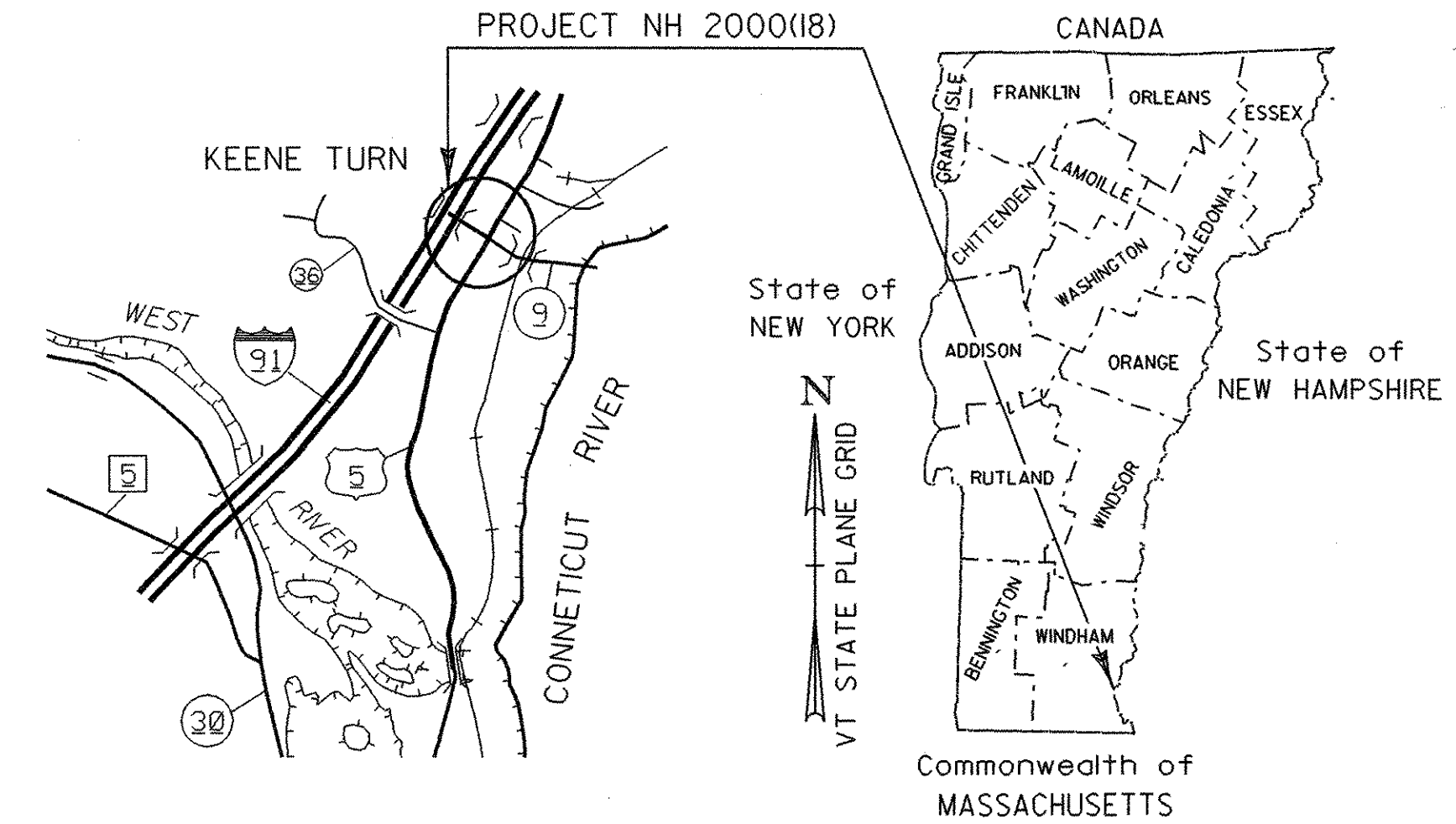


INDEX OF SHEETS  
SEE SHEET 2

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWN OF BRATTLEBORO  
COUNTY OF WINDHAM



**RECORD PLANS**

CONTRACTOR: SCOTT CONSTRUCTION - NEWPORT, VT

RESIDENT ENGINEER: J. DEPAOLIS

CONSTRUCTION BEGAN: JUNE 28, 1999

CONSTRUCTION COMPLETE: DECEMBER 14, 1999

RECORD PLANS BY: J. DEPAOLIS

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY J. DePaolis RESIDENT ENGINEER  
DATE 3/25/03

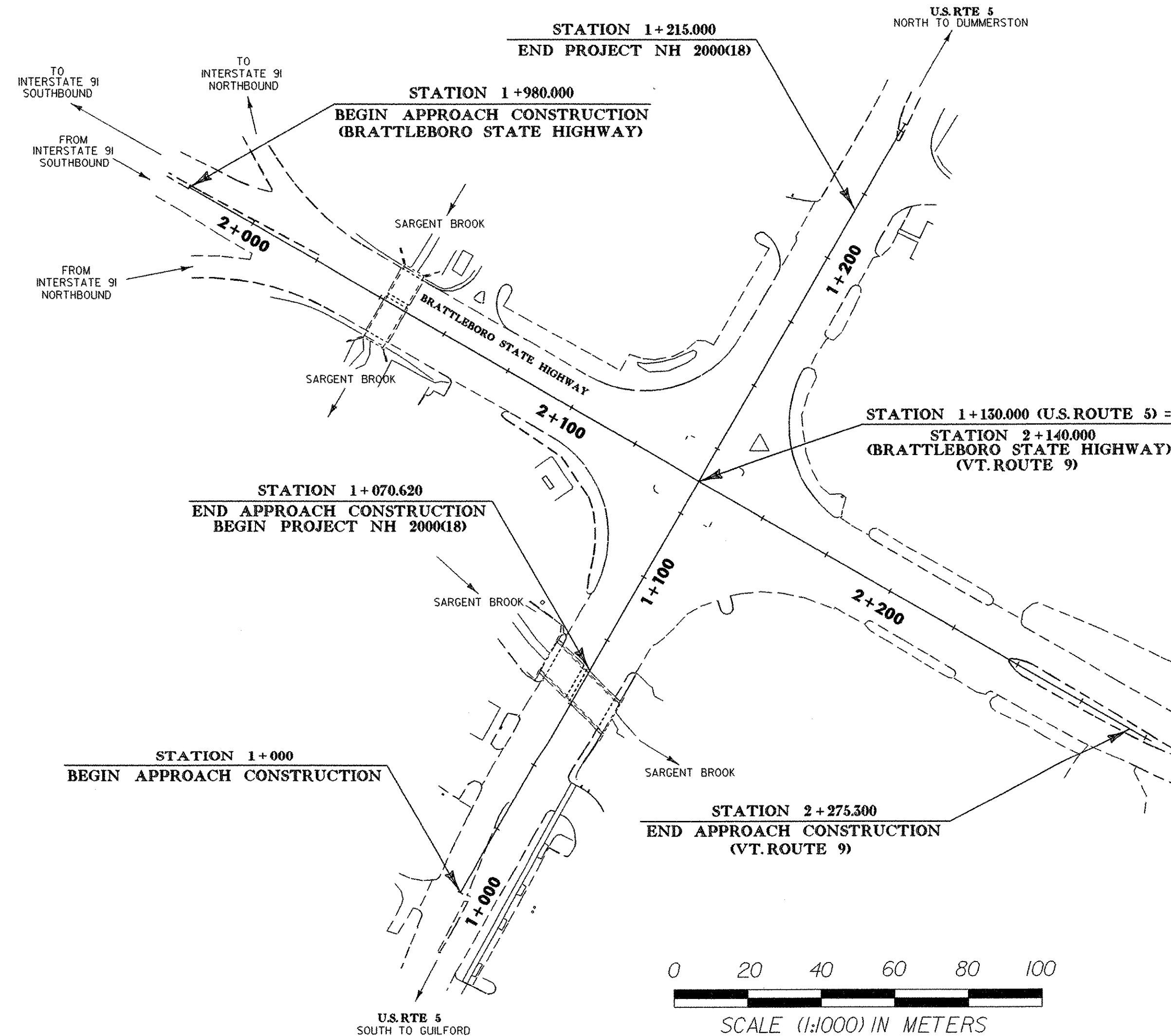
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.

U.S. ROUTE 5 & VT. ROUTE 9 & BRATTLEBORO STATE HIGHWAY  
(MINOR & PRINCIPAL ARTERIALS)

BEGINNING ON U.S. ROUTE 5 APPROXIMATELY 1.483 km SOUTH OF THE BRATTLEBORO/DUMMERSTON TOWN LINE AND EXTENDING NORTHERLY THROUGH THE U.S. RTE. 5 / VT. RTE 9 / BRATTLEBORO STATE HIGHWAY INTERSECTION FOR 144.38 m.

LENGTH OF ROADWAY = 144.38 m = 0.144 km  
LENGTH OF PROJECT = 144.38 m = 0.144 km

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE RECONSTRUCTION OF THE U.S.-5, VT.-9, BRATTLEBORO STATE HIGHWAY INTERSECTION WITH NEW PAVEMENT, SUBBASE, DRAINAGE, CURB, AND SIDEWALK



BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LIFE ESALS (DESIGN LANE)	12,065,400
DESIGN NUMBER OF GYRATIONS	109
PERFORMANCE GRADED ASPHALT BINDER	PG 70-28

**TRAFFIC DATA**

	U.S.-5 (SOUTH)	U.S.-5 (NORTH)	BRATTLEBORO STATE HWY. (WEST)	VT.-9 (EAST)
2000 ADT	20,290	15,520	14,360	15,000
2020 ADT	27,800	21,210	18,440	19,200
2020 ADTT	2,020	1,845	2,095	1,555
2020 DHV	2,520	2,230	1,855	1,925
2020 %T	2%	4%	8%	4%
20 YR ESALS	7,369,000	17,042,000	20,109,000	13,836,000
40 YR ESALS	21,413,000	50,41,000	66,550,000	45,693,000

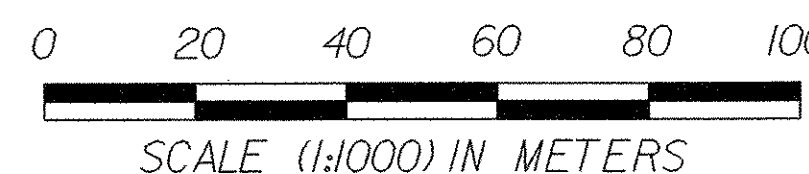
DESIGN SPEED = 70 km/h (ROADWAY)  
DESIGN SPEED = 35 km/h (ROUNDBOUT)

**CONVENTIONAL SIGNS**

COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○-○-○-○
POINT OF ACCESS	X
FENCE LINE	-x-x-
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	SR
SLOPE RIGHTS	○-△
TOP OF CUT	△
TOE OF SLOPE	○

**DATUM**

VERTICAL	NAVD88
HORIZONTAL	NAD83(92)



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 1995, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON AUGUST 21, 1995 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

REVISION 3-10-97 /sqdc/93/d91/dd91h1j  
dd91bdr.dgn

**Metric**

APPROVED [Signature] DATE 4/8/99  
DIRECTOR OF ENGINEERING

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
DIVISION ADMINISTRATOR

PROJECT **BRATTLEBORO  
NH 2000(18)**

SHEET 1 OF 67 SHEETS



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- 2. INDEX OF SHEETS
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- 4-7. QUANTITY SHEETS
- 8. ITEM DETAIL SHEET
- 9-10. DRAINAGE DETAIL SHEETS
- 11. EARTHWORKS SHEET
- 12. BLANK
- 13-19. R. O. W. DETAIL SHEETS
- 20. TIE SHEET
- 21-25. ROADWAY LAYOUT SHEETS
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- 28-32. DRAINAGE LAYOUT SHEETS
- 33. RADIAL ELEVATION SHEET
- 34. NEW WATER MAIN SHEET
- 35. CONCRETE SIDEWALK W/ CURB DETAIL SHEET
- 36. CONSTRUCTION APPROACH SIGNING SHEET
- 37. NEW TRAFFIC SIGN SHEET
- 38. NEW PAVEMENT MARKINGS SHEET
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- 47. SIGN DETAIL SHEET
- 48-49. STREET LIGHT DETAILS
- 50-51. PLANTING DETAIL SHEETS
- 52-67. CROSS SECTION SHEETS

## STANDARDS

B-5M	SLOPE GRADING, EMBANKMENTS, MUCK	06-13-97
B-71M	RESIDENTIAL AND COMMERCIAL DRIVES	06-13-97
C-1M	CURBS, BITUMINOUS CONCRETE SIDEWALKS GRANITE SLOPE EDGING VERTICAL GRANITE CURB PRECAST REINFORCED CONCRETE CURB CAST IN PLACE CONCRETE CURB BITUMINOUS CONCRETE CURB TREATED TIMBER CURB	06-13-97
C-2AM	CEMENT CONCRETE SIDEWALK, CONCRETE CURB	06-13-97
C-3M	SIDEWALK RAMPS	06-13-97
D-1M	PRECAST RCP DROP INLET REINFORCED CONCRETE PIPE D. I. W/ CAST IRON GRATE REINFORCED CONCRETE PIPE D. I. W/ CONCRETE COVER	06-13-97
D-2M	C. R. M. HEADWALLS, UNDERDRAIN C. R. M. HEADWALLS & RETAINING WALLS RIPRAP LIGHT TYPE SLOPE HEADWALL REINFORCED CONCRETE HEADWALL UNDERDRAIN & CARRIER PIPE CONSTRUCTION DETAILS	06-13-97
D-4M	FLUSHING BASINS, END SECTION, ELBOWS TYPICAL WATERFALL FOR CULVERTS UP TO AND INCLUDING 48' DIA. EXTENSION SERVICE BOX AND CURB STOP CORRUGATED PIPE ELBOW GRANULAR BORROW AT CULVERT LOCATIONS UNDERDRAIN FLUSHING BASIN CORRUGATED STEEL PIPE END SECTION CORRUGATED STEEL PIPE ARCH END SECTION	06-13-97

D-6M	REINF. CONCRETE DROP INLET W/GRATE (DITCHES)	06-13-97
D-8M	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE (BOTTOM SECTION) SEE SHEETS D-9,10,11 FOR TOP SECTION	06-13-97
D-9M	REINFORCED CONCRETE DROP INLET TOPS VERTICAL CURB & THROAT ADAPTER	06-13-97
D-11M	GRATES & COVERS (TYPE A)	06-13-97
D-15M	PRECAST REINF. CONC. MH-GRATES (BICYCLE SAFE) CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06-13-97
E-100M	CONSTRUCTION APPROACH SIGNS	06-13-97
E-110M	MAJOR MAINTENANCE OPERATION LANE CLOSURE	06-13-97
E-120M	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	06-13-97
E-121M	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	06-13-97
E-123M	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	06-13-97
E-131M	GUIDE SIGN DETAILS	06-13-97
E-135M	INTERSTATE ROUTE MARKER SIGN DETAIL	06-13-97
E-136AM	U. S. ROUTE MARKER SIGN DETAILS	06-13-97
E-136BM	STATE ROUTE MARKER SIGN DETAILS	06-13-97
E-136CM	STATE NUMBERED TOWN HIGHWAY SIGN DETAILS	06-13-97
E-142M	REGULATORY SIGN DETAILS	06-13-97
E-144M	REGULATORY SIGN DETAILS	02-02-98
E-146M	REGULATORY SIGN DETAILS	06-13-97
E-150M	WARNING SIGN DETAILS	06-13-97
E-160M	FLANGED CHANNEL STEEL SIGN POST	06-13-97
E-164M	SQUARE STEEL SIGN POST	06-13-97
E-173M	PULL BOXES AND JUNCTION BOXES	06-13-97
E-175M	POWER DROP STANCHION	06-13-97
E-180AM	STREET LIGHTING DETAILS	06-13-97
E-180BM	STREET LIGHTING DETAILS	06-13-97
E-181M	TYPICAL BRIDGE MOUNTING DETAILS FOR STREET LIGHT POLE	06-13-97
E-191M	PAVEMENT MARKING DETAILS	06-13-97
E-192M	PAVEMENT MARKING DETAILS	10-13-98
E-193M	PAVEMENT MARKING DETAILS	06-13-97
G-1DM	STEEL BEAM GUARDRAIL (40MPH & LESS) HEAVY DUTY STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER ANCHOR FOR STEEL BEAM RAIL	06-13-97
J-1M	PROJECT AND BOUNDARY MARKERS	06-13-97
T-1M	TEMPORARY EROSION CONTROL DETAILS	06-13-97
T-2M	TEMPORARY EROSION CONTROL DETAILS	06-13-97

PROJECT NAME :	PROJECT NO. :
BRATTLEBORO	NH 2000(18)
DESIGN FILE NAME: /sqdc/93dl9l/ddl9lfrm.dgn	PLOT DATE: 20-APR-1999
IPARM FILE NAME: ddl9lind.t	SURVEYED BY:
SURVEYED BY:	SURVEY DATE:
SQUAD LEADER: MENARD	DRAWN BY: SQUAD C
	SHEET: 2 OF 67

# TYPICAL SECTIONS

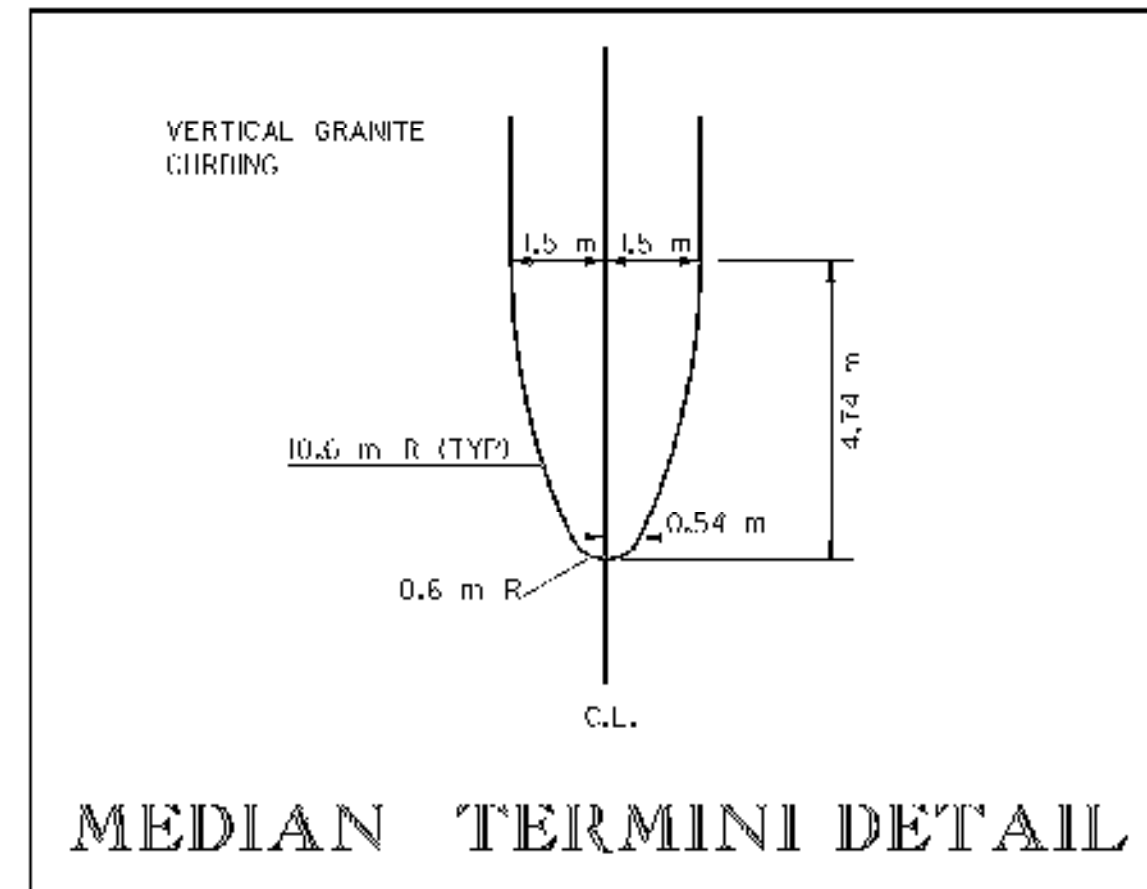
(ALL DRAWINGS NOT TO SCALE)

## SEEDING FORMULA URBAN AREAS

% WT.	kg/ha	NAME	PUR %	GERM %
42.5	38.0	CRLLIPING HLD 1LSCUL	98	85
10.0	9.0	PERENNIAL RYE GRASS	95	90
42.5	38.0	KENTUCKY BLUE GRASS	85	85
5.0	5.0	ANNUAL RYE GRASS	95	85
100.0	90.0			

### GENERAL NOTES

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.
- FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 10-10-10 FORMULA).
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha, 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 INDICATED OR AS DIRECTED BY THE ENGINEER.
- SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.
- PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D-2M.
- TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.0675 L/m<sup>2</sup> BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

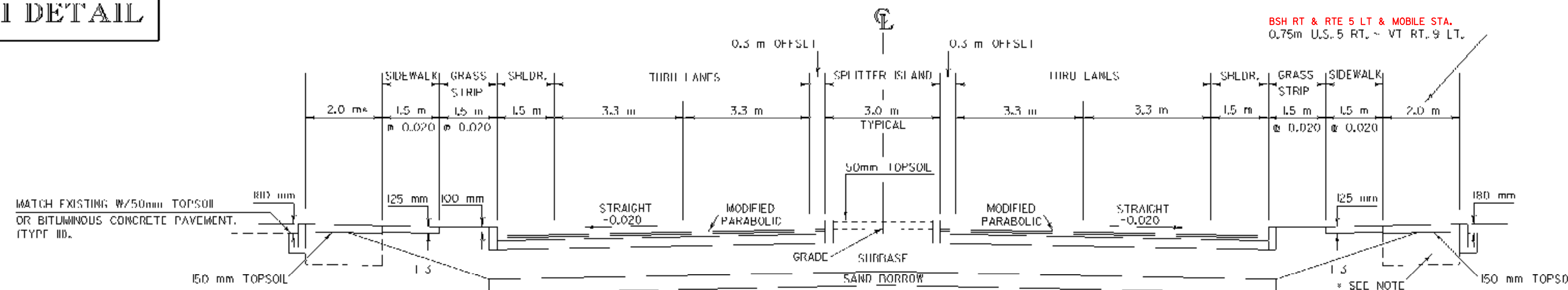


MATERIAL	ALL LEGS AND CIRCULATING ROADWAY
BITUMINOUS CONCRETE PAVEMENT (TYPE III)	50 mm
BITUMINOUS CONCRETE PAVEMENT (TYPE II)	75 mm
BITUMINOUS CONCRETE PAVEMENT (TYPE I)	150 mm (2-15mm LIFES)
SUBBASE OF DENSE GRADED CRUSHED STONE	600 mm
SAND BORROW	250 mm

ASPHALT BINDER TO BE PG 70-28

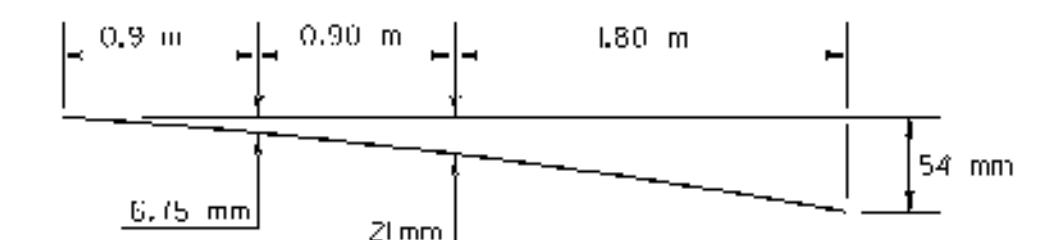
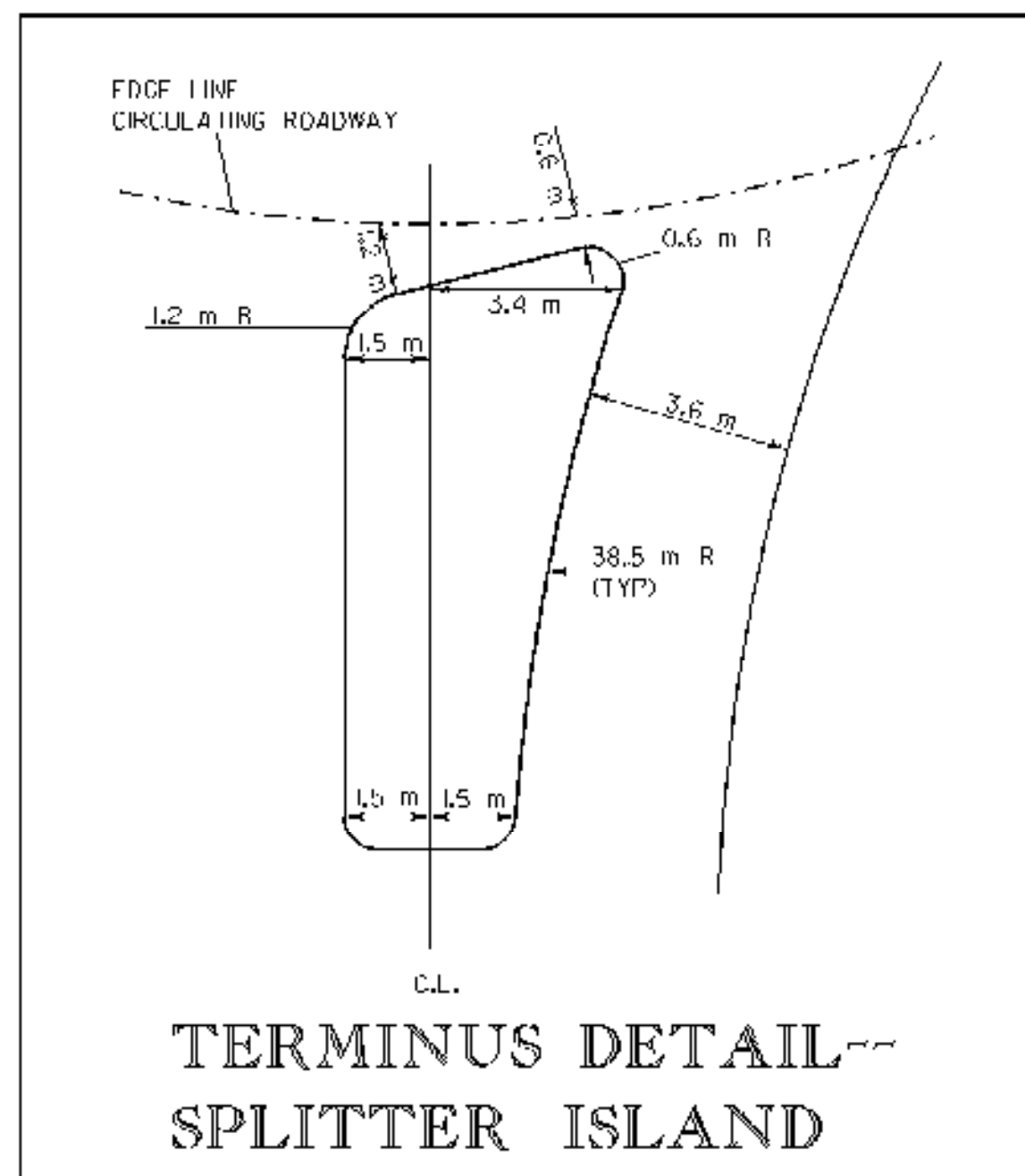
### THICKNESS TOLERANCES

PAVEMENT (TOTAL DEPTH) - 5 mm  
SUBBASE - 30 mm  
SAND BORROW - 30 mm



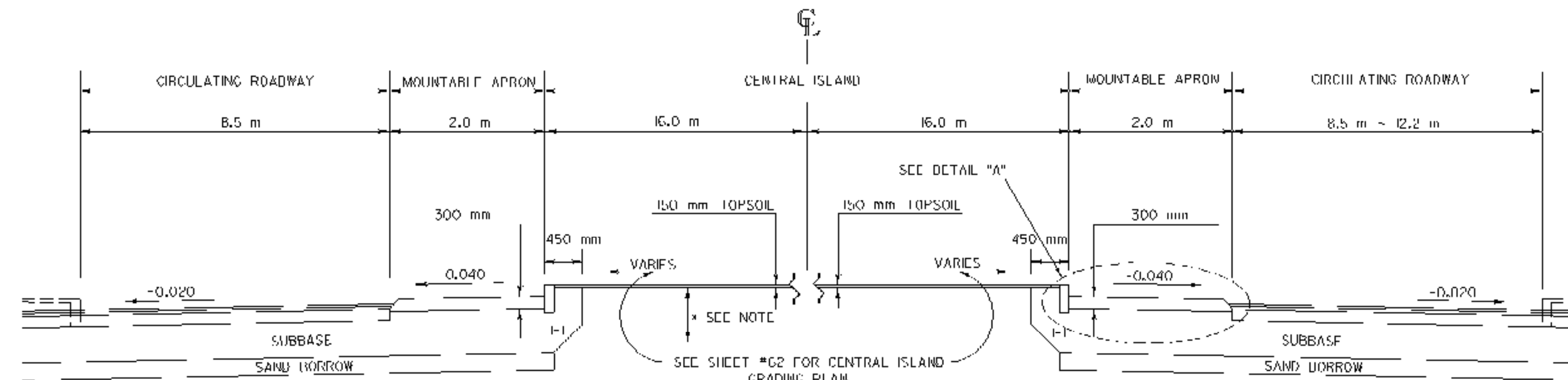
\*1.4 m U.S. 5 LT ~ B.S.H. RT

## FOUR LANE SECTION WITH SIDEWALK

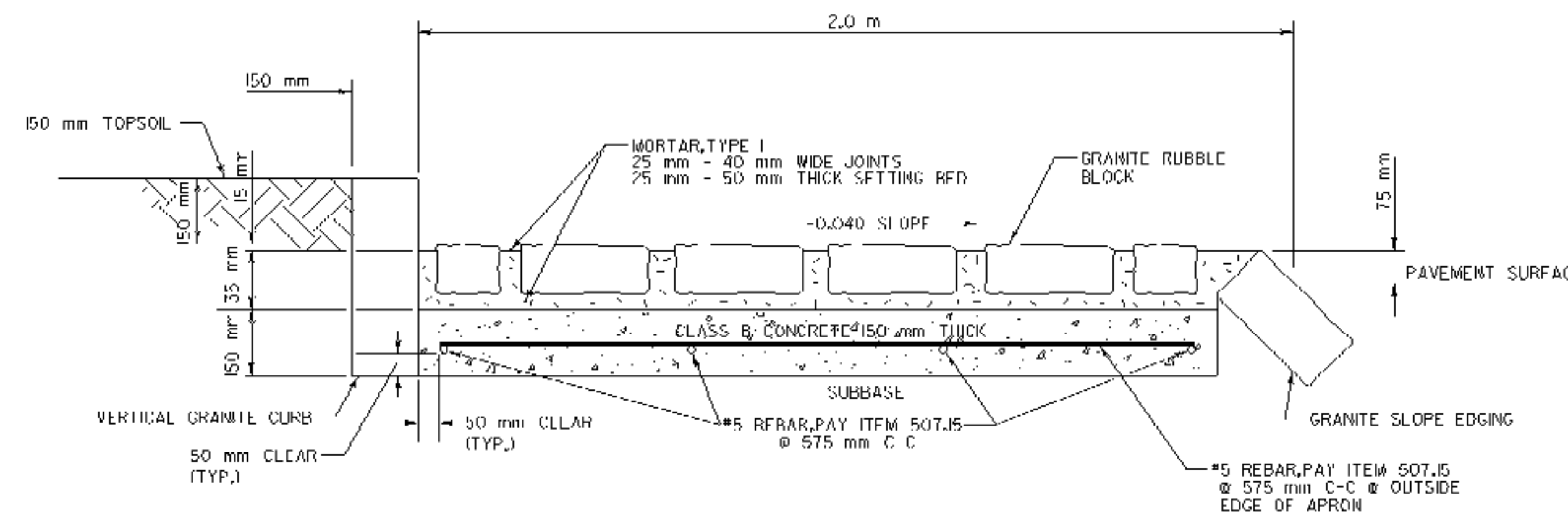
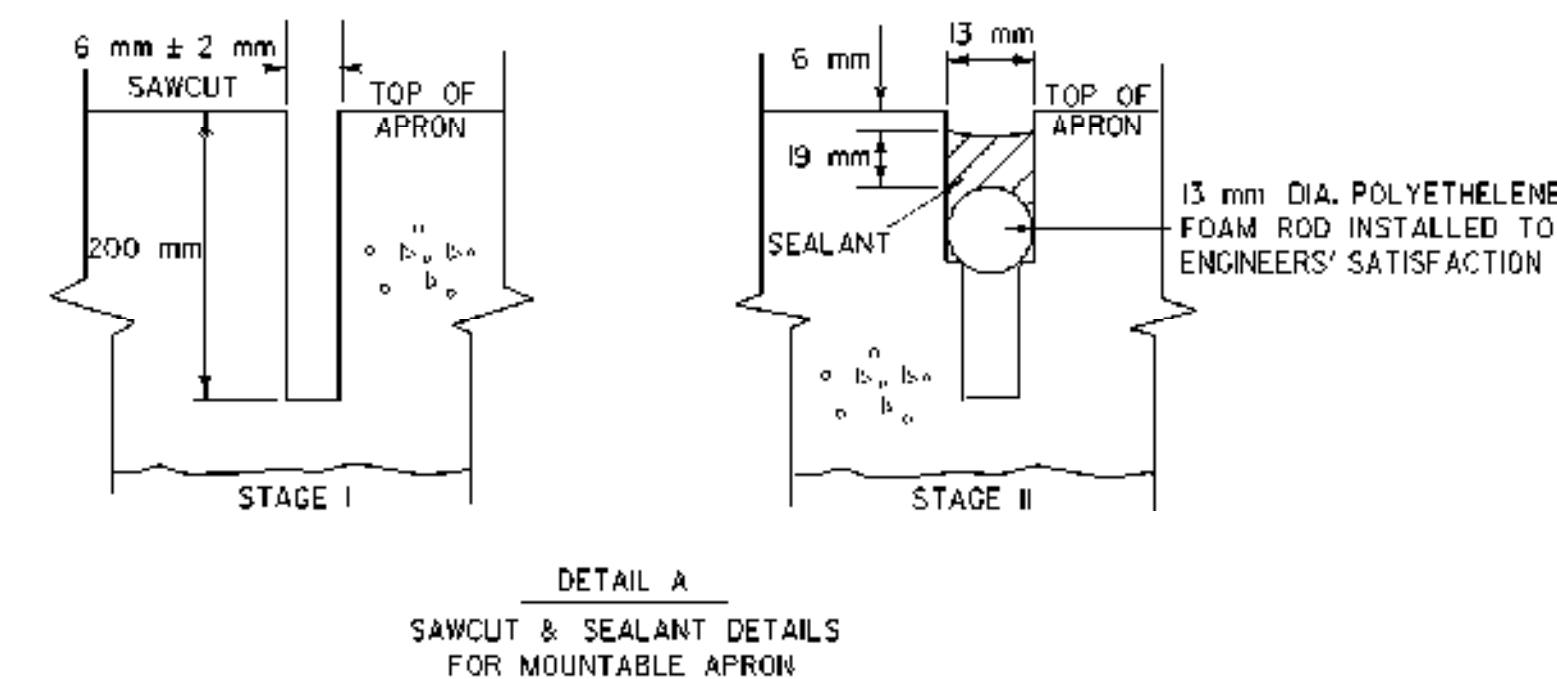


## MODIFIED PARABOLIC DETAIL

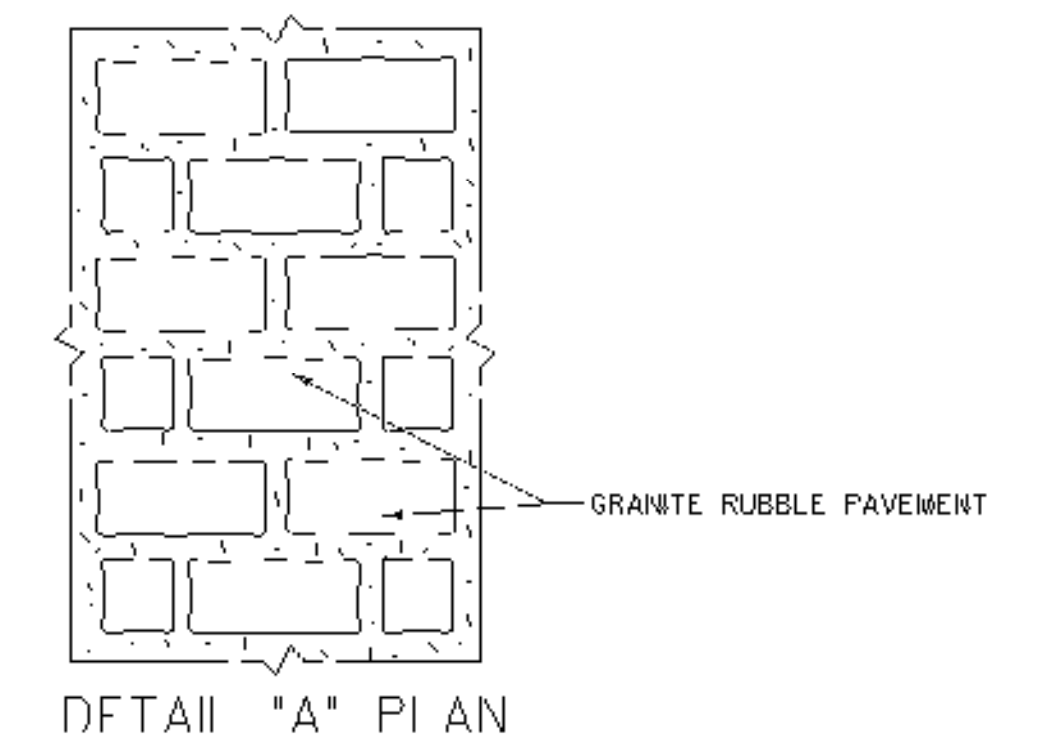
- NOTE: ALL EXISTING PAVEMENT AND SUBBASE WITHIN 1m OF EXISTING GRADE WITHIN CENTRAL ISLAND & THREE INTERSECTION RADII WHERE TREES ARE TO BE PLANTED, SHALL BE REMOVED AND REPLACED WITH EARTH BORROW COVERED WITH 150 mm OF TOPSOIL.



## CIRCULATING ROADWAY SECTION



## DETAIL OF GRANITE RUBBLE PAVEMENT



- NOTES:
- 1. LAY BLOCKS TRANSVERSE TO DIRECTION OF TRAVEL.
- 2. GRANITE RUBBLE BLOCKS SHALL BE 100 mm x 300 mm IN LENGTH AND 90 mm x 15 mm IN WIDTH AND DEPTH.
- 3. ALL WORK TO CONSTRUCT GRANITE RUBBLE PAVT. APRON UPON CONCRETE CLASS B BASE WILL BE PAID UNDER ITEM 618.20 - BRCK PAVING (MOD.).
- 4. APRON SHALL BE SAWCUT & SEALED FOR FULL WIDTH AS PER DETAIL @ 45° INTERVALS AROUND CIRCLE. PAYMENT TO BE MADE UNDER ITEM 524J5 (MOD.).

DATUM  
VERTICAL NAVD88  
HORIZONTAL NAD83(92)

**ARCHIVED  
IN DPR**

PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	sqdc/93dl9l/ddl9lxs1.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	ddl9ltp1	SURVEY DATE:	10/95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. LIPMAI
SQUAD LEADER:	S. MENARD	SHEET:	3 OF 67
REVISED:	3-10-97		

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

# QUANTITY SHEET



### SUMMARY OF ESTIMATED QUANTITIES

	FULL E&C	LANDSCAPING	UTILITIES NON-GOVT. PARTICIPATING	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
		18				18	EA	REMOVING MEDIUM TREES	201.15	-
					8200	8200	m³	COMMON EXCAVATION	203.15	25
					50	50	m³	SOLID ROCK EXCAVATION	203.16	EST.
					750	750	m³	EARTH BORROW	203.30	EST.
					1500	1500	m³	SAND BORROW	203.31	-
					7150	7150	m²	FINE GRADING - SUBGRADE	203.40	-
					1050	1050	m³	TRENCH EXCAVATION OF EARTH	204.20	7
					45	45	m³	TRENCH EXCAVATION OF ROCK	204.21	3.1
					900	900	m²	COLD PLANING - BIT. PAVEMENT	210.10	-
					50	50	m³	EXCAVATION OF CLASS I CONTAMINATED SOILS	215.20	EST.
					4100	4100	m³	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	88
					1616	1616	kg	EMULSIFIED ASPHALT	404.65	-
					3150	3150	+	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 70-28)	406.30	100
					25	25	m³	CONCRETE, CLASS B	501.25	4.08
					2300	2300	kg	REINFORCING STEEL	507.15	26
					16	16	m	JOINT SEALER, PREF NEOPRENE (MOD.)	524.15	-
					12	12	m	450 mm RCP CL 111	601.0815	-
								** BEGIN OPTION PIPES **		
					254	254	m	450 mm RCP CL 111	601.0815	-
					254	254	m	450 mm CPEP (SL)	601.2615	-
					38	38	m	600 mm CAAP 2.0 mm (67 mm X 13 mm)	601.0226	-
					38	38	m	600 mm PCCSP 1.7 mm (67 mm X 13 mm)	601.0425	-
					38	38	m	600 mm CPEP	601.0920	-
								** END OPTION PIPES **		
					30	30	m	CLEANING CULVERT PIPE IN PLACE (0-600mm DIA. INCLUSIVE)	601.995	EST.
					2	2	EA	CHANGE ELEV. OF DI, CB, OR MH	604.40	-
					2	2	EA	REHABILITATION OF DROP INLETS, CATCH BASINS OR MANHOLES	604.41	EST.
			5		5	5	EA	CHANGING ELEVATION OF SEWER MANHOLE	604.42	-
					1	1	EA	CAST IRON GRATE W/ FRAME, TYPE A	604.45	-
					8	8	EA	CAST IRON GRATE W/ FRAME, TYPE D	604.47	-
					1	1	EA	CAST IRON COVER W/FRAME	604.55	-

### DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
2433	m³	U.S. RTE. 5
3073	m³	VT. RTE. 9
2435	m³	CIRCULAR ROADWAY
25	m³	ROUNDING
8200	m³	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
1398	m³	U.S. RTE. 5
1785	m³	VT. RTE. 9
829	m³	CIRCULAR ROADWAY
88	m³	ROUNDING
4100	m³	TOTAL
		TRENCH EXCAVATION OF EARTH
593	m³	DESIGNED DRAINAGE
475	m³	UNDERDRAIN
25	m³	EXPLORATION
7	m³	ROUNDING
1050	m³	TOTAL

### DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		BITUMINOUS CONCRETE PAVEMENT
1031	+	U.S. RTE. 5 - NORTH & SOUTH
1419	+	BRAT. ST. HWY. & VT. RTE. 9
600	+	CIRCULAR ROADWAY
100	+	ROUNDING
3150	+	TOTAL
		TEMPORARY EROSION CONTROL
2	m³	STONE FILL, TYPE I
200	m²	GEOTEXTILE FABRIC FOR SILT FENCE
5	kg	SEED
10	kg	SEED--WINTER RYE
25	kg	FERTILIZER
0.5	+	AGRICULTURAL LIMESTONE
0.2	+	HAY MULCH
20	EA	HAY BALES

PROJECT NAME :	PROJECT NO. :
BRATTLEBORO	NH 2000 (18)
DESIGN FILE NAME: /sqdc/93d191/dd191frm.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191qsl.i	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD C
SQUAD LEADER: MENARD	SHEET: 4 OF 67
REVISED 5-15-97	











STATE OF VERMONT  
AGENCY OF TRANSPORTATION

# DRAINAGE DETAIL SHEET

## DRAINAGE STRUCTURES

STATION km + m	STATION km + m	POS.	PIPE #	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS							PIPE ELBOW NO. DEG	S EA	CB EA	P RCDI	DEPTH DI mm	CONC CL B m <sup>3</sup>	REINF STEEL kg	DI GRATE TYPE	CHAN ELEV EA	CRM m <sup>3</sup>	TRENCH EXCAVATION		COMM EXC m <sup>3</sup>	UNC CHAN EXC m <sup>3</sup>	STRUCT EXCAV m <sup>3</sup>	GRAN BK FILL STRUCT m <sup>3</sup>	GRAN BORR m <sup>3</sup>	EROS MATT m <sup>2</sup>	STONE FILL		MARKER POSTS		C.I. COVER	REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL mm	CPEP mm	EARTH m <sup>3</sup>											ROCK m <sup>3</sup>	m <sup>3</sup>							m <sup>3</sup>	m <sup>2</sup>	m <sup>3</sup>	TYPE		
U. S. 5 1+062.7	1+104.2	RT-LT	①																																				REMOVE EXISTING PIPE & D. I.				
1+062.7	1+090.0	RT-LT	①							600	38	1.7	2.0																									STONE FILL PAD (TYPE 11) @ OUTLET					
1+090.6	1+103.4	LT	②							450	14																											1.2 X 1.2 RCDI W/ C. I. COVER					
1+102.8	1+104.1	LT	②																																			REMOVE EXISTING PIPE & D. I.					
B. S. H. 2+112.0	1+103.7	RT-LT	③							450	19																																
1+104.7	1+117.4	LT	③																																			REMOVE EXISTING PIPE & D. I.					
1+118.0	1+123.4	LT	④																																			REMOVE EXISTING PIPE & D. I.					
B. S. H. 2+101.5	2+111.9	LT-RT	④							450	24																																
1+124.1	1+140.0	LT	⑤																																			REMOVE EXISTING PIPE & D. I.					
1+140.0		LT	⑥																																			REMOVE EXISTING PIPE & D. I.					
1+140.8	1+152.1	LT	⑦																																			REMOVE EXISTING PIPE & D. I.					
1+152.4	1+153.4	LT	⑧																																			REMOVE EXISTING PIPE & D. I.					
1+152.6	1+181.8	LT	⑨																																			REMOVE EXISTING PIPE & D. I.					
1+157.8	1+167.5	RT-LT	⑩							450	24																																
1+167.5	1+238.7	LT	⑪							450	71																																
1+182.6	1+238.6	LT	⑫																																			REMOVE EXISTING PIPE & D. I.					
1+238.8	1+239.4	LT-RT	⑬																																			RETAIN EXISTING PIPE & D. I.					
1+239.6	1+240.0	RT	⑭																																			RETAIN EXISTING PIPE & D. I.					
1+239.2		LT	⑮																																			RETAIN EXISTING PIPE & D. I.					
TOTALS										450	152																																
										600	38	1.7	2.0																														

PROJECT NAME : BRATTLEBORO PROJECT NO. : NH 2000 (18)

DESIGN FILE NAME: /sqdc/93d191/dd191frm.dgn PLOT DATE: 8-APR-1999

IPARM FILE NAME: dd191d01.i SURVEYED BY: SURVEY DATE:

SQUAD LEADER: MENARD DRAWN BY: SQUAD C

REVISED 3-7-97 SHEET: 9 OF 67





B L L A N K



**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	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1A	THE ELLIS ROBERTSON CO. INC. - LESSOR ELXSI - LESSEE	10,11, 13	RTE. 5 1+085.3 RT. RTE. 5 1+057.8 RT. RTE. 5 1+061.8 RT. RTE. 5 1+062.0 RT. RTE. 5 1+082.4 RT. RTE. 5 1+080.0 RT. RTE. 5 1+102.5 RT.	RTE. 9 2+226.7 RT. RTE. 5 1+072.0 RT. RTE. 5 1+067.7 RT. RTE. 9 2+228.8 RT. RTE. 5 1+104.8 RT.	0.03HA±		CONST. (T) 77 SM± DITCH & DRAINAGE (P) CULVERT (P) CONST. (T) 0.03 HA± DRIVE (T) REMOVE (T)			BRATTLEBORO			0.07A± 829 S.F. ±  0.07A± 9M (29.5') PAVED MP 0458 CURB & TREE	1	8,10 11,13	PARCEL NO. 1 ELLIS ROBERTSON CO. INC., ADD ELXSI AS LESSEE. PER C.O. 8948.	02-10-98	W. L. G.	L. W. B.
1B		10,11, 13	RTE. 5 1+043.1 CL	RTE. 9 2+239.8 CL	0.26HA±		ALL R. T. & I.						U.S. RTE. 5 & VT. RTE. 9 RIGHT OF WAY 0.65A±	2	8,12	PARCEL NO. 3 TARMY-PIZZA HUT, ADD REMOVE & RESET (T) FOR LIGHT & APPURTENANCES. PER C.O. 8953.	03-12-98	W. L. G.	L. W. B.
2A	THE ELLIS ROBERTSON CO. INC. - LESSOR ROUNTREE MOTORS, INC. D/B/A/ BRATTLEBORO FORD-MERCURY- LESSEE	11,13, 14	RTE. 9 2+187.3 LT. RTE. 9 2+216.0 LT. RTE. 9 2+189.5 LT. RTE. 5 1+187.5 RT. RTE. 5 1+202 RT.	RTE. 5 1+197.7 RT.	54 SM±		REMOVE & RESET (T) REMOVE & RESET (T) REMOVE & RESET (T)			BRATTLEBORO			580 S.F. ± LIGHT & POLE LIGHT & POLE LIGHT & POLE DRIVE 9.5M (31.2') PAVED MP 0466	3	8	PARCEL NO. 4 MOBIL OIL, ADD TO DETAIL SHEET BSH 2+085.1 RT. REMOVE & RESET (T), REMARKS YARD LIGHT. PER C.O. 8966.	05-18-98	W. L. G.	L. W. B.
2B		11,13, 14	RTE. 9 2+235.6 CL	RTE. 5 1+211.8 CL	0.22HA±		ALL R. T. & I.						U.S. RTE. 5 & VT. RTE. 9 RIGHT OF WAY 0.54A±	4	8,11, 14	PARCEL NO. 3 PIZZA HUT. REMOVE ALL CONSTRUCTION EASEMENTS. PER C.O. 8969.	06-02-98	M. J. R.	L. W. B.
3A	THE JACK TARMY REVOCABLE TRUST, JANUARY 22, 1982 - LESSOR VT. PIZZA HUTS, INC. - LESSEE	11,12, 14	RTE. 5 1+163.7 LT. RTE. 5 1+190.5 LT. RTE. 5 1+194.3 LT. RTE. 5 1+202 LT. BSH 2+063.2 LT. BSH 2+064 LT. BSH 2+070.8 LT.	RTE. 5 1+194.3 LT. RTE. 5 1+196.2 LT.  BSH 2+073 LT. BSH 2+074.3 LT.	27.5 SM±		SLOPE (T) 2.2 SM± REMOVE & RESET (T)  DRIVE (T) REMOVE & RESET (T) INSTALL (T)			BRATTLEBORO			296 S.F. ± 23.7 S.F. ± CURB DRIVE VARIES PAVED MP 0466 PAVED 12M (39.4') MP 0009 LIGHT & APPURTENANCES CURB	5	8	PARCEL NO. 2 ELLIS ROBERTSON CO. INC. NOTE ON DETAIL SHEET RTE. 5 1+202 RT. 9.5M (31.2') DRIVE PAVED MP 0466. PER C.O. 8979	07-09-98	W. L. G.	L. W. B.
3B		11,12, 14	BSH 2+051.7 CL	RTE. 5 1+211.8 CL	0.24HA±		ALL R. T. & I.						U.S. RTE. 5 & VT. RTE. 9 RIGHT OF WAY 0.59A±	6	8,11 12,13	PARCEL NO. 3 PIZZA HUT. NOTE ON DETAIL SHEET RTE. 5 1+202 LT. WIDTH VARIES PAVED MP 0466. ADD 'S' ON HUT ON DETAIL SHEET. LAYOUT SHEETS 11,12, & 14 ADD 'VERMONT' AND 'S' TO PIZZA HUT FOR LESSEE PER C.O. 8980.	07-08-98	W. L. G.	L. W. B.
4A	MOBIL OIL CORPORATION	10,11, 12	RTE. 5 1+091.1 LT. RTE. 5 1+087.8 LT. RTE. 5 1+102.8 LT. ± BSH 2+085.1 RT.	BSH 2+093.5 RT. BSH 2+082.7 RT.	53.5 SM±		CONST. (T) 0.01 HA± REMOVE (T) REMOVE & RESET (T)			BRATTLEBORO			575 S.F. ± 0.03A± DROP INLET & CULVERT YARD LIGHT	7	9,11	REMOVE RELINQUISHMENTS FROM PROJECT. PER C.O. 8991.	08-25-98	M. J. R.	L. W. B.
4B		10,11, 12	RTE. 5 1+068.2 CL	BSH 2+061.2 RT.	0.18HA±		ALL R. T. & I.						U.S. RTE. 5 & VT. RTE. 9 RIGHT OF WAY 0.45A±	8	8,11 14	PARCEL NO. 2 ELLIS ROBERTSON CO., INC. PULL IN ACQUISITION NEEDS TO NEW LIMITS. REDUCE TAKING TO 54 SM± (580 S.F. ±). DELETE REMOVE & RESET AT RTE. 9 STA. 2+175.5 RT, RTE. 9 STA. 2+166.2 RT & RTE. 5 STA. 1+157.0 RT. PER C.O. 9027.	02-22-99	R. M. W.	L. W. B.
														9	8,11 13,14	PARCEL NO. 2 ELLIS ROBERTSON CO., INC. CHANGE NAME TO INCLUDE LESSEE: ROUNTREE MOTORS, INC. D/B/A/ BRATTLEBORO FORD-MERCURY. REMOVE CONST. (T). PER C.O. 9028.	02-24-99	R. M. W.	L. W. B.

