION EASEMENT
SLOPE RIGHTS
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

PMS NO. 768033

APPROVED: LAWRENCE BLISS, L.S. DATE: 09-06-88
AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC M6400(7)

SHEET 37 OF 335

PROP. ADMIN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

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42	SANGER, PETER D. & JUDITH A.	26	REV. 33+93 RT. REV. 34+00 RT. REV. 34+74 RT.	REV. 34+82 RT. REV. 34+79 RT.			DRIVE SLOPE REMOVE	(T) (P) (T)	377 S.F.±	WDOE		MONTPELIER			16' PAVED UNDERDRAIN
43	LENDWAY, ALAN A. & JANE A.	26	REV. 34+82 RT. REV. 35+60 RT.	REV. 35+00 RT.			SLOPE DRIVE	(P) (T)	23 S.F.±	WDOE		MONTPELIER			10' PAVED
44	RICHARDSON, ROBERT C. & KATHLEEN A. REILLY, TINA MARIE	26	REV. 35+34 LT. REV. 35+60 LT.				EASE DRIVE	(T) (T)		AGREE	04-27-89				CONSTRUCT PAVED WALK 12' PAVED
45	JORDAN, ALBERT H. & FLORENCE C.	26	REV. 36+70 RT.				DRIVE	(T)		AGREE	05-01-89	MONTPELIER			16' PAVED
46	CORRIVEAU, PATRICK L., JR., & LILLIAN M.	26	REV. 36+40 LT.				DRIVE	(T)		AGREE.	04-04-89				16' PAVED
47	QUARANTA, MICHAEL A. & STEPHANIE L.	26	REV. 36+83 LT. REV. 37+23 LT.				EASE DRIVE	(T) (T)		AGREE.	05-30-89				CONSTRUCT PAVED WALK 10' GRAVEL

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R. O. W. PLANS

MONTPELIER
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SHEET 38 OF 335

PROF. ADMIN. 5-87

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
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TABLE OF PROJECT PROPERTY ACQUISITION

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48	BIANCHI, MURIEL W.	26	REV. 37+75 RT.				DRIVE	(T)		AGREE.					16' PAVED
49	STEVENS, ROBERT C. & JANET	26	REV. 37+65 LT. REV. 38+00 LT.				EASE. DRIVE	(T) (T)		AGREE.	05-03-89				CONSTRUCT PAVED WALK 16' PAVED
50	HATCH, EILEEN P.	26	REV. 38+52 RT. REV. 38+60 RT. REV. 38+66 RT. REV. 38+66 RT.	REV. 38+53 RT. REV. 38+70 RT. 			 DRIVE SLOPE EASE.	 (T) (P) (T)	 4 S.F.±	WDOE		MONTPELIER			CONCRETE RETAINING WALL 12' PAVED REMOVE CONCRETE RETAINING WALL
51	HOYT, MICHAEL L. HOYT, DOUGLAS S. & CHARLOTTE L. HOYT, BARBARA G.- LIFE ESTATE	26	REV. 38+76 LT.				DRIVE	(T)		AGREE.	04-07-89				25' PAVED
52	KELTY, PATRICK W. & LAURIE A.	26, 27	REV. 38+70 RT. REV. 39+50 RT. REV. 39+56 RT. REV. 38+68 RT.	REV. 39+45 RT. REV. 39+65 RT. REV. 38+78 RT.			SLOPE DRIVE SLOPE SLOPE	(P) (T) (P) (T)	379 S.F.± 53 S.F.± 240 S.F.±	WDOE		MONTPELIER			 10' PAVED (BY OPTION ONLY)
53	SAULT, LUCILLE K. GOMEZ, LORETTA MAE SAULT HOLT, MARTHA LOUISE SAULT	26, 27	REV. 39+66 LT. REV. 39+20 LT.	 REV. 39+27 LT.			DRIVE EASE	(T) (T)		AGREE.					10' PAVED CONSTRUCT WALK

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LEGEND

CONST. EASE.
SR SR
SLOPE RIGHTS
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

CONSTRUCTION EASEMENT

APPROVED: [signature] DATE: 9-6-88
AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC M6400(7)

SHEET 39 OF 335

PROP. ADMIN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS			TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
54	ANDERSON, PAUL A. & JODY A.	27	REV. 39+64 RT. REV. 39+77 RT. REV. 39+79 RT. REV. 40+50 RT. REV. 40+95 RT. REV. 41+37 RT. REV. 41+47 RT. REV. 39+64 RT.	REV. 39+71 RT. REV. 40+46 RT. REV. 41+33 RT. REV. 41+50 RT. REV. 41+47 RT.			SLOPE (P) 42 S.F.± DRIVE (T) SLOPE (P) 0.01A± DRIVE (T) SLOPE (T) 0.01A± CUL. (P) DIT. (P) LANDSCAPE (T)		WDOE		MONTPELIER			8' GRAVEL 436 S.F.± 16' GRAVEL 170 S.F.±
55	MICCOLO, MICHAEL C. & GERTRUDE G.	27	REV. 40+39 LT. REV. 40+90 LT. REV. 39+73 LT. REV. 40+96 LT.	REV. 41+06 LT. REV. 41+11 LT. REV. 41+00 LT.			DRIVE (T) CUL. (P) LANDSCAPE (T) CUL. (P)			WDOE		MONTPELIER			12' GRAVEL
56	LYONS, ROBERT E. & MARIE ANN	27	REV. 41+50 RT. REV. 41+53 RT. REV. 41+75 RT.	REV. 41+52 RT.			CUL. (P) DIT. (P) DRIVE (T)			WDOE		MONTPELIER			10' PAVED
57	HARLOW, RICHARD H. & IRENE J.	27	REV. 43+30 RT.				DRIVE (T)			AGREE.	5-17-89				20' PAVED
58	FERNANDEZ, PHILLIP J.,JR STACKPOLE, LEONA W., LIFE ESTATE	27, 28	REV. 44+90 RT.				DRIVE (T)			AGREE.	5-01-89				10' PAVED

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P — PROPERTY LINE
L — TOP OF CUT
TOE OF SLOPE

APPROVED: [signature] DATE: 1-18-88
AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC M6400(7)

SHEET 40 OF 335

PROP. ADMIN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS			TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
59	FRANZI, OLIVE R.	28	REV. 45+26 RT. REV. 45+75 RT. REV. 45+72 RT. REV. 46+00 RT.	REV. 45+65 RT. REV. 45+85 RT. 			SLOPE DRIVE SLOPE INSTALL	(T) (T) (T) (T)	96 S.F.± 6 S.F.± 	AGREE	5-22-89	MONTPELIER			10' PAVED WATERLINE SLEEVE
60	CARLSON, ANNA	27,28	REV. 45+60 LT. REV. 46+00 LT. REV. 46+30 LT.	 REV. 46+42 LT.			DRIVE INSTALL SLOPE	(T) (T) (T)	 9 S.F.±	WDOE		MONTPELIER			10' GRAVEL WATERLINE SLEEVE
61	LADD, ANNA	28	REV. 46+64 LT. REV. 46+42 LT. REV. 46+47 LT. REV. 46+54 LT. REV. 46+63 LT. 47+12 LT.	47+39 LT. REV. 46+48 LT. 47+39 LT.	0.01A±		SLOPE REMOVE & RESET DRIVE REMOVE & RESET SLOPE	(T) (T) (T) (T) (T)	6 S.F.± 35 S.F.±	WDOE		MONTPELIER			75 S.F.± 6' GRANITE MARKER 12' PAVED 6' GRANITE MARKER
62	MACDOUGAL, ALAN B.	28	REV. 46+73 RT.				DRIVE	(T)		AGREE.					12' PAVED
63	TATUM, DON C. & SHARON P.	28	47+89 LT. 47+90 LT. 48+68 LT. 48+72 LT.	48+84 LT. 48+61 LT. 48+85 LT.	0.01A±		SLOPE DRIVE SLOPE	(T) (T) (T)	394 S.F.± 108 S.F.±	WDOE		MONTPELIER			520 S.F.± 12' PAVED
64	BATCHELDER ADAMS, GREGG P. & LAURIE A.	28	48+84 LT. 48+84 LT. 48+84 LT 49+33 LT. 49+36 LT.	50+25 LT. 49+24 LT. 50+25 LT. 50+23 LT.	0.02A±		SLOPE LANDSCAPE DRIVE SLOPE	(T) (T) (T) (T)	356 S.F.± 0.03A±	WDOE		MONTPELIER			902 S.F.± TREES & SHRUBS 12' PAVED 1098 S.F.±

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R. O. W. PLANS
MONTPELIER
MEGC M 6400(7)
SHEET 41 OF 335

PROP. AGMEN. 5-87

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

TABLE OF PROJECT PROPERTY ACQUISITION

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65	COLOMBO, HARRY L., M.D. & RUTH E.	28, 29	48+50 RT. 49+60 RT. 49+50 RT. 50+50 RT.	48+93 RT. 50+50 RT. 50+67 RT.			DRIVE (T) SLOPE (T) 0.01A± SLOPE (P) 48 S.F.±	WDOE					STONEWALL 15' PAVED 400 S.F.±
66A	GIBSON, ROBERT H. & KATHRYN F.	28	50+23 LT. 50+20 LT. 50+53 LT.	50+71 LT. 50+67 LT.	0.01A±		SLOPE (T) 380 S.F.± DRIVE (T)	WDOE		MONTPELIER			315 S.F.± 10' PAVED
66B		28, 29	50+86 LT. 50+86 LT.	51+00 LT. 50+92 LT.	0.01A±		SLOPE (T) 3 S.F.±						97 S.F.±
67	INNES, JOAN C.	29	51+00 LT. 51+27 LT.	51+73 LT.	0.01A±			WDOE		MONTPELIER			616 S.F.± STONE RETAINING WALL
68	TILLEY, ROBERT S. & CAROL ANN	29	51+71 LT.	52+77 LT.	0.02A±			WDOE		MONTPELIER			752 S.F.±
69	DANIELS, JAMES E. & DONNA C.	28, 29	52+32 RT.				DRIVE (T)	AGREE	5-31-89				18' GRAVEL

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SHEET 42 OF 335

PROP. ADMIN. 5-87

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

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70	BUCKLEY, BRUCE P. & JEANNINE B.	29	52+77 LT. 52+77 LT. 53+43 LT.	54+24 LT. 53+32 LT.	0.01A±		SLOPE (T) 40 S.F.± DRIVE (T)	WDOE		MONTPELIER			628 S.F.± 25' PAVED
71	HOWARD, JOSEPH J. & VIRGINIA K.	29, 30	55+30 LT. 56+62 LT. 57+08 LT. 57+72 LT. 57+97 LT. 58+53 LT.	55+78 LT. 58+53 LT.			SLOPE (T) 50 S.F.± DRIVE (T) DRIVE (T) SLOPE (T) 0.01A± REMOVE & RESET (T)						10' PAVED 12' PAVED 560 S.F.± STONE RETAINING WALL GRANITE MARKER
72	WOOD, NOEL G. & JEANNINE G.	29	54+90 RT. 55+19 RT.	56+33 RT.			DRIVE (T) SLOPE (T) 0.01A±	AGREE.	6-7-89				20' PAVED 456 S.F.±
73	GARCIA, MANUEL M., JR. & MARY W.	29, 30	56+33 RT. 57+93 RT. 58+00 RT.	57+93 RT.			SLOPE (P) 0.01A± REMOVE (T) DRIVE (T)	WDOE		MONTPELIER			474 S.F.± STONEWALL 12' PAVED
74	GIDNEY, ENNIS J. & JANE C.	30, 31	58+53 LT. 58+53 LT. 58+83 LT. 58+90 LT. 58+95 LT. 59+52 LT. 59+79 LT. 62+00 LT. 62+37 LT. 62+50 LT.	58+73 LT. 63+32 LT. 59+60 LT.			SLOPE (T) 300 S.F.± LANDSCAPE (T) DRIVE (T) SLOPE (T) 90 S.F.± REMOVE & RESET (T) REMOVE & RESET (T) CUL., DIT. & DR. (P) DRIVE (T) REMOVE & RESET (T) DRIVE (T)	WDOE		MONTPELIER			16' PAVED YARD LIGHT WOOD RAIL FENCE 12' PAVED YARD LIGHT 10' PAVED

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TOE OF SLOPE

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R. O. W. PLANS

MONTPELIER
MEGC M6400(7)

SHEET 43 OF 335

PROF. ADMIN. 5-87

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

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75	FERRY, RONALD M., JR., M.D. & SYLVIA T.	30	59+70 RT.	60+05 RT.			SLOPE	(T)	45 S.F.±	AGREE.	6-01-89				
76	POITRAS, JAMES & CAROLE A.	30, 31	61+37 RT. 60+05 RT. 62+19 RT. 62+31 RT.	62+69 RT. 60+93 RT. 62+69 RT.	0.01A±		SLOPE DRIVE SLOPE	(T) (T) (T)	391 S.F.± 74 S.F.±	WDOE		MONTPELIER			132 S.F.± 20' PAVED
77	BARAW, SONJA J.	31	62+69 RT. 62+69 RT. 63+39 RT.	63+68 RT. 63+30 RT.	0.01A±		SLOPE DRIVE	(T) (T)	170 S.F.±	WDOE		MONTPELIER			202 S.F.± 12' GRAVEL
78	BURNHAM, HAZEL C. WILLIAMS, IRENE B., TRUSTEE	31	63+96 LT. 63+90 LT. 64+27 LT.	64+52 LT.	0.01A±		EASE DRIVE	(T) (T)		WDOE		MONTPELIER			128 S.F.± CONSTRUCT WALK 16' PAVED
79	COLF, BARBARA H.	31	63+68 RT. 63+80 RT. 64+02 RT.	63+99 RT. 64+91 RT.	0.01A±		DRIVE SLOPE	(T) (T)	 0.03A±	WDOE		MONTPELIER			29 S.F.± 16' GRAVEL 1399 S.F.±
80	CAREY, THOMAS E. & CAROL M.	31	64+86 RT. 65+00 RT. 65+09 RT.	64+96 RT. 66+32 RT.			SLOPE DRIVE SLOPE	(T) (T) (T)	140 S.F.± 0.07A±	AGREE.					 24' PAVED 2994 S.F.±

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

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

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

LEGEND

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

PMS NO. 768033

APPROVED: LAWRENCE BLISS, L.S. DATE: 09-06-88
AGENT D, PLANS & TITLES

R.O.W. PLANS

MONTPELIER
MEGC M6400(7)
SHEET 44 OF 335

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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
81	COMMO, LYNN L. & DONALD P.	31	66+39 LT.				DRIVE (T)	AGREE.	5-30-89				16' GRAVEL
82	JARRY, CLARENCE F. & YVONNE R.	31, 32	66+30 RT. 66+62 RT.	66+46 RT.			SLOPE (T) 68 S.F. ± DRIVE (T)	AGREE.	3-24-89				24' PAVED
83	MORSE, BRENT K. & SUSAN L.	31	67+70 LT.				DRIVE (T)	AGREE.	05-01-89				32' GRAVEL
84	KELLEY, NORMAN P. & VIRGINIA C.	31, 32	67+70 LT. 68+28 LT. 68+50 LT.				DRIVE (T) DRIVE (T) CUL. & DR. (P)	WDOE		MONTPELIER			32' GRAVEL 34' GRAVEL
85	GREEN MOUNTAIN POWER CORPORATION												UTILITY
86	NEW ENGLAND TELEPHONE COMPANY												UTILITY
87	MONTPELIER CABLEVISION												UTILITY

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

DR. RT.- DRAINAGE RIGHT
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PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND

CONST. EASE. CONSTRUCTION EASEMENT
SR SR SLOPE RIGHTS
P PROPERTY LINE
L
TOP OF CUT
TOE OF SLOPE

PMS NO. 76B033

APPROVED: LAWRENCE BLISS, L.S. DATE: 09-06-88
AGENT D, PLANS & TITLES

R. O. W. PLANS

MONTPELIER
MEGC M6400(7)

SHEET 45 OF 335

PROP. AGMT. 5-87

BEGIN R.O.W. PROJECT
MONTPELIER M6400(7)
STA. 11+40 C L

CONSTRUCT RETAINING WALL
11+47 RT. (PARALLEL TO STEPS, EXTEND BACK 7')
11+53 RT ~ 11+85 RT W/ METAL HANDRAIL (EXTEND BACK 5' @ 11+53 RT)
11+98 RT ~ 12+94 RT W/ METAL HANDRAIL (EXTEND UP DRIVE 20')
13+64 RT (EXTEND UP DRIVE 19')
13+06 RT - 13+52 RT W/ METAL HANDRAIL
13+70 RT. - 14+01 RT W/ METAL HANDRAIL

PORTLAND CEMENT CONC SIDEWALK-5'' - 5' WIDE
11+47 RT ~ 17+00 RT
RIVER ST. TRAV. 81+00 ~ 81+67

CONSTRUCT SIDEWALK RAMPS
RIVER STREET

RAMP TYPE	STATION
TYPE I	80+97 ℄
TYPE I	81+60 ℄
TYPE I	81+93 ℄

BERLIN STREET

TYPE I	11+51 RT.

REMOVE & RESET GUARD RAIL
RIVER ST. TRAVERSE
LT
80+77 - 81+02
84+95 - 85+20

CONSTRUCT CONCRETE STAIRWAY W/METAL HANDRAIL
RIGHT
11+48 ~ 11+53
12+25 ~ 12+48
12+77 ~ 12+96
13+11 ~ 13+31
13+64 ~ 13+70

EXCAVATION OF SURFACES AND PAVEMENTS
RIGHT
16+35~17+00 (SIDEWALK)

CONSTRUCT DRIVES

LEFT	RIGHT
16+07 16' WIDE (PAVED)	11+92 12' WIDE (PAVED)
	13+00 12' WIDE (PAVED)
	13+58 12' WIDE (PAVED)
	14+23 12' WIDE (PAVED)
	15+54 12' WIDE (PAVED)

VERTICAL GRANITE CURB

LEFT	RIGHT
12+48 ~ 13+21	11+47 ~ 11+86
13+30 ~ 15+99	11+98 ~ 12+21
16+15 ~ 17+00	12+27 ~ 12+94
	13+06 ~ 13+52
	13+64 ~ 14+17
	14+28 ~ 15+42
	15+64 ~ 17+00

CONSTRUCT TURNING ROADWAY
81+75 RT. RIVER ST. TRAV.

RESET VERTICAL CURB
RIGHT
RIVER ST. TRAV. 81+00 - 81+67

NOTE: REPAIR OR REPLACE WOODEN STEPS @ 14+58 RT AS NECESSARY, COSTS FOR SUCH WORK WILL BE SUBSIDIARY TO ITEM 203.15, COMMON EXCAVATION.

NOTE: LOCATION OF DI. ON PVT. LAND AT APPROX. STA. 13+70 RT. TO BE DERMINED BY RESIDENT ENG. DURING CONST.

CURVE * 1
Δ = 2° 41' 36" LT.
D = 1°30'
R = 3819.72'
T = 89.79'
L = 179.56'
E = 1.06'

DEMOLITION & DISPOSAL OF BLDG.
*1 @ 13+70 LT± ~ 13+90 LT ±
*2 @ 14+13 LT± ~ 14+35 LT±

THE FIELD STONE DISPLACED FROM THE RETAINING WALL DURING CONSTRUCTION OF DRIVE AT 16+07 LT. WILL BE STOCKPILED AT A LOCATION ON THE PROPERTY OWNER'S LAND TO BE DESIGNATED BY THE PROPERTY OWNER AND AS DIRECTED BY THE ENGINEER.

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

TOOLAN, RAYMOND J. & SUSAN J.
ALVAREZ, NARCISO U. & JOSEPHINE
MARCOUX, LUCIEN J. & CECILE F.
ELDRED, STEVEN J. & LOUISE C.
BRULE, RONALD N. & SUE F.
MYERS, BRYAN L. & JUDITH H.
BIRON, GLORIA A.
LAVIN, ANGEL J. & KATHERINE E.
CITY OF MONTPELIER
STEBBINS, BRUCE H. & JEANNETTE T.
KILLION, GAYLY J.
WHEELER, BRADLEY & MARY
FRY, VIRGINIA L.
RITZSIMMONS, MARK A. & SUSAN
PLAGGE, RAYMOND & SUSAN

○ DENOTES REMOVAL

SCALE 0 20 40

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 46 OF 335

R.O.W. PLANS

MATCH LINE TO SHEET 23 OF 43

CONSTRUCT RETAINING WALL (W/HANDRAIL)

LT
18+42 ~ 18+95
19+00 ~ 19+20

CONSTRUCT CONCRETE STAIRWAY W/HANDRAILS 5' WIDE)

LT
18+97.5
19+80 ~ 20+59

VERTICAL GRANITE CURB

LEFT	RIGHT
17+00 ~ 19+22	17+00 ~ 17+49
19+37 ~ 19+40	17+65 ~ 18+51
19+45 ~ 19+92	18+74 ~ 19+24
20+02 ~ 20+09	19+51 ~ 19+91
20+21 ~ 20+62	20+04 ~ 20+93
20+76 ~ 21+00	

CONSTRUCT SIDEWALK RAMP

LEFT	RIGHT
19+42	19+08 (TYPE6)

DEMOLITION & DISPOSAL OF BLDG.
#3 @ 17+25 LT± ~ 18+30 LT±

RECONSTRUCT CONCRETE STEPS W/METAL HAND RAIL
25+14 RT

PORTLAND CEMENT CONCRETE SIDEWALK - 5" - 5'WIDE
17+00 RT. - 19+09 RT.
19+37 LT. - 21+00 LT.

CONSTRUCT APPROACH
19+34 RT. OCTOBER LANE 26' WIDE (PAVED)

EXCAVATION OF SURFACES & PAVEMENTS
RT
17+00 - 17+55 (SIDEWALK)

CONSTRUCT DRIVES

LEFT	RIGHT
19+30 10' WIDE (GRAVEL)	17+57 10' WIDE (PAVED)
19+96 10' WIDE (PAVED)	18+67 10' WIDE (GRAVEL)
20+14 12' WIDE (GRAVEL)	20+00 12' WIDE (PAVED)
20+70 10' WIDE (PAVED)	21+00 10' WIDE (PAVED)

CONSTRUCT WALK (PAVED)
LEFT
18+99 (3' WIDE)

CONSTRUCT WALK (PORTLAND CEMENT CONCRETE)
LEFT
19+82 (4' WIDE)W/HANDRAIL
20+59 (2' WIDE)

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SCALE 0 20 40

◯ DENOTES REMOVAL

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

R.O.W. PLANS

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 47 OF 335

SHEET 22 OF 43 MATCH LINE
SHEET 24 OF 43 MATCH LINE

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

NOTE: PAYMENT FOR ANY NECESSARY REMOVAL OF FIELD STONE AND /OR REPAIR AT THE RETAINING WALL @ 25+13 RT., WILL BE SUBSIDIARY TO ITEM 203.15, COMMON EXCAVATION.

CONSTRUCT CONCRETE STAIRWAY W/ HANDRAIL (4'WIDE)
21+05 LT

CONSTRUCT SIDEWALK RAMP
LEFT
REV 25+54 (TYPE 6)
REV 25+95 (TYPE 6)

RECONSTRUCT CONCRETE STEPS W/METAL HAND RAIL (AS NECESSARY, OR AS DIRECTED BY THE ENGINEER)
25+14 RT.

VERTICAL GRANITE CURB

LEFT	RIGHT
21+00 ~ 21+14	21+06 ~ 22+13
21+29 ~ 21+73	22+25 ~ 23+05
21+93 ~ 22+95	23+22 ~ 24+01
23+15 ~ 23+50	24+19 ~ REV 25+00
23+75 ~ 24+50	REV 25+12 ~ REV 26+42
24+70 ~ REV 25+51	REV 26+57 ~ REV 27+00
REV 25+56 ~ REV 25+61	
REV 25+81 ~ REV 25+92	
REV 25+97 ~ REV 27+00	

CONSTRUCT DRIVE

LEFT	RIGHT
21+20 8' WIDE (GRAVEL)	22+21 12' WIDE (PAVED)
21+85 10' WIDE (PAVED)	23+14 14' WIDE (PAVED)
23+05 18' WIDE (GRAVEL)	24+10 16' WIDE (PAVED)
23+65 10' WIDE (PAVED)	REV 25+05 14' WIDE (PAVED)
24+60 16' WIDE (GRAVEL)	REV 26+50 16' WIDE (PAVED)

CONSTRUCT APPROACH
PHELPS ST. 20' WIDE (PAVED)
STA. REV 25+84.36 LT

PORTLAND CEMENT CONC SIDEWALK-5"X5' WIDE
21+00 LT ~ REV 25+58 LT
PHELPS ST 10+60 RT ~ REV ℄ 27+00 LT

CONSTRUCT WALK (PORTLAND CEMENT CONCRETE)
LEFT
21+05 (3' WIDE)
23+45 (5' WIDE)
REV 26+28 (3' WIDE)

CONSTRUCT WALK (PAVED)
LEFT
REV 25+17 (3' WIDE)
REV 23+45 LT (5' WIDE)
REV 26+28 LT (3' WIDE)

CURVE # 2
Δ = 0°30'10" RT.

REV. CURVE #3
Δ = 5°16'20" RT
D = 2°00'00"
R = 2864.79'
T = 131.90'
L = 263.61'
E = 3.03'

SURV. ℄ POST 25+84.36 = ℄ #2 POT 10+00.00
Δ 103°40'54" LT

SURV. PI 26+86.00 = 26+85.81

REV PI 26+09.82 = 26+09.63

PI 21+25.06

N 59° 37'30" E

S 16° 41' 36" E

EXISTING R.O.W.

PARKER, JAYNE — 19 — 1½ STY. W.F. HOUSE # 184

JOHNSON, BARBARA COTTLE — 20

BOLDUC, MARY L. — 18 — 2 STY. W.F. HOUSE # 195

WALKER, ROBERT I., ET AL & WALKER, MAE A., LIFE ESTATE # 197

21 — 2 STY. W.F. HOUSE

22 — 2 STY. W.F. HOUSE # 199

CLACK, ROBERT G. JOAN E.

23 — 2½ STY. W.F. HOUSE # 188

24 — 2 STY. W.F. HOUSE # 201

MILOSEVICH, PAMELA CAROL

HILL, W. SAMUEL & SHANNON S.

DOWLING, DANIEL P. & ROBIN F. — 25 — 1½ STY. W.F. HOUSE # 190

26 — 2 STY. W.F. HOUSE # 203

PAIN, PHILIPPE C.P. & ELIZABETH C.

SHERIDAN, THOMAS D. — 27 — 2 STY. W.F. HOUSE # 205

CAMPO, ALAN P. & SUSAN S. — 28 — 1½ STY. W.F. HOUSE # 192

HUDSON, DANA V. & DEBRA S. — 29

B.M. # 3 RR SPIKE IN POLE ELEV. 637.24

MATCH LINE SHEET 23 OF 43

MATCH LINE SHEET 25 OF 43

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SCALE 0 20 40

○ DENOTES REMOVAL

SURVEYED BY	MOREAU — DATE 7-85
DRAWN BY	DAYE/REDMOND — DATE 4-88
SQUAD LEADER	SHERIDAN
DESIGN FILE NO.	76B033 — DATE PLOTTED 4-7-88
PROJ. NAME	MONTPELIER
PROJ. NO.	MEGC M6400(7)
R.O.W. SHEET	48 OF 335

R.O.W. PLANS

NOTE: STA. 32+04 LT. ~ 32+62 LT. SCARIFY EXISTING PAVEMENT FOR 4' BEHIND NEW SIDEWALK. AREA TO BE TOPSOILED AND SEEDED AS DIRECTED BY THE ENGINEER.

STONE FILL TYPE I FOR SLOPE STABILIZATION
RT
30+50 ~ 30+80

PORTLAND CEMENT CONC. SIDEWALK - 5'' X 5' WIDE
REV 27+00 LT ~ REV 31+83 LT
REV 32+72 LT ~ REV 33+00 LT

NOTE: Remove & Reset Yard Lamp @ Rev. 28+67 Rt as directed by the Engineer.

CONSTRUCT DRIVES

LEFT		RIGHT	
REV 27+82	16'WIDE (PAVED)	REV 27+68	10'WIDE (GRAVEL)
REV 28+67	10'WIDE (GRAVEL)	REV 28+79	16'WIDE (CONCRETE)
REV 29+54	10'WIDE (GRAVEL)	REV 31+08	10'WIDE (PAVED)
REV 29+64	10'WIDE (PAVED)	REV 31+80	16'WIDE (PAVED)
REV 31+95	14'WIDE (PAVED)		
REV 32+75	24'WIDE (PAVED)		
REV 33+00	8'WIDE (GRAVEL)		

LINDQUIST, VERNON R. & JUDITH A.
CAMPO, ALAN P. & SUSAN S.
MELANSON, DOREEN E.
GRIFFIN, DONALD W. & LOUISE S.
CANO, STEPHEN M. & FLORENCE C.
POTTER, RANDON E. & KATHARINE M.
GIFFIN, SHIRLEY E.
RAMSAY, JOHN W.
HUDSON, DANA V. & DEBRA S.
SHIPPEE, MATTHEW A. & RHONDA L.
HOWARD, GEOFFREY R. & MARGARET S.
WHITE, DONALD R. & MARILYN B.
FERNANDEZ, PHILLIP J., SR. & PAULINE

SURV. PI 30+43.29 = 30+43.24
REV. PI 30+42.81 = 30+42.78
Δ 9°46'48'' RT
W. SURV. POST 30+10.22 = ℄ * 3 POT 15+00.00

REV. 27+00 RT ~ REV 27+95 RT NEW 24" X 94' PCCSP .064 OR CAMP .060
REV 27+95 ℄ NEW 18" X 30' PCCSP .060 OR CAMP .060
REV 27+95 LT ~ REV 28+45 LT NEW 6' X 50' UNDERDRAIN
REV 27+95 RT ~ REV 29+44 RT NEW 24" X 69' PCCSP .064 OR CAMP .060
REV 29+44 RT ~ REV 30+65 RT NEW 24" X 120' PCCSP .064 OR CAMP .060
REV 30+21 LEFT 8" PLASTIC PIPE 2'X2' DI REMOVE EXISTING DI AND 8" PLASTIC PIPE TO BE PLUGGED AND TO REMAIN IN PLACE
REV 30+65 ℄ NEW 18" X 30' PCCSP .064 OR CAMP .060
REV 30+65 LT ~ REV 31+45 LT NEW 6' X 50' UNDERDRAIN
REV 30+65 RT ~ REV 31+50 RT NEW 24" X 84' PCCSP .064 OR CAMP .060
REV. 31+50 RT ~ REV. 32+82 RT NEW 24" X 132' PCCSP .060 OR CAMP .060
32+82 LEFT INLET 6' CONC. BOX REMOVE EXISTING 6" PLASTIC PIPE & 6' CONC. BOX TO REMAIN IN PLACE
OUTLET 6" PLASTIC PIPE 22'X2' DI
REV 32+82 RT ~ REV 33+00 RT NEW 18" X 18' PCCSP .064 OR CAMP .060
REV 27+52 LEFT (2) PIPE 2'X2' DI REMOVE 2'X2' DI PIPE TO REMAIN IN PLACE
REV. PT 27 + 41.53
REV 27+60 RT 27+84 RT 18" RCP FAIR CONDITION (REMOVED)
REV 27+00 RT ~ 31+48 RT NEW 6' X 48' UNDERDRAIN W/FLUSHING BASIN @ 31+48 RT
REV 28+10 RT 18" RCP FAIR CONDITION TO BE PLUGGED AND REMAIN IN PLACE
REV. 29+06.5 RIGHT 18" RCP FAIR CONDITION (REMOVED)
REV. PC 29+14.37
REV. 29+69 RIGHT ~ REV. 30+36 RT 18" ACCUMP. POOR CONDITION (REMOVED)
REV. 29+88 RIGHT 12" VCP FAIR CONDITION (REMOVED)
REV. 29+44 ℄ NEW 86' X 30' PCCSP .064 OR CAMP .060
WILSON ST. 15+50 RT ~ W REV. 29+44 RT NEW 86' X 30' CSP .064 OR CAMP .060 CONNECT EXISTING 24" VCP TO REV @ WILSON ST 15+50 RT
REV. 30+36 RT ~ 30+87 RT EXISTING 3'X8" CONCRETE GUTTER (REMOVE)
REV. 30+82 RIGHT TO REV. 31+17 RIGHT EXISTING 15" RCP & 2-5'W GRANITE HEADWALLS (REMOVE)
REV. 31+50 ℄ NEW 18" X 30' PCCSP .064 OR CAMP .060
REV. 31+17 RT ~ REV. 31+64 RT EXISTING 3' CONC. GUTTER (REMOVE)
REV. 31+64 RIGHT TO REV. 31+85 RIGHT REMOVE EXISTING 6' RCP & 5'X1' GRANITE HEADWALL
REV. 31+50 RT ~ REV. 31+52 RT NEW 6' X 4' CARRIER PIPE UNDERDRAIN
REV. 31+85 RT ~ REV. 32+73 RT EXISTING 3'X30' CONC. GUTTER (REMOVE)
REV. 31+50 RT ~ REV. 32+82 RT NEW 24" X 132' PCCSP .064
REV. 31+52 RT ~ REV. 33+00 RT W/FLUSHING BASIN @ 31+52 RT
REV. 32+82 RT ~ REV. 33+50 RT NEW 18" X 30' PCCSP .064
REV. 32+16 RIGHT TO REV. 32+96.5 RIGHT 15" COMP. FAIR CONDITION AND 2'-5'W STONE HEADWALLS
REMOVE EXISTING 15" COMP. HEADWALLS

EXISTING R.O.W.
S 11°25'16" E
S 08° 51'10" E
S 80° 21'32" W
SHEET 24 OF 43
SHEET 26 OF 43
MATCH LINE
MATCH LINE

NOTE: THE CONTRACTOR WILL EMPLOY ALL REASONABLE MEASURES TO AVOID DAMAGING THE IN DRIVE HEATING UNIT FOR THE DRIVE AT STA. 28+79 RT. SHOULD ANY SUCH DAMAGE OCCUR, THE UNIT WILL BE REPAIRED OR REPLACED IN KIND AT THE DIRECTION OF THE ENGINEER. COSTS FOR MATERIALS AND LABOR FOR THIS WORK SHALL BE SUBSIDIARY TO OTHER ITEMS.

VERTICAL GRANITE CURB

LEFT	RIGHT
REV. 27+00 ~ 27+70	REV. 27+00 ~ 27+66
REV. 27+87 ~ 28+60	REV. 27+76 ~ 28+73
REV. 28+71 ~ 29+47	REV. 28+89 ~ 29+94
REV. 29+69 ~ 31+ 87	REV. 30+23 ~ 31+02
REV. 32+04 ~ 32+61	REV. 31+ 12 ~ 31+ 69
REV. 32+87 ~ 32+92	REV. 31+ 84 ~ 33+00

CONSTRUCT APPROACH
30+10 RT WILSON ST.- 30' WIDE (PAVED)

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

REV. CURVE # 4
Δ = 2°34'06" RT.
D = 1°00'00"
R = 5729.58'
T = 128.44'
L = 256.83'
E = 1.44'

◯ DENOTES REMOVAL

CONSTRUCT WALK (PAVED)
LEFT
REV. 29+40 (4' WIDE) FLAGSTONE
REV. 29+95 (3.5' WIDE)
REV. 31+61 (6' WIDE) FLAGSTONE

0 20 40
SCALE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

R.O.W. PLANS

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 49 OF 335

CONSTRUCT SIDEWALK RAMP
LEFT
REV. 34+42 (TYPE I)
REV. 34+89 (TYPE I)

PORTLAND CEMENT CONC. SIDEWALK - 5"X 5' WIDE
REV. 33+00 LT ~ 34+47 LT
REV. 34+87 LT ~ 39+00 LT

CONSTRUCT WALK (PAVED)
LEFT
REV. 33+29 (3' WIDE)
REV. 33+50 (2' WIDE)
REV. 34+10 (3' WIDE)
REV. 35+34 (3' WIDE)
REV. 36+83 (4' WIDE) FLAGSTONE
REV. 37+65 (2' WIDE)

CONSTRUCT DRIVES

LEFT	RIGHT
REV. 35+60 12'WIDE (PAVED)	REV. 33+64 16'WIDE (PAVED)
REV. 36+40 16'WIDE (PAVED)	REV. 33+93 16'WIDE (PAVED)
REV. 37+23 10'WIDE (GRAVEL)	REV. 35+60 10'WIDE (PAVED)
REV. 38+00 16'WIDE (PAVED)	REV. 36+70 16'WIDE (PAVED)
REV. 38+76 25'WIDE (PAVED)	REV. 37+75 16'WIDE (PAVED)
	REV. 38+60 12'WIDE (PAVED)

CONSTRUCT APPROACH
REV 34+66.20 LT BLODGETT AVE 16' WIDE (PAVED)

MAG 1985

SHEET 25 OF 43

MATCH LINE

SHEET 27 OF 43

MATCH LINE

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

VERTICAL GRANITE CURB

LEFT	RIGHT
REV. 33+01 ~ 34+34	REV. 33+00 ~ 33+55
REV. 34+47 ~ 34+57	REV. 33+71 ~ 33+84
REV. 34+75 ~ 34+85	REV. 34+01 ~ 35+52
REV. 34+92 ~ 35+55	REV. 35+63 ~ 36+64
REV. 35+69 ~ 36+32	REV. 36+79 ~ 37+66
REV. 36+49 ~ 37+16	REV. 37+81 ~ 38+53
REV. 37+26 ~ 37+87	REV. 38+66 ~ 39+00
REV. 38+06 ~ 38+63	
REV. 38+90 ~ 39+00	

○ DENOTES REMOVAL

0 20 40
SCALE

R.O.W. PLANS

SURVEYED BY	MOREAU	DATE	7-85
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SQUAD LEADER	SHERIDAN		
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PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 50 OF 335

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

1" CHERRY AT STA. 40+14 RT.
NOTE: 4" APPLE @ STA. 40+93 LT. AND FLOWERING CRAB @ STA. 40+95 LT. ARE TO BE RESET AT A LOCATION SPECIFIED BY THE ENGINEER.

CONSTRUCT SIDEWALK RAMP
LEFT
REV 40+94 (TYPE 6)
REV 41+78 (TYPE 6)

VERTICAL GRANITE CURB

LEFT	RIGHT
REV 39+00 ~ REV 39+58	REV 39+00 ~ REV 39+45
REV 39+70 ~ REV 40+30	REV 39+56 ~ REV 39+71
REV 40+46 ~ REV 40+92	REV 39+80 ~ REV 40+46
REV 40+97 ~ REV 41+14	REV 40+62 ~ REV 41+67
REV 41+39 ~ REV 41+75	REV 41+76 ~ REV 43+22
REV 41+80 ~ REV 45+00	REV 43+40 ~ REV 44+80
	REV 44+91 ~ REV 45+00

EXCAVATION OF SURFACES AND PAVEMENTS
LT
REV 39+30 - 40+20 (SIDEWALK)
RT
43+90 - 45+00

CONSTRUCT WALK (PAVED)
LEFT
REV 39+20 (2.5' WIDE)(FLAGSTONE)
REV 40+13 (5' WIDE)
REV 41+98 (2' WIDE)

CONSTRUCT APPROACH (WHEELOCK ST.)
REV 41+57.15 LT 26'WIDE (PAVED)

PORTLAND CEMENT CONC SIDEWALK - 5'-5' WIDE
REV 39+00 LT ~ REV 40+98 LT
REV 41+65 LT ~ REV 45+00 LT

CONSTRUCT DRIVES

LEFT	RIGHT
REV 39+66 10'WIDE (PAVED)	REV 39+50 10'WIDE (PAVED)
REV 40+39 12'WIDE (GRAVEL)	REV 39+77.8'WIDE (GRAVEL)
	REV 40+50 16'WIDE (GRAVEL)
	REV 41+75 10'WIDE (PAVED)
	REV 43+30 20'WIDE (PAVED)
	REV 44+90 10'WIDE (PAVED)

REV CURVE # 5
△ = 3°24'07" LT.
D = 1°00'00"
R = 5729.58'
T = 170.15'
L = 340.21'
E = 2.53

SAULT, LUCILLE K., ET AL
MICCOLO, MICHAEL C. & GERTRUDE G.
PECUE, RAYMOND K. & HAZEL L.
CARLSON, ANNA
KELTY, PATRICK W. & LAURIE A.
ANDERSON, PAUL A. & JODY A.
LYONS, ROBERT E. & MARIE ANN
HARLOW, RICHARD H. & IRENE J.
FERRY, RONALD M., JR. & SYLVIA T.
FERNANDEZ, PHILLIP J., JR.
STACKPOLE, LEONA W., LIFE ESTATE

EXISTING R.O.W.
G.M.P. R.O.W.
WHEELOCK STREET
N 47° 47' 56" E
S 08° 51' 10" E
S 12° 15' 17" E
MATCH LINE SHEET 26 OF 43
MATCH LINE SHEET 28 OF 43

NOTE: THE WOOD FROM THE 24" S.M. @ STA 39+13 RT IS TO BE RETAINED BY THE PROPERTY OWNER, AND STACKED AT A LOCATION SPECIFIED BY THE ENGINEER.

NOTE: LILACS AND TREES BEING REMOVED @ STA 39+69 RT, 40+14 RT, 39+97 RT AND 40+30 RT, ARE TO BE REPLACED. REPLACEMENTS TO BE PLANTED AT A LOCATION SPECIFIED BY THE ENGINEER.

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE

R.O.W. PLANS

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 51 OF 335

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

MAG 1985

REMOVING AND RESETTING FENCE
LT
50+35 - 51+00

EXCAVTION OF SURFACES AND PAVEMENTS
LT
45+00 - 45+47

CONSTRUCT DRIVES

LEFT	RIGHT
REV. 45+60 10'WIDE (GRAVEL)	REV. 45+75 10'WIDE (PAVED)
REV. 46+54 12'WIDE (PAVED)	REV. 46+73 12'WIDE (PAVED)
48+68 12'WIDE (PAVED)	REV. 47+60 10'WIDE (PAVED)
49+33 12'WIDE (PAVED)	48+30 12'WIDE (PAVED)
50+53 10'WIDE (PAVED)	49+60 15'WIDE (PAVED)

CONSTRUCT APPROACH
47+64.49 LT VALERIE AVE.- 24' WIDE (PAVED)

CURVE # 6
△ = 11°24'00" LT.
D = 6°00'00"
R = 954.93'
T = 95.31
L = 190.00
E = 4.74

(POSSIBLE SEWER) 8" CLAY PIPE

℄ 32+24.5 RT. UNITED 8" CLAY PIPE 6" UNDERDRAIN OUTLET 8" CLAY PIPE, 1 2'X2' DI

℄ 31+20 RT. 6" UNDERDRAIN L5 NL5' DI

50+58 LT. SEWERLINE F.S. 8" PPCP & 8"PCP OUTLET 12"PCP RETAIN ADJUST ELEV. OF M.H.

50+69 LT. 12"CIP W/#SD VALVE, 9'X7' CONC. BOX RETAIN

50+78 LT. 12"CIP W/#SD VALVE, 9'X7' CONC. BOX RETAIN ADJUST ELEV. OF M.H.

1 STY. W.F. HOUSE

CONC. STEPS

3' PAVED WALK

6" M.

12" M.

WOODEN STEPS

22

1 STY. W.F. HOUSE

GARAGE

PAVED DRIVE

32+00 N 70°08'01" E

VALERIE AVENUE

31'00

6" ASPHALT CURB

10" B.SPR.

2" BUSH

EXISTING R.O.W.

4" M.

TATUM, DON C. & SHARON P.

P L

4' APP.

6' APP.

48+05 ℄ NEW 18" X 30' PCCSP .064 OR CAAP .060

48+05 LT - 48+50 LT NEW 6" X 45' UNDERDRAIN

49+45 RT - 49+45 RT. NEW 18" X 160' PCCSP .064 OR CAAP .060

49+48.5 LT. 12" CMP & 2'X2' DI (REMOVE)

49+45 LT - 51+00 LT. PCCSP .064

GIBSON, ROBERT H. & KATHRYN F.

CAR PORT

1½STY. W.F. HOUSE

#272

BM # 7
□ IN BLDR.
ELEV. 808.64'

BATCHELDER ADAMS, GREG P. & LAURIE A.

GARAGE

14" WATER

WSO

PAVED DRIVE

CITY OF MONTPELIER

66B

50+91 17' LT. SR(T)

66A

50+23 25' LT.

SR(T)

4" P.

DRIVE (T)

44'

CARLSON, ANNA

60

1½STY. W.F. HOUSE

266

REV 45+00 LT - REV 45+50 LT NEW 6" X 50' UNDERDRAIN

REV 45+00 LT - REV 45+70 LT. NEW 24" X 170' PCCSP .060 OR CAAP .060

45+86 LT EXISTING 2'X2' DI-12" CMP REMOVE EXISTING DI & 12" CMP

REV PT 46+81.97 = SURV 46+81.47 E0 = +0.50'

LADD, ANNA

1 STY. W.F. HOUSE

268

REMOVE & RESET (T)

BRICK STEPS

REV 45+00 ℄ APPROX.) NEW 6" X 60' HIGH PLASTIC PIPE FOR WATER LINE SLEEVE

REV 46+05 LT - 46+05 LT. NEW 18" X 36' PCCSP .060 OR CAAP .060

47+39 25' LT.

61

47+90 25' LT

℄ 32+25 RT. (SAVE)

SR(T)

RESET

94'

8" SPR. (SAVE)

2" SPR.

12" SPR.

5' LILAC

6' GRAN. MKR.

DRIVE (T)

INSTALL (SAVE)(T) 2' LILACS 3' LILACS

SR(T)

IRON PIN

8" VCP

10" WATER LINE

47+39 23' LT.

47+89 22' LT. 48+00

S 23° 39' 17" E

REV 46+64 25' LT.

47+00

46+00

EXISTING R.O.W.

S 12° 15' 17" E

6" ASPHALT CURB

10' HEDGE

NET 0 53 53

CMP 35

30" M.

SR(T)

INSTALL (T)

BM #6 N-E COR. OF CONC. STEPS ELEV. 785.73

BRICK STOOP

257

FRANZI, OLIVE R.

1 STY. W.F. HOUSE

FERNANDEZ, PHILLIP J., JR. STACKPOLE, LEONA W. LIFE EST.

REV 45+00 RT - REV 45+82.5 RT 6" CMP 2'X2' DI (REMOVE)

REV 45+82 RT. TO 47+79 RT. EXISTING 12" X 36' CMP AND 2'X2' DI (REMOVE)

REV PI 45+87.28 = 45+86.66

62

BRICK STEPS

261

BRICK STOOP

259

MACDOUGAL, ALAN B.

1 STY. W.F. HOUSE

GARAGE

GREENWOOD, RAY B. & MARTHA H.

1 STY. W.F. HOUSE

2-10" B.

OSWO

REV 45+00 RT - 46+95 RT. NEW 6" X 195' UNDERDRAIN W/FLUSHING BASIN @ 46+95 RT

REV 46+70 LT - 47+83 RT. NEW 18" X 34' PCCSP .060 OR CAAP .060

45+83 RT - 47+00 RT. NEW 6" X 16' UNDERDRAIN CARRIER PIPE

45+83 RT. TO 50+95 RT. EXISTING 15" X 315' CMP & 12" ABS & 2'X2' DI (REMOVE)

48+05 RT - 48+45 RT. NEW 18" X 40' CSP .064

45+50 - 49+00 2'-STONE RETAINING WALL REMOVE PORTION IN CITY ROW (SEE SPECIAL PROVISIONS)

49+45 ℄ NEW 18" X 30' PCCSP .060 OR CAAP .060

SURV. M POT 47+64.49= ℄ #6 POT 30+00.00 △ = 86° 12' 42" LT

FERRY, RONALD M., JR. & SYLVIA T.

COLOMBO, HARRY L., M.D. & RUTH E.

64

48+84 25' LT

1½STY. W.F. HOUSE

270

DRIVE (T)

GRAVEL TURNAROUND

SR (T)

RESET 139'

63

1 STY. W.F. HOUSE

24

GARAGE

DRIVE (T)

PAVED DRIVE

SR(T) S/R (T)

FLOWER BED

7' LILAC

RESET

140'

50+00 EXISTING R.O.W.

50+25 19' LT.

50+67 25' LT.

50+71 18' LT.

50+86 25' LT.

ASPHALT CURB

6" PRESSURE RELIEF VALVE LINES

RELIEF VALVE MH

CEDAR

WSO

49+00

6" ASPHALT CURB

48+84 18' LT.

SR(T)

SR (P)

WOODS

5' SPR. HEDGE

PAVED PKING.

4" SPR.

56 GMP 35

66K

DRIVE RT. (T)

10" APP.

2' STONE RET. WALL

65

1½STY. BRICK HOUSE

#265

49+25 RT - 49.46 RT. REMOVE STONE RETAINING WALL

47+00 RT - 51+00 RT NEW 6' X 400' UNDERDRAIN W/FLUSHING BASIN @ 51+05 RT

DANIELS, JAMES E. & DONNA C.

69

PC 50+87.85

(SAVE) 18" BL. CHER.

MATCH LINE SHEET 27 OF 43

MATCH LINE SHEET 29 OF 43

STONE FILL, TYPE II FOR SLOPE STABILIZATION
49+28 RT ~ 49+65 RT

R.O.W. PLANS

NOTE: THE STONE WALL LOCATED BETWEEN STA. 48+45 RT. AND STA. 49+45 RT. WHICH WILL BE REMOVED DURING THE CONSTRUCTION PERIOD IS TO BE RESET AS FOLLOWS. THE SECTION PRESENTLY LOCATED BETWEEN STA. 49+27 RT. AND 49+45 RT. WILL BE RELOCATED AT APPROXIMATELY THE SAME STATIONS ON THE WESTERLY EDGE OF THE NEW DRIVE AT 49+60. THE SECTION PRESENTLY LOCATED BETWEEN STA. 48+45 RT. AND 49+00 RT.± WILL BE RELOCATED WESTERLY OF THE CONSTRUCTION LIMITS, BETWEEN THE SAME STATIONS.

VERTICAL GRANITE CURB

LEFT	RIGHT
REV 45+00 ~ REV 45+47	REV 45+00 ~ REV 45+64
REV 45+62 ~ REV 46+42	REV 45+75 ~ REV 46+63
REV 46+65 ~ 47+40	REV 46+75 ~ 47+53
47+45 ~ 47+55	47+66 ~ 48+20
47+78 ~ 47+93	48+48 ~ 48+52
47+98 ~ 48+60	49+70 ~ 51+00
48+72 ~ 49+21	
49+36 ~ 50+47	
50+58 ~ 51+00	

CONSTRUCT SIDEWALK RAMP
LEFT
47+42 (TYPE 6)
47+95 (TYPE 6)

PORTLAND CEMENT CONC. SIDEWALK - 5'-5' WIDE
REV 45+00 LT ~ 47+45 LT - 5' WIDE
47+91 LT ~ 51+00 LT - 4' WIDE

NOTE: WALK @ 47+55 RT WILL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET THE ELEVATION OF THE NEW DRIVEWAY.

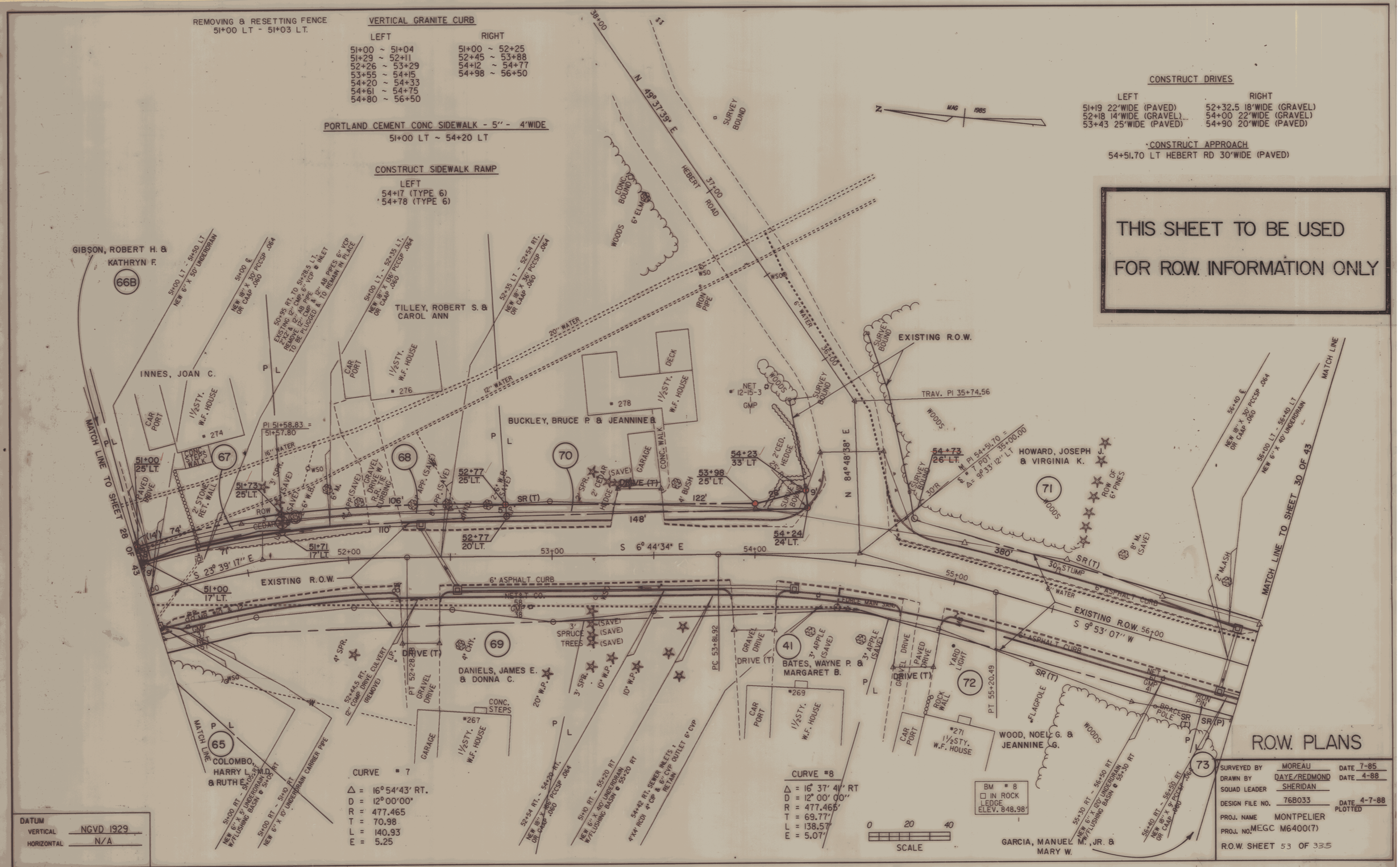
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

○ DENOTES REMOVAL

0 20
SCALE

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88

MONTPELIER
PROJ. MEGCM 6400(7)
R.O.W. SHEET 52 OF 335


REMOVING & RESETTING FENCE
51+00 LT - 51+03 LT.
VERTICAL GRANITE CURB
LEFT
51+00 ~ 51+04
51+29 ~ 52+11
52+26 ~ 53+29
53+55 ~ 54+15
54+20 ~ 54+33
54+61 ~ 54+75
54+80 ~ 56+50
RIGHT
51+00 ~ 52+25
52+45 ~ 53+88
54+12 ~ 54+77
54+98 ~ 56+50
PORTLAND CEMENT CONC SIDEWALK - 5" - 4'WIDE
51+00 LT ~ 54+20 LT
CONSTRUCT SIDEWALK RAMP
LEFT
54+17 (TYPE 6)
54+78 (TYPE 6)
CONSTRUCT DRIVES
LEFT
51+19 22'WIDE (PAVED)
52+18 14'WIDE (GRAVEL)
53+43 25'WIDE (PAVED)
RIGHT
52+32.5 18'WIDE (GRAVEL)
54+00 22'WIDE (GRAVEL)
54+90 20'WIDE (PAVED)
CONSTRUCT APPROACH
54+51.70 LT HEBERT RD 30'WIDE (PAVED)
THIS SHEET TO BE USED
FOR R.O.W. INFORMATION ONLY
GIBSON, ROBERT H. & KATHRYN F.
66B
INNES, JOAN C.
TILLEY, ROBERT S. & CAROL ANN
BUCKLEY, BRUCE P. & JEANNINE B.
HOWARD, JOSEPH J. & VIRGINIA K.
DANIELS, JAMES E. & DONNA C.
BATES, WAYNE P. & MARGARET B.
WOOD, NOEL G. & JEANNINE G.
COLOMBO, HARRY L. M.D. & RUTH E.
GARCIA, MANUEL M., JR. & MARY W.
MATCH LINE TO SHEET 28 OF 43
MATCH LINE TO SHEET 30 OF 43
N 49° 37' 39" E
HEBERT ROAD
S 6° 44' 34" E
S 23° 39' 17" E
S 9° 53' 07" W
N 84° 48' 38" E
EXISTING R.O.W.
6' ASPHALT CURB
TRAV. PI 35+74.56
CURVE # 7
Δ = 16° 54' 43" RT.
D = 12° 00' 00"
R = 477.465
T = 70.98
L = 140.93
E = 5.25
CURVE #8
Δ = 16° 37' 41" RT
D = 12° 00' 00"
R = 477.465'
T = 69.77'
L = 138.57'
E = 5.07'
BM # 8
IN ROCK LEDGE
ELEV. 848.98'
SCALE
0 20 40
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A
R.O.W. PLANS
SURVEYED BY MOREAU DATE 7-85
DRAWN BY DAYE/REDMOND DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. 76B033 DATE 4-7-88 PLOTTED
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M6400(7)
R.O.W. SHEET 53 OF 335

THIS SHEET TO BE USED
FOR R.O.W. INFORMATION ONLY

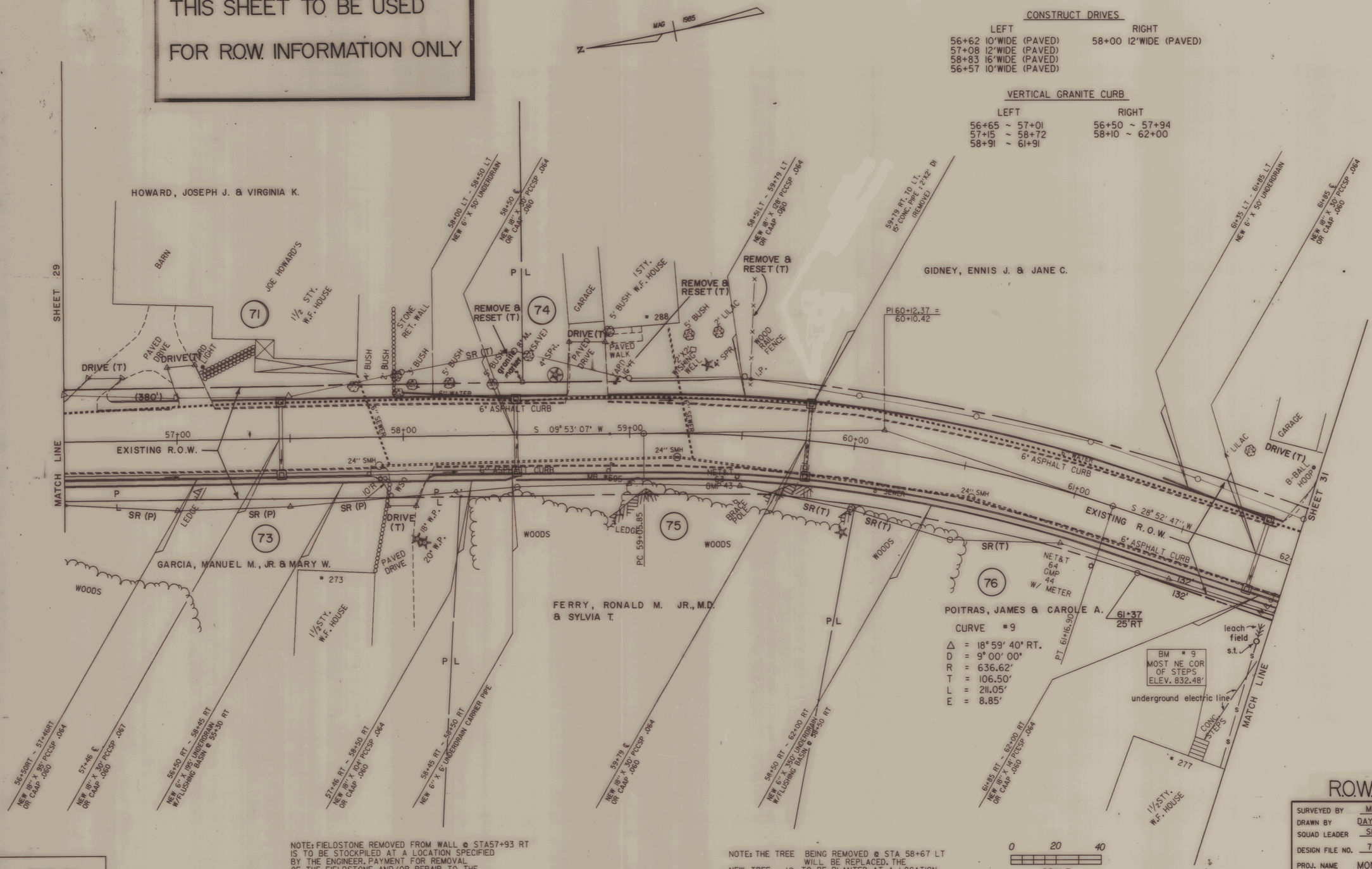
MAG 1985

CONSTRUCT DRIVES

LEFT	RIGHT
56+62 10'WIDE (PAVED)	58+00 12'WIDE (PAVED)
57+08 12'WIDE (PAVED)	
58+83 16'WIDE (PAVED)	
56+57 10'WIDE (PAVED)	

VERTICAL GRANITE CURB

LEFT	RIGHT
56+65 ~ 57+01	56+50 ~ 57+94
57+15 ~ 58+72	58+10 ~ 62+00
58+91 ~ 61+91	


HOWARD, JOSEPH J. & VIRGINIA K.
BARN
JOE HOWARD'S
1½ STY. W.F. HOUSE
71
SHEET 29
PAVED DRIVE
DRIVE (T)
DRIVE (T)
(380')
YARD LIGHT
4" BUSH
2" BUSH
STONE RET. WALL
5" BUSH
SR (T)
58+00 LT ~ 58+50 LT NEW 6' X 50' UNDERDRAIN
58+50 ℄ NEW 18" X 70' PCCSP .064 OR CAAP .060
P L
74
REMOVE & RESET (T)
REMOVE & RESET (T)
GARAGE
1 STY. 5' BUSH W.F. HOUSE
288
DRIVE (T)
PAVED WALK
4" SPR.
PAVED DRIVE
5' BUSH
2" LILAC
2"X2" MSHNG WELL
4" SPR.
WOOD RAIL FENCE
I.P.
58+51 LT ~ 59+79 LT NEW 18" X 128' PCCSP .064 OR CAAP .060
59+19 RT. TO L.T. 15" CONC. PIPE, 2-2'X2' DI (REMOVE)
GIDNEY, ENNIS J. & JANE C.
PI 60+12.37 = 60+10.42
6" WATER
6" ASPHALT CURB
SEWER
57+00
58+00
S 09° 53' 07" W
59+00
60+00
EXISTING R.O.W.
MATCH LINE
24" SMH
6" ASPHALT CURB
61+00
S 28° 52' 47" W
EXISTING R. O. W.
6" ASPHALT CURB
61+35 LT ~ 61+85 LT NEW 6' X 50' UNDERDRAIN
61+85 ℄ NEW 18" X 70' PCCSP .064 OR CAAP .060
L.P.
L.P.
L.P.

THIS SHEET TO BE USED FOR R.O.W. INFORMATION ONLY

CONSTRUCT SIDEWALK RAMP
LEFT
64+48 (TYPE 6)

VERTICAL GRANITE CURB

LEFT	RIGHT
62+04 ~ 62+44	62+00 ~ 62+11
62+57 ~ 64+16	62+31 ~ 63+33
REV 64+35 ~ REV 64+45	REV 63+45 ~ REV 63+66
REV 64+50 ~ REV 64+57	REV 63+86 ~ REV 64+92
REV 64+82 ~ REV 66+29	REV 65+04 ~ REV 66+38
REV 66+47 ~ REV 67+55	REV 66+84 ~ REV 67+60

CONSTRUCT DRIVES

LEFT	RIGHT
62+00 12'WIDE (PAVED)	62+19 20'WIDE (PAVED)
62+50 10'WIDE (PAVED)	63+39 12'WIDE (GRAVEL)
REV 64+27 16'WIDE (PAVED)	REV 63+80 16'WIDE (GRAVEL)
REV 66+37 16'WIDE (GRAVEL)	REV 65+00 24'WIDE (PAVED)
REV 67+70 32'WIDE (GRAVEL)	REV 66+60 24'WIDE (PAVED)

CONSTRUCT APPROACH
REV 64+80.85 LT SHERWOOD DR. 28' WIDE (PAVED)

CONSTRUCT WALK (PAVED)
LEFT
REV 63+90 (3' WIDE)

M POST 64+80.85 =
℄ #8 POT 40+00.00
Δ = 97° 33' 17" LT

REV 67+58.70
END PROJECT | BEGIN APPROACH

66+38 EQUALS ± BEGIN

EXISTING R.O.W.

SHERWOOD DRIVE

BURNHAM, HAZEL C. (78)

GIDNEY, ENNIS J. & JANE C. (74)

COMMO, LYNN L. & DONALD P. (81)

MORSE, BRENT K. & SUSAN L. (83)

KELLEY, NORMAN P & VIRGINIA C. (84)

COLF, BARBARA H. (79)

BARAW, SONJA J. (77)

POITRAS, JAMES & CAROLE A. (76)

CAREY, THOMAS E. & CAROL M. (80)

JARRY, CLARENCE F. & YVONNE R. (82)

CURVE # 10
Δ = 30° 05' 50" RT.
D = 12° 00' 00"
R = 477.456'
T = 128.37'
L = 250.81'
E = 16.96'

REV CURVE # 10
Δ = 28° 48' 34" RT.
D = 12° 18' 00"
R = 465.82'
T = 119.64'
L = 234.22'
E = 15.12'

BM # 10
RR SPIKE
IN 36" M.
ELEV. 825.99'

approx. loc. spring

approx. loc. buried fuel tank

MATCH LINE SHEET 30 OF 43

MATCH LINE SHEET 32 OF 43

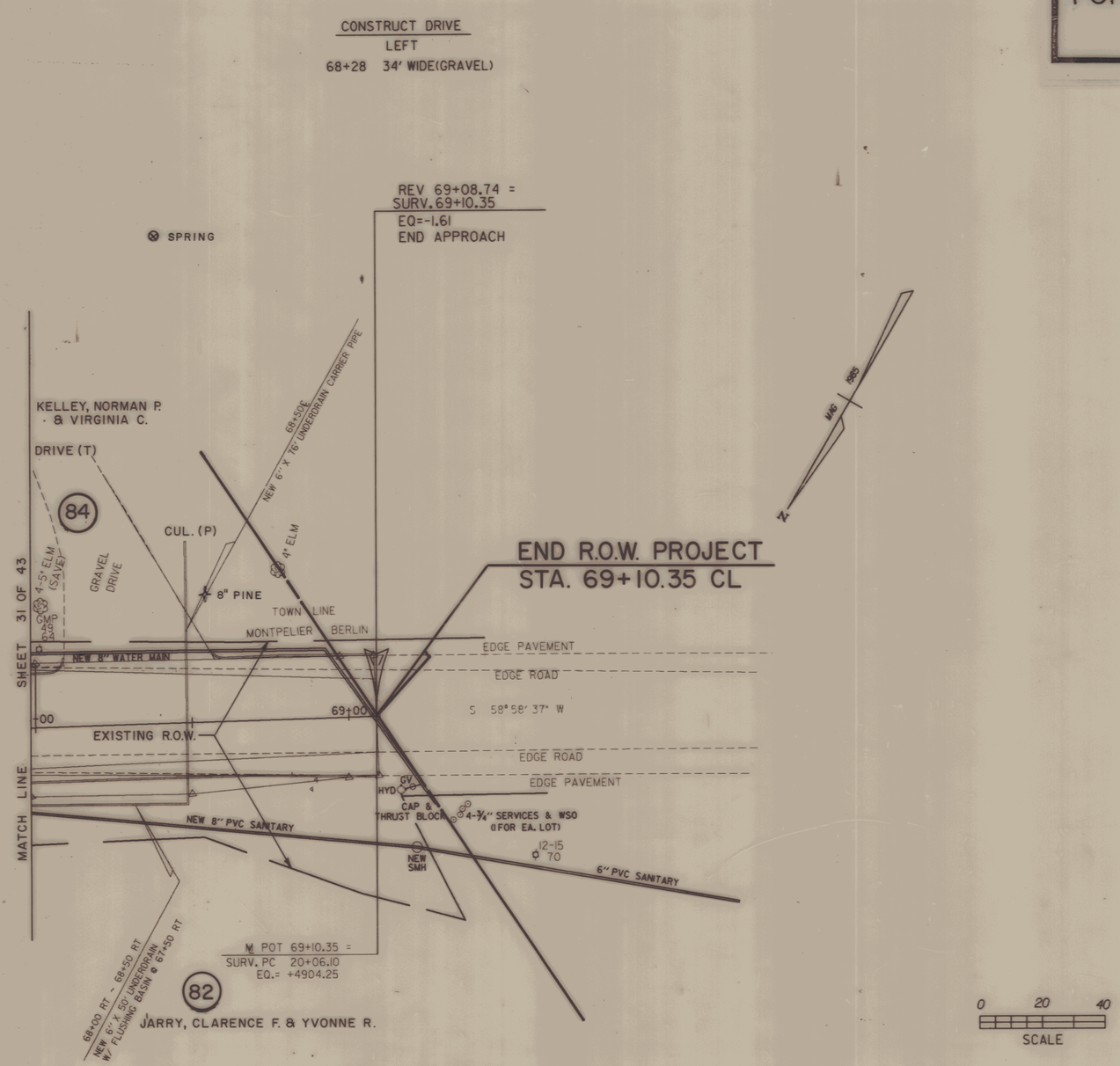
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

R.O.W. PLANS 15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

R.O.W. SHEET 55 OF 335

THIS SHEET TO BE USED
FOR R.O.W. INFORMATION ONLY



0 20 40
SCALE

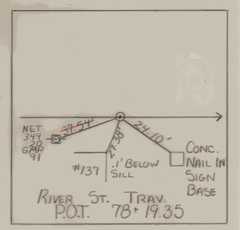
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

R.O.W. PLANS

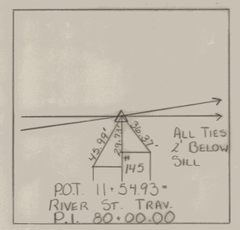
15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

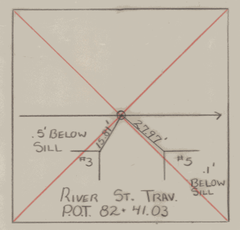
R.O.W. SHEET 56 OF 335



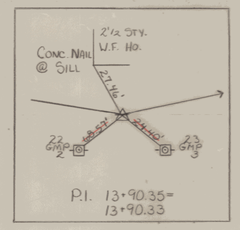
RIVER ST. TRAV.
P.O.T. 78+19.35



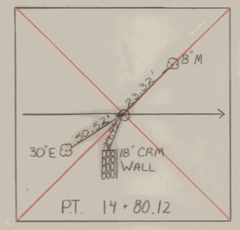
P.O.T. 11+54.93=
RIVER ST. TRAV.
P.I. 80+00.00



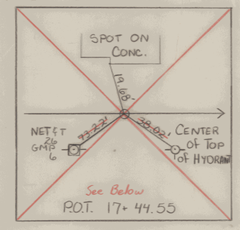
RIVER ST. TRAV.
P.O.T. 82+41.03



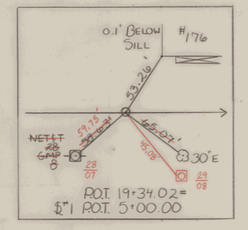
P.I. 13+90.35=
13+90.33



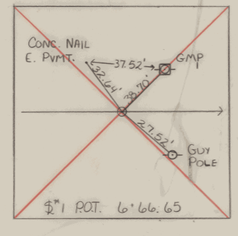
P.T. 14+80.12



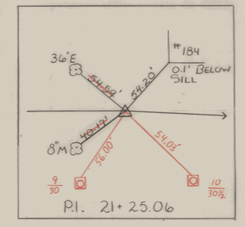
P.O.T. 17+44.55



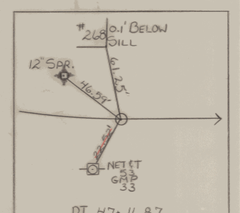
P.O.T. 19+34.02=
$"1 P.O.T. 5+00.00



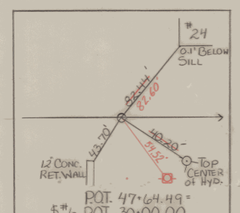
$"1 P.O.T. 6+66.65



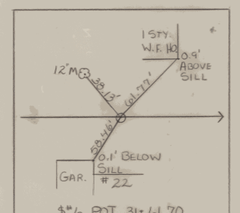
P.I. 21+25.06



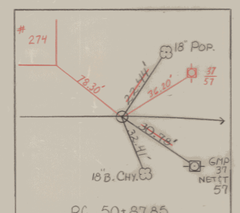
POST. 25+84.36=
$"2 P.O.T. 10+00.00



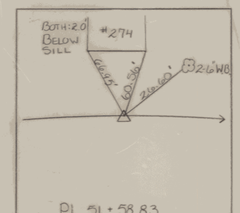
$"2 P.O.T. 12+07.86



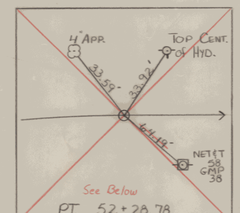
P.I. 26+86.00=
26+85.81



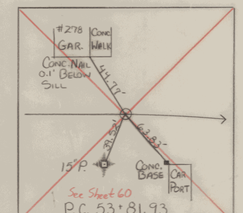
P.T. 28+17.71



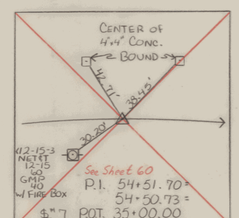
P.C. 29+14.85



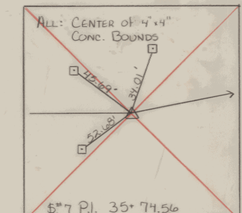
POST. 30+10.22=
$"3 P.O.T. 15+00.00



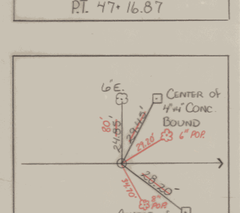
$"3 P.O.T. 16+99.34



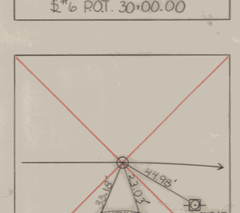
P.I. 30+43.29=
30+43.24



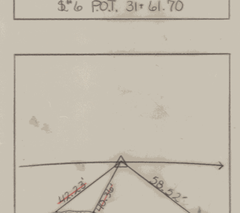
P.T. 31+71.68



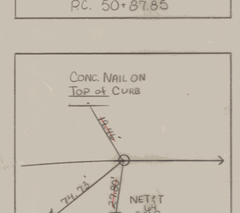
P.O.T. 34+66.20=
$"4 P.O.T. 20+00.00



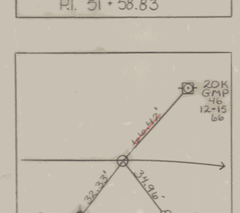
$"4 P.O.T. 22+07.11



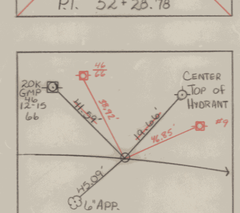
P.C. 38+03.45



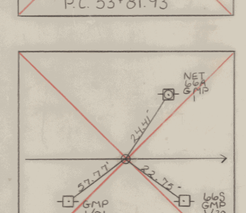
P.I. 39+73.60=
39+73.49



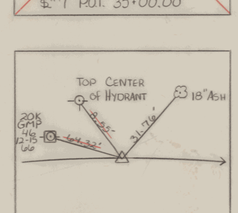
P.T. 41+43.64



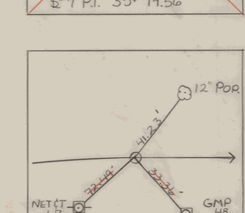
P.O.T. 41+57.15=
$"5 P.O.T. 25+00.00



$"5 P.O.T. 26+77.01



P.C. 45+26.87



P.I. 46+22.18=
46+21.56

P.T. 47+16.87

P.O.T. 47+64.49=
$"6 P.O.T. 30+00.00

$"6 P.O.T. 31+61.70

P.C. 50+87.85

P.I. 51+58.83

P.T. 52+28.78

P.C. 53+81.93

P.I. 54+51.70=
54+50.73=

$"7 P.I. 35+74.56

$"7 P.O.T. 37+12.84

P.C. 59+05.87

P.I. 60+12.37=
60+10.42

P.T. 61+16.92

P.C. 63+76.19

POST. 64+80.85
$"8 P.O.T. 40+00.00

$"8 P.O.T. 41+55.22

P.I. 65+04.56=
64+98.63

P.T. 66+27.00

P.C. 59+05.85

P.O.T. 69+10.35=
Sorv. P.C. 20+06.1 =
+EQ. 4904.25'

RIVER ST. TRAV.
P.O.T. 85+07.29

PT 61+16.90

P.O.T. 85+07.29

P.C. 13+00.56

P.O.T. 17+44.55

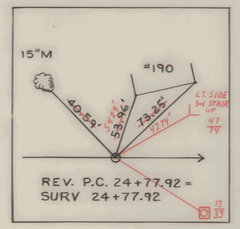
P.T. 52+28.78

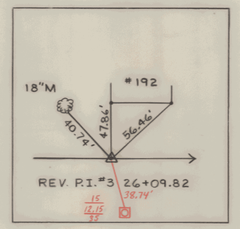
SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	MURDOCK	DATE	7-85
TRACED BY	MURDOCK	DATE	8-85

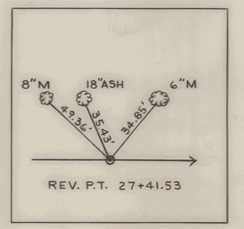
PROJ. MEGCM NO. 6400(7)

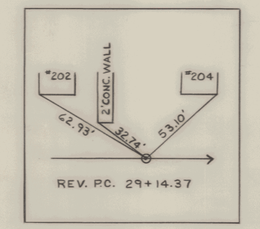
SHEET 59 OF 335

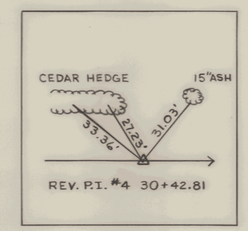
BRUNING 53439.3

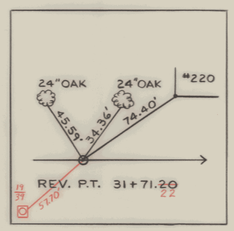


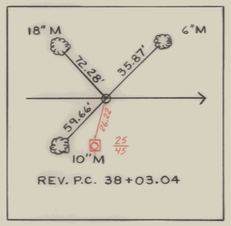


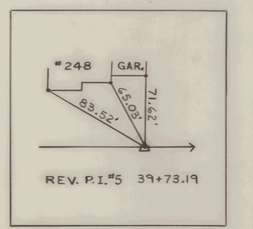


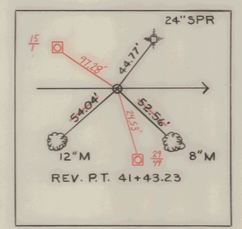


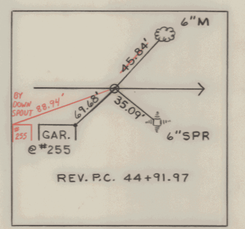


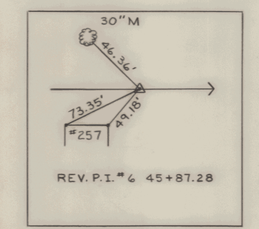


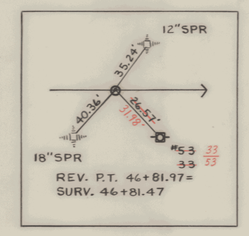


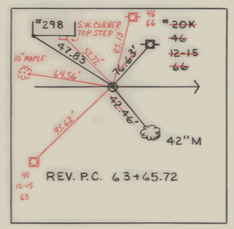


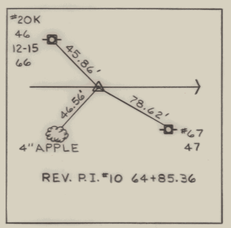


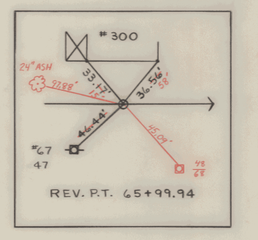


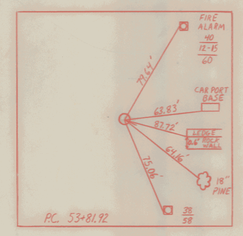


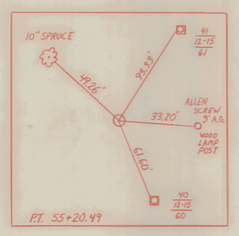


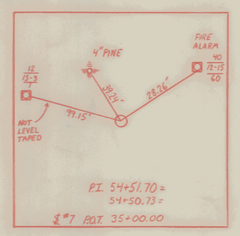












DATUM
VERTICAL N/A
HORIZONTAL N/A

SURVEYED BY GILMAN DATE 7/89
DRAWN BY NUTTER DATE 12/90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. _____ DATE PLOTTED
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M6400(7)
SHEET 60 OF 335 SHEETS

CONSTRUCT RETAINING WALL ✓

11+47 RT (PARALLEL TO STEPS, EXTEND BACK 7') ✓
11+53 RT ~ 11+85 RT W/ METAL HANDRAIL (EXTEND BACK 5' @ 11+53 RT) ✓
~~11+98 RT ~ 12+94~~ RT W/ METAL HANDRAIL (EXTEND UP DRIVE 20') 11+96.5~12+95.5RT
13+06 RT ~ 13+52 RT W/ METAL HANDRAIL (EXTEND UP DRIVE 22') 13+04.5~13+52RT
~~13+64 RT~~ (EXTEND UP DRIVE 19') 13+66.5 RT
13+70 RT ~ 14+01RT W/ METAL HANDRAIL ✓

PORTLAND CEMENT CONC SIDEWALK-5" ✓

~~18+32.5~11+52.5RT~~ ~~11+00 RT ~ 17+00 RT (5' WIDE)~~ (5.25' W)
RIVER ST. TRAV. 80+90 ~ 81+63 (4' WIDE) ✓
14+11RT~17+00 RT (5,' W) 81+91 ~ ~~82+01~~ (4'WIDE) 82+00
83+83 RT~83+87 RT (4.' W)
84+85 RT~85+30 RT (4.' W) 14+58 RT (5' WIDE PVT. WALK) ✓

CONSTRUCT SIDEWALK RAMPS

RIVER STREET

RAMP TYPE	STATION
TYPE 6	80+90 ℄ ✓
TYPE 1	81+63 ℄ ✓
TYPE 1	81+93 ℄ ✓

BERLIN STREET

TYPE 6	11+50 RT ✓
TYPE 6	12+25 RT ✓

REMOVE & RESET GUARD RAIL ✓

RIVER ST. TRAVERSE
LT
80+77 ~ 81+02 ✓
84+95 ~ 85+20 ✓

CONSTRUCT CONCRETE STAIRWAY W/METAL HANDRAIL ✓

RIGHT
11+50 ✓
12+25 ~ 12+48 ✓
12+77 ~ 12+96 ✓
13+11 ~ 13+31 ✓
13+64 ~ 13+70 ✓

EXCAVATION OF SURFACES AND PAVEMENTS ✓

RIGHT
16+35~17+00 (SIDEWALK) ✓

CONSTRUCT DRIVES

LEFT	RIGHT
16+07 17' WIDE (PAVED) ✓	11+92 12' WIDE (PAVED) ✓
~~17+00 24' WIDE (GRAVEL)~~	13+00 12' WIDE (PAVED) ✓
REMOVED AT CITY'S REQUST	13+58 12' WIDE (PAVED) ✓
	14+23 12' WIDE (PAVED) ✓
	15+54 12' WIDE (PAVED) ✓

VERTICAL GRANITE CURB

LEFT	RIGHT
12+35 ~ 13+20 (ISLAND)	~~11+51 ~ 11+81~~
~~12+41 ~ 13+23 (ISLAND)~~	~~11+97 ~ 12+21~~
~~13+29 ~ 15+98~~	~~12+27 ~ 12+89~~
~~16+15 ~ 16+88~~	~~13+11 ~ 13+47~~
13+40 ~ 17+00	~~13+69 ~ 14+12~~
	~~14+34 ~ 15+43~~
	~~15+65 ~ 17+00~~
	8+32 ~ 17+00
	84+89 ~ 85+30

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES

✓CONSTRUCT APPROACH

RIVER ST. TRAV. 81+75 RT (TURNING LANE)
RIVER ST. TRAV. 79+55 ~ 80+50 LT (GRANITE ST. APPR.)
RIVER ST. TRAV. 80+00 ~ 86+10 LT (RIVER ST. APPR.)
BERLIN ST. 8+90 ~ 11+54.93 (BERLIN ST. APPR.)

