

CURRENT ADT (1985) = 18500
 DESIGN YEAR (2003) = 26000
 DHV = 2600
 D = 50%
 T = 40%
 V = 70 M.P.H.

REGISTERED
 DEC 1 1980

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

POR-76-20.03

PALMYRA TOWNSHIP

PORTAGE COUNTY

OHIO
 FHWA REGION 5
 FEDERAL PROJECT
 IR-76-2(42)46
 PLAN NO. 8332

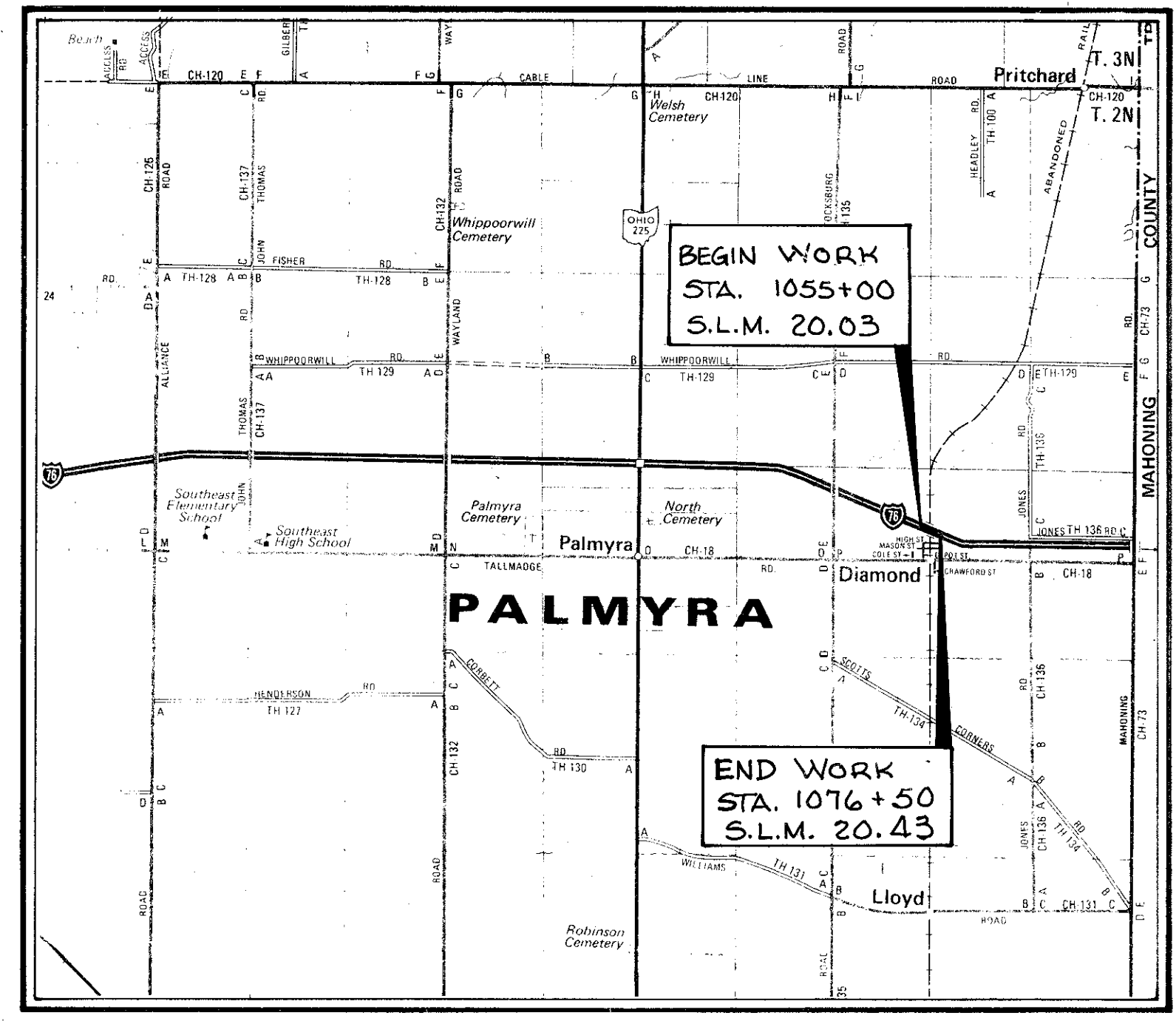
SLIDE REPAIR

CONVENTIONAL SIGNS

County Line	-----	Limited Access (only)	----- LA -----
Township Line	-----	Right of Way (only)	----- RW -----
Section Line	-----	Limited Access & Right of Way	----- LA & RW -----
Corporation Line	----- or -----	Existing Right of Way	-----
Fence Line (existing)	x-x-x-x (proposed) x-x-x-x	Property Line	----- (in existing fence) x-x-x-x -----
Center Line	352 353	Railroad	----- or -----
Trees	(to be removed)	Guardrail (existing)	----- (proposed) -----
Utility Poles:	Telephone ϕ , Power ϕ , Light ϕ .		

INDEX OF SHEETS

TITLE SHEET	-----	1
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LOCATION MAP

SCALE IN MILES
 0 1/2 1 2 3

LINE DATA

BEGIN WORK STA. 1055+00
 END WORK STA. 1076+50
 TOTAL LENGTH OF WORK 2150 LIN. FT. OR 0.407 MILE

UNDERGROUND UTILITIES
 48 HOURS BEFORE YOU DIG
 Call 800-362-2764 (Toll free)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS MUST BE CALLED DIRECTLY

Portion to be improved: _____
 State & Federal Routes _____
 Other Roads _____

SCALES

Plan: _____
 Profile: Horizontal _____, Vertical _____
 Cross Section: Horizontal _____, Vertical _____

SUPPLEMENTAL SPECIFICATIONS	

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS	
GR-2B	2-5-82
MC-3	6-1-73
MC-11	8-1-78
MC-3A	5-1-81
TC-35.10	10-5-77

Plan Prepared By:
 DISTRICT No. 4
 OHIO DEPARTMENT OF TRANSPORTATION

Project: POR-76-20.03
 Date of Letting: 19____, Contract No. _____

1983 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved: *Francis V. Fischer*
 Date 3-24-83 District Deputy Director of Transportation

Approved: _____
 Date: _____ Engineer, Bureau of Bridges and Structural Design

Approved: *James R. Longmiller*
 Date 4-13-83 Chief Engineer, Operations

Approved: *Walter A. Smith*
 Date 4-14-83 Director, Department of Transportation

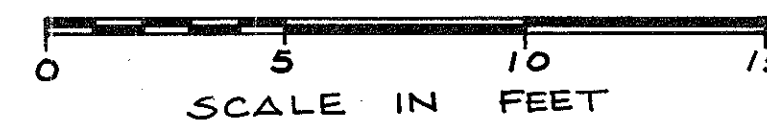
DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED: _____
 DIVISION ADMINISTRATOR DATE

TYPICAL SECTIONS

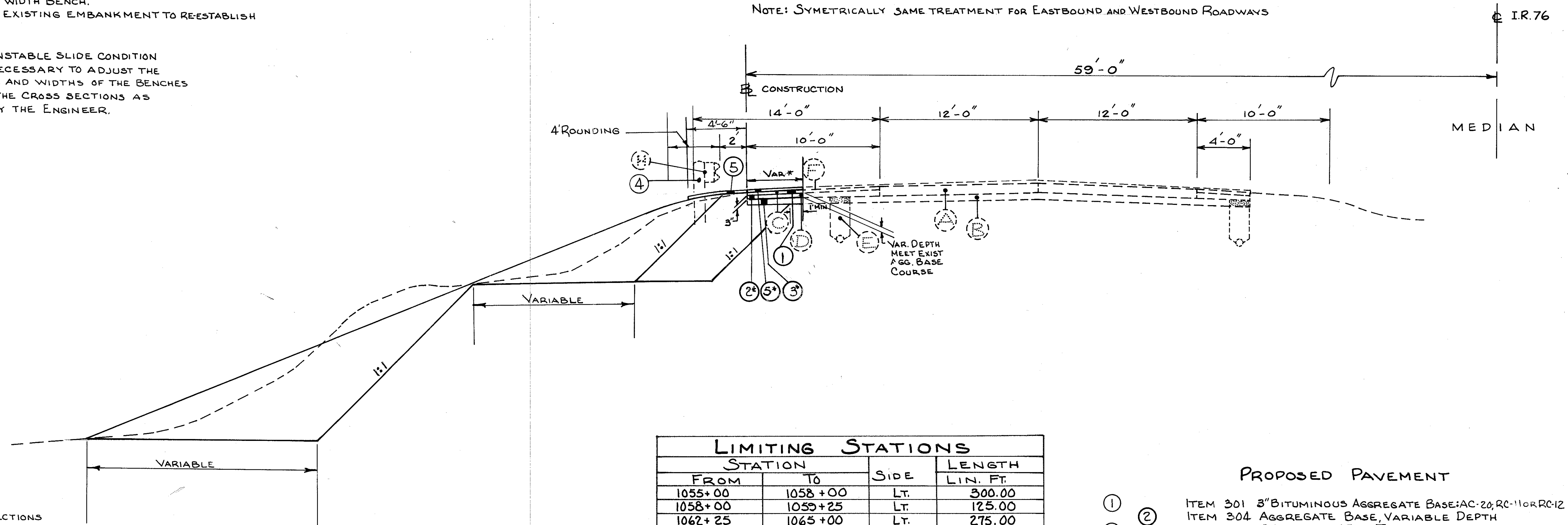
SEQUENCE OF CONSTRUCTION:

1. REMOVE SLOUGHED MATERIAL AT THE TOE OF THE EXISTING EMBANKMENT SLOPE AND ESTABLISH A WORKING PLATFORM ON FIRM UNDISTURBED MATERIAL
2. CONSTRUCT THE EMBANKMENT TO THE ELEVATION OF THE PROPOSED VARIABLE WIDTH BENCH.
3. EXCAVATE INTO THE EXISTING EMBANKMENT TO REESTABLISH THE SHOULDER.

NOTE: DUE TO THE UNSTABLE SLIDE CONDITION IT MAY BE NECESSARY TO ADJUST THE ELEVATIONS AND WIDTHS OF THE BENCHES SHOWN ON THE CROSS SECTIONS AS DIRECTED BY THE ENGINEER.



