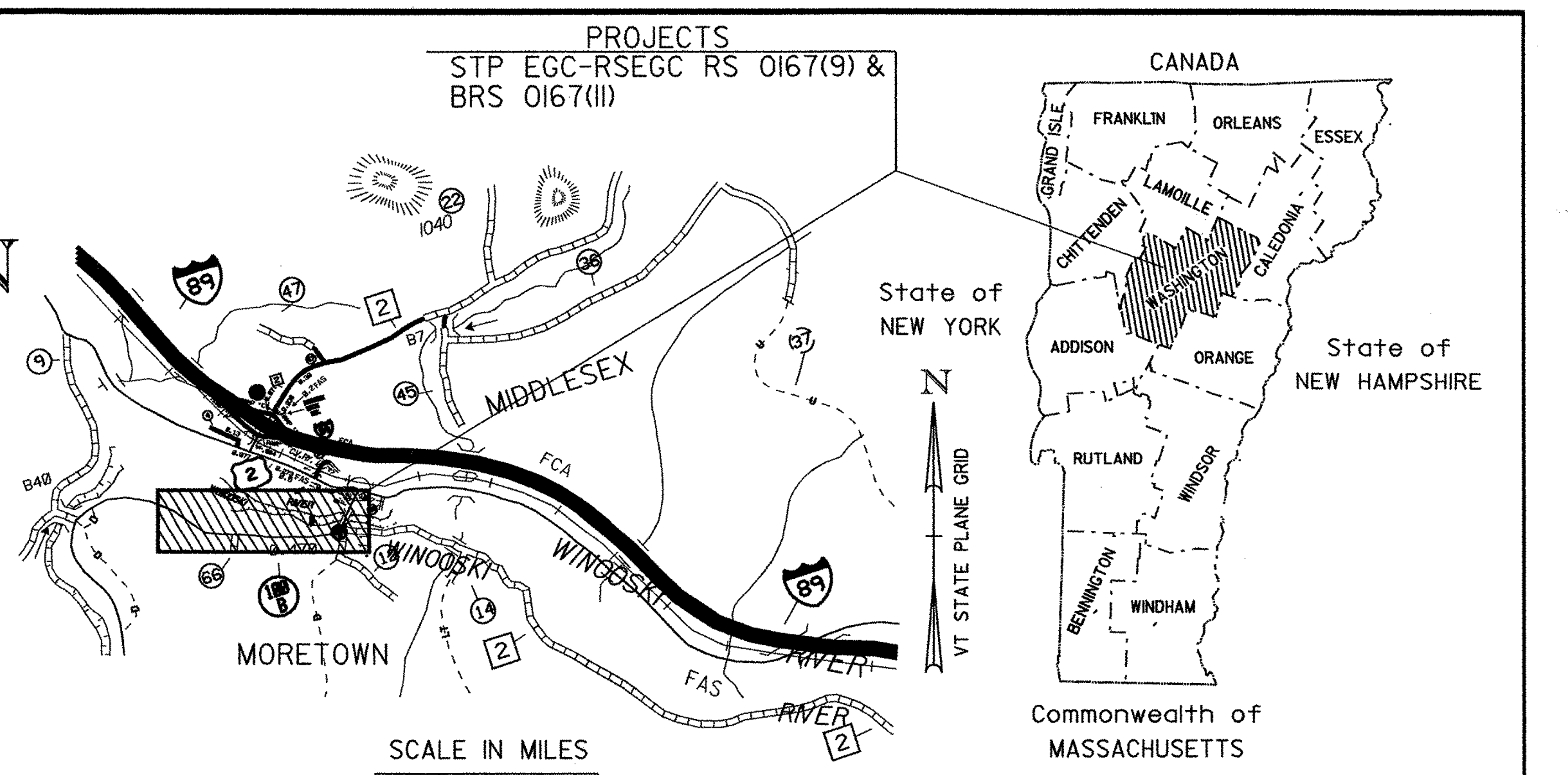
SEE SHEET #2

STATE OF VERMONT
AGENCY OF TRANSPORTATION



RECORD PLANS

CONTRACTOR: KINGSBURY CONSTRUCTION – WAITSFIELD, VT
RESIDENT ENGINEER: W. FLANDERS
CONSTRUCTION BEGAN: AUGUST 18, 2000
CONSTRUCTION COMPLETE: SEPTEMBER 11, 2002
RECORD PLANS BY: R. RICHERT

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

BY William R Flanders RESIDENT ENGINEER
DATE Feb 12, 2004

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

PROPOSED IMPROVEMENT
TOWNS OF MORETOWN & MIDDLESEX
COUNTY OF WASHINGTON
VT. ROUTE 100B
MAJOR COLLECTOR

PROJECT: MORETOWN STP EGC-RSEGC RS 0167(9)

BEGINNING AT A POINT 6.951 MILES EASTERLY OF THE INTERSECTION OF VT. 100 AND VT. 100 B IN MORETOWN AND EXTENDING EASTERLY 0.841 MILES.

LENGTH OF ROADWAY 4439.26 FEET = 0.841 MILES
LENGTH OF PROJECT 4439.26 FEET = 0.841 MILES

PROJECT CONSISTS OF RECONSTRUCTING VT 100B ON MINOR RELOCATION WITH NECESSARY APPROACHES AND CONNECTING WITH PROJECT MORETOWN-MIDDLESEX BRS 0167(11).

PROJECT: MORETOWN-MIDDLESEX BRS 0167(11)

BEGINNING AT A POINT 144 FEET WESTERLY OF THE MORETOWN-MIDDLESEX TOWN LINE AND EXTENDING EASTERLY 0.129 MILES TO THE INTERSECTION OF U.S. ROUTE 2.

LENGTH OF ROADWAY 414.17 FEET = 0.079 MILES
LENGTH OF BRIDGE 265.00 FEET = 0.050 MILES
LENGTH OF PROJECT 679.17 FEET = 0.129 MILES

PROJECT CONSISTS OF REPLACING THE EXISTING TEMPORARY BRIDGE #8 OVER THE WINOOSKI RIVER ON NEW ALIGNMENT WITH NECESSARY ROADWAY APPROACH CREATING A NEW INTERSECTION WITH U.S. ROUTE 2.

LENGTH OF CONTRACT 5118.43 FEET = 0.970 MILES

TRAFFIC DATA FOR VT. 100B :

2000	ADT	2900
	ADTT	150
	%T	3
	%D	54
2020	ADT	3900
	DHV	540
	ADTT	140
	%T	2
	%D	54

V=MORETOWN STP EGC-RSEGC RS 0167(9)
50 MPH (EXCEPT AS OTHERWISE NOTED*)

*35 MPH FROM STATION 205+00 TO THE END OF PROJECT MORETOWN-MIDDLESEX BRS 0167(11) AND 35 MPH ON U.S. RTE. 2 APPROACH

VT. 100 B : 18 KIP ESALS : 2000 - 2020 : 1,085,000
2000 - 2040 : 2,696,000

TRAFFIC DATA FOR U.S. 2 : MIDDLESEX S.H. TO VT. 100B:

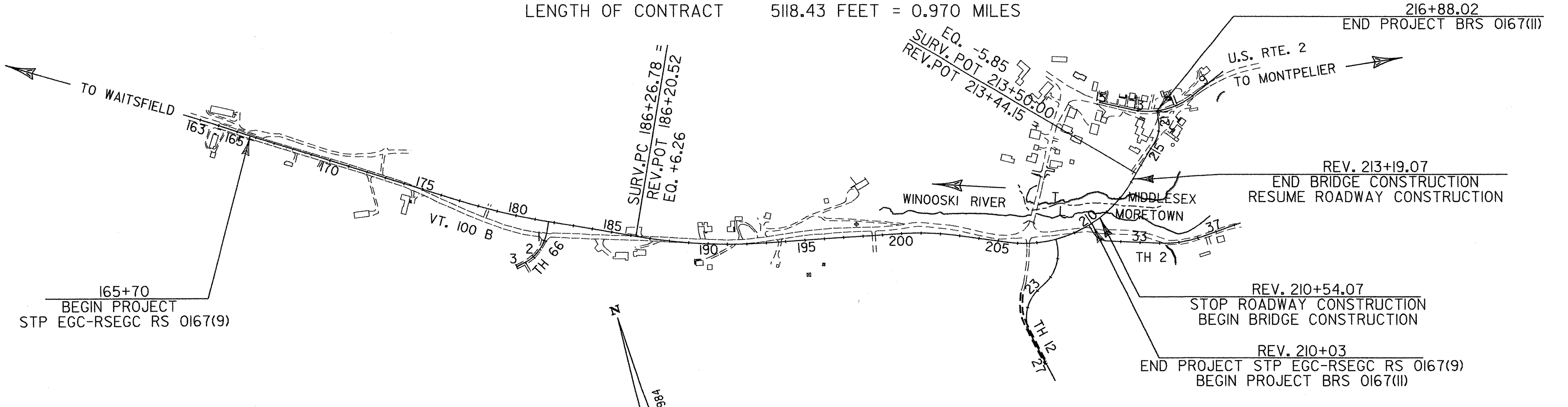
2000	ADT	3700
	ADTT	480
	%T	6
	%D	58
2020	ADT	5100
	DHV	690
	ADTT	500
	%T	4
	%D	58

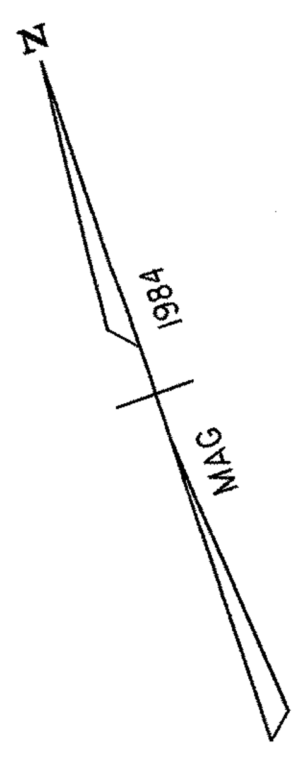
18 KIP ESALS : 2000 - 2020 : 2,491,000
2000 - 2040 : 6,088,000

TRAFFIC DATA FOR U.S. 2 : VT. 100B TO MONTPELIER T/L

2000	ADT	2600
	ADTT	300
	%T	5
	%D	56
2020	ADT	3500
	DHV	490
	ADTT	300
	%T	4
	%D	56

18 KIP ESALS : 2000 - 2020 : 1,411,000
2000 - 2040 : 3,387,000





CONVENTIONAL SYMBOLS

COUNTY LINE	COUNTY LINE
TOWN LINE	TOWN LINE
LIMITS OF ACCESS	—o—o—o—
POINT OF ACCESS	X
FENCE LINE	—X—X—X—X—
STONE WALL	oooooooooooo
TRAVELED WAY	- - - - - -
GUARD RAIL	o o o o o o
RAILROAD	▥
SURVEY LINE	—+—+—
CULVERT	=========
POWER POLE	⊙
TELEPHONE POLE	⊙
TREES	❀ ✶
CONTROL OF ACCESS	—///—///—///—
PROPERTY LINE	— — — —
R.O.W. TAKING LINE	—o—o—o—
SLOPE RIGHTS	—o— SR —△— SR —o— SR
TOP OF CUT	—△—△—△—
TOE OF SLOPE	—o—o—o—

SURVEYED BY :
SURVEYED DATE :

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SCALE IN FEET
0 100 200 350 700

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROJECT DEVELOPMENT.

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

DE058TLE.1
09-MAY-2000 design/84e058/de058.dgn

DIRECTOR OF PROJECT DEVELOPMENT
APPROVED DATE 5/10/00
PROJECT MANAGER : G.H. DUBRAY
PROJECT NAME : MORETOWN-STP EGC-RSEGC RS 0167(9)
PROJECT NUMBER : MORETOWN-MIDDLESEX - BRS 0167(11)
SHEET 1 OF 243 SHEETS

INDEX OF SHEETS

A-61	SLOPES IN SOLID ROCK EXCAV. (UNDER 50MPH)	06-01-94
B-1	BANKING TABLES	06-01-94
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-94
B-11	UNDERDRAIN - ROCK SUBGRADE, SLOPE STABILIZ.	06-01-94
B-17	GUARD RAIL, BRIDGES, REST AREA, TURNOUTS	02-23-95
B-71	RESIDENTIAL AND COMMERCIAL DRIVES	03-10-95
C-1	CURBS, BITUMINOUS CONCRETE SIDEWALKS	01-03-00
	GRANITE SLOPE EDGING	
	VERTICAL GRANITE CURB	
	PRECAST REINFORCED CONCRETE CURB	
	CAST IN PLACE CONCRETE CURB	
	BITUMINOUS CONCRETE CURB	
	TREATED TIMBER CURB	
D-1	PRECAST RCP DROP INLET	06-01-94
	REINFORCED CONCRETE PIPE D.I. W/ CAST IRON GRATE	
	REINFORCED CONCRETE PIPE D.I. W/ CONCRETE COVER	
D-2	C.R.M. HEADWALLS, UNDERDRAIN	06-01-94
	C.R.M. HEADWALLS & RETAINING WALLS	
	RIPRAP LIGHT TYPE SLOPE HEADWALL	
	REINFORCED CONCRETE HEADWALL	
	UNDERDRAIN & CARRIER PIPE CONSTRUCTION DETAILS	
D-3	TREATED GUTTERS	06-01-94
D-4	FLUSHING BASINS, END SECTION, ELBOWS	06-01-94
	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	
D-6	REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES	06-01-94
D-8	REINFORCED CONCRETE DROP INLET	01-03-00
	WITH PRECAST COVER & GRATE (BOTTOM SECTION)	
	SEE SHEETS D-9,10,11 FOR TOP SECTION	
D-10	REINFORCED CONCRETE DROP INLET TOPS	06-01-94
	BITUMINOUS CONCRETE CURB & GRANITE SLOPE EDGING	
D-11	GRATES & COVERS (TYPE A)	06-01-94
D-15	PRECAST REINF. CONC. MH-GRATES (BICYCLE SAFE)	06-01-94
	CAST IRON GRATE WITH FRAME, TYPE D	
	CAST IRON GRATE WITH FRAME, TYPE E	
D-16	PRECAST CURB DI, GRATE, RCP END SECTION, ETC.	06-01-94
	CAST IRON GRATE, TYPE B	
	CAST IRON GRATE, TYPE C	
	UNDERDRAIN RISER	
	REINFORCED CONCRETE PIPE END SECTION	
	ENERGY DISSIPATOR FOR CULVERT	
D-20	HIGHWAY CROSSING FOR UNDERGROUND UTILITIES	03-10-95
D-22	SANITARY SEWER SYSTEMS	03-10-95
E-100	CONSTRUCTION APPROACH SIGNS	01-06-97
E-101	CONSTRUCTION SIGN DETAILS	03-10-97
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-102A	CONSTRUCTION SIGN DETAILS	08-08-95
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	08-08-95
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	08-08-95
E-107A	BREAKAWAY BARRICADE DETAILS	08-08-95
E-109	TRAFFIC CONTROL DEVICES FOR TEMPORARY TERMINATION OF FREEWAY FACILITIES	08-08-95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-95
E-123	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	08-08-95
E-124	TOWN LINE SIGNS	08-08-95
E-125	TRAVEL INFORMATION SIGNS	08-08-95
E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	08-08-95
E-128A	VILLAGE SIGNS A - M	08-08-95
E-131	GUIDE SIGN DETAILS	08-08-95
E-132	GENERAL MOTORIST SERVICE SIGN DETAILS	08-18-95
E-133	SERVICE SIGN DETAILS	08-08-95
E-134	BRIDGE NUMBER PLAQUE	08-08-95
E-135	INTERSTATE ROUTE MARKER SIGN DETAILS	08-18-95
E-136A	U.S. ROUTE MARKER SIGN DETAILS	08-08-95
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-95
E-136C	STATE NUMBERED TOWN HIGHWAY SIGN DETAILS	08-08-95
E-138	MILEMARKER DETAILS STATE & TOWN HIGHWAYS	08-08-95
E-140	REGULATORY SIGN DETAILS	08-30-96
E-141	REGULATORY SIGN DETAILS	09-20-95
E-142	REGULATORY SIGN DETAILS	09-20-95
E-143	REGULATORY SIGN DETAILS	09-20-95
E-144	REGULATORY SIGN DETAILS	03-29-99
E-145A	REGULATORY SIGN DETAILS	12-23-94
E-145B	REGULATORY SIGN DETAILS	12-23-94
E-146	REGULATORY SIGN DETAILS	09-20-95
E-150	WARNING SIGN DETAILS	01-15-97
E-151	WARNING SIGN DETAILS	08-08-95
E-152	WARNING SIGN DETAILS	08-08-95
E-153	WARNING SIGN DETAILS	01-15-97
E-154	WARNING SIGN DETAILS	08-08-95
E-155	WARNING SIGN DETAILS	08-08-95
E-160	FLANGED CHANNEL STEEL SIGN POST	05-20-99
E-162	TUBULAR ALUMINUM SIGN POST	05-20-99
E-173	PULL BOXES AND JUNCTION BOXES	08-09-95
E-180A	STREET LIGHTING DETAILS	08-09-95
E-180B	STREET LIGHTING DETAILS	08-09-95
E-181	TYPICAL BRIDGE MOUNTING DETAILS FOR STREET LIGHT POLE	08-09-95
E-191	PAVEMENT MARKING DETAILS	02-01-99
E-192	PAVEMENT MARKING DETAILS	12-28-98
E-193	PAVEMENT MARKING DETAILS	08-18-95
E-197	DELINEATOR PLACEMENT TYPICAL	08-18-95
E-198	DELINEATORS AND MILEPOSTS	04-14-97
E-199	DELINEATOR AND MILEPOST MOUNTING ON BRIDGE RAIL	08-18-95
F-1	WOVEN WIRE FENCE	06-01-94
	WITH WOOD POSTS	
	WITH STEEL POSTS	
	WOOD BRACE FOR WOVEN WIRE FENCE	
	STEEL BRACE FOR WOVEN WIRE FENCE	
	DRIVE GATE FOR WOVEN WIRE FENCE	
	WALK GATE FOR WOVEN WIRE FENCE	
F-2	CHAIN LINK FENCE, TYPE I	06-01-94
	DRIVE GATE FOR CHAIN LINK FENCE, TYPE I	
	WALK GATE FOR CHAIN LINK FENCE, TYPE I	
F-4	CHAIN LINK FENCE, TYPE II	06-01-94
	DRIVE GATE FOR CHAIN LINK FENCE, TYPE II	
	WALK GATE FOR CHAIN LINK FENCE, TYPE II	
G-1	STEEL BEAM GUARDRAIL (50MPH & OVER)	01-03-00
	HEAVY DUTY STEEL BEAM GUARDRAIL	
	TWISTED END TERMINAL	
	ANCHOR FOR STEEL BEAM RAIL	
G-1D	STEEL BEAM GUARDRAIL (40MPH & LESS)	01-03-00
	HEAVY DUTY STEEL BEAM GUARDRAIL	
	STEEL BEAM MEDIAN BARRIER	
	ANCHOR FOR STEEL BEAM RAIL	
G-4	MARKERS - GUIDE POSTS - PLANK GUARD RAIL	06-01-94
	PLANK RAIL	
	GUIDE POSTS	
	WOOD MARKER POSTS	
	STEEL MARKER POSTS	
G-17A	MODIFIED ECCENTRIC LOADER TERMINAL (MELT)	01-18-96
G-17B	MODIFIED ECCENTRIC LOADER TERMINAL (MELT)	06-30-95
G-18	PRECAST CONCRETE TEMPORARY TRAFFIC BARRIER	06-01-94
J-1	PROJECT AND BOUNDARY MARKERS	06-01-94
J-3	MAILBOX SUPPORT DETAIL (SINGLE AND MULTIPLE SUPPORT)	08-07-95
L-1	SETTLEMENT PLATFORM, TYPE I AND TYPE II	03-09-95
L-2	GEOTECHNICAL INSTRUMENTATION	07-24-95
L-3	PIEZOMETERS TYPE III (AIR ACTUATED)	03-09-95
T-1	TEMPORARY EROSION CONTROL DETAILS	06-01-94
T-2	TEMPORARY EROSION CONTROL DETAILS	06-01-94

DATUM
VERTICAL ____________
HORIZONTAL ____________

SURVEYED BY NYC DATE ______
DRAWN BY SQUADB DATE 2/93
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78E132/DE132.DGN
IPARM FILE DE132IND DATE PLOTTED 31-MAY-2000
PROJ. NAME MORETOWN & MORETOWN-MIDDLESEX
PROJ. NO. RS 0167(9) & BRS 0167(11)
SHEET 2 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(11)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(11)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
						0.83	0.83									0.17	0.17	1	LS	CLEARING AND GRUBBING (INCL. INDIVIDUAL TREES AND STUMPS)	201.10	
						.17													AC	CLEARING AND GRUBBING	201.11	
						74.211 ~~81 000~~	~~81 000~~									3600	3600	84600	CY	COMMON EXCAVATION	203.15	
						8904 ~~7600~~	7600									450	450	8050	CY	SOLID ROCK EXCAVATION	203.16	115
						38													CY	SOLID ROCK EXCAVATION (MODIFIED)		
						32 ~~75~~	75							150			150	225	CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27	3
						128 ~~500~~	500									50	50	550	CY	EXCAVATION OF SURFACES & PAVEMENT	203.28	34
						954													CY	MUCK EXCAVATION	203.20	
						0 ~~2500~~	2500									50	50	2550	CY	EARTH BORROW	203.30	224
						7643 ~~15700~~	15700									2500	2500	18200	CY	SAND BORROW	203.31	
						914													CY	SAND BORROW (MODIFICATION # 1)	203.31	
						1783 ~~605~~	605									1350	1350	1955	CY	GRANULAR BORROW	203.32	58
														40			40	40	CY	GRANULAR BORROW, (UNFACTORED)	203.32	
						38.893 ~~38000~~	38000									10250	10250	48250	SY	FINE GRADING-SUBGRADE	203.40	
					0 ~~85~~	483 ~~4650~~	4735						22		20	1300	1342	6077	CY	TRENCH EXCAVATION OF EARTH	204.20	
						1154 ~~750~~	750									40	40	790	CY	TRENCH EXCAVATION OF ROCK	204.21	3
						1446 ~~1400~~	1400							200			200	1600	CY	STRUCTURE EXCAVATION	204.25	14
						215 ~~260~~	260							240	10		250	510	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	41
														1			1	1	LS	COFFERDAM (STA. 210+56)	204.40	
														1			1	1	LS	COFFERDAM (STA. 211+96)	204.40	
						985													LF	DRILLING & BLASTING OF SOLID ROCK (MOD)	205.10	
						4087.7 ~~3233~~	3233									372	372	3605	SY	DRILLING AND BLASTING OF SOLID ROCK SUBGRADE	205.20	3
						139.10													SY	DRILL & BLAST OF SOLID ROCK SUB (MOD)	205.20	
						593.2 ~~350~~	350									575	575	925	SY	COLD PLANING-BIT. PAVEMENT	210.10	33
						2839 ~~2800~~	2800									200	200	3000	SY	SCARIFYING PAVEMENT	212.20	275
						411.1 ~~600~~	600									20	20	620	CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26	6
						23.9 ~~10~~	10											10	CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)(MODIFIED) (CRUSHED SLATE)	301.26	1
						20923.6 ~~201 00~~	201 00									3300	3300	23400	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	
						103.22 ~~42~~	42									12	12	54	CWT	EMULSIFIED ASPHALT	404.65	
						7435.75 ~~6400~~	6400									1750	1750	8150	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	
						406.16													TON	(PG 58-34) (NON PARTICIPATION)	406.25	
						-6241.98 ~~0.5~~	0.5									0.5	0.5	1	LU	PRICE ADJUST. ASPHALT CEMENT(NABI)	406.50	
														362			362	362	CY	CONCRETE, CLASS A	501.22	
						25.93 ~~80~~	80							826	3	40	869	949	CY	CONCRETE, CLASS B	501.25	0.8
														44			44	44	CY	SILICA FUME CONCRETE	501.60	
														1			1	1	LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10	
														500			500	500	LF	STEEL PILING (HP 12 X 53)	505.15	
														543830			543830	543830	LB	STRUCTURAL STEEL (PLATE GIRDER)	506.55	
						2219 ~~6850~~	6850							102700	280	3150	106130	112980	LB	REINFORCING STEEL	507.15	27
														635	75		710	710	LF	DRILLING AND GROUTING DOWELS	507.16	
														116200			116200	116200	LB	EPOXY COATED REINFORCING STEEL	507.17	
														1			1	1	LS	SHEAR CONNECTORS (2472-7/8'' X 7'' LONG)	508.15	
														1			1	1	LS	STRUCTURAL PAINTING, SHOP APPLIED (57 TONS)	513.25	
														1			1	1	LS	SURFACE PREPARATION	513.40	
														41			41	41	GAL	WATER REPELLANT	514.10	

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
52789	CY	MAINLINE
1285	CY	DRIVES
4311	CY	TH 2
11173	CY	TH 12
98	CY	TH 66
166	CY	REMOVAL OF PAVEMENT 0'-2' BELOW SUBGRADE
6437	CY	UNDERCUT FOR EST. SAND BORROW (ML & TH'S)
248	CY	CUT TO FILL TRANSITIONS
1076	CY	FROM DRAINAGE SHEET : SPECIAL DITCHES
2630	CY	BRIDGE 300 SERIES (RETAINING WALL)
787	CY	ROUNDING
81000	CY	TOTAL
		SOLID ROCK EXCAVATION
4303	CY	MAINLINE
2830	CY	TH 2
158	CY	TH 12
280	CY	OVERBREAKAGE (MAINLINE & TH 2)
29	CY	ROUNDING
7600	CY	TOTAL
		SAND BORROW
8953	CY	MAINLINE (DESIGNED)
4732	CY	MAINLINE (ESTIMATED)
975	CY	TH 2 (ESTIMATED)
630	CY	TH 12 (ESTIMATED)
100	CY	TH 66 (ESTIMATED)
176	CY	3'' LAYER OVER SHATTERED ROCK
134	CY	ROUNDING
15700	CY	TOTAL
		FINE GRADING - SUBGRADE
28743	SY	MAINLINE
2816	SY	DRIVES AND PARKING AREAS
3306	SY	TH 2
2055	SY	TH 12
945	SY	TH 66
135	SY	ROUNDING
38000	SY	TOTAL
		TRENCH EXCAVATION OF EARTH
71	CY	TEST TRENCHES
2586	CY	DRAINAGE SHEET
1221	CY	DESIGNED UNDERDRAIN AND CARRIER PIPE
750	CY	ESTIMATED UNDERDRAIN AND CARRIER PIPE
22	CY	ROUNDING
4650	CY	TOTAL

MORETOWN - MIDDLESEX BRS 0167(11)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
530	CY	MAINLINE
2004	CY	U.S. ROUTE 2 APPROACH
107	CY	DRIVES
892	CY	UNDERCUT FOR EST. SAND BORROW (U.S. 2 & ML)
67	CY	ROUNDING
3600	CY	TOTAL
		SAND BORROW
742	CY	MAINLINE (DESIGNED)
281	CY	MAINLINE (ESTIMATED)
718	CY	U.S. 2 APPROACH (DESIGNED)
711	CY	U.S. 2 APPROACH (ESTIMATED)
48	CY	ROUNDING
2500	CY	TOTAL
		FINE GRADING - SUBGRADE
5203	SY	MAINLINE
4278	SY	U.S. ROUTE 2 APPROACH
737	SY	DRIVES
32	SY	ROUNDING
10250	SY	TOTAL
		TRENCH EXCAVATION OF EARTH
1024	CY	DRAINAGE SHEET
100	CY	DESIGNED UNDERDRAIN
130	CY	ESTIMATED UNDERDRAIN & CARRIER PIPE
46	CY	ROUNDING
1300	CY	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
50	CY	EXTRA DEPTH AT BRIDGE APPROACH
1100	CY	MAINLINE
1289	CY	U.S. ROUTE 2 APPROACH
229	CY	DRIVES
627	CY	AREAS BEHIND THE CURB (U.S. 2 AND ML)
5	CY	ROUNDING
3300	CY	TOTAL

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78EI32/DEI32.DGN
IPARM FILE DEI32QI.I DATE PLOTTED 31-MAY-2000
MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(11)
SHEET 3 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(11)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(11)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
														80			80	80	LF	BRIDGE EXPANSION JOINT	516.10	
														1140			1140	1140	SY	SHEET MEMBRANE WATERPROOFING	519.20	
															161		161	161	SY	SHEET MEMBRANE WATERPROOFING(MOD.)	519.20	
														599			599	599	LF	BRIDGE RAILING-ALUMINUM	525.23	
																				PEDESTRIAN (MOD)		
															1		1	1	EA	PARTIAL REMOVAL OF STRUCTURE	529.20	
														15			15	15	EA	BEARING DEVICE ASSEMBLY	531.10	
																				(POT BEARING)		
																			LS	EXTRA WORK ORDER # 10	900.10	
			0	~~30405~~			30405											30405	LF	PERMANENT SOIL NAILS, FULLY	535.15	
				29254.5																ENCAPSULATED		
				9			9											9	EA	VERIFICATION NAILS	535.20	
			9034	~~9300~~			9300											9300	CY	STRUCTURE EXCAVATION - SOIL NAIL	535.25	
																				WALL		
				16122			16122											16122	SF	PERMANENT SHOTCRETE FACING	535.35	
			14693	~~13545~~			13545											13545	SF	TIMBER FACING	535.40	
																			LS	EXTRA WORK ORDER # 17	900.17	
						60 ~~58~~	58									35 ON	ESTIMATE	58	LF	18'' CSP .064 (2-2/3X1/2)	601.0015	
																32	32	32	LF	30'' RCP CL III (MOD)	601.0835	
						8	8											8	LF	18'' CPEP(SL) (RDWY ITEM SHT 138)	601.2615	
																				** BEGIN OPTION ITEMS **		
						48 ~~40~~	40											40	LF	12'' CSP .064 (2-2/3X1/2)	601.0005	
						40	40											40	LF	12'' CAAP .060 (2-2/3X1/2)	601.0205	
						735 ~~494~~	494											494	LF	15'' CSP .064 (2-2/3X1/2)	601.0010	
						494	494											494	LF	15'' RCP CL III	601.0810	
						494	494											494	LF	15'' CPEP (SL)	601.2610	
						0 ~~212~~	212											212	LF	15'' PCCSP .064 (2-2/3X1/2)	601.0410	
						212	212											212	LF	15'' CAAP .060 (2-2/3X1/2)	601.0210	
						212	212											212	LF	15'' CPEP	601.0910	
																642	642	642	LF	18'' RCP CLASS III	601.0815	
																642	642	642	LF	18'' CPEP (SL)	601.2615	
						180 ~~146~~	146									58	58	204	LF	18'' CSP .064 (2-2/3X1/2)	601.0015	
						146	146									58	58	204	LF	18'' CPEP (SL)	601.2615	
						512	512									218	218	730	LF	18'' CAAP .060 (2-2/3X1/2)	601.0215	
						557 ~~512~~	512									218	218	730	LF	18'' PCCSP .064 (2-2/3X1/2)	601.0415	
						512	512									218	218	730	LF	18'' CPEP (SL)	601.2615	
						60 ~~56~~	56											56	LF	18'' CSP .064 (2-2/3X1/2)	601.0015	
						56	56											56	LF	18'' CAAP .060 (2-2/3X1/2)	601.0215	
						410	410											410	LF	18'' CAAP .060 (2-2/3X1/2)	601.0215	
						367 ~~410~~	410											410	LF	18'' CSP .064 (2-2/3X1/2)	601.0015	
						410	410											410	LF	18'' CPEP	601.0915	
						48	48											48	LF	18'' RCP CL III	601.0815	
						55 ~~48~~	48											48	LF	18'' CSP .064 (2-2/3X1/2)	601.0015	
						48	48											48	LF	18'' CPEP	601.0915	
						350 ~~404~~	404											404	LF	18'' PCCSP .064 (2-2/3X1/2)	601.0415	
						404	404											404	LF	18'' CAAP .060 (2-2/3X1/2)	601.0215	
						404	404											404	LF	18'' CPEP	601.0915	
																304	304	304	LF	18'' CAAP .060 (2-2/3X1/2)	601.0215	
																304	304	304	LF	18'' PCCSP .064 (2-2/3X1/2)	601.0415	
																304	304	304	LF	18'' RCP CLASS III	601.0815	
																304	304	304	LF	18'' CPEP (SL)	601.2615	
						144	144											144	LF	24'' CAAP .060 (2-2/3X1/2)	601.0225	
						13 ~~144~~	144											144	LF	24'' PCCSP .064 (2-2/3X1/2)	601.0425	
						144	144											144	LF	24'' CPEP	601.0920	
						316	316											316	LF	24'' CAAP .060 (2-2/3X1/2)	601.0225	
						307 ~~316~~	316											316	LF	24'' PCCSP .064 (2-2/3X1/2)	601.0425	
						316	316											316	LF	24'' CPEP (SL)	601.2620	

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		TRENCH EXCAVATION OF ROCK
289	CY	DRAINAGE SHEET
439	CY	DESIGNED UNDERDRAIN AND CARRIER PIPE
5	CY	EST. UNDERDRAIN & C.P.
17	CY	ROUNDING
750	CY	TOTAL
		SUBBASE OF CRUSHED GRAVEL (FINE GRADED)
212	CY	DRIVES
197	CY	TH 2
111	CY	TH 12
47	CY	TH 66
33	CY	ROUNDING
600	CY	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
185	CY	MAINLINE APPROACH
16383	CY	MAINLINE
48	CY	GUARD RAIL FLARES
1245	CY	TH 2
744	CY	TH 12
343	CY	TH 66
1069	CY	DRIVES
83	CY	ROUNDING
20100	CY	TOTAL
		BITUMINOUS CONCRETE PAVEMENT
2134	TON	MAINLINE (TYPE I BASE)
2193	TON	MAINLINE(TYPE II BINDER)
1642	TON	MAINLINE(TYPE III WEARING)
233	TON	MAINLINE APPROACH (INCLUDES BASE COURSE)
39	TON	TH APPROACHES
127	TON	DRIVES
32	TON	ROUNDING
6400	TON	TOTAL
		DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
2261	SY	MAINLINE
667	SY	TH 2
302	SY	TH 12
3	SY	ROUNDING
3233	SY	TOTAL
		STONE FILL, TYPE I
147	CY	DRAINAGE SHEET
45	CY	TEMP. EROSION CONTROL
250	CY	BR. 300 SERIES (RDWY ITEM SHT # 138)
18	CY	ROUNDING
460	CY	TOTAL
		STONE FILL, TYPE II
259	CY	DRAINAGE SHEET
260	CY	SLOPE STABILIZATION
6	CY	ROUNDING
525	CY	TOTAL

MORETOWN - MIDDLESEX BRS 0167(11)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		BITUMINOUS CONCRETE PAVEMENT
321	TON	M/L (TYPE I BASE)
223	TON	M/L (TYPE II BINDER)
168	TON	M/L (TYPE III WEARING)
297	TON	U. S. 2(TYPE I BASE)
198	TON	U. S. 2(TYPE II BINDER)
200	TON	U. S. 2(TYPE III WEARING)
34	TON	DRIVES
155	TON	ROADWAY QUANTITY (FROM BRIDGE SHEET)
105	TON	CHURCH ST. (FORMER VT. 100 B) (TYPE III WEARING
49	TON	ROUNDING
1750	TON	TOTAL

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78E132/DE132.DGN
IPARM FILE DE13202.I
DATE PLOTTED 31-MAY-2000
MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(11)
SHEET 4 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(II)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(II)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
						64	64											64	LF	30'' CSP .079 (2-2/3X1/2)	601.0036	
						64	64											64	LF	30'' CPEP (SL)	601.2625	
						154	154											154	LF	36'' CAAP .075 (2-2/3X1/2)	601.0246	
						261 ~~154~~	154											154	LF	36'' PCCSP .079 (2-2/3X1/2)	601.0446	
						154	154											154	LF	36'' CPEP (SL)	601.2630	
						258	258											258	LF	60'' CAAP .135 (2-2/3X1/2)	601.0268	
						260 ~~258~~	258											258	LF	60'' CSP .138 (2-2/3X1/2)	601.0068	
						2	2											2	EA	12'' CSP ELBOW .064 (2-2/3X1/2)	601.5005	
						2	2											2	EA	12'' CAAP ELBOW .060 (2-2/3X1/2)	601.5205	
						2	2											2	EA	18'' CSP ELBOW .064 (2-2/3X1/2)	601.5015	
						2	2											2	EA	18'' CAAP ELBOW .060 (2-2/3X1/2)	601.5215	
																			EA	CSPES .079 (2 2/3X 1/2)	601.6046	
						2 ~~1~~	1											1	EA	15'' CSPES .064 (2-2/3X1/2)	601.6010	
						1	1											1	EA	15'' RCPES CLASS III	601.6810	
						1	1											1	EA	15'' CPEPES	601.7010	
						5 ~~4~~	4											4	EA	18'' CSPES .064 (2-2/3X1/2)	601.6015	
						4	4											4	EA	18'' CAAPES .060 (2-2/3X1/2)	601.6215	
						4	4											4	EA	18'' CPEPES	601.7015	
						1	1											1	EA	18'' CSPES .064 (2-2/3X1/2)	601.6015	
						1	1											1	EA	18'' CPEPES	601.7015	
						1	1											1	EA	24'' CSPES .064 (2-2/3X1/2)	601.6025	
						1	1											1	EA	24'' CAAPES .060 (2-2/3X1/2)	601.6225	
						1	1											1	EA	24'' CPEPES	601.7020	
						1	1											1	EA	30'' CSPES .079 (2-2/3X1/2)	601.6036	
						1	1											1	EA	30'' CPEPES	601.7025	
																				END OPTION ITEMS		
						0 ~~100~~	100									50	50	150	LF	RELAYING PIPE CULVERTS	601.99	EST.
						11.05 ~~10~~	10											10	CY	CEMENT RUBBLE MASONRY	602.15	1.9
						19 ~~1~~	1											1	EA	PRCCDI W/ CAST IRON GRATE	604.30	
						0 ~~15~~	15											15	EA	CAST IRON GRATE W/ FRAME, TYPE A	604.45	
						0 ~~4~~	4									1	1	5	EA	CAST IRON GRATE W/ FRAME, TYPE B	604.46	
																15	15	15	EA	CAST IRON GRATE W/ FRAME, TYPE D	604.51	
						0 ~~4~~	4											4	EA	CAST IRON GRATE W/ FRAME, TYPE E	604.52	
																			EA	PRECAST RE-INF CONC CATCH BASIN GRATE	604.20	
						4063 ~~4774~~	4774									584	584	5358	LF	6'' UNDERDRAIN	605.10	
						514 ~~518~~	518											518	LF	6'' UNDERDRAIN (MOD.) (ROADWAY ITEM SHEET # 138)	605.10	
						295 ~~306~~	306									50	50	356	LF	6'' UNDERDRAIN CARRIER PIPE	605.20	
						20 ~~24~~	24									7	7	31	EA	UNDERDRAIN FLUSHING BASINS	605.95	
						38 ~~100~~	100									50	50	150	HR	ROADWAY PATROL MAINTENANCE	607.10	EST
						2 ~~0.5~~	0.5									0.5	0.5	1	HR	BULLDOZER RENTAL, TYPE I (NOT A BID ITEM)	608.10	
						0 ~~0.5~~	0.5									0.5	0.5	1	HR	BULLDOZER RENTAL, TYPE II (NOT A BID ITEM)	608.11	
						3 ~~0.5~~	0.5									0.5	0.5	1	HR	POWER GRADER RENTAL (NOT A BID ITEM)	608.15	
						34 ~~0.5~~	0.5									0.5	0.5	1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NOT A BID ITEM)	608.25	
						24 ~~0.5~~	0.5									0.5	0.5	1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE II (NOT A BID ITEM)	608.26	
						3 ~~0.5~~	0.5									0.5	0.5	1	HR	POWER BROOM RENTAL(NOT A BID ITEM)	608.30	
						0 ~~0.5~~	0.5									0.5	0.5	1	HR	POWER BROOM RENTAL TYPE II (NOT A BID ITEM)	608.31	

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		TEMPORARY EROSION CONTROL (INCLUDED WITH EROSION CONTROL)
85	CY	TRENCH EXCAVATION OF EARTH
45	CY	STONE FILL, TYPE I
1925	SY	GEOTEXTILE FOR SILT FENCE
55	LB	SEED - WINTER RYE
1	TON	HAY MULCH
170	SY	EROSION MATTING
1700	EA	HAY BALES FOR EROSION CONTROL
		TOPSOIL
396	CY	MAINLINE
8	CY	MAINLINE APPROACH
77	CY	EXCAVATION OF SURFACES AND PAVEMENTS
170	CY	DRIVE @ 180+00 LT.
24	CY	ROUNDING
675	CY	TOTAL
		GEOTEXTILE UNDER STONE FILL
190	SY	INLET OF 60'' CULVERT
749	SY	TH # 12.
170	SY	BR. 300 SERIES (RDWY ITEM FROM SHEET @ 138)
41	SY	ROUNDING
1150	SY	TOTAL
		EROSION MATTING
567	SY	FROM DRAINAGE SHEET
170	SY	FOR TEMP. EROS. CONTR.
1181	SY	MAINLINE
82	SY	ROUNDING
2000	SY	TOTAL
		GEOTEXTILE FOR UNDERDRAIN TRENCH LINING
6311.4	SY	MAINLINE
788.7	SY	TH # 2
500.0	SY	TH # 12
870.0	SY	BR. 300 SERIES (ROADWAY ITEM FROM SHEET # 138)
29.9	SY	ROUNDING
8500	SY	TOTAL

MORETOWN - MIDDLESEX BRS 0167(II)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		TEMPORARY EROSION CONTROL (INCLUDED WITH EROSION CONTROL)
22	CY	TRENCH EXCAVATION OF EARTH
11	CY	STONE FILL, TYPE I
350	SY	GEOTEXTILE FOR SILT FENCE
15	LB	SEED - WINTER RYE
0.5	TON	HAY MULCH
50	SY	EROSION MATTING
100	EA	HAY BALES FOR EROSION CONTROL
		TOPSOIL
48	CY	MAINLINE
30	CY	U.S. ROUTE 2 APPROACH
6	CY	GRASS AREAS
10	CY	RAISED ISLAND FROM M/L 216+15 LT TO US 2 12+73 LT.
6	CY	ROUNDING
100	CY	TOTAL

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78EI32/DEI32.DGN
IPARM FILE DEI32Q3.I DATE PLOTTED 31-MAY-2000

MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(II)

SHEET 5 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(II)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(II)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
						7.5 ~~0.5~~	0.5									0.5	0.5	1	HR	TRUCK RENTAL (NOT A BID ITEM)	608.37	
						3 ~~0.5~~	0.5									0.5	0.5	1	HR	LOADER RENTAL, TYPE I (NOT A BID ITEM)	608.40	
						5 ~~0.5~~	0.5									0.5	0.5	1	HR	LOADER RENTAL, TYPE II (NOT A BID ITEM)	608.41	
						1480 ~~215~~	215									55	55	270	MGAL	DUST CONTROL W/ WATER	609.10	EST.
						3.125 ~~3~~	3									1	1	4	TON	DUST AND ICE CONTROL W/ CALCIUM CHLORIDE	609.15	EST.
														16			16	16	EA	ROCK BOLT ANCHOR (ULT. STRENGTH = 25K MIN.)	612.30	
					260.3 ~~45~~	685 ~~415~~	460						11				11	471	CY	STONE FILL, TYPE I	613.10	
						1123.8 ~~525~~	525									5	5	530	CY	STONE FILL, TYPE II	613.11	1
						371.9-C.O								300			300	300	CY	STONE FILL, TYPE IV	613.13	
																210	210	210	LF	GRANITE SLOPE EDGING	616.20	10
																1100	1100	1100	LF	VERTICAL GRANITE CURB	616.21	31
						1112 ~~1150~~	1150											1150	LF	TREATED TIMBER CURB	616.35	20
																3	3	3	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	EST
						5 ~~7~~	7									1	1	8	EA	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	
						2 ~~3~~	3									1	1	4	EA	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	
						0 ~~55~~	55									15	15	70	EA	BOUNDARY MARKERS	619.10	EST.
						3 ~~78~~	78									3	3	81	EA	YIELDING MARKER POSTS	619.17	3
						0 ~~5~~	5									2	2	7	EA	REMOVING AND RESETTING PROPERTY MARKERS	619.20	EST.
															90		90	90	LF	CHAIN-LINK FENCE, 8 FT. (MOD.)	620.13	
															24		24	24	LF	GATE FOR CHAIN-LINK FENCE, 8 FT. (MOD.)	620.17	
															16		16	16	EA	BRACING ASSEMBLY FOR CHAIN LINK FENCE, 8 FT. (MOD)	620.22	
						3	3											3	EA	DRIVE GATE FOR WOVEN WIRE FENCE	620.30	
						6 ~~3~~	3											3	EA	STEEL BRACE FOR WOVEN WIRE FENCE	620.40	
						0 ~~1150~~	1150									110	110	1260	LF	REMOVAL OF EXISTING FENCE	620.55	18
						3183 ~~3175~~	3175											3175	LF	STEEL BEAM GUARD RAIL (W/ STEEL POSTS)	621.20	13
						9	9											9	EA	MODIFIED ECCENTRIC LOADER TERMINAL W/ WOOD POSTS (MELT)	621.52	
						50	50									50	50	100	LF	ALUMINUM APPROACH RAIL (MOD # 1)	621.74	
						0 ~~75~~	75									200	200	275	LF	ALUMINUM APPROACH RAIL (MOD # 2)	621.74	
						84.3 1925 ~~2000~~	2000									100	100	2100	LF	REMOVAL & DISP. OF GUARD RAIL	621.80	34
																			LF	ALUMINUM APPROACH RAIL (MOD #3)	621.74	
				120 ~~140~~			140											140	LF	INCLINOMETER	623.30	
				116 ~~140~~			140											140	LF	GROUND WATER OBSERVATION WELL	623.50	
						418 ~~388~~	388											388	LF	SLEEVES FOR UTILITIES (6'' PVC)(SCHEDULE 40)	625.10	
																31	31	31	LF	PVC SEWER PIPE (3'')	628.35	

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

MORETOWN - MIDDLESEX BRS 0167(II)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78EI32/DEI32.DGN
IPARM FILE DEI32Q4.I DATE PLOTTED 31-MAY-2000

MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(II)

SHEET 6 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(11)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(11)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
						140 ~~161~~	161											161	LF	SEAMLESS COPPER WATER TUBE(1'')	629.23	
						95 ~~62~~	62											62	LF	SEAMLESS COPPER WATER TUBE (1-1/4'')	629.23	
						0 ~~2~~	2								4		4	6	EA	EXTENSION SERVICE BOX & CURB STOP	629.25	
																			EA	EXT SERVICE BOX & CURB STOP (MOD)	629.25	
						230 ~~100~~	100											100	LF	PLASTIC WATER PIPE-FLEXIBLE 1/2''	629.32	
															20		20	20	LF	PIPE INSULATION	629.44	
															1		1	1	EA	RELOCATE WATER LINE (MOD)	629.80	
						0 ~~545~~	545									155	155	700	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
						6228.5 ~~5975~~	5975									525	525	6500	HR	FLAGGERS	630.15	EST
			0.5				0.5					0.5					0.5	1	LS	FIELD OFFICE - ENGINEERS	631.10	
			0.2				0.2					0.8					0.8	1	LS	TESTING EQUIPMENT - CONCRETE(MOD)	631.16	
			0.5				0.5					0.5					0.5	1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	
												1					1	1	LS	TESTING EQUIPMENT - PROTECTIVE COATINGS	631.18	
			.695 ~~0.5~~				0.5					0.5					0.5	1	LU	FIELD OFFICE - TELEPHONE (NABI)	631.25	
1659 ~~1040~~							1040	1040									1040	2080	HR	EMPLOYEE TRAINEESHIP	634.10	
						0.6	0.6									0.4	0.4	1	LS	MOBILIZATION	635.10	
										1							1	1	LS	UTILITY SYSTEM	636.15	
						0.5	0.5									0.5	0.5	1	LS	TRAFFIC CONTROL	641.10	
						2	2									3	3	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	
						0 ~~9050~~	9050									2900	2900	11950	LF	4'' WHITE LINE	646.20	45
						0 ~~9050~~	9050									2925	2925	11975	LF	4'' YELLOW LINE	646.21	37
						0 ~~35~~	35									50	50	85	LF	24'' STOP BAR	646.26	7
																210	210	210	LF	PAINTED CURB	646.27	10
																4	4	4	EA	LETTER OR SYMBOL	646.30	
						9506 ~~9450~~	9450									2925	2925	12375	LF	DURABLE 4'' WHITE LINE	646.40	46
						9890 ~~9050~~	9050									3400	3400	12450	LF	DURABLE 4'' YELLOW LINE	646.41	46
						53.2 ~~35~~	35									80	80	115	LF	DURABLE 24'' STOP BAR	646.46	9
																8	8	8	EA	DURABLE LETTER OR SYMBOL	646.50	
						10.638 ~~18100~~	18100									7250	7250	25350	LF	TEMPORARY 4'' WHITE LINE	646.60	85
						23.760 ~~18100~~	18100									7400	7400	25500	LF	TEMPORARY 4'' YELLOW LINE	646.61	78
																100	100	100	LF	TEMPORARY 24'' STOP BAR	646.66	4
																8	8	8	EA	TEMPORARY LETTERS OR SYMBOLS	646.70	
						116	116									29	29	145	EA	LINE STRIPING TARGETS	646.73	
						2833 ~~1150~~	1150							555			555	1705	SY	GEOTEXTILE UNDER STONE FILL	649.31	3
						8015 ~~8500~~	8500									610	610	9110	SY	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.41	7
					1166.8 ~~1925~~		1925						350				350	2275	SY	GEOTEXTILE FOR SILT FENCE	649.51	62
					1069 ~~900~~		900						50				50	950	LB	SEED	651.15	31

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

MORETOWN - MIDDLESEX BRS 0167(11)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78E132/DE132.DGN
IPARM FILE DE13205.1 DATE PLOTTED 31-MAY-2000
MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(11)
SHEET 7 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(II)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(II)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
					835 ~~55~~		55						15				15	70	LB	SEED-WINTER RYE	651.17	
					7300 ~~5975~~		5975						350				350	6325	LB	FERTILIZER	651.18	10
					27.16 ~~24~~		24						2				2	26	TON	AGRICULTURAL LIMESTONE	651.20	
					47.52 ~~25~~		25						3				3	28	TON	HAY MULCH	651.25	0.5
					1002 ~~1700~~		1700						100				100	1800	EA	HAY BALES FOR EROSION CONTROL	651.26	EST.
						773.6 ~~675~~	675									100	100	775	CY	TOPSOIL	651.35	
						6060 ~~2825~~	2825							555		25	580	3405	SY	GRUBBING MATERIAL	651.40	49
					3532 ~~2000~~		2000						50				50	2050	SY	EROSION MATTING	654.10	
	30						30											30	EA	EVERGREEN TREES (PICEA GLAUCA) (WHITE SPRUCE) (6' - 8' HT., BAGGED+BURLAPED)	656.20	
									22								22	22	EA	DECIDUOUS TREES (ACER FREEMANII "JEFFERSRED") (AUTUMN BLAZE MAPLE) 2 (~~3"~~ - ~~3~~ 2 1/2" CAL)(BAGGED + BURLAPPED) (CLEAR STEM TO 6') CHANGE ORDER	656.30	
									2								2	2	EA	DECIDUOUS TREES (ACER TRUNCATUM, SUBSP. MONO) (PAINTED MAPLE) (3" - 3 1/2" CAL)(BAGGED + BURLAPPED) (CLEAR STEM TO 6')	656.30	
									3								3	3	EA	DECIDUOUS TREES (BETULA PAPYRIFERA, CLUMP) (WHITE BIRCH CLUMP - 3 STEM MIN.) (10' - 12' HT., BAGGED+BURLAPED)	656.30	
	96						96											96	EA	DECIDUOUS SHRUBS (CORNUS SERICEA) (REDSTEM DOGWOOD) (12" - 18" HT., BAGGED + BURLAPPED OR CONTAINER)	656.35	
	43 ~~33~~						33											33	EA	DECIDUOUS SHRUBS (CORNUS AMOMUM) (GRAYSTEM DOGWOOD) (12" - 18" HT., BAGGED + BURLAPPED OR CONTAINER)	656.35	
	51						51											51	EA	DECIDUOUS SHRUBS (VIBURNUM DENTATUM) (ARROWWOOD VIBURNUM) (12" - 18" HT., BAGGED + BURLAPPED OR CONTAINER)	656.35	
	74						74											74	EA	DECIDUOUS SHRUBS (LONICERA XYLOSTEUM "CLAVEYI") (CLAVEYS'S DWARF HONEYSUCKLE) (12" - 18" HT., BAGGED + BURLAPPED OR CONTAINER)	656.35	
	41 ~~45~~						45		14								14	59	EA	DECIDUOUS SHRUBS (AMELANCHIER CANADENSIS) (SHADBLOW) (6' - 8' HT., BAGGED+BURLAPPED (MULTI-STEM)	656.35	
	118						118											118	EA	DECIDUOUS SHRUBS (RHUS TYPHINA) (STAGHORN SUMAC) (12" - 18" HT., BAGGED+BURLAPPED OR CONTAINER)	656.35	

MORETOWN STP EGC-RSEGC RS 0167(9)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

MORETOWN - MIDDLESEX BRS 0167(II)
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78EI32/DEI32.DGN
IPARM FILE DEI32Q6.I DATE PLOTTED 31-MAY-2000

MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(II)

SHEET 8 OF 243 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

MORETOWN STP EGC-RSEGC RS 0167(9)								MORETOWN - MIDDLESEX BRS 0167(II)										MORETOWN STP EGC-RSEGC RS 0167(9) AND MORETOWN - MIDDLESEX BRS 0167(II)				
TRAINING	LANDSCAPING	R.O.W.	FULL E+C ITEMS	BRIDGE 300 SERIES	EROSION CONTROL	ROADWAY	TOTALS	TRAINING	LANDSCAPING	R.O.W.	UTILIT.	FULL E+C ITEMS	EROSION CONTROL	BRIDGE 100 SERIES	BRIDGE 200 SERIES	ROADWAY	TOTALS	GRAND TOTALS	UNIT	ITEMS	ITEM NO.	ROUNDING
	15						15		14								14	29	EA	DECIDUOUS SHRUBS (RHUS AROMATICA "GRO-LOW") (GRO-LOW SUMAC) (12"-18" HT., BAGGED+BURLAPPED OR CONTAINER)	656.35	
	13						13											13	EA	GROUND COVER AND VINES (CELASTRUS SCANDENS) (AMERICAN BITTERSWEET) (2 YR. FIELD, FIELD POT)	656.40	
	10 ~~13~~						13											13	EA	GROUND COVER AND VINES (PARTHENOSIS QUINQUEFOLIA) (WOODBINE/VIRGINIA CREEPER) (2 YR. FIELD, FIELD POT)	656.40	
									800								800	800	EA	GROUND COVER AND VINES (HEMMEROCALLIS - STELLA DEORO) (STELLA D'ORO DAYLILLY) (ROOT 3-5 EYE DIVISION, FIELD GROWN)	656.40	
	350 ~~200~~						200		100								300	300	EA	GROUND COVER AND VINES (HEMMEROCALLIS FLAVA) (COMMON DAYLILY-NATIVE LEMON LILY) (ROOT 3-5 EYE DIVISION, FIELD GROWN)	656.40	
	350 ~~500~~						500		200								200	700	EA	GROUND COVER AND VINES (HEMMEROCALLIS FULVA) (COMMON DAYLILY-NATIVE ORANGE LILY) (ROOT 3-5 EYE DIVISION, FIELD GROWN)	656.40	
																				BEGIN OPTION ITEMS		
	10						10											10	EA	GROUND COVER AND VINES (VITUS CULTIVAR) (VALIENT GRAPEVINE) (2 YR. FIELD GROWN, 2 GAL. POT)	656.40	
	10						10											10	EA	GROUND COVER AND VINES VITUS AESTIVALIS-WILD GRAPE) (SUMMER GRAPE-NATIVE) (2 YR. FIELD GROWN, 2 GAL. POT)	656.40	
																				END OPTION ITEMS		
						455,49 110	110									265	265	375	SF	TRAFFIC SIGNS, TYPE A	675.20	4.52
						398 ~~306~~ 306	306 306									574	574	880	FT	FLANGED CHANNEL SIGN POSTS	675.301	1
						36 ~~49~~	49									62	62	111	EA	REMOVING SIGNS	675.50	
						20 ~~4~~	4											4	EA	ERECTING SALVAGED SIGNS	675.60	
																3	3	3	EA	DELINEATORS W/ STEEL POSTS	676.10	
															2		2	2	EA	OVERHEAD TRAFFIC SIGN SUPPORT, TRI-CHORD(MOD)	677.10	
						1													LS	EXTRA WORK ORDER # 7	900.07	
						1													LS	EXTRA WORK ORDER # 13	900.13	
						1													LS	EXTRA WORK ORDER # 14	900.14	
						1													LS	EXTRA WORK ORDER # 15	900.15	

MORETOWN STP EGC-RSEGC RS 0167(9) DETAILED SUMMARY OF QUANTITIES			MORETOWN - MIDDLESEX BRS 0167(II) DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS	QUANTITIES	UNIT	ITEMS

SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/78EI32/DEI32.DGN
IPARM FILE DEI32Q7.I DATE PLOTTED 31-MAY-2000

MORETOWN RS 0167(9) AND
MORETOWN-MIDDLESEX BRS 0167(II)

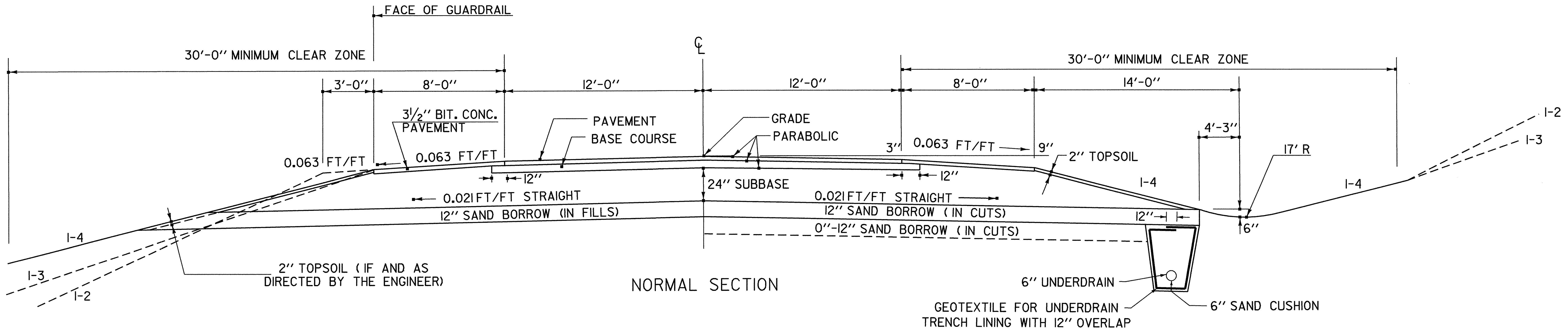
SHEET 9 OF 243 SHEETS

TYPICAL SECTIONS

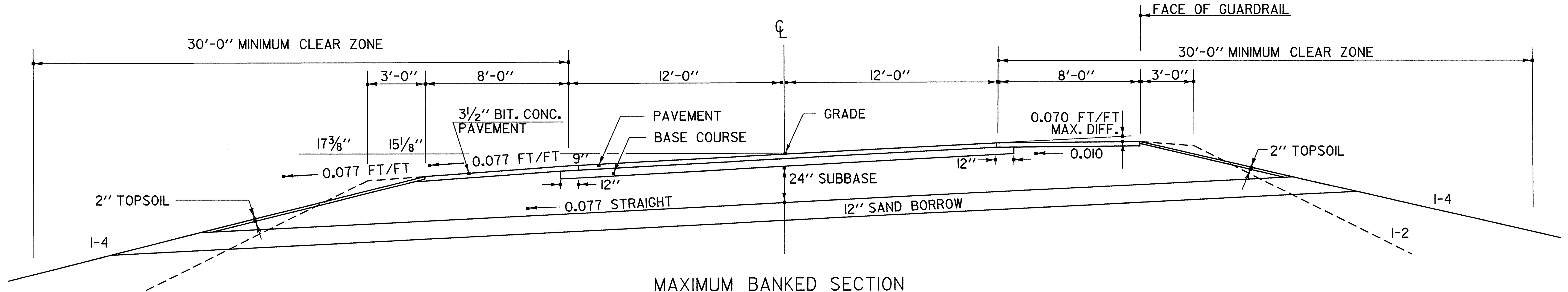
VT. ROUTE 100B

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	± 1/4″
SUBBASE	± 1″
SAND BORROW	± 1″

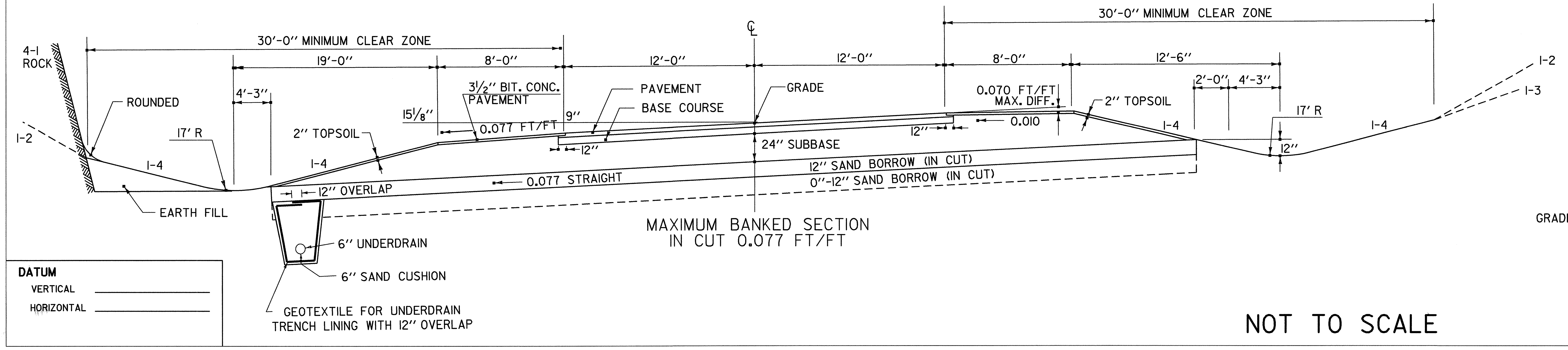
3½″ BITUMINOUS CONCRETE PAVEMENT (1½″ TYPE III OVER 2 ″ TYPE II) (ITEM 406.25)(PG 58-34)
3″ BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT (1 LIFT, TYPE I) (ITEM 406.25)(PG 58-34)
24″ SUBBASE OF DENSE GRADED CRUSHED STONE
12″ SAND BORROW
SHOULDERS : 3½″ BITUMINOUS CONCRETE PAVEMENT (ITEM 406.25)(PG 58-34)
0″-12″ SAND BORROW IN CUT (TO BE PLACED AS NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER)



NORMAL SECTION



MAXIMUM BANKED SECTION
IN FILL 0.077 FT/FT



MAXIMUM BANKED SECTION
IN CUT 0.077 FT/FT

DATUM
VERTICAL ______________
HORIZONTAL ______________

NOT TO SCALE

SEEDING FORMULA
RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

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 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

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

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

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

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

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

PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUCTION WITH UNDERDRAIN - SEE STANDARD SHEET D - 2.

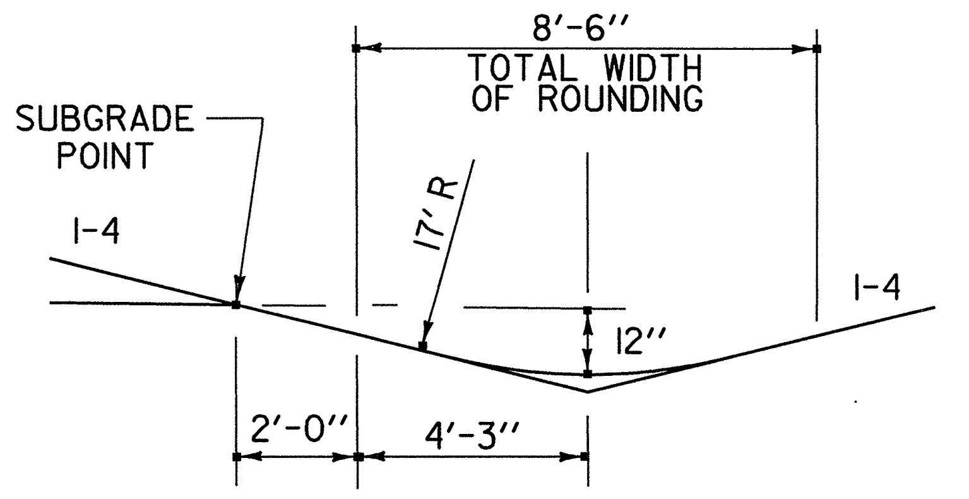
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY TO ALL COLD PLANED SURFACES AND BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

SEEDING FORMULA
URBAN AREAS

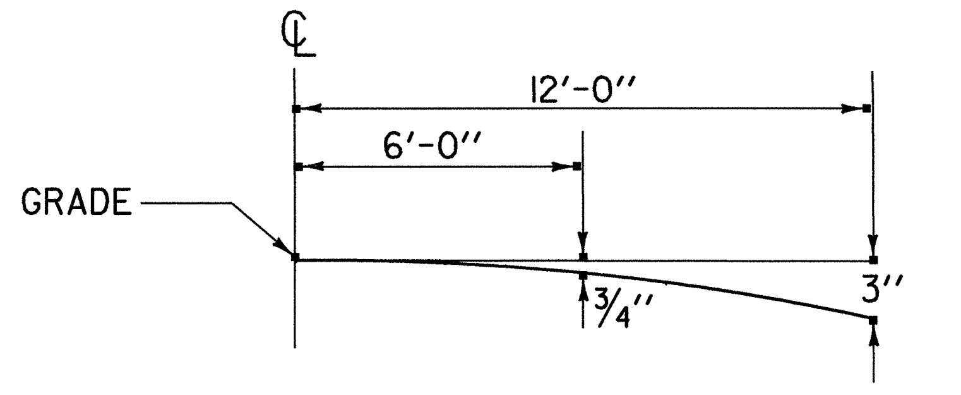
% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREEPING RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

GENERAL NOTES

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



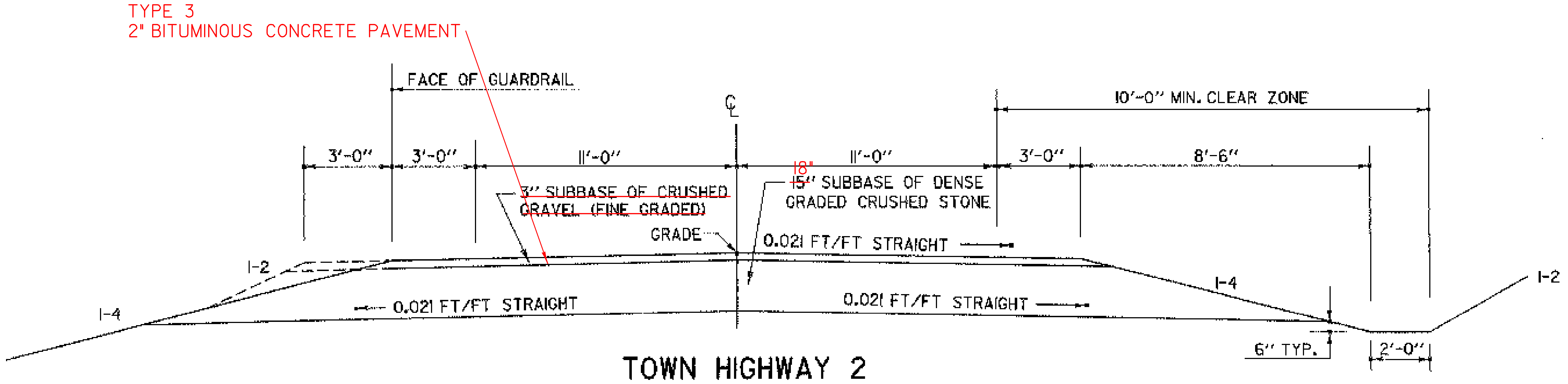
HIGH BANK TYPICAL DITCH DETAIL



PARABOLIC DETAIL
NOT TO SCALE

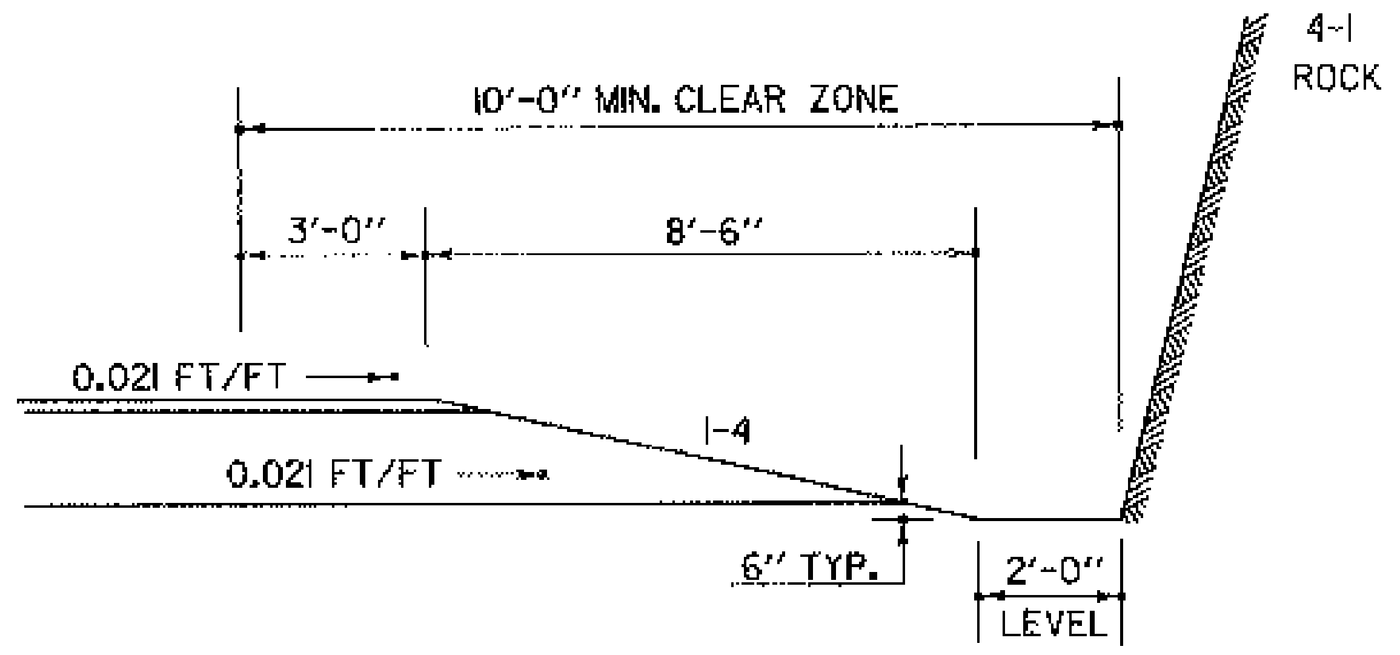
SURVEYED BY NYE DATE 3/85
DRAWN BY SQUADB DATE 11/93 RE
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058FRM.DGN
IPARM FILE DE132TY1 DATE PLOTTED 09-MAY-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 10 OF 243 SHEETS

TOWN HIGHWAY TYPICAL SECTIONS

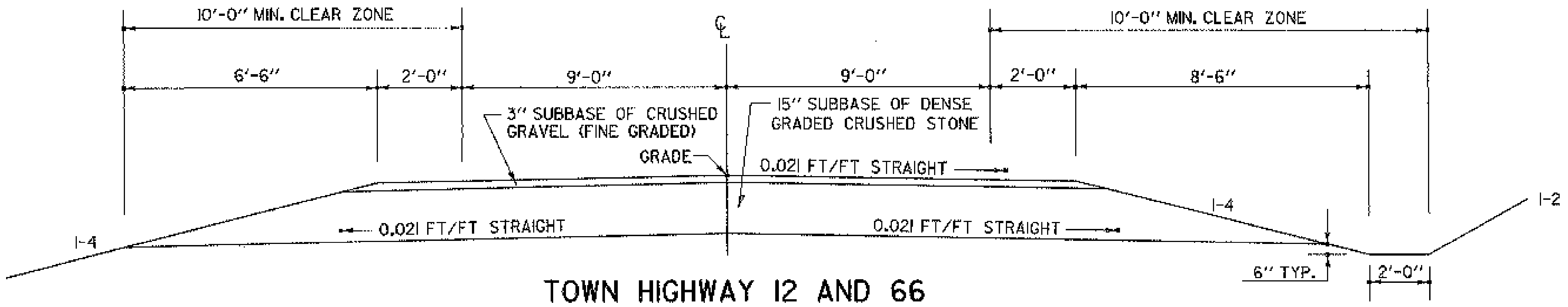


TOWN HIGHWAY 2

NORMAL SECTION

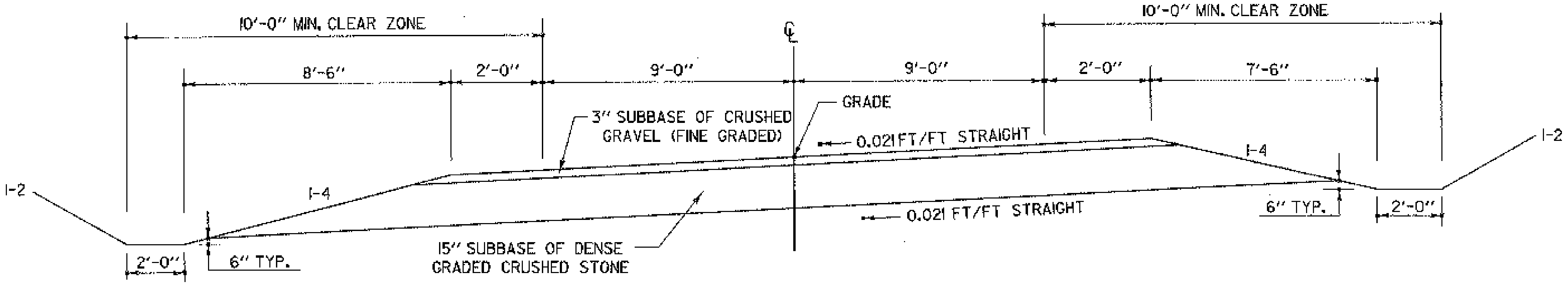


NORMAL SECTION IN ROCK CUT
(TOWN HIGHWAY 2)



TOWN HIGHWAY 12 AND 66

NORMAL SECTION



MAXIMUM BANKED SECTION 0.021 FT/FT

FOR GENERAL NOTES:
SEE SHEET 9

NOT TO SCALE

DATUM
VERTICAL ______
HORIZONTAL ______

SURVEYED BY NYE DATE 3/85
DRAWN BY SQUADB DATE 11/93 RE
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058FRM.DGN
IPARM FILE DE132TY2 DATE PLOTTED 04-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 11 OF 243 SHEETS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS					CPEP	PIPE ELBOW	E S	CB	PRCCDI	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP	▬											EARTH	ROCK											
							IN	IN	FT	IN	FT	TH	TH	CL	TH	SL	▬	NO-DEG	EA				CY	LBS	TYPE		CY	CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
163+00		CL																																						EXISTING 18'' RCP - RETAIN
165+07	165+25	RT																																						EXISTING 15'' CGMP - RETAIN
165+35.5		CL	82° 35' LT																																					EXISTING 18'' RCP - RETAIN
165+45	166+94	LT																												194					132					CONSTRUCT SPECIAL DITCH (PAY AS COMMON EXCAVATION)
166+94	167+61	LT		MES						30	64				.079	X			1									109												
167+00	168+45	RT		MES						18	146				.064	X			1																					DRIVE CULVERT - PIPE LAID IN DITCH
167+61	172+50	LT																												675					435					CONSTRUCT SPECIAL DITCH (PAY AS COMMON EXCAVATION)
168+17	168+37	RT																																						EXISTING 15'' CGMP - REMOVE WITH COMMON EXCAVATION
169+50	169+75	LT/RT		MES						18	76	.064	.060			X			1									15										1	1	
172+00	172+50	LT/RT		RCDI						24	92	.064	.060			X						3.5	1.9	158	1-A			49								2	I	1	1	
172+50		CL																										8												REMOVE EXISTING 18'' ACCGMP
175+75	178+11.5	RT																										21								43	I			SPECIAL DITCH W/ STONE FILL, TYPE I
178+11.5		RT																										17												EXISTING 15'' CMP - REMOVE
178+11.5	178+50	RT																										7								7	I			SPECIAL DITCH W/ STONE FILL, TYPE I
178+12		CL		MES						24	136	.064	.060			X			1									28								7	II	1	1	TYPE II STONE PAD @ OUTLET
178+14		LT		PRCCDI						12	40		.060		.064			2			1				1-E			12										1		1-10° ELBOW AND 1-15° ELBOW
180+29		RT	88° 07' LT																									18												REMOVE EXISTING 12'' ACCGMP
180+50		CL		RCDI						18	88	.064	.060				X					6.0	3.0	270	1-E											3	I		1	STONE FILL, TYPE I AT OUTLET
182+00		LT		RCDI						18	56		.060		.064			2				8.0	3.9	347	1-E			33								4	II	1		1-25° ELBOW AND 1-15° ELBOW (TYPE II STONE PAD @ OUTLET)
182+00	182+53	LT/RT		MES						18	84	.064	.060			X			1									5											1	PIPE IN FILL AND INLET DITCH
	REV.																																							
183+85	186+75	RT		RCDI						15	291			III	.064	X						7.0	3.5	308	1-A			155											2	DRIVE CULVERT
183+95		RT																										9												REMOVE EXISTING 10'' CMP
184+02	184+63	RT		RCDI						15	85			III	.064	X						3.0	1.7	150	1-A			36											2	DRIVE CULVERT (PARKING AREA)
184+26	184+68	RT																										16												REMOVE EXISTING DRIVE CULVERT (SIZE UNKNOWN)
184+32	184+60	RT																										10												REMOVE EXISTING 12'' CMP
REV	REV																																							
189+75	190+70	RT																																						EXISTING PIPE - RETAIN
REV	REV																																							
190+70	191+70	RT								0.5	100																	39												FLEXIBLE PLASTIC WATER PIPE. INTERCEPT EXISTING WATER PIPE @ REV. 190+70 RT
REV	REV																																							
190+70	191+70	RT								6	100																													6'' SLEEVE FOR 1/2'' PLASTIC WATER PIPE
REV	REV																																							
190+74	191+00	RT		MES						15	26			III	.064	X			1																				2	PIPE LAID IN DITCH
REV	REV																																							
191+03	191+94	RT																										36												REMOVE EXISTING CULVERT (SIZE UNKNOWN)
REV	REV																																							
191+24	191+41	LT/RT								6	65																	36												6'' SLEEVE FOR FUTURE USE
REV	REV																																							
191+44	192+36	LT		RCDI						15	92			III	.064	X						4.0	2.1	193	1-A			45												
SUBTOTALS										0.5	100	(PLASTIC WATER PIPE)																												
DRAINAGE SHEET #1										6	165	(SLEEVE)		(PVC SCHEDULE 40)																										
										12	40		.060		.064			2-12''			1		16.1	1426	4-A			704		869					567	55	I	5	11	
										15	494			III	.064	X			1						3-E											11	II	1	6	
										18	146				.064	X			1																					
										18	88	.064	.060				X																							
										18	160	.064	.060			X			2																					
TOTALS										18	56		.060		.064			2-18''																						
										24	228	.064	.060			X			1																					
										30	64				.079	X			1																					

STEEL BEAM GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
				MELT	
174+75	179+50	475		2	
	REV				
180+46	186+65.5	625		2	
REV	REV				
191+62.5	192+87.5		125	2	
REV	REV				
193+68.5	209+81	1612.5		1	
TH2					
33+62.5	36+87.5	325		2	
TOTALS		3037.5	125	9	
		3162.5			
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH		GRAN BKF	FB		MKR PST
						E	R				
165+35	169+50	U	RT	6	420	79			1		2
172+50	175+00	U	RT	6	250	78			1		1
REV	REV										
186+44	192+36	U	LT	6	592	268			2		2
REV	REV										
186+94	191+67	U	RT	6	474	139			2		2
REV	REV										
191+87	193+94	U	RT	6	207	83			1		1
REV	REV										
193+94	196+40	U	LT	6	246	109			1		1
REV	REV										
199+19	201+69	U	RT	6	250	27	137		1		1
REV	REV										
201+79	203+99	U	RT	6	222		136		1		1
REV	REV										
201+80	202+00	C	LT	6	34	7			1		2
REV	REV										
202+00	204+00	U	LT	6	200	103			1		1
DESIGNED		U			2861	893	273		12		14
SUB-TOTALS		C			34						
TOTALS											

CONTINUED ON FOLLOWING SHEET

PROJECT NAME MORETOWN
PROJECT NUMBER RS EGC RS0167(9)

10-FEB-2000 DE132DR1
SHEET 12 OF 243 SHEETS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS					CPEP	PIPE ELBOW	E S	CB	PRCCDI	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS				REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP	▬	ELBOW										EARTH	ROCK													
							IN	IN	FT	IN	FT	TH	TH	CL	TH	SL	▬	NO-DEG	EA				CY	LBS	TYPE		CY	CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT			
REV 192+36	REV 193+94	LT		RCDI						18	180	.064	.060				X					4.0	2.1	193	1-A			175	10									2				
REV 191+85	REV 193+96	RT/LT		HDWL						60	258		.135		.138								26	2100							72	1110	219	576		72	II					INLET DITCH W/ STONE FILL, TYPE II
REV 193+09		LT	52° 33′ LT																													89										REMOVE EXISTING 48′′ RCP AND HEADWALL; BACKFILL TRENCH
REV 193+11	REV 193+26	RT/LT								6	62																	27														6′′ SLEEVE FOR 1.25′′ COPPER WATER TUBE. INTERCEPT EXIST. W/MATERAL REMOVED FROM TRENCH FOR 60" PIPE.
REV 193+11	REV 193+26	RT/LT								1.25	62																															EXTENSION SERVICE BOX AND CURB STOP @ REV.193+11 RT.
REV 193+24		LT																														187										REMOVE 56′ OF THE EXISTING 7′ X 5′ CONC. BOX; BACKFILL TRENCH W/MATERIAL REMOVED FROM TRENCH FOR 60" PIPE.
REV 193+44	REV 193+84	CL																																								EXISTING 15′′ CGMP (REMOVE W/ COMMON EXCAVATION)
REV 193+54		LT																																								REMOVE EXISTING 48′′ BOILER PIPE W/ NEW 60′′ PIPE
REV 193+94	REV 194+00	LT		RCDI						18	62		.060		.064		X					4.0	2.1	193	1-A			31										1				
REV 193+94		CL		RCDI						18	78		.060		.064		X					8.0	3.9	347	1-A			119											1			
REV 193+94	REV 196+65	LT		RCDI						18	270		.060		.064		X					5.0	2.6	231	1-A			230														
REV 196+65		CL		RCDI						18	60	.064	.060			X						5.5	2.8	239	1-B			37										1	1			
REV 198+62	REV 199+19	RT		RCDI						18	56	.064	.060			X						5.0	2.6	231	1-B			29											1			
REV 198+77		CL																										7														REMOVE EXISTING 15′′ CGMP
REV 199+19	REV 199+44	RT/LT		RCDI						24	88	.064	.060			X						4.5	3.0	237	2-B			44						5				1	1			USE 4′ X 6′ DI @ INLET
REV 201+79		CL		RCDI						18	78	.064	.060			X						4.0	2.1	193	1-A			39	14					2		4	II	1	1			OUTLET W/STONE FILL TYPE II
REV 201+80		LT																																								EXISTING 12′′ CGMP (REMOVE W/ COMMON EXCAVATION)
REV 205+46		LT																										54														EXISTING 15′′ CGMP - REMOVE
REV 206+16	REV 206+33	RT/LT		HDWL						36	154	.079	.075			X											4.9	178	151					15		21	II	1	1			STRAIGHT HEADWALL @ INLET /STONE FILL TYPE II @ INLET.
REV 206+33		LT																										209														EXIST. 30′′ RCP-REMOVE W/ NEW 36′′ X 154′ PIPE
REV 206+42	REV 206+84	RT/LT								6	161																	47	25													6′′ SLEEVE FOR 1′′ COPPER WATER TUBE
REV 206+42	REV 206+84	RT/LT								1	161																															EXTENSION SERVICE BOX AND CURB STOP
REV 206+80	REV 207+35	LT								18	58				.064													16														
SUBTOTALS										1.25	62	(COPPER TUBE)																														
DRAINAGE SHEET #2										1	161	(COPPER TUBE)																														
										6	223	(SLEEVE) (PVC SCHEDULE 40)																														
										18	58				.064								47.2	3964	5-A		4.9	1242	200		72	1386	219	598				7	6			
										18	194	.064	.060			X									4-B											97	II	1	3			
										18	410		.060		.064		X																									
										18	180	.064	.060				X																									
										24	88	.064	.060			X																										
TOTALS										36	154	.079	.075			X																										
										60	258		.135		.138																											

STEEL BEAM GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
REMOVAL AND DISPOSAL OF GUARD RAIL					
REV 192+69	REV 193+20		51		
REV 193+70	REV 199+40	570			
REV 199+30	REV 200+10	80			
REV 200+25	REV 206+60	660			
REV 206+90	REV 207+10	44			
TH2 31+00	32+54	154			
TH2 33+00	37+07	407			
TOTAL		1915	51		
GRAND TOTAL		1966			
TREATED TIMBER CURB					
176+00	179+50	350			
180+46	185+50	504			
REV 207+30	REV 209+56	226			
REV 209+56	REV 210+06	50			
	TOTAL	1130			
TOTALS					

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH		GRAN BKF	FB		MKR PST
						E	R				
REV 204+05	REV 206+16	U	RT	6	212	74	52		1		2
REV 204+05	REV 205+05	U	LT	6	100	27			1		1
REV 205+05	REV 205+48	C	LT	6	54	17			1		2
TH2 30+50	33+75	U	RT	6	326	58	68		2		2
TH2 33+75		C	CL	6	56	6			1		2
TH2 32+00	33+50	U	LT	6	150	8	46		1		1
TH2 33+50		C	LT	6	12				1		2
REV. TH#12 20+34	22+75	U	LT	6	275	138			1		2
DESIGNED		U		6	1063	328	166		9		14
SUBTOTALS		C		6	122						
ESTIMATED		U		6	850	750	5		3		3
ESTIMATED		C		6	150						
GRAND TOTALS		U			4774	1971	444		24		31
		C			306						
TOTALS											

PROJECT NAME MORETOWN
PROJECT NUMBER RS EGC RS0167(9)

09-MAY-2000 DE132DR2
SHEET 13 OF 243 SHEETS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS					CPEP	PIPE ELBOW	ES	CB	PRCCDI	DEPTH DI	CONC CL B	REIN STEEL	DI GRATE	CHAN ELEV	CRM	TR EXCAV		COMM EXC	UNC CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS				REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP	▬											EARTH	ROCK													
							IN	IN	FT	IN	FT	TH	TH	CL	TH	SL	▬	NO-DEG	EA				CY	LBS	TYPE		CY	CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT			
REV 207+40		CL		MES						18	82	.064	.060			X			1									4								4	II	1	1			STONE FILL, TYPE II @ OUTLET
REV 207+50		LT																										51														EXISTING 12'' ACCGMP - REMOVE
REV 208+50		CL		MES						18	74	.064	.060				X		1																			1	1			PIPE IN FILL
REV 209+50	REV 210+00	RT/LT		RCDI						18	76	.064	.060			X						4.5	2.3	200	1-A				57					5					1			
REV 210+00		LT		RCDI						18	14	.064	.060				X					7.0	3.5	308	1-E			5	5					1				1				
TH2 31+65		LT	76° LT																									19														EXISTING 15'' CGMP - REMOVE
TH2 34+32		CL	83° LT																									33	27													REMOVE EXISTING 1.8' X 24' STONE BOX @ INLET & 18'' ACCGMP AT OUTLET
TH2 34+32	TH2 34+75	LT/RT		HDWL						24	144	.064	.060				X										3.2	334								31	II	1	1			"L" HEADWALL AND STONE FILL TYPE II @ INLET
TH2 34+67	TH2 35+07	RT		RCDI						15	40	.064	.060				X					3.0	1.7	150	1-A			15											1			
TH2 35+07	TH2 36+23	RT		RCDI						15	116	.064	.060				X					4.5	2.1	193	1-A			78											1			
TH2 36+23		CL		RCDI						18	48	.064	.060				X					5.0	2.6	231	1-A			32										1	1			
TH2 36+23	TH2 36+79	RT		RCDI						15	56	.064	.060				X					4.0	2.1	193	1-A			30											1			
REVTH12 20+34	22+98	LT																												116						116	II					CONSTRUCT SPECIAL DITCH(PAY AS COMMON EXCAVATION)
20+50	22+30	RT																												40						40	I					CONSTRUCT SPECIAL DITCH(PAY AS COMMON EXCAVATION)
22+83	23+00	RT/LT		RCDI						18	48			III	.064		X					3.5	1.9	158	1-A			30								1	I	1	1			STONE FILL, TYPE I @ OUTLET
22+89		RT	60° LT																																							REMOVE EXISTING 15'' CGMP W/ NEW 18'' X 48' PIPE
23+02	25+30	LT																												51						51	I					CONSTRUCT SPECIAL DITCH(PAY AS COMMON EXCAVATION)
TH66 0+87		CL																										9														EXISTING 15'' CGMP - REMOVE
TH66 2+50		LT																																								EXISTING 12'' CGMP - RETAIN
SUBTOTALS										15	212	.064	.060				X						16.2	1433	6-A		3.2	640	89	207				6		92	I	6	9			
DRAINAGE SHEET #3										18	136	.064	.060				X		1						1-E											151	II	15				
										18	48			III	.064		X																									
										18	158	.064	.060			X			1																							
										24	144	.064	.060				X																									
TOTALS																																										

STEEL BEAM GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
				ALUM APPR RAIL	ALUM APPR RAIL
REV.	REV.			MOD #1	MOD #2
209+81	210+06	X		25	
REV. 210+28	REV. 210+53		X	25	
TH. #2 30+73 LT	REV. 210+28 RT				75
TOTAL				50	75
TOTALS					

UNDERDRAIN

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

PROJECT NAME MORETOWN
PROJECT NUMBER RS EGC RS0167(9)

29-DEC-1999 DE132DR3
SHEET 14 OF 243 SHEETS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	ALLOWABLE OPTIONS CAAP TH	ALLOWABLE OPTIONS RCP CL	ALLOWABLE OPTIONS CSP TH	ALLOWABLE OPTIONS CPEP SL	CPEP ▬	PIPE ELBOW NO-DEG	E S EA	CB	PRCCDI	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT			REMARKS
SUBTOTALS										0.5	100	(PLASTIC WATER PIPE)																														
SHEET #12										6	165	(SLEEVE)		(PVC SCHEDULE 40)																												
										12	40		.060		.064			2-12''			1		16.1	1426	4-A			704		869					567	55	I	5	11			
										15	494			III	.064	X			1						3-E											11	II	16				
										18	146				.064	X			1																							
										18	88	.064	.060				X																									
										18	160	.064	.060			X			2																							
										18	56		.060		.064			2-18''																								
										24	228	.064	.060			X			1																							
										30	64				.079	X			1																							
SUBTOTALS										1.25	62	(COPPER TUBE)																														
SHEET #13										1	161	(COPPER TUBE)																														
										6	223	(SLEEVE)		(PVC SCHEDULE 40)																												
										18	58				.064								47.2	3964	5-A		4.9	1242	200		72	1386	219	598				7	6			
										18	194	.064	.060			X									4-B											97	II	13				
										18	410		.060		.064		X																									
										18	180	.064	.060				X																									
										24	88	.064	.060			X																										
										36	154	.079	.075			X																										
										60	258		.135		.138																											
SUBTOTALS										15	212	.064	.060				X						16.2	1433	6-A		3.2	640	89	207				6		92	I	6	9			
SHEET #14										18	136	.064	.060				X		1						1-E											151	II	15				
										18	158	.064	.060			X			1																							
										18	48			III	.064		X																									
										24	144	.064	.060				X																									
GRAND TOTALS										0.5	100	(PLASTIC WATER PIPE)																														
										1.25	62	(COPPER TUBE)																														
										1	161	(COPPER TUBE)																														
										6	388	(SLEEVE)		(PVC SCHEDULE 40)																												
										12	40		.060		.064			2-12''			1		79.5	6823	15-A		8.1	2586	289	1076	72	1386	219	604	567	147	I	18	26			
										15	494			III	.064	X			1						4-B											259	II	44				
										15	212	.064	.060				X								4-E																	
										18	58				.064																											
										18	146				.064	X			1																							
										18	512	.064	.060			X			3																							
										18	56		.060		.064			2-18''																								
										18	410		.060		.064		X																									
										18	48			III	.064		X																									
										18	404	.064	.060				X		1																							
										24	144	.064	.060				X																									
										24	316	.064	.060			X			1																							
										30	64				.079	X			1																							
										36	154	.079	.075			X																										
										60	258		.135		.138																											
TOTALS																																										

STEEL BEAM GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT
TOTALS				

UNDERDRAIN

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

PROJECT NAME MORETOWN
PROJECT NUMBER RS EGC RS0167(9)

09-MAY-2000 DE132DR4
SHEET 15 OF 243 SHEETS

EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
													C	99
		162+18.50	480.82	480.82	0.00								R	0
													F	0
		+50	479.05	479.13	+0.08								EX-C	99
		163+00	476.25	476.76	+0.51									
		+50	473.44	474.77	+1.33		BUTT							
		+70	472.32	474.08	+1.76		4							
						30		8						
		164+00	470.64	473.17	+2.53		10							
		+18.5	469.60	472.67	+3.07									
		+34	469.68	472.29	+2.61	50		20						
	+5.0606 %	+50	469.77	471.95	+2.18		12							
		+80	469.93	471.40	+1.47									
						50		71						
		165+00	470.03	471.11	+1.08		65							
		+20	470.14	470.88	+0.74									
						50		266						
		+35.5	470.22	470.75	+0.53									
		+50	470.30	470.66	+0.36		222							
		+70	470.41	470.59	+0.18									
						50		502						
		166+00	470.56	470.59	+0.03		320							
		+18.5	470.66	470.66	0.00									
						50		516						
		+50	470.83	470.87	+0.04		237				0			
						50		386				0		
		167+00	471.10	471.34	+0.24		180				0		C	3416
						50		366				0	R	0
		+50	471.36	471.97	+0.61		215				0		F	60
													F-FAC	1.15
		+68.5	471.46	472.26	+0.80								EX-C	3347
						50		403				1		
		168+00	472.30	472.80	+0.50		220				1			
		+27	473.02	473.32	+0.30									
						50		383				3		
800' VC		+50	473.63	473.80	+0.17		194				2			
						50		289				7		
		169+00	474.96	474.97	+0.01		118				6			
		+18.5	475.45	475.45	0.00									
						50		185				18		
		+50	476.29				82				13			
		+55	476.42											
						50		120				31		
		170+00	477.62				48				20			
						50		63				58		
		+50	478.94				20				43			
						50		19				139		
		171+00	480.27				0				107			
						50		0				192		
	-2.0920 %	+50	481.60	481.60	0.00		0				100			
						50		0				199		
		172+00	482.93	482.83	-0.10		0				115			
		+31	483.76	483.49	-0.27									
						50		0				239		
		+50	484.26	483.84	-0.42		0				143			
		+75	484.93	484.28	-0.65									
						50		0				201	C	849
		173+00	485.59	484.65	-0.94		0				74		R	0
						50		48				89	F	1563
		+50	486.92	485.26	-1.66		52				22		F-FAC	1.15
						50		170				20	EX-F	948
		174+00	488.25	485.65	-2.60		132				0			
						50		317				0		
		+50	487.50	485.84	-1.66		210				0			
		+58	487.38	485.85	-1.53									
		+70	487.20	485.85	-1.35									
		+93	486.86	485.83	-1.03									
						50		232				426		
		175+00	486.75	485.81	-0.94		41				460			
		CARRIED FORWARD												
		COLUMN FOOTINGS						4364				1623		

DEl32E2

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		175+00	486.75	485.81	-0.94		41				460			
						50		38				1204		
		+50	486.00	485.58	-0.42		0				840			
						50		0				1713		
		176+00	485.25	485.15	-0.10		0				1010			
						50						2176	C	38
		+50	484.50	484.50	0.00						1340		R	0
						50						2763	F	24844
		177+00	483.75	483.86	+0.11						1644		F-FAC	1.15
						50						3063	EX-F	28533
		+50	483.00	483.46	+0.46						1664			
						50						2908		
		178+00	482.25	483.27	+1.02						1477			
		+11.5	482.08	483.27	+1.19									
						50						2409		
		+50	481.50	483.32	+1.82						1125			
						50						2413		
		179+00	480.75	483.60	+2.85						1481			
						50						2908		
		+50	480.00	484.10	+4.10						1660			
						50						3287		
		180+00	481.98	484.83	+2.85						1890			
		+29	483.13	485.35	+2.22	50						3718		
		+50	483.97	485.79	+1.82						2125			
						50						4036		
		181+00	485.95	486.97	+1.02						2234			
						50						4100		
		+50	487.93	488.39	+0.46						2194		C	158
													R	0
		+63	488.45	488.79	+0.34								F	28760
						50						3831	F FAC	1.15
		+71.10	488.77	489.05	+0.28								EX-F	32916
		182+00	489.91	490.02	+0.11						1943			
						50						3333		
	-2.0920 %	+50	491.90	491.90	0.00						1657			
						50						2865		
		183+00	493.88								1437			
						50						2439		
		+50	495.86								1197			
		+56.26	496.11	496.11	0.00									
		+95	497.65	497.59	-0.06	50						2025		
		184+00	497.85	497.77	-0.08		0				990			
						50		0				1602		
		+50	499.83	499.47	-0.36		0				740			
						50		158				811		
		185+00	501.81	500.96	-0.85		171				136			
						50		292				126		
		+50	503.79	502.24	-1.55		144				0			
						50		259				0		
		186+00	505.78	503.33	-2.45		136				0			
		SURVEY PC												
		186+26.78	=											
		REVISED POT												
		186+20.52	506.84	503.82	-3.02	50		340						
		EQ.=+6.26												
		+43.74	507.76	504.20	-3.56		231							
		+50	508.01	504.29	-3.72									
						50		511						
		+75	509.00	504.64	-4.36									
		+93.74	508.74	504.87	-3.87		321							
		187+00	508.65	504.93	-3.72									
		+06.74	508.55	505.00	-3.55	50.01		602						
		+43.75	508.04	505.33	-2.71		329							
		+50	507.95	505.37	-2.58	50.02		506						
		+93.77	507.33	505.57	-1.76		217				0			
		188+00	507.25	505.60	-1.65									
		CARRIED FORWARD						2510				126		
		COLUMN FOOTINGS						2706				53730		

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		188+00	507.25	505.60	-1.65									
						50.01		315				6		
		+43.78	506.63	505.62	-1.01		123				6			
		+50	506.55	505.62	-0.93	50.01		150				15		
		+93.79	505.93	505.46	-0.47		39				10		C	3201
		189+00	505.84	505.43	-0.41	50.01		82				16	R	0
													F	177
		+43.80	505.23	505.10	-0.13		50				7		F FAC	1.15
		+50	505.14	505.04	-0.10								EX-C	2997
		+61.81	504.98	504.92	-0.06	50.01		144				14		
	-1.1171 %	+68	504.89	504.85	-0.04									
		+93.81	504.53	504.53	0.00		105				8			
		190+00	504.44	504.44	0.00									
						50.00		182				17		
		+43.81	503.83				92				10			
		+50	503.74											
220' VC		+75	503.39	503.39	0.00	49.99		109				19		
		+93.80	503.13	503.15	+0.02		26				10			
		191+00	503.04	503.07	+0.03									
		+15.80	502.82	502.90	+0.08	49.99		44				52		
		+22	502.73	502.84	+0.11									
													C	2107
		+43.79	502.42	502.66	+0.24		21				46		F	749
													F FAC	1.15
	+8.6476 %	+50	502.34	502.62	+0.28								EX-C	1246
		+66.78	502.10	502.52	+0.42	49.97		32				154		
		+73	502.01	502.49	+0.48									
		+93.76	501.72	502.42	+0.70		14				120			
		192+00	501.64	502.42	+0.78	49.96		66				220		
		+43.72	501.02	502.44	+1.42		57				118			
		+50	500.93	502.45	+1.52	49.96		150				192		
		+93.68	500.32	502.70	+2.38		105				90			
		+99.68	500.24	502.75	+2.51									
		193+00	500.23	502.75	+2.52	50.02		219				89		
		+06	500.15	502.80	+2.65									
		+43.70	499.62	503.21	+3.59		131				6			
		+50	499.53	503.29	+3.76									
		+63.71	499.34	503.48	+4.14	31.30		152				6		
		+70	499.25	503.58	+4.33									
		+75					131(BUTT)				4			
		+75					120(BUTT)				0	0		
						18.73		83						
		+93.73	498.92	503.97	+5.05		120				0			
		194+00	498.83	504.08	+5.25	50.03		380				0		
		+43.76	501.04	504.97	+3.93		290				0			
		+50	501.36	505.12	+3.76	50.03		690						
		+93.79	503.58	506.24	+2.66		455							
		195+00	503.89	506.41	+2.52									
						50.03		987						
		+43.82	506.11	507.74	+1.63		610		0		0			
		+50	506.42	507.94	+1.52	50.03		1093		0		0		
		+93.85	508.64	509.50	+0.86		570		0		0			
		196+00	508.95	509.73	+0.78	50.03		769		0		0		
		+43.88	511.17	511.50	+0.33		260		0		0			
		+50	511.48	511.76	+0.28	50.03		574				0		
		+93.91	513.70	513.75	+0.05		360				0			
		CARRIED FORWARD						3423		0		0		
		COLUMN FOOTINGS						6221		0		800		

design/78el32/del32.dgn

PROJECT NAME MORETOWN
PROJECT NUMBER RS 0167(9)

14-FEB-2000
SHEET 16 OF 243 SHEETS

EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GRADES							TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V.C.	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		196+93.91	513.70	513.75	+0.05		360				0			
		197+00	514.01	514.04	+0.03									
						50.03		547				0		
		+25	515.28	515.28	0.00									
		+43.94	516.24				230				0		C	4574
													F	1780
400' VC	-5.6100 %	+50	516.54										R	60
						50.03		233				16	F FAC	1.15
		+75	517.81	517.81	0.00								R FAC	0.495
													EX-C	2557
		+93.97	518.77	518.75	-0.02		22				17			
		198+00	519.07	519.04	-0.03	50.03		37				146		
							18 BK							
	+0.5314 %	+44.00	521.30	521.09	-0.21		161 AH				141 BK			
		+50	521.60	521.35	-0.25	6.00	161	36			170 AH	34		
						44.03		131				453		
		+94.03	523.83	523.20	-0.63		0		0		385			
		199+00	524.13	523.43	-0.70	50.03		23		0		647		
		+44.06	526.36	525.08	-1.28		25		0		313			
		+50	526.66	525.29	-1.37	50.02		144		60		484		
		+94.08	528.89	526.74	-2.15		130		65		210			
		200+00	529.19	526.93	-2.26									
		+16.51	530.03	527.42	-2.61	50.98		713		187		353		
		+22	530.31	527.58	-2.73									
300' VC		+45.06	531.47	528.21	-3.26		625		133		164			
		+50	531.72	528.34	-3.38	50.97		2544		650		206		
		+96.03	534.05	529.44	-4.61		2070		556		54		C	38308
													F	1028
	+2.6588 %	201+00	534.25	529.53	-4.72	25.48		2004		550		60	R	4180
													F FAC	1.15
		+21.51	535.34	529.97	-5.37		2177		610		73		R FAC	0.495
		+25	535.52	530.04	-5.48	25.47		2020		377		83	EX-C	39195
		+46.98	536.63	530.44	-6.19		2105		189		103			
		+50	536.78	530.49	-6.29									
		+75	538.05	530.90	-7.15									
		+78.55	537.98	530.95	-7.03	50.92		3612		207		191		
		+81	537.92	530.98	-6.94									
		+97.90	537.57	531.21	-6.36		1725		30		100			
		202+00	537.53	531.24	-6.29	25.43		1872		130		49		
		+23.33	537.04	531.51	-5.53		2251		245		3			
		+25	537.00	531.52	-5.48	25.43		2262		300		5		
		+48.76	536.51	531.75	-4.76		2553		393		7			
		+50	536.48	531.76	-4.72	50.70		5387		665		18		
500' VC		+99.46	535.45	532.06	-3.39		3185		315		12			
		203+00	535.44	532.06	-3.38									
						50.14		5669		580		21		
		+49.60	534.40	532.13	-2.27		2920		310		11			
		+50	534.39	532.13	-2.26									
						50.13		4791		366		18		
		+99.73	533.35	531.98	-1.37		2241		84		8			
		204+00	533.34	531.97	-1.37									
						50.14		4059		123		16		
		+49.87	532.30	531.60	-0.70		2131		48		9			
	-1.5000 %	+50	532.30	531.60	-0.70									
						50.13		3375		45		8		
		205+00	531.25	531.00	-0.25		1505		0		0			
CARRIED FORWARD														
COLUMN FOOTINGS								39459		4240		2808		

GRADES							TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V.C.	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
	-1.5000 %	205+00	531.25	531.00	-0.25		1505		0		0			
						25		1254		0		11		
		+25	530.73	530.62	-0.11		1203		0		23			
						25.01		952				14		
		+48.50	530.24	530.21	-0.03									
		+50	530.21	530.18	-0.03									
		+50.01	530.20	530.17	-0.03		853				7			
600' VC		+75	529.68	529.68	0.00	34.96		772				5		
		+84.97	529.47				340				0			
		+85	529.47											
						14.96		126				4		
		+99.93	529.16				114				15			
		206+00	529.16											
		+25	528.64											
		+31.31	528.50											
		+31.50	528.50											
						49.79		217				14		
		+49.72	528.12				121				0			
		+50	528.11											
	+3.9658 %					49.68		116				172		
		+99.40	527.08				5				187			
		207+00	527.07											
		+26.18	526.52											
		+27	526.50											
		+34.61	526.34											
		+35.50	526.32			49.58		5				764		
		+48.98	526.04				0				645			
		+50	526.02											
		+81.66	525.36											
		+83	525.33											
						49.51						1151		
		+98.49	525.01								610		C	4342
													R	63
		208+00	524.98										F	5038
		+14.32	524.68										R-FAC	0.495
650' VC		+16	524.64										F-FAC	1.15
		+31.13	524.32										EX-F	1421
		+33	524.28											
						49.45						1122		
		+47.94	523.97								615			
		+50	523.93											
		+67.71	523.56											
		+70	523.51											
						49.42						1081		
		+97.36	522.94				0		0		566			
		209+00	522.88											
						49.41		393		0		612		
		+46.77	521.90				430		0		103			
		+50	521.84											
						31.63		349		29		63		
		+78.40	521.24				165		50		5			
		+82	521.17			17.79		113		26		15		
		+96.19	520.87				177		30		40			
	-1.4028 %	210+00	520.79			6.81		45		8		10		
		+03	520.73				177		30		40			
							BUTT		BUTT		BUTT			
							END PROJECT RSEGC-RS 0167(9)							
							BEGIN PROJECT BRS 0167(11)							
CARRIED FORWARD														
COLUMN FOOTINGS								4342		63		5038		

GRADES							TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V.C.	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
							TOWN HIGHWAY 66							
		0+20	488.89								0			
		0+21	488.88	488.88	0.00	10						10		
		0+30	488.78	488.80	+0.02						55			
						17						183		
		0+47	488.59	488.74	+0.15						525			
		0+50	488.55	488.74	+0.19	23						454		
													C	98
		0+70	488.33	488.86	+0.53						540		F	1862
						17						373	F-FAC.	1.15
		0+87	488.14	489.11	+0.97						645		EX-F	2043
						11						210		
		0+98	488.02	489.35	+1.32						385			
		1+00	488.00	489.39	+1.39	33						382		
		1+31	487.65	490.34	+2.69						240			
		1+50	489.29	491.13	+1.84	30						189		
	-1.4028 %	1+61	490.24	491.66	+1.42		0				100			
						33		21				61		
		1+94	493.10	493.59	+0.49		35				0			
		2+00	493.62	493.99	+0.37	26		34						
		2+20	495.35	495.45	+0.10		35							
		2+41	497.16	497.16	0.00	33		43						
		2+50	497.94											
		2+53	498.20				35							
							BUTT							
650' VC	+5.0606 %													
CARRIED FORWARD														
COLUMN FOOTINGS								98		0		1862		

PROJECT NAME MORETOWN
PROJECT NUMBER RS 0167(9)

SHEET 17 OF 243 SHEETS

DEI32EI

EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	CU. YDS.	ROCK EXCAVATION AREA	CU. YDS.	EMBANKMENT AREA	CU. YDS.	AREA	CU. YDS.
							TOWN HIGHWAY 12							
	+6.3000 %	REVISED ML												
		207+98.47	=											
		TH 12												
		19+93.35	525.00											
													C	11331
		20+05.35	525.76										F	527
													R	158
100' VC		+13.35	526.26	526.26	0.00						0		F-FAC	1.15
	+2.1000 %					16.66						39	R-FAC	0.495
		+30.01	526.61	526.73	+0.12		0				125		EX-C	10803
						20.10		25				125		
		+34.01	526.69	526.88	+0.19									
		+43.05	526.88	527.26	+0.38									
		+50	527.03	527.62	+0.59									
		+50.11	527.03	527.62	+0.59		66				210			
	+10.8197 %	+63.35	527.31	528.40	+1.09									
		+71.61	528.20	528.96	+0.76									
						52.84		262				205		
		+94.01	530.63	530.79	+0.16									
		+95.11	530.75	530.90	+0.15									
		+98.45	531.11	531.21	+0.10									
		21+00	531.28	531.36	+0.08									
		+02.95	531.59	531.64	+0.05		202				0			
		+13.35	532.72	532.72	0.00									
						56.72		2035						
		+50	536.69											
		+59.67	537.73				1735		0					
						36.75		2656		82				
		+96.42	541.71				2167		121					
		22+00	542.10			34.08		2251		76				
		+30.50	545.40				1400		0		0			
		+50	547.51			51.66		1918				24		
		+82.16	550.98				605				25			
		23+00	552.91											
						71.65		1042				80		
		+50	558.32											
		+53.81	558.74				180				35			
		24+00	563.73			63.60		452				48		
		+17.41	565.62				204				6			
		+50	569.14			57.84		404				6		
		+75.25	571.88				173				0			
		25+00	574.55			54.75		226						
		+30	577.80				50							
	SPLINE					49.69		60						
		+79.69	582.72				15							
							BUTT							
		CARRIED FORWARD												
DEI32ES		COLUMN FOOTINGS						11331		158		527		

V. C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	CU. YDS.	ROCK EXCAVATION AREA	CU. YDS.	EMBANKMENT AREA	CU. YDS.	AREA	CU. YDS.
							TOWN HIGHWAY 2							
	+6.3000 %	REVISED ML												
		209+81.36	=											
		TH 2												
		29+92.68	521.18											
		30+12.68	522.44											
174.60' VC	+2.0958 %	+12.70	522.44	522.44	0.00		0		0		0		C	7141
						12.3		26		5		3	F	4663
		+25	522.70	522.68	-0.02		115		21		15		R	2830
						25		253		10		7	F-FAC.	1.15
		+50	523.22	523.02	-0.20		432		0		1		R-FAC.	0.495
						25		381				9	EX-C	3179
		+75	523.75	523.18	-0.57		391				18			
						25		239				20		
	-3.0248 %	31+00	524.27	523.15	-1.12		125				26			
						25		99				12		
		+25	523.51	522.94	-0.57		88				0			
						25		189				7		
		+50	522.76	522.56	-0.20		320		0		15			
		+65	522.30	522.23	-0.07									
						50		949		468		14		
312.70' VC		+87.30	521.63	521.63	0.00									
		32+00	521.25	521.26	+0.01		705		505		0			
						50		1542		1199				
		+50	519.73	519.93	+0.20		960		790					
		+75	518.98	519.36	+0.38	50		1671		940				
		33+00	518.22	518.85	+0.63		845		225		0			
		+43.65	516.90	518.11	+1.21	50		1070		208		34		
	+0.0780 %	+50	516.91	518.03	+1.12		311		0		37			
						50		288				282		
		34+00	516.94	517.44	+0.50		0				268			
		+32	516.97	517.20	+0.23	50		0				739		
		+50	516.98	517.10	+0.12		0				530			
						50		0				1002		
200' VC		35+00	517.02	517.02	0.00		0				552			
						50		18				876		
		+50	517.06	516.94	-0.12		19				394			
						50		66				530		
		36+00	517.10	516.63	-0.47		52				178			
						50		138				378		
		+50	516.20	516.08	-0.12		97				230			
						50		120				481		
	-1.8000 %	37+00	515.30	515.30	0.00		33				290			
						50		61				269		
		+50	514.40				33				0			
						25		31				0		
		+75	513.95				33				0			
							BUTT							
		CARRIED FORWARD												
		COLUMN FOOTINGS						7141		2830		4663		

SUMMARY AND BALANCES

STATION	TO STATION	TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
161+00	165+00	99	0	0	99		99	
165+00	170+00	3416	0	60	3347		3446	
170+00	175+00	849	0	1563		948	2498	
175+00	180+00	38	0	24844		28533		26035
180+00	185+00	158	0	28760		32916		58951
185+00	190+00	3201	0	177	2997			55954
190+00	195+00	2107	0	749	1246			54708
195+00	200+00	4574	60	1780	2557			52151
200+00	205+00	38308	4180	1028	39195			12956
205+00	210+03	4342	63	5038		1421		14377
MAINLINE								
SUB-TOTALS		57092	4303	63999				
TH 66		98	0	1862		2043		16420
TH 12		11331	158	527	10803			5617
TH 2		7141	2830	4663	3179			2438
DRIVES		1285	0	11684		12152		14590
OVERBREAKAGE(ML&TH2)		280	280	0	419			14171
REMOVAL OF PAVEMENT								
0'-2' BELOW SUBGRADE		166	0	166		25		14196
CUT TO FILL								
TRANSITIONS		248	0	248		37		14233
FILL FOR EXCAV.								
SURF. & PAVEMENTS		0	0	470		540		14773
FROM DRAIN. SHEET:								
EXCAV. SPEC. DITCH		1076	0	0	1076			13697
BRIDGE 300 SERIES(RET. WALL)		2630	0	0	2630			11067
TOTALS		*81347	7571	*83619				

*NOTE: CUT QUANTITIES INCLUDE DESIGNED SAND BORROW
FILL QUANTITIES EXCLUDE DESIGNED SAND BORROW

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY
	1	4364	0	1623
	2	2706	0	53730
	3	6221	0	800
	1	39459	4240	2808
	2	4342	63	5038
MAINLINE				
SUB-TOTALS		57092	4303	63999
TOWN HIGHWAYS 66, 12, AND 2				
	3	98	0	1862
	1	11331	158	527
	2	7141	2830	4663
DRIVES		1285	0	11684
OVERBREAKAGE		280	280	0
REMOVAL OF				
PAVEMENT 0'-2'				
BELOW SUBGRADE		166	0	166
CUT TO FILL				
TRANSITIONS		248	0	248
FILL FOR EXCAV.				
SURF. &PAVEMT'S		0	0	470
FROM DR. SHEET				
EXCAV. SPEC.				
DITCHES		1076	0	0
BRIDGE 300 (RET. WALL)		2630	0	0
TOTALS		81347	7571	83619

REMARKS

EARTH AND ROCK EXCAVATION		81347
SOLID ROCK EXCAVATION		7571
EARTH EXCAVATION		73776
PLANIMETERED FILL		83619
LESS [redacted] SOLID ROCK FILL		7571
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		0
NET PLANIMETERED FILL		76048
FACTOR	0.15	11407
PLANIMETERED FILL INCLUDING FACTOR		87455
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		73776
CHANNEL EXCAVATION	40% X 75	30
UNDERDRAIN EXCAVATION	60% X 1971	1183
STRUCTURE EXCAVATION (60%X1400+100%X9300)		10140
TOTAL MATERIAL AVAILABLE FOR FILL		85129
TOTAL FILL INCLUDING FACTOR		87455
TOTAL MATERIAL FOR FILL		85129
BORROW		2326
EXCESS EXCAVATION		

design/78el32/del32.dgn

PROJECT NAME MORETOWN
PROJECT NUMBER RS 0167(9)

16-FEB-2000
SHEET 18 OF 243 SHEETS

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
1A	TURNER, FLORENCE P.	11,15	164+67 RT. 164+72 RT. 164+37 RT. 165+17 RT.	166+77 RT. 164+75 RT.	0.08A±		EXCEPT & RESERVE DRIVE (T)	WD	03-31-94	MORETOWN	52	649-650	3339 S.F.± WATERLINE 12′ PAVED M.P. 0699 DRIVE 14′ PAVED M.P. 0701
1B			164+90 LT. 165+38 LT.				DRAINAGE (P)						DRIVE 24′ PAVED M.P. 0700
2A	SCRIBNER, STANLEY R., SR. & CATHERINE J.	11,12 13,14 15,16 18	165+38 LT. 165+36 LT. 165+40 LT. 167+35 LT. 170+85 LT. 174+00 LT. 174+63 LT. 174+90 LT. 178+12 LT. 180+00 LT. 182+00 LT.	185+00 LT. 172+80 LT. 171+50 LT. 185+30 LT. 185+17 LT.	2.70A±		CONST. (T) 0.10A± DRAINAGE (P) SLOPE (P) 0.01A± DRIVE (T) CONST. (T) 0.25A± SLOPE (P) 0.35A± CUL., DIT. & DR. (P) DRIVE (T) CUL., DIT. & DR. (P)	WD		MORETOWN			DRIVE 16′ GRAVEL M.P. 0705 70 S.F.± 16′ GRAVEL M.P. 0718 12′ GRAVEL M.P. 0729
2B			REV. 186+50 LT.	REV. 188+37 LT.	0.10A±								
2C			168+17 LT.	182+43 RT.	0.83A±		ALL R. T. & I.						HWY EASE. RTE. 100B
2D			REV. 186+54 LT.	REV. 188+40 LT.	0.10A±		ALL R. T. & I.						HWY EASE. RTE. 100B
2E			TH 2 35+82 CL. REV. 208+15 RT. TH 2 36+00 RT. TH 2 36+50 RT.	TH 2 37+68 RT. REV. 208+35 RT. TH 2 36+80 RT.	0.11A±		ALL R. T. & I. ALL R. T. & I. SLOPE (P) DRIVE (T)						HWY EASE. TH 2 SPRINGS 180 S.F.± 16′ GRAVEL

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	7,12	PARCEL NO. 9 COWAN. ADD EARLINE MARSH, H & W TO TITLE. PER C.O. 8199.	02-25-92	M.J.R.	L.W.B.
2	5,11	PARCEL NO. 3 FERGUSON. CHANGE TITLE TO WILLIAM J. BANDY & SUZANNE M. FONTAINE, H & W. PER C.O. 8200.	02-25-92	M.J.R.	L.W.B.
3	9,13 14	PARCEL NO. 13 GREEN MT. POWER. CHANGE ENDING STA. TO REV. 211+22 RT. PER C.O. 8207.	03-23-92	M.J.R.	L.W.B.
4	1,14	CHANGE ENDING STA. FOR END R.O.W. PROJECT TO REV. 211+22 80′ RT. LENGTH OF ROW PROJECT : 4661 FEET, 0.883 MILES. PER C.O. 8208.	03-23-92	M.J.R.	L.W.B.
5	1,9 10,13 14	CREATE NEW PARCEL 13F GREEN MT. POWER CORP. CHANGE ENDING STA. ON PARCEL 2E ON LAYOUT TO TH 2 37+65 27′ RT. ADD "REV." TO MAINT. AREAS AND RELINQUISHMENTS THAT INVOLVE TH 12. ADD "CL" TO MAINT. AREA NO. 3 ON LAYOUT. PER C.O. 8216.	05-19-92	M.J.R.	L.W.B.
6	10,12	CREATE NEW PARCELS; NO. 15 CHURCH STREET WATER SYSTEM & NO. 16 MIDDLESEX NON-PROFIT WATER SYSTEM. CHANGE PARCEL NO. 15 VELCO TO NO. 17, AND PARCEL NO. 16 NEW ENGLAND TELEPHONE COMPANY TO NO. 18. PER C.O. 8232.	06-29-92	C.C.P.	L.W.B.
7	4,11	PARCEL NO. 1 TURNER. REMOVE DRIVE (T) FROM RIGHTS COLUMN. ADD "DRIVE 24′ PAVED M.P. 0700 IN REMARKS COLUMN. CHANGE DRIVE NOTE ON LAYOUT FROM 164+80 LT. 164+90 LT. PER C.O. 8282.	11-05-92	M.J.R.	L.W.B.
	7	PARCEL NO. 9 COWAN. CHANGE 16′ DRIVE AT STA. 184+50 RT. TO 24′ DRIVE AT STA. 184+40 RT. PER C.O. 8282.	11-05-92	M.J.R.	L.W.B.
	8	PARCEL NO. 10 AGOSTA. CHANGE 16′ DRIVE AT STA. 189+55 LT. TO 24′ DRIVE AT STA. 189+57 LT. PER C.O. 8282.	11-05-92	M.J.R.	L.W.B.
	8	PARCEL NO. 13 GREEN MOUNTAIN POWER. CHANGE 15′ DRIVE AT 193+49 RT. TO 30′ DRIVE AT STA. 193+70 RT. PER C.O. 8282.	11-05-92	M.J.R.	L.W.B.
8	10,13	PARCEL NO. 15 CHURCH STREET WATER SYSTEM. CHANGE NAME TO CHURCH STREET COOPERATIVE WATER CO., INC. PER C.O. 8297.	12-11-92	C.C.P.	L.W.B.

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DATE PLOTTED 23-JUN-1994
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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
P L 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 SR SLOPE RIGHTS
P L PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

REVISED 06-22-94

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D. PLANS & TITLES

R.O.W. PLANS
MORETOWN
RSEGC-RS 0167(9)
Sheet 20 of 243
SHEET 4 OF 20

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
3A	BANDY, WILLIAM J. & FONTAINE, SUZANNE M.	11,15	167+77 RT. 167+20 RT. 168+27 RT.	169+27 RT. 168+55 RT.	0.09A±		SLOPE (T) 0.01A± DRIVE (T)	WD	02-23-94	MORETOWN	52	647-648	3805 S.F.± 350 S.F.± 12′ GRAVEL M.P. 0707
3B			168+17 RT.	169+27 RT.	0.06A±		ALL R. T. & I.						HWY EASE. RTE. 100B 2750 S.F.±
4A	BIGELOW, PAUL W. - TRUST PAUL BIGELOW & FRED G. SMITH - TRUSTEES	11,13 14,15 17,18	169+27 RT. 169+55 RT. 169+27 RT.	169+80 RT. 169+82 RT.	0.02A±		CONST. (T) 0.01A±	WD		MORETOWN			875 S.F.± DRIVE 12′ GRAVEL M.P. 0709 325 S.F.±
4B			REV. 197+05 RT. REV. 197+10 RT. REV. 200+68 RT. REV. 200+90 RT.	REV. 198+12 RT. REV. 198+00 RT. REV. 204+26 RT. REV. 204+26 RT.			CONST. (T) 0.02A± SLOPE (P) 0.04A± CONST. (T) 0.07A± SLOPE (P) 0.22A±						1100 S.F.± 1550 S.F.± 3200 S.F.±
4C			REV. 206+73 RT. REV. 208+15 RT. REV. 208+15 RT.	TH 2 30+76 LT. REV. 208+35 RT. REV. 209+90 LT.	0.55A±		ALL R. T. & I. ALL R. T. & I.						SPRINGS WATERLINE
4D	PARCEL 4E THRU 4J CONTINUED ON NEXT SHEET		REV. 209+42 RT. REV. 209+05 RT. REV. 209+20 RT. TH 2 31+10 RT. TH 2 34+50 RT. TH 2 34+88 RT.	TH 2 35+82 RT. TH 2 33+90 RT. TH 2 30+73 RT. TH 2 33+75 RT. TH 2 34+75 RT.	0.59A±		CONST. (T) 0.10A± SLOPE (P) 0.01A± SLOPE (P) 0.21A± CUL. (T)						280 S.F.± 12′ DRIVE

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
9	10	PARCEL NO. 16 MIDDLESEX NON-PROFIT WATER SYSTEM. CHANGE ENDING STATION FROM REV. 193+40 RT. TO REV. 193+40 LT. PER C.O. 8298.	12-11-92	C.C.P.	L.W.B.
10	4	PARCEL NO. 1 TURNER. DELETE ALL R.T. & I. IN SEPTIC AND WATERLINE. PER C.O. 8326.	02-16-93	M.J.R.	L.W.B.
11	1	ADD RELINQUISHMENT #1 TO TITLE SHEET BEGIN STA. MM 0137± (END OF BRIDGE) TO MM 564, RT. 100B PER C.O. 8331.	02-19-93	C.C.P.	L.W.B.
12	4, 11, 15	PARCEL NO. 1 TURNER. CHANGE ENDING STA. FOR PARCEL 1A TO 166+77 RT.; 0.08A±, 3339 S.F.±. PER C.O. 8396.	06-16-93	M.J.R.	L.W.B.
13	5, 11, 15	PARCEL NO. 3 BANDY & FONTAINE. CHANGE BEGINNING STA. OF PARCEL 3A TO 166+77 RT. 0.09A±; 3805 S.F.±. PER C.O. 8397.	06-16-93	M.J.R.	L.W.B.
14	5, 6, 11, 13 15	PARCEL NO. 4 BIGELOW & SMITH. CHANGE ENDING STA. OF TAKE TO 169+80 RT., 875 S.F.±; RUNNING DISTANCE OF 53′. CHANGE END OF CONST. (T) TO 169+82 RT.; 325 S.F.±. DELETE TAKE AREA ON 4B. CHANGE ENDING STA. OF SLOPE (P) TO 198+00 RT.; 0.04A±, 1550 S.F.±. CHANGE ENDING STA. OF CONST. (T) TO 198+12 RT.; 0.02A±, 1100 S.F.±. CHANGE BEGINNING STA. OF CONST. (T) TO 200+68 RT. 0.07A±, 3200 S.F.±. CHANGE BEGINNING STA. OF SLOPE (P) TO 200+90 RT.; 0.22A± DELETE PARCEL 4G. PER C.O. 8398.	06-16-93	M.J.R.	L.W.B.
15	8, 9, 13	PARCEL NO. 13 GREEN MOUNTAIN POWER. CHANGE AREA OF PARCEL 13A FROM 1.08A± TO 2.08A±. CHANGE ENDING STA. OF SLOPE (P) FROM 197+37 RT. TO 198+40 RT., AND CHANGE SLOPE AREA FROM 0.33A± TO 0.39A±. ADD NEW CONST. (T) AT STA. REV. 198+00 RT. ~ REV. 198+56 RT. WITH AREA OF 0.01A± (500 S.F.±). ADD NEW CONST. (T) AT STA. REV. 200+08 RT. ~ REV. 200+90 RT. WITH AREA OF 0.01A± (600 S.F.±). ADD NEW SLOPE (P) AT STA. REV. 200+45 RT. ~ REV. 204+26 RT. WITH AREA OF 0.23A±. CHANGE AREA OF PARCEL 13D FROM 0.77A± TO 1.10A± PER C.O. 8400.	06-16-93	M.J.R.	L.W.B.
16	8	PARCEL NO. 12 AYRES. CHANGE TAKE AREA OF PARCEL 12A FROM 0.04A± (1545 S.F.±) TO 0.02A± (725 S.F.±) ON DETAIL SHEET. PER C.O. 8399.	06-16-93	M.J.R.	L.W.B.

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DATE PLOTTED 17-DEC-1993
78el32d2.i

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

REVISED 12-17-93

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D. PLANS & TITLES

R.O.W. PLANS
MORETOWN
RSEGC-RS 0167(9)
Sheet 21 of 243
SHEET 5 OF 20

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
	SEE PREVIOUS SHEET FOR PARCEL 4A THRU 4D												
4E			REV. TH 12 24+82 LT. REV. TH 12 25+80 LT. REV. TH 12 25+48 LT.	REV. 208+08 RT. REV. 208+30 RT. REV. 208+16 RT.	0.24A±		CONST. (T) 0.10A± SLOPE (P) 0.35A±	WD		MORETOWN			
4F			169+27 RT.	169+77 RT.	0.03A±		ALL R. T. & I.						HWY EASE. RTE. 100B 1250 S.F.±
4G	DELETED												
4H			REV. 206+57 LT. TH 2 34+44 LT. TH 2 34+50 LT. TH 2 36+21 LT.	TH 2 37+70 LT. TH 2 37+20 LT. TH 2 37+32 LT.	0.56A±		ALL R. T. & I. SLOPE (P) 0.24A± CONST. (T) 0.07A± CULVERT & DRAINAGE (P)						TH 2 2950 S.F.±
4I			REV. 206+48 RT.	REV. 206+82 LT.	0.05A±		ALL R. T. & I.						TH 12 2325 S.F.±
4J			REV. 206+48 RT.	REV. TH 12 25+80 LT.	0.23A±		ALL R. T. & I.						TH 12
4K			REV. 196+32 RT.	REV. 198+35 RT.	0.41A±								
4L		14	TH 2 34+44 LT.	TH 2 38+35 LT.	0.55A±								
4M		13	REV. 201+00 RT.	REV. 204+26 RT.	0.22A±								
4N		13	REV. TH 12 20+60 LT.	REV. TH 12 25+40 LT.	0.35A±								
4O		13	REV. 209+20 RT.	REV. 209+48 RT.	0.01A±								280 S.F.±
4P		13,14	TH 2 31+10 RT.	TH 2 33+75 RT.	0.21A±								
4Q		14	TH 2 37+68 RT.	TH 2 38+55 RT.	0.05A±								2250 S.F.±
5A	SPILAK, GEORGE V. & CAROL J.	11,15	169+77 RT.	172+59 RT.	0.11A±			WD	03-09-94	MORETOWN	52	376-377	
			169+83 RT. 172+25 RT.	171+60 RT.			DRIVE (T)						SPLIT RAIL FENCE 12′ GRAVEL M.P. 0714
5B			169+77 RT.	172+49 RT.	0.16A±		ALL R. T. & I.						HWY. EASE. RT 100B

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
17	15	PARCEL NO. 5 SPILAK. ON LAYOUT, CHANGE STATION ALONG TAKE LINE FROM 169+77, 45′ RT. TO 169+80, 45′ RT. AND CHANGE RUNNING DISTANCE ALONG TAKE LINE FROM 282′ TO 279′. PER C.O. 8401.	06-16-93	M.J.R.	L.W.B.
18	7	PARCEL NO. 9 COWAN, MARSH. ON PARCEL 9B, ADD "DRIVE (T)" AT STA. REV. 186+59 RT. AND REMOVE "DRIVE" FROM REMARKS COLUMN. ON PARCEL 9C, ADD "DRIVE (T)" AT STA. 184+40 RT. AND REMOVE "DRIVE" FROM REMARKS COLUMN. ALSO ON PARCEL 9C, AT STA. 185+28 RT., CHANGE SLOPE AREA FROM 0.07A± TO 0.01A±. PER C.O. 8416.	07-28-93	C.C.P.	L.W.B.
19	11,15	PARCEL NO. 6 MCDONOUGH. CHANGE CONSTRUCT DRIVE NOTE ON PLANS FROM "174+70 RT. (GRAVEL)" TO "174+70 RT. (SUBBASE MOD.)" DUE TO PROPERTY OWNER'S REQUEST. PER C.O. 8394.	08-17-93	C.C.P.	L.W.B.
20	8,12 16	PARCEL NO. 11 CLARK. RELOCATE DRIVE FROM STA. REV. 190+02 RT. TO STA. REV. 190+86 RT. ELIMINATE SLOPE (T) FROM STATION REV. 190+10 RT. TO REV. 190+65 RT. EXTEND SLOPE (T) AT STATION REV. 189+70 RT. TO REV. 190+65 RT. AND INCREASE AREA TO 375 S.F.± PER C.O. 8395.	08-17-93	C.C.P.	L.W.B.
21	4	PARCEL NO. 2E SCRIBNER. ADD "ALL R. T. & I." AT STA. REV. 208+15 RT. ~ REV. 208+35 RT. FOR SPRINGS. PER C.O. 8424.	09-01-93	C.C.P.	L.W.B.
22	9,13	PARCEL NO. 14 BIGELOW, HAYES. REMOVE BIGELOW, PAUL W. FROM TITLE. PER C.O. 8425.	09-01-93	C.C.P.	L.W.B.
23	4,11	PARCEL NO. 1 TURNER. REMOVE HOWARD W. FROM TITLE. PER C.O. 8462.	12-02-93	M.J.R.	L.W.B.
	8,9, 13	PARCEL NO. 13A GREEN MT. POWER. ADD DRIVE AT STA. 198+50 RT. PER C.O. 8463.			
	17	PARCEL NO. 13B. DELETE CONST. (T) & SLOPE (P). ADD DRIVE (T) AT STA. REV. 198+13 LT. ~ REV. 199+55 LT. ADD DRAINAGE (P) AT REV. 199+44 LT. PER C.O. 8463.			
	5,11, 13,14	PARCEL NO. 4 BIGELOW. CHANGE TITLE TO BIGELOW, PAUL W. - TRUST PAUL BIGELOW & FRED G. SMITH - TRUSTEES PER C.O. 8464.			

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DATE PLOTTED 18-JAN-1996
78el32d3.i

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

REVISED 01-19-96

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D. PLANS & TITLES

R.O.W. PLANS
MORETOWN
RSEGC-RS 0167(9)
Sheet 22 of 243
SHEET 6 OF 20

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
6A	MCDONOUGH, CHARLES D., SR. & DOROTHEA E.	11,15	172+49 RT. 173+82 RT. 174+40 LT. 174+70 RT.	175+18 RT. 175+20 RT. 174+40 RT.	0.05A±		SLOPE (T) 0.01A± ALL R. T. & I. DRIVE (T)	WD	03-24-94	MORETOWN	52	655-656	2340 S.F. ± 320 S.F. ± SEWER LINE 16′ M.P. 0719
6B			172+49 RT.	178+17 RT.	0.33A±		ALL R. T. & I.						HWY EASE. RTE. 100B
7	YALICKI, CARL & FRIBERG, CAROLYN J.	11,12 15,16	178+14 RT. TH 66 1+20 RT.	181+71 RT. TH 66 1+45 RT.	0.21A±		ALL R. T. & I. SLOPE (T) 0.01A±	WD		MORETOWN			HWY EASE. RTE. 100B 25 S.F. ±
8	LEWIS, GREGORY A. & DIANE L.	12,16	181+68 RT. TH 66 1+30 LT.	182+45 RT. 182+20 RT.	0.04A±		ALL R. T. & I. SLOPE (T) 0.01A±	WD	04-27-94	MORETOWN	53	147-148	HWY EASE. RTE. 100B 1888 S.F. ± 360 S.F. ±
9A	COWAN, WAVELL F. & MARSH, EARLINE	12,16	182+37 RT. 185+70 LT.	REV. 186+54 LT. REV. 186+60 LT.	0.52A±			WD		MORETOWN			PARKING AREA
9B			185+63 RT. 186+18 RT. REV. 186+59 RT. REV. 187+12 RT.	REV. 188+42 RT. REV. 188+30 RT. REV. 188+42 RT.	0.09A±		SLOPE (T) 0.05A± DRIVE (T) ALL R. T. & I.						3744 S.F. ± 2140 S.F. ± 12′ PAVED M.P. 0741 WATERLINE
9C			182+40 RT. 183+08 RT. 184+15 RT. 184+40 RT. 185+28 RT.	REV. 188+41 RT. 184+50 RT. 184+63 RT. 185+88 RT.	0.59A±		ALL R. T. & I. SLOPE (T) 0.25A± CULVERT (T) DRIVE (T) SLOPE (T) 0.01A±						HWY EASE. RTE. 100B 24′ GRAVEL M.P. 0737 300 S.F. ±

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
24	8,12	PARCEL NO. 11 CLARK. CHANGE SLOPE (T) AT STA. REV. 191+18 RT. ~ REV. 191+35 RT. TO INSTALL (T), 'OVERFLOW PIPE.' PER C.O. 8475.	12-15-93	M.J.R.	L.W.B.
25	7,12 16	PARCEL NO. 9 COWAN & MARCH. ADD CULVERT (T) AT STA. 184+15 RT. ~ 184+63 RT. PER C.O. 8477.	12-17-93	M.J.R.	L.W.B.
26	5,14 18	PARCEL NO. 4 BIGELOW & SMITH. REPLACE EXISTING LOGGING ROAD. ADD 12′ DRIVE AT STA. TH 2 34+88 RT. ADD CULVERT (T) AT STA. TH 2 34+50 RT. ~ TH 2 34+75 RT. PER C.O. 8423.	12-17-93	M.J.R.	L.W.B.
27	10,12 13	CREATE NEW PARCEL NO. 19 TOWN OF MORETOWN. PARCEL 19A: T.H. 66 0+92 CL. ~ T.H. 66 2+53 CL., APPROACH (T). PARCEL 19B: REV. 206+30 LT. ~ REV. 206+73 RT., ALL R. T. & I., T.H. 12; REV. 206+48 RT. ~ REV. T.H. 12 25+80 CL., APPROACH (T). PARCEL 19C: REV. 206+57 LT. ~ T.H. 2 31+48 LT., ALL R. T. & I. PER C.O. 8489.	01-17-94	C.C.P.	L.W.B.
28	8	PARCEL NO. 13 GREEN MOUNTAIN POWER. CHANGE ENDING STATION ON 'ALL R. T. & I.' TO WATERLINE FROM REV. 193+40 RT. TO REV. 193+40 LT. PER C.O. 8490.	01-17-94	C.C.P.	L.W.B.
29	4,11	PARCEL NO. 1 TURNER. ADD EXCEPT & RESERVE FOR WATERLINE AT STATION 164+72 RT. ~ 164+75 RT. PER C.O. 8492.	01-17-94	C.C.P.	L.W.B.
30	10,14	PARCEL NO. 19 TOWN OF MORETOWN. ON PARCEL 19B, CHANGE ENDING STA. FOR 'ALL R. T. & I.' TO 206+82 LT. CHANGE ENDING STA. FOR 'APPROACH (T)' FROM 25+80 CL. TO 25+80 LT. ON PARCEL 19C, ADD 'APPROACH (T)' AT STA. TH 2 30+76 LT. ~ TH 2 37+25 CL. PER C.O. 8499.	02-07-94	C.C.P.	L.W.B.
31	4,11 12,15 16	PARCEL NO. 2 SCRIBNER. DELETE DRIVE (T) AT STA. REV. 186+94 LT. ADD DRIVE (T) AT STA. 180+00 LT. DUE TO DRIVE RELOCATION. PER C.O. 8566.	06-22-94	C.C.P.	L.W.B.
32	11	PARCEL NO. 4 BIGELOW. ADD NOTE FOR WOVEN WIRE GATE AT STA. 169+55 RT. 16′ WIDE.	09-16-94	M.J.R.	L.W.B.
	13	ADD NOTE FOR WOVEN WIRE GATE AT REV. STA. 198+50 RT. 16′ WIDE.			
	14	ADD NOTE FOR WOVEN WIRE GATE AT TH 2 34+88 RT. 16′ WIDE. PER C.O. 8540.			

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ACCT.prop
/prop/78el32/rel32d.dgn
DATE PLOTTED 8-MAR-1995
78el32d4.i

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PRESENT R.O.W.
TAKING WITHOUT ACCESS
P L 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 SR SLOPE RIGHTS
P L PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

REVISED 02-21-95

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D. PLANS & TITLES

R.O.W. PLANS
MORETOWN
RSEGC-RS 0167(9)
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SHEET 7 OF 20

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
10A	AGOSTA, NEVIO E.	12,16	REV. 188+37 LT.	REV. 190+40 LT.	0.03A±			WD	02-26-94	MORETOWN	52	368-369	1504 S.F.±
			REV. 189+57 LT.				DRIVE (T)						24' GRAVEL M.P. 0747
10B			REV. 188+37 LT.	REV. 190+40 LT.	0.11A±		ALL R. T. & I.						VT. 100B
11A	CLARK, LARRY R. & KIMBERLEE S.	12,16	REV. 188+41 RT.	REV. 191+37 RT.	0.19A±			WD	03-09-94	MORETOWN	52	374-375	
			REV. 188+42 RT.	REV. 191+36 RT.			ALL R. T. & I.						WATERLINE
			REV. 189+70 RT.	REV. 189+94 RT.			SLOPE (T) 0.01A±						375 S.F.±
			REV. 190+86 RT.				DRIVE (T)						10' GRAVEL M.P. 0750
			REV. 191+18 RT.	REV. 191+35 RT.			INSTALL (T)						OVERFLOW PIPE
11B			REV. 188+40 LT.	REV. 191+39 LT.	0.17A±		ALL R. T. & I.						HWY EASE. RTE. 100B
12A	AYRES, ROBERT A. & JODY B.	12,16	REV. 190+40 LT.	REV. 192+50 LT.	0.02A±			WD		MORETOWN			725 S.F.±
			REV. 191+21 LT.	REV. 191+32 RT.			ALL R. T. & I.						WATERLINE
			REV. 191+21 LT.	REV. 191+32 RT.									SLEEVE
			REV. 191+59 LT.				DRIVE (T)						12' GRAVEL M.P. 0751
12B			REV. 190+40 LT.	REV. 192+50 LT.	0.12A±		ALL R. T. & I.						HWY EASE. RTE. 100B
13A	GREEN MOUNTAIN POWER CORPORATION	12,13	REV. 191+32 RT.	REV. 204+30 RT.	2.08A±			WD		MORETOWN			
		14,16	REV. 192+95 RT.	REV. 193+40 RT.			ALL R. T. & I.						WATERLINE
		17,18	REV. 193+70 RT.				DRIVE (T)						30' GRAVEL M.P. 0754
			REV. 193+70 RT.	REV. 197+10 RT.			CONST. (T) 0.08A±						3500 S.F.±
			REV. 193+85 RT.	REV. 198+40 RT.			SLOPE (P) 0.39A±						
			REV. 198+50 RT.										DRIVE 16' GRAVEL M.P. 0763
			REV. 200+08 RT.	REV. 200+90 RT.			CONST. (T) 0.01A±						600 S.F.±
			REV. 200+45 RT.	REV. 204+26 RT.			SLOPE (P) 0.23A±						
			REV. 198+00 RT.	REV. 198+56 RT.			CONST. (T) 0.01A±						500 S.F.±

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
33	9,12	PARCEL NO. 13 GREEN MT. POWER. CREATE NEW PARCEL 13G; CONST. (T) FROM REV. 193+57 RT. ~ REV. 196+37 RT., 4100 S.F.±, 0.09A±. SLOPE (P) FROM REV. 193+66 RT. ~ REV. 197+06 RT.; 0.90A±. BY OPTION ONLY. CREATE NEW PARCEL 13H. CONST. (T) FROM REV. 198+22 RT. ~ REV. 198+55 RT.; 200 S.F.±; 0.01A±. BY OPTION ONLY.	11-15-94	M.J.R.	L.W.B.
34	6,13	PARCEL NO. 4 BIGELOW. CREATE NEW PARCEL 4K CONST. (T) FROM REV. 196+32 RT. ~ REV. 198+35 RT.; 2750 S.F.±; 0.06A±. SLOPE (P) FROM REV. 196+37 RT. ~ REV. 198+22 RT.; 0.28A±. BY OPTION ONLY.	11-15-94	M.J.R.	L.W.B.
35	6.13	PARCEL NO. 4K BIGELOW. REMOVE RIGHTS FOR SLOPE (P) & CONST. (T). MAKE AREA ENTIRE FEE ACQUISITION; 0.34A±. PER C.O. 8647.	02-21-95	M.J.R.	L.W.B.
36	6,13 14	PARCEL NO. 4 BIGELOW TRUST. CREATE NEW SUB-PARCELS 4L-4Q. PER C.O. 8762.	01-19-96	M.J.R.	L.W.B.
37	9,12 13	PARCEL NO. 13 GREEN MT. POWER. REMOVE SUB PARCELS 13G & 13H. RECREATE SLOPE LIMIT THAT WAS PROPOSED AT TIME OF CONDEMNATION. PER C.O. 9012. **MYLARS TO LARRY WHEELER 10-27-99**	12-04-98	M.J.R.	L.W.B.

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ACCT.prop
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DATE PLOTTED 4-DEC-1998
78el32d5.i

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——— — ———	PRESENT R.O.W.
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—///— P L —///—	TAKING WITHOUT ACCESS ALONG PROPERTY LINE
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LEGEND

C&T (P)	CLEARING & TRIMMING
CZ (P)	CLEAR ZONE
CONST. (T)	CONSTRUCTION EASEMENT
SR SR	SLOPE RIGHTS
P L	PROPERTY LINE
△ △ △	TOP OF CUT
⊙ ⊙ ⊙	TOE OF SLOPE

REVISED 12-04-98

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D, PLANS & TITLES

R.O.W. PLANS
MORETOWN
RSEGC-RS 0167(9)
Sheet 24 of 243
SHEET 8 OF 20

STATE OF VERMONT
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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
13B	GREEN MOUNTAIN POWER CORPORATION (CONTINUED FROM PREVIOUS SHEET)		REV. 192+50 LT.	REV. 205+85 LT.	0.70A±			WD		MORETOWN			
			REV. 192+69 LT.										DRIVE 35′ GRAVEL M.P. 0753
			REV. 194+00 LT.				DRAINAGE (P)						
			REV. 197+65 LT.										STEEL TOWER
			REV. 198+13 LT.	REV. 199+55 LT.			DRIVE (T)						
			REV. 199+44 LT.				DRAINAGE (P)						
			REV. 201+80 LT.				DRAINAGE (P)						
			REV. 205+32 LT.	REV. 205+40 LT.			CULVERT (P)						
			REV. 205+40 LT.				DRAINAGE (P)						
13C			REV. 208+00 LT.	REV. 211+22 RT.	0.37A±								
			REV. 207+50 LT.	REV. 209+65 LT.			EASE. (T) 0.04A±						1800 S.F.±
			REV. 207+70 LT.	REV. 209+45 LT.			SLOPE (P) 0.06A±						2680 S.F.±
			REV. 208+50 LT.				DRAINAGE (P)						
			REV. 210+00 LT.				DRAINAGE (P)						
13D			REV. 191+37 RT.	REV. 207+28 LT.	1.10A±		ALL R. T. & I.						HWY EASE. RTE. 100B
			REV. 206+30 LT.	REV. 206+38 LT.			CULVERT (P)						
			REV. 206+38 LT.				DRAINAGE (P)						
13E			REV. 206+57 LT.	TH 2 34+44 LT.	0.16A±		ALL R. T. & I.						HWY EASE. TH 2
			REV. 207+40 LT.				DRAINAGE (P)						
			TH 2 33+50 LT.				DRAINAGE (P)						
			TH 2 33+75 LT.				DRAINAGE (P)						
			TH 2 33+75 LT.	TH 2 34+55 LT.			EASE. (T) 0.01A±						650 S.F.±
			TH 2 33+90 LT.	TH 2 34+50 LT.			SLOPE (P) 0.01A±						560 S.F.±
			TH 2 34+30 LT.	TH 2 34+40 LT.			CULVERT (P)						
			TH 2 34+30 LT.				DRAINAGE (P)						
13F													UTILITY
14A	HAYES, BILLIE M. & ERWIN O.	13,17	REV. 204+26 RT.	REV. 206+30 RT.	0.38A±			WD	02-11-94	MORETOWN	52	370- 371	
			REV. 204+26 RT.	REV. 205+62 RT.			SLOPE (P) 0.12A±						
			REV. 204+26 RT.	REV. 205+85 RT.			EASE. (T) 0.04A±						1800 S.F.±
14B			REV. 204+30 RT.	REV. 206+62 LT.	0.14A±		ALL R. T. & I.						HWY. EASE. RTE. 100B
14C			REV. 206+30 RT.	REV. 206+57 LT.	0.06A±		ALL R. T. & I.						HWY. EASE. TH 12 2775 S.F.±
14D			REV. 206+30 RT.	TH 12 25+80 CL.	0.24A±		ALL R. T. & I.						HWY. EASE. TH 12

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

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ACCT.prop
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78el32d6.i

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REVISED 12-04-98

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
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R. O. W. PLANS
MORETOWN
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Sheet 25 of 243
SHEET 9 OF 20

STATE OF VERMONT
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TABLE OF PROJECT PROPERTY ACQUISITION

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15	CHURCH STREET COOPERATIVE WATER CO., INC.	13,17	REV. 206+30 RT.	REV. 207+28 LT.			ALL R. T. & I.	QCD	03-23-94	MORETOWN	52	389-390	WATERLINE
16	MIDDLESEX NON-PROFIT WATER SYSTEM	12,16	REV. 192+95 RT.	REV. 193+40 LT.			ALL R. T. & I.	QCD	04-20-94	MORETOWN	53	59-60	WATERLINE
17	VERMONT ELECTRIC POWER CORPORATION												UTILITY
18	NEW ENGLAND TELEPHONE COMPANY												UTILITY
19A	TOWN OF MORETOWN	12,13 16,17	TH 66 0+92 CL.	TH 66 2+53 CL.			APPROACH (T)						T.H. 66
19B			REV. 206+30 LT. REV. 206+48 RT.	REV. 206+82 RT. REV. TH 12 25+80 LT.	0.11A±		ALL R. T. & I. APPROACH (T)						T.H. 12 T.H. 12
19C			REV. 206+57 LT. TH 2 30+76 LT.	TH 2 31+48 LT. TH 2 37+25 CL.	0.46A±		ALL R. T. & I. APPROACH (T)						T.H. 2 T.H. 2
	MAINTENANCE AGREEMENT AREA NO. 1		TH 66 0+12 CL.	TH 66 0+92 CL.						MORETOWN			TH 66 80′
	MAINTENANCE AGREEMENT AREA NO. 2		REV. TH 12 20+05 CL.	REV. TH 12 20+80 CL.						MORETOWN			TH 12 75′
	MAINTENANCE AGREEMENT AREA NO. 3		TH 2 29+92.68 CL.	TH 2 30+73 CL.						MORETOWN			TH 2 80.32′
	RELINQUISHMENT NO. I		REV. TH 12 20+80 CL.	REV. TH 12 25+80 CL.						MORETOWN			TH 12 500′
	RELINQUISHMENT NO. II		TH 2 30+73 CL.	TH 2 37+68 RT.						MORETOWN			TH 2 695′

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

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ACCT.prop
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DATE PLOTTED 07-FEB-1994
78el32d7.i

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

REVISED 01-17-94

APPROVED: LAWRENCE BLISS L.S. DATE: 12-16-91
AGENT D. PLANS & TITLES

R.O.W. PLANS

MORETOWN
RSEGC-RS 0167(9)
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SHEET 10 OF 20

09-15-94	REVISION 32
06-22-94	REVISION 31
01-17-94	REVISION 29
12-02-93	REVISION 23
08-17-93	REVISION 19
06-16-93	REVISION 12,13,14,17

0167009 201 1805 78E132 J.D.P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. /prop/78el32/rel32zzzz.dgn
IPARM FILE rel32llr.1 DATE PLOTTED 26-APR-2000

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 11 OF 20 SHEETS
SHEET 27 OF 243 SHEETS

DRIVE CURVE DATA
Δ = 37°-57'-33" LT.
D = 19°-06'
R = 300'
T = 103.18'
L = 195.14'
E = 17.25'

EXCAVATION OF SURFACES AND PAVEMENTS
181+75 RT. ~ 185+00 RT.
AREA TO BE TOPSOILED, SEEDED AND MULCHED

STEEL BEAM GUARD RAIL
179+00 LT. ~ 179+50 LT.
180+46 LT. ~ REV. 186+65.5 LT.
REV. 191+62.5 RT. ~ REV. 192+87.5 RT.
REV. 193+68.5 LT. ~ REV. 195+00 LT.

SCARIFYING PAVEMENT
179+00 RT. ~ 181+75 RT.
183+00 RT. ~ 185+25 RT.

CUT TO FILL TRANSITION
REV. 184+66 ~ REV. 185+42 ℄

REMOVAL AND DISPOSAL OF GUARD RAIL
REV. 192+69 RT. ~ REV. 193+20 RT.
REV. 193+70 LT. ~ REV. 195+00 LT.

SURV.CURVE #1 DATA
Δ = 07°-58'-03" LT.
D = 1°-30'
R = 3819.72'
T = 266.01'
L = 531.17'
E = 9.25'
BANK = 0.030 FT/FT

BEGIN MAINT. AGREE. AREA NO. 1
TH 66 0+12 ℄

CONSTRUCT DRIVE
SURV. 180+00 LT. (GRAVEL)
SURV. 183+25 RT. ~ SURV. 184+50 RT.
(GRAVEL PARKING AREA)
SURV. 184+40 RT. (GRAVEL)
REV. 186+59 RT. (PAVED)
REV. 189+57 LT. (GRAVEL)
REV. 190+90 RT. (GRAVEL)
REV. 191+62 LT. (GRAVEL)
REV. 192+69 LT. (GRAVEL)
REV. 193+70 RT. (GRAVEL)

MODIFIED ECCENTRIC LOADED TERMINAL (MELT)
179+50~179+87.5 LT.
180+08.5~180+46 LT.
REV. 186+65.5~REV 187+03 LT.
REV. 191+25~REV 191+62.5 RT.
REV. 192+87.5~REV 193+25 RT.
REV. 193+31~REV 193+68.5 LT.

GRUBBING MATERIAL
AT INLET OF 60" CULVERT
((SEE SHEETS 66,67 AND 68))

SURV.CURVE # 2 DATA
Δ = 13°-22'-04" LT.
D = 2°-00'
R = 2864.79'
T = 335.72'
L = 668.39'
E = 19.60'

REV.CURVE # 2 DATA
Δ = 15°-21'-08" LT.
D = 2°-15'-00"
R = 2546.48'
T = 343.22'
L = 682.32'
E = 23.03'
FULL BANK = 0.042 FT / FT

CONSTRUCT APPROACH
181+71.10 RT (TH 66)

FOR DRAINAGE NOTES SEE ROW SHEET 16 OF 20 SHEETS

TH 66 CURVE DATA
Δ = 54°-00'-00" RT.
D = 25°-48'
R = 222.08'
T = 113.16'
L = 209.30'
E = 27.17'
BANK = 0.021FT / FT

END MAINT. AGREE. AREA NO. 1
TH 66 0+92 ℄ (LENGTH 80')

EROSION MATTING (ON SLOPE)
(ABOVE RETAINING WALL)
REV. 193+93.73 ~ REV. 195+00 RT.

GEOTEXTILE UNDER STONE FILL
AT INLET OF 60" CULVERT
((SEE SHEETS 66,67 AND 68))

TREATED TIMBER CURB
179+00 LT. ~ 179+50 LT.
180+46 LT. ~ 185+50 LT.