NEW CURB USED

~~REMOVE AND RESET CURB~~
~~RIVER ST. TRAV. 81+00 ~ 81+67 RT~~
~~81+93 ~ 82+01 RT~~
~~BERLIN STREET 11+85 RT~~

CONSTRUCT WOODEN STEPS W/HANDRAILS ✓

14+58 RT (4' WIDE) ✓
(PAYMENT WILL BE NON-STRUCTURAL LUMBER- TREATED)
16+50 RT (HOUSE #167)

SODDING

11+47 ~~11+43~~ RT ~ 11+85 RT
~~11+97 RT ~ 12+80 RT~~
~~13+06 RT ~ 13+52 RT~~
~~13+64 RT ~ 13+85 RT~~
~~11+98 RT ~ 12+94 RT~~

NOTE: GRADE OF THE PAVED WALK @ 15+80 LT ~ 16+00 LT IS TO BE REDUCED BY THE USE OF A 2'-3"X 1'-2"X 3'-0" CONCRETE SLAB AS SHOWN ON X-SECTION SHEET 155

✓COLD PLANING BITUMINOUS PAVEMENT

BERLIN ST. 8+90 ~ 11+55 (BERLIN ST. APPR.) ✓
RIVER ST. TRAV. 79+55 ~ 80+50 LT (GRANITE ST. APPR.) ✓
RIVER ST. TRAV. 80+00 ~ 86+10 LT (RIVER ST. APPR.) ✓

✓11+54.93 BEGIN PROJECT

P.O.T. 11+54.93 = ✓ RIVER ST. TRAV. P.I. 80+00.00

BM = 1 ✓ ▯ ON SE ABUT. OF BRIDGE ELEV. = 535.78

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

CURVE # 1 ✓
Δ = 2° 41' 36" LT.
D = 1° 30'
R = 3819.72'
T = 89.79'
L = 179.56'
E = 1.06'
DO NOT BANK

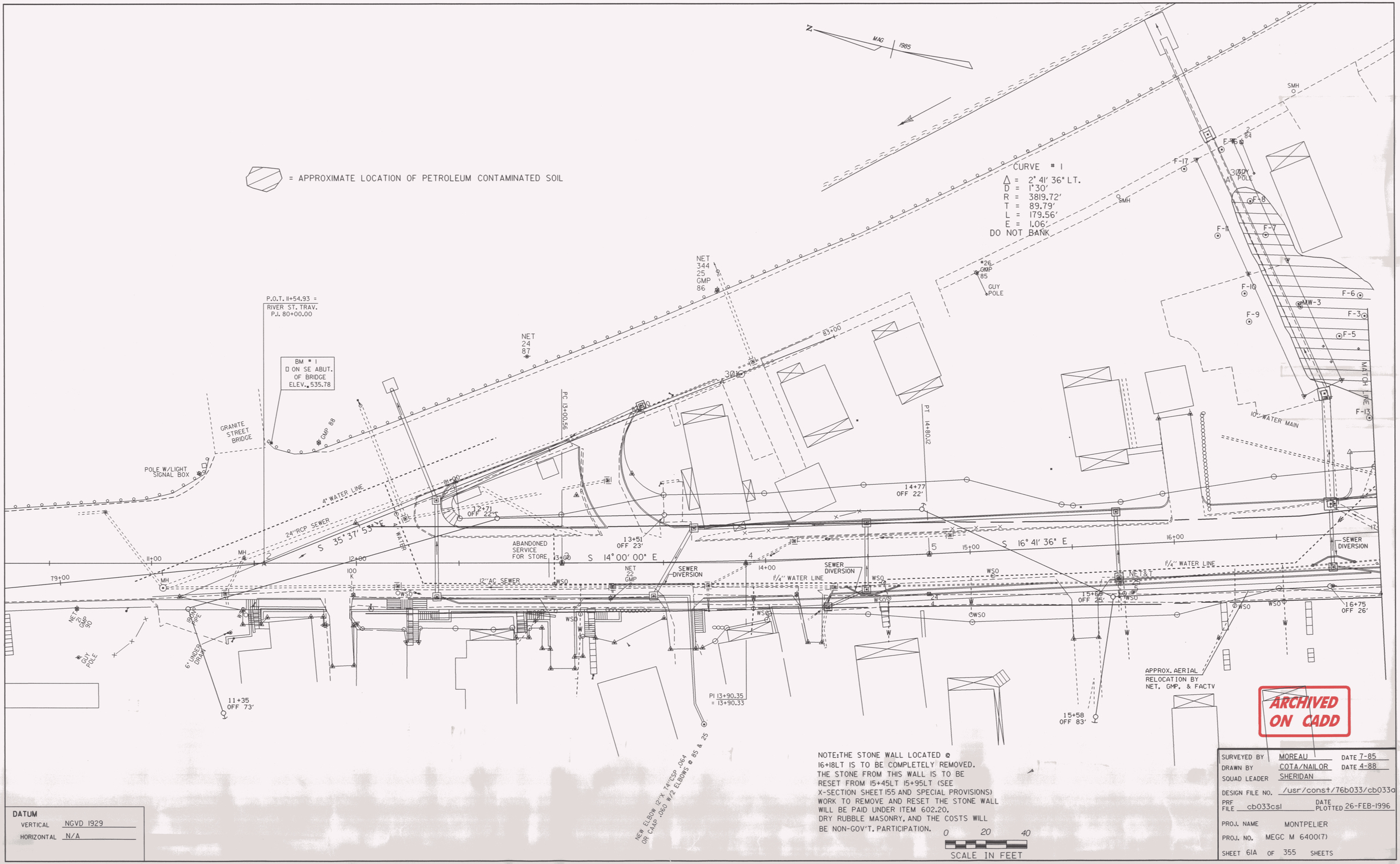
NOTE: THE STONE WALL LOCATED @ 16+18LT IS TO BE COMPLETELY REMOVED. THE STONE FROM THIS WALL IS TO BE RESET FROM 15+45LT 15+95LT (SEE X-SECTION SHEET 155 AND SPECIAL PROVISIONS) WORK TO REMOVE AND RESET THE STONE WALL WILL BE PAID UNDER ITEM 602.20, DRY RUBBLE MASONRY, AND THE COSTS WILL BE NON-GOV'T. PARTICIPATION.

0 20 40
SCALE IN FEET

ARCHIVED ON CADD

○ DENOTES REMOVAL GOV'T. PARTICIPATION

SURVEYED BY	MOREAU DATE 7-85
DRAWN BY	COTA/NAILOR DATE 4-88
SQUAD LEADER	SHERIDAN
DESIGN FILE NO.	ZG01[50,116]PETED.DGN;1
IPARM FILE	PETED1.PRF DATE PLOTTED 9-FEB-1996
PROJ. NAME	MONTPELIER
PROJ. NO.	MEGC M 6400(7)
SHEET	61 OF 355 SHEETS



NOTE: THE STONE WALL LOCATED @ 16+18LT IS TO BE COMPLETELY REMOVED. THE STONE FROM THIS WALL IS TO BE RESET FROM 15+45LT 15+95LT (SEE X-SECTION SHEET 155 AND SPECIAL PROVISIONS) WORK TO REMOVE AND RESET THE STONE WALL WILL BE PAID UNDER ITEM 602.20, DRY RUBBLE MASONRY, AND THE COSTS WILL BE NON-GOV'T. PARTICIPATION.

0 20 40
SCALE IN FEET

DATUM

VERTICAL NGVD 1929

HORIZONTAL N/A

ARCHIVED ON CADD

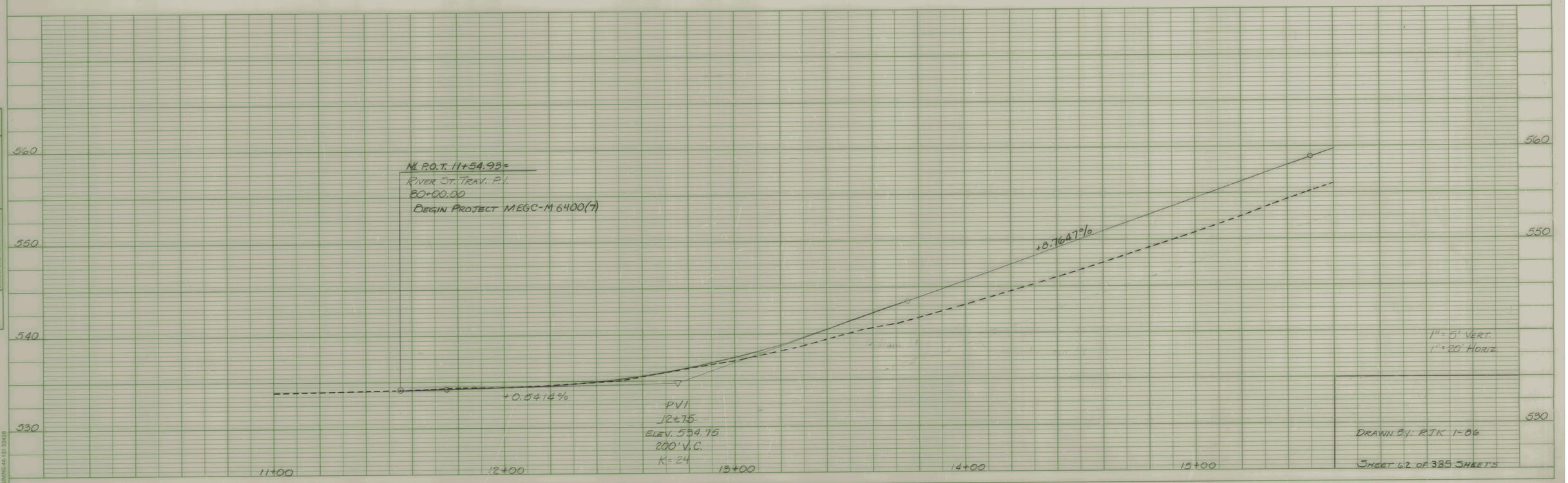
SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	/usr/const/76b033/cb033a		
PRF FILE	cb033csl	DATE PLOTTED	26-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET 61A	OF 355	SHEETS	

PLAN

		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE

		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B. M.'s NOTED		
	STRUCTURE NOTATNS CH'KD		



BRUNING 44-131 53428

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

VERTICAL GRANITE CURB

LEFT	RIGHT
~~17+00~~	
~~17+12~~ ~ 18+81	~~17+00 ~ 17+46~~
~~18+87 ~ 19+19~~	~~17+68 ~ 18+56~~
~~19+41 ~ 19+85~~	~~18+78 ~ 19+25~~
~~20+25 ~ 20+59~~	~~19+52 ~ 19+91~~
~~20+81 ~ 21+00~~	~~20+05 ~ 20+94~~
~~18+86~~ ~ 21+00	17+00 ~ 21+00

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES

CONSTRUCT RETAINING WALL ✓ WITH METAL HANDRAIL

LT

~~18+42 ~ 18+95~~

~~19+00 ~ 19+20~~

18+42 ~ 19+22 LT

CONSTRUCT CONCRETE STAIRWAY ✓ WITH METAL HANDRAIL ✓

LT

18+97.5 (5' WIDE) ✓

19+81 (4' WIDE) ✓

20+59 (4' WIDE) ✓

CONSTRUCT SIDEWALK RAMP ✓

LT	RT
18+84 (TYPE 6)	18+84 (TYPE 6)

PORTLAND CEMENT CONCRETE SIDEWALK-5" ✓

17+00 RT ~ 19+~~09~~ 32 RT (5' WIDE)

~~18+75 LT ~ 19+37 LT (3.5' WIDE)~~

~~19+37 LT ~ 21+00 LT (5' WIDE)~~

19+82 LT (4'WIDE PVT. WALK) ✓

20+59 LT (2'WIDE PVT. WALK) ✓

18+81 LT~18+86 LT (5' W)

18+86 LT~19+21.4 LT (3.6' W)

19+21.4 LT~21+00 LT (5' W)

~~TRANSPLANTING TREES~~

~~19+01~ 19+04 RT (LILACS)(EST. 5)~~

~~TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.~~

EVERGREEN TREES

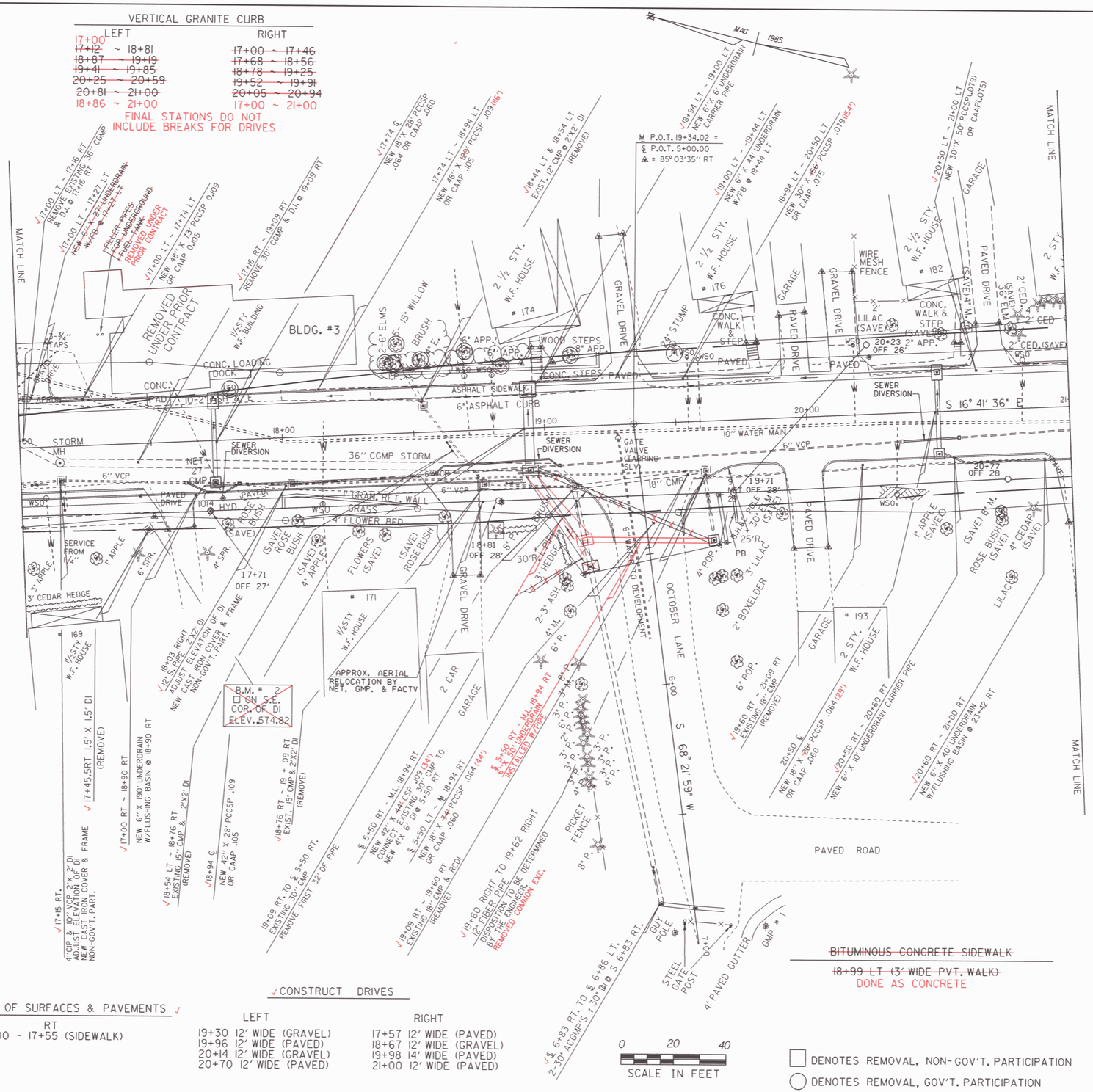
18+42 ~ 19+~~20~~ 22 LT (3'~4' CEDAR HEDGE)(EST. ~~40~~) 79

TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.

DECIDUOUS TREES ✓

19+50 ~ 20+00 LT. (2-1½" SUGAR MAPLES) ✓

(SUGAR MAPLES TO BE PLANTED OUTSIDE OF R.O.W. IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND THE RESIDENT ENGINEER.



EXCAVATION OF SURFACES & PAVEMENTS ✓

RT

17+00 - 17+55 (SIDEWALK)

✓CONSTRUCT DRIVES

LEFT	RIGHT
19+30 12' WIDE (GRAVEL)	17+57 12' WIDE (PAVED)
19+96 12' WIDE (PAVED)	18+67 12' WIDE (GRAVEL)
20+14 12' WIDE (GRAVEL)	19+98 14' WIDE (PAVED)
20+70 12' WIDE (PAVED)	21+00 12' WIDE (PAVED)

~~BITUMINOUS CONCRETE SIDEWALK~~

~~18+99 LT (3' WIDE PVT. WALK)~~

DONE AS CONCRETE

☐ DENOTES REMOVAL, NON-GOV'T. PARTICIPATION

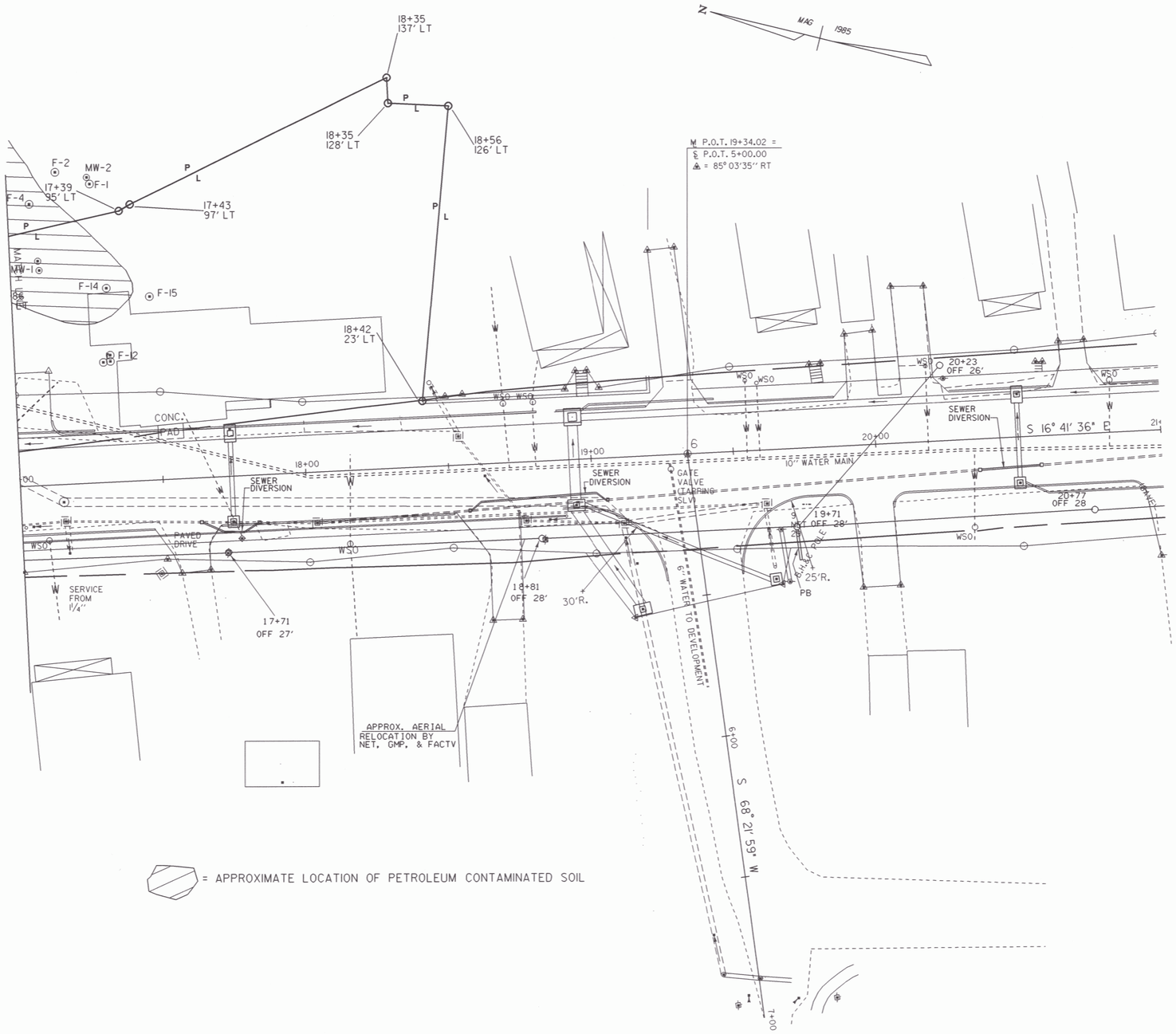
◯ DENOTES REMOVAL, GOV'T. PARTICIPATION

DATUM

VERTICAL NGVD 1929

HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE 7-85
DRAWN BY	COTA/NAILOR	DATE 4-88
SQUAD LEADER	SHERIDAN	
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1	
IPARM FILE	PETED2.PRF	DATE PLOTTED 9-FEB-1996
PROJ. NAME	MONTPELIER	
PROJ. NO.	MEGC M 6400(7)	
SHEET	63 OF 355 SHEETS	



= APPROXIMATE LOCATION OF PETROLEUM CONTAMINATED SOIL

0 20 40
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	/usr/const/76b033/cb033a		
PRF FILE	cb033cs2	DATE PLOTTED	26-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	63A OF 355 SHEETS		

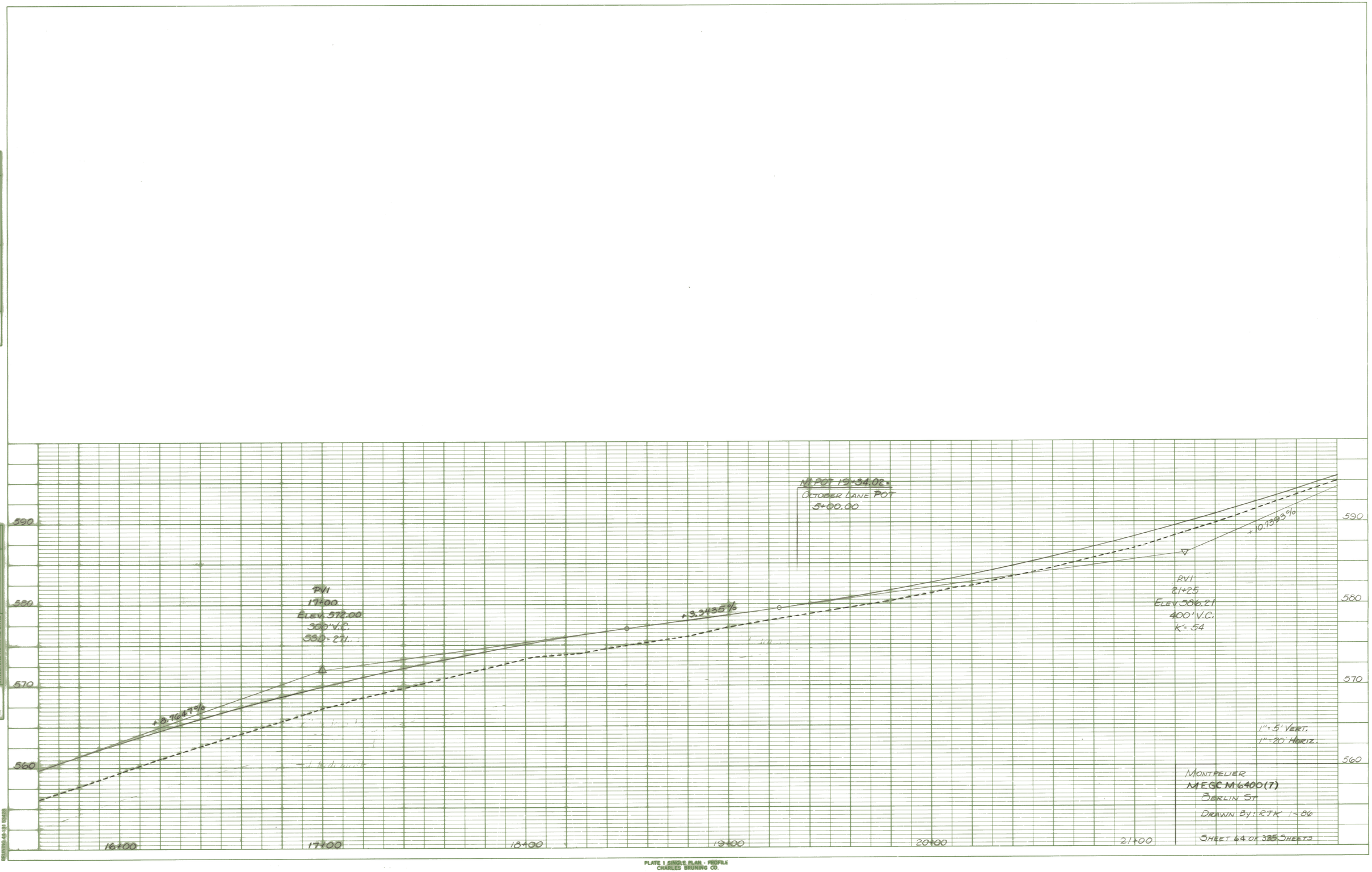


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

RECONSTRUCT CONCRETE STEPS ✓
W/METAL HAND RAIL
(AS NECESSARY, OR AS DIRECTED
BY THE ENGINEER)
25+14 RT

CONSTRUCT CONCRETE STAIRWAY ✓
W/METAL HANDRAIL (4'WIDE)
21+05 LT

CONSTRUCT SIDEWALK RAMP ✓
LEFT
REV 25+54 (TYPE I)
REV 25+95 (TYPE I)

FINAL STATIONS DO NOT
INCLUDE BREAKS FOR DRIVES
VERTICAL GRANITE CURB

LEFT	RIGHT
~~21+00 ~ 21+09~~	~~21+07 ~ 22+12~~
~~21+31 ~ 21+73~~	~~22+25 ~ 23+06~~
~~21+98 ~ 22+89~~	~~23+22 ~ 24+01~~
~~23+21 ~ 23+50~~	~~24+19 ~ REV 25+00~~
~~23+80 ~ 24+47~~	~~REV 25+12 ~ REV 26+52~~
~~24+73 ~ REV 25+37~~	~~REV 26+70 ~ REV 27+00~~
~~REV 25+52 ~ REV 25+63~~	21+00 ~ 27+00
~~REV 25+80 ~ REV 25+94~~	
~~REV 26+02 ~ REV 27+00~~	
21+00 ~ 25+20	
25+80 ~ 27+00	

✓ NOTE: THE YARD LIGHT PRESENTLY LOCATED @ 23+27 RT WILL BE RELOCATED OUTSIDE THE CITY'S R.O.W. LIMITS, AT A LOCATION MUTUALLY AGREEABLE WITH THE RESIDENT AND THE PROPERTY OWNER. THE COSTS FOR THIS WORK AND ANY NECESSARY MATERIALS WILL BE PAID UNDER ITEM 679.25 (MOD). REMOVING & RESETTING LIGHT POLE. AND SHALL BE NON-GOV'T. PARTICIPATING.

CONSTRUCT DRIVE

LEFT	RIGHT
21+20 12' WIDE (GRAVEL)(PAVED)	22+21 12' WIDE (PAVED) ✓
21+85 15' WIDE (PAVED) ✓	23+14 16' WIDE (PAVED) ✓
23+05 22' WIDE (GRAVEL)(PAVED)	24+10 16' WIDE (PAVED) ✓
23+65 20' WIDE (PAVED) ✓	REV 25+05 12' WIDE (PAVED) ✓
24+60 16' WIDE (GRAVEL) ✓	REV 26+60 16' WIDE (PAVED) ✓

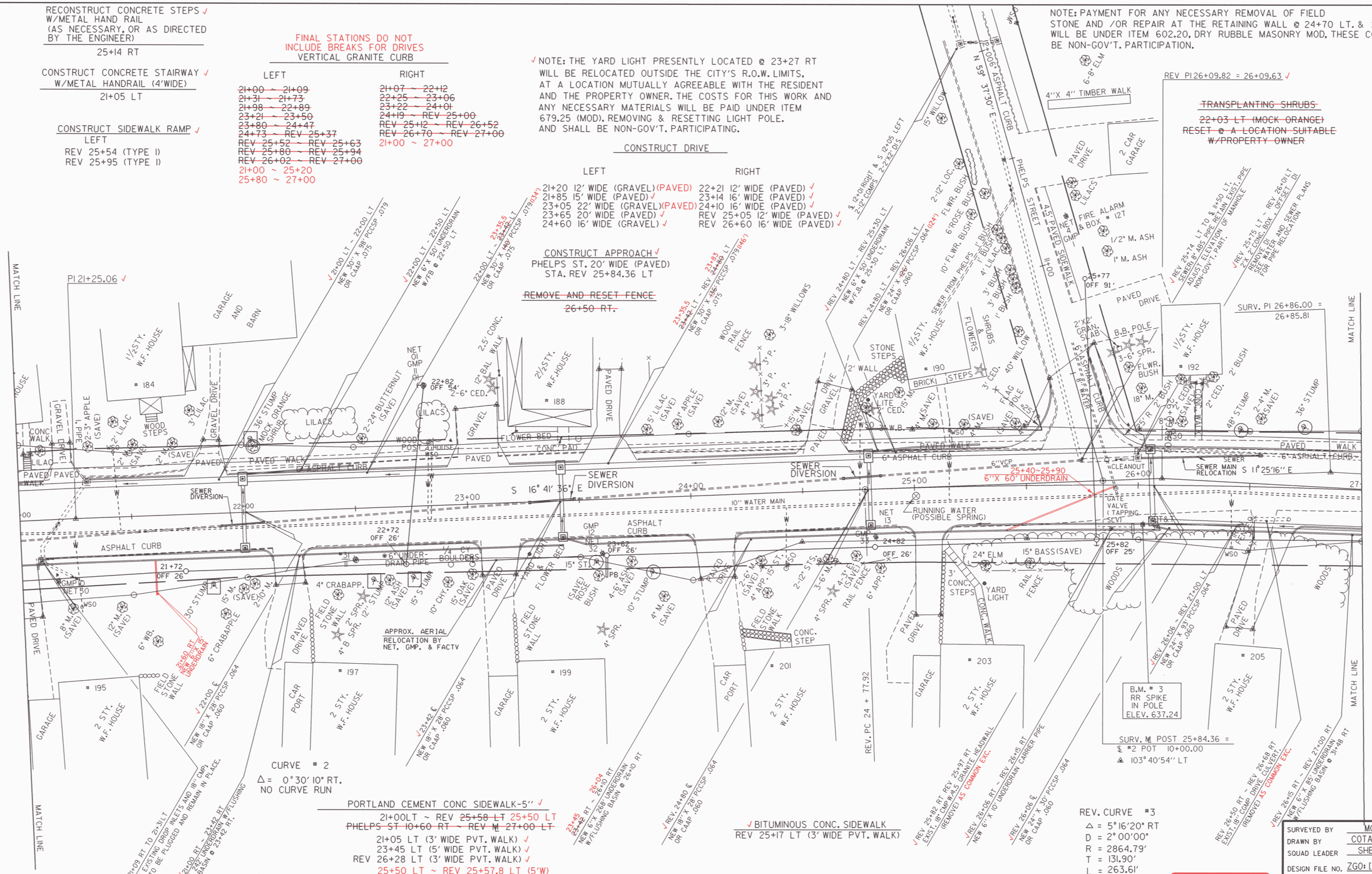
CONSTRUCT APPROACH ✓
PHELPS ST. 20' WIDE (PAVED)
STA. REV 25+84.36 LT

~~REMOVE AND RESET FENCE~~
~~26+50 RT.~~

NOTE: PAYMENT FOR ANY NECESSARY REMOVAL OF FIELD STONE AND /OR REPAIR AT THE RETAINING WALL @ 24+70 LT. & 25+13 RT., WILL BE UNDER ITEM 602.20, DRY RUBBLE MASONRY MOD, THESE COSTS WILL BE NON-GOV'T. PARTICIPATION.

REV PI 26+09.82 = 26+09.63 ✓

~~TRANSPLANTING SHRUBS~~
~~22+03 LT (MOCK ORANGE)~~
~~RESET @ A LOCATION SUITABLE~~
~~W/PROPERTY OWNER~~



CURVE # 2
Δ = 0° 30' 10" RT.
NO CURVE RUN

PORTLAND CEMENT CONC SIDEWALK-5" ✓
21+00LT ~ REV ~~25+58 LT~~ 25+50 LT
~~PHELPS ST 10+60 RT ~ REV ℄ 27+00 LT~~
21+05 LT (3' WIDE PVT. WALK) ✓
23+45 LT (5' WIDE PVT. WALK) ✓
REV 26+28 LT (3' WIDE PVT. WALK) ✓
25+50 LT ~ REV 25+57.8 LT (5'W)
25+81LT ~ REV 25+97 LT (5'W)
25+97 LT ~ REV 27+00 LT (5'W)

✓ BITUMINOUS CONC. SIDEWALK
REV 25+17 LT (3' WIDE PVT. WALK)

REV. CURVE #3
Δ = 5° 16' 20" RT
D = 2° 00' 00"
R = 2864.79'
T = 131.90'
L = 263.61'
E = 3.03'
DO NOT BANK

0 20 40
SCALE IN FEET

☐ DENOTES REMOVAL, NON-GOV'T. PARTICIPATION
◯ DENOTES REMOVAL, GOV'T. PARTICIPATION

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO: [50, 116] PETED. DGN; 1		
IPARM FILE	PETED3. PRF	DATE PLOTTED	9-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	65 OF 355 SHEETS		

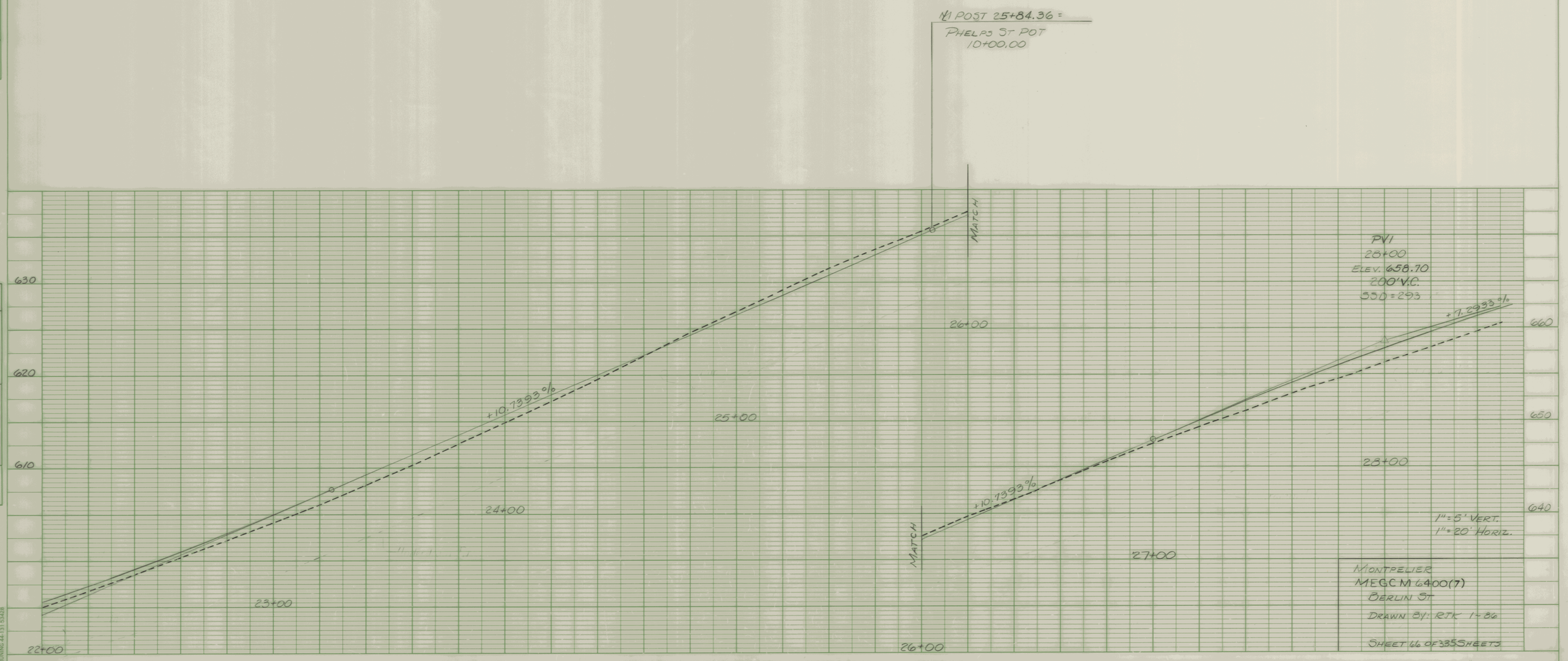


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

CONSTRUCT DRIVES

LEFT	RIGHT
REV 27+82 15'WIDE (PAVED)	REV 27+71 13'WIDE ~~(GRAVEL)~~(PAVED)
REV 28+67 12'WIDE ~~(GRAVEL)~~PAVED	REV 28+79 15'WIDE (CONCRETE)
REV 29+54 12'WIDE ~~(GRAVEL)~~PAVED	~~REV 31+08 12'WIDE (PAVED)~~MOVED TO WILSON ST. 16+00 LT
REV 29+64 12'WIDE (PAVED)	REV 31+77 14'WIDE (PAVED)
REV 31+95 14'WIDE (PAVED)	
REV 32+75 24'WIDE (PAVED)	
REV 33+00 12'WIDE ~~(GRAVEL)~~(PAVED)	

✓NOTE: THE CONCRETE DRIVE @ 28+79 RT. SHALL BE PAID AS PORTLAND CEMENT CONCRETE SIDEWALK, 5".

~~STONE FILL TYPE I FOR SLOPE STABILIZATION~~
~~30+50 ~ 30+80 RT~~

PORTLAND CEMENT CONC. SIDEWALK - 5"X 5' WIDE ✓
REV 27+00 LT ~ REV 33+00 LT ✓

✓EXCAVATION OF SURFACES AND PAVEMENTS
REV. STA 32+04 LT ~ 32+62 LT REMOVE EXISTING PAVEMENT FOR 4' BEHIND NEW SIDEWALK.AREA TO BE TOPSOILED AND SEEDED, AS DIRECTED BY THE ENGINEER.

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES
VERTICAL GRANITE CURB

LEFT	RIGHT
~~REV. 27+00 ~ 27+69~~	~~REV. 27+00 ~ 27+65~~
~~REV. 27+91 ~ 28+56~~	~~REV. 27+79 ~ 28+73~~
~~REV. 28+78 ~ 29+43~~	~~REV. 28+89 ~ 29+94~~
~~REV. 29+75 ~ 31+83~~	~~REV. 30+23 ~ 31+02~~
~~REV. 32+07 ~ 32+58~~	~~REV. 31+12 ~ 31+69~~
27+00 ~ 33+00	~~REV. 31+84 ~ 33+00~~
	30+26 ~ 33+00

✓NOTE: THE YARD LAMP @ 28+67 RT WILL BE RESET AT A LOCATION OUTSIDE THE CITY'S R.O.W. LIMITS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND THE RESIDENT ENGINEER. THE COSTS FOR THIS WORK AND ANY NECESSARY ADDITIONAL MATERIALS WILL BE PAID UNDER ITEM 679.25 (MOD.) AND SHALL BE NON-GOV'T. PARTICIPATION.

~~CEMENT RUBBLE MASONRY~~ PAVED
~~REV. 29+40 LT (4' WIDE FLAGSTONE WALK)~~
~~REV. 31+61LT (6' WIDE FIELDSTONE WALK)~~

✓ CONSTRUCT APPROACH
30+10.22 RT WILSON ST.- 30' WIDE (PAVED)

✓ REV. CURVE # 4
△ = 2°34'06" RT.
D = 1°00'00"
R = 5729.58'
T = 128.44'
L = 256.83'
E = 1.44'

✓BITUMINOUS CONC. SIDEWALK
REV. 29+95 LT (3.5' WIDE PVT. WALK)

DO NOT BANK
◯ DENOTES REMOVAL, GOV'T. PARTICIPATION
□ DENOTES REMOVAL, NON-GOV'T. PARTICIPATION

0 20 40
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE 7-85
DRAWN BY	COTA/NAILOR	DATE 4-88
SQUAD LEADER	SHERIDAN	
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1	
IPARM FILE	PETED4.PRF	DATE PLOTTED 13-FEB-1996
PROJ. NAME	MONTPELIER	
PROJ. NO.	MEGC M 6400(7)	
SHEET	67 OF 355 SHEETS	

ARCHIVED ON CADD

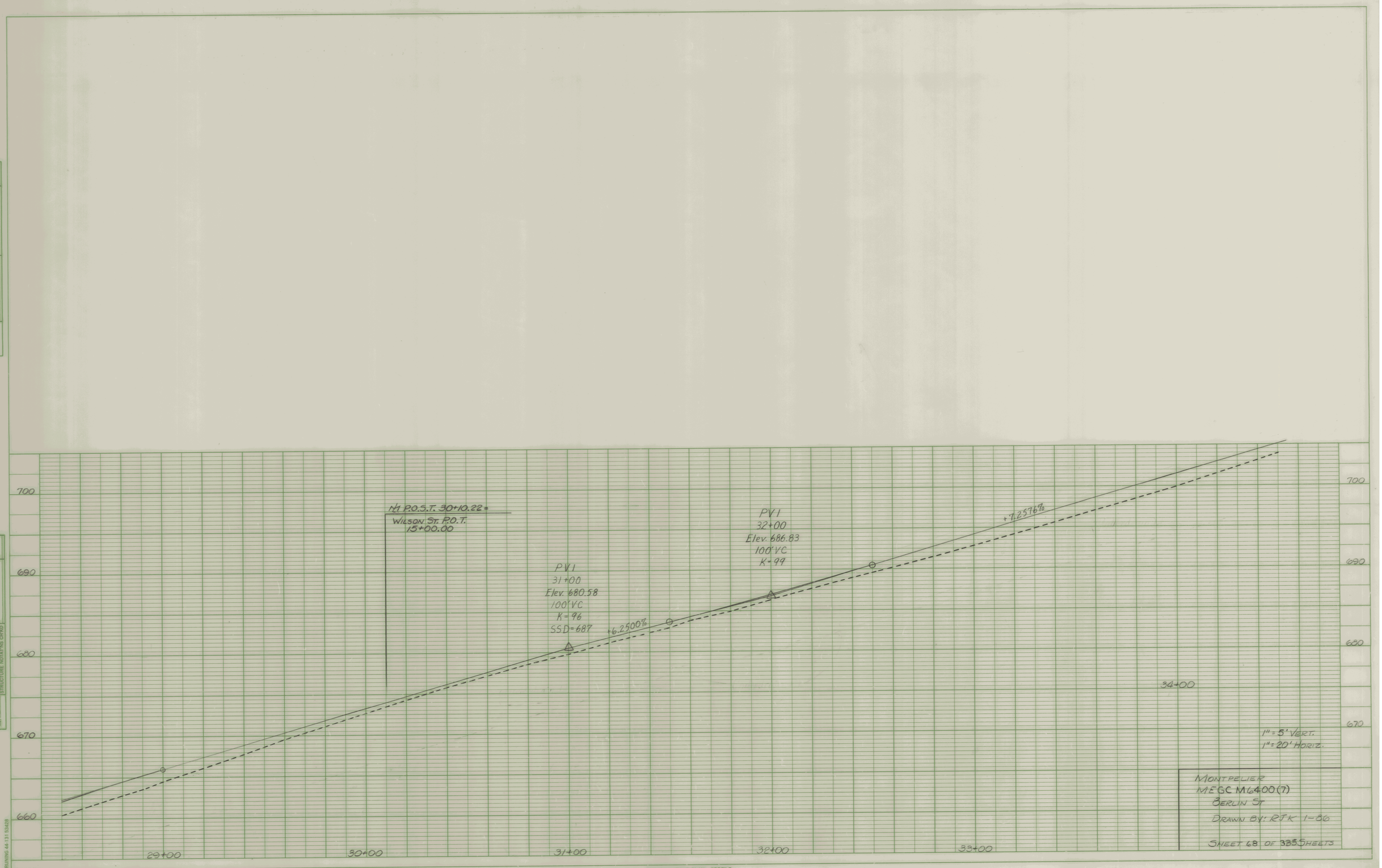


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

CONSTRUCT SIDEWALK RAMP ✓

LEFT

REV.34+42 (TYPE I) ✓

REV. 34+89 (TYPE I) ✓

PORTLAND CEMENT CONC. SIDEWALK - 5"X 5' WIDE

REV. 33+00 LT ~ ~~34+47~~ LT 34+38.5

~~REV. 34+87 LT ~ 39+00 LT~~

34+38.5 LT ~ 34+53.2 LT

34+84 LT ~ 34+94.5 LT

34+94.5 LT ~ 39+00 LT

BITUMINOUS CONCRETE SIDEWALK

REV. 33+29 LT (3' WIDE ~~PVT.~~ WALK) (CONCRETE)

REV. 33+50 LT (2' WIDE ~~PVT.~~ WALK) (CONCRETE)

REV. 34+10 LT (3' WIDE ~~PVT.~~ WALK) (CONCRETE)

REV. 35+34 LT (3' WIDE ~~PVT.~~ WALK) (CONCRETE)

REV. 36+83 LT (4' WIDE PVT. WALK) ✓

REV. 37+65 LT (2' WIDE PVT. WALK) ✓

CONSTRUCT APPROACH ✓

REV 34+66.20 LT BLODGETT AVE 16' WIDE (PAVED)

✓NOTE: CONTRACTOR IS TO INSTALL A 4' PICKET FENCE ALONG THE TOP OF THE FRONT YARD BANK, FROM 34+00 RT. TO STA. 34+82 RT. COSTS FOR THIS WORK AND ASSOCIATED MATERIALS WILL BE PAID UNDER ITEM 620.11 (MOD.) CHAIN LINK FENCE (4') FOR DETAILS OF FENCE SEE SHEET #102

CONSTRUCT DRIVES ✓

LEFT	RIGHT
REV. 35+60 12'WIDE (PAVED) ✓	REV. 33+64 16'WIDE (PAVED) ✓
REV. 36+40 16'WIDE (PAVED) ✓	REV. 33+93 24'WIDE (PAVED) ✓
(PAVED) REV. 37+23 12'WIDE ~~(GRAVEL)~~	REV. 35+60 12'WIDE (PAVED) ✓
REV. 37+96 16'WIDE (PAVED) ✓	REV. 36+71 14'WIDE (PAVED) ✓
REV. 38+76 22'WIDE (PAVED) ✓	REV. 37+75 16'WIDE (PAVED) ✓
	REV. 38+60 13'WIDE (PAVED) ✓

STONE FILL, TYPE II FOR SLOPE STABILIZATION @ 38+60 RT. (DRIVEWAY) ✓

~~TRANSPLANTING TREES~~

~~36+69 RT(LILACS)~~

~~TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH PROPERTY OWNER AND RESIDENT ENGINEER.~~

CONSTRUCT WOODEN STEPS

34+00 LT (HOUSE #224)

35+38 LT (HOUSE #230)

(PAYMENT WILL BE NON-STRUCTURAL LUMBER- TREATED)

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES

VERTICAL GRANITE CURB

LEFT 33+00 ~ 34+35	RIGHT 33+00 ~ 39+00
~~REV. 33+11 ~ 34+34~~	~~REV. 33+00 ~ 33+55~~
~~REV. 34+47 ~ 34+57~~	~~REV. 33+71 ~ 33+84~~
~~REV. 34+75 ~ 34+85~~	~~REV. 34+11 ~ 35+52~~
~~REV. 34+92 ~ 35+51~~	~~REV. 35+63 ~ 36+64~~
~~REV. 35+71 ~ 36+27~~	~~REV. 36+79 ~ 37+66~~
~~REV. 36+53 ~ 37+12~~	~~REV. 37+82 ~ 38+53~~
~~REV. 37+34 ~ 37+83~~	~~REV. 38+66 ~ 39+00~~
~~REV. 38+09 ~ 38+60~~	
~~REV. 38+92 ~ 39+00~~	
34+35 ~ 39+00	

DATUM

VERTICAL NGVD 1929

HORIZONTAL N/A

0 20 40

SCALE IN FEET

○ DENOTES REMOVAL, GOV'T. PARTICIPATION

BM #5 RR SPIKE IN POLE ELEV. 737.74

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZG0:[50,116]PETED.DGN;1		
IPARM FILE	PETED5.PRF	DATE PLOTTED	13-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	69 OF 355 SHEETS		

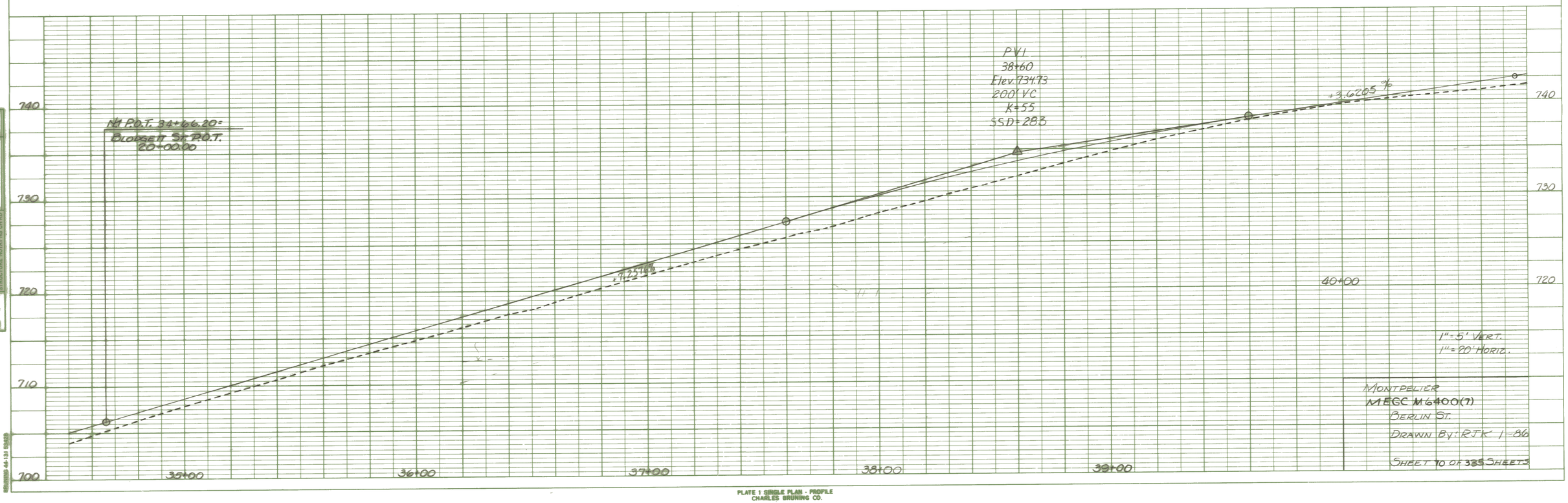


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

~~TRANSPLANTING SHRUBS~~
~~40+95 LT (3' BUSH)~~
~~BUSH TO BE TRANSPLANTED IN A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.~~

CONSTRUCT SIDEWALK RAMP ✓
LEFT
REV 40+97 (TYPE I) ✓
REV 41+78 (TYPE I) ✓
FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES
VERTICAL GRANITE CURB
LEFT
39+00 ~ 41+20
~~REV 39+00 ~ REV 39+53~~
~~REV 39+79 ~ REV 40+26~~
~~REV 40+48 ~ REV 40+90~~
~~REV 41+03 ~ REV 41+15~~
~~REV 41+39 ~ REV 41+70~~
~~REV 41+82 ~ REV 45+00~~
41+50 ~ 45+00
RIGHT
39+00 ~ 41+62
~~REV 39+00 ~ REV 39+46~~
~~REV 39+56 ~ REV 39+71~~
~~REV 39+81 ~ REV 40+46~~
~~REV 40+62 ~ REV 41+67~~
~~REV 41+76 ~ REV 43+22~~
~~REV 43+41 ~ REV 44+80~~
~~REV 44+92 ~ REV 45+00~~
41+82 ~ 45+00

BITUMINOUS CONC. SIDEWALK ✓
REV 40+13 LT (5' WIDE PVT. WALK) ✓
REV 41+98 LT (2' WIDE PVT. WALK) ✓

~~CEMENT RUBBLE MASONRY~~
~~REV 39+20 LT. (2.5' FLAGSTONE WALK)~~
DONE AS CONCRETE CLASS B

✓CONSTRUCT APPROACH (WHEELOCK ST.)
REV 41+57.15 LT 26'WIDE (PAVED)

~~TRANSPLANTING TREES~~
~~39+69 RT. (LILAC TREE)~~
~~39+87 RT. (LILAC TREE)~~
~~40+14 RT. (1" CRAB APPLE)~~
~~40+93 LT (4" APPLE)~~
~~TREES TO BE TRANSPLANTED OUTSIDE OF R.O.W. IN A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER~~

PORTLAND CEMENT CONC SIDEWALK - 5''-5' WIDE ✓
REV 39+00 LT ~ REV 40+98 LT ✓ 40+98 LT ~ 41+05.5 LT
~~REV 41+65 LT ~ REV 45+00 LT~~ 41+65 LT ~ 41+79.5 LT
41+79.5 LT ~ 45+00 LT

EXCAVATION OF SURFACES AND PAVEMENTS
REV 39+30 - 40+20 LT (SIDEWALK)
REV. 43+90 - 45+00 LT (SIDEWALK)

CONSTRUCT DRIVES
LEFT
✓REV 39+66 14'WIDE (PAVED)
✓REV 40+39 16'WIDE (PAVED)
RIGHT
✓REV 39+50 12'WIDE (PAVED)
~~REV 39+77 10'WIDE (GRAVEL)~~
✓REV 40+55 16'WIDE (GRAVEL)
✓REV 41+71 12'WIDE (PAVED)
✓REV 43+31 18'WIDE (PAVED)
✓REV 44+86 12'WIDE (PAVED)

✓DECIDUOUS TREES
✓39+97 RT (1½ ''CRAB APPLE)
✓40+30 RT (1½ ''CRAB APPLE)
TREES TO BE PLANTED OUTSIDE OF R.O.W. IN A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.

REV CURVE # 5 ✓
△ = 3°24'07" LT.
D = 1°00'00"
R = 5729.58'
T = 170.15'
L = 340.19'
E = 2.53
DO NOT BANK

N 47°52'56" E
S 08°51'10" E
S 12°15'17" E
MAG 1985

MATCH LINE

APPROXIMATE LOCATION NEW 6/6 JUNCTION BOX

REV 39+00 LT ~ REV 40+50 LT. NEW 18"X 30' PCCSP .064 OR CAAP .060(48)

✓REV 39+00 LT ~ REV 39+50 LT NEW 6'-1"X 50' UNDERDRAIN W/FB @ 39+50 LT.

APPROXIMATE LOCATION NEW 36"X 12' PCCSP

~~REV 40+95 LT ~ REV 41+15 LT NEW 24"X 34' PCCSP .064 OR CAAP .060~~

~~RETAIN EXISTING 24" CMP. CONNECT TO NEW 24" PCCSP @ 25+59 LT CHANGE SLEEVE OF SAME.~~

~~REV 40+95 LT ~ REV 41+84 LT NEW 24"X 84' PCCSP .064 OR CAAP .060~~

~~RETAIN EXISTING 18" CMP. CONNECT TO NEW 18" PCCSP @ 25+10 LT. CHANGE SLEEVE OF SAME AND EXTEND FROM ℄ 25+55 LT TO ℄ 25+59 LT~~

✓℄ 25+35 RT TO ℄ 25+59 LT
EXIST. DROP INLET W/22"X 36" CMP OUTLET REMOVE TOP AND PIPE (COMMON EXCA.)

✓℄ 25+24 LT EXIST. SEWER MANHOLE; RETAIN EXISTING PIPES ADJUST ELEVATION OF MANHOLE NON-GOV'T. PART.

✓REV. 41+84 LT ~ REV. 41+94 LT NEW 6'-1"X 50' UNDERDRAIN CARRIER PIPE

✓REV 41+84 ℄ NEW 18"X 30' PCCSP .064 OR CAAP .060

✓REV 41+94 LT ~ REV 42+44 LT NEW 6'-1"X 50' UNDERDRAIN W/FB @ 42+44 LT.

✓REV 41+84 LT~REV 43+50 LT NEW 24"X 84' PCCSP .064 OR CAAP .060 (64')

✓REV 44+10 LT. EXIST. 52" X 52" CMP W/D-REMOVE

✓REV 43+50 ℄ NEW 18"X 30' PCCSP .064 OR CAAP .060

✓REV 43+50 LT ~ REV 45+00 LT NEW 24"X 108' PCCSP .064 OR CAAP .060

REV PC 44+92.39

✓REV 39+00 RT ~ REV 40+80 RT NEW 6'-1"X 190' UNDERDRAIN W/FLUSHING BASIN @ 40+80 RT

✓40+50 LT ~ 40+67 RT NEW 18"X 34' PCCSP .064 OR CAAP .060

✓REV 40+95 ℄ REMOVE EXISTING 24" CMP. RCDI & STONE HEADWALL

REV 40+95 LT ~ REV 41+45 RT NEW 36"X 215' RCP (100') OR CAAP X 215' NEW 6'X 6' CONC. CATCH BASIN W/REM. CONC. WING & CONC. CATCH STONE FILL TYPE I @ INLET

SURV. M POT 41+57.15
= ℄ #5 POT 25+00.00
△ = 119° 51' 47" LT

✓REV 41+84 RT ~ REV 41+95 RT NEW 6'-1"X 10' UNDERDRAIN CARRIER PIPE

✓REV 40+95 RT ~ REV. 43+88 RT REMOVE EXISTING 15"X290' CMP & 2'X2' DI

~~REV. 43+50 RT ~ REV. 43+66 RT NEW 6'-1"X 20' UNDERDRAIN CARRIER PIPE~~

✓REV 43+50 RT~REV 43+90 RT NEW 18"X 40' PCCSP .064 OR CAAP .060

✓REV 41+88 RT ~ REV 45+00 RT EXIST. 15" CMP. AND 2'X2' DI(REMOVE)

REV 43+90 RT ~ REV 43+97 RT. NEW 12"X8"X 15' PCCSP

✓REV 41+95 RT ~ REV 45+00 RT NEW 6'-1"X 305' UNDERDRAIN W/FLUSHING BASIN @ 46+95 RT

✓REV 45+00 ℄ NEW 18"X 30' PCCSP .064 OR CAAP .060

✓REV 43+50 LT ~ REV 45+00 LT NEW 24"X 108' PCCSP .064 OR CAAP .060

✓REV 40+50 RT ~ REV 40+80 RT NEW 6'-1"X 190' UNDERDRAIN W/FLUSHING BASIN @ 40+80 RT

NOTE: THE WOOD FROM THE 24" S.M. @ STA 39+13 RT IS TO BE RETAINED BY THE PROPERTY OWNER, AND STACKED AT A LOCATION SPECIFIED BY THE ENGINEER.

ARCHIVED ON CADD

✓NOTE: IF THERE IS EXISTING UNDERDRAIN UNDER THE DRIVE AT 43+31RT THE RESIDENT ENGINEER CAN EMPTY IT INTO THE NEW DROP INLET @ 43+50 RT.

○ DENOTES REMOVAL, GOV'T. PARTICIPATION

0 20 40
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZG0:[50,116]PETED.DGN;1
IPARM FILE PETED6.PRF DATE PLOTTED 13-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 71 OF 355 SHEETS

PLAN

SURVEYED
PLOTTED
GRADES CHECKED
R.O.W. NOTED
STRUCTURE LOCATIONS CHECKED

NOTE BOOK
NO.

BY

DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
R.O.W. NOTED
STRUCTURE LOCATIONS CHECKED

NOTE BOOK
NO.

BY

DATE

780
770
760
750
740

N. P.O.T. 41+57.15=
WHEELOCK ST. P.O.T.
25+00.00

+3.6805%

PVI
42+50
ELEV. 748.05
350' V.C.
K=55

+10.0257%

PVI
46+00
Elev. 783.94
200' V.C.
SSD=398

+7.7946%

Rev. 46+81.97=
Surv. 46+81.47
Eq=10.5'

41+00
42+00
43+00
44+00
45+00
46+00
47+00

800
790

1"=5' VERT.
1"=20 HORIZ.

MONTPELIER
MEGC MG400(7)
BERLIN ST.
DRAWN BY: RJK 1-86
SHEET 72 OF 365 SHEETS

BRUNING 44-131 53428

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

~~REMOVING AND RESETTING FENCE~~
~~50+34 ~ 50+42 LT~~
~~50+66 ~ 50+75 LT~~
~~50+95 ~ 51+00 LT~~

√EXCAVATION OF SURFACES AND PAVEMENTS
REV. 45+00 ~ 45+47 LT (SIDEWALK)

RELOCATE MAILBOX SINGLE SUPPORT
48+40 RT

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
49+80 RT ~ 50+30 RT

√CURVE # 6
△ = 11°24'00" LT.
D = 6°00'00"
R = 954.93'
T = 95.31
L = 190.00
E = 4.74
DO NOT BANK

CONSTRUCT DRIVES

LEFT (PAVED)	RIGHT
REV. 45+60 12'WIDE ~~(GRAVEL)~~	√REV. 45+70 12'WIDE (PAVED W/TURN-AROUND)
√REV. 46+54 16'WIDE (PAVED)	√REV. 46+68 12'WIDE (PAVED)
√48+68 12'WIDE (PAVED)	√47+60 12'WIDE (PAVED)
√49+33 14'WIDE (PAVED)	√48+33 20'WIDE (PAVED)
√50+53 12'WIDE (PAVED)	√49+60 17'WIDE (PAVED)•

√CONSTRUCT APPROACH
47+64.49 LT VALERIE AVE.- 24' WIDE (PAVED)

√NOTE: STONE WALL LOCATED BETWEEN STA 48+45 RT & STA 49+45 RT WHICH WILL BE REMOVED DURING THE CONSTRUCTION PERIOD IS TO BE RESET AS FOLLOWS. THE SECTION PRESENTLY LOCATED BETWEEN STA 49+27 RT AND 49+45 RT WILL BE RELOCATED AT APPROXIMATELY THE SAME STATIONS ON THE WESTERLY EDGE OF THE NEW DRIVE AT STA 49+60 RT. THE SECTION PRESENTLY LOCATED BETWEEN STA 48+45 RT AND 49+00 RT WILL BE RELOCATED WESTERLY OF THE RIGHT OF WAY LIMITS, BETWEEN THE SAME STATIONS. PAYMENT FOR REMOVING AND RESETTING THE WALL WILL BE UNDER ITEM 602.20. DRY RUBBLE MASONRY •

• CONSTRUCTION COSTS FOR THE DRIVE AND WALLS ARE NON-GOV'T. PARTICIPATION.

√DECIDUOUS TREES
50+06 ~ 51+00 LT 2-1½" SUGAR MAPLES
1-1½" TO 2" RADIANT FLOWERING CRAB
TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.

CONSTRUCT SIDEWALK RAMP
LEFT
47+42 (TYPE I)
47+95 (TYPE I)

PORTLAND CEMENT CONC. SIDEWALK, 5"
REV 45+00 LT ~ ~~47+45~~ LT - 5' WIDE 47+34.5
48+00 ~~47+91~~ LT ~ 51+00 LT - 4' WIDE
47+34.4 ~ 47+45 LT 47+90 ~ 48+00 (4.42'W)
NOTE: WALK @ 47+55 RT WILL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET THE ELEVATION OF THE NEW DRIVEWAY.

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES
VERTICAL GRANITE CURB

LEFT	RIGHT
45+00 ~ 47+50	45+00 ~ 48+30
~~REV 45+00 ~ REV 45+49~~	~~REV 45+00 ~ REV 45+65~~
~~REV 45+71 ~ REV 46+41~~	~~REV 45+76 ~ REV 46+63~~
~~REV 46+66 ~ 47+31~~	~~REV 46+75 ~ 47+54~~
~~47+45 ~ 47+53~~	~~47+66 ~ 48+19~~ 48+45 ~ 49+40
~~47+78 ~ 47+89~~	~~48+48 ~ 49+52~~ 49+00 ~ 49+50
~~48+00 ~ 48+57~~	~~49+70 ~ 51+00~~ 49+73 ~ 49+78
~~48+79 ~ 49+21~~	49+78 ~ 51+00
~~49+41 ~ 50+42~~	
~~50+64 ~ 51+00~~	
47+76 ~ 51+00	

0 20 40
SCALE IN FEET

◯ DENOTES REMOVAL, GOV'T. PARTICIPATION
□ DENOTES REMOVAL, NON-GOV'T. PARTICIPATION

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

REV PI 45+87.28 = 45+86.66

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO: [50,116]PETED.DGN;1		
IPARM FILE	PETED7.PRF	DATE PLOTTED	14-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	73 OF 355 SHEETS		

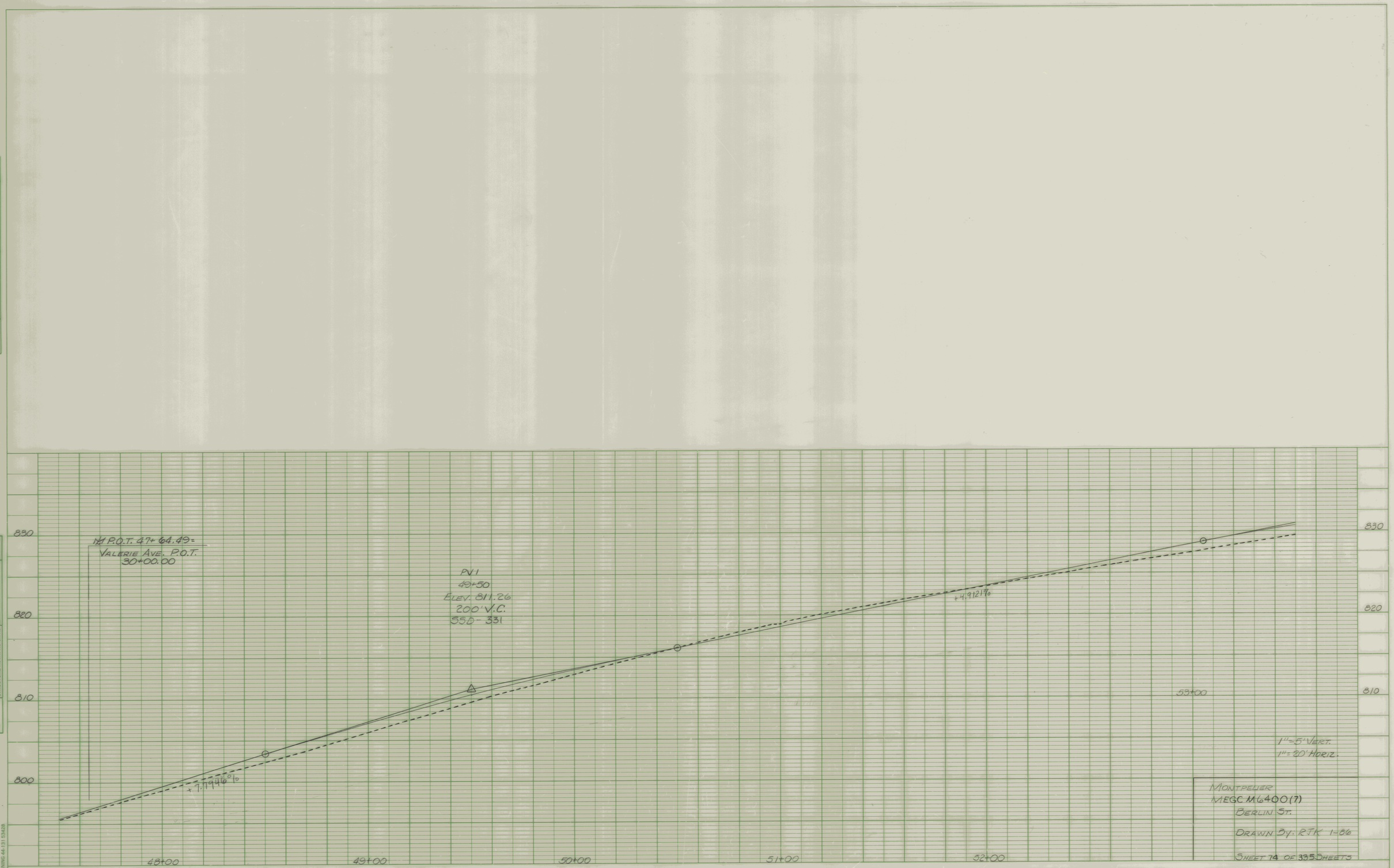


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

~~REMOVING & RESETTING FENCE~~
~~5I+00 LT ~ 5I+03 LT~~

VERTICAL GRANITE CURB

LEFT	RIGHT
~~5I+00 ~ 5I+03~~	~~5I+00 ~ 52+25~~
~~5I+34 ~ 52+06~~	~~52+44 ~ 53+89~~
~~52+3I ~ 53+05~~	~~54+I2 ~ 54+76~~
~~53+27 ~ 54+08~~	~~54+98 ~ 56+50~~
~~54+20 ~ 54+3I~~	5I+00 ~ 53+90
~~54+59 ~ 56+50~~	54+I5 ~ 56+50
5I+00 ~ 54+35	FINAL STATIONS DO NOT
54+58 ~ 56+50	INCLUDE BREAKS FOR DRIVES

PORTLAND CEMENT CONC SIDEWALK - 5'' - 4'WIDE
5I+00 LT ~ ~~54+20~~ LT
54+I9
54+I9 LT ~ 54+30.5 LT

√CONSTRUCT SIDEWALK RAMP
LEFT
54+I7 (TYPE I)

~~TRANSPLANTING TREES~~
~~52+33 LT. (I'' APPLE)~~
~~TREE TO BE RESET AT A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.~~

CONSTRUCT DRIVES

LEFT	RIGHT
√5I+I9 22'WIDE (PAVED)	52+35 20'WIDE ~~(GRAVEL)~~(PAVED)
√52+I8 I4'WIDE (GRAVEL)	√53+98 22'WIDE (GRAVEL)
√53+I6 I2'WIDE (PAVED)	√54+86 20'WIDE (PAVED)

√CONSTRUCT APPROACH
54+5I.70 LT HEBERT RD 30'WIDE (PAVED)

√EVERGREEN TREES
53+I7 ~ 53+70 RT (I-4' TO 5' COLORADO BLUE SPRUCE)
(TREE TO BE PLANTED IN A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER

~~REMOVING AND RESETTING CURB~~ (PLACED AS NEW)
√53+88 RT (I5') TIMBER CURB ALONG
√54+I0 RT (I5') EDGE OF DRIVE

~~SODDING~~
~~53+28 ~ 53+55 LT.~~

RELOCATE MAILBOX, SINGLE SUPPORT
~~53+52 RT~~ 53+60 RT
~~55+03 RT~~ 55+05 RT

RELOCATE MAILBOX, MULTIPLE SUPPORT
~~5I+I6 RT~~ 5I+40 RT
~~52+23 RT~~ 53+60 RT
54+I5 RT
55+05 RT

N 49° 37' 39'' E
HEBERT ROAD
38+00
37+00
SURVEY BOUND
CONC. BOUND
6" ELM
WOODS
WSO
6" WATER
IRON PIPE
20'' WATER
12'' WATER
16'' WATER
TRAV. PI 35+74.56
NET ≈ I2-I5-3 GMP
54+6I OFF 58'
N 8° 42' I4'' E
W. PI 54+5I.70 = 8" ≈ 7 POT 35+00.00
Δ = I08° I0' 53'' LT
30'R
PROPERTY PIN
ROW OF 6" PINES
HONEYSUCKLE BUSH
8" M. (SAVE)
30" SYCAMORE
2" M.ASH
6" ASPHALT CURB
S 6° 44' 34'' E
S 23° 39' I7'' E
S 9° 53' 07'' W
52+00
53+00
54+00
55+00
56+00
SEWER FORCE MAIN DO NOT DISTURB
FORCE MAIN SAN.
54+6I OFF 2I'
56+I4 OFF 24'
NET ≈ GMP
IRON PIN
PB
BRACE POST
MATCH LINE
MAG 1985
N

√5I+00 LT ~ 5I+50 LT
NEW 6" X 50' UNDERDRAIN W/FB @ 5I+50 LT
5I+00 @ ~ 50+85
NEW 8" X 30' PCCSP .064 OR CAAP .060 (24')
√50+95 RT TO 5I+28.5 LT.
EXIST. DI W/6" VCP INLET AND A I2" CMP OUTLET
REMOVE EXIST. DI AND P/ CMP
DISPOSITION OF 6" VCP TO BE DETERMINED BY THE RESIDENT ENGINEER
5I+00 LT. ~ 52+35 LT.
NEW 8" X 36' PCCSP .064 OR CAAP .060 (24')
√52+35 LT ~ 52+54 RT.
NEW 8" X 36' PCCSP .064 OR CAAP .060
√52+45 RT.
EXIST. I2" CMP DRIVE CULVERT REMOVE!
PT 52+28.78
GRAVEL DRIVE
APPROX. AERIAL RELOCATION BY NET. GMP. & FACTV
CONC. STEPS
#267
#269
#271
#276
#278
#274
CAR PORT
1½STY. W.F. HOUSE
DECK
GARAGE
CONC. WALK
4' BUSH
2' SPR.
2' CED. HEDGE
2'-2' CED. HEDGE
CONC. STEPS & WALK
3' SPR. (SAVE)
6" M.
4" APP. (SAVE)
2-6" W.B. (SAVE)
GRAVEL DRIVE W/ R.R. TIE CURBING
WOOD RAIL FENCE
PAVED DRIVE
2-STONE RET. WALL
ROW
3' CEDAR
I.P.
3" SPRUCE TREES (SAVE)
4" SPR.
4" CHY.
20" W.P.
10" W.P.
15" W.P.
10" W.P
PC 53+8I.92
EXIST. TIMBER CURB
3" APPLE (SAVE)
YARD LIGHT
PAVED DRIVE
8' ROCK WALL
PT 55+20.49
FLAGPOLE
2 PINES
MB BIO & I2
GMP 37
51+II OFF 25'
PB
MATCH LINE
5I+00 RT ~ 5I+05 RT NEW 6"X5' UNDERDRAIN W/FB
5I+00 RT ~ 5I+05 RT NEW 6"X5' UNDERDRAIN W/FLUSHING BASIN @ 5I+05 RT
5I+I0 RT ~ 5I+I0 RT NEW 6" X I0' UNDERDRAIN CARRIER PIPE
5I+20 RT NEW 6"X36" UNDERDRAIN
52+54 RT ~ 53+I4 RT 6"X6" RIP UNDERDRAIN CARRIER PIPE
53+54 RT. ~ 54+20 RT. NEW I8" X I8" RCP PCCSP .064 OR CAAP .060 (I6')
√5I+I0 RT ~ 55+20 RT NEW 6" X 40' UNDERDRAIN W/FLUSHING BASIN @ 55+20 RT
√54+42 RT. EXIST. 4'X4' RCDI W/ A CIP & 6' CVP INLETS AND 6' CVP OUTLET RETAIN
√55+30 RT ~ 56+50 RT NEW 6" X I20' UNDERDRAIN W/FLUSHING BASIN @ 55+30 RT
√56+40 RT ~ 56+50 RT NEW I8" X I0' PCCSP(.064) OR CAAP(.060)
55+25 LT ~ 56+46 LT
55+89 LT ~ 56+46 LT
NEW 6" X 40' UNDERDRAIN W/FB @ 56+00 LT (I2')
√56+40 @ NEW 8" X 30' PCCSP .064 OR CAAP .060

CURVE # 7 √
Δ = I6° 54' 43'' RT.
D = I2° 00' 00''
R = 477.465
T = 70.98
L = I40.93
E = 5.25
DO NOT BANK

CURVE #8 √
Δ = I6° 37' 4I'' RT
D = I2° 00' 00''
R = 477.465'
T = 69.77'
L = I38.57'
E = 5.07'
DO NOT BANK

BM # 8 √
□ IN ROCK LEDGE
ELEV. 848.98'

○ DENOTES REMOVAL GOV'T. PARTICIPATION

0 20 40
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETED8.PRF DATE PLOTTED 14-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 75 OF 355 SHEETS

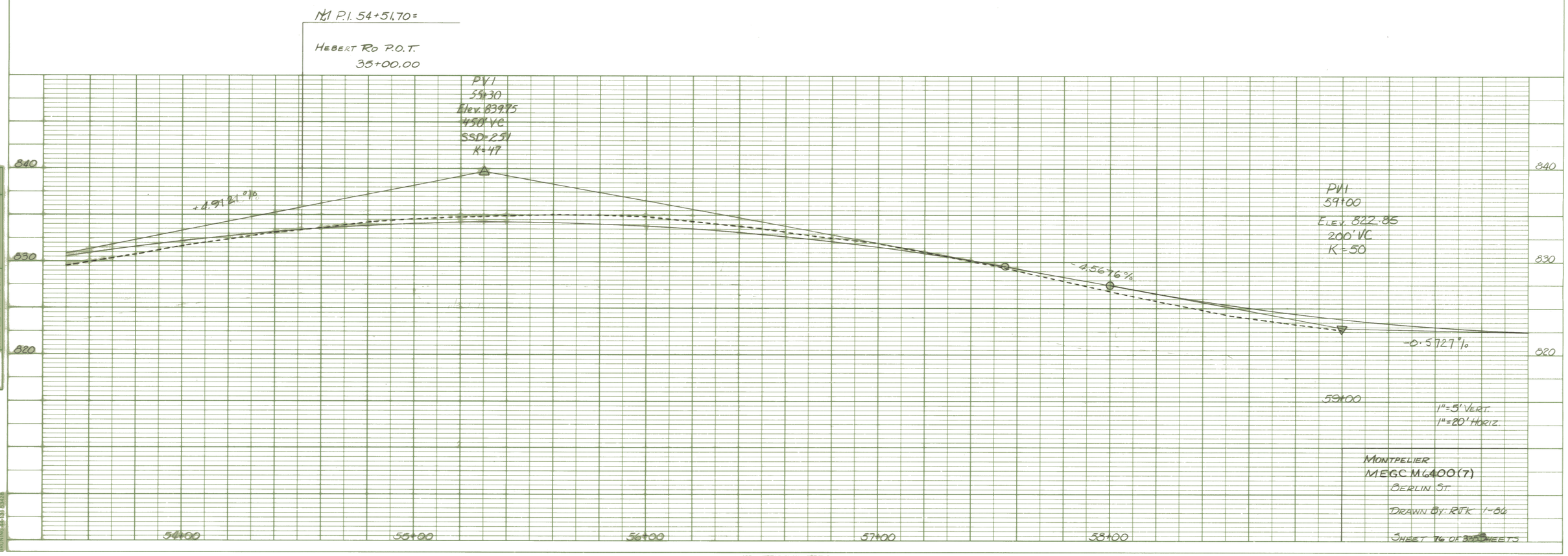


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

~~DRILLING AND BLASTING OF SOLID ROCK SUBGRADE 56+50 ~ 60+50~~

MAG 1985

√ NOTE: THE PORTION OF THE STONE WALL AT 58+00 LT. WHICH IS WITHIN THE CITY'S R.O.W. LIMITS WILL BE REMOVED AND THE STONE WILL BE STOCKPILED AT A LOCATION WHICH IS MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND THE ENGINEER. COSTS FOR REMOVAL AND ANY NECESSARY REPAIR OF THE WALL WILL BE PAID UNDER ITEM 602.20 DRY RUBBLE MASONRY. THESE COSTS WILL BE NON-GOV'T. PARTICIPATION.

√ EVERGREEN TREES

58+67 LT (4' TO 5' COLORADO BLUE SPR.) TREE TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT INGINEER.

~~TRANSPLANTING TREES~~

~~58+20 LT. (LILAC TREES)(EST.5)~~
~~58+40 LT. (LILAC TREES)(EST.5)~~

~~LILACS TO BE PLANTED ALONG SOUTHERLY PROPERTY LINE. (58+50±)~~

FINAL STATIONS DO NOT INCLUDE BREAKS FOR DRIVES

VERTICAL GRANITE CURB

LEFT	RIGHT
~~56+50 ~ 56+53~~	~~56+50 ~ 57+93~~
~~56+70 ~ 57+00~~	~~58+10 ~ 62+00~~
~~57+13 ~ 58+73~~	56+50 ~ 62+00
~~58+90 ~ 61+92~~	
56+50 ~ 56+52	
56+75 ~ 57+02	
57+15 ~ 58+75	
58+90 ~ 61+18	
61+18 ~ 62+00	

√ CONSTRUCT DRIVES

LEFT	RIGHT
√ 56+62 12'WIDE (PAVED)	√ 58+00 12'WIDE (PAVED)
√ 57+08 12'WIDE (PAVED)	
√ 58+83 17'WIDE (PAVED)	

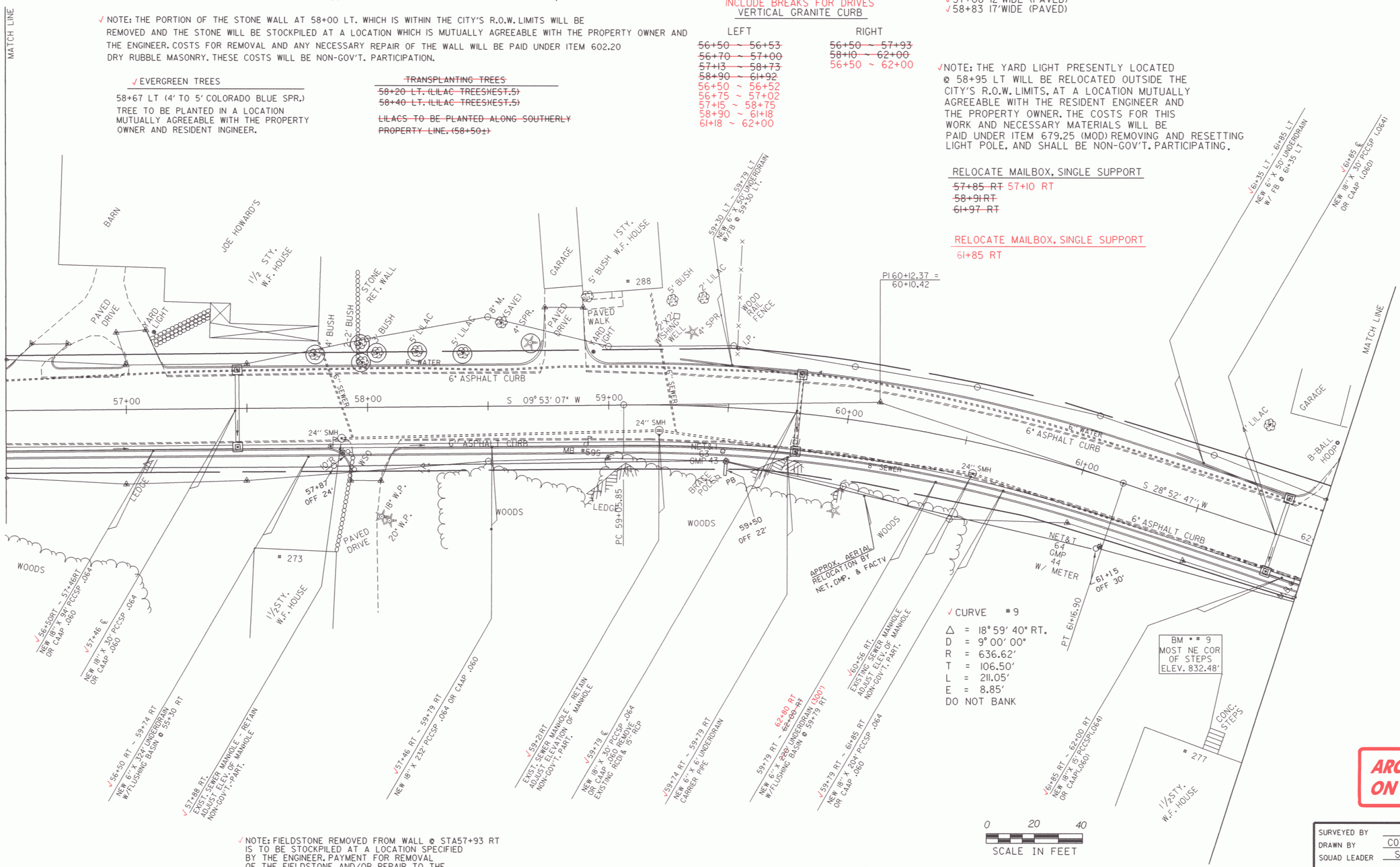
√ NOTE: THE YARD LIGHT PRESENTLY LOCATED @ 58+95 LT WILL BE RELOCATED OUTSIDE THE CITY'S R.O.W. LIMITS, AT A LOCATION MUTUALLY AGREEABLE WITH THE RESIDENT ENGINEER AND THE PROPERTY OWNER. THE COSTS FOR THIS WORK AND NECESSARY MATERIALS WILL BE PAID UNDER ITEM 679.25 (MOD) REMOVING AND RESETTING LIGHT POLE, AND SHALL BE NON-GOV'T. PARTICIPATING.

RELOCATE MAILBOX, SINGLE SUPPORT

~~57+85 RT~~ 57+10 RT
~~58+91 RT~~
~~61+97 RT~~

RELOCATE MAILBOX, SINGLE SUPPORT

61+85 RT



√ CURVE # 9
Δ = 18° 59' 40" RT.
D = 9° 00' 00"
R = 636.62'
T = 106.50'
L = 211.05'
E = 8.85'
DO NOT BANK

0 20 40
SCALE IN FEET

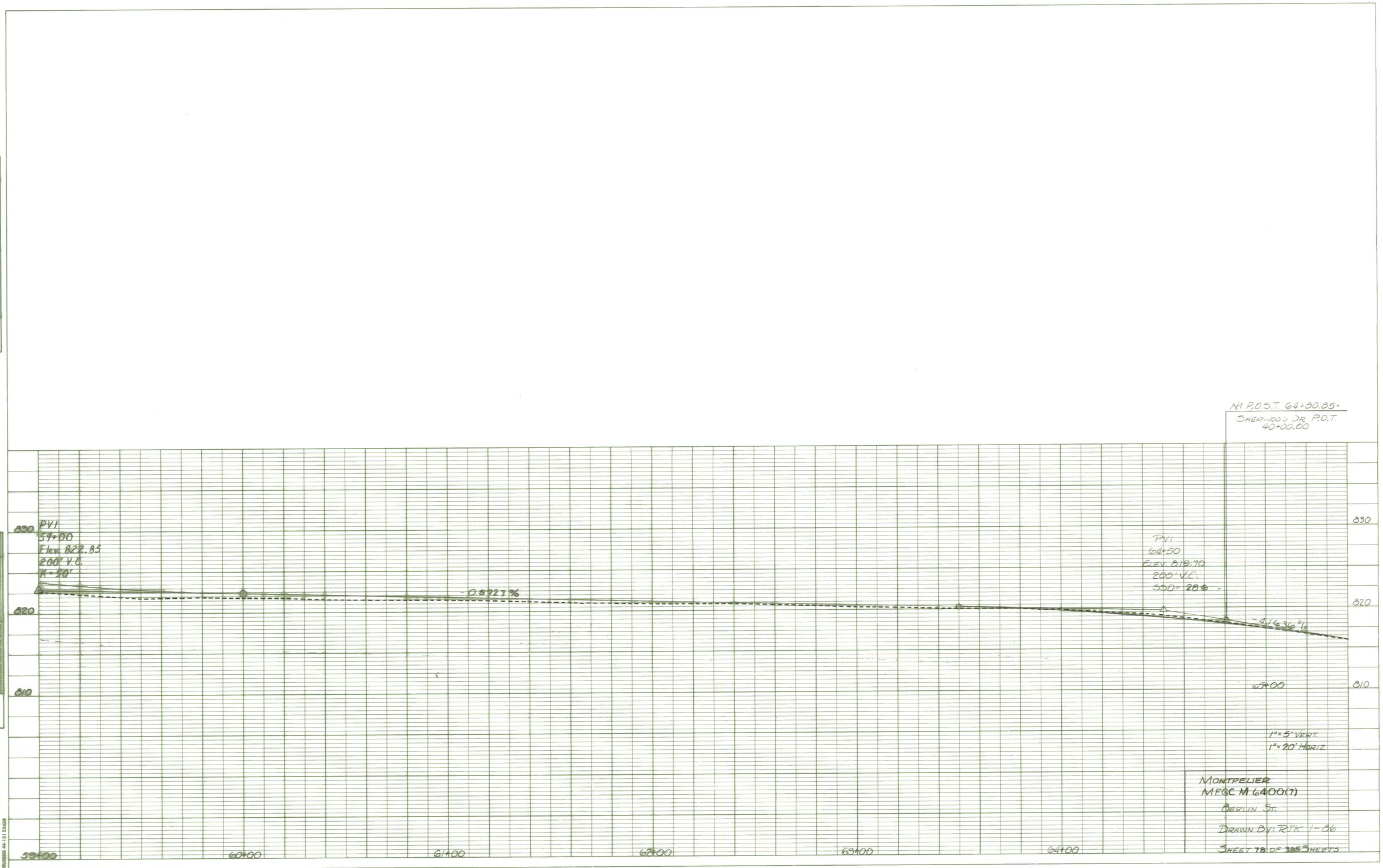
√ NOTE: FIELDSTONE REMOVED FROM WALL @ STA 57+93 RT IS TO BE STOCKPILED AT A LOCATION SPECIFIED BY THE ENGINEER. PAYMENT FOR REMOVAL OF THE FIELDSTONE, AND/OR REPAIR TO THE STONE WALL, WILL BE UNDER ITEM 602.20, DRY RUBBLE MASONRY AND SHALL BE NON-GOV'T. PARTICIPATING.