NOTE: SYMMETRICALLY SAME TREATMENT FOR EASTBOUND AND WESTBOUND ROADWAYS



NOTE: SEE CROSS SECTIONS FOR VARIATIONS TO TYPICAL TREATMENT

LIMITING STATIONS			
STATION		SIDE	LENGTH LIN. FT.
FROM	TO		
1055+00	1058+00	LT.	300.00
1058+00	1059+25	LT.	125.00
1062+25	1065+00	LT.	275.00
1063+00	1076+50	RT.	1350.00
TOTAL			2050.00

PROPOSED PAVEMENT

- ① ITEM 301 3" BITUMINOUS AGGREGATE BASE: AC-20; RC-11 OR RC-12
- ② ITEM 304 AGGREGATE BASE, VARIABLE DEPTH
- ③ ITEM 310 6" SUBBASE, TYPE II
- ④ ITEM 606 TYPE 5 GUARDRAIL
- ⑤ ITEM 404 3" ASPHALT CONCRETE AC-20

*NOTE: DUE TO THE ACTIVE NATURE OF THE SLIDE, IT MAY BE NECESSARY TO REPLACE SOME PAVED BERM AREAS. ESTIMATED QUANTITIES OF ITEM 301 BITUMINOUS AGGREGATE BASE, ITEM 304 AGGREGATE BASE, ITEM 404 ASPHALT CONCRETE, AND ITEM 310 SUBBASE HAVE BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

EXISTING PAVEMENT

- ① 5" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- ② 6" SUBBASE
- ③ WATERPROOFED AGGREGATE BASE COURSE
- ④ AGGREGATE BASE COURSE (VAR. THICKNESS)
- ⑤ 6" PIPE UNDERDRAIN
- ⑥ BITUMINOUS SURFACE TREATMENT
- ⑦ ASPHALT CONCRETE OVERLAY
- ⑧ GUARDRAIL

GENERAL NOTES

MOBILIZATION AS PER PLAN

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE WHICH SHALL BE IN ACCORDANCE WITH 619.01 AND 619.02. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 624, MOBILIZATION, AS PER PLAN.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS SECTIONS ON THIS PLAN INDICATE SPECIFIC WIDTHS AND DEPTHS OF PROPOSED BENCHING OF THE EMBANKMENT FOUNDATION IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED AND ALL OTHER SLOPED FOUNDATION AREAS SHALL BE BENCHED AS SET FORTH IN 203.09. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED BY THE PROVISIONS OF 203.09.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN TEN FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS OR TO THE RIGHT-OF-WAY LINE IF SUCH LINE IS LESS THAN TEN FEET FROM THE WORK LIMITS.

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09.

ITEM 659 WATER 26 M-GAL.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. (THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.)

ITEM 603 CONDUIT TYPE F

AN ESTIMATED QUANTITY OF 60 LIN. FT. OF ITEM 603 6" CONDUIT TYPE F SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 605 UNDERDRAINS

AN ESTIMATED QUANTITY OF 150 LIN. FT. OF ITEM 605 6" SHALLOW PIPE UNDERDRAINS SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207 STRAW OR HAY BALES 100 EACH

ITEM 301 BITUMINOUS AGGREGATE BASE

ITEM 304 AGGREGATE BASE

ITEM 310 SUBBASE

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER FOR REPLACING DAMAGED AREAS OF THE PAVED BERM. (SEE TYPICAL SECTION SHEET No. 2)

ITEM 301 BITUMINOUS AGGREGATE BASE: AC-20 OR RT-11 OR RT-12	30 C.Y.
ITEM 304 AGGREGATE BASE	89 C.Y.
ITEM 310 SUBBASE, TYPE II	59 C.Y.
ITEM 404 ASPHALT CONCRETE AC-20	30 C.Y.

CALC. BY GLB. DATE 3/83
CK'D. BY R.P. DATE 3/85

F.H.W.A. REGION	STATE	PROJECT
5	OHIO	

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POR-76-20.03

PLAN NO. 2332

CALCULATIONS

ITEM 659 COMMERCIAL FERTILIZER

10809 + 8562 = 19371 S.Y. (SEEDING AREA)
 $\frac{19371 \times 9 \times 20}{1000} \div 2000 = 1.75 \text{ TONS}$

TO SUMMARY 1.75 TONS

ITEM 659 AGRICULTURAL LIMING

$\frac{19371 \times 9 \times 100}{1000} \div 2000 = 8.72 \text{ TONS}$

TO SUMMARY 8.72 TONS

ITEM 404 3" ASPHALT CONCRETE AC-20

LEFT STA. 1055+00 TO STA. 1059+25	425 LIN. FT.
LEFT STA. 1062+25 TO STA. 1065+00	275 LIN. FT.
RIGHT STA. 1063+00 TO STA. 1076+50	1350 LIN. FT.
TOTAL	2050 LIN. FT.

$2050 \times 4.5 \times \frac{3}{12} \div 27 = 85.4 \text{ CU. YD.}$

TO SUMMARY 85 CU. YD.

MAINTENANCE OF TRAFFIC NOTES

Calc. By G.L.B.
 DATE 9/83
 CK'D. By RP
 DATE 9/83

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO		

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POR-76-20.03

PLAN NO. 332

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

- 1.) THE CONTRACTOR SHALL PROVIDE THE SERVICE OF ONE (1) SPECIAL DUTY LAW ENFORCEMENT OFFICER (LEO) WITH A PATROL CAR, AT THE ENGINEER'S REQUEST, FOR THE EXCLUSIVE PURPOSE OF CONTROLLING THROUGH TRAFFIC. THE LEO WITH A PATROL CAR SHALL BE UTILIZED DURING INSTALLATION AND REMOVAL OF TRAFFIC CONTROL DEVICES. THE LEO SHALL CONSTANTLY MOVE WITH THE BACK UP OF TRAFFIC SO THAT HE IS ALWAYS IN A POSITION ON THE SHOULDER NEAR THE END OF STOPPED TRAFFIC TO ASSIST IN CONTROLLING THE TRAFFIC AND INFORMING DRIVERS AS TO THE NATURE OF THE DELAY. INFORMATION REGARDING ARRANGEMENTS AND PAYMENTS BY THE CONTRACTOR FOR THE SPECIAL DUTY SERVICES MAY BE OBTAINED BY CONTACTING OHIO HIGHWAY PATROL, 660 EAST MAIN STREET, COLUMBUS, OHIO. TELEPHONE 614-466-2300. IF AFTER CONTACTING THE OHIO HIGHWAY PATROL, IT IS DETERMINED THAT THEY CANNOT SUPPLY THE SPECIAL DUTY PATROLMAN THEN AN AUTHORIZED COUNTY POLICE OFFICER EQUIPPED WITH A MARKED AND FLASHER-LIGHT EQUIPPED OFFICIAL POLICE OR PATROL CAR SHALL BE PROVIDED.

- 2.) A FLASHING ARROW BARRICADE (TC-35.10) SHALL BE USED FOR TRAFFIC CONTROL WHENEVER THERE IS A LANE RESTRICTION. SEE SHEET NO. 5.

- 3.) DURING THE TIME OF LANE CLOSURES FOR 24 HOURS OR MORE, THE CONTRACTOR SHALL HAVE SOMEONE ON THE PROJECT 24 HOURS A DAY TO MAINTAIN SIGNS AND WARNING DEVICES.

- 4.) ALL TRAFFIC CONTROL DEVICES REQUIRED SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.

- 5.) THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS AND INCIDENTALS RELATED THERETO AND SHALL BE UTILIZED IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES; CURRENT EDITION, LATEST REVISION.

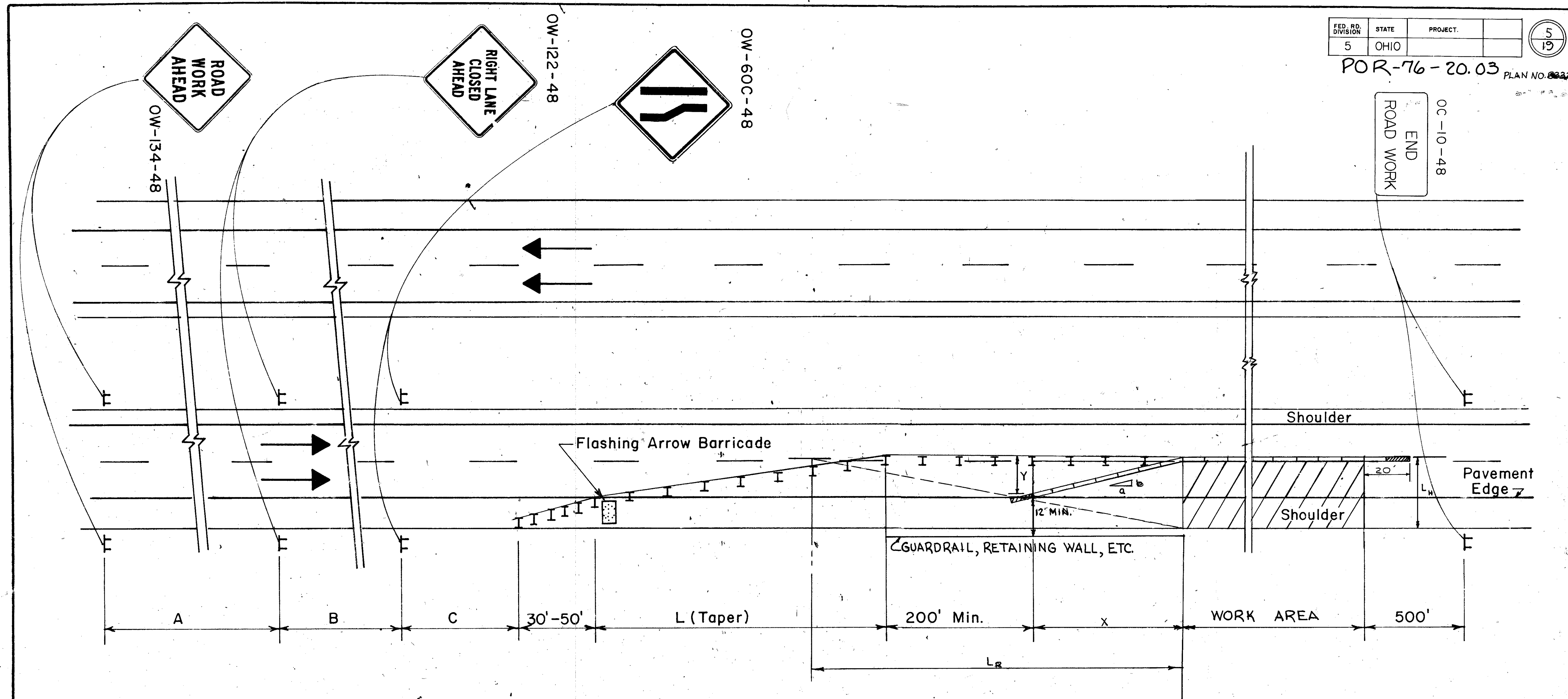
- 6.) TEMPORARY SIGNS IN THE MEDIAN AND WHEREVER ELSE PRATICAL SHALL BE MOUNTED ON SUPPORT POSTS FIXED TO EXISTING GUARDRAIL POSTS. WHERE THIS IS NOT POSSIBLE, EASELS OR BARRELS WITH A SUPPORT POST ATTACHED AND FILLED TO 1/2 CAPICITY WITH AGGREGATE, SHOULD BE USED. BARRELS SHALL BE REFLECTORIZED WITH REFLECTIVE SHEETING, TYPE G IN ACCORDANCE WITH 730.19.