2000018 100 1804 FJM  
ACCT.root  
/p/prop/93d19l/rd19lcd.dgn  
DATE PLOTTED 8-APR-1999  
rd19lcd.l

DR. (P)- DRAINAGE RIGHT  
DIT. (P)- DITCHING RIGHT  
CH. (P)- CHANNEL RT.  
DRIVE (T)- DRIVE RIGHT  
CUL. (P)- CULVERT RIGHT  
[W]- WATER SOURCES

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

LEGEND . . . . . CZ (P) . . . . . CLEAR ZONE  
--- CONST. (T) --- CONSTRUCTION EASEMENT  
SR SR SLOPE RIGHTS  
P P PROPERTY LINE  
L L TOP OF CUT  
△ △ TOE OF SLOPE

REVISED 02-22-99  
APPROVED: LAWRENCE W. BLISS DATE: 09-22-97  
AGENT D, PLANS & TITLES

R. O. W. PLANS  
BRATTLEBORO  
NH 2000(18)  
R. O. W. SHEET 8 OF 14 SHEETS  
SHEET 13 OF 67



**TABLE OF PROJECT PROPERTY ACQUISITION**

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

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
5	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY							
6	NEW ENGLAND TELEPHONE AND TELEGRAPH D/B/A BELL ATLANTIC-NEW ENGLAND												UTILITY							
7	WARNER CABLE OF BRATTLEBORO, INC.												UTILITY							
8	TOWN OF BRATTLEBORO FIRE DEPARTMENT												UTILITY							
9	TOWN OF BRATTLEBORO PUBLIC WORKS DEPARTMENT												UTILITY							
													10M (32.8') TO 15M (49.2') RADIUS FROM INTERSECTION OF RTE. 5 & RTE. 9 SURVEY CENTERLINES							

2000018 100 1804 FJM

DR. (P)- DRAINAGE RIGHT  
DIT. (P)- DITCHING RIGHT  
CH. (P)- CHANNEL RT.  
DRIVE (T)- DRIVE RIGHT  
CUL. (P)- CULVERT RIGHT  
[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
 
  
 . . . . . CZ (P) . . . . . CLEAR ZONE  
 --- CONST. (T) --- CONSTRUCTION EASEMENT  
 --- SR --- SLOPE RIGHTS  
 --- P --- PROPERTY LINE  
  
  
 TOP OF CUT  
  
 TOE OF SLOPE

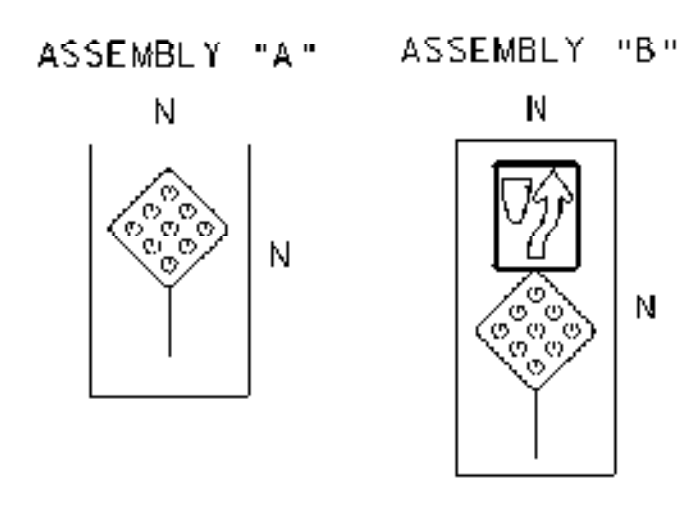
REVISED 02-22-99

APPROVED: LAWRENCE W. BLISS DATE: 09-22-97  
AGENT D, PLANS & TITLES

R. O. W. PLANS

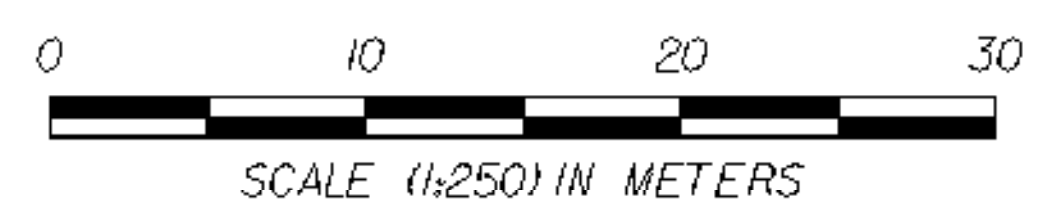
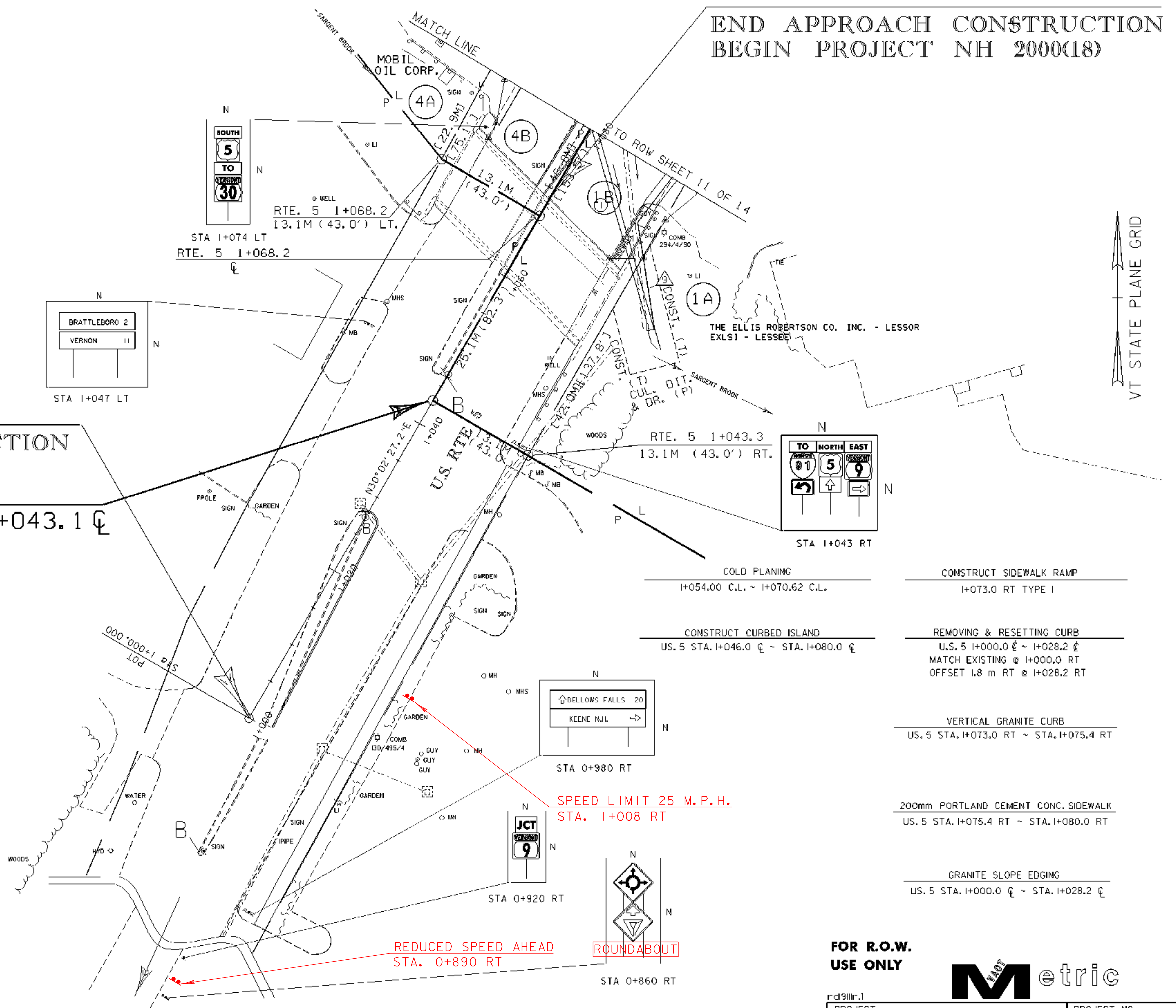
BRATTLEBORO  
NH 2000(18)  
R. O. W. SHEET 9 OF 14 SHEETS  
SHEET 14 OF 67

- NEW DRAINAGE**
- ① I+062.70 RT ~ I+091.35 LT  
NEW 600 mm X 38 m PCCPSP, CAAP, RCP CL III CPEP(SL)  
NEW 1.2 X 1.2 M.H. w/ C.I. COVER @ INLET
- EXISTING DRAINAGE**
- ① U.S. 5 I+062.70 RT ~ I+044.19 LT  
REMOVE EXISTING 460 mm RCP & DI
- UNDERDRAIN**
- ① U.S. 5 I+063 RT ~ I+073.3 RT  
NEW 150 mm X 13m CARRIER



STATION 1+000.00  
 BEGIN APPROACH CONSTRUCTION  
 BEGIN ROW PROJECT  
 NH 2000(18) STA RTE. 5 1+043.1 CL

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

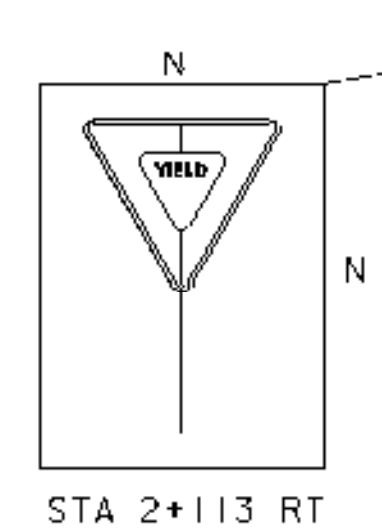
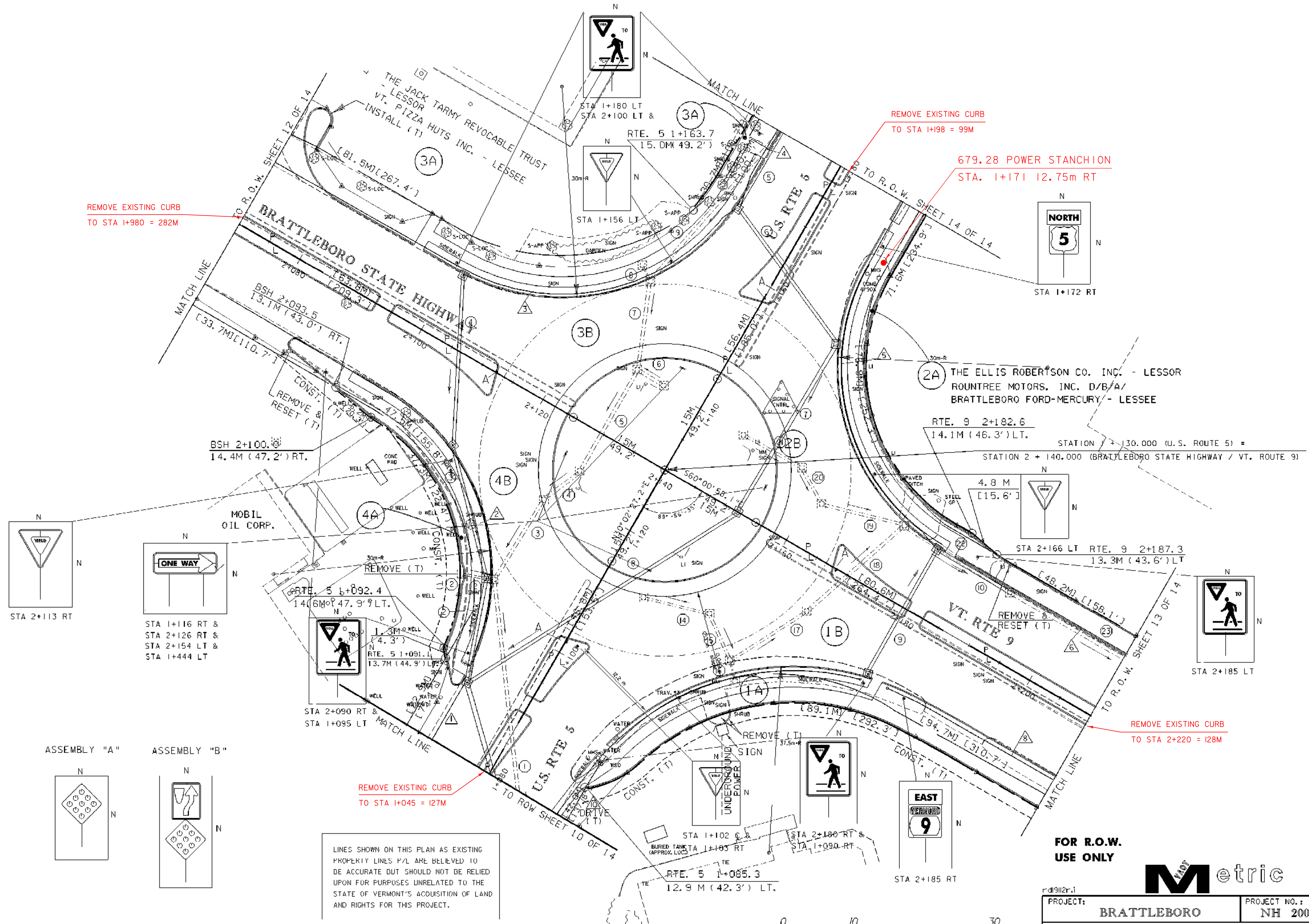


**FOR R.O.W. USE ONLY**

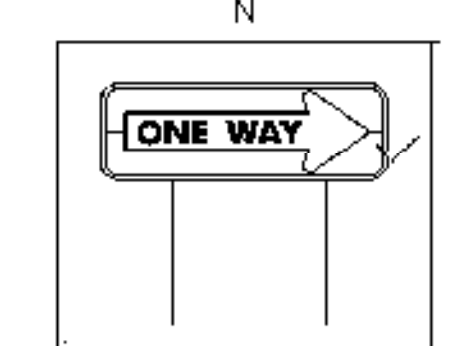
**Metric**

PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: /prop/93d91/rd191zz.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191r11	SURVEY DATE: 10-95
SURVEYED BY: R. GILMAN	DRAWN BY: K. UPMAL
SQUAD LEADER: S. MENARD	R. O. W. SHEET 10 OF 14
	SHEET 15 OF 67

VT STATE PLANE GRID

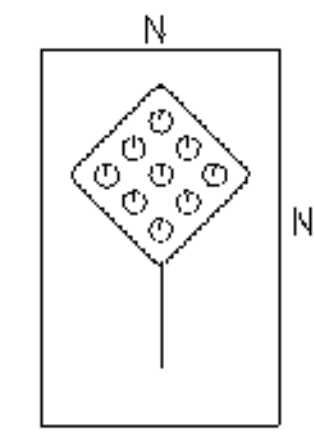


STA 2+113 RT

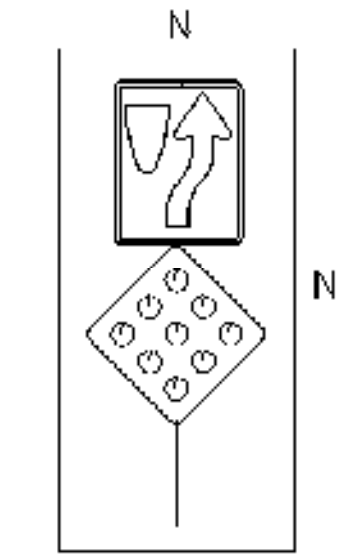


STA 1+116 RT & STA 2+126 RT & STA 2+154 LT & STA 1+444 LT

ASSEMBLY "A"



ASSEMBLY "B"



REMOVE EXISTING CURB TO STA 1+045 = 127M

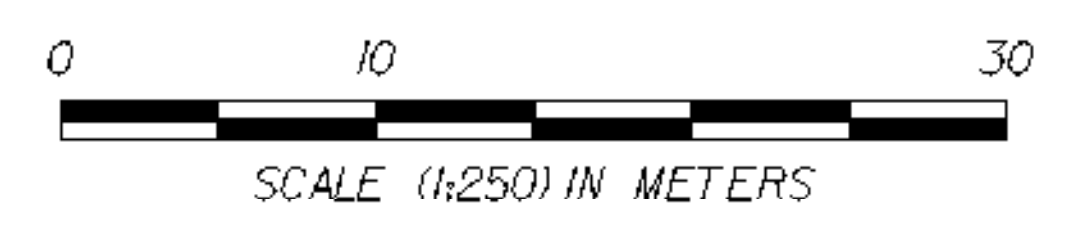
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

REMOVE EXISTING CURB TO STA 1+198 = 99M

679.28 POWER STANCHION STA. 1+171 12.75m RT

REMOVE EXISTING CURB TO STA 2+220 = 128M

FOR R.O.W. USE ONLY



SCALE (1:250) IN METERS

PROJECT: <b>BRATTLEBORO</b>		PROJECT NO.: <b>NH 2000(18)</b>
DESIGN FILE NAME: /prop/93d191/r/d191zzz.dgn		PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191r12.1		SURVEY DATE: 10-95
SURVEYED BY: R. GILMAN		DRAWN BY: K. UPMAL
SQUAD LEADER: S. MENARD		
R. O. W. SHEET 11 OF 14		SHEET 16 OF 67

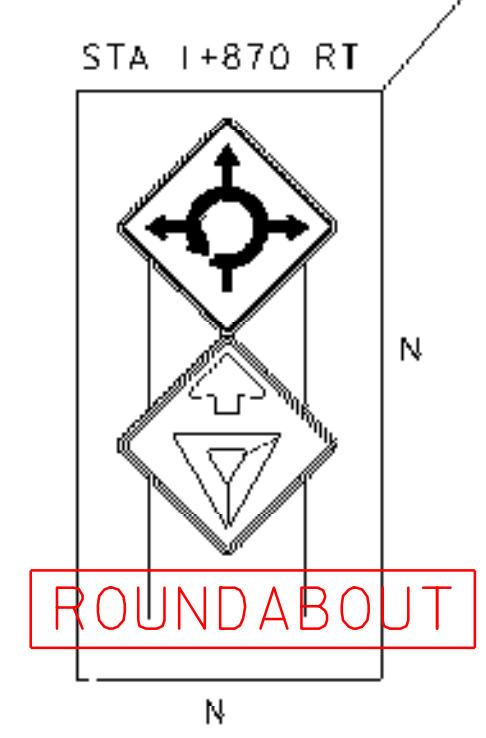
THE ELLIS ROBERTSON CO. INC. - LESSOR  
EXLSI - LESSEE

TO SOUTHBOUND INTERSTATE 91  
FROM INTERSTATE 91 SOUTHBOUND

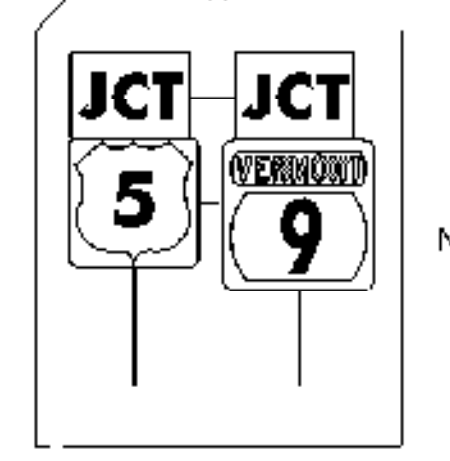
10 INTERSTATE 91 NORTHBOUND

REDUCED SPEED AHEAD  
STA. 1+893 RT

SPEED LIMIT 25 M.P.H.  
STA. 1+970 RT

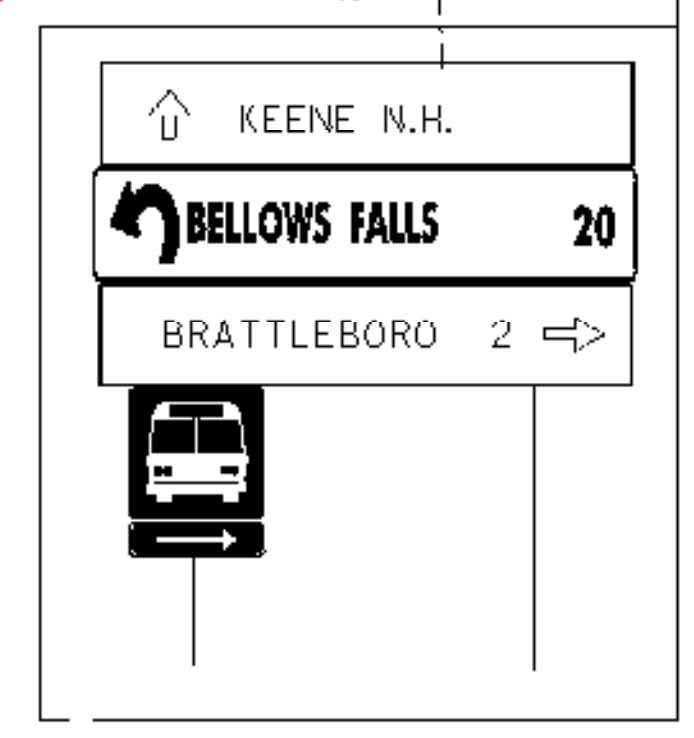


ROUNDABOUT



STA 1+930 RT

REDUCED SPEED AHEAD  
STA. 1+980 RT



STA 1+990 RT

SPEED LIMIT 25 M.P.H.  
STA. 1+995 RT

LINES SHOWN ON THIS PLAN AS EXISTING PROBABLY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

CONSTRUCT DRIVE  
2+063.2 LT  
(REMOVE EXISTING ISLAND PAID UNDER ITEM 203.15)

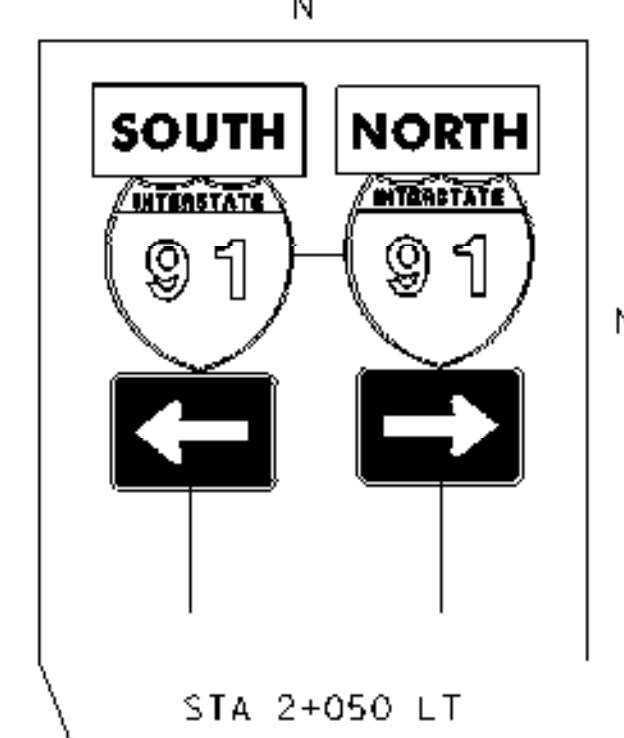
VERTICAL GRANITE CURB  
BRAT. ST. HWY. STA. 2+048.0 RT ~ STA. 2+068.4 RT  
BRAT. ST. HWY. STA. 2+069.6 LT ~ STA. 2+070.0 LT

GRANITE SLOPE EDGING  
BRAT. ST. HWY. STA. 1+980.0 C ~ STA. 2+020.0 C  
BRAT. ST. HWY. STA 2+020 STOP SLOPE EDGING, BEGIN TRANSITION TO VERTICAL GRANITE CURB  
BRAT. ST. HWY. STA 2+050 END TRANSITION, BEGIN VERTICAL GRANITE CURB.

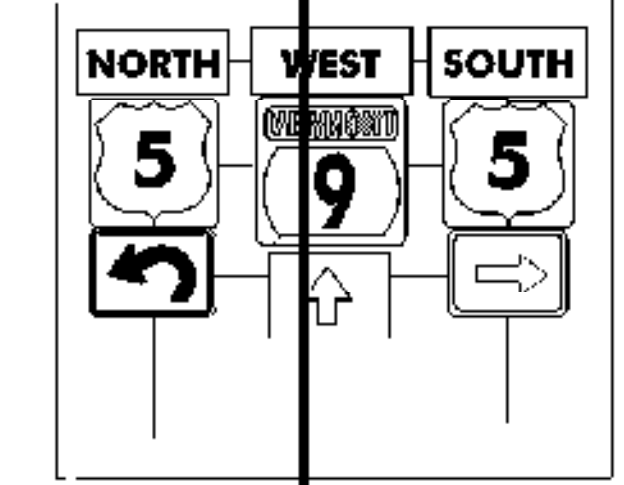
CONSTRUCT SIDEWALK RAMP, TYPE 1  
2+066 RT

COLD PLANING  
2+032.00 C.L. ~ 2+048.00 C.L.

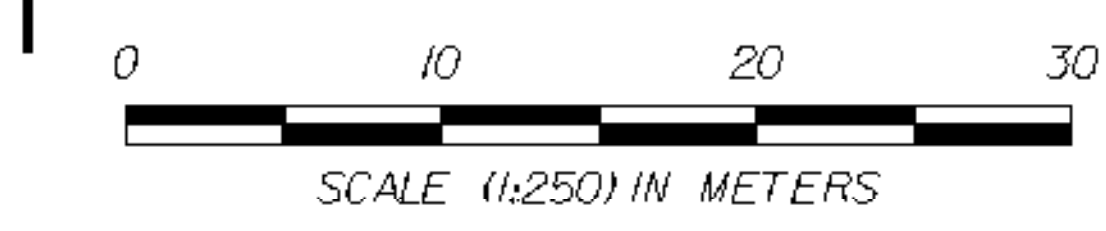
CONSTRUCT CURBED ISLAND  
BRAT. ST. HWY. STA. 2+050.0 C ~ STA. 2+070.0 C



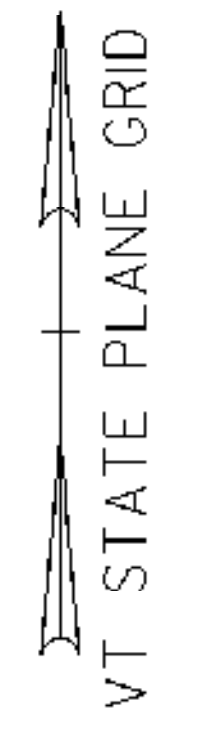
STA 2+050 LT



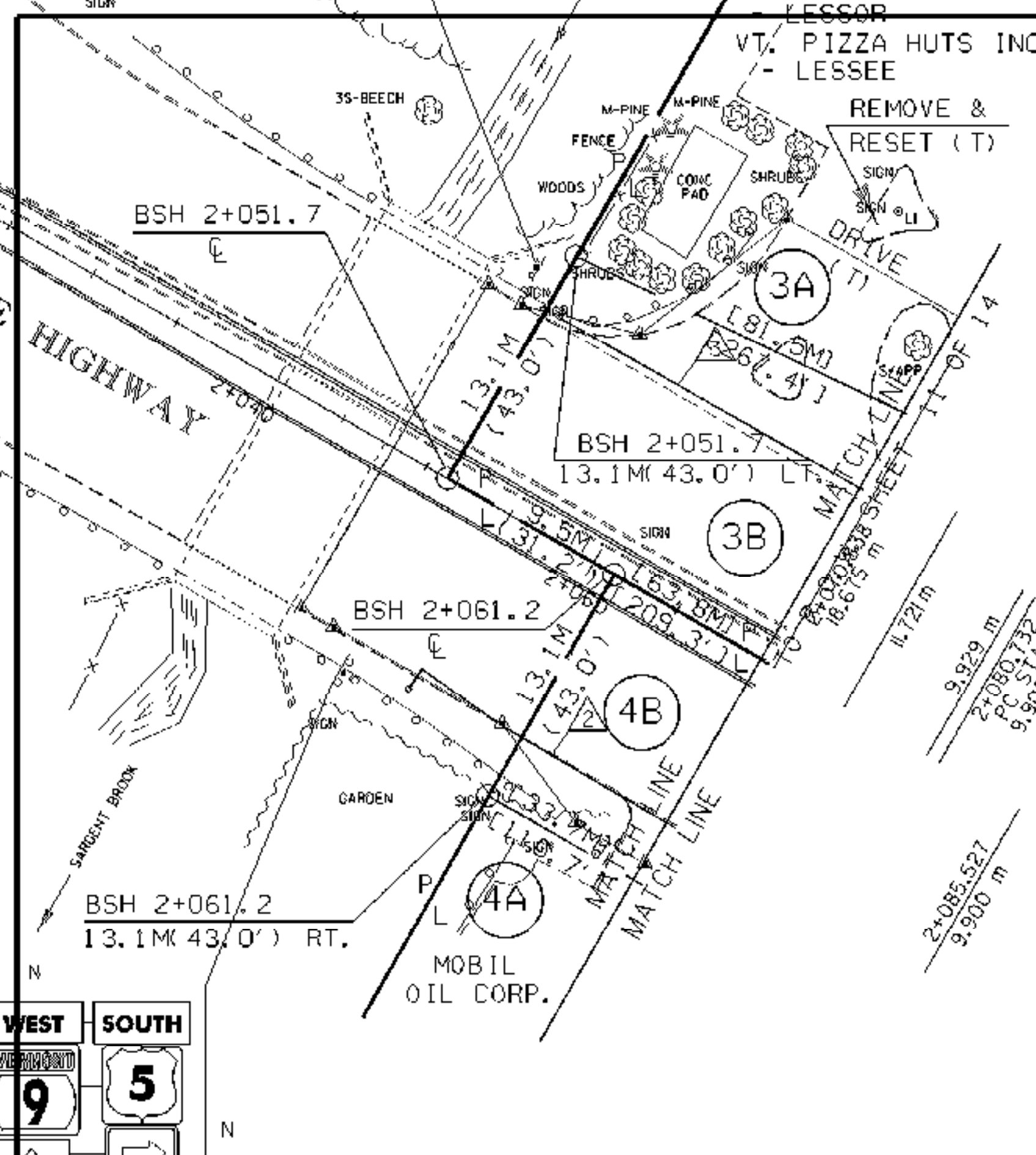
STA 2+055 RT



SCALE (1:250) IN METERS



BRATTLEBORO STATE HIGHWAY



THE JACK TARMY REVOCABLE TP LESSOR  
VT. PIZZA HUTS INC. LESSEE

REMOVE & RESET (T)

DRIVE

3A

3B

3C

3D

3E

3F

3G

3H

3I

3J

3K

3L

3M

3N

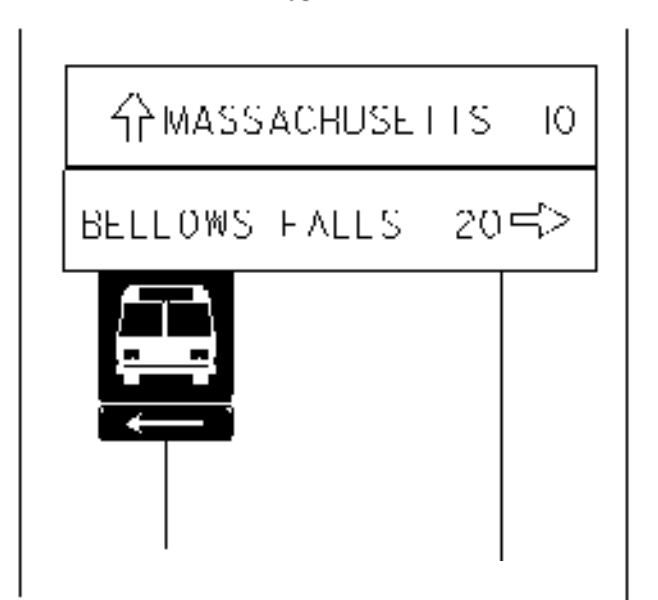
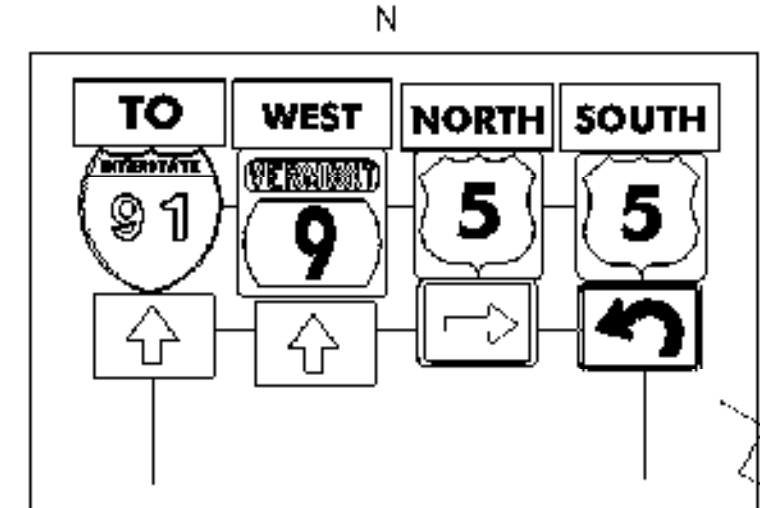
3O

3P

LAYOUT -- EXISTING & NEW DRAINAGE FOR R.O.W. USE ONLY



PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: /prop/93d191/rd191zzz.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: rd191r14.i	SURVEY DATE: 10-95
SURVEYED BY: R. GILMAN	DRAWN BY: K. UPMAL
SQUAD LEADER: S. MENARD	
R. O. W. SHEET 12 OF 14	SHEET 17 OF 67

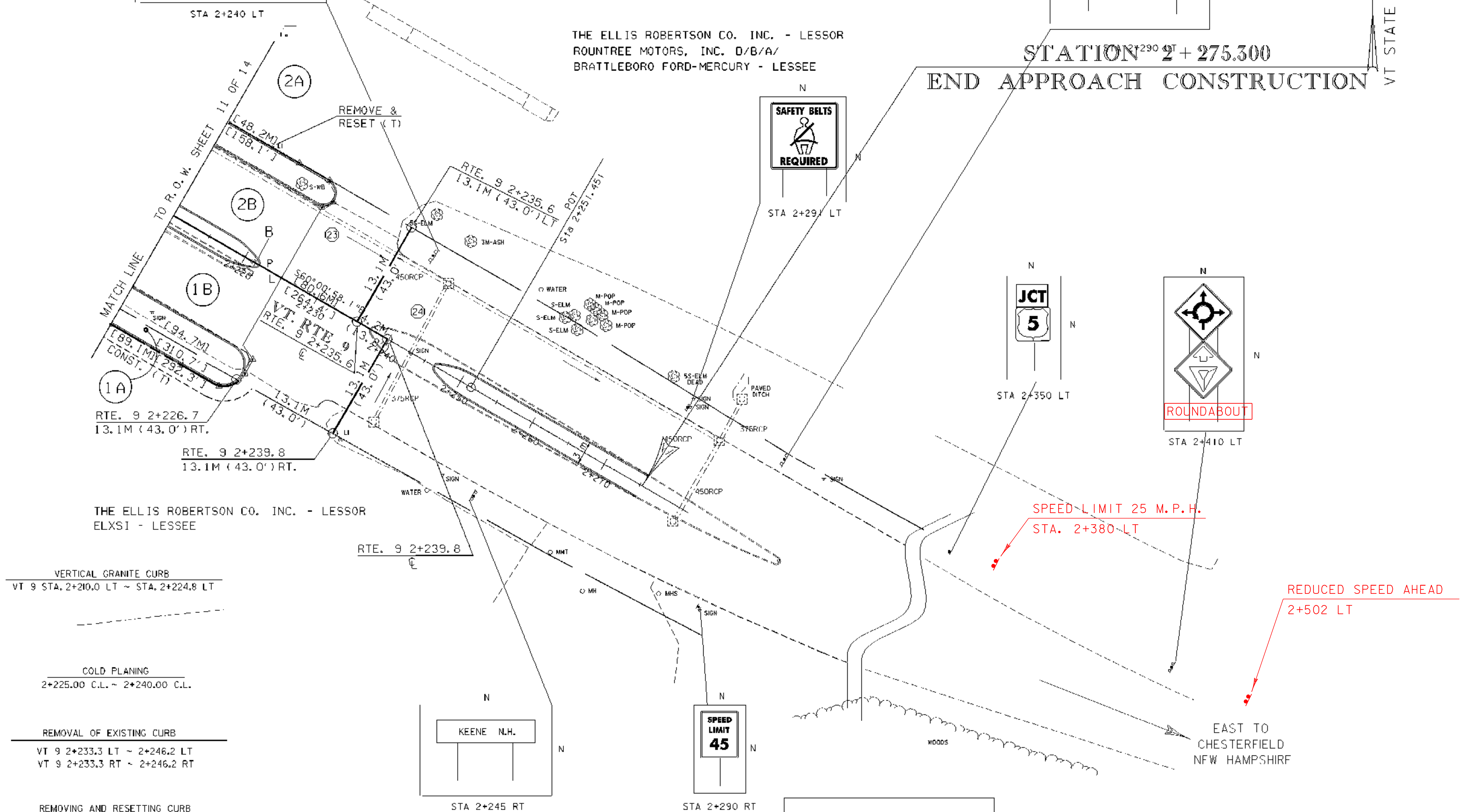


VT STATE PLANE GRID

THE ELLIS ROBERTSON CO. INC. - LESSOR  
 ROUNTREE MOTORS, INC. D/B/A/  
 BRATTLEBORO FORD-MERCURY - LESSEE

STATION 2+290 LT ~ 2+275.300

END APPROACH CONSTRUCTION



THE ELLIS ROBERTSON CO. INC. - LESSOR  
 ELXSI - LESSEE

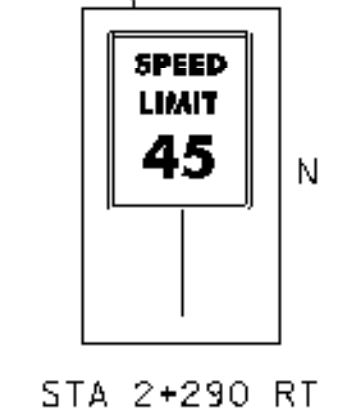
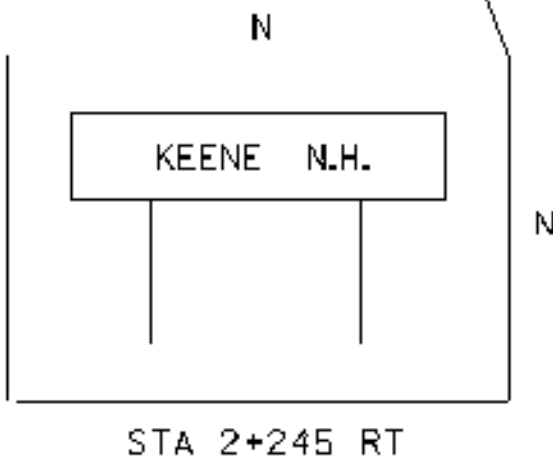
VERTICAL GRANITE CURB  
 VT 9 STA. 2+210.0 LT ~ STA. 2+224.8 LT

COLD PLANING  
 2+225.00 C.L. ~ 2+240.00 C.L.

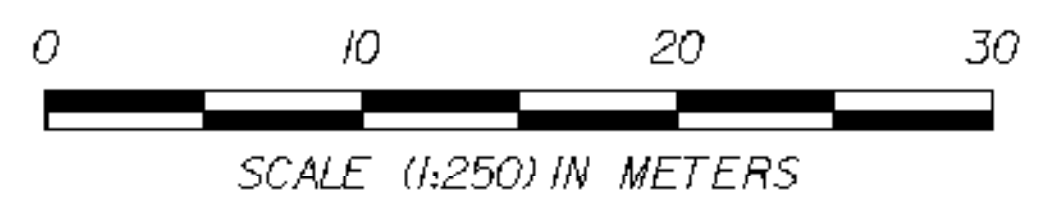
REMOVAL OF EXISTING CURB  
 VT 9 2+233.3 LT ~ 2+246.2 LT  
 VT 9 2+233.3 RT ~ 2+246.2 RT

REMOVING AND RESETTING CURB  
 VT 9 2+246.2 LT ~ 2+264.4 LT  
 VT 9 2+246.2 RT ~ 2+264.4 RT

CONSTRUCT CURBED ISLAND  
 VT 9 STA. 2+210.0 C ~ STA. 2+222.0 C  
 VT 9 STA. 2+210.0 RT ~ STA. 2+225.0 RT



Lines shown on this plan as existing property lines P/L are believed to be accurate but should not be relied upon for purposes unrelated to the state of Vermont's acquisition of land and rights for this project.



FOR R.O.W. USE ONLY



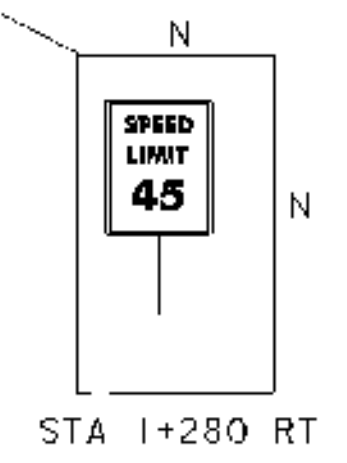
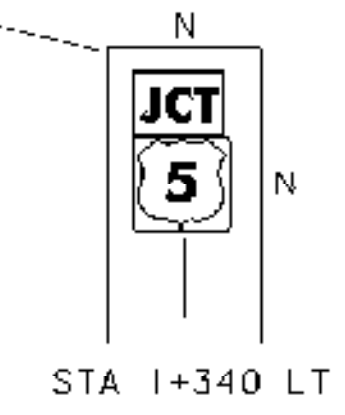
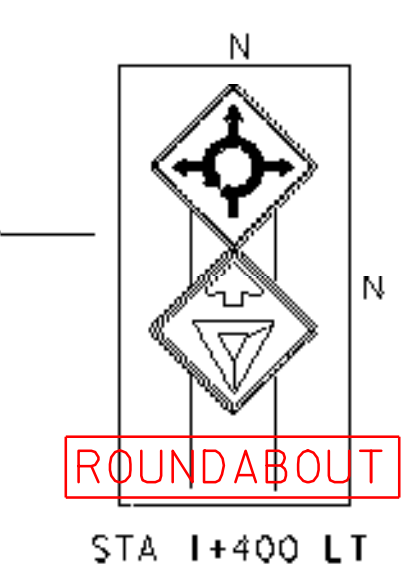
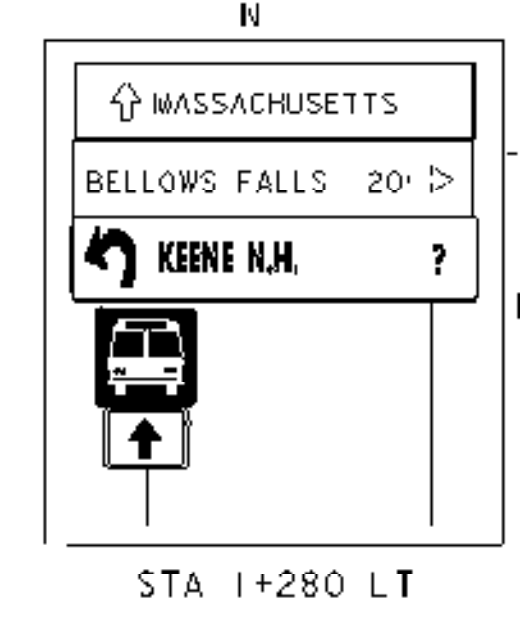
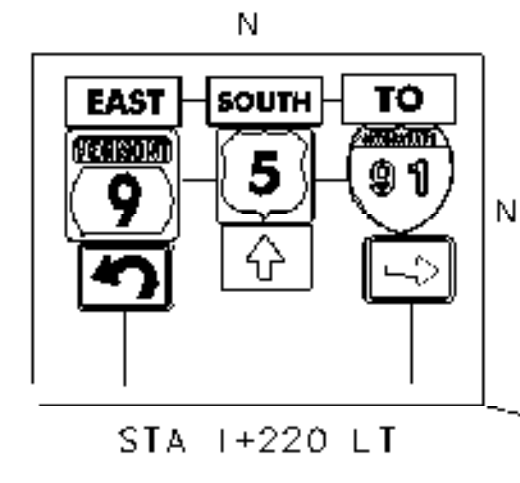
PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: /prop/93d191/rd191zzz.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: rd1914r.f	SURVEY DATE: 10-95
SURVEYED BY: R. GILMAN	DRAWN BY: K. UPMAL
SQUAD LEADER: S. MENARD	R.O.W. SHEET 13 OF 14
	SHEET 18 OF 67

REDUCED SPEED AHEAD  
STA. 1+478 LT

SPEED LIMIT 25 M.P.H.  
STA. 1+600 LT

NORTH TO  
DUMMERSTON

VT STATE PLANE GRID



STA 1+220 LT  
RTE. 5 1+211.8  
13.1M (43.0') LT.

RTE. 5 1+211.8  
13.1M (43.0') LT.

END ROW PROJECT

NH 2000(18) STA RTE. 5 1+211.8 C

THE JACK TARMY  
REVOCABLE TRUST - LESSOR  
VT. PIZZA HUTS INC. - LESSEE

RTE. 5 1+194.3  
14.4M (47.2') LT.

REMOVE &  
RESET (T)  
RTE. 5 1+194.3  
13.5M (44.3') LT.

RTE. 5 1+201.4  
13.1M (43.0') RT.

N/F  
LERISTIS  
"VILLAGE PIZZA"  
RTE. 1+197.7  
12.9M (42.3') RT.

THE ELLIS ROBERTSON CO. INC. - LESSOR  
ROUNTREE MOTORS, INC. D/B/A/  
BRATTLEBORO FORD-MERCURY - LESSEE

AERIAL UTILITY RELOCATION ROUTING BY  
CENTRAL VERMONT PUBLIC SERVICE CORPORATION &  
BELL ATLANTIC - NYNEX

COLD PLANING  
1+215.00 C.L. ~ 1+240.00 C.L.

CONSTRUCT SIDEWALK RAMP, TYPE 1  
1+192.5 LT  
1+195.6 RT

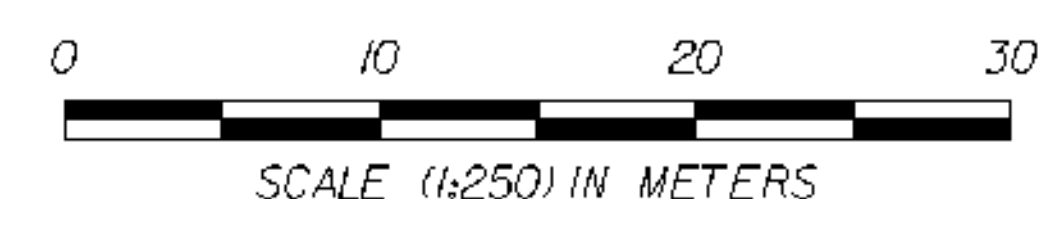
CONSTRUCT DRIVE  
1+202.0 LT  
1+202.0 RT

CONSTRUCT CURBED ISLAND  
US. 5 STA. 1+180.0 RT ~ STA. 1+195.0 RT  
US. 5 STA. 1+180.0 RT ~ STA. 1+196.9 RT

VERTICAL GRANITE CURB  
US. 5 STA. 1+180.0 C ~ STA. 1+215.0 C  
US. 5 STA. 1+180.0 LT ~ STA. 1+192.5 LT

125mm PORTLAND CEMENT CONC. SIDEWALK  
US. 5 STA. 1+180.0 LT ~ STA. 1+194.3 LT  
US. 5 STA. 1+180.0 RT ~ STA. 1+196.3 RT

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/I ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.



FOR R.O.W.  
USE ONLY



PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000(18)
DESIGN FILE NAME:	/prop/93d191/rd191zzz.dgn		
IPARM FILE NAME:	dd191r13	PLOT DATE:	8-APR-1999
SURVEYED BY:	R. GILMAN	SURVEY DATE:	10-95
SQUAD LEADER:	S. MENARD	DRAWN BY:	K. UPMAL
R. O. W. SHEET 14 OF 14		SHEET 19 OF 67	



# GPS CONTROL POINTS

**ROARK**  
 N = 43069.442  
 E = 495505.996

GENERAL LOCATION - BRATTLEBORO, 32 MI(51.5 KM) WEST OF BENNINGTON,  
 27 MI(43.5 KM) SOUTH OF SPRINGFIELD.

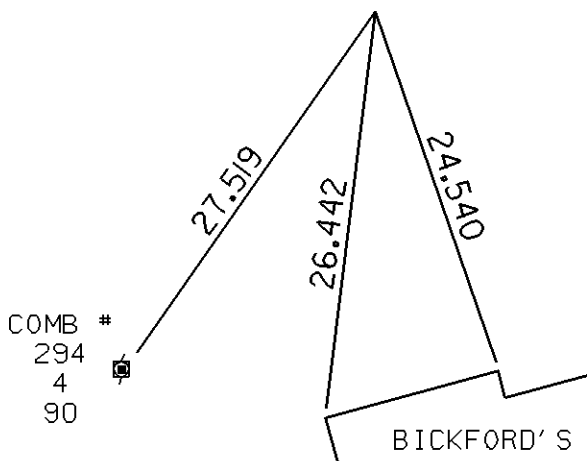
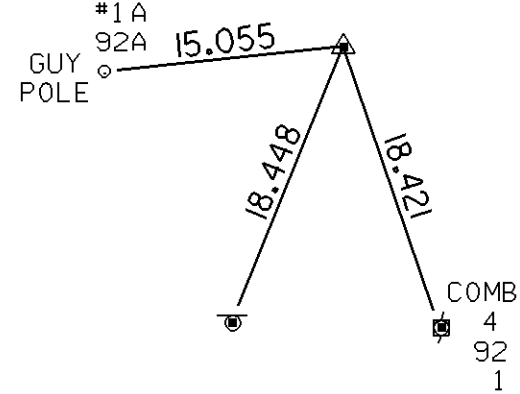
TO REACH FROM THE JUNCTION OF US ROUTE 9 EAST AND VT ROUTE 5  
 NORTH, PROCEED NORTH ON ROUTE 5 FOR 0.2 MI(0.3 KM) TO THE MARK  
 ON THE LEFT AND WEST.

THE MARK IS A STATE OF VERMONT SURVEY DISK SET INTO THE TOP  
 OF A CONCRETE MONUMENT.

THE MARK IS LOCATED 24.0 M (78.7 FT) SOUTH OF A PAVED DRIVE LEADING  
 TO MOTEL 6, 19.2 M (63.0 FT) NORTHEAST OF A GROUP OF 0.1M (0.3 FT)  
 LOCUST TREES, 15.6 M (51.2 FT) SOUTHEAST OF A 0.3 M (1.0 FT) MAPLE TREE,  
 AND 8.6 M (28.2 FT) WEST OF THE CENTERLINE OF ROUTE 5.