○ DENOTES REMOVAL, GOV'T. PARTICIPATION.

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1		
IPARM FILE	PETED9.PRF	DATE PLOTTED	14-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	77 OF 355 SHEETS		



BRUNING 44-131 53428

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

FINAL STATIONS DO NOT
INCLUDE BREAKS FOR DRIVES
VERTICAL GRANITE CURB

LEFT	RIGHT
64+80 ~ 67+60	62+00 ~ 67+60
~~62+06 ~ 62+43~~	~~62+00 ~ 62+11~~
~~62+55 ~ 64+17~~	~~62+31 ~ 63+31~~
~~REV 64+34 ~ REV 64+55~~	~~63+47 ~ REV 63+66~~
~~REV 64+85 ~ REV 66+29~~	~~REV 63+86 ~ REV 64+87~~
~~REV 66+48 ~ REV 67+57~~	~~REV 65+12 ~ REV 66+51~~
62+00 ~ 64+55	~~REV 66+80 ~ REV 67+60~~

~~BITUMINOUS CONC. SIDEWALK~~
~~REV 63+90 LT (3' WIDE PVT. WALK)~~

√NOTE: THE YARD LIGHT PRESENTLY LOCATED @ 62+40 LT WILL BE RELOCATED OUTSIDE THE CITY'S R.O.W. LIMITS, AT A LOCATION MUTUALLY AGREEABLE WITH THE RESIDENT ENGINEER AND THE PROPERTY OWNER. THE COSTS FOR THIS WORK AND NECESSARY MATERIALS WILL BE PAID UNDER ITEM 679.25(MOD) REMOVING AND RESETTING LIGHT POLE AND SHALL BE NON-GOV'T. PARTICIPATING.

√CONSTRUCT SIDEWALK RAMP
LEFT
64+48 (TYPE 6)

~~TRANSPLANTING TREES~~
~~65+35 RT. (2" LOCUST)~~
~~TRANSPLANT TREE IN A LOCATION OUTSIDE OF THE R.O.W. MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.~~

√CONSTRUCT DRIVES

LEFT	RIGHT
√62+00 12'WIDE (PAVED)	√62+19 20'WIDE (PAVED)
√62+50 10'WIDE (PAVED)	√63+39 16'WIDE (GRAVEL)
√REV 64+27 16'WIDE (PAVED)	√REV 63+76 16'WIDE (GRAVEL)
√REV 66+37 18'WIDE (GRAVEL)	√REV 65+00 24' WIDE (PAVED)
√REV 67+70 24'WIDE (GRAVEL)	√REV 66+66 13'WIDE (PAVED)

√DECIDUOUS TREES
63+68 ~ 64+83 RT.(1-1½" TO 2" FLOWERING DOGWOOD)
TREES TO BE PLANTED OUTSIDE OF THE R.O.W. LIMITS IN A LOCATION WITH THE PROPERTY OWNER AND RESIDENT ENGINEER

RELOCATE MAILBOX, MULTIPLE SUPPORT
~~64+52 RT~~ 64+50 RT
~~66+25 RT~~ 66+90 RT

√STONE FILL, TYPE II
FOR SLOPE STABILIZATION
RT
66+84 ~ 67+25

√CONSTRUCT APPROACH
REV 64+80.85 LT SHERWOOD DR. 28' WIDE (PAVED)

√REV 67+58.74
END PROJECT | BEGIN APPROACH

RELOCATE MAILBOX, MULTIPLE SUPPORT
64+50 RT
66+90 RT

CURVE ~~# 10~~
~~Δ = 30° 05' 50" RT.~~
~~D = 12° 00' 00"~~
~~R = 477.456'~~
~~T = 128.37'~~
~~L = 250.81'~~
~~E = 16.96'~~
~~DO NOT BANK~~

√REV CURVE # 10
Δ = 28° 48' 34" RT.
D = 12° 18' 00"
R = 465.82'
T = 119.64'
L = 234.22'
E = 15.12'
DO NOT BANK

BM # 10
RR SPIKE
IN 36" M.
ELEV. 825.99'

0 20 40
SCALE IN FEET

○ DENOTES REMOVAL, GOV'T. PARTICIPATION.
□ DENOTES REMOVAL, NON-GOV'T. PARTICIPATION.

√NOTE: CONTRACTOR TO REMOVE 42" MAPLE @ 64+00 RT. IN 4' LENGTHS AND STACK THEM OUTSIDE OF R.O.W. IN A PLACE ACCESSABLE TO THE PROPERTY OWNER.

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1		
IPARM FILE	PETED10.PRF	DATE PLOTTED	14-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	79 OF 355 SHEETS		

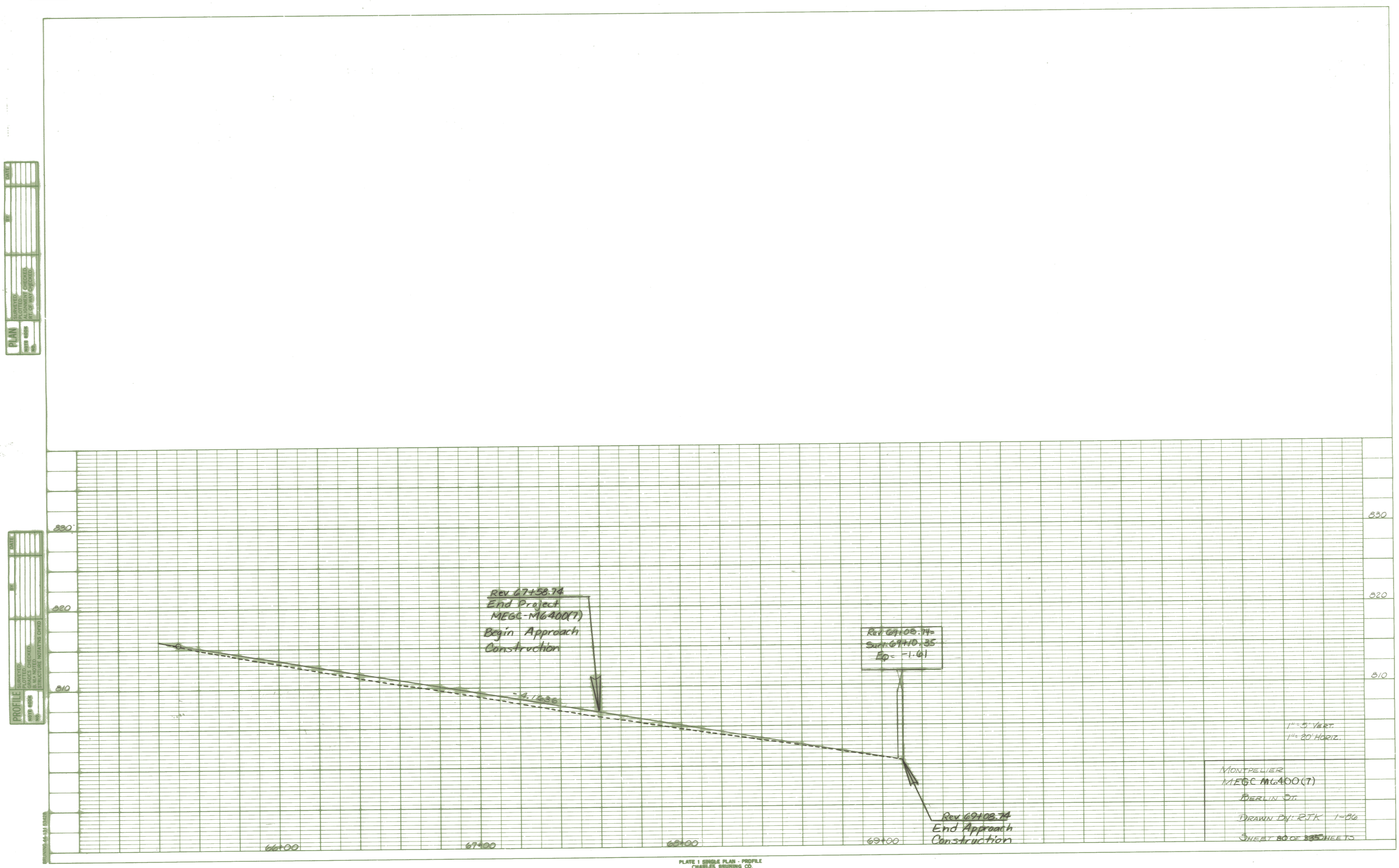
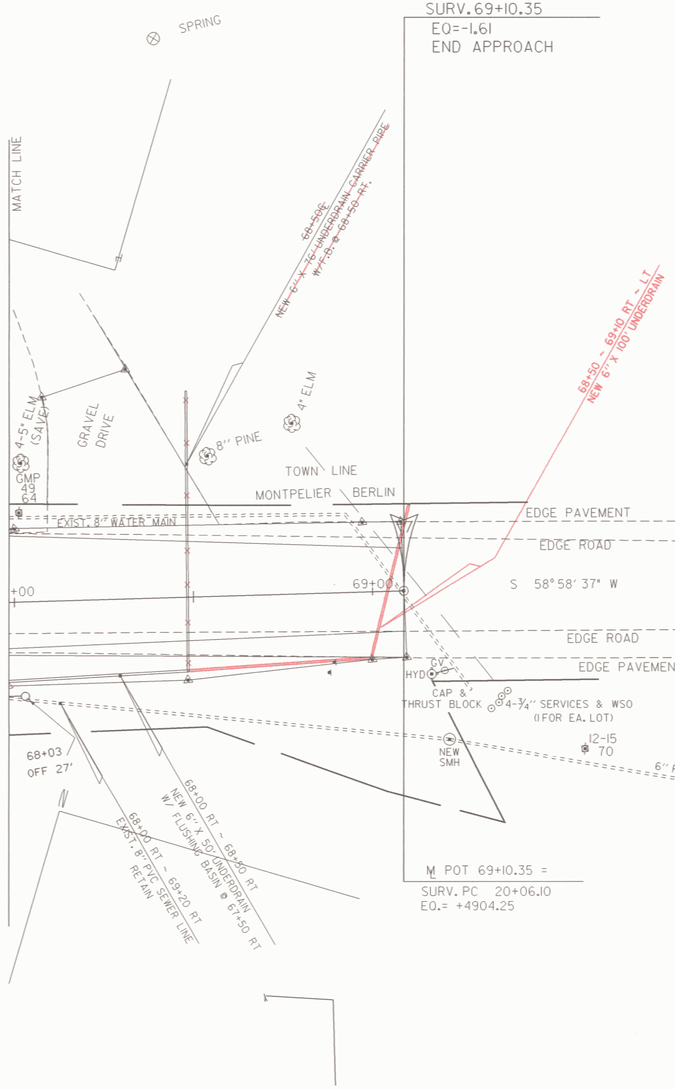


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

✓CONSTRUCT DRIVE
LEFT
68+28 24' WIDE(GRAVEL)

✓REV 69+08.74 =
SURV.69+10.35
EO=-1.61
END APPROACH



0 20 40
SCALE IN FEET

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZG0:[50,116]PETED.DGN;1
IPARM FILE PETED11.PRF DATE PLOTTED 14-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 81 OF 355 SHEETS

GENERAL NOTES

1. Existing water main shall be plugged after testing and chlorination of new water main and all service connections completed new water pipe shall be put into service only after written permission from Engineer.
2. Exploratory excavation is required to locate underground utility. Contractor shall use extreme caution to prevent damage to existing utilities.
3. Where the water main crosses over or under a storm drain, a full length of D.I. water pipe shall be placed with the mid-length centered under the storm drain.
4. Existing curb stops and hydrants that are to be abandoned shall be carefully removed and stockpiled at the direction of the City and become property of the Owner. (PAYMENT TO BE SUBSIDIARY TO ITEMS 629.25 & 629.30)
5. Listing of nipples, fittings adaptors, etc. is for the convenience of the Contractor only. Additional material may be required. Solid sleeve couplings will be required to connect previously installed pipe with new pipe.
6. Minimum clearance between new water mains and all existing utilities, except sewers to be 6" at crossing locations.
7. All buried fittings must be blocked in accordance with DETAILS SHEET 19 OF 19. (100 OF 335) Thrust Blocks Subsidiary to Item 629

LOCAL VALVE OPERATION

1. Existing and proposed gate valves open left or counterclockwise.
2. Existing and proposed curb stops open left or counterclockwise.
3. The Montpelier Water Department will assist in the location of existing valves and blow-offs for these operations. All customers to be temporarily out of water will be notified 24 hours prior to the activity by the Contractor. At no time shall a customer be without water for more than four hours.
4. All interconnections into the existing system can only be made with the written permission of the Engineer.
5. THE MONTPELIER WATER DEPARTMENT WILL ASSIST IN OPERATION OF ALL VALVES.
6. WHEN 5' MIN. CAN NOT BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAIN, INSULATE WITH 2" RIGID INSULATION. PAYMENT TO BE SUBSIDIARY TO ITEM 629.24
7. ALL WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH REVISED AWWA STANDARD C651.

ABANDONMENT OF EXISTING MAIN: AFTER THE NEW MAIN HAS BEEN TESTED AND DISINFECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CUT, PLUG, AND ABANDON THE EXISTING MAIN. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSAL OF ALL PIPE THAT WOULD BE IN CONFLICT WITH THE ROADWAY AND DRAINAGE WORK.

ALL CONTACT BETWEEN CITY & CONTRACTOR TO BE VIA RESIDENT ENGINEER

CURVE # 1
Δ = 2° 41' 36" LT.
D = 1°30'
R = 3819.72'
T = 89.79'
L = 179.56'
E = 1.06'

Rev.	Description	By	Date
4	RELOCATE WATER MAIN	AWH	3 JAN 91
3	HYDRANT WATERLINE EXT.	KGF	6/3/90
2	GENERAL NOTES/MAP/PIPE	LBL	19 MAR 90
1	GENERAL NOTES	LBL	5 JAN 90

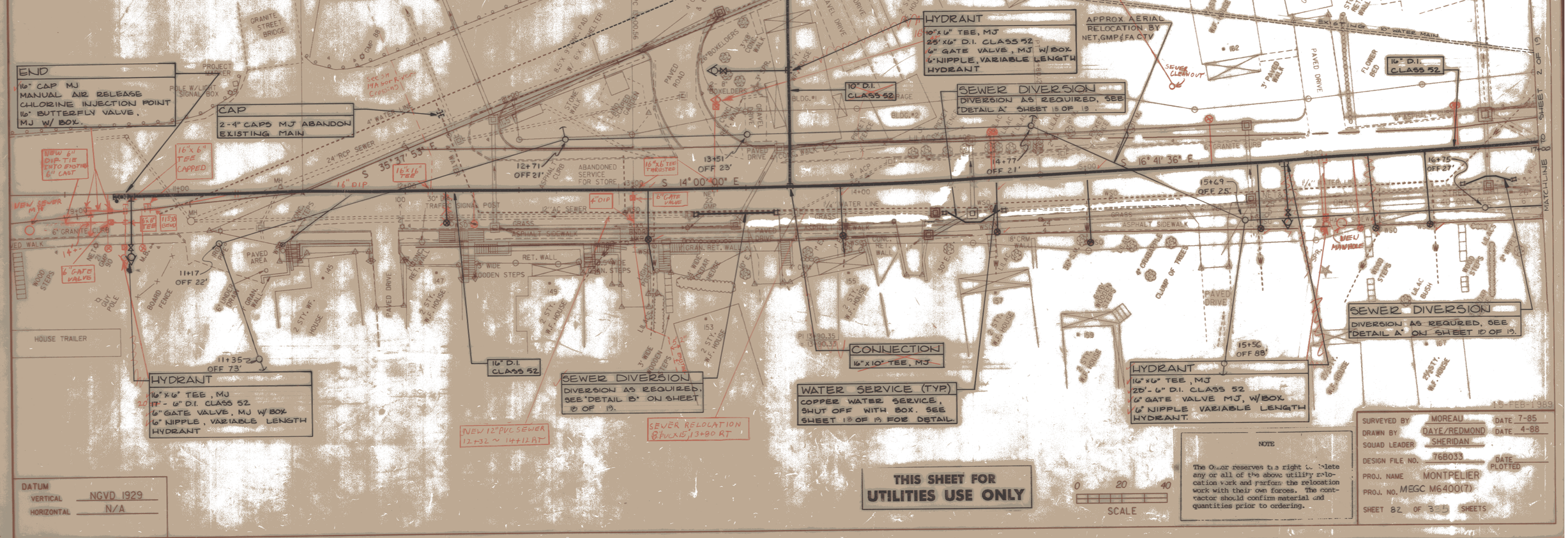
CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 11+57 TO STA. 17+00
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.DUESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.DUESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989
Sheet	1 of 19
D	618040-01

LOCATION MAP





DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

THIS SHEET FOR UTILITIES USE ONLY

0 20 40
SCALE

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	15-FEB-1989
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET 82 OF 335 SHEETS			

CONSTRUCT RETAINING WALL
(W/HANDRAIL)

LT
18+70 ~ 18+96
19+00 ~ 19+20

CONSTRUCT CONCRETE STAIRWAY
W/HANDRAILS (4' WIDE)

LT
18+98
19+80 ~ 20+59

Rev.	Description	By	Date
1	VALVE / HYDRANT LOCATION	LBL	9 MAR 88

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 17+00 TO STA. 21+00
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D. NESBITT
Proj. Designer	L.B. LACKEY
Drawn By	K.G. FLANDERS
Checked By	T.D. NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 2 of 19
D 618040 - 02

N MAG 1985

W P.O.T. 19+34.02 =
S P.O.T. 5+00.00
Δ = 85° 03' 35" RT

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF W/ BOX. SEE SHEET 18 OF 19 FOR DETAIL.

SEWER DIVERSION
DIVERSION AS REQUIRED, SEE "DETAIL A" AND "DETAIL B" SHEET 18 OF 19

SEWER DIVERSION
DIVERSION AS REQUIRED, SEE "DETAIL B" SHEET 18 OF 19.

16" D.I. CLASS 52

16" D.I. CLASS 52

ADJ ELEV OF SEWER CLEANOUT

SEWER DIVERSION
DIVERSION AS REQUIRED, SEE "DETAIL A", SHEET 18 OF 19.

6" GATE VALVE AND WET TAP TO EXISTING 10" CAST IRON WATER MAIN

ABANDON HYDRANT
REMOVE EXISTING HYDRANT CUT BELOW GRADE, CAP AND RESURFACE TO GRADE.

B.M. # 2
□ ON S.E. COR. OF DI
ELEV. 574.82

VALVE
16" BUTTERFLY VALVE MJ W/BOX.

APPROX. AERIAL RELOCATION BY NET, GMP & FACTV

HYDRANT
16" x 6" TEE, MJ
18'-6" D.I. CLASS 52
6" GATE VALVE, MJ W/BOX
HYDRANT

CAP
2-8" CAPS MJ, ABANDON EXISTING MAIN

INTERCONNECTION
8"x8" TEE, MJ
8" NIPPLE, VARIABLE LENGTH
8"-1/4 BEND, MJ
42'-8" D.I. CLASS 52
8" GATE VALVE, MJ W/BOX
8" NIPPLE VARIABLE LENGTH
16"x8" TEE, MJ
8" FLEXIBLE COUPLING, AS REQUIRED

MATCHLINE STA 18+00 SHEET 19 OF 19
MATCHLINE STA 21+00 SHEET 19 OF 19

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

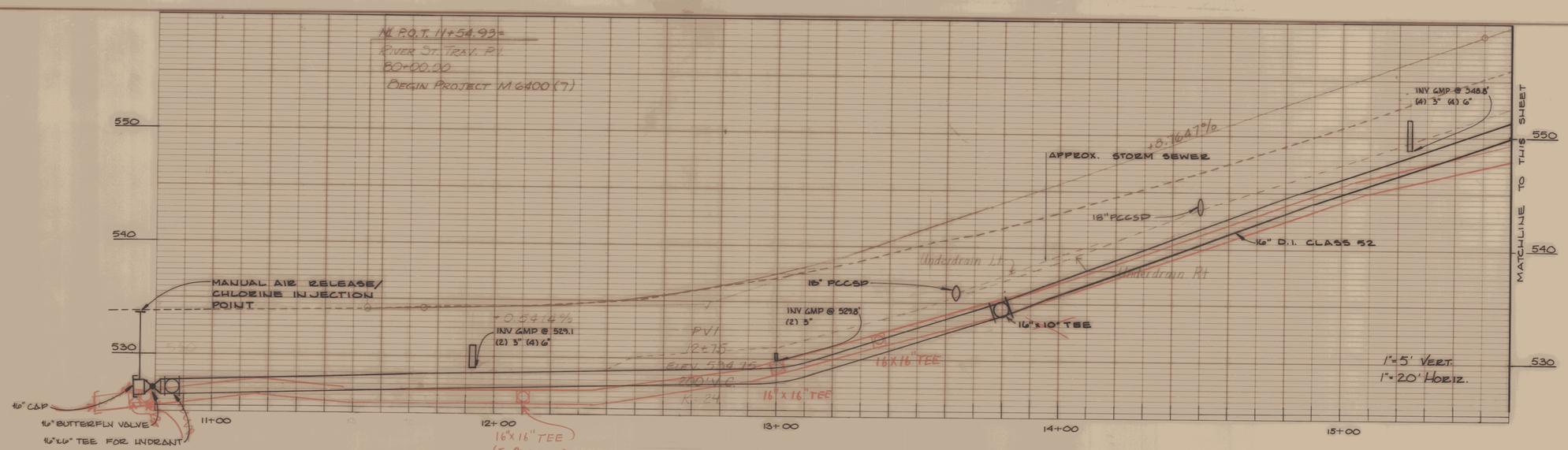
0 20 40
SCALE

NOTE

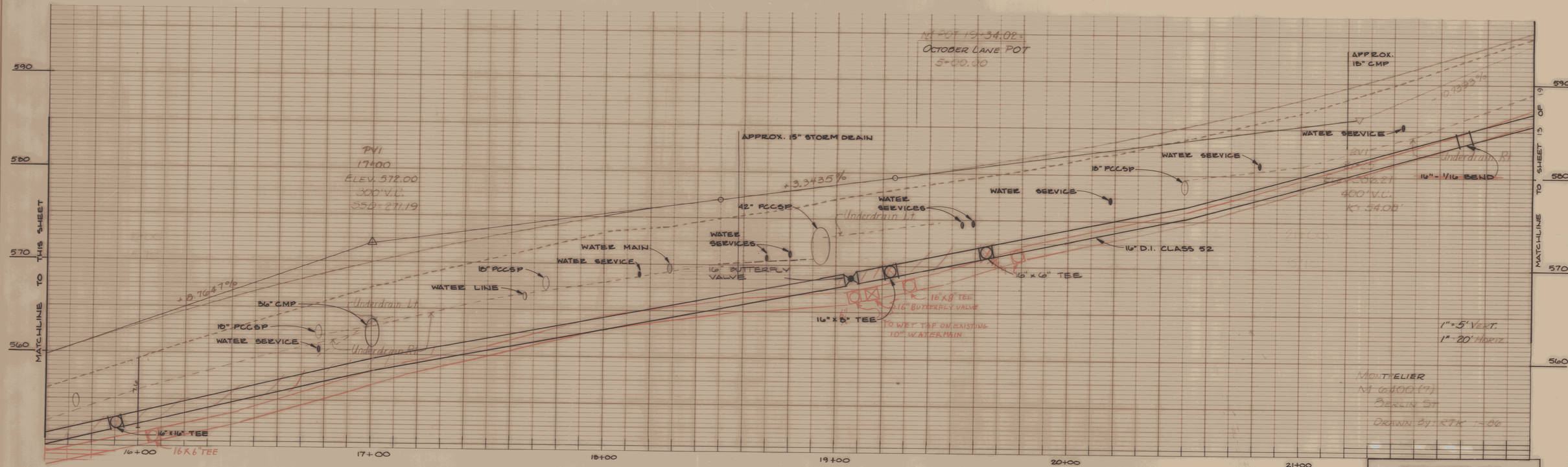
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

THIS SHEET FOR UTILITIES USE ONLY

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	4-7-88
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET 83 OF 335 SHEETS			



PROFILE
SCALE: HORZ. 1"=20'
VERT. 1"=5'



PROFILE
SCALE: HORZ. 1"=20'
VERT 1"=5'

THIS SHEET FOR
UTILITIES USE ONLY

Rev.	Description	By	Date
2	LOCATE GMP DUCTS	AWH	1-3-91
1	EXTEND MAIN @ 11+00	KEF	7-24-90

SHEET 84 OF 335

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN PROFILE
MONTPELIER, VERMONT

Dufresne-Henry
58 East State Street
Montpelier, VT 05602

Client No. 618040 | Proj. Mgr. TDH | Date 4-14-89 | B | No. 12

BRUNING 44 232 7435?

Rev.	Description	By	Date
2	VALVE STA. 25+66	LBL	3/19/90
1	HYDRANT 25+55	LBL	1/5/89

CITY OF MONTPELIER

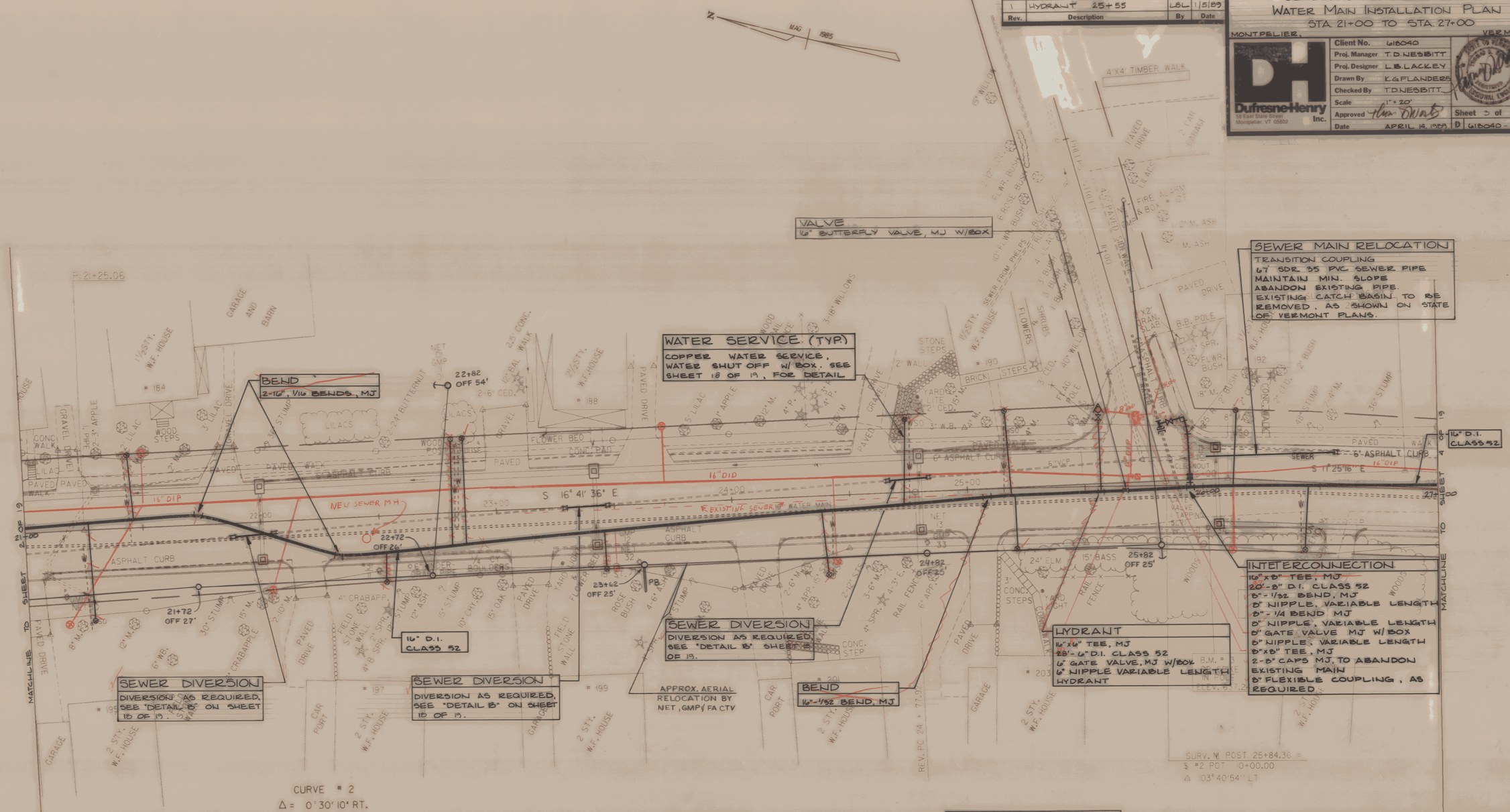
BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA 21+00 TO STA. 27+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D. NESBITT
Proj. Designer	L.B. LACKEY
Drawn By	K.G. FLANDERS
Checked By	T.D. NESBITT
Scale	1" = 20'
Approved	[signature]
Date	APRIL 14, 1989

Sheet 3 of 19
D 618040-03



THIS SHEET FOR UTILITIES USE ONLY

REV. CURVE #3
Δ = 5°16'20" RT
D = 2°00'00"
R = 2864.79'
T = 131.90'
L = 263.61'
E = 3.03'

NOTE

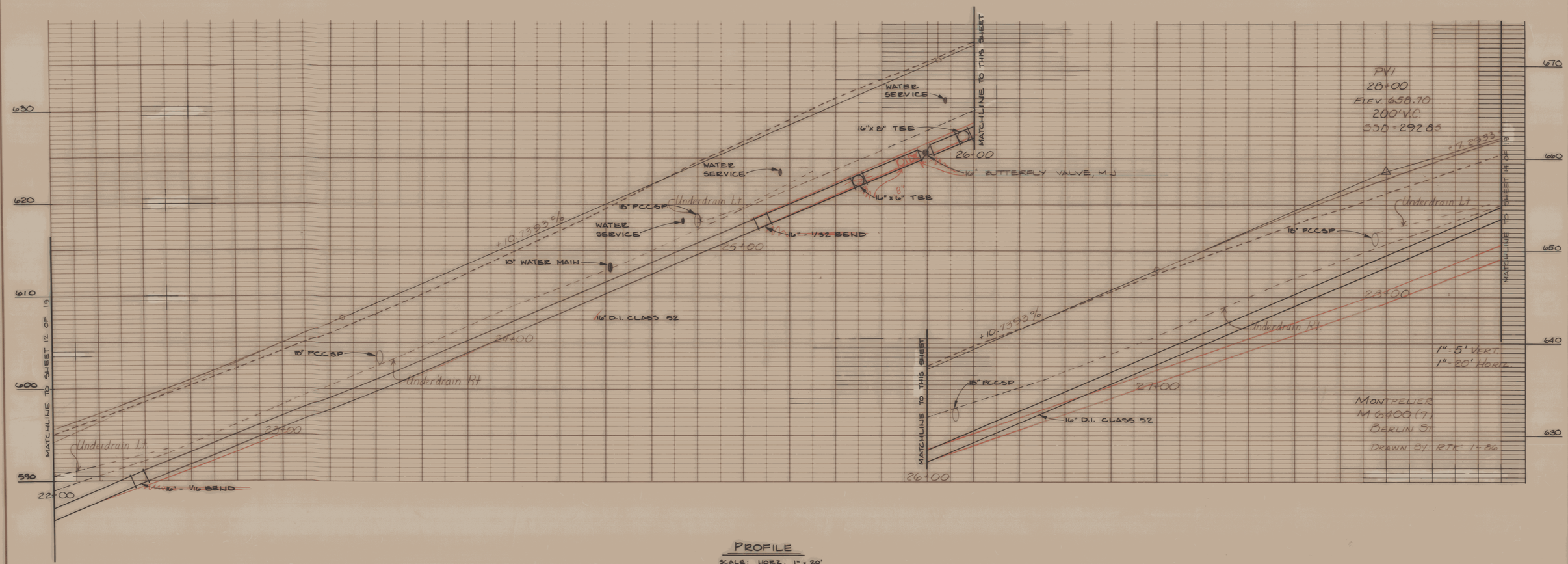
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

0 20 40
SCALE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET 85 OF 335 SHEETS			



PROFILE

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

THIS SHEET FOR UTILITIES USE ONLY

SHEET 86 OF 335

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN PROFILE
MONTPELIER, VERMONT

Dufresne-Henry
58 East State Street
Montpelier, VT 05602

Client No. 618040	Proj. Mgr. T.D.N.	Date 4-14-89	R	No. 13

BRUNING 44 232 74357

Rev.	Description	By	Date
2	VALVE 29+65	LBL	3/19/90
1	VALVE 30+10	LBL	1/5/90

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 27+00 TO STA. 33+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D.NESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.D.NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 4 of 19

D 618040-04

MAG 1985

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF W/ BOX. SEE SHEET 18 OF 19 FOR DETAIL.

SEWER DIVERSION
DIVERSION AS REQUIRED. SEE "DETAIL A" SHEET 18 OF 19.

VALVE
6" BUTTERFLY VALVE, MJ, W/BOX.

SEWER DIVERSION
DIVERSION AS REQUIRED. SEE "DETAIL A" SHEET 18 OF 19.

SEWER DIVERSION
DIVERSION AS REQUIRED SEE "DETAIL A" SHEET 18 OF 19.

SEWER DIVERSION
DIVERSION AS REQUIRED. SEE "DETAIL A" SHEET 18 OF 19.

HYDRANT
16" x 6" TEE, MJ
20'-6" D.I. CLASS 52
6" GATE VALVE, MJ, W/BOX
6" NIPPLE, VARIABLE LENGTH
HYDRANT

INTERCONNECTION
6" x 6" TEE, MJ
6" x 5" REDUCER, MJ
5" NIPPLE, VARIABLE LENGTH
5" - 1/4 BEND, MJ
65'-5" D.I. CLASS 52
5" GATE VALVE, MJ W/BOX
5" NIPPLE, VARIABLE LENGTH
16" x 5" TEE, MJ
5' FLEXIBLE COUPLING, AS REQUIRED.

CAP
(2) 6" CAPS, MJ, ABANDON EXISTING MAIN.

SURV. PI 30+43.29 = 30+43.24

REV. PI 30+42.81 = 30+42.78
Δ 9°46'48" RT

REV. CURVE # 4
Δ = 2°34'06" RT.
D = 1°00'00"
R = 5729.58'
T = 128.44'
L = 256.83'
E = 1.44'

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

THIS SHEET FOR UTILITIES USE ONLY

15-FEB-1989

0 20 40
SCALE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		

SHEET 87 OF 335 SHEETS

Rev.	Description	By	Date
1	HYDRANT 34+85	LBL	1/5/89

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 33+00 TO STA. 39+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
98 East State Street
Montpelier, VT 05602

Client No.	618090
Proj. Manager	T.D. NESBITT
Proj. Designer	L.B. LACKEY
Drawn By	K.G. FLANDERS
Checked By	T.D. NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 5 of 19

D 618090 - 05

N MAG 1985

SEWER DIVERSION
DIVERSION AS REQUIRED, SEE "DETAIL A" SHEET 18 OF 19.

SEWER DIVERSION
DIVERSION AS REQUIRED, SEE SHEET 18 OF 19.

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF WITH BOX. SEE SHEET 18 OF 19 FOR DETAIL.

HYDRANT
16"x6" TEE, MJ
23'-6" D.I. CLASS 52
6" GATE VALVE, MJ W/BOX
6" NIPPLE, VARIABLE LENGTH
HYDRANT

FUTURE CONNECTION
16"x8" TEE, MJ
8" NIPPLE, VARIABLE LENGTH
8" GATE VALVE, MJ W/BOX
27'-8" D.I. CLASS 52
MANUAL AIR RELEASE/ DECHLORINATION POINT
8" CAP, MJ

APPROX. AERIAL RELOCATION BY NET, GMP & FACTV

BM # 5
RR SPIKE IN POLE
ELEV. 737.74

MATCHLINE TO SHEET 4 OF 19

MATCHLINE TO SHEET 6 OF 19

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

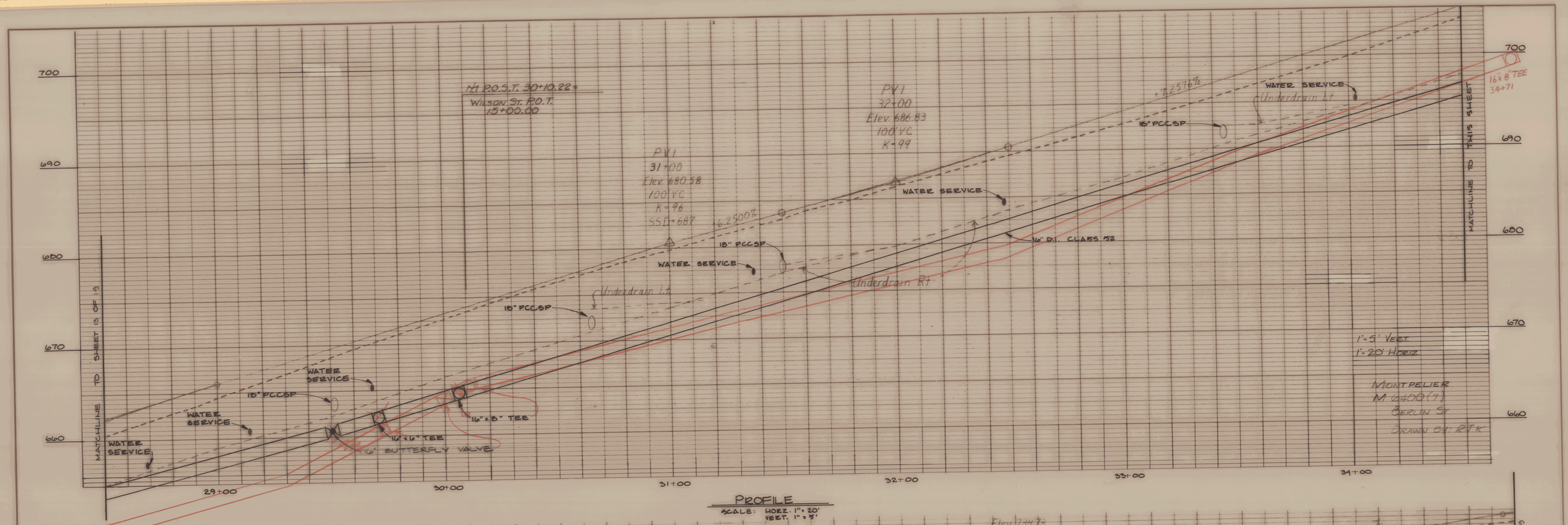
THIS SHEET FOR UTILITIES USE ONLY

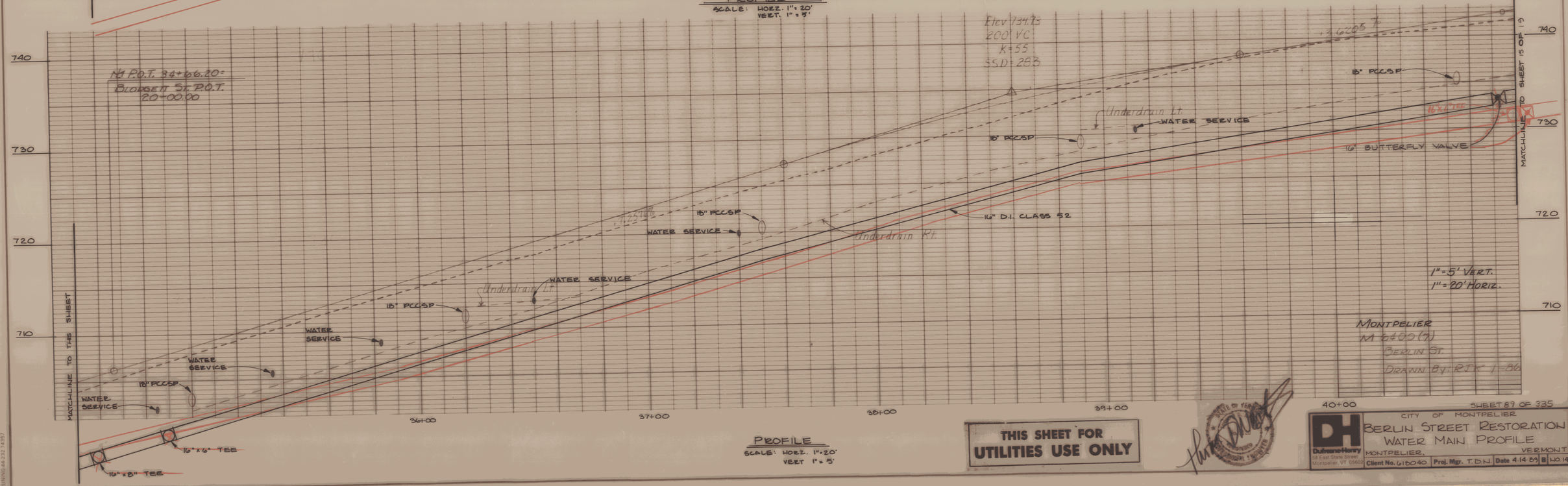
NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

0 20 40
SCALE

15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET	88 OF 335 SHEETS		





THIS SHEET FOR UTILITIES USE ONLY

SHEET 89 OF 335

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN PROFILE
MONTPELIER, VERMONT

Dufresne-Henry
58 East State Street
Montpelier, VT 05602

Client No. 618040 | Proj. Mgr. T.D.N. | Date 4.14.89 | B | NO. 14

Rev.	Description	By	Date
1	VALVE/HYD. LOCATION	LBL	3/9/90

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 39+00 TO STA. 45+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D.NESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.D.NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 19, 1989
Sheet	6 of 19
D	618040-06

STATE OF VERMONT — THOMAS D. NESBITT — No. 5577 — REGISTERED PROFESSIONAL ENGINEER

MAG 1985

REV CURVE # 5
△ = 3°24'07" LT.
D = 1°00'00"
R = 5729.58'
T = 170.15'
L = 340.21'
E = 2.53

HYDRANT
16"x6" TEE, MJ
16'-6" D.I. CLASS 52
6" GATE VALVE, MJ W/BOX
6" NIPPLE, VARIABLE LENGTH
HYDRANT

VALVE
16" BUTTERFLY VALVE, MJ W/BOX

FUTURE CONNECTION
16"x8" TEE, MJ
8" NIPPLE, VARIABLE LENGTH
8" GATE VALVE, MJ W/BOX
8" NIPPLE VARIABLE LENGTH
8"-1/16 BEND, MJ
55' LENGTH 8" D.I. CLASS 52
MANUAL AIR RELEASE/CHLORINE INJECTION POINT
8" CAP, MJ

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF WITH BOX SEE SHEET 18 OF 19 FOR DETAIL

APPROX. AERIAL RELOCATION BY NET, GMP & FA CTV

MATCHLINE TO SHEET 5 OF 19
MATCHLINE TO SHEET 7 OF 19

SURV PI 39+73.60 = 39+73.49
REV PI 39+73.19 = 39+73.10
SURV PI 41+57.15 = REV PI 41+43.25
SURV PI 25+00.00 = REV PC 44+26.59
△ = 119°51'47" LT

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

THIS SHEET FOR UTILITIES USE ONLY

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

0 20 40
SCALE

15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET	90 OF 335 SHEETS		

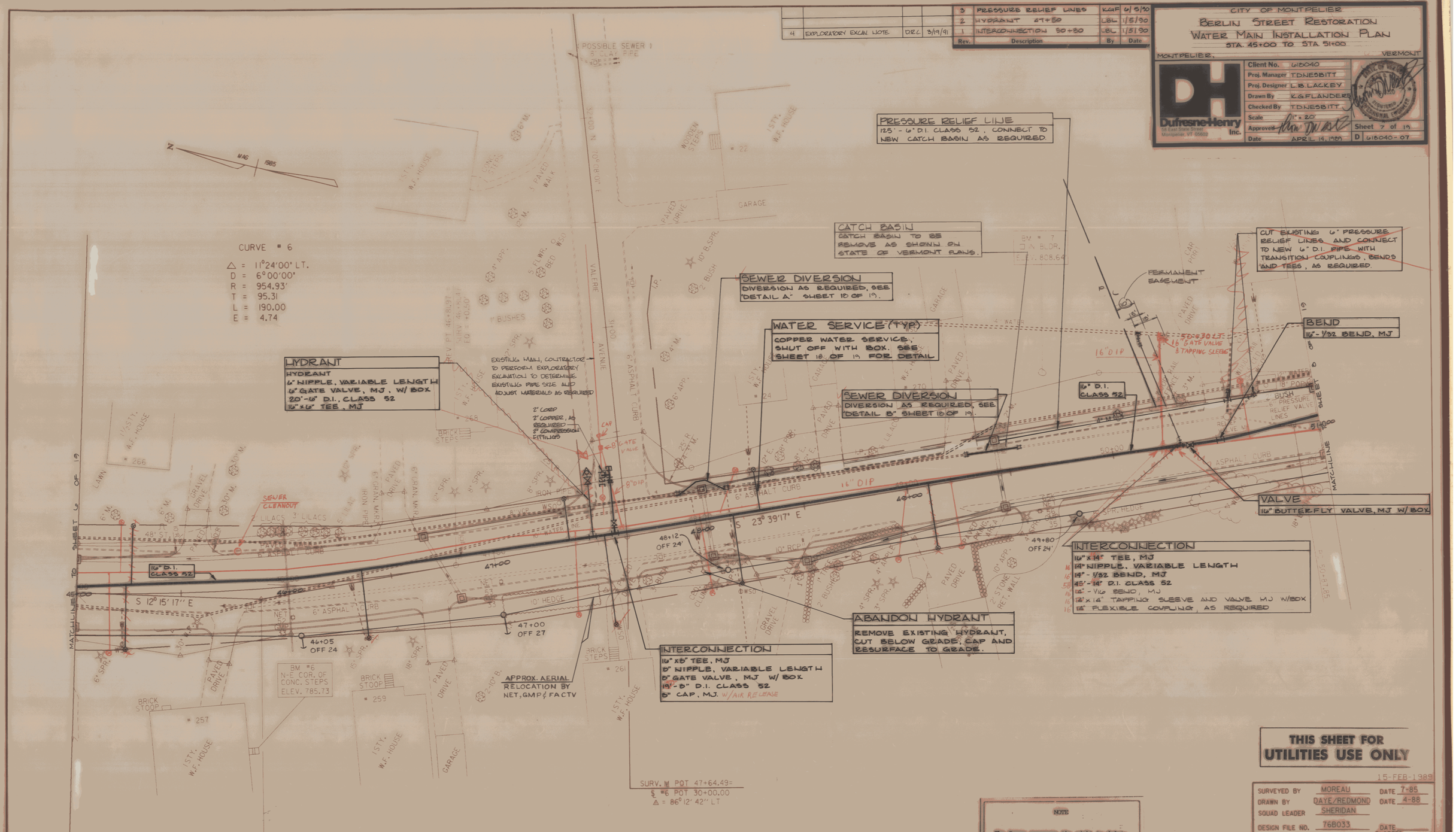
Rev.	Description	By	Date
3	PRESSURE RELIEF LINES	KGF	6/5/90
2	HYDRANT 47+50	LBL	1/5/90
1	INTERCONNECTION 50+30	LBL	1/5/90
4	EXPLORATORY EXCAV. NOTE	DRC	3/19/91

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 45+00 TO STA 51+00
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D.NESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.D.NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 7 of 19
D 618040-07



THIS SHEET FOR UTILITIES USE ONLY

15-FEB-1989

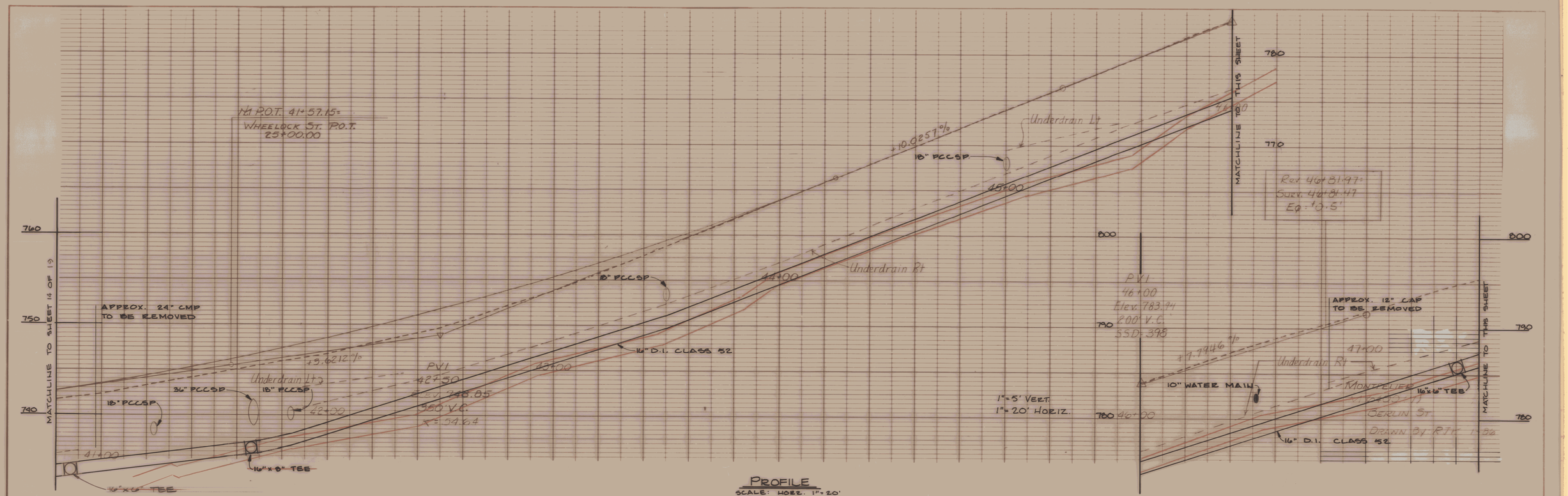
SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET	91 OF 335 SHEETS		

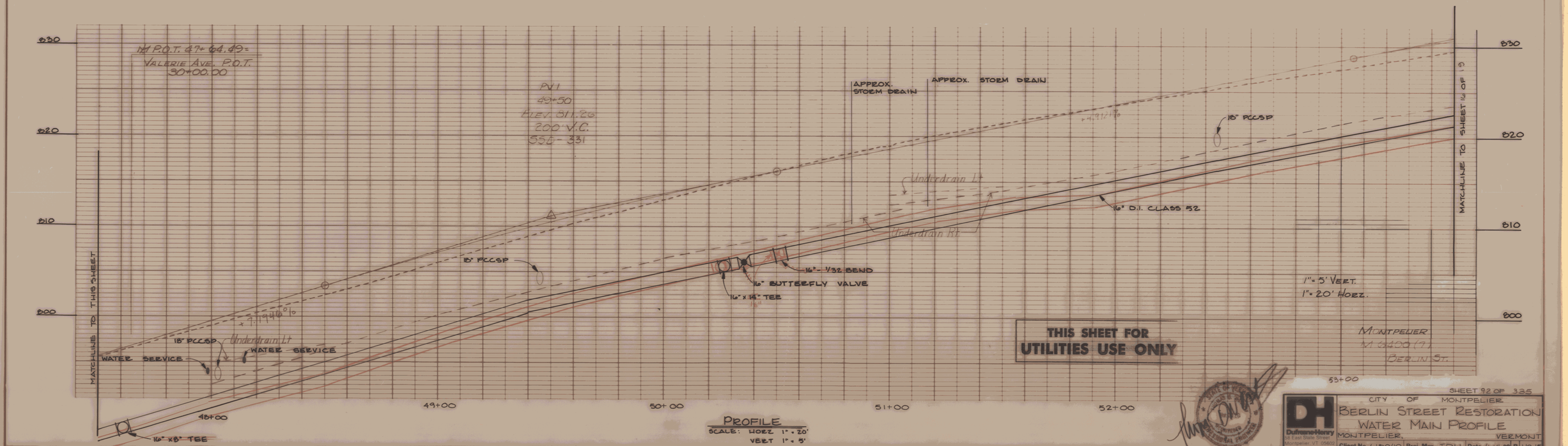
NOTE

The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

0 20
SCALE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A





SHEET 92 OF 335

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN PROFILE

MONTPELIER, VERMONT

DuFresne-Henry
58 East State Street
Montpelier, VT 05602

Client No. 618040 | Proj. Mgr. T.D.N. | Date 4-14-89 | B | No. 15

Rev.	Description	By	Date
3	REMOVE SERVICE	LBL	10/2/90
2	HEBERT ROAD FORCE MAIN	KAF	6/5/90
1	ABANDON NOTE	LBL	3/19/90

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 51+00 TO STA. 56+50

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D.NESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.D.NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 19, 1989
Sheet	8 of 19
D	618040-08

N 49°37'39" E

MAG 1985

CONTRACTOR TO VERIFY LOCATION OF EXISTING FORCE MAIN AND ENSURE A 10' SEPARATION BETWEEN ALL SEWER AND WATER MAINS.

ABANDON
2-6" CAPS, MJ. ABANDON EXISTING 6" MAIN.

20"x12" TAPP
12" GATE VALVE

12" GATE VALVE

EXISTING 4" FORCE MAIN

INTERCONNECTION
16"x16" TEE, MJ
30'-16" D.I. CLASS 52
16"-1/16 BEND, MJ
102'-16" CLASS 52
16"x16" TEE, MJ
16" NIPPLE VARIABLE LENGTH
16"x12" REDUCER, MJ
12" NIPPLE, VARIABLE LENGTH
12" BUTTERFLY VALVE, MJ W/BOX
12" NIPPLE, VARIABLE LENGTH
12"x12" TEE, MJ
12" NIPPLE, VARIABLE LENGTH
12" 1/4 BEND, MJ
19'-12" D.I. CLASS 52
20"x12" TAPPING SLEEVE, & VALVE MJ W/BOX
2-12" CAPS, MJ ABANDON EXISTING MAIN
16" FLEXIBLE COUPLING, AS REQUIRED.
12" FLEXIBLE COUPLING, AS REQUIRED

ABANDON HYDRANT
REMOVE EXISTING HYDRANT, CUT BELOW GRADE AND RE-SURFACE GROUND TO GRADE.

NEW 6 PVC SEWER - 54+40 RT - 55+00 ET (For Future Use)

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF WITH BOX. SEE SHEET 18 OF 19 FOR DETAIL

VALVE
16" BUTTERFLY VALVE, MJ W/BOX

HYDRANT
16"x6" TEE, MJ
14'-6" D.I. CLASS 52
6" GATE VALVE, MJ W/BOX
6" NIPPLE, VARIABLE LENGTH
HYDRANT

APPROX. AERIAL RELOCATION BY NET, GMP & FACTV

16" D.I. CLASS 52

16" D.I. CLASS 52

PI 51+58.83 = 51+57.80

PC 53+81.92

PI 54+70.33

PI 55+40.49

TRAV. PI 35+74.5

MATCHLINE TO SHEET 7 OF 19

MATCHLINE TO SHEET 9 OF 19

THIS SHEET FOR UTILITIES USE ONLY

CURVE #7
Δ = 16°54'43" RT.
D = 12°00'00"
R = 477.465
T = 70.98
L = 140.93
E = 5.25

CURVE #8
Δ = 16° 37' 41" RT
D = 12° 00' 00"
R = 477.465'
T = 69.77'
L = 138.57'
E = 5.07'

BM #8
□ IN ROCK LEDGE
ELEV. 848.98'

0 20 40
SCALE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET 93 OF 335 SHEETS			

Rev.	Description	By	Date

CITY OF MONTPELIER

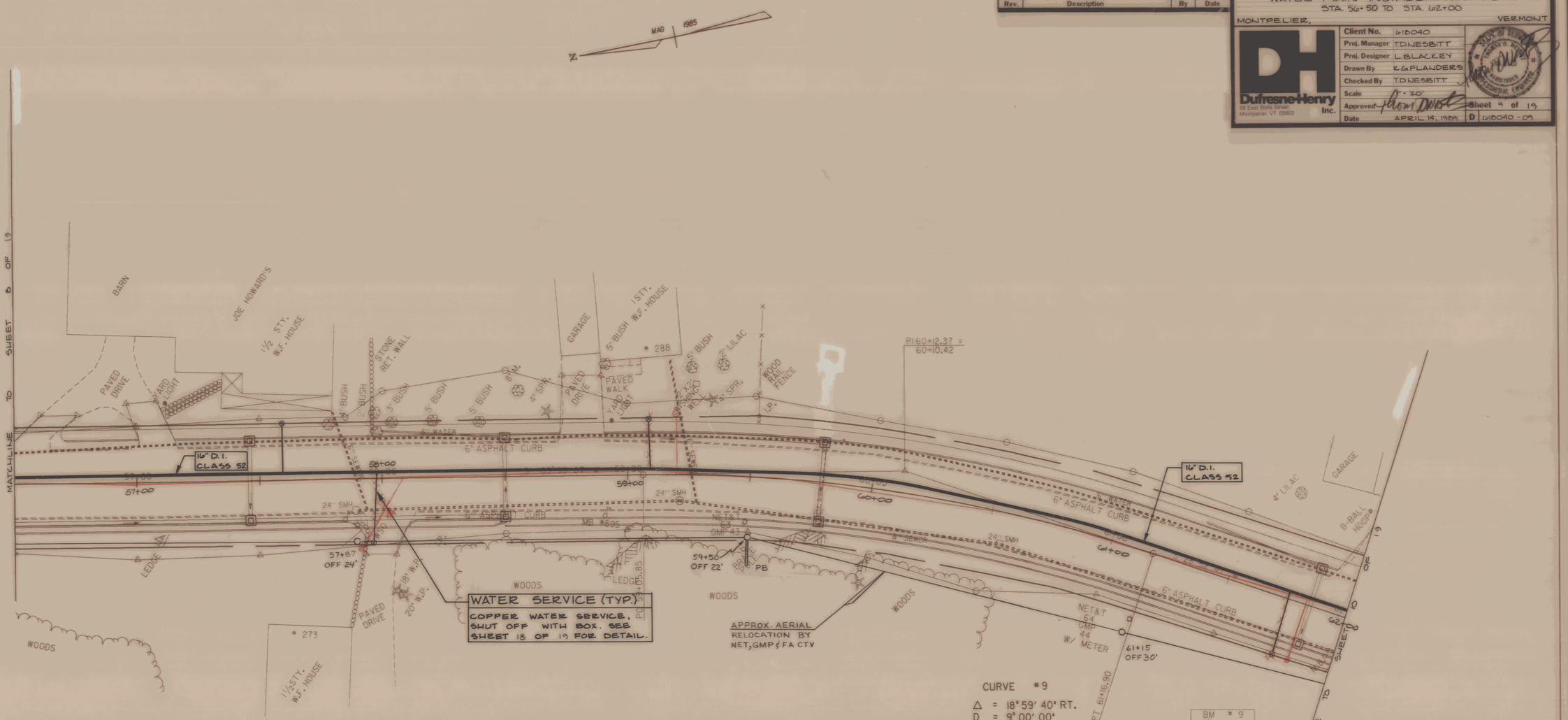
BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 56+50 TO STA. 62+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.D.NESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.D.NESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1988
Sheet	9 of 19
D	618040-09

MAG 1985



CURVE #9
- Δ = 18° 59' 40" RT.
- D = 9° 00' 00"
- R = 636.62'
- T = 106.50'
- L = 211.05'
- E = 8.85'

THIS SHEET FOR UTILITIES USE ONLY

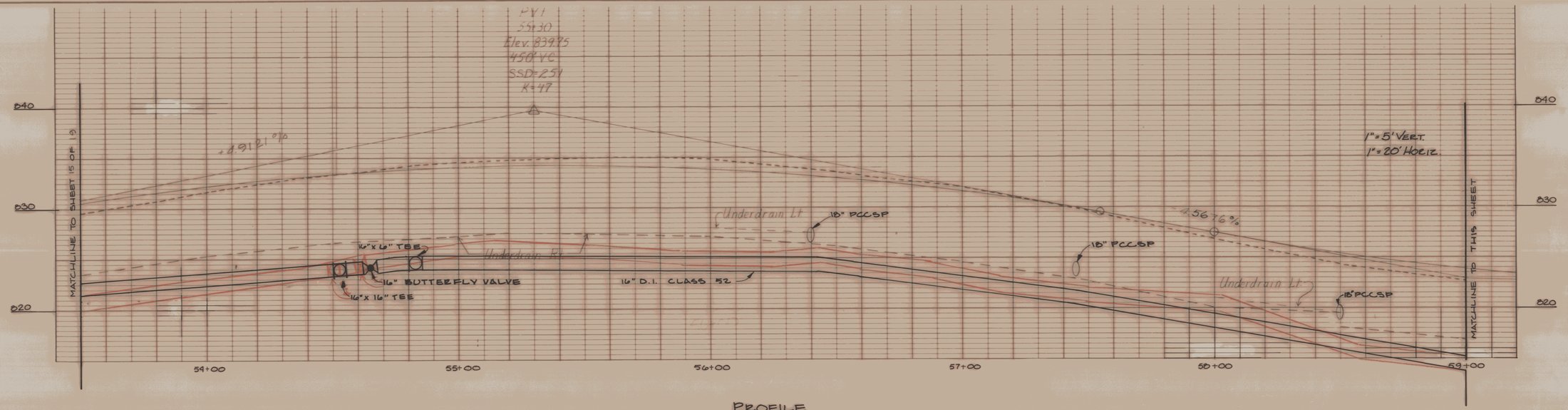
15-FEB-1989

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET 94 OF 335 SHEETS			

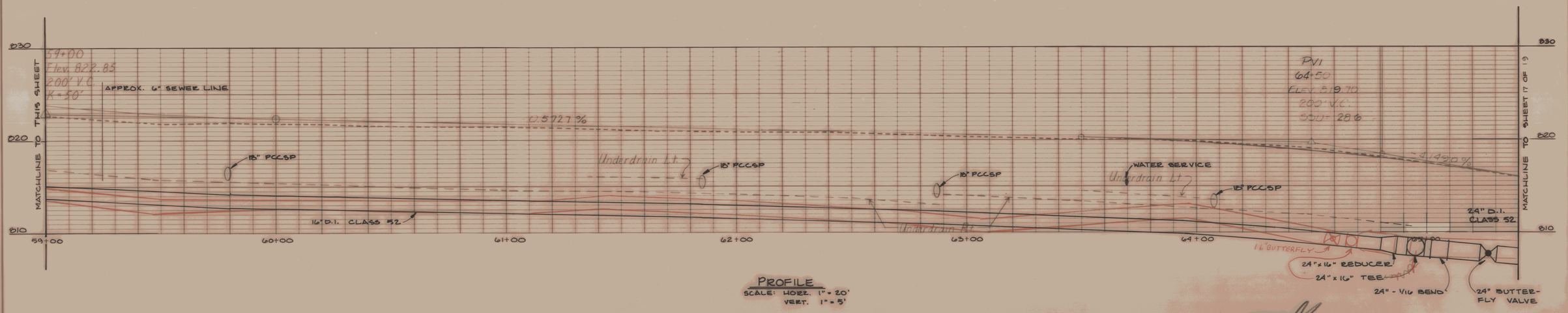
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

0 20 40
SCALE



PROFILE
SCALE: HORZ 1"= 20'
VERT 1"= 5'



PROFILE
SCALE: HORZ. 1"= 20'
VERT. 1"= 5'

THIS SHEET FOR
UTILITIES USE ONLY

STATE OF VERMONT
No. 8120
REGISTERED PROFESSIONAL ENGINEER

SHEET 95 OF 335

Dufresne-Henry
58 East State Street
Montpelier, VT 05602

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN PROFILE
MONTPELIER, VERMONT

Client No. 618040 | Proj. Mgr. T.D.N. | Date 4-14-89 | B | NO. 16

Rev.	Description	By	Date
2	ADDITIONAL SERVICES	LBL	10/12/90
1	WORD NEW/HYD. LOCATION	LBL	3/19/90

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA 62+00 TO STA. 68+00

MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.DNESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.DNESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 10 of 19

D 618040-10

W POST 64+80.85 =
$ #8 POT 40+00.00
Δ = 97° 33' 17" LT

REV PI 64+85.36 =
REV 64+80.30

SURVEY PI 65+14.56 =
64+98.63

ABANDON HYDRANT
REMOVE EXISTING HYDRANT, CUT BELOW GRADE, CAP AND RESURFACE TO GRADE.

VALVE
16" BUTTERFLY VALVE, MJ W/ BOX.

REDUCER
24" x 16" REDUCER, MJ

BEND
24" - 1/16 BEND MJ

APPROX. AERIAL RELOCATION BY NET, GMP & FACTV

HYDRANT/FUTURE CONNECTION
24" x 16" TEE, MJ
16" NIPPLE, VARIABLE LENGTH
16" BUTTERFLY VALVE, MJ W/BOX
16" NIPPLE, VARIABLE LENGTH
16" - 1/8 BEND, MJ
16" NIPPLE, VARIABLE LENGTH
16" x 6" TEE, MJ
LENGTH - 16" D.I. CLASS 52
16" CAP, MJ
6" NIPPLE, VARIABLE LENGTH
6" GATE VALVE, MJ W/BOX.
6" NIPPLE, VARIABLE LENGTH
HYDRANT

CURVE # 10
Δ = 30° 05' 50" RT.
D = 12° 00' 00"
R = 477.456'
T = 128.37'
L = 250.81'
E = 16.96'

REV CURVE # 10
Δ = 28° 48' 34" RT.
D = 12° 18' 00"
R = 465.82'
T = 119.64'
L = 234.22'
E = 15.12'

BM # 10
RR SPIKE IN 36" M.
ELEV. 825.99'

66+38 EQUALS ± BEGIN
BERLIN RS 02(1) SA
MONTPELIER M 6400 (7)
PROJECTS

16" D.I. CLASS 52

24" D.I. CLASS 52

EXIST. 8" D.I. WATER MAIN

EXIST. 8" PVC SANITARY

WATER SERVICE (TYP.)
COPPER WATER SERVICE, SHUT OFF WITH BOX. SEE SHEET 18 OF 19 FOR DETAIL.

MATCHLINE TO SHEET 9 OF 19

MATCHLINE TO SHEET 11 OF 19

THIS SHEET FOR UTILITIES USE ONLY

15-FEB-1989

NOTE
The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	DAYE/REDMOND	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	76B033	DATE PLOTTED	
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M6400(7)		
SHEET	96 OF 335 SHEETS		

Rev.	Description	By	Date

CITY OF MONTPELIER

BERLIN STREET RESTORATION
WATER MAIN INSTALLATION PLAN
STA. 11+57 TO STA. 17+00

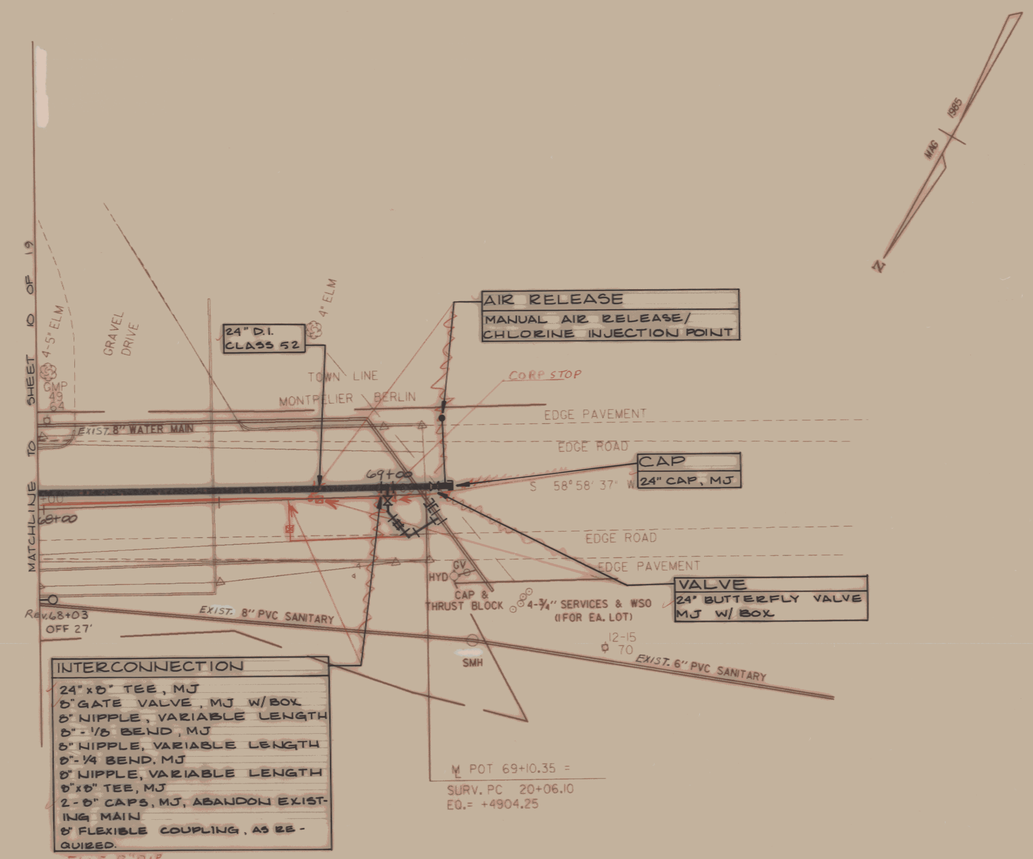
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	T.DINESBITT
Proj. Designer	L.B.LACKEY
Drawn By	K.G.FLANDERS
Checked By	T.DINESBITT
Scale	1" = 20'
Approved	
Date	APRIL 14, 1989

Sheet 11 of 19
D 618040-11

STATE OF VERMONT — THOMAS D. DINESBITT — REGISTERED — PROFESSIONAL ENGINEER



0 20 40
SCALE

THIS SHEET FOR UTILITIES USE ONLY

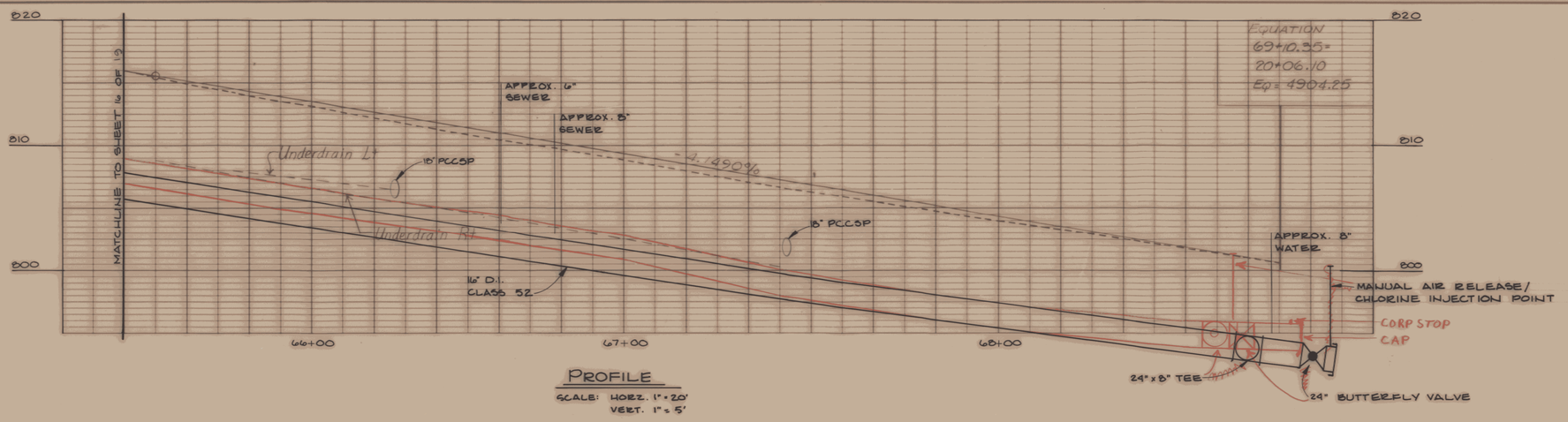
15-FEB-1989

NOTE

The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

SURVEYED BY	MOREAU	DATE 7-85
DRAWN BY	DAYE/REDMOND	DATE 4-88
SQUAD LEADER	SHERIDAN	
DESIGN FILE NO.	76B033	DATE PLOTTED
PROJ. NAME	MONTPELIER	
PROJ. NO.	MEGC M6400(7)	
SHEET	97 OF 335 SHEETS	

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A



PROFILE

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

THIS SHEET FOR UTILITIES USE ONLY

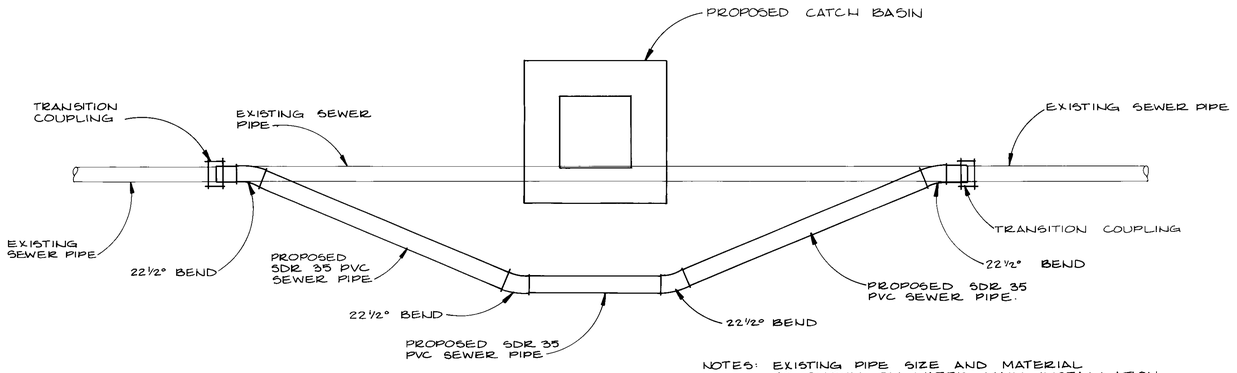
SHEET 98 OF 335

CITY OF MONTPELIER
BERLIN STREET RESTORATION
WATER MAIN PROFILE
MONTPELIER, VERMONT

Dufresne-Henry
59 East State Street
Montpelier, VT 05602

Client No. 615040 | Proj. Mgr. T.D.N. | Date 4-14-09 | B | NO.17

BRUNING 44-232 74857

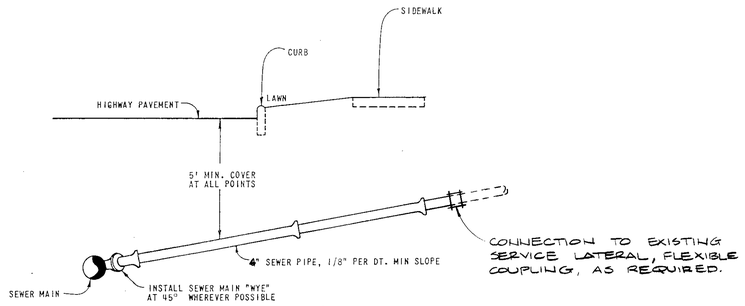


NOTES: EXISTING PIPE SIZE AND MATERIAL AS SHOWN ON WATER MAIN INSTALLATION PLAN SHEETS.

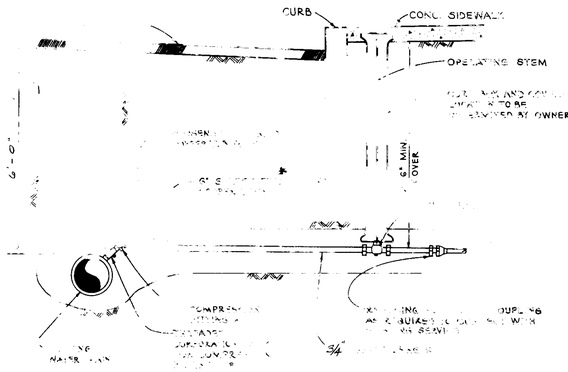
CONTRACTOR TO MAKE CONNECTION TO EXISTING PIPE AS REQUIRED, AND MAINTAIN A CONSTANT SLOPE.

SIZE OF PROPOSED SDR 35 PVC SEWER PIPE TO BE CONSISTANT WITH EXISTING.

"DETAIL A"
SEWER MAIN DIVERSION DETAIL
NOT TO SCALE



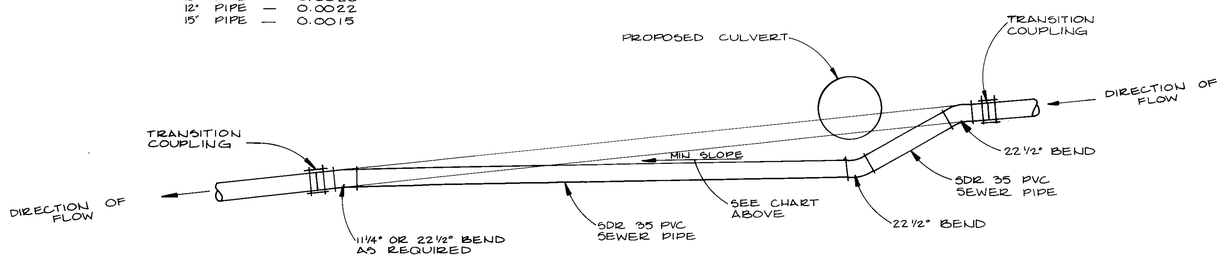
TYPICAL HOUSE SERVICE LATERALS
NOT TO SCALE



* SELECT FILL SHALL BE EXCAVATED MATERIAL UNLESS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. UNSUITABLE MATERIAL SHALL BE REPLACED WITH GRANULAR BACKFILL FOR STRUCTURES ITEM # 204.30

"DETAIL A" SERVICE CONNECTION DETAIL
NOT TO SCALE

MIN. SLOPE		
6"	PIPE —	0.0060
8"	PIPE —	0.0040
10"	PIPE —	0.0028
12"	PIPE —	0.0022
15"	PIPE —	0.0015



NOTE: CONTRACTOR TO VERIFY MIN. SLOPES CAN BE MAINTAINED PRIOR TO CONSTRUCTION OF CULVERT. CONTRACTOR TO NOTIFY FIELD ENGINEER IF IT CAN NOT BE MAINTAINED.

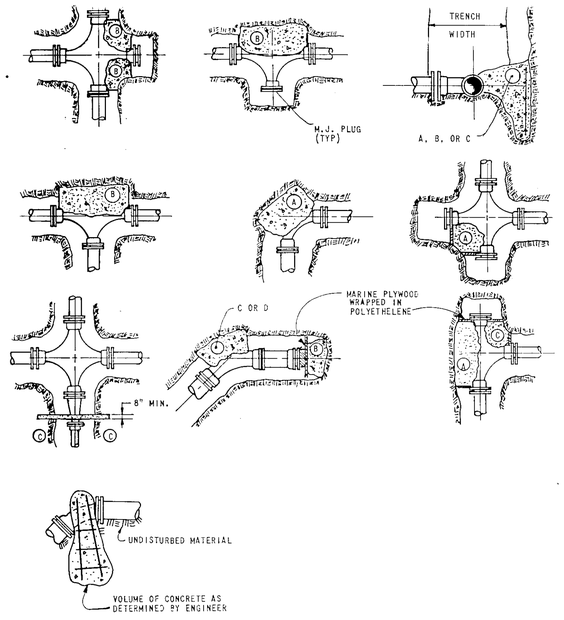
"DETAIL B"
SEWER MAIN DIVERSION DETAIL
NOT TO SCALE

BRUNING 44 232 74357

STATE OF VERMONT THOMAS D. HENRY No. 3120 REGISTERED PROFESSIONAL ENGINEER

Dufresne-Henry Engineering Corporation
Precision Park
No. Springfield
Vermont 05150

SHEET 99 OF 335
CITY OF MONTPELIER
MISCELLANEOUS DETAILS
MONTPELIER, VERMONT
Client No. 618040 | Proj. Mgr. T.D.N | Date 4-14-87 | B | 15



THRUST BLOCK DETAIL
NOT TO SCALE

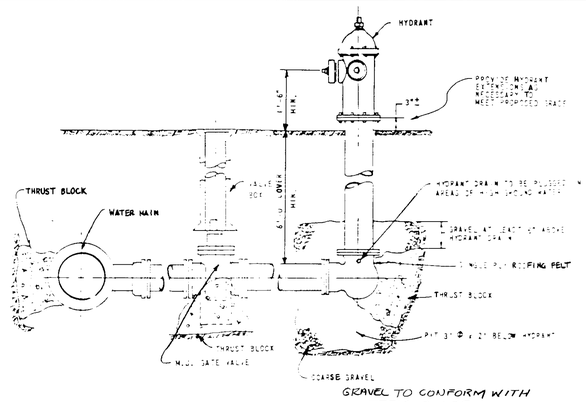
SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL												
REACTION TYPE		PIPE SIZE										
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
TEST PRESSURE = 100 PSIG	(A) 90°	0.89	2.19	3.92	5.57	8.62	10.91	15.41	18.02	24.06	34.64	53.83	77.39
	(B) 180°	0.65	1.55	2.76	4.19	6.09	8.37	10.89	13.87	17.01	24.49	38.06	54.72
	(C) 45°	0.48	1.19	2.12	3.01	4.66	5.91	8.34	9.71	13.02	18.75	29.13	41.88
	(D) 22 1/2°	0.25	0.60	1.08	1.58	2.37	3.01	4.25	4.97	6.64	9.56	14.85	21.35
	(E) 11 1/4°	0.13	0.30	0.54	0.77	1.19	1.52	2.12	2.51	3.33	4.79	7.45	10.71
OTHER TEST PRESSURES FOR THE ABOVE REACTIONS	SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 200 PSI TEST PRESSURE THE ABOVE NUMBERS DOUBLE.												

NOTE: THE TEST PRESSURE FOR PIPE INSTALLED AT EL. 517 WILL BE 300 P.S.I.

NOTES:

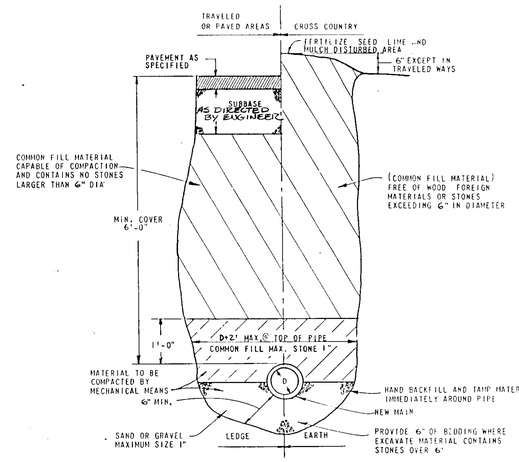
1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
3. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
4. REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF 1 TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
5. WHERE M.J. PIPE IS USED, M.J. PLUG MAY BE SUBSTITUTED FOR END BLOCKINGS.
6. Retainer glands are required for all mechanical joints. These glands do not reduce the requirements for thrust restraint.
7. All fittings shall be wrapped in polyethylene or building paper prior to installation of concrete restraint.
8. Threaded rod shall be ANSI A242 FY50 pipe restraint nuts to match AWWA C111. Threaded rods and nuts to be field coated with bituminous paint.

DATUM
VERTICAL _____
HORIZONTAL _____

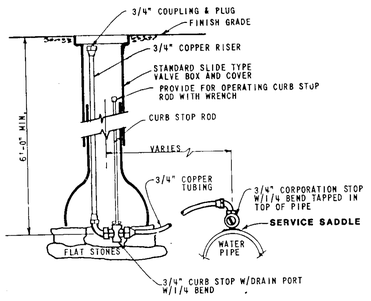


GRAVEL TO CONFORM WITH ITEM 301.25

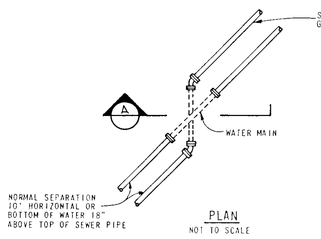
HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



DUCTILE IRON PIPE
TYPICAL TRENCH SECTION
NOT TO SCALE



TYPICAL INSTALLATION - TRAVEL WAY
FOR AIR VENT OR CHLORINATION INJECTION
NOT TO SCALE

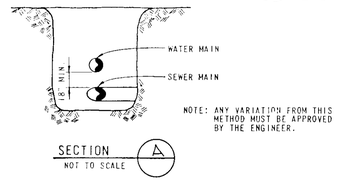


NOTE: CROSSING SEWER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18" VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN.

WHEN 18" CAN NOT BE MAINTAINED THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

WHERE WATER MAIN CROSSES OVER OR UNDER A SEWER MAIN, A FULL LENGTH OF D.I. WATER PIPE SHALL BE PLACED WITH MID-LENGTH CENTERED UNDER THE SEWER MAIN.

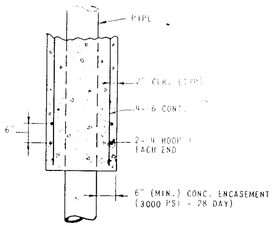
PLAN
NOT TO SCALE



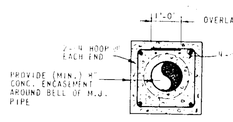
NOTE: ANY VARIATION FROM THIS METHOD MUST BE APPROVED BY THE ENGINEER.

SECTION (A)
NOT TO SCALE

CROSSING DETAIL
WATER & SEWER (STORM OR SANITARY) MAIN

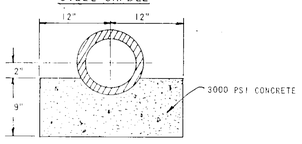


PLAN



SECTION
CONCRETE ENCASEMENT
SCALE 1/2" = 1'-0"

STEEL CRADLE



CONCRETE CRADLE

MATERIAL SPECIFICATION

ALL PIPE, FITTINGS, VALVES AND FIRE HYDRANTS SHALL MEET ALL AWWA (AMERICAN WATER WORKS ASSOCIATION) PROJECT STANDARDS.

Pipe - Ductile Iron, CL 52, push on joint.

Copper - Type K (Heavy Wall) Soft - ASTM B-88.

Fittings - Cast Iron, Mechanical Joint w/Retainer Glands ANSI A21.10.

Gate Valves - Waterous series 500 Resilient Wedge or American Darling CRS-80 gate valves or equal, non rising stem, Mechanical Joint, open left.

Butterfly Valve - Mueller Lineseal XP(TM), American-Darling Class 250, Butterfly or equal. Rubber-seated tight-closing type and shall meet or exceed AWWA Specification C-504-87, Mechanical Joint; MJ. Open left. Valve operators shall be of the traveling-nut type and shall use full AWWA C504 Class 150-B torque rating throughout entire travel.

Corporation Stops - Ford type F600 or Mueller H-15000, inlet AWWA taper thread outlet, pack joint, Electrical Continuity Required.

Curb Stops - Ford Ball Valve Curb Stop Model B22-333 or Mueller H-1502-1.

Tapping Sleeve and Valve - Mechanical joint sleeve with flange fitting for tapping valve. 200 psi work pressure, tapping sleeves shall meet the requirements for resilient wedge gate valves, above insofaras they apply. Tapping valves shall be flanged by mechanical joint. Tapping valves shall be American-Darling Model No. 865 or equal. Tapping sleeves shall be American Darling Mechanical joint or equal.

Valve Boxes and Covers - Cast Iron, Two piece sliding tape, 5 1/4" Diameter, Flared Base, the work "WATER" shall be cast into cover.

Curb Box - Shall be adjustable in lengths consistent with pipe depths. Curb boxes shall be equal to Mueller H-10314 or E.J. Prescott No. 4537 with No. 45420 with No. 45525, stationary rods will be supplied with curb boxes.

Flexible Couplings - Dresser Style 38.

Solid Sleeve Couplings - Clow F-1014 long sleeve or equal.

Adapter Couplings - Adapter couplings may be required for fittings new services to existing service lines. Such fittings shall be flared connections and provide electrical continuity. Fitting shall be equal to Mueller H-15402.