- 7.) AN ESTIMATED QUANTITY OF 2770 LIN. FT. OF ITEM 622 TEMPORARY CONCRETE BARRIER HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS SHOWN IN THE DETAIL ON SHEET NO. 5, TO PROTECT TRAFFIC AND THE WORKMEN FOR THE DURATION OF THE SLIDE REPAIR WORK. PAYMENT FOR ITEM 622 TEMPORARY CONCRETE BARRIER SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO ERECT, MAINTAIN AND REMOVE THE BARRIER AS DIRECTED BY THE ENGINEER.

- 8.) FOR ADDITIONAL MAINTENANCE OF TRAFFIC NOTES, DETAILS AND SKETCHES, SEE SHEET NO. 5.

- 9.) THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT.

ITEM 614 MAINTAINING TRAFFIC	LUMP
ITEM SPEC. LAW ENFORCEMENT OFFICER WITH PATROL CAR	40 Hrs.
ITEM 622 TEMPORARY CONCRETE BARRIER	2770 LIN. FT.



GENERAL NOTES

- THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. DRUMS OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA.
- WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY "OW-123-48" SIGNS SHALL BE SUBSTITUTED FOR "OW-122-48" SIGNS AND THE OW-60D SIGNS SHALL BE SUBSTITUTED FOR THE OW-60C SIGNS

- THE "WORK AREA" IS DEFINED TO INCLUDE AREAS WHERE HEAVY EQUIPMENT OR MATERIALS ARE STORED.
- THE FLASHING ARROW BARRICADE SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON STANDARD DRAWING TC 35.10
- SIGNS SHALL BE MOUNTED ON PORTABLE SIGN SUPPORTS WITH APPROPRIATE WEIGHTING AND SHALL BE IN ACCORDANCE WITH OMUTCD, CURRENT EDITION, LATEST REVISION.
- A MINIMUM WIDTH OF 12' IS REQUIRED FOR ACCESS TO WORK AREA.

-----STANDARD MC-9A END TERMINAL

SPEED	a:b	L _R (Ft.)
55	15:1	360
50	15:1	320
45	12:1	280

$$L_1=0, L_2=0$$

$$X = \frac{L_H + \frac{L_1}{a} - L_2}{\frac{1}{a} + \frac{L_H}{L_R}}$$

$$Y = L_H - \frac{X \cdot L_H}{L_R} \quad Y \geq 8'$$

DISTANCE	A	B	C	L
URBAN	200	200	200	425
MAJOR STANDARD	500	500	500	600
FREEWAY AND EXPRESSWAY	2600	1600	1000	720

OHIO DEPARTMENT OF TRANSPORTATION	
CLOSING ONE LANE OF A FOUR LANE DIVIDED HIGHWAY WITH TEMPORARY CONC. BARRIER	DATE
DR.	CK

GENERAL SUMMARY

CALC. BY: GLB DATE: 3-23-83
 CK'D. BY: R.P. DATE: 3/83

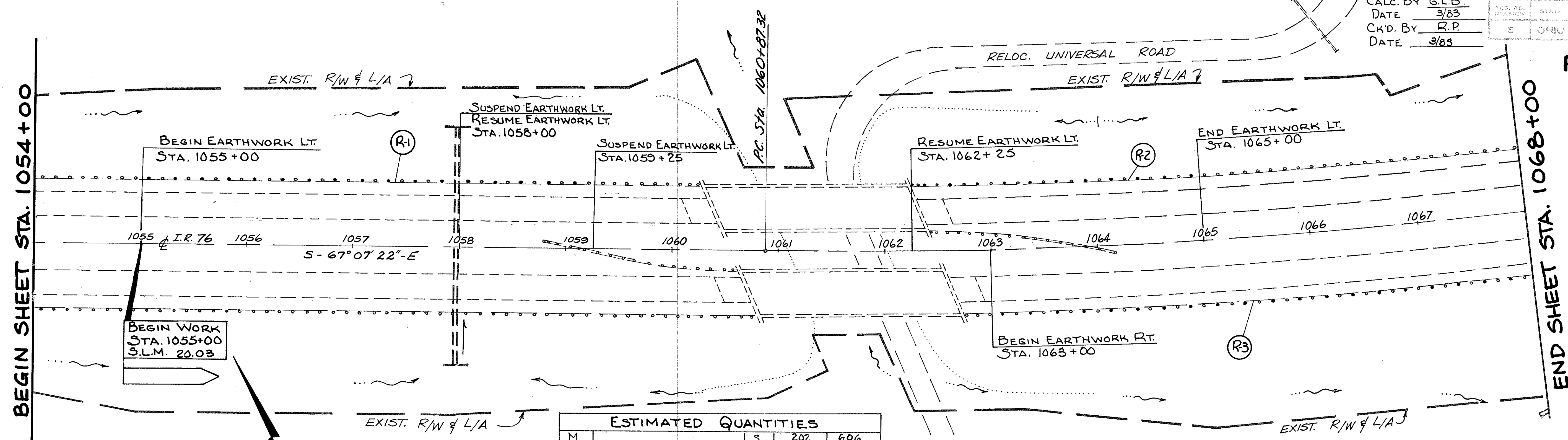
F.H.W.A. REGION	STATE	PROJECT
5	OHIO	

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POR-76-20.03

PLAN NO. 9322

ITEM	SHEET NUMBERS				TOTAL	UNIT	ITEM	DESCRIPTION
	3	4	7	8				
201					LUMP	LUMP	201	ROADWAY CLEARING AND GRUBBING
202			1200	850	2050	LIN. FT.	202	GUARDRAIL REMOVED FOR STORAGE
203			6212	7463	13675	Cu.Yd.	203	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203			12008	13877	25885	Cu.Yd.	203	EMBANKMENT
606			1200	850	2050	LIN. FT.	606	GUARDRAIL, TYPE 5
								EROSION CONTROL
207		100			100	EACH	207	STRAW OR HAY BALES
659			10809	8582	19391	Sq.Yd.	659	SEEDING AND MULCHING
659		2.21			1.75	TON	659	COMMERCIAL FERTILIZER
659		11.03			8.72	TON	659	AGRICULTURAL LIMING
659		26			26	M-GAL	659	WATER
								DRAINAGE
603		60			60	LIN. FT.	603	6" CONDUIT, TYPE F
605		150			150	LIN. FT.	605	6" SHALLOW PIPE UNDERDRAINS
								PAVEMENT
301		30			30	Cu.Yd.	301	BITUMINOUS AGGREGATE BASE: AC-20 OR RT-11 OR RT-12
304		89			89	Cu.Yd.	304	AGGREGATE BASE
310		59			59	Cu.Yd.	310	SUBBASE, TYPE II
404		115			115	Cu.Yd.	404	ASPHALT CONCRETE, AC-20
								TRAFFIC CONTROL
622				2770	2770	LIN. FT.	622	TEMPORARY CONCRETE BARRIER
SPEC.				40	40	HOURS	SPEC.	LAW ENFORCEMENT OFFICER WITH PATROL CAR
614				LUMP	LUMP	LUMP	614	MAINTAINING TRAFFIC
624				LUMP	LUMP	LUMP	624	MOBILIZATION, AS PER PLAN
623				LUMP	LUMP	LUMP	623	CONSTRUCTION LAYOUT STAKES



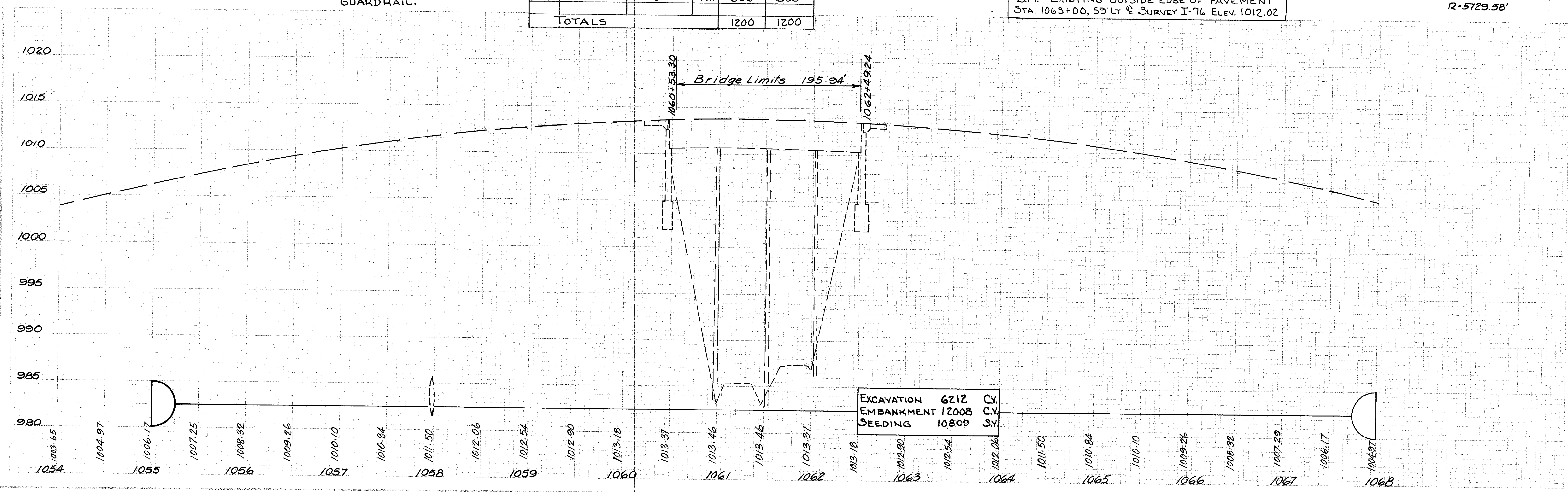
BEGIN WORK
 STA. 1055+00
 S.L.M. 20.03

NOTE:
 LIMITS OF GUARDRAIL
 REMOVAL AND REPLACEMENT
 SHALL BE ADJUSTED TO
 CORRESPOND WITH PANEL
 POINTS OF EXISTING
 GUARDRAIL.

