JOB 9496

198

DATE REVISED	DATE FILMED
8-26-70	6-25-8-27-70
4-21-72	[illegible]

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	NO. SHEET	TOTAL SHEETS
6	ARK.	S			
JOB NO.		9496		1	119

④ IMO-NORTH

STATE OF ARKANSAS

STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

IMO - NORTH

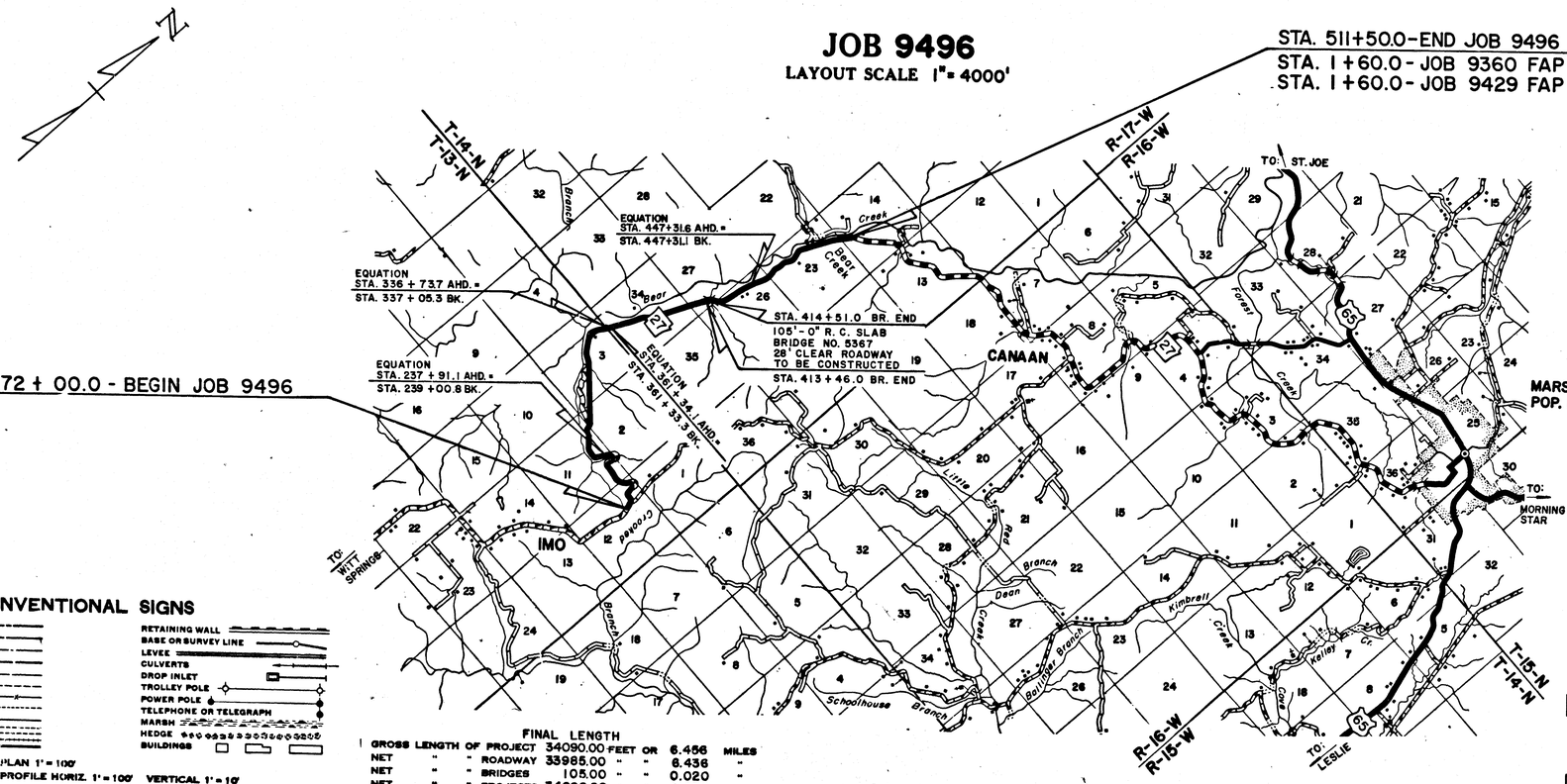
SEARCY COUNTY

ROUTE 27 SECTION 16

JOB 9496

LAYOUT SCALE 1" = 4000'

STA. 511+50.0-END JOB 9496
STA. 1+60.0-JOB 9360 FAP S-70(1)
STA. 1+60.0-JOB 9429 FAP S-70(2)



DESIGN DATA

ADT 1970 = 75
ADT 1990 = 150
T = 7%
V = 30 MPH
EXCEPT WHERE SHOWN ON PLANS.

RECOMMENDED FOR APPROVAL

BRIDGE DESIGN ENGINEER

RECOMMENDED FOR APPROVAL

ROADWAY DESIGN ENGINEER

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER

APPROVED

CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL

DATE

APPROVED

DIVISION ENGINEER DATE

CONTRACT LET 9-30-70

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY OR VILLAGE
TOWNSHIP LINE
SECTION LINE
GRANT LINE
FENCE LINE
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
RETAINING WALL
BASE OR SURVEY LINE
LEVEE
CULVERTS
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH
MARSH
HEDGE
BUILDINGS

SCALES { PLAN 1" = 100'
PROFILE HORIZ. 1" = 100' VERTICAL 1" = 10'

FINAL LENGTH

GROSS LENGTH OF PROJECT	34090.00	FEET OR	6.456	MILES
NET " " ROADWAY	33985.00	" "	6.436	"
NET " " BRIDGES	105.00	" "	0.020	"
NET " " PROJECTS	34090.00	" "	6.456	"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-26-70	666 9-27-70	5-27-70	704 5-27-70	6	ARK.	5		
5-26-70	707 9-24-70	5-27-70	717 5-27-70	JOB NO.		9496	2	119
		6-1-70	721 6-1-70					

IND SHTS SPEC PROV & GEN NOTES

4

SHEET NO. — INDEX OF SHEETS — DRAWING NO.

1.....TITLE SHEET
2.....INDEX OF SHEETS, SPECIAL PROVISIONS & GENERAL NOTES
3.....TYPICAL SECTIONS OF IMPROVEMENT & SPECIAL DETAILS
4.....DELETED
5-6.....QUANTITY SHEETS
7.....DELETED
8.....SUMMARY OF BRIDGE QUANTITIES.....16877
9.....QUANTITIES AND SUMMARY OF QUANTITIES
10-21.....PLAN AND PROFILE SHEETS
22.....LAYOUT OF BRIDGE OVER WATTS CREEK.....16878
23.....DETAILS OF R.C.COLUMN BENTS.....16879
24.....SHEET 1 OF 2 DETAILS OF STANDARD 35' SLAB SPANS WITH VOIDS.....14940
25.....SHEET 2 OF 2 DETAILS OF STANDARD 35' SLAB SPANS WITH VOIDS.....14941
26.....DETAILS OF STANDARD TYPE C BRIDGE NAME PLATES.....2389A
27.....DELETED
28.....EMBANKMENT CONSTRUCTION AT BRIDGE ENDS AND BACKFILL FOR STRUCTURES.....1888(REV) 7/10/57
29.....METHOD OF DEFINING LIMITS OF STRUCTURAL AND CHANNEL EXCAVATION AT BOX CULVT.SITES.1891B 1/28/70
30.....DETAILS FOR DUMPED RIPRAP AND FILTER BLANKET AND DETAILS FOR COMPUTING EXCAVATION FOR STRUCTURES.....1891D
31.....STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION.....1896A
32.....DELETED
33.....ARCH PIPE CULVERTS.....FPC-11(REV) 2/3/67
34.....FILL HEIGHTS AND BEDDINGS FOR PIPE CULVERTS.....FPC-19 10/16/68
35.....STD. PIPE CULVERTS AND HEADWALLS.....FPC-20 NOV.1966
36.....DELETED
37.....DELETED
38.....DELETED
39.....REINFORCED CONCRETE RIGHT-OF-WAY MARKERS.....FPM-3 3/12/70
40.....DETAILS OF SPECIAL ITEMS.....S.I.-1(REV) 8/25/69
41.....TABLES AND METHODS FOR SUPERELEVATION.....S.T.-4 DEC.1956
42.....TABLES AND METHODS FOR SUPERELEVATION.....S.T -6 4/21/65
43.....STD. BARREL FOR R.C. BOX CULVERTS.....R- 100X-D
44.....STD. BARREL FOR R.C.BOX CULVERTS.....R-100X-X2
45.....DELETED
46.....STD. BARREL FOR R.C.BOX CULVERTS.....R-130X-0
47.....STD. BARREL FOR R.C.BOX CULVERTS.....R-200X-0
48.....DELETED
49.....DELETED
50.....DELETED
51.....DELETED
52.....STD. WINGS FOR R.C.BOX CULVERTS.....W-X002-1
53.....STD. WINGS FOR R.C.BOX CULVERTS.....W-X002-2
54.....DELETED
55.....DELETED
56.....DELETED
57.....DELETED
58.....STD. WINGS FOR R.C.BOX CULVERTS.....W-X30
59.....STD. WINGS FOR R.C.BOX CULVERTS.....W-X302-1
60.....DELETED
61.....DELETED
62.....DELETED
63.....MASS DIAGRAM
64.....DETAILS SHOWING LIMITS OF SPECIAL BARREL SECTIONS & BAR GROUP FOR R.C.BOX CULVERTS.
65.....DELETED
66-119.....CROSS SECTIONS

NOTE: CROSS SECTIONS NOT NORMALLY INCLUDED IN PLANS SOLD TO PROSPECTIVE BIDDERS BUT MAY BE HAD ON REQUEST.

GENERAL NOTES:

LEVEL DATUM IS U.S.C.&G.S.
GRADE LINE DENOTES SUBGRADE.
UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE MOVED BY THE OWNERS.
TREES SERVING A USEFUL OR ORNAMENTAL PURPOSE AND NOT INTERFERING WITH CONSTRUCTION SHALL BE RETAINED.
USE Ls = 200; UNLESS OTHER NOTED, AND REVOLVE SUPERELEVATION ABOUT CENTERLINE.
ALL SALVAGE CULVERT PIPE SHALL BE STORED ON RIGHT-OF-WAY AND SHALL BECOME PROPERTY OF STATE HIGHWAY MAINTENANCE DEPARTMENT.
THE CONTRACTOR WILL BE RESPONSIBLE FOR PLACING AND MAINTAINING U.S.MAIL BOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER AS TO PROVIDE CONTINUOUS MAIL SERVICE. PAYMENT TO BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
USE STD. DWG. ST-6 FOR CURVE AT STA. 192+00. ST-4 SHALL BE APPLICABLE TO ALL OTHER CURVES.

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, THE 1966 SUPPLEMENTAL SPECIFICATIONS THERETO AND THE FOLLOWING SPECIAL PROVISIONS:

NUMBER — TITLE

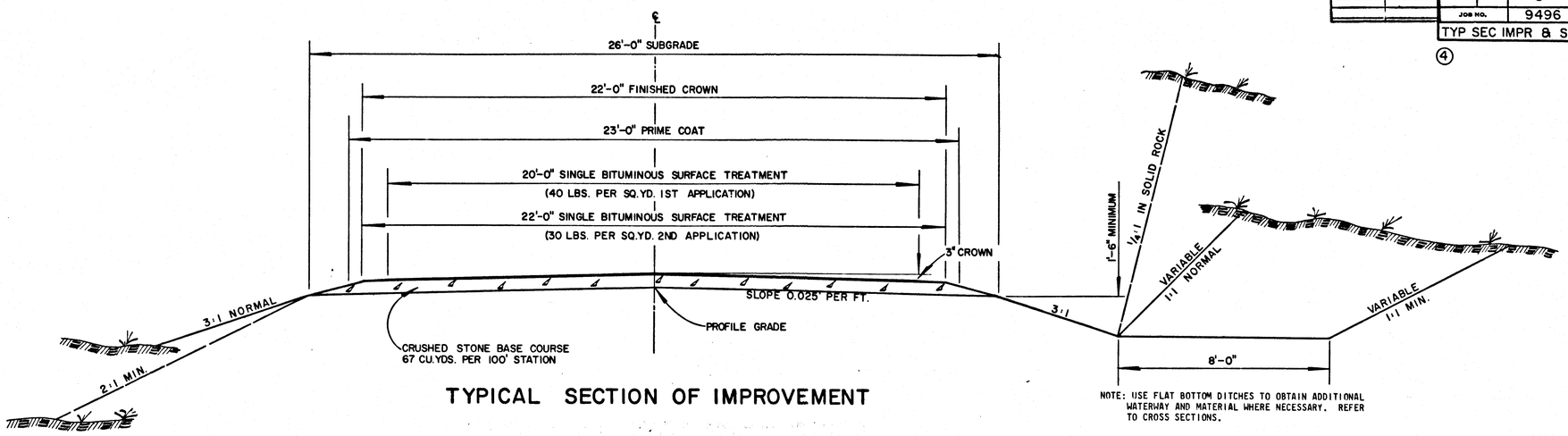
3-1....AWARD OF CONTRACT
4-1....PLANT SITES AND EQUIPMENT STORAGE AREAS
6-3....SOURCES OF MATERIALS
6-6....FURNISHING MATERIALS FROM BARS, PITS OR QUARRIES
6-7....CONTROL OF MATERIALS
7-28...PLANT PEST CONTROL
7-29...PROTECTION OF STREAMS, LAKES AND RESERVOIRS
7-30...CONTRACTOR'S RESPONSIBILITY FOR DAMAGE CLAIMS
8-8....COMPUTATION OF CONTRACT TIME FOR COMPLETION
8-11...LIMITATIONS TO SUBLETTING OR ASSIGNING THE CONTRACT
8-15...EMPLOYMENT OF LABOR
9-11...REVISION OF ARTICLE 9.7 - PARTIAL PAYMENTS
100-1....FURNISHING FIELD OFFICES AND LABORATORIES
103-2....ROADWAY EXCAVATION
107-1....SPECIAL COMPACTION OF EARTHWORK
203-2....CRUSHED STONE BASE COURSE
506-4....HEATING BITUMINOUS MATERIALS
802-9....LINSEED OIL TREATMENT OF CONCRETE
802-10...CONCRETE FOR STRUCTURES
803-6....REINFORCING STEEL FOR STRUCTURES
817A-1...FILTER BLANKET AND DUMPED RIPRAP
909-7....CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY)
909-8....REINFORCED CONCRETE ARCH PIPE CULVERTS
909-10...CORRUGATED METAL PIPE CULVERTS(STEEL)
912-2....PIPE UNDERDRAINS
923-1....RIGHT-OF-WAY & PROJECT MARKERS
1008-2....MAINTENANCE OF TRAFFIC
JOB 9496....TRAFFIC CONTROL DEVICES
JOB 9496....UTILITY ADJUSTMENTS

GRAHAM BLUE PRINT CO. 1966M 5-69

DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-26-70	667 8-11-70	6	ARK.	S		
		JOB NO.		9496	3	113

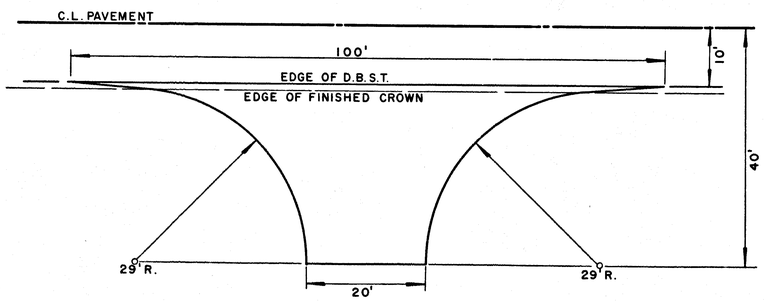
TYP SEC IMPR & SPEC DTLS

4



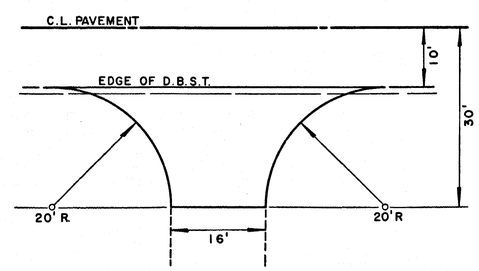
TYPICAL SECTION OF IMPROVEMENT

NOTE: USE FLAT BOTTOM DITCHES TO OBTAIN ADDITIONAL WATERWAY AND MATERIAL WHERE NECESSARY. REFER TO CROSS SECTIONS.



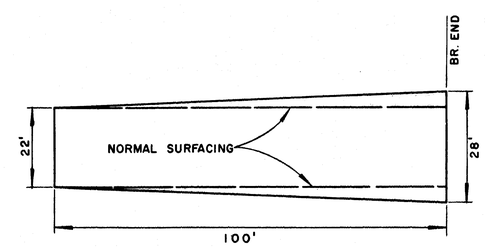
DETAIL OF TURNOUT FOR COUNTY ROADS

ADDITIONAL 6" BASE = 29 CU. YDS.



DETAIL OF ENTRANCE FOR PRIVATE DRIVES

ADDITIONAL 6" BASE = 15 CU. YDS.



BRIDGE TRANSITION

ADDITIONAL SURFACING
D.B.S.T. (2 ND. APPLICATION) = 33.3 SQ. YDS.
ADDITIONAL 6" BASE = 9 CU. YDS.

NOTE: THE ABOVE DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER

GRAHAM BLUE PRINT CO. 1961M 2-69

DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6-26-70	1/18/2273a	6	ARK.	S		
		JOB NO.	9496		5	113

QUANTITY SHEET

④

BASE & SURFACING QUANTITIES

STATION	STATION	LENGTH	CRUSHED STONE BASE COURSE	23'-0" SURFACE AREA: SQUARE YARDS	23'-0" SURFACE AREA: PRIME COAT	DOUBLE BITUMINOUS SURFACE TREATMENT 20'-0"(1ST APPLICATION): SQUARE YARDS	20'-0"(1ST APPLICATION): CLASS 10 MIN.AGGR.	20'-0"(1ST APPLICATION): ASPHALT	22'-0"(2ND APPLICATION): SQUARE YARDS	22'-0"(2ND APPLICATION): CLASS 10 MIN.AGGR.	22'-0"(2ND APPLICATION): ASPHALT
		LIN.FT.	CU.YDS.		GALLONS		CU.YDS.	GALLONS		CU.YDS.	GALLONS
172+00.0	239+00.8	6700.8	4489.5	17124.3	6849.7	14890.7	248.2	5956.3	16379.7	204.7	4913.9
237+91.1	337+05.3	9914.2	6642.5	25336.3	10134.5	22031.6	367.2	8812.6	24234.7	302.9	7270.4
336+73.7	361+33.3	2459.6	1647.9	6285.6	2514.2	5465.8	91.1	2186.3	6012.4	75.2	1803.7
361+34.1	413+46.0	5211.9	3492.0	13319.3	5327.7	11582.0	193.0	4632.8	12740.2	159.3	3822.1
414+51.0	447+31.1	3280.1	2197.7	8382.5	3353.0	7289.1	121.5	2915.6	8018.0	100.2	2405.4
447+31.6	511+50.0	6418.4	4300.3	16402.6	6561.0	14263.1	237.7	5705.2	15689.4	196.1	4706.8
ADDITIONAL			1028.0	66.6	26.6				66.6	1.9	46.6
TOTALS:		33985.0	23797.9	86917.2	34766.7	75522.3	1258.7	30208.8	83141.0	1040.3	24968.9
USE:			23798 CU.YDS. OR 33317 TONS		34767		1259	30209		1040	24967

BASIS OF ESTIMATE:
CRUSHED STONE BASE COURSE(CLASS SB-2)..... 67 CU.YDS. PER 100' STA.
PRIME COAT..... 0.4 GAL. PER SQ.YD.
CLASS 10 MINERAL AGGREGATE(1 ST APPLICATION)..... 40 LBS. PER SQ.YD.
CLASS 10 MINERAL AGGREGATE(2 ND APPLICATION)..... 30 LBS. PER SQ.YD.
ASPHALT..... 0.7 GAL. PER SQ.YD.

EARTHWORK

STATION	STATION	UNCLASSIFIED EXCAVATION: NORMAL	UNCLASSIFIED EXCAVATION: APPR.ETC.	UNCLASSIFIED EXCAVATION: BRIDGE CHANNEL CHANGE	UNCLASSIFIED EXCAVATION: TOTAL	EMBANKMENT MATERIAL	SPEC.COMP. OF EARTHWORK
		C U B I C Y A R D S					
172+00.0	204+15.8	14023	665		14688		14023
204+15.8	237+58.8	18833	85		18918	4500	23333
237+58.8	277+90.7	30689	165		30854		30689
277+90.7	325+60.6	18947	165		19112		18947
325+60.6	365+14.0	7994	345		8339		7994
365+14.0	398+02.2	3653	200		3853	1300	4953
398+02.2	438+33.9	2574	335	** 1800	4709	1900	6274
438+33.9	484+50.2	8897	745		9642		8897
484+50.2	511+50.0	* 8421	530		8951		3932
TOTAL:		114031	3235	1800	119066	7700	119042

* WASTE 4489 CU.YDS. AS APPROVED BY THE ENGINEER.
** USE BRIDGE CHANNEL CHANGE IN NORMAL EMBANKMENT 2' BELOW SUBGRADE AS APPROVED BY THE ENGINEER

ADDITIONAL BASE & SURFACING QUANTITIES

STATION	STATION OR SIDE	DESCRIPTION	CRUSHED STONE BASE COURSE	SURFACING AREA
			CU.YDS.	SQ.YDS.
176+00	RT.	CO.RD.TURNOUT	50	
367+40	LT.	CO.RD.TURNOUT	50	
438+50	LT.	CO.RD.TURNOUT	50	
489+40	LT.	CO.RD.TURNOUT	90	
492+40	LT.	CO.RD.TURNOUT	170	
413+46	414+51	2 BR.TRANSITIONS	18	66.6
ENTIRE PROJECT		40 PRIVATE DRIVES	600	
TOTALS:			1028	66.6

PIPE UNDERDRAINS (6")

STATION	STATION	LINEAR FEET
ENTIRE PROJECT		500
TOTAL:		500

NOTE: ESTIMATED,TO BE INSTALLED AS DIRECTED BY THE ENGINEER. SEE DRAWING NO. S.I.-1(REV).

RIGHT-OF-WAY MARKERS

STATION	STATION	TYPE A
		EACH
ENTIRE PROJECT		349
TOTAL:		349

MOVING MINOR OBSTRUCTIONS

STATION	SIDE	DESCRIPTION
229+00	RT.	10'X4'X21' WOOD PLANK CULVERT.
509+00	LT.&RT.	2 R.O.W. MARKERS

NOTE: PAYMENT TO BE SUBSIDIARY TO THE VARIOUS BID ITEMS.

MISC. REMOVAL ITEMS (BY OTHERS)

STATION	SIDE	DESCRIPTION
329+70	RT.	9'X11',1-S-F- STORAGE BLDG.
330+00	RT.	11'X15' 1-S-F- STORAGE BLDG.
330+20	LT.	WELL
330+40	C.L.	26'X37' 1-S-F- VACANT HOUSE

NOTE: NOT PART OF THIS CONTRACT, TO BE MOVED BY OTHERS

CLEARING & GRUBBING

STATION	STATION	CLEARING	GRUBBING
		A C R E S	
172+00	177+00	0.23	0.23
177+00	209+00	3.32	3.32
209+00	239+00	4.56	4.56
239+00	271+00	3.81	3.81
271+00	303+00	2.86	2.86
303+00	335+00	3.48	3.48
335+00	367+00	4.03	4.03
367+00	399+00	1.58	1.58
399+00	431+00	2.42	2.42
431+00	463+00	2.27	2.27
463+00	495+00	2.35	2.35
495+00	511+50	1.22	1.22
TOTALS:		32.13	32.13

NOTE: CLEARING & GRUBBING AREA SHALL CONSIST OF THE ACTUAL CONTRUCTION LIMITS(TOE SLOPES) PLUS FIVE FEET.

GRAHAM BLUE PRINT CO. 1964M 5-69

STRUCTURES

STATION	DESCRIPTION	SPAN	HEIGHT	LENGTH	CROSS DRAIN PIPE CULVERTS 24" FPC-19 DESIGNATION NO. 10 LINE	30" 17	36" 27	42" 33	42" 37	48" 40	54" 47	SIDE DRAIN ARCH PIPE CULVERTS 1.5 SQ.FT. WATERWAY EE	2.8 SQ.FT. WATERWAY EE	CLASS "S" CONCRETE CU.YDS.	REINF. STEEL POUNDS	UNCL.EXC FOR STRS. CU.YDS.	STANDARD DRAWING NUMBER
176+50	CONSTRUCT PIPE CULVERT				34												FPC-19
179+20	CONSTRUCT PIPE CULVERT				86												FPC-19
186+00	CONSTRUCT PIPE CULVERT				38												FPC-19
190+08	CONSTRUCT PIPE CULVERT				36												FPC-19
191+67	CONSTRUCT PIPE CULVERT								160					3.66	93		FPC-19&20
200+00	CONSTRUCT PIPE CULVERT				38												FPC-19
209+00	CONSTRUCT PIPE CULVERT					32								1.81	68		FPC-19&20
212+60	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
215+32	CONSTRUCT PIPE CULVERT							54						3.66	93		FPC-19&20
219+50	CONSTRUCT PIPE CULVERT				40												FPC-19
228+50	CONSTRUCT R.C.BOX CULVERT SPAN= 8.67'	7	9	107										135.69	15235	50	W-X002-2,R-100X-X2
234+90	CONSTRUCT PIPE CULVERT						34							2.95	80		FPC-19&20
247+50	CONSTRUCT PIPE CULVERT				50												FPC-19
252+00	CONSTRUCT PIPE CULVERT					34								1.81	68		FPC-19&20
254+75	CONSTRUCT PIPE CULVERT						34							2.95	80		FPC-19&20
257+50	CONSTRUCT PIPE CULVERT						34							2.95	80		FPC-19&20
263+50	CONSTRUCT PIPE CULVERT				38												FPC-19
267+35	CONSTRUCT PIPE CULVERT										102			5.25	117		FPC-19&20
276+11	CONSTRUCT PIPE CULVERT						48							2.95	80		FPC-19&20
281+50	CONSTRUCT PIPE CULVERT 30° L.F.S.						70							3.04	83		FPC-19&20
284+03	CONSTRUCT PIPE CULVERT							36						3.66	93		FPC-19&20
289+28	CONSTRUCT PIPE CULVERT				34												FPC-19
291+68	CONSTRUCT PIPE CULVERT				36												FPC-19
297+00	CONSTRUCT PIPE CULVERT				42												FPC-19
299+12	CONSTRUCT PIPE CULVERT				54												FPC-19
300+39	CONSTRUCT PIPE CULVERT					40								1.81	68		FPC-19&20
305+06	CONSTRUCT R.C.BOX CULVERT SPAN = 8.5'	7	9	64										81.00	7445	29	W-X002-2,R-100X-X2
311+00	CONSTRUCT PIPE CULVERT					48								1.81	68		FPC-19&20
317+31	CONSTRUCT PIPE CULVERT				50												FPC-19
323+64	CONSTRUCT PIPE CULVERT						48							2.95	80		FPC-19&20
330+00	CONSTRUCT PIPE CULVERT					38								1.81	68		FPC-19&20
332+55	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
342+32	CONSTRUCT DBL.R.C.BOX CULVERT SPAN= 11.67'	5	5	32										33.07	4741	15	W-X002-1,R-200X-0
342+65	CONSTRUCT R.C.BOX CULVERT SPAN= 5.0'	4	4	35										16.29	1910	8	W-X002-1,R-100X-0
346+00	CONSTRUCT PIPE CULVERT							36						3.66	93		FPC-19&20
348+00	CONSTRUCT PIPE CULVERT							38						3.66	93		FPC-19&20
351+44	CONSTRUCT PIPE CULVERT							38						3.66	93		FPC-19&20
356+58	CONSTRUCT PIPE CULVERT				36												FPC-19
361+00	CONSTRUCT R.C. BOX CULVERT SPAN = 6.0'	5	3	32										16.83	1999	9	W-X002-1,R-100X-0
368+00	CONSTRUCT PIPE CULVERT					38								1.81	68		FPC-19&20
370+80	CONSTRUCT PIPE CULVERT				36												FPC-19
373+80	CONSTRUCT R.C.BOX CULVERT SPAN= 6.0'	5	5	32										22.16	2303	9	W-X002-1,R-100X-0
376+00	INSTALL ARCH PIPE CULVERT LT.SIDE DRAIN											20					FPC-11(REV)
382+92	CONSTRUCT PIPE CULVERT										36			5.25	117		FPC-19&20
385+86	CONSTRUCT PIPE CULVERT				36												FPC-19
388+47	CONSTRUCT R.C.BOX CULVERT SPAN = 5.0'	4	5	32										20.02	1904	8	W-X002-1,R-100X-0
390+50	CONSTRUCT PIPE CULVERT									36				4.42	105		FPC-19&20
393+36	CONSTRUCT PIPE CULVERT					36								1.81	68		FPC-19&20
396+09	CONSTRUCT PIPE CULVERT							34						3.66	93		FPC-19&20
401+00	CONSTRUCT PIPE CULVERT						34							2.95	80		FPC-19&20
405+00	INSTALL ARCH PIPE CULVERT LT.SIDE DRAIN											20					FPC-11(REV)
405+00	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
410+87	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN												20				FPC-11(REV)
417+00	INSTALL ARCH PIPE CULVERT LT.SIDE DRAIN											24					FPC-11(REV)
417+00	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											24					FPC-11(REV)
423+25	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
425+30	INSTALL ARCH PIPE CULVERT LT.SIDE DRAIN											24					FPC-11(REV)
427+00	CONSTRUCT R.C.BOX CULVERT SPAN = 5.0'	4	4	32										17.22	1749	7	W-X002-1,R-100X-0
430+13	INSTALL ARCH PIPE CULVERT LT.SIDE DRAIN											20					FPC-11(REV)
431+74	CONSTRUCT PIPE CULVERT							36						3.66	93		FPC-19&20
434+46	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
437+00	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
438+90	CONST. R.C.BOX CULVERT 30°LFS SPAN= 7.13'	5	6	37										32.96	3157	11	W-X30,W-X302-1,R-130X-0
439+94	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
443+10	CONSTRUCT PIPE CULVERT				38												FPC-19
444+59	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
444+85	CONST.R.C.BOX CULVT. 30° RFS.SPAN= 5.77'	4	5	37										24.17	2312	9	W-X30,W-X302-1,R-130X-0
451+35	CONSTRUCT PIPE CULVERT									38				4.42	105		FPC-19&20
454+29	CONSTRUCT PIPE CULVERT									34				4.42	105		FPC-19&20
457+70	CONSTRUCT PIPE CULVERT					38								1.81	68		FPC-19&20
463+00	CONSTRUCT PIPE CULVERT				48												FPC-19
465+80	CONSTRUCT PIPE CULVERT									38				4.42	105		FPC-19&20
468+60	CONSTRUCT R.C.BOX CULVERT SPAN = 5.0'	4	5	40										23.17	2328	9	W-X002-1,R-100X-0
473+64	CONSTRUCT PIPE CULVERT				38												FPC-19
475+75	CONSTRUCT PIPE CULVERT					34								1.81	68		FPC-19&20
477+00	INSTALL ARCH PIPE CULVERT RT.SIDE DRAIN											20					FPC-11(REV)
482+00	CONSTRUCT PIPE CULVERT					38								1.81	68		FPC-19&20
484+00	CONSTRUCT PIPE CULVERT						36							2.95	80		FPC-19&20
489+09	CONSTRUCT PIPE CULVERT										38			5.25	117		FPC-19&20
500+73	CONSTRUCT R.C.BOX CULVERT SPAN = 6.0'	5	3	32										16.83	1999	9	W-X002-1,R-100X-0
505+90	CONSTRUCT R.C.BOX CULVERT SPAN = 6.0'	5	3	32										16.83	1999	9	W-X002-1,R-100X-0
509+83	CONSTRUCT PIPE CULVERT					40								1.81	68		FPC-19&20
TOTALS:					808	416	338	272	160	146	176	312	20	564.55	51987	182	

NOTE: ALL R.C. PIPE CULVERTS TO BE CONSTRUCTION WITH CLASS B BEDDING.
HEADWALLS NOT APPLICABLE TO 24" PIPES
CONSTRUCT HEADWALLS ON INLET END OF PIPES ≥30" IN DIAMETER

REVISED 2-26-10 KB
PLANS 1-7-10 KB
PROJECT ORIGIN 6
STATE ARK.
FED. AID PROJ. NO. S
JOB NO. 9496
SHEET 6
TOTAL SHEETS 112

4 QUANTITY SHEET

205

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5-27-70	7/1 & 5-27-70			6	ARK.	S			
8-21-70	NONE								
8-26-70	6/70 8-27-70			JOB NO.		9496		8	119
				S(1) 16877		Quantities		5367	

SCHEDULE OF BRIDGE QUANTITIES

BRIDGE NUMBER	CODE NUMBER	NAME PLATE TITLE	UNIT OF BRIDGE / ITEM	ITEM NO.	801	SP & 802	SP 802-9	SP & 803	812	SP & 817-A	SP & 817-A	▷
					*UNCLASSIFIED EXCAVATION FOR STRUCTURES	CLASS S CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL	BRIDGE NAME PLATE (TYPE C)	FILTER BLANKET	DUMPED RIPRAP	
				UNIT	CU. YD.	CU. YD.	GAL.	LB.	PLATE	CU. YD.	CU. YD.	
5367	X020	WATTS CREEK	END BENTS NO. 1 & 4		60	34.44		4,810		87	260	
			INTERIOR BENTS NO. 2 & 3		33	27.36		4,790				
			2 35'-0" R.C. SLAB END SPANS			120.76	5.35	27,530	1			
			1 35'-0" R.C. SLAB INT. SPAN			60.14	2.65	13,720				
TOTALS BR. NO. 5367 & JOB 9496					93	242.70	8.00	50,850	1	87	260	

* Includes approx. 6.30 Cu. Yds. Rock Excavation.