Tapping Pipe - Tapping ductile iron pipe; corporation stops shall be installed in ductile iron pipe with direct tape.

Hydrants - Eddy F-2640, 6 inch MJ inlet, 5 1/4" main valve, 2-2 1/2" hose outlets, 1 - 4 1/2" pumper outlet, National Standard threads.

Rigid Insulation - Upjohn CPR Tryner rigid urethane, or approved equal - 2' x 8' x 2" rigid urethane insulation for house services - 2 inch O.D. x 3/4 inch I.D.

POLYVINYL CHLORIDE PIPE: SHALL BE SDR-35, PUSH-ON JOINT CONFORMING WITH ASTM D3034. FITTING SHALL COMPLY WITH ASTM D3034. JOINTS SHALL COMPLY WITH ASTM D3212.

REV.	DISCRIPTION	BY	DATE
2	MATERIAL SPEC/CROSS DETAIL	LBL	3/19/90
1	CROSSING DETAIL	LBL	3-JAN-20

SHEET 100 OF 335

CITY OF MONTPELIER

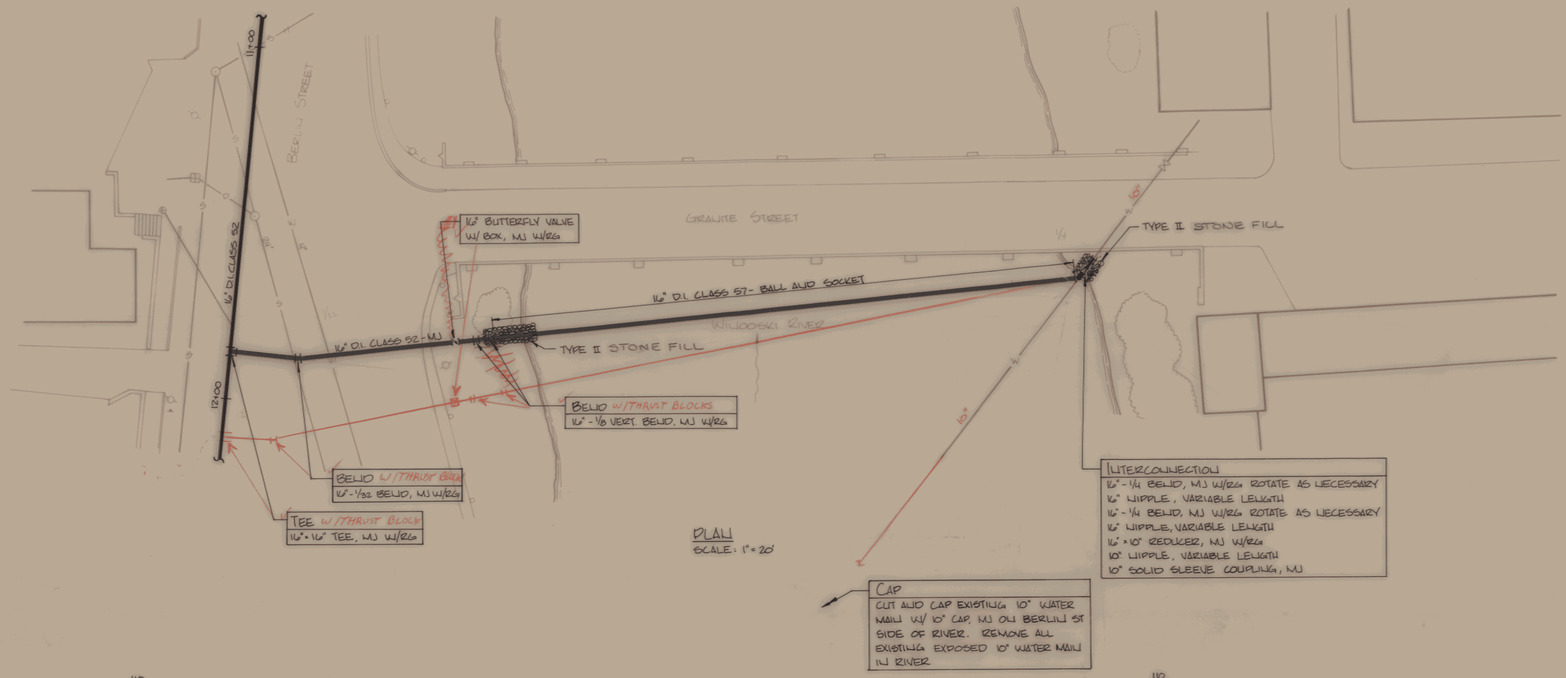
MISCELLANEOUS DETAILS & MATERIAL SPECIFICATIONS

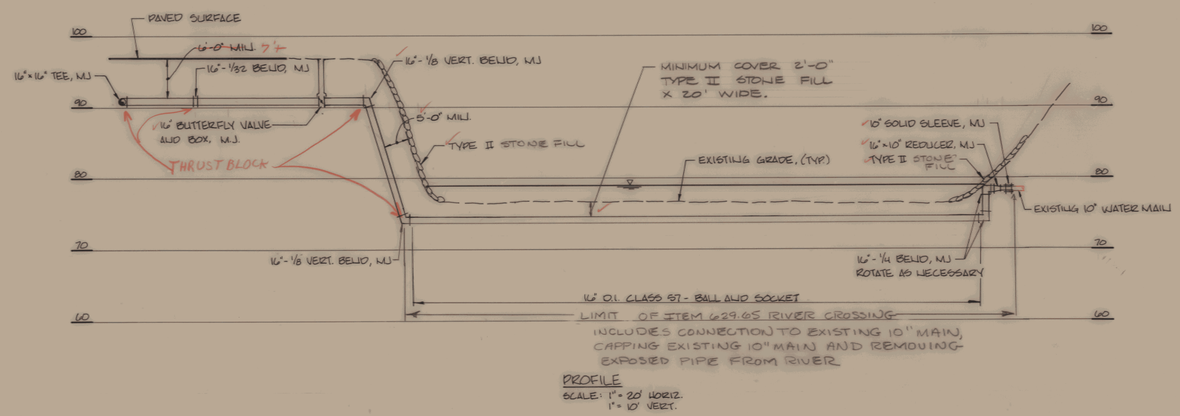
MONTPELIER, VERMONT

DuBois & Henry
58 East State Street
Montpelier, VT 05602

Client No. 618040 | Proj. Mgr. T.D.N. | Date 4-14-89 | B | No. 19

BRUNING 44 232 74357





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

NOTES:
1. CONTRACTOR TO RIP RAP (TYPE II) BANK ON ALL DISTURBED AREAS. (STONE FILL TYPE II)
2. CONTRACTOR TO CONSTRUCT COFFER DAMS AS REQUIRED TO MAINTAIN RIVER FLOW DURING CONSTRUCTION OF WATER MAIN.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH STREAM ALTERATION PERMIT.
4. REFER TO SHEET 1 OF 19 FOR GENERAL NOTES. REFER TO SHEET 19 OF 19 FOR MISCELLANEOUS DETAILS.

NOTE

The Owner reserves the right to delete any or all of the above utility relocation work and perform the relocation work with their own forces. The contractor should confirm material and quantities prior to ordering.

Rev.	Description	By	Date
1	MINIMUM COVER PER STREAM ALT PERMIT	LBL	MAR 29 91

SHEET 10DA OF 335 SHEETS

CITY OF MONTPELIER

WATERWORKS IMPROVEMENTS
WINOOSKI RIVER CROSSING PLAN

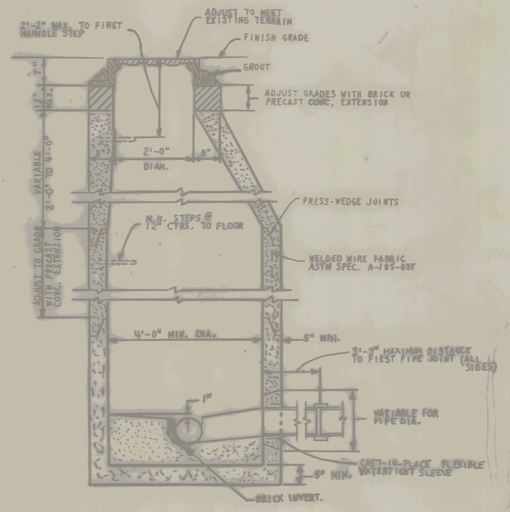
MONTPELIER, VERMONT

Dufresne-Henry Inc.
Precision Park
No. Springfield, Vermont 05150

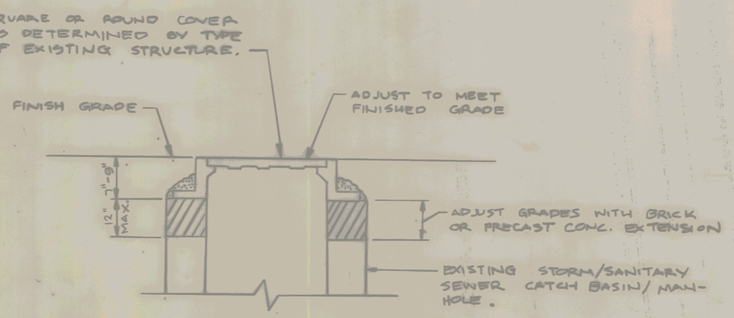
Client No.	618040
Proj. Manager	T.D. WESBITT
Proj. Designer	C.S. PECOR
Drawn By	D.R. CHELLEY
Checked By	T.D. WESBITT
Scale	AS SHOWN
Approved	
Date	MARCH 18, 1991
Sheet	19A of 19.
D	618040-19A

STATE OF VERMONT THOMAS D. WESBITT REGISTERED PROFESSIONAL ENGINEER

BRUNING 45337-3



TYPICAL MANHOLE SECTION
SCALE: 1/2"=1'-0"



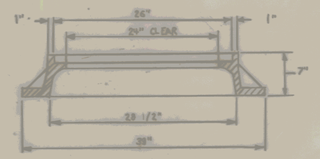
MANHOLE/CATCH BASIN COVER DETAIL
NOT TO SCALE



COVER PLATE

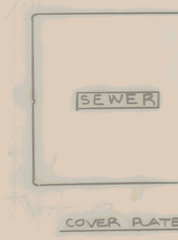


COVER SECTION

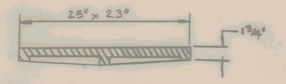


FRAME SECTION

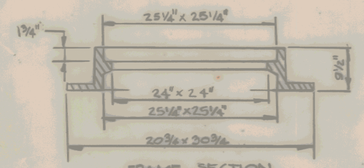
MANHOLE FRAME & COVER DETAIL
MINIMUM WEIGHT - FRAME = 250#
MINIMUM WEIGHT - COVER = 150#
NOT TO SCALE



COVER PLATE



COVER SECTION



FRAME SECTION

MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE

Client No.	
Proj. Mgr.	
Date	

DuFresne Henry Inc. DH A1

DATUM
VERTICAL N/A
HORIZONTAL N/A

SURVEYED BY _____ DATE _____
~~TRACED~~ DRAWN BY S.G. Neilan DATE 8/89
SQUAD LEADER T.D. Sheridan
DESIGN FILE NO. _____ DATE PLOTTED _____
PROJ. NAME Montpelier
PROJ. NO. MEGC M6400 (7)
SHEET 101 OF 335 SHEETS

SERVICE CONNECTION SCHED			
HOUSE #	GMP	NET	CATV
145	3" @ 30 L.F.	1"@ 5 L.F.	1"@ 5 L.F.
147	3" @ 25 L.F.	1" @ 25 L.F.	1" @ 25 L.F.
149	3" @ 20 L.F.	1" @ 20 L.F.	1" @ 20 L.F.
153	3" @ 50 L.F.	4" @ 30 L.F.	2" @ 50 L.F.
155	3" @ 10 L.F.	4" @ 40 L.F.	2" @ 45 L.F.
157	3" @ 15 L.F.	1" @ 15 L.F.	1" @ 15 L.F.
159	3" @ 40 L.F.	– –	– –
162	3" @ 90 L.F.	1" @ 25 L.F.	– –

Rev.	Description	By	Date
1	NEW GMP/NET/CATV TERMINATION	JTM	4/10/92
2	NET SERVICES TO 4"	"	"
3	MOVE POLE TO STA 11+71	JTM	6/18/92
4	FEED #149, 153 & 155 FROM UPPER NET VAULT	JTM	6/18/92
5	SWITCH GMP/NET FEED @ #147 & #149	JTM	6/18/92
6	MOVE GMP FEED @ #155	JTM	6/18/92
7	ADD LVPP @ 14 STA 13+00	JTM	6/18/92
8	ADD 2" PE VAULT DRAIN	JTM	6/18/92
9	ADD SERVICE CONNECTION SCH	JTM	6/24/92

CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
UNDERGROUND UTILITIES RELOCATION PLAN
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	J. SHATNEY
Checked By	L. LACKEY
Scale	1" = 20'
Approved	
Date	27 NOV. 1990

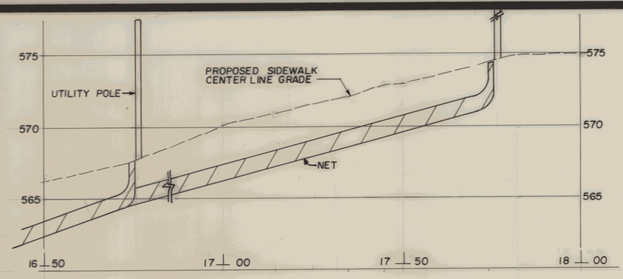
Sheet 1 of 7
D 618040-01

CURVE # 1
Δ = 2° 41' 36" LT.
D = 1° 30'
R = 3819.72'
T = 89.79'
L = 179.56'
E = 1.06'

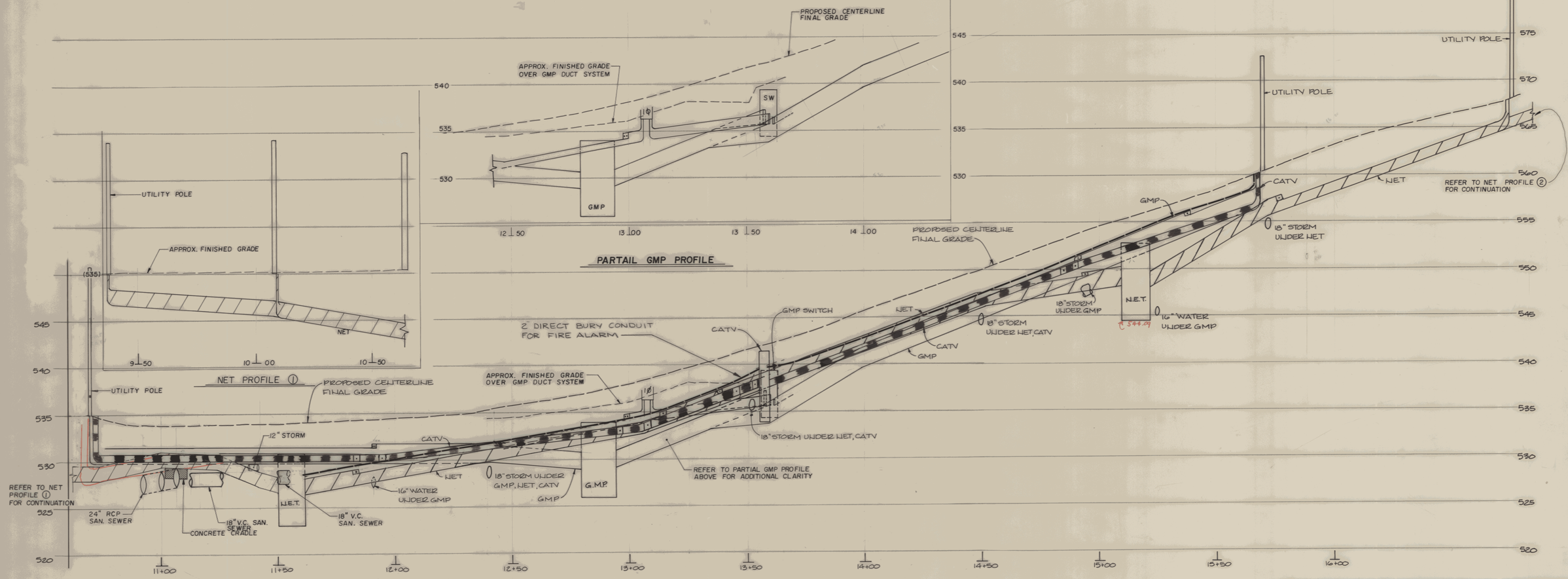
MAG 1985

MATCHLINE A
NET 4-4"
2-4"
NEW CONCRETE SIDEWALK

MATCHLINE "B"
STA. 11+00
RECAP ABANDONED SEWER
DIRECT BURIAL 2" CONDUIT FOR FIRE ALARM
REPLACE CURB & SIDEWALK AS NECESSARY
EXISTING 14" SEWER
SIDEWALK
TO POLE #19
16" D.I.
GMP 4-3"
CATV 4"
ABANDONED SEWER
HYD.
(3) WATER SERVICES
6" SEWER
CONTRACTOR TO VERIFY LOCATION
TRAILER
P.O.T. 11+54.93 = RIVER ST. TRAV. P.I. 80+00.00
TRAV. 80°-30' RT. FROM P.I. 83+00 PCC-SP .0864
NEW 8" PCSSP .0864 OR CAMP .0960
REMOVE EXISTING 2 X 2 D.I. (2 ACCURB TO BE PLUGGED AND TO REMAIN IN PLACE
BM # D ON SE ABUT. OF BRIDGE ELEV. 535.78
APPROXIMATE LOCATION OF NEW GUY
GRANITE STREET BRIDGE
SECT 10-10 DITCH
NET 4-4" CTV 4"&3"
CTV 4"&3" FIRE 2" DB @ C ON C SIDE OF VAULT #1
2" STORM
24" RCP SAN. SEWER
2" PE VAULT DRAIN
6" WATER
GMP 8-16"
LVPP
SW
TOU TRAFFIC CONTROLLER 2-3"
13+40 32' LT
14+77 21' LT
3" DB GMP
5' PERMANENT EASEMENT FOR GMP, NET, CATV SERVICES TO ALL HOUSES (TYP.)
15+44, LT 21 Revised Location OF TV CABLE SPLICE TERM.
SPLICE TERM 13+12 LT 24.5'
15+75 RT 41'
MATCHLINE A
SEWER DIVERSION
NEW PCSSP .0864 OR CAMP .0960
NEW 6" PCSSP .0864 OR CAMP .0960
NEW 8" PCSSP .0864 OR CAMP .0960
NEW 12" X 20" CSSP .0864 OR CAMP .0960 W/ 2 ELBOWS @ 45°
NEW 12" X 24" CSSP .0864 OR CAMP .0960 W/ 2 ELBOWS @ 45°
NEW 18" X 28" PCCSP .0864 OR CAMP .0960
NEW 6" X 24" UNDERDRAIN CARRIER PIPE
NEW 6" X 10" UNDERDRAIN CARRIER PIPE
NEW 6" X 45° PCCSP .0864 OR CAMP .0960
NEW 6" X 30° PCCSP .0864 OR CAMP .0960
NEW 6" X 90° PCCSP .0864 OR CAMP .0960
NEW 6" X 45° PCCSP .0864 OR CAMP .0960
NEW 6" X 22.5° PCCSP .0864 OR CAMP .0960
NEW 6" X 22.5° PCCSP .0864 OR CAMP .0960
NEW 6" X 45° PCCSP .0864 OR CAMP .0960
NEW 6" X 45° PCCSP .0864 OR CAMP .0960
NEW 6" X 45



NET PROFILE ②



UTILITIES PROFILE
SCALE: HORZ. 1"=20'
VERT. 1"=5'

Rev.	Description	By	Date
1	REV. PROFILE (ADD PARTIAL)	JTM	4/28/92
2	RELOCATE UTILITY POLE	JTM	6/18/92
3	REVISE NET PROFILE	JTM	6/18/92

STATE OF VERMONT
ALEC G. TUSCANY
NO. 3864
REGISTERED PROFESSIONAL ENGINEER

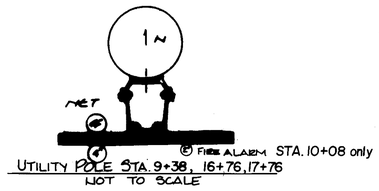
CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
UTILITIES PROFILE
MONTPELIER, VERMONT

Dufresne-Henry Inc.
58 East State Street
Montpelier, VT 05602

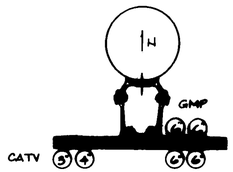
Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	J. SHATNEY
Checked By	L. LACKEY
Scale	AS SHOWN
Approved	
Date	27 NOV. 1990

Sheet 101 of 335
Sheet 2 of 7
D 618040-02

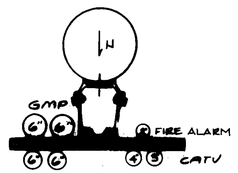
45337-3
BRUNING



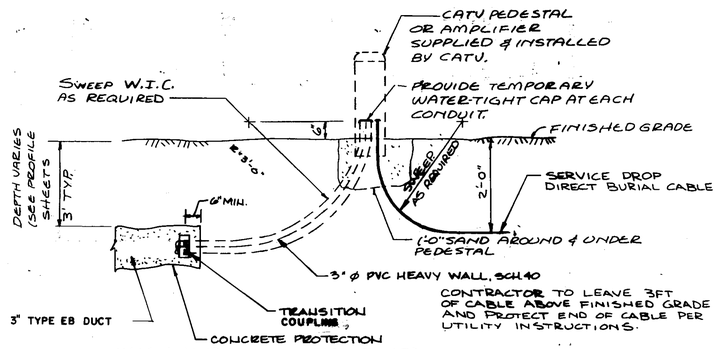
UTILITY POLE STA. 9+38, 16+76, 17+76
NOT TO SCALE



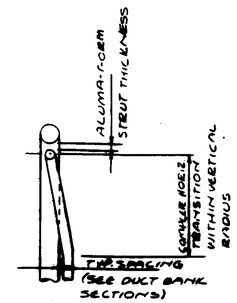
UTILITY POLE STA. 10 + 65
NOT TO SCALE



BERLIN ST. POLE STA. 15+78
NOT TO SCALE



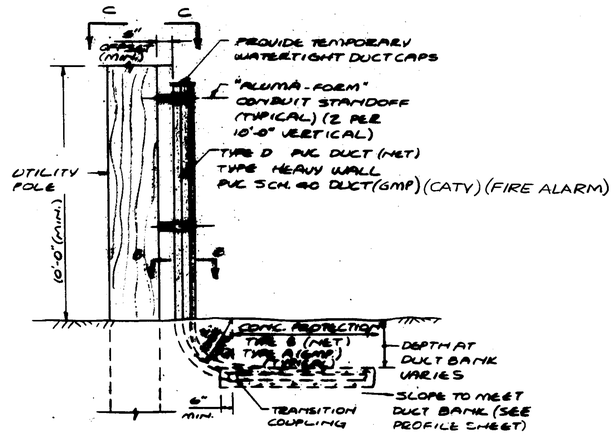
CATV PEDESTAL DETAIL
SCALE: ½" = 1'-0"



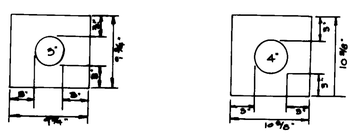
PLAN SECTION 'B-B'
(DETAIL 'M' RISER UTILITY POLE)
N.T.S.

NOTES FOR DETAIL 'M'

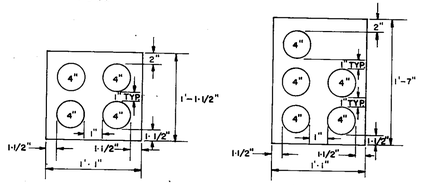
1) NUMBER & SIZE OF RISING DUCTS SHOWN ON PLANS.
2) NUMBER & SIZE OF STUBBED DUCTS SHOWN ON PLANS.
3) USE PVC BEND RADII INDICATED ON SHEET 101C & 101E IN THE PLANS.
4) DUCTS TERMINATING AT POLE, BUT NOT RISING UP POLE, SHALL EXTEND 6" (MIN.) ABOVE FINISH GRADE & HAVE WATERTIGHT CAPS.
5) CONTRACTOR SHALL VERIFY UTILITY ORIENTATION SHOWN IN PLAN SECT. C-C WITH UTILITIES PRIOR TO ERECTION.



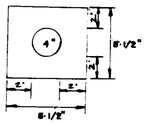
DETAIL 'M' RISER UTILITY POLE (ALUMA-FORM)
N.T.S.



TYPICAL SECTIONS OF CONCRETE ENCASED CATV DUCT BANKS
NOT TO SCALE

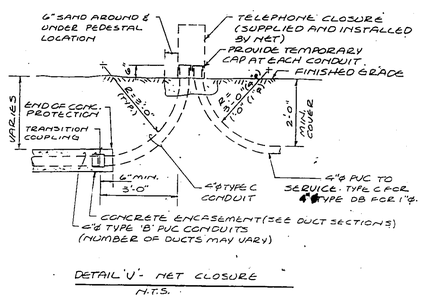


TYPICAL SECTIONS OF CONCRETE ENCASED NET DUCT BANKS
NOT TO SCALE



TYPICAL SECTION OF CONCRETE ENCASED NET DUCT BANK
NOT TO SCALE

CATV
PRECAST MANHOLE



DETAIL 'U' - NET CLOSURE
N.T.S.

Rev.	Description	By	Date
1	NET SERVICES TO 4"	JTM	4/10/92
2	POLE SECTIONS	JTM	4/28/92

CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
RISER POLE AND CABLE TELEVISION DETAILS
MONTPELIER, VERMONT

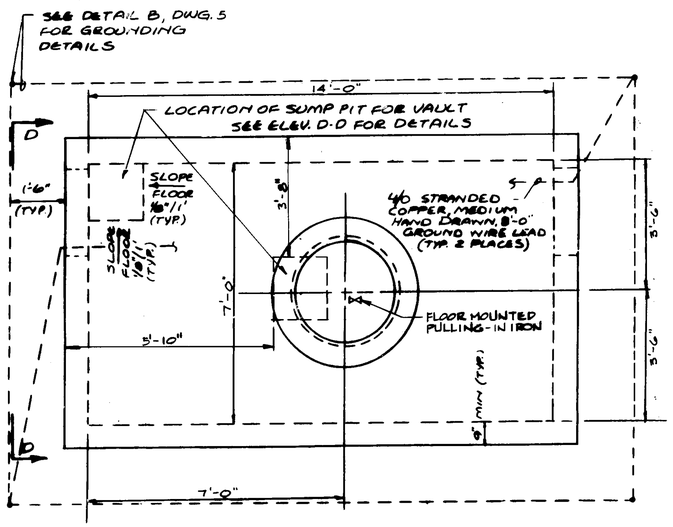
STATE OF VERMONT — ALEC — NO. 3864 — REGISTERED PROFESSIONAL ENGINEER

DuBois & Henry Inc.
Chelmsford Street
Montpelier, VT 05602

Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	J.E. SHATNEY
Checked By	L.B. LACKEY
Scale	AS SHOWN
Approved	
Date	27 NOV. 1990

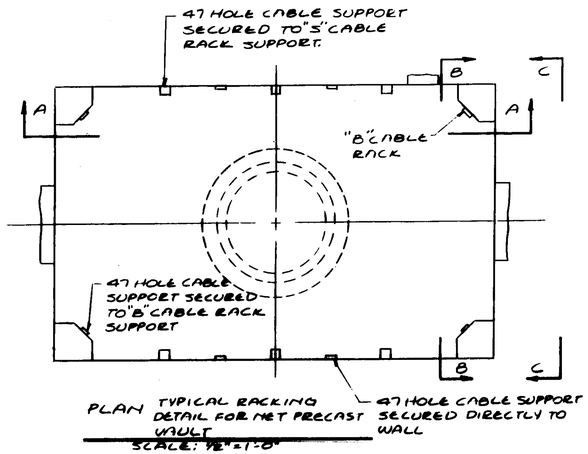
Sheet NOC-0005
Sheet 3 of 7
D 618040-03

BRUNING 453373



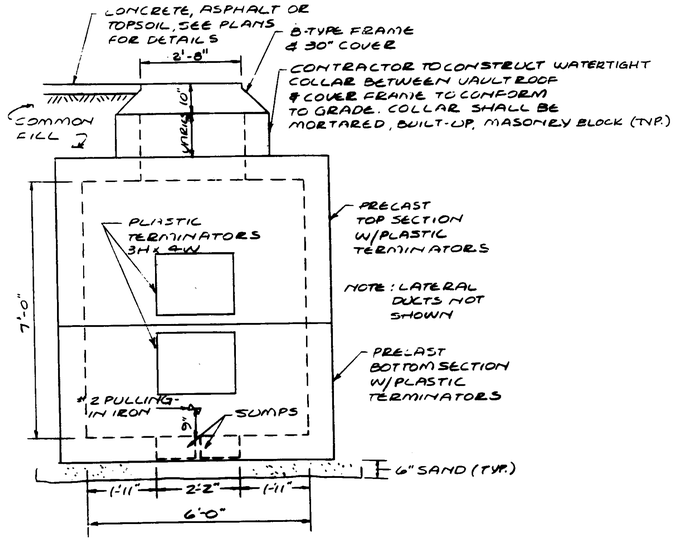
PLAN - GMP PRECAST VAULTS

N.T.S.



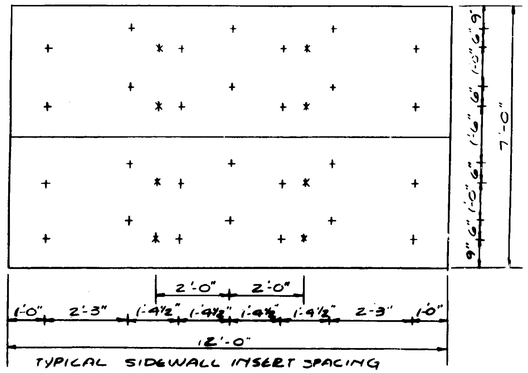
PLAN TYPICAL RACKING DETAIL FOR NET PRECAST VAULT

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



ELEV. C-C - TYPICAL END WALL FOR NET VAULT

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



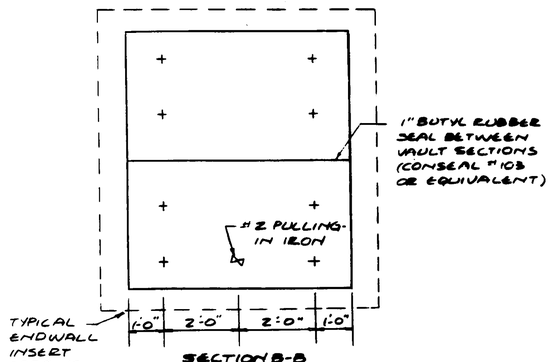
TYPICAL SIDEWALL INSERT SPACING

SECTION A-A

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

ELEVATION D-D GMP PRECAST VAULT

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

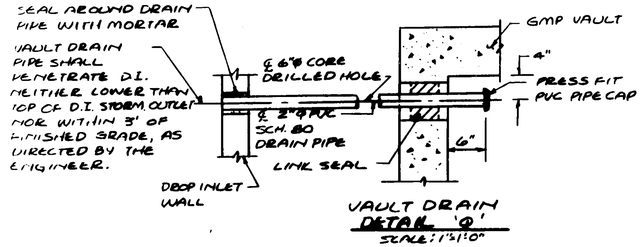


SECTION B-B

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

+ = 1/2" CONCRETE INSERT

* = 1/4"-20 CONCRETE INSERT FOR BONDING RIBBON



VAULT DRAIN DETAIL 'Q'

SCALE: 1"=1'-0"

NET NOTES:

MATERIAL REQUIRED FOR EACH NET MANHOLE

1 - 38Y - 4096 - 1 PRECAST MANHOLE (TOP & BOTTOM SECTION) EQUIPPED WITH:
- 50 - PLASTIC DUCT TERMINATORS
- 2 - "C" MANHOLE SUMPS
- 2 - #2 PULLING-IN IRONS
- 16 - 1/4"-20 CONCRETE INSERTS
- 72 - 1/2" CONCRETE INSERTS

1 "B" TYPE FRAME & COVER
- 19 - 47 HOLE CABLE SUPPORTS
- 16 - B CABLE RACK SUPPORTS
- 24 - S CABLE RACK SUPPORTS
- 1 - 8' STRAIGHT LADDER
- BONDING RIBBON (28')
- 72 - 1/2" x 1 3/4" BOLT
- 40 - 1/2" x 2 1/2" BOLT
- 40 - 5/8" MACHINE NUT
- 56 - 5/16" x 1 1/4" FLAT ROUND WASHER

NOTE:
ALL BOLTS, NUTS & WASHERS ARE MACHINE THREADED & HOT GALVANIZED.

NOTES:
1. WATERPROOF DUCT PLUGS ARE TO BE USED IN ALL DUCTS.
2. MEMBRANES ARE TO BE BROKEN OUT ON ALL TERMINATORS WHICH ARE CONNECTED TO DUCTS.
3. ALL PRECAST NET MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AT&T STANDARDS - BELL LAB DRAWINGS ED 1T000-01 THRU ED 1T007-01 AND PURCHASED FROM AN APPROVED NET SUPPLIER. PRECAST MANHOLES.
4. JOINTS BETWEEN PRECAST SECTIONS SHALL BE WATER-TIGHT.
5. ALL VAULTS SHALL RESIST BUOYANCY FOR MAX. WATER TABLE AT FINISHED GRADE.
6. ALL VAULTS SHALL BE DESIGNED FOR HS-20 LOADING
7. ALL VAULTS SHALL BE DESIGNED FOR MAX. SOIL PRESSURE USING HIGH WATER TABLE AT FINISHED GRADE.

STATE OF VERMONT ALEC LAMOUREUX NO. 3884 REGISTERED PROFESSIONAL ENGINEER

Rev.	Description	By	Date
4	INCREASE GMP DIAG TO 3'-9"	JTM	6/18/92
1	ADD FLOOR PULLING-IN-IRON (GMP)	JTM	6/15/92
2	RELOCATE GMP SUMP	JTM	6/15/92
3	ADD 2H x 4W TERMINATOR (GMP)	JTM	6/18/92

CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
GMP AND NET VAULT DETAILS
MONTPELIER, VERMONT

DuBrenne Henry Inc. 13 East State Street Montpelier, VT 05602

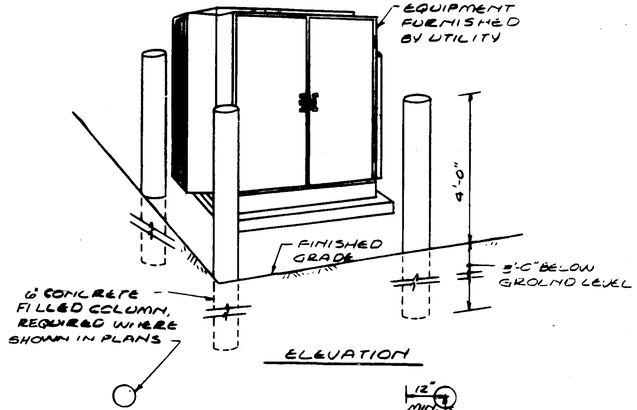
Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	J.E. SHATNEY
Checked By	L.B. LACKEY
Scale	AS SHOWN
Approved	
Date	27 NOV. 1990

Sheet 101 of 335

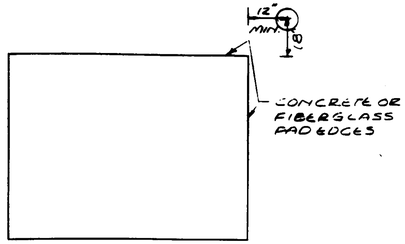
Sheet 4 of 7

D 618040-04

BRUNING 45337-3

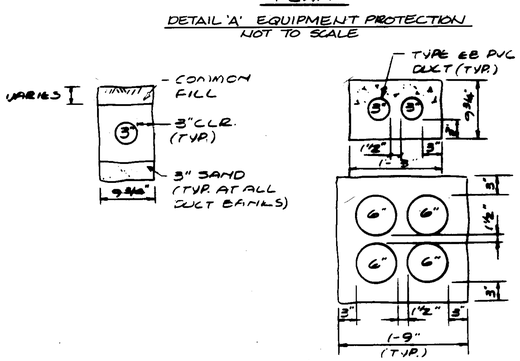


ELEVATION

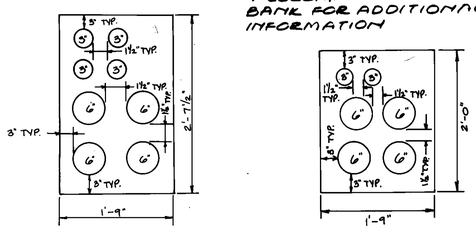


PLAN

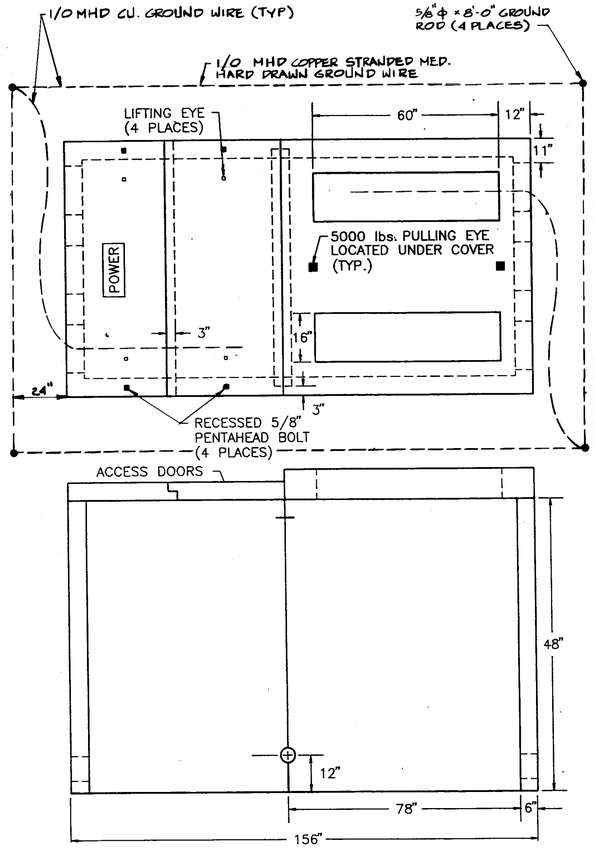
DETAIL 'A' EQUIPMENT PROTECTION
NOT TO SCALE



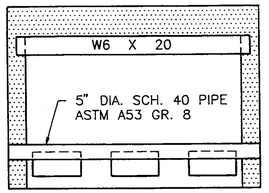
NOTE: SEE TYPICAL 4 COLUMN DUCT BANK FOR ADDITIONAL INFORMATION

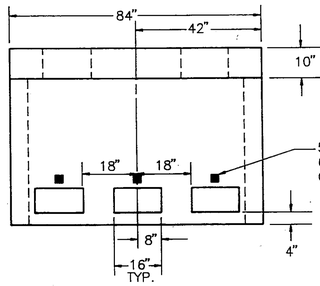


TYPICAL SECTIONS OF CONCRETE ENCASED DUCT BANK FOR GREEN MOUNTAIN POWER
NOT TO SCALE



CONCRETE SWITCH STRUCTURE
LOADING H – 10
ACCESS DOORS BY CDR CORP.
PC12 – 7284 – 04 PAD
LOGO ELECTRIC
FIBER REINFORCED
POLYMER CONCRETE
COLOR GRAY
LOAD RATING (ASTM C857) A–8

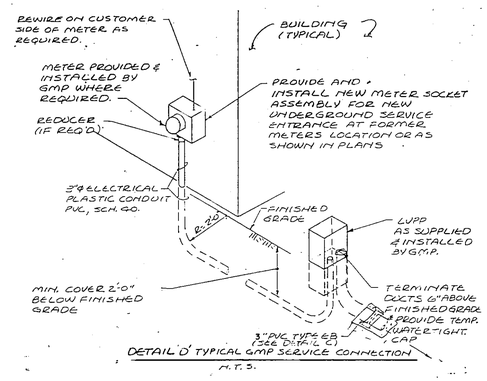




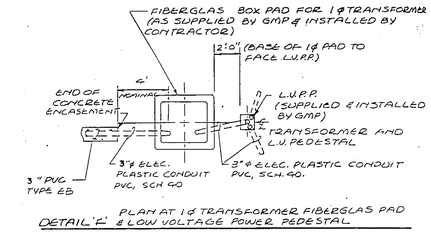
MTC, CONCRETE SWITCH STRUCTURE

SCALE 1/2" = 1'– 0"

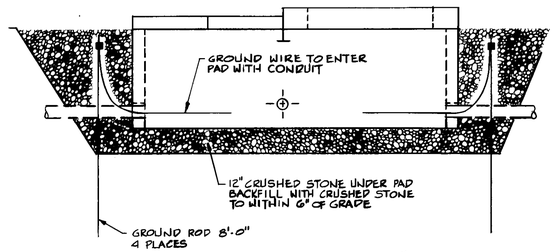
NOTE: SEE GROUNDING DETAIL "B" FOR ADDITIONAL GROUNDING INFO.



DETAIL 'D' TYPICAL GMP SERVICE CONNECTION
N.T.S.

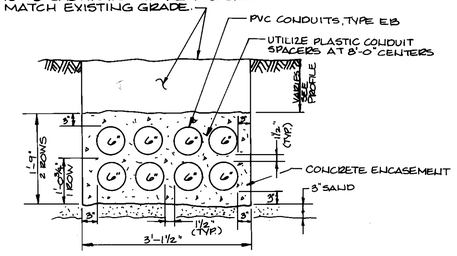


DETAIL 'E' PLAN AT 1ϕ TRANSFORMER FIBERGLAS PAD & LOW VOLTAGE POWER PEDESTAL

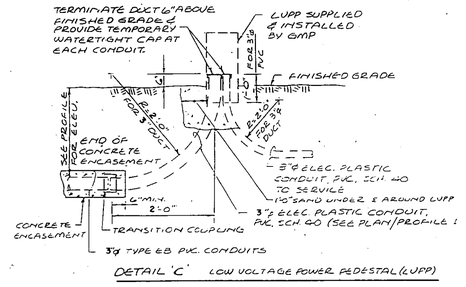


GROUNDING DETAIL "B"
SCALE: N.T.S.

WITHIN CONSTRUCTION LIMITS, SUBGRADE LINE IS DEFINED BY THE HIGHWAY TYPICAL SECTION. USE COMMON FILL BELOW SUBGRADE OUTSIDE CONSTRUCTION LIMITS, FINISH GRADE IS AS SHOWN IN THE PLANS. BACKFILL TO MATCH EXISTING GRADE.



TYPICAL SECTION FOR 4 COLUMN CONCRETE ENCASED DUCT BANK FOR GREEN MOUNTAIN POWER
NOT TO SCALE



DETAIL 'C' LOW VOLTAGE POWER PEDESTAL (LVPP)

Rev.	Description	By	Date
1	DUCT BANKS	JTM	4/10/92
2	NEW SWITCH STRUCTURE	JTM	4/24/92
3	ADD GROUNDING DETAILS	JTM	6/15/92

CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
GREEN MOUNTAIN POWER DETAILS
MONTPELIER, VERMONT

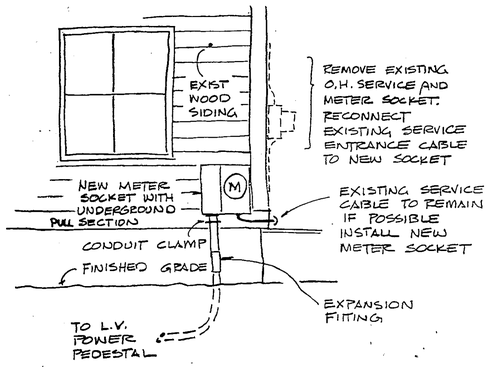
STATE OF VERMONT ALEC C. TUSCANY NO. 3664 REGISTERED PROFESSIONAL ENGINEER

D.L. Bruno-Henry Inc. 16 East State Street Montpelier, VT 05602

Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	J.E. SHATNEY
Checked By	L.B. LACKEY
Scale	AS SHOWN
Approved	
Date	27 NOV. 1990

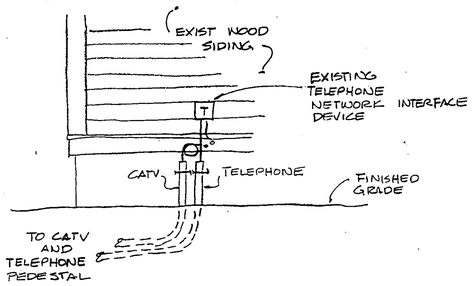
Sheet 10 of 35
Sheet 5 of 7
D 618040-05

45337-3
BRUNING

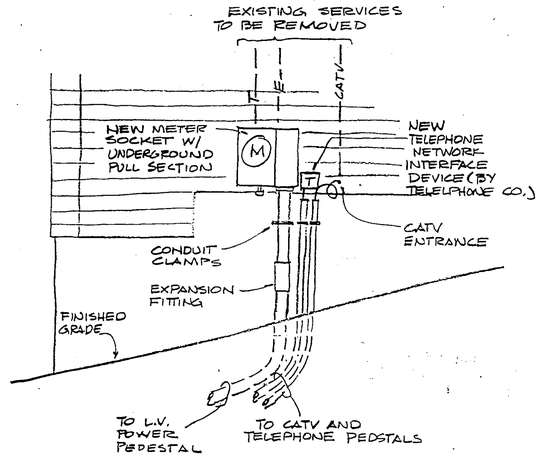


NOTE: POSITION NEW METER SOCKET, IF POSSIBLE TO ALLOW RECONNECTION OF EXISTING SERVICE ENTRANCE CABLE. IF CABLE CAN NOT BE RECONNECTED PROVIDE NEW SERVICE CABLE TO PANEL. VERIFY SIZE IN FIELD.

145 BERLIN ELECTRICAL

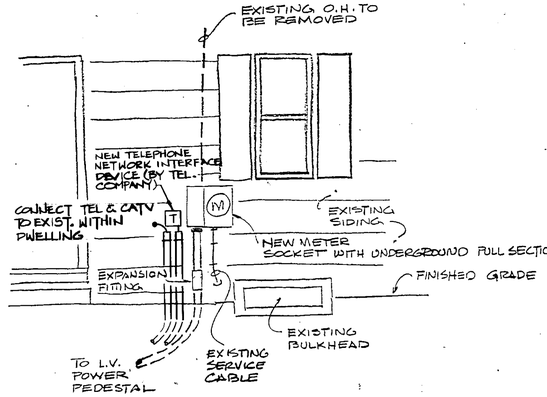


145 BERLIN CATV / TELEPHONE



147 BERLIN - ELECT/CATV/TEL

NOTE: REMOVE EXISTING METER SOCKET, IF POSSIBLE ALLOW RECONNECTION OF EXISTING SERVICE ENTRANCE CABLE. IF CABLE CANNOT BE RECONNECTED, PROVIDE NEW SERVICE CABLE TO PANEL. VERIFY SIZE IN FIELD.



149 BERLIN - ELECT

NOTE: REMOVE EXISTING METER SOCKET, IF POSSIBLE ALLOW RECONNECTION OF EXISTING SERVICE ENTRANCE CABLE. IF CABLE CANNOT BE RECONNECTED, PROVIDE NEW SERVICE CABLE TO PANEL. VERIFY SIZE IN FIELD.

153 BERLIN - ELECT / CATV

153 BERLIN - TELEPHONE

155 BERLIN - ELECTRICAL

155 BERLIN - CATV/TEL

NOTE:
REMOVE EXISTING DUPLEX METER SOCKET
RECONNECT EXISTING SERVICE CABLE

Rev.	Description	By	Date
1	ADD SERVICES TO #149	JTM	6/15/92

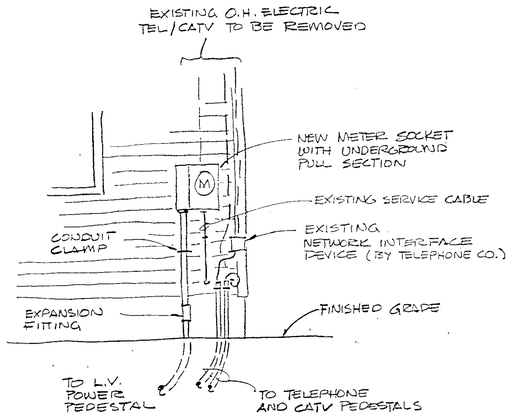
CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
HOUSE CONNECTION DETAILS
MONTPELIER, VERMONT

Dufresne Henry Inc.
Precision Park
No. Springfield, Vermont 05150

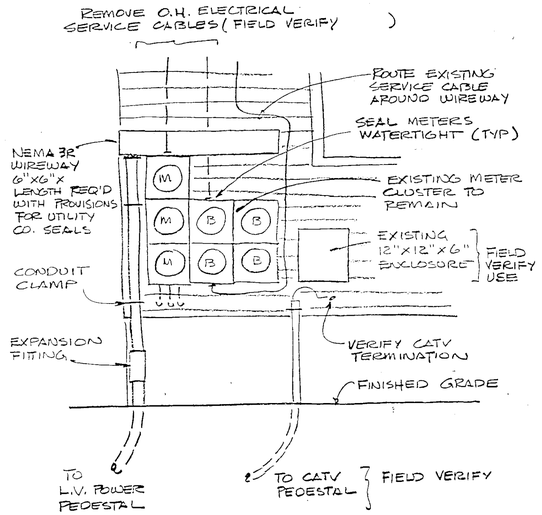
Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	
Checked By	
Scale	NOT TO SCALE
Approved	
Date	10 APR. 1992

SHEET 101F OF 337
Sheet 6 of 7
D 618040-06

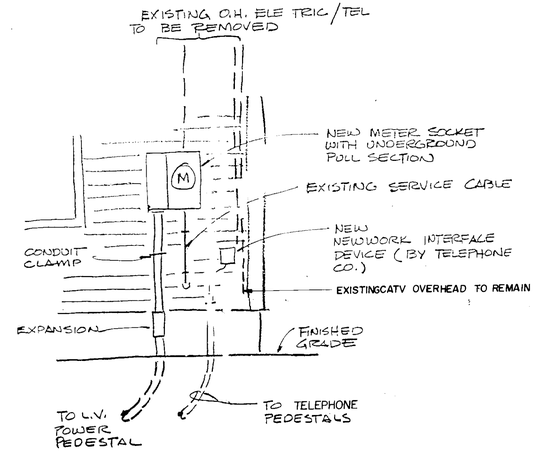
BRUNING 45337-3



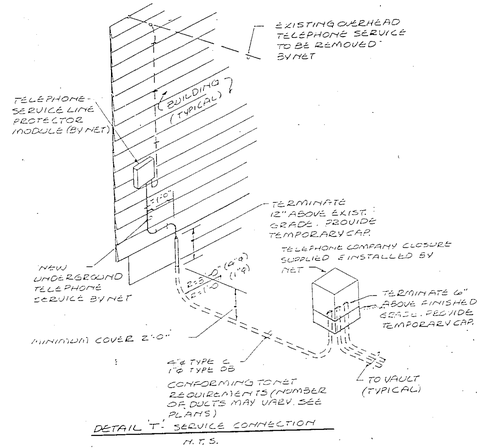
157 BERLIN - ELECT/CATV/TEL



159 BERLIN - APT. HSE.
ELECTRICAL / CATV



162 BERLIN - ELECT/TEL



DETAIL 'T' SERVICE CONNECTION
N.T.S.

NOTES

1. ALL SERVICE CONNECTIONS TO BE COORDINATED WITH LOCAL UTILITIES.
2. CONTRACTOR TO VERIFY GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL SERVICES. PROVIDE NO.4 AWG BARE COPPER GROUND WIRE AND CONNECT TO 5/8" DIAMETER X 8' COPPERWELD GROUND ROD IF GROUNDING ELECTRODE IS NOT IN COMPLIANCE WITH NEC ART. 250.
3. PROVIDE 3" PVC FOR ALL SECONDARY SERVICES TO METER SOCKETS. CONDUIT TO BE SCH. 40 PVC, SERVICE RISERS TO BE SCH. 80 PVC. SERVICE ENTRANCE CABLES SHALL BE TRIPLEX SECONDARY UD CABLE INSTALLED AND SUPPLIED BY GMP (GREEN MOUNTIAN POWER). PROVIDE REDUCER @ METER SOCKET IF REQUIRED.
4. PROVIDE - 1" TYPE DB PVC CONDUIT FOR SERVICE CONNECTION FOR SINGLE TELEPHONE SERVICE. UTILIZE 4" TYPE DB PVC CONDUIT FOR SERVICE CONNECTION FOR MULTI-TELEPHONE SERVICES. COORDINATE TERMINATION AT TELEPHONE COMPANY CLOSURE WITH NEW ENGLAND TELEPHONE.
5. PROVIDE - 1" TYPE DB PVC CONDUIT FOR SERVICE CONNECTION FOR SINGLE CATV SERVICES. UTILIZE 2" TYPE DB PVC CONDUIT FOR MULTI-CATV SERVICES. COORDINATE TERMINATION AT CATV SERVICE PEDESTAL WITH CATV COMPANY
6. UTILIZE 2'-0 RADIUS FOR 3" ϕ DUCT, 1'-0 RADIUS FOR 1" ϕ DUCT (TELE & CATV), 3'-0 RADIUS FOR 4" ϕ DUCT (TELEPHONE) (POWER) AND 2'-0 RADIUS FOR 2" ϕ DUCT (CATV).
7. ALL SYSTEMS TO HAVE A MINIMUM COVER OF 2'-0 BELOW FINISHED GRADE.

Rev.	Description	By	Date

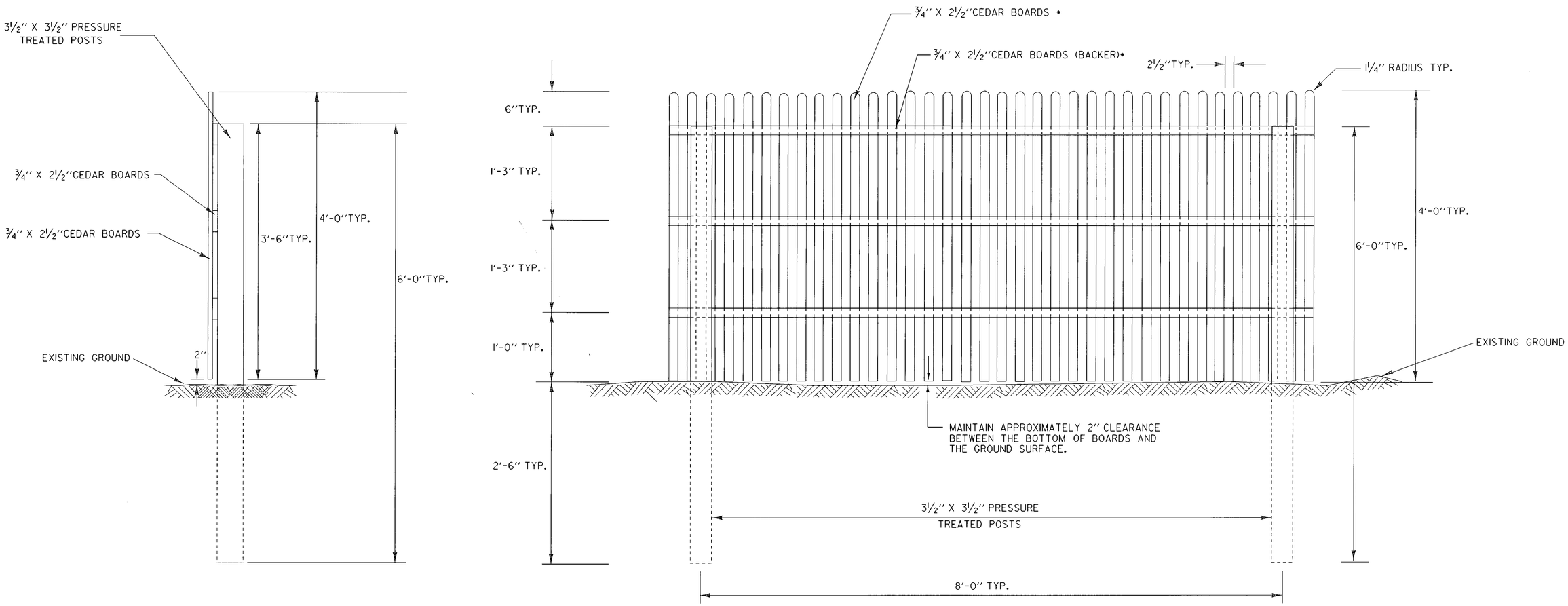
CITY OF MONTPELIER
BERLIN STREET RESTORATION PROJECT
HOUSE CONNECTION DETAILS
MONTPELIER, VERMONT

D.L. Maheu & Henry Inc.
Precision Park
No. Springfield, Vermont 05150

Client No.	618040
Proj. Manager	A. TUSCANY
Proj. Designer	J. MYERS
Drawn By	
Checked By	
Scale	NOT TO SCALE
Approved	
Date	10 APR. 1992

SHEET 1016 OF 337
Sheet 7 of 7
D 618040-07

BRUNING 45337-3



TYPICAL FENCE SECTION
STATION 34+00 RT~34+82 RT

NOTES: 1. ALL COSTS INVOLVED WITH THE CONSTRUCTION OF THIS FENCE, INCLUDING LABOR, MATERIALS, HARDWARE, EXCAVATION FOR POST HOLES AND PRESERVATIVE SHALL BE PAID WITH ITEM 620.1K(MOD)CHAIN LINK FENCE (4').
2. LUMBER DIMENSIONS ARE FINAL IN-PLACE DIMENSIONS. LUMBER SHALL BE PLANED ON ALL FOUR SIDES.
3. ALL NON-CEDAR LUMBER AND TIMBER SHALL BE PRESSURE TREATED WITH A PRESERVATIVE.
4. THE PRESERVATIVE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 726.01, TYPE IV.
5. FENCE SHALL BE CONSTRUCTED ALONG THE TOP FRONT YARD BANK.
6. THE FENCE WILL BECOME THE RESPONSIBILITY OF THE PROPERTY OWNER ONCE IT HAS BEEN ACCEPTED BY THE AGENCY OF TRANSPORTATION, THE CITY OF MONTPELIER AND THE FEDERAL HIGHWAY ADMINISTRATION.

•NOTE:CEDAR BOARDS SHALL BE NAILED TO BACKERS WITH 2-1¼'' GALVANIZED NAILS. BACKERS SHALL BE NAILED TO PRESSURE TREATED POST WITH 1-3'' GALVANIZED NAIL.

DATUM
VERTICAL N/A
HORIZONTAL N/A

ARCHIVED ON CADD

N.T.S.

REVISED 7/24/91

WOODEN FENCE DETAIL SHEET

SURVEYED BY _____ DATE _____
DRAWN BY const DATE 12-90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. /usr/const/76b033/cb033a
PRF FILE 76B033FN.PRF DATE PLOTTED 21-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M6400(7)
SHEET 102 OF 335 SHEETS

QUANTITIES

NO.	ITEM	UNIT	ESTIMATE Wall #1	Wall #2	Wall #3	Wall #4	Wall #5	TOTAL	FINAL Wall #1	Wall #2	Wall #3	Wall #4	Wall #5	TOTAL
204.25	Structure Excavation	C.Y.	105	295	165	80	135	780						
204.30	Granular Backfill for Structures	C.Y.	65	235	130	85	95	610						
501.25	Concrete Cl. B	C.Y.	25	95	46	32	41	239						
506.60	Structural Steel (anchor bolts)	lb.	253	7				260						
507.17	Epoxy Coated Reinforcing Steel.	lb.	2565	9605	5025	3805	4890	25,890						
514.10	Water Repellant	gal.	2	11	5	3	5	26						
525.15	Metal Hand Rail, 1-Rail	l.f.	17	39	28	31	11	126						
625.15	Metal Hand Rail (Mod) 3-Rail	l.f.		167	78	41	81	367						
*631.16	Testing Equipment-Concrete	l.s.						1						
*651.35	Topsoil	C.Y.	3	9	5	2	9	28						

* PAID AS ROADWAY ITEMS

NOTES

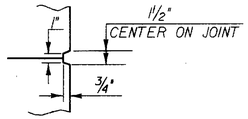
SEE SHEET 2 OF 10 FOR RETAINING WALL NOTES.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

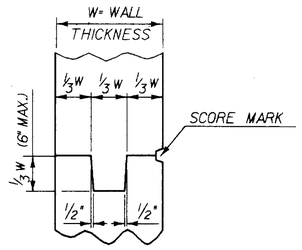
Town Of MONTPELIER
Highway No. BERLIN STREET
Bridge No.
Log Sta.
Surv. Sta.

Quantities for new Retaining Walls Along Berlin St.

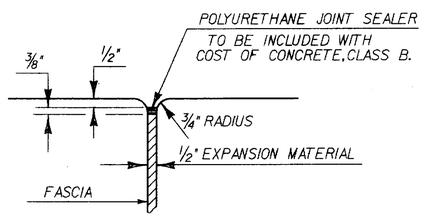
Designed by P.E. Provost
Drawn by R.M. Walker
Checked By P.E. Provost
Date 7/89
Bridge Design Supervisor R.P. Gendron
Project Montpelier-Berlin St.
Project No. MTBC-M6400(7)
I.A.C. Proj. N/A
Drawing Sheet No. 1 OF 10
Sheet 103 of 333



SCORE MARK DETAIL



TYPICAL CONCRETE CONSTRUCTION JOINT



JOINT BETWEEN STAIRS AND WALL

SCALE: 1" = 1"

RETAINING WALL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION (DATED 1990), AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (DATED 1989), AND ITS LATEST REVISIONS.

2. ALL METAL HAND RAIL, BOTH 1-RAIL AND 3-RAIL, SHALL BE PAINTED BLACK AFTER ERECTION AS PER TABLE 708.04B - ALKYD BLACK PAINT.

3. BLANK

4. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING STEEL INSTITUTE".

5. MINIMUM COVER FOR REINFORCING STEEL SHALL BE TWO (2) INCHES ALONG BACK FACES OF WALLS AGAINST EARTH, AND THREE (3) INCHES ELSEWHERE.

6. REINFORCING PLACEMENT TOLERANCES SHALL BE:
SPACING +- 1"
CLEARANCE +- 1/4"

7. ALL CONCRETE SHALL BE "CONCRETE, CLASS B"

8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1", UNLESS OTHERWISE INDICATED ON THE PLANS.

9. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.

10. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

CONCRETE: f'c = 3500 PSI fc=1400 PSI

Grade 60
REINFORCING STEEL: Ft = 24,000 PSI

SOIL: UNIT WEIGHT 140 PCF

11. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES F.

12. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

13. THE KEY IN CONCRETE CONSTRUCTRION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT.

14. ALL CONCRETE RETAINING WALLS WILL HAVE A TEXTURED SURFACE ON THE FRONT FACE ABOVE GROUND LINE. THE PATTERN OF THIS TEXTURE WILL RESEMBLE SANDBLASTED VERTICAL PLANKING OF VARIED WIDTHS. SUCH A SURFACE MAY BE PRODUCED USING REUSABLE, PLASTIC FORM LINERS. EXAMPLES OF THIS SYSTEM ARE "LITHOTEX TEXTURE" #T-8430 FORMLINERS PRODUCED BY L. M. SCOFIELD COMPANY, "WOOD DESIGN FORMLINERS" TYPES 358 OR 363 BY GREENSTREAK COMPANY, OR "VAC-U-FORM PLUS" FORMLINERS #16965 OR #16910 BY FITZGERALD COMPANY OR EQUIVALENT. ALL TEXTURING COSTS WILL BE SUBSIDIARY TO ITEM 501.25 "CONCRETE CLASS B". SEE SPECIAL PROVISIONS FOR INSTALLATION & TESTING DETAILS.

PLOTTED 17-JUL-1989

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of MONTPELIER	Bridge No. ~~X~~ Log Sta. ~~X~~ Surv. Sta. ~~X~~
Highway No. BERLIN STREET	
NEW RETAINING WALLS	
GENERAL NOTES AND JOINT DETAILS	
Designed By P.E.PROVOST	Drawn By P.E. PROVOST
Checked By P.E.PROVOST Date 7/14/89	Bridge Design Supervisor R.P.GENDRON Date 7/89
PROJECT MONTPELIER - BERLIN ST.	PROJECT NO. MEGC-MG400(7)
I.G.C. Info. ZFA\C30,44376B033SC.DGN	MONTWL.PRF
Bridge Sheet No. 2 OF 10	Sheet 104 of 335

13+64 RT BEGIN New Concrete Stairway w/ Metal Handrail.

13+64 Rt. Extend New Wall 19' from Corner of new Wall Along edge of Drive.

13+11 RT BEGIN New 5' Concrete Stairway w/metal handrail.

13+06 Rt. Extend new Wall 22' from Corner of new Wall along Drive.

12+94 Extend New Rt. wall Up Drive 14' from corner of new Wall.

12+77 RT BEGIN New 5' Concrete Stairway w/metal handrail.

12+25 RT BEGIN New 5' Concrete Stairway w/metal handrail.

11+98 Rt. Extend New Wall to existing Wall.

11+98.51 Rt. Const. Joint

11+85 Rt. Existing Granite curb Remove & Reset

Sta. 11+37 Wall #1 Begin Retaining Top of Wall 541.09

Toolans Wall

8.5'

Sta. 11+47 Rt. Match new Wall to existing Granite Wall. Remove and Reset Granite wall to match new Concrete Wall Elevation. BEGIN CONCRETE STAIRWAY W/METAL HANDRAIL

Sta. 11+45.5

Type 6 Sidewalk Ramp. 11+45 – 11+51

Bag. Conc. Curb 11+51 Rt.

14+02 Rt. existing Concrete Wall.

Extend New wall to back of Footing

Remove & Discard Broken Section of Existing Wall. Fill in hole, topsoil & seed Surface Sta. 14+03.5

13+69.5 Rt. Const. joint

13+28.5 Rt. Const. joint

14+02 Rt. End Retaining Wall.

14+00

13+58 Rt. Paved Dr.

13+00

13+00 Rt. Paved Dr.

19'-6" TO FACE OF WALL (TYPICAL)

14'-0" TO FACE OF CURB (TYPICAL)

½" EXP. MATERIAL COST SUBSID. TO SOC. CLASS B (TYP.)

5'-0"

4'-0"

type 6 sidewalk ramp. 12+23 – 12+29

2" ϕ PVC Conduit

11+92 Rt. Paved Dr.

12+00

(1) 1½" ϕ PVC Conduit For Ground.

(2) 2" ϕ PVC Conduits from Traffic Signal.

2" ϕ PVC Conduit from Ped. Pole base.

℄ Berlin St.

To Berlin

To Montpelier

Plan Scale: 1" = 10'-0"

Stairway #5 13+64 – 13+70 Rt.

Stairway #4 13+11 – 13+23 Rt.

Stairway #3 12+77 – 12+90 Rt.

Stairway #2 12+25 – 12+40 Rt.

Stairway #1 11+47 – 11+53 Rt.

11+47 Rt. Bag. Retaining Wall.

Aluminum ONE-Section "Walk-Dont Walk" Ped. Head.

Aluminum ONE Section Ped. head

12" Diam. Traffic Signal Pole (New) Anchored to top of new Wall.

8' Pedestrian Signal Pedestal Post on 24" square 4' deep Reinforced concrete base Ele. 541.09

8" Ped. Post on 24" square 4' deep Reinf. Conc. base. @ 12+20

Butt into existing wall

Sta. 11+47 Rt.

LEVEL LANDING EL. 548.06 39

TOP OF WALL EL. 548.56 Sta. 14+02

FINISH GRADE EL. 546.21 @ FACE OF WALL. STA. 14+02 10.8

TOP OF WALL EL. 548.56 Sta. 13+64 13+69

TOP OF WALL EL. 542.52 Sta. 13+52

TOP OF WALL EL. 543.94 Sta. 13+49.50

LEVEL LANDING EL. 547.44

LEVEL LANDING EL. 543.94

TOP OF WALL EL. 542.51 543.94 Sta. 13+06

TOP OF WALL EL. 543.94 Sta. 13+07

TOP OF WALL EL. 542.51 Sta. 12+94

LEVEL LANDING EL. 545.01

LEVEL LANDING EL. 542.51

Top of Wall @ Sta. 12+40 El. 541.60

Top of Wall EL. 542.09

LEVEL LANDING EL. 545.85

LEVEL LANDING EL. 541.35

TOP OF WALL EL. 541.35 Sta. 11+98

TOP OF WALL EL. 536.34 Pedestrian signal @ 11+53.5 Rt.

TOP OF WALL EL. 536.34 Sta. 11+86

LEVEL @ 11+84 Rt.

LEVEL LANDING, TOP OF WALL EL. 537.84

EDGE OF EXISTING GRANITE RETAINING WALL.

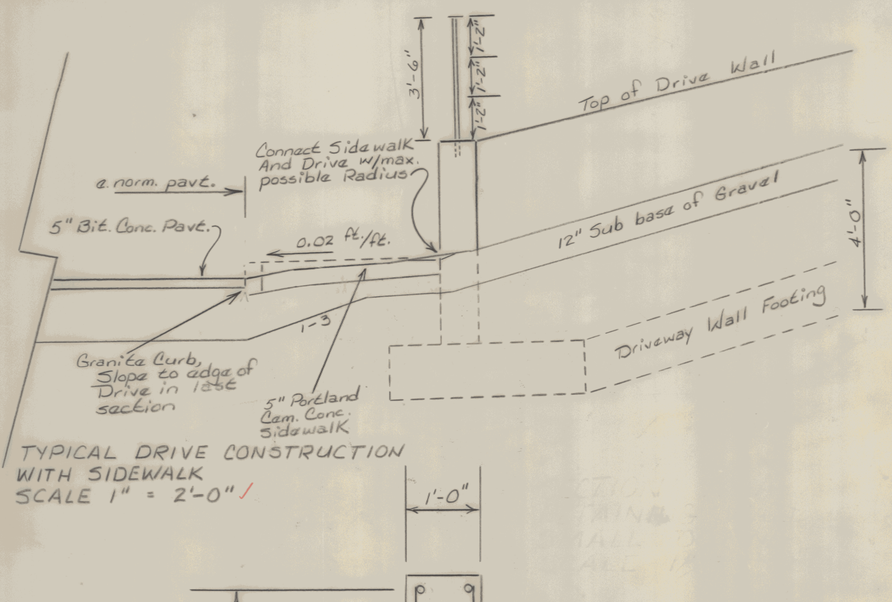
GRADE LINE @ FACE OF WALL EL. 534.34

EL. 530.51 Bot. of Footing line

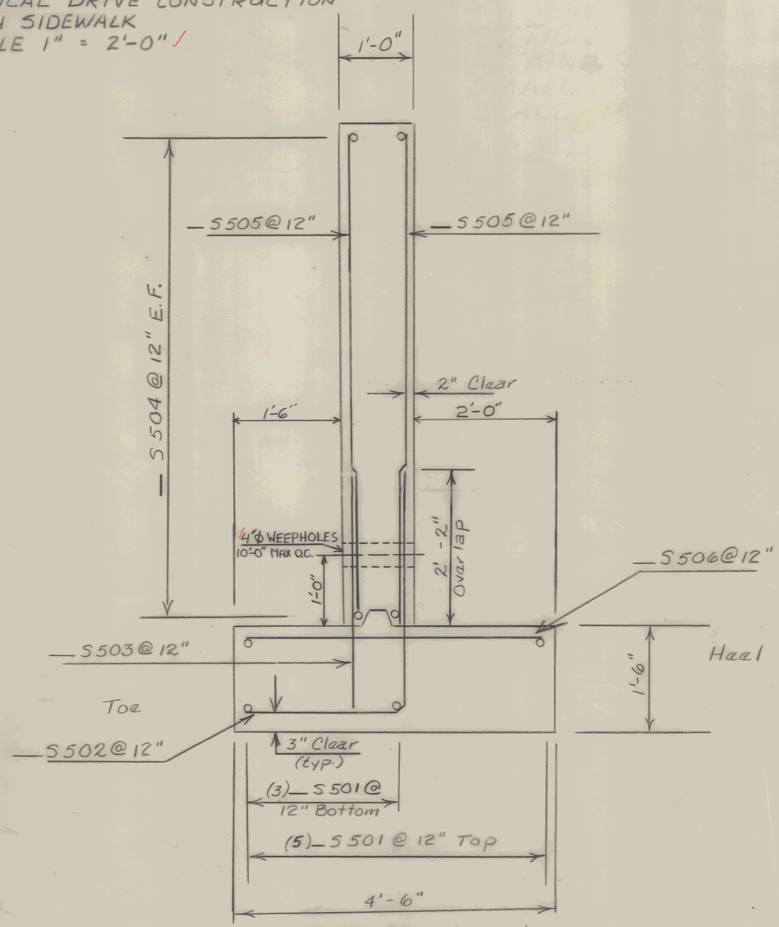
LEVEL

LEVEL

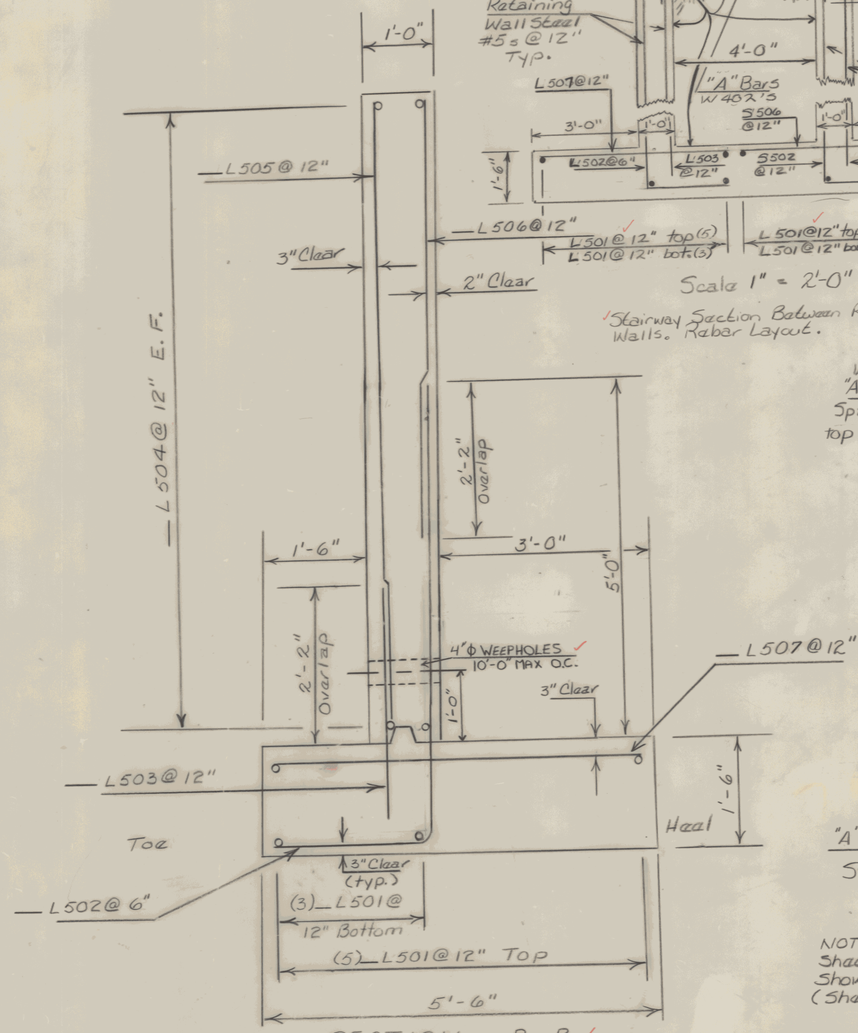
LEVEL



TYPICAL DRIVE CONSTRUCTION
WITH SIDEWALK
SCALE 1" = 2'-0" ✓



SECTION A-A ✓
RETAINING WALL, SMALL
FOOTING SCALE 1" = 1'-0"

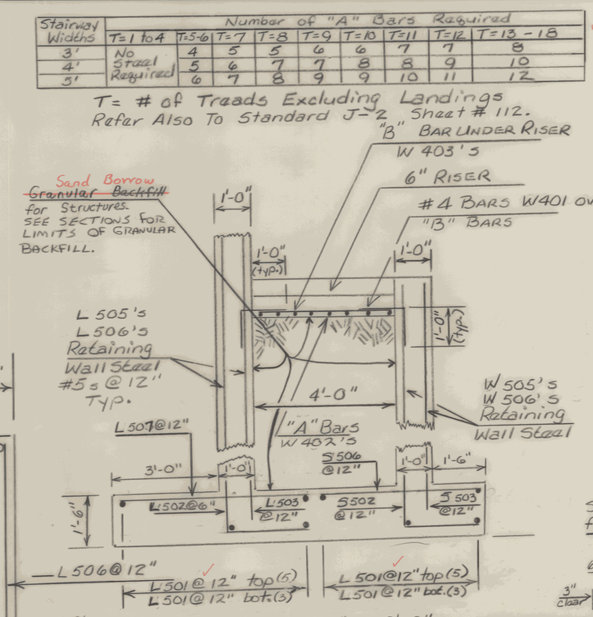


SECTION B-B ✓
RETAINING WALL, LARGE
FOOTING SCALE 1"=1'-0"

Stairway Widths	Number of "A" Bars Required								
	T=1 to 4	T=5-6	T=7	T=8	T=9	T=10	T=11	T=12	T=13 - 15
3'	No Steel Required	4	5	5	6	6	7	7	8
4'		5	6	7	7	8	8	9	10
5'		6	7	8	9	9	10	11	12

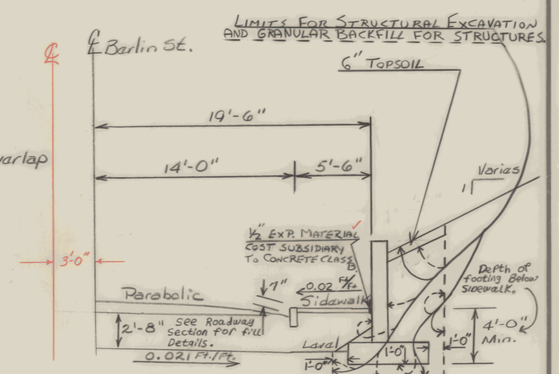
✓

T= # of Treads Excluding Landings
Refer Also To Standard J-2 Sheet # 112.

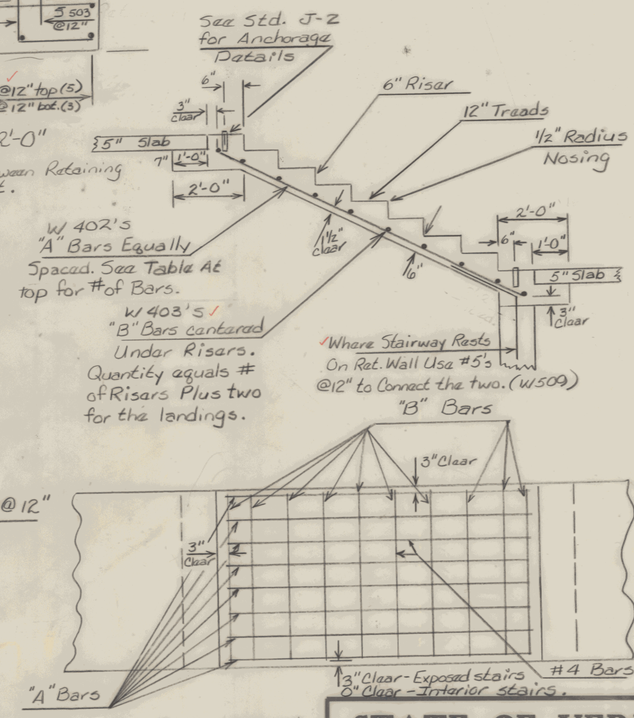


Scale 1" = 2'-0"

✓Stairway Section Between Retaining Walls. Rebar Layout.



Sta. 11+43 To 14+02 ℄ Rt.
Typical Section @ Retaining Wall
Scale 1" = 5'-0"



Stairway Rebar Layout
Scale 1" = 2'-0"

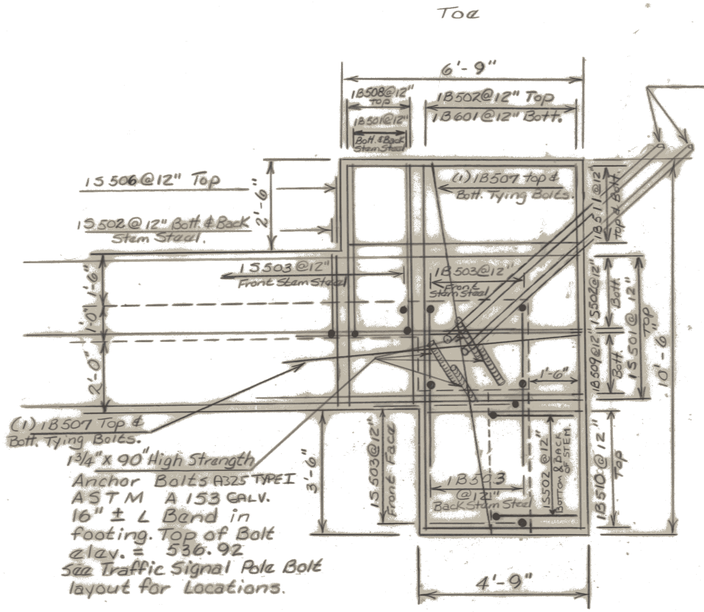
NOTE: Information On This Sheet Precedes Details Shown on Standard J-2 (Sheet 10 of 10.)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of Montpelier	Bridge No. / Log Sta. / Super. Sta.
Highway No. Barlin St.	
Typical Sections And Stairway Rebar layout.	
Designed By P. Provost	Drawn By rmw
Checked By P.E. PROVOST Date 7/89	Bridge Design Supervisor R.P. Gendron Date 7/89
PROJECT Montpelier-Barlin St.	PROJECT NO. MEGC M6400(7)
L.G.C. Info. N/A.	
Bridge Sheet No. 4 of 10.	Sheet 106 of 335

BRUNING 44-232 73216

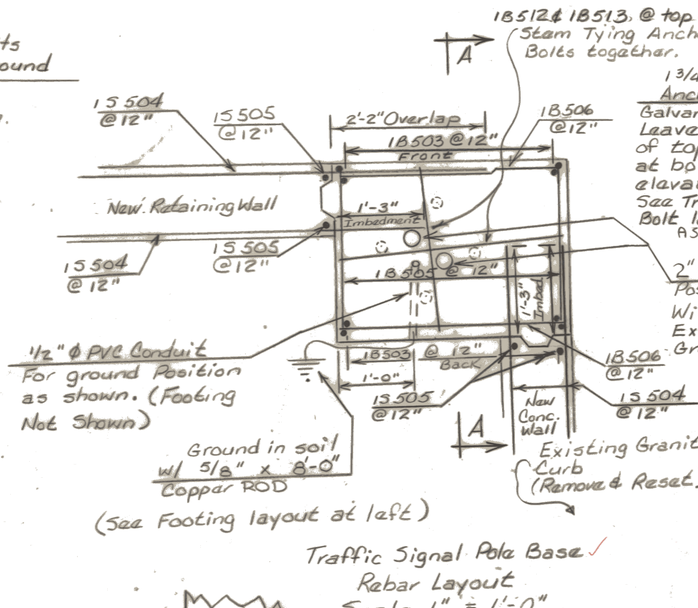
BR-6



(1) 1B507 Top & Bott. Tying Bolts.
1 3/4" x 90" High Strength Anchor Bolts A325 TYPE I ASTM A 153 GALV. 16" ± L Bend in footing. Top of Bolt elev. = 536.92
See Traffic Signal Pole Bolt layout for Locations.

(2) 2" ϕ PVC Conduits Exit 2'0" Below Ground Laval and are placed as shown.

Traffic Signal Pole Base ✓
Footing Rebar
Scale 1/2" = 1'-0"

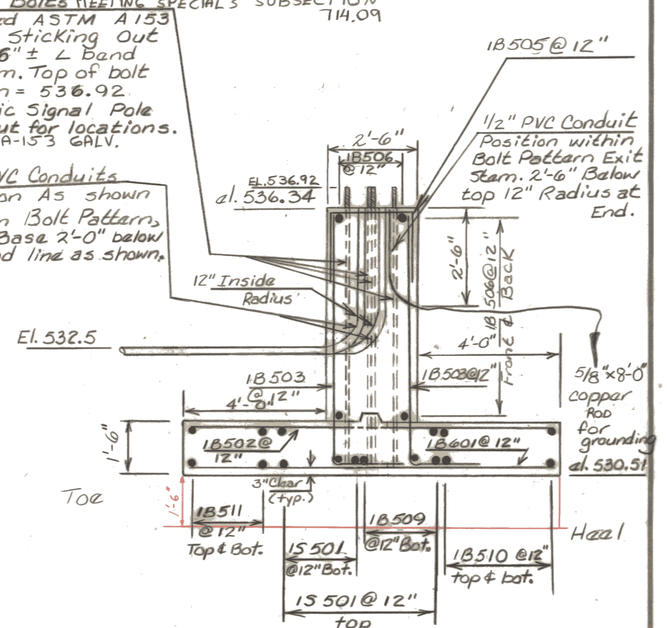


(See Footing layout at left)

1 3/4" x 90" High Strength (A325 TYPE I) Anchor Bolts MEETING SPECIALS SUBSECTION 714.09
Galvanized ASTM A 153
Leave 7" Sticking Out of top. 16" ± L Band at bottom. Top of bolt elevation = 536.92
See Traffic Signal Pole Bolt layout for locations.
ASTM A-153 GALV.

2" ϕ PVC Conduits Position As shown Within Bolt Pattern, Exit Base 2'-0" below Ground line as shown.

