FED. ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.	I 91-1(15)	WAR		114

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT IN THE TOWNS OF WESTMINSTER - ROCKINGHAM

COUNTY OF WINDHAM

PROJECT NO. I 91-1(15)

CONTRACT NO. 4

BEGINNING 2.417 MILES NORTH OF THE WESTMINSTER-ROCKINGHAM TOWN LINE AT STATION 1785+00 AND CONTINUING IN A NORTHERLY DIRECTION 1.117 MILES TO STATION 1844+00

LENGTH OF ROADWAY = 5,90000 FEET = 1.117 MILES
LENGTH OF CONTRACT = 5,90000 FEET = 1.117 MILES

DESIGN DESIGNATION

A.D.T. - 1960 = 2280
A.D.T. - 1975 = 5060
D.H.V. - 1975 = 715
T. - 7 %
D. - 54 %
V. = (70) M.P.H.

SHEET NO. INDEX OF SHEETS

1 TITLE PAGE
2-6 TYPICAL SECTIONS AND DETAILS (3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B, MOD.)
7-8 QUANTITY SHEETS, ITEMS
9-10 QUANTITY SHEETS, DRAINAGE
11-13 GRADE AND EARTHWORK SHEETS
14 EARTHWORK SUMMARY
15-27 PLAN AND PROFILE SHEETS
28 TRAFFIC SIGN LOCATION PLAN
29 TRAFFIC SIGN DESIGN AND CONSTRUCTION DETAILS
30 TRAFFIC SIGN SUMMARY AND GENERAL NOTES
31 DELINEATOR LOCATION PLAN
32 A-61 DRILLING AND BLASTING OF SOLID ROCK
33 B-1 BANKING TABLES
34 B-5 TYPICAL SLOPE GRADING
35 B-6 MUCK EXCAVATION
36 B-15 ENTRANCE AND EXIT TERMINALS
37 B-16 DIVISIONAL ISLAND AND TRIANGULAR ISLAND DETAILS
38 C-1 CURBS
39 D-1 PRECAST R.C.P. DROP INLETS AND CATCH BASINS
40 D-2 HEADWALLS AND UNDERDRAIN
41 D-3 GUTTERS
42 D-4 PLATE PIPE, PIPE ELBOWS, FLUSHING BASINS AND METAL END SECTIONS
43 D-8 REINFORCED CONCRETE DROP INLETS
44 D-10 TOP FOR A DROP INLET
45 D-11 GRATES AND COVERS FOR DROP INLETS
46 D-13 CONCRETE CATCH BASINS
47 E-1 BARRICADES, SIGNS AND LIGHTS (ROADWAY)
48 E-3 REGULATORY SIGNS
49 E-4 ROUTE MARKERS AND AUXILIARY MARKERS
50 E-5 SIGN POST FOOTINGS
51 E-6 REGULATORY, WARNING AND GUIDE SIGNS
52 E-7 STANDARD SIGN PLACEMENT
53 E-8 DELINEATORS
54 E-9 CONSTRUCTION IDENTIFICATION SIGNS
55 F-1 PROPERTY LINE FENCE
56 G-1 STEEL BEAM GUARD RAIL
57 G-3 THREE CABLE GUARD RAIL
58 G-4 MARKER POSTS AND GUIDE POSTS
59 J-1 PROJECT MARKERS AND BOUNDARY MARKERS
60 J-3 MINIMUM PLANTING DISTANCES
61-114 CROSS SECTIONS

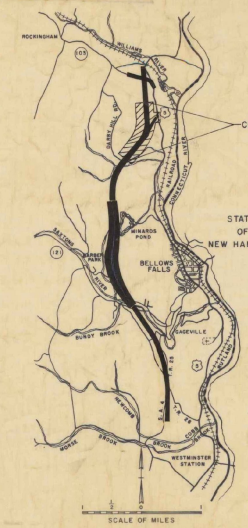
GUARD RAIL	
MARKER POSTS	S. T. GRISWOLD CO., INC.
SIGNS & DELINEATORS	WILLISTON, VT.
PROPERTY LINE FENCE	

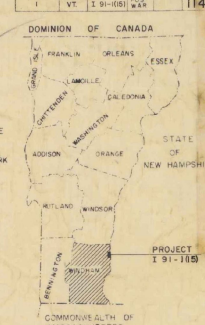
CONTRACTOR: CALEDONIA SAND & GRAVEL CO., INC.
RESIDENT ENGINEER: SANFORD C. BRIGHAM
INSPECTOR: MARK W. REDMOND
RECORD PLANS: MARK W. REDMOND
CONTRACT DATED: 26 MARCH 1962
CONTRACT STARTED: 2 APRIL 1962
CONTRACT COMPLETED: 17 OCT. 63
CONTRACT ACCEPTED: 17 OCT. 63

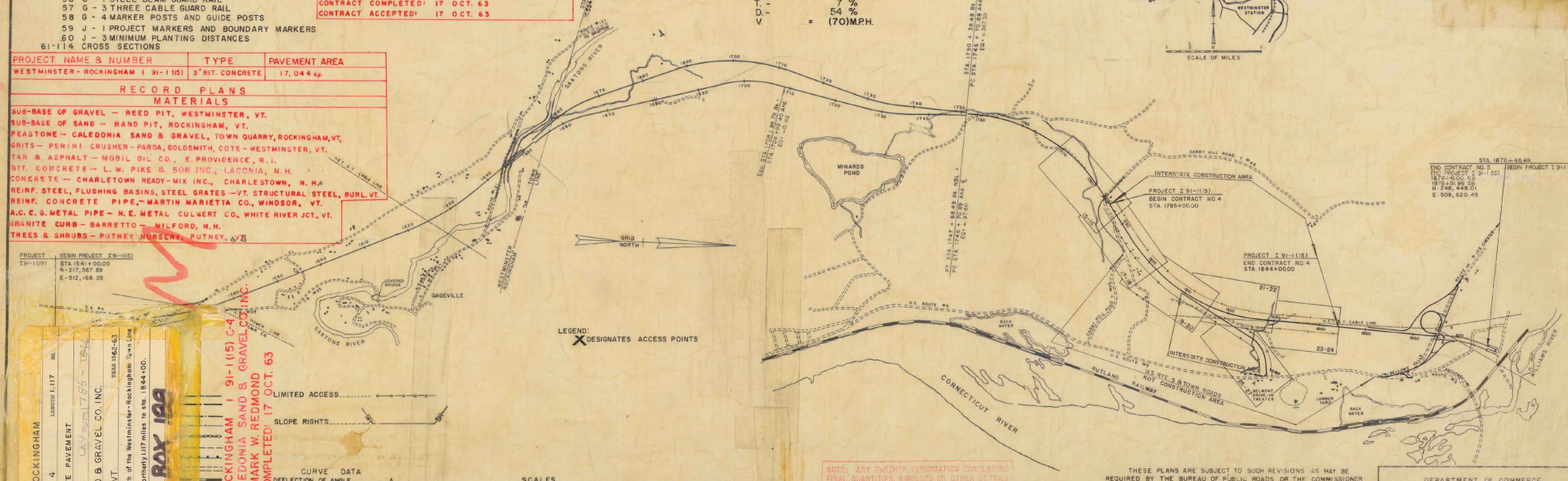
PROJECT NAME & NUMBER	TYPE	PAVEMENT AREA
WESTMINSTER - ROCKINGHAM I 91-1(15)	3" BIT. CONCRETE	17,044 sq.

RECORD PLANS
MATERIALS

SUB-BASE OF GRAVEL — REED PIT, WESTMINSTER, VT.
SUB-BASE OF SAND — RAND PIT, ROCKINGHAM, VT.
PEASTONE — CALEDONIA SAND & GRAVEL, TOWN QUARRY, ROCKINGHAM, VT.
GRITS — PERINI CRUSHER - PARDA, GOLDSMITH, COTE - WESTMINSTER, VT.
TAR & ASPHALT — MOBIL OIL CO., E. PROVIDENCE, R. I.
BIT. CONCRETE — L. M. PIKE & SON INC., LACONIA, N. H.
CONCRETE — CHARLETOWN READY-MIX INC., CHARLESTOWN, N. H.
REINF. STEEL, FLUSHING BASINS, STEEL GRATES — VT. STRUCTURAL STEEL, BURL. VT.
REINF. CONCRETE PIPE, — MARTIN MARIETTA CO., WINDSOR, VT.
A.C.C.G. METAL PIPE — N. E. METAL CULVERT CO, WHITE RIVER JCT., VT.
GRANITE CURB — BARRETTO — MILFORD, N. H.
TREES & SHRUBS — PUTNEY NURSERY, PUTNEY, VT.







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

SCALES	
TITLE	1" = 1000'
TYPICAL	AS NOTED
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
PROFILE VERTICAL	1" = 10'
CROSS-SECTIONS HOR.	1" = 10'
CROSS-SECTIONS VERT.	1" = 10'

NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN EITHER THE FIELD BOOKS OR THE ESTIMATE FILE.

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

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

PREPARED AND RECOMMENDED
WILLIAM H. McFARLAND CONSULTING ENGINEER
STATE OF VERMONT LICENSE NO. 872
DATE July 21, 1960

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
SECONDARY ENGINEER	COUNTY HIGHWAY ENGINEER	BRIDGE ENGINEER	DISTRICT ENGINEER	HIGHWAY ENGINEER	CHIEF ENGINEER
DATE	DATE 4/25/1961	DATE	DATE 4/17/62	DATE 4/25/1961	DATE 4/26/1961

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

PROJECT WESTMINSTER-ROCKINGHAM
NUMBER I 91-1 (15) Cont. 4
TYPE BITUMINOUS CONCRETE PAVEMENT
LENGTH 1.117 MI.
CONTRACTOR CALEDONIA SAND & GRAVEL CO. INC.
ST. JOHNSBURY, VT.
YEAR 1962-63
LOCATION Beginning 2.417 miles north of the Westminster-Rockingham Town Line at sta. 1785+00 and continuing northerly 1.17 miles to sta. 1844+00.

WESTMINSTER-ROCKINGHAM I 91-1(15) C-4
CONTRACTOR - CALEDONIA SAND & GRAVEL CO. INC.
RECORD PLANS: MARK W. REDMOND
CONSTRUCTION COMPLETED: 17 OCT. 63

PROJECT CONTRACT NO. 4 NO. I 91-1(15)
SHEET 1 OF 114 SHEETS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT IN THE TOWNS OF WESTMINSTER - ROCKINGHAM

COUNTY OF WINDHAM

PROJECT NO. I 91-1(15)

CONTRACT NO. 4

BEGINNING 2.417 MILES NORTH OF THE WESTMINSTER-ROCKINGHAM TOWN LINE AT STATION 1785+00 AND CONTINUING IN A NORTHERLY DIRECTION 1.117 MILES TO STATION 1844+00

LENGTH OF ROADWAY = 5,900.00 FEET = 1.117 MILES
LENGTH OF CONTRACT = 5,900.00 FEET = 1.117 MILES

DESIGN DESIGNATION
ADT - 1960 = 2280
ADT - 1975 = 5060
DHV - 1975 = 715
T = 7 %
D = 54 %
V = (70) M.P.H.

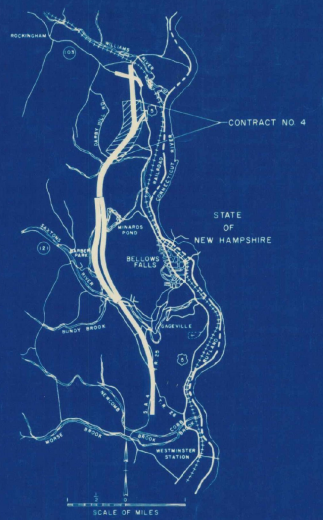
FED. ROAD REGION NO.	STATE	PROJECT NO.	TOTAL SHEETS
1	VT	I 91-1(15) WAV	114

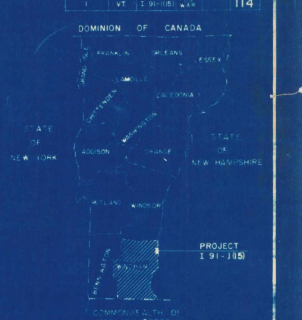
SHEET NO. INDEX OF SHEETS

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58 G-4 MARKER POSTS AND GUIDE POSTS
59 J-1 PROJECT MARKERS AND BOUNDARY MARKERS
60 J-3 MINIMUM PLANTING DISTANCES
61-114 CROSS SECTIONS

Date March 26, 1962
Caledonia Sand & Gravel Co. Inc.
Chesterfield West
Keene
Contractor
Approved: J. H. Stevens
Commissioner of Highways
By Order of Commissioner of Highways

VERMONT CONTRACT PLANS MAR 29 1962 SIGNED DEPARTMENT OF HIGHWAYS







LEGEND:
X DESIGNATES ACCESS POINTS

CONVENTIONAL SIGNS

R.O.W.
COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE
LIMITED ACCESS
SLOPE RIGHTS

CURVE DATA

DEFLECTION OF ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	PI
POINT OF CURVE	PC
POINT OF TANGENT	PT
POINT ON TANGENT	POT
POINT ON SUB-TANGENT	POST

SCALES

TITLE	1" = 1000
TYPICAL	AS NOTED
PLAN	1" = 50
PROFILE HORIZONTAL	1" = 50
PROFILE VERTICAL	1" = 10
CROSS-SECTIONS HOR.	1" = 10
CROSS-SECTIONS VERT.	1" = 10

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

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

PREPARED AND RECOMMENDED
WILLIAM H. McFARLAND CONSULTING ENGINEER
STATE OF VERMONT LICENSE NO. 472
DATE July 21, 1960

APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
SECONDARY ENGINEER	CONSTRUCTION ENGINEER	BRIDGE ENGINEER	DISTRICT ENGINEER	HIGHWAY ENGINEER
DATE	DATE 4/5/1961	DATE	DATE 1/17/62	DATE 4/05/1961

APPROVED — CHIEF ENGINEER
DATE 4/26/1961
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

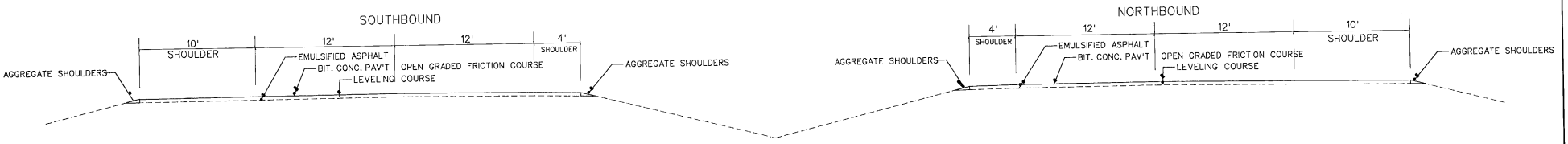
PROJECT NO. I 91-1(15)
CONTRACT NO. 4
SHEET 1 OF 114 SHEETS

V275

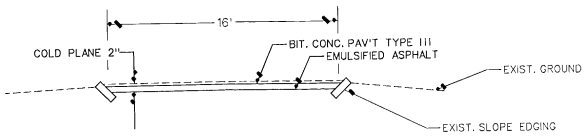
PAVEMENT SECTIONS

1½" BITUMINOUS CONCRETE PAVEMENT, OPEN GRADED FRICTION COURSE
½" BITUMINOUS CONCRETE PAVEMENT, LEVELING (INCLUDING SHOULDERS)
EMULSIFIED ASPHALT AT .015 GAL/SY
AGGREGATE SHOULDERS
2" RAMPS - COLD PLANE
1½" RAMPS - BIT. CONC. PAVEMENT, TYPE III

1½" BITUMINOUS CONCRETE PAVEMENT, TYPE III - U-TURNS, REST AREAS, & WELCOME CENTER

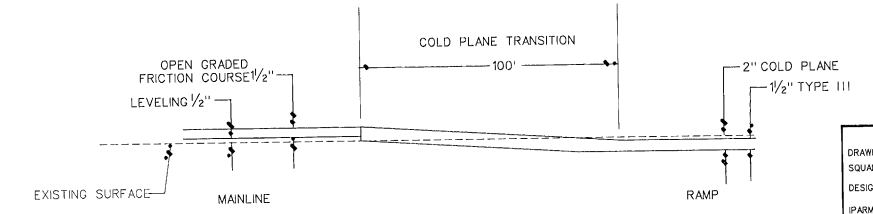


MM 0.00 - MM 7.44



INTERCHANGE RAMPS

RAMP TO MAINLINE TRANSITION
NOT TO SCALE



DRAWN BY SQDA DATE 7-7-93
SQUAD LEADER SHERIDAN
DESIGN FILE NO. /sqda/92a112/da112.dgn
IPARM 92A112TYP DATE PLOTTED 04-NOV-1993
PROJ. NAME GUILFORD-VERNON-BRATTLEBORO
PROJ. NO. IM 091-1(27)
SHEET OF SHEETS

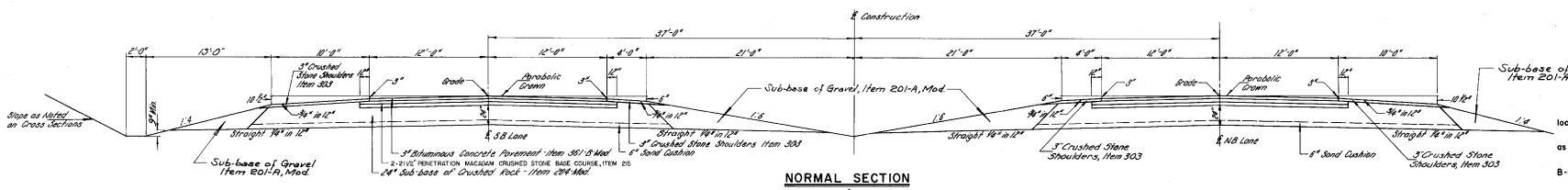
8294,11343

TYPICAL SECTIONS

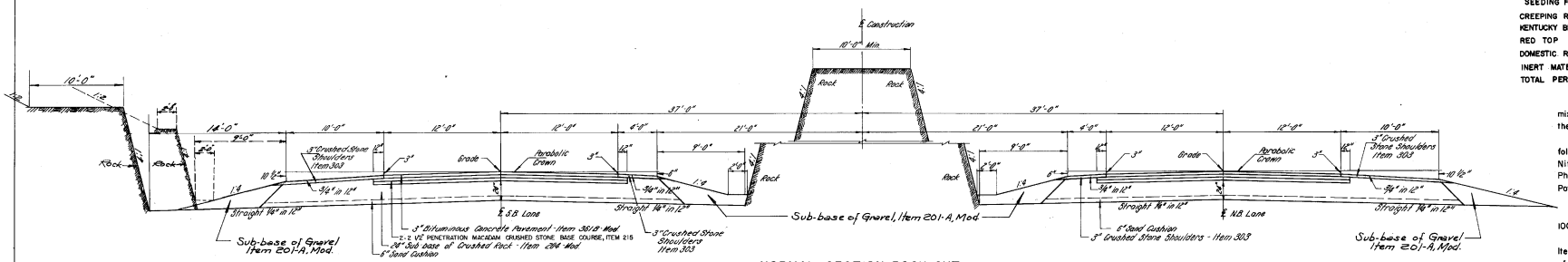
3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD. (± 1/4")
2-2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 (± 1/2" FOR TOTAL THICKNESS)
24" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD. (± 1")
3" CRUSHED STONE SHOULDERS, ITEM 303

DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL, PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD., ON CRUSHED STONE SHOULDERS

PERMISSABLE TOLERANCES IN PARENTHESIS APPLY TO THICKNESS ONLY.

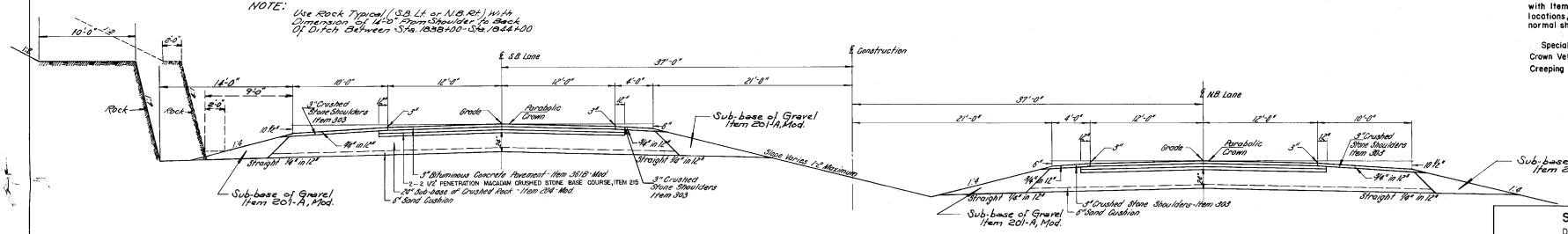


NORMAL SECTION WITH 50' MEDIAN



NORMAL SECTION ROCK CUT

NOTE: Use Rock Typical (S.B. Lt. or N.B. Rt.) With Dimension of 14'-0" From Shoulder to Back Of Ditch Between Sta. 1838+00 - Sta. 1844+00



NORMAL SECTION DIFFERENT GRADES

GENERAL NOTES

Widen Shoulders two (2) feet at guard rail locations.

Steel Marker Posts, Item 548-D, to be placed as directed by the Engineer.

For rounding of slopes, see Roadway Standard B-5

Minimum width at top of rock cut in Median shall be ten (10) feet.

Mulch - Item 622, to be placed on all slopes at 1 1/2 Tons/Acre.

SEEDING FORMULA:	% WT	LBS/ACRE	%GERM	% PURITY
CREEPING RED FESCUE	27.3	15	82	97
KENTUCKY BLUE GRASS	27.3	15	77	80
RED TOP	27.3	15	90	92
DOMESTIC RYE GRASS	11.0	6	90	98
INERT MATERIAL	7.1	4		
TOTAL PER ACRE	100.0	55		

Winter Rye, Item 610, to be added to the above mixture at the rate of 50 Lb./Acre if directed by the Engineer.

The commercial fertilizer shall be mixed as follows:

Nitrogen	10	
Phosphorus	10	Rate of Application - 800 Lb./Acre
Potash	10	

Fertilizer shall be delivered in bags not to exceed 100 lbs. ea.

Drilling and Blasting of Solid Rock Subgrade, Item 114 Mod. Rock shall be shattered to a depth of four (4) feet below subgrade, see Roadway Standard A-61.

Shoulders are to be treated the entire width with Item 315 Mod. (Exception: At guard rail locations, treatment shall extend only to the normal shoulder width.)

Special Grass Seed:	Lb/Acre
Crown Vetch (Coronilla Varia)	20
Creeping Red Fescue	30
Total	50

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

TYPICAL SECTIONS

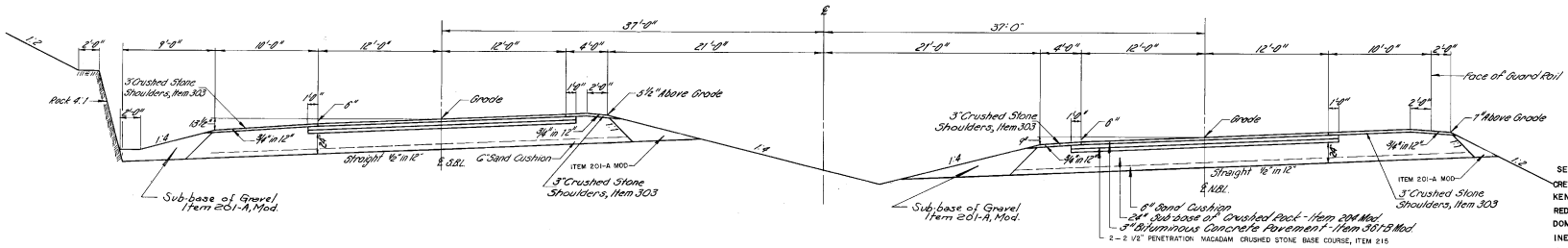
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 3/16" = 1'-0"
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(15)
CONTRACT NO. 4

TYPICAL SECTIONS

3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD. (± 1/4")
2- 2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 (± 1/2" FOR TOTAL THICKNESS)
24" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD. (± 1")
3" CRUSHED STONE SHOULDERS, ITEM 303.
SUB-BASE OF GRAVEL, ITEM 201-A MOD.
DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL, PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD., ON CRUSHED STONE SHOULDERS.

PERMISSABLE TOLERANCES IN PARENTHESIS APPLY TO THICKNESS ONLY.



SUPERELEVATED SECTION

1/2" Per 12"
N.B.L. 1'-6" Below S.B.L.

GENERAL NOTES

Widen Shoulders two (2) feet at guard rail locations.

Steel Marker Posts, Item 548-D, to be placed as directed by the Engineer.

For rounding of slopes, see Roadway Standard B-5.

Minimum width at top of rock cut in Median shall be ten (10) feet.

Mulch - Item 622 to be placed on all slopes at 1 1/2 Tons/Acre.

SEEDING FORMULA:	% WT.	LBS/ACRE	% GERM	% PURITY
CREEPING RED FESCUE	27.3	15	92	97
KENTUCKY BLUE GRASS	27.3	15	77	80
RED TOP	27.3	15	90	92
DOMESTIC RYE GRASS	11.0	6	90	98
INERT MATERIAL	7.1	4		
TOTAL PER ACRE	100.0	55		

Winter Rye, Item 610, to be added to the above mixture at the rate of 50 Lb./Acre if directed by the Engineer.

The commercial fertilizer shall be mixed as follows:

Nitrogen	10	
Phosphorus	10	Rate of Application 800 Lb./Acre
Potash	10	

Fertilizer shall be delivered in bags not to exceed 100 lbs. ea.

Drilling and Blasting of Solid Rock Subgrade, Item 114 Mod. Rock shall be shattered to a depth of four (4) feet below subgrade, see Roadway Standard A-61.

Shoulders are to be treated the entire width with Item 315 Mod. (Exception: At guard rail locations, treatment shall extend only to the normal shoulder width.)

Special Grass Seed:	Lb./Acre
Crown Vetch (Coronilla Varia)	20
Creeping Red Fescue	30
Total	50

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

TYPICAL SECTIONS

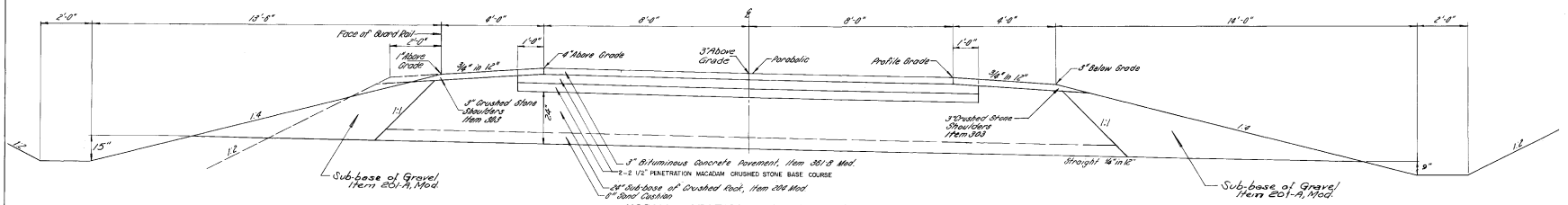
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 3/16"=1'-0"
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(15) SHEET 3 OF 114
CONTRACT NO. 4

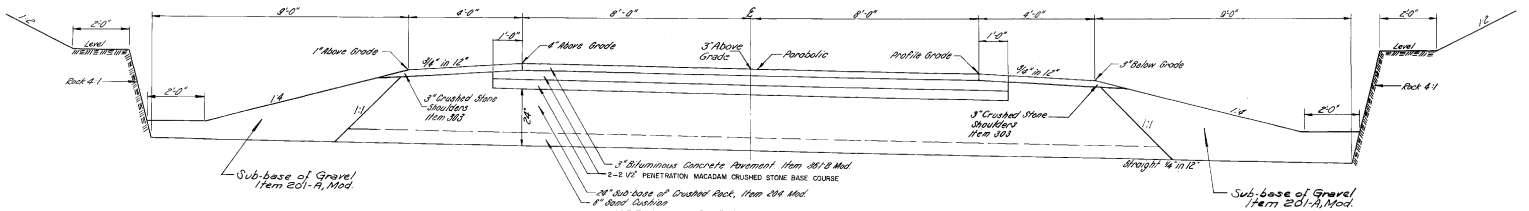
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3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-B MOD. (± 1/4")
2-2 1/2" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215 (± 1/2" FOR TOTAL THICKNESS)
24" SUB-BASE OF CRUSHED ROCK, ITEM 204 MOD. (± 1")
3" CRUSHED STONE SHOULDERS, ITEM 303 WITH DOUBLE TACK COAT OF
DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL, PRIME COAT
OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315 MOD.

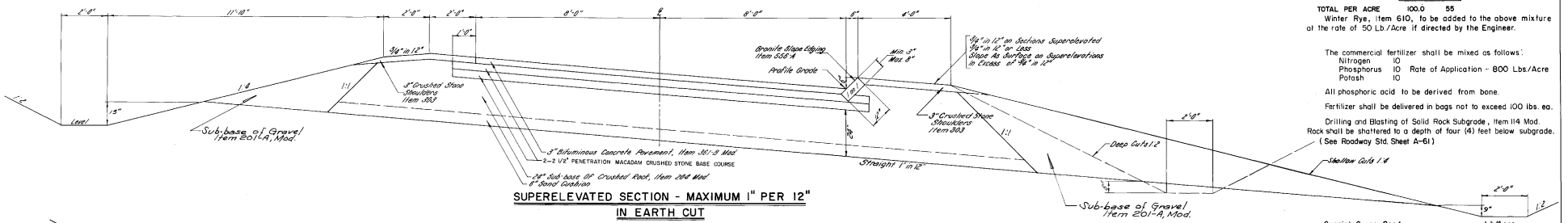
PERMISSABLE TOLERANCES IN PARENTHESIS
APPLY TO THICKNESS ONLY



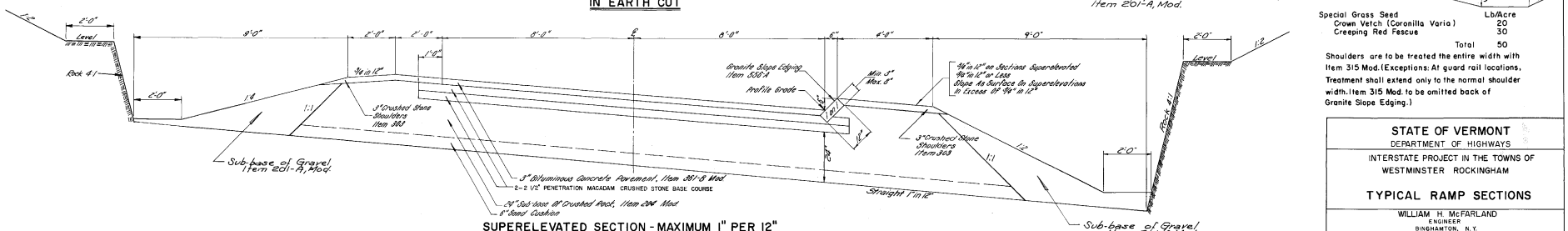
NORMAL SECTION IN EARTH CUT



NORMAL SECTION IN SOLID ROCK



SUPERELEVATED SECTION - MAXIMUM 1" PER 12"
IN EARTH CUT



SUPERELEVATED SECTION - MAXIMUM 1" PER 12"
IN SOLID ROCK

GENERAL NOTES

Widen Shoulders two (2) feet at guard rail locations.

Steel Marker Posts, Item 548-D, to be placed as directed by the Engineer.

For rounding of slopes, see Roadway Standard B-5.

Minimum width at top of rock cut in Median Shall be ten (10) feet.

Mulch - Item 622, to be placed on all slopes at 1 1/2 Tons/Acre.

Seeding Formula:

	% WT	LBS/ACRE	% GERM	% PURITY
CREEPING RED FESCUE	27.3	15	92	97
KENTUCKY BLUE GRASS	27.3	15	77	80
RED TOP	27.3	15	90	92
DOMESTIC RYE GRASS	11.0	6	90	98
INERT MATERIAL	7.1	4		
TOTAL PER ACRE	100.0	55		

Winter Rye, Item 610, to be added to the above mixture at the rate of 50 Lb./Acre if directed by the Engineer.

The commercial fertilizer shall be mixed as follows:

Nitrogen	10	Rate of Application - 800 Lbs./Acre
Phosphorus	10	
Potash	10	

All phosphoric acid to be derived from bone.

Fertilizer shall be delivered in bags not to exceed 100 lbs. ea.

Drilling and Blasting of Solid Rock Subgrade, Item 114 Mod. Rock shall be shattered to a depth of four (4) feet below subgrade. (See Roadway Std. Sheet A-61)

Special Grass Seed	Lb/Acre
Crown Vetch (Coronilla Varia)	20
Creeping Red Fescue	30
Total	50

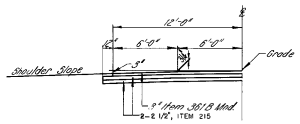
Shoulders are to be treated the entire width with Item 315 Mod. (Exceptions: At guard rail locations, Treatment shall extend only to the normal shoulder width. Item 315 Mod. to be omitted back of Granite Slope Edging.)

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

TYPICAL RAMP SECTIONS

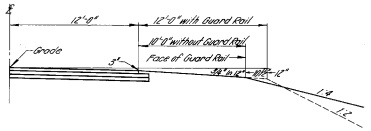
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 1/2"=1'-0"
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(10)
CONTRACT NO. 4



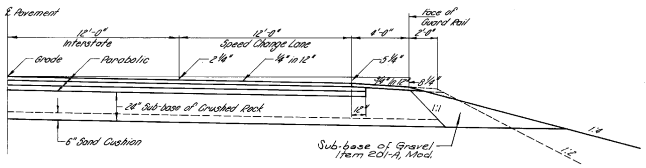
DETAIL OF PARABOLIC CROWN SHOWING QUARTER POINT

SCALE: 3/16" = 1'-0"



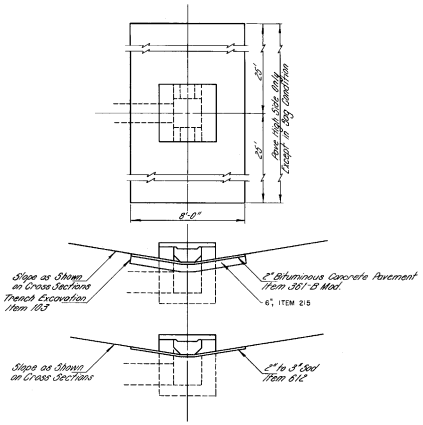
DETAIL SHOWING WIDENING FOR GUARD RAIL

SCALE: 3/16" = 1'-0"



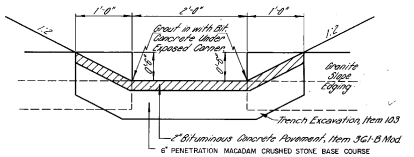
TYPICAL SECTION AT SPEED CHANGE LANE

SCALE: 1/4" = 1'-0"



PAVED & SODDED MEDIAN INLETS

SCALE: 1/4" = 1'-0"



DETAIL OF CURB DRAINS

SCALE: 1" = 1'-0"

SUPERELEVATION TRANSITION TABLES INTERCHANGE RAMP 'A'

R.O. DIST.	FULL SUPER	STATION	RATE	REMARKS
280'		3+65	-0.0417'/ft.	Interstate Superelevation
		4+00	-0.0308'/ft.	
		4+30	-0.0151'/ft.	
		5+00	+0.0005'/ft.	
		5+50	+0.0161'/ft.	
		5+65	+0.0208'/ft.	Normal Crown
140'		17+72.44	+0.0208'/ft.	Normal Crown
		18+00	+0.0290'/ft.	
		18+42.44	+0.0417'/ft.	P.C. 4.0%
		18+50	+0.0439'/ft.	
		19+00	+0.0588'/ft.	
		19+12.44	+0.0625'/ft.	Full Super
140'		23+32.46	+0.0625'/ft.	Full Super
		23+58	+0.0808'/ft.	
		24+00	+0.0943'/ft.	
		24+08	+0.0990'/ft.	
		24+22.45 Bk.	+0.0417'/ft.	P.T. 3.0%
		24+60.00 Ahd.		
		25+00	+0.0315'/ft.	
		25+38	+0.0208'/ft.	Normal Crown
LEG 'A'	3/4"/1'-0"	0+75	+0.0543'/ft.	
		1+00	+0.0479'/ft.	
		1+25	+0.0415'/ft.	
		1+50	+0.0351'/ft.	
		1+70	+0.0300'/ft.	

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
TYPICAL SECTIONS, DETAILS & SUPERELEVATION TRANSITION TABLE
(RAMP 'A')

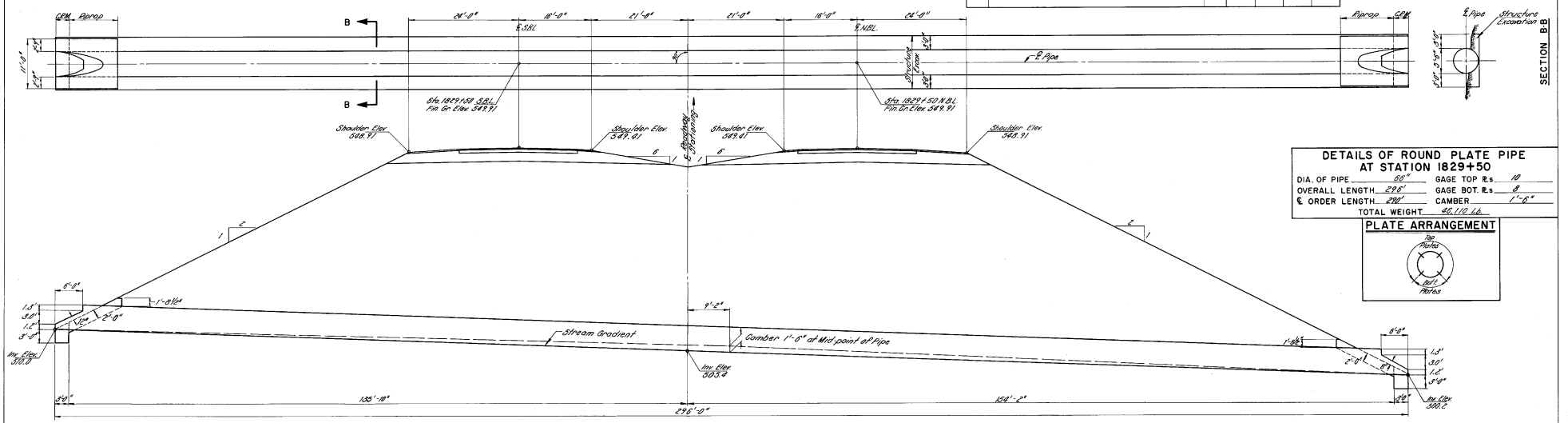
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE AS SHOWN
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 89-1(15)
CONTRACT NO. 4

SHEET 5 OF 114

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	NET	O'RUN	TOTAL	FINAL
107	Structure Excavation	C.Y.	75	5	80	
411	Cement Rubble Masonry	C.Y.	10	1	11	
429.A	Corrugated Galvanized Metal Plate Pipe	L.S.	L.S.	—	L.S.	
526	Riprap For Bank Protection, Mod. For Culvert Ends	C.Y.	15	1	16	



ELEVATION ℄ PLATE PIPE

DETAILS OF ROUND PLATE PIPE AT STATION 1829+50

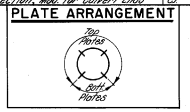
DIA. OF PIPE	86"	GAGE TOP R.s.	10
OVERALL LENGTH	298'	GAGE BOT. R.s.	8
℄ ORDER LENGTH	298'	CAMBER	1'-6"
TOTAL WEIGHT	46,110 Lb.		

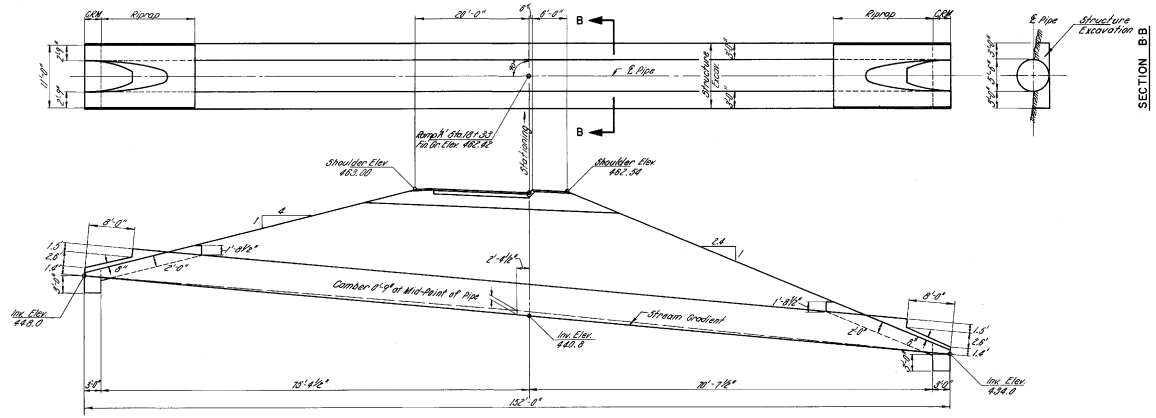
PLATE ARRANGEMENT

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	NET	O'RUN	TOTAL	FINAL
107	Structure Excavation	C.Y.	60	5	65	
411	Cement Rubble Masonry	C.Y.	10	1	11	
429.A	Corrugated Galvanized Metal Plate Pipe	L.S.	L.S.	—	L.S.	
526	Riprap For Bank Protection, Mod. For Culvert Ends	C.Y.	22	1	23	

PLATE ARRANGEMENT





ELEVATION ℄ PLATE PIPE

DETAILS OF ROUND PLATE PIPE AT RAMP 'A' STATION 18+33

DIA. OF PIPE	86"	GAGE TOP R.s.	12
OVERALL LENGTH	132'	GAGE BOT. R.s.	10
℄ ORDER LENGTH	144'	CAMBER	0'-9"
TOTAL WEIGHT	15,432 LB.		

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

PLATE PIPE DETAILS

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY		CHECKED BY	SCALE 1" = 10'
DRAWN BY R.J.H.		IN CHARGE	DATE
PROJECT NO. I 91-1(15)			
CONTRACT NO. 4			SHEET 6 OF 114

QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

WESTMINSTER-ROCKINGHAM CONTRACT #6 PROJECT NO. 191-1(15)

SUMMARY SHEET NO. ___ OF ___ 19___

APPROXIMATE SUMMARY OF QUANTITIES

R. O. W.	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
		50,500	50,500	C.Y.	Common Excavation	101-A
		121,700	121,700	C.Y.	Solid Rock Excavation	101-B
		473,700	473,700	C.Y.	Borrow	102
		7,500	7,500	C.Y.	Granular Borrow	102-A
		5,000	5,000	C.Y.	Trench Excavation of Earth	103-A
		1,700	1,700	C.Y.	Trench Excavation of Rock	103-B
		1	1	L.S.	Clearing and Grubbing (Mod.)(34 A.± Indiv. trees)	105
		90,500	90,500	S.Y.	Fine Grading, Subgrade	109
		220	220	C.Y.	Channel Excavation of Earth(Incl.14 cy overrun	106-A
		100	100	C.Y.	Channel Excavation of Rock (Est.)	106-B
		150	150	C.Y.	Structure Excavation(Incl. 13 cy overrun)	107
		25	25	DAY	Roadway Patrol Maintenance (Est.)	108
		500	500	M/Gal.	Dust Control (Est.)	111
		20,600	20,600	S.Y.	Drilling and Blasting of Solid Rock Subgrade (Incl. 976 sy overrun) (Modified)	114
		1,000	1,000	C.Y.	Muck Excavation (Est.)	116
		30	30	HOUR	Bulldozer Rental (Est.)	119
		9,800	9,600	C.Y.	Sub-base of Gravel(Modified)	204-A
		4,700	4,700	C.Y.	Sub-base of Sand (Mod.)(Est.)	209
		45,700	45,700	C.Y.	Sub-base of Crushed Rock (Modified)	209
		5,800	5,800	C.Y.	Penetration Macadam Crushed Stone Base Course	215
		35,750	35,750	CY/Ht	Gravel Overhaul (Mod.) (Est. 2.5 miles)	211
		50	50	C.Y.	Gravel Backfill (Incl. 17 cy overrun)	222
		2,860	2,860	C.Y.	Stripping of Gravel Pits (Est.)	223
		2,100	2,100	C.Y.	Crushed Stone Shoulders	303
		20,600	20,600	GAL.	Double Tack Coat of Bituminous Material with Pea Stone and Stone Grits Seal, Prime Coat of Refined Tar and Double Seal Coat of Cutback Asphalt (Incl.1,900 gal.overrun)(Modified)	315
		825	825	GAL.	Cutback Asphalt (Incl. 78 gal.overrun)	322
		137,000	137,000	GAL.	Asphalt Cement	328
		6,900	6,900	TON	Bituminous Concrete Pavement (Modified)	361-B
		32	32	HOUR	Proof Rolling (Mod.)	365
		42	42	C.Y.	Concrete Class B,Modified(Incl. 2.1 cy cy'n)	901-B
		8,500	8,500	LB.	Reinforcing Steel (Incl.220 lb.overrun)	902
		53	53	C.Y.	Cement Rubble Masonry (Incl. 2.8 cy overrun)	911
		268	268	L.F.	18" Reinforced Concrete Pipe Class III(Mod.) (Incl.20 lf overrun)	421-H
		156	156	L.F.	24" Reinforced Concrete Pipe Class III Mod. (Incl. 12 lf overrun)	421-K
		172	172	L.F.	30" Reinforced Concrete Pipe Class III Mod. (Incl. 16 lf overrun)	421-L
		84	84	L.F.	36" Reinforced Concrete Pipe Class III Mod. (Incl. 8 lf overrun)	421-M
		12	12	L.F.	15" Special Asphalt Coated Corrugated Galvanized Metal Pipe Elbow	422-F
		36	36	L.F.	18" Special Asphalt Coated Corrugated Galvanized Metal Pipe Elbow	422-H
		12	12	L.F.	24" Special Asphalt Coated Corrugated Galvanized Metal Pipe Elbow	422-K
		24	24	L.F.	30" Special Asphalt Coated Corrugated Galvanized Metal Pipe Elbow	422-L
		100	100	L.F.	12" Asph.Ctd.Corr.Galv.Met.Pipe (Est.)	424-D
		30	30	L.F.	15" Asphalt Coated Corrugated Galvanized Metal Pipe (Incl. 2 lf overrun)	424-F
		376	376	L.F.	18" Asphalt Coated Corrugated Galvanized Metal Pipe (Incl. 28 lf overrun)	424-H
		284	284	L.F.	24" Asphalt Coated Corrugated Galvanized Metal Pipe (Incl.22 lf overrun)	424-K
		296	296	L.F.	24" Asphalt Coated Corrugated Galvanized Metal Pipe 312 ga.(Incl. 24 lf overrun)	424-K
		628	628	L.F.	30" Asphalt Coated Corrugated Galvanized Metal Pipe (Incl. 48 lf overrun)	424-L
		180	180	L.F.	30" Asphalt Coated Corrugated Galvanized Metal Pipe 312 ga. (Incl. 18 lf overrun)	424-L
		96	96	L.F.	36" Asphalt Coated Corrugated Galvanized Metal Pipe (Incl. 8 lf overrun)	424-M
		250	250	L.F.	Relaying Pipe Culverts (Est.)	426
		1	1	L.S.	66" Corrugated Galvanized Metal Plate Pipe 310 ga. with 44 ga. Bottom plates at Station 1829+90 (85,110 lbs.)	428-A
		1	1	L.S.	66" Corrugated Galvanized Metal Plate Pipe 312 ga. with 310 ga. Bottom Plates at Ramp A Station 46+37 (18,932 lbs.)	429-A
		1	1	EACH	18" Metal End Sections for Corrugated Galvanized Metal Pipe (Est.)	430-1-H
		2	2	EACH	24" Metal End Sections for Corrugated Galvanized Metal Pipe (Est.)	430-1-K

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
32,850	C.Y.	Roadway (Incl. 2,186 cy overrun)
17,650	C.Y.	Ramp A (Incl. 1,162 cy overrun)
50,500	C.Y.	Total
		SOLID ROCK EXCAVATION
116,400	C.Y.	Roadway (Incl. 12,047 cy overrun)
5,300	C.Y.	5% Overbreakage
121,700	C.Y.	Total
		BORROW
473,700	C.Y.	Roadway (Incl. 56,216 cy overrun)
473,700	C.Y.	Total
		GRANULAR BORROW
6,300	C.Y.	Near Darby Hill Bridge
1,200	C.Y.	Estimated
7,500	C.Y.	Total
		TRENCH EXCAVATION OF EARTH
1,700	C.Y.	Pipe Culverts (Incl. 292 cy overrun)
600	C.Y.	Underdrain Designed (Incl. 58 cy overrun)
620	C.Y.	Underdrain, Estimated
150	C.Y.	Water Pipe Sleeves, Est.
55	C.Y.	Paved Median Inlets (Incl. 5 cy overrun)
1,745	C.Y.	Special Ditches (Incl. 154 cy overrun)
5,000	C.Y.	Total
		TRENCH EXCAVATION OF ROCK
200	C.Y.	Pipe Culverts (Incl. 28 cy overrun)
380	C.Y.	Underdrain Designed (Incl. 28 cy overrun)
200	C.Y.	Underdrain Estimated
50	C.Y.	Water Pipe Sleeves, Est.
15	C.Y.	Paved Median Inlets (Incl. 5 cy overrun)
705	C.Y.	Special Ditches (Incl. 59 cy overrun)
1,700	C.Y.	Total
		FINE GRADING SUBGRADE
78,000	S.Y.	Roadway (Incl. 4,580 sy overrun)
12,150	S.Y.	Ramp A (Incl. 296 sy overrun)
270	S.Y.	Paved Median Inlets (Incl. 6 sy overrun)
20	S.Y.	Curb Drains (Incl.1 sy overrun)
90,500	S.Y.	Total
		SUB-BASE OF GRAVEL, MODIFIED
8,270	C.Y.	Roadway (Incl. 967 cy overrun)
1,320	C.Y.	Ramp A (Incl. 68 cy overrun)
10	C.Y.	Driven (Est.)
9,600	C.Y.	Total
		SUB-BASE OF CRUSHED ROCK
40,100	C.Y.	Roadway (Incl. 1858 cy overrun)
5,600	C.Y.	Ramp A (Incl. 246 cy overrun)
45,700	C.Y.	Total

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		PENETRATION MACADAM CRUSHED STONE BASE COURSE
5,000	C.Y.	Roadway (Incl. 288 cy overrun)
745	C.Y.	Ramp A (Incl. 56 cy overrun)
50	C.Y.	Paved Median Inlets (Incl. 5 cy overrun)
5	C.Y.	Curb Drains (Incl. 1 cy overrun)
5,800	C.Y.	Total
		CRUSHED STONE SHOULDERS
1,830	C.Y.	Roadway (Incl. 95 cy overrun)
270	C.Y.	Ramp A (Incl. 24 cy overrun)
2,100	C.Y.	Total
		BITUMINOUS CONCRETE PAVEMENT,MODIFIED
5,583	TON	Roadway (Incl. 270 tons overrun)
832	TON	Ramp A (Incl. 40 tons overrun)
32	TON	Paved Median Inlets (Incl. 2 tons overrun)
9	TON	Curb Drains (Incl. 1 ton overrun)
6,900	TON	Total
		ASPHALT CEMENT
119,325	GAL.	Roadway (Incl. 17,656 gal.overrun)
17,675	GAL.	Ramp A (Incl. 2540 gal.overrun)
137,000	GAL.	Total
		PLANTING TREES,SHRUBS & VINES,MODIFIED
65	EACH	Norway Spruce (Picea Abies) Sta. 1788+00-1800+50 Rt. (At toe of Slope)
		GENERAL NOTES
1.		Evergreen trees should be 2' to 3' in height and must have dormant buds and secondary needles.
2.		All plant material to be graded according to American Standards for Nursery Stock.
3.		Norway Spruce to be planted 4' apart in single row.
		(Special Grass) SEEDING Item 611 (Stones)
		Crown Vetch (Coronilla Varia) 20 lbs./A
		Creeping Red Fescue 30 lbs./A
		50 lbs./A
		Sta. 1785+00 - 1796+50 RB St.

TYPE OF CONSTRUCTION — BITUMINOUS CONCRETE PAVEMENT Item 361-B, Mod.