▷ Revision: Removed Pay Item No. 1006 - 8-21-70 RDS. LTIL

SCHEDULE OF BRIDGE QUANTITIES
IMO - NORTH
SEARCY COUNTY

ROUTE 27 SEC. 16

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: RHS DATE: 5-1-70
TRACED BY: LPH DATE: 5-5-70
CHECKED BY: JWV DATE: 5-5-70
SCALE:

Veral Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 5367 DRAWING NO. 16877

DATE REVISED	DATE PLANS COMPLETED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8-26-70	6-8-70	6	ARK.	S		
9-24-70	8-26-70					
4-21-72	3-24-72	JOB NO.		9496	9	10

SUMM OF QUANTITIES & REVISION

4

SOIL LOG

STATION	DEPTH	LIQUID LIMIT	P.I.	AASHO CLASSIFI-CATION	REMARKS
171+00	0-2'	26	7	A-4(3)	ROCK AT 2'
177+00	0-4'	33	13	A-6(8)	SHALE
182+00	0-12'	24	5	A-4(0)	ROCK AT 12'
189+00	0-4'	25	8	A-4(2)	
189+00	4-14'	43	18	A-7-6(13)	SHALE
194+30	0-14'	23	7	A-4(2)	
201+00	0-7'		N.P.	A-2-4(0)	SOFT SAND STONE
201+00	7-9'		N.P.	A-2-4(0)	
208+00	0-4'		N.P.	A-2-4(0)	
212+00	0-4'	28	8	A-4(2)	
217+00	0-4'		N.P.	A-2-4(0)	
225+50	0-4'	29	10	A-4(2)	
225+50	4'-7'	46	20	A-7-6(19)	ROCK AT 7'
233+00	BANK SAMP.		N.P.	A-2-4(0)	SURFACE ROCK
241+50	BANK SAMP.				SURFACE ROCK
248+50	0-19'	44	19	A-7-6(14)	
255+00	0-9'		N.P.	A-2-4(0)	
259+00	0-4'		N.P.	A-2-4(0)	
263+50	0-9'	39	14	A-6(8)	
266+50	0-9'	43	16	A-7-6(15)	
269+00	0-4'	26	9	A-4(1)	ROCK AT 4'
278+00	0-8'	39	16	A-6(10)	ROCK AT 8'
287+00	BANK SAMP.	36	20	A-6(12)	
292+50	0-2'	30	12	A-6(5)	ROCK AT 2'
302+00	0-3'		N.P.	A-2-4(0)	ROCK AT 3'
308+00	BANK SAMP.	49	21	A-7-6(21)	SURFACE ROCK
318+00	0-4'	45	22	A-7-6(17)	
325+50	0-6'	48	22	A-7-6(17)	ROCK AT 6'
331+50	0-9'	19	5	A-4(0)	
341+00	0-4'	17	2	A-2-4(0)	
351+00	0-2'	20	3	A-4(0)	ROCK AT 2'
360+00	0-4'	22	9	A-4(2)	
363+00	BANK SAMP.	27	11	A-6(3)	SURFACE ROCK
375+00	0-4'	34	18	A-6(6)	
387+00	0-4'	48	23	A-7-6(17)	
397+00	0-4'	36	16	A-6(6)	
407+00	0-4'	29	11	A-6(4)	
420+00	0-4'	28	12	A-6(4)	
430+00	0-4'	26	7	A-4(2)	
434+00	0-7'	39	22	A-6(11)	ROCK AT 7'
442+00	0-4'	24	7	A-2-4(0)	ROCK AT 4'
449+00	0-4'	38	15	A-6(10)	
456+00	0-4'	41	18	A-7-6(12)	
459+00	0-4'	43	25	A-7-6(15)	
470+00	BANK SAMP.	43	17	A-7-6(11)	SURFACE ROCK
475+00	0-4'	43	19	A-7-6(16)	
477+50	0-3'	23	8	A-4(0)	ROCK AT 3'
481+00	0-9'	41	24	A-7-6(17)	
483+00	0-9'	33	15	A-6(6)	
488+00	0-9'	46	20	A-7-6(18)	
493+00	0-5'	29	10	A-4(4)	ROCK AT 5'
496+00	0-7'	42	19	A-7-6(14)	ROCK AT 7'
505+00	0-3'	24	7	A-4(2)	

NOTE: SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION OF THE SAMPLE, AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMITS SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR ANY VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATION.

REVISIONS

DATE	REVISION	SHEET NO.
8-26-70	REVISED TYPICAL FROM 32' SUBGRADE TO 26' SUBGRADE.	ALL
9-24-70	REVISED STD. DWG. NO. S.T.-4 & 6	2
4-21-72	ADDED FINAL LENGTH	1

SUMMARY OF QUANTITIES

	ITEM NO.	I T E M		QUANTITY	UNIT
	SP&100	FURNISHING FIELD LABORATORY		1	BLDG.
	101	CLEARING		32.13	ACRE
	101	GRUBBING		32.13	ACRE
	SP&103	UNCLASSIFIED EXCAVATION		119066	CU.YD.
	105	EMBANKMENT MATERIAL		7700	CU.YD.
	SP&107	SPECIAL COMPACTION OF EARTHWORK		119042	CU.YD.
	SP&203	CRUSHED STONE BASE COURSE(CLASS SB-2)		33317	TON
	SP&501	PRIME COAT		34767	GAL.
	503	CLASS 10 MINERAL AGGREGATE IN BITUMINOUS SURFACE TREATMENT		2299	CU.YD.
	503	ASPHALT IN BITUMINOUS SURFACE TREATMENT		55176	GAL.
	801	UNCLASSIFIED EXCAVATION FOR STRUCTURES		182	CU.YD.
	SP&802	CLASS S CONCRETE		564.55	CU.YD.
	SP&803	REINFORCING STEEL		51987	LB.
*	909	24" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	808	LIN.FT.
*	SP&909	24" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-14 GAUGE)	ALTERNATE NO.2Δ	808	LIN.FT.
*	SP&909	24" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-14 GAUGE)	ALTERNATE NO.3Δ	808	LIN.FT.
*	909	30" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	416	LIN.FT.
*	SP&909	30" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-14 GAUGE)	ALTERNATE NO.2Δ	416	LIN.FT.
*	SP&909	30" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-14 GAUGE)	ALTERNATE NO.3Δ	416	LIN.FT.
*	909	36" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	338	LIN.FT.
*	SP&909	36" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-12 GAUGE)	ALTERNATE NO.2Δ	338	LIN.FT.
*	SP&909	36" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-12 GAUGE)	ALTERNATE NO.3Δ	338	LIN.FT.
*	909	42" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	272	LIN.FT.
*	SP&909	42" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-12GAUGE)	ALTERNATE NO.2Δ	272	LIN.FT.
*	SP&909	42" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-12 GAUGE)	ALTERNATE NO.3Δ	272	LIN.FT.
*	909	42" REINFORCED CONCRETE PIPE CULVERTS(CLASS V)	ALTERNATE NO.1Δ	160	LIN.FT.
*	SP&909	42" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-10 GAUGE)	ALTERNATE NO.2Δ	160	LIN.FT.
*	909	48" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	146	LIN.FT.
*	SP&909	48" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-12 GAUGE)	ALTERNATE NO.2Δ	146	LIN.FT.
*	SP&909	48" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-12 GAUGE)	ALTERNATE NO.3Δ	146	LIN.FT.
*	909	54" REINFORCED CONCRETE PIPE CULVERTS(CLASS III)	ALTERNATE NO.1Δ	176	LIN.FT.
*	SP&909	54" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(STEEL-12 GAUGE)	ALTERNATE NO.2Δ	176	LIN.FT.
*	SP&909	54" BITUMINOUS COATED CORRUGATED METAL PIPE CULVERTS(ALUMINUM ALLOY-12 GAUGE)	ALTERNATE NO.3Δ	176	LIN.FT.
*	SP&909	REINFORCED CONCRETE ARCH PIPE CULVERTS(1.5 SQ.FT.W.W.)(CLASS III)	ALTERNATE NO.1*	312	LIN.FT.
*	SP&909	CORRUGATED METAL ARCH PIPE CULVERTS(1.5 SQ.FT.W.W.)(STEEL-16 GAUGE)	ALTERNATE NO.2*	312	LIN.FT.
*	SP&909	CORRUGATED METAL ARCH PIPE CULVERTS(1.5 SQ.FT.W.W.)(ALUMINUM ALLOY-16 GAUGE)	ALTERNATE NO.3*	312	LIN.FT.
*	SP&909	REINFORCED CONCRETE ARCH PIPE CULVERTS(2.8 SQ.FT.W.W.)(CLASS III)	ALTERNATE NO.1*	20	LIN.FT.
*	SP&909	CORRUGATED METAL ARCH PIPE CULVERTS(2.8 SQ.FT.W.W.)(STEEL-14 GAUGE)	ALTERNATE NO.2*	20	LIN.FT.
*	SP&909	CORRUGATED METAL ARCH PIPE CULVERTS(2.8 SQ.FT.W.W.)(ALUMINUM ALLOY-14 GAUGE)	ALTERNATE NO.3*	20	LIN.FT.
	SP&912	PIPE UNDERDRAINS(6")		500	LIN.FT.
	SP&923	RIGHT-OF-WAY MARKERS(TYPE A)		349	EACH
	SP-1008-2	MAINTENANCE OF TRAFFIC		1	COMP.ITEM

STRUCTURES OVER 20'-0" SPAN

801	UNCLASSIFIED EXCAVATION FOR STRUCTURES	93	CU.YD.
SP&802	CLASS S CONCRETE	242.70	CU.YD.
SP-802-9	BOILED LINSEED OIL	8.00	GALLON
SP&803	REINFORCING STEEL	50850	LB.
812	BRIDGE NAME PLATES(TYPE C)	1	PLATE
SP&817-A	FILTER BLANKET	87	CU.YDS.
SP&817-A	DUMPED RIPRAP	260	CU.YDS.

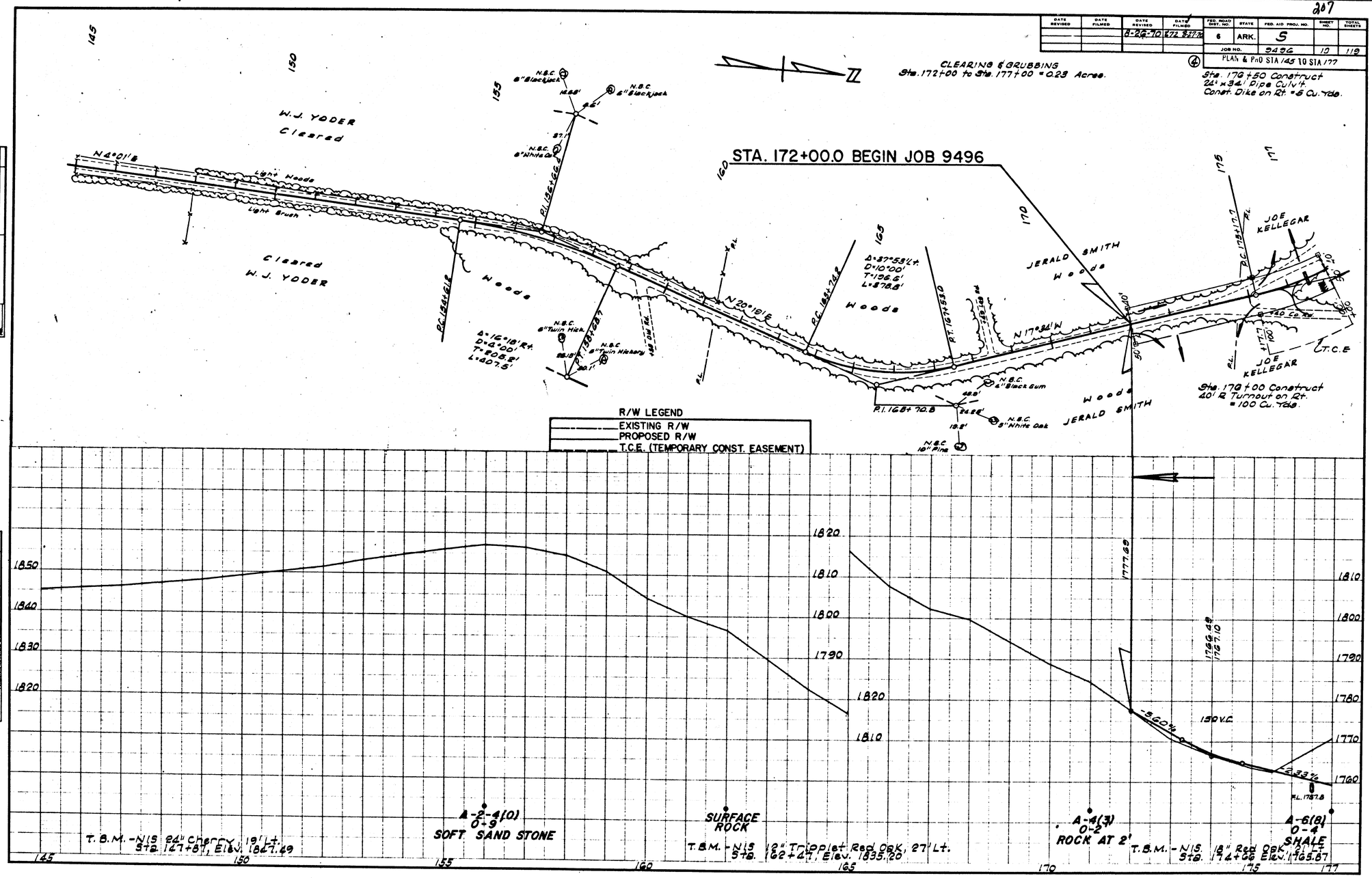
NOTE: * ALTERNATE BID ITEMS
Δ CROSS DRAINS
* SIDE DRAINS

GRAHAM BLUE PRINT CO. 1951M 2-69

207

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	672 8-27-70	6	ARK.	S		
				JOB NO.		9496	10	119

④ PLAN & PRO STA 145 TO STA 177



PLAN — NOTE BOOK NO. — DRAWN — TRACED — CHECKED — AS BUILT CHECKED

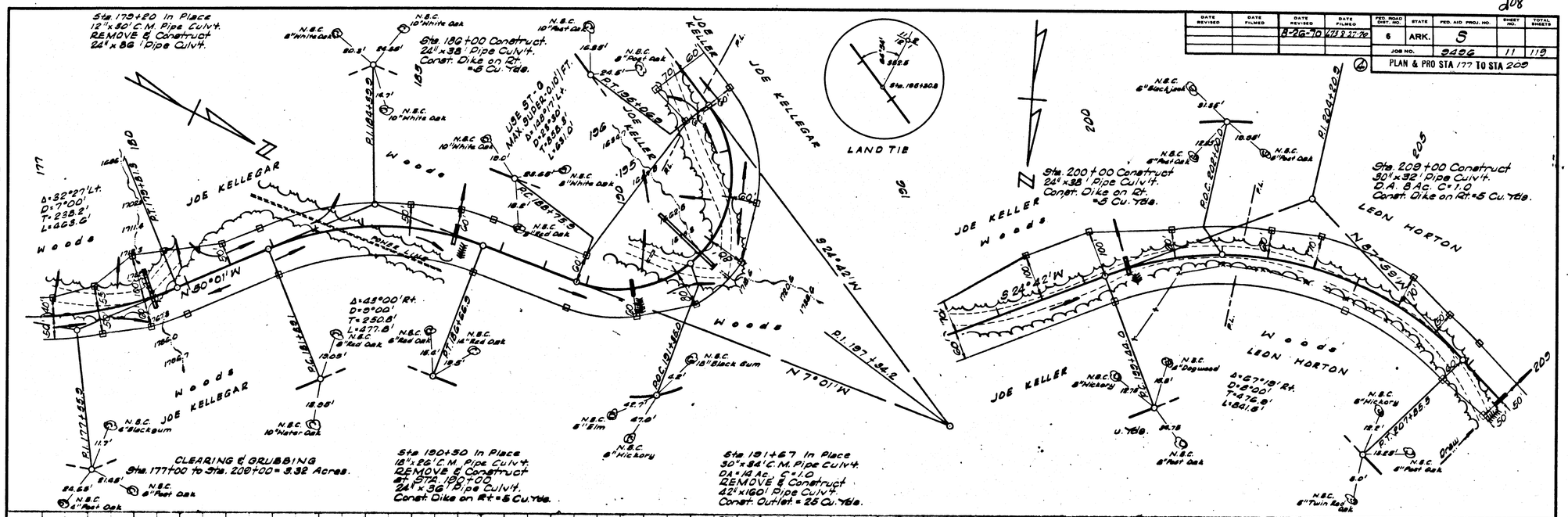
PROFILE — NOTE BOOK NO. — WRITTEN — NOTES — CALCS. CHECKED — LEVELS — STRUCTURE NOTATIONS CHECKED — DATE — BY

SHEETS MADE 1984 MICROVEL

208

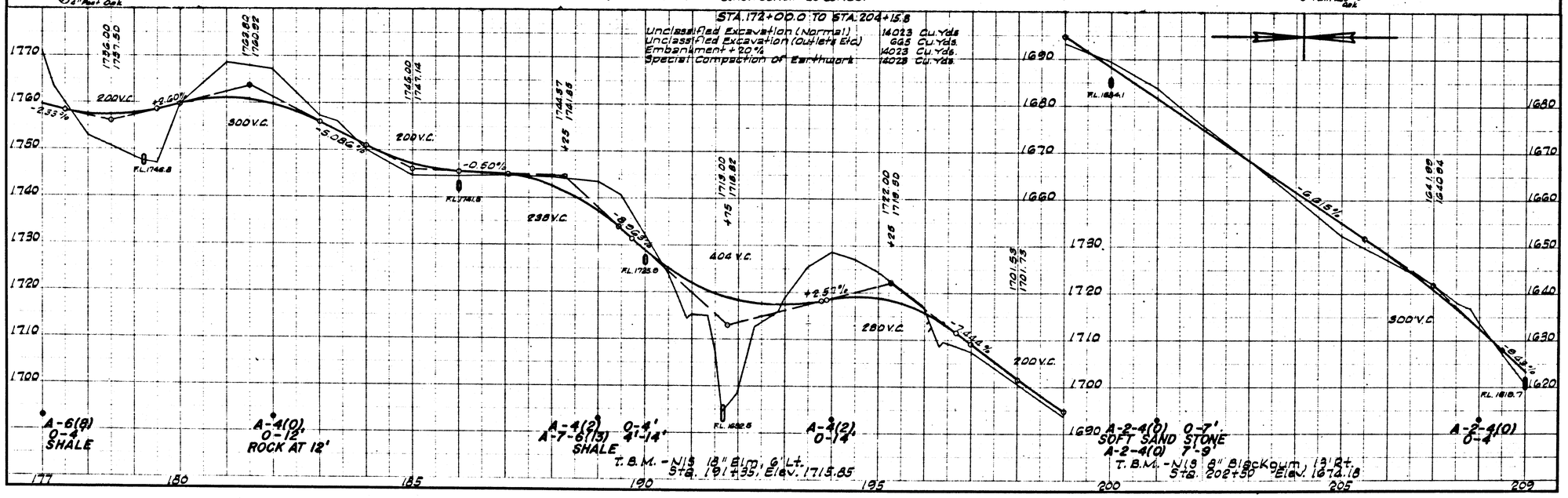
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	473 8-27-70	6	ARK.	S		
				JOB NO.		9426	11	119

④ PLAN & PRO STA 177 TO STA 209



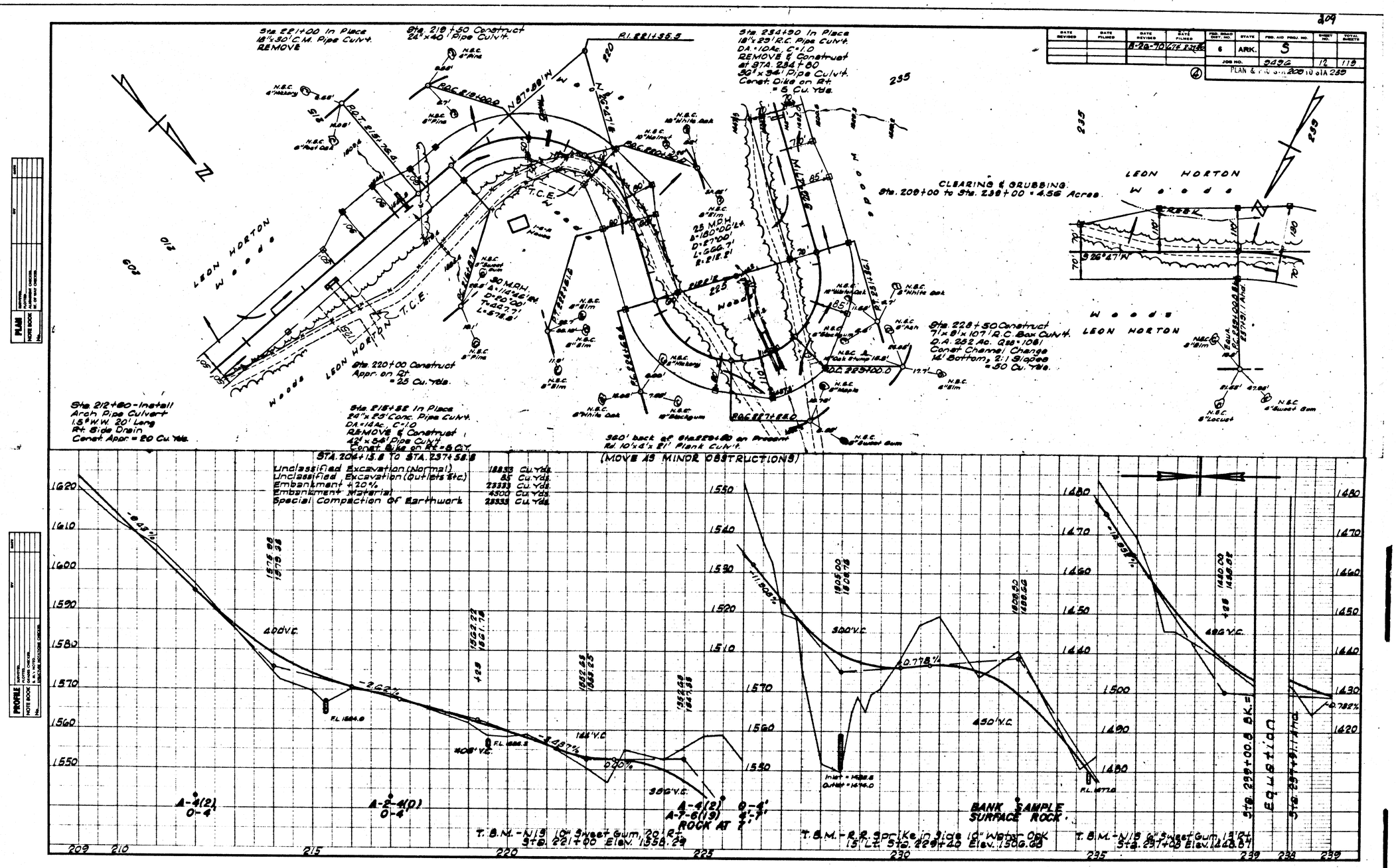
STA. 172+00.0 TO STA. 204+15.8

Unclassified Excavation (Normal)	14023 Cu. Yds
Unclassified Excavation (Outlets Etc)	665 Cu. Yds.
Embankment + 20%	14023 Cu. Yds.
Special Compaction of Earthwork	14023 Cu. Yds.



PLAN — SURVEYED, NOTES, CHECKED, NOTE BOOK, M. OF WAY CHECKED, No.

PROFILE — SURVEYED, NOTES, CHECKED, NOTE BOOK, R.W.Y. NOTES, STRUCTURE NOTES CHECKED, No.

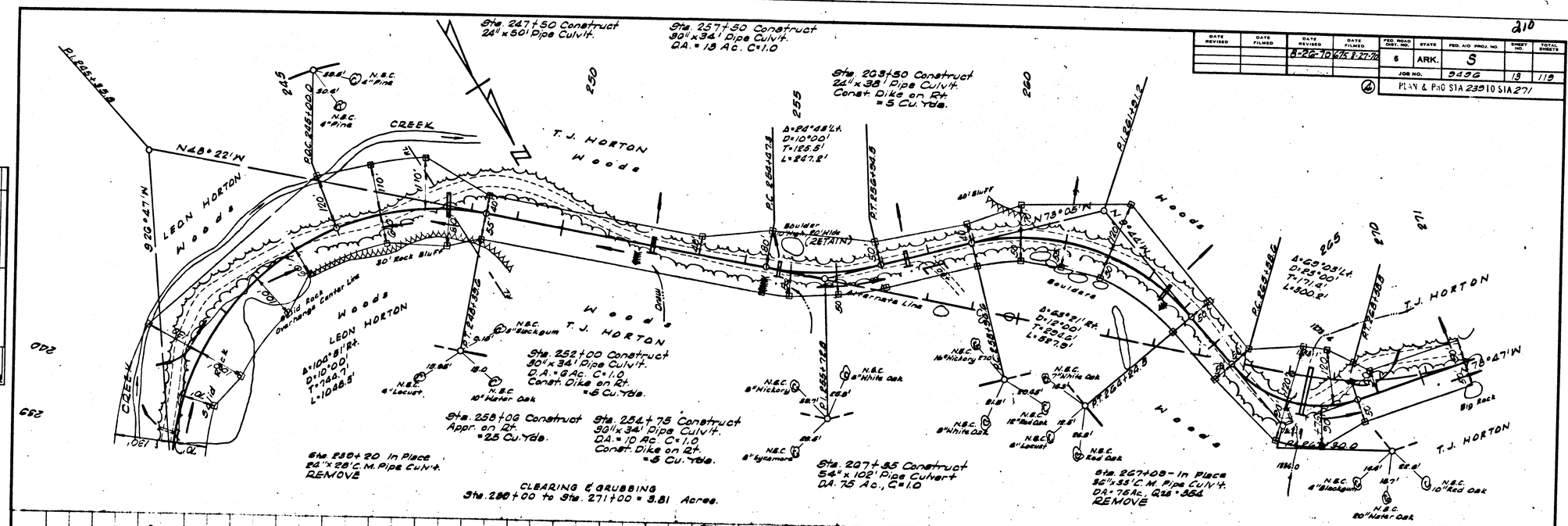


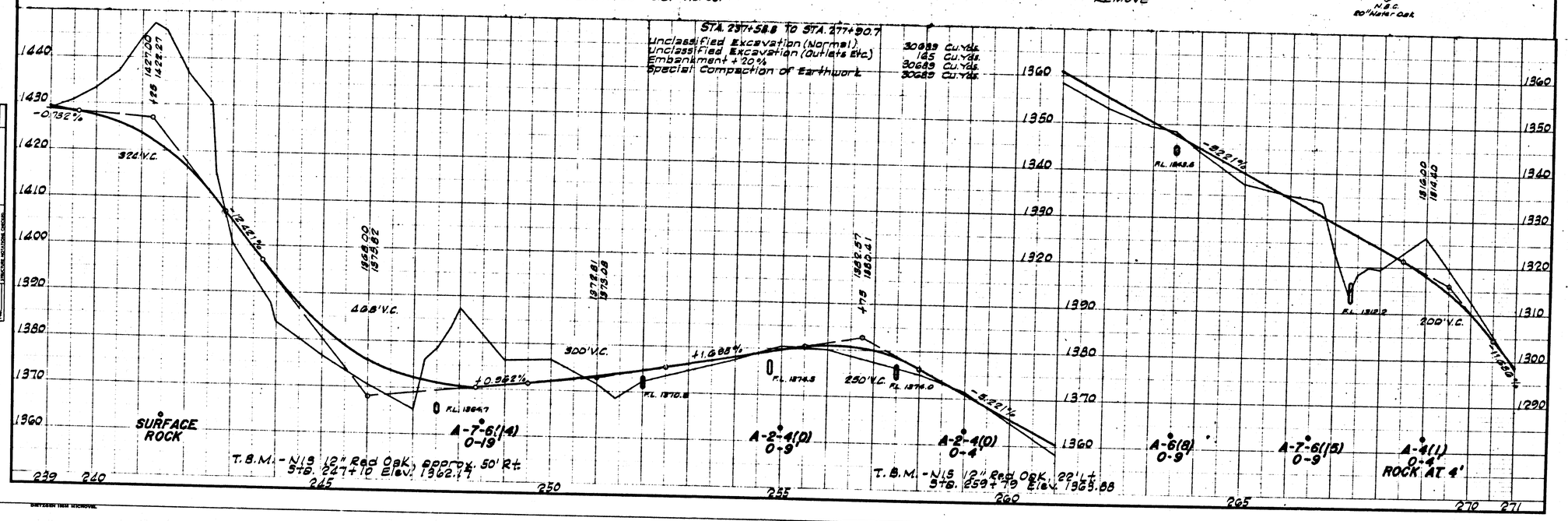
Sta. 221+00 In Place
18"x30' C.M. Pipe Culv't.
REMOVE
Sta. 219+50 Construct
24"x40' Pipe Culv't.
Sta. 234+90 In Place
18"x29' R.C. Pipe Culv't.
DA.=10Ac. C=1.0
REMOVE & Construct
at STA. 234+80
36"x34' Pipe Culv't.
Const. Dike on Rt.
=5 Cu. Yds.
CLEARING & GRUBBING
Sta. 209+00 to Sta. 239+00 = 4.56 Acres.
LEON HORTON
Woods
Sta. 228+50 Construct
7'x8'x107' R.C. Box Culv't.
D.A. 252 Ac. Q25=1061
Const. Channel Change
14' Bottom, 2:1 Slopes
=50 Cu. Yds.
Sta. 220+00 Construct
Appr. on Rt.
=25 Cu. Yds.
Sta. 212+80 - Install
Arch Pipe Culvert
1.5' W.W. 20' Long
Rt. Side Drain
Const. Appr. = 20 Cu. Yds.
Sta. 215+32 In Place
24"x25' Conc. Pipe Culv't.
DA.=14Ac. C=1.0
REMOVE & Construct
42"x54' Pipe Culv't.
Const. Dike on Rt.=6 C.Y.
360' back of Sta. 229+80 on Present
Rd. 10'x4'x21' Plank Culv't.
(MOVE AS MINOR OBSTRUCTIONS)
STA. 204+15.8 TO STA. 237+58.8
Unclassified Excavation (Normal) 18833 Cu. Yds.
Unclassified Excavation (Outlets Etc.) 85 Cu. Yds.
Embankment +20% 23333 Cu. Yds.
Embankment Material 4500 Cu. Yds.
Special Compaction of Earthwork 23333 Cu. Yds.
400' V.C.
300' V.C.
450' V.C.
496' V.C.
BANK SAMPLE
SURFACE ROCK
A-4(2)
0-4'
A-2-4(0)
0-4'
A-4(2)
A-7-6(19)
ROCK AT 7'
T.B.M. - N15 10" Sweet Gum, 20' Rt.
Sta. 221+00 Elev. 1558.29
T.B.M. - R.R. Spike in Side 10" Water Oak
15' Lt. Sta. 229+40 Elev. 1506.68
T.B.M. - N15 6" Sweet Gum, 13' Rt.
Sta. 237+08 Elev. 1448.87
Sta. 239+00.8 BK.=
Equation
Sta. 237+91.1 Ahd.

210

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	6/15 8-27-70	6	ARK.	S		
				JOB NO.	3436		19	119

PLAN & PRO STA 239+10 STA 271





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	6/16-27-70	6	ARK.	S		
				JOB NO.	9306		14	119

PLAN & PRO STA 271 TO STA 303

Sta. 270+11 Construct
30" x 48' Pipe Culv't.
DA = 11 Ac. C = 1.0

Sta. 270+78 Construct
Appr. on Lt.
= 125 Cu. Yds.