RELOCATE MAILBOX
SURV. 181+60 RT. (MULTIPLE)
REV. 187+04 LT. (SINGLE)
REV. 189+47 LT. (SINGLE)
REV. 189+51 LT. (SINGLE)
REV. 192+00 LT. (SINGLE)

○ DENOTES TREE OR STUMP REMOVAL

FOR R.O.W. USE ONLY

0 50 100 200 300
SCALE IN FEET

DATUM
VERTICAL ______
HORIZONTAL ______

11-15-94 REVISION 33	12-15-93 REVISION 24
06-22-94 REVISION 31	08-17-93 REVISION 20

01-17-94 REVISION 27
12-17-93 REVISION 25

0167009 201 1805 78E132 J.D.P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. /prop/78el32/rel32zzz.dgn
IPARM FILE rel3212r.1 DATE PLOTTED 26-APR-2000

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 12 OF 20 SHEETS
SHEET 28 OF 243 SHEETS

REV. CURVE #3 PI 201+23.23 = 201+20.75

SURV. CURVE #3 PI 201+47.39 = 201+46.36

SURV. CURVE # 4 DATA
△ = 67°-13'-03" LT.
D = 9°
R = 636.62'
T = 423.11'
L = 746.86'
E = 127.78'

REV. CURVE # 4 DATA
△ = 71°-28'-02" LT.
D = 8°-30'
R = 674.07'
T = 484.97'
L = 840.79'
E = 156.33'
FULL BANK = 0.063 FT/FT

BEGIN MAINT. AGREE AREA NO. 3
STA. TH 2 29+92.68 ℄ (LENGTH 80.32')

SURV. CURVE # 3 DATA
△ = 11°-45'-00" RT.
D = 4°-00'
R = 1432.40'
T = 147.39'
L = 293.75'
E = 7.56'

REV. CURVE # 3 DATA
△ = 17°-59'-03" RT.
D = 6°-00'
R = 954.93'
T = 151.11
L = 299.74'
E = 11.88'
FULL BANK=0.077 FT/FT

FOR DRAINAGE NOTES SEE
ROW SHEET 17 OF 20 SHEETS

BEGIN MAINT. AGREE. AREA NO. 2
STA. REV. TH 12 20+05 ℄ LENGTH 75'

END MAINT. AGREE. AREA NO. 2
BEGIN RELINQUISHMENT NO. I
STA. REV. TH 12 20+80 ℄ LENGTH 500'

END MAINT. AREA NO. 3
BEGIN RELINQUISHMENT NO. II
STA. TH 2 30+73 ℄ (LENGTH 695')

END RELINQUISHMENT NO. I
STA. REV. TH 12 25+80 ℄

TH 12 SURV. CURVE #1 DATA
△ = 60°-17'-30" RT.
D = 27°-01'-35"
R = 212.00'
T = 123.12'
L = 223.09'
E = 33.16'

TH 12 SURV. CURVE #2 DATA
△ = 74°-57'-35" LT.
D = 29°-59'-52"
R = 191.00'
T = 146.45'
L = 249.87'
E = 49.68'

TH 12 REV. CURVE #1 DATA
△ = 79°-00'-21" RT.
D = 76°-23'-40"
R = 75.00'
T = 61.83'
L = 103.42'
E = 22.20'

TH 12 REV. CURVE #2 DATA
△ = 59°-31'-08" LT.
D = 28°-38'-52"
R = 200.00'
T = 114.35'
L = 207.76'
E = 30.38'

TH 12 REV. CURVE #3 DATA
△ = 34°-09'-18" LT.
D = 28°-38'-52"
R = 200.00'
T = 61.44'
L = 119.22'
E = 9.23'

FOR R.O.W. USE ONLY

0 50 100
SCALE IN FEET

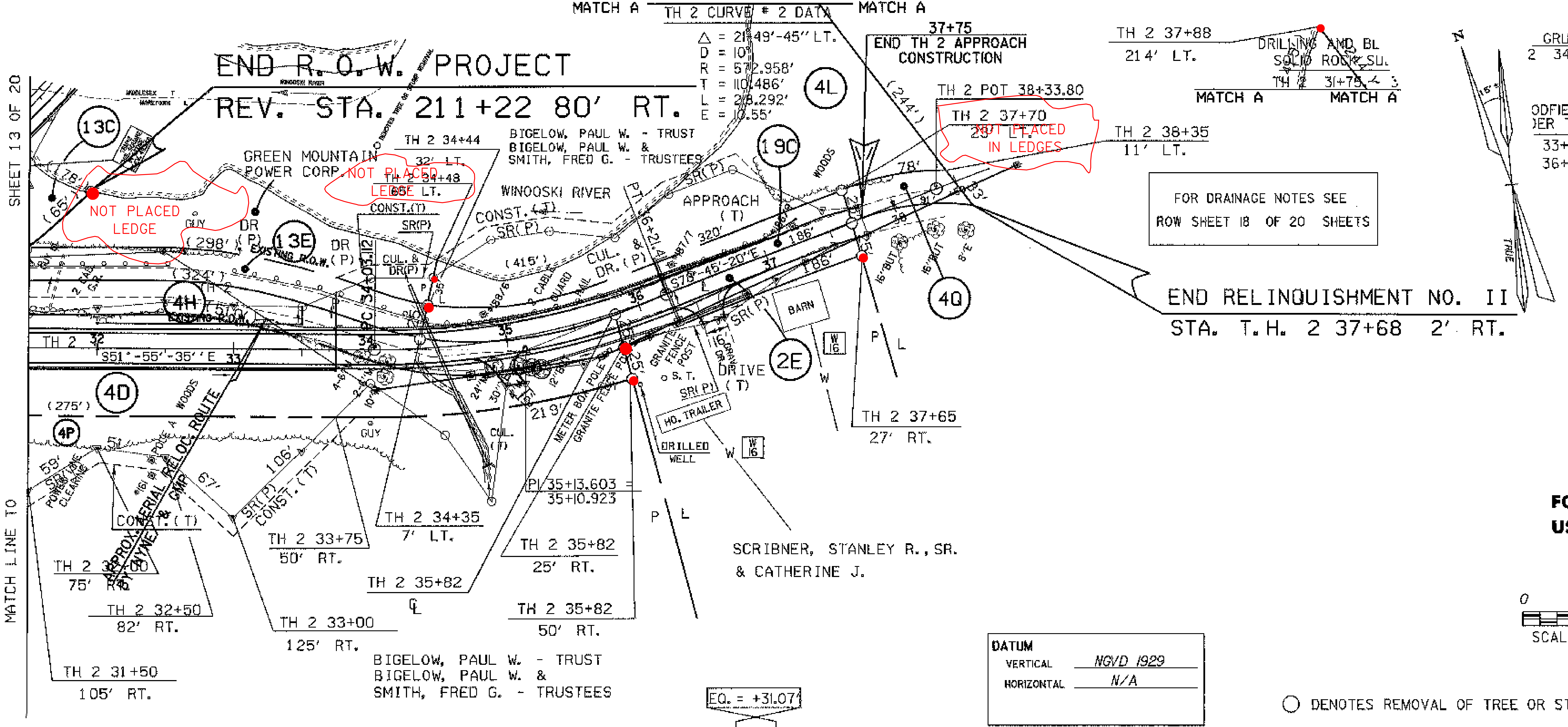
DATUM
VERTICAL
HORIZONTAL

01 67009 201 1805 78E132 J. D. P.

01-19-98	REVISION 38
02-21-98	REVISION 35
11-15-94	REVISION 33 & 34
09-15-94	REVISION 32
01-17-94	REVISION 27
12-02-93	REVISION 23
06-01-93	REVISION 22
08-16-93	REVISION 14 & 15
12-11-92	REVISION 11

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. /prop/78e132/re132zzz.dgn
IPARM FILE re1321 3r.1 DATE PLOTTED 26-APR-2000

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 13 OF 20 SHEETS
SHEET 29 OF 243 SHEETS



FOR DRAINAGE NOTES SEE
ROW SHEET 18 OF 20 SHEETS

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

GRUBBING MATERIAL
2 34+00 LT. ~ 37+25 LT.

ODFIED ECCENTRIC
)ER TERRMINAL(MELT)
33+25 ~ 33+62.5 LT.
36+87.5 ~ 37+25 LT.

EXCAVATION OF SURFACES
AND PAVEMENTS
((AREA TO BE TOPSOILED, SEEDED
AND MULCHED))
OLD TH 2 : SURV. 31+50 ~ 33+75 LT.

CONSTRUCT DRIVE
TH 2 34+88 RT. (GRAVEL)
TH 2 36+50 RT. (GRAVEL)

DRIVE GATE FOR WOVEN WIRE FENCE
TH 2 34+88 RT. (16′ WIDE)
(2 - 8′ GATES W/ OPENING IN MIDDLE)

REMOVAL AND DISPOSAL OF
GUARD RAIL
TH 2 31+50 ~ 32+54 LT.
TH 2 33+00 ~ 37+07 LT.

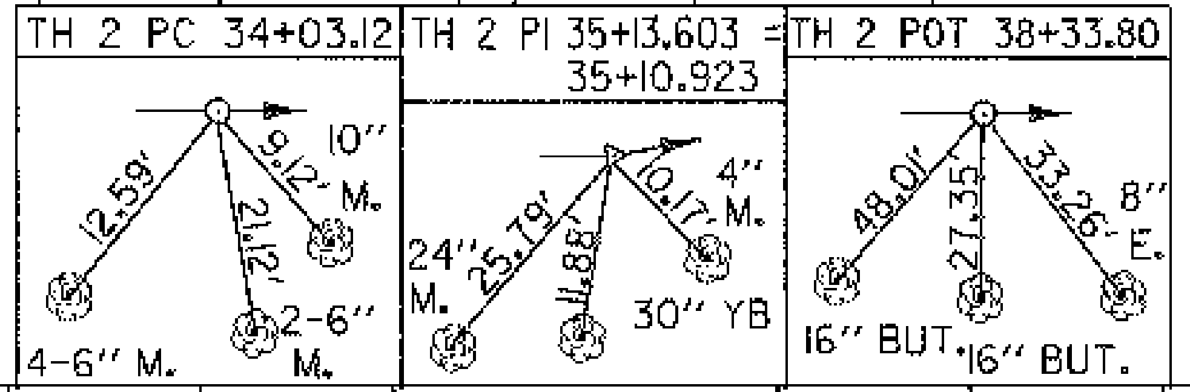
REMOVAL OF EXISTING FENCE
TH 2 31+50 ~ 35+00 RT.

FOR R.O.W.
USE ONLY

STEEL BEAM GUARD RAIL
TH 2 33+62.5 ~ 36+87.5 LT.

09-15-94	REVISION 32			
12-17-93	REVISION 26			
12-02-93	REVISION 23		01-19-96	REVISION 36

TH 2 PC 34+03.12
TH 2 PI 35+13.603 = 35+10.923
TH 2 POT 38+33.80



○ DENOTES REMOVAL OF TREE OR STUMP

0167009 201 1805
78E132 J. D. P.

SURVEYED BY	NYE	DATE	12/84
DRAWN BY	MCCLURE	DATE	5/90
SQUAD LEADER	BRUCE BOYD		
DESIGN FILE NO.	/prop/78e132/rel32zzz.dgn		
IPARM FILE	rel3214r.t	DATE PLOTTED	26-APR-2000

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 14 OF 20 SHEETS
SHEET 30 OF 243 SHEETS

06-22-94	REVISION 31
08-17-93	REVISION 19
06-16-93	REVISION 12,13,14,17

0167009 201 1805 78E132 J.D.P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. /prop/78el32/rel32zzz.dgn
IPARM FILE rel32drl.1 DATE PLOTTED 24-JUN-1994

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 15 OF 20 SHEETS

Sheet 31 of 243

DRIVE CURVE DATA
Δ = 37°-57'-33" LT.
D = 19°-06'
R = 300'
T = 103.18'
L = 195.14'
E = 17.25'

EXCAVATION OF SURFACES AND PAVEMENTS
182+00 RT. ~ 185+00 RT.
AREA TO BE TOPSOILED, SEEDED AND MULCHED

STEEL BEAM GUARD RAIL
SURV. 179+00 LT. ~ REV. 186+75 LT.
REV. 191+50 RT. ~ REV. 193+00 RT.
REV. 193+50 LT. ~ REV. 195+00 LT.

SCARIFYING PAVEMENT
179+00 RT. ~ 182+00 RT.
183+00 RT. ~ 185+00 RT.

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
REV. 192+50 ~ REV. 193+50

REMOVAL AND DISPOSAL OF GUARD RAIL
REV. 193+70 LT. ~ REV. 195+00 LT.

CONSTRUCT DRIVE
SURV. 180+00 LT.
SURV. 183+25 RT. ~ SURV. 184+50 RT.
(GRAVEL PARKING AREA)
SURV. 184+40 RT. (GRAVEL)
REV. 186+59 RT. (PAVED)
REV. 189+57 LT. (GRAVEL)
REV. 190+86 RT. (GRAVEL)
REV. 191+59 LT. (GRAVEL)
REV. 192+69 LT. (GRAVEL)
REV. 193+70 RT. (GRAVEL)

SURV.CURVE # 2 DATA
Δ = 13°-22'-04" LT.
D = 2°-00'
R = 2864.79'
T = 335.72'
L = 668.39'
E = 19.60'

REV.CURVE # 2 DATA
Δ = 15°-21'-08" LT.
D = 2°-15'-00"
R = 2546.48'
T = 343.22'
L = 682.32'
E = 23.03'
FULL BANK = 0.042 FT / FT

FOR DRAINAGE REFERENCE
ONLY

SURV.CURVE #1 DATA
Δ = 07°-58'-03" LT.
D = 1°-30'
R = 3819.72'
T = 266.01'
L = 531.17'
E = 9.25'
BANK = 0.030 FT / FT

TH 66 CURVE DATA
Δ = 54°-00'-00" RT.
D = 25°-48'
R = 222.08'
T = 113.16'
L = 209.30'
E = 27.17'
BANK = 0.021FT / FT

REMOVING AND REPLACING MAIL BOXES
SURV. 181+60 RT.
REV. 187+04 LT.
REV. 189+47 LT.
REV. 189+51 LT.
REV. 192+00 LT.

STONE FILL, TYPE II
(FOR SLOPE STABILIZATION)
REV. 194+30 RT. ~ REV. 195+00 RT.

TREATED TIMBER CURB
179+00 LT. ~ 184+25 LT.

○ DENOTES TREE OR STUMP REMOVAL

DATUM
VERTICAL ______
HORIZONTAL ______

FOR ROW
USE ONLY

06-22-94	REVISION 31
12-17-93	REVISION 25
08-17-93	REVISION 20

0167009 201 1805 78E132 J.D.P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. /prop/78el32/rel32zzz.dgn
IPARM FILE rel32dr2.1 DATE PLOTTED 24-JUN-1994

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 16 OF 20 SHEETS

SURV. CURVE # 4 DATA
△ = 67°-13'-03" LT.
D = 9°
R = 636.62'
T = 423.11'
L = 746.86'
E = 127.78'

REV. CURVE # 4 DATA
△ = 71°-28'-02" LT.
D = 8°-30'
R = 674.07'
T = 484.97'
L = 840.79'
E = 156.33'
FULL BANK = 0.063 FT/FT

SURV. CURVE # 3 DATA
△ = 11°-45'-00" RT.
D = 4°-00'
R = 1432.40'
T = 147.39'
L = 293.75'
E = 7.56'

REV. CURVE # 3 DATA
△ = 17°-59'-03" RT.
D = 6°-00'
R = 954.93'
T = 151.11
L = 299.74'
E = 11.88'
FULL BANK = 0.077 FT / FT

FOR DRAINAGE REFERENCE ONLY

EXTRA DEPTH OF SUBBASE
REV. 210+00 ~ 210+53.82

TRA DEPTH OF BASE COURSE OF BIT. CONC. PAVE. (5")
EV. 210+00 ~ REV. 210+53.82

MOVAL OF EXISTING FENCE
TH 2 30+25 ~ 31+50 RT.

REMOVAL AND DISPOSAL OF GUARD RAIL
REV. 195+00 LT. ~ REV. 199+40 LT.
REV. 199+30 LT. ~ REV. 200+10 LT.
REV. 200+25 LT. ~ REV. 206+60 LT.
REV. 206+90 LT. ~ REV. 207+10 LT.
TH 2 31+00 ~ 31+50 LT.

EXCAVATION OF SURFACES AND PAVEMENTS
AREA TO BE TOPSOILED, SEEDED AND MULCHED
REV. 205+50 LT. ~ REV. 207+00 LT.
TH 2 30+50 ~ 31+50 LT.

SCARIFYING PAVEMENT
REV. 198+50 LT. ~ 201+00 LT.

CONSTRUCT PAVED WALK
REV. 206+78 LT.

GRANULAR BORROW
REV. 210+21 ~ REV. 210+53

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
REV. 195+75 ~ REV. 196+25
REV. 200+00 ~ 204+50
REV. 205+50 ~ 207+00
TH 12 REV. 21+59 ~ REV. 22+30

STEEL BEAM GUARD RAIL
REV. 195+00 LT. ~ REV. 206+75 LT.
REV. 206+80 LT. ~ REV. 209+58 LT.
TH 2 30+23.5 ~ 30+48.5 LT.

GUARD RAIL APPROACH SECTION, TYPE I
REV. 209+58 LT. ~ REV. 210+08 LT.
TH 2 30+23.5 LT. ~ 210+53.82 RT.

TREATED TIMBER CURB
REV. 207+30 LT. ~ REV. 210+08 LT.

CONSTRUCT DRIVE
REV. STA. 198+50 RT. (16' GRAVEL)
REV. TH 12 25+75 RT. (GRAVEL)

CONSTRUCT PARKING AREA
REV. 205+90 LT. ~ REV. 207+05 LT.

PLANK RAIL
REV. 206+62 LT. ~206+97 LT.
REV. 207+55 LT. ~208+90 LT.

PLANK RAIL @ MIDDLESEX END OF BRIDGE IS BRS-0167(11) QUANTITY

STONE FILL, TYPE II
(FOR SLOPE STABILIZATION)
REV. 195+00 RT. ~ REV. 197+50 RT.
REV. 205+00 RT. ~ REV. 205+50 RT.

○ DENOTES REMOVAL OF TREE OR STUMP

TH 12 SURV. CURVE #1 DATA
△ = 60°-17'-30" RT.
D = 27°-01'-35"
R = 212.00'
T = 123.12'
L = 223.09'
E = 33.16'

TH 12 SURV. CURVE #2 DATA
△ = 74°-57'-35" LT.
D = 29°-59'-58"
R = 190.99'
T = 146.45'
L = 249.87'
E = 49.68'

TH 12 REV. CURVE #1 DATA
△ = 79°-00'-21" RT.
D = 76°-23'-40"
R = 75.00'
T = 61.83'
L = 103.42'
E = 22.20'

TH 12 REV. CURVE #2 DATA
△ = 59°-31'-08" LT.
D = 28°-38'-52"
R = 200.00'
T = 114.35'
L = 207.76'
E = 30.38'

DATUM
VERTICAL ______
HORIZONTAL ______

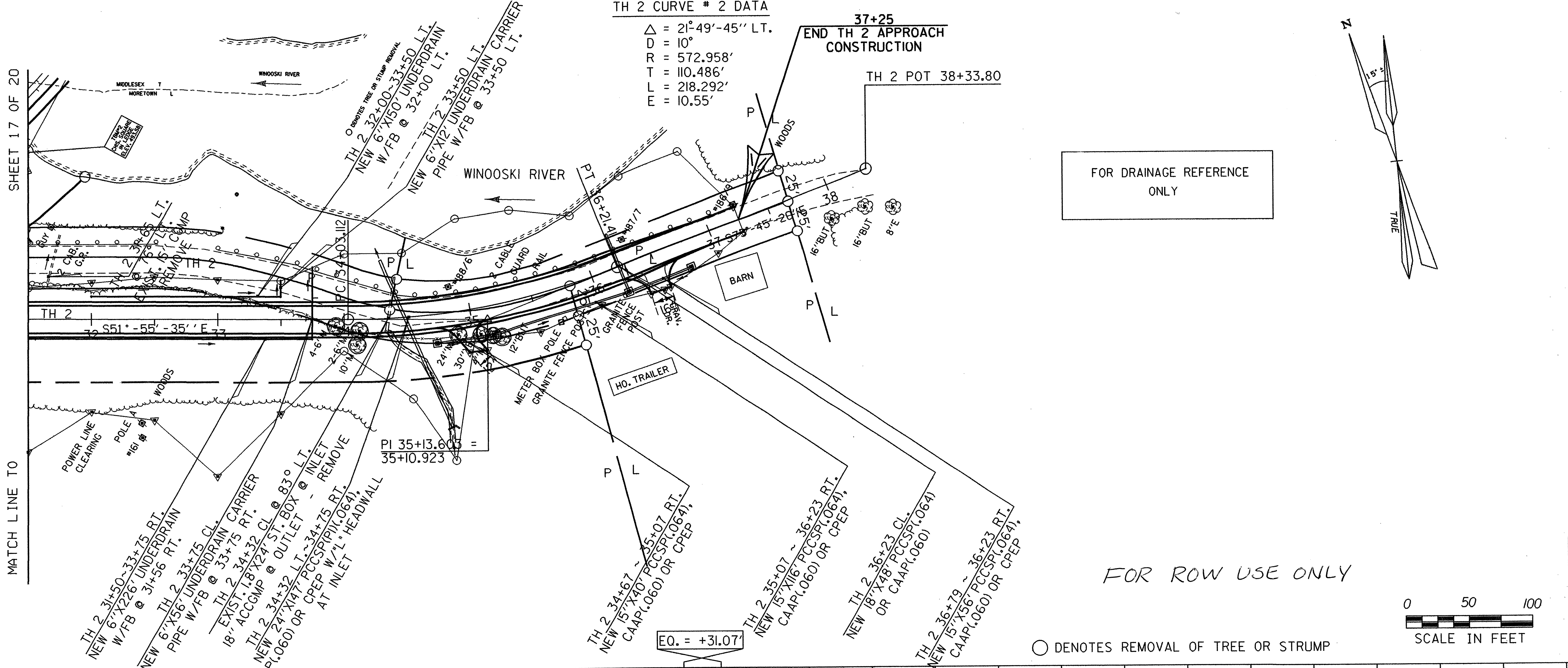
12-02-93	REVISION 23
06-16-93	REVISION 14 & 15

03-8053 1805 78E132 J. D. P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. z#ak170.70J78e132zzz.dgn
IPARM FILE 78e132dr3.1 DATE PLOTTED 16-DEC-1993

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 17 OF 20 SHEETS

Sheet 33 of 243



EXCAVATION OF SURFACES AND PAVEMENTS

AREA TO BE TOPSOILED, SEEDED AND MULCHED
TH 2 31+50 ~ 34+00 LT.

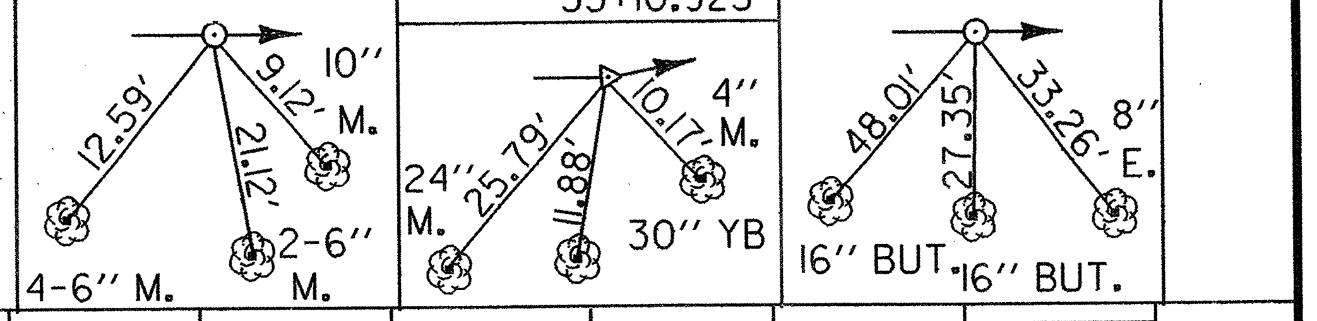
CONSTRUCT DRIVE
TH 2 36+50 RT. (GRAVEL)
TH 2 34+88 RT. (GRAVEL)

REMOVAL AND DISPOSAL OF GUARD RAIL
TH 2 31+50 ~ 32+54 LT.
TH 2 33+00 ~ 37+07 LT.

REMOVAL OF EXISTING FENCE
TH 2 31+50 ~ 35+00 RT.

STEEL BEAM GUARD RAIL
TH 2 33+50 ~ 37+00 LT.

12-17-93	REVISION 26	
TH 2 PC 34+03.12	TH 2 PI 35+13.603 = 35+10.923	TH 2 POT 38+33.80



03-8053 1805
78E132 J.D.P.

SURVEYED BY NYE DATE 12/84
DRAWN BY MCCLURE DATE 5/90
SQUAD LEADER BRUCE BOYD
DESIGN FILE NO. zfal:[70,70]78el32zzz.dgn
IPARM FILE 78el3214r.i DATE PLOTTED 17-DEC-1993

MORETOWN
RS EGC RS 0167(9)
ROW SHEET 18 OF 20 SHEETS

Sheet 34 of 243

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132U DATE PLOTTED 08-MAY-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 40 OF 243 SHEETS

DRIVE CURVE DATA

△ = 37°-57′-33″ LT.
D = 19°-06′
R = 300′
T = 103.18′
L = 195.14′
E = 17.25′

EXCAVATION OF SURFACES AND PAVEMENTS

181+75 RT. ~ ~~185+00 RT.~~ 183+50RT
AREA TO BE TOPSOILED, SEEDED AND MULCHED

STEEL BEAM GUARD RAIL

179+00 LT. ~ 179+50 LT.
58 180+4~~6~~ LT. ~ REV. 186+~~65.5~~ LT. 63
40 REV. 191+6~~2.5~~ RT. ~ REV. 192+~~87.5~~ RT. 86
REV. 193+68.5 LT. ~ REV. 195+00 LT.

SURV. CURVE #1 DATA

△ = 07°-58′-03″ LT.
D = 1°-30′
R = 3819.72′
T = 266.01′
L = 531.17′
E = 9.25′
BANK = 0.030 FT/FT

SCARIFYING PAVEMENT

179+00 RT. ~ 181+75 RT.
183+00 RT. ~ 185+2~~5~~ RT.

CUT TO FILL TRANSITION

REV. 184+66 ~ REV. 185+42 ℄

REMOVAL AND DISPOSAL OF GUARD RAIL

REV. 192+6~~9~~ RT. ~ REV. 193+2~~0~~ RT.
REV. 193+70 LT. ~ REV. 195+00 LT.

CONSTRUCT DRIVE

SURV. 180+00 LT. (GRAVEL) 185+00
SURV. 183+25 RT. ~ SURV. ~~184+50~~ RT.
(GRAVEL PARKING AREA)
SURV. 184+40 RT. (GRAVEL)
~~REV. 186+59 RT. (PAVED)~~
REV. 189+57 LT. (GRAVEL)
REV. 190+90 RT. (GRAVEL)
REV. 191+62 LT. (GRAVEL)
REV. 192+69 LT. (GRAVEL)
REV. 193+70 RT. (GRAVEL)
REV 187+25 LT (GRAVEL)
REV 187+25 LT (PAVED)

GRUBBING MATERIAL

AT INLET OF 60″ CULVERT
((SEE SHEETS 66,67 AND 68))

MODIFIED ECCENTRIC LOADED TERMINAL (MELT)

179+50~179+87.5 LT.
20 180+~~08.5~~~180+4~~6~~ LT. 58
65 REV. 186+~~65.5~~~REV 187+0~~3~~ LT. 01
30 REV. 191+2~~5~~~REV 191+~~62.5~~ RT. 50
86 REV. 192+~~87.5~~~REV 193+2~~5~~ RT. 34
REV. 193+31~REV 193+68.5 LT.

SURV. CURVE # 2 DATA

△ = 13°-22′-04″ LT.
D = 2°-00′
R = 2864.79′
T = 335.72′
L = 668.39′
E = 19.60′

REV. CURVE # 2 DATA

△ = 15°-21′-08″ LT.
D = 2°-15′-00″
R = 2546.48′
T = 343.22′
L = 682.32′
E = 23.03′
FULL BANK = 0.042 FT / FT

CONSTRUCT APPROACH

181+71.10 RT (TH 66)

EROSION MATTING (ON SLOPE)
(ABOVE RETAINING WALL)

REV. 193+93.73 ~ REV. 195+00 RT.

TH 66 CURVE DATA

△ = 54°-00′-00″ RT.
D = 25°-48′
R = 222.08′
T = 113.16′
L = 209.30′
E = 27.17′
BANK = 0.021FT / FT

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

GEOTEXTILE UNDER STONE FILL

AT INLET OF 60″ CULVERT
((SEE SHEETS 66,67 AND 68))

TREATED TIMBER CURB

179+00 LT. ~ 179+50 LT.
180+46 LT. ~ 185+50 LT.

RELOCATE MAILBOX

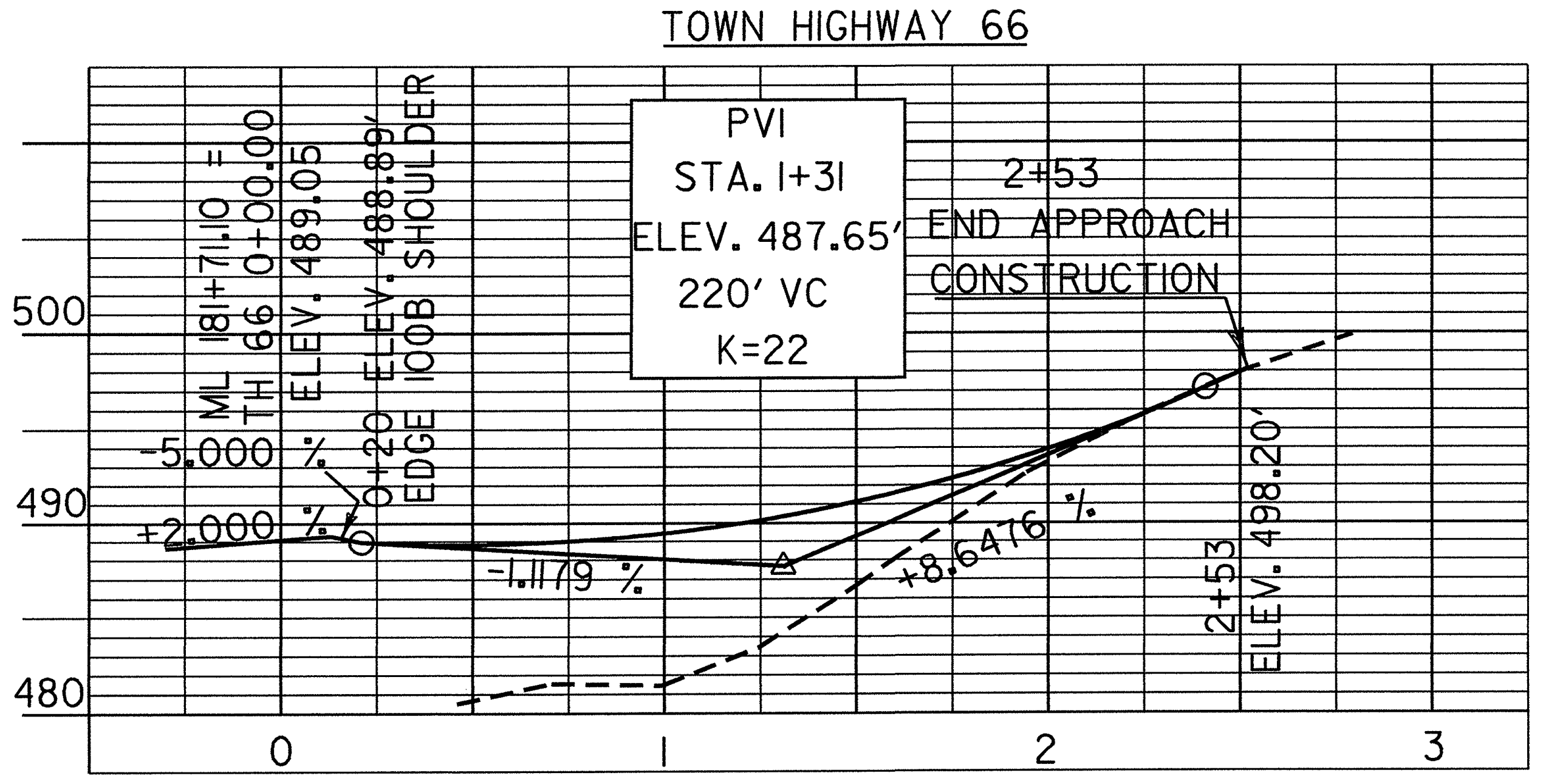
SURV. 181+60 RT. (MULTIPLE)
REV. 187+04 LT. (SINGLE)
REV. 189+47 LT. (SINGLE)
~~REV. 189+51 LT. (SINGLE)~~
191+80 ~~REV. 192+00 LT. (SINGLE)~~
190+50 RT
184+ 59 RT

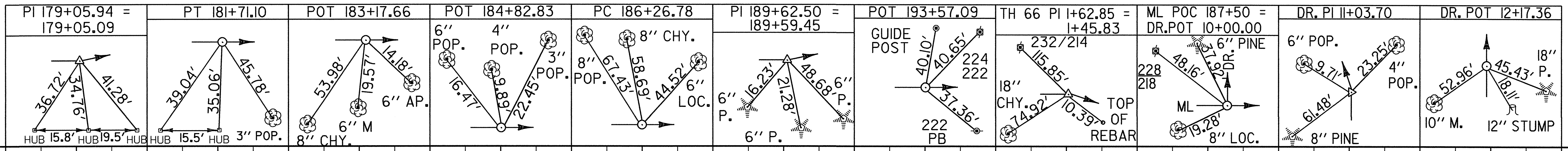
○ DENOTES TREE OR STUMP REMOVAL

0 50 100
SCALE IN FEET

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUADB DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132L2 DATE PLOTTED 01-MAR-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 41 OF 243 SHEETS

TOWN HIGHWAY 66





DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132P2 DATE PLOTTED 16-DEC-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 42 OF 243 SHEETS

CONSTRUCT ACCESS DRIVE
REV. 198+05 LT. ~ REV. 199+30 LT. (APPROXIMATELY)
* NOTE : ACTUAL LOCATION OF PROPOSED ACCESS FOR DAM TO BE DETERMINED BY THE ENGINEER UPON CONSTRUCTION

BM
VTAT DISK
"DAM ONE"
ELEV. 505.555'

REV. CURVE #3 PI 201+23.23 = 201+20.75

SURV. CURVE #3 PI 201+47.39 = 201+46.36

SURV. CURVE # 4 DATA
Δ = 67°-13'-03" LT.
D = 9°
R = 636.62'
T = 423.11'
L = 746.86'
E = 127.78'

REV. CURVE # 4 DATA
Δ = 71°-28'-02" LT.
D = 8°-30'
R = 674.07'
T = 484.97'
L = 840.79'
E = 156.33'
FULL BANK = 0.063 FT/FT

SURV. POC 210+12.50
REV. POC 209+81.36 =
TH 2 POT 29+92.68
SURV. POC 209+85.00 =
TH 2 POT 30+00.00
Δ = 90° RT.

REV. 210+03
END PROJECT
RSEGC RS0167(9)
BEGIN PROJECT
BRS0167(11)

REV. POC 207+98.47 =
TH 12 POT 19+93.35
Δ 90° TANGENT TO CURVE

BM
VTAT
CHIS. SQ.
ELEV. 529.78'

TH 12 REV.
PI 22+65.70 =
22+44.76

TH 12 REV.
PI 20+84.07 =
20+63.83

TH 12 SURV.
PI 21+40.00 =
21+16.85

REV. CURVE #4
PI 209+60.75 =
208+31.60

TH 12 REV.
PC 21+51.35

SURV. CURVE #4
PI 209+73.78=208+74.42

TH 2
PI 30+91.90 =
30+83.48

TBM#1
SIR 18" M
ELEV. 521.95'

SURV.
PT 22+39.97

TH 12 SURV.
PC 22+98.7

REV. PT 23+59.11

REV.PC 24+14.49

REV.PT 25+33.72

TH 12 REV.POT 25+79.69 =
TH 12 SURV.POT 25+48.62 =
TH 12 TRAV.POT 66+60.8
EQ. +31.07

TH 12 SURV.
PI 24+45.19 =
24+02.16

REMOVAL AND DISPOSAL OF GUARD RAIL
REV. 195+00 LT. ~ REV. 199+40 LT.
REV. 199+30 LT. ~ REV. 200+10 LT.
REV. 200+25 LT. ~ REV. 206+60 LT.
REV. 206+90 LT. ~ REV. 207+10 LT.
TH 2 31+00 ~ 31+50 LT.

SURV. CURVE # 3 DATA
Δ = 11°-45'-00" RT.
D = 4°-00'
R = 1432.40'
T = 147.39'
L = 293.75'
E = 7.56'

REV. CURVE # 3 DATA
Δ = 17°-59'-03" RT.
D = 6°-00'
R = 954.93'
T = 151.11
L = 299.74'
E = 11.88'
FULL BANK=0.077 FT/FT

SCARIFYING PAVEMENT

EXCAVATION OF SURFACES AND PAVEMENTS
(AREA TO BE TOPSOILED, SEEDED AND MULCHED)
~~REV. 205+35 LT. ~ REV. 205+75 LT.~~
27 REV. 206+~~50~~ LT. ~ REV. 206+~~90~~ LT.
(OLD BRIDGE APPROACH) 78
~~OLD TH 2 : SURV. 30+75 ~ 31+50 LT.~~
~~OLD TH 12 : REV. 21+86 ~ 22+50 RT.~~

SCARIFYING PAVEMENT
REV. 198+75 LT. ~ 201+00 LT.
REV. 205+~~75~~ LT. ~ ~~207+00~~ LT.
35 206+28

DRIVE GATE FOR WOVEN WIRE FENCE
REV. STA. 198+50 RT. (16' WIDE)
(2 ~ 8' GATES W/OPENING IN MIDDLE)

EROSION MATTING (ON SLOPE) (ABOVE RETAINING WALL)
REV 195+00 ~ REV 197+93.97 RT

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
40 REV. 199+~~85~~ ~ REV. ~~204+75~~ 1+47
REV. 205+25 ~ REV 207+~~25~~ 22
96 REV. 209+~~25~~ 2+50 ~ REV 210+25*
*PAYMENT INCLUDED UNDER THE MORETOWN-MIDDLESEX BRS 0167(11) PROJECT
~~TH 12 REV 21+75 ~ REV 22+75~~
TH 12 REV ~~23+85~~ ~ REV ~~24+25~~
20+00 20+20

STEEL BEAM GUARD RAIL
REV. 195+00 LT. ~ REV. 209+81 LT.

CONSTRUCT DRIVE
REV. STA. 198+85 RT. (16' GRAVEL)

CONSTRUCT PARKING AREA
REV. 205+90 LT. ~ REV. 207+05 LT.
(PAVED)
(ISLAND TO BE TOPSOILED AND SEEDED)

GRUBBING MATERIAL
REV. 198+00 LT. ~ REV. 202+00 LT.
REV. 205+00 RT. ~ REV. 205+50 RT.
REV. 208+00 LT. ~ REV. 209+50 LT.

REMOVAL OF PAVEMENT, BELOW SUBGRADE (0'-2') (PAID AS COMMON EXCAVATION)
REV 197+93.97 ~ REV 198+75

ALUMINUM APPR. RAIL (MOD#2)
TH 2 30+73 LT ~ REV 210+28 RT (75').

ALUMINUM APPR. RAIL (MOD#1)
REV 209+81 ~ REV 210+06 LT (25')
REV 210+28 ~ REV 210+53 RT (25').

REMOVAL OF EXISTING FENCE
TH 2 30+25 ~ 31+50 RT.

TREATED TIMBER CURB
56 REV. 207+~~30~~ LT. ~ REV. 209+56 LT.
REV. 209+56 LT. ~ REV. 210+~~06~~ LT.
08

STONE FILL, TYPE II
(FOR SLOPE STABILIZATION)
REV. 205+00 RT. ~ REV. 205+~~50~~ RT.
75

GEOTEXTILE UNDER STONE FILL
REV. TH 12 20+34 LT. ~ 22+95 LT.
REV. TH 12 20+50 RT. ~ 22+30 RT.
REV. TH 12 23+00 LT. ~ 25+30 LT.

○ DENOTES REMOVAL OF TREE OR STUMP

CONSTRUCT APPROACH
REV. POC 207+98.29 (TH 12)
REV. POC 209+81.36 (TH 2)

30" REINFORCED CONCRETE PIPE (MOD)
REV 207+60 ~ 207+82 LT
(BARRICADE AT END OF EXISTING BRIDGE; REFER TO DETAIL ON SHEET # 183 OF PLANS)
COST OF THIS BARRICADE IS A MORETOWN-MIDDLESEX BRS 0167(11) QUANTITY)

TH 12 SURV. CURVE #1 DATA
Δ = 60°-17'-30" RT.
D = 27°-01'-35"
R = 212.00'
T = 123.12'
L = 223.09'
E = 33.16'

TH 12 SURV. CURVE #2 DATA
Δ = 74°-57'-35" LT.
D = 29°-59'-52"
R = 191.00'
T = 146.45'
L = 249.87'
E = 49.68'

TH 12 REV. CURVE #1 DATA
Δ = 79°-00'-21" RT.
D = 76°-23'-40"
R = 75.00'
T = 61.83'
L = 103.42'
E = 22.20'

TH 12 REV. CURVE #2 DATA
Δ = 59°-31'-08" LT.
D = 28°-38'-52"
R = 200.00'
T = 114.35'
L = 207.76'
E = 30.38'

TH 12 REV. CURVE #3 DATA
Δ = 34°-09'-18" LT.
D = 28°-38'-52"
R = 200.00'
T = 61.44'
L = 119.22'
E = 9.23'

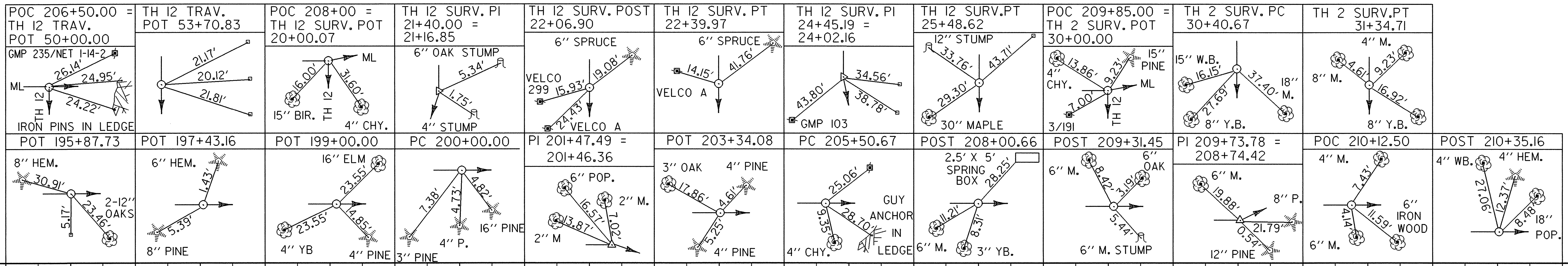
REV. 25+79.69
END TH 12 APPROACH CONSTRUCTION

TH #2 CURVE #1 DATA
Δ = 56°-25'-35" LT.
D = 60°-00'
R = 95.493'
T = 51.231'
L = 94.044'
E = 12.87'

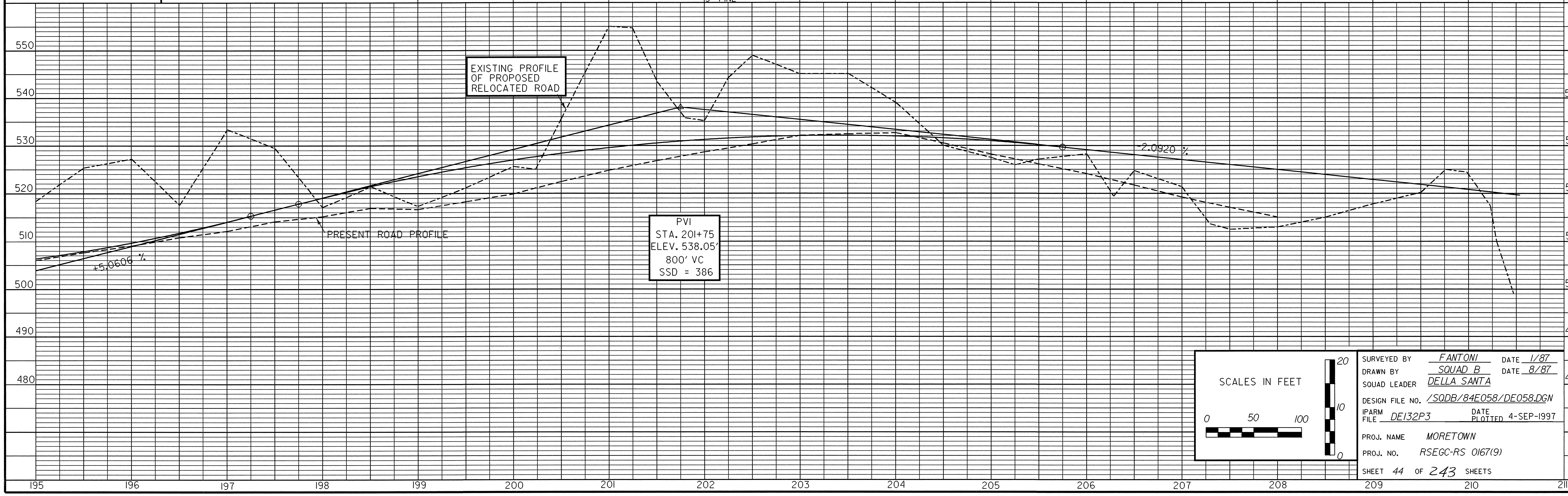
0 50 100
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

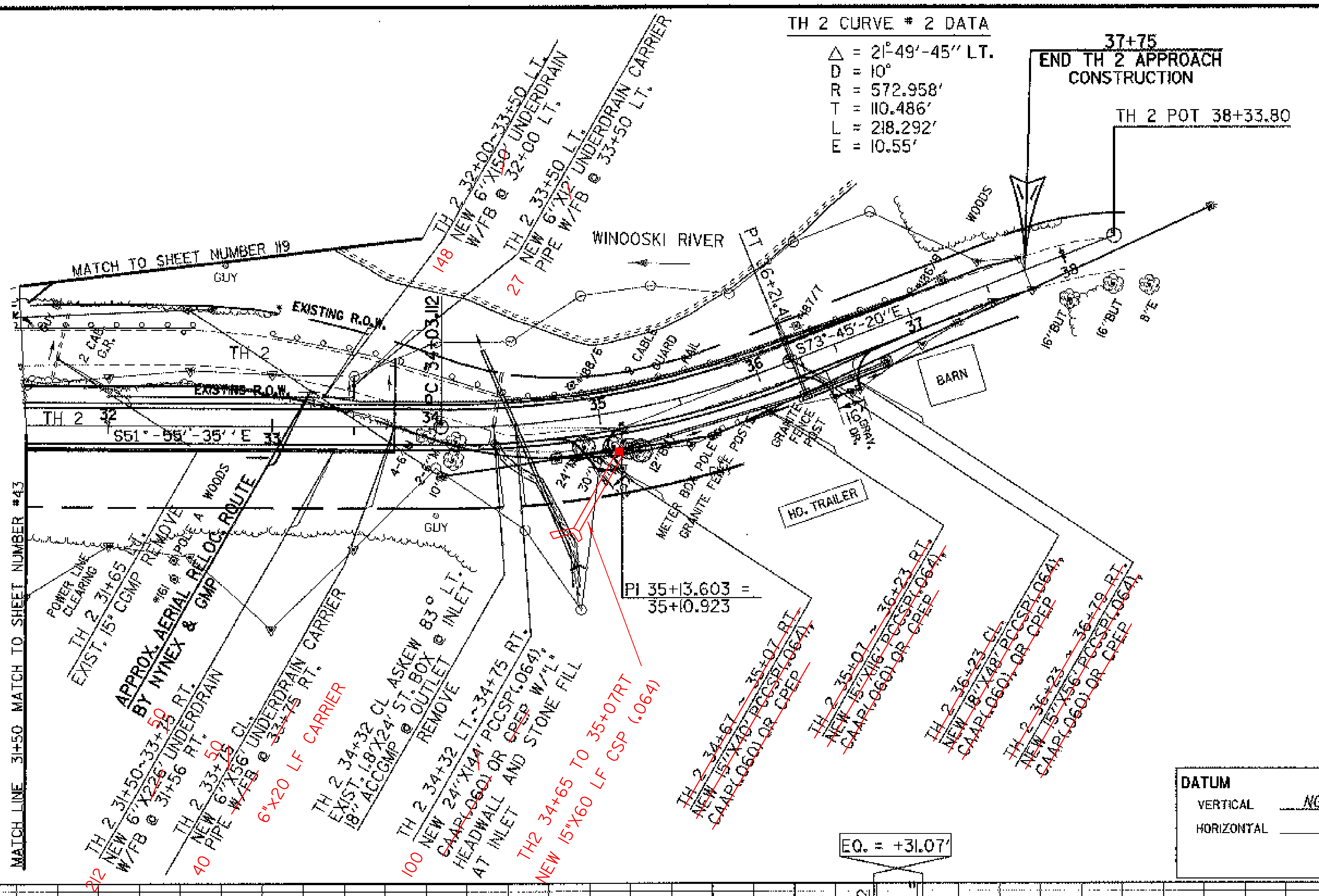
SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132L3 DATE PLOTTED 18-MAY-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 43 OF 243 SHEETS



DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132P3 DATE PLOTTED 4-SEP-1997
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 44 OF 243 SHEETS



TH 2 CURVE # 2 DATA
△ = 21°-49'-45" LT.
D = 10°
R = 572.958'
T = 110.486'
L = 218.292'
E = 10.55'

37+75
END TH 2 APPROACH
CONSTRUCTION

DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
TH 2 31+75. ~ 33+25 59

GRUBBING MATERIAL
TH 2 34+00 LT. ~ 37+25 LT.

MODFIED ECCENTRIC LOADER TERRMINAL(MELT)
TH 2 33+25 ~ 33+62.5 LT.
TH 2 36+87.5 ~ 37+25 LT.

EXCAVATION OF SURFACES AND PAVEMENTS
((AREA TO BE TOPSOILED, SEEDED AND MULCHED))
~~OLD TH 2 : SURV. 31+50 ~ 33+75 LT.~~

CONSTRUCT DRIVE
TH 2 34+88 RT. (GRAVEL)
TH 2 36+50 RT. (GRAVEL)

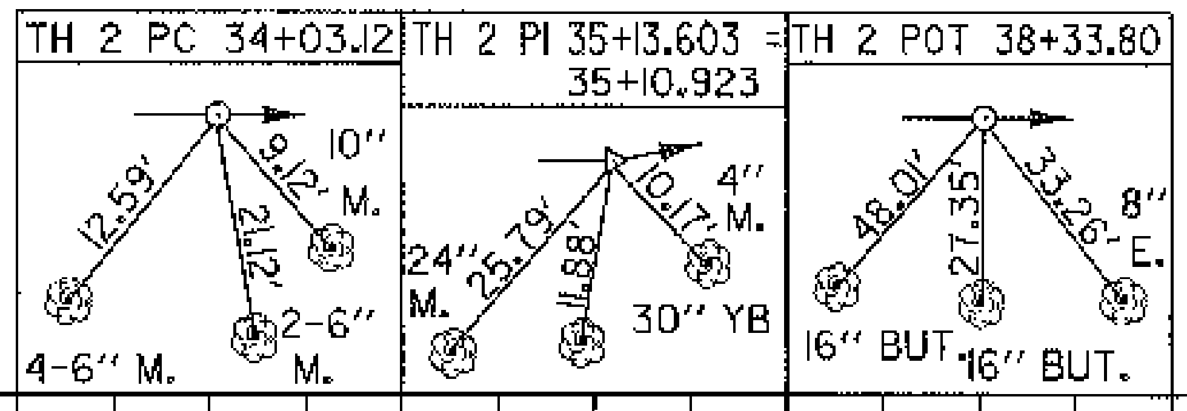
DRIVE GATE FOR WOVEN WIRE FENCE
TH 2 34+88 RT. (16' WIDE)
(2 - 8' GATES W/ OPENING IN MIDDLE)

REMOVAL AND DISPOSAL OF GUARD RAIL
TH 2 31+50 ~ 32+54 LT.
TH 2 33+00 ~ 37+07 LT.

REMOVAL OF EXISTING FENCE
~~TH 2 31+50 ~ 35+00 RT.~~

STEEL BEAM GUARD RAIL
TH 2 33+62.5 ~ 36+87.5 LT.

0 50 100
SCALE IN FEET



DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

○ DENOTES REMOVAL OF TREE OR STUMP

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN.DGN
IPARM FILE DE132L4 DATE PLOTTED 01-MAR-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 45 OF 243 SHEETS

550
540
530
520
510
500
490
480
470

MORETOWN RSEGC - RS 0167(9)

BORING NO. R - 1

ELEV. 540.2±
X Sect.

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
		5		M	brn	A-4 Sandy Silt w = 24.6%
10		9		M	brn	A-4 Sandy Silt w = 29.0%
		11		M	gr	A-4 Sandy Silt w = 22.2%
20		15		M	gr	A-4 Sandy Silt w = 26.0%
		18		M	gr	A-4 Sandy Silt w = 23.1%
30		12		M	gr	A-4 Sandy Silt w = 28.9%
		45		M	gr	A-2-4 Silty Sand w = 17.1%
40		24		MTW	gr	A-4 Silt w = 29.5%
		28		M	gr	A-4 Silty Sand w = 24.6%
50		33		M	gr	A-4 Silty Sand w = 23.4%
		---		M	gr	A-1-b GrSa w = 13.3% ▼
60						
70						
80						
90						

Top of Bedrock and Groundwater at 55.8'

Run	Interval	% Rec.
1 AXMDC	55.8 - 60.8	70
2 AXMDC	60.8 - 65.8	40
3 AXMDC	65.8 - 68.8	100

See Geologist's Report Below

Hole stopped at 68.8' in Bedrock

Groundwater Elevation = 484.4 on 6/22/89

Core consists of quartz-sericite-chlorite schist. The rock contains pyrite and magnetite which weathers to iron oxides. The rock is moderately soft, slightly weathered and competent.

A moderate amount of weathering occurs between 60.8' and 65.8'.

MORETOWN RSEGC - RS 0167(9)

BORING NO. R - 2

ELEV. 539±
X Sect.

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
		15		M	brn	A-4 Sandy Gravelly Silt w = 11.9%
10		22		M	gr	A-4 Sandy Gravelly Silt w = 22.1%
		20		M	gr	A-4 Silt w = 26.3%
20		19		M	brn	A-4 SiSa w = 16.4%
30						
40						
50						
60						
70						

Top of Bedrock at 22.5'

Run	Interval	% Rec.
1 AXMDC	22.5 - 27.5	44
2 AXMDC	27.5 - 32.5	76

See Geologist's Report Below

Hole stopped at 32.5' in Bedrock

No Groundwater to Depth on 6/26/89

Core consists of quartz-sericite-chlorite schist. The rock is moderatley soft, slightly weathered and competent overall. Poor core recovery may be due to a weathered quartz-rich zone. Upper 5' of the rock may be poorer quality than indicated by the recovered core.

MORETOWN RSEGC - RS 0167(9)

BORING NO. R - 3

ELEV. ±539
X-SECTION

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
		5		M	brn	A-4 Silty Sand
10		12		M	brn	A-4 Sandy Silt w = 23.0%
		14		M	brn	A-4 Sandy Silt w = 29.2%
20		13		M	brn	A-4 Sandy Silt w = 29.2%
		21				No Recovery
30						
40						
50						
60						

Top of Bedrock at 29.0'

Run	Interval	% Rec.
1 AXMDC	29.0 - 34.0	48
2 AXMDC	34.0 - 39.0	100

See Geologist's Report Below

Hole stopped at 39.0' in Bedrock

No Groundwater to Depth on 6/2/89

Core consists of quartz-sericite-chlorite schist. Poor recovery in the upper 5' may indicate an extensive zone of fracturing and weathering. Below this, the rock is moderately soft, slightly weathered, and competent overall.

BORING NOMENCLATURE

◐ STANDARD PENETRATION BORINGS
SAMPLER OUTSIDE DIAMETER 2"
SAMPLER INSIDE DIAMETER 1 3/8"
WEIGHT OF HAMMER 140 LBS
HAMMER FALL 30"

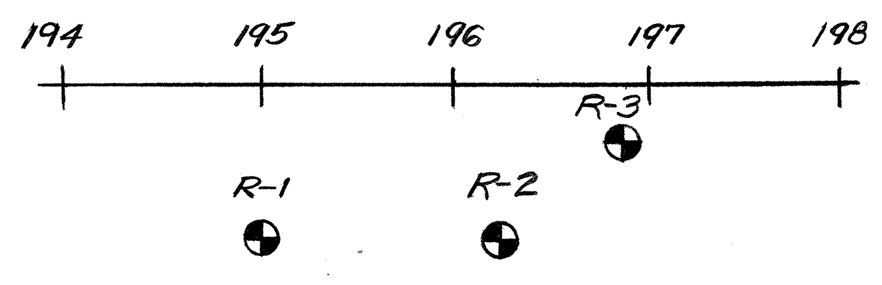
● AUGER BORINGS

⊙ ROD SOUNDINGS

UP UNDISTURBED PISTON SAMPLE

VS FIELD VANE SHEAR SAMPLE

BORING NO.	STATION	OFFSET	GROUND ELEV.
R-1	195+00	40' RT	540.2±
R-2	196+25	40' RT	539.0±
R-3	196+90	30' RT	539.0±

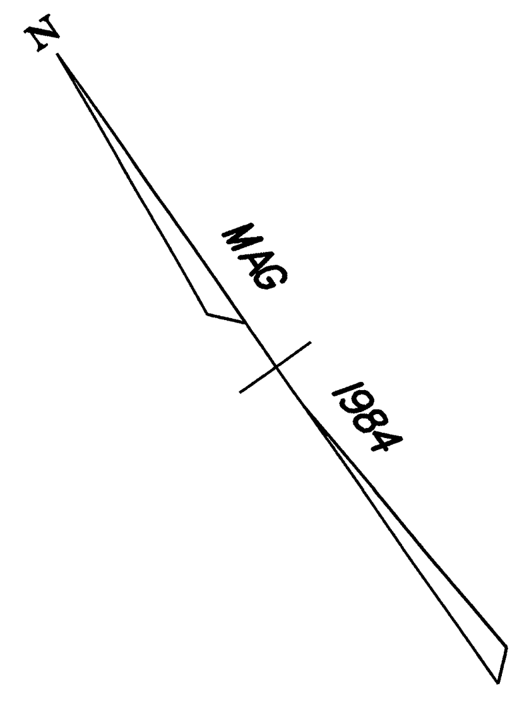


BORING PLAN

SCALE: 1" = 50'-0"

DATUM
VERTICAL ____________
HORIZONTAL ____________

SURVEYED BY	DATE
DRAWN BY VEILLEUX	DATE 10-89
SQUAD LEADER BRUCE BOYD	
DESIGN FILE NO.	DATE PLOTTED
PROJ. NAME MORETOWN	
PROJ. NO. RS 0167(9)	
SHEET 46 OF 243 SHEETS	



DURABLE 4" YELLOW LINE

STA. 163+70 TO 179+00 C.L. (DOUBLE)

TEMPORARY 4" YELLOW LINE

STA. 163+70 TO 179+00 C.L. (DOUBLE)

DURABLE 4" WHITE LINE

STA. 163+70 TO 179+00 RT.
STA. 163+70 TO 179+00 LT.

TEMPORARY 4" WHITE LINE

STA. 163+70 TO 179+00 RT.
STA. 163+70 TO 179+00 LT.

REMOVING SIGNS 4

SALVAGE SIGNS 0

LEGEND FOR SIGNS

N = NEW SIGN
R = REMOVE SIGN
S = SALVAGE SIGN

NOTE : DASHED SIGNS AND POSTS ARE EXISITING

NOT TO SCALE

NOTES:

-EXISTING SIGN INVENTORY AS OF 10/11/95

TRAFFIC SHEET 1 OF 7 SHEETS

SIGN & PAVEMENT MARKING LAYOUT SHEET

de058tbr.dgn

DRAWN BY *TRAFFIC & SAFETY* DATE *03/06/95*
DESIGN FILE NO. */SQDB/84E058/DE058TBR.DGN*
IPARM FILE *DE132MKIJ* DATE PLOTTED 30-NOV-1999
PROJ. NAME *MORETOWN*
PROJ. NO. *RSEGC-RS 0167(9)*
SHEET *47* OF *243* SHEETS

DURABLE 24" STOP BAR
TH 66 STA. 0+40 (9' LT.)

DURABLE 4" YELLOW LINE
STA. 179+00 TO 181+51 C.L. (DOUBLE)
STA. 181+91 TO 195+00 C.L. (DOUBLE)

TEMPORARY 4" YELLOW LINE
STA. 179+00 TO 181+51 C.L. (DOUBLE)
STA. 181+91 TO 195+00 C.L. (DOUBLE)

DURABLE 4" WHITE LINE
STA. 179+00 TO 195+00 LT.
STA. 179+00 TO 181+62 RT.
STA. 181+80 TO 195+00 RT.

TEMPORARY 4" WHITE LINE
STA. 179+00 TO 195+00 LT.
STA. 179+00 TO 181+30 RT.
STA. 182+16 TO 195+00 RT.

REMOVING SIGNS 6

SALVAGE SIGNS 0

LEGEND FOR SIGNS

N = NEW SIGN
R = REMOVE SIGN
S = SALVAGE SIGN

NOTES:

-EXISTING SIGN INVENTORY AS OF 10/11/95.

NOTE : DASHED SIGNS AND POSTS ARE EXISTING

SIGN & PAVEMENT MARKING LAYOUT SHEET

NOT TO SCALE

TRAFFIC SHEET 2 OF 7 SHEETS

DRAWN BY *TRAFFIC & SAFTEY* DATE 03/06/95
DESIGN FILE NO. */SQDB/84E058/DE058tbr.DGN*
IPARM FILE *DE132MK2.I* DATE PLOTTED 30-NOV-1999
PROJ. NAME *MORETOWN*
PROJ. NO. *RSEGC RS 0167(9)*
SHEET *48* OF *243* SHEETS

DURABLE 24" STOP BAR

REV. TH 2	STA. 30+40	LT. (12')
REV. TH 12	STA. 20+40	LT. (9')

DURABLE 4" WHITE LINE

STA. 195+00 TO 210+03 LT.
STA. 195+00 TO 207+86 RT.
STA. 208+03 TO 209+72 RT.
STA. 209+93 TO 210+03 RT.

TEMPORARY 4" WHITE LINE

STA. 195+00 TO 210+03 LT.
STA. 195+00 TO 207+55 RT.
STA. 208+39 TO 209+28 RT.

DURABLE 4" YELLOW LINE

STA. 195+00 TO 207+78 C.L. (DOUBLE)
STA. 208+18 TO 209+61 C.L. (DOUBLE)
STA. 210+01 TO 210+03 C.L. (DOUBLE)

TEMPORARY 4" YELLOW LINE

STA. 195+00 TO 207+78 C.L. (DOUBLE)
STA. 208+18 TO 209+61 C.L. (DOUBLE)
STA. 210+01 TO 210+03 C.L. (DOUBLE)

REV. 25+79.69
END TH 12 APPROACH
CONSTRUCTION

LEGEND FOR SIGNS

N = NEW SIGN
R = REMOVE SIGN
S = SALVAGE SIGN

REMOVING SIGNS 39

SALVAGE SIGNS 4

NOTE : DASHED SIGNS AND POSTS ARE EXISTING

SIGN & PAVEMENT MARKING LAYOUT SHEET

NOTES:

-EXISTING SIGN INVENTORY AS OF 10/11/95.

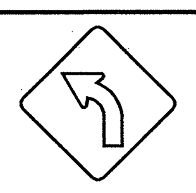
NOT TO SCALE

TRAFFIC SHEET 3 OF 7 SHEETS

DRAWN BY TRAFFIC & SAFETY DATE 03/06/95
DESIGN FILE NO. /SQDB/84F058/DF058tbf.DGN
IPARM FILE DEI32MK3J DATE PLOTTED 30-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSECC-RS 0167(9)
SHEET 49 OF 243 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND VT.100B	EA	SIGN DIMENSIONS WIDTH (In)	SIGN DIMENSIONS HEIGHT (In)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	FLANGED CHANNEL 1.12 lb/ft	FLANGED CHANNEL 2.0 lb/ft	FLANGED CHANNEL 3.0 lb/ft	SQUARE STEEL (In) 1.75 (1.88 lb/ft)	SQUARE STEEL (In) 2.0 (2.16 lb/ft)	SQUARE STEEL (In) 2.5 (3.35 lb/ft)	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (In) 3.0 (1.3 lb/ft)	TUBULAR ALUMINUM Ø (In) 4.0 (1.7 lb/ft)	TUBULAR ALUMINUM Ø (In) 4.0 MOD (1.7 lb/ft)	FOUNDATION	TUBULAR STEEL Ø (In) 3.0 (7.6 lb/ft)	TUBULAR STEEL Ø (In) 3.5 (9.0 lb/ft)	TUBULAR STEEL Ø (In) 4.0 (10.8 lb/ft)	TUBULAR STEEL Ø (In) 5.0 (14.6 lb/ft)	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
166+22 RT	1002 1212 0700		6"	8"	0.33						1	X																							E-138
170+87 LT			30"	30"	6.25						1			X																					E-151
176+78 LT	1002 1212 0720		6"	8"	0.33						1	X																							E-138
181+50 RT	LEGAL LOAD LIMIT 24,000 POUNDS		24"	30"	5.00						1			X																			LOCATE SIGN ON TH 66.		E-141
181+94 RT	STOP		30"	30"	6.25						1			X																			LOCATE SIGNS ON TH 66.		E-143
	1002 1212 0729		6"	8"	0.33																														E-138
187+34 LT	1002 1212 0740		6"	8"	0.33						1	X																							E-138
187+76 LT	SCHOOL BUS STOP AHEAD		30"	30"	6.25						1			X																					E-153
190+50 RT	REDUCED SPEED AHEAD		24"	30"	5.00						1			X																					E-142
193+25 RT			30"	30"	6.25						1			X																					E-152
	BLIND PERSON		24"	18"	3.00																													52	---
198+95 LT	SPEED LIMIT 50		24"	30"	5.00						1			X																					E-142
198+95 RT	SPEED LIMIT 35		24"	30"	5.00						1			X																					E-142
200+15 LT			24"	24"	4.00						1			X																			MOUNT SIGNS PARALLEL TO ROADWAY.	53	---
	PORTAGE		24"	12"	2.00																													53	---
200+25 RT	SCHOOL BUS STOP AHEAD		30"	30"	6.25						1			X																					E-153
												FT 21	FT	FT 140	FT	FT	FT	▨	EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 61.57	SF	EA.	SF	▨	▨		FT 161			FT					LB			EA.	LB				EA.	EA.	LB					

OPTION ITEMS

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."

PROJECT NAME: MORETOWN
PROJECT NUMBER: RSEGC-RS 0167(9)

FILE NAME: DE132SI.I
PROJECT LEADER:
DESIGNED BY:
DESIGN/84E058/DE058SUM.DGN

PLOT DATE: 19-MAY-2000
DRAWN BY: TRAFFIC & SAFETY
CHECKED BY:
SHEET 50 OF 243

STATE OF VERMONT
AGENCY OF TRANSPORTATION

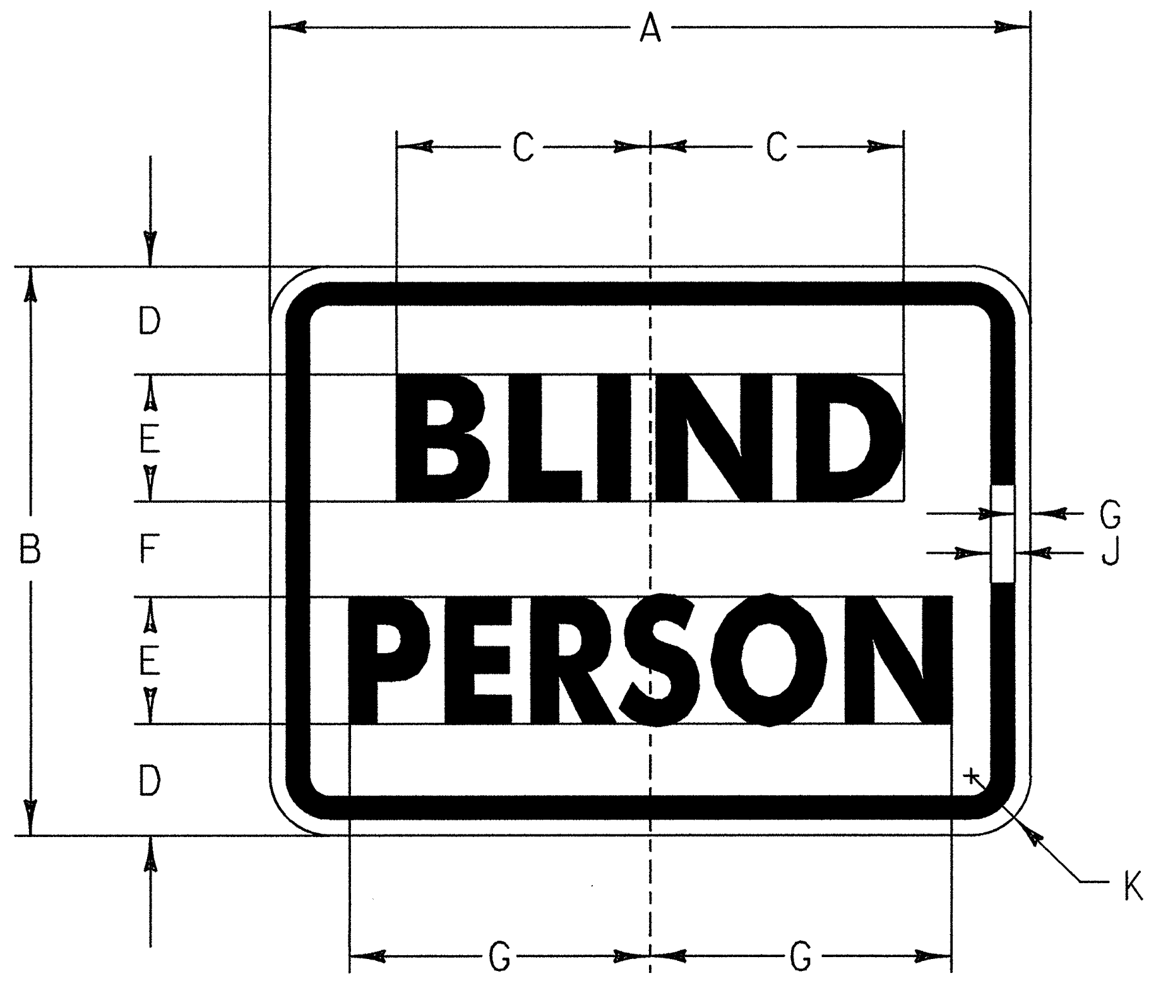
TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND VT.100B	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (In)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (In)			FOUNDATION	TUBULAR STEEL Ø (In)				W-SHAPE STEEL				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL	
		EA	WIDTH (In)	HEIGHT (In)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE		lb/ft			1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.88	2.16	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6								
												OPTION ITEMS																							
206+49 LT			24"	24"	4.00						1			X																			MOUNT SIGNS PARALLEL TO ROADWAY.	53	---
	PORTAGE		24"	12"	2.00																													53	---
206+50 RT	BRIDGES FREEZE BEFORE ROAD		36"	36"	9.00						1			X																					E-150
207+68 RT	LEGAL LOAD LIMIT 24,000 POUNDS		24"	30"	5.00						1			X																			LOCATE SIGN ON TH 12.		E-141
208+15 RT	STOP		30"	30"	6.25						1			X																			LOCATE SIGNS ON NEW TH 12.		E-143
	1002 1212 0779		6"	8"	0.33																														E-138
208+23 RT	TH 12		---		---		1				1			X																			SALVAGE SIGN FROM STA. 206+44 RT.		---
	HENNING RD.		---		---		1																										SALVAGE WOODEN SIGNS FROM OLD TH 12 AND LOCATE SIGNS ON NEW TH 12. SALVAGE SIGN FROM STA. 206+44 RT.		---
209+00 LT	MORETOWN 7		54"	7.5"	2.81						2			X																			SIGN TEXT SHALL BE 5 '' HIGH C SERIES WITH A 6% REDUCTION IN SPACING.		E-123
	WAITSFIELD 13		54"	7.5"	2.81																												SIGN TEXT SHALL BE 5 '' HIGH C SERIES WITH A 28% REDUCTION IN SPACING.		E-123
	WARREN 19		54"	7.5"	2.81																												SIGN TEXT SHALL BE 5 '' HIGH C SERIES WITH A 0% REDUCTION IN SPACING.		E-123
209+36 RT	LEGAL LOAD LIMIT 24,000 POUNDS		24"	30"	5.00						1			X																			LOCATE SIGN ON NEW TH 2.		E-141
210+08 RT	STOP		30"	30"	6.25						1			X																			LOCATE SIGNS ON NEW TH 2.		E-143
	1002 1212 0783		6"	8"	0.33																														E-138
210+13 RT	TH 2		---		---		1				1			X																			SALVAGE SIGN FROM STA. 207+33 LT. SALVAGE WOODEN SIGNS FROM OLD TH 2 AND LOCATE SIGNS ON NEW TH 2.		---
	RIVER ROAD		---		---		1																										SALVAGE SIGN FROM STA. 207+33 LT.		---
												FT	FT	FT 145	FT	FT	FT	▨	EA	LB	LB	LB		LB	LB	LB	LB								
					SF	SF	EA.	SF	▨			FT			FT					LB			EA.	LB				EA.	EA.	LB					
	TOTALS				46.59		4					145																							
	GRAND TOTALS				108.16		4					306																							

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."

PROJECT NAME: MORETOWN
PROJECT NUMBER: RSEGC-RS 0167(9)

FILE NAME: DE132S2.1
PROJECT LEADER:
DESIGNED BY:
DESIGN/84E058/DE058SUM.DGN
PLOT DATE: 19-MAY-2000
DRAWN BY:TRAFFIC & SAFETY
CHECKED BY:
SHEET 51 OF 243



AASHTO TYPE I SHEETING

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
STD.	24	18	8	3½	4C	3	9½	½	¾	1⅞

FOR SIGN SPECIFICATIONS REFER TO STANDARD E-152

COLORS

TEXT AND BORDER - BLACK (NON-REFL.)
BACKGROUND - YELLOW (REFL.)

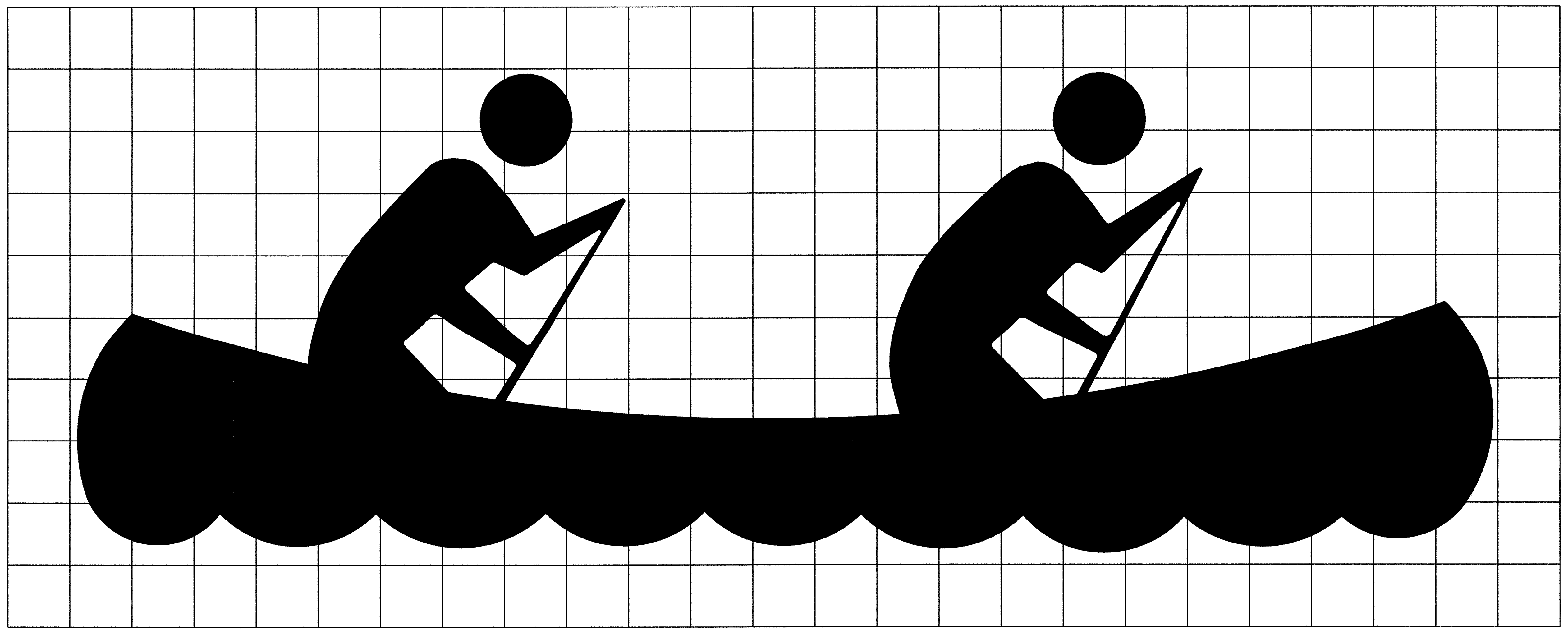
BLIND PERSON SUPPLEMENTAL SIGN

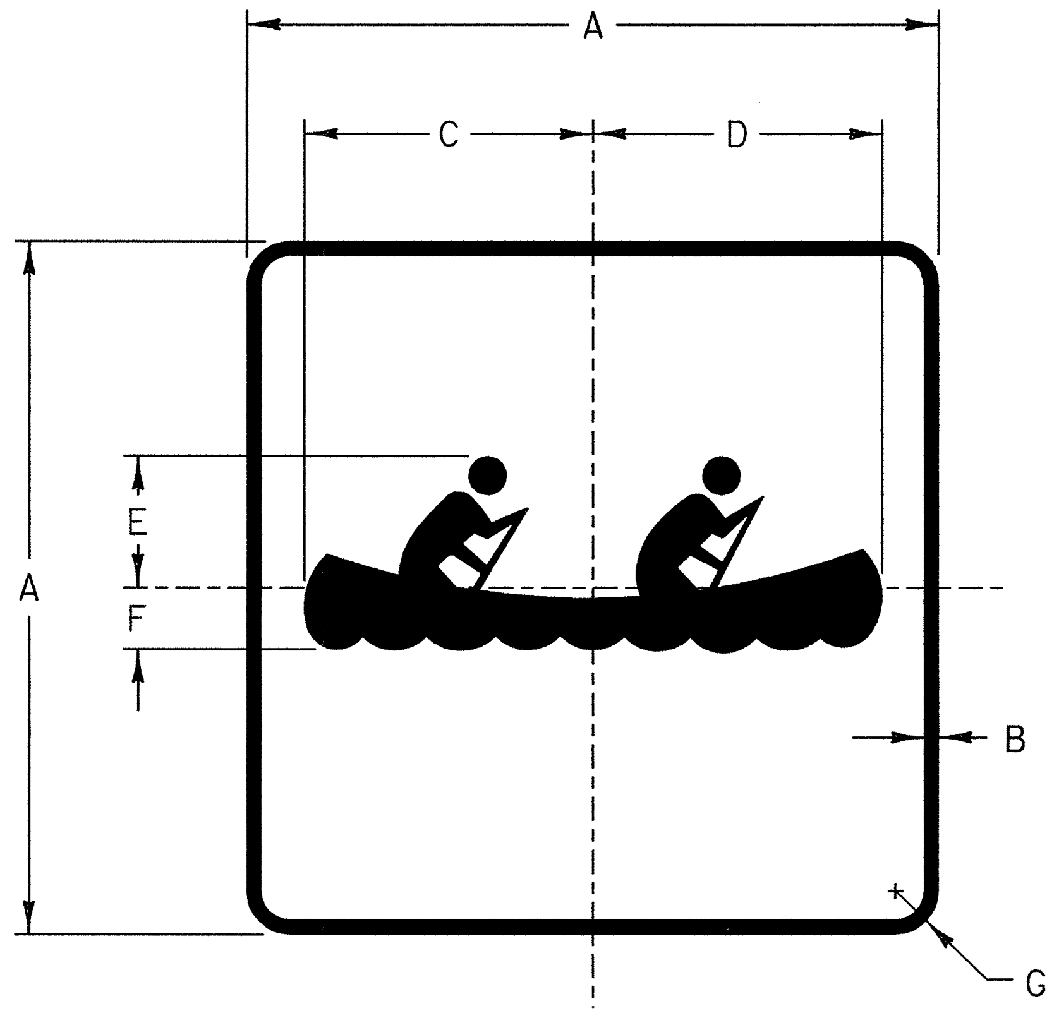
STA. 193+25 RT.

SIGN DETAIL SHEET

TRAFFIC SHEET 6 OF 7 SHEETS

DRAWN BY TRAFFIC & DATE 03/06/95
SQUAD LEADER SAFETY
DESIGN FILE NO. /SQDB/84E058/DE058DET.DGN
IPARM FILE DE132DT1.1 DATE PLOTTED 04-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET **52** OF 243 SHEETS





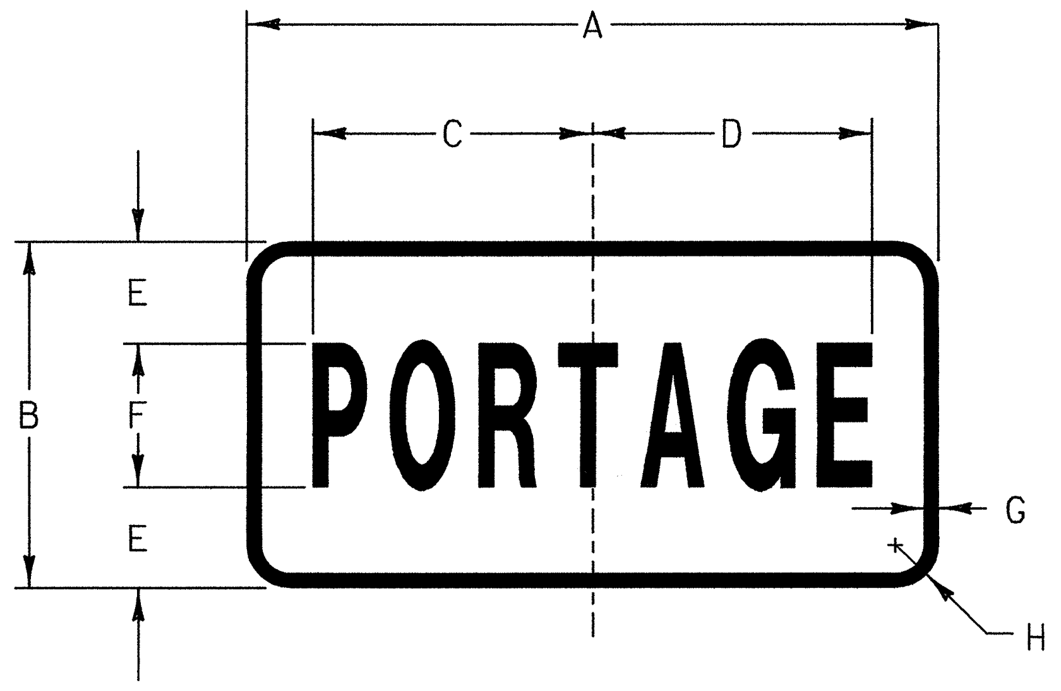
SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
STD.	24	$\frac{1}{2}$	$10\frac{3}{16}$	$10\frac{1}{4}$	$4\frac{9}{16}$	$2\frac{1}{8}$	$1\frac{1}{2}$

COLORS

SYMBOL AND BORDER - WHITE (REFL.)
BACKGROUND - BROWN (NON-REFL.)

CANOEING RECREATION SIGN

STA. 200+15 LT.
STA. 206+49 LT.



SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	24	12	$9\frac{11}{16}$	$9\frac{3}{4}$	$3\frac{1}{2}$	5B	$\frac{1}{2}$	$1\frac{1}{2}$

COLORS

SYMBOL AND BORDER - WHITE (REFL.)
BACKGROUND - BROWN (NON-REFL.)

CANOE PORTAGE SUPPLEMENTAL PLAQUE

MATERIALS

THE SIGN BASE MATERIAL MAY NOT BE ANY OF THE FOLLOWING, WITH THE MINIMUM THICKNESS AS NOTED:

FLAT SHEET ALUMINUM

LESS THAN 24" X 24"	0.060"
24" X 24"	0.080"

GALVANIZED FLAT SHEET STEEL

LESS THAN 24" X 24"	18 GAGE
24" X 24"	16 GAGE

THE REFLECTORIZED MATERIAL SHALL BE BROWN REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND. THE TEXTS MAY BE LETTERING FILM, SILK SCREEN OR HAND PAINTED.

COLORS

NATIONAL FOREST ROUTE MARKERS SHALL HAVE REFLECTIVE WHITE TEXT AND BORDERS ON REFLECTORIZED BROWN BACKGROUNDS. BROWN AREAS ARE INDICATED BY DOUBLE LINE CROSSHATCHING.

THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, AND FEDERAL HIGHWAY ADMINISTRATION.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

SPECIFICATIONS

RECREATION SIGNS AND RECREATION AUXILIARY SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR TRAFFIC SIGNS.

DESIGNS

THE DESIGNS OF RECREATION SIGNS AND RECREATION AUXILIARY SIGNS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

TRAFFIC SHEET 7 OF 7 SHEETS

SIGN DETAIL SHEET

DRAWN BY
SQUAD LEADER TRAFFIC & SAFETY DATE 03/06/95
DESIGN FILE NO. /SQDB/84E058/DE058DET.DGN
IPARM FILE DE132DT2.1 DATE PLOTTED 04-NOV-1999

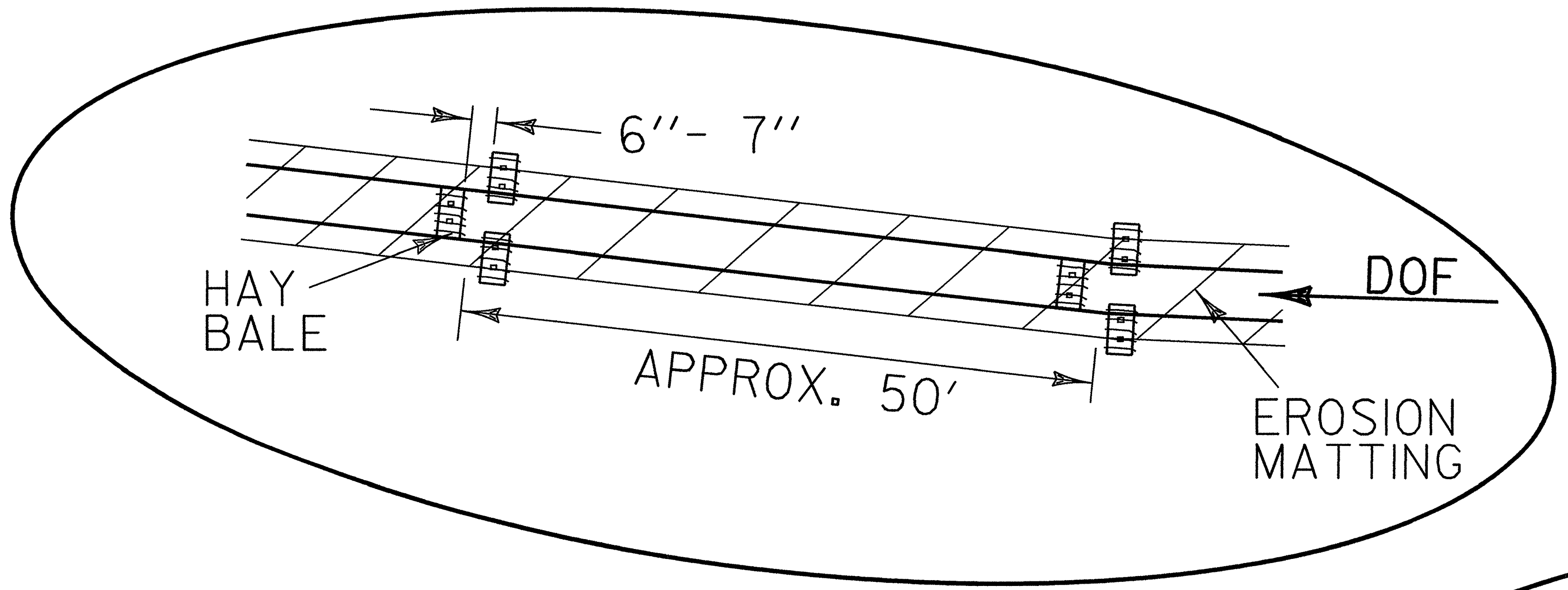
PROJ. NAME MORETOWN

PROJ. NO. RSEGC-RS 0167(9)

SHEET **53** OF 243 SHEETS

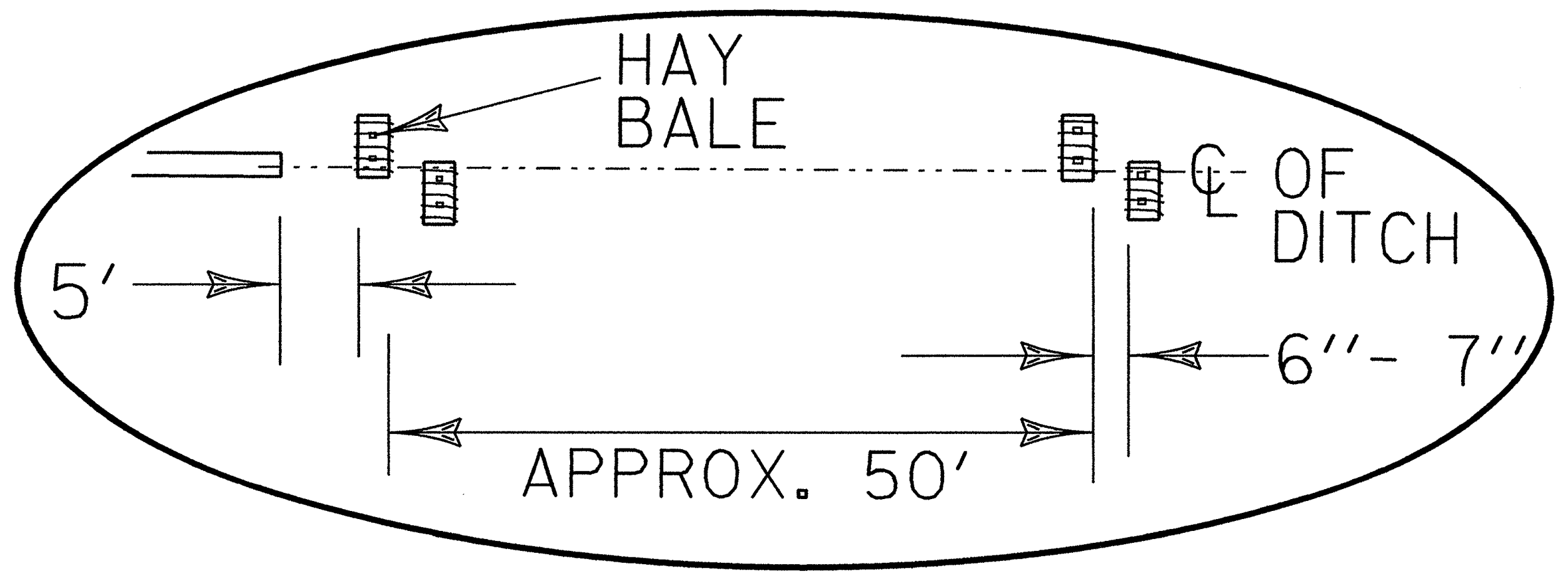
EROSION CONTROL PLANS TYPICAL SHEET

1.



AT INLET OR OUTLET

2.



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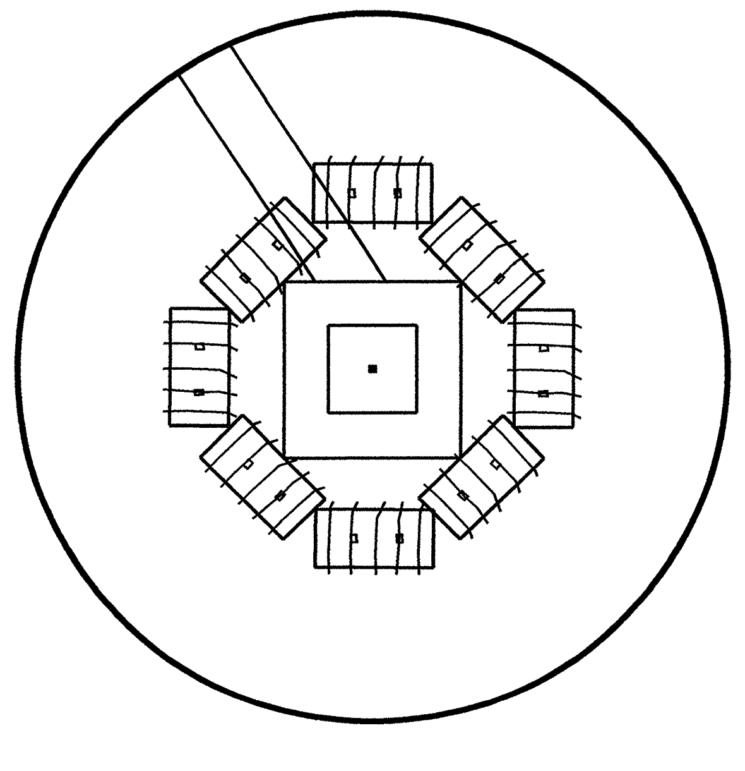

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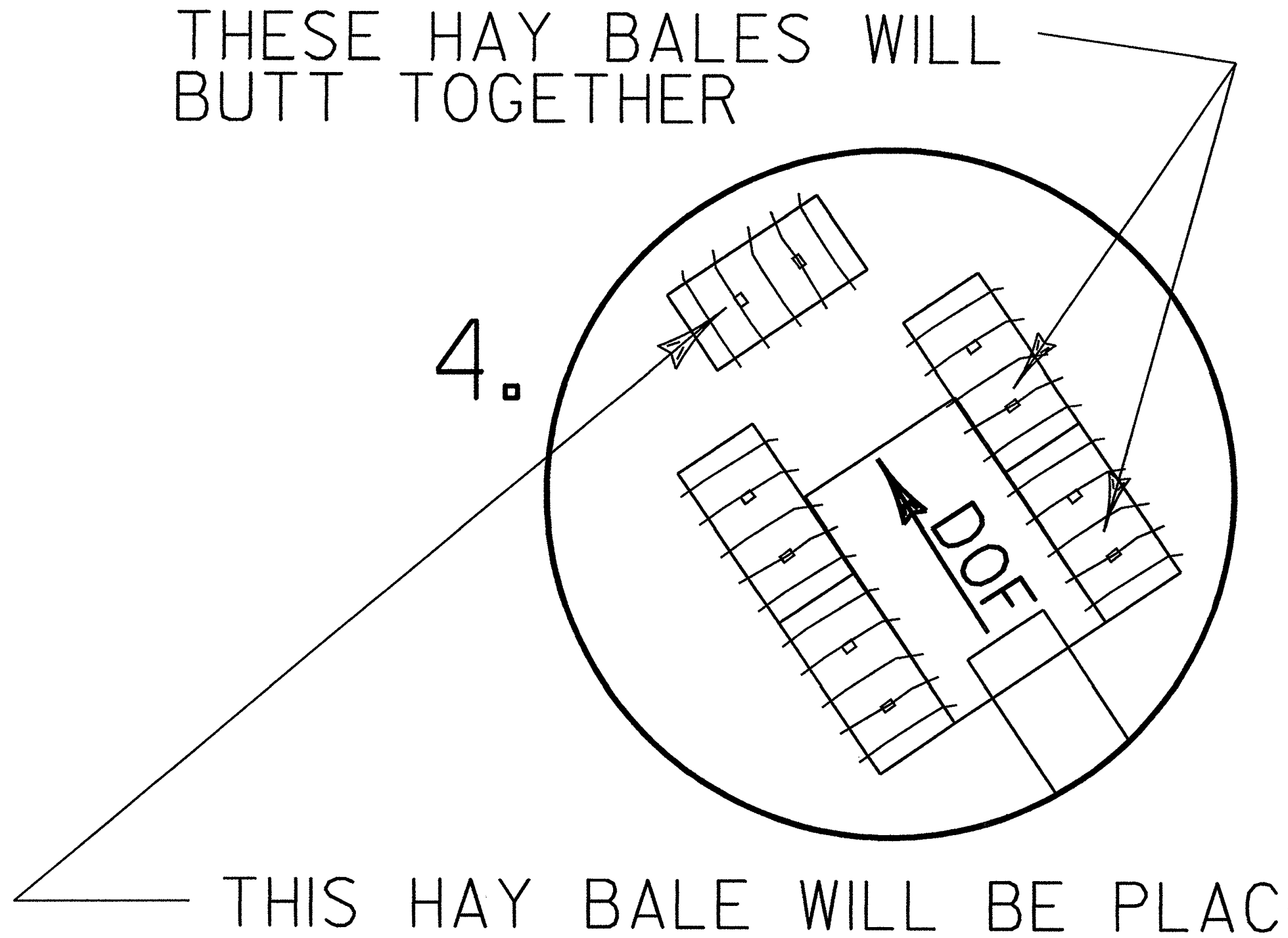

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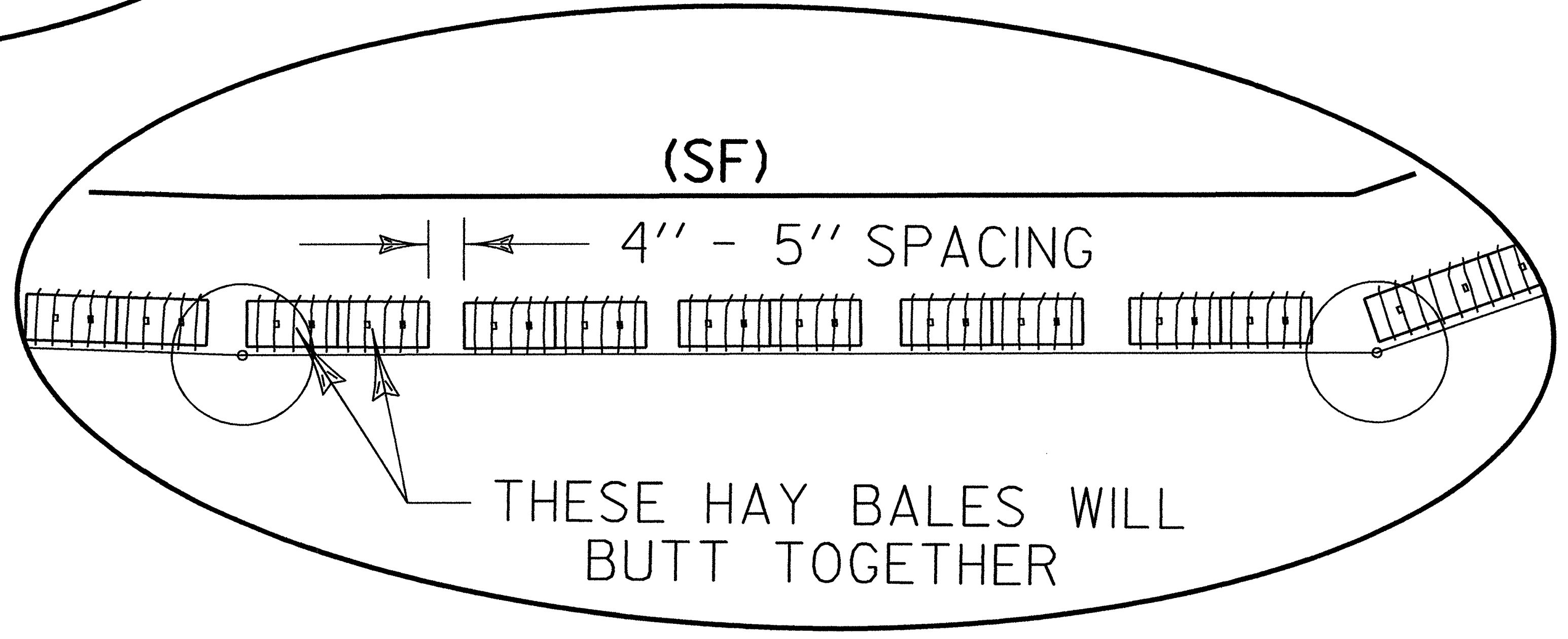

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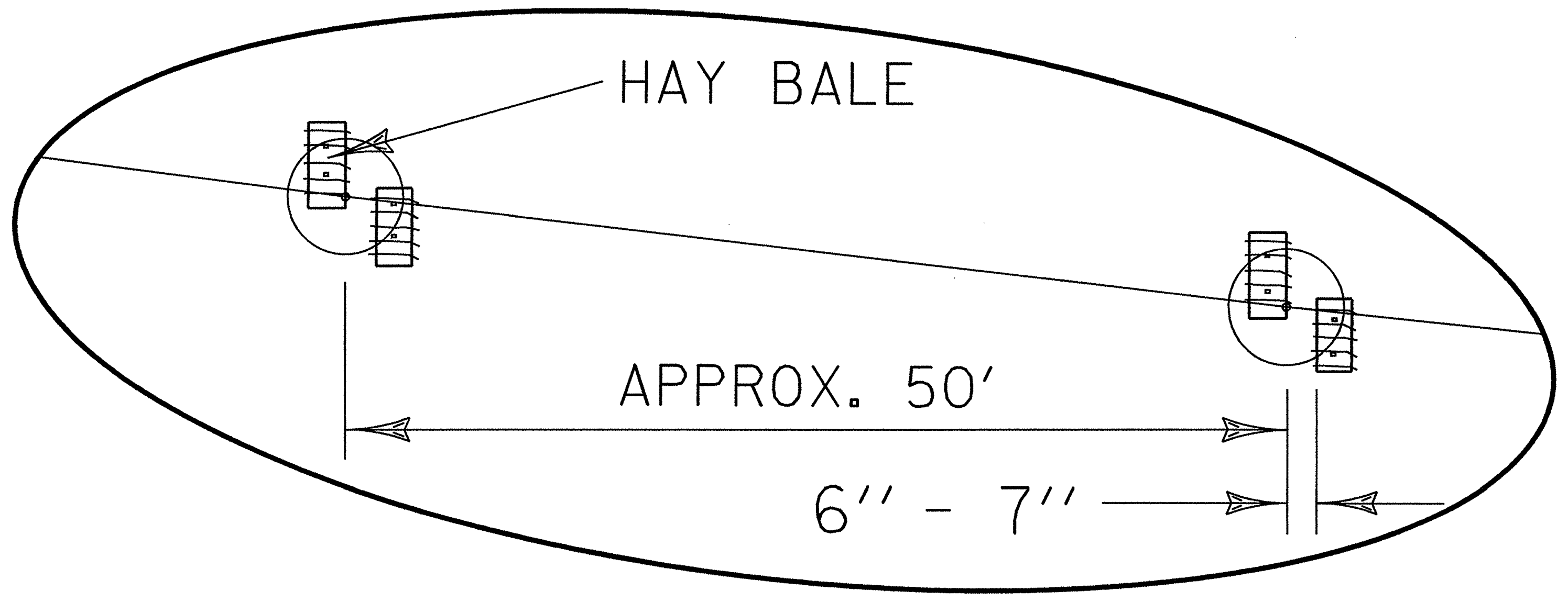

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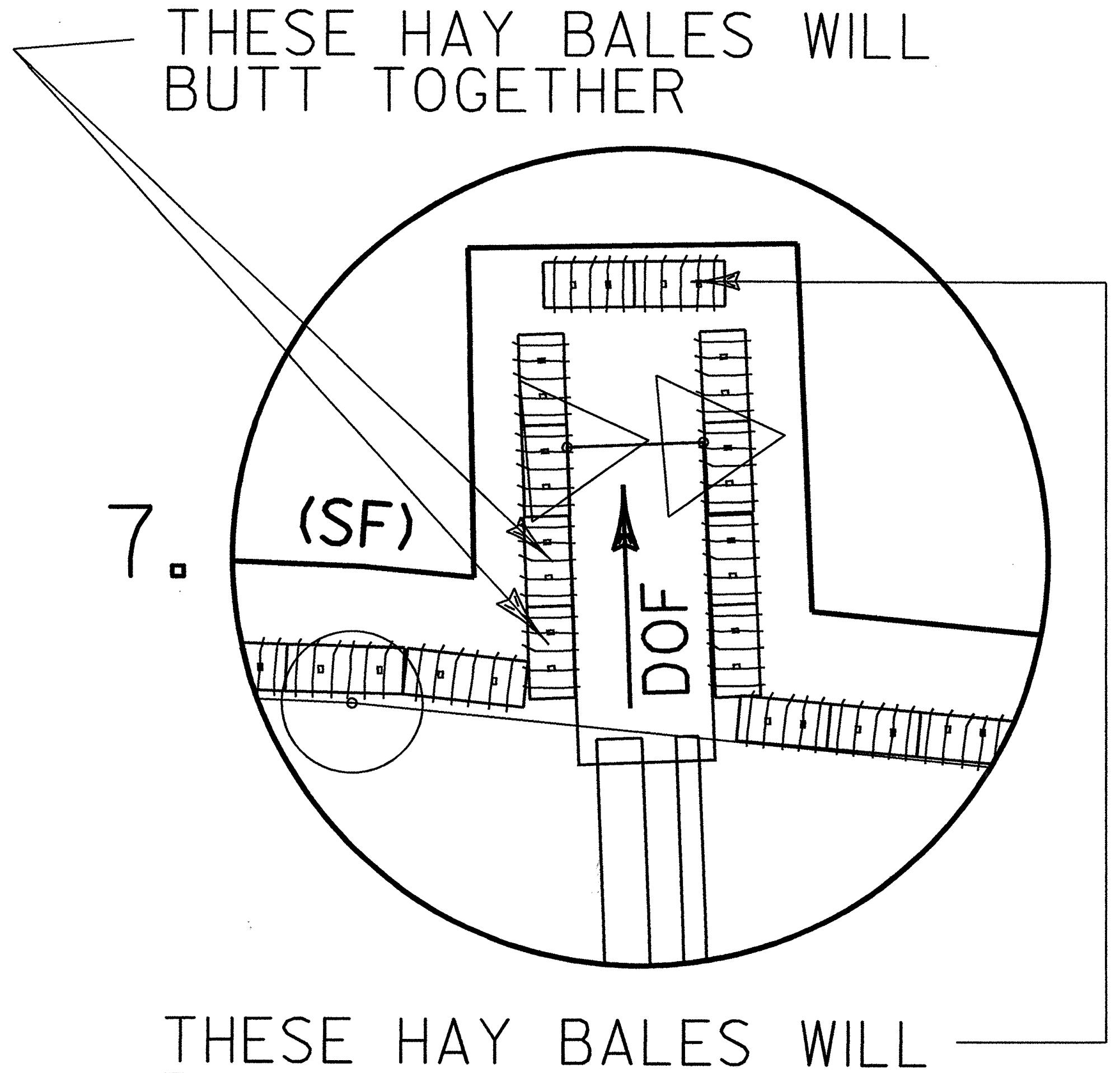
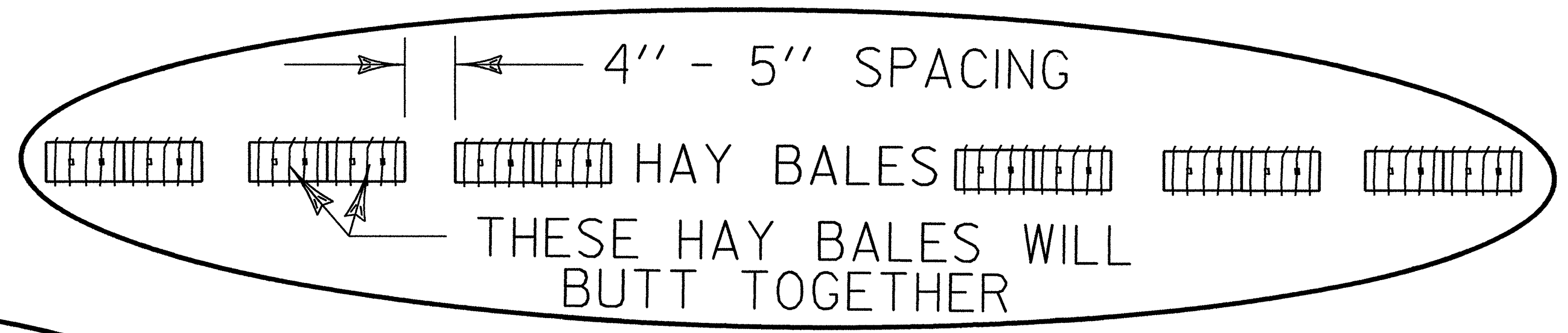
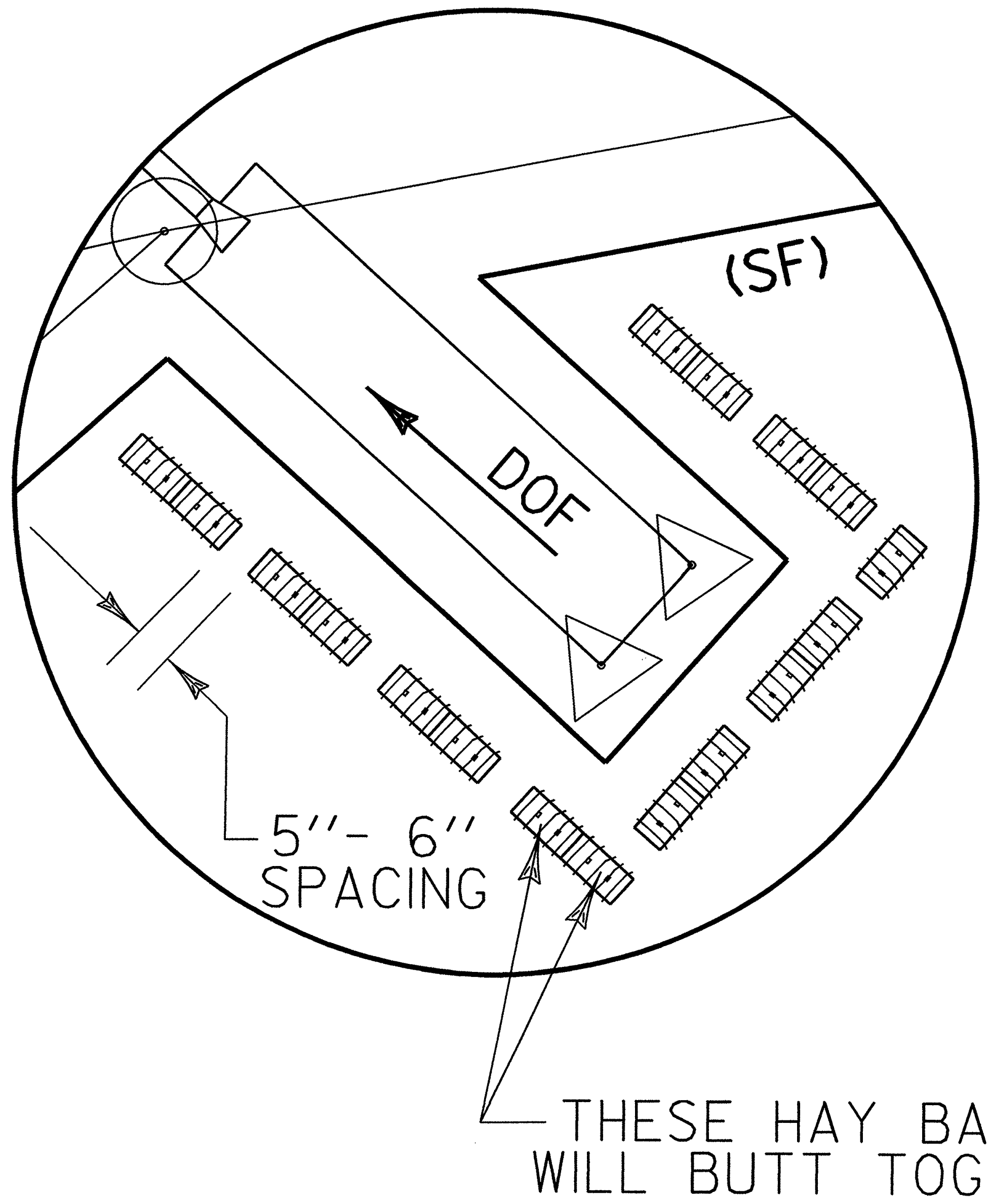


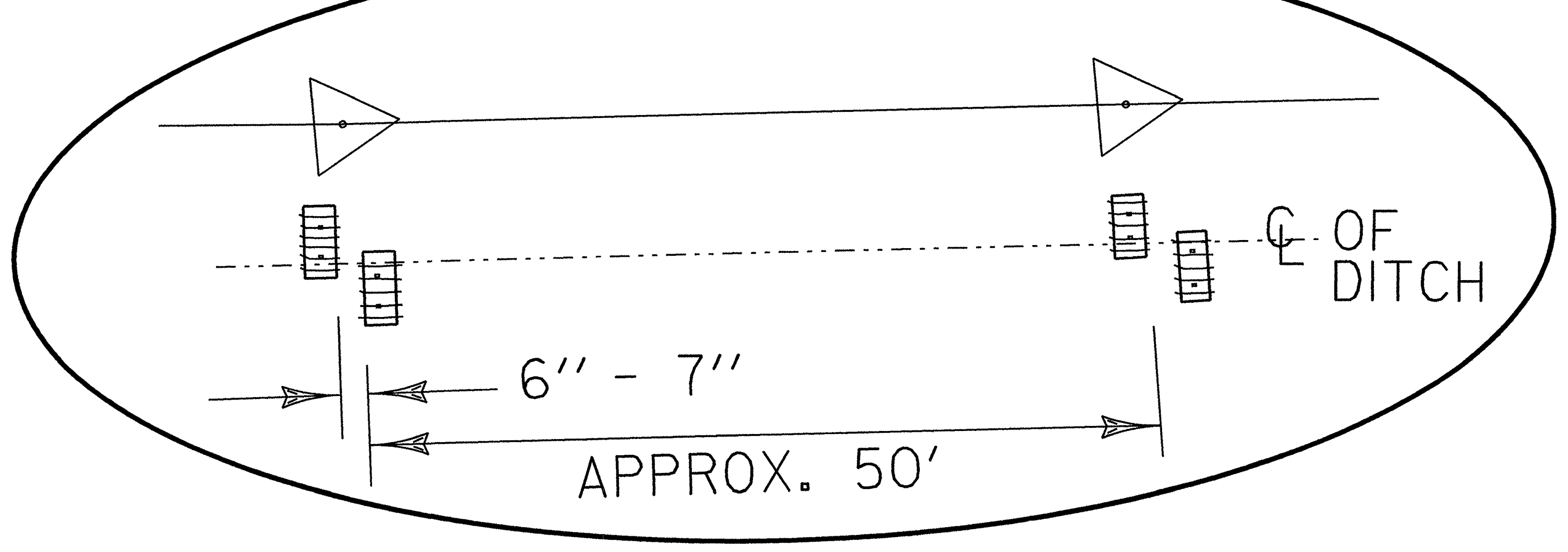
8.



9.

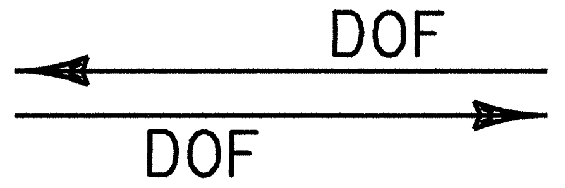


10.



GENERAL NOTES

1. EROSION CONTROL MATERIALS WILL BE PLACED AS ILLUSTRATED ON NEWLY CONSTRUCTED AREAS AS SOON AS POSSIBLE.
2. DURING CONSTRUCTION EVERY EFFORT WILL BE MADE TO KEEP DEBRIS AND SEDIMENT OUT OF THE DITCH. HAY BALES WILL BE USED AS ILLUSTRATED TO INSURE BANK STABILITY.
3. THE HAY BALES SHALL BE INSPECTED AND CLEANED AS NEEDED.



DIRECTION OF FLOW

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

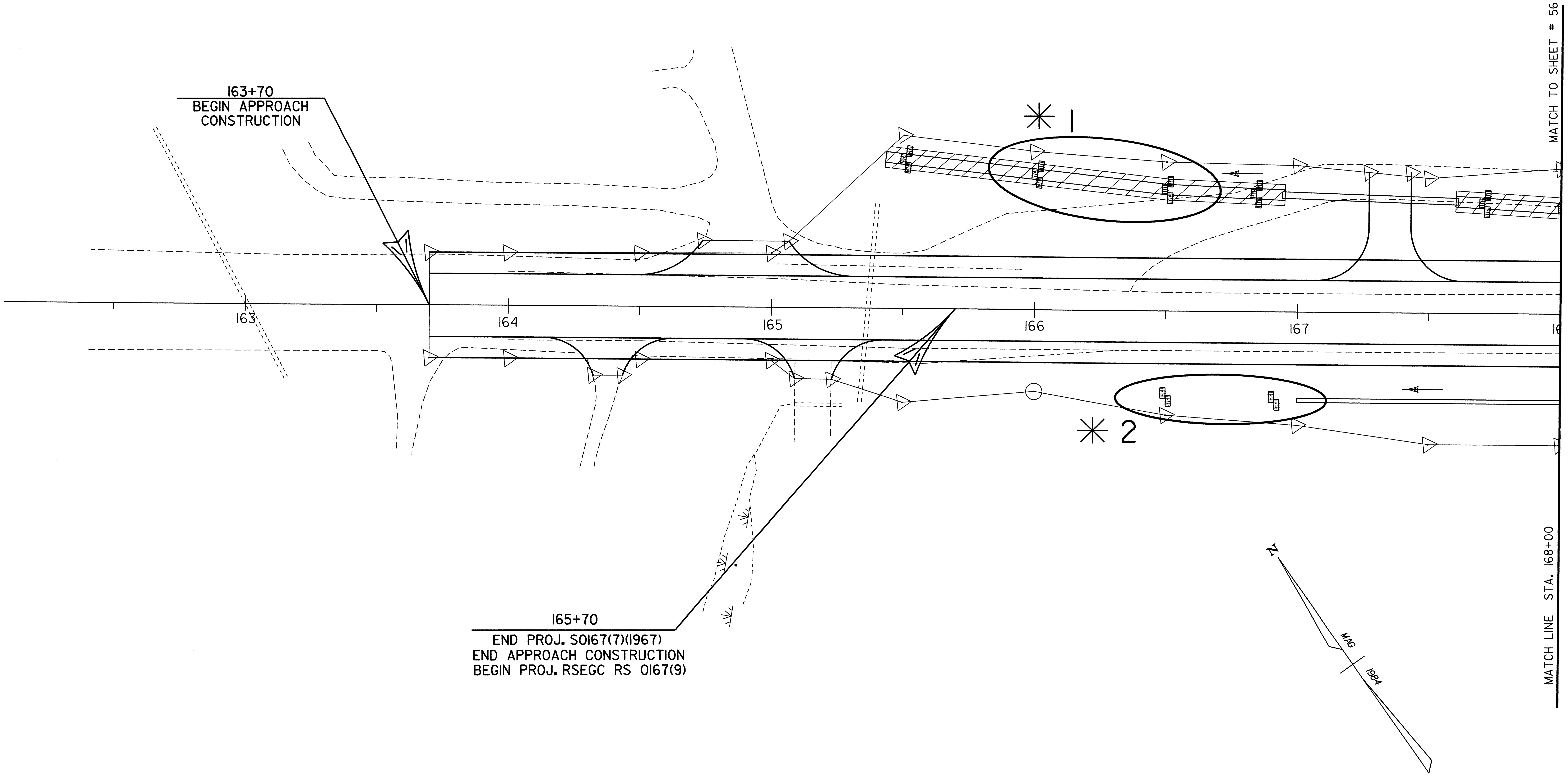
THIS SHEET IS FOR EROSION CONTROL USE ONLY

NOT TO SCALE

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

SURVEYED BY	FANTONI	DATE	1/87
DRAWN BY	SQUAD B	DATE	8/87
SQUAD LEADER	DELLA SANTA		
DESIGN FILE NO.	/SQDB/84E058/DE058ERO.DGN		
IPARM FILE	DE058ETY	DATE PLOTTED	05-NOV-1999
PROJ. NAME	MORETOWN &		MORETOWN - MIDDLESEX
PROJ. NO.	RSEGC-RS 0167(9)		BRS 0167(11)
SHEET 54 OF 243 SHEETS			

EROSION CONTROL PLANS



✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

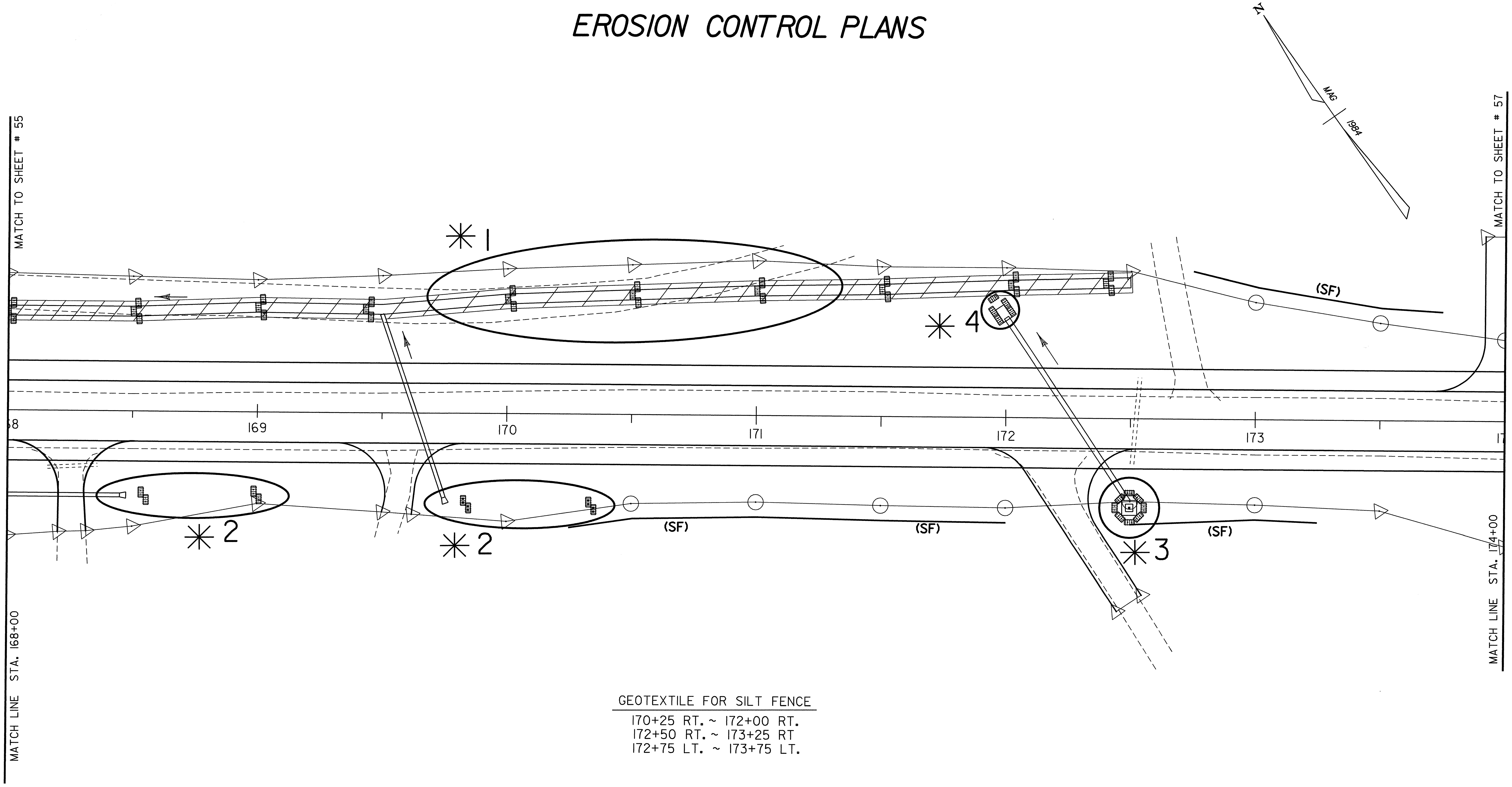
0 20 40
SCALE IN FEET

THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132ERI DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 55 OF 243 SHEETS

EROSION CONTROL PLANS



GEOTEXTILE FOR SILT FENCE

170+25 RT. ~ 172+00 RT.
172+50 RT. ~ 173+25 RT
172+75 LT. ~ 173+75 LT.

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

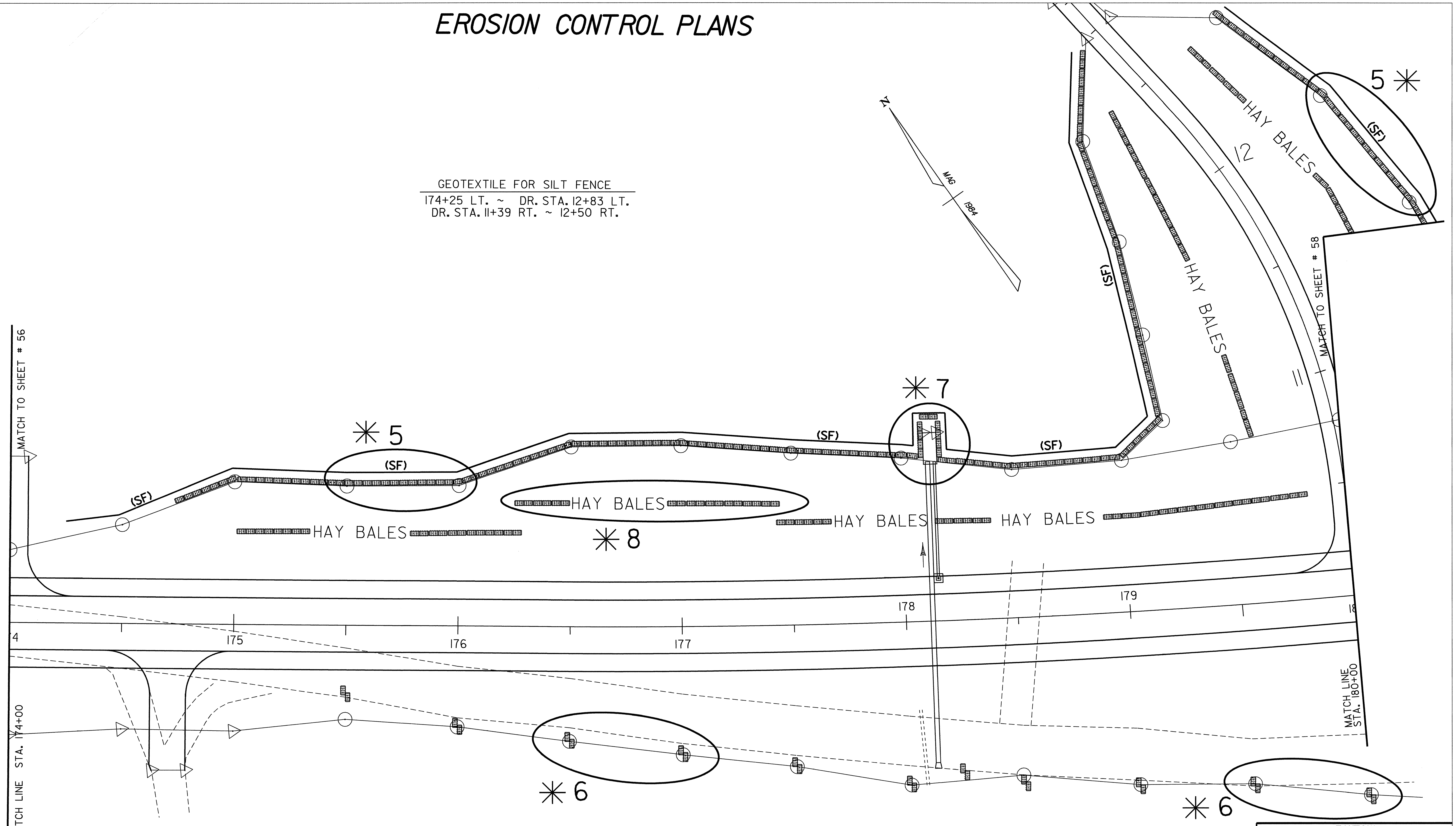
THIS SHEET IS FOR EROSION CONTROL USE ONLY

0 20 40
SCALE IN FEET

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132ER2 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 56 OF 243 SHEETS

EROSION CONTROL PLANS

GEOTEXTILE FOR SILT FENCE
174+25 LT. ~ DR. STA. 12+83 LT.
DR. STA. 11+39 RT. ~ 12+50 RT.



✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

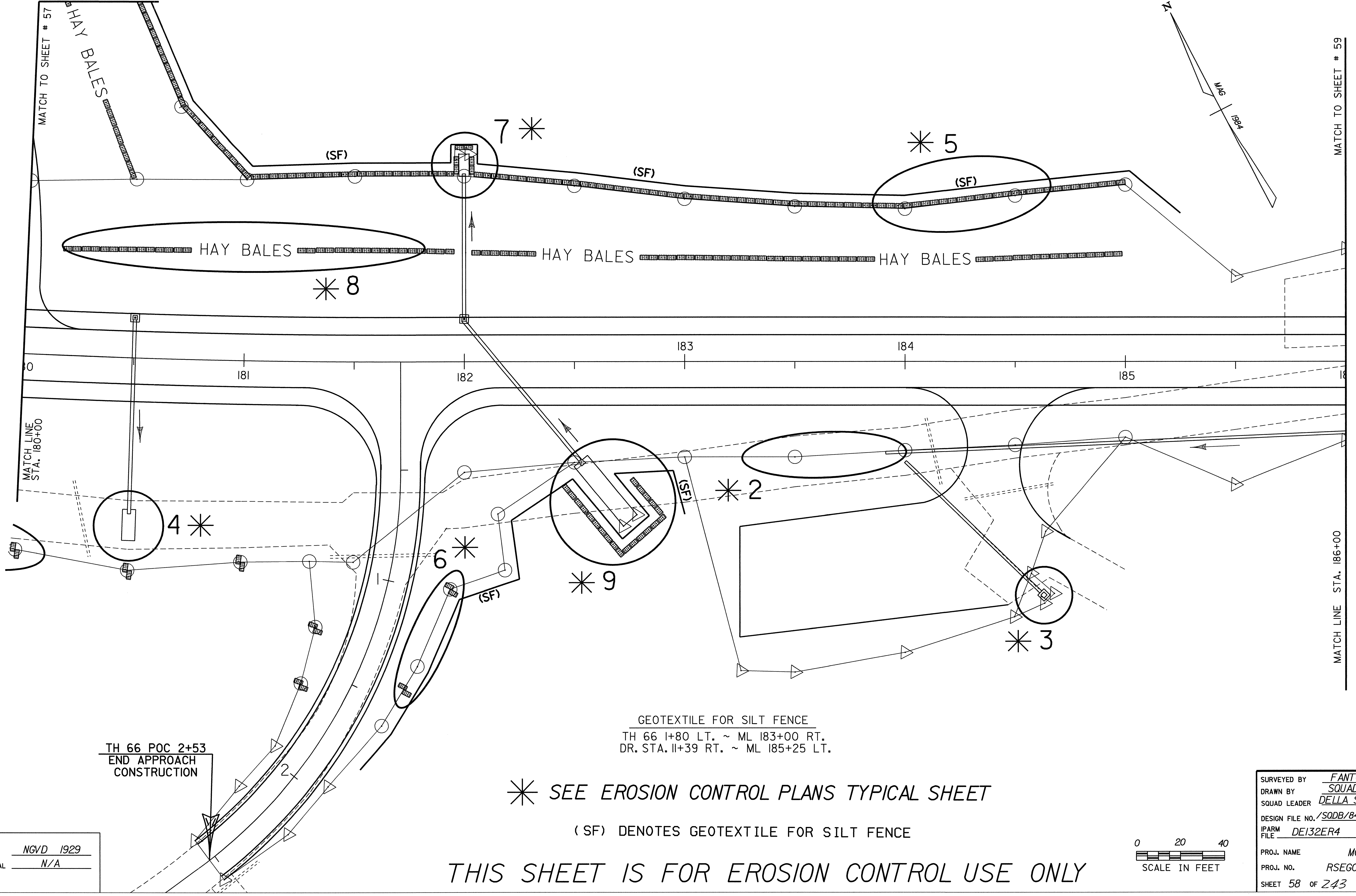
THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE IN FEET

SURVEYED BY	FANTONI	DATE	1/87
DRAWN BY	SQUAD B	DATE	8/87
SQUAD LEADER	DELLA SANTA		
DESIGN FILE NO.	/SQDB/84E058/DE058ERO.DGN		
IPARM FILE	DE132ER3	DATE PLOTTED	05-NOV-1999
PROJ. NAME	MORETOWN		
PROJ. NO.	RSEGC-RS 0167(9)		
SHEET	57 OF 243 SHEETS		

EROSION CONTROL PLANS



GEOTEXTILE FOR SILT FENCE
TH 66 1+80 LT. ~ ML 183+00 RT.
DR. STA. 11+39 RT. ~ ML 185+25 LT.

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

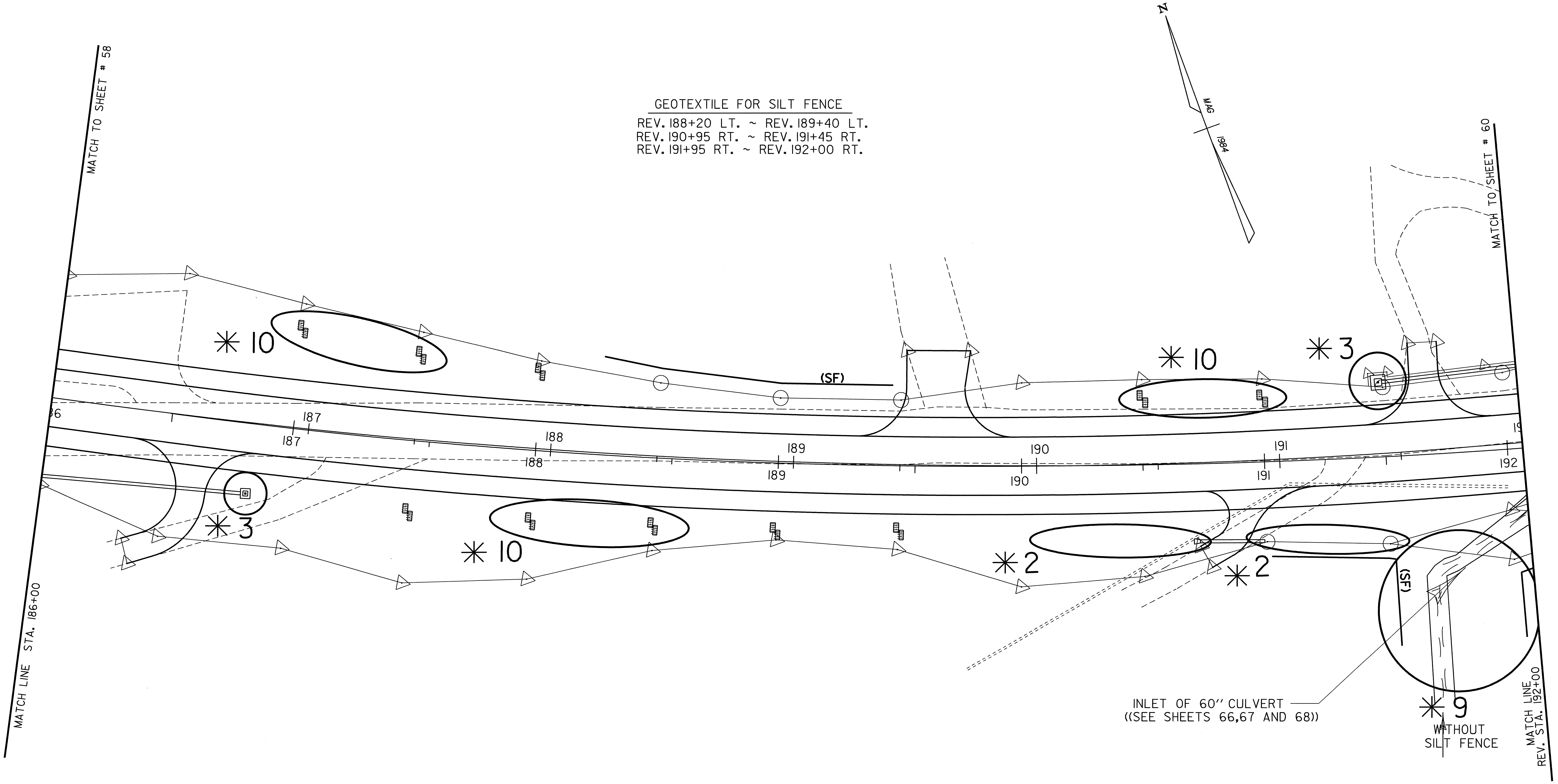
THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE IN FEET

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132ER4 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 58 OF 243 SHEETS

EROSION CONTROL PLANS



GEOTEXTILE FOR SILT FENCE

REV. 188+20 LT. ~ REV. 189+40 LT.
REV. 190+95 RT. ~ REV. 191+45 RT.
REV. 191+95 RT. ~ REV. 192+00 RT.

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

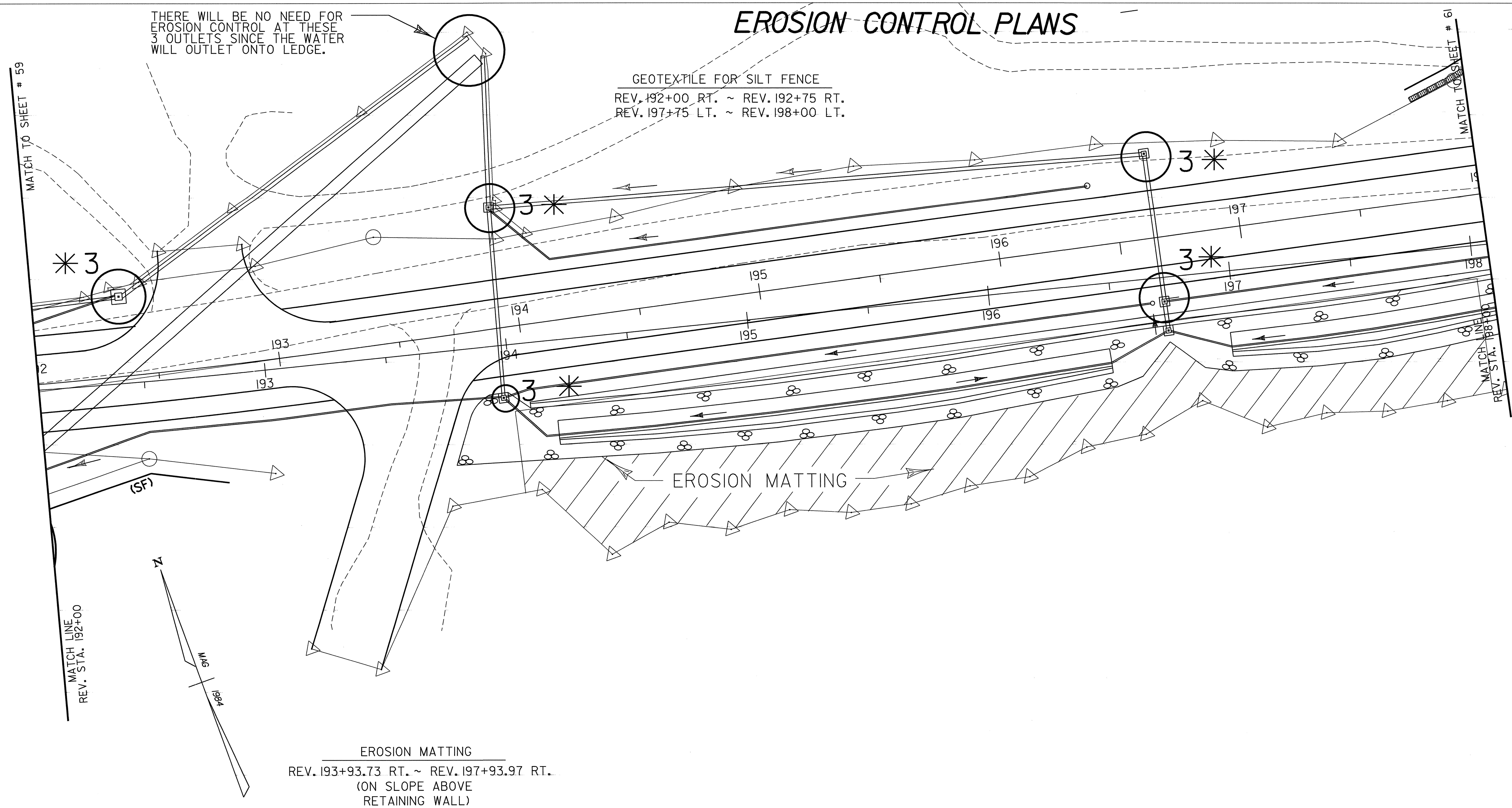
THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM

VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132ER5 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 59 OF 243 SHEETS

EROSION CONTROL PLANS



THERE WILL BE NO NEED FOR EROSION CONTROL AT THESE 3 OUTLETS SINCE THE WATER WILL OUTLET ONTO LEDGE.

GEOTEXTILE FOR SILT FENCE
REV. 192+00 RT. ~ REV. 192+75 RT.
REV. 197+75 LT. ~ REV. 198+00 LT.

EROSION MATTING
REV. 193+93.73 RT. ~ REV. 197+93.97 RT.
(ON SLOPE ABOVE
RETAINING WALL)
(SEE SPECIAL PROVISIONS)

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

DATUM

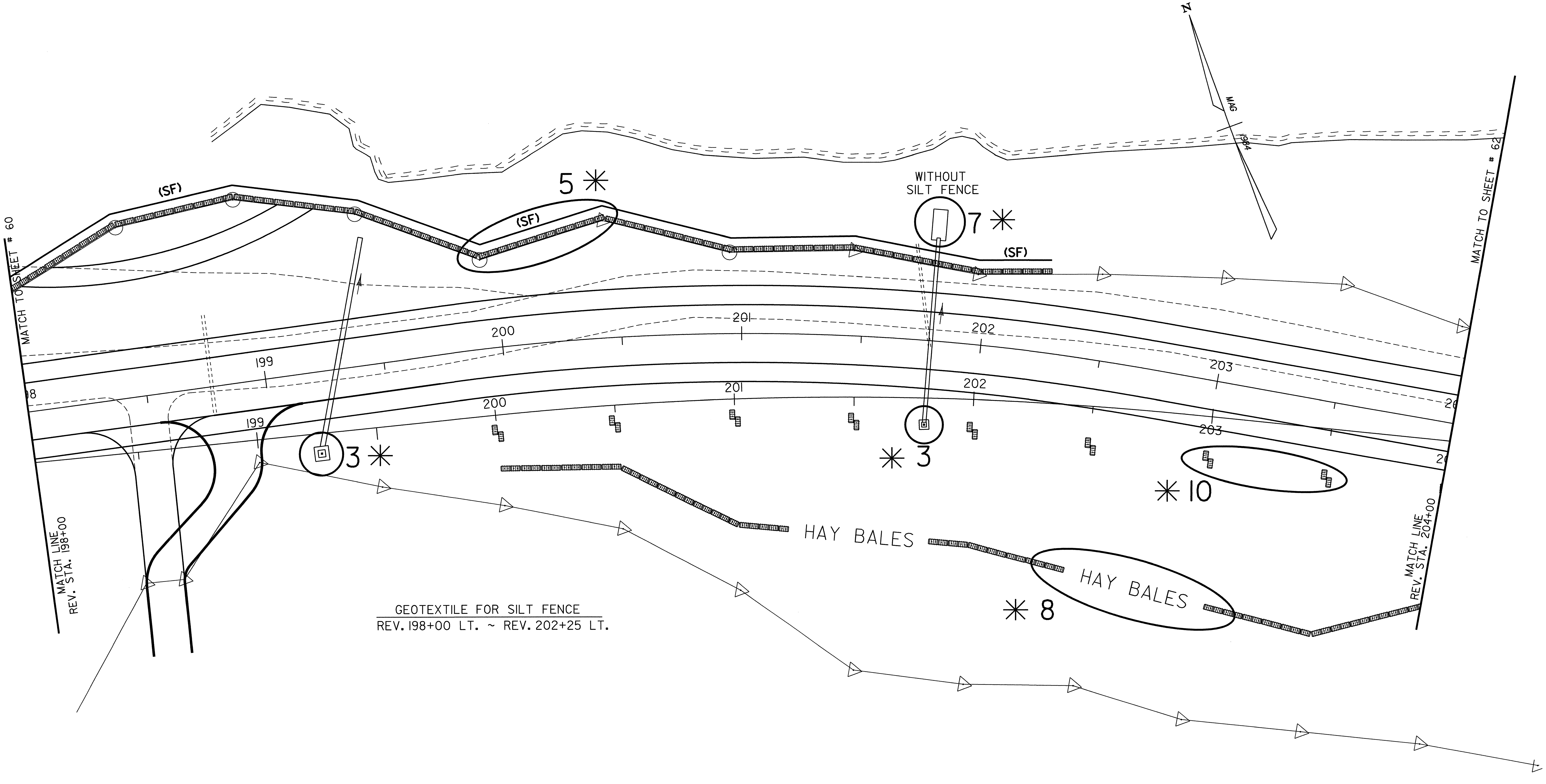
VERTICAL	NGVD 1929
HORIZONTAL	N/A

THIS SHEET IS FOR EROSION CONTROL USE ONLY

0 20 40
SCALE IN FEET

SURVEYED BY	FANTONI	DATE	1/87
DRAWN BY	SQUAD B	DATE	8/87
SQUAD LEADER	DELLA SANTA		
DESIGN FILE NO.	/SQDB/84E058/DE058ERO.DGN		
IPARM FILE	DE132ER6	DATE PLOTTED	25-APR-2000
PROJ. NAME	MORETOWN		
PROJ. NO.	RSEGC-RS 0167(9)		
SHEET 60	OF 243 SHEETS		

EROSION CONTROL PLANS



GEOTEXTILE FOR SILT FENCE
REV. 198+00 LT. ~ REV. 202+25 LT.

✳ *SEE EROSION CONTROL PLANS TYPICAL SHEET*

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE IN FEET

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132ER7 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 61 OF 243 SHEETS

EROSION CONTROL PLANS

GEOTEXTILE FOR SILT FENCE
REV. 205+25 LT. ~ REV. 210+03 LT.

SEE SHEET NUMBER 182 FOR QUANTITIES OF THIS ITEM WHICH ARE PAID FOR UNDER THE MORETOWN- MIDDLESEX PROJECT.

✳ *SEE EROSION CONTROL PLANS TYPICAL SHEET*

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

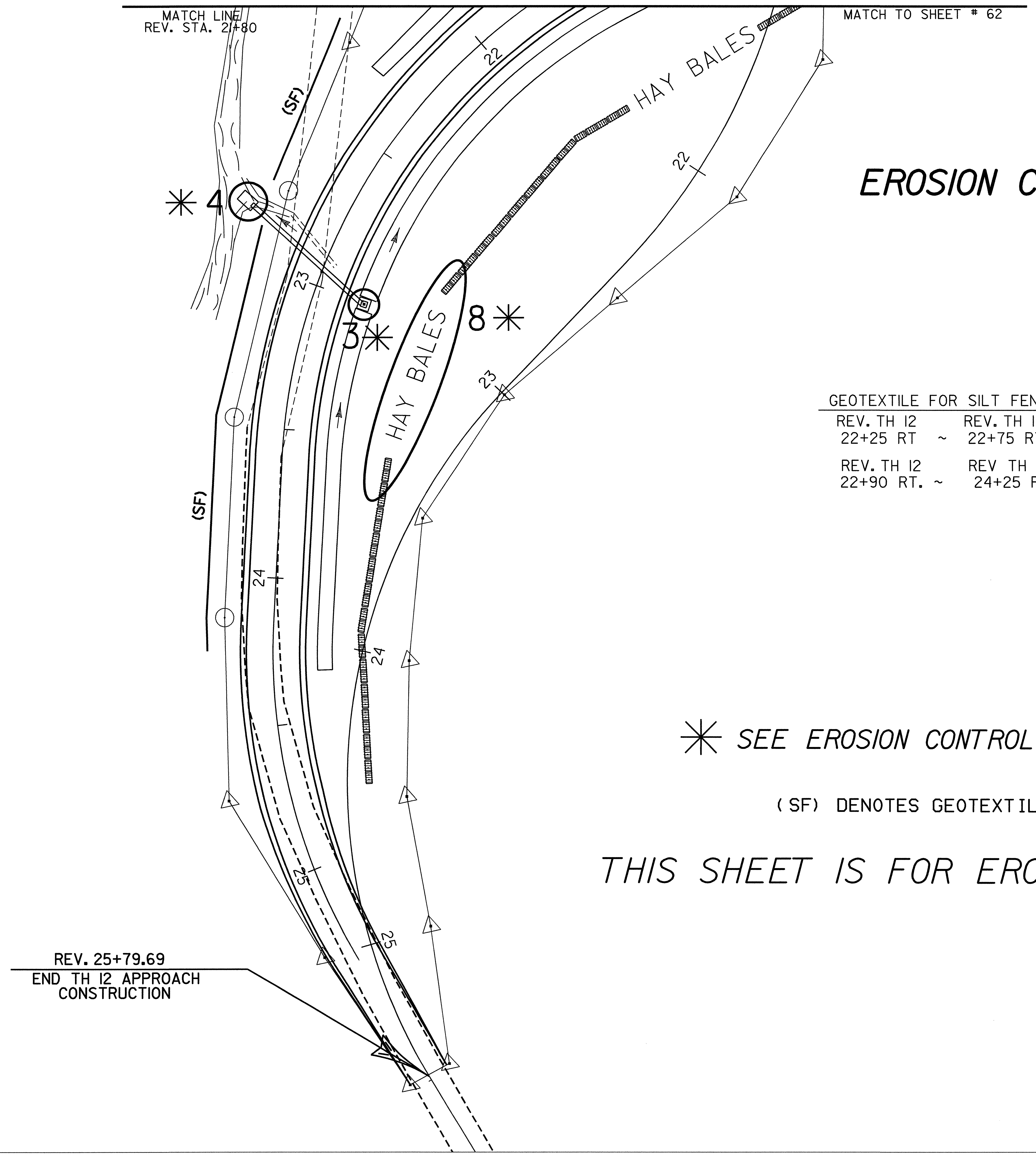
THIS SHEET IS FOR EROSION CONTROL USE ONLY

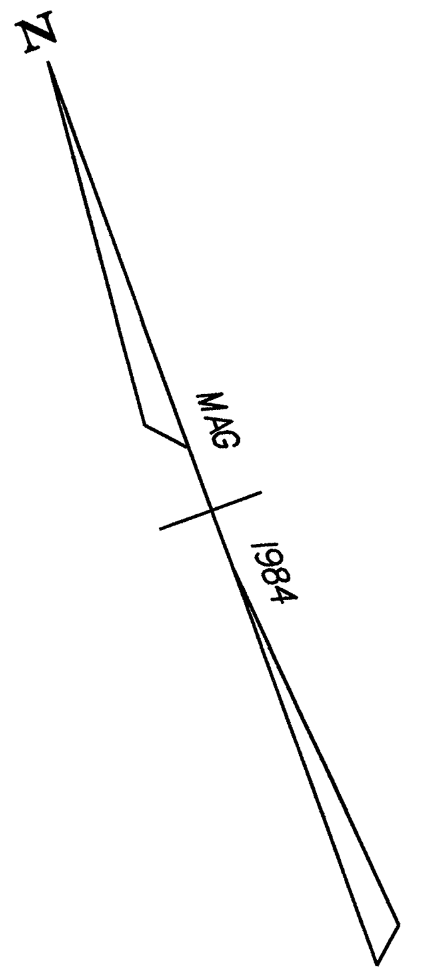
0 20 40
SCALE IN FEET

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

SURVEYED BY	FANTONI	DATE	1/87
DRAWN BY	SQUAD B	DATE	8/87
SQUAD LEADER	DELLA SANTA		
DESIGN FILE NO.	/SQDB/84E058/DE058ER0.DGN		
IPARM FILE	DE132ER8	DATE PLOTTED	05-NOV-1999
PROJ. NAME	MORETOWN		
PROJ. NO.	RSEGC-RS 0167(9)		
SHEET	62	OF	243 SHEETS

EROSION CONTROL PLANS





GEOTEXTILE FOR SILT FENCE

REV. TH 12 22+25 RT ~ REV. TH 12 22+75 RT.

REV. TH 12 22+90 RT. ~ REV TH 12 24+25 RT.

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

THIS SHEET IS FOR EROSION CONTROL USE ONLY

0 20 40
SCALE IN FEET

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ER0.DGN
IPARM FILE DE132ER9 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 63 OF 243 SHEETS

EROSION CONTROL PLANS

GEOTEXTILE FOR SILT FENCE
REV. TH 2 33+25 LT. ~ 37+25 LT.
REV. TH 2 33+75 RT. ~ 35+00 RT.

✳ SEE EROSION CONTROL PLANS TYPICAL SHEET

(SF) DENOTES GEOTEXTILE FOR SILT FENCE

THIS SHEET IS FOR EROSION CONTROL USE ONLY

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE IN FEET

SURVEYED BY FANTONI DATE 1/87
DRAWN BY SQUAD B DATE 8/87
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058ERO.DGN
IPARM FILE DE132E10 DATE PLOTTED 05-NOV-1999
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 64 OF 243 SHEETS

DRIVE AT STATION 180+00 LT
PROJECT: MORETOWN RSEGC RS0167(9)
SHEET 65 OF 243

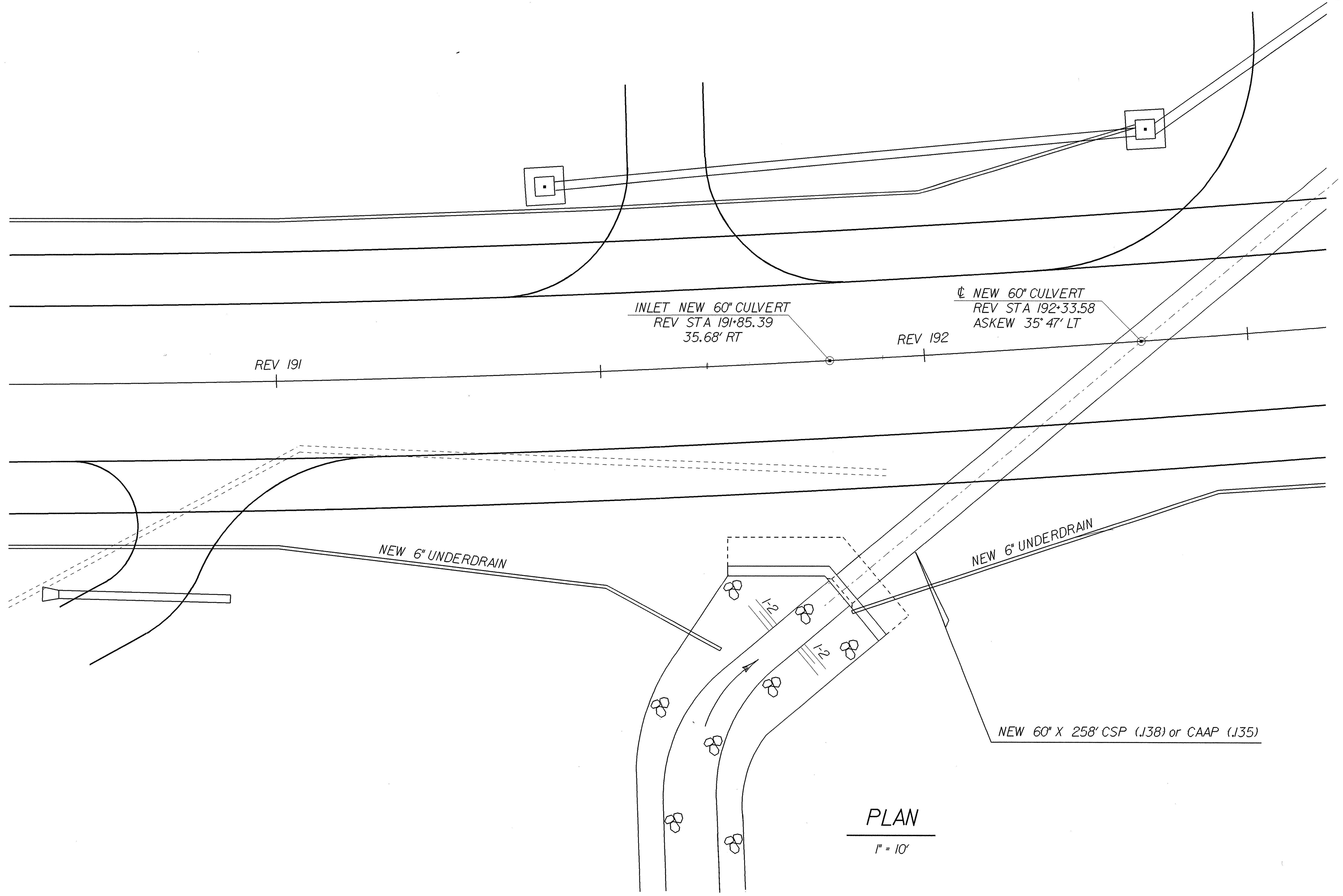
SURV. 193+00 = REV. 192+96.94
Skew Section 51° 12' LT.

SURV. 192+36 = REV. 192+29.74
Skew Section 36° 53' LT.