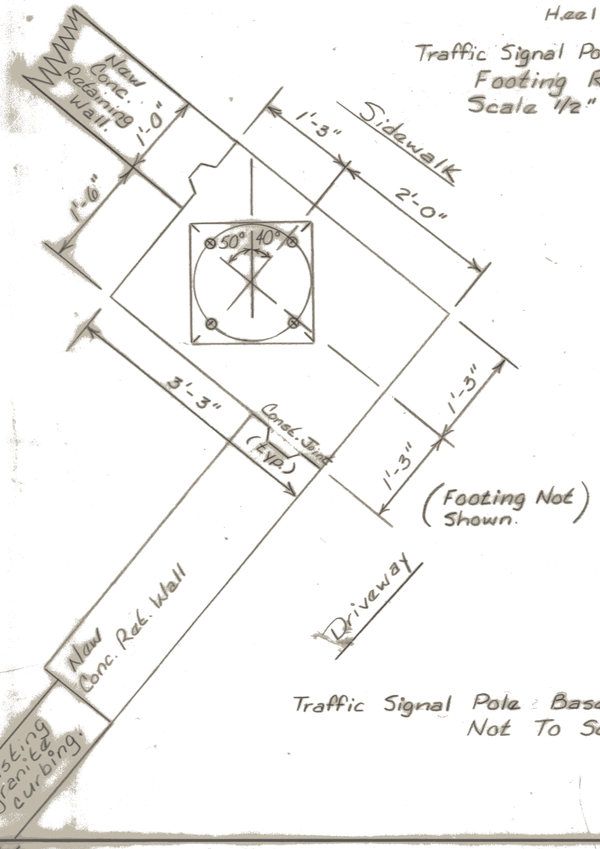
Traffic Signal Pole Base ✓
Rebar Layout
Scale 1" = 1'-0"



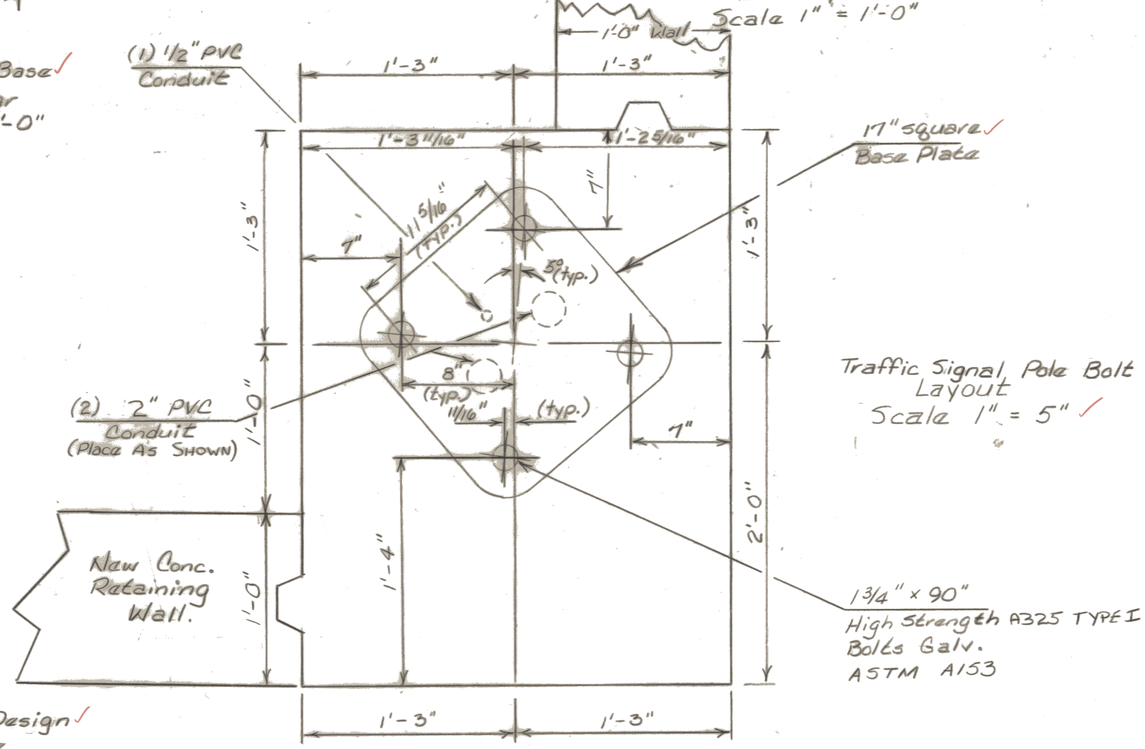
SECTION A-A
TRAFFIC SIGNAL POLE BASE
SCALE 1/2" = 1'-0"

Lowered Footing in this area
Footing Thickness 3'-0"

SEE ROADWAY PLANS FOR POST ANCHORAGE DETAILS. SHEET 138 OF 327.



Traffic Signal Pole Base Design ✓
Not To Scale



(footing Not Shown)

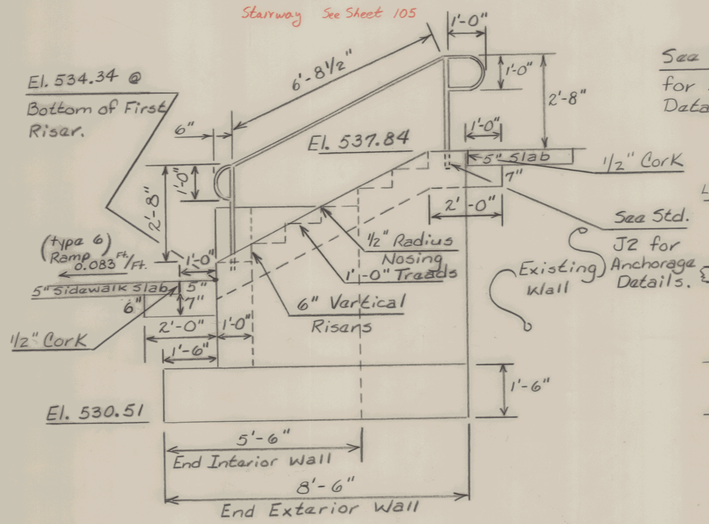
Traffic Signal Pole Bolt Layout
Scale 1" = 5" ✓

STATE OF VERMONT
AGENCY OF TRANSPORTATION

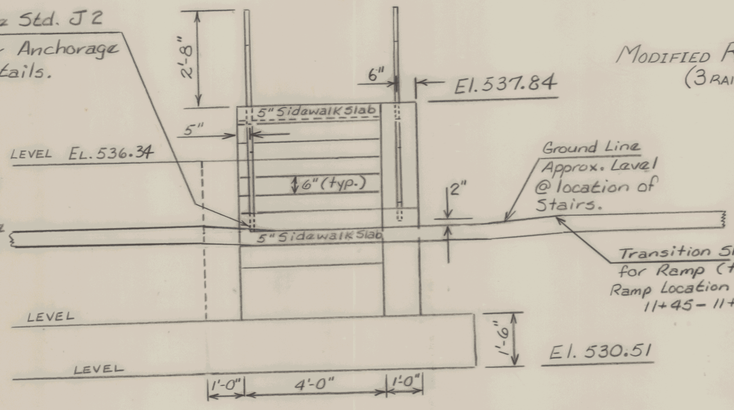
Town Of Montpelier	Bridge No.
Highway No. Barlin St.	Log Sta. / Surv. Sta.
Traffic Signal Pole Base Details.	
Designed By P.E. Provost	Drawn By RMW
Checked By P.E. Provost Date 7/89	Bridge Design Supervisor R.P. Gardner Date 7/89
PROJECT Barlin Street MONTPELIER	PROJECT NO. MEGC M6400(7)
L.G.C. Info.	
Bridge Sheet No. 5 OF 10	Sheet No. 107 of 335

BRUNING 44-232 73216
BR-6

Added 6 Stairs to this Stairway See Sheet 105

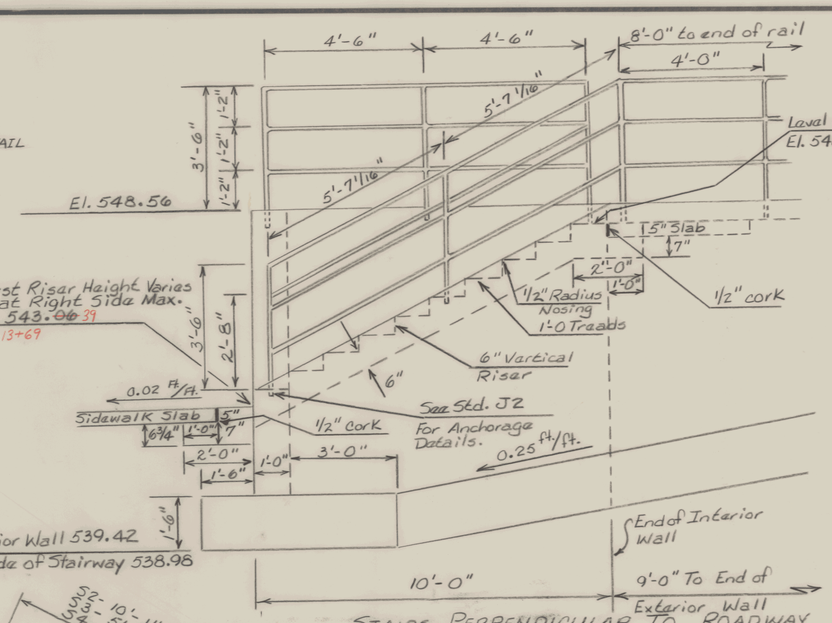


STAIRWAY AT STA. 11+47~11+53
STAIRWAY NO. 1
SIDE VIEW SCALE 1"=2'-0"

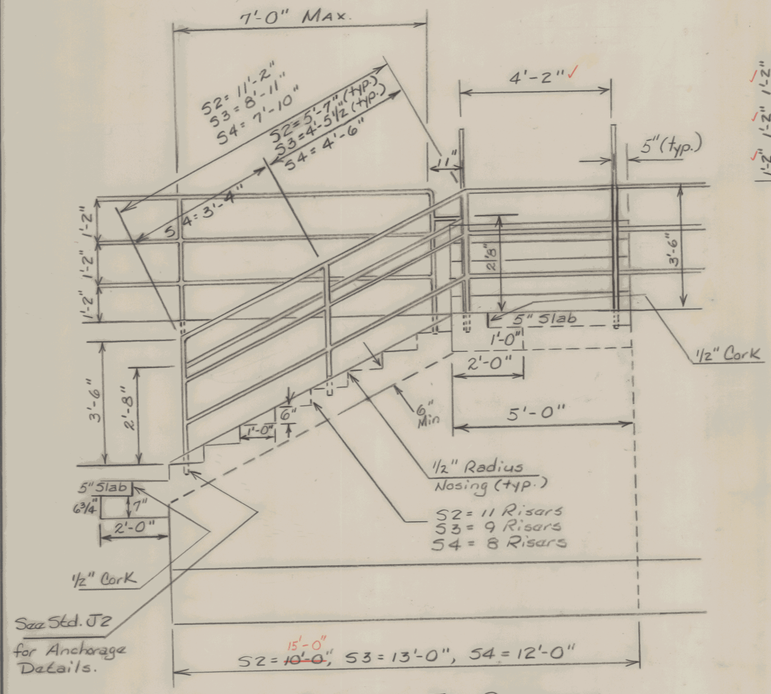


STAIRWAY AT STA. 11+47~11+53
STAIRWAY NO. 1 ✓
FRONT VIEW SCALE 1"=2'-0"

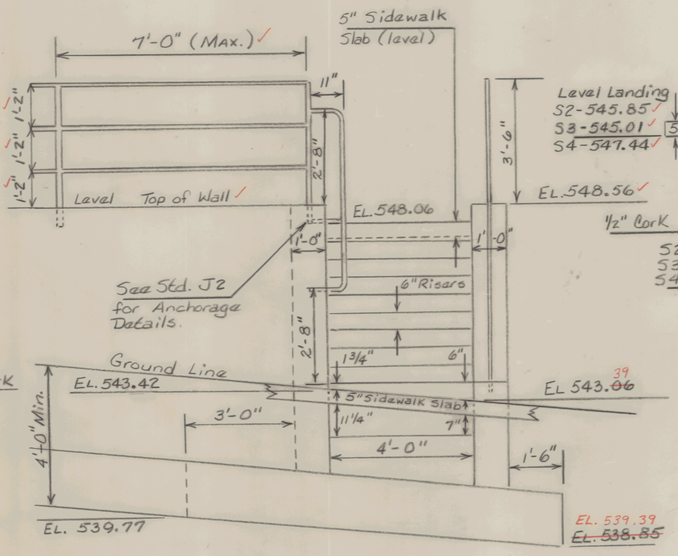
MODIFIED RAIL DETAIL
(3 RAIL)



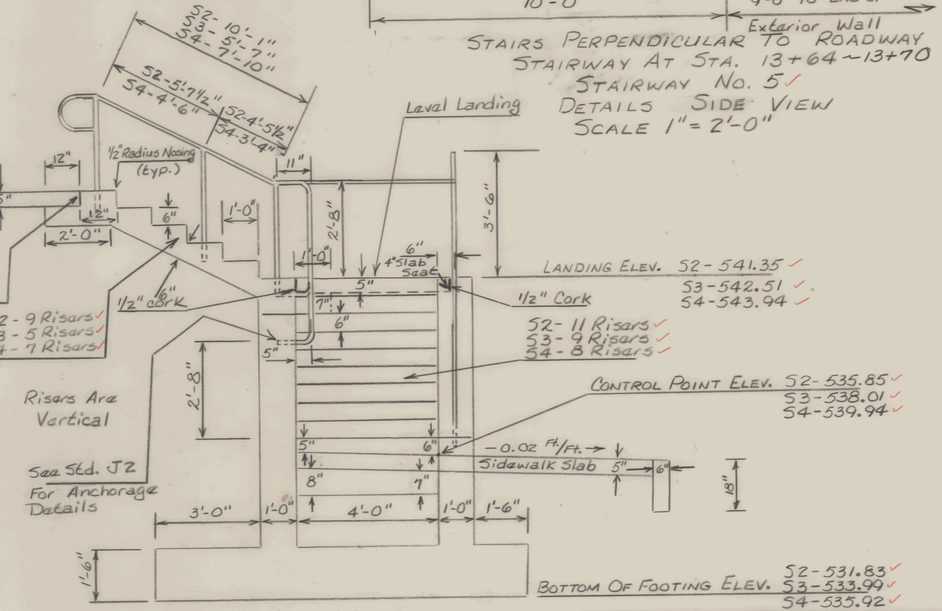
STAIRS PERPENDICULAR TO ROADWAY
STAIRWAY AT STA. 13+64~13+70
STAIRWAY NO. 5 ✓
DETAILS SIDE VIEW
SCALE 1"=2'-0"



STAIRS PARALLEL TO ROADWAY
STAIRWAY NOS. 2, 3, & 4
FRONT VIEW SCALE 1"= 2'-0"



STAIRS PERPENDICULAR TO ROADWAY
STAIRWAY AT STA. ~~13+64 - 13+70~~ 13+69 ~ 13+74
STAIRWAY NO. 5
DETAILS SCALE 1"=2'-0"
FRONT VIEW



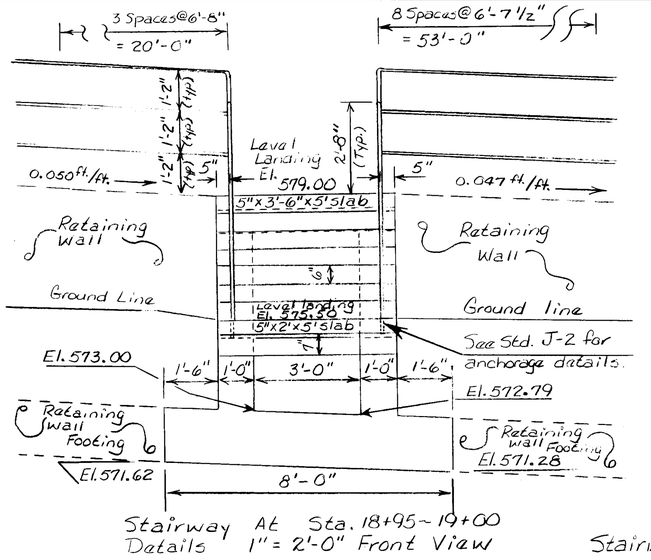
STAIRS PARALLEL TO ROADWAY ✓
STAIRWAY NOS. 2, 3 & 4
SIDE VIEW SCALE 1"= 2'-0"

STATE OF VERMONT
AGENCY OF TRANSPORTATION

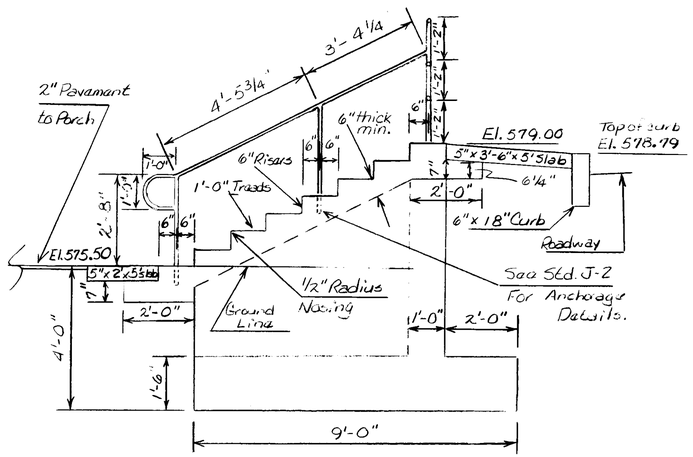
Town Of MONTPELIER	Bridge No. / Log Sta. / Surv. Sta.
Highway No. BERLIN ST.	
STAIRWAYS 1~5 DETAILS.	
Designed By P. PROVOST	Drawn By rmw
Checked By P.E. Provost Date 7/89	Bridge Design Supervisor R.P. Gardner Date 7/89
PROJECT MONTPELIER-BERLIN ST	PROJECT NO. MEGC M6400(7)
L.G.C. Info.	
Bridge Sheet No. 6 OF 10	Sheet 108 of 335

BRUNING 44-232 73216

BR-6

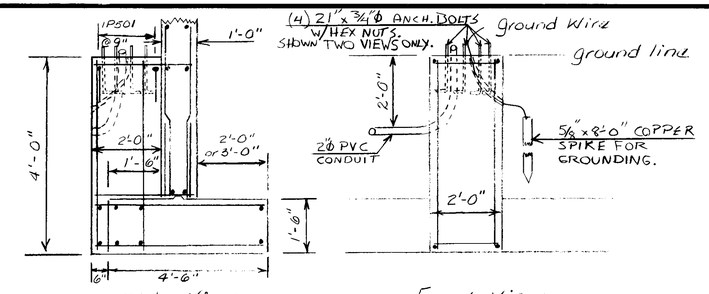


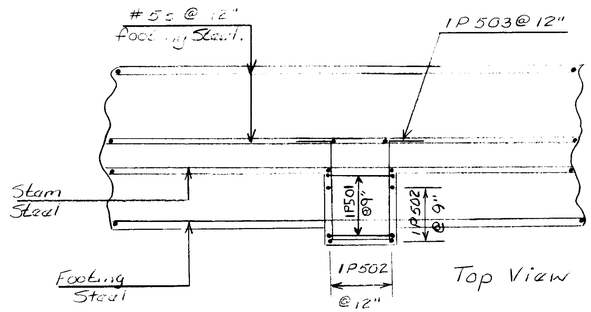
Stairway At Sta. 18+95 ~ 19+00
Details 1" = 2'-0" Front View



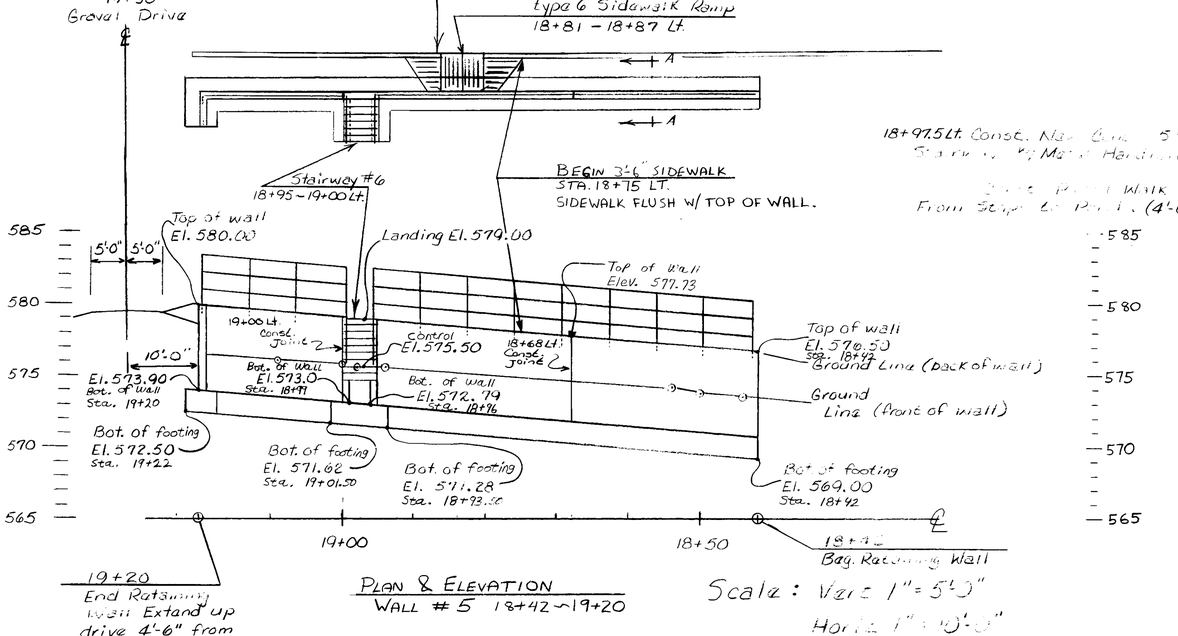
Stairway At Sta. 18+95 ~ 19+00
Details 1" = 2'-0" Side View

Stairway No. 6





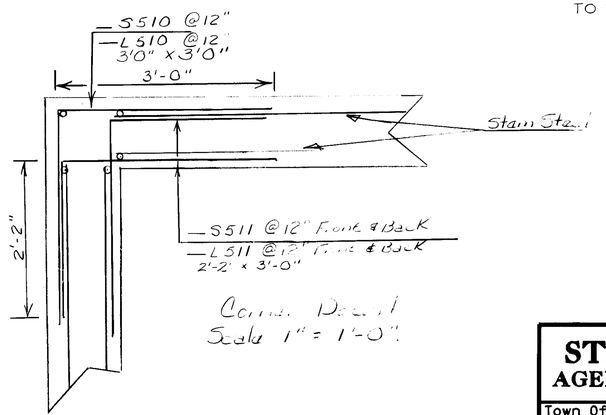
Pedestrian Signal Base Detail
Sta. 11+53.5 and 12+20 Rt.
Scale 1" = 2'-0"



Plan & Elevation
Wall # 5 18+42 ~ 19+20

Scale: Vert 1" = 5'-0"
Horiz 1" = 10'-0"

FRONT FACE OF ALL WALLS TO BE FORMED TO PRODUCE A TEXTURED SURFACE, SEE PROJECT GENERAL NOTES FOR SPECIFICATIONS. FRONT FACE OF THIS WALL IS THAT WHICH FACES THE EXISTING HOUSE.



Corner Detail
Scale 1" = 1'-0"

NOTES:

- SEE STANDARD E-170 IN ROADWAY PLANS FOR SIGNAL POST ANCHORAGE DETAILS.
- STAIR TREADS WILL HAVE LIGHTLY BROOMED FINISH. DIRECTION OF BROOMING SHALL BE PERPENDICULAR TO THE RISERS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of MORRISTOWN	Bridge No. / Log Sta. / Surv. Sta.
Highway No. 11	
Retaining Wall #5 Stairway #6 Details	
PLAN & ELEVATION	
Designed By P.E. Provost	Drawn By [illegible]
Checked By P.E. Provost Date 7/89	Bridge Design Supervisor R.P. Gardner Date 7/89
PROJECT Morristown Bridge St.	PROJECT NO. MEGC M6400(7)
I.G.C. Info. N/A	
Bridge Sheet No. 7 OF 10	Sheet 109 of 335

BRUNING 44 232 7321G

BR-6

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2																	
3				WALL # 1 STA. 11+45.5 — 11+85.5 RT.													
4																	
5	8	5	41-6	1S501A	Str.												
6	9*	5	8-0	1S501B	Str.												
7	44	5	5-6	1S502	17		2-1	3-5									
8	44	5	3-5	1S503	Str.												
9	5	5	31-0	1S504A	Str.												
10	10	5	3-0	1S504B	Str.												
11	5	5	31-11	1S504C	Str.												
12	90	5	4-1	1S505	Str.												
13	43	5	4-0	1S506	Str.												
14	5	5	6-0	1S510	17		3-0	3-0									
15	10	5	5-2	1S511	17		2-2	3-0									
16																	
17																	
18				STAIRWAY # 1 STA 11+47 — 11+53 RT.													
19																	
20	14	4	2-3	1W401	17		1-0	1-3									
21	6*	4	6-9	1W402	Str.												
22	8	4	3-9	1W403	Str.												
23																	
24	14▲	5	6-6	1W504	Str.												
25	16▲	5	5-7	1W505	Str.												
26																	
27																	
28				TRAFFIC SIGNAL BASE STA. 11+80.75 — 11+87.5 RT.													
29																	
30	3	5	9-10	1B501	17		4-6	5-4									
31	5	5	10-0	1B502	Str.												
32	8	5	7-6	1B503	17		2-2	5-4									
33	10	5	2-0	1B505	Str.												
34	10	5	2-9	1B506	Str.												
35	4	5	10-4	1B509	Str.												
36	4*	5	6-6	1B508	Str.												
37	3	5	8-9	1B509	Str.												
38	4	5	4-3	1B510	Str.												
39	3	5	6-3	1B511	Str.												
40	2	5	2-1	1B512	Str.												
41	2	5	2-10	1B513	Str.												
42																	
43	4	5	5-6	1S502	17		2-1	3-5									
44	4	5	3-5	1S503	Str.												
45	10	5	5-0	1S504	Str.												
46	10	5	4-0	1S505	Str.												
47																	
48																	
49				PEDESTRIAN SIGNAL BASE STA. 11+53.5 RT.													
50																	
51	3	5	3-6	1P501	17		1-0	1-6	1-0								
52	9	5	3-6	1P502	Str.												
53	4	5	9-0	1P503	S4	1-0	2-9	1-6	2-9		1-0						
54																	
55																	
56				WALL #2 STA. 11+96.5 — 12+40 RT.													
57																	
58	8Ⓐ	5	11-0	2L501A	Str.												
59	8	5	38-0	2L501B	Str.												
60	49	5	8-4	2L502	17		2-1	6-3									
61	49	5	3-5	2L503	Str.												
62	18Ⓐ	5	10-6	2L504A	Str.												
63	18	5	28-0	2L504B	Str.												
64	39▲	5	8-10	2L505	Str.												
65	39▲	5	6-0	2L506	Str.												
66	49	5	5-0	2L507	Str.												
67	9	5	6-0	2L510	17		3-0	3-0									
68	18	5	5-2	2L511	17		2-2	3-0									
69																	
70																	
71				PEDESTRIAN SIGNAL BASE STA. 12+20 RT.													
72																	
73	3	5	3-6	2P501	17		1-0	1-6	1-0								
74	9	5	3-6	2P502	Str.												
75	4	5	9-0	2P503	S4	1-0	2-9	1-6	2-9		1-0						
76																	
77																	
78																	
79																	
80																	

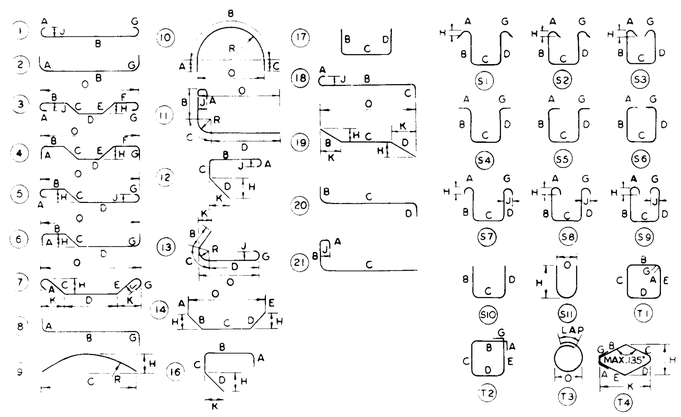
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82																	
83				STAIRWAY # 2 STA. 12+25 — 12+40 RT.													
84																	
85	26	4	2-3	2W401	17		1-0	1-3									
86	8	4	12-4	2W402A	Str.												
87	8	4	10-1	2W402B	Str.												
88	13	4	4-0	2W403A	Str.												
89	12*	4	4-2	2W403B	Str.												
90																	
91	18▲	5	10-2	2W504	Str.												
92	10▲	5	8-3	2W505	Str.												
93	5▲	5	5-5	2W506	Str.												
94	8	5	4-4	2W509	19		2-2	2-2					1-11⅞		0-11⅝		
95																	
96																	
97				WALL # 2 STA. 12+25 — 12+90 RT.													
98																	
99	8	5	18-3	2L501A	Str.												
100	8	5	10-0	2L501B	Str.												
101	8	5	41-0	2L501C	Str.												
102	69	5	8-4	2L502	17		2-1	6-3									
103	69	5	3-5	2L503	Str.												
104	16	5	20-6	2L504A	Str.												
105	16	5	4-0	2L504B	Str.												
106	16	5	16-0	2L504C	Str.												
107	16	5	22-0	2L504D	Str.												
108	66▲	5	8-0	2L505	Str.												
109	66▲	5	5-2	2L506	Str.												
110	69	5	5-0	2L507	Str.												
111	16	5	6-0	2L510	17		3-0	3-0									
112	32	5	5-2	2L511	17		2-2	3-0									
113																	
114																	
115				STAIRWAY # 3 STA. 12+77 — 12+90 RT.													
116																	
117	22	4	2-3	3W401	17		1-0	1-3									
118	7	4	10-1	3W402A	Str.												
119	6	4	5-7	3W402B	Str.												
120	11	4	4-0	3W403A	Str.												
121	4	4	4-6	3W403B	Str.												
122																	
123	16▲	5	5-0	3W504	Str.												
124	8▲	5	7-6	3W505	Str.												
125	3▲	5	4-8	3W506	Str.												
126	6	5	4-4	3W509	19		2-2	2-2					1-11⅞		0-11⅝		
127																	
128																	
129				WALL # 2 STA. 12+77 — 12+95.5 RT.													
130																	
131	8Ⓐ	5	15-6	2S501	Str.												
132	15	5	5-6	2S502	17		2-1	3-5									
133	15	5	3-5	2S503	Str.												
134	16Ⓐ	5	14-0	2S504	Str.												
135	16	5	9-6	2S505	Str.												
136	16	5	4-0	2S506	Str.												
137																	
138	8	5	14-0	2L501	Str.												
139	17	5	8-4	2L502	17		2-1	6-3									
140	17	5	3-5	2L503	Str.												
141	16	5	15-6	2L504	Str.												
142	17▲	5	9-6	2L505	Str.												
143	17▲	5	4-8	2L506	Str.												
144	14	5	5-0	2L507	Str.												
145	8	5	6-0	2L510	17		3-0	3-0									
146	16	5	5-2	2L511	17		2-2	3-0									
147																	
148																	
149				WALL #3 STA. 13+04.5 — 13+23 RT.													
150																	
151	8Ⓐ	5	18-0	3S501	Str.												
152	22	5	5-6	3S502	17		2-1	3-5									
153	22	5	3-5	3S503	Str.												
154	14Ⓐ	5	21-0	3S504	Str.												
155	44▲	5	6-0	3S505	Str.												
156	19	5	4-0	3S506	Str.												
157																	
158	8	5	18-0	3L501	Str.												
159	18	5	8-4	3L502	17		2-1	6-3									
160	18	5	3-5	3L503	Str.												

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161	16	5	10-0	3L504	Str.												
162	18▲	5	7-0	3L505	Str.												
163	18▲	5	4-2	3L506	Str.												
164	19	5	5-0	3L509	Str.												
165	8	5	6-0	3L510	17		0-3	0									
166	16	5	5-2	3L511	17		2-2	3									
167																	
168																	
169				STAIRWAY # 4 STA. 13+11 — 13+21 RT.													
170																	
171	21	4	2-3	4W401	17		1-0	1-3									
172	6	4	9-0	4W402A	Str.												
173	6	4	7-10	4W402B	Str.												
174	10	4	4-0	4W403A	Str.												
175	9	4	4-6	4W403B	Str.												
176																	
177	16▲	5	7-0	4W504	Str.												
178	8▲	5	9-2	4W505	Str.												
179	3▲	5	4-2	4W506	Str.												
180	6	5	4-4	4W509	19		2-2	2-2					1-11⅞		0-11⅝		

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

TYPICAL BAR BENDS



NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE"
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN

Ⓐ BARS TO BE CUT IN FIELD.

▲ DENOTES BARS TO BE CUT IN FIELD.

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

REV NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF MONTPELIER	BRIDGE NO. ~~X~~
HIGHWAY NO. BERLIN ST.	LOG STA. ~~X~~
	SURV. STA.

BERLIN ST. RETAINING WALL

REINFORCING STEEL SCHEDULE

DESIGNED BY P.E. PROVOST	DRAWN BY R.M. WALKER
CHECKED BY P.E. PROVOST DATE 7/69	BRIDGE DESIGN SUPERVISOR R.P. GANDINI DATE 1/69
PROJECT MONTPELIER - BERLIN ST.	PROJECT NO. MEGL-M0400(7)
BRIDGE SHEET NO. 8 OF 10	SHEET 110 OF 335

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2																	
3					WALL #3 STA. 13+11 ~ 13+52 RT.												
4																	
5	8	5	20-6	3L501A	Str.												
6	8	5	25-0	3L501B	Str.												
7	49	5	8-4	3L502	17		2-1	6-3									
8	49	5	3-5	3L503	Str.												
9	16	5	17-6	3L504A	Str.												
10	14	5	4-6	3L504B	Str.												
11	14▲	5	23-0	3L504C	Str.												
12	19▲	5	9-0	3L505A	Str.												
13	30▲	5	6-0	3L505B	Str.												
14	19▲	5	4-2	3L506A	Str.												
15	23▲	5	3-2	3L506B	Str.												
16	49	5	5-0	3L507	Str.												
17	15	5	6-0	3L510	17		3-0	3-0									
18	30	5	5-2	3L511	17		2-2	3-0									
19																	
20																	
21					STAIRWAY #5 STA. 13+64 ~ 13+70 RT.												
22																	
23	22	4	2-3	5W401	17		1-0	1-3									
24	7	4	11-2	5W402	Str.												
25	12	4	4-0	5W403	Str.												
26																	
27	18▲	5	10-0	5W504	Str.												
28	18▲	5	9-9	5W505	Str.												
29																	
30																	
31					WALL #4 STA. 13+62.5 ~ 14+03.5 RT.												
32																	
33	8	5	15-0	4S501	Str.												
34	19	5	5-6	4S502	17		2-1	3-5									
35	19	5	3-5	4S503	Str.												
36	14	5	9-0	4S504	Str.												
37	20▲	5	6-6	4S505	Str.												
38																	
39	8	5	41-6	4L501A	Str.												
40	8	5	6-0	4L501B	Str.												
41	48▲	5	8-4	4L502	17		2-1	6-3									
42	48	5	3-5	4L503	Str.												
43	16	5	3-0	4L504A	Str.												
44	16	5	9-0	4L504B	Str.												
45	16	5	33-0	4L504C	Str.												
46	10▲	5	9-6	4L505A	Str.												
47	38▲	5	9-0	4L505B	Str.												
48	10▲	5	4-8	4L506A	Str.												
49	34▲	5	4-2	4L506B	Str.												
50	49	5	5-0	4L507	Str.												
51	14	5	6-0	4L510	17		3-0	3-0									
52	28	5	5-2	4L511	17		2-2	3-0									
53																	
54																	
55					WALL #5 STA. 18+42 ~ 19+21.5 LT.												
56																	
57	8	5	81-8	5S501A	Str.												
58	8	5	2-0	5S501B	Str.												
59	8	5	4-6	5S501C	Str.												
60	97	5	5-6	5S502	17		2-1	3-5									
61	97	5	3-5	5S503	Str.												
62	14	5	99-2	5S504A	Str.												
63	14	5	3-6	5S504B	Str.												
64	166▲	5	6-0	5S505	Str.												
65	94	5	4-0	5S506	Str.												
66	21	5	6-0	5S510	17		3-0	3-0									
67	42	5	5-2	5S511	17		2-2	3-0									
68																	
69																	
70					STAIRWAY #6 STA. 18+95 ~ 19+00 LT.												
71																	
72	14	4	2-3	6W401	17		1-0	1-3									
73	6	4	7-10	6W402	Str.												
74	9	4	4-6	6W403	Str.												
75																	
76	28▲	5	5-9	6W504	Str.												
77	28▲	5	6-0	6W505	Str.												
78																	
79																	
80																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82																	
83																	
84																	
85																	
86																	
87																	
88																	
89																	
90																	
91																	
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157																	
158																	
159																	
160																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161																	
162																	
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
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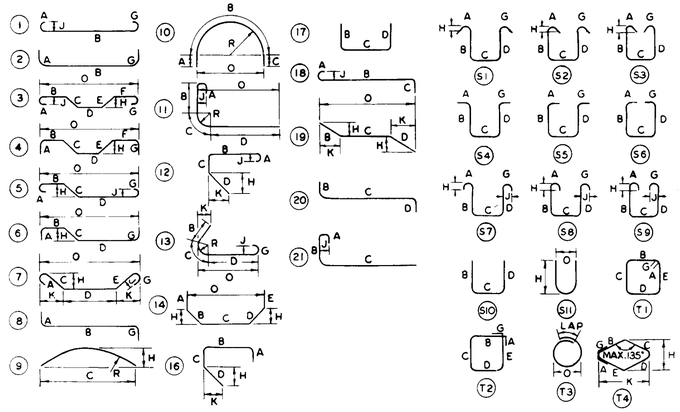
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

TYPICAL BAR BENDS



NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A 615-81). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

Ⓐ BEND TO FIT IN FIELD.

▲ DENOTES BARS TO BE CUT IN FIELD.

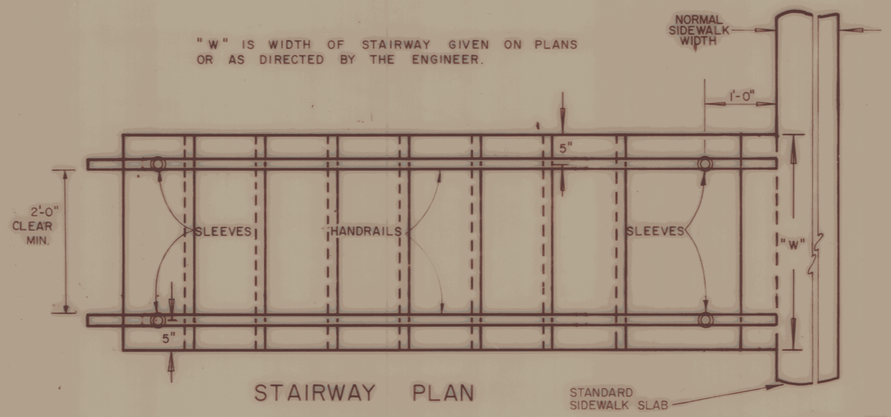
✱ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

REV NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF MONTPELIER	BRIDGE NO.
HIGHWAY NO. BERLIN ST.	LOG STA. / SURV. STA.
BERLIN ST. RETAINING WALLS	
REINFORCING STEEL SCHEDULE	
DESIGNED BY P.E. Provost	DRAWN BY R.M. Walker
CHECKED BY P.E. Provost DATE 7/89	BRIDGE DESIGN SUPERVISOR R.P. Gaudreau DATE 7/89
PROJECT MONTPELIER – BERLIN ST.	PROJECT NO. MEGC-M6400(7)
BRIDGE SHEET NO. 9 OF 10 SHEET 111 OF 335	



STAIRWAY PLAN

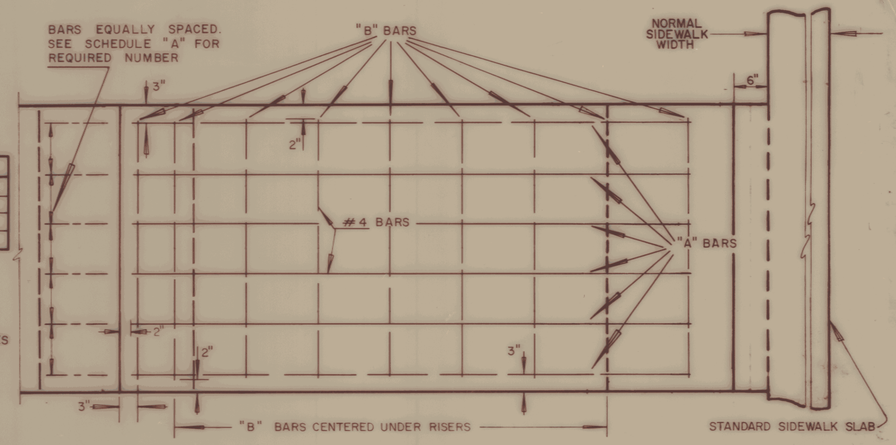
SCHEDULE "A" REINFORCING STEEL

STAIRWAY WIDTHS	NUMBER OF "A" BARS REQUIRED							
	T = 1 - 5	T=6	T=7	T=8	T=9	T=10	T=11	T=12	T = 12 – 18
3'	NO STEEL REQUIRED	4	5	5	6	6	7	7	8
4'		5	6	7	7	8	8	9	10
5'		6	7	8	9	9	10	11	12

T = THE NUMBER OF TREADS EXCLUDING THE LANDING

THE NUMBER OF "B" BARS IS EQUAL TO THE NUMBER OF RISERS PLUS TWO BARS.

FOR OTHER WIDTHS THE APPROXIMATE SPACING OF "A" BARS IN INCHES WILL BE EQUAL TO 80÷T WITH A MINIMUM SPACING OF 6 INCHES



STEEL PLAN

GENERAL NOTES

WHEN SLOPES FLATTER THAN 1-2 ARE ENCOUNTERED, LANDINGS WILL BE INTRODUCED IN THE STAIRWAY AT SUCH INTERVALS AND DIMENSIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THERE SHALL BE NO MORE THAN 18 RISERS OR LESS THAN 3 RISERS BETWEEN ANY TWO SUCCESSIVE LANDINGS.

RISERS MAY VARY FROM 5" TO 6" AS DIRECTED BY THE ENGINEER, BUT ALL RISERS IN A STAIRWAY SHALL BE THE SAME HEIGHT.
TREADS MAY VARY FROM 9" TO 12" OR AS DIRECTED BY THE ENGINEER, SUCH THAT THE STAIRWAY SLOPE FORMS AN ANGLE WITH THE HORIZONTAL OF 25° TO 30°. ALL TREADS IN A STAIRWAY SHALL BE THE SAME DIMENSION.

ALL WELDED JOINTS SHALL BE FINISHED BY GRINDING OR FILING TO GIVE A NEAT APPEARANCE.
RAIL TO BE PAINTED BLACK AFTER ERECTION.
HAND RAIL IS TO BE MEASURED ALONG THE TOP RAIL.

UNIT PRICE BID PER LINEAL FOOT IS TO BE FOR HAND RAIL COMPLETE IN PLACE, INCLUDING ALL HARDWARE, WELDING AND PAINTING.

TWO RAILINGS ARE REQUIRED FOR ALL STAIRS.

CONCRETE SHALL BE CLASS "B", OR AS DIRECTED BY THE ENGINEER.

NO REINFORCING STEEL WILL BE REQUIRED FOR A STAIRWAY WITH 5 OR FEWER TREADS.

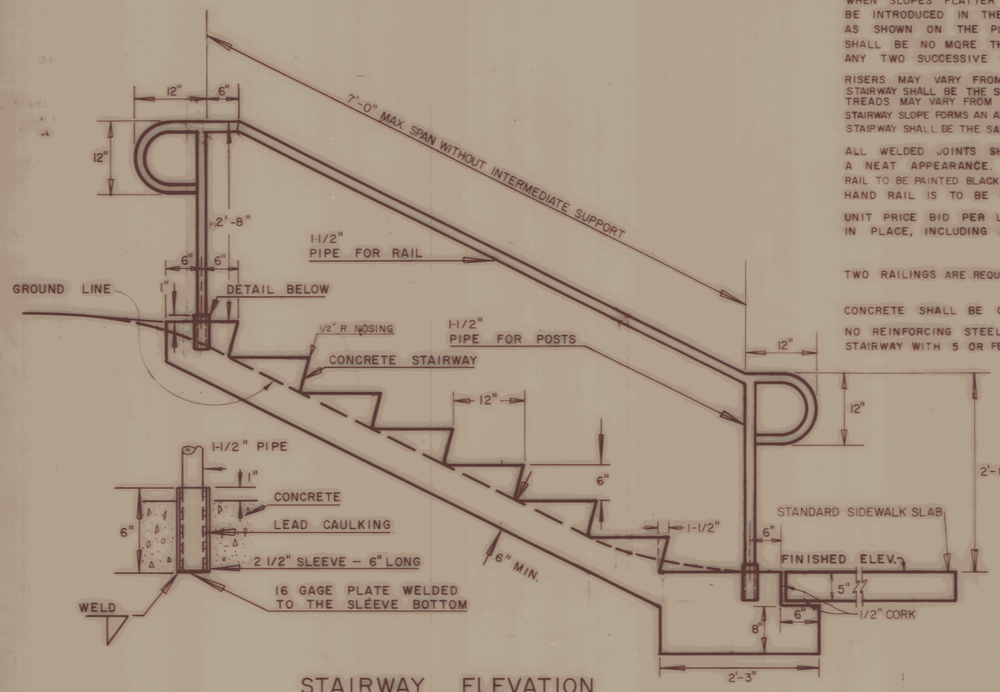
ALL REINFORCING STEEL SHALL BE NO. 4 BARS

CONCRETE CLASS B CUBIC YARDS

NO. RISERS	WIDTH 3'	4'	5'	HAND-RAIL LF
1	0.41	0.55	0.69	7
2	0.50	0.68	0.85	9
3	0.60	0.80	1.00	11
4	0.69	0.92	1.16	13
5	0.78	1.05	1.31	15
6	0.88	1.17	1.47	17
7	0.97	1.30	1.63	19

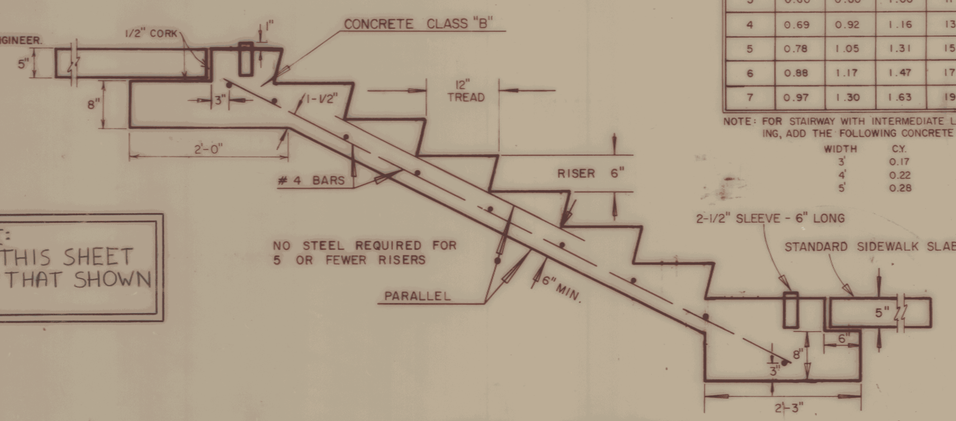
NOTE: FOR STAIRWAY WITH INTERMEDIATE LANDING, ADD THE FOLLOWING CONCRETE VOLUMES:

WIDTH	CY.
3'	0.17
4'	0.22
5'	0.28



STAIRWAY ELEVATION
(WITHOUT INTERMEDIATE LANDING)

NOTICE:
INFORMATION ON THIS SHEET IS PRECEDED BY THAT SHOWN ON THE PLANS.



STEEL ELEVATION
(WITH INTERMEDIATE LANDING)

BRIDGE SHEET 10 OF 10
SHEET 112 OF 335

REVISIONS AND CORRECTIONS

JAN. 23, 1975 – REDESIGN OF CONNECTION OF STAIRS TO WALK
OCT. 30, 1980 – REVISED TREAD AND HANDRAIL DETAILS.
AUG 21, 1981 – MIN CLEAR WIDTH BETWEEN HANDRAILS ADDED, MINOR NOTE CLARIFICATIONS.

APPROVED: DATE Dec. 14, 1971

R.N Crowell
CHIEF ENGINEER

E.H Stickney
ASST. CHIEF ENGINEER

G.M. Lane
HIGHWAY ENGINEER

DRAWN R.F.N.
TRACED GUS AJA

STANDARD CONCRETE STEPS
METAL HAND RAILING

563

VERMONT AGENCY OF TRANSPORTATION

STANDARD
J-2

DURABLE 4" WHITE LINE

~~11+92, 19' LT~12+35, 13' LT~~
~~℄ 80+42~81+00, 4' LT~~
~~12+45, 12' LT~13+18, 9' LT~~
~~RAMP 13+26, 64' LT~13+53, 16' LT~~
~~13+53, LT~14+20, 9' LT~~
~~8+90 RT~11+12, 1' RT (LANE LINE)~~
~~13+60, LT~14+20 LT (DIAGONALS)~~
~~14+20~15+72, 9' LT~~
~~15+72, 9' LT~15+95, 17' LT~~
~~14+20, 9'~17' LT~~
~~14+42, 9'~17' LT~~
~~14+64, 9'~17' LT~~
~~14+86, 9'~17' LT~~
~~15+08, 9'~17' LT~~
~~15+30, 9'~17' LT~~
~~15+52, 9'~17' LT~~
~~15+72, 9'~17' LT~~

TEMPORARY 24" STOP BAR

~~11+12~11+14, 10' LT TO 11+13~11+15, 16' RT~~
~~℄ 80+50~80+52, 21' TO 39' LT~~
~~12+52~12+54, 2' RT TO 12' LT~~
~~RAMP 13+10, 51' TO 53' LT~13+25, 53' TO 55' LT~~
11+80 ~ 80+00 (56')
RIVER ST. COLD PLAN AREA (32')

TEMPORARY 8" WHITE LINE

~~12+47~13+30 LT (DIAGONALS)~~
~~13+18, 9' LT~13+35, 8' LT~~
~~13+22, 19' LT~13+35, 8' LT~~
~~11+98~12+40 LT (DIAGONALS)~~

DURABLE 8" WHITE LINE

~~12+47~13+30 LT (DIAGONALS)~~
~~13+18, 9' LT~13+35, 8' LT~~
~~13+22, 19' LT~13+35, 8' LT~~
~~11+98~12+40 LT (DIAGONALS)~~
~~11+92 ~ 12+35 (GORE)~~

TEMPORARY CROSSWALK W/DIAGONAL LINES

~~11+25~11+33, 40' LT TO 11+43~11+51, 18' RT (8' WIDE)~~
~~11+25~11+33, 40' LT TO 11+30~11+38, 54' LT (8' WIDE)~~
~~12+22~12+30, 17' RT TO 12+41, 28' LT~12+47, 19' LT (8' WIDE)~~
~~℄ 81+62~81+95, 2' LT TO 4' RT (6' WIDE)~~ (23')
13+25 LT (6' WIDE) (21') GRANITE ST. } (6' WIDE)(114')
14+00 ℄ (6' WIDE) (27') BERLIN ST. }
DURABLE CROSSWALK W/DIAGONAL LINES

11+25~11+33, 40' LT TO 11+43~11+51, 18' RT (8' WIDE) (51')
11+25~11+33, 40' LT TO 11+30~11+38, 54' LT (8' WIDE) (19')
12+22~12+30, 17' RT TO 12+41, 28' LT~12+47, 19' LT (8' WIDE) (42')
℄ 81+62~81+95, 2' LT TO 4' RT (6' WIDE) (23')

DURABLE 4" YELLOW LINE

~~8+90, (MATCH EXISTING)~11+14, 11' LT (DBL)~~
~~11+46 LT~ 12+27 RT (DBL) TRAFFIC ISLAND~~
~~12+35, 2' RT~13+60, 3' RT (DBL)~~ 11+90~12+53 ISL. (170')
~~℄ 80+52, 22' LT~82+00 LT (DBL)~~
RAMP~13+00, 57' LT~13+21, 19' LT (42')
RIVER STREET
12+53 ~ 17+00 ℄
~~DURABLE 8" YELLOW LINE (DIAGONAL)~~
~~11+46 ℄ ~ 12+27 RT (TRAFFIC ISLAND)~~

~~4" YELLOW LINE~~

~~13+60~17+00, 3' RT (DBL)~~
~~℄ 82+00 ~ 86+35 ± (DBL) (MATCH EXISTING @ 86+35 ±)~~

DURABLE LETTER OR SYMBOL

8+90~8+98 RT "ONLY" ✓
9+86~9+94 RT "ONLY" ✓
10+88~10+96 RT "ONLY" ✓
℄ 80+70~80+78 LT "ONLY" ✓
℄ 81+85~81+93 LT "ONLY" ✓
RAMP 13+20, 40' TO 48' LT "STOP" ✓
16+61~16+69 LT. "AHEAD" ✓
RIVER ST. "ONLY"
RIVER ST. ARROW
RIVER ST. ARROW

~~9+02~9+10 RT (ARROW)~~
~~9+00~9+10 LT (ARROW)~~
~~9+98~10+06 RT (ARROW)~~
~~9+96~10+06 LT (ARROW)~~
11+00~11+08 RT (ARROW) ✓
10+98~11+08 LT (ARROW) ✓
~~℄ 80+56~80+66 LT (ARROW)~~
~~℄ 81+71~81+81 LT (ARROW)~~
14+66 (I)
15+18 (I)

DURABLE 4" WHITE LINE

76+76 ~ 79+48 RIVER ST (236')
11+92 ~ 12+35 LT (178')
12+30 ~ 17+00 RT (470')
13+26 ~ 13+53 LT (54')
13+53 ~ 15+95 LT (317')

TEMPORARY 4" YELLOW LINE

~~8+90, (MATCH EXISTING)~11+14, 11' LT (DBL)~~
~~11+46 LT~ 12+27 RT (DBL) TRAFFIC ISLAND~~
~~12+35, 2' RT~13+60, 3' RT (DBL)~~
11+80 ~ 15+00 (640')
12+45 ~ 17+00 ℄
~~℄ 80+52, 22' LT~82+00 LT (DBL)~~ RIVER ST. COLD PLAN AREA (1684')
~~RAMP 13+00, 57' LT~13+21, 19' LT~~

REMOVING SIGNS

~~11 32~~ EA.

4" WHITE LINE

~~12+30~17+00, 15' RT~~
80+01 ~ 80+90 (89')

DURABLE 24" STOP BAR

~~11+12~11+14, 10' LT TO 11+13~11+15, 16' RT~~
~~℄ 80+50~80+52, 21' TO 39' LT~~ (17')
~~12+52~12+54, 2' RT TO 12' LT~~
~~RAMP 13+10, 51' TO 53' LT~13+25, 53' TO 55' LT~~
11+03 RT & LT (32')
13+10 LT (16')

~~TEMPORARY LETTER OR SYMBOL~~

~~8+90~8+98 RT "ONLY"~~
~~9+86~9+94 RT "ONLY"~~
~~10+88~10+96 RT "ONLY"~~
~~℄ 80+70~80+78 LT "ONLY"~~
~~℄ 81+85~81+93 LT "ONLY"~~
~~RAMP 13+20, 40' TO 48' LT "STOP"~~
~~16+61~16+69 LT. "AHEAD"~~
~~9+02~9+10 RT (ARROW)~~
~~9+00~9+10 LT (ARROW)~~
~~9+98~10+06 RT (ARROW)~~
~~9+96~10+06 LT (ARROW)~~
~~11+00~11+08 RT (ARROW)~~
~~10+98~11+08 LT (ARROW)~~
~~℄ 80+56~80+66 LT (ARROW)~~
~~℄ 81+71~81+81 LT (ARROW)~~

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1		
IPARM FILE	PETEDS1.PRF	DATE PLOTTED	15-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	113 OF 355 SHEETS		

CONSTRUCT RETAINING WALL
WITH METAL HANDRAIL

LT
18+42 ~ 18+95
19+00 ~ 19+20

CONSTRUCT CONCRETE STAIRWAY
WITH METAL HANDRAIL

LT
18+97.5 (5' WIDE)
19+81 (4' WIDE)
20+59 (4' WIDE)

CONSTRUCT SIDEWALK RAMP

LT	RT
18+84 (TYPE 6)	18+84 (TYPE 6)

PORTLAND CEMENT CONCRETE SIDEWALK-5"

17+00 RT ~ 19+09 RT (5' WIDE)
18+75 LT ~ 19+37 LT (3.5' WIDE)
19+37 LT ~ 21+00 LT (5' WIDE)
19+82 LT (4'WIDE PVT. WALK)
20+59 LT (2'WIDE PVT. WALK)

TRANSPLANTING TREES

19+01 ~ 19+04 RT (LILACS)(EST. 5)
TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.

EVERGREEN TREES

18+42 ~ 19+20 LT (3'~4' CEDAR HEDGE)(EST. 40)
TREES TO BE PLANTED IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND RESIDENT ENGINEER.

DECIDUOUS TREES

19+50 ~ 20+00 LT. (2-1½" SUGAR MAPLES)
(SUGAR MAPLES TO BE PLANTED OUTSIDE OF R.O.W. IN A LOCATION MUTUALLY AGREEABLE WITH THE PROPERTY OWNER AND THE RESIDENT ENGINEER.

DURABLE CROSSWALK W/DIAGONAL LINES (8')
18+80~18+88, 17' LT TO 17' RT (33')
~~TEMPORARY CROSSWALK W/DIAGONAL LINES (8')~~
~~18+80~18+88, 17' LT TO 17' RT~~

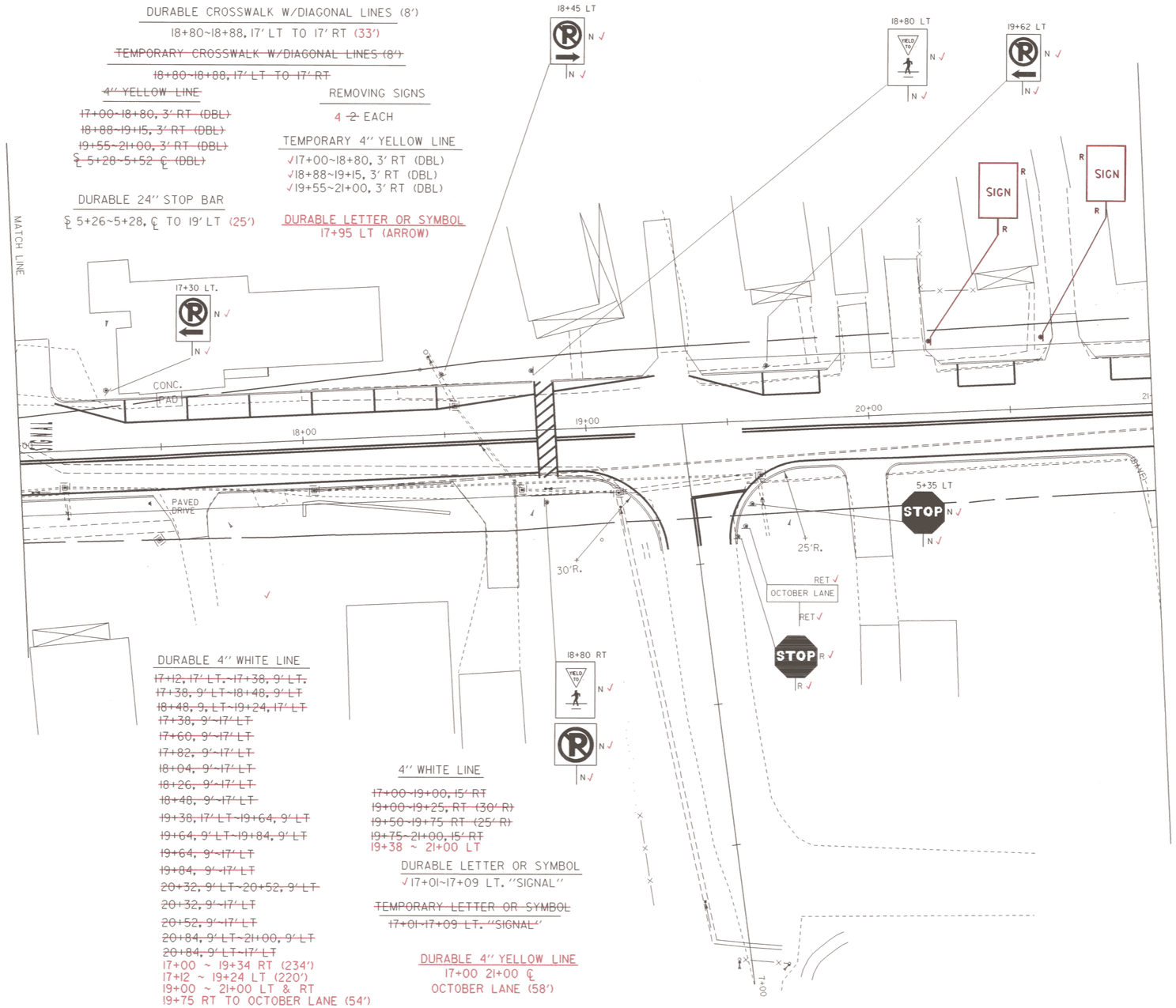
~~4" YELLOW LINE~~
~~17+00~18+80, 3' RT (DBL)~~
~~18+88~19+15, 3' RT (DBL)~~
~~19+55~21+00, 3' RT (DBL)~~
~~℄ 5+28~5+52 ℄ (DBL)~~

DURABLE 24" STOP BAR
℄ 5+26~5+28, ℄ TO 19' LT (25')

REMOVING SIGNS
4 ~~2~~ EACH

TEMPORARY 4" YELLOW LINE
√17+00~18+80, 3' RT (DBL)
√18+88~19+15, 3' RT (DBL)
√19+55~21+00, 3' RT (DBL)

DURABLE LETTER OR SYMBOL
17+95 LT (ARROW)



DURABLE 4" WHITE LINE
~~17+12, 17' LT.~17+38, 9' LT.~~
~~17+38, 9' LT~18+48, 9' LT~~
~~18+48, 9, LT~19+24, 17' LT~~
~~17+38, 9'~17' LT~~
~~17+60, 9'~17' LT~~
~~17+82, 9'~17' LT~~
~~18+04, 9'~17' LT~~
~~18+26, 9'~17' LT~~
~~18+48, 9'~17' LT~~
~~19+38, 17' LT~19+64, 9' LT~~
~~19+64, 9' LT~19+84, 9' LT~~
~~19+64, 9'~17' LT~~
~~19+84, 9'~17' LT~~
~~20+32, 9' LT~20+52, 9' LT~~
~~20+32, 9'~17' LT~~
~~20+52, 9'~17' LT~~
~~20+84, 9' LT~21+00, 9' LT~~
~~20+84, 9' LT~17' LT~~
17+00 ~ 19+34 RT (234')
17+12 ~ 19+24 LT (220')
19+00 ~ 21+00 LT & RT
19+75 RT TO OCTOBER LANE (54')

4" WHITE LINE
~~17+00~19+00, 15' RT~~
~~19+00~19+25, RT (30' R)~~
~~19+50~19+75 RT (25' R)~~
~~19+75~21+00, 15' RT~~
19+38 ~ 21+00 LT

DURABLE LETTER OR SYMBOL
√17+01~17+09 LT. "SIGNAL"

~~TEMPORARY LETTER OR SYMBOL~~
~~17+01~17+09 LT. "SIGNAL"~~

DURABLE 4" YELLOW LINE
17+00 21+00 ℄
OCTOBER LANE (58')

TEMPORARY 4" YELLOW LINE
19+00 21+00 ℄

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY	MOREAU	DATE 7-85
DRAWN BY	COTA/NAILOR	DATE 4-88
SQUAD LEADER	SHERIDAN	
DESIGN FILE NO.	ZG0:[50,116]PETED.DGN;1	
IPARM FILE	PETEDS2.PRF	DATE PLOTTED 16-FEB-1996
PROJ. NAME	MONTPELIER	
PROJ. NO.	MEGC M 6400(7)	
SHEET 114 OF 355 SHEETS		

DURABLE LETTER OR SYMBOL
22+35 (l)
26+62 (l)

TEMPORARY STOP BAR
PHELPS ST. (15')

TEMPORARY 4" YELLOW LINE
~~21+00~25+64, 3' RT (DBL)~~
~~26+04~27+00, 3' RT (DBL)~~
21+00 ~ 27+00 ℄

~~4" YELLOW LINE~~
~~21+00~25+64, 3' RT (DBL)~~
~~26+04~27+00, 3' RT (DBL)~~
~~℄ 10+33~10+55 ℄ (DBL)~~

~~DURABLE 24" STOP BAR~~
~~℄ 10+31~10+33 ℄ TO 19' LT~~

REMOVING SIGNS
2 EACH

REMOVING SIGNS (MOD)
1 EACH

4" WHITE LINE
~~21+00~27+00, 15' RT~~
21+00~24+35 LT
PHELPS ST. PARKING

~~DURABLE CROSSWALK W/DIAGONAL LINES (6')~~
~~25+42~26+03, 17' RT TO 23' LT (6')~~
TEMPORARY CROSSWALK W/DIAGONAL LINES
PHELPS ST. (44')

11+00 LT
LEGAL LOAD LIMIT 34,000 POUNDS
SERVICE VEHICLES ONLY
N √

PHELPS ST. R & S √
BERLIN ST. R & S √
R & S √

PHELPS ST. S √
10+20 RT
BERLIN ST. S √
S √

24+75 LT
SPEED LIMIT 35
N √

SIGN R
R

24+00 LT
N √

N √ ANGLE 30°-45°

10+45 LT √
STOP
N

26+35 LT
N √

MATCH LINE

22+00
23+00
24+00
25+00
26+00
TYP

23+50 RT
N √

DR. PAMELA MILOSEVICH CHIROPRACTOR

√TO BE REMOVED & RESET PER R.O.W. AGREEMENT

26+25 RT
SPEED LIMIT 35
N √

DURABLE 4" WHITE LINE
~~21+00, 9' LT~21+04, 9' LT~~
~~21+04, 9' LT~17' LT~~
~~21+40, 9' LT~21+62, 9' LT~~
~~21+40, 9' LT~17' LT~~
~~21+62, 9' LT~17' LT~~
~~22+02, 9' LT~22+86, 9' LT~~
~~22+02, 9' LT~17' LT~~
~~22+22, 9' LT~17' LT~~
~~22+44, 9' LT~17' LT~~
~~22+66, 9' LT~17' LT~~
~~22+86, 9' LT~17' LT~~
~~23+23, 9' LT~23+43, 9' LT~~
~~23+23, 9' LT~17' LT~~
~~23+43, 9' LT~17' LT~~
21+00 ~ 27+00 LT & RT

~~23+91, 9' LT~24+35, 9' LT~~
~~23+91, 9' LT~17' LT~~
~~24+13, 9' LT~17' LT~~
~~24+35, 9' LT~17' LT~~
~~26+03, 17' LT~26+34, 9' LT~~
~~26+11 LT~26+34 LT (DIAGONALS)~~
~~26+34, 9' LT~27+00, 9' LT~~
~~26+34, 9' LT~17' LT~~
~~26+54, 9' LT~17' LT~~
~~26+76, 9' LT~17' LT~~
~~26+98, 9' LT~17' LT~~

DURABLE 4" YELLOW LINE
21+00 ~ 27+00 ℄
PHELPS STREET (40')

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETEDs3.PRF DATE PLOTTED 16-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 115 OF 355 SHEETS

DURABLE 4" YELLOW LINE
27+00 ~ 33+00 ℄
WILSON ST. (134')

~~DURABLE 24" STOP BAR~~
~~℄ 15+34~15+36 ℄ TO 18' LT~~

TEMPORARY 4" YELLOW LINE
~~27+00~29+90, 3' RT (DBL)~~
~~30+30~33+00, 3' RT (DBL)~~
27+00 ~ 33+00 ℄

~~4" YELLOW LINE~~
~~27+00~29+90, 3' RT (DBL)~~
~~30+30~33+00, 3' RT (DBL)~~
~~℄ 15+36~15+41 ℄ (DBL)~~

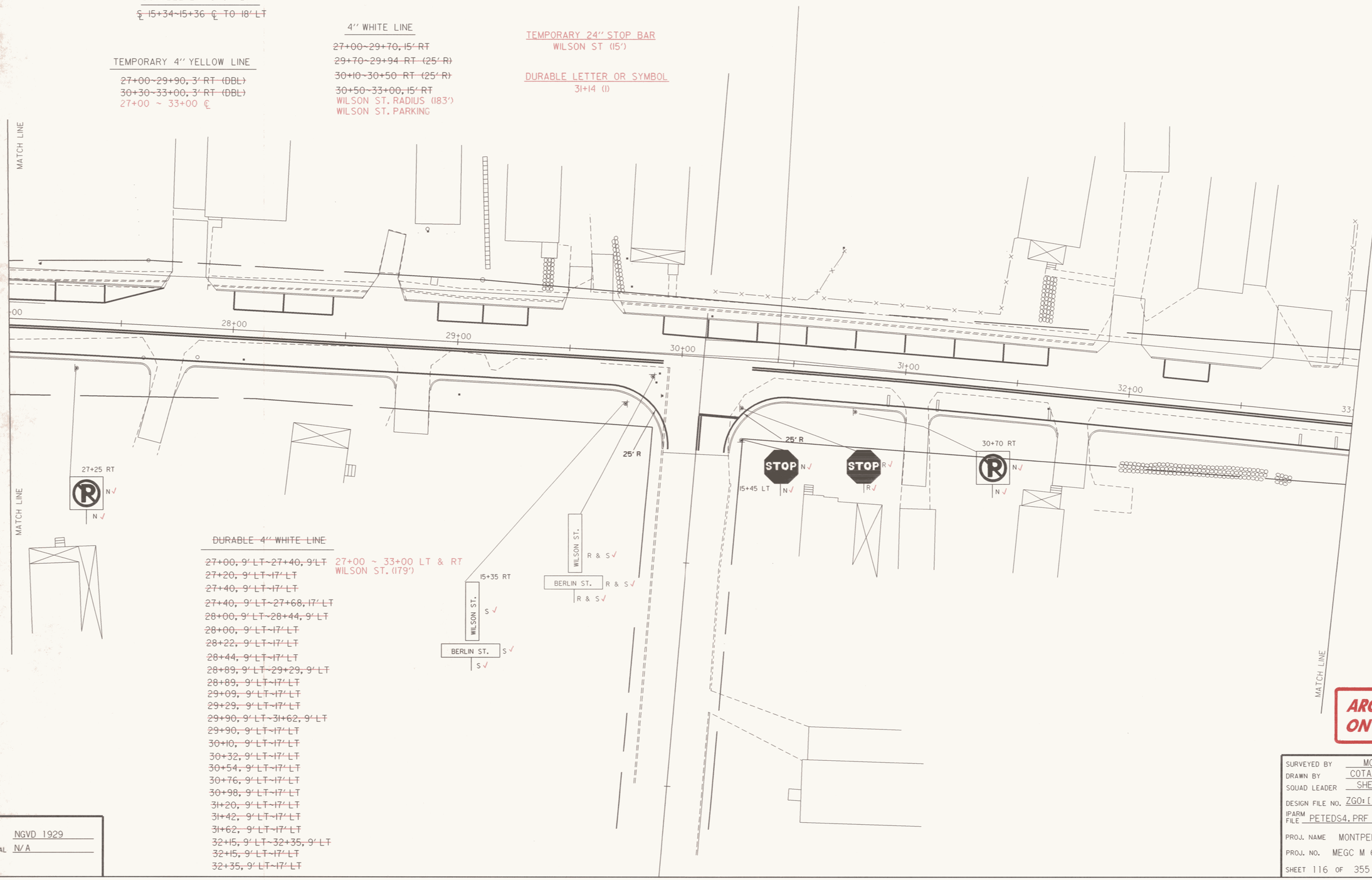
4" WHITE LINE
~~27+00~29+70, 15' RT~~
~~29+70~29+94 RT (25' R)~~
~~30+10~30+50 RT (25' R)~~
~~30+50~33+00, 15' RT~~
WILSON ST. RADIUS (183')
WILSON ST. PARKING

REMOVING SIGNS
✓ 1EA

REMOVING SIGNS (MOD.)
✓ 1EA

TEMPORARY 24" STOP BAR
WILSON ST (15')

DURABLE LETTER OR SYMBOL
31+14 (1)



~~DURABLE 4" WHITE LINE~~
~~27+00, 9' LT~27+40, 9' LT~~
~~27+20, 9' LT~17' LT~~
~~27+40, 9' LT~17' LT~~
~~27+40, 9' LT~27+68, 17' LT~~
~~28+00, 9' LT~28+44, 9' LT~~
~~28+00, 9' LT~17' LT~~
~~28+22, 9' LT~17' LT~~
~~28+44, 9' LT~17' LT~~
~~28+89, 9' LT~29+29, 9' LT~~
~~28+89, 9' LT~17' LT~~
~~29+09, 9' LT~17' LT~~
~~29+29, 9' LT~17' LT~~
~~29+90, 9' LT~31+62, 9' LT~~
~~29+90, 9' LT~17' LT~~
~~30+10, 9' LT~17' LT~~
~~30+32, 9' LT~17' LT~~
~~30+54, 9' LT~17' LT~~
~~30+76, 9' LT~17' LT~~
~~30+98, 9' LT~17' LT~~
~~31+20, 9' LT~17' LT~~
~~31+42, 9' LT~17' LT~~
~~31+62, 9' LT~17' LT~~
~~32+15, 9' LT~32+35, 9' LT~~
~~32+15, 9' LT~17' LT~~
~~32+35, 9' LT~17' LT~~

27+00 ~ 33+00 LT & RT
WILSON ST. (179')

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO: [50, 116] PETED.DGN; 1		
IPARM FILE	PETEDS4.PRF	DATE PLOTTED	16-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	116 OF 355 SHEETS		

DURABLE 4" WHITE LINE

~~33+22, 9' LT.~34+06, 9' LT.~~
~~33+22, 9' LT.~17' LT.~~
~~33+42, 9' LT.~17' LT.~~
~~33+64, 9' LT.~17' LT.~~
~~33+86, 9' LT.~17' LT.~~
~~34+06, 9' LT.~17' LT.~~
~~34+06, 9' LT.~34+35, 17' LT.~~
~~34+06 LT.~34+30 LT. (DIAG.)~~
~~34+96, 17' LT.~35+20, 9' LT.~~
~~35+03 LT.~35+20 LT. (DIAG.)~~
~~35+20, 9' LT.~~
~~35+20, 9' LT.~17' LT.~~
~~35+40, 9' LT.~17' LT.~~
~~35+80, 9' LT.~36+20, 9' LT.~~
~~35+80, 9' LT.~17' LT.~~
~~36+00, 9' LT.~17' LT.~~
~~36+20, 9' LT.~17' LT.~~
~~36+60, 9' LT.~37+00, 9' LT.~~
~~36+60, 9' LT.~17' LT.~~
~~36+80, 9' LT.~17' LT.~~
~~37+00, 9' LT.~17' LT.~~
33+00 ~ 39+00 LT & RT
BLODGET AVE. (177')

DURABLE 4" WHITE LINE CONT.

~~37+37, 9' LT.~37+77, 9' LT.~~
~~37+37, 9' LT.~17' LT.~~
~~37+57, 9' LT.~17' LT.~~
~~37+77, 9' LT.~17' LT.~~
~~38+24, 9' LT.~38+46, 9' LT.~~
~~38+24, 9' LT.~17' LT.~~
~~38+46, 9' LT.~17' LT.~~

TEMPORARY 4" YELLOW LINE

~~33+00~34+35, 3' RT. (DBL.)~~
~~34+90~39+00, 3' RT. (DBL.)~~
33+00 ~ 34+15 ℄

~~DURABLE 24" STOP BAR~~

~~SL 20+20~20+22 CL TO 13' LT.~~

REMOVING SIGNS (MOD.)

1 EA.

~~4" WHITE LINE~~

~~33+00~39+00, 15' RT.~~

~~4" YELLOW LINE~~

~~33+00~34+35, 3' RT. (DBL.)~~
~~34+90~39+00, 3' RT. (DBL.)~~
~~SL 20+22~20+40 CL (DBL.)~~

DURABLE 4" YELLOW LINE
33+00 ~ 39+00 ℄
BLODGET AVE. (64')

TEMPORARY CROSSWALK W/ DIAGONAL LINES (6')
34+35~34+95, 17' TO 23' LT. (43')

~~DURABLE CROSSWALK W/ DIAGONAL LINES (6')~~
34+35~34+95, 17' TO 23' LT.

TEMPORARY 24" STOP BAR
BLODGET AVE. (15')

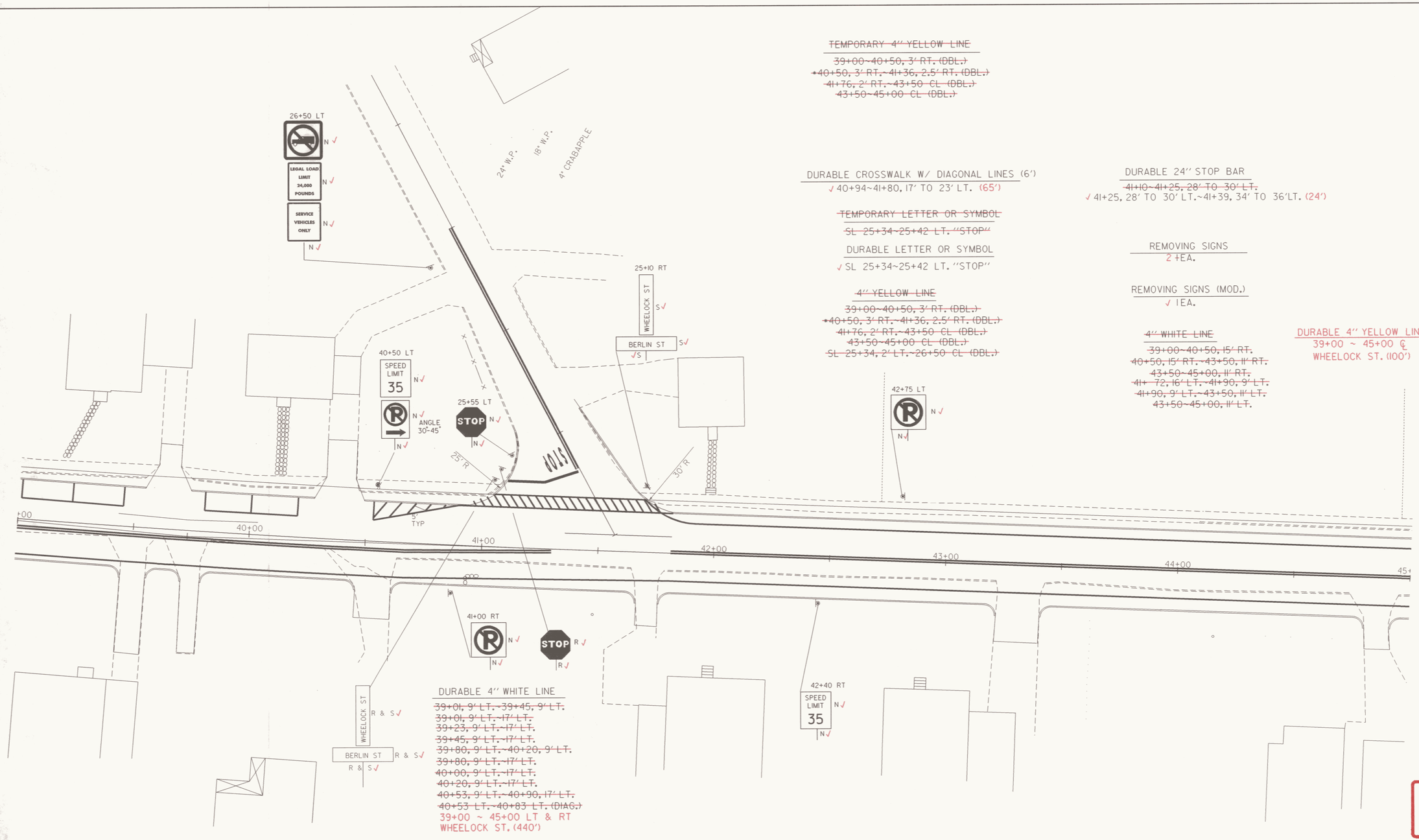
DURABLE LETTER OR SYMBOL
33+55 LT (1)

MATCH LINE
W/FB @ 34+00 LT
EXIST. DIW/2-4' CONC. BOX INLETS AND A 12' CMP OUTLET
BLODGET AVE
20+20 RT
34+05 LT
35+20 LT
20+30 LT
STOP
36+00 RT
MATCH LINE
MATCH LINE
5' TYP
34+00
35+00
36+00
37+00
38+00

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETEDS5.PRF DATE PLOTTED 16-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 117 OF 355 SHEETS



~~TEMPORARY 4" YELLOW LINE~~
~~39+00~40+50, 3' RT. (DBL.)~~
~~40+50, 3' RT.~41+36, 2.5' RT. (DBL.)~~
~~41+76, 2' RT.~43+50 CL (DBL.)~~
~~43+50~45+00 CL (DBL.)~~

DURABLE CROSSWALK W/ DIAGONAL LINES (6')
✓ 40+94~41+80, 17' TO 23' LT. (65')

~~TEMPORARY LETTER OR SYMBOL~~
~~SL 25+34~25+42 LT. "STOP"~~

DURABLE LETTER OR SYMBOL
✓ SL 25+34~25+42 LT. "STOP"

~~4" YELLOW LINE~~
~~39+00~40+50, 3' RT. (DBL.)~~
~~40+50, 3' RT.~41+36, 2.5' RT. (DBL.)~~
~~41+76, 2' RT.~43+50 CL (DBL.)~~
~~43+50~45+00 CL (DBL.)~~
~~SL 25+34, 2' LT.~26+50 CL (DBL.)~~

DURABLE 24" STOP BAR
~~41+10~41+25, 28' TO 30' LT.~~
✓ 41+25, 28' TO 30' LT.~41+39, 34' TO 36' LT. (24')

REMOVING SIGNS
2 ✓EA.

REMOVING SIGNS (MOD.)
✓ 1EA.

~~4" WHITE LINE~~
~~39+00~40+50, 15' RT.~~
~~40+50, 15' RT.~43+50, 11' RT.~~
~~43+50~45+00, 11' RT.~~
~~41+ 72, 16' LT.~41+90, 9' LT.~~
~~41+90, 9' LT.~43+50, 11' LT.~~
~~43+50~45+00, 11' LT.~~

DURABLE 4" YELLOW LINE
39+00 ~ 45+00 ℄
WHEELOCK ST. (100')

DURABLE 4" WHITE LINE
~~39+01, 9' LT.~39+45, 9' LT.~~
~~39+01, 9' LT.~17' LT.~~
~~39+23, 9' LT.~17' LT.~~
~~39+45, 9' LT.~17' LT.~~
~~39+80, 9' LT.~40+20, 9' LT.~~
~~39+80, 9' LT.~17' LT.~~
~~40+00, 9' LT.~17' LT.~~
~~40+20, 9' LT.~17' LT.~~
~~40+53, 9' LT.~40+90, 17' LT.~~
~~40+53 LT.~40+83 LT. (DIAG.)~~
39+00 ~ 45+00 LT & RT
WHEELOCK ST. (440')

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETEDS6.PRF DATE PLOTTED 16-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 118 OF 355 SHEETS

~~TEMPORARY 4" YELLOW LINE~~

~~45+00~47+45 CL (DBL.)~~
~~47+85~51+00 CL (DBL.)~~

~~4" YELLOW LINE~~

~~45+00~47+45 CL (DBL.)~~
~~47+85~51+00 CL (DBL.)~~
~~SL 30+29~30+48 CL (DBL.)~~

~~4" WHITE LINE~~

~~45+00~51+00, 11' RT.~~
~~45+00~47+25, 11' LT.~~
~~47+25, 11' LT.~47+45, 16' LT. (25'R)~~
~~47+88, 16' LT.~48+03, 11' LT. (25'R)~~
~~48+03~51+00, 11' LT.~~

~~TEMPORARY LETTER OR SYMBOL~~

~~SL 30+33~30+41 LT. "STOP"~~

DURABLE LETTER OR SYMBOL

✓SL 30+33~30+41 LT. "STOP"

DURABLE CROSSWALK W/ DIAGONAL LINES (6')

✓47+42~47+92, 17' TO 23' LT. (51')

REMOVING SIGNS

? ~~2~~ EA.

REMOVING SIGNS (MOD.)

✓1 EA.

DURABLE 24" STOP BAR

SL 30+27~30+29 CL TO 15' LT. (15')

DURABLE 4" WHITE LINE
45+00 ~ 51+00 LT & RT
VALERIE AVENUE (120')

DURABLE 4" YELLOW LINE
45+00 ~ 51+00 ℄
VALERIE AVENUE (88')

MATCH LINE

VALERIE AVE.

R & S ✓

BERLIN ST R & S ✓

R & S ✓

30+25 RT.

VALERIE AVE. R&S ✓

48+10 LT

N ✓

N ✓

BERLIN ST R&S ✓

R&S ✓

NO PARKING THIS SIDE OF STREET

R

R

30+35 LT

STOP N ✓

✓N

25' R

25' R

STOP

49+75 RT

N ✓

SCHOOL BUS STOP AHEAD

✓N

R

SCHOOL BUS STOP AHEAD

R

46+25 RT

N ✓

✓N

12' R

R

MATCH LINE

51

50+00

49+00

48+00

47+00

46+00

ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETEDS7.PRF DATE PLOTTED 20-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 119 OF 355 SHEETS

REMOVING SIGNS

0 ~~4~~ EA.

REMOVING SIGNS (MOD.)

√ 1 EA.

DURABLE 24" STOP BAR

√ SL 35+25~35+27, 1'-18' LT. (18')

~~4" YELLOW LINE~~

~~51+00~54+32 CL (DBL.)~~

~~54+72~56+50 CL (DBL.)~~

~~SL 35+27, 2' LT.~35+50, 3' LT. (DBL.)~~

~~4" WHITE LINE~~

~~51+00~54+10, 11' LT.~~

~~54+10, 11' LT.~54+31, 40' LT. (25'R)~~

~~54+60, 35' LT.~54+82, 11' LT. (30'R)~~

~~54+82~56+50, 11' LT.~~

~~51+00~56+50, 11' RT.~~

DURABLE 4" WHITE LINE

51+00 ~ 56+50 LT & RT

HEBART ROAD (12')

DURABLE 4" YELLOW LINE

51+00 ~ 56+50 ℄

HEBART ROAD (50')

~~TEMPORARY 4" YELLOW LINE~~

~~51+00~54+32 CL (DBL.)~~

~~54+72~56+50 CL (DBL.)~~

RETAIN √ STONEWALL MEADOWS

RETAIN √

NOT A THRU STREET

RETAIN √

RETAIN √

35+40 LT

STOP N √

√ N

STOP R

R

25' R

30' R

HEBERT RD. √ R&S

HEBERT RD. R&S √

35+15 RT.

HEBERT RD. S √

S √

ROUGH SURFACE NEXT MILE R

NO PARKING THIS SIDE OF STREET R

R

56+00 LT.