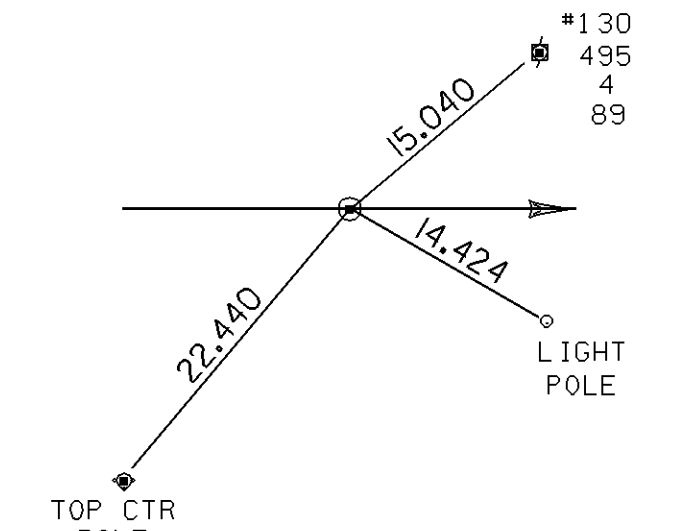
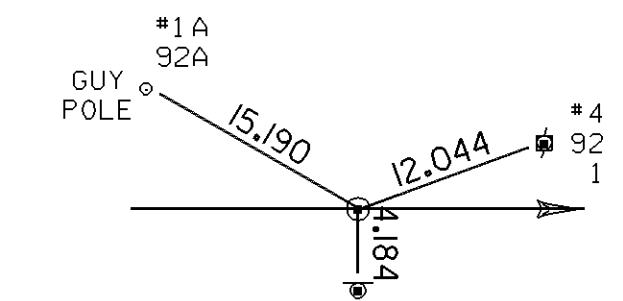
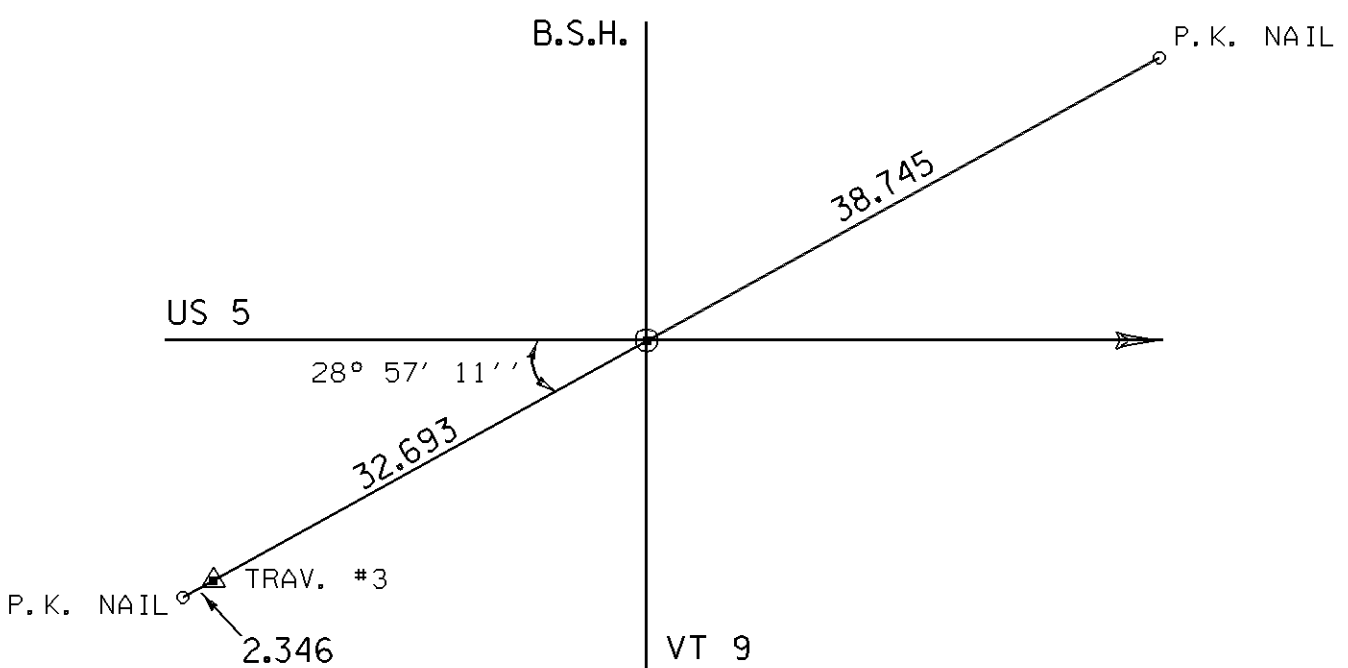
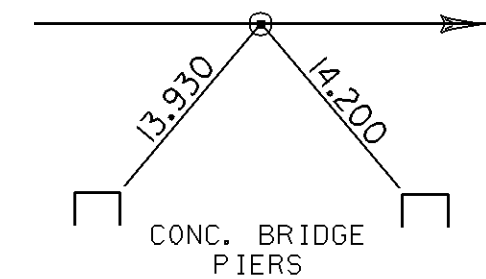
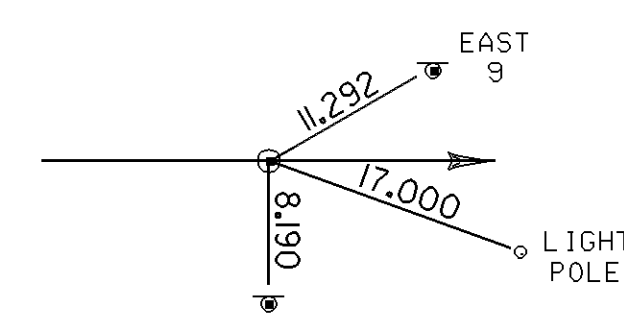
# TRAVERSE TIES

TRAV. #3	TRAV. #4
N = 42728.753	N = 42871.851
E = 495365.930	E = 495427.943
Z = 86.288	Z = 88.144

# ALIGNMENT TIES

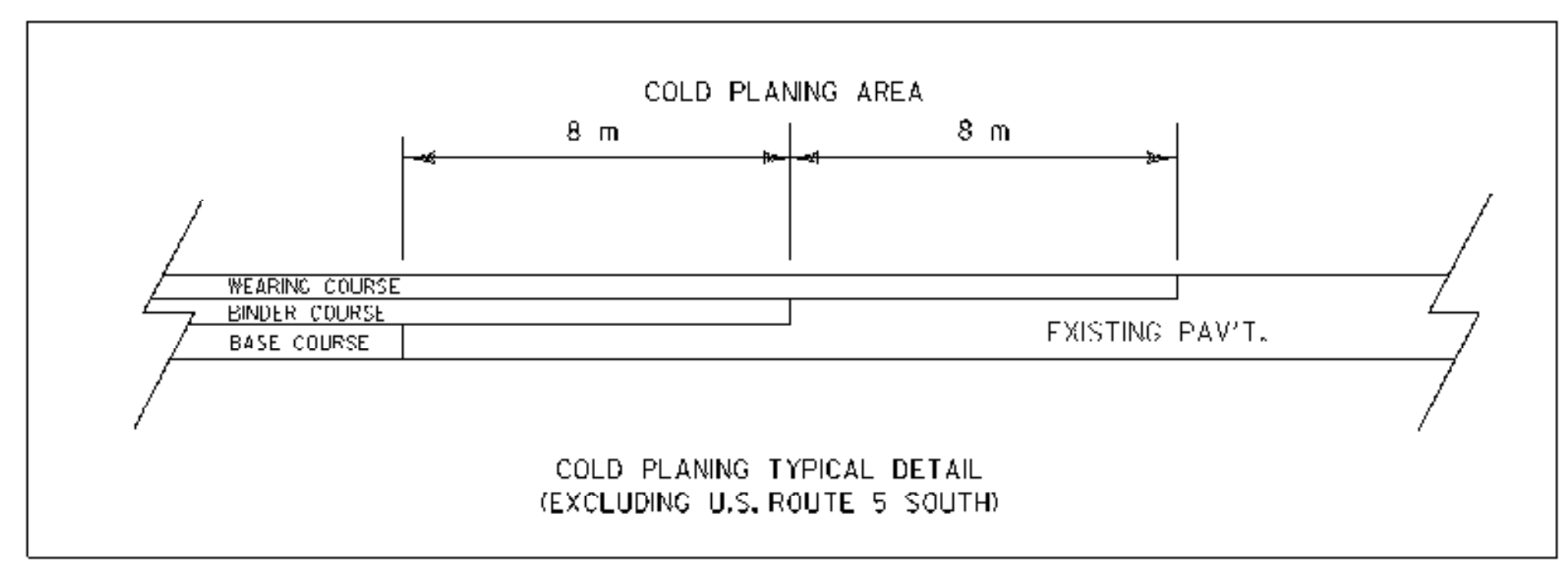
US 5 POT I+000.000	US 5 POT I+242.205	POT US 5 I+130.000 = VT 9 2+140.000	B.S.H. POT I+950.000	VT 9 POT 2+251.451
N = 42648.903	N = 42858.572	N = 42761.440	N = 42856.393	N = 42705.741
E = 495301.469	E = 495422.721	E = 495366.550	E = 495201.978	E = 495463.084

TIES NOT TO SCALE

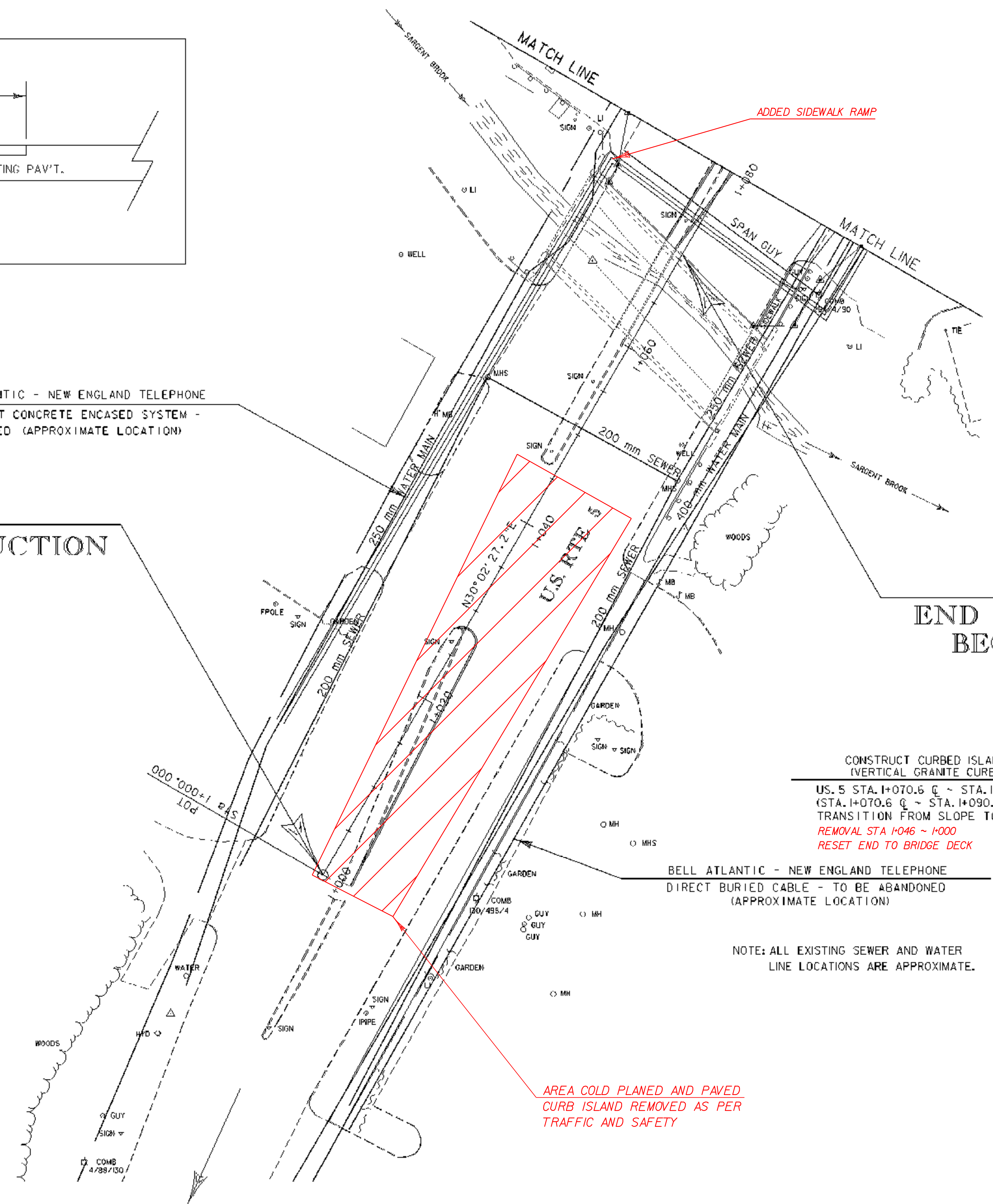
<b>DATUM</b>	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(92)

PROJECT: <b>BRATTLEBORO</b>	PROJECT NO. : NH 2000(18)
DESIGN FILE NAME: /sqdc/93dl9l/ddl9lfrm.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: ddl9l+le.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: B. MCAVOY
SQUAD LEADER: S. MENARD	SHEET: 20 OF 67



STATION 1+000.00  
 BEGIN APPROACH CONSTRUCTION

STATION 1+070.620  
 END APPROACH CONSTRUCTION  
 BEGIN PROJECT NH 2000(18)



BELL ATLANTIC - NEW ENGLAND TELEPHONE  
 THREE DUCT CONCRETE ENCASED SYSTEM -  
 ABANDONED (APPROXIMATE LOCATION)

CONSTRUCT CURBED ISLAND  
 (VERTICAL GRANITE CURB)  
 U.S. 5 STA. 1+070.6 @ ~ STA. 1+080.0 @  
 (STA. 1+070.6 @ ~ STA. 1+090.0 @  
 TRANSITION FROM SLOPE TO VERTICAL)  
 REMOVAL STA 1+046 ~ 1+000  
 RESET END TO BRIDGE DECK

BELL ATLANTIC - NEW ENGLAND TELEPHONE  
 DIRECT BURIED CABLE - TO BE ABANDONED  
 (APPROXIMATE LOCATION)

NOTE: ALL EXISTING SEWER AND WATER  
 LINE LOCATIONS ARE APPROXIMATE.

- CONSTRUCT SIDEWALK RAMP  
 1+073.0 RT TYPE 1
- REMOVING & RESETTING CURB  
 U.S. 5 1+000.0 @ ~ 1+028.2 @  
 MATCH EXISTING @ 1+000.0 RT  
 OFFSET 1.8 m RT @ 1+028.2 RT
- VERTICAL GRANITE CURB  
 U.S. 5 STA. 1+067.9 RT ~ STA. 1+075.4 RT
- 200mm PORTLAND CEMENT CONC. SIDEWALK  
 U.S. 5 STA. 1+075.4 RT ~ STA. 1+080.0 RT

AREA COLD PLANED AND PAVED  
 CURB ISLAND REMOVED AS PER  
 TRAFFIC AND SAFETY

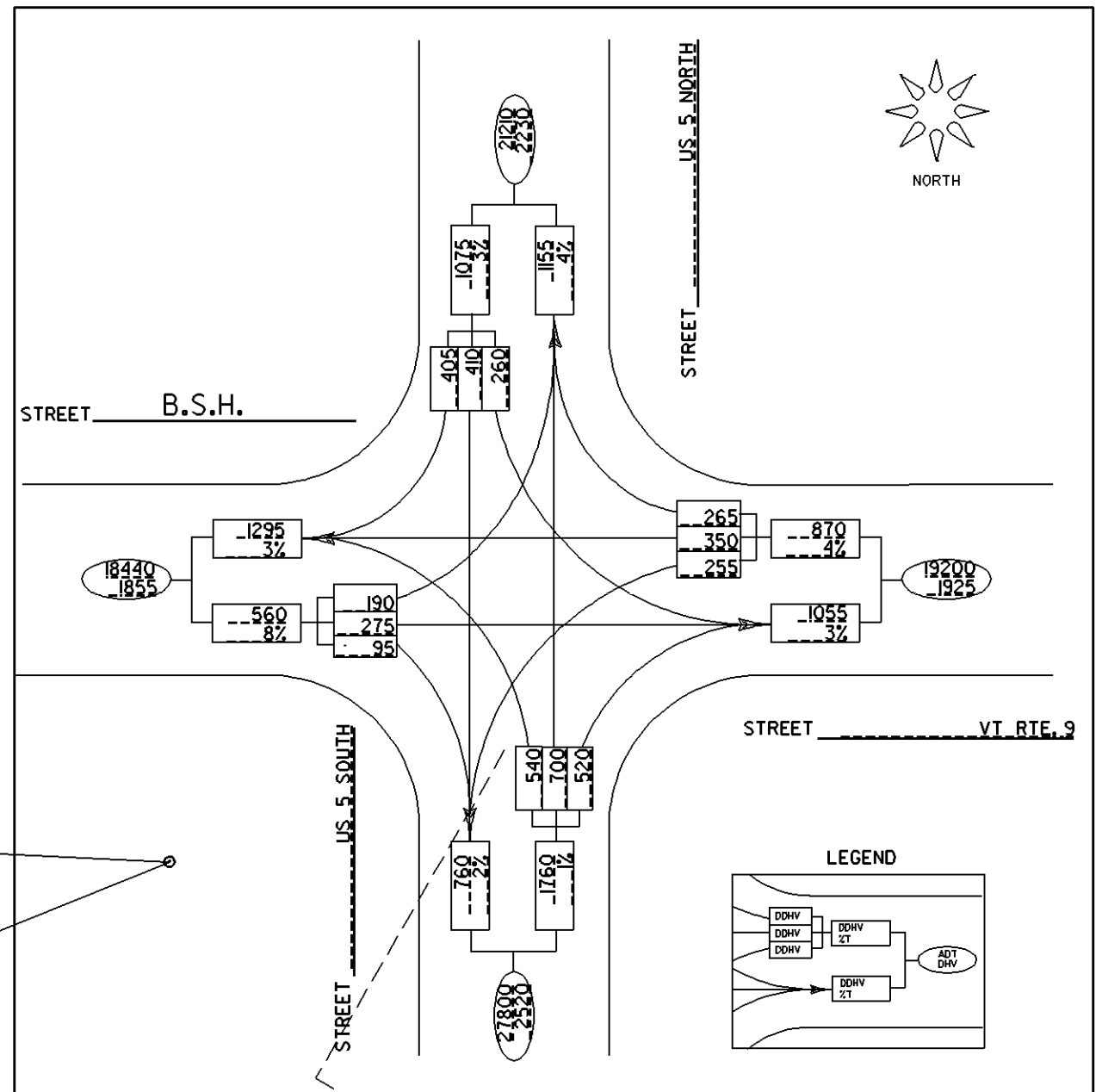
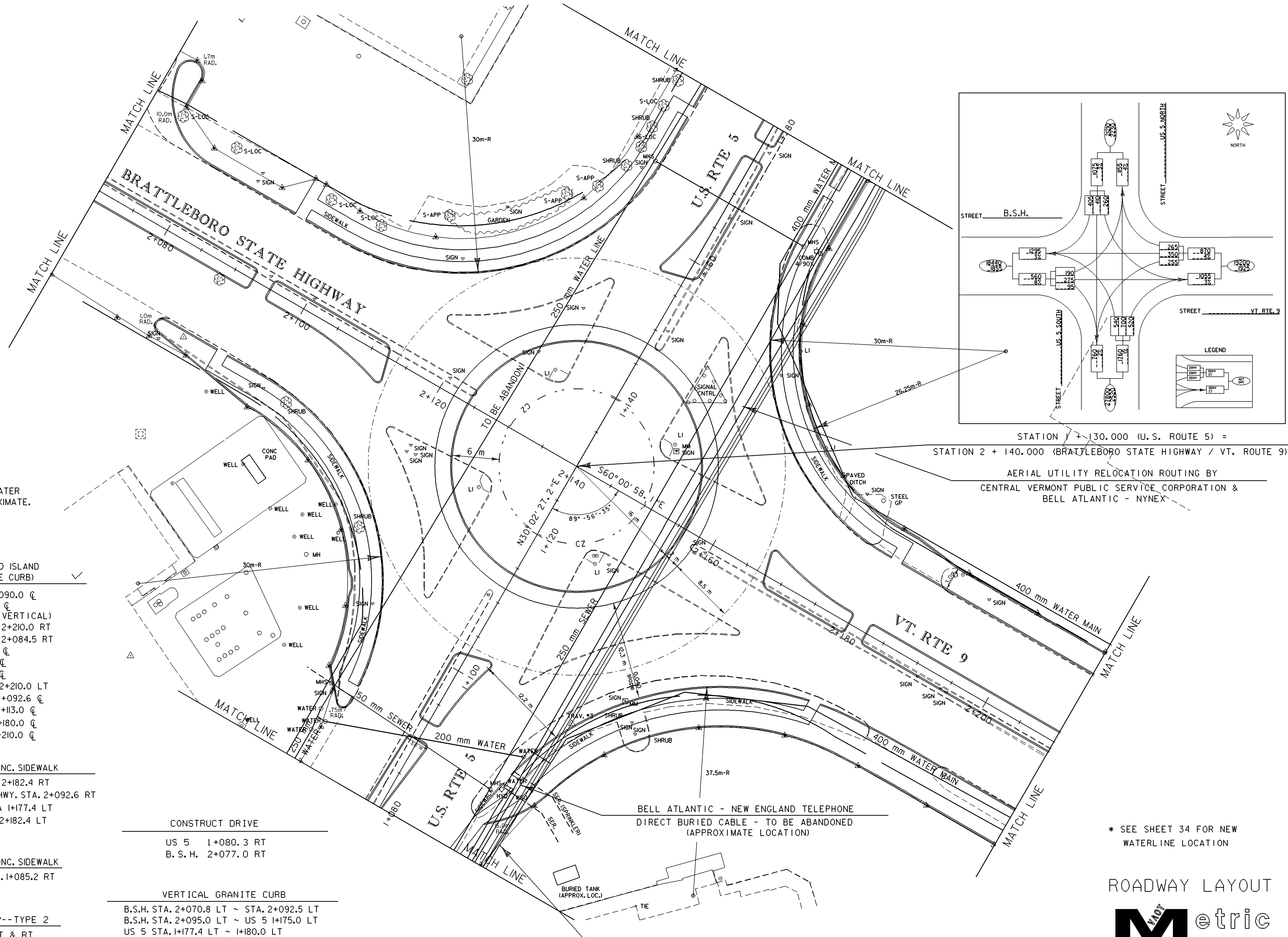
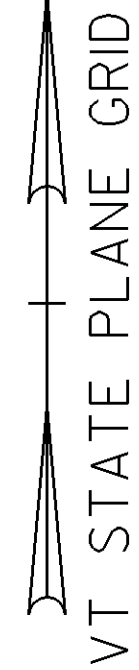
SOUTH TO  
 GUILFORD



ROADWAY LAYOUT



PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	/squad/93d191/dd191bdr.dgn		
IPARM FILE NAME:	dd191l1	PLOT DATE:	8-APR-1999
SURVEYED BY:	R. GILMAN	SURVEY DATE:	10-95
SQUAD LEADER:	S. MENARD	DRAWN BY:	K. UPMAL
		SHEET:	21 OF 67



STATION 1 + 130.000 (U.S. ROUTE 5) =  
STATION 2 + 140.000 (BRATTLEBORO STATE HIGHWAY / VT. ROUTE 9)

AERIAL UTILITY RELOCATION ROUTING BY  
CENTRAL VERMONT PUBLIC SERVICE CORPORATION &  
BELL ATLANTIC - NYNEX

NOTE: ALL EXISTING SEWER AND WATER  
LINE LOCATIONS ARE APPROXIMATE.

CONSTRUCT CURBED ISLAND  
(VERTICAL GRANITE CURB)

- US 5 STA. 1+080.0 CL ~ STA. 1+090.0 CL  
(STA. 1+070.6 CL ~ STA. 1+090.0 CL  
TRANSITION FROM SLOPE TO VERTICAL)
- US 5 STA. 1+084.7 RT ~ VT 9 2+210.0 RT
- US 5 STA. 1+088.5 LT ~ B.S.H. 2+084.5 RT
- US 5 STA. 1+092.4 CL ~ 1+103.0 CL
- US 5 STA. 1+157.0 CL ~ 1+175.0 CL
- US 5 STA. 1+177.4 CL ~ 1+180.0 CL
- US 5 STA. 1+180.0 RT ~ VT 9 2+210.0 LT
- B.S.H. STA. 2+070.0 CL ~ STA. 2+092.6 CL
- B.S.H. STA. 2+095.0 CL ~ STA. 2+113.0 CL
- VT 9 STA. 2+167.0 CL ~ STA. 2+180.0 CL
- VT 9 STA. 2+182.4 CL ~ STA. 2+210.0 CL

125mm PORTLAND CEMENT CONC. SIDEWALK

- US 5 STA. 1+085.2 RT ~ VT 9 STA. 2+182.4 RT
- US 5 STA. 1+090.0 LT ~ BRAT. ST. HWY. STA. 2+092.6 RT
- B.S.H. STA. 2+092.6 LT ~ U.S. 5 STA 1+177.4 LT
- US 5 STA. 1+180.0 RT ~ VT 9 STA. 2+182.4 LT

CONSTRUCT DRIVE

- US 5 1+080.3 RT
- B. S. H. 2+077.0 RT

200mm PORTLAND CEMENT CONC. SIDEWALK

- US 5 STA. 1+080.0 RT ~ STA. 1+085.2 RT

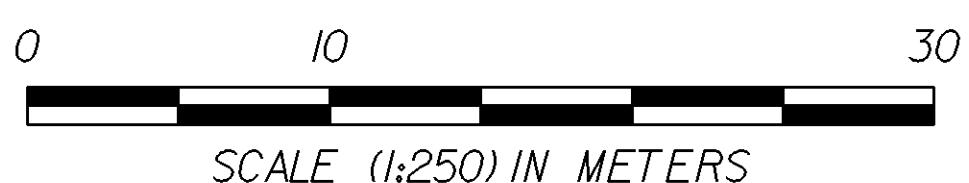
VERTICAL GRANITE CURB

- B.S.H. STA. 2+070.8 LT ~ STA. 2+092.5 LT
- B.S.H. STA. 2+095.0 LT ~ US 5 1+175.0 LT
- US 5 STA. 1+177.4 LT ~ 1+180.0 LT

CONSTRUCT SIDEWALK RAMP--TYPE 2

- B. S. H. 2+093.8 LT & RT
- VT RTE. 9 2+181.2 LT & RT
- US RTE. 5 1+091.1 LT & RT
- US RTE. 5 1+176.2 LT & RT

BELL ATLANTIC - NEW ENGLAND TELEPHONE  
THREE DUCT CONCRETE ENCASED SYSTEM -  
ABANDONED (APPROXIMATE LOCATION)



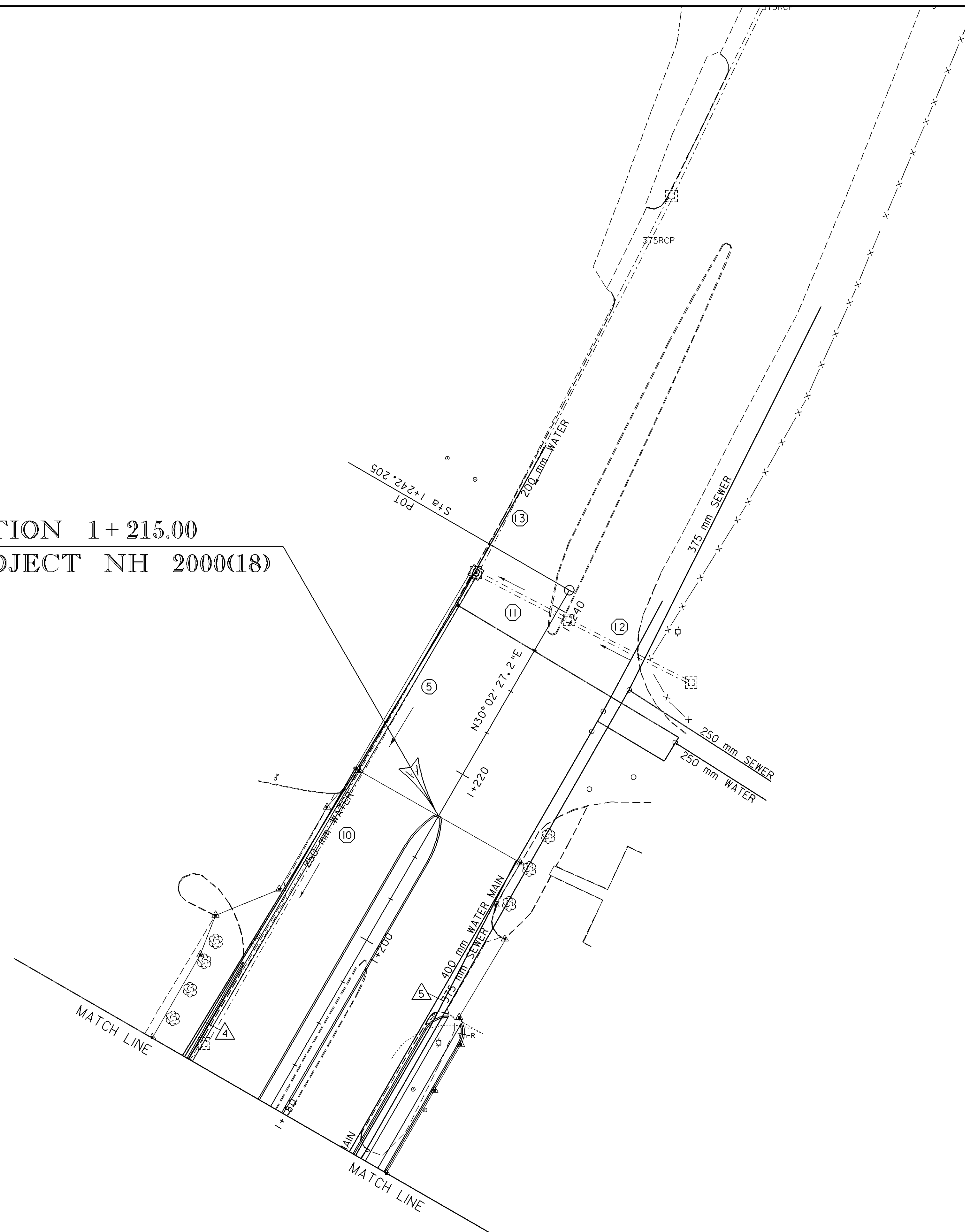
\* SEE SHEET 34 FOR NEW  
WATERLINE LOCATION

ROADWAY LAYOUT



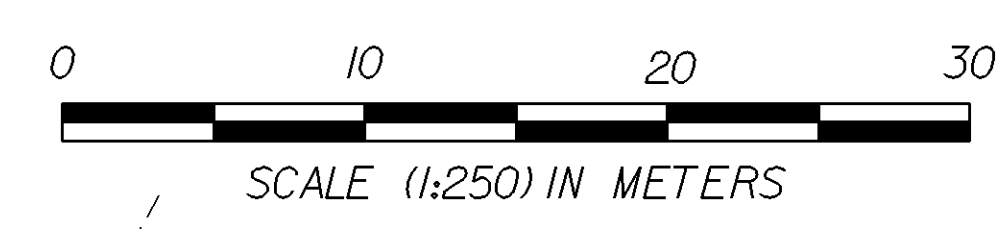
PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: <b>NH 2000(18)</b>
DESIGN FILE NAME: /sqdc/93d191/d191bdr.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191L2.1	SURVEY DATE: 10-95
SURVEYED BY: R. GILMAN	DRAWN BY: K. UPMAL
SQUAD LEADER: S. MENARD	SHEET: 22 OF 67

STATION 1+215.00  
 END PROJECT NH 2000(18)



- |                          |  |
|--------------------------|--|
| <u>EXISTING DRAINAGE</u> |  |
| ⑩                        | US 5 1+182.6 LT ~ 1+238.6 LT<br>REMOVE EXISTING 375 mm RCP & DI  |
| ⑪                        | US 5 1+238.8 LT ~ 1+239.4 RT<br>RETAIN EXISTING 300 mm RCP & DI  |
| ⑫                        | US 5 1+239.6 RT ~ 1+240.0 RT<br>RETAIN EXISTING 300 mm RCP & DI  |
| ⑬                        | US 5 1+239.2 LT<br>RETAIN EXISTING 375 mm RCP & DI   |
| <u>NEW DRAINAGE</u>      |  |
| ⑤                        | US 5 1+167.5 LT ~ 1+238.7 LT<br>NEW 450 mm X 71m RCP CL III OR CPEP (SL)<br>NEW 1.2 X 1.2 RCDI @ INLET |
| <u>UNDERDRAIN</u>        |  |
| △ 4                      | US 5 1+167.5 LT ~ 1+215.0 LT<br>NEW 150 mm X 47 m UNDERDRAIN<br>W/ F.B. @ 1+215.0 LT                   |
| △ 5                      | VT 9 2+179.1 LT ~ US 5 1+215.0 RT<br>NEW 150 mm X 90 m UNDERDRAIN                                      |

LAYOUT--EXISTING & NEW DRAINAGE



PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: <b>NH_2000(18)</b>
DESIGN FILE NAME: /sqdc/93d191/dd191bdr.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191d13.i	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 30 OF 67

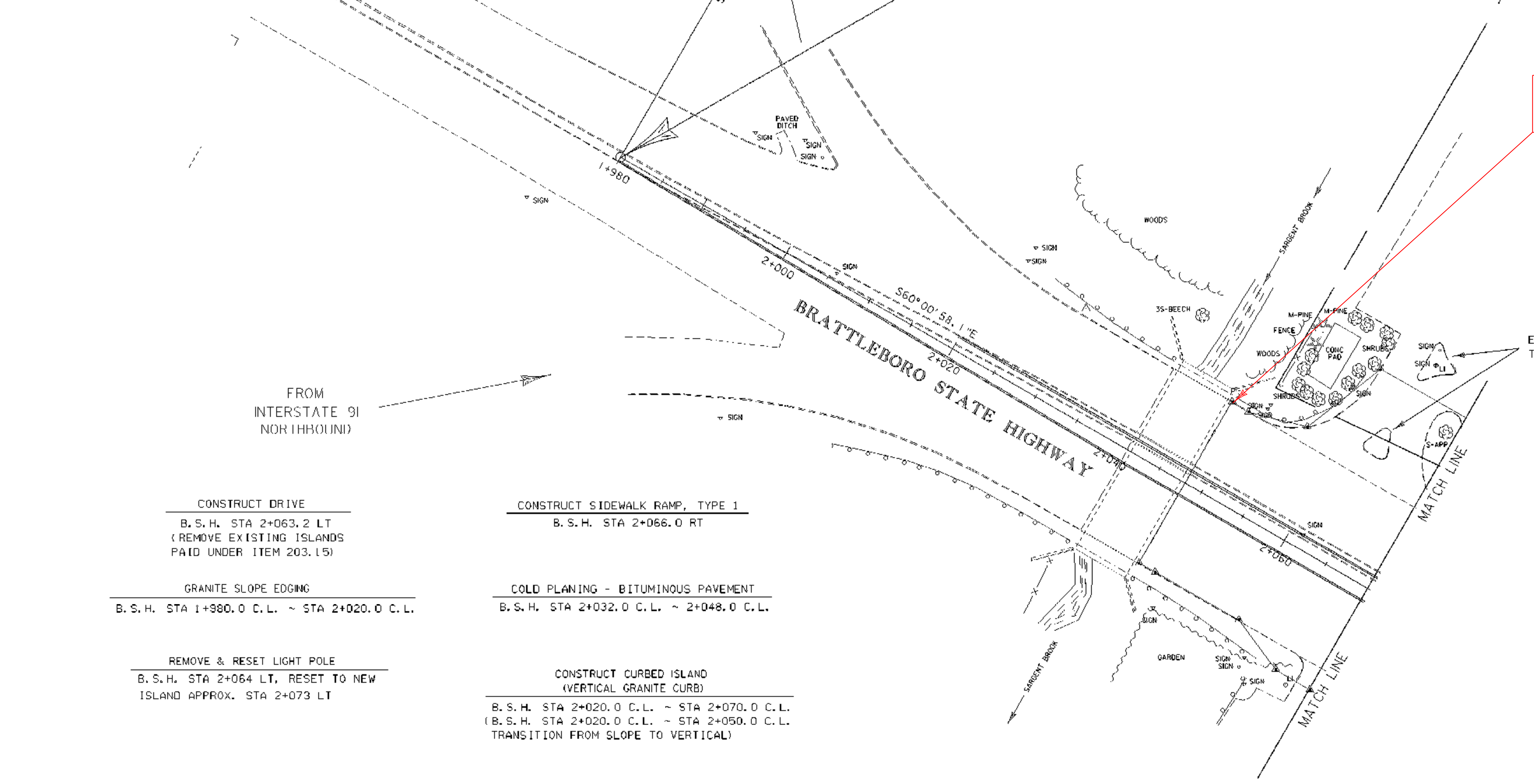
TO SOUTHBOUND INTERSTATE 91

FROM INTERSTATE 91 SOUTHBOUND

10 INTERSTATE 91 NORTHBOUND

STATION 1+980.00  
BEGIN APPROACH CONSTRUCTION

VT STATE PLANE GRID



**CONSTRUCT DRIVE**  
B. S. H. STA 2+063.2 LT  
(REMOVE EXISTING ISLANDS PAID UNDER ITEM 203.15)

**GRANITE SLOPE EDGING**  
B. S. H. STA 1+980.0 C.L. ~ STA 2+020.0 C.L.

**REMOVE & RESET LIGHT POLE**  
B. S. H. STA 2+064 LT, RESET TO NEW ISLAND APPROX. STA 2+073 LT

**CONSTRUCT SIDEWALK RAMP, TYPE 1**  
B. S. H. STA 2+066.0 RT

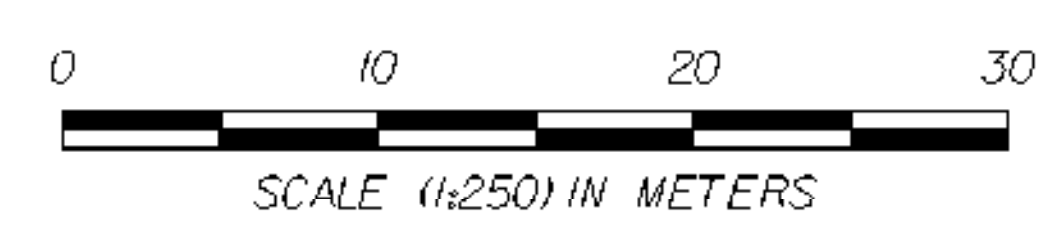
**COLD PLANING - BITUMINOUS PAVEMENT**  
B. S. H. STA 2+032.0 C.L. ~ 2+048.0 C.L.

**CONSTRUCT CURBED ISLAND (VERTICAL GRANITE CURB)**  
B. S. H. STA 2+020.0 C.L. ~ STA 2+070.0 C.L.  
(B. S. H. STA 2+020.0 C.L. ~ STA 2+050.0 C.L. TRANSITION FROM SLOPE TO VERTICAL)

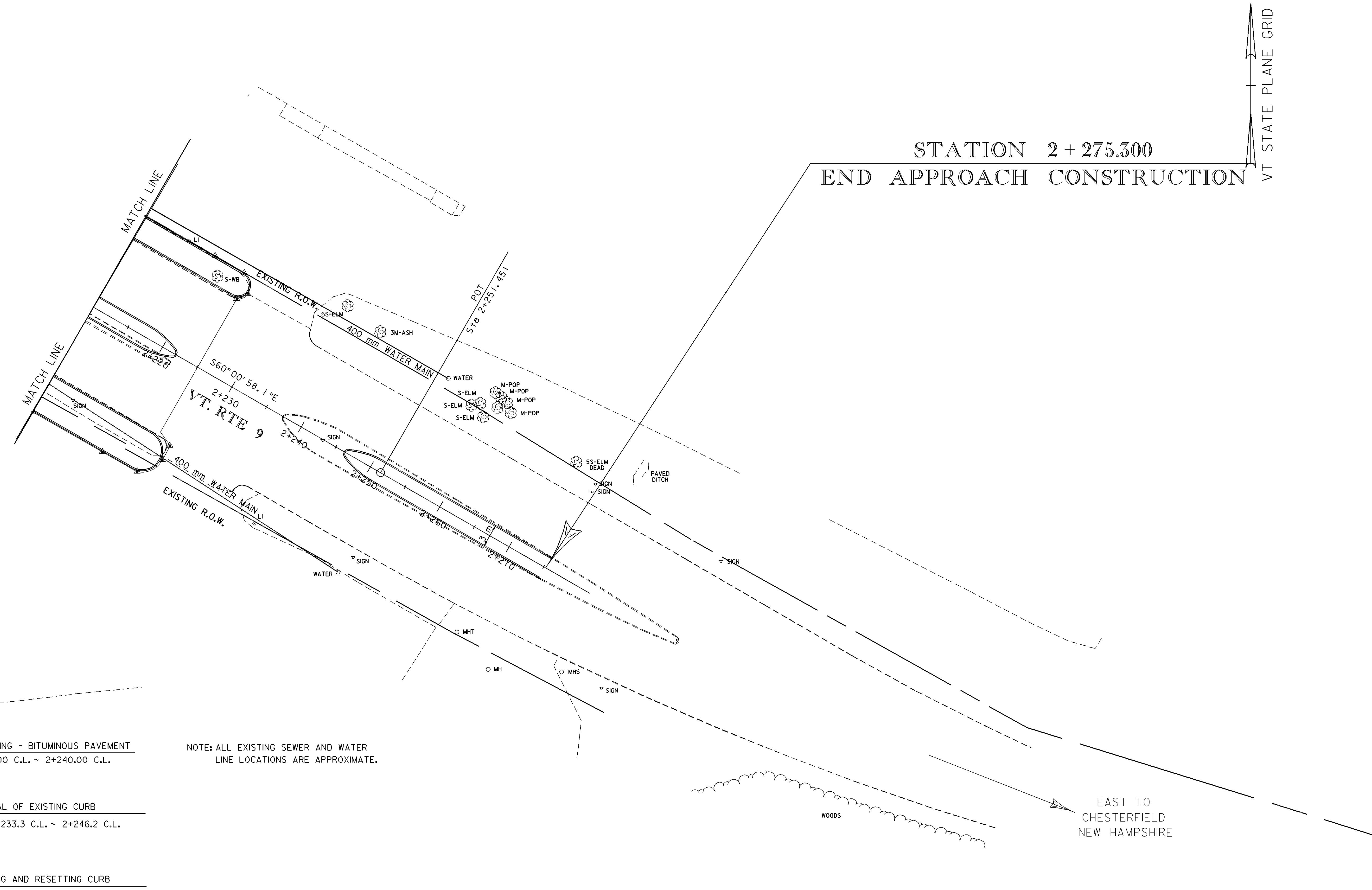
VT HIGHWAY DEPT. DISK #1BM ELEV. 87.194 M SET ON CONCRETE BOX CULVERT BEHIND G.R.

EXISTING ISLANDS TO BE REMOVED

ROADWAY LAYOUT



PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NII 2000(18)</b>
DESIGN FILE NAME:	/sqdc/93d191/dd191bdr.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	031914.i	SURVEY DATE:	10-95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPNAL
SQUAD LEADER:	S. MENARO	SHEET:	24 OF 67



STATION 2 + 275.300  
 END APPROACH CONSTRUCTION

VT STATE PLANE GRID

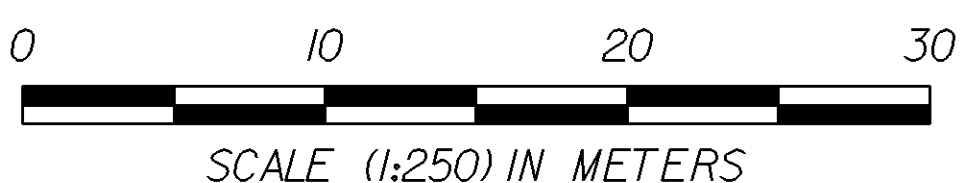
COLD PLANING - BITUMINOUS PAVEMENT  
 2+225.00 C.L. ~ 2+240.00 C.L.

REMOVAL OF EXISTING CURB  
 VT 9 2+233.3 C.L. ~ 2+246.2 C.L.

REMOVING AND RESETTING CURB  
 VT 9 2+246.2 C.L. ~ 2+275.3 C.L.

CONSTRUCT CURBED ISLAND  
 VT 9 STA. 2+210.0 C ~ STA. 2+222.0 C  
 VT 9 STA. 2+210.0 RT ~ STA. 2+226.8 RT  
 VT 9 STA. 2+210.0 LT ~ STA. 2+225.8 LT

NOTE: ALL EXISTING SEWER AND WATER  
 LINE LOCATIONS ARE APPROXIMATE.



EAST TO  
 CHESTERFIELD  
 NEW HAMPSHIRE

ROADWAY LAYOUT  
**Metric**

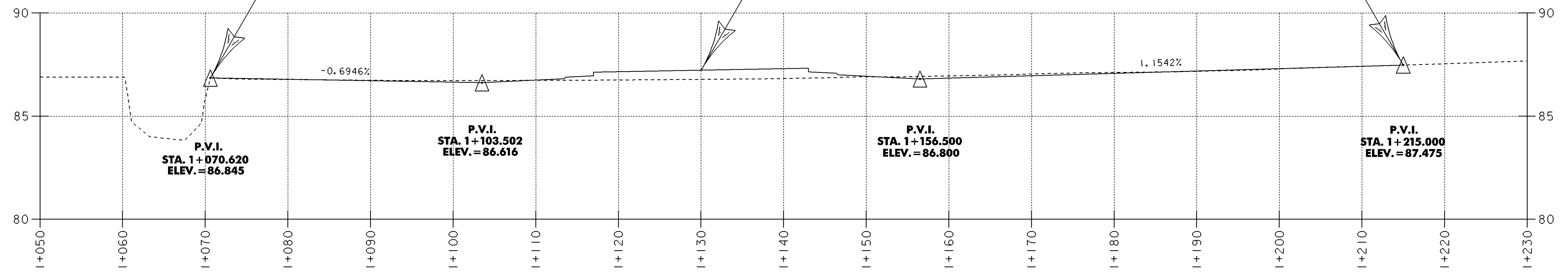
PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	/sqdc/93d191/dd191bdr.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191l5.i	SURVEY DATE:	10-95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPMAL
SQUAD LEADER:	S. MENARD	SHEET:	25 OF 67



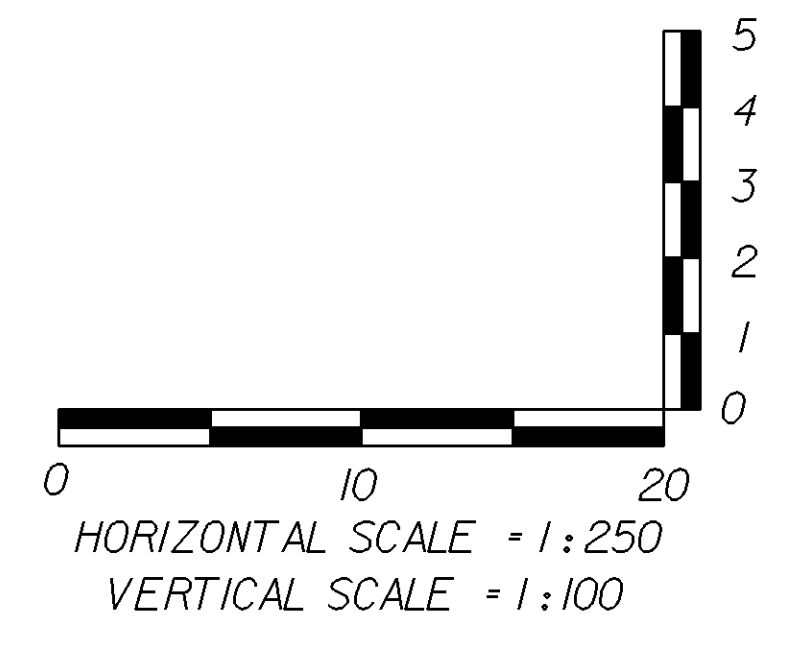
STATION 1 + 070.620  
BEGIN PROJECT NH 2000(18)

STATION 1 + 215.000  
END PROJECT NH 2000(18)

STATION 1 + 130.000 (U.S. ROUTE 5) =  
STATION 2 + 140.000  
(BRATTLEBORO STATE HIGHWAY)  
(VERMONT ROUTE 9)



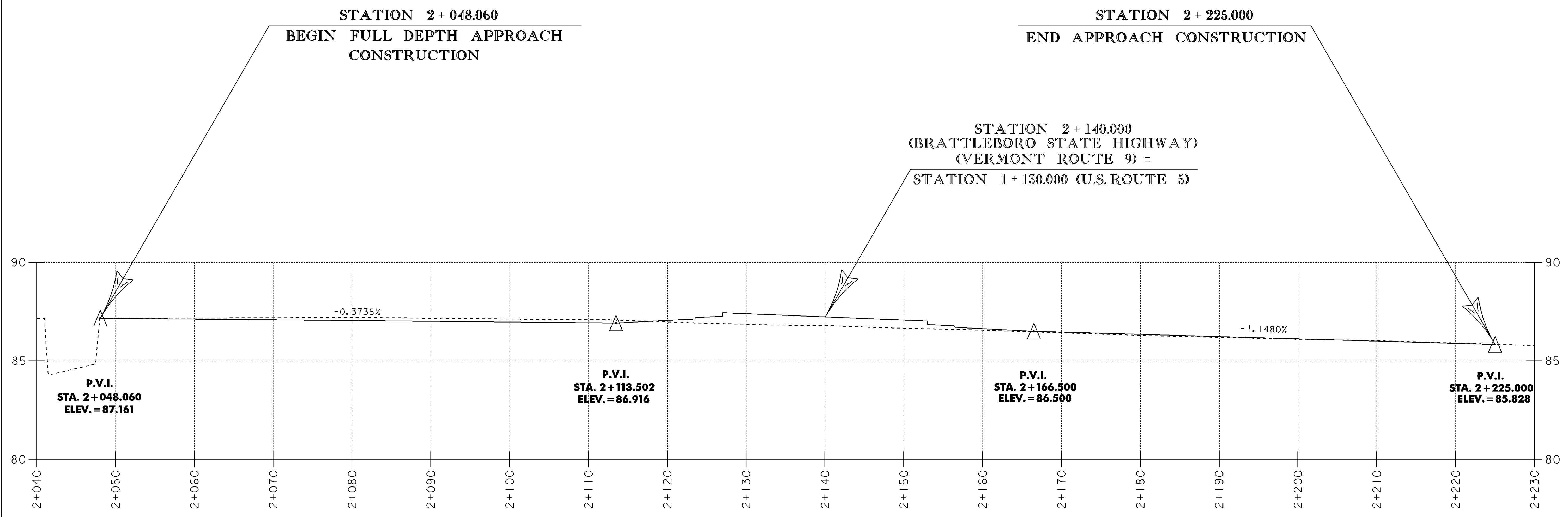
### Profile



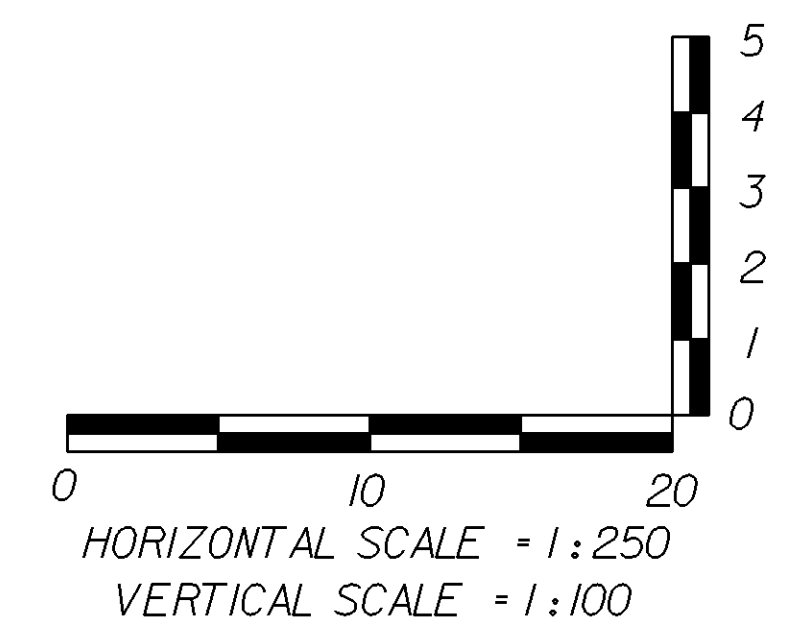
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(92)

## U.S. ROUTE 5

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000(18)
DESIGN FILE NAME:	sqdc/93d191/d191xsl.dgn		
IPARM FILE NAME:	dd191pl1	PLOT DATE:	8-APR-1999
SURVEYED BY:	R. GILMAN	SURVEY DATE:	10/95
SQUAD LEADER:	S. MENARD	DRAWN BY:	K. UPMAL
		SHEET:	26 OF 67



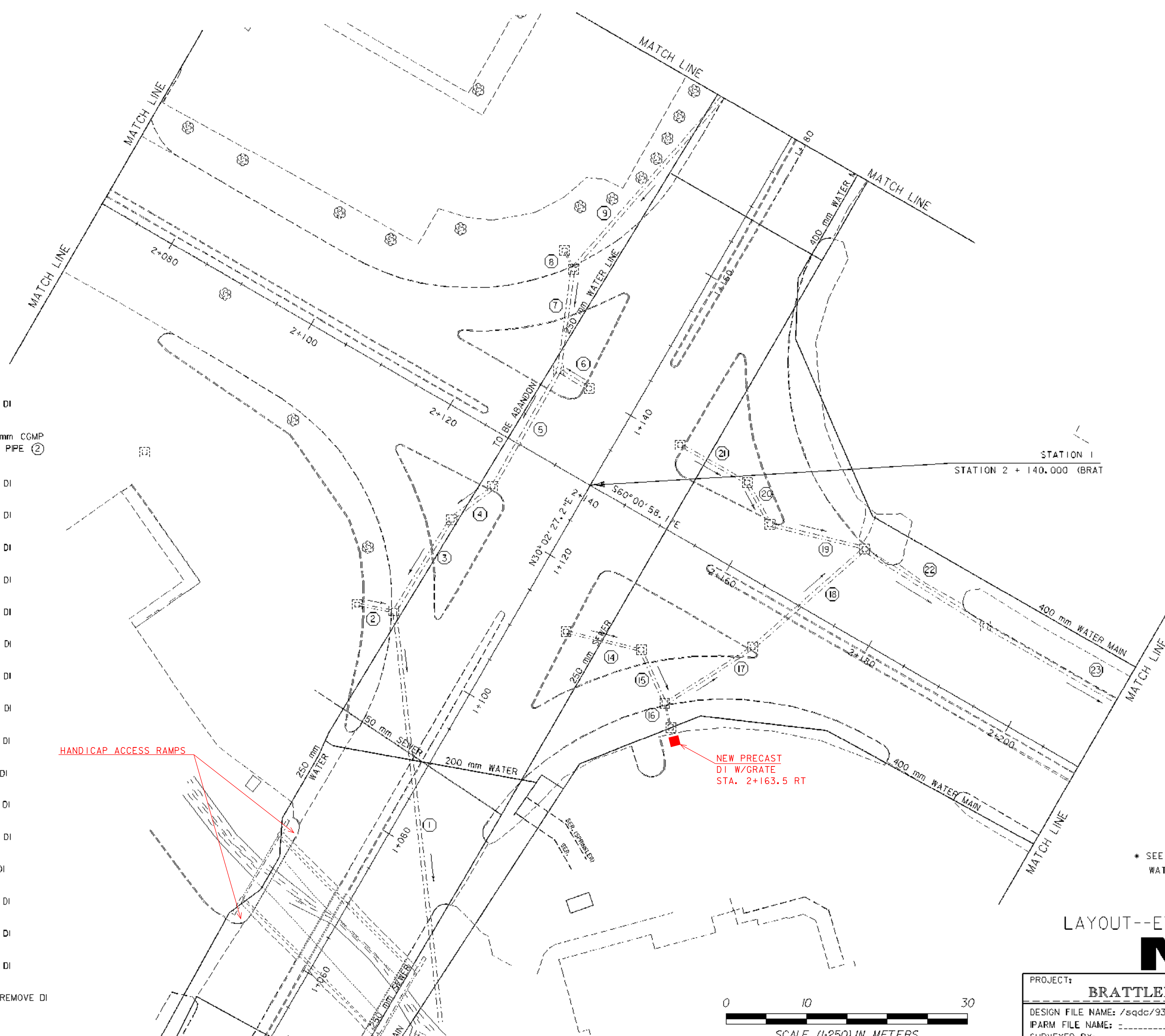
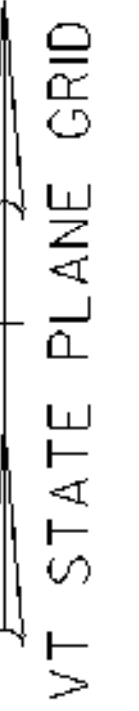
Profile



VT. ROUTE 9 -  
BRATTLEBORO STATE HIGHWAY

DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(92)

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000(18)
DESIGN FILE NAME:	sqdc/93d191/dd191xsl.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191p21	SURVEY DATE:	10/95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPMAL
SQUAD LEADER:	S. MENARD	SHEET:	27 OF 57



- EXISTING DRAINAGE**
- ① US 5 1+062.7 RT ~ 1+04.2 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ② US 5 1+102.8 LT ~ 1+104.1 LT  
REMOVE DI & 1.5 m EXISTING 300 mm CGMP  
& CONNECT TO NEW INLET DI FOR PIPE ②
  - ③ US 5 1+104.7 LT ~ 1+117.4 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ④ US 5 1+118.0 LT ~ 1+123.4 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑤ US 5 1+124.1 LT ~ 1+140.0 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑥ US 5 1+140.0 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑦ US 5 1+140.8 LT ~ 1+152.1 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑧ US 5 1+152.4 LT ~ 1+153.4 LT  
REMOVE EXISTING 200 mm CSP & DI
  - ⑨ US 5 1+152.6 LT ~ 1+181.8 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑭ VT 9 2+146.8 RT ~ 2+155.5 RT  
REMOVE EXISTING 300 mm RCP & DI
  - ⑮ VT 9 2+156.0 RT ~ 2+161.3 RT  
REMOVE EXISTING 375 mm RCP & DI
  - ⑯ VT 9 2+161.8 RT ~ 2+163.5 RT  
REMOVE EXISTING 150 mm CSP & DI
  - ⑰ VT 9 2+161.7 RT ~ 2+167.4 RT  
REMOVE EXISTING 375 mm RCP & DI
  - ⑱ VT 9 2+167.7 RT ~ 2+173.4 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ⑲ VT 9 2+162.1 LT ~ 2+173.2 LT  
REMOVE EXISTING 375mm RCP & DI
  - ⑳ VT 9 2+157.0 LT ~ 2+161.4 LT  
REMOVE EXISTING 375 mm RCP & DI
  - ㉑ VT 9 2+147.5 LT ~ 2+156.4 LT  
REMOVE EXISTING 375 mm RCP & DI
  - ㉒ VT 9 2+173.8 LT ~ 2+190.9 LT  
REMOVE EXISTING 450 mm RCP & DI
  - ㉓ VT 9 2+191.6 LT ~ 2+242.5 LT  
RETAIN EXISTING 450 mm RCP & REMOVE DI