REV. 191+85 RT. ~ REV. 193+96 LT.
NEW 60" × 258' CSP (.138) OR CAAP (.135)
W/ INLET DITCH W/ STONE FILL, TYPE II

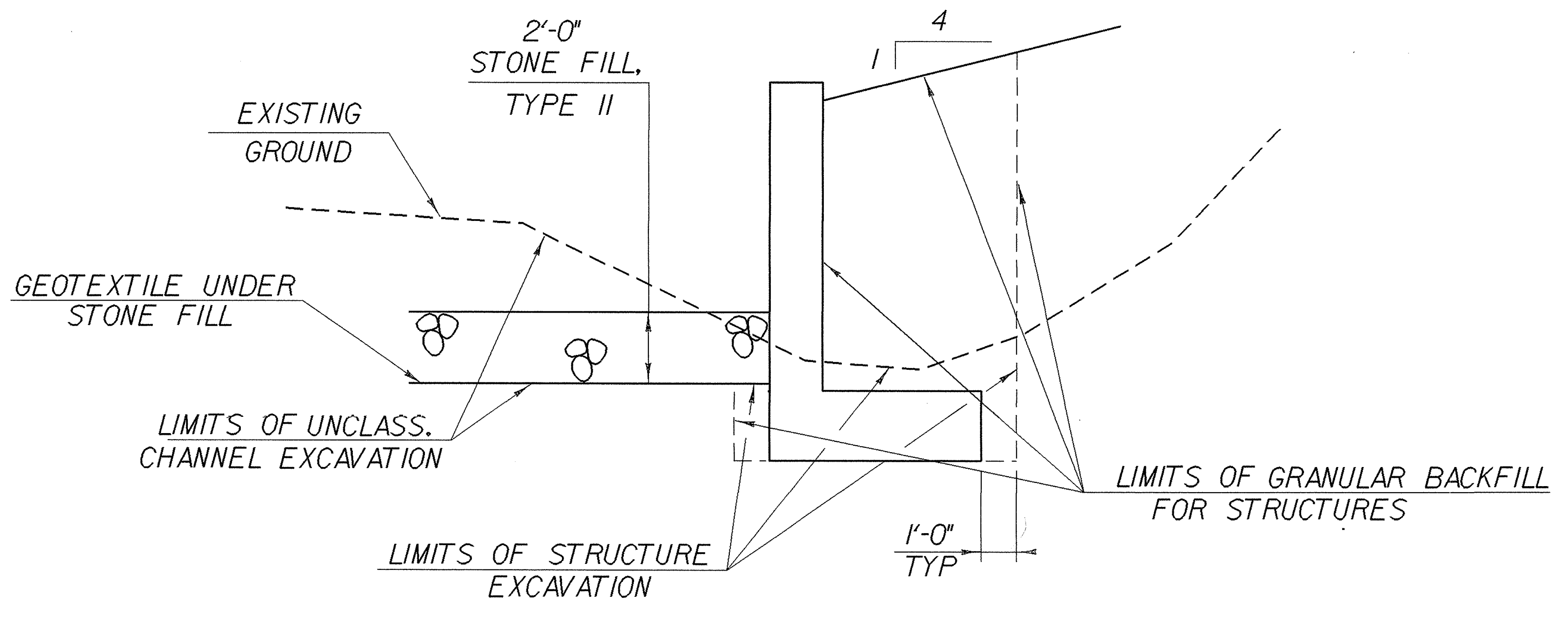
10'
SCALE

PROJECT NAME:
MORETOWN - MIDDLESEX
RSEGC - RS 0167(9)
SHEET 66 OF 243



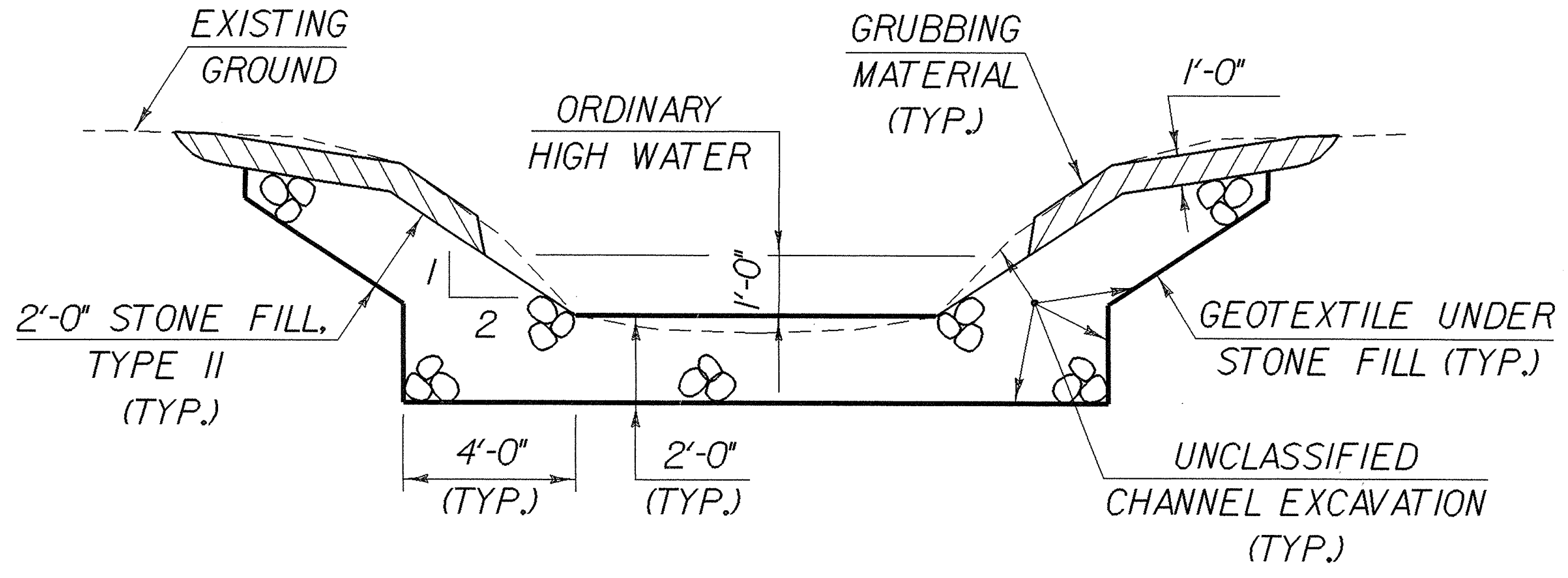
PLAN

1" = 10'



EARTHWORK TYPICAL

(NOT TO SCALE)

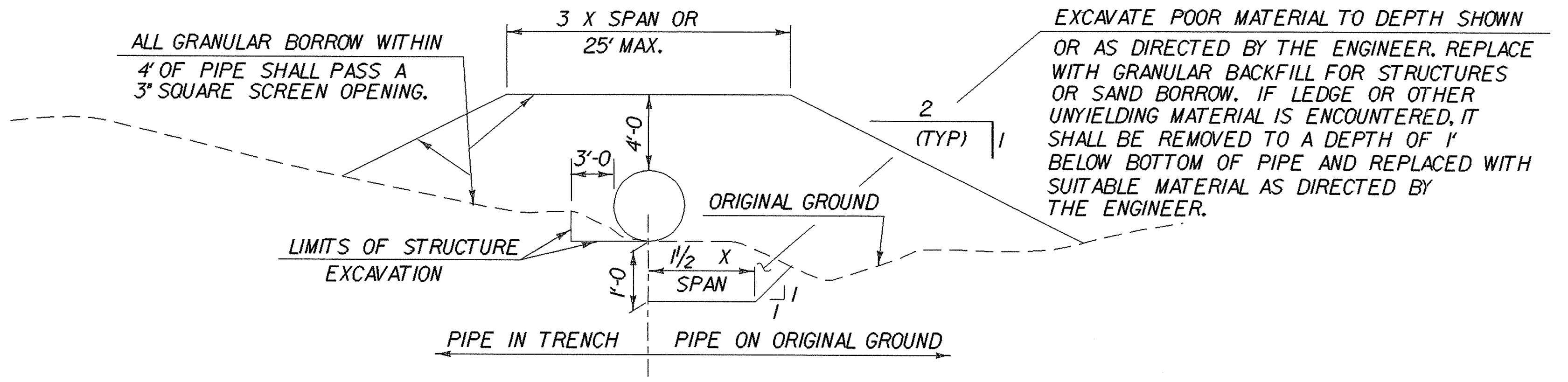


TYPICAL CHANNEL SECTION

(NOT TO SCALE)

~ NOTES ~

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AND THE LATEST A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGWAY BRIDGES. DESIGN IS FOR HS-25 LIVE LOAD.
2. WHEN NORMAL CONSTRUCTION OR REGULAR TRAFFIC IS MAINTAINED OVER THE PIPE THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF THREE (3) FEET OF COMPACTED MATERIAL.
3. ALUMINUM PIPE WHICH IS TO BE IN CONTACT WITH CONCRETE SHALL HAVE CONTACT SURFACES THOROUGHLY COATED WITH ZINC CHROMATE OR BITUMINOUS OR ASPHALTIC PAINT.



EXCAVATION AND BACKFILL DETAILS

REINFORCING STEEL SCHEDULE

NO. PCS.	SIZE	LENGTH	MARK	TYPE	A	B	C	D
			HEADWALL					
9	5	15-6	HW501	STR				
✳32	↕	5-6	HW502	↕				
14		3-11	HW503					
28		8-5	HW505					
18		13-4	HW506	STR				
14		4-11	HW504	17			1-0	3-11
8	5	4-0	HW507	17		1-6	1-0	1-6
			WINGWALL					
9	5	17-5	W501	STR				
✳36	↕	5-6	W502	↕				
15		3-11	W503					
31		8-5	W505					
18		15-4	W506	STR				
16		4-11	W504	17			1-0	3-11
8	5	4-0	W507	17		1-6	1-0	1-6

NOTES FOR REINF. STEEL

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. ALL DIMENSIONS ARE OUT TO OUT.
4. ▲ DENOTES BARS TO BE CUT IN FIELD.
5. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

INLET HEADWALL ESTIMATED QUANTITIES

NO.	ITEM	UNIT	TOTAL	FINAL
204.25	STRUCTURE EXCAVATION	CY	30	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY	70	
501.25	CONCRETE, CLASS "B"	CY	26	
507.15	REINFORCING STEEL	Lb	2100	

THESE QUANTITIES ARE INCLUDED IN THE ROADWAY QUANTITIES SHOWN ON SHEET NO. 13

STATE OF VERMONT
AGENCY OF TRANSPORTATION

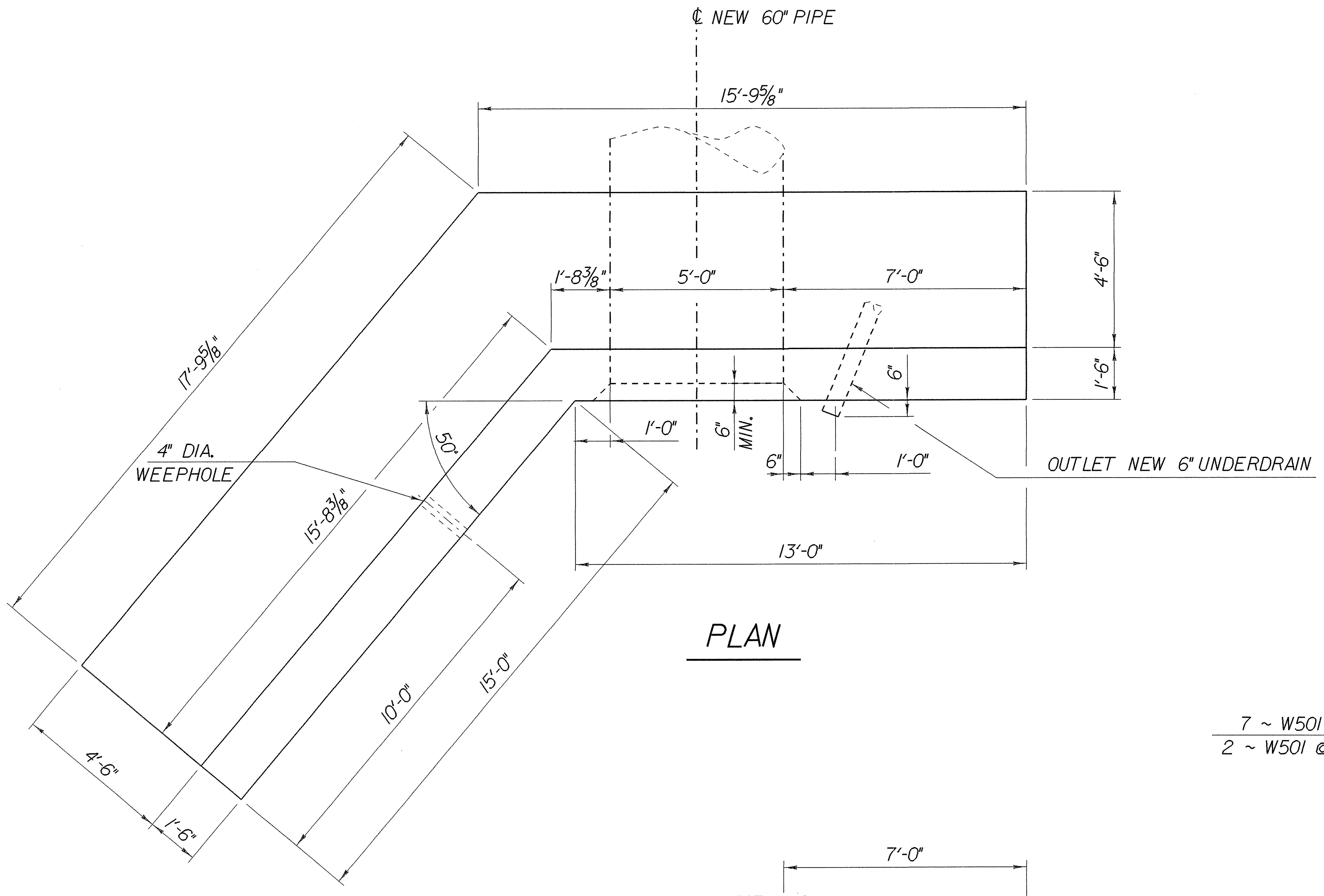
Town Of	MORETOWN	Bridge No.
		Log Sta.
Highway No.	VT RTE 100	Surv. Sta.

NEW 60" X 258' CULVERT UNDER VT 100
INLET CHANNEL & HEADWALL QUANTITIES

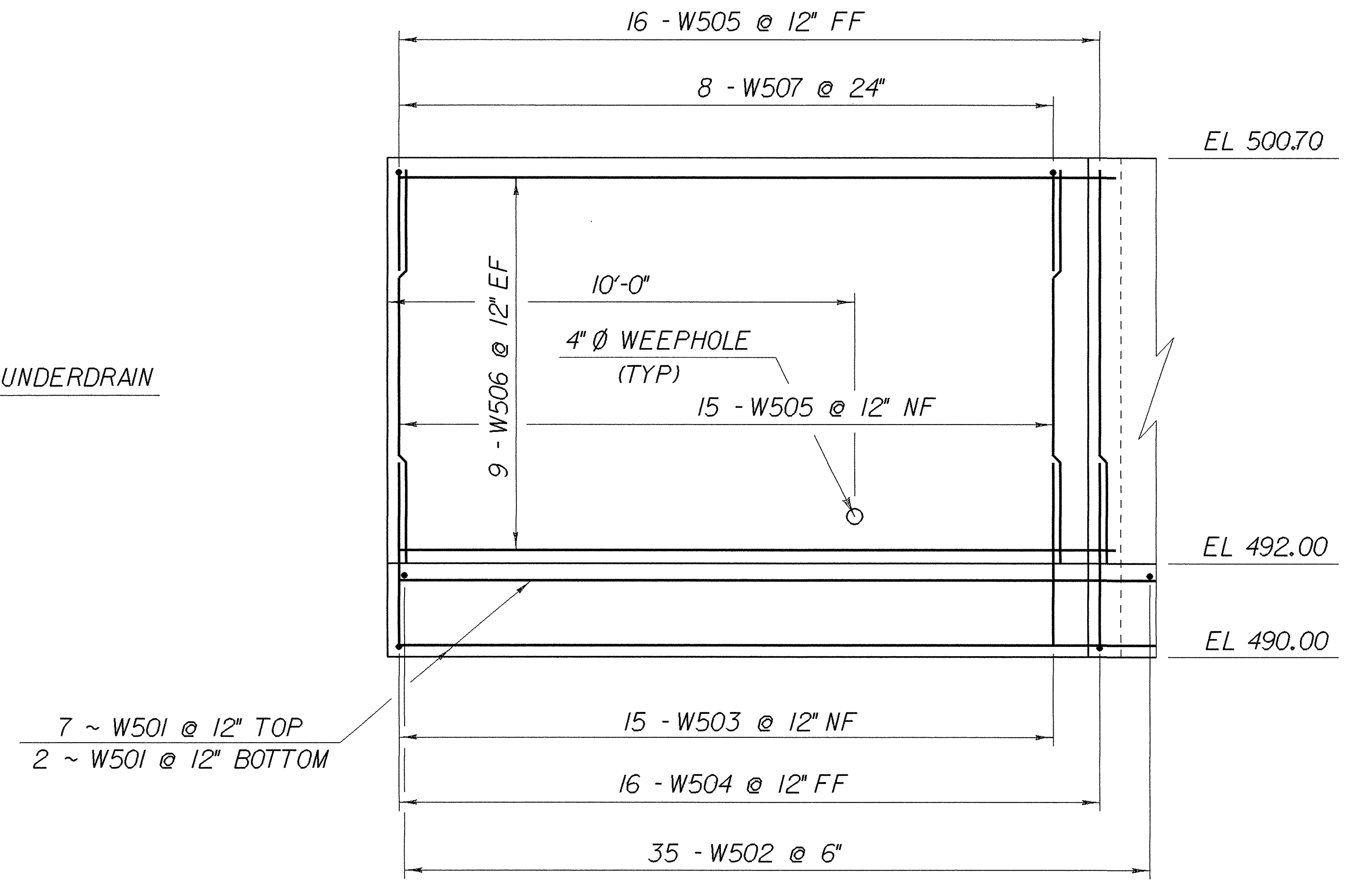
Designed By	R. WHITCOMB	Drawn By	R. WHITCOMB
Checked By G. ROY	Date 3/95	Bridge Design Supervisor J.H. WEAVER	Date 3/95

PROJECT MORETOWN
PROJECT NO. RS EGC-RS 0167 (9)
I.G.C. Info. /str3/78el32/sel32.dgn sel32chj
Bridge Sheet No.
Sheet 67 of 243

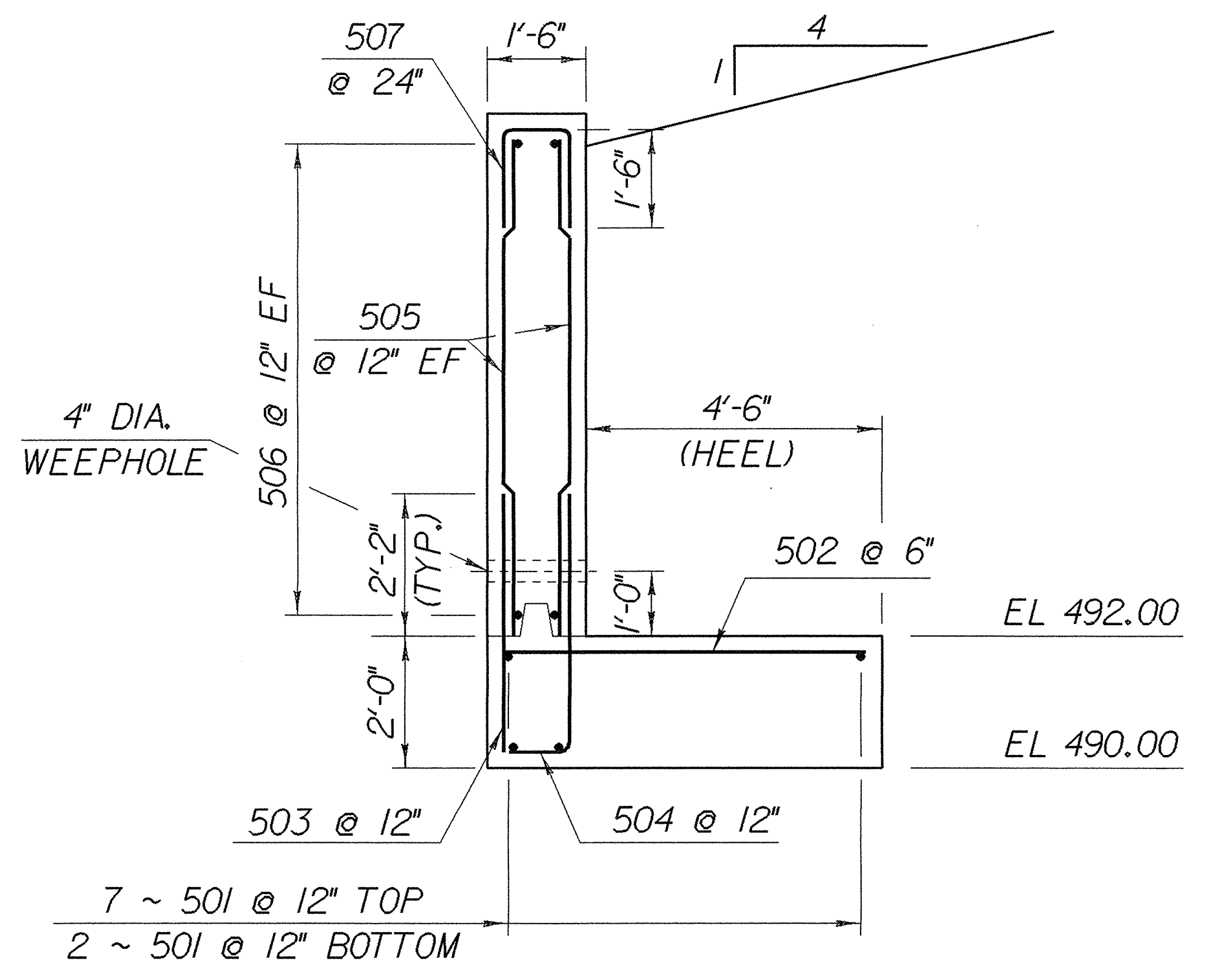
PLOTTED 9-MAR-1995 14:12



PLAN



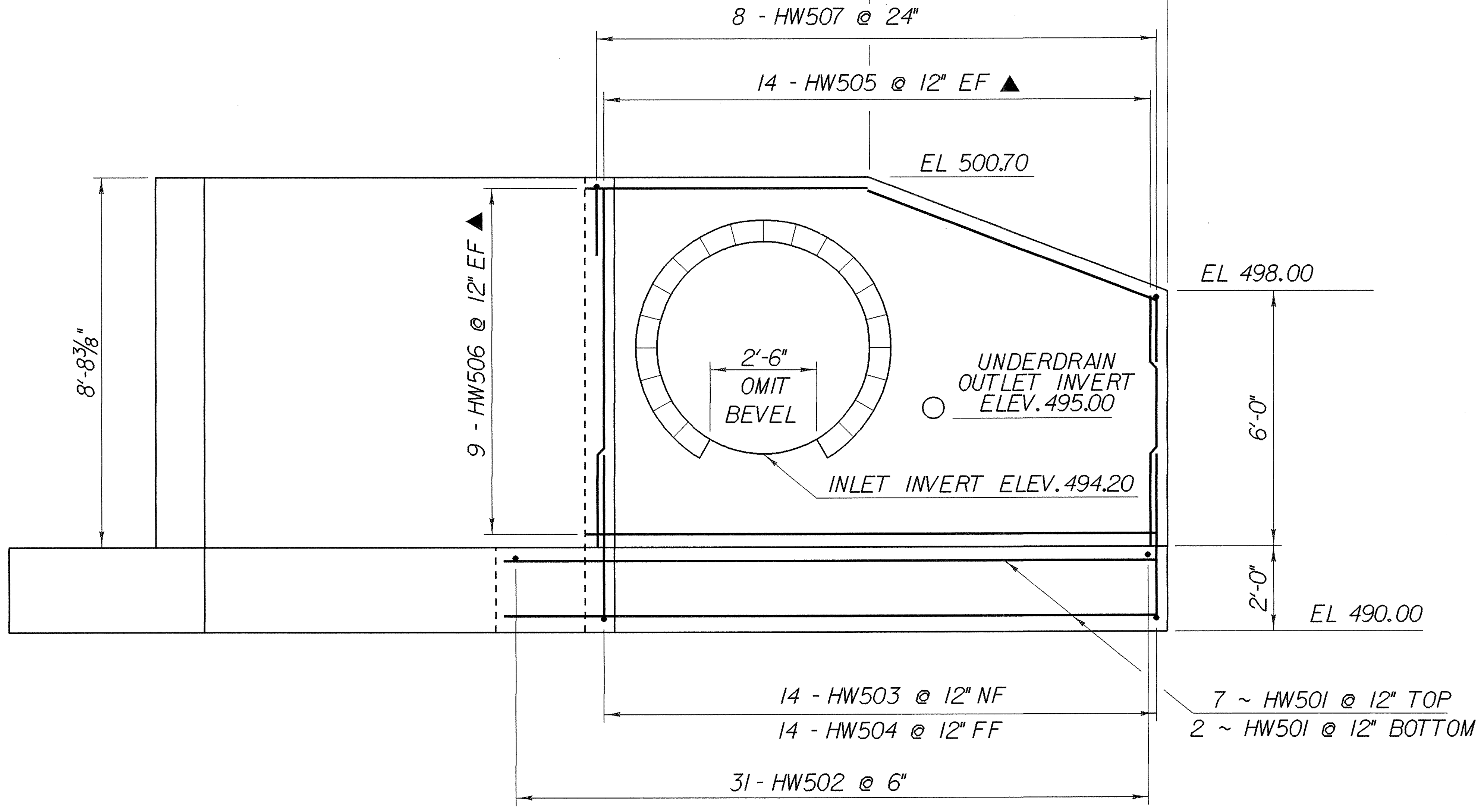
WINGWALL ELEVATION



HEADWALL & WINGWALL TYPICAL

SCALE: ⅜" = 1'-0"

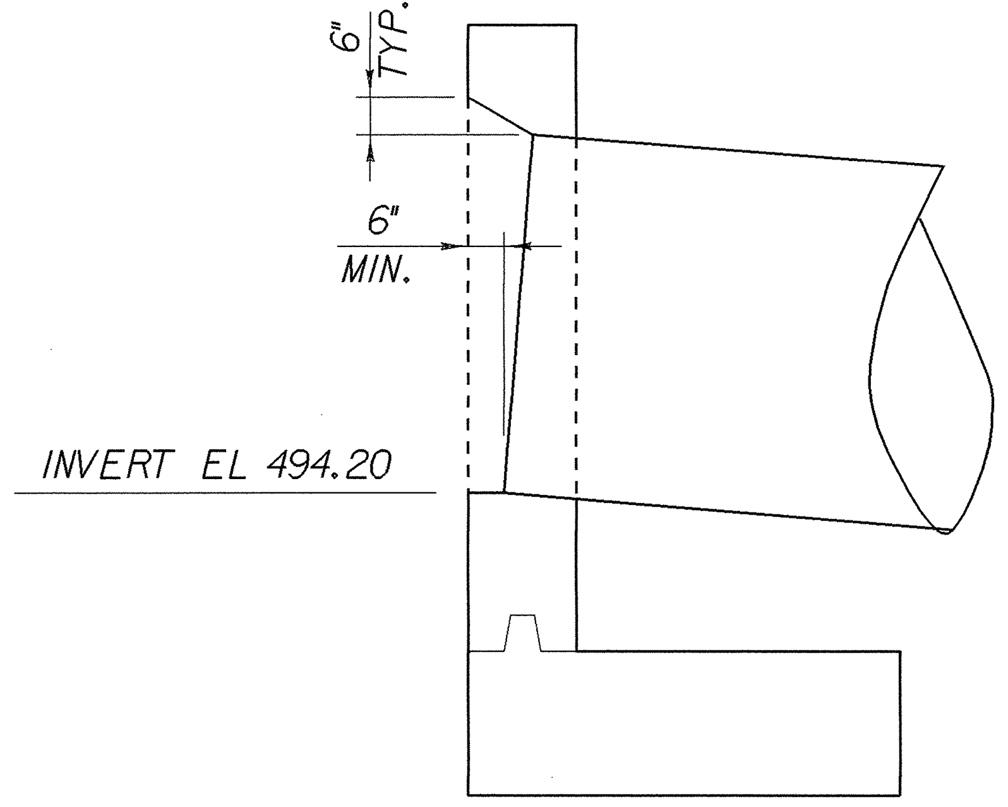
PREFIX FOR HEADWALL = HW
PREFIX FOR WINGWALL = W



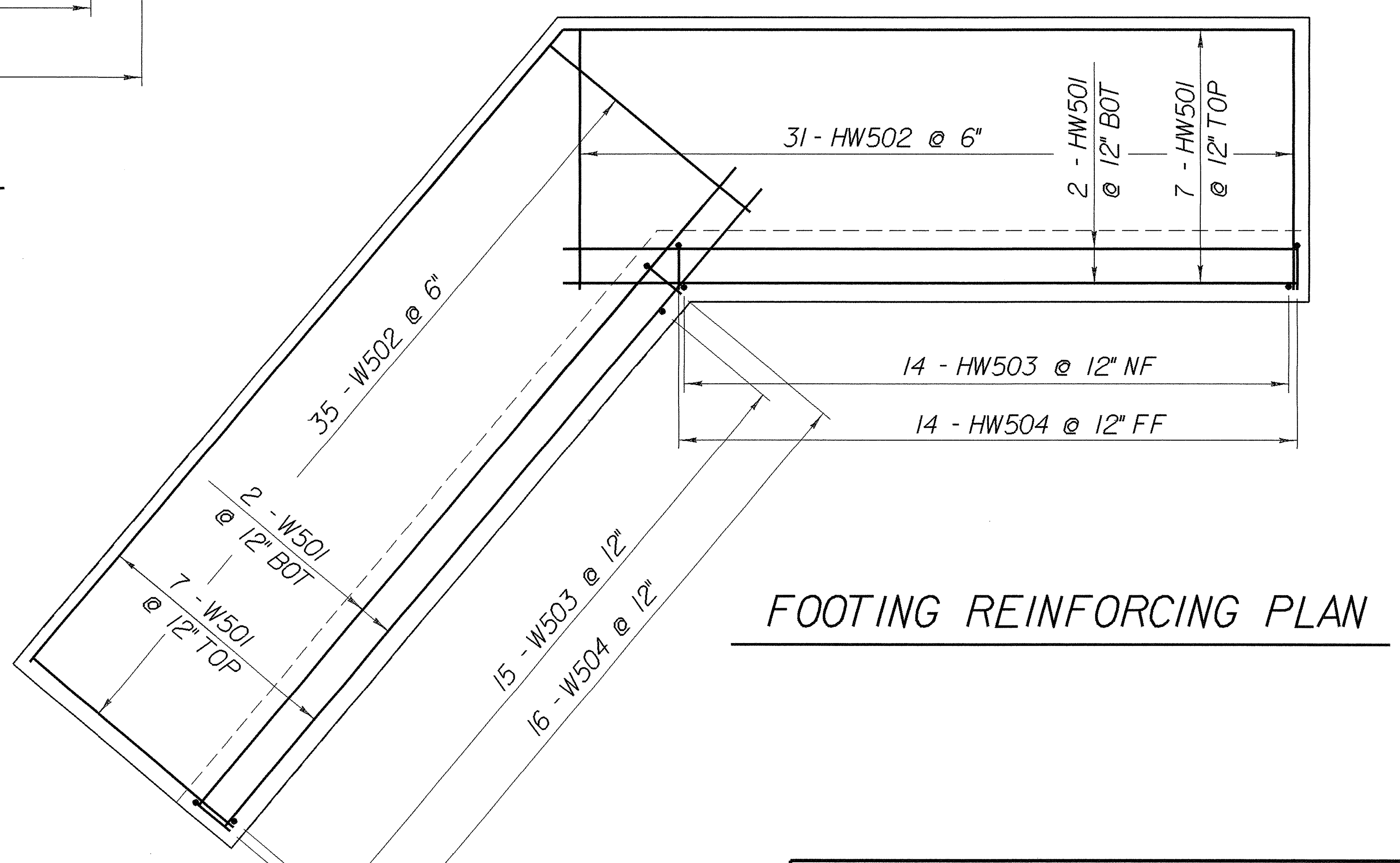
ELEVATION

INLET HEADWALL DETAILS

SCALE: ⅜" = 1'-0"



BEVELED INLET DETAILS



FOOTING REINFORCING PLAN

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	MORETOWN	Bridge No. Log Sta.
Highway No.	VT RTE 100	Surv. Sta.
NEW 60" X 258' CULVERT UNDER VT 100		
INLET HEADWALL DETAILS		
Designed By R. WHITCOMB		Drawn By R. WHITCOMB
Checked By G. ROY	Date 3/95	Bridge Design Supervisor J.H. WEAVER Date 3/95
PROJECT MORETOWN		PROJECT NO. RS EGC-RS 0167(9)
I.G.C. Info. /str3/78el32/sel32.dgn		sel32hw.l
Bridge Sheet No.		Sheet 68 of 243

PLOTTED 9-MAR-1995 14:13

✓ = PLANTED
STW 5-28-02

LEGEND

✳	NEW TREE
☁	NEW SHRUB PLANTING AREA
⊙	NEW SHRUB
△	NEW BITTERSWEET VINE
⊠	NEW WOODBINE/VIRGINIA CREEPER VINE
⊕	NEW VALIENT GRAPE VINE OR SUMMER GRAPE VINE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40
SCALE IN FEET

LANDSCAPE PLAN

SURVEYED BY ________ DATE ________
DRAWN BY K.RYAN DATE 2/00
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132L2-3 DATE PLOTTED 17-FEB-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 70 OF 243 SHEETS

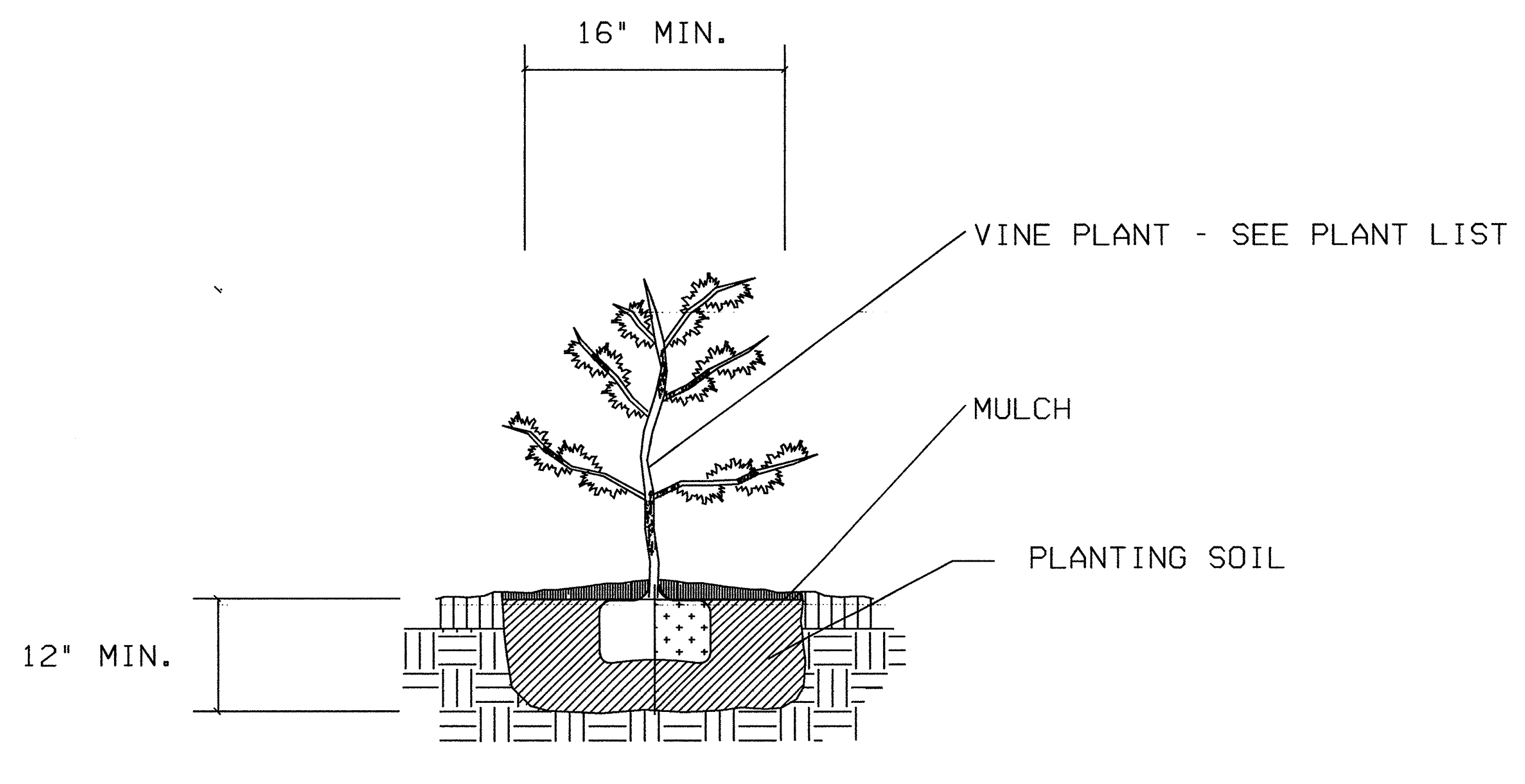
LEGEND

○	NEW SHRUB
☒	PERENNIAL PLANTING AREA

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

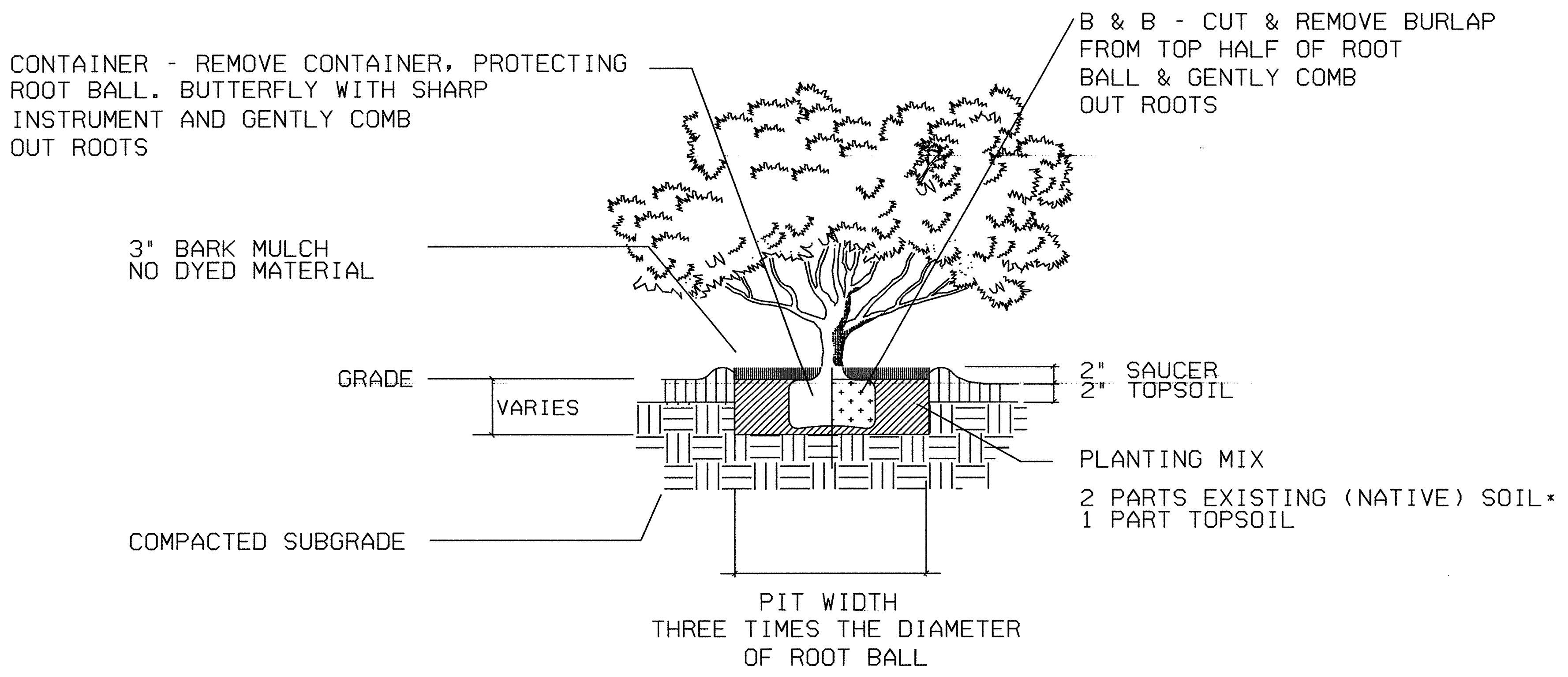
LANDSCAPE PLAN

SURVEYED BY ______ DATE ______
DRAWN BY K.RYAN DATE 2/00
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/DE058.DGN
IPARM FILE DE132L3B DATE PLOTTED 17-FEB-2000
PROJ. NAME MORETOWN
PROJ. NO. RSEGC-RS 0167(9)
SHEET 71 OF 243 SHEETS



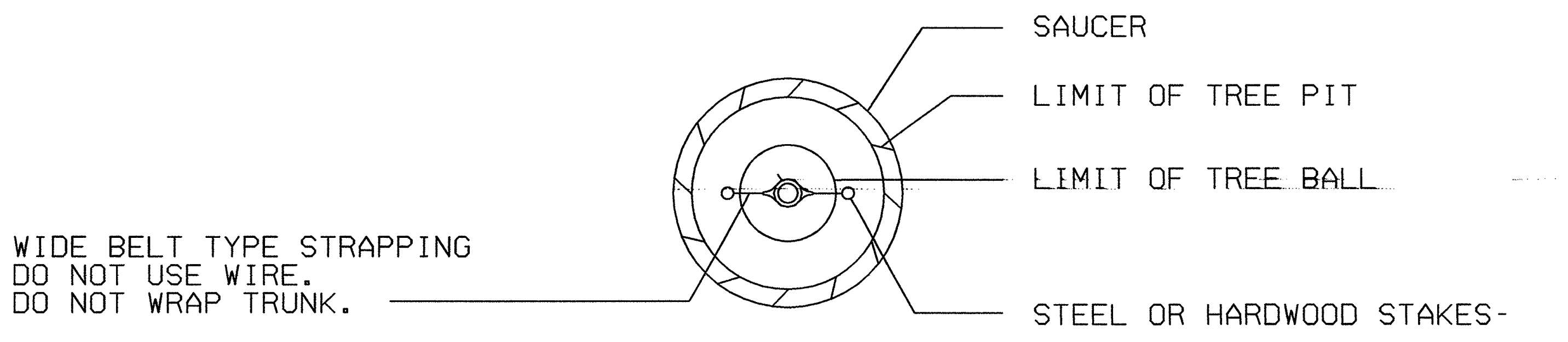
VINE INSTALLATION DETAIL

NOT TO SCALE



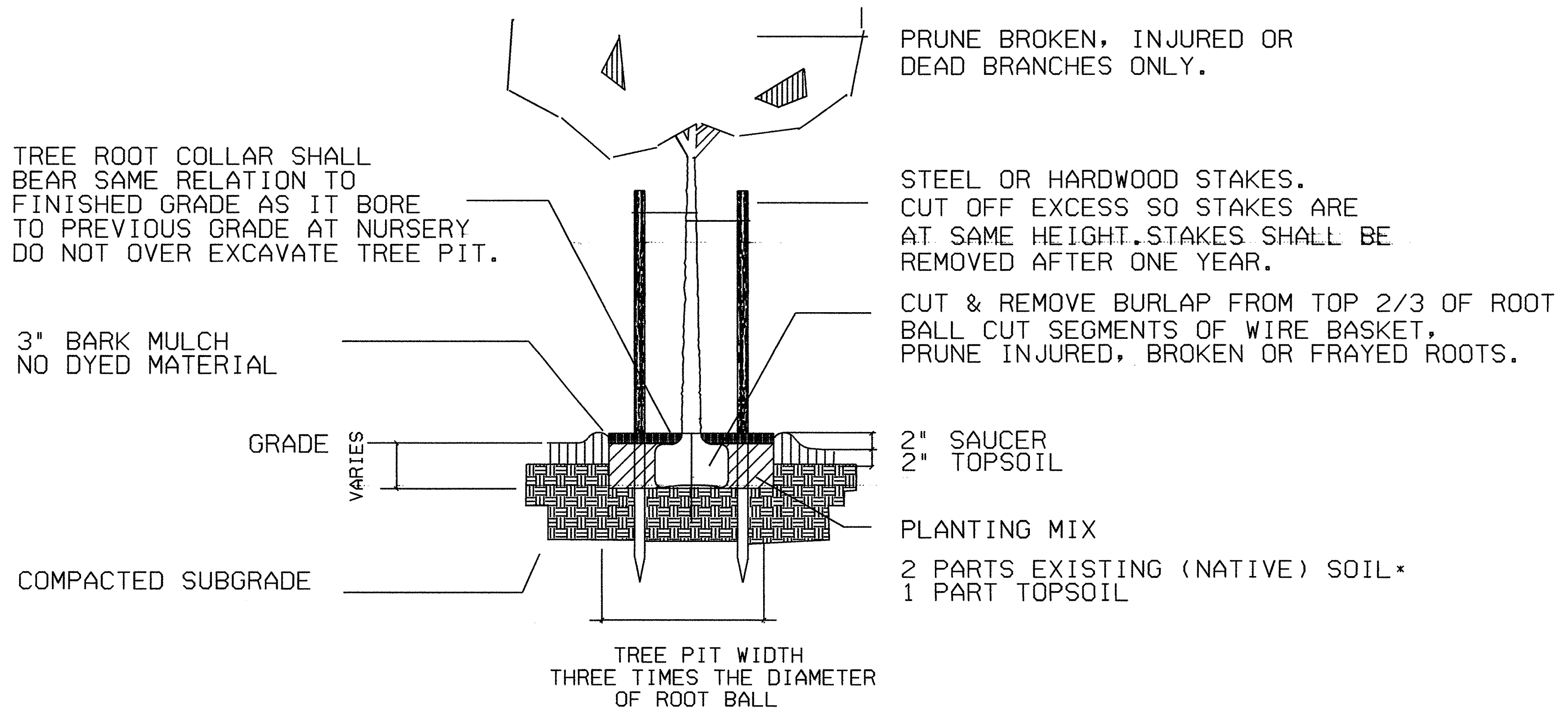
SHRUB INSTALLATION DETAIL

NOT TO SCALE



PLAN

NOT TO SCALE

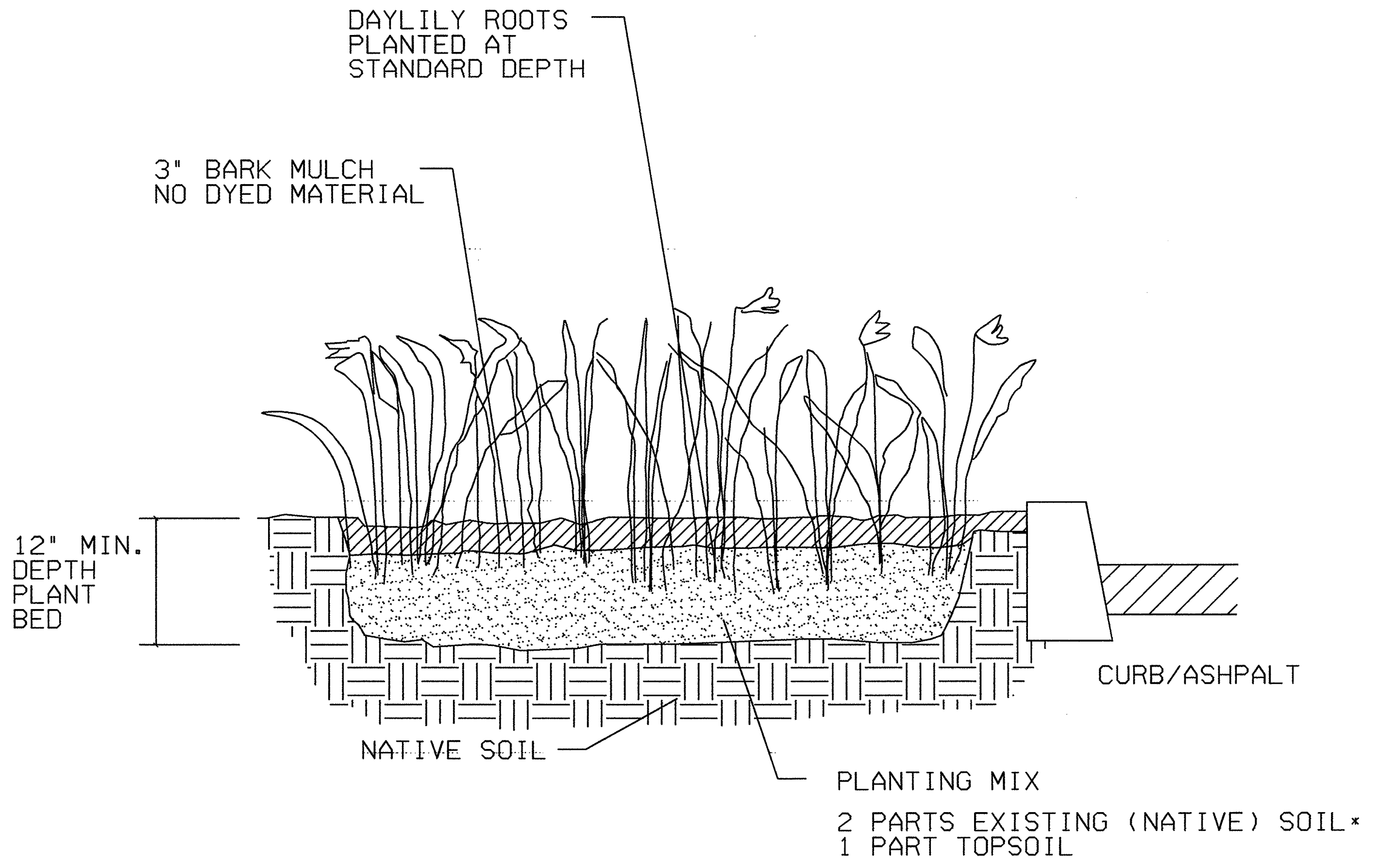


SECTION/ELEVATION

TYPICAL TREE PLANTING

NOT TO SCALE

* IF THE NATIVE SOIL FOUND IN PLANT PIT AREA IS CONSIDERED BY THE RESIDENT ENGINEER TO BE UNSUITABLE FOR PLANTING MIX, THE CONTRACTOR SHALL SUBSTITUTE TOPSOIL FOR THE TWO PARTS EXISTING SOIL.



PERENNIAL PLANTING DETAIL

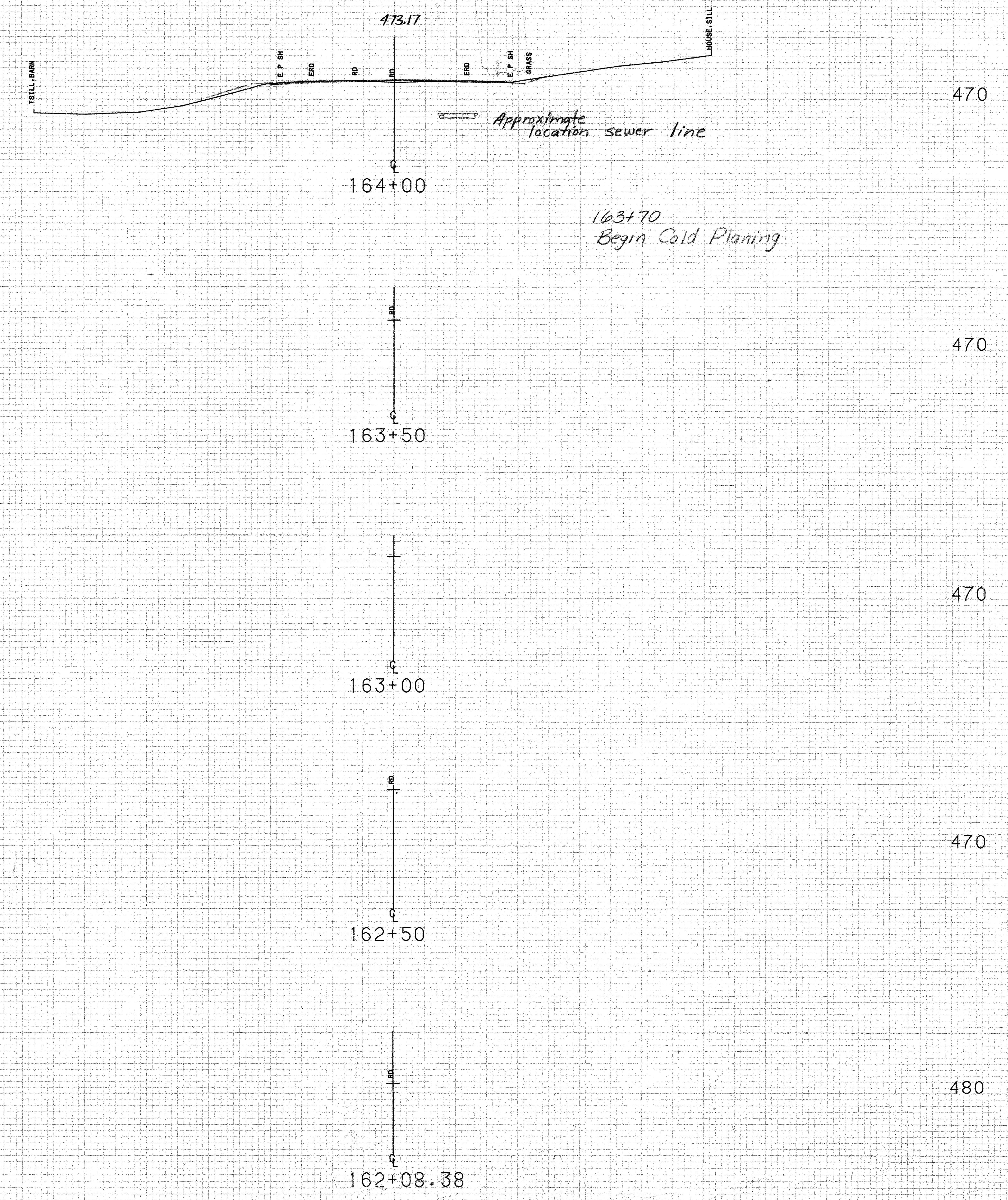
NOT TO SCALE

PLANTING SCHEDULE

ABBREVIATION	QUANTITY	ITEM NUMBER	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
			TREES			
W.S.	30	656.20	PICEA GLAUCA	WHITE SPRUCE	6-8′	B&B
			SHRUBS			
S.B.	45	656.35	AMELANCIER CANADENSIS	SHADBLOW	6-8′	B&B - MULTI-STEM
R.S.D.	96	656.35	CORNUS SERICEA	REDSTEM DOGWOOD	12-18"	B&B OR CONT.
G.S.D.	33	656.35	CORNUS AMOMUM	GRAYSTEM DOGWOOD	12-18"	B&B OR CONT.
H.S.	74	656.35	LONICERA XYLOSTEUM "CLAVEYI"	CLAVEYS'S DWARF HONEYSUCKLE	12-18"	B&B OR CONT.
S.S.	118	656.35	RHUS TYPHINA	STAGHORN SUMAC	12-18"	B&B OR CONT.
G.L.S.	15	656.35	RHUS AROMATICA 'GRO-LOW'	GRO-LOW SUMAC	12-18"	B&B OR CONT.
A.V.	51	656.35	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	12-18"	B&B OR CONT.
			VINES			
V	13	656.40	CELASTRUS SCANDENS	AMERICAN BITTERSWEET	2YR. FIELD	FIELD POT
□	13	656.40	PARTHENOSIS QUINQUEFOLIA	WOODBINE/VIRGINIA CREEPER	2YR. FIELD	FIELD POT
○	10	656.40	VITUS CULTIVAR	VALIENT GRAPEVINE	2YR. FIELD GROWN	2 GAL. POT
			OR	OR		
			VITUS AESTIVALIS (WILD GRAPE)	SUMMER GRAPE (NATIVE)	2YR. FIELD GROWN	2 GAL. POT
			PERENNIALS			
H.F.			HEMMEROCALLIS	COMMON DAYLILLY	ROOTS 3-5 EYE DIVISION	
	500	656.40	FULVA	NATIVE ORANGE LILY	ROOTS	FIELD GROWN
	200	656.40	FLAVA	NATIVE LEMON LILY	ROOTS	FIELD GROWN

LANDSCAPE DETAILS

SURVEYED BY ______ DATE ______
DRAWN BY K.RYAN DATE 2/00
SQUAD LEADER DELLA SANTA
DESIGN FILE NO. /SQDB/84E058/del32dtl.dgn
IPARM FILE del32dtl.1 DATE PLOTTED 25-APR-2000
PROJ. NAME MORETOWN - MIDDLESEX
PROJ. NO. RSEGC-RS 0167 (9)
SHEET 72 OF 243 SHEETS

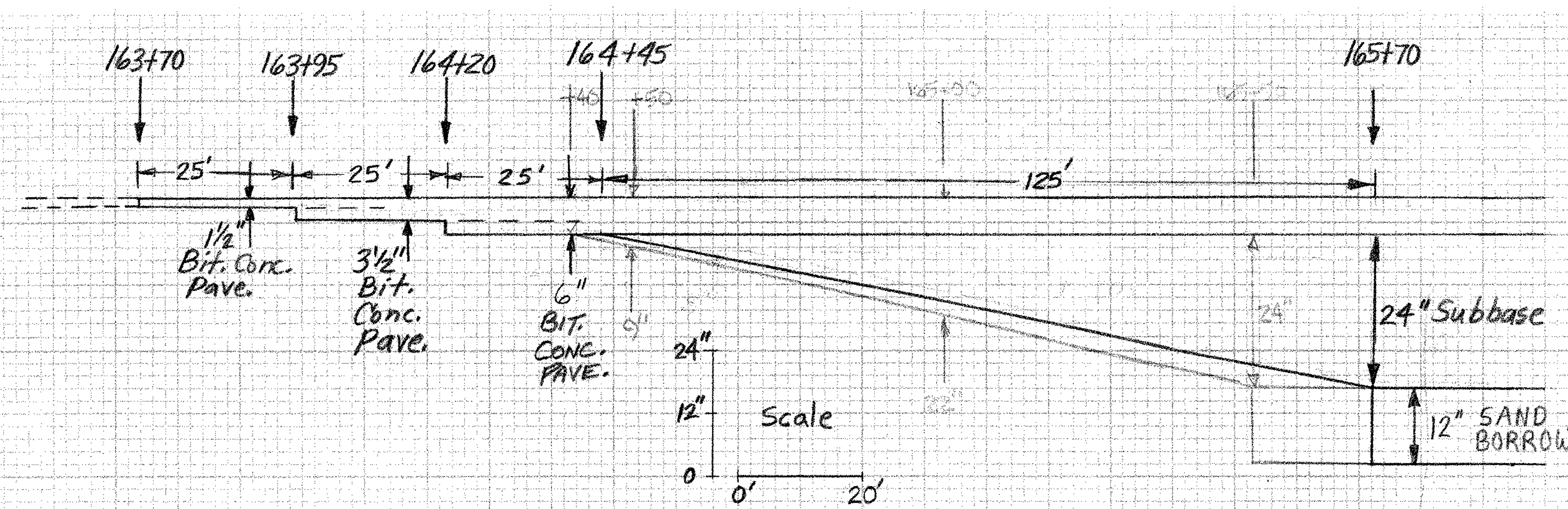


Approximate location sewer line

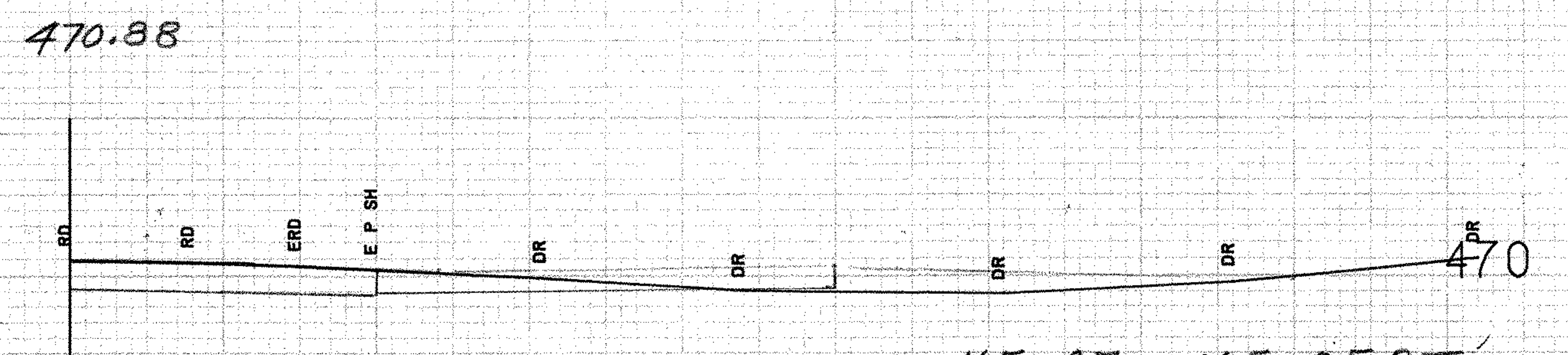
163+70
Begin Cold Planing

SCALE 10 FEET

FROM STA. 162+08.38 TO STA. 164+00
PROJECT NAME MORETOWN MAIN1
NO. RS EG RS0167(9) PLOTTED 01/23/86
SURVEYED BY MOREAU JAN.1986
SHEET 73 OF 243 SHEETS



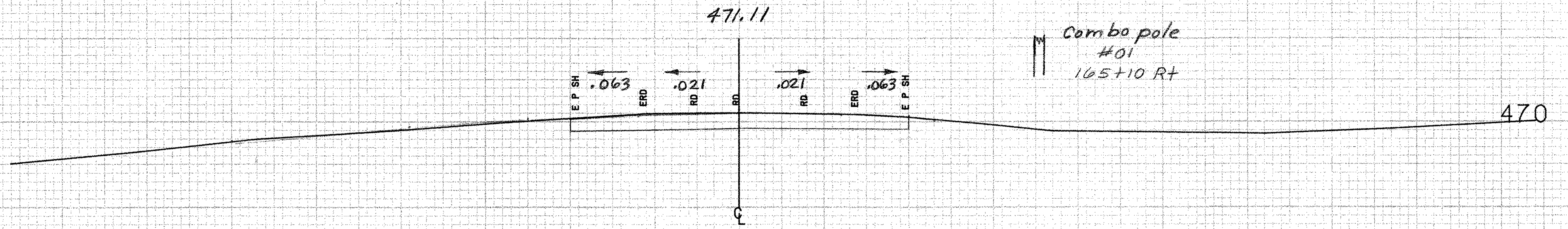
Materials Transition



165+20

'165+17 Rt.
Construct Drive
(PAVED APRON ONLY)

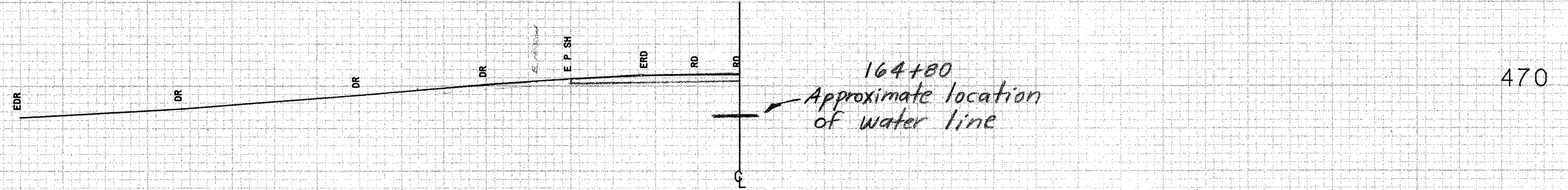
165+07 ~ 165+25 RT'
EXISTING 15" CGMP (DRIVE CULVERT)
RETAIN



Combo pole
#01
165+10 Rt

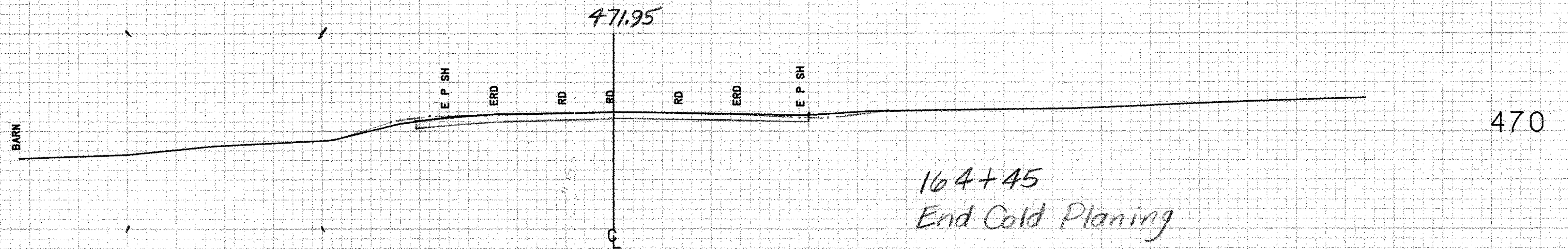
165+00

'164+88Lt
Construct Drive
(PAVED APRON ONLY)



164+80
Approximate location of water line

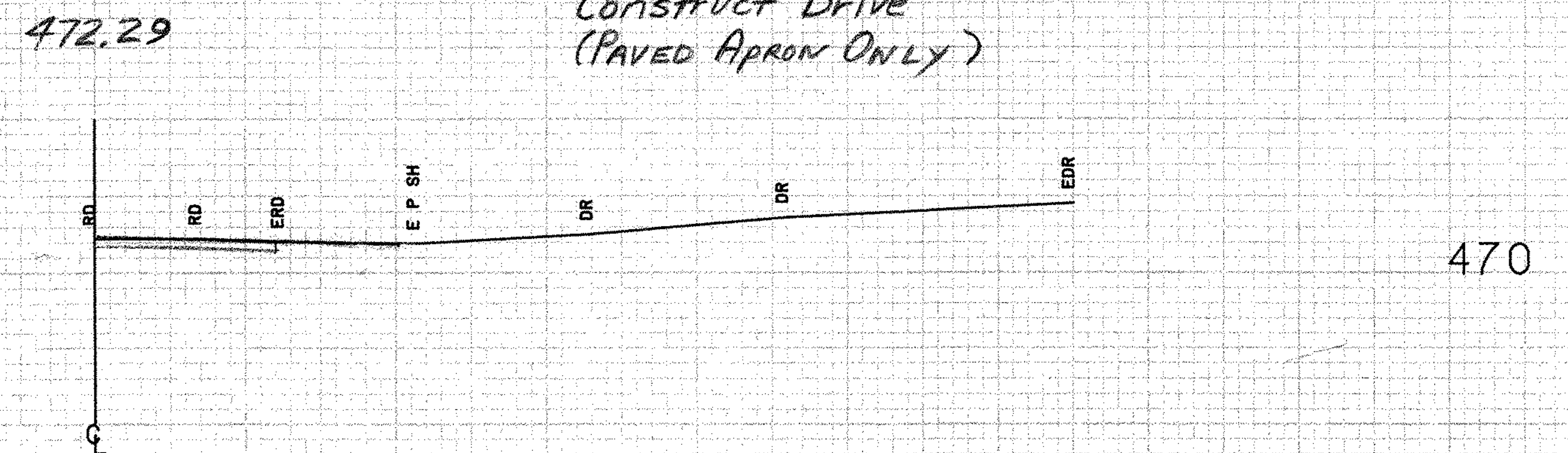
164+80



164+45
End Cold Planing

164+50

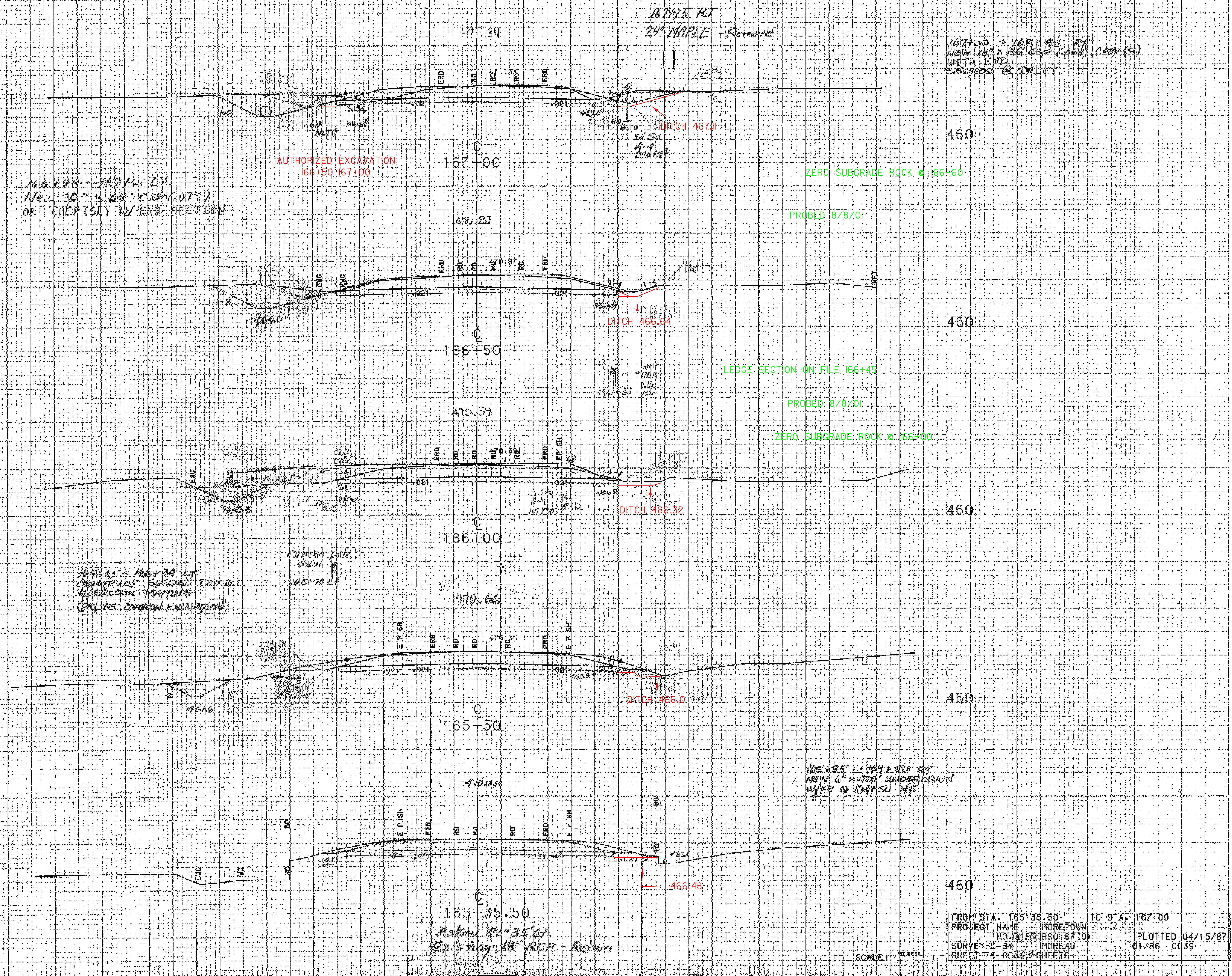
'164+37 Rt.
Construct Drive
(PAVED APRON ONLY)



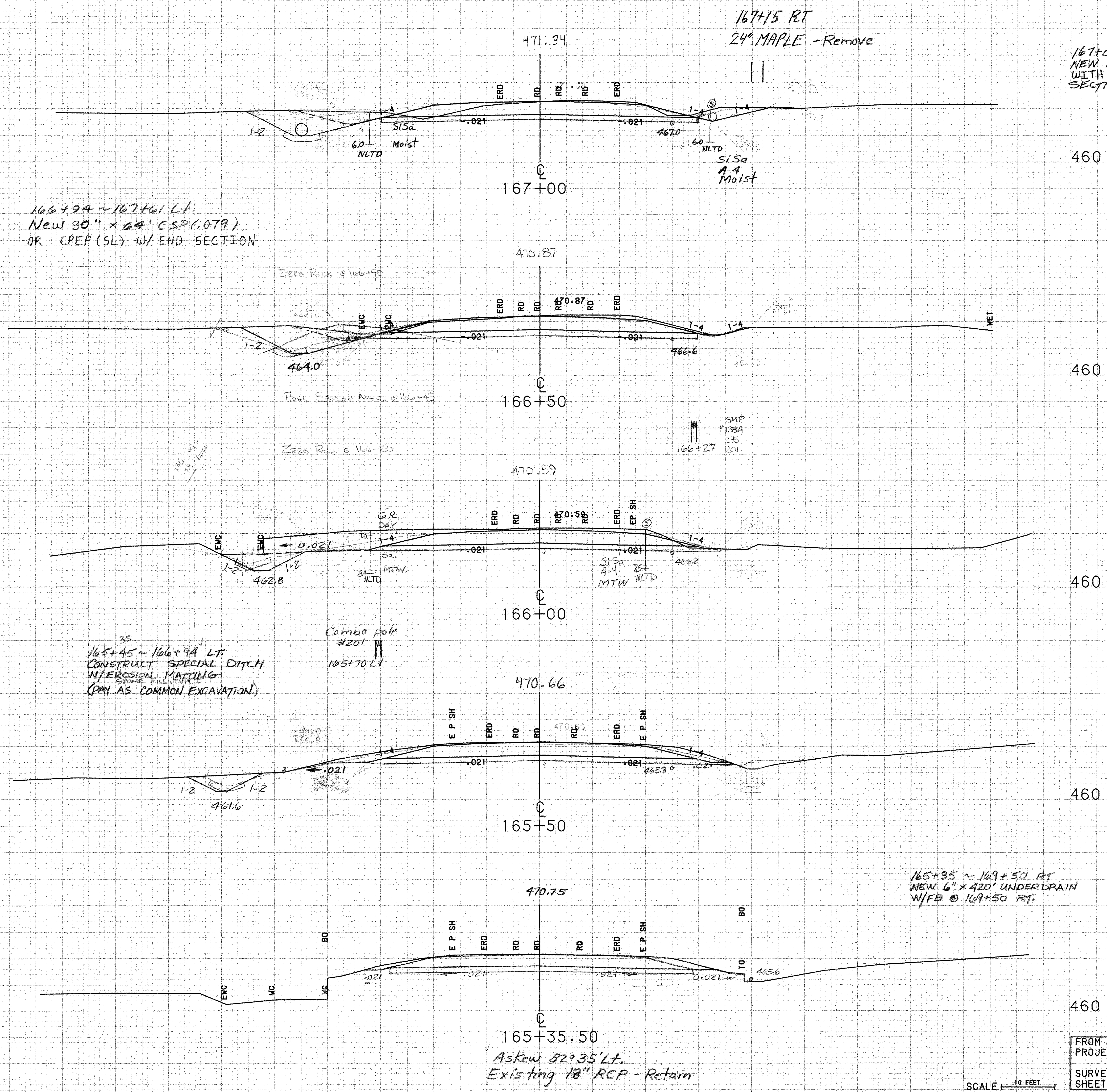
164+34

SCALE 10 FEET

FROM STA. 164+34 TO STA. 165+20
PROJECT NAME MORETOWN MAIN1
NO. RS EGC RS0167 (9) PLOTTED 01/23/86
SURVEYED BY MOREAU JAN. 1986
SHEET 74 OF 243 SHEETS



FROM STA. 165+35.50 TO STA. 167+00
PROJECT NAME MORETOWN
NO. RSO167(9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 75 OF 143 SHEETS



167+15 RT
24" MAPLE - Remove

167+00 ~ 168+45 RT.
NEW 18" x 146' CSP (.064), CPEP (SL)
WITH END
SECTION @ INLET

PIPE POLE W/ TEFRATH
EARTH SEE BK 2 Pg 17

166+94 ~ 167+61 Lt.
New 30" x 64' CSP (.079)
OR CPEP (SL) W/ END SECTION

Zero Rock @ 166+50

Rock Section Above @ 166+45

Zero Rock @ 166+20

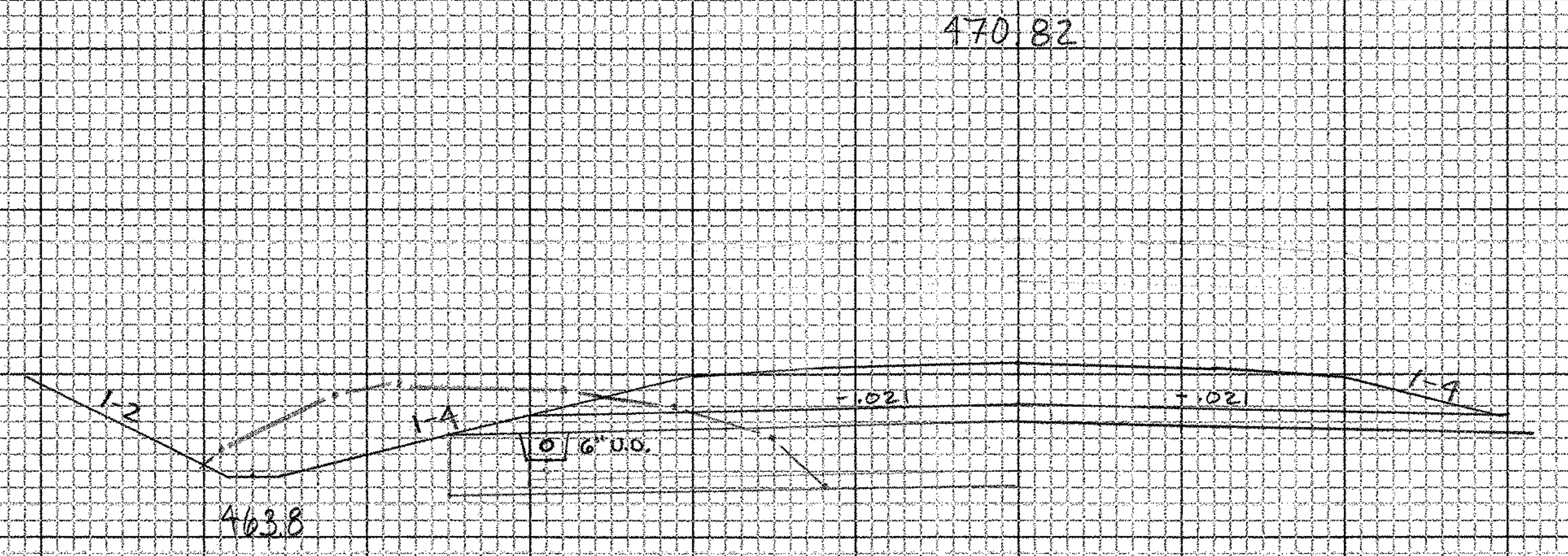
Combo pole
#201
165+70 Lt

35
165+45 ~ 166+94 LT.
CONSTRUCT SPECIAL DITCH
W/EROSION MATTING
STONE FILL, TYPE
(PAY AS COMMON EXCAVATION)

165+35 ~ 169+50 RT
NEW 6" x 420' UNDERDRAIN
W/FB @ 169+50 RT.

Askew 82°35' Lt.
Existing 18" RCP - Retain

FROM STA. 165+35.50 TO STA. 167+00
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 75 OF 243 SHEETS



Solid Rock 63.75'

166+43
VT 100B

205.20 Subgrade Drilling + Blasting (Location of Solid Rock Verified by STW 8-8-01)

Station	Dist.	Width	Area
166+00		0	
	43		51.9
166+43		23	
	17		21.7
166+60		0	
			76.6 sy

CROSS SECTION SHEET

PROJECT NAME:
PROJECT NUMBER: 166+43
FILE NAME: Ledge Section
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn
PLOT DATE: 05-JUN-2000 09
DRAWN BY:
CHECKED BY:
SHEET 75A OF

168+73 RT
6" APPLE - Remove

*3" Subbase of Crushed Gravel (Fine Graded) over 9" Dense Graded Crushed Stone

* 3" Subbase of Crushed Gravel (Fine Graded) over 9" Dense Graded Crushed Stone

168+27 Rt
Construct Drive (Gravel)

168+17 ~ 168+37 Rt.
Remove existing 15" CGMP (Drive Culvert) w/ Common Excavation

167+93 Lt.
Relocate Mail box - Single Support

167+61 ~ 172+50 LT.
CONSTRUCT SPECIAL DITCH WITH EROSION MATTING (PAY AS COMMON EXCAVATION)

167+35 Lt.
Construct Drive (Gravel)

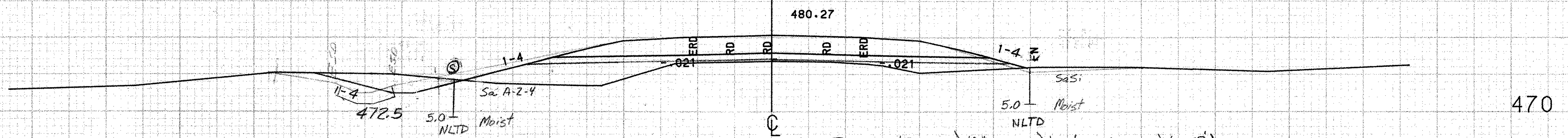
Combo pole
No#
167+43 Rt

Combo pole
No#
167+30 Rt

SCALE 10 FEET

FROM STA. 167+50 TO STA. 169+00
PROJECT NAME MORETOWN
NO. ~~RS EGG~~ RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 76 OF 243 SHEETS

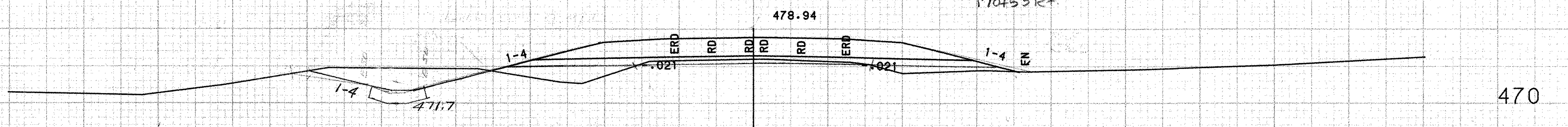
STA. 170+~~75~~50 CL ~ STA. 173+25 CL
REMOVAL OF PAVEMENT 0-2' BELOW SUBGRADE
(PAID AS COMMON EXCAVATION)



171+00

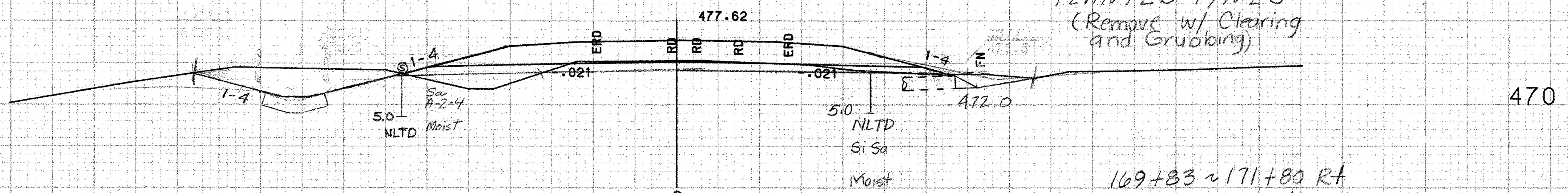
Pavement (Existing) (9" Average) (22' wide Average) (16.5')

Combo pole
241
204
170+53 Rt.



170+50

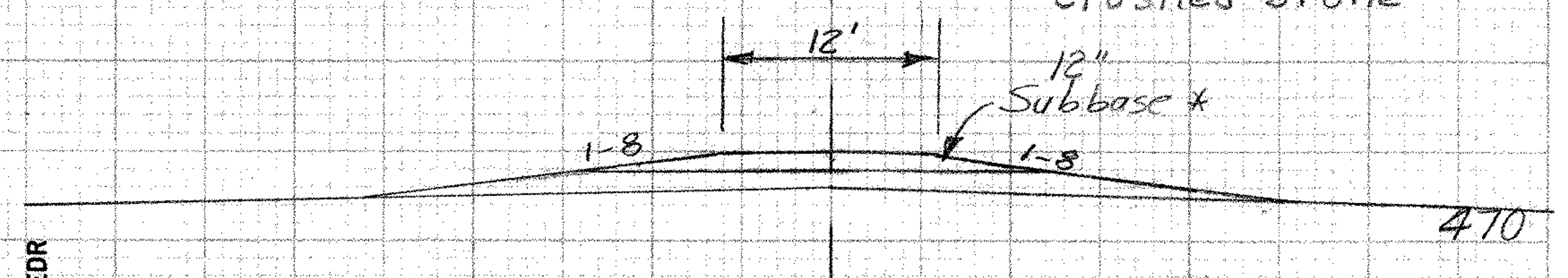
170+00 ~ 171+50
PLANTED PINES
(Remove w/ Clearing
and Grubbing)



170+00

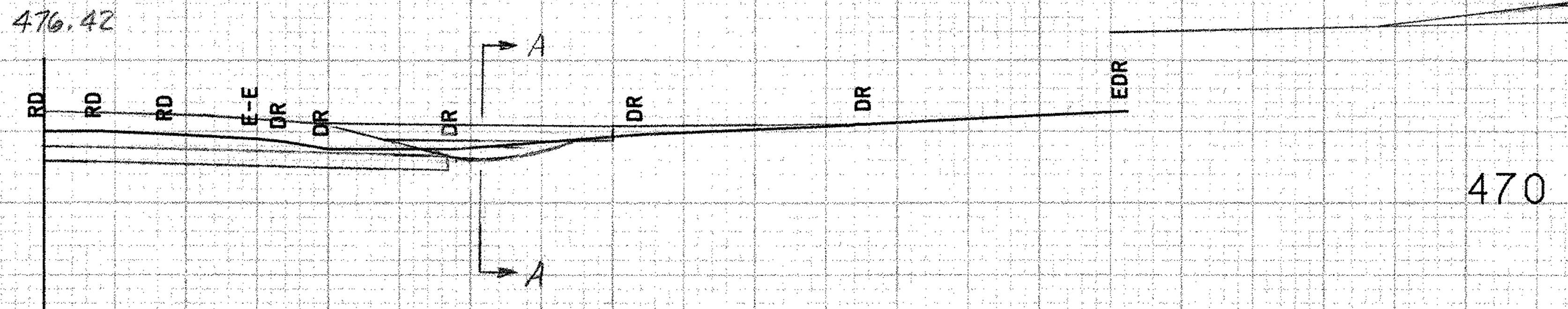
169+83 ~ 171+80 Rt
Removal of Existing Fence

* 3" Subbase of
Crushed Gravel
(Fine Graded) over
9" of Dense Graded
Crushed Stone



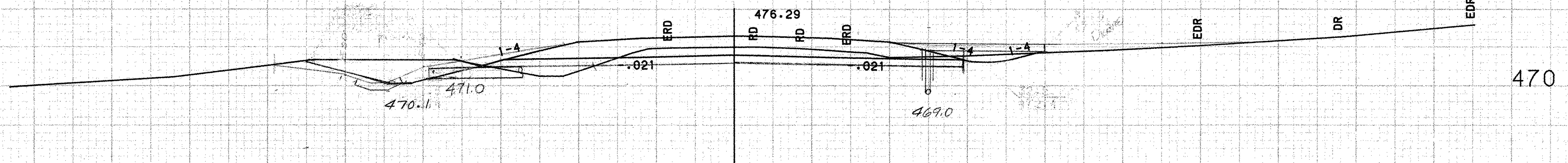
Section 'A-A'

169+50 LT. ~ 169+75 RT
NEW 18" x 76' PCCSP(.064), CPEP(SL),
OR CAAP(.060) W/ END SECTION
AND INLET DITCH



169+55
(ODD SECTION)

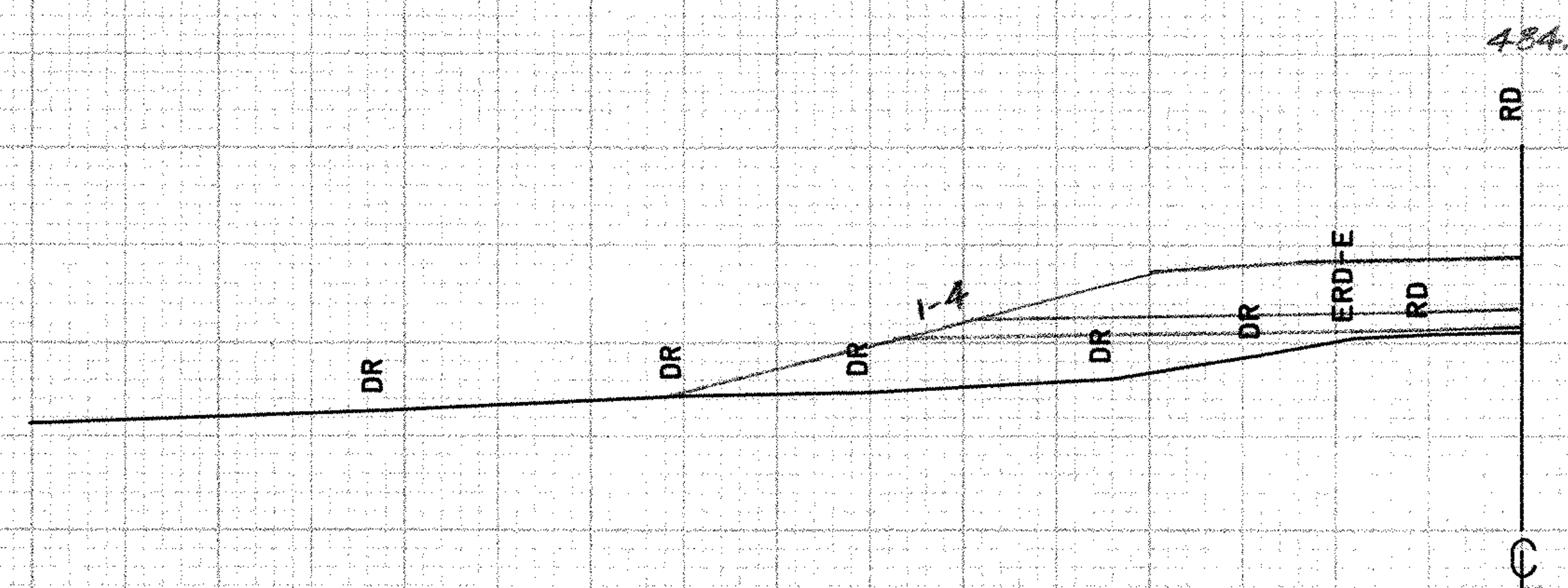
169+55 Rt.
Construct Drive (Gravel)
Gate for Woven Wire Fence (16' Wide)
(2-8' Gates w/ Opening in Middle)



169+50

SCALE 10 FEET

FROM STA. 169+50 TO STA. 171+00
PROJECT NAME MORETOWN
NO. RS E6c RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 77 OF 243 SHEETS

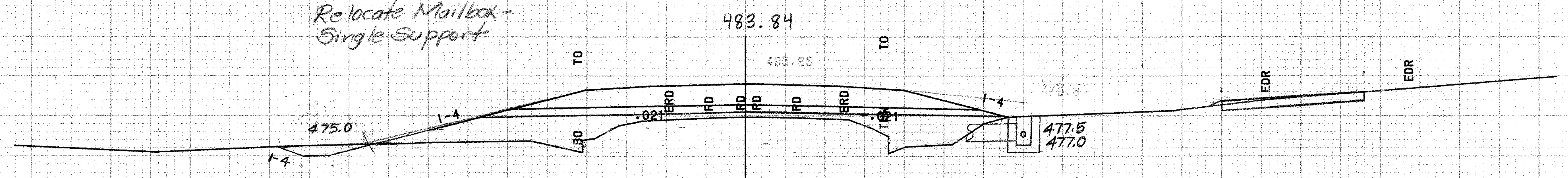


172+75
(ODD SECTION)

470

172+54 Lt
Relocate Mailbox-
Single Support

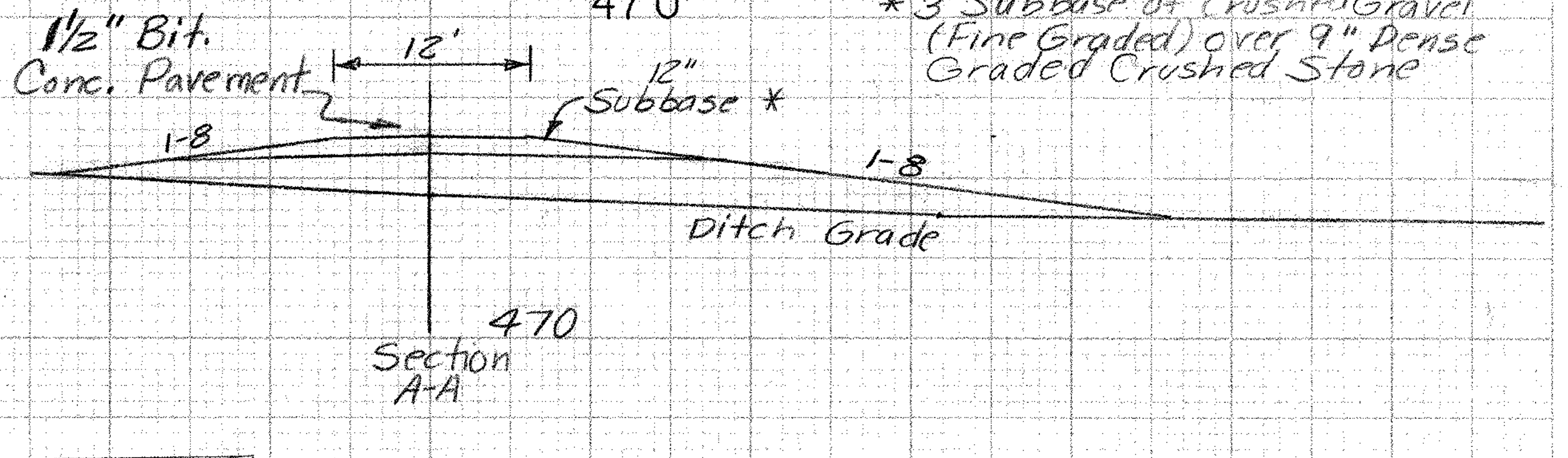
172+50 ~ 175+00 RT
NEW 6" x 250' UNDERDRAIN
W/ FB @ 175+00 RT



Existing Pavement (9") x (22' Wide) (16.5 sd)

172+50

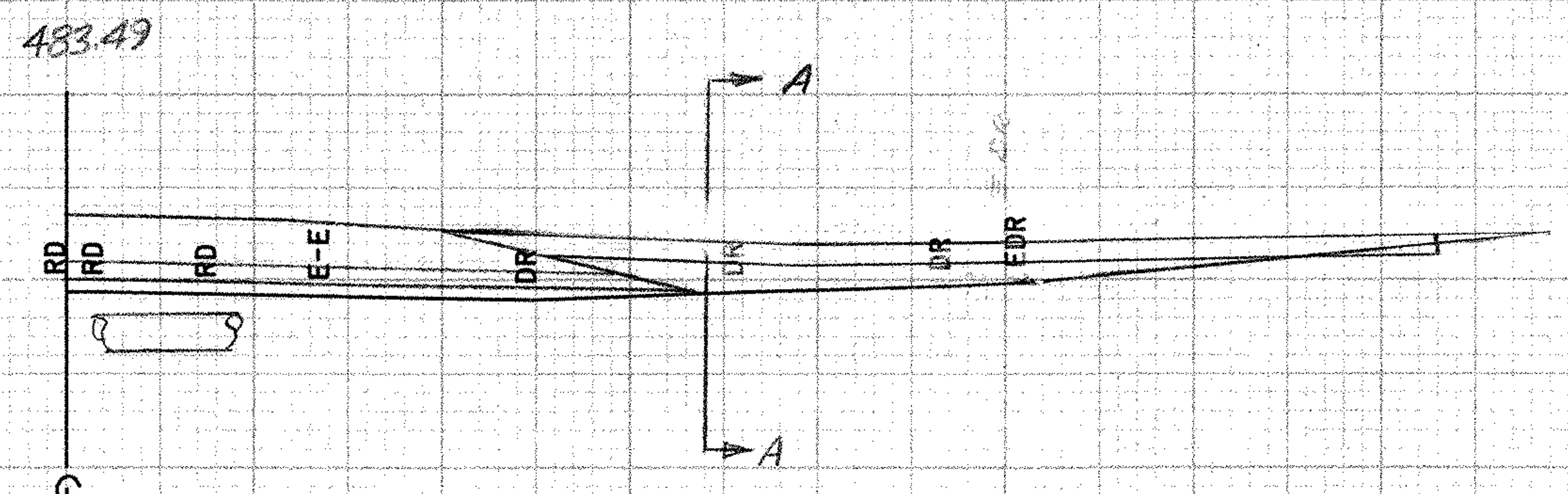
470



Section
A-A

* 3" Subbase of Crushed Gravel (Fine Graded) over 9" Dense Graded Crushed Stone

172+50 ℄
REMOVE EXISTING 18" ACCGMP



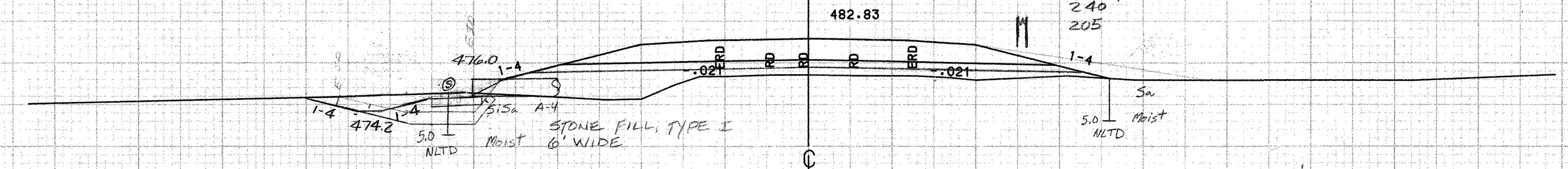
172+31
(ODD SECTION)

470

172+00 LT ~ 172+50 RT
NEW 24" x 92' PCCSP (.064), CPEP (SL), OR
CAAP (.060) W/ STONE FILL, TYPE I @
OUTLET

172+25 RT
CONSTRUCT DRIVE (Paved)

172+00 Rt
Combo pole
240
205

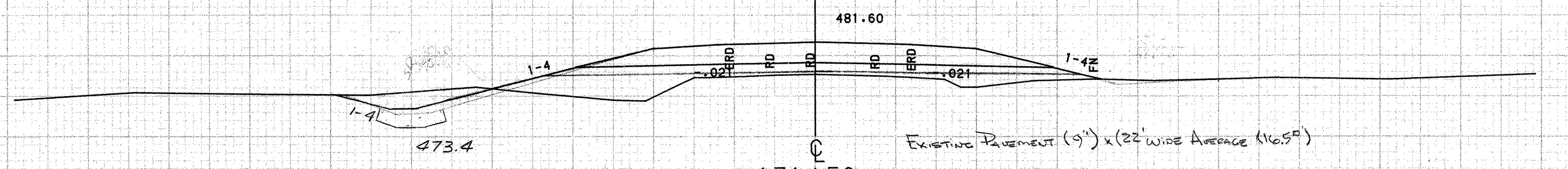


STONE FILL, TYPE I
6' WIDE

172+00

Existing Pavement (9") x (22' wide Average (16.5 sd)

470



171+50

Existing Pavement (9") x (22' wide Average (16.5 sd)

470

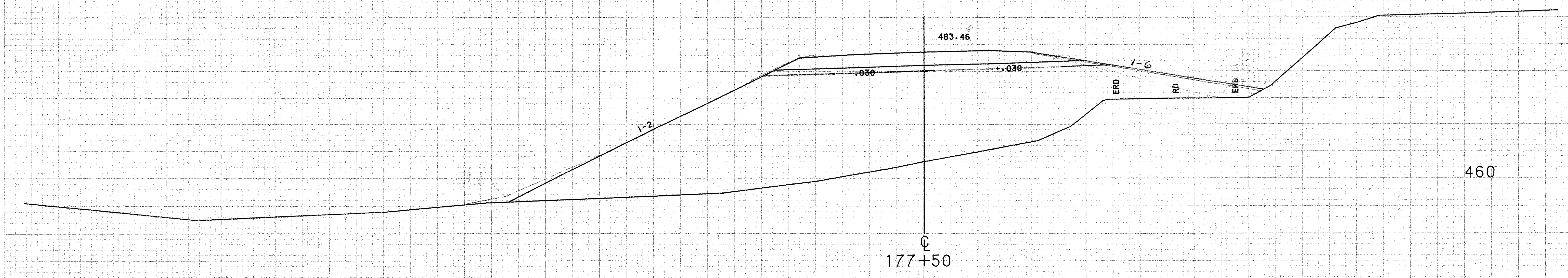
SCALE 10 FEET

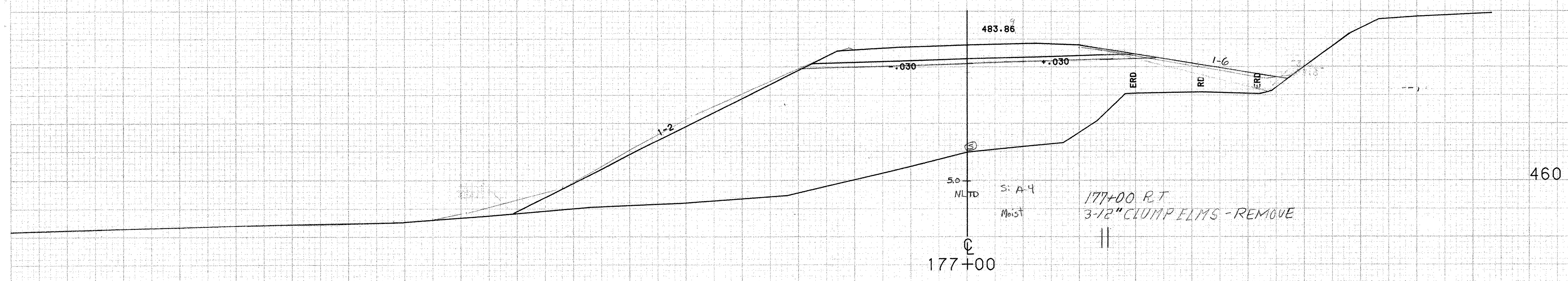
FROM STA. 171+50 TO STA. 172+75
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 78 OF 243 SHEETS

FROM STA. 173+00 TO STA. 174+58
PROJECT NAME MORETOWN
NO. ~~RS EGC~~ RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 79 OF 243 SHEETS

SCALE 10 FEET

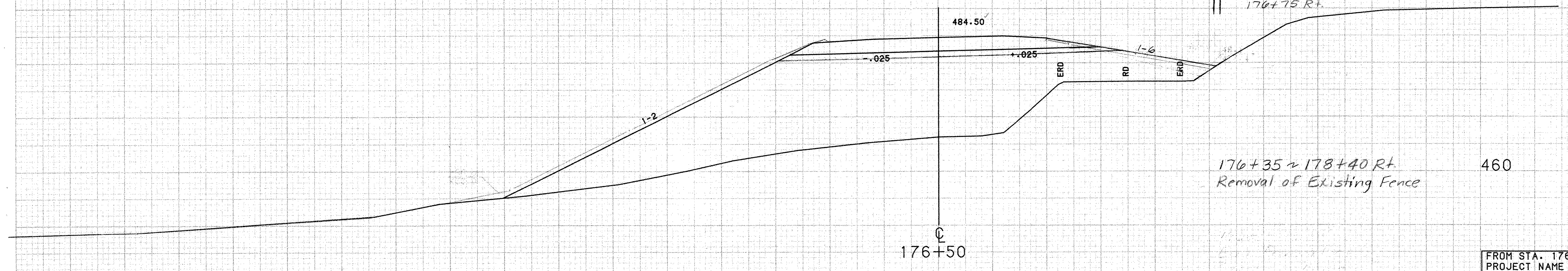
FROM STA. 174+93 TO STA. 176+00
PROJECT NAME MORETOWN
NO. RS EG RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 80 OF 243 SHEETS





177+00 RT
3-12" CLUMP ELMS - REMOVE

Combo pole
236
176+75 Rt.



176+35 ~ 178+40 Rt.
Removal of Existing Fence

SCALE 10 FEET

FROM STA. 176+50 TO STA. 177+50
PROJECT NAME MORETOWN
NO. RSE6C RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 81 OF 243 SHEETS

COMB NET & GMP
#234
212

179+38

178+50 RT.
END SPECIAL DITCH W/
STONE FILL, TYPE I

178+27 Rt
Combo pole
235
211

178+40 Rt ~ 178+40 Lt.
Removal of Existing Fence

178+14 Lt.
New 12" x 40' CSP (.064) or
CAAP (.060) w/ PRCCDI w/
1-10° and 1-15° Elbow

178+11.5 Rt
Remove existing 15" CMP

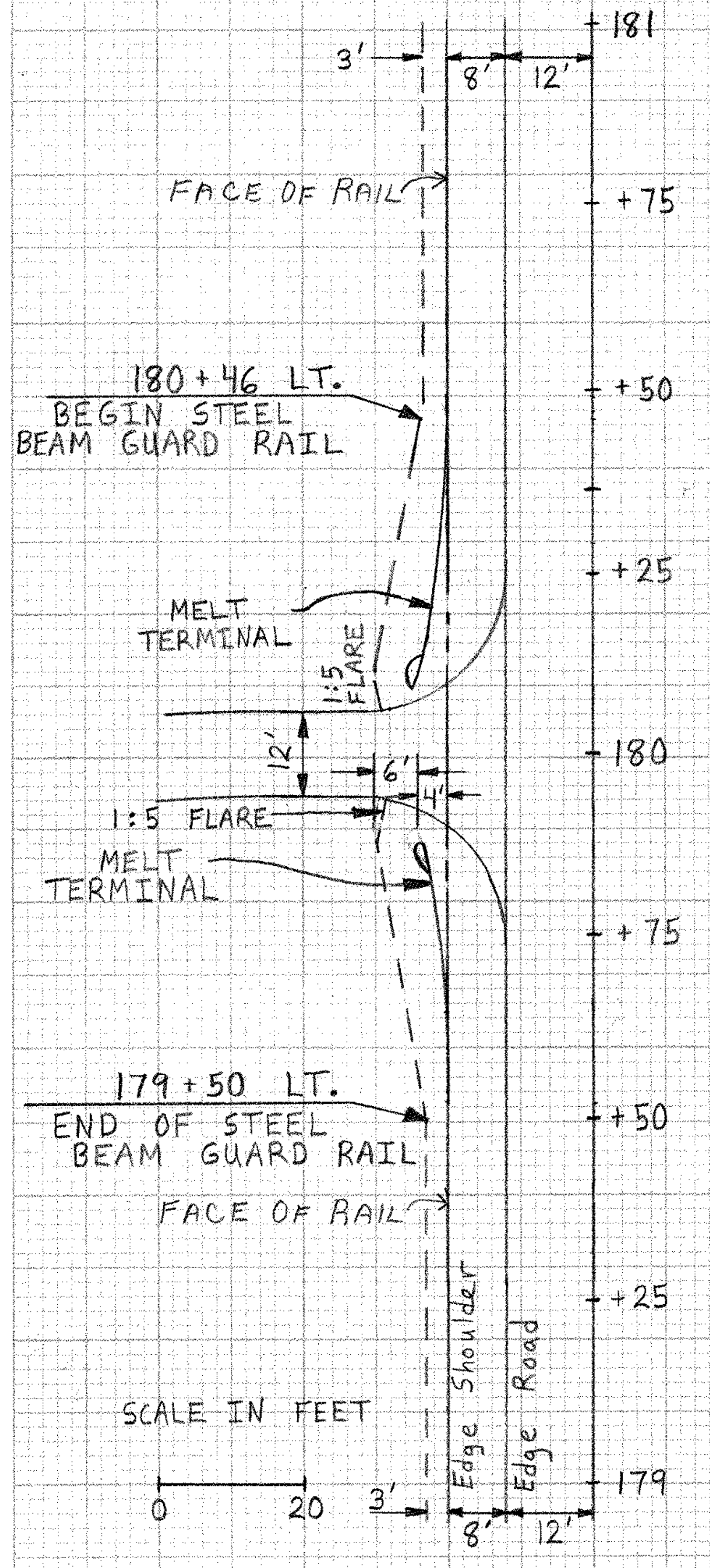
178 + 11.5 RT.
END SPECIAL DITCH W/
STONE FILL, TYPE I

178 + 11.5 RT.
BEGIN SPECIAL DITCH W/
STONE FILL, TYPE I

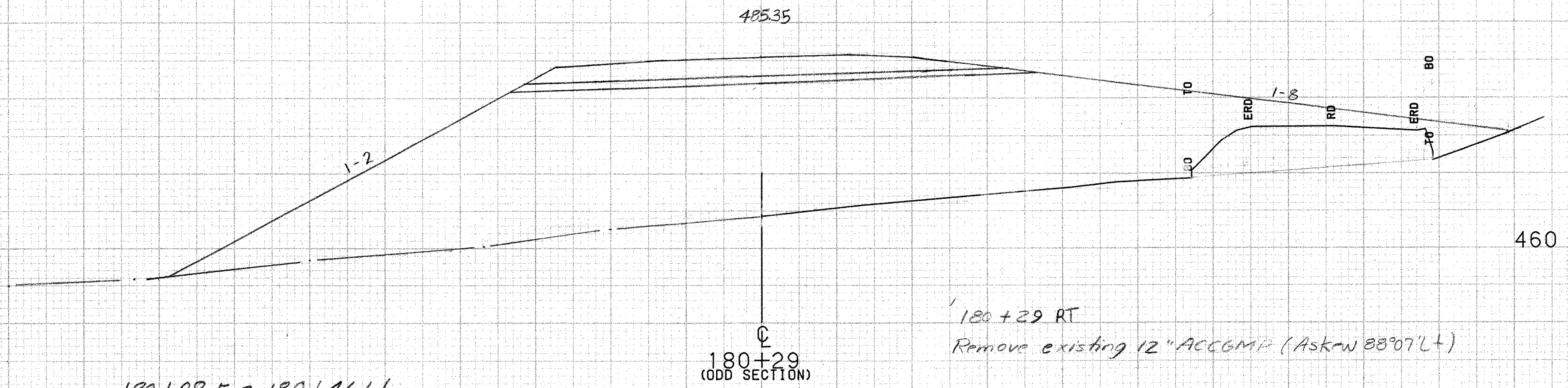
178+12 ℄
New 24" X 136' PCCSP (.064), CPEP (SL), OR
CAAP (.060) w/ End Section @ INLET
and TYPE II STONE PAD @ Outlet

SCALE 10 FEET

FROM STA. 178+00 TO STA. 179+00
PROJECT NAME MORETOWN
NO ~~RS EGC~~ RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 82 OF 243 SHEETS

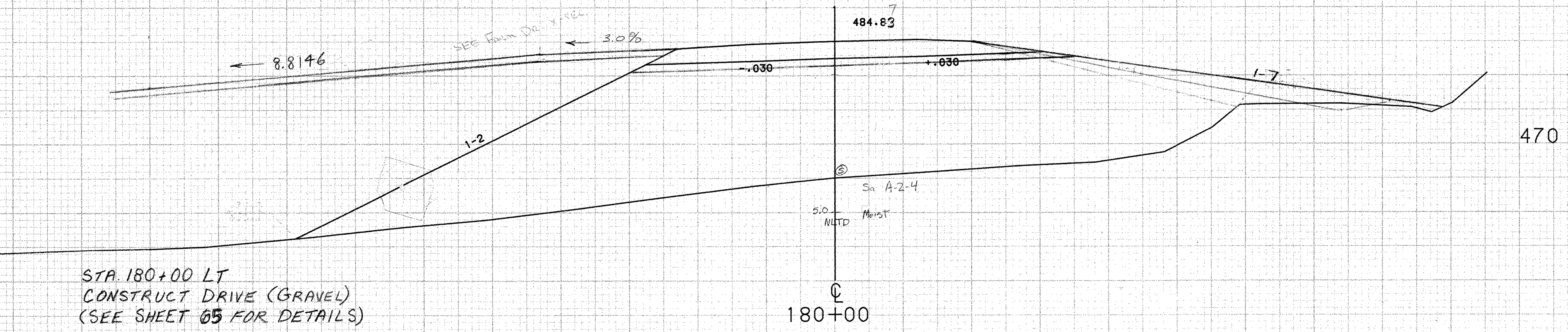


GUARD RAIL DETAIL

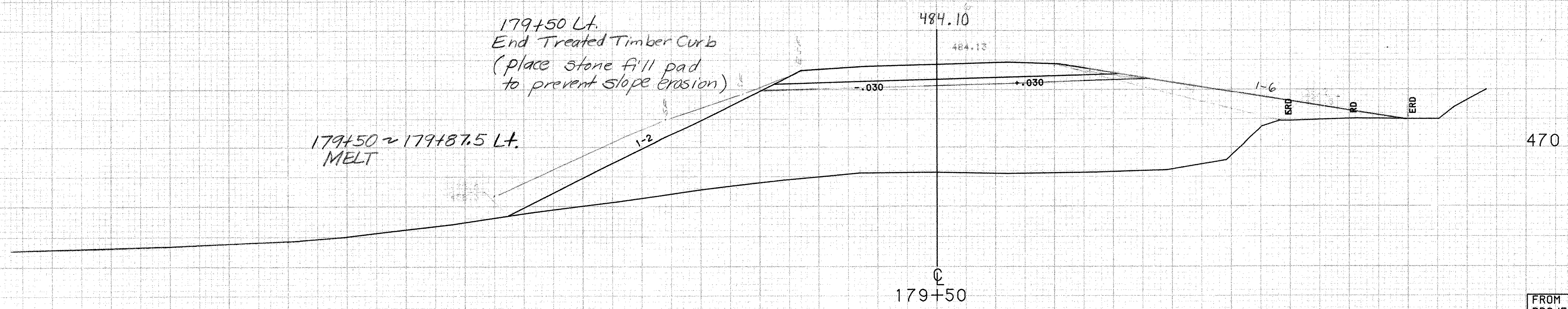


180+29 RT
Remove existing 12" ACCGMP (Askew 88°07' Lt)

180+08.5 ~ 180+46 Lt
MELT



STA. 180+00 LT
CONSTRUCT DRIVE (GRAVEL)
(SEE SHEET 65 FOR DETAILS)

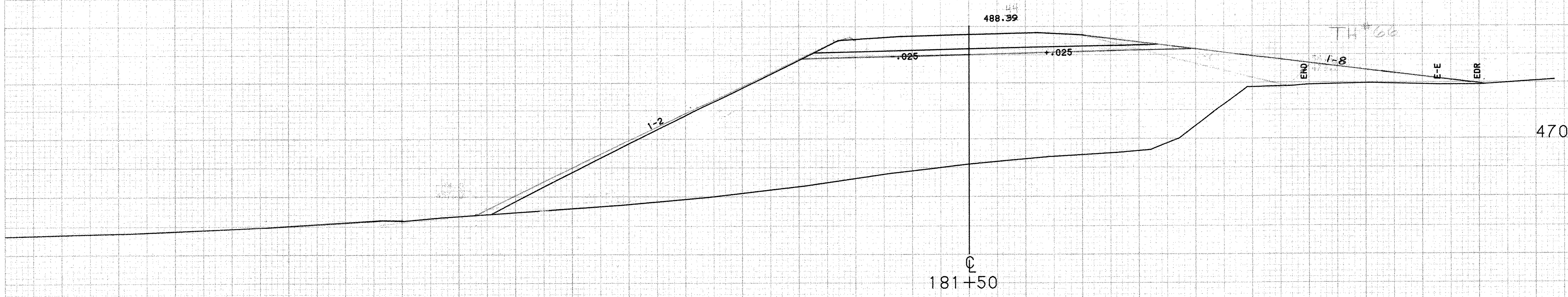


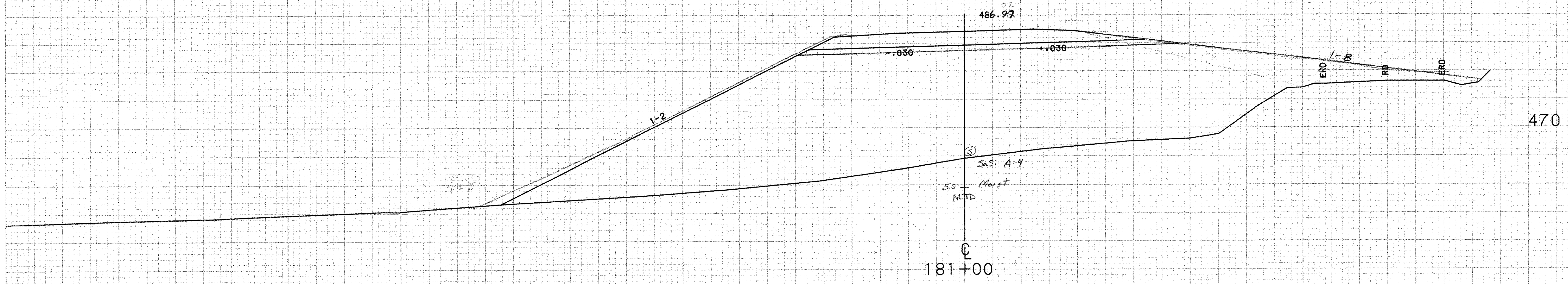
179+50 Lt.
End Treated Timber Curb
(place stone fill pad
to prevent slope erosion)

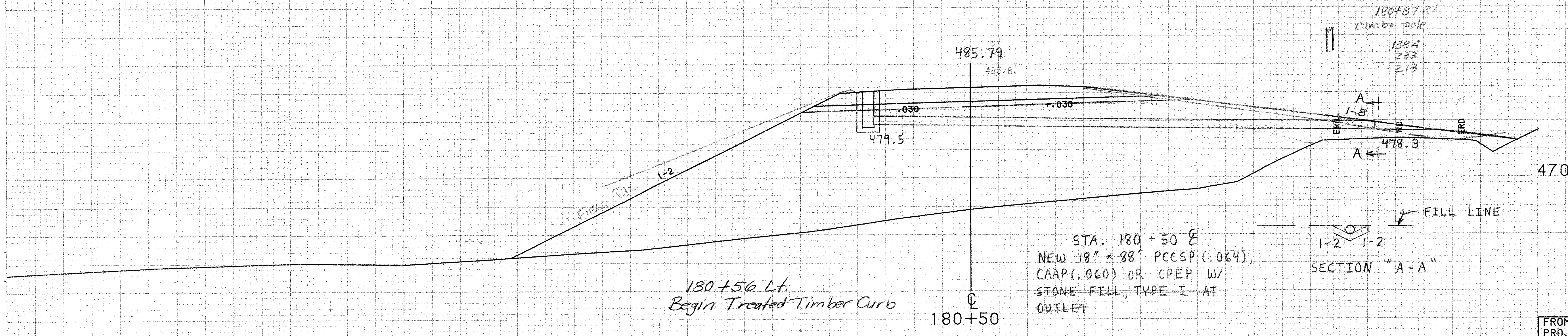
179+50 ~ 179+87.5 Lt.
MELT

SCALE 10 FEET

FROM STA. 179+50 TO STA. 180+29
PROJECT NAME MORETOWN
NO ~~RS EGC~~ RS0167(9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 83 OF 243 SHEETS







180+56 Lt.
Begin Treated Timber Curb

STA. 180 + 50 ℄
NEW 18" × 88' PCCSP (.064),
CAAP (.060) OR CPEP W/
~~STONE FILL, TYPE I AT~~
~~OUTLET~~

SCALE 10 FEET

FROM STA. 180+50 TO STA. 181+50
PROJECT NAME MORETOWN
NO. RS E6C RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 84 OF 243 SHEETS

182+65 RT
8" BIRCH - REMOVE

182+00 LT ~ 182+53 RT.
NEW 18" x 84' pccsp (.064), CAAP (.060) OR
CPEP(SL) W/END SECTION AND INLET DITCH

182+00 RT
3" POP. - REMOVE

181+75 Rt.
Begin Excavation of
Surfaces and Pavements

PT 181+71.10
1°30' Lt
Bank 0.030 Ft/Ft.

181+81 Rt
Combo pole
232
214

181+75 RT
END SCARIFYING
PAVEMENT

Banking and Shoulder Transition

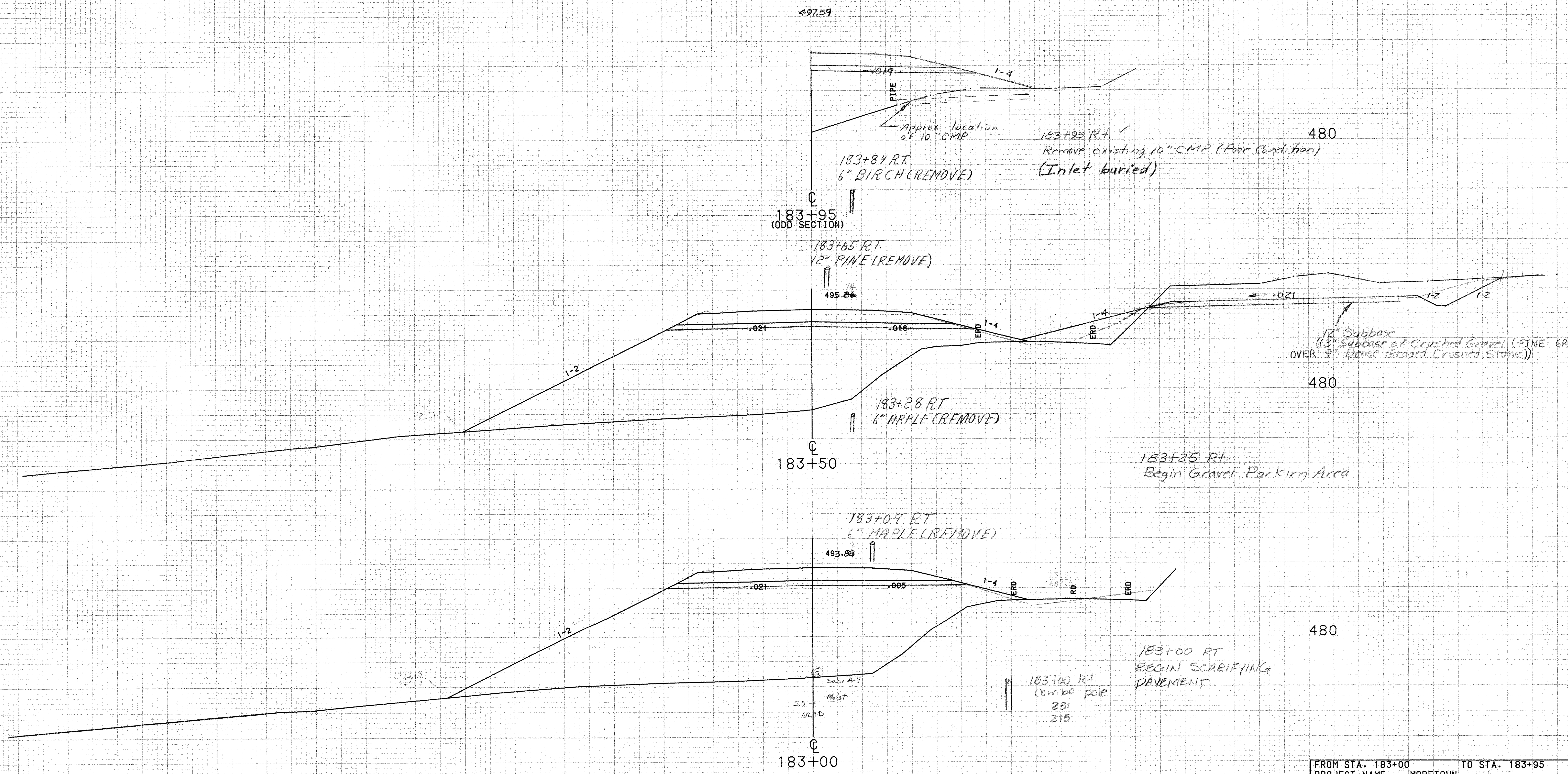
182+00 Lt.
New 18" X 56' CSP (.064) or CAAP (.060)
W/ 1-25° and 1-15° Elbow W/TYPE II
STONE PAD @ OUTLET

See TH 66 Cross Sections

181+60 Rt.
Relocate Mailbox-
Multiple Support (3 Boxes)

SCALE 10 FEET

FROM STA. 181+63 TO STA. 182+50
PROJECT NAME MORETOWN
NO. ~~RS EGC~~ RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 85 OF 243 SHEETS



Approx. location of 10" CMP

183+95 Rt. ✓
Remove existing 10" CMP (Poor Condition)
(Inlet buried)

183+84 RT.
6" BIRCH (REMOVE)

183+65 RT.
12" PINE (REMOVE)

12" Subbase
((3" Subbase of Crushed Gravel (FINE GRADED)
OVER 9" Dense Graded Crushed Stone))

183+28 RT
6" APPLE (REMOVE)

183+25 Rt.
Begin Gravel Parking Area

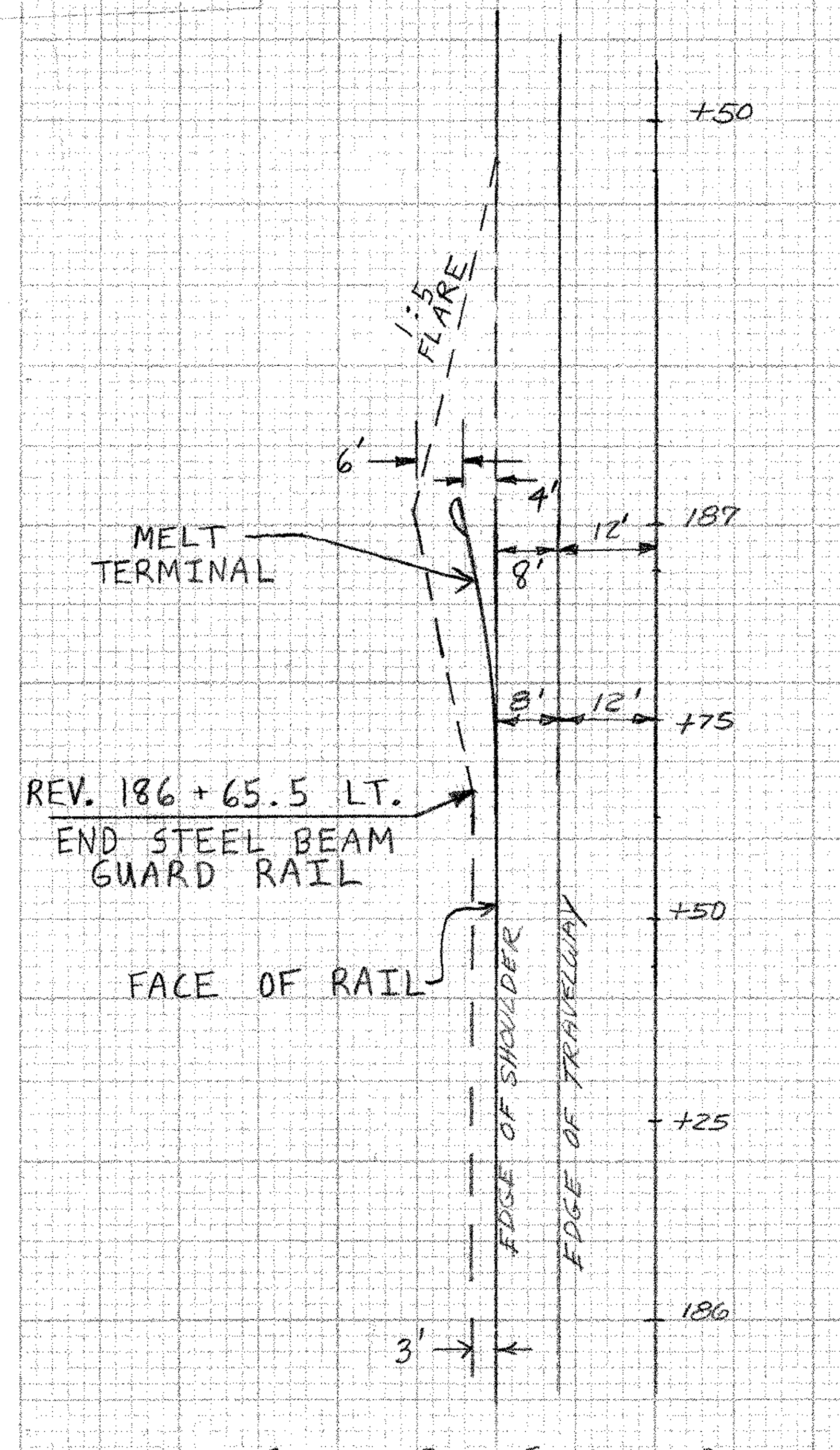
183+07 RT
6" MAPLE (REMOVE)

183+00 RT
BEGIN SCARIFYING
PAVEMENT

183+00 Rt
Combo pole
231
215

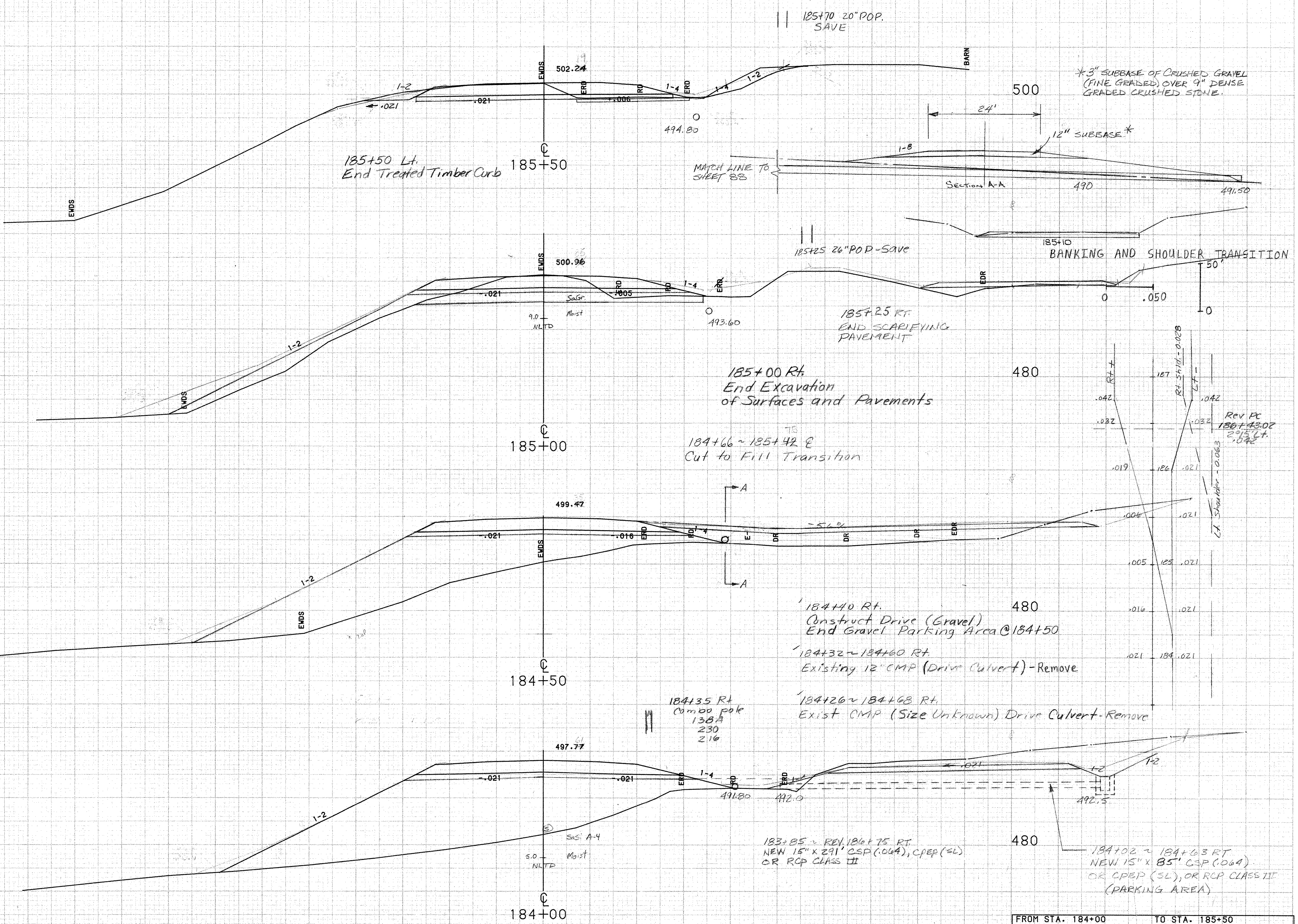
SCALE 10 FEET

FROM STA. 183+00 TO STA. 183+95
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 86 OF 243 SHEETS



GUARD RAIL TERMINAL DETAIL

20'
SCALE



*3" SUBBASE OF CRUSHED GRAVEL (FINE GRADED) OVER 9" DENSE GRADED CRUSHED STONE.

185+50 Lt.
End Treated Timber Curb

185+25 RT.
END SCARIFYING PAVEMENT

185+00 Rt.
End Excavation
of Surfaces and Pavements

184+66 ~ 185+42 ℄
Cut to Fill Transition

184+40 Rt.
Construct Drive (Gravel)
End Gravel Parking Area @ 184+50

184+32 ~ 184+60 Rt.
Existing 12" CMP (Drive Culvert) - Remove

184+35 Rt
Combo pole
138A
230
216

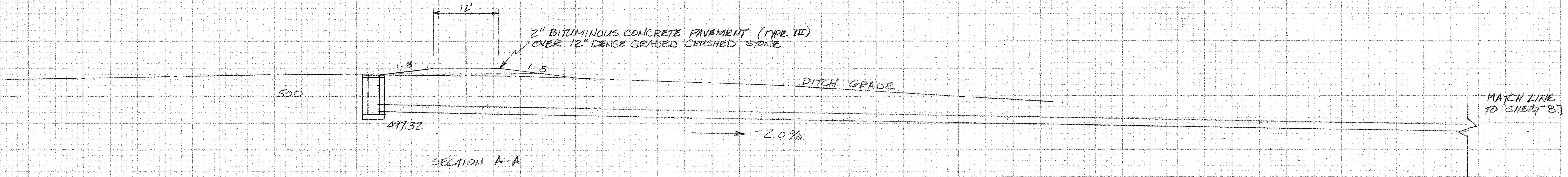
184+26 ~ 184+68 Rt.
Exist CMP (Size Unknown) Drive Culvert - Remove

183+85 ~ REV. 186+75 RT.
NEW 15" x 291' CSP (.064), CPEP (SL)
OR RCP CLASS III

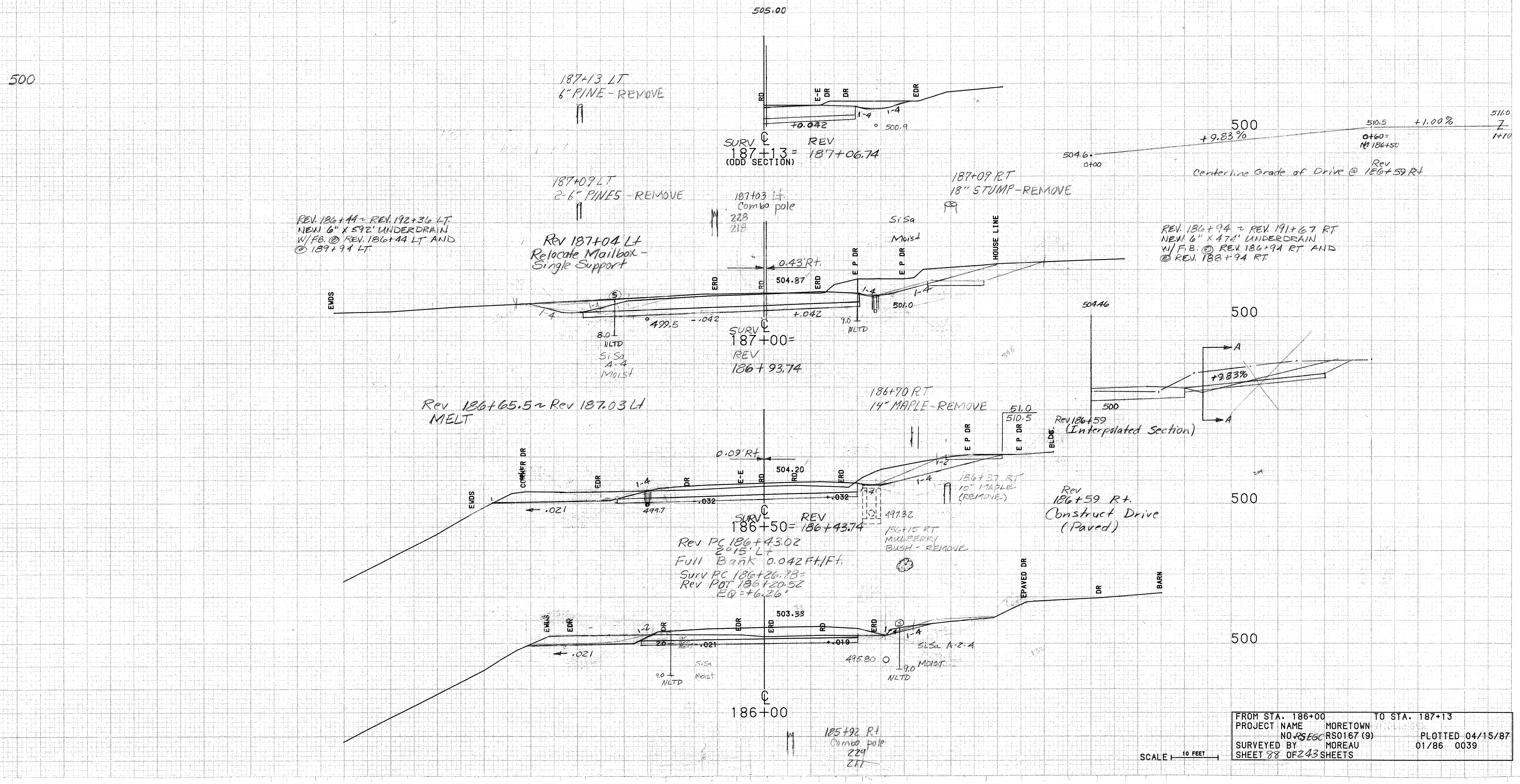
184+02 ~ 184+63 RT
NEW 15" x 85' CSP (.064)
OR CPEP (SL), OR RCP CLASS III
(PARKING AREA)

SCALE 10 FEET

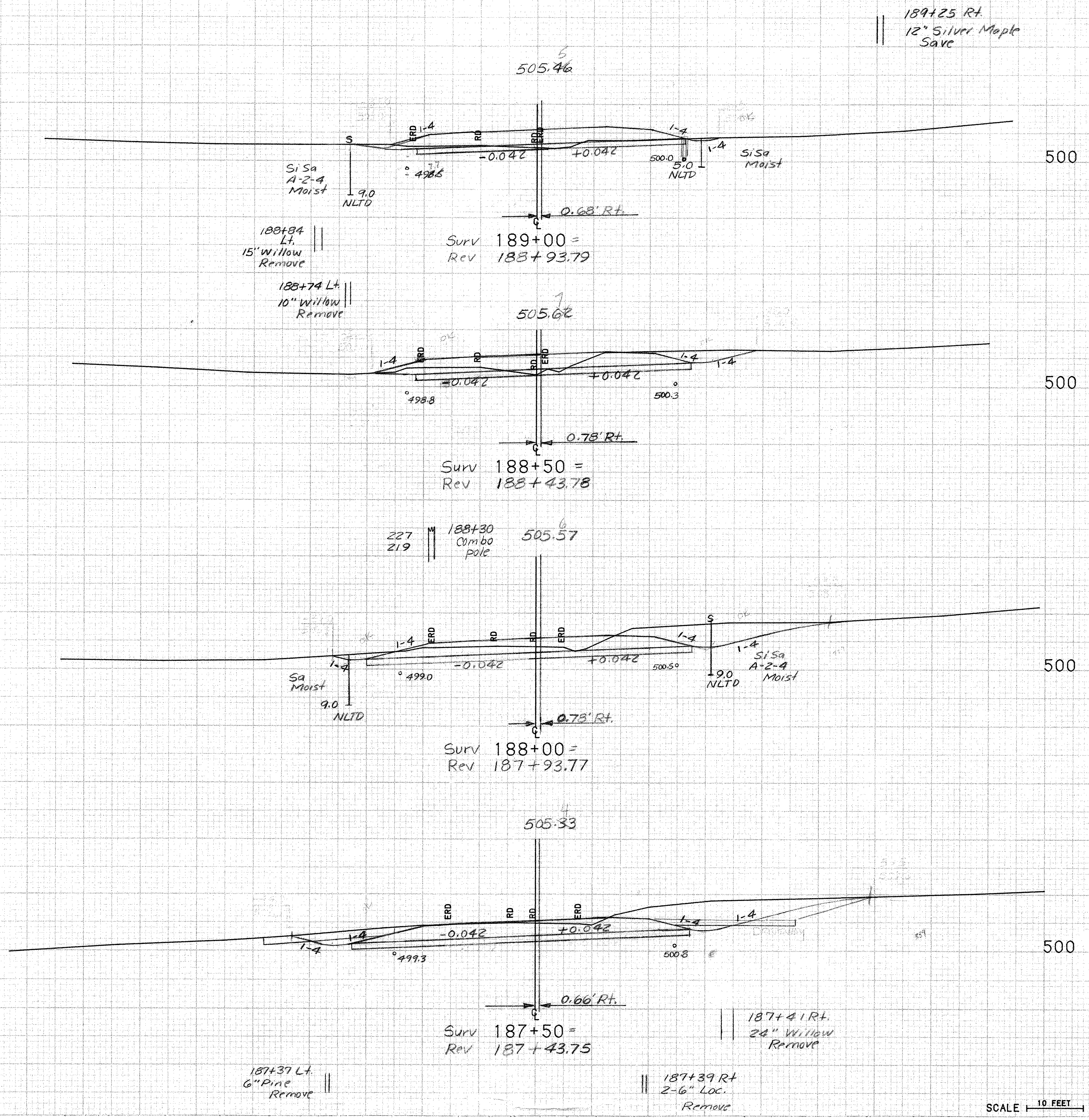
FROM STA. 184+00 TO STA. 185+50
PROJECT NAME MORETOWN
NO ~~RS EGC~~ RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 87 OF 243 SHEETS



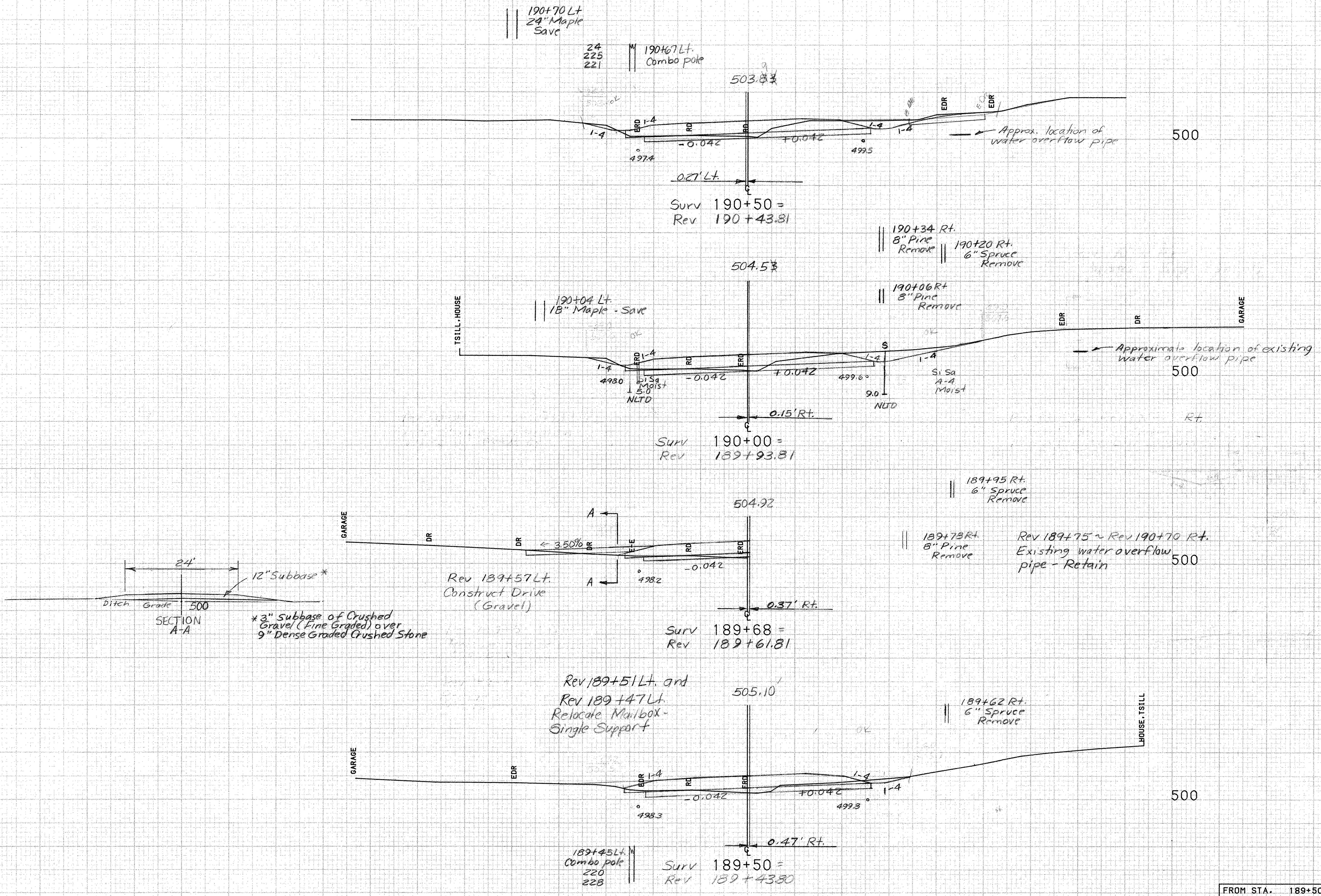
SECTION A-A



FROM STA. 186+00 TO STA. 187+13
PROJECT NAME MORETOWN
NO. RSEGC RS0167 (9) PLOTTED 04/15/87
SURVEYED BY MOREAU 01/86 0039
SHEET 88 OF 243 SHEETS

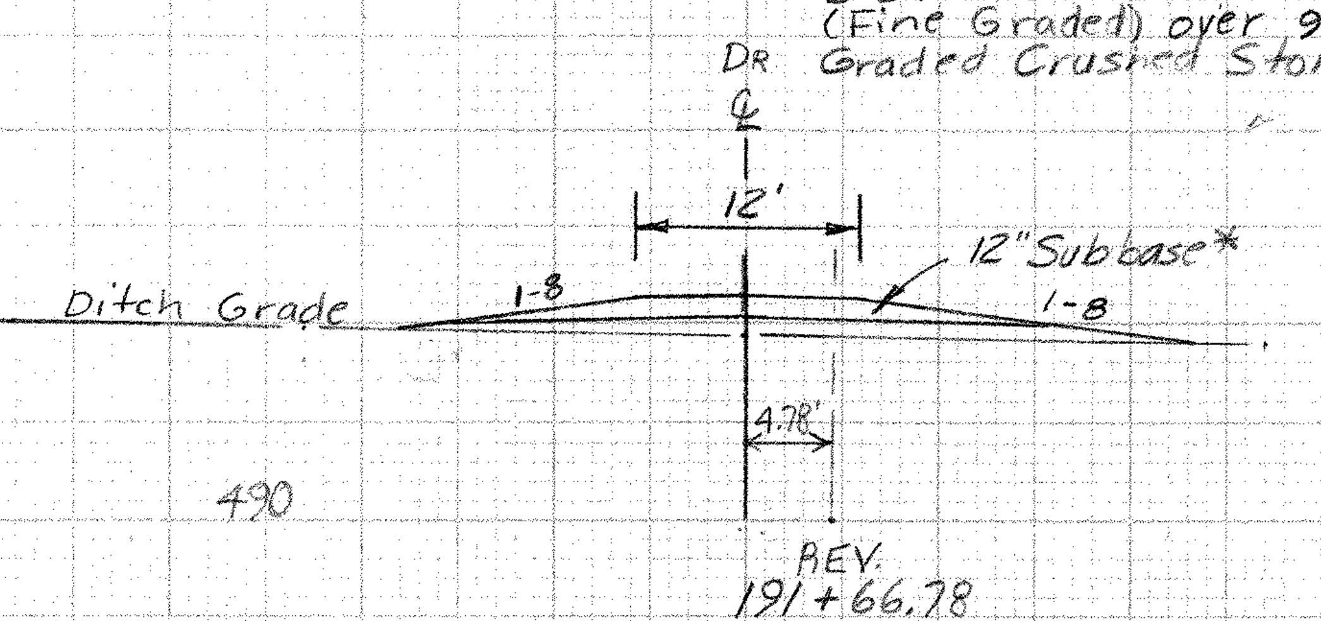


FROM STA. 187+50 TO STA. 189+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 89 OF 243 SHEETS

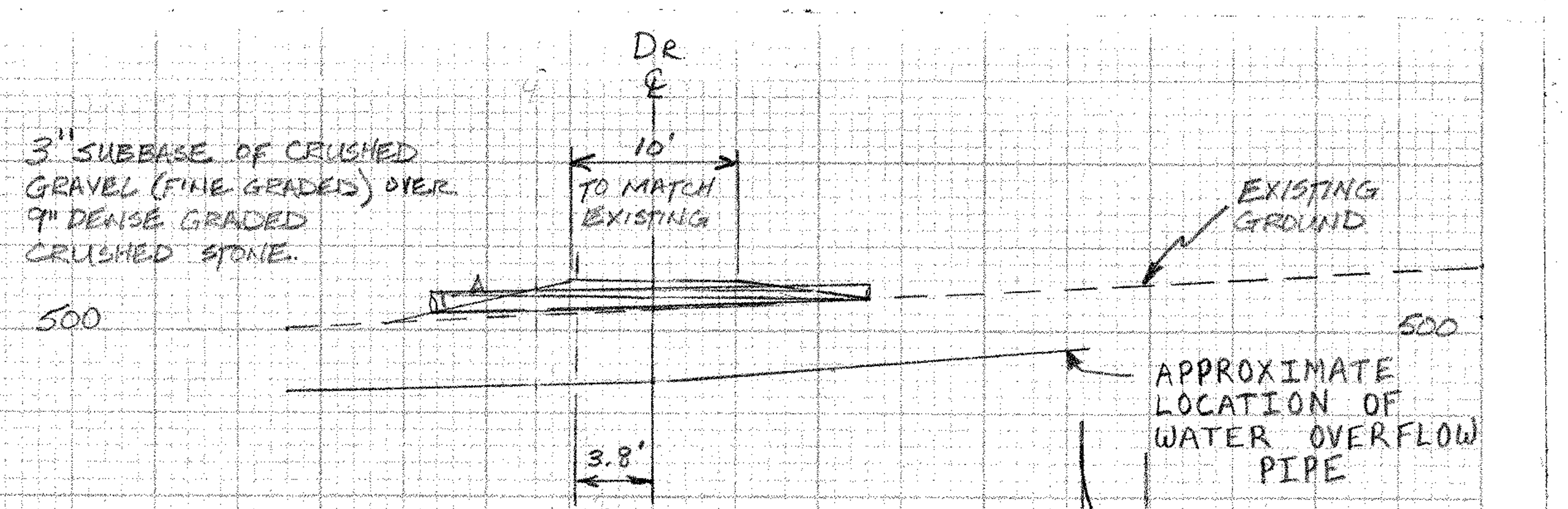


SCALE 10 FEET

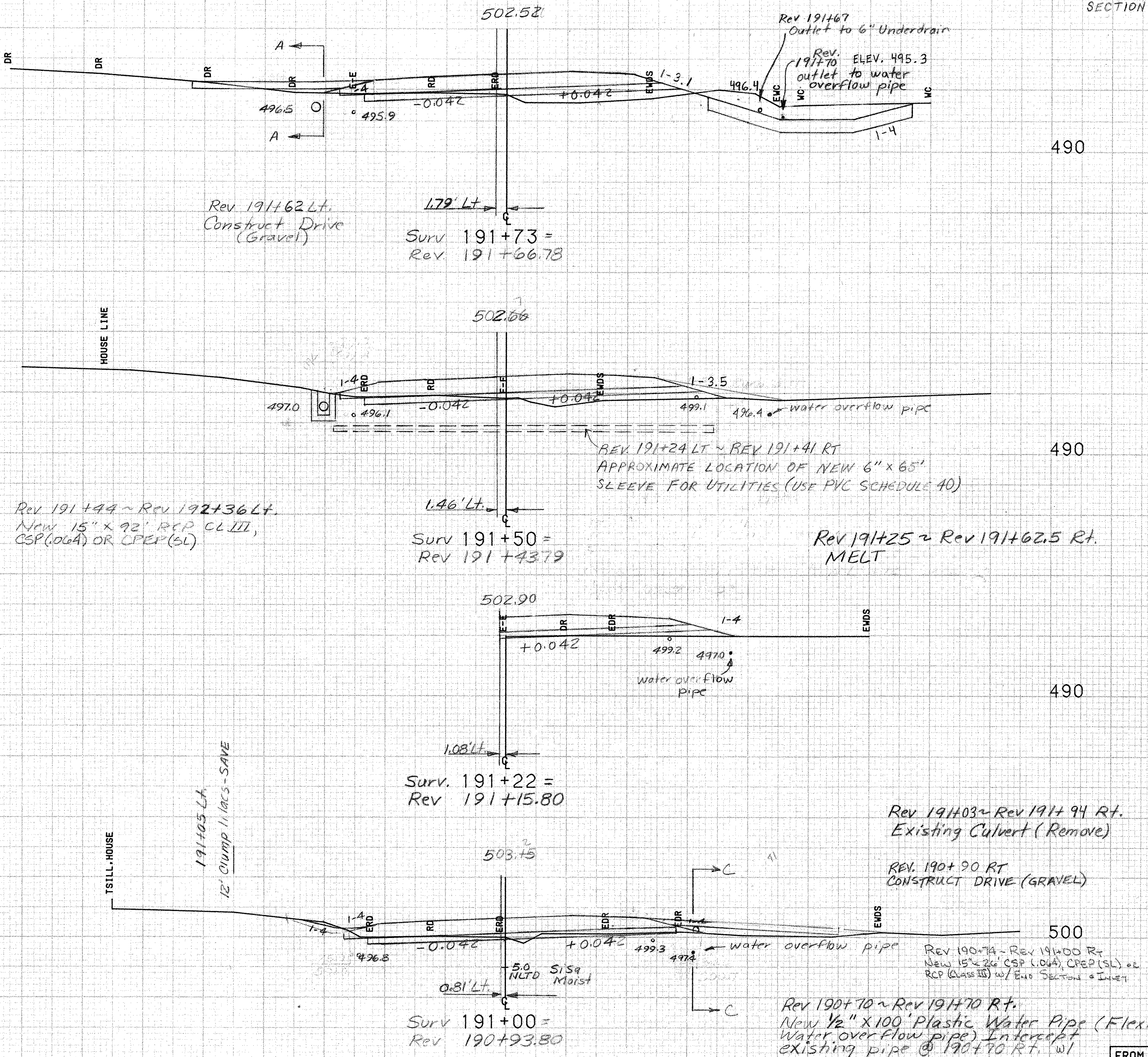
FROM STA. 189+50 TO STA. 190+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. ~~RS EGC~~ RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 90 OF 243 SHEETS

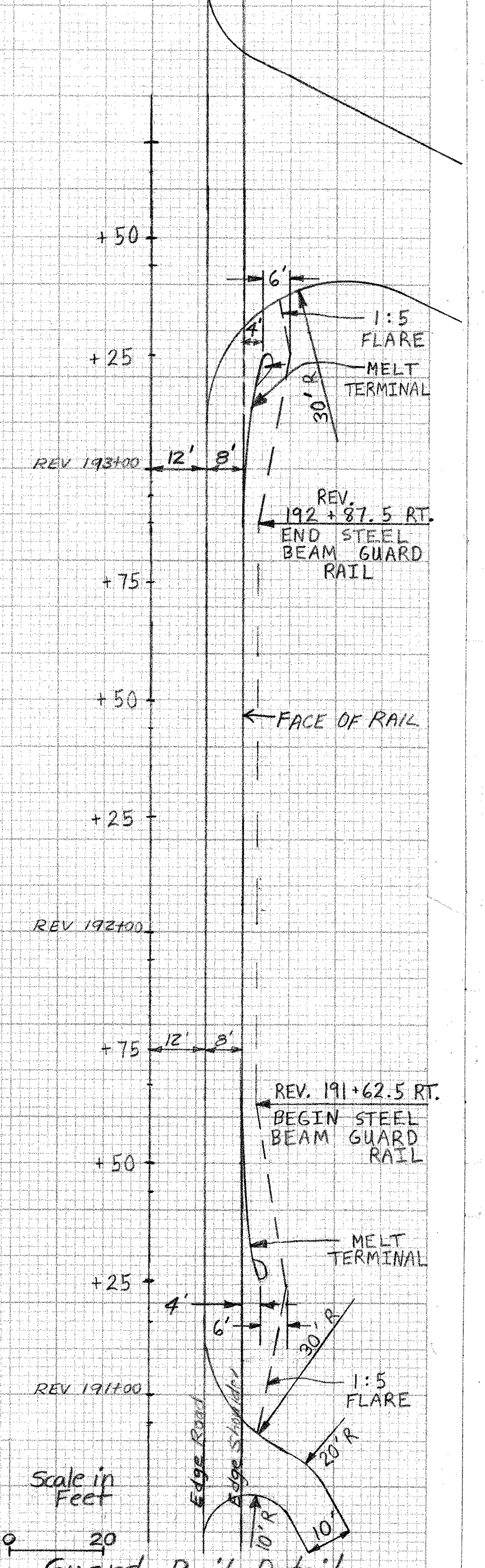


REV. 191+66.78
SECTION A-A



REV 190+75.80
SECTION C-C





Guard Rail Detail

FROM STA. 191+00 TO STA. 191+73
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS ESC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 91 OF 243 SHEETS

SCALE 10 FEET

Rev 193+09 Lt.
Existing 48" RCP - Remove Pipe and Hdwl.
(Askew 52°33' Lt.)
Backfill Trench w/ Material Removed
from Trench for 60" Pipe.

Surv 193+06 =
Rev 192+99.68

Rev 192+69 ~ Rev 193+20 Rt.
Removal and Disposal
of Guard Rail

Surv 193+00 =
Rev 192+93.68

192+65 ℄
Combo pole

REV. 192+69 LT.
CONSTRUCT DRIVE (GRAVEL)

REV 192+69
(Interpolated Section)

REV. 191 + 87 RT. ~ REV. 193 + 94 RT.
NEW 6" × 207' UNDERDRAIN
w/ FB @ 193 + 94 RT.

Rev 192+87.5 ~ Rev 193+25 Rt.
MELT

REV PT 193+25.34
0.042 Ft/Ft
2°15' Lt.

Shoulder and Banking Transition

REV. 192 + 36 LT. ~ REV. 193 + 94 LT.
NEW 18" × 180' PCCSP (.064),
CAAP (.060) OR CPEP

12" Subbase *

Surv 192+50 =
Rev 192+43.72

Section A-A

* 3" Subbase of Crushed Gravel (Fine Graded) over 9" Dense Graded Crushed Stone

SiSa
A-2-4 Moist
NLTD

Rev 192+00 Lt.
Relocate Mailbox -
Single Support

Surv 192+00 =
Rev 191+93.76

REV. 191 + 87
Outlet to Underdrain
ELEV. 495.00

Geotextile under Stone Fill

NLTD
(HAND)

Inlet Elev. 494.20

* REV. 191 + 85 RT. ~ REV. 193 + 96 LT.
NEW 60" × 258' CSP (.138) OR CAAP (.135)
W/ INLET DITCH W/ STONE FILL, TYPE II
* ((SEE SHEETS 66, 67 & 68 FOR CULVERT, CULVERT INLET AND HEADWALL DETAILS))

SCALE 10 FEET

FROM STA. 192+00 TO STA. 193+06
PROJECT NAME MORETOWN-MIDDLESEX
NO. RSEGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 92 OF 243 SHEETS

Rev 193+09 Lt.
Existing 48" RCP - Remove Pipe and Hdwl.
(Askew 52°33' Lt.)
Backfill Trench w/ Material Removed
from Trench for 60" Pipe.