N √

N √

52+00

53+00

54+00

55+00

56+00

00

MATCH LINE

MATCH LINE

51+75 RT

NO PARKING THIS SIDE OF STREET R

R

N √

N √

ARCHIVED ON CADD

DATUM

VERTICAL NGVD 1929

HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85

DRAWN BY COTA/NAILOR DATE 4-88

SQUAD LEADER SHERIDAN

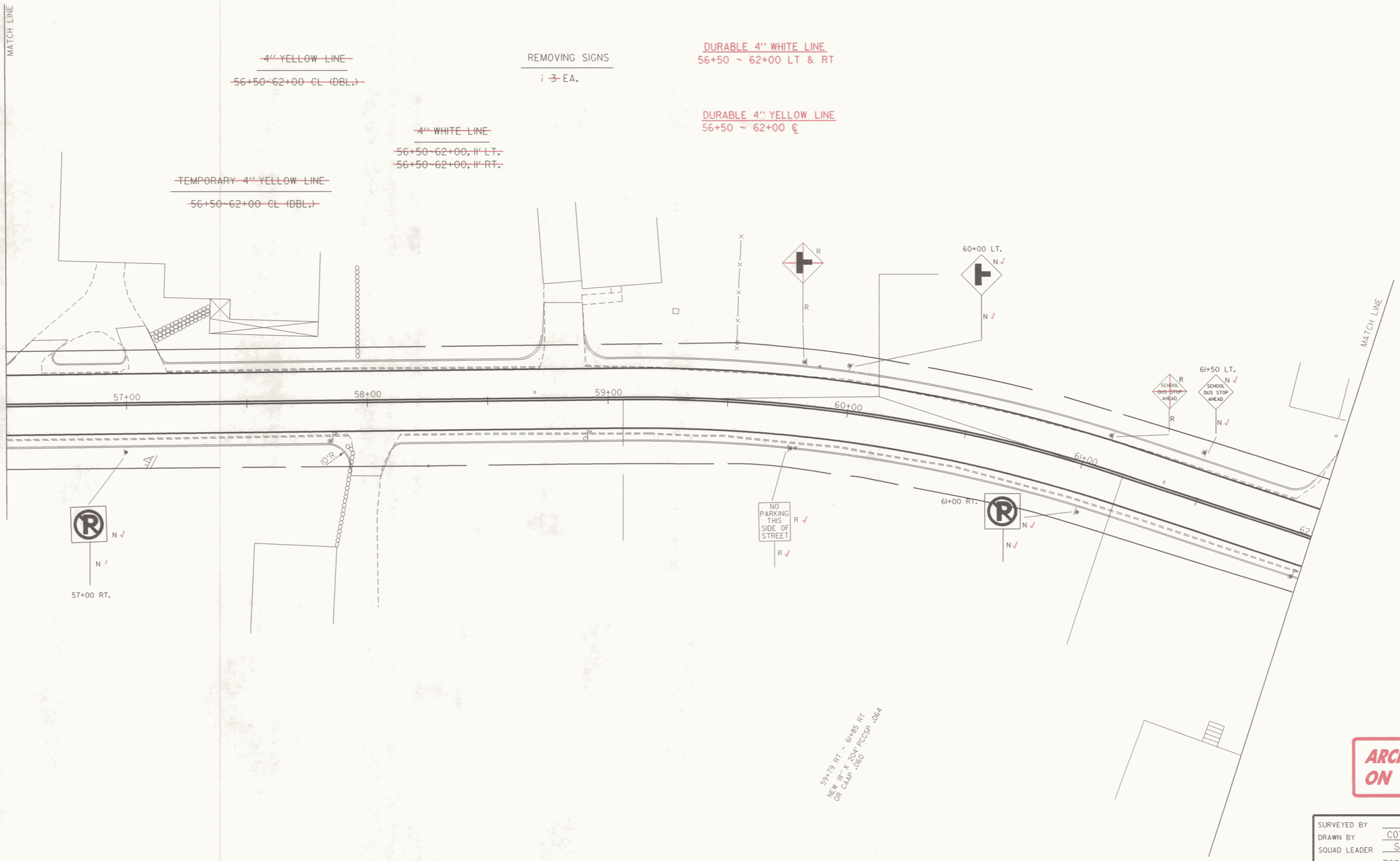
DESIGN FILE NO. ZG0:[50,116]PETED.DGN;1

IPARM FILE PETEDS8.PRF DATE PLOTTED 20-FEB-1996

PROJ. NAME MONTPELIER

PROJ. NO. MEGC M 6400(7)

SHEET 120 OF 355 SHEETS

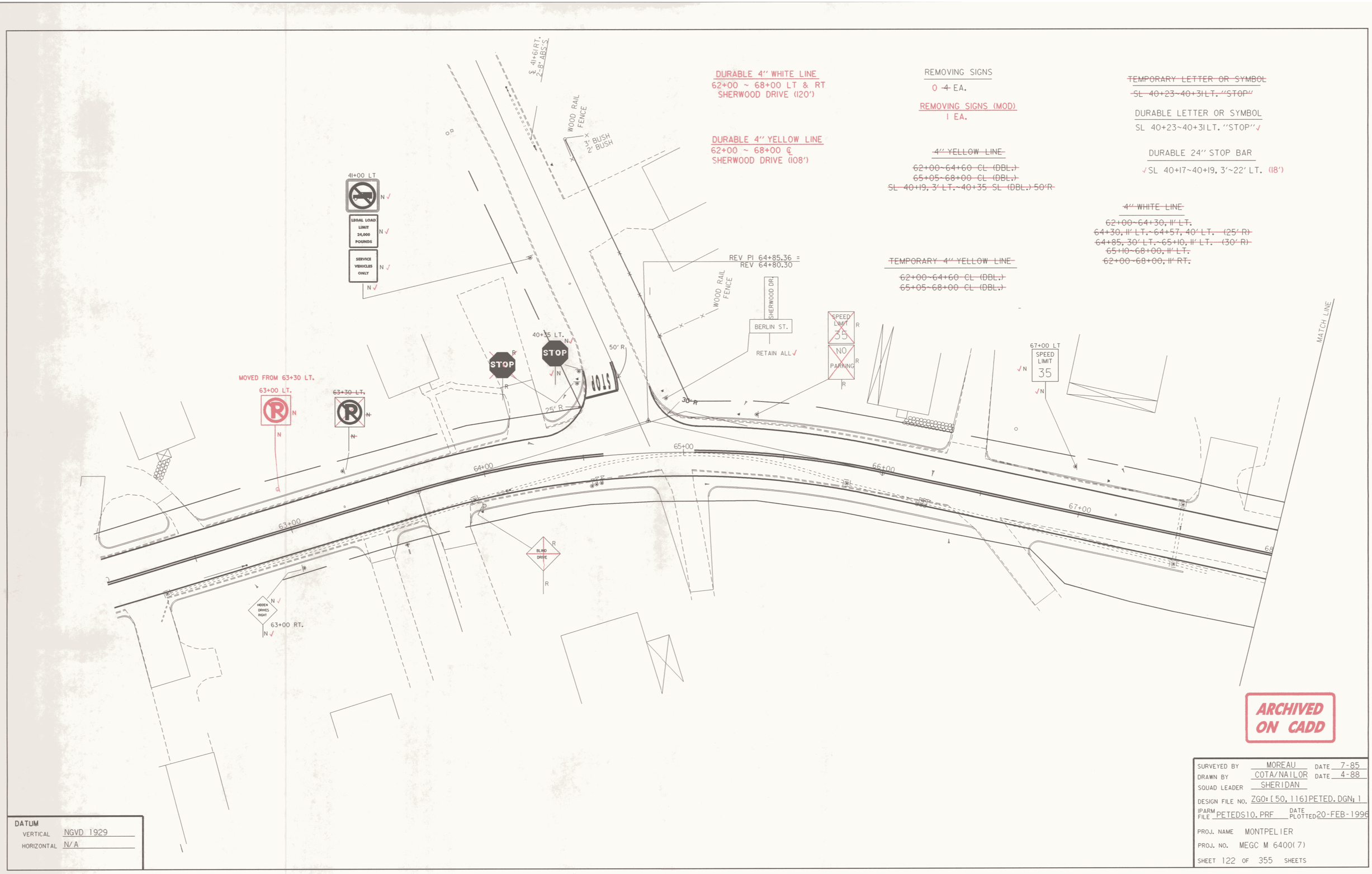


ARCHIVED ON CADD

SURVEYED BY	MOREAU	DATE	7-85
DRAWN BY	COTA/NAILOR	DATE	4-88
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	ZGO:[50,116]PETED.DGN;1		
IPARM FILE	PETEDS9.PRF	DATE PLOTTED	20-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET	121 OF 355 SHEETS		

DATUM

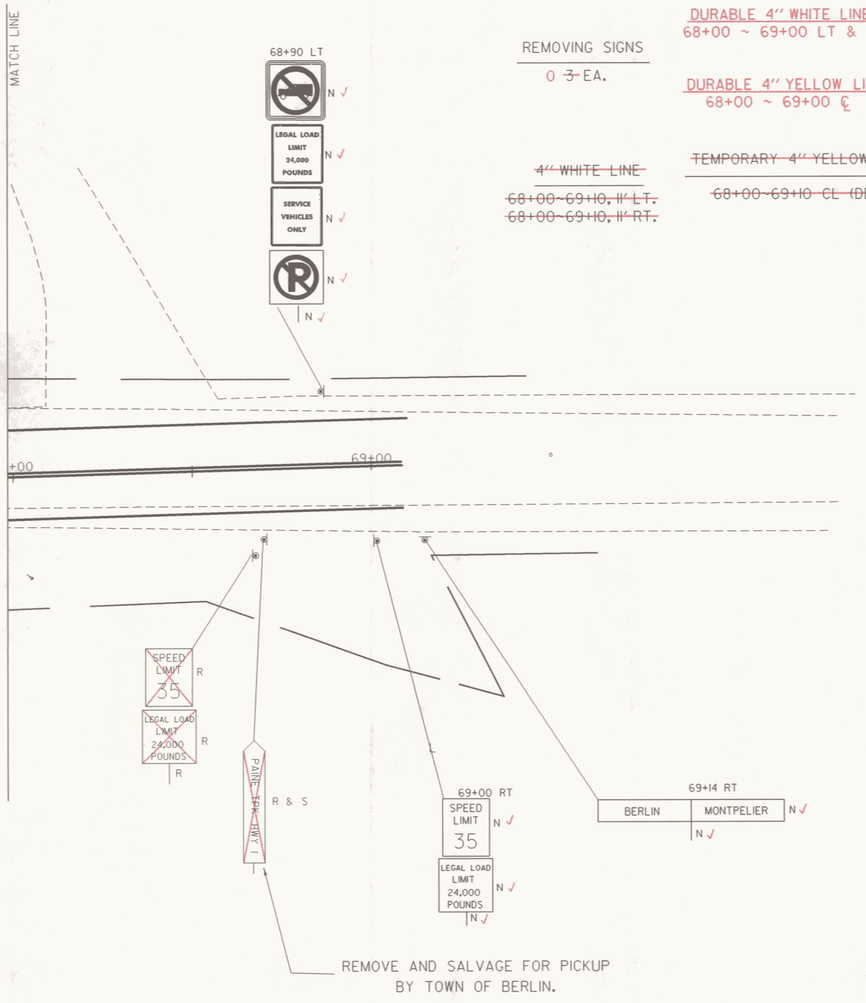
VERTICAL	NGVD 1929
HORIZONTAL	N/A



ARCHIVED ON CADD

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZG0:[50,116]PETED.DGN;1
IPARM FILE PETEDS10.PRF DATE PLOTTED 20-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 122 OF 355 SHEETS



REMOVING SIGNS

0 ~~3~~ EA.

DURABLE 4" WHITE LINE
68+00 ~ 69+00 LT & RT

DURABLE 4" YELLOW LINE
68+00 ~ 69+00 ℄

~~4" WHITE LINE~~

~~68+00~69+10, 11" LT.~~
~~68+00~69+10, 11" RT.~~

~~TEMPORARY 4" YELLOW LINE~~

~~68+00~69+10 CL (DBL.)~~

~~4" YELLOW LINE~~

~~68+00~69+10 CL (DBL.)~~

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

ARCHIVED ON CADD

SURVEYED BY MOREAU DATE 7-85
DRAWN BY COTA/NAILOR DATE 4-88
SQUAD LEADER SHERIDAN
DESIGN FILE NO. ZGO:[50,116]PETED.DGN;1
IPARM FILE PETEDS11.PRF DATE PLOTTED 20-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 123 OF 355 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS																REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT. 1.2	2.0	2.5	3.0	TUBULAR ALUMINUM 3.0"Ø	4.0"Ø	TUBULAR STEEL FOUNDATION	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	W SHAPED STEEL POST SIZE	WEIGHT	FTG. SIZE 24"	30"	SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
RIVER ST SL																													
80+76 LT	NO TURNS	24"X24"	4								1		X															135	E-140
81+00 RT	RIVER ST.	1			1																						USE POST TOP MOUNTING BRACKET		E-123
	HOSPITAL	54"X7.5"	2.81								1		X																E-123
	AIRPORT	54"X7.5"	2.81																										E-123
		18"X18"	2.25																										E-150
81+60 RT	DO NOT ENTER	30"X30"	6.25								1		X														MOUNT BACK TO BACK		E-143
		24"X24"	4																								MOUNT BACK TO BACK		E-143
	ONE WAY	36"X12"	3																										E-142
81+85 RT	DO NOT ENTER	30"X30"	6.25								1		X																E-143
	STOP	30"X30"	6.25																										E-143
81+9 5LT	ONLY	24"X30"	5								1		X															135	E-144
	NO TURNS	24"X24"	4																									135	E-140
83+70 RT	SPEED LIMIT 35	24"X30"	5								1		X																E-142
83+70 LT	WEST	24"X12"	2								1		X																E-136
	2	24"X24" 21"X15"	4 2.2																										E-136
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL". TOTALS			SF. 59.82	SF.	EA. 1	SF.						230.0 / 230.0	30.4 / 30.4					EA.						LBS.	EA.	EA.				

PREPARED BY J.P. COTA DATE 8-90
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 1 OF ____
SHEET 124 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS														REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT. 1.12	2.0	2.5	3.0	TUBULAR ALUMINUM 3.0"Ø	4.0"Ø	TUBULAR STEEL FOUNDATION	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	W SHAPED STEEL POST SIZE	WEIGHT	FTG. SIZE 24"	30"	SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
BERLIN ST.																													
10+00 LT/RT	SEE DETAIL SHEET #133 SEE DETAIL SHEET #133	102" X 78" 84" X 78"		55.25 45.50																							MOUNT ON EXISTING OVERHEAD CANTILEVER SUPPORT. SEE GENERAL NOTE 1 ON SHEET # 132	132 133	E-131 E-136
	SEE DETAIL SHEET #135	84" X 18"	10.5																								MOUNT ON EXISTING OVERHEAD CANTILEVER SUPPORT. SEE GENERAL NOTE 1 ON SHEET # 132	132 135	E-131
	SEE DETAIL SHEET #133	72" X84"		42.00																							* THE "SERVICE VEHICLES ONLY" SIGN WILL NOT BE ERECTED UNLESS MONTPELIER'S CITY COUNCIL ADOPTS A "NO THRU TRUCK" ORDINANCE PRIOR TO THE PROJECT COMPLETION.	MOUNT ON EXISTING OVERHEAD CANTILEVER SUPPORT. SEE GENERAL NOTE ON SHEET # 132*	132 133	E-131
11+82 RT	BERLIN ST.	1			1																						MOUNT ON CANTILEVER POLE W/STAINLESS STEEL MOUNTING BAND. USE FABRIC PAD BETWEEN BAND AND POLE.		E-123
12+54 LT	NO TURN ON RED	24" X 30"	5								1			X															E-140
	STOP HERE ON RED	24" X 36"	6																										E-140
		12" X 18"	1.5																								ANGLE 30° TO 45° FROM CURB	135	E-143
13+45 RT	SPEED LIMIT 35	24" X 30"	5								1			X															E-142
		12" X 12"	1																										E-143
14+20 LT		12" X 18"	1.5								1			X														ANGLE 30° TO 45° FROM CURB	135	E-143
15+00 RT		30" X 30"	6.25								1			X															E-152
16+35 LT		12" X 18"	1.5								1			X														ANGLE 30° TO 45° FROM CURB	135	E-143
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S " SIGN POST DESIGN MANUAL ". TOTALS			SF. 38.25	SF. 142.75	EA. 1	SF.						48 67.5 115.5				39.9 39.9		EA.						LBS.	EA.	EA.				

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE ___
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 2 OF ___
SHEET 125 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

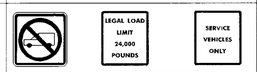
TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS																	REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT. 1.12	2.0	2.5	3.0	TUBULAR ALUMINUM 3.0"ø	4.0"ø	TUBULAR STEEL FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	W SHAPED STEEL POST SIZE	WEIGHT	FTG. SIZE 24"	30"	SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
16+85 LT		30" X 30"	6.25								1		X																	E-152
17+00 RT		12" X 12"	1								1	X																		E-143
17+30 LT		12" X 18"	1.5								1	X																ANGLE 30° TO 45° FROM CURB	135	E-143
18+45 LT		12" X 18"	1.5								1	X																ANGLE 30° TO 45° FROM CURB	135	E-143
18+80 LT		18" X 24"	3								1		X																	E-143
18+80 RT		18" X 24"	3								1		X																	E-143
		12" X 12"	1																											E-143
5+35 LT	STOP	24" X 24"	4								1		X																	E-143
19+62 LT		12" X 18"	1.5								1	X																ANGLE 30° TO 45° FROM CURB	135	E-143
23+50 RT		12" X 12"	1								1	X																		E-143
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S " SIGN POST DESIGN MANUAL ". TOTALS			SF. 23.75	SF.	EA.	SF.						120 132.5 252.5						EA.						LBS.	EA.	EA.					

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 3 OF ____
SHEET 126 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS																REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.				TUBULAR ALUMINUM		TUBULAR STEEL					W SHAPED STEEL		FTG. SIZE		SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	2.5	3.0	3.0"ø	4.0"ø	FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	POST SIZE	WEIGHT	24"	30"			
24+00 LT		30" X 30"	6.25								1		X																E-152
24+75 LT		24" X 30"	5								1				X														E-142
		12" X 18"	1.5																								ANGLE 30° TO 40° FROM CURB	135	E-143
PHELPS ST.																													
10+20 RT	PHELPS ST. BERLIN ST.	1			1					1																	ITEM 675.50(MOD)		E-123
10+45 LT		24" X 24"	4								1		X																E-143
11+00 LT		24" X 24" 24" X 30" 24" X 30"	14								1				X													133	E-141 E-144
BERLIN ST.																													
26+25 RT		24" X 30"	5								1		X																E-142
26+35 LT		12" X 18"	1.5								1	X															ANGLE 30 TO 45 FROM CURB	135	E-143
27+25 RT		12" X 12"	1								1	X																	E-143
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S " SIGN POST DESIGN MANUAL ". TOTALS			SF. 38.25	SF.	EA. 1	SF.						48 97.5 145.5			68.4	68.4	EA.							LBS.	EA.	EA.				

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 4 OF ____
SHEET 127 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS																REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.				TUBULAR ALUMINUM		TUBULAR STEEL					W SHAPED STEEL		FTG. SIZE		SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	2.5	3.0	3.0"ø	4.0"ø	FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	POST SIZE	WEIGHT	24"	30"			
WILSON ST.																													
15+35 RT	WILSON ST. BERLIN ST.	1			1					1																	ITEM 675.50 (MOD)		E-123
15+45 LT	STOP	24" X 24"	4								1		X																E-143
BERLIN ST.																													
30+70 RT	R	12" X 12"	1								1	X																	E-143
34+05 LT	R →	12" X 18"	1.5								1	X															ANGLE 30° TO 45° FROM CURB	135	E-143
BLODGETT AVE.																													
20+20 RT	BLODGETT AVE.	1			1					1																	ITEM 675.50 (MOD)		E-123
20+30 LT	STOP	24" X 24"	4								1		X																E-143
BERLIN ST.																													
35+20 LT	R ←	12" X 18"	1.5								1	X															ANGLE 30° TO 45° FROM CURB	135	E-143
	↑																												
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL". TOTALS			SF. 12	SF.	EA. 2	SF.						72 65 137						EA.					LBS.	EA.	EA.				

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 5 OF ____
SHEET 128 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS															REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT. 1.12	2.0	2.5	3.0	TUBULAR ALUMINUM 3.0"ø	4.0"ø	TUBULAR STEEL FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	W SHAPED STEEL POST SIZE	WEIGHT	FTG. SIZE 24"	30"	SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
36+00 RT		12" X 12"	1								1	X																E-143
40+50 LT		24" X 30"	5								1				X													E-142
		12" X 18"	1.5																							ANGLE 30° TO 45° FROM CURB	135	E-143
41+00 RT		12" X 12"	1								1	X																E-143
WHEELOCK ST.																													
25+10 RT	WHEELOCK ST. BERLIN ST.	1			1				1																	ITEM 675.50 (MOD)		E-123
25+55 LT		24" X 24"	4								1		X															E-143
26+50 LT		24" X 24" 24" X 30" 24" X 30"	14								1				X												133	E-141 E-144
BERLIN ST.																													
42+40 RT		24" X 30"	5								1		X															E-142
42+75 LT		12" X 12"	1								1	X																E-143
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL ". TOTALS			SF. 32.5	SF.	EA. 1	SF.						72 65 68.4 137 68.4						EA.						LBS.	EA.	EA.				

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 6 OF _____
SHEET 129 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER. STATION. OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS															REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.				TUBULAR ALUMINUM		TUBULAR STEEL					W SHAPED STEEL		FTG. SIZE		SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	2.5	3.0	3.0"ø	4.0"ø	FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	POST SIZE	WEIGHT	24"	30"			
46+25 RT	R	12" X 12"	1								1	X																	E-143
VALERIE ST.																													
30+25 RT	VALERIE ST. / BERLIN ST.	1			1					1																		ITEM 675.50 (MOD)		E-123
30+35 LT	STOP	24" X 24"	4								1		X																E-143
BERLIN ST.																													
48+10 LT	R	12" X 12"	1								1	X																	E-143
49+75 RT	SCHOOL BUS STOP AHEAD	30" X 30"	6.25								1		X															135	E-150
51+75 RT	R	12" X 12"	1								1	X																	E-143
HEBERT RD.																													
35+15 RT	HEBERT RD.	1			1					1																		ITEM 675.50 (MOD)		E-123
35+40 LT	STOP ↑	24" X 24"	4								1		X																E-143
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL". TOTALS			SF. 17.25	SF.	EA. 2	SF.						72 | 97.5 169.5				EA.							LBS.	EA.	EA.					

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 7 OF _____
SHEET 130 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS															REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT. 1.12	2.0	2.5	3.0	TUBULAR ALUMINUM 3.0"ø	4.0"ø	TUBULAR STEEL FOUND-ATION	3"ø	3.5"ø	4.0"ø	5.0"ø	W SHAPED STEEL POST SIZE	WEIGHT	FTG. SIZE 24"	30"	SIGN FRAME		PLAN SHEET NUMBER	STD. SHEET NUMBER
BERLIN ST.																													
56+00 LT	R	12" X 12"	1								1	X																	E-143
57+00 RT	R	12" X 12"	1								1	X																	E-143
60+00 LT		30" X 30"	6.25								1			X														135	E-150
61+00 RT	R	12" X 12"	1								1	X																	E-143
61+50 LT	SCHOOL BUS STOP AHEAD	30" X 30"	6.25								1			X														135	E-150
63+00 RT	HIDDEN DRIVES RIGHT	30" X 30"	6.25								1			X														135	E-150
63+30 LT	R	12" X 12"	1								1	X																	E-143
67+00 LT	SPEED LIMIT 35	24" X 30"	5								1		X																E-142
SHERWOOD DR.																													
40+35 LT	STOP	24" X 24"	4								1			X															E-143
41+00 LT	LEGAL LOAD LIMIT 24,000 POUNDS / SERVICE VEHICLES ONLY	24" X 24" 24" X 30" 24" X 30"	14								1				X													133	E-141 E-144
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL". TOTALS			SF. 45.75	SF.	EA.	SF.						96 165 38 261				38		EA.					LBS.	EA.	EA.				

PREPARED BY J. P. COTA DATE 8-90
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR TDS DATE 8-90
PROJ. MONTPELIER-BERLIN ST.
MEGC M6400(7)
TRAFFIC SHEET NO. 8 OF _____
SHEET 131 OF 335 SHEETS

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS "A"	NEW AND SALVAGED SIGNS "B"	SALV. SIGN	SALV. T.I.S.	EXIST. POSTS RET.	EXIST. POSTS SALV.	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB./FT. 1.12	FLANGED CHANNEL LB./FT. 2.0	FLANGED CHANNEL LB./FT. 3.0	TUBULAR ALUMINUM 3.0"ø	TUBULAR ALUMINUM 4.0"ø	TUBULAR STEEL FOUNDATION	TUBULAR STEEL 3"Ø	TUBULAR STEEL 3.5"Ø	TUBULAR STEEL 4.0"Ø	TUBULAR STEEL 5.0"Ø	W-SHAPE STEEL POST SIZE	W-SHAPE STEEL WEIGHT	FTG. SIZE 24"	FTG. SIZE 30"	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
BERLIN ST.																											
68+90 LT		24'' X 24'' 24'' X 30'' 24'' X 30''		4 5 5					1					X											133	E-141 E-144
		12'' X 12''		1																						E-143
69+00 RT		24'' X 30''		5					1				X													E-142
		24'' X 30''		5																						E-141
69+14 RT		60'' X 7.5''		3.1					1				X													E-124
													99	38													
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE ". TOTALS			SF.	SF. 28.1	EA.	SF.			LBS.	LBS.	LBS.	LBS. 99	LBS.	EA.	LBS. 38	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.				

646.20	4'' WHITE LINE	LF	8340	60	8400
646.21	4'' YELLOW LINE	LF	33300	-	33300
646.40	DURABLE 4'' WHITE LINE	LF	2765	35	2800
646.41	DURABLE 4'' YELLOW LINE	LF	1450	-	1450
646.42	DURABLE 8'' WHITE LINE	LF	345	5	350
646.43	DURABLE 8'' YELLOW LINE	LF	80	-	80
646.46	DURABLE 24'' STOP BAR	LF	244	6	250
646.50	DURABLE LETTER OR SYMBOL	EA	55	-	55
646.51	DUR. CR. WLK. MKG. W/DIAG. LINES (6')	LF	265	-	265
646.51	DUR. CR. WLK. MKG. W/DIAG. LINES (8')	LF	170	-	170
646.61	TEMP. 4'' YELLOW LINE	LF	10204	6	10210
646.62	TEMP. 8'' WHITE LINE	LF	235	5	240
646.66	TEMP. 24'' STOP BAR	LF	80	-	80
646.70	TEMPORARY LETTER OR SYMBOL	LF	55	-	55
646.71	TEMP. CROSSWALK MKG. W/DIA. LINES (6')	LF	36	4	40
646.71	TEMP. CROSSWALK MKG. W/DIA. LINES (8')	LF	170	-	170
675.20	TRAFFIC SIGNS, TYPE A	SF	295.67	4.33	300
675.21	TRAFFIC SIGNS, TYPE B	SF	142.75	2.25	145
675.30	FLANGED CHANNEL SIGN POST	LB	1547.00	3.00	1550
675.32	TUBULAR ALUMINUM SIGN POST	LB	291.10	3.90	295
675.50	REMOVING SIGNS	EA	53	-	53
675.50	REMOVING SIGNS (MOD)	EA	6	-	6
675.60	ERECTING SALVAGED SIGNS	EA	2	-	2

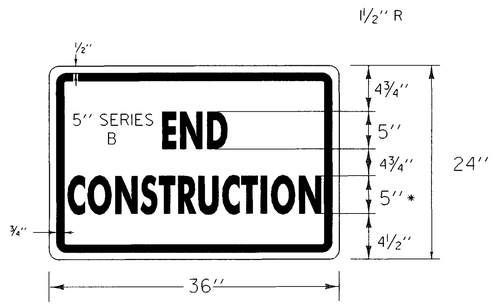
1. THE SIGN AND LUMINAIRE MOUNTING BRACKETS FOR THE OVERHEAD SIGNS AT 10+00 (APPROXIMATELY) SHALL BE MODIFIED FOR THE NEW SIGNS IF NECESSARY. IF DETERMINED UNUSABLE, NEW BRACKETS ARE TO BE USED. ANY LUMINAIRE REFURBISHING NECESSARY IS TO BE DONE SO THEY ARE OPERABLE. ALL THE ABOVE TO BE PAID SUBSIDIARY TO TRAFFIC SIGNS, TYPE B.

2. THE TREES ON THE WEST APPROACH NOW RESTRICTING VIEW OF THE OVERHEAD SIGNS ARE TO BE TRIMMED TO ALLOW A SUFFICIENT SIGHT DISTANCE TO THE SIGNS. THIS WORK TO BE PAID SUBSIDIARY TO ITEM 201.10, CLEARING AND GRUBBING.

3. THE SIGNS TO BE PLACED ON THE OVERHEAD SIGN STRUCTURE SHALL BE ADJUSTED SO AS TO PROVIDE A MINIMUM SIGHT DISTANCE OF 400 FEET TO THE TRAFFIC SIGNALS AT THE BERLIN STREET AND RIVER STREET INTERSECTION.

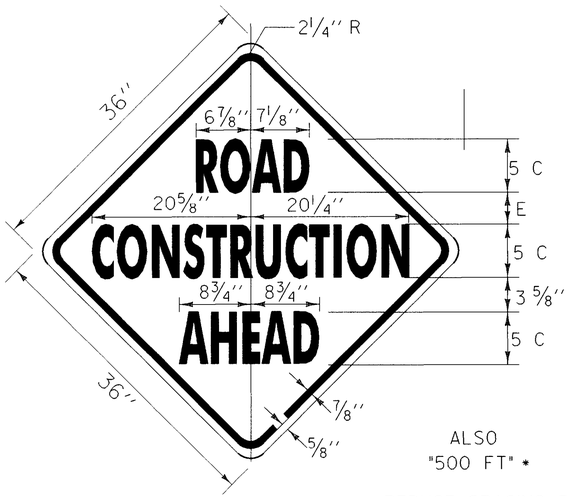
76B0339S.PRF
21-FEB-1996

DRAWN BY J.P.COTA DATE 8-90
SQUAD LEADER TDS
DESIGN FILE NO.
IPARM FILE
DATE PLOTTED 21-FEB-1996
PROJ. NAME MONTPELIER BERLIN ST.
PROJ. NO. MEGC M6400(7)
SHEET 132 OF 335 SHEETS



* = REDUCE SPACING 50%

COLORS-SEE STANDARD E-100
MATERIALS-SEE STANDARD E-100



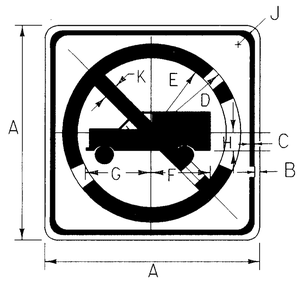
ALSO
"500 FT" *

* = REDUCE SPACING 50%

NOT TO SCALE

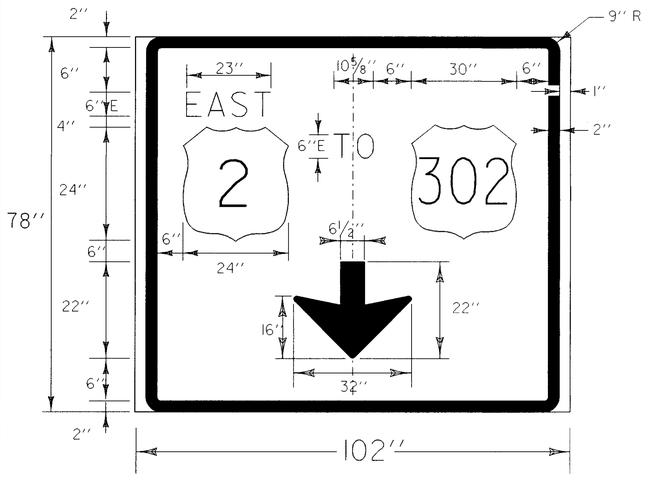
DIMENSIONS (INCHES)

SIGN	A	B	C	D	E	F	G	H	J	K
STD. & MIN.	24	⅜	⅝	10½	8½	6½	6⅞	1⅜	1½	1



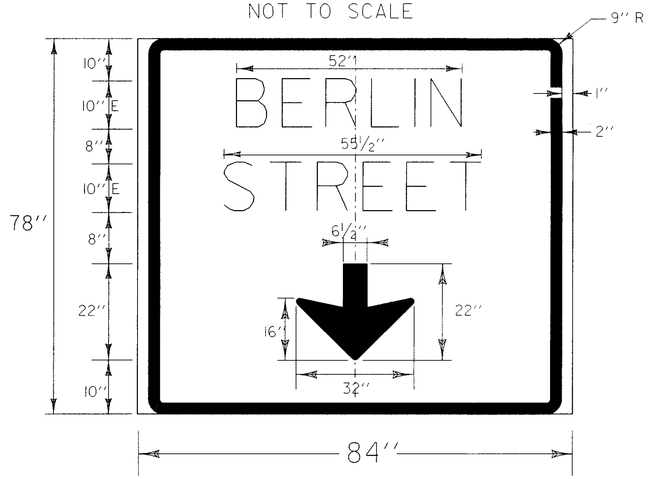
COLORS
CIRCLE AND DIAGONAL - RED (REFL.)
SYMBOL, BORDER, LEGEND - BLACK (NON-REFL.)
BACKGROUND - WHITE (REFL.)

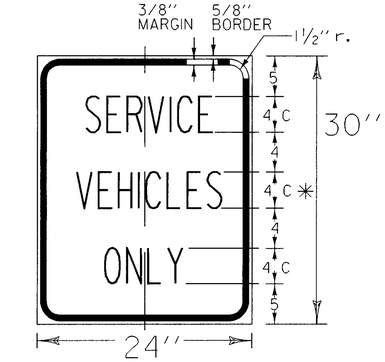
MATERIALS
SEE STD. E-144



(ENCAPSULATED LENS)
MATERIALS, EXTRUDED ALUMINUM PANELS
COLORS
LEGEND, BORDER AND ARROW - WHITE
BACKGROUND - GREEN

NOT TO SCALE

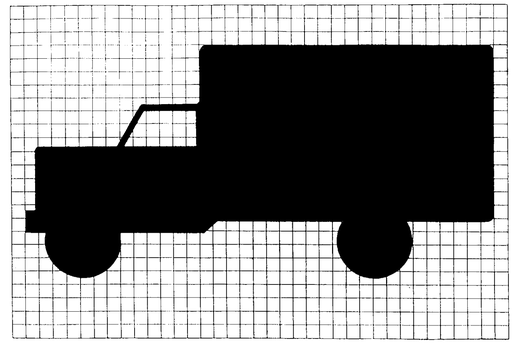




* REDUCE SPACING 50%

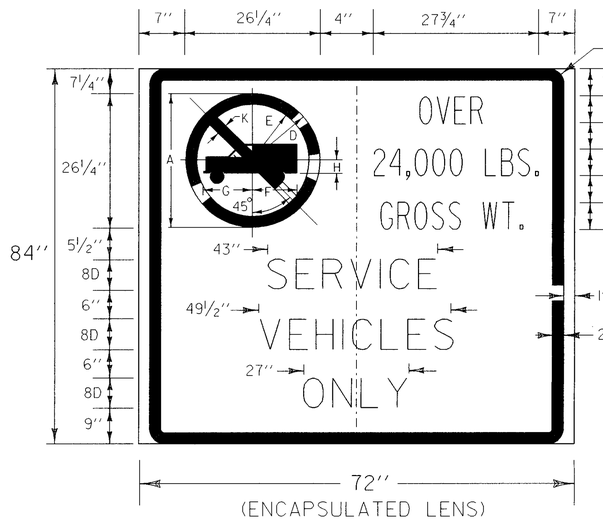
MATERIALS
SEE STD. E-141

LEGEND - BLACK (NON-REFL.)
BACKGROUND - WHITE (REFL.)



TRUCK SYMBOL DETAIL (DIMENSIONS IN INCHES)

A	B	C	D	E	F	G	H	J	K
26¼	-	-	13⅛	10⅝	8⅛	8½	1⅝	-	2½



(ENCAPSULATED LENS)
MATERIALS, EXTRUDED ALUMINUM PANELS
COLORS
(SYMBOL) CIRCLE AND DIAGONAL = RED
LEGEND = BLACK
BACKGROUND = WHITE
NOT TO SCALE

* REDUCE SPACING 40%

ARCHIVED ON CADD

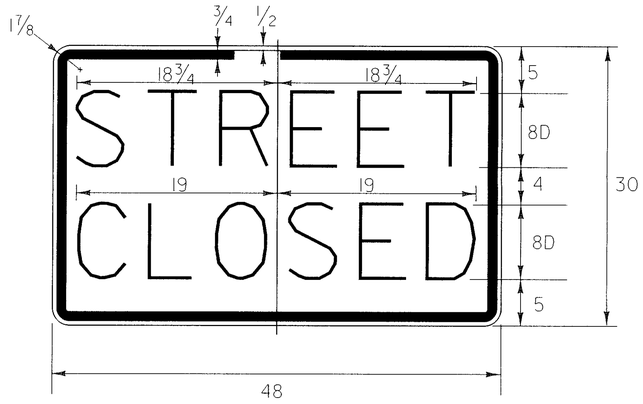
SURVEYED BY	N/A	DATE	N/A
DRAWN BY	COTA	DATE	2-22-90
SQUAD LEADER	SHERIDAN		
DESIGN FILE NO.	PETED.DGN		
PRF FILE	76B033DTI.PRF	DATE PLOTTED	
PROJ. NAME	MONTPELIER, BERLIN ST.		
PROJ. NO.	MEGC-M6400 (7)		
SHEET 133	OF 335 SHEETS		



COLORS
LEGEND - BLACK (NON-REFL.)
BACKGROUND - ORANGE (REFL.)
* REDUCE SPACING 50%
MATERIALS SEE STD E-100



COLORS
LEGEND - BLACK (NON-REFL.)
BACKGROUND - ORANGE (REFL.)
* REDUCE SPACING 25%
MATERIALS SEE STD E-100



COLORS
LEGEND - BLACK (NON-REFL.)
BACKGROUND - WHITE (REFL.)
MATERIALS SEE STD E-100



COLORS
LEGEND - BLACK (NON-REFL.)
BACKGROUND - ORANGE (REFL.)
* REDUCE SPACING 25%
** REDUCE SPACING 35%
MATERIALS SEE STD E-100

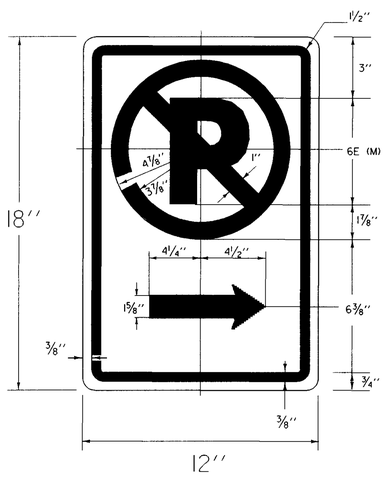


COLORS
LEGEND - BLACK (NON-REFL.)
BACKGROUND - WHITE (REFL.)
MATERIALS SEE STD E-100

ARCHIVED ON CADD

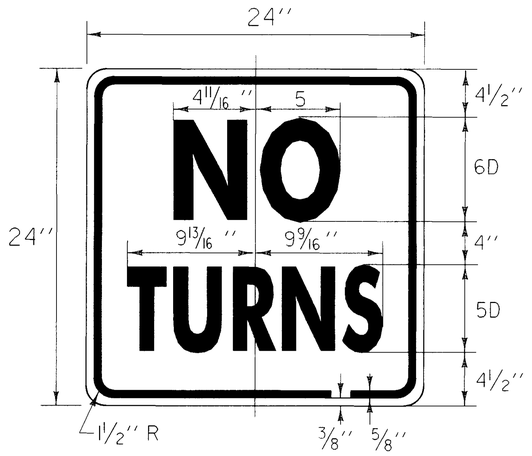
DATUM
VERTICAL _____
HORIZONTAL _____

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	J. P. COTA	DATE	2-90
SQUAD LEADER	TDS		
DESIGN FILE NO.	/usr/const/76b033/cb033a		
PRF FILE	76B033DT2.PRF	DATE PLOTTED	27-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET 134 OF 335 SHEETS			



ARROW LEFT ALSO

MATERIALS & COLORS: SEE STANDARD E-143

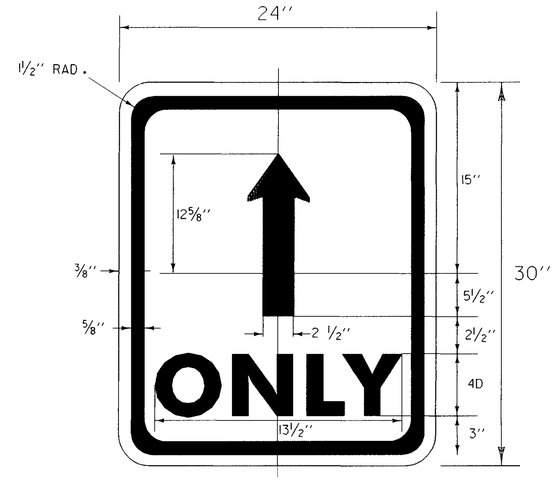


COLORS

LEGEND BLACK (NON-REFL.)

BACKGROUND WHITE (REFL.)

SEE STD. E-140 FOR MATERIAL REQUIREMENTS



COLORS: LEGEND & BORDER BLACK (NON-REFL.)
BACKGROUND WHITE (REFL.)

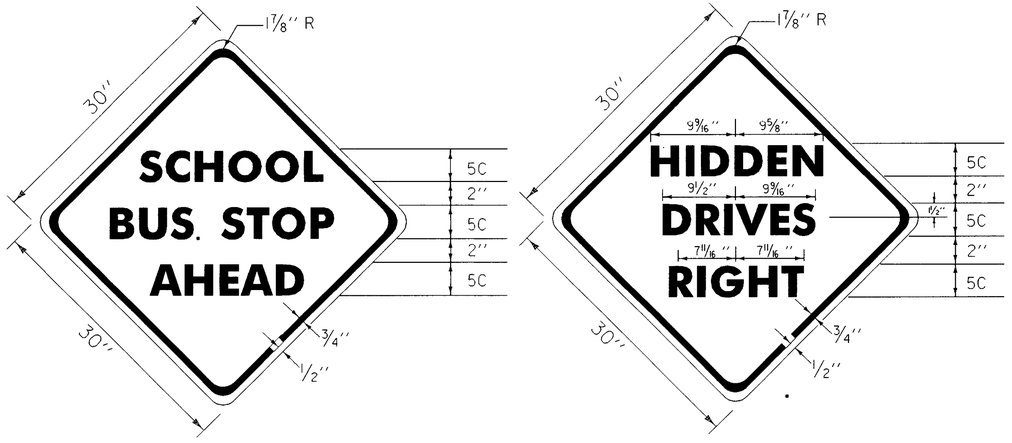
SEE STD. E-144 FOR MATERIAL REQUIREMENTS

COLORS

LEGEND - BLACK (REFLECTIVE)
BACKGROUND - YELLOW (REFLECTIVE)
(ENCAPSULATED LENS)

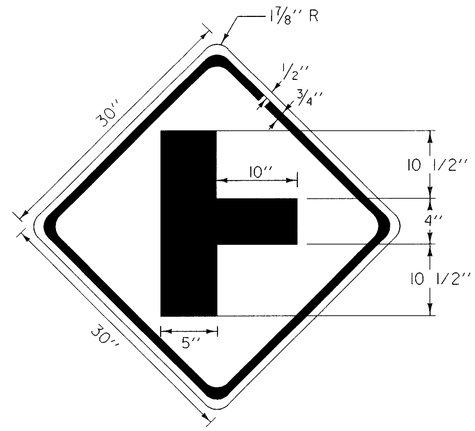


MATERIALS-SEE STANDARD E-131



COLORS: TEXT AND BORDER - BLACK (NON-REFL)
BACKGROUND - YELLOW (REFL)

SEE STANDARD E-150 FOR MATERIAL REQUIREMENTS



COLORS: TEXT AND BORDER - BLACK (NON-REFL)
BACKGROUND - YELLOW (REFL)

SEE STANDARD E-150 FOR MATERIAL REQUIREMENTS

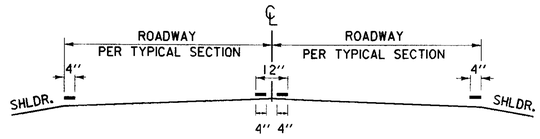
DATUM

VERTICAL _____

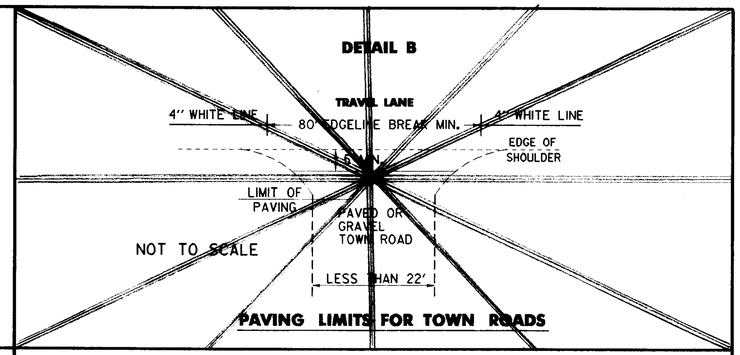
HORIZONTAL _____

ARCHIVED ON CADD

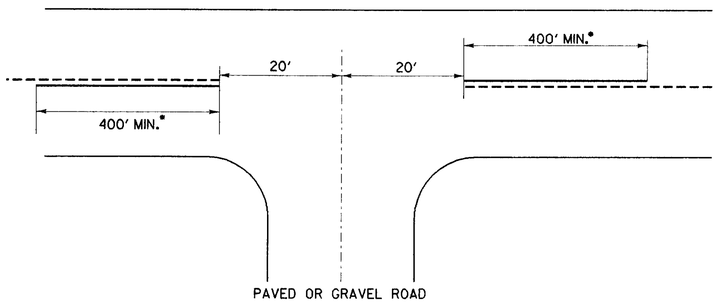
SURVEYED BY	N/A	DATE	N/A
DRAWN BY	const	DATE	2-90
SQUAD LEADER	TDS		
DESIGN FILE NO.	/usr/const/76b033/cb033a		
PRF FILE	76B033DT3.PRF	DATE PLOTTED	27-FEB-1996
PROJ. NAME	MONTPELIER		
PROJ. NO.	MEGC M 6400(7)		
SHEET 135 OF 335 SHEETS			



PAVEMENT MARKING PLACEMENT DETAIL



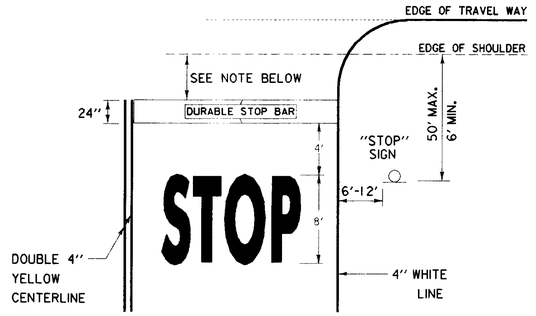
PAVING LIMITS FOR TOWN ROADS



A SOLID LINE IN THE DIRECTION OF TRAVEL IS BEGUN AT A LOCATION 400 FEET IN ADVANCE OF THE INTERSECTION. THE DISTANCE IS MEASURED FROM A POINT 20 FEET IN ADVANCE OF THE CENTERLINE OF THE INTERSECTING ROADWAY.

* CENTERLINE TREATMENT SHALL CONSIST OF A MINIMUM OF 400 FEET OF SOLID LINE IN ADVANCE OF THE INTERSECTION AND SHALL BE PAIRED WITH EITHER A SOLID OR DASHED LINE DEPENDING ON SIGHT DISTANCE AVAILABILITY IN THE OPPOSING LANE.

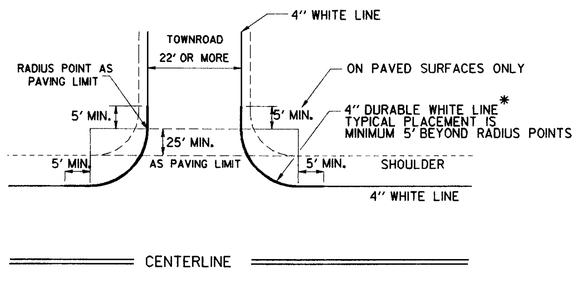
APPROACH TO A SIDE ROAD INTERSECTION



THE "DESIRED STOPPING POINT" IS THE LOCATION BASED ON SITE CONDITIONS THAT BEST ALLOWS THE STOPPED VEHICLE TO VIEW THE APPROACHING TRAFFIC . IN NO CASE MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.

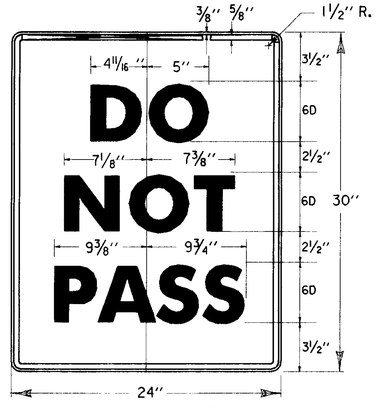
PAVEMENT MARKING DETAILS
(SEE TRAFFIC NOTE "F")

DETAIL A



* FOR ALL PAVED CLASS 1 & CLASS 2 TOWN HIGHWAYS AND ANY CLASS 3 TOWN HIGHWAY WIDER THAN 22 FEET.

DURABLE EDGELINE RADIUS LAYOUT TYPICAL AND PAVING LIMITS FOR TOWN ROADS



LEGEND - BLACK (NON-REFL.)
BACKGROUND - ORANGE (ENCAPSULATED LENS)
SEE NOTE # C SIGN DETAIL

Archived
On CADD

76B033R0S. PRF

ROSCAM.DGN

PAVEMENT MARKING & SIGN DETAIL SHEET

SURVEYED BY N/A DATE N/A
DRAWN BY WILDER DATE 03/90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. PETED.DGN DATE PLOTTED 17-DEC-1990
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 136 OF 335 SHEETS

PEDESTRIAN CONTROL

SPECIAL NOTES: PEDESTRIANS AND VEHICLES SHALL BE PHYSICALLY SEPARATED BY TYPE II BARRICADES.

PEDESTRIAN WALKWAYS SHALL BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND PEDESTRIAN HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED EQUIPMENT, ETC.

WALKWAYS SHALL BE AT LEAST 5 FEET WIDE.

ALL HAZARDS (DITCHES, TRENCHES, EXCAVATIONS, ECT.) NEAR OR ADJACENT TO WALKWAYS SHALL BE CLEARLY DELINEATED.

WHERE SAFE PEDESTRIAN PASSAGE CAN NOT BE PROVIDED, THEN PEDESTRIANS SHALL BE DIRECTED TO THE OTHER SIDE OF THE STREET BY APPROPRIATE TRAFFIC CONTROL DEVICES.

SIGNS AND TRAFFIC CONTROL DEVICES SHALL NOT BE A HAZARD TO PEDESTRIANS.

CONSTRUCTION SIGNS LOCATED NEAR OR ADJACENT TO A WALKWAY SHALL HAVE A 7 FOOT VERTICAL CLEARANCE.

REFLECTORIZED TRAFFIC CONTROL DEVICES ARE OF LITTLE VALUE TO PEDESTRIANS. WARNING LIGHTS SHALL BE USED TO DELINEATE THE PEDESTRIAN PATHWAY AND TO MARK HAZARDS AS APPROPRIATE.

IN AREAS WHERE THE SIDEWALKS HAVE BEEN REMOVED, BUT PEDESTRIAN ACTIVITIES ARE MAINTAINED, THE PEDESTRIAN "WALKING" AND "NO SIDEWALK" SIGNS SHALL BE PLACED 50 FT. IN ADVANCE OF AND EVERY 200 FT. ALONG THE WALKWAY, IN BOTH DIRECTIONS OF TRAVEL.

TRAFFIC CONTROL NOTES

1. THE TRAFFIC CONTROL PLAN SHOWN ON THIS SHEET IS DESIGNED FOR CONSTRUCTION ACTIVITIES WHICH MAY REQUIRE SHORT CLOSURES OF BERLIN STREET TO THRU TRAFFIC. DURING THE NORMAL ROADWAY RECONSTRUCTION, A MINIMUM OF ONE-WAY TRAFFIC WILL BE MAINTAINED DURING WORKING HOURS AND TWO-WAY TRAFFIC DURING NON-WORKING HOURS. TRAFFIC CONTROL DEVICES MAY BE MODIFIED FROM THOSE SHOWN ON THIS SHEET TO REFLECT THE DIFFERENT TYPES OF CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE RESIDENT ENGINEER.

2. WHEN BERLIN STREET IS CLOSED TO THRU TRAFFIC, LOCAL RESIDENTS SHALL BE PROVIDED ACCESS AT ALL TIMES, EXCEPT WHEN CONSTRUCTION ACTIVITIES SUCH AS INSTALLING WATER SERVICE LINES TO THE RESIDENTS PROHIBIT DIRECT ACESS. THE LOCAL RESIDENTS SHALL BE NOTIFIED IN ADVANCE OF THE TIME THAT THIS WILL OCCUR. CLOSURES ARE TO BE KEPT BETWEEN TWO SIDE STREETS WITH ACCESS TO RIVER STREET AS SHOWN ON THE DIAGRAM BELOW.

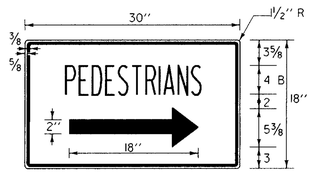
3. FLAGGERS SHALL BE POSTED AT EACH END OF THE SECTION OF STREET CLOSED TO THRU TRAFFIC.

4. EMERGENCY VEHICLES SHALL HAVE PRIORITY. ALL EFFORTS SHALL BE MADE TO ASSIST THEM TO THEIR DESTINATION. IF NECESSARY, WORK SHALL BE SUSPENDED UNTIL THEIR TASK IS COMPLETED AND THEY HAVE DEPARTED FROM THE CONSTRUCTION AREA.

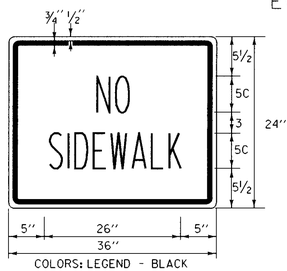
5. WHEN WORKING IN THE INTERSECTION OF BERLIN STREET AND RIVER STREET, THE TRAFFIC SIGNAL WILL BE PUT ON FLASH AND UNIFORMED TRAFFIC OFFICERS SHALL BE USED TO DIRECT TRAFFIC. REFER TO THE TRAFFIC SIGNAL PLAN SHEETS FOR ADDITIONAL DETAILS.

6. NON-APPLICABLE PORTABLE SIGNS ARE TO BE REMOVED DURING NON-WORKING HOURS. DURING WINTER SHUTDOWN, ALL FIXED SIGNS THAT DO NOT APPLY ARE TO BE COVERED OR REMOVED.

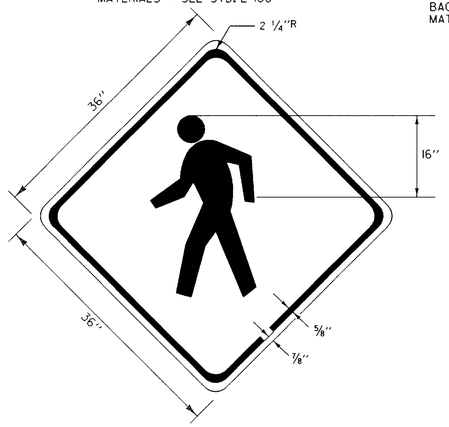
7. PEDESTRIANS SHALL BE PROVIDED FOR AS OUTLINED ON THIS SHEET.



MATERIALS - SEE STD. E-101
COLORS - SEE STD. E-101

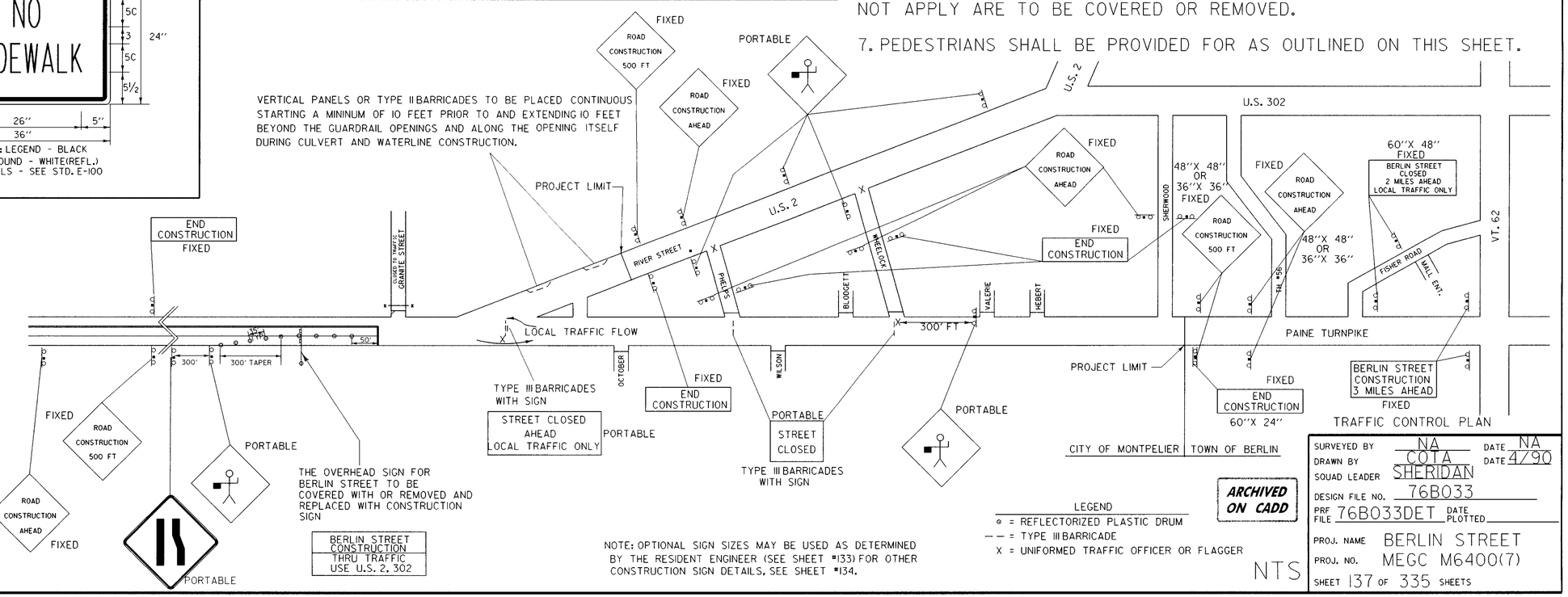


COLORS: LEGEND - BLACK
BACKGROUND - WHITE(REFL.)
MATERIALS - SEE STD. E-100



COLORS: LEGEND - BLACK
BACKGROUND - WHITE(REFL.)
MATERIALS - SEE STD. E-100

VERTICAL PANELS OR TYPE II BARRICADES TO BE PLACED CONTINUOUS STARTING A MININUM OF 10 FEET PRIOR TO AND EXTENDING 10 FEET BEYOND THE GUARDRAIL OPENINGS AND ALONG THE OPENING ITSELF DURING CULVERT AND WATERLINE CONSTRUCTION.



TRAFFIC CONTROL PLAN

NOTE: OPTIONAL SIGN SIZES MAY BE USED AS DETERMINED BY THE RESIDENT ENGINEER (SEE SHEET #133) FOR OTHER CONSTRUCTION SIGN DETAILS, SEE SHEET #134.

LEGEND
⊙ = REFLECTORIZED PLASTIC DRUM
– – = TYPE III BARRICADE
X = UNIFORMED TRAFFIC OFFICER OR FLAGGER

NTS

DATUM
VERTICAL N/A
HORIZONTAL N/A

SURVEYED BY NA DATE NA
DRAWN BY COTA DATE 4/90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. 76B033
PRF FILE 76B033DET DATE PLOTTED
PROJ. NAME BERLIN STREET
PROJ. NO. MEGC M6400(7)
SHEET 137 OF 335 SHEETS

ARCHIVED ON CADD

SIGNAL TIMING & PHASING

		PHASE A CLEAR TO ΦB	ΦC	ΦD	PHASE B CLEAR TO ΦC	ΦD	ΦA	PHASE C (PEDS) CLEAR TO ΦD	ΦA	ΦB	PHASE D CLEAR TO ΦA	ΦB	ΦC
PM PEAK	MIN GRN	10			8			—			10		
	VEH EXT.	1			2			—			1		
	MAX EXT.	3			—			—			—		
	MAX 1	47	3.5	3.5	18	3.5	3.5	4	10.2	10.2	20	4.5	4.5
	MAX 3	69			—			—			—		
OFF PEAK	MIN GRN	10			8			—			10		
	VEH EXT.	1			2			—			1		
	MAX EXT.	3			—			—			—		
	MAX 1	29	3.5	3.5	11	3.5	3.5	4	10.2	10.2	16	4.5	4.5
	MAX 3	40			—			—			—		
AM PEAK	MIN GRN	10			8			—			10		
	VEH EXT.	1			2			—			1		
	MAX EXT.	—			—			—			—		
	MAX 1	35	3.5	3.5	14	3.5	3.5	4	10.2	10.2	22	4.5	4.5
	MAX 3	—			—			—			—		
	FACE 2	G	Y	R	Y	R	Y	R	R	R	R	R	R
	FACE 2A	R	R	R	R	R	R	R	R	R	G	Y	R
	FACE 4	R	R	R	R	R	R	R	R	R	G	Y	R
	FACE 6	G	Y	R	Y	R	Y	R	R	R	R	R	R
	FACE 8	G	Y	R	G	Y	R	R	R	R	R	R	R
	FACE P	DW	DW	DW	DW	DW	DW	W	F	DW	DW	DW	DW

FLASHING OPERATION 10 PM – 6 AM

W=STEADY WALK DW=DONT WALK F=FLASHING DONT WALK B=BLANK

PM PEAK=3:30–5:30 AM PEAK=7-8 OFF PEAK=REST OF DAY

SIGNAL TIMING NOTES:

1.) THE SIGNAL SYSTEM SHALL RUN FULLY ACTUATED AND SHALL BE EQUIPPED WITH A TIME BASED COORDINATOR FOR FUTURE USE.

2.) THE SIGNAL SHALL DWELL ON MOVEMENTS 2 AND 6 WHEN THERE IS LACK OF CALL ON THE OTHER PHASES (SOFT RECALL).

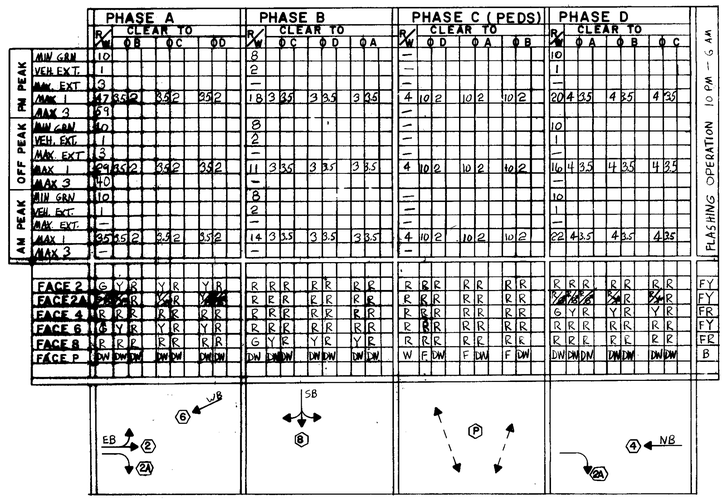
3.) THE RIGHT TURN MOVEMENT 2A RUNS AS AN OVERLAP WITH MOVEMENT 4 AND IS CONTROLLED BY A FIVE SECTION SIGNAL HEAD.

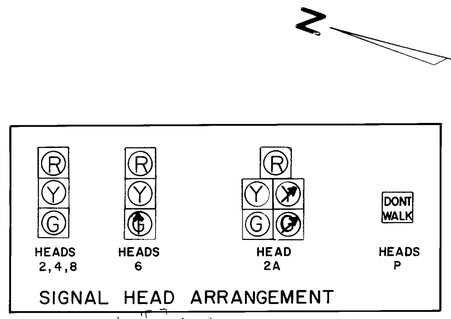
4.) THE FIBEROPTIC "NO TURN ON RED" SIGN SHALL BE ACTIVATED DURING THE EXCLUSIVE PEDESTRIAN PHASE C AND SHALL REMAIN ON DURING THE STEADY WALK AND THE FLASHING DONT WALK INDICATIONS. THIS SIGN SHALL BE POWERED THROUGH THE SIGNAL CONTROLER CABINET.

5.) THE PEDESTRIAN PHASE SHALL BE PROVIDED WITH AUDIO SIGNALS WHICH SHALL OPERATE DURING THE STEADY WALK INDICATION ONLY.

6.) ALL MOVEMENTS SHALL RUN WITH NON-LOCKING MEMORY FOR PRESENCE DETECTION, EXCEPT LOOP 8 WHICH IS PULSE.

7.) THE OFF-PEAK SETTINGS SHALL BE RUN FROM 7AM TO 10 PM ON WEEKENDS (SAT.-SUN.). THIS WILL REQUIRE A DIFFERENT DAY-OF-WEEK PROGRAM.





SIGNAL HEAD ARRANGEMENT

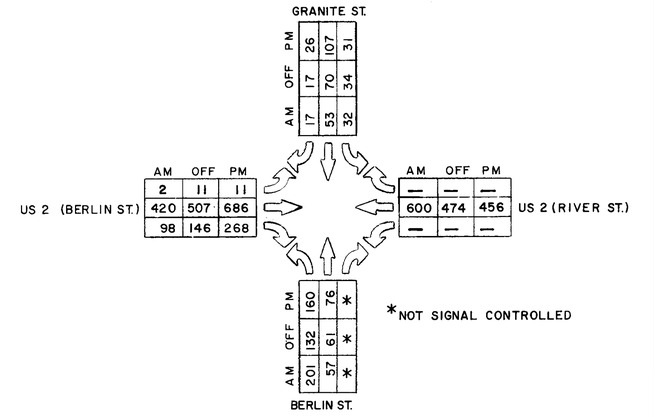
NOTE: LOUVERED BACK PLATES SHALL BE INSTALLED ON ALL SIGNAL HEADS DESIGNATED AS "2","2A" AND "6". THE TOP SECTION OF THE BACKPLATE MAY BE REMOVED OR MODIFIED TO PROVIDE ACCESS TO THE DISCONNECT HANGER(S). THE SPAN WIRE ATTACHMENT HEIGHT MAY NEED TO BE RAISED, DUE TO THE USE OF THE BACKPLATES, IN ORDER TO PROVIDE THE MINIMUM CLEARANCE OF 16.5 FEET.

VEHICLE DETECTOR LOOPS

LOOP NO.	LANE	CALL φ	SIZE	TYPE & NO. TURNS	INDUCTANCE CALC.	INDUCTANCE ACTUAL	RESISTANCE CALC.	RESISTANCE ACTUAL
2	US 2 EB	A	6'X50'	QUAD 1-TURN	192		.905	
2A	US 2 EB RT	A	6'X50'	QUAD 1-TURN	184		.875	
4	BERLIN NB	D	6'X50'	QUAD 1-TURN	146		.539	
6	US 2 WB	A	6'X50'	QUAD 1-TURN	149		.559	
8	GRANITE	B	EXISTING LOOP					

LOOP NOTES:

1.) EACH LOOP SHALL BE BROUGHT BACK TO THE CONTROLLER SEPARATELY AND HAVE ITS OWN AMPLIFIER.
2.) ALL LOOPS AND LEAD-INS SHALL BE NO.12 AWG WIRE.
3.) ALL LOOP SPLICES SHALL BE SOLDERED AND INDIVIDUALLY SEALED IN AN EPOXY SPLICE KIT.

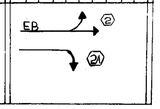


*NOT SIGNAL CONTROLLED

1989 AVERAGE WEEKDAY TRAFFIC VOLUMES FOR SIGNAL TIMING

FIRE PRE-EMPT

		DELAY	CLEAR FROM: ΦA	ΦB	ΦC	ΦD	HOLD	RELEASE TO ΦA
PM PEAK	MIN/MAX	0	3.5 2	3.3 5	10 2	4.3 5	45	10
OFF PEAK	MIN/MAX	0	3.5 2	3.3 5	10 2	4.3 5	45	10
AM PEAK	MIN/MAX	0	3.5 2	3.3 5	10 2	4.3 5	45	10
	FACE 2		G G	R R	R R	R R	G	G
	FACE 2A		R R	R R	R R	Y R	R	R
	FACE 4		Y R	R R	R R	R R	R	R
	FACE 6		R R	Y R	R R	R R	R	R
	FACE 8		DW DW	DW DW	F DW	DW DW	DW	DW
	FACE P							



SLEEVE FOR UTILITIES (MODIFIED)

10" PVC
PB2 TO PB1

ELECTRICAL CONDUIT

1" GALVANIZED STEEL
JB1 TO SP2 (LOOP 8 LEAD-IN)
SP2 (POLE RISER FOR LOOP 8)
SP2 (POLE RISER FOR PED. SIGNALS)

1½" PVC
PB3 TO CURB (LOOP 2 & 2A LEAD-IN)
PB1 TO CURB (LOOP 4 LEAD-IN)
PB1 TO CURB (LOOP 6 LEAD-IN)

2" PVC
P1 TO PB1
PB 3 TO PB 2 (LOOP 2 & 2A LEAD-IN)
P3 TO PB 2 (P3 WIRING)
SP1 TO PB 2 (LOOP 8 LEAD-IN)
SP1 TO PB 2 (SP1 & SP2 WIRING)
P2 TO PB2 (P2 WIRING)
PB2 TO PB1 (LOOP 2 & 2A & 8 LEAD-IN)
PB2 TO PB1 (SP1 & SP2 WIRING)
PB2 TO PB1 (P2 & P3 WIRING)
PB1 TO CONTROLLER (LOOP 2 & 2A & 8 LEAD-IN)
PB1 TO CONTROLLER (LOOP 4 & 6 LEAD-IN)
PB1 TO CONTROLLER (SP1 & SP2 WIRING)
PB1 TO CONTROLLER (P1 & P2 & P3 WIRING)
UTILITY POLE TO CONTROLLER (POWER FEED)
UTILITY POLE (POLE RISER FOR POWER FEED)

NO TURN ON RED

30" X 30" FIBEROPTIC MOUNT OVERHEAD, AS SHOWN. ACTIVATED BY PEDESTRIAN CALL, ON ONLY DURING PED. PHASE.

VEHICLE LOOP DETECTORS

AS NOTED TO RIGHT

PULLBOX

PB3, AS SHOWN

PULBOX (MODIFIED)

PB1, AS SHOWN
PB2, AS SHOWN

0 20 40
SCALE

LEGEND

- —NEW TRAFFIC SIGNAL CONDUIT
- —NEW PULLBOX(PB) OR JUNCTION BOX(JB)
- —NEW SIGNAL POLE(SP)
- —NEW PEDESTAL POST(P)
- —NEW LUMINAIRE(SL)
- —NEW TRAFFIC OR PEDESTRIAN SIGNAL HEAD
  - (P)—PEDESTRAIN
  - (7)—TRAFFIC(BY MOVEMENT)
- —NEW SIGNAL CONTROLLER(GROUND MOUNT)
- —NEW LOOP DETECTOR NUMBER
- —EXISTING LOOP DETECTOR NUMBER
- —NEW UTILITY POLE
- —EXISTING UTILITY POLE

TRAFFIC SIGNAL LAYOUT & TIMING

DONE BY DSP DATE 06/89
CKD BY DATE
T.D. LEADER
DESIGN FILE NO. DATE PLOTTED
PROJ. NAME MONTPELIER
PROJ. NO. M 6400(7)
SHEET 1-8 OF 35 SHEETS

BRUNING 44-232-74357

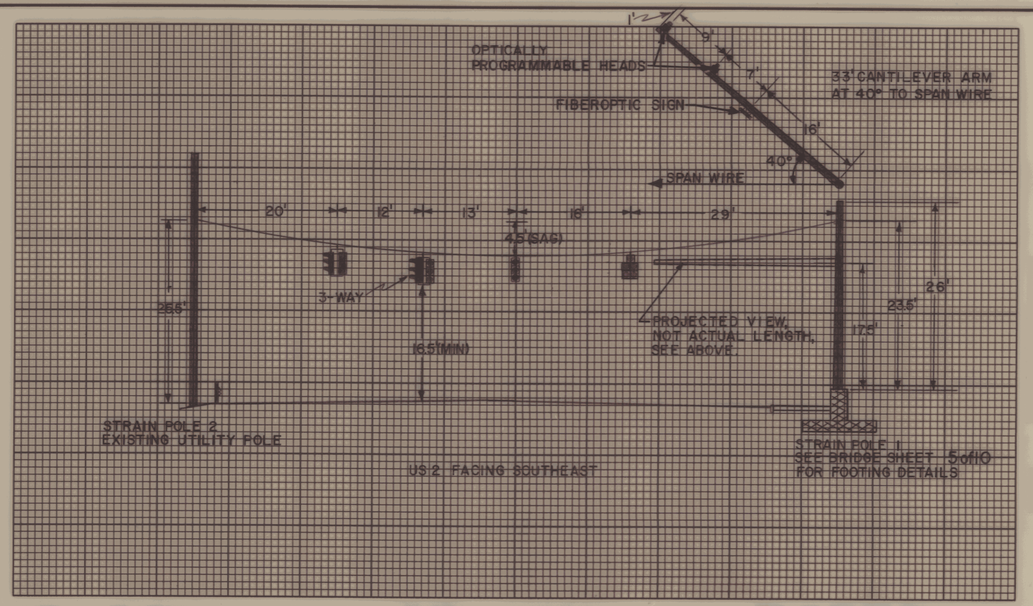
POLE NO.	POLE LENGTH GAGE & DIAMETER	B.C.	S	T	BASE DEPTH	BASE DIA.	ANCHOR BOLTS	POLE BKRK
1	12"ϕ-0GA.-26'	16"	17"	2"	SEE BELOW	1-3/4"	3"	
	W/ 33' CANTILEVER ARM 9"ϕ - 7GA.							

NOTE: ANCHOR BOLTS, BASE PLATE, AND FOOTING DIMENSIONS ARE BASED ON DESIGN POLE DIMENSIONS AND YIELD STRENGTH SHOWN. POLES SUPPLIED OF DIFFERENT SIZE OR STRENGTH MUST HAVE BASE PLATE AND ANCHOR BOLT DIMENSIONS SHOWN ABOVE. BACKRAKE (BKRK) SHOWN IS AS MEASURED AT THE TOP OF THE POLE.

REFER TO NOTE 4 (GENERAL NOTES) FOR INFORMATION ON THE BASE AND ANCHOR BOLTS.

DESIGN CRITERIA USED:
POLE FY = 48 KSI
BASE PLATE FY = 36 KSI
ANCHOR BOLTS FY = 55 KSI

STRAIN POLE



IF MORE THAN ONE LOCATION SEE SHEET(S) FOR ADDITIONAL DETAILS.

(SEE SHEET(S) FOR LOCATION PLAN)

DEAD LOAD SPAN WIRE TENSION= 1120 lbs
LIVE LOAD SPAN WIRE TENSION= 2240 lbs
SCALE 1" = 10'

SPAN WIRE CROSS SECTION

GENERAL NOTES

1) ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND AASHTO'S STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGN, LUMINAIRES AND TRAFFIC SIGNALS, 1985. SEE SPECIFICATION BOOK FOR REVISED ALLOWABLE BENDING STRESS.

2) TRAFFIC CONTROL SIGNAL STRAIN POLES SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 752.02, STRAIN POLES AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 678 - TRAFFIC CONTROL SIGNALS.

3) STEEL POLE CAPS SHALL BE PROVIDED WITH A 2-INCH BUSHED (BLIND) ELECTRICAL ENTRANCE WHEN APPLICABLE. STRAIN POLES SHALL BE PROVIDED WITH A 2-INCH (BLIND) HALF COUPLING FOR SIGNAL CABLE, LOCATED 6 INCHES BELOW THE SPANWIRE ATTACHMENT HEIGHT.

4) THE BASE FOR TRAFFIC SIGNAL STRAIN POLE # 1 IS TO BE INCORPORATED INTO THE RETAINING WALL AS DETAILED ON BRIDGE SHEET(S) 5 OF 10. . THE ANCHOR BOLTS (GALVANIZED) ARE TO BE SUPPLIED, INSTALLED AND ALL RELATED FOOTING WORK IS TO BE DONE AS A PART OF THE CONSTRUCTION OF THE RETAINING WALL AND NOT INCLUDED IN THE TRAFFIC SIGNAL ITEM, EXCEPT THE TRAFFIC SIGNAL CONDUITS AND GROUND ROD(S) SHALL BE SUPPLIED AND PLACED UNDER THE SUPERVISION OF THE TRAFFIC SIGNAL SUBCONTRACTOR, IF ONE, AND PAID UNDER THE APPROPRIATE SIGNAL BID ITEM.

5) NO MODIFICATION SHALL BE ALLOWED TO THE POLE BASE DIMENSIONS SHOWN UNLESS AGREED TO IN WRITING BY ALL PARTIES INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE MODIFIED FOOTING/WALL DESIGN.

6) ADDITIONAL DESIGN CRITERIA:

WIND LOAD - 25 LBS PER SQUARE FOOT (MIN.) ON THE EXPOSED POLE SURFACE.

7) NOTE 4 ABOVE SHALL ALSO APPLY TO THE FOOTINGS FOR THE PEDESTRIAN PEDESTAL POSTS.

8) THE CONTRACTOR SHALL WORK CLOSELY WITH THE SUPPLIER OF THE TRAFFIC SIGNAL POLES TO INSURE THE PROPER SETTING AND ALIGNMENT OF THE ANCHOR BOLTS.

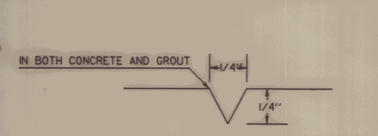
9) BLANK

10) EACH METAL POLE SUPPORTING EITHER VEHICLE OR PEDESTRIAN TRAFFIC SIGNAL SHALL BE GROUNDED. RESISTANCE OF MADE ELECTRODES. A SINGLE ELECTRODE CONSISTING OF A GROUND ROD WHICH DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS SHALL BE AUGMENTED BY AT LEAST ONE ADDITIONAL ELECTRODE. THEY SHALL BE AT LEAST 6 FEET APART.

11) STRAIN POLE BASE PLATES SHALL BE STAMPED WITH POLE DIAMETER, HEIGHT, YIELD STRENGTH, AND GAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG ATTACHED TO THE POLE NEAR THE HANDHOLE.

12) ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION OF WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AWS D.1.1.- 80 AS MODIFIED BY THE LATEST EDITION OF AASHTO STANDARD STEEL SPECIFICATIONS FOR WELDING OF STRUCTURAL HIGHWAY BRIDGES . THE SHEILDED METAL ARC WELDING (SMAW) OR SUBMERGED ARC WELDING (SAW) PROCESSES SHALL BE USED FOR ALL WELDING UNLESS OTHER PROCESSES ARE APPROVED, ON A PROJECT BY PROJECT BASIS, FROM ACCEPTABLE RESULTS OF PROCEDURE QUALIFICATION TESTS. WHERE WELDMENTS ARE TO BE GALVANIZED AFTER WELDING, A TYPE OF FILLER METAL WHICH WILL DEPOSIT WELD METAL WITH A SILICON CONTENT LESS THAN 0.4 PERCENT SHALL BE USED. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.

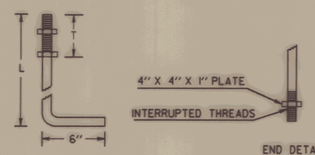
13) IN ACCORDANCE WITH SUBSECTION 105.03, SHOP DRAWINGS (6 COPIES OF EACH; 1- TRAFFIC & SAFETY, 1 - PRIME CONTR. ,1 - SUB CONTR. , 3 - CONST.) SHALL BE SUBMITTED TO THE VERMONT AGENCY OF TRANSPORTATION FOR APPROVAL PRIOR TO FABRICATION. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING INFORMATION :
   A) DETAILED DRAWING OF EACH COMPONENT OF THE STRAIN POLE.
   B) MATERIAL SPECIFICATIONS FOR EACH COMPONENT OF THE STRAIN POLE BY COMPLETE SPECIFICATIONS OR BY REFERENCE TO APPLICABLE ASTM STANDARDS.
   C) NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRAIN POLE STATIONING. (TO BE INCLUDED ON EACH SHEET INCLUDING STANDARD SHEETS AND SPECIFICATION SHEETS).
   D) DETAILS FOR LOCATION OF LUMINAIRE ARM(S) ON STRAIN POLE(S).
   E) ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS. [POLE HEIGHT, SPAN WIRE ATTACHMENT HEIGHT, POLE DIAMETER (TOP AND BOTTOM), POLE GAGE, HANDHOLE (SIZE AND LOCATION), BASE PLATE, BOLT CIRCLE, ANCHOR BOLT SIZE]
   F) POLE BASE STAMPING DETAIL.
   G) DEAD LOAD DEFLECTION INFORMATION.
   H) WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWINGS. (SEE SUBSECTION 506.10) THE FOLLOWING INFORMATION WILL BE REQUIRED FOR ALL WELDED JOINTS (ALUMINUM OR STEEL):
      (a) PROCEDURE SPECIFICATIONS PER AWS D1.1 APPENDIX E FORM E1
      (b) PROCESS AND PROCEDURE QUALIFICATION TESTS PER AWS D1.1 APPENDIX E FORM E2
      (c) CERTIFICATE OF CONFORMANCE TO SPECIFICATIONS FOR FILLER MATERIAL. WHEN USING ANY GMAW OR FCAW WELDING PROCESS (WITH PRIOR APPROVAL AS NOTED ABOVE), THE FOLLOWING WILL ALSO BE REQUIRED: A MANUFACTURER'S CERTIFICATE THAT THE GAS OR GAS MIXTURE IS SUITABLE FOR THE INTENDED APPLICATION AND MEETS THE DEW POINT REQUIREMENTS. REFERENCE-ASSHTO MODIFICATION OF AWS D1.1 SEC. 4.18



USED FOR CONDUIT LOCATION, SEE AT RIGHT "SECTION" DETAIL.

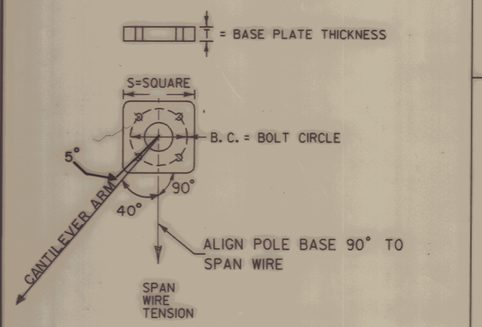
2" SCORE MARK DETAIL

ANCHOR BOLT DETAIL		
SIZE	L	T
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9
2" X 96"	96	9



1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL



BASE PLATE DETAIL

SECTION

ELEVATION

STRAIN POLE FOOTING

STRAIN POLE/FOOTING DETAIL SHEET

TD112

PREPARED BY DSP DATE 07/89
CHECKED BY _____ DATE ____
DESIGN SUPERVISOR _____ DATE ____
PROJ. MONTPELIER M 6400(7)
TRAFFIC SHEET NO. ____ OF ____
SHEET 139 OF 335 SHEETS

A. NEW EQUIPMENT
1. ALL SIGNAL HEADS MOUNTED ON SPAN WIRES SHALL HAVE 12" POLYCARBONATE SECTIONS. ALL HOUSINGS SHALL BE FEDERAL YELLOW WITH FLAT BLACK DOORS AND VISORS. ALL SPAN WIRE MOUNTED TRAFFIC SIGNALS SHALL HAVE DISCONNECT HANGERS WITH NON-ALUMINUM OR STAINLESS STEEL BUSHED BALANCE ADJUSTER FITTINGS. TRAFFIC SIGNAL HEADS MOUNTED ON THE CANTILEVER ARM SHALL BE OPTICALLY PROGRAMMABLE WITH 12" LENSES. THEY SHALL BE PROGRAMMED SO THAT THE SIGNAL INDICATIONS ARE VISIBLE ONLY TO VEHICLES APPROACHING THE INTERSECTION ON BERLIN STREET AND ARE NOT VISIBLE TO VEHICLES ON RIVER STREET. THE CANTILEVER MOUNTED SIGNALS SHALL BE FIXED MOUNTED WITH AN ADJUSTABLE TYPE BRACKET AND A TERMINAL COMPARTMENT FOR THE SIGNAL WIRING.
2. TRAFFIC SIGNAL CONTROLLER & CABINET.
EACH UNIT SHALL BE A VEHICLE, AND WHERE APPLICABLE, PEDESTRIAN ACTUATED SOLID STATE CONTROLLER CAPABLE OF PRODUCING THE TIMING AND PRE-EMPTION AS SHOWN ON THE PLANS. ALL CONTROLLERS SHALL HAVE A MINIMUM OF 8 PHASES. EACH PHASE (USED OR UNUSED) SHALL HAVE A LOAD SWITCH AND ALL NECESSARY FLASH TRANSFER RELAYS. EACH INSTALLATION SHALL INCLUDE TIME CLOCK(S) WITH BATTERY BACKUP, 12 CHANNEL CONFLICT MONITOR WITH STOP TIMING FUNCTION, LED DISPLAY LOAD SWITCHES (INPUT SIDE), REMOTE FLASHER, VEHICLE DETECTOR AMPLIFIERS, SURGE PROTECTION, LAMP RECEPTACLE AND CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTION. ALL CONTROLLERS SHALL HAVE DUAL MAXIMUM CAPABILITIES AND TIME BASE COORDINATION WHICH SHALL PROVIDE FOUR CYCLE LENGTHS WITH MULTIPLE PROGRAMS PER CYCLE. EACH SYSTEM SHALL BE GROUND MOUNTED IN A PREWIRED NEMA CABINET WITH A POLICE DOOR HAVING STANDARD SWITCHES (MAIN ON-OFF, SIGNAL ON/OFF, AND FLASH. THERE SHALL BE A WATER PROOF PLASTIC ENVELOPE ATTACHED TO THE CABINET INTERIOR FOR STORAGE OF THE CONTROLLER MANUAL AND PLAN SHEETS. ALL CONTROLLERS SHALL BE "ECONOLITE" BRAND, MODEL ASC -8000. THE CONTROLLER SHALL BE EQUIPPED WITH AN ISOLATION MODULE, WIRING HARNESS, AND FOUR ISOLATION RELAYS FOR EMERGENCY VEHICLE PRE-EMPTION. REFER TO THE PRE-EMPTION NOTES FOR ADDITIONAL DETAILS. THE CONTROLLERS/TBC SHALL BE SHIPPED FROM THE FACTORY WITH THE EEPROM "MEMORY CHIP" PRE-PROGRAMMED WITH THE SETTINGS AS SHOWN ON THE PLANS AND A REPRESENTATIVE OF THE MANUFACTURER SHALL BE ON THE PROJECT SITE FOR TURN-ON OF THE UNITS. IN ADDITION TO EQUIPMENT FURNISHED TO PROVIDE A FUNCTIONAL SIGNAL SYSTEM, THE CONTRACTOR SHALL SUPPLY THE FOLLOWING SPARE PARTS: ONE LOAD SWITCH, ONE TRANSFER RELAY AND ONE EEPROM MEMORY MODULE PER INTERSECTION. THIS EQUIPMENT MAY BE USED DURING THE CONSTRUCTION PERIOD TO REPLACE MALFUNCTIONING EQUIPMENT BUT MUST BE REPLACED AND MAINTAINED IN THE CABINET PRIOR TO COMPLETION. THE CONTROLLER CABINET(S) SHALL HAVE A POLISHED ALUMINUM NATURAL FINISH AND BE PROVIDED WITH A #2 LOCK, A PADLOCK (MASTER WITH #3220 KEY) AND A STANDARD POLICE DOOR LOCK. EACH LOCK SHALL HAVE 2 KEYS. EACH CABINET SHALL INCLUDE A 120° - 160° FAN/THERMOSTAT. THE CABINET DOOR SHALL BE SUPPLIED WITH TEST SWITCHES FOR EACH PHASE. TBC SHALL BE PROGRAMMED SO AS TO AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME CHANGES.
3. ALL NEW EQUIPMENT SHALL MEET OR EXCEED NEMA STANDARDS AND IMSA OR ITE SPECIFICATIONS, WHERE APPLICABLE.
4. THE ELECTRIC CABLE SHALL BE LASHED ON THE SPAN WIRE.
5. STRANDED WIRE SHALL BE USED FOR ALL UNSUPPORTED AND SPAN WIRE SUPPORTED WIRE.
6. THE POWER SOURCE FOR THE NEW TRAFFIC SIGNAL CONTROLLER AND RELATED EQUIPMENT SHALL BE FROM THE UTILITY POLE TO BE PLACED IN THE TRAFFIC ISLAND AT STATION 120 + 69 (+/-). THE CONTRACTOR SHALL PROVIDE THE WEATHERHEAD, CONDUIT, WIRE, ETC. NECESSARY TO EXTEND POWER TO THE GROUND MOUNTED CONTROLLER.
7. STEEL STRAIN POLES SHALL BE DESIGNED USING THE LATEST REVISION OF AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS". ALL STRAIN POLES SHALL BE BACKRAKED. POLE DIAMETER, HEIGHT, YIELD STRENGTH, AND GAGE SHALL BE STAMPED ON THE POLE BASE PLATE OR ON AN ATTACHED METAL TAG.