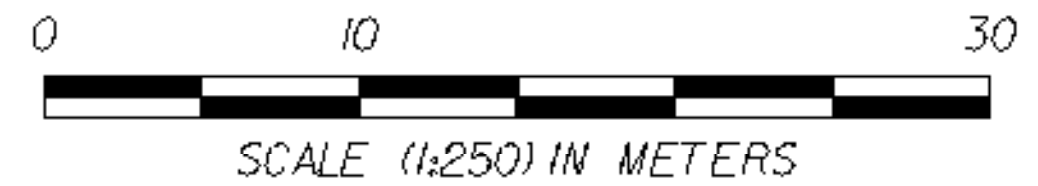
HANDICAP ACCESS RAMPS

NEW PRECAST DI W/GRATE STA. 2+163.5 RT

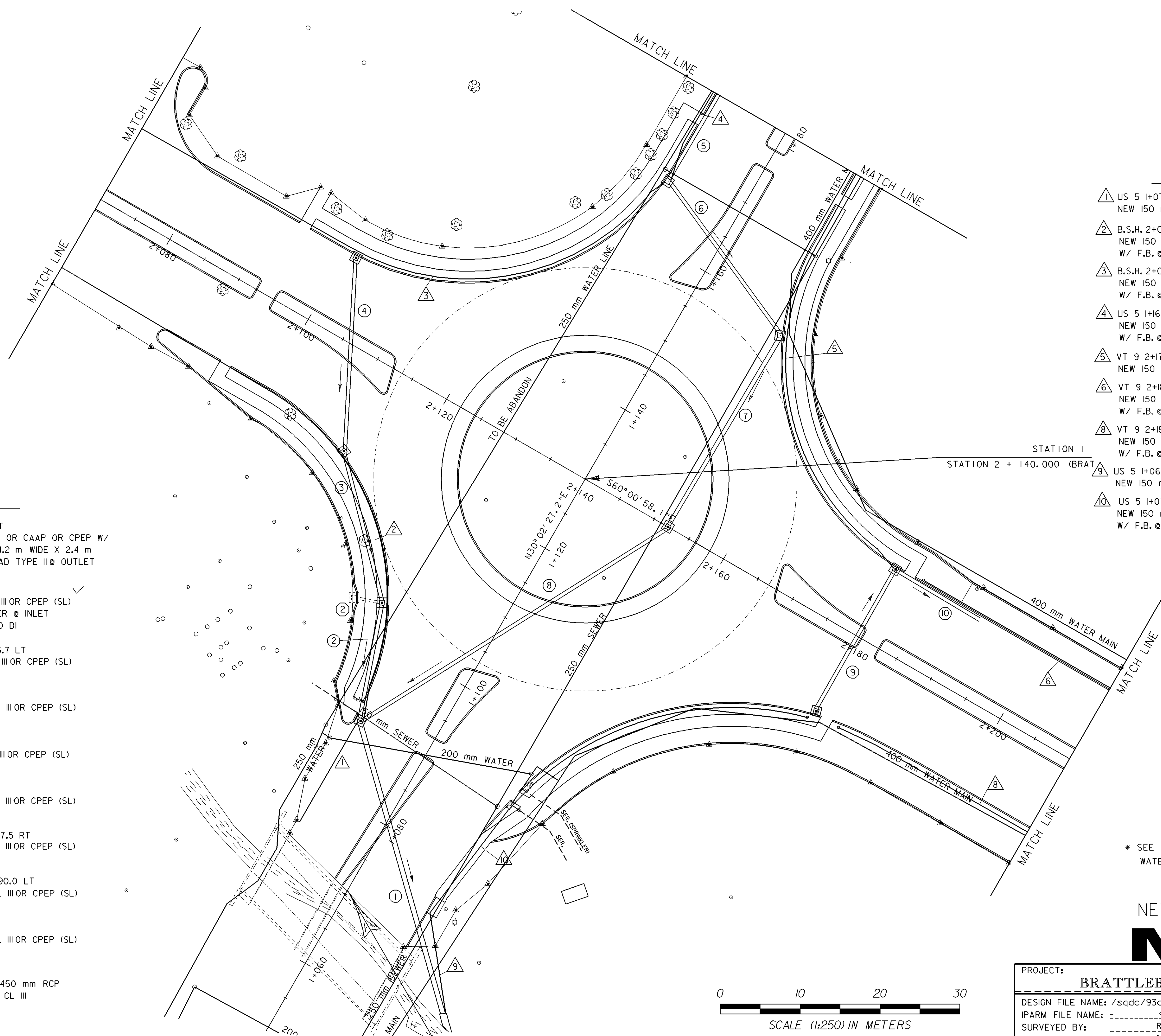
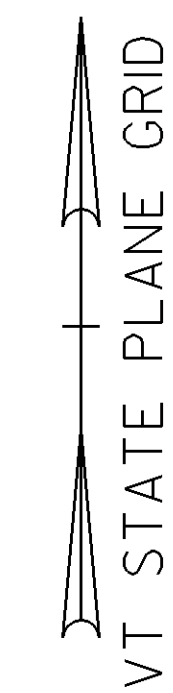
STATION 1  
STATION 2 + 140.000 (BRAT)

\* SEE SHEET 34 FOR NEW WATERLINE LOCATION

LAYOUT--EXISTING DRAINAGE



PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	zsqdc/93d191/dd191bdr.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191d11	SURVEY DATE:	10-95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPMAL
SQUAD LEADER:	S. MENARD	SHEET:	28 OF 67



- UNDERDRAIN**
- ① US 5 I+075.0 LT ~ I+090.0 LT  
NEW 150 mm x 15 m UNDERDRAIN
  - ② B.S.H. 2+055.0 RT ~ US 5 I+090.5 LT  
NEW 150 mm x 92 m UNDERDRAIN  
W/ F.B. @ 2+055.0 RT
  - ③ B.S.H. 2+052.0 LT ~ US 5 I+167.5 LT  
NEW 150 mm x 92 m UNDERDRAIN  
W/ F.B. @ 2+052.0 LT
  - ④ US 5 I+167.5 LT ~ I+215.0 LT  
NEW 150 mm x 47 m UNDERDRAIN  
W/ F.B. @ I+215.0 LT
  - ⑤ VT 9 2+179.1 LT ~ US 5 I+215.0 RT  
NEW 150 mm x 90 m UNDERDRAIN
  - ⑥ VT 9 2+183.0 LT ~ 2+225.0 LT  
NEW 150 mm x 42 m UNDERDRAIN  
W/ F.B. @ 2+183.0 LT
  - ⑧ VT 9 2+183.0 RT ~ 2+243.0 RT  
NEW 150 mm x 60 m UNDERDRAIN  
W/ F.B. @ 2+183.0 RT
  - ⑨ US 5 I+063.0 RT ~ I+073.3 RT  
NEW 150 mm x 13 m CARRIER PIPE
  - ⑩ US 5 I+073.3 RT ~ VT 9 2+179.0 RT  
NEW 150 mm x 58 m UNDERDRAIN  
W/ F.B. @ 2+179.0 RT

- NEW DRAINAGE**
- ① US 5 I+062.7 RT ~ I+090.0 LT  
NEW 600 mm X 38 m PCCPSP OR CAAP OR CPEP W/  
NEW 1.2 X 1.2 RCDI @ INLET & 1.2 m WIDE X 2.4 m  
LONG X 0.6 m DEEP STONE PAD TYPE II @ OUTLET
  - ② US 5 I+090.6 LT ~ I+103.4 LT  
NEW 450 mm X 14 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI W/ C.I. COVER @ INLET  
CONNECT EXISTING PIPE ② TO DI
  - ③ B.S.H. 2+112.0 RT ~ US 5 I+103.7 LT  
NEW 450 mm X 19 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ④ B.S.H. 2+101.5 LT ~ 2+111.9 RT  
NEW 450 mm X 24 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑤ US 5 I+167.5 LT ~ I+238.7 LT  
NEW 450 mm X 71 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑥ US 5 I+157.8 RT ~ I+167.5 LT  
NEW 450 mm X 24 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑦ VT 9 2+152.0 C.L. ~ US 5 I+167.5 RT  
NEW 450 mm X 37 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑧ VT 9 2+152.3 C.L. ~ US 5 I+090.0 LT  
NEW 450 mm X 45 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑨ VT 9 2+179.4 LT ~ RT  
NEW 450 mm X 20 m RCP CL III OR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑩ VT 9 2+179.4 LT ~ 2+191.1 LT  
EXTEND & CONNECT EXISTING 450 mm RCP  
W/ NEW 450 mm X 12 m RCP CL III

\* SEE SHEET 34 FOR NEW WATERLINE LOCATION

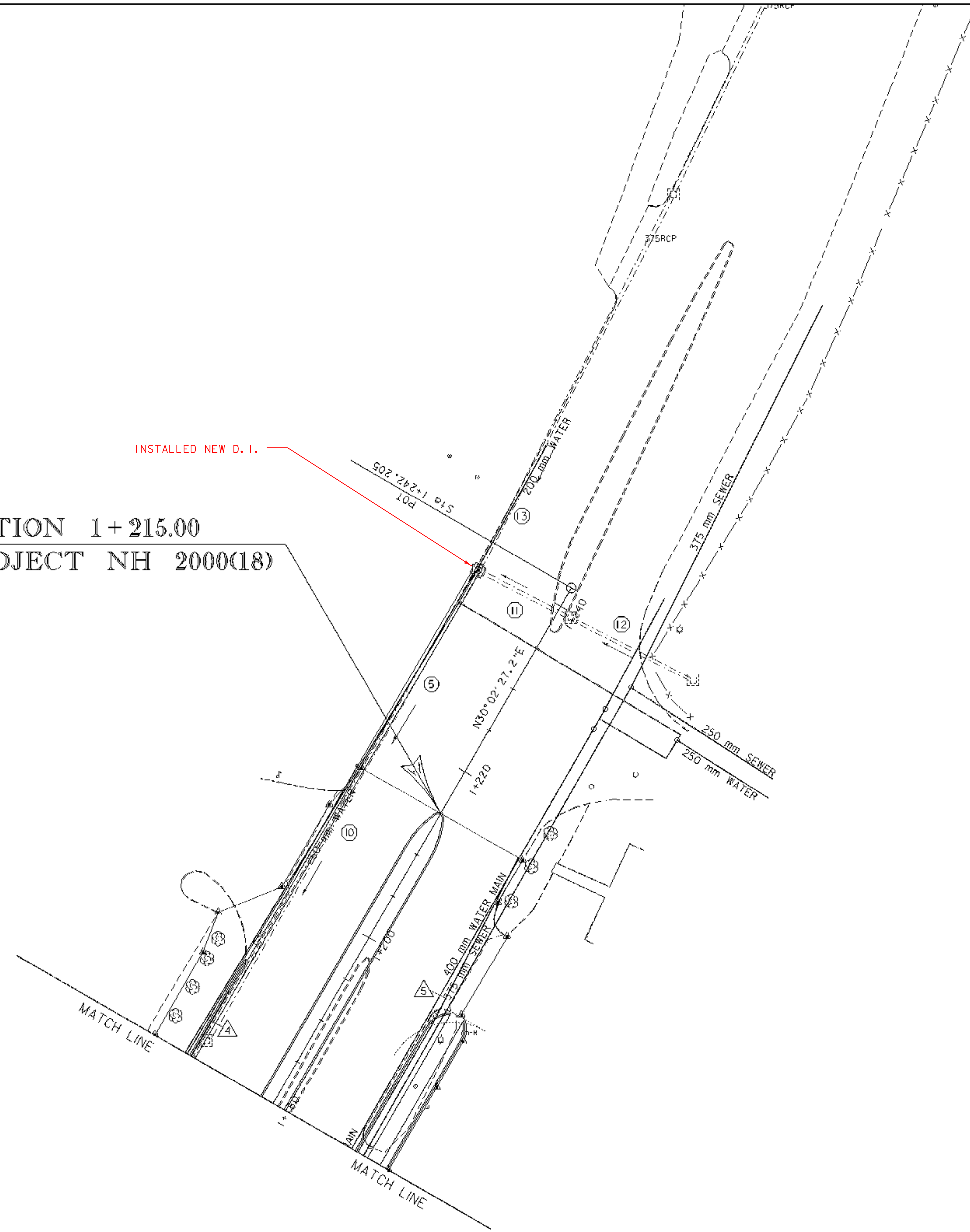
NEW DRAINAGE  
**Metric**



PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	/sqdc/93d191/d191bdr.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	d191d12.i	SURVEY DATE:	10-95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPMAL
SQUAD LEADER:	S. MENARD	SHEET:	29 OF 67

STATION 1+215.00  
END PROJECT NH 2000(18)

INSTALLED NEW D. I.

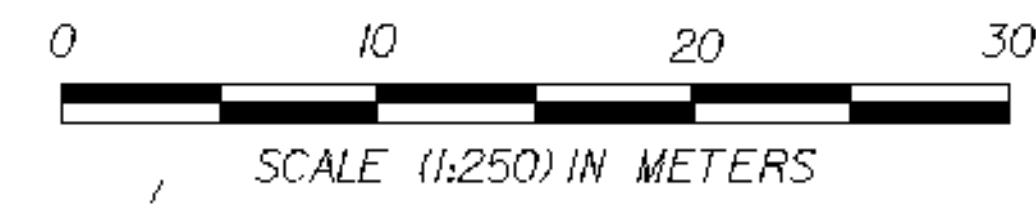


- EXISTING DRAINAGE
- ⑩ US 5 1+182.6 LT ~ 1+238.6 LT  
REMOVE EXISTING 375 mm RCP & DI
  - ⑪ US 5 1+238.8 LT ~ 1+239.4 RT SEE BELOW  
RETAIN EXISTING 300 mm RCP & DI
  - ⑫ US 5 1+239.6 RT ~ 1+240.0 RT  
RETAIN EXISTING 300 mm RCP & DI
  - ⑬ US 5 1+239.2 LT  
RETAIN EXISTING 375 mm RCP & DI

- NEW DRAINAGE
- ⑤ US 5 1+167.5 LT ~ 1+238.7 LT  
NEW 450 mm X 71m RCP CL IIIOR CPEP (SL)  
NEW 1.2 X 1.2 RCDI @ INLET
  - ⑪ REMOVE EXISTING 300 MM PIPE  
INSTALL NEW 450MM CPEP (SL)

- UNDERDRAIN
- △ 4 US 5 1+167.5 LT ~ 1+215.0 LT 1+210 LT  
NEW 150 mm X 47 m UNDERDRAIN  
W/ F.B. @ 1+215.0 LT 1+210 LT
  - △ 5 VT 9 2+179.1 LT ~ US 5 1+215.0 RT 1+195 RT  
NEW 150 mm X 90 m UNDERDRAIN

LAYOUT--EXISTING & NEW DRAINAGE



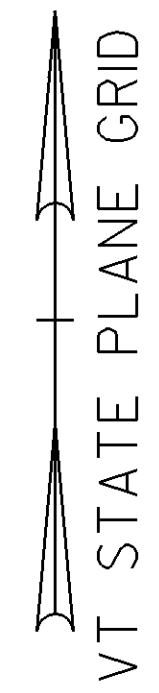
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DESIGN FILE NAME: /sqdc/93d191/dd191bdr.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191d13j.....	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 30 OF 67

TO  
SOUTHBOUND  
INTERSTATE 91

FROM  
INTERSTATE 91  
SOUTHBOUND

TO  
INTERSTATE 91  
NORTHBOUND

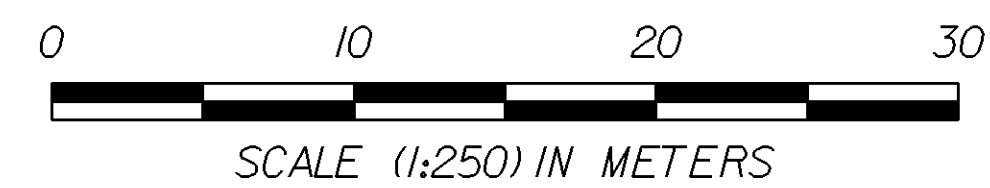
STATION 1+980.00  
BEGIN APPROACH CONSTRUCTION



FROM  
INTERSTATE 91  
NORTHBOUND

EXISTING ISLANDS  
TO BE REMOVED

- UNDERDRAIN
- △ B.S.H. 2+055.0 RT ~ US 5 I+090.5 LT  
NEW 150 mm X 92 m UNDERDRAIN  
W/ F.B. @ 2+055.0 RT
  - △ B.S.H. 2+052.0 LT ~ US 5 I+167.5 LT  
NEW 150 mm X 92 m UNDERDRAIN  
W/ F.B. @ 2+052.0 LT



LAYOUT--EXISTING & NEW DRAINAGE



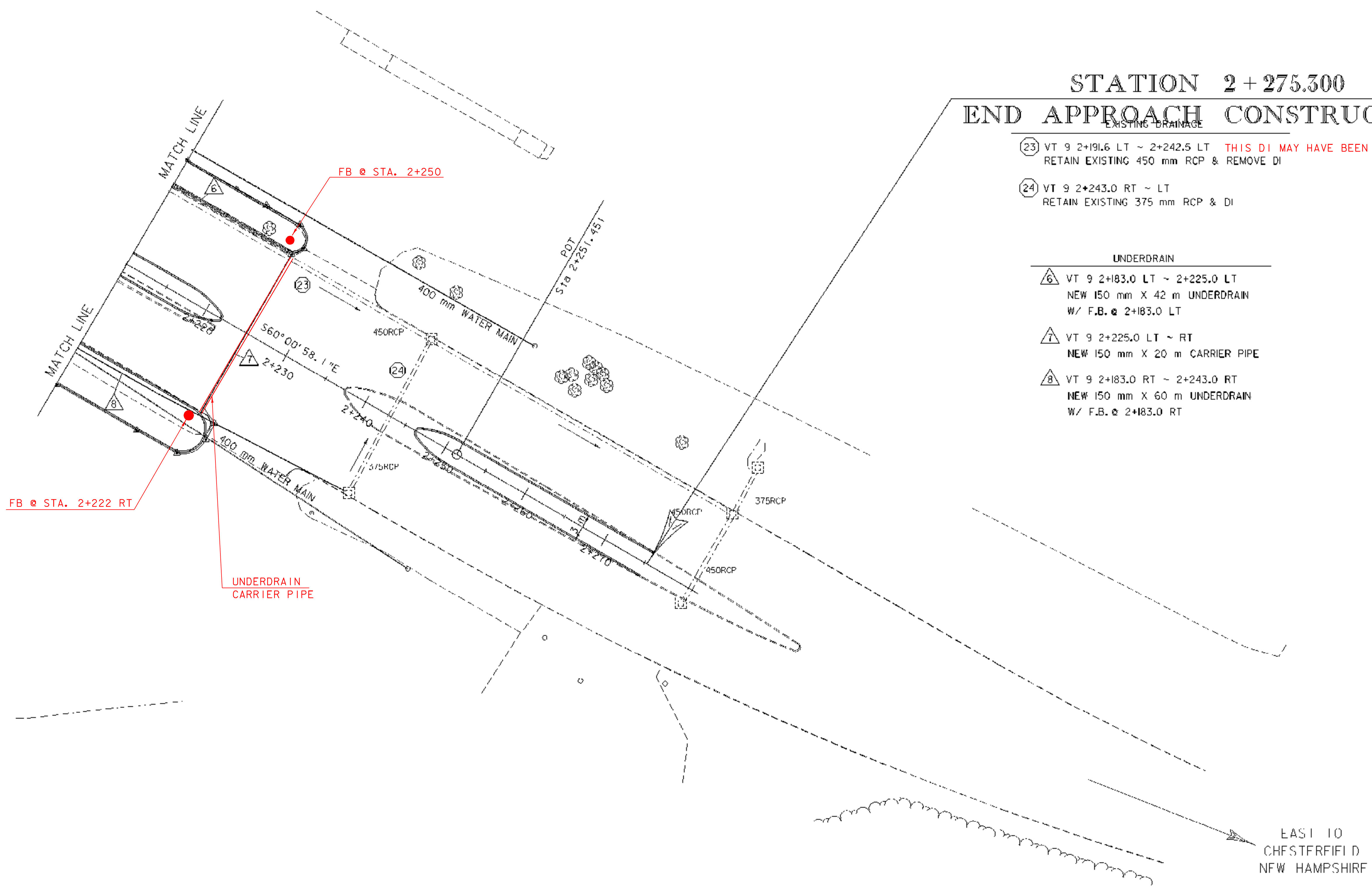
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DESIGN FILE NAME:	/sqdc/93d191/dd191bdr.dgn		
IPARM FILE NAME:	dd191d14.d	PLOT DATE:	8-APR-1999
SURVEYED BY:	R. GILMAN	SURVEY DATE:	10-95
SQUAD LEADER:	S. MENARD	DRAWN BY:	K. UPMAL
		SHEET:	31 OF 67

VT STATE PLANE GRID

### STATION 2 + 275.300 END APPROACH CONSTRUCTION

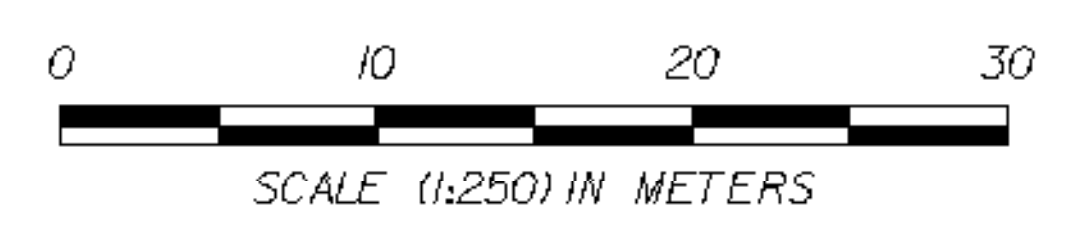
- 23 VT 9 2+191.6 LT ~ 2+242.5 LT THIS DI MAY HAVE BEEN LEFT IN PLACE?!  
RETAIN EXISTING 450 mm RCP & REMOVE DI
- 24 VT 9 2+243.0 RT ~ LT  
RETAIN EXISTING 375 mm RCP & DI

- UNDERDRAIN
- 6 VT 9 2+183.0 LT ~ 2+225.0 LT  
NEW 150 mm X 42 m UNDERDRAIN  
W/ F.B. @ 2+183.0 LT
  - 7 VT 9 2+225.0 LT ~ RT  
NEW 150 mm X 20 m CARRIER PIPE
  - 8 VT 9 2+183.0 RT ~ 2+243.0 RT  
NEW 150 mm X 60 m UNDERDRAIN  
W/ F.B. @ 2+183.0 RT



EAST 10  
CHESTERFIELD  
NEW HAMPSHIRE

LAYOUT--EXISTING & NEW DRAINAGE

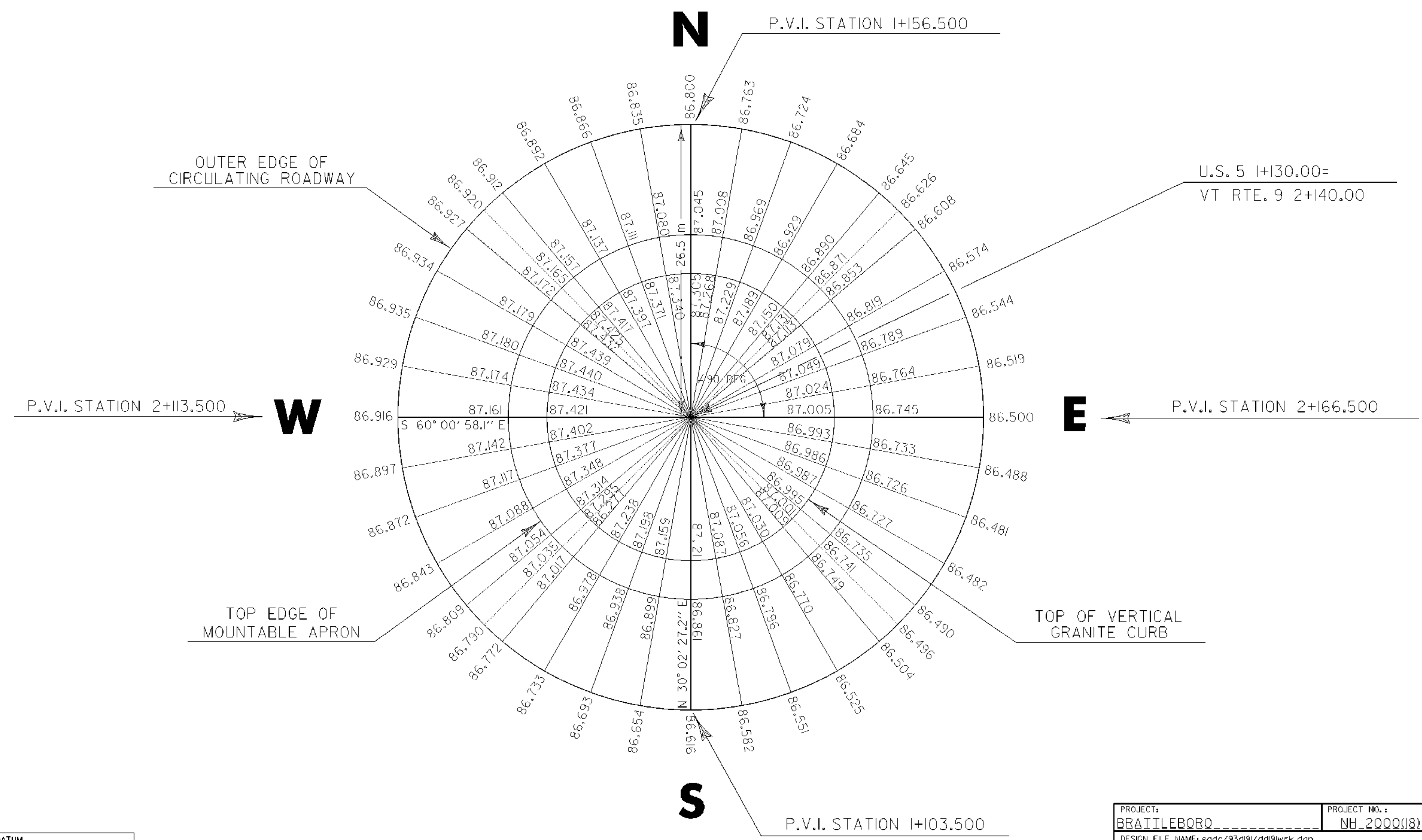


PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
DESIGN FILE NAME:	/sqdc/93dl91/dl91bdr.dgn		
IPARM FILE NAME:	dd91d5j	PLOT DATE:	8-APR-1999
SURVEYED BY:	R. GILMAN	SURVEY DATE:	10-95
SQUAD LEADER:	S. MENARD	DRAWN BY:	K. UPMAL
		SHEET:	32 OF 67



# RADIAL ELEVATIONS FOR CIRCULATING ROADWAY

ALL 10 DEG INCREMENTS TURNED FROM NORTHERN P.V.I. AT STATION 1+156.500  
OTHER P.V.I.'S ARE TO BE LOCATED FROM THEIR RESPECTIVE ALIGNMENTS



DATUM	
VERTICAL	_____
HORIZONTAL	_____

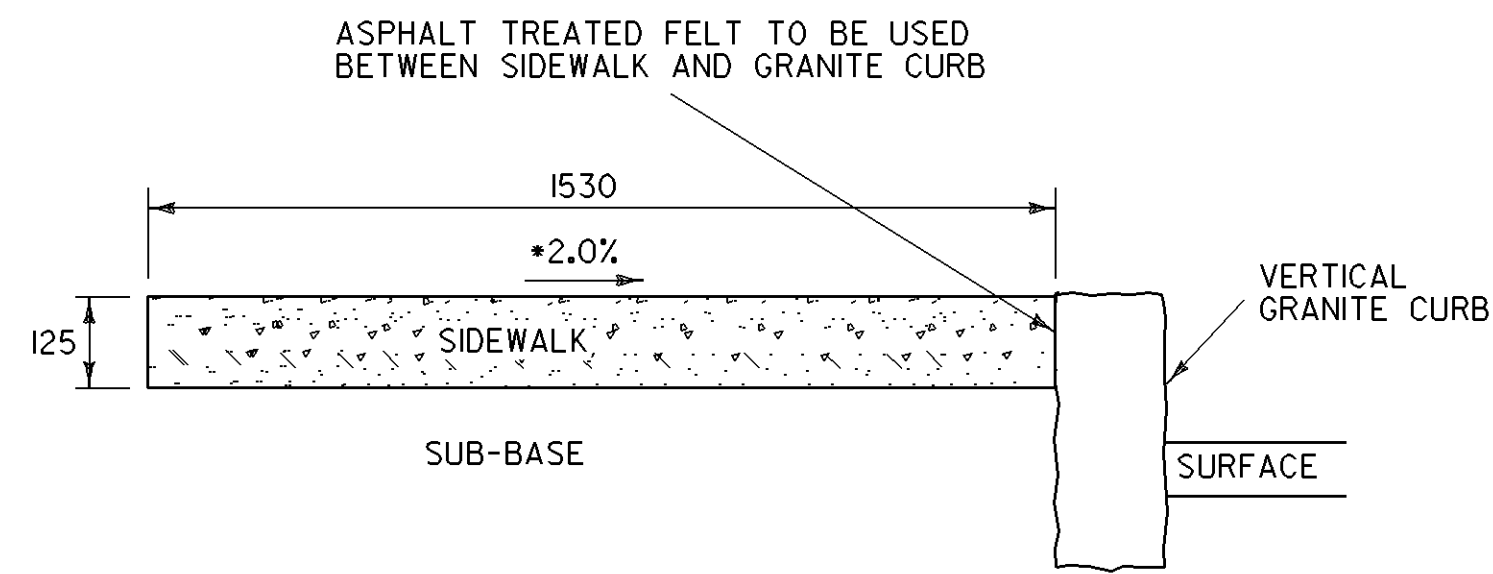
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DESIGN FILE NAME: sdc293d91zdd91wck.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd91ce.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: K. LUPMAL
SQUAD LEADER: S. MENARD	SHEET: 33 OF 67
REVISED 3-31-98	



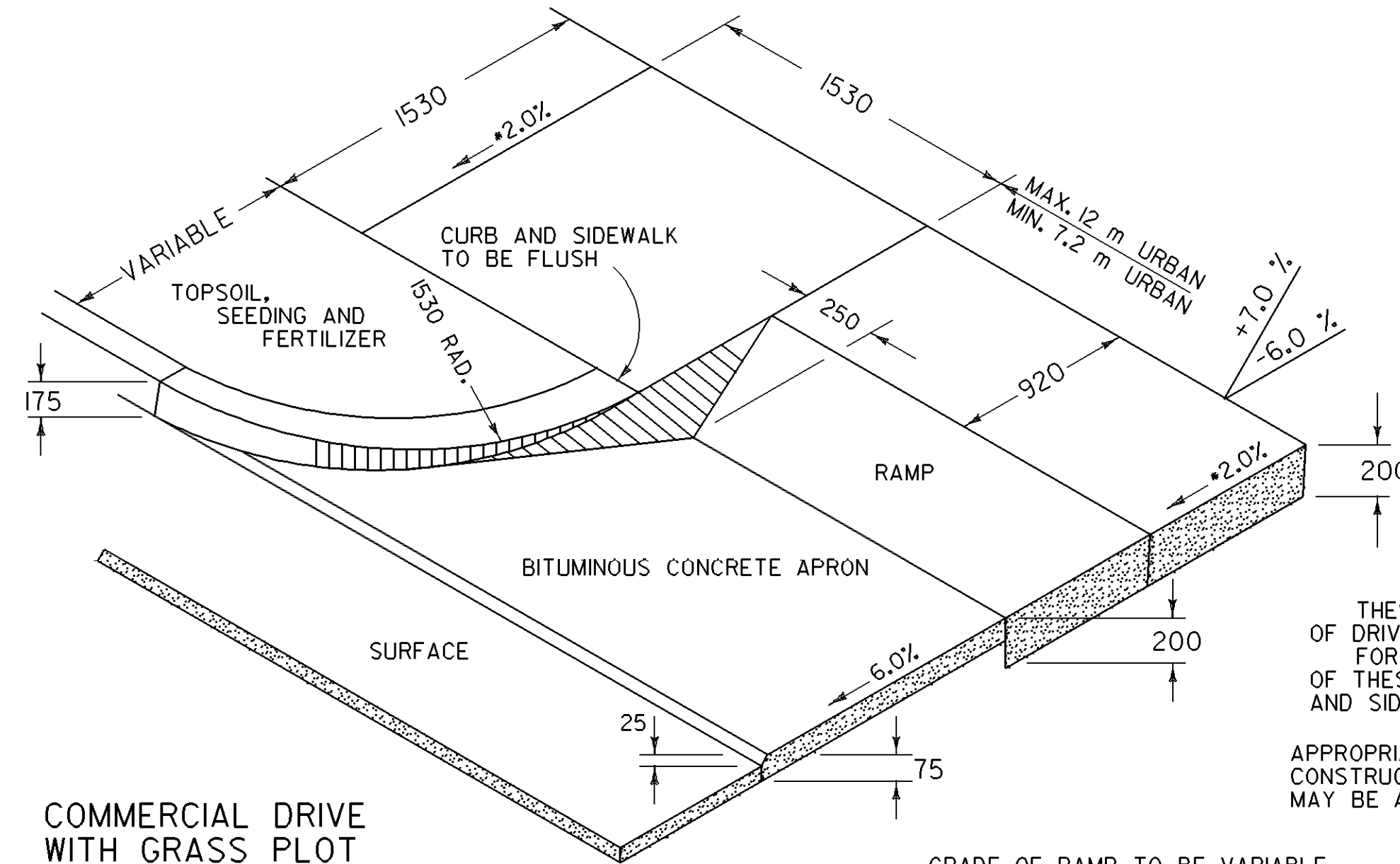




# PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH VERTICAL GRANITE CURB

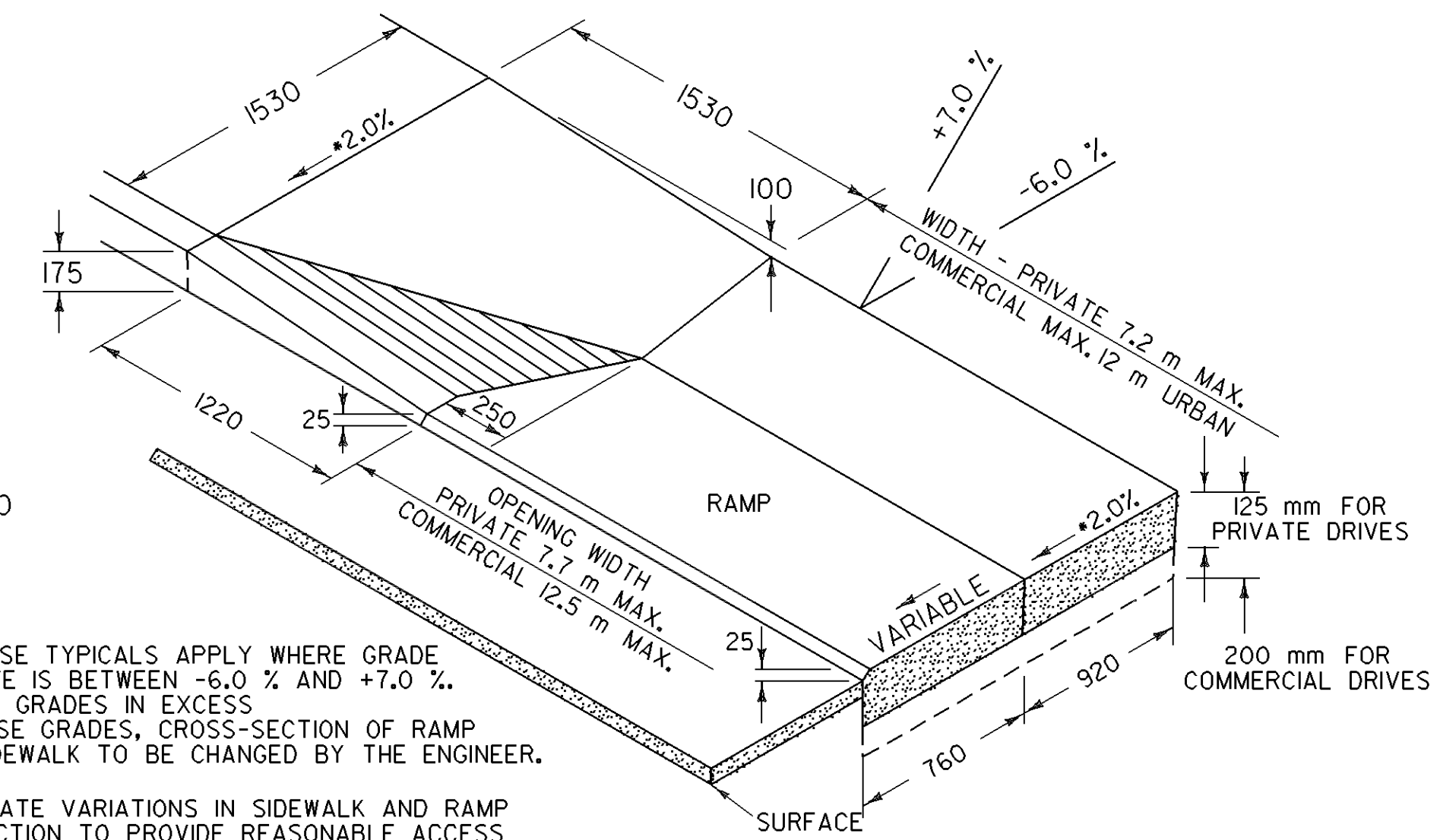


PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm  
( WITH VERTICAL GRANITE CURB )



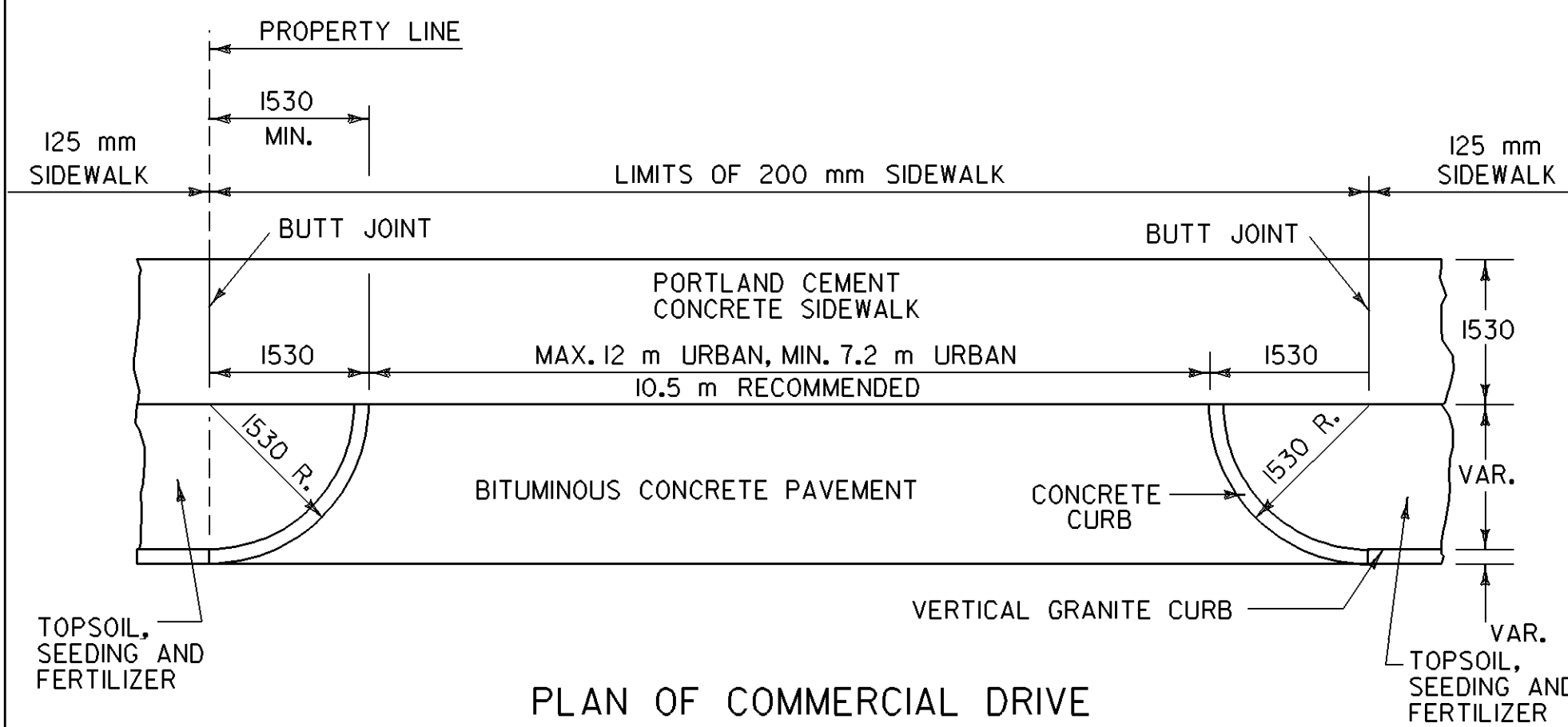
COMMERCIAL DRIVE  
WITH GRASS PLOT  
AND CONCRETE  
RADIUS CURB

GRADE OF RAMP TO BE VARIABLE  
TO MID POINT OF SIDEWALK. GRADE OF  
SIDEWALK TO BE +2.0%. CONSTRUCTION  
JOINT TO BE MADE WHERE RAMP MEETS  
REMAINDER OF SIDEWALK IN DRIVE AREA.

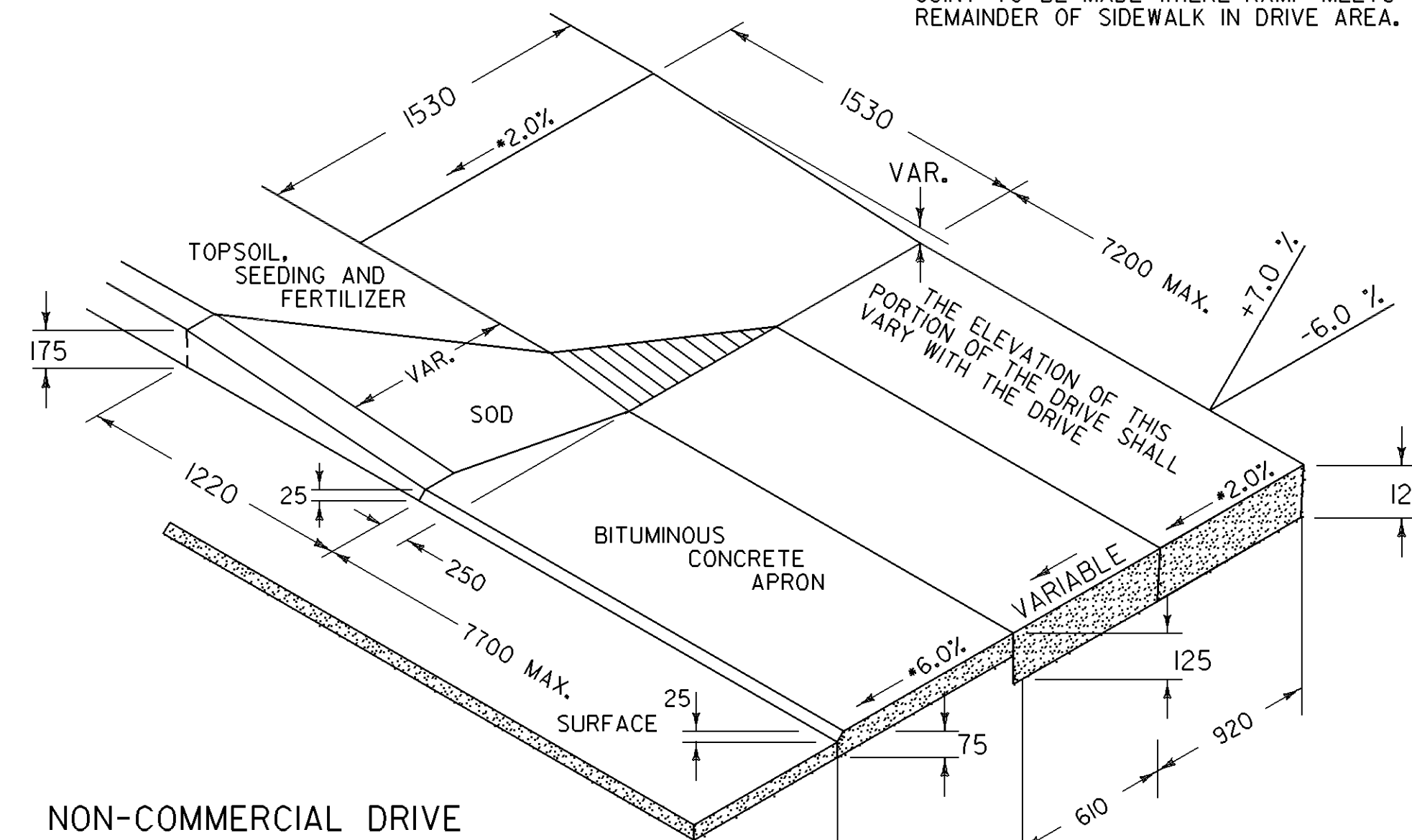


TYPICAL DRIVE WITH  
1530 mm SIDEWALK ADJACENT  
TO VERTICAL GRANITE CURB

THESE TYPICALS APPLY WHERE GRADE  
OF DRIVE IS BETWEEN -6.0 % AND +7.0 %.  
FOR GRADES IN EXCESS  
OF THESE GRADES, CROSS-SECTION OF RAMP  
AND SIDEWALK TO BE CHANGED BY THE ENGINEER.  
APPROPRIATE VARIATIONS IN SIDEWALK AND RAMP  
CONSTRUCTION TO PROVIDE REASONABLE ACCESS  
MAY BE AUTHORIZED BY THE ENGINEER.

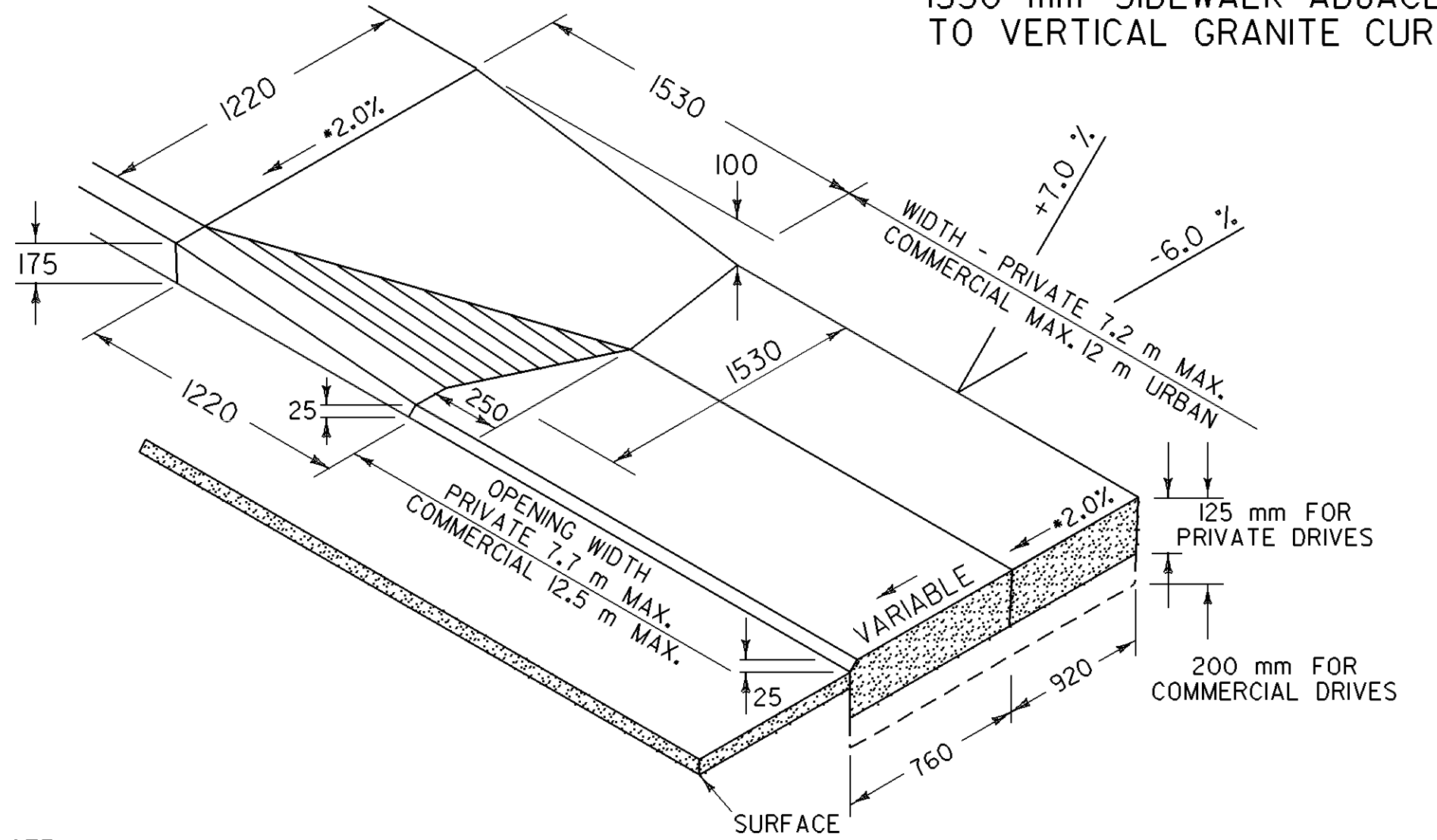


PLAN OF COMMERCIAL DRIVE

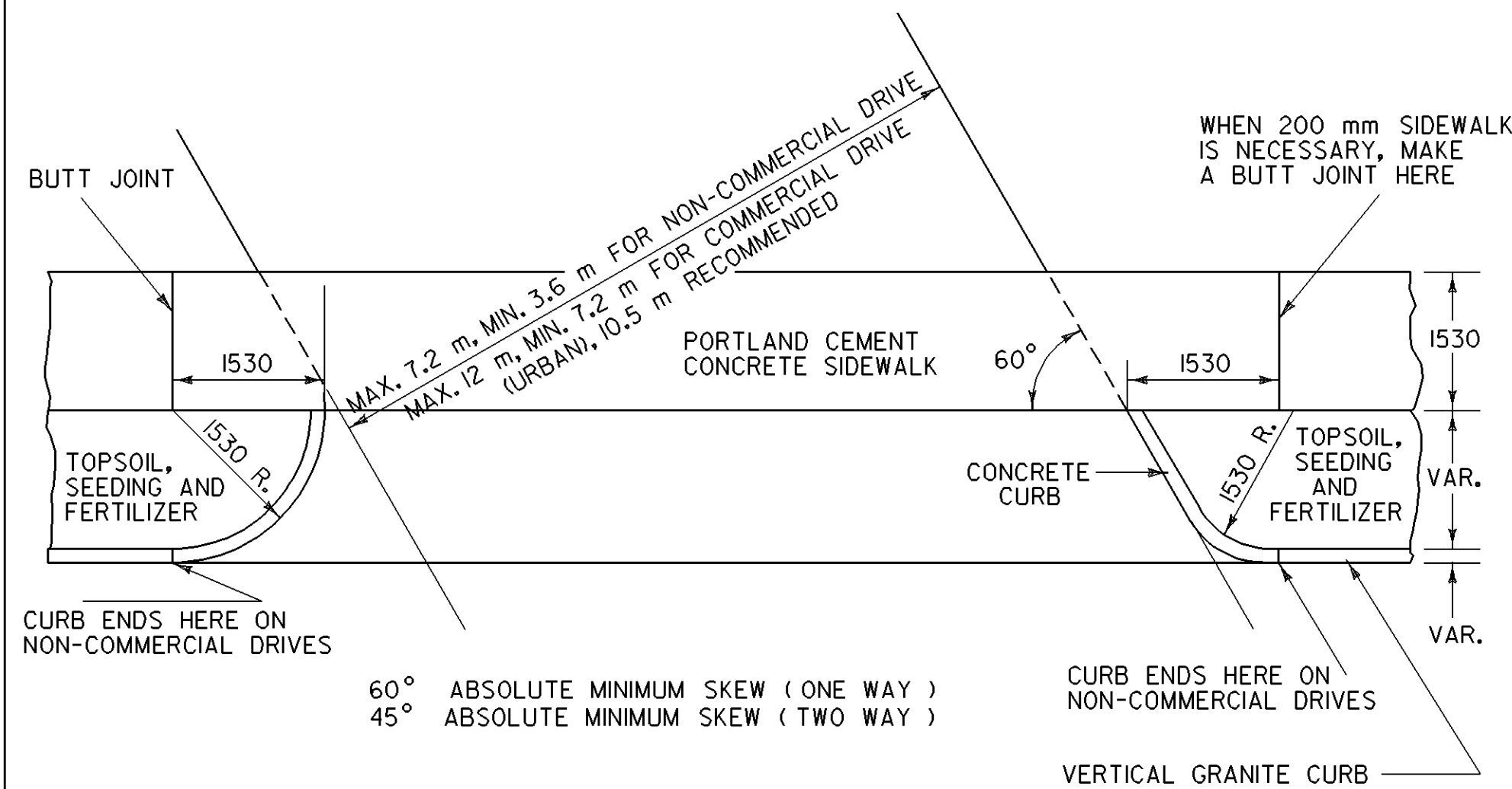


NON-COMMERCIAL DRIVE  
WITH GRASS PLOT AND  
VERTICAL GRANITE CURB

NOTE:  
SIDEWALKS THAT ARE LESS THAN 1530 mm  
WIDE MAY REQUIRE PASSING AREAS. SEE THE  
VAOT ROAD DESIGN MANUAL.

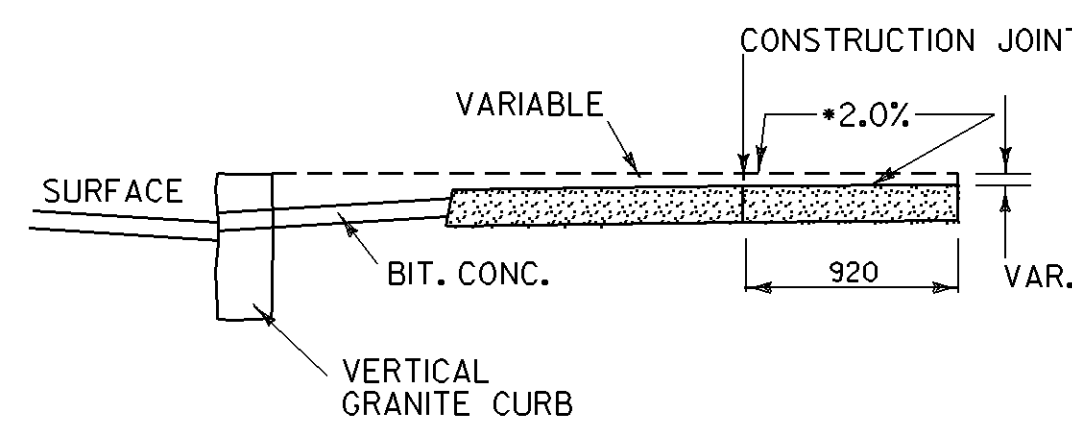


TYPICAL DRIVE WITH  
1220 mm SIDEWALK ADJACENT  
TO VERTICAL GRANITE CURB



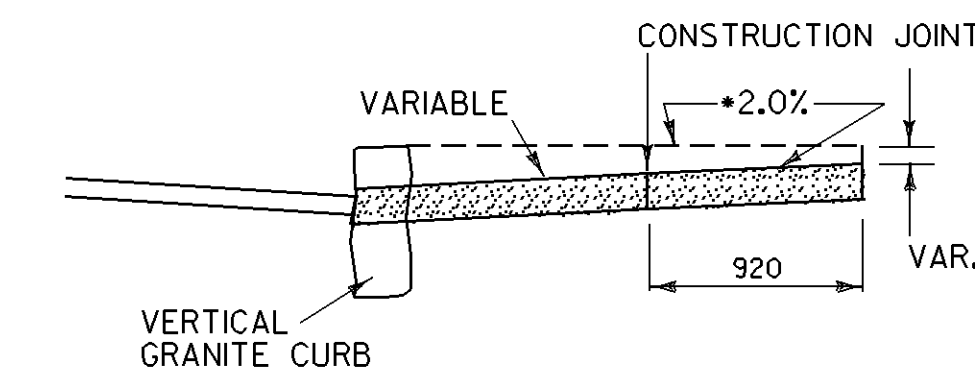
PLAN OF SKEW DRIVE

DISTANCE BETWEEN DOUBLE DRIVEWAYS  
3000 mm MINIMUM (URBAN)



RAMPS TO BE PAID FOR AS PORTLAND CEMENT  
CONCRETE SIDEWALK  
CONCRETE RADIUS CURB TO BE CONSTRUCTED  
WITH EITHER PRECAST REINFORCED CONCRETE CURB  
OR CAST-IN-PLACE CONCRETE CURB  
FOR FURTHER DETAILS REGARDING DRIVEWAYS,  
SEE STANDARD B-71M.