Sta. 281+25 In Place
30" x 32' C.M. Pipe Culv't.
DA = 16 Ac., C = 1.0
REMOVE & Construct
at Sta. 281+50
30" x 70' Pipe Culv't.
30° Lt. Fwd Skew.
Const. Outlet = 28 Cu. Yds.

Sta. 284+03 In Place
18" x 22' C.M. Pipe Culv't.
DA = 16 Ac., C = 1.0
REMOVE & Construct
42" x 36' Pipe Culv't.
Const. Dike on Rt.
= 5 Cu. Yds.

Sta. 288+12 In Place
24" x 30' C.M. Pipe Culv't.
REMOVE & Construct
24" x 54' Pipe Culv't.
Const. Dike on Rt.
= 5 Cu. Yds.

Sta. 288+28 Construct
24" x 34' Pipe Culv't.
Const. Dike on Rt.
= 5 Cu. Yds.

Sta. 287+00 Construct
24" x 42' Pipe Culv't.
Const. Dike on Rt.
= 5 Cu. Yds.

Sta. 281+68 Construct
24" x 36' Pipe Culv't.
Const. Dike on Rt.
= 5 Cu. Yds.

Sta. 300+38 Construct
30" x 40' Pipe Culv't.
DA = 7 Ac. C = 1.0
Const. Dike on Rt.
= 5 Cu. Yds.

CLEARING & GRUBBING
Sta. 271+00 to Sta. 303+00 = 2.86 Acres

T.B.M. - N12 14" Post Oak, approx. 37' Lt.
Sta. 271+40, Elev. 1233.63

T.B.M. - N13 18" Post Oak, 42' Lt.
Sta. 285+96, Elev. 1173.74

A-6(10)
0-8
ROCK AT 8'

BANK SAMPLE
A-6(12)

A-6(5)
0-2'
ROCK AT 2'

A-2-4(0)
0-3'
ROCK AT 3'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	4-27-70	6	ARK.	5		
				JOB NO.		9422	20	119

PLAN: FROM STA 465 TO STA 495

Sta. 465+80 In Place 30"x24' C.M. Pipe Culv't. DA.=25 Ac., C=1.0 REMOVE & Construct 48"x38' Pipe Culv't. Const. Outlet = 10 Cu. Yds.

Sta. 468+45 In Place 30"x20' R.C. Pipe Culv't. DA.=54 Ac., C=1.0 REMOVE & Construct at Sta. 468+00 4'x5'x40' R.C. Box Culv't. Const. Channel Change 8' Bottom, 2:1 Slopes = 40 Cu. Yds.

Sta. 475+75 Construct 30"x34' Pipe Culv't. DA.=7 Ac., C=1.0 Const. Outlet = 10 Cu. Yds.

Sta. 477+50 Construct Appr. on Lt. = 50 Cu. Yds.

Sta. 481+00 Construct Appr. on Lt. = 40 Cu. Yds.

Sta. 482+00 Construct 30"x38' Pipe Culv't. DA.=9 Ac., C=1.0 Const. Outlet = 25 Cu. Yds.

Sta. 487+37 Construct Appr. on Lt. = 25 Cu. Yds.

Sta. 484+00 Construct 30"x36' Pipe Culv't. DA.=11 Ac., C=1.0 Const. Dike on Lt. = 5 Cu. Yds. Const. Outlet = 15 Cu. Yds.

Sta. 468+00 Construct Appr. on Lt. = 50 Cu. Yds.

Sta. 469+00 - Construct Approach on Lt. = 15 Cu. Yds.

Sta. 478+64 Construct 24"x38' Pipe Culv't.

Sta. 477+00 Install Arch Pipe Culv't. 1.5 @ W.W. 20' Long Rt. Side Drain Const. Appr. = 25 Cu. Yds.

Sta. 481+00 Construct Appr. on Rt. = 75 Cu. Yds.

Sta. 489+40 Construct Appr. on Lt. = 125 Cu. Yds.

Sta. 492+40 Construct Appr. on Lt. = 300 Cu. Yds.

Sta. 488+03 In Place 18"x26' C.M. Pipe Culv't. DA.=41 Ac., C=1.0 REMOVE & Construct 54"x38' Pipe Culv't.

CLEARING & GRUBBING Sta. 465+00 to Sta. 495+00 = 2.35 Acres

RODUS DREWRY — Cleared — Woods — BEN HINCHEY ESTATE — T.C.E. — BEAR CREEK — JESS BOHANNON — McKINLEY COOPER — Low Water dike — Stock Pond — Barn — House — Shed — Swimming Pool

Δ=24°04' Rt. D=3°00' T=407.1' L=802.2'

Δ=16°18' Lt. D=4°00' T=204.1' L=406.6'

Δ=24°21' Rt. D=4°00' T=303.1' L=608.8'

N 14°42' E — N 31° W — N 22° 00' E

LAND TIE — NW Cor. Sec. 25 — Sta. 482+02

N.S.C. 18" Hickory — N.S.C. 18" Sweet Gum — N.S.C. 8" Cedar — N.S.C. 8" Hickory — N.S.C. 18" Twin Walnut — N.S.C. 6" Sweet Gum — N.S.C. Nail Box Post

PROFILE — NOTE BOOK — No.

BANK SAMPLE A-7-6(11) SURFACE ROCK

A-7-6(16) 0+4 — A-4(0) 0-3' ROCK AT 3' — A-7-6(17) 0-9' — A-6(6) 0-9' — A-7-6(19) 0+9' — A-4(4) 0+5' ROCK AT 5'

T.B.M. - N15 10" Cottonwood 10' Lt. Sta. 479+18 Elev. 867.84

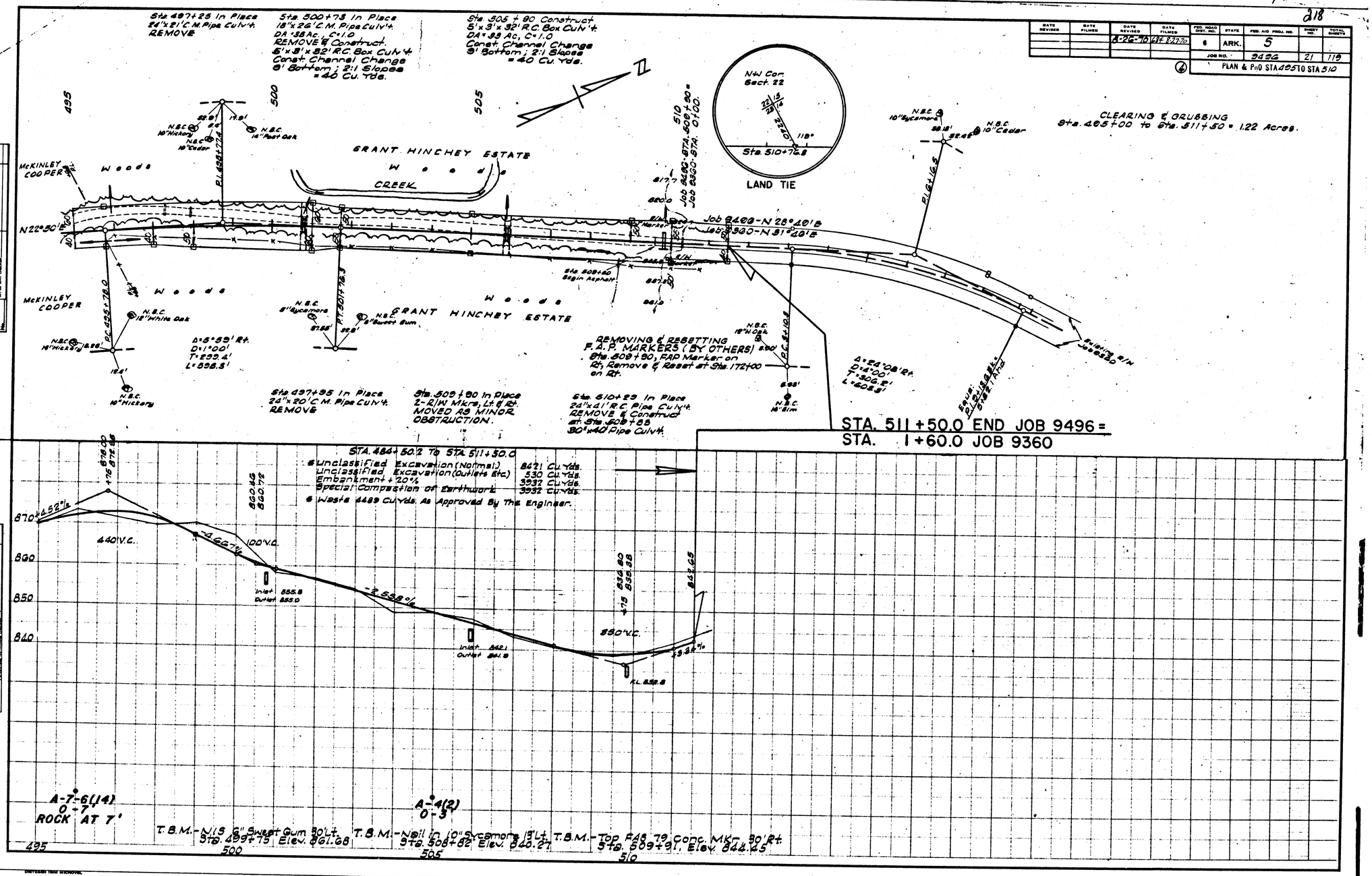
T.B.M. - N15 14" Hickory 30' Lt. Sta. 488+20 Elev. 850.16

Vertical Scale 1" = 10'

218

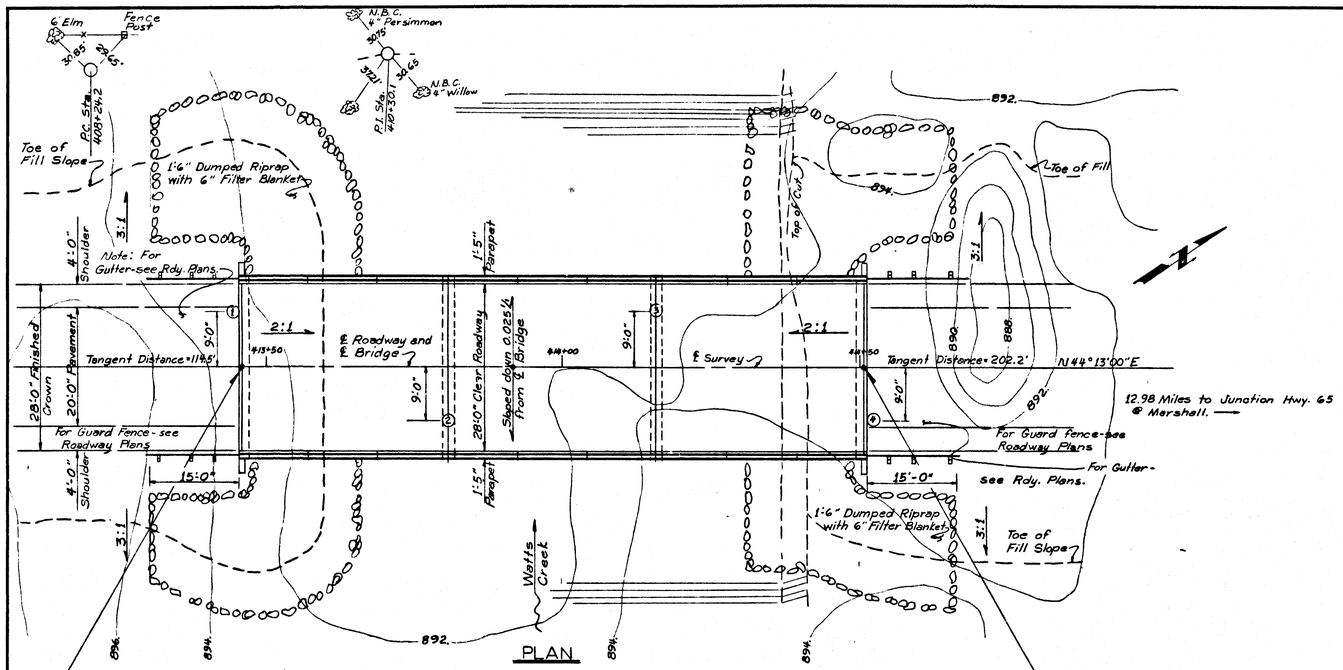
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	8-27-70	6	ARK.	S		
				JOB NO.		9496	21	119

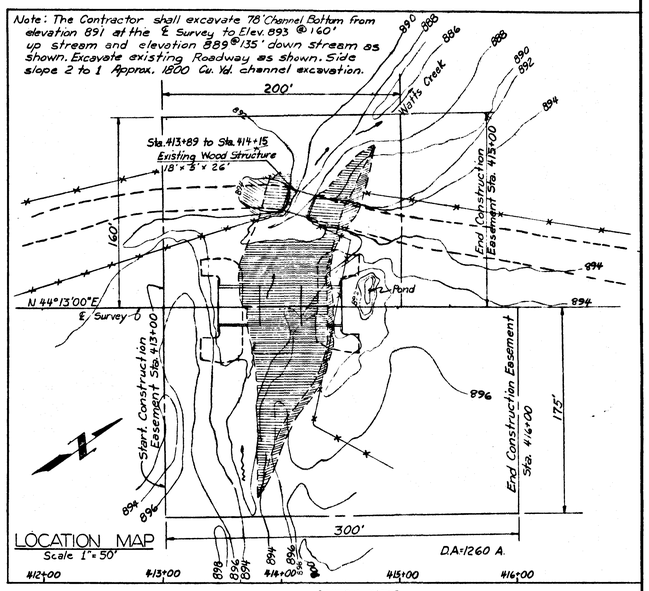
(4) PLAN & PrO STA 495 TO STA 510

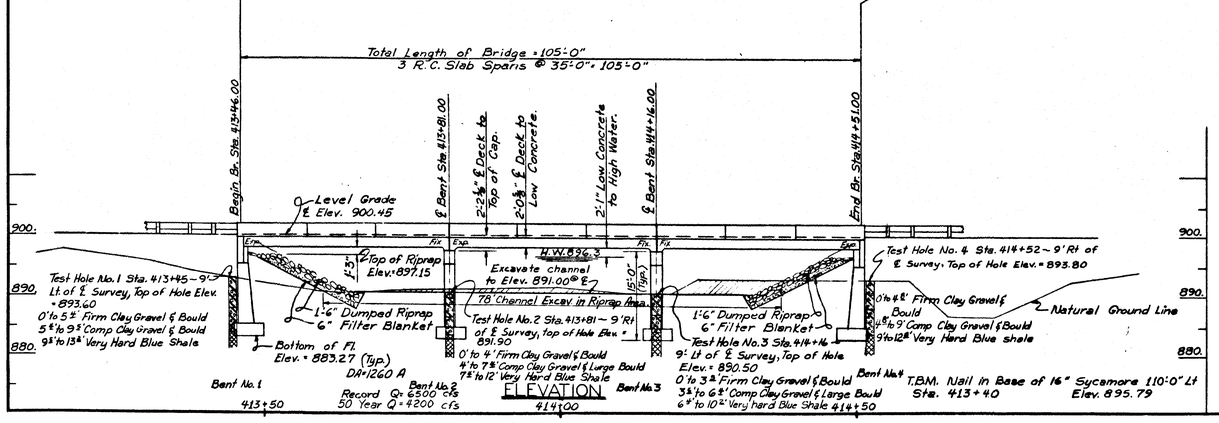


219

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8-21-70	NONE			6	ARK.	S			
8-26-70	GRS 8-27-70			JOB NO.	9496			22	119
				S(1) 16878 LAYOUT 5367					







Foundation Pressure 11.63 k.s.f.

GENERAL NOTES

ALL CONCRETE TO BE CLASS S POURED IN THE DRY. EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ROCK EXCAVATIONS SHALL BE MADE A MINIMUM OF ONE FOOT INTO MATERIAL DESIGNATED AS VERY HARD BLUE SHALE TO NEAT LINES OF CONCRETE FOOTINGS. CARE SHALL BE EXERCISED TO AVOID SHATTERING OF ROCK FACES BY EXCESSIVE BLASTING. CONCRETE IN FOOTING SHALL BE POURED DIRECTLY AGAINST EXCAVATED SURFACES OF ROCK.

IN GENERAL, ALL CONSTRUCTION JOINTS IN BENTS OR PIERS SHALL BE HORIZONTAL AND SHALL BE PROVIDED WITH KEYS NOT LESS THAN 1 1/2" HIGH COVERING THE MIDDLE THIRD OF BOTH DIMENSIONS.

▷ THE CONTRACTOR SHALL USE THE EXISTING WOOD STRUCTURE FOR A DETOUR BRIDGE. AFTER CONSTRUCTION OF NEW BRIDGE THE STATE SHALL REMOVE THE EXISTING BRIDGE NO. M-663 BEGINNING AT STATION 413+89 AND ENDING AT STATION 414+15 ACCORDING TO SECTION 1006 OF THE SPECIFICATIONS. THE EXISTING BRIDGE IS 26' LONG, 18' CLEAR ROADWAY WOOD DECK, ROCK ABUTMENTS, AND 1 CENTER BENT.

FOR DETAILS OF END BENTS SEE DRAWING NO. 16879.
FOR DETAILS OF INTERMEDIATE BENTS SEE DRAWING NO. 16879.
FOR DETAILS OF 35' R.C. SLAB SPANS SEE DRAWING NO. 14940 AND 14941.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, THE 1966 SUPPLEMENTAL SPECIFICATIONS, AND DESIGNATED SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1969
LIVE LOADING: H20
UNIT STRESSES: CLASS S CONCRETE (N=10) 1,200 PSI
REINFORCING STEEL 20,000 PSI

▷ Existing bridge note revised 8-21-70 FHS. +TL

LAYOUT OF BRIDGE OVER WATTS CREEK IMO - NORTH SEARCY COUNTY

ROUTE 27 SEC. 16

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

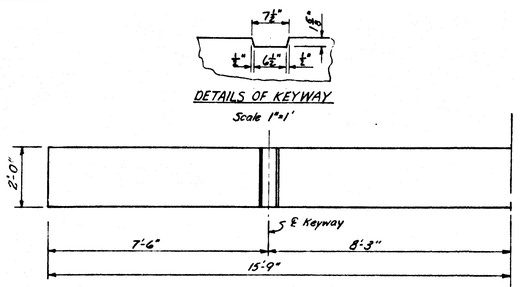
DRAWN BY: D.P.H. DATE: 3-24-70
TRACED BY: D.P.H. DATE: 3-24-70
CHECKED BY: FHS DATE: 8-28-70
SCALE: 1" = 10'-0"

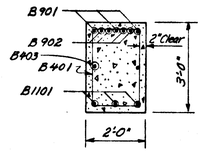
Vernal Pinkerton
BRIDGE ENGINEER

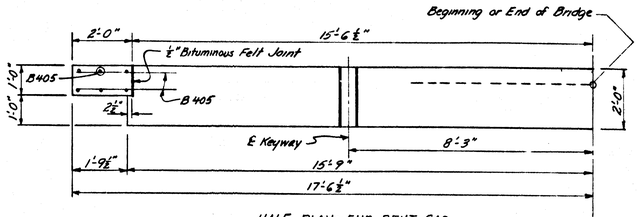
BRIDGE NO. 5367 DRAWING NO. 16878

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8-26-70	8-27-70			6	ARK.	S		63	119
				JOB NO.	9496				
				S ⓓ 16879 R.C. Column Bents 5367					

220







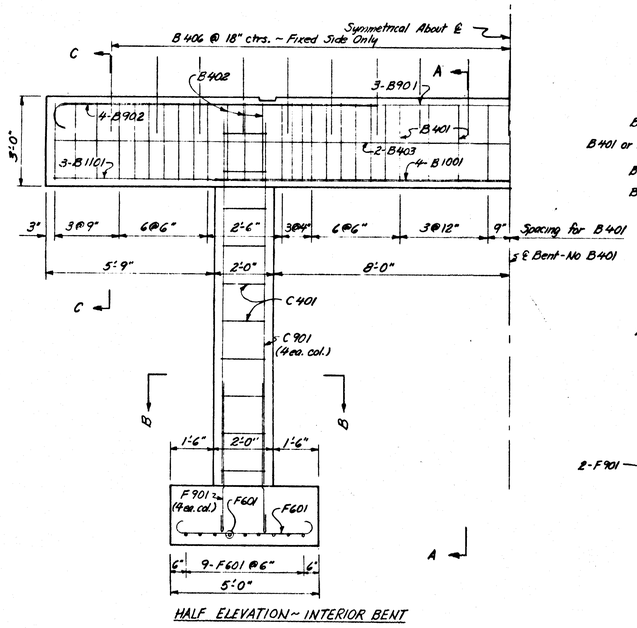
GENERAL NOTES

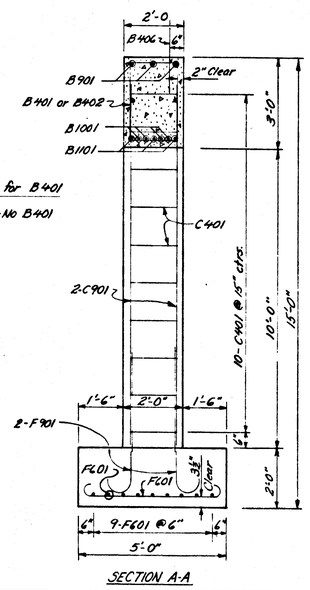
ALL CONCRETE TO BE CLASS S AND TO BE POURED IN THE DRY. ALL CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

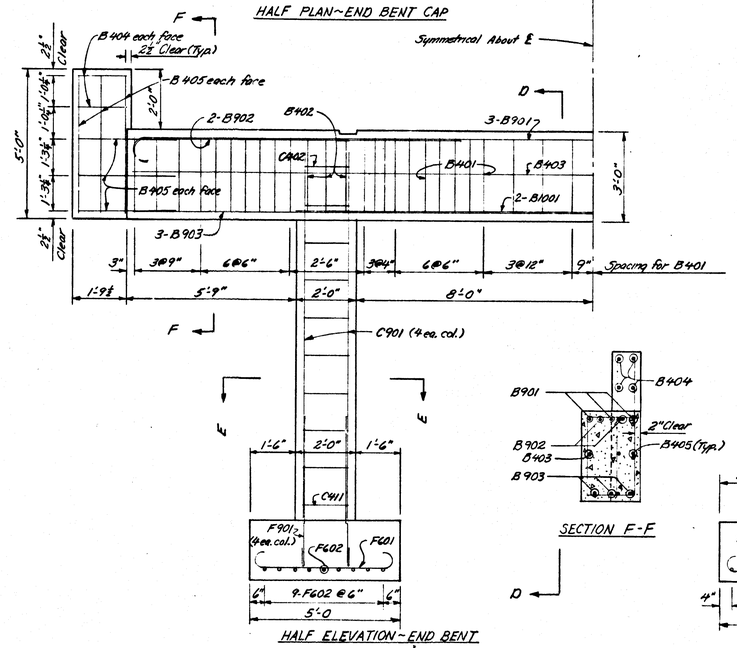
REINFORCING BARS TO BE OF ASTM A615, GRADE 40 STEEL. SHOP LISTS AND BENDING DIAGRAMS SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

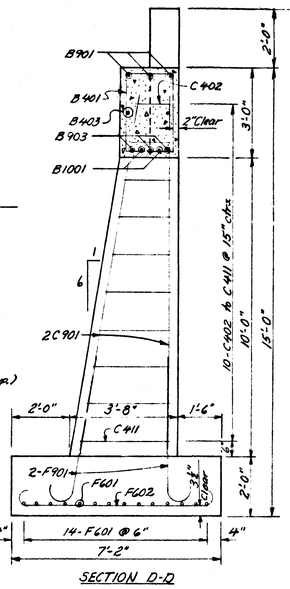
BITUMINOUS FELT JOINTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "CLASS S CONCRETE".

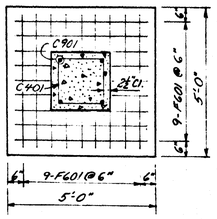
FOR ADDITIONAL NOTES SEE DWG. NO. 16878.









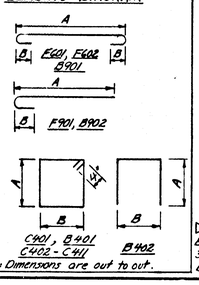


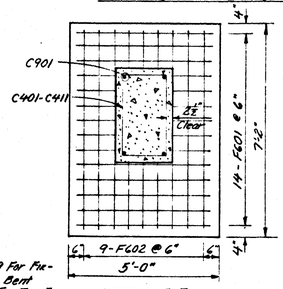
BAR LIST

MARK	NO. REQD PER BENT END	NO. REQD PER BENT INT.	Length	A	B	PIN DIAMETER
F601	28	36	5'-10"	4'-6"	6"	4½"
F602	18	—	8'-0"	6'-8"	6"	4½"
F901	8	8	6'-9"	5'-6"	10"	9"
C401	—	20	6'-10"	1'-7"	1'-7"	2"
C402 to C411	20 Total (2 each)	—	Varies 6'-3" to 10'-0"	Varies 1'-3½" to 3'-2"	1'-7"	2"
C901	8	8	12'-4"	—	—	Str.
B401	26	26	9'-8"	2'-8"	1'-8"	2"
B402	6	6	7'-10"	2'-8"	1'-8"	2"
B403	2	2	31'-2"	—	—	Str.
B404	8	—	1'-8"	—	—	Str.
B405	24	—	4'-8"	—	—	Str.
B406	—	▷	2'-6"	—	—	Str.
B901	3	3	33'-8"	31'-2"	10"	9"
B902	4	8	12'-7"	11'-4"	10"	9"
B1001	2	4	20'-0"	—	—	Str.
B903	3	—	31'-2"	—	—	Str.
B1101	—	3	31'-2"	—	—	Str.

▷ 19 For Fix-Exp. Bent
38 For Fix-Fix Bent.

BENDING DIAGRAM





DETAILS OF R.C. COLUMN BENTS
BRIDGE OVER WATTS CREEK
IMO ~ NORTH
SEARCY COUNTY
ROUTE 27 SEC. 16

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TIL DATE: 4-27-70
TRACED BY: DATE:
CHECKED BY: DV DATE: 4-28-70
SCALE: ½"=1'

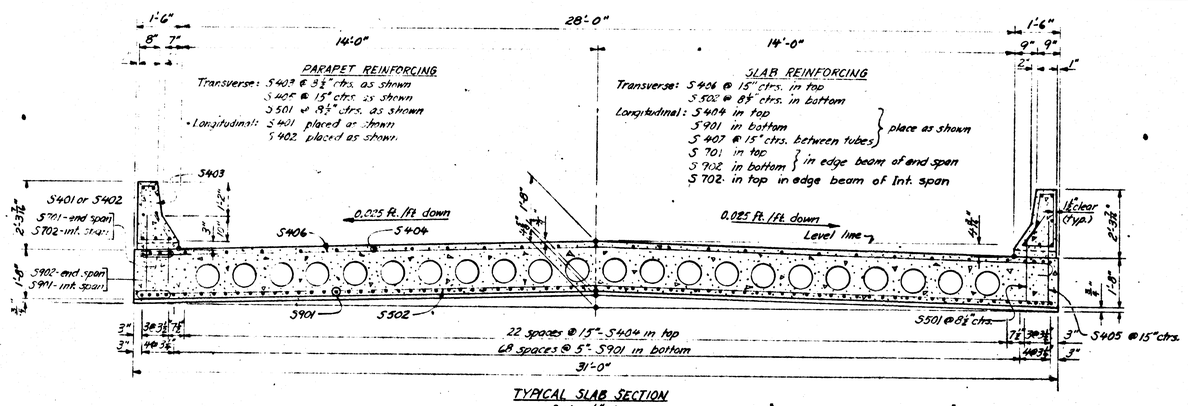
Vernal Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 5367 DRAWING NO. 16879

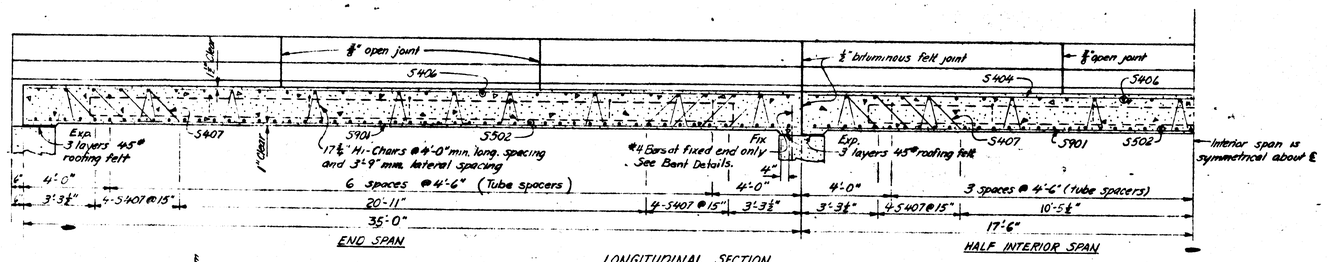
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
3-26-70	4/7/2/70		

FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	S			
JOB NO.	9496				

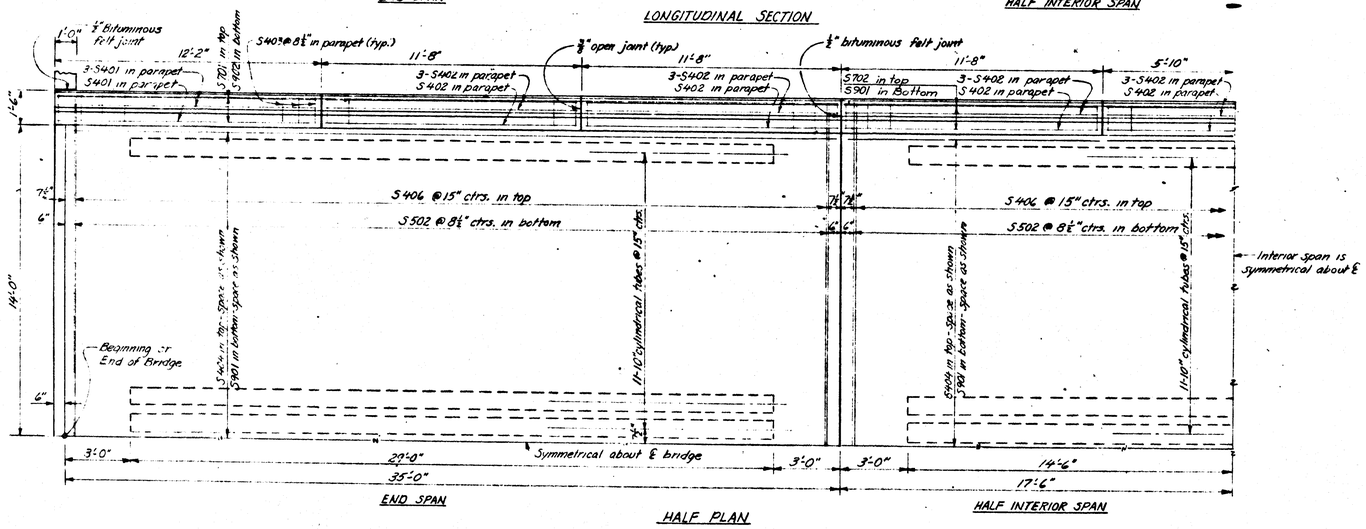
S 0 SH. 1 35'-FT. STD. SLAB w/PAR. 14940



TYPICAL SLAB SECTION
Scale: ½" = 1



LONGITUDINAL SECTION

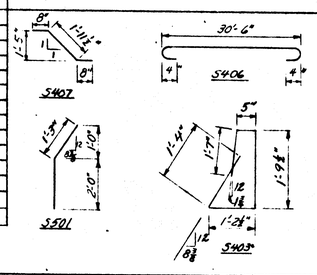


HALF PLAN

BAR LIST EACH SPAN

MARK	NO. REQ'D INT.	NO. REQ'D END	LENGTH	PIN DIA.
S401		14	11'-10"	Str.
S402	42	28	11'-4"	Str.
S403	102	104	5'-10"	2"
S404	23	23	34'-7"	Str.
S405	48	50	2'-9"	Str.
S406	28	28	31'-6"	3"
S407	168	168	3'-3"	2"
S501	72	74	3'-3"	2½"
S502	49	49	30'-8"	Str.
S901	77	69	34'-7"	Str.
S902	-	8	35'-1"	Str.
S701	-	8	35'-1"	Str.
S702	8	-	34'-7"	Str.

BENDING DIAGRAM



Dimensions are out to out of bars

GENERAL NOTES

ALL CONCRETE TO BE CLASS S. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL TO BE DEFORMED BARS OF ASTM A615, GRADE 40 STEEL. SHOP LISTS AND BENDING DIAGRAMS MUST BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

ALL CYLINDRICAL TUBES USED TO FORM VOIDS SHALL BE MOISTURE PROTECTED, LAMINATED TYPE CONSTRUCTION, MINIMUM THICKNESS 0.225 FOR 10" TUBES AND SHALL BE FURNISHED COMPLETE WITH END CLOSURES.