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS 2 at 24'	16'	Variable	EQUATIONS +	EQUATIONS −	REMARKS
1785+00	1844+00	5,900.00					
RAMP A							
0+00	5+65			565.00			
5+65	25+65		1956.46			43.54	
25+65	27+12		147.00				
LEG A							
0+00	0+73			73.00			
0+73	1+70		97.00				
1+70	2+36			66.00			
TOTALS		5,900.00	2,200.46	704.00			

LENGTH OF PROJECT

STATIONS		FEET	MILES	REMARKS
1785+00	1844+00	5,900.00	1.117	
TOTALS		5,900.00	1.117	

WESTMINSTER - ROCKINGHAM CONTRACT #6

No. 191-1(15) Filed

Sheet 7 of 14 Sheets

QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

WESTMINSTER - ROCKINGHAM PROJECT NO. I 91-1(15)

CONTRACT #4

SUMMARY SHEET NO. ___ OF ___ 19___

APPROXIMATE SUMMARY OF QUANTITIES

R. O. W.	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
		300	300	L.F.	Sleeves for Water Pipes (Est.)	931
		300	300	L.F.	Removing & Relaying Water Pipe (Est.)	935
		110	110	C.Y.	Stone Fill for Slope Protection (Incl. 11 cy overrun)	522
		90	90	C.Y.	Riprap for Bank Protection, Modified for Culvert Ends (Incl.3 cy overrun)	526
		2,500	2,500	L.F.	8" Perforated Asphalt Coated Corrugated Galvanized Metal Underdrain (Incl.1152 ov.) (Modified)	531-A
		1	1	EACH	Cast Iron Pipe Underdrain Flushing Basins	532
		1	1	EACH	Concrete Catch Basin or Manhole with Steel Grate or Cover (Est.)	535-B
		3	3	EACH	Precast Reinforced Concrete Pipe Drop Inlet with Cover (Est.)	537-E
		3	3	EACH	Precast Reinforced Concrete Pipe Catch Basin with Cover (Est.)	537-F
		2	2	EACH	Steel Drop Inlet Grates (Incl. 1 ea.overrun)	539-B
		50	50	L.F.	Plank Guard Rail with Preservative Treatment (Est.)	541-A
		6,384	6,384	L.F.	Three Cable Guard Rail with Steel Posts	543
		34	34	EACH	Anchors for Three Cable Guard Rail with Steel Posts	546
		100	100	L.F.	Standard Steel Beam Guard Rail with Steel Posts (Est.)	547-A
		50	50	EACH	Steel Marker Posts (Incl. 1 each overrun)	546-D
		110	110	L.F.	Removal and Disposal of Present Guard Rail (Incl. 4 lf overrun)	550
		10	10	C.Y.	Plain Cement Concrete Gutter (Est.)	551
		275	275	S.Y.	Bituminous Grouted Stone Gutter(26 sy ov.)	553
		20	20	TON	Bituminous Concrete Curb (Est.)(Type I)	555
		1,200	1,200	L.F.	Granite Slope Edging (Incl. 11 lf overrun)	556-A
		1,000	1,000	L.F.	Treated Timber Curb (Est.)	558
		25	25	EACH	Boundary Markers (Est.)	567
		175	175	S.F.	Reflectorized High Density Type Overlaid Plywood Traffic Signs (Incl. 7 sf overrun)	575
		500	500	S.F.	Reflectorized Extruded Aluminum Panel Traffic Signs (Incl. 19 sf overrun)	576
		100	100	S.F.	Reflectorized Flat Sheet Aluminum Traffic Signs (Incl. 6 sf overrun)	577
		95	95	EACH	Delineators (Incl. 3 each overrun)	580
		1,700	1,700	L.F.	Property Line Fence with Steel Posts (Mod.) (Incl. 50 lf overrun)	583-B
		1	1	L.S.	Demolition & Removal of Building No.1 A Sta. 1786+10 Lt.	566
		1	1	L.S.	Demolition & Removal of Building No.1 B Sta. 1786+70 Lt.	566
		1	1	L.S.	Demolition & Removal of Building No.2 Sta. 1780+20 Rt.	566
		1	1	L.S.	Demolition & Removal of Building No. 3 Sta. 1781+70 Rt.	566
		1	1	L.S.	Demolition & Removal of Building No. 4A Sta. 1792+95 Rt.	566
		1	1	L.S.	Demolition & Removal of Building No. 4B Sta. 1793+55 Rt.	566
		1	1	L.S.	Demolition & Removal of Building No. 5A Sta. 1795+65 Rt.	566
		1	1	L.S.	Demolition & Removal of Building No. 5B Sta. 1797+70 Rt.	566
		250	250	L.F.	3/4" Seamless Copper Water Tube (Est.)	598
		19	19	ACRES	Clearing and Trimming (Incl. 3 Acres ov'rn)	661
		4,480	4,480	LB.	Winter Rye (Est.)	610
		1,905	1,905	LB.	Seeding (Incl. 147 lb.overrun)	611
		150	150	S.Y.	Sodding (Est.)	612
		10,000	10,000	LB.	Commercial Fertilizer for Grasses (Incl. 960 lb.overrun)	615
		500	500	C.Y.	Topsoil (Est.)	621
		36	36	TON	Mulch (Modified)(Incl. 2 tons overrun)	622
		333	333	S.Y.	Jute Netting	623
		1	1	L.S.	Planting Trees, Shrubs & Vines (Mod.)	631

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

TYPE OF CONSTRUCTION

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS −
TOTALS						

LENGTH OF PROJECT

STATIONS	FEET	MILES	REMARKS
TOTALS			

WESTMINSTER-ROCKINGHAM CONTRACT #4 No. 191-1(15) Filed

Sheet 8 of 11 Sheets

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.	191-1(15)	POST WAR		

SUB-BASE OF GRAVEL (LINEAR FEET)

STA.	STA.	DEPTH	EQ. +	EQ. −

CUTTING AND REMOVING TREES

STA.	LT.	RT.

GUIDE POSTS

STA.	LT.	RT.

DRAINAGE STRUCTURES

STA.	STA.	POS.	OLD CULV.	TYPE IN	TYPE OUT	R.C.P. D	R.C.P. L	ACC.G.M.P. D	ACC.G.M.P. L		CONC. B	REINF STEEL	C.R.M.	D.I. GRATE	DEPTH D.I.	TRENCH E	EXCAV. R	GRAVEL BACKFILL ITEM 222	SKEW LT.	SKEW RT.	STRUCT. EXCAV.	BIT. GR. STONE GUTTER ITEM 553	STONE FILL ITEM 522	RIP-RAP FOR CULV. ENDS ITEM 526	ACC.G.M.P. ELBOWS	REMARKS
1785+83		Lt.-Rt.			Outlet Inlet			6"	222'	Underdrain Perforated			0.3			115	28										Subgrade Drain
1788+57		Rt.	42" x 29' C.M.P.													6											Remove Existing Culvert
1789+05		Rt.	10'-8" x 22' Stone Box													9											Remove Existing Culvert
1789+50		Lt.														54	16					71					Inlet Ditch
1789+50		Lt.		Str.	D.I.	36"	76'				2.7	256	4.9		4'-6"	44	20	5									CLASS III
1789+50		Rt.			Cr.			36"	88'				1.4			66											
1789+50		Rt.														5											Outlet Ditch
1791+32		Rt.			Outlet Inlet			6"	130'	Underdrain Perforated			0.3			22	32										Subgrade Drain
1795+50		Lt.		D.I.		24"	72'				2.5	225			4.6"	8	45	7									CLASS III
1795+50		Rt.		D.I.				24"	122'		2.3	217			4-0"	63										2-24"x25'	
1797+00		Lt.-Rt.			Outlet Inlet			6"	218'	Underdrain Perforated			0.3			116	20										Subgrade Drain
1801+50		Lt.														6											Inlet Ditch
1801+50		Lt.		Str.				30"	102'				3.5			67											
1801+50		Rt.		D.I.				30"	116'		4.8	371			9'-6"	92										2-30"x25'	
1808+00		Lt.		D.I.		24"	72'				2.5	225			4'-6"	17	39	4									CLASS III
1808+00		Rt.		D.I.	Cr.			24"	100'		2.0	198	1.0		3'-6"	52											
1812+50		Rt.		D.I.	Cr.	18"	92'				1.8	190	0.8		3'-0"	29	19	6									CLASS III
1812+50		Rt.														37											Outlet Ditch
1815+00		Lt.-Rt.			Outlet Inlet			6"	212'	Underdrain Perforated			0.3			60	118			85°							Subgrade Drain
1815+50		Lt.														18	32										Inlet Ditch
1815+50		Lt.		Str.		30"	76'						3.5			5	74	8									CLASS III
1815+50		Rt.		D.I.				30"	144'		2.6	237			4'-6"	78	9	2									
1818+50		Lt.														35											Inlet Ditch
1818+50		Lt.		Str.	D.I.	30"	60'				2.6	237	3.5		4'-6"	61											CLASS III
1818+50		Rt.			D.I.			30"	96'		2.6	237			4'-6"	69										2-30"x25'	
1820+50		Rt.		D.I.				18"	124'		2.0	198			3'-6"	58										2-18"x6"x25'	
1824+50		Lt.		D.I.	Cr.			18"	106'		1.8	190	0.8		3'-0"	53										2-18"x6"x15'	
1827+00		Lt.-Rt.		Str.				24"	266'	#12 Ga.			2.7			123											
1829+50		Lt.-Rt.						66"	290'	#10 Ga. w/#8 Ga. Bottom Plates			10.0								75		15			Plate Pipe, Step Beveled
1829+50		Lt.																									Inlet Ditch (See Earthwork Sheet)
1831+50		Rt.		D.I.				18"	120'		2.0	198			3'-6"	52										1-18"x6"x15' 1-18"x6"x25'	
1836+00	1837+60	Lt.														47						142					Slope Protection
1837+50		Rt.		D.I.	Cr.	18"	92'				1.8	190	0.8		3'-0"	33	8	1									CLASS III
1838+29		Lt.-Rt.			Outlet Inlet			6"	160'	Underdrain Perforated			0.3			26	164			72°							Subgrade Drain C.I.P. Flushing Basin Lt., Item 532
1838+00	1838+25	Rt.														12						36					Slope Protection
MAINLINE TOTALS			CLASS III	RCP		18"	184'	6"	942'	Underdrain Perforated	34.0	3,169	34.4	—	—	1,538	624	33	—	—	75	249	—	15	1-18"x6"x10'	1 - C.I.P. Flushing Basin, Item 532
			CLASS III	RCP		24"	144'	18"	350'																2-18"x6"x15'	
			CLASS III	RCP		30"	156'	24"	222'																3-18"x6"x25'	
			CLASS III	RCP		36"	76'	24"	266'	#12 Ga.															2-24"x6"x25'	
								30"	458'																4-30"x6"x25'	
								36"	88'																		
								66"	290'	#10 Ga. w/#8 Ga. Bottom Plates																	

THREE CABLE GUARD RAIL WITH STEEL POSTS

STA.	STA.	LT.	RT.	ANCH.

PLANK GUARD RAIL

STA.	STA.	LT.	RT.

WESTMINSTER-ROCKINGHAM
PROJECT 191-1 NO. (15)
CONTRACT # 4

SHEET 9 OF 114 SHEETS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.	191-1(15)	POST WAR		

SUB-BASE OF GRAVEL (LINEAR FEET)

STA.	STA.	DEPTH					EQ. +	EQ. −

CUTTING AND REMOVING TREES

STA.	LT.	RT.

GUIDE POSTS

STA.	LT.	RT.

DRAINAGE STRUCTURES

STA.	STA.	POS.	OLD. CULV.	TYPE IN	TYPE OUT	R.C.P. D	R.C.P. L	ACC.G.M.P. D	ACC.G.M.P. L		CONC. B	REINF. STEEL	C.R.M.	D.I. GRATE	DEPTH D.I.	TRENCH E	EXCAV. R	GRAVEL BACKFILL ITEM 222	SKEW LT.	SKEW RT.	STRUCT. EXCAV.	BIT. GR. STONE GUTTER ITEM 553	STONE FILL ITEM 522	RIP-RAP FOR CULV. ENDS ITEM 526	ACC.G.M.P. ELBOWS	REMARKS
RAMP 'A'																										
9+82		Lt.-Rt.			Cr.			30"	122'				1.2			70				76°						
14+50	18+00	Lt.						6"	350'	Underdrain Perforated						213										
18+00		Lt.-Rt.			Outlet +Bel.			6"	56'	Underdrain Perforated			0.3			30										Underdrain Outlet
18+33		Lt.																				93				Inlet Ditch (See Earthwork Sheet)
18+33		Lt.-Rt.						66"	144'	#12 Ga. w/#10 Ga. Bottom Plates			10.0								60		22			Plate Pipe, Step Beveled
21+50		Rt.		D.I.				15"	28'		3.0	250		1	5'-0"	18								2-15"x25°		
23+32		Lt.-Rt.		Str.				30"	164'	#12 Ga.			3.5			102										
25+00		Rt.														3										Curb Drain (20 L.F.)
RAMP 'A' - LEG 'A'																										
1+00		Rt.														3										Curb Drain (22 L.F.)
1+15		Lt.-Rt.		D.I.	Cr.	18"	60'				2.9	252	0.8		5'-6"	29										CLASS III
1+15		Rt.														12										Outlet Ditch
1+68		Rt.						24"	40'							18				79°						Extend Existing Culvert
1+68		Rt.														14				79°		6				Slope Protection
RAMP A	TOTALS		CLASS III	RCP		18"	60'	6"	406'	Underdrain Perforated	5.9	502	15.8	1	—	512	—	—	—	—	60		99	22	2-15"x25°	
								15"	28'																	
								24"	40'																	
								30"	122'																	
								30"	164'	#12 Ga.																
								66"	144'	#12 Ga. w/#10 Ga. Bottom Plates																
CONTRACT # 4			CLASS III	RCP		18"	244'																			
GRAND	TOTALS							6"	1,348'	Underdrain Perforated	39.9	3,671	50.2	1	—	2,050	624	33	—	—	135	249	99	37	2-15"x25°	I-C.I.P. Flushing Basin - Item 532
			CLASS III	RCP	24"	118'		15"	28'																1-18"x10°	
			CLASS III	RCP	30"	156'		18"	350'																2-18"x15°	
			CLASS III	RCP	36"	76'		24"	200'																3-18"x25°	
								24"	266'	#12 Ga.															2-24"x25°	
								30"	536'																4-30"x25°	
								30"	164'	#12 Ga.																
								36"	88'																	
								66"	290'	#10 Ga. Bottom Plates																
								66"	144'	#10 Ga. w/#8 Ga. Bottom Plates																

THREE CABLE GUARD RAIL WITH STEEL POSTS

STA.	STA.	LT.	RT.	ANCH.

PLANK GUARD RAIL

STA.	STA.	LT.	RT.

WESTMINSTER-ROCKINGHAM
PROJECT 191-1 NO. (15)
CONTRACT # 4

SHEET 10 OF 114 SHEETS

EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR POST #&M	SHEET NO.	TOTAL SHEETS
1	VT.	I 91-1(15)			

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		BEGIN CONTRACT NO. 4 — STA. 1785+00												
		1785+00					447		370		2,472			
						34		563		466		3,113		
		+34					447		370		2,472			
						49		579		449		4,811		
		+83					191		125		2,830			
						50		213		116		5,078		
		1786+33					39		0		2,654			
						49		79		0		4,001		
		+82					48		0		1,755		Cut	5,187
						50		81		9		3,463	R.Cut	2,703
		1787+32					40		10		1,985		Fac.	150
								73		19		3,819	Fill	34,459
		+82					39		10		2,140		Fac.	120
								286		86		3,630	Ex.F	34,001
		1788+32					270		83		1,780			
								315		94		3,199		
		+82					70		18		1,675			
								141		27		2,397		
		1789+32					82		11		914			
								780		344		897		
		+82					760		360		55			
								2,077		1,093		51		
		1790+32					1,483		820		0			
								2,424		1,338		0		
		+82					1,135		625		0			
								2,124		1,196		199		
		1791+32					1,159		667		215			
						50		2,110		1,190		273		
		+82					1,120		618		80			
						49		2,042		1,270		389	Cut	19,499
		1792+31					1,130		782		349		R.Cut	12,404
						69		2,856		1,651		1,577	Fill	12,189
		1793+00					1,005		510		885			
						50		2,050		1,267		1,827		
		+50					1,210		858		1,088			
								2,143		1,626		2,267		
		1794+00					1,105		898		1,360			
								1,951		1,543		2,731		
		+50					1,003		768		1,590			
								1,799		1,323		2,926		
		1795+00					940		661		1,570			
								1,491		1,056		2,949		
		+50					670		479		1,615		Cut	3,254
								822		592		3,384	R.Cut	2,038
		1796+00					218		160		2,040		Fill	54,535
								387		250		4,211		
		+50					200		110		2,508			
								305		121		4,859		
		1797+00					129		21		2,740		Sta. 1790+32 to	
								184		19		5,282	Sta. 1800+00	
		+50					70		0		2,965		Cut	22,753
								65				5,776	R.Cut	14,442
		1798+00					0				3,273		Fac.	150
												6,394	Fill	66,724
		+50									3,632		Fac.	120
												7,266	Ex.F	45,762
		1799+00									4,215			
												7,394		
		+50									3,770			
												7,020		
		1800+00									3,812			
												7,133		
		+50									3,892			
												6,854		
		1801+00									3,510			
												6,336		
		+50									3,333		Cut	156
												5,794	R. Cut	36
		1802+00									2,925		Fac.	150
												5,160	Fill	47,555
		+50									2,648		Fac.	120
												4,702	Ex.F	56,881
		1803+00									2,430			
												4,398		
		+50					0				2,320			
								1				3,375		
		1804+00					1		0		1,325			
								40		9		2,162		
		+50					42		10		1,010			
								115		27		1,641		
		1805+00					82		19		762			
								352		83		937		
		+50					298		71		250			
								656		221		560	Cut	6,655
		1806+00					410		168		355		R.Cut	2,845
								829		406		852	Fac.	150
		+50					485		270		565		Fill	8,809
								956		646		1,343	Fac.	1,20
		1807+00					548		428		885		Ex.F	1,640
						50		753		555		1,801		
		+50					265		171		1,060			
		CARRIED FORWARD						3,546		1,911		5,493		
		COLUMN FOOTINGS						31,642		19,092		154,231		

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		1807+50					265		171		1,060			
						50		527		290		1,722		
		1808+00					305		142		800			
								593		219		852		
		+50					335		95		120			
								579		155		306		
		1809+00					290		72		210			
								573		131		267		
		+50					329		70		78			
								837		139		169		
		1810+00					575		80		105			
								1,106		204		101		
		+50					620		140		4			
								1,215		385		40		
		1811+00					692		276		39			
								1,169		469		101		
		+50					570		230		70			
								713		245		214	Cut	11,429
		1812+00					200		35		161		R.Cut	4,661
						50		557		204		207	Fill	747
		+50	Bk.				402		185		63			
		+50	Ahd.				402		185		1			
						50		979		440		1		
		1813+00					655		290		0			
								1,366		699				
		+50					820		465					
								1,593		773				
		1814+00					900		370					
								1,481		639				
		+50					700		320		0			
								1,250		603		83		
		1815+00					650		331		90			
								972		518		343		
		+50					400		228		280			
								472		232		1,169		
		1816+00					110		22		982		Cut	1,977
								162		20		2,067	R.Cut	770
		+50					65		0		1,250		Fill	29,375
								72				2,565		
		1817+00					13				1,520			
								47				2,880	Sta. 1810+00 to	
		+50					38				1,590		Sta. 1820+00	
								125				3,076	Cut	13,406
		1818+00					97				1,732		R Cut	5,431
								108				3,632	Fac.	150
		+50					20				2,190		Fill	30,122
								19				4,171	Fac.	120
		1819+00					0				2,315		Ex.F	18,396
												4,565		
		+50									2,615			
												4,907		
		1820+00					0				2,684			
								45				4,904		
		+50					48				2,612			
								102				4,970		
		1821+00					62				2,755			
								57				5,195		
		+50					0				2,855			
												5,979	Cut	204
		1822+00									3,602		Fill	63,170
												6,483	Fac.	1.20
		+50									3,400		Ex.F	75,600
												5,977		
		1823+00									3,055			
												6,190		
		+50									3,630			
												7,102		
		1824+00									4,040			
												7,833		
		+50									4420			
												8,537		
		1825+00									4,800			
												9,187		
		+50									5,122			
												10,224		
		1826+00									5,920			
												11,452		
		+50									6,448		Cut	0
												12,211	Fill	124,755
		1827+00									6,740		Fac.	120
												11,696	Ex.F	149,706
		+50									5,892			
												11,154		
		1828+00									6,154			
												12,170		
		+50	SEE GRADE SHEET								6,990			
												13,937		
		1829+00	547.93								8,062			
												15,835		
		+50	49.91								9,040			
						50						16,889		
		1830+00	551.89								9200			
		CARRIED FORWARD						0		0		0		
		COLUMN FOOTINGS						16,719		6,365		221,363		

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		1830+00	551.89								9200			
						50						17,208		
		+50	53.87								9,385			
												17,227	Sta. 1830+00 to	
		1831+00	55.85								9,220		Sta. 1844+00	
												15,060	Cut	86,694
		+50	57.83								7,045		R. Cut	78,896
												12,884	Fac.	1.50
		1832+00	59.82								6,870		Fill	124,702
												12,637	Fac.	120
		+50	61.80								6,778		Ex C.	168
												10,950		
		1833+00	63.78								5,048			
												9,197		
		+50	65.76								4,885			
												7,546		
		1834+00	67.74								3,265			
												5,008	R.Cut	57
		+50	69.72	69.67	−0.05		0		0		2,144		Fill	111,086
		1835+00	71.70	71.50	−0.20		122	113	62	57	1,495	3,369		
								192		136		2,713		
		+50	73.69	73.23	−0.46		85		85		1,435			
								329		329		1,972		
		1836+00	75.67	74.86	−0.81		270		270		695			
								440		440		1,722		
		+50	77.65	76.38	−1.27		205		205		1,165		Cut	25,071
								190		190		2,537	R.Cut	22,952
		1837+00	79.63	77.80	−1.83		0		0		1,575		Fill	13,616
								79		19		2,667		
		+50	81.61	79.11	−2.50		85		20		1,305			
								1,420		1,304		1,607		
		1838+00	83.59	80.33	−3.26		1,448		1,388		430			
								3,896		3,676		398		
		+50	85.57	81.44	−4.13		2,760		2,582		0			
								5,480		5,076				
		1839+00	87.56	82.47	−5.09		3,158		2,900					
								6,114		5,523				
		+50	89.54	83.38	−6.16		3,445		3,065					
								6,931		6,259				
		1840+00	91.52	84.19	−7.33		4,040		3,695					
								7,671		7,068				
		+50	93.50	84.89	−8.61		4,245		3,938					
								8,320		7,651				
		1841+00	95.48	85.50	−9.98		4,740		4,325					
								8,514		7,773			Cut	61,510
		+50	97.46	86.00	−11.46		4,455		4,070				R. Cut	55,887
								7,655		7,020			Fill	0
		1842+00	599.45	86.41	−13.04		3,812		3,512					
								6,988		6,312				
		+50	601.43	86.71	−14.72		3,735		3,305					
								6,931		6,219				
		1843+00	03.41	86.91	−16.50		3,750		3,412					
								7,107		6,284				
		+50	05.39	87.01	−18.38		3,925		3,375					
						50		8,324		7,560				
		1844+00	07.37	87.00	−20.37		5,065		4,790					
		END CONTRACT NO. 4 — STA. 1844+00												
		+50												
		1845+00	611.33	586.68	−24.65									
		CARRIED FORWARD						0		0		0		
		COLUMN FOOTINGS						86,694		78,896		124,702		

PROJECT WESTMINSTER — ROCKINGHAM

PROJECT I 91-1 NO. 15 CONTRACT NO. 4
SHEET 11 OF 114 SHEETS

PRINTED BY STACKPOLE-HALL CO., BOSTON, MASS., SO-KNOX NO. F 15.

GRADE SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD REGION NO.	STATE PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	V.F. I 91-1 (15)	POST WAR		

GRADES - LEFT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.
		1785+00	547.35		
		+34	46.91		
		+50	46.70		
		+83	46.28		
		1786+00	46.05		
		+33	45.63		
		+50	45.40		
		+82	44.99		
		1787+00	44.75		
		+32	44.34		
		+50	44.10		
		+82	43.69		
		1788+00	43.45		
		+32	43.04	543.05	+0.01
		+50	42.80	42.83	+0.03
		+82	42.39	42.46	+0.07
		1789+00	42.15	42.25	+0.10
		+32	41.74	41.91	+0.17
		+50	41.50	41.73	+0.23
		+82	41.09	41.42	+0.33
		1790+00	40.85	41.25	+0.40
		+32	40.69	40.97	+0.28
		+50	40.60	40.83	+0.23
		+82	40.44	40.58	+0.14
		1791+00	40.35	40.45	+0.10
		+32	40.19	40.24	+0.05
		+50	40.10	40.13	+0.03
		+82	39.94	539.94	+0.00
		1792+00	39.85		
		+31	39.69		
		+50	39.60		
		1793+00	39.35		
		+50	39.10		
		1794+00	38.85		
		+50	38.60		
		1795+00	38.35		
		+50	38.10		
		1796+00	37.85		
		+50	37.60		
		1797+00	37.35		
		+50	37.10		
		1798+00	36.85		
		+50	36.60		
		1799+00	36.35		
		+50	36.10		
		1800+00	35.85		
		+50	35.60		
		1801+00	35.35		
		+50	35.10		
		1802+00	34.85		
		+50	34.60		
		1803+00	34.35		
		+50	34.10		
		1804+00	33.85		
		+50	33.60		
		1805+00	33.35		
		+50	33.10		
		1806+00	32.85		
		+50	32.60		
		1807+00	32.35		
		+50	532.10		

400' V.C.

-1.30%

-0.50%

GRADES - RIGHT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.
		1784+8750	543.51		
		1785+00	43.35	543.35	+0.00
		+34	42.91	42.93	+0.02
		+50	42.70	42.74	+0.04
		+83	42.27	42.36	+0.09
		1786+00	42.05	42.18	+0.13
		+33	41.62	41.83	+0.21
		+50	41.40	41.66	+0.26
		+82	40.98	41.36	+0.38
		+8750	40.91	41.31	+0.40
		1787+00	40.85	41.20	+0.35
		+32	40.69	40.93	+0.24
		+50	40.60	40.79	+0.19
		+82	40.44	40.55	+0.11
		1788+00	40.35	40.43	+0.08
		+32	40.19	40.22	+0.03
		+50	40.10	40.11	+0.01
		+82	39.94	539.94	+0.00
		+8750	39.91		
		1789+00	39.85		
		+32	39.69		
		+50	39.60		
		+82	39.44		
		1790+00	39.35		
		+32	39.19		
		+50	39.10		
		+82	38.94		
		1791+00	38.85		
		+32	38.69		
		+50	38.60		
		+82	38.44		
		1792+00	38.35		
		+31	38.19		
		+50	38.10		
		1793+00	37.85		
		+50	37.60		
		1794+00	37.35		
		+50	37.10		
		1795+00	36.85		
		+50	36.60		
		1796+00	36.35		
		+50	36.10		
		1797+00	35.85		
		+50	35.60		
		1798+00	35.35		
		+50	35.10		
		1799+00	34.85		
		+50	34.60		
		1800+00	34.35		
		+50	34.10		
		1801+00	33.85		
		+50	33.60		
		1802+00	33.35		
		+50	33.10		
		1803+00	32.85		
		+50	32.60		
		1804+00	32.35		
		+50	32.10		
		1805+00	31.85		
		+50	31.60		
		1806+00	31.35		
		+50	31.10		
		1807+00	30.85		
		+50	530.60		

400' V.C.

-1.30%

-0.50%

GRADES - LEFT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.
		1808+00	531.85		
		+50	31.60		
		1809+00	31.35		
		+50	31.10		
		1810+00	30.85		
		+50	30.60		
		1811+00	30.35		
		+50	30.10		
		1812+00	29.85		
		+50	29.60		
		1813+00	29.35		
		+50	29.10		
		1814+00	28.85		
		+50	28.60		
		1815+00	28.35		
		+50	28.10		
		1816+00	27.85		
		+50	27.60		
		1817+00	27.35		
		+50	27.10		
		+5463	27.08		
		1818+00	26.85	526.89	+0.04
		+50	26.60	26.78	+0.18
		1819+00	26.35	26.78	+0.43
		+50	26.10	26.87	+0.77
		1820+00	25.85	27.07	+1.22
		+50	25.60	27.37	+1.77
		1821+00	25.35	27.77	+2.42
		+50	25.10	28.27	+3.17
		1822+00	24.85	28.87	+4.02
		+50	24.60	29.58	+4.98
		1823+00	24.35	30.38	+6.03
		+0463	24.33	30.47	+6.14
		+50	26.13	31.30	+5.17
		1824+00	28.11	32.30	+4.19
		+50	30.09	33.41	+3.32
		1825+00	32.07	34.62	+2.55
		+50	34.06	35.94	+1.88
		1826+00	36.04	37.36	+1.32
		+50	38.02	38.87	+0.85
		1827+00	40.00	40.49	+0.49
		+50	41.98	42.20	+0.22
		1828+00	43.96	44.02	+0.06
		+50	45.95	545.95	+0.00
		+54.63	46.13		
		1829+00	547.93		

1100' V.C.

-0.50%

+3.963%

GRADES - RIGHT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.
		1808+00	530.35		
		+50	30.10		
		1809+00	29.85		
		+50	29.60		
		1810+00	29.35		
		+50	29.10		
		1811+00	28.85		
		+50	28.60		
		1812+00	28.35		
		+50	28.10		
		1813+00	27.85		
		+50	27.60		
		1814+00	27.35		
		+50	27.10		
		1815+00	26.85		
		+50	26.60		
		1816+00	26.35		
		+50	26.10		
		1817+00	25.85		
		+2.02	25.75		
		+50	25.60	525.62	+0.02
		1818+00	25.35	25.48	+0.13
		+50	25.10	25.44	+0.34
		1819+00	24.85	25.50	+0.65
		+50	24.60	25.66	+1.06
		1820+00	24.35	25.93	+1.58
		+50	24.10	26.30	+2.20
		1821+00	23.85	26.76	+2.91
		+50	23.60	27.33	+3.73
		1822+00	23.35	28.00	+4.65
		+50	23.10	28.78	+5.68
		+71.02	23.00	29.14	+6.14
		1823+00	24.15	29.66	+5.51
		+50	26.13	30.63	+4.50
		1824+00	28.11	31.71	+3.60
		+50	30.09	32.88	+2.79
		1825+00	32.07	34.16	+2.09
		+50	34.06	35.55	+1.49
		1826+00	36.04	37.03	+0.99
		+50	38.02	38.61	+0.59
		1827+00	40.00	40.30	+0.30
		+50	41.98	42.08	+0.10
		1828+00	43.96	543.97	+0.01
		+2.02	44.80		
		+50	45.95		
		1829+00	547.93		

1100' V.C.

-0.50%

+3.963%

GRADES - LEFT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.

GRADES - RIGHT HAND LANE

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V. C.

PROJECT WESTMINSTER - ROCKINGHAM

PROJECT I 91-1 NO. (15) CONTRACT NO. 4

SHEET 12 OF 114 SHEETS

EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

FED. ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT.	191-1(15)	COST WAR		

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		BEGIN RAMP 'A' STA. 0+00.00												
	Splined Gradient	0+00	530.35											
		+50	30.12											
		1+00	29.89											
		+50	29.68											
		2+00	29.52											
		+50	29.39											
		3+00	29.29											
		+50	29.20				0				62			
		+66	29.18			50	5	5			32	87		
		4+00	28.94				61	61			0	30		
		+50	28.44				60	112			0	0		
		5+00	27.94				10	65			42	39	Cut	252
	-1.00%	+50	27.44	527.29	- 0.15		0	9			277	295	Fill	16,009
370' V.C.		6+00	26.94	26.33	- 0.61						530	747	Foc.	120
		+50	26.44	25.06	- 1.38						804	1,235	Ex.F	18,959
		+85	26.09	23.99	- 2.10						906	1,583		
		7+00	25.26	23.48	- 1.78						1,070	1,830		
		+50	22.49	21.61	- 0.88						1,302	2,196		
		8+00	19.71	19.41	- 0.30						1,321	2,429		
		+50	16.94	516.92	- 0.02						1,550	2,658		
		+70	15.83								1,560	2,880		
		9+00	14.17									2,157		
		+50	11.39								770	1,009		
		10+00	08.62				0	45			320	324		
		+50	05.85				48	200			30	79		
		11+00	03.07				168	265			55	333	Cut	2,008
		+50	500.30				118	257			305	437	Fill	4,820
		12+00	497.53				160	482			167	201	Foc.	120
		+50	94.76				360	333			50	126	Ex.F	3,776
		13+00	91.98				0	28			86	117		
		+50	89.21				30	398			40	37		
		14+00	86.44				400	1,206			0			
		+50	83.66				902	1,724						
		15+00	80.89				960	1,935						
		+50	78.12				1,130	2,134					Cut	11,157
		16+00	75.34				1,175	2,051					Fill	12,485
		+50	72.57				1,040	1,181			0	116	Foc.	1.20
		17+00	69.80				235	218			125	1,736	Ex.F	3,825
		+50	67.03				0	0			1,750	4,375		
		18+00	64.25				0	7			2,975	4,421		
		+50	61.48			50	8	701			1,800	1,837		
		19+00	58.71			52	720	934			108	116		
		+50	55.93				250	255			12	472		
		20+00	53.16			55	0				451	989		
		+02	53.05			37					992	1,928		
		+50	50.39			52								
		+54	50.17			56								
		21+00	47.61											
		+09	47.11											
		+46	45.06											
		+50	44.84											
		22+00	42.07											
		+02	441.96								867			
		CARRIED FORWARD						1,189	0			3,505		
		COLUMN FOOTINGS						14,606	0			36,819		

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		22+02	441.96								867			
		+50	39.30			53						1,575		
		+55	39.02								738			
		23+00	36.52			53						1,549		
		+08	36.08								840			
	-5.546%	+20	35.41			24						1,904	Cut	1,236
		+32	34.75	434.77	+ 0.02						3,445		Fill	14,585
		+50	33.75	33.87	+ 0.12	26						3,048	Foc.	120
		+58	33.31	33.51	+ 0.20						2,886		Ex.F.	16,266
		24+00	30.98	31.87	+ 0.89	50						2,831		
	200' V.C.	+08	30.53	31.60	+ 1.07		0				172			
		+20	29.86	31.25	+ 1.39									
		24+22.46 Bk=	29.86	31.18	+ 1.32	4846		47				173		
		24+66.00 Ahd.												
		25+00	29.86	30.42	+ 0.56		26				22			
						50		133				20		
		+50	29.86	29.89	+ 0.03		118				0			
	0.00%	+6354	29.86			50		364					Sta 25+00 to Sta. 27+15 Incl. Leg 'A'	
		26+00 Bk	29.86				275							
		26+00 Ahd					100							
						50		190					Cut	1,835'
		+50	29.86				105						Fill	346
						50		245					Foc.	120
		27+00	29.86				160						Ex.C.	1,420
						15		103						
		+15	429.86				210							
		END RAMP 'A' STA. 27+15												
		RAMP 'A' LEG 'A'												
		BEGIN LEG 'A' STA. 0+00.00												
	Splined Gradient	0+00	429.86											
		+35	29.77				175							
						15		98						
		+50	29.59				176						Cut	800
													Fill	326
	-1.50%	+75	28.93			50		385						
	50' V.C.	1+00	28.56	428.78	+ 0.22		240				0			
		+25	29.05			50		257				120		
	+1.95%	+50	29.54				38				130			
		2+00	30.51			8562		60				206		
		+35.62	431.20				0				0			
		END LEG 'A' STA. 2+35.62												
		CARRIED FORWARD						0	0		0			
		COLUMN FOOTINGS						1,882	0		11,426			

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		CARRIED FORWARD										
		COLUMN FOOTINGS										

PROJECT WESTMINSTER – ROCKINGHAM

PROJECT 191-1 RD (15) CONTRACT NO. 4
SHEET 13 OF 114 SHEETS

EARTHWORK

NOTE: ROCK FILL IS INCLUDED IN EMBANKMENT QUANTITY

	STATION	DIST.	TRENCH EXCAV. EARTH AREA	TRENCH EXCAV. EARTH CU. YDS.	TRENCH EXCAV. ROCK AREA	TRENCH EXCAV. ROCK CU. YDS.	CHANNEL EXCAV. EARTH AREA	CHANNEL EXCAV. EARTH CU. YDS	ROCK FILL AREA	ROCK FILL CU. YDS.
Interceptor Ditch Lt.	1809+75		0							
		25		10						
	1810+00		22							
		50		59						
	+50		42							
				67		Sta.1809+75 to Sta.1813+75				
	1811+00		30							
				45		Trench Excav.				
	+50		18			Earth 287 C.Y.				
	1812+00		20	35						
				32						
	+50		15							
				23						
	1813+00		10							
		50		14						
	+50		5							
		25		2						
	+75		0							
Special Ditch Lt.	1822+25		0							
		25		50						
	+50		107							
		50		331						
	1823+00		250							
				241		Sta.1822+25 to Sta.1825+85				
	+50		10			Trench Excav.				
				42		Earth 911 C.Y.				
	1824+00		35							
				56						
	+50		25							
				74						
	1825+00		55							
		50		90						
	+50		42							
		35		27						
	+85		0							
Special Ditch Lt.	1830+75		0							
		25		32		Sta.1830+75 to Sta.1831+75				
	1831+00		70							
		50		82		Trench Excav.				
	+50		18			Earth 122 C.Y.				
		25		8						
	+75		0							
Special Ditch Rt.	1835+75		0		0					
		25		14		72	Sta.1835+75 to Sta.1837+50			
	1836+00		30		155					
		50		51		260	Trench Excav.			
	+50		25		105		Earth 135 C.Y.			
		50		42		201	Rock 646 C.Y.			
	1837+00		20		112					
		50		28		113				
	+50		10		10					
RAMP 'A' Rt.	RAMP 'A'									
	18+33								20	
		17					Sta.18+33 to Sta.19+25			13
	+50								20	
		50					Rock Fill 69 C.Y.			37
	19+00								20	
		25								19
	+25								20	
RAMP 'A' Special Ditch Lt.	RAMP 'A'									
	24+00		0							
		50		14						
	+50		15							
				40		Sta. 24+00 to Sta. 27+00				
	25+00		28							
				39		Trench Excav.				
	+50		14			Earth 136 C.Y.				
	26+00		10							
				22						
	+50		6							
		50		6						
	27+00		0							
	1829+50 INLET DITCH LT.							15 C.Y.		
	RAMP 'A' 18+33 INLET DITCH LT.							191 C.Y.		
	CARRIED FORWARD		0		0		0		0	
	COLUMN FOOTINGS		1,591		646		206		69	

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	CORR. V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		CARRIED FORWARD												
		COLUMN FOOTINGS												

EARTHWORK SUMMARY

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

SUMMARY OF BALANCES

STATION	TO STATION	TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
1785+00	1790+32	5,187	2,703	34,459		34,001		34,001
1790+32	1800+00	22,753	14,442	66,724		45,762		79,763
1800+00	1805+00	156	36	47,555		56,881		136,644
1805+00	1810+00	6,655	2,845	8,809		1,640		138,284
1810+00	1820+00	13,406	5,431	30,122		18,396		156,680
1820+00	1825+00	204	—	63,170		75,600		232,280
1825+00	1830+00	—	—	124,755		149,706		381,986
1830+00	1844+00	86,694	78,896	124,702	168			381,818
RAMP 'A'								
3+50	10+00	252	—	16,009		18,959		400,777
10+00	15+00	2,008	—	4,820		3,776		404,553
15+00	20+00	11,157	—	12,485		3,825		408,378
20+00	25+00	1,236	—	14,585		16,266		424,644
25+00	27+15	1,835	—	346	1,420			423,224
TOTALS		151,543	104,353	548,541	1,588	424,812		

NOTE: FOR INFORMATION:
THE MAINLINE ROCK QUANTITIES BETWEEN STATIONS 1838 + 00 AND 1844 + 00 ON THIS PROJECT WERE COMPUTED USING A SLIGHTLY DIFFERENT TYPICAL CROSS SECTION THAN THE ONE PRESENTLY DESIGNED; THE INDIVIDUAL CUBIC YARD FIGURES FOR ROCK AS SHOWN ON THE EARTHWORK SHEETS MAY VARY SOMEWHAT, AND THE TOTAL ROCK QUANTITIES HAVE BEEN INCREASED BY 4700 C.Y. WHICH IS INCLUDED IN THE OVERRUN ALLOWANCE ON THE SUMMARY OF QUANTITIES SHEET.

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CUBIC YARDS	ROCK FILL CUBIC YARDS
	1	31,642	19,092	154,231	
	2	16,719	6,365	221,363	
	3	86,694	78,896	124,702	
	1	14,606	0	36,819	
	2	1,882	0	11,426	
	1				69
TOTALS		151,543	104,353	548,541	69

REMARKS

EARTH AND ROCK EXCAVATION	151,543
SOLID ROCK EXCAVATION	104,353
EARTH EXCAVATION	47,190
PLANIMETERED FILL	548,541
LESS GRANULAR BORROW NEAR PAVED PITCH SLOPES	5,065
LESS FACTORED SOLID ROCK (1.50)	156,530
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	392
NET PLANIMETERED FILL	386,126
FACTOR (1.20)	77,225
PLANIMETERED FILL INCLUDING FACTOR	463,351
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	47,190
CHANNEL EXCAVATION (60 %)	120
UNDERDRAIN EXCAVATION (50 %)	500
STRUCTURE EXCAVATION (40 %)	53
TOTAL MATERIAL AVAILABLE FOR FILL	47,867
TOTAL FILL INCLUDING FACTOR	463,351
TOTAL MATERIAL FOR FILL	47,867
BORROW	415,484

PROJECT WESTMINSTER – ROCKINGHAM

PROJECT I 91-1 NO. (15)
CONTRACT NO. 4
SHEET 14 OF 114 SHEETS

FINAL EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATION	DIST	TOTAL EXCAV. EARTH & ROCK AREA	TOTAL EXCAV. EARTH & ROCK CU. YDS.	NET ROCK EXCAV. E&R AREA	NET ROCK EXCAV. E&R CU. YDS.	Overbreakage AREA	Overbreakage CU. YDS.	Unauthorized Fill AREA	Unauthorized Fill CU. YDS.	Borrow AREA	Borrow CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
1785		414		414		0						Net Cut	6430		
	34				552		14					Overbrnk.	209		
+34		477		461		15		0				Un.Auth. Fill	436		
	49				534		19		128						
+83		125		125		0		141				Borrow	197		
	50				145				219						
1786+33		32		32				96							
	49				76				89						
+82		52		52				0							
	50				126										
1787+32		89		89											
+82		113		113											
					547										
1788+32		478		478											
					617										
+82		188		188											
					295										
1789+32		131		131											
					1008										
+82		958		958		0									
					2348		181								
1790+32		1393		1578		195				116					
					2612		331				200				
+82		1405		1243		162				100		Net Cut	19916		
					2397		354				234	Overbrnk	2298		
1791+32		1394	(1174)	1346		220				133					
	50				2296		335				220	Borrow	1625		
+82		1276		1134		142				85					
	49				2081		290				186				
1792+31		1335		1159		176				113					
	69				2650		339				205				
1793+40		1002		914		88				43					
	50				1902		128				40				
+50		1190		1140		50				0					
					2086		162				64				
1794		1238		1113		125				69					
					1929		343				245				
+50		1215		970		245				196					
					1763		318				231				
1795		1033		935		98		0		53					
					1447		135		78		66				
+50		696		628		48		84		18					
					785		86		196		48	Net Cut	3401		
1796		265		220		45		128		34		Overbrnk	337		
					437		79		234		57				
+50		292		252		40		125		28		Un.Auth. Fill	864		
					391		37		236		26				
1797		170		190		0		130		0		Borrow	197		
					198				120						
+50		45		43				0							
					56										
1798		16		16											
					19										
+50		5		5											
					36										
1799		34		34											
					31										
+50		0		0											
1800		0		0											
+50															
1801												Net Cut	115		
+50															
1802															
+50															
1803															
+50															
1804															
+50		50		50		0									
					115										
1805		74		74		0				0					
					351		27				13				
+50		334		303		29				14					
					652		72				40				
1806		448		399		49				29					
					819		122				82				
+50		563		480		83				60					
					951		139				94				
1807		619		547		67				42					
CARRIED FORWARD					2969		380				229				
COLUMN TOTAL					32430		3504		1300		2158				

STATION	DIST	TOTAL EXCAV. EARTH & ROCK AREA	TOTAL EXCAV. EARTH & ROCK CU. YDS.	Net ROCK EXCAV. E&R AREA	Net ROCK EXCAV. E&R CU. YDS.	Unauthorized Fill AREA	Unauthorized Fill CU. YDS.	Overbreakage AREA	Overbreakage CU. YDS.	Borrow AREA	Borrow CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
1807		619		547				67		42					
					744						61	Net Cut	6650		
+50		892		257				35	94	24					
					512				62		38	overbrnk	879		
1808		328		296				32		17		Borrow	559		
					565				57		30				
+50		344		314				30		15					
					569				73		45				
1809		349		300				49		34					
					571				96		62				
+50		516		453				55		33					
					921				139		94				
1810		645	(559)	570				93		68					
					1130				86		63				
+50		690		690				0		0		Net Cut	11993		
					1256				3		0				
1811		790	(627)	687				3		0		overbrnk	458		
					1241				32		0				
+50		685		653				32		0		Borrow	193		
					786				33						
1812		200		196				4		0					
					547				41		19				
+50		435		393				40		20					
					1014				37		19				
1813				700				0		0					
					1422				83		46				
+50		925		835				90		50					
					1596				113		46				
1814		920		888				32		0					
					1694				30						
+50				725				0							
					1289										
1815				665											
					1014										
+50		430	528									Net Cut	2155		
1816		140													
			185												
+50		60													
			69												
1817		15													
			58												
+50		48													
			156												
1818		120													
			128												
+50		18													
			17												
1819		0													
+50		0													
1820		0													
			42												
+50		45										Net Cut	186		
1821		55	93												
			51												
+50		0													
1822															
+50															
1823		0													
+50		0													
1824		0													
+50		0													
1825															
+50															
1826															
+50															
1827															
+50															
1828															
+50															
1829															
CARRIED FORWARD															
COLUMN TOTAL			19996						977		523				

STATION	DIST	TOTAL EXCAV. EARTH & ROCK AREA	TOTAL EXCAV. EARTH & ROCK CU. YDS.	Net Excav. Earth & Rock AREA	Net Excav. Earth & Rock CU. YDS.	Overbreakage AREA	Overbreakage CU. YDS.	Borrow AREA	Borrow CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
1829+50													
1830													
+50													
1831													
+50													
1832													
+50												Net Cut	156
1833													
+50													
1834		0											
+50		0		0									
					156								
1835		163		163									
					232								
+50		88		88		0		0					
					496		122		102				
1836		580		448		132		110					
			440		935		205		169			Net Cut	25300
+50		435		346		89		82				Overbrnk	3180
			190		446		142		120				
1837		200		136		64		58				Borrow	1991
					163		59		54				
+50		40		40		0		0					
					588		116		88				
1838		720		595		125		95					
					3347		394		227				
+50		3320		3019		301		150					
					5863		526		233				
1839				3313		267		102					
					6360		726		319				
+50		3973		3556		417		242					
					7070		830		479				
1840		4558		4079		479		295					
					7854		1072		680				
+50		5032		4403		679		159				Net Cut	64013
					8477		1158		634			overbrnk	7579
1841		5215		4752		463		226				Borrow	4186
					8506		989		364				
+50		4823		4414		389		167					
					7908		791		397				
1842		4410		3966		448		240					
					7350		819		444				
+50		4413		3972		441		240					
					9440		930		519				
1843		4626		4063		563		321					
					9670		1053		634				
+50		4794		4220		574		364					
					8938		982		534				
1844		5719		5433		486		216					
CARRIED FORWARD													
COLUMN TOTAL				84169		10694		5977					

PROJECT Westminster-Rockingham (Main Line)

PROJECT I-91-1(13) NO. Cont. 4
SHEET ____ OF ____

FINAL EARTHWORK SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

STATION	DIST	TOTAL EXCAV. EARTH & ROCK AREA	TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.
0100					
150					
120					
150					
210					
150					
310					
150		35			
410		0	32		
150		78	92		
510		55	123		
150		8	58		
610		0	9		
150		0			
710		0			
150					
810					
150					
910					
150					
1010					
150					
1110		0			
150		110	102		
1270		250	333		
150		267	479		
1310		295	520		
150		485	726		
1410		68	572		
150		61	119		
1510		540	556		
150		1025	1449		
1610		1080	1949		
150		1900	2296		
1710		1340	2639		
150		1115	2273		
1810		228	1241		
150	50	0	208		
1910	50	0	9		
150	50	0	789		
2010	52	820			
		CARRIED FORWARD			
		COLUMN TOTAL	16386		

STATION	DIST	TOTAL EXCAV. EARTH & ROCK AREA	TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK AREA	ROCK CU. YDS.
2010					
+02	52	820	1219		
+54	55	445	453		
2110		0			
+96	37	0			
2210		0			
+55	53	0			
2310		0			
+58	50	0			
2410		0			
2410+66.00 BK'S = 2410+27.96	39	2410+66.00 AHD.	19		
2510	50	30	99		
+50	50	177	311		
2610	50	259	309		
+50	50	85	208		
2710	15	150	83		
+15					
		Leg "A"			
010		0			
+50	50	235	218		
170		230	431		
+50	50	40	250		
210		0	37		
+35	35				

		Net Cut	Overbreakage Total	Overbreakage Excess 45%
Roadway	Col. 1	32430	3504	1158
	Col. 2	12996	977	533
	Col. 3	84469	10694	5777
		129895	15175	8468
Ramp A				
Ramp A	Col. 1	16386		
	Col. 2	3631		
		20023		
		11485		
		3538		
Total		154,918	15175	

	154,918 Total Exc
	43277 minus Earth
	106,641
	6511 overbreakage 5%
	113,152 Total Rock

Total Exc	154	918
Rock	123	134
Earth	43	277
Plus Fill	542	541
Gross Borrow	18	212
Less Fac. Rock (Est.)	165	370
Less Structures		392
Net Plus Fill	564	566
Fac. 1.3	72	914
Plus Fill Incl Fac	637	480

Material Avail. for Fill

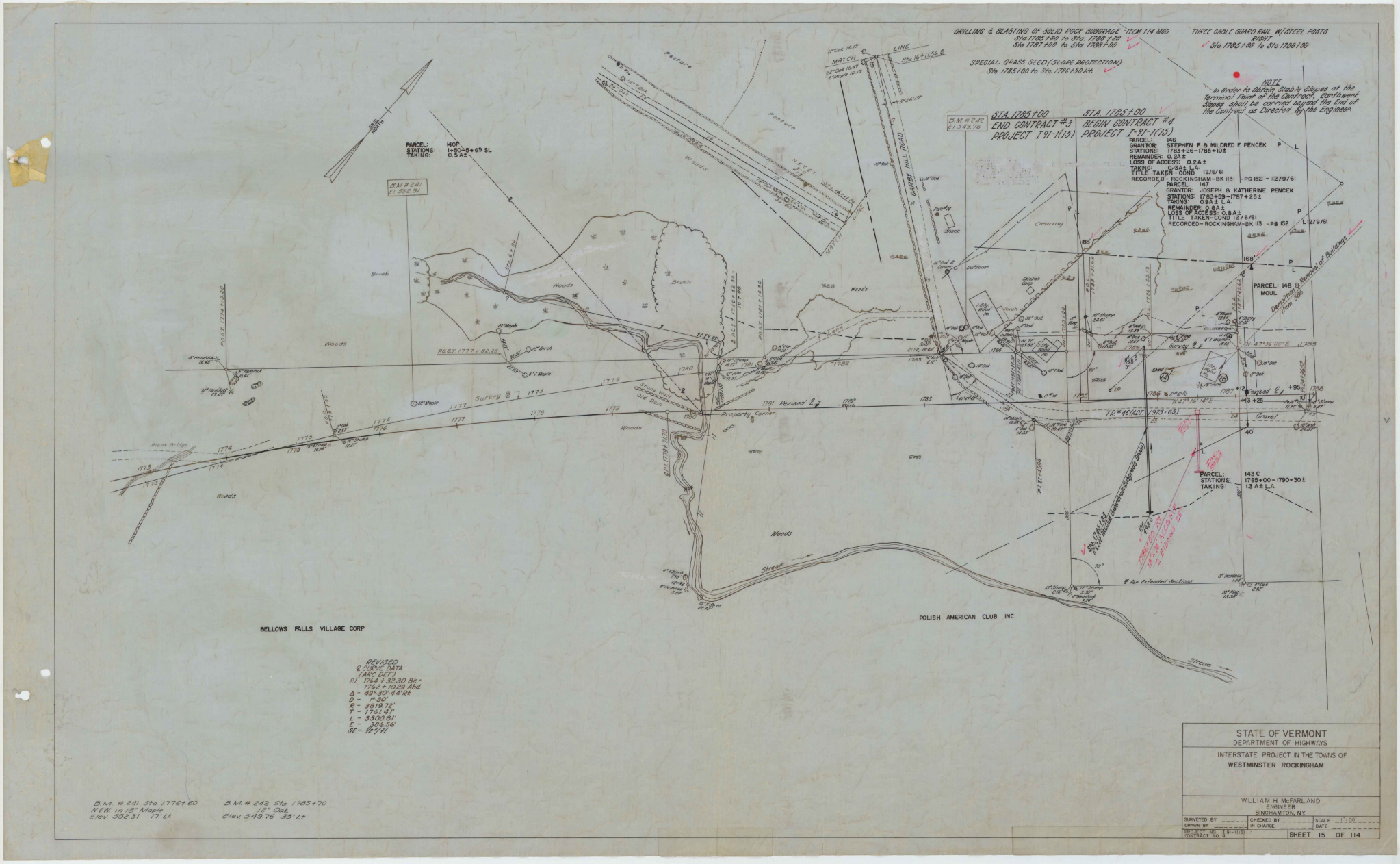
Earth	43	277
Channel Ex. 60%		0
Undercrown 60%		455
Struc. Ex. 40%		195
Total Avail.	43	927
Total Fill Incl Fac.	637	480
Total Mat. for Fill	43	927
Borrow	593	473
Actual Borrow	593	567
Diff.		2 394

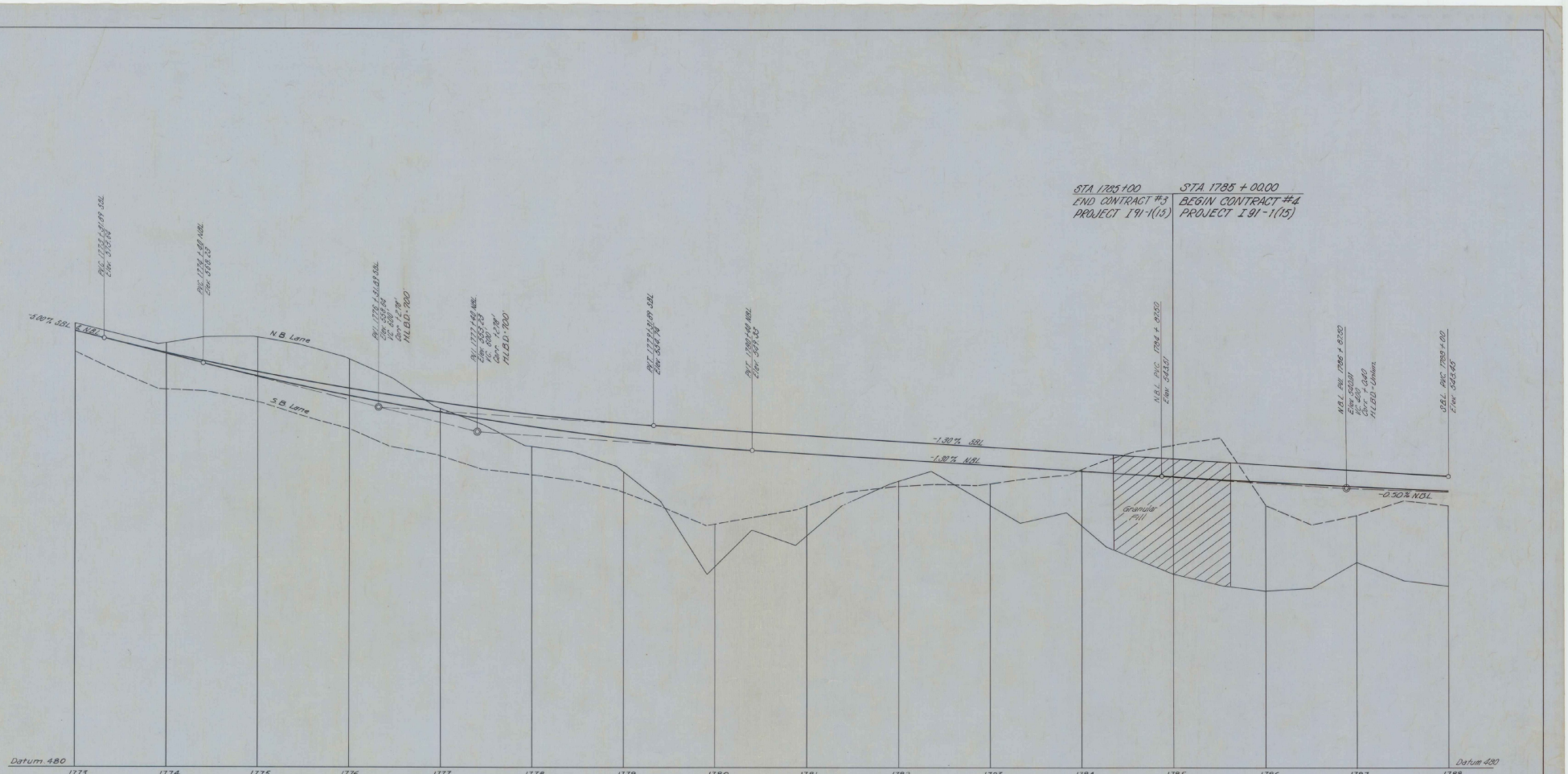
CARRIED FORWARD	
COLUMN TOTAL	

PROJECT Westminster - Rockingham (Ramp)