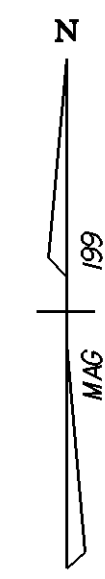
• IN NO CASE SHALL THE CROSS SLOPE OF  
AN ACCESSIBLE ROUTE EXCEED 2.0% .



NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

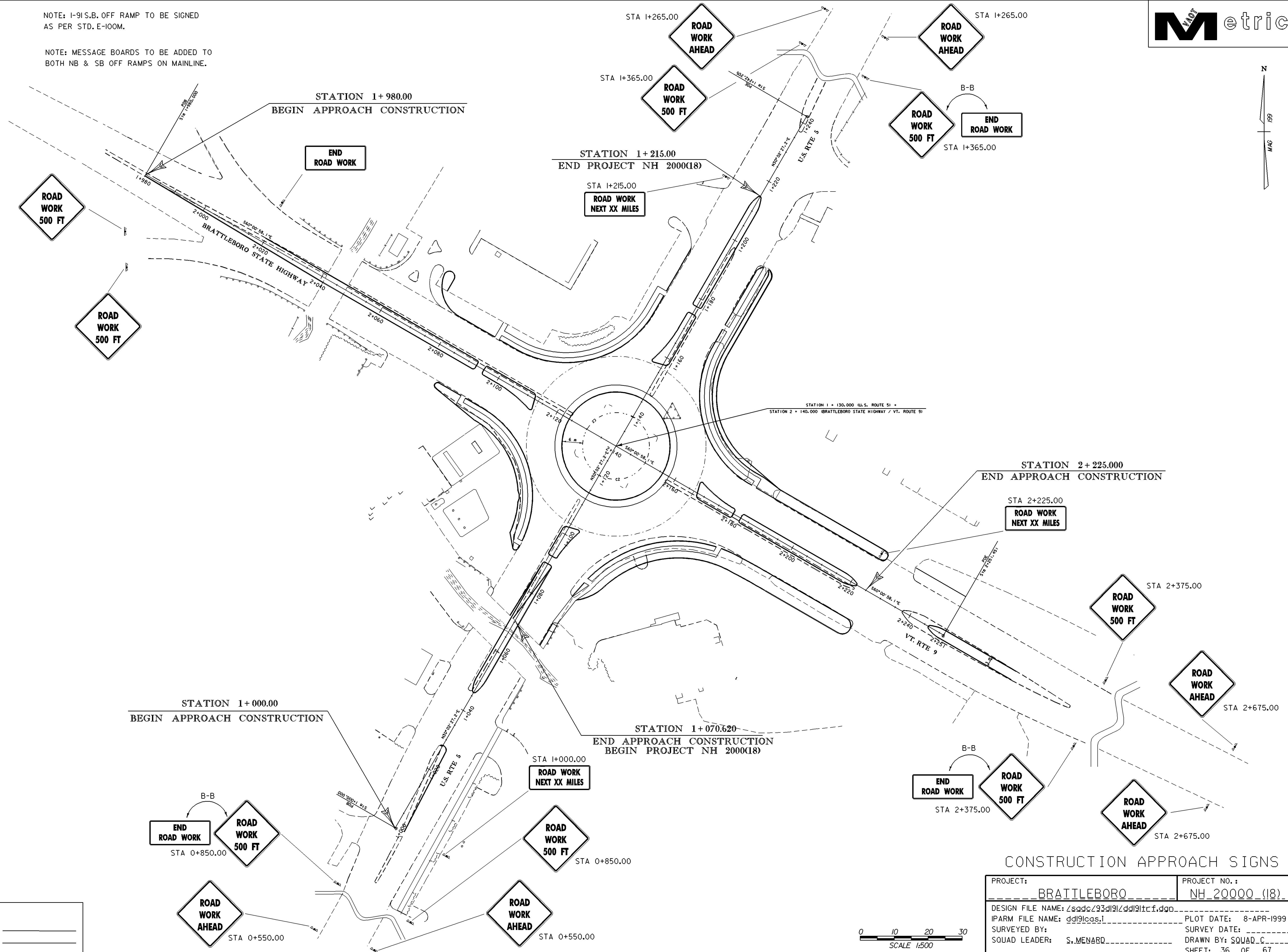
PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000(18)
DESIGN FILE NAME:	/sadc/93d191/dd191frm.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191csc.1	SURVEY DATE:	
SURVEYED BY:		DRAWN BY:	B. MCAVOY
SQUAD LEADER:	S. MENARD	SHEET:	35 OF 67

DATUM	
VERTICAL	
HORIZONTAL	



NOTE: I-91 S.B. OFF RAMP TO BE SIGNED AS PER STD. E-100M.

NOTE: MESSAGE BOARDS TO BE ADDED TO BOTH NB & SB OFF RAMP ON MAINLINE.



STATION 1+000.00  
BEGIN APPROACH CONSTRUCTION

STATION 1+980.00  
BEGIN APPROACH CONSTRUCTION

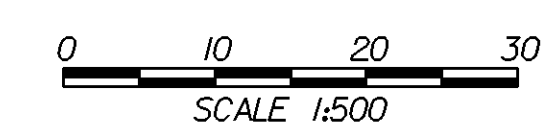
STATION 1+215.00  
END PROJECT NH 2000(18)

STATION 2+225.00  
END APPROACH CONSTRUCTION

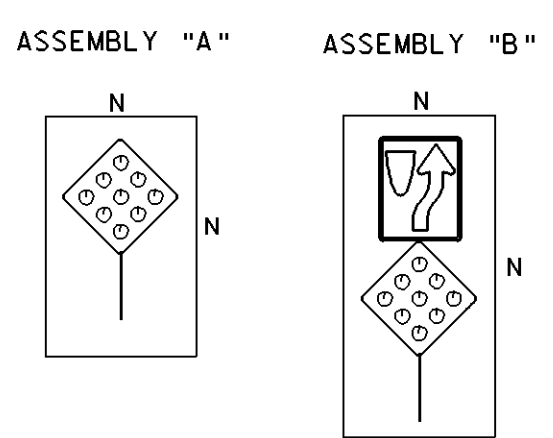
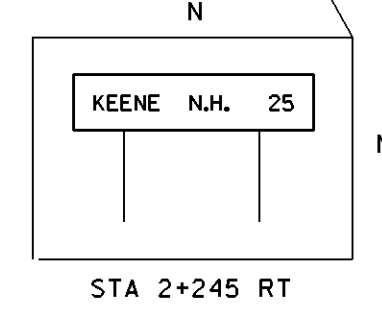
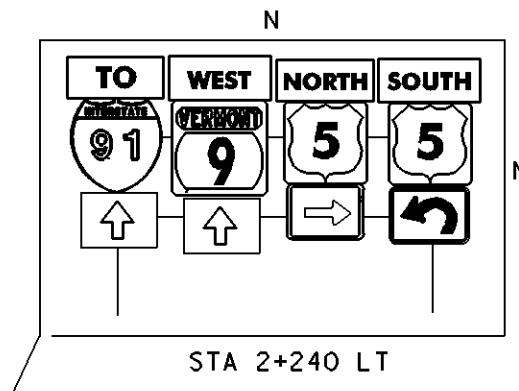
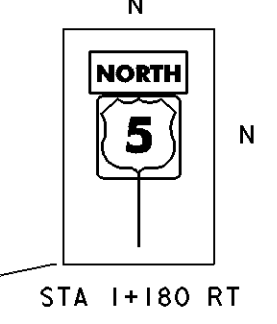
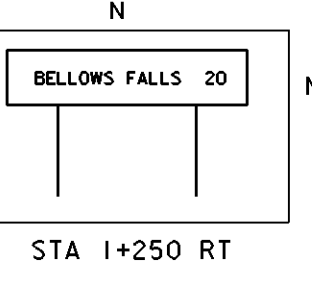
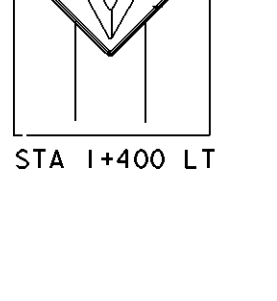
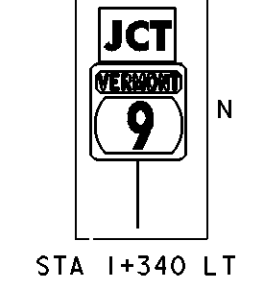
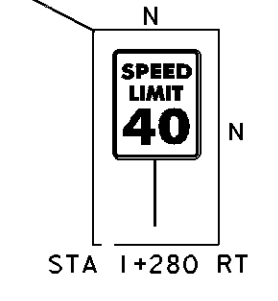
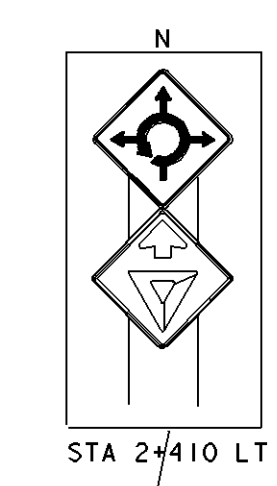
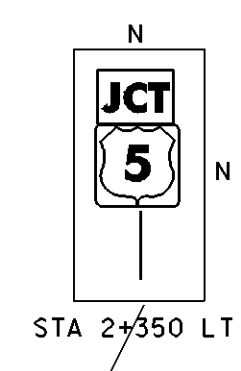
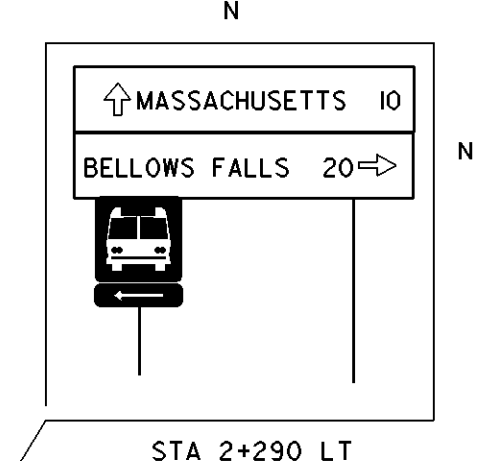
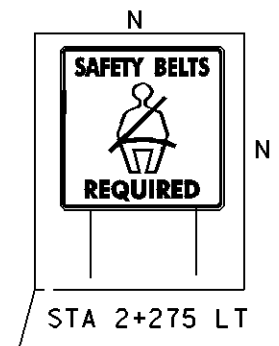
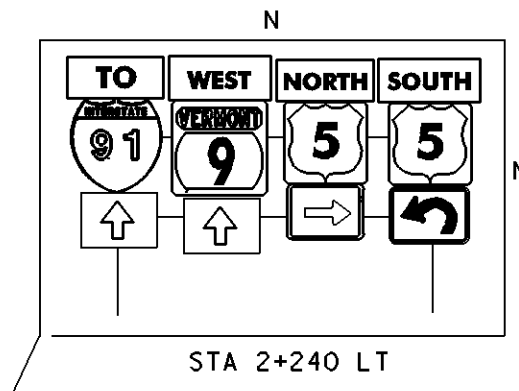
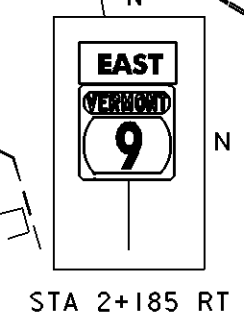
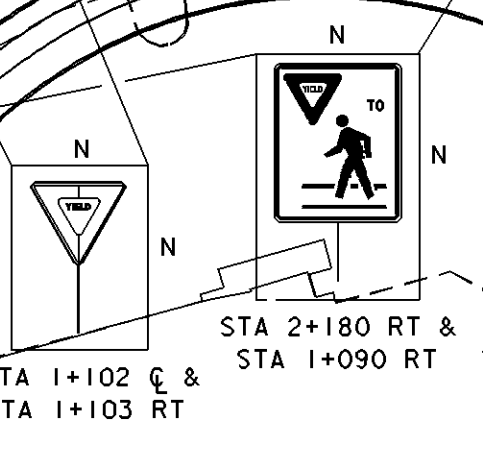
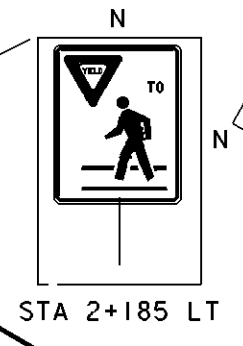
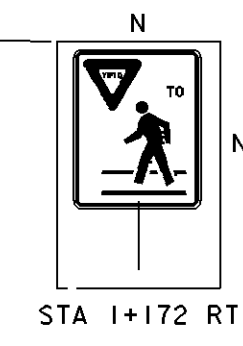
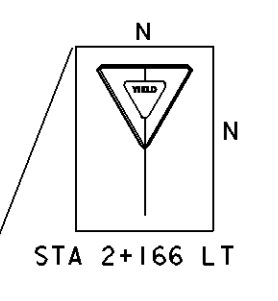
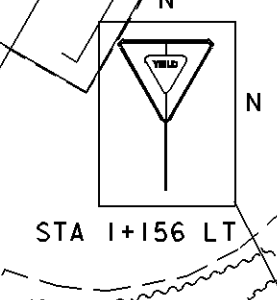
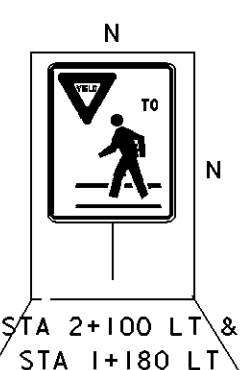
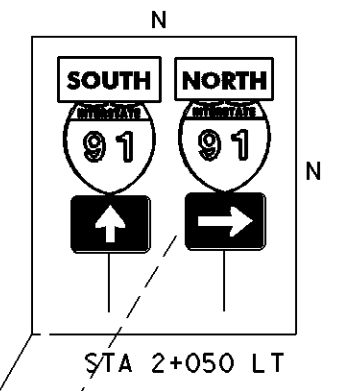
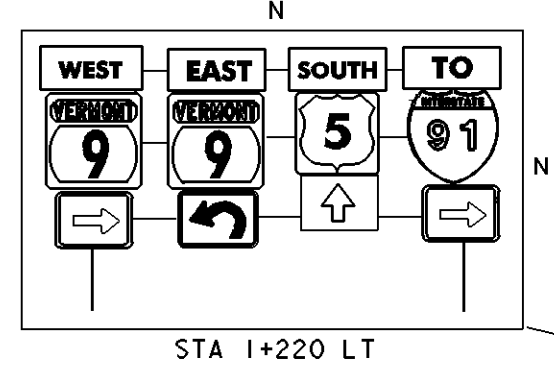
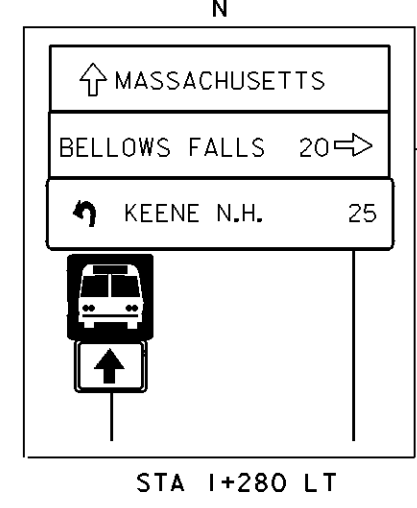
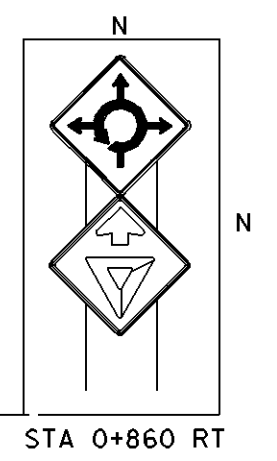
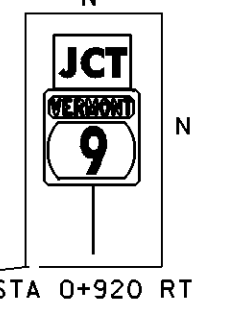
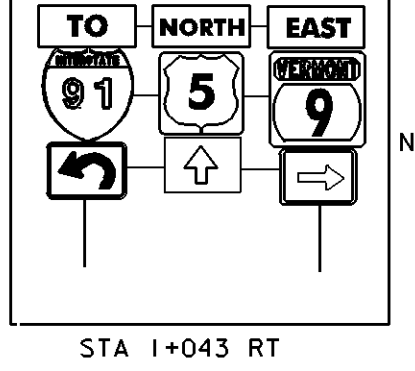
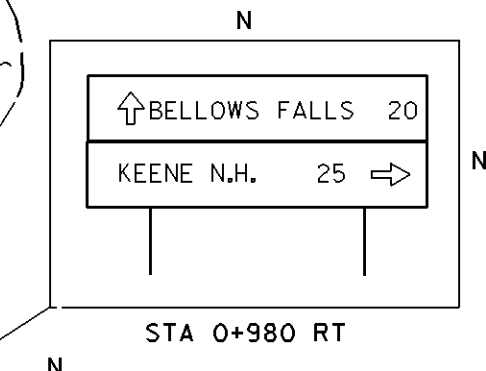
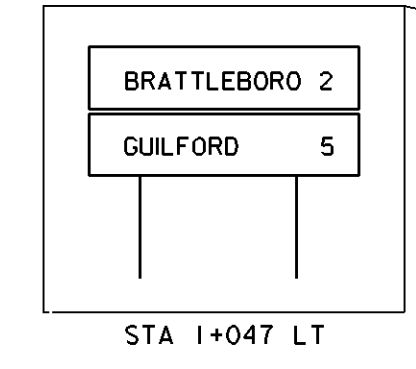
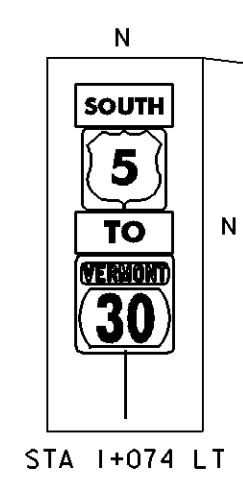
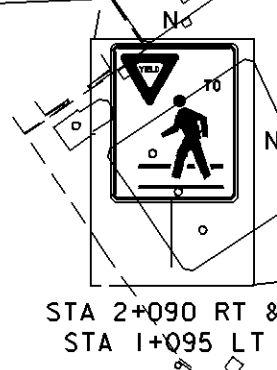
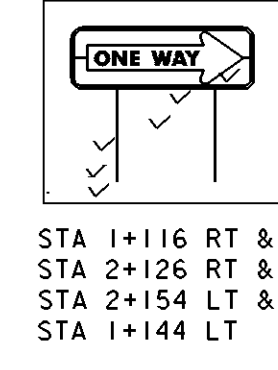
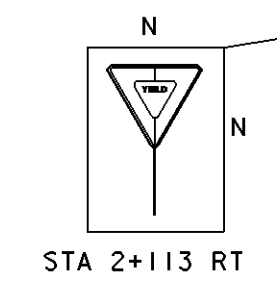
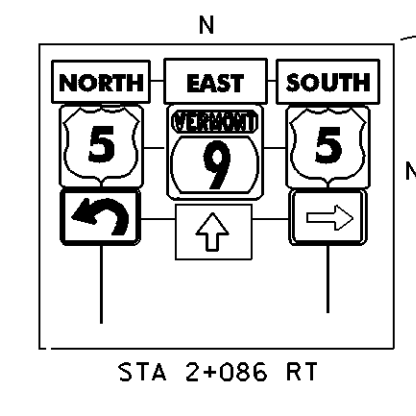
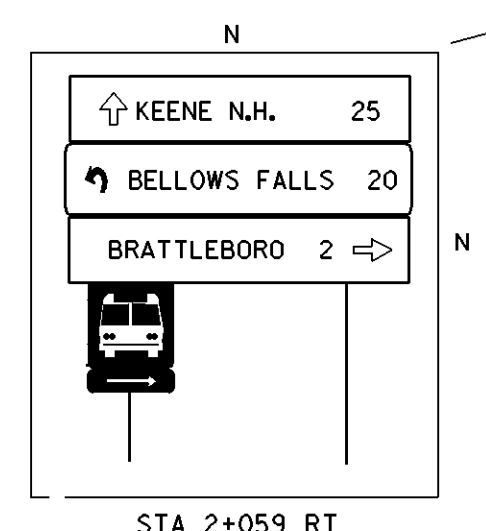
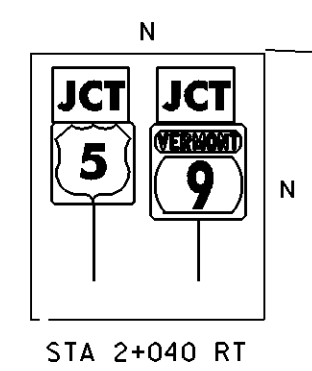
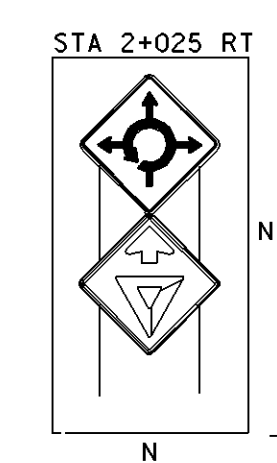
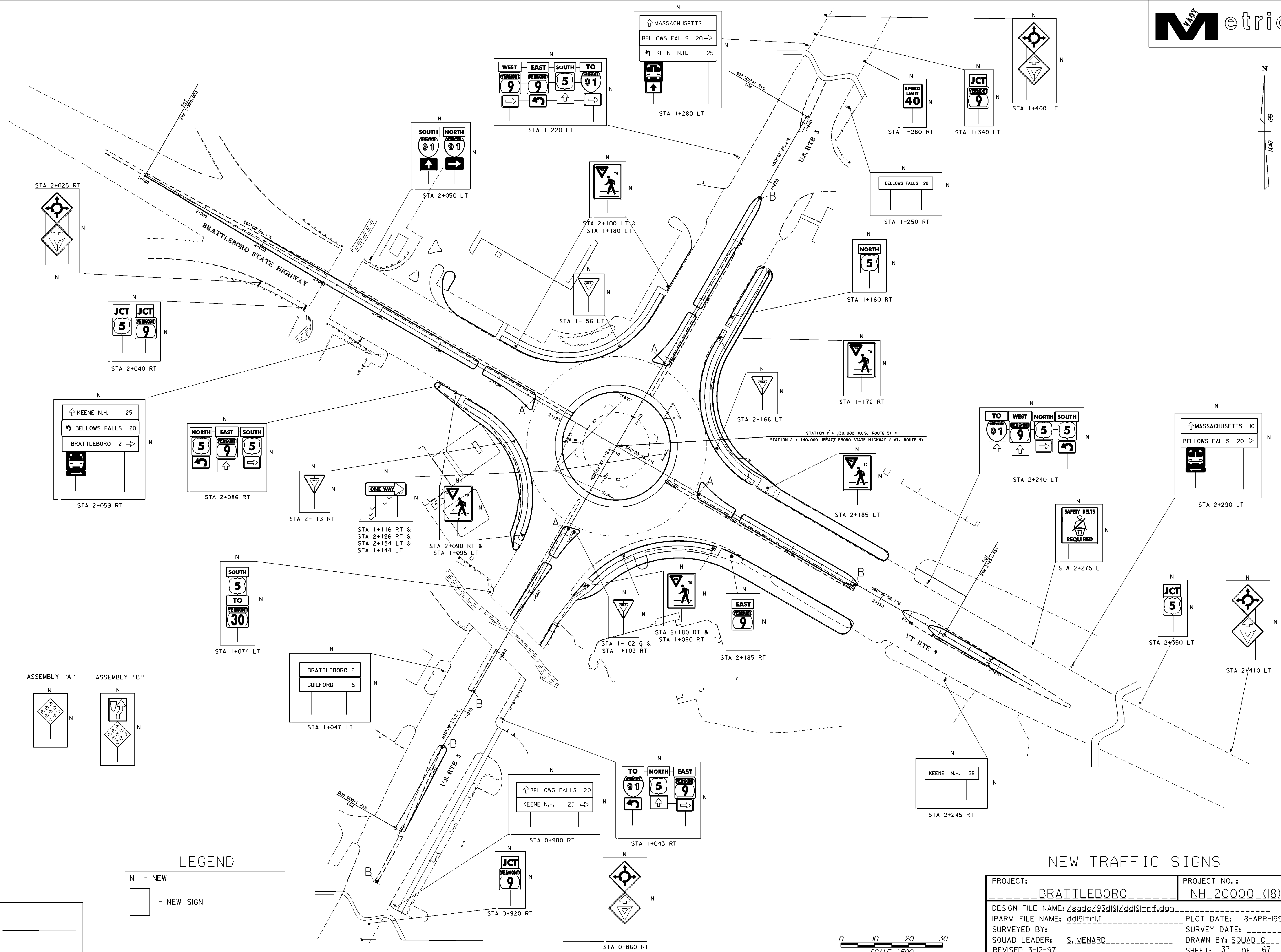
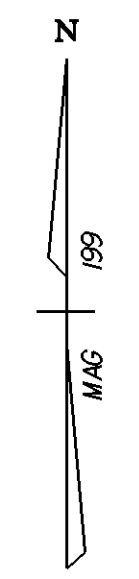
STATION 1+070.620  
END APPROACH CONSTRUCTION  
BEGIN PROJECT NH 2000(18)

CONSTRUCTION APPROACH SIGNS

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 20000 (18)
DESIGN FILE NAME:	zsqdc23d191zdd191tc.f.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191cgs.l	SURVEYED BY:	SURVEY DATE:
SQUAD LEADER:	S. MENARD	DRAWN BY:	SQUAD C
		SHEET:	36 OF 67



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



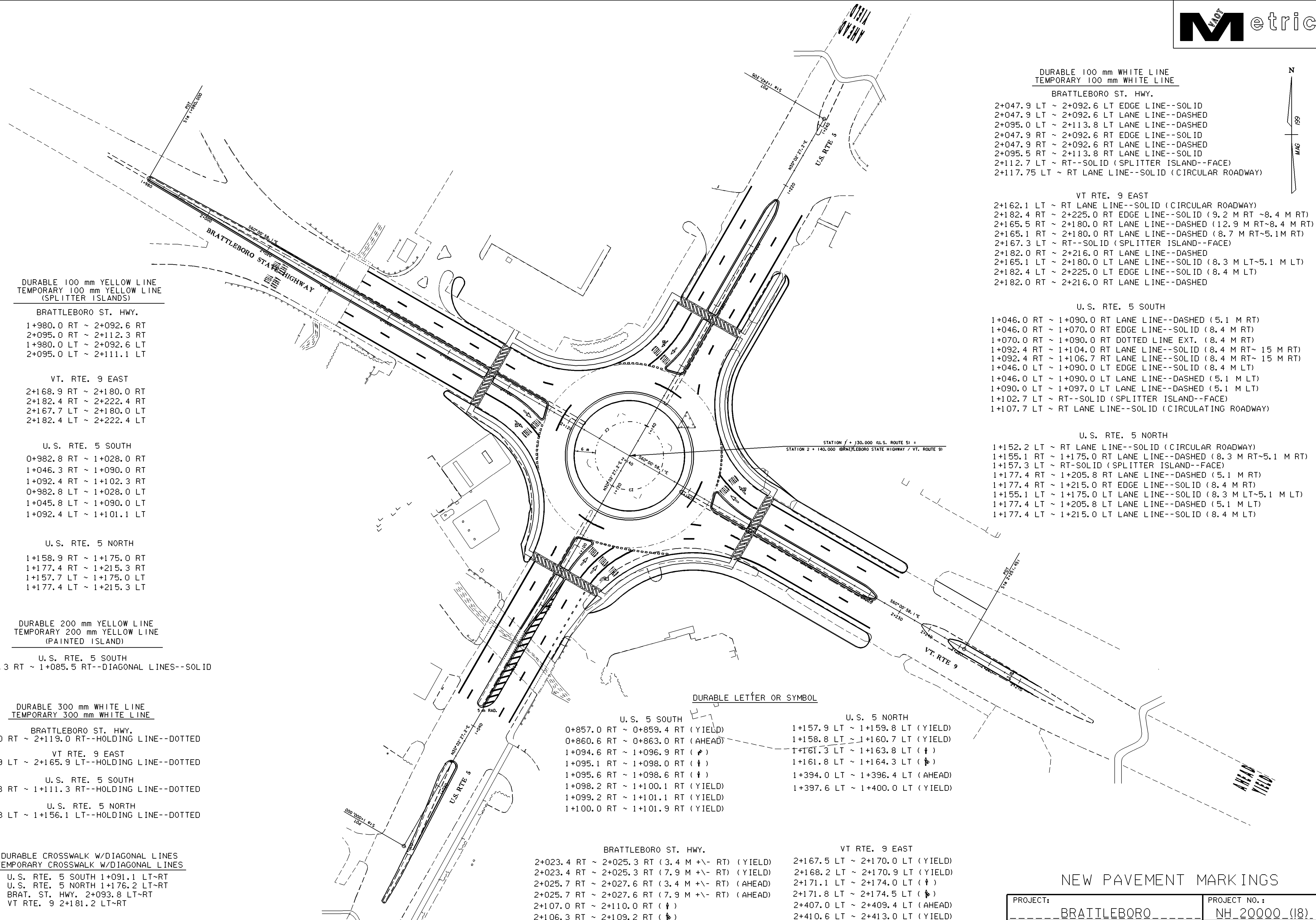
LEGEND  
N - NEW  
[Symbol] - NEW SIGN

DATUM  
VERTICAL \_\_\_\_\_  
HORIZONTAL \_\_\_\_\_



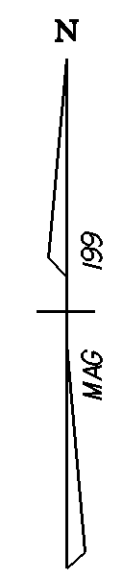
PROJECT: BRATTLEBORO		PROJECT NO.: NH_20000 (18)	
DESIGN FILE NAME: Zsdc293d191zdd191tc.f.dwg		PLOT DATE: 8-APR-1999	
IPARM FILE NAME: dd191tr1.j		SURVEY DATE: _____	
SURVEYED BY: _____		DRAWN BY: SQUAD_C	
SQUAD LEADER: S. MENARD		SHEET: 37 OF 67	
REVISED 3-12-97			

NEW TRAFFIC SIGNS



DURABLE 100 mm WHITE LINE  
TEMPORARY 100 mm WHITE LINE

- BRATTLEBORO ST. HWY.
- 2+047.9 LT ~ 2+092.6 LT EDGE LINE--SOLID
  - 2+047.9 LT ~ 2+092.6 LT LANE LINE--DASHED
  - 2+095.0 LT ~ 2+113.8 LT LANE LINE--DASHED
  - 2+047.9 RT ~ 2+092.6 RT EDGE LINE--SOLID
  - 2+047.9 RT ~ 2+092.6 RT LANE LINE--DASHED
  - 2+095.5 RT ~ 2+113.8 RT LANE LINE--SOLID
  - 2+112.7 LT ~ RT--SOLID (SPLITTER ISLAND--FACE)
  - 2+117.75 LT ~ RT LANE LINE--SOLID (CIRCULAR ROADWAY)



VT. RTE. 9 EAST

- 2+162.1 LT ~ RT LANE LINE--SOLID (CIRCULAR ROADWAY)
- 2+182.4 RT ~ 2+225.0 RT EDGE LINE--SOLID (9.2 M RT ~8.4 M RT)
- 2+165.5 RT ~ 2+180.0 RT LANE LINE--DASHED (12.9 M RT~8.4 M RT)
- 2+165.1 RT ~ 2+180.0 RT LANE LINE--DASHED (8.7 M RT~5.1 M RT)
- 2+167.3 LT ~ RT--SOLID (SPLITTER ISLAND--FACE)
- 2+182.0 RT ~ 2+216.0 RT LANE LINE--DASHED
- 2+165.1 LT ~ 2+180.0 LT LANE LINE--SOLID (8.3 M LT~5.1 M LT)
- 2+182.4 LT ~ 2+225.0 LT EDGE LINE--SOLID (8.4 M LT)
- 2+182.0 RT ~ 2+216.0 RT LANE LINE--DASHED

U. S. RTE. 5 SOUTH

- 1+046.0 RT ~ 1+090.0 RT LANE LINE--DASHED (5.1 M RT)
- 1+046.0 RT ~ 1+070.0 RT EDGE LINE--SOLID (8.4 M RT)
- 1+070.0 RT ~ 1+090.0 RT DOTTED LINE EXT. (8.4 M RT)
- 1+092.4 RT ~ 1+104.0 RT LANE LINE--SOLID (8.4 M RT~ 15 M RT)
- 1+092.4 RT ~ 1+106.7 RT LANE LINE--SOLID (8.4 M RT~ 15 M RT)
- 1+046.0 LT ~ 1+090.0 LT EDGE LINE--SOLID (8.4 M LT)
- 1+046.0 LT ~ 1+090.0 LT LANE LINE--DASHED (5.1 M LT)
- 1+090.0 LT ~ 1+097.0 LT LANE LINE--DASHED (5.1 M LT)
- 1+102.7 LT ~ RT--SOLID (SPLITTER ISLAND--FACE)
- 1+107.7 LT ~ RT LANE LINE--SOLID (CIRCULATING ROADWAY)

U. S. RTE. 5 NORTH

- 1+152.2 LT ~ RT LANE LINE--SOLID (CIRCULAR ROADWAY)
- 1+155.1 RT ~ 1+175.0 RT LANE LINE--DASHED (8.3 M RT~5.1 M RT)
- 1+157.3 LT ~ RT--SOLID (SPLITTER ISLAND--FACE)
- 1+177.4 RT ~ 1+205.8 RT LANE LINE--DASHED (5.1 M RT)
- 1+177.4 RT ~ 1+215.0 RT EDGE LINE--SOLID (8.4 M RT)
- 1+155.1 LT ~ 1+175.0 LT LANE LINE--SOLID (8.3 M LT~5.1 M LT)
- 1+177.4 LT ~ 1+205.8 LT LANE LINE--DASHED (5.1 M LT)
- 1+177.4 LT ~ 1+215.0 LT LANE LINE--SOLID (8.4 M LT)

DURABLE 100 mm YELLOW LINE  
TEMPORARY 100 mm YELLOW LINE  
(SPLITTER ISLANDS)

- BRATTLEBORO ST. HWY.
- 1+980.0 RT ~ 2+092.6 RT
  - 2+095.0 RT ~ 2+112.3 RT
  - 1+980.0 LT ~ 2+092.6 LT
  - 2+095.0 LT ~ 2+111.1 LT

- VT. RTE. 9 EAST
- 2+168.9 RT ~ 2+180.0 RT
  - 2+182.4 RT ~ 2+222.4 RT
  - 2+167.7 LT ~ 2+180.0 LT
  - 2+182.4 LT ~ 2+222.4 LT

- U. S. RTE. 5 SOUTH
- 0+982.8 RT ~ 1+028.0 RT
  - 1+046.3 RT ~ 1+090.0 RT
  - 1+092.4 RT ~ 1+102.3 RT
  - 0+982.8 LT ~ 1+028.0 LT
  - 1+045.8 LT ~ 1+090.0 LT
  - 1+092.4 LT ~ 1+101.1 LT

- U. S. RTE. 5 NORTH
- 1+158.9 RT ~ 1+175.0 RT
  - 1+177.4 RT ~ 1+215.3 RT
  - 1+157.7 LT ~ 1+175.0 LT
  - 1+177.4 LT ~ 1+215.3 LT

DURABLE 200 mm YELLOW LINE  
TEMPORARY 200 mm YELLOW LINE  
(PAINTED ISLAND)

- U. S. RTE. 5 SOUTH
- 1+047.3 RT ~ 1+085.5 RT--DIAGONAL LINES--SOLID

DURABLE 300 mm WHITE LINE  
TEMPORARY 300 mm WHITE LINE

- BRATTLEBORO ST. HWY.
- 2+114.0 RT ~ 2+119.0 RT--HOLDING LINE--DOTTED
- VT. RTE. 9 EAST
- 2+160.9 LT ~ 2+165.9 LT--HOLDING LINE--DOTTED
- U. S. RTE. 5 SOUTH
- 1+103.8 RT ~ 1+111.3 RT--HOLDING LINE--DOTTED
- U. S. RTE. 5 NORTH
- 1+151.3 LT ~ 1+156.1 LT--HOLDING LINE--DOTTED

DURABLE CROSSWALK W/DIAGONAL LINES  
TEMPORARY CROSSWALK W/DIAGONAL LINES

- U. S. RTE. 5 SOUTH 1+091.1 LT~RT
- U. S. RTE. 5 NORTH 1+176.2 LT~RT
- BRAT. ST. HWY. 2+093.8 LT~RT
- VT. RTE. 9 2+181.2 LT~RT

DURABLE LETTER OR SYMBOL

- U. S. 5 SOUTH
- 0+857.0 RT ~ 0+859.4 RT (YIELD)
  - 0+860.6 RT ~ 0+863.0 RT (AHEAD)
  - 1+094.6 RT ~ 1+096.9 RT (P)
  - 1+095.1 RT ~ 1+098.0 RT (f)
  - 1+095.6 RT ~ 1+098.6 RT (f)
  - 1+098.2 RT ~ 1+100.1 RT (YIELD)
  - 1+099.2 RT ~ 1+101.1 RT (YIELD)
  - 1+100.0 RT ~ 1+101.9 RT (YIELD)

- U. S. 5 NORTH
- 1+157.9 LT ~ 1+159.8 LT (YIELD)
  - 1+158.8 LT ~ 1+160.7 LT (YIELD)
  - 1+161.3 LT ~ 1+163.8 LT (f)
  - 1+161.8 LT ~ 1+164.3 LT (P)
  - 1+394.0 LT ~ 1+396.4 LT (AHEAD)
  - 1+397.6 LT ~ 1+400.0 LT (YIELD)

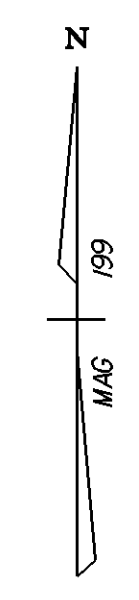
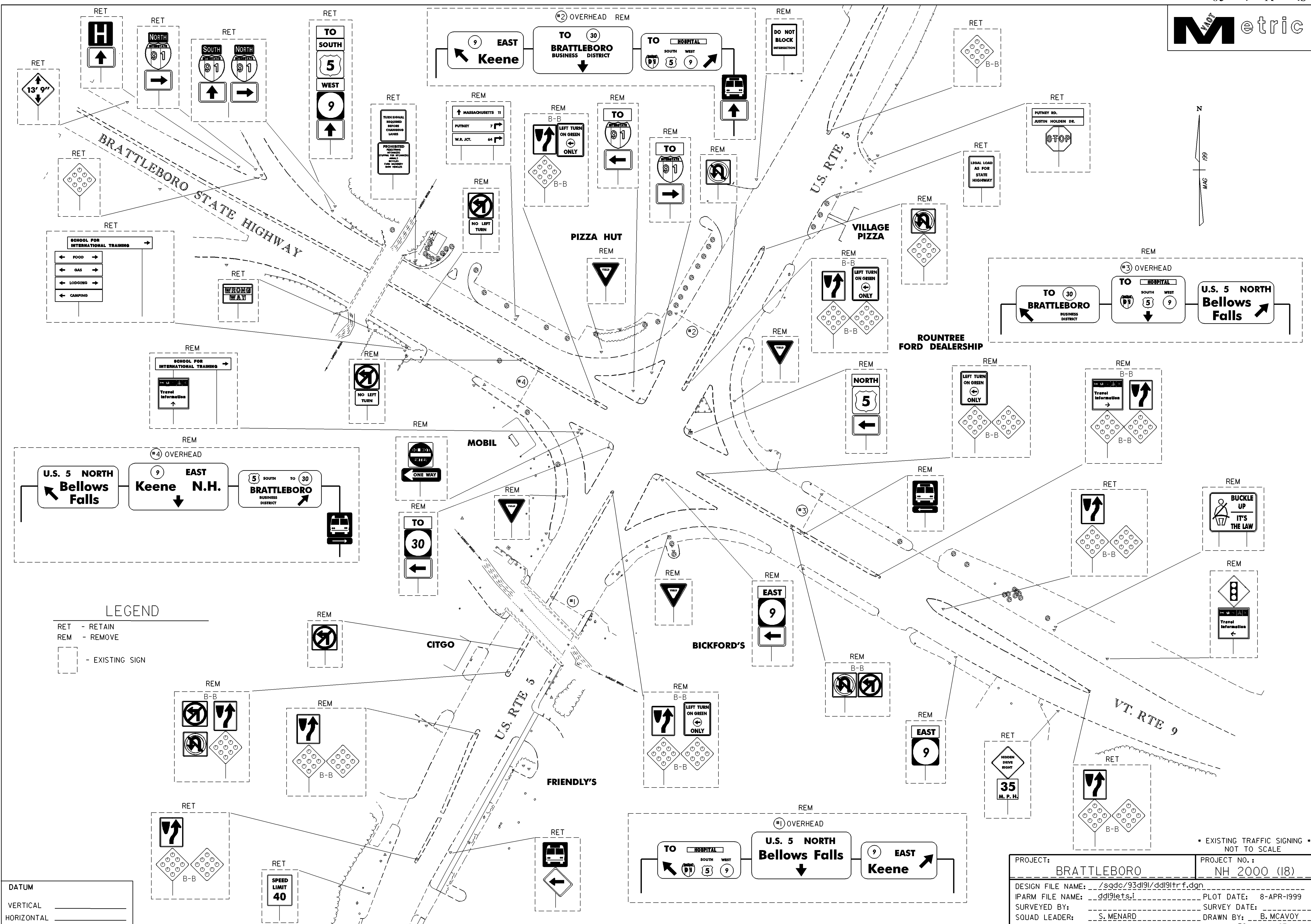
- BRATTLEBORO ST. HWY.
- 2+023.4 RT ~ 2+025.3 RT (3.4 M +/- RT) (YIELD)
  - 2+023.4 RT ~ 2+025.3 RT (7.9 M +/- RT) (YIELD)
  - 2+025.7 RT ~ 2+027.6 RT (3.4 M +/- RT) (AHEAD)
  - 2+025.7 RT ~ 2+027.6 RT (7.9 M +/- RT) (AHEAD)
  - 2+107.0 RT ~ 2+110.0 RT (f)
  - 2+106.3 RT ~ 2+109.2 RT (P)
  - 2+109.8 RT ~ 2+111.7 RT (YIELD)
  - 2+110.9 RT ~ 2+113.4 RT (YIELD)

- VT. RTE. 9 EAST
- 2+167.5 LT ~ 2+170.0 LT (YIELD)
  - 2+168.2 LT ~ 2+170.9 LT (YIELD)
  - 2+171.1 LT ~ 2+174.0 LT (f)
  - 2+171.8 LT ~ 2+174.5 LT (P)
  - 2+407.0 LT ~ 2+409.4 LT (AHEAD)
  - 2+410.6 LT ~ 2+413.0 LT (YIELD)



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH_20000_(18)
DESIGN FILE NAME:	zsqdc\93d\9\dd\9\trf.dwg	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	gd\9\trf.dwg	SURVEY DATE:	_____
SURVEYED BY:	_____	DRAWN BY:	SQUAD_C
SQUAD LEADER:	S. MENARD	SHEET:	38 OF 67
REVISED:	3-12-97		



LEGEND

- RET - RETAIN
- REM - REMOVE
- EXISTING SIGN

DATUM \_\_\_\_\_  
 VERTICAL \_\_\_\_\_  
 HORIZONTAL \_\_\_\_\_

• EXISTING TRAFFIC SIGNING •  
NOT TO SCALE

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000 (18)
DESIGN FILE NAME:	/sdc/93d9l/dl9lfr.f.dgn		
IPARM FILE NAME:	ddl9lts.l	PLOT DATE:	8-APR-1999
SURVEYED BY:	S. MENARD	SURVEY DATE:	
SQUAD LEADER:		DRAWN BY:	B. MCAVOY
REVISED 3-12-97		SHEET:	39 OF 67



STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET



KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST NO. OF POSTS	NEW SIGN POSTS																	REMARKS	SIGN DETAIL		
		EA	WIDTH (mm)	HEIGHT (mm)	"A"	"B"	SALV SIGN		SALV TIS	FLANGED CHANNEL			SQUARE STEEL (mm)			TUBULAR ALUMINUM Ø (mm)			TUBULAR STEEL Ø (mm)				W-SHAPE STEEL				DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
										1.7	3.0	4.5	44	50	63	75	100	100 MOD	75	89	100	125	FTG. SIZE 600 mm	750 mm	WEIGHT				POST SIZE
OPTION ITEMS																													
1+074.0 LT		1	600	300	0.18				1	4.87 X		X												M3-3	E-136AM				
		1	600	600	0.36																			M1-4	E-136AM				
		1	600	300	0.18																			M4-5	E-136BM				
		1	600	600	0.36																				E-136BM				
1+090.0 RT		1	600	750	0.45				1	4.27 X		X												VR-004A	E-146M				
1+095.0 LT		1	600	750	0.45				1	4.27 X		X												VR-004A	E-146M				
1+102.0 CL		1			0.35				1	4.27 X		X												R1-2	E-146M				
1+102.0 CL		1	450	450	0.20				1	3.66 X		X												OM-1	E-150M				
1+103.0 RT		1			0.35				1	4.27 X		X												R1-2	E-146M				
1+116.0 RT		1	900	300	0.27				2	7.31 X		X												R6-1R	E-142M				
1+144.0 LT		1	900	300	0.27				2	7.31 X		X												R6-1R	E-142M				
1+156.0 LT		1			0.35				1	4.27 X		X												R1-2	E-146M				
1+159.0 CL		1	450	450	0.20				1	4.27 X		X												OM-1	E-150M				
1+172.0 RT		1	600	750	0.45				1	4.27 X		X												VR-004A	E-146M				
1+180.0 RT		1	600	300	0.18				1	4.27 X		X												M3-1	E-136AM				
		1	600	600	0.36																			M1-4	E-136AM				
1+180.0 LT		1	600	750	0.45				1	4.27 X		X												VR-004A	E-146M				
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."										m	m	m	m	m	m	EA	kg	kg	kg	kg	kg	kg	kg						
										m			m			EA	kg			EA.	EA.	kg							
		<b>TOTALS</b>	5.41			EA.	m <sup>2</sup>			62.5			62.5				kg		EA.		kg		EA.	EA.	kg				
		PROJECT: BRATTLEBORO										PROJECT NO.: NH 2000(18)																	
		DESIGN FILE NAME: /sqdc/93dl9l/ddl9lfrm.dgn										PLOT DATE: 8-APR-1999																	
		IPARM FILE NAME: ddl9lts2.l										SURVEY DATE:																	
		SURVEYED BY:										DRAWN BY: SQUAD C																	
		SQUAD LEADER: MENARD										SHEET: 41 OF 67																	
		REVISED 1-7-99																											





STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET



KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL				
		EA	WIDTH (mm)	HEIGHT (mm)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (mm)			TUBULAR ALUMINUM Ø (mm)			TUBULAR STEEL Ø (mm)				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											1.7	3.0	4.5	44	50	63	75	100	100 MOD	FOUND-ATION	75	89	100	125	600				750	WEIGHT	POST SIZE
OPTION ITEMS																															
2+275.0 LT		1	900	900	0.81				2	8.53	X																	SEE DETAIL SH. #47			
2+290.0 LT		1	1350	190	0.26				2	X																			E-123M		
		1	1350	190	0.26					8.53																			E-123M		
		1	600	600	0.36																								SEE DETAIL SH. #47		
		1	600	150	0.09																								SEE DETAIL SH. #47		
2+350.0 LT		1	525	375	0.20				1	4.26	X																		M2-1	E-136AM	
		1	600	600	0.36																								M1-4	E-136AM	
2+410.0 LT		1	900	900	0.81				2	10.97	X																		SEE DETAIL SH. #47		
		1	900	900	0.81																									W3-2A	E-150M
	ROUNDAABOUT				0.18																										
0+890 RTE 5									1	4.267																					
1+008 RTE 5									1	4.267																					
1+110 RTE 5																															
1+478 RTE 5																															
1+600 RTE 5																															
2+380 LT RTE 9																															
2+502 LT RTE 9																															

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."