MARK	STATION		SIDE	202	606
	FROM	TO		GUARDRAIL	GUARDRAIL
				REM'D FOR	TYPE
R1	1055+00	1059+25	LT.	425	425
R2	1062+25	1065+00	LT.	275	275
R3	1063+00	1068+00	RT.	500	500
TOTALS				1200	1200

B.M. EXISTING OUTSIDE EDGE OF PAVEMENT
 STA. 1063+00, 59' LT & SURVEY I-76 ELEV. 1012.02

& Curve Data
 P.I. Sta. 1072+96.26
 $\Delta = 23^{\circ}49'45''$ Lt.
 $D = 1^{\circ}00'$
 $L = 2382.92'$
 $T = 1208.94'$
 $E = 126.15'$
 $R = 5729.58'$



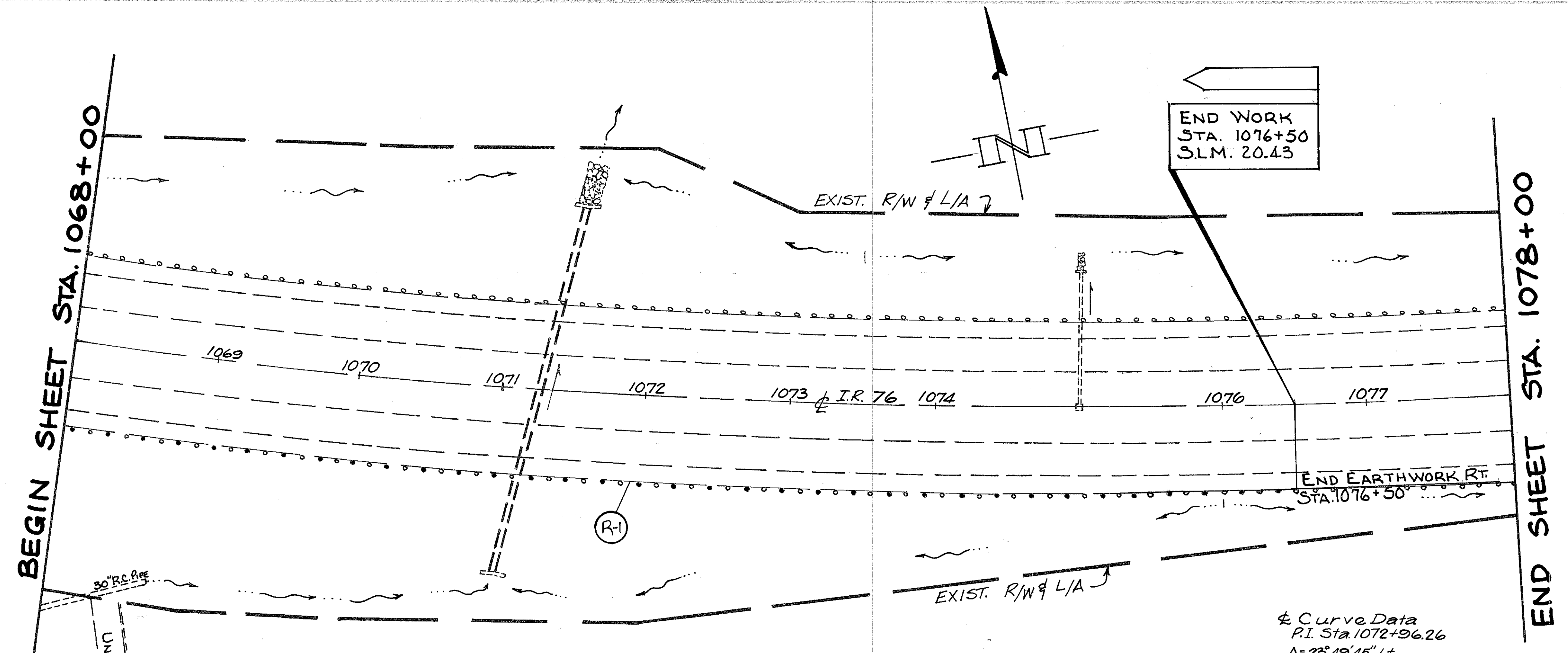
EXCAVATION 6212 CY
 EMBANKMENT 12008 CY
 SEEDING 10809 SY

PINAL SURVEY
 NO. 1003-65

CALC. BY: G.L.B. DATE: 3/83
 CK'D. BY: R.P. DATE: 3/83

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	

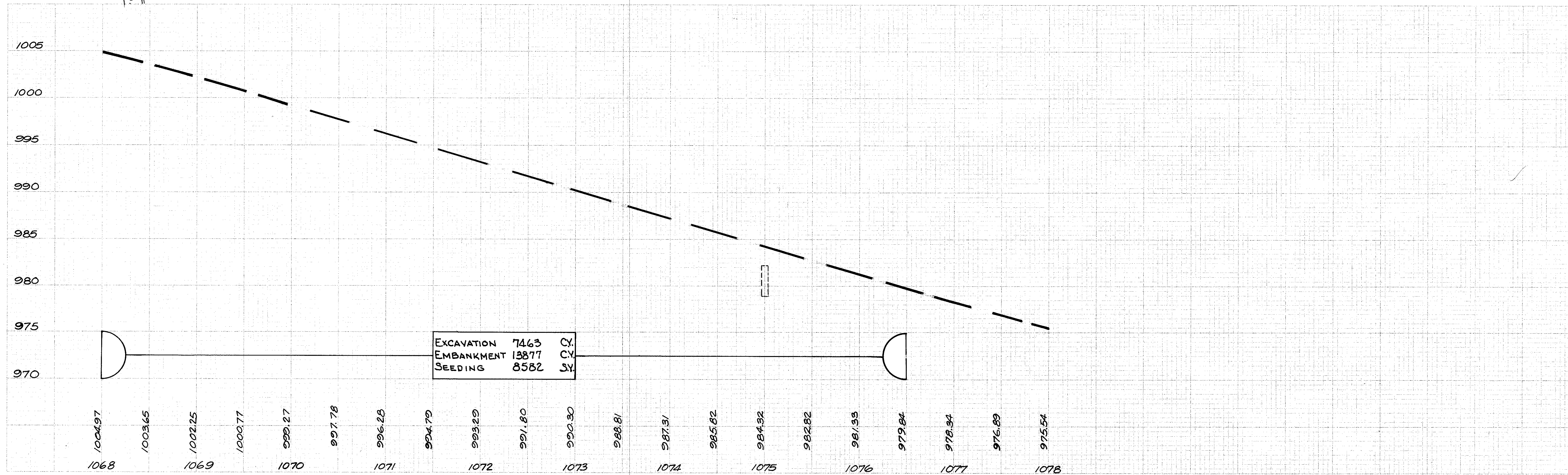
POR-76-20.03
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ESTIMATED QUANTITIES					
MARK	STATION		SIDE	202	606
	FROM	TO		GUARDRAIL REMOVED FOR STORAGE LIN. FT.	GUARDRAIL TYPE 5 LIN. FT.
R-1	1068+00	1076+50	RT	850	850
TOTALS				850	850

Curve Data
 P.I. Sta. 1072+96.26
 $\Delta = 23^\circ 49' 45''$ Lt.
 $D = 1^\circ 00'$
 $L = 2382.92'$
 $T = 1208.94'$
 $E = 126.15'$
 $R = 5729.58'$

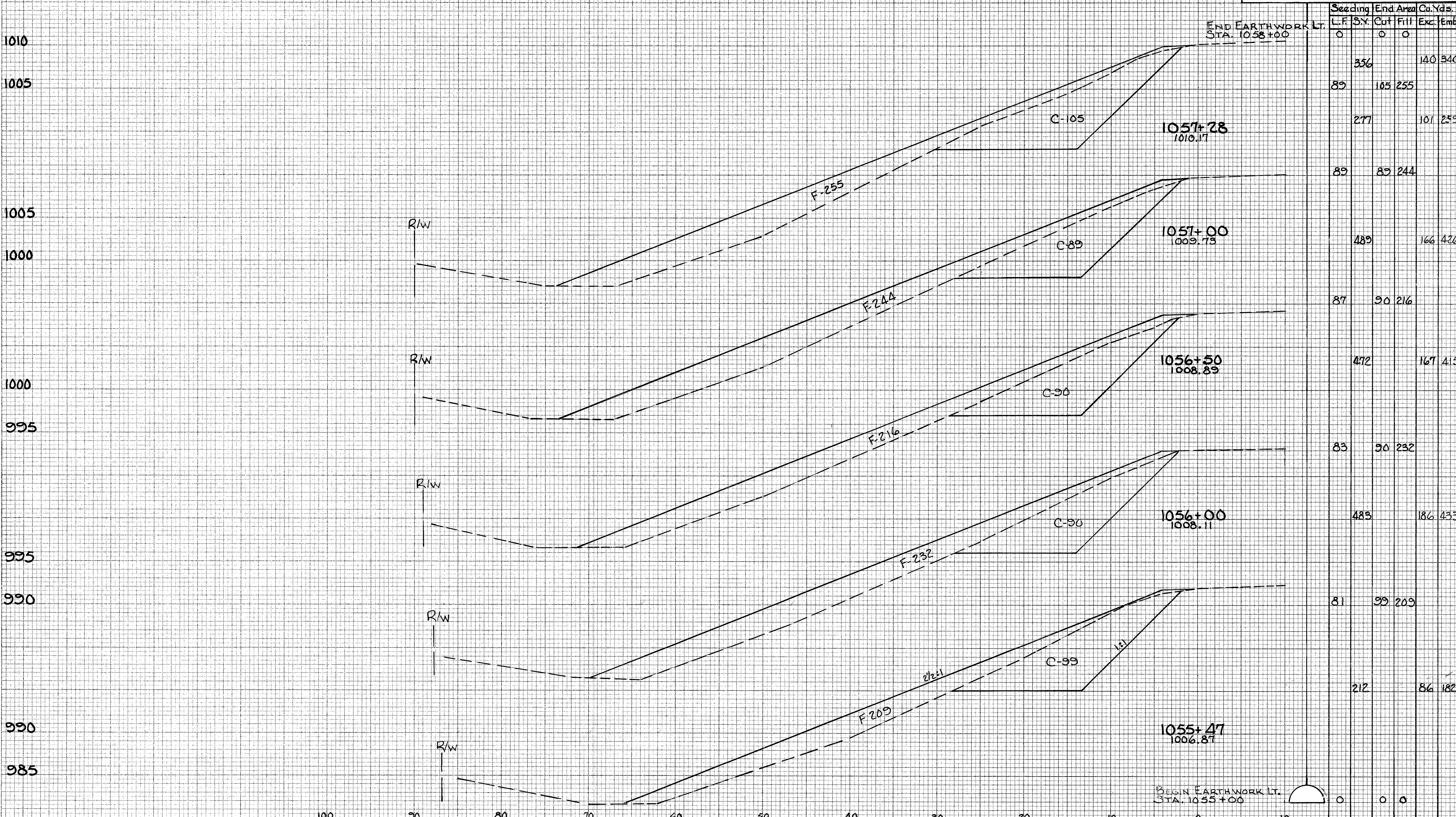
EXCAVATION	7463	CY.
EMBANKMENT	13877	CY.
SEEDING	8582	SY.