PROJECT I-91-1(15) NO. Col. 4

SHEET ____ OF ____


DRILLING & BLASTING OF SOLID ROCK SUBGRADE - ITEM 114 MOD.
Sta. 1785+00 to Sta. 1788+20
Sta 1787+00 to Sta. 1788+00
THREE CABLE GUARD RAIL W/STEEL POSTS
RIGHT
Sta. 1785+00 to Sta. 1788+00
SPECIAL GRASS SEED (SLOPE PROTECTION)
Sta. 1785+00 to Sta. 1786+30 Rt.
NOTE
In order to obtain stable slopes at the Terminal Point of the Contract, Continuous Slopes shall be carried beyond the End of the Contract as Directed by the Engineer.
B.M. # 242 El. 349.76
STA. 1785+00
END CONTRACT #3
PROJECT I 91-1(13)
STA. 1785+00
BEGIN CONTRACT #4
PROJECT I-91-1(15)
PARCEL: 146
GRANTOR: STEPHEN F. & MILDRED F. PENCEK P L
STATIONS: 1783+26 - 1785+10±
REMAINDER: 0.2A ±
LOSS OF ACCESS: 0.2A ±
TAKING: 0.3A ± L.A.
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 - 12/9/61
PARCEL: 147
GRANTOR: JOSEPH & KATHERINE PENCEK
STATIONS: 1783+59 - 1787+25±
TAKING: 0.9A ± L.A.
REMAINDER: 0.8A ±
LOSS OF ACCESS: 0.9A ± P
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 L 12/9/61
PARCEL: 148
MOUL
Demolition & Removal of Buildings Item 206
PARCEL: 140 P
STATIONS: 1+50 - 5+69 SL
TAKING: 0.5 A ±
B.M. # 241 El. 332.31
PARCEL: 143 C
STATIONS: 1785+00 - 1790+30 ±
TAKING: 1.3 A ± L.A.
Property Corner
Old Dam
Stream
Woods
Pasture
Brush
Clearing
Gravel
Survey @ 7
Survey @ 8
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STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

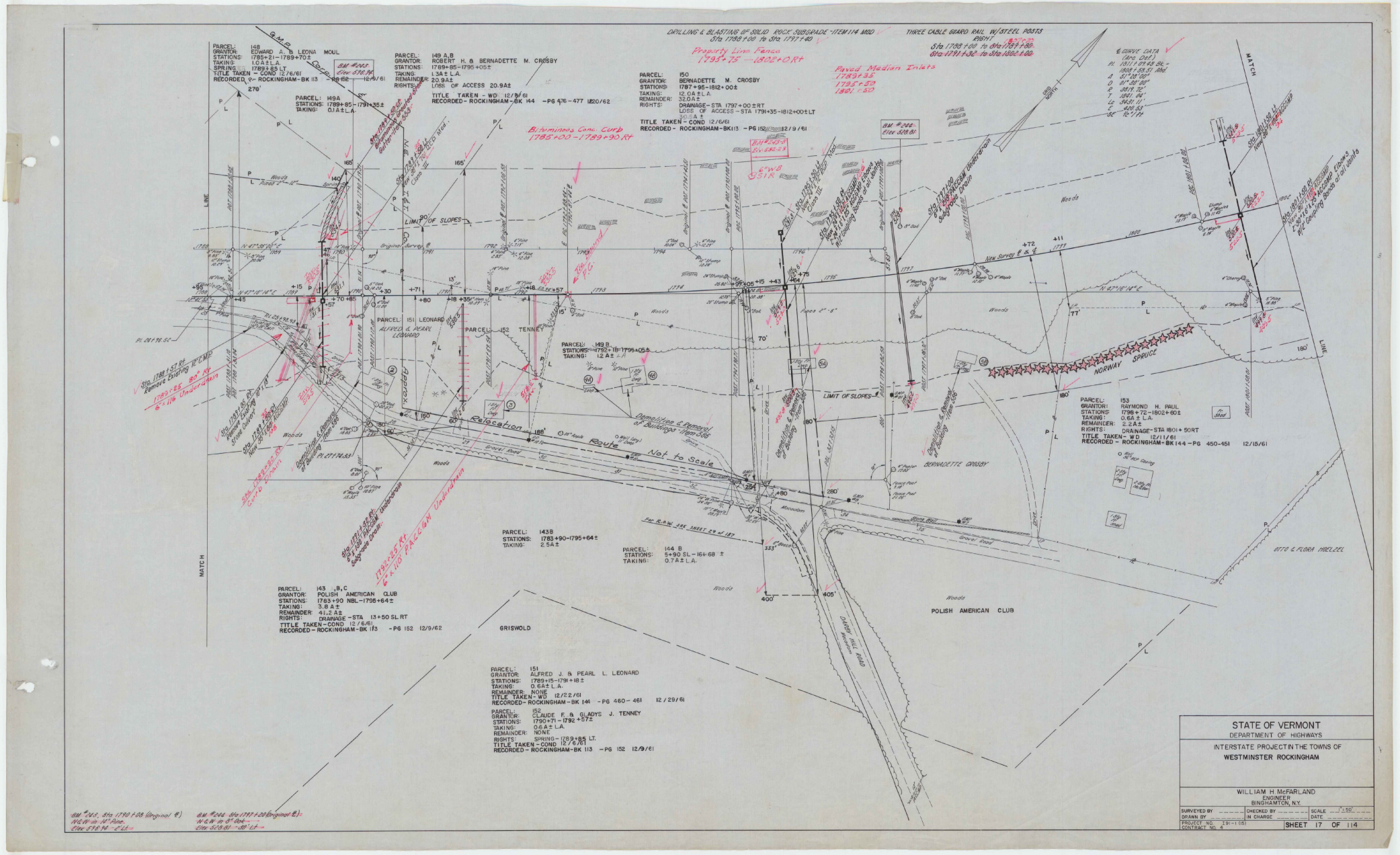
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
PROFILE
STA. 1785+00 – STA. 1788+00

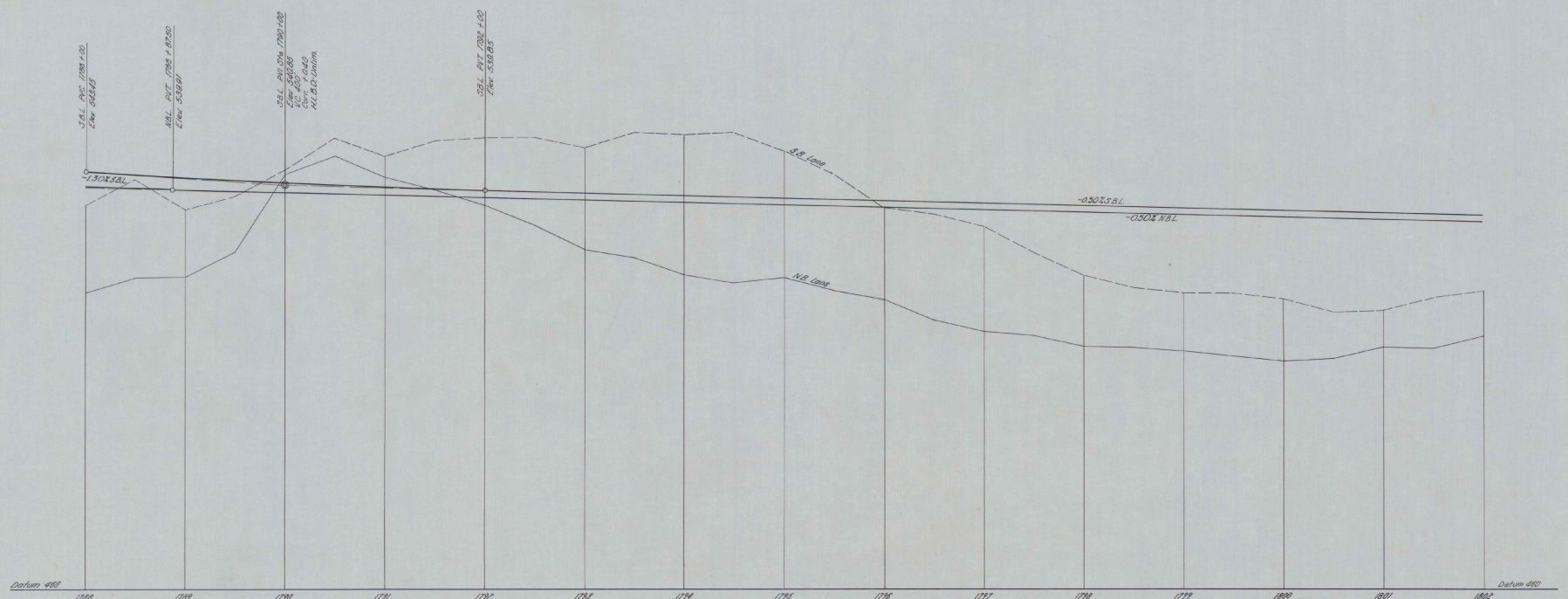
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE Hor. 1"=50 – Vert. 1"=10
DRAWN BY	IN CHARGE	DATE

PROJECT NO. I 91 - 1(15)
CONTRACT NO. 4

SHEET 16 OF 114


PARCEL: 148
GRANTOR: EDWARD A. & LEONA MOUL
STATIONS: 1785+21 - 1789+70±
TAKING: 1.0A±L.A.
SPRING: 1789+85 LT
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 12/6/61
PARCEL: 149A
STATIONS: 1789+85 - 1791+35±
TAKING: 0.1A±L.A.
PARCEL: 149 A,B
GRANTOR: ROBERT H. & BERNADETTE M. CROSBY
STATIONS: 1789+85 - 1795+05±
TAKING: 1.3A± L.A.
REMAINDER: 20.9A±
RIGHTS: LOSS OF ACCESS 20.9A±
TITLE TAKEN - WD 12/8/61
RECORDED - ROCKINGHAM - BK 144 - PG 476 - 477 12/20/62
PARCEL: 150
GRANTOR: BERNADETTE M. CROSBY
STATIONS: 1787+95 - 1812+00±
TAKING: 12.0A±L.A.
REMAINDER: 32.0A±
RIGHTS: DRAINAGE - STA 1797+00±RT
LOSS OF ACCESS - STA 1791+35 - 1812+00±LT
30.0A±
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 12/9/61
DRILLING & BLASTING OF SOLID ROCK SUBGRADE - ITEM 114 MOD
Sta 1798+00 to Sta 1797+40
THREE CABLE GUARD RAIL W/STEEL POSTS
RIGHT
Sta 1798+00 to Sta 1799+80
Sta 1799+32 to Sta 1802±00
Property Line Fence
1795+75 - 1802±ORT
Paved Median Inlets
1789+35
1795+50
1801+50
℄ CURVE DATA
(Arc Def.)
PI 1811+09.93 BK - 1808+69.57 Ahd
Δ 51°28'00"
D 8°30'00"
R 201.8'
T 1041.04'
Lc 1931.13'
E 498.63'
SE 12.1%
Bituminous Conc. Curb
1785+00 - 1789+90 RT
LIMIT OF SLOPES
PARCEL: 151 LEONARD
ALFRED & PEARL LEONARD
PARCEL: 152 TENNEY
PARCEL: 149 B
STATIONS: 1792+18 - 1795+05±
TAKING: 1.2A± L.A.
Relocation
Route
Not to Scale
Demolition & Removal of Buildings - Item 206
PARCEL: 153
GRANTOR: RAYMOND H. PAUL
STATIONS: 1796+72 - 1802+60±
TAKING: 0.6A± L.A.
REMAINDER: 2.2A±
RIGHTS: DRAINAGE - STA 1801+50RT
TITLE TAKEN - WD 12/11/61
RECORDED - ROCKINGHAM - BK 144 - PG 450-451 12/15/61
NORWAY SPRUCE
BERNADETTE CROSBY
PARCEL: 143B
STATIONS: 1783+90 - 1795+64±
TAKING: 2.5A±
PARCEL: 144 B
STATIONS: 5+90 SL - 164+68 ±
TAKING: 0.7A± L.A.
PARCEL: 143 B,C
GRANTOR: POLISH AMERICAN CLUB
STATIONS: 1783+90 NBL - 1795+64±
TAKING: 3.8A±
REMAINDER: 41.2A±
RIGHTS: DRAINAGE - STA 13+50 SL RT
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 12/9/62
GRISWOLD
POLISH AMERICAN CLUB
OTTO & FLORA HAELZEL
PARCEL: 151
GRANTOR: ALFRED J. & PEARL L. LEONARD
STATIONS: 1789+15 - 1791+18±
TAKING: 0.6A± L.A.
REMAINDER: NONE
TITLE TAKEN - WD 12/22/61
RECORDED - ROCKINGHAM - BK 144 - PG 460 - 461 12/29/61
PARCEL: 152
GRANTOR: CLAUDE F. & GLADYS J. TENNEY
STATIONS: 1790+71 - 1792+57±
TAKING: 0.6A± L.A.
REMAINDER: NONE
RIGHTS: SPRING - 1789+85 LT.
TITLE TAKEN - COND 12/6/61
RECORDED - ROCKINGHAM - BK 113 - PG 152 12/9/61
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.
SURVEYED BY
DRAWN BY
CHECKED BY
IN CHARGE
SCALE 1"=50'
DATE
PROJECT NO. 191-1(15)
CONTRACT NO. 4
SHEET 17 OF 114



STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

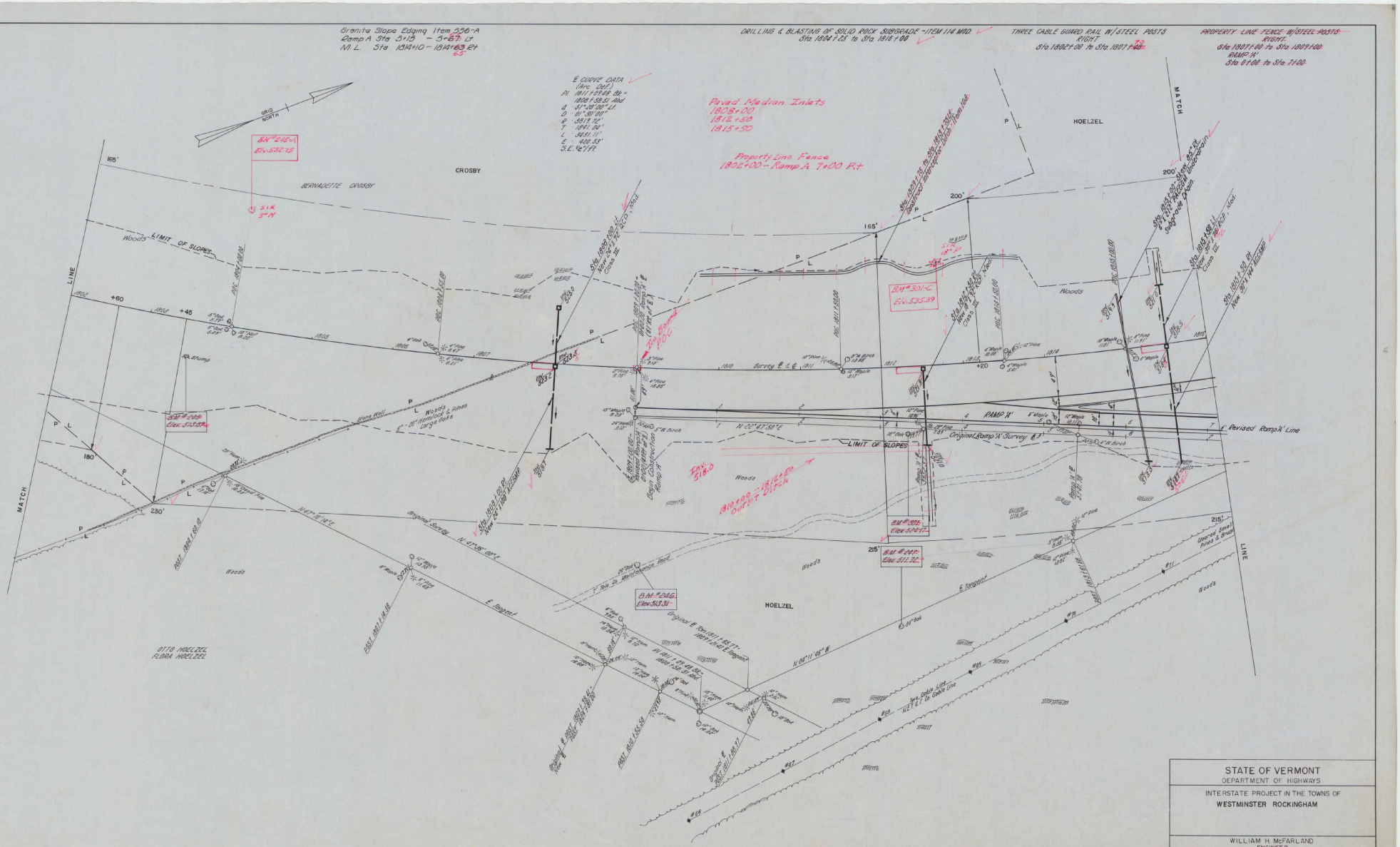
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
PROFILE
STA. 1788+00 - STA. 1802+00

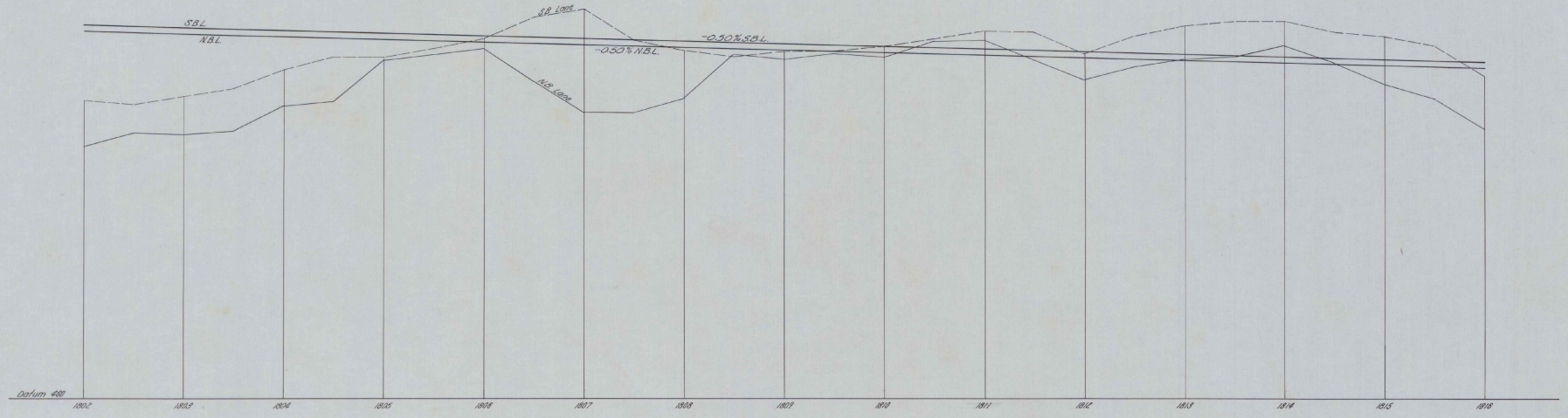
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE 1"=20' HOR. 1"=4' VERT.
DRAWN BY	IN CHARGE	DATE

PROJECT NO. 191-1(15)
CONTRACT NO. 4

SHEET 18 OF 114


Granite Slope Edging Item 556-A
Ramp A Sta 5+13 – 5+67 Lt
N.L. Sta 1814+10 – 1814+63 Rt
DRILLING & BLASTING OF SOLID ROCK SUBGRADE - ITEM 114 MOD
Sta 1804+05 to Sta 1816+00
THREE CABLE GUARD RAIL W/STEEL POSTS
RIGHT
Sta 1802+00 To Sta 1807+70
PROPERTY LINE FENCE W/STEEL POSTS
RIGHT
Sta 1807+60 to Sta 1809+00
RAMP H
Sta 0+00 to Sta 7+00
℄ CURVE DATA
(Arc Def.)
Pt. 1811+01.68 Bk =
1808+98.51 Ahd
Δ 51°38'00" Lt.
D 81°30'00"
R 359.13'
T 1891.04'
L 807.11'
E 809.53'
S.E. 16°/ft
Paved Median Inlets
1808+00
1812+50
1815+50
Property Line Fence
1802+00 – Ramp A 7+00 Rt
GRID NORTH
B.M. # 215-A
Elev. 532.73
SIR
SIP
CROSBY
BERNADETTE CROSBY
HOELZEL
MATCH LINE
Woods
LIMIT OF SLOPES
Stone Wall
Woods & Pines
Heritage Large Oaks
B.M. # 246
Elev. 513.53
B.M. # 301-C
Elev. 535.39
Sta. 1808+00 Rt
Survey ℄ ℄ 1811
Sta. 1812+50 Rt
Survey ℄ ℄ 1811
Sta. 1815+50 Rt
New 36"x14" RCP/ERC
Class III
Sta. 1815+50 Rt
New 36"x14" RCP/ERC
Class III
Sta. 1815+50 Rt
New 36"x14" RCP/ERC
Sta. 1808+00 Rt
Survey ℄ ℄ 1811
Sta. 1808+00 Rt
New 24" RCP/ERC
Class III
Sta. 1808+00 Rt
New 24



STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

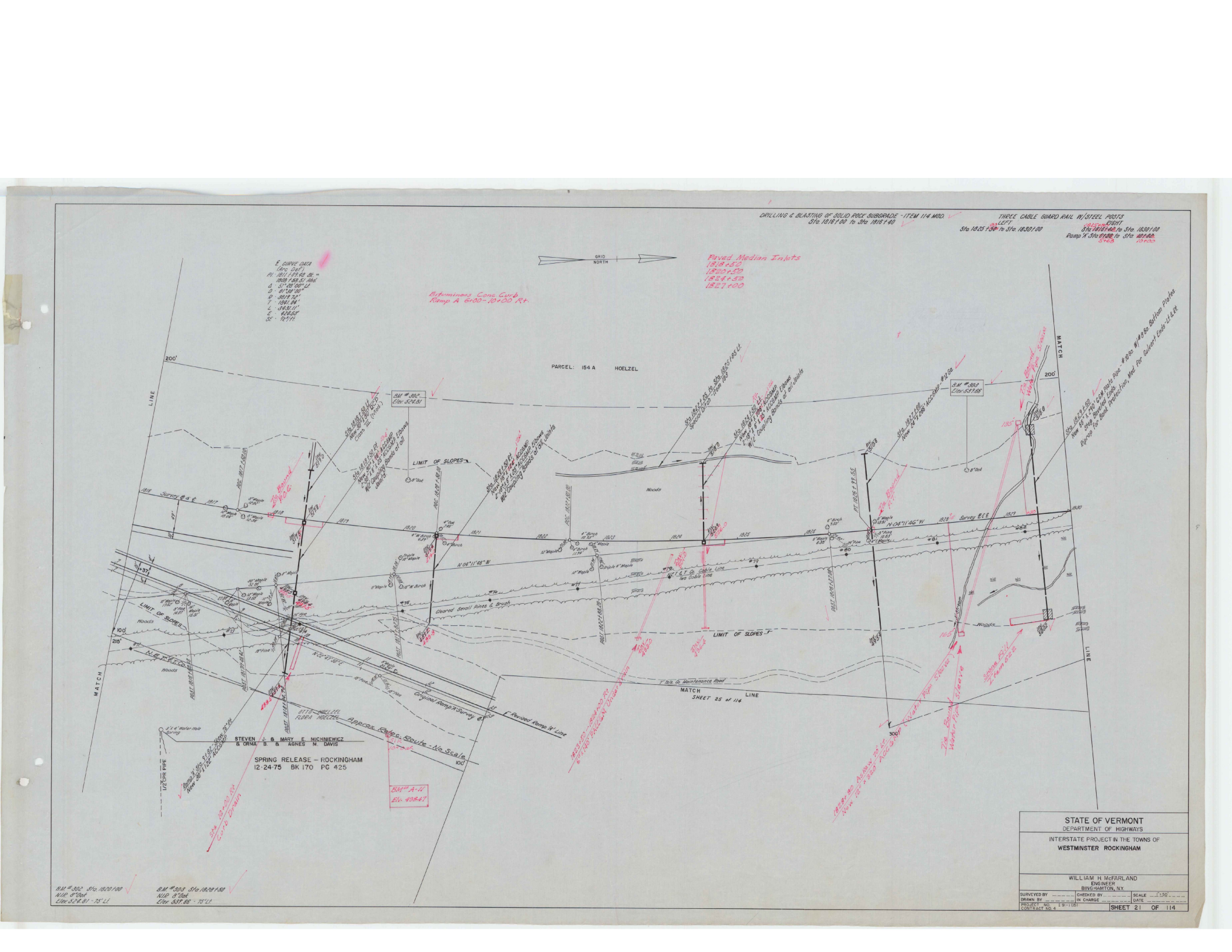
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
PROFILE
STA. 1802+00-STA. 1816+00

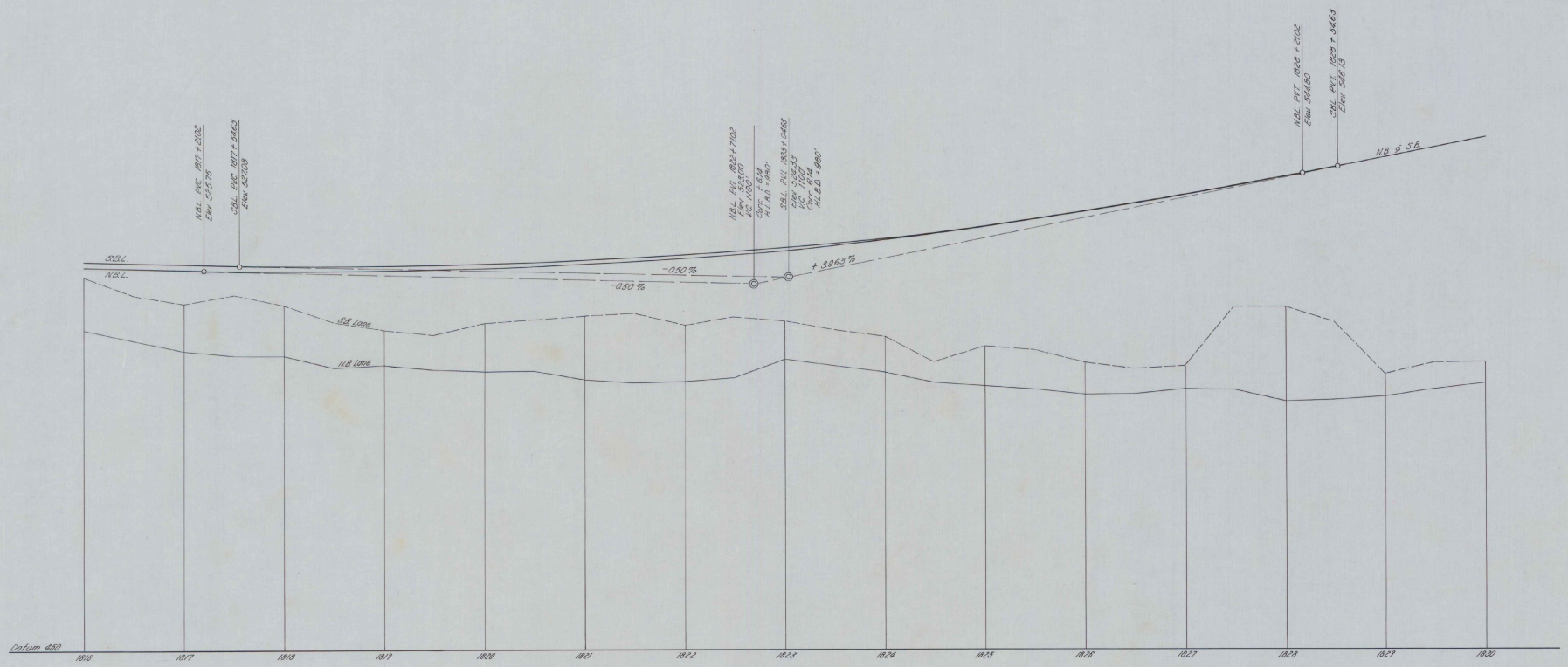
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE 1"=50' H. 1"=5' V.
DRAWN BY	IN CHARGE	DATE

PROJECT NO. I 91-1(15)
CONTRACT NO. 4

SHEET 20 OF 114


DRILLING & BLASTING OF SOLID ROCK SUBGRADE - ITEM 114 MOD.
Sta 1818+00 to Sta 1818+40
THREE CABLE GUARD RAIL W/STEEL POSTS
LEFT
Sta 1825+50 to Sta 1830+00
RIGHT
Sta 1818+62 to Sta 1820+08
Ramp 'A' Sta 0+00 to Sta 10+00
GRID NORTH
Paved Median Inlets
1818+52
1820+52
1824+32
1827+00
Bituminous Conc. Curb
Ramp A 6+00 - 10+00 Rt.
PARCEL: 154 A HOELZEL
LIMIT OF SLOPES
Woods
Cleared Small Pines & Brush
MATCH LINE
SHEET 25 of 114
Original Ramp 'A' Survey
Revised Ramp 'A' Line
7' Talu to Maintenance Road
STEVEN J. & MARY E. MICHNIEWICZ
& ORMA B. & AGNES M. DAVIS
SPRING RELEASE - ROCKINGHAM
12-24-75 BK 170 PG 425
Approx. Bike Route - No Scale
B.M. #302
Elev 524.91
B.M. #303
Elev 537.88
B.M. A-IV
Elev. 435.47
Survey ℄
N 04°11'48" W
N 02°47'30" E
Stone Fill
Stone Paving
Guard Fence
Rip-rap
Slope Paving
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.
SURVEYED BY
DRAWN BY
CHECKED BY
IN CHARGE
SCALE 1" = 50'
DATE
PROJECT NO. I 9-1151
CONTRACT NO. 4
SHEET 21 OF 114

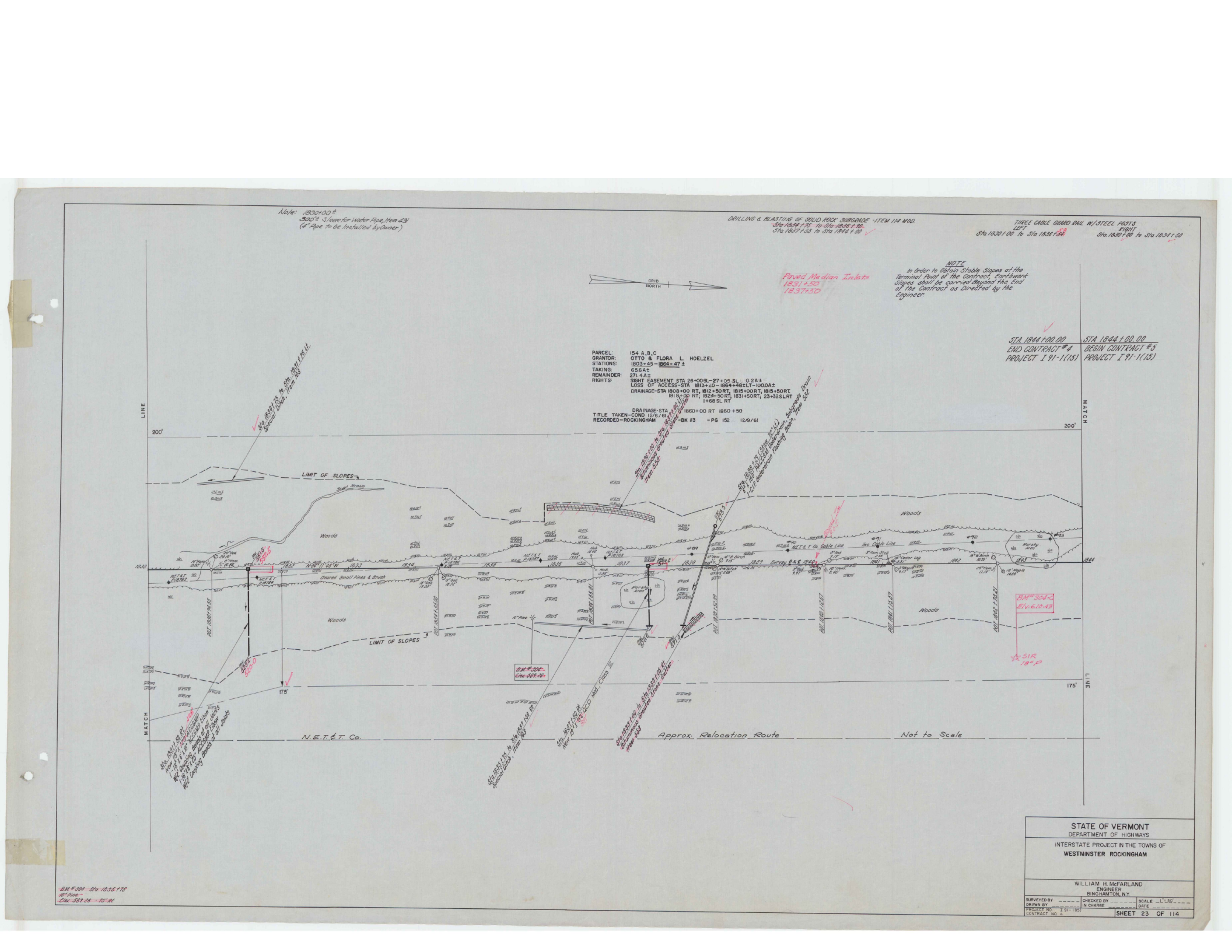


STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
PROFILE
STA. 1816+00-STA.1830+00

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE 1" = 50' Hor. 1" = 5' Vert.
DRAWN BY	IN CHARGE	DATE
PROJECT NO. 191-1(15)		
CONTRACT NO. 4		SHEET 22 OF 114

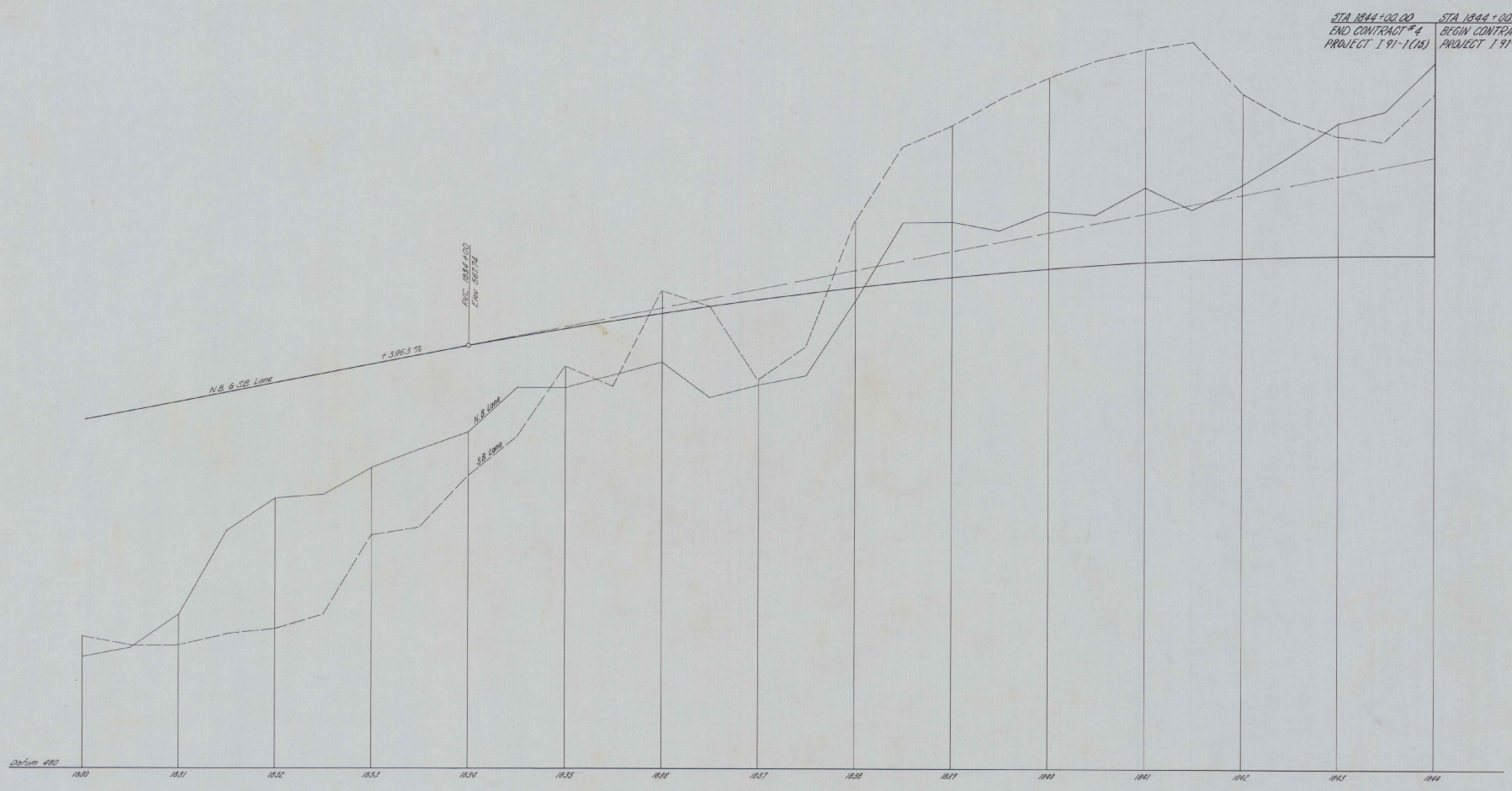


STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 1"=50'
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(15)
CONTRACT NO. 4

SHEET 23 OF 114

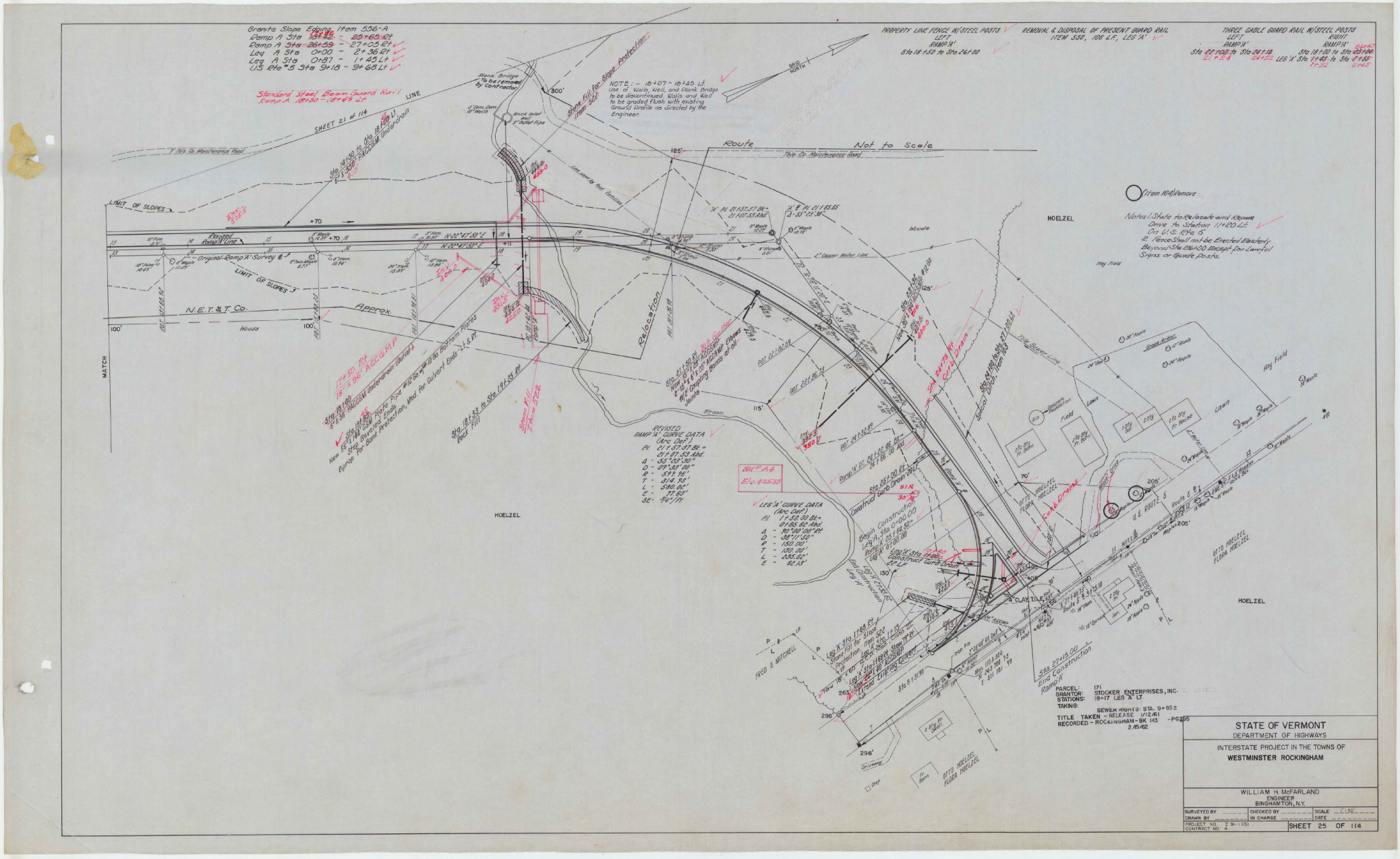


STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
PROFILE
STA.1830+00 – STA.1844+00

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE 1" = 10' HOR. 1" = 10' VER.
DRAWN BY	IN CHARGE	DATE
PROJECT NO. I 91-1(15)		
CONTRACT NO. 4		SHEET 24 OF 114


Granite Slope Edging Item 536-A
Ramp A Sta 18+42 - 28+65 Rt
Ramp A Sta 26+59 - 27+05 Rt
Leg A Sta 0+00 - 2+36 Rt
Leg A Sta 0+87 - 1+45 Lt
US Rte 5 Sta 9+18 - 9+68 Lt
Standard Steel Beam Guard Rail Ramp A 18+30 - 18+49 Lt
SHEET 21 of 114
Sta 18+90 to Sta 18+50 Lt 30' x 3'0" R.C.B.C.M. Underdrain
Stone Fill for Slope Protection Item 522
Brick Inlet 4'0" x 6' Outlet Pipe
Point Bridge to be removed by Contractor
NOTE:- 18+07 - 18+45 Lt. Use of Walls, Keel, and Plank Bridge to be discontinued. Walls and Keel to be graded Flush with existing Ground. Drafile as directed by the Engineer.
GRID NORTH
Not to Scale
Rte. 5
Rte. 5A
Tow. Co. Maintenance Road
Tow. Co. Maintenance Road
LIMIT OF SLOPES
Ramp A Line
Original Ramp A Survey
LIMIT OF SLOPES
N.E.T. & T. Co.
Approx.
MATCH LINE
Woods
Relocation
Stone Fill for Slope Protection Item 522
Sta 18+90 to Sta 19+30 Rt 18"ø RCCSMP Underdrain Outlets
Sta 19+30 New 60'-0" 24"ø CSP Apron Beveled Ends Riprap Rock Slope Protection, Mod. For Culvert Ends
Sta 18+33 to Sta 19+33 Rt Rock Fill
Stream Fill Item 522
Sta 21+50 Rt 24"ø RCCSMP Elbows w/2 Coupling Bands at Joints
RAMP 'A' CURVE DATA (Arc Def.)
PI 21+57.37 Bk = 21+97.53 Ahd.
Δ - 55°23'30"
D - 09°58'00"
R - 573.76'
T - 314.93'
L - 580.92'
E - 77.83'
SE - 94'/hr.
LEG 'A' CURVE DATA (Arc Def.)
PI 1+32.00 Bk = 0+65.04 Ahd.
Δ - 90°00'00" Rt
D - 38°11'50"
R - 150.00'
T - 150.00'
L - 235.62'
E - 82.13'
Begin construction Leg A Sta 0+00.00 Ramp A Sta 21+64.93 = 148.93' Ahd. 12 LF
Sta 2+24 Sta 2+80 Construct Curb Drain
Sta 2+87 to Sta 1+42 Lt Construct Curb Drain
Sta 27+15.00 End Construction Ramp A
Sta 5+31.90
Sta 1+68 Lt
Sta 1+63 Lt
Sta 1+22 Lt
Sta 0+87 Lt
Sta 0+00
Leg 'A' Sta 1+68 Rt Stone Fill for Slope Protection Item 522
Leg A Sta 1+63 Rt to Sta 1+22 Lt 18"ø RCCSMP Underdrain
Leg A Sta 1+22 Lt to Sta 0+87 Lt 18"ø RCCSMP Stone Fill Item 522
Leg A Sta 0+87 Lt to Sta 0+00 18"ø RCCSMP Underdrain
Leg A Sta 0+00 to Sta 0+87 Rt 18"ø RCCSMP Underdrain
Sta 0+87 Rt to Sta 1+22 Rt Stone Fill Item 522
Sta 1+22 Rt to Sta 1+63 Rt 18"ø RCCSMP Underdrain
Sta 1+63 Rt to Sta 1+68 Rt Stone Fill Item 522
Sta 1+68 Rt to Sta 5+31.90 18"ø RCCSMP Underdrain
Sta 5+31.90 Rt to Sta 9+18 Stone Fill Item 522
Sta 9+18 to Sta 9+68 Rt 18"ø RCCSMP Underdrain
Sta 9+68 Rt to Sta 27+15.00 Stone Fill Item 522
Sta 18+90 to Sta 19+30 Rt 18"ø RCCSMP Underdrain
Sta 19+30 to Sta 21+50 Rt Stone Fill Item 522
Sta 21+50 Rt to Sta 27+15.00 Rt Stone Fill Item 522
PROPERTY LINE FENCE W/STEEL POSTS LEFT RAMP 'A' Sta 18+30 to Sta 26+00
REMOVAL & DISPOSAL OF PRESENT GUARD RAIL ITEM 530, 106 L.F., LEG 'A'
THREE CABLE GUARD RAIL W/STEEL POSTS LEFT RAMP 'A' Sta 22+02 to Sta 24+10 Leg 'A' Sta 0+87 to Sta 2+32
THREE CABLE GUARD RAIL W/STEEL POSTS RIGHT RAMP 'A' Sta 18+00 to Sta 20+46 Leg 'A' Sta 1+45 to Sta 2+32
Item 104 Remove
Notes: 1. State to Relocate and Remove Drive to Station 1+20 Lt. On U.S. Rte 5
2. Fences Shall not be Erected Easterly Beyond Sta 26+00 Except for Lawful Signs or Guide Posts.
HOELZEL
Hay Field
Lawn
Field
Sewer Line
Otto Hoelzel Flora Hoelzel
Fred B. Mitchell
Gravel Drive
U.S. Route 5
Route 5 & 5A
Sta 27+15.00 End Construction Ramp A
PARCEL: 171
GRANTOR: STOCKER ENTERPRISES, INC.
STATIONS: 18+17 LEG 'A' LT
TAKING: SEWER RIGHTS: STA. 9+85 ±
TITLE TAKEN - RELEASE 1/12/61
RECORDED - ROCKINGHAM - BK. 143 - PG. 285
2/15/62
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.
SURVEYED BY
DRAWN BY
CHECKED BY
IN CHARGE
SCALE 1" = 50'
DATE
PROJECT NO. I 91-1(15)
CONTRACT NO. 4
SHEET 25 OF 114



STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

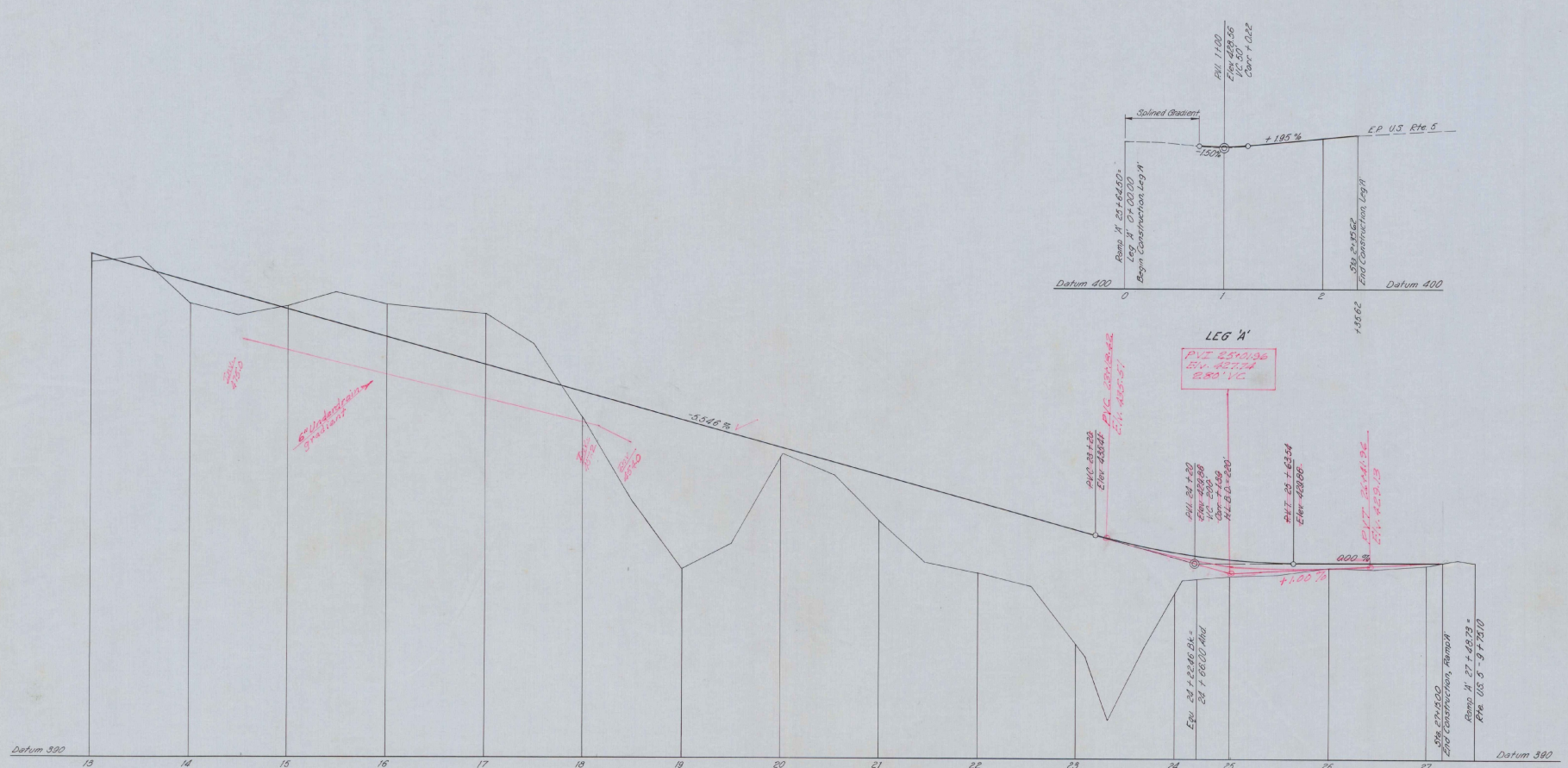
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
RAMP 'A' PROFILE

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE 1" = 10 VERT.
DRAWN BY	IN CHARGE	DATE

PROJECT NO. I 91-1(15)
CONTRACT NO. 4

SHEET 26 OF 114



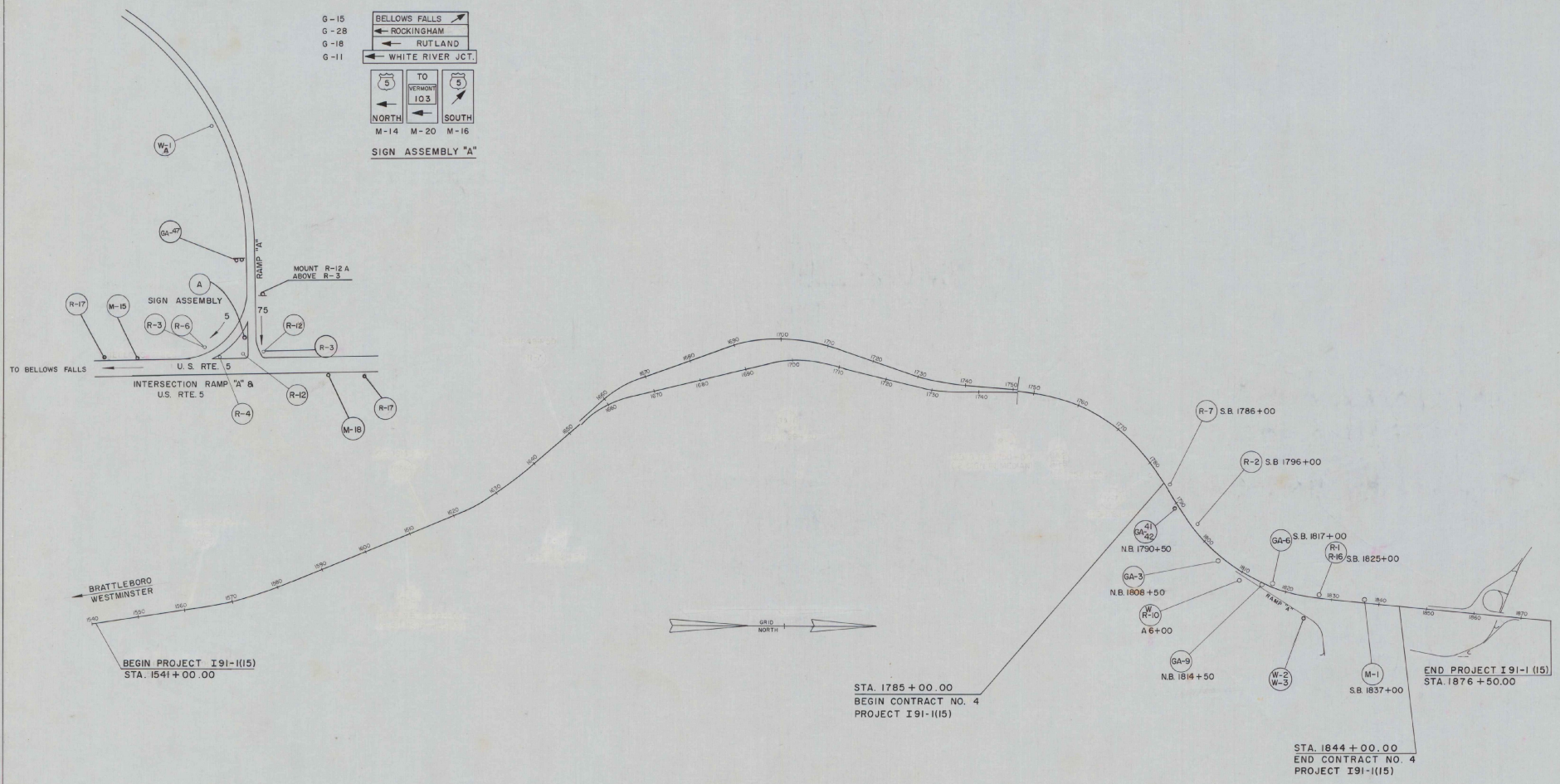
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM
RAMP 'A' PROFILE

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 1" = 50' HOR. 1" = 5' VERT.
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I-91-1(15)
CONTRACT NO. 4

SHEET 27 OF 114



APPROXIMATE SIGN LOCATIONS:
FOR MINIMUM VERTICAL AND HORIZONTAL
SIGN CLEARANCES SEE SHEET E-7

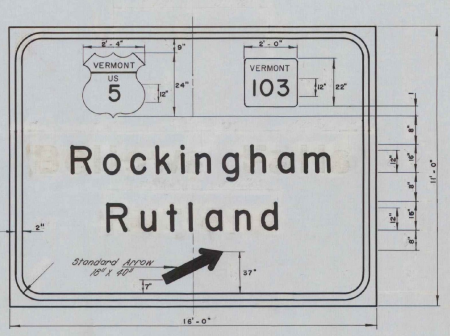
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

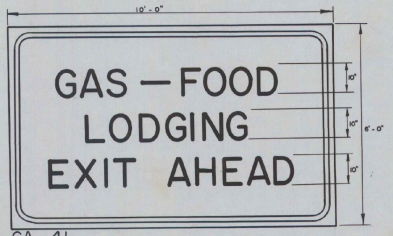
TRAFFIC SIGN LOCATION PLAN

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE 1" = 1000'
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(15)
CONTRACT NO. 4



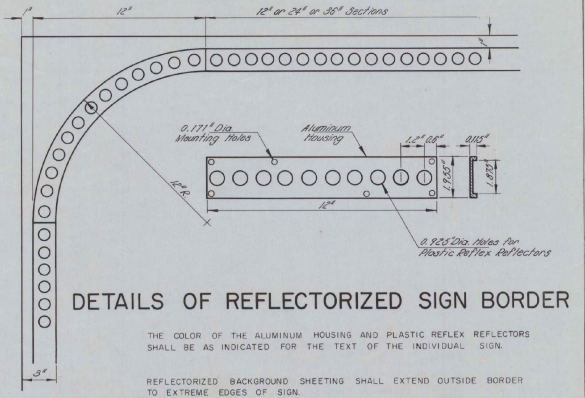
GA-3



GA-41



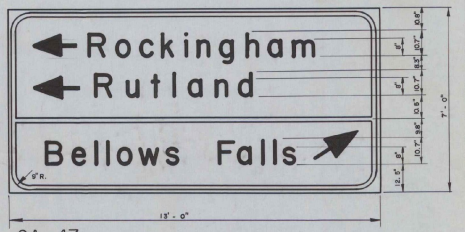
GA-42



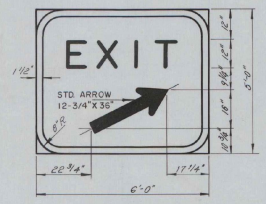
DETAILS OF REFLECTORIZED SIGN BORDER

THE COLOR OF THE ALUMINUM HOUSING AND PLASTIC REFLEX REFLECTORS SHALL BE AS INDICATED FOR THE TEXT OF THE INDIVIDUAL SIGN.