Surv 193+06 =
Rev 192+99.68

This Area Excavated During Installation of 60" Culvert
No Common Exc. - WRF 10-16-02

Extra Common Rock Added ~~~ WRF 10-16-02

REV PT 193+25.34
0.042 Ft/Ft
2°15' Lt.

Rev 192+69 ~ Rev 193+20 Rt.
Removal and Disposal
of Guard Rail

Surv 193+00 =
Rev 192+93.68

REV. 191+87 RT. ~ REV. 193+94 RT.
NEW 6" × 207' UNDERDRAIN
w/ FB @ 193+94 RT.

REV. 192+69 LT.
CONSTRUCT DRIVE (GRAVEL)

REV 192+69
(Interpolated Section)

Rev 192+87.5 ~ Rev 193+25 Rt.
MELT

Shoulder and Banking
Transition

REV. 192+36 LT. ~ REV. 193+94 LT.
NEW 18" × 180' PCCSP (.064),
CAAP (.060) OR CPEP

12" Subbase*

Surv 192+50 =
Rev 192+43.72

Section
A-A

* 3" Subbase of Crushed Gravel
(Fine Graded) over 9" Dense
Graded Crushed Stone

REV. 191+87
Outlet to Underdrain
ELEV. 495.00

Geotextile under
Stone Fill

Inlet Elev. 494.20

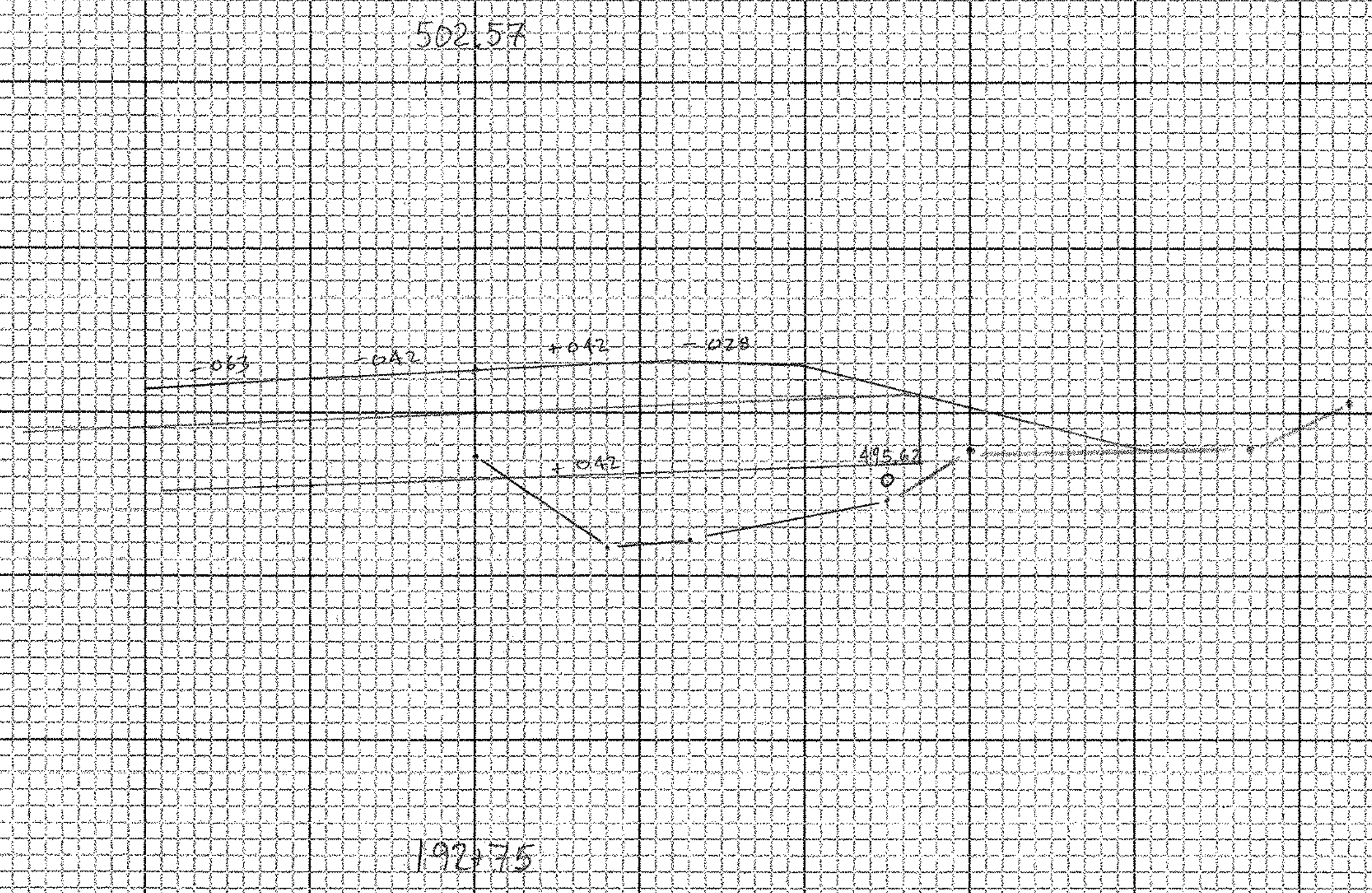
Rev 192+00 Lt.
Relocate Mailbox-
Single Support

*REV. 191+85 RT. ~ REV. 193+96 LT.
NEW 60" × 258' CSP (.138) OR CAAP (.135)
W/ INLET DITCH W/ STONE FILL, TYPE II
*(SEE SHEETS 66, 67 & 68 FOR CULVERT, CULVERT INLET
AND HEADWALL DETAILS)

Surv 192+00 =
Rev 191+93.76

SCALE 10 FEET

FROM STA. 192+00 TO STA. 193+06
PROJECT NAME MORETOWN-MIDDLESEX
NO. RSEGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 92 OF 243 SHEETS



DRILLING & BLASTING SUBGRADE

CROSS SECTION SHEET

PROJECT NAME: ____________

PROJECT NUMBER: ____________

FILE NAME: M 192+75
PLOT DATE: 05-JUN-2000 09

PROJECT LEADER: ____________
DRAWN BY: STW

DESIGNED BY: ____________
CHECKED BY: ____________

const: g:/common/cadd/e-xsection.dgn
SHEET 92A OF ______

FROM STA. 193+50 TO STA. 194+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 9_ OF 2__ SHEETS

* 3" SUBBASE CRUSHED GRAVEL (FINE GRADED) OVER 15" DENSE GRADED CRUSHED STONE

BRIDGE NO. 300 (RETAINING WALL) QUANTITIES RIGHT OF PTH LINE

BRIDGE NO. 300 QUANTITIES START AT REV. STATION 193+75 RT EXCLUDING DRAINAGE ITEMS SHOWN AT REV. STATION 193+94 TO 193+75 RT

REV. 193+94 LT. ~ REV. 196+40 LT.
NEW 6" × 246' UNDERDRAIN W/ FB
@ 196+40 LT.

REV 193+94 ~ 196+65 LT
NEW 18" × 270' CAAP (.060), CSP (.064)
OR CPEP

REV. 193+94 LT. ~ REV. 194+00 LT.
NEW 18" × 62' CAAP (.060), CSP (.064)
OR CPEP

REV. 193+94 ℄
NEW 18" × 78' CAAP (.060),
CSP (.064) OR CPEP

Rev 193+70 ~ Rev 199+40 Lt.
Removal and Disposal of
Guard Rail

REV. 193+70 RT.
CONSTRUCT DRIVE
(GRAVEL)

Rev 193+31 ~ Rev 193+68.5 Lt.
MELT

REV. 193+54 LT
EXISTING 48" BOILER PIPE
REMOVE W/ NEW 60" PIPE

*No Common Exc. Removed with Culvert Installation. WRF 11-07-02

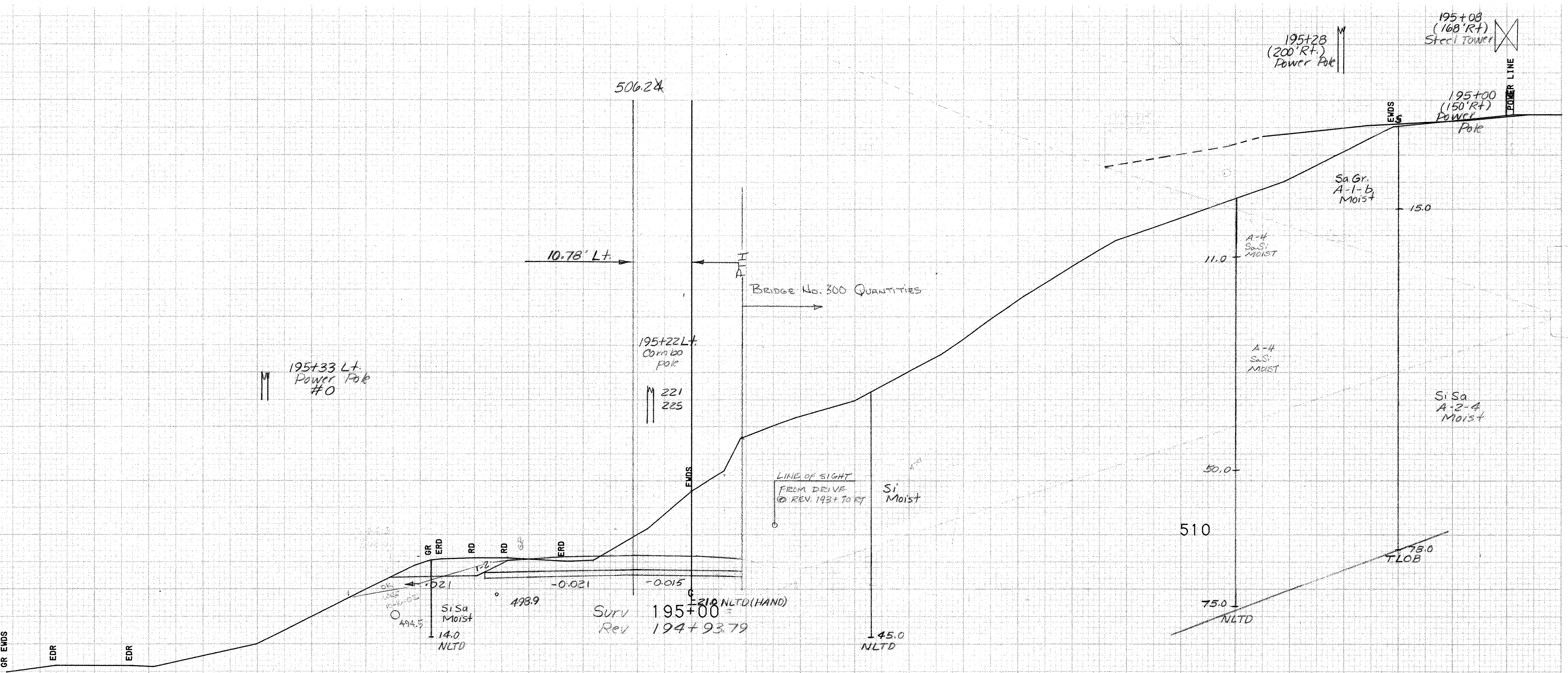
Rev 193+11 Rt ~ Rev 193+26 Lt.

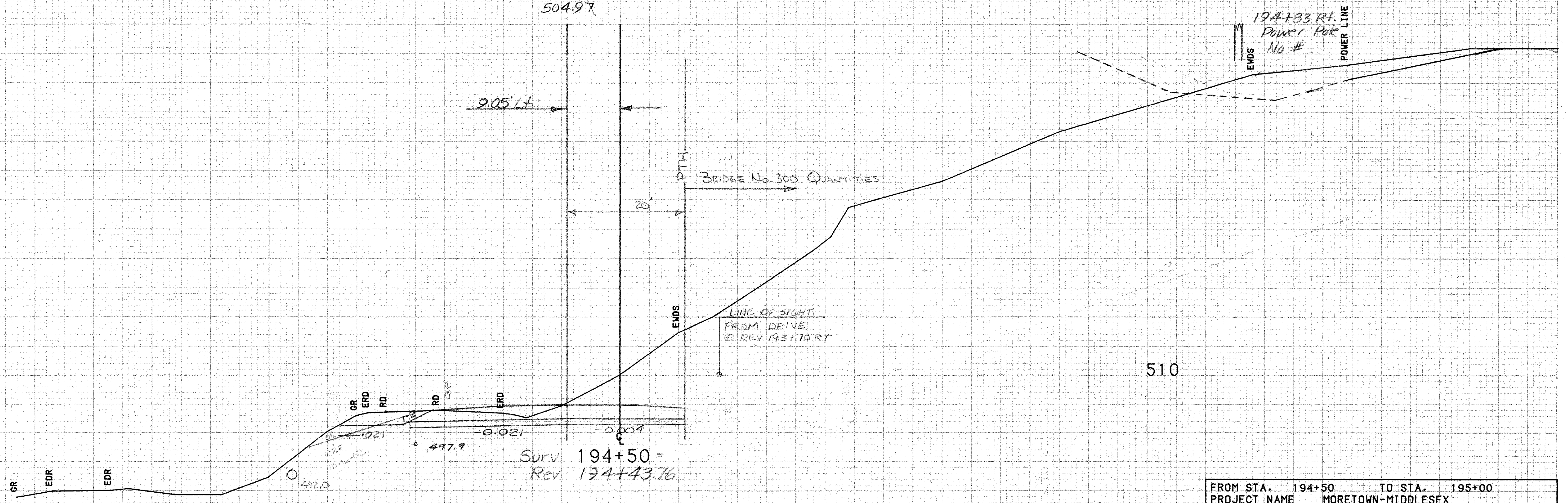
REV. 193+11 RT ~ REV. 193+26 LT.
APPROXIMATE LOCATION OF NEW
6" X 62' SLEEVE FOR UTILITIES (USE
PVC SCHEDULE 40)
W/ EXTENSION SERVICE BOX
AND CURB STOP @ 193+11 RT
NEW 1¼" X 62' SEAMLESS COPPER
WATER TUBE. (INTERCEPT EXISTING)

Rev 193+24 Lt.
Existing 7'x5' Conc. Box
Remove 56' of Existing Concrete Box *
Rev 193+44 ~ 193+84 ℄
Existing 15" CGMP - Remove (with common excavation)

* Back Fill Trench w/ Material Removed
from Trench for 60" Pipe

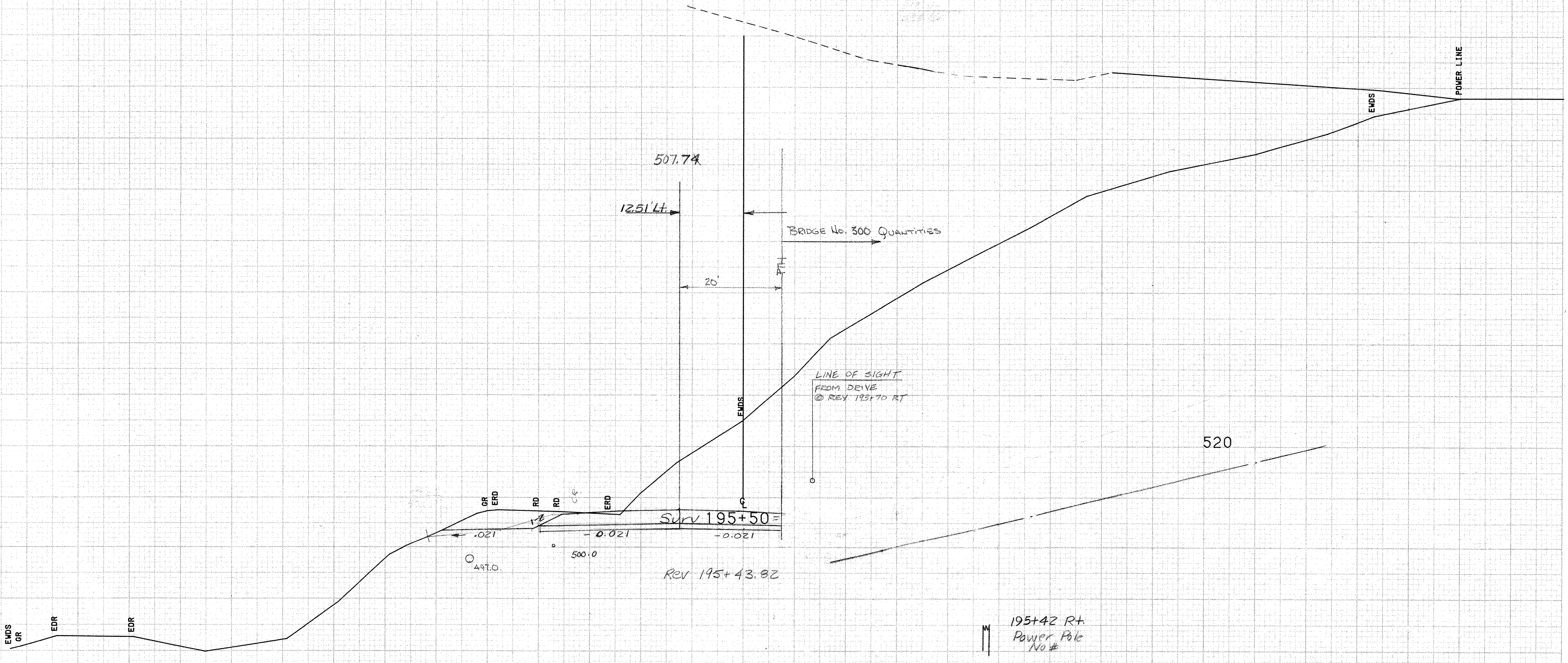
FROM STA. 193+50 TO STA. 194+00
PROJECT NAME MORETOWN-MIDDLESEX
NO RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 93 OF 243 SHEETS





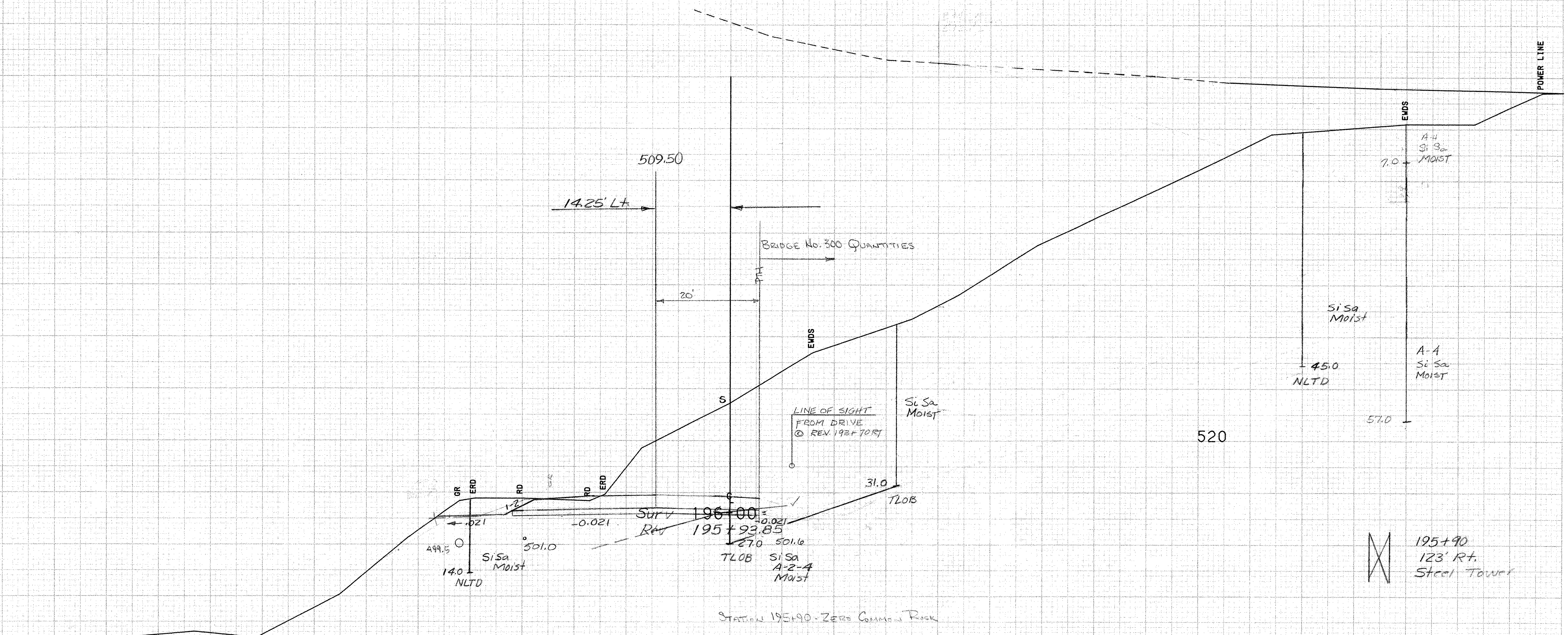
SCALE 10 FEET

FROM STA. 194+50 TO STA. 195+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167(9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 94 OF 243 SHEETS



SCALE ⊢ 10 FEET ⊣

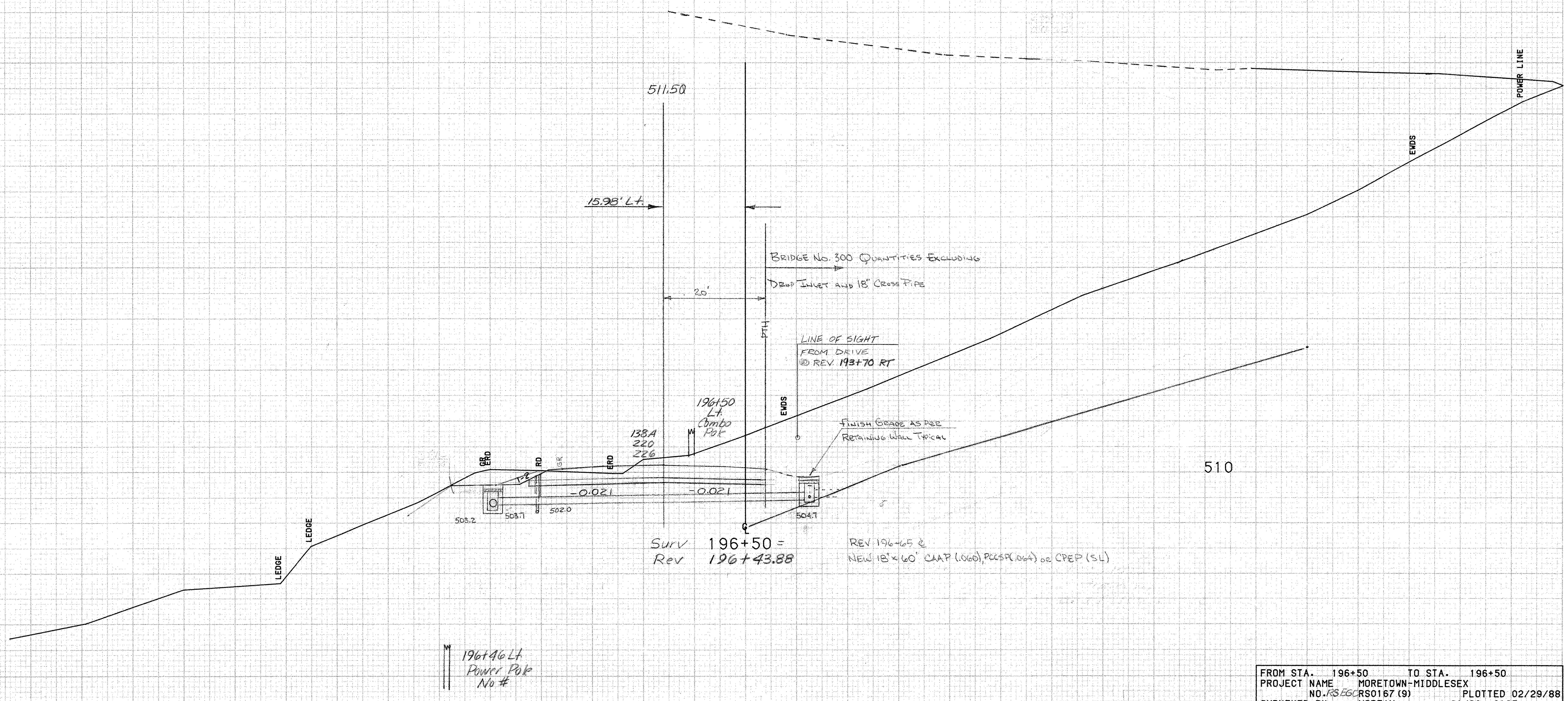
FROM STA. 195+50 TO STA. 195+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 95 OF 243 SHEETS



SCALE 10 FEET

FROM STA. 196+00 TO STA. 196+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 96 OF 243 SHEETS

FROM STA. 196+50 TO STA. 196+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS0167(9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 97 OF SHEETS

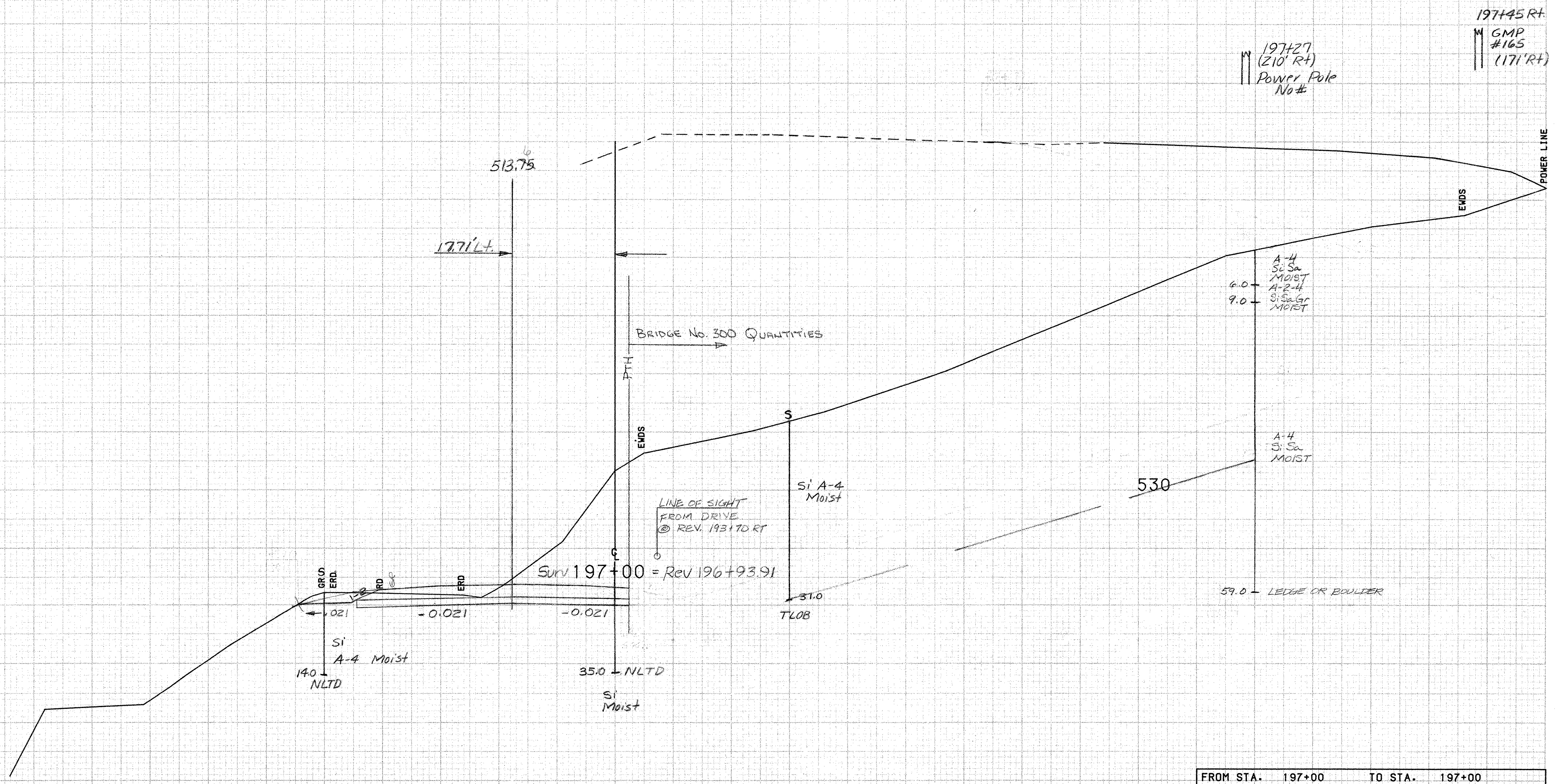


Surv 196+50 =
Rev 196+43.88

REV 196+65 ℄
NEW 18"x 60' CAAP (.060), PCCSP(.064) or CPEP (SL)

SCALE 10 FEET

FROM STA. 196+50 TO STA. 196+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RSEGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 97 OF 243 SHEETS

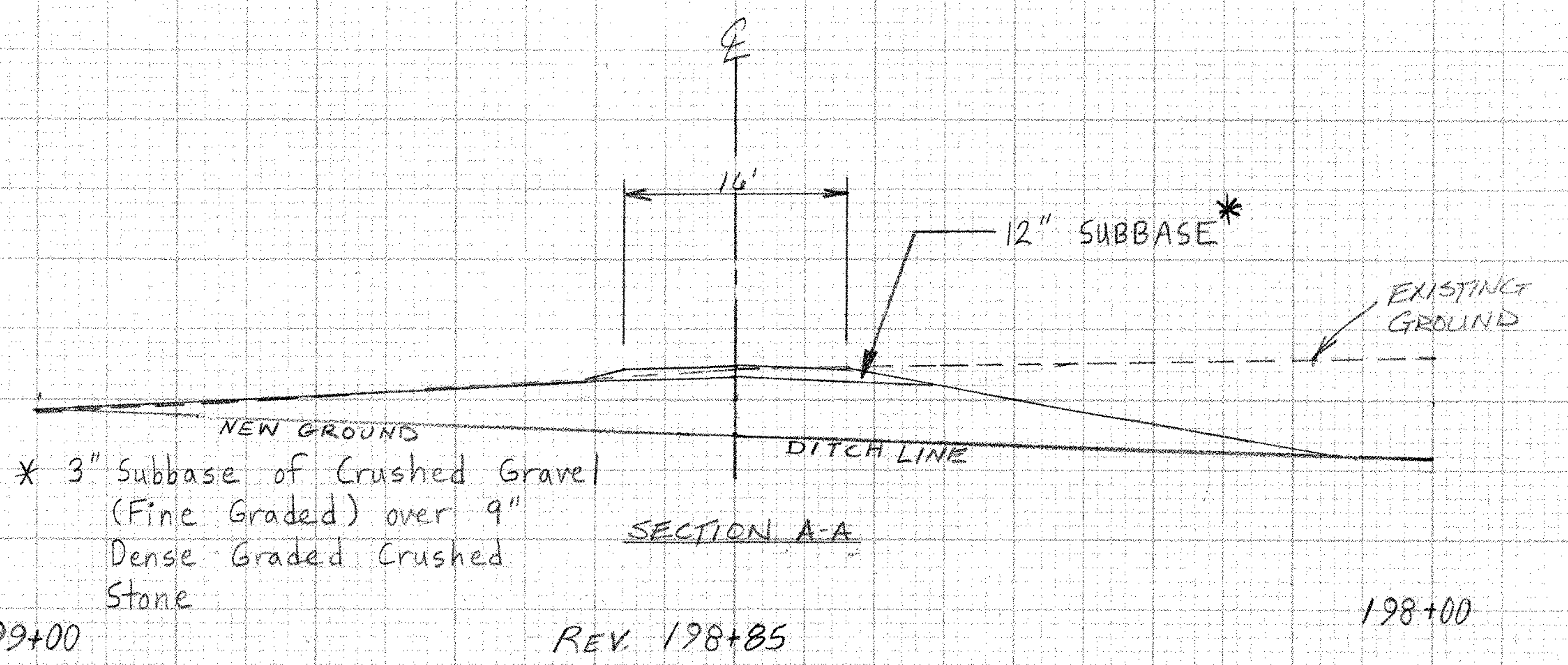


SCALE 10 FEET

FROM STA. 197+00 TO STA. 197+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 98 OF 243 SHEETS

REV. STA. 197 + ~~93.97~~ 60 CL ~ REV. STA. 198 + 75 C.L.
REMOVAL OF PAVEMENT 0-2' BELOW SUBGRADE
(PAID AS COMMON EXCAVATION)

FROM STA. 197+50 TO STA. 198+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 99 OF 243 SHEETS

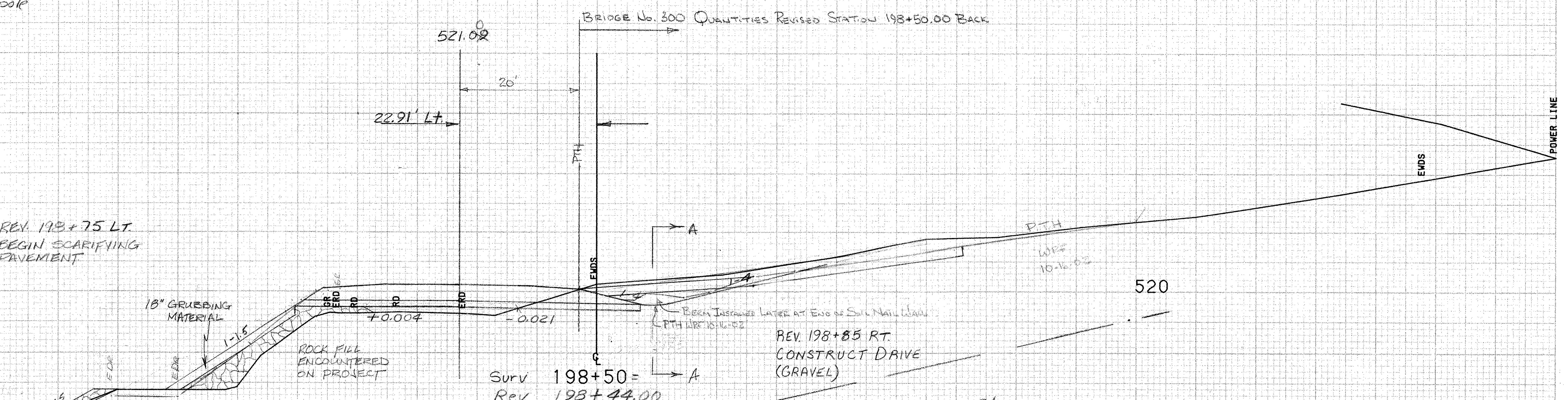


* 3" Subbase of Crushed Gravel (Fine Graded) over 9" Dense Graded Crushed Stone

SECTION A-A

REV. 198+85

198+67 Lt.
Combo pole
227
2



BRIDGE No. 300 QUANTITIES REVISED STATION 198+50.00 BACK

REV. 198+75 LT.
BEGIN SCARIFYING PAVEMENT

ROCK FILL ENCOUNTERED ON PROJECT

ROCK FILL ENCOUNTERED ON PROJECT

SEE STANDARD B-5 FOR DETAILS

BERM INSTALLED LATER AT END OF SOIL NAIL WALL

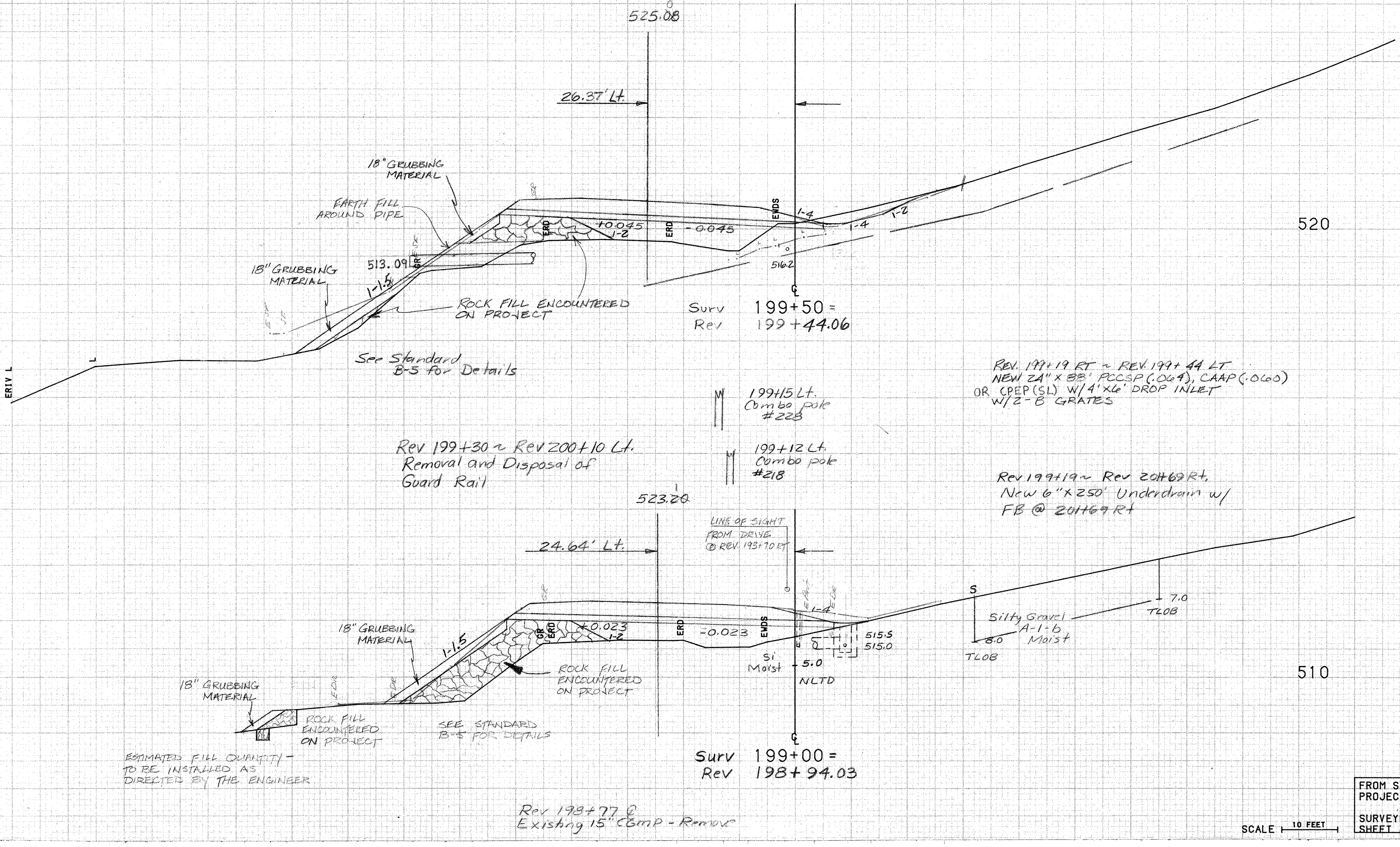
Surv 198+50 =
Rev 198+44.00

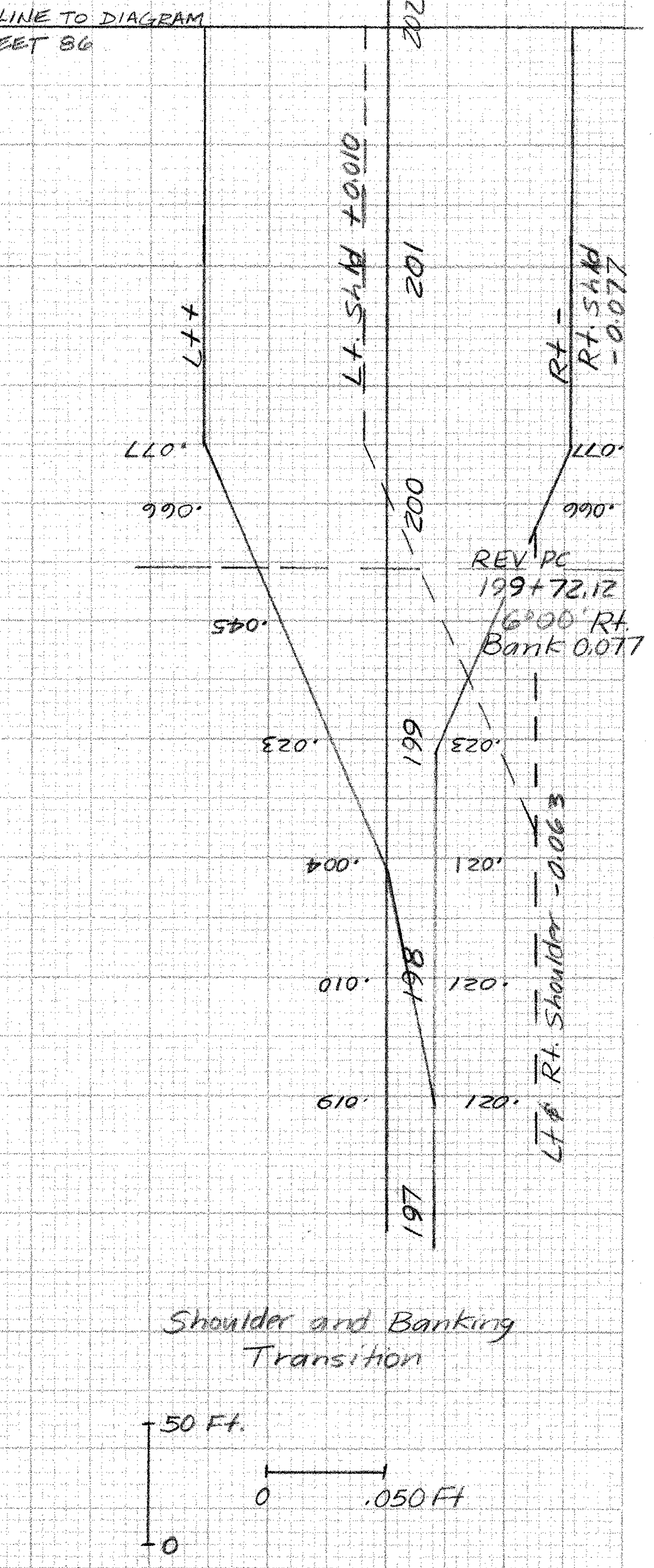
REV. 198+85 RT.
CONSTRUCT DRIVE
(GRAVEL)

198+50 Rt.
Gate For Woven Wire Fence (16' Wide)
(2-8' Gates w/ Opening in Middle)

SCALE 10 FEET

FROM STA. 198+50 TO STA. 198+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY MOREAU 01/86 0105
SHEET 100 OF 243 SHEETS

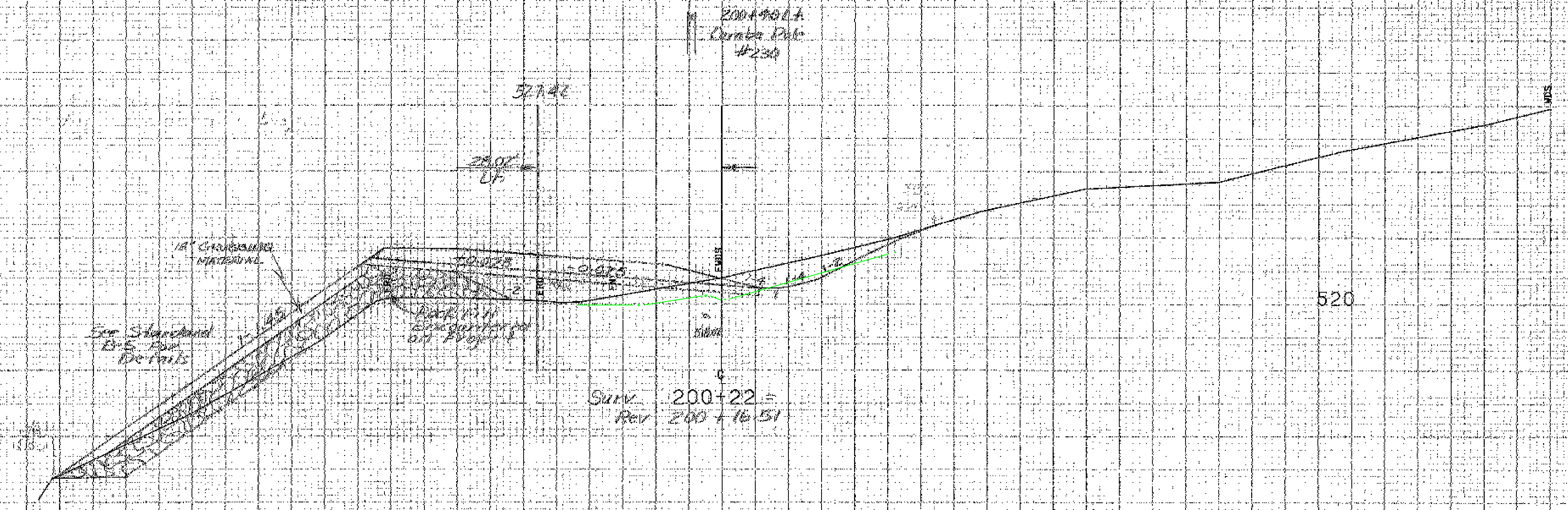




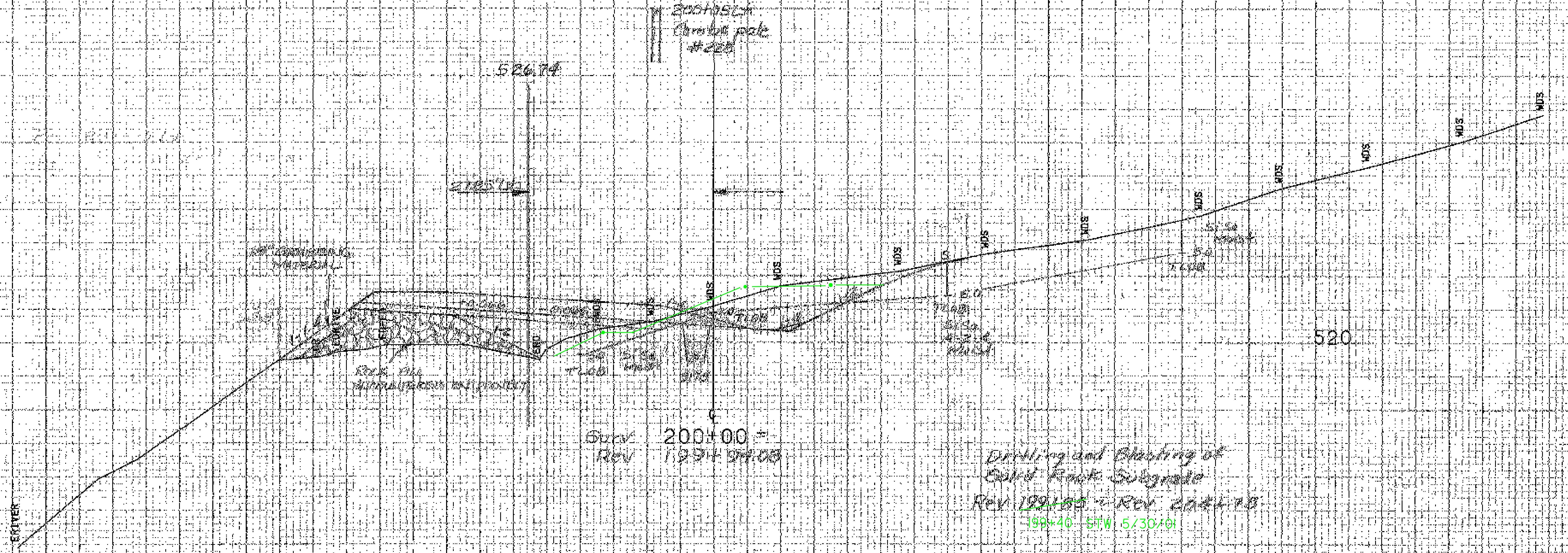
Shoulder and Banking Transition

SCALE 10 FEET

FROM STA. 199+00 TO STA. 199+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EG RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 101 OF 243 SHEETS



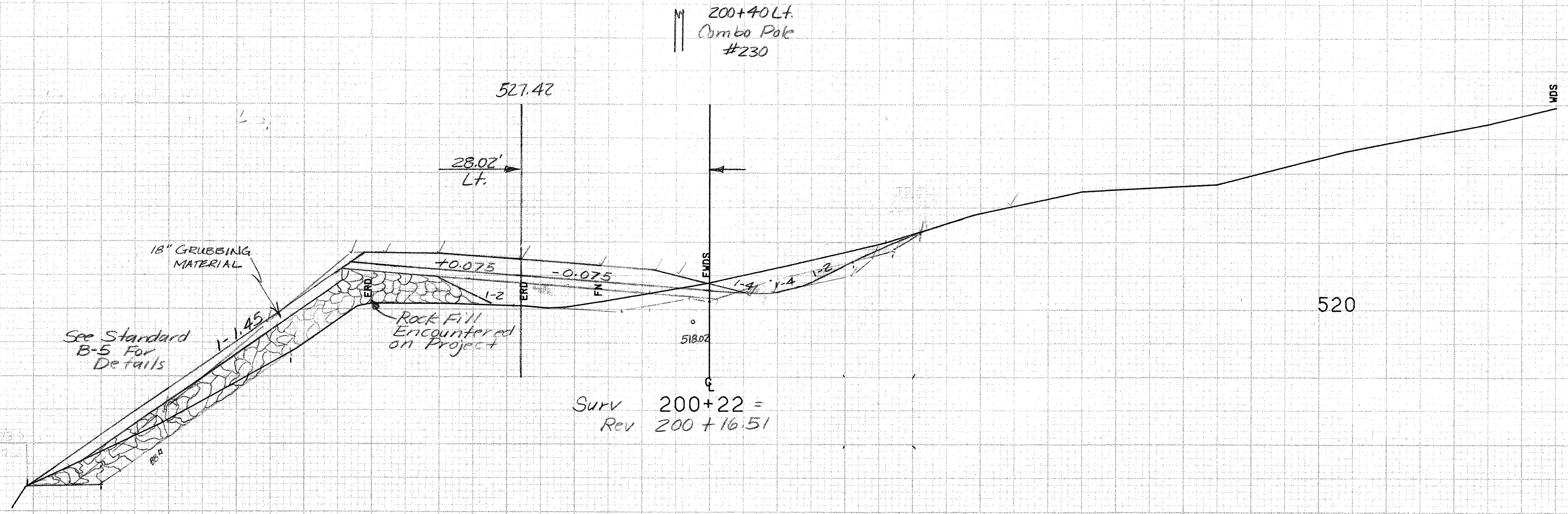
Surv 200+22 ±
Rev 200+16.51

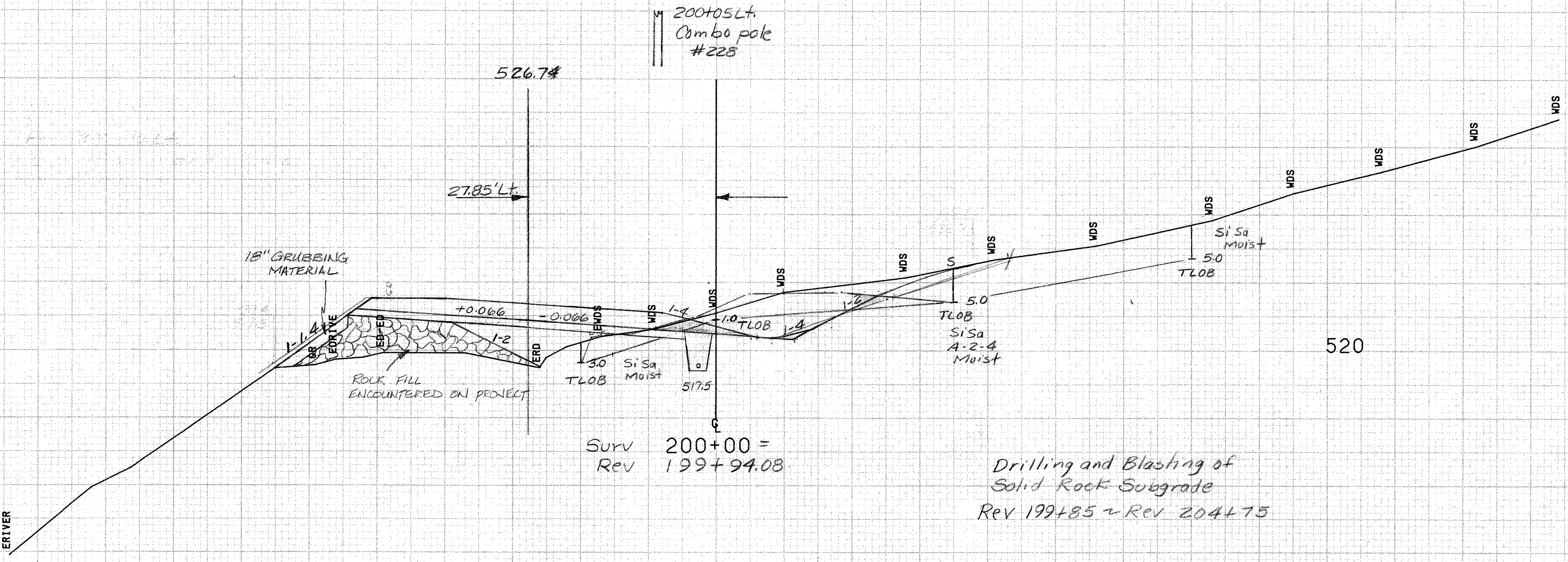


Surv 200+00 ±
Rev 199+94.08

Drilling and Blasting of
Solid Rock Subgrade
Rev ~~199+85~~ ± Rev 204+78
199+40 STW 5/30/01

FROM STA. 200+00 TO STA. 200+22
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS0157(9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 102 OF 237 SHEETS
SCALE 10 FEET

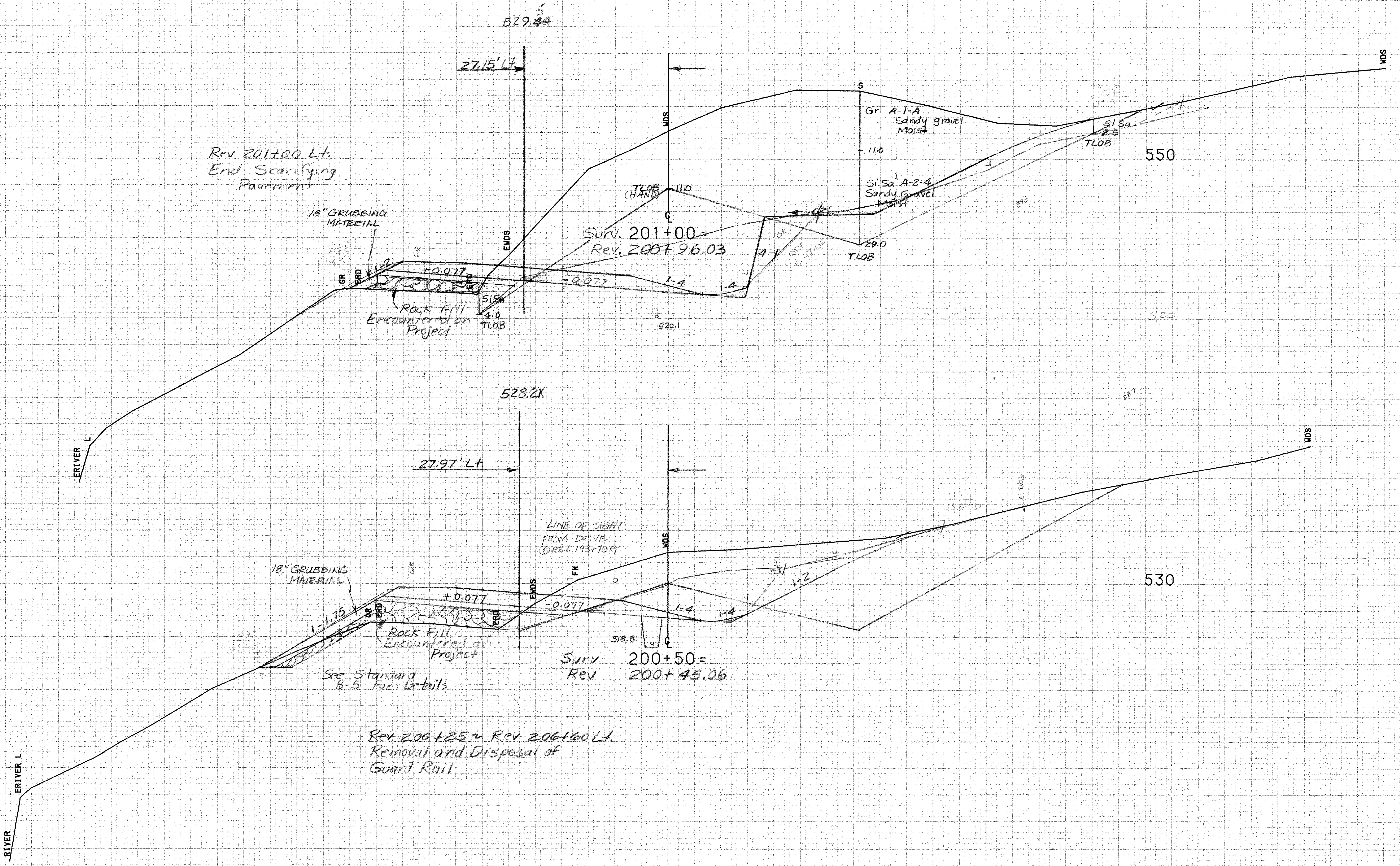




Drilling and Blasting of
Solid Rock Subgrade
Rev 199+85 ~ Rev 204+75

SCALE 10 FEET

FROM STA. 200+00 TO STA. 200+22
PROJECT NAME MORETOWN-MIDDLESEX
NO RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 102 OF 243 SHEETS

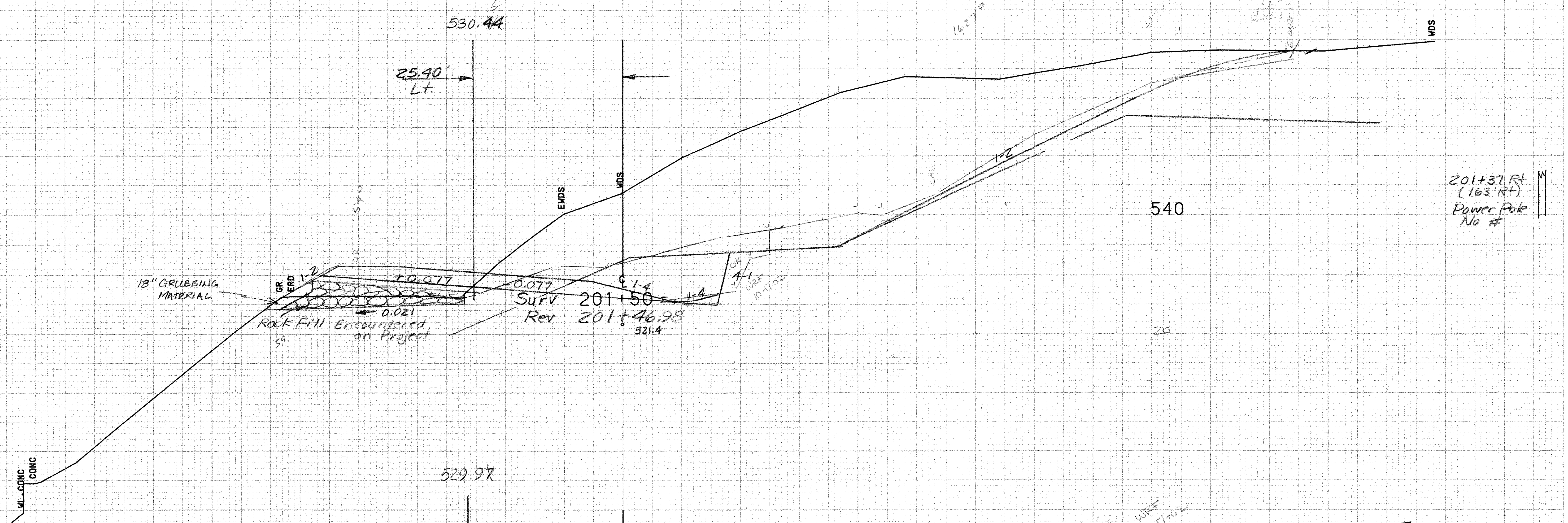


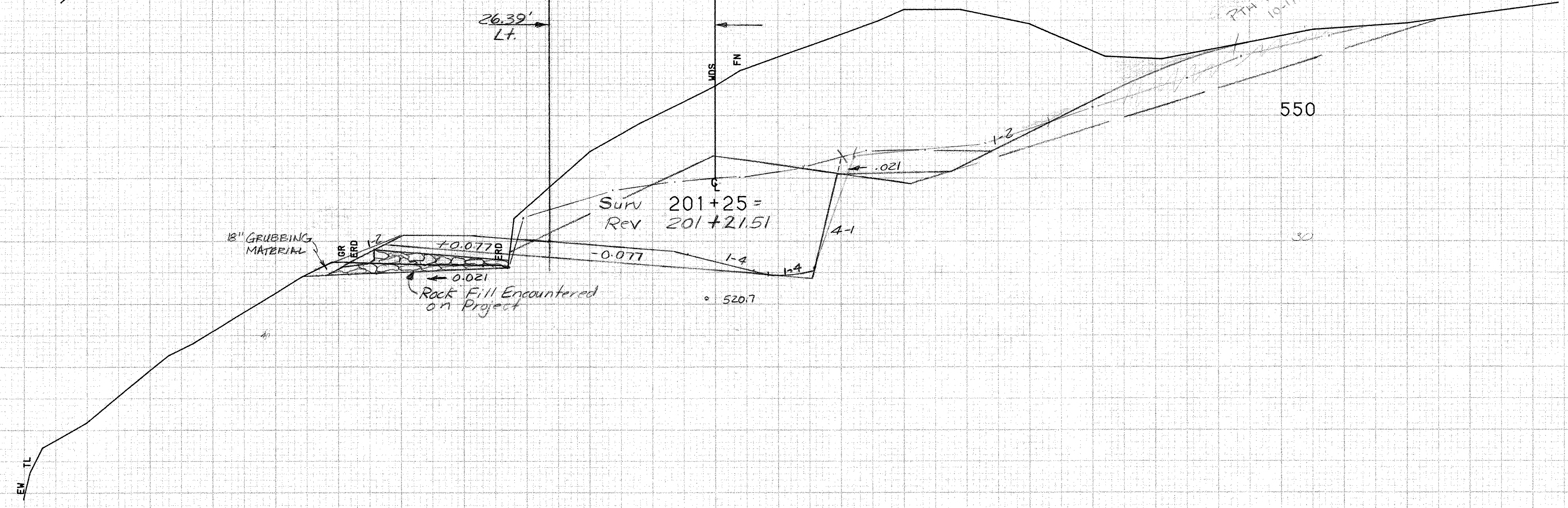
Rev 201+00 Lt.
End Scarifying
Pavement

Rev 200+25 ~ Rev 206+60 Lt.
Removal and Disposal of
Guard Rail

SCALE ⊢ 10 FEET ⊣

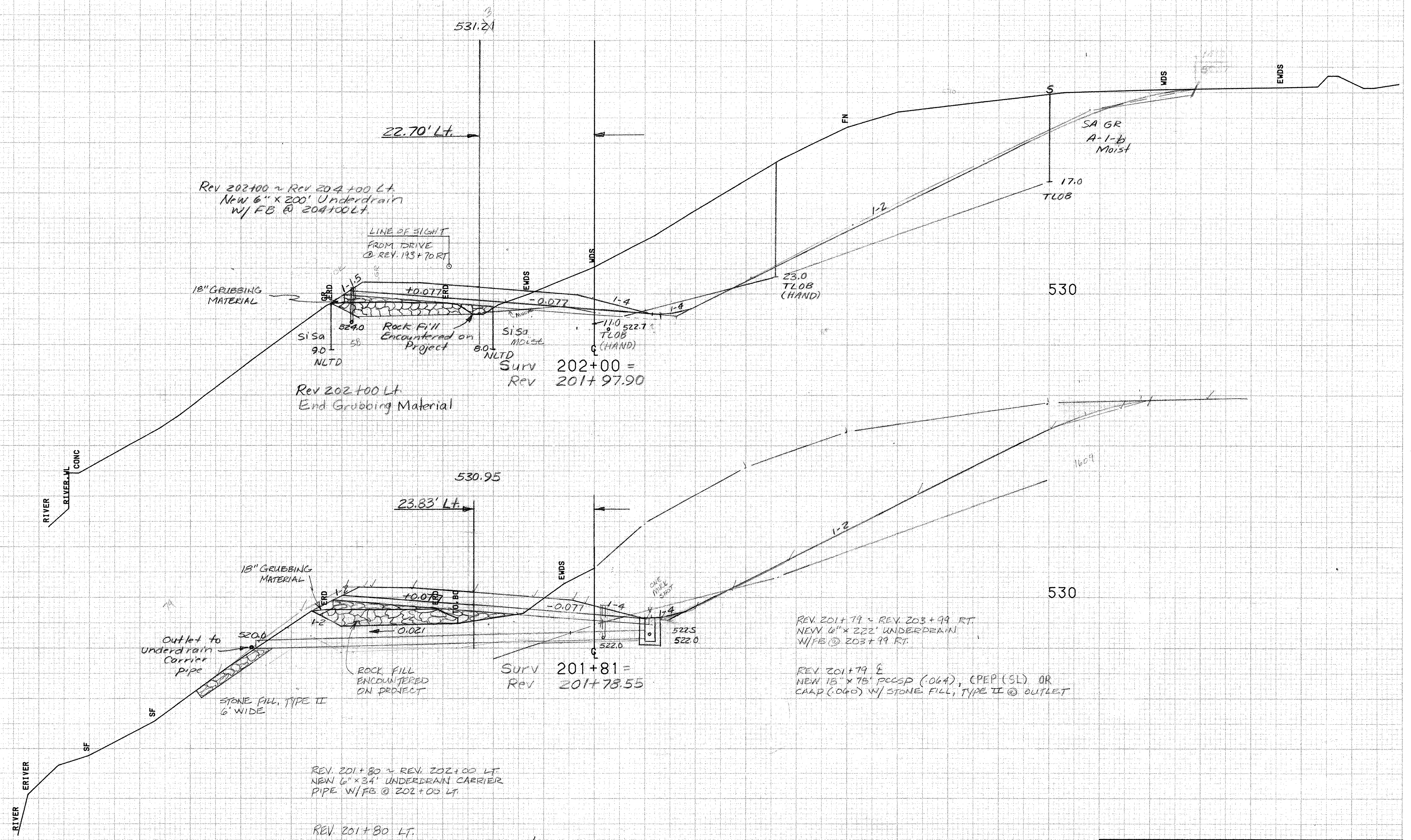
FROM STA. 200+50 TO STA. 201+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 103 OF 243 SHEETS





SCALE 10 FEET

FROM STA. 201+25 TO STA. 201+50
PROJECT NAME MORETOWN-MIDDLESEX
NO RS EGC RS0167(9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 104 OF 243 SHEETS



Rev 202+00 ~ Rev 204+00 Lt.
New 6" x 200' Underdrain
w/ FB @ 204+00 Lt.

Surv 202+00 =
Rev 201+97.90

Rev 202+00 Lt.
End Grubbing Material

Surv 201+81 =
Rev 201+78.55

REV. 201+79 ~ REV. 203+99 RT.
NEW 6" x 222' UNDERDRAIN
W/FB @ 203+99 RT.

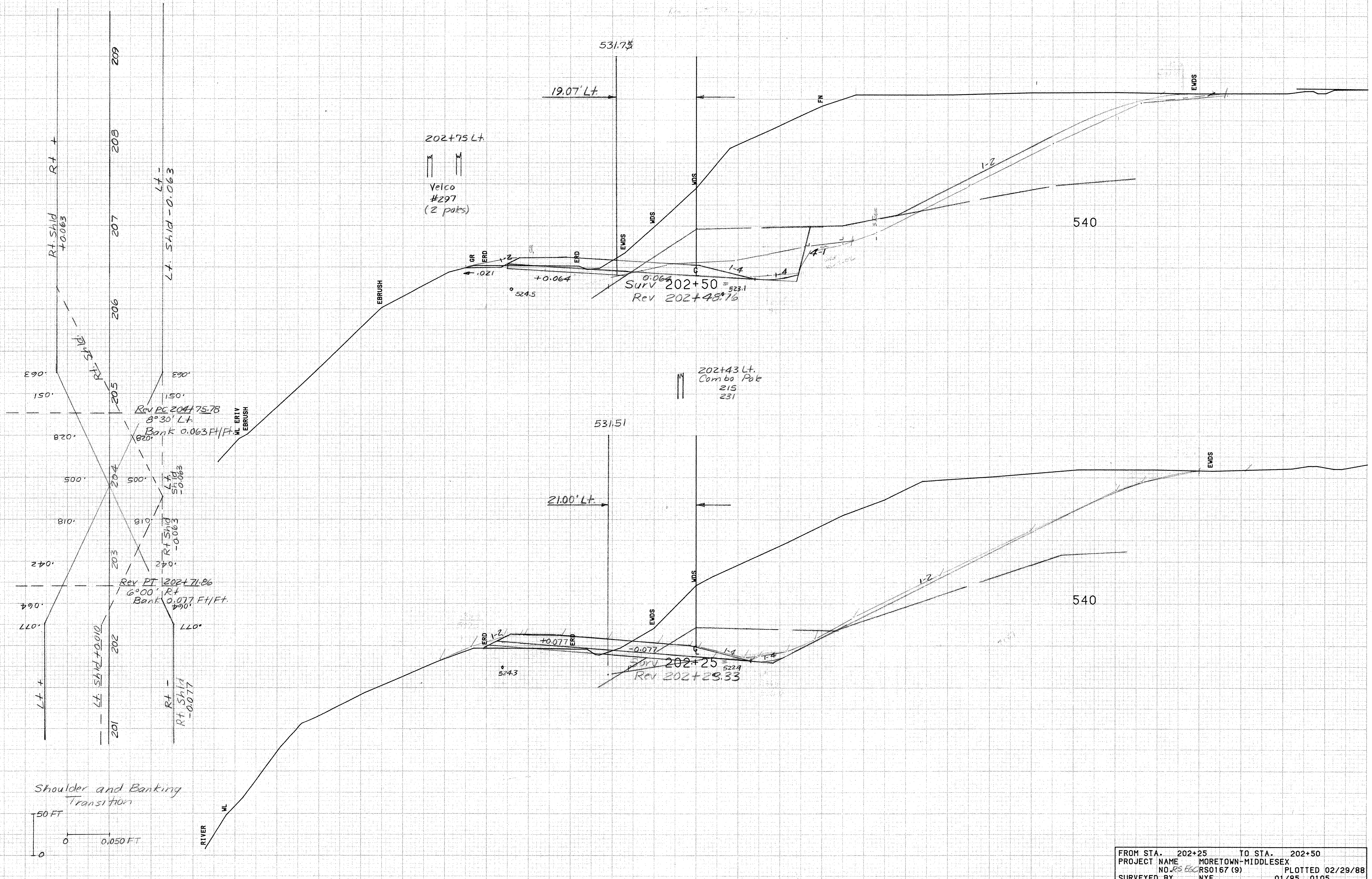
REV. 201+79 ℄
NEW 15" x 78' PCCSP (.064), CPEP (SL) OR
CAAP (.060) W/ STONE FILL, TYPE II @ OUTLET

REV. 201+80 ~ REV. 202+00 LT.
NEW 6" x 34' UNDERDRAIN CARRIER
PIPE W/FB @ 202+00 LT.

REV. 201+80 LT.
EXISTING 12" CGMP - REMOVE W/ COMMON EXCAVATION

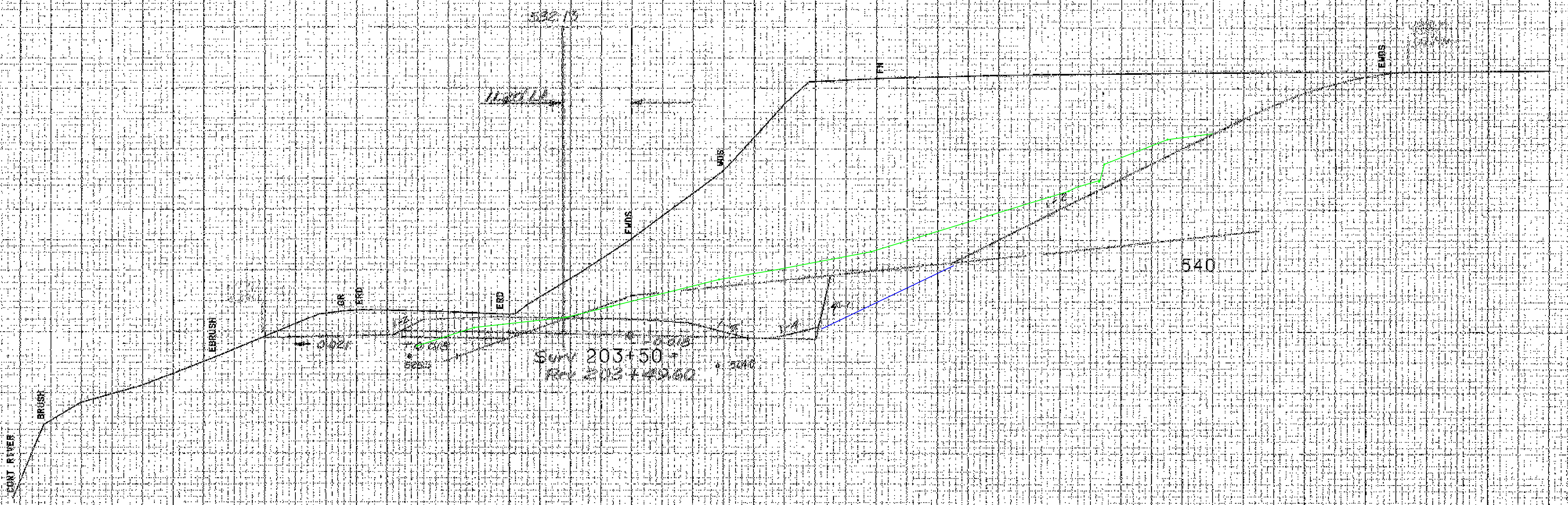
SCALE 10 FEET

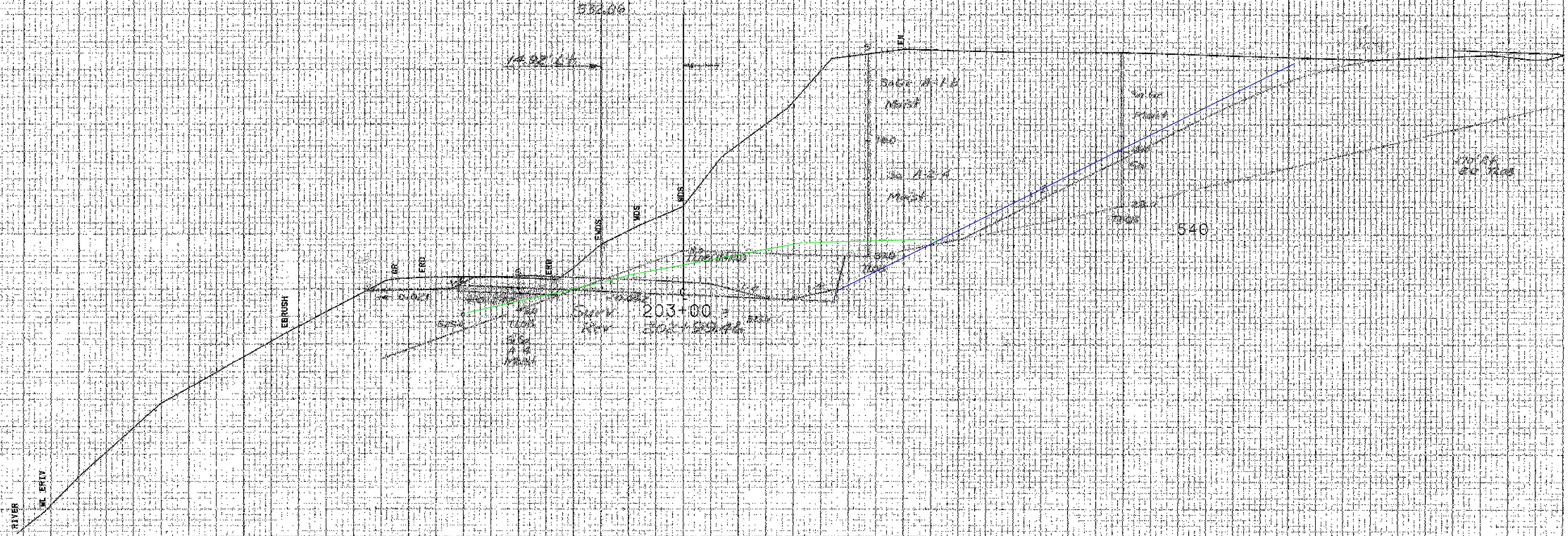
FROM STA. 201+81 TO STA. 202+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 105 OF 243 SHEETS



SCALE 10 FEET

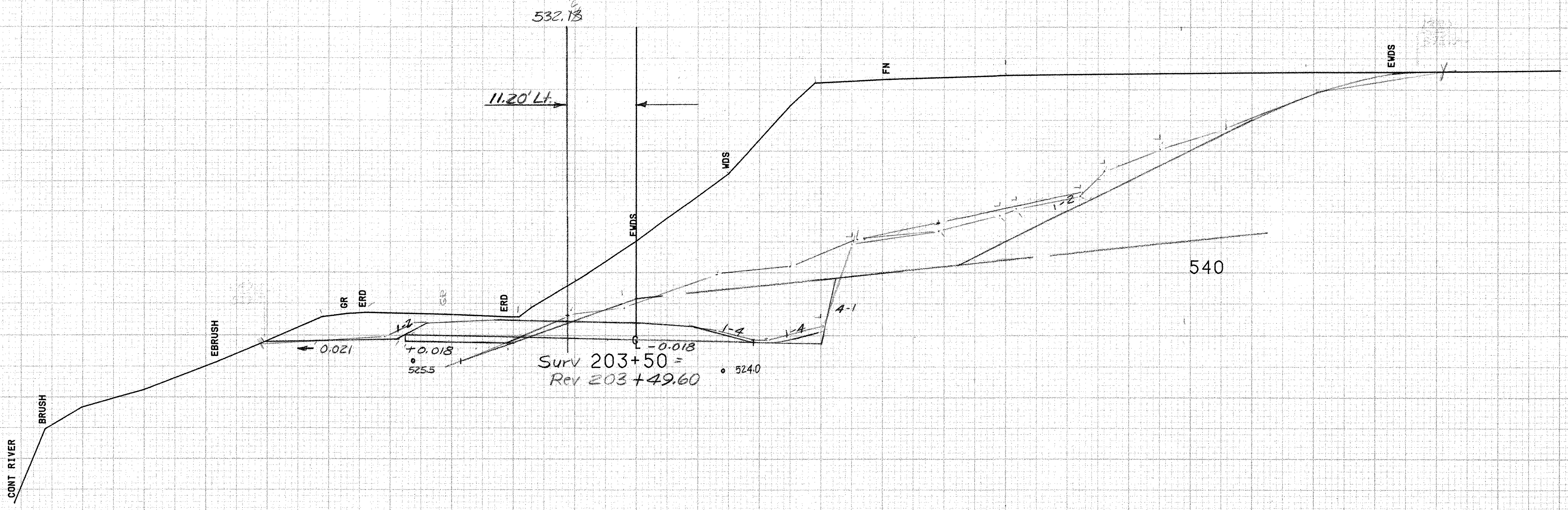
FROM STA. 202+25 TO STA. 202+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS ESC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 106 OF 243 SHEETS

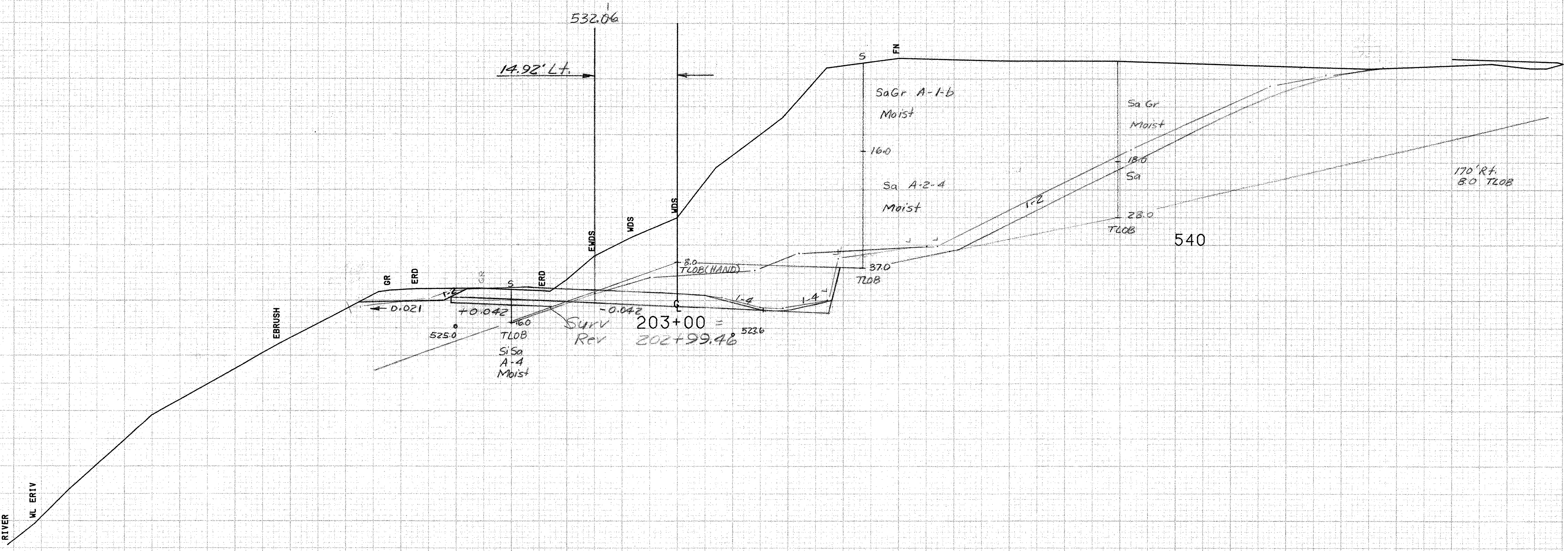




SCALE 10 FEET

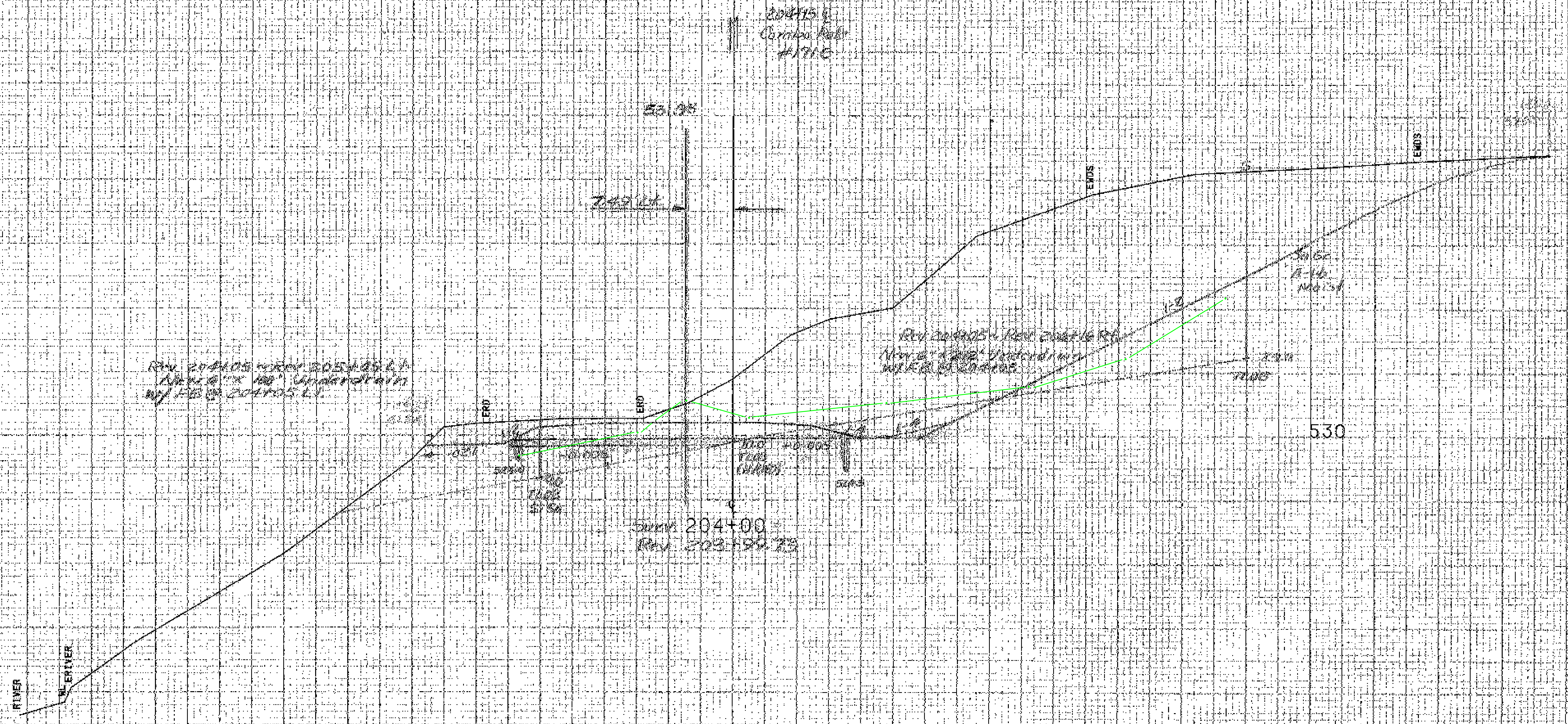
FROM STA. 203+00 TO STA. 203+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. [illegible] RS0157 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET [illegible] OF [illegible] SHEETS





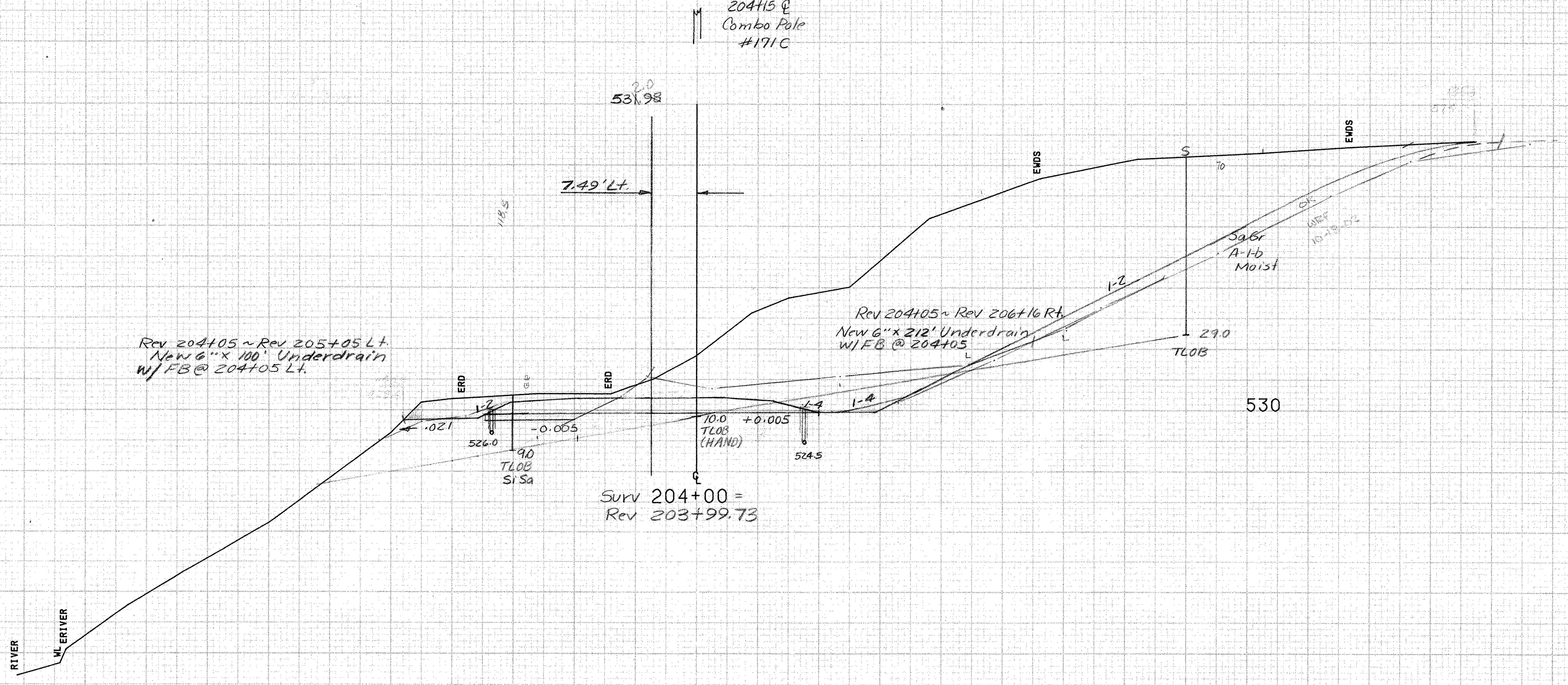
SCALE 10 FEET

FROM STA. 203+00 TO STA. 203+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 107 OF 243 SHEETS



SCALE: 10 FEET

FROM STA. 204+00 TO STA. 204+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS0167(9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 102 OF 242 SHEETS



SCALE ⊢ 10 FEET ⊣

FROM STA. 204+00 TO STA. 204+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RSO167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 108 OF 243 SHEETS

Scale H = 1:10
V = 1:10

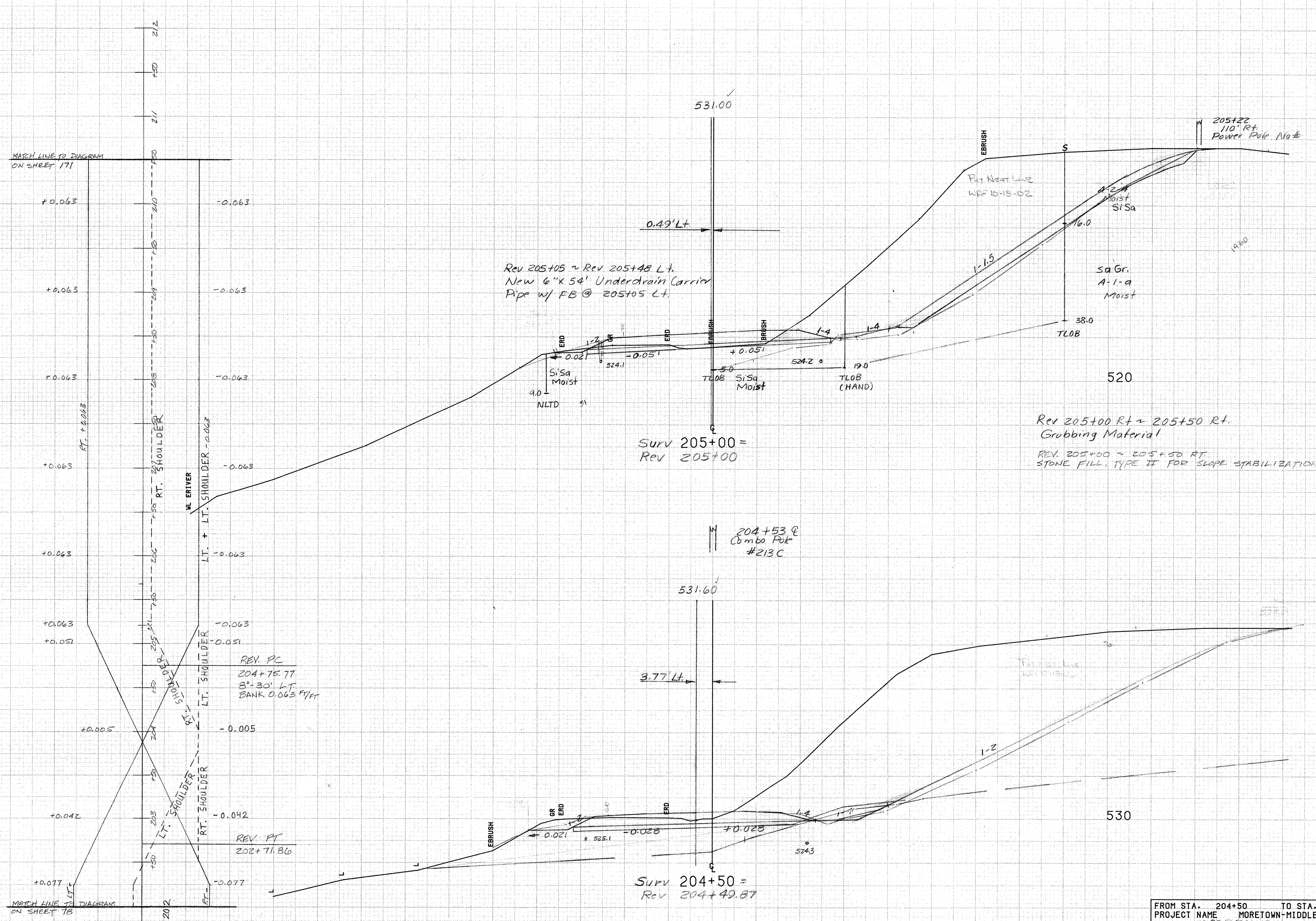
CROSS SECTION SHEET

PROJECT NAME:
PROJECT NUMBER:

FILE NAME:
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn

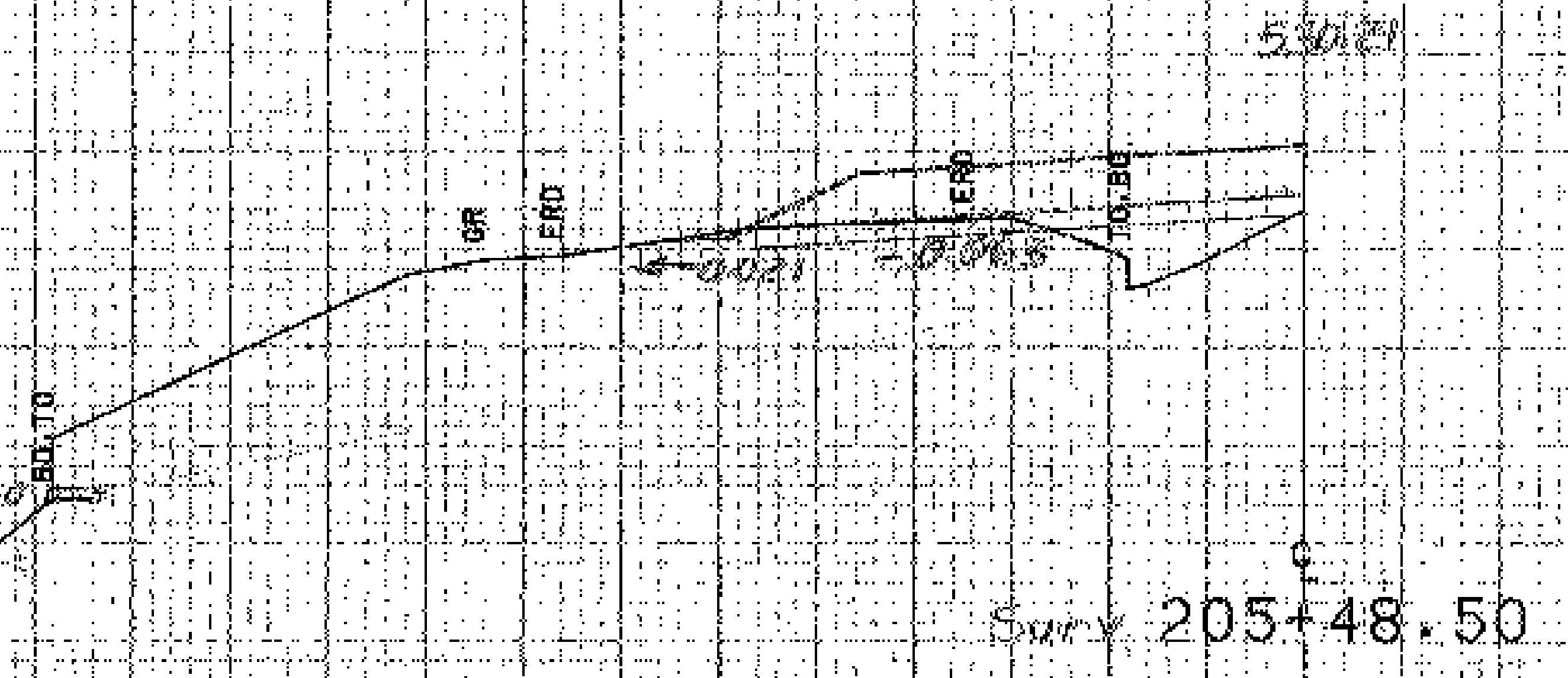
PLOT DATE: 05-JUN-2000 09
DRAWN BY:
CHECKED BY:
SHEET 108A OF

FROM STA. 204+50 TO STA. 205+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS0167(9) PLOTTED 02/29/88
SURVEYED BY NYE 01785 0105
SHEET OF SHEETS



SCALE 10 FEET

FROM STA. 204+50 TO STA. 205+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 109 OF 243 SHEETS

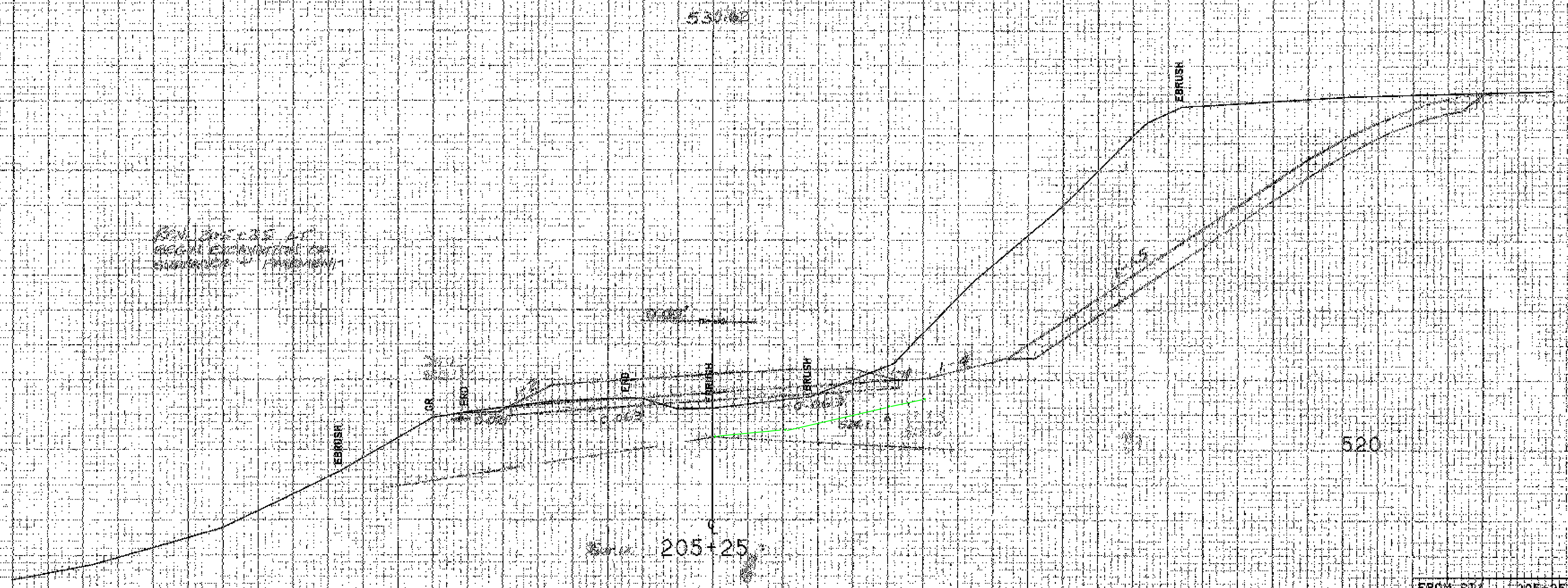


Outlet to Underdrain Pipe

Rev 205+46 Lt
Existing 15" CCMP Remove

Drilling and Blasting of
Solid Rock Subgrade

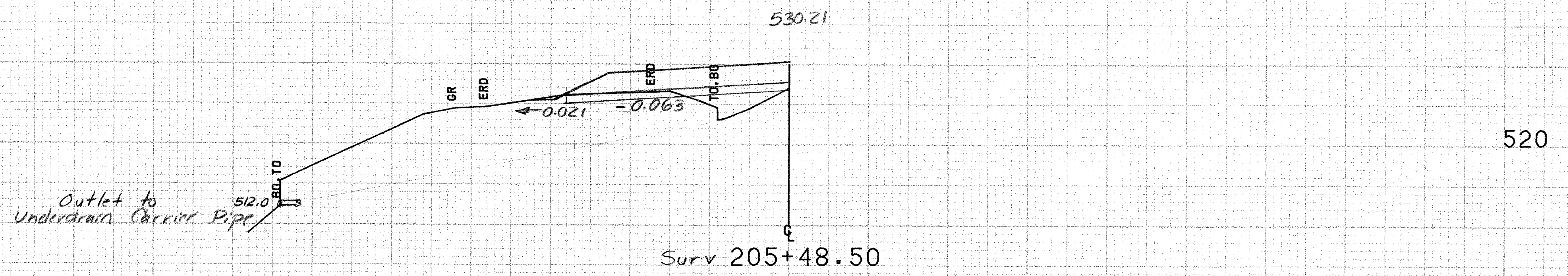
Rev 205+25 – Rev 207+25



Rev 205+35 Lt
Begin Excavation of
Subgrade & Pavement

SCALE 10 FEET

FROM STA.	205+25	TO STA.	205+48.50
PROJECT NAME	MORETOWN-MIDDLESEX		
NO.	RS0167 (9)	PLOTTED	02/29/88
SURVEYED BY	NYE	01/85	01.05
SHEET 109 OF 243 SHEETS			



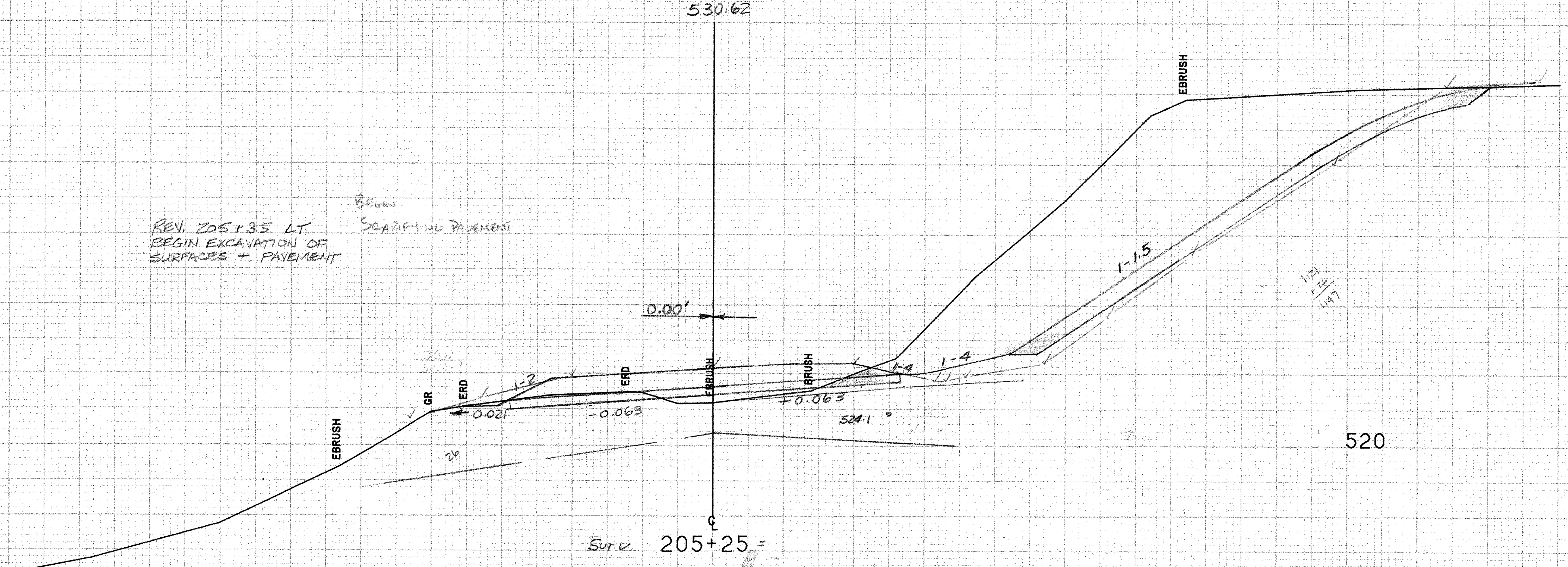
Outlet to
Underdrain Carrier Pipe

Surv 205+48.50

REV. 205+46 LT.
EXISTING 15" CGMP - REMOVE

Drilling and Blasting of
Solid Rock Subgrade

Rev 205+25 ~ Rev 207+25



REV. 205+35 LT.
BEGIN EXCAVATION OF
SURFACES + PAVEMENT

BEGIN
SCARIFYING PAVEMENT

Surv 205+25 =

SCALE 10 FEET

FROM STA. 205+25 TO STA. 205+48.50
PROJECT NAME MORETOWN-MIDDLESEX
NO. RS EGC RS0167 (9) PLOTTED 02/29/88
SURVEYED BY NYE 01/85 0105
SHEET 110 OF 243 SHEETS

FROM STA. 205+50.01 TO STA. 206+31.50
PROJECT NAME MORETOWN
NO. ~~ES~~ RS0167(9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 11 OF 240 SHEETS

FROM STA. 205+50.01 TO STA. 206+31.50
PROJECT NAME MORETOWN
NO. ~~RS EG(~~ RS0167 (9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 111 OF 243 SHEETS

CROSS SECTION SHEET

PROJECT NAME: Moretown – Middlesex
PROJECT NUMBER: RS0167(9)
FILE NAME: Ledge Section
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn
PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW 12/14/00
CHECKED BY:
SHEET 111A OF

FROM STA. 206+49.72 TO STA. 207+35.50
PROJECT NAME MORETOWN
NO. RS0167(9)
PLOTTED 04/22/87
SURVEYED BY MOREAU
01/86 0039
SHEET 112 OF 243 SHEETS

Rev 207+40 ℄
New 18" x 82' PCCSP (.064), CPEP(SL), OR
CAAP(.060) w/ End Section @ Inlet
and Stone Fill, Type II @ Outlet

℄
207+34.61 =
(ODD SECTION)
SURV 207+35.5

Rev 207+30 Lt.
Begin Treated Timber Curb

Rev. 206+80 Lt ~ Rev. 207+35 Lt.
New 18" x 58' CSP (.064)

Rev 207+16 Lt.
Combo pole No #

Rev 207+14 Lt
Guy Pole

℄
207+26.18 =
(ODD SECTION)
SURV 207+27

Rev 207+10 Lt
Combo
1935

Rev 207+10 Lt
Guy
Pole

REV. 207+00 LT.
END SCARIFYING
PAVEMENT

℄
206+99.40 =
SURV 207+00

Rev 206+78
(Interpolated)
Section)

Rev 206+90 ~ Rev 207+10 Lt.
Removal and Disposal of
Guard Rail

REV. 206+50 LT ~ REV. 206+90 LT.
EXCAVATION OF SURFACES
AND PAVEMENTS (OLD BRIDGE APPR)

GMP # 235
Rev 206+71

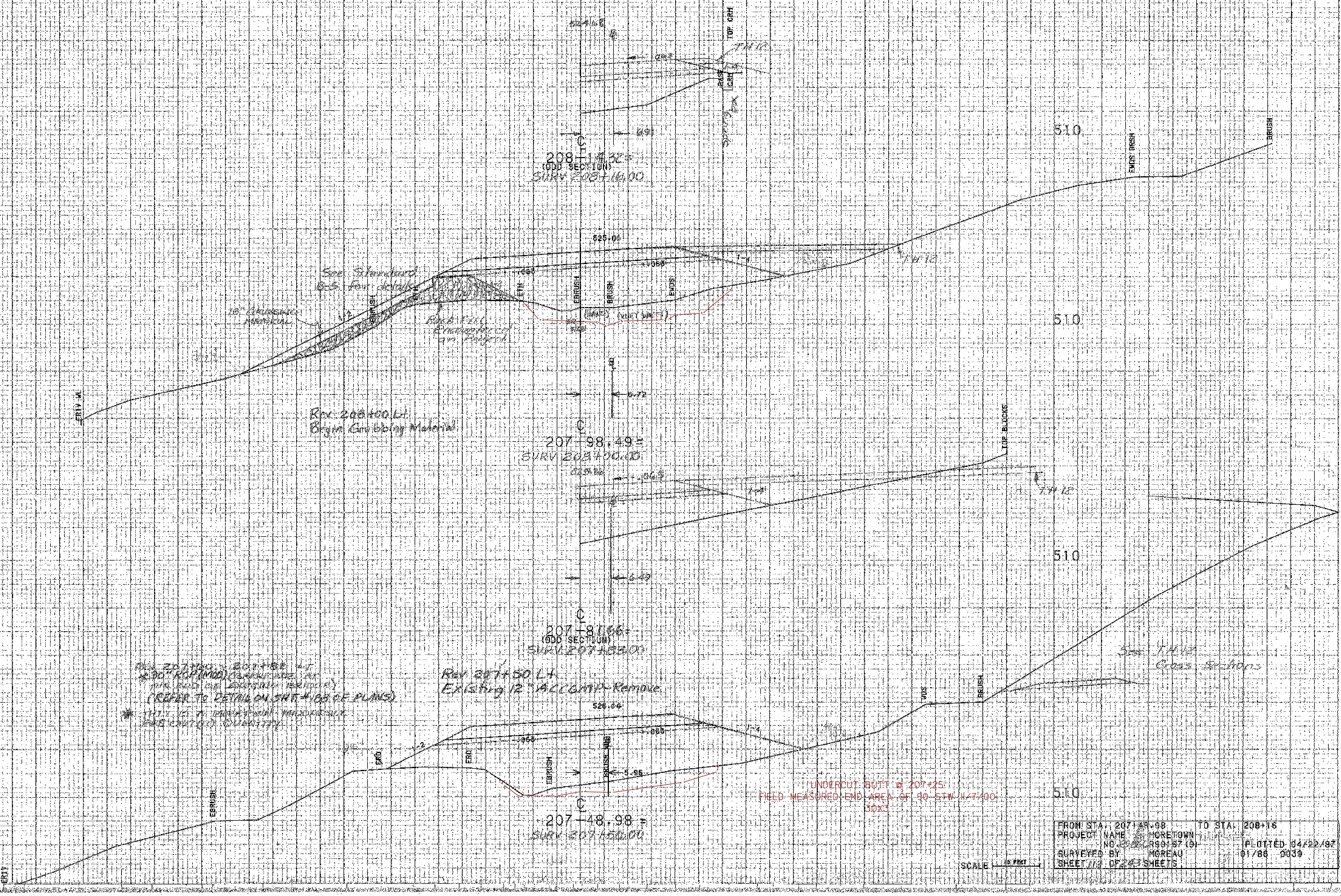
℄
206+49.72 =
SURV 206+50.00

REV. 206+42 RT ~ REV. 206+84 LT
APPROX. LOCATION OF NEW 6"x 161' (6" PVC SCHEDULE 40)
SLEEVE FOR UTILITIES W/EXTENSION
SERVICE BOX AND CURB STOP ⓔ
REV. 206+42 RT

NEW 1" x 161' SEAMLESS
COPPER WATER TUBE

SCALE 10 FEET

FROM STA. 206+49.72 TO STA. 207+35.50
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 112 OF 243 SHEETS



See Standard B.5 for details

10" Grubbing Material

Rock Fill Encountered in Project

Rev 208+00 Lt.
Begin Grubbing Material

Rev 207+80 - 207+82 Lt.
*30" RCP (MOD) (Bankside at the end of existing bridge)
(REFER TO DETAIL ON SHT #183 OF PLANS)

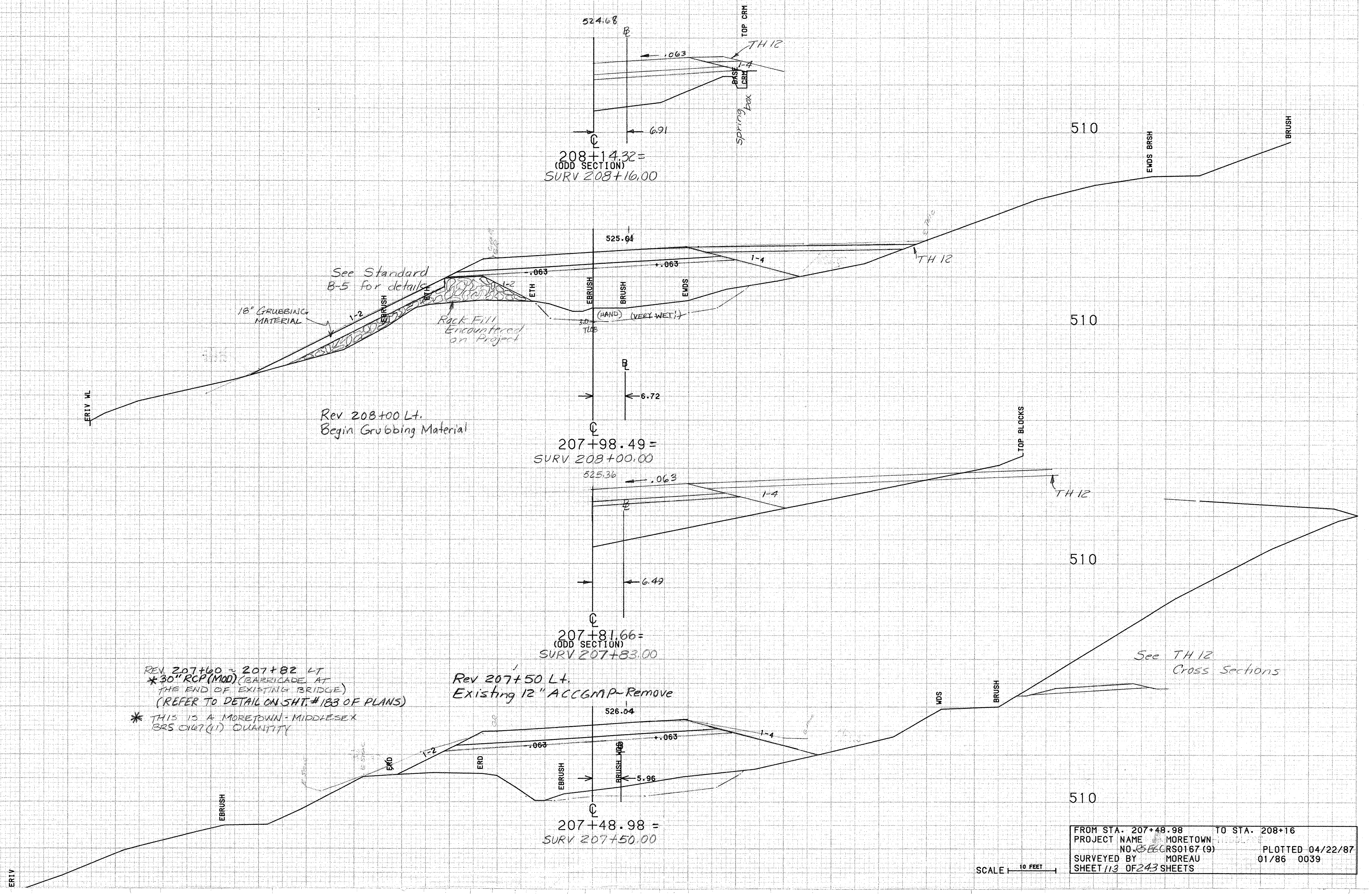
* THIS IS A MAXIMUM ALLOWABLE FOR CONTRACT QUANTITY

Rev 207+50 Lt.
Existing 12" ACCGMP - Remove

See THR Cross Sections

UNDERCUT BUTT @ 207+25
FIELD MEASURED END AREA OF 90 STW 11/7/00
30X3

FROM STA. 207+48.98 TO STA. 208+16
PROJECT NAME MORETOWN
NO. RS0187(9)
PLOTTED 04/22/97
SURVEYED BY MOREAU
01/88 0039
SHEET 113 OF 243 SHEETS



See Standard B-5 for details

Rev 208+00 Lt.
Begin Grubbing Material

See TH 12 Cross Sections

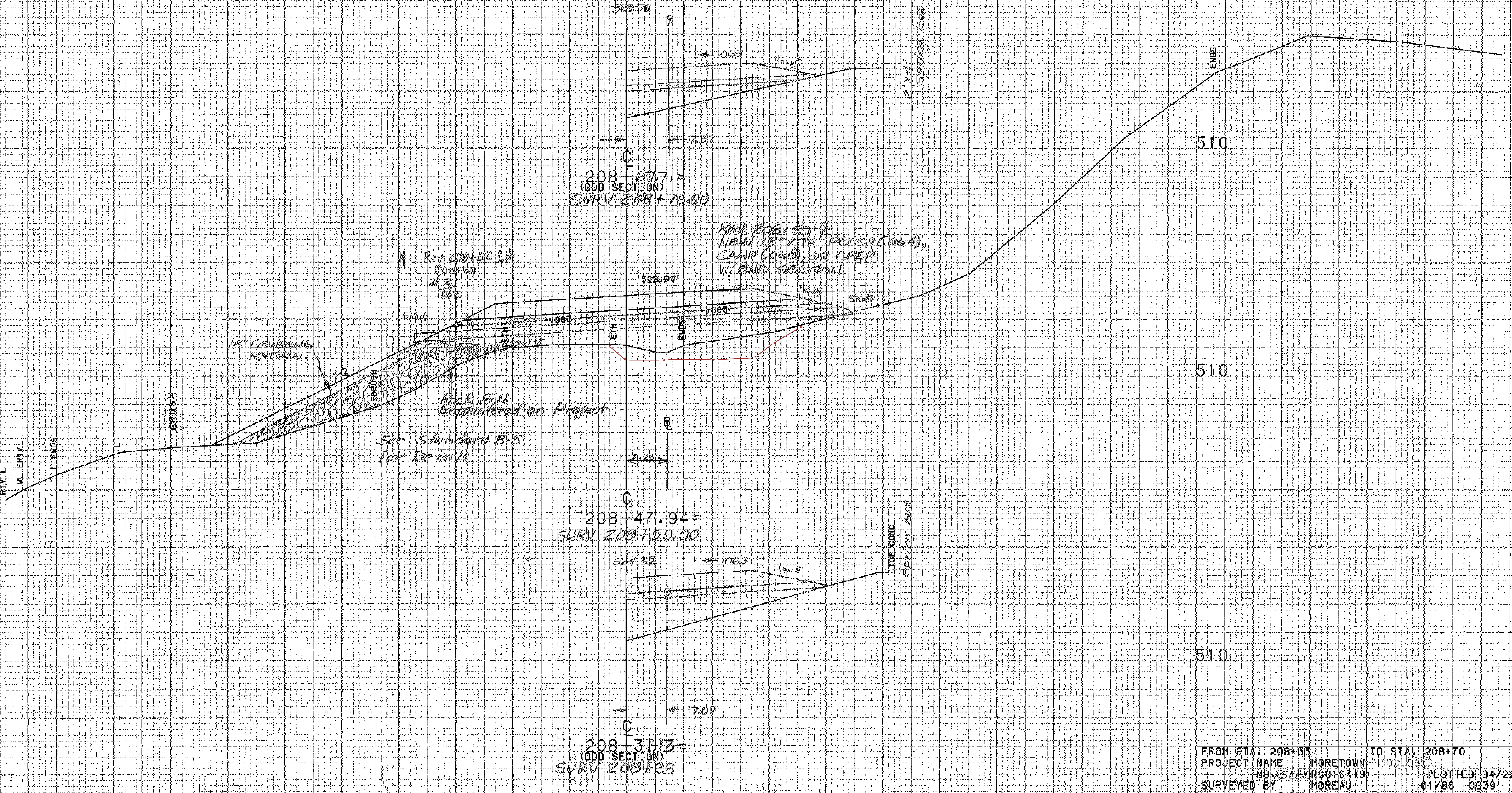
Rev 207+60 ~ 207+82 LT
*30" RCP (MOD) (BARRICADE AT THE END OF EXISTING BRIDGE)
(REFER TO DETAIL ON SHT. #183 OF PLANS)

* THIS IS A MORETOWN - MIDDLESEX BRS 0167 (11) QUANTITY

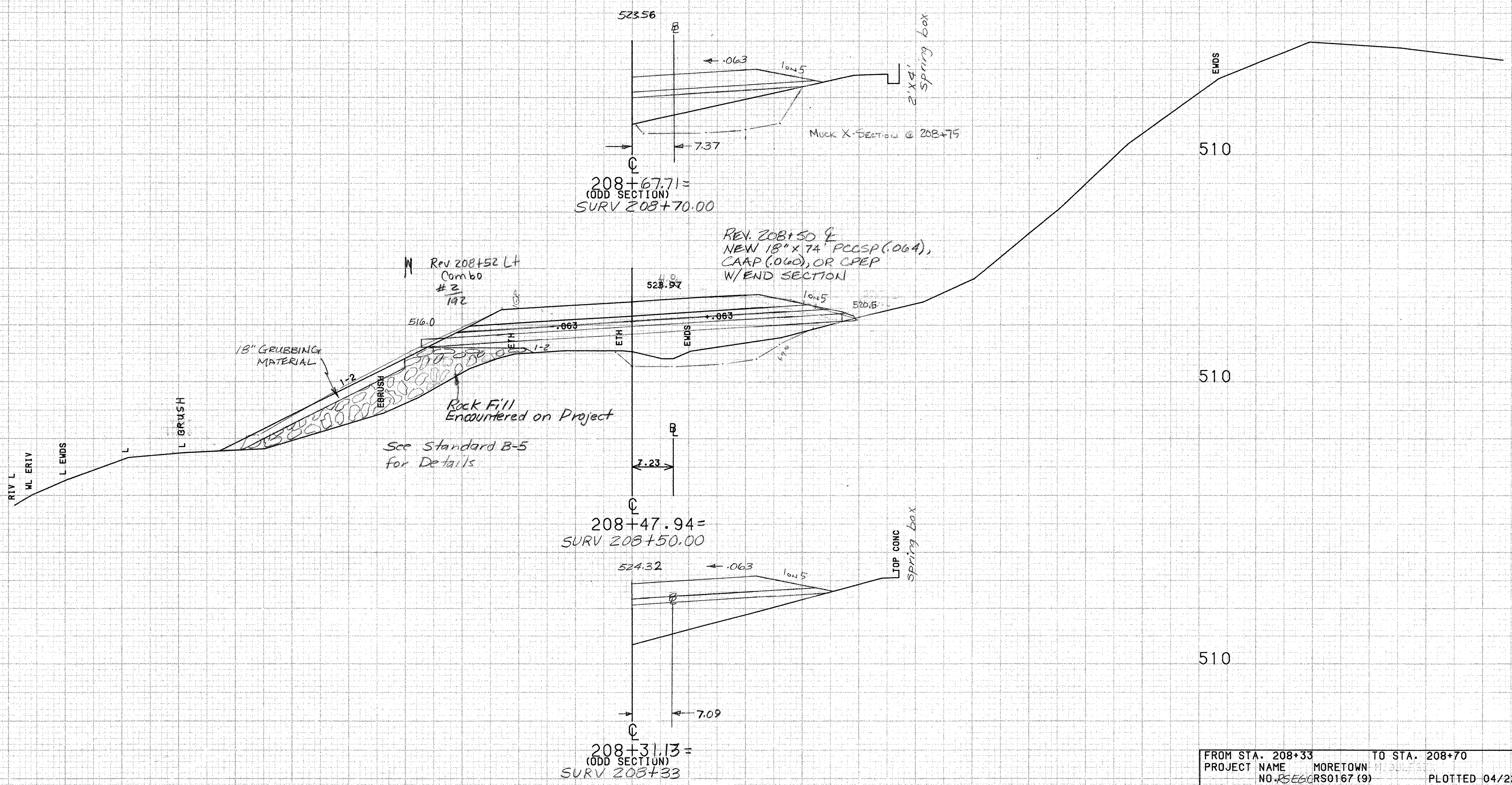
Rev 207+50 Lt.
Existing 12" ACCGMP~Remove

SCALE 10 FEET

FROM STA. 207+48.98 TO STA. 208+16
PROJECT NAME MORETOWN
NO. RS BCC RS0167 (9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 113 OF 243 SHEETS



FROM STA. 208+33 TO STA. 208+70
PROJECT NAME MORETOWN-[illegible]
NO. ~~[illegible]~~ RS0167(9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET ~~[illegible]~~ OF [illegible] SHEETS



SCALE 10 FEET

FROM STA. 208+33 TO STA. 208+70
PROJECT NAME MORETOWN
NO. RSEGC RS0167 (9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 114 OF 243 SHEETS

FROM STA. 208+97.36 TO STA. 209+78.40
PROJECT NAME MORETOWN
NO. BRS0167(9)
SURVEYED BY MOREAU
SHEET 45 OF 243 SHEETS
PLOTTED 04/22/87
01/86 0039
SCALE 10 FEET

Rev 210+53 Rt.
End Alum. Appr. Rail (Mod#1)(25')
Begin Bridge Rail

REV 210+28 RT ~
REV. 210+53 RT.
Aluminum Appr. Rail (Mod#1)(25')

THZ 30+73Lt ~ Rev 210+28 Rt.
Aluminum Appr
Rail (Mod#2)(75')

Rev.
210+54.07 Lt.
End Roadway
Begin Bridge

Rev
210+06 Lt.
End Aluminum
Approach Rail (Mod#1)(25')
Begin Bridge Rail

Rev 209+81Lt.
End Steel Beam
Guard Rail - Begin
Alum. Appr. Rail
(Mod#1)(25')
Rev 209+8136=
THZ 29+92.68
Δ 90° Rt

Guard Rail Terminal Detail

Scale in Feet

GMP #3
NET #191

209+79

= TH#2 Sta 30+25

Rock Fill
Encountered on
Project

Cut to Fill

209+78.40 =
SURV 209+82.00

REV. 209+81 LT
END STEEL BEAM GUARD RAIL
BEGIN ALUMINUM APPR. RAIL (MOD#1)(25')

℄ Ahead

REV. 209+50 RT ~ REV. 210+00 LT.
NEW 18" x 76' PCCSP (.064), CPEP (SL),
CAAP (.060)

18" GRUBBING
MATERIAL

ROCK FILL
ENCOUNTERED
ON PROJECT

Cut to Fill Transition
209+46.77 to 210+21

Area Used as Temporary Detour Around
Bridge Construction

Removed as
Part of Designed Undercut and Cut to Fill Transition

Rev 209+25 ~ 210+25
Drilling and Blasting
of Solid Rock Subgrade
(Paid as a Moretown-
Middlesex BRS 0167(11)
Quantity)

Rev 209+50 Lt.
End Grubbing Material

209+46.77 =
SURV 209+50.00

18" GRUBBING
MATERIAL

ROCK FILL
ENCOUNTERED
ON PROJECT

SEE STANDARD B-5
FOR DETAILS

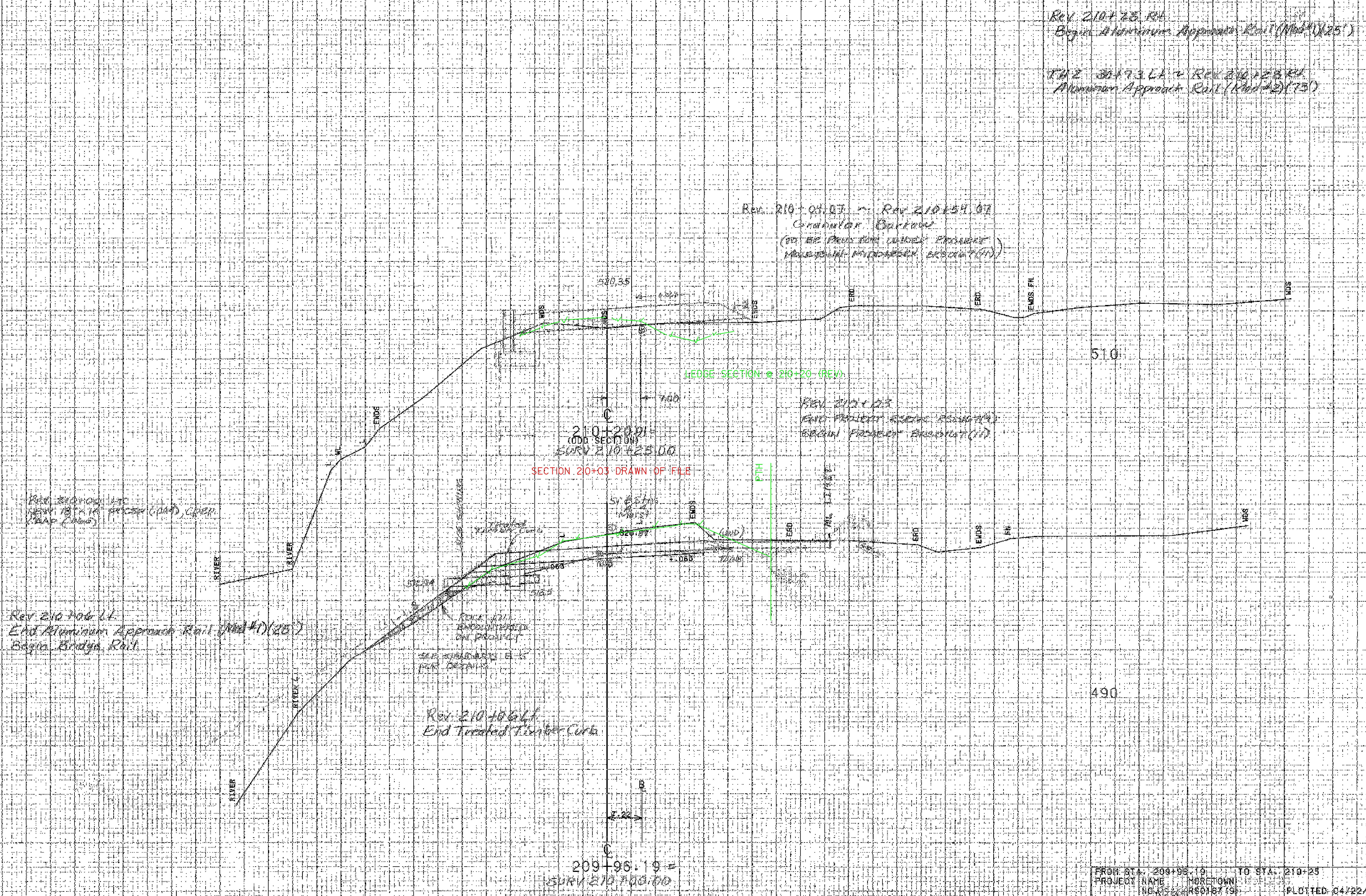
208+97.36 =
SURV 209+00.00

** NOTE :

THE ALUMINUM APPR. RAIL (MOD#1) AND ALUM. APPR. RAIL (MOD#2) SHOWN ON THIS DETAIL WILL BE PAID FOR UNDER PROJECT
MORETOWN STP EGC - RSEGC RS 0167 (9)

SCALE 10 FEET

FROM STA. 208+97.36		TO STA. 209+78.40	
PROJECT NAME	MORETOWN		
NO. RSEGC	RS0167 (9)		PLOTTED 04/22/87
SURVEYED BY	MOREAU		01/86 0039
SHEET 115 OF 243 SHEETS			

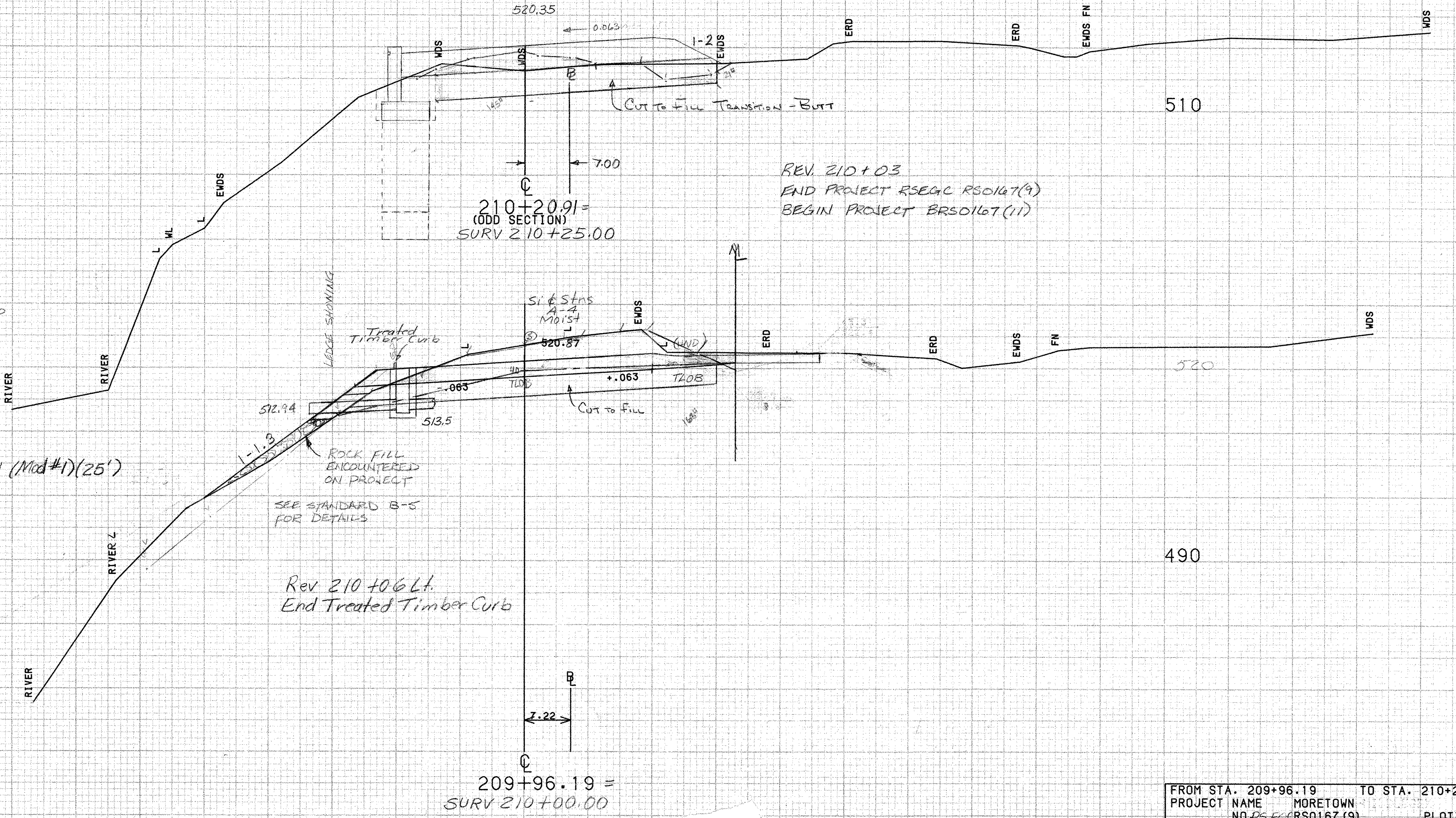


FROM STA. 209+96.19 TO STA. 210+25
PROJECT NAME MORETOWN
NO. RS0167(9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET OF SHEETS

Rev 210+28 Rt
Begin Aluminum Approach Rail (Mod #1)(25')

TH2 30+73 Lt ~ Rev 210+28 Rt.
Aluminum Approach Rail (Mod #2)(75')

Rev. 210+04.07 ~ Rev 210+54.07
Granular Borrow
(TO BE PAID FOR UNDER PROJECT
MORETOWN-MIDDLESEX BRS0167(11))



210+20.91=
(ODD SECTION)
SURV 210+25.00

REV. 210+03
END PROJECT RSEGC RS0167(9)
BEGIN PROJECT BRS0167(11)

REV. 210+00 LT.
NEW 18"x14' PCCSP (.064), CPEP
CAAP (.060)

Rev 210+06 Lt.
End Aluminum Approach Rail (Mod #1)(25')
Begin Bridge Rail

ROCK FILL
ENCOUNTERED
ON PROJECT

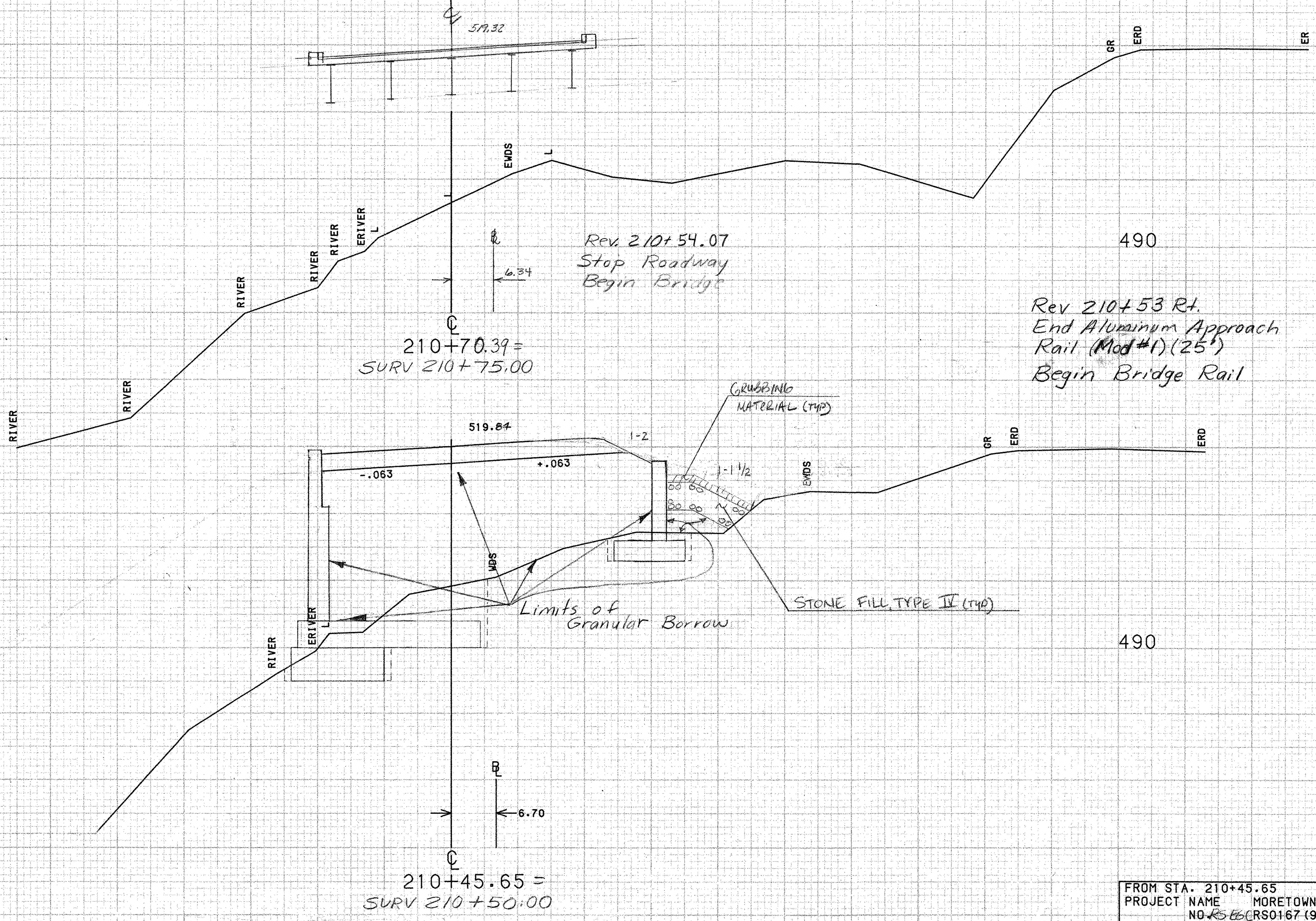
SEE STANDARD B-5
FOR DETAILS

Rev 210+06 Lt.
End Treated Timber Curb

209+96.19 =
SURV 210+00.00

SCALE 10 FEET

FROM STA. 209+96.19 TO STA. 210+25
PROJECT NAME MORETOWN
NO RSEGC RS0167(9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 116 OF 243 SHEETS



Rev. 210+54.07
Stop Roadway
Begin Bridge

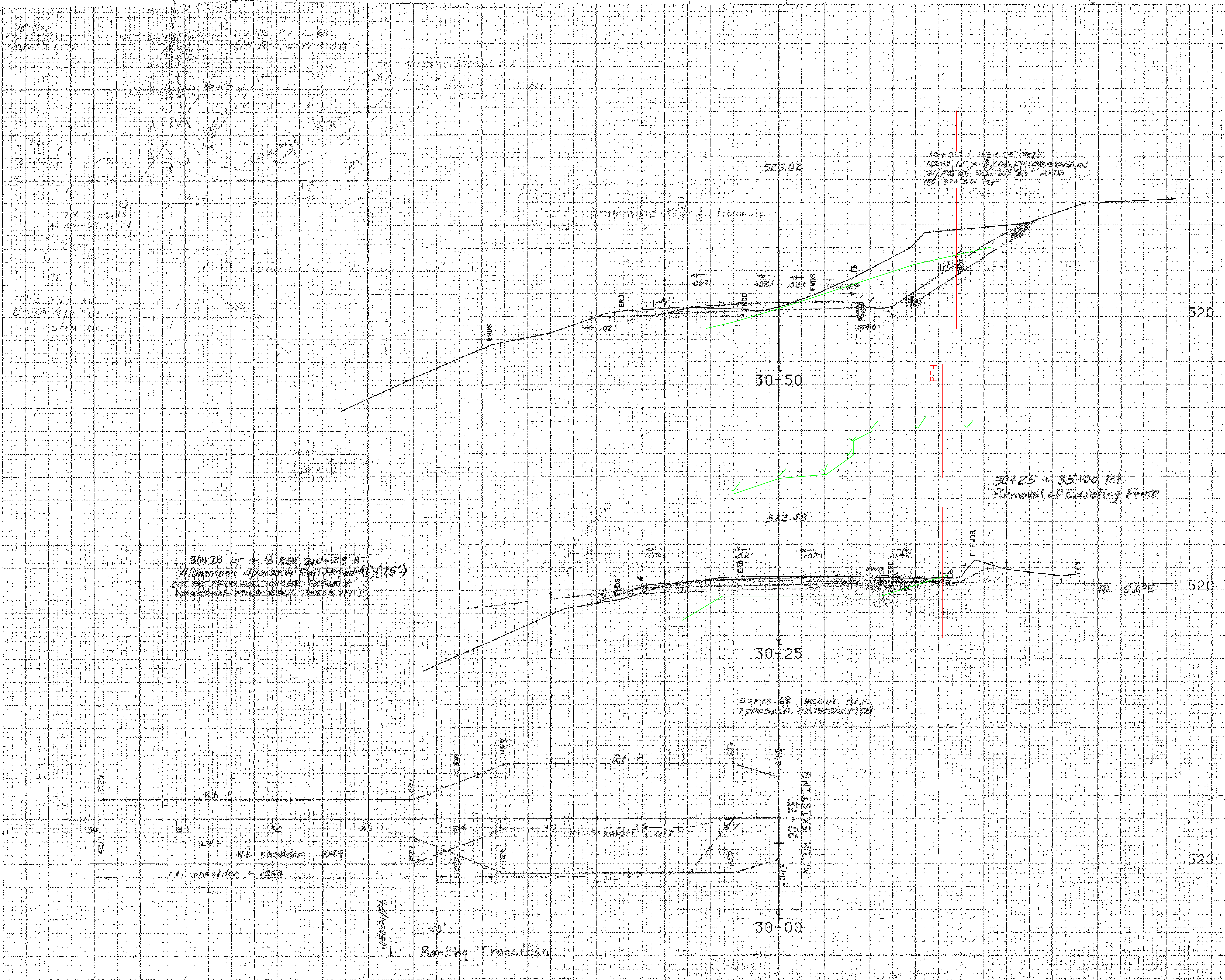
Rev 210+53 Rt.
End Aluminum Approach
Rail (Mod#1) (25')
Begin Bridge Rail

Limits of
Granular Borrow

STONE FILL, TYPE IV (TYP)

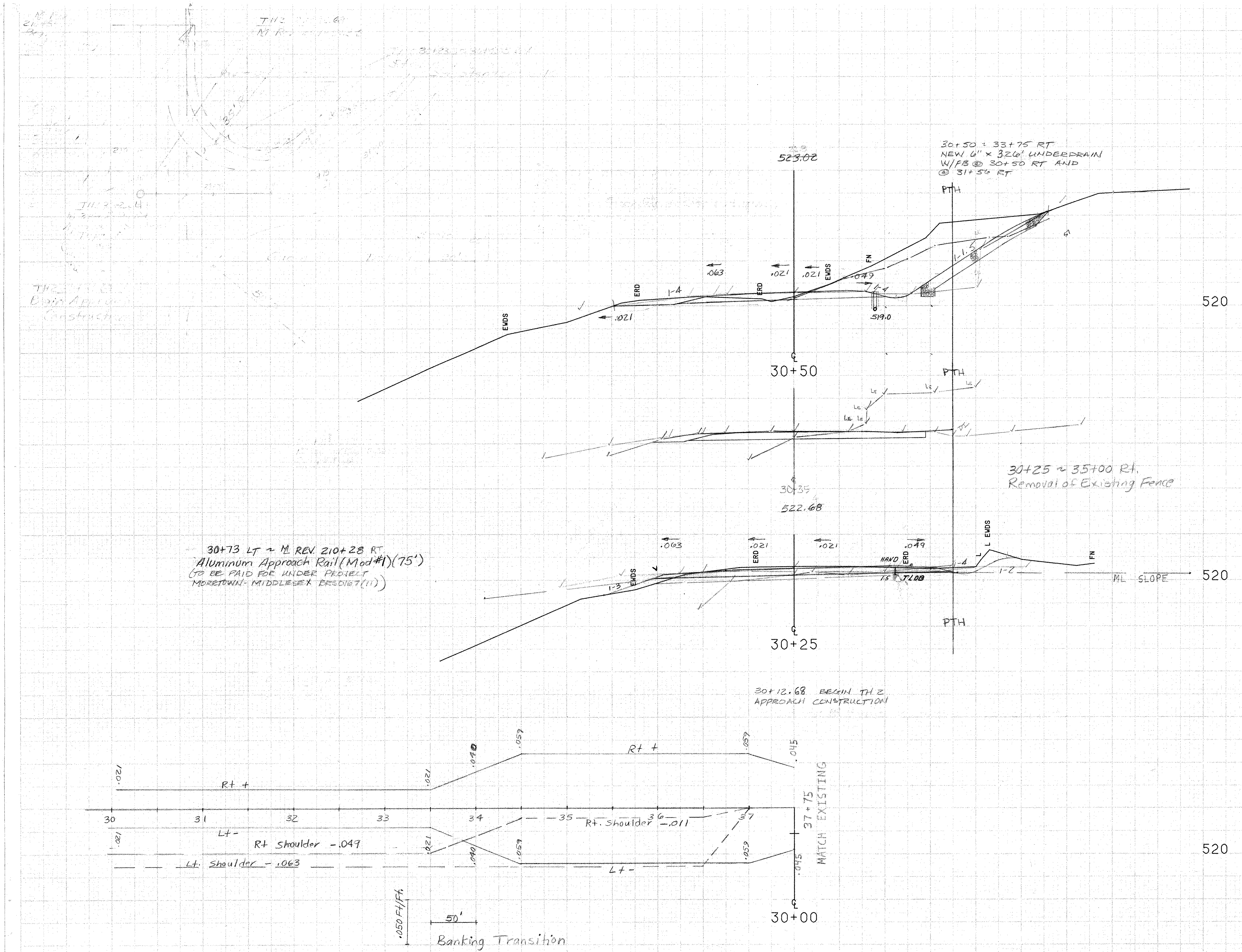
SCALE 10 FEET

FROM STA. 210+45.65 TO STA. 210+75
PROJECT NAME MORETOWN
NO RS 66(RS0167 (9) PLOTTED 04/22/87
SURVEYED BY MOREAU 01/86 0039
SHEET 117 OF 243 SHEETS



SCALE 10 FEET

FROM STA. 30+00 TO STA. 30+50
PROJECT NAME MORETOWN TH2
NO. RS0167(9) PLOTTED 08/09/86
SURVEYED BY NYE JAN 1985
SHEET 18 OF 242 SHEETS



30+50 ~ 33+75 RT
NEW 6" × 326' UNDERDRAIN
W/FB @ 30+50 RT AND
@ 31+56 RT

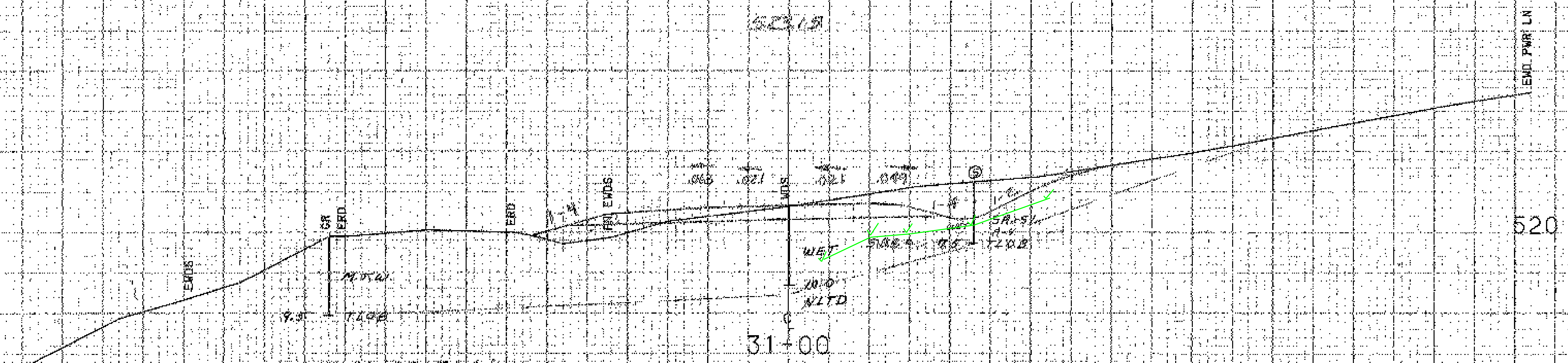
30+25 ~ 35+00 Rt.
Removal of Existing Fence

30+73 LT ~ ML REV. 210+28 RT
Aluminum Approach Rail (Mod #1) (75')
(TO BE PAID FOR UNDER PROJECT
MORETOWN- MIDDLESEX BRS0167(11))

30+12.68 BEGIN TH 2
APPROACH CONSTRUCTION

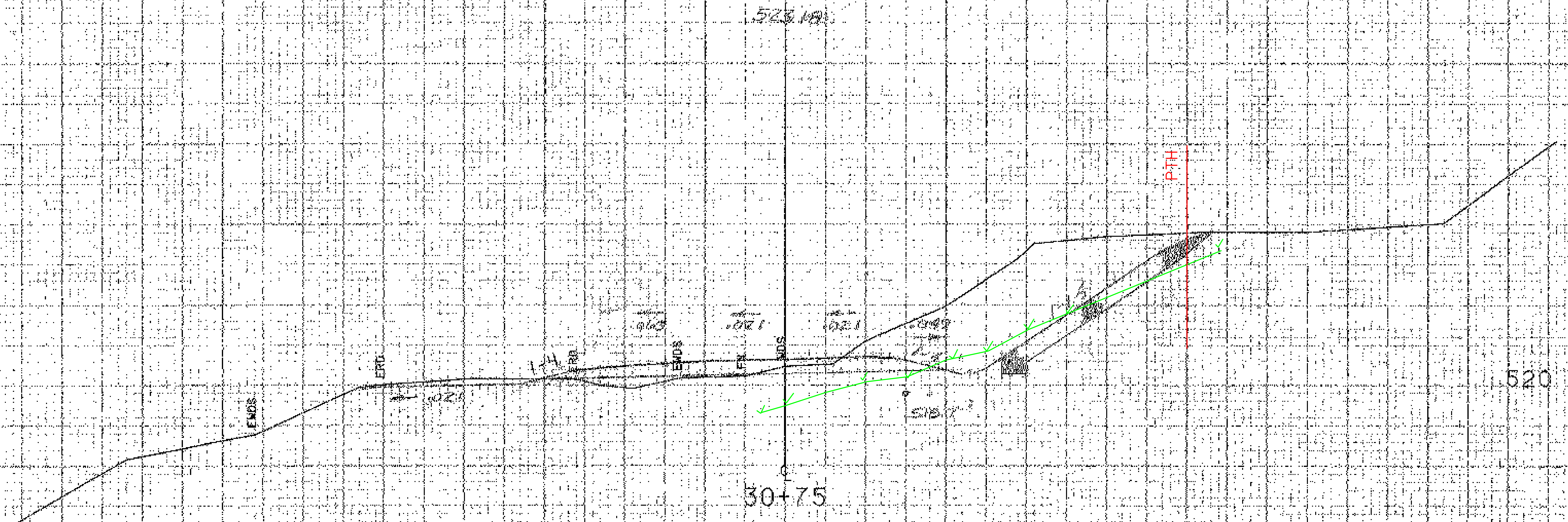
SCALE 10 FEET

FROM STA. 30+00 TO STA. 30+50
PROJECT NAME MORETOWN TH2
NO. RS E6(RS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 118 OF 243 SHEETS



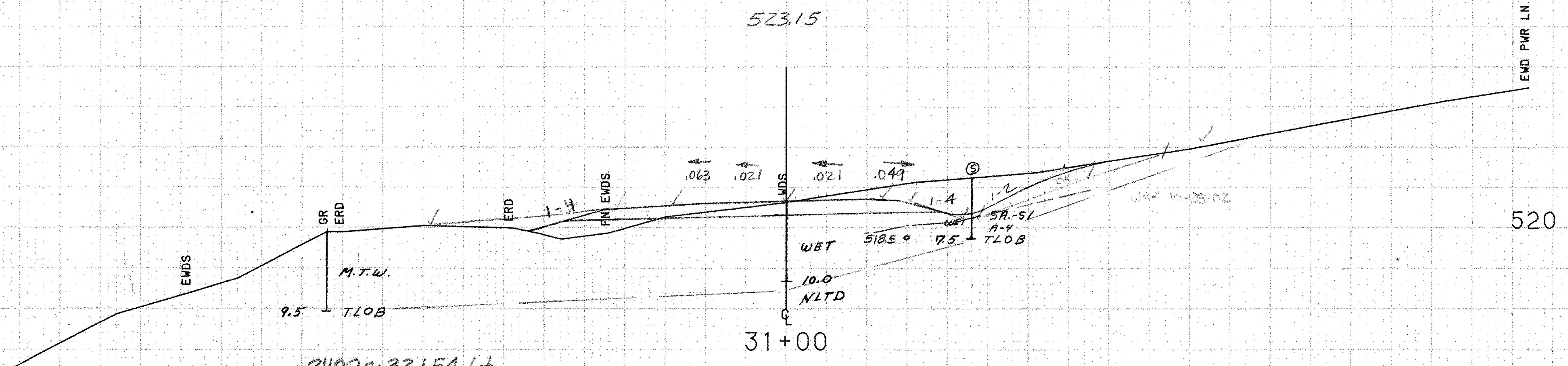
3100 ~ 32+54 Lt.
Removal and Disposal
of Guard Rail

30+75 LT.
BEGIN EXCAVATION OF
SURFACES AND PAVEMENTS
(AREA TO BE TOPSOILED,
SEEDED, AND MULCHED)



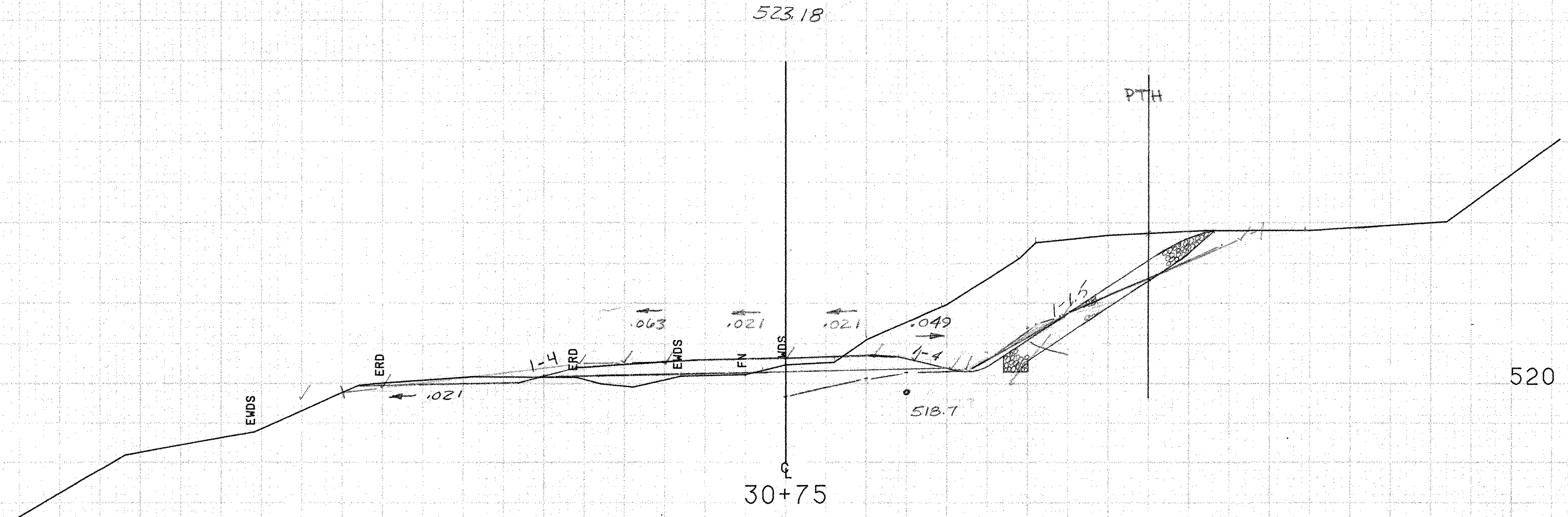
SCALE ⊢ 10 FEET ⊣

FROM STA. 30+75 TO STA. 31+00
PROJECT NAME MORETOWN TH2
NO. RS0167(19) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 1/2 OF 243 SHEETS



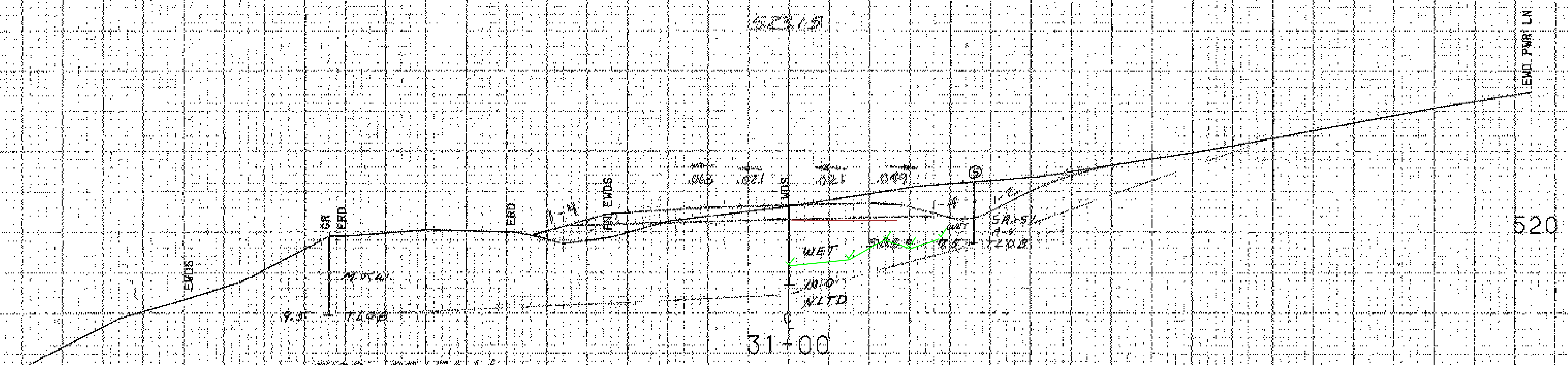
3400 ~ 32+54 Lt.
Removal and Disposal
of Guard Rail

30+75 LT
BEGIN EXCAVATION OF
SURFACES AND PAVEMENTS
(AREA TO BE TOPSOILED,
SEEDED, AND MULCHED)



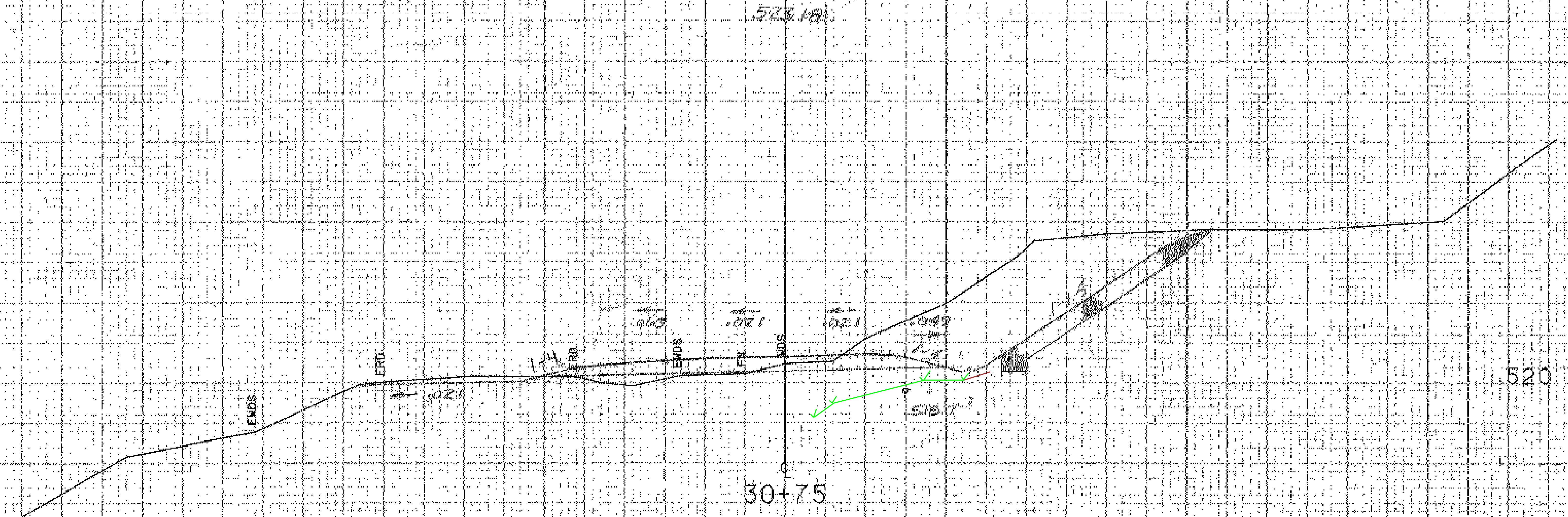
SCALE 10 FEET

FROM STA. 30+75 TO STA. 31+00
PROJECT NAME MORETOWN TH2
NO. RS EG(RS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 119 OF 243 SHEETS



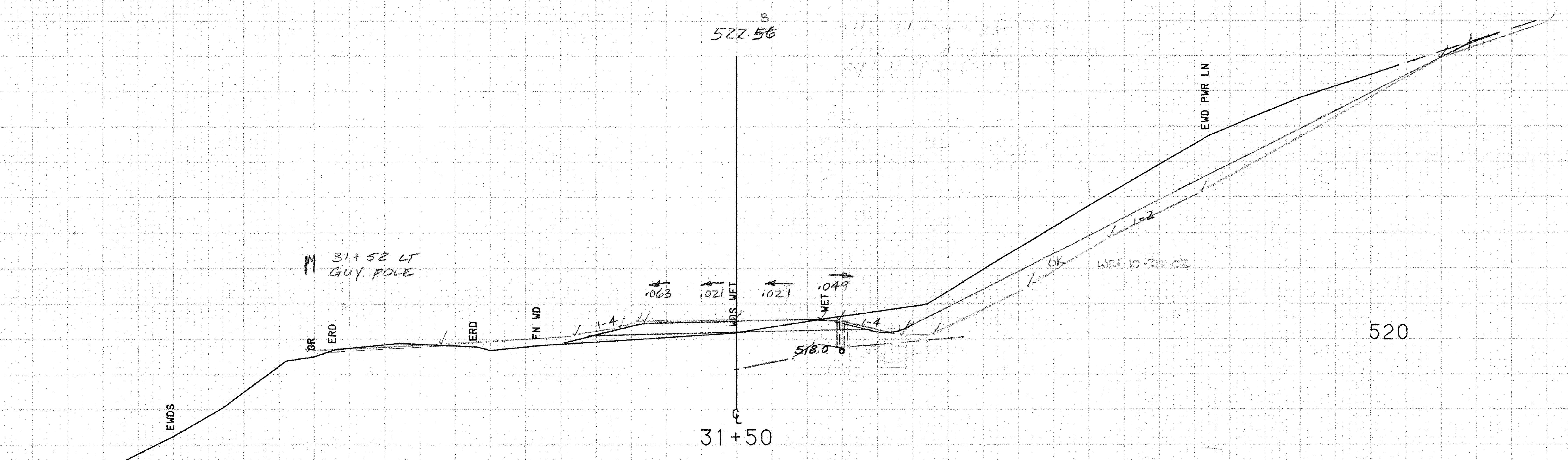
3100 – 32+54 Lt.
Removal and Disposal
of Guard Rail

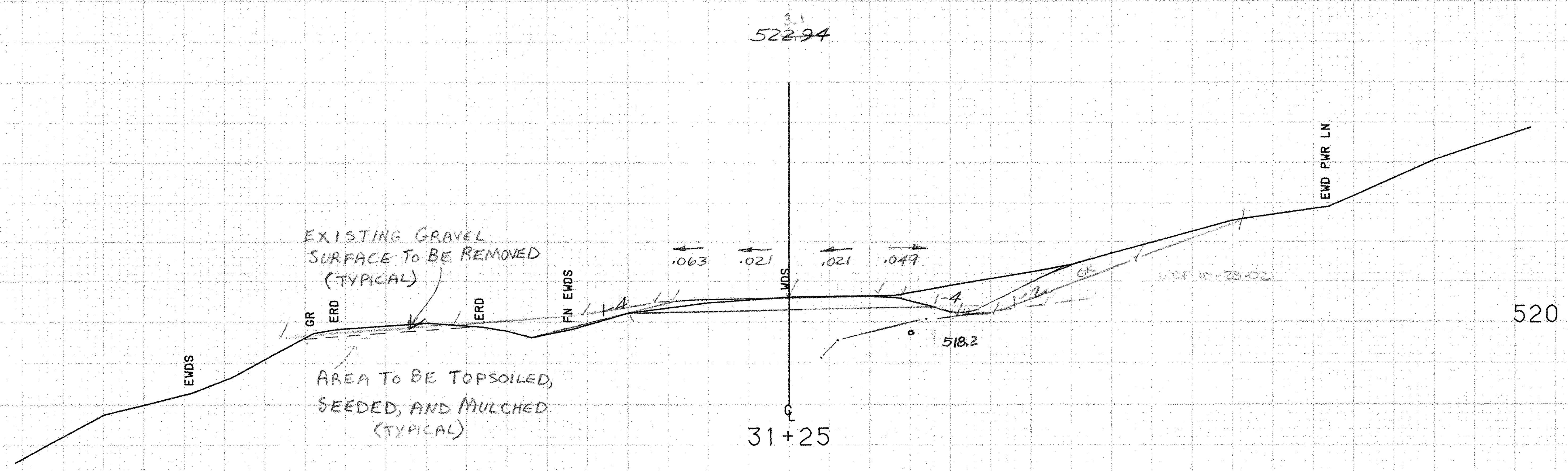
30+75 Lt.
BEGIN EXCAVATION OF
SURFACES AND PAVEMENTS
(AREA TO BE TOPSOILED,
SEEDED, AND MULCHED)



FROM STA. 30+75		TO STA.	31+00
PROJECT NAME	MORETOWN		TH2
NO.	RS0167(9)	PLOTTED	06/09/86
SURVEYED BY	NYE	JAN 1985	
SHEET 118 OF 243 SHEETS			

SCALE 10 FEET



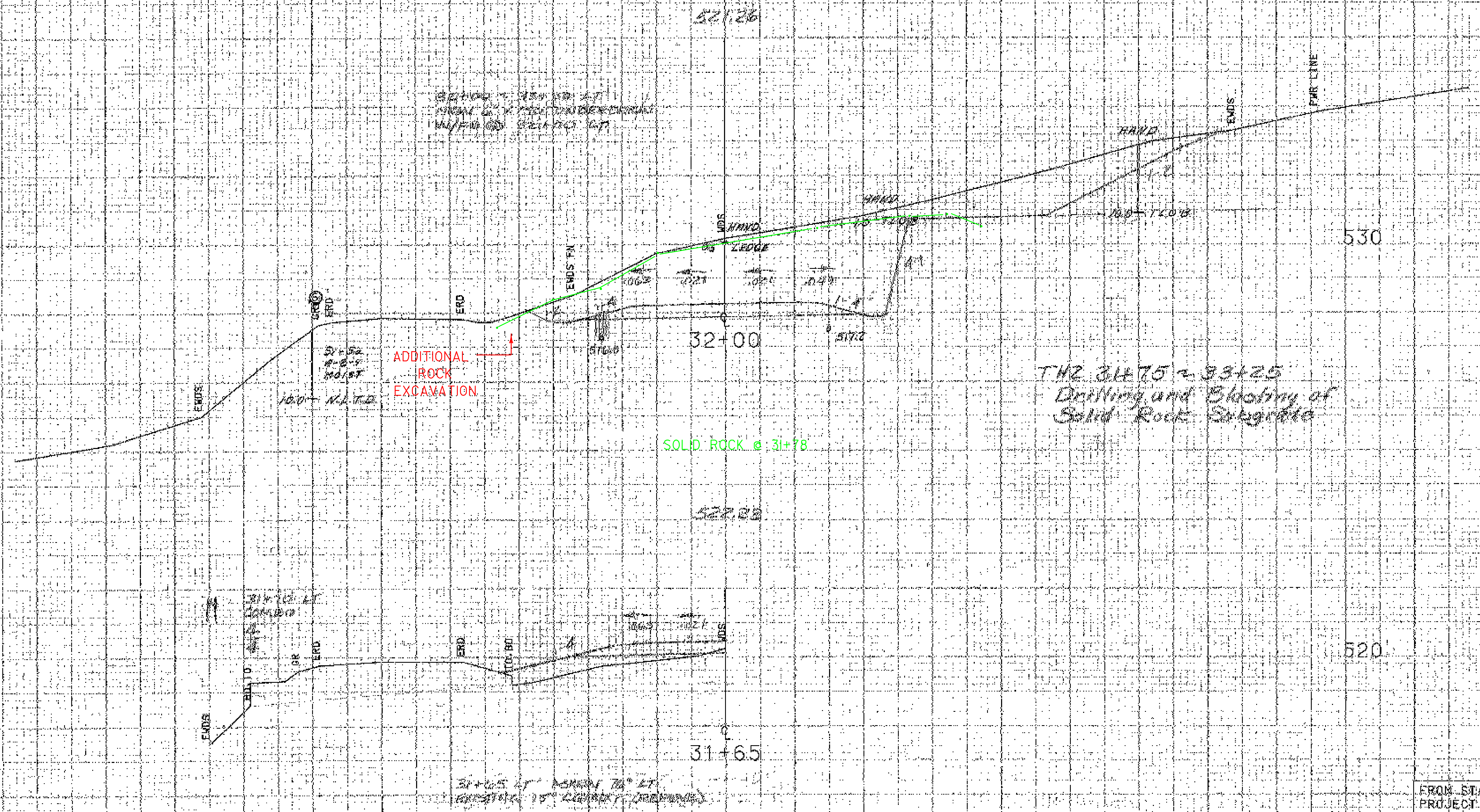


EXISTING GRAVEL SURFACE TO BE REMOVED (TYPICAL)

AREA TO BE TOPSOILED, SEEDED, AND MULCHED (TYPICAL)

SCALE 10 FEET

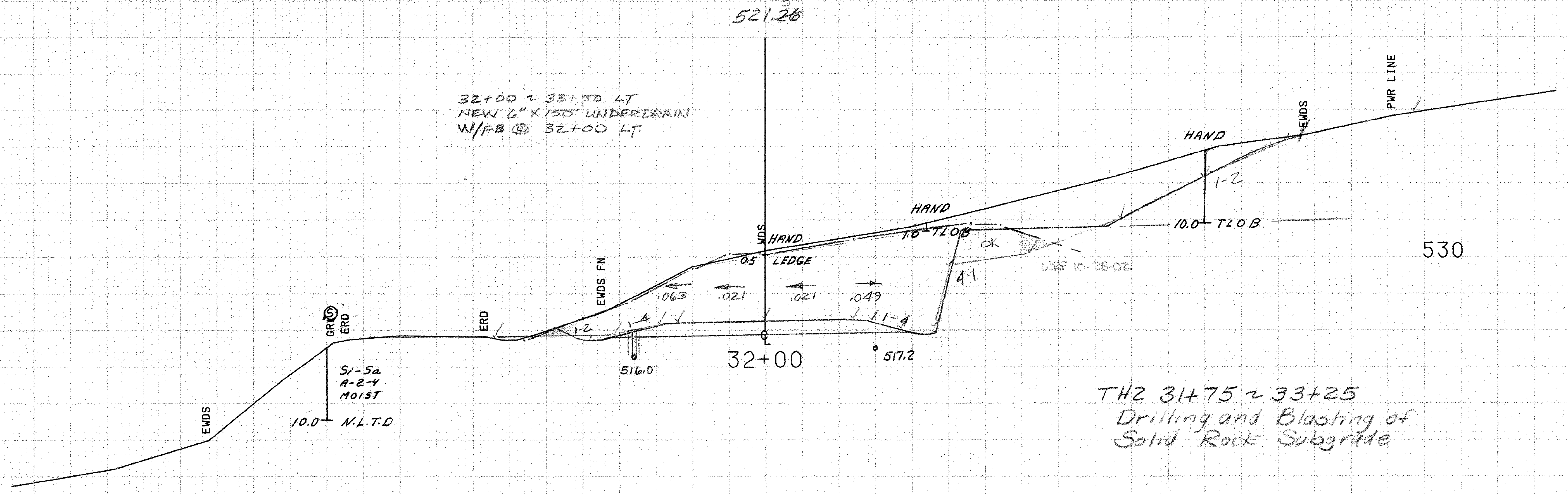
FROM STA. 31+25 TO STA. 31+50
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EGC RS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 120 OF 243 SHEETS



SCALE 10 FEET

FROM STA. 31+65 TO STA. 32+00
PROJECT NAME MORETOWN TH2
NO. CRS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET OF SHEETS

32+00 ~ 33+50 LT
NEW 6" X 150' UNDERDRAIN
W/FB @ 32+00 LT.