LINE SHEET STA. 1068+00 TO STA. 1078+00

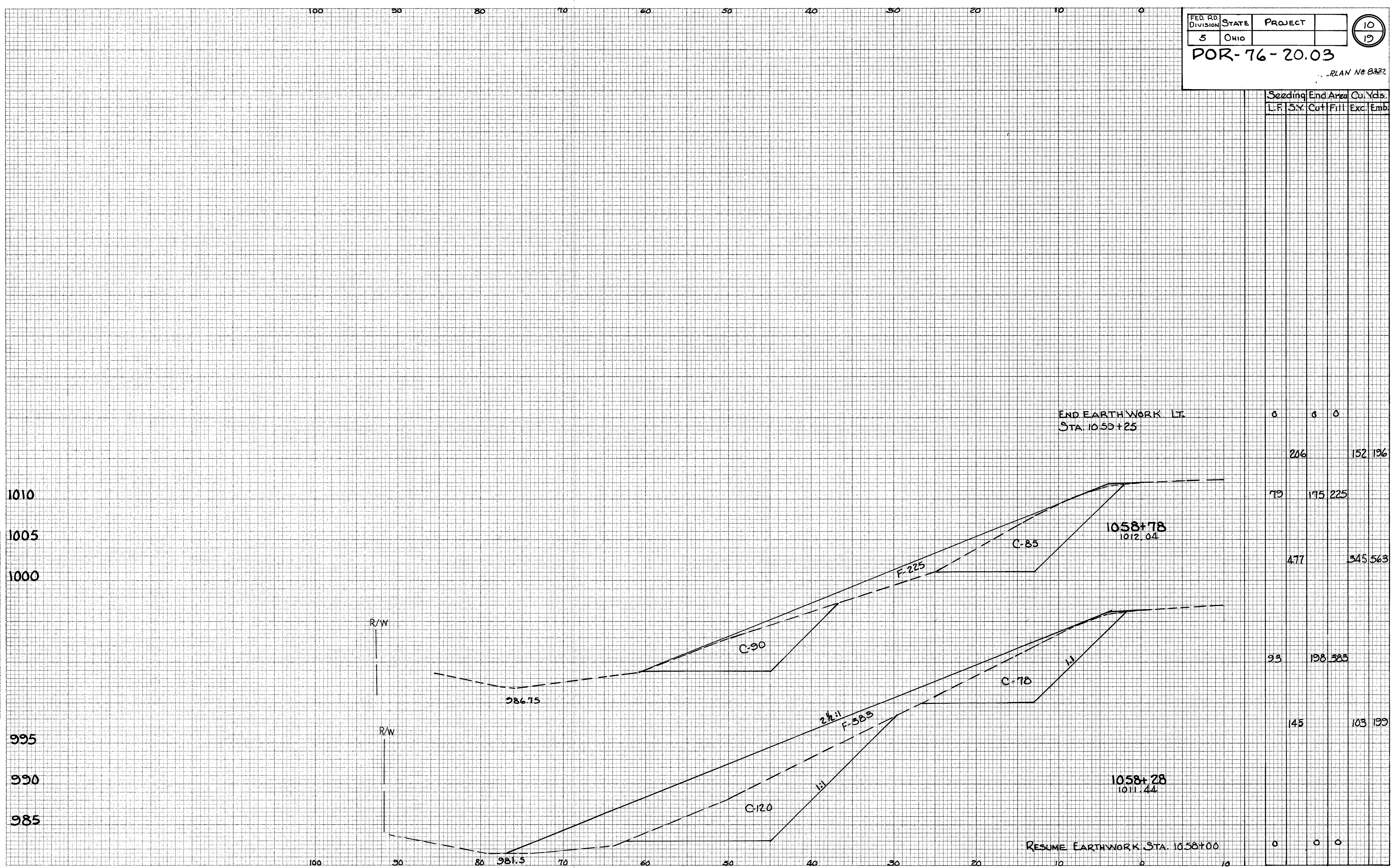
FINAL SURVEY DATE
 SURVEYED BY
 PLOTTED BY
 NOTE BOOK NO.
 AREAS CHECKED
 NO. OF SHEETS

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



FINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. DATE
 AREA SUFFICED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. DATE
 AREA SUFFICED

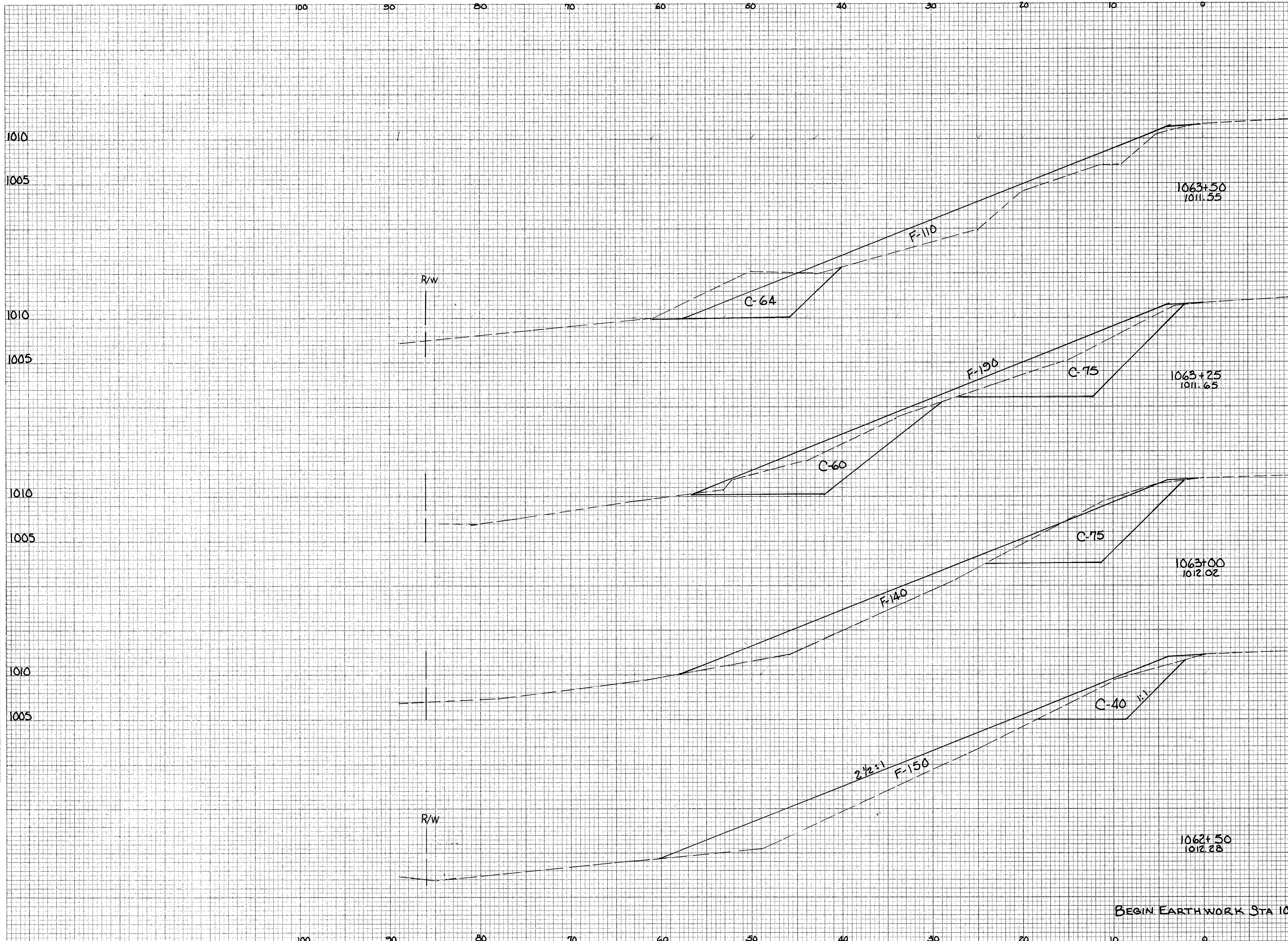


L.F.	SY.	End Area		Cu. Yds.	
		Cut	Fill	Exc.	Emb.
		0	0	0	0
		206		152	196
		79	175	225	
		477		345	563
		93	198	383	
		145		103	199
		0	0	0	0

CROSS SECTIONS STA. 1058+28 TO STA. 1058+78 (LT.)

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

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



L.F.	Seeding		End Area		Cu. Yds.	
	S.Y.	Co.	Fill	Exc.	Emb.	
75			64	110		
			201		92	139
70			195	190		
			199		97	153
73			75	140		
			419		107	269
78			40	150		
			108		19	69
0			0	0	0	

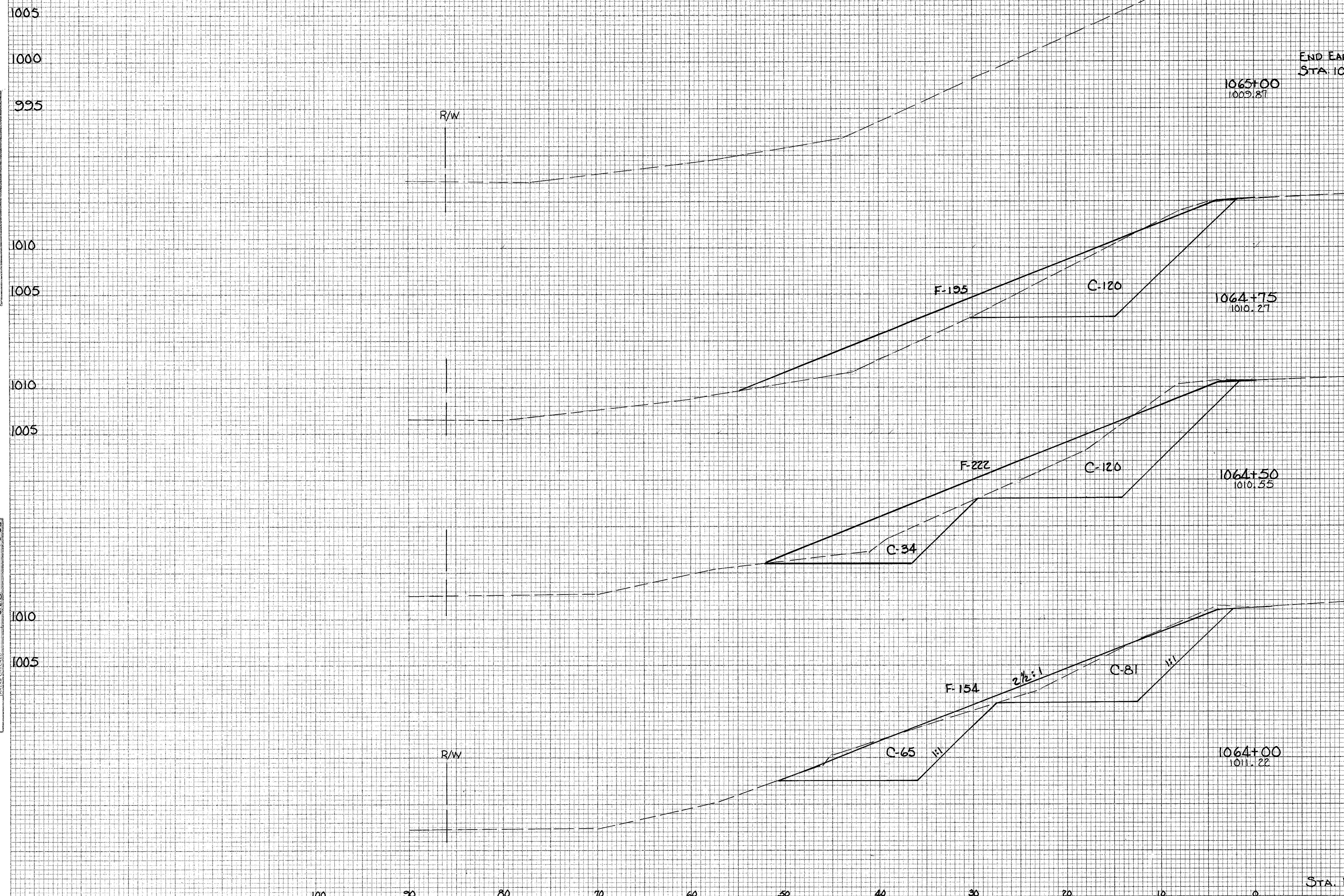
CROSS SECTIONS STA. 1062+50 TO STA. 1063+50 (LEFT)