ALL REINFORCING AND FIBER TUBES SHALL BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY MEANS OF STEEL WIRE SUPPORTS AND SPACERS FOR TUBES OF SUFFICIENT SIZE AND NUMBER TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION, BUT IN NO CASE OF LESSER DESIGN THAN THAT SHOWN.

WIRE SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF REINFORCING STEEL.

TUBES FOR FORMING VOIDS AND WIRE SUPPORTS AND SPACERS FOR TUBES WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF CLASS S CONCRETE.

SHOP LISTS AND DIAGRAMS OF WIRE SUPPORTS AND SPACERS FOR TUBES SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION IS BEGUN.

ROOFING FELT, BITUMINOUS FELT AND POURED ASPHALT JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS S CONCRETE.

FOR ADDITIONAL DETAILS OF 35'-0" SLAB SPAN SEE SHEET 2 OF 2, DRWG. NO. 14941.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, THE 1966 SUPPLEMENTAL SPECIFICATIONS THERETO, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1969
DESIGN LIVE LOAD: H20
LOAD DISTRIBUTION - DEAD LOAD - 201 PSF
LIVE LOAD - 0.166 WHEELS PER FT. OF WIDTH PLUS 30% IMPACT
UNIT STRESSES: CLASS S CONCRETE (N=10) 1,200 PSI
REINFORCING STEEL 20,000 PSI

SHEET 1 OF 2
DETAILS OF STANDARD
35'-0" R.C. SLAB SPANS WITH VOIDS
28' CLEAR ROADWAY WITH PARAPETS

ROUTE 27 SEC. 16

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: DPH DATE: 4-27-70
TRACED BY: TLG DATE: 5-4-70
CHECKED BY: DV DATE: 5-5-70
SCALE: ⅜" = 1' & noted

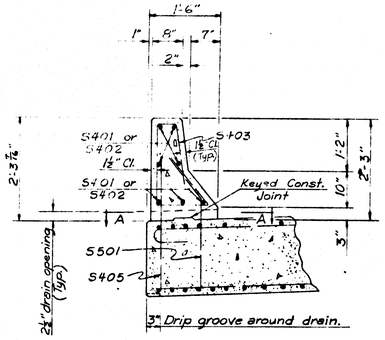
Veral Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 5367 DRAWING NO. 14940

File as Dwg 16879A.

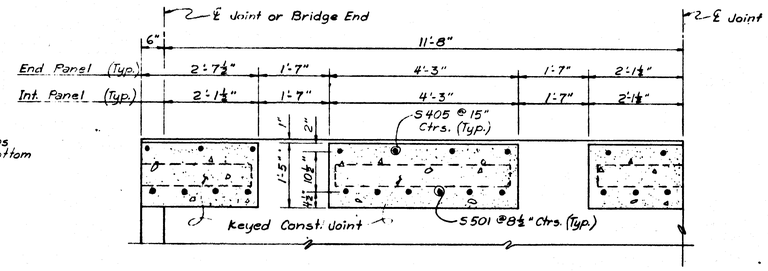
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8-26-70	6-22-70			6	ARK.	S			
				JOB NO.		9496			119

S(1) SH.2-35 Ft. STD. SLAB W/PAR. 14941

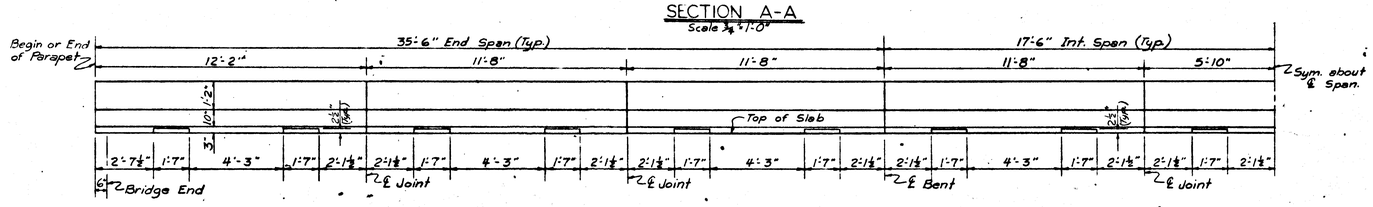


SECTION THRU PARAPET
Scale ¾" = 1'-0"

Note: Drain opening 2½" x 1'-7" Place as shown on each side of roadway. Bottom surface of drain opening shall be finished smooth.

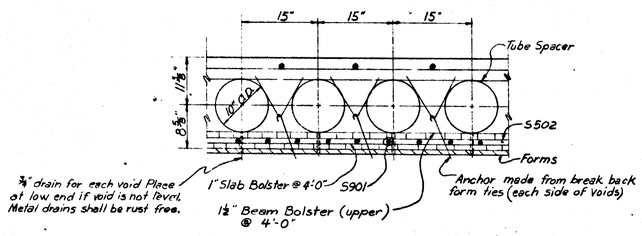


SECTION A-A
Scale ¾" = 1'-0"

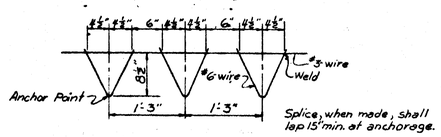


LOCATION OF DRAINS THRU PARAPET
Scale ⅜" = 1'-0"

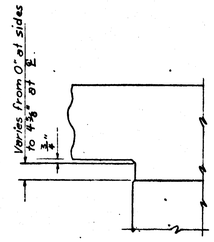
For Notes see Drawing No. 14940.



TUBE SPACING DETAIL
Scale 1" = 1'-0"



SPACER DETAIL
Scale 1" = 1'-0"



TYPICAL DETAIL AT BENT
Scale ¾" = 1'-0"

SHEET 2 OF 2
DETAILS OF STANDARD
35'-0" R.C. SLAB SPAN (W/VOIDS)
28' CLEAR RDWY. W/PARAPET

ROUTE 27 SEC. 16
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.P.H. DATE: 4-29-70
TRACED BY: D.P.H. DATE: 4-29-70
CHECKED BY: D.V. DATE: 5-5-70
SCALE: As Noted

Vural Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 5367 DRAWING NO. 14941

File as Dwg. 16879B

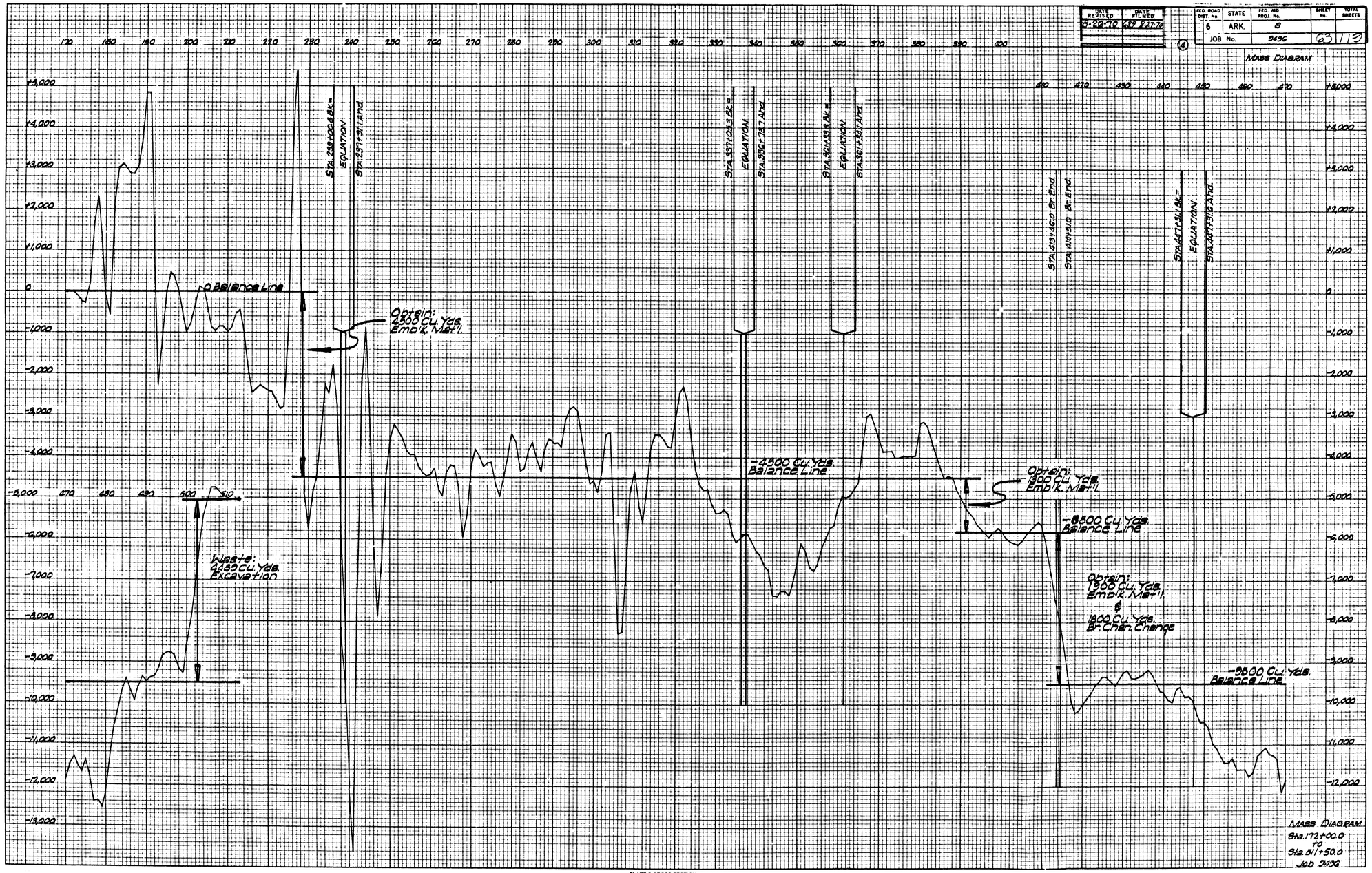


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

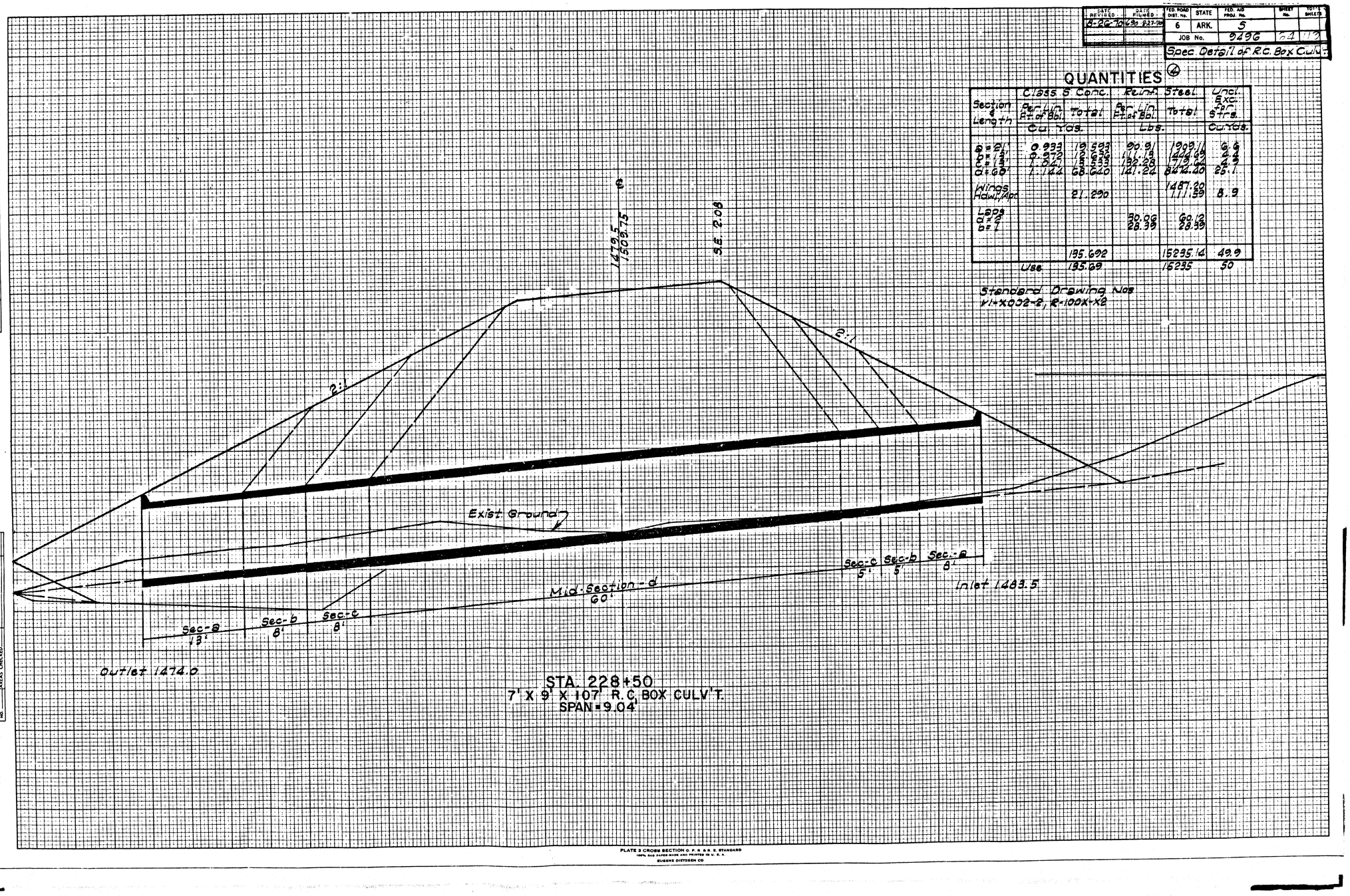
DATE REVISED	DATE FILMED	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
8-26-70	690 8-27-70	6	ARK.	5		
		JOB No.		9496	64	113

Spec. Detail of R.C. Box Culv't

QUANTITIES ④

Section & Length	Class S Conc. Per Lin. Ft. of Bbl.	Class S Conc. Total	Reinf. Steel Per Lin. Ft. of Bbl.	Reinf. Steel Total	Uncl. Exc. for Strs.
	Cu. Yds.		Lbs.		Cu. Yds.
a = 21'	0.933	19.593	90.91	1909.11	6.6
b = 13'	0.972	12.636	111.13	1444.69	4.4
c = 13'	1.041	13.533	132.28	1719.64	4.9
d = 60'	1.144	68.640	141.24	8474.40	25.1
Wings Hdwl./Apr.		21.290		1487.20 111.59	8.9
Laps a = 2 b = 1			30.06 28.39	60.12 28.39	
		135.692		15235.14	49.9
	Use	135.69		15235	50

Standard Drawing Nos
V1-X002-2, R-100X-X2



STA. 228+50
7' X 9' X 107' R.C. BOX CULV'T.
SPAN = 9.04'

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

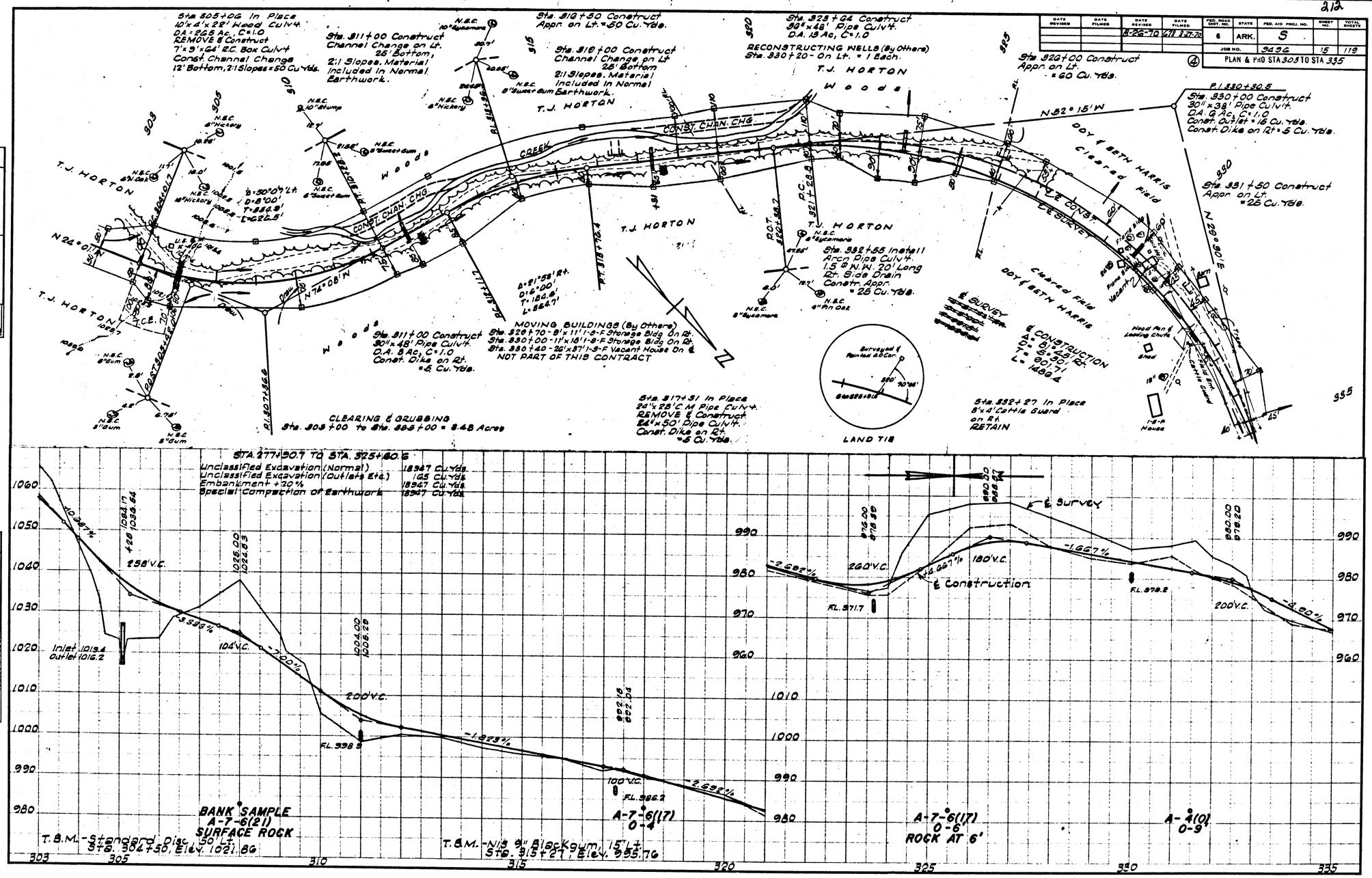
ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED		

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

212

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	8-27-70	6	ARK.	S		
				JOB NO.	9496		15	119

(4) PLAN & PRO STA 303 TO STA 335



PLAN — NOTE BOOK — No. — REVISED — ALIGNMENT CHECKED — G. & R.C. NOTES CHECKED — INC.

PROFILE — NOTE BOOK — No. — REVISED — PLOTTED — G. & R.C. NOTES — STRUCTURE NOTATIONS CHECKED

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	6-29-70	6	ARK.	S		
				JOB NO.		9496	16	118

PLAN & PROFILE STA 335 TO STA 367

Sta. 335+83 Construct Appr. on Lt. = 15 Cu. Yds.

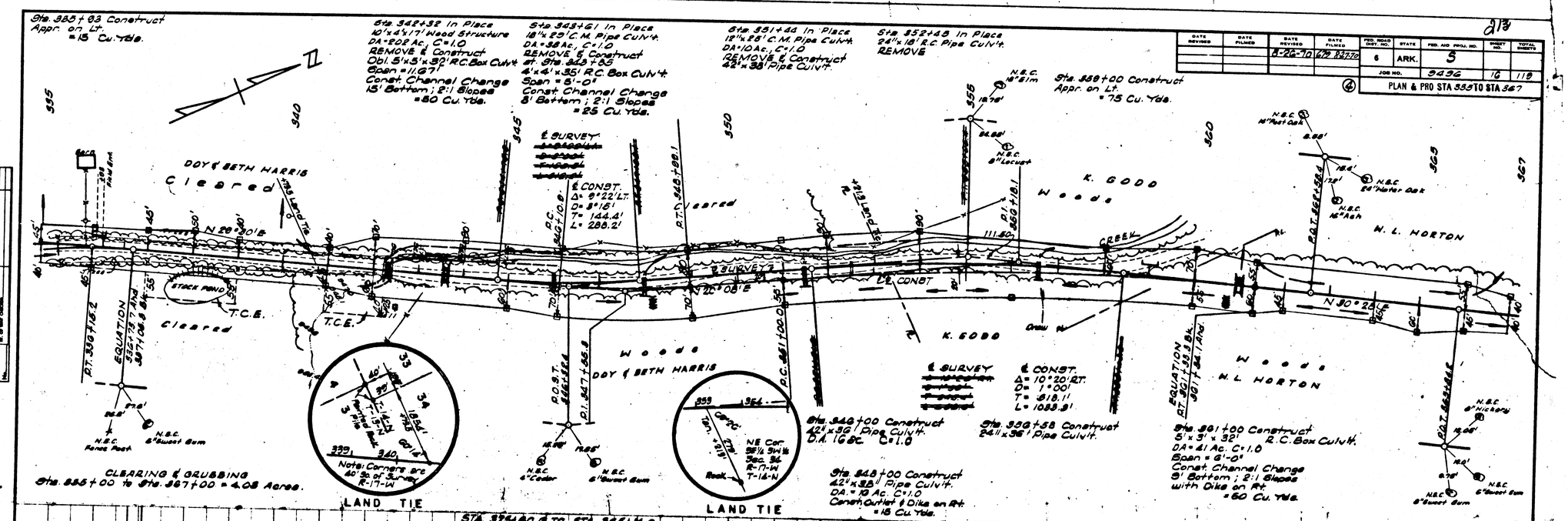
Sta. 342+32 In Place 10'x4'x17' Wood Structure DA=202 Ac. C=1.0 REMOVE & Construct Obl. 5'x5'x32' R.C. Box Culvt. Span = 11.67' Const. Channel Change 15' Bottom ; 2:1 Slopes = 80 Cu. Yds.

Sta. 343+61 In Place 18"x29' C.M. Pipe Culvt. DA=38 Ac. C=1.0 REMOVE & Construct at Sta. 343+65 4'x4'x35' R.C. Box Culvt. Span = 5'-0" Const. Channel Change 5' Bottom ; 2:1 Slopes = 25 Cu. Yds.

Sta. 351+44 In Place 18"x28' C.M. Pipe Culvt. DA=10 Ac. C=1.0 REMOVE & Construct 42"x38' Pipe Culvt.

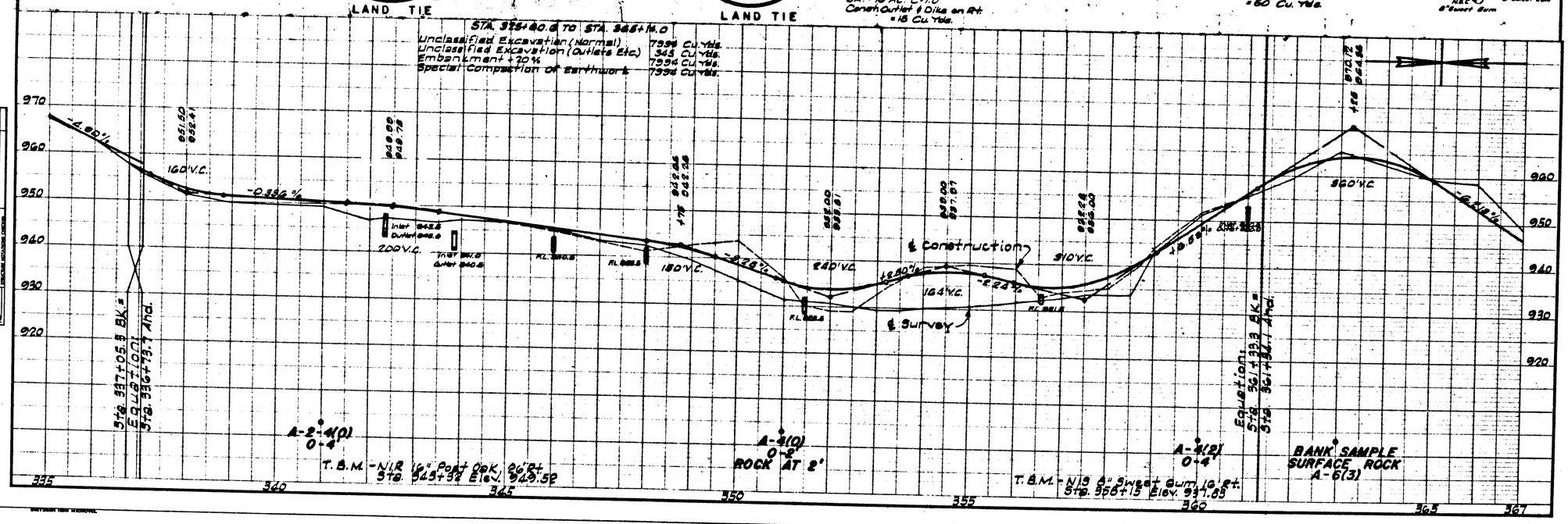
Sta. 352+48 In Place 24"x18' R.C. Pipe Culvt. REMOVE

Sta. 358+00 Construct Appr. on Lt. = 75 Cu. Yds.



STA. 335+40.0 TO STA. 365+14.0

Unclassified Excavation (Normal)	7996 Cu. Yds.
Unclassified Excavation (Outlets Etc.)	345 Cu. Yds.
Embankment + 20%	7996 Cu. Yds.
Special Compaction of Earthwork	7996 Cu. Yds.



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	9-10-70	6	ARK.	S		
				JOB NO.	9456		17	118

PLAN & PRO STA 367 TO STA 399

Sta. 367+40 Construct 40' R. Turnout on Lt. =50 Cu. Yds.

Sta. 368+00 Construct 30" x 38' Pipe Culvt. DA = 6 Ac, C = 1.0

Sta. 368+80 Construct Appr. on Lt. = 16 Cu. Yds.

Sta. 368+70 Construct Appr. on Rt. = 15 Cu. Yds.

Sta. 370+70 In Place Collapsed C.M. Pipe Culvt. REMOVE & Construct 24" x 36' Pipe Culvt. Const. Dike On Rt. = 5 Cu. Yds.

Sta. 373+33 In Place 6' x 4' x 27' Wood Structure DA = 7.1 Ac, C = 1.0 REMOVE & Construct at Sta. 373+80 5' x 5' x 32' R.C. Box Culvert. Span = 6.0' Const. Channel Change 9' Bottom, 2:1 Slope = 50 Cu. Yds.

Sta. 376+00 Install Arch Pipe Culvt. 1.5 @ W.W. 30' Long Lt. Side Drain Const. Appr. 15 Cu. Yds.

CLEARING & GRUBBING Sta. 367+00 to Sta. 399+00 = 1.58 Acres.

Sta. 377+20 Construct Approach On Lt. = 15 Cu. Yds.

Sta. 382+84 Construct Approach On Rt. = 15 Cu. Yds.

Sta. 382+82 In Place 30" x 24' R.C. Pipe Culvt. DA = 38 Ac, C = 1.0 REMOVE & Construct 54" x 36' Pipe Culvert

Sta. 383+36 In Place 24" x 31' C.M. Pipe Culvt. REMOVE & Construct 24" x 36' Pipe Culvt.

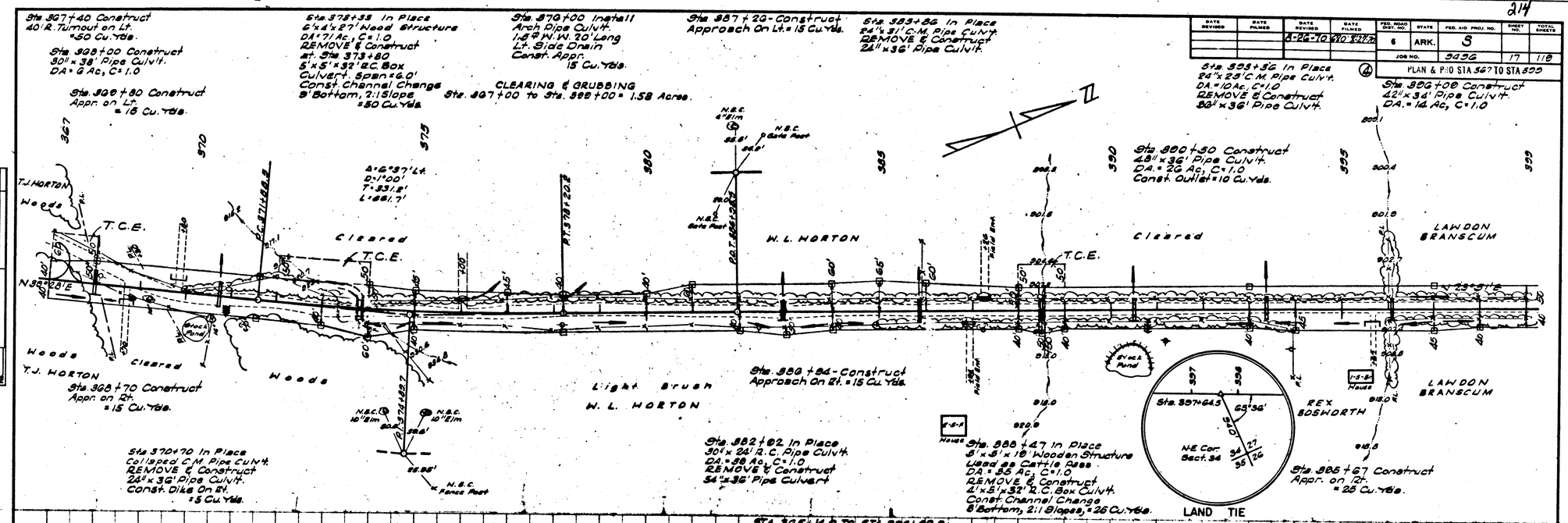
Sta. 388+47 In Place 8' x 8' x 18' Wooden Structure Used as Cattle Pass. DA = 35 Ac, C = 1.0 REMOVE & Construct 4' x 8' x 32' R.C. Box Culvt. Const. Channel Change 8' Bottom, 2:1 Slopes, = 26 Cu. Yds.

Sta. 393+36 In Place 24" x 23' C.M. Pipe Culvt. DA = 10 Ac, C = 1.0 REMOVE & Construct 30" x 36' Pipe Culvt.

Sta. 396+00 Construct 48" x 36' Pipe Culvt. DA = 26 Ac, C = 1.0 Const. Outlet = 10 Cu. Yds.

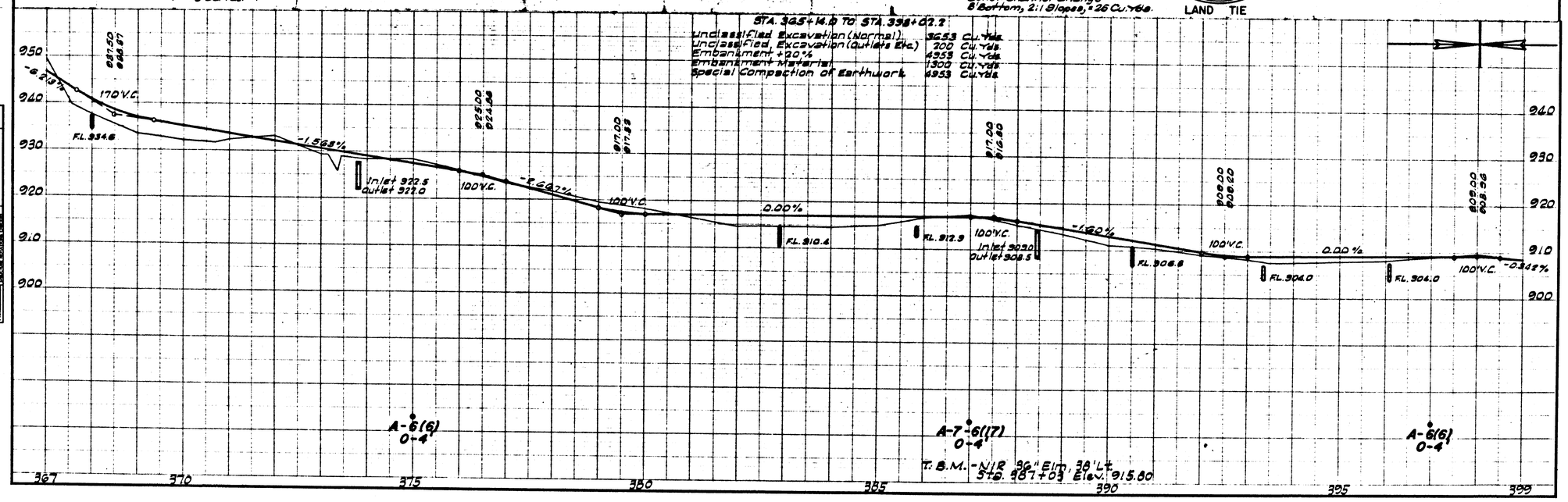
Sta. 396+00 Construct 42" x 34' Pipe Culvt. DA = 14 Ac, C = 1.0

Sta. 395+67 Construct Appr. on Rt. = 25 Cu. Yds.