<b>TOTALS</b>	EA	m <sup>2</sup>	m <sup>2</sup>	EA	m <sup>2</sup>	EA	m	m	m	m	m	m	EA	kg	kg	kg	kg	kg	kg	kg	EA	EA	kg
	3.96						36.3																

PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: /sqdc/93d191/dd191frm.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191ts5.1	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD C
SQUAD LEADER: MENARD	SHEET: 44 OF 67
REVISED: 3-10-97	





STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXISTING POSTS	NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL					
		EA	WIDTH (mm)	HEIGHT (mm)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (mm)			TUBULAR ALUMINUM (mm)			TUBULAR STEEL (mm)					W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
											1.7	3.0	4.5	44	50	63	75	100	100 MOD	75	89	100	125		600	750	WEIGHT			POST SIZE
2+090.0 RT		1	600	750	0.45				1	4.267	X	-X-															VR-004A	E-146M		
2+100.0 LT		1	600	750	0.45				1	4.267	X	-X-															VR-004A	E-146M		
2+112.0 CL		1	450	450	0.20				1	3.657	X	-X-															QM-1	E-150M		
2+113.0 RT	 900x900x900	1			0.35				1	4.267	X	-X-															R1-2	E-146M		
2+126.0 RT		1	900	300	0.27				2	7.314	X	-X-															R6-1R	E-142M		
1+893 RT BSH	REDUCE SPEED AHEAD								1	4.267																				
91NB OFF RAMP RT BSH	REDUCE SPEED AHEAD								1	4.267																				
2+015 RT BSH	SPEED								1	4.267																				
91NB OFF RAMP RT BSH	SPEED								1	4.267																				
2+065 LT BSH	ONE WAY								2	7.314																				
2+075 RT BSH	ONE WAY								2	7.314																				
										8.534																				

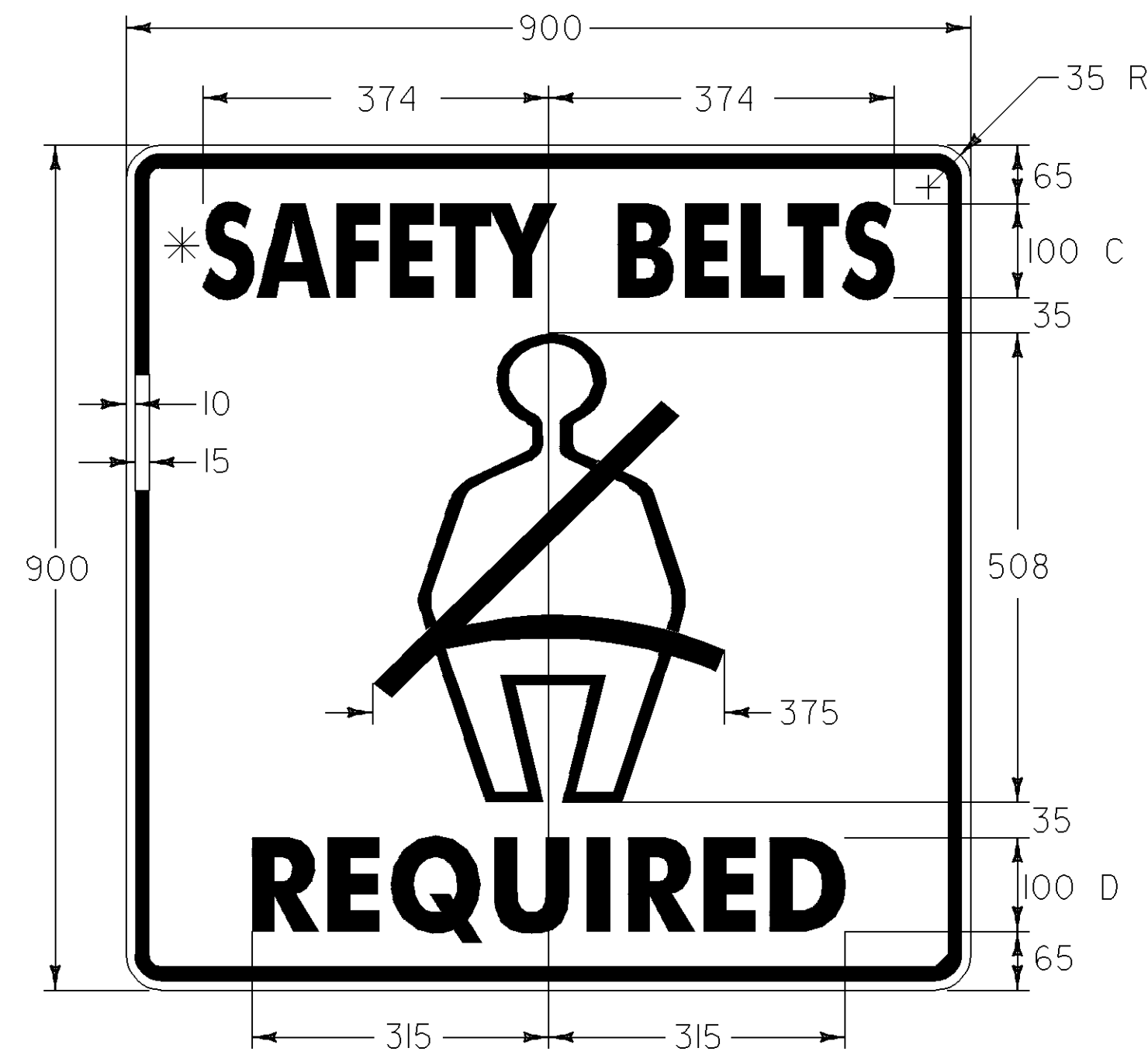
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

<b>TOTALS</b>	m <sup>2</sup>	m <sup>2</sup>	EA.	m <sup>2</sup>		m	m	m	EA	kg	kg	kg	kg	kg	kg	EA.	EA.	kg
	1.72					23.5			4									

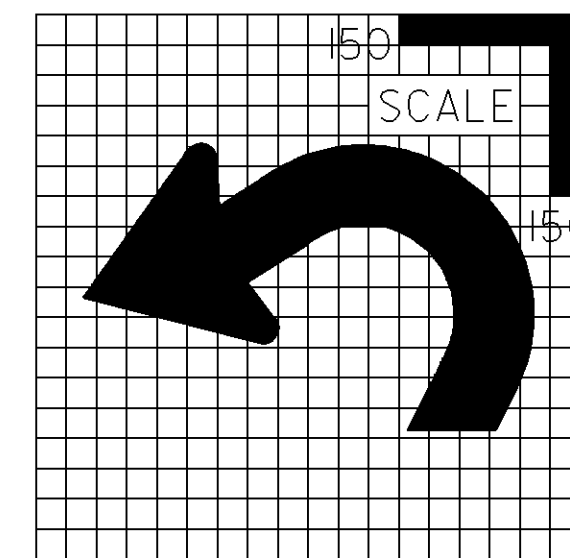
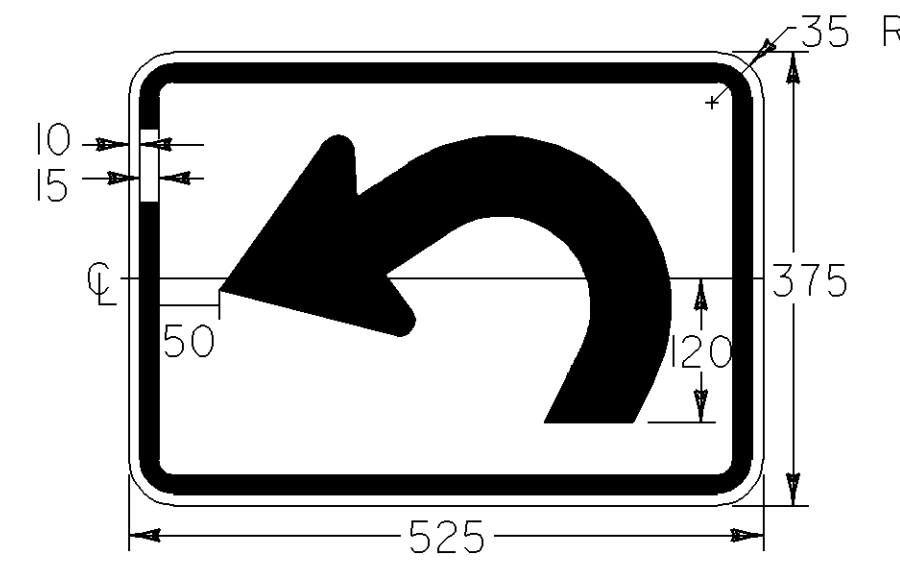
PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: /sqdc/93d191/dd191frm.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191ts7.t	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD C
SQUAD LEADER: MENARD	SHEET: 46 OF 67
REVISED 3-10-97	



# SIGN DETAIL SHEET

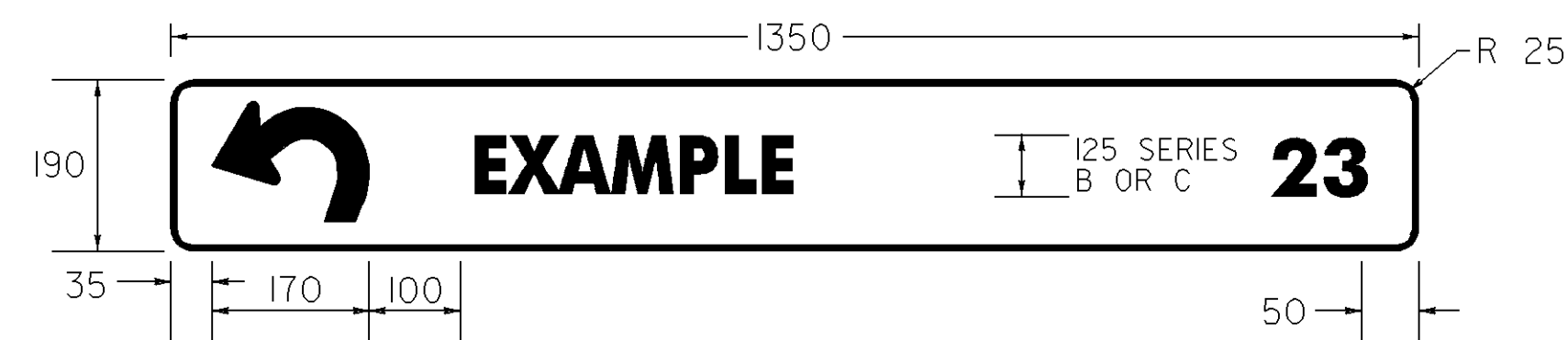
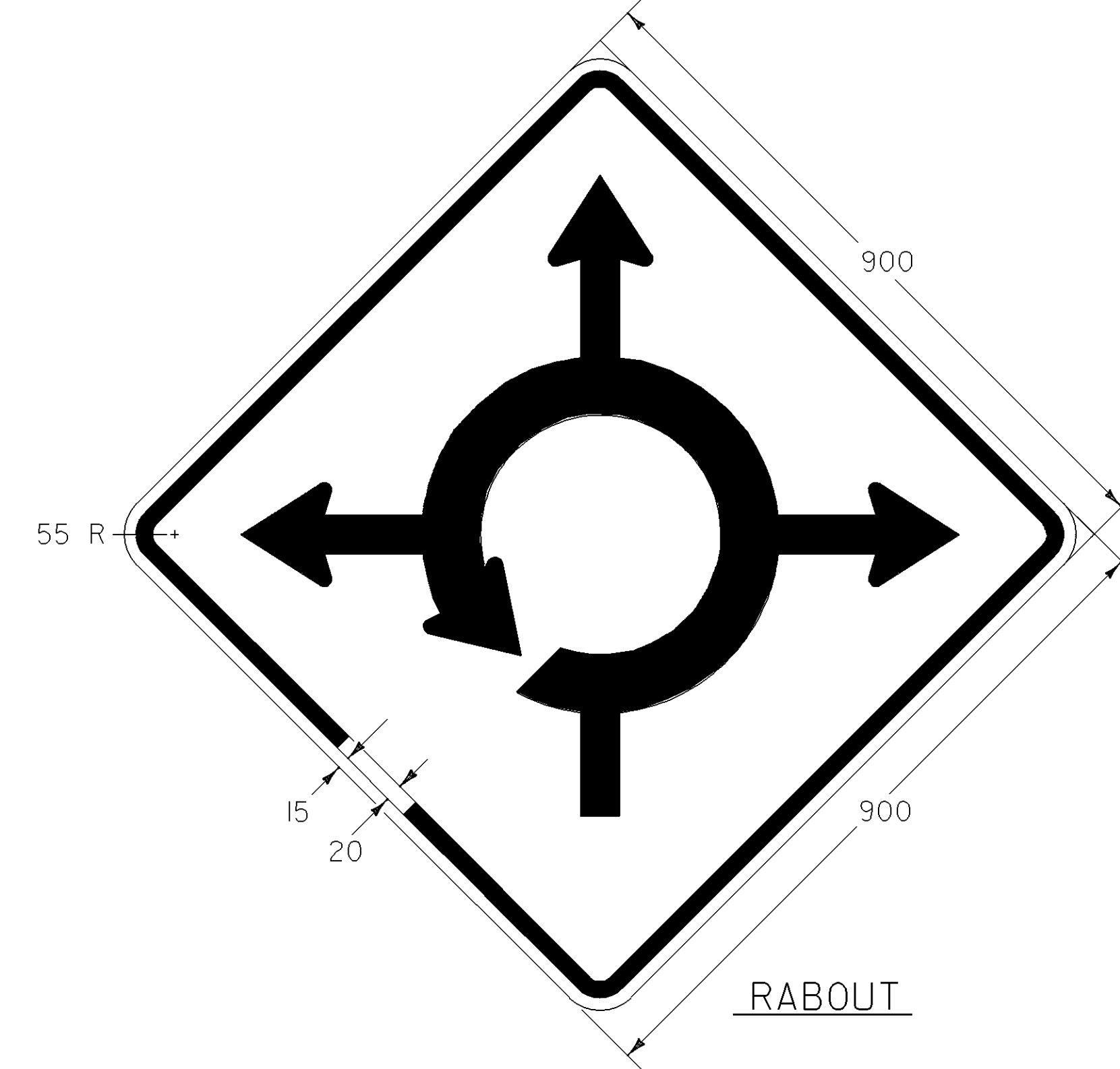


\*NOTE: REFER TO STD. E-140M FOR MATERIALS AND COLORS.

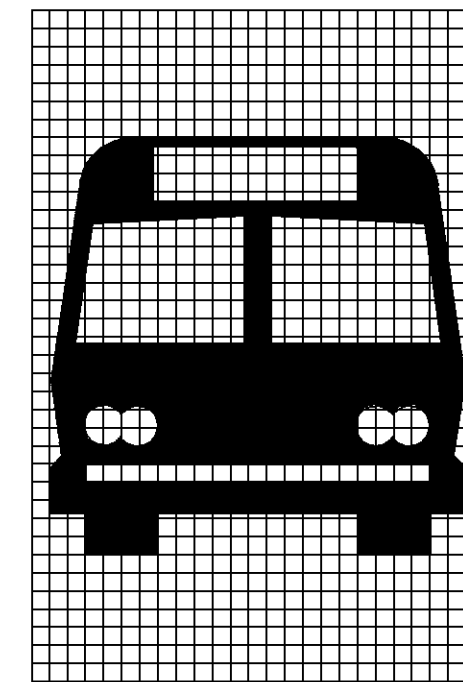
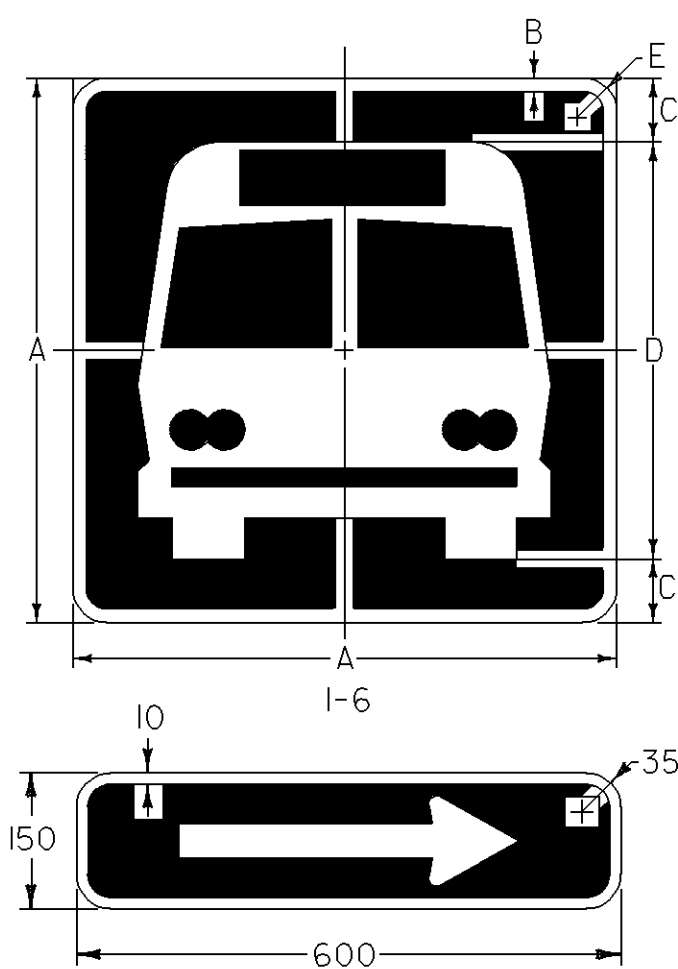


\*NOTE: FOR MATERIALS AND COLORS REFER TO -  
 STD. E-135M FOR STA. 1+043 RT  
 STD. E-136AM FOR STA. 2+086 RT & 2+240 LT  
 STD. E-136BM FOR STA. 1+220 LT

\*NOTE: REFER TO STD. E-150M FOR MATERIALS AND COLORS.

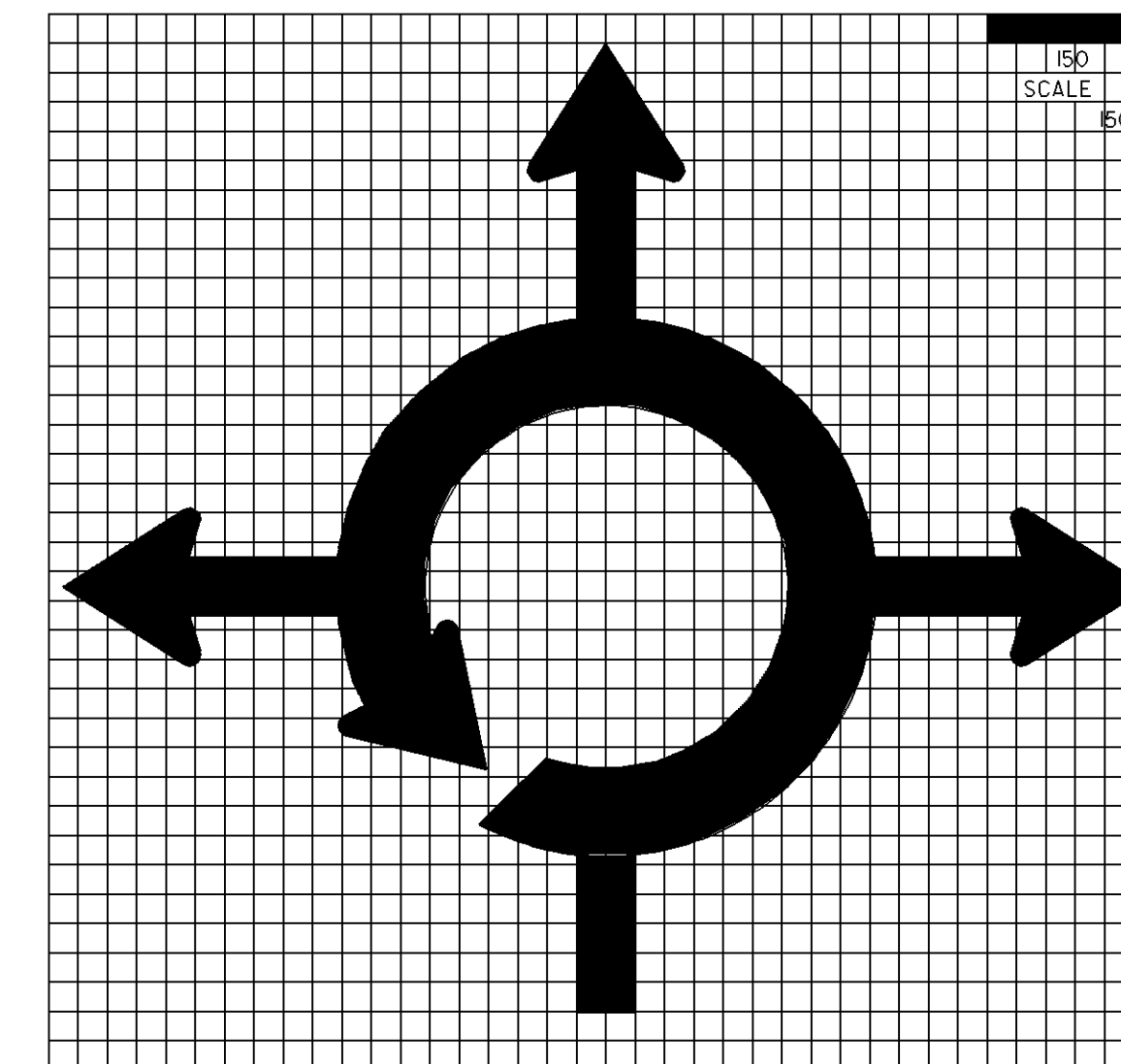


\*NOTE: REFER TO STD. E-123M FOR MATERIALS AND COLORS.



SIGN	DIMENSIONS (mm)				
	A	B	C	D	E
MIN	450	10	35	375	35
STD	600	10	50	508	35
SPEC	750	20	65	635	45

\*NOTE: REFER TO STD. E-131M FOR MATERIALS & COLORS.



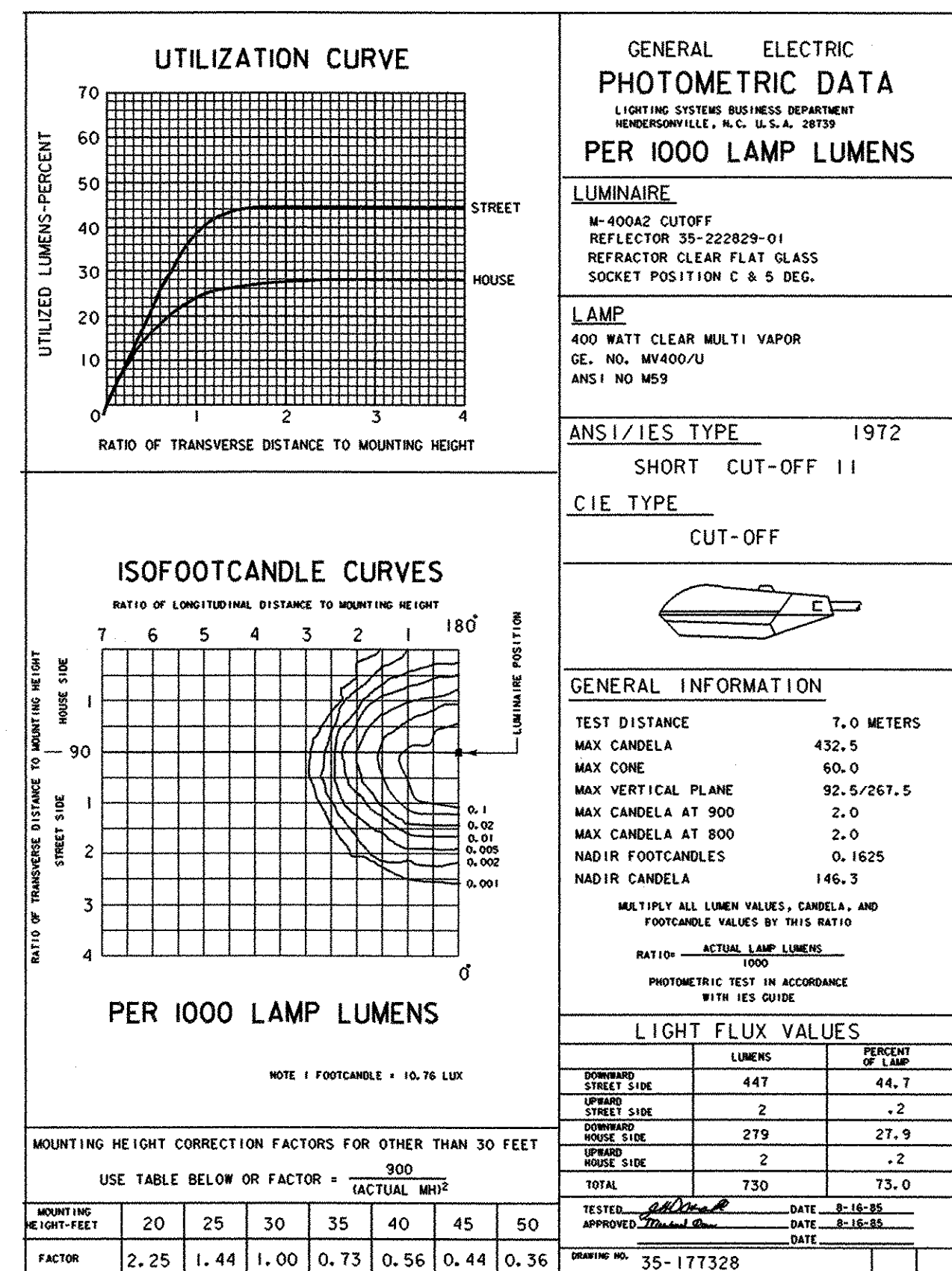
NOT TO SCALE

PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: /sdc/93d/91/dd/91trf.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd/91sd.l	SURVEYED BY: SQUAD_C
SQUAD LEADER: MENARD	DRAWN BY: SQUAD_C
	SHEET: 47 OF 67

\*NOTE: ALL DIMENSIONS ARE IN (mm)

DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

# GENERAL STREET LIGHT NOTES



## CONCRETE BASES

THE OFFSET FOR CONCRETE BASES (EDGE OF SHOULDER TO CENTER OF CONCRETE BASE) TO BE A MINIMUM OF 1.8 m OR AS OTHERWISE NOTED ON THE PLANS.

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE DEPTH.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

## POLES, ANCHOR BASES AND ARMS

ALUMINUM STREET LIGHT POLE SHAFT WALL THICKNESS SHALL BE AS NOTED IN THE SPEC. BOOK OR ON STANDARD SHEETS OR WILL BE GOVERNED BY MOUNTING HEIGHTS, ARM LENGTH, NUMBER OF ARMS AND LUMINAIRE WEIGHT AND EPA, = EFFECTIVE PROJECTED AREA.  
ALL NEW STREET LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01 (B).

ALL STREET LIGHT POLES SHALL HAVE A FRANGIBLE OR BREAKAWAY DEVICE (TRANSFORMER BASE, UNLESS OTHERWISE NOTED ON THE PLANS) BETWEEN THE POLE BASE AND CONCRETE BASE.

WHEN A TRANSFORMER BASE IS TO BE INSTALLED AS THE BREAKAWAY FEATURE IT SHALL HAVE EITHER A 3.2 mm THICK PREFORMED FABRIC BEARING PAD OR A COATING OF ALUMINUM IMPREGNATED CAULKING COMPOUND PLACED BETWEEN THE TOP OF THE CONCRETE POLE BASE AND THE BOTTOM OF THE ALUMINUM TRANSFORMER BASE.

## LUMINAIRES

INSTALL METAL HALIDE LUMINAIRES AT ALL LOCATIONS. LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWINGS #35-177328, SHORT CUT-OFF, TYPE II DISTRIBUTION, DATED 3-26-85, AND #35-177299, SHORT CUT-OFF, TYPE II DISTRIBUTION, DATED 3-26-85.

THE ABOVE PHOTOMETRIC DATA DRAWINGS WERE USED FOR DESIGN PURPOSES ON THIS PROJECT. OTHER MANUFACTURER'S PRODUCTS MAY BE SUBSTITUTED IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM LUX ON THE ROADWAY, SHOULDER AND SIDEWALK ARE AT LEAST AS GREAT AS THAT INDICATED BY THE TWO PHOTOMETRICS.

## CONDUIT

A 50 mm (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE AT LEAST (SCHEDULE 40 P.V.C.) OR RIGID GALVANIZED STEEL ELECTRICAL CONDUIT (AND CONFORM TO THE REQUIREMENTS OF UL-6), TYPE OF CONDUIT (P.V.C. OR STEEL) SHALL BE NOTED ON THE PLANS.

## CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER THE ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC OR STEEL PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN .61 m OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 1.2 m BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACK-FILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

WHEN JACKING A SLEEVE UNDER A ROADWAY IT SHALL BE STEEL WITH A MINIMUM DIAMETER OF 200 mm AND MINIMUM WALL THICKNESS OF 10 mm. ACTUAL LENGTH TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

## WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.

## GROUNDING

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

## PULLBOXES

FOR DETAILS SEE STANDARD SHEET E-173M.

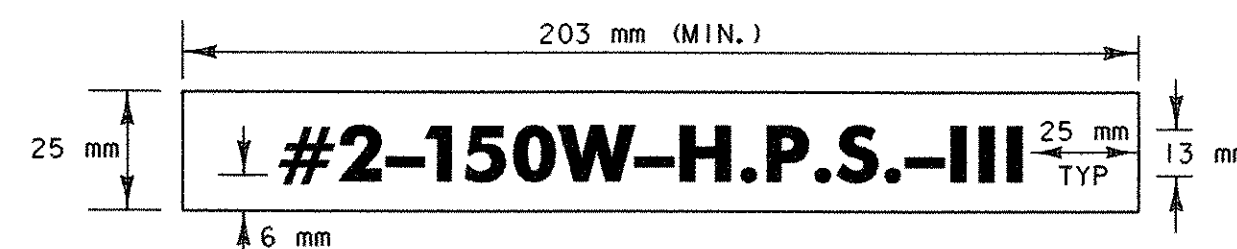
## GENERAL

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT AND SOME PULLBOXES SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.

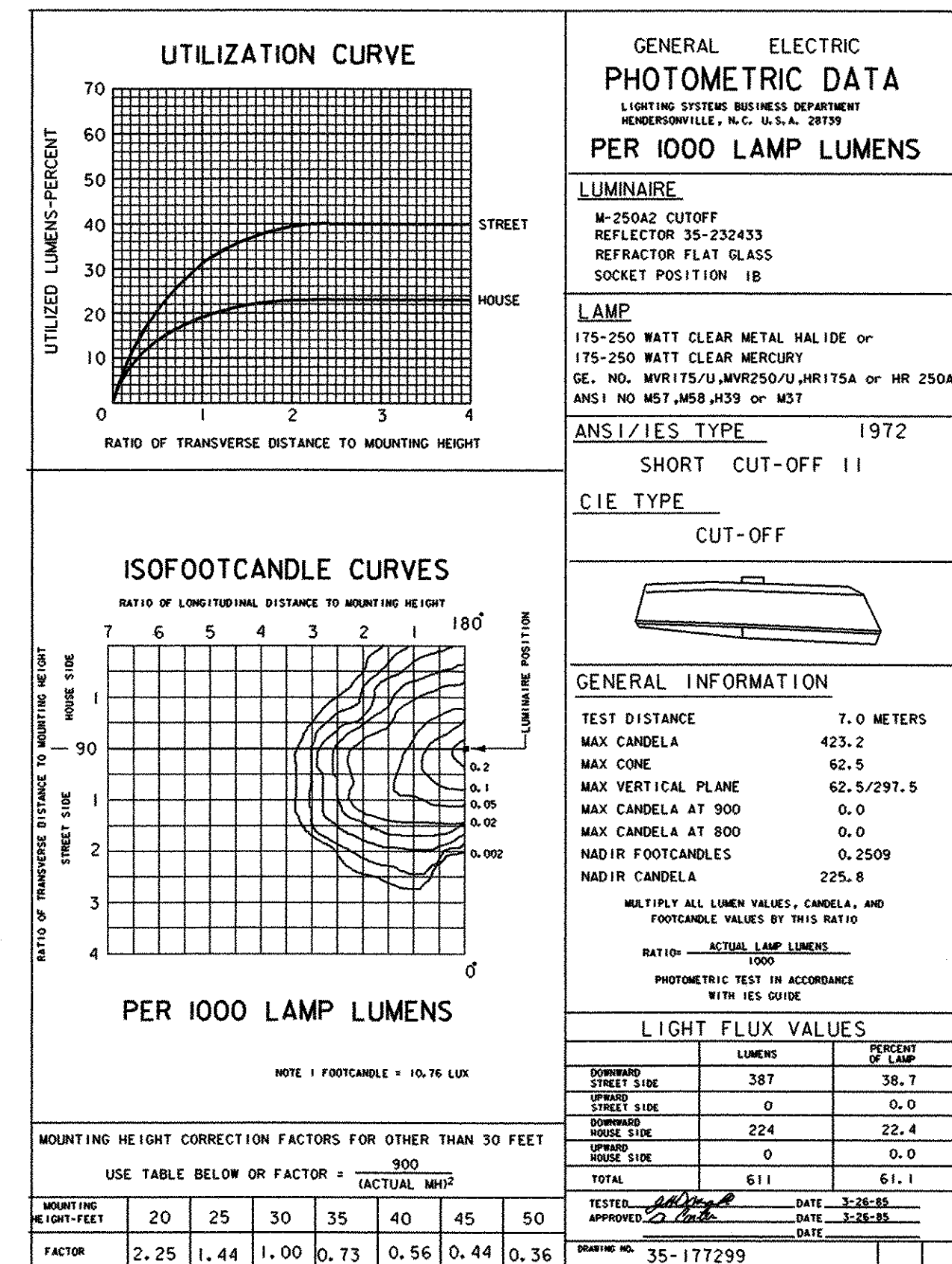
## DETAILS FOR TAGS ATTACHED TO STREET LIGHT POLES



LEGEND: BLACK OR WHITE (NON-REFL.)-STAMPED PRIOR TO PRINTING/PAINTING.  
BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

### NOTES:

1. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS NOT TO BE EASILY REMOVED, SUCH AS WELDED, RIVETED, OR BOLTED WITH VANDAL PROOF BOLTS.
2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 2.54 mm.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 150mm MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE, ATTACH TAG TO COVER.



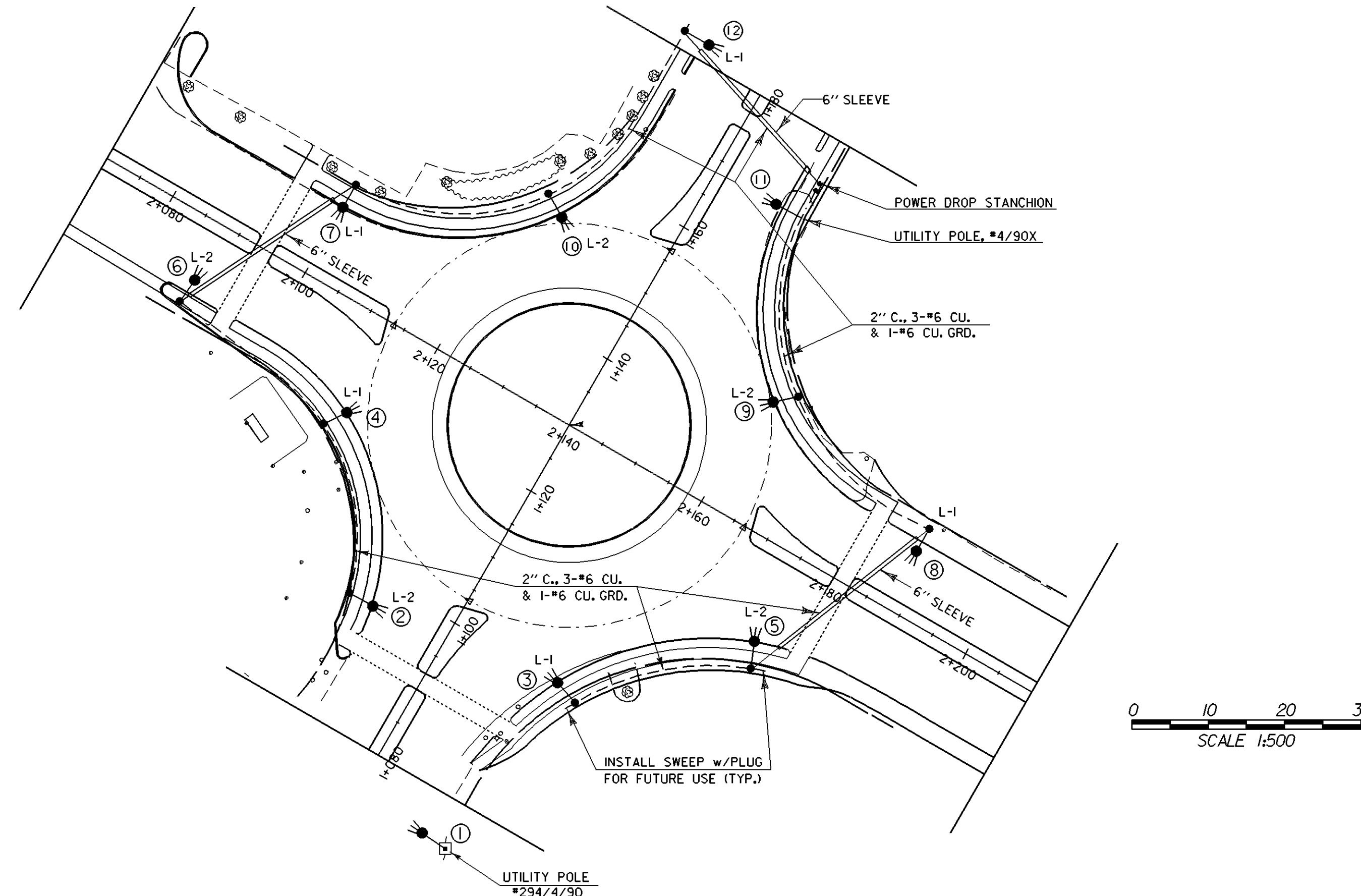
DATUM  
VERTICAL \_\_\_\_\_  
HORIZONTAL \_\_\_\_\_

PROJECT: <b>BRATTLEBORO</b>	PROJECT NO. : <b>NH 2000(18)</b>
DESIGN FILE NAME: <i>zsdg293d9i/dd9itr2.dgn</i>	PLOT DATE: 8-APR-1999
IPARM FILE NAME: <i>dd9isllj</i>	SURVEY DATE:
SQUAD LEADER: <b>MENARD</b>	DRAWN BY: <b>SQUAD_C</b>
SHEET: 48 OF 67	



**THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK AT THIS LOCATION:**

1. PERFORM AN INSULATION TEST ON ALL CONDUCTORS EXCEPT THE GROUND CONDUCTOR (INCLUDING NEUTRAL--DISCONNECT FROM GROUND BEFORE TESTING). PERFORM A RESISTANCE TO GROUND TEST AT SPECIFIED GROUNDS, SEE VERMONT STANDARD SPECIFICATIONS 679.08. FURNISH THE TRAFFIC AND SAFETY SECTION VIA THE RESIDENT ENGINEER, THE READINGS OBTAINED FROM THE ABOVE TESTS.
2. AT EACH STREETLIGHT POLE LOCATION, INSTALL A CONCRETE POLE BASE, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS (FLAT AND LOCK) ALUMINUM POLE, LUMINAIRE ARM, LUMINAIRE, BREAKAWAY FEATURE (IF REQUIRED), WIRING, WATERPROOF DISCONNECT KITS AND CONDUIT SWEEPS.
3. INSTALL CONDUIT, SIZE, TYPE AND LOCATION AS NOTED ON THE PLANS.
4. INSTALL PULLBOXES WITH CONDUIT SWEEPS AS PER PLAN.
5. INSTALL ALL WIRING, SIZE AND TYPE AS PER PLAN AND/OR SPECIFICATIONS.
6. INSTALL RIGID PLASTIC (FOR NEW CONSTRUCTION) OR STEEL PIPE SLEEVES BY JACKING OR AUGERING AS PER PLAN.
7. INSTALL SWEEPS WITH PLUGS IN CONCRETE POLE BASES AND/OR PULLBOXES FOR FUTURE USE AS PER PLAN.
8. INSTALL METAL TAGS ON THE LIGHT POLES WITH THE INFORMATION AS NOTED AND DETAILED ON THE PLANS.
9. INSTALL PADLOCKS (MASTER PADLOCK #3220) ON ALL RAIN TIGHT CABINETS
10. INSTALL A RAIN TIGHT CABINET WITH METER SOCKET, MAIN DISCONNECT AND INDIVIDUAL CIRCUIT BREAKERS. THE CABINET TO BE INSTALLED ON A STANCHION AS PER PLAN. INSTALL POLE RISER CONDUIT, WEATHERHEAD OR CONDULATOR AND ALL NECESSARY WIRING AND HARDWARE.
11. ALL THE ABOVE WORK WHICH IS NOT PAID FOR UNDER A SEPARATE ITEM NUMBER, SHALL BE PAID SUBSIDIARY TO OTHER STREET LIGHTING ITEMS.



**WIRED CONDUIT (65mm PVC Sch. 40 & 80)**

- 1+168.7 RIGHT (POWER DROP) 8m, Sch 40
- 1+168.7 RIGHT (POWER DROP) 5m, Sch 80

**WIRED CONDUIT (50 mm PVC Sch. 40)**

- FROM POWER DROP STANCHION TO LIGHT POLE #2 - 160 m
- FROM POWER DROP STANCHION TO LIGHT POLE #3 - 115 m

**ELECTRICAL CONDUIT (50 mm PVC Sch. 40 SWEEPS)**

- AT LIGHT POLE BASES #2, #3, #5, #6, #7, #8 AND #12 (TO BE CAPPED FOR FUTURE EXPANSION OF SYSTEM)

**ELECTRICAL CONDUIT SLEEVES (150 mm)**

- 1+117.7 RIGHT TO 1+140.5 RIGHT - 24 m
- 1+119.5 LEFT TO 1+140.5 LEFT - 23 m
- 1+173.7 RIGHT TO 1+180.6 LEFT - 23 m

**STREET LIGHTING DESIGN PARAMETERS**

AVERAGE MAINTAINED HORIZONTAL ILLUMINATION		
	RECOMMENDED	ACTUAL
ROADWAY AND SIDEWALK	-- 17.2 Lux	14.0 Lux
MINIMUM LUX	-- 2.2 Lux	3.2 Lux
FILTERED LUMINAIRE ---0.95, CHARCOAL FILTERED		
LAMP LUMEN DEPRECIATION	--250w.=0.64 @ 6,000 HOURS	400w.=0.55 @ 15,000 HOURS
COMBINED LAMP FACTOR	-----250w.=0.61	400w.=0.52
UNIFORMITY RATIO	-----4.2: 1	

**WORK TO BE PERFORMED BY CENTRAL VERMONT PUBLIC SERVICE CORP.**

PROVIDE FOR A 120/240 VOLT, 100 AMPERE, SINGLE PHASE, 3 WIRE DISTRIBUTION SYSTEM AT LOCATION SHOWN ON THE PLANS.

MONTHLY CHARGES FOR METERED SYSTEM SHALL BE BILLED TO: FLOYD ROBERTS, DISTRICT TRANSPORTATION ADMINISTRATOR, P.O. BOX 8236, NORTH BRATTLEBORO, VT. 05304.

INSTALL NEW LUMINAIRES ON TWO EXISTING UTILITY POLES AT STATIONS 1+074.6 RIGHT AND 1+168.7. INSTALL 250 WATT METAL HALIDE CUTOFF LUMINAIRES (FLAT LENS) ON EXISTING UTILITY POLES AT APPROXIMATELY A 30 FT. MOUNTING HEIGHT.

STREET LIGHTING LOCATIONS										
POLE NO.	LOCATION	OFF-SET*	LENGTH OF POLE ARM	WALL THICKNESS	BREAK-AWAY	LUMINAIRE WATTS	LUMINAIRE TYPE	MOUNT HEIGHT	CONC. BASE	REMARKS
1	1+074.6 RT		EXISTING			250	II	EXISTING		C. V. P. S.
2	1+096.6 LT	13.9m	8.5m	2.4m	.48cm	NO	250	II	9.14m .6X1.8m	
3	1+098.9 RT	18.5	8.5	2.4	.48cm	NO	400	II	9.14 .6X1.8	
4	1+114.1 LT	28.0	8.5	2.4	.48cm	NO	400	II	9.14 .6X1.8	
5	1+114.6 RT	36.2	8.5	2.4	.48cm	NO	250	II	9.14 .6X1.8	
6	1+118.4 LT	52.3	8.5	2.4	.48cm	NO	250	II	9.14 .6X1.8	
7	1+143.1 LT	40.0	8.5	2.4	.48cm	NO	250	II	9.14 .6X1.8	
8	1+141.8 RT	47.2	8.5	2.4	.48cm	NO	250	II	9.14 .6X1.8	
9	1+148.2 RT	23.8	8.5	2.4	.48cm	NO	400	II	9.14 .6X1.8	
10	1+154.8 LT	17.3	8.5	2.4	.48cm	NO	400	II	9.14 .6X1.8	
11	1+168.7 RT		EXISTING			250	II	EXISTING		C. V. P. S.
12	1+182.3 LT	12.5	8.5	2.4	.48cm	NO	250	II	9.14 .6X1.8	

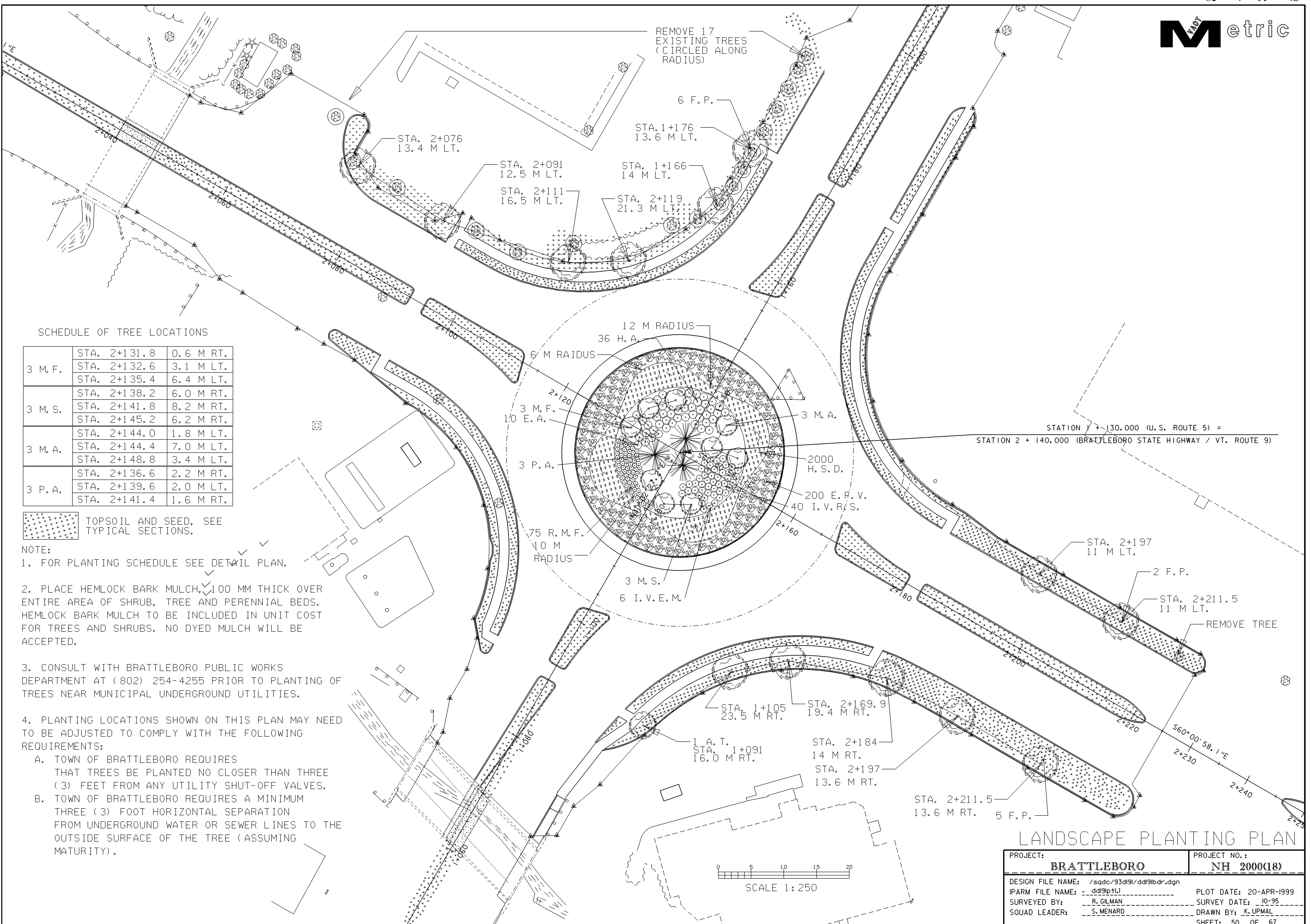
\*OFFSET FROM US-5 STATIONING

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		STREET LIGHT POLE
		CONDUIT
		SLEEVE
		POWER DROP STANCHION
L-1 = ONE LEG OF THREE WIRE CIRCUIT		
⑥ = LIGHT POLE NUMBER		

**STREET LIGHT DETAIL**

PROJECT: BRATTLEBORO	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: Zsdc\93d\9\dd\9\tr2.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd\9\sl2.dwg	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 49 OF 67

DATUM	
VERTICAL	
HORIZONTAL	



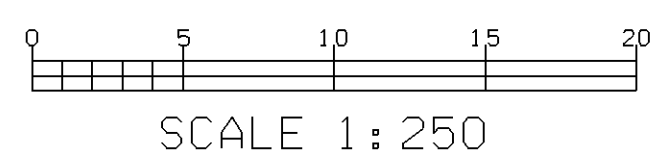
SCHEDULE OF TREE LOCATIONS

3 M. F.	STA. 2+131.8	0.6 M RT.
	STA. 2+132.6	3.1 M LT.
	STA. 2+135.4	6.4 M LT.
3 M. S.	STA. 2+138.2	6.0 M RT.
	STA. 2+141.8	8.2 M RT.
	STA. 2+145.2	6.2 M RT.
3 M. A.	STA. 2+144.0	1.8 M LT.
	STA. 2+144.4	7.0 M LT.
	STA. 2+148.8	3.4 M LT.
3 P. A.	STA. 2+136.6	2.2 M RT.
	STA. 2+139.6	2.0 M LT.
	STA. 2+141.4	1.6 M RT.

TOPSOIL AND SEED, SEE TYPICAL SECTIONS.

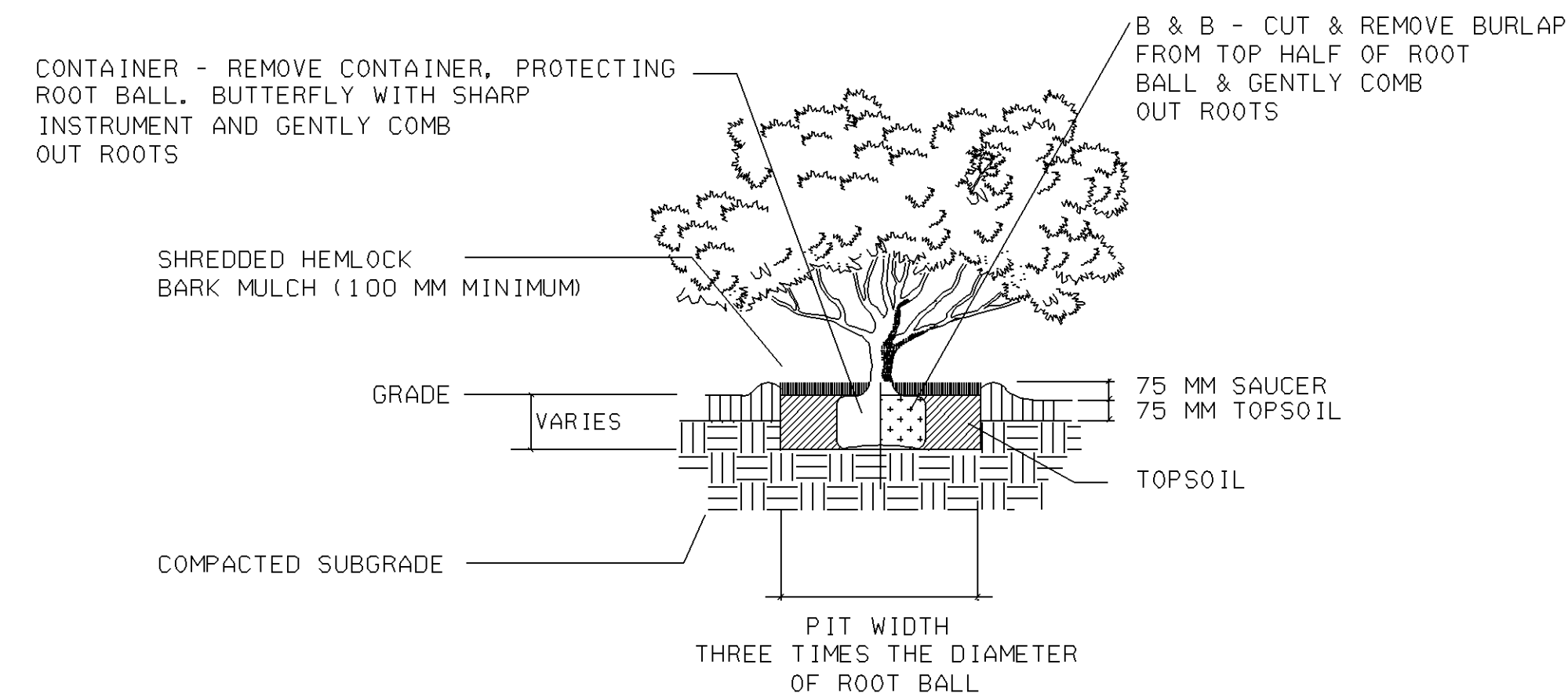
NOTE:

1. FOR PLANTING SCHEDULE SEE DETAIL PLAN.
2. PLACE HEMLOCK BARK MULCH, 100 MM THICK OVER ENTIRE AREA OF SHRUB, TREE AND PERENNIAL BEDS. HEMLOCK BARK MULCH TO BE INCLUDED IN UNIT COST FOR TREES AND SHRUBS. NO DYED MULCH WILL BE ACCEPTED.
3. CONSULT WITH BRATTLEBORO PUBLIC WORKS DEPARTMENT AT (802) 254-4255 PRIOR TO PLANTING OF TREES NEAR MUNICIPAL UNDERGROUND UTILITIES.
4. PLANTING LOCATIONS SHOWN ON THIS PLAN MAY NEED TO BE ADJUSTED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
  - A. TOWN OF BRATTLEBORO REQUIRES THAT TREES BE PLANTED NO CLOSER THAN THREE (3) FEET FROM ANY UTILITY SHUT-OFF VALVES.
  - B. TOWN OF BRATTLEBORO REQUIRES A MINIMUM THREE (3) FOOT HORIZONTAL SEPARATION FROM UNDERGROUND WATER OR SEWER LINES TO THE OUTSIDE SURFACE OF THE TREE (ASSUMING MATURITY).