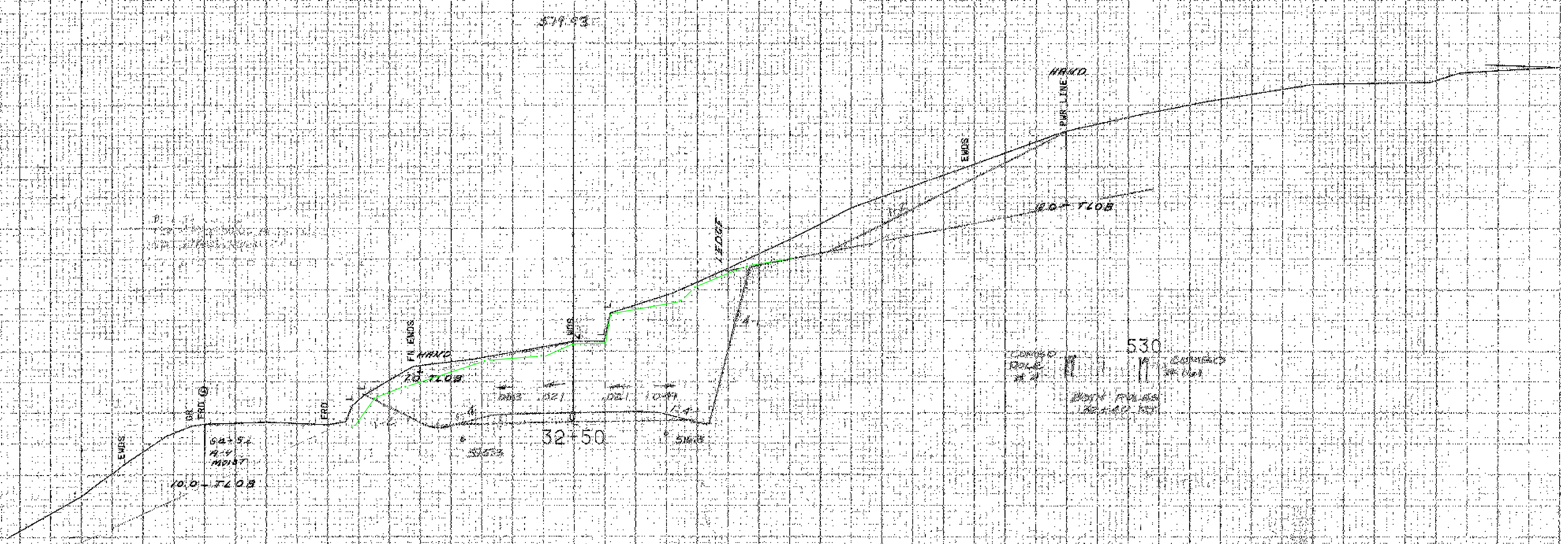
THZ 31+75 ~ 33+25
Drilling and Blasting of
Solid Rock Subgrade

M 31+70 LT
COMBO
4/4

31+65 LT ASKEW 76° LT
EXISTING 15" CGMP - (REMOVE)

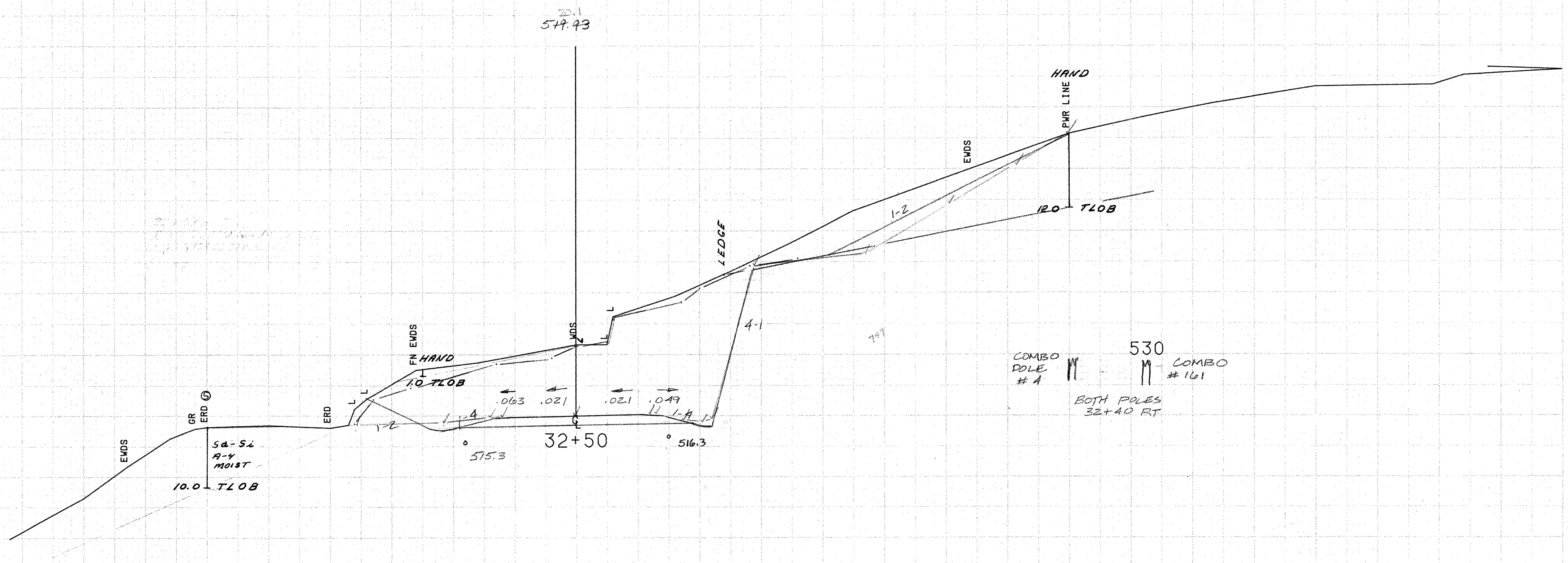
SCALE 10 FEET

FROM STA. 31+65 TO STA. 32+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RSEG(RS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 121 OF 243 SHEETS



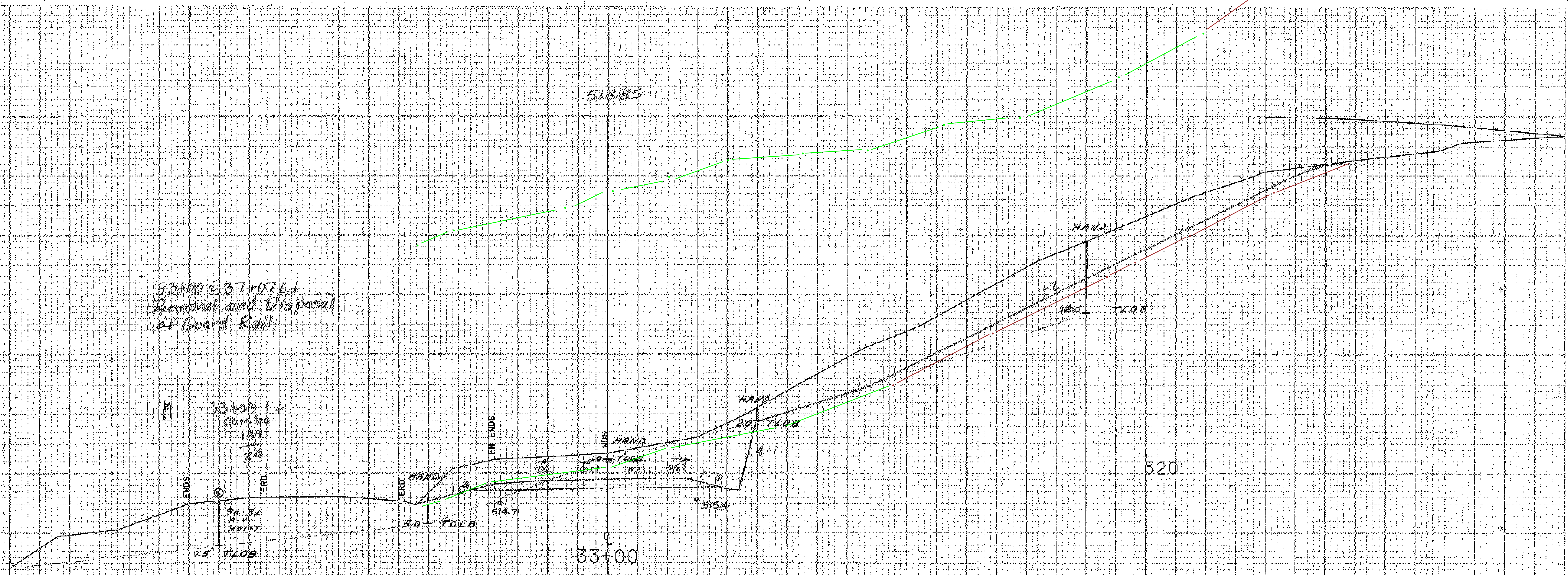
FROM STA. 32+50 TO STA. 32+50
PROJECT NAME MORETOWN MIDDLESEX TH2
NO. ER BRS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 122 OF 243 SHEETS

SCALE 10 FEET



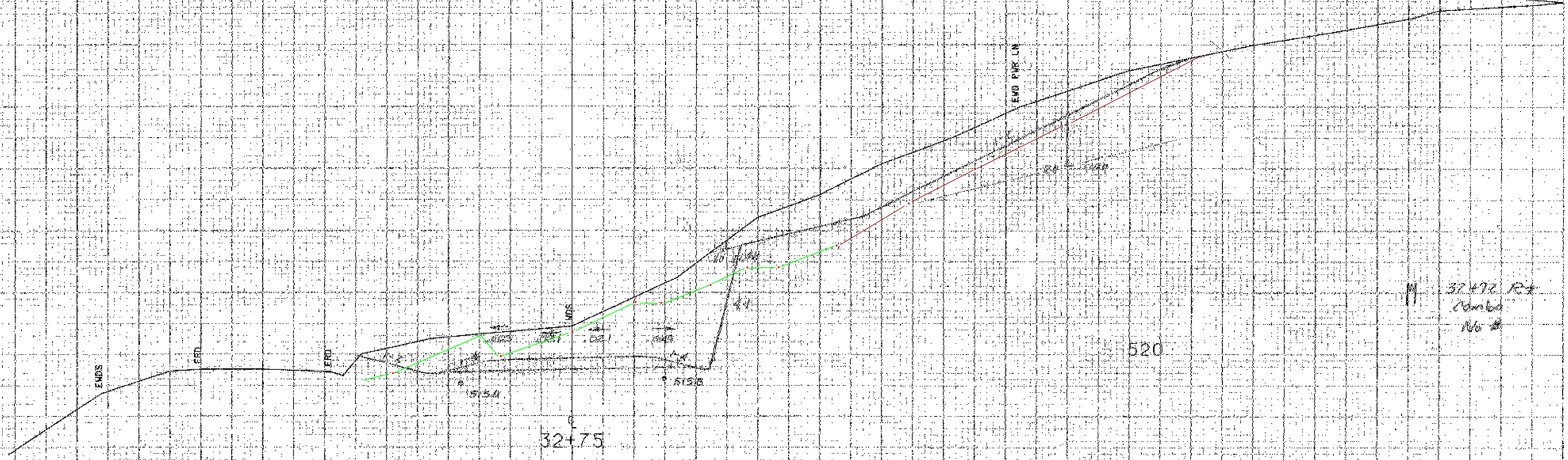
SCALE 10 FEET

FROM STA. 32+50 TO STA. 32+50
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EGC RS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 122 OF 243 SHEETS



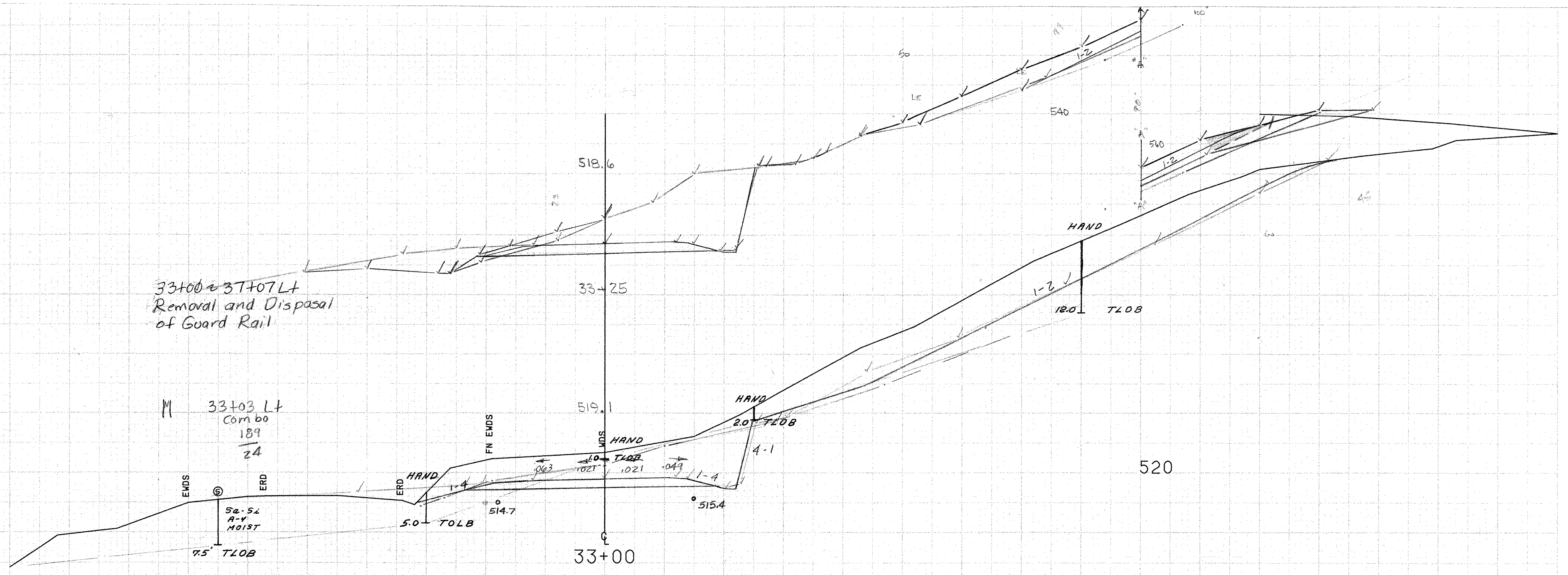
33+00 ≤ 37+07 Lt
Removal and Disposal
of Guard Rail

M 33+00 Lt
Combo
#4



M 32+72 Rt
Combo
No #

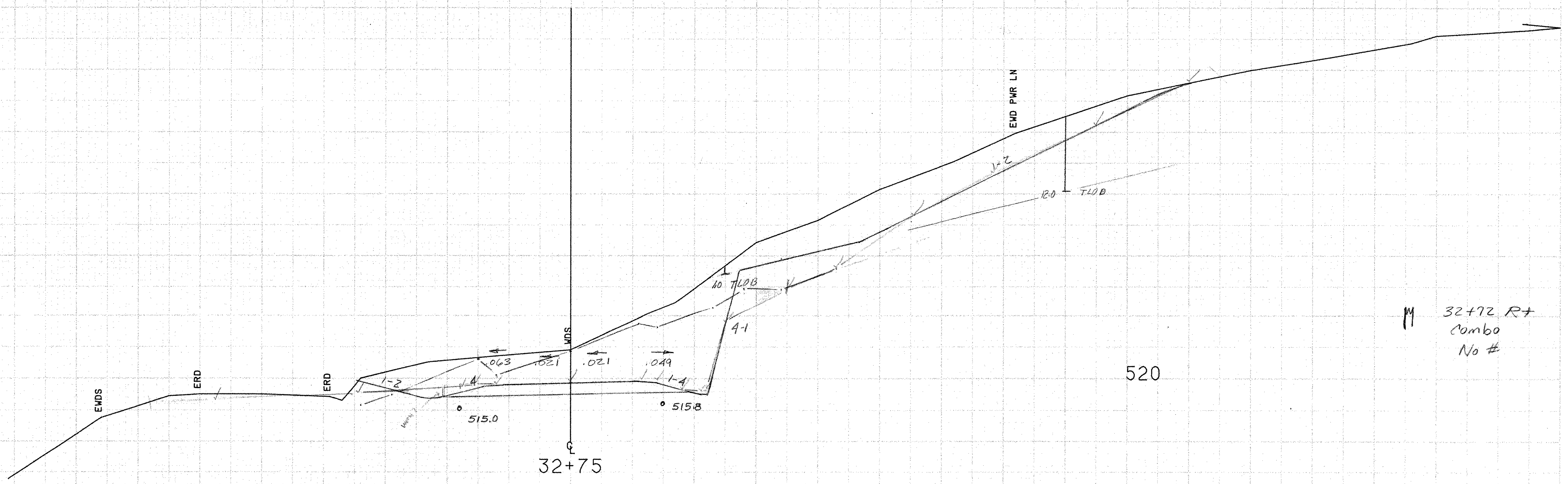
FROM STA. 32+75 TO STA. 33+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS0167 (9) PLOTTED 05/09/86
SURVEYED BY NYE JAN 1985
SHEET 223 OF 242 SHEETS
SCALE 10 FEET



33+00 – 37+07 Lt
Removal and Disposal
of Guard Rail

M 33+03 Lt
Combo
189
24

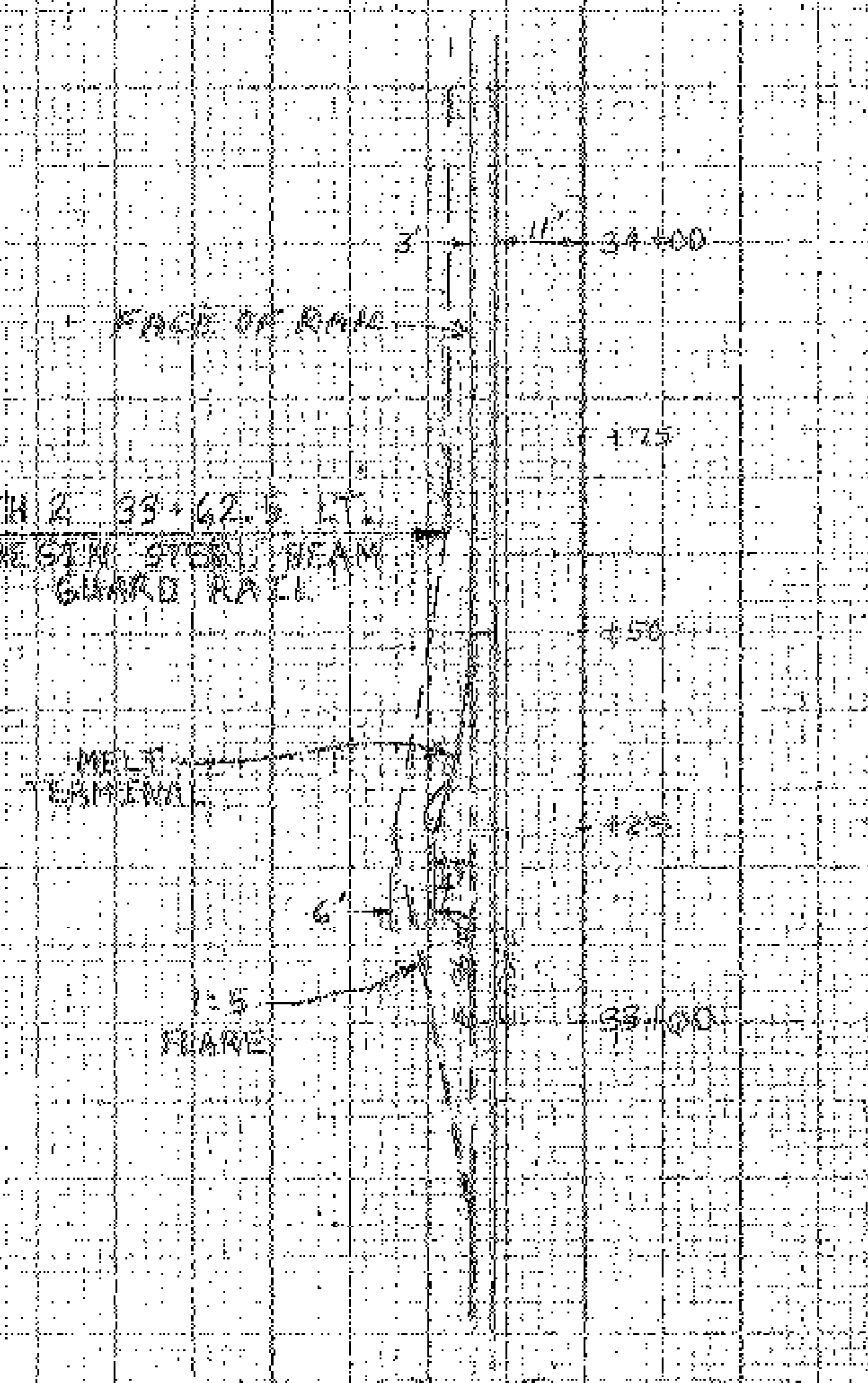
519.36



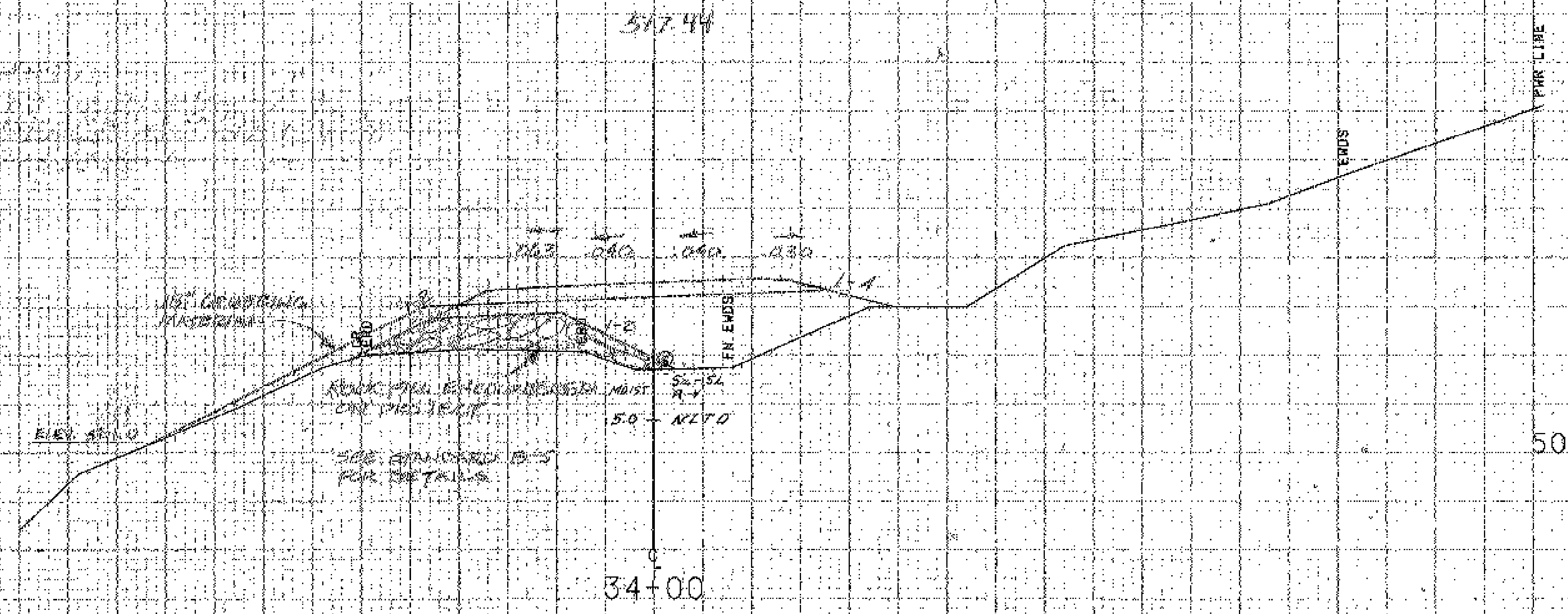
M 32+72 Rt
Combo
No #

SCALE 10 FEET

FROM STA. 32+75 TO STA. 33+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EGC RS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 123 OF 243 SHEETS



GUARD RAIL TERMINAL DETAIL



18" GRUBBING MATERIAL

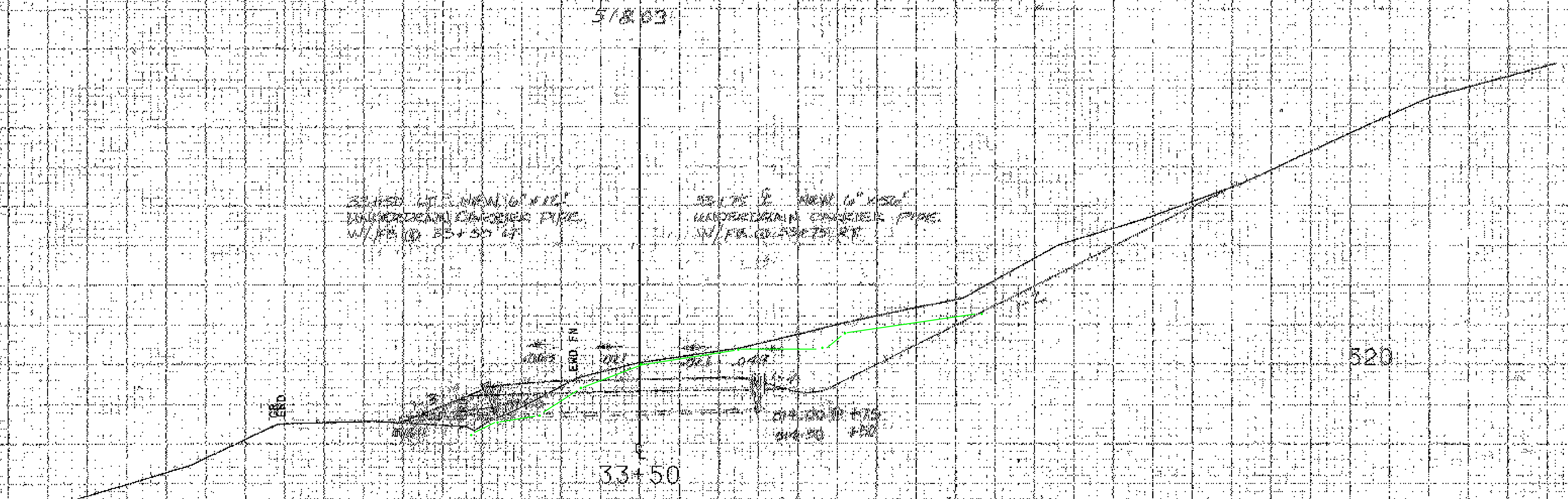
ROCK FILL EXCAVATED MAT. ON PROJECT

5.0 – NLTD

SEE STANDARD D-5 FOR DETAILS

THZ 34+00 Lt.
Begin Grubbing Material

33+75 Lt.
END EXCAVATION OF
SURFACES AND PAVEMENTS

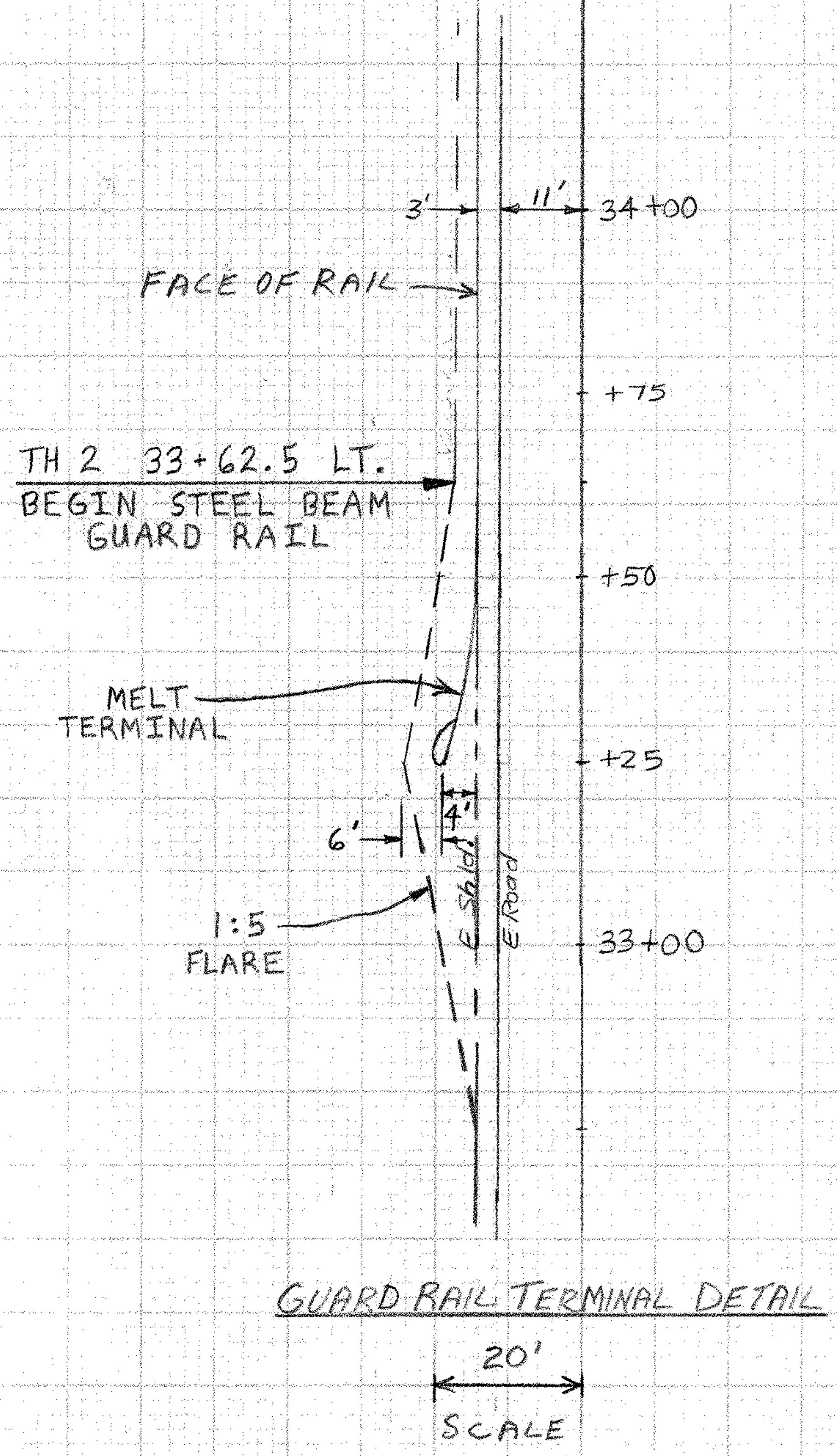


33+50 LT. NEW 6" x 12'
UNDERDRAIN CARRIER PIPE.
W/ F.E. @ 33+50 LT.

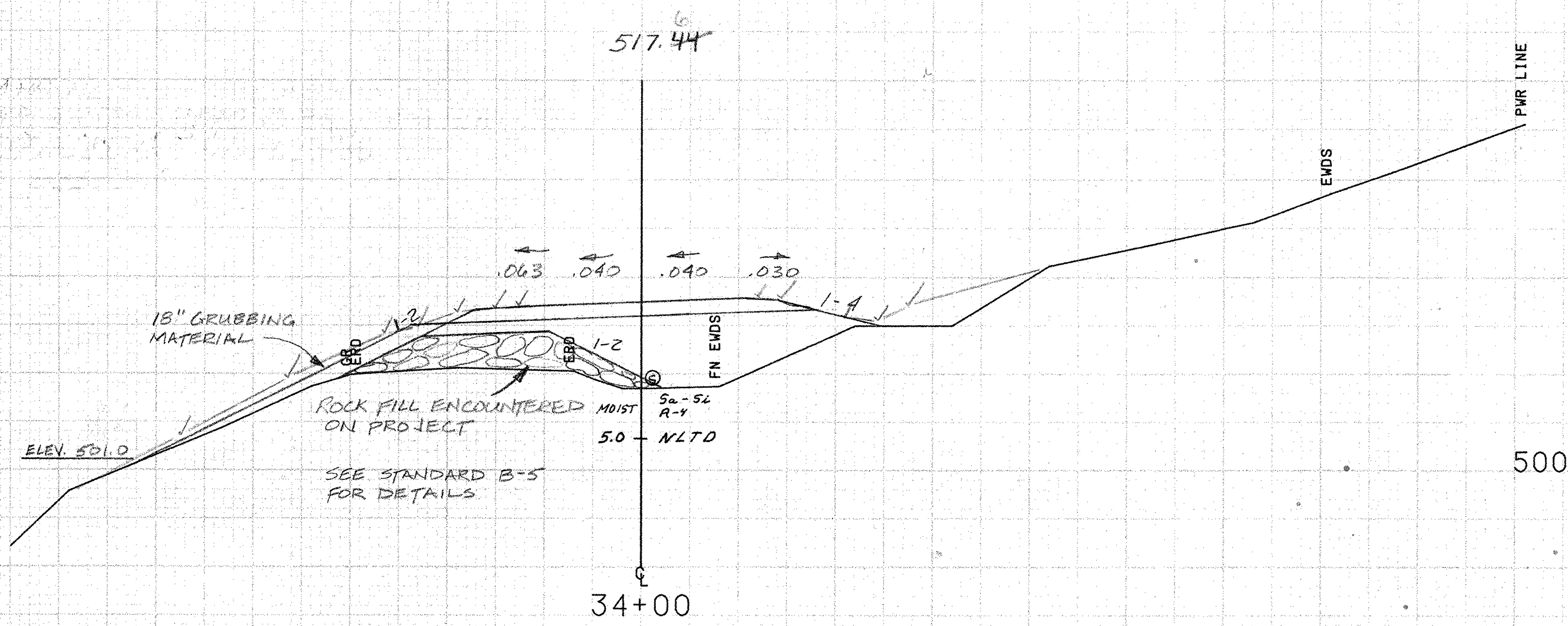
33+75 ℄ NEW 6" x 50'
UNDERDRAIN CARRIER PIPE.
W/ F.E. @ 33+75 RT.

SCALE 10 FEET

FROM STA. 33+50 TO STA. 34+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. [illegible] 0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 2[illegible] OF 2[illegible] SHEETS

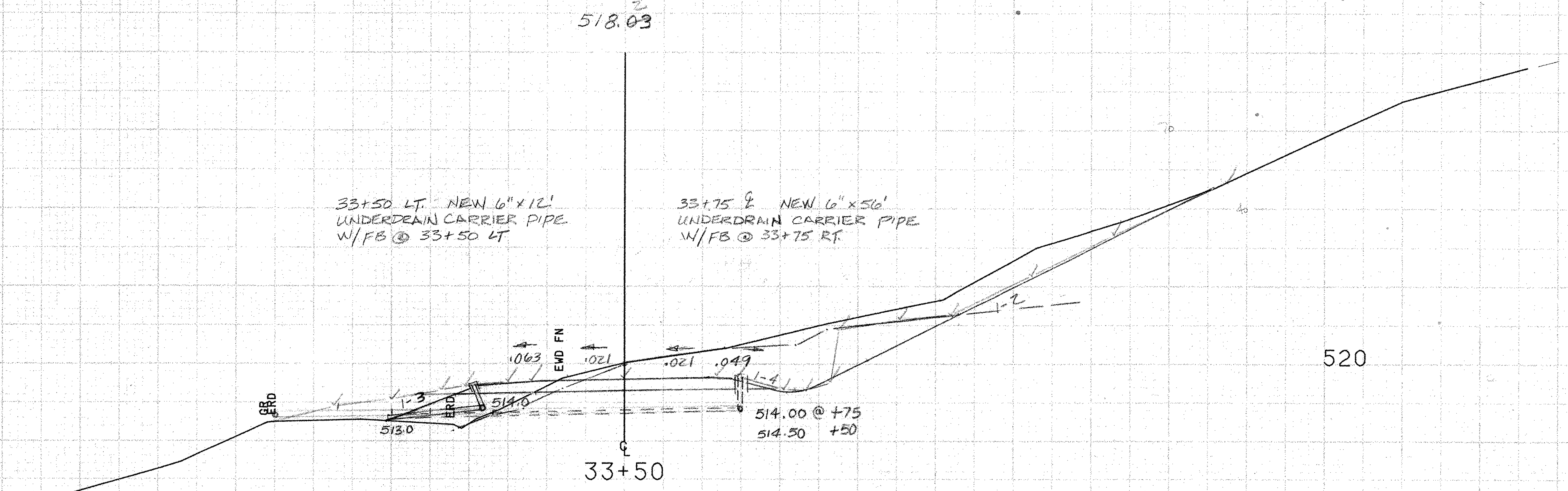


GUARD RAIL TERMINAL DETAIL



TH2 34+00 Lt.
Begin Grubbing Material

33+75 LT.
END EXCAVATION OF
SURFACES AND PAVEMENTS



SCALE 10 FEET

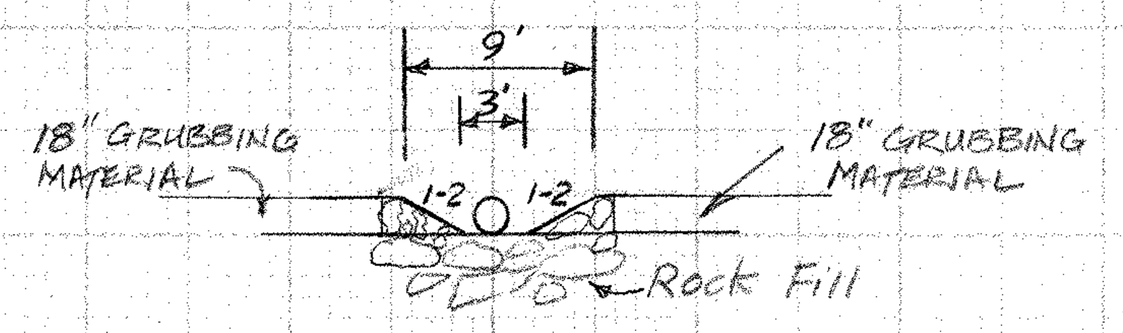
FROM STA. 33+50 TO STA. 34+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EG(RS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 124 OF 243 SHEETS

FROM STA. 34+32 TO STA. 35+00
PROJECT NAME MORETOWN MIDDLESEX TH2
NO. RS CR80167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET OF SHEETS

SCALE 10 FEET

FROM STA. 34+32 TO STA. 35+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EG CRS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 125 OF 243 SHEETS

FROM STA. 35+50 TO STA. 36+50
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS 0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 146 OF 240 SHEETS

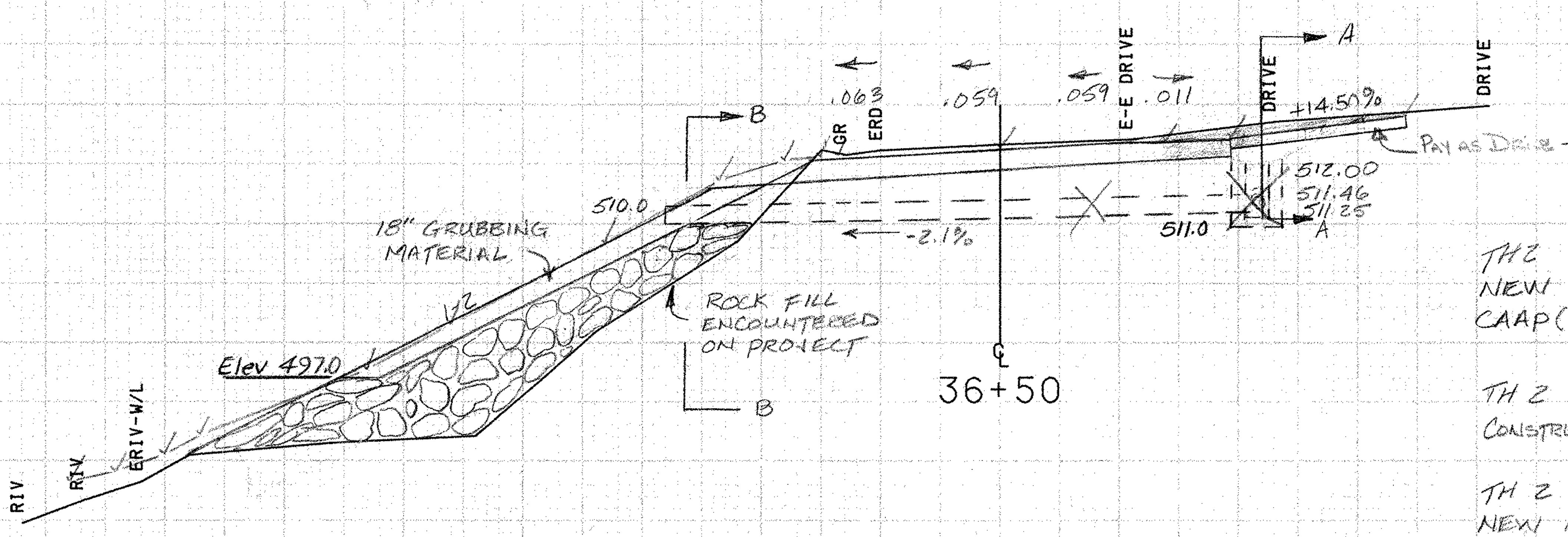


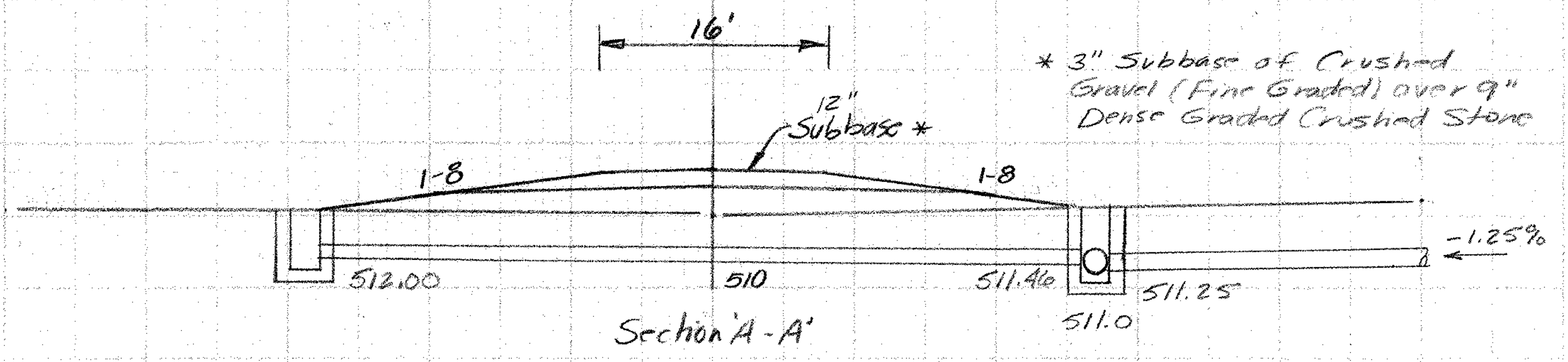
SECTION 'B-B'

NOTE: THIS DETAIL TO BE USED TO BOTTOM OF GRUBBING MATERIAL SLOPE (ELEV. 497.00)

510

516.08 3





Section 'A-A'

510

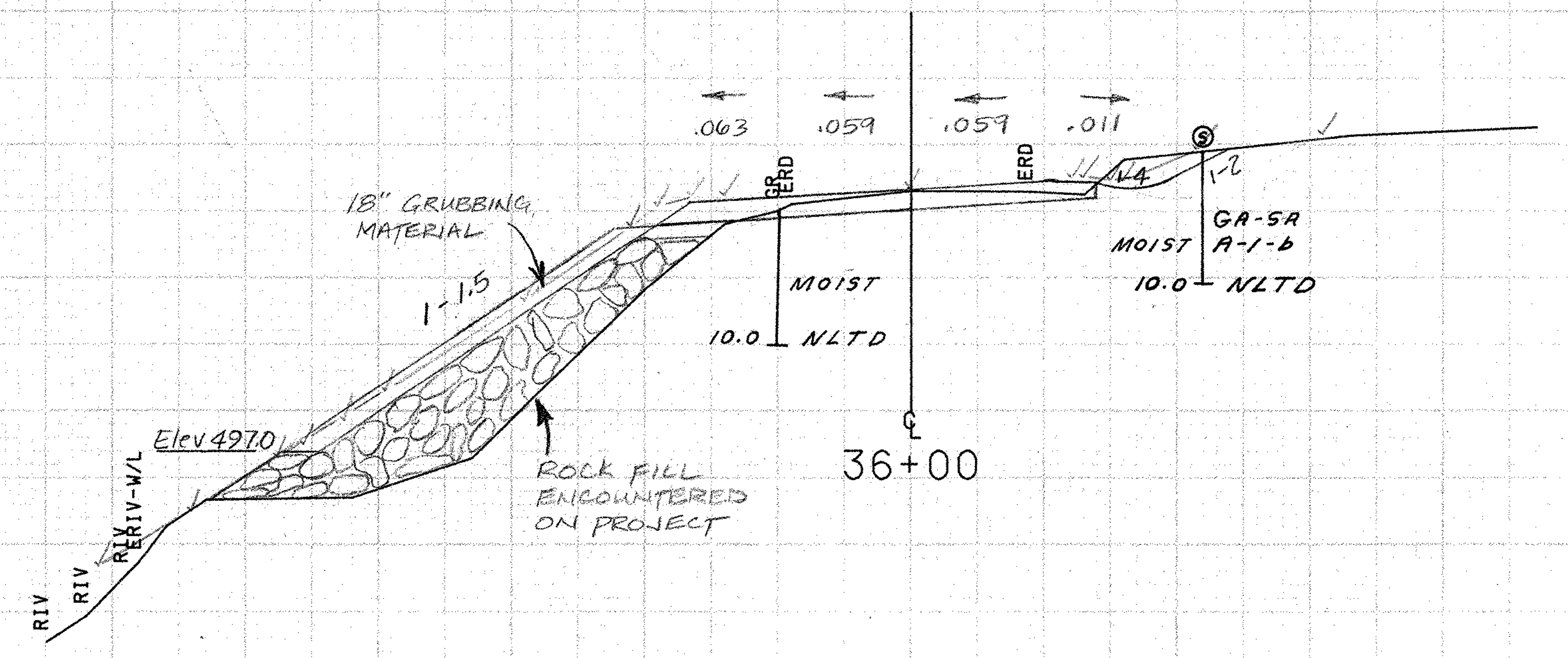
TH2 36+79 - 36+23 RT
NEW 15" x 56' PCCSP (.064),
CAAP (.060) OR CPEP

TH 2 36+50 RT
CONSTRUCT GRAVEL DRIVE

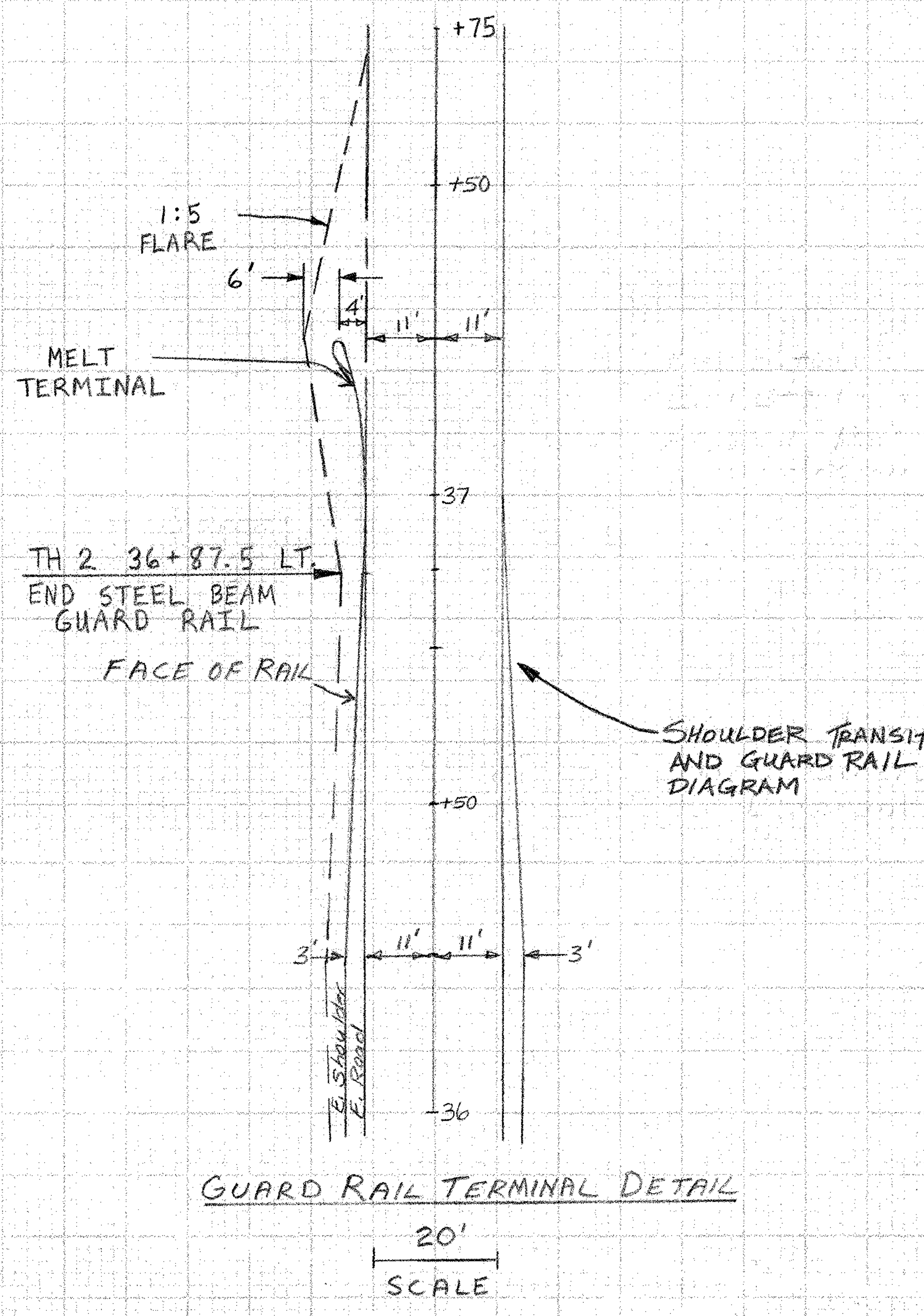
TH 2 36+23 ℄
NEW 18" x 48' PCCSP (.064),
CAAP (.060) OR CPEP

36+33 LT
COMBO POLE
187/8

516.63 9



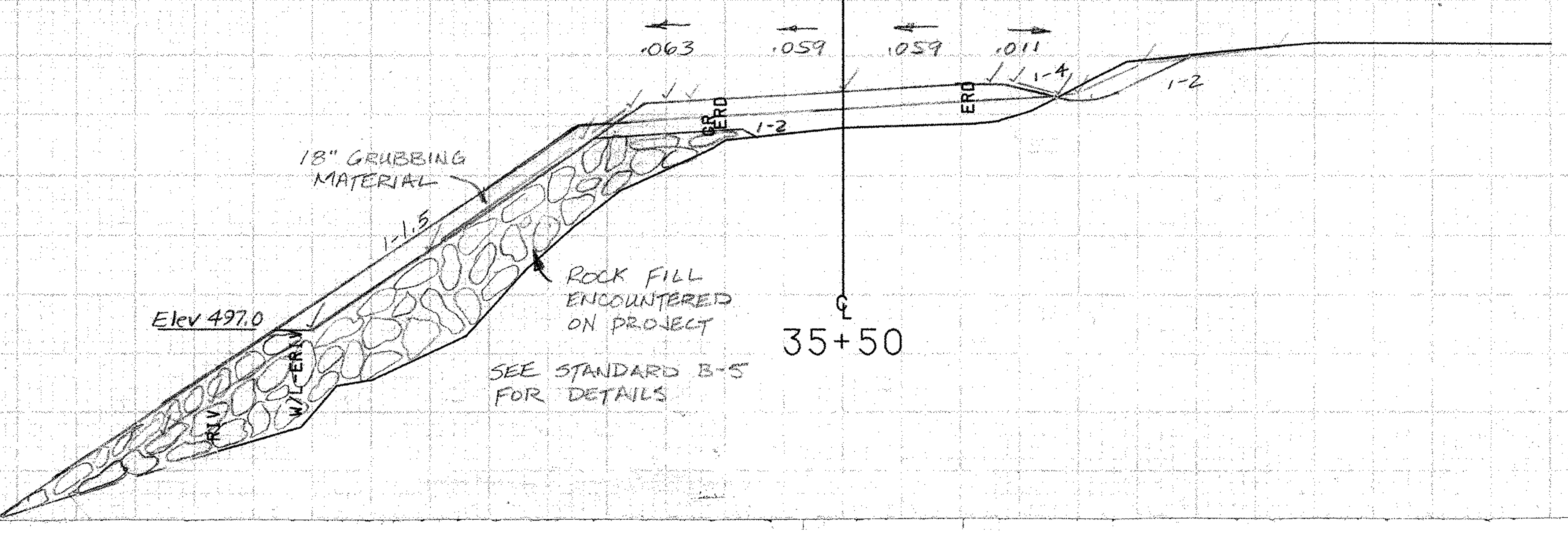
510



GUARD RAIL TERMINAL DETAIL

516.94

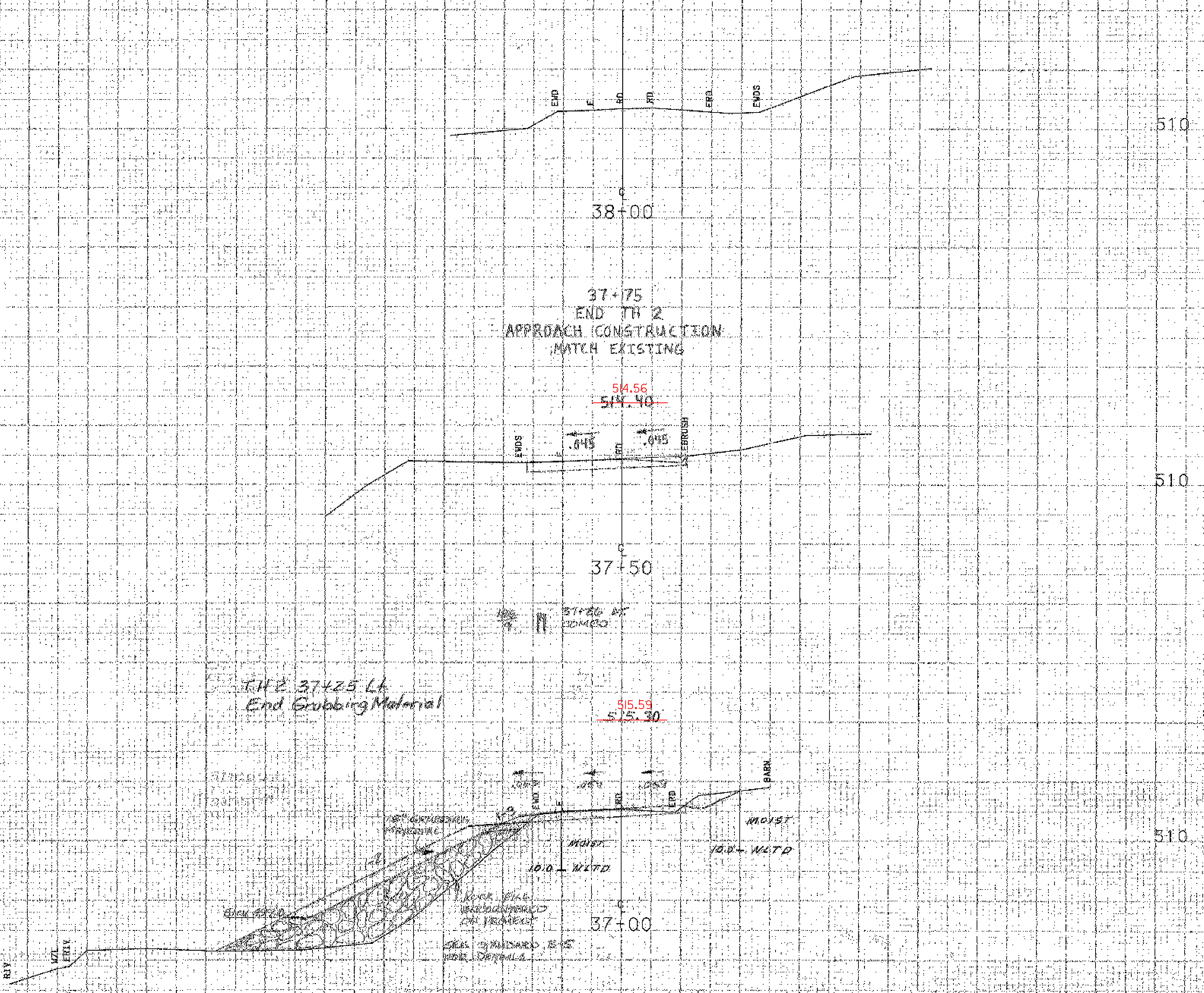
35+67 RT
COMBO POLE W/METER



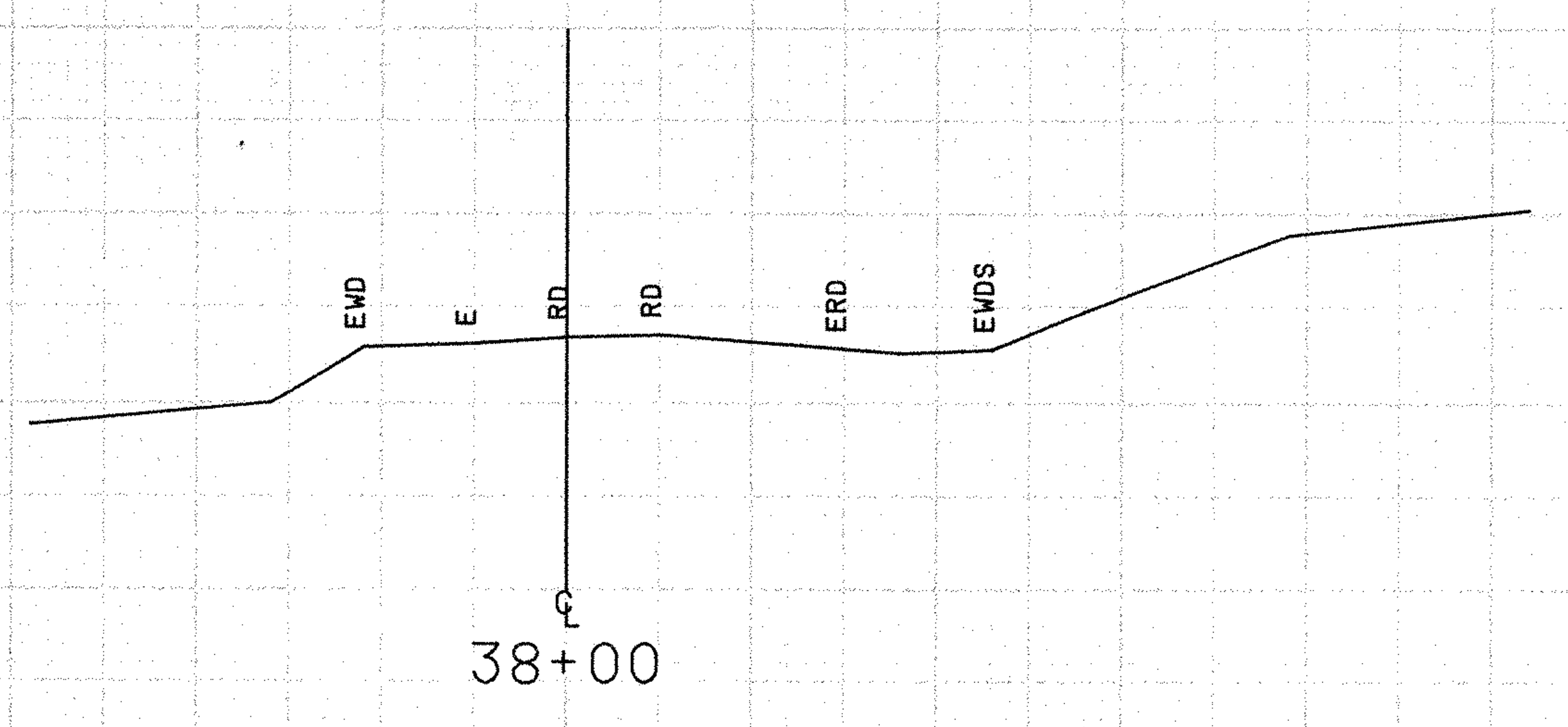
510

SCALE 10 FEET

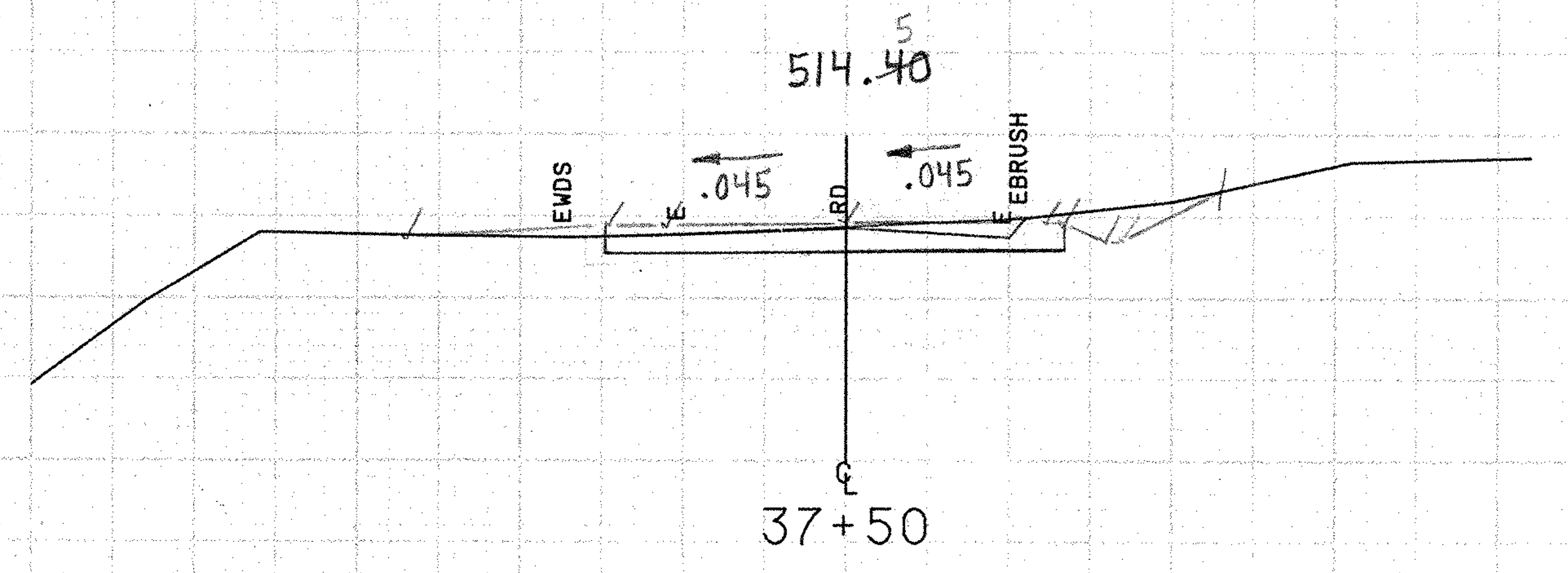
FROM STA. 35+50 TO STA. 36+50
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EG(RS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 126 OF 243 SHEETS



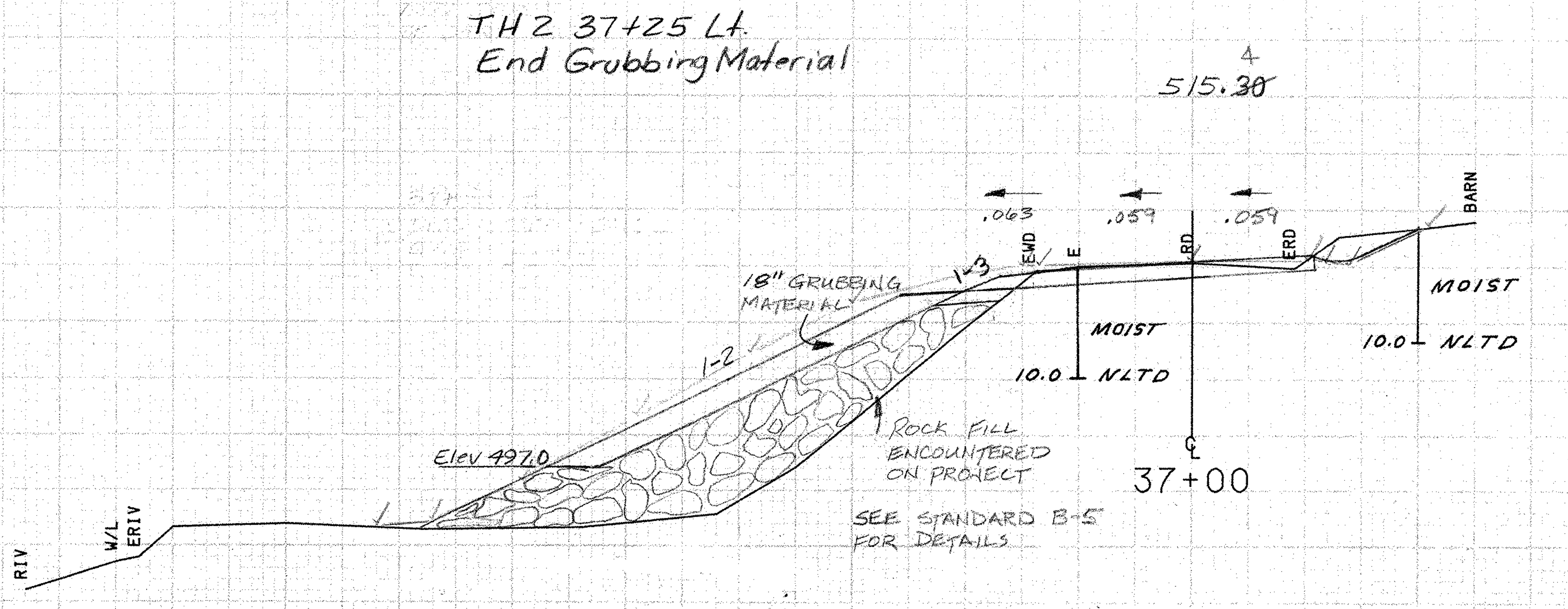
FROM STA. 37+00 TO STA. 38+00
PROJECT NAME MORETOWN TH2
NO. [illegible]CRS0167(9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET [illegible] SHEETS



37+75
END TH 2
APPROACH CONSTRUCTION
MATCH EXISTING

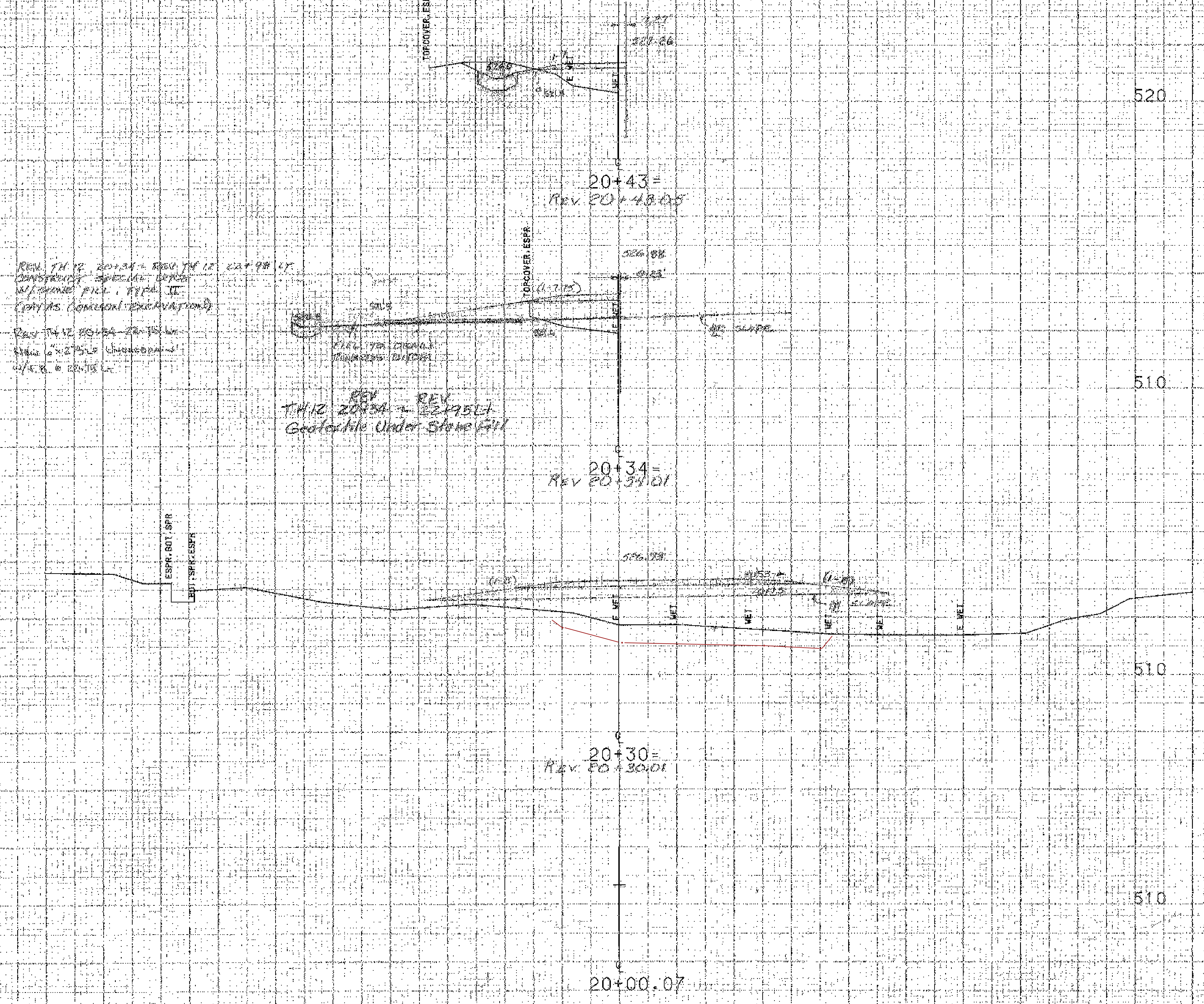


186/9 𝍸 37+26 LT.
COMBO



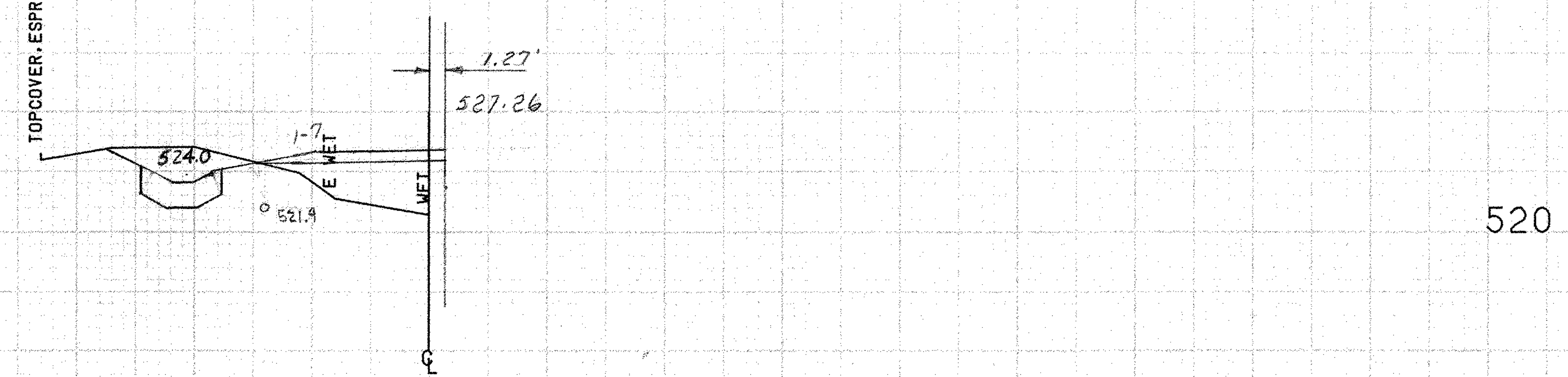
SCALE 10 FEET

FROM STA. 37+00 TO STA. 38+00
PROJECT NAME MORETOWN-MIDDLESEX TH2
NO. RS EG CRS0167 (9) PLOTTED 06/09/86
SURVEYED BY NYE JAN 1985
SHEET 127 OF 243 SHEETS



SCALE 10 FEET

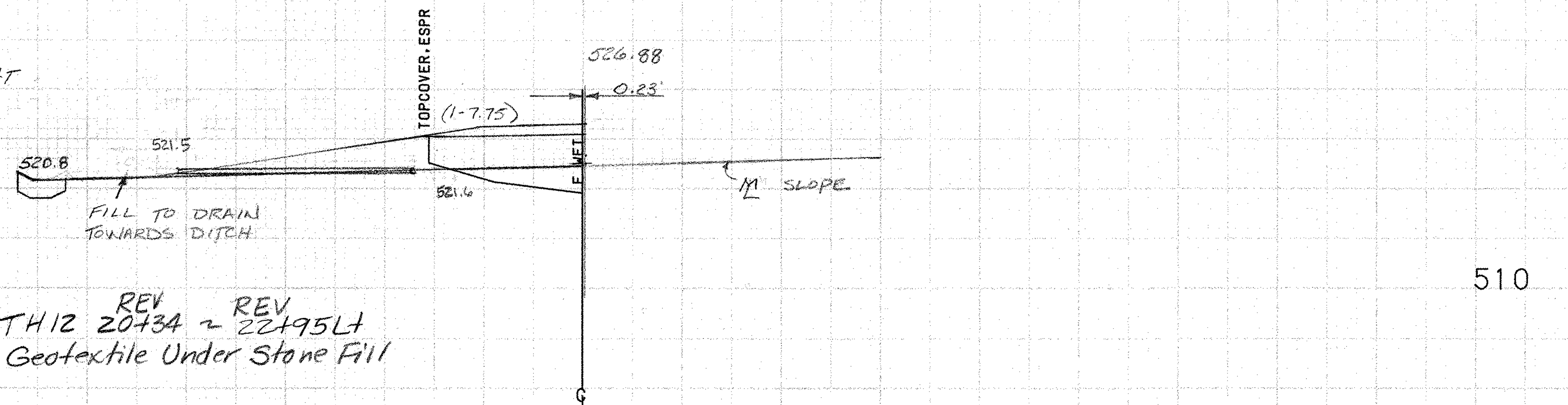
FROM STA. 20+00.07 TO STA. 20+43
PROJECT NAME MORETOWN
NO. RS0167(9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET 123 OF 243 SHEETS



20+43 =
REV 20+43.05

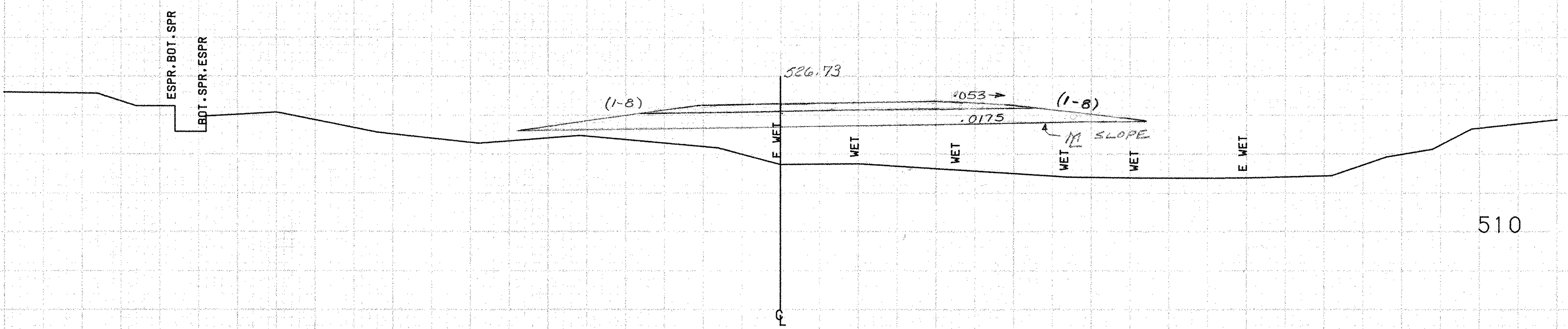
REV. TH 12 20+34 ~ REV TH 12 22+98 LT
CONSTRUCT SPECIAL DITCH
W/ STONE FILL, TYPE II
(PAY AS COMMON EXCAVATION)

REV TH 12 20+34 ~ 22+75 LT
NEW 6" x 275 LF UNDERDRAIN
W/ F.B. @ 22+75 LT

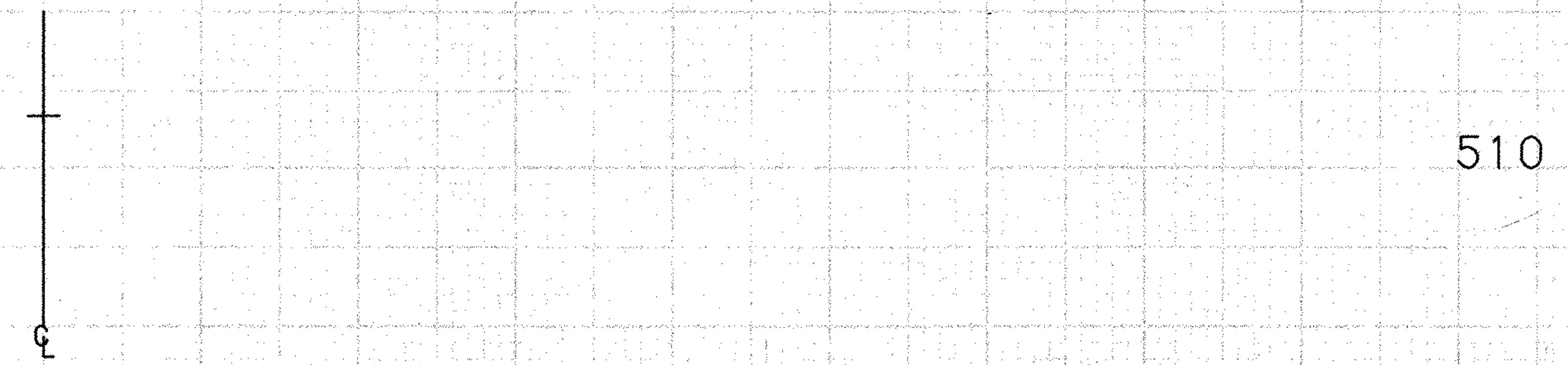


TH12 $\overset{REV}{20+34}$ ~ $\overset{REV}{22+95}$Lt
Geotextile Under Stone Fill

20+34 =
REV 20+34.01



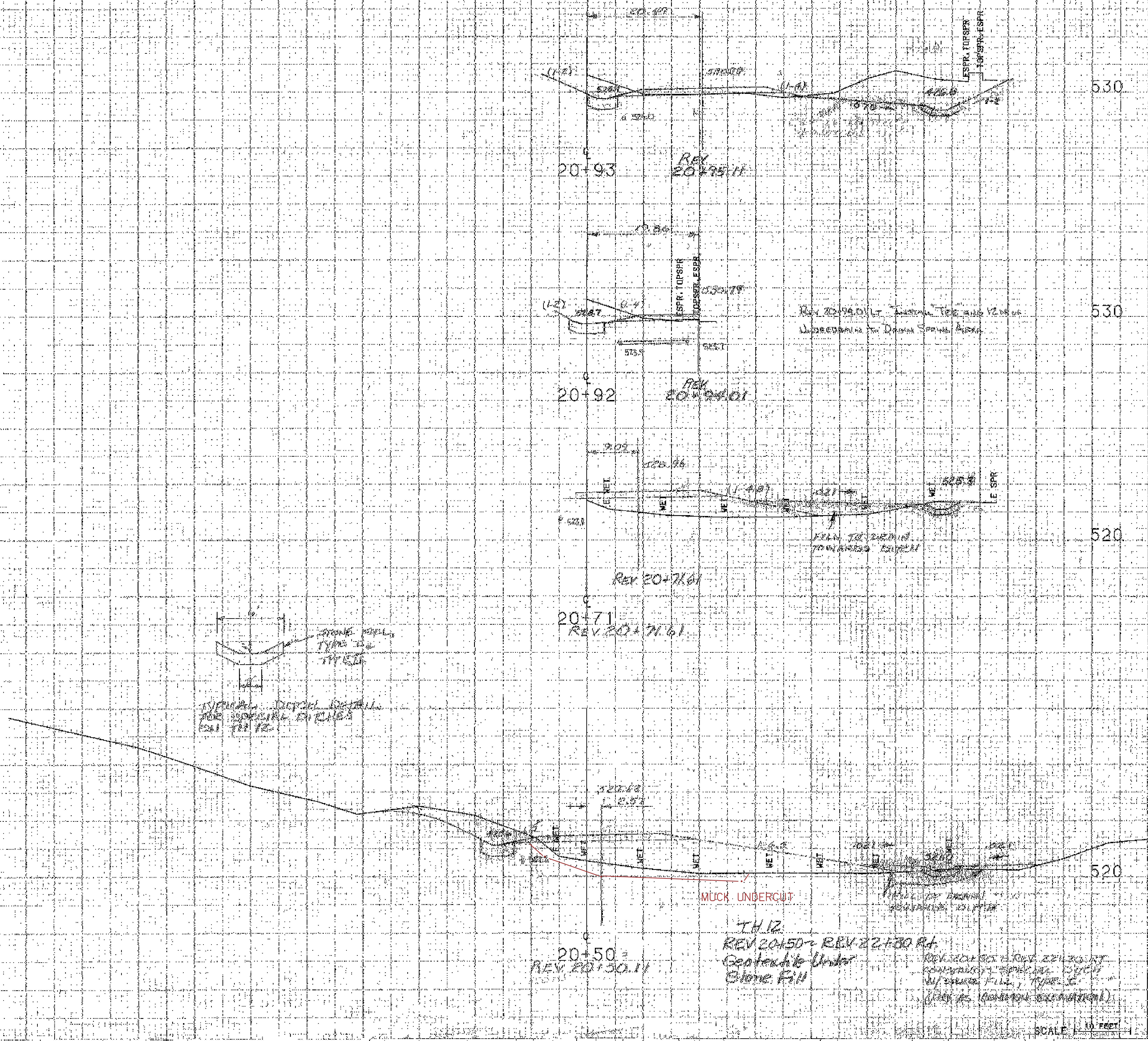
20+30 =
REV. 20+30.01



20+00.07

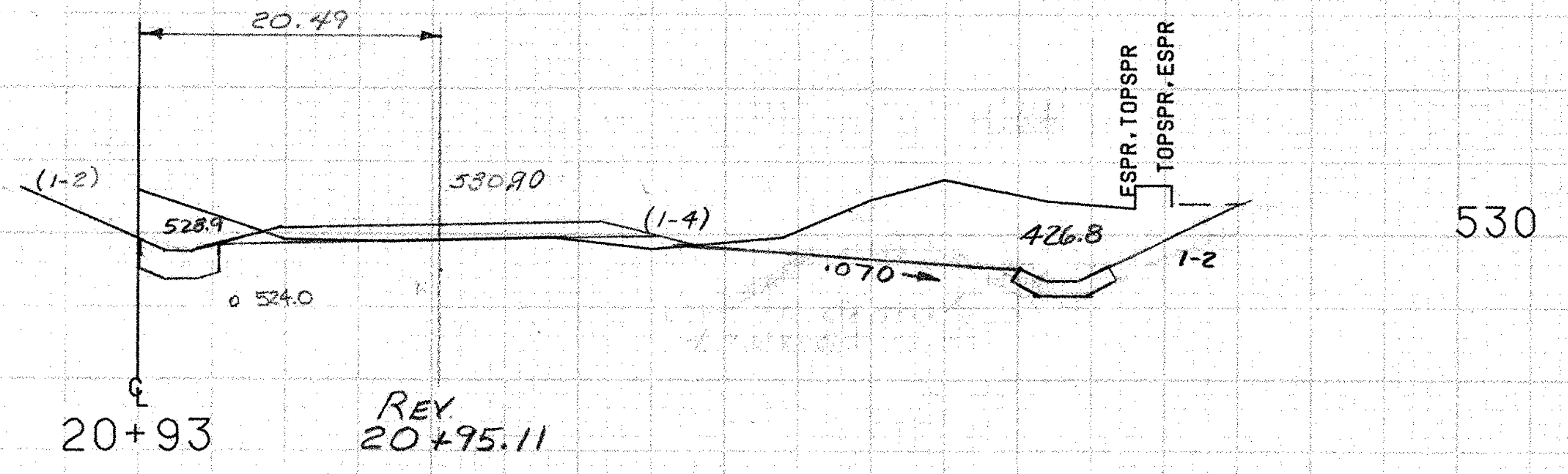
SCALE 10 FEET

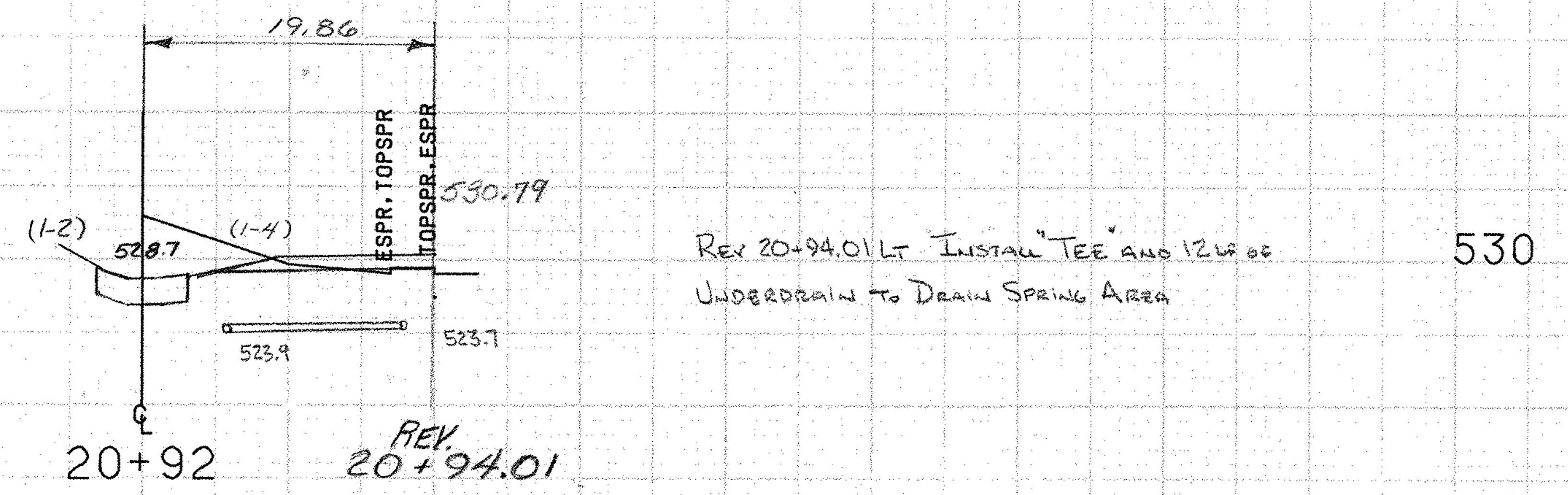
FROM STA. 20+00.07 TO STA. 20+43
PROJECT NAME MORETOWN TH #12
NO. RSEG(RS0167 (9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET 128 OF 243 SHEETS



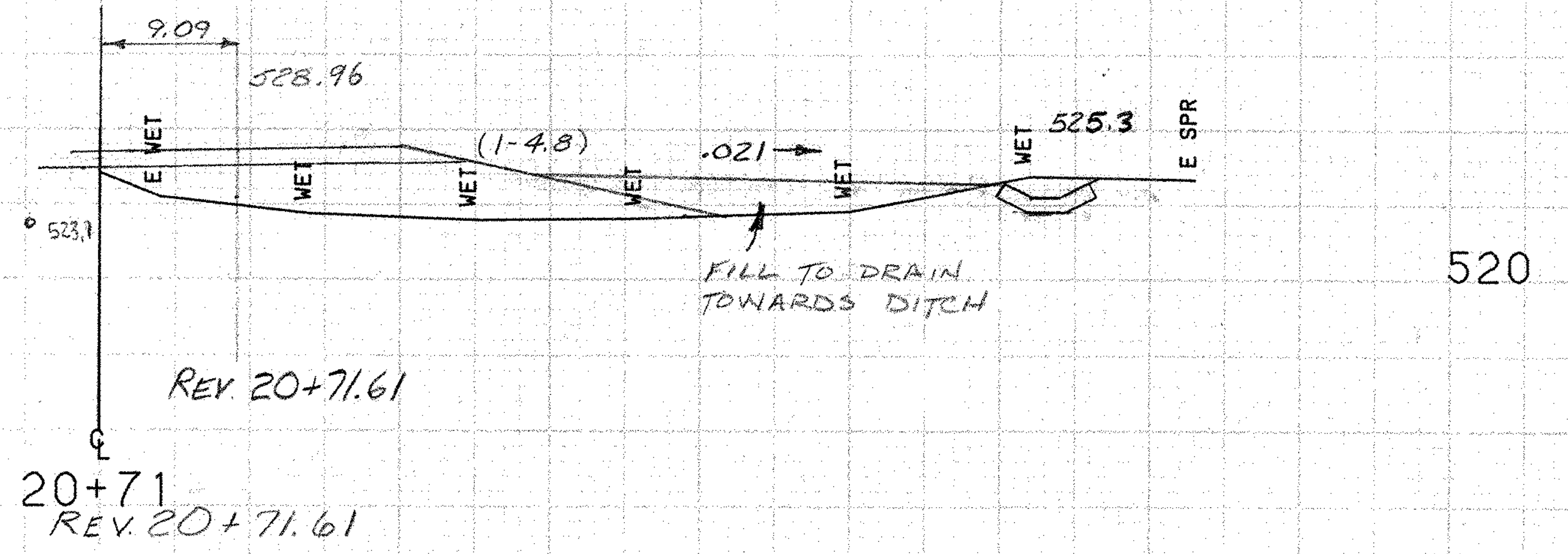
T.H.12

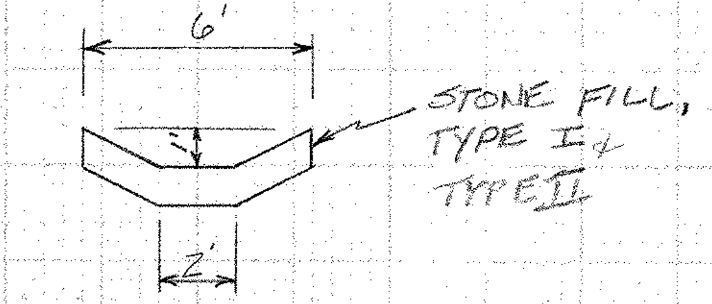
FROM STA. 20+50 TO STA. 20+93
PROJECT NAME MORETOWN
NO. RS0167(9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET [illegible] OF [illegible] SHEETS



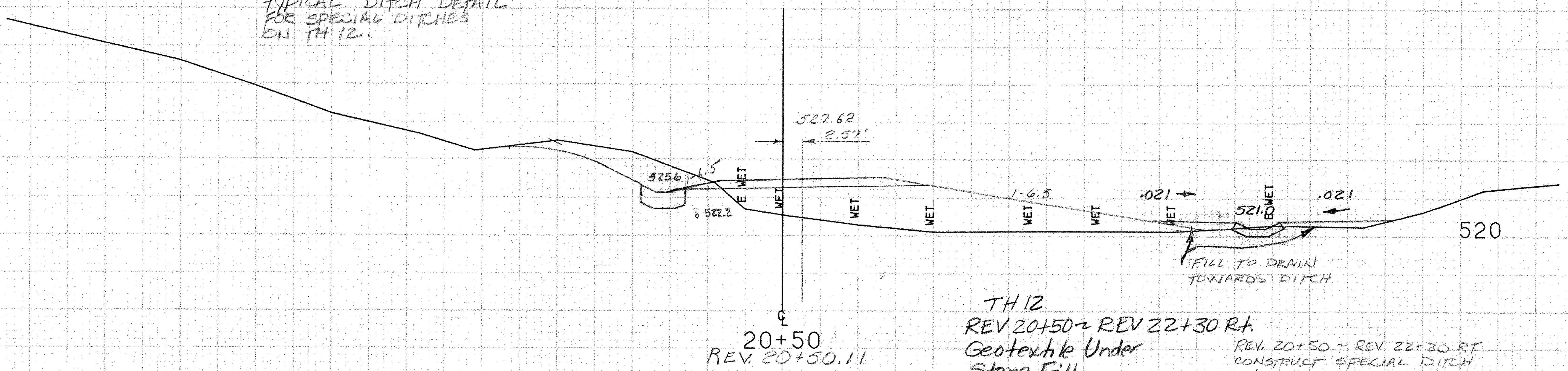


Rev 20+94.01 Lt Install "Tee" and 12 lf of
Underdrain to Drain Spring Area





TYPICAL DITCH DETAIL
FOR SPECIAL DITCHES
ON TH 12.



TH 12
REV 20+50 – REV 22+30 Rt.
Geotextile Under
Stone Fill

REV. 20+50 – REV 22+30 RT
CONSTRUCT SPECIAL DITCH
W/ STONE FILL, TYPE II
(PAY AS COMMON EXCAVATION)

SCALE 10 FEET

TH 12

FROM STA. 20+50		TO STA. 20+93	
PROJECT NAME	MORETOWN		
NO. RS EGC RS0167 (9)		PLOTTED 10/07/86	
SURVEYED BY	FANTONI	SEPT 86	
SHEET 129 OF 243 SHEETS			

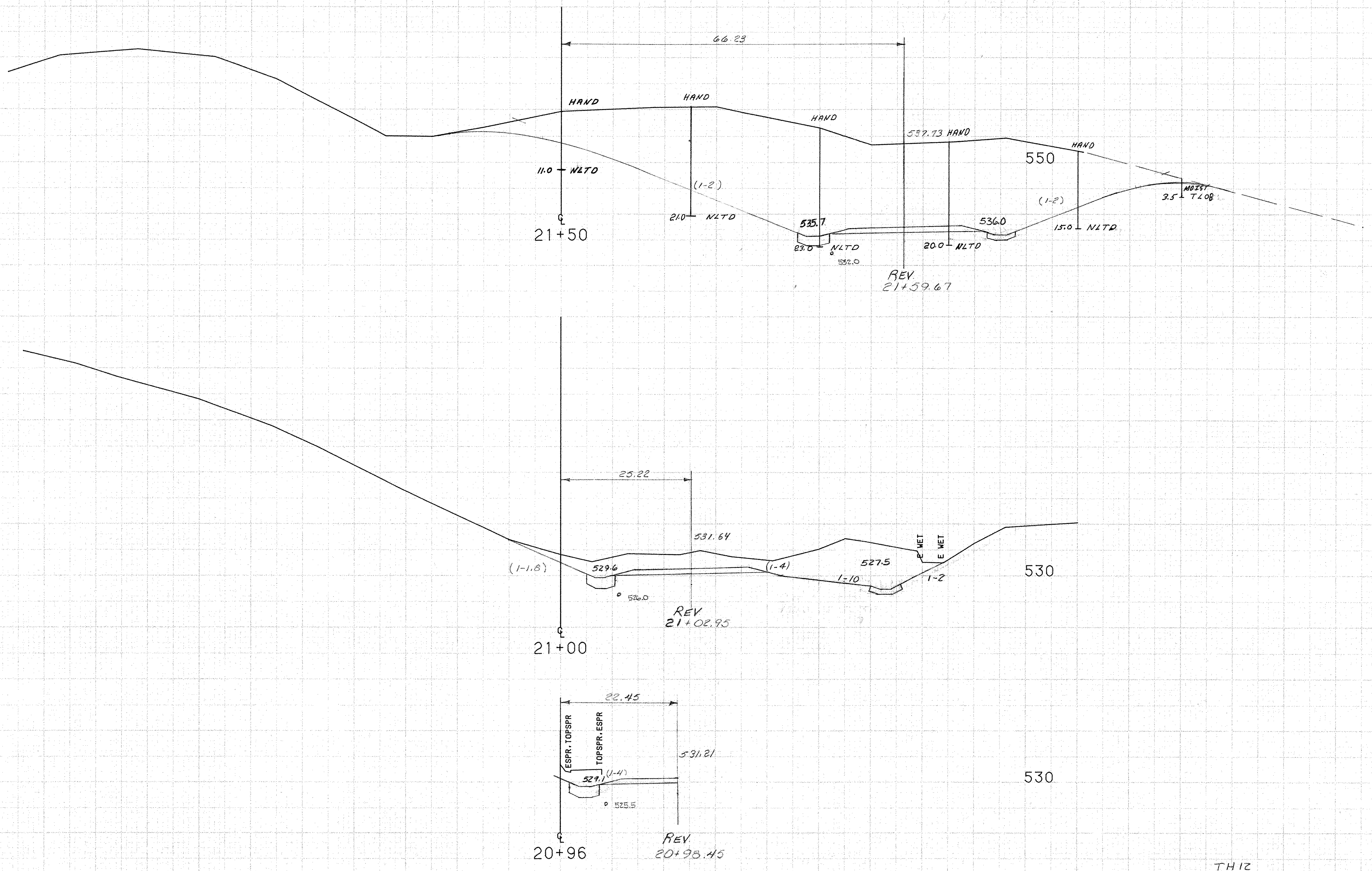
CROSS SECTION SHEET

PROJECT NAME: Moretown RSEGC0167(9)
PROJECT NUMBER:

FILE NAME: TH-12
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn

PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW
CHECKED BY:
SHEET 1 OF 5

129A



THIZ

SCALE 10 FEET

FROM STA. 20+96 TO STA. 21+50
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET 130 OF 243 SHEETS

529.90

28.0 ft Elev.

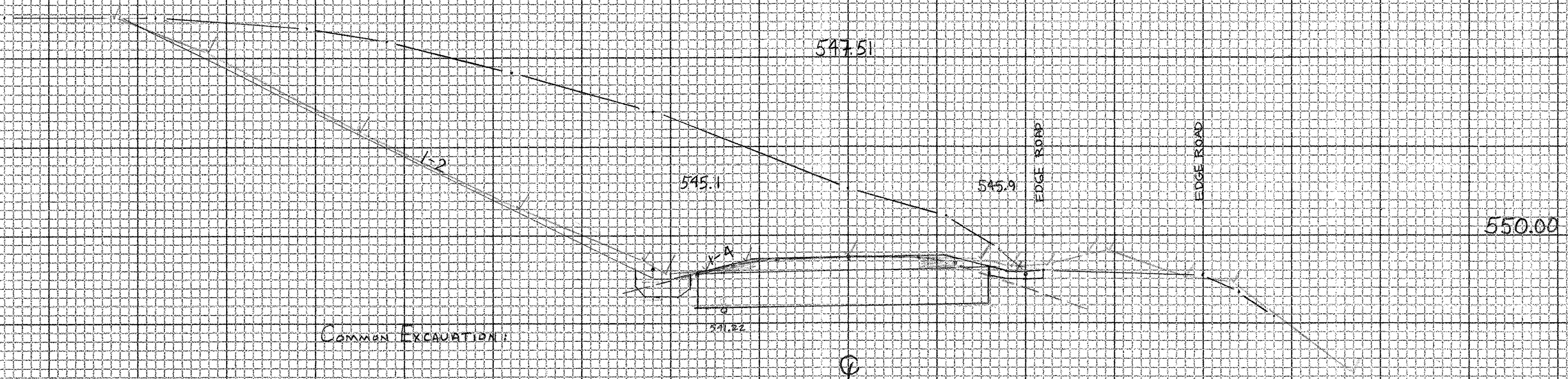
CROSS SECTION SHEET

PROJECT NAME: Moretown
PROJECT NUMBER: RSEGC RS0167(9)

FILE NAME: TH# 12
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn

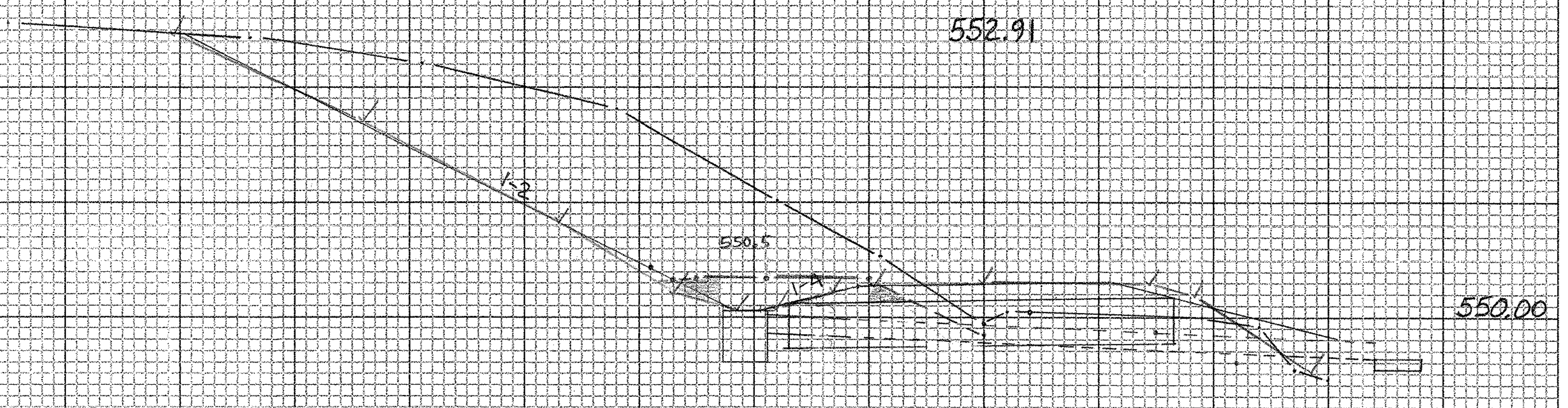
PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW 10-2-00
CHECKED BY:
SHEET 2 OF 5

130A



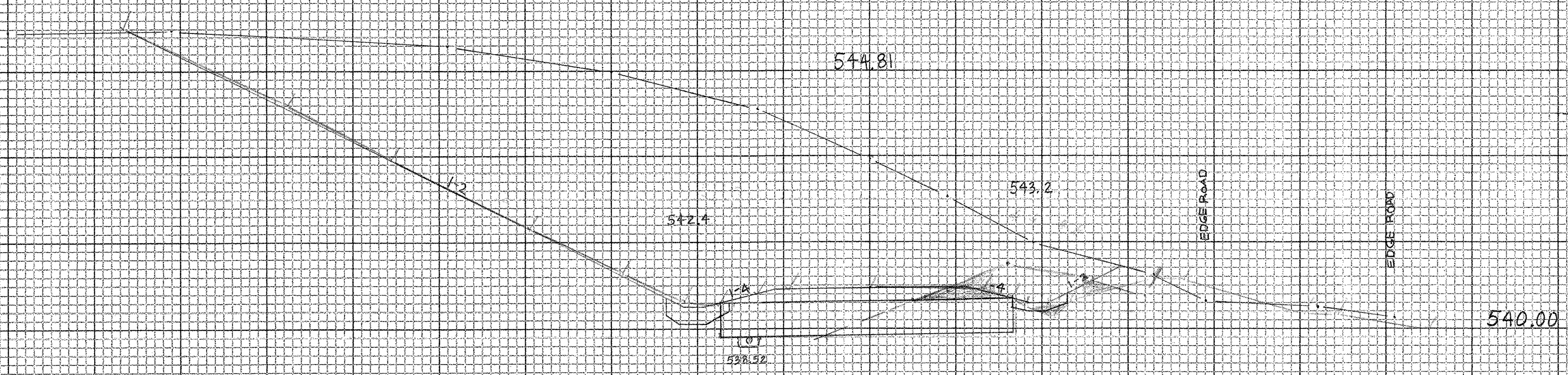
Common Excavation:

℄
22+50



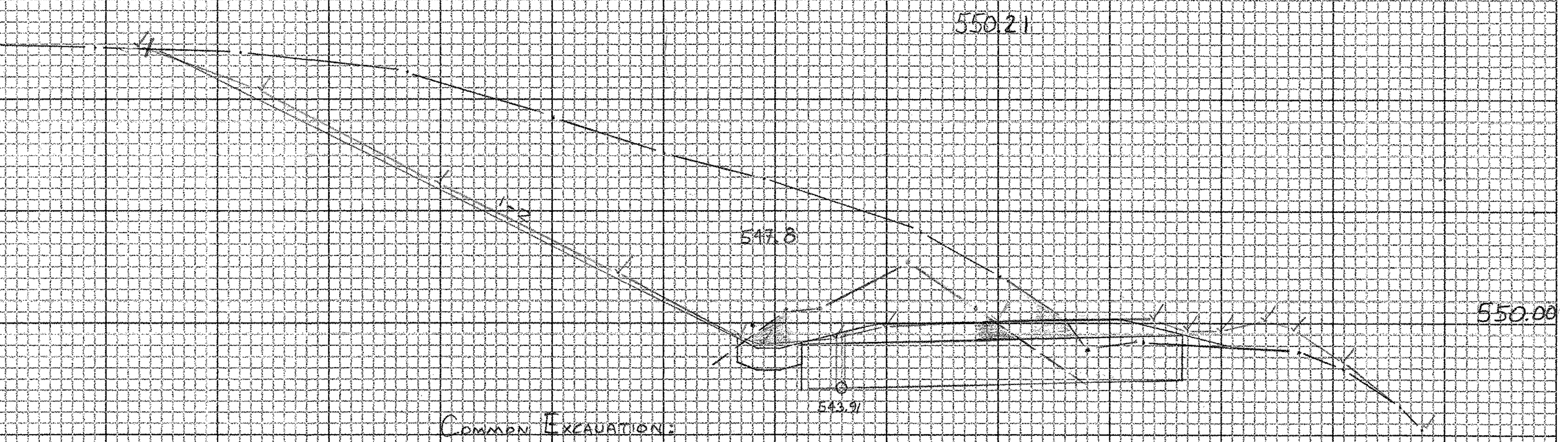
Common Excavation:

℄
23+00



Common Excavation:

℄
22+25



Common Excavation:

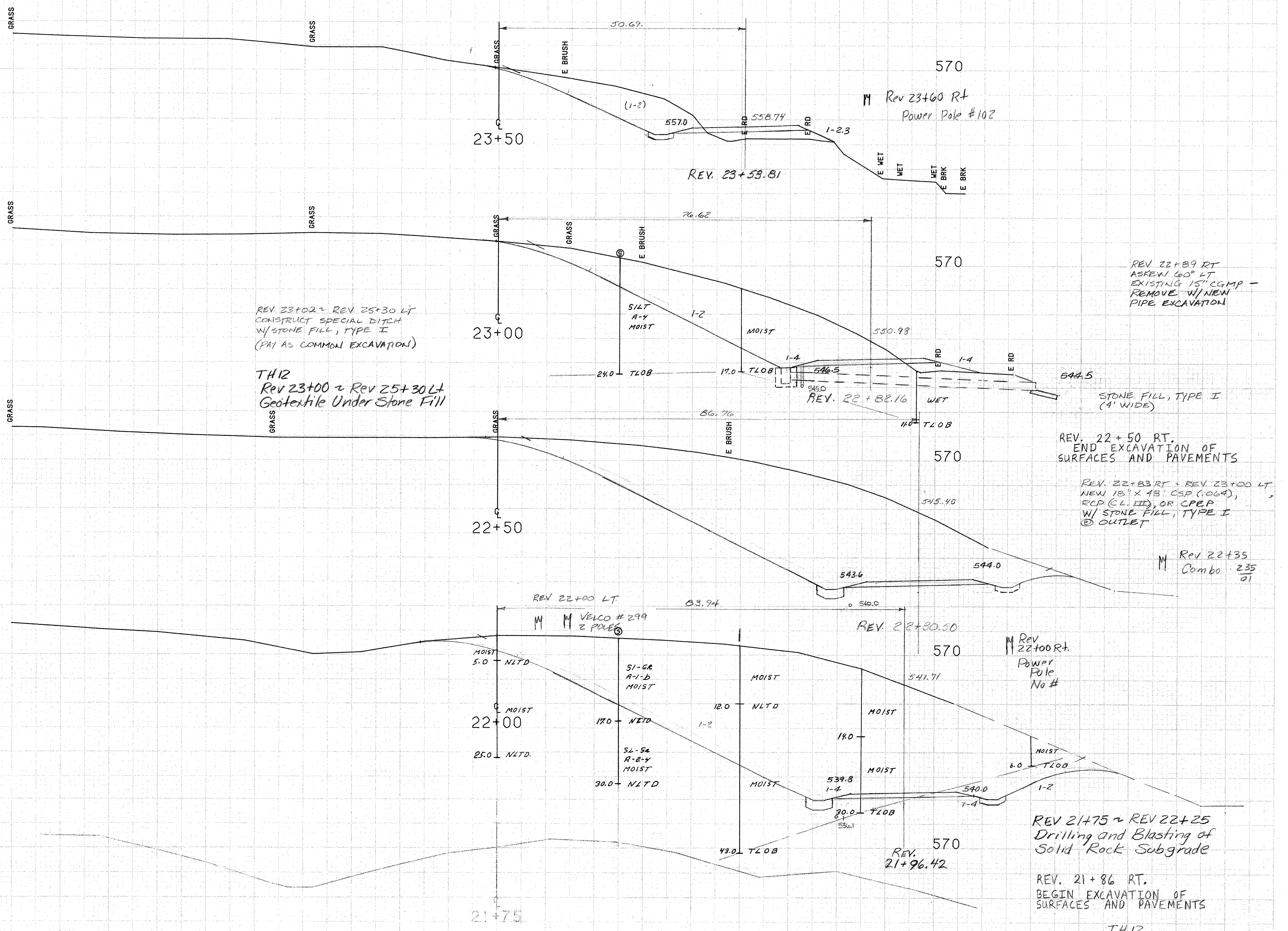
℄
22+75

CROSS SECTION SHEET

PROJECT NAME: Moretown
PROJECT NUMBER: RSEGC0167(9)

FILE NAME: TH-12
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn
PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW
CHECKED BY:
SHEET 3 OF 5

130 B



REV. 23+02 ~ REV. 25+30 LT
CONSTRUCT SPECIAL DITCH
W/ STONE FILL, TYPE I
(PAY AS COMMON EXCAVATION)

TH12
Rev 23+00 ~ Rev 25+30 Lt
Geotextile Under Stone Fill

REV. 22+89 RT
ASKEW 60° LT
EXISTING 15" CGMP -
REMOVE W/ NEW
PIPE EXCAVATION

STONE FILL, TYPE I
(4' WIDE)

REV. 22 + 50 RT.
END EXCAVATION OF
SURFACES AND PAVEMENTS

REV. 22+83 RT ~ REV. 23+00 LT
NEW 18" X 48' CSP (.064),
RCP (CL. III), OR CPEP
W/ STONE FILL, TYPE I
@ OUTLET

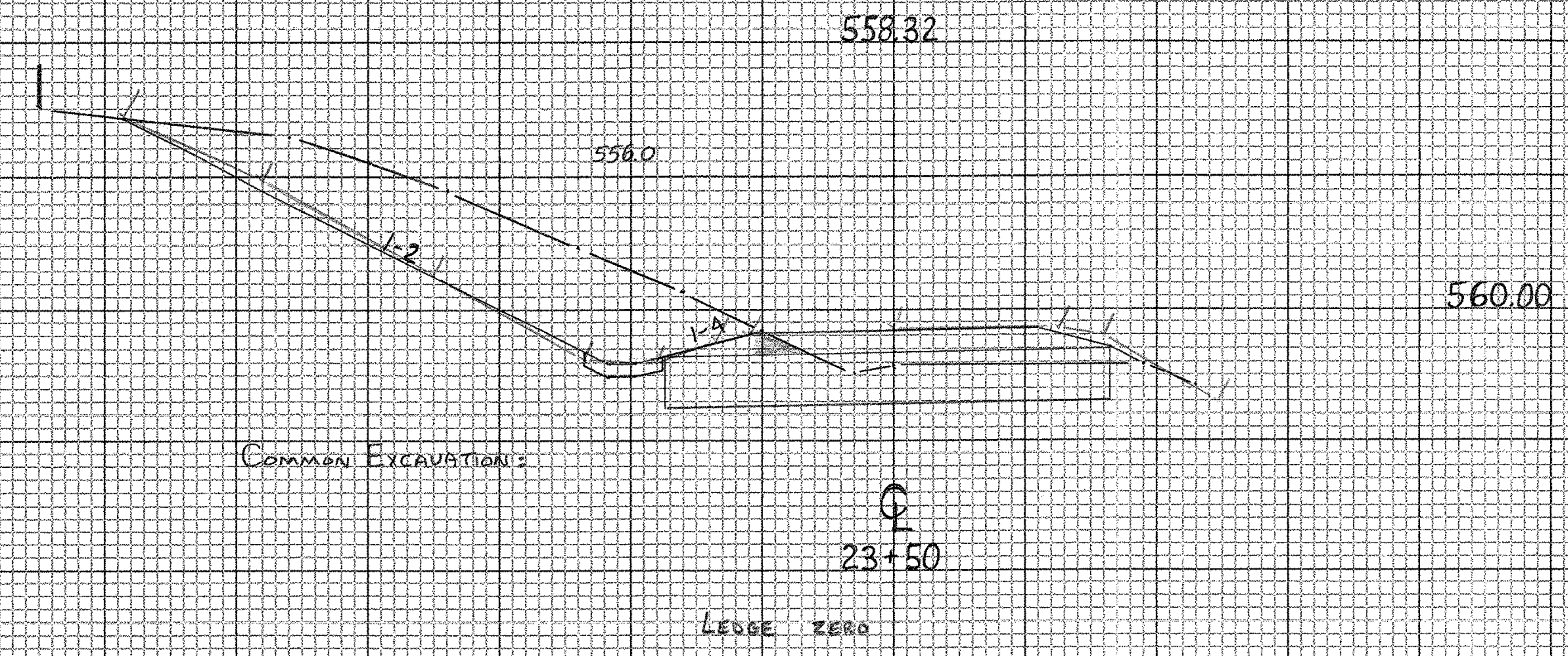
REV 21+75 ~ REV 22+25
Drilling and Blasting of
Solid Rock Subgrade

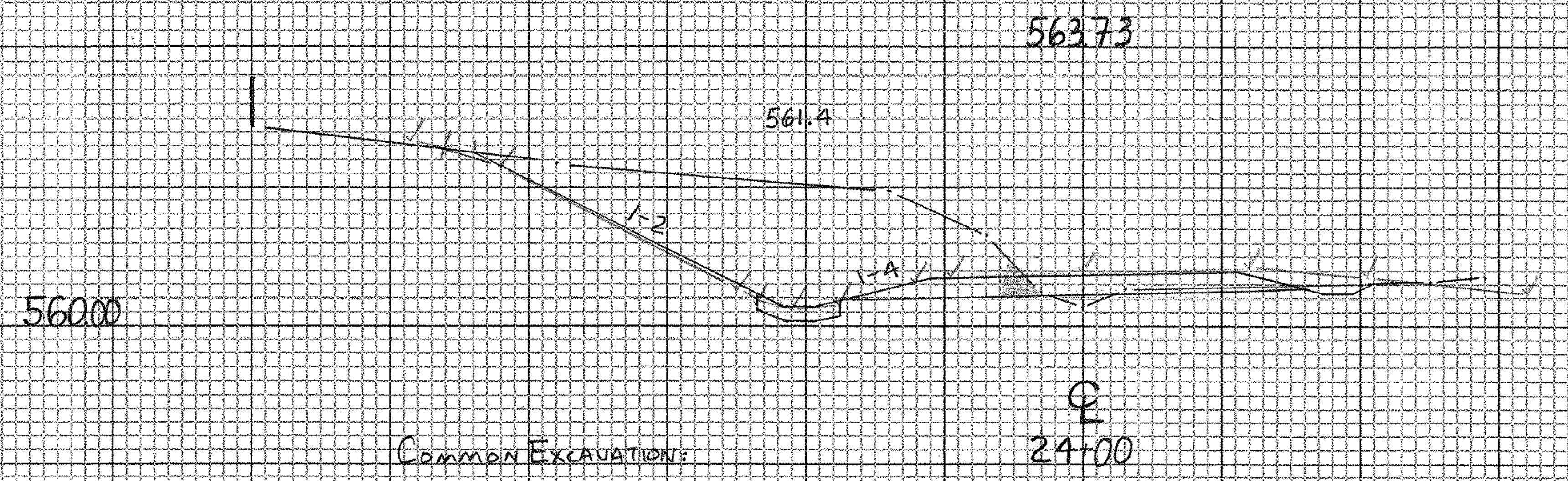
REV. 21 + 86 RT.
BEGIN EXCAVATION OF
SURFACES AND PAVEMENTS

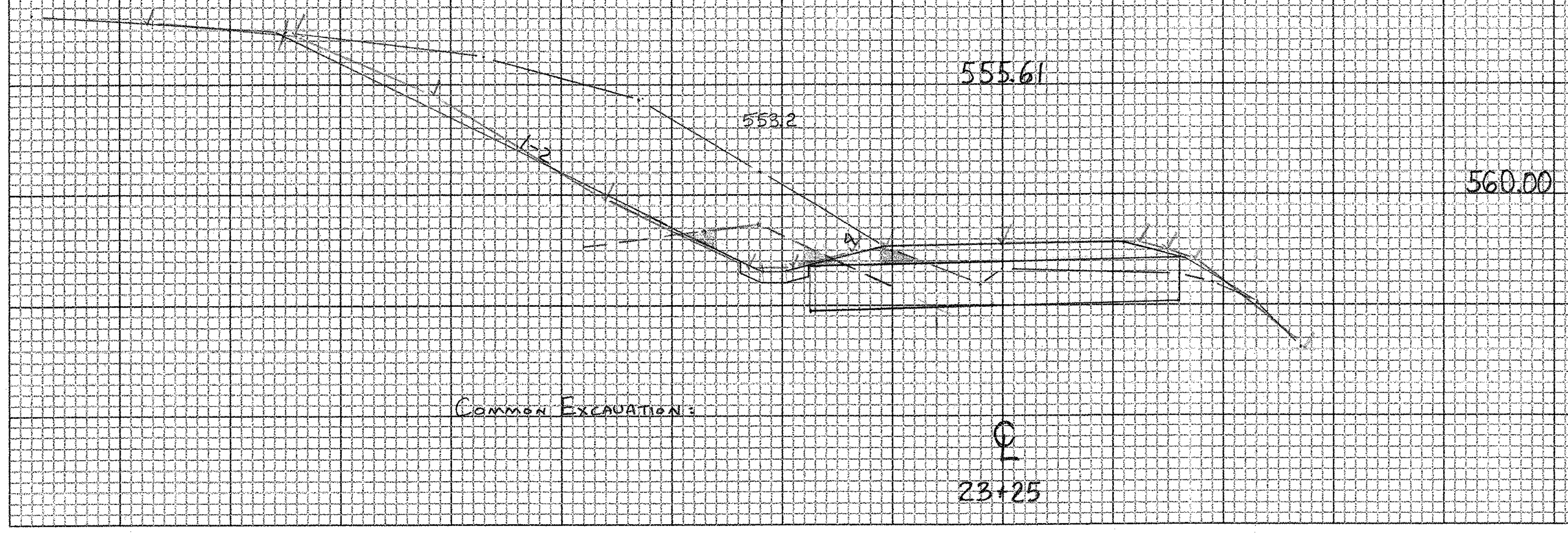
TH12

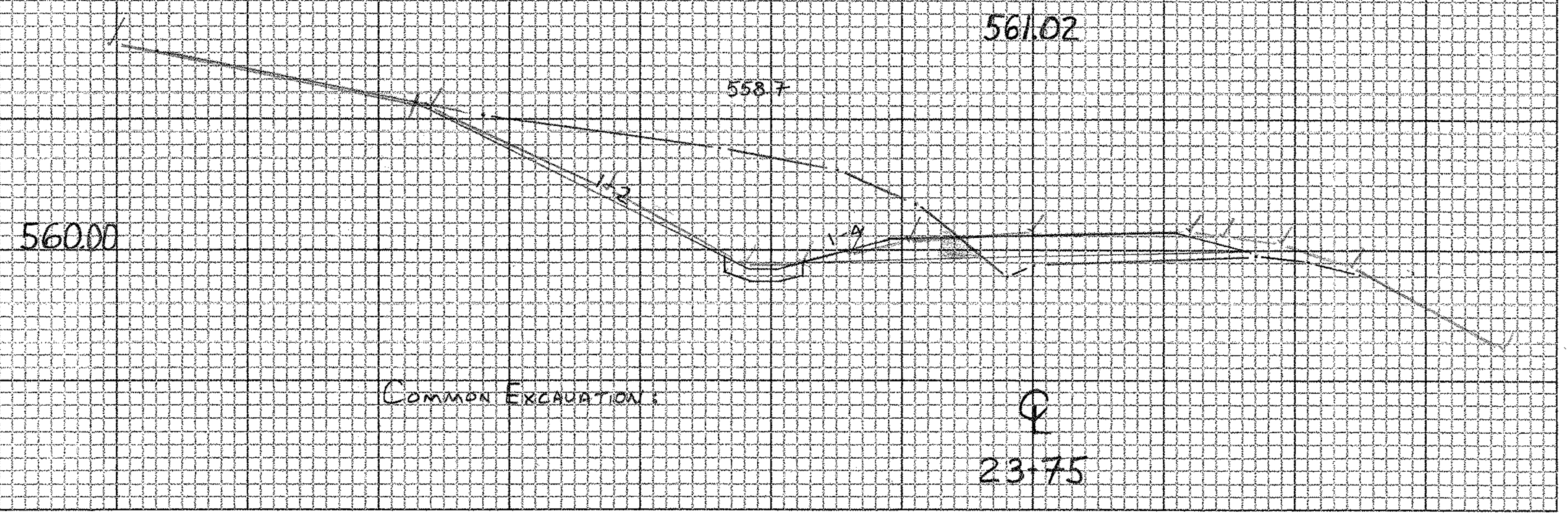
SCALE 10 FEET

FROM STA. 21+75 TO STA. 23+50
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET 131 OF 243 SHEETS





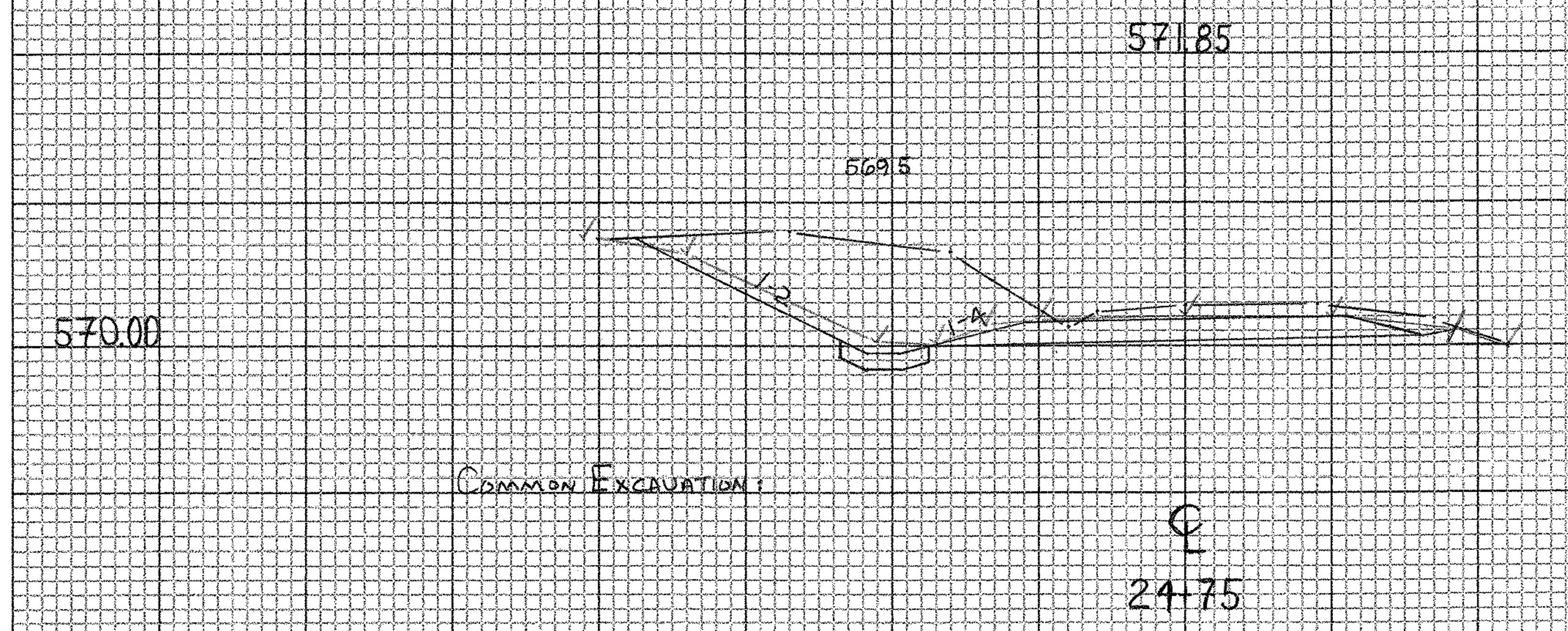


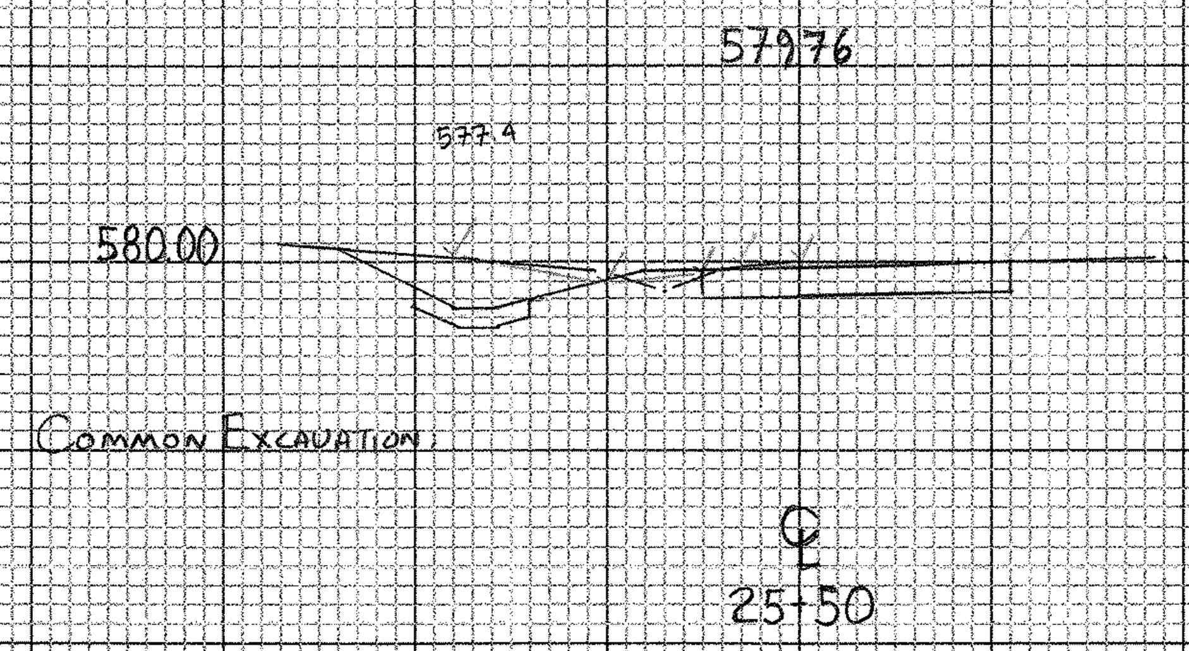


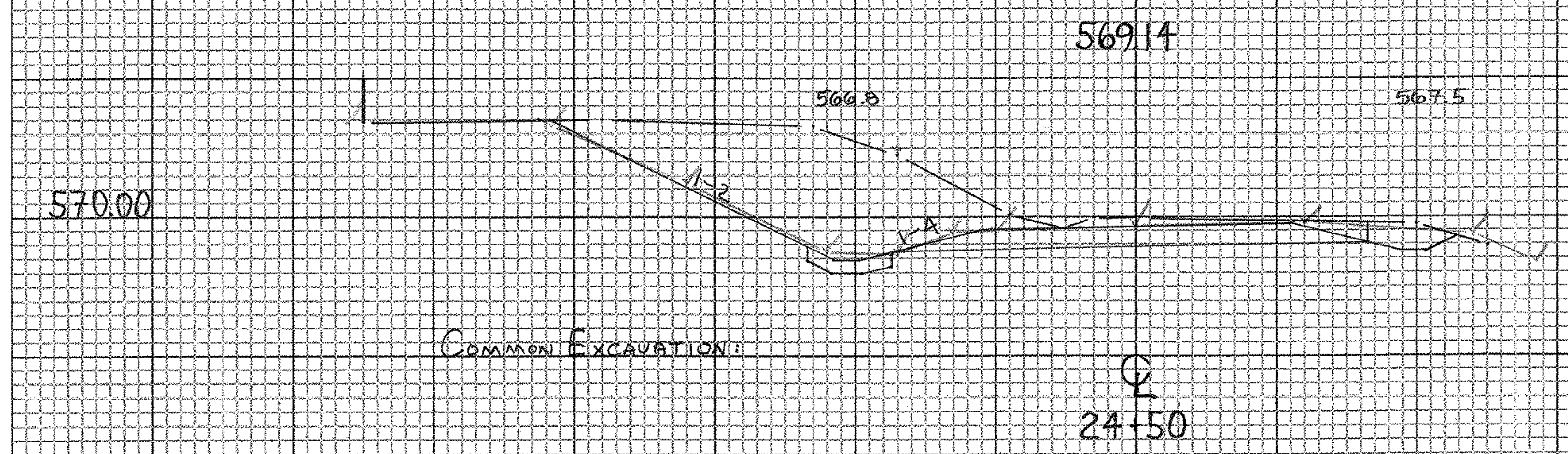
CROSS SECTION SHEET

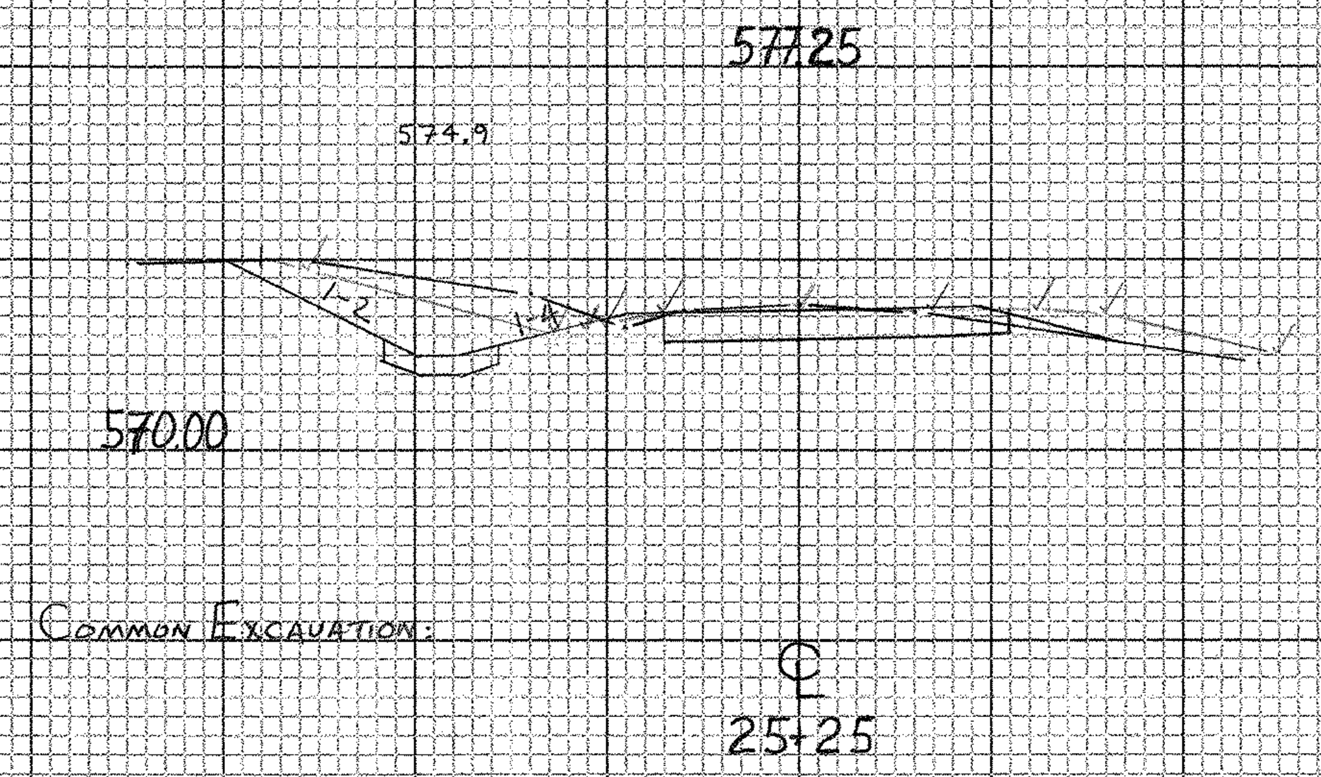
PROJECT NAME: Moretown
PROJECT NUMBER: RSEGC0167(9)
FILE NAME: TH-12
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn
PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW
CHECKED BY:
SHEET 4 OF 5

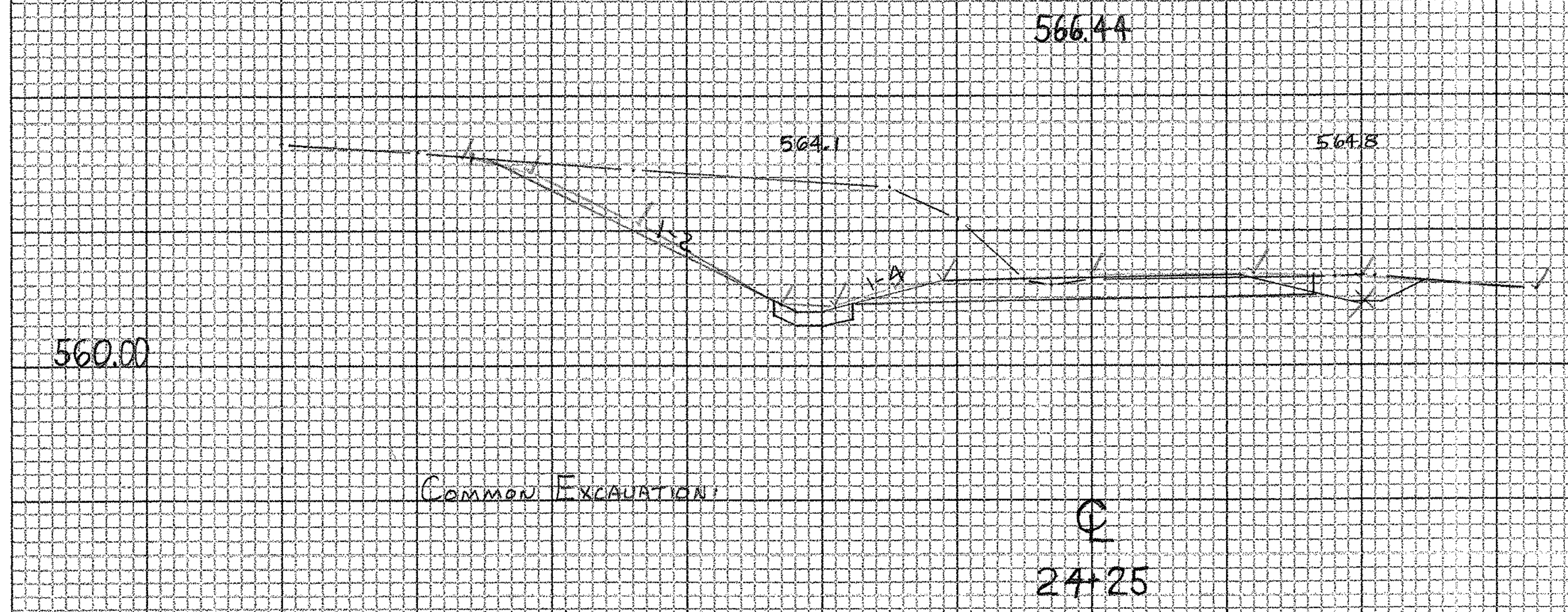
131A

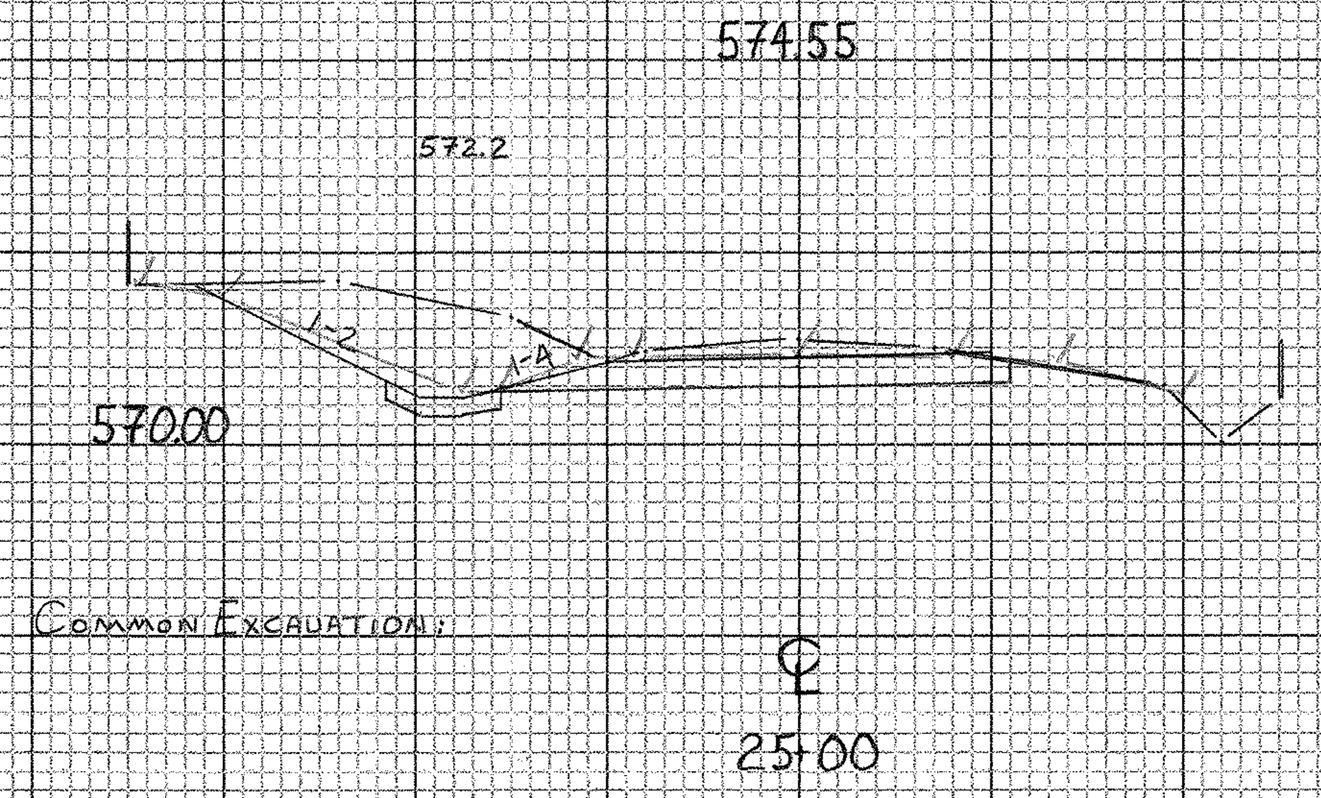


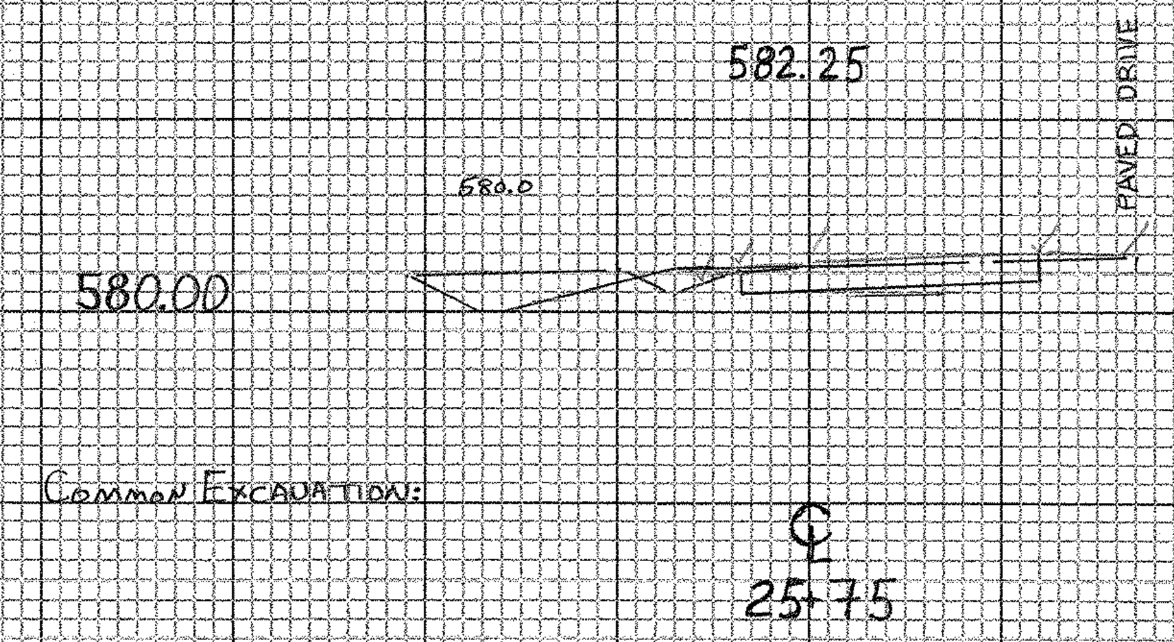












1

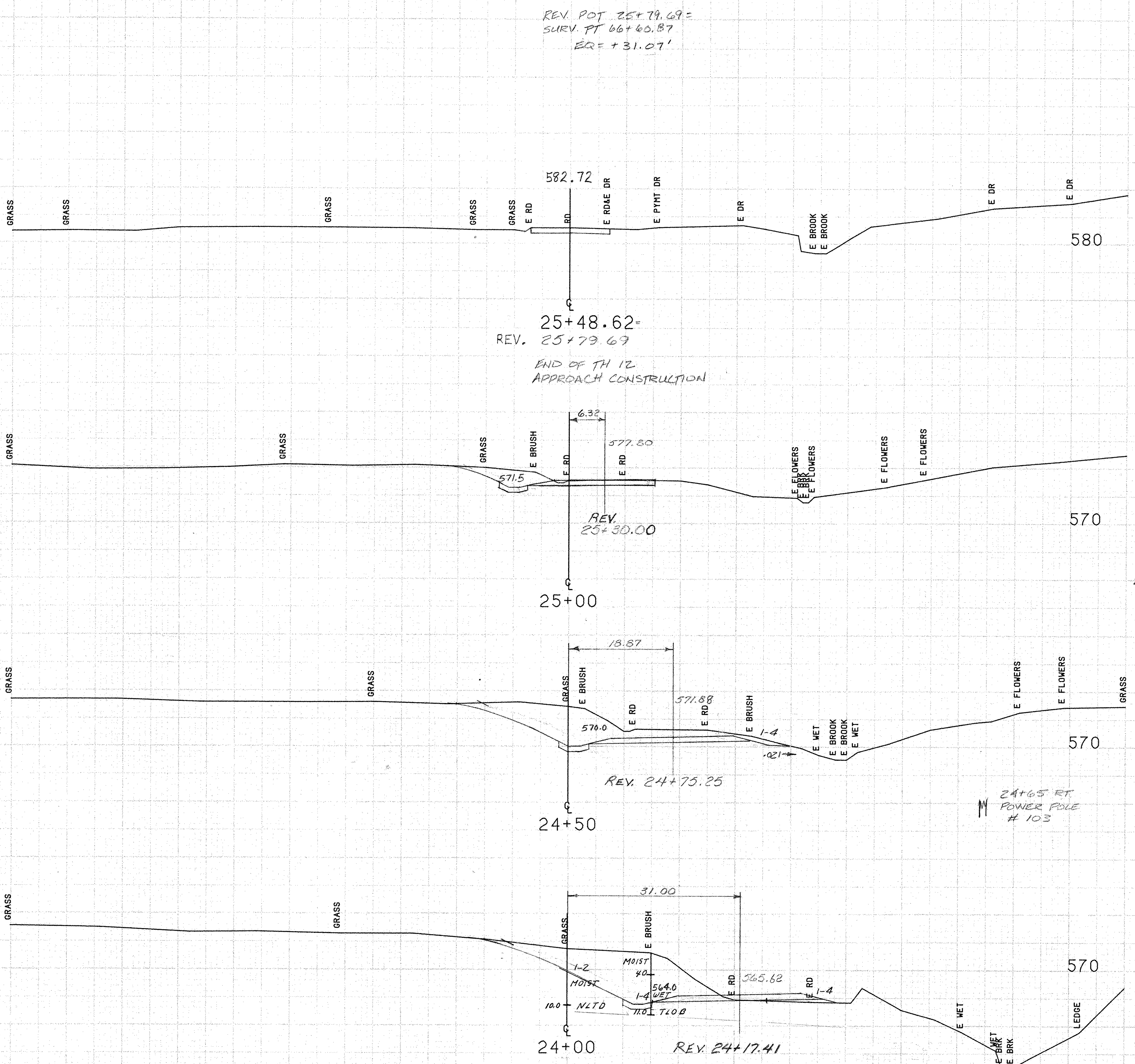
CROSS SECTION SHEET

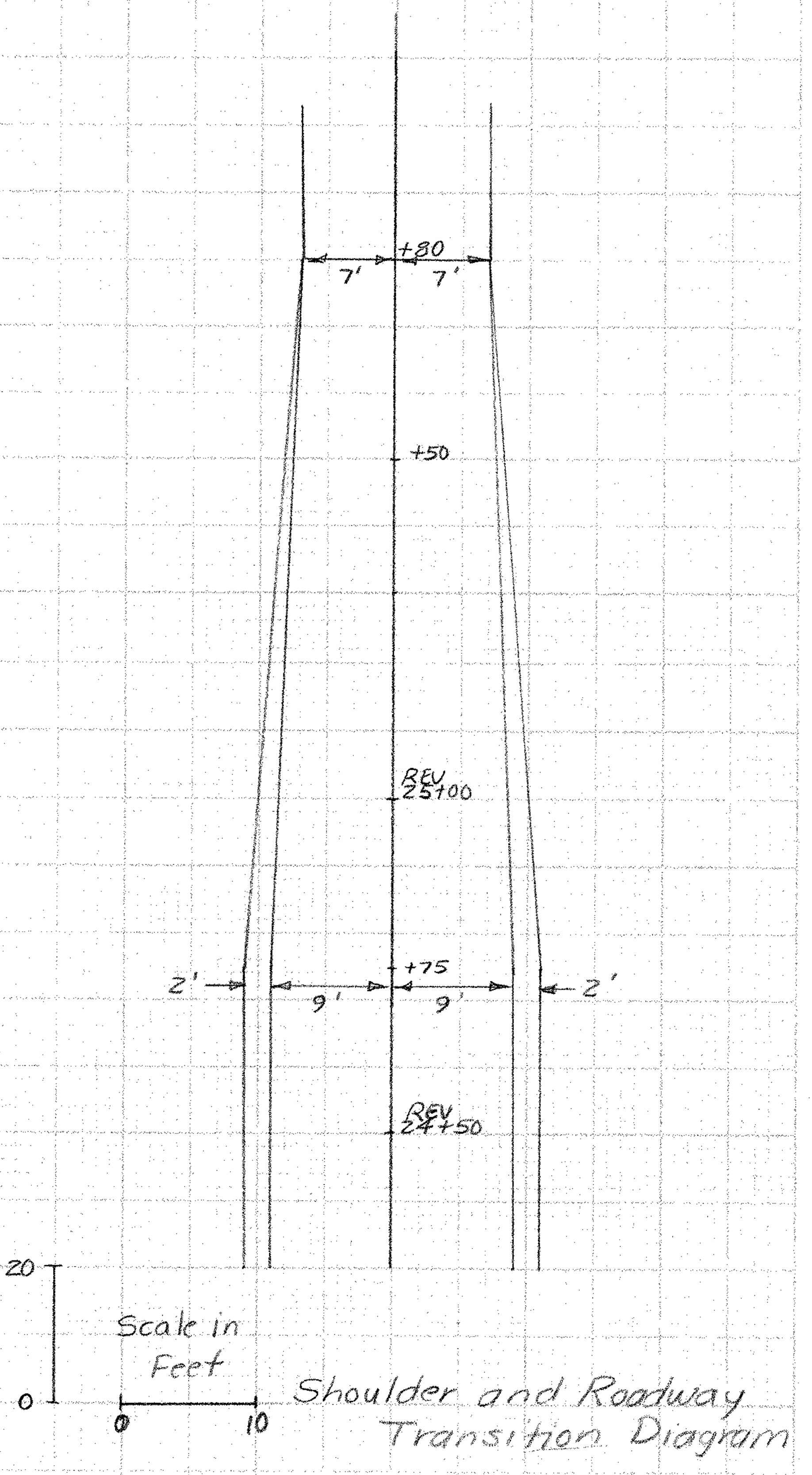
PROJECT NAME: Moretown
PROJECT NUMBER: RSEGC0167(9)

FILE NAME: TH-12
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn

PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW
CHECKED BY:
SHEET 5 OF 5

131 B





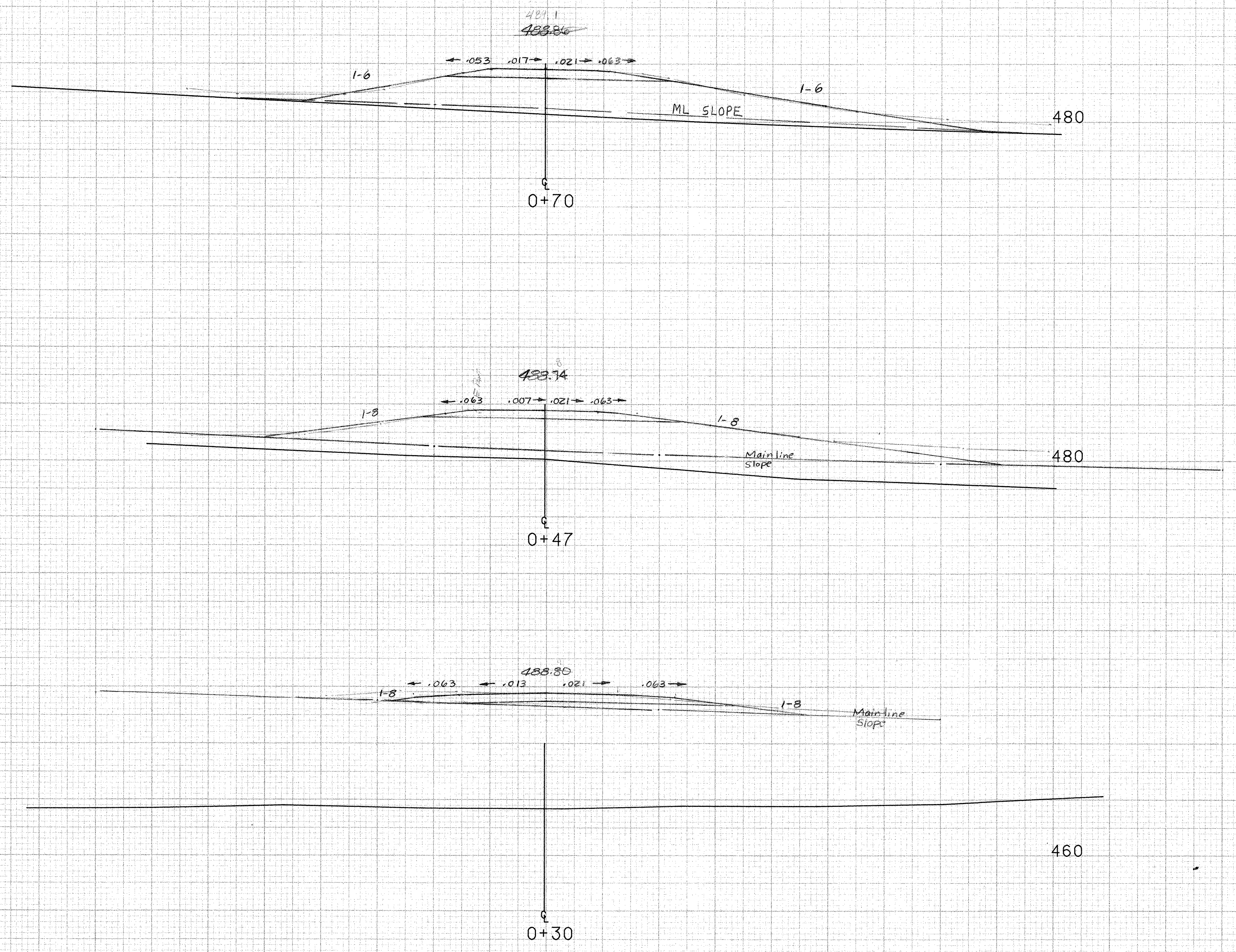
Shoulder and Roadway
Transition Diagram

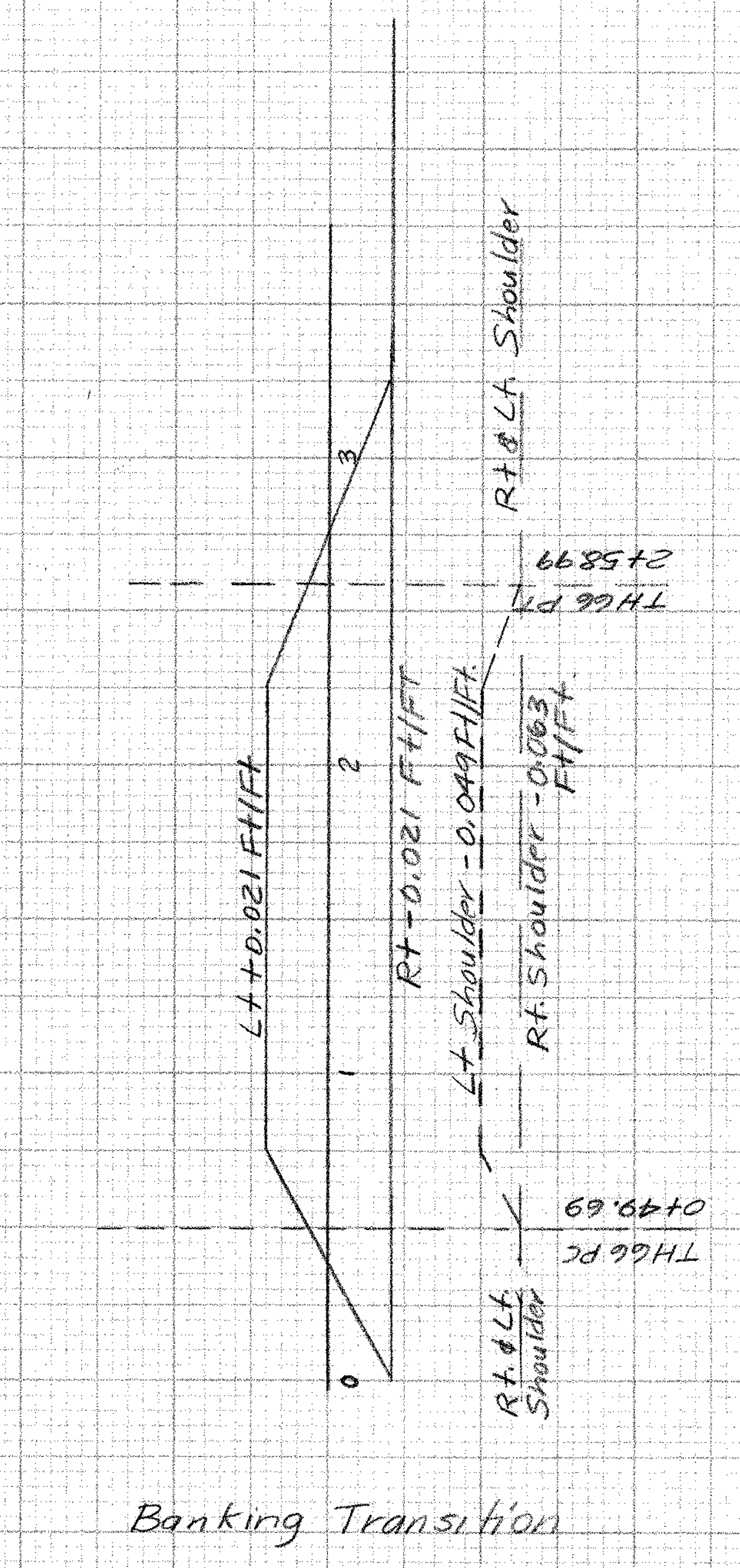
REV 23+85 ~ REV 24+25
DRILLING AND BLASTING
OF SOLID ROCK SUBGRADE

TH 12

SCALE 10 FEET

FROM STA. 24+00 TO STA. 25+48.62
PROJECT NAME MORETOWN
NO. RS EGCRS0167 (9) PLOTTED 10/07/86
SURVEYED BY FANTONI SEPT 86
SHEET 132 OF 243 SHEETS





Banking Transition

50

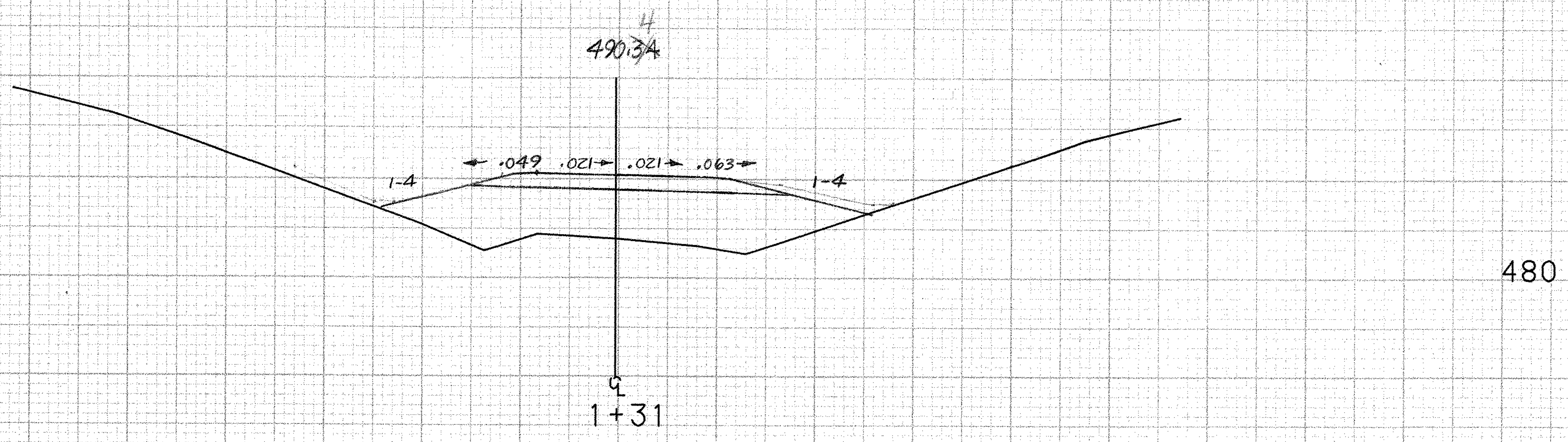
0

0 .050 Ft.