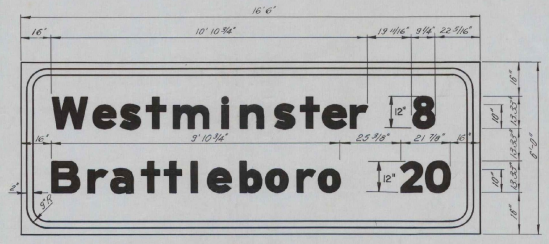
REFLECTORIZED BACKGROUND SHEETING SHALL EXTEND OUTSIDE BORDER TO EXTREME EDGES OF SIGN.



GA-47



GA-9



GA-6

ROUTE MARKERS ON "GA" SIGNS SHALL BE MADE ON FLAT SHEET ALUMINUM AND HAVE THE SAME COLORS AND RE-FLECTORIZATION AS WHEN USED IN SEPARATE INSTALLATIONS.

TEXT OF ALL GUIDE SIGNS ON THIS SHEET IS REFLECTORIZED WHITE. ALL BACKGROUNDS ARE REFLECTORIZED GREEN EXCEPT GA-41 AND GA-42 WHICH HAVE (3) COATS OF BLUE ENAMEL.

TEXT OF ALL GA SIGNS IS COMPOSED OF PLASTIC REFLEX REFLECTORS.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

TRAFFIC SIGNS
DESIGN AND CONSTRUCTION DETAILS

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY _____ CHECKED BY _____ SCALE NONE
DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(10)
CONTRACT NO. 4

EXTRUDED ALUMINUM PANEL GUIDE SIGNS (ITEM 576)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	SIZE AND TYPE OF POST	NUMBER OF SIGNS REQUIRED
GA-3	16'-0"	11'-0"	5 103 ROCKINGHAM RUTLAND	10 WF 25	1
GA-6	16'-__"	6'-0"	WESTMINSTER 8 BRATTLEBORO 20	8 WF 17	1
GA-9	6'-0"	5'-0"	EXIT	4 I 9.5	1
GA-41	10'-0"	6'-0"	GAS — FOOD LODGING EXIT AHEAD	6 WF 15.5	1
GA-42	10'-0"	2'-6"	TELEPHONE	MOUNT BELOW GA-21	1
GA-47	13'-0"	7'-0"	ROCKINGHAM RUTLAND BELLOWS FALLS	8 WF 17	1

FLAT SHEET ALUMINUM SIGNS (ITEM 577)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	SIZE AND TYPE OF POST	NUMBER OF SIGNS REQUIRED
R-3	24"	24"	DO NOT ENTER		3
R-4	24"	30"	KEEP RIGHT	4U5.4	1
R-12	30"	30"	THRU STOP WAY	4U5.4	2
M-1	30" 36"	15" 36"	SOUTH 91	5U6.7	1
M-14	18" 24" 18"	9" 24" 12"	NORTH 5		1
M-16	18" 24" 18"	9" 24" 12"	SOUTH 5		1
M-20	18" 20" 18"	9" 18" 12"	TO VERMONT 103		1
W-1 A	36"	36"	STOP AHEAD	4x3 1/2x5/16 4U5.4 ANGLE	1
W-2	36"	36"		4x3 1/2x5/16 ANGLE	1
W-3	24"	24"	35 M.P.H.	MOUNT BELOW W-2	1
R-12 A	30"	30"	STOP	4x3 1/2x5/16 ANGLE	1
M-15	18" 24" 18"	9" 24" 12"	SOUTH 5	4 U 5.4	1
M-48	18" 24" 18"	9" 24" 12"	NORTH 5	4 U 5.4	1

HIGH DENSITY OVERLAID PLYWOOD SIGNS (ITEM 575)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	POST SIZE WITH 12" D. TYPE A FOOTING	NUMBER OF SIGNS REQUIRED
R-1	48"	60"	SPEED LIMIT 65	4 WF 13 (2 Posts)	1
R-2	48"	60"	KEEP RIGHT EXCEPT TO PASS	4 I 9.5 (2 Posts)	1
R-6	60" Sides		YIELD RIGHT OF WAY	5 U 6.7	1
R-7	48"	60"	NO STOPPING EXCEPT FOR REPAIRS	4 I 9.5 (2 Posts)	1
W-10	48"	60"	EXIT 35 M.P.H.	4 I 9.5 (2 Posts)	1
R-16	48"	48"	MINIMUM 40	MOUNT BELOW R-1	1
G-11	7'-0"	10"	WHITE RIVER JCT.	4 WF 13	1
G-15	6'-0"	10"	BELLOWS FALLS		1
G-18	6'-0"	10"	RUTLAND		1
G-28	6'-0"	10'-0"	ROCKINGHAM		1
R-17	4'-0"	5'-0"	SPEED LIMIT 50 STATE OF VERMONT	4 I 9.5 2 POSTS	2

GENERAL NOTES

1. IDENTIFICATION OF SIGNS

TRAFFIC SIGNS ARE IDENTIFIED BY A NUMBER PREFIXED BY A LETTER TO INDICATE THE FOLLOWING GENERAL CLASSIFICATIONS:

GA - LARGE SIZE GUIDE SIGNS.
G - OTHER GUIDE SIGNS.
R - REGULATORY SIGNS.
W - WARNING SIGNS.

TRAFFIC SIGN ASSEMBLIES ARE IDENTIFIED BY A LETTER, AS "SIGN ASSEMBLY A". THE INDIVIDUAL SIGNS FORMING AN ASSEMBLY ARE IDENTIFIED BY THEIR INDIVIDUAL SIGN NUMBERS.

2. SIGN DESIGNS

THE LAYOUTS OF THE VARIOUS SIGNS, INCLUDING THE COLORS OF THE BACKGROUNDS AND TEXTS, SHALL BE AS INDICATED ON THE STANDARD SHEETS SHOWING SIGN DESIGN DETAILS.

3. INTERSTATE ROUTE MARKER

THE DESIGN AND COLORS OF THE INTERSTATE ROUTE MARKER SHALL CONFORM WITH THE STANDARDS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS AND APPROVED BY THE U.S. BUREAU OF PUBLIC ROADS.

4. SIGN POSTS

THE SIZES AND TYPES OF POSTS REQUIRED FOR THE VARIOUS SIGNS ARE INDICATED ON THE SUMMARY SHEET. THE LENGTHS OF THE POSTS, IF NOT GIVEN ON THE PLANS, SHALL BE COMPUTED TO FIT FINAL SIGN LOCATIONS.

WHERE ROLLED STEEL STRUCTURAL SHAPES ARE CALLED FOR, COMPARABLE STRUCTURAL ALUMINUM SHAPES (ALLOY 6061-T6) MAY BE USED IN ACCORDANCE WITH THE FOLLOWING TABLES:

STEEL	ALUMINUM	TYPE FOOTING
12 WF 31	12" X 14.1 LBS.	B
12 WF 27	12" X 12.1 LBS.	B
10 WF 25	12" X 10.3 LBS.	B
10 WF 21	10" X 9.7 LBS.	B
8 WF 17	9 X 7.5 LBS.	A
4 WF 13	8" X 4.3 LBS.	A-12" D. x 6'
4 I 9.5	6" X 3.0 LBS.	A-12" D. x 5'

5. CHANNELS SHALL HAVE 34 HOLES 7/16" DIAM. 2" CENTER TO CENTER ON THE FACE, STARTING ONE INCH FROM THE TOP FOR MOUNTING SIGNS. 3 1/2" FACE OF ANGLES DRILLED THE SAME.

6. SIGN POST FOOTINGS

THE TYPE OF CONCRETE FOOTING TO BE USED FOR A SIGN SHALL BE AS INDICATED ON THE PLANS. WHEN CONCRETE FOOTINGS ARE NOT REQUIRED, SIGN POSTS SHALL BE SET IN THE GROUND TO THE FOLLOWING MINIMUM DEPTHS UNLESS OTHERWISE SHOWN ON THE PLANS:

POST SIZE	MIN. DEPTH
4 WF 13	6 FT.
4 WJ 8.5	5 1/2 FT.
4 I 9.5	5 FT.
4 U 5.4 X 15'	5 FT.
4 U 5.4 X 16'	4 1/2 FT.
4 U 5.4 X 14'	4 1/2 FT.
4 U 5.4 X 12'	4 FT.
4 U 5.4 X 10'	3 1/2 FT.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

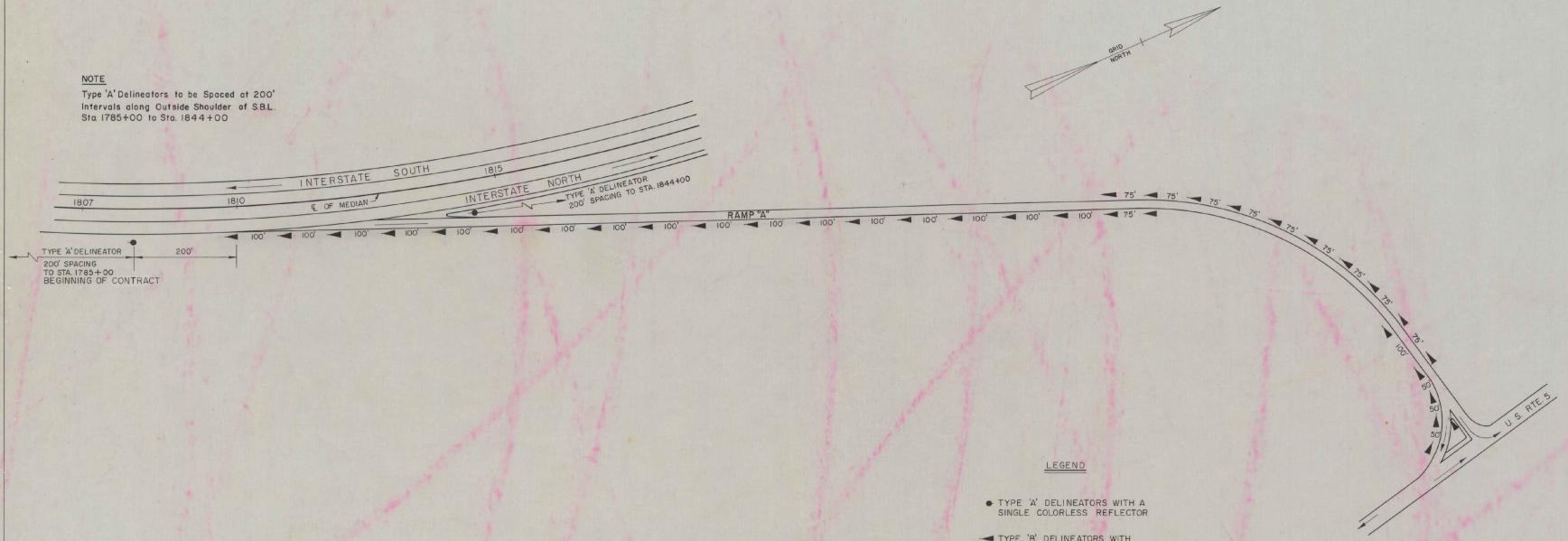
INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

TRAFFIC SIGNS
SUMMARY AND GENERAL NOTES

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

SURVEYED BY	CHECKED BY	SCALE - NONE
DRAWN BY	IN CHARGE	DATE
PROJECT NO. 291-1(15) CONTRACT NO. 4		SHEET 30 OF 114 SHEETS

NOTE
Type 'A' Delineators to be Spaced at 200' Intervals along Outside Shoulder of S.B.L. Sta. 1785+00 to Sta. 1844+00



LEGEND

● TYPE 'A' DELINEATORS WITH A SINGLE COLORLESS REFLECTOR

◄ TYPE 'B' DELINEATORS WITH TWO YELLOW REFLECTORS.

FOR DESIGN AND GENERAL LOCATION DETAILS SEE ROADWAY STANDARD E-8

STANDARD SHEET E-8 MODIFICATION: DELINEATOR POSTS TO HAVE A MINIMUM WEIGHT OF 1.3 LBS. PER FT. AND 16 HOLES PUNCHED ON 1" CENTERS.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF
WESTMINSTER ROCKINGHAM

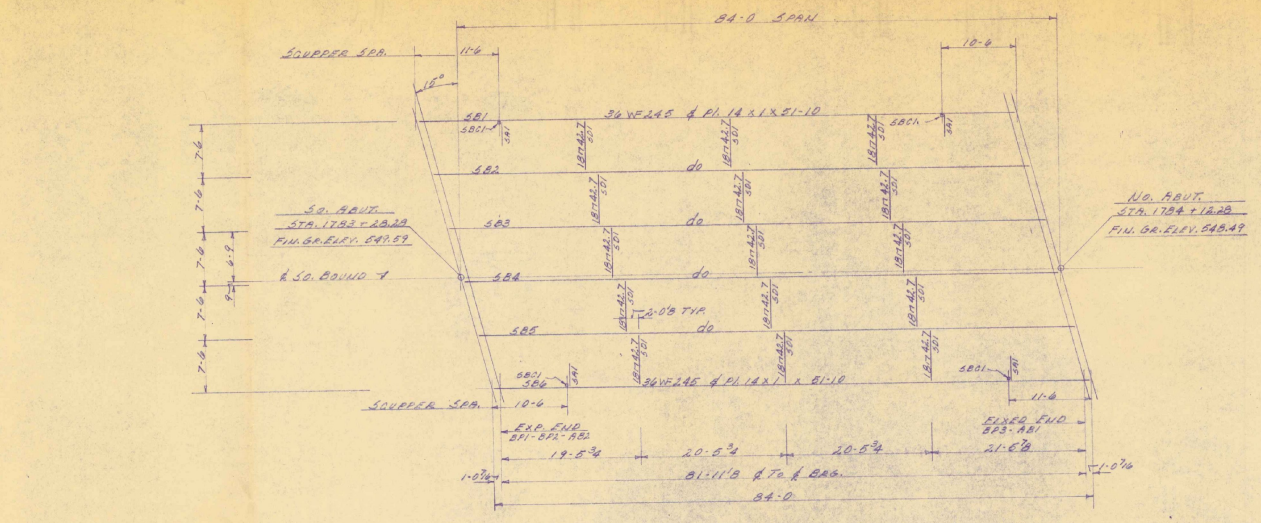
DELINEATOR
LOCATION PLAN

WILLIAM H. McFARLAND
ENGINEER
BINGHAMTON, N.Y.

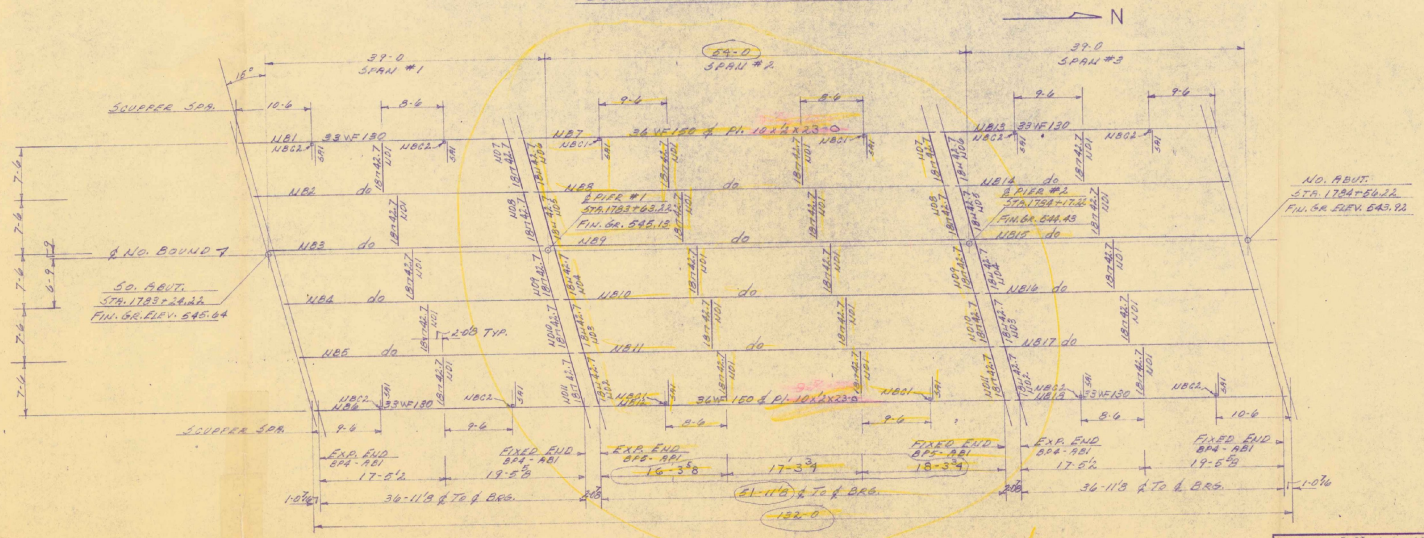
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DRAWN BY _____ IN CHARGE _____ DATE _____
PROJECT NO. I 91-1(85)
CONTRACT NO. 4

SHEET 31 OF 114

Westminster - Rockingham
I 91-1-(15)C.H



SOUTHBOUND PLACEMENT PLAN



NORTHBOUND PLACEMENT PLAN

Span 2 only

Bind with Bridge Tracings

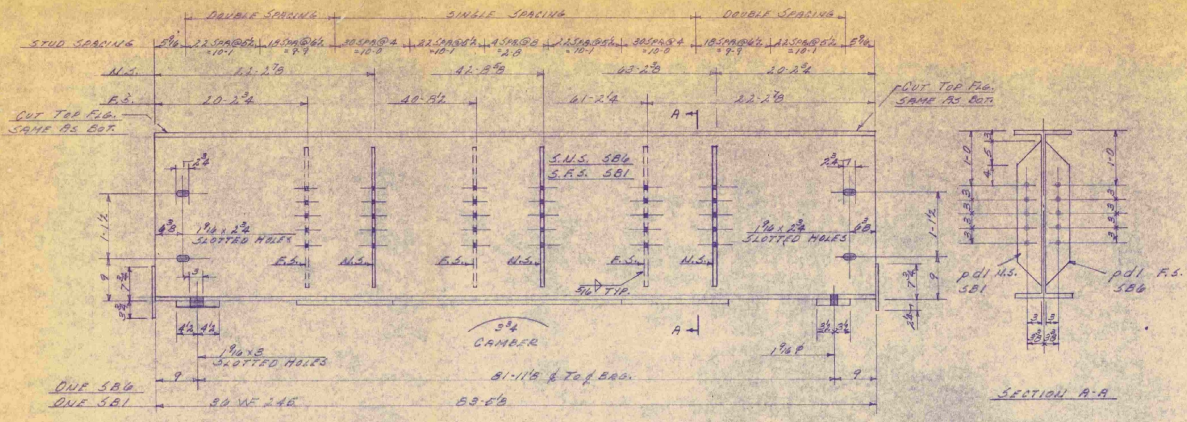
Rev. By VT ST. 6-20-62

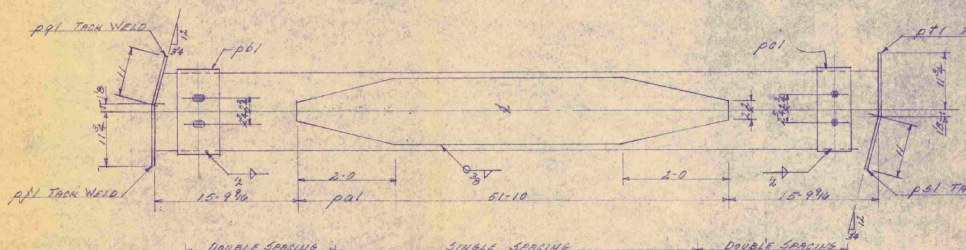
VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, Vt.

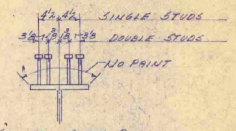
		DATE
DRAWN BY	K.T.	6-18-62
CK'D BY		
HOLES		
BITS & WRENCH	CUT SHEET	

PROJECT WESTMINSTER INT. I 91-1 (15) Const. #3
LOCATION WESTMINSTER, VT.
CUSTOMER L. LANE CONST. CORP.
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS
JOB NO. 62-526 SHEET NO. P1

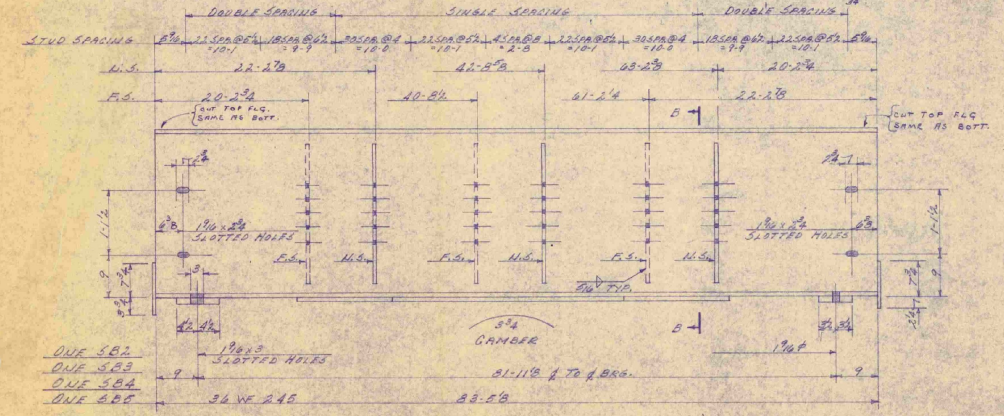
PRINT RECORD		
NO.	FOR	DATE
4	SHOP	6-18
5	CUST.	6-25
6	APP.	7-26

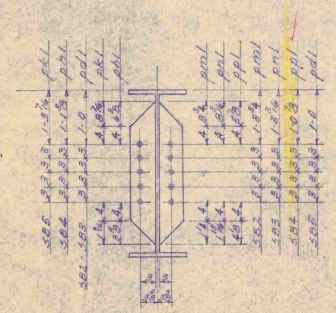




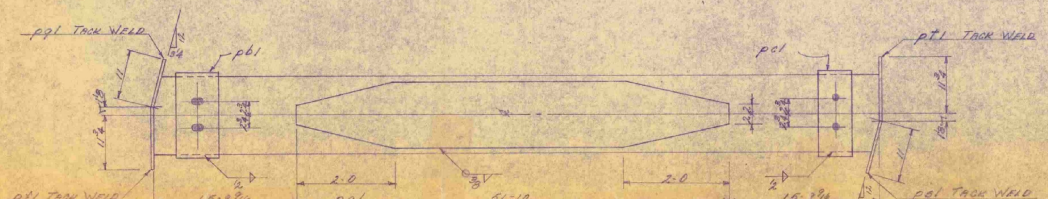


SHEAR STUD DETAIL





SECTION B-B



BILL OF MATERIAL

(20)

NO. PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.	WEIGHT
		SEAMS			
1	SB1	36 WF 245	82	6½	
1	SB2	do	82	6½	
1	SB3	do	82	6½	ORD 83-4
1	SB4	do	82	6½	B 60181
1	SB5	do	82	6½	
1	SB6	36 WF 245	82	6½	
4	pa1	Pl. 14 x 1	81	10	(20) 8 Pcs.
4	pb1	Sole Pl. 9 x 1½	1	6½	(20) 1 EA. SB1 & 2 (21) 1 EA. SB3 & 4
4	pc1	Sole Pl. 7 x 1	1	6½	(22) 1 EA. SB5 & 6
15	pd1	BAR 5 x ½	2	4	3 EA. SB1-2-3-4-5-6
3	pk1	do	2	4	SB4
3	pl1	do	2	4	SB5
3	pm1	do	2	4	SB2
3	pn1	do	2	4	SB3
3	pp1	BAR 5 x ½	2	4	SB1
4	ps1	Pl. 10 x ½	9	11	1 EA. SB4
4	pt1	Pl. 10½ x ½	1	8⅜	1 EA. SB4
4	pg1	Pl. 11 x ½	0	11½	1 EA. SB4
4	pt1	Pl. 10 x ¾	1	0⅜	1 EA. SB4
		¼" WELD	16	0	
		⅜" WELD	830	0	
		9/16" WELD	160	0	
		PAINT ½ OF 1 Pc.			
		CONT. 62-524-1			
3240		¾" WELDING STUDS	0	6½	

VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VT.

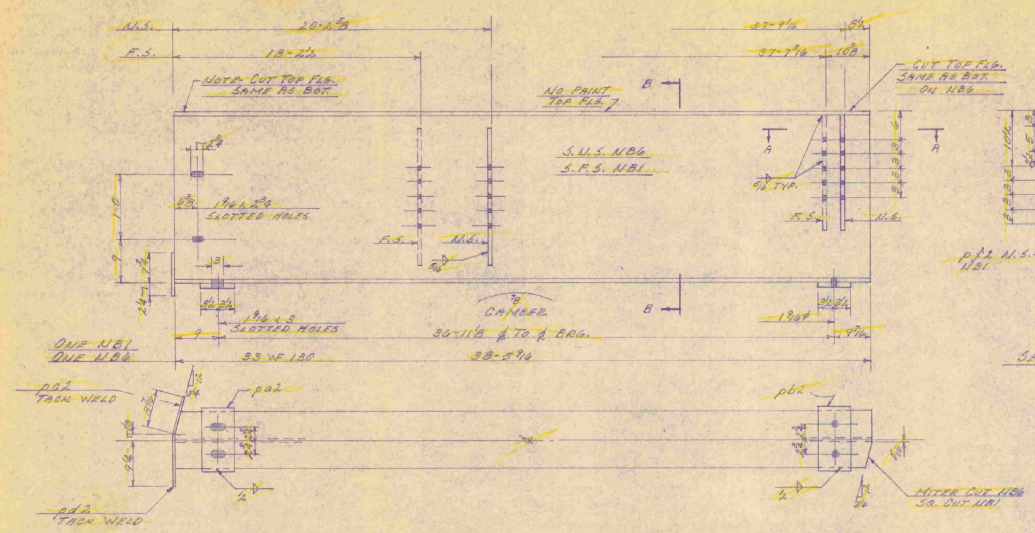
Approved 6/29/62

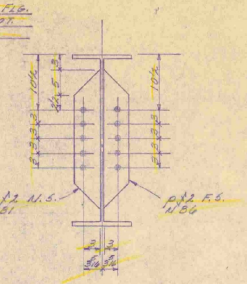
REF. 6-15-62, A.T.

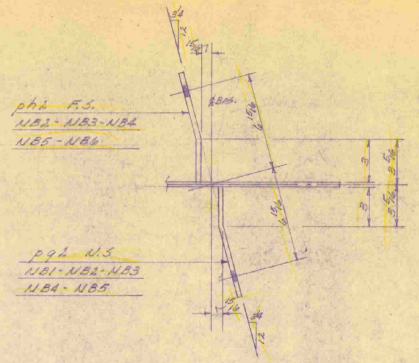
		DATE
DRAWN BY	A.T.	6-12-62
CK'D BY	TT	6-14
HOLES	[illegible] WETTER	
RIVETS		
PAINT	SPEED	

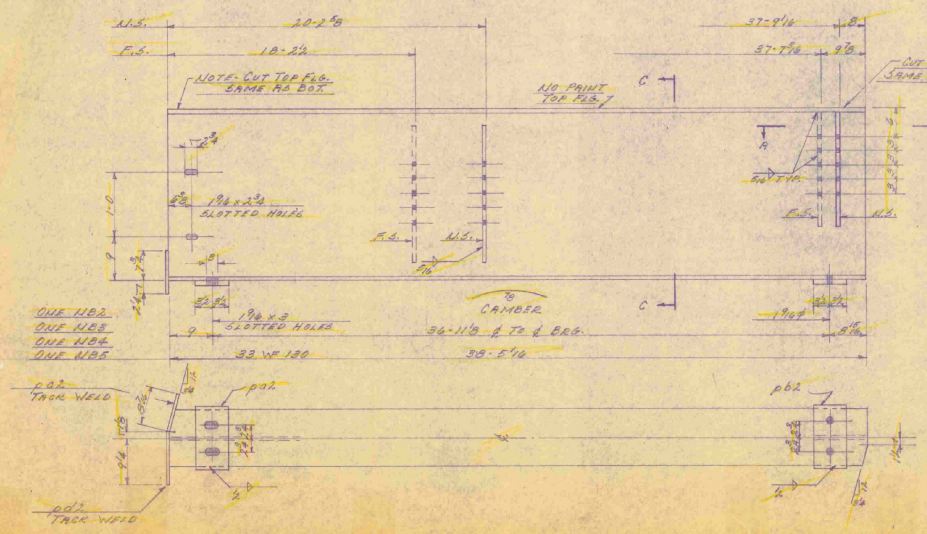
PROJECT WESTMINSTER INT. I 91-1(6) CONT. #3
LOCATION WESTMINSTER - VT.
CUSTOMER LANE CONST. CORP.
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS
JOB NO. 62-524 SHEET NO. 1
62-524-1 WELDING STUDS

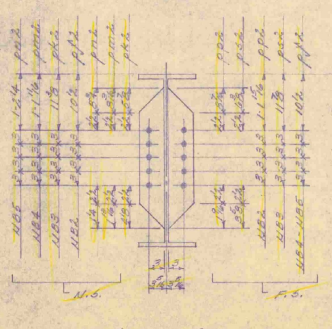
PRINT RECORD		
NO.	FOR	DATE
6	SHOP APP'D	6-18
5	SHOP APP'D	6-15











BILL OF MATERIAL

(5D)

NO. PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT
		BEAMS				
1	NB1	33 WF 130	38	5 9/16	ORD. 38-E	
1	NB2	do	38	5 1/16		
1	NB3	do	38	5 1/16	B EQ'L B1	
1	NB4	do	38	5 1/16	ORD. 38-4½	
1	NB5	do	38	5 1/16		
1	NB6	33 WF 130	38	5 9/16	ORD. 38-E	
6	pa2	SQUARE PL. 7 x 1	1	0 1/2	(50) REQ'D @ 26" (51) I PER BM.	
6	pb2	SQUARE PL. 7 x 1	1	0 1/2		
6	pc2	PL. 10 x 1/4	0	8 3/4	1 PER BM.	
4	pd2	PL. 10 x 1/2	0	10 5/8	1 PER BM.	
5	pk2	BAR 5 x 1/2	2	3	1 PER NB1-2-3-4-5&6	
1	pl2	do	2	3	NB3	
1	pm2	do	2	3	NB4	
1	pn2	do	2	3	NB5	
1	po2	do	2	3	NB2	
1	pp2	BAR 5 x 1/2	2	3	NB3	
6	pq2	PL. 5 x 1/2	2	0	1 PER NB1-2-3-4&5	
5	ph2	PL. 8 x 1/2	2	0	1 PER NB1-2-3-4&5	
		1/4" WELD	14	0		
		5/16" WELD	95	0		
		PAINT 4 OZ. 1 Pr.				

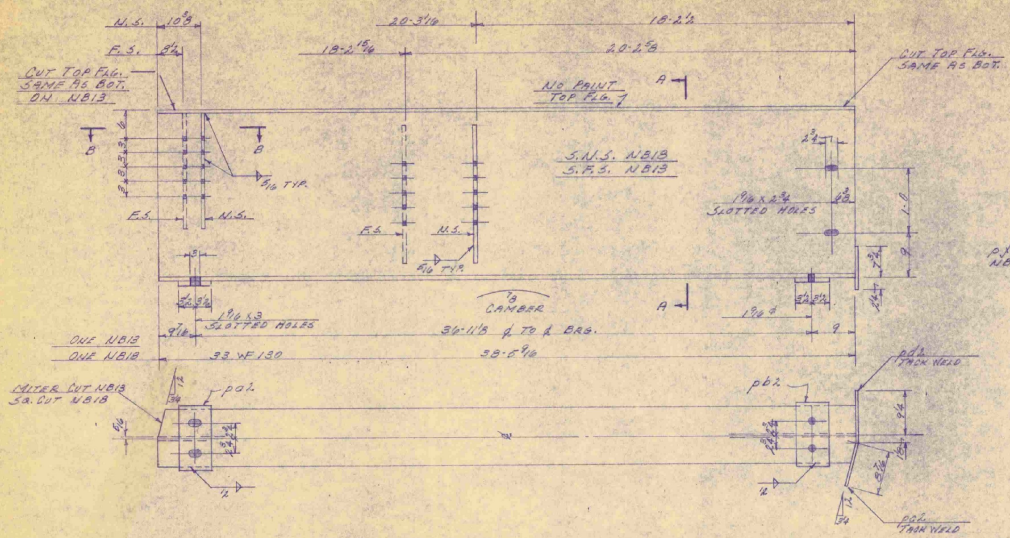
Approved 6/17/62

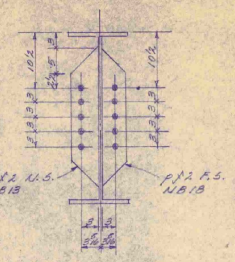
VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VT.

		DATE
DRAWN BY	A.J.	6-5-62
CH'D BY		6-8-62
HOLES	13/16" Ø & 1 3/16 SLOTS NOTED	
BEVELS		
PAINT	RED (VT. SPEC.)	

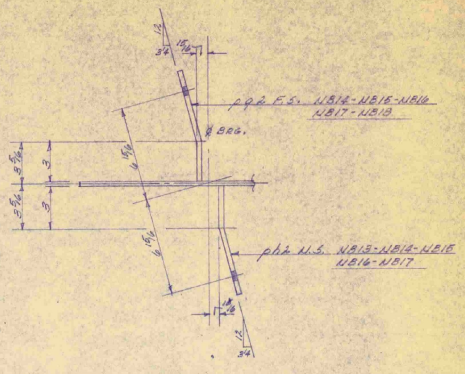
PROJECT WESTMINSTER INT. I 91-1(16) Cont. 5
LOCATION WESTMINSTER, VT.
CUSTOMER LANE CONST. CORP.
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS
JOB NO. 62-524
SHEET NO. 4

PRINT RECORD		
NO.	FOR	DATE
6D	REV'D BRD	6-8

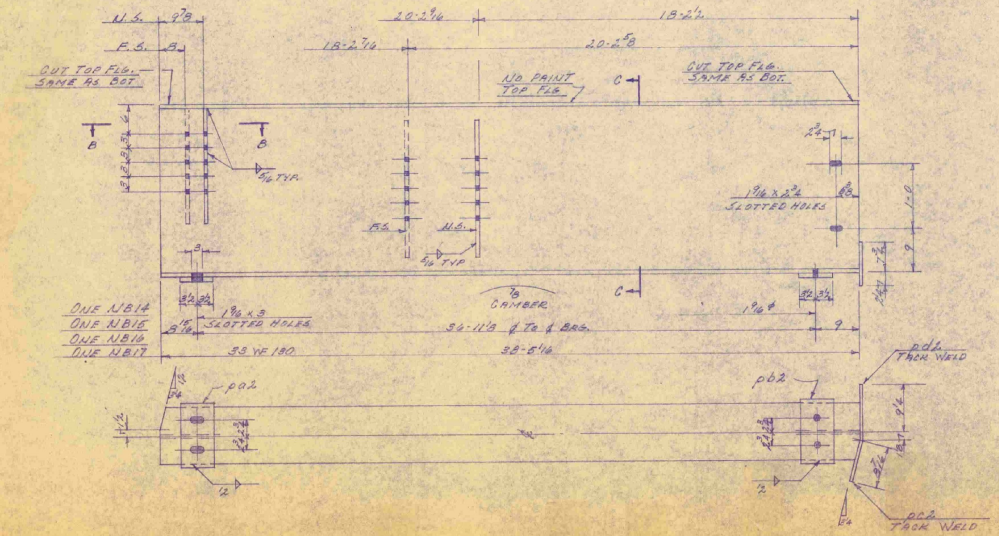


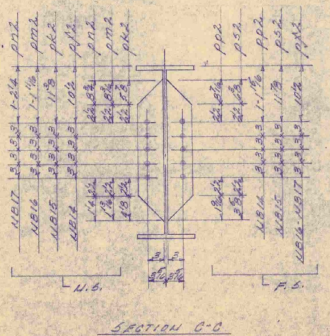


SECTION A-A



SECTION B-B





SECTION C-C

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT	
		BEAMS					
1	NB13	33 WF 130	38	6 9/16	ORD. 38-E		
1	NB14	do	38	6 1/16			
1	NB15	do	38	6 1/16	A E0IEI		
1	NB16	do	38	6 1/16	ORD. 38-4½		
1	NB17	do	38	6 1/16			
1	NB18	33 WF 130	38	6 9/16	ORD. 38-E		
6	pa2	Solr Pl. 7 x 1	1	0½	(4) Rec. @ 30°		
6	pb2	Solr Pl. 7 x 1	1	0½	(4) 1 EA. BM.		
6	pc2	Pl. 10 x 1/4	0	8 9/16	1 EA. BM.		
4	pd2	Pl. 10 x 1/4	2	10 3/16	1 EA. BM.		
5	pn2	BARE x ½	2	3	1 EA. NB13-14-15-16-18		
1	pk2	do	2	3	NB15		
1	pm2	do	2	3	NB14		
1	pn2	do	2	3	NB17		
1	pp2	do	2	3	NB14		
1	ps2	BARE x ½	2	3	NB15		
6	pq2	Pl. 8 x ½	2	0	1 EA. NB14-15-16-17-18		
6	pr2	Pl. 8 x ½	2	0	1 EA. NB13-14-15-16-17		
		½ in Weld	14	0			
		5/16 in Weld	95	0			
		PRINT ½ OF 1 7/16.					

VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VT.

REV. 6-12-62 K.T.

		DATE
DRAWN BY	K.T.	5-21-62
CYD. BY	H.F.	6-6-62

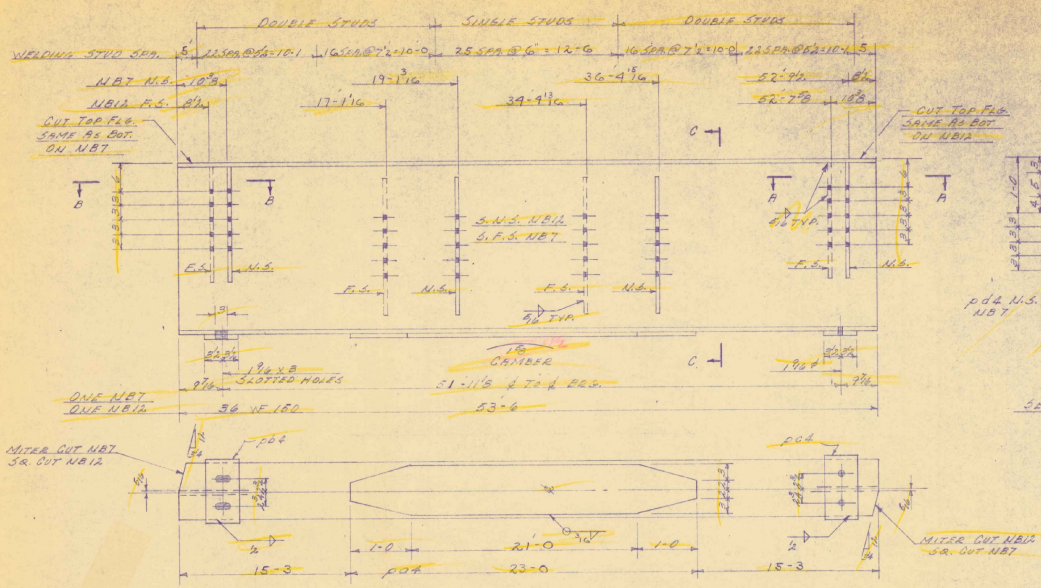
HOLES 11/16 Ø PUNCHED
RIVET Ø
PAINT 2 (VT. SPEC.)

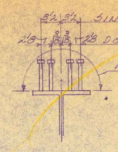
PROJECT WESTMINSTER INT. I-91(6) & 2
LOCATION WESTMINSTER, VT.
CUSTOMER LANE CONST. CORP.

ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS
JOB NO. 62-524 SHEET NO. 3

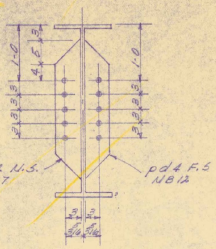
PRINT RECORD

NO.	FOR	DATE
6	SHOP APPD	6-8
3	FINISH	6-12

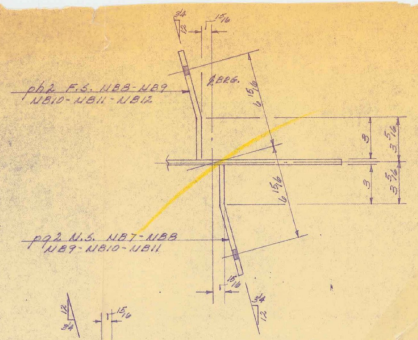




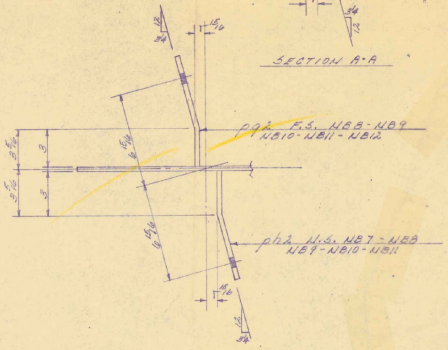
SHEAR STUD DETAIL



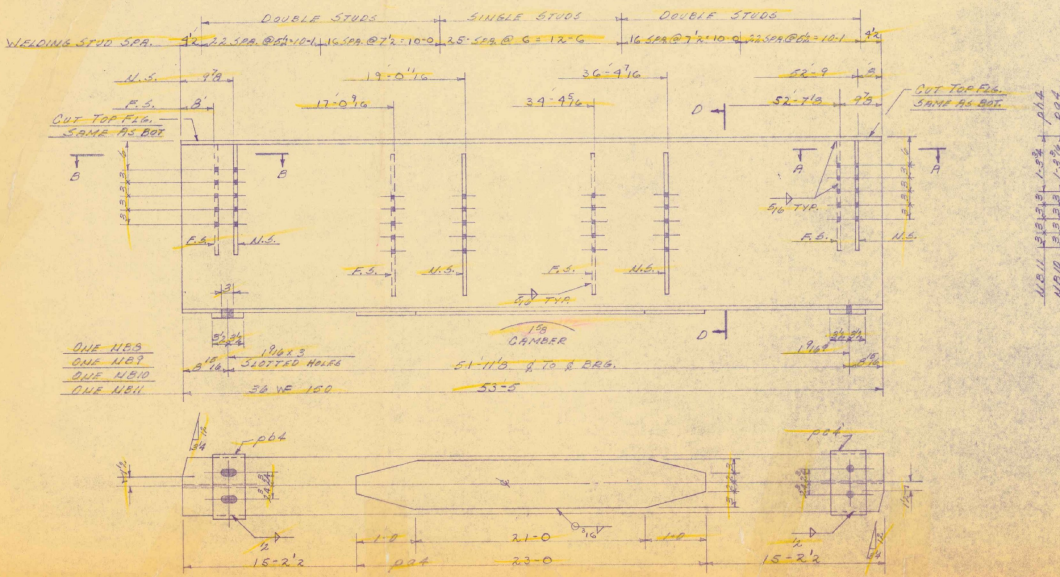
SECTION C-C

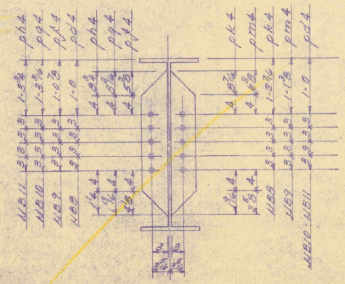


SECTION A-A



SECTION B-B





SECTION D-D

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT
		BEAMS				
1	NB7	36 WF 160	53	6	ORD. SB-E4	
1	NB8	do	53	6		
1	NB9	do	53	6	ORD. SB-E4	
1	NB10	do	53	5	& SOLEL	
1	NB11	do	53	6		
1	NB12	36 WF 160	53	6	ORD. SB-E4	
6	pl4	Pl. 16 x 4	23	0	ORD. & SOLEL	
4	pl4	Sole Pl. 7 x L	1	1	(AB) REQ'D @ 20'	
4	pl4	Sole Pl. 7 x L	1	1	(AB) I.F.B. BM.	
10	pl4	Bar E x 4	2	6	NB8-NB7-NB10-NB12	
1	pl4	do	2	6	NB7	
2	pl4	do	2	6	NB10	
2	pl4	do	2	6	NB11	
2	pl4	do	2	6	NB8	
2	pl4	BAR 5 x 2 x	2	6	NB9	
10	pl2	Pl. B x 4	2	0	F.S. NB8-NB9-NB10-NB11-NB12	
10	pl2	Pl. B x 4	2	0	N.S. NB7-NB8-NB9-NB10-NB11	
		1/2" WELD	14	0		
		5/16" WELD	200	0		
		3/16" WELD	280	0		
		1 PRINT & 2 Pls.				
		CONT. 62-520-1				
2160		3/4" WELDING STUDS	0	6 1/2		

REV. BY VT. ST. 5-20-62

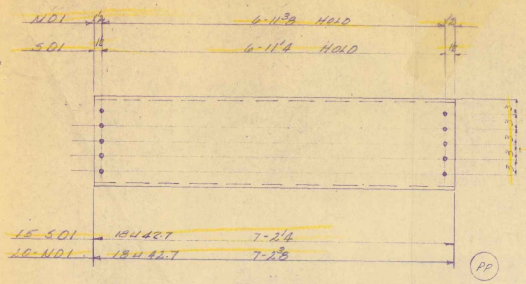
VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VT.

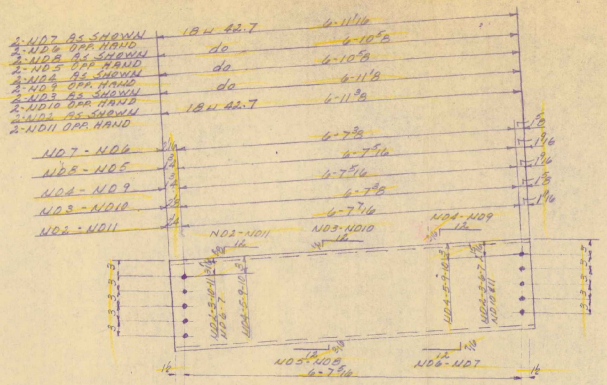
Approved 6/27/62 H.M.

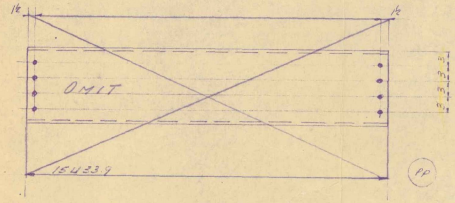
		DATE
DRAWN BY	N.T.	5-4-62
C'D BY		
HOLES	3/4" ø AS NOTED	
RIVE		
ASME	ALL (VT. SPECS)	

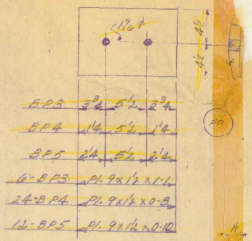
PROJECT WESTMINSTER INT. I 91-1(15) CONT #2
LOCATION WESTMINSTER, VT.
CUSTOMER LANE CONST. CORP.
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS
JOB NO. 62-529 STR. 62-529-9 WELDING STUDS SHT. NO. 4 REV.

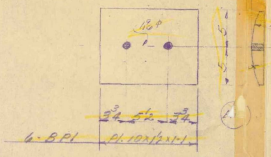
PRINT RECORD NO.	FOR	DATE
1	SUB APP	6-8
2	FAB	6-20
3		

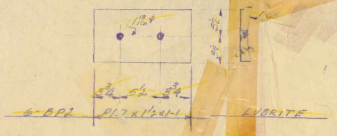


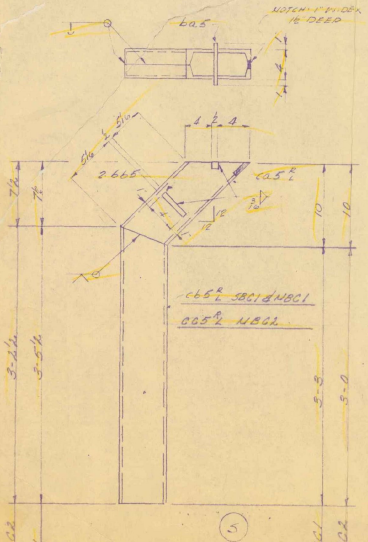


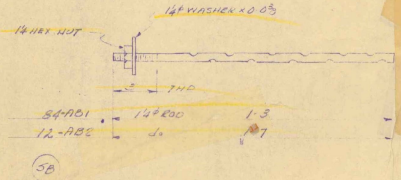


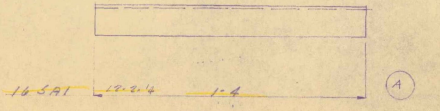










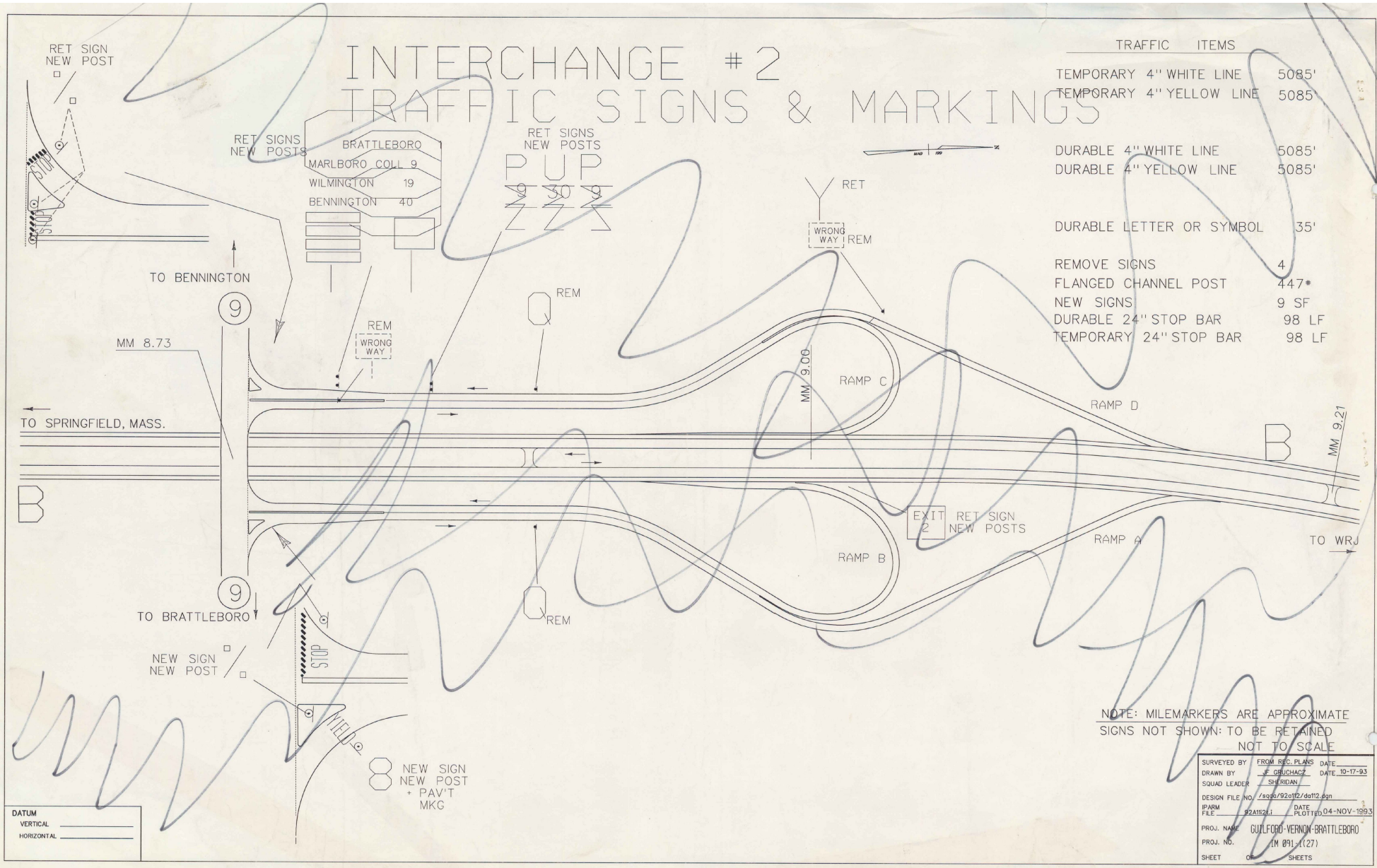


BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT
		DIAPHRAGMS			PP	
15	SD1	18W 42.7	7	2¼		
28	HD1	do	7	2⅜		
2	ND11	do	6	11⅜		
2	ND10	do	6	11⅝		
2	ND9	do	6	10⅝		
2	ND8	do	6	10⅝		
2	ND7	18W 42.7	6	11/16		
		4 SCUPPERS SBC1				
		4 SCUPPERS NBC1			⑤	
		8 SCUPPERS NBC2				
32	C65½	C 6 X 10.5	1	4½		
14	C65½	do	3	5½		
16	C65½	C 6 X 10.5	3	2½		
16	L6S	BAR 1 x ½	0	6		
32	L6S	BAR 1 x ½	0	4		
		BEARING PLATES				
4	BP1	PL 10 x 1½	1	1	PP	
4	BP2	PL 7 x 1½ LUBRITE	1	1	PP	
4	BP3	PL 9 x 1½	1	1	PP	
24	BP4	PL 9 x 1½	0	8	PP	
12	BP5	PL 9 x 1½	0	10	PP	
		12 ANGLES SA1			②	
16		L 2½ x 2½ x ¼	1	4		

VERMONT STRUCTURA
BUR
DRAWN BY K.T. DATE
CK'D BY
PROJECT WESTMINSTER
LOCATION: WESTM
CUSTOMER LA

INTERCHANGE #2
TRAFFIC SIGNS & MARKINGS



TRAFFIC ITEMS	
TEMPORARY 4" WHITE LINE	5085'
TEMPORARY 4" YELLOW LINE	5085'
DURABLE 4" WHITE LINE	5085'
DURABLE 4" YELLOW LINE	5085'
DURABLE LETTER OR SYMBOL	35'
REMOVE SIGNS	4
FLANGED CHANNEL POST	447#
NEW SIGNS	9 SF
DURABLE 24" STOP BAR	98 LF
TEMPORARY 24" STOP BAR	98 LF

NOTE: MILEMARKERS ARE APPROXIMATE
SIGNS NOT SHOWN: TO BE RETAINED
NOT TO SCALE

DATUM
VERTICAL
HORIZONTAL

SURVEYED BY FROM REC. PLANS DATE
DRAWN BY JF GRUCHACZ DATE 10-17-93
SQUAD LEADER SHERIDAN
DESIGN FILE NO. /sqgc/92a112/da112.dgn
IPARM FILE 92A112LI DATE PLOTTED 04-NOV-1993
PROJ. NAME GUILFORD-VERNON-BRATTLEBORO
PROJ. NO. IM 091-1(27)
SHEET OF SHEETS

I 91-1(15)

WESTMINSTER--ROCKINGHAM

CONTRACT NO. 4

Sta. 1786+20
End Drilling & Blasting of Solid Rock Subgrade - Item 114 Mod.