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

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POR-76-20.03

PLAN NO. 8332



Seeding	End Area		Cu. Yds.
	L.F.	Sq. Ft.	
0	0	0	
96			56 90
69	120	195	
188			127 193
66	154	222	
367			278 348
66	146	154	
392			194 244
75	64	110	

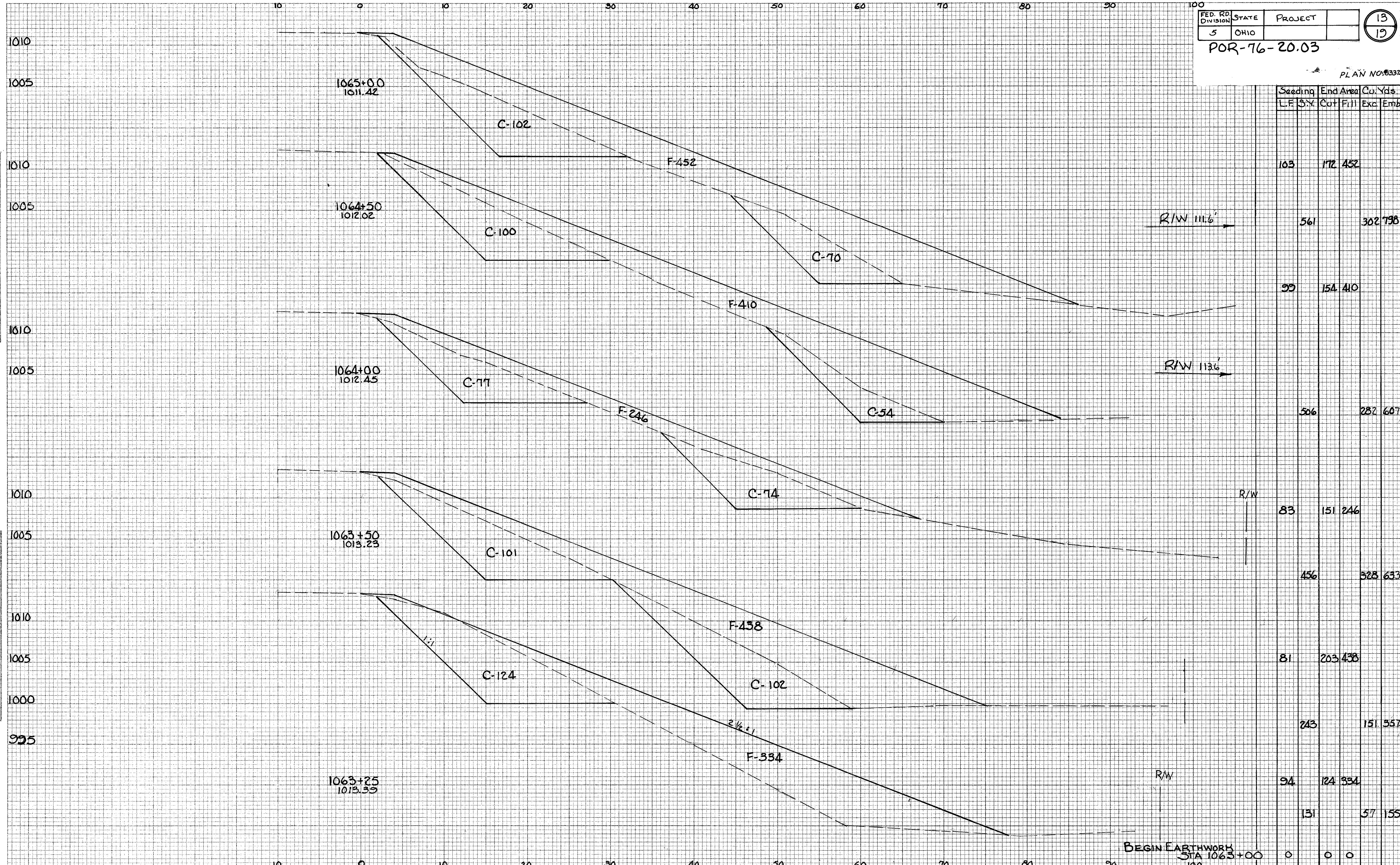
EXCAVATION	6212	CY
EMBANKMENT	12008	CY
SEEDING	10626	SQ.

FINAL SURVEY	DATE
NO.	

ORIGINAL SURVEY	DATE
NO.	

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. AIRAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. AIRAS CHECKED
 K.W. G.L.B.
 3.83
 3.83

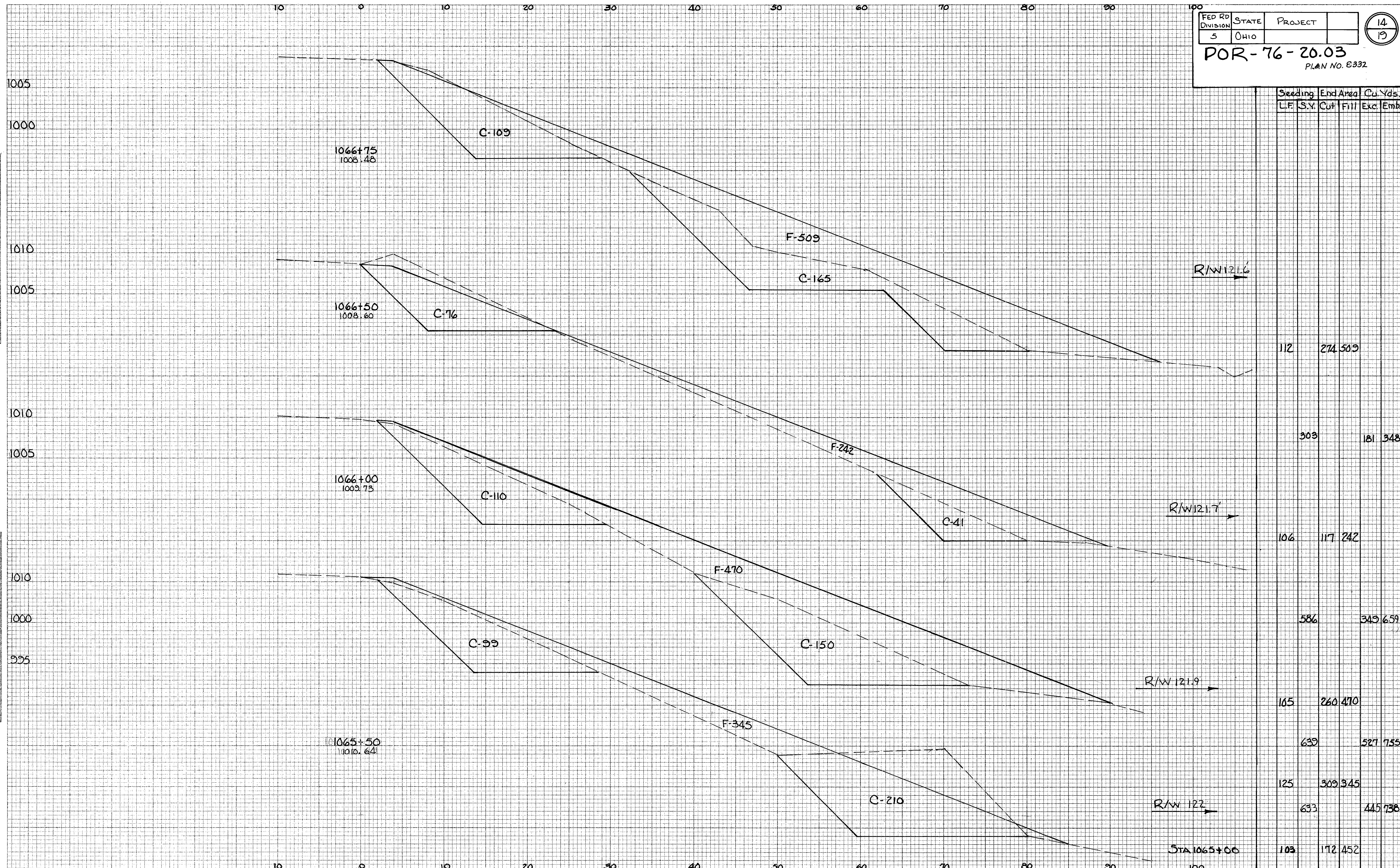


Station	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
103			172	452		
561					302	798
99			154	410		
506					282	607
83			151	246		
456					328	633
81			203	438		
243					151	357
94			124	334		
131					57	155
0			0	0		

CROSS SECTIONS STA. 1063+25 TO STA. 1065+00 (RT.)