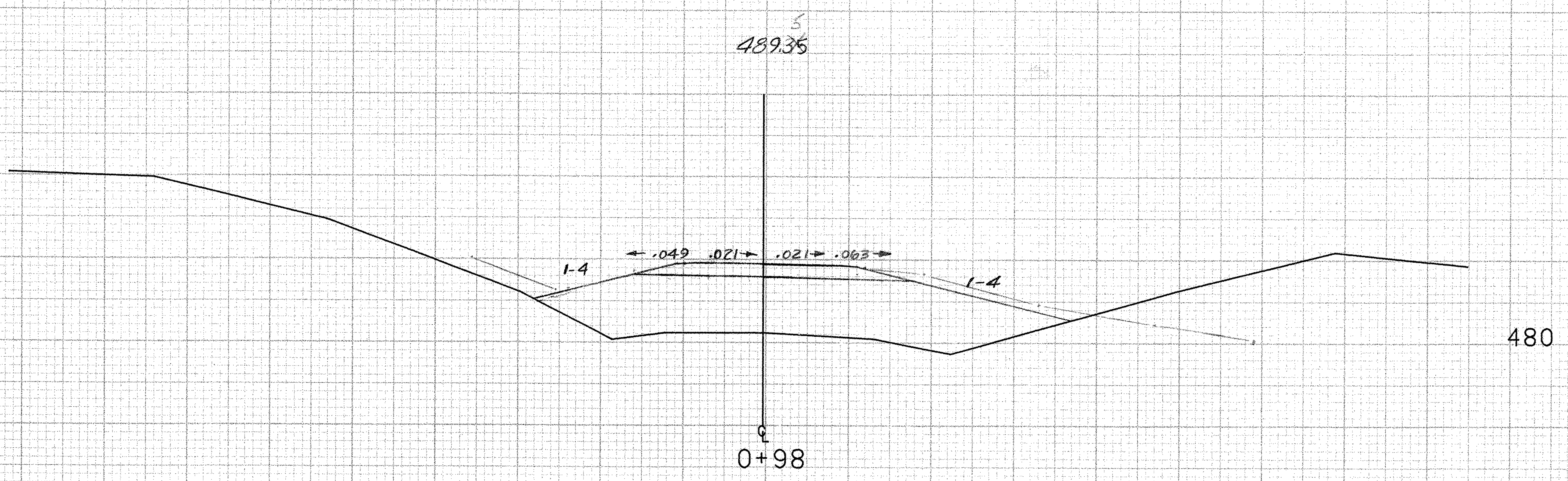
TH66

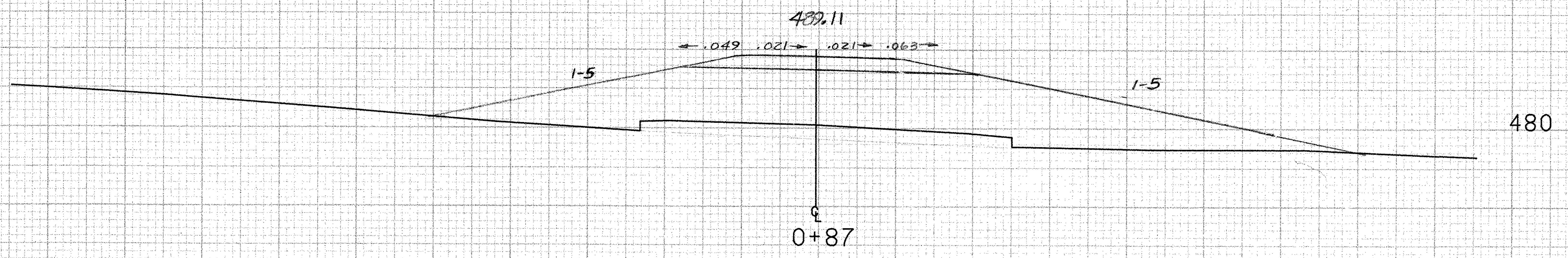
SCALE 10 FEET

FROM STA. 0+30 TO STA. 0+70
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 10/14/87
SURVEYED BY
SHEET 133 OF 243 SHEETS



1+15 Rt.
18" Cherry - Save

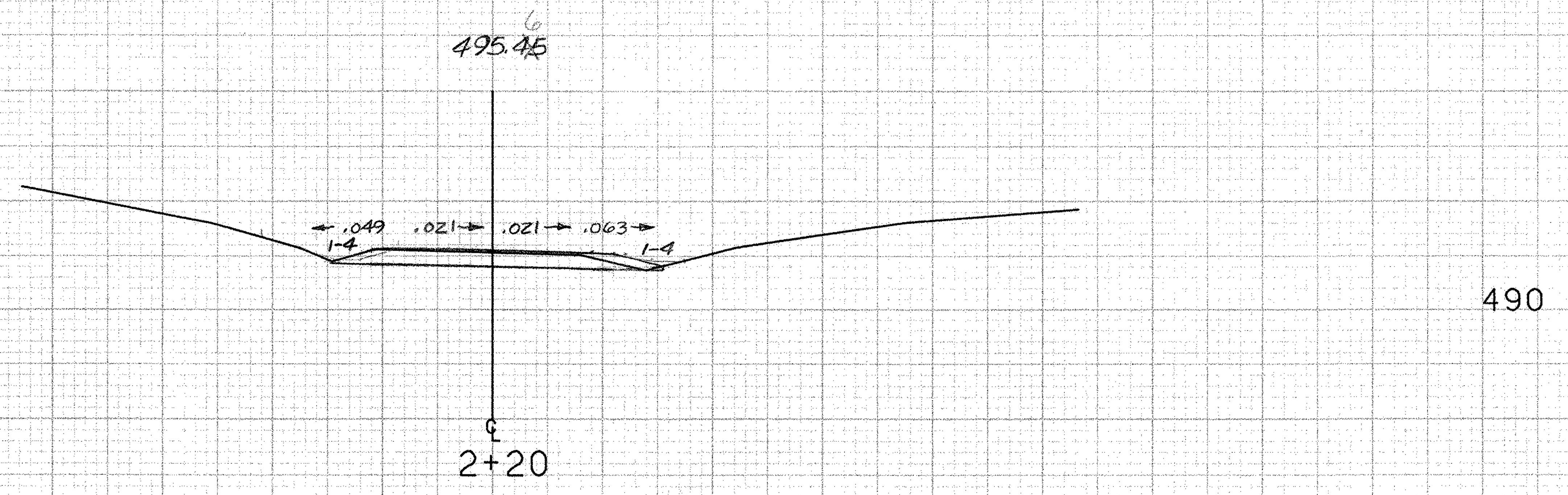


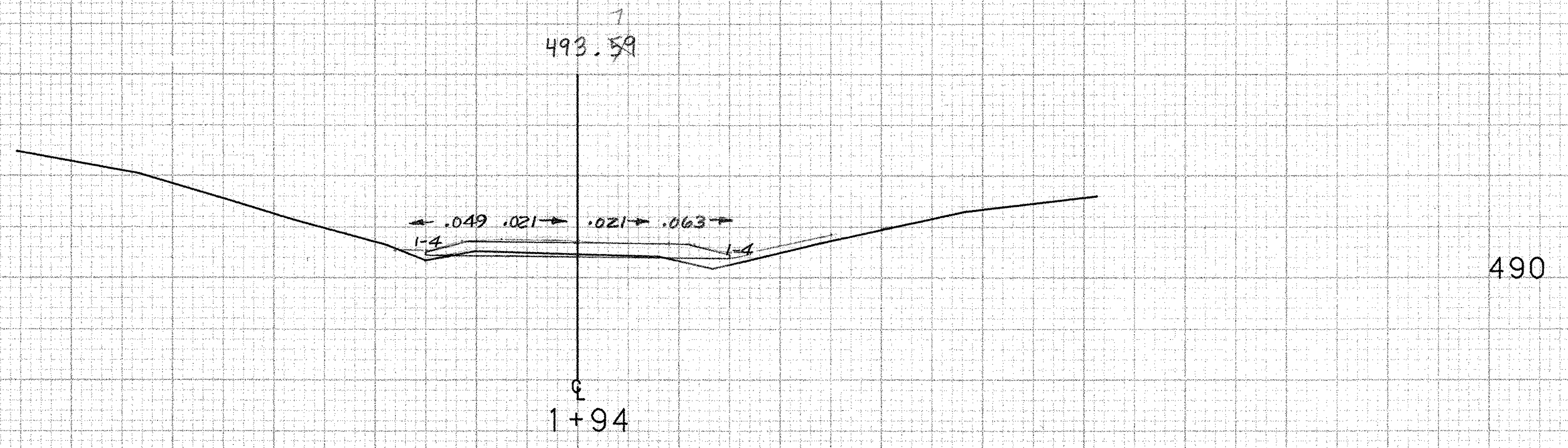


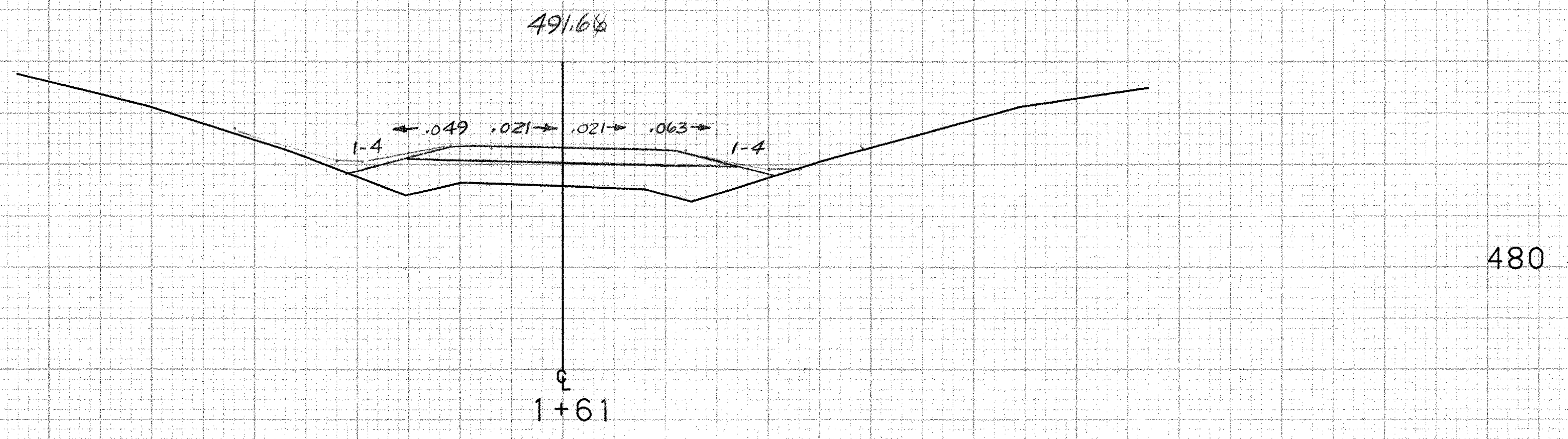
TH 66 0+87 ℄
EXISTING 15" CGMP - REMOVE

SCALE 10 FEET

TH66
FROM STA. 0+87 TO STA. 1+31
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 10/14/87
SURVEYED BY
SHEET 134 OF 243 SHEETS



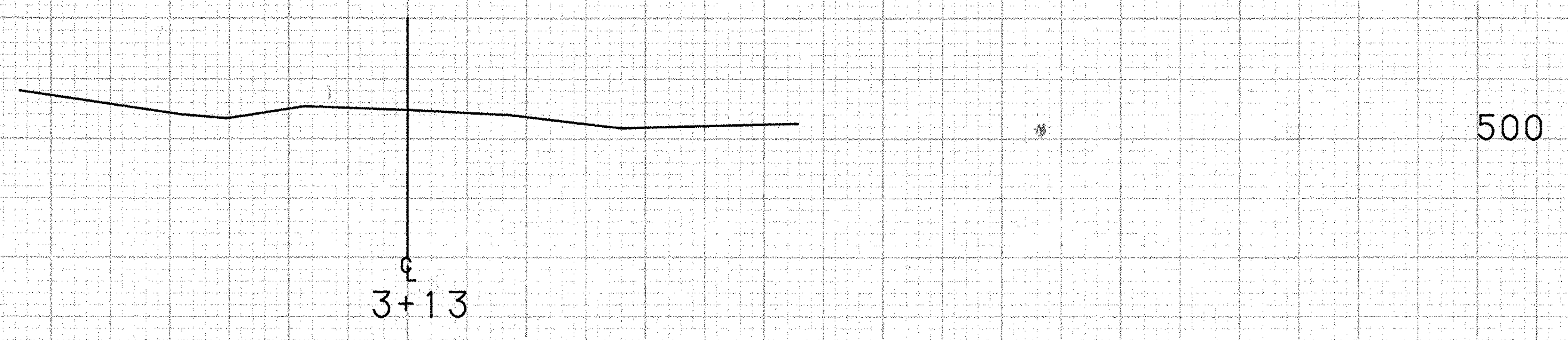


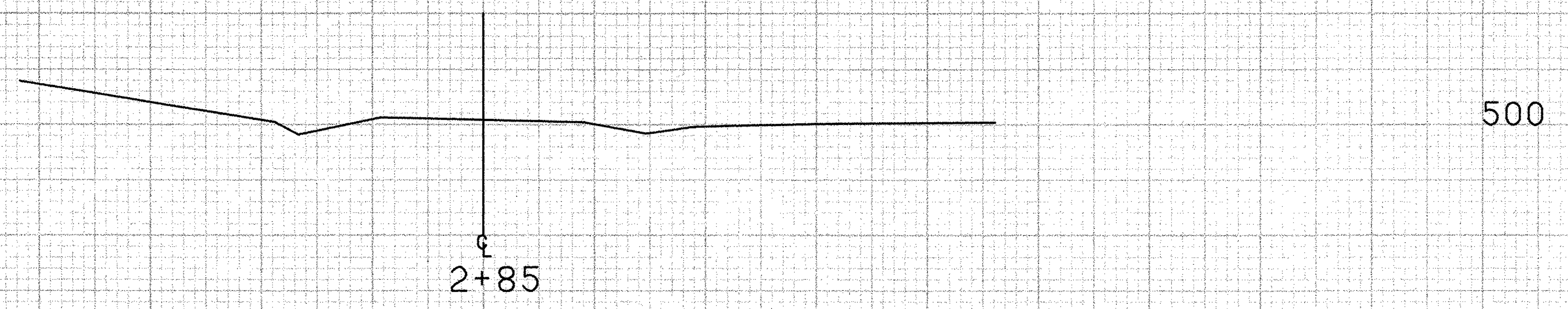


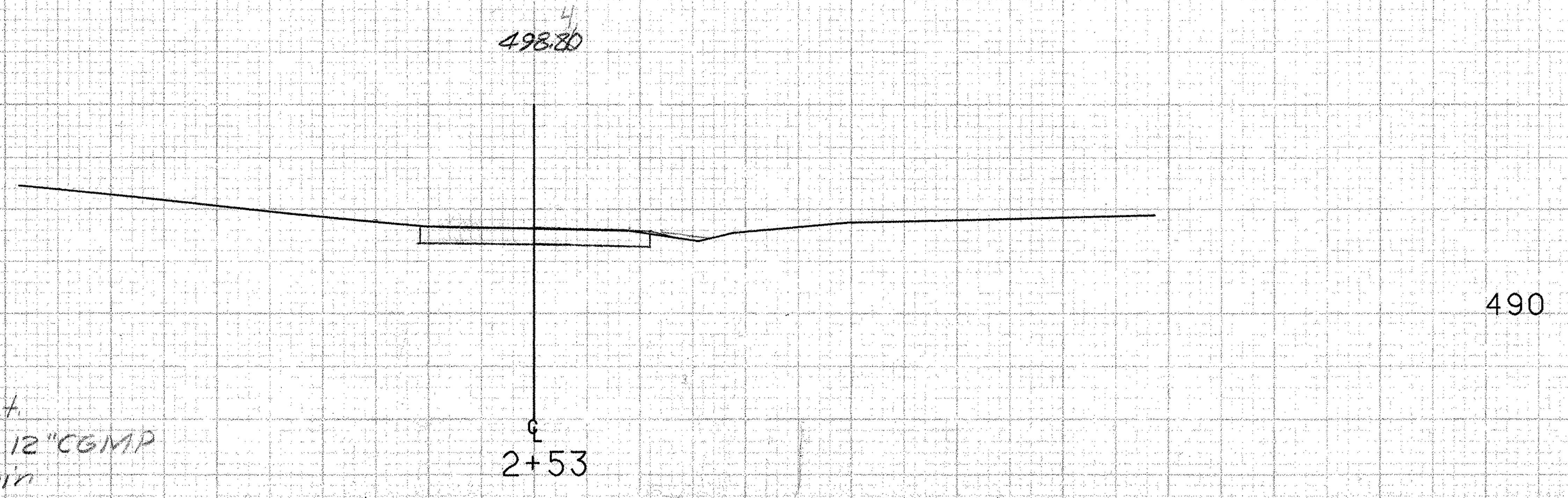
SCALE 10 FEET

TH 66

FROM STA. 1+61 TO STA. 2+20
PROJECT NAME MORETOWN
NO. RS EGC RS0167 (9) PLOTTED 10/14/87
SURVEYED BY
SHEET 135 OF 243 SHEETS







THl66 2+50 Lt.
Existing 12" CGMP
Retain

END TH 66 2+75
APPROACH CONSTRUCTION

TH 66

FROM STA. 2+53		TO STA. 3+13	
PROJECT NAME	MORETOWN		
NO. RS EGC	RS0167(9)		PLOTTED 10/14/87
SURVEYED BY			
SHEET 136 OF 243 SHEETS			

SCALE 10 FEET

SOIL PLACED WITHIN 5 FEET OF THE SOIL NAIL RETAINING WALL SHOULD BE LIGHTLY COMPACTED BY HAND COMPACTION METHODS TO THE SATISFACTION OF THE ENGINEER.

TYPICAL WALL SECTION

SCALE: ¼" = 1'-0"

TYPICAL WALL SECTION

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78ol32\Structures\sel32typ.1
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR302
SHEET 139 OF 243

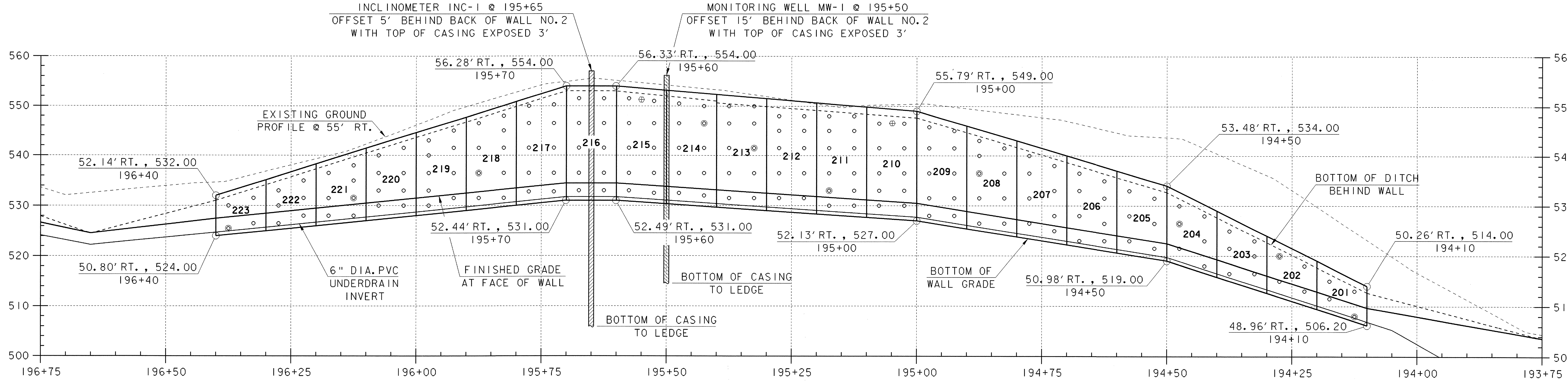
NOTE:

1. SEE ROADWAY SHEETS FOR ALL OTHER DRAINAGE.
2. SEE WALL TYPICAL SECTION SHEET BR301 FOR WALL OFFSETS.

WALL LAYOUT SHEET

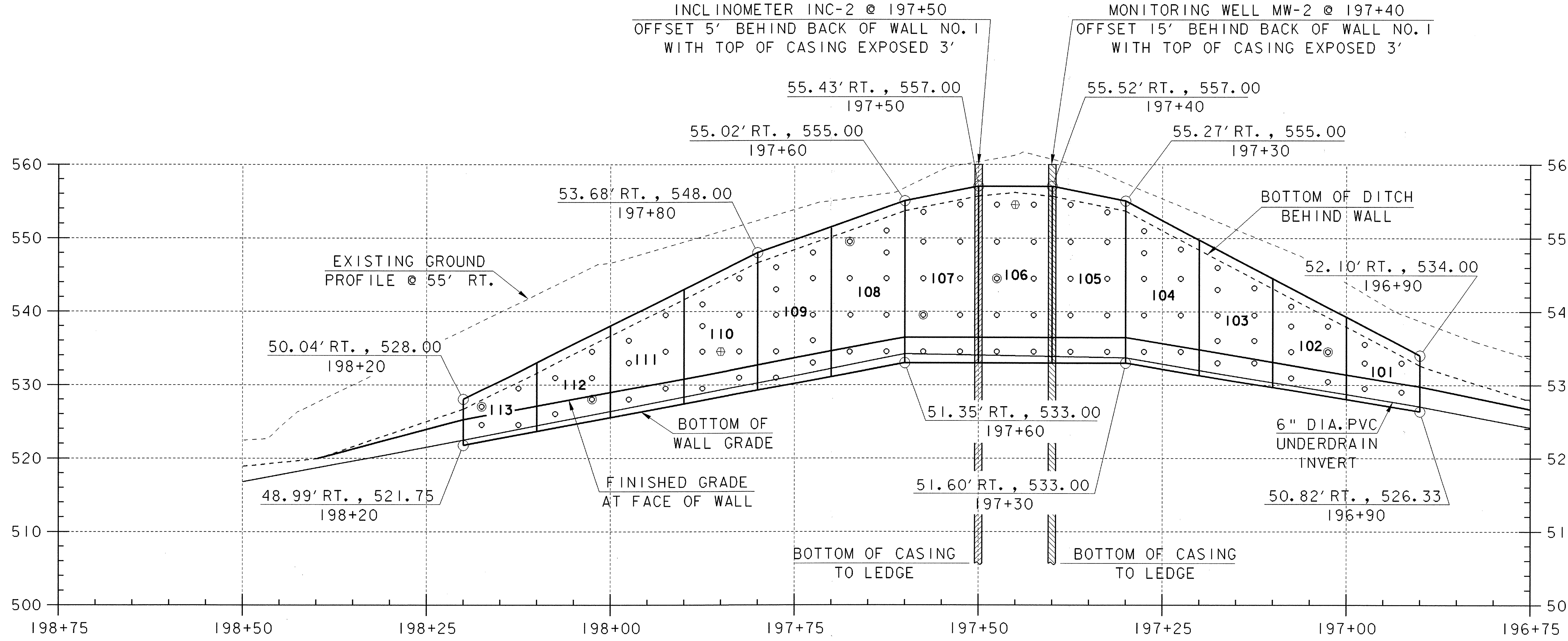
PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32wls.i	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR303	SHEET 140 OF 243



PROFILE WALL NO. 2

SCALE: HORIZ.: 1"=10'-0"
VERT.: 1"=10'-0"



PROFILE WALL NO. 1

SCALE: HORIZ.: 1"=10'-0"
VERT.: 1"=10'-0"

LEGEND

○ INDICATES SOIL NAIL

◎ INDICATES SOIL NAIL TO BE PROOF TESTED

⊕ INDICATES LOCATION OF VERIFICATION TEST OF SACRIFICIAL SOIL NAIL

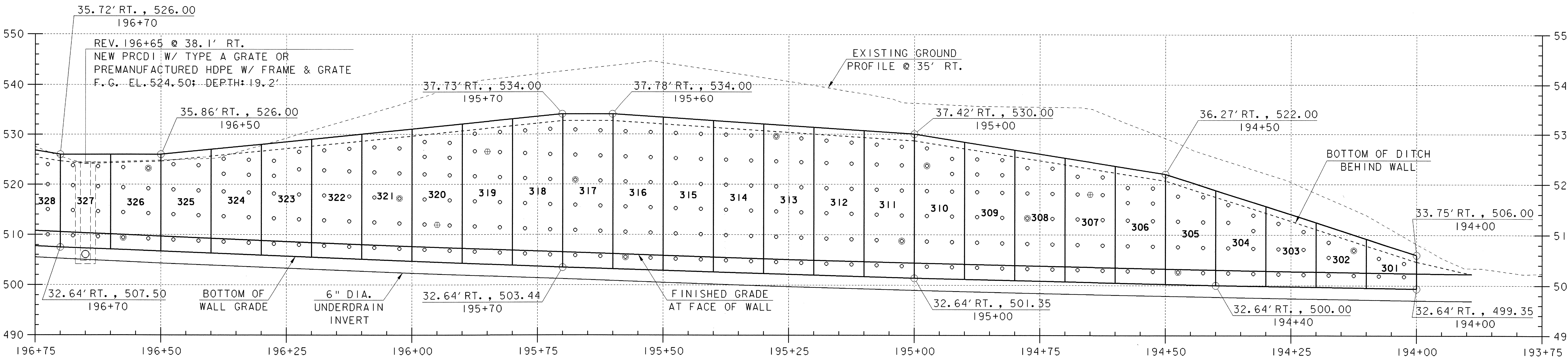
NOTES:

1. THE EXPANSION JOINT LOCATIONS SHALL BE LOCATED PRIOR TO THE CONSTRUCTION OF SOIL NAILS AND AT LEAST 12 IN. CLEAR DISTANCE SHALL BE PROVIDED BETWEEN THE JOINT AND THE NAILS.
2. IF REINFORCING BARS WITH CUT THREADS ARE USED FOR NAILS, THE NEXT LARGER SIZE BAR ABOVE THAT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST.
3. ALL DIMENSIONS AND ELEVATIONS ARE HORIZONTAL OR VERTICAL AND GIVEN TO THE FRONT FACE OF SHOTCRETE UNLESS OTHERWISE NOTED ON THE PLANS.

PROFILE WALL NOS. 1 & 2

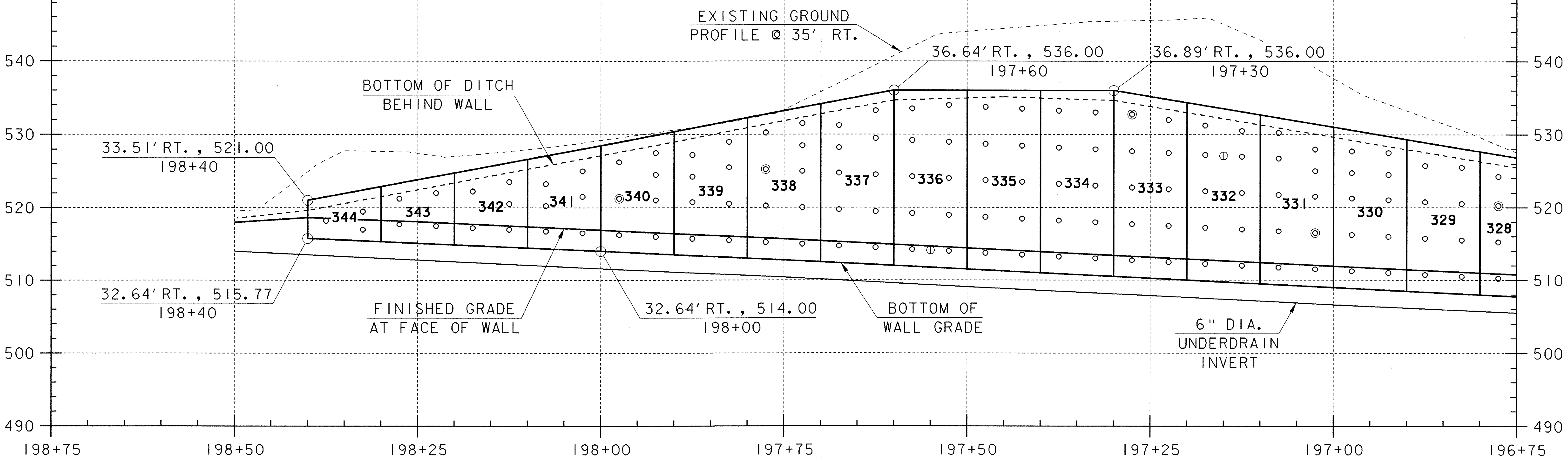
PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132pfl.l	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR304	SHEET 141A OF 243



PROFILE WALL NO. 3

SCALE: HORIZ.: 1"=10′-0"
VERT.: 1"=10′-0"



PROFILE WALL NO. 3

SCALE: HORIZ.: 1"=10′-0"
VERT.: 1"=10′-0"

LEGEND

○ INDICATES SOIL NAIL

◎ INDICATES SOIL NAIL TO BE PROOF TESTED

⊕ INDICATES LOCATION OF VERIFICATION TEST OF SACRIFICIAL SOIL NAIL

NOTES:

1. THE EXPANSION JOINT LOCATIONS SHALL BE LOCATED PRIOR TO THE CONSTRUCTION OF SOIL NAILS AND AT LEAST 12 IN. CLEAR DISTANCE SHALL BE PROVIDED BETWEEN THE JOINT AND THE NAILS.
2. IF REINFORCING BARS WITH CUT THREADS ARE USED FOR NAILS, THE NEXT LARGER SIZE BAR ABOVE THAT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST.
3. ALL DIMENSIONS AND ELEVATIONS ARE HORIZONTAL OR VERTICAL AND GIVEN TO THE FRONT FACE OF SHOTCRETE UNLESS OTHERWISE NOTED ON THE PLANS.

PROFILE WALL NO. 3

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

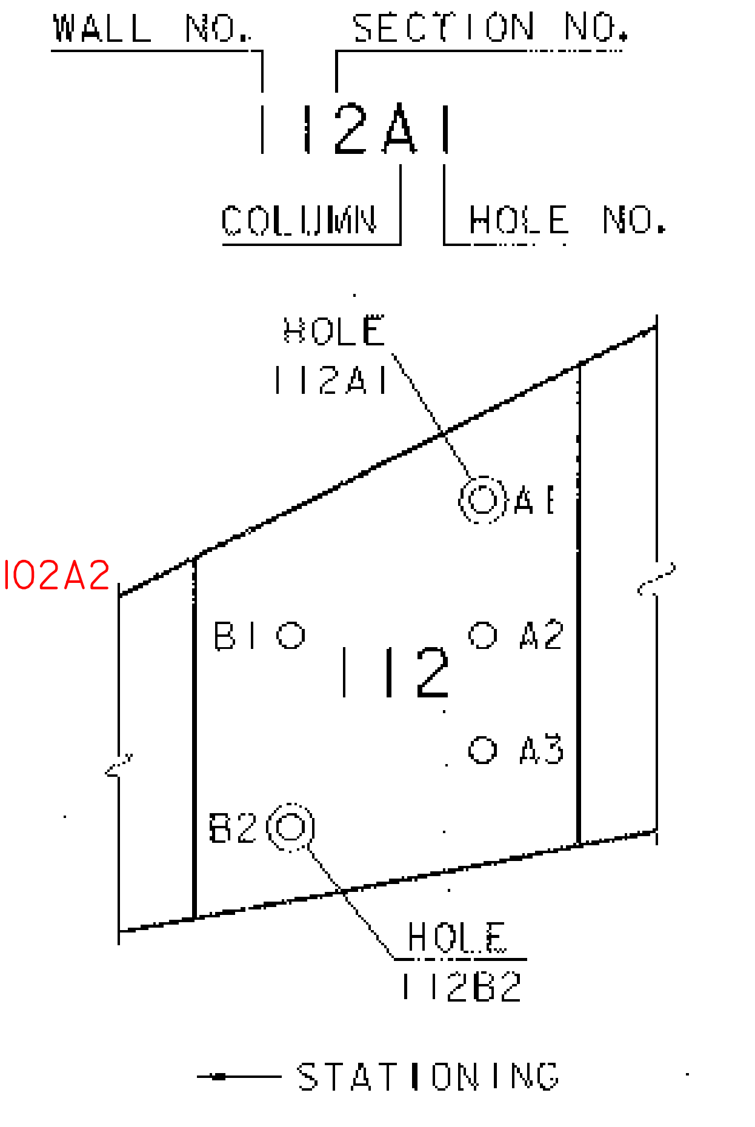
FILE NAME: \78el32\Structures\sel32pf2.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR305
PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 141B OF 243

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
101A1	196+92.5	533.00	30	#10
101A2	196+92.5	529.00	30	#8
101B1	196+97.5	~~535.50~~ 536.00	30	#8
101B2	196+97.5	533.00	30	#8
101B3	196+97.5	529.50	30	#8
102A1	197+02.5	~~538.00~~ 539.00	45	#10
102A2	197+02.5	534.50	45	X
102A3	197+02.5	530.50	45	#8
102B1	197+07.5	~~540.75~~ 591.17	45	#10
102B2	197+07.5	~~538.00~~ 539.00	45	#8
102B3	197+07.5	534.50	45	#8
102B4	197+07.5	531.00	45	#8
103A1	197+12.5	~~543.25~~ 544.00	45	#10
103A2	197+12.5	539.50	45	#8
103A3	197+12.5	536.00	45	#8
103A4	197+12.5	533.00	45	#10
103B1	197+17.5	546.00	45	#10
103B2	197+17.5	543.00	45	#8
103B3	197+17.5	539.50	45	#8
103B4	197+17.5	536.00	45	#8
103B5	197+17.5	533.00	45	#10
104A1	197+22.5	548.50	45	#10
104A2	197+22.5	544.50	45	#8
104A3	197+22.5	539.50	45	#8
104A4	197+22.5	534.50	45	#8
104B1	197+27.5	551.00	45	#10
104B2	197+27.5	~~548.00~~ 549.00	45	#8
104B3	197+27.5	544.50	45	#8
104B4	197+27.5	539.50	45	#8
104B5	197+27.5	534.50	45	#8
105A1	197+32.5	553.50	45	#10
105A2	197+32.5	549.50	45	#8
105A3	197+32.5	544.50	45	#8
105A4	197+32.5	539.50	45	#8
105A5	197+32.5	534.50	45	#8
105B1	197+37.5	554.50	45	#8
105B2	197+37.5	549.50	45	#10
105B3	~~197+37.5~~ 197+38.35	544.50	45	#8
105B4	197+37.5	539.50	45	#8
105B5	197+37.5	534.50	45	#8
106A1	197+42.5	554.50	45	#10
106A2	197+42.5	549.50	45	#8
106A3	197+42.5	544.50	45	#8
106A4	197+42.5	539.50	45	#8
106A5	197+42.5	534.50	45	#8
106B1	197+47.5	554.50	45	#10
106B2	197+47.5	549.50	45	#8
106B3	197+47.5	544.50	45	X
106B4	197+47.5	539.50	45	#8
106B5	197+47.5	534.50	45	#8
107A1	197+52.5	554.50	45	#10
107A2	197+52.5	549.50	45	#8
107A3	197+52.5	544.50	45	#8
107A4	197+52.5	539.50	45	#8
107A5	197+52.5	~~534.50~~ 535.00	45	X TESTED 106A5 VS 102A2
107B1	197+57.5	554.50	45	#10
107B2	197+57.5	549.50	45	#8
107B3	197+57.5	544.50	45	#8
107B4	197+57.5	539.50	45	X
107B5	197+57.5	~~534.50~~ 535.00	45	#8

2625

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
108A1	197+62.5	551.00	45	#10
108A2	197+62.5	~~548.00~~ 548.33	45	#8
108A3	197+62.5	544.50	45	#8
108A4	197+62.5	539.50	45	#8
108A5	197+62.5	534.50	45	#8
108B1	197+67.5	549.50	45	#10X
108B2	197+67.5	544.50	45	#8
108B3	197+67.5	539.50	45	#8
108B4	197+67.5	534.50	45	#8
109A1	197+72.5	548.00	45	#10
109A2	197+72.5	544.50	45	#8
109A3	197+72.5	539.50	45	#8
109A4	197+72.5	536.00	45	#8
109A5	197+72.5	533.00	45	#8
109B1	197+77.5	546.00	45	#10
109B2	197+77.5	543.00	45	#8
109B3	197+77.5	539.50	45	#8
109B4	197+77.5	534.50	45	#8
109B5	197+77.5	531.00	45	#8
110A1	197+82.5	544.50	45	#10
110A2	197+82.5	539.50	45	#8
110A3	197+82.5	534.50	45	#8
110A4	197+82.5	531.00	45	#8
110B1	197+87.5	541.00	45	#10
110B2	197+87.5	538.00	45	#8
110B3	197+87.5	534.50	45	#8
110B4	197+87.5	529.50	45	#8
111A1	197+92.5	539.50	45	#10
111A2	197+92.5	534.50	45	#8
111A3	197+92.5	529.50	45	#8
111B1	197+97.5	536.00	45	#10
111B2	197+97.5	533.00	45	#8
111B3	197+97.5	528.00	45	#8
112A1	198+02.5	534.50	20	#10
112A2	198+02.5	531.00	20	#8
112A3	198+02.5	528.00	20	X
112B1	198+07.5	~~531.00~~ 532.00	20	#10
112B2	198+07.	526.00	20	#8
113A1	198+12.5	529.50	20	#10
113A2	198+12.5	524.50	20	#8
113B1	198+17.5	527.00	20	#10X
113B2	198+17.5	524.50	20	#8

1665



HOLE NOMENCLATURE

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
201A1	194+12.5	513.00	35	
201A2	194+12.5	508.00	35	X
201B1	194+17.5	515.00	35	
201B2	194+17.5	511.50	35	
202A1	194+22.5	518.00	35	
202A2	194+22.5	513.00	35	
202B1	194+27.5	520.00	35	X
202B2	194+27.5	515.00	35	
203A1	194+32.5	523.00	35	
203A2	194+32.5	520.00	35	
203A3	194+32.5	516.50	35	
203B1	194+37.5	525.00	35	
203B2	194+37.5	521.50	35	
203B3	194+37.5	516.50	35	
204A1	194+42.5	528.00	35	
204A2	194+42.5	523.00	35	
204A3	194+42.5	518.00	35	
204B1	194+47.5	530.00	35	
204B2	194+47.5	526.50	35	X
204B3	194+47.5	521.50	35	
205A1	194+52.5	531.50	55	
205A2	194+52.5	526.50	55	
205A3	194+52.5	521.50	55	
205B1	194+57.5	533.00	55	
205B2	194+57.5	528.00	55	
205B3	194+57.5	523.00	55	
206A1	194+62.5	535.00	55	#10
206A2	194+62.5	531.50	55	
206A3	194+62.5	526.50	55	
206A4	194+62.5	523.00	55	
206B1	194+67.5	536.50	55	
206B2	194+67.5	533.00	55	
206B3	194+67.5	528.00	55	
206B4	194+67.5	523.00	55	
207A1	194+72.5	538.00	55	
207A2	194+72.5	533.00	55	
207A3	194+72.5	528.00	55	
207A4	194+72.5	525.00	55	
207B1	194+77.5	540.00	55	
207B2	194+77.5	536.50	55	
207B3	194+77.5	531.50	55	
207B4	194+77.5	526.50	55	
208A1	194+82.5	541.50	55	
208A2	194+82.5	536.50	55	
208A3	194+82.5	531.50	55	
208A4	194+82.5	526.50	55	
208B1	194+87.5	~~543.00~~ 544.00	55	
208B2	194+87.5	540.00	55	
208B3	194+87.5	536.50	55	X
208B4	194+87.5	531.50	55	
208B5	194+87.5	526.50	55	
209A1	194+92.5	545.00	55	
209A2	194+92.5	541.50	55	
209A3	194+92.5	536.50	55	
209A4	194+92.5	531.50	55	
209A5	194+92.5	528.00	55	
209B1	194+97.5	545.75	55	
209B2	194+97.5	541.50	55	
209B3	194+97.5	536.50	55	
209B4	194+97.5	531.50	55	
209B5	194+97.5	528.00	55	

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NOTE:
ELEVATIONS GIVEN ARE AT CENTER OF NAIL AT FRONT FACE OF SHOTCRETE.

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
210A1	195+02.5	546.50	55	#10
210A2	195+02.5	541.50	55	
210A3	195+02.5	536.50	55	
210A4	195+02.5	533.00	55	
210A5	195+02.5	530.00	55	
210B1	195+07.5	546.50	55	
210B2	195+07.5	541.50	55	
210B3	195+07.5	536.50	55	
210B4	195+07.5	533.00	55	
210B5	195+07.5	530.00	55	
211A1	195+12.5	~~548.00~~ 548.77	55	
211A2	195+12.5	545.00	55	
211A3	195+12.5	541.50	55	
211A4	195+12.5	536.50	55	
211A5	195+12.5	533.00	55	
211A6	195+12.5	530.00	55	
211B1	195+17.5	~~548.00~~ 549.00	55	
211B2	195+17.5	545.00	55	
211B3	195+17.5	541.50	55	
211B4	195+17.5	536.50	55	
211B5	195+17.5	533.00	55	X
211B6	195+17.5	530.00	55	
212A1	195+22.5	~~548.00~~ 549.50	55	
212A2	195+22.5	545.00	55	
212A3	195+22.5	541.50	55	
212A4	195+22.5	536.50	55	
212A5	195+22.5	531.50	55	
212B1	195+27.5	548.00	55	
212B2	195+27.5	545.00	55	
212B3	195+27.5	541.50	55	
212B4	195+27.5	536.50	55	
212B5	195+27.5	531.50	55	
213A1	195+32.5	550.00	55	
213A2	195+32.5	546.50	55	
213A3	195+32.5	541.50	55	X
213A4	195+32.5	536.50	55	
213A5	195+32.5	531.50	55	
213B1	195+37.5	550.00	55	
213B2	195+37.5	546.50	55	
213B3	195+37.5	541.50	55	
213B4	195+37.5	536.50	55	
213B5	195+37.5	531.50	55	
214A1	195+42.5	550.00	55	
214A2	195+42.5	546.50	55	X
214A3	195+42.5	541.50	55	
214A4	195+42.5	536.50	55	
214A5	195+42.5	532.00	55	
214B1	195+47.5	550.50	55	
214B2	195+47.5	546.50	55	
214B3	195+47.5	541.50	55	
214B4	195+47.5	536.50	55	
214B5	195+47.5	532.50	55	
215A1	195+52.5	551.00	55	
215A2	195+52.5	546.50	55	
215A3	195+52.5	541.50	55	
215A4	195+52.5	536.50	55	
215A5	195+52.5	532.50	55	
215B1	195+57.5	551.50	55	
215B2	195+57.5	546.50	55	
215B3	195+57.5	541.50	55	
215B4	195+57.5	536.50	55	
215B5	195+57.5	533.00	55	
216A1	195+62.5	551.50	55	
216A2	195+62.5	546.50	55	
216A3	195+62.5	541.50	55	
216A4	195+62.5	536.50	55	
216A5	195+62.5	533.00	55	

3685

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
216B1	195+67.5	551.50	55	#10
216B2	195+67.5	546.50	55	
216B3	195+67.5	541.50	55	
216B4	195+67.5	536.50	55	
216B5	195+67.5	533.00	55	
217A1	195+72.5	550.25	55	
217A2	195+72.5	546.50	55	
217A3	195+72.5	541.50	55	
217A4	195+72.5	536.50	55	
217A5	195+72.5	532.75	55	
217B1	195+77.5	~~550.00~~ 495.00	55	
217B2	195+77.5	546.50	55	
217B3	195+77.5	541.50	55	
217B4	195+77.5	536.50	55	
217B5	195+77.5	532.75	55	
218A1	195+82.5	548.00	55	
218A2	195+82.5	545.00	55	
218A3	195+82.5	541.50	55	
218A4	195+82.5	536.50	55	
218A5	195+82.5	531.50	41.5 55	
218B1	195+87.5	546.50	55	
218B2	195+87.5	541.50	55	
LEDGE 45 — 218B3	195+87.5	536.50	52.83 55	X
218B4	195+87.5	531.50	44 55	
219A1	195+92.5	545.00	55	
219A2	195+92.5	541.50	55	
219A3	195+92.5	536.50	51.29 55	
LEDGE 43 — 219A4	195+92.5	531.50	42 55	
219B1	195+97.5	543.00	55	
219B2	195+97.5	540.00	55	
LEDGE 45 — 219B3	195+97.5	536.50	50 55	
219B4	195+97.5	533.00	55 55	
219B5	195+97.5	530.00	34 55	
220A1	196+02.5	541.50	51.5 55	
220A2	196+02.5	536.50	55	
220A3	196+02.5	533.00	55 55	
220A4	196+02.5	530.00	37 55	
220B1	196+07.5	540.00	52 55	
220B2	196+07.5	536.50	55	
220B3	196+07.5	533.00	55 55	
220B4	196+07.5	530.00	35 55	
221A1	196+12.5	~~538.00~~ 538.50	55	
221A2	196+12.5	535.00	55	
221A3	196+12.5	531.50	52 55	X
221A4	196+12.5	528.00	52 55	
221B1	196+17.5	536.50	55	
221B2	196+17.5	531.50	55 55	
221B3	196+17.5	528.00	40 55	
222A1	196+22.5	535.00	30 30	
222A2	196+22.5	531.50	30 30	
222A3	196+22.5	528.00	30 30	
222B1	196+27.5	533.00	30 30	
222B2	196+27.5	530.00	30 30	
222B3	196+27.5	526.50	30 30	
223A1	196+32.5	531.50	30 30	
223A2	196+32.5	526.50	30 30	
223B1	196+37.5	530.00	30 30	
223B2	196+37.5	525.50	30 30	X

2933.5

HOLE STATIONS & ELEVATIONS (I)

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32sel.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR306
SHEET 142A OF 243

HOLE STATIONS & ELEVATIONS (2)

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
301A1	194+02.5	504.35	35	#8
301A2	194+02.5	501.75	~~35~~ 25	
301B1	194+07.5	505.34	35	
301B2	194+07.5	501.84	~~35~~ 25	
302A1	194+12.5	506.94	35	X
302A2	194+12.5	501.94	~~35~~ 25	
302B1	194+17.5	508.53	35	
302B2	194+17.5	505.53	35	
302B3	194+17.5	502.03	~~35~~ 25	
303A1	194+22.5	510.63	35	
303A2	194+22.5	507.13	35	
303A3	194+22.5	502.13	~~35~~ 25	
303B1	194+27.5	512.22	35	
303B2	194+27.5	507.22	35	
303B3	194+27.5	502.22	~~35~~ 25	
304A1	194+32.5	513.81	35	
304A2	194+32.5	510.81	35	
304A3	194+32.5	507.31	35	
304A4	194+32.5	502.31	~~35~~ 25	
304B1	194+37.5	515.91	35	
304B2	194+37.5	512.41	35	
304B3	194+37.5	507.41	35	
304B4	194+37.5	502.41	~~35~~ 25	
305A1	194+42.5	517.50	35	
305A2	194+42.5	512.50	35	
305A3	194+42.5	507.50	35	
305A4	194+42.5	502.50	~~35~~ 25	
305B1	194+47.5	517.60	35	
305B2	194+47.5	512.60	35	
305B3	194+47.5	507.60	35	
305B4	194+47.5	502.60	~~35~~ 25	X
306A1	194+52.5	519.21	50	#10
306A2	194+52.5	516.21	50	#10
306A3	194+52.5	512.71	50	#10
306A4	194+52.5	507.71	~~50~~ 45	
306A5	194+52.5	502.71	~~50~~ 35	
306B1	194+57.5	519.31	50	#10
306B2	194+57.5	516.31	50	#10
306B3	194+57.5	512.81	50	#10
306B4	194+57.5	507.81	~~50~~ 45	
306B5	194+57.5	502.81	~~50~~ 35	
307A1	194+62.5	521.42	50	#10
307A2	194+62.5	517.92	50	#10
307A3	194+62.5	512.92	50	#10
307A4	194+62.5	507.92	~~50~~ 45	
307A5	194+62.5	502.92	~~50~~ 35	
307B1	194+67.5	521.52	50	#10
307B2	194+67.5	518.02	50	#10
307B3	194+67.5	513.02	50	#10
307B4	194+67.5	508.02	~~50~~ 45	
307B5	194+67.5	503.02	~~50~~ 35	
308A1	194+72.5	523.13	50	#10
308A2	194+72.5	518.13	50	#10
308A3	194+72.5	513.13	50	#10
308A4	194+72.5	508.13	~~50~~ 45	
308A5	194+72.5	503.13	~~50~~ 35	
308B1	194+77.5	523.23	50	#10
308B2	194+77.5	518.23	50	#10
308B3	194+77.5	513.23	50	#10 X
308B4	194+77.5	508.23	~~50~~ 45	
308B5	194+77.5	503.23	~~50~~ 35	
309A1	194+82.5	524.83	50	#10
309A2	194+82.5	521.83	50	#10
309A3	194+82.5	518.33	50	#10
309A4	194+82.5	513.33	50	#10
309A5	194+82.5	508.33	~~50~~ 45	
309A6	194+82.5	503.33	~~50~~ 35	

3080

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
309B1	194+87.5	524.94	50	#10
309B2	194+87.5	521.94	50	#10
309B3	194+87.5	518.44	50	#10
309B4	194+87.5	513.44	50	#10
309B5	194+87.5	508.44	~~50~~ 45	#8
309B6	194+87.5	503.44	~~50~~ 35	#8
310A1	194+92.5	525.04	50	#10
310A2	194+92.5	522.04	50	#10
310A3	194+92.5	518.54	50	#10
310A4	194+92.5	513.54	50	#10
310A5	194+92.5	508.54	~~50~~ 45	#8
310A6	194+92.5	503.54	~~50~~ 35	#8
310B1	194+97.5	527.15	50	#10
310B2	194+97.5	523.65	50	#10 X
310B3	194+97.5	518.65	50	#10
310B4	194+97.5	513.65	50	#10
310B5	194+97.5	508.65	~~50~~ 45	#8
310B6	194+97.5	503.65	~~50~~ 35	#8
311A1	195+02.5	527.50	50	#10
311A2	195+02.5	523.75	50	#10
311A3	195+02.5	518.75	50	#10
311A4	195+02.5	513.75	50	#10
311A5	195+02.5	508.75	~~50~~ 45	#8 X
311A6	195+02.5	503.75	~~50~~ 35	#8
311B1	195+07.5	527.91	50	#10
311B2	195+07.5	523.91	50	#10
311B3	195+07.5	518.91	50	#10
311B4	195+07.5	513.91	50	#10
311B5	195+07.5	508.91	~~50~~ 45	#8
311B6	195+07.5	503.91	~~50~~ 35	#8
312A1	195+12.5	528.32	50	#10
312A2	195+12.5	524.07	50	#10
312A3	195+12.5	519.07	50	#10
312A4	195+12.5	514.07	50	#10
312A5	195+12.5	509.07	~~50~~ 45	#8
312A6	195+12.5	504.07	~~50~~ 35	#8
312B1	195+17.5	528.73	50	#10
312B2	195+17.5	524.23	50	#10
312B3	195+17.5	519.23	50	#10
312B4	195+17.5	514.23	50	#10
312B5	195+17.5	509.23	~~50~~ 45	#8
312B6	195+17.5	504.23	~~50~~ 35	#8
313A1	195+22.5	529.14	50	#10
313A2	195+22.5	524.39	50	#10
313A3	195+22.5	519.39	50	#10
313A4	195+22.5	514.39	50	#10
313A5	195+22.5	509.39	~~50~~ 45	#8
313A6	195+22.5	504.39	~~50~~ 35	#8
313B1	195+27.5	529.55	50	#10 X
313B2	195+27.5	524.55	50	#10
313B3	195+27.5	519.55	50	#10
313B4	195+27.5	514.55	50	#10
313B5	195+27.5	509.55	~~50~~ 45	#8
313B6	195+27.5	504.55	~~50~~ 35	#8
314A1	195+32.5	529.71	50	#10
314A2	195+32.5	524.71	50	#10
314A3	195+32.5	519.71	50	#10
314A4	195+32.5	514.71	50	#10
314A5	195+32.5	509.71	~~50~~ 45	#8
314A6	195+32.5	504.71	~~50~~ 35	#8
314B1	195+37.5	529.88	50	#10
314B2	195+37.5	524.88	50	#10
314B3	195+37.5	519.88	50	#10
314B4	195+37.5	514.88	50	#10
314B5	195+37.5	509.88	~~50~~ 45	#8
314B6	195+37.5	504.88	~~50~~ 35	#8

3080

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
315A1	195+42.5	530.04	50	
315A2	195+42.5	525.04	50	
315A3	195+42.5	520.04	50	
315A4	195+42.5	515.04	50	
315A5	195+42.5	510.04	50 45	#8
315A6	195+42.5	505.04	45 ~~50~~ 35	#8
315B1	195+47.5	530.20	50	
315B2	195+47.5	525.20	50	
315B3	195+47.5	505.20	50	
315B4	195+47.5	515.20	50	
315B5	195+47.5	510.20	45 ~~50~~ 45	#8
315B6	195+47.5	505.20	~~50~~ 35	#8
316A1	195+52.5	530.36	50 50	#10
316A2	195+52.5	525.36	50 50	#10
316A3	195+52.5	520.36	50 50	#10
316A4	195+52.5	515.36	50 50	#10
316A5	195+52.5	510.36	45 ~~50~~ 45	#8
316A6	195+52.5	505.36	35 ~~50~~ 35	#8
316B1	195+57.5	530.52	50 50	#10
316B2	195+57.5	525.52	50 50	#10
316B3	195+57.5	520.52	50 50	#10
316B4	195+57.5	515.52	50 50	#10
316B5	195+57.5	510.52	45 ~~50~~ 45	#8
316B6	195+57.5	505.52	25 ~~50~~ 35	#8 X
317A1	195+62.5	530.68	50 50	#10
317A2	195+62.5	525.68	50 50	#10
317A3	195+62.5	520.68	45 50	#10
317A4	195+62.5	515.68	? 50	#10
317A5	195+62.5	510.68	45 ~~50~~ 45	#8
317A6	195+62.5	505.68	20 ~~50~~ 35	#8
317B1	195+67.5	530.84	50 50	#10
317B2	195+67.5	525.84	50 50	#10
317B3	195+67.5	520.84	50 50	#10 X
317B4	195+67.5	515.84	? 50	#10
317B5	195+67.5	510.84	43 ~~50~~ 45	#8
317B6	195+67.5	505.84	17 ~~50~~ 35	#8
318A1	195+72.5	531.00	50 50	#10
318A2	195+72.5	526.00	50 50	#10
318A3	195+72.5	521.00	51 50	#10
318A4	195+72.5	516.00	36 50	#10
318A5	195+72.5	511.00	40 50 45	#8
318A6	195+72.5	506.00	15 ~~50~~ 35	#8
318B1	195+77.5	530.70	50 50	#10
318B2	195+77.5	526.20	50 50	#10
318B3	195+77.5	521.20	51 50	#10
318B4	195+77.5	516.20	51 50	#10
318B5	195+77.5	511.20	45 ~~50~~ 45	#8
318B6	195+77.5	506.20	15 ~~50~~ 35	#8
319A1	195+82.5	530.40	50 50	#10
319A2	195+82.5	526.40	47.5 50	#10
319A3	195+82.5	521.40	51 50	#10
319A4	195+82.5	516.40	38 50	#10
319A5	195+82.5	511.40	25 ~~50~~ 45	#8
319A6	195+82.5	506.40	15 ~~50~~ 35	#8
319B1	195+87.5	530.10	50 50	#10
319B2	195+87.5	526.60	50 50	#10
319B3	195+87.5	521.60	40 50	#10 #10
319B4	195+87.5	516.60	29 50	#10
319B5	195+87.5	511.60	18 ~~50~~ 45	#8
319B6	195+87.5	506.60	15 ~~50~~ 35	#8
320A1	195+92.5	528.30	49 50	#10
320A2	195+92.5	525.30	50 50	#10
320A3	195+92.5	521.80	45 50	#10
320A4	195+92.5	516.80	29 50	#10
320A5	195+92.5	511.80	15 ~~50~~ 45	#8
320A6	195+92.5	506.80	15 ~~50~~ 35	#8

3080

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
320B1	195+97.5	528.50	50 50	
320B2	195+97.5	525.50	45 50	
320B3	195+97.5	522.00	50	
320B4	195+97.5	517.00	27 50	
320B5	195+97.5	512.00	15 ~~50~~ 45	#8
320B6	195+97.5	507.00	15 ~~50~~ 35	#8
321A1	196+02.5	527.20	50 50	
321A2	196+02.5	522.20	38 50	
321A3	196+02.5	517.20	21 50	X
321A4	196+02.5	512.20	20 ~~50~~ 45	#8
321A5	196+02.5	507.20	15 ~~50~~ 35	#8
321B1	196+07.5	527.40	50 50	
321B2	196+07.5	522.40	26 50	
321B3	196+07.5	517.40	21 50	
321B4	196+07.5	512.40	20 ~~50~~ 45	#8
321B5	196+07.5	507.40	15 ~~50~~ 35	#8
322A1	196+12.5	527.10	30 50	
322A2	196+12.5	522.60	31 50	
322A3	196+12.5	517.60	25 50	
322A4	196+12.5	512.60	30 ~~50~~ 45	#8
322A5	196+12.5	507.60	15 ~~50~~ 35	#8
322B1	196+17.5	526.80	31 50	
322B2	196+17.5	522.80	30 50	
322B3	196+17.5	517.80	30 50	
322B4	196+17.5	512.80	30 ~~50~~ 45	#8
322B5	196+17.5	507.80	15 ~~50~~ 35	#8
323A1	196+22.5	526.50	30 30	#8
323A2	196+22.5	522.00	31 30	
323A3	196+22.5	518.00	25 30	
323A4	196+22.5	513.00	30 30	
323A5	196+22.5	508.00	15 ~~30~~ 20	
323B1	196+27.5	524.70	31 30	
323B2	196+27.5	521.70	30 30	
323B3	196+27.5	518.20	30 30	
323B4	196+27.5	513.20	30 30	
323B5	196+27.5	508.20	15 ~~30~~ 20	
324A1	196+32.5	524.90	30 30	
324A2	196+32.5	521.90	30 30	
324A3	196+32.5	518.40	30 30	
324A4	196+32.5	513.40	30 30	
324A5	196+32.5	508.40	15 ~~30~~ 20	
324B1	196+37.5	525.10	30 30	
324B2	196+37.5	522.10	30 30	
324B3	196+37.5	518.60	30 30	
324B4	196+37.5	513.60	30 30	
324B5	196+37.5	508.60	15 ~~30~~ 20	
325A1	196+42.5	522.80	30 30	
325A2	196+42.5	518.80	30 30	
325A3	196+42.5	513.80	30 30	
325A4	196+42.5	508.80	20 ~~30~~ 20	
325B1	196+47.5	523.00	30 30	
325B2	196+47.5	519.00	30 30	
325B3	196+47.5	514.00	30 30	
325B4	196+47.5	509.00	20 ~~30~~ 20	
326A1	196+52.5	523.20	30 30	X
326A2	196+52.5	519.20	30 30	
326A3	196+52.5	514.20	30 30	
326A4	196+52.5	509.20	20 ~~30~~ 20	
326B1	196+57.5	523.40	30 30	
326B2	196+57.5	519.40	30 30	
326B3	196+57.5	514.40	30 30	
326B4	196+57.5	509.40	20 ~~30~~ 20	X

2200

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
327A1	196+62.5	523.60	30 30	
327A2	196+62.5	519.60	30 30	
327A3	196+62.5	514.60	30 30	
327A4	196+62.5	509.60	20 ~~30~~ 20	
327B1	196+67.5	523.80	30 30	
327B2	196+67.5	519.80	30 30	
327B3	196+67.5	514.80	30 30	
327B4	196+67.5	509.80	20 ~~30~~ 20	
328A1	196+72.5	524.00	30 30	
328A2	196+72.5	520.00	30 30	
328A3	196+72.5	515.00	30 30	
328A4	196+72.5	510.00	20 ~~30~~ 20	
328B1	196+77.5	524.25	30 30	
328B2	196+77.5	520.25	30 30	X
328B3	196+77.5	515.25	30 30	
328B4	196+77.5	510.25	20 ~~30~~ 20	
329A1	196+82.5	525.50	30 30	
329A2	196+82.5	520.50	30 30	
329A3	196+82.5	515.50	30 30	
329A4	196+82.5	510.50	20 ~~30~~ 20	
329B1	196+87.5	525.75	30 30	
329B2	196+87.5	520.75	30 30	
329B3	196+87.5	515.75	30 30	
329B4	196+87.5	510.75	20 ~~30~~ 20	
330A1	196+92.5	527.50	30	#8
330A2	196+92.5	524.50	30	
330A3	196+92.5	521.00	30	
330A4	196+92.5	516.00	29 30	
330A5	196+92.5	511.00	~~30~~ 20	
330B1	196+97.5	527.75	30	
330B2	196+97.5	524.75	30	
330B3	196+97.5	521.25	30	
330B4	196+97.5	516.25	30 30	
330B5	196+97.5	511.25	~~30~~ 20	
331A1	197+02.5	528.00	35	
331A2	197+02.5	525.00	35	
331A3	197+02.5	521.50	35	
331A4	197+02.5	516.50	35	X
331A5	197+02.5	511.50	~~35~~ 25	
331B1	197+07.5	530.25	35	
331B2	197+07.5	526.75	35	
331B3	197+07.5	521.75	35	
331B4	197+07.5	516.75	35	
331B5	197+07.5	511.75	~~35~~ 25	
332A1	197+12.5	530.50	35	
332A2	197+12.5	527.00	35	
332A3	197+12.5	522.00	35	
332A4	197+12.5	517.00	35	
332A5	197+12.5	512.00	~~35~~ 25	
332B1	197+17.5	531.25	35	
332B2	197+17.5	527.25	35	
332B3	197+17.5	522.25	35	
332B4	197+17.5	517.25	35	
332B5	197+17.5	512.25	~~35~~ 25	

1600

NOTE:
ELEVATIONS GIVEN ARE AT CENTER OF NAIL AT FRONT FACE OF SHOTCRETE.

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32se2.I
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR307
SHEET 142B OF 243

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
333A1	197+22.5	532.00	35	#8
333A2	197+22.5	527.50	35	
333A3	197+22.5	522.50	35	
333A4	197+22.5	517.50	35	
333A5	197+22.5	512.50	~~35~~ 25	
333B1	197+27.5	532.75	35	X
333B2	197+27.5	527.75	35	
333B3	197+27.5	522.75	35	
333B4	197+27.5	517.75	35	
333B5	197+27.5	512.75	~~35~~ 25	
334A1	197+32.5	533.00	35	
334A2	197+32.5	528.00	35	
334A3	197+32.5	523.00	35	
334A4	197+32.5	518.00	35	
334A5	197+32.5	513.00	~~35~~ 25	
334B1	197+37.5	533.28	35	
334B2	197+37.5	528.25	35	
334B3	197+37.5	523.25	35	
334B4	197+37.5	518.25	35	
334B5	197+37.5	513.25	~~35~~ 25	
335A1	197+42.5	533.50	35	
335A2	197+42.5	528.50	35	
335A3	197+42.5	523.50	35	
335A4	197+42.5	518.50	35	
335A5	197+42.5	513.50	~~35~~ 25	
335B1	197+47.5	533.75	35	
335B2	197+47.5	528.75	35	
335B3	197+47.5	523.75	35	
335B4	197+47.5	518.75	35	
335B5	197+47.5	513.75	~~35~~ 25	
336A1	197+52.5	534.00	35	
336A2	197+52.5	529.00	35	
336A3	197+52.5	524.00	35	
336A4	197+52.5	519.00	35	
336A5	197+52.5	514.00	~~35~~ 25	
336B1	197+57.5	533.50	35	
336B2	197+57.5	529.25	35	
336B3	197+57.5	524.25	35	
336B4	197+57.5	519.25	35	
336B5	197+57.5	514.25	~~35~~ 25	
337A1	197+62.5	533.25	35	
337A2	197+62.5	529.50	35	
337A3	197+62.5	524.50	35	
337A4	197+62.5	519.50	35	
337A5	197+62.5	514.50	~~35~~ 25	
337B1	197+67.5	531.25	35	
337B2	197+67.5	528.25	35	
337B3	197+67.5	524.75	35	
337B4	197+67.5	519.75	35	
337B5	197+67.5	514.75	~~35~~ 25	
338A1	197+72.5	531.50	35	
338A2	197+72.5	528.50	35	
338A3	197+72.5	525.00	35	
338A4	197+72.5	520.00	35	
338A5	197+72.5	515.00	~~35~~ 25	
338B1	197+77.5	530.25	35	
338B2	197+77.5	525.25	35	X
338B3	197+77.5	520.25	35	
338B4	197+77.5	515.25	~~35~~ 25	

HOLE NO.	STATION	ELEV.	NAIL LENGTH	TEST HOLE
339A1	197+82.5	529.00	35	#8
339A2	197+82.5	525.50	35	
339A3	197+82.5	520.50	35	
339A4	197+82.5	515.50	~~35~~ 25	
339B1	197+87.5	527.25	35	
339B2	197+87.5	524.25	35	
339B3	197+87.5	520.75	35	
339B4	197+87.5	515.75	~~35~~ 25	
340A1	197+92.5	527.50	35	
340A2	197+92.5	524.50	35	
340A3	197+92.5	521.00	35	
340A4	197+92.5	516.00	~~35~~ 25	
340B1	197+97.5	526.25	35	
340B2	197+97.5	521.25	35	X
340B3	197+97.5	516.25	~~35~~ 25	
341A1	198+02.5	525.00	20	
341A2	198+02.5	521.50	20	
341A3	198+02.5	516.50	20	
341B1	198+07.5	523.25	20	
341B2	198+07.5	520.25	20	
341B3	198+07.5	516.75	20	
342A1	198+12.5	523.50	20	
342A2	198+12.5	520.50	20	
342A3	198+12.5	517.00	20	
342B1	198+17.5	522.25	20	
342B2	198+17.5	517.25	20	
343A1	198+22.5	522.00	20	
343A2	198+22.5	517.50	20	
343B1	198+27.5	521.25	20	
343B2	198+27.5	517.75	20	
344A1	198+32.5	519.50	20	
344A2	198+32.5	517.00	20	
344B1	198+37.5	518.25	20	

NOTE:
ELEVATIONS GIVEN ARE AT CENTER OF NAIL AT FRONT FACE OF SHOTCRETE.

HOLE STATIONS & ELEVATIONS (3)

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32se3.I
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR308

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 142C OF 243

SOIL CLASSIFICATION

AASHTO

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
◕	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Sl	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	To Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

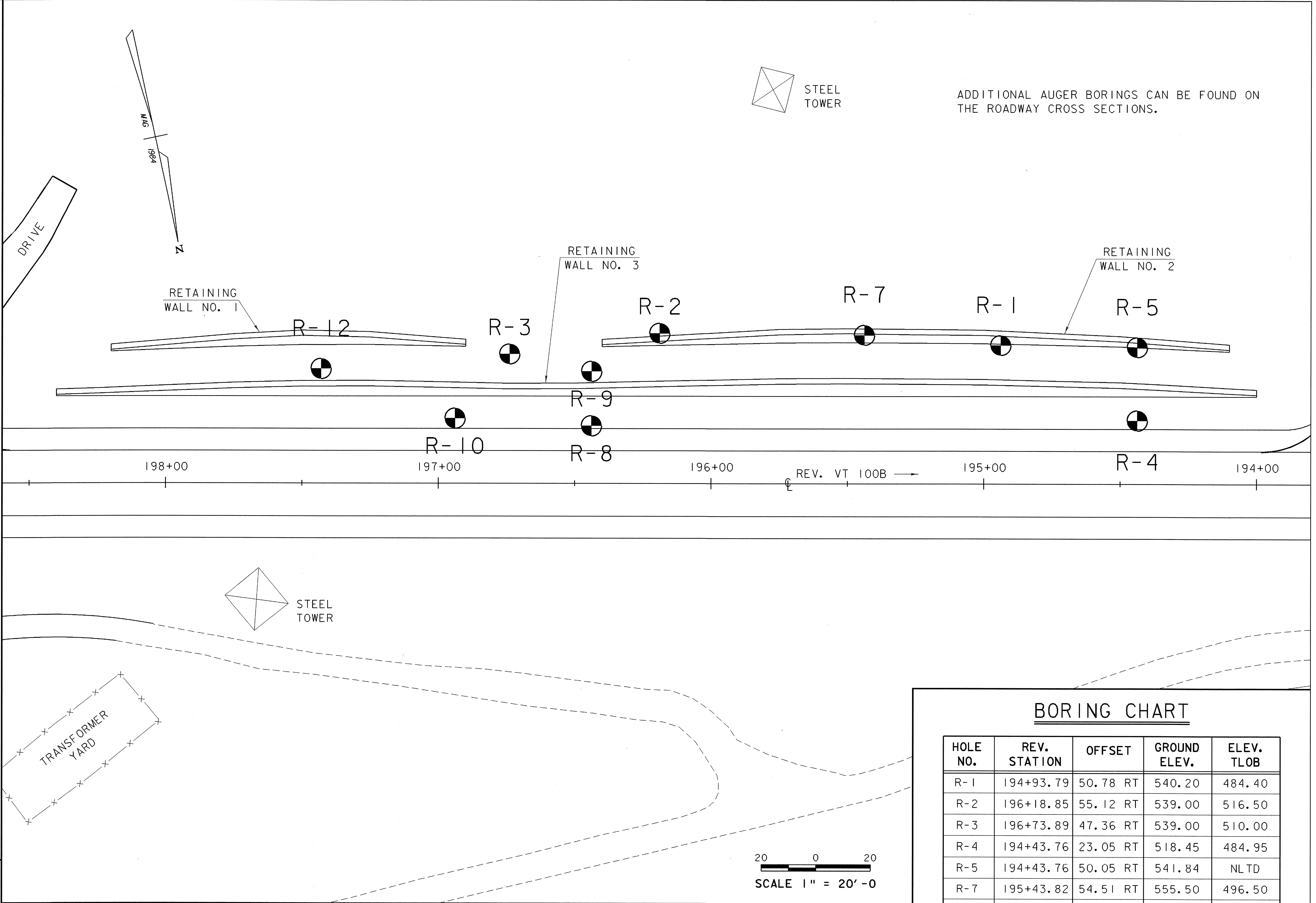
MUCK - Soft organic soil (containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.



ADDITIONAL AUGER BORINGS CAN BE FOUND ON THE ROADWAY CROSS SECTIONS.

GENERAL NOTES

1. The subsurface explorations shown herein were made between 6/22/89 and 2/9/98 by the Agency.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgement by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.

BORING CHART

HOLE NO.	REV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB
R-1	194+93.79	50.78 RT	540.20	484.40
R-2	196+18.85	55.12 RT	539.00	516.50
R-3	196+73.89	47.36 RT	539.00	510.00
R-4	194+43.76	23.05 RT	518.45	484.95
R-5	194+43.76	50.05 RT	541.84	NLTD
R-7	195+43.82	54.51 RT	555.50	496.50
R-8	196+43.88	20.98 RT	518.07	504.07
R-9	196+43.82	40.98 RT	526.43	510.03
R-10	196+93.91	23.71 RT	534.65	500.65
R-12	197+43.00	42.00 RT	549.29	484.29

BORING PLAN SHEET

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132b01.i
PROJECT LEADER: R.R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR309
PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 143A OF 243

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-1
SHEET 1 OF 1
DATE STARTED: 6/22/89
DATE COMPLETED:

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.194+93.79
GROUND EL.: 540.20
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 50.78
G.W. DEPTH: 55.8'

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER:
LOGGER:
BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	A-4, SaSi, Moist, brn	5	24.6					
10	▨	A-4, SaSi, Moist, brn	9	29					
15	▨	A-4, SaSi, Moist, gry	11	22.2					
20	▨	A-4, SaSi, Moist, gry	15	26					
25	▨	A-4, SaSi, Moist, gry	18	23.1					
30	▨	A-4, SaSi, Moist, gry	12	28.9					
35	▨	A-2-4, SiSa, Moist, gry	45	17.1					
40	▨	A-4, Si, MTW, gry	24	29.5					
45	▨	A-4, SiSa, Moist, gry	28	24.6					
50	▨	A-4, SiSa, Moist, gry	33	23.4					
55▽	∴	A-1-b, GrSa, Moist, gry	R	13.3					

Top of bedrock @ 55.8'

			RUN	REC	Dip°
60	▦	Run 1: AXMDC, 55.8'-60.8', Rec. = 3.5', See Geologist's Report.	1	70	50-70
65	▦	Run 2: AXMDC, 60.8'-65.8', Rec. = 2.0', See Geologist's Report.	2	40	50-70
70	▦	Run 3: AXMDC, 65.8'-68.8', Rec. = 3.0', See Geologist's Report.	3	100	50-70

Hole stopped @ 68.8'
In bedrock.

Geologist's Report

Run 1: Core consist of quartz-sericite chlorite schist. The rock contains pyrite and magnetite which weathers to iron oxides. The rock is moderately soft, slightly weathered and competent.

Run 2: A moderate amount of weathering occurs between 60.8' and 65.8'. The weathering is confined to the quartz-rich zones.

Run 3: Same as Run 1.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-2
SHEET 1 OF 1
DATE STARTED: 6/26/89
DATE COMPLETED:

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.196+18.85
GROUND EL.: 539.00
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 55.12
G.W. DEPTH: No Groundwater

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER:
LOGGER:
BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	A-4, SaGrSi, Moist, brn	15	11.9					
10	▨	A-4, SaGrSi, Moist, gry	22	22.1					
15	▨	A-4, Si, Moist, gry	20	26.3					
20	▨	A-4, SiSa, Moist, brn	19	16.4					

Top of bedrock @ 22.5'

			RUN	REC	Dip°
25	▦	Run 1: AXMDC, 22.5'-27.5', Rec. = 2.2', See Geologist's Report.	1	44	50-70
30	▦	Run 2: AXMDC, 27.5'-32.5', Rec. = 3.8', See Geologist's Report.	2	76	50-70

Hole stopped @ 32.5'
In bedrock

Geologist's Report

Run 1: Core consist of quartz-sericite-chorite schist. The rock is moderately soft, slightly weathered and competent overall. Poor core recovery may be due to a weathered quartz-rich zone which could not be recovered. Upper 5.0' of the rock may be poorer quality then indicated by the recovered core.

Run 2: Same as Run 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-3
SHEET 1 OF 1
DATE STARTED: 6/27/89
DATE COMPLETED:

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.196+73.89
GROUND EL.: 539.00
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 47.36
G.W. DEPTH: No Groundwater

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER:
LOGGER:
BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	A-4, SiSa, Moist, brn	5						
10	▨	A-4, SaSi, Moist, brn	12	23					
15	▨	A-4, SaSi, Moist, brn	14	24.7					
20	▨	A-4, SaSi, Moist, brn	13	29.2					
25	▩	No Rec.	21						

Top of bedrock @ 29.0'

			RUN	REC	Dip°
30	▦	Run 1: AXMDC, 29.0'-34.0', Rec. = 2.4', See Geologist's Report.	1	48	40-60
35	▦	Run 2: AXMDC, 34.0'-39.0', Rec. = 5.0', See Geologist's Report.	2	100	40-60

Hole stopped @ 39.0'
In bedrock.

Geologist's Report

Run 1: Core consists of quartz-sericite-chlorite schist. Poor recovery in the upper 5.0' may indicate an extensive zone of fracturing and weathering. Below this the rock is moderately soft, slightly weathered and competent overall.

Run 2: Same as Run 1.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-4
SHEET 1 OF 1
DATE STARTED: 1/9/98
DATE COMPLETED: 1/13/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.194+43.76
GROUND EL.: 518.45
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 23.05
G.W. DEPTH: NO GROUNDWATER

BORING CREW
CREW CHIEF: E. WILLIS
DRILLER: R. TALLMAN
LOGGER: E. CHABOT
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	A-4,SaSi,M,brn,rec.=1.1'	5	28.4		28.2	71.8		
10	▨	A-4,SaSi,M,brn,rec.=1.5'	13	32.7		23.1	76.9		
15	∴	A-1-b,GrSa,M,brn,rec.=1.5'	33	14.1	21.4	62.6	16		
20	▨	A-4,SaSi,M,brn,rec.=1.1'	23	27	1	20.4	78.6		
25	▨	A-4,SiSa,M,brn,rec.=1.2'	15	23.5		55.2	44.8		
30	▨	A-4,SaSi,M,brn,rec.=1.5'	11	30.3	4.5	23.8	71.7		

Top of bedrock @ 33.5'

			RUN	REC %	RQD %	Dip°
35	▦	Run #1: BXMDC 33.5'-34.5' rec.=0.3'-See Geologist's Report	1	30	0	70
	▦	Run #2: BXMDC 34.5'-39.5' rec.=4.2'-See Geologist's Report	2	84	72	70
40	▦	Run #3: BXMDC 39.5-44.5 rec.=4.7'-See Geologist's Report	3	94	90	70

Hole stopped @ 44.5' in bedrock.

Note: Monitoring Well set to 25'; 20' Screen 5' Solid

Note: 02/13/98 - No water in monitoring well

Geologist's Report:

Run 1: Core consists of green quartz-chlorite schist with quartz veins. Very hard. Poor RQD.

Run 2: Core consists of green quartz-chlorite schist with quartz veins. Hard. Unweathered. Competent

Run 3: Core consists of dark green quartz-chlorite schist with minor quartz veins. Hard. Unweathered. Moderately weathered zones along foliation at 40' and 44.7'. Competent

BORING LOGS (1)

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132b02.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR310
SHEET 143B OF 243

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-5
SHEET 1 OF 1
DATE STARTED: 12/22/97
DATE COMPLETED: 12/24/97

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.194+43.76
GROUND EL.: 541.84
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 50.05
G.W. DEPTH: NO GROUNDWATER

BORING CREW
CREW CHIEF: E. WILLIS
DRILLER: R. TALLMAN
LOGGER: E. CHABOT
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-4,SaSi,M,brn,rec.=1.2′	8	24.2		24.8	75.2		
10		A-4,SiSa,M,brn,rec.=1.2′	10	20.9		58.9	41.1		
15		A-4,SaSi,M,brn,rec.=2.0′	9	21.9		38.5	61.5		
20		A-4,SaSi,M,brn,rec.=1.0′	12	24.5	1.7	26.6	71.7		
25		A-4,SaSi,M,brn,rec.=1.2′	13	24.9	0.7	30	69.3		
30		A-4,SaSi,M,brn,rec.=1.3′	12	27.9	1.1	26.7	72.2		
35		A-4,SaSi,M,brn,rec.=1.2′	15	28.8		35.4	64.6		
40		A-4,SaSi,M,brn,rec.=1.0′	27	22.4	18	39.2	42.8		
45		Hole stopped @ 42.0′							

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-7
SHEET 1 OF 1
DATE STARTED: 1/15/98
DATE COMPLETED: 1/20/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.195+43.82
GROUND EL.: 555.50
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 54.51
G.W. DEPTH: NO GROUNDWATER

BORING CREW
CREW CHIEF: E. WILLIS
DRILLER: R. MCGLYNN
LOGGER: R. TALLMAN
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-4,SaSi,M,brn,rec.=1.6′	4	26.5		43.3	56.7		
10		A-4,Si,M,brn,rec.=1.5 ′	5	29.1		17.6	82.4		
15		A-4,SiSa,M,brn,rec.=1.0′	10	17.4		55.5	44.5		
20		A-4,Si,M,brn,rec.=1.1′	15	27.3		19.1	80.9		
25		A-4,SaSi,M,brn,rec.=1.2′	15	33.6		38.9	61.1		
30		A-4,SaSi,M,brn,rec.=1.2′	15	24.7		33	67		
35		A-4,SaSi,M,brn,rec.=1.4′	14	27.5		29.1	70.9		
40		A-4,Si,M,brn,rec.=1.4 ′	15	26.7		19	81		
45		A-4,SaSi,M,brn,rec.=1.1′	19	28	0.3	31.5	68.2		
50		A-4,SiSa,M,brn,rec.=1.9′	23	19.9		50.4	49.6		
55		A-4,SiSa,M,brn,rec.=1.5′	25	21.4		58.2	41.8		
			Top of bedrock @ 59.0′						
			RUN	REC %	RQD %	Dip°			
60		Run #1: BXMDC 59.0′-64.0′ rec.=4.9′-See Geologist′s Report	1	98	79	70			
65		Run #2: BXMDC 64.0′-69.0′ rec.=5.0′-See Geologist′s Report	2	100	98	70			
70			Hole stopped @ 69.0′						

Geologist′s Report:

Run 1: Core consists of green quartz-chlorite schist with minor calcite veins. Unweathered. Hard Competent.

Run 2: Same as Run #1. Competent.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-8
SHEET 1 OF 1
DATE STARTED: 1/28/98
DATE COMPLETED: 1/28/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.196+43.88
GROUND EL.: 518.07
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 20.98
G.W. DEPTH: NO GROUNDWATER

BORING CREW
CREW CHIEF: E. WILLIS
DRILLER: R. MCGLYNN
LOGGER: R. TALLMAN .
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		No sample - boulders							
10		A-1-b,SiSaGr,M,brn rec.=0.5′	10	13.3	46.6	30.8	22.6		
			Top of bedrock @ 14.0′						
			RUN	REC %	RQD %	Dip°			
15		Run #1: BXMDC 14.0′-19.0′ rec.=3.8′-See Geologist′s Report	1	76	74	70			
20		Run #2: BXMDC 19.0′-24.0′ rec.=3.1′-See Geologist′s Report	2	60	50	70			
25			Hole stopped @ 24.0′						

Note: Monitoring Well set to 14′; 10′ Screen 5′ Solid

Note: 02/13/98 - No water in monitoring well

Geologist′s Report:

Run 1: Core consists of green quartz-chlorite schist with quartz veins. Moderately hard. Unweathered. Competent.

Run 2: Same as Run #1.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-9
SHEET 1 OF 1
DATE STARTED: 1/29/98
DATE COMPLETED: 1/30/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV.196+43.82
GROUND EL.: 526.43
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 40.98
G.W. DEPTH: No Groundwater

BORING CREW
CREW CHIEF:
DRILLER: CHABOT E J
LOGGER: LAPORTE
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		Boulders-No Sample							
10		A-2-4,SiSa,W,brn rec.=0.4	22	25.9	2.8	63.5	33.7		
15		A-4,SaSi,M,brn,rec.=0.5	R	23.1	1.2	49	49.8		
		Run #1: BXMDC 16.4′-21.4′ rec.=2.6′-See Geologist′s Report	Top of bedrock @ 16.4′						
			RUN	REC %	RQD %	Dip°			
20			1	52	52	70			
25		Run #1: BXMDC 21.4′-26.4′ rec.=3.1′-See Geologist′s Report	2	62	58	70			
			Hole stopped @ 26.4′						

Geologist′s Report:

Run 1: Core consists of light green quartz-chlorite schist. Moderately hard. Unweathered. Recovered rock is competent.

Run 2: Same as Run #1, but with quartz veins.

BORING LOG (2)

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132b03.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR311
SHEET 143C OF 243

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-10
SHEET 1 OF 1
DATE STARTED: 2/2/98
DATE COMPLETED: 2/3/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV. 196+93.91
GROUND EL.: 534.65
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 23.71
G.W. DEPTH: No Groundwater

BORING CREW
CREW CHIEF: E. WILLIS
DRILLER: R. MCGLYNN
LOGGER: W. LAPORTE
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	A-4,SaSi,M,brn,rec.=0.8′	5	25		44.7	55.3		
10	▨	A-4,SaSi,M,brn,rec.=1.2′	15	23.8		34.6	65.4		
15	▨	A-4,SaSi,M,brn,rec.=1.3′	13	29.6		31.3	68.7		
20	▨	A-4,SaSi,M,brn,rec.=1.1′	28	25.1		36.5	63.5		
25	▨	A-4,SaSi,M,brn,rec.=1.3′	30	21.6	0.3	29.2	70.5		
30	▨	A-4,SaSi,M,brn,rec.=1.0′	21	24.3	0.1	29.3	70.6		
			Top of bedrock @ 34.0′						
			RUN	REC %	RQD %	Dip°			
35	▦	Run #1: BXMDC 34.0′-39.0′ rec.=4.2′-See Geologist's Report	1	84	68	70			
40	▦	Run #2: BXMDC 39.0′-44.0′ rec.=5.0′-See Geologist's Report	2	100	98	70			
45		Hole stopped @ 44.0′							
50									
55									
60									
65									
70									
75									
80									
85									
90									
95									

Geologist's Report:

Run 1: Core consists of light grayish-green quartz chlorite schist with minor quartz veins. Moderately Hard. Unweathered. Competent.

Run 2: Same as Run #1.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: R-12
SHEET 1 OF 1
DATE STARTED: 2/5/98
DATE COMPLETED: 2/9/98

PROJECT NAME: MORETOWN
SITE NAME: RETAINING WALL
STATION: REV. 197+43.00
GROUND EL.: 549.29
PROJECT NUMBER: RS0167(9)
SITE NO.:
OFFSET: 42.00
G.W. DEPTH: No Groundwater

BORING CREW
CREW CHIEF: R. MCGLYNN
DRILLER: E. CHABOT
LOGGER: R. TALLMAN
BORING RIG: SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	▨	Combined Sample A-4,GrSaSi,M,brn rec. varies 1.0 to 1.5 Friction Angle = 29° Cohesion, c, = 225 psf	4	22.3	20.4	34	45.6		
10	▨		12						
15	▨		15	10.3					
20	▨		11	19.6					
25	▨		11	24					
30	▨	Combined Sample A-4,SaSi,M,brn rec. varies 1.0 to 1.3 Friction Angle = 33° Cohesion, c, = 0 psf	18	20.5	0.2	46.3	53.5		
35	▨		17	25.4					
40	▨		13	24.8					
45	▨		15	24.9					
50	▨	Combined Sample A-4,SiSa,M,brn rec. varies 1.1 to 1.2 Friction Angle = 31° Cohesion, c, = 360 psf	15	26.3	4.6	52.5	42.9		
55	▨		19	20.7					
60	▨		22	14.8					
			Top of bedrock @ 65.0′						
65	▦	Rock Particles,rec.=2.0	23	3.3					
			RUN	REC %	RQD %	Dip°			
70	▦	Run #1:BXMDC, 67.0′-72.0′ rec.=1.0-See Geologist's Report	1	20	8	70			
75	▦	Run #1:BXMDC, 72.0′-77.0′ rec.=2.4-See Geologist's Report	2	48	40	70			
		Hole stopped @ 77.0′							
80									
85									
90									
95									

Note: During coring of bedrock 67.0′-77.0′ rock particles being washed away by core water.

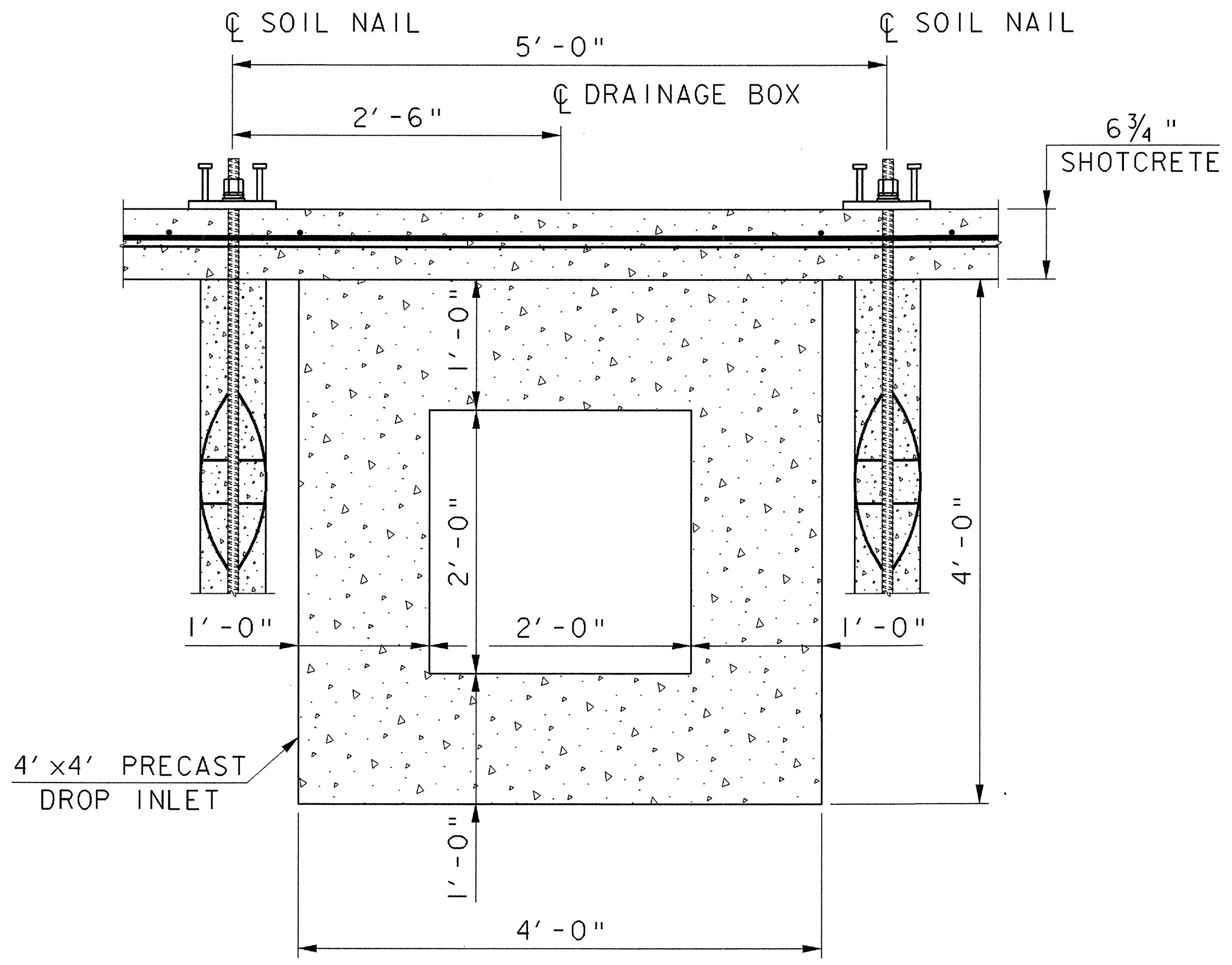
Monitoring Well installed to 47.5′
30′ Screen & 20′ Solid

Geologist's Report:
Run 1: Core consists of light green quartz-chlorite schist. Moderately hard. Unweathered. Poor RQD and recovery.
Run 2: Same as Run #1.

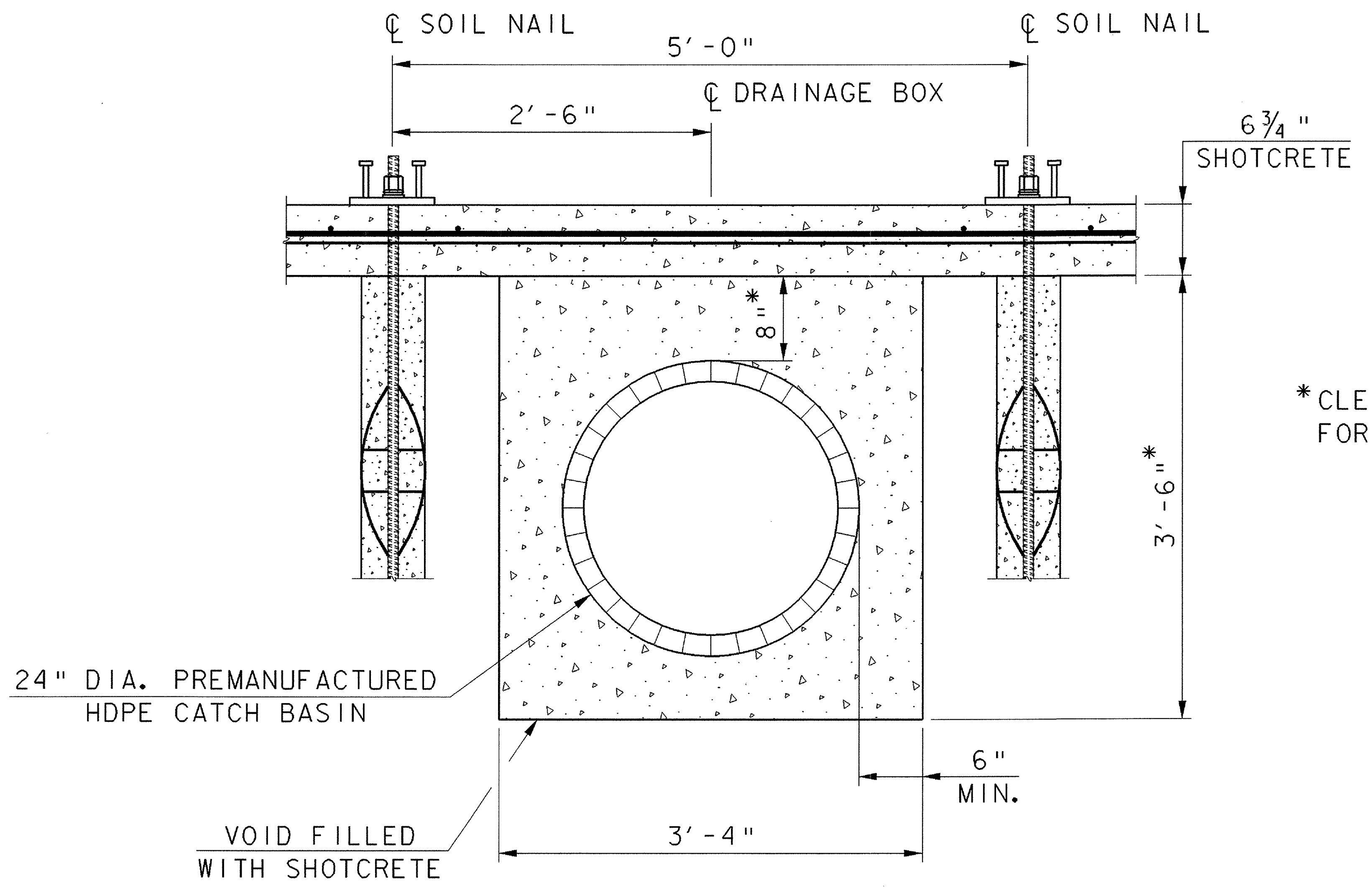
BORING LOGS (3)

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132b04.i
PROJECT LEADER: R.R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR312
PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 143D OF 243



OPTION "A"



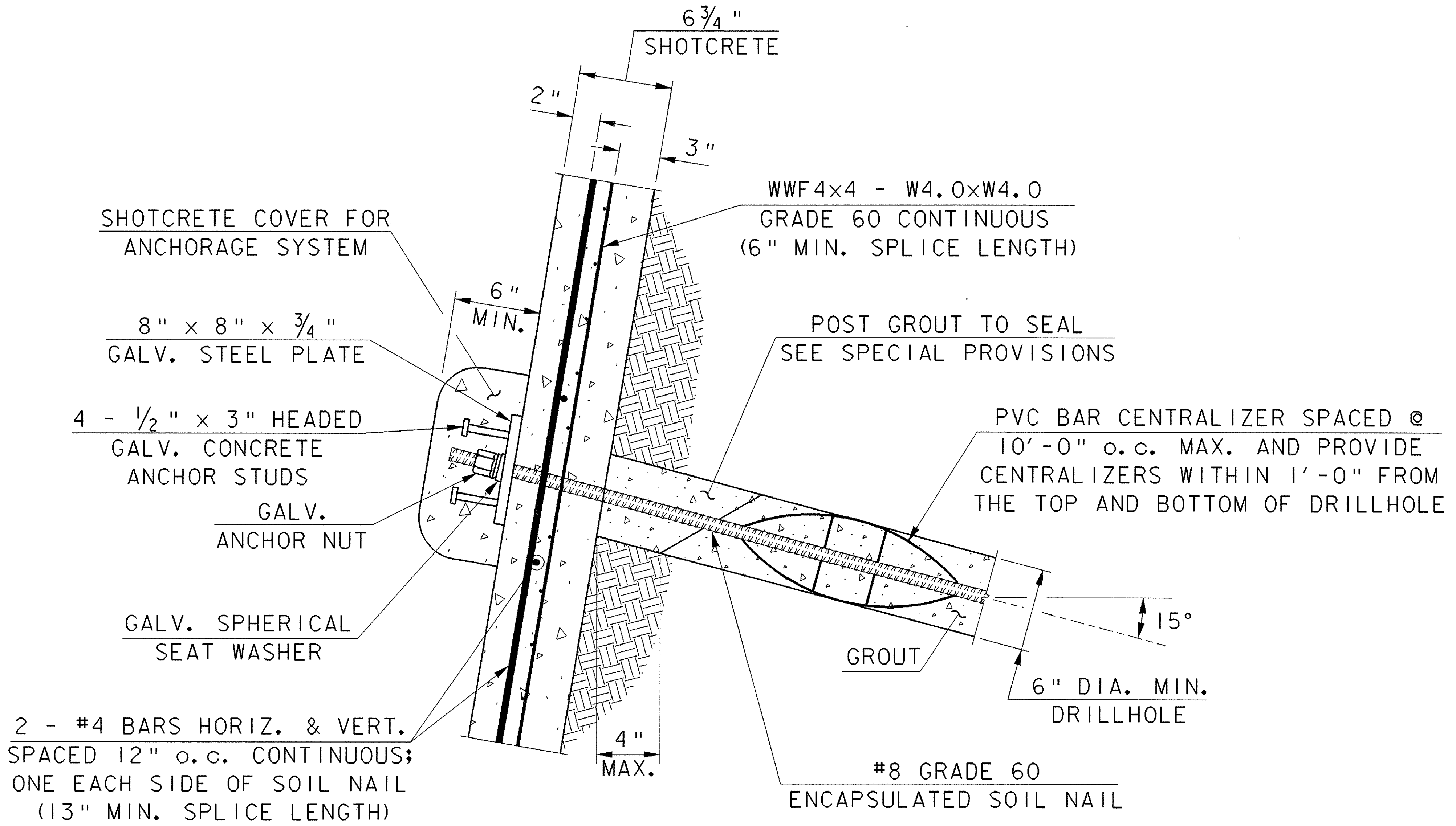
*CLEARANCE AS REQUIRED
FOR FRAME AND GRATE

OPTION "B"

DRAINAGE BOX PLAN BEHIND WALL NO. 3 AT STA. 196+65

SCALE: 1" = 1'-0"

NOTE:
IF CONTRACTOR DECIDES NOT TO USE EITHER OPTION, A WRITTEN PROPOSAL WITH DETAIL DRAWINGS SHALL BE SENT TO THE STRUCTURES ENGINEER FOR APPROVAL.



SOIL NAIL HEAD AND SHOTCRETE FACE DETAIL

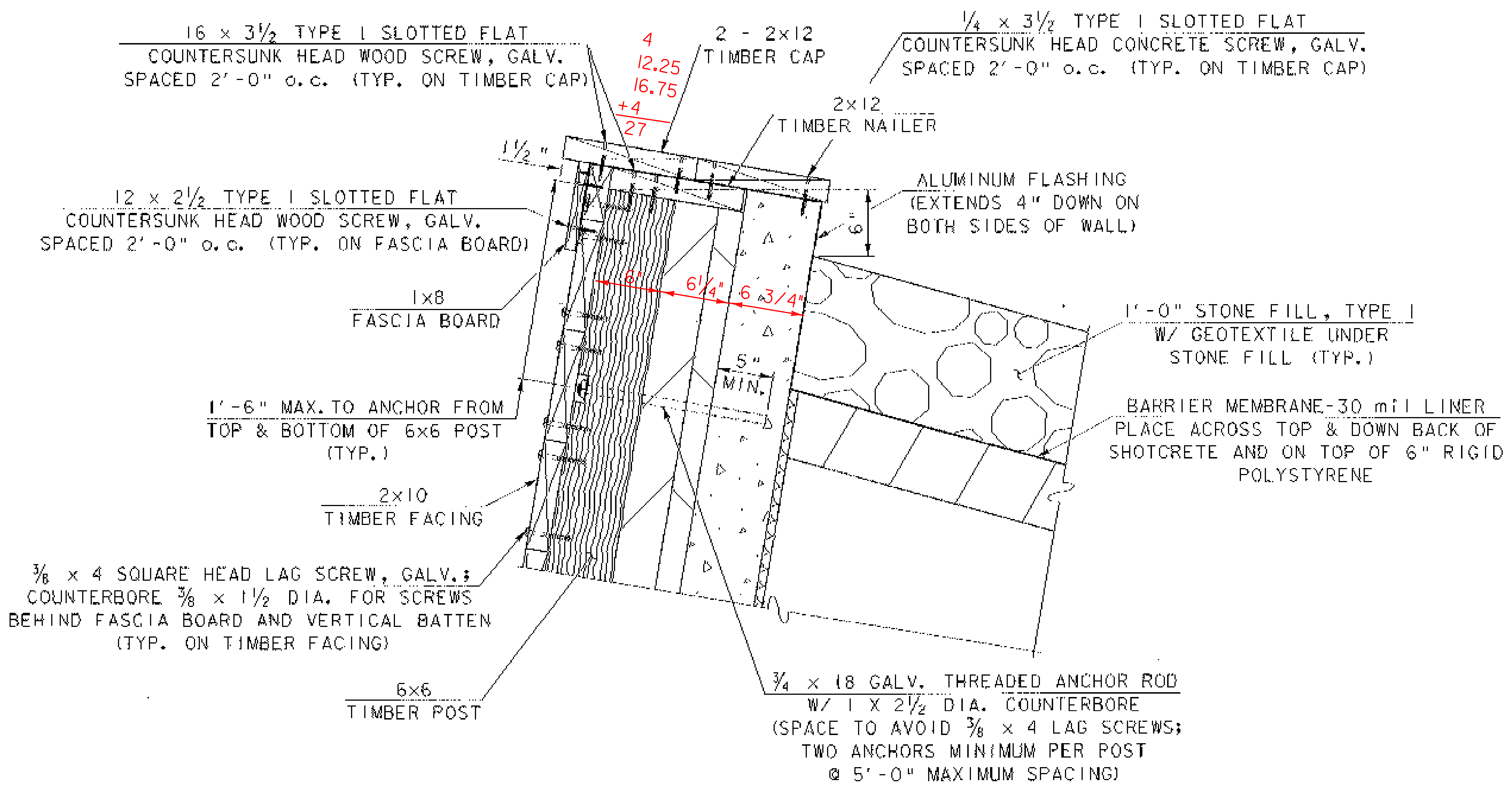
SCALE: 1½" = 1'-0"

SOIL NAIL AND DRAINAGE DETAILS

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

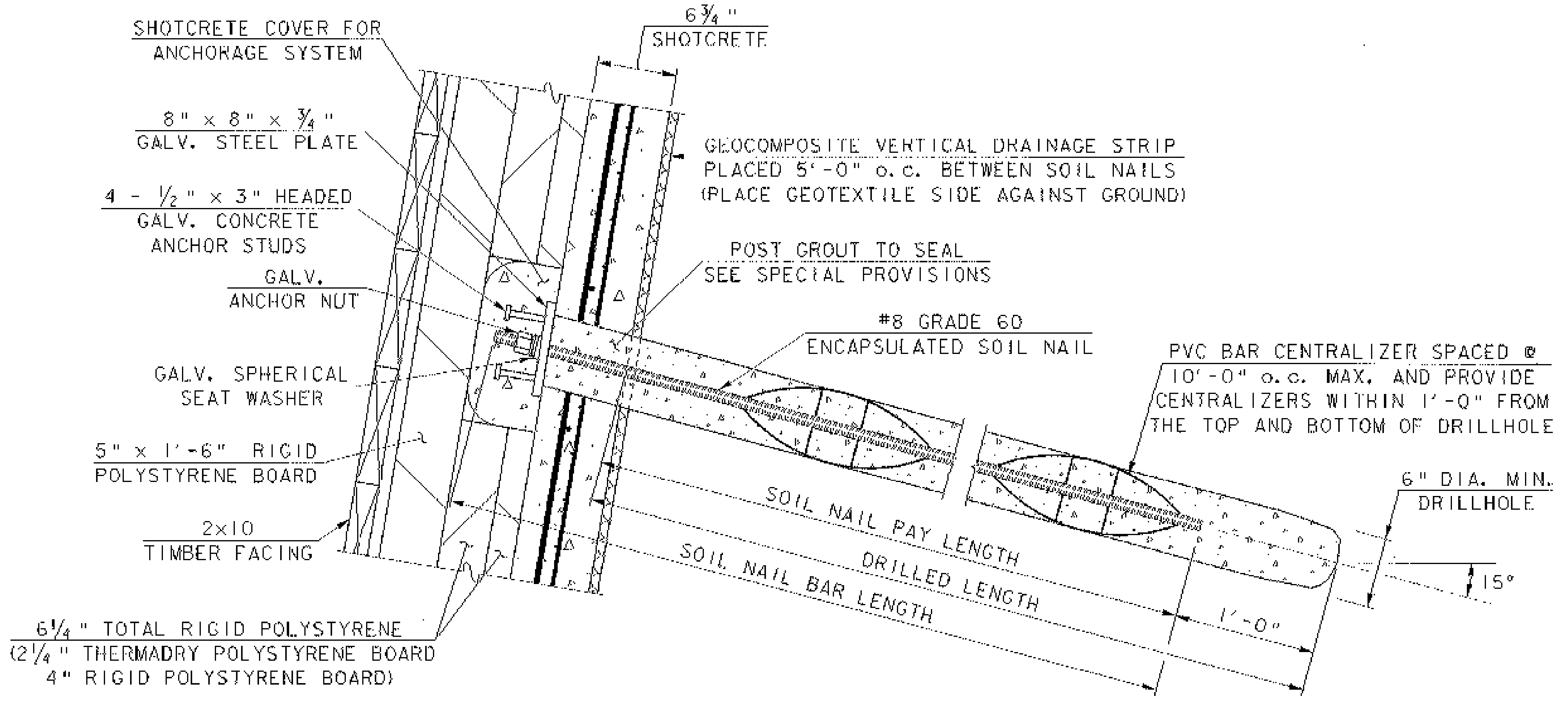
FILE NAME: \78el32\Structures\sel32snd.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR313

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 144A OF 243



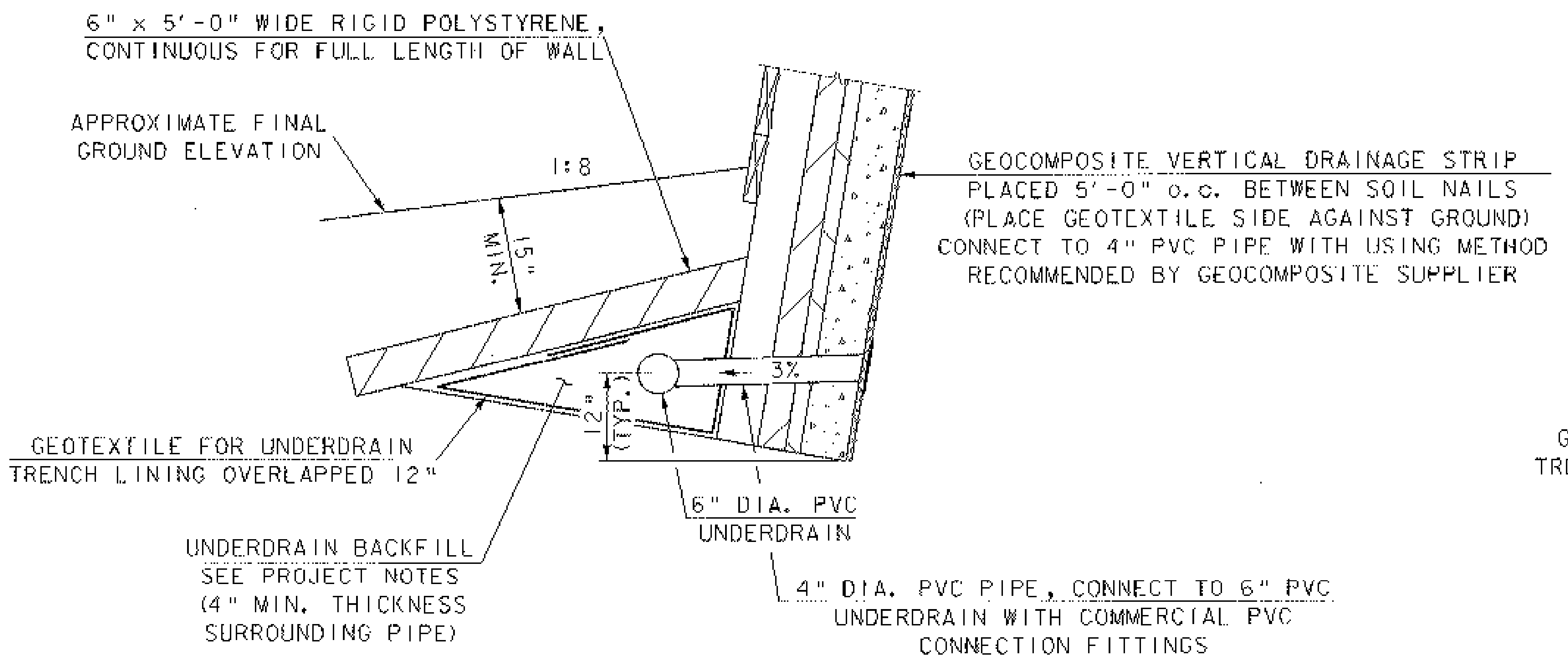
TIMBER CAP AND POST ANCHOR DETAIL

SCALE: 1½ " = 1'-0"



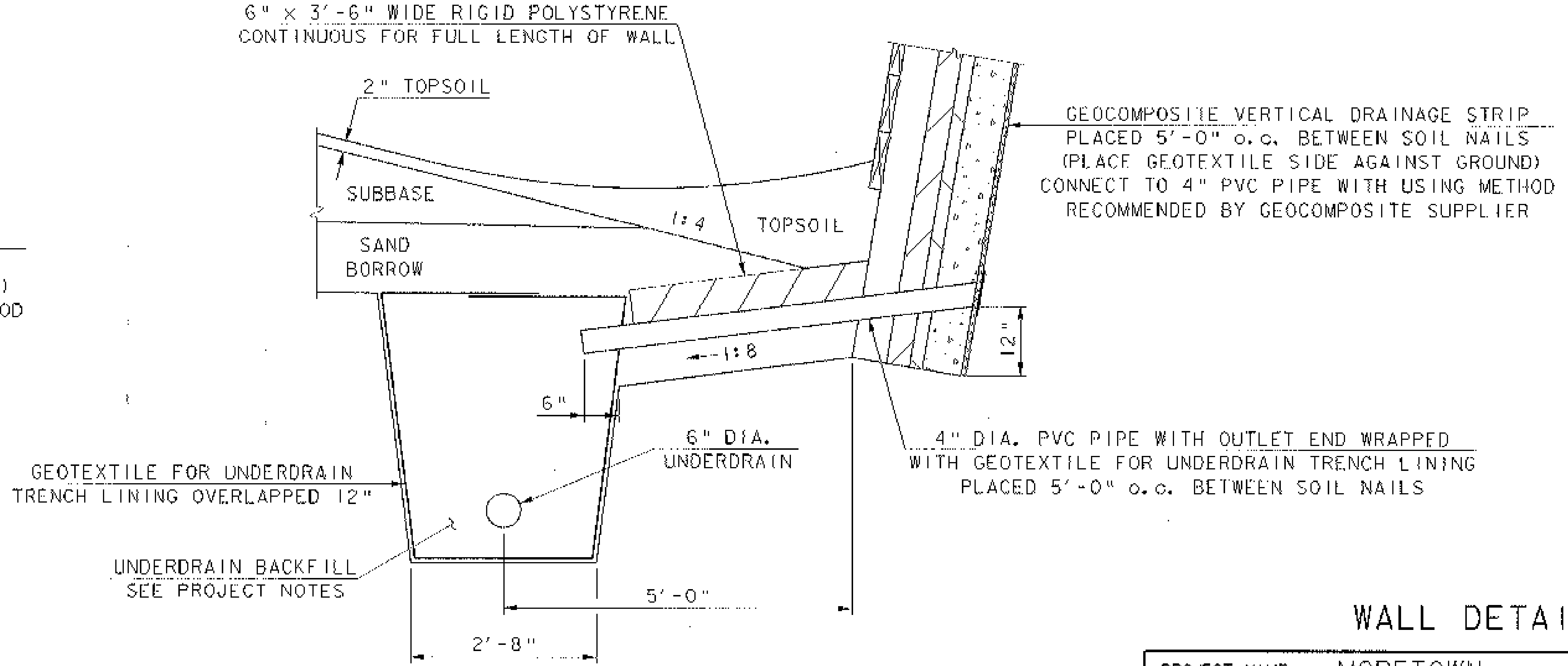
SOIL NAIL DETAIL

SCALE: 1½ " = 1'-0"



UPPER WALL DRAINAGE DETAIL

SCALE: ¾ " = 1'-0"



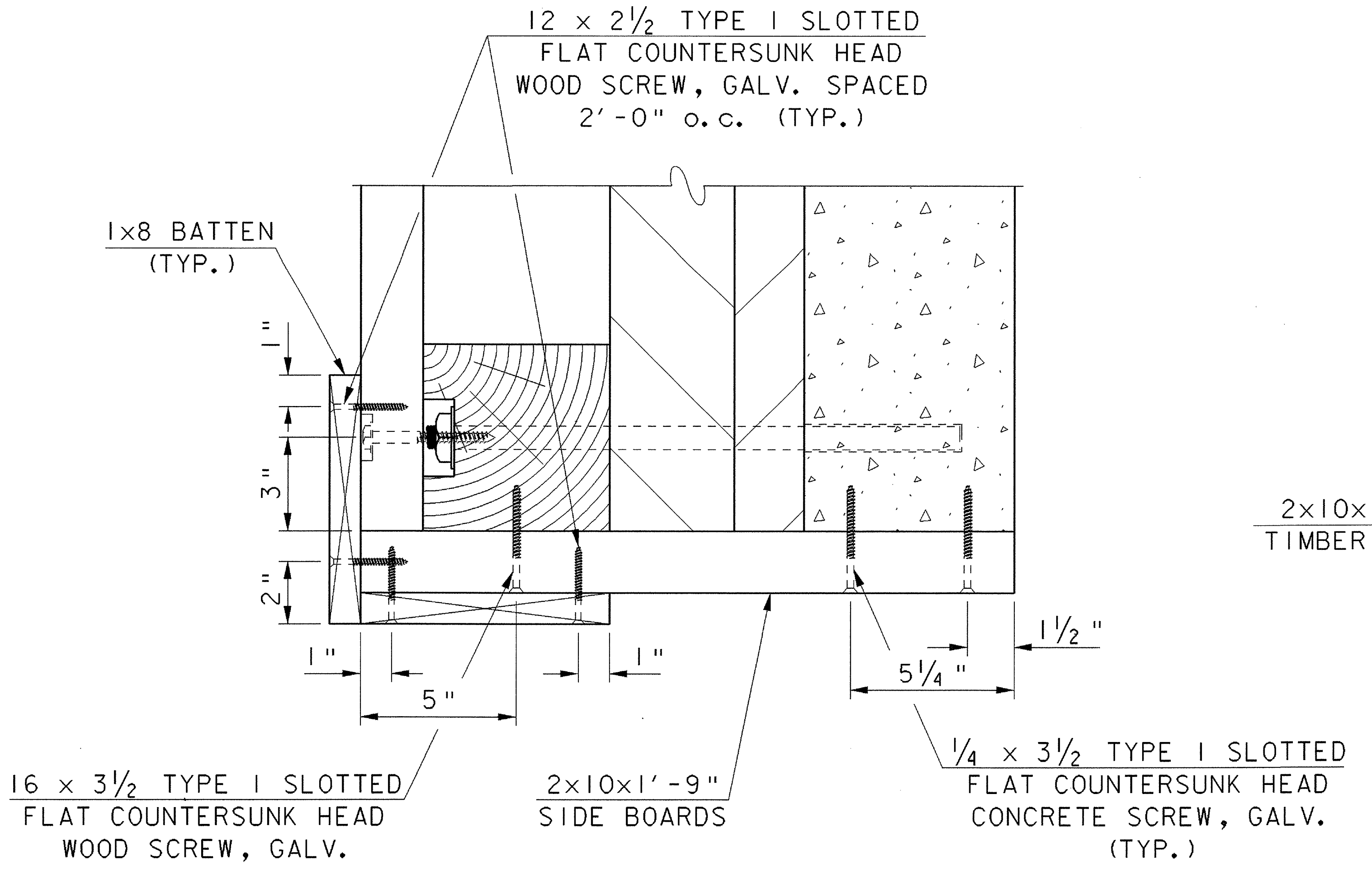
LOWER WALL DRAINAGE DETAIL

SCALE: ¾ " = 1'-0"

WALL DETAILS

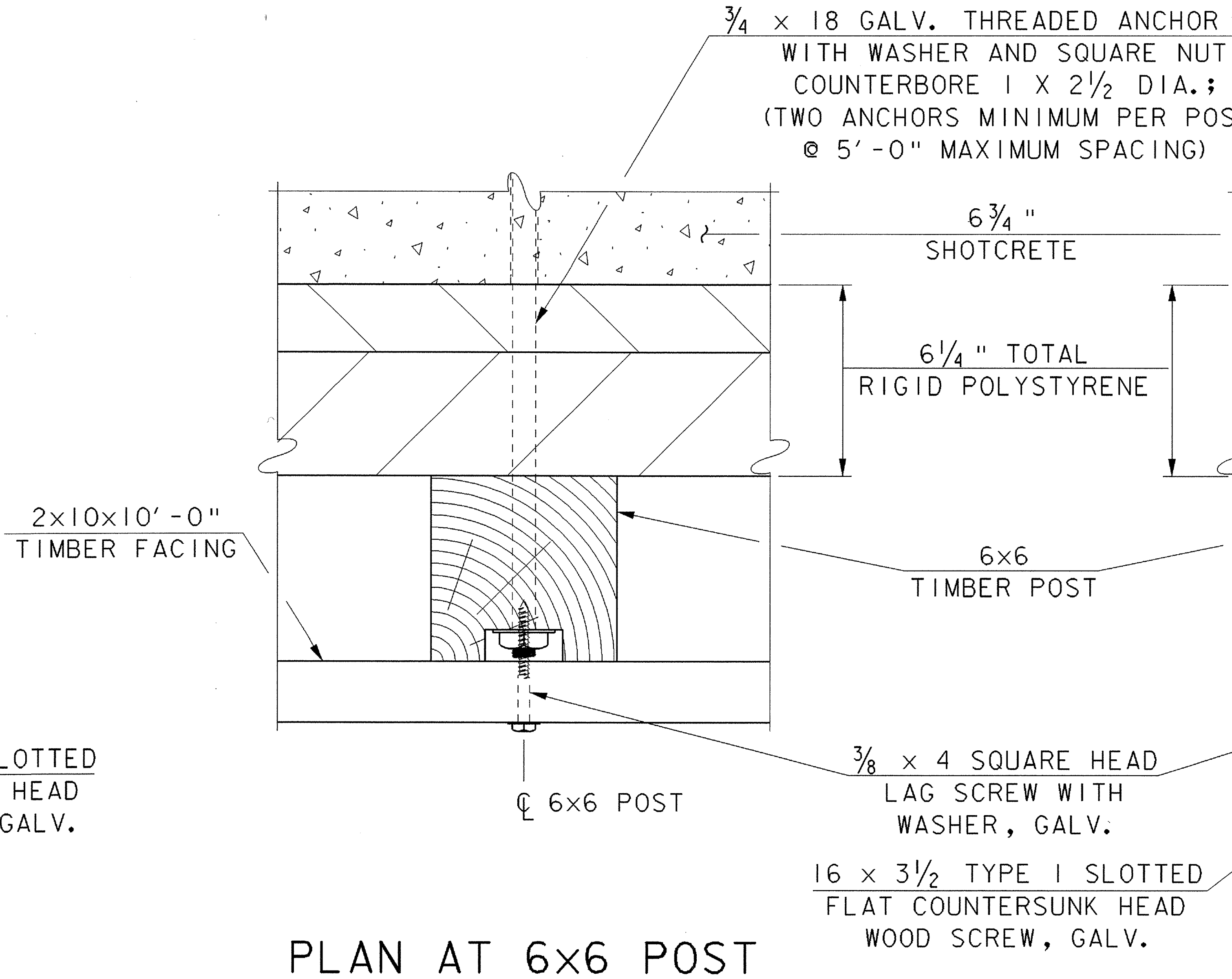
PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32det.I
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR314
SHEET 144B OF 243



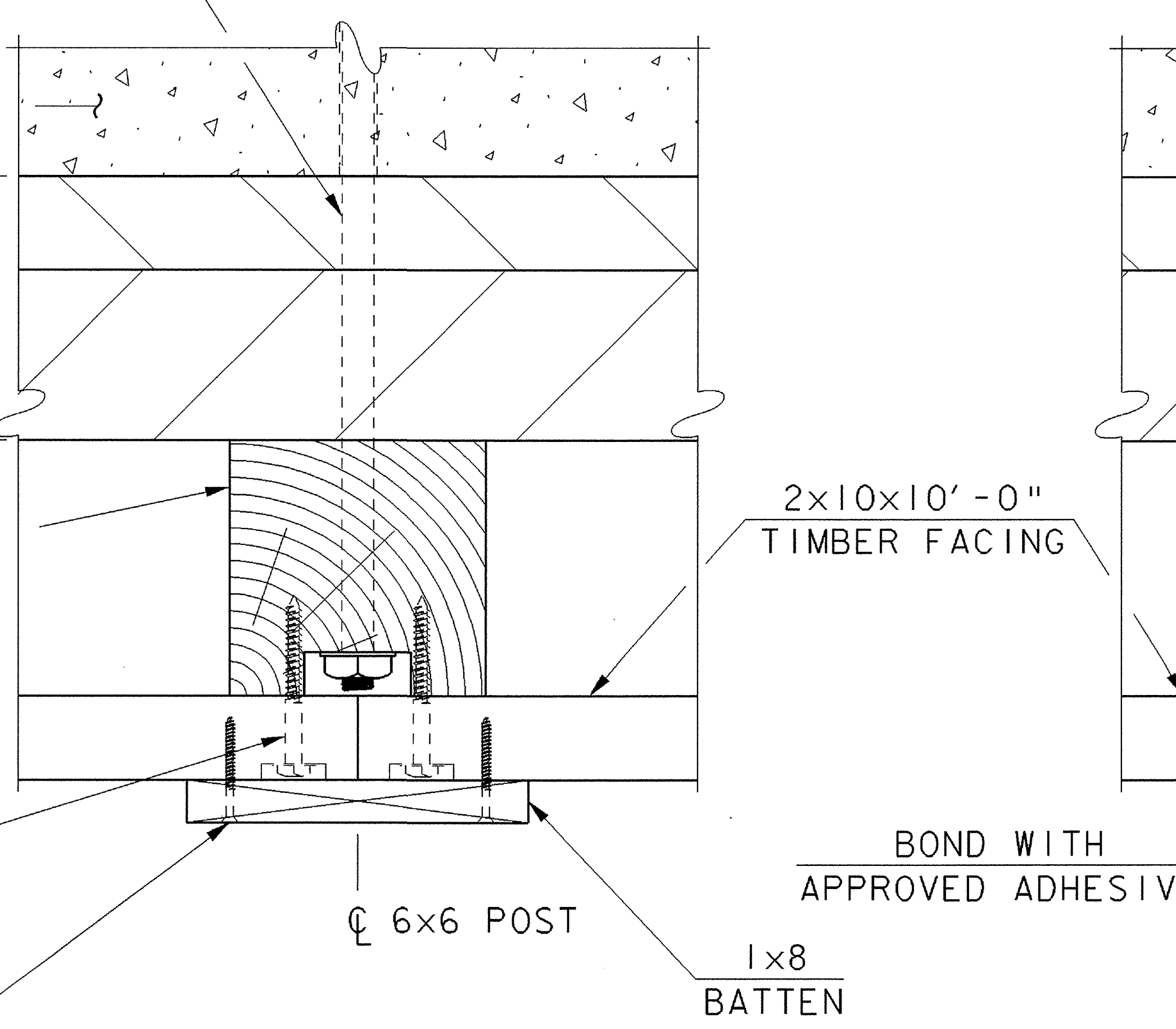
PLAN AT END OF WALL

SCALE: 3" = 1'-0"



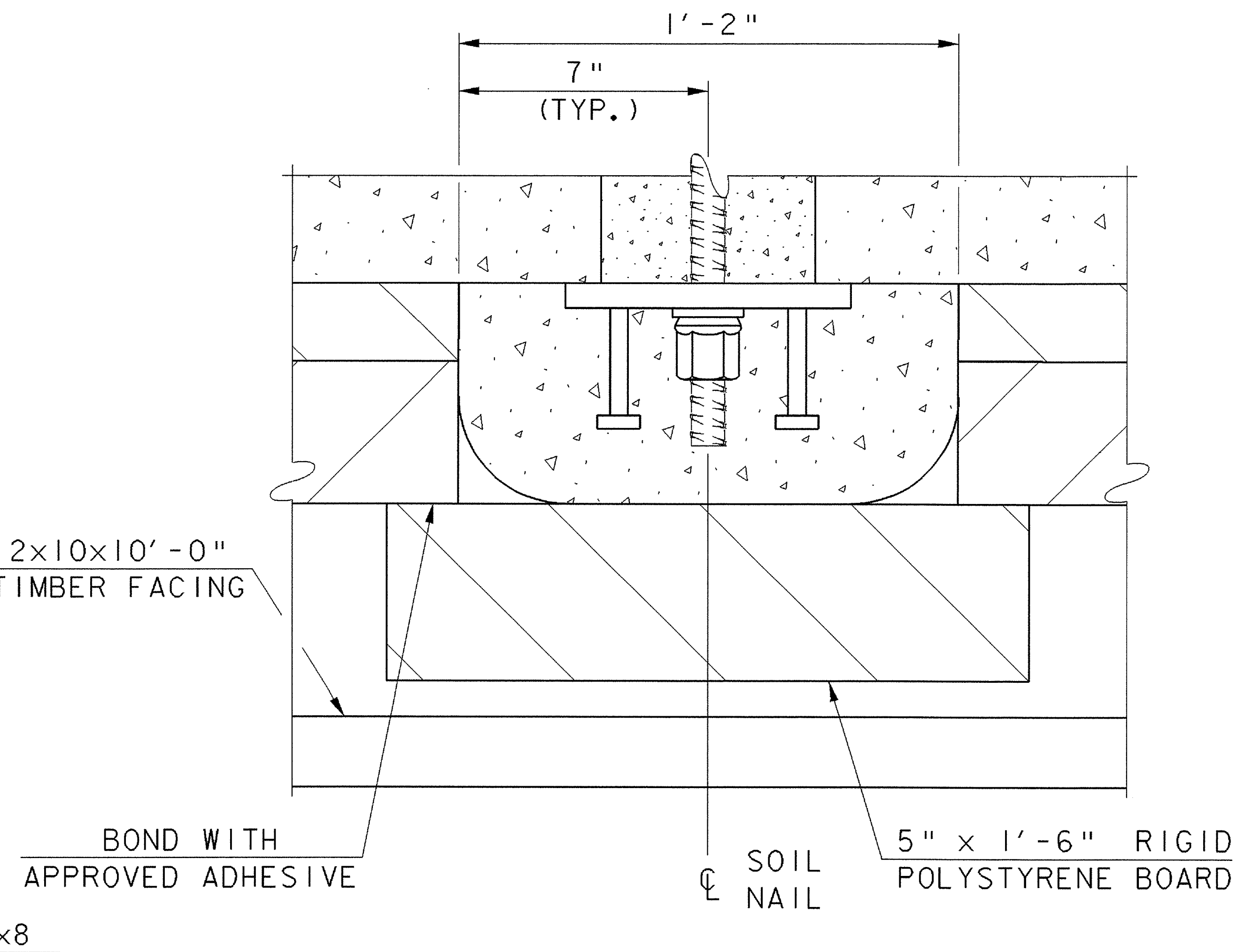
PLAN AT 6x6 POST WITHOUT 1x8 BATTEN

SCALE: 3" = 1'-0"



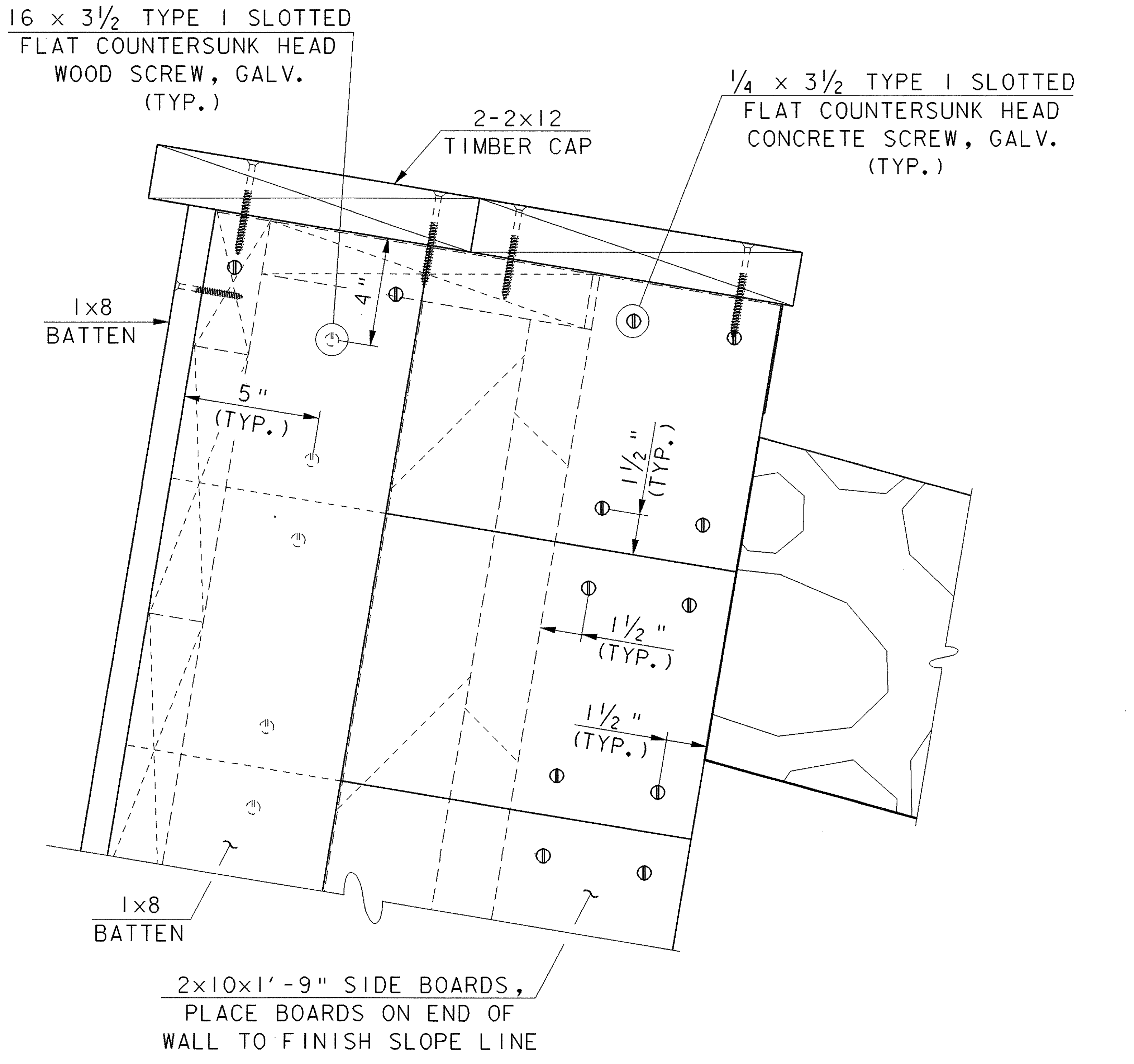
PLAN AT 6x6 POST WITH 1x8 BATTEN

SCALE: 3" = 1'-0"



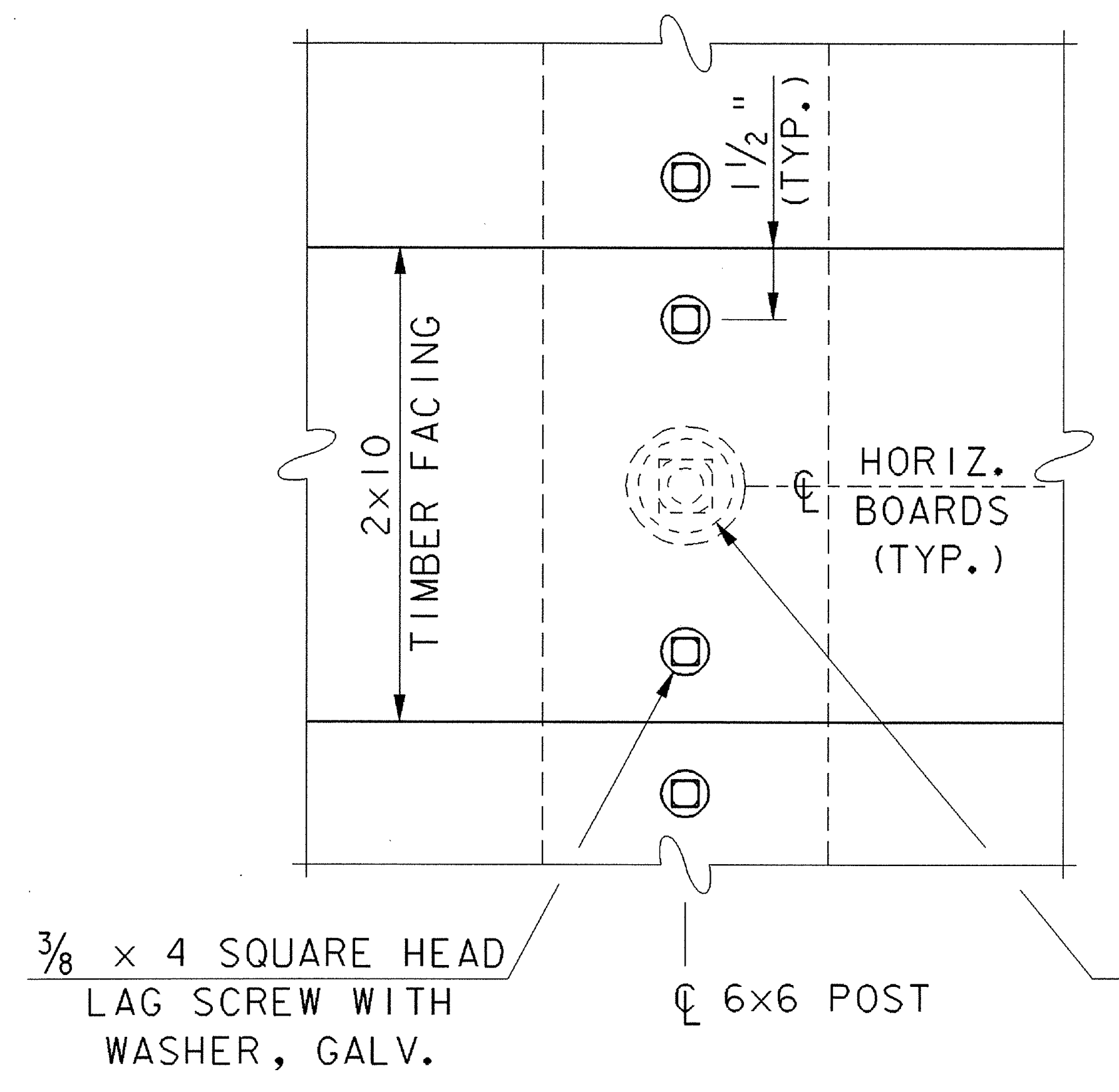
PLAN AT SOIL NAIL

SCALE: 3" = 1'-0"



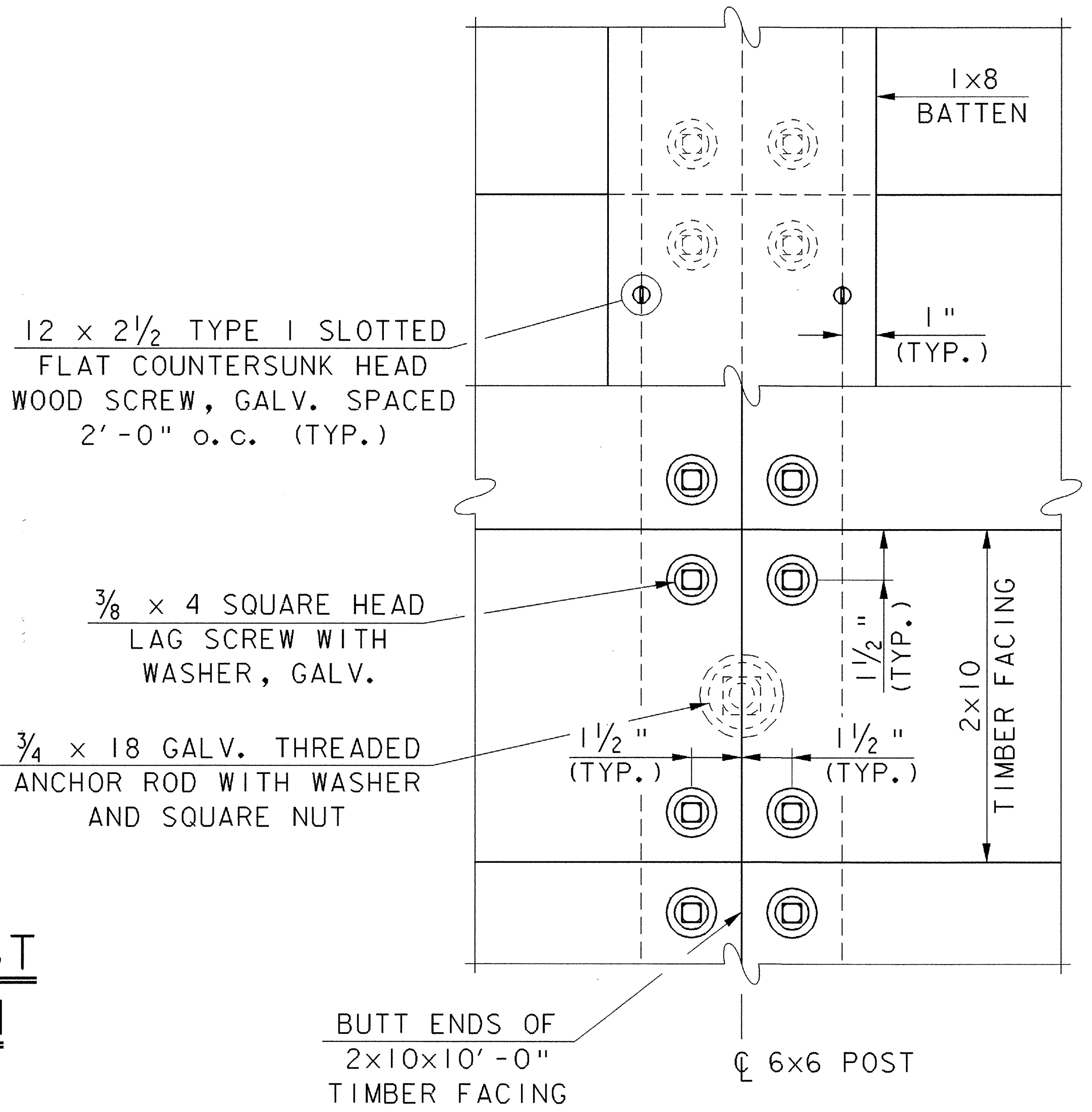
ELEVATION AT END OF WALL

SCALE: 3" = 1'-0"



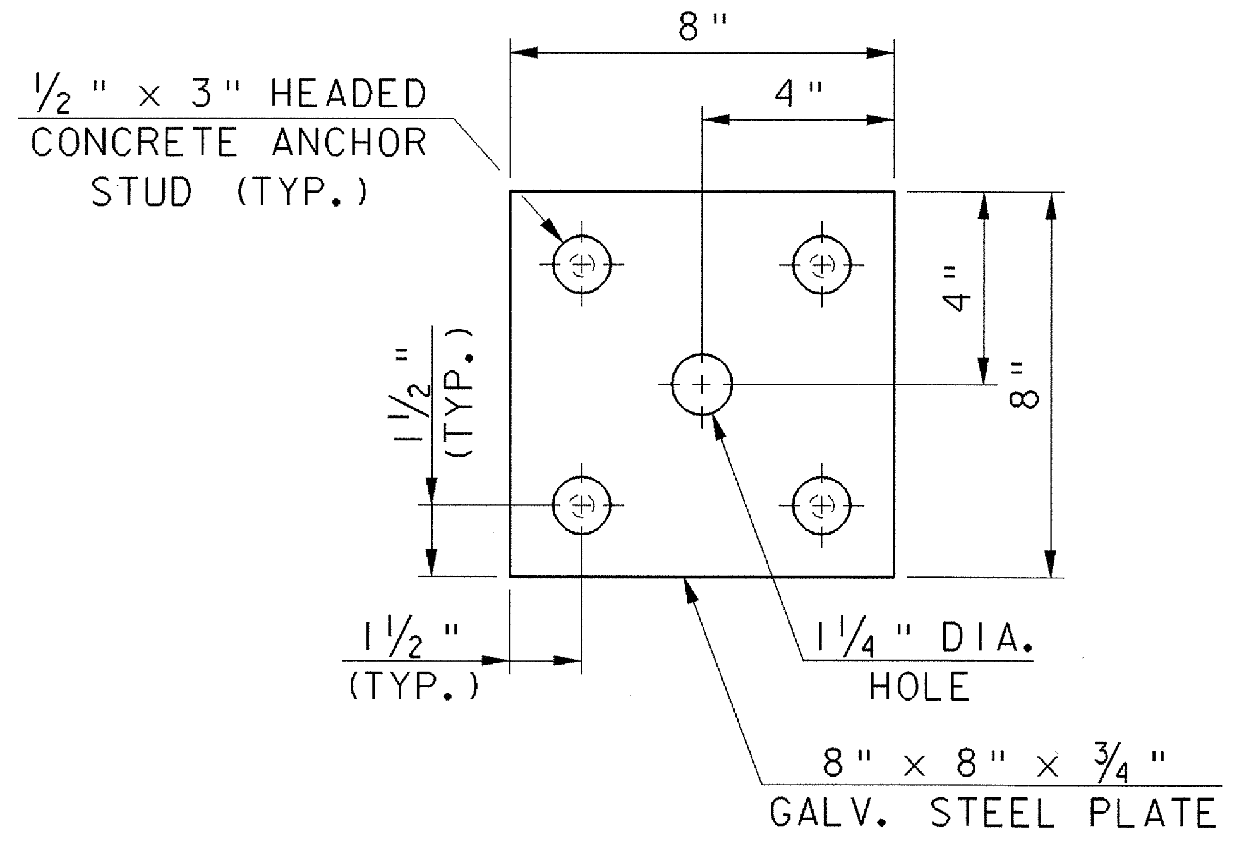
ELEVATION AT 6x6 POST WITHOUT 1x10 BATTEN

SCALE: 3" = 1'-0"



ELEVATION AT 6x6 POST WITH 1x10 BATTEN

SCALE: 3" = 1'-0"



ANCHORAGE PLATE DETAIL

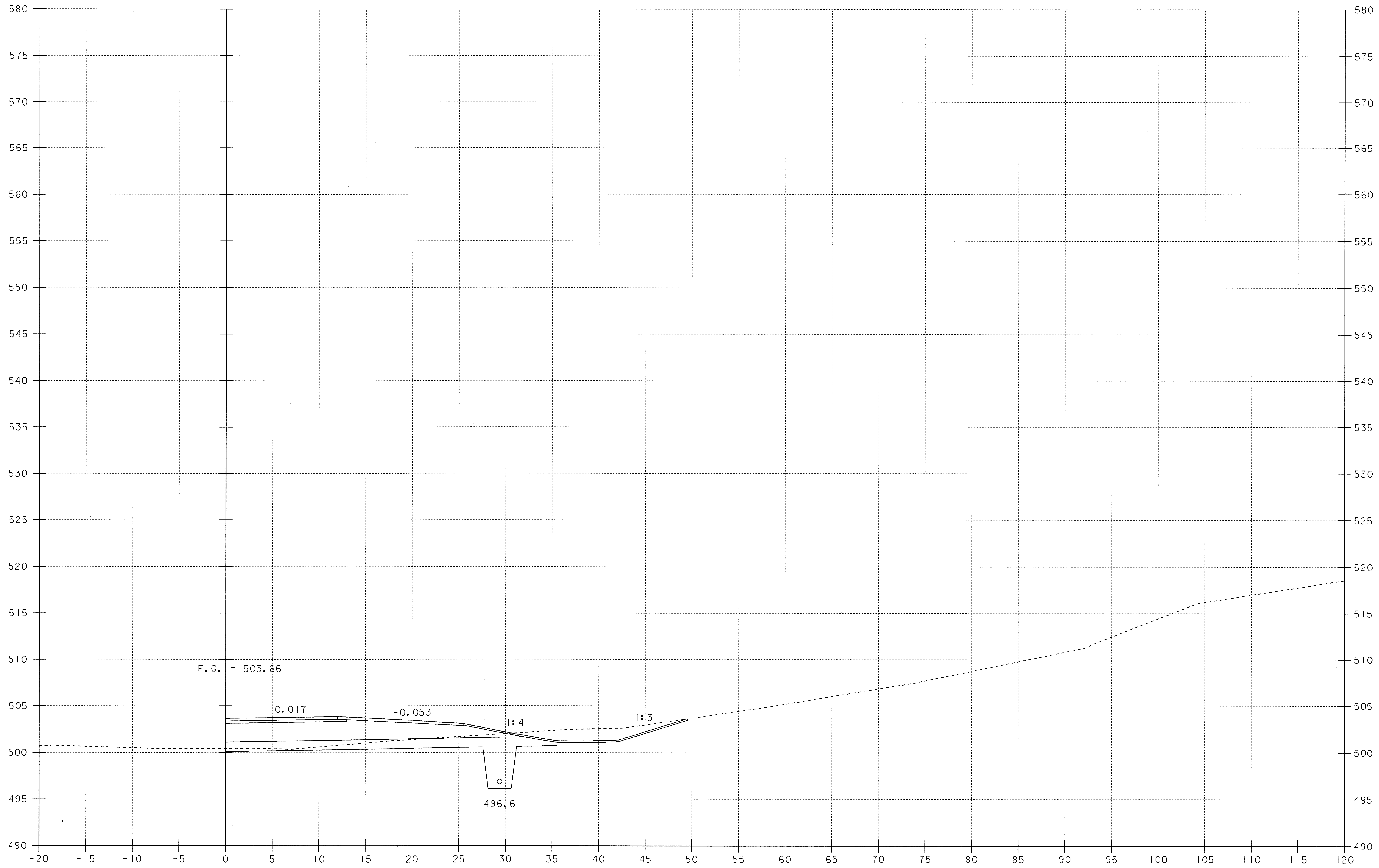
SCALE: 3" = 1'-0"

WALL FACING DETAILS

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32wfd.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR315

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 144C OF 243



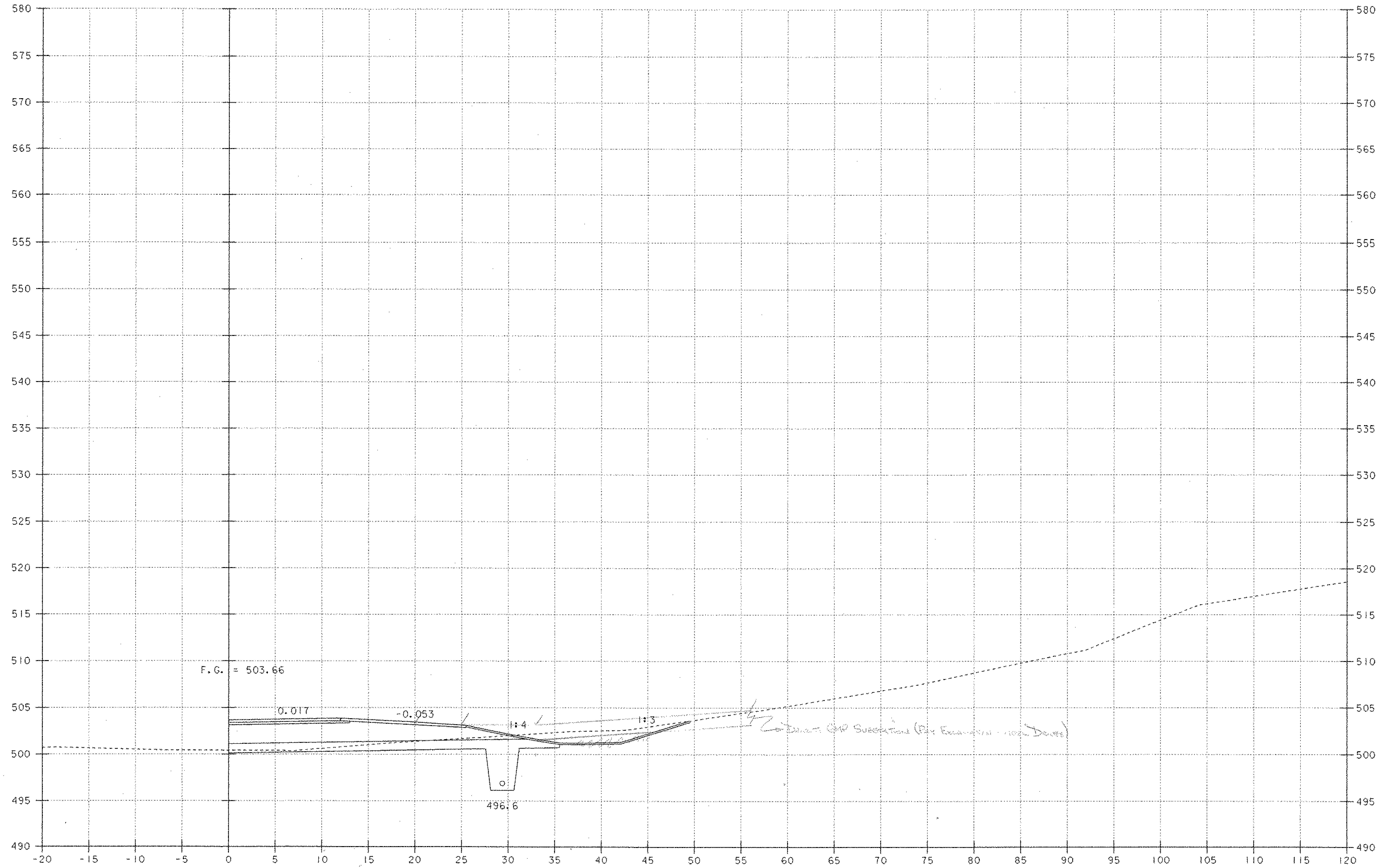
REV. 193+75

SCALE 1" = 5'-0

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+01.
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR316

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145A OF 243

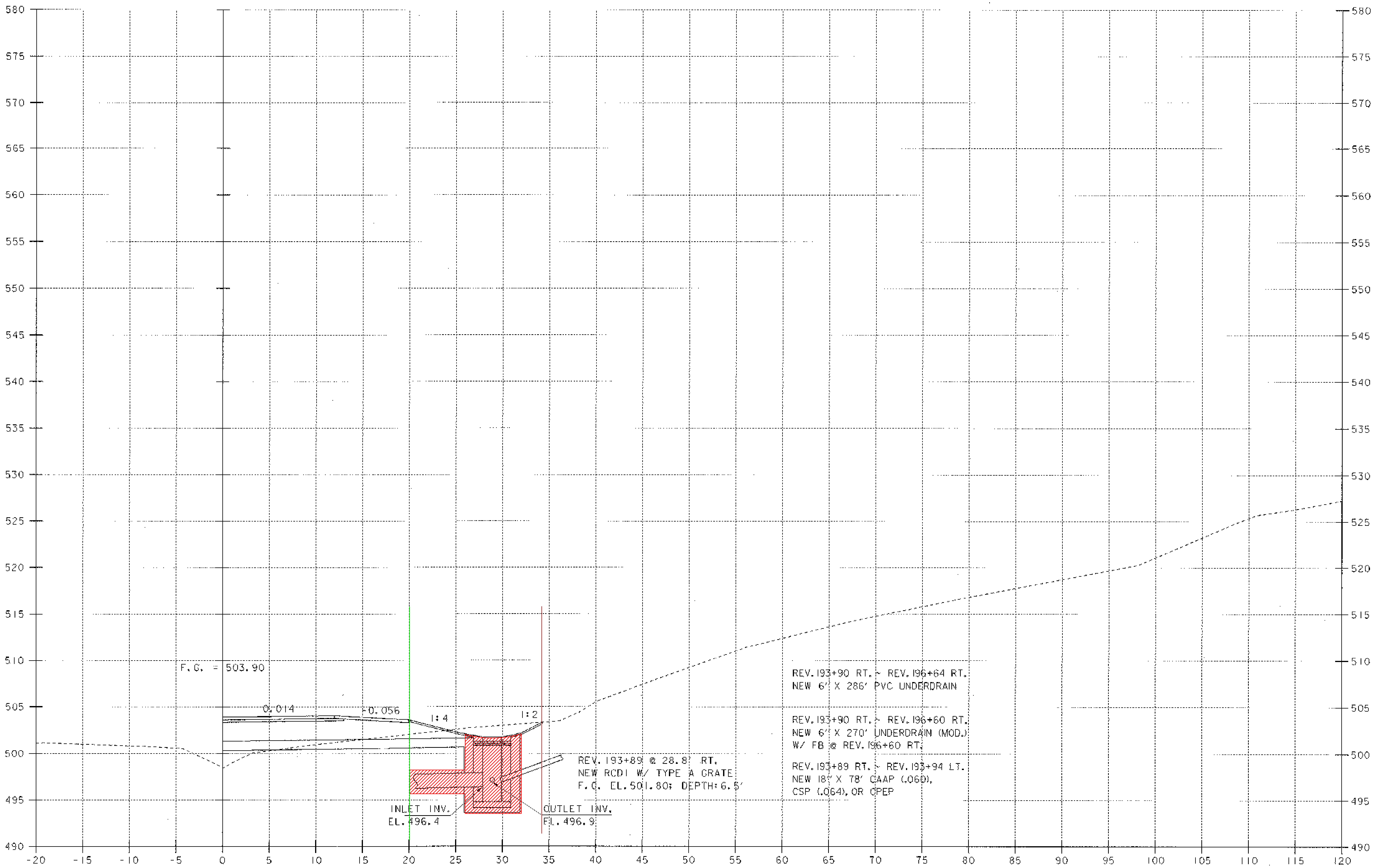


REV. 193+75

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t01.i	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR316	SHEET 145A OF 243



REV. 193+89 @ 28.8' RT.
NEW RCDI W/ TYPE A GRATE
F.G. EL. 501.80; DEPTH: 6.5'

REV. 193+90 RT. ~ REV. 196+64 RT.
NEW 6" X 286' PVC UNDERDRAIN

REV. 193+90 RT. ~ REV. 196+60 RT.
NEW 6" X 270' UNDERDRAIN (MOD.)
W/ FB @ REV. 196+60 RT.