CUT 213
ROCK 116
FILL 5078

550.

Topsoil & Select Prog.
2'-0" to plerbo
Rock Outcrop
5466.27
5462.36
REV ℄
IPK 538.3
Topsoil & Gravel 1'-1"
Silt, Sand 5'-2"
Sand, Silt & Gravel 4'-6"
1786+00
E.Rd.
E.Rd.
℄ 1785 + 83
C-12.5'
DE 0
U.F. 181.
A C1-4" Sand, Silt
3'-5" Overburden
Granular Borrow Item 102-A
1.4
1.4
IPK 538.5

Sta. 1785+83
6"X222' PA.&O.G.M. Underdrain (Subgrade Drain)

Special Grass Seed (Slope Protection)
Sta. 1785+00 to Sta. 1786+50 Rt.

SOIL LEGEND
A- Auger
MA - Mechanical Auger
C- Drill Boring
R- Resistivity
S- Sounding

CUT 579
ROCK 449
FILL 4811

560

1'-0" Topsoil & Select Prog.
12
4:1
1:4
0.25'
Topsoil & Select Prog. to pl. at Sta.
5461.91
Rock Outcrop
-0.25
-0.25
REV ℄
-0.25
5462.38
-0.25
1.4
1.4
1.4
C-47.5'
DE 15'
1785+50
E.Rd.
E.Rd.
Granular Borrow, Item 102-A
A C1-15" Sand, Silt, Gravel
Sand, Silt, Gravel 10'-3"
3'-4" Overburden
℄ 1785 + 34
CUT 563
ROCK 466
FILL 3113

Rt.
Three Cable Guard Rail with Steel Posts.

Note:
In Order to Obtain Stable Slopes at the terminal point of the Contract, Earthwork Slopes shall be carried beyond the end of the Contract as directed by the Engineer.
The material used shall be composed of Granular Borrow, Item 102-A, extending away from station 1785 + 00 on a 1 on 4 slope.

Sta. 1785+00
END CONTRACT #3
BEGIN CONTRACT #4
Project I.91-1(15)

WESTMINSTER-ROCKINGHAM

LOCATED BY		C.O. BY	
PLANIMETERED BY	REG	DRAWN BY	CR
EXAMINED BY			
PROJECT	I	NO.	91-1(15)
SHEET	61	OF	114

1 INCH - 10 FEET

CONTRACT #3

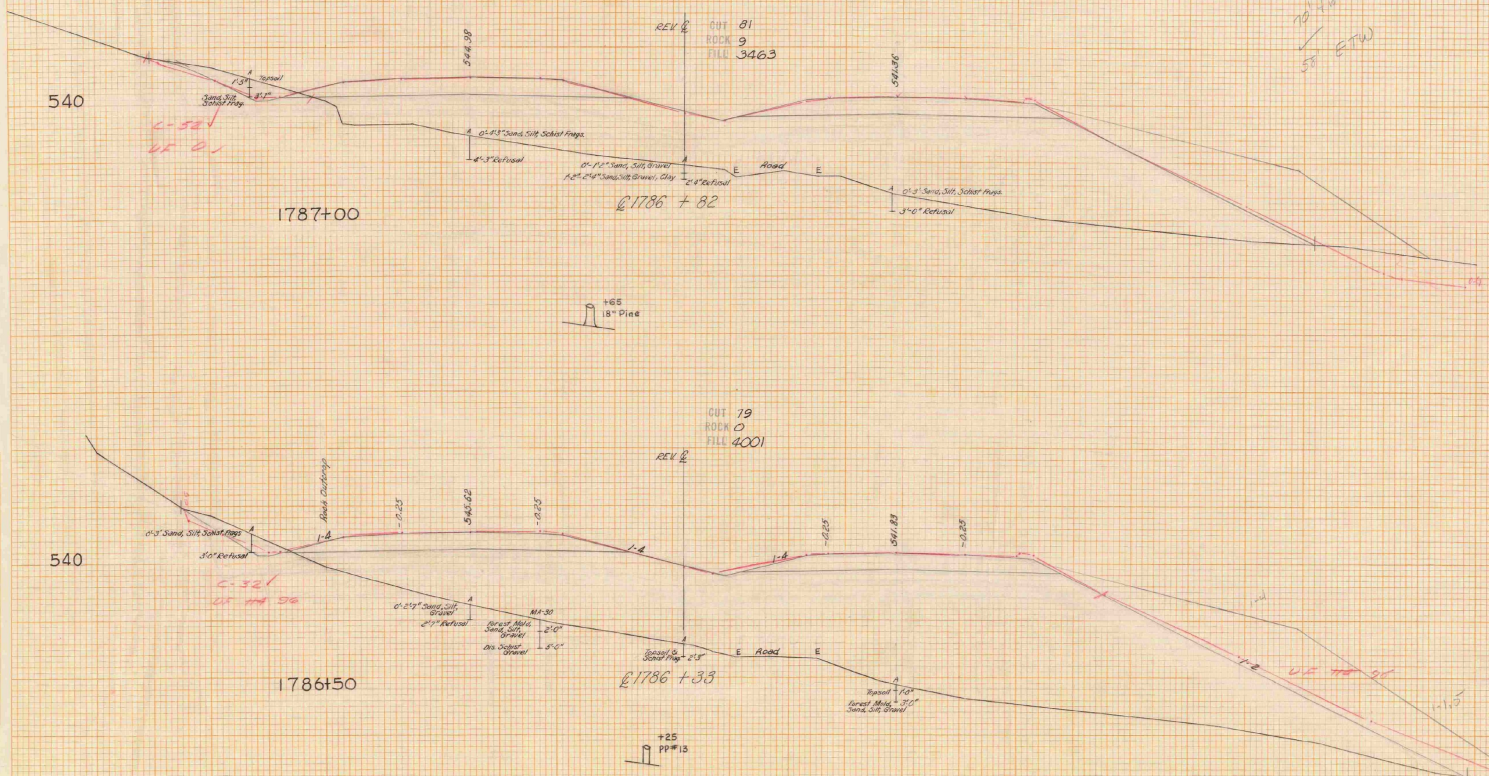
0 50 100 150 200

1785+83

191-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



0 50 100 150 200

1 INCH = 10 FEET

CONTRACT P-4

WESTMINSTER-ROCKINGHAM

DRAWN BY	CHECKED BY
TRACINGS PLOTTED BY	CHECKED BY
PLANIMETERED BY REG	CHECKED BY C.R.
EXAMINED BY	
PROJECT I	NO. 91-1(15) FILED
SHEET 62	OF 114

Sta 1786+33 - Sta 1786+82

PLATE CROSS SECTION © P. K. & M. E. STANDARD PAPER MADE AND PRINTED BY EUGENE DIETZGEN CO. U. S. A.

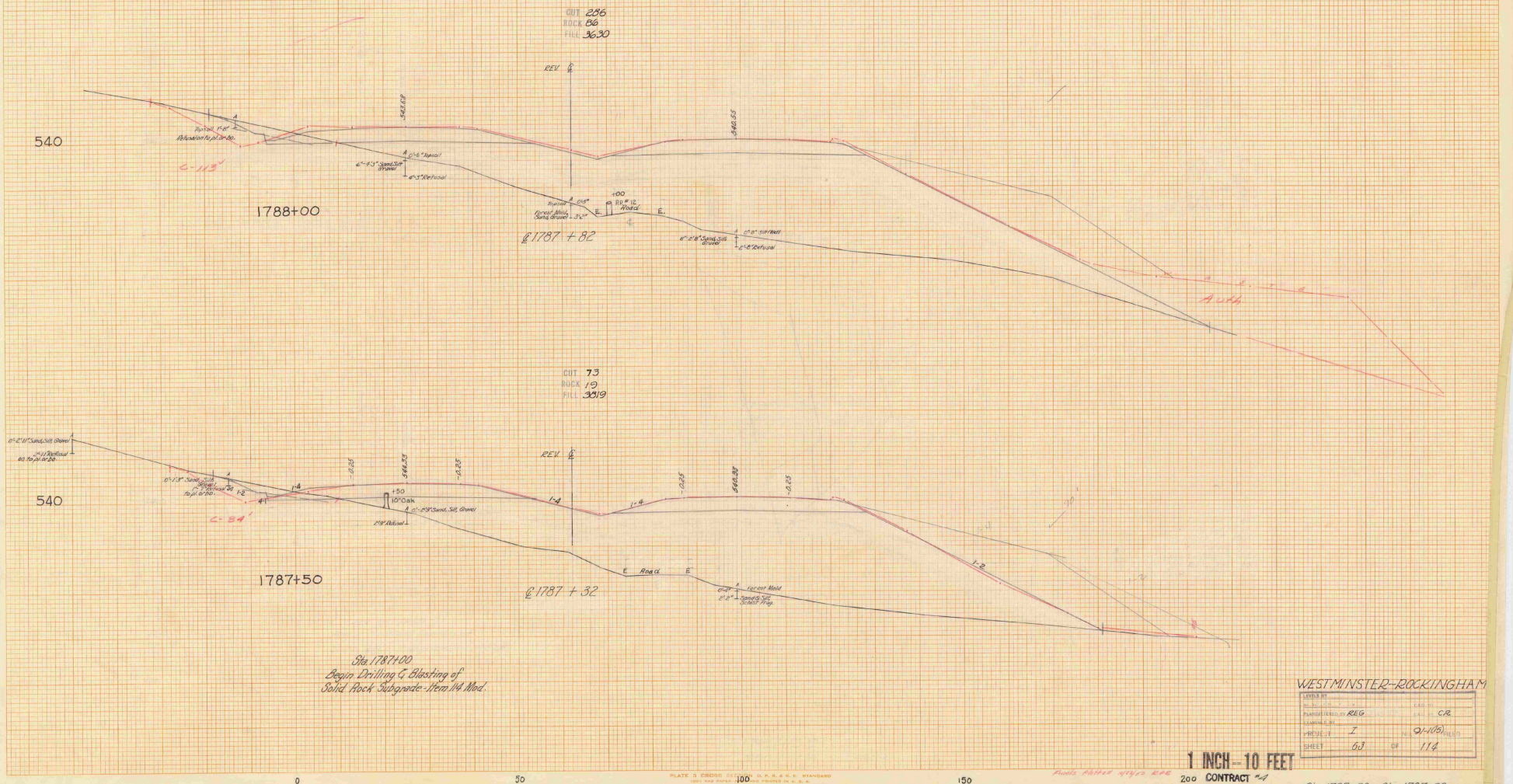
FINAL SURVEY — DATE — SURVEYED — PLOTTED — TRACED — JOINTS CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — DATE — SURVEYED — TRACED — NOTE BOOK — PAGE

I 91-1(15)

[redacted]
WESTMINSTER–ROCKINGHAM
[redacted]

CONTRACT NO. 4



WESTMINSTER–ROCKINGHAM

LEVELS BY		CHKD BY	
PLANIMETERED BY	REG	CHKD BY	CR
TRANSFERRED BY	I	PROJECT NO.	91-1(15)
SHEET	63	OF	114

FINAL SURVEY — SURVEYED — PLOTTED — CHKD — SCALE — STAKED — NO. — DATE — REV

ORIGINAL SURVEY — SURVEYED — PLOTTED — CHKD — SCALE — STAKED — NO. — DATE — BY

PLATE 3 CROSS SECTION C. B. & Q. R. & N. K. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

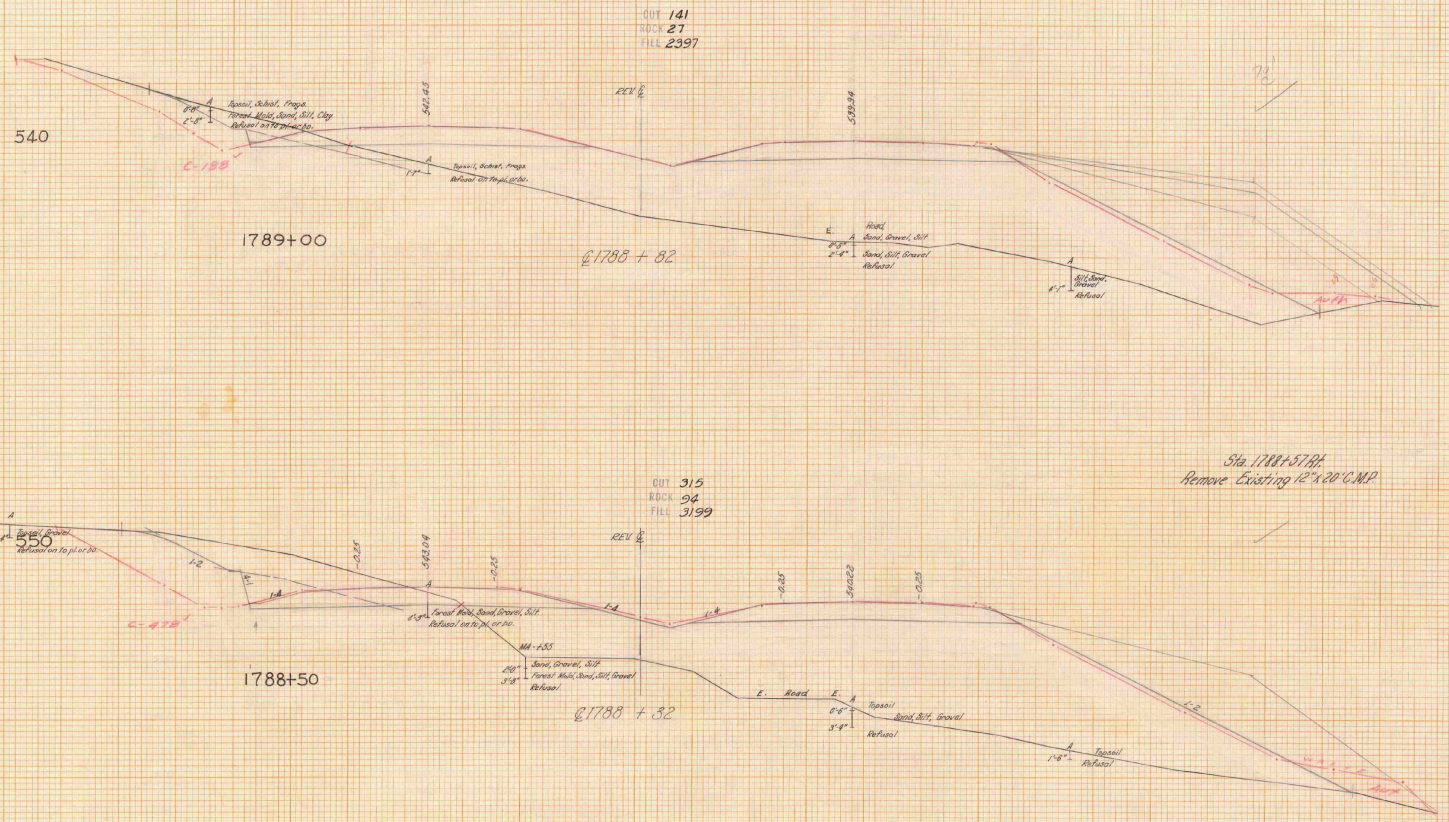
Finals Feather Keyed EPE

Finals From Old Tw-10-5263

I 91-1(15)

WESTMINSTER – ROCKINGHAM

CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

LEVELS BY	
SECTIONS PLOTTED BY	CKD. BY
PLANIMETERED BY REG.	CKD. BY CR
SYMBOLED BY	
PROJECT I	NO. 91-1(15) FILED
SHEET 64	OF 114

1 INCH – 10 FEET

0 50 100 150 200

CONTRACT #-1

Sta. 1788+32 – Sta. 1788+82

I 91-1(15)

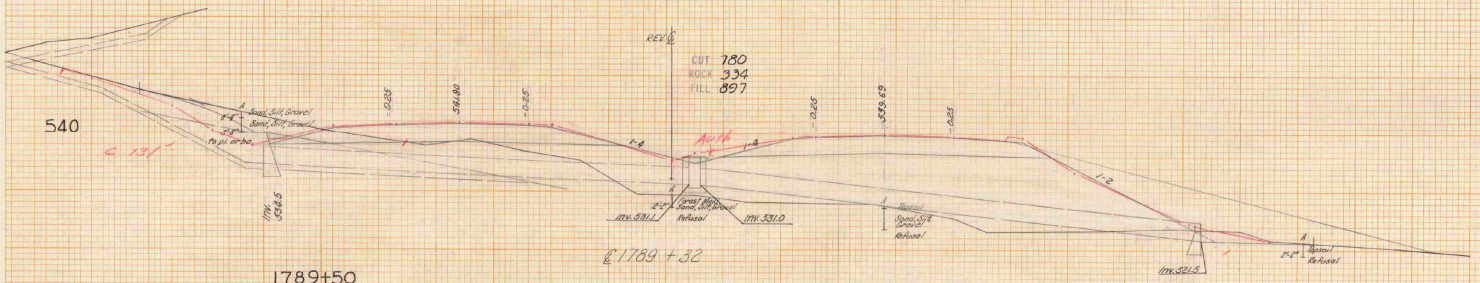
[redacted]
WESTMINSTER – ROCKINGHAM

CONTRACT NO. 4

Sta. 1789+50 Lt.
Bit. Grouted Stone Gutter - Item 553

Sta. 1789+50 Lt.
New 36"x76' RCP class III mod

Sta. 1789+50 Rt.
New 36"x 88' A.C.C.G.M.P.



1789+50

℄ 1789 + 32

Sta. 1789+05 Rt.
Remove Existing 18"x 18'x 22' Stone Culvert

WESTMINSTER-ROCKINGHAM

DESIGNED BY	CHECKED BY
PLANIMETERED BY REG.	CHECKED BY CR.
DRAWN BY	
PROJECT I	NO. 91-1(15) FILED
SHEET 05	OF 174

1 INCH = 10 FEET

0 50 100 150 200

CONTRACT #4

Sta. 1789+32

FINAL PLAN CHG 10-25-67

PLATE CROSS SECTION C. P. R. & R. E. STANDARD
EUGENE DIETZGEN CO.

FINAL SURVEY — SUBMITTED — PLOTTED — CHECKED — DATE — BY — REVISIONS — DATE — BY — NO. — ITEM — APPROVED

ORIGINAL SURVEY — SUBMITTED — PLOTTED — CHECKED — DATE — BY — REVISIONS — DATE — BY — NO. — ITEM — APPROVED
LARS KING — DON STARK

191-1(15)

[redacted]
WESTMINSTER – ROCKINGHAM
[redacted]
CONTRACT NO. 4

FINAL SURVEY — SURVEYED BY … DRAWN BY … TRACED BY … CHECKED BY … NOTE BOOK … NO. …

ORIGINAL SURVEY — SURVEYED BY … PLOTTED BY … DRAWN BY … TRACED BY … CHECKED BY … NOTE BOOK … NO. …

CUT 2424
REV'D ROCK 1330
FILL 0

550

Topsoil & Subsoil Frag.

Topsoil

Disintegrated Schist Gravel

To pl or bo.

Sand, Silt, Gravel

To pl or bo.

Sand, Silt, Gravel To pl or bo.

Slt of House

E Road E

℄ 1790 + 36

1790+50

Sta. 1789+80
End Three Cable Guard Rail
w/ Steel Posts.

CUT 2077
ROCK 1093
FILL 31

REV'D ℄

540

Topsoil

Sand, Silt, Gravel Refusal

Sand & Silt, Schist Frag. Refusal on to pl or bo.

Sand, Silt, Gravel Refusal

Dirt Road

℄ 1789 + 82

1790+00

WESTMINSTER-ROCKINGHAM

LEVELS BY …
SECTIONS PLOTTED BY … CHECKED BY …
PLANIMETERED BY REG CHECKED BY OR
EXAMINED BY …
PROJECT I. NO. 91-1(15)(FILE)
SHEET 66 OF 114

1 INCH = 10 FEET

0 50 100 150 200

PLATE CROSS SECTION C. P. P. & L. E. STANDARD
THE PAPER-VALE AND PRINTER CO. U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #-1

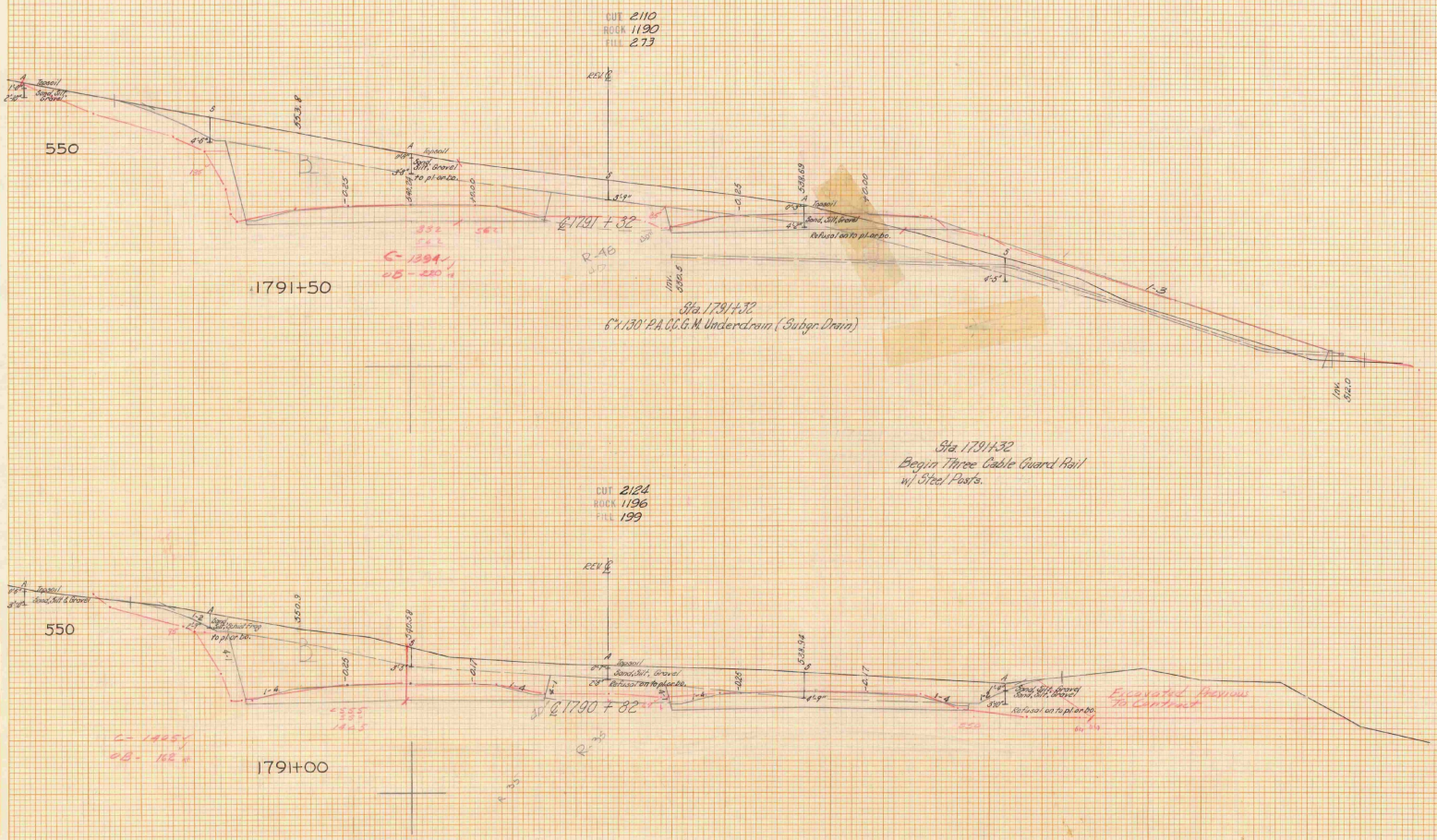
Sta 1789+82 - Sta 1790+32

FINAL PLAN CHK'D 10-25-63

I 91-1(15)

[redacted]
WESTMINSTER–ROCKINGHAM

CONTRACT NO. 4



FINAL SURVEY — SURVEYED BY — PLOTTED BY — NOTE BOOK — NO. — DATE — BY — CHECKED — AREAS CHECKED

ORIGINAL SURVEY — SURVEYED BY — PLOTTED BY — NOTE BOOK — NO. — DATE — BY — CHECKED — AREAS CHECKED

WESTMINSTER-ROCKINGHAM

LEVELS BY:
SECTIONS TAKEN BY: CKED BY:
PLANIMETERED BY: REG CKED BY: CR
EXAMINED BY:
PROJECT I- 91-1(15) AUTHORIZED
SHEET 67 OF 114

1 INCH = 10 FEET

0 50 100 150 200

PLATE CROSS SECTION D. P. R. & R. E. STANDARD
ON TAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

Final Plans checked 5-W 11-24-69

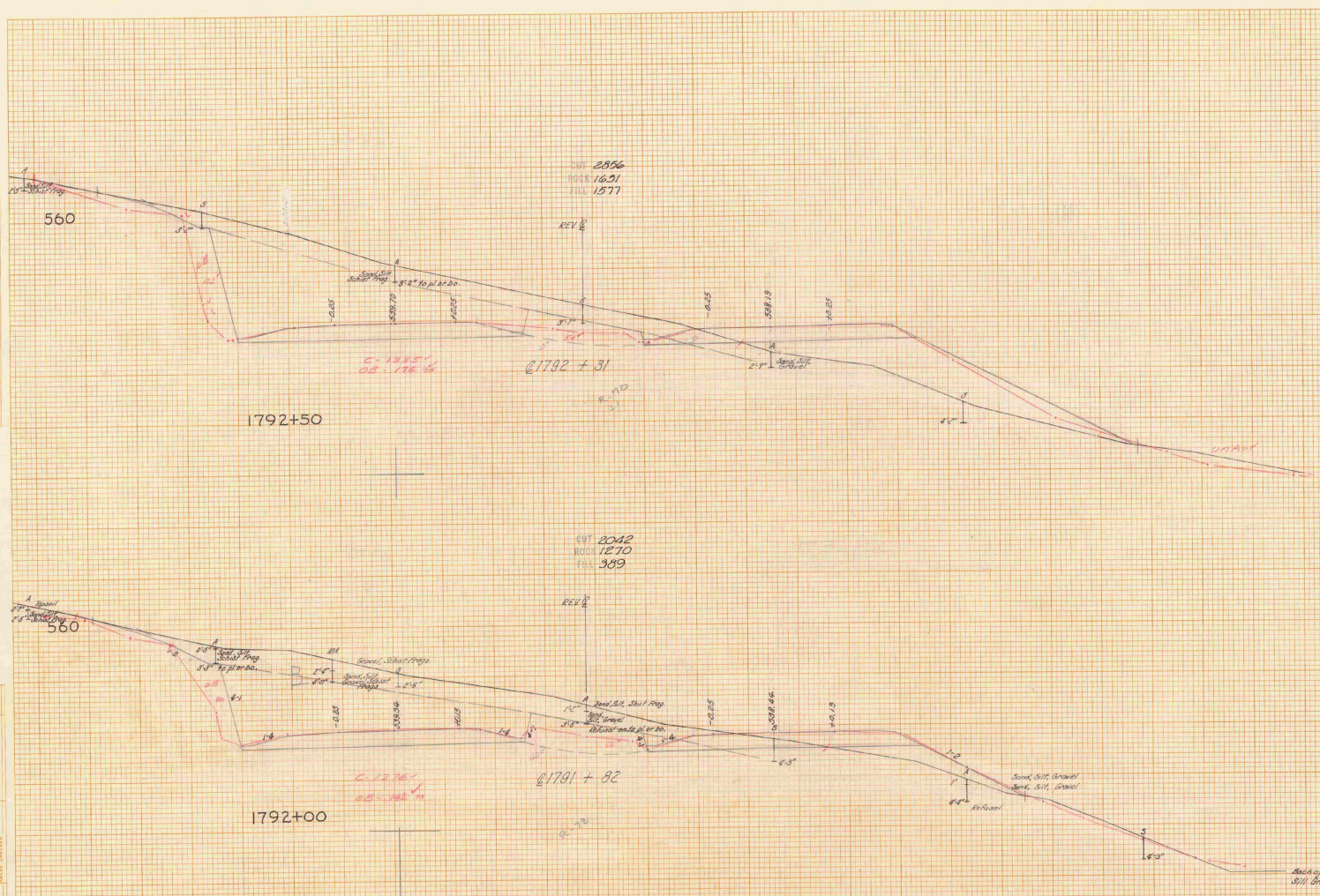
CONTRACT #4

Sta. 1790+82 – Sta. 1791+32

191-1(15)

WESTMINSTER—ROCKINGHAM

CONTRACT NO. 4



FINAL SURVEY — SURVEYED / PLOTTED / TRACED / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TRACED / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

WESTMINSTER-ROCKINGHAM

LOYED BY / DRAWN BY / CHK. BY

TURNED BY REG / ENG. BY C.R.

EXAMINED BY

PROJECT I / NO. 91-1(15) FILED

SHEET 68 OF 119

1 INCH = 10 FEET

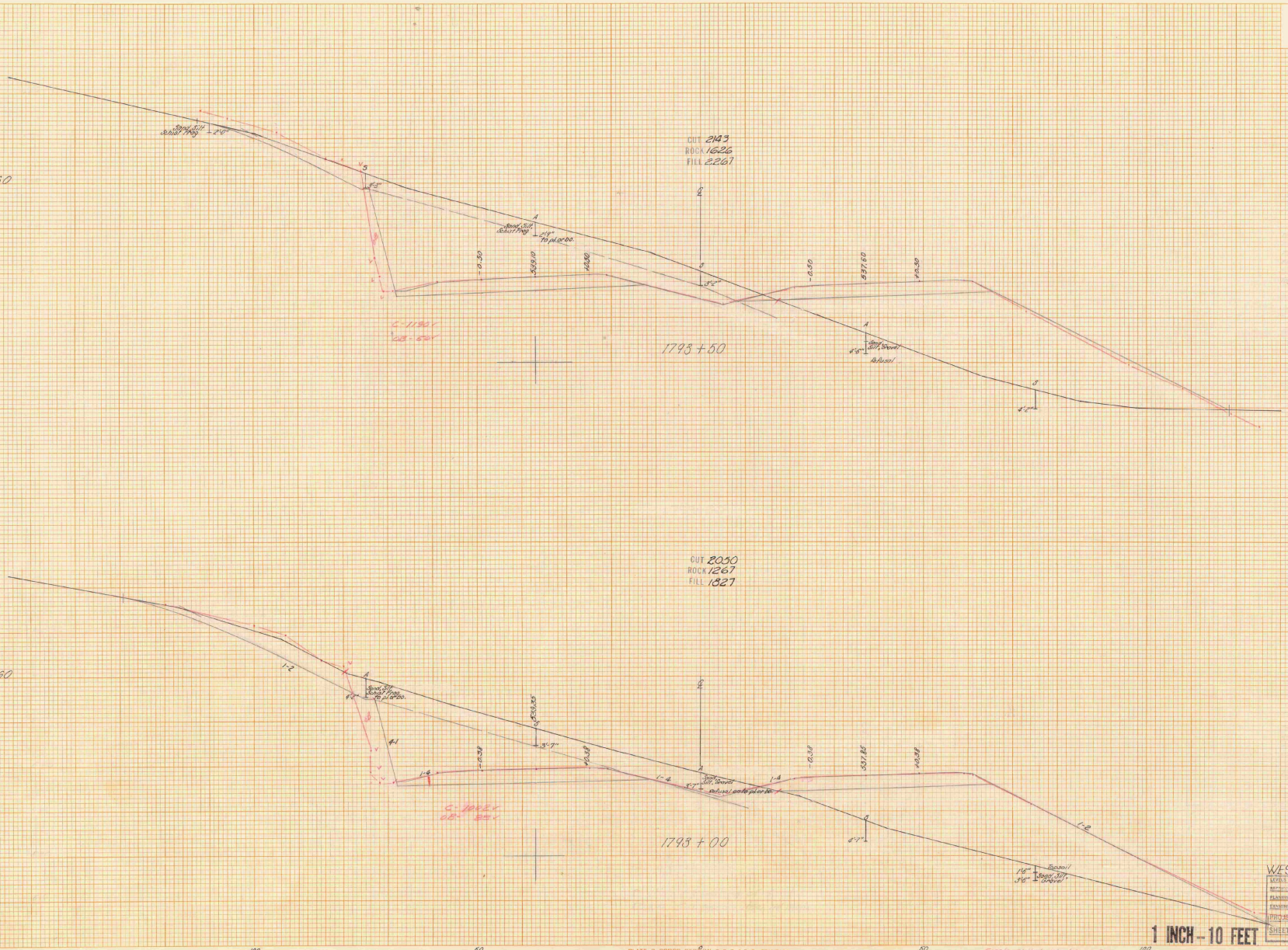
0 50 100 150 200

PLATE 100 CROSS SECTION U. P. R. & R. E. STANDARD
BIG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #4

Sta. 1791+82 — Sta. 1792+31

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY — SURVEYED BY ____ PLOTTED ____ TEMPLATE ____ AREAS CHECKED ____ NOTE BOOK ____ NO. ____ BY ____ DATE ____

ORIGINAL SURVEY — SURVEYED BY ____ PLOTTED ____ TEMPLATE ____ AREAS CHECKED ____ NOTE BOOK ____ NO. ____ BY ____ DATE ____

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1951 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

Female Flanker Wheeler & Phil

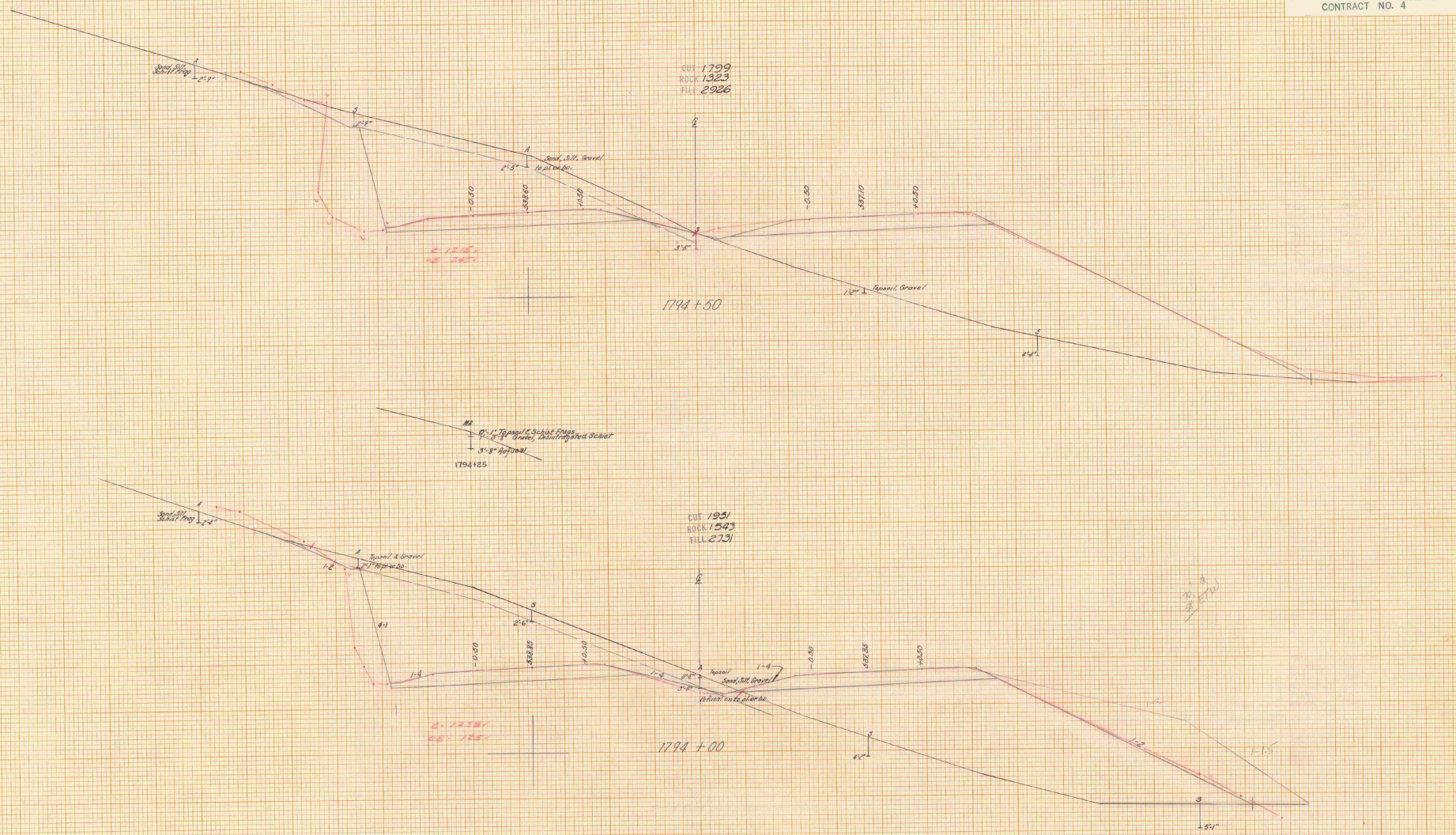
1 INCH = 10 FEET

WESTMINSTER-ROCKINGHAM
LEVELS BY ____
MATHEMATICAL FIELD CHK'D BY ____
PLANIMETERED BY REG CHK'D BY CR
EXAMINED BY ____
PROJECT 7 NO. 91-1(15)
SHEET 69 OF 114

CONTRACT #4

Sta. 1793+00 - Sta. 1793+50

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY — PLOTTED — TRACED — CHECKED — AREA — AREA CHECKED — DATE — BY — NO.

ORIGINAL SURVEY — PLOTTED — TRACED — CHECKED — AREA — AREA CHECKED — DATE — BY — NO.

WESTMINSTER-ROCKINGHAM

LENGTH BY	
SECTIONS DIVISION	
PLANIMETERED BY REG	CHECKED BY CR
TRACED BY	SHEETS
PROJECT I	NO. 91-1(15) FILES
SHEET 70	OF 114

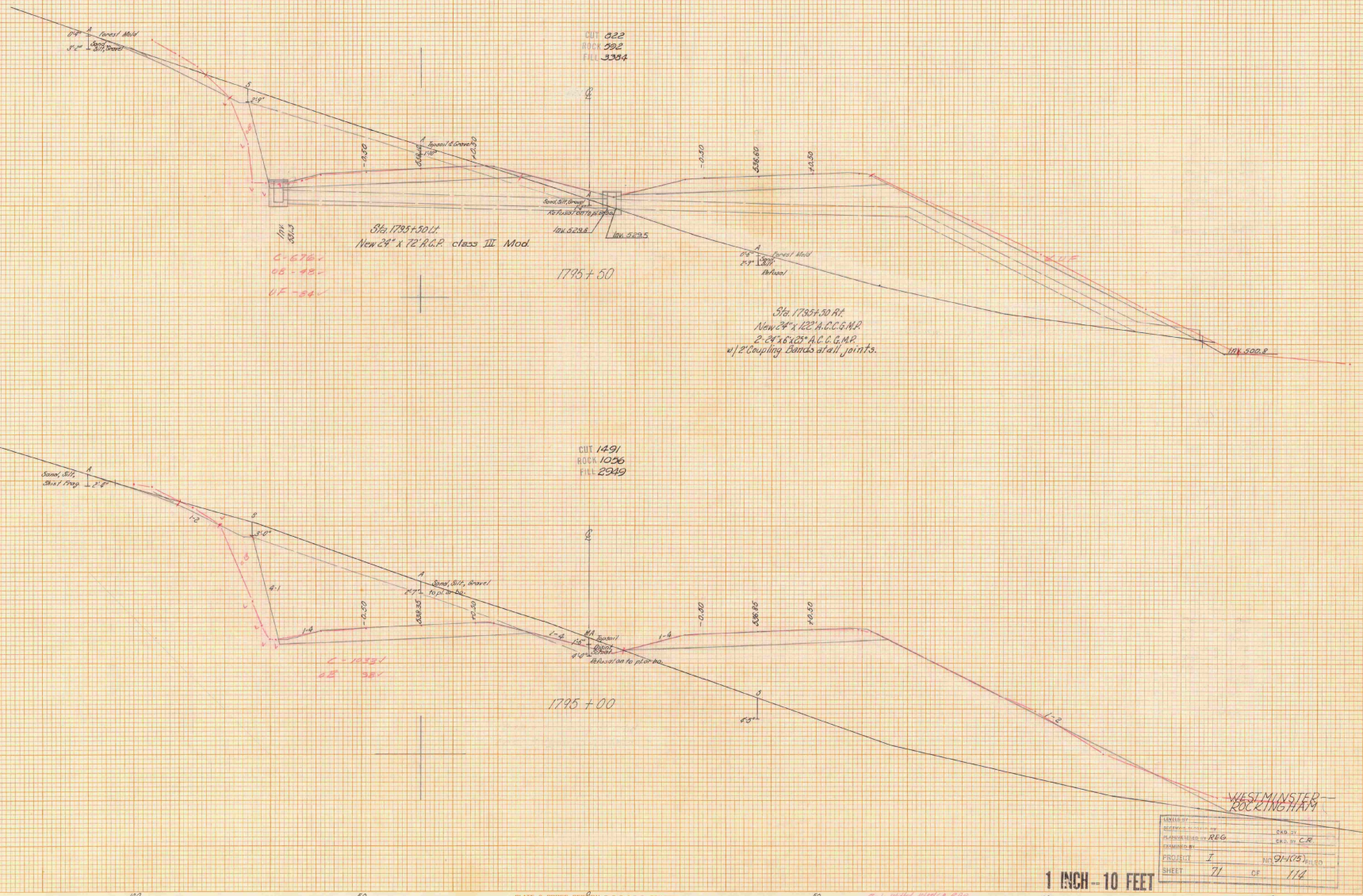
1 INCH = 10 FEET

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1001 MIMEOGRAPHING AND PRINTING IN U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #1

Sta. 1794+00 - Sta. 1794+50

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



1 INCH = 10 FEET

PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
1951 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

Ends plotted 11/9/56 R.H.

CONTRACT No. 4

Sta. 1795+00 — Sta. 1795+50

WESTMINSTER—ROCKINGHAM

LENGTH OF ROADWAY SURVEYED	
PLANIMETERED BY	REG. CKD. BY C.R.
EXAMINED BY	
PROJECT	I 91-1(15)
SHEET	71 OF 114

FINAL SURVEY — SURVEYED, PLOTTED, AREAS CHECKED, NOTE BOOK, NO., SHEET

ORIGINAL SURVEY — SURVEYED, PLOTTED, AREAS CHECKED, NOTE BOOK, NO., SHEET

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

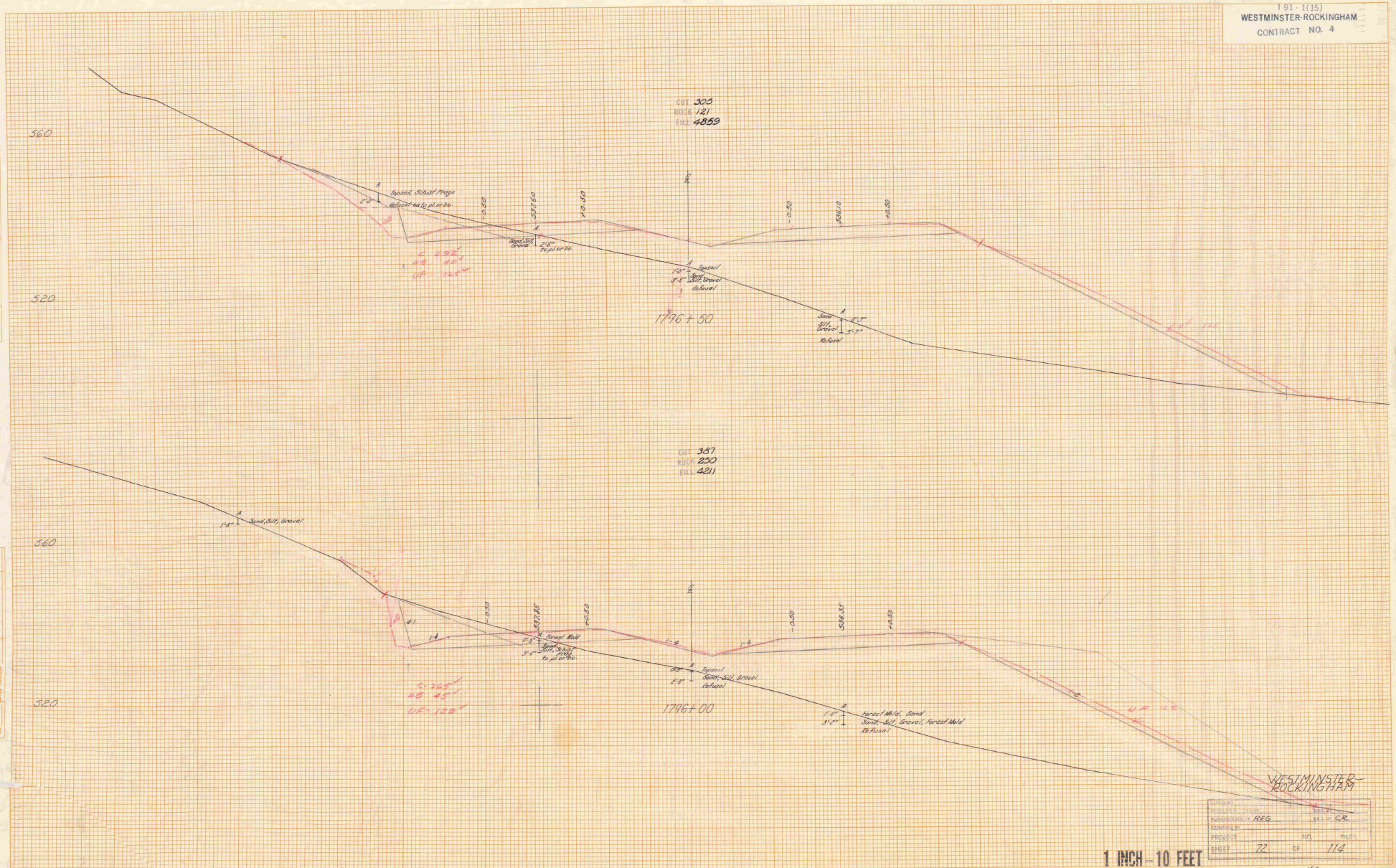


PLATE 2 CROSS SECTION C. P. R. & N. E. STANDARD
100% RAG PAPER - INDEX AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FINAL PLAN CHECKED 5-14-25-63

WESTMINSTER-ROCKINGHAM

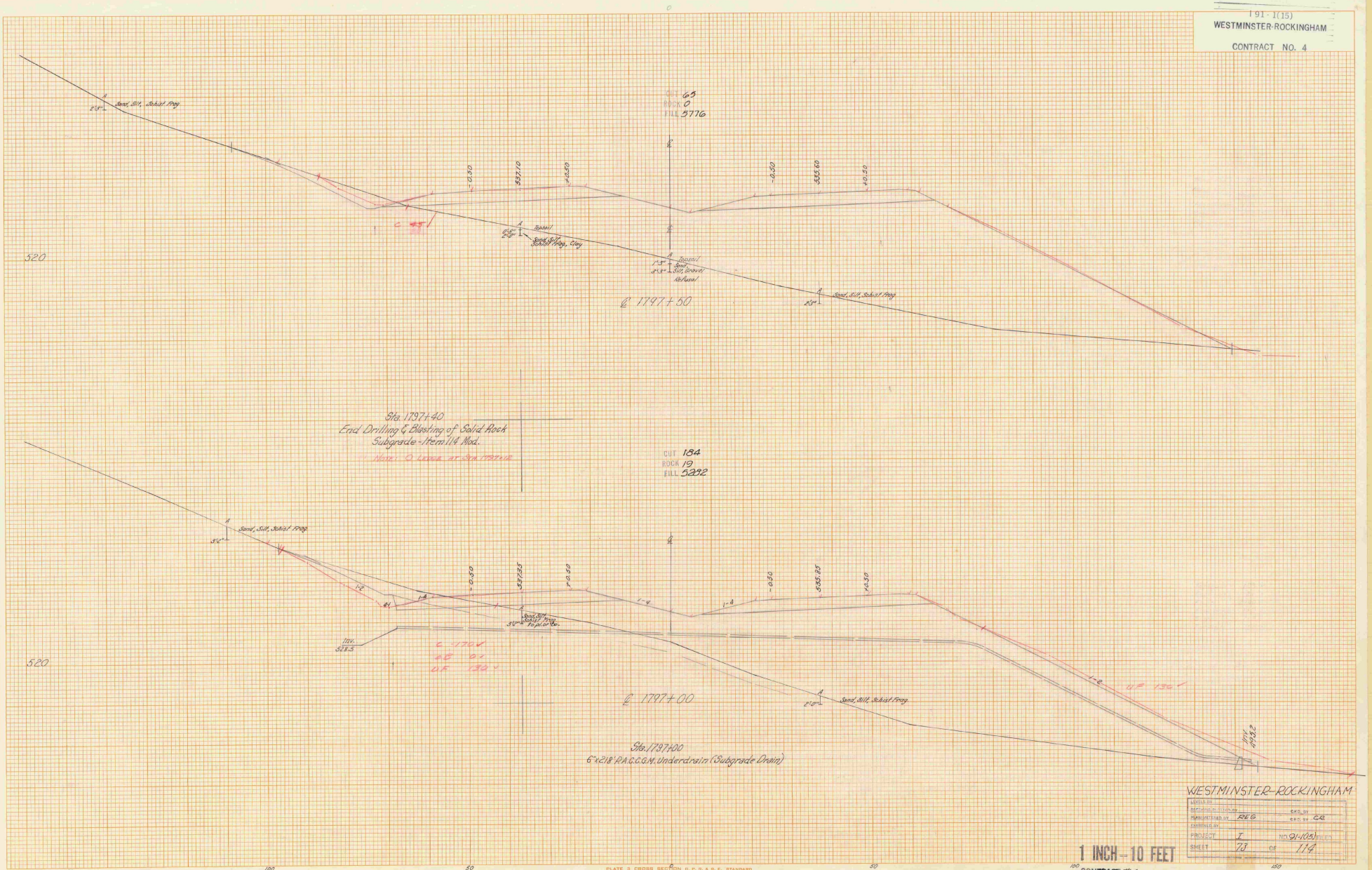
REVISED	
RECOMMENDED FOR APPROVAL	DATE
EXAMINED BY	DATE
PROJECT	NO. FILED
SHEET 72 OF 114	

1 INCH = 10 FEET

CONTRACT #4

Sta. 1796+00 - Sta 1796+50

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

LAYED OUT BY	
MATHEMATICALLY CHK. BY	
MARKETTED BY REG	CHK. BY C.R.
EXAMINED BY	
PROJECT I	NO. 91-105 FILED
SHEET 73	OF 119

1 INCH = 10 FEET

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
1001 MIS PAPER-MYLAR AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #4