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

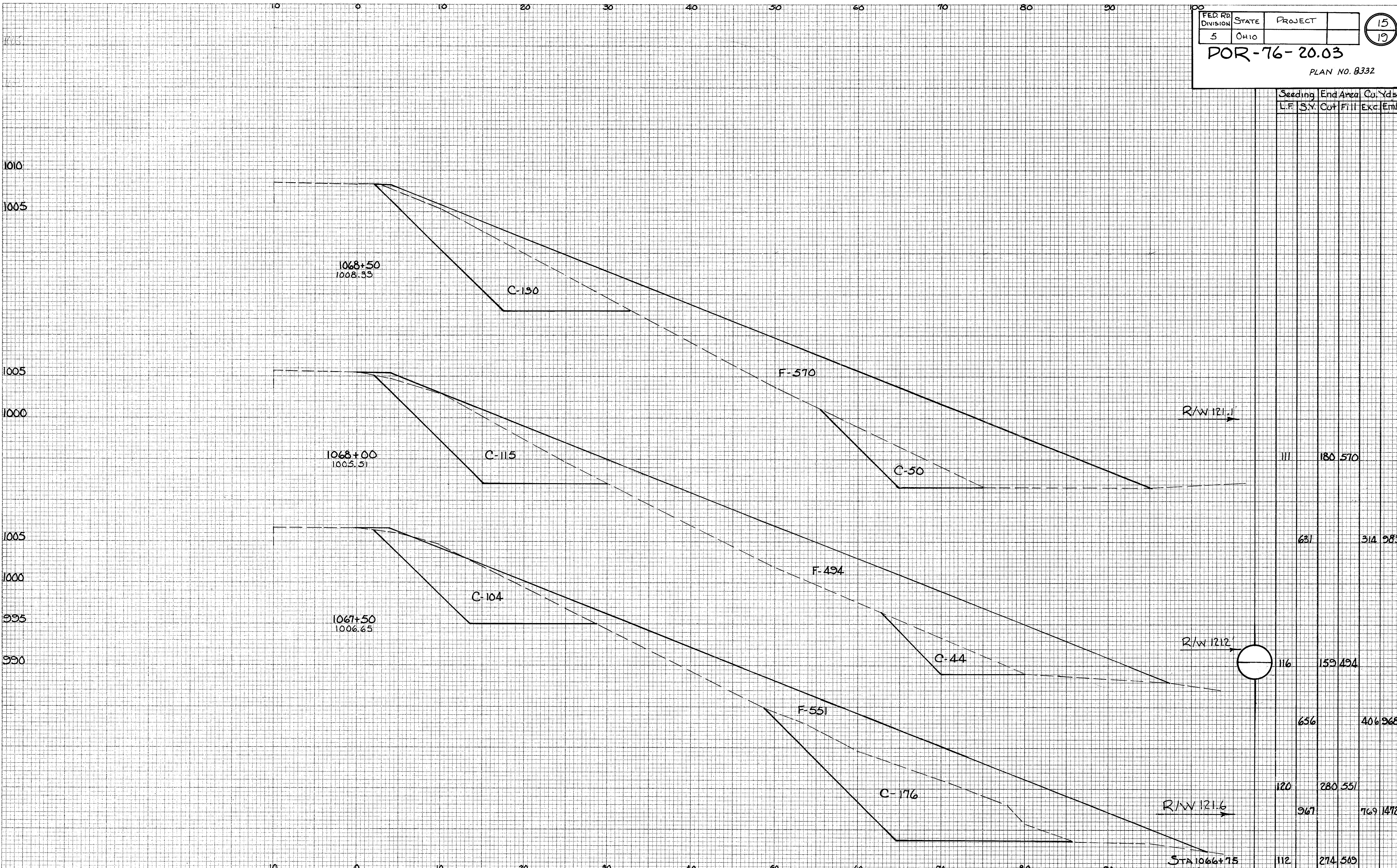
ORIGINAL SURVEY
DATE: 3-83
BY: K.W. G.L.B.
SURVEYED: _____
PLOTTED: _____
NOTE BOOK NO. _____
NO. _____
AREAS CHECKED: _____



Sta.	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1066+75						
1066+50	112		274	509		
1066+00	303		181	348		
1065+50	106		117	242		
	586				349	659
	105		260	470		
	639				527	735
	125		309	345		
	633				445	738
1065+00	103		172	452		

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

ORIGINAL SURVEY
DATE: 8/3/53
BY: K.V.B.
SURVEYED: G.L.D.
PLOTTED: K.V.B.
NOTE BOOK: _____
NO. _____
AREAS CHECKED: _____

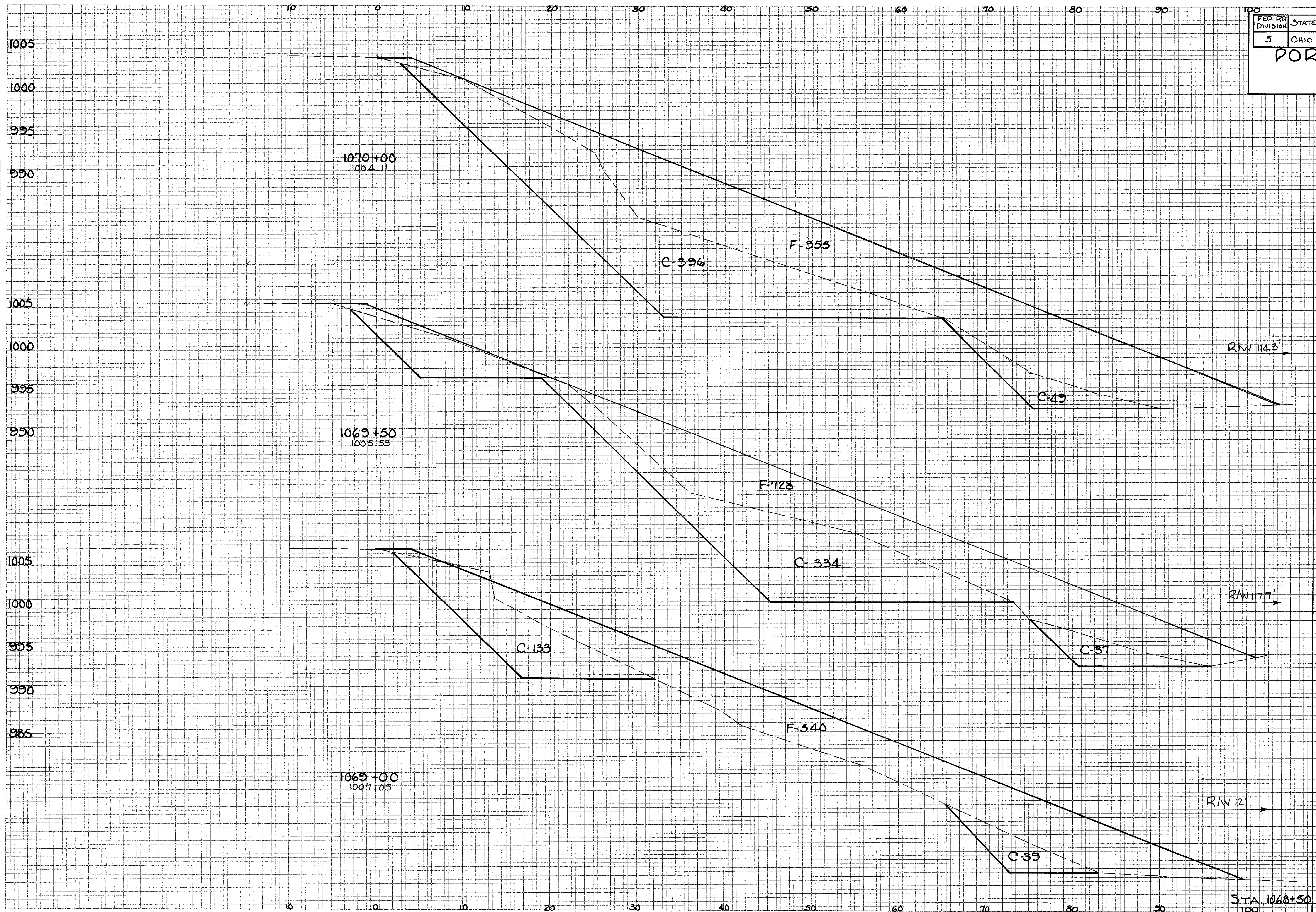


Sta.	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1066+75	112			274.509		
1067+50	636			406.968		
1068+00	111		180.570			
1068+50	111			180.570		

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
INDIANAPOLIS, INDIANA
CROSS SECTIONS STA. 1067+50 TO STA. 1068+50 (RT.)

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

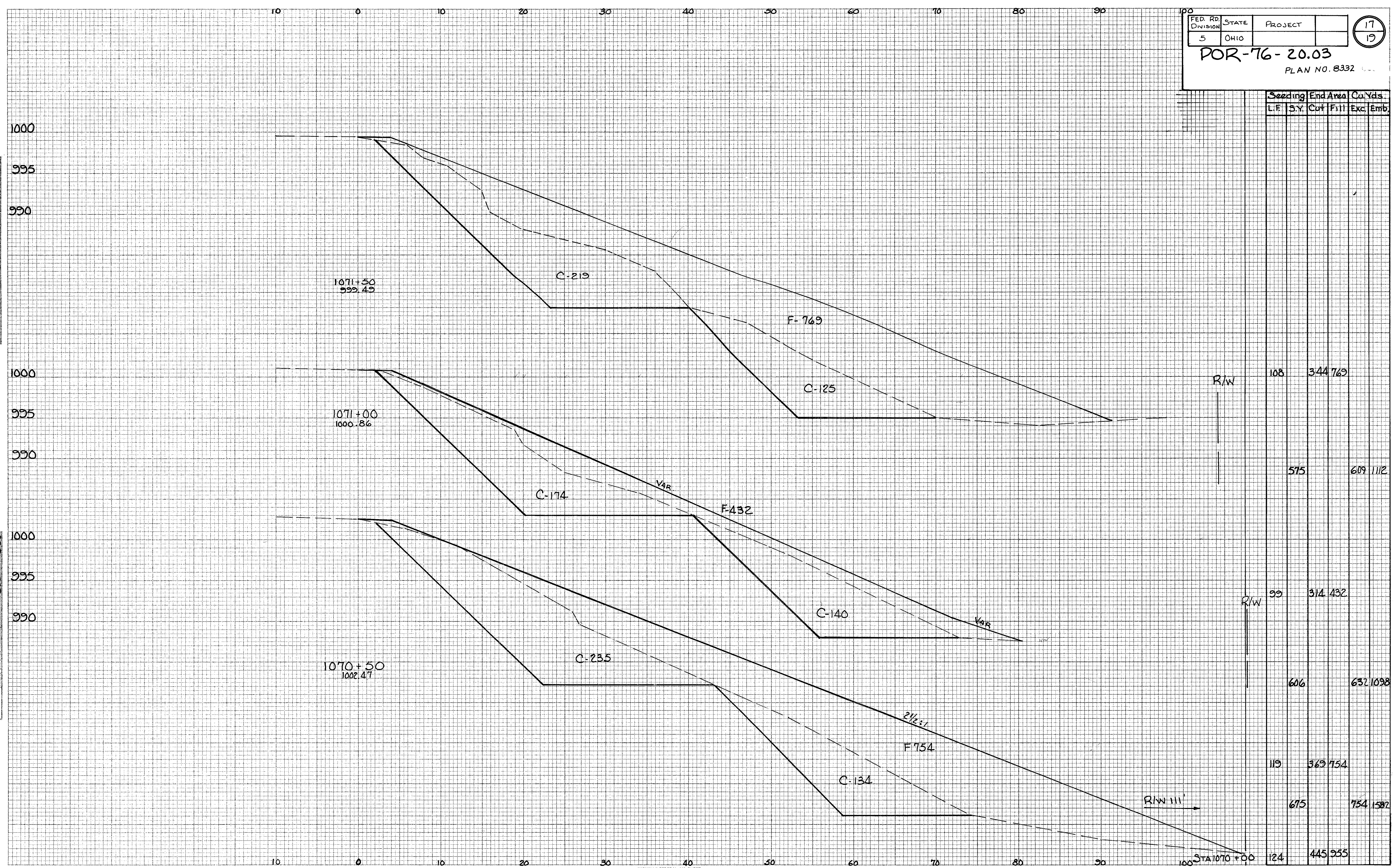
ORIGINAL SURVEY BY DATE
 SURVEYED BY
 PLOTTED BY
 NOTE BOOK NO.
 AREAS CHECKED:



Sta.	Seeding		End Area		Cu. Yds.	
	L.	S.	Cut	Fill	Exc.	Emb.
1070+00	124			445	955	
1069+50		683			156	1558
1069+00	122		371	728		
		664			503	1174
1068+50	117		172	540		
		633			376	1078
1068+50	111		186	570		

FINAL SURVEY BY DATE
 SURVEYED BY K.V. 3/83
 PLOTTED BY G.L.B. 3/83
 NOTE BOOK NO. 1719
 AREA CHECKED BY C.L.B. 3/83

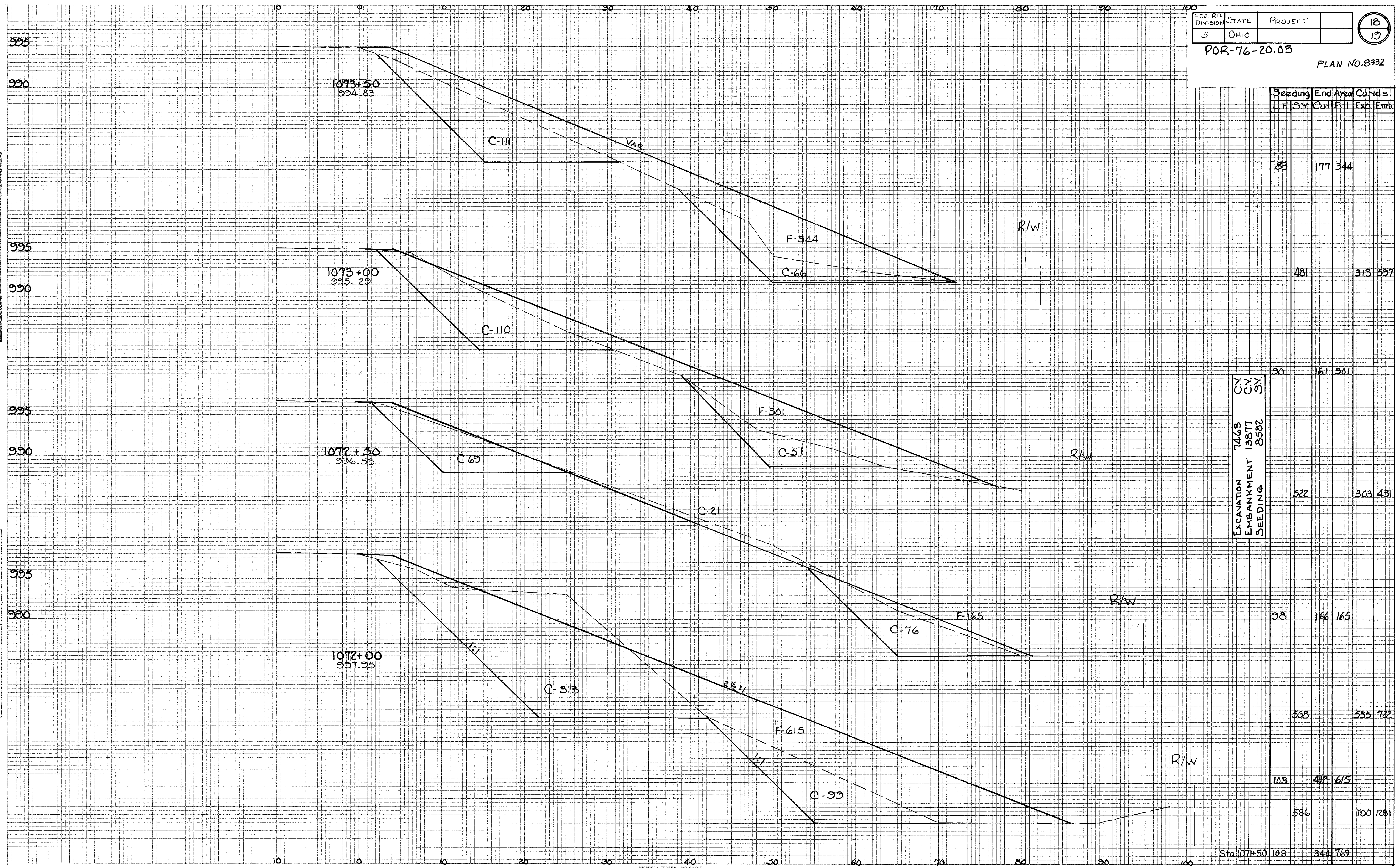
ORIGINAL SURVEY BY DATE
 SURVEYED BY K.V. 3/83
 PLOTTED BY G.L.B. 3/83
 NOTE BOOK NO. 1719
 AREA CHECKED BY C.L.B. 3/83



Sta.	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1071+50						
1071+00	108		344	769		
1070+50	575				609	1112
	99		314	432		
	606				632	1098
	119		369	754		
	675				754	1587
1070+00	124		445	955		

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

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



Stn.	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1073+50	83		177	344		
1073+00	481				313	597
1072+50	30		161	301		
1072+00	522				303	431
1071+50	98		166	165		
1070+50	558				535	722
1069+50	103		412	615		
1068+50	586				700	1281
Sta. 1071+50 to 108			344	769		

EXCAVATION 7463
 EMBANKMENT 13877
 SEEDING 8582

FED RD DIVISION	STATE	PROJECT	
5	OHIO		

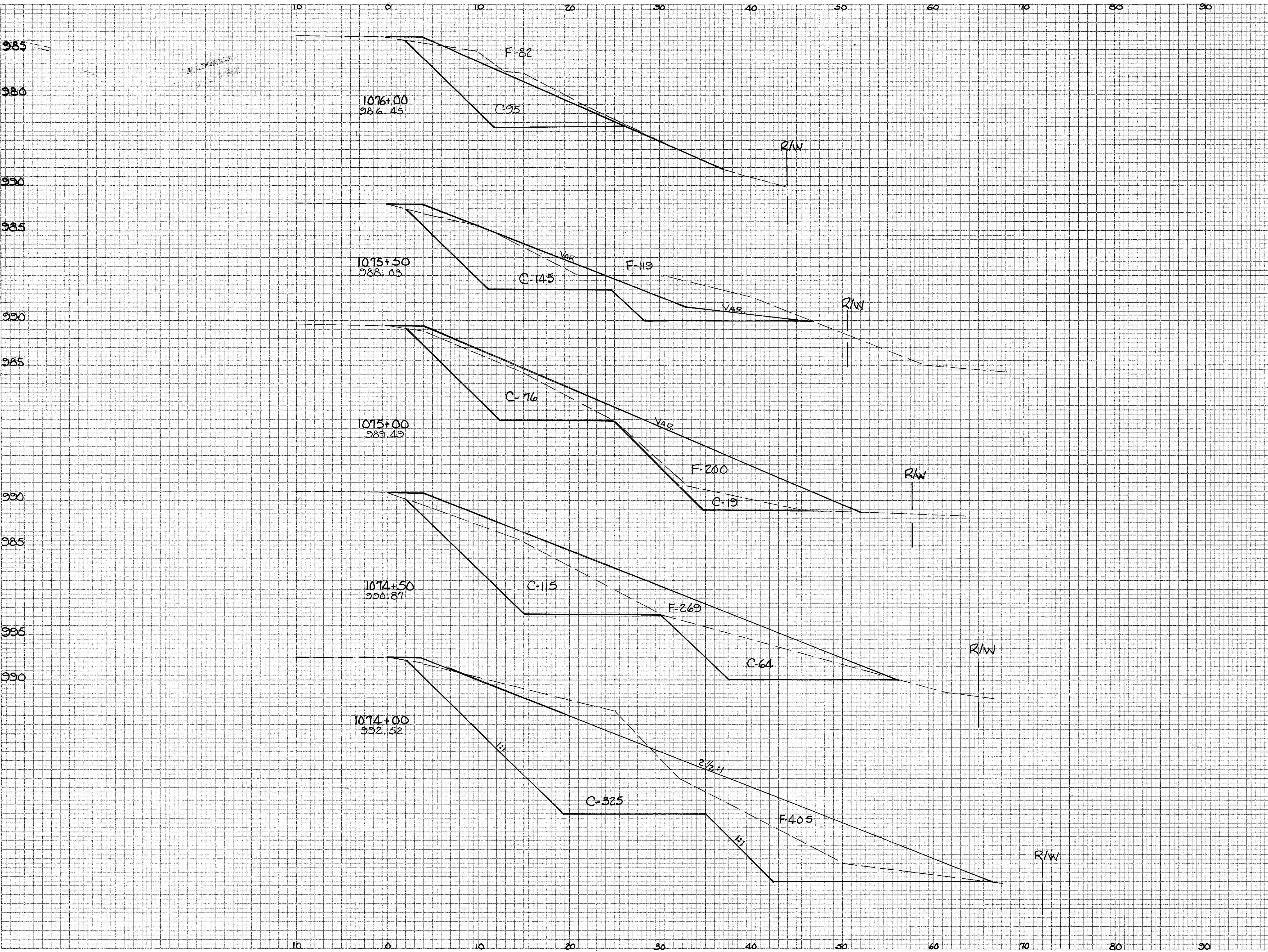
19
19

POR-76-20.03

PLAN NO. 8332

FINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	NOTE BOOK	
	NO.	
	AREAS DISIGNED	

ORIGINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	9/83
	TEMPLATE	9/83
	NOTE BOOK	9/83
	NO.	
	AREAS DISIGNED	



Sta.	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1076+00	0	133	0	0	88	76
1075+50	48		95	82		
		283			222	186
1075+00	54		145	119		
		322			222	295
1074+50	62		95	200		
		369			254	434
1074+00	71		179	269		
		414			467	624
	78		325	405		
		447			465	694
1073+50	83		177	344		

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
INTELEPHONE NATIONAL TRACING PAPER
PRINTED IN U.S.A.

CROSS SECTIONS STA. 1074+00 TO STA. 1076+00 (RT.)

2-8002 - Ref - 23