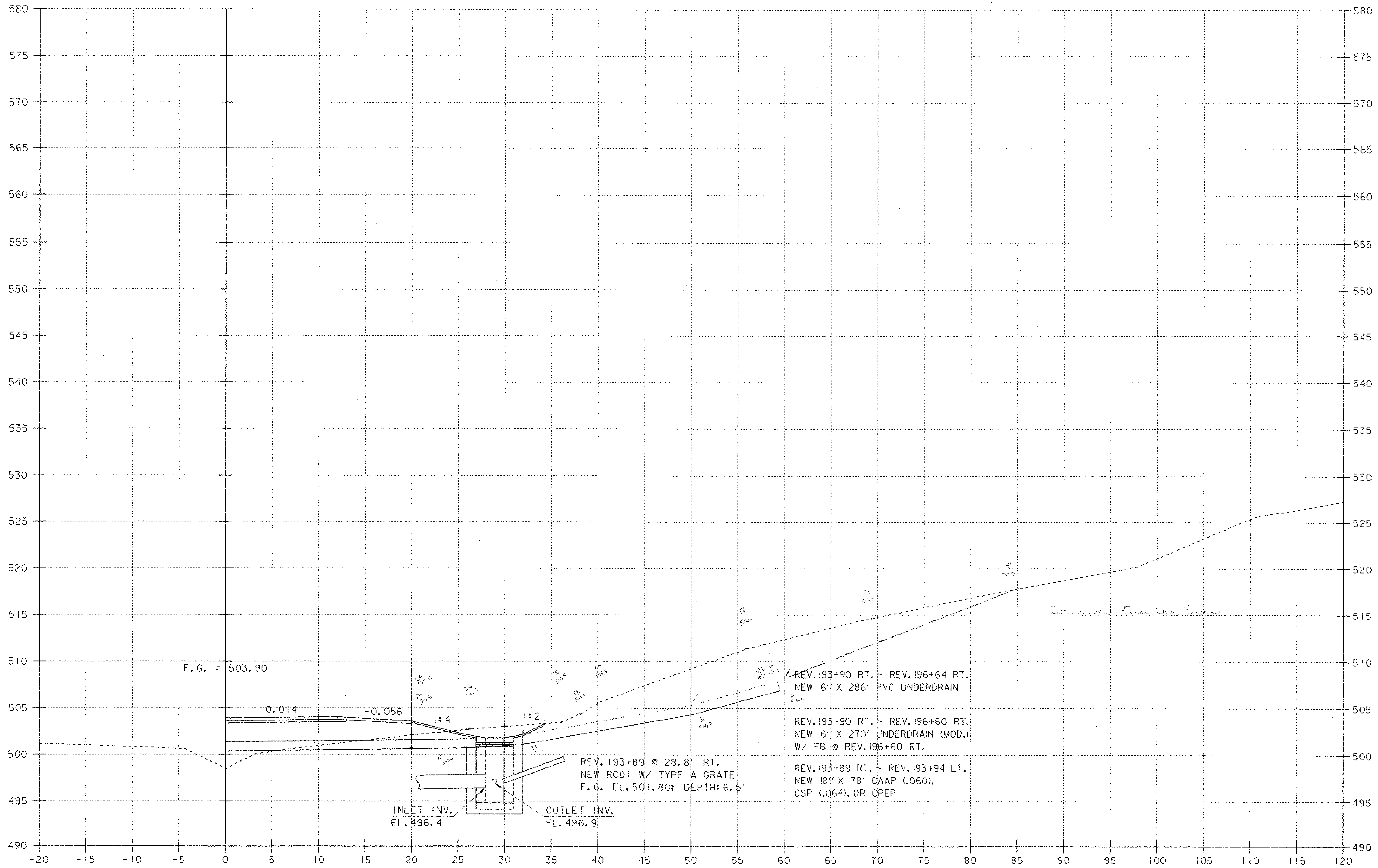
REV. 193+89 RT. ~ REV. 193+94 LT.
NEW 18" X 78' CAAP (.060),
CSP (.064), OR CPEP

REV. 193+89

SCALE 1" = 5'-0
5 0 5

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+02.1	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR317	SHEET 145B OF 243



F.G. = 503.90

REV. 193+89 @ 28.8' RT.
NEW RCDI W/ TYPE A GRATE
F.G. EL. 501.80; DEPTH: 6.5'

INLET INV.
EL. 496.4

OUTLET INV.
EL. 496.9

REV. 193+90 RT. ~ REV. 196+64 RT.
NEW 6" X 286' PVC UNDERDRAIN

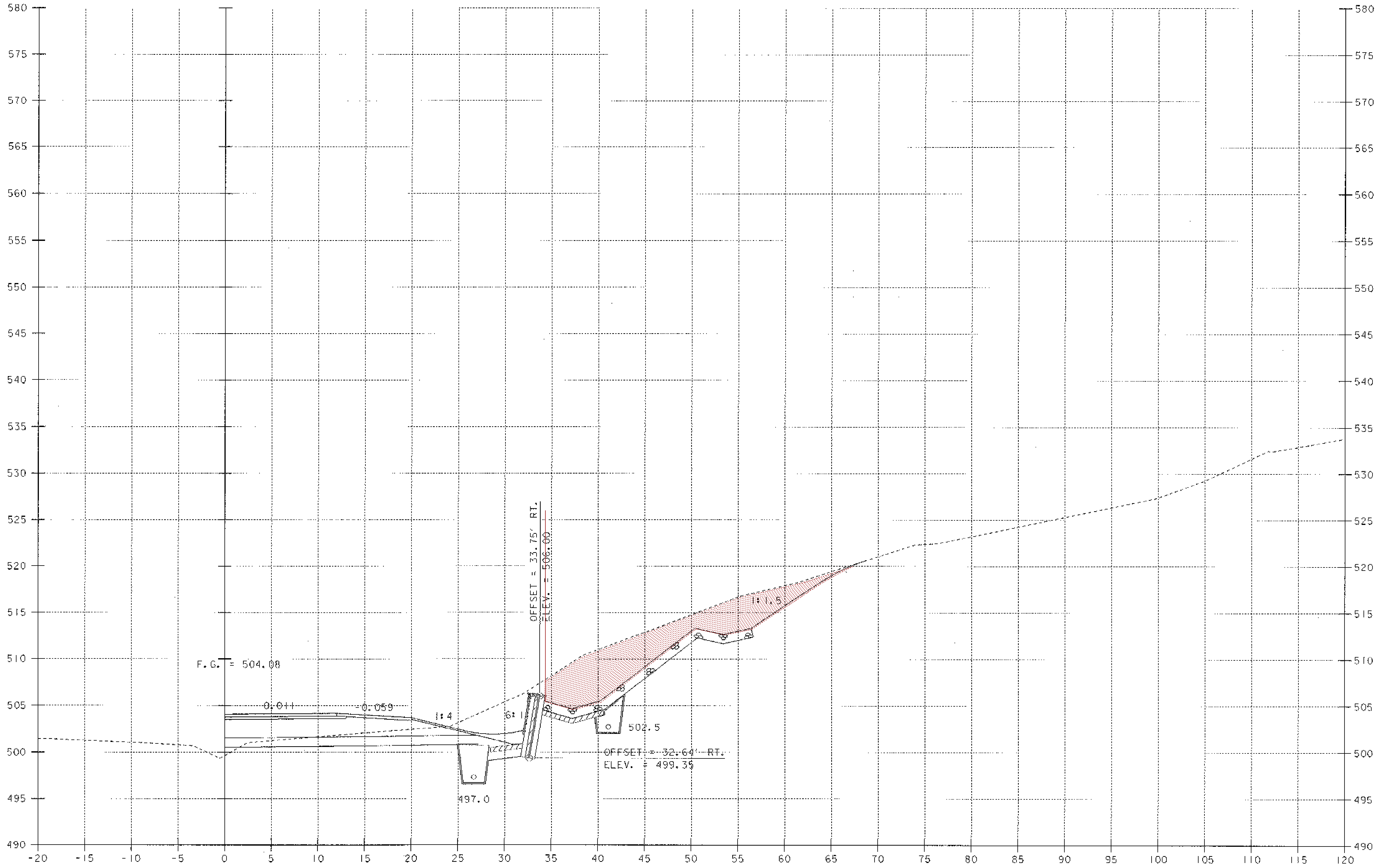
REV. 193+90 RT. ~ REV. 196+60 RT.
NEW 6" X 270' UNDERDRAIN (MOD.)
W/ FB @ REV. 196+60 RT.

REV. 193+89 RT. ~ REV. 193+94 LT.
NEW 18" X 78' CAAP (.060),
CSP (.064), OR CPEP

REV. 193+89

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN	
PROJECT NUMBER: STP EGC RSEGC 0167 (9)	
FILE NAME: \78e132\Structures\se132+02.1	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR317	SHEET 145B OF 243



REV. 193+87 RT.
BEGIN STRUCTURE EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE I

REV. 194+00

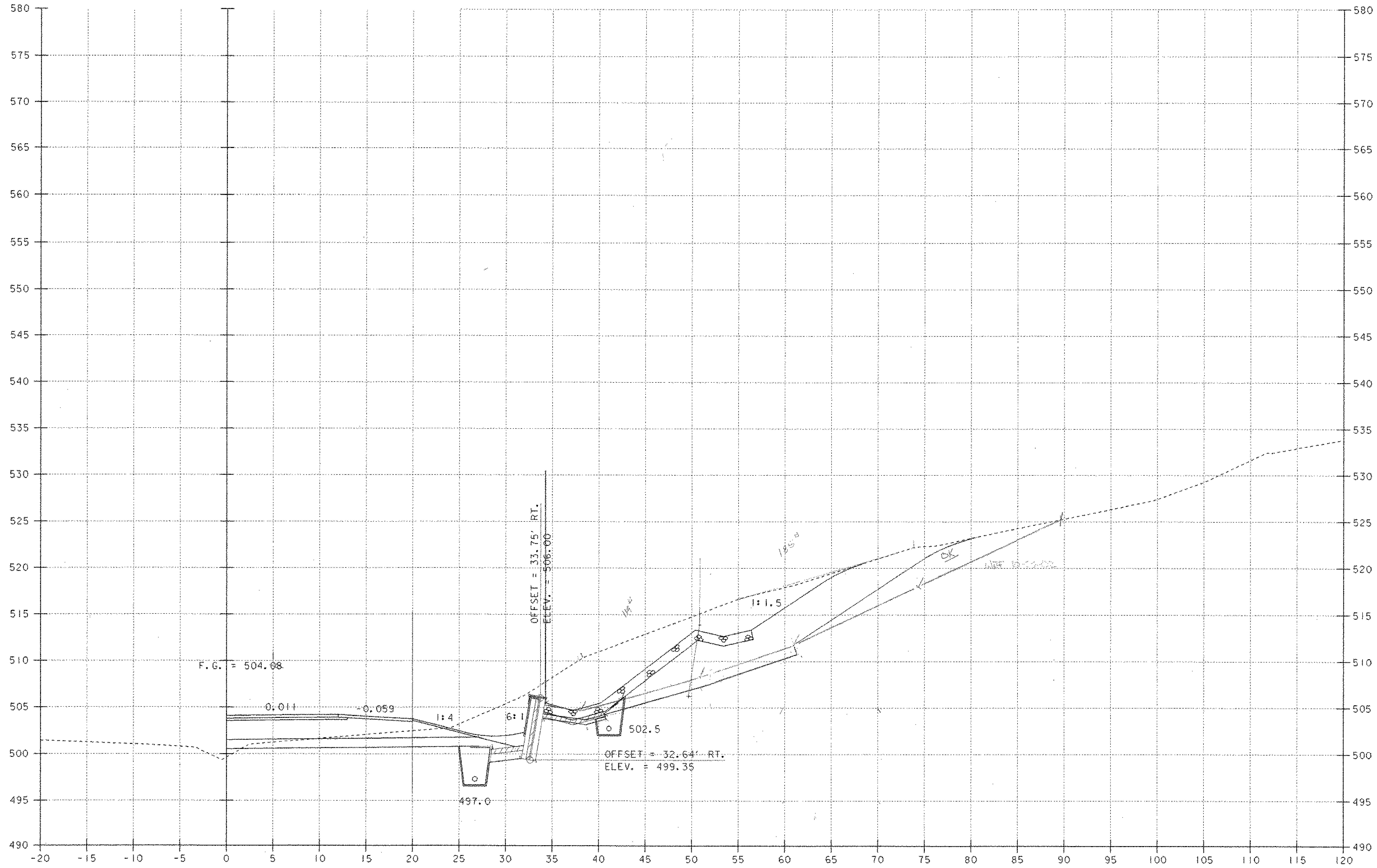
SCALE 1" = 5'-0
5 0 5

REV. 194+00 RT.
BEGIN RETAINING WALL NO.3

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+03.I
PROJECT LEADER: R.R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR318

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145C OF 243



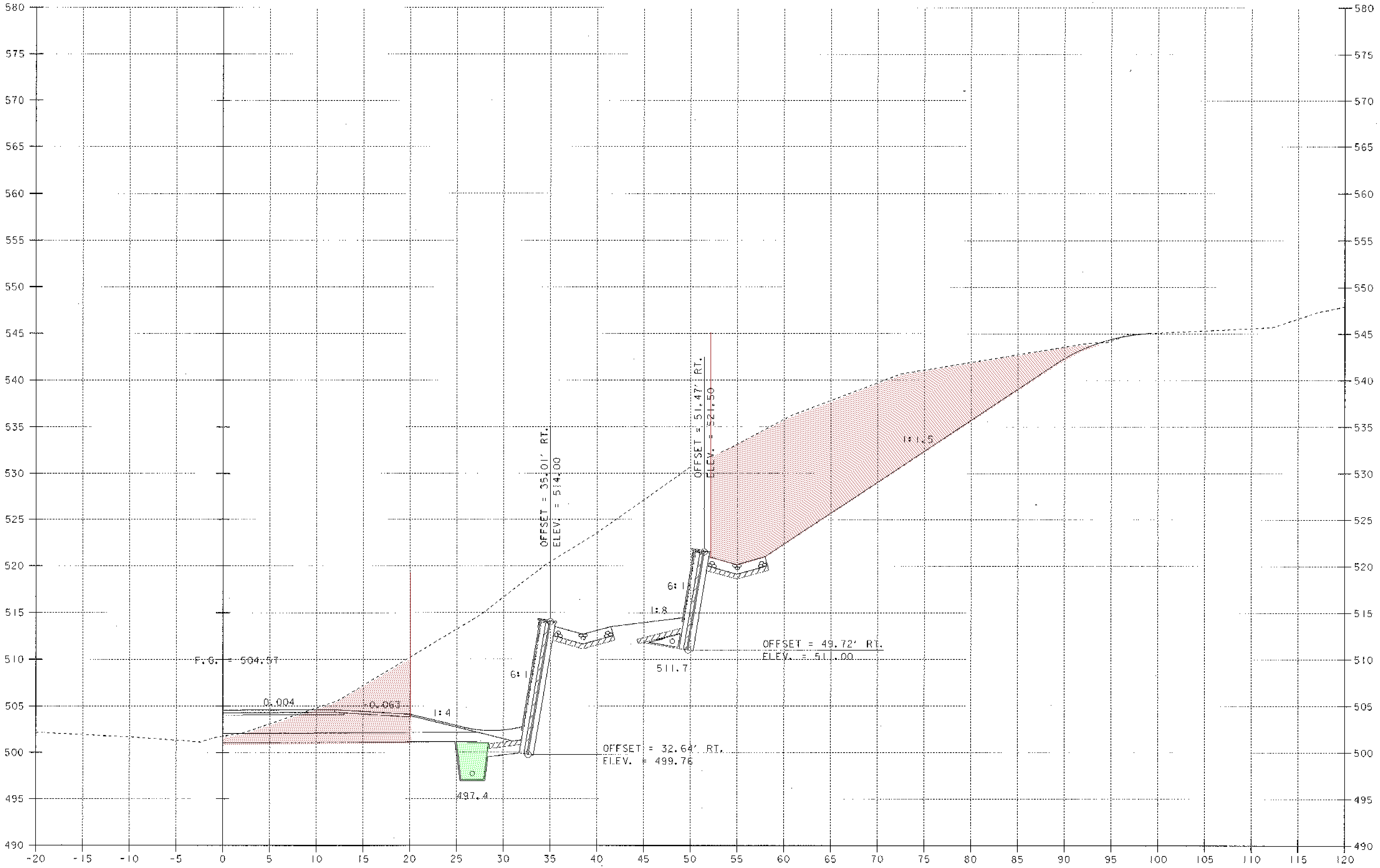
REV. 194+00

REV. 193+87 RT.
BEGIN STRUCTURE EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE I

SCALE 1" = 5'-0

REV. 194+00 RT.
BEGIN RETAINING WALL NO. 3

PROJECT NAME: MORETOWN	
PROJECT NUMBER: STP EGC RSEGC 0167 (9)	
FILE NAME: \78el32\Structures\sel32+03.I	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR318	SHEET 145C OF 243



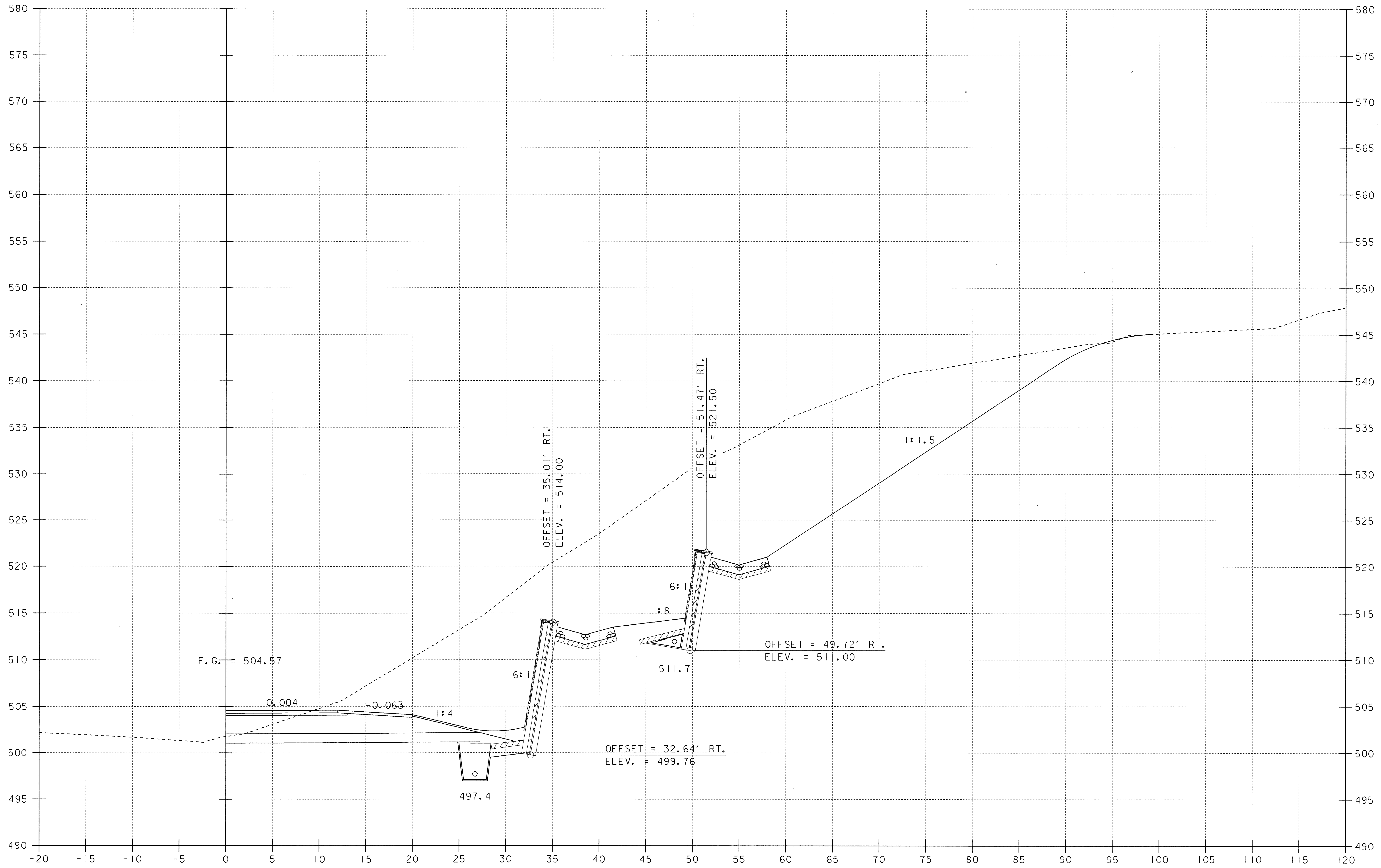
REV. 194+25

SCALE 1" = 5'-0
5 0 5

REV. 194+10 RT.
BEGIN RETAINING WALL NO. 2

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78ol32\Strucfures\sel32t04.1 PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR319 SHEET 145D OF 243



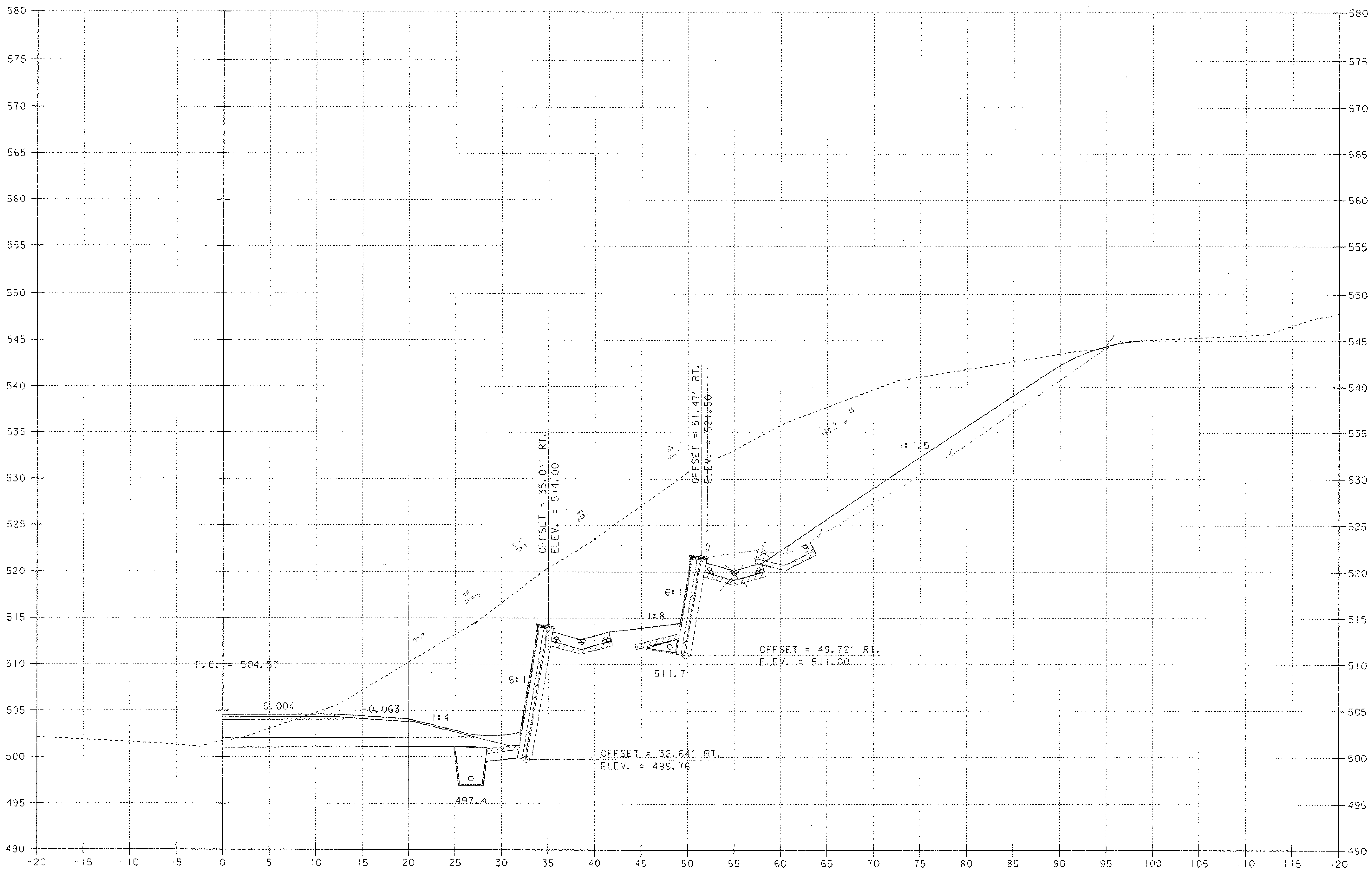
REV. 194+25

SCALE 1" = 5'-0
5 0 5

REV. 194+10 RT.
BEGIN RETAINING WALL NO. 2

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+04.i PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR319 SHEET 145D OF 243



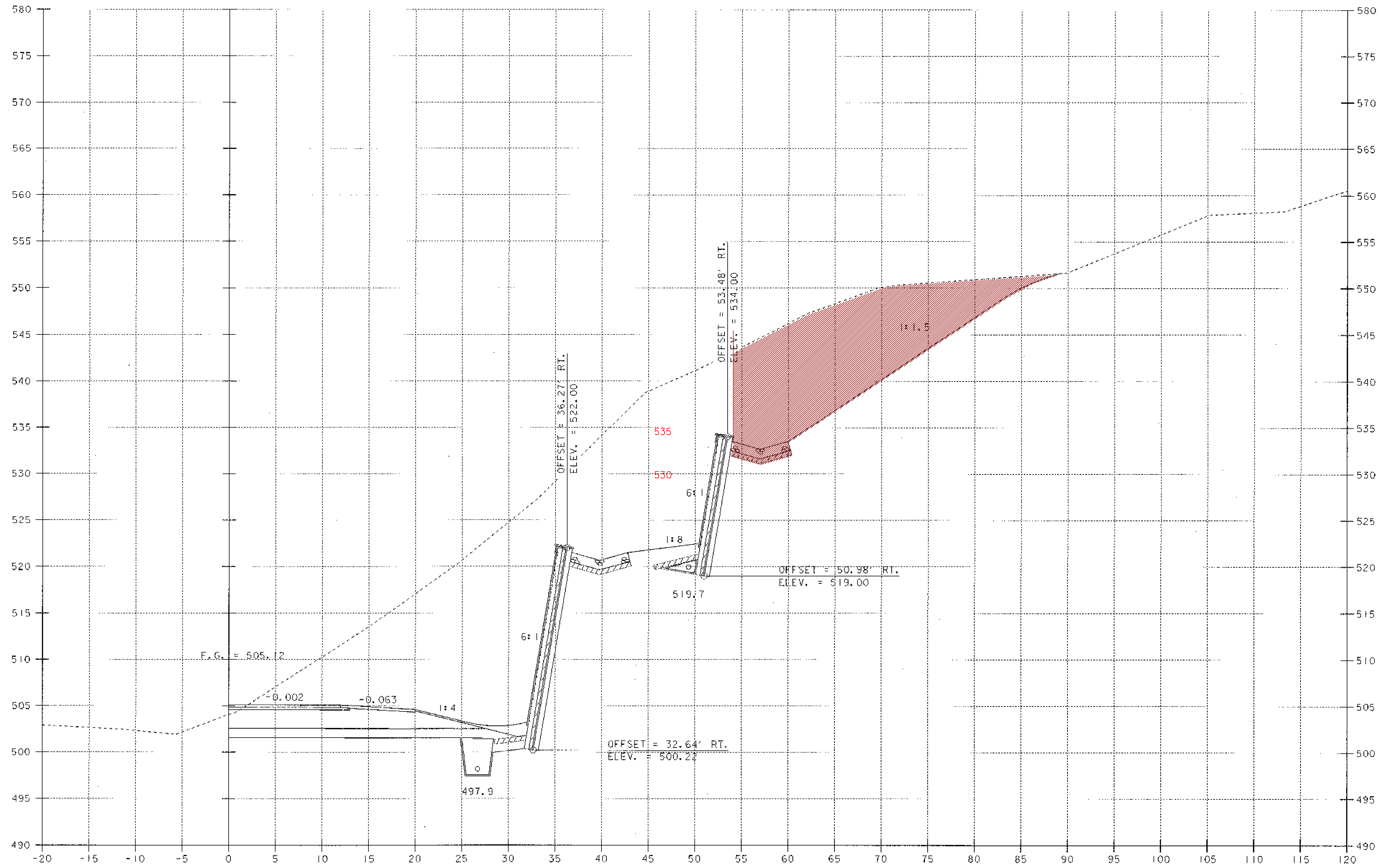
REV. 194+25

REV. 194+10 RT.
BEGIN RETAINING WALL NO. 2

SCALE 1" = 5'-0
5 0 5

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+04.i PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR319 SHEET 145D OF 243

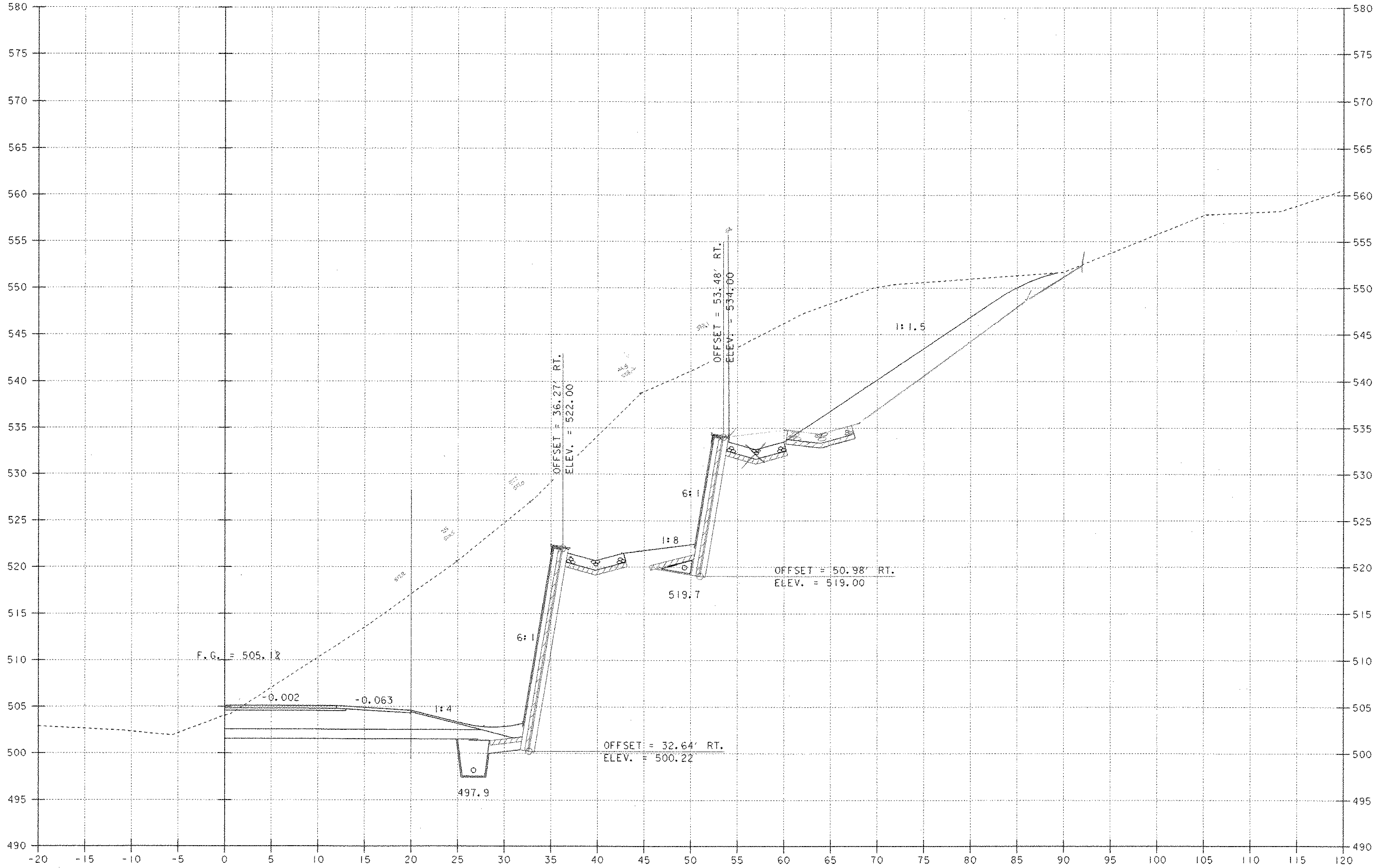


REV. 194+50

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+05.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR320
SHEET 145E OF 243



REV. 194+50

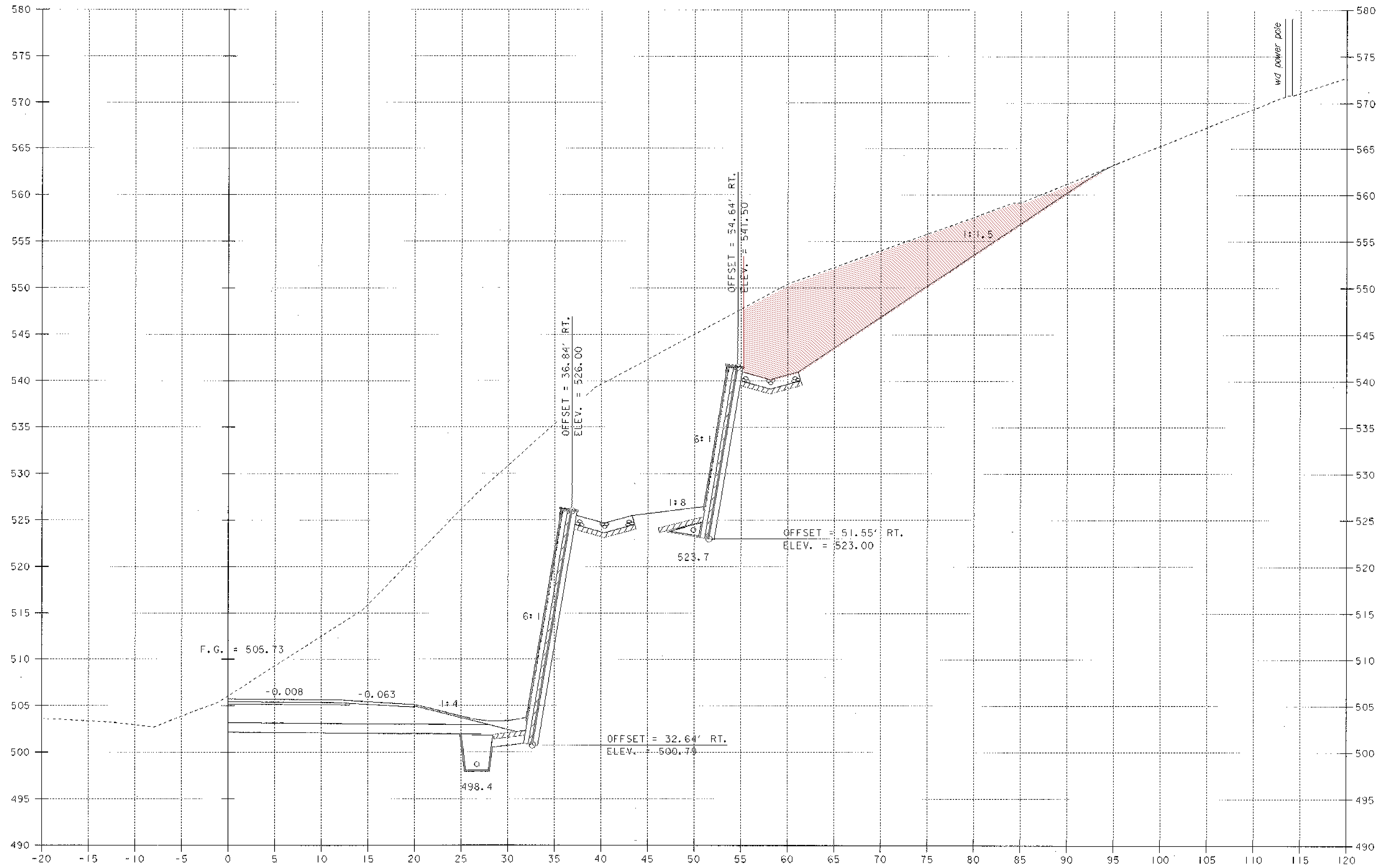
SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+05.1
PROJECT LEADER: R.R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR320

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145E OF 243

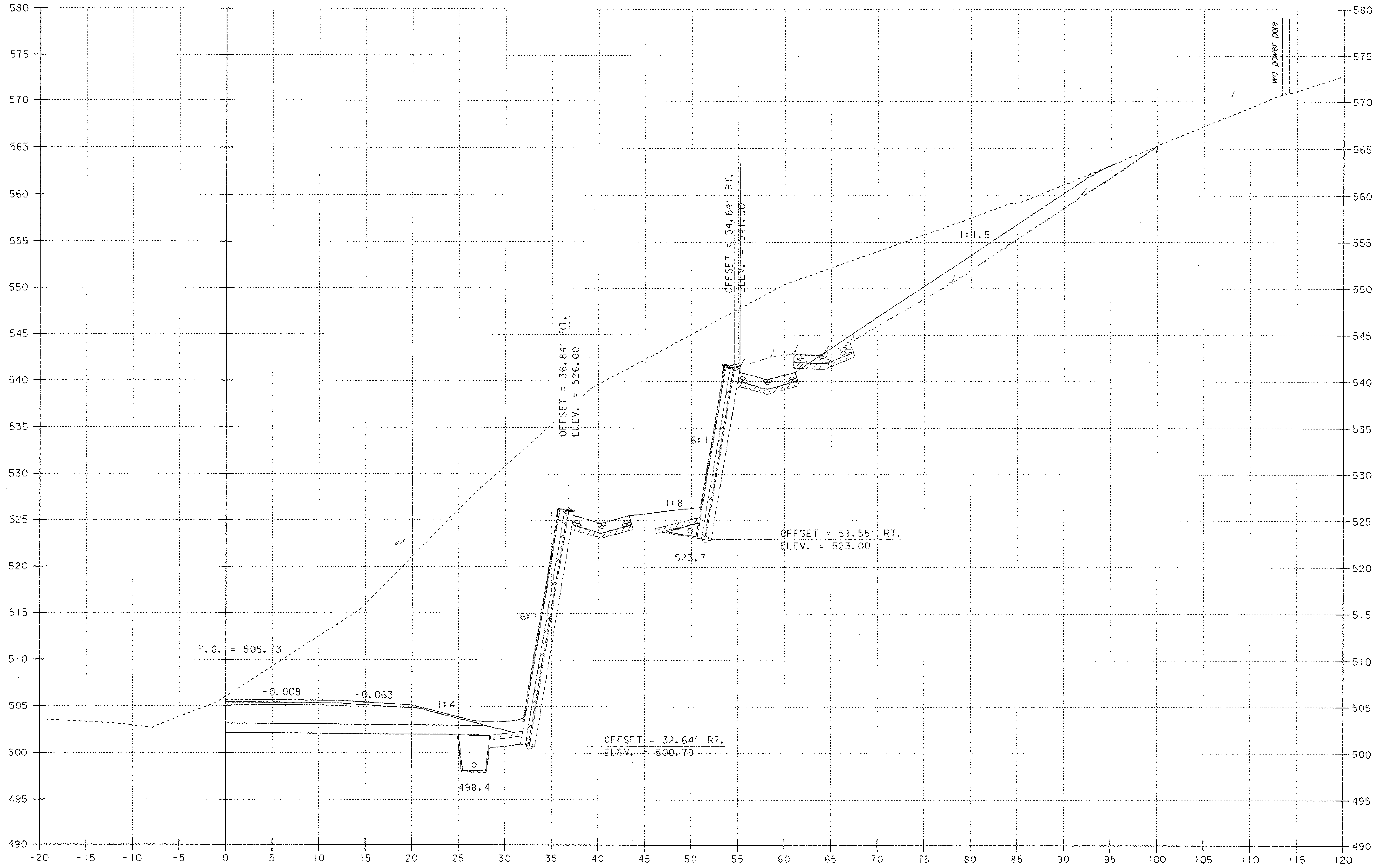


REV. 194+75

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \T8e132\Structures\se132+06.i PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR321 SHEET 145F OF 243

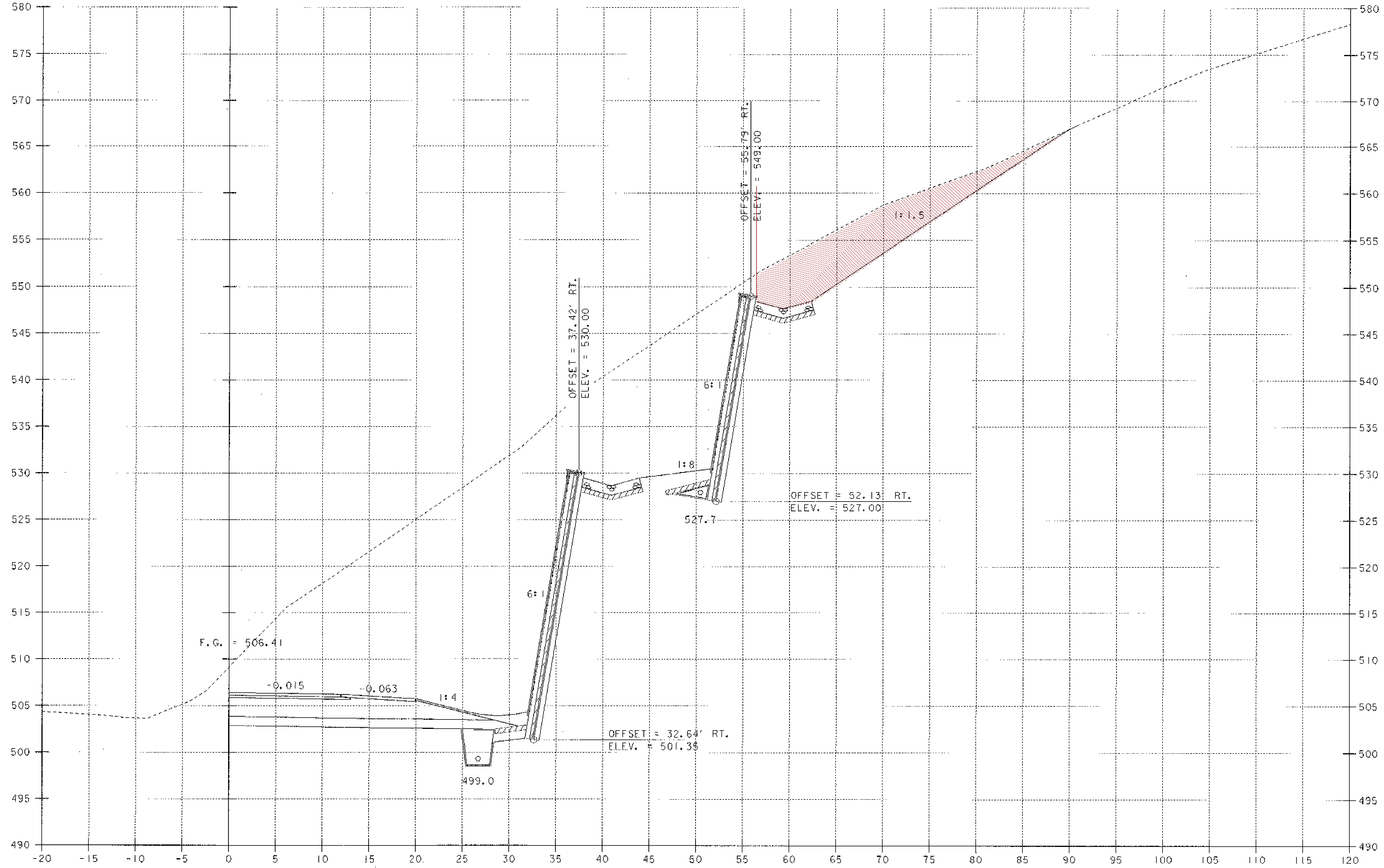


REV. 194+75

SCALE 1" = 5'-0

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+06.l	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR321	SHEET 145F OF 243

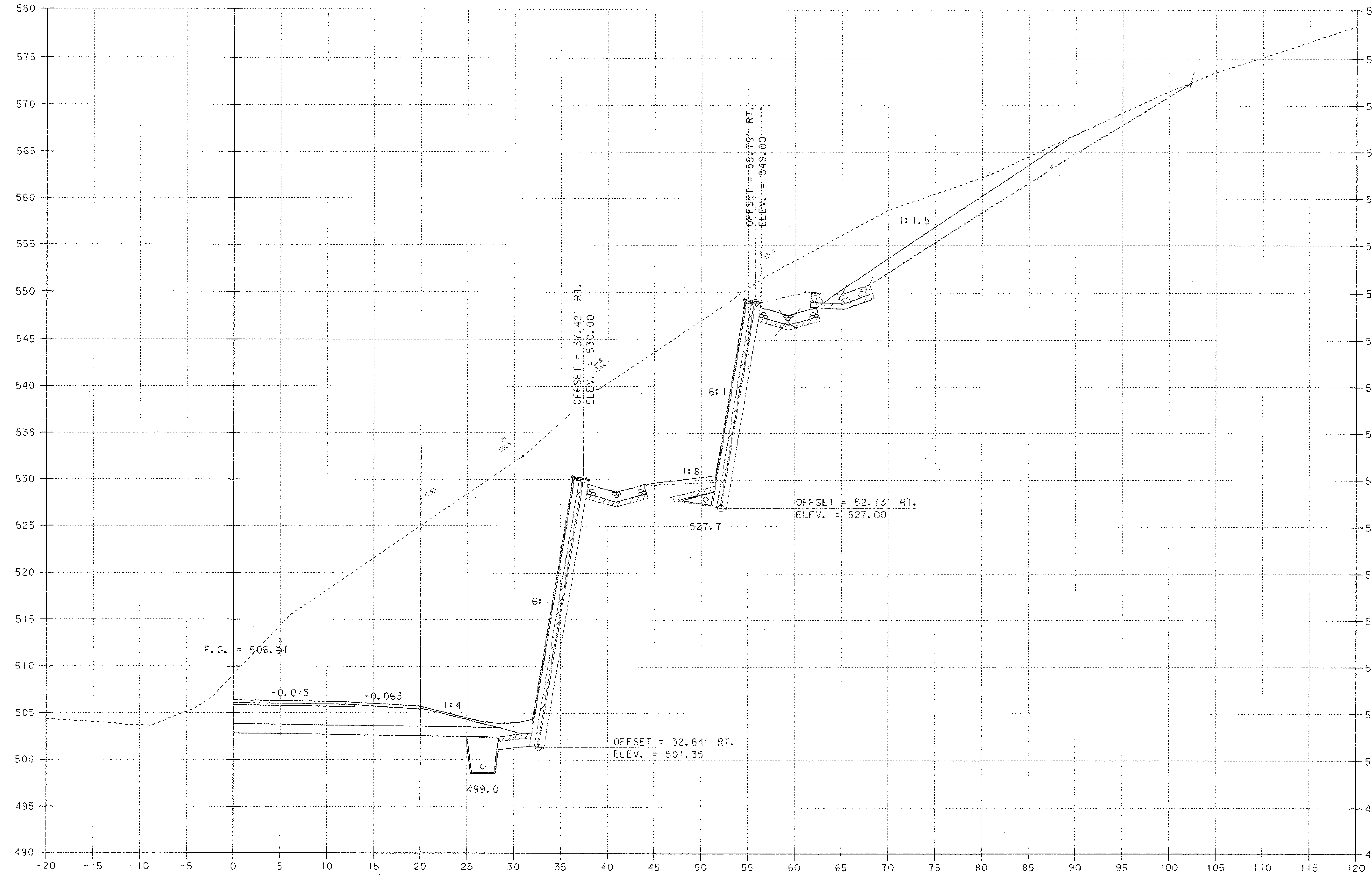


REV. 195+00

SCALE 1" = 5'-0

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+07.I
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR322
SHEET 145G OF 243

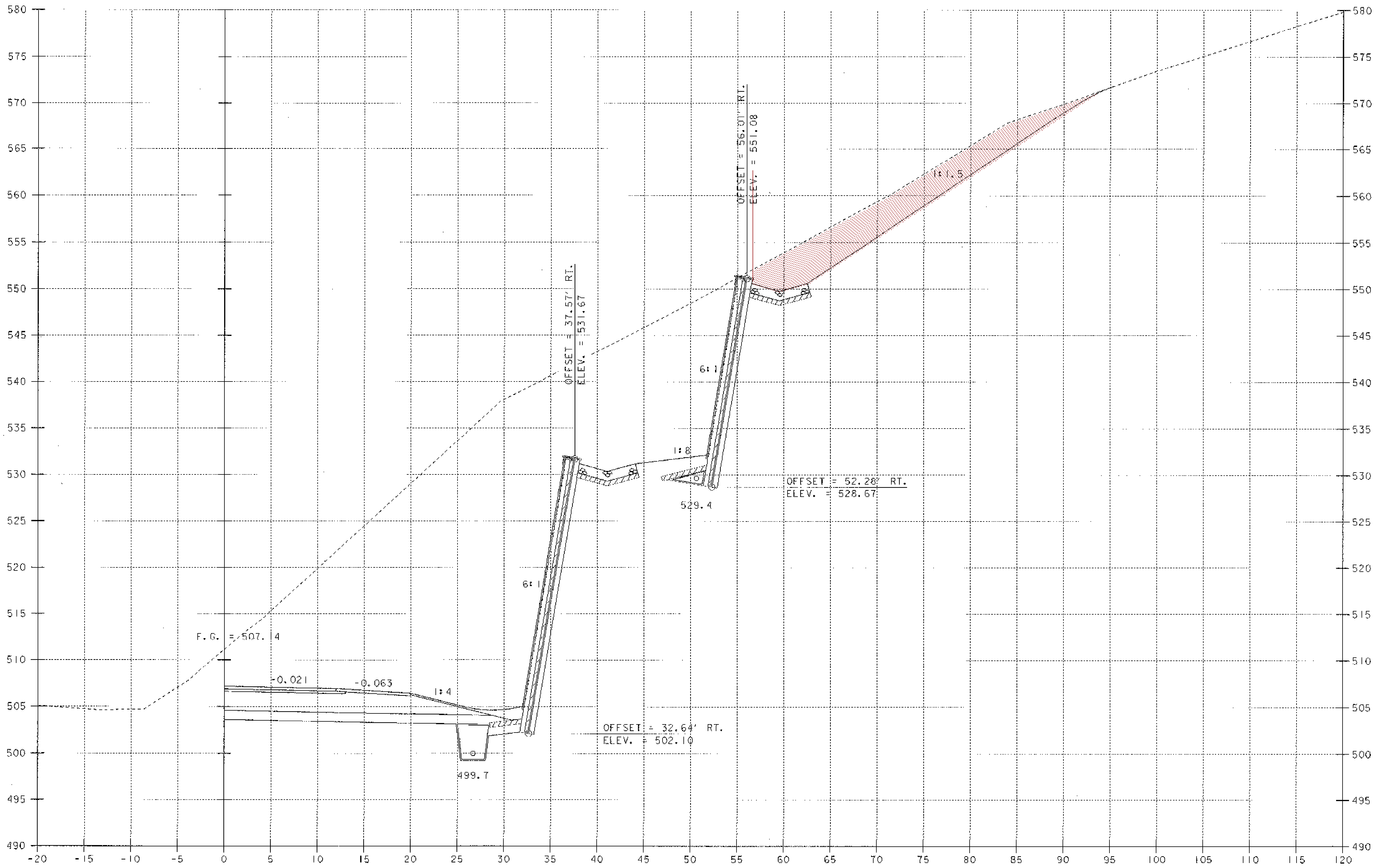


REV. 195+00

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+07.I PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR322 SHEET 145G OF 243



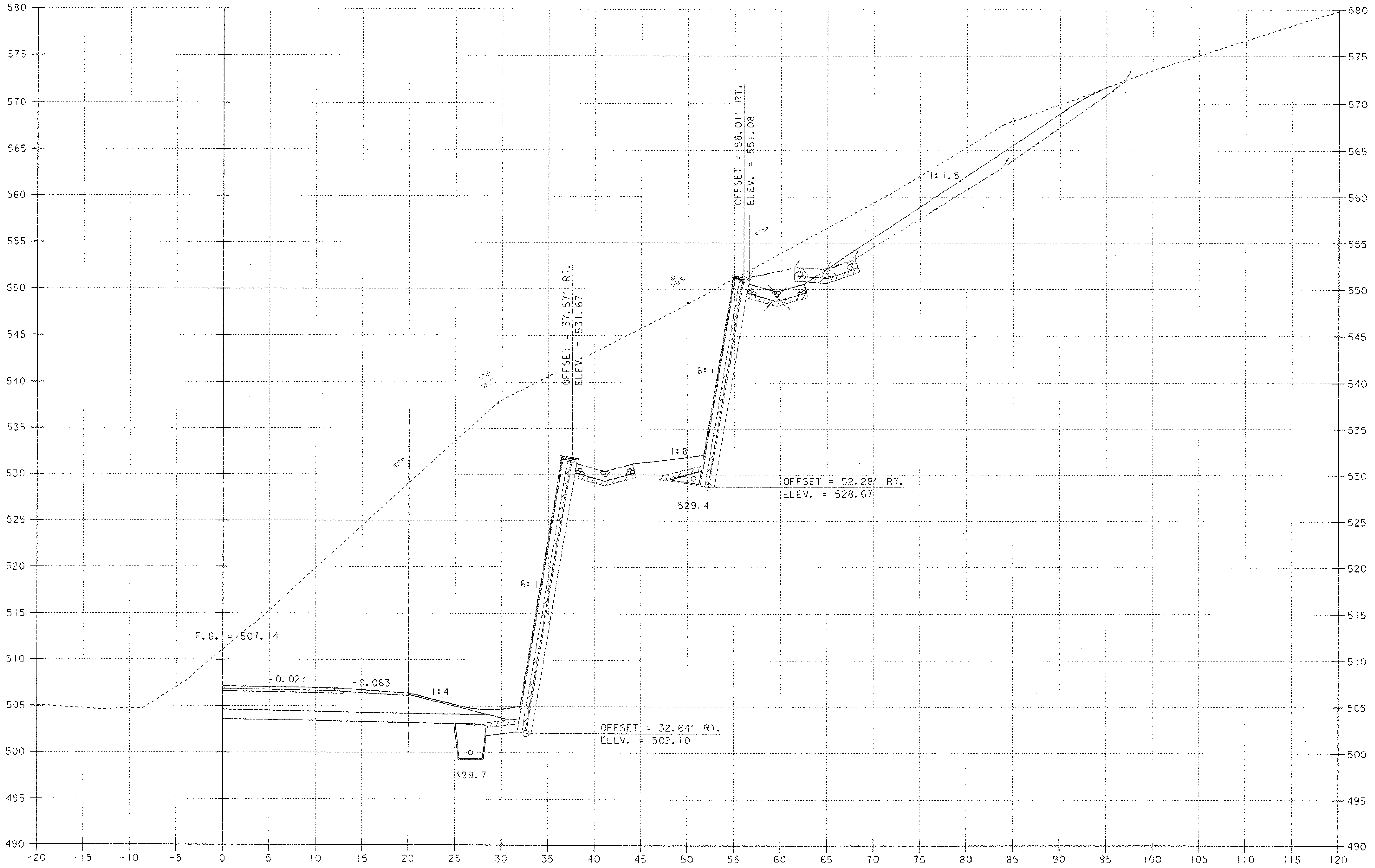
REV. 195+25

SCALE 1" = 5'-0

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+08.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR323

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145H OF 243

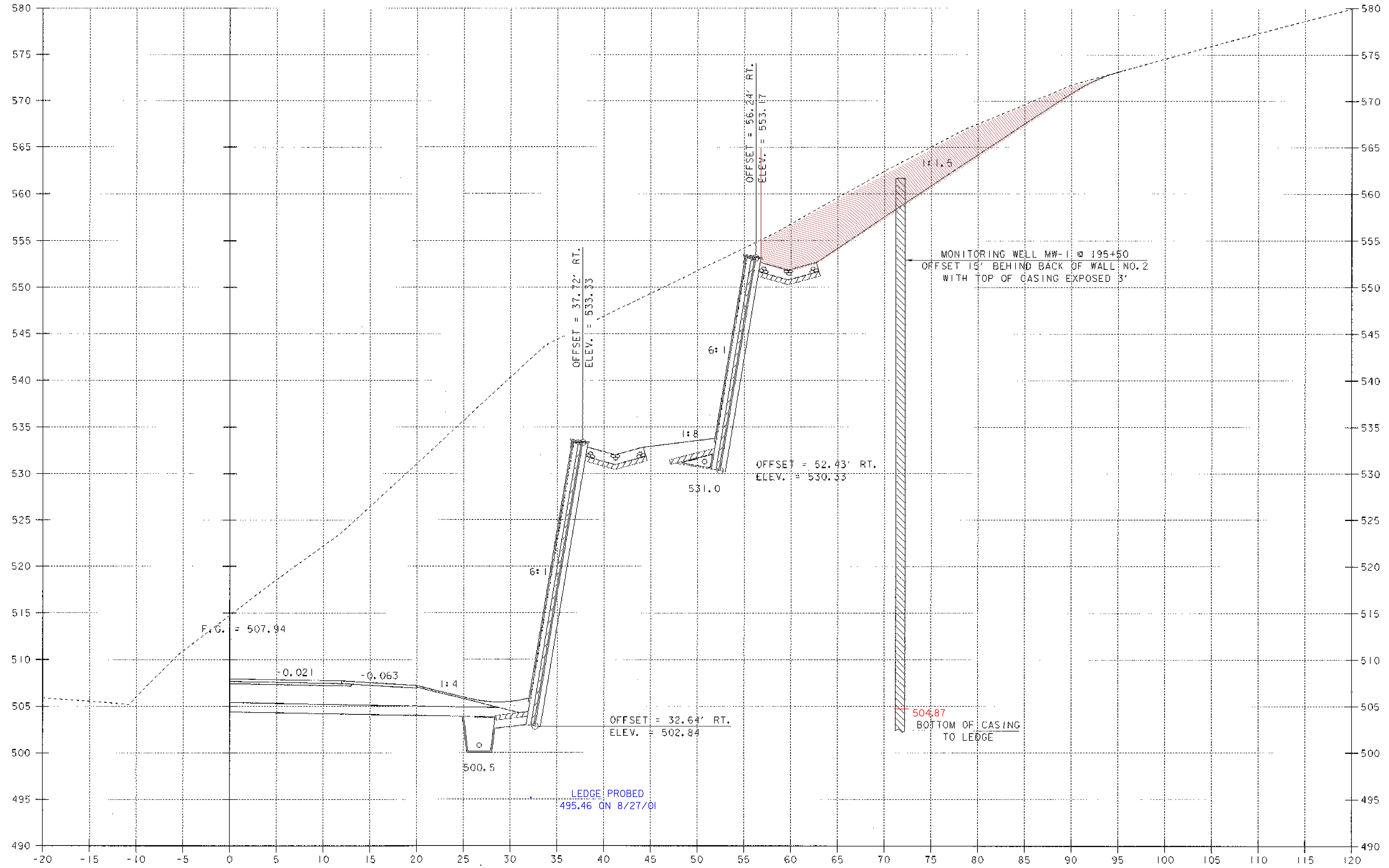


REV. 195+25

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+08.l PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR323 SHEET 145H OF 243

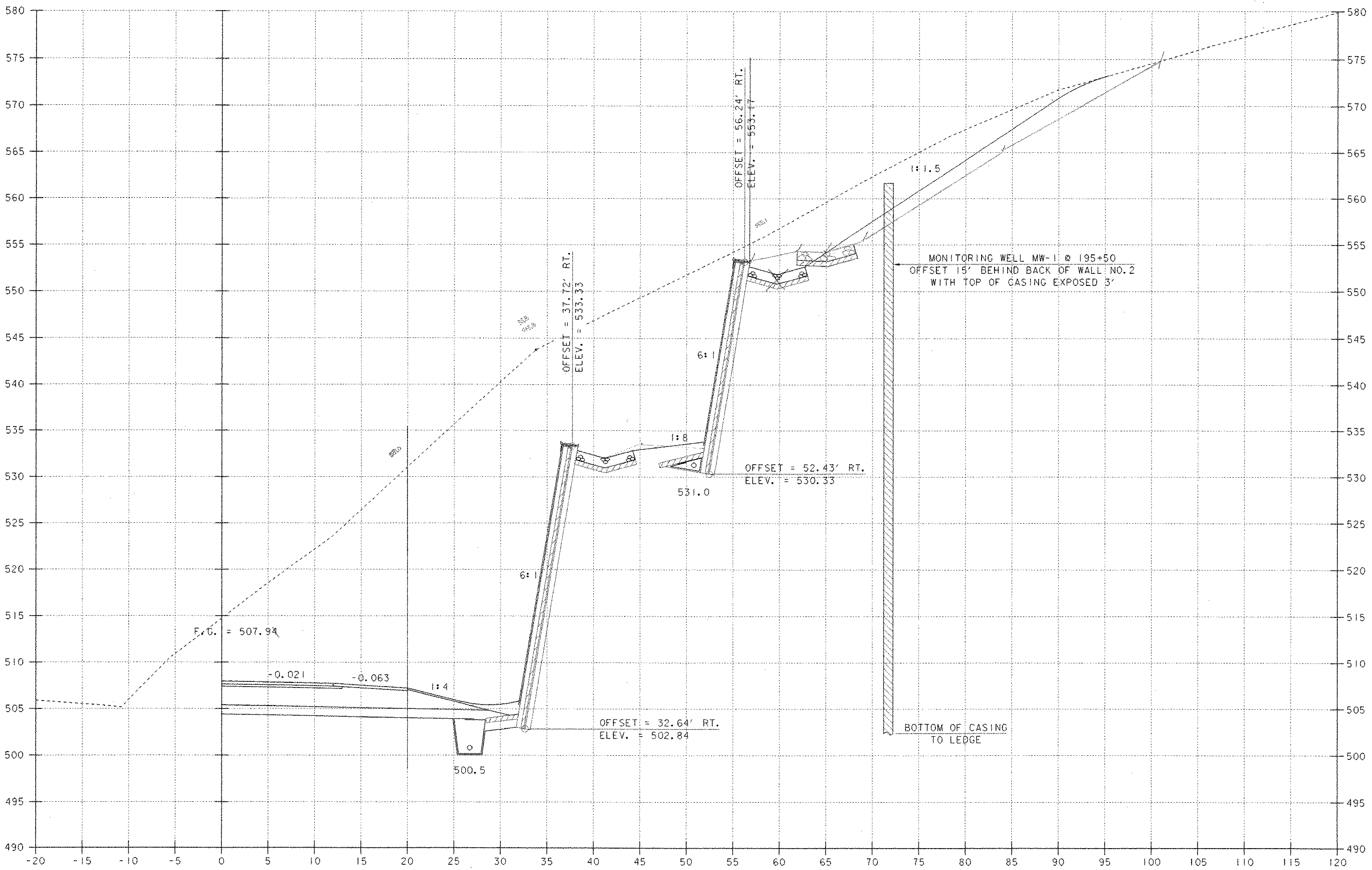


REV. 195+50

SCALE 1" = 5'-0

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t09.1
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR324
SHEET 1451 OF 243



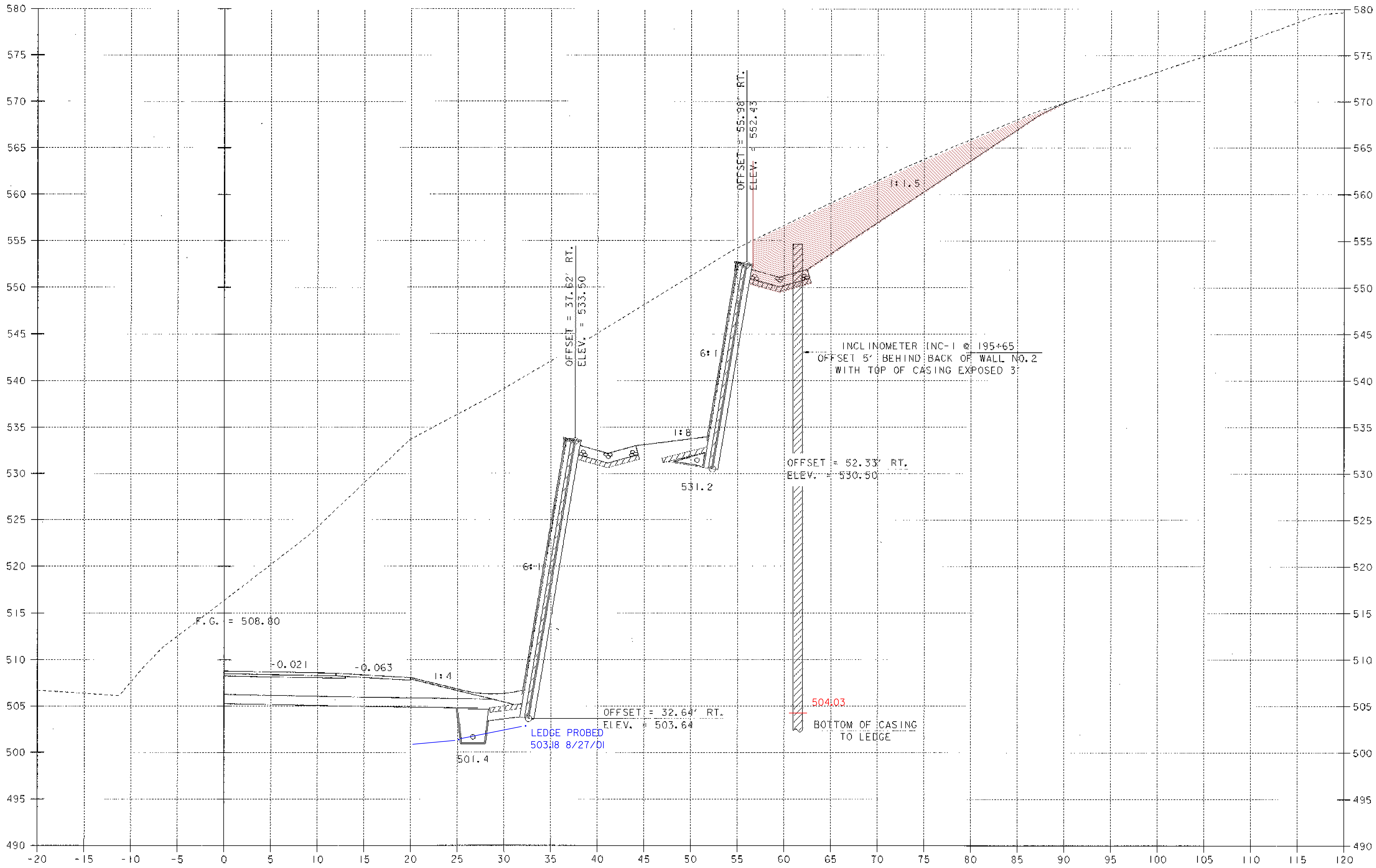
REV. 195+50

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+09.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR324

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 1451 OF 243



REV. 195+75

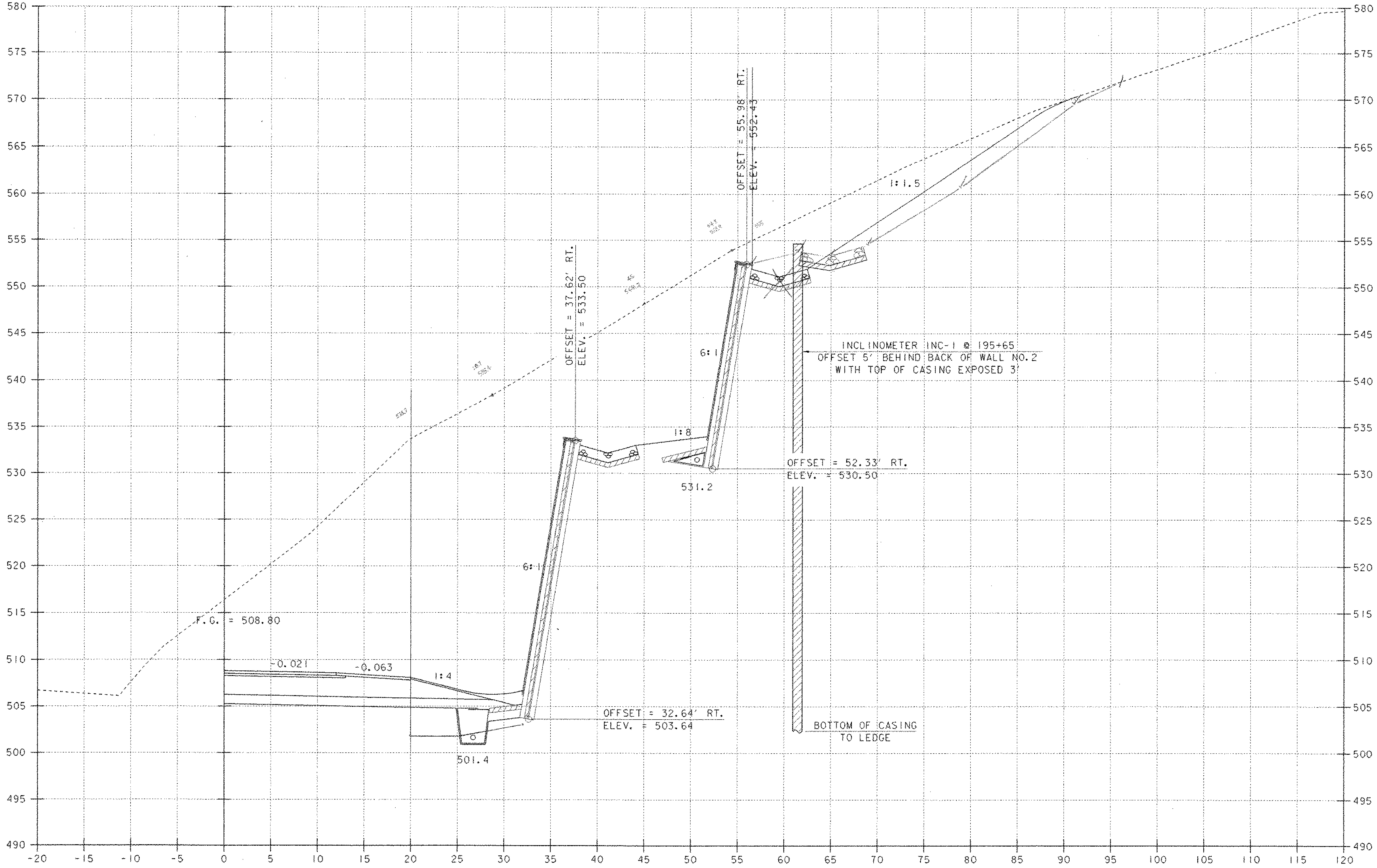
SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+10.I
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR325

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145J OF 243

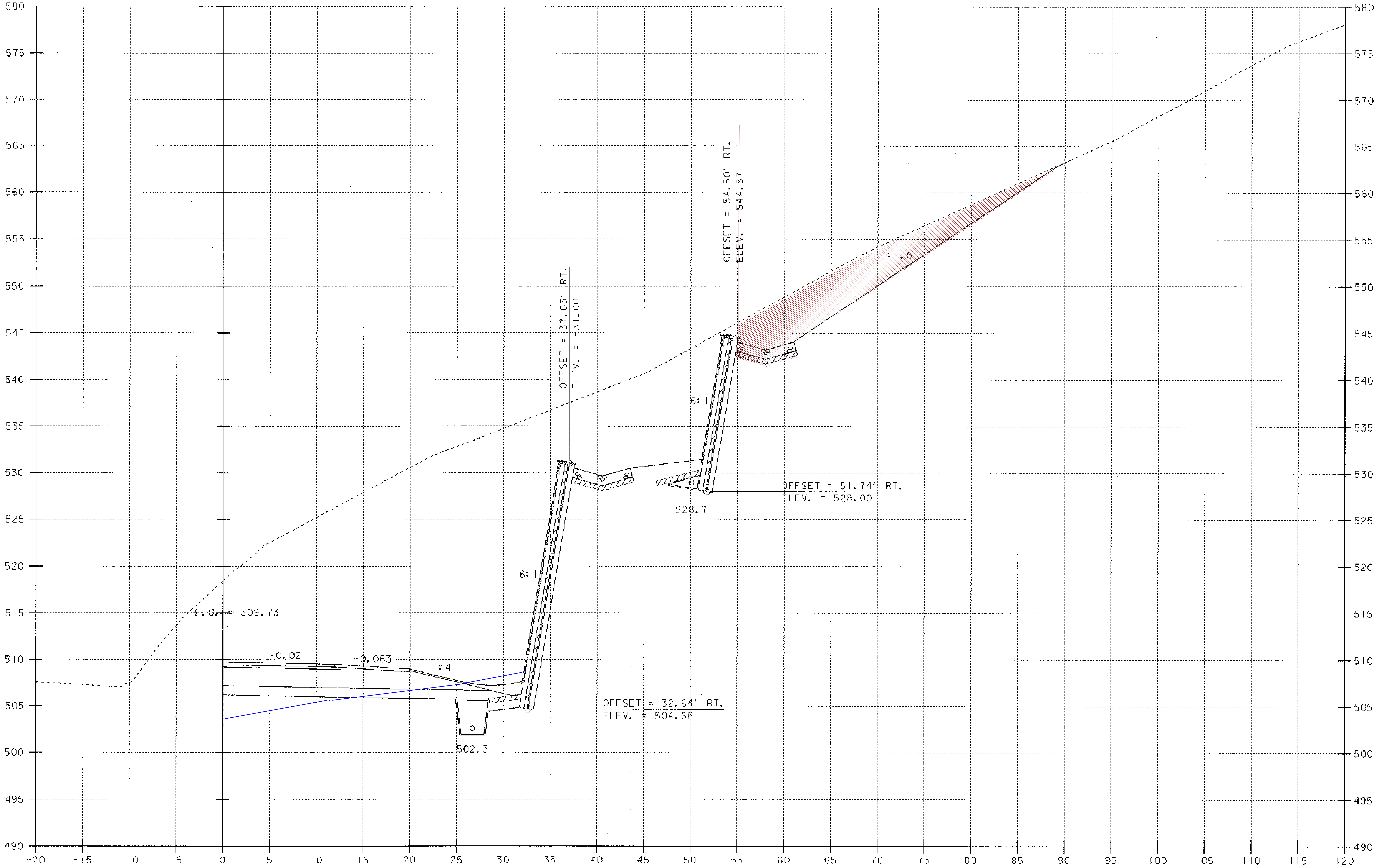


REV. 195+75

SCALE 1" = 5'-0

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+10.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR325
SHEET 145J OF 243



REV. 196+00

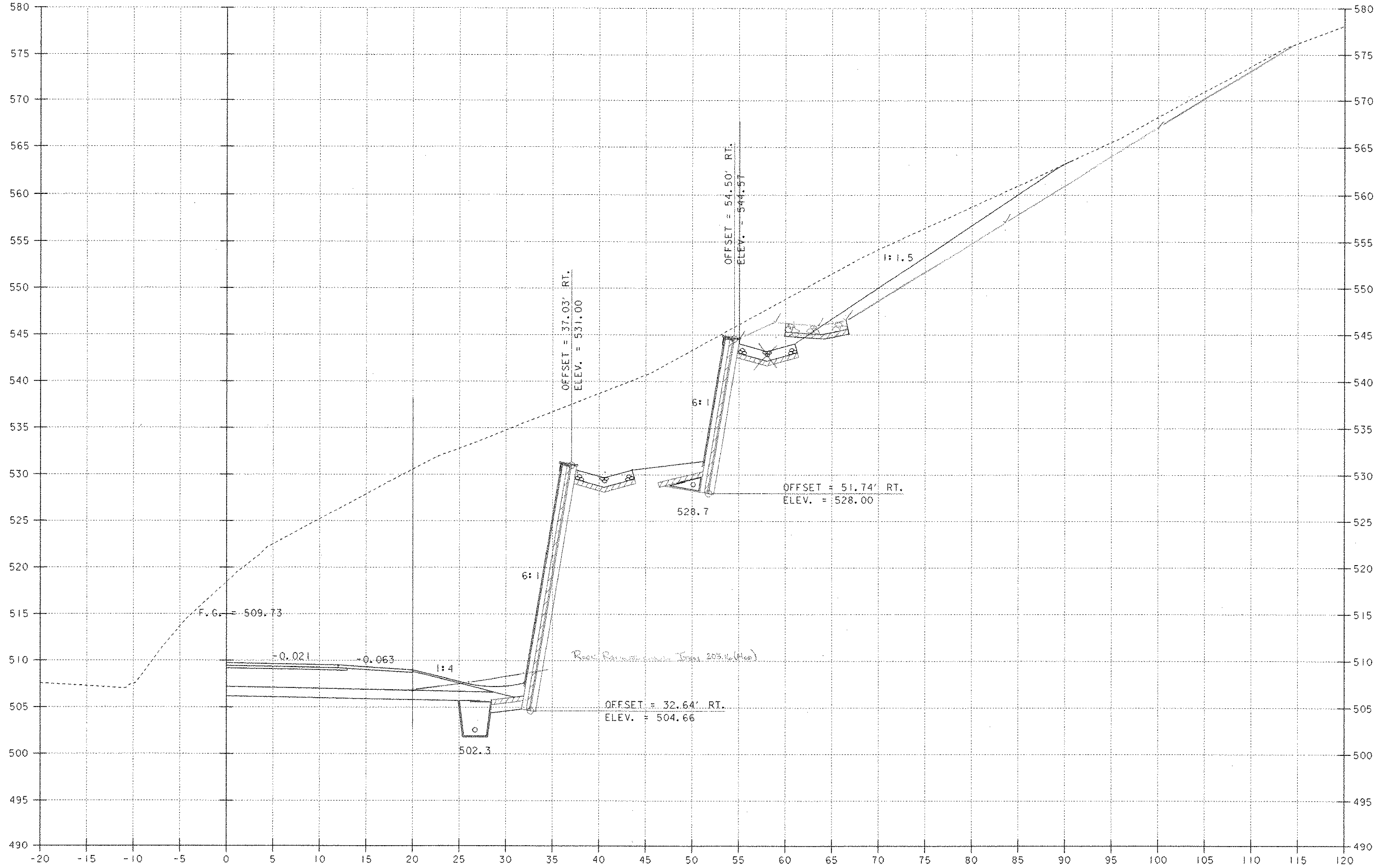
SCALE 1" = 5'-0

5 0 5

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+1Li
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR326

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145K OF 243



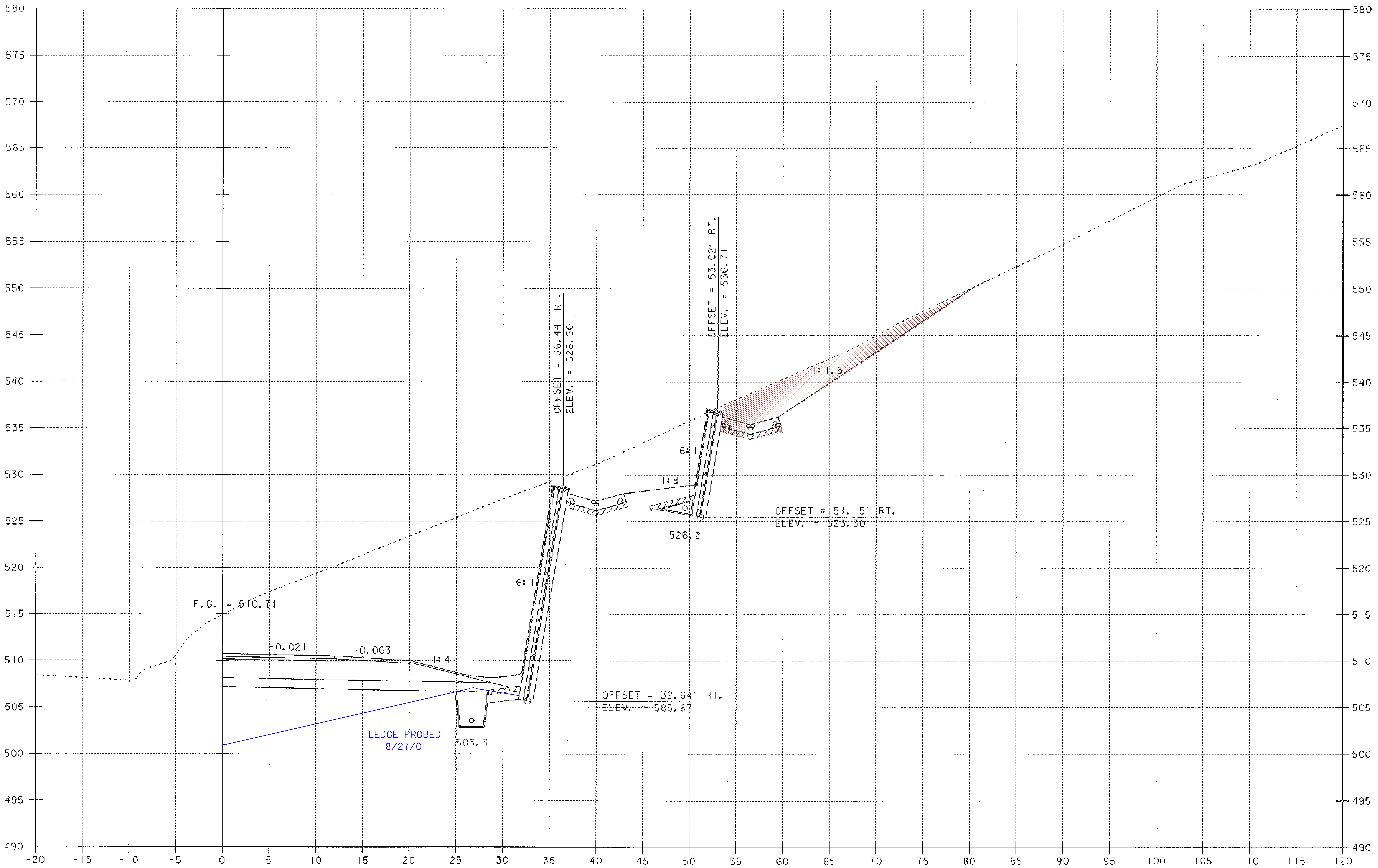
REV. 196+00

SCALE 1" = 5'-0

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+11.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR326

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145K OF 243



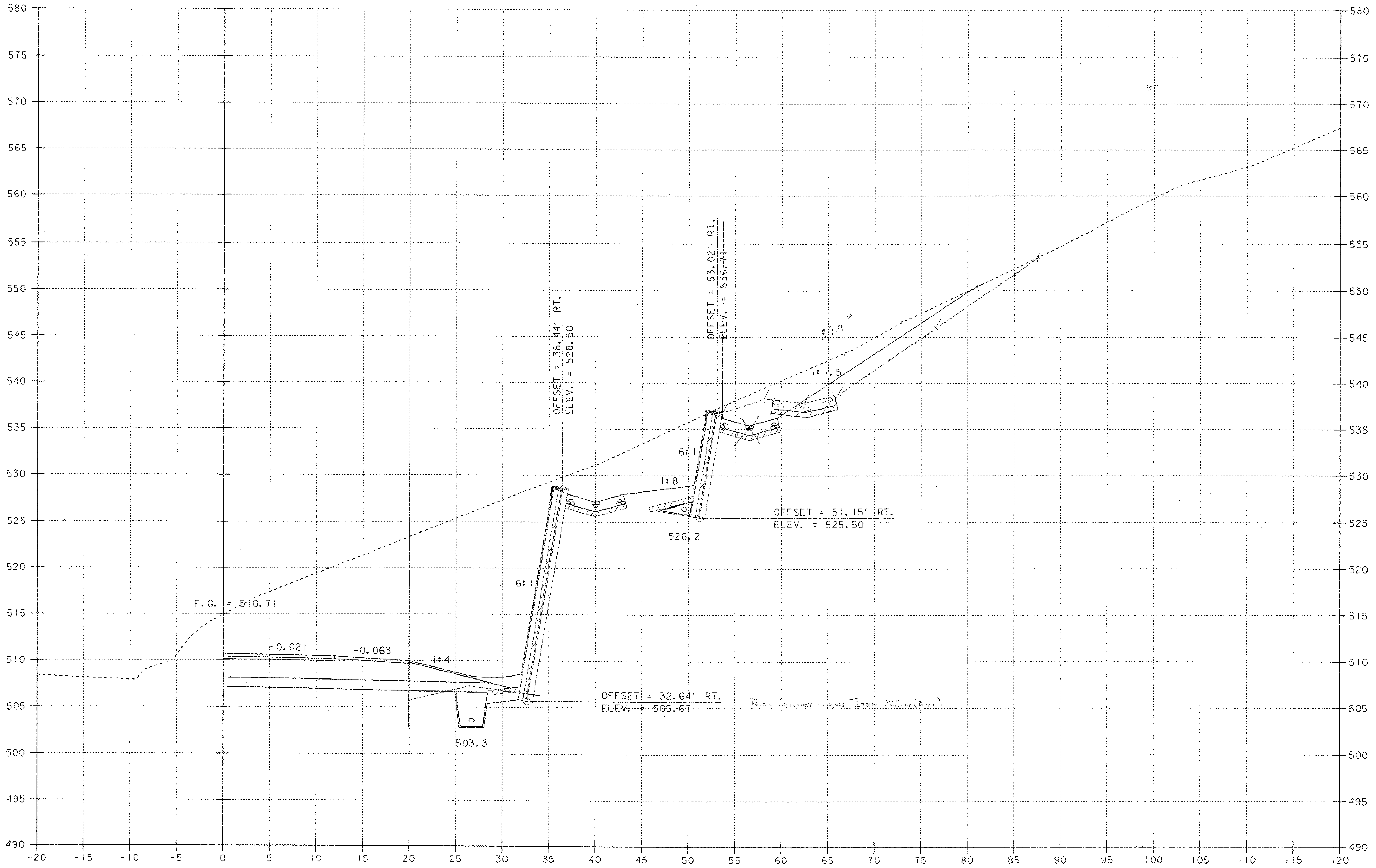
REV. 196+25

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t12.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR327

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145L OF 243



REV. 196+25

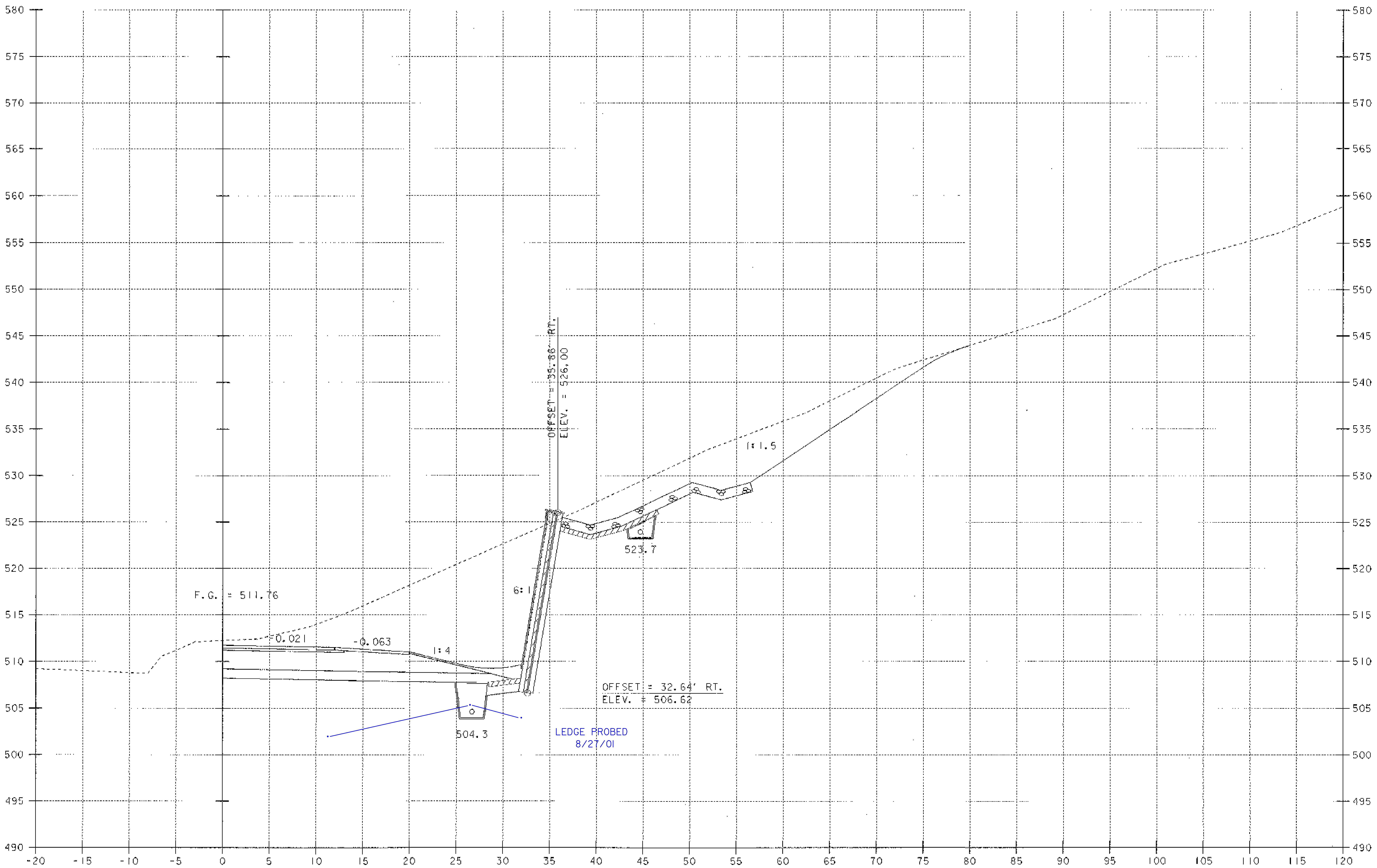
SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+12.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR327

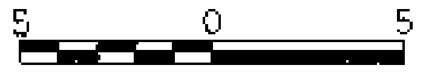
PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145L OF 243



REV. 196+50

REV. 196+40 RT.
END RETAINING WALL NO. 2

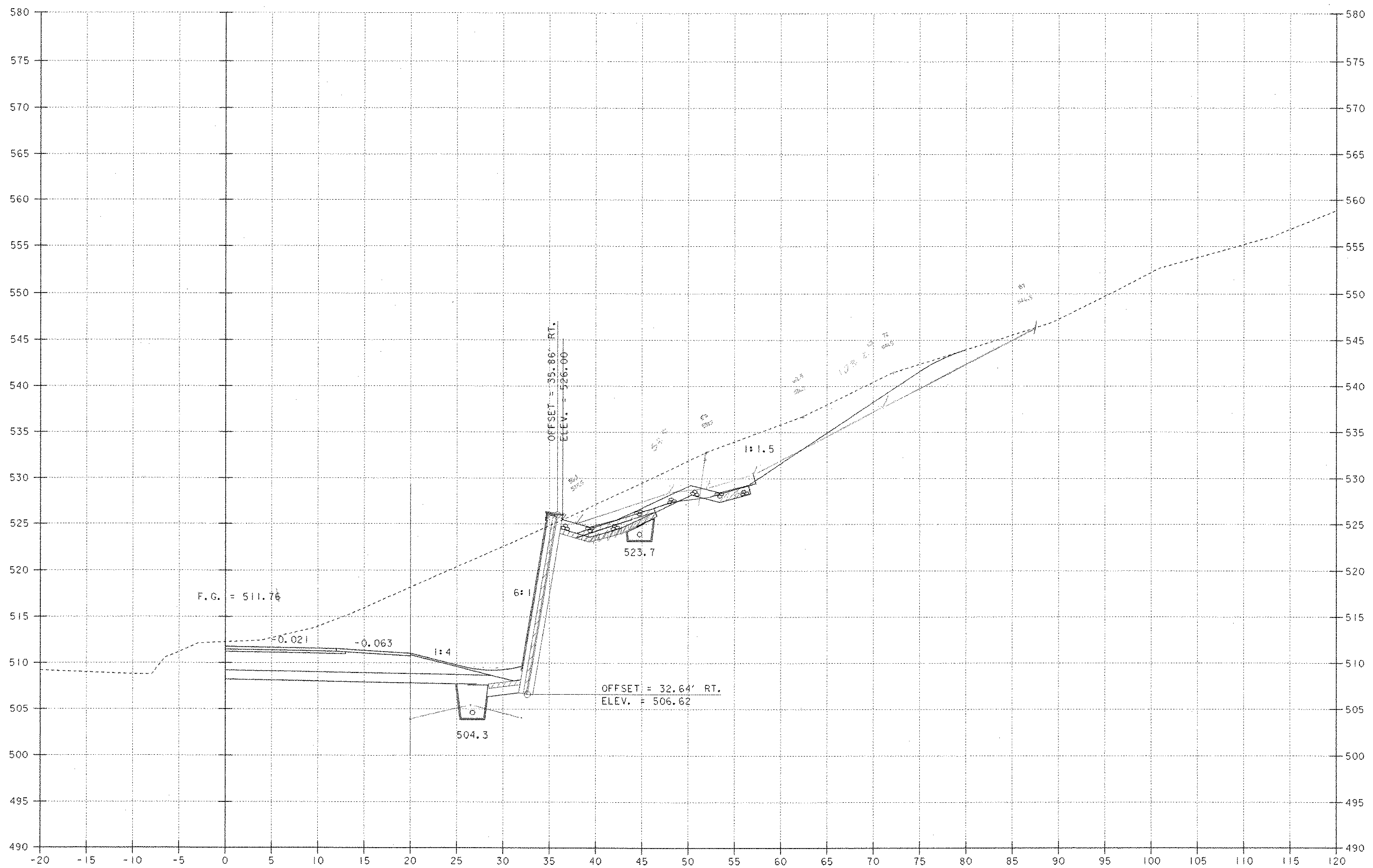
SCALE 1" = 5'-0



PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+13.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR328

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145M OF 243



REV. 196+50

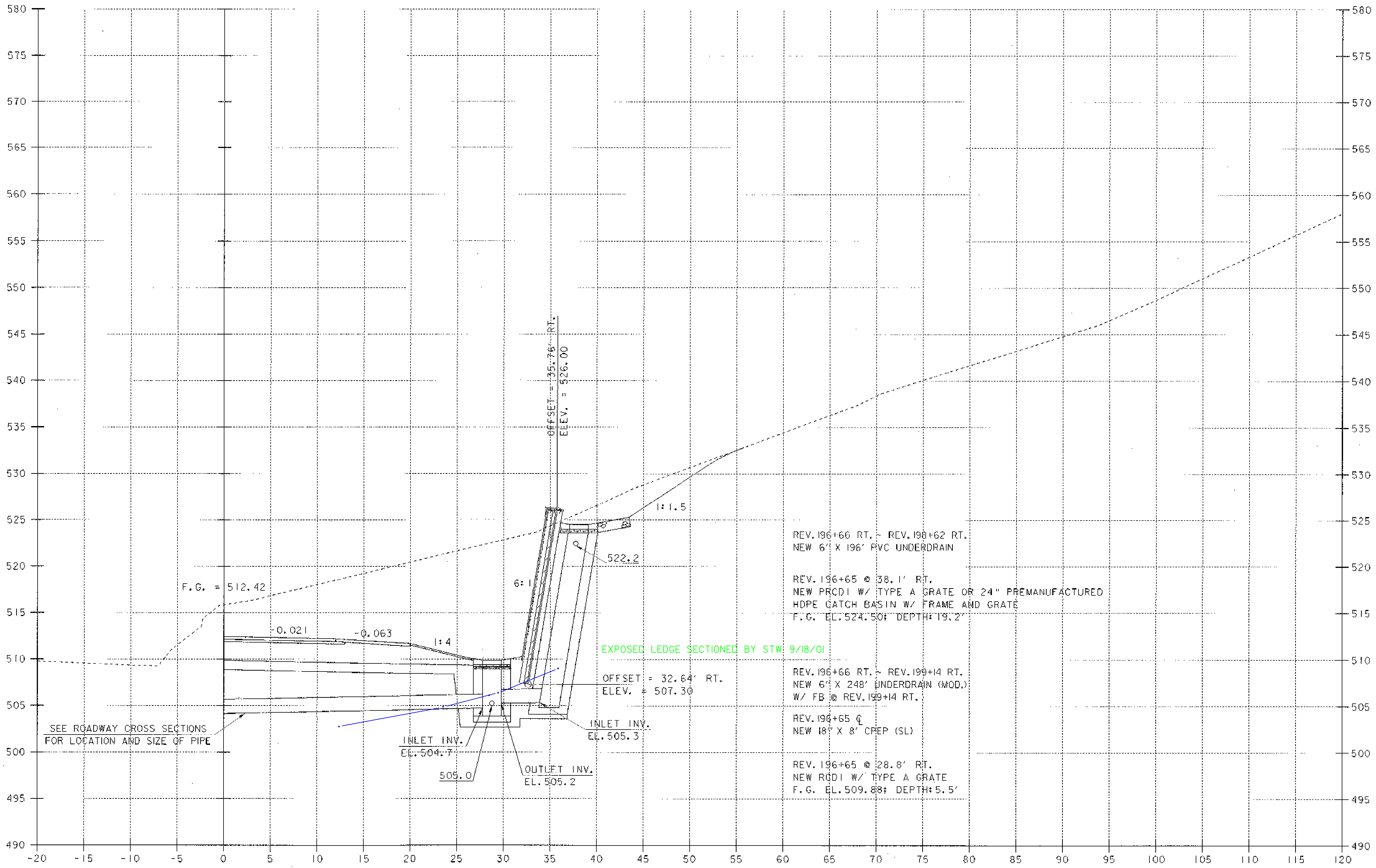
SCALE 1" = 5'-0
5 0 5

REV. 196+40 RT.
END RETAINING WALL NO. 2

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t13.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR328

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145M OF 243



REV. 196+66 RT. ~ REV. 198+62 RT.
NEW 6" X 196' PVC UNDERDRAIN

REV. 196+65 @ 38.1' RT.
NEW PRCDI W/ TYPE A GRATE OR 24" PREMANUFACTURED
HDPE CATCH BASIN W/ FRAME AND GRATE
F.G. EL. 524.50; DEPTH: 19.2'

REV. 196+66 RT. ~ REV. 199+14 RT.
NEW 6" X 248' UNDERDRAIN (MOD.)
W/ FB @ REV. 199+14 RT.

REV. 196+65 ℄
NEW 18" X 8' CPEP (SL)

REV. 196+65 @ 28.8' RT.
NEW RCDI W/ TYPE A GRATE
F.G. EL. 509.88; DEPTH: 5.5'

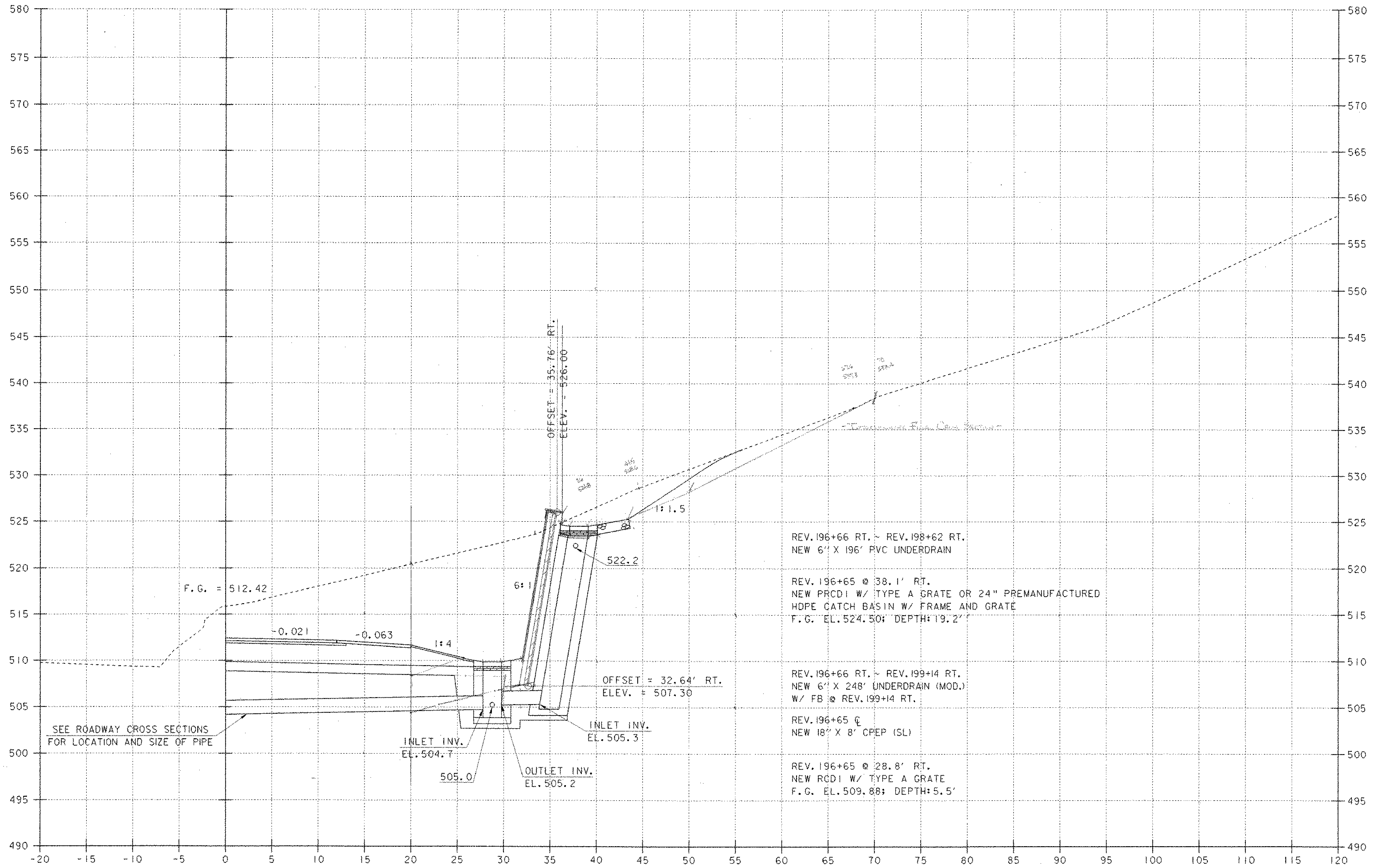
REV. 196+65

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t14.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR329

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145N OF 243



REV. 196+66 RT. ~ REV. 198+62 RT.
NEW 6" X 196' PVC UNDERDRAIN

REV. 196+65 @ 38.1' RT.
NEW PRCDI W/ TYPE A GRATE OR 24" PREMANUFACTURED
HDPE CATCH BASIN W/ FRAME AND GRATE
F.G. EL. 524.50; DEPTH: 19.2'

REV. 196+66 RT. ~ REV. 199+14 RT.
NEW 6" X 248' UNDERDRAIN (MOD.)
W/ FB @ REV. 199+14 RT.

REV. 196+65 ℄
NEW 18" X 8' CPEP (SL)

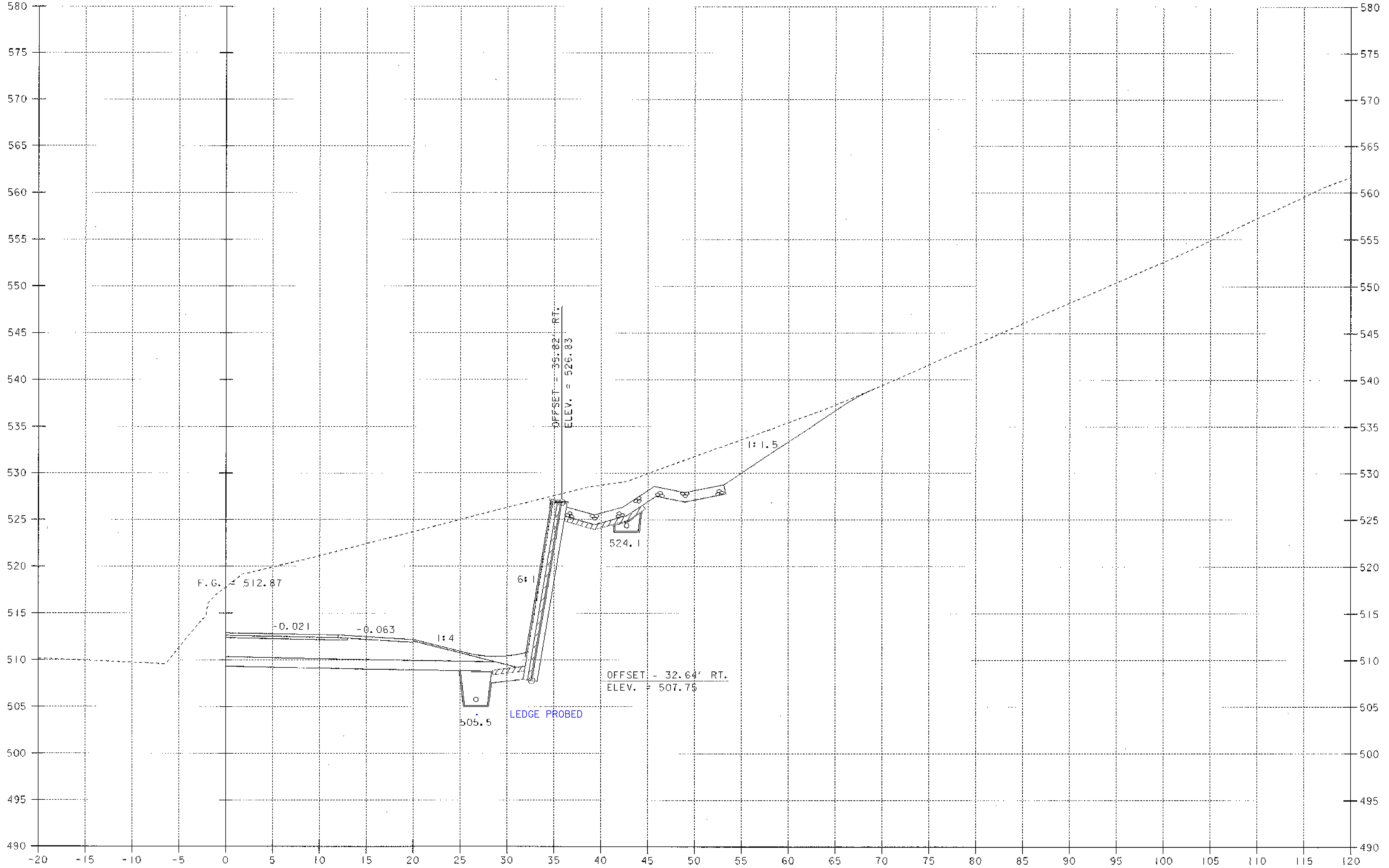
REV. 196+65 @ 28.8' RT.
NEW RCDI W/ TYPE A GRATE
F.G. EL. 509.88; DEPTH: 5.5'

REV. 196+65

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+14.i	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR329	SHEET 145N OF 243

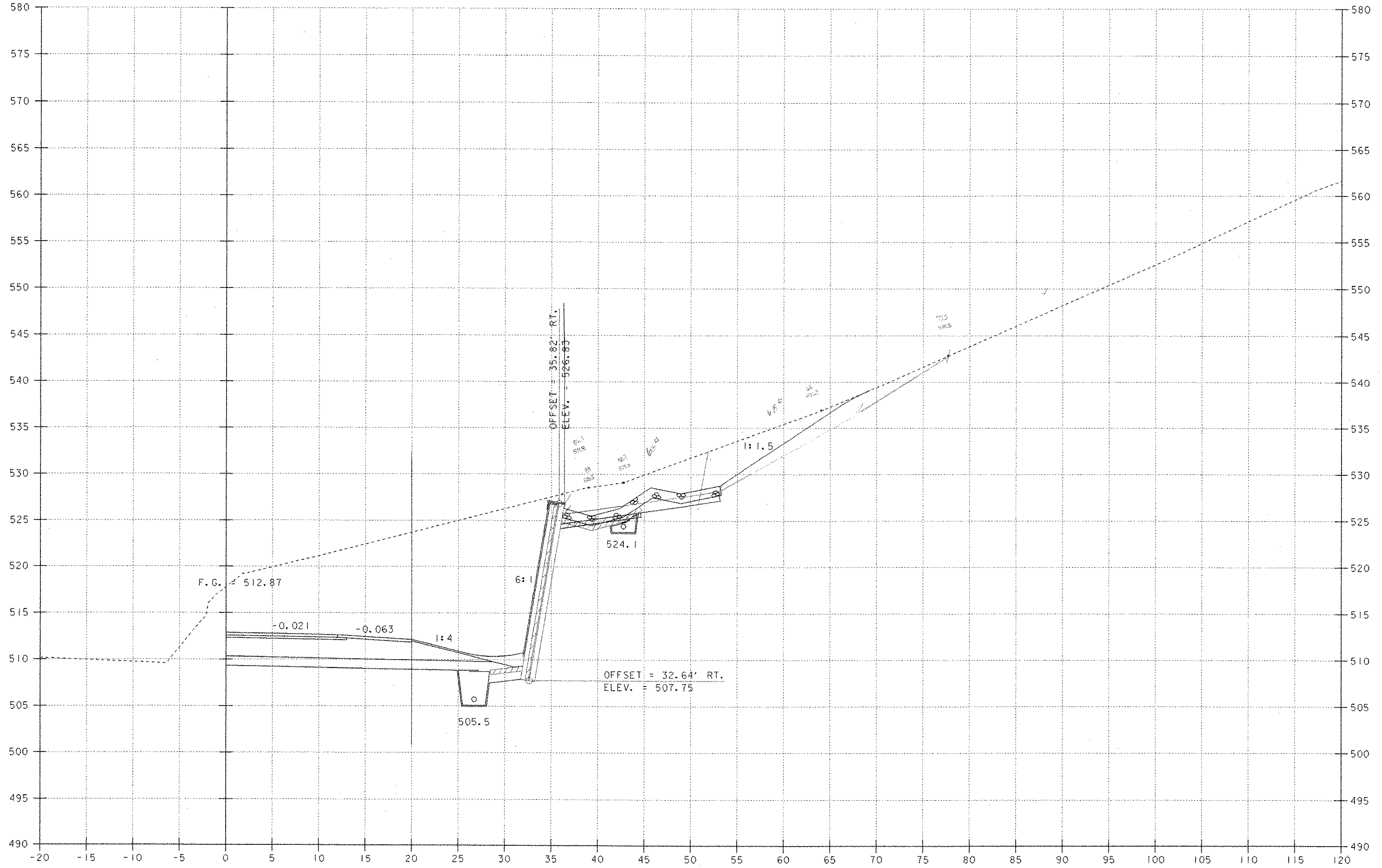


REV. 196+75

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+15.I	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR330	SHEET 1450 OF 243



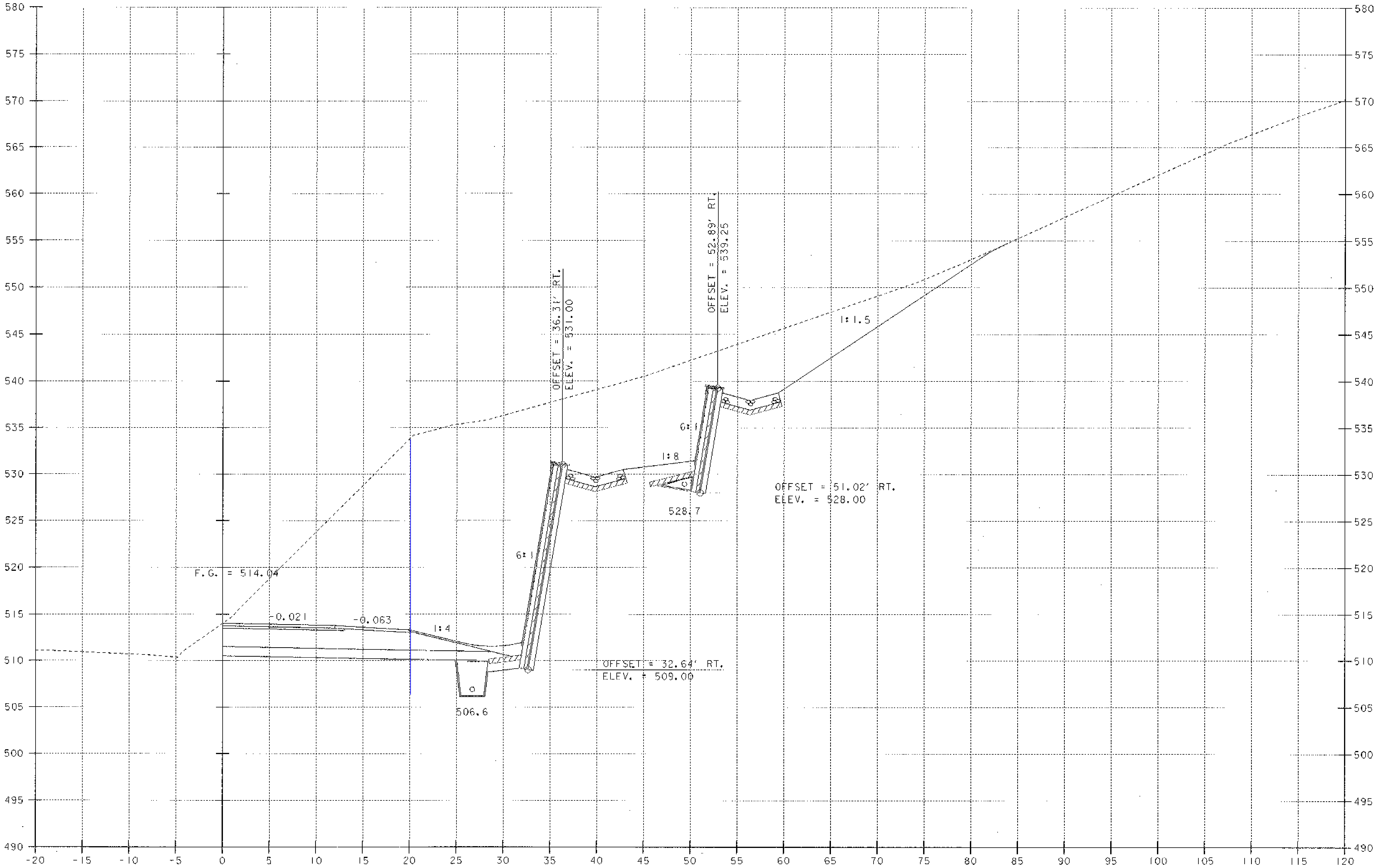
REV. 196+75

SCALE 1" = 5'-0

5 0 5

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+15.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR330
SHEET 1450 OF 243



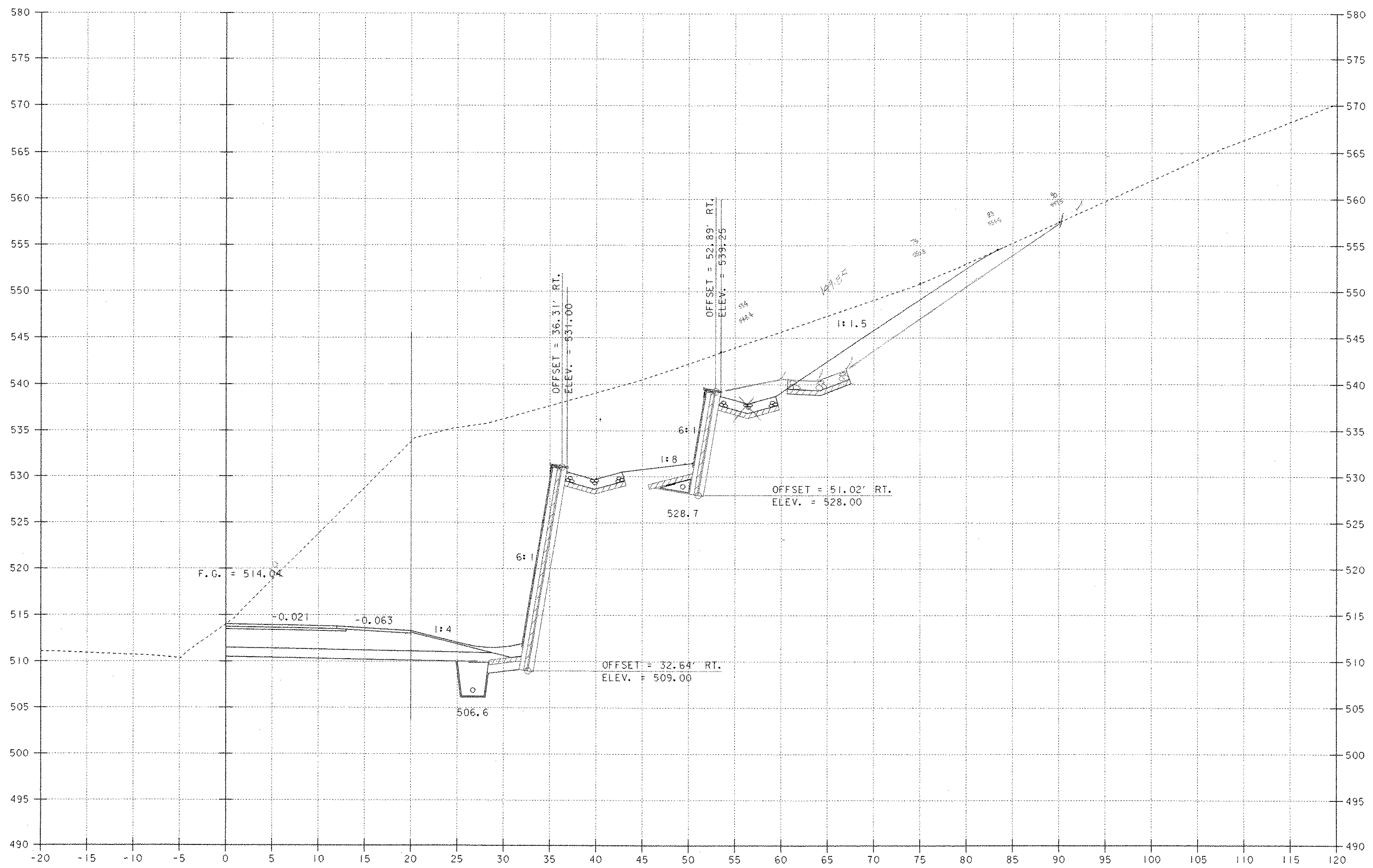
REV. 197+00

SCALE 1" = 5'-0

REV. 196+90 RT.
BEGIN RETAINING WALL NO. 1

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132t16.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR331
SHEET 145P OF 243



REV. 197+00

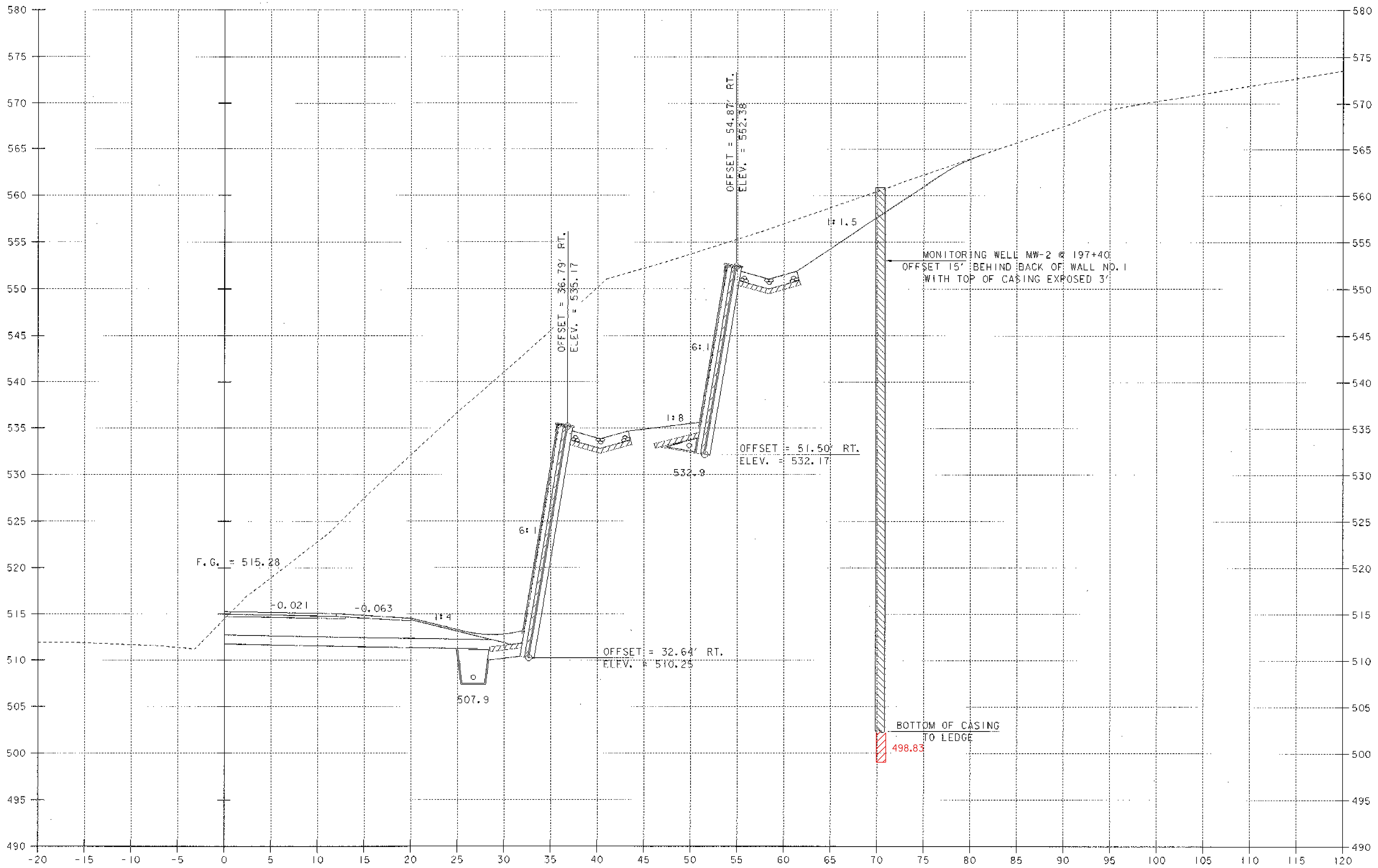
SCALE 1" = 5'-0
5 0 5

REV. 196+90 RT.
BEGIN RETAINING WALL NO. 1

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+16.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR331

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145P OF 243



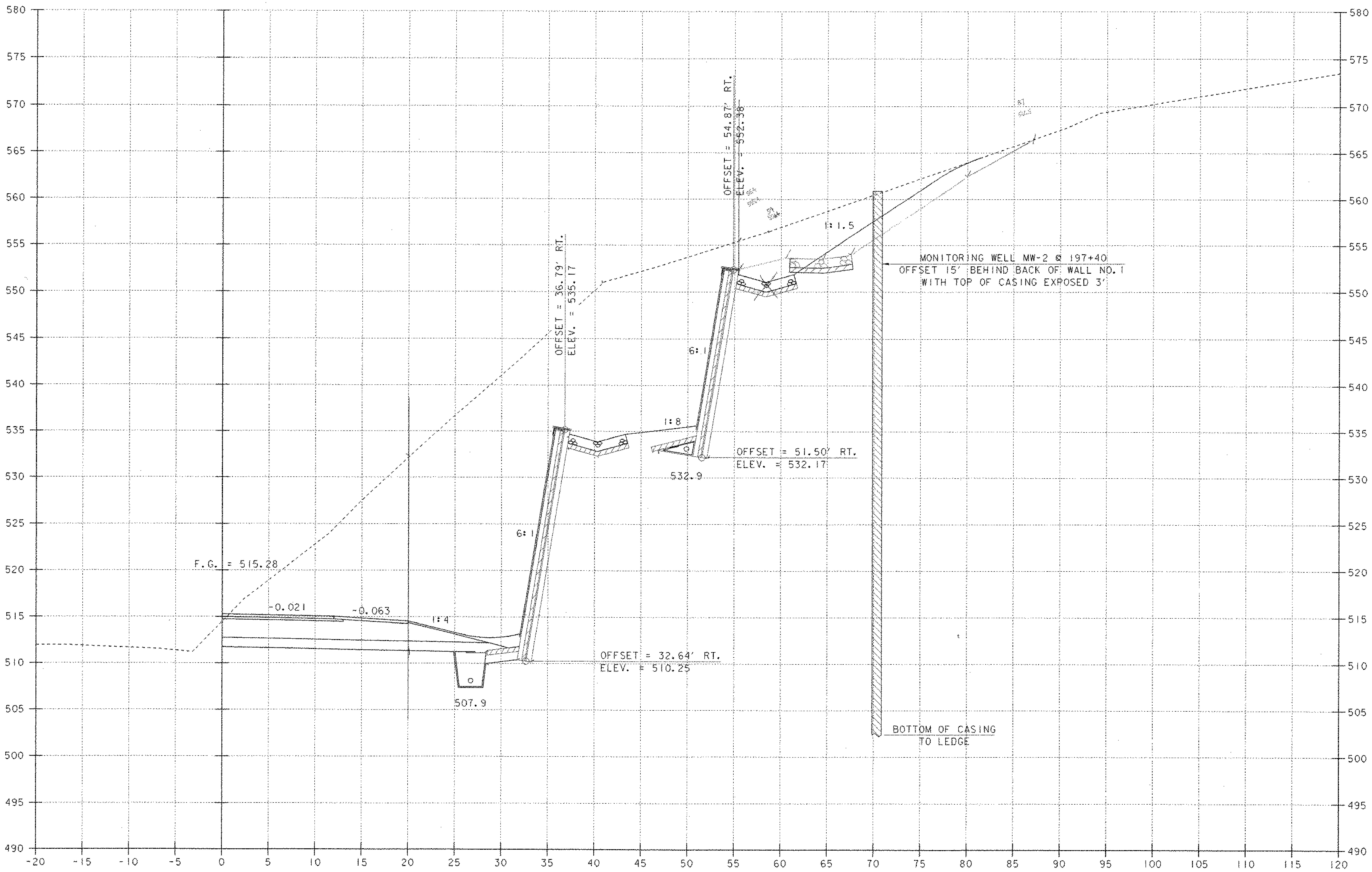
REV. 197+25

SCALE 1" = 5'-0

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+17.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR332

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145Q OF 243

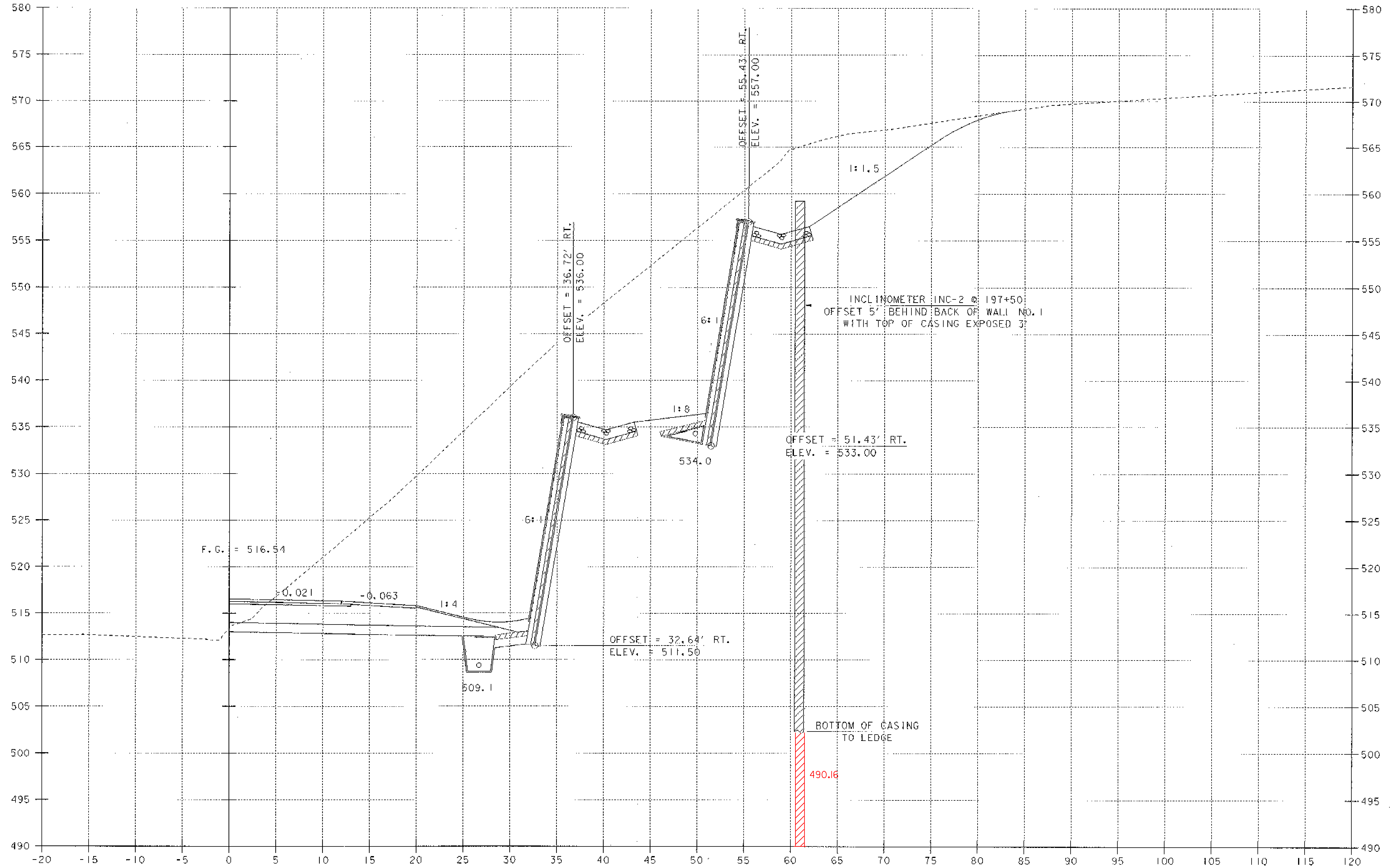


REV. 197+25

SCALE 1" = 5'-0

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t17.i
PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB
DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN
CHECKED BY: C. ALLEN
BRIDGE SHEET BR332
SHEET 1450 OF 243



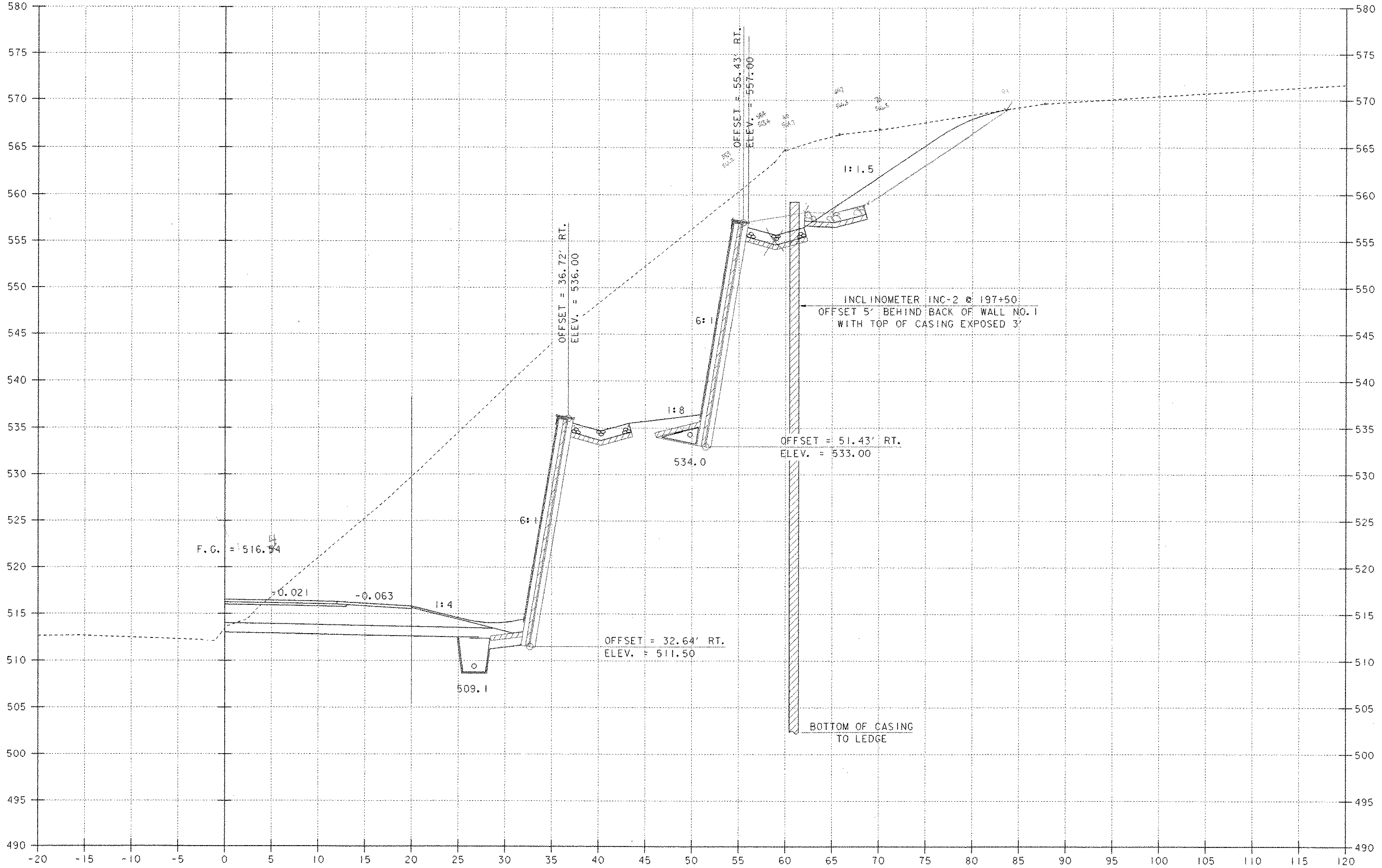
REV. 197+50

SCALE 1" = 5'-0

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32t18.J
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR333

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145R OF 243



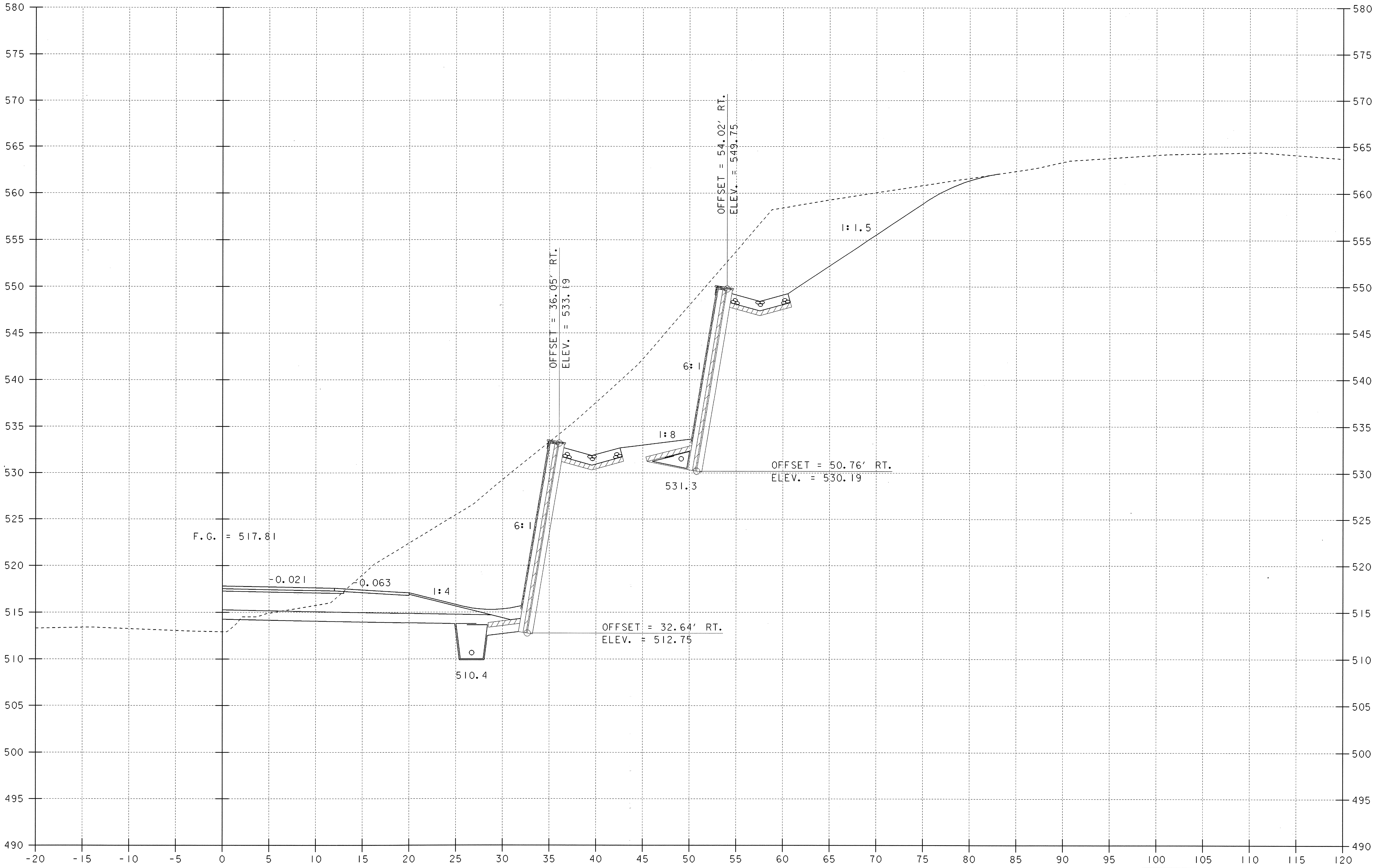
REV. 197+50

SCALE 1" = 5'-0

5 0 5

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+18.1	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR333	SHEET 145R OF 243



REV. 197+75

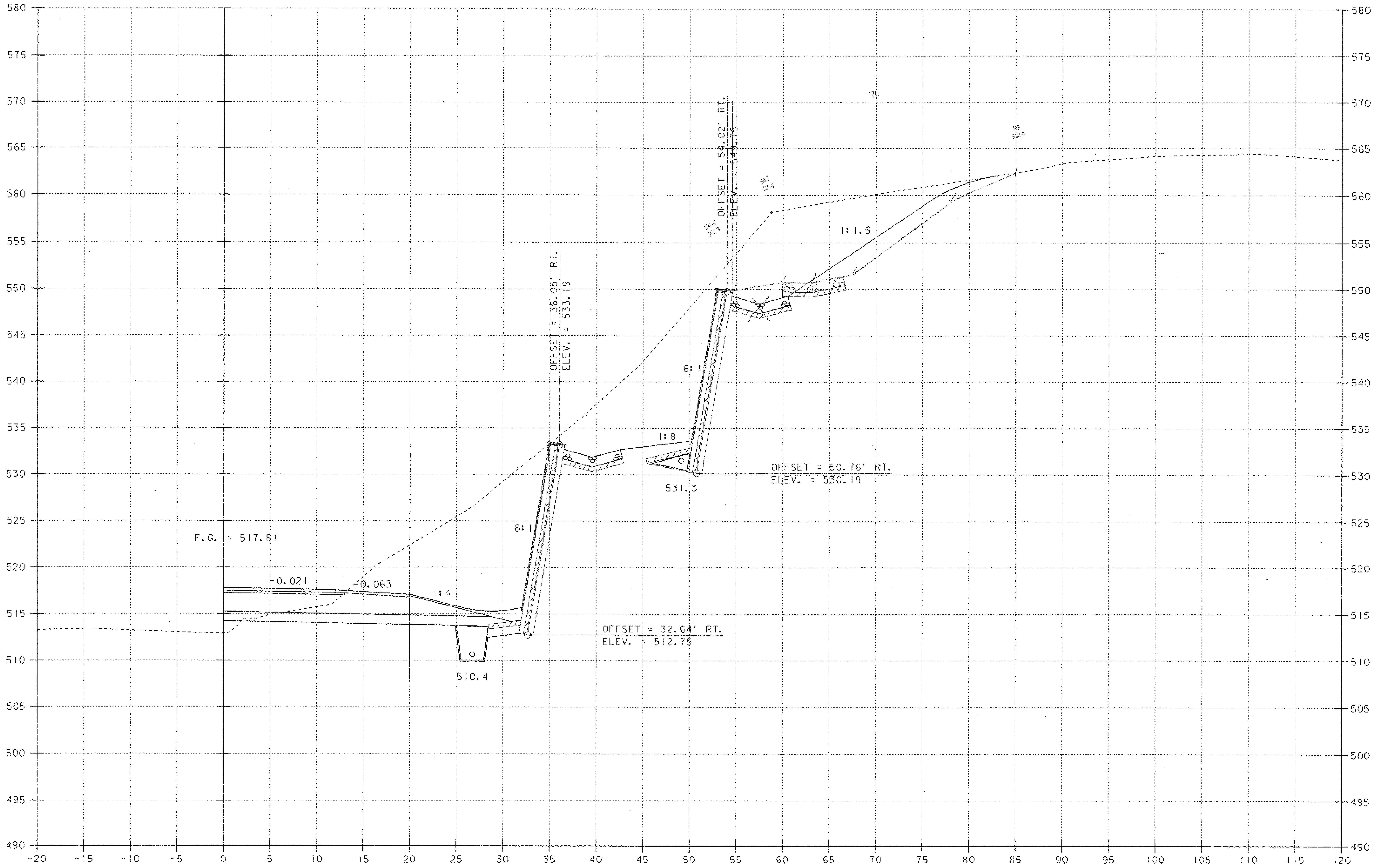
SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+19.
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR334