B. REMOVAL OF EXISTING OR REUSE OF SALVAGED EQUIPMENT
1. ALL REMOVED AND NOT REUSED EQUIPMENT (HEADS, CONTROLLERS, CABINETS, POLES, ETC.) SHALL BE DELIVERED TO THE MONTPELIER PUBLIC WORKS FACILITY. REMOVAL OF EQUIPMENT SHALL INCLUDE REMOVAL OF CONCRETE BASES AND BACKFILL OF THE HOLES. ANY REMOVED MATERIAL NOT DESIRED BY THE CITY SHALL BE DISPOSED OF BY THE CONTRACTOR. WHERE APPLICABLE, EQUIPMENT THAT IS DAMAGED BY THE CONTRACTOR DURING REMOVAL SHALL BE REPAIRED OR REPLACED, TO THE SATISFACTION OF THE STATE AND CITY, AT THE CONTRACTOR'S EXPENSE.
2. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING SIGNAL SYSTEM SHALL BE CONSIDERED INCLUDED IN THIS UNIT BID PRICE OF THE NEW SIGNAL SYSTEM.

C. SIGNAL OPERATION
1. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION.
2. FULL OPERATION SHALL NOT BE INITIATED EXCEPT IN THE PRESENCE OF THE TRAFFIC AND SAFETY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
3. THE TRAFFIC SIGNALS SHALL NOT OPERATE WITHOUT THE PAVEMENT MARKINGS AND SIGNAL RELATED SIGNING IN PLACE.
4. ALL SIGNALS SHALL DWELL ON THE MAIN STREET THRU MOVEMENT (PHASE A) UNLESS OTHERWISE NOTED.

D. PULLBOXES AND JUNCTION BOXES
1. STANDARD SIZE PULLBOXES AND JUNCTION BOXES ARE DETAILED ON STANDARD SHEET E - 173. MINIMUM JUNCTION BOX SIZE SHALL BE 18" X 12" X 12", (A X B X C), OR LARGER AS REQUIRED BY THE ELECTRICAL CODE.

D. PULLBOXES AND JUNCTION BOXES (CONT.)
2. STANDARD SIZE PULLBOXES PLACED IN THE ROADWAY SHOULDER OR SIDEWALK SHALL HAVE STEEL COVERS OF A MINIMUM THICKNESS OF 1/2" AND SHALL MEET ASTM A-36. THESE COVERS SHALL BE HELD IN PLACE WITH 3/8" DIA. STAINLESS STEEL PENTA-HEAD BOLTS. THE COVER SHALL BE APPROPRIATELY MACHINED SO THAT THE BOLT HEADS ARE FLUSH WITH COVER. TWO PENTA-HEAD SOCKETS SHALL BE PROVIDED TO THE CITY.
3. THE DESIGN OF THE DOUBLE PULLBOXES, DENOTED AS PULLBOX 2 AND PULLBOX 3, IS INCLUDED ON THE PLANS. REFER TO THE DETAIL FOR SPECIFIC MATERIAL AND DIMENSIONAL REQUIREMENTS.
4. ALL SPLICES IN PULLBOXES/JUNCTION BOXES SHALL BE SOLDERED AND SEALED IN A WATERPROOF EPOXY SPLICE KIT. EACH SPLICE SHALL BE IN A SEPERATE SPLICE KIT.

E. TRAFFIC SIGNAL CONDUIT
1. ALL UNDERGROUND TRAFFIC SIGNAL CONDUIT SHALL BE NON-METALLIC, EXCEPT AS NOTED ON THE PLANS. ALL EXPOSED CONDUIT (POLE RISERS) SHALL BE SCHEDULE 80 PVC, OR AS NOTED.
2. MINIMUM CONDUIT SIZES SHALL BE:
A) 1-1/2" FOR LOOP LEAD-INS
B) 2" FOR ALL OTHERS, EXCEPT AS NOTED FOR LOOP 8 AND LEAD-IN. SEE CHART ON STD E-172 FOR CONDUIT FILL LIMITS.
3. WHEN CONDUIT IS PLACED BELOW THE ROADWAY OR ACROSS SIDE ROADS, IT SHALL BE PLACED IN A PVC SLEEVE, SIZE AS SHOWN ON THE PLANS (8" MINIMUM).
4. THE MINIMUM DEPTH BELOW THE ROADWAY SURFACE FOR THE PLACEMENT OF SLEEVES & CONDUIT SHALL BE 5 FEET. THE MINIMUM DEPTH BELOW SIDEWALK OR GROUND FOR THE PLACEMENT OF SLEEVES AND CONDUIT SHALL BE 3 FEET.
5. SIX INCH WIDE YELLOW PLASIC MARKING TAPE SHALL BE PLACED IN THE EXCAVATED TRENCH 6 TO 12 INCHES BELOW THE FINISHED GRADE FOR ALL CONDUIT AND SLEEVE RUNS EXCEPT THOSE JACKED UNDER THE ROADWAY.
6. THE SLEEVES SHOWN AS 10" PVC ARE TO BE PAID AS ITEM 625.10, SLEEVE FOR UTILITIES (MODIFIED) 10" P.V.C.. THE ITEM IS MODIFIED SUCH THAT THE UNIT BID PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH PROVIDING THE SLEEVE AND PLACEMENT OF THE SLEEVE IN AN EXCAVATED TRENCH. THE COST OF EXCAVATING AND BACKFILLING THE TRENCH SHALL BE CONSIDERED TO BE A PART OF THE UNIT BID PRICE FOR THE SMALLER CONDUITS WHICH ARE PLACED WITHIN THE LARGER SLEEVE. WHENEVER THE TERM "SLEEVE" IS NOTED FOR TRAFFIC SIGNAL WORK ON THE PLANS, THE ABOVE NOTE(S) SHALL APPLY.
7. CONDUIT USED FOR POLE RISERS SHALL BE PAID AT THE UNIT BID PRICE PER LINEAL FOOT OF CONDUIT.

F. VEHICLE LOOP DETECTORS
1. LOOP DETAILS ARE FOUND ON STANDARD SHEET E-172.
2. THE GRANITE STREET LOOP IS AN EXISTING PULSE LOOP MOUNTED UNDER THE BRIDGE IN 1/2 INCH PVC AND GALVANIZED STEEL CONDUIT. THE EXISTING LOOP SHALL BE RETAINED AND THE FOLLOWING WORK DONE:
A) THE EXISTING STEEL CONDUIT WHICH RUNS ALONG THE GRANITE BLOCK ABUTMENT AND WINGWALL SHALL BE SECURED EVERY FOUR FEET TO THE STONE BY DRILLING AND USING LAGS AND CONDUIT CLIPS, OR BY AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
B) AT THE POINT WHERE THE EXISTING CONDUIT LEAVES THE WINGWALL, IT SHALL BE BROUGHT UNDER GROUND AND INTO A JUNCTION BOX FOR THE PURPOSE OF SPLICING THE EXISTING LOOP WIRES TO A NEW LEAD-IN WIRE. IN ORDER TO ACCOMPLISH THE ABOVE WORK, ADDITIONAL GALVANIZED STEEL CONDUITS, FITTINGS, COUPLINGS, ETC. MAY BE REQUIRED. CARE SHALL BE TAKEN TO INSURE THAT THE EXISTING LOOP WIRES ARE NOT DAMAGED DURING THIS PROCEDURE.
C) THE NEW LEAD-IN SHALL BE PLACED IN 1-INCH GALVANIZED STEEL CONDUIT AND SHALL RUN FROM THE NEW JUNCTION BOX (JBI) UNDERGROUND TO THE EXISTING WOOD STRAIN POLE (SP2), UP THE POLE TO AN APPRORIATE WEATHERHEAD. THE COST OF THE WORK NOTED IN A,B, AND C ABOVE SHALL BE CONSIDERED A PART OF THE TRAFFIC SIGNAL UNIT BID PRICE, EXCEPT FOR THE JUNCTION BOX AND 1-INCH GALVANIZED STEEL CONDUIT WHICH ARE PAID UNDER THEIR OWN BID PRICES.

G) FIBEROPTIC "NO TURN ON RED" SIGN
THE CONTRACTOR SHALL SUPPLY A FIBEROPTIC "NO TURN ON RED" SIGN WITH A MINIMUM OUTSIDE DIMENSION OF 30 INCHES BY 30 INCHES AND IT SHALL MEET THE REQUIREMENTS OUTLINED IN THE SPECIAL PROVISIONS. THIS SIGN SHALL OPERATE THROUGH THE TRAFFIC SIGNAL CONTROLLER AND BE ACTIVATED AS SHOWN ON THE PLANS. THE COST FOR THIS SIGN AND ITS INSTALLATION, INCLUDING ALL INCIDENTALS SHALL BE CONSIDERED A PART OF THE TRAFFIC SIGNAL SYSTEM.

H) GENERAL
1) ALL ELECTRICAL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE STATE ELECTRICAL INSPECTOR. ALL WORK MUST MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
2) AFTER PROJECT ACCEPTANCE, THE TRAFFIC SIGNAL INSTALLATION(S) SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CITY OF MONTPELIER.
3) THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTLITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE SIGNAL AND RELATED EQUIPMENT.
4) A METAL PLAQUE LISTING OWNERSHIP AND EMERGENCY PHONE NUMBERS SHALL BE ATTACHED TO THE OUTSIDE OF THE CONTROLLER CABINET.
5) THE REQUIRED 30 DAY TEST PERIOD FOR THE SIGNAL EQUIPMENT SHALL NOT BEGIN UNTIL ALL CONSTRUCTION IS COMPLETE AND ALL PAPERWORK HAS BEEN DONE TO THE SATISFACTION OF THE AGENCY.

I) FIRE PRE-EMPTION EQUIPMENT NOTES:
1) THE FIRE PRE-EMPTION EQUIPMENT WILL CONSIST OF DTMF-3-DIGIT-ENCODER/DECODER. THE ACTUATION WILL BE FROM A PROGRAMMABLE MICROPHONE MOUNTED IN THE VEHICLES (AMBULANCE OR FIRE TRUCKS) AS DETERMINED BY THE CITY. THE METHOD OF TRANSMITTAL WILL BE BY RADIO FREQUENCY. THE CITY WILL BE RESPONSIBLE TO PROVIDE AND INSTALL THE EQUIPMENT IN THEIR VEHICLES.
2) THE FIRE PRE-EMPTION RECEIVER WILL BE SUPPLIED BY THE CITY AND INSTALLED IN THE TRAFFIC SIGNAL CONTROLLER CABINET BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WHATEVER MATERIALS ARE NECESSARY TO SUPPLY POWER TO THE RECEIVER AND TO RELAY THE MOMENTARY CLOSURE OF THE CONTACTS OUT THE BACK OF THE RECEIVER TO THE CONTROLLER TO INDICATE THE BEGINNING OF THE PRE-EMPTION SEQUENCE.
3) IT SHALL BE THE RESPONSIBILITY OF THE CITY TO TROUBLE SHOOT AND REPLACE ANY DEFECTIVE PRE-EMPTION EQUIPMENT SUPPLIED BY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO TROUBLE SHOOT AND REPLACE OR REPAIR ANY OR THE FIRE PRE-EMPTION EQUIPMENT IN THE CONTROLLER CABINET, EXCEPT THE RECEIVER SUPPLIED BY THE CITY.
4) A TEST RUN OF THE FIRE PRE-EMPTION EQUIPMENT SHALL BE CONDUCTED PRIOR TO ACCEPTANCE OF THE SIGNAL SYSTEM IN THE PRESENCE OF THE RESIDENT ENGINEER AND CITY OFFICIALS.

J) PEDESTRIAN SIGNALS
1) AN AUDIO UNIT SHALL BE MOUNTED ABOVE EACH PEDESTRIAN SIGNAL HEAD.
2) THE AUDIO UNITS SHALL REMAIN ACTIVE AND SHALL NOT BE DISCONNECTED FOR THIS INSTALLATION.
3) EACH PEDESTRIAN PUSH BUTTON UNIT SHALL BE PROVIDED WITH A 9" X 12" SIGN AS DETAILED ON STANDARD SHEET E-140. A PUSH BUTTON UNIT SHALL BE PROVIDED AT THE END OF EACH CROSSWALK.
4) THE ELECTRICAL WIRING FOR THE PEDESTRIAN SIGNALS AND PUSHBUTTON MOUNTED ON STRAIN POLE 2 (SP2), WHICH IS A WOODEN UTILITY POLE, SHALL BE IN 1 INCH DIAMETER OR LARGER, GALVANIZED STEEL CONDUIT. AN APPRORIATE WEATHER HEAD SHALL BE PROVIDED AND ARRANGEMENTS SHALL BE MADE WITH THE UTILITY COMPANY WHEN THE TIME COMES FOR THIS WORK TO BE DONE.

K) TRAFFIC CONTROL - TEMPORARY SIGNAL
1) THE EXISTING TRAFFIC SIGNAL, OR AN ACCEPTABLE TEMPORARY SIGNAL, SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION PERIOD UNTIL THE NEW TRAFFIC SYSTEM IS IN PLACE AND READY TO OPERATE, WITH THE EXCEPTION OF THE STRINGING OF THE NEW SPAN WIRE. THE OLD SPAN WIRE SHALL BE REMOVED FROM THE WOODEN STRAIN POLE (SP2) PRIOR TO THE PLACEMENT OF THE NEW SPAN WIRE. DURING THE SHORT PERIOD WHEN NO SIGNAL IS OPERATIONAL, THE INTERSECTION SHALL BE CONTROLLED BY UNIFORMED TRAFFIC CONTROL OFFICERS.
2) THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER FOR APPROVAL A TRAFFIC CONTROL PLAN WHICH DESCRIBES THE CONTRACTORS PROPOSAL TO ACCOMPLISH THE ABOVE REQUIREMENTS. THE CONTRACTOR MAY WISH TO CONSIDER THE FOLLOWING OPTIONS:
a) SCHEDULE THE WORK SUCH THAT THE EXISTING STEEL STRAIN POLE (STATION 12 + 07 RT) IS RETAINED UNTIL THE NEW STEEL STRAIN POLE IS IN PLACE AND THE CONCRETE CURED PROPERLY FOR LOADS TO BE APPLIED TO THAT POLE.
b) INSTALL A TEMPORARY WOODEN OR STEEL STRAIN POLE IN PROXIMITY TO THE EXISTING POLE, BUT OUTSIDE THE CONSTRUCTION AREA OF THE WALL.
c) MAKE ARRANGEMENTS WITH THE UTLITY COMPANY TO USE THE UTILITY POLE CURRENTLY AT STATION 11+ 98 RT AS A TEMPORARY STRAIN POLE. THIS POLE IS SCHEDULED FOR REMOVAL PRIOR TO THE START OF CONSTRUCTION.
3) SEE SHEET 141 FOR TEMPORARY LOOP REQUIREMENT.
4) THE COST OF THE ABOVE WORK, INCLUDING COMPLETE REMVOAL OF ANY TEMPORARY SIGNAL SYSTEM, IF APPLICABLE, SHALL BE CONSIDERED A PART OF THE NEW TRAFFIC SIGNAL BID PRICE.

L) CONTROLLER TRAINING COURSE
1) THE TRAFFIC SIGNAL CONTROLLER SUPPLIER WILL GIVE A TRAINING COURSE ON THE OPERATION AND MAINTENANCE OF THE CONTROLLER AND RELATED EQUIPMENT.
2) THE TRAINING COURSE SHALL CONSIST OF TWO 4-HOUR SESSIONS AT A TIME AND PLACE DESIGNATED BY THE CITY OF MONTPELIER AND THE EQUIPMENT SUPPLIER, PRIOR TO ACCEPTANCE OF THE PROJECT.

I. THE MANUFACTURER SHALL SUBMIT, FOR APPROVAL, SHOP DRAWINGS FOR TRAFFIC SIGNAL EQUIPMENT. THE SUBMITTAL SHALL CONTAIN A MINIMUM OF THE FOLLOWING INFORMATION:
A) TRAFFIC SIGNAL CONTROLLER
TYPE OF CONTROLLER, MANUFACTURER, MODEL, NUMBER OF PHASES AND FUNCTIONS. ASSURANCE OF CONFORMANCE TO THE LATEST NEMA STANDARDS. BENCH TESTING (MINIMUM OF 7 DAYS) WILL BE REQUIRED. COPIES OF THE TEST RESULTS SHALL BE SUBMITTED AS DISCUSSED IN THE STANDARD SPECS SECTION 752.06. THE TEST RESULTS SHALL CONTAIN THE BEGIN AND END TIME AND DATE, ALL CONTROLLER AND TIME-BASED COORDINATOR SETTINGS USED, A DIAGRAM OF THE INTERSECTION SHOWING CONTROLLER PHASING AND ITS RELATIONSHIP TO VEHICLE MOVEMENTS, EQUIPMENT SERIAL NUMBERS, SIGNATURE OF THE PERSON PERFORMING THE TEST AND SIGNATURE OF A WITNESS WHO SHALL BE EITHER A REGISTERED ELECTRICAL ENGINEER OR A LICENSED MASTER ELECTRICIAN.
B) TRAFFIC SIGNAL HEADS
SIZE, MANUFACTURER, MODEL, LAMP WATTAGE, OPTICS, WIRING, HOUSING (MATERIAL AND COLOR), VISORS, AND BACK PLATES, IF REQUIRED. THE SIGNAL HEADS SHALL MEET THE LATEST ITE STANDARDS.
C) TRAFFIC SIGNAL HEADS
SIZE, MANUFACTURER, ACCESSORIES, MATERIALS, AND FINISH.
D) AUXILIARY EQUIPMENT (FLASHERS), VEHICLE DETECTORS(S), CONFLICT MONITOR, CLOCKS(S), ETC.
MANUFACTURER, MODEL, FUNCTIONS, ASSURANCE OF CONFORMANCE TO THE LATEST NEMA STANDARDS, WHERE APPLICABLE.
E) STRAIN POLES, PEDESTAL POSTS AND CANTILEVERS.
1. DIMENSIONS - POLE/POST HEIGHT, SPAN WIRE ATTIACHMENT HEIGHT, POLE/POST DIAMETER (TOP AND BOTTOM), POLE GUAGE, HANDHOLE (SIZE AND LOCATION), BASE PLATE, BOLT CIRCLE, ANCHOR BOLT SIZE.
2. MATERIAL SPECIFICATIONS FOR EACH COMPONENT.

E) STRAIN POLES, PEDESTAL POSTS AND CANTILEVERS (CONT.)
3. ANCHOR BOLTS AND WASHERS SHALL BE AN AUSTENITIC GRADE OF STAINLESS STEEL CONFORMING TO THE CHEMISTRY OF ASTM A276 TYPE 304 WITH THE FOLLOWING PHYSICAL PROPERTIES:

a) TENSILE STRENGTH, minimum	80,000 psi
b) YIELD STRENGTH, minimum	55,000 psi
c) ELONGATION IN 2 INCHES, minimum	25%
d) ROCKWELL B HARDNESS, minimum	86
OR CHARPY V-NOTCH (AASHTO T243 USING H FREQUENCY OF TESTING), minimum	15 ft.-lbs. @ 40° F

NUTS FOR THE ANCHOR BOLTS SHALL BE THE HEAVY HEX TYPE CONFORMING TO THE REQUIREMENTS OF ASTM A-194 GRADE 8.
4. WELDING INFORMATION FOR ALL WELDED CONNECTIONS (SEE SUBSECTION 506.10). THE FOLLOWING INFORMATION WILL BE REQUIRED FOR ALL WELDED JOINTS (ALUMINUM OR STEEL):

a) PROCEDURE SPECIFICATIONS PER AWS D1.1 APPENDIX E FORM E1
b) PROCESS AND PROCEDURE QUALIFICATION TESTS PER AWS D1. APPENDIX E FORM E2.
c) CERTIFICATE OF CONFORMANCE TO SPECIFICATIONS FOR FILLER MATERIAL. WHEN USING ANY GMAW OR FCAW WELDING PROCESS THE FOLLOWING WILL ALSO BE REQUIRED:
A MANUFACTURER'S CERTIFICATE THAT THE GAS OR GAS MIXTURE IS SUITABLE FOR THE INTENDED APPLICATION AND MEETS THE DEW POINT REQUIREMENTS.
REFERENCE - AASHTO MODIFICAITON OF AWS D1.1 SEC. 4.18.
5. POLE/BASE PLATE STAMPING DETAIL.
6. SPECIAL FEATURES AS INDICATED ON THE PLANS SUCH AS FINISH OR COLOR.

II.
THE MANUFACTURER SHALL SUBMIT, FOR APPROVAL, SHOP DRAWING FOR THE STREET LIGHT LUMINAIRE. THE SUBMITTAL SHALL CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:
A) LUMINAIRES
1) FIXTURES
a) VOLTAGE RATING
b) WATTAGE AND LAMP TYPE
c) BALLAST TYPE
d) PHOTO CELL
e) ANY OTHER FEATURES SPECIFIED ON THE PLANS SUCH AS FINISH, SPECIAL WIRE ACCESS, ETC..
2) PHOTOMETRIC DATA
a) IES DISTRIBUTION TYPE
b) UTILIZATION CURVE
c) ISO-FOOTCANDLE CURVES
d) MOUNTING HEIGHT FACTOR
e) MAINTENANCE FACTOR
B) WIRING
CONDUCTOR MATERIAL, INSULATION TYPE, VOLTAGE RATING, AND TEMPERATURE RATING, SHALL CONFORM TO THE NATIONAL ELECTRIC CODE USE AND SIZE AND BE COLOR CODED.

III. IN I AND II ABOVE, THE INFORMATION SUPPLIED SHALL EITHER MATCH OR BE EQUIVALENT TO THE DETAILS SPECIFIED ON THE PLANS OR ON THE STD. SHEETS. IF EQUIVALENT, THE CONTRACTOR MAY BE ASKED TO SUPPLY PROOF OF EQUIVALENCY. COPIES OF CATALOGUE SHEETS ARE ACCEPTABLE IF ALL THE APPROPRIATE INFORMATION IS INCLUDED.

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DATE	REVISIONS	BY
	ORIGINAL PREPARED NOV. 1986	
2/87	ADDED PAVING POLICY	LKA
6/88	MAJOR REVISIONS	LKA
8/89	MODIFIED FOR MONTPELIER PROJECT	DSP

PREPARED BY DSP DATE 08/89
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR DAR DATE 08/89
PROJ. MONTPELIER M6400(7)

TRAFFIC SHEET NO. _____ OF _____
SHEET 140 OF 355 SHEETS

LIST OF MAJOR EQUIPMENT

SIGNAL EQUIPMENT (678.15)		QUANTITY
STRAIN/CANTILEVER POLE		1 EA
PEDESTAL POSTS		3 EA
12" POLYCARBONATE SIGNAL HEADS W/TUNNEL VISORS, DISCONNECT HANGERS & MOUNTING HARDWARE		
	1-WAY -3 SECTION	1 EA
	2-WAY -3 SECTION	1 EA
	3-WAY -3 SECTION	1 EA
	1-WAY -5 SECTION	1 EA
12" OPTICALLY PROGRAMMABLE SIGNAL HEADS, W/FIXED MOUNTED HANGERS WITH TERMINAL BLOCKS		
	1-WAY -3 SECTION	2 EA
ONE SECTION FIBEROPTIC "DON'T WALK/WALK" PEDESTRIAN HEADS WITH MOUNTING HARDWARE & VISORS		
	POST TOP MOUNT	3 EA
	SIDE MOUNT (WOOD POLE)	1 EA
PEDESTRIAN AUDIO SIGNAL		4 EA
PEDESTRIAN PUSH BUTTON UNIT W/SIGN		4 EA
30" X 30" FIBEROPTIC "NO TURN ON RED" SIGN		1 EA
ECONOLITE ASC-8000 CONTROLLER W/GROUND MOUNTED CABINET		1 EA
SLEEVE FOR UTLITIES (625.10) MODIFIED 10" PVC		50 LF
ELECTRICAL CONDUIT (678.21)		
	1" GALVANIZED STEEL	60 LF
	1 1/2" PVC	30 LF
	2" PVC	770 LF
VEHICLE LOOP DETECTOR (678.22)		710 LF
VEHICLE LOOP DETECTOR (678.22) MODIFIED		90 LF
PULL BOX (678.25)		1 EA
PULL BOX (678.25) MODIFIED		2 EA
JUNCTION BOX (678.26)		1 EA

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED AS GENERAL INFORMATION ONLY, THEY ARE FOR PERMANENT INSTALLATIONS ONLY. ANY ITEM NOT LISTED BUT REQUIRED AS PART OF THE SIGNAL SYSTEM DESIGN SHALL BE INCLUDED AS PART OF 678.15. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND TYPES OF EQUIPMENT REQUIRED TO PROVIDE FOR THE SIGNAL SYSTEM DESIGN AS SHOWN. THE ABOVE DOES NOT INCLUDE MATERIALS WHICH MAY BE REQUIRED FOR THE TEMPORARY TRAFFIC SIGNAL, REFER TO SHEET 140 NOTE "K".

TEMPORARY VEHICLE LOOP DETECTOR

WHEN THE EXISTING VEHICLE LOOP DETECTOR ON THE BERLIN STREET NORTHBOUND APPROACH IS REMOVED OR DISTURBED DURING CONSTRUCTION IT SHALL BE REPLACED WITH A TEMPORARY VEHICLE LOOP DETECTOR WITHIN 48 HOURS. UNTIL IT IS REPLACED, THE TRAFFIC SIGNAL SHALL BE SET TO MAXIMUM RECALL FOR THE BERLIN STREET NORTHBOUND PHASE.

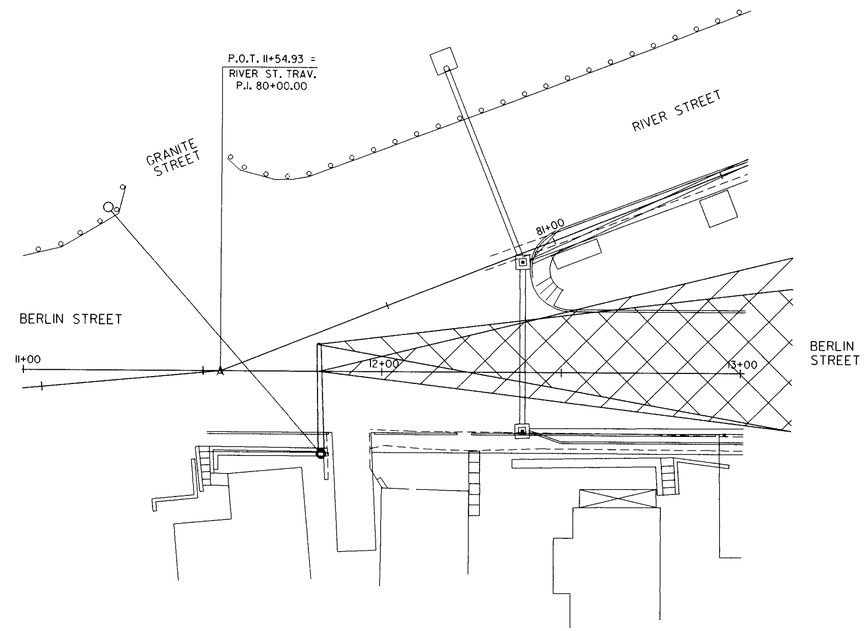
IF THE TEMPORARY VEHICLE DETECTOR LOOP IS PLACED IN A PAVED SURFACE IT SHALL BE SAW CUT INTO THAT SURFACE IN THE SAME MANNER AS FOR A PERMANENT INSTALLATION. PAYMENT SHALL BE UNDER THE REGULAR VEHICLE LOOP DETECTOR ITEM.

IF THE TEMPORARY VEHICLE LOOP IS PLACED IN GRAVEL OR DIRT SURFACE IT SHALL BE PLACED IN 1"- PVC CONDUIT AND BURIED APPROXIMATELY 4 INCHES BELOW THE SURFACE. PAYMENT SHALL BE UNDER VEHICLE LOOP DETECTOR ITEM - MODIFIED. THE ITEM IS MODIFIED TO INCLUDE THE COST OF THE CONDUIT, INSTALLATION AND ALL INCIDENTALS.

THE TEMPORARY LOOP DETECTOR SHALL BE A 6' X 30' RECTANGULAR LOOP AND SHALL BE PLACED AT THE APPROXIMATE LOCATION AS THE EXISTING LOOP. A TEMPORARY "STOP HERE ON RED SIGN" SHALL BE PLACED ADJACENT TO THE TEMPORARY LOOP, AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THE SIGN AND POST SHALL BE CONSIDERED A PART OF THE TRAFFIC SIGNAL ITEM.

THE COST OF THE TEMPORARY LOOP LEAD - IN SHALL BE CONSIDERED SUBSIDIARY TO THE TRAFFIC SIGNAL ITEM. THE LOOP SHALL BE CONSIDERED TO END AND THE LEAD - IN BEGIN AT THE EXISTING CURB LINE OR EDGE OF SHOULDER AS IS APPROPRIATE. THE LEAD - IN FOR THE TEMPORARY LOOP DOES NOT NEED TO BE PLACED IN CONDUIT.

OPTICALLY PROGRAMMED SIGNALS

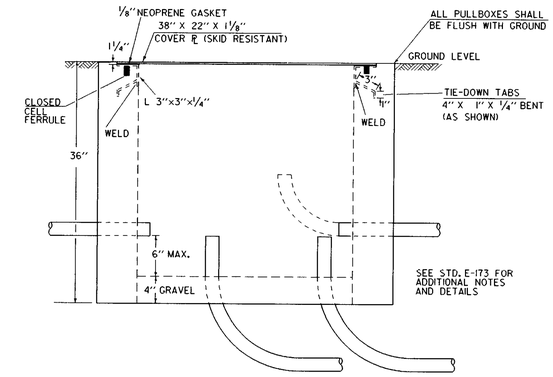


NOTES :

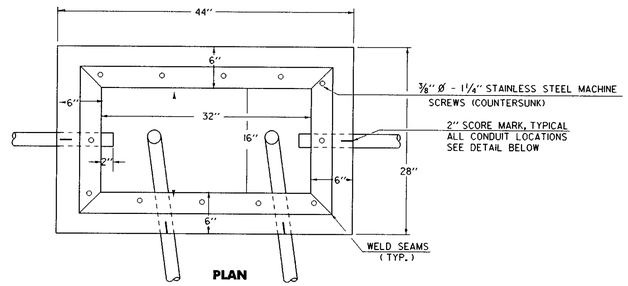
1.) THE OPTICALLY PROGRAMMED SIGNAL HEADS SHALL BE HORIZONTALLY AIMED AS SHOWN ABOVE AND SHALL BE AIMED VERTICALLY SO AS TO BE SEEN AT LEAST 20 FEET IN FRONT OF THE STOP BAR AND UP BERLIN STREET AS FAR AS POSSIBLE.

2.) TWO SPARE BULBS SHALL BE SUPPLIED WITH EACH PROGRAMMABLE SIGNAL HEAD AND TURNED OVER TO THE CITY PRIOR TO ACCEPTANCE OF THE PROJECT.

DOUBLE PULLBOX DETAIL

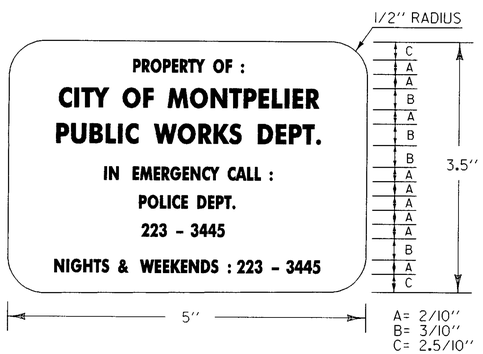


ELEVATION



PLAN

CONTROLLER IDENTIFICATION PLAQUE



LEGEND: - BLACK (NON-REFL.) - STAMPED PRIOR TO PAINTING
BACKGROUND: NATURAL ALUMINUM OR BRASS SURFACE

NOTES:

1.) THE PLAQUE SHALL BE MOUNTED ON ALL TRAFFIC SIGNAL CONTROLLER CABINETS. IT SHALL BE FASTENED TO THE CONTROLLER CABINET IN SUCH A MANNER AS TO BE NOT EASILY REMOVED, SUCH AS WELDED, RIVETED OR BOLTED WITH VANDAL PROOF BOLTS.

2.) THE LETTERS SHALL BE PUNCHED, STAMPED, OR ENGRAVED. SUCH STAMPING SHALL PENETRATE AT LEAST 1/4 THE BASE MATERIAL THICKNESS.

3.) THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.

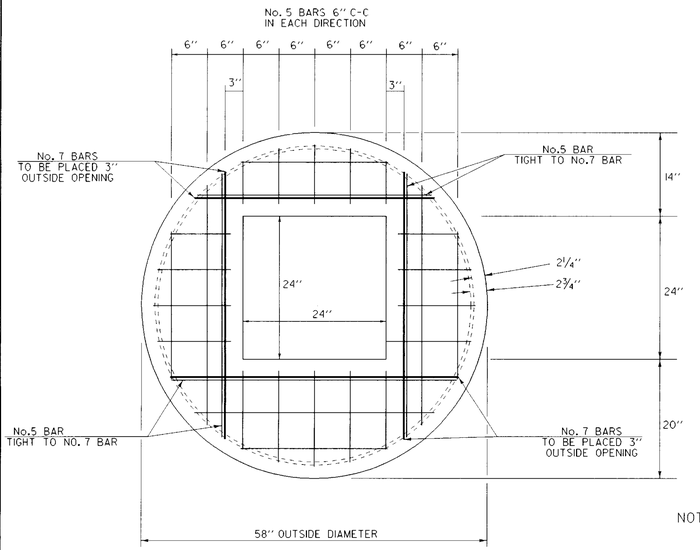
ARCHIVED ON CADD

TDMONTP2.DGN

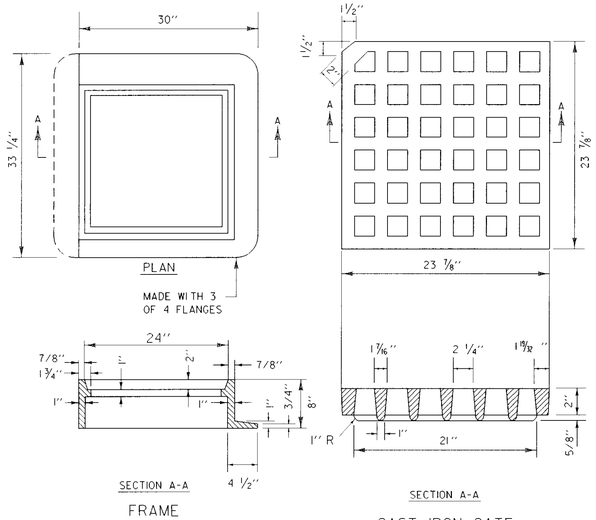
ORIGINAL PREPARED JUNE 1988		
DATE	REVISIONS	BY
8/89	MODIFIED FOR MONT. PROJECT	DSP

TRAFFIC SIGNAL MISC. DETAILS

PREPARED BY DSP DATE 08/89
CHECKED BY ____ DATE ____
DESIGN SUPERVISOR DAR DATE ____
PROJ. MONTPELIER M6400 (7)
TRAFFIC SHEET NO. ____ OF ____
SHEET 141 OF 355 SHEETS



ADAPTER REINFORCING DETAILS



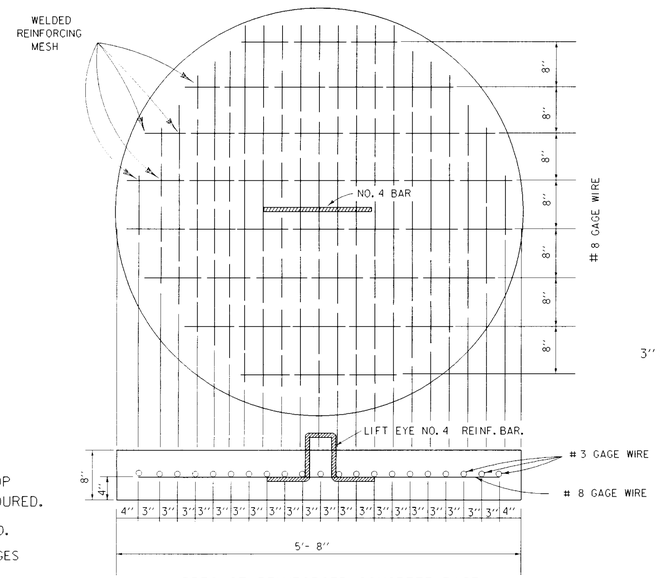
FRAME
FOR
TYPE D OR TYPE E
GRATE

CAST IRON GATE
TYPE D

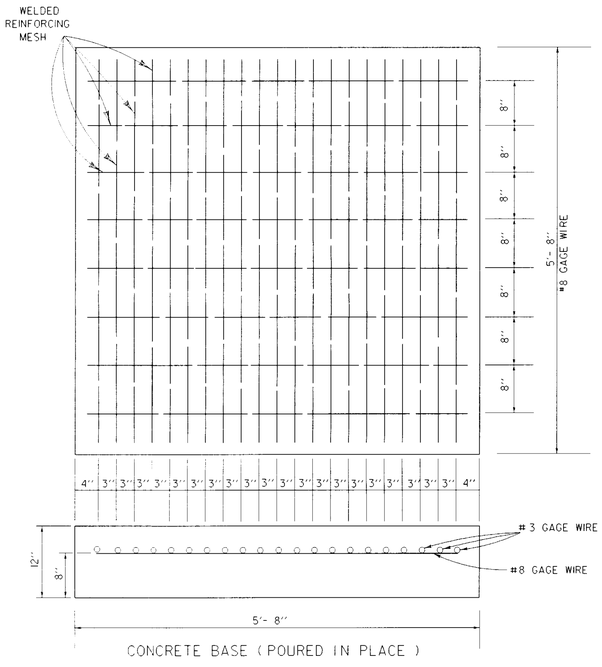
NOTE: THIS FRAME TO BE PLACED IN DROP INLET TOP BEFORE CONCRETE IS POURED.

4 FLANGES UNLESS OTHERWISE INDICATED.

FRAMES TO BE FURNISHED WITH 3 FLANGES WHEN USED IN CONJUNCTION WITH CURB OR AS DIRECTED BY THE ENGINEER.

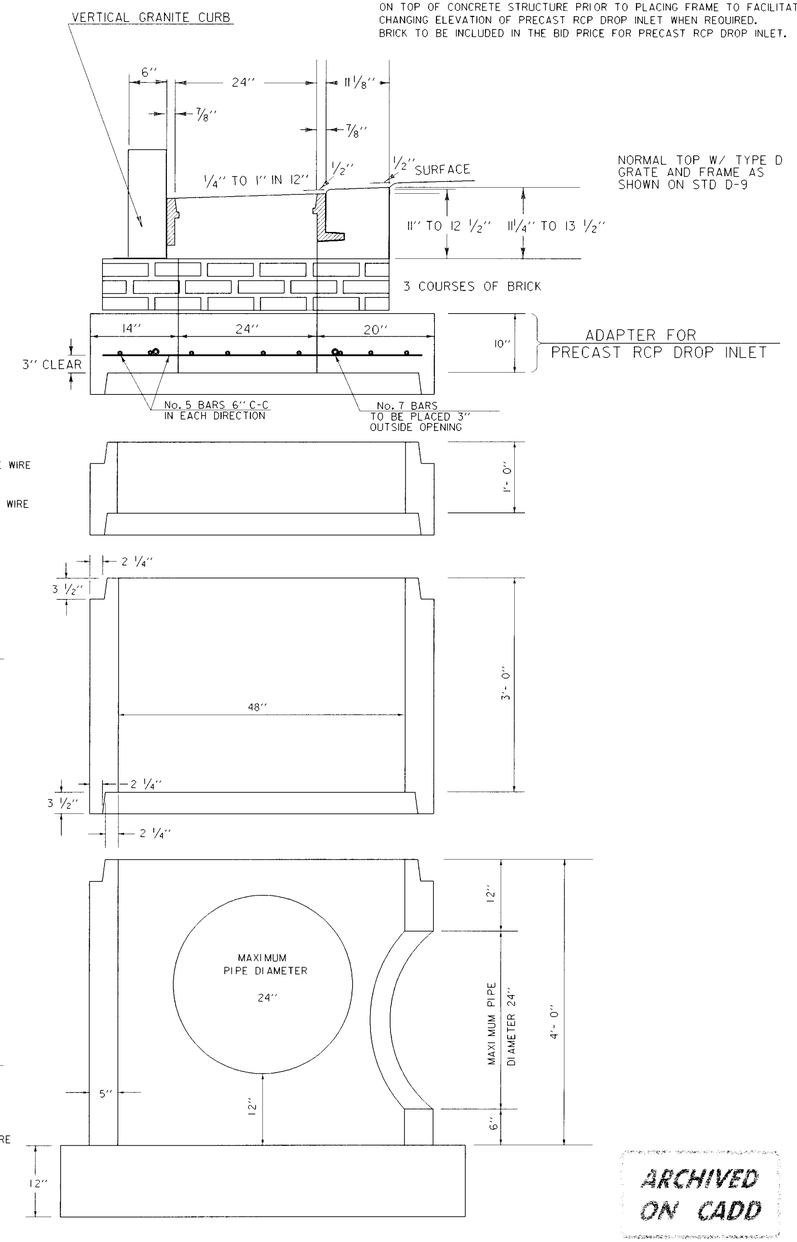


PRECAST REINFORCED CONCRETE BASE



CONCRETE BASE (POURED IN PLACE)

THREE COURSES OF BUILDING BRICK, CONFORMING TO SECTION 705.01(b), OF THE VERMONT STANDARD SPECIFICATION FOR CONSTRUCTION, TO BE PLACED ON TOP OF CONCRETE STRUCTURE PRIOR TO PLACING FRAME TO FACILITATE CHANGING ELEVATION OF PRECAST RCP DROP INLET WHEN REQUIRED. BRICK TO BE INCLUDED IN THE BID PRICE FOR PRECAST RCP DROP INLET.



NOTES: 1. ALL DROP INLET GRATES ARE TO BE BICYCLE SAFE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

2. APPROXIMATELY HALF OF THE DROP INLETS ARE PAID WITH THE ITEMS CONCRETE AND STEEL AND THE OTHER HALF ARE TO BE PAID AS PRE-CAST REINFORCED CONCRETE PIPE DROP INLETS. THE ACTUAL TYPE OF DROP INLET INSTALLED IS TO BE AT THE DISCRETION OF THE ENGINEER ON A SITE BY SITE BASIS.

PRECAST RCP DROP INLET DETAIL

ARCHIVED
ON CADD

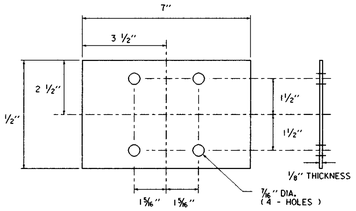
REVISIONS	
NOV. 8, 1988	SHEET ADDED

SURVEYED BY _____ DATE _____
DRAWN BY BEYOR DATE 11-88
SQUAD LEADER BOHL
DESIGN FILE NO. /usr/const/76b033/cb033a
PRF FILE 76B033DI.PRF DATE PLOTTED 21-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M6400(7)
SHEET 144 OF 335 SHEETS

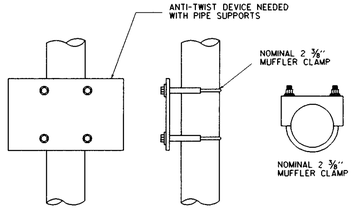
MAILBOX DETAIL

NOTES

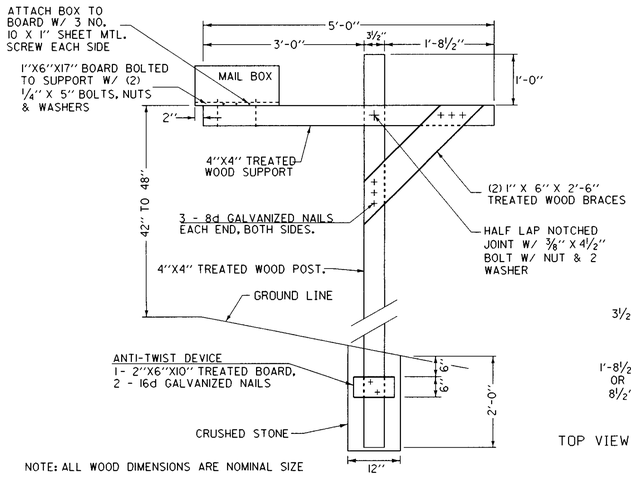
1. ONLY LIGHTWEIGHT MAILBOXES MADE OF LIGHT SHEET METAL OR PLASTIC SHALL BE USED. MAILBOXES SHALL MEET REQUIREMENTS AND APPROVAL OF THE U.S. POSTAL SERVICE.
2. AN ALTERNATE MAILBOX SUPPORT STRUCTURE DESIGN AND CONSTRUCTION MAY BE USED AS LONG AS PROVEN CRASHWORTHY AND MEETS GUIDELINES AS SET OUT IN AASHTO'S "GUIDE FOR ERECTING MAILBOXES ON HIGHWAYS". SUPPORT STRUCTURE SHALL ALSO MEET REQUIREMENTS OF THE U.S. POSTAL SERVICE.
3. MAILBOX TURNOUT SHALL MEET B-17 STANDARD AS SET OUT IN "STATE OF VERMONT AGENCY OF TRANSPORTATION DESIGN STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION".
4. IF THE STANDARD TURNOUT OFFSET CANNOT BE ATTAINED DUE TO RIGHT-OF-WAY CONSTRAINTS OR OTHER REASONS THE TURNOUT SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER.



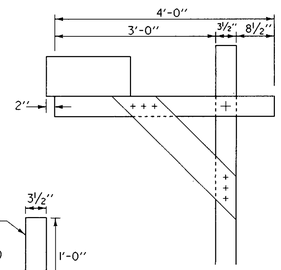
ANTI-TWIST DEVICE DETAIL FOR METAL PIPE

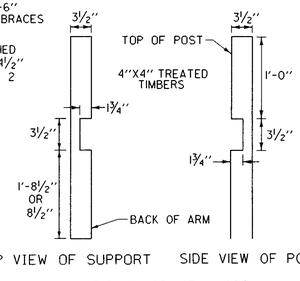


ANTI-TWIST DEVICE ASSEMBLY FOR METAL PIPES
(USED FOR SINGLE AND MULTIPLE INSTALLATIONS)



NOTE: ALL WOOD DIMENSIONS ARE NOMINAL SIZE

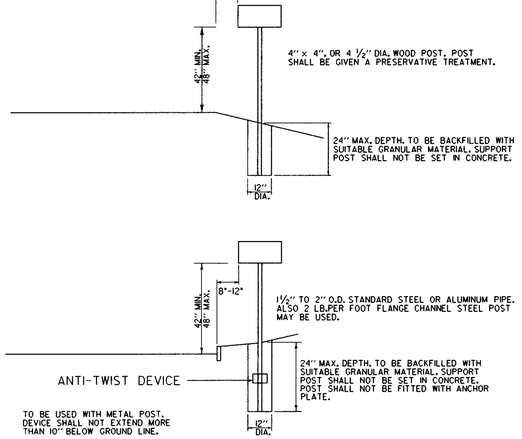


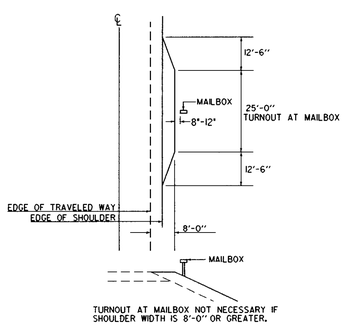


TOP VIEW OF SUPPORT SIDE VIEW OF POST

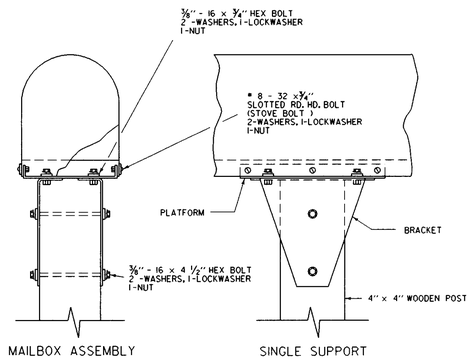
DIMENSIONS ARE ACTUAL SIZE

CANTILEVER TYPE MAILBOX SINGLE SUPPORT

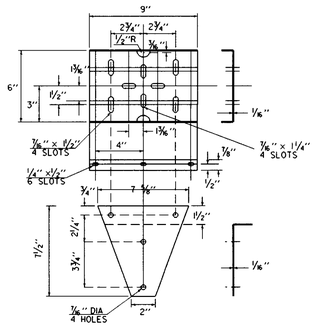




TURNOUT AT MAILBOX NOT NECESSARY IF SHOULDER WIDTH IS 8'-0" OR GREATER.

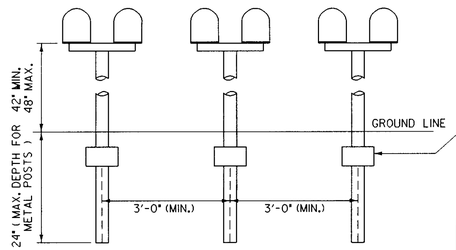


MAILBOX ASSEMBLY SINGLE SUPPORT



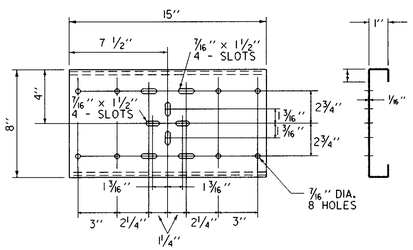
PLATFORM AND BRACKET DETAIL FOR METAL OR WOOD POSTS
(USED FOR SINGLE AND MULTIPLE BOXES)

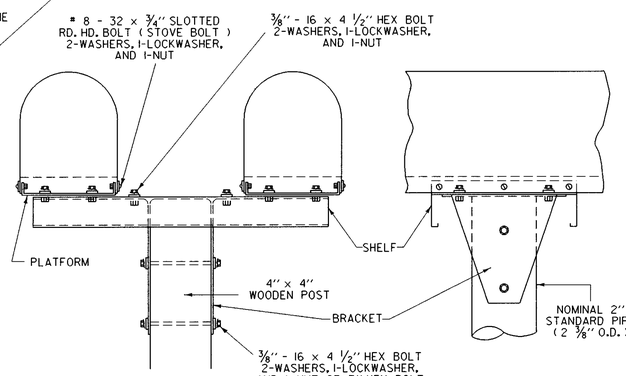
SINGLE MAILBOX SUPPORT



SPACING FOR MULTIPLE POST INSTALLATION

SHELF FOR TWO BOXES



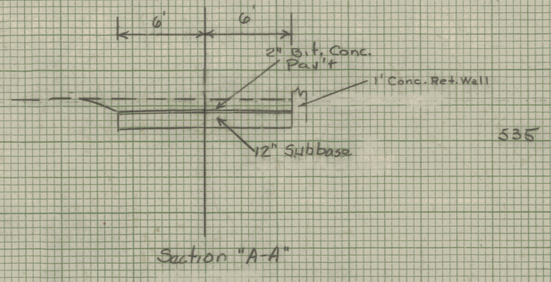


MULTIPLE MAILBOX SUPPORT

ARCHIVED ON CADD

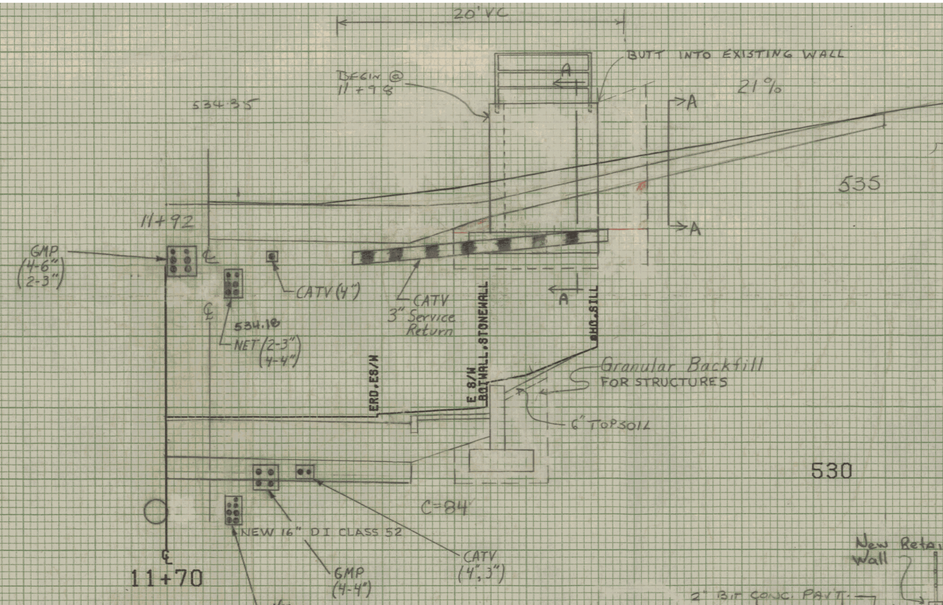
DATUM
VERTICAL N/A
HORIZONTAL N/A

SURVEYED BY N/A DATE N/A
DRAWN BY const DATE 9-90
SQUAD LEADER SHERIDAN
DESIGN FILE NO. /usr/const/76b033/cb033a
PRF FILE 76B033MB.PRF DATE PLOTTED 27-FEB-1996
PROJ. NAME MONTPELIER
PROJ. NO. MEGC M 6400(7)
SHEET 145 OF 335 SHEETS



Section "A-A"

535



530

11+54.93
END APPROACH CONSTUCTION
BEGIN PROJECT
MEGC-M 6400(7)

11+97 ~ 12+80 RT SODDING

11+98 RT BEGIN CONCRETE RETAINING WALL. EXTEND UP DRIVE AND BUTT INTO EXISTING WALL.

11+97 RT. BEGIN VERTICAL GRANITE CURB.

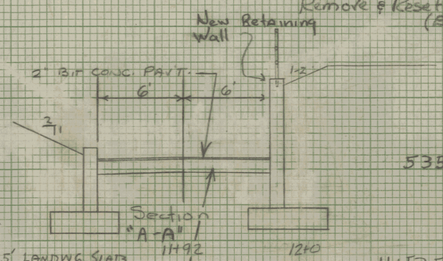
11+92 Rt
Construct Drive
(12' Wide, Paved)

11+85 Rt
End Retaining Wall. CONTINUE UP RT. SIDE OF DRIVE 6'-6" FROM FRONT FACE. REMOVE & RESET EXISTING GRANITE CURB.

11+81 RT- END VERTICAL GRANITE CURB.

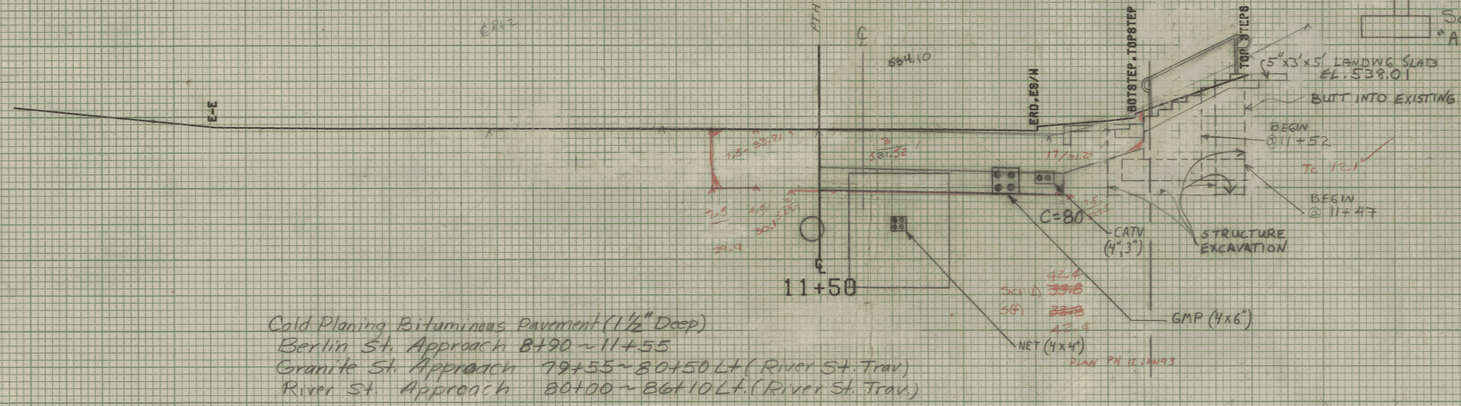
11+82.75 - 11+86 RT. INSTALL TRAFFIC SIGNAL BASE @ CORNER OF RETAINING WALL.

11+85 Rt
Remove & Reset Curb
(Edge of Drive)



535

11+52.50 - 11+54.50 INSTALL PEDESTRIAN SIGNAL BASE INFRONT OF NEW WALL.



530

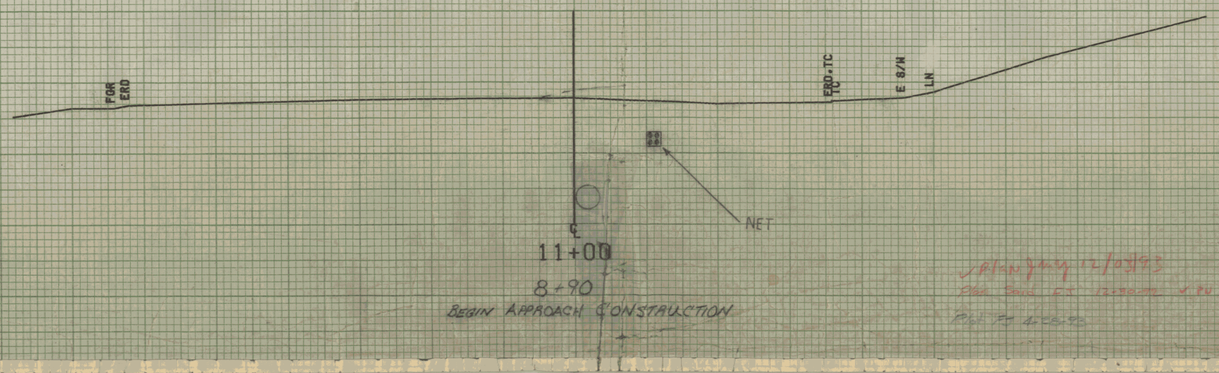
11+53 Rt.
Begin Retaining Wall w/metal handrail
(Extend Back 5' along Steps.)
11+51 Rt
Begin Vertical Granite Curb

11+50 RT
Construct 4' Concrete Stairway #1
W/metal handrails
Construct Sidewalk Ramp, Type 6

11+47 Rt
Construct RETAINING WALL PARALLEL TO STEPS
Extend back 7.0', Butt into existing wall
11+43 ~ 11+85 RT
Sodding

11+00 Rt
Begin Portland Cement
Concrete Sidewalk (5' Wide)

Cold Planing Bituminous Pavement (1½" Deep)
Berlin St. Approach 8+90 ~ 11+55
Granite St. Approach 79+55 ~ 80+50 Lt. (River St. Trav.)
River St. Approach 80+00 ~ 86+10 Lt. (River St. Trav.)

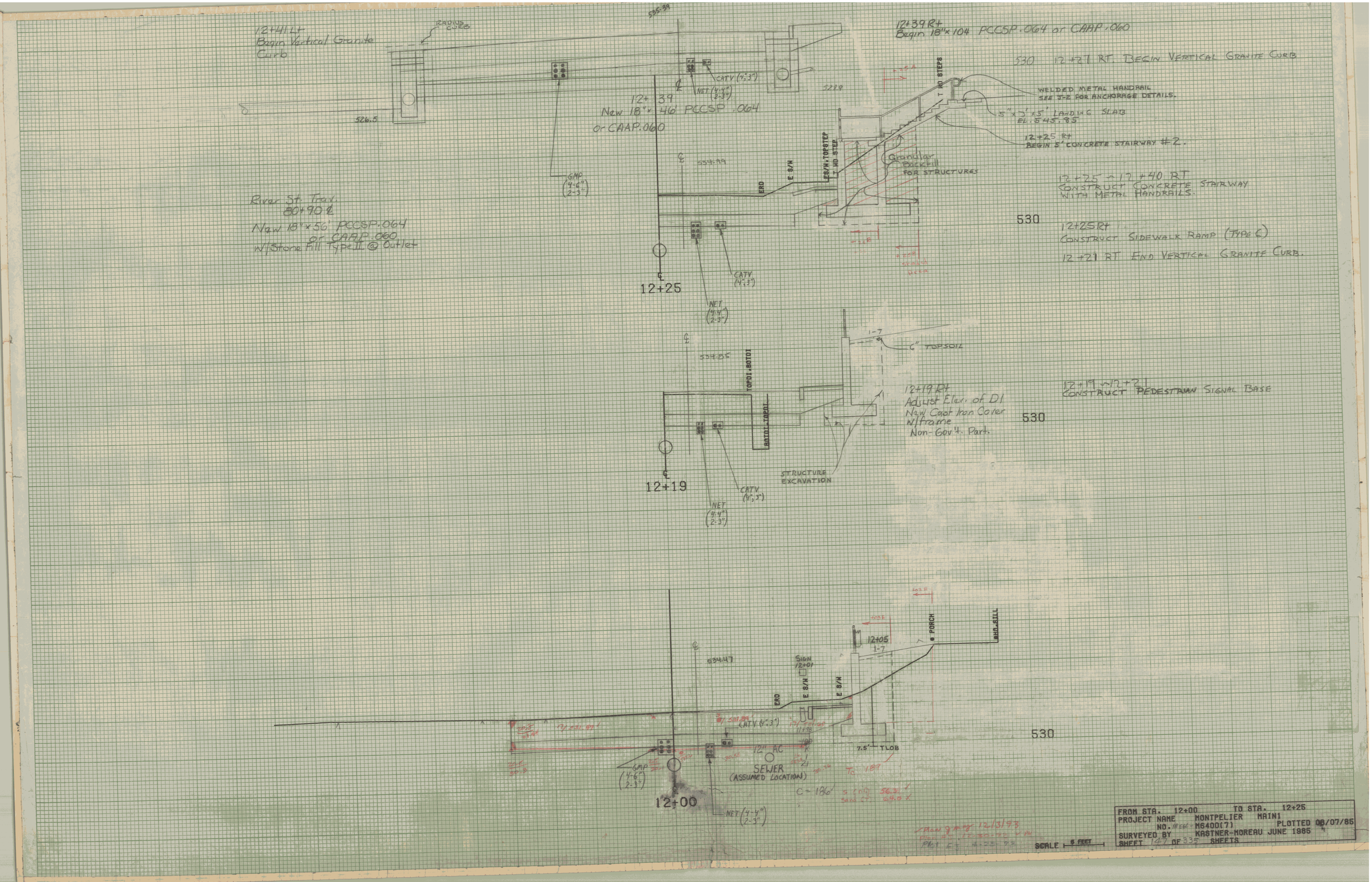


530

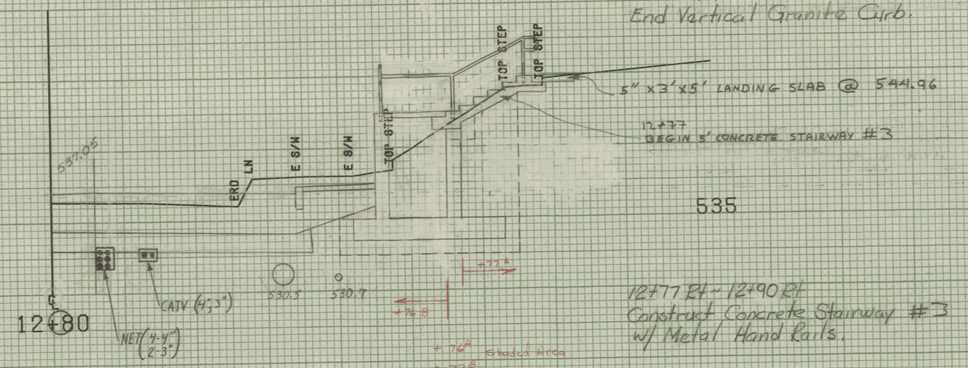
8+90
BEGIN APPROACH CONSTRUCTION

FROM STA. 11+00	TO STA. 11+70
PROJECT NAME MONTPELIER	MAIN1
NO. M-MEGC-M6400(7)	PLOTTED 08/07/86
SURVEYED BY KAGTNER-MOREAU	JUNE 1985
SHEET 140 OF 335 SHEETS	

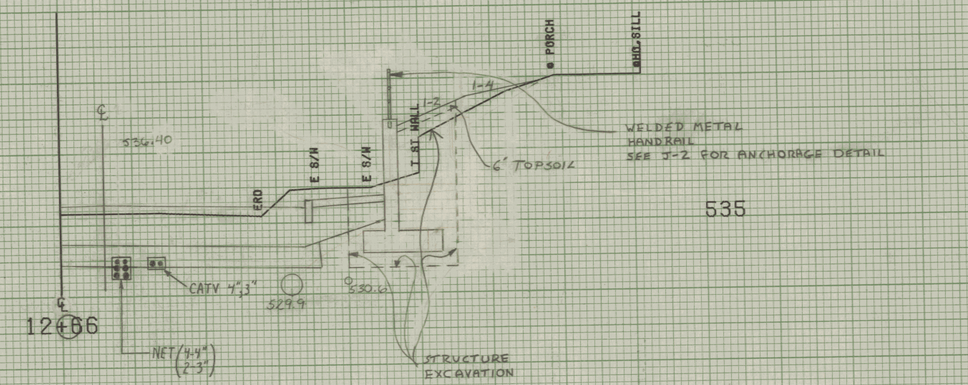
SCALE 5 FEET

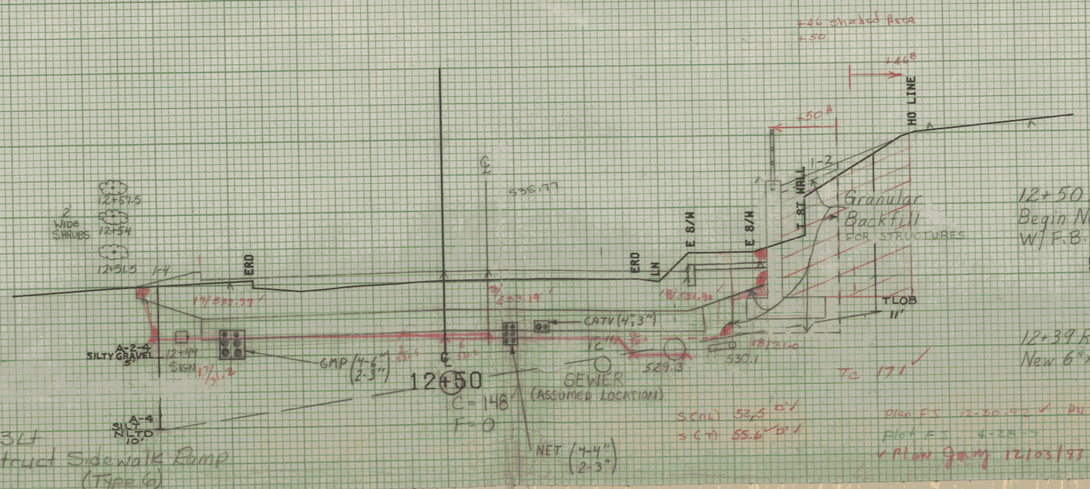

12+41 Lt
Begin Vertical Granite Curb
RADIUS CURB
535.39
526.5
CATV (4",3")
NET (4-4" 2-3")
12+39
New 18"x 46' PCCSP .064
or CAAP.060
GMP (4-6" 2-3")
12+39 Rt
Begin 18"x 104 PCCSP.064 or CAAP.060
530 12+27 RT. BEGIN VERTICAL GRANITE CURB
WELDED METAL HANDRAIL
SEE J-2 FOR ANCHORAGE DETAILS.
5"x 3'x 5' LANDING SLAB
EL. 545.85
12+25 Rt
BEGIN 5' CONCRETE STAIRWAY #2.
Granular Backfill FOR STRUCTURES
12+25 ~ 12+40 RT
CONSTRUCT CONCRETE STAIRWAY WITH METAL HANDRAILS.
River St. Trav.
80+90 ℄
New 18"x 56' PCCSP.064
or CAAP.060
W/Stone Fill Type II @ Outlet
534.99
ERD
E S/N
ES/N.TOPSTEP
T HD STEP
530
12+25 Rt
CONSTRUCT SIDEWALK RAMP (TYPE 6)
12+21 RT END VERTICAL GRANITE CURB.
12+25
CATV (4",3")
NET (4-4" 2-3")
534.85
TOPDI.BOTDI
BOTDI.TOPDI
6" TOPSOIL
12+19 Rt
Adjust Elev. of DI
New Cast Iron Cover
W/frame
Non-Gov't. Part.
12+19 ~ 12+21
CONSTRUCT PEDESTRIAN SIGNAL BASE
530
STRUCTURE EXCAVATION
12+19
CATV (4",3")
NET (4-4" 2-3")
534.47
SIGN 12+01
12+05
1-7
PORCH
HD.SILL
ERD
E S/N
E S/N
CATV (4",3")
12" AC
SEWER
(ASSUMED LOCATION)
7.5' TLOB
530
GMP (4-6" 2-3")
12+00
NET (4-4" 2-3")
C = 186'
SCALE 5 FEET
FROM STA. 12+00 TO STA. 12+25
PROJECT NAME MONTPELIER MAIN1
NO. M6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 147 OF 335 SHEETS

12+94 Rt
End Retaining Wall w/ metal hand rail
EXTEND UP DRIVE 20 Ft.
12+89 Rt
End Vertical Granite Curb.



12+77 Rt ~ 12+90 Rt
Construct Concrete Stairway #3
w/ Metal Hand Rails.





12+50 Rt
Begin New 6"x 445' Underdrain
W/ F.B. @ 11+95 Rt.
535

12+39 Rt ~ 12+50 Rt
New 6"x 10' Underdrain Carrier Pipe

12+43 Lt
Construct Sidewalk Ramp
(Type G)

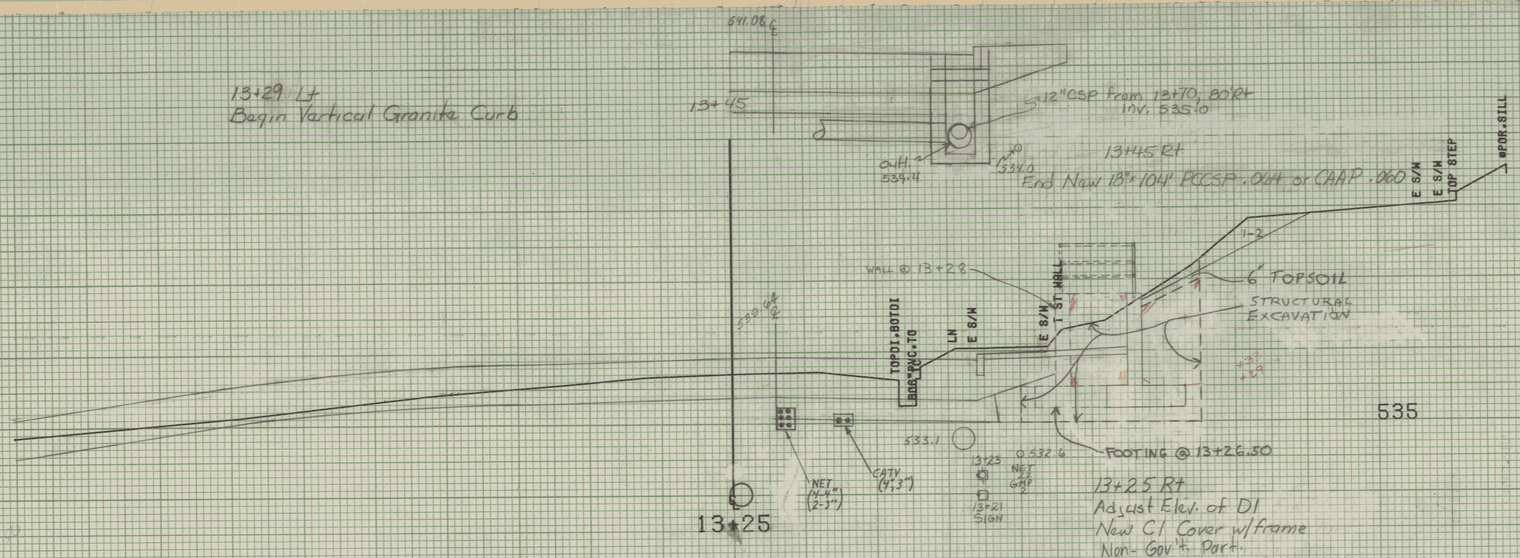
Scan 52.5 ✓
Scan 55.6 ✓
Plan F.S. 12+50 ✓ DU
Plan F.S. 11+95 ✓
Plan Proj 12/03/97

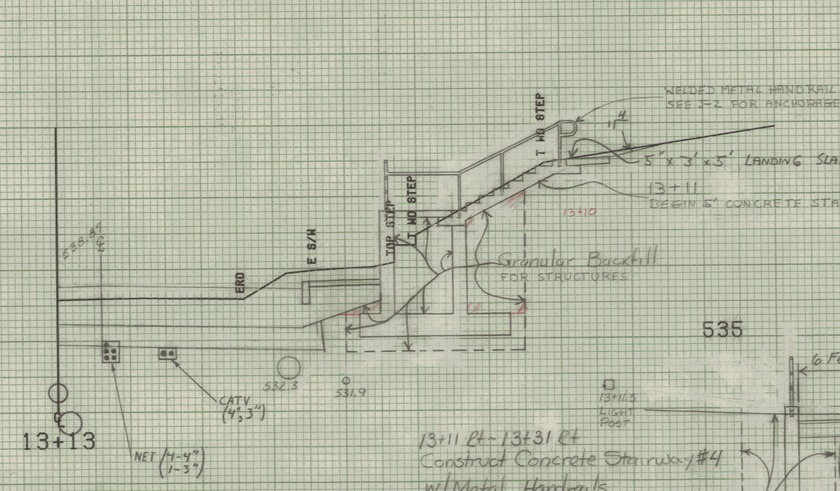
FROM STA. 12+50	TO STA. 12+80
PROJECT NAME MONTPELIER	MAIN1
NO. M EEC- M6400(7)	PLOTTED 08/07/86
SURVEYED BY KASTNER-MOREAU	JUNE 1985
SHEET 148 OF 335 SHEETS	

SCALE 5 FEET

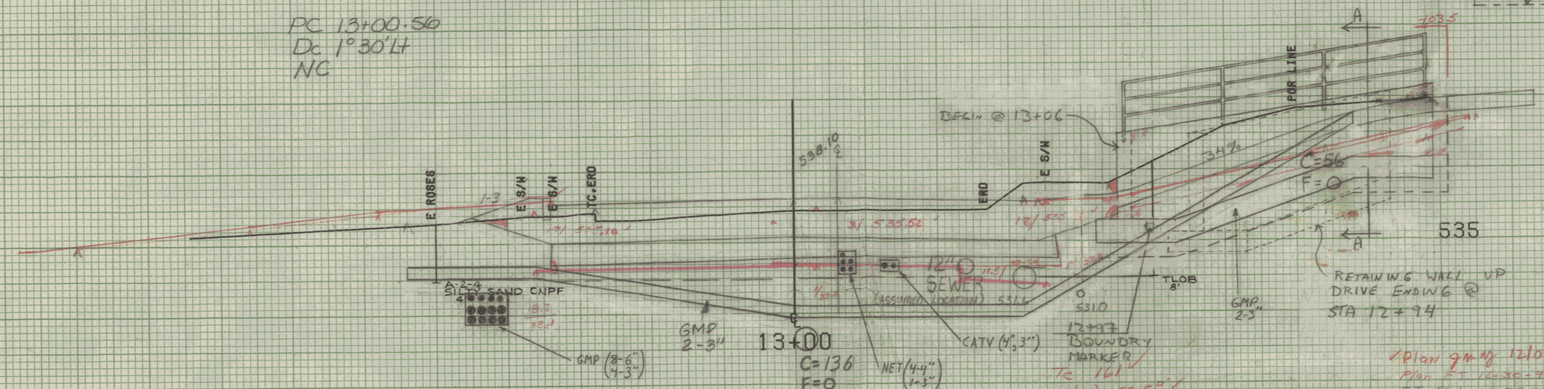
13+29 Lt
Begin Vertical Granite Curb

13+23 Lt
End Vertical Granite Curb





PC 13+00.56
Dc 1°30' Lt
NC

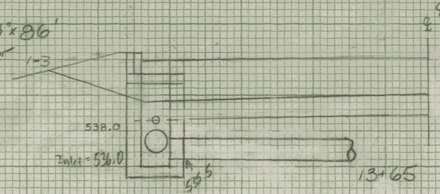


Plan garage 12/04/73
Plan garage 11/13/73

SCALE 5 FEET

FROM STA. 13+00	TO STA. 13+25
PROJECT NAME MONTPELIER	MAIN1
NO. M6400(7)	PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU	JUNE 1985
SHEET 149 OF 335 SHEETS	

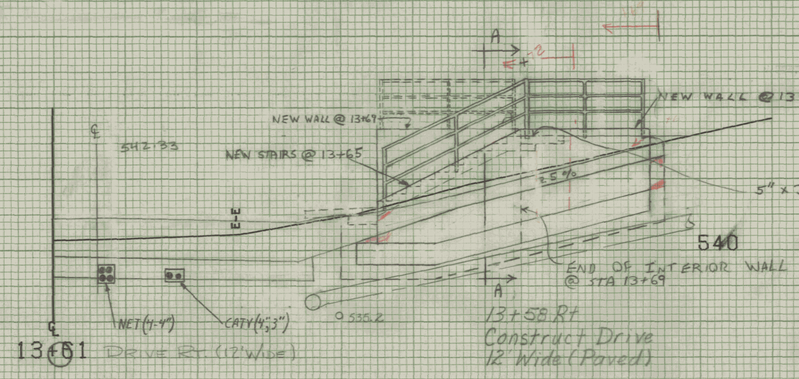
13+65 Lt
Begin New 18"x86'
RCCSP.064 or
CAAP.060



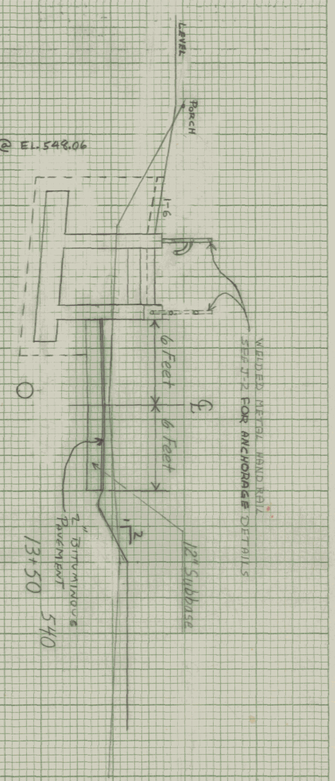
13+65 Lt
Begin New 6"x50' Underdrain
w/F.B @ 14+15 Lt.

13+64 Rt ~ 13+85 Rt SODDING

13+64 To 13+70 RT
CONSTRUCT CONCRETE STAIRWAY #5
W/ METAL HANDRAIL.
EXTEND WALL @ 13+64 19' UP DRIVE

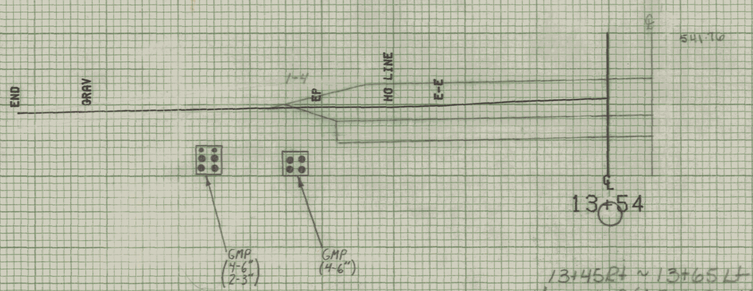


13+58 Rt
Construct Drive
12' Wide (Paved)



13+45 Rt ~ 13+70 Rt
New 12"x74' CSP.064 or CAAP.060
w/ 2 Elbows @ 25° & 35°
Precast Pipe DI w/ Concrete Cover
Exact location of DI to be determined by the Engineer.

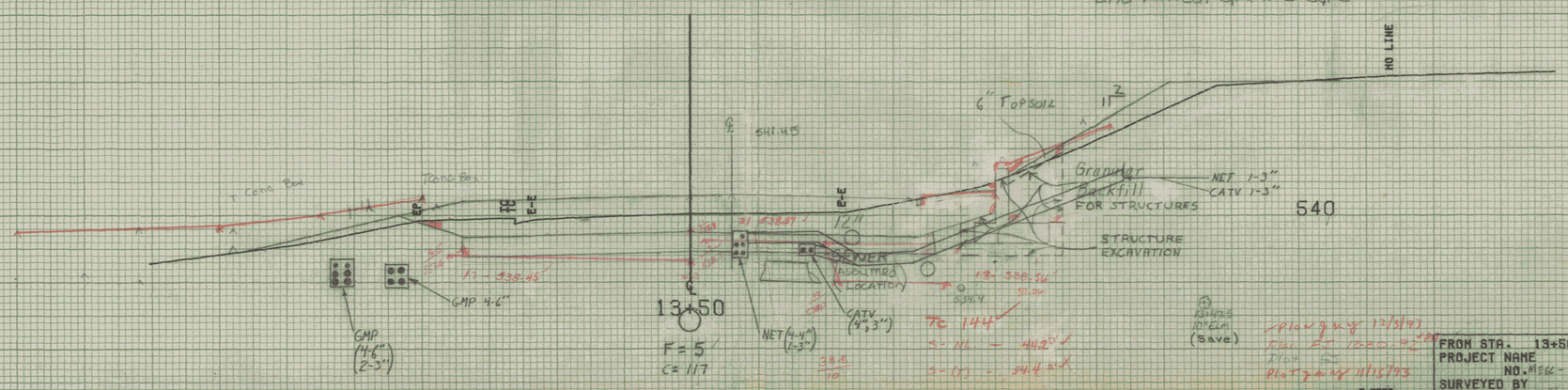
540



13+45 Rt ~ 13+65 Lt
New 18"x 36' RCCSP.064 or
or CAAP.060

13+52 Rt
End Retaining Wall w/metal handrail

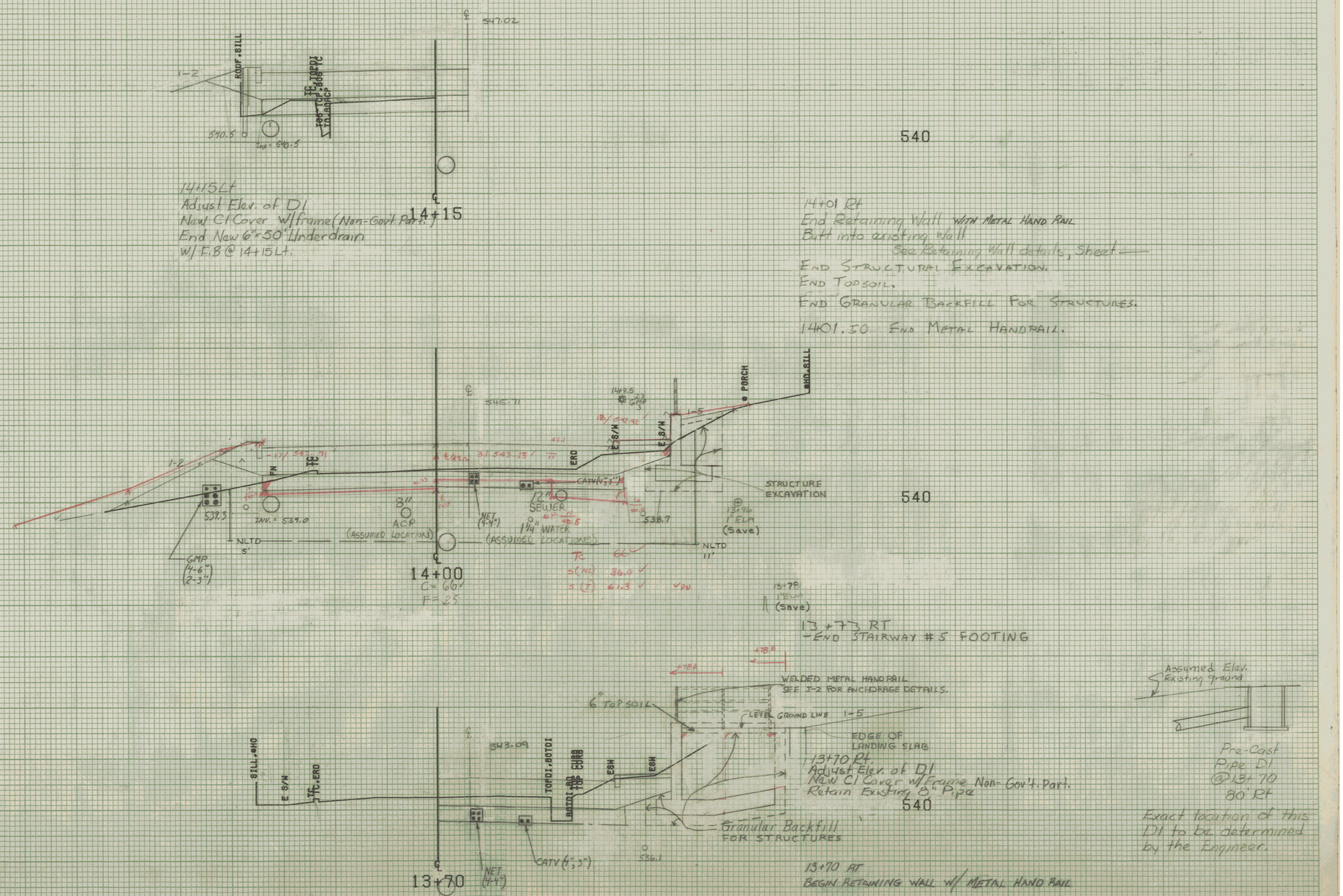
13+47
End Vertical Granite Curb



Plunging 12/5/97
Plot Ex 11/15/93
Plotting 11/15/93

FROM STA. 13+50	TO STA. 13+61
PROJECT NAME	MONTPELIER MAIN1
NO.	M6400(7) PLOTTED 08/07/85
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET 150 OF 335	SHEETS

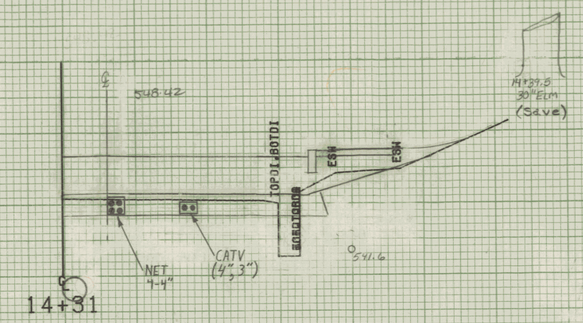
SCALE 5 FEET



547.02
ROOF.SILL
1-2
TC.TOPDI
TC.TOP.BOTDI
TO.BOTCP
540.5
540
14+15
14+15 Lt
Adjust Elev. of DI
New CI Cover w/frame (Non-Govt Part.)
End New 6"x50' Underdrain
w/ F.B @ 14+15 Lt.
14+01 Rt
End Retaining Wall WITH METAL HAND RAIL
Butt into existing wall
See Retaining Wall details, Sheet —
END STRUCTURAL EXCAVATION.
END TOPSOIL.
END GRANULAR BACKFILL FOR STRUCTURES.
14+01.50 END METAL HANDRAIL.
545.71
PORCH
SILL.SHO
ERD
E S/N
1-5
STRUCTURE EXCAVATION
540
539.3
INV. = 539.0
8" ACP (ASSUMED LOCATION)
NET (4-4")
12" SEWER
1 1/4" WATER (ASSUMED LOCATIONS)
538.7
13+96 1" ELM (Save)
NLTD 5'
NLTD 11'
GMP (4-6") (2-3")
14+00
C = 66
F = 25
Tc 66
S(NL) 36.0
S(T) 61.3
13+78 1" ELM (Save)
13+73 RT
- END STAIRWAY #5 FOOTING
+78.8
+78.8
WELDED METAL HANDRAIL
SEE J-2 FOR ANCHORAGE DETAILS.
6" TOPSOIL
LEVEL GROUND LINE 1-5
EDGE OF LANDING SLAB
543.09
SILL.SHO
E S/N
TC.ERD
TOPDI.BOTDI
BOTDI.BD
TOP CURB
ESN
ESN
13+70 Rt.
Adjust Elev. of DI
New CI Cover w/Frame Non-Gov't. Part.
Retain Existing 8" Pipe
540
Granular Backfill FOR STRUCTURES
CATV (4", 3")
536.1
NET (4-4")
13+70
13+70 RT
BEGIN RETAINING WALL W/ METAL HAND RAIL
13+69 Rt
Begin Vertical Granite Curb
Assumed Elev. Existing ground
Pre-Cast Pipe DI @ 13+70 80' Rt
Exact location of this DI to be determined by the Engineer.
SCALE 5 FEET
FROM STA. 13+70 TO STA. 14+15
PROJECT NAME MONTPELIER MAIN1
NO. M 6400(7) PLOTTED 06/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 151 OF 335 SHEETS

+17
4" LILAC
(Remove)

+10
4" LILAC
(Remove)



545

14+34 Rt.
Begin Vertical Granite Curb

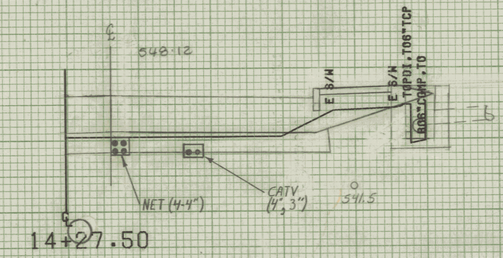
14+28 AT ~ 14+50 AT
REMOVE EXISTING D.I.
NEW 12"x 20' CSP, .064 OR CAAP .060
CONNECT 6" CGMP INLET TO NEW D.I.
PLUG EXISTING 6" OUTLET

545

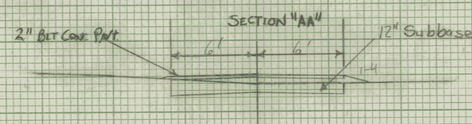
14+28 ~ 14+31 Rt.
Exist. DI - Adjust Elev.
New CI Cover w/ Frame Non-Gov't. Part.