STA. 365+14.0 TO STA. 399+02.2

Unclassified Excavation (Normal)	3653 Cu. Yds.
Unclassified Excavation (Outlets Etc.)	200 Cu. Yds.
Embankment +20%	4953 Cu. Yds.
Embankment Material	1300 Cu. Yds.
Special Compaction of Earthwork	4953 Cu. Yds.

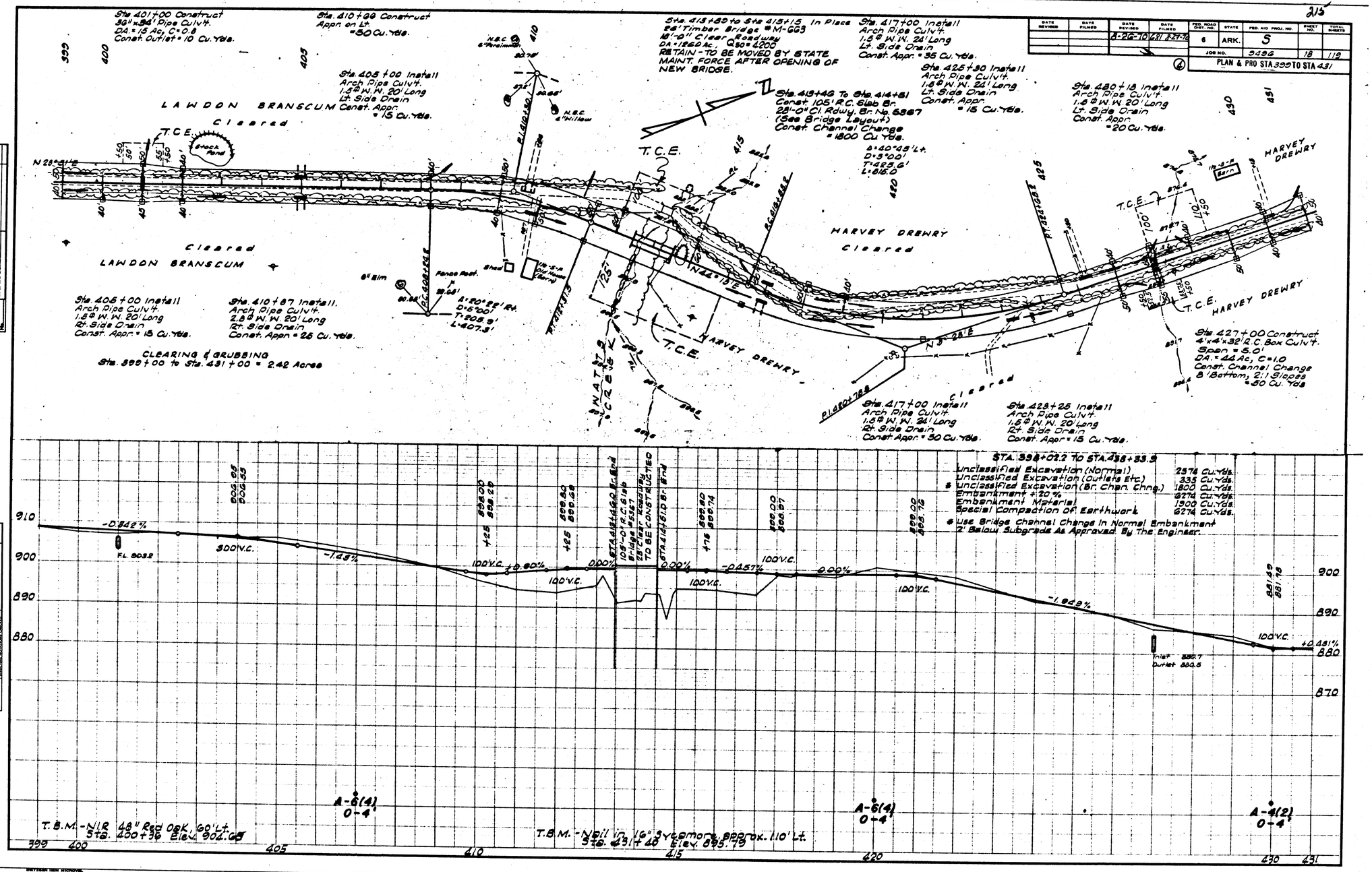


T. B.M. - N12 36" Elm. 38' Lt. Sta. 387+03 Elev. 915.80

PLAN NOTES: NOTE BOOK, DRAWN BY, CHECKED BY, STRUCTURE INVESTIGATION CHECKED, NO.

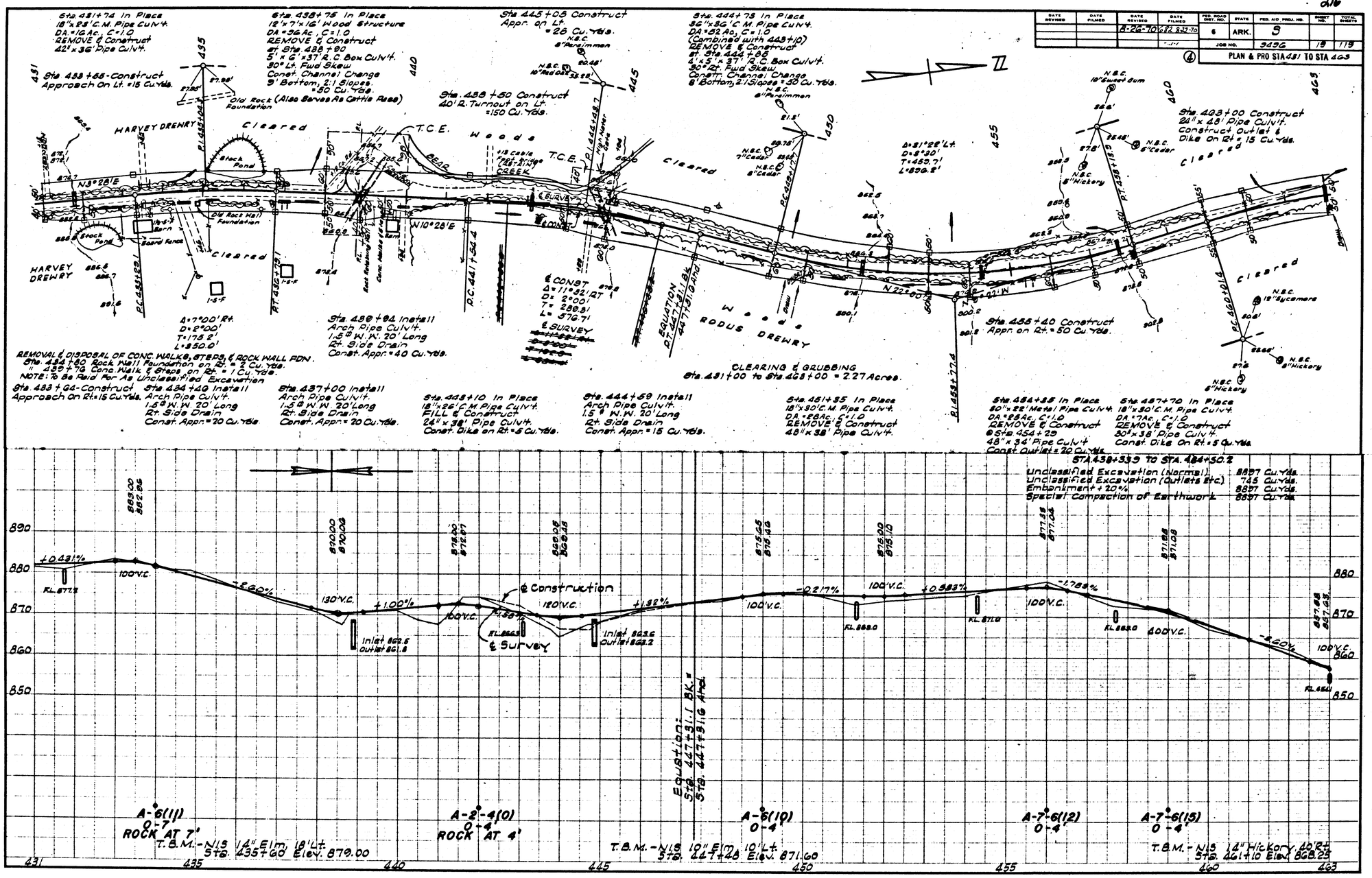
PROFILE NOTES: NOTE BOOK, DRAWN BY, CHECKED BY, STRUCTURE INVESTIGATION CHECKED, NO.

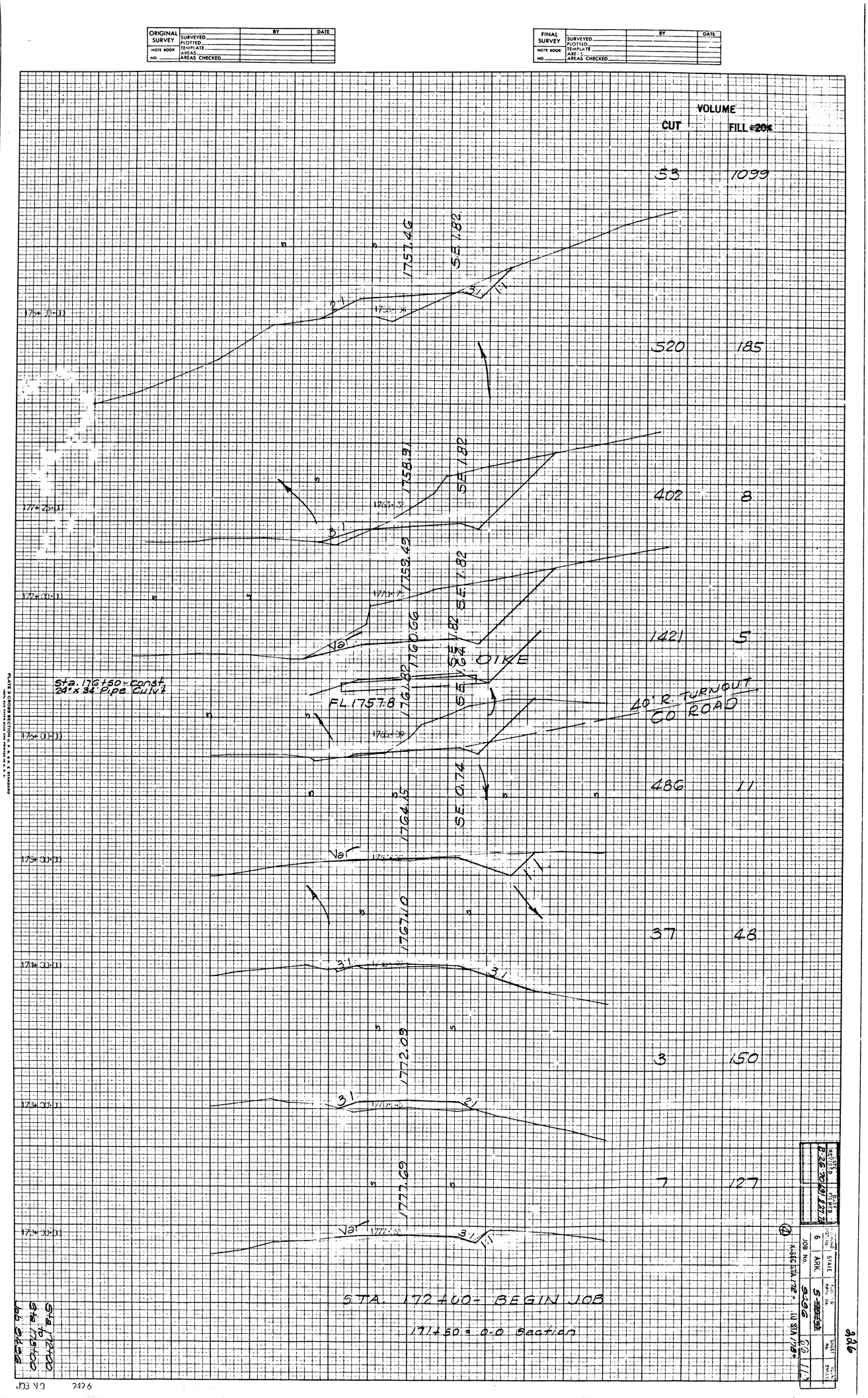
SHEYENNE-1966 MICROVISE


215
PLAN & PRO STA 399 TO STA 431
6 ARK. S
JOB NO. 9496 18 119
Sta. 401+00 Construct 36"x34' Pipe Culvt. DA.=15 Ac, C=0.8 Const. Outlet=10 Cu. Yds.
Sta. 410+00 Construct Appr. on Lt. =50 Cu. Yds.
Sta. 413+89 to Sta 415+15 In Place 26' Timber Bridge #M-663 18'-0" Clear Roadway DA.=126.0 Ac., Q50=4200 RETAIN - TO BE MOVED BY STATE MAINT. FORCE AFTER OPENING OF NEW BRIDGE.
Sta. 417+00 Install Arch Pipe Culvt. 1.5 Φ W.W. 24' Long Lt. Side Drain Const. Appr. =35 Cu. Yds.
Sta. 405+00 Install Arch Pipe Culvt. 1.5 Φ W.W. 20' Long Lt. Side Drain Const. Appr. =15 Cu. Yds.
Sta. 413+46 To Sta. 414+51 Const. 105' R.C. Slab Br. 28'-0" Cl. Rdwy. Br. No. 5367 (See Bridge Layout) Const. Channel Change =1800 Cu. Yds.
Sta. 425+30 Install Arch Pipe Culvt. 1.5 Φ W.W. 24' Long Lt. Side Drain Const. Appr. =15 Cu. Yds.
Sta. 430+18 Install Arch Pipe Culvt. 1.5 Φ W.W. 20' Long Lt. Side Drain Const. Appr. =20 Cu. Yds.
LAWDON BRANSCUM
Cleared
T.C.E.
Stock Pond
HARVEY DREWRY
Cleared
Sta. 405+00 Install Arch Pipe Culvt. 1.5 Φ W.W. 20' Long Rt. Side Drain Const. Appr. =15 Cu. Yds.
Sta. 410+87 Install Arch Pipe Culvt. 2.8 Φ W.W. 20' Long Rt. Side Drain Const. Appr. =25 Cu. Yds.
CLEARING & GRUBBING Sta. 399+00 to Sta. 431+00 = 2.42 Acres
Sta. 427+00 Construct 4'x4'x32' R.C. Box Culvt. Span = 5.0' DA.=44 Ac, C=1.0 Const. Channel Change 8' Bottom, 2:1 Slopes =50 Cu. Yds.
Sta. 417+00 Install Arch Pipe Culvt. 1.5 Φ W.W. 24' Long Rt. Side Drain Const. Appr. =50 Cu. Yds.
Sta. 423+25 Install Arch Pipe Culvt. 1.5 Φ W.W. 20' Long Rt. Side Drain Const. Appr. =15 Cu. Yds.
STA. 398+02.2 TO STA. 438+33.9
Unclassified Excavation (Normal) 2574 Cu. Yds.
Unclassified Excavation (Outlets Etc.) 335 Cu. Yds.
* Unclassified Excavation (Br. Chan. Chng.) 1800 Cu. Yds.
Embankment +20% 6274 Cu. Yds.
Embankment Material 1900 Cu. Yds.
Special Compaction Of Earthwork 6274 Cu. Yds.
* Use Bridge Channel Change In Normal Embankment 2' Below Subgrade As Approved By The Engineer.
-0.342%
F.L. 903.2
300' V.C.
-1.43%
100' V.C.
+0.60%
0.00%
-0.457%
-1.949%
+0.431%
Inlet 880.7
Outlet 880.5
A-6(4) 0-4
A-6(4) 0-4
A-4(2) 0-4
T.B.M. - NIR 48" Red Oak, 60' Lt. Sta. 400+36 Elev. 904.65
T.B.M. - Nail in 16" Sycamore approx. 110' Lt. Sta. 431+40 Elev. 895.79
PLAN
PROFILE

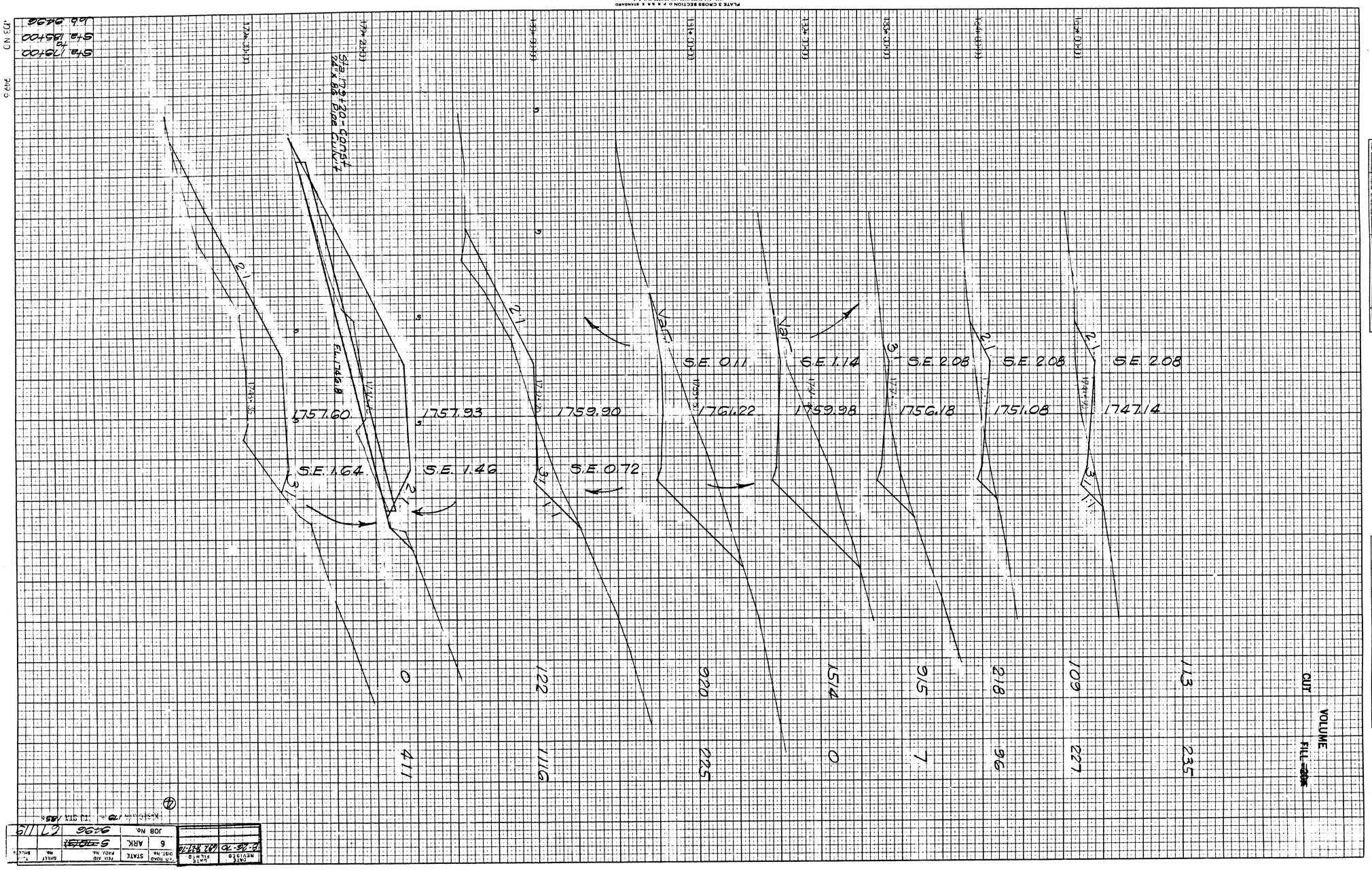
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		8-26-70	8-26-70	6	ARK.	9		
				JOB NO.	9496		18	119

④ PLAN & PROFILE STA 431 TO STA 463





ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
NOTE BOOK
NO.
FINAL SURVEY
VOLUME
CUT
FILL ~~20%~~
53
1099
520
185
402
8
1421
5
486
11
37
48
3
150
7
127
1757.46
S.E. 1.82
1758.91
1759.49
1760.66
1761.82
1764.15
1767.10
1772.09
1777.69
SE 0.74
OIKE
40' R. TURNOUT
CO ROAD
Sta. 176+50 - Const.
24" x 34' Pipe Culvt
FL. 1757.8
STA. 172+00 - BEGIN JOB
171+50 = 0-0 Section
Sta. 172+00
to
Sta. 178+00
Job 9496
JOB NO. 9496



227

DATE REVISED	DATE FILMED	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
8-26-70	6-22 8-27-70	6	ARK.	S-~~70(3)~~		
		JOB No.		9496	67	119

X-SEC STA 179+ TO STA 185+

④

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

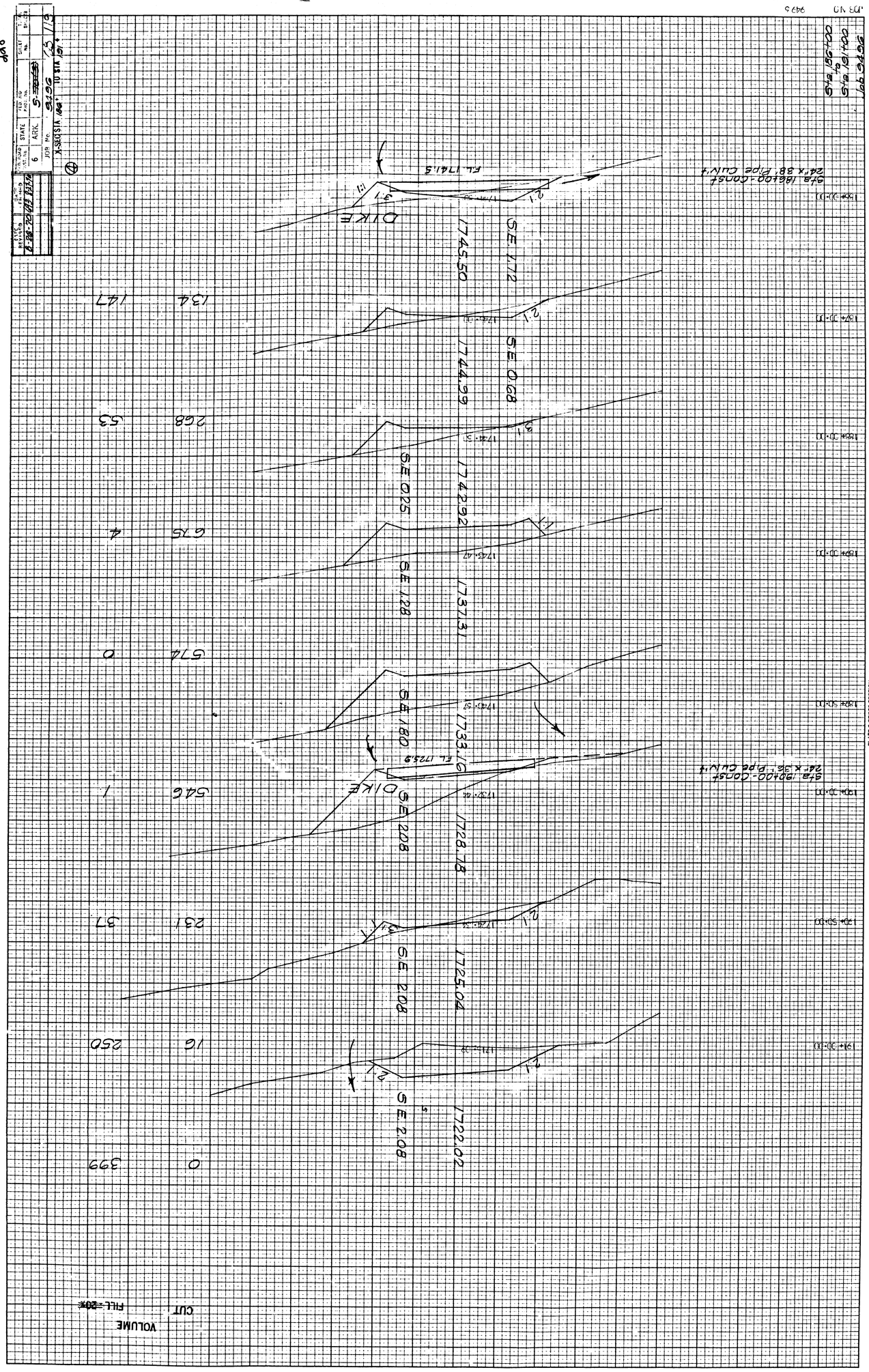
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

VOLUME
CUT
FILL
113
235
109
227
218
96
315
7
1514
0
920
225
122
116
0
411
1747.14
S.E 208
1751.08
S.E 208
1756.18
S.E 208
1759.98
S.E 114
1761.22
S.E 011
1759.90
S.E 072
1757.93
S.E 146
1757.60
S.E 164
FL 1746.8
1:1
3:1
2:1
Var
Sta. 179+20 - Const.
24" x 96' Pipe Culvt.
181+00.00
181+00.00
180+00.00

Sta. 179+00
to
Sta. 185+00
Job 9496

9496
JOB NO.

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



	CUT	FILL ~~20%~~
VOLUME	0	399
	16	250
	231	37
	546	1
	574	0
	616	4
	768	53
	134	147

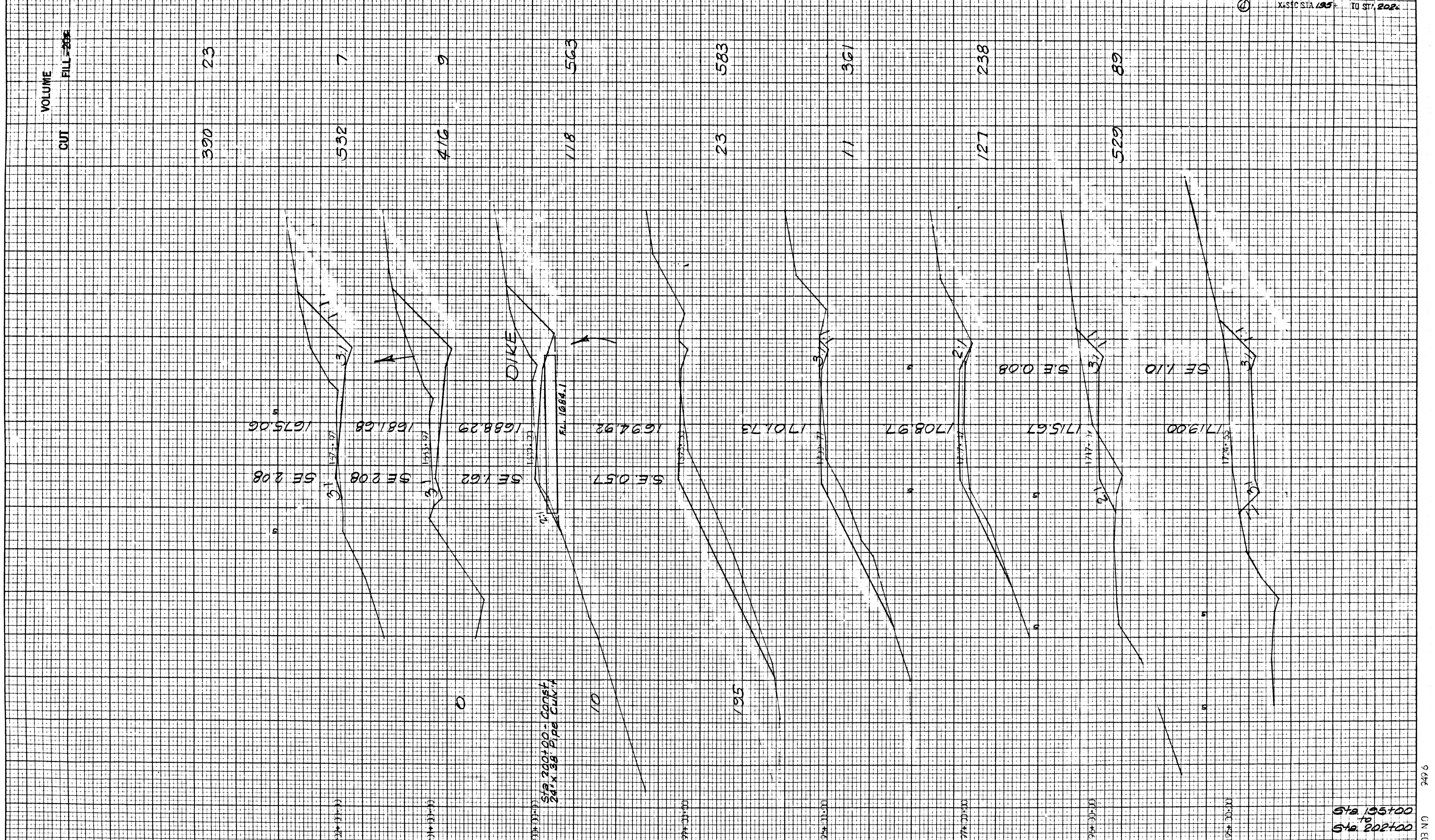
ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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

230

DATE REVISED	REVISED	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
8-26-70	635 8-27-70	6	ARK.	5-70(3)		
		JOB No.		9496	70	113

X-SEC STA 195+ TO STA 202+



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

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

JOB NO 9496

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

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

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

Sta. 208+00 to Sta. 211+00
Job 9496

JOB NO. 9496

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-[illegible]	71	119
JOB No.		9496		

*SEC. STA 208+ TO STA 211+

231

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

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

DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~	72	119

JOB No. 9496

X-SEC STA 212+ TO STA 219+

232

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

FIN'L SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

REVISED	DATE	CHECKED	DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
5-26-70	1-27-70		6	ARK.	S-~~[illegible]~~	73	119

JOB No. 9496

X-SEC STA 220+ TO STA 224+

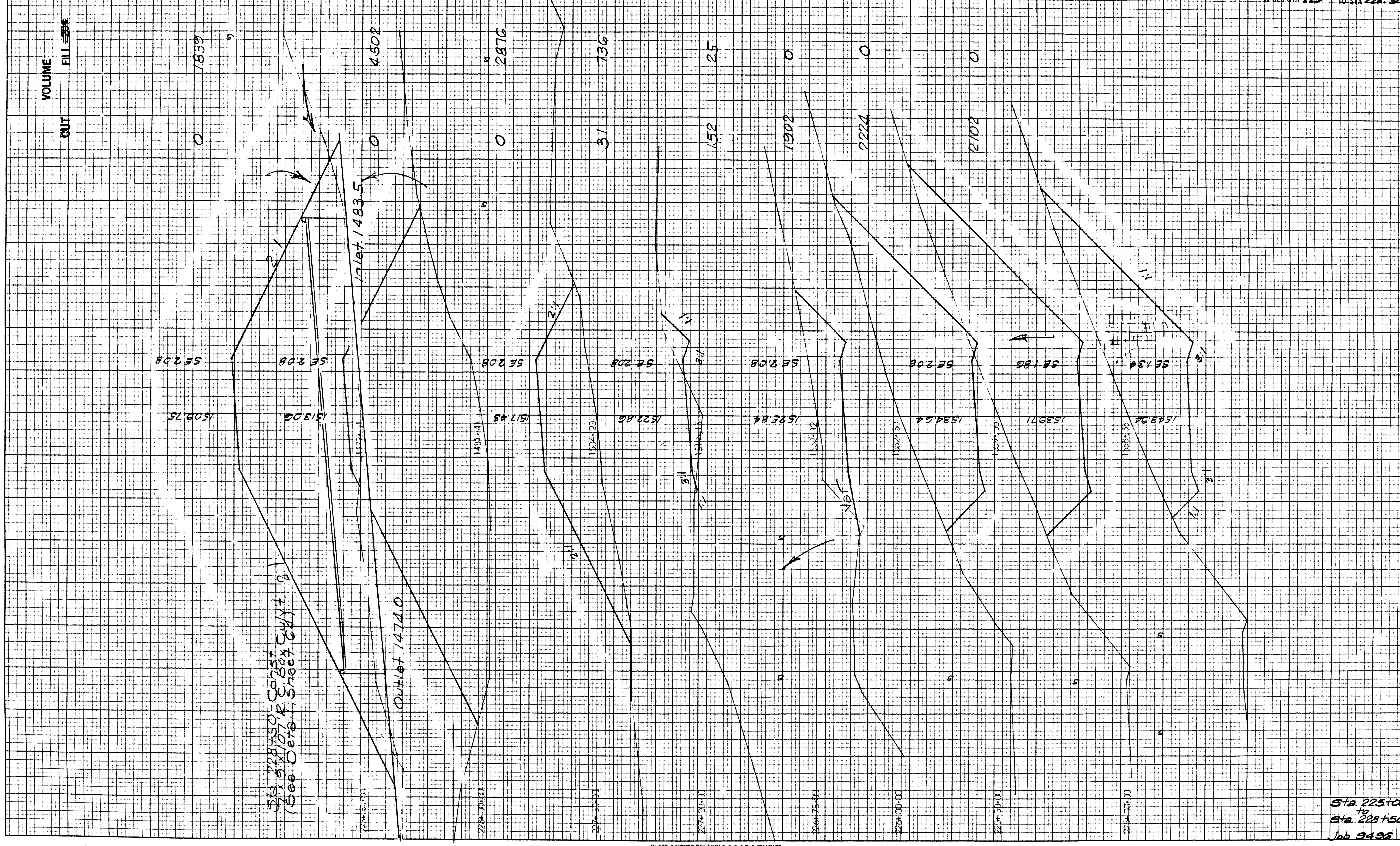
233

JOB NO 9496

234

DATE REVISED	DATE FILMED	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
8-26-70	8-27-70	6	ARK.	5-~~70(3)~~		
		JOB No.		9496	74	119

X-SEC STA 225 TO STA 228+50



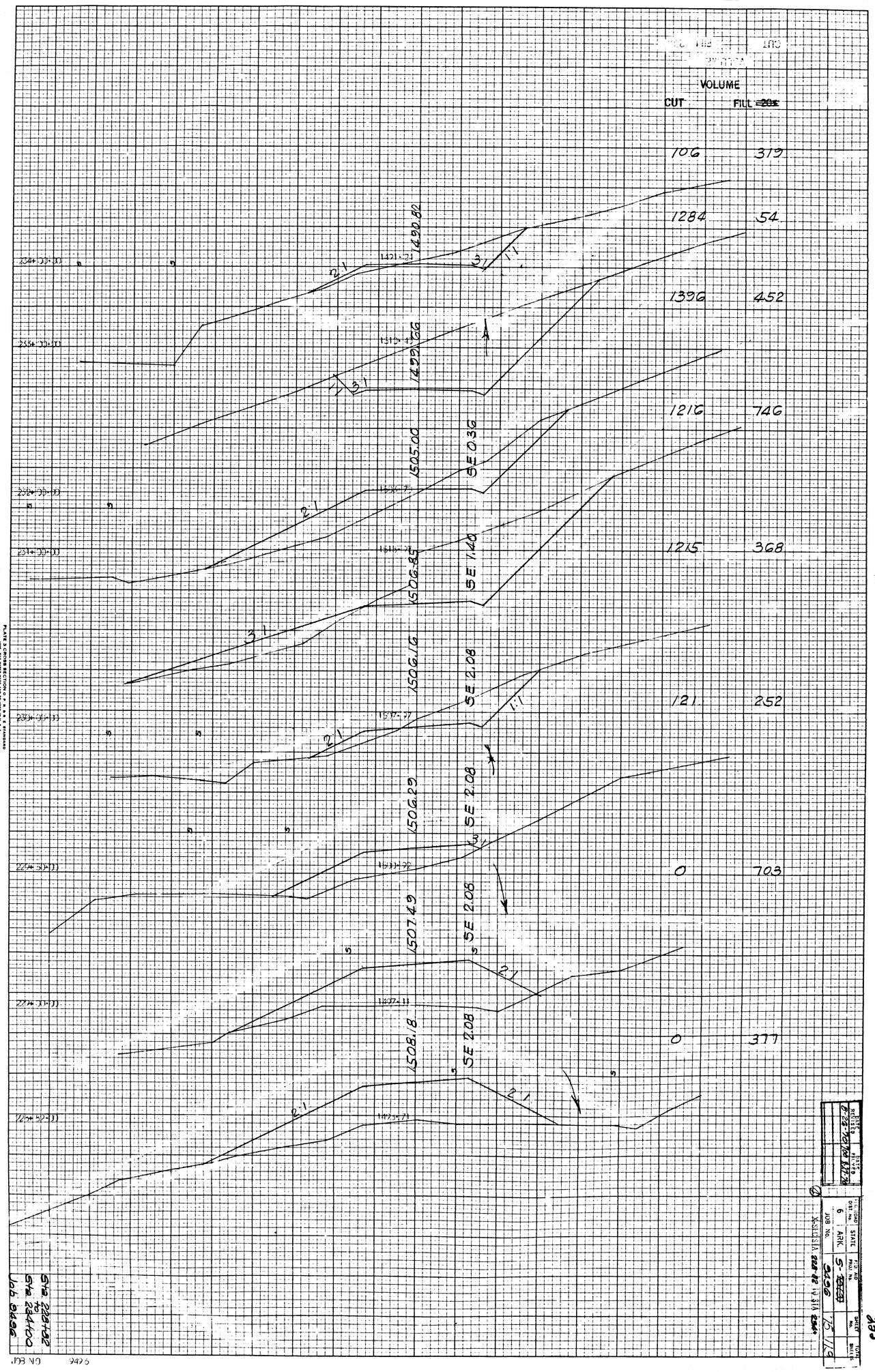
ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE — NOTE BOOK NO.