Sta. 1797+00 - Sta. 1797+50

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

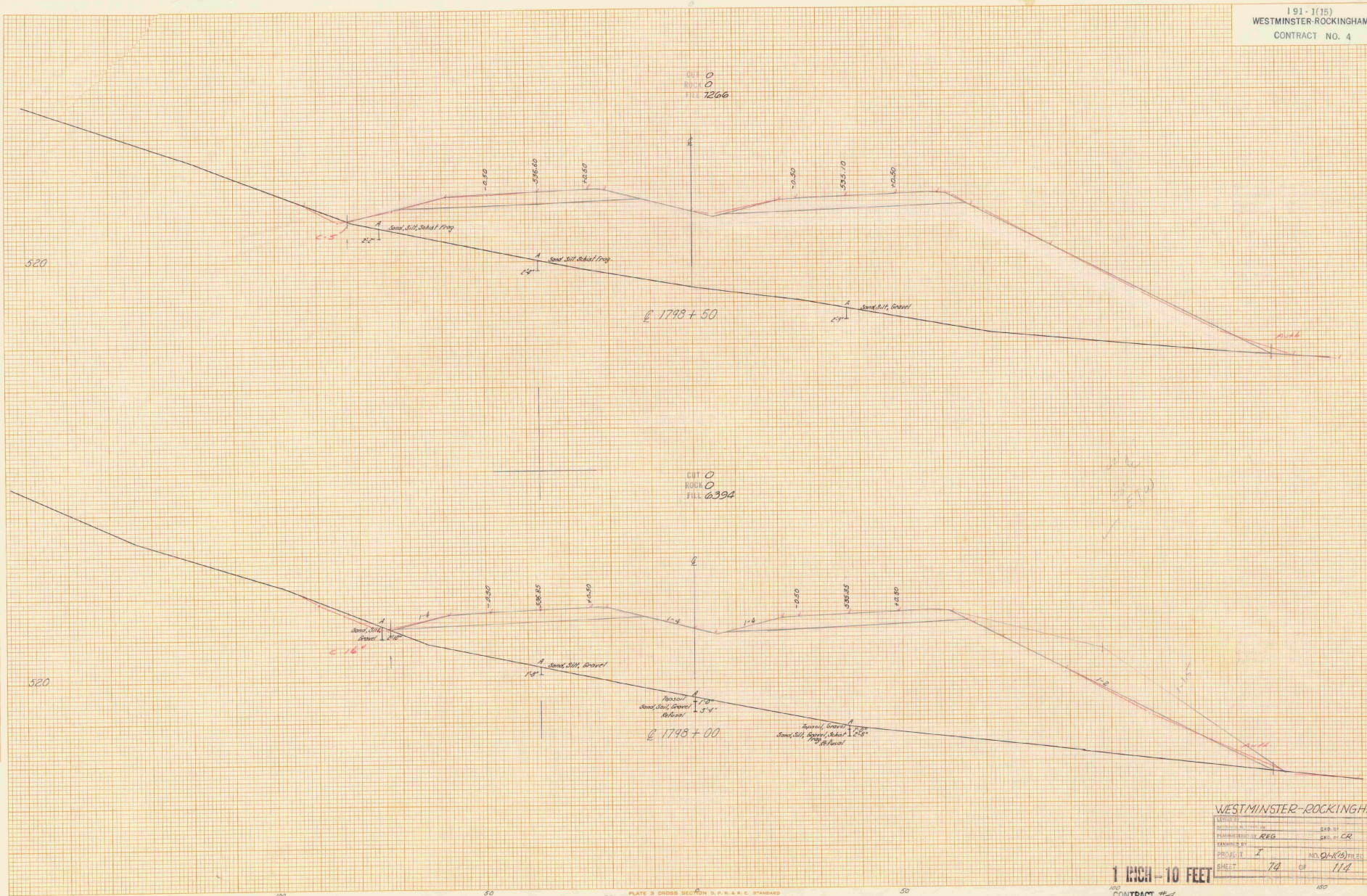


PLATE 3 CROSS SECTION U. S. P. R. & R. E. STANDARD
1951, RAIN PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FINAL PLAN CHECKED 10-25-63

WESTMINSTER-ROCKINGHAM
LEVELED BY — DRD. BY
TRIANGULATED BY REG — DRD. BY CR
EXAMINED BY
PROJECT I — NO. 91-1(15) PHASE
SHEET 74 OF 114

1 INCH = 10 FEET

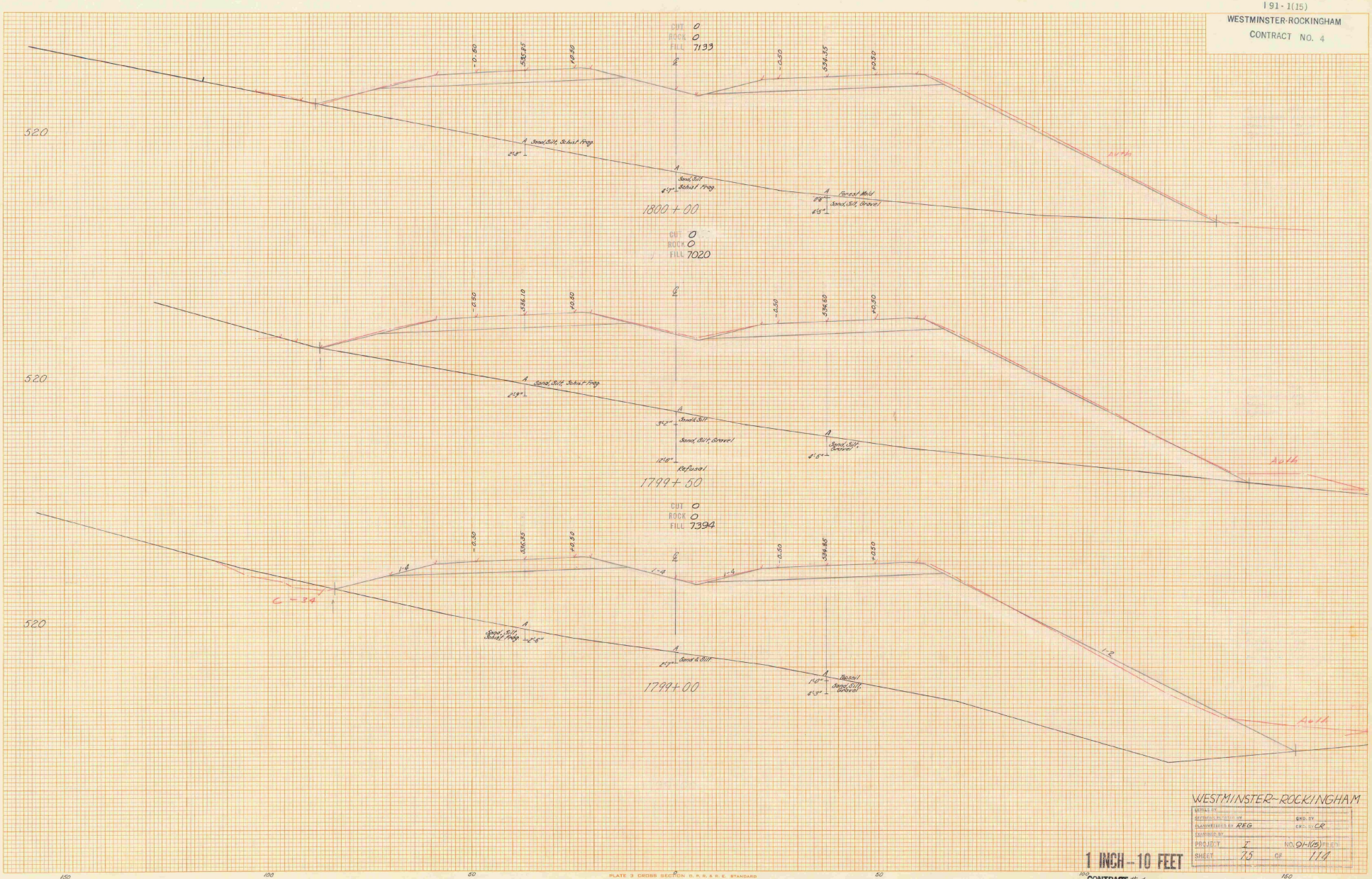
CONTRACT, #4

Sta. 1798+00 – Sta. 1798+50

I 91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



1 INCH = 10 FEET

CONTRACT 4+1

WESTMINSTER-ROCKINGHAM

DRAWN BY	
DETAILED BY	GRID BY
EXAMINED BY REG	CALC BY CR
CHECKED BY	
PROJECT I	NO. 91-1(15)
SHEET 25	OF 114

Sta. 1799+00 - Sta. 1800+00

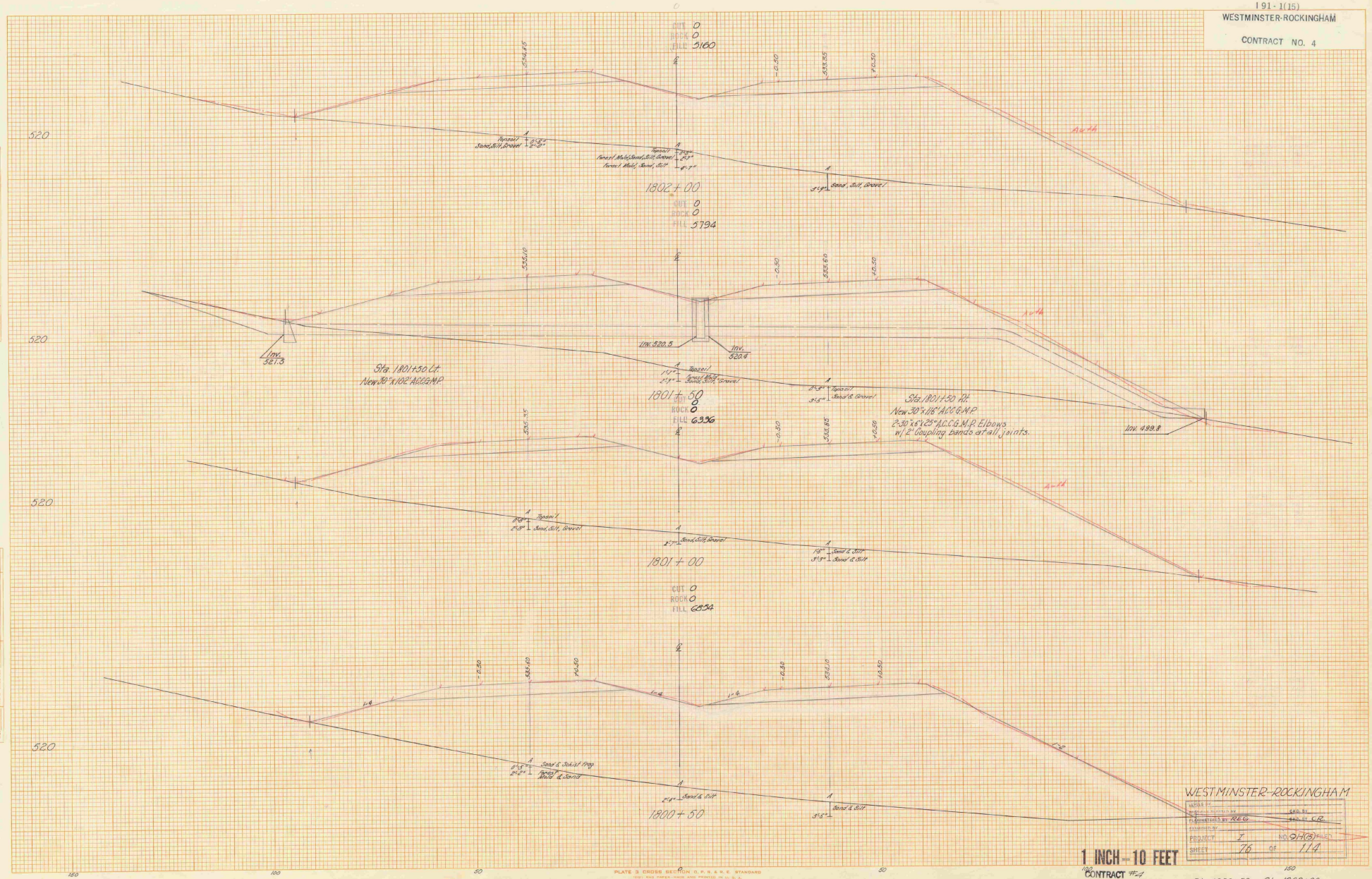
FINAL PLAN CHECKED 10/11-12-63

PLATE 2 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER - MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

I 91 - 1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

LAYOUT BY	
FIELD NOTES TAKEN BY	CKD. BY
COMPUTATIONS BY R.E.C.	CHK. BY C.R.
DRAWN BY	
PROJECT I	NO. 91-1(15) FAUS
SHEET 76	OF 114

1 INCH = 10 FEET

FOR CONTRACT NO. 4

Sta. 1800+50 – Sta. 1802+00

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
1921 HAS THREE-INCH HOLE PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

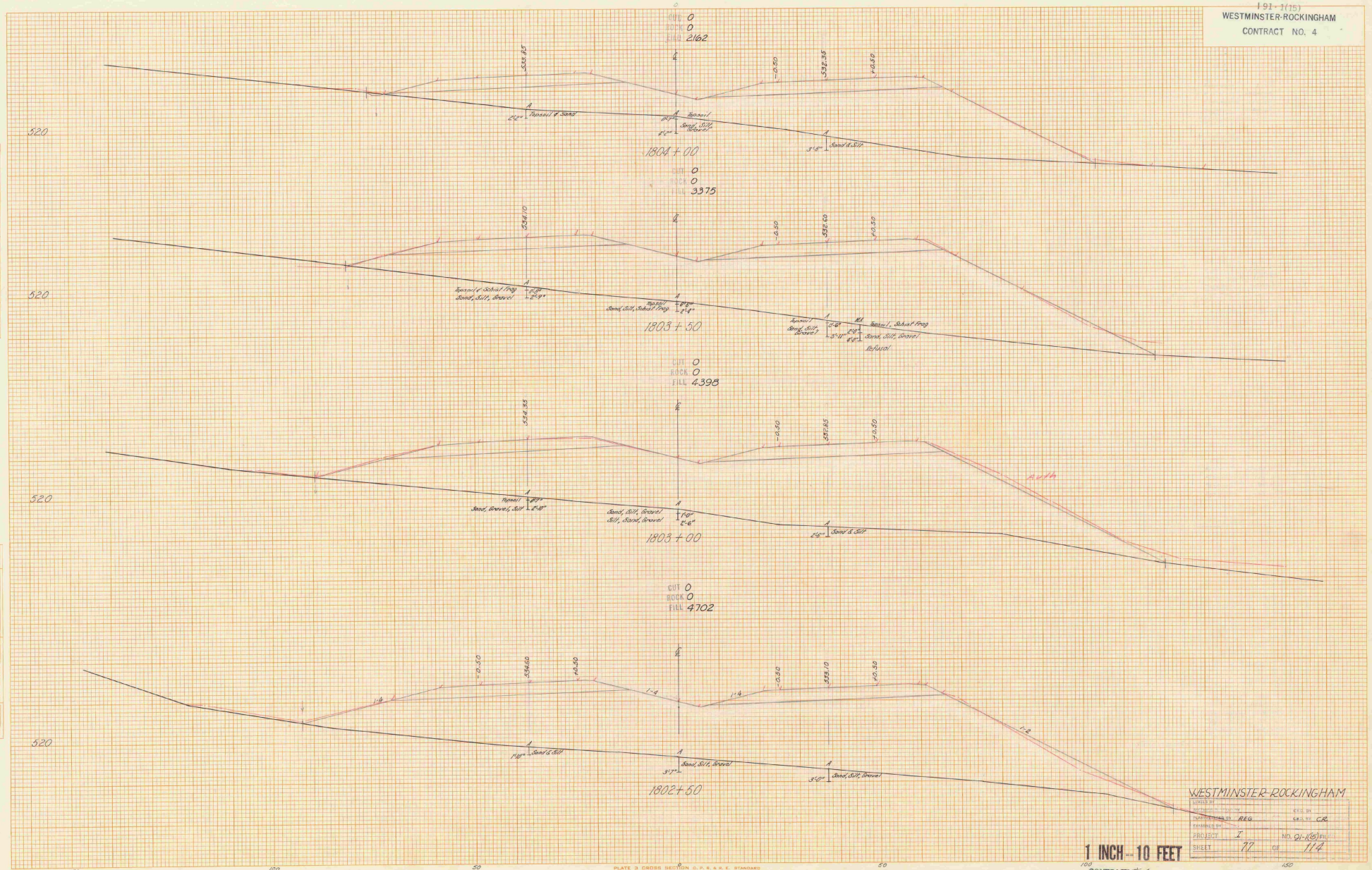
FINAL SURVEY — SURVEYED BY; PLOTTED BY; NOTE BOOK; PAGES; AREAS CHECKED; NO.; DATE

ORIGINAL SURVEY — SURVEYED BY R. Bender; PLOTTED BY; NOTE BOOK; PAGES 2-22; AREAS CHECKED; NO.; DATE

I-91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



ORIGINAL SURVEY — DRAWN — PLOTTED — CHECKED — DATE 8-8-57 — SCALE 1"=10' — NOTE BOOK — PAGE — AREA — MEAS CHECKED — NO.

FINAL SURVEY — DRAWN — PLOTTED — CHECKED — DATE — SCALE — NOTE BOOK — PAGE — AREA — MEAS CHECKED — NO.

PLATE 3 CROSS SECTION C. P. S. & S. E. STANDARD
1951 RAG PAPER ISSUE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

WESTMINSTER-ROCKINGHAM

LINES BY — CKD. BY

COMPUTED BY REG — CKD. BY CR

EXAMINED BY

PROJECT F — NO. 91-1(15) FIL

SHEET 77 — OF 114

1 INCH = 10 FEET

CONTRACT #4

Sta. 1802+50 - Sta. 1804+00

I 91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4

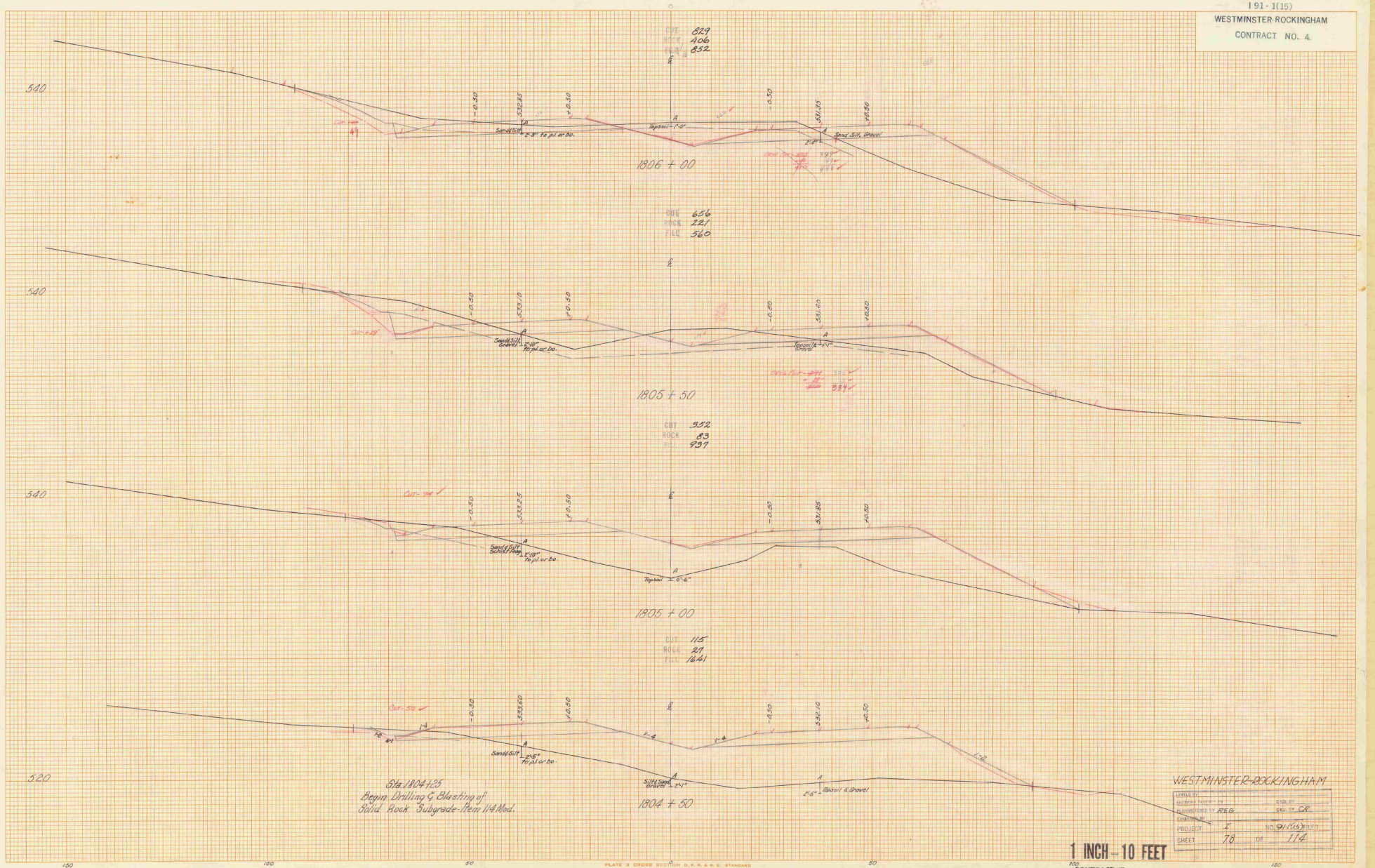


PLATE 3 CROSS SECTION D.P.W. & B.C. STANDARD
1950 MAP PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

1 INCH = 10 FEET

CONTRACT NO. 4

Sta. 1804+50 - Sta. 1806+00

WESTMINSTER-ROCKINGHAM

LEVELS BY	CHD. BY
ELEVATIONS PLOTTED BY REG.	SKD. BY C.R.
CONTROL BY	
PROJECT I	NO. 91-1(15)
SHEET 78	OF 114

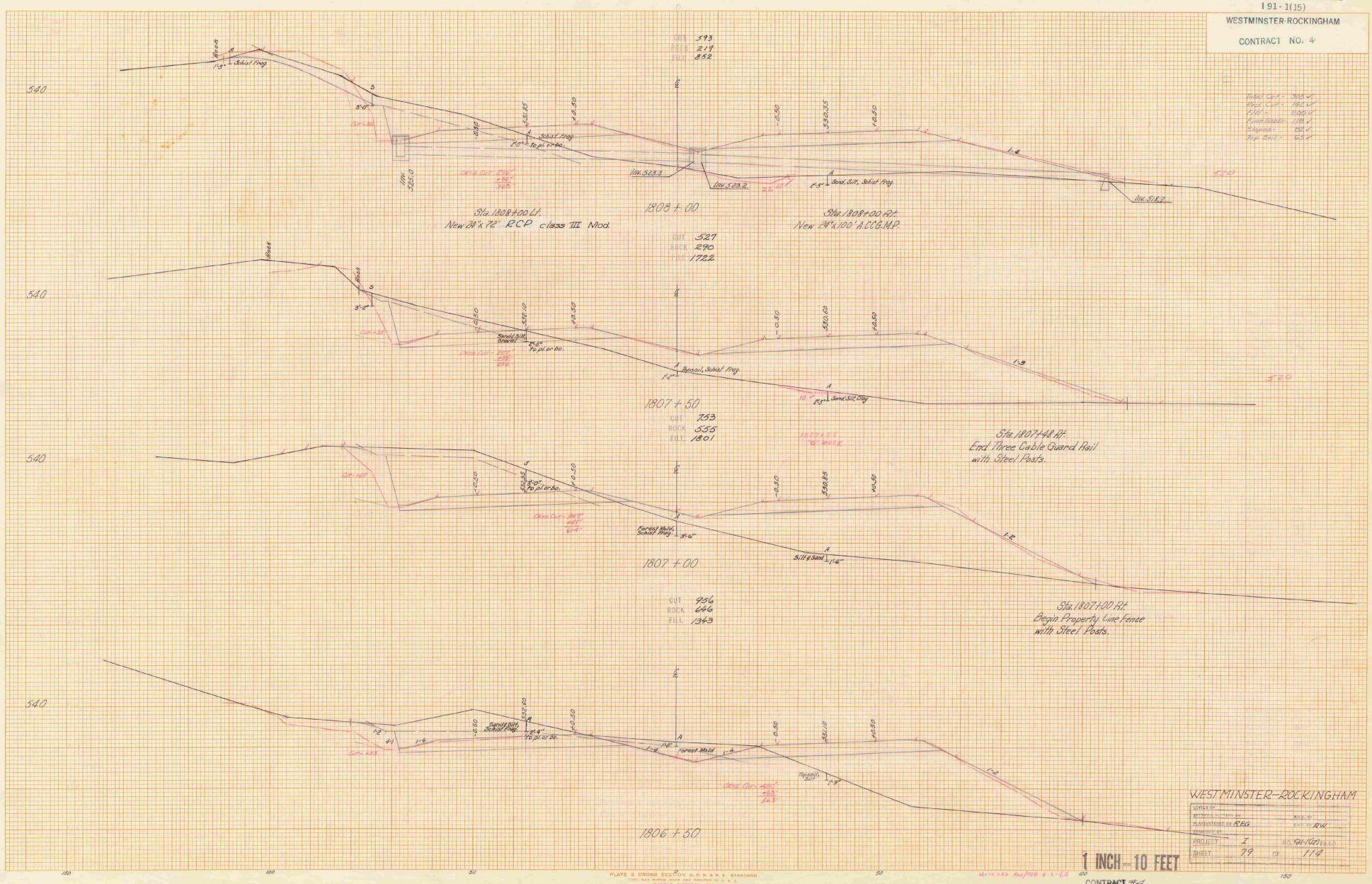
FINAL SURVEY — SURVEYED / PLOTTED / AREAS CHECKED — NOTE BOOK — NO. — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / AREAS CHECKED — NOTE BOOK — NO. — DATE

I 91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



CUT 593
ROCK 219
FILL 852

CUT 527
ROCK 290
FILL 1722

CUT 753
ROCK 555
FILL 1801

CUT 956
ROCK 646
FILL 1343

Total Cut - 305 cy
Rock Cut - 192 cy
Fill - 1100 cy
Topsoiled - 115 cy
Shapes - 130 cy
Top Soil - 65 cy

1 INCH = 10 FEET

PLATE 3 CROSS SECTION D.P.R. & R.E. STANDARD
1000 RAT WORK-MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

Marked Approved 4-2-63

Plan r by REG. 10-25-63

WESTMINSTER-ROCKINGHAM

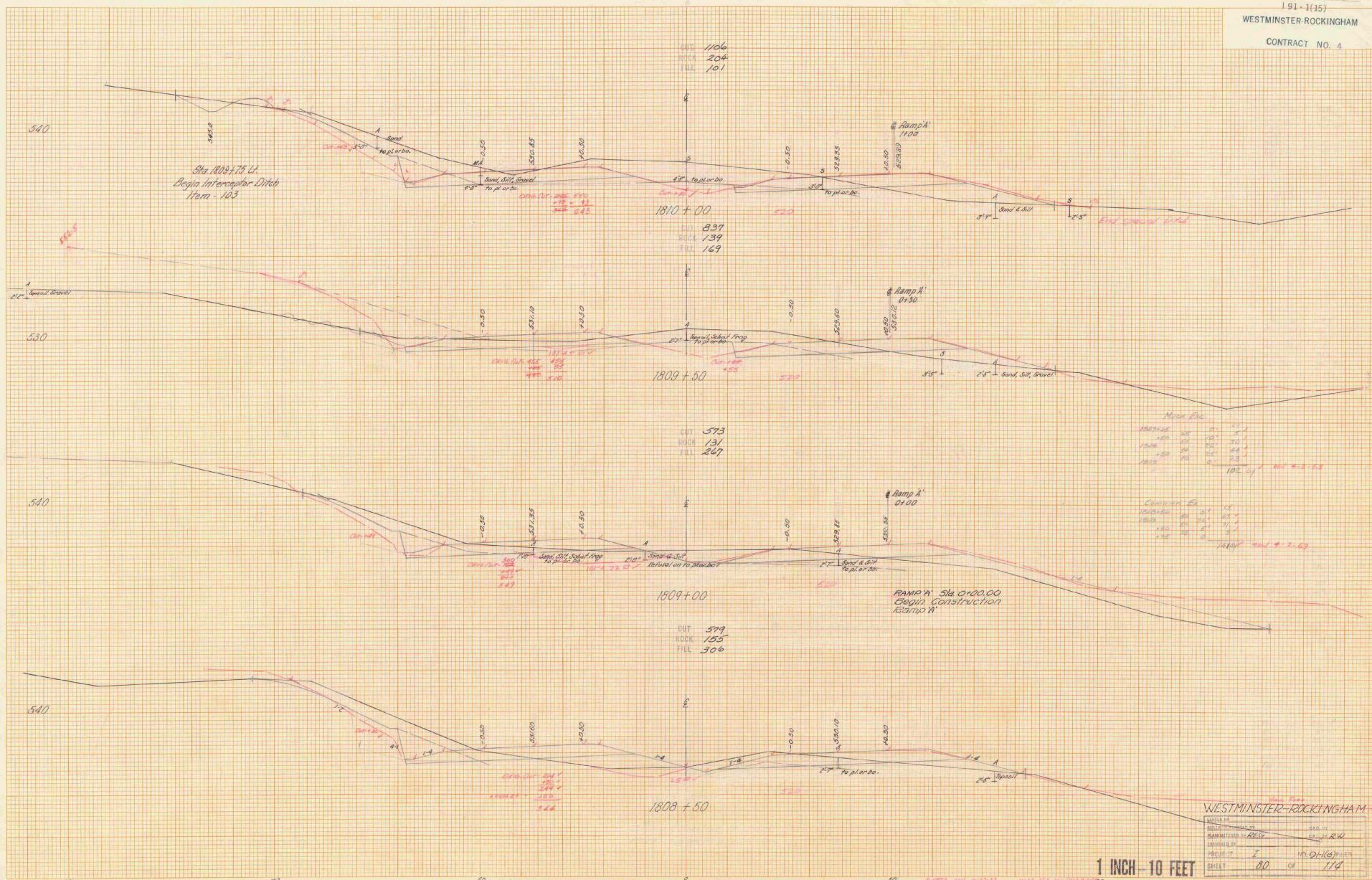
LEVELS BY
METHODS SURVEY BY
PLANIMETERED BY REG
PRINTED BY
DRAWN
CHECKED RW
PROJECT I
NO. 91-1(15) FILED
SHEET 79 OF 114

CONTRACT #4-4

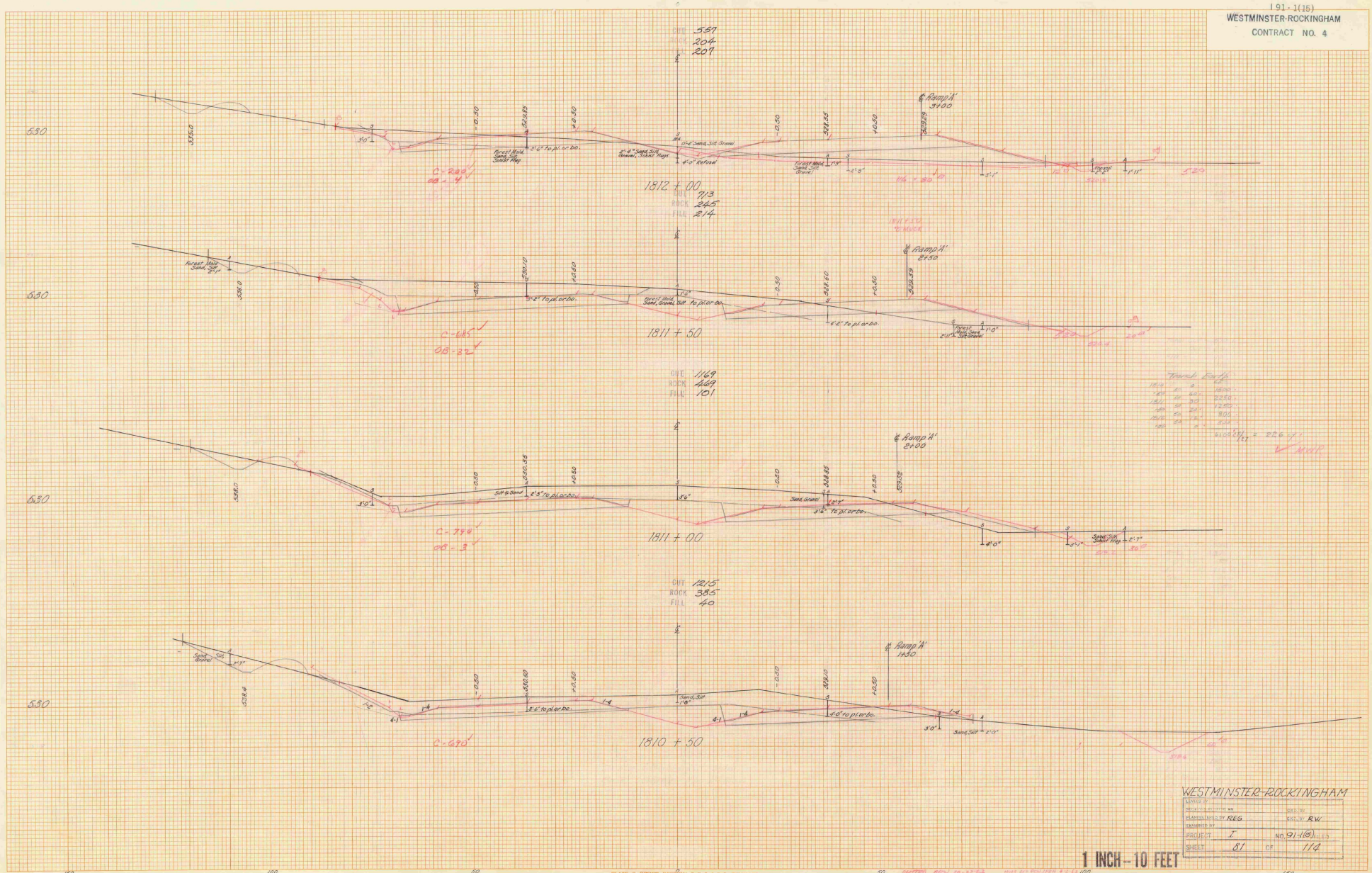
Sta. 1806+50 - Sta. 1808+00

FINAL SURVEY
SURVEYED
PLOTTED
DRAWN
CHECKED
DATE
SCALE
NO.

ORIGINAL SURVEY
SURVEYED
PLOTTED
DRAWN
CHECKED
DATE
SCALE
NO.


191-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4
CUT 1106
ROCK 204
FILL 101
Sta. 1809+75 Lt.
Begin Interceptor Ditch
Item - 103
Ramp 'A' 1+00
1810+00
CUT 839
ROCK 139
FILL 169
Ramp 'A' 0+50
1809+50
CUT 573
ROCK 131
FILL 269
Ramp 'A' 0+00
1809+00
CUT 579
ROCK 155
FILL 306
RAMP 'A' Sta. 0+00.00
Begin Construction
Ramp 'A'
1808+50
Sand
to pl. or bo.
Sand, Silt, Gravel
to pl. or bo.
Topsoil, Gravel
Topsoil, School Frog
to pl. or bo.
Sand, Silt, School Frog
to pl. or bo.
Sand & Silt
Refusal on to pl. or bo.
Sand & Silt
to pl. or bo.
Topsoil
Sand, Silt, Gravel
Sand & Silt
Muck Ex.
Common Ex.
WESTMINSTER-ROCKINGHAM
1 INCH = 10 FEET
CONTRACT #4
Sta. 1808+50 - Sta. 1810+00
PLATE 3 CROSS SECTION 5 P. E. S. R. E. STANDARD
EUGENE DIETZGEN CO.

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



Transl. Roads

1810	0	0	0
+50	50	50	1650
1811	100	50	3250
+50	150	50	12750
1812	200	50	800
+50	250	50	3250
1813	300	50	0

61,000 CY ÷ 222 = 275'

WESTMINSTER-ROCKINGHAM

LAYOUT BY	RED BY
PLANIMETERED BY REG	RED BY RW
EXAMINED BY	
PROJECT I	NO. 91-1(15) FILES
SHEET 81	OF 114

1 INCH = 10 FEET

CONTRACT 4

Sta 1810+50 – Sta 1812+00

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER - MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FINAL PLAN J.W. 10-25-63

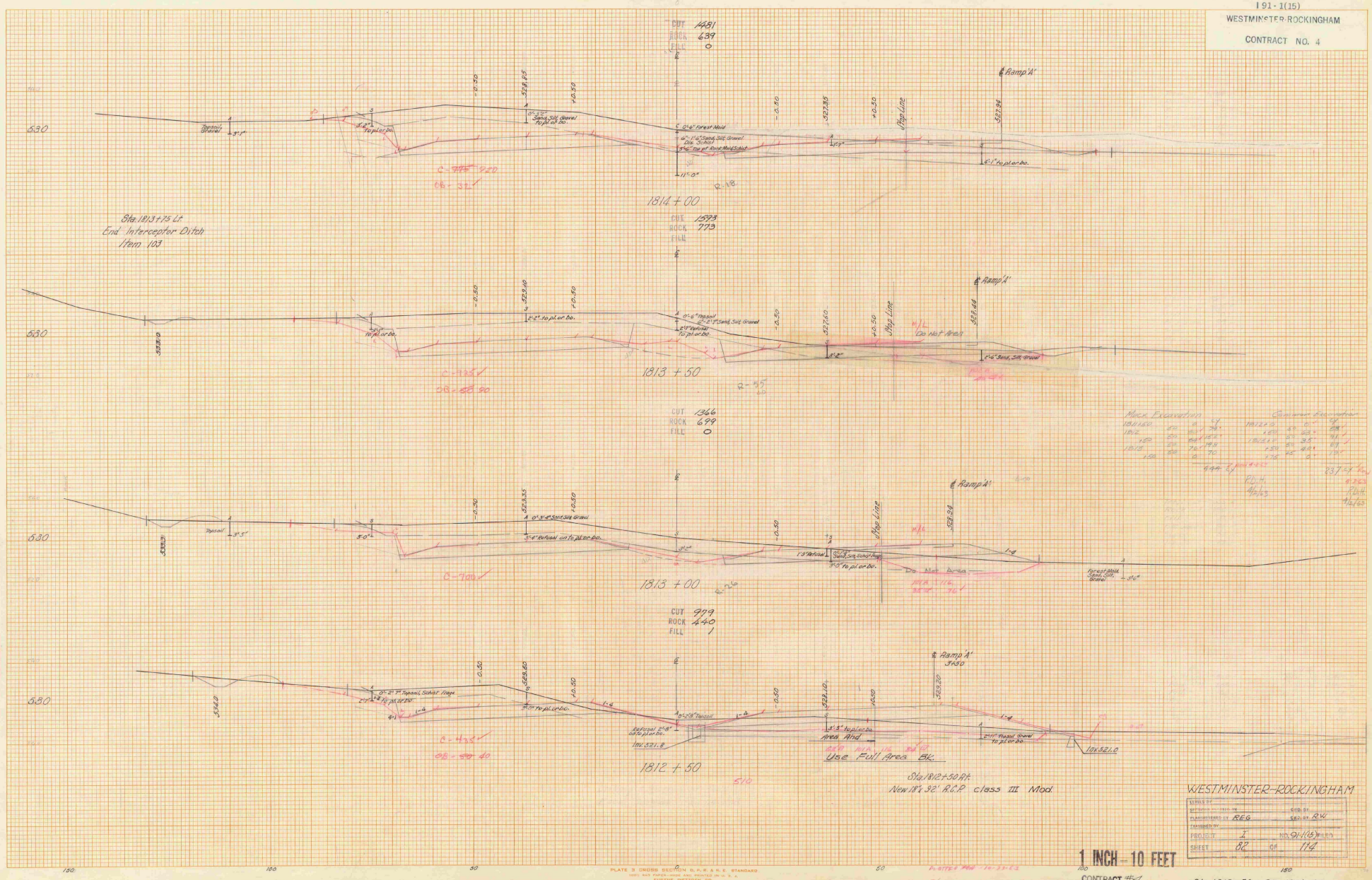
PATTERN ADD'D 10-25-63

MISC. CK'D 10-28-63

I 91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



Mech Excavation

1811.00	0	C.Y.	
1812	50	74.	
100	100	148.	
1813	50	74.	
100	100	148.	
		444. C.Y.	

Common Excavation

1811.00	0	C.Y.	
1812	50	74.	
100	100	148.	
1813	50	37.	
100	100	148.	
1814	50	74.	
100	100	148.	
		629. C.Y.	

1073. C.Y. Total

P.D.H. 4/16/63

0.763

P.D.H. 4/16/63

1 INCH = 10 FEET

CONTRACT #4

Sta 1812 + 50 – Sta 1814 + 00

WESTMINSTER-ROCKINGHAM

SCALES H	SCALE
SECTION — TRIED ON	SCALE
PLANIMETERED BY REG	SCALE RW
TABULATED BY	
PROJECT I	NO. 91-1(15)
SHEET 82	OF 114

PLATE 3 CROSS SECTION PAPER STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

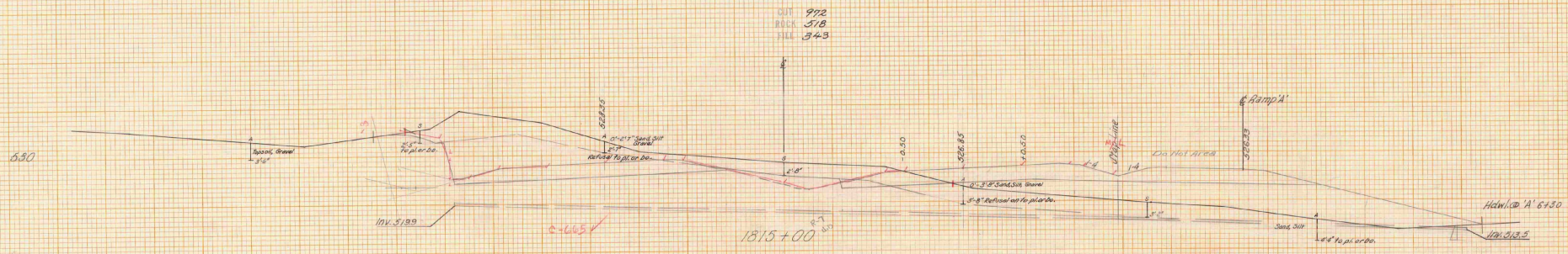
FINAL SURVEY — SUBMITTED — PLOTTED — NOTE BOOK — AREAS CHECKED — DATE — BY — NO.

ORIGINAL SURVEY — SUBMITTED — PLOTTED — NOTE BOOK — AREAS CHECKED — DATE — BY — NO.

I 91 - 1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

PLANIMETERED BY REG CKD BY RW

PROJECT I NO. 91-1(15) FILED

SHEET 80 OF 114

1 INCH = 10 FEET

CONTRACT #4

Sta. 1814+50 – Sta. 1815+00

PLATE 3 CROSS SECTION D. P. R. & R. C. STANDARD
1957 PAT PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

PLOTTED REV. 10-24-63

Plan cut REB 11/15/63

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TRAVERSE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED E. Sapp
PLOTTED Wallace Lloyd 2-25-58
TRAVERSE Bowles
AREAS
AREAS CHECKED
BY
DATE

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

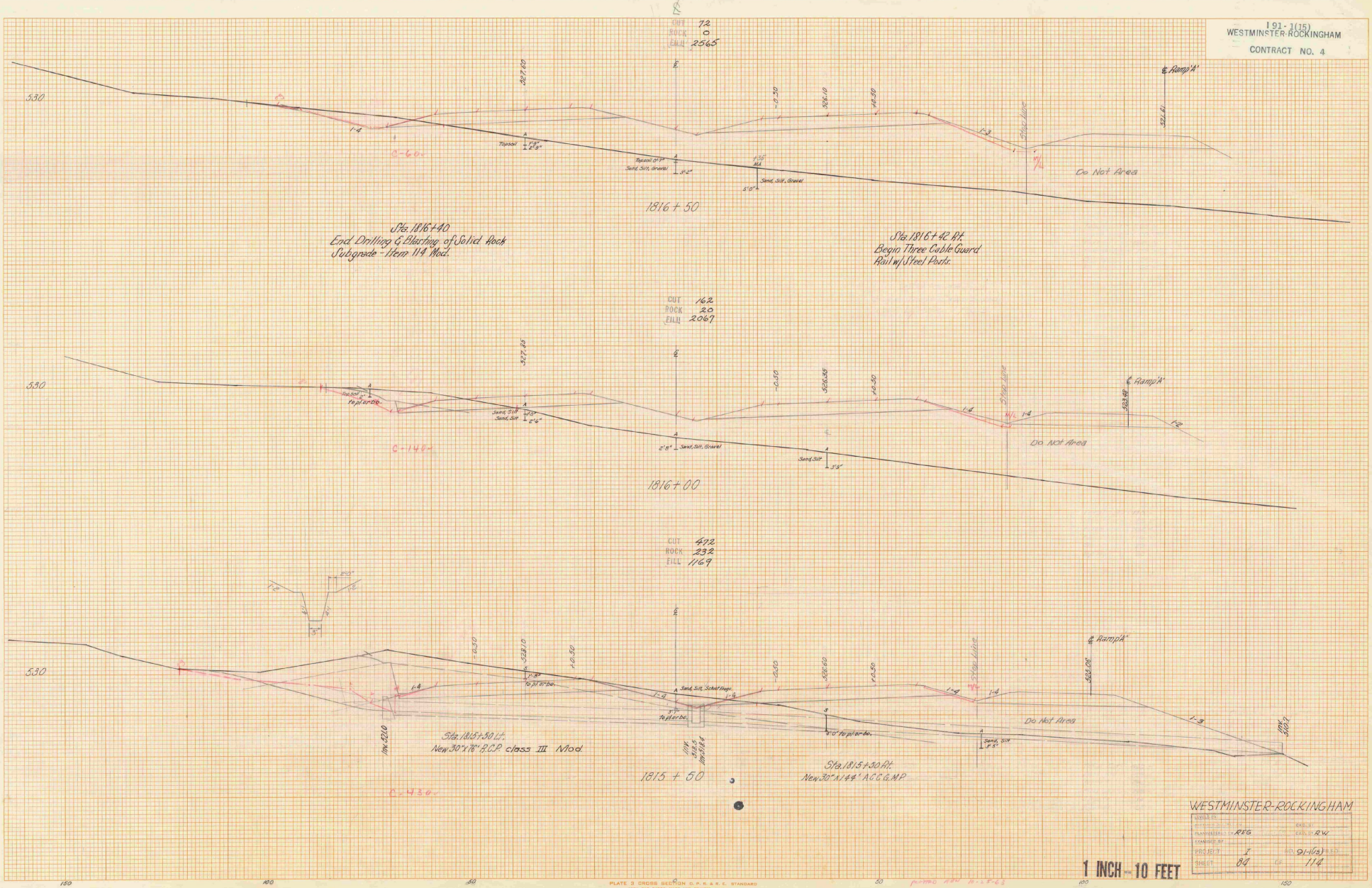


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1000 MAP PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

1 INCH = 10 FEET

WESTMINSTER-ROCKINGHAM
DAVIS CO.
PLANIMETERED BY REG
EXAMINED BY
PROJECT I
SHEET 84

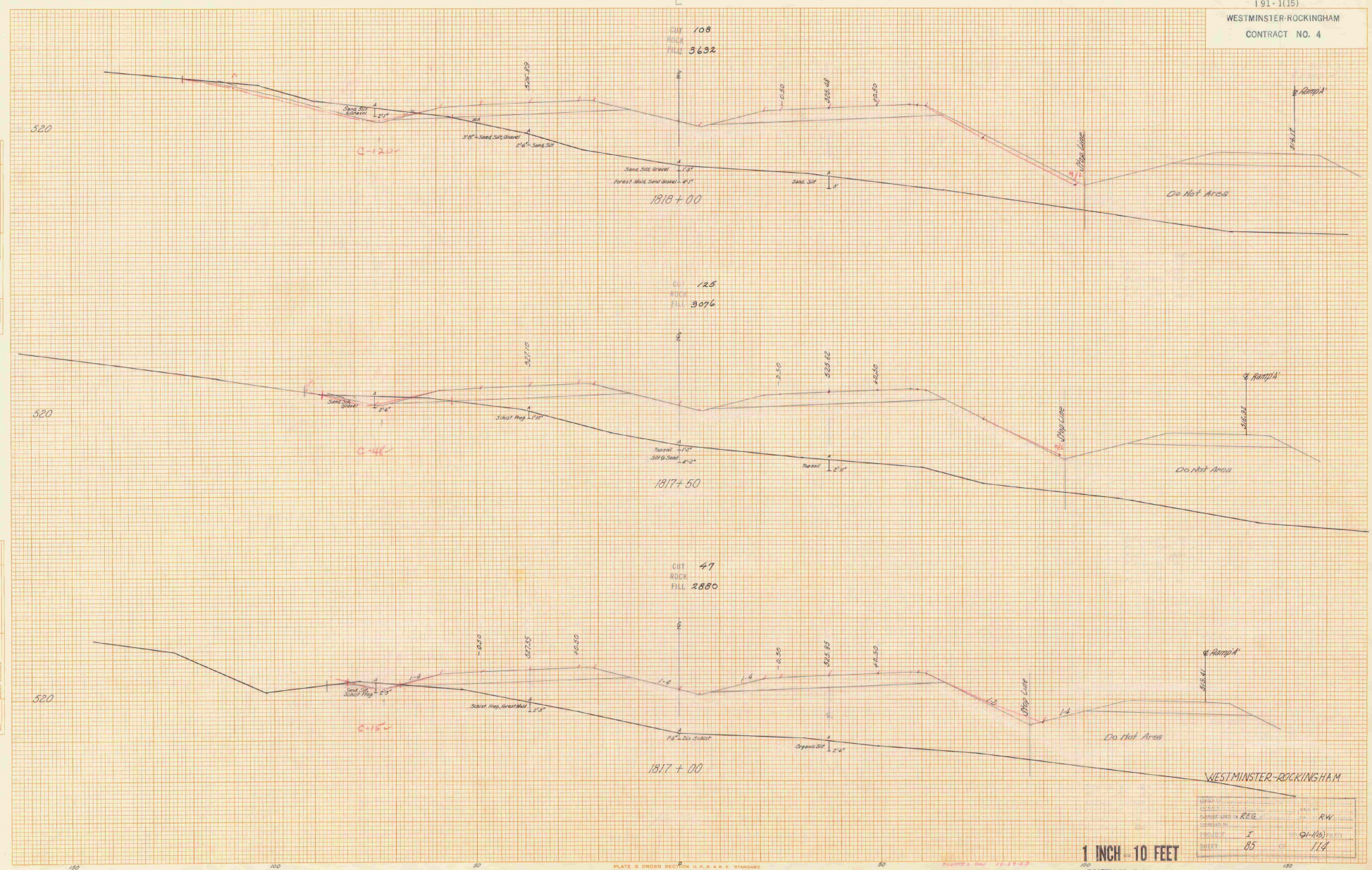
CONTRACT #4

Sta 1815+50 - Sta 1816+50

191-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

1 INCH = 10 FEET

CONTRACT #4

Sta. 1817+00 - Sta. 1818+00

PLATE 3 CROSS SECTION C.P.R. & E. STANDARD

1001 RAG PAPER MADE AND PRINTED IN U.S.A.

EUGENE DIETZGEN CO.

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

CUT 0
ROCK
FILL 4907

1819 + 50

CUT 0
ROCK
FILL 4565

1819 + 00

CUT 19
ROCK
FILL 4171

1818 + 50

Sta 1818+50 Lt.
New 30"x 80' R.C.P. class III Mod

Sta 1818+50 Rt.
New 30"x 56' A.C.C.G.M.P.
2-30"x 6"x 25° A.C.C.G.M.P. Elbows
w/ 2' Coupling bands at all joints.

Do Not Area

Ramp A

Do Not Area
See Ramp 'A' Sta 9+82 for Cont of pipe

WESTMINSTER-ROCKINGHAM

	REG	R.W.
PROJECT	I	91-1(15)
SHEET	86	114

1 INCH - 10 FEET

CONTRACT #4

Sta 1818+50 - Sta 1819+50

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
1001 BAR PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

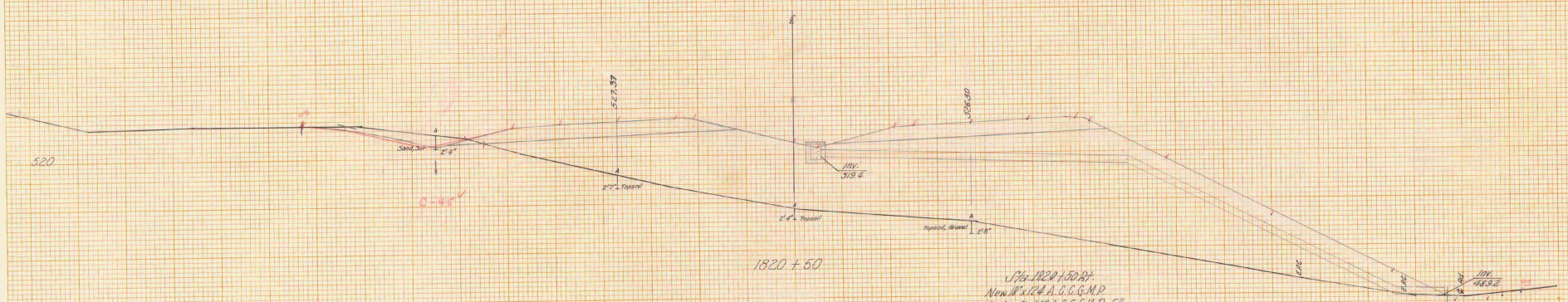
FINAL PLAN, CHECKED JM 10-25-63

FINAL SURVEY
DRAWN
PLOTTED
TRACED
NOTE BOOK
AREAS CHECKED
NO.

ORIGINAL SURVEY
DATE 2-22-63
BY Wolfgang
DRAWN Gardner
PLOTTED
TRACED
NOTE BOOK
AREAS CHECKED
NO.

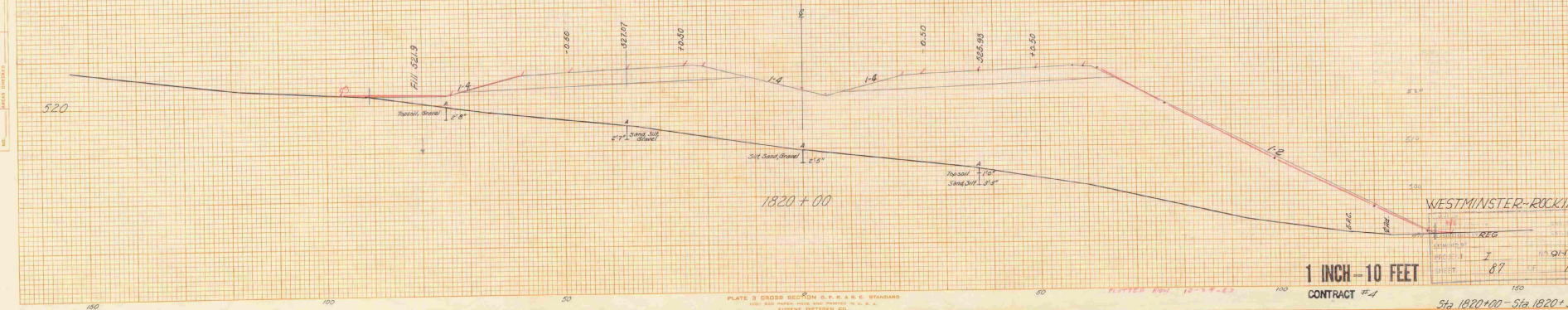
I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

CUT 102
ROCK
FILL 4970



Sta 1820+50.27:
New 18"x124 A.C.C.G.M.P.
2-18"x6"x25° A.C.C.G.M.P. Elbows
w/ 2' Coupling bands at all joints.