+30
1" LILAC
(Remove)

+23
5" LILAC
(Remove)

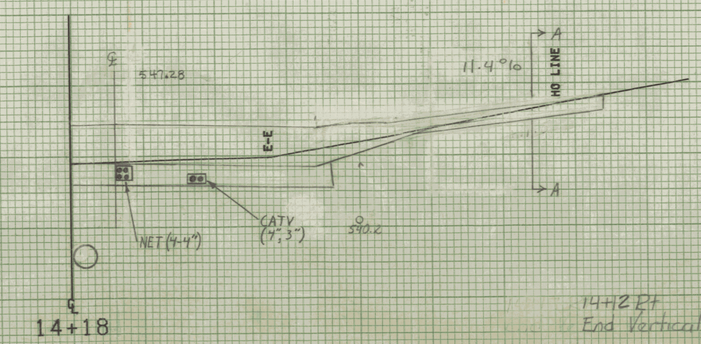


14+23 Rt
Construct Drive (12' Wide, Paved)



545

14+23 Rt
CONSTRUCT DRIVE
12' WIDE PAVED

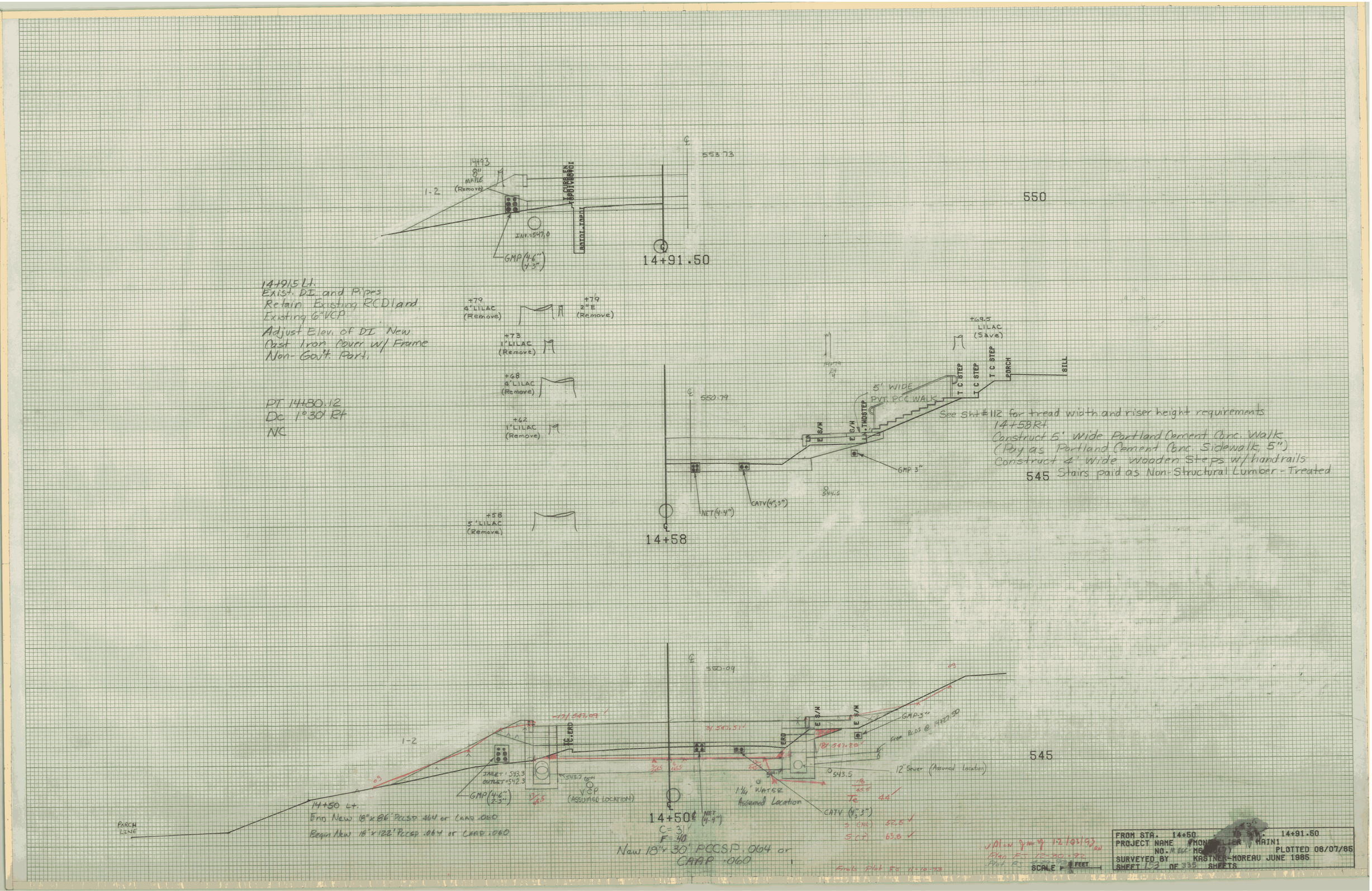


540

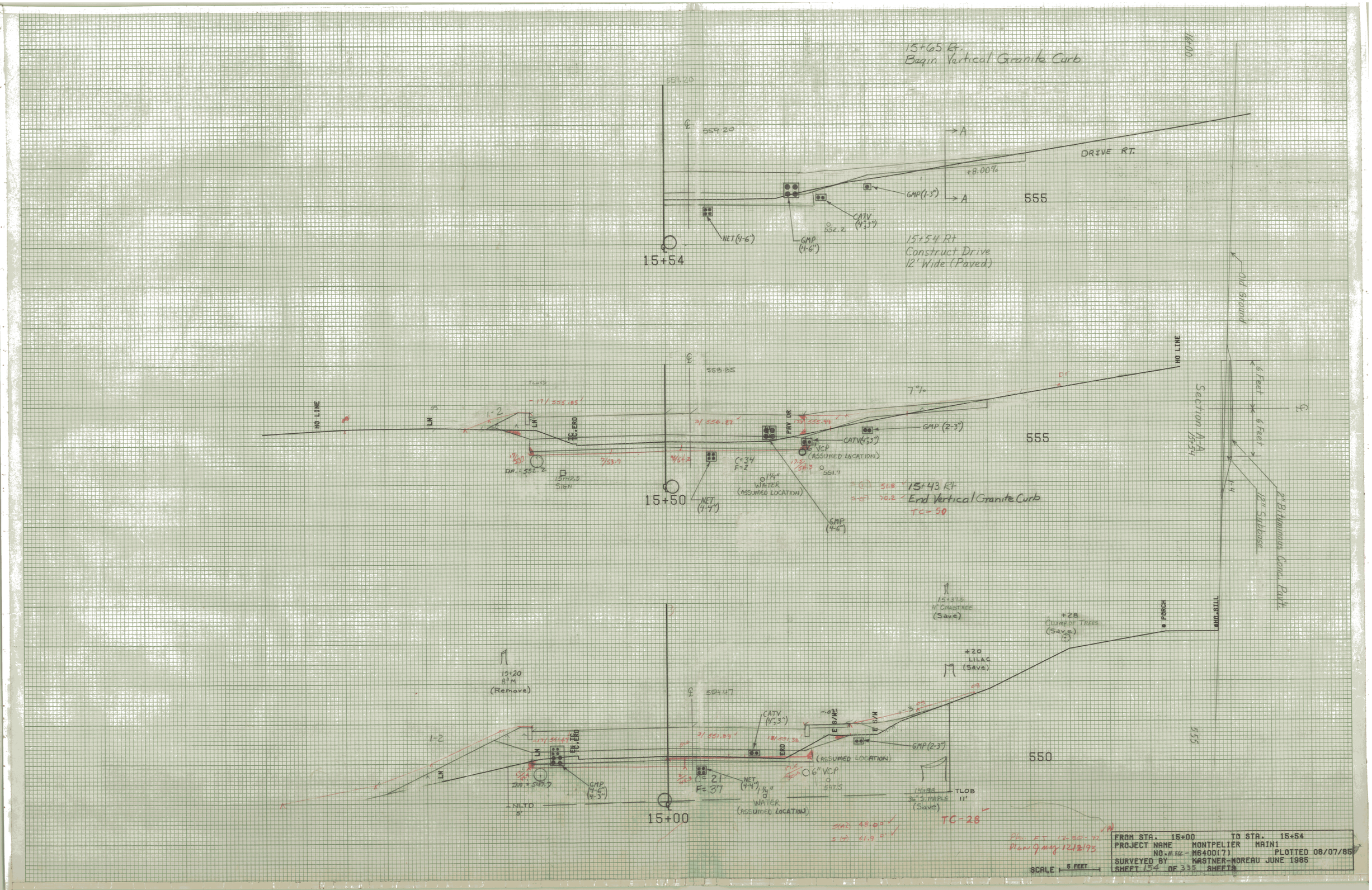
14+12 Rt
End Vertical Granite Curb

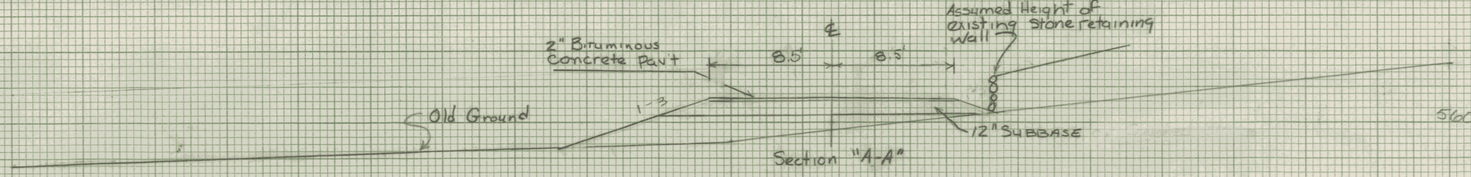
FROM STA. 14+18	TO STA. 14+31
PROJECT NAME MONTPELIER MAIN1	
NO. M 6400(7)	PLOTTED 08/07/86
SURVEYED BY KASTNER-MOREAU JUNE 1985	
SHEET 152 OF 335 SHEETS	

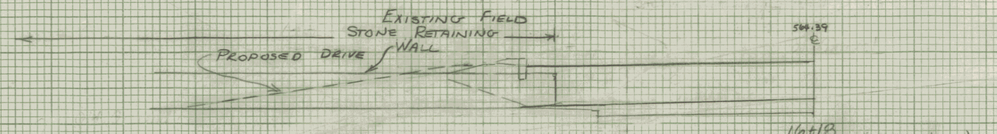
SCALE 5 FEET



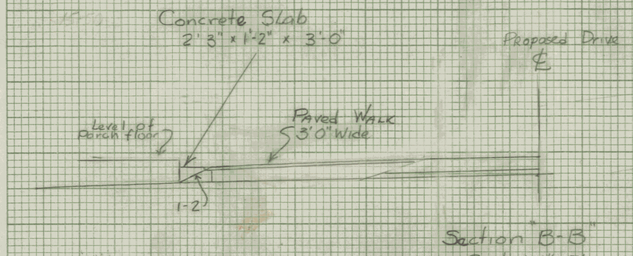
14+93
8" MAPLE (Remove)
1-2
INV.=547.0
GMP (4-6" 4-3")
553.73
14+91.50
550
14+91.5 Lt.
Exist. DI and Pipes
Retain Existing RCD land
Existing 6" VCP
Adjust Elev. of DI New
Cast Iron Cover w/ Frame
Non-Gov't. Part.
+79 4' LILAC (Remove)
+79 2" E (Remove)
+73 1' LILAC (Remove)
+68 4' LILAC (Remove)
+62 1' LILAC (Remove)
+58 5' LILAC (Remove)
PT 14+80.12
Dc 1°30' Rt
NC
550.79
+69.5 LILAC (Save)
5' WIDE PVT. PCC WALK
T C STEP
PORCH
SILL
See Sht #112 for tread width and riser height requirements
14+58 Rt.
Construct 5' Wide Portland Cement Conc. Walk
(Pay as Portland Cement Conc. Sidewalk, 5")
Construct 4' Wide Wooden Steps w/ handrails
Stairs paid as Non-Structural Lumber - Treated
GMP 3"
544.5
NET (4-4")
CATV (4", 3")
545
14+58
550.09
1-2
INLET = 543.3
OUTLET = 542.3
GMP (4-6" 2-3")
VCP (ASSUMED LOCATION)
1¼" WATER Assumed Location
12" Sewer (Assumed Location)
GMP-3"
Free BLDG @ 14+27.50
543.5
CATV (4", 3")
NET (4-4")
14+50 Lt.
End New 18" x 86' PCCSP .064 or CAAP .060
Begin New 18" x 122' PCCSP .064 or CAAP .060
PORCH LINE
14+50
C = 31
F = 40
New 18" x 30' PCCSP .064 or CAAP .060
545
SCALE 1" = 5 FEET
FROM STA. 14+50 TO STA. 14+91.50
PROJECT NAME MONTPELIER MAIN1
NO. M 86C-M6(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 153 OF 335 SHEETS

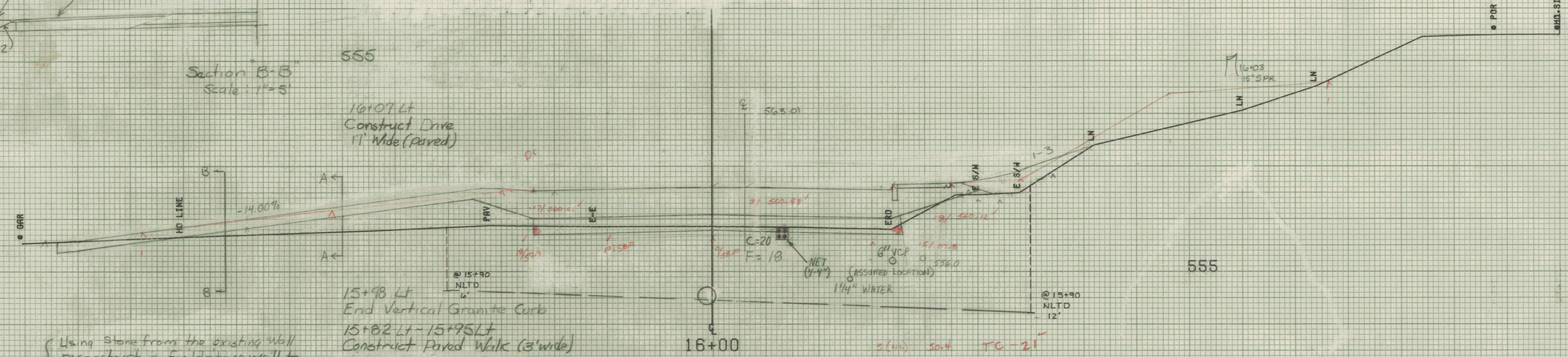

15+65 Rt.
Begin Vertical Granite Curb
559.20
DRIVE RT.
+8.00%
GMP(1-3")
CATV (4",3")
NET(4-6")
GMP (4-6")
552.2
555
15+54
15+54 Rt
Construct Drive
12' Wide (Paved)
Old Ground
6 Feet
Section A-A
15+54
2" Bituminous Conc. Pavt.
12" Subbase
558.85
7%
HO LINE
LN
PAV DR
GMP (2-3")
CATV(4",3")
6" VCP (ASSUMED LOCATION)
C=34
F=2
1¼" WATER (ASSUMED LOCATION)
NET (4-4")
GMP (4-6")
15+50
15+43 Rt
End Vertical Granite Curb
TC-50
15+37.5
4" CRABTREE
(Save)
+28
CLUMP OF TREES
(Save)
PORCH
HO. SILL
+20
LILAC
(Save)
15+20
8" M
(Remove)
554.47
CATV (4",3")
GMP(2-3")
(ASSUMED LOCATION)
6" VCP
C=21
F=37
NET (4-4")
1¼" WATER (ASSUMED LOCATION)
GMP (4-6")
(4-3")
NLTD
5'
550
14+98
36" S. MAPLE
(Save)
TLOB
11'
15+00
TC-28
SCALE 5 FEET
FROM STA. 15+00 TO STA. 15+54
PROJECT NAME MONTPELIER MAIN1
NO. M FEE - M6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 134 OF 335 SHEETS

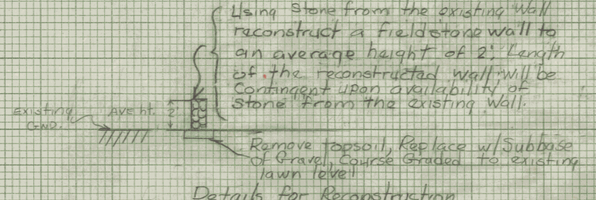


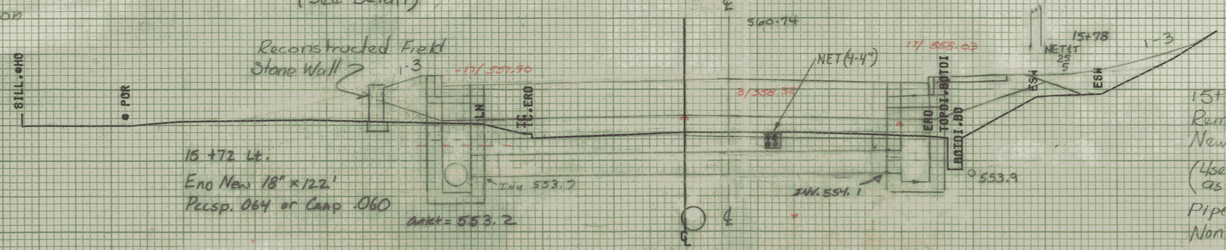


Note: The stone retaining wall located @ 16+18 Lt is to be entirely removed during the reconstruction. The stone from this wall is to be reset from 15+45 Lt ~ 15+95 Lt. Work to remove and reset the stone shall be paid under Item 602.20, Dry Rubble Masonry, and the costs will be Non-Gov't. Participation.









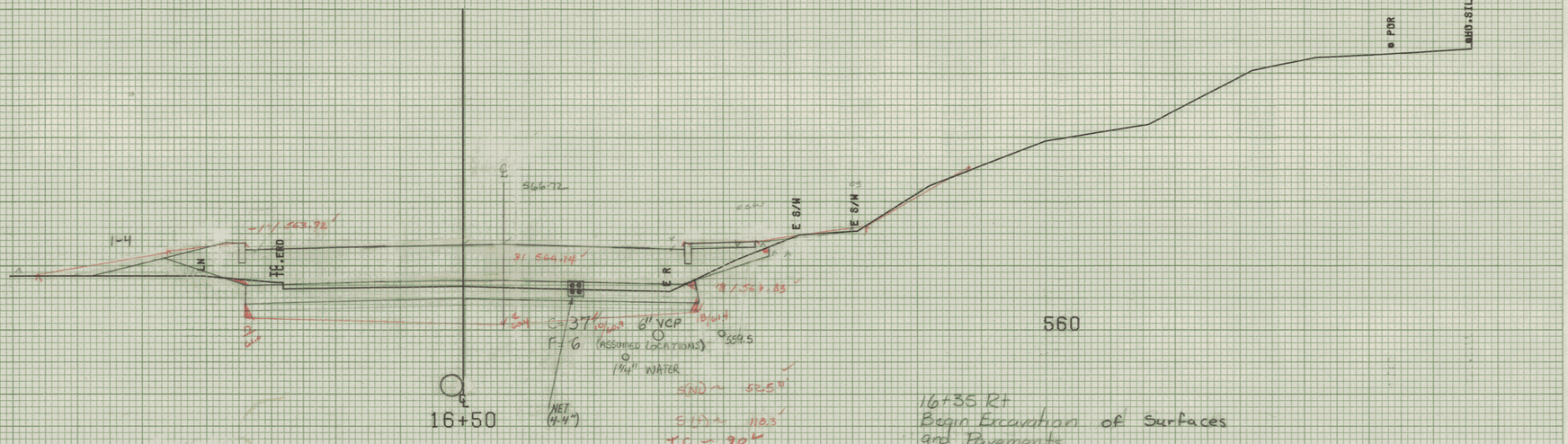
15+72 Rt
Remove Existing RCDI
New 6" x 4' PVC Pipe
(Use Transition Couplings as necessary)
Pipe and Couplings shall be Non-Gov't. Part.

555

PLAN P/N 5 Jan 93
Plot 5-5 1-29-93
Plan Proofing 12/2/93

FROM STA.	15+72 TO STA. 16+00
PROJECT NAME	MONTPELIER MAIN1
NO.	M-6400(7) PLOTTED 08/07/85
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET	55 OF 335 SHEETS

SCALE 5 FEET



FROM STA. 16+22	TO STA. 16+50
PROJECT NAME MONTPELIER MAIN1	
NO. M EG-M6400(7)	PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985	
SHEET 156 OF 335 SHEETS	

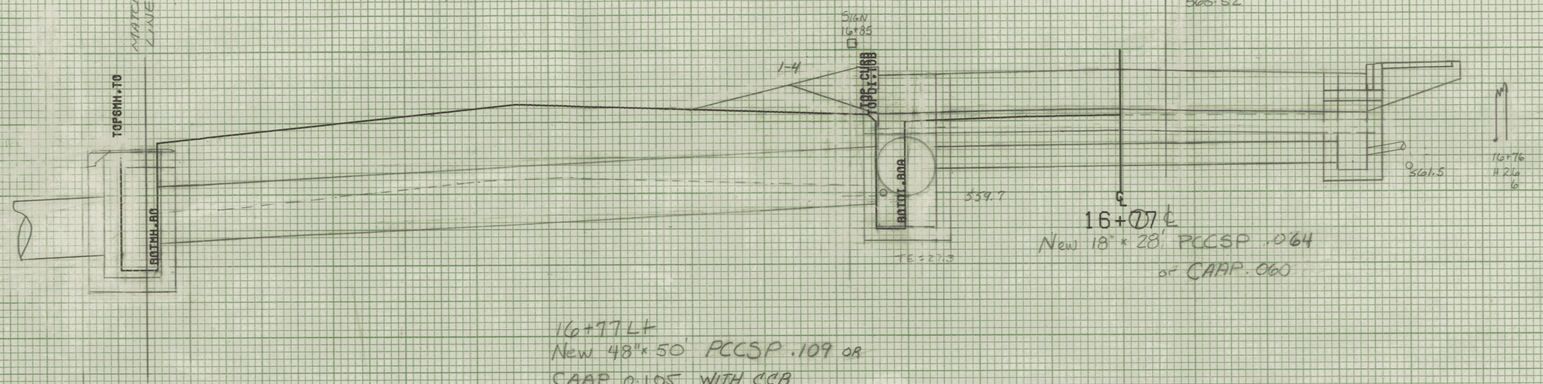
SCALE 5 FEET

16+77 Lt ~ 19+09 Rt
Remove Existing 36" CMP & 2'x2' DI

16+88
End Vertical
Granite Curb

16+77 Lt
Begin New 48"x96' PCCSP.109 or
CAAP 0.105

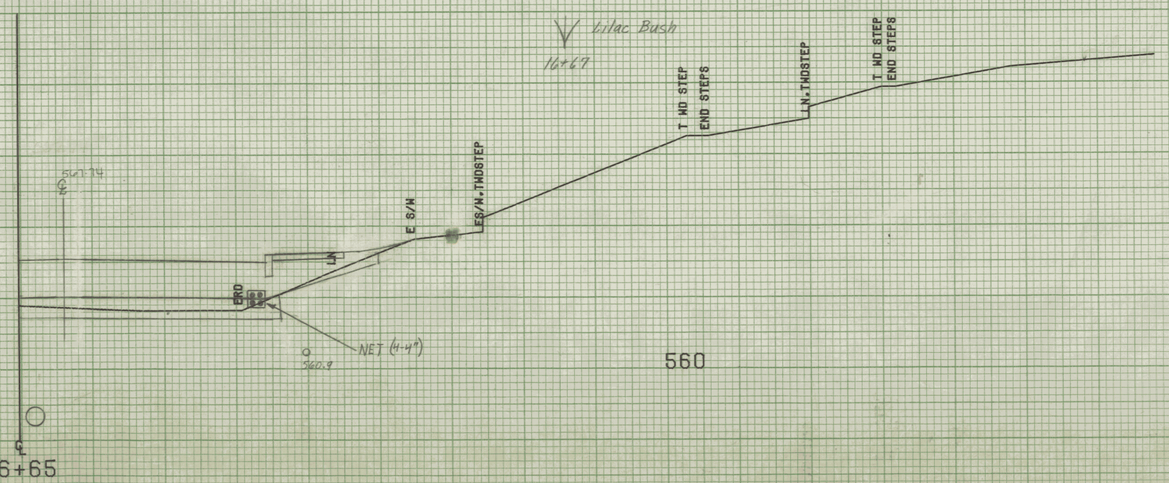
NOTE:
FOR DETAILS OF THE REMAINDER OF THIS SYSTEM SEE SHEET 158



16+77 LT ~ River St. Trav 85+07 RT.
New 48" x 136' PCCSP(.109)
or CAAP(.105)

16+77 LT
New 48" x 50' PCCSP .109 OR
CAAP 0.105 WITH CCB

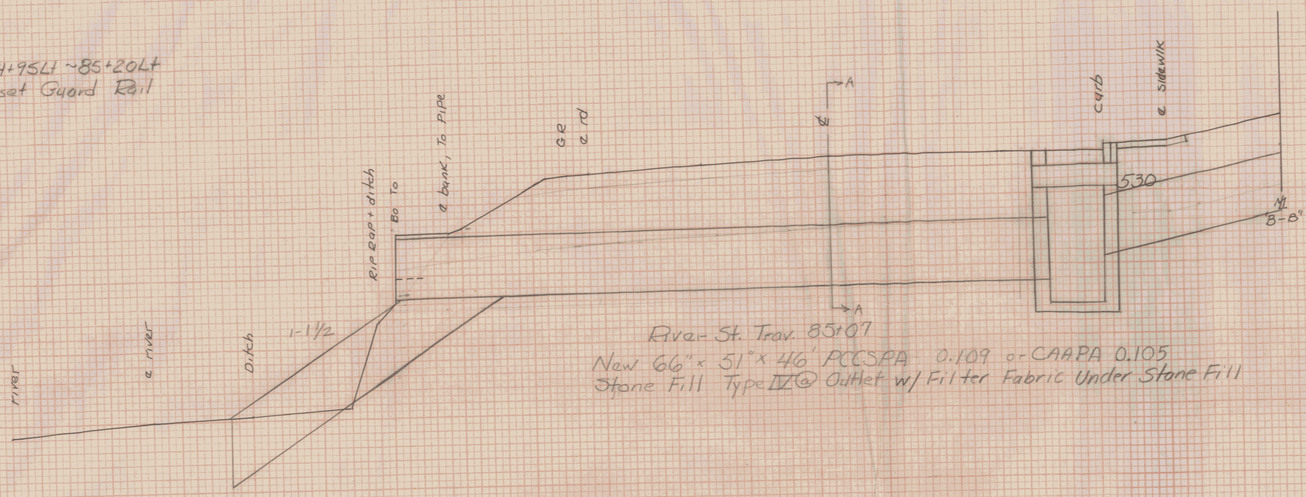
REMOVE EXISTING 36" CGMP + D.I.
BEGIN NEW 6" x 50' UNDERDRAIN W/ F.B. @ 17+21 LT.
16+77 LT ~ 17+16 RT



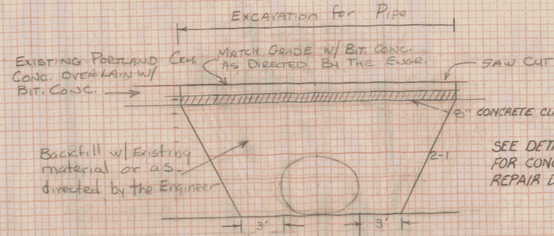
FROM STA.	16+65 TO STA. 16+77
PROJECT NAME	MONTPELIER MAIN1
NO.	M6400(7) PLOTTED 08/07/85
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET	157 OF 335 SHEETS

SCALE 5 FEET

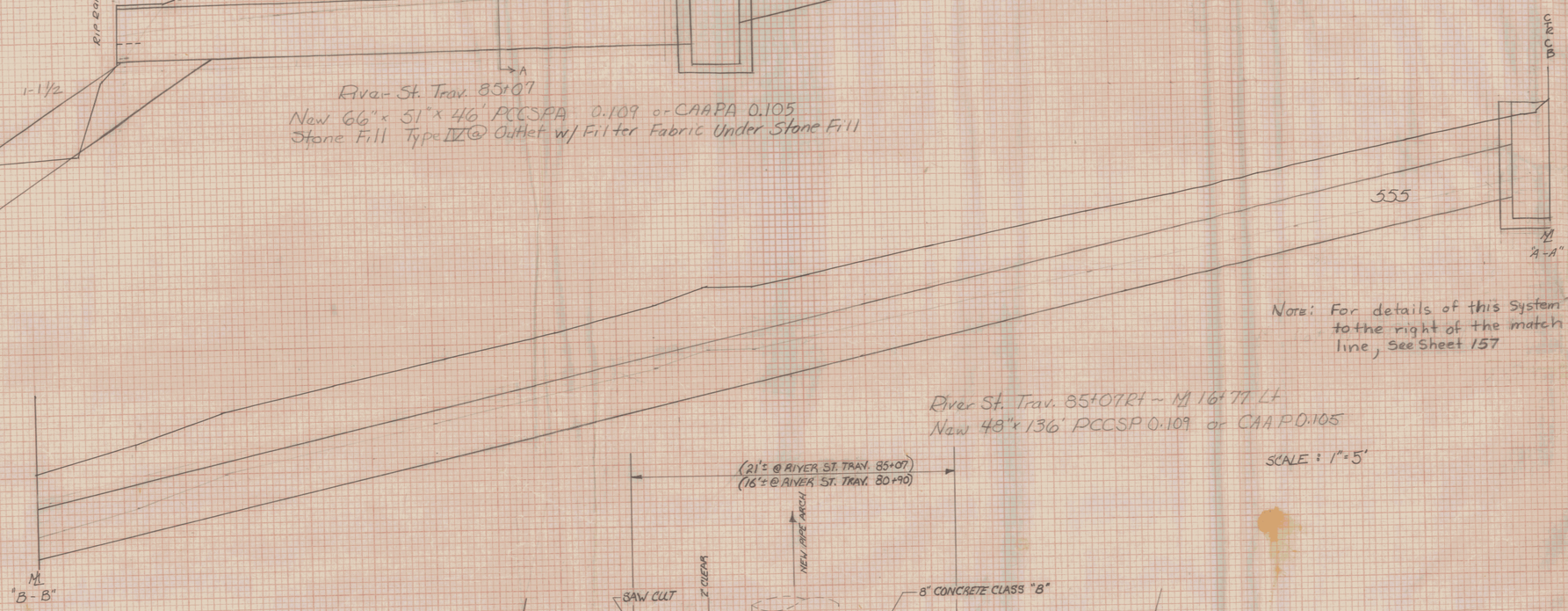
Riv. St. Trav. 84+95Lt ~85+20Lt
Remove & Reset Guard Rail



River St. Trav. 85+07
New 66" x 51" x 46' PCCSPA 0.109 or CAAPA 0.105
Stone Fill Type IV @ Outlet w/ Filter Fabric Under Stone Fill



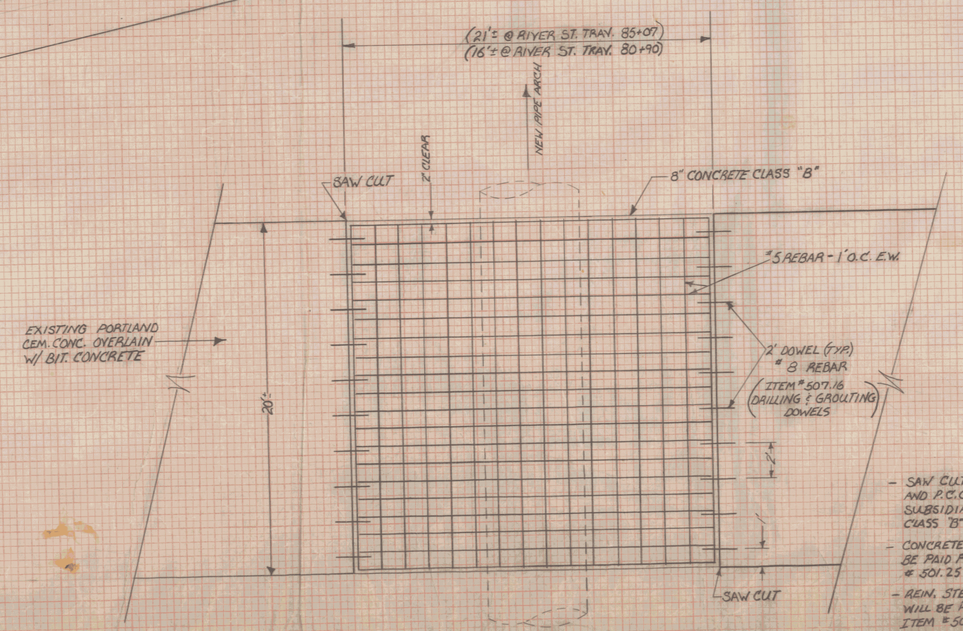
SEE DETAIL BELOW FOR CONCRETE PAVEMENT REPAIR DETAIL



Note: For details of this System to the right of the match line, See Sheet 157

River St. Trav. 85+07Rt ~ M 16+77 Lt
New 48" x 136' PCCSP 0.109 or CAA P0.105

SCALE: 1" = 5'

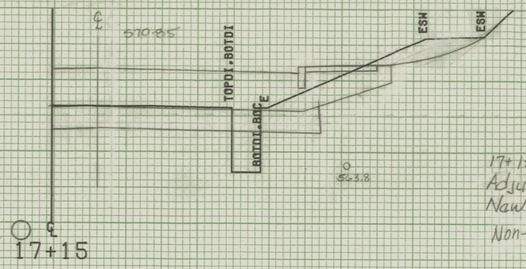


P.C.C. PAVEMENT REPAIR DETAIL
NTS

- SAW CUTTING OF BIT. ASPHALT AND P.C.C. PAVE. WILL BE SUBSIDIARY TO CONCRETE CLASS "B" ITEM # 501.25
- CONCRETE FOR REPAIR WILL BE PAID FOR UNDER ITEM # 501.25 CONC. CL. "B"
- REIN. STEEL USED IN REPAIR WILL BE PAID FOR UNDER ITEM # 507.15 REIN. STEEL

MONTPELIER
M EGC-M 6400(7)
SHEET 158 OF 335

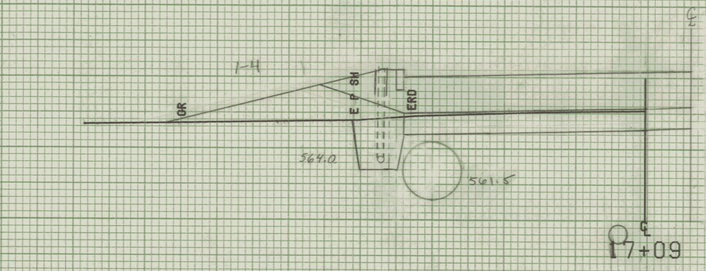
17+16 AT ~ 19+09 RT.
REMOVE EXISTING 36" CGMP + D.I.



565

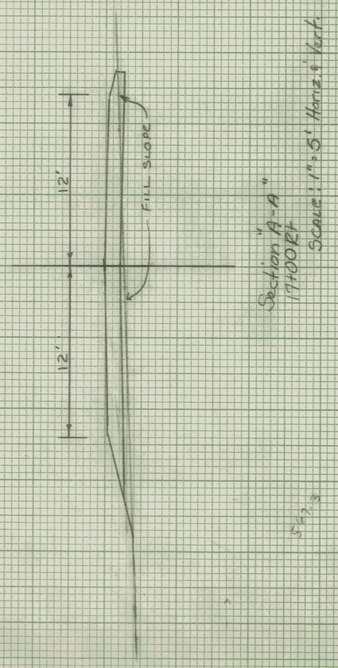
17+27 Lt
End New 6" x 50' Underdrain
W/F.B. @ 17+21 Lt.

17+15 Rt
Adjust Elev. of RCDI
New C.I. Cover & Frame
Non-Gov't. Part.

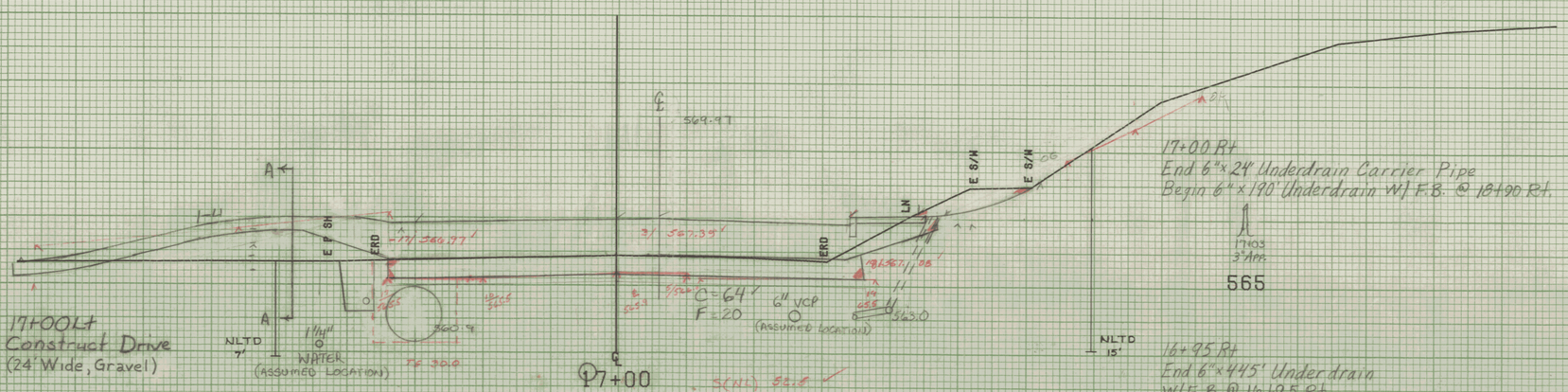


565

17+12 Begin Vertical Granite Curb



Section "A-A"
17+00 Rt
Scale: 1"=5' Horiz. & Vert.



17+00 Lt
Construct Drive
(24' Wide, Gravel)

17+00 Rt
End 6" x 24' Underdrain Carrier Pipe
Begin 6" x 190' Underdrain W/F.B. @ 18+90 Rt.

17+03
3' Appr.

565

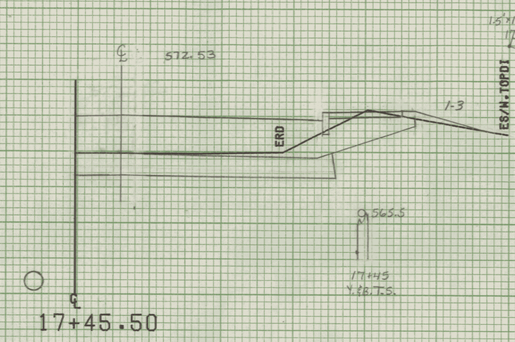
16+95 Rt
End 6" x 445' Underdrain
W/F.B. @ 16+95 Rt.

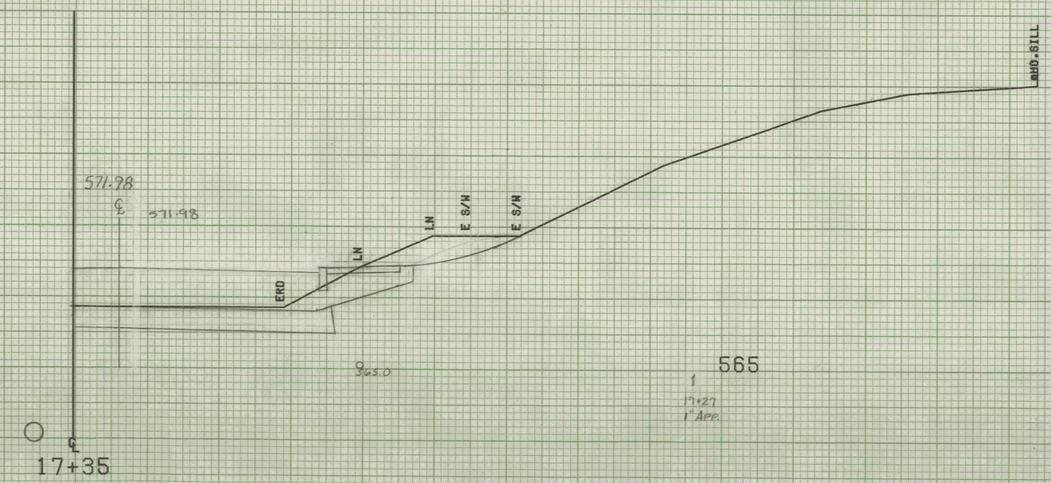
Plan given 12/04/93

FROM STA.	17+00 TO STA. 17+15
PROJECT NAME	MONTPELIER MAIN1
NO.	ACC-M6400(7) PLOTTED 06/07/85
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET	152 OF 335 SHEETS

SCALE 5 FEET

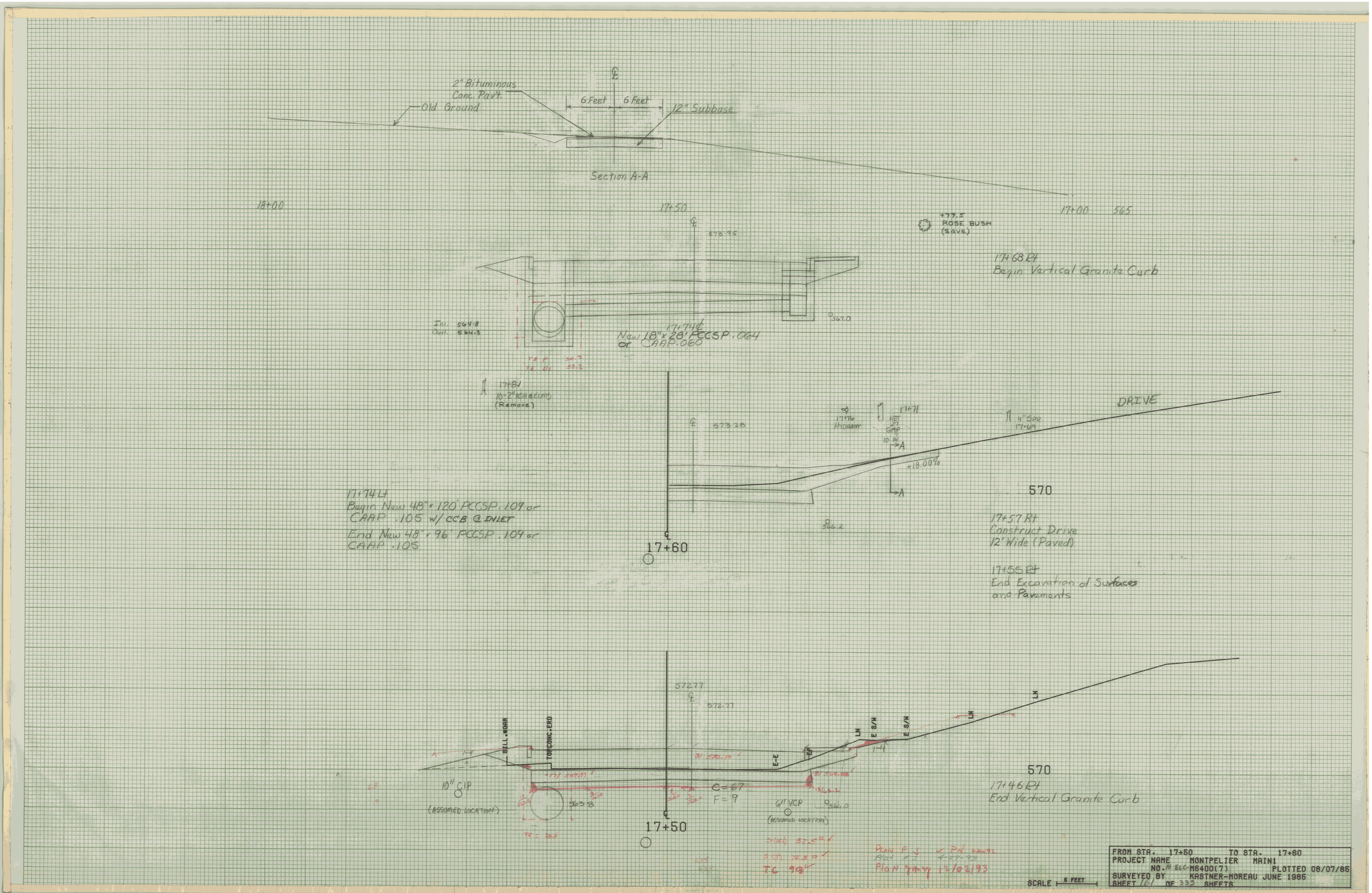
17+45.5 Rt
Remove existing 1.5' x 1.5' DI



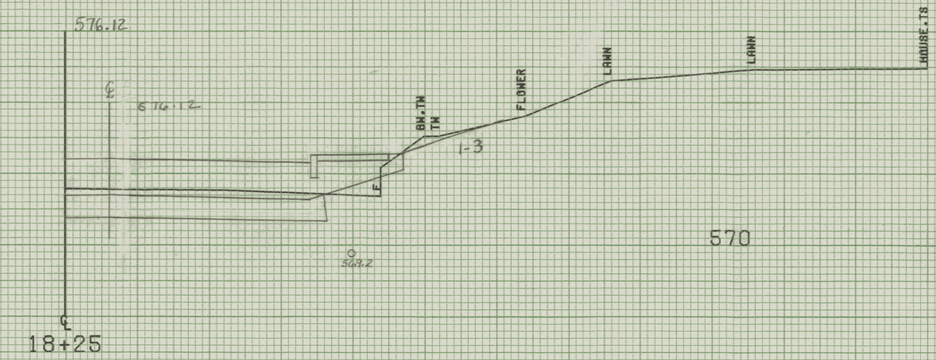


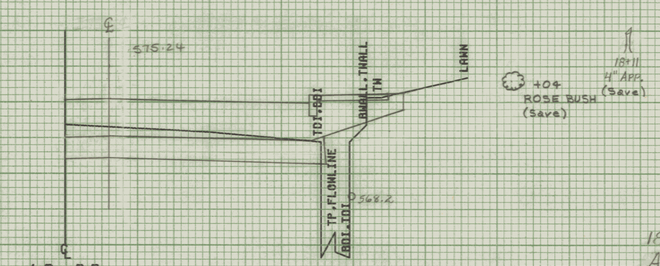
FROM STA. 17+35	TO STA. 17+45.50
PROJECT NAME MONTPELIER	MAIN1
NO. M6400(7)	PLOTTED 08/07/86
SURVEYED BY KASTNER-MOREAU	JUNE 1986
SHEET 160 OF 335 SHEETS	

SCALE 1"=5'

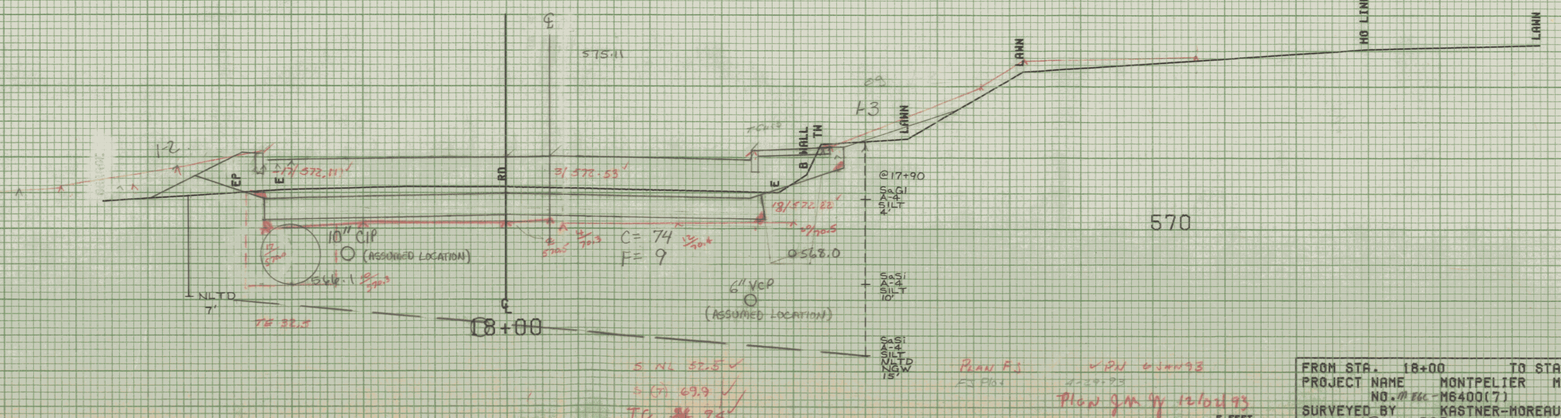


FROM STA. 17+50 TO STA. 17+60
PROJECT NAME MONTPELIER MAIN1
NO. M ECC M6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 161 OF 335 SHEETS



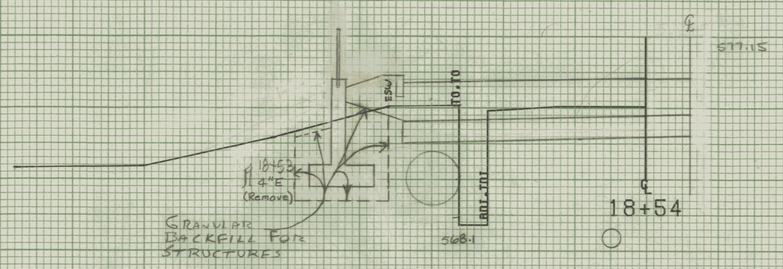


18+03 Rt
Adjust Elev. of RCD1
New C.I. Cover w/ Frame
Non-Gov't. Part.



FROM STA. 18+00	TO STA. 18+25
PROJECT NAME MONTPELIER	MAIN2
NO. [illegible] M6400(7)	PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU	JUNE 1985
SHEET 162 OF 335 SHEETS	

SCALE 5 FEET

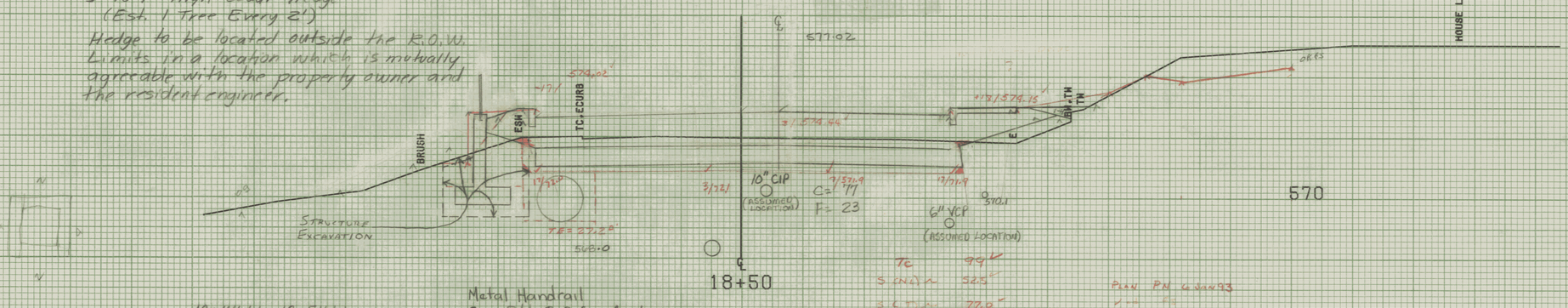


#60
ROSE BUSH
(Save)

575

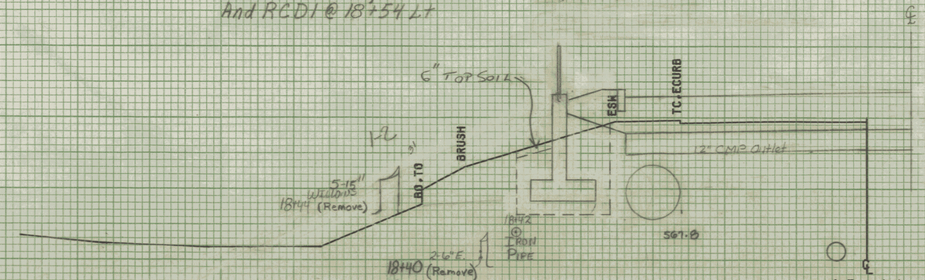
18+56Rt
End Vertical Granite Curb

18+42 ~ 19+20 Lt. Evergreen Trees
3' to 4' High Cedar Hedge
(Est. 1 Tree Every 2')
Hedge to be located outside the R.O.W. Limits in a location which is mutually agreeable with the property owner and the resident engineer.



18+44 Lt ~ 18+54 Lt
Remove Existing 12" CMP
And RCDI @ 18+54 Lt

Metal Handrail
See Std. J-2 for Anchorage Details



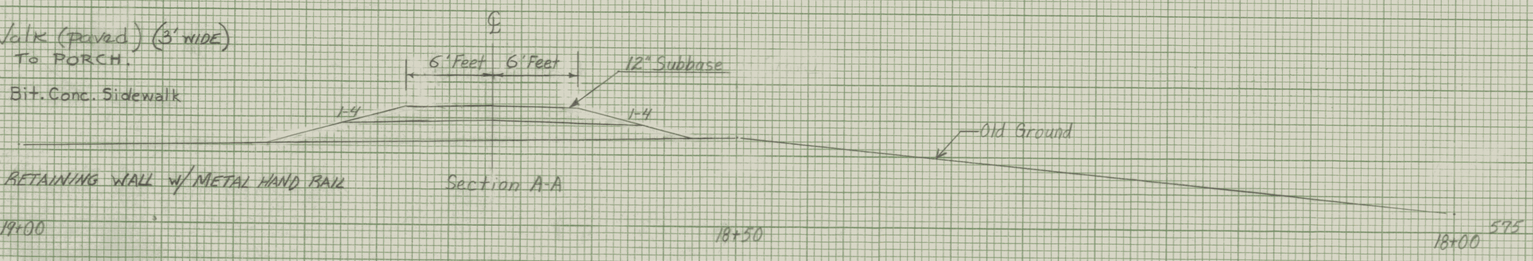
18+42 Lt. Begin Concrete Retaining Wall w/ Metal Hand Rail.
18+41 Lt. Begin Structural Excavation.
Begin Granular Backfill For Structures.
Begin Topsoil.

SCALE 1" = 5 FEET

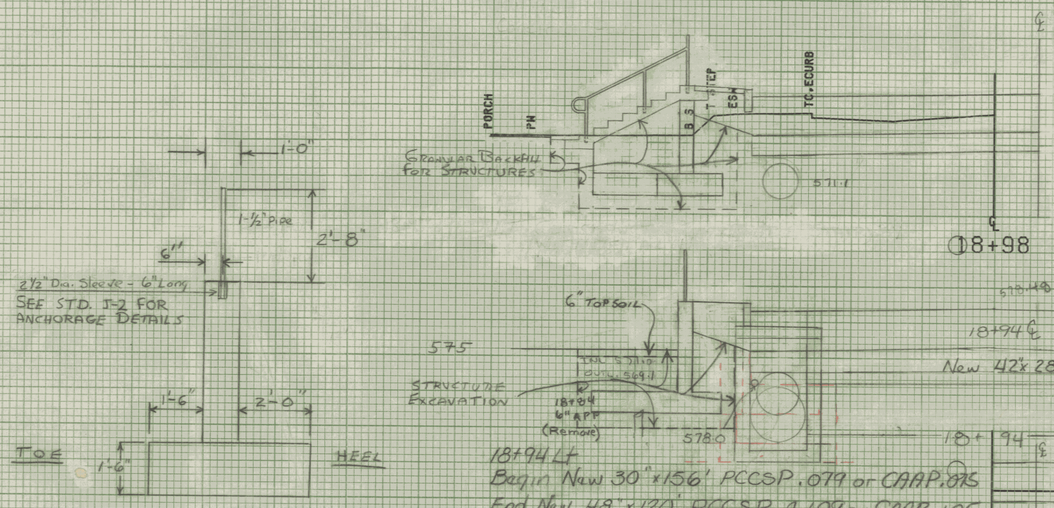
FROM STA. 18+44	TO STA. 18+54
PROJECT NAME MONTPELIER	MAIN2
NO. M6400(7)	PLOTTED 06/07/85
SURVEYED BY KASTNER-MOREAU	JUNE 1985
SHEET 103 OF 335 SHEETS	

18+99 Lt
Construct Walk (paved) (3' WIDE)
FROM STEPS TO PORCH.
3±0 WIDE.
To Be Paid as Bit. Conc. Sidewalk

18+95 Lt
END CONCRETE RETAINING WALL w/ METAL HAND RAIL



18+97.5 Lt.
Construct Concrete Stairway
w/metal handrail



5+50 Rt ~ Oct. Lane 18+94 Rt.
New 42"x44' CSP (.109)

575

OCT. LANE 5+50 Lt ~ 18+94 Rt
New 18"x74' PCCSP(.064) or CAAP(.060)
18+90 Rt
End 6"x190' Underdrain w/ F.B @ 18+90 Rt

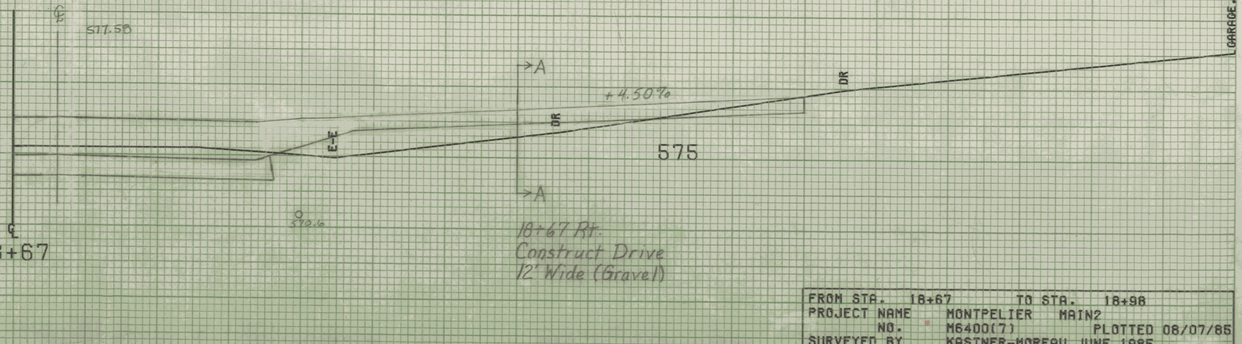
18+84 Rt
Construct Sidewalk Ramp
(Type 6)

18+76 Rt ~ 19+09 Rt
Remove Existing 15" CMP

18+80
8" P. (Remove)
N.G.P.

575

18+75 Rt
Begin Vertical Granite Curb



18+67 Rt.
Construct Drive
12' Wide (Gravel)

FROM STA.	18+67	TO STA.	18+98
PROJECT NAME	MONTPELIER	MAIN2	
NO.	M6400(7)	PLOTTED	08/07/85
SURVEYED BY	KASTNER-MOREAU	JUNE 1985	
SHEET 164	OF 335	SHEETS	

SCALE 5 FEET

19+41 Lt
Begin Vertical Granite Curb

19+37
Begin Portland Cement Conc.
Sidewalk -5" - 5' Wide
End Portland Cement Conc.
Sidewalk, 5", 3.5' Wide

20+00

3" Bit. Conc. Pvt.
14.5 Feet
14.5 Feet
Subbase: Depth to taper to match existing subbase depth
1-4
1-4
19+00
580
Section B-B

8" VC
K=1

-11.00%
DR
DR
A
A
EPAV
EGR
E.F.
579.69
BBK LT
+6.00%
B
B
OCTOBER LANE
575
573.6
572.2
574.22
Not Surveyed (-3.8')

19+30 Lt
Construct Drive
12' Wide (Gravel)

19+34.02 RT
Construct Approach
October Lane
26' Wide

19+30
℄

19+50
12" Subbase
6 Feet
6 Feet
Section A-A
1:3
19+30
℄
575
19+00

19+22.5 LT - End Structural Excavation
End Granular Backfill For Structures.
End Top Soil.

19+19 Lt
End Vertical Granite Curb

8" App.
19+10
8" APPLE
(Remove)

19+20 Lt
End Concrete Retaining Wall
With Metal Handrail. Extend up Drive 5'-0"

578.99
TOI, RCI
BOT. TOI
574.7
571.9
575
See October Lane Sections Sheet,
19+09

19+25 Rt
End Vertical Granite Curb

19+09 ~ Oct Lane 5+50 Rt.
Remove First 32" OF 30" CMP
End Portland Cement Conc.
Sidewalk - 5" - 5' Wide

19+01 ~ 19+04 Rt. Transplanting Trees
Lilac Trees (5 Est.)
Lilacs to be transplanted outside of the R.O.W. Limits in a location which is mutually agreeable with the property owner and the resident engineer.

19+00 Lt
Begin Retaining Wall with
Metal Handrail

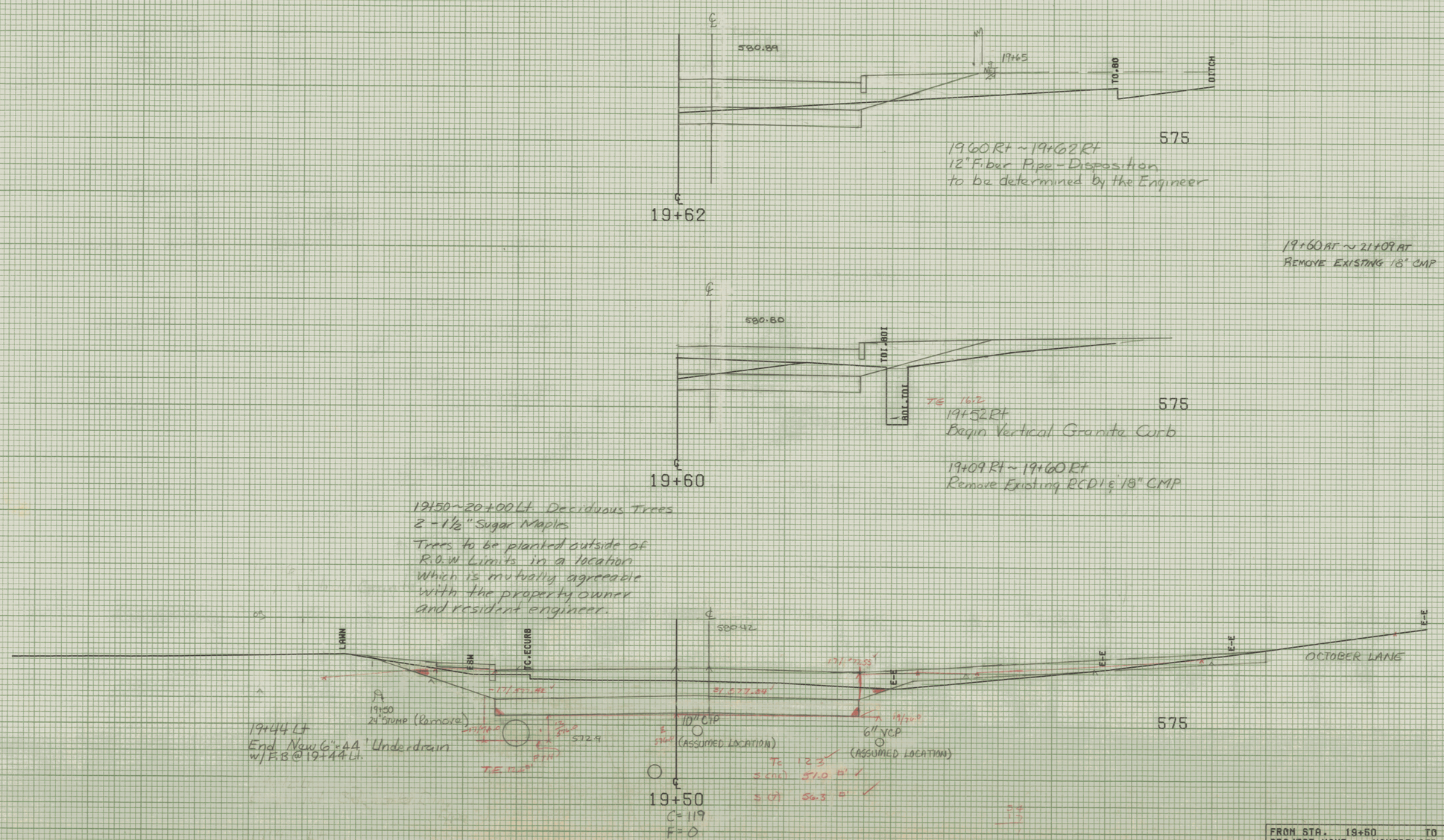
6" Topsoil
HD PORCH
24" LAWN
FSW
TC-ECURB
573.2
571.2
Granular Backfill For Structures
NLTD 7'
Structure Excavation
578.69
10" CIP
(ASSUMED LOCATION)
CL 91
F=17
573.2 6" WOP
(ASSUMED LOCATION)
A-4
SANDY SILT
NLTD
NGW
10'
NLTD 10'
To S (Nu) 52.5
S (T) 53.9
LAWN
LAWN
575
19+00

19+00 Lt
End 6"x6' Underdrain Corner Pipe
Begin 6"x4" Underdrain w/ F.B @ 19+44 Lt.

Plan PM 6 Jun 93
Plan Stamp 12/03/93

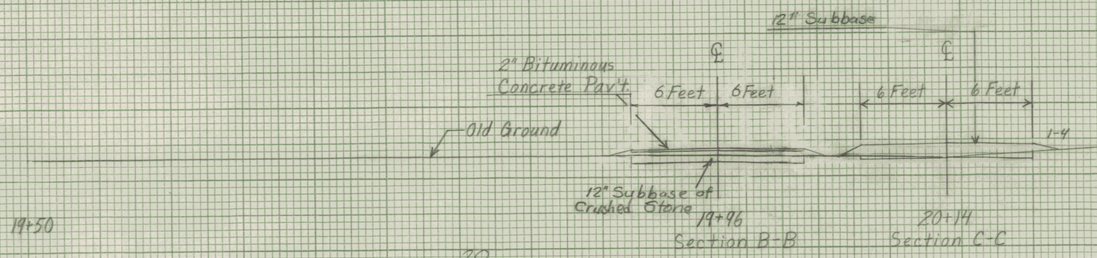
FROM STA.	19+00 TO STA. 19+30
PROJECT NAME	MONTPELIER MAIN2
NO.	M6400(7) PLOTTED 06/07/95
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET 162 OF 336 SHEETS	

SCALE 5 FEET



FROM STA. 19+50 TO STA. 19+62
PROJECT NAME MONTPELIER MAIN2
NO. M 6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 166 OF 335 SHEETS

SCALE 5 FEET



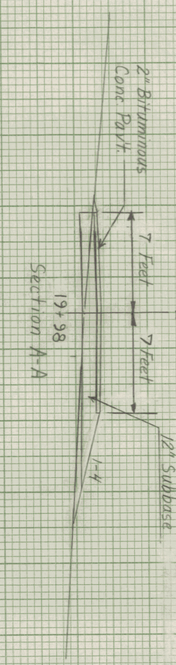
19+50

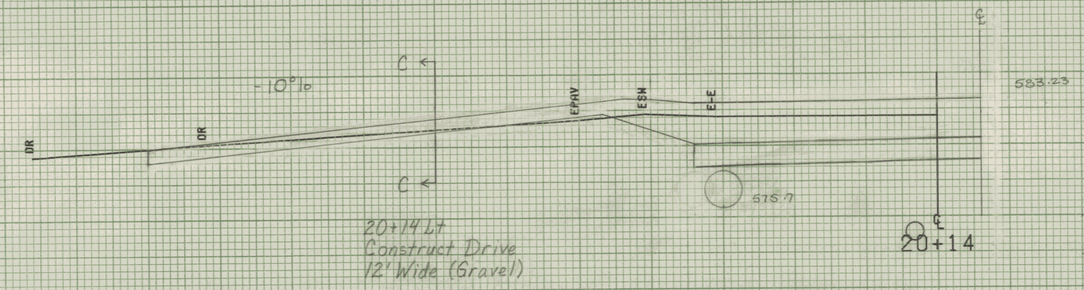
20

580

20+50

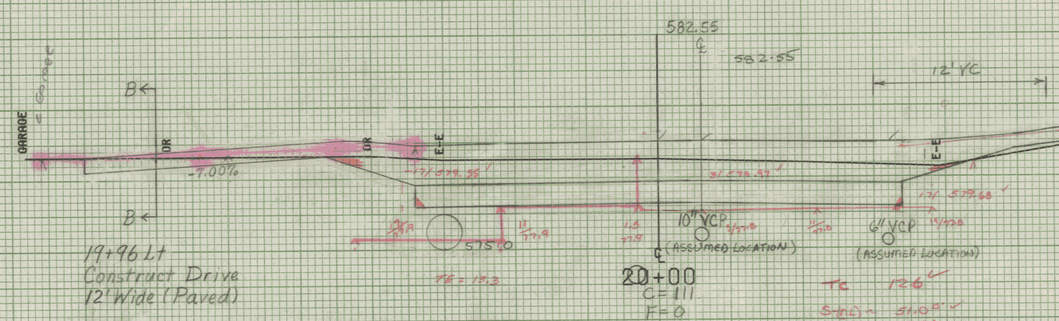
20+05 Rt
Begin Vertical Granite Curb





20+14 Lt
Construct Drive
12' Wide (Gravel)

580



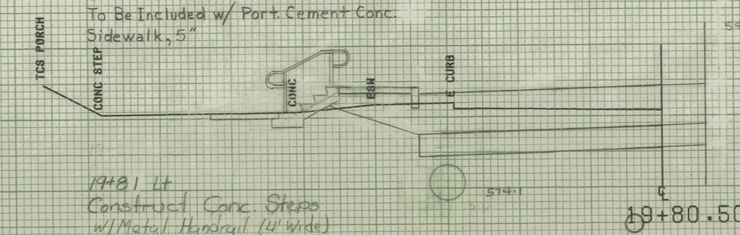
19+96 Lt
Construct Drive
12' Wide (Paved)

19+85 Lt
End Vertical Granite Curb

19+98 Rt
Construct Drive
14' Wide (Paved)

19+91 Rt
End Vertical Granite Curb

19+32 Lt
Construct Conc. Walk (4' Wide)
To Be Included w/ Port. Cement Conc.
Sidewalk, 5"



19+81 Lt
Construct Conc. Steps
w/Metal Handrail (4' Wide)

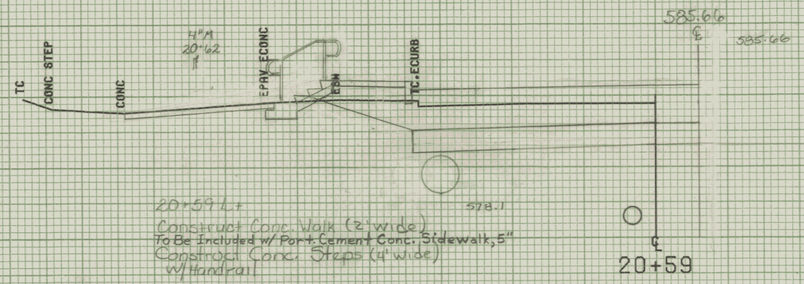
19+89
30" ELM
(Save)

580

SCALE 5 FEET

FROM STA.	19+80.50 TO STA. 20+14
PROJECT NAME	MONTPELIER MAIN2
NO.	M6400(7) PLOTTED 08/07/85
SURVEYED BY	KASTNER-MOREAU JUNE 1985
SHEET	167 OF 335 SHEETS

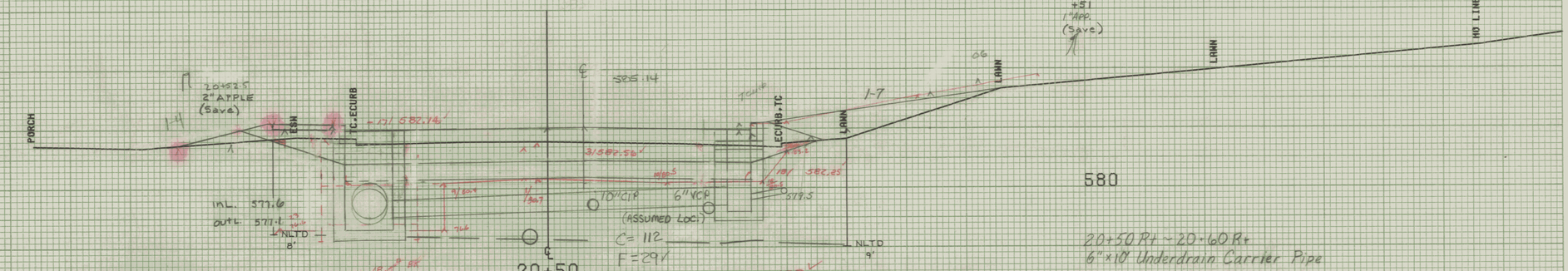
20+59 Lt
End Vertical Granite Curb



20+59 Lt
Construct Conc. Walk (2' wide)
To Be Included w/ Portland Cement Conc. Sidewalk, 5"
Construct Conc. Steps (4' wide)
w/ Handrail

20+60 Rt
Begin New 6"x282' UNDERDRAIN
w/ FLUSHING BASIN @ 23+42 Rt

580



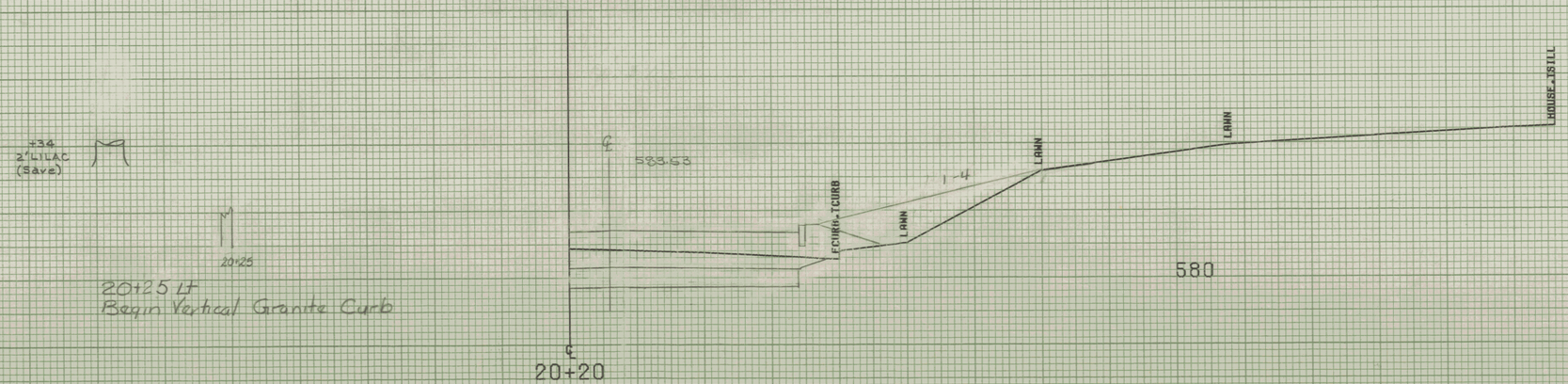
20+50 Lt
Begin New 30"x148' PCCSP.079 or
CAAP.075
End New 30"x156' PCCSP.079 or
CAAP.075

New 18"x28' PCCSP.064
or CAAP.060

C = 112
F = 29 V

580

20+50 Rt - 20+60 Rt
6"x10' Underdrain Carrier Pipe



20+25 Lt
Begin Vertical Granite Curb

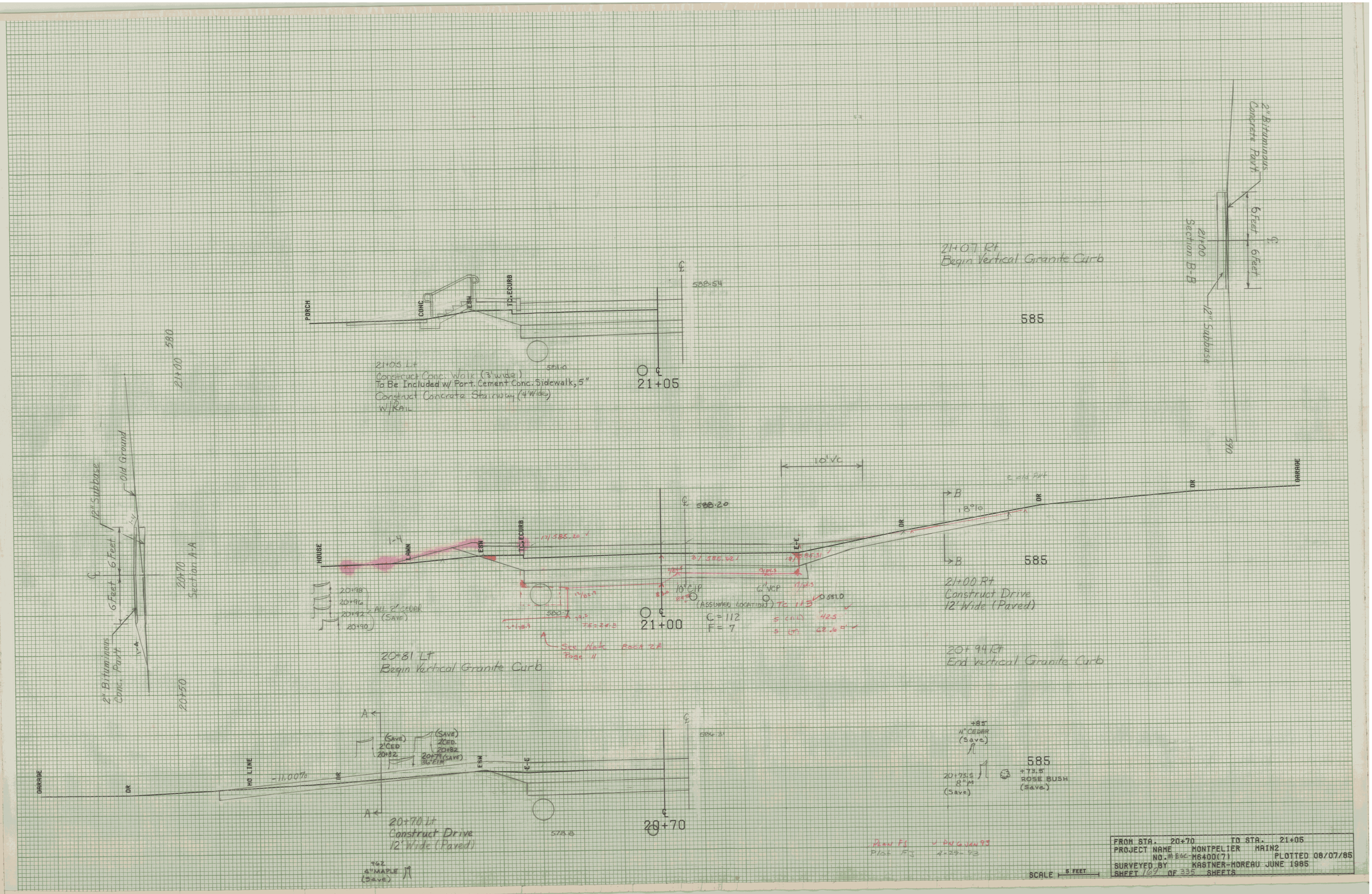
580

20+20

FJ Plot 4-27-93

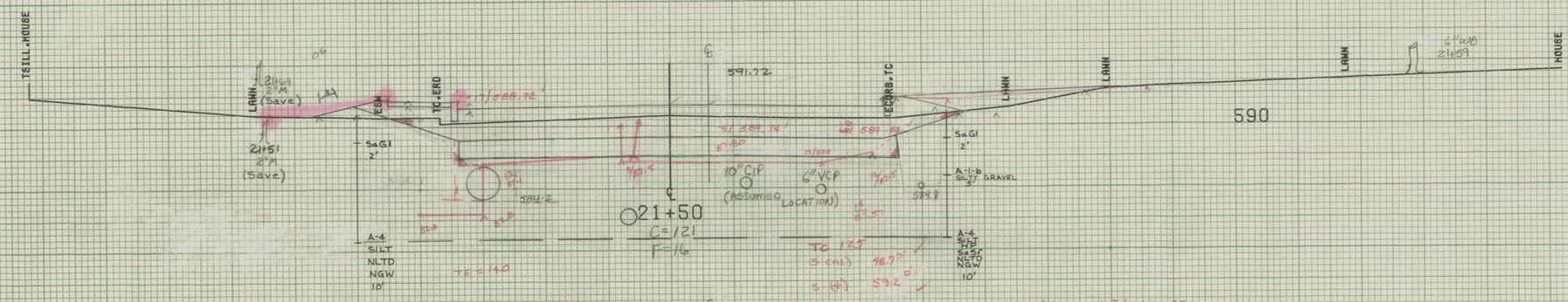
FROM STA. 20+20	TO STA. 20+59
PROJECT NAME MONTPELIER	MAIN2
NO. MEM-M6400(7)	PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985	
SHEET 168 OF 335 SHEETS	

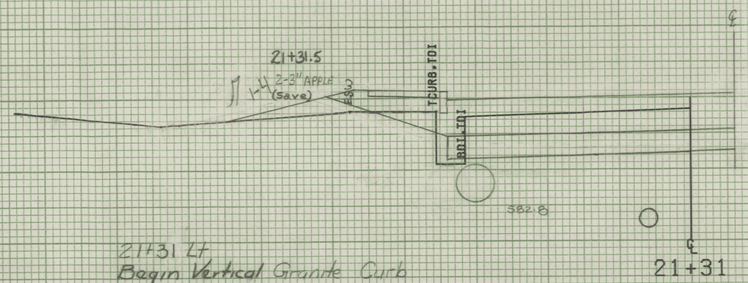
SCALE 5 FEET



FROM STA. 20+70 TO STA. 21+05
PROJECT NAME MONTPELIER MAIN2
NO. M BGC-M6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 169 OF 335 SHEETS

21+73 Lt
End Vertical Granite Curb

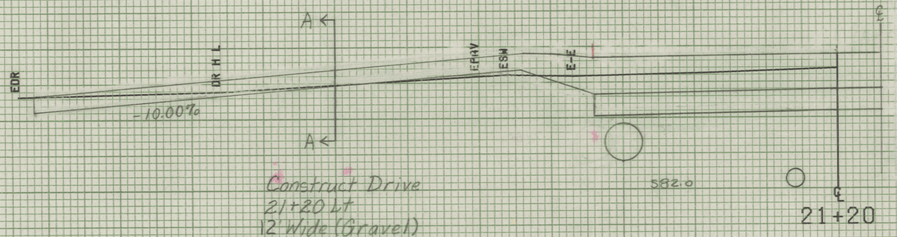




21+31 Lt
Begin Vertical Granite Curb

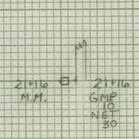
21+31

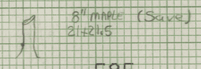
21+09 Rt ~ 21+31 Lt
Remove Existing DI'S, 18" CMP
6" U.D & 8" Inlet pipe to be plugged
& to remain in place.



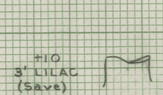
Construct Drive
21+20 Lt
12' Wide (Gravel)

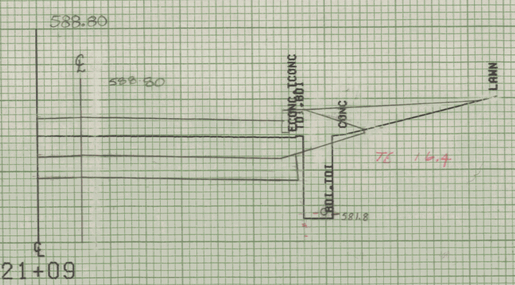
21+20



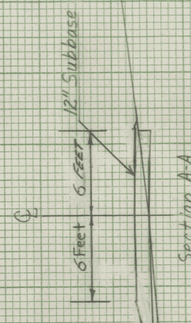


21+09 Lt
End Vertical Granite Curb





21+09



Plot FS 4-22-93

SCALE 5 FEET

FROM STA. 21+09 TO STA. 21+50
PROJECT NAME MONTPELIER MAIN2
NO. M6400(7) PLOTTED 08/07/85
SURVEYED BY KASTNER-MOREAU JUNE 1985
SHEET 170 OF 335 SHEETS