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

Sta. 225+00 to Sta. 228+50 Job 9496

JOB NO. 9496

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



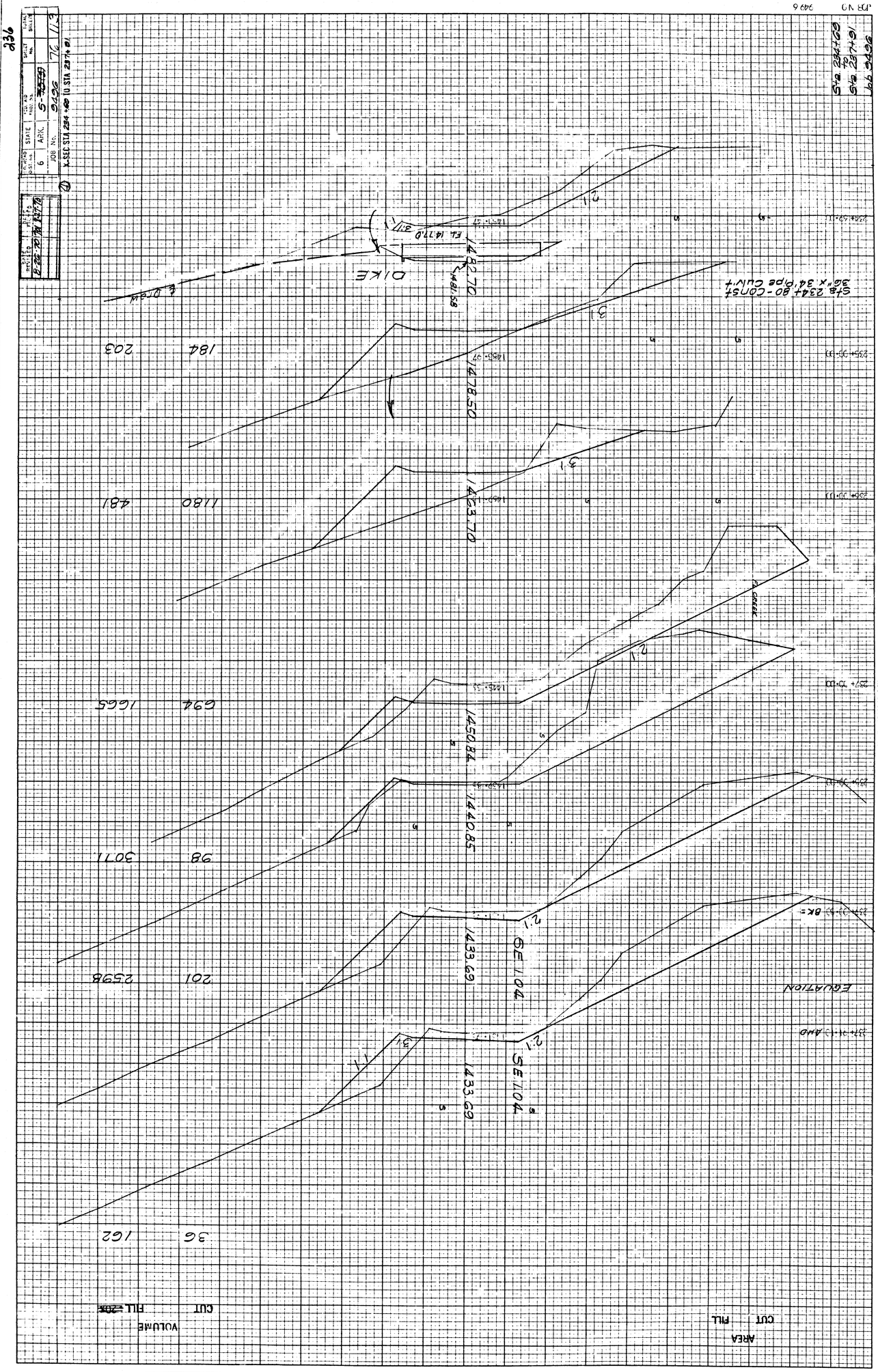
DATE REVISED	DATE FILMED
8-26-76	8-27-76

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~		
JOB No.		9496	75	119

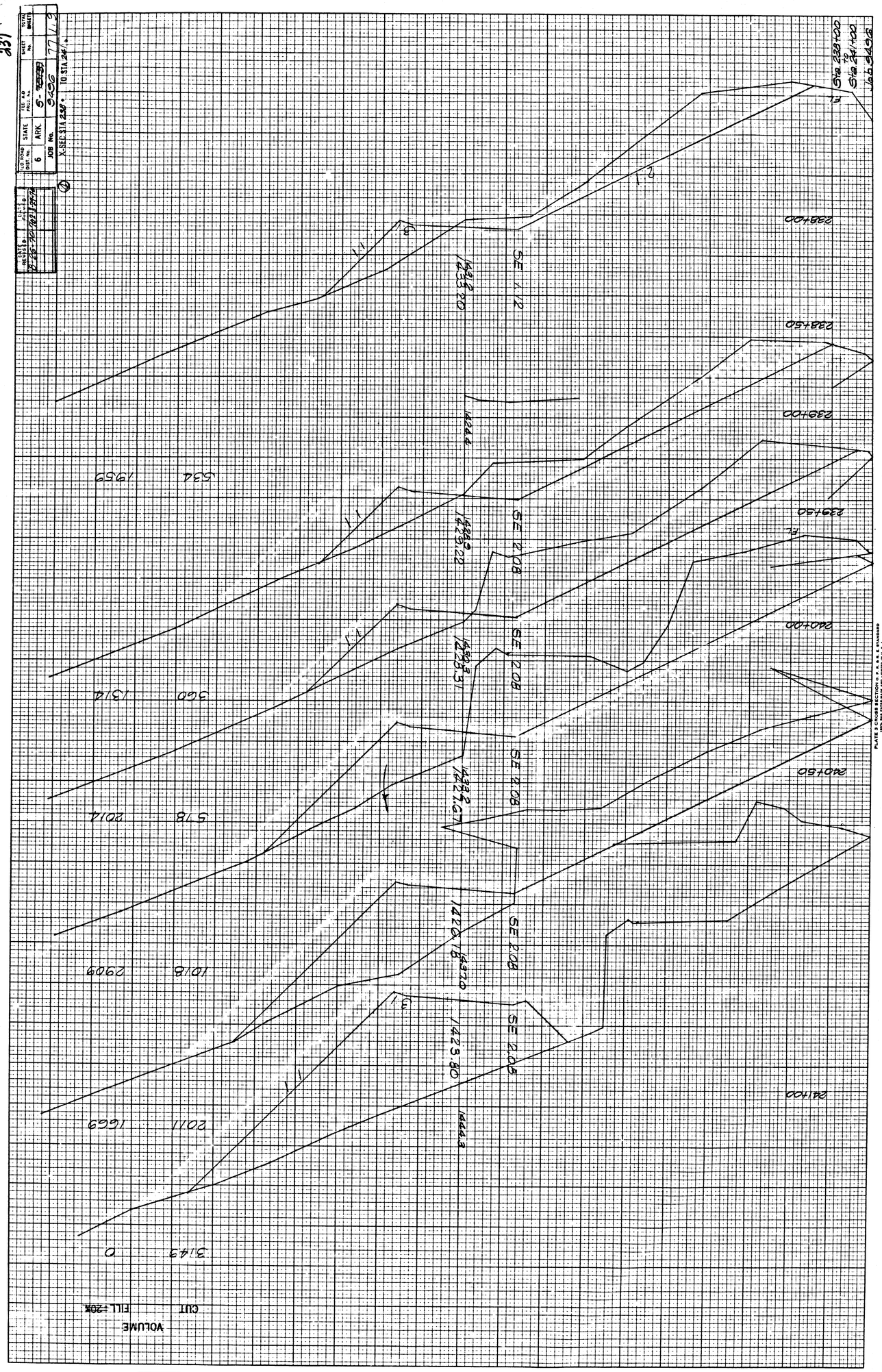
X-SECTS 228+82 TO STA 234+

235

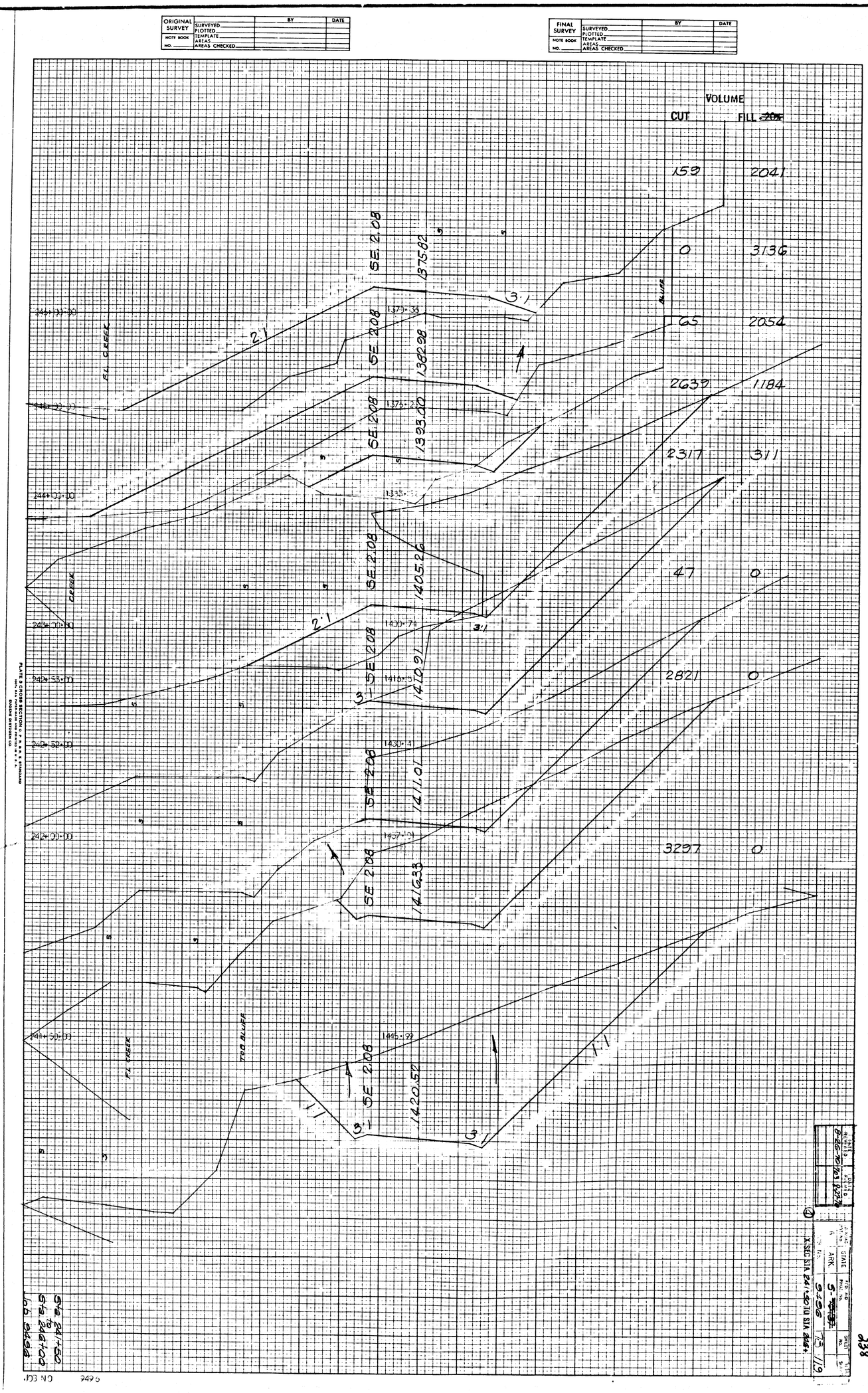
JOB NO 9496



236
STATE
ARK.
JOB No. 9496
X-SEC STA 234+69 TO STA 237+91
Sta 234+69 to Sta 237+91 Job 9496
DIKE
℄ Draw
Sta 234+80 - Const 36" x 34' Pipe Culvt
EQUATION
1482.70
1478.50
1463.70
1450.84
1440.85
1433.69
1433.69
5E 1.04
5E 1.04
184
203
1180
481
694
1665
98
3071
201
2598
36
162
VOLUME
CUT
FILL
AREA
CUT
FILL



237
FED. ROAD DIST. No. 6
STATE ARK.
FED. AID PROJ. No. S-
JOB No. 9496
X-SEC. STA 238+
TO STA 241+
Sta 238+00 to Sta 241+00 Job 9496
238+00
238+50
239+00
239+50
240+00
240+50
241+00
SE 1.12
SE 2.08
1424.4
1429.22
1428.31
1427.67
1426.18
1423.80
1444.3
1959
1314
2014
2909
1669
0
VOLUME
CUT
FILL



ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
NOTE BOOK
NO.
FINAL SURVEY
VOLUME
CUT
FILL
159
2041
0
3136
65
2054
2639
1184
2317
311
47
0
2821
0
3297
0
SE 2.08
1375.82
1382.98
1393.00
1405.26
1410.91
1411.01
1416.33
1420.52
2:1
3:1
1:1
FL CREEK
CREEK
TOB BLUFF
BLUFF
244+00.00
243+00.00
242+53.00
242+52.00
242+00.00
241+50.00
Sta 241+50 to Sta 246+00
Job 9496
X-SEC STA 241+50 TO STA 246+
STATE
ARK.
9496

238

239

DATE REVISED	DATE FILMED
8-26-70	70# 8-27-70

ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-		
JOB No.		9496	79	119

X-SEC STA. 247+ TO STA. 253+

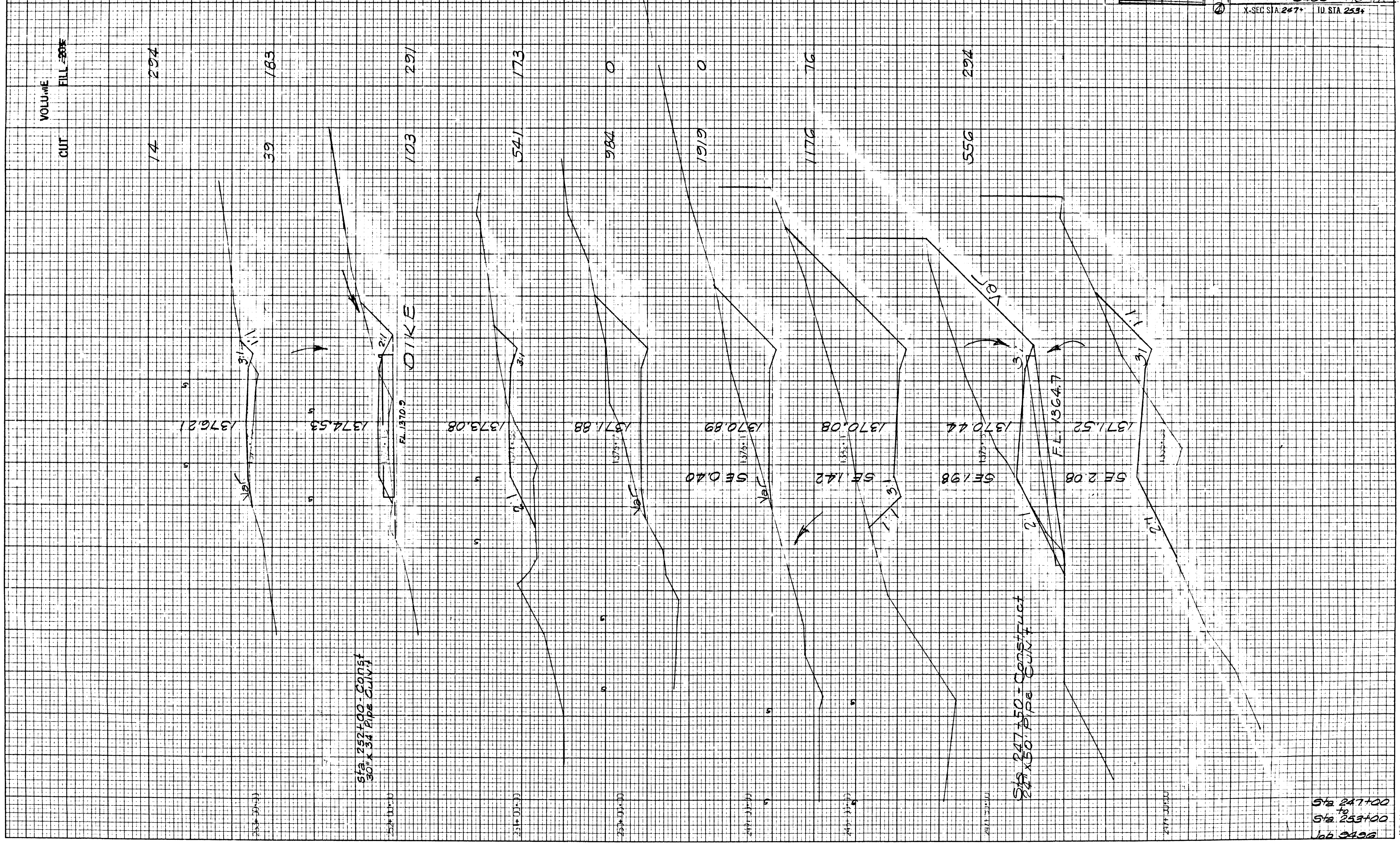


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

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

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

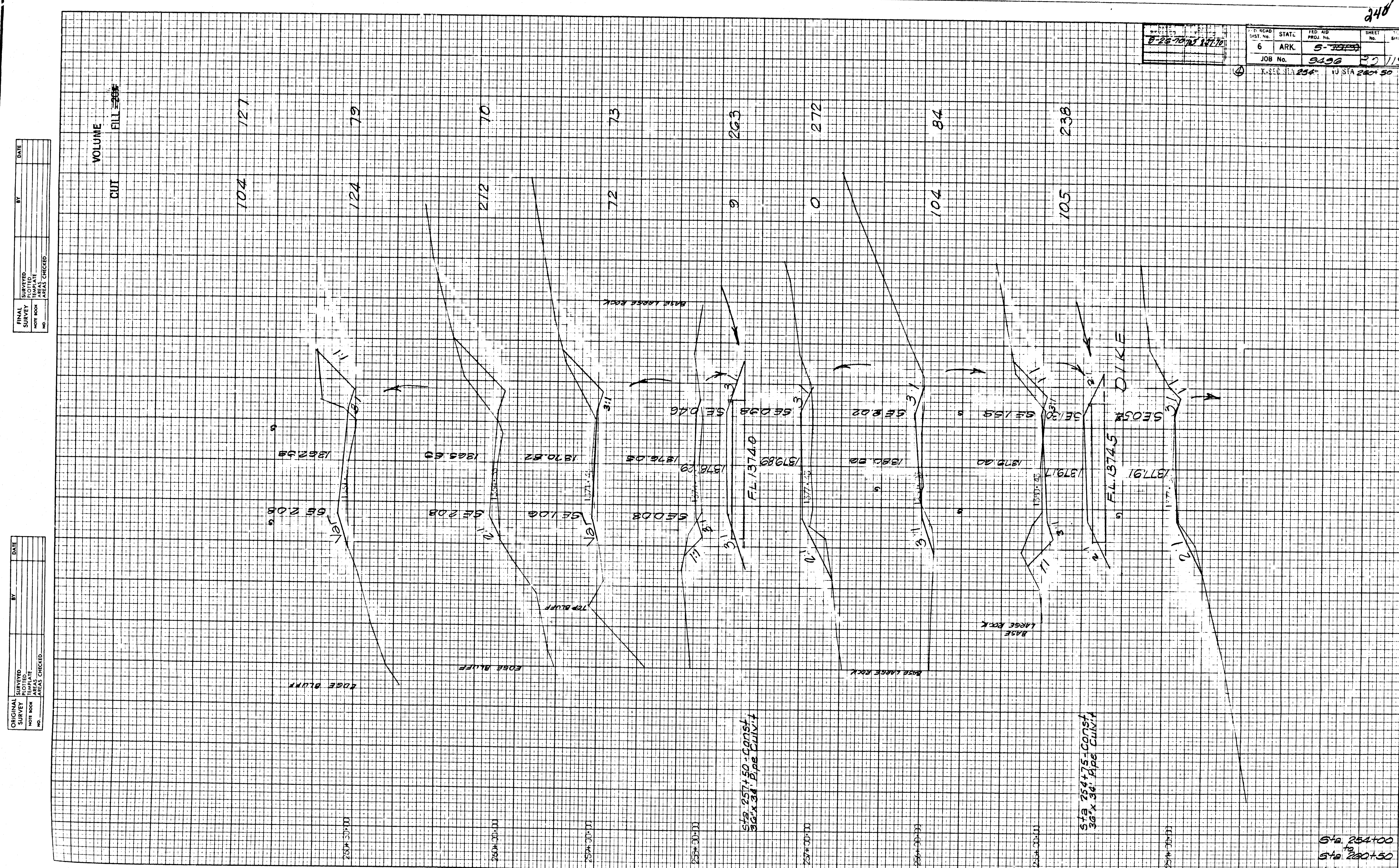
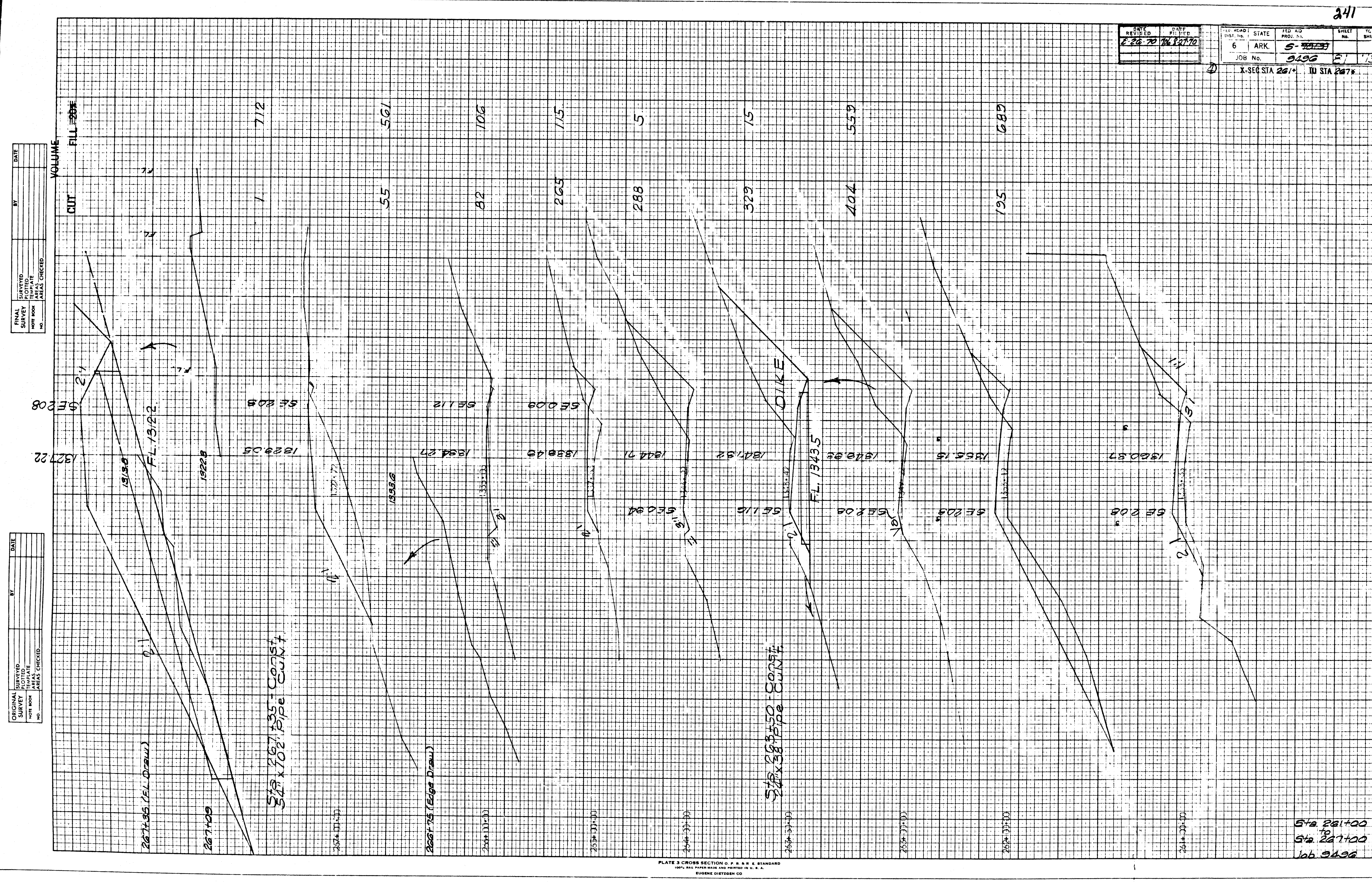
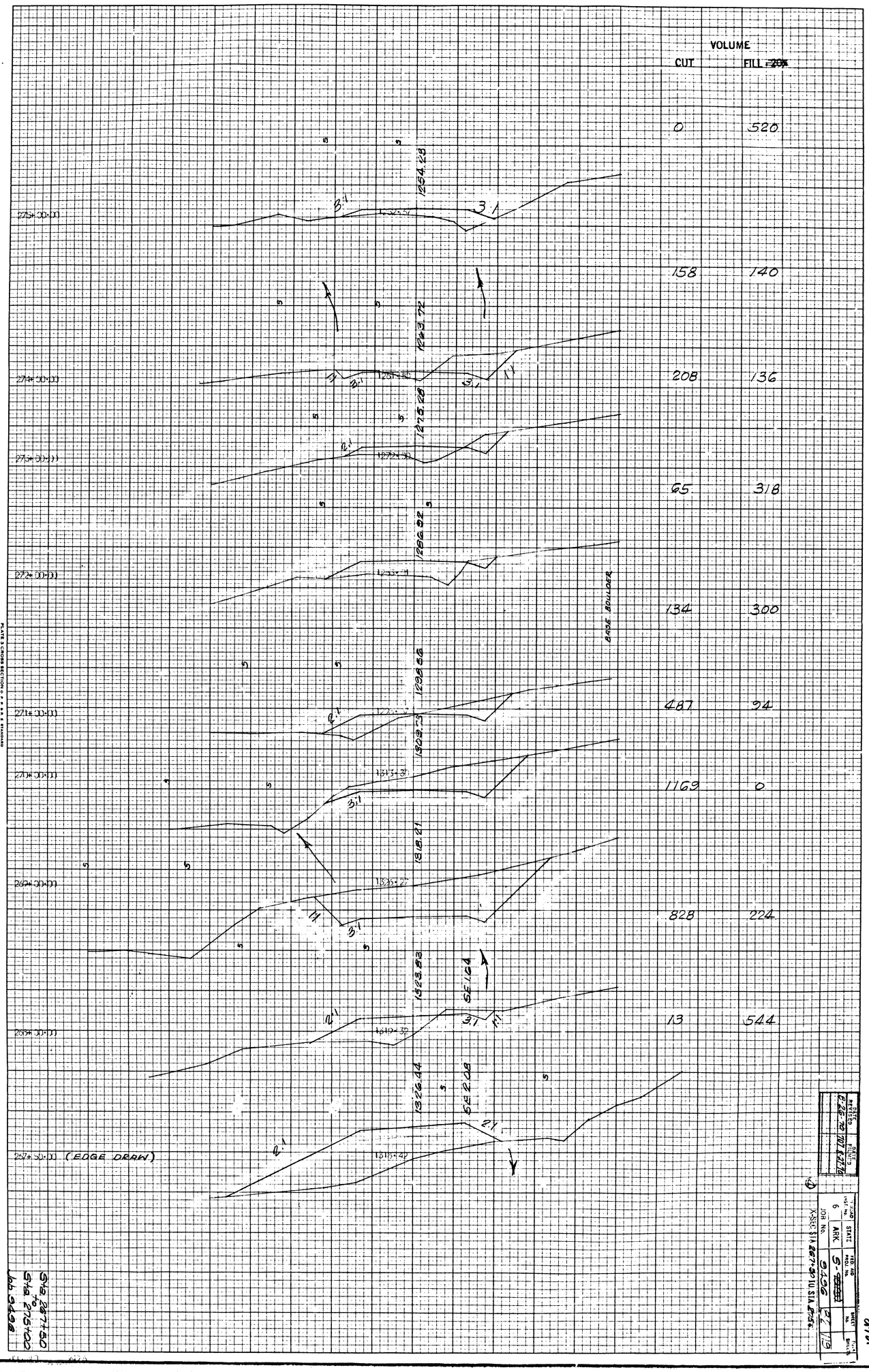


PLATE 3 CROSS SECTION O. F. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.