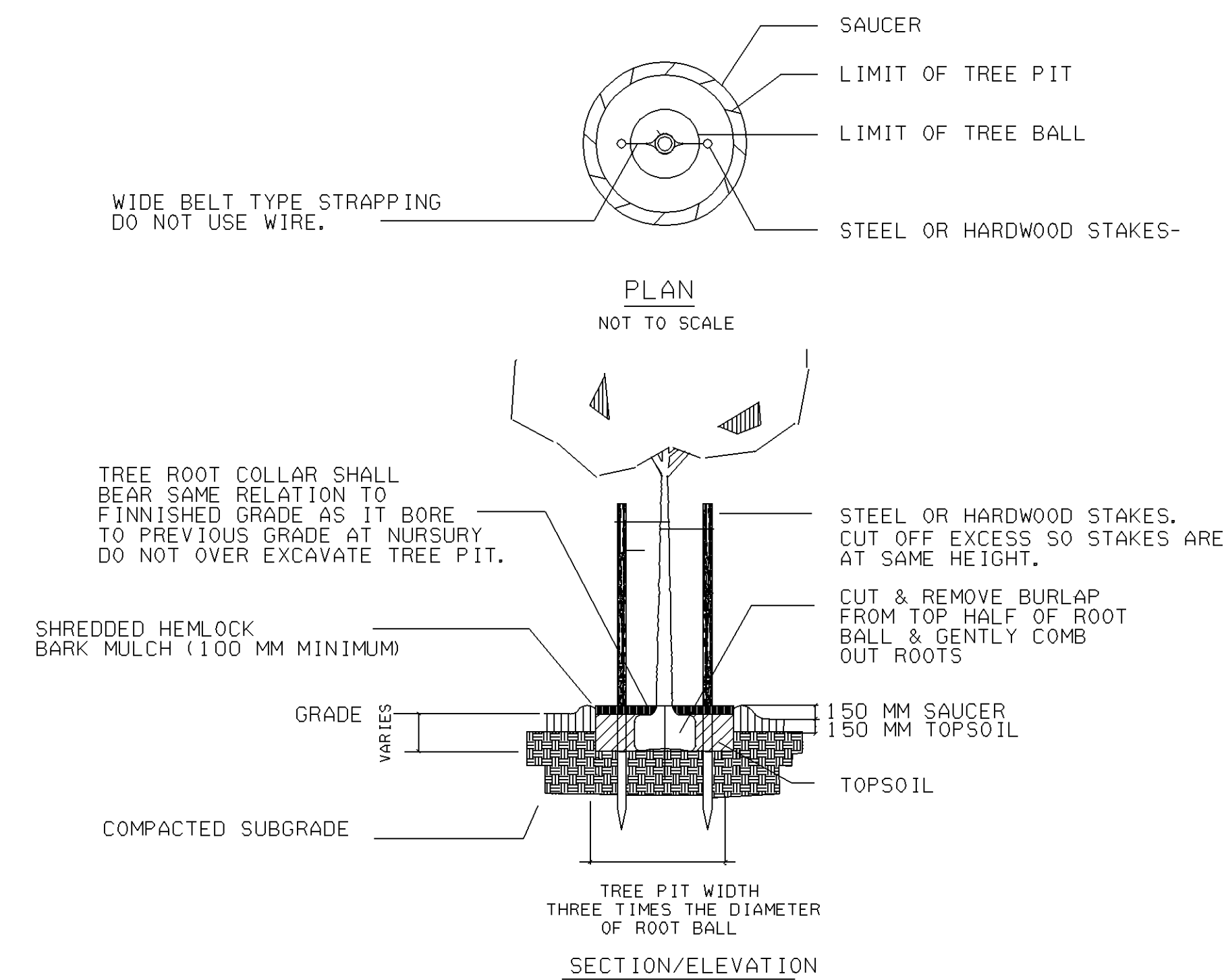


LANDSCAPE PLANTING PLAN

PROJECT:	<b>BRATTLEBORO</b>	PROJECT NO.:	<b>NH 2000(18)</b>
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IPARM FILE NAME:	dd191p1.l	SURVEY DATE:	10-95
SURVEYED BY:	R. GILMAN	DRAWN BY:	K. UPMAL
SQUAD LEADER:	S. MENARD	SHEET:	50 OF 67



TYPICAL SHRUB PLANTING  
NOT TO SCALE



TYPICAL TREE PLANTING  
NOT TO SCALE

PLANTING SCHEDULE

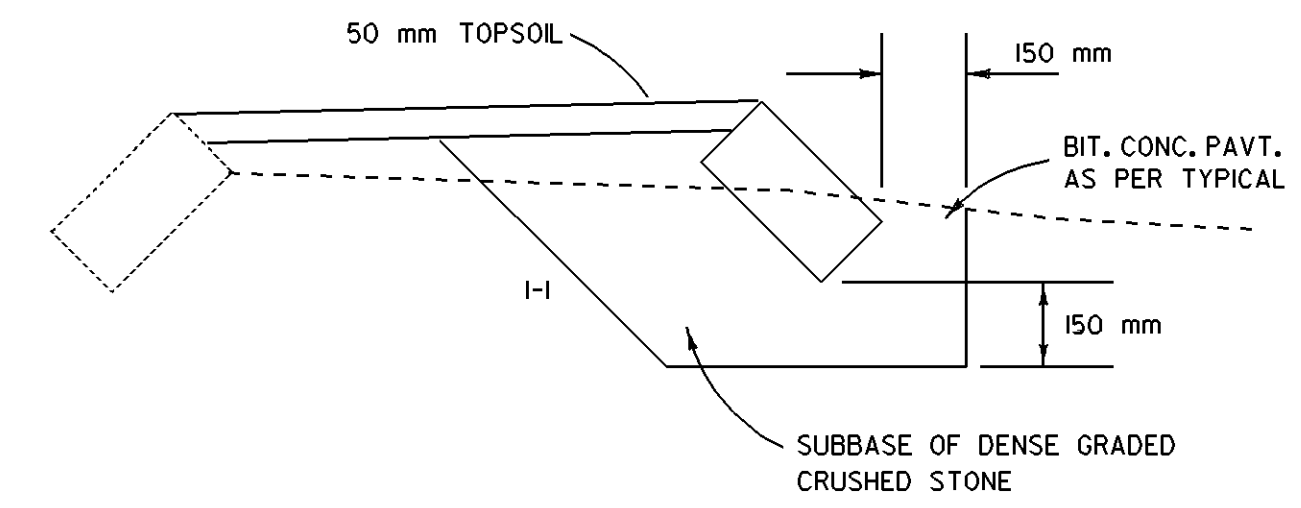
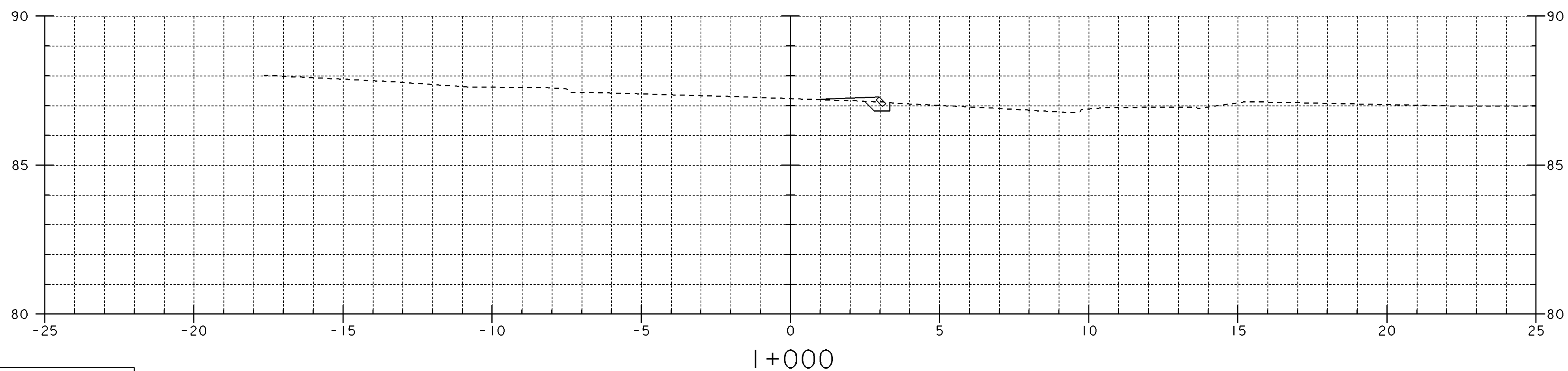
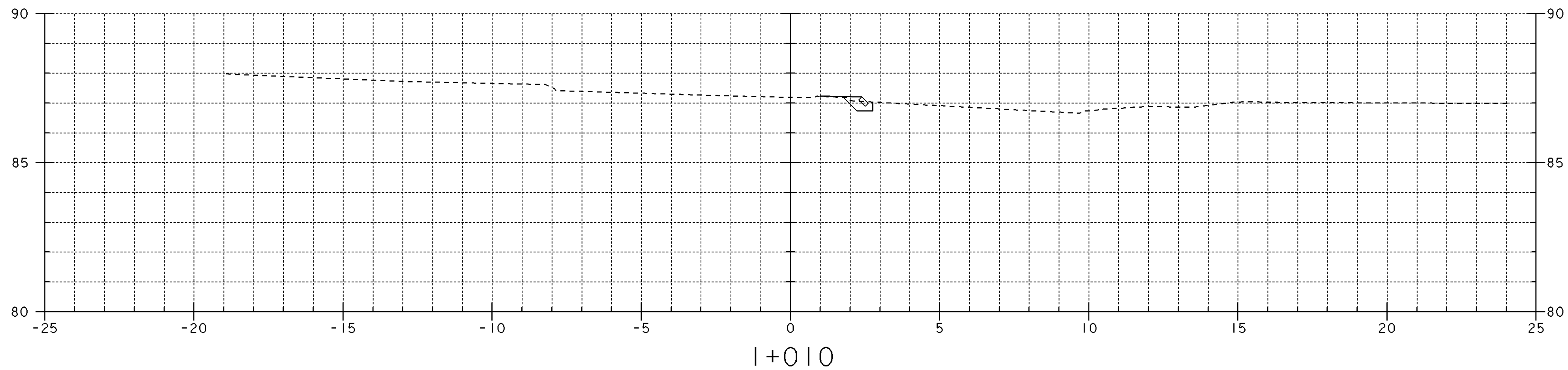
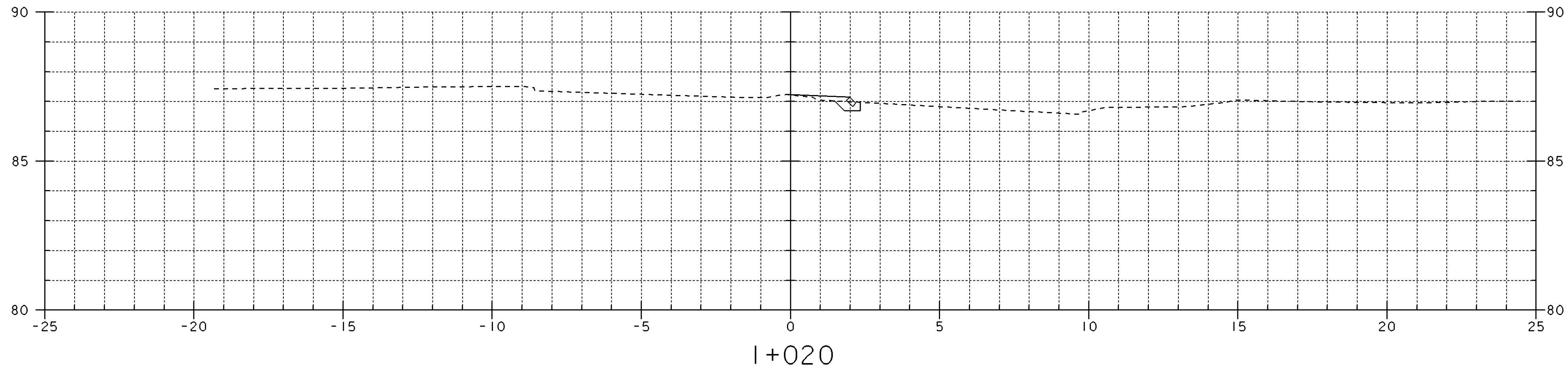
ABBREVIATION	QUANTITY	ITEM NUMBER	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
TREES						
A. T.	1	656.30	ACER TATARICUM	TATARIAN MAPLE	75-90 MM CAL.	CLEAR STEM TO 1.8 M
F. P.	13	656.30	FRAXINUS PENNSYLVANICA *PATMORE*	PATMORE ASH	75 - 90 MM CAL	CLEAR STEM TO 1.8 M
M. A.	3	656.30	MALUS "ADAMS"	ADAMS CRAB	50-65 MM CAL.	HEAVY HEAD
M. F.	3	656.30	MALUS FLORIBUNDA	JAPANESE FLOWERING CRAB	50-65 MM CAL.	HEAVY HEAD
M. S.	3	656.30	MALUS "SNOWDRIFT"	SNOWDRIFT CRAB	50-65 MM CAL.	HEAVY HEAD
P. A.	3	656.20	PICEA ABIES	NORWAY SPRUCE	1.8-2.4 M HT.	
SHRUBS						
E. A.	10	656.35	EUONYMUS ALATUS *COMPACTUS*	DWARF WINGED EUONYMUS	0.610-0.915 M HT.	INSTALL 1.2 M ON CENTER
H. A.	36	656.35	HYDRANGEA ARBORESCENS *ANNABELLE*	ANNABELLE HYDRANGEA	0.610-0.915 M HT.	INSTALL 1.2 M ON CENTER
I. V. R. S.	40	656.35	ILEX VERTICILLATA *RED SPRITE* (EARLY FEMALE)	RED SPRITE WINTERBERRY	0.455-0.610 M HT.	INSTALL 1.1 M ON CENTER
I. V. E. M.	6	656.35	ILEX VERTICILLATA *EARLY MALE*	EARLY MALE WINTERBERRY	0.455-0.610 M HT.	INSTALL 1.1 M ON CENTER
E. F. V.	200	656.35	EUONYMUS FORTUNEI VEGETUS	WINTERCREEPER	0.455-0.610 M HT.	INSTALL 1.2 M ON CENTER
R. M. F.	75	656.25	RHODODENDRON *MOLLY FORDHAM*	MOLLY FORDHAM RHODODENDRON	0.455-0.610 M HT.	INSTALL 0.9 M ON CENTER
PERENNIALS						
H. S. D.	2000	656.40	HEMEROCALLIS - STELLA DEORO	DAYLILLY - YELLOW RECURRING BLOOM	2YR. FIELD GROWN	INSTALL 0.3 M ON CENTER

LANDSCAPE PLANTING DETAILS

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH_2000 (18)
DESIGN FILE NAME:	/sqdc/93d191/3891d1.dgn	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd191p+2.i	SURVEYED BY:	
SQUAD LEADER:		DRAWN BY:	
		SHEET:	51 OF 67

KATHLEEN RYAN, L.A. **Storch Associates**  
 274 MAPLE STREET BURLINGTON, VT. 05401 802-863-4091  
 1 PERIMETER RD. UNIT 6 MANCHESTER NEW HAMPSHIRE 603-623-5544

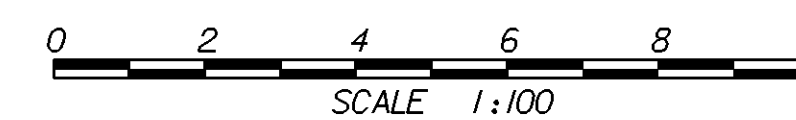
DATUM	
VERTICAL	
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CURBED ISLAND TAPER DETAIL

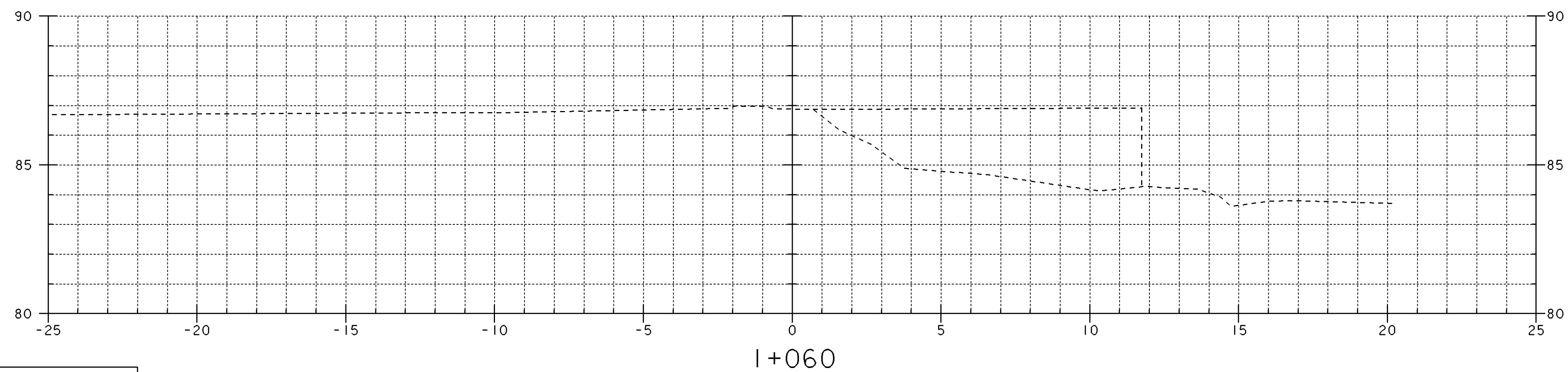
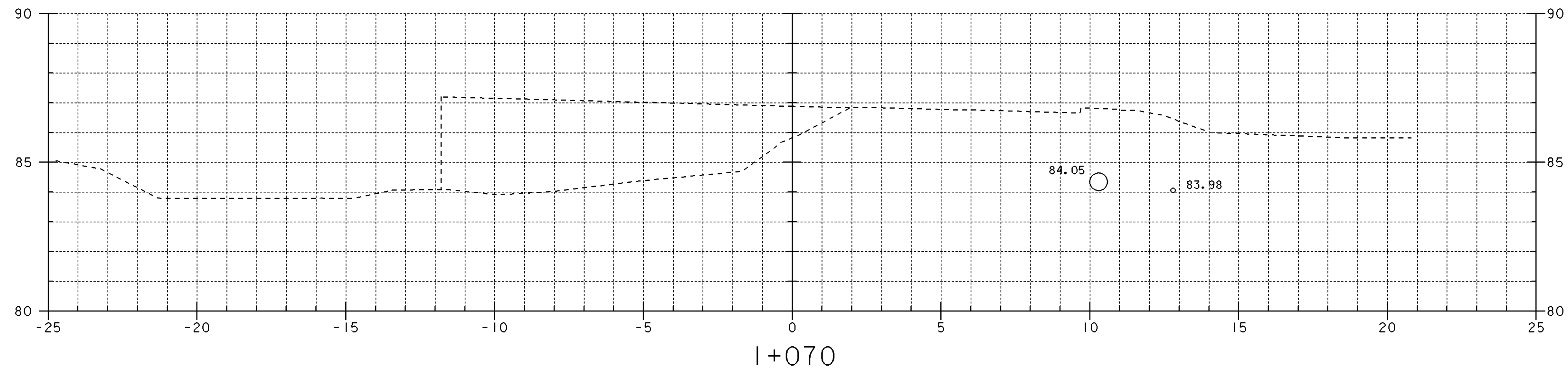
U.S. RTE. 5--SOUTH SECTION

PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: Zsdc\93d19\dd19\ss3.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\011	SURVEY DATE:
SQUAD LEADER: MENARD	DRAWN BY: SQUAD_C
	SHEET: 52 OF 67



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

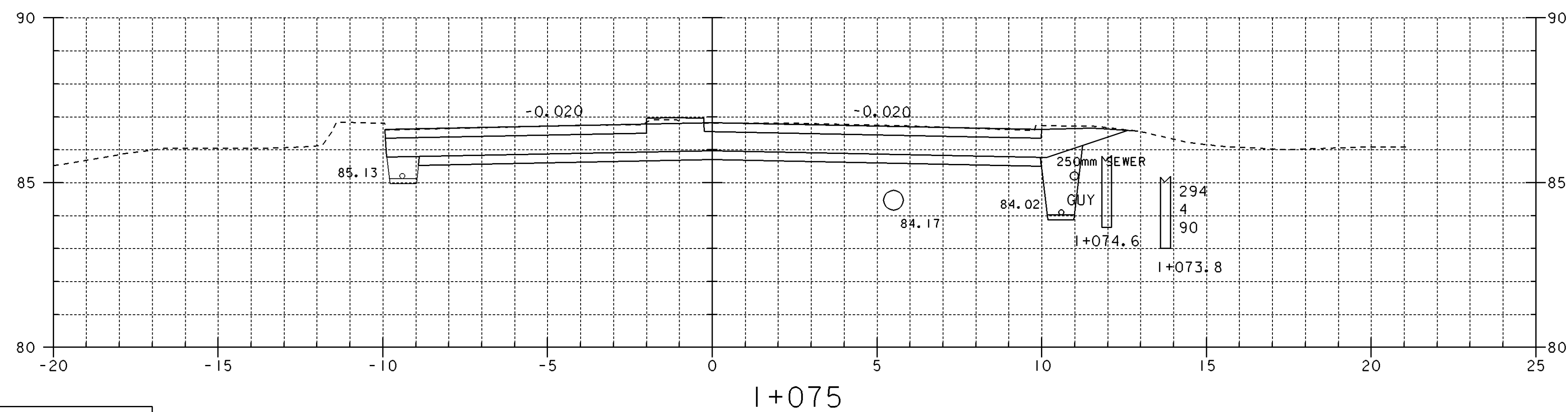
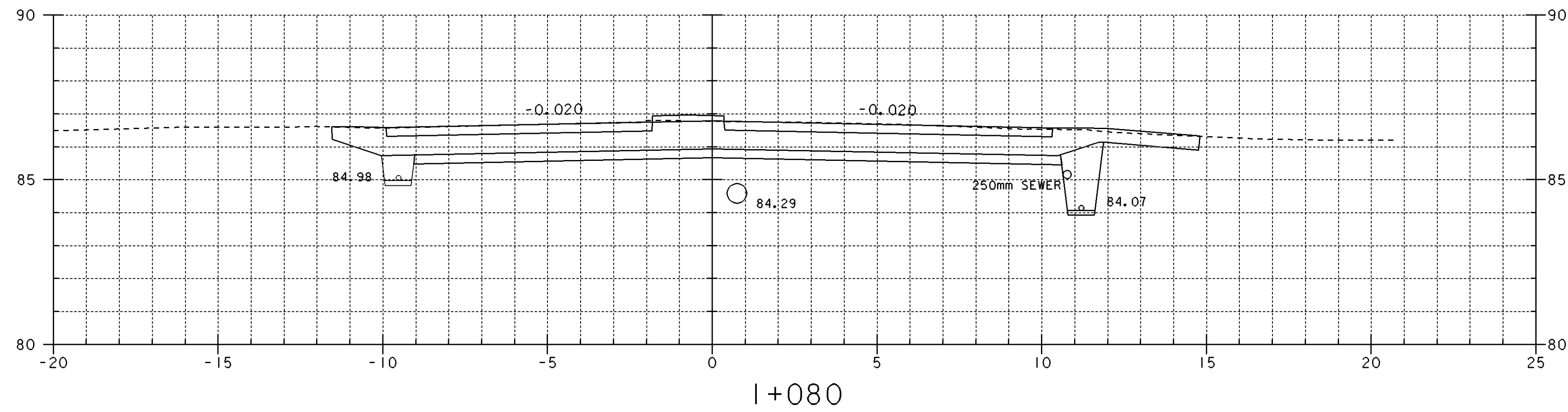
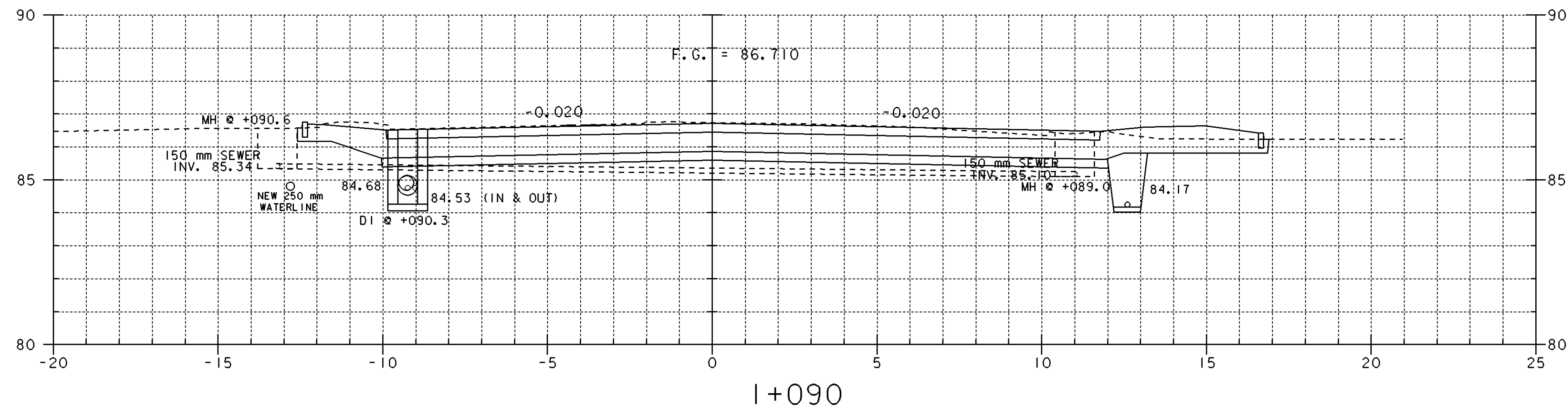




DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



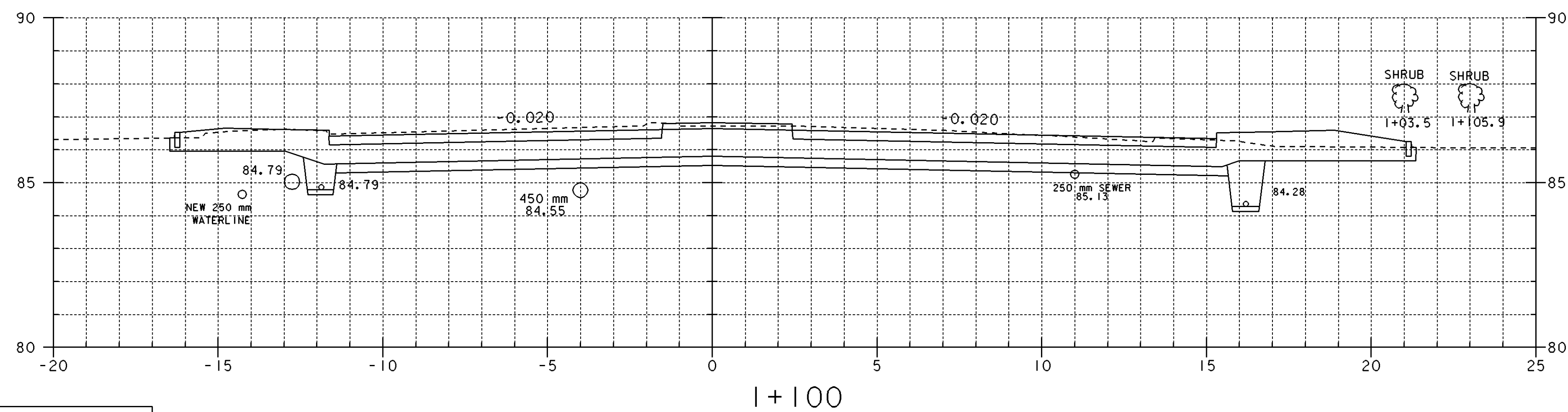
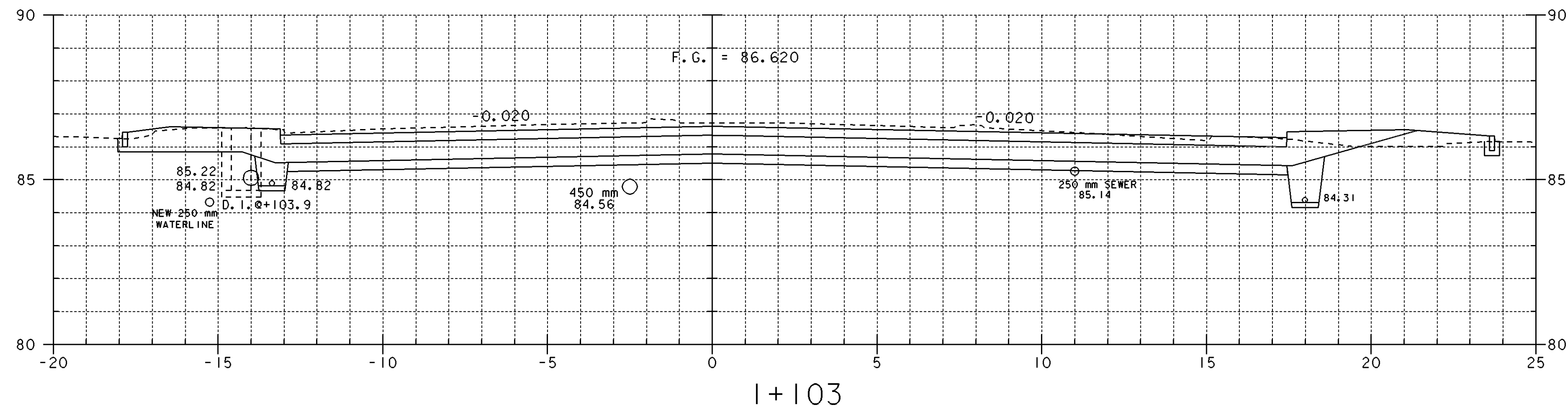
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PROJECT: BRATTLEBORO	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: Zsqdc\93d19\dd19\ss3.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\ss3.i	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 54 OF 67



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



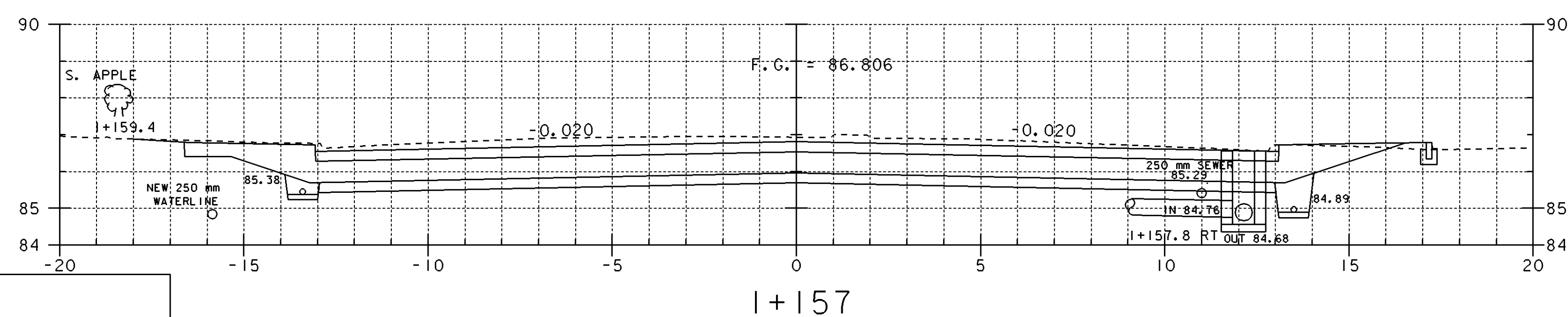
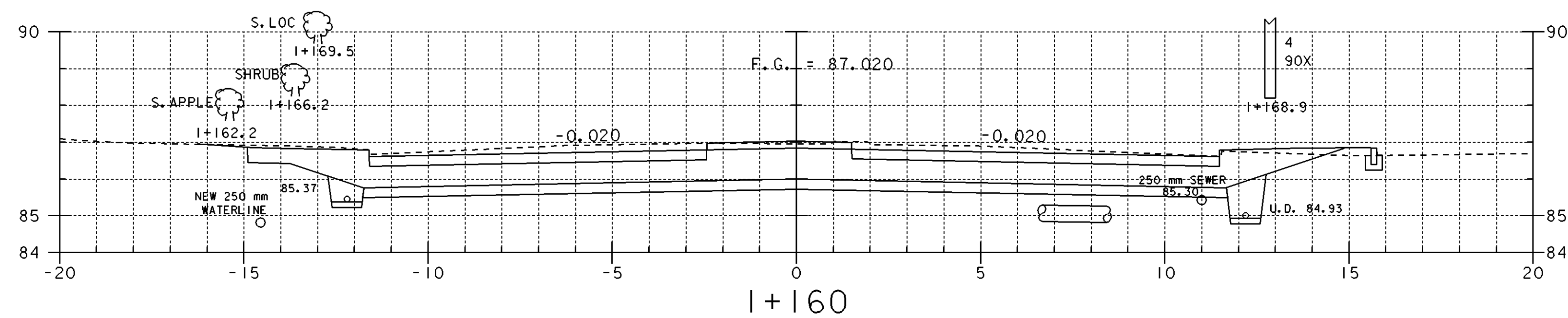
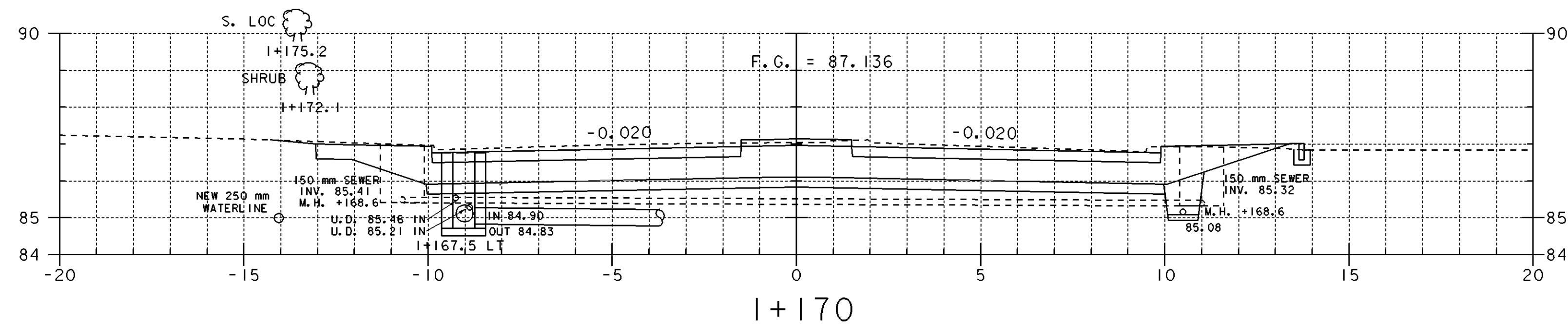
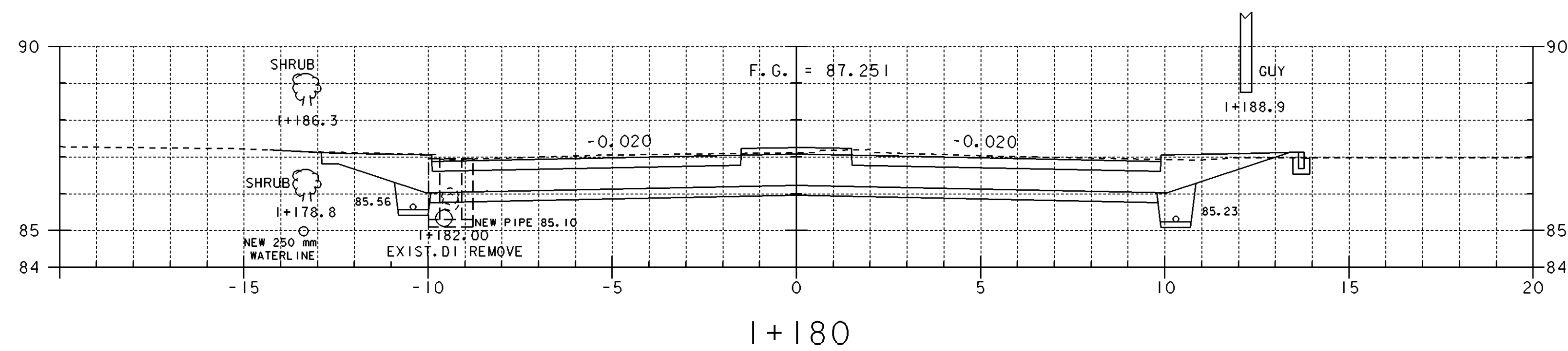
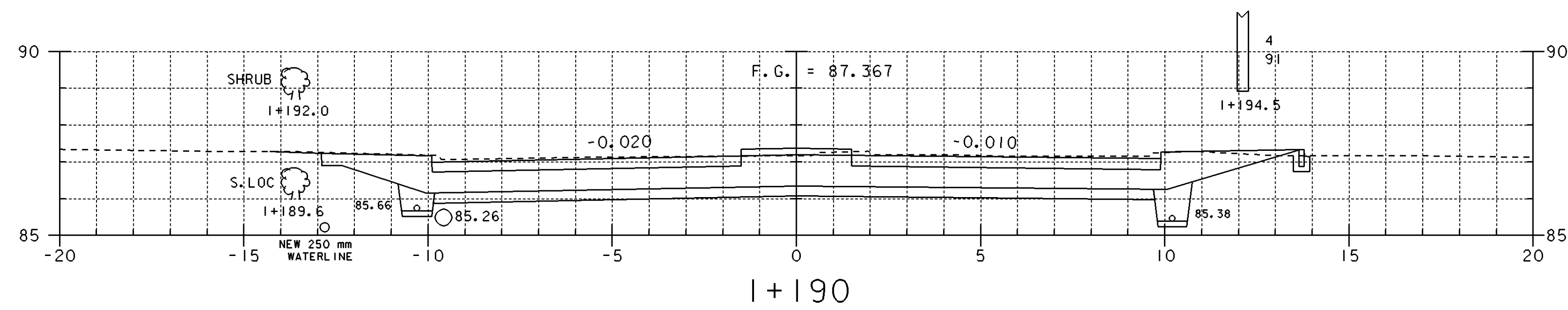
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IPARM FILE NAME: dd19\04.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 55 OF 67



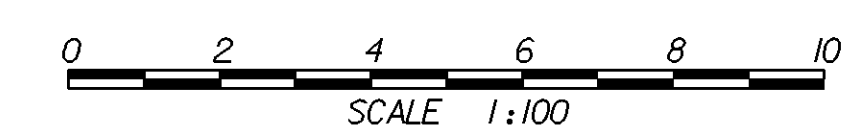
DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



U.S. RTE. 5--SOUTH SECTION	
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IPARM FILE NAME: ddi9\z05.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 56 OF 67

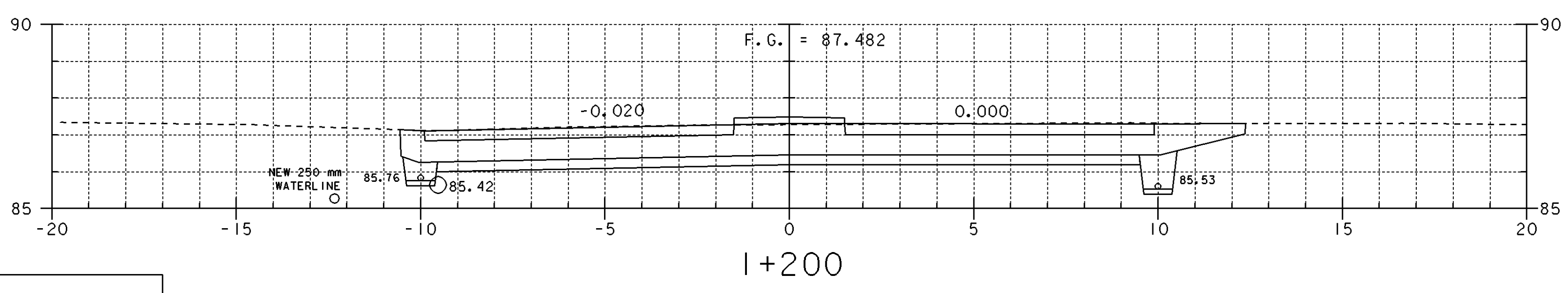
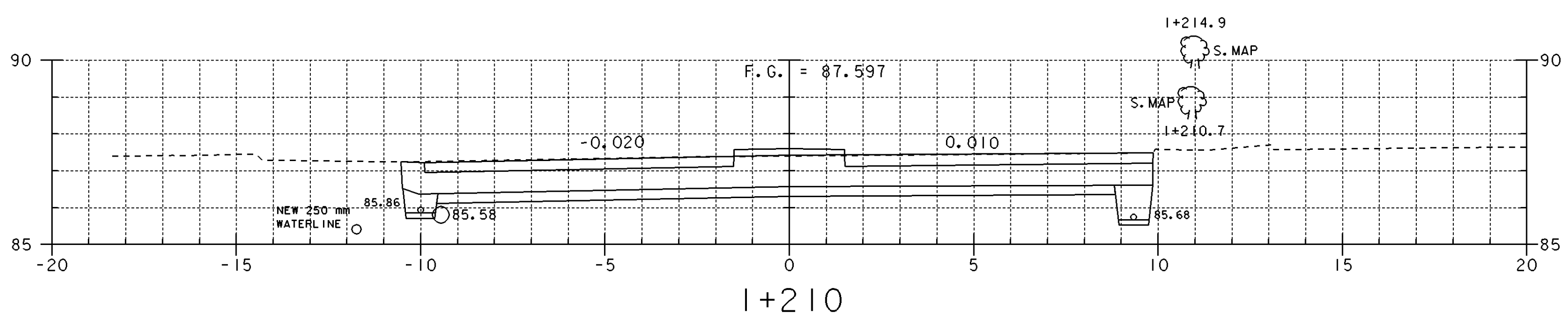
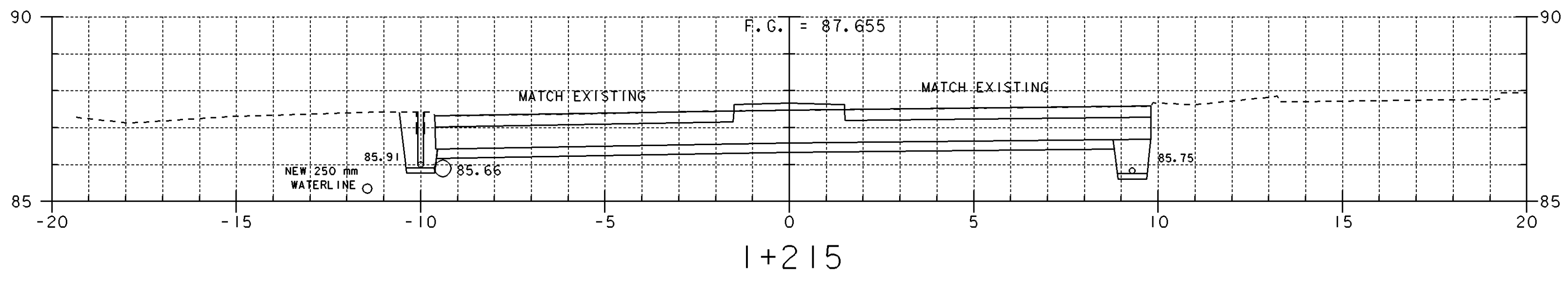
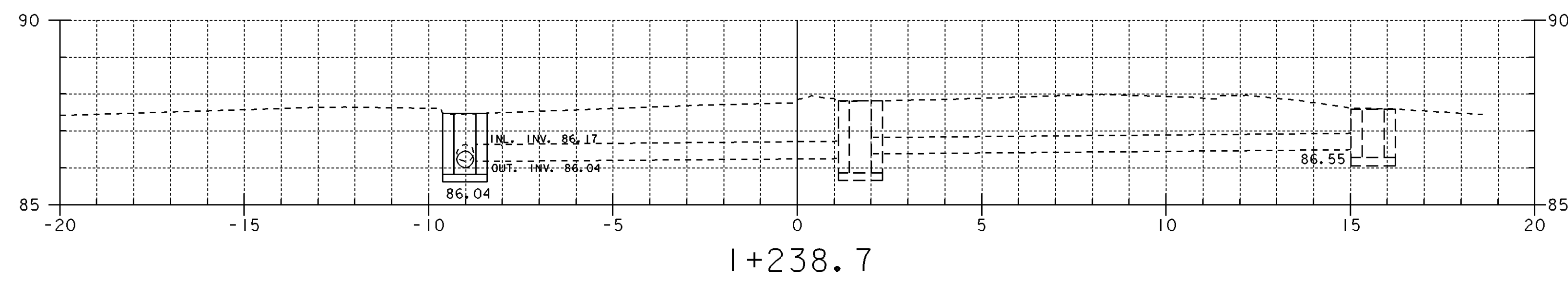


DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

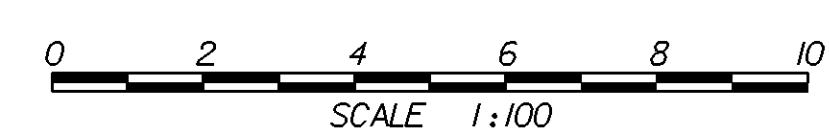


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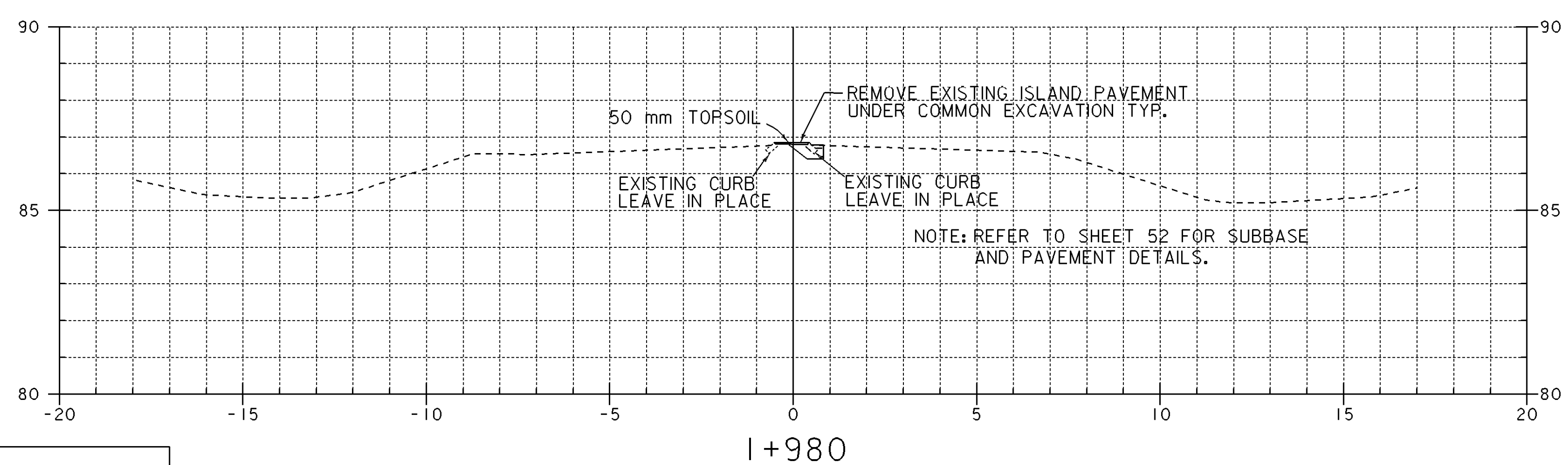
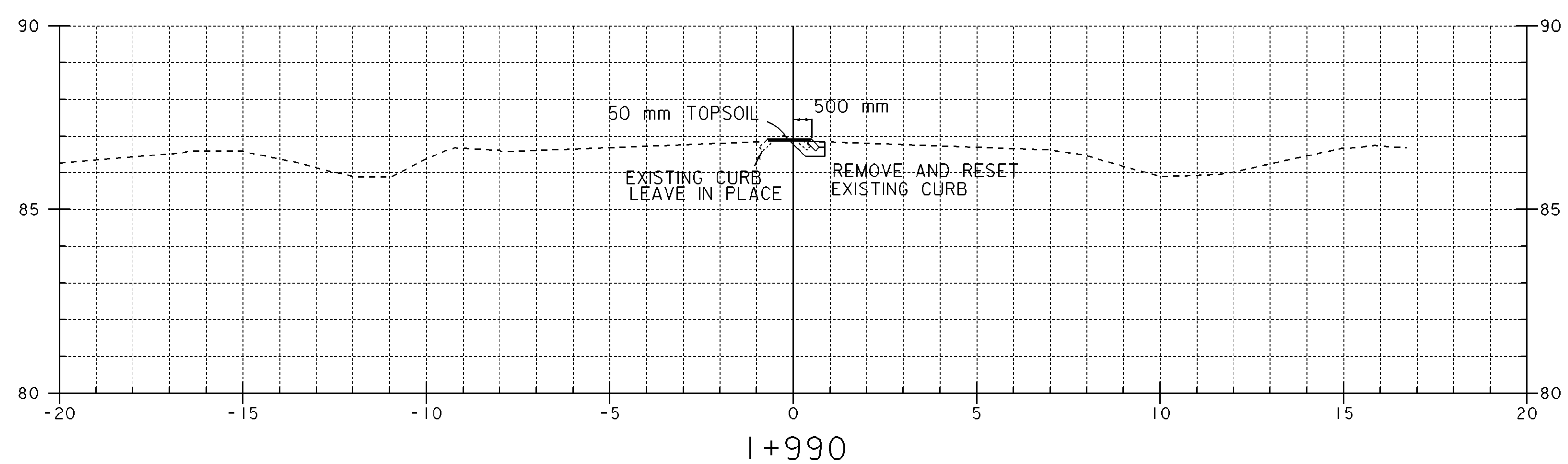
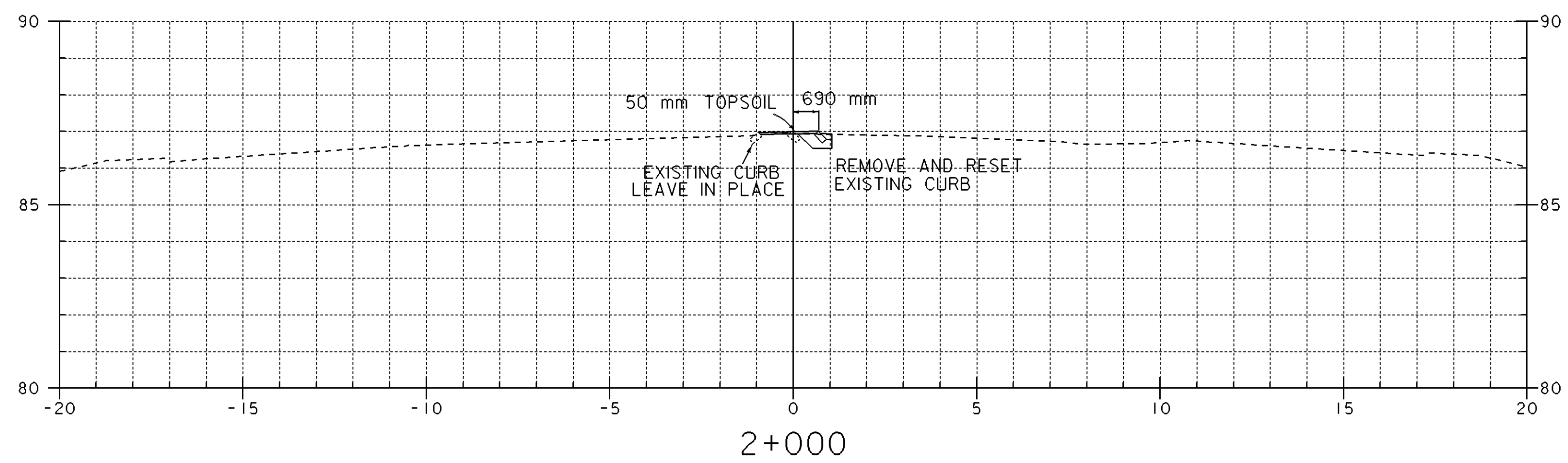
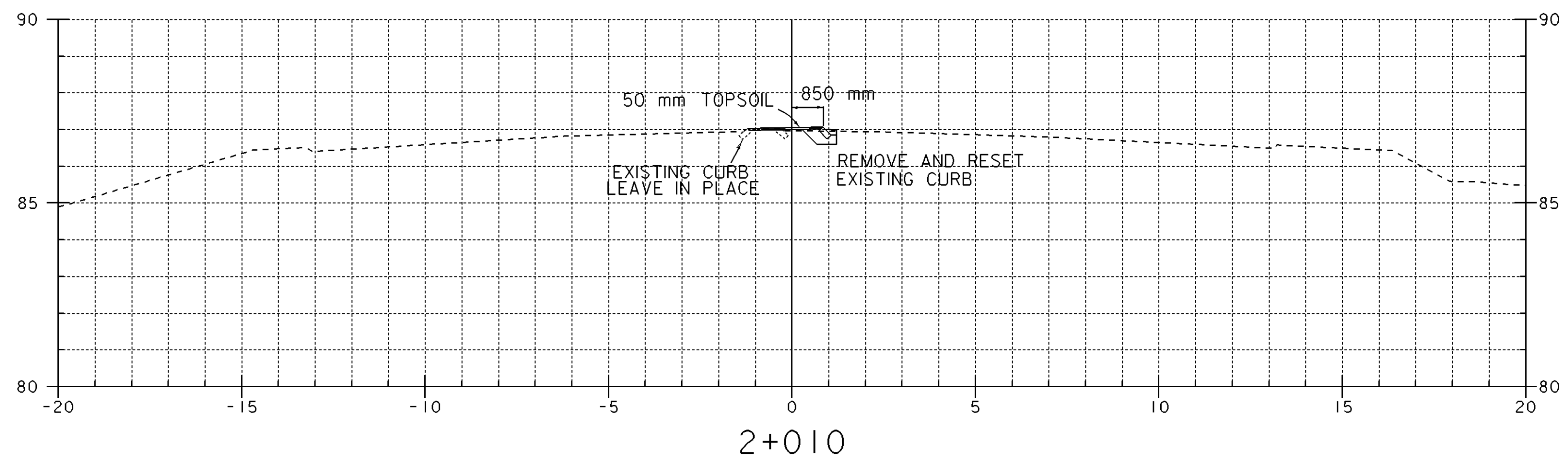
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IPARM FILE NAME:	dd191x06.l	SURVEY DATE:	
SURVEYED BY:		DRAWN BY:	SQUAD_C
SQUAD LEADER:	MENARD	SHEET:	57 OF 67



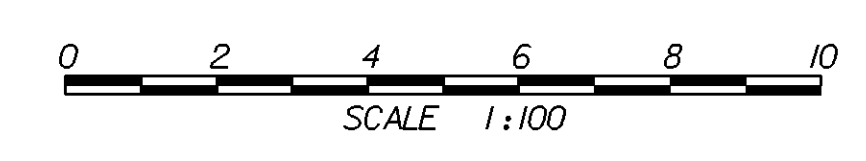
DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



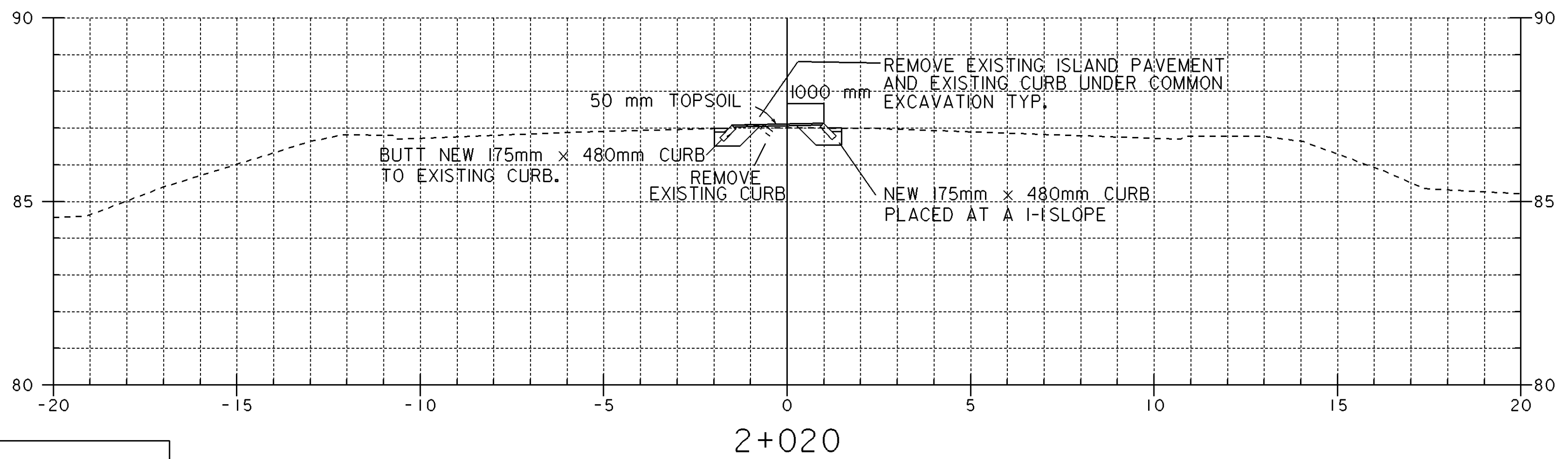
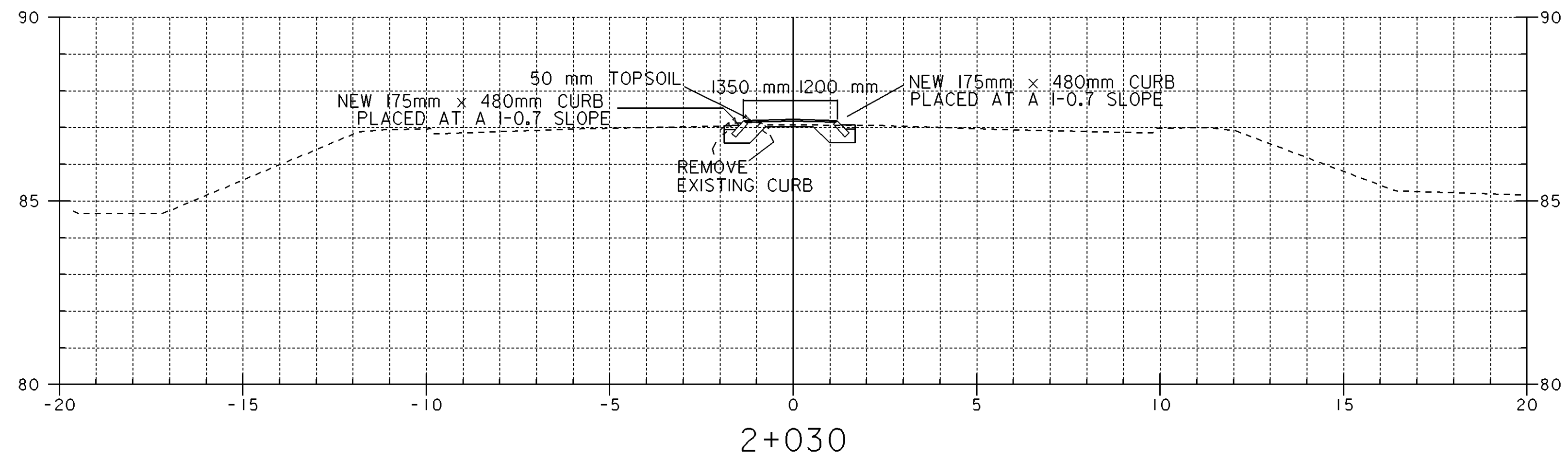
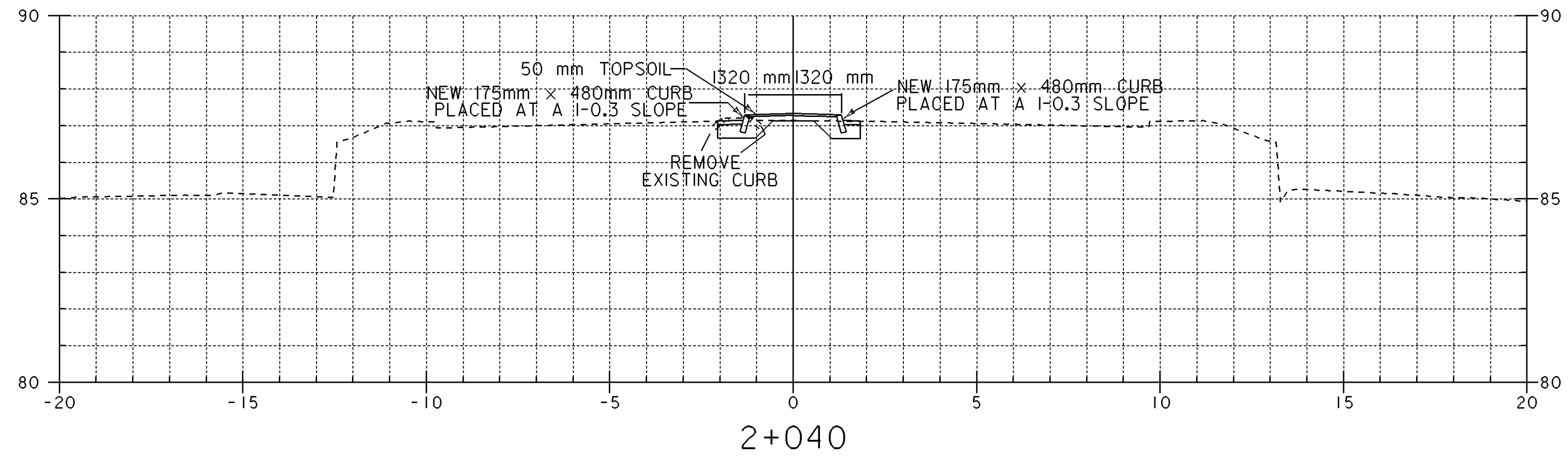
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PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: Zsdc\93d19\dd19\ss3.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\QT.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 58 OF 67