CUT 45
ROCK
FILL 4904



WESTMINSTER-ROCKINGHAM
REG
R.W.
91-1(05)
SHEET 87 OF 114

1 INCH = 10 FEET
CONTRACT #4

Sta 1820+00 - Sta 1820+50

PLATE 3 CROSS SECTION O. P. R. & N. E. STANDARD
1001 RAG PAPER, PASTE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

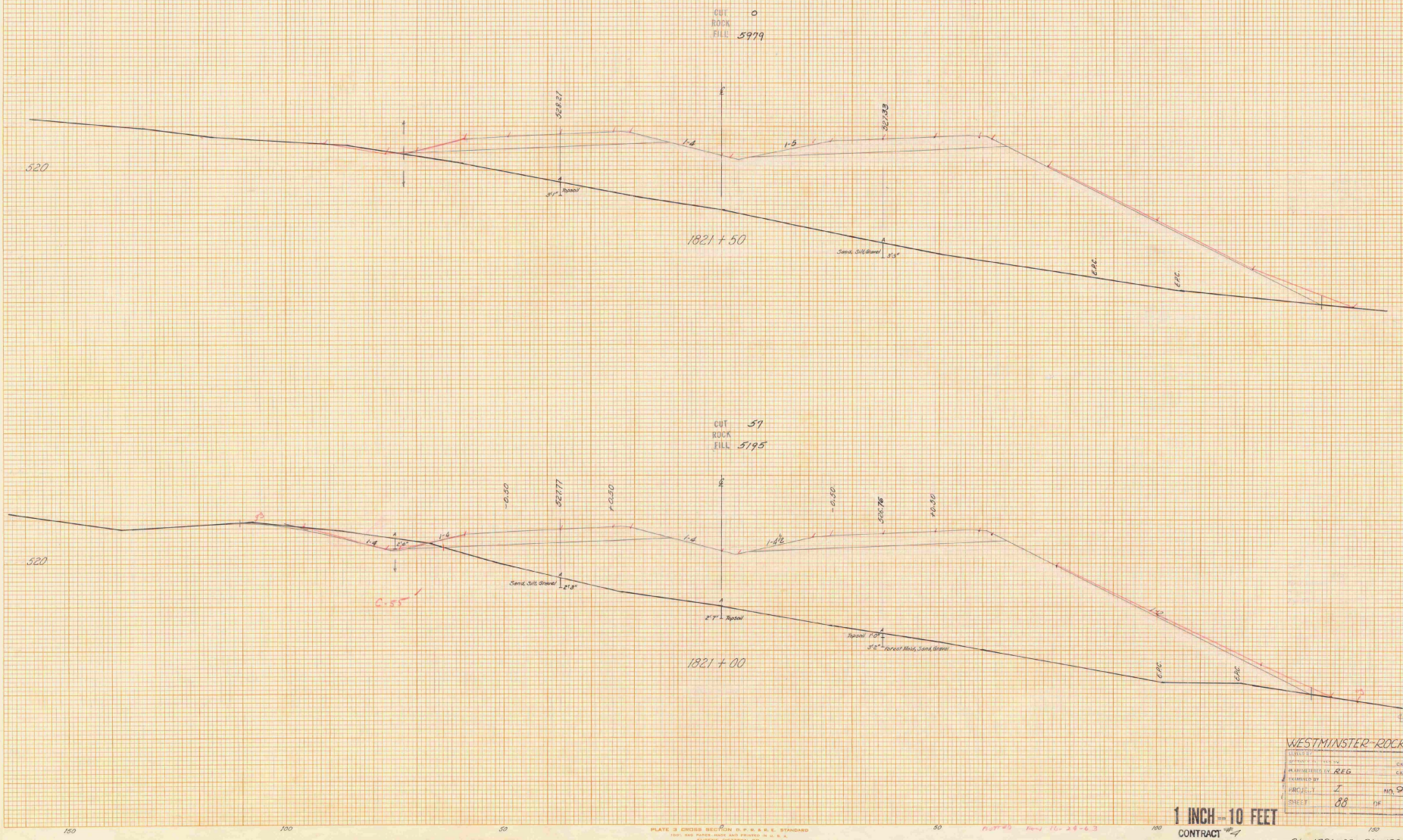
FINAL DIAN CHECKED JW 10-25-63

ACCEPTED ROW 10-24-63

FINAL SURVEY
DIRECTED
PLOTTED
NOTE BOOK
AREAS CHECKED
NO.

ORIGINAL SURVEY
DIRECTED
PLOTTED
TRACED
NOTE BOOK
AREAS CHECKED
NO. 7-2358

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



CUT 59
ROCK
FILL 5195

FINAL SURVEY
SURVEYED
TYPEWRITE
NOTE BOOK
NO.
AREAS CHECKED
DATE
BY

ORIGINAL SURVEY
SURVEYED
TYPEWRITE
NOTE BOOK
NO.
AREAS CHECKED
DATE
BY

WESTMINSTER-ROCKINGHAM
CHK'D BY RW
PLANIMETERED BY REG
EXAMINED BY
PARCEL 1
STREET 88
NO. 91-105 FILED
OF 114

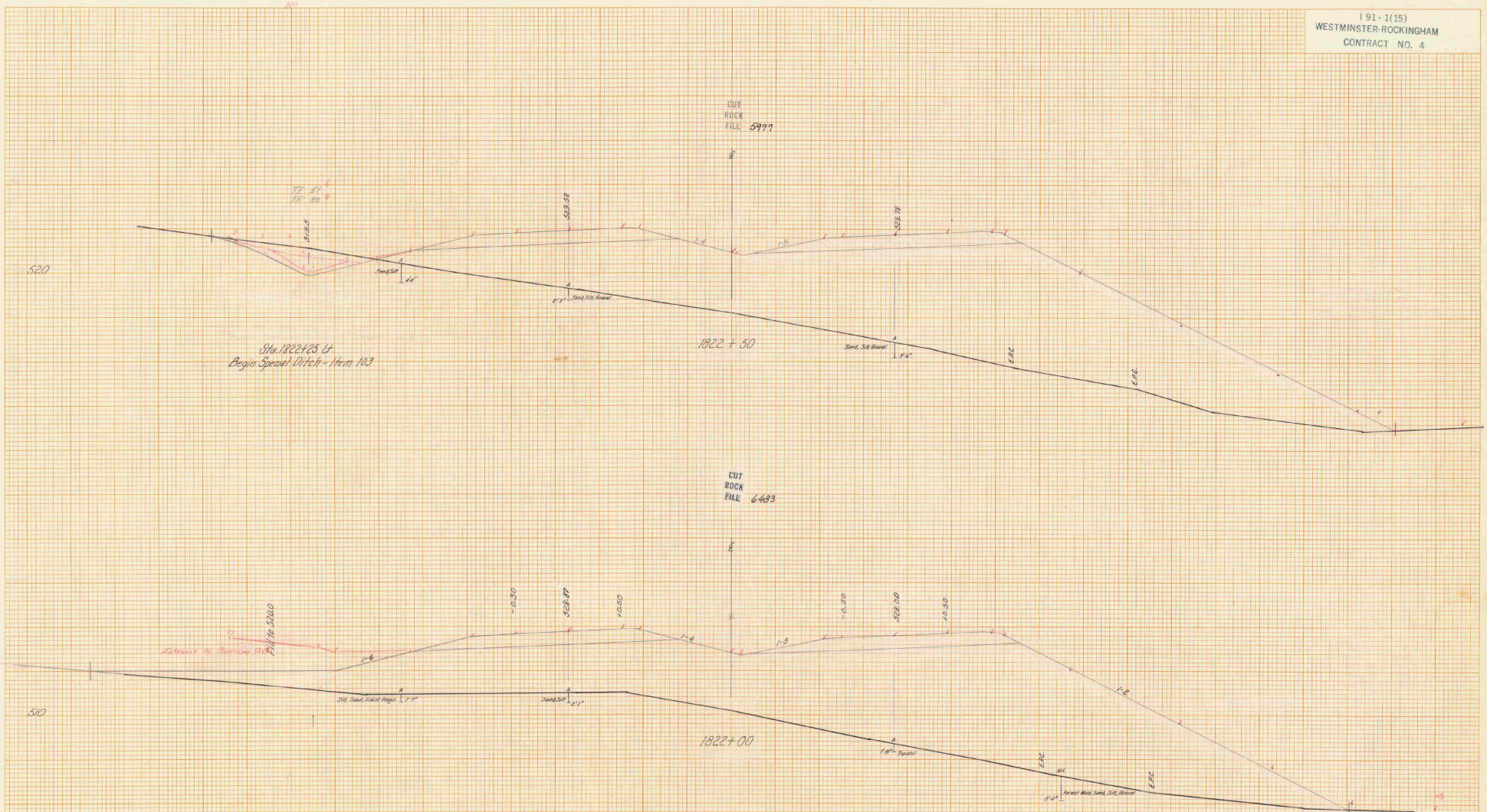
1 INCH = 10 FEET
CONTRACT NO. 4

Sta. 1821+00 - Sta. 1821+50

PLATE 3 CROSS SECTION U. P. W. A. R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FINALS REDI CHECKED 10-25-63 RW

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

PLANIMETERED BY	REG
EXAMINED BY	
PROJECT	I 91-1(15)
SHEET	89 114

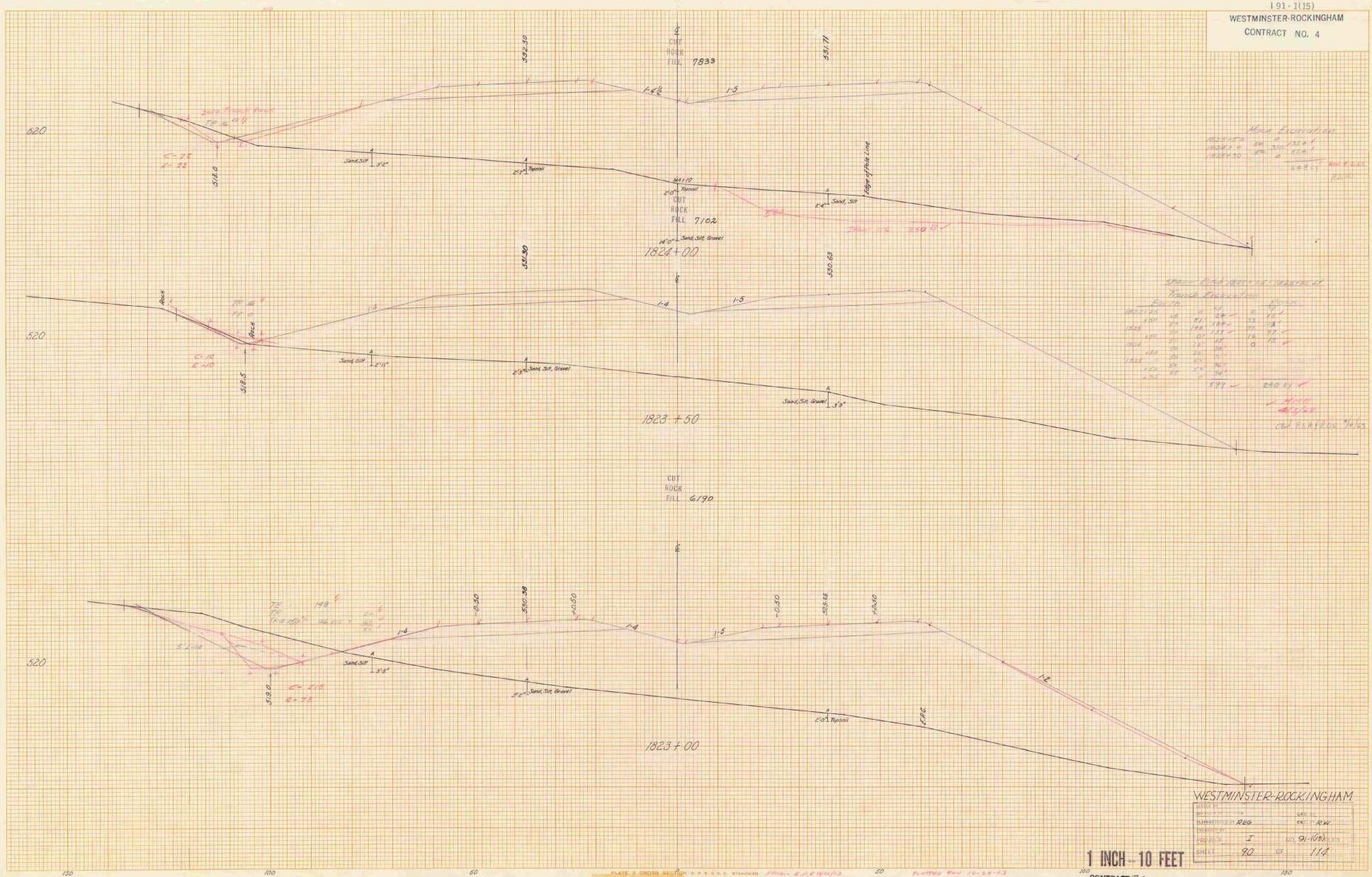
1 INCH – 10 FEET
CONTRACT No. 4

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
1000 L MAP PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

PLOTTED FROM 10-24-63

Sta. 1822+00 – Sta. 1822+50

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



1 INCH = 10 FEET

WESTMINSTER-ROCKINGHAM
PROJECT I NO. 91-1(15)
SHEET 90 OF 114

CONTRACT 94-4

Sta 1823+00 – Sta 1824+00

PLATE 2 CROSS SECTION D. P. R. & R. E. STANDARD PRINT: 6/26/63
UNDERSIDE TICKS, NAME AND PRINTED IN U. S. A.
DIRKINE WETTEEN CO.
PLOTTER REV 10-28-63

191-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4

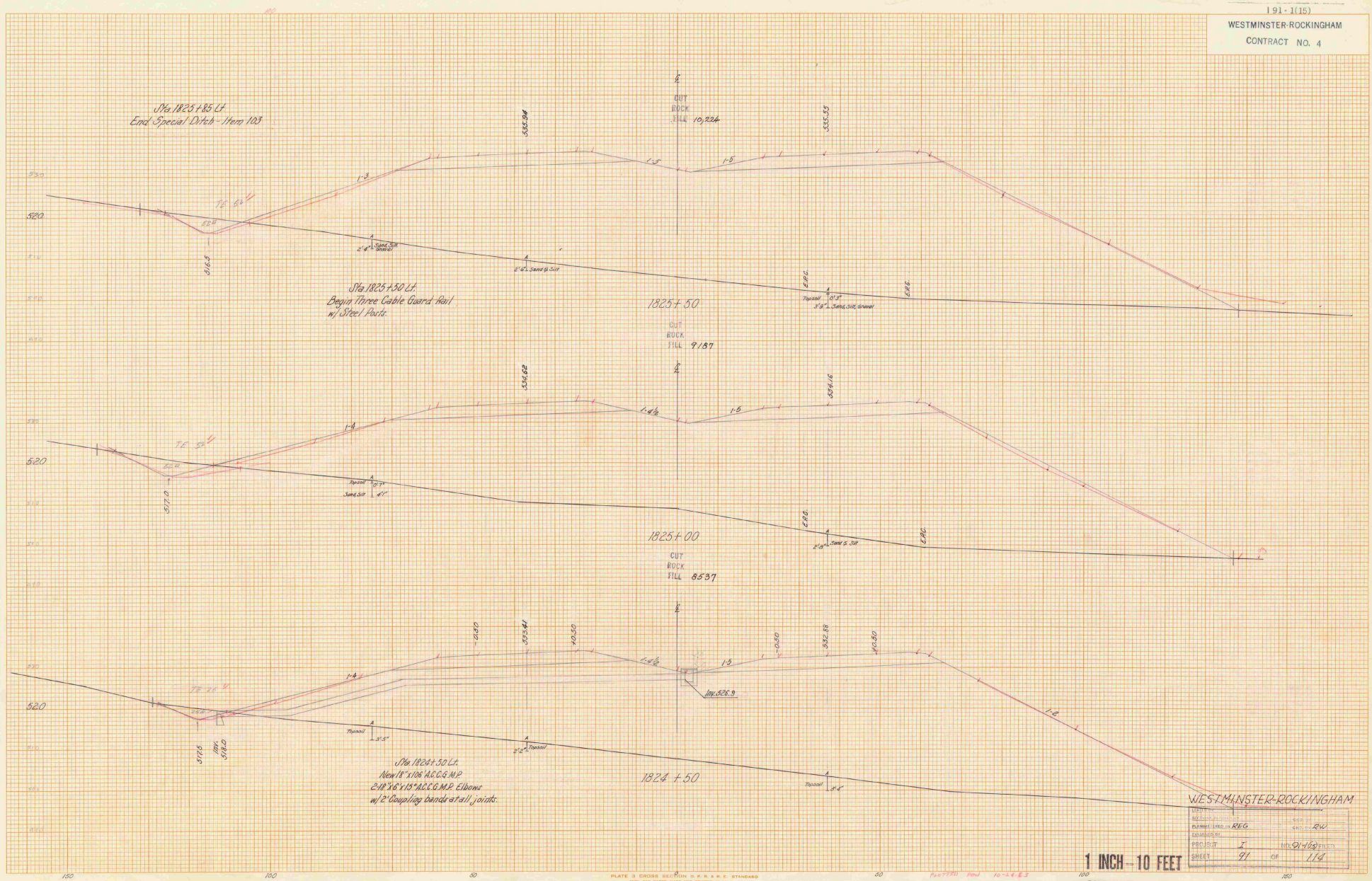


PLATE 3 CROSS SECTION D.P.R.R.E. STANDARD
100% RAG PAPER - MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

WESTMINSTER-ROCKINGHAM

DESIGNED BY REG

DRAWN BY RW

CHECKED BY

PROJECT 7 NO. 91-1(15)

SHEET 91 OF 114

1 INCH = 10 FEET

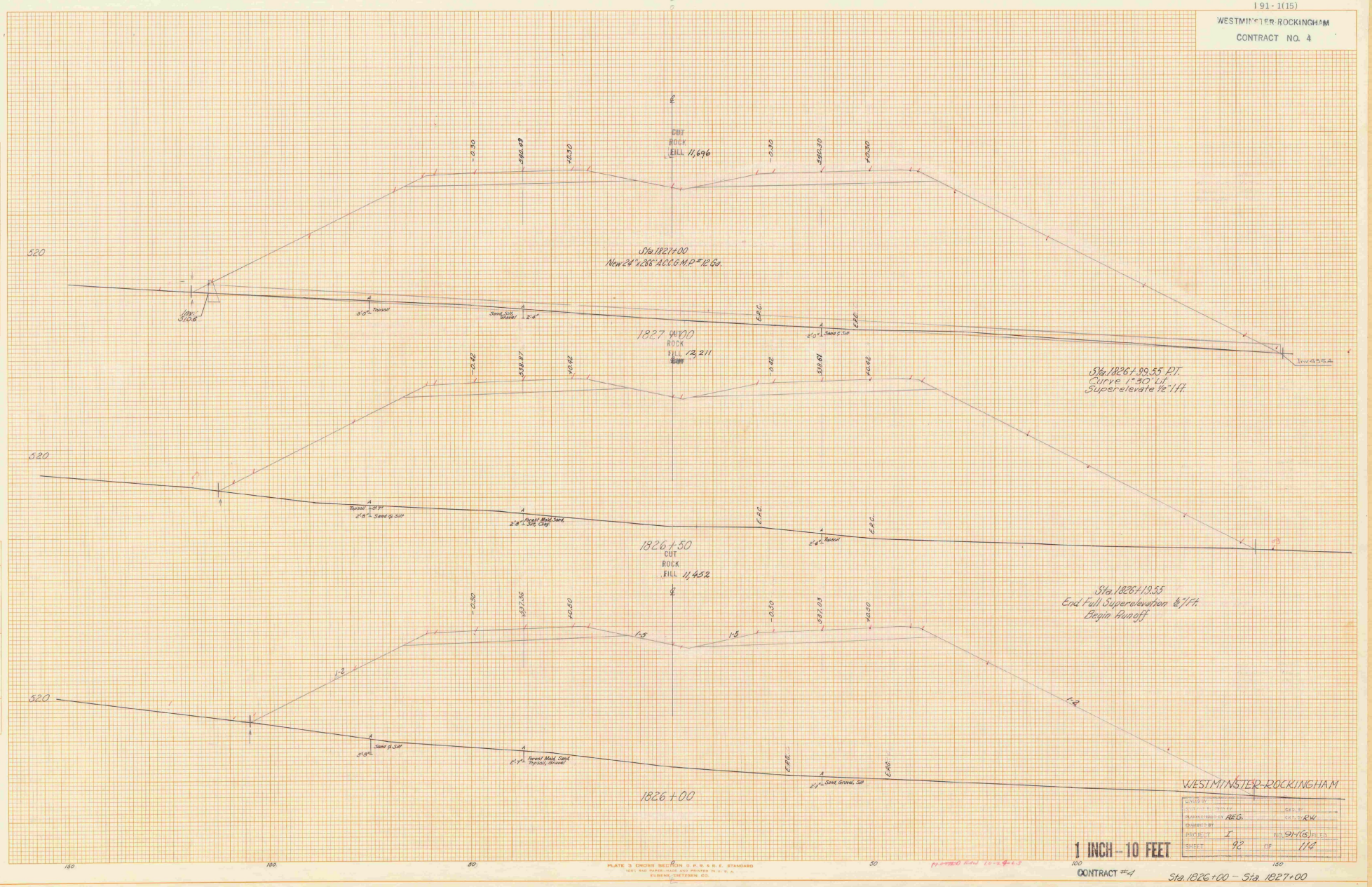
CONTRACT #4

Sta 1824+50 - Sta 1825+50

I 91-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



1 INCH = 10 FEET

CONTRACT #4

Sta. 1826+00 – Sta. 1827+00

PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

PLOTTED FROM 16-4-4-3

PLANNED BY REG. CHECKED BY R.W.

EXAMINED BY

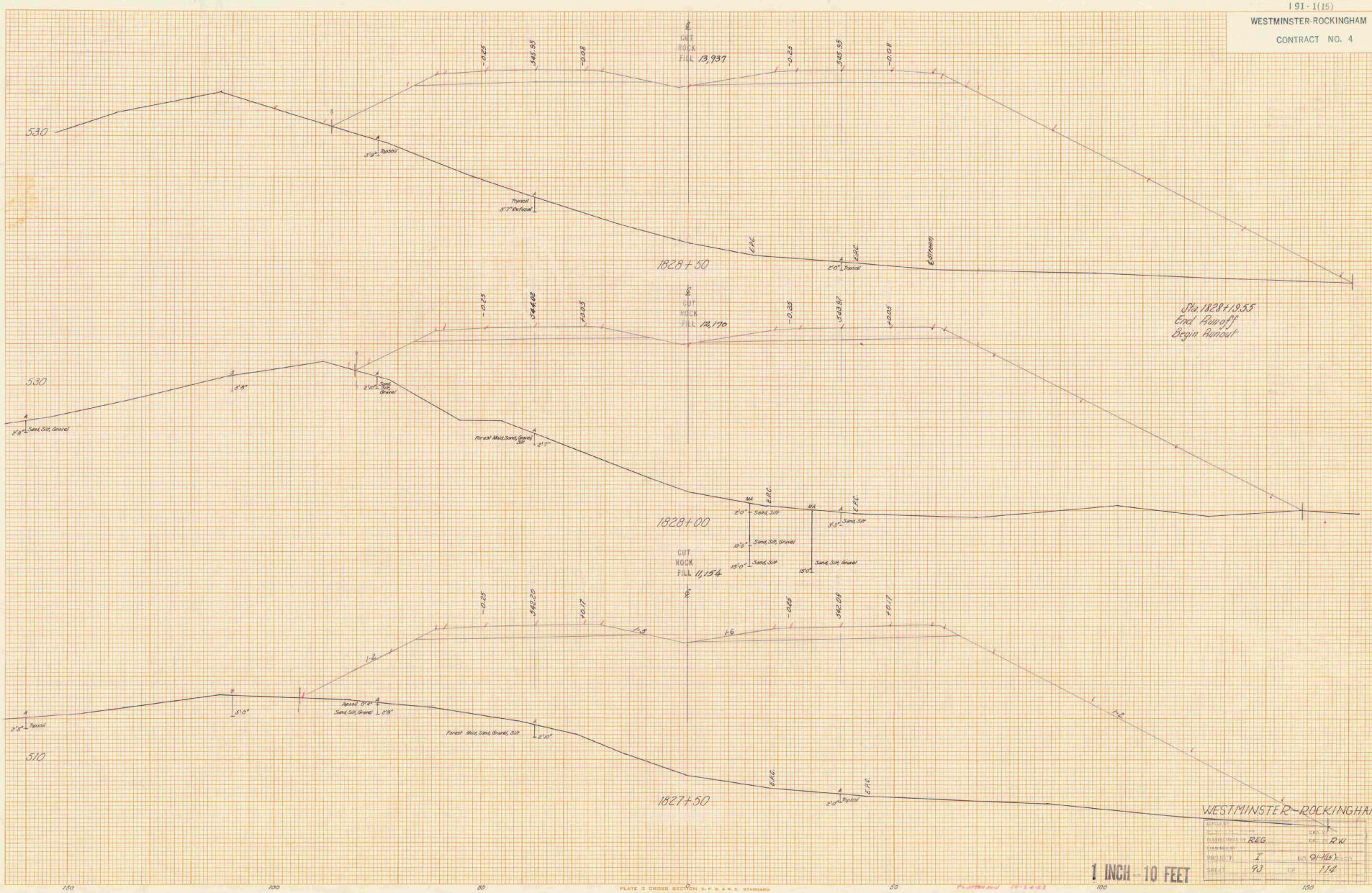
PROJECT I NO. 91-1(15) FILED

SHEET 92 OF 114

191-1(15)

WESTMINSTER-ROCKINGHAM

CONTRACT NO. 4



FINAL SURVEY — SURVEYED — PLOTTED — TRACED — NOTE BOOK — NO. — DATE — BY

ORIGINAL SURVEY — SURVEYED — PLOTTED — TRACED — NOTE BOOK — NO. — DATE — BY

WESTMINSTER-ROCKINGHAM

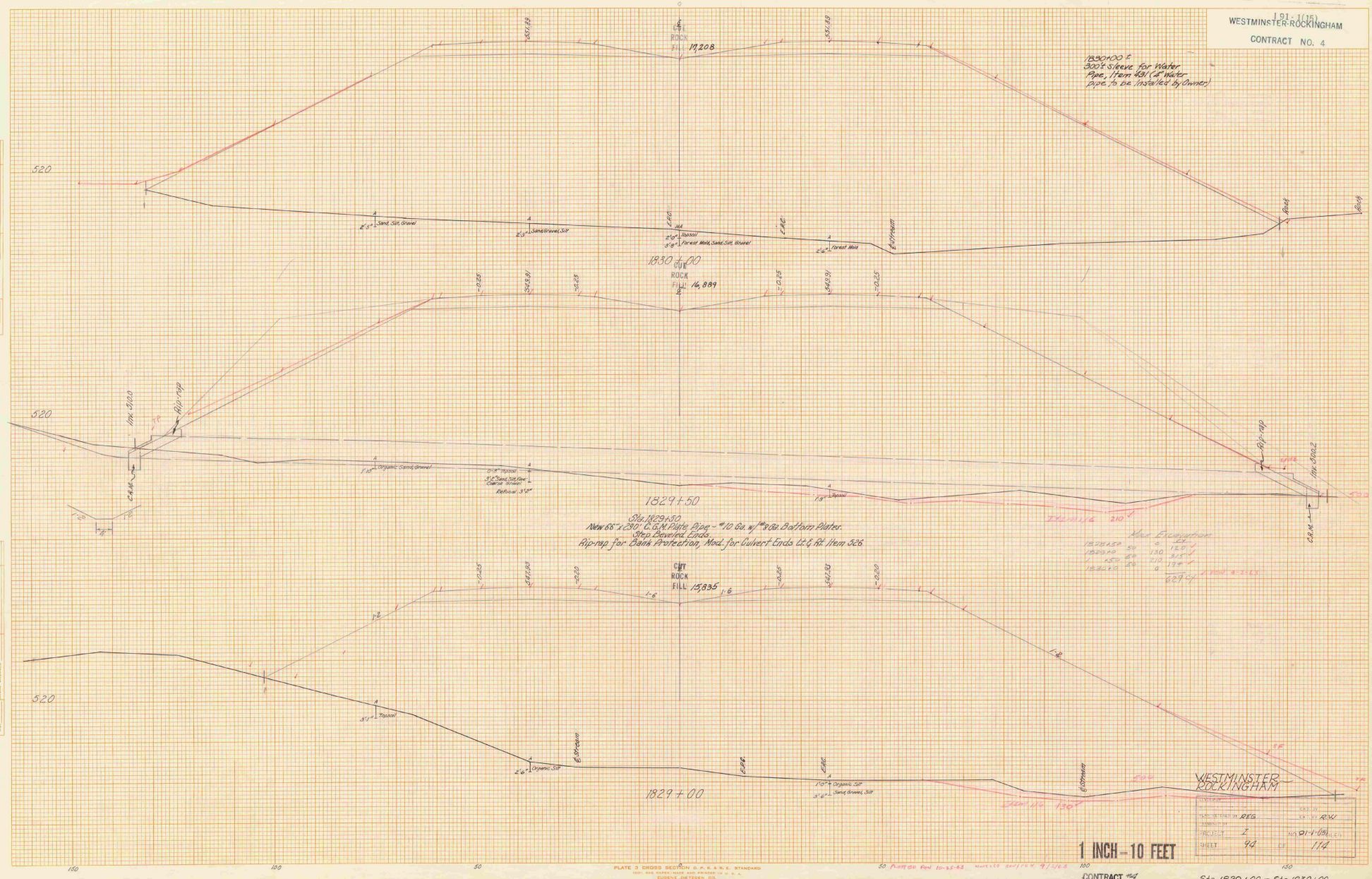
SURVEY BY
COMPUTED BY
CHECKED BY REG
TRACED BY
PROJECT I
SHEET 93 OF 114
GRD. 1
CHK. BY RW
NO. 91-1(15)

1 INCH = 10 FEET

CONTRACT #-1

Sta. 1827+50 - Sta. 1828+50

PLATE 3 CROSS SECTION S. P. R. A. R. E. STANDARD
1000 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.


191 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4
1830+00 ℄
300'± sleeve for Water Pipe, Item 491 (8" Water pipe to be installed by Owner)
CUT
ROCK
FILL 17,208
1830+00
CUT
ROCK
FILL 16,889
1829+50
Sta. 1829+50
New 66"x 280' C.G.M. Plate Pipe - #10 Ga. w/ #8 Ga. Bottom Plates.
Step Beveled Ends.
Rip-rap for Bank Protection, Mod. for Culvert Ends Ct. & Ft. Item 526
CUT
ROCK
FILL 15,835
1829+00
520
Sand, Silt, Gravel
Sand, Gravel, Silt
Topsoil
Forest Mold, Sand, Silt, Gravel
Forest Mold
Rip-rap
Organic Sand, Gravel
Topsoil
Organic Silt
Sand, Gravel, Silt
E. Stream
Mod. Excavation
629 CY
WESTMINSTER
ROCKINGHAM
1 INCH = 10 FEET
CONTRACT #4
Sta. 1829+00 - Sta. 1830+00

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

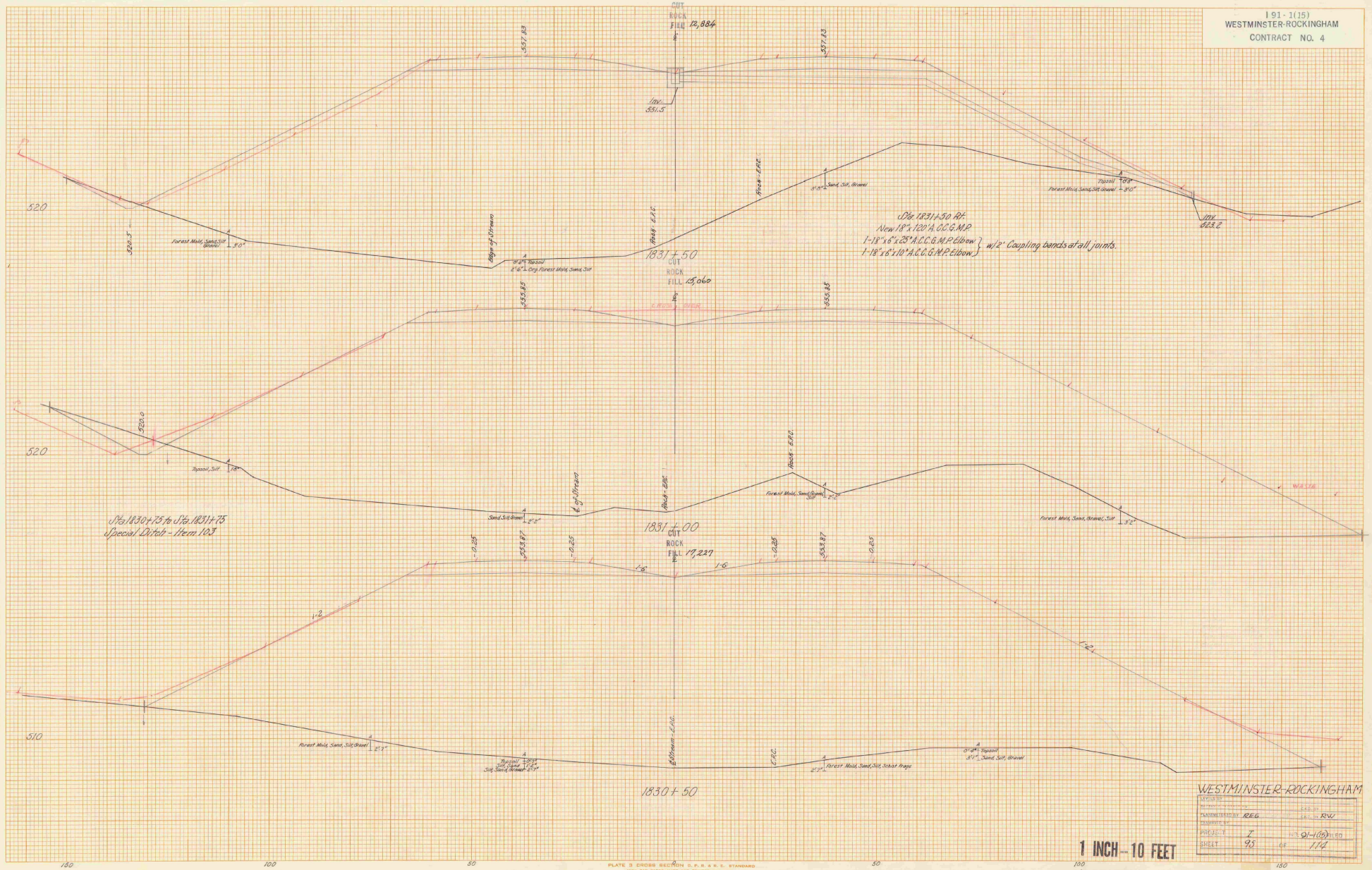


PLATE 3 CROSS SECTION U. P. R. & R. C. STANDARD
1000 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

1 INCH = 10 FEET

CONTRACT #4

WESTMINSTER-ROCKINGHAM

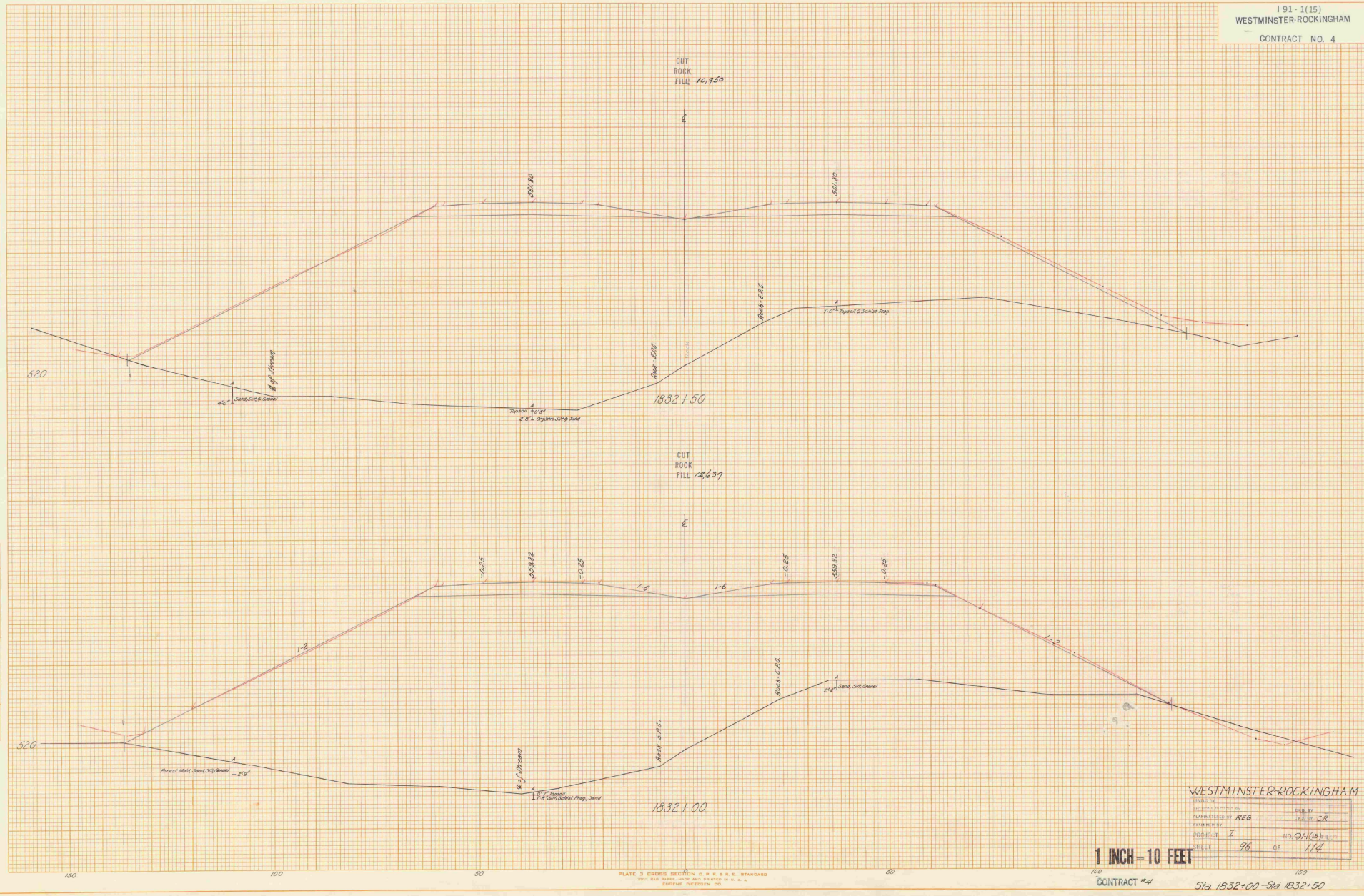
LEVELS BY	
METHOD	
PLANIMETERED BY	REG
TRANSFER BY	
PROJECT	I 91-1(15)
SHEET	95 OF 114

Sta 1830+50 - Sta 1831+50

FINAL SURVEY — SURVEYED, PLOTTED, AREAS, CHECKED, NOTE BOOK, NO.

ORIGINAL SURVEY — SURVEYED, PLOTTED, AREAS, CHECKED, NOTE BOOK, NO.

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY — DATE — BY — SUBMITTED — PLOTTED — KNIFE & FORK — MAPAS — CHECKED — NO.

ORIGINAL SURVEY — DATE 2-22-72 — BY Wolfgang - Hoeger — SUBMITTED — PLOTTED Schroeder — KNIFE & FORK — MAPAS — CHECKED — NO. 6058

PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
1000 RUB PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

WESTMINSTER-ROCKINGHAM

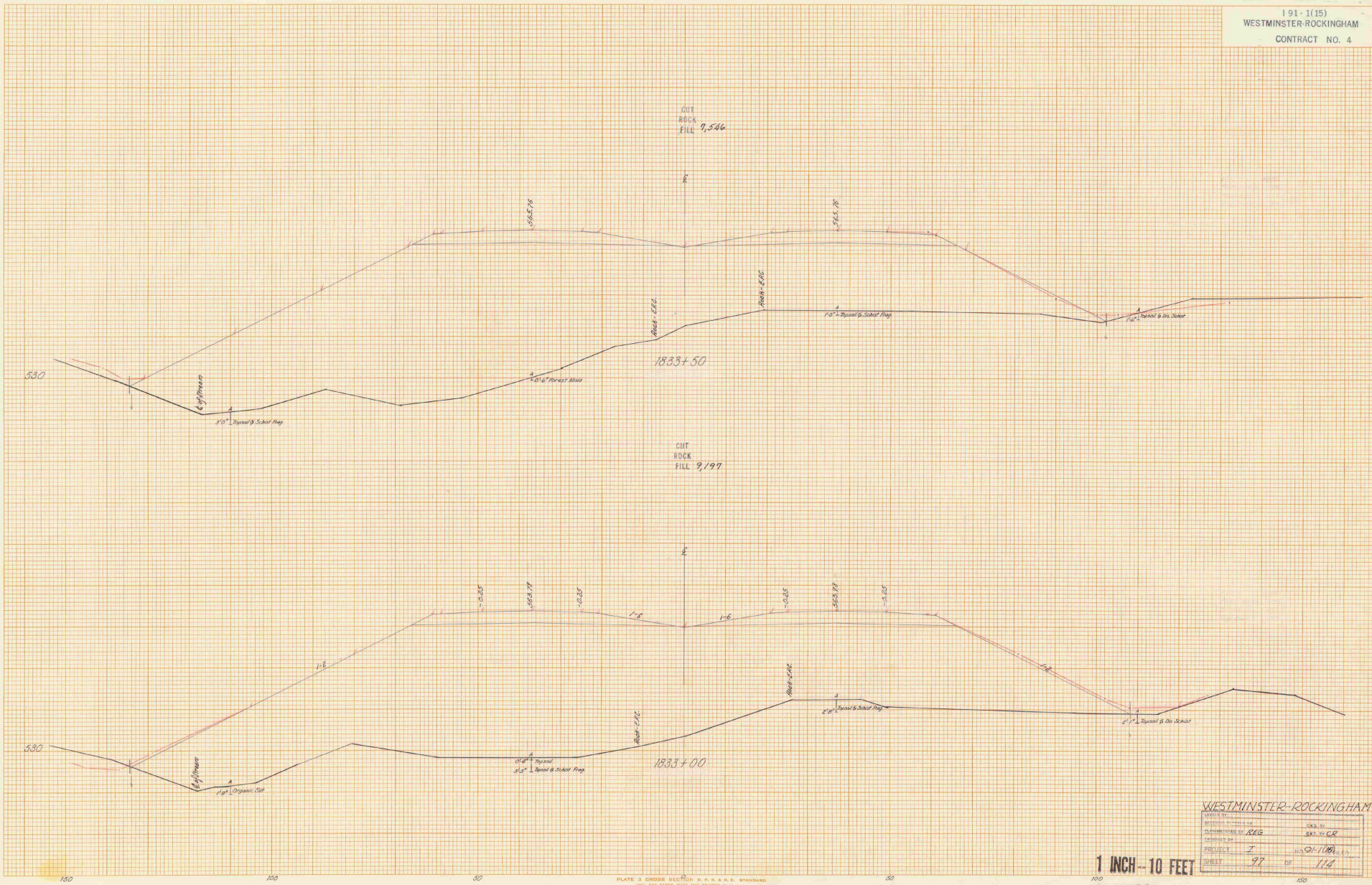
LEVELS BY	
SURVEYED BY	C&G BY
PLANIMETERED BY REG	CHECKED BY CR
TABULATED BY	
PROJECT I	NO. QH(15) PLOT
SHEET 96	OF 174

1 INCH = 10 FEET

CONTRACT #4

Sta 1832+00 - Sta 1832+50

I 91 · 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY
SURVEYED
PLOTTED
AREAS CHECKED
NOTE BOOK
NO.
BY
ADD'D

ORIGINAL SURVEY
SURVEYED
PLOTTED
AREAS CHECKED
NOTE BOOK
NO.
BY
CHKD

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
1931. RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

WESTMINSTER-ROCKINGHAM

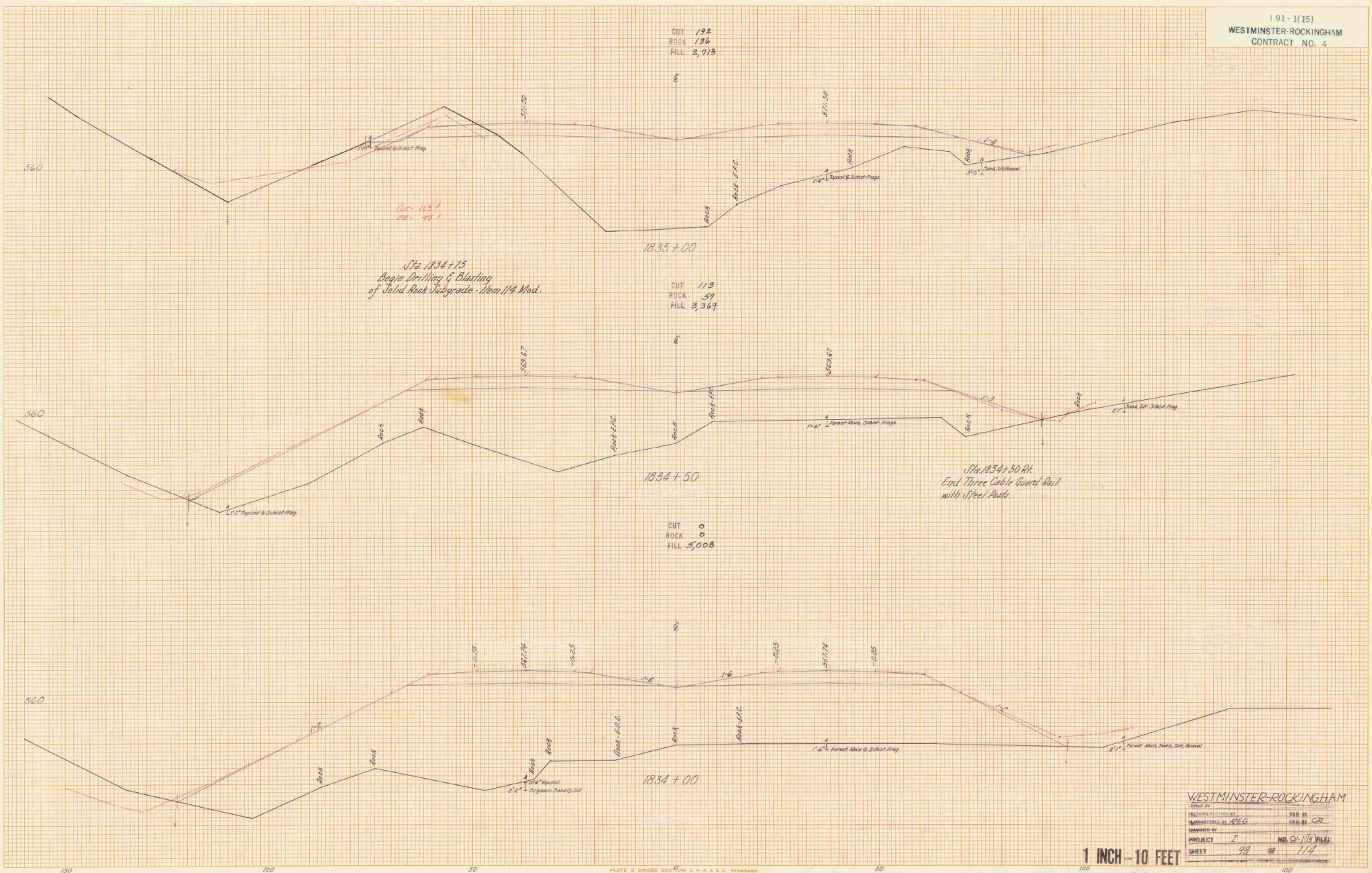
LAYED BY	
SECTIONS PLOTTED BY	CKD. BY
PLANIMETERED BY REG	CKD. BY CR
CHECKED BY	
PROJECT I	NO. 91-1(15)
SHEET 97	OF 114

1 INCH = 10 FEET

CONTRACT #4

Sta 1833+00 - Sta 1833+50

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY — SUBMITTED — PLOTTED — AREAS — DATE — BY — KNTS. BOOK — NO. — AREAS CHECKED

ORIGINAL SURVEY — SUBMITTED — PLOTTED — AREAS — DATE — BY — KNTS. BOOK — NO. — AREAS CHECKED

150 100 50 0 50 100 150

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
1937. WAS PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

WESTMINSTER-ROCKINGHAM

LEVELS BY	
SECTIONS PLOTTED BY	BBB BS
EXAMINED BY	BBB BS CR
PROJECT	NO. 91-1(15) FILE
SHEET	98 OF 114

1 INCH = 10 FEET

CONTRACT # 4

Sta 1834+00 - Sta 1835+00

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

FINAL SURVEY — SURVEYED / PLOTTED / CHECKED / AREAS / DATE / BY

ORIGINAL SURVEY — SURVEYED / PLOTTED / CHECKED / AREAS / DATE / BY

CUT 440
ROCK 440
FILL 1722

580

Sta 1836+00 Lt
Begin Bit. Grouted Stone Gutter - Item 353

1836 + 00

Sta 1835+75 Rt.
Begin Special Ditch - Item 103

CUT 329
ROCK 329
FILL 1972

580

1835 + 50

1 INCH = 10 FEET

WESTMINSTER-ROCKINGHAM
LAYED BY
SECTIONS PUTTED BY — CKD. BY
PLANIMETERED BY REG — CKD. BY CR
EXAMINED BY
PROJECT I — NO. 91-1(15) FILE
SHEET 99 OF 114

CONTRACT #4

Sta 1835+50 - Sta 1836+00

FINAL PLAN CKD JW 10-25-68

PLATE 2 CROSS SECTION C, P, R, & S.S. STANDARD
100% RAG PAPER - MADE AND PRINTED IN U. S. A.
KEUFFEL & ESSER CO.

191-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

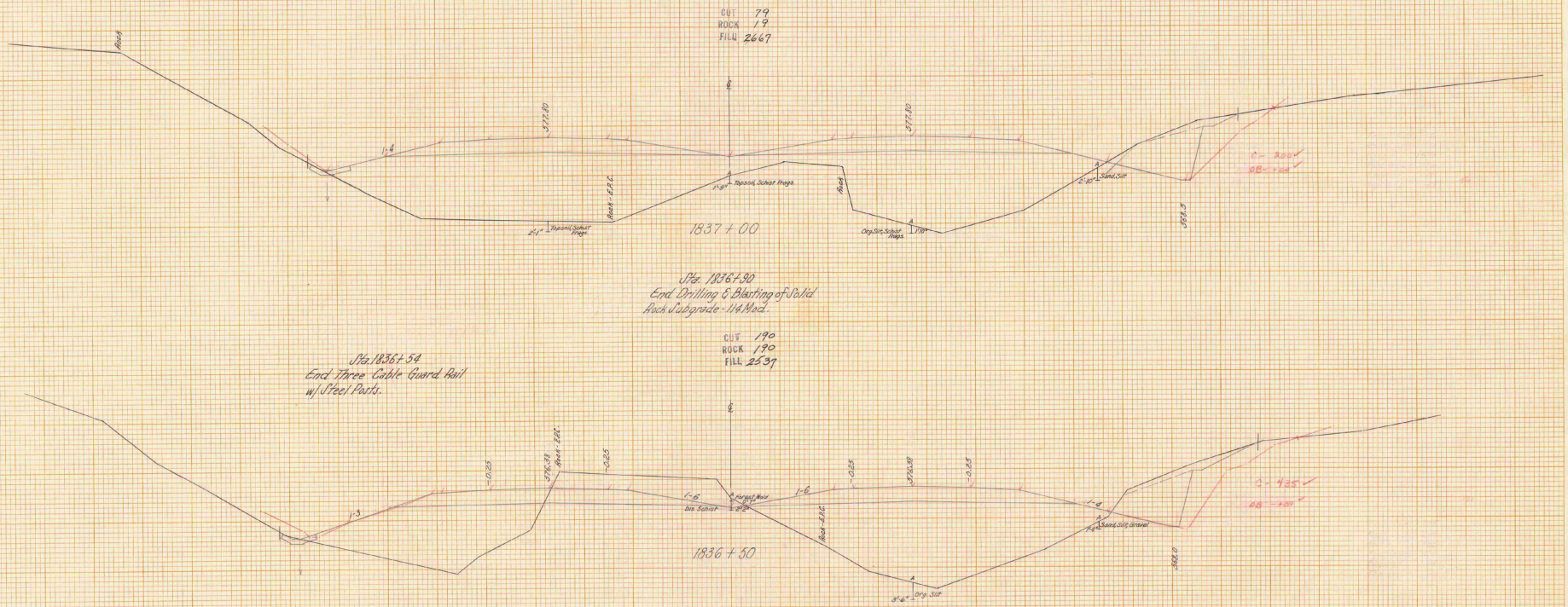


PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100 RAG PAPER LINEN AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FINAL PLAN JW 10-2-63 rd RPG

WESTMINSTER-ROCKINGHAM

CHKD. BY	
CHKD. BY	C.R.
EXAMINED BY	
PROJECT	I
NO.	91-1(15) FILED
SHEET	100 OF 114

1 INCH = 10 FEET

CONTRACT #4

Sta 1836+50 - Sta 1837+00

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

Sta. 1838+29 - Skew 72° Lt.
6"x160' P.A.C.C.G.M. Underdrain
1-C.I.P. Flushing Basin Lt.

CUT 3896
ROCK 3496
FILL 398

Sta. 1838+00 to 1838+25 Rt.
Bit. Grouted Stone Gutter - Item 553

Hdwl. @ 1838+00
Fill to 570.0

1838 + 00

Sta. 1837+60 Lt.
End Bit. Grouted Stone Gutter - Item 553

CUT 1420
ROCK 1304
FILL 1607

Sta. 1837+55
Begin Drilling & Blasting of
Solid Rock Subgrade - Item 114 Mod.