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145S OF 243



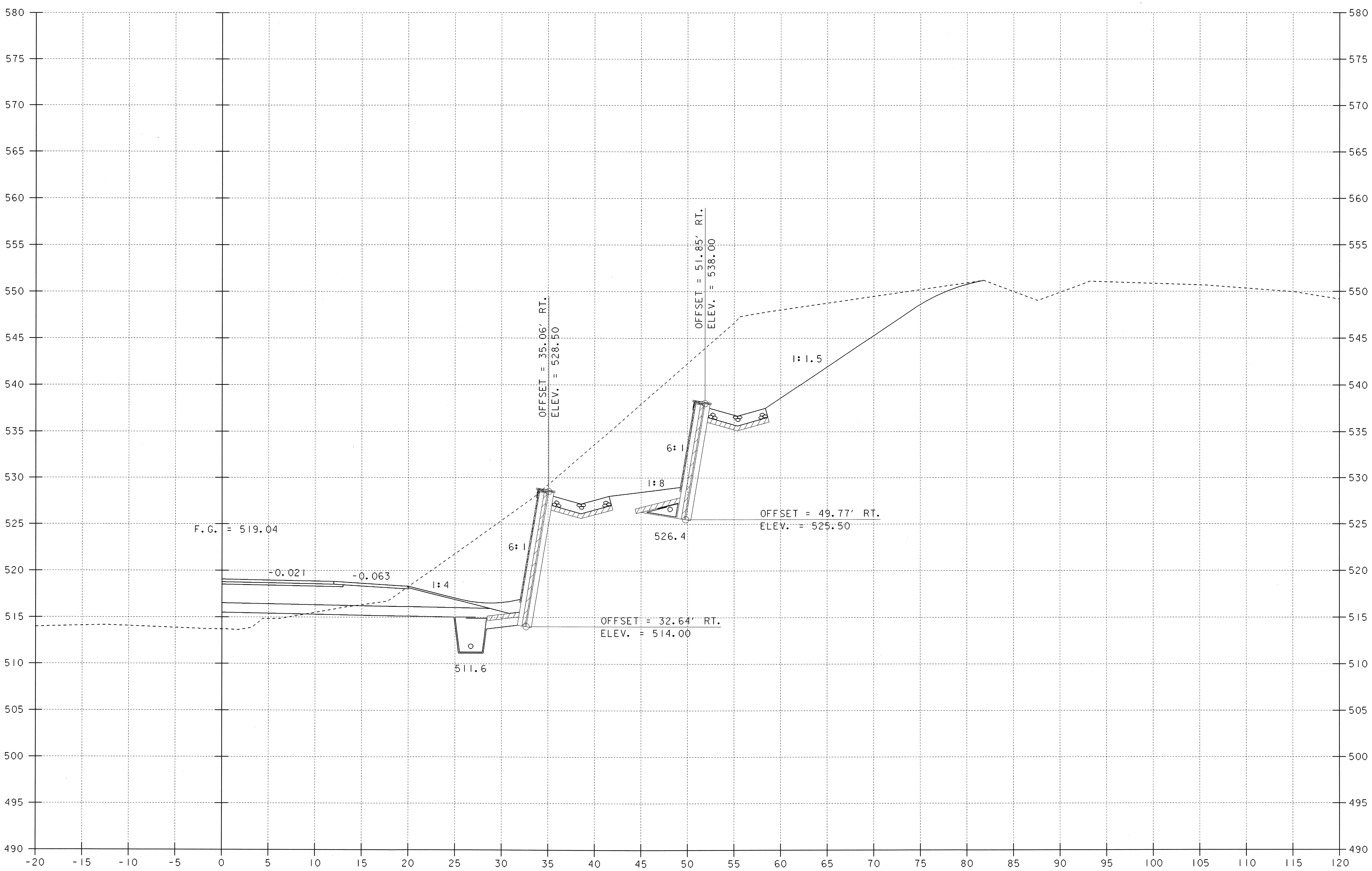
REV. 197+75

SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+19.i	PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB	DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN	CHECKED BY: C. ALLEN
BRIDGE SHEET BR334	SHEET 145S OF 243



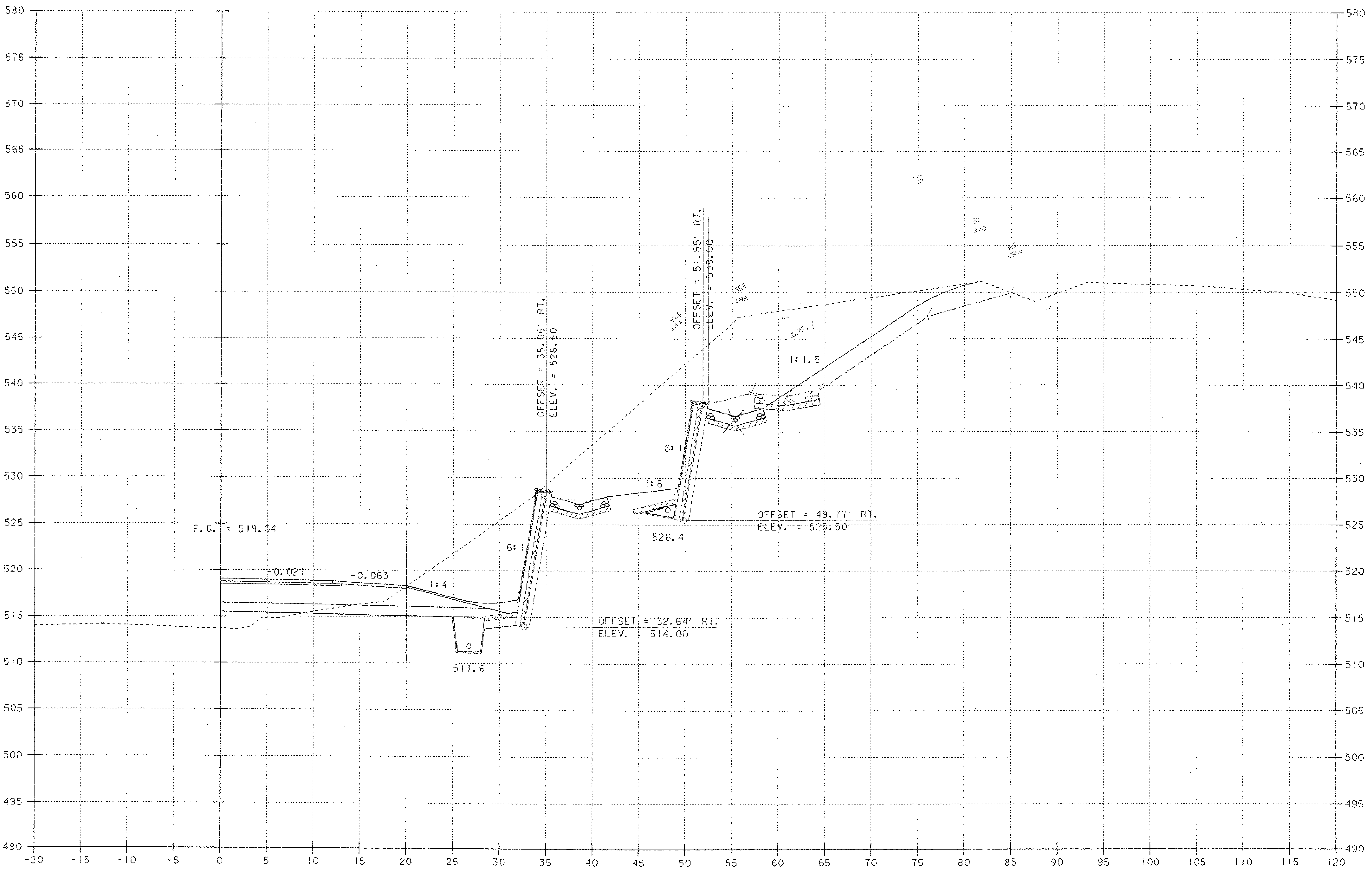
REV. 198+00

SCALE 1" = 5'-0
5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+20.1
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR335

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145T OF 243



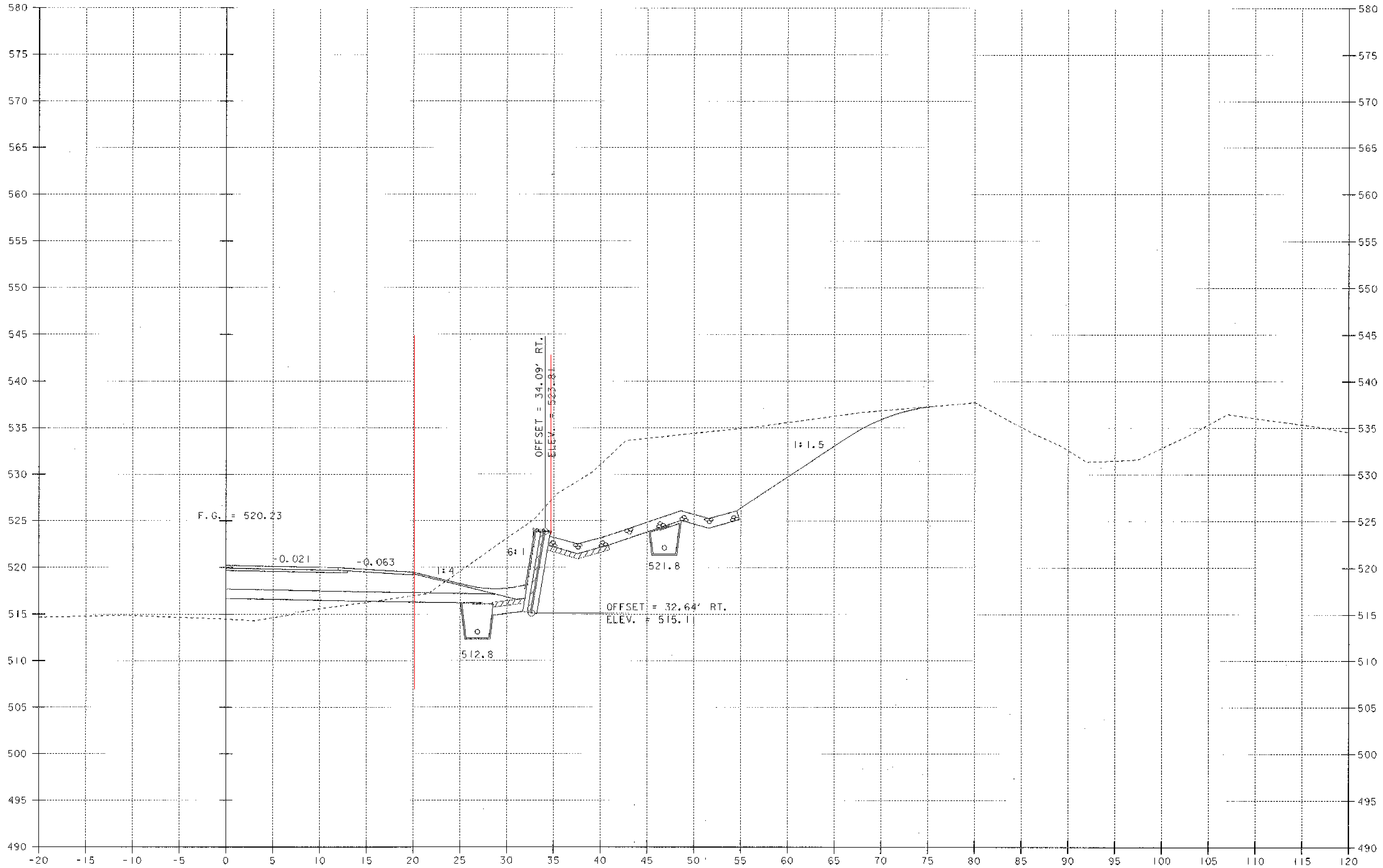
REV. 198+00

SCALE 1" = 5'-0

5 0 5

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+20.l PLOT DATE: 12-MAY-2000
PROJECT LEADER: R. R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR335 SHEET 145T OF 243



REV. 198+25

SCALE 1" = 5'-0

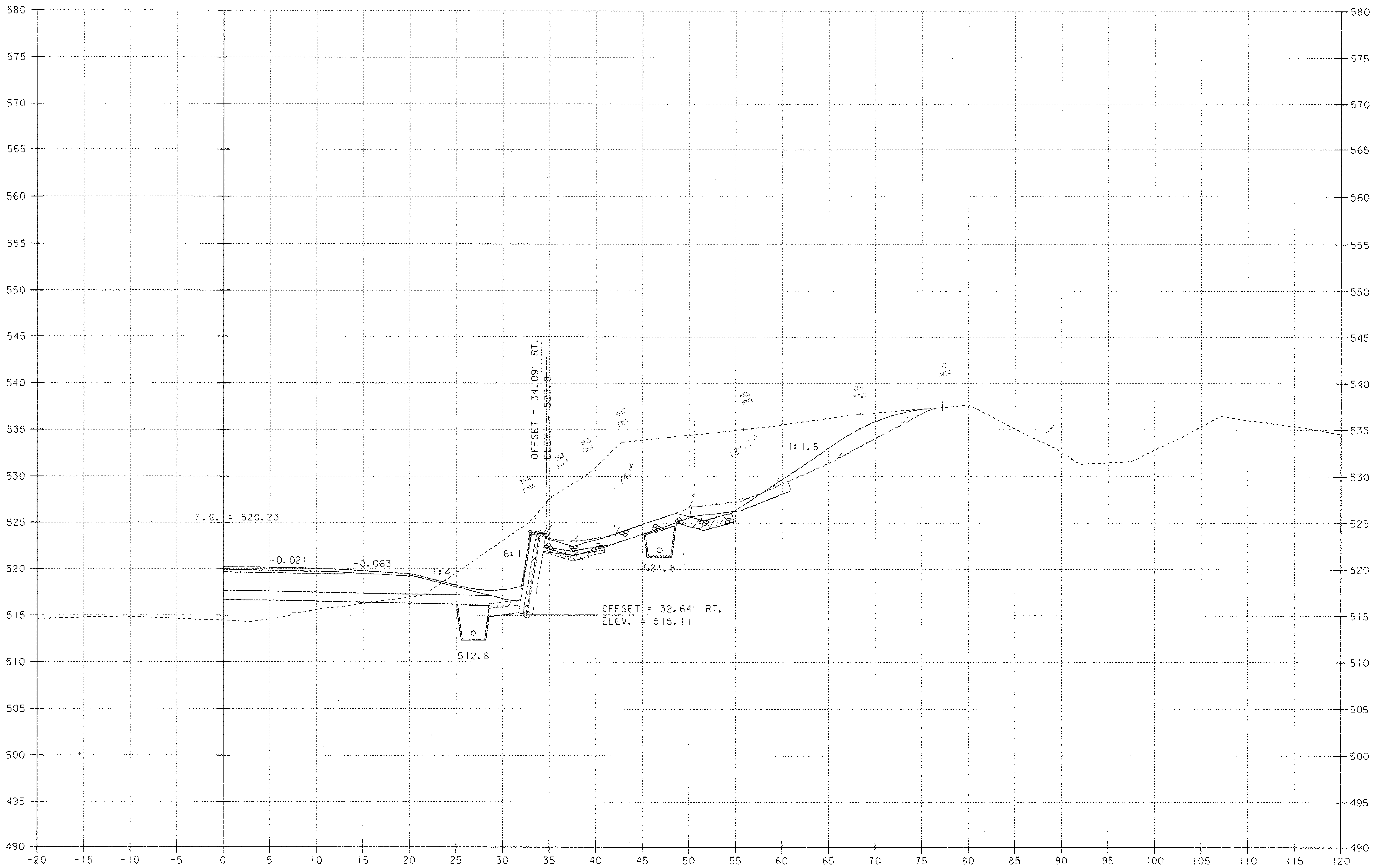
5 0 5

REV. 198+20 RT.
END RETAINING WALL NO. 1

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32f2L1
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR336

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145U OF 243



REV. 198+25

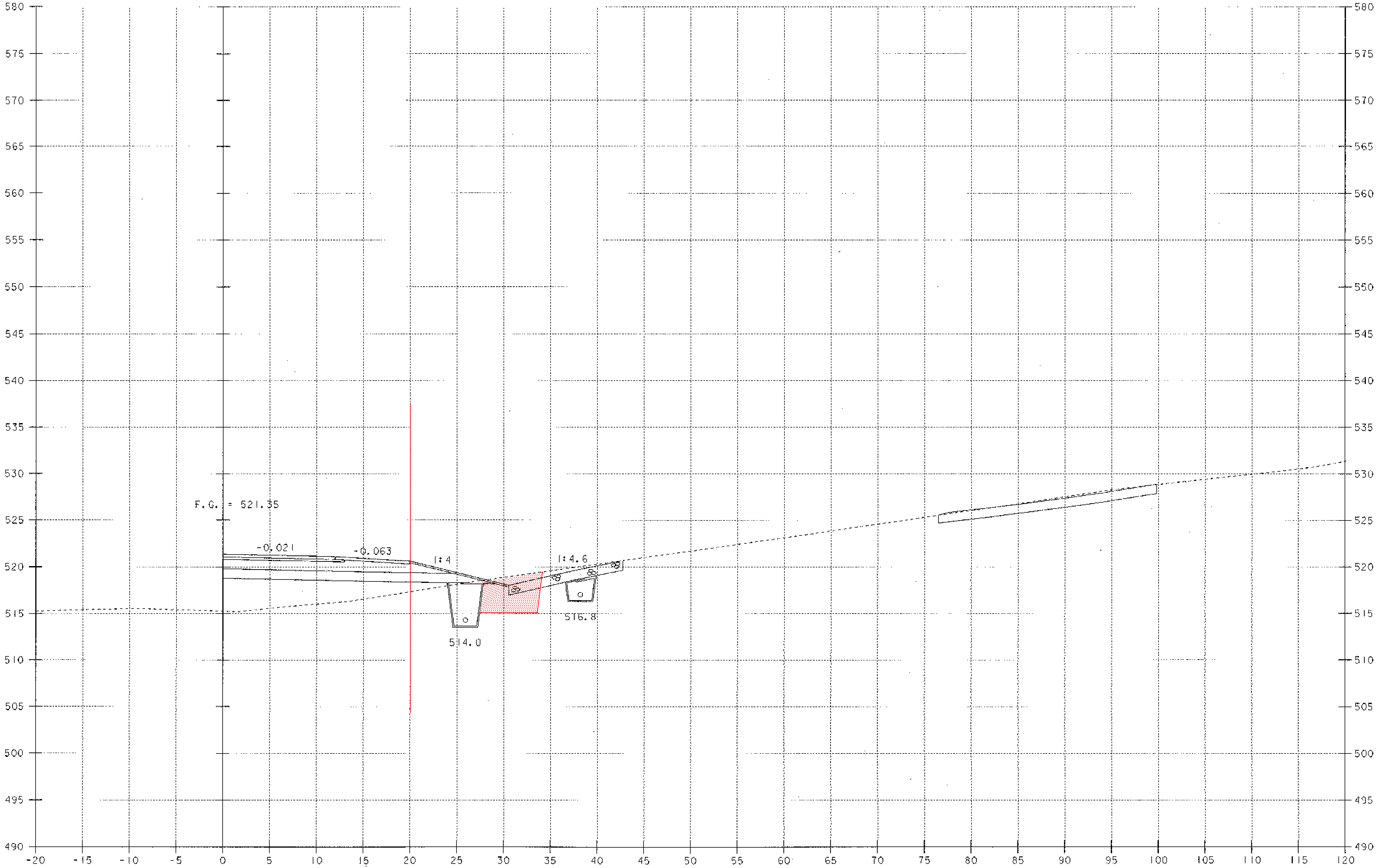
SCALE 1" = 5'-0
5 0 5

REV. 198+20 RT.
END RETAINING WALL NO. 1

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

FILE NAME: \78el32\Structures\sel32+21.i
PROJECT LEADER: R.R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR336

PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145U OF 243



REV. 198+50

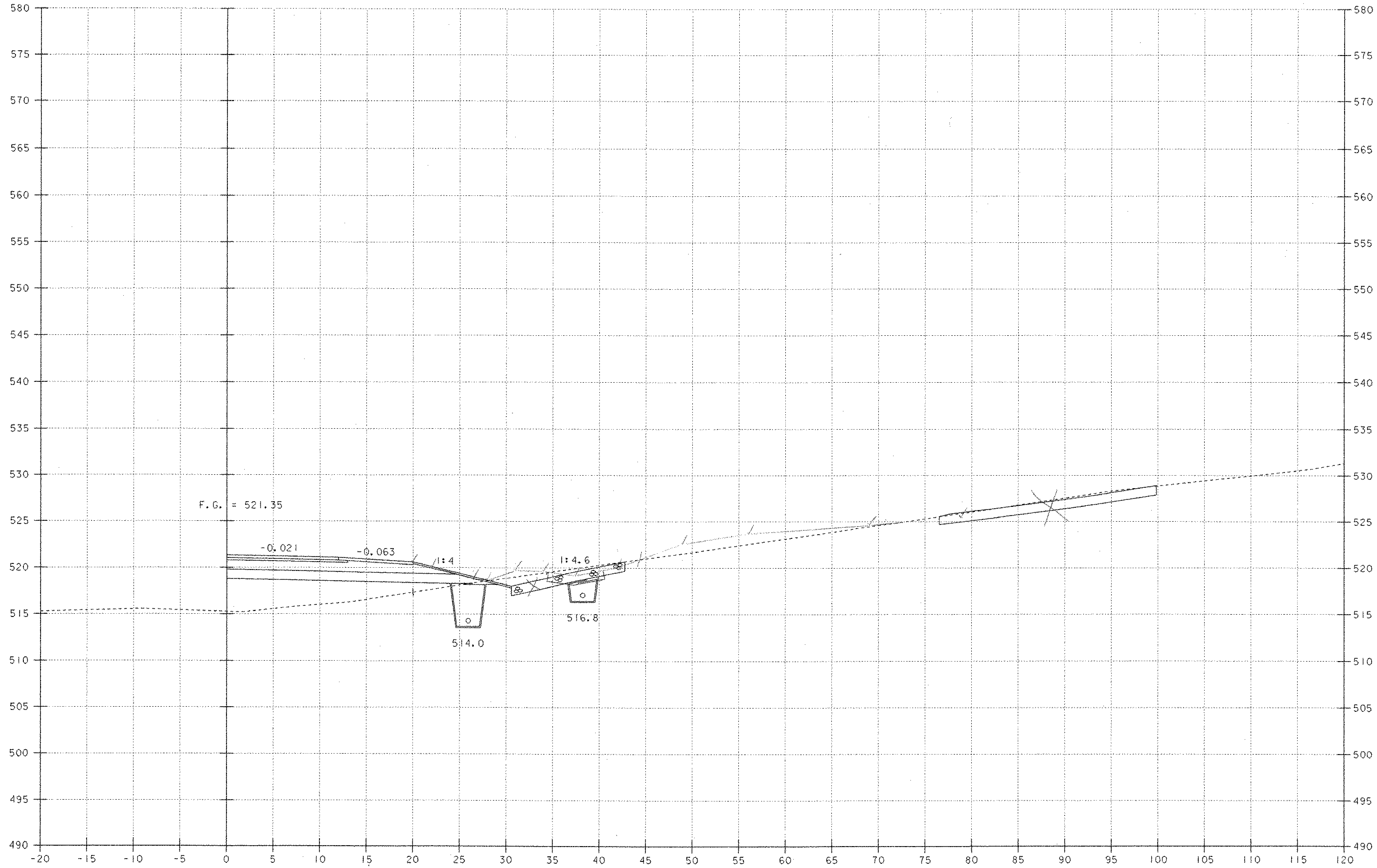
REV. 198+64 RT.
END STRUCTURE EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE I

SCALE 1" = 5'-0
5 0 5

REV. 198+40 RT.
END RETAINING WALL NO. 3

PROJECT NAME:	MORETOWN
PROJECT NUMBER:	STP EGC RSEGC 0167 (9)

FILE NAME: \78e132\Structures\se132+22.i
PROJECT LEADER: R. R. WHITCOMB
DESIGNED BY: C. ALLEN
BRIDGE SHEET BR337
PLOT DATE: 12-MAY-2000
DRAWN BY: G. ROY
CHECKED BY: C. ALLEN
SHEET 145V OF 243



REV. 198+64 RT.
END STRUCTURE EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE I

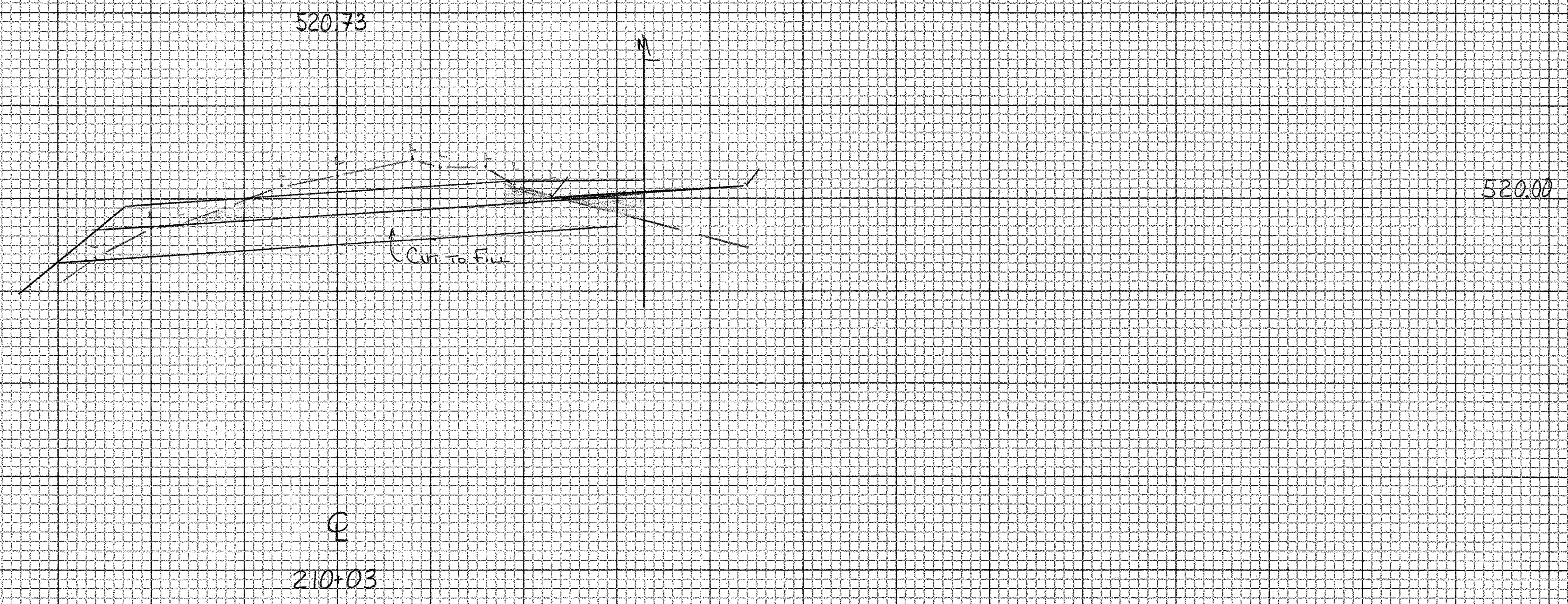
REV. 198+50

SCALE 1" = 5'-0
5 0 5

REV. 198+40 RT.
END RETAINING WALL NO. 3

PROJECT NAME: MORETOWN
PROJECT NUMBER: STP EGC RSEGC 0167 (9)

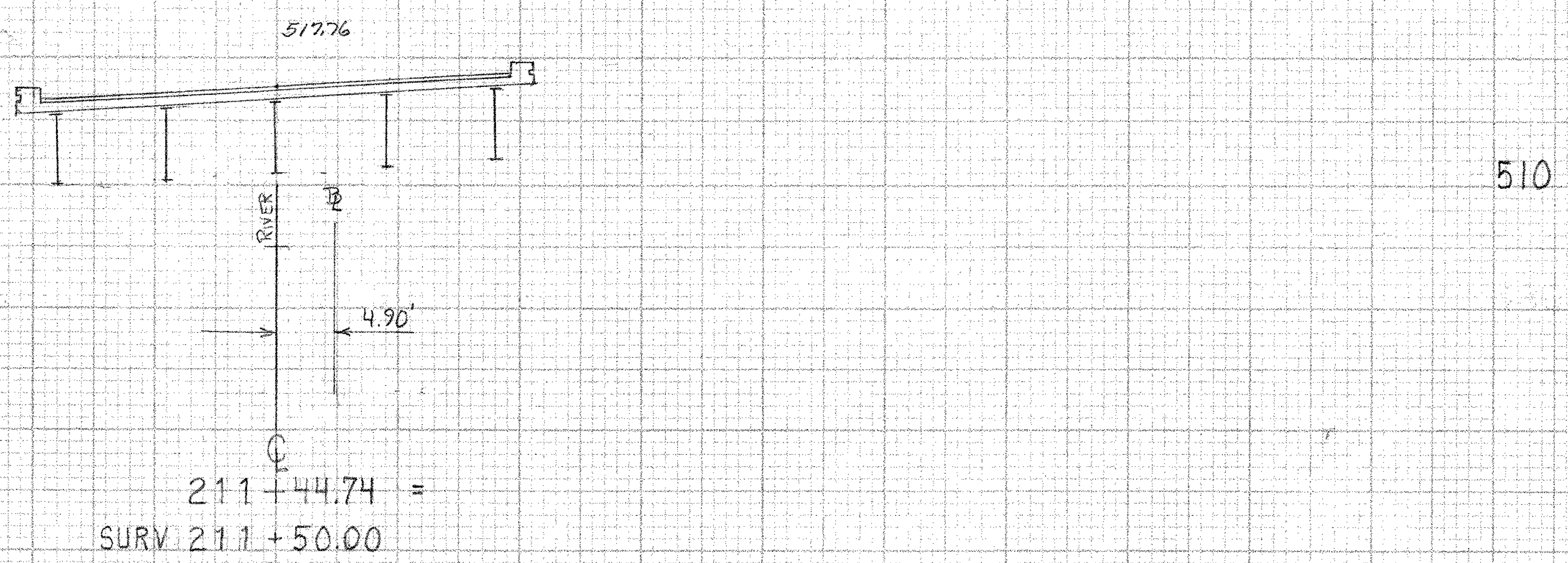
FILE NAME: \78el32\Structures\sel32+22.i PLOT DATE: 12-MAY-2000
PROJECT LEADER: R.R. WHITCOMB DRAWN BY: G. ROY
DESIGNED BY: C. ALLEN CHECKED BY: C. ALLEN
BRIDGE SHEET BR337 SHEET 145V OF 243

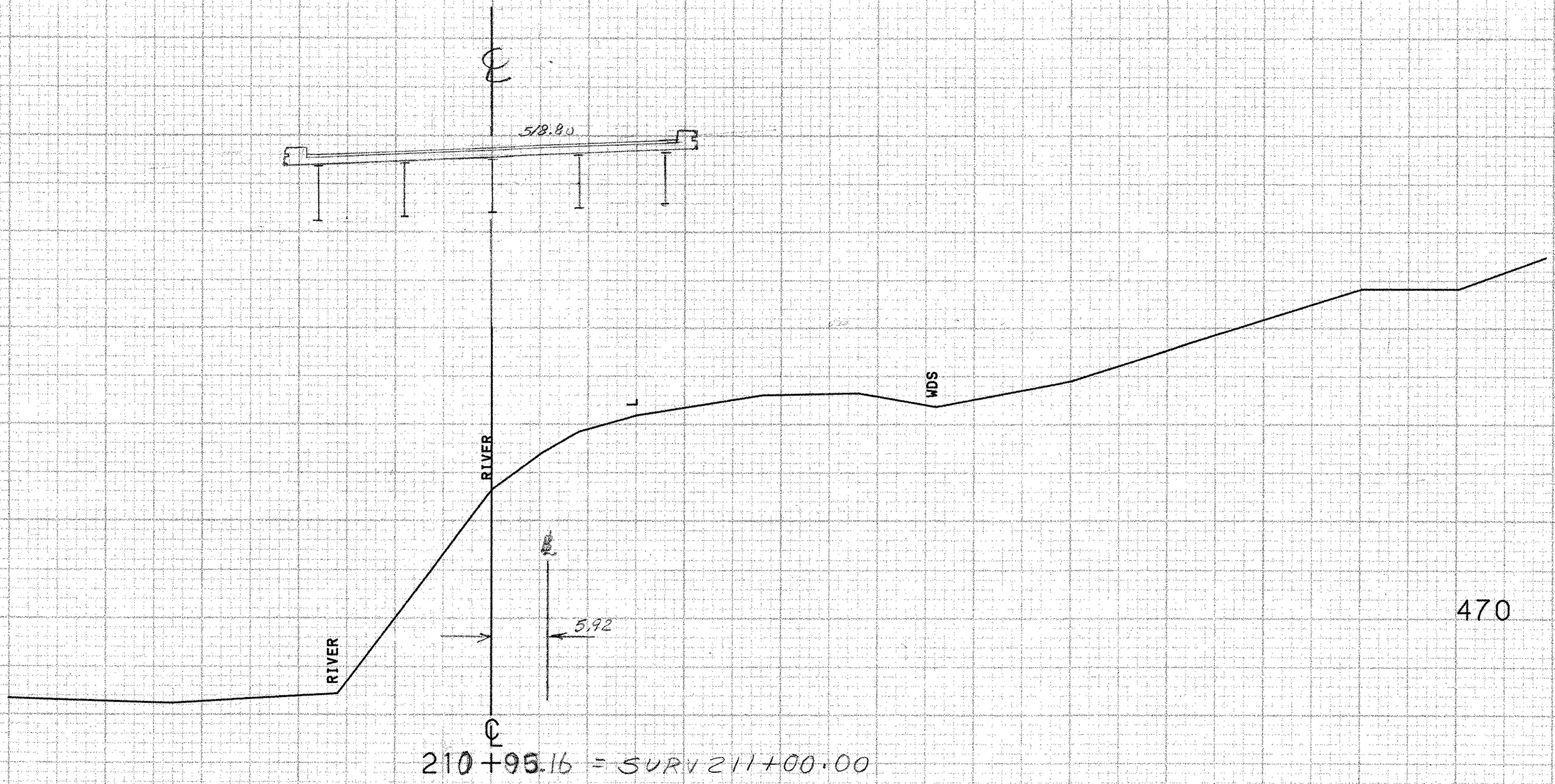


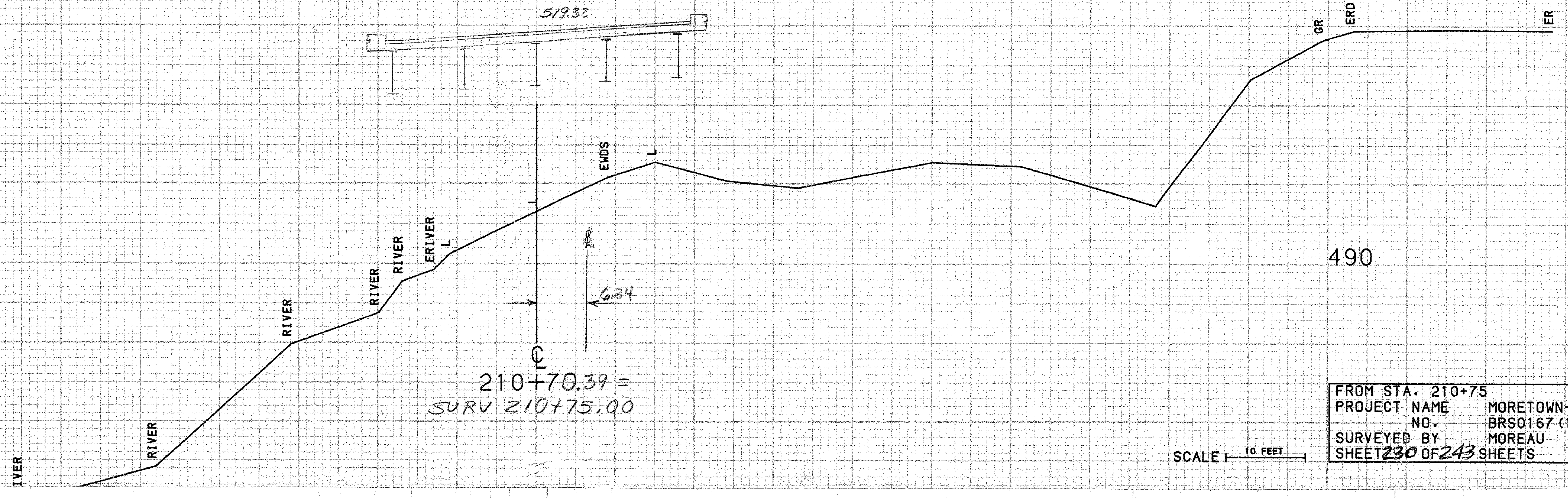
CROSS SECTION SHEET

PROJECT NAME: Moretown - Middlesex RS0167 (9)
PROJECT NUMBER:
FILE NAME: Route 100B Ledge Section
PLOT DATE: 05-JUN-2000 09
PROJECT LEADER:
DRAWN BY: STW 1/3/01
DESIGNED BY:
CHECKED BY:
const: g:/common/cadd/e-xsection.dgn
SHEET ____ OF ____

229A

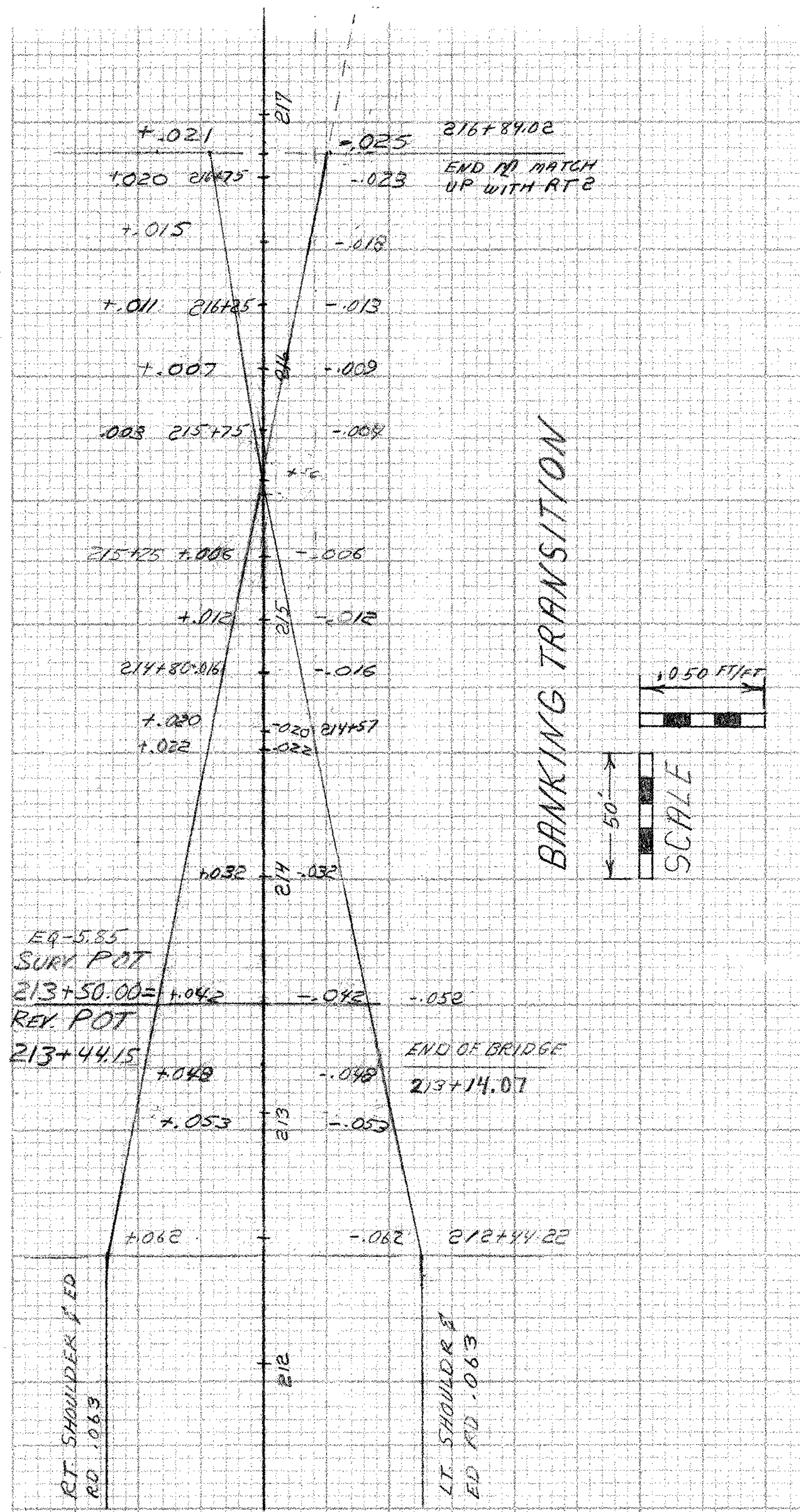


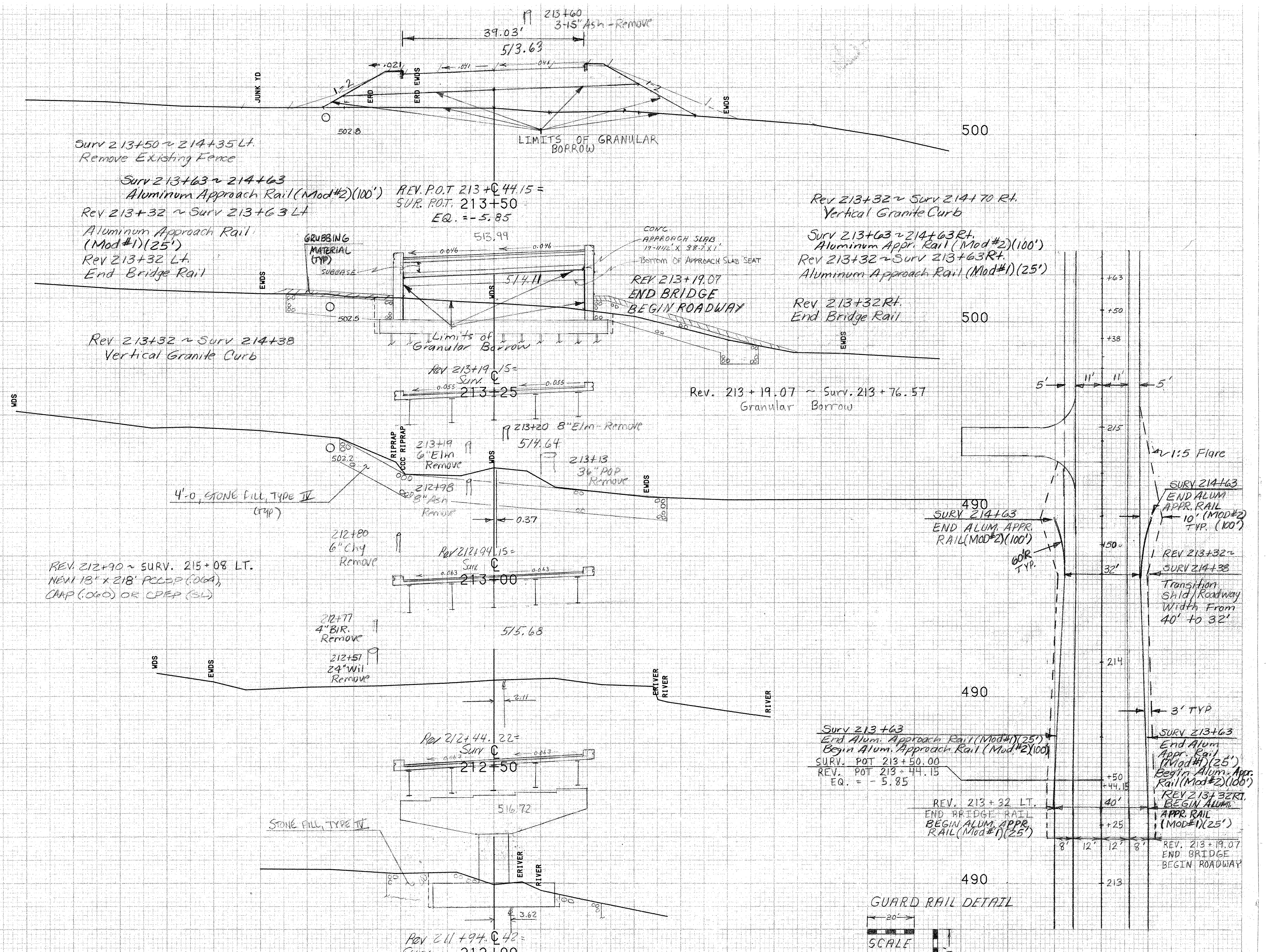




SCALE 10 FEET

FROM STA. 210+75 TO STA. 211+90
PROJECT NAME MORETOWN-MIDDLESEX
NO. BRS0167(11) PLOTTED 05/04/87
SURVEYED BY MOREAU 01/86 0039
SHEET 230 OF 243 SHEETS





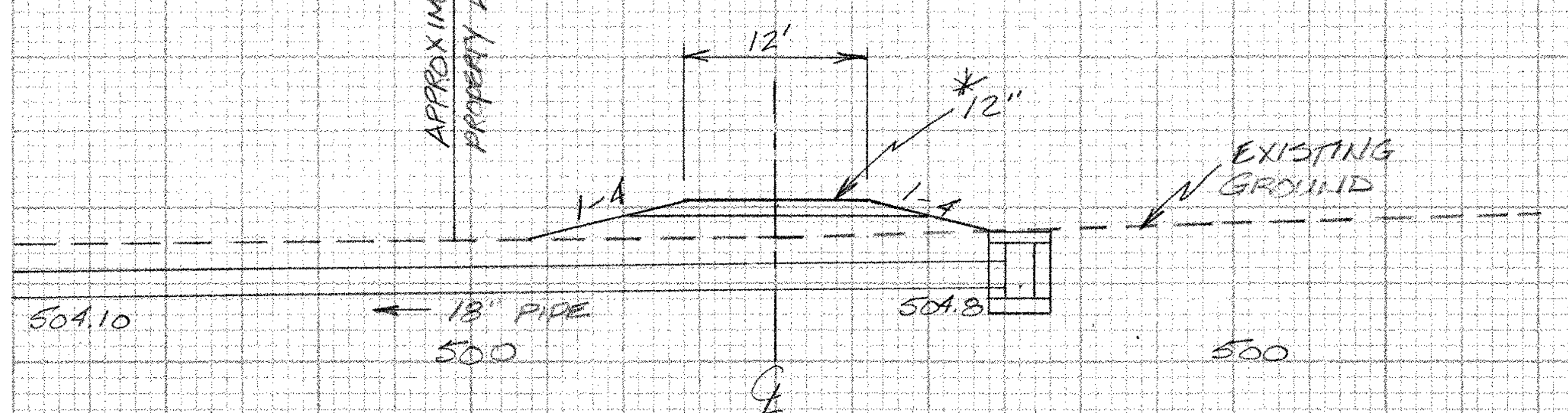
20'

SCALE

20'

SCALE 10 FEET

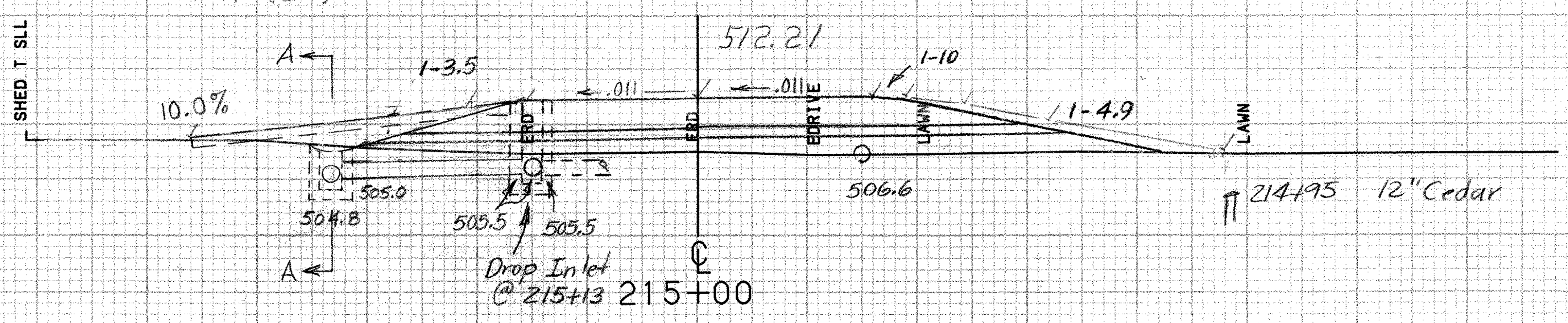
FROM STA. 212+00 TO STA. 213+50
PROJECT NAME MORETOWN-MIDDLESEX
NO. BRS0167(11) PLOTTED 05/04/87
SURVEYED BY MOREAU 01/86 0039
SHEET 231 OF 243 SHEETS



STA 214+94 LT.
SECTION 'A-A'

*3" SUBBASE OF CRUSHED
GRAVEL (FINE GRADED) OVER
9" DENSE GRADED CRUSHED STONE

215+09 ~ 215+13 LT
NEW 18" × 16' PCCSP (.064),
CAAP (.060), RCP CL III OR
CPEP (SL)

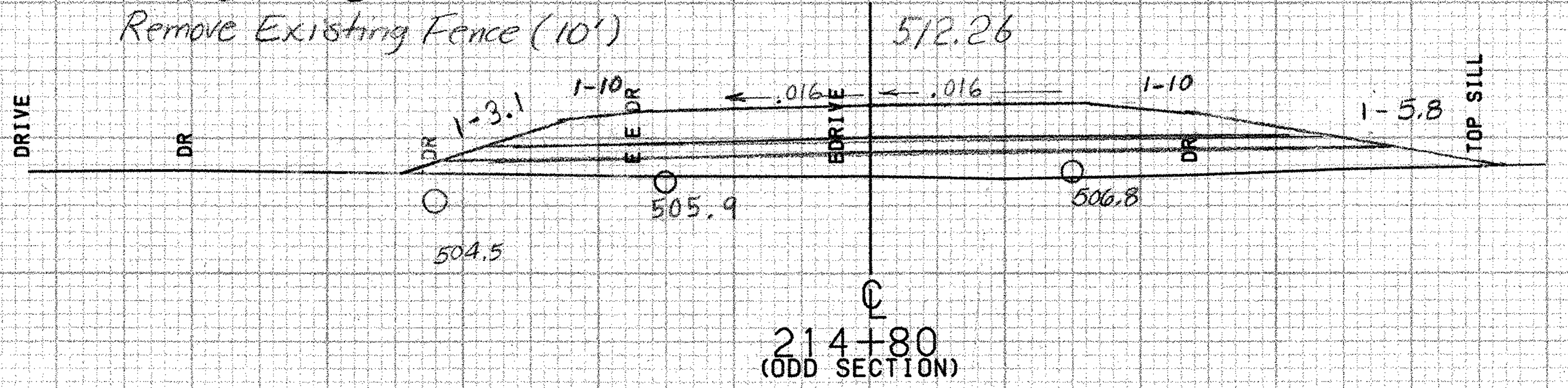


500

STA. 214 + 94 LT.
CONSTRUCT DRIVE (GRAVEL)

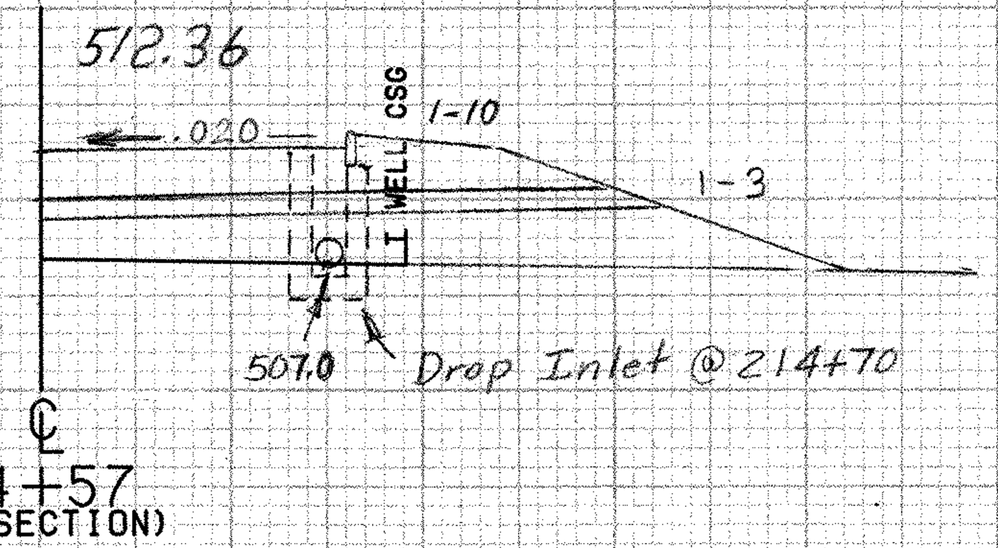
SURV 214+70 ~ 215+10 Rt.
Leave 40' Break in Vertical
Granite Curb for Future Access
(Do Not Construct Drive)

Sta. 214+73 Lt.
Remove Existing Fence (10')

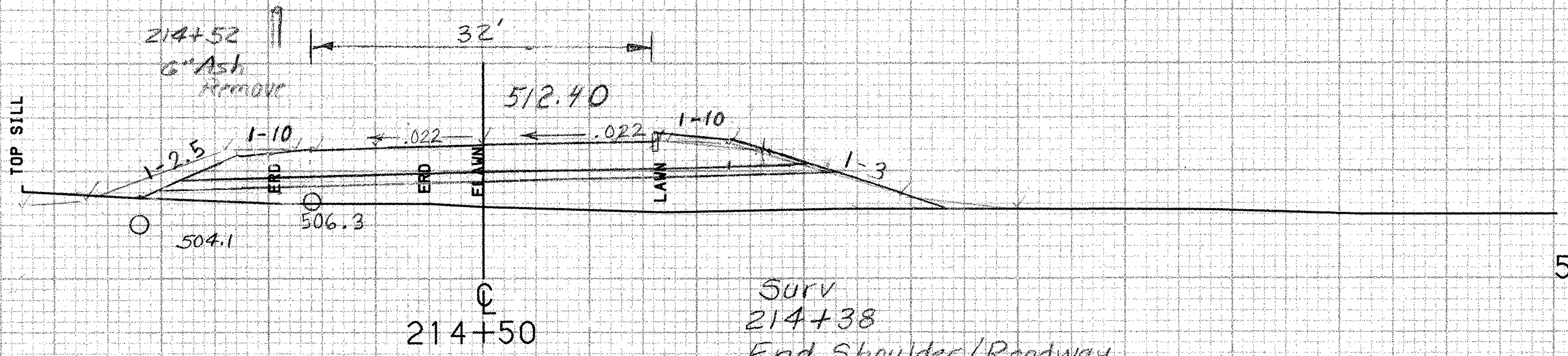


500

214+70 ~ 215+10 Rt.
New 18" × 38' PCCSP (.064),
CAAP (.060), RCP CL III
or CPEP (SL)



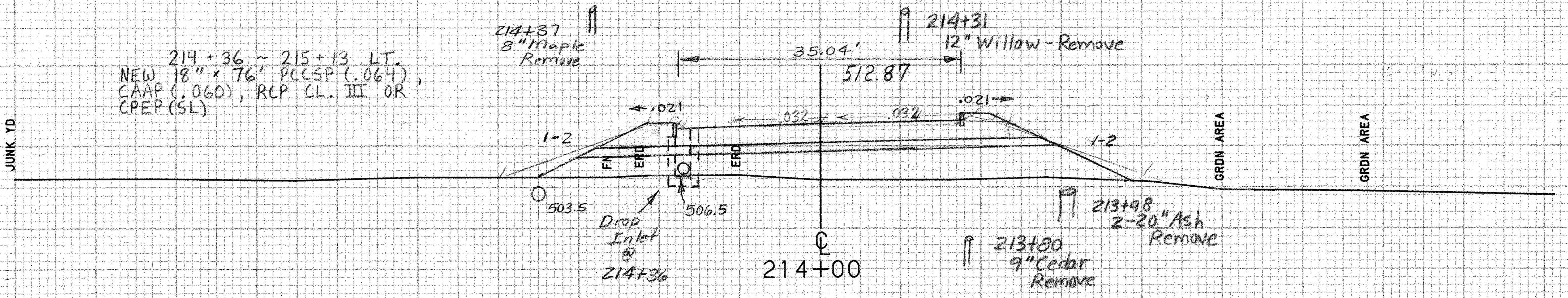
500



500

Surv
214+38
End Shoulder/Roadway
Width Transition

214 + 36 ~ 215 + 13 LT.
NEW 18" × 76' PCCSP (.064),
CAAP (.060), RCP CL. III OR
CPEP (SL)



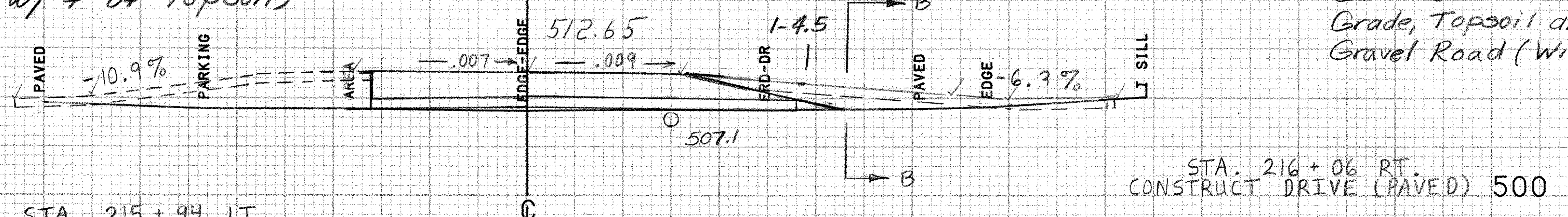
500

SCALE 10 FEET

FROM STA. 214+00 TO STA. 215+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. BRS0167(11) PLOTTED 05/04/87
SURVEYED BY MOREAU 01/86 0039
SHEET 232 OF 243 SHEETS

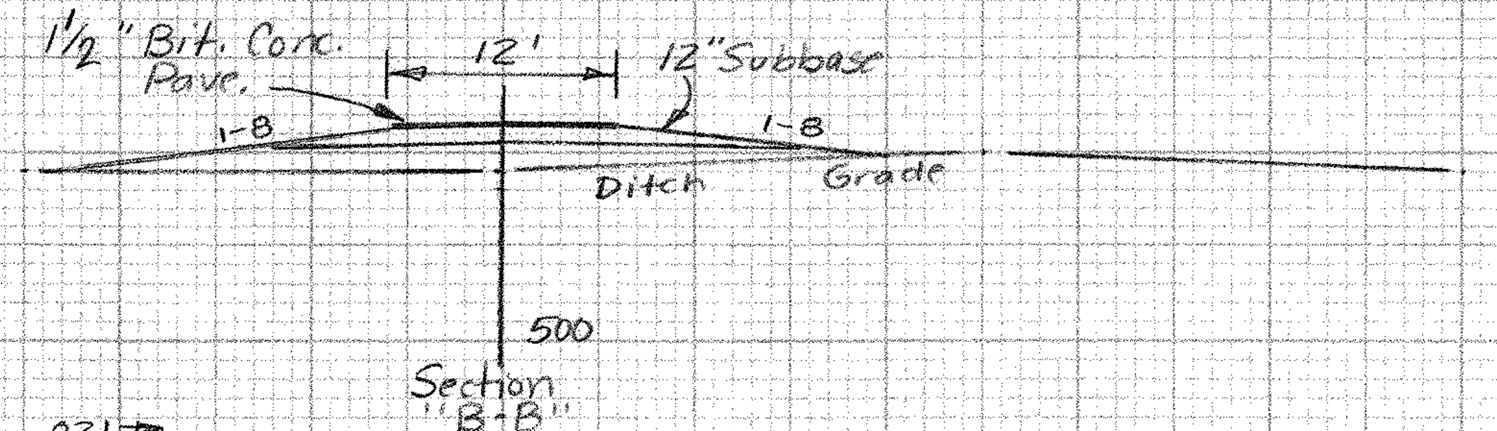
M 216+15 Lt ~ US2 12+73 Lt. (ISLAND)
Construct a 9' Wide Traffic Island
(Island to be Filled Level w/ 4" of Topsoil)
w/ Granite Slope Edging
(See Detail on Sht. #146)

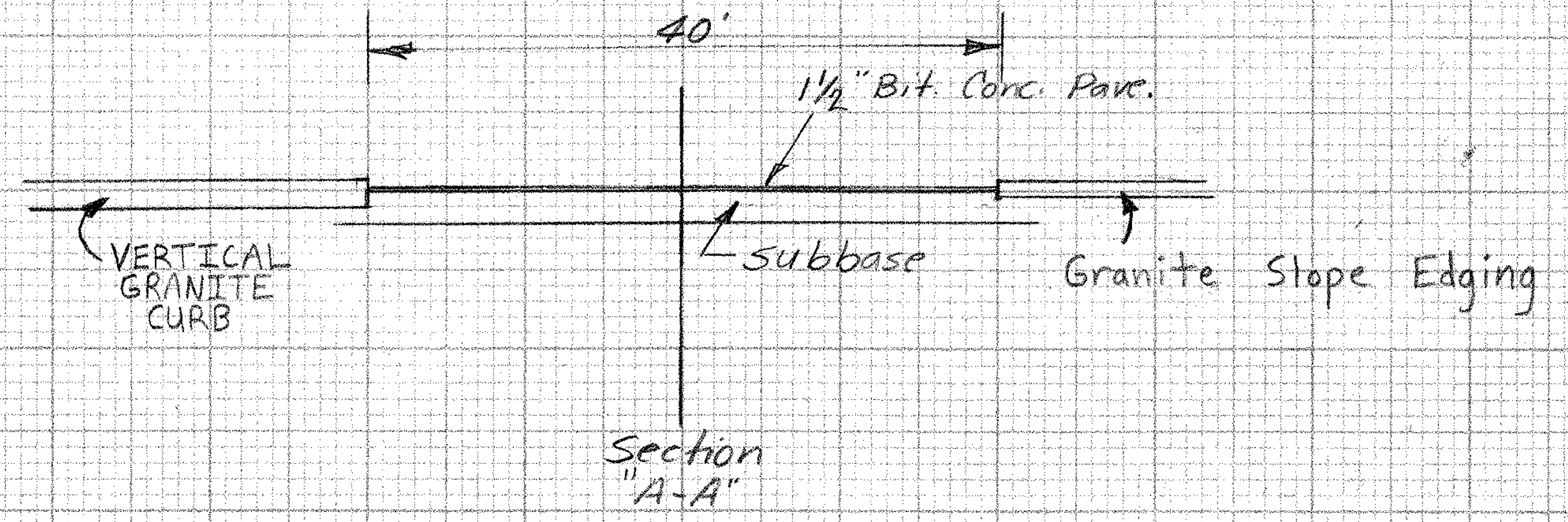
216+08 ~ 216+93 Rt.
Grade, Topsoil and Seed Existing
Gravel Road (Within Existing ROW)

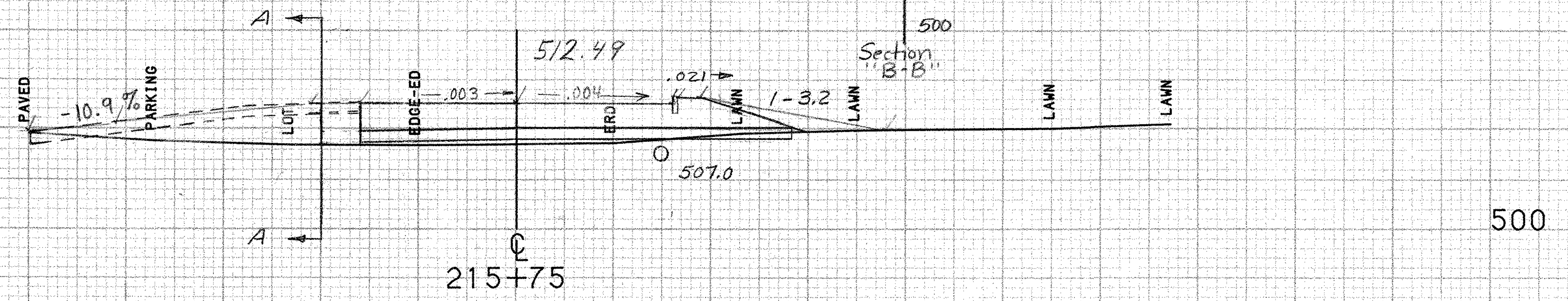


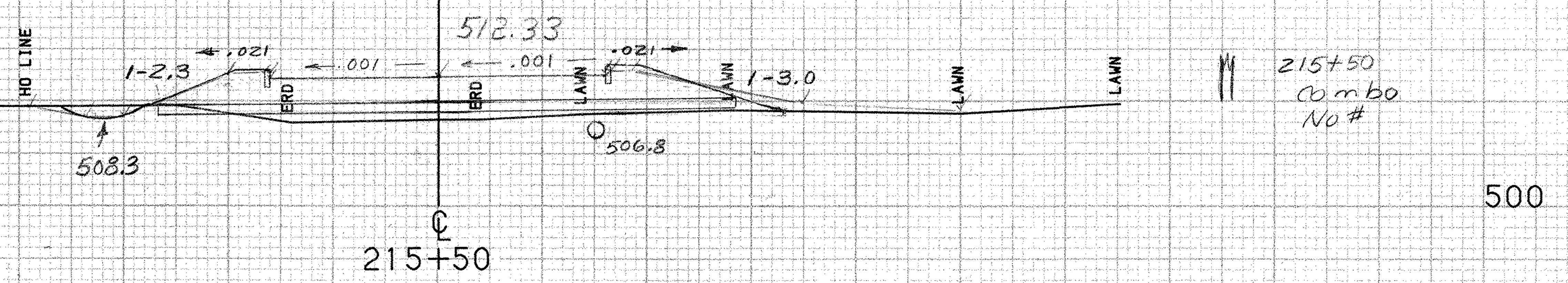
STA. 215 + 94 LT.
CONSTRUCT DRIVE (PAVED)

℄
216+00

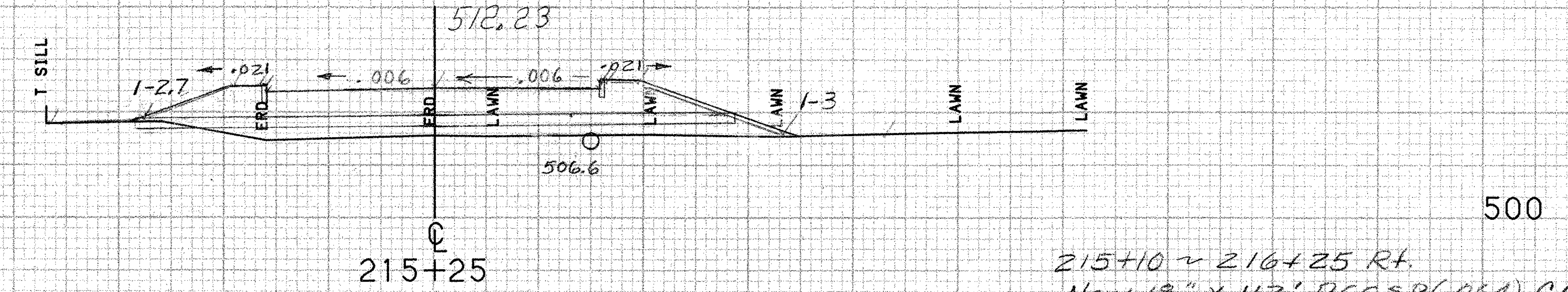








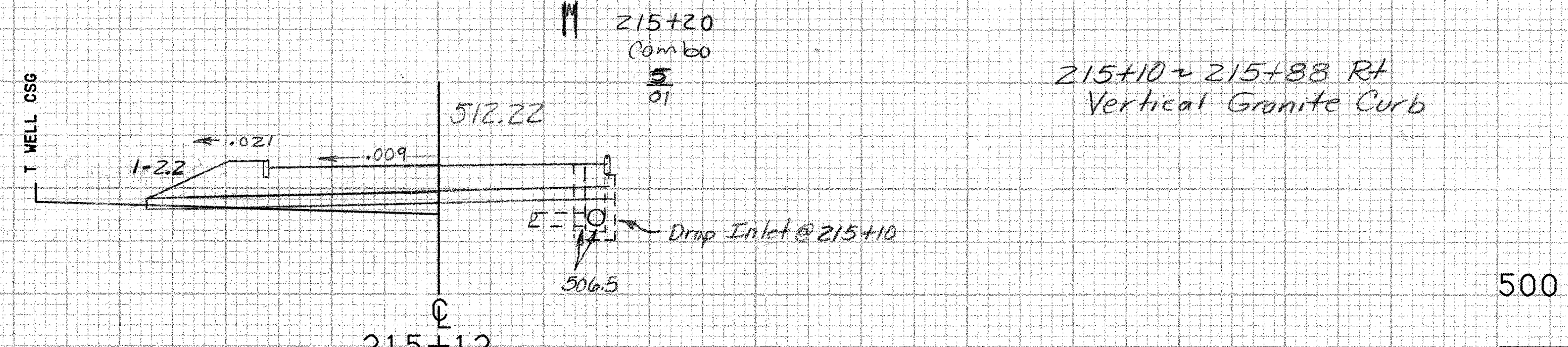
215+48 Lt.
Relocate Mailbox -
Single Support



215+10 ~ 216+25 Rt.
New 18" x 112' PCCSP(.064), CAAP(.060),
RCP CL III or CPEP(SL)

215+06 ~ 215+68 Lt.
Vertical Granite Curb

215+10 ~ 215+88 Rt
Vertical Granite Curb



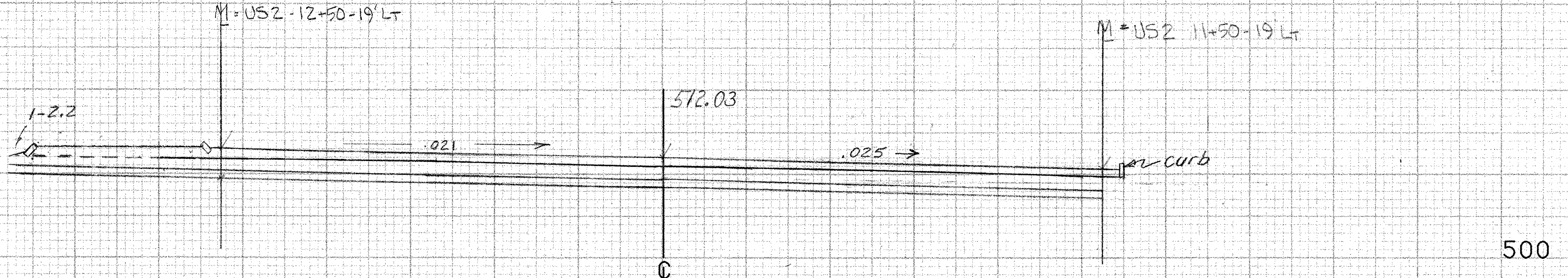
215+12
(ODD SECTION)

215+10 Rt ~ 215+13 Lt.
New 18" x 28' PCCSP(.064), CAAP(.060),
RCP CL III or CPEP(SL)

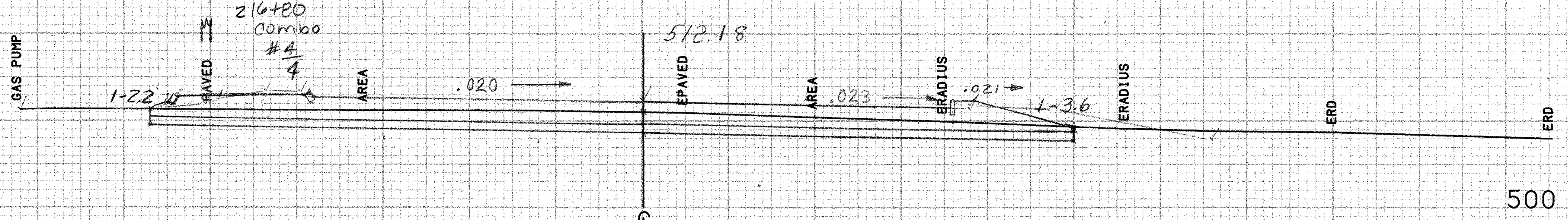
SCALE 10 FEET

FROM STA. 215+12 TO STA. 216+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. BRS0167(11) PLOTTED 05/04/87
SURVEYED BY MOREAU 01/86 0039
SHEET 233 OF 243 SHEETS

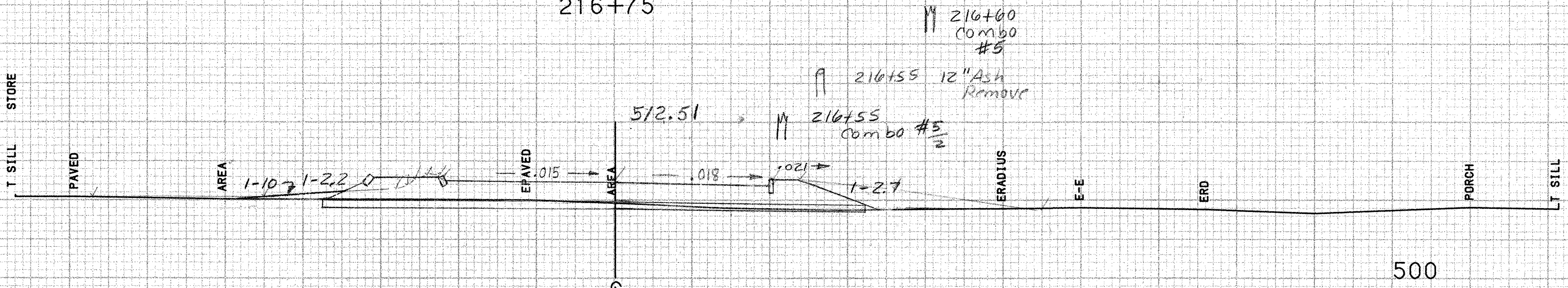
216+88.02
END PROJECT BRS 0167(11)
CONSTRUCT U.S. 2 APPROACH



℄
216+88.02
END M. BUTT TO U.S. 2 12-00-16' Lt

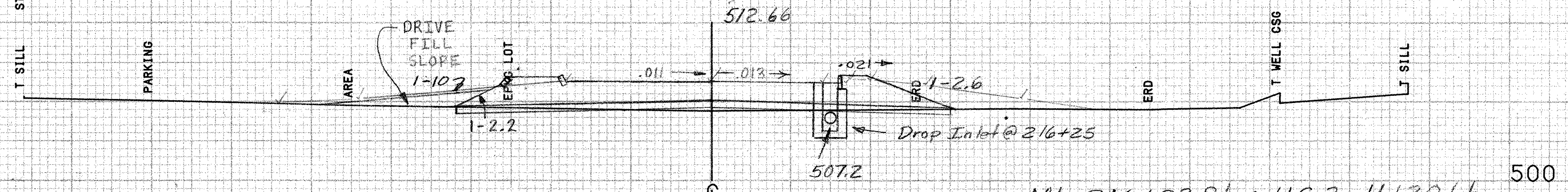


℄
216+75



℄
216+50

216+44 Rt.
Relocate Mailbox -
Multiple Support (10)

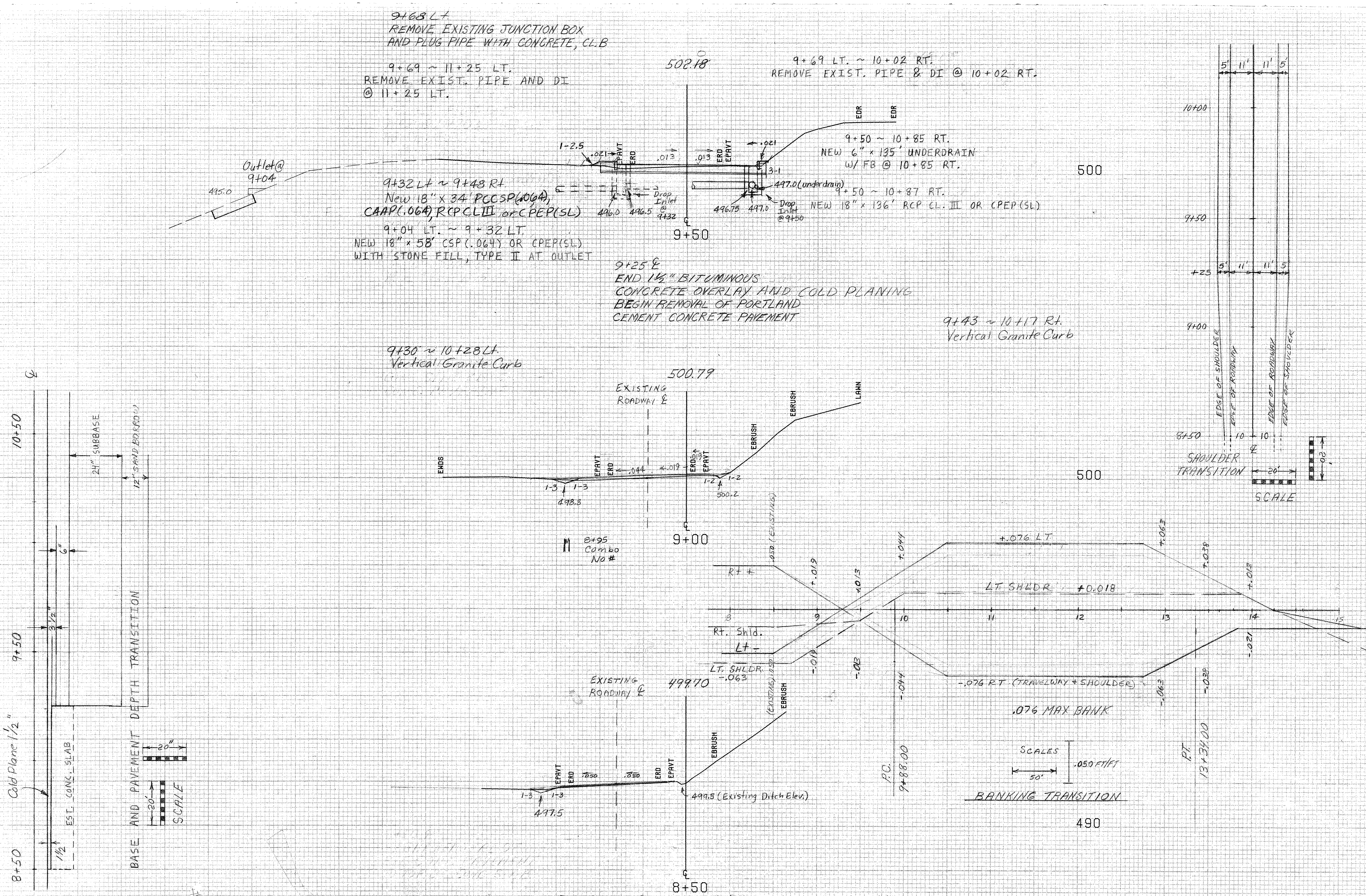


℄
216+25

ML 216+23 Rt ~ US 2 11+20 Lt
Vertical Granite Curb

SCALE 10 FEET

FROM STA. 216+25 TO STA. 217+00
PROJECT NAME MORETOWN-MIDDLESEX
NO. BRS0167(11) PLOTTED 05/04/87
SURVEYED BY MOREAU 01/86 0039
SHEET 234 OF 243 SHEETS



9+68 Lt.
REMOVE EXISTING JUNCTION BOX
AND PLUG PIPE WITH CONCRETE, CL.B

9+69 ~ 11+25 LT.
REMOVE EXIST. PIPE AND DI
@ 11+25 LT.

9+69 LT. ~ 10+02 RT.
REMOVE EXIST. PIPE & DI @ 10+02 RT.

9+50 ~ 10+85 RT.
NEW 6" × 135' UNDERDRAIN
W/ FB @ 10+85 RT.

9+50 ~ 10+87 RT.
NEW 18" × 136' RCP CL. III OR CPEP(SL)

9+32 Lt ~ 9+48 Rt
New 18" × 34' PCCSP(.064),
CAAP(.064), RCP CL III or CPEP(SL)

9+04 LT. ~ 9+32 LT.
NEW 18" × 58' CSP (.064) OR CPEP(SL)
WITH STONE FILL, TYPE II AT OUTLET

9+25 ℄
END 1½" BITUMINOUS
CONCRETE OVERLAY AND COLD PLANING
BEGIN REMOVAL OF PORTLAND
CEMENT CONCRETE PAVEMENT

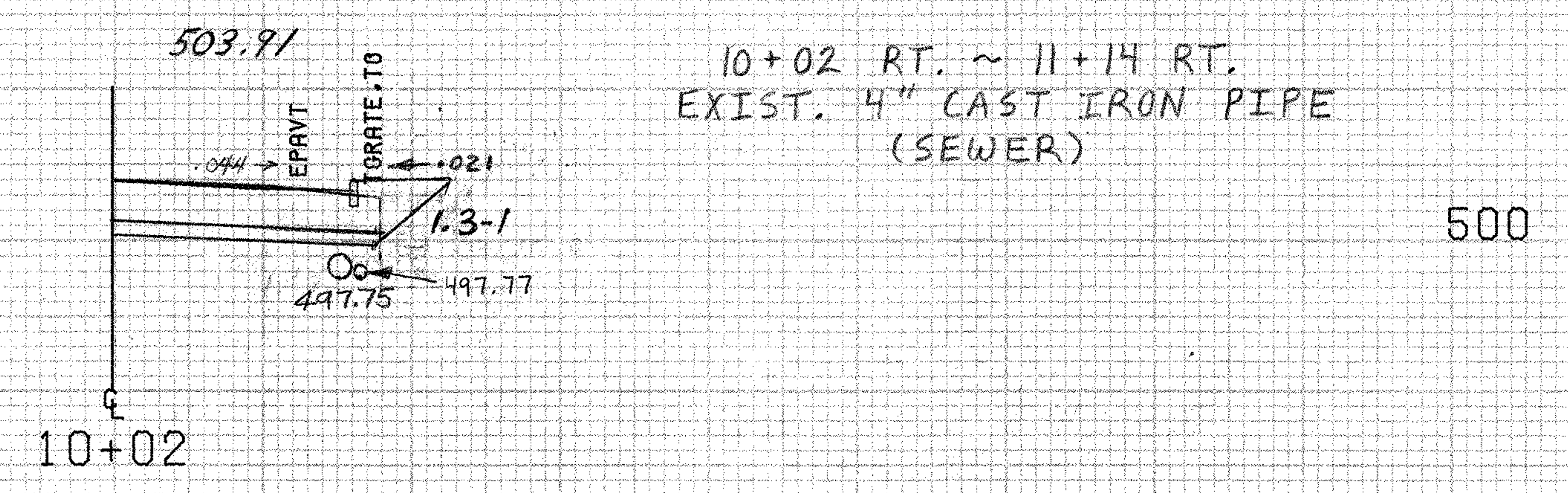
9+43 ~ 10+17 Rt.
Vertical Granite Curb

9+30 ~ 10+28 Lt.
Vertical Granite Curb

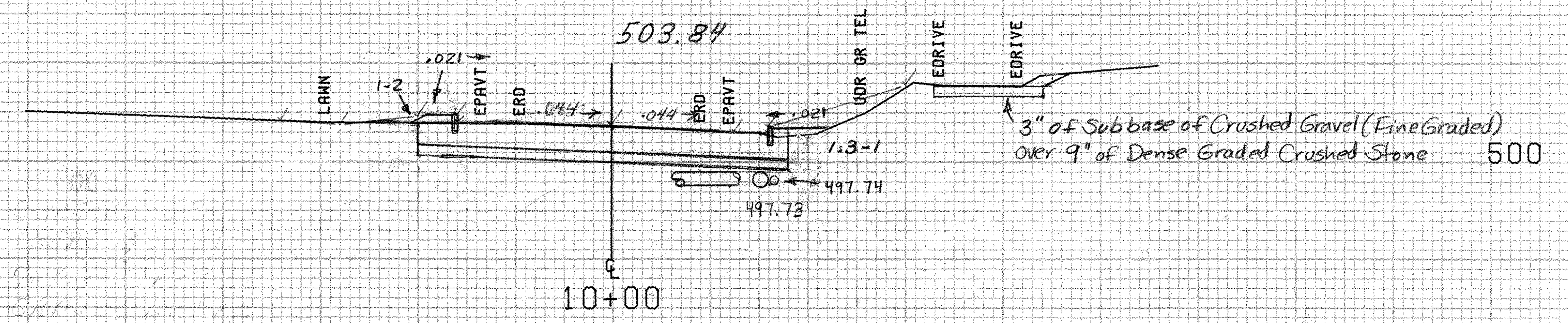
BEGIN REMOVAL OF BITUMINOUS CONCRETE PAVEMENT
TO 1½" DEPTH BY COLD PLANING
BEGIN U.S. 2 APPROACH CONSTRUCTION
BEGIN 1½" BITUMINOUS CONCRETE OVERLAY

SCALE 10 FEET

FROM STA. 8+50 TO STA. 9+50
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 235 OF 243 SHEETS



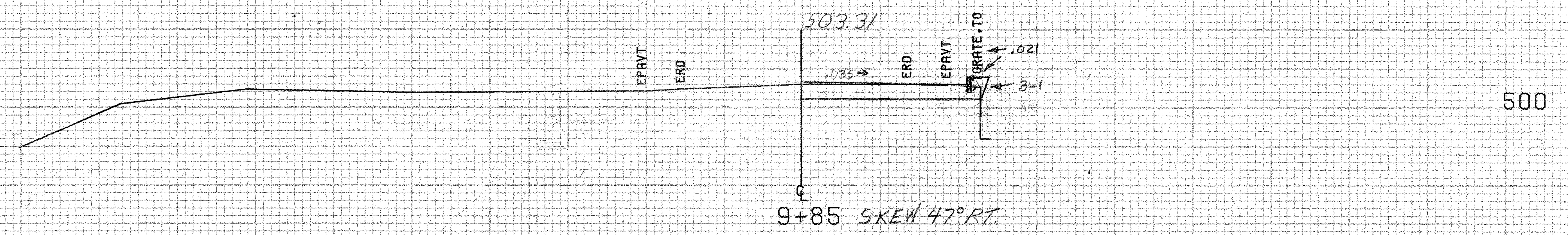
10+02 RT. ~ 11+14 RT.
EXIST. 4" CAST IRON PIPE
(SEWER)



3" of Subbase of Crushed Gravel (Fine Graded)
over 9" of Dense Graded Crushed Stone

9+90
Combo 6/01

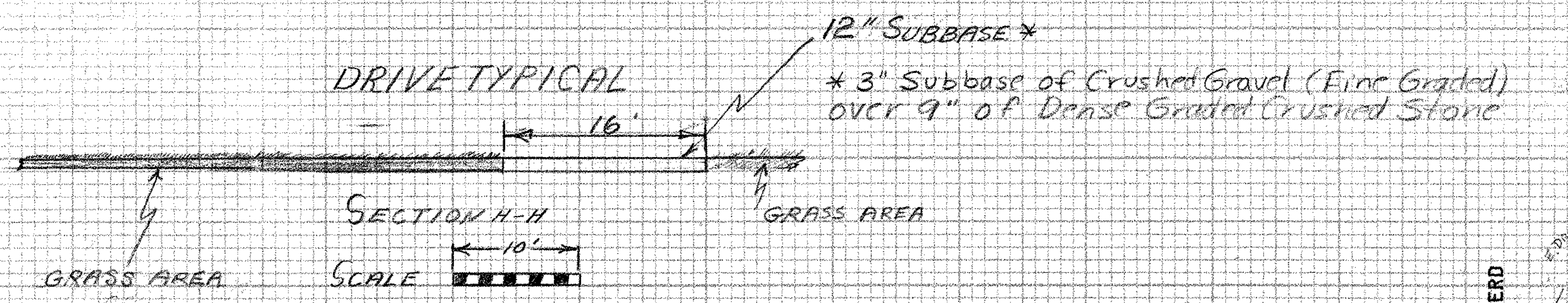
P.C. @ 9+88.00



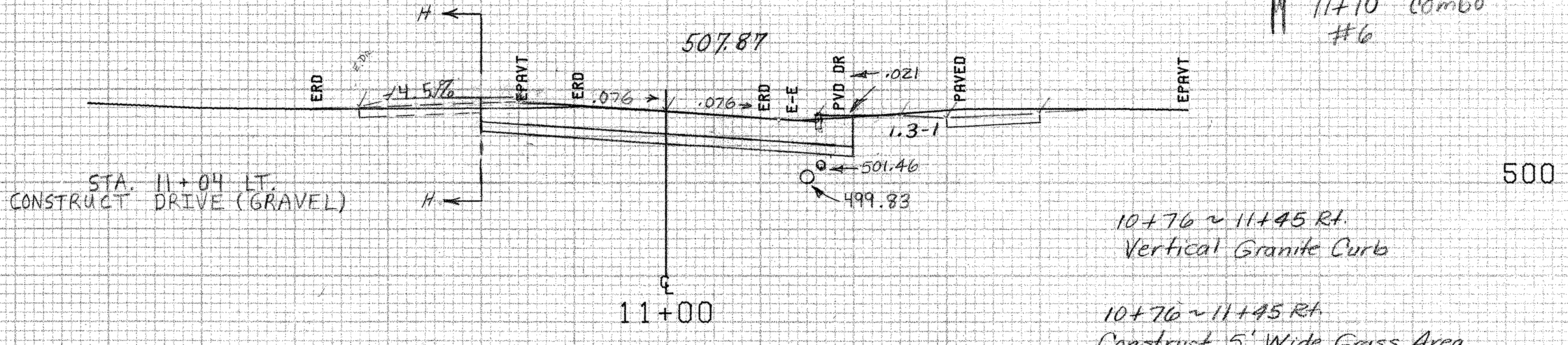
9+85 SKEW 47° RT.

SCALE 10 FEET

FROM STA. 9+85 TO STA. 10+02
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 236 OF 243 SHEETS



11+10 Combo #6

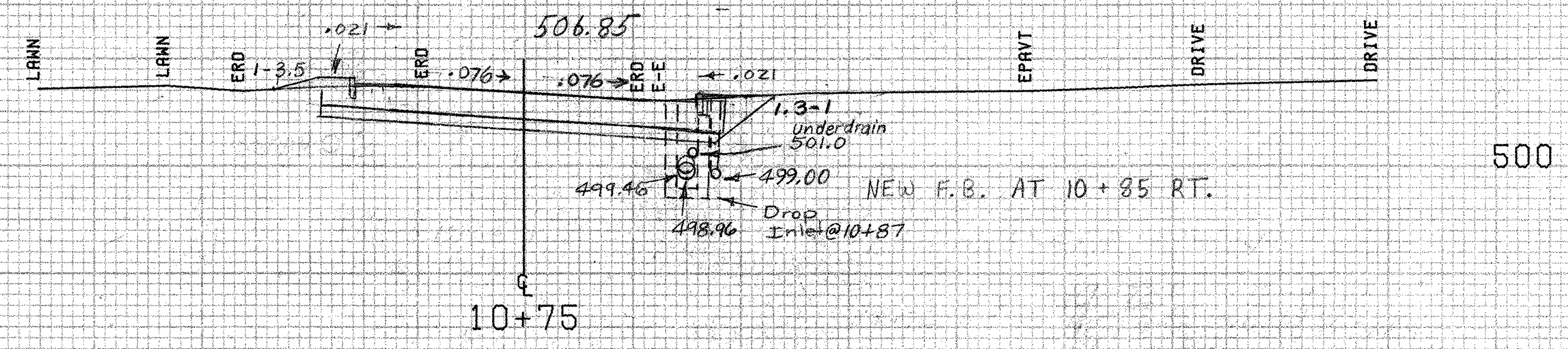


10+76 ~ 11+45 Rt.
Vertical Granite Curb

10+76 ~ 11+45 Rt.
Construct 5' Wide Grass Area

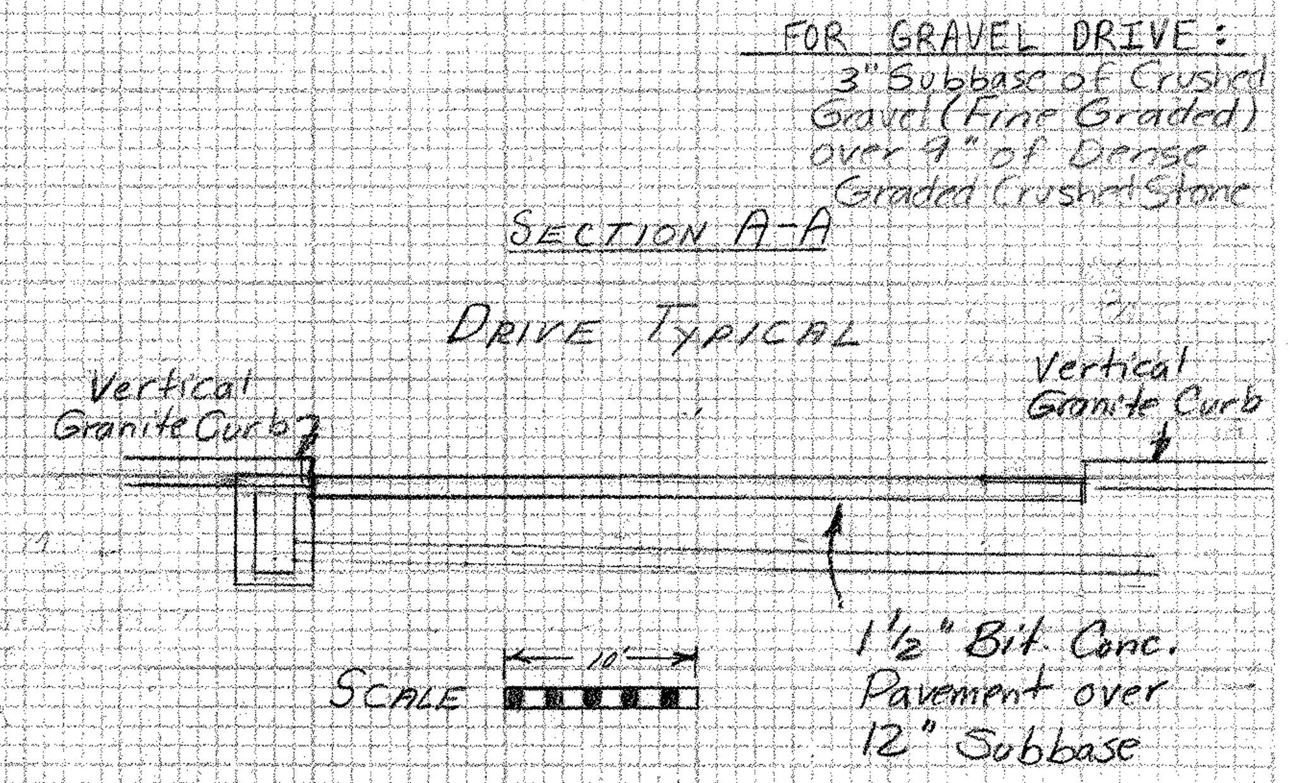
10+87 ~ 12+00 RT.
NEW 6" × 113' UNDERDRAIN
W/ FB @ 12+00 RT.

10+87 ~ 12+02 RT.
NEW 18" × 108' RCP CL. III
OR CPEP (SL)

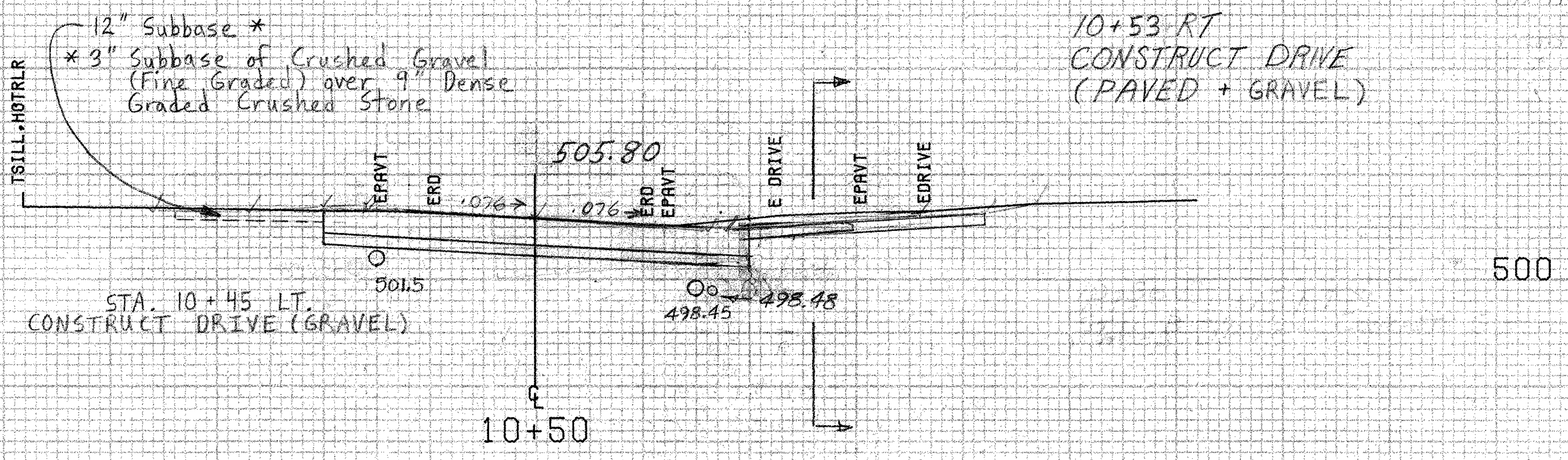


10+62 ~ 10+87 Lt.
Vertical Granite Curb

10+55 ~ 10+95 Lt.
Construct 5' Wide
Grass Area



10+53 RT
CONSTRUCT DRIVE
(PAVED + GRAVEL)



10+11 ~ 10+36 Lt.
Construct 5' Wide
Grass Area

SCALE 10 FEET

FROM STA. 10+50 TO STA. 11+00
ROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
URVEYED BY NYE JAN 1985
SHEET 237 OF 243 SHEETS

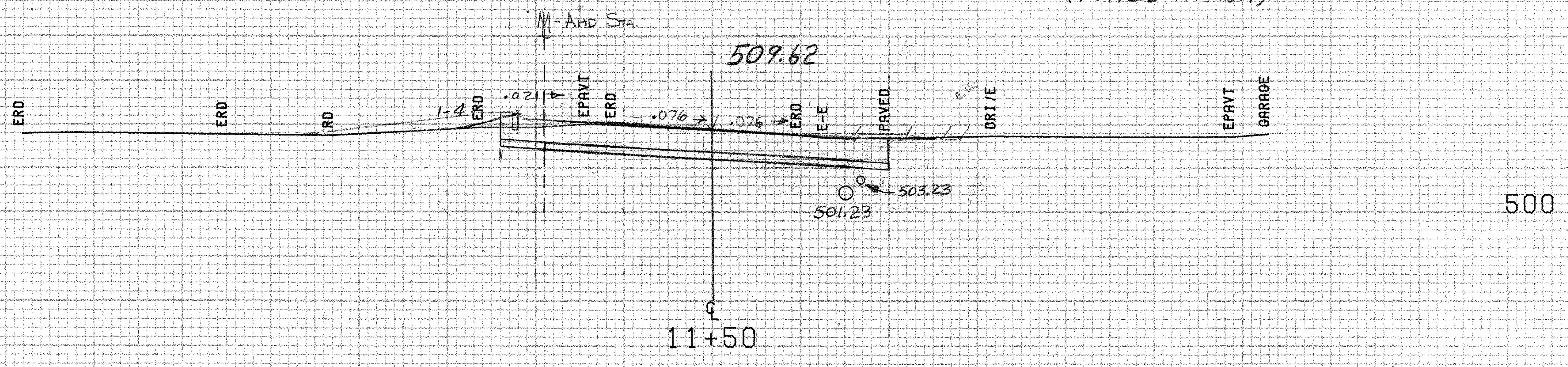
CROSS SECTION SHEET

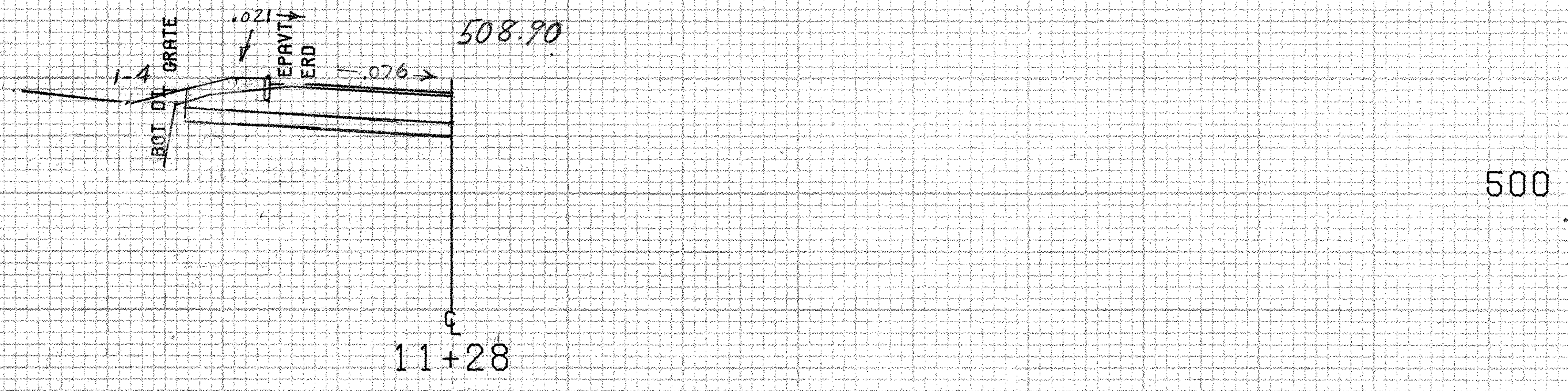
PROJECT NAME: Moretown-Middlesex
PROJECT NUMBER: BRS 0167(11)

FILE NAME: Sewer Sleeve Crossing VS 2
PROJECT LEADER:
DESIGNED BY:
const: g:/common/cadd/e-xsection.dgn

PLOT DATE: 05-JUN-2000 09
DRAWN BY: STW 11-2-01
CHECKED BY:
SHEET 1 OF 1

STA. 11+68 RT
CONSTRUCT DRIVE
(PAVED APRON)

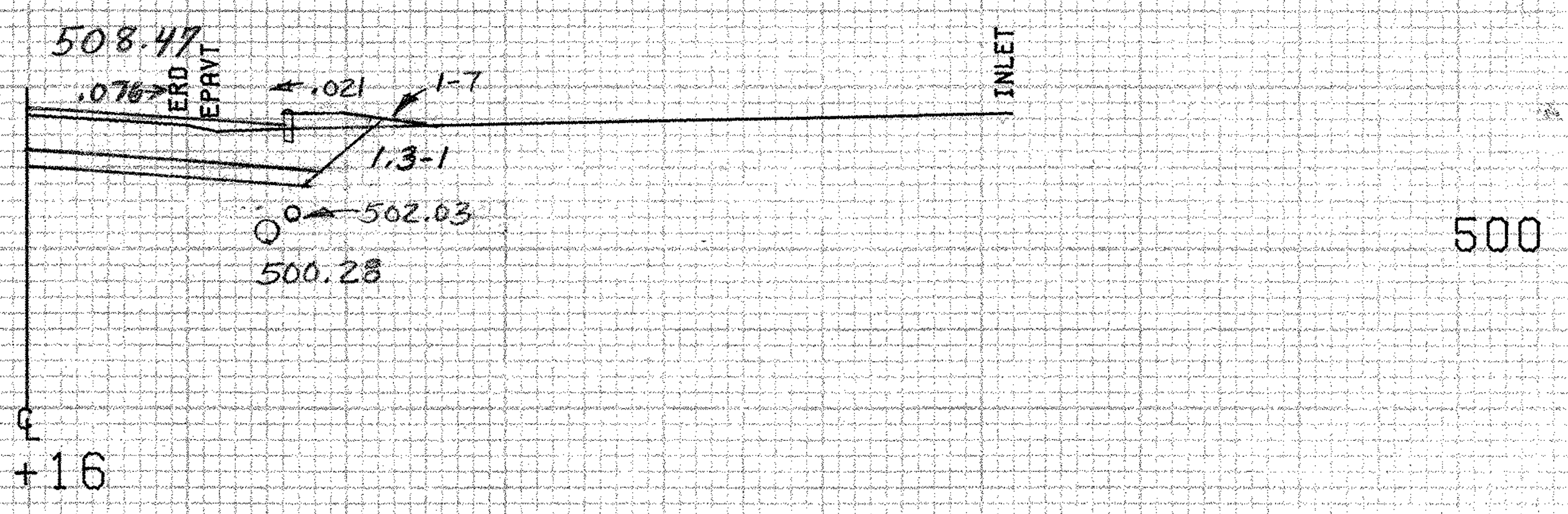




11+25 LT. ~ 13+71 LT. EXIST. 15" RCP
REMOVE EXIST. PIPE AND DI @ 13+71 LT.

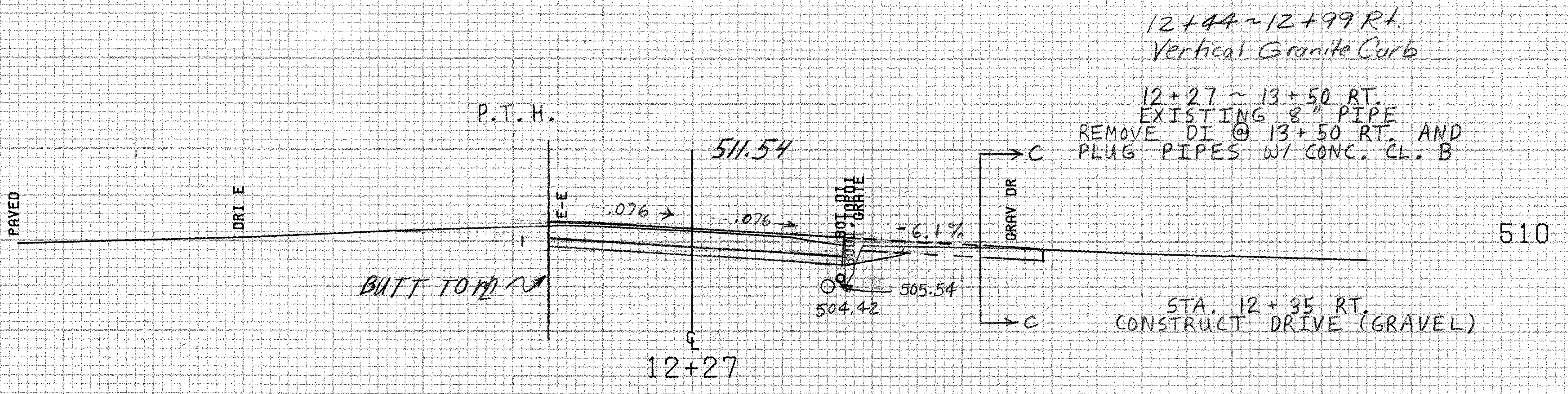
11+25 ~ 12+27 RT. EXIST. 15" RCP
REMOVE EXIST. PIPE AND DI @ 12+27 RT.

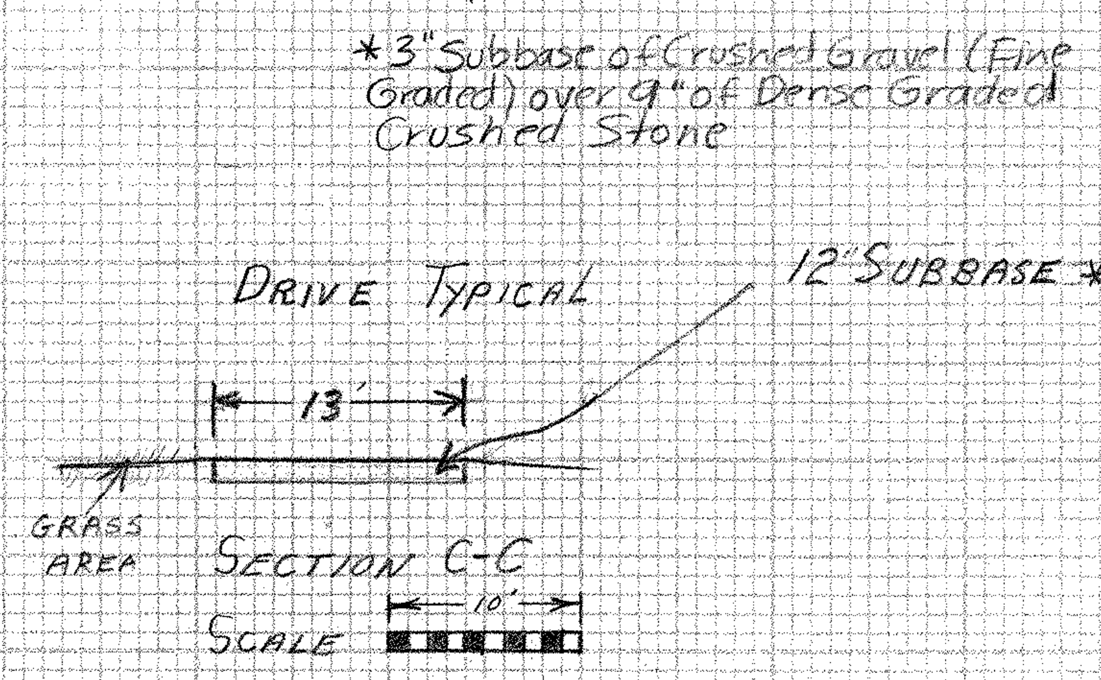
USZ 11+20 Lt ≈ ML 216+23 Rt.
Vertical Granite Curb

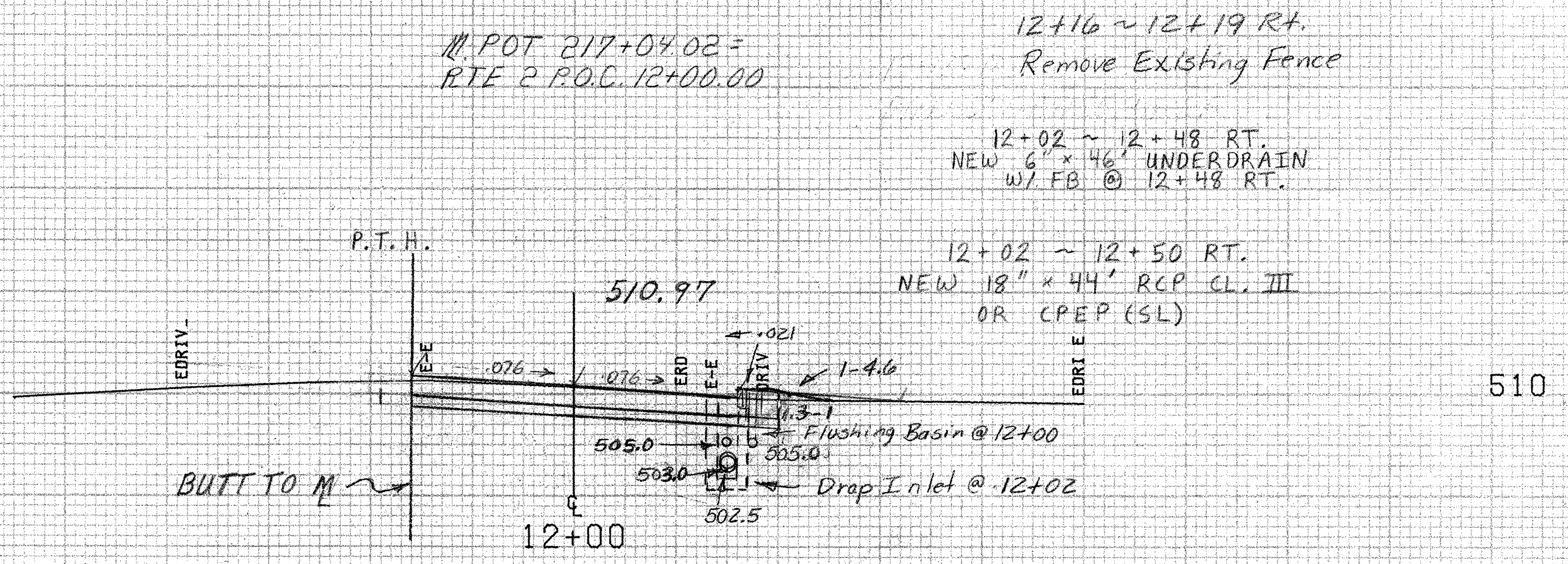


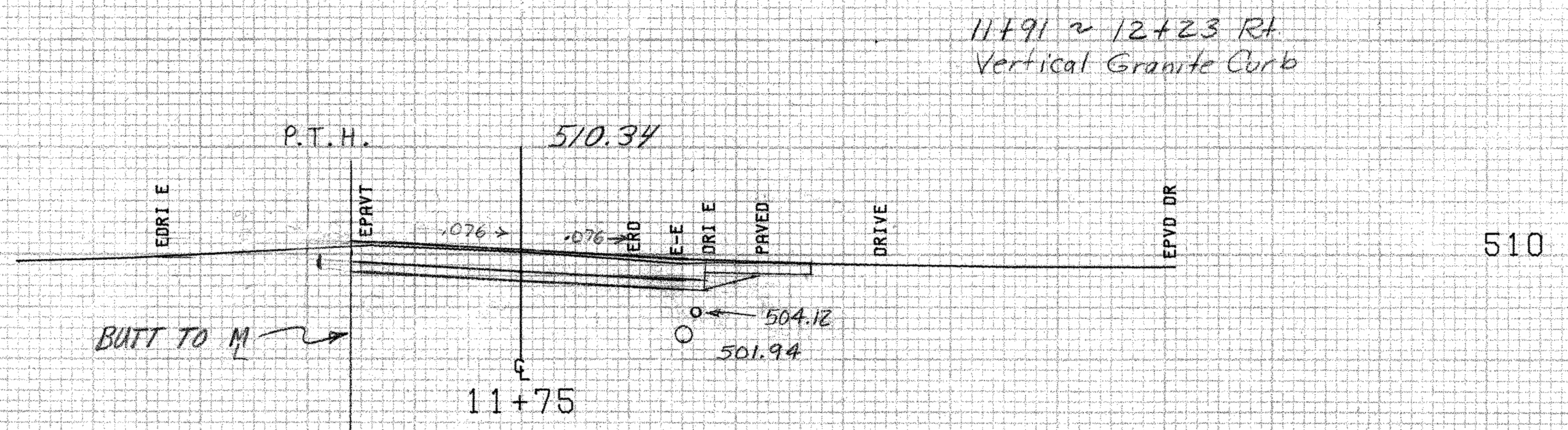
SCALE 10 FEET

FROM STA. 11+16 TO STA. 11+50
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(1) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 238 OF 243 SHEETS





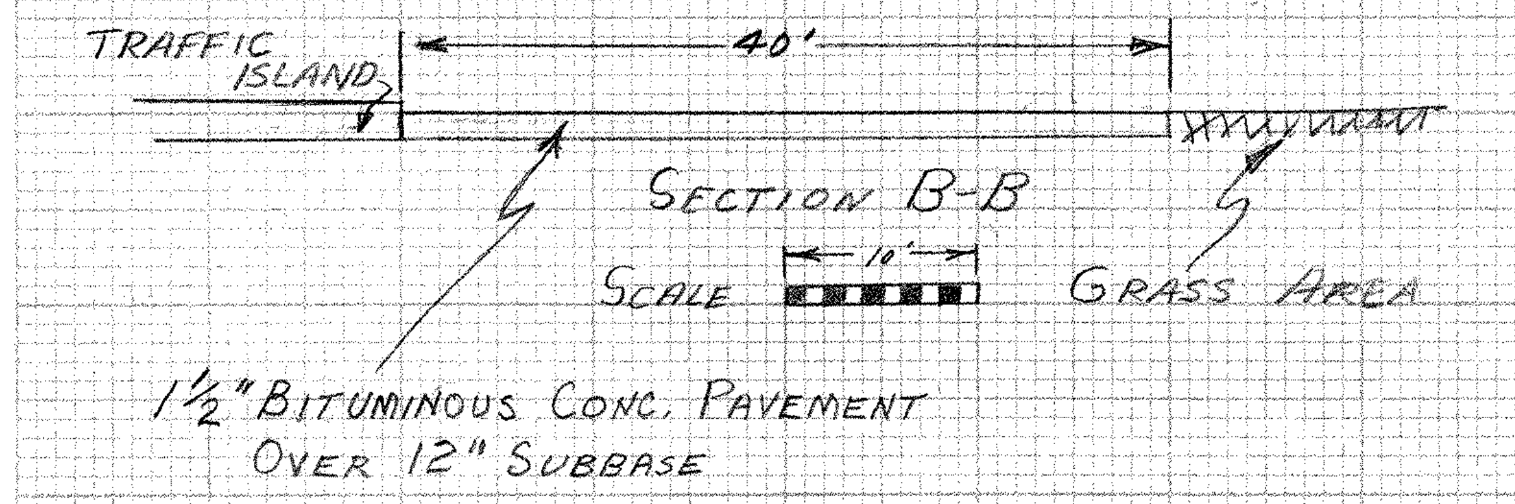




SCALE 10 FEET

FROM STA. 11+75 TO STA. 12+27
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(1) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 239 OF 243 SHEETS

DRIVE TYPICAL



SECTION B-B

SCALE

1½" BITUMINOUS CONC. PAVEMENT
OVER 12" SUBBASE

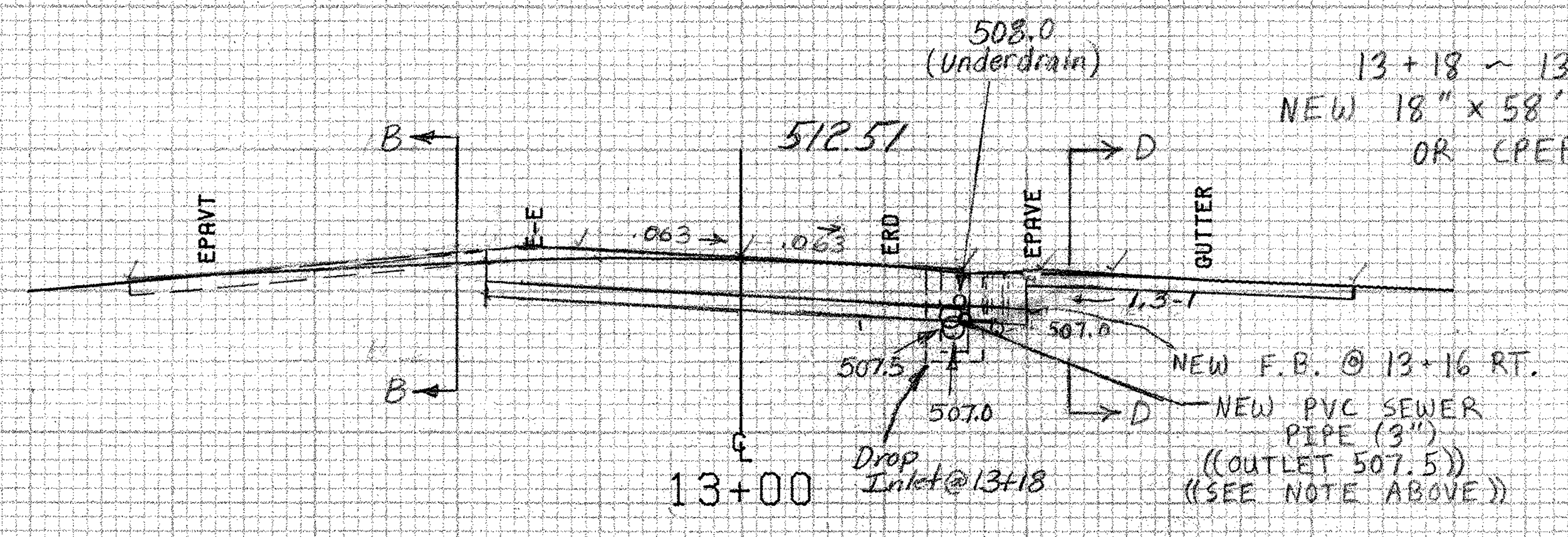
STA. 12+93 Lt.
CONSTRUCT DRIVE
(PAVED)

P.T. 13+34.00

13+18 ~ 13+50 RT.
NEW 3" × 31' PVC SEWER PIPE
CONNECT TO EXIST. 3" PLASTIC PIPE
@ 13+50 RT.

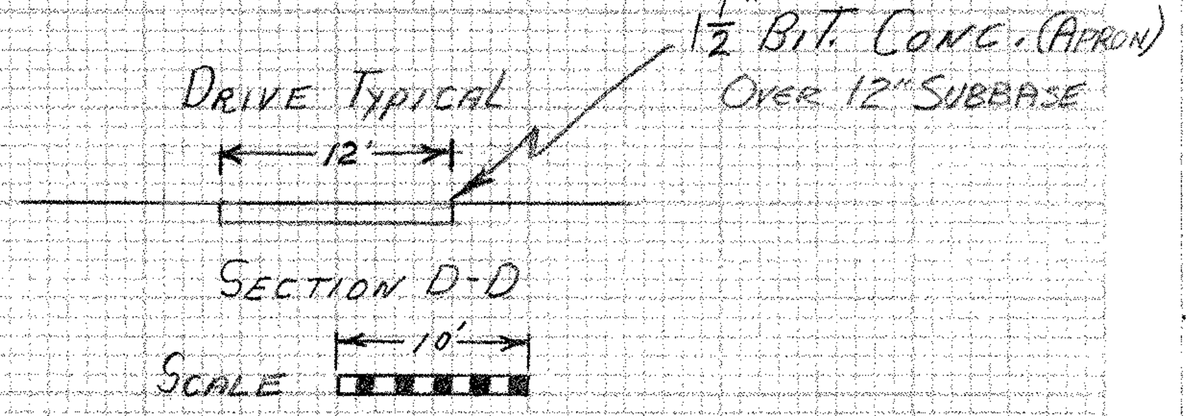
13+19 ~ 13+76 RT.
NEW 6" × 57' UNDERDRAIN
W/ FB @ 13+76 RT.

13+18 ~ 13+78 RT.
NEW 18" × 58' RCP CL. III
OR CPEP (SL)



13+06 RT
CONSTRUCT DRIVE
(GRAVEL)

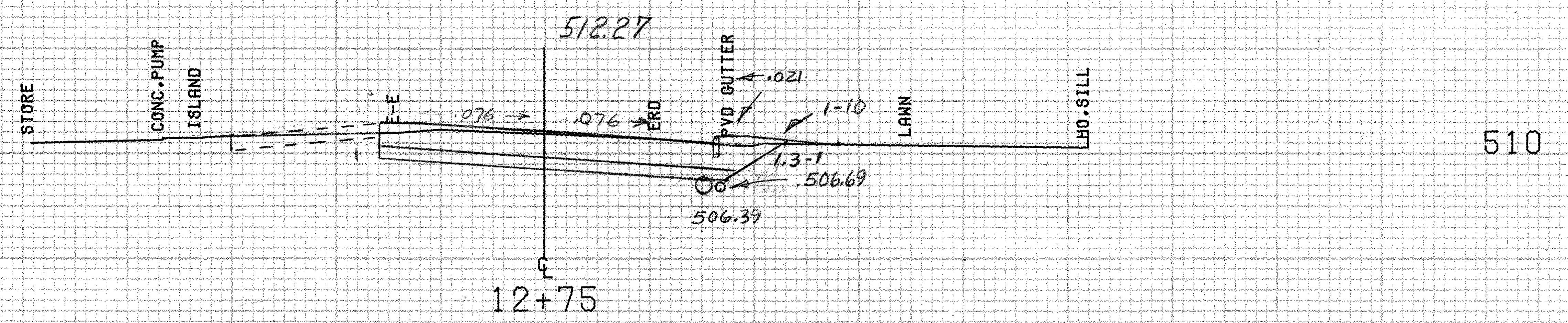
Drive Typical



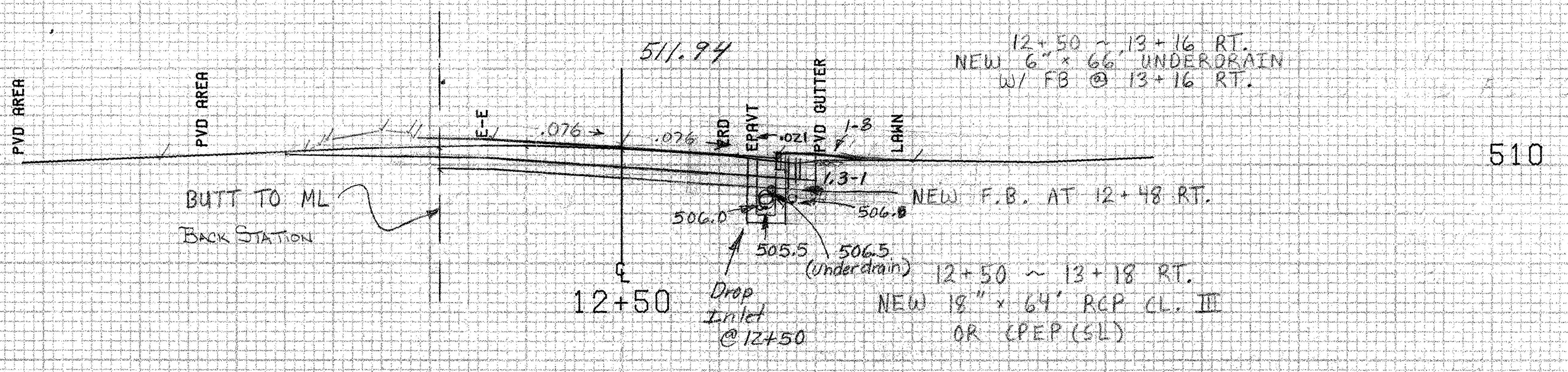
1½" BIT. CONC. (APRON)
OVER 12" SUBBASE

SECTION D-D

SCALE



12+50 ~ 13+16 RT.
NEW 6" × 66' UNDERDRAIN
W/ FB @ 13+16 RT.



12+50 ~ 13+18 RT.
NEW 18" × 64' RCP CL. III
OR CPEP (SL)

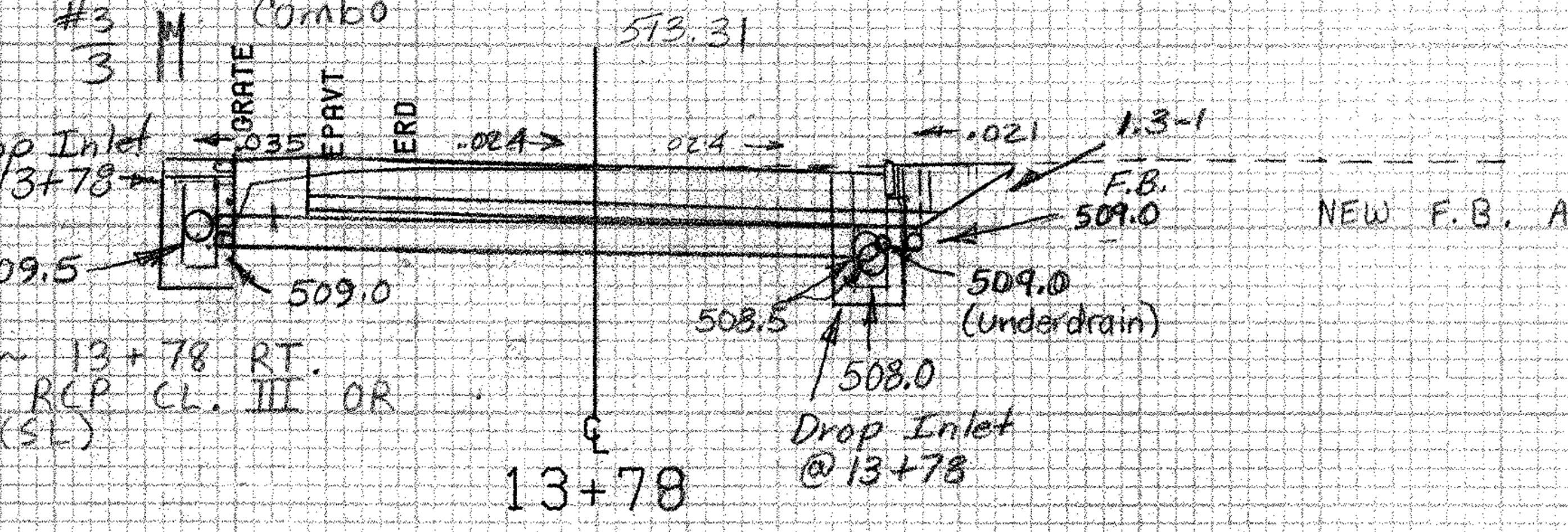
SCALE 10 FEET

FROM STA. 12+50 TO STA. 13+00
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 240 OF 243 SHEETS

13+78 LT.
EXIST. 15" RCP:
CONNECT TO NEW DI @ STA.
13+78 LT.

13+78 ~ 14+25 RT.
NEW 6" × 47' UNDERDRAIN
W/ FB @ 14+25 RT.

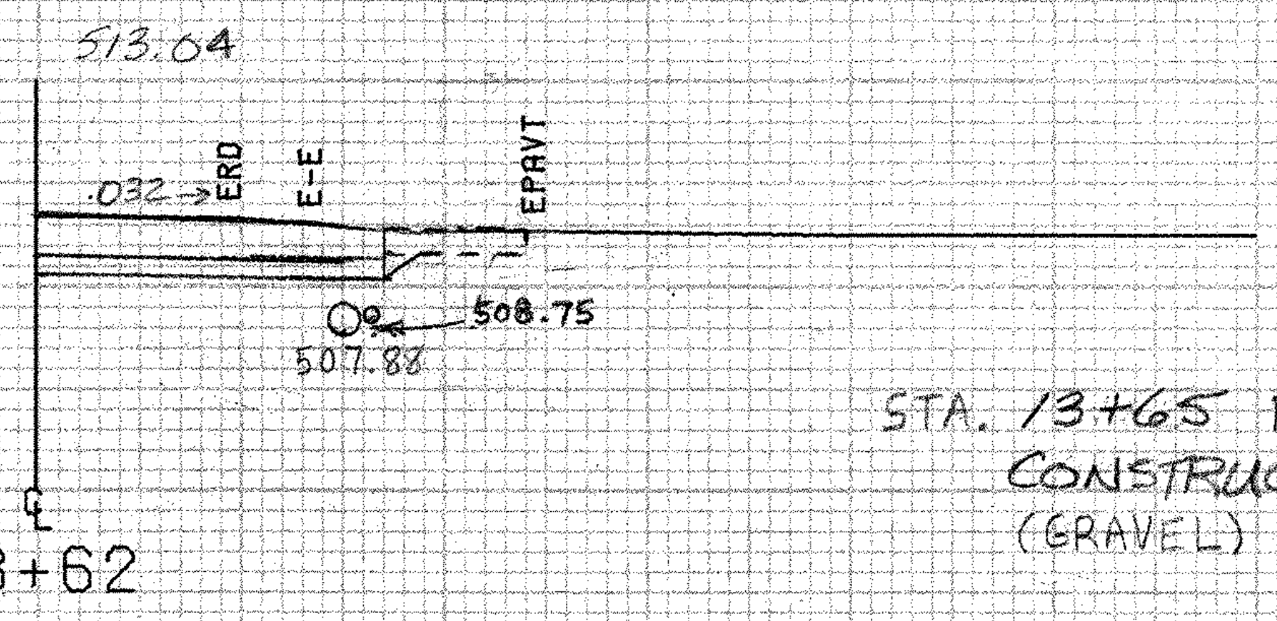
13+78 ~ 14+58 RT.
NEW 18" × 108' RCP CL. III
OR CPEP (SL)



13+78 LT. ~ 13+78 RT.
NEW 18" × 36' RCP CL. III OR
CPEP (SL)

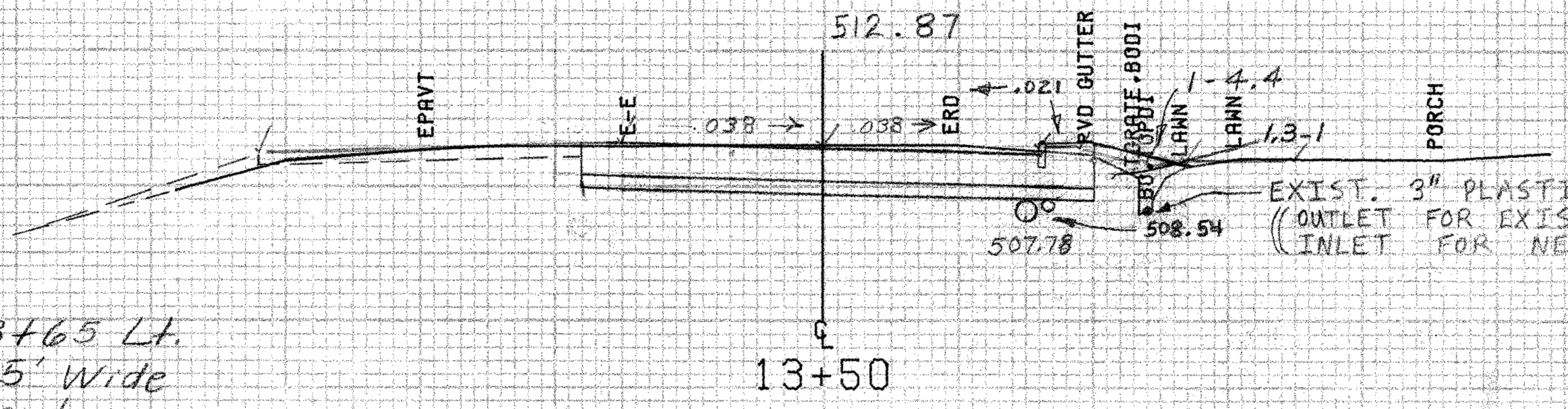
NEW F.B. AT 13+76 RT.

13+72 ~ 14+65 Rt.
Vertical Granite Curb



STA. 13+65 RT.
CONSTRUCT DRIVE
(GRAVEL)

13+50 ~ 14+58 RT.
EXISTING 8" PIPE
REMOVE DI @ 14+58 RT. AND PLUG
PIPES W/ CONC. CL. B



EXIST. 3" PLASTIC PIPE
((OUTLET FOR EXIST. PIPE
(INLET FOR NEW PIPE → 508.0))

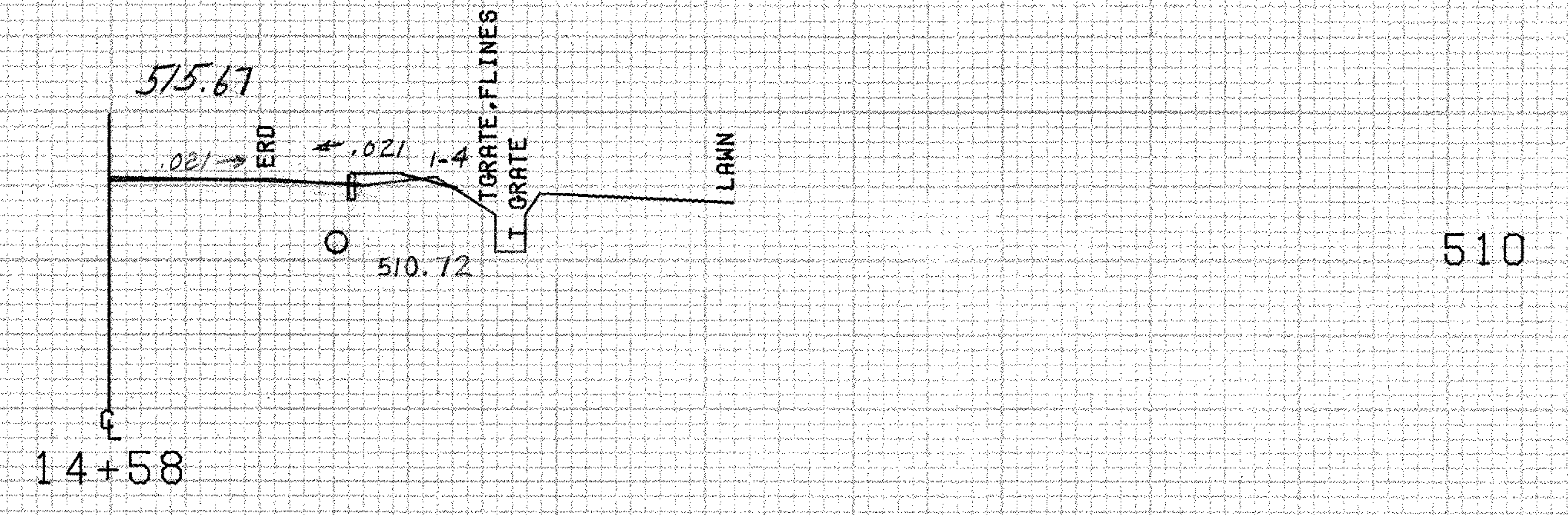
13+11 ~ 13+65 Lt.
Construct 5' Wide
Grass Island

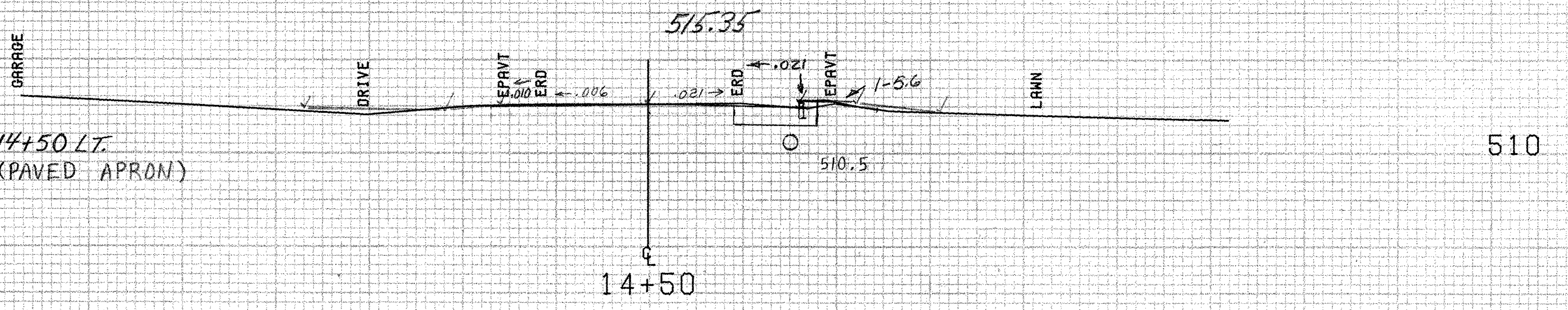
13+50 ~ 13+72 RT.
EXIST. 3" PLASTIC PIPE

13+14 ~ 13+58 Rt.
Vertical Granite Curb

SCALE 10 FEET

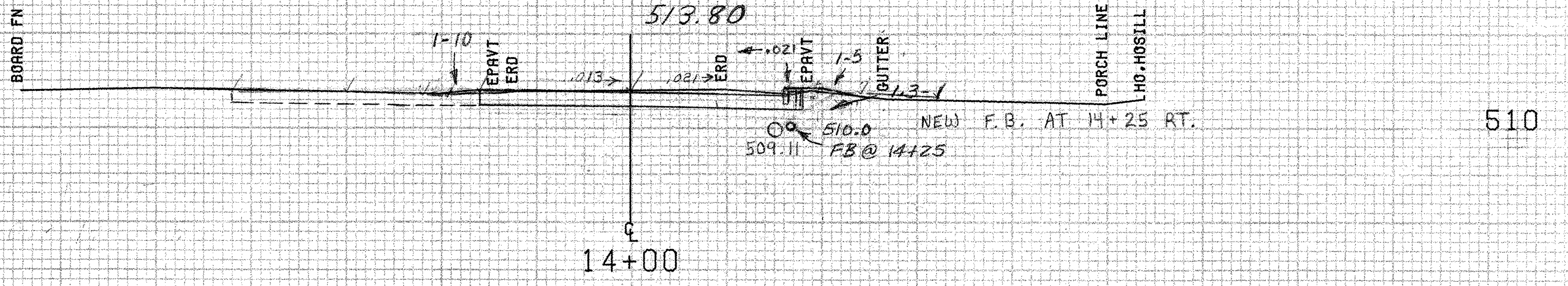
FROM STA. 13+50 TO STA. 13+70
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 241 OF 243 SHEETS





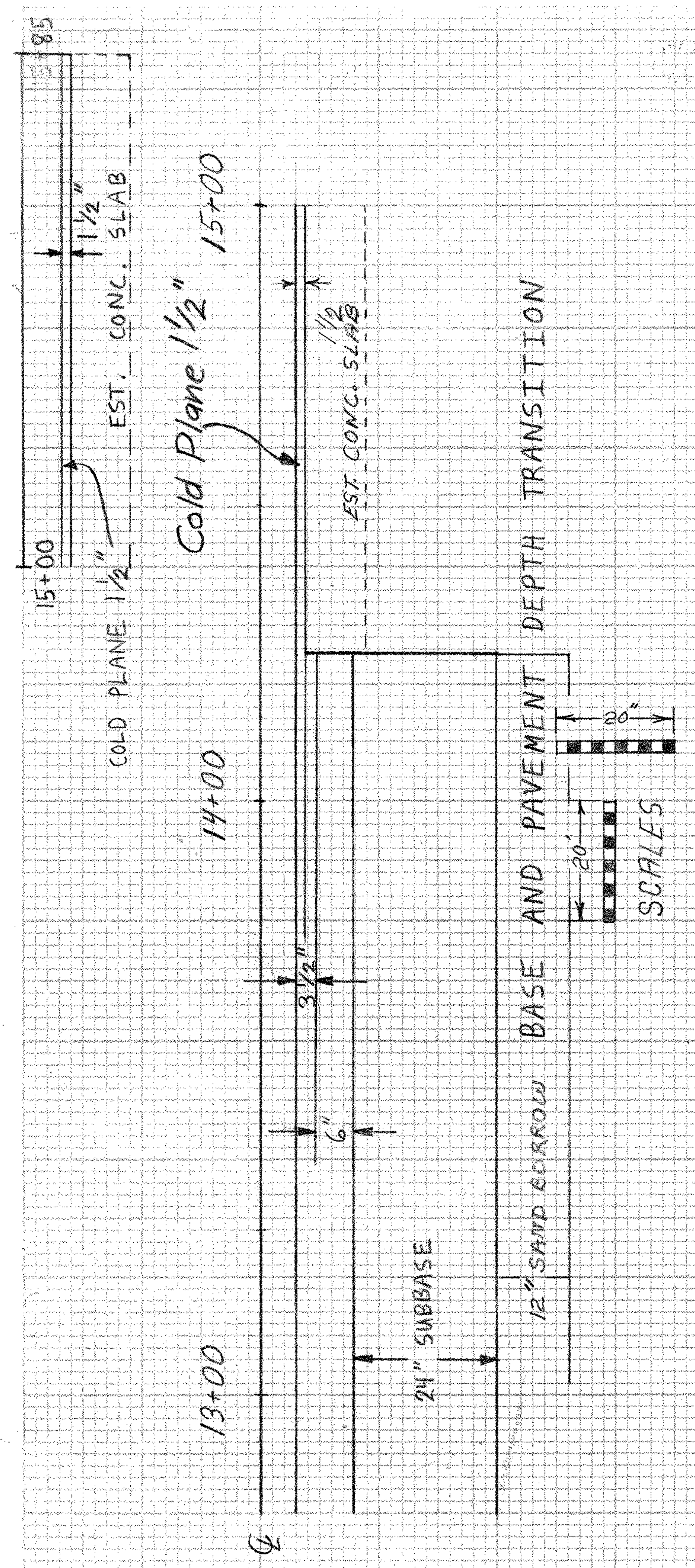
STA. 14+50 LT.
CONSTRUCT (PAVED APRON)

14+25 ℄
END REMOVAL OF PORTLAND
CEMENT CONCRETE PAVEMENT
BEGIN REMOVAL OF BITUMINOUS CONCRETE PAVEMENT
TO 1½" DEPTH BY COLD PLANING
BEGIN 1½" BITUMINOUS CONCRETE OVERLAY



SCALE 10 FEET

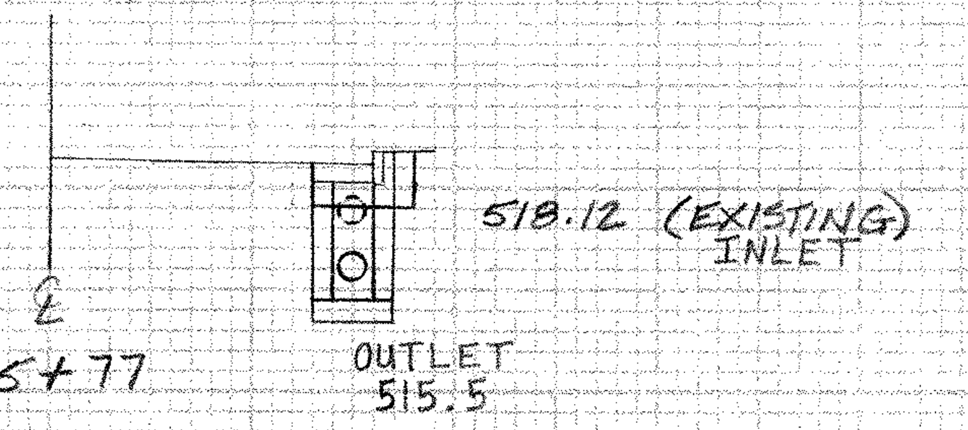
FROM STA. 14+00 TO STA. 14+58
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 242 OF 243 SHEETS



16+63 LT.
END EXCAVATION OF SURFACES AND PAVEMENTS
(Area to be topsoiled, seeded and mulched)

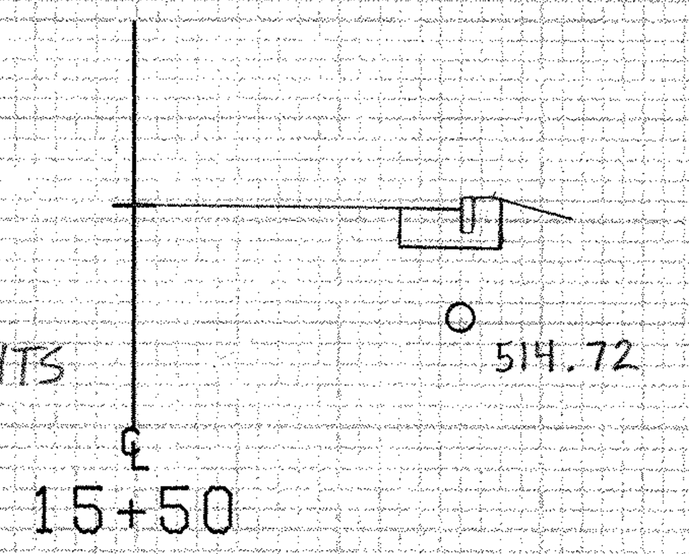
U.S. 2 STA. 16+63 ℄
END APPROACH CONSTRUCTION

U.S. 2 STA. 15+85 ℄
END REMOVAL OF BITUMINOUS CONCRETE PAVEMENT
END 1½" BITUMINOUS CONCRETE OVERLAY

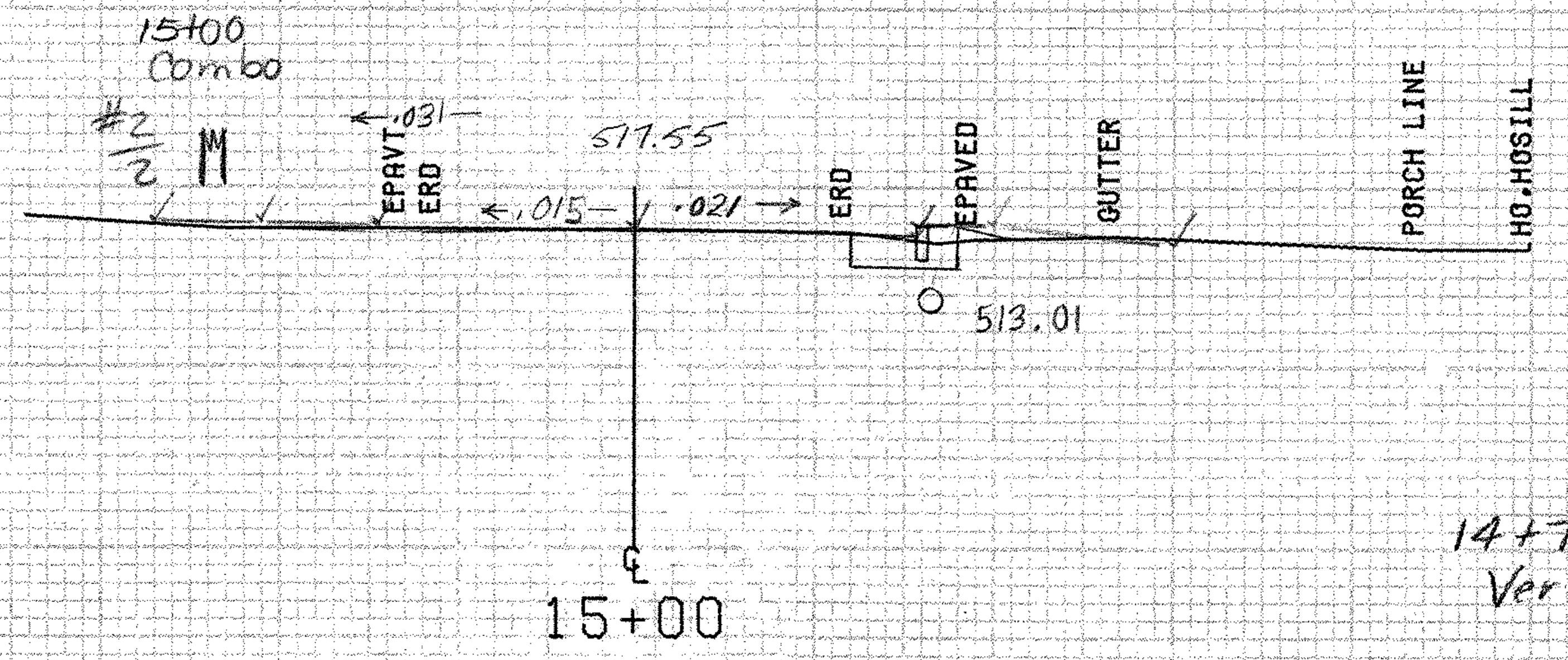


520

15+50 LT.
BEGIN EXCAVATION OF SURFACES AND PAVEMENTS
(Area to be topsoiled, seeded and mulched)

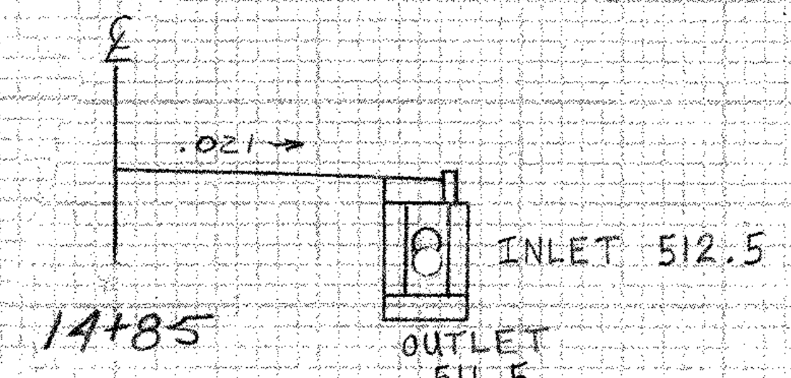


520



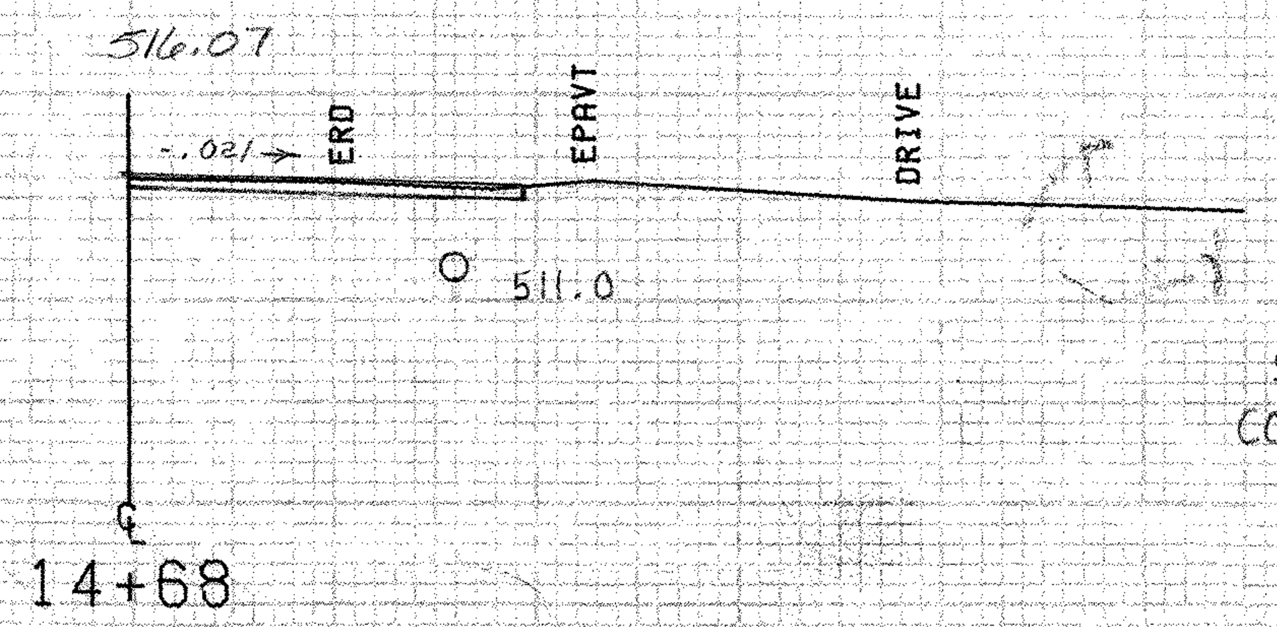
510

14+79 ~ 15+82 Rt.
Vertical Granite Curb



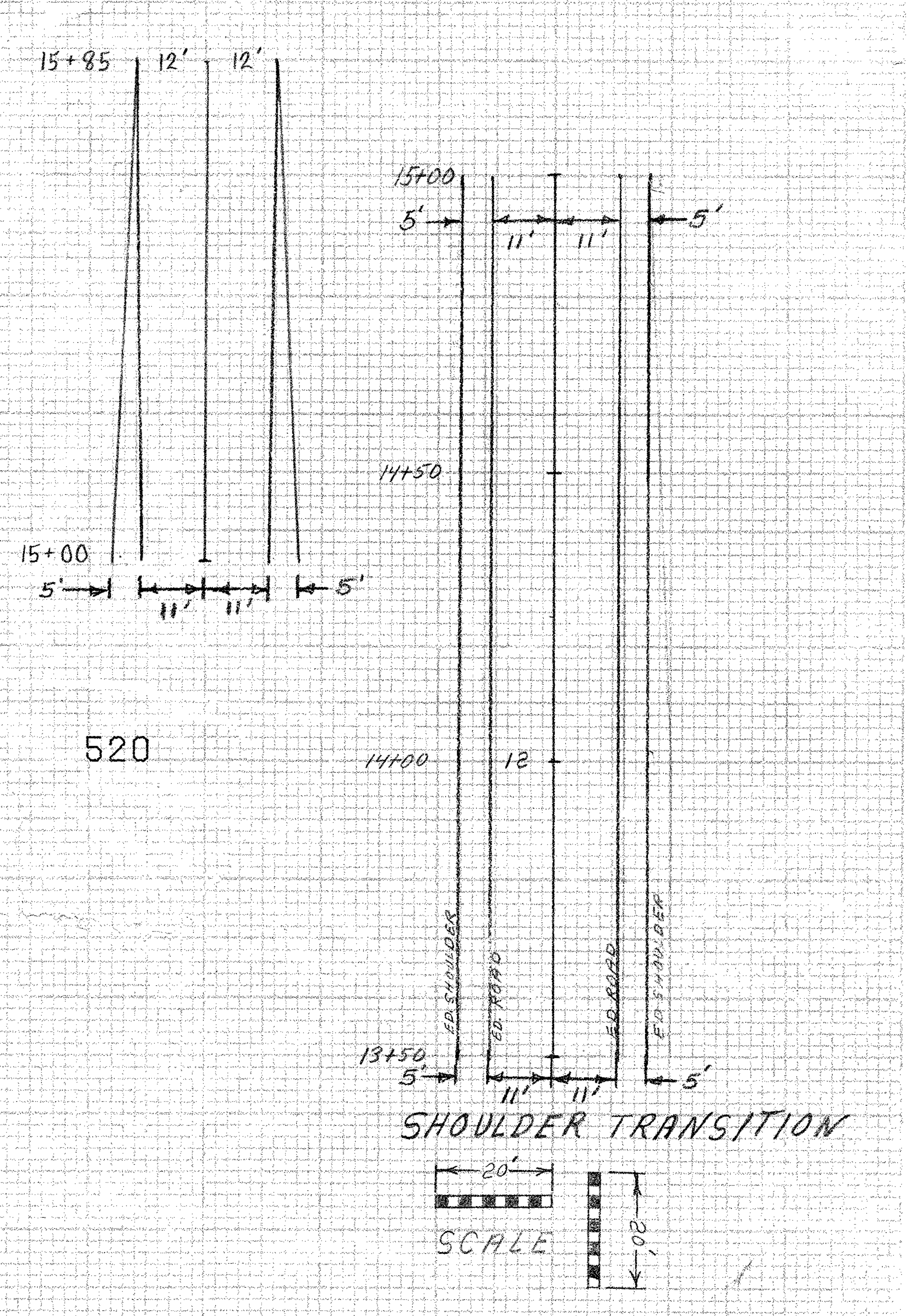
14+85 ~ 15+77 RT.
NEW 18" × 88' RCP CL. III OR CPEP
(SL): REPLACE EXIST. DI @ 15+77 RT.
AND CONNECT TO EXIST. PIPE

510



510

STA. 14+72 RT.
CONSTRUCT (PAVED APRON)



SHOULDER TRANSITION

SCALE

SCALE 10 FEET

FROM STA. 14+68 TO STA. 15+50
PROJECT NAME MORETOWN-MIDDLESEX RTE2
NO. BRS0167(11) PLOTTED 02/14/85
SURVEYED BY NYE JAN 1985
SHEET 243 OF 243 SHEETS