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



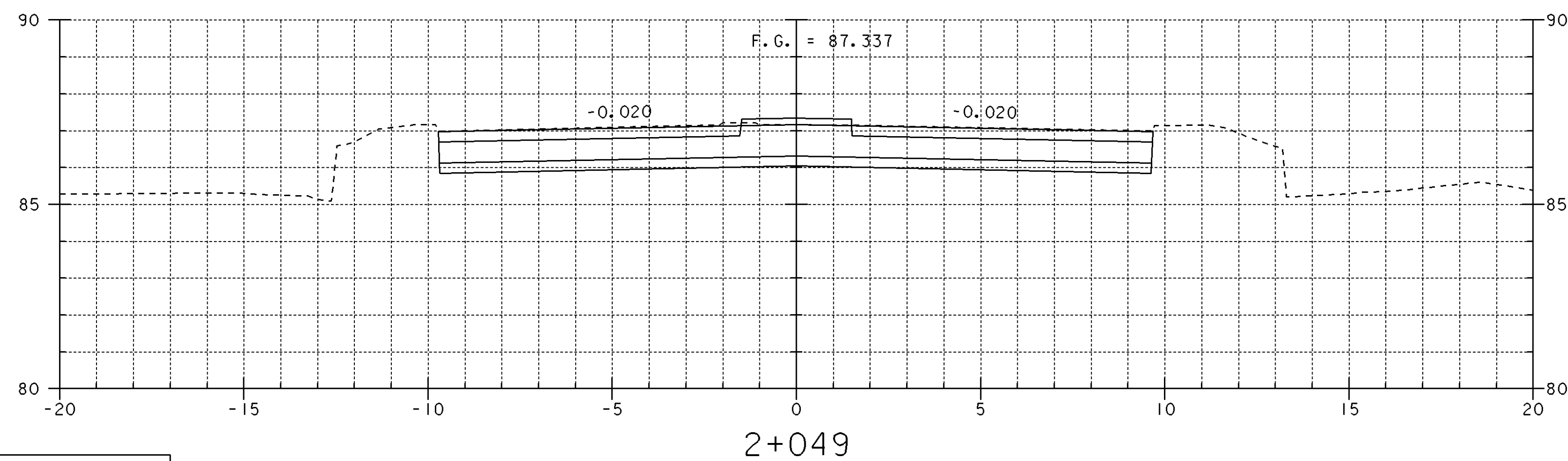
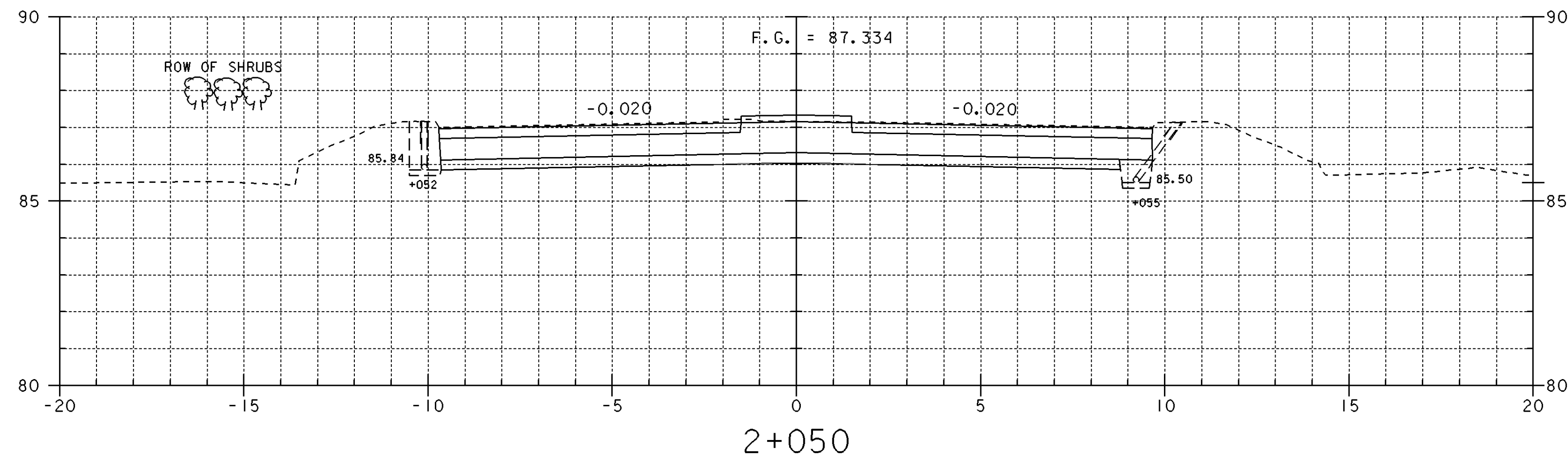
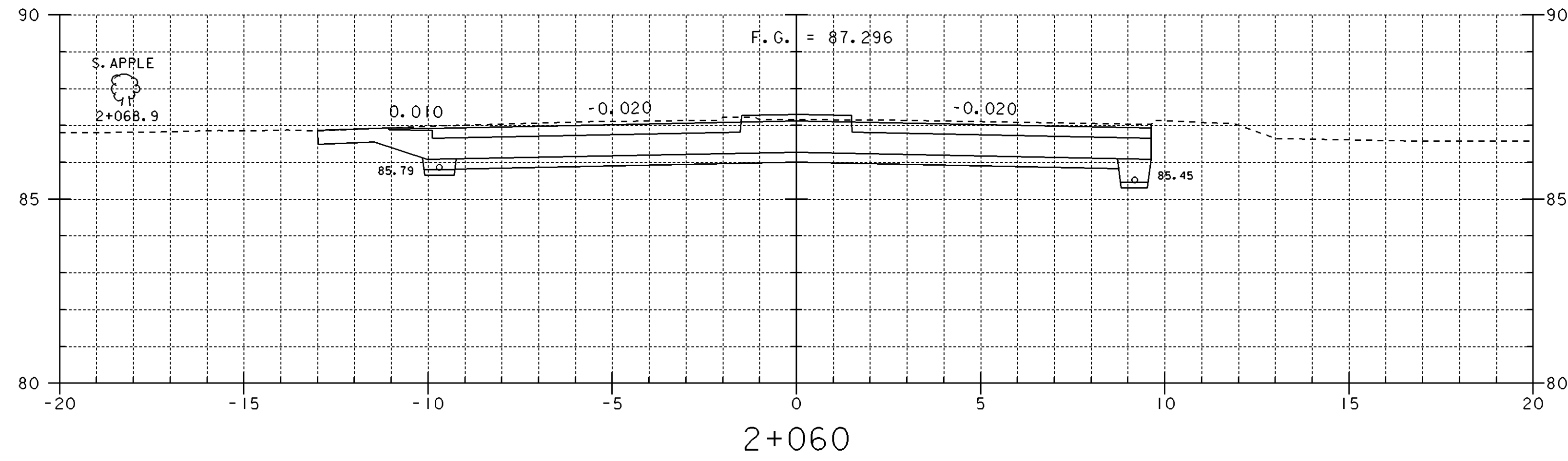
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DESIGN FILE NAME: Zsqdc\93d19\dd19\ss3.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\ss3.dgn	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 58A OF 67



DATUM  
VERTICAL \_\_\_\_\_  
HORIZONTAL \_\_\_\_\_



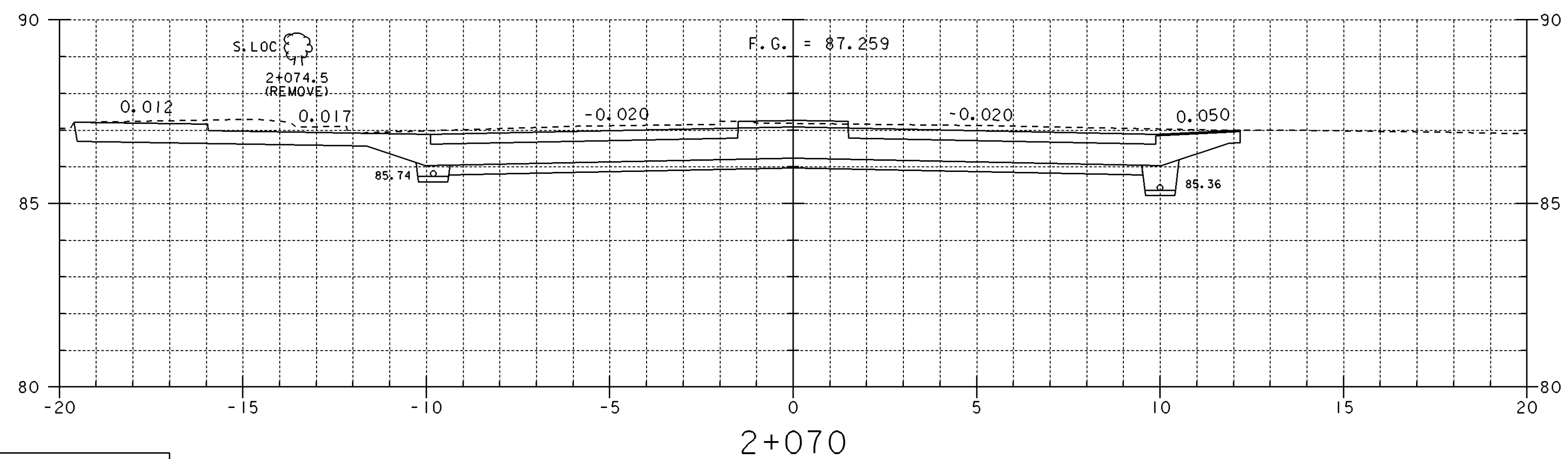
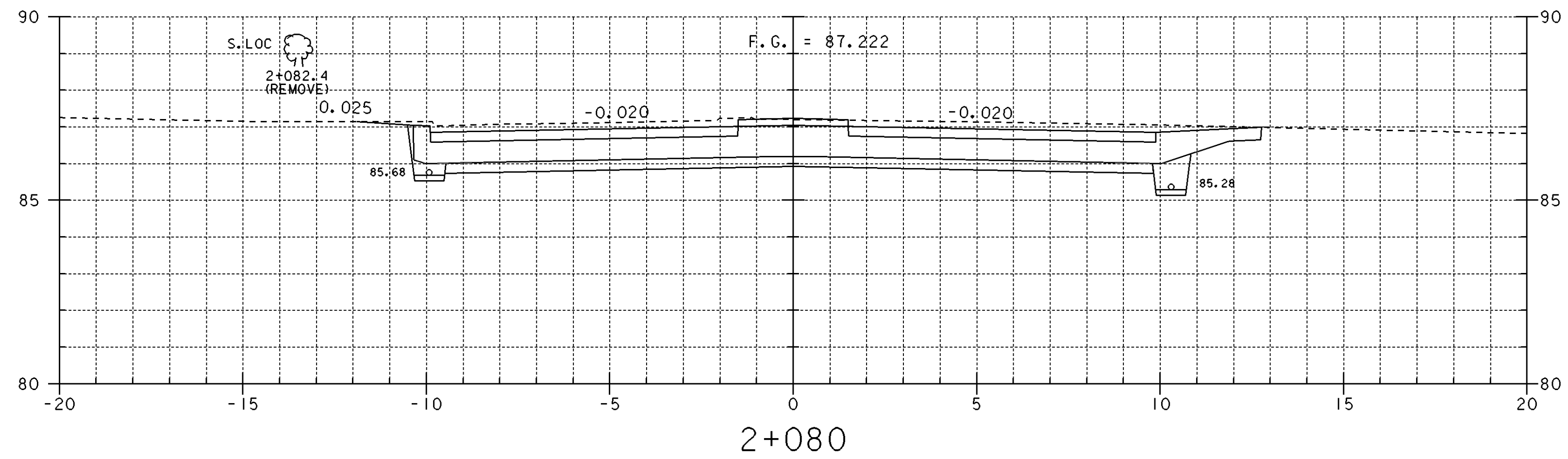
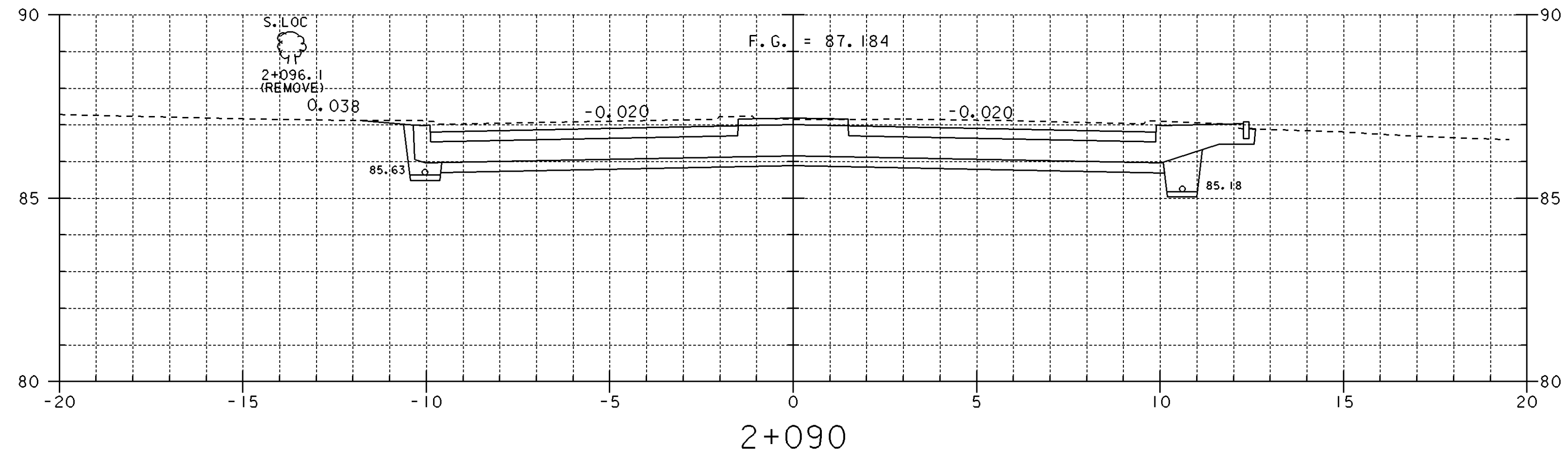
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DESIGN FILE NAME: Zsqdc\93d19\dd19\ss3.dgn	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\9b.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 58B OF 67



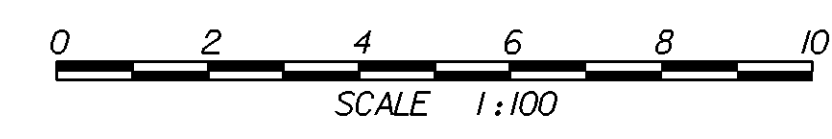
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VERTICAL	_____
HORIZONTAL	_____



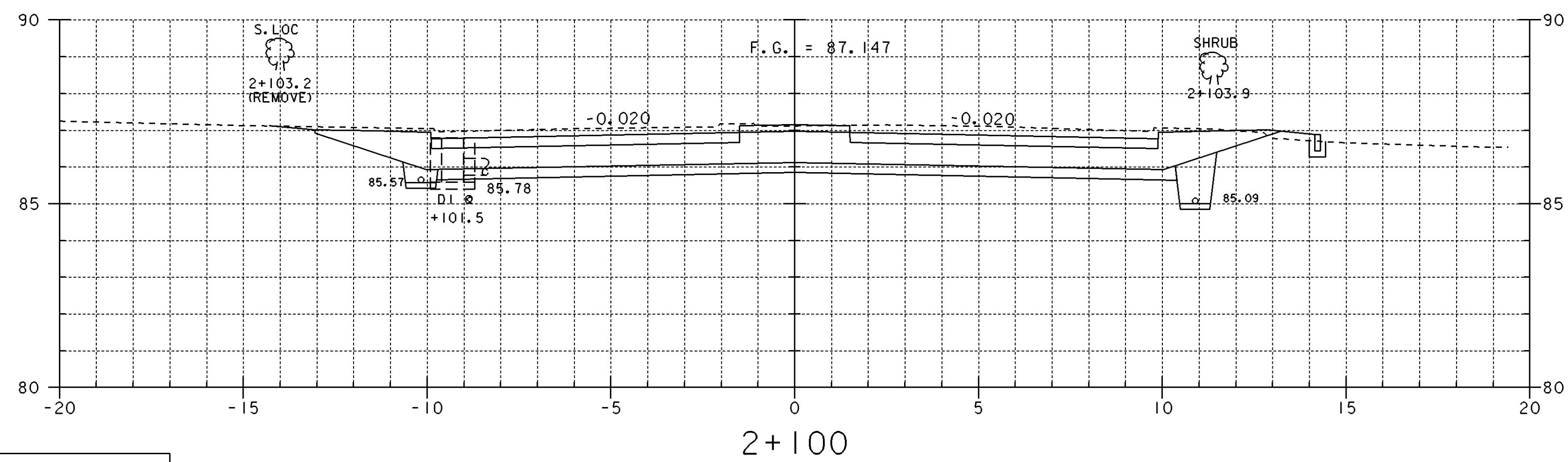
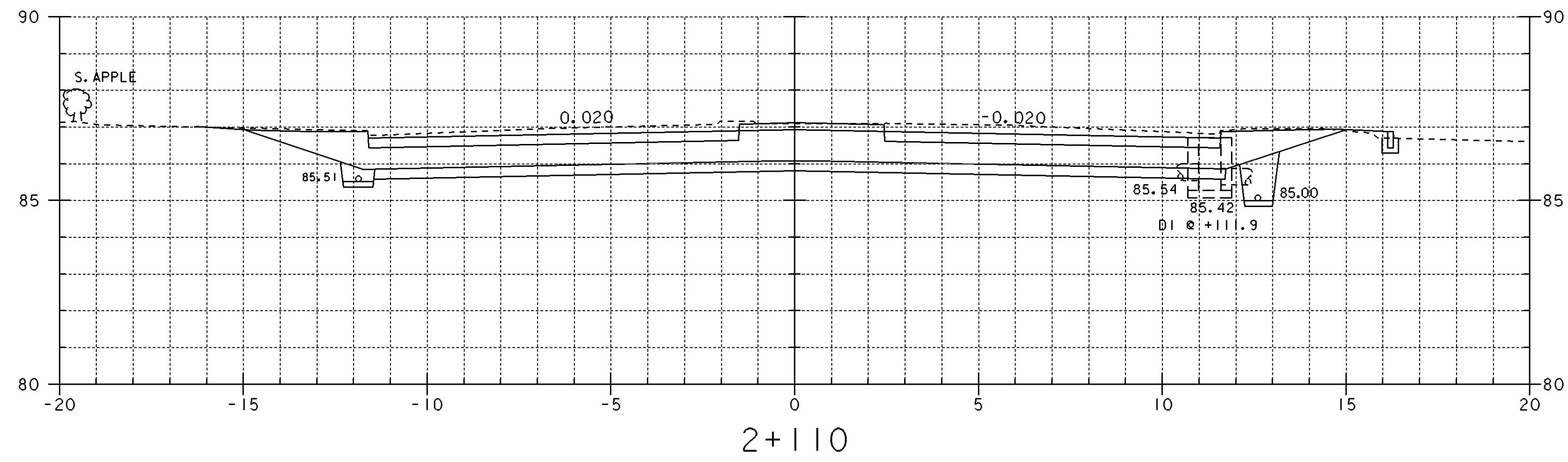
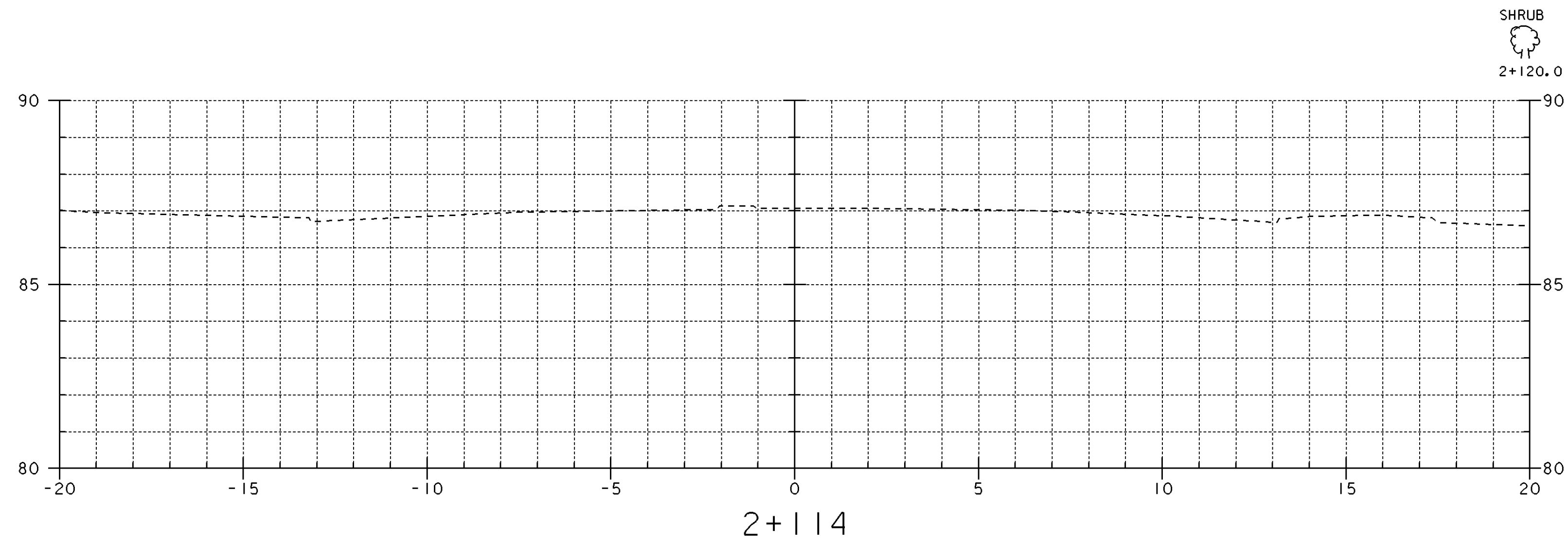
BRATTLEBORO ST. HWY.	
PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: sdc\293d191\dd191x33.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191x08.l	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 59 OF 67



DATUM  
 VERTICAL \_\_\_\_\_  
 HORIZONTAL \_\_\_\_\_



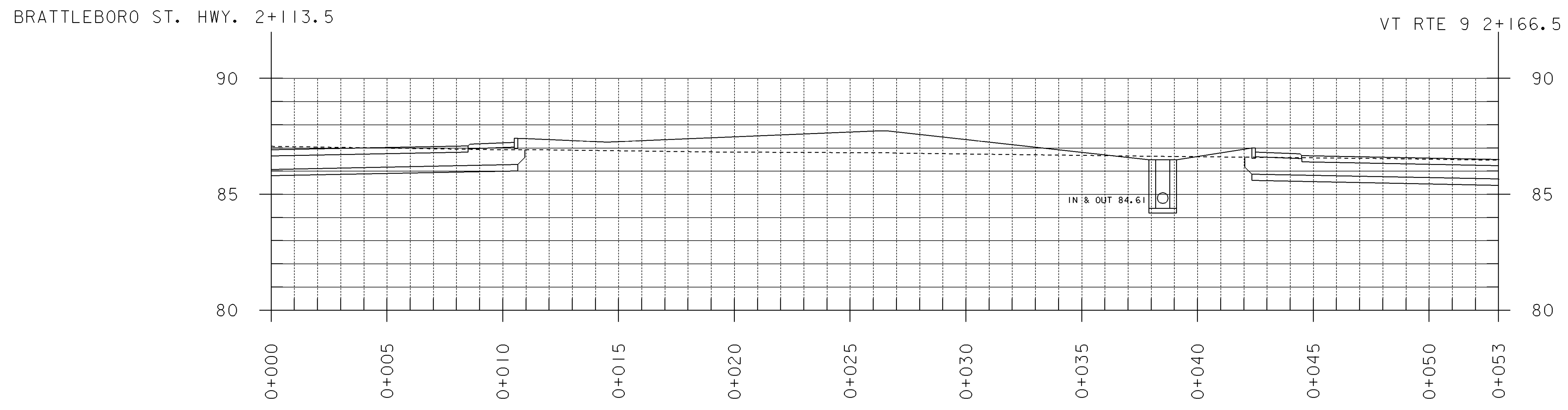
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PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: sdc\293d191\dd191s3.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd191x09.i	SURVEY DATE:
SQUAD LEADER: MENARD	DRAWN BY: SQUAD_C
	SHEET: 60 OF 67



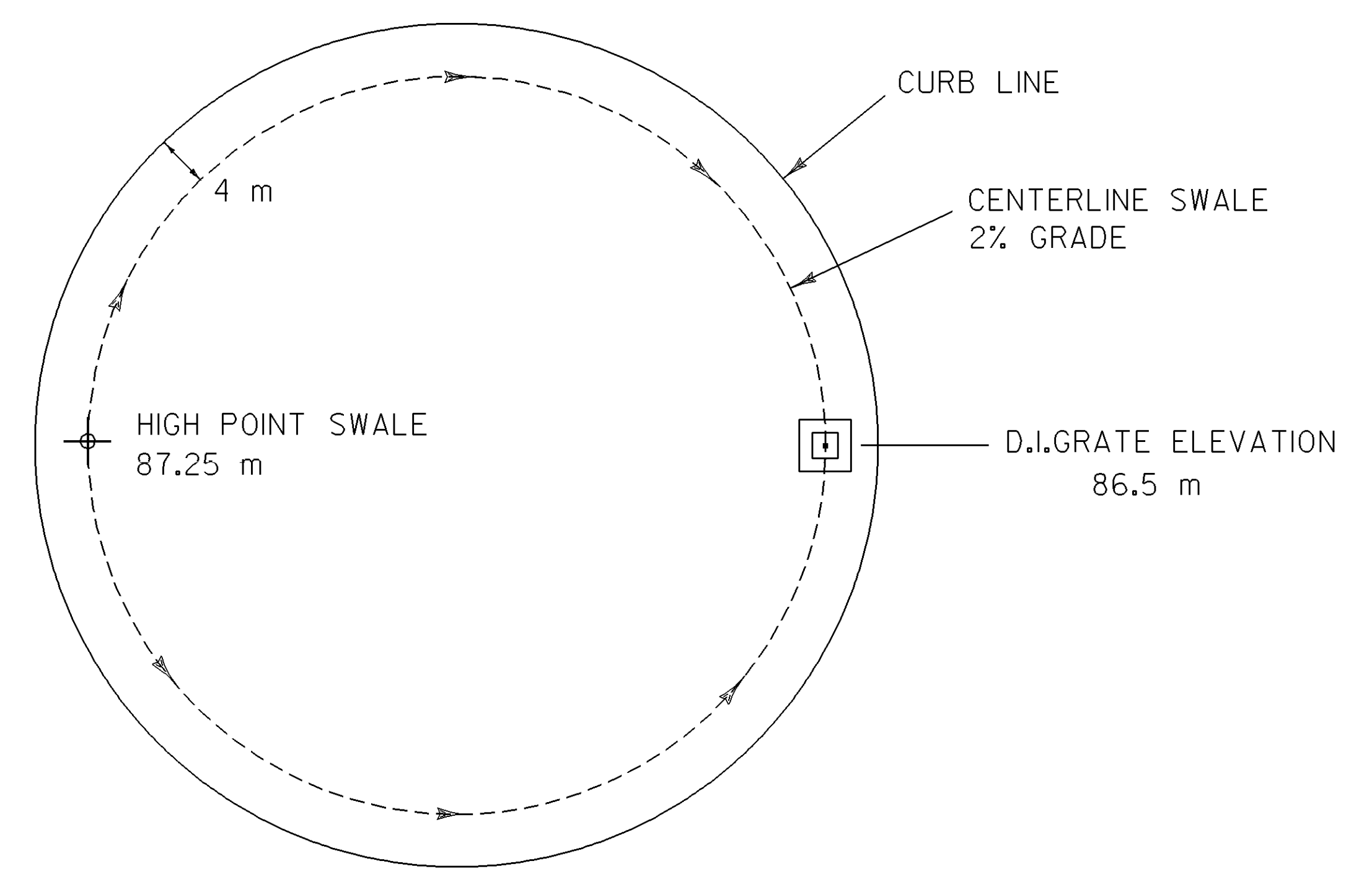
DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



BRATTLEBORO ST. HWY.	
PROJECT: <b>BRATTLEBORO</b>	PROJECT NO.: NH_2000(18)
DESIGN FILE NAME: sdc293d191zdd191z3.dwg	PLOT DATE: 8-APR-1999
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SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 61 OF 67



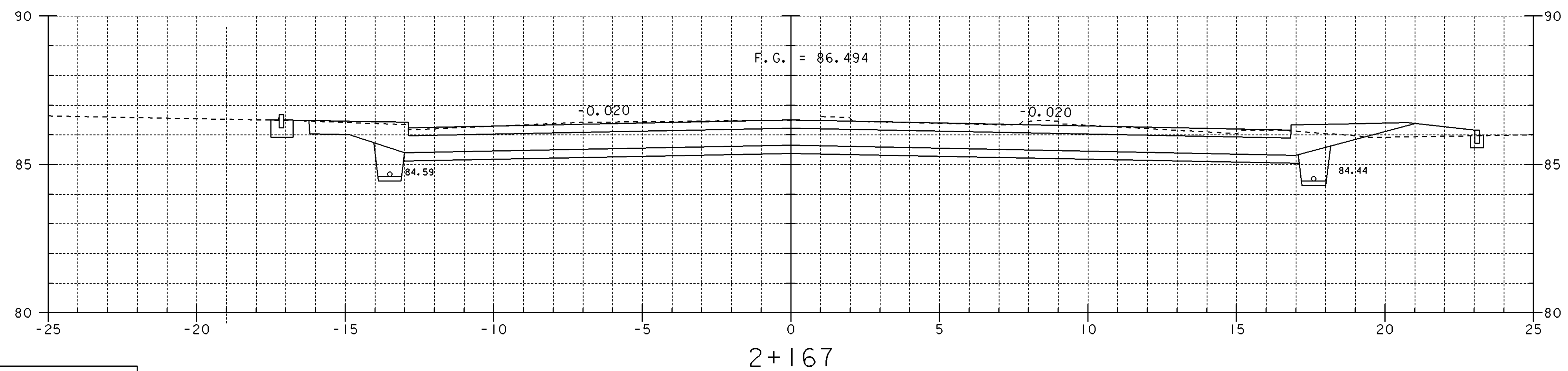
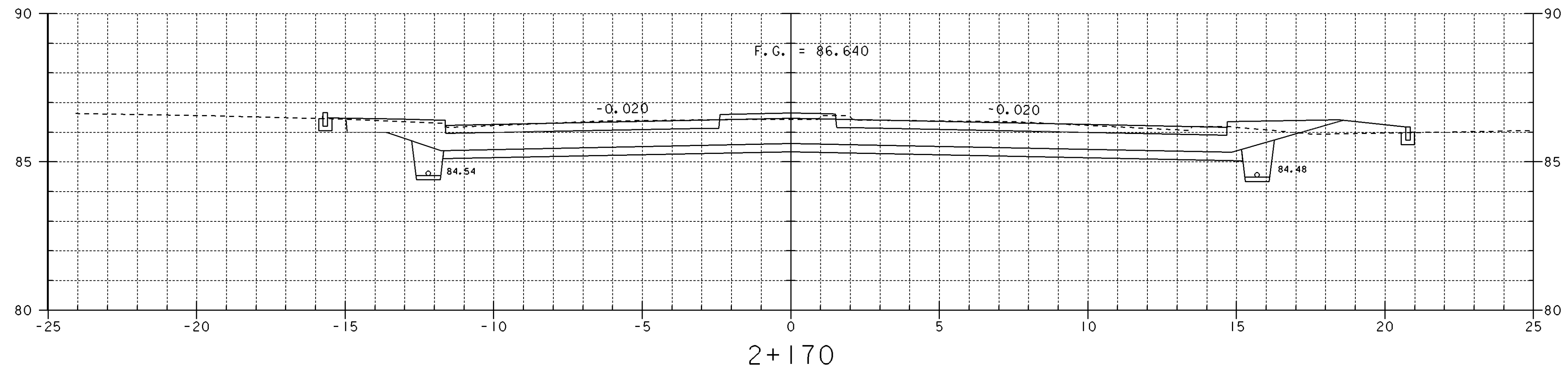
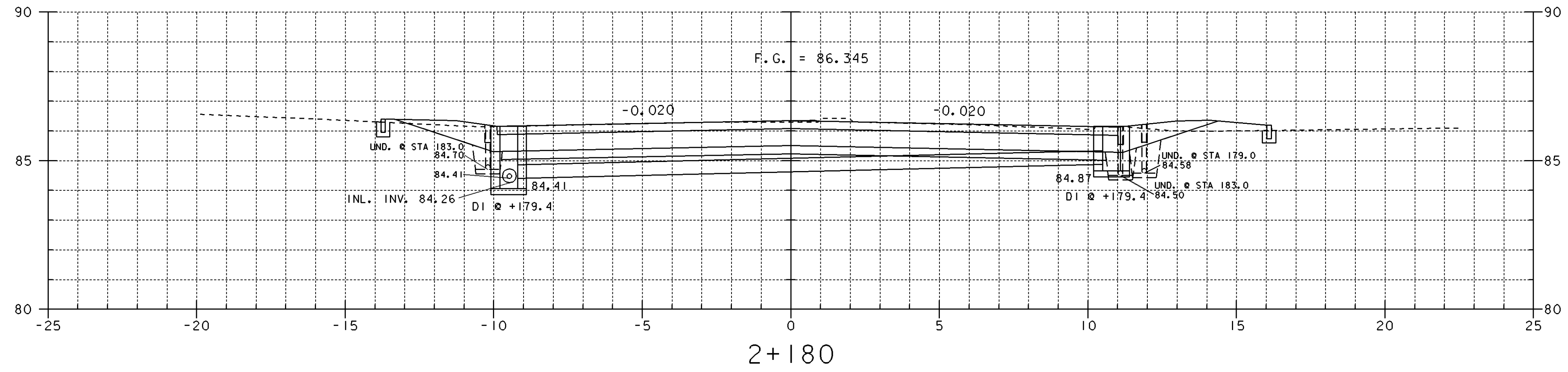
CROSS SECTION--CIRCULAR ROADWAY AND CENTRAL ISLAND



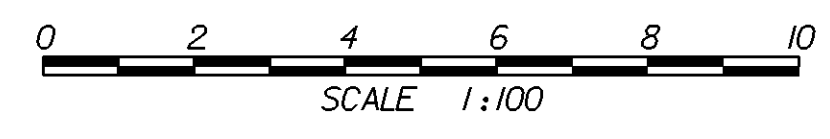
DRAINAGE DIAGRAM

DATUM	
VERTICAL	_____
HORIZONTAL	_____

PROJECT:	BRATTLEBORO	PROJECT NO.:	NH_2000(18)
DESIGN FILE NAME:	Z:\sdc\23d191\dd191xs3.dgn		
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SQUAD LEADER:	MENARD	DRAWN BY:	SQUAD_C
		SHEET:	62 OF 67

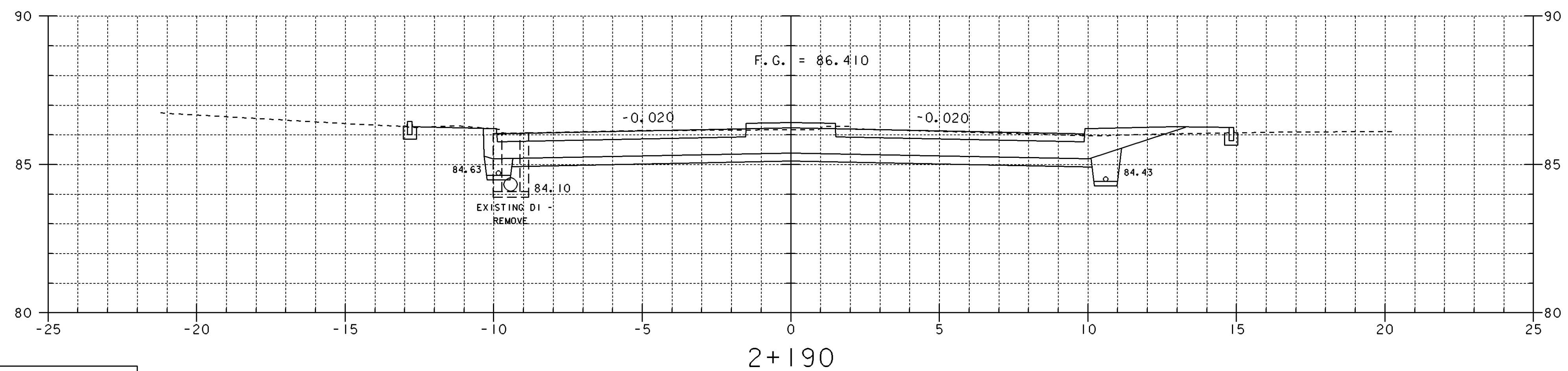
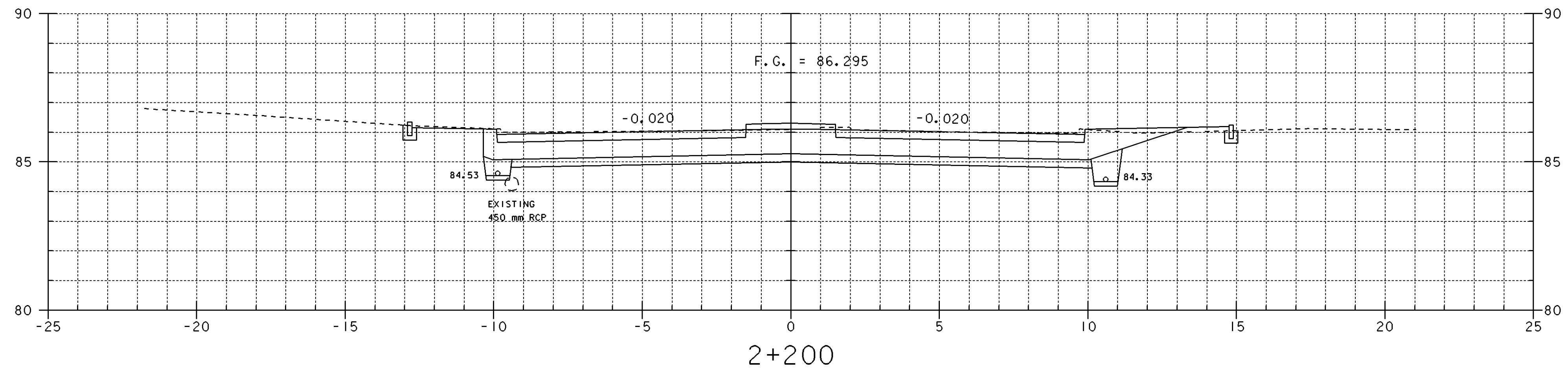
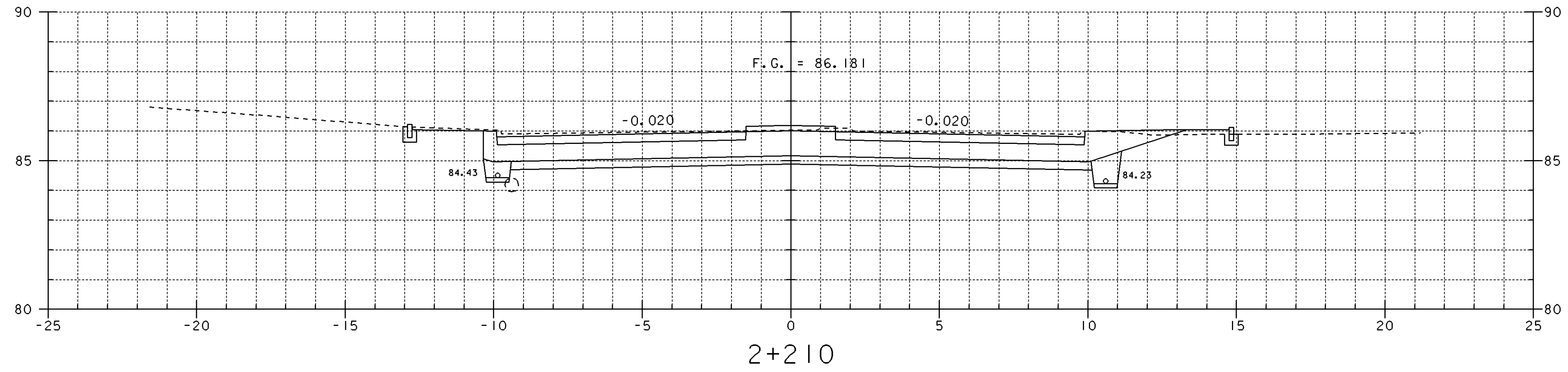


DATUM  
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 HORIZONTAL \_\_\_\_\_



PROJECT: BRATTLEBORO		PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: Zsqdc\93d191\dd191xs2.dwg	PLOT DATE: 8-APR-1999	
IPARM FILE NAME: dd191x121	SURVEY DATE:	
SURVEYED BY:	DRAWN BY: SQUAD_C	
SQUAD LEADER: MENARD	SHEET: 63 OF 67	

VT. RTE. 9

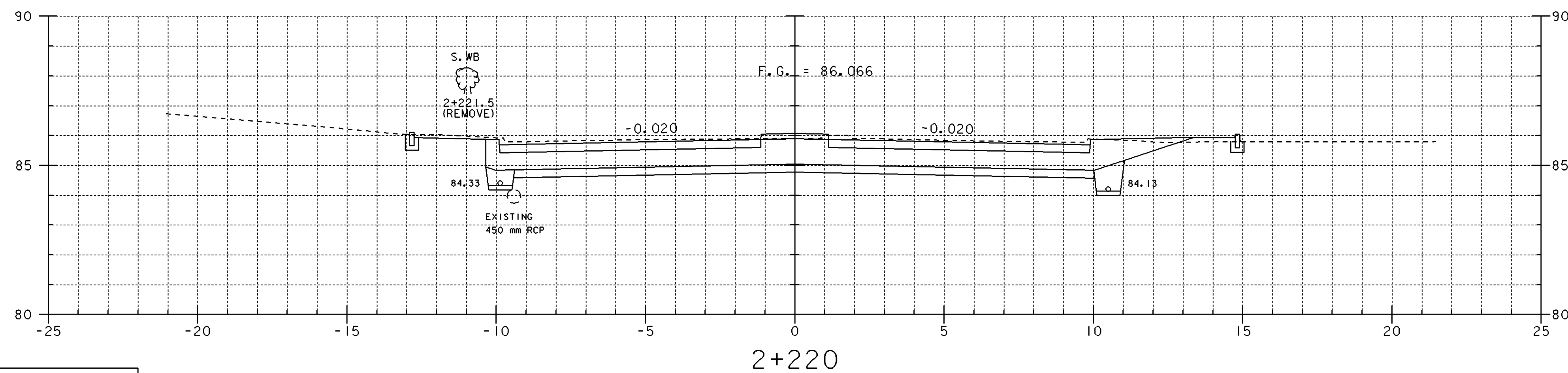
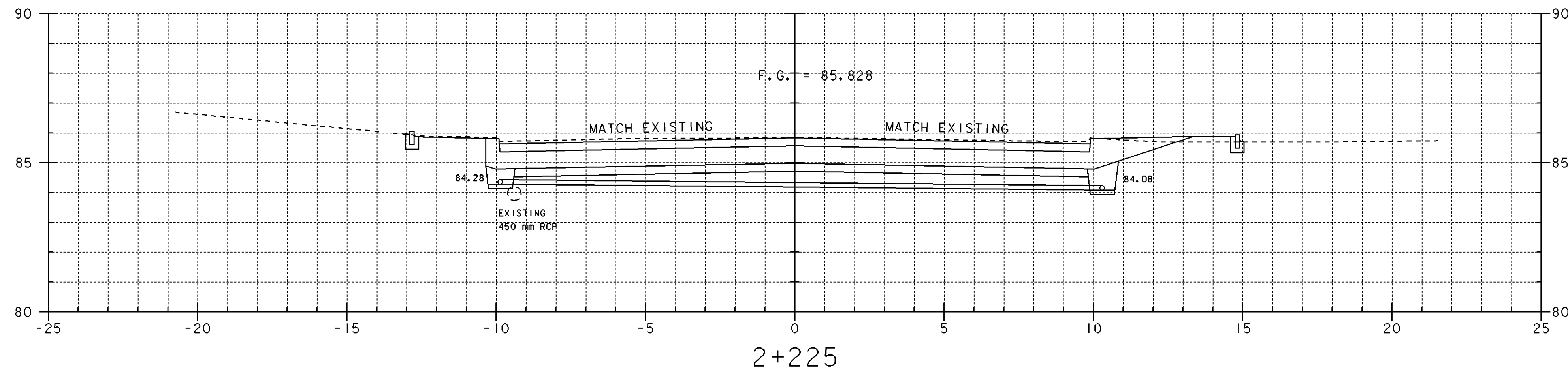


DATUM	_____
VERTICAL	_____
HORIZONTAL	_____



VT. RTE. 9

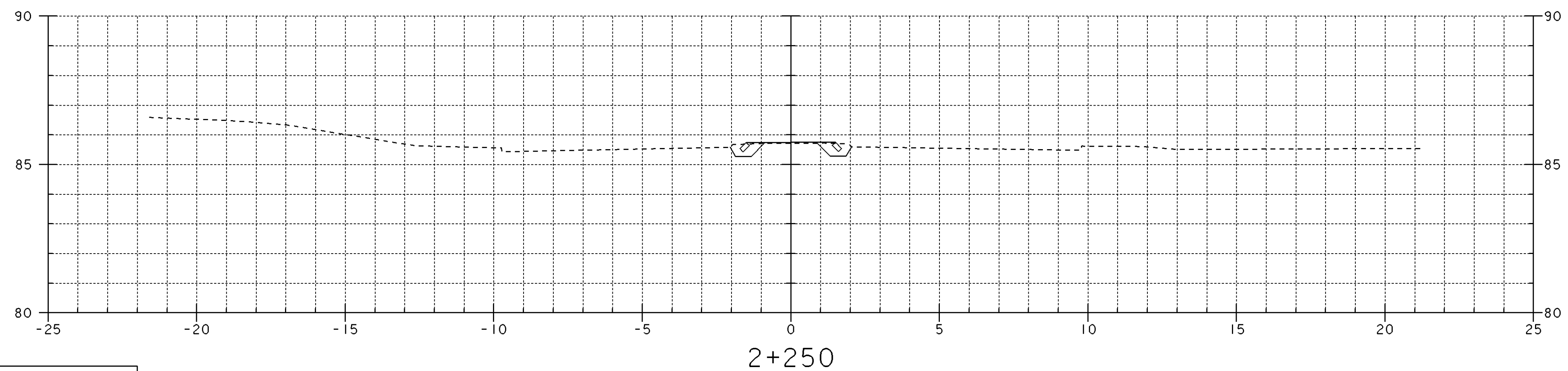
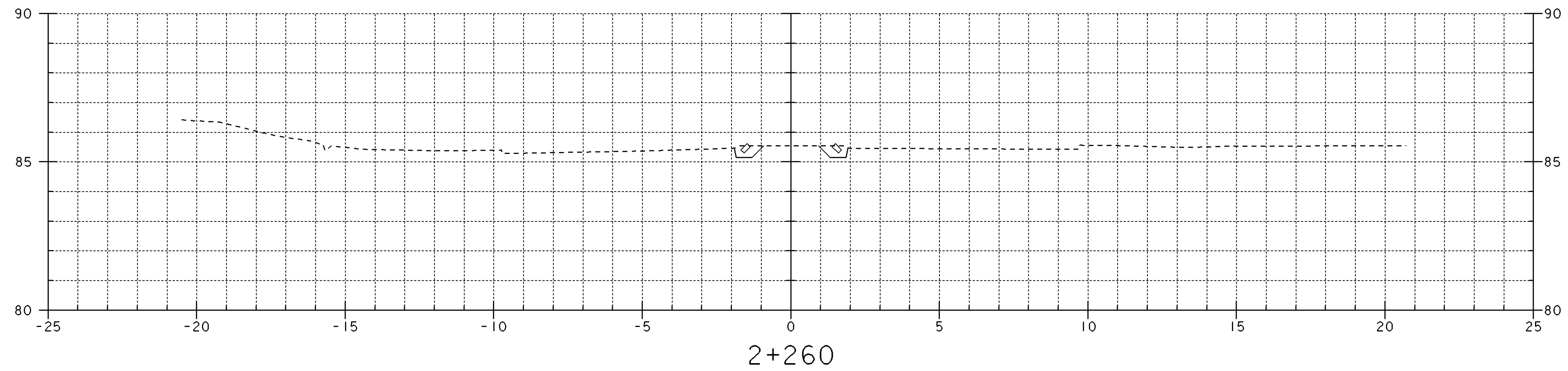
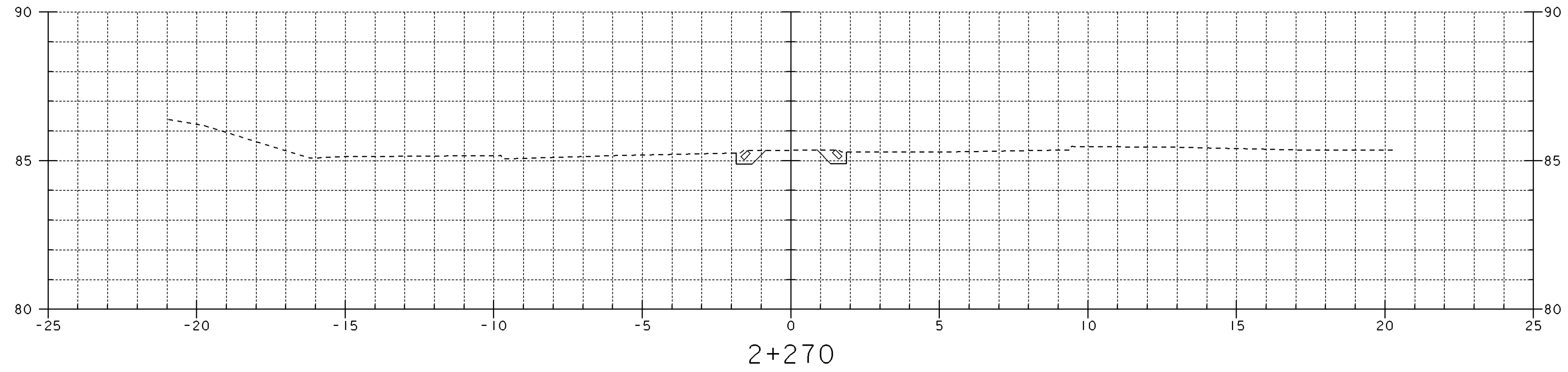
PROJECT:	BRATTLEBORO	PROJECT NO.:	NH 2000(18)
DESIGN FILE NAME:	Zsqdc\93d19\dd19\ss3.dwg	PLOT DATE:	8-APR-1999
IPARM FILE NAME:	dd19\131	SURVEYED BY:	_____
SURVEYED BY:	_____	SURVEY DATE:	_____
SQUAD LEADER:	MENARD	DRAWN BY:	SQUAD_C
_____	_____	SHEET:	64 OF 67



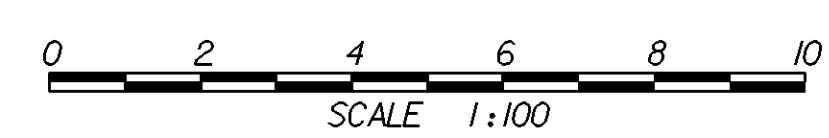
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HORIZONTAL	_____



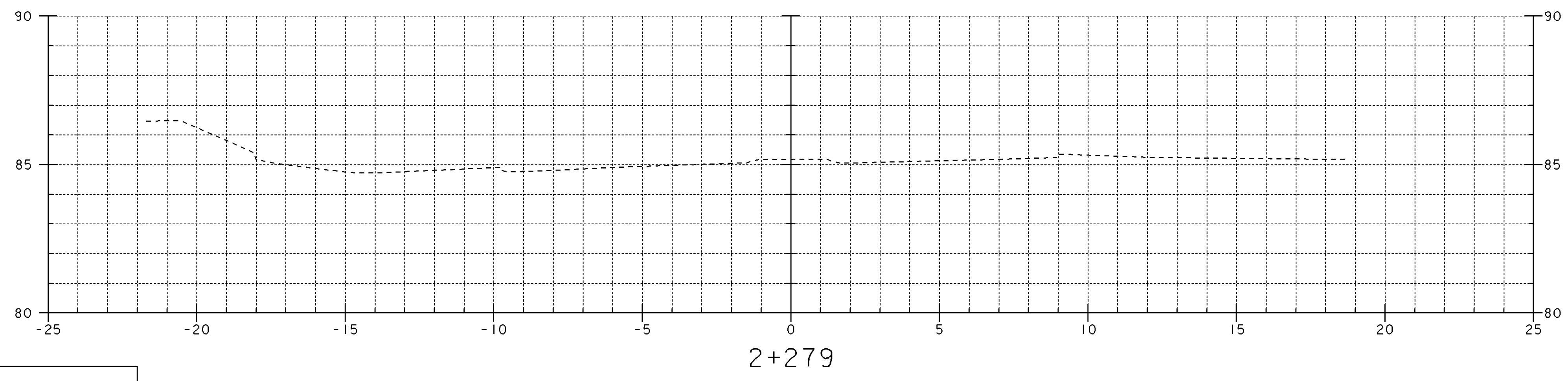
VT. RTE. 9	
PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
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IPARM FILE NAME: dd19\141	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 65 OF 67



DATUM	
VERTICAL	_____
HORIZONTAL	_____



VT. RTE. 9	
PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: Zsqdc\93d19\dd19\ss3.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\15.t	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 66 OF 67



DATUM  
 VERTICAL \_\_\_\_\_  
 HORIZONTAL \_\_\_\_\_



VT. RTE. 9	
PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: Zsdc\93d19\dd19\ss3.dwg	PLOT DATE: 8-APR-1999
IPARM FILE NAME: dd19\16.i	SURVEY DATE:
SURVEYED BY:	DRAWN BY: SQUAD_C
SQUAD LEADER: MENARD	SHEET: 67 OF 67