1837 + 50

Sta. 1837+50 - Rt.
New 18"x 92' R.C.P. Class III Mod

Sta. 1837+50 - Rt.
End Special Ditch - Item 103

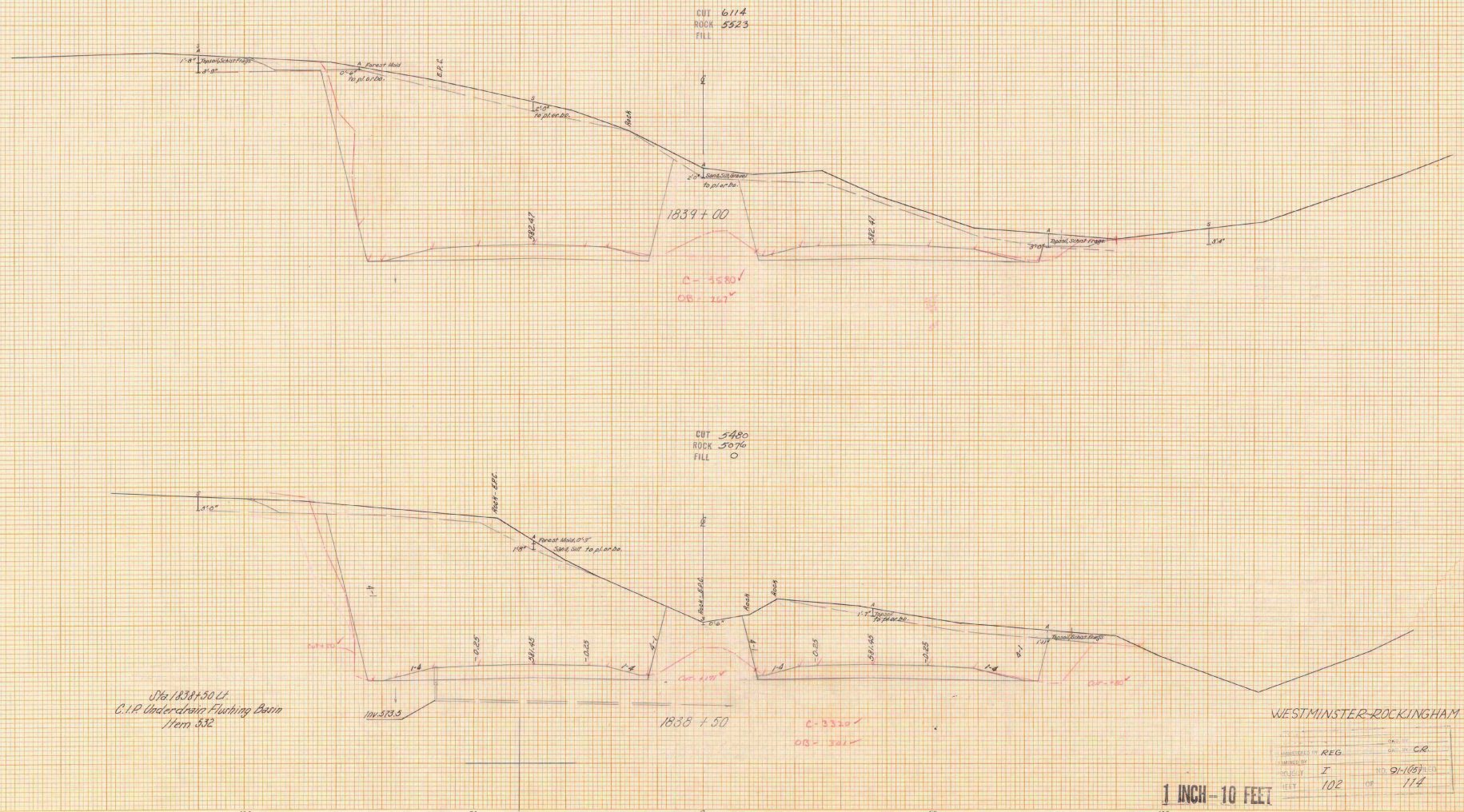
WESTMINSTER-ROCKINGHAM

1 INCH = 10 FEET

CONTRACT #4

Sta. 1837+50 - Sta. 1838+00

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

DRAWN BY	REG	TRACED BY	CR
CHECKED BY	I	PROJECT NO.	91-1(15)
SHEET NO.	102	OF	114

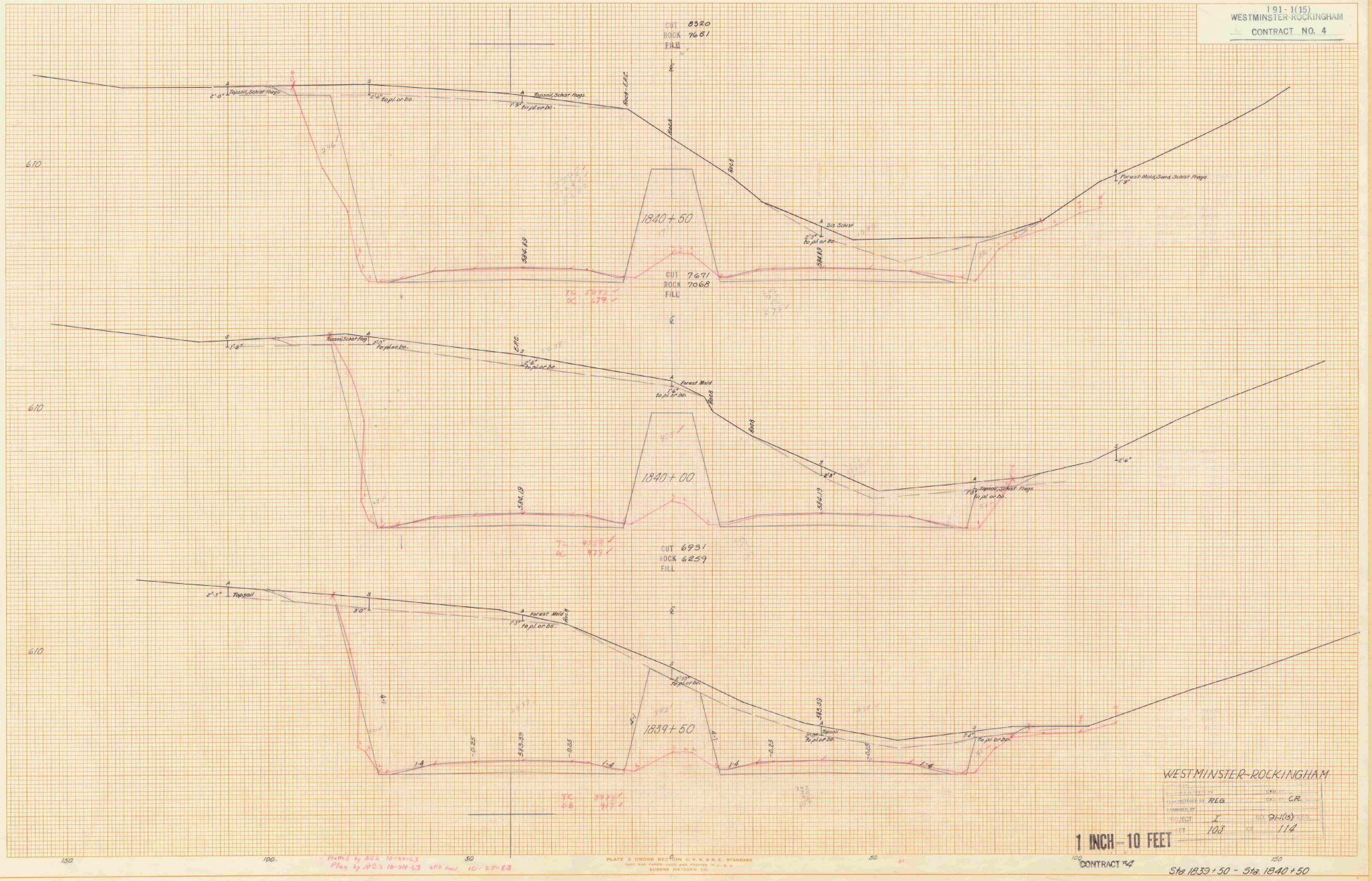
1 INCH = 10 FEET

CONTRACT #4

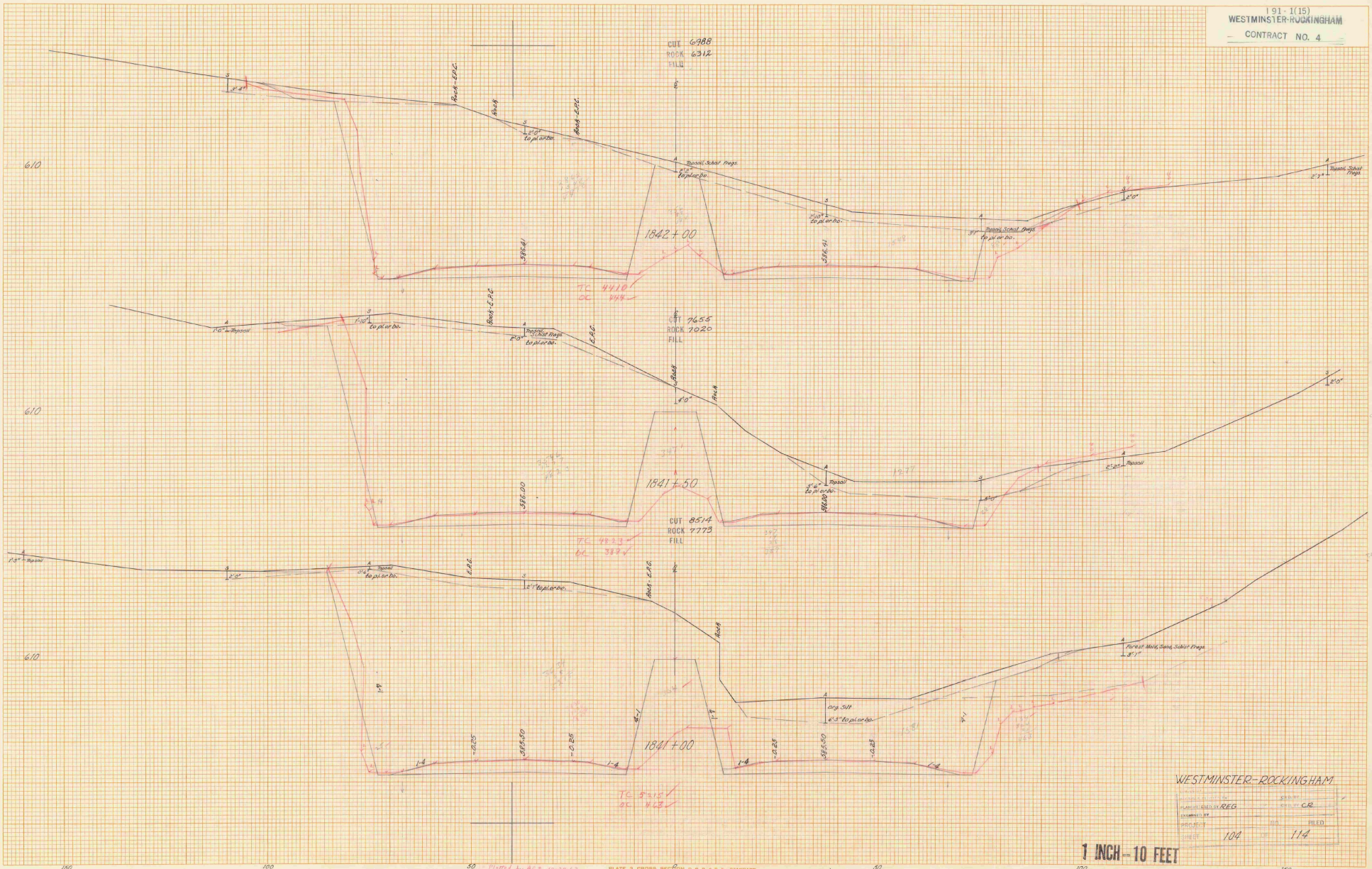
Sta 1838+50 - Sta 1839+00

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
EUGENE DIETZGEN CO.

FINAL: PLAN JW 10-25-63 10 RPE 10/29/63


191-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4
CUT 8320
ROCK 7661
FILL
1840+50
CUT 7691
ROCK 7068
FILL
1840+00
CUT 6931
ROCK 6259
FILL
1839+50
Topsoil, Schist frags.
Forest Mold, Sand, Schist Frags.
Dis. Schist
Forest Mold
Topsoil
Rock Line
610
1 INCH = 10 FEET
WESTMINSTER-ROCKINGHAM
REG.
C.R.
I
103
191-1(15)
114
CONTRACT #4
Sta 1839+50 - Sta. 1840+50

191-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

PROJECTED BY	CHKD BY
PLANIMETERED BY REG	CHKD BY CR
EXAMINED BY	
PROJECT	FILED
SHEET 104 OF	114

1 INCH = 10 FEET

CONTRACT #4

Sta. 1841+00 – Sta. 1842+00

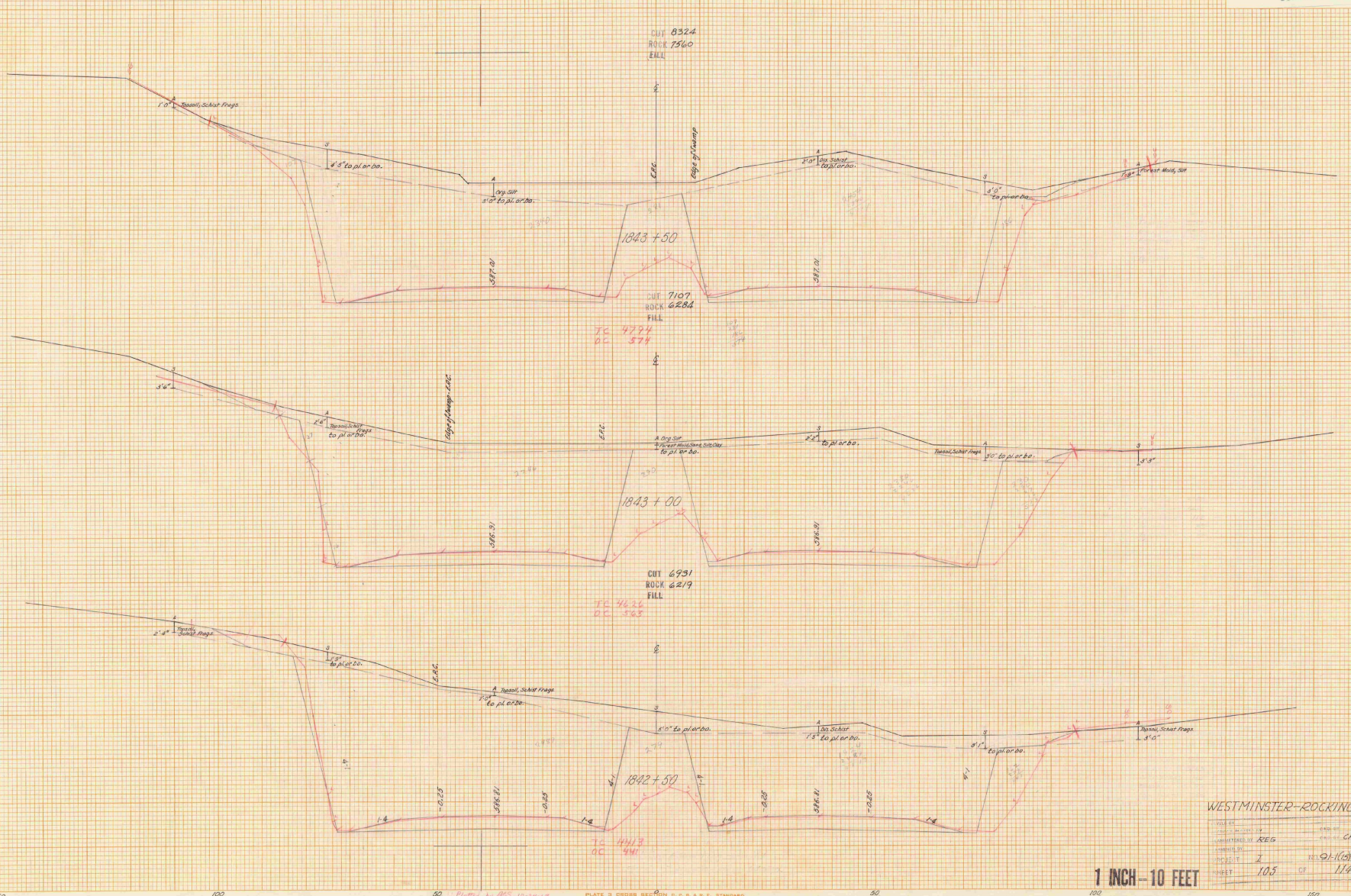
PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
SUSENE DIETZGEN CO.

Plotted by AGS 10-24-63
Plan by AGS 10-25-63
CHD U.P.R. 11/20/63

FINAL SURVEY — SURVEY BOOK — SHEET — SURVEYED — DRAWN — TRACED — CHECKED — DATE — BY

ORIGINAL SURVEY — SURVEY BOOK — SHEET — SURVEYED — DRAWN — TRACED — CHECKED — DATE — BY

I 91-1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



1 INCH = 10 FEET

WESTMINSTER-ROCKINGHAM

TITLE SH.	END SH.
CONSTR. W. STA. 14	
DIGITIZED BY REG	CHK'D BY CR
CHECKED BY	
PROJECT	I 91-1(15)
SHEET 105	OF 114

CONTRACT #4

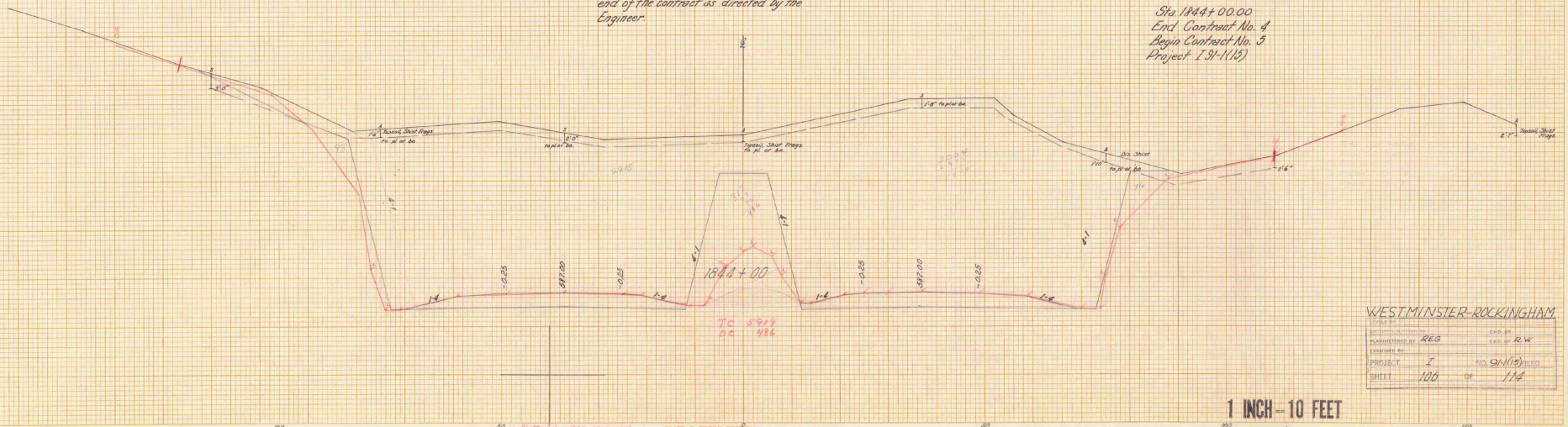
Sta. 1842+50 - Sta. 1843+50

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

CUT
ROCK
FILL

Note:
In order to obtain stable slopes at the terminal point of contract, earthwork slopes shall be carried beyond the end of the contract as directed by the Engineer.

Sta. 1844+00.00
End Contract No. 4
Begin Contract No. 5
Project I 91-1(15)



WESTMINSTER-ROCKINGHAM

DESIGNED BY		CHD. BY	
PLANIMETRED BY	REG	CHD. BY	R.W.
EXAMINED BY			
PROJECT	I	NO.	91-1(15)
SHEET	100	OF	114

1 INCH = 10 FEET

CONTRACT NO. 4

Sta 1844+00

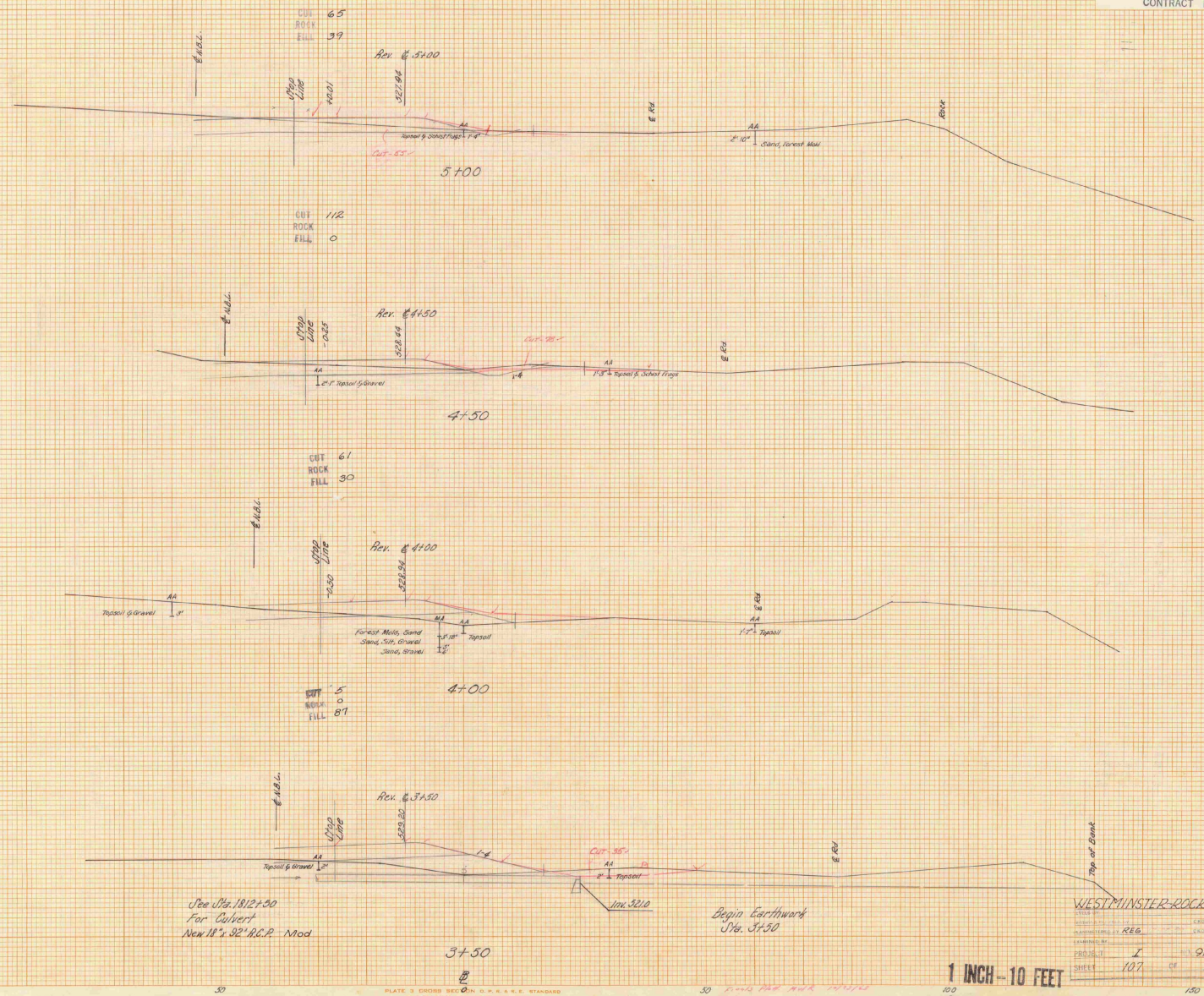
PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

Plotted by BDS 10-24-63
Plan by HCS 10-25-63

FINAL SURVEY
DIGITIZED
PLOTTED
SCALE
AREAS
NOTE BOOK
MAGS CHECKED
NO.
DATE

ORIGINAL SURVEY
DIGITIZED
PLOTTED
SCALE
AREAS
NOTE BOOK
MAGS CHECKED
NO.
DATE

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



WESTMINSTER-ROCKINGHAM

LAYOUT BY	
DESIGNED BY	CHKD. BY
PLANIMETERED BY	REG. CHKD. BY J.O.R.
EXAMINED BY	
PROJECT	I 91(16) FILED
SHEET 107 OF 114	

1 INCH = 10 FEET

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
(BOND PAPER MADE AND PRINTED IN U. S. A.)
EUGENE DIETZGEN CO.

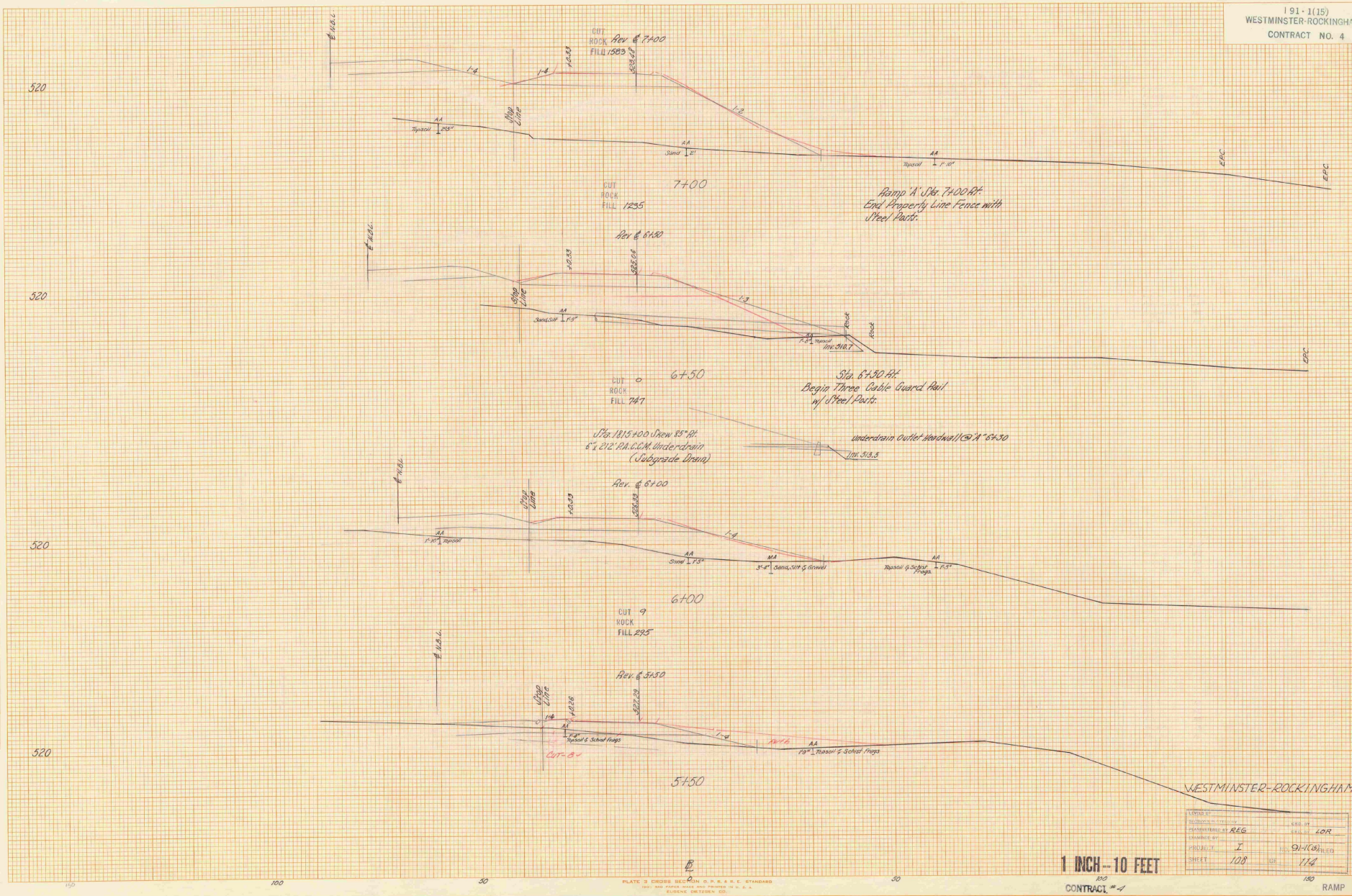
CONTRACT No. 4

RAMP A

FINAL SURVEY
DATE
BY
SURVEYED
PLOTTED
AREAS
PROF. CHECKED
NO.

ORIGINAL SURVEY
DATE 12-27-63
BY Richard Williams
SURVEYED 8-A-12-63
PLOTTED
AREAS
PROF. CHECKED
NO.

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4



FINAL SURVEY
SURVEYED
PLOTTED
TRACED
NOTE BOOK
NO.
MAPS CHECKED
BY
DATE

ORIGINAL SURVEY
SURVEYED 2-21-1968
PLOTTED Lindell Hilyard
TRACED Louis
NOTE BOOK
NO.
MAPS CHECKED
BY 2-25-68
DATE 2-25-68

LEVELED BY
SLOPEMAN'S NOTEBOOK
PLANIMETERED BY REG
ENGINEER BY
PROJECT I
SHEET 108

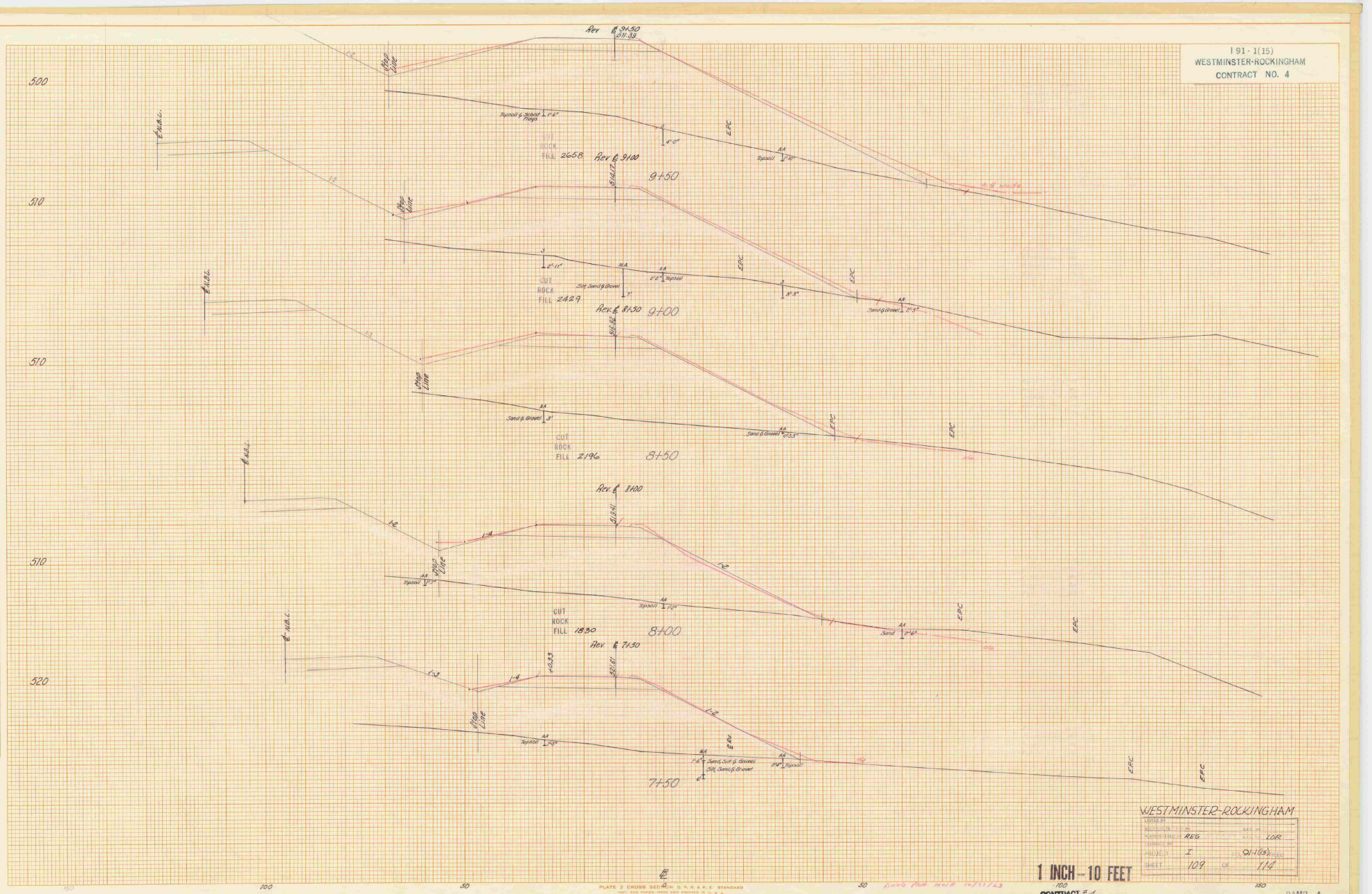
SEC. BY
SEC. BY LOR
91-1(15) FILED
OF 114

1 INCH = 10 FEET

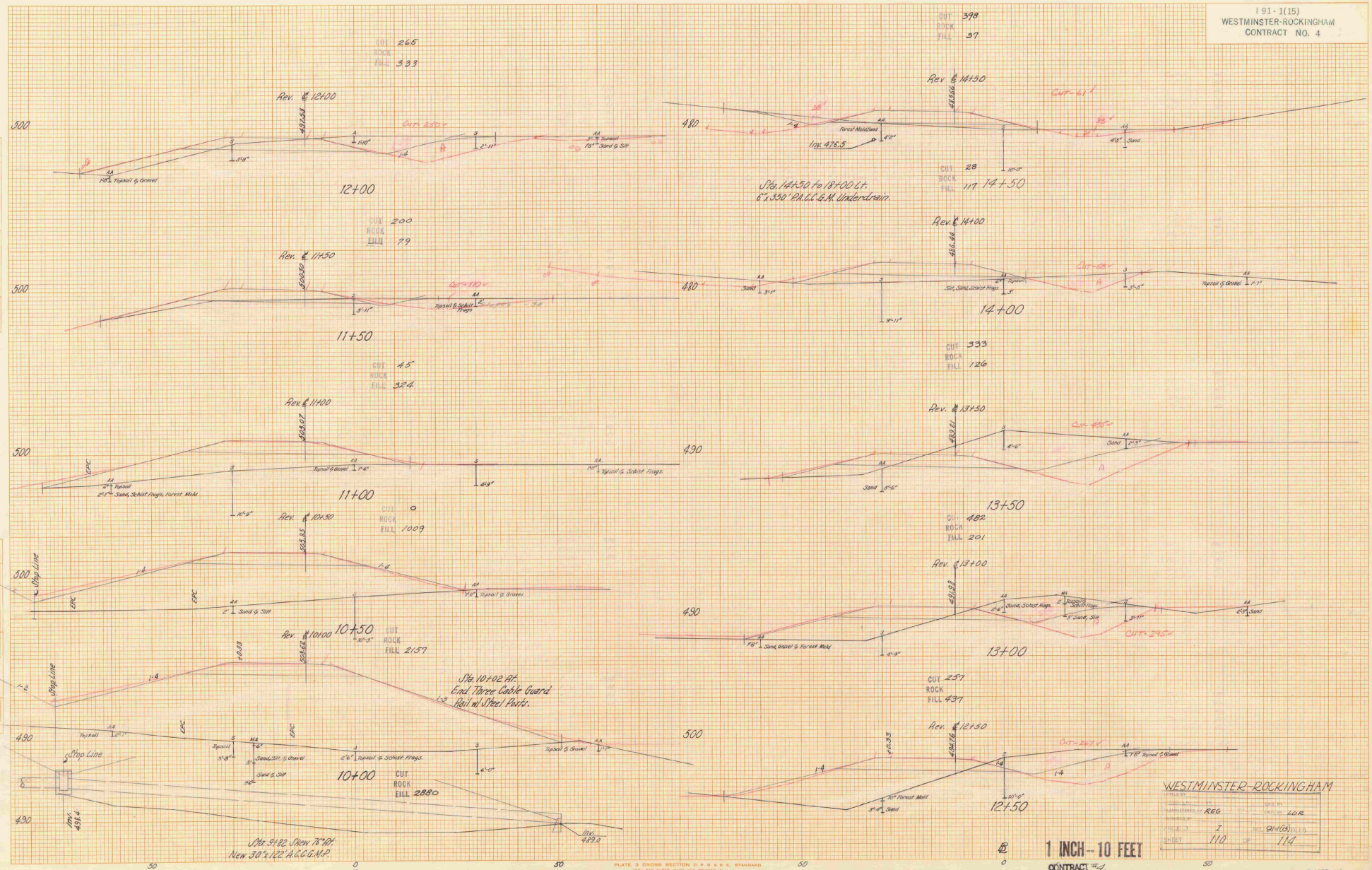
CONTRACT # 4

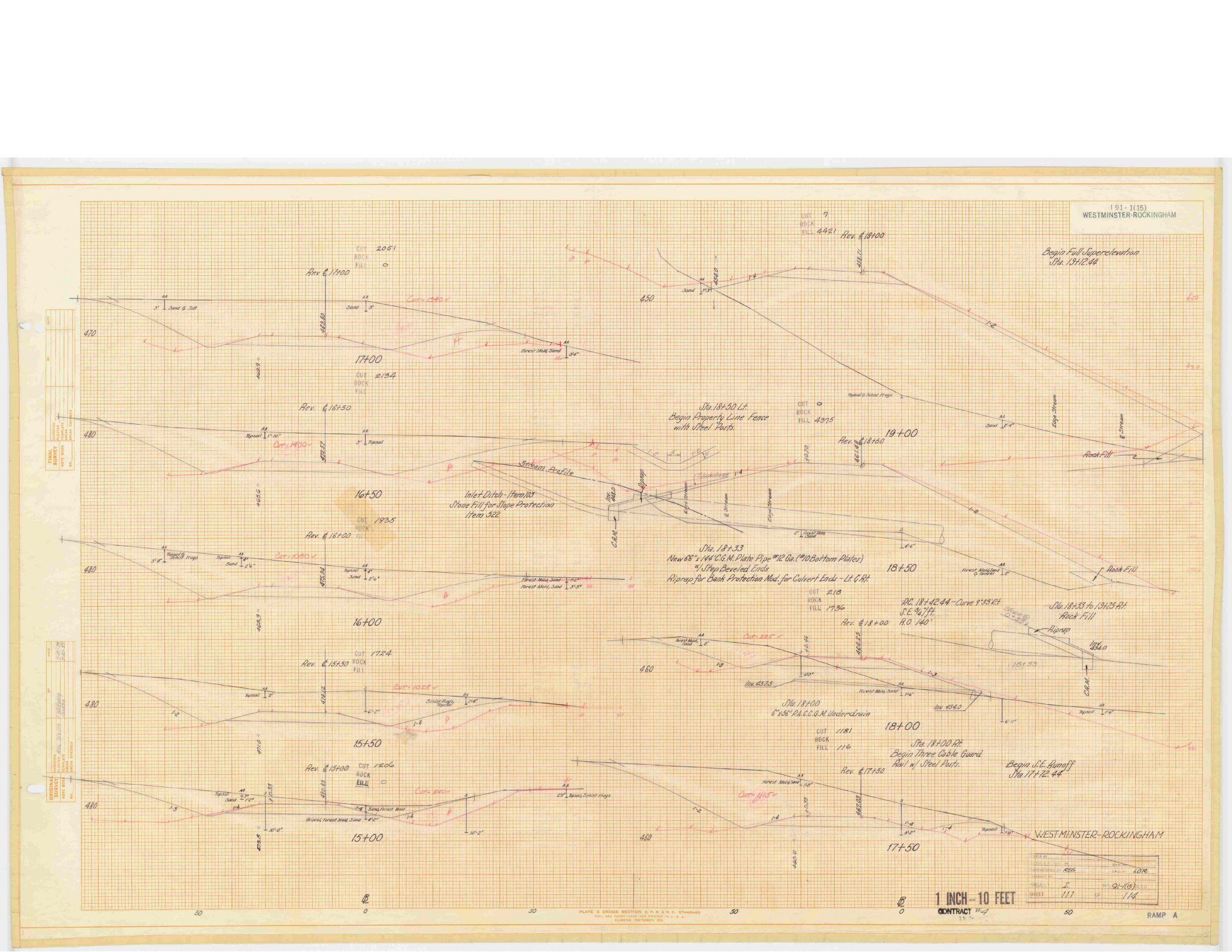
RAMP A

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
100 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

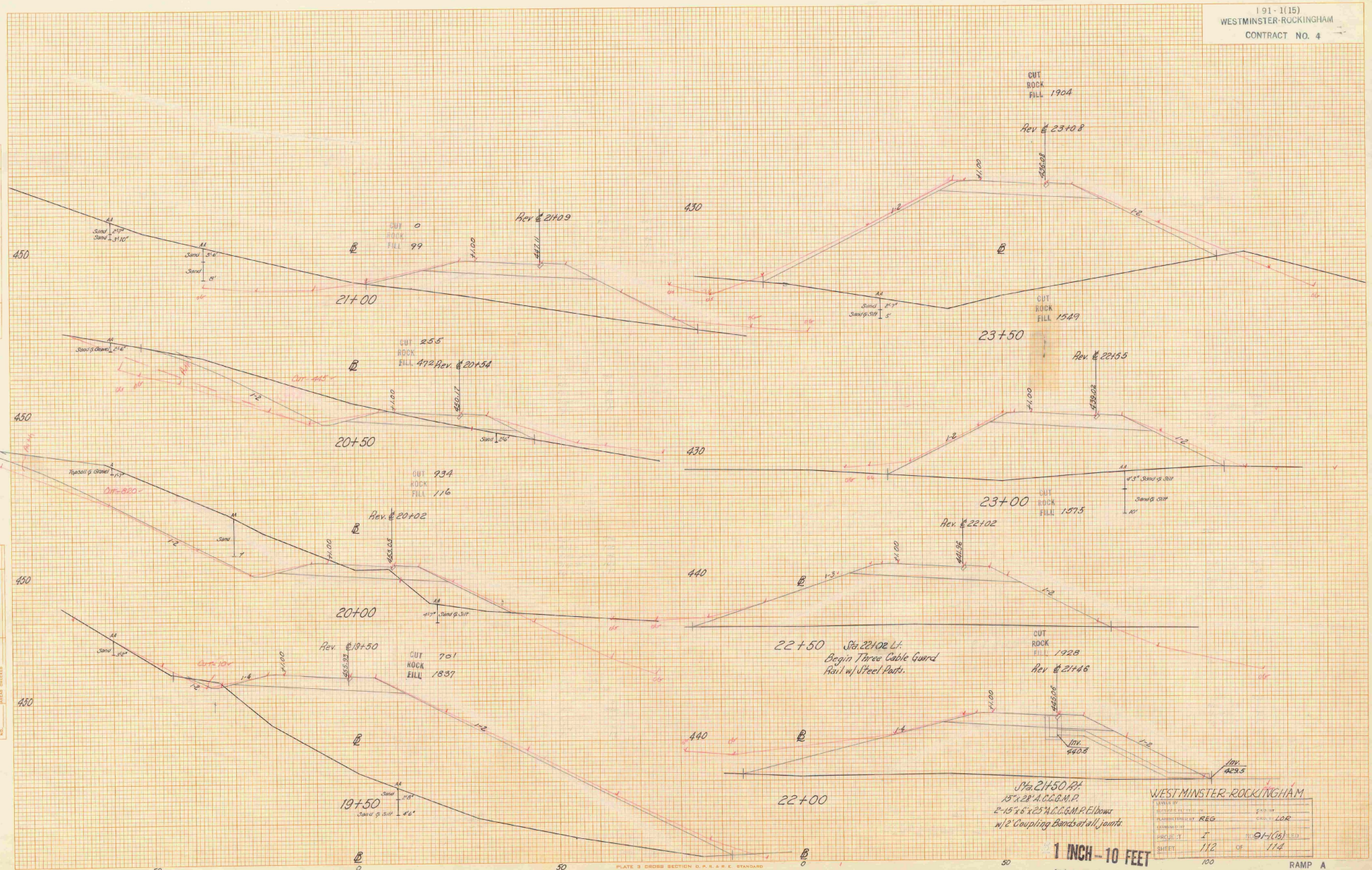

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4
Rev. @ 9+50
511.39
9+50
CUT
ROCK
FILL 265B
Rev @ 9+00
9+00
CUT
ROCK
FILL 242.9
Rev @ 8+50
8+50
CUT
ROCK
FILL 219.6
Rev @ 8+00
8+00
CUT
ROCK
FILL 183.0
Rev. @ 7+50
7+50
Topsoil & Gravel Fill
Topsoil
Stiff Sand & Gravel
Sand & Gravel
Sand, Silt & Gravel
Sand
EPC
Final Grade Plan made 10/23/63
1 INCH = 10 FEET
WESTMINSTER-ROCKINGHAM
CONTRACT I-1
RAMP A
PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
EUGENE DIETZGEN CO.

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4




191-1(15)
WESTMINSTER-ROCKINGHAM
Rev. ℄ 17+00
CUT 2051
ROCK
FILL 0
17+00
CUT 2134
ROCK
FILL
Rev. ℄ 16+50
16+50
CUT 1935
ROCK
FILL
Rev. ℄ 16+00
16+00
CUT 1724
ROCK
FILL
Rev. ℄ 15+50
15+50
Rev. ℄ 15+00 CUT 1206
ROCK
FILL 0
15+00
Rev. ℄ 18+00
CUT 7
ROCK
FILL 4421
Begin Full Superelevation
Sta. 19+12.44
Sta. 18+50 Lt.
Begin Property Line Fence
with Steel Posts.
CUT 0
ROCK
FILL 4975
19+00
Rev. ℄ 18+50
Inlet Ditch - Item 103
Stone Fill for Slope Protection
Item 522
Stream Profile
Sta. 18+33
New 65" x 144" C.S.M. Plate Pipe (#12 Ga. (#10 Bottom Plates))
w/ Step Beveled Ends
Riprap for Bank Protection Mod. for Culvert Ends - Lt. & Rt.
18+50
CUT 218
ROCK
FILL 1736
Rev. ℄ 18+00
P.C. 18+42.44 - Curve 9°38'Rt
S.E. 3/4"/Ft.
R.O. 140'
Sta. 18+33 to 18+25 Rt.
Rock Fill
Riprap
Sta. 18+00
6"x36" P.A.C.C.O.M. Underdrain
CUT 1181
ROCK
FILL 116
18+00
Sta. 18+00 Rt.
Begin Three Cable Guard
Rail w/ Steel Posts.
Rev. ℄ 17+50
17+50
Begin S.E. Runoff
Sta. 17+12.44
WESTMINSTER-ROCKINGHAM
1 INCH = 10 FEET
CONTRACT #4
RAMP A
PLATE 3 CROSS SECTION D. P. W. & H. C. STANDARD
EUGENE DIETZGEN CO.

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

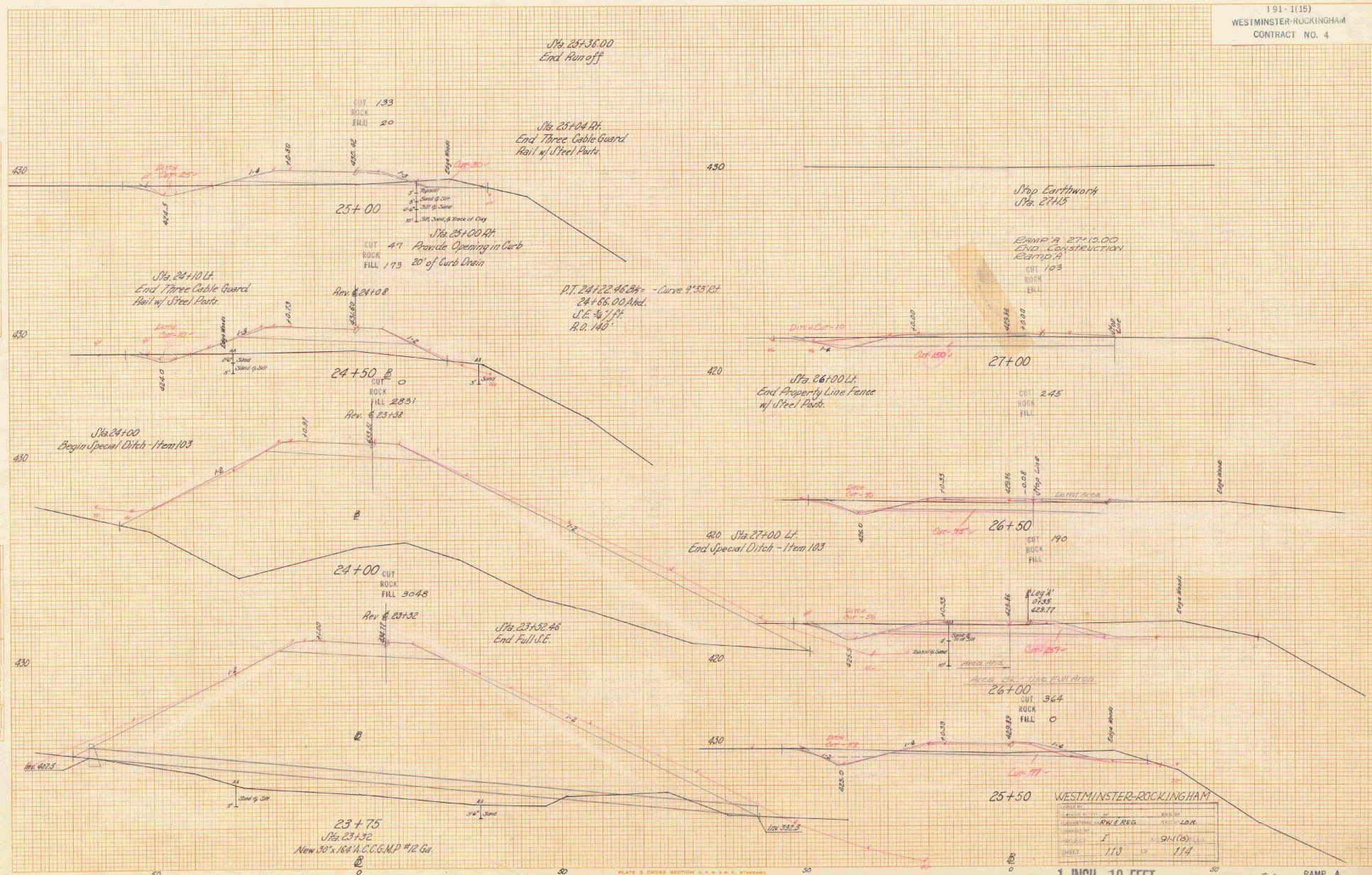


WESTMINSTER-ROCKINGHAM

LINES OF EXISTING ROAD		FIELD BK	
ALIGNMENT BY	REG	COMPUTED BY	LOR
GRADE BY			
PROJECT	I	NO.	91-1(15)
SHEET	112	OF	114

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
USE HAS PAPER, INKS AND PRINTER IN U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #4


Sta. 25+36.00
End Run off
CUT 133
ROCK
FILL 20
Sta. 25+04 Rt.
End Three Cable Guard
Rail w/ Steel Posts.
Sta. 24+10 Lt.
End Three Cable Guard
Rail w/ Steel Posts.
Rev. @ 24+08
P.T. 24+22.96 Bk. = - Curve 9°33' Rt.
24+66.00 Ahd.
S.E. .4 / ft.
R.O. 140'
25+00
Sta. 25+00 Rt.
CUT 47
ROCK
FILL 173
Provide Opening in Curb
20' of Curb Drain
24+50 ℄
CUT 0
ROCK
FILL 2831
Rev. @ 23+58
Sta. 24+00
Begin Special Ditch - Item 103
24+00
CUT
ROCK
FILL 3048
Rev. @ 23+32
Sta. 23+52.46
End Full S.E.
Inv. 407.5
23+75
Sta. 23+32
New 30" x 164' A.C.C.G.M.P. #12 Ga.
Stop Earthwork
Sta. 27+15
RAMP 'A' 27+10.00
END CONSTRUCTION
RAMP 'A'
CUT 103
ROCK
FILL
27+00
Sta. 26+00 Lt.
End Property Line Fence
w/ Steel Posts.
CUT 245
ROCK
FILL
Sta. 27+00 Lt.
End Special Ditch - Item 103
26+50
CUT 190
ROCK
FILL
Leg 'A'
0.33
423.71
26+00
CUT 364
ROCK
FILL 0
Inv. 392.3
25+50
Edge Woods
Stop Line
Ditch Cut = 10
Ditch Cut = 30
Ditch Cut = 56
Ditch Cut = 28
Cut = 130'
Cut = 115'
Cut = 154'
Cut = 177'
Sand & Silt
Topsoil
Silt & Sand
Silt, Sand & Trace of Clay
Earthen Area
Area Ditch Line Cut Area
Area Ditch Line Fill Area
1-4
1-3
1-2
1-1
1-2
1-2
1-4
1-4
1-2
1-2
1-2
1-2
1-4
1-4
1-2
1-2
1-2
1-2
1-4
1-4
1-2
1-2

I 91 - 1(15)
WESTMINSTER-ROCKINGHAM
CONTRACT NO. 4

RAMP 'A' - Leg 'A'
Sta. 2+33.62
End Construction
Leg 'A'

End Earthwork
Sta. 2+36

CUT 60
ROCK
FILL 206

Route 5

1+50

Sta. 1+43 Rt.
Begin Three Cable Guard
Rail w/ Steel Posts.

CUT 257
ROCK
FILL 120

Sta. 1+15
New 18'x 60' R.C.P. Class III Mod

Route 5

D.I. w/ Grate

1+00

Sta. 1+00 Rt.
Provide Opening in Curb
22' of Curb Drain

CUT 385
ROCK
FILL 0

0+50

RAMP 'A' - Leg 'A'
Sta. 0+00.00
Begin Construction
Leg 'A'

Begin Earthwork
Sta. 0+35

CUT 98
ROCK
FILL

Sta. 2+55 Rt.
End Three Cable Guard
Rail w/ Steel Posts.

CUT
ROCK
FILL

Sta. 1+68 Rt. Skew 78° Rt.
Extend Existing Culvert
24" x 40' A.C.C.G.M.P.

Existing 24" A.C.C.M.P.

Inv. 413.1

Inv. 410.5

1+68

Sta. 1+68 Lt. - Skew 78° Lt.
Const. Stone Fill for Slope
Protection, Item 862

Leg 'A' Sta. 0+00 = Ramp 'A' Sta. 25+64.50

WESTMINSTER-ROCKINGHAM
LEVELS BY:
CROSS SECTIONS BY:
CH'D. BY:
PLANIMETERS BY: RW
CK'D. BY: LOR
EXAMINED BY:
PROJECT I
NO. 91-1(15)
SHEET 114 OF 114

1 INCH = 10 FEET

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

CONTRACT #4

RAMP A LEG

Wesminster - Rd

I-91- 1 (15

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01
INITIALS HANGER 327 ONE

19 62 63

Westminster - Rockingham
I-91-1-(13) C/4

19 62 63