241
DATE REVISED
DATE FILMED
2-26-70
8-27-70
FED. ROAD DIST. No.
STATE
FED. AID PROJ. No.
SHEET No.
TOTAL SHEETS
6
ARK.
S-
JOB No.
9496
X-SEC STA 261+ TO STA 267+
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
VOLUME
CUT
FILL
712
561
55
106
82
115
265
5
288
15
329
559
404
689
195
SE 208
SE 112
SE 009
SE 094
SE 116
SE 208
SE 208
SE 208
1327.22
1329.05
1334.27
1338.49
1344.71
1347.52
1349.92
1355.15
1360.37
FL 1312.2
1313.8
1322.8
1333.6
DIKE
FL 1343.5
2:1
1:1
3:1
Sta. 267+35 - Const.
54" x 102' Pipe Culvt.
Sta. 263+50 - Const.
24" x 38' Pipe Culvt.
267+35 (F.L. Draw)
267+09
266+75 (Edge Draw)
Sta. 261+00
to
Sta. 267+00
Job 9496
PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO

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

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



VOLUME CUT	FILL ~~20%~~
0	520
158	140
208	136
65	318
134	300
487	94
1169	0
828	224
13	544

DATE REVISED	DATE FILMED
8-26-70	707 8-27-70

FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6		
ARK.	S-[illegible]	
JOB No.	9496	P2 / 19

X-SEC STA 267+50 TO STA 275+00

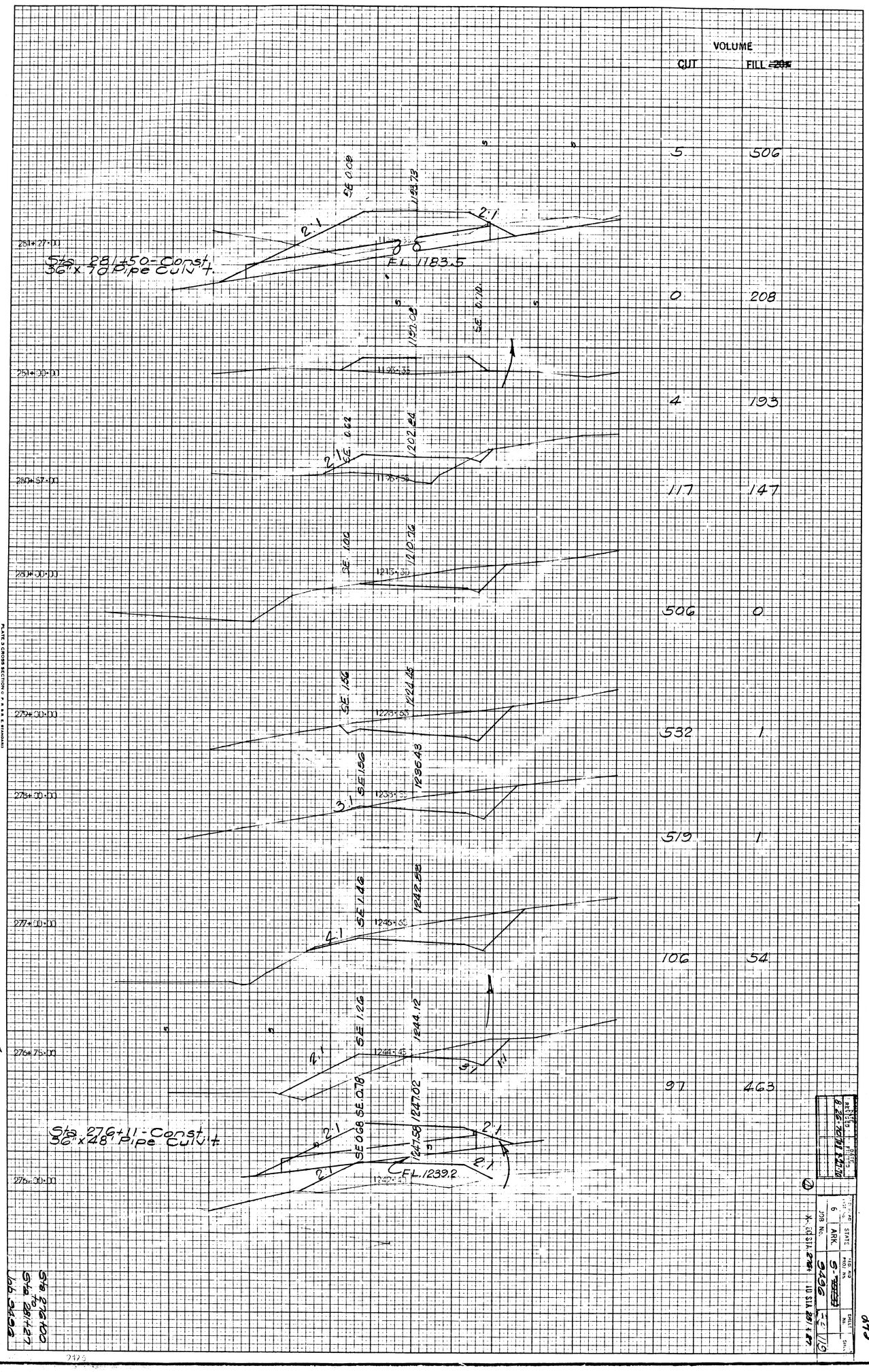
Sta 267+50 to Sta 275+00 Job 9496

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

242

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

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



VOLUME CUT	VOLUME FILL ~~20%~~
5	506
0	208
4	193
117	147
506	0
532	1
519	1
106	54
97	463

Sta. 276+00 to Sta. 281+27 Job 9496

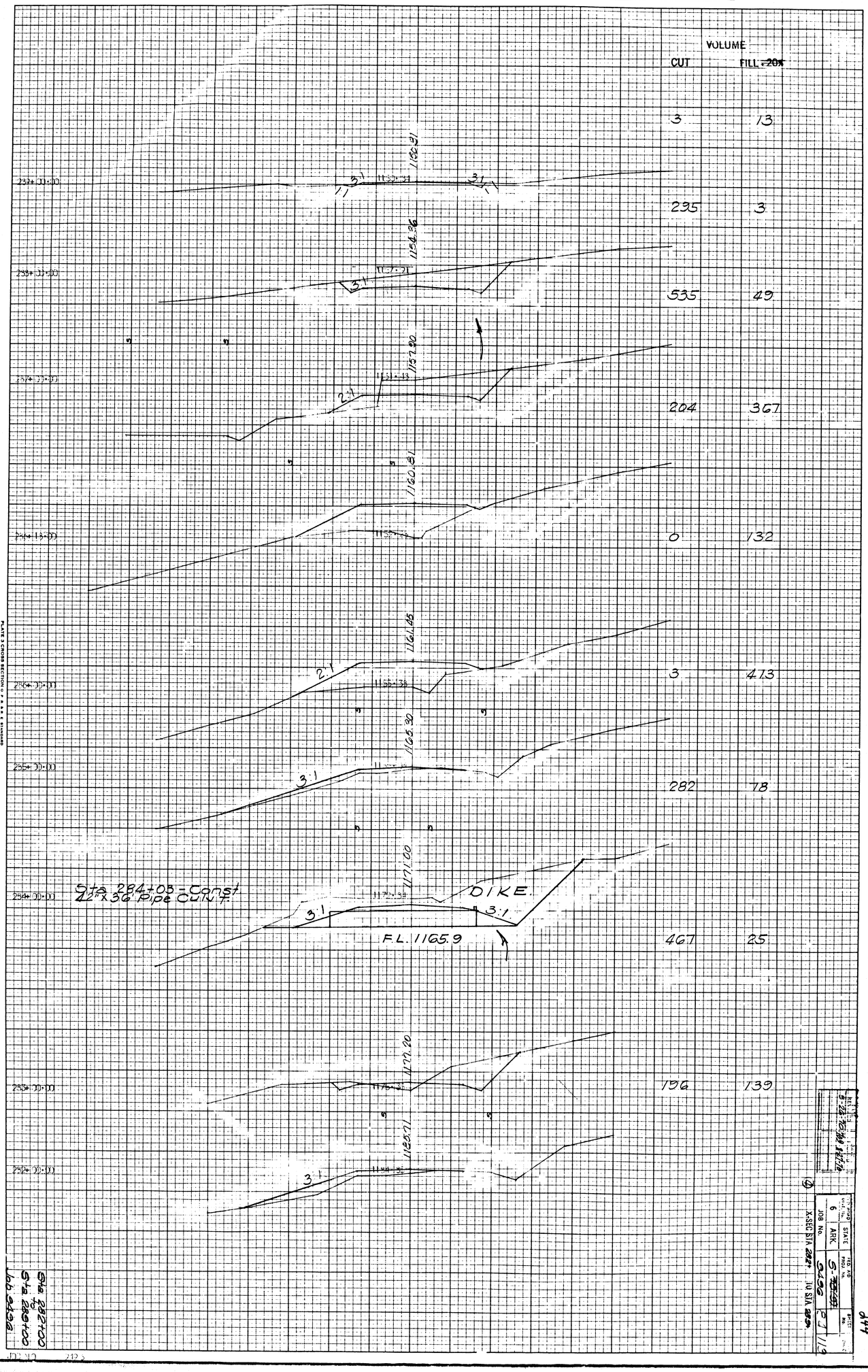
PLATE 3 CROSS SECTION O. P. & R. E. STANDARD
EUGENE DIETZGEN CO.

STATE	FED. RD. PROJ. NO.	SHEET NO.
ARK.	S-[illegible]	119
JOB No. 9496		

243

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

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



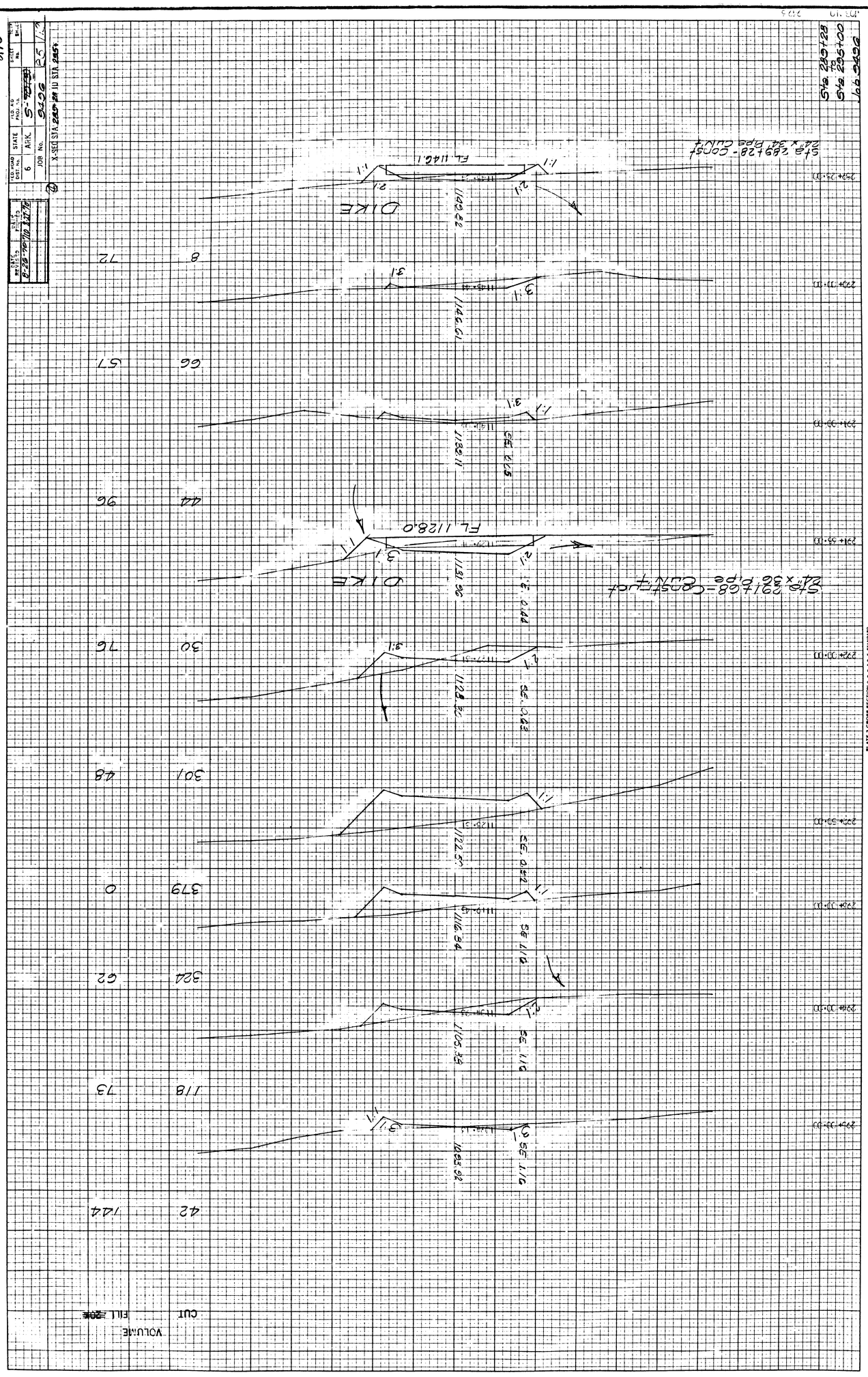
VOLUME CUT	VOLUME FILL ~~-20%~~
3	13
295	3
535	49
204	367
0	132
3	473
282	78
467	25
196	139

Sta 282+00 to Sta 289+00 Job 9496

STATE	FED. AID PROJ. No.	SHEET No.
ARK.	S-~~[illegible]~~	
JOB No. 6	9496	PJ 119

X-SEC STA 282+ TO STA 289+

244



245
FED. ROAD DIST. NO. 6
STATE ARK.
JOB No. 9496
X-SEC STA. 289+28 TO STA. 295+
Sta. 289+28 to Sta. 295+00 Job 9496
Sta. 289+28 - Const 24" x 34" Pipe Culvert
Sta. 291+68 - Constructed 24" x 36" Pipe Culvert
DIKE
FL. 1146.1
FL. 1128.0
VOLUME
CUT
FILL

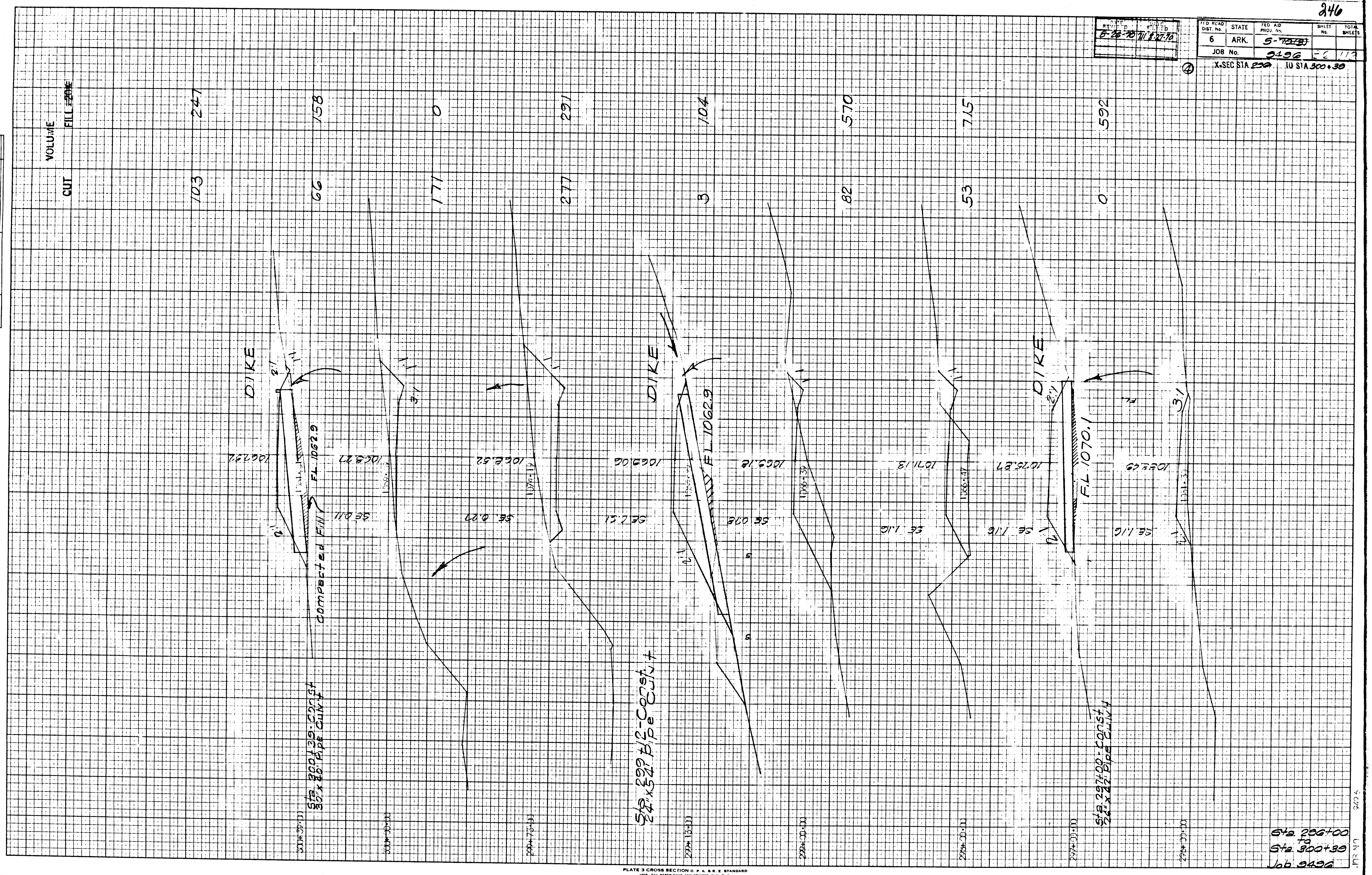


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

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

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

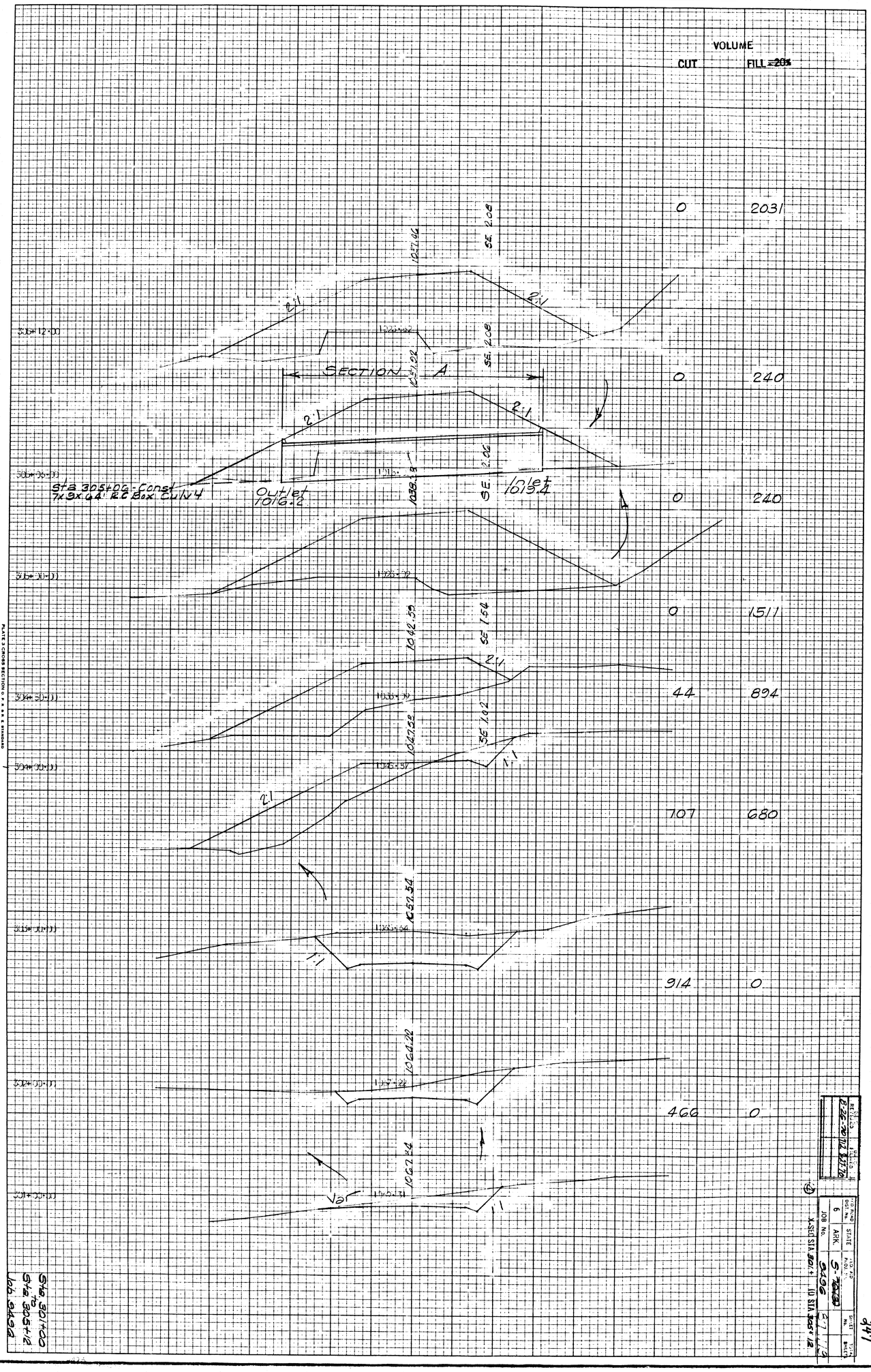


PLATE 3 CROSS SECTION

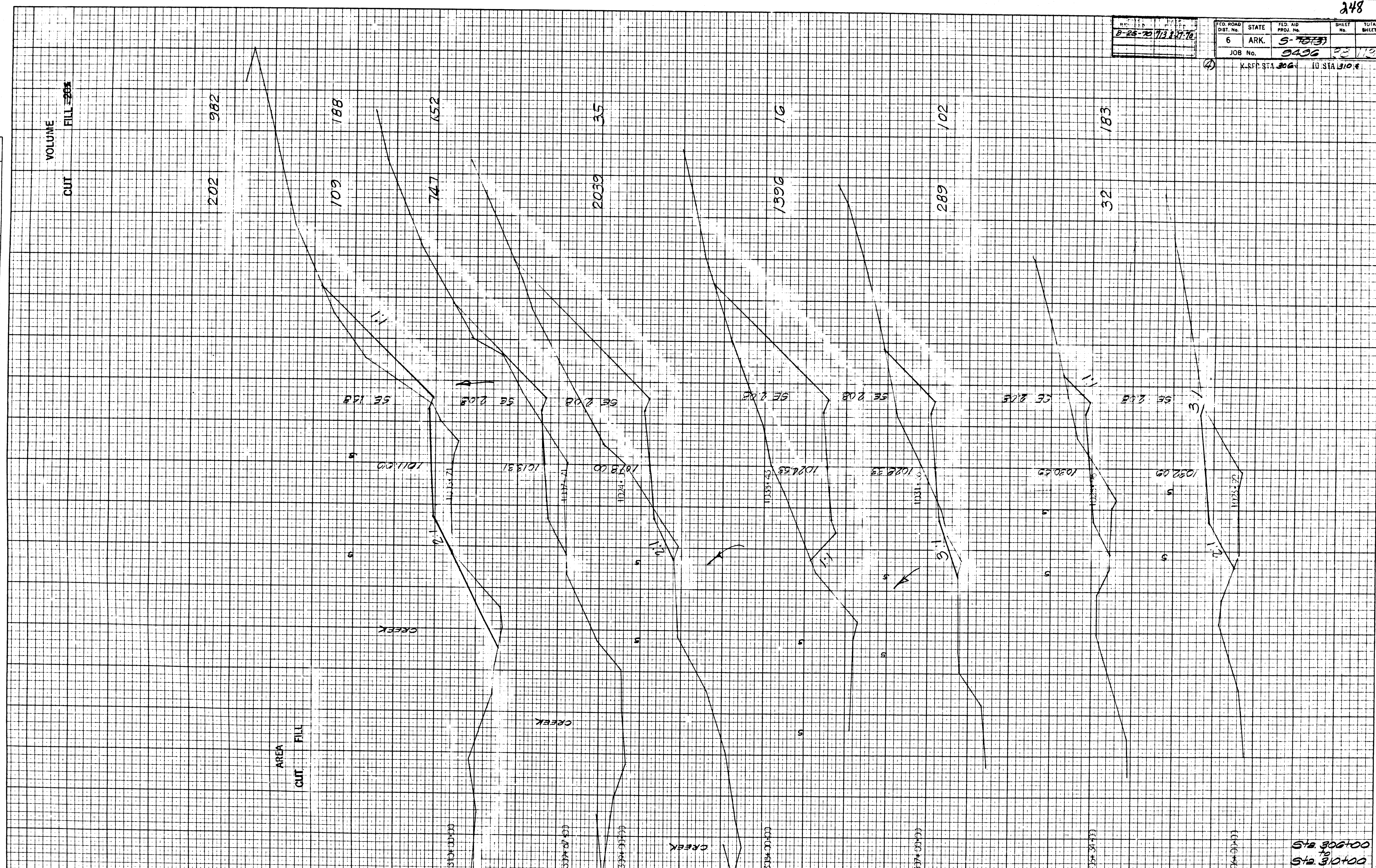
REVISED	DATE	REVISED	DATE
8-26-70	11/2	8-27-70	

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-7[illegible]		
JOB No.	9496			

X-SEC STA 301+ TO STA 305+12

247

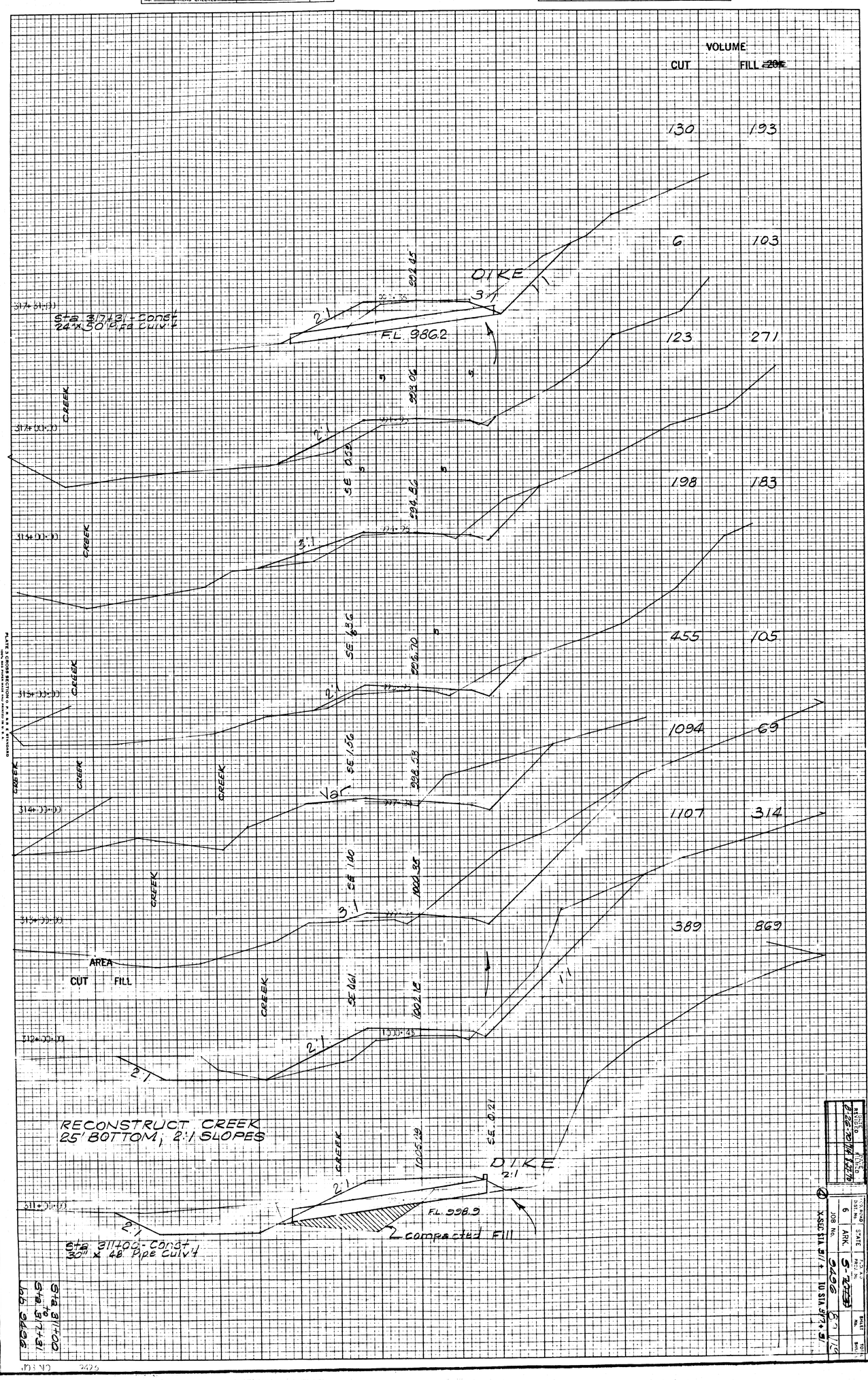
248



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

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

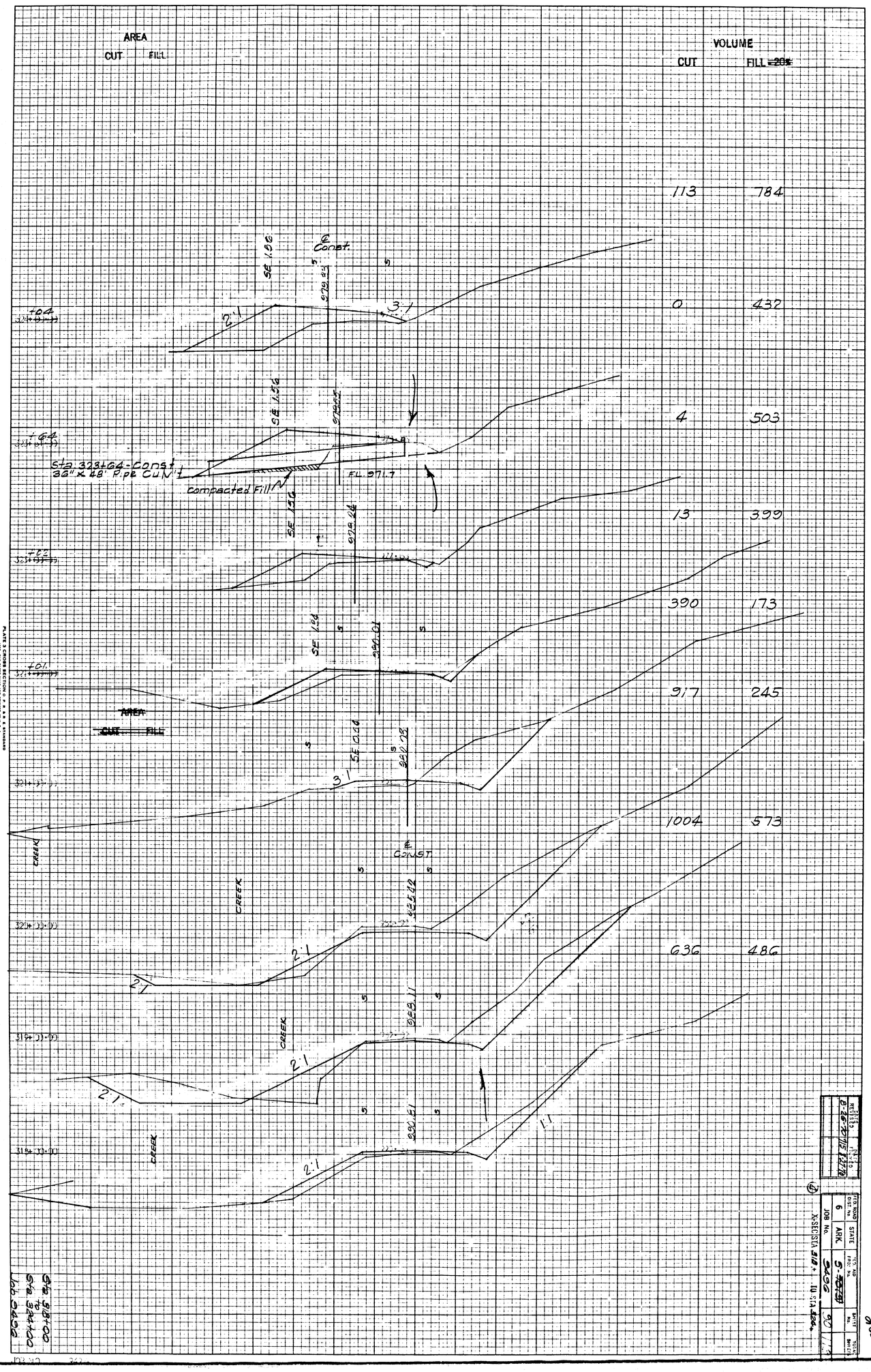
PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.



ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
NOTE BOOK
NO.
FINAL SURVEY
VOLUME
CUT
FILL
130
193
6
103
123
271
198
183
455
105
1094
69
1107
314
389
869
DIKE
3:1
2:1
F.L. 986.2
Sta 317+31 - Const
24" x 50' Pipe Culv't
CREEK
SE 0.59
SE 1.36
SE 1.56
SE 1.40
SE 0.61
SE 0.21
Var
AREA
CUT
FILL
RECONSTRUCT CREEK
25' BOTTOM; 2:1 SLOPES
F.L. 998.9
compacted Fill
Sta 311+00 - Const
30" x 48" Pipe Culv't
Sta 311+00 to Sta 317+31
Job 9496
PLATE 3 CROSS SECTION O. P. & R. & E. STANDARD
EUGENE DIETZGEN CO.
DATE REVISED
8-26-70
STATE
ARK.
JOB No.
9496
X-SEC STA 311+ TO STA 317+31
249

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

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

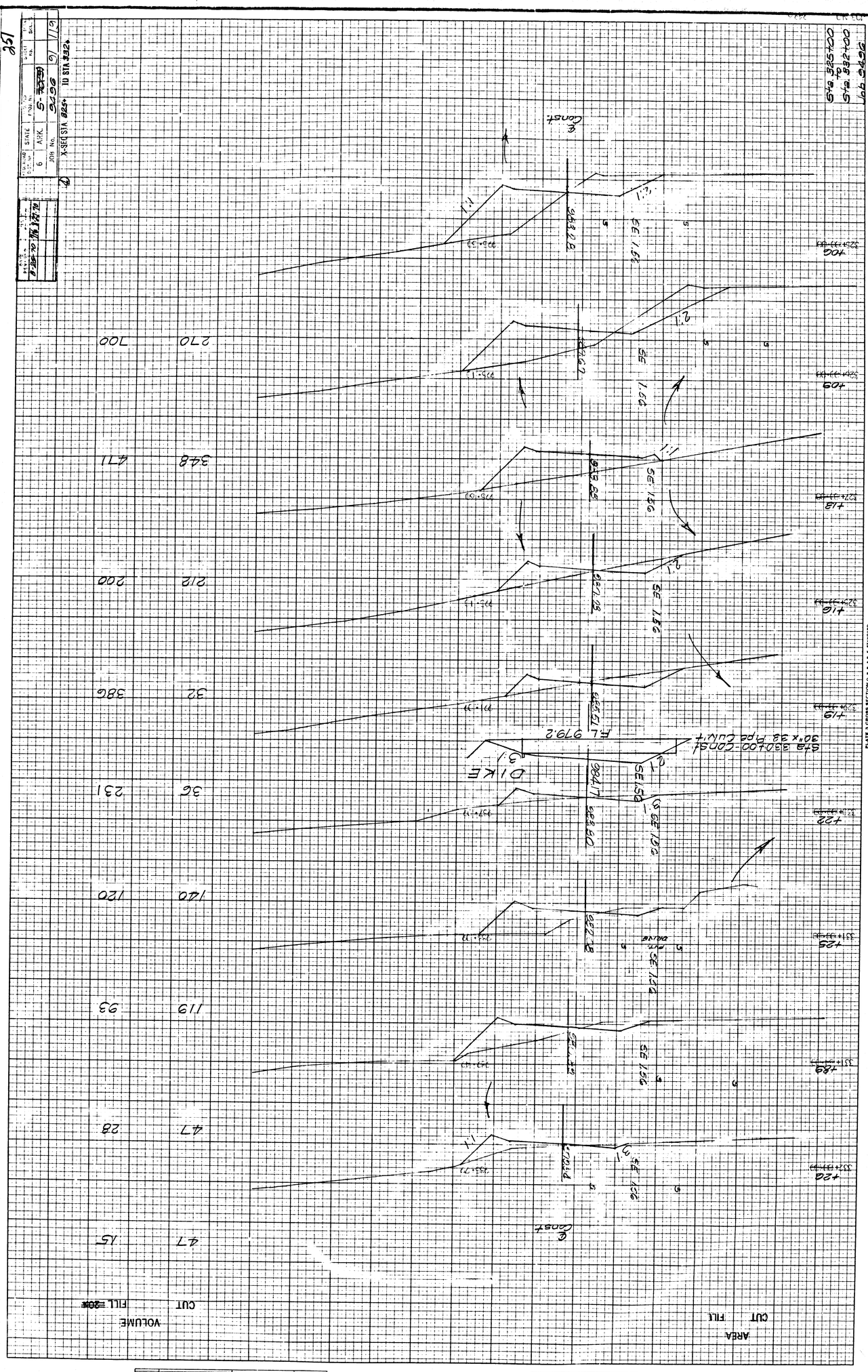


REVISED	DATE
8-26-70	15 8-27-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-[illegible]		
JOB No.	9496		90	

X-SEC STA 318+ TO STA 324+

250



Sta. 325+00 to Sta. 332+00
Job 9496
X-SEC STA 325+ TO STA 332+
DIKE
Sta 330+00-Const
30"x38 Pipe Culvert
F.L. 979.2
VOLUME
CUT
FILL
AREA
CUT
FILL

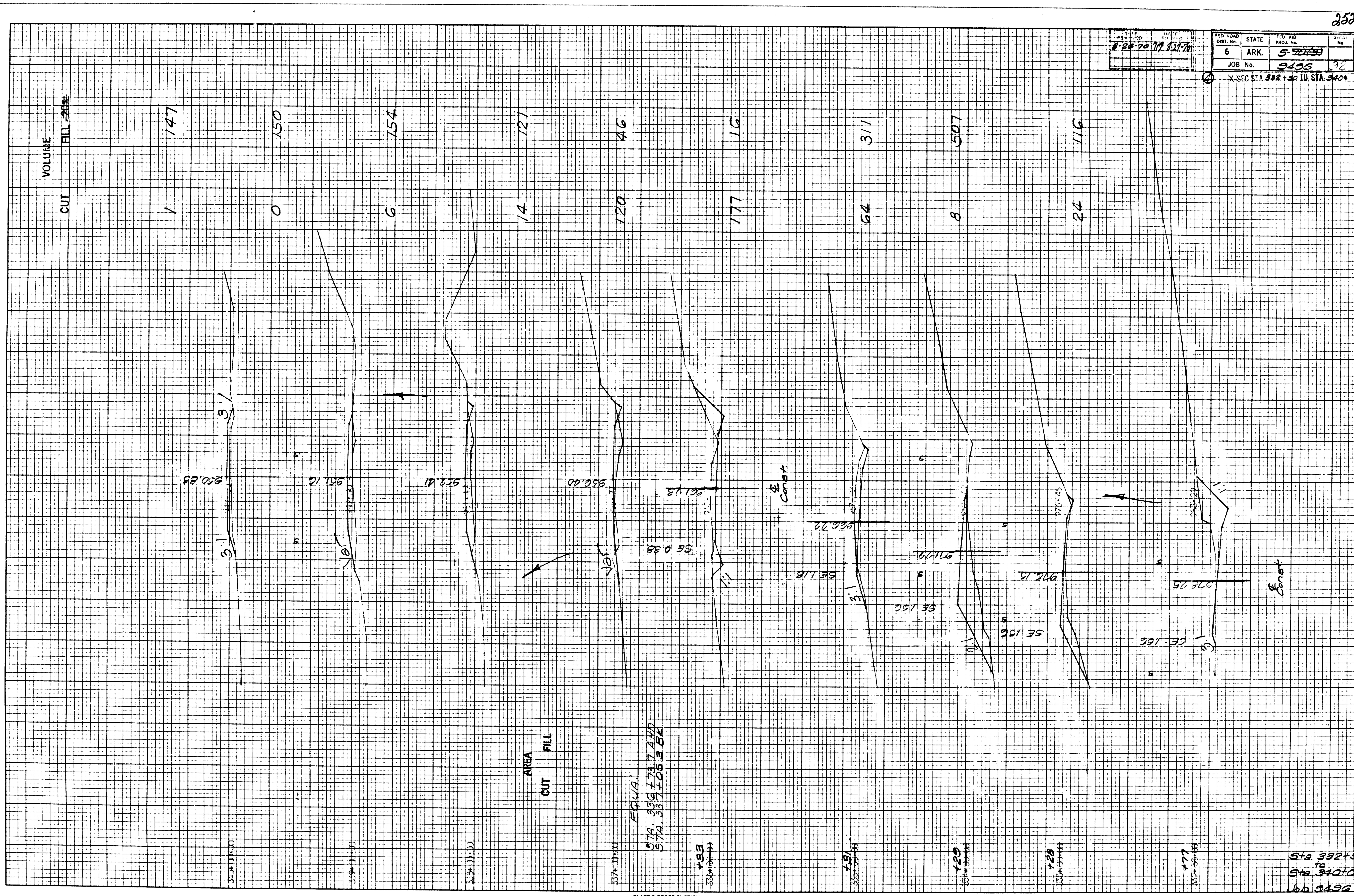
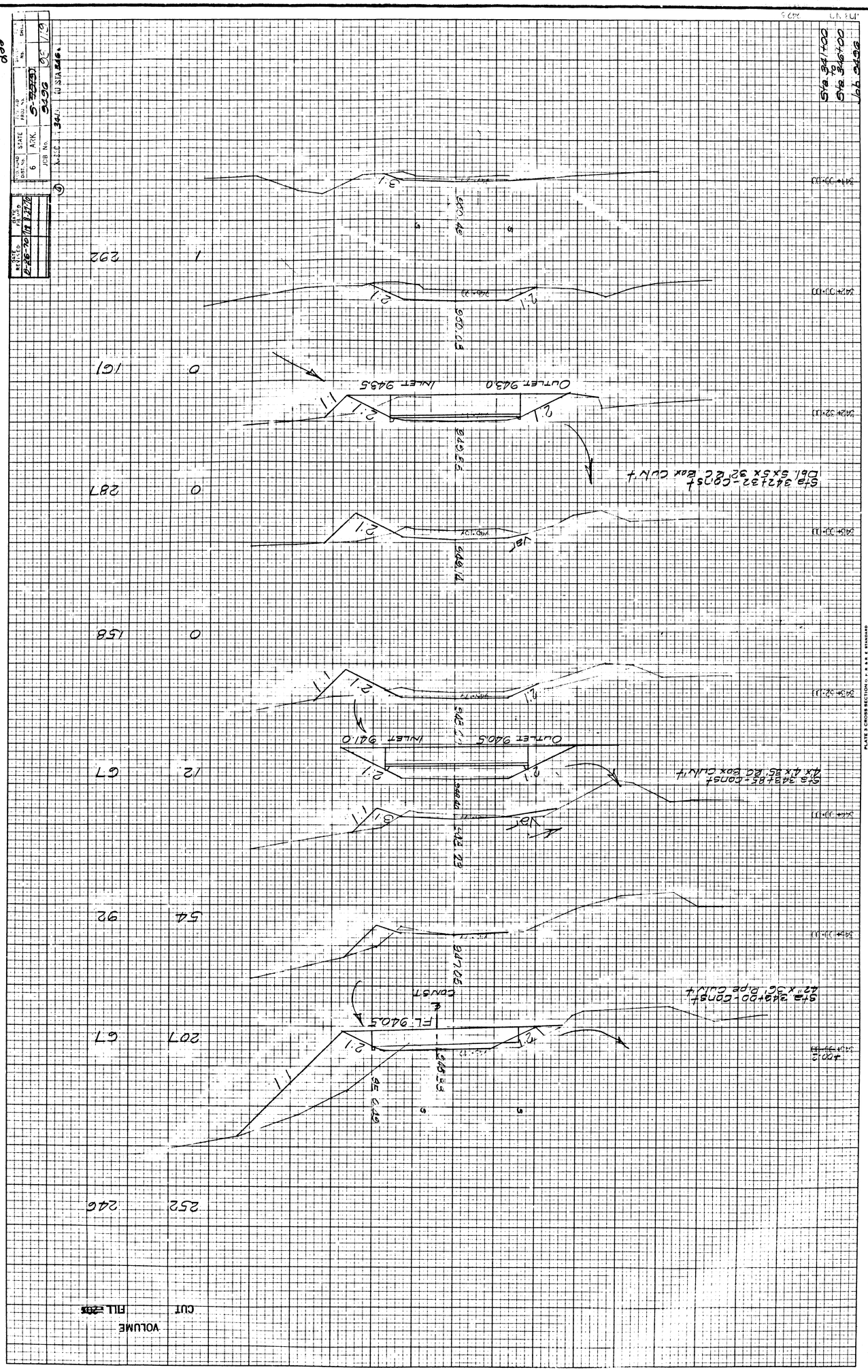


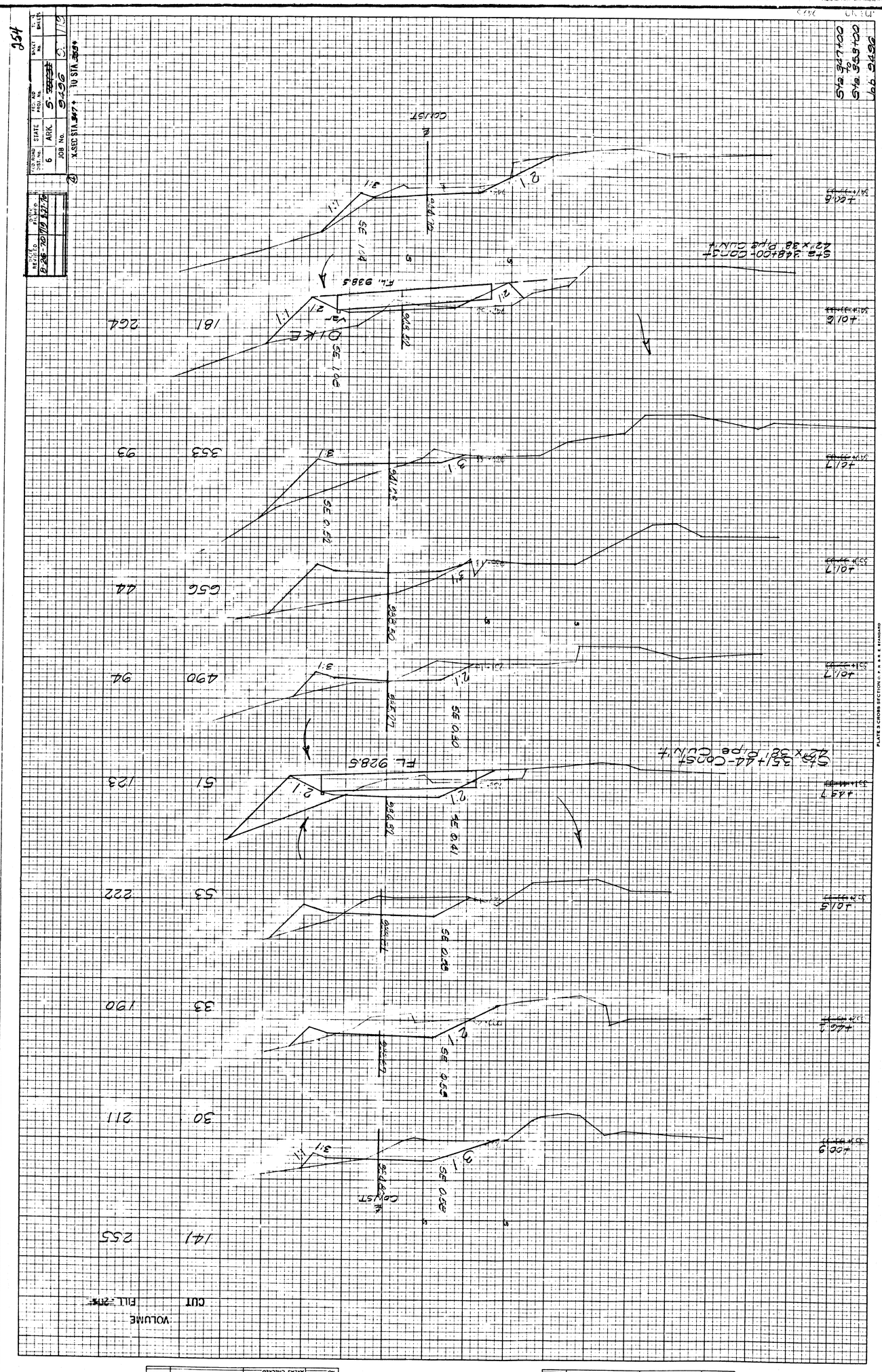
PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

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

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



Sta. 341+00 to Sta. 346+00 Job 9496
Sta. 342+32 - Const Dbl. 5x5x32' RC Box Culv't
Sta. 343+85 - Const 4x4x35' RC Box Culv't
Sta. 344+00 - Const 42" x 36' Pipe Culv't
INLET 943.5
OUTLET 943.0
INLET 941.0
OUTLET 940.5
FL 940.5
CONST
VOLUME
CUT
FILL



FED. ROAD DIST. No. 6	STATE ARK.	FED. AID PROJ. No. S-[illegible]	SHEET No.
JOB No. 9496			

X-SEC STA. 347+ TO STA. 353+

DATE REVISED 8-26-70	DATE FILMED 8-27-70		

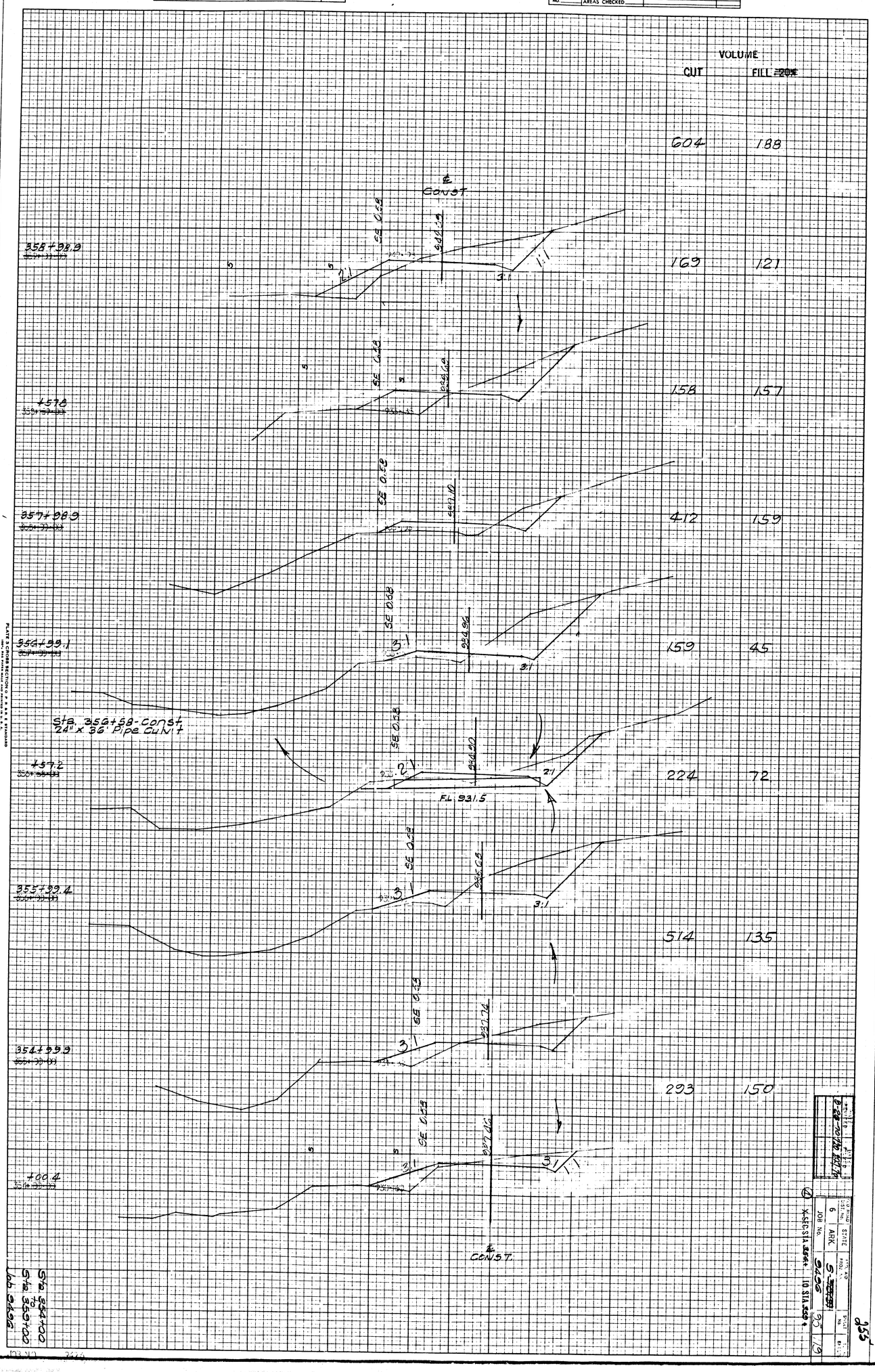
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

PLATE 3 CROSS SECTION

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

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

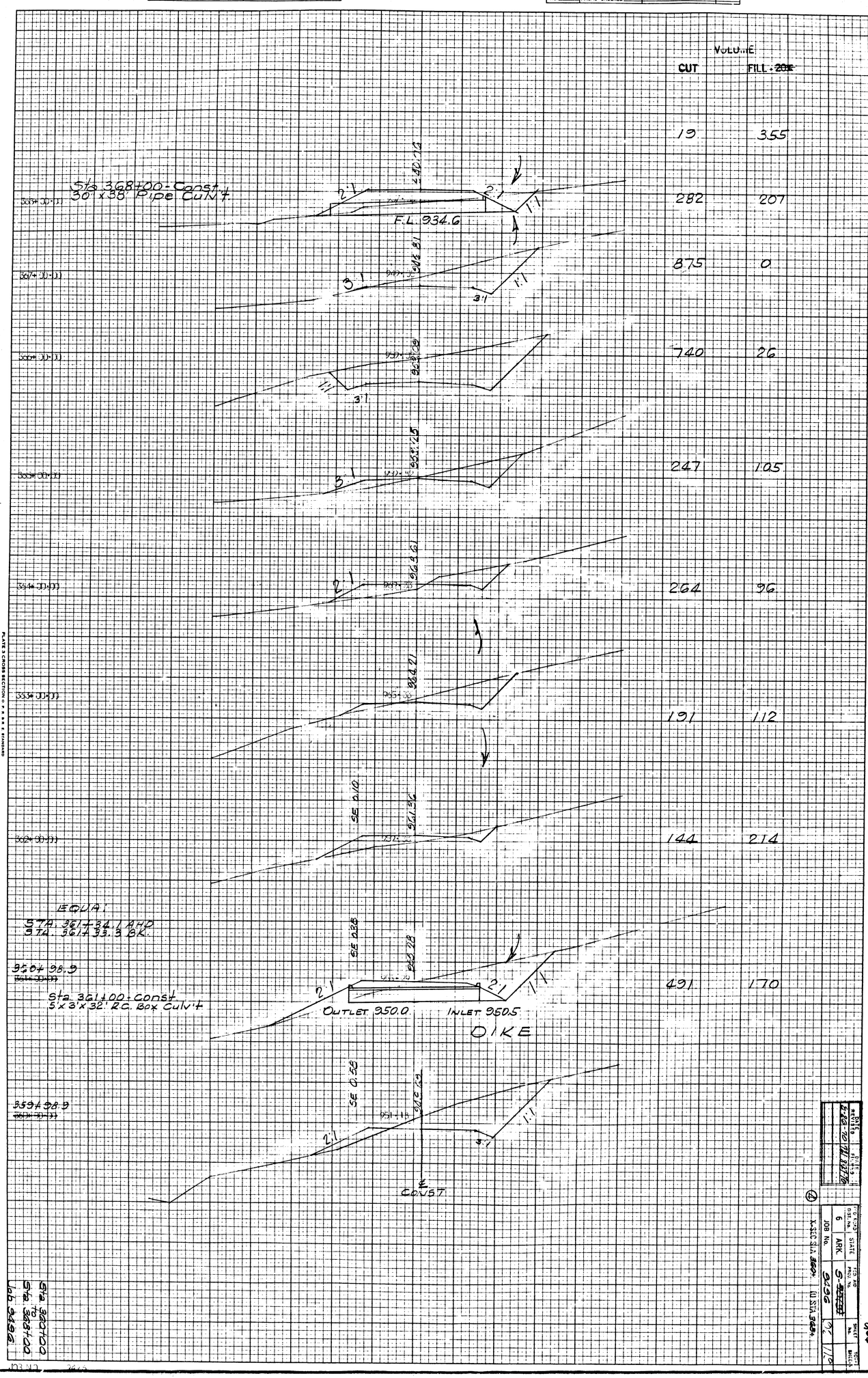


6	ARK.	5-[illegible]	
JOB No.		9496	95 / 19

255

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

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



VOLUME CUT	FILL ~~20%~~
19	355
282	207
875	0
740	26
247	105
264	96
191	112
144	214
491	170

Sta. 360+00 to Sta. 368+00 Job 9496

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

DATE REVISED	DATE FILMED
8-26-70	7-27-70

CO. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~		
JOB No.		9496	96	110

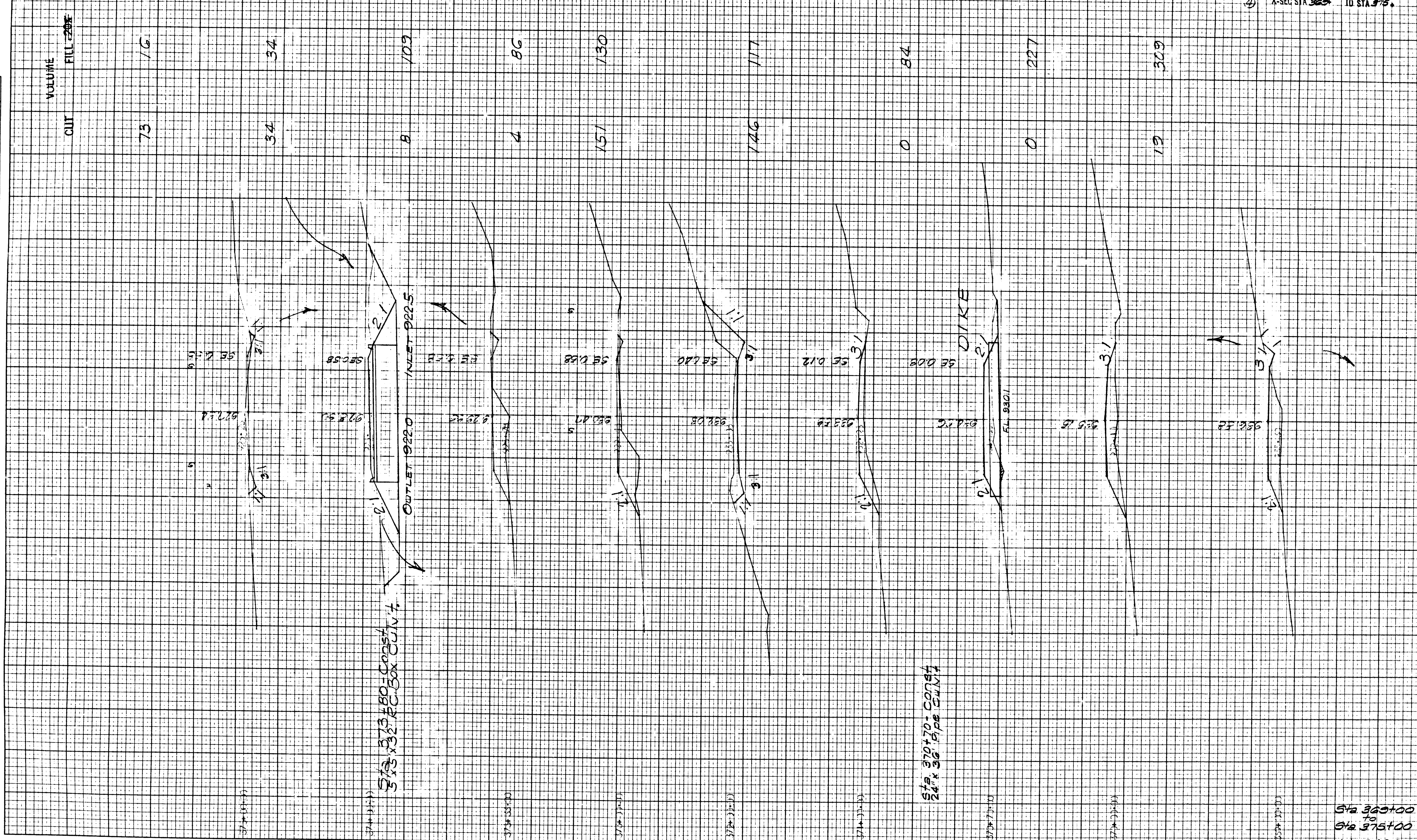
X-SEC STA 360+ TO STA 368+

256

DATE REVISED	DATE
8-26-70	22 8-27-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	5-		
	JOB No.	9496	97	119

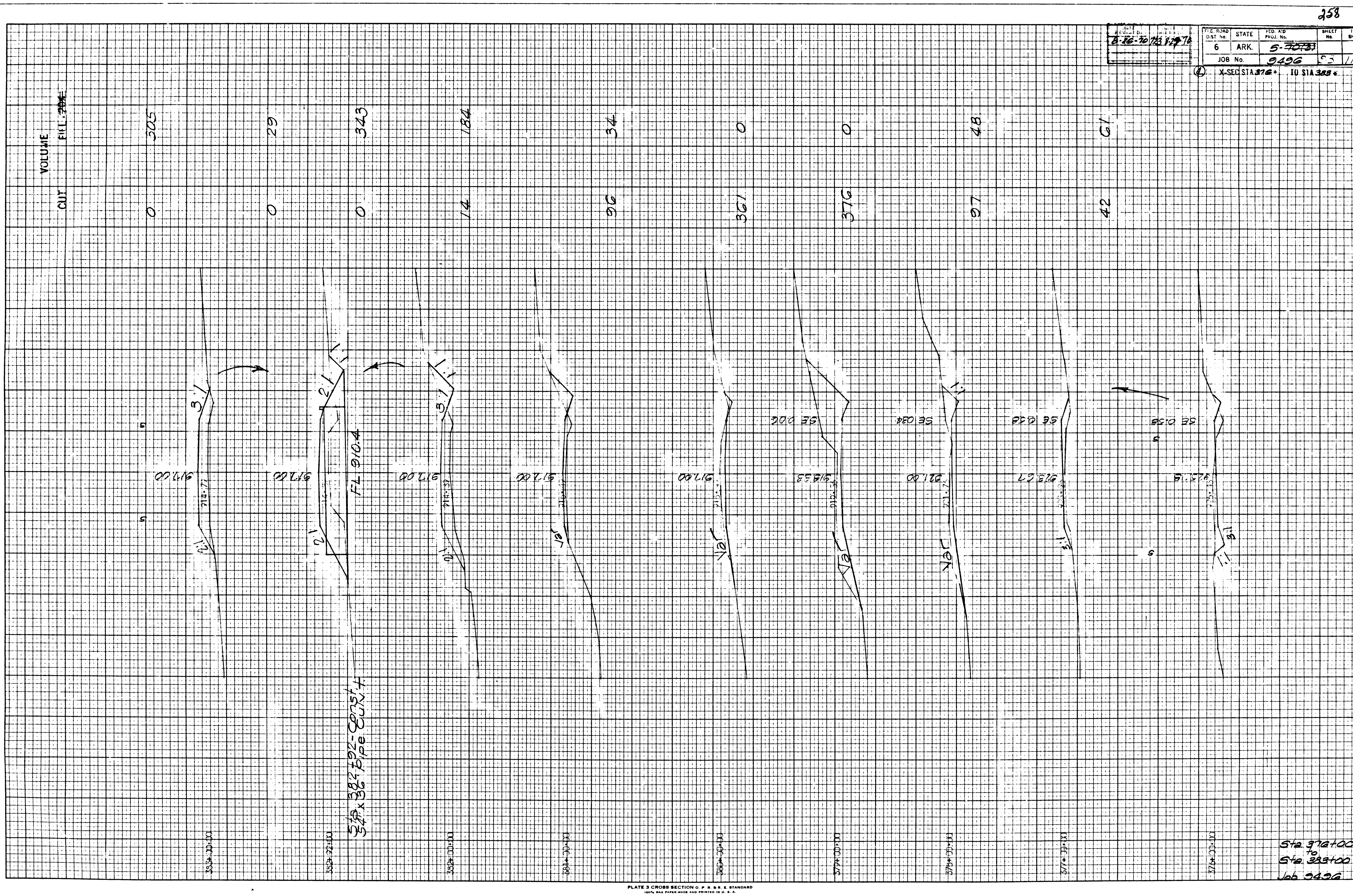
X-SEC STA 369 TO STA 375



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

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

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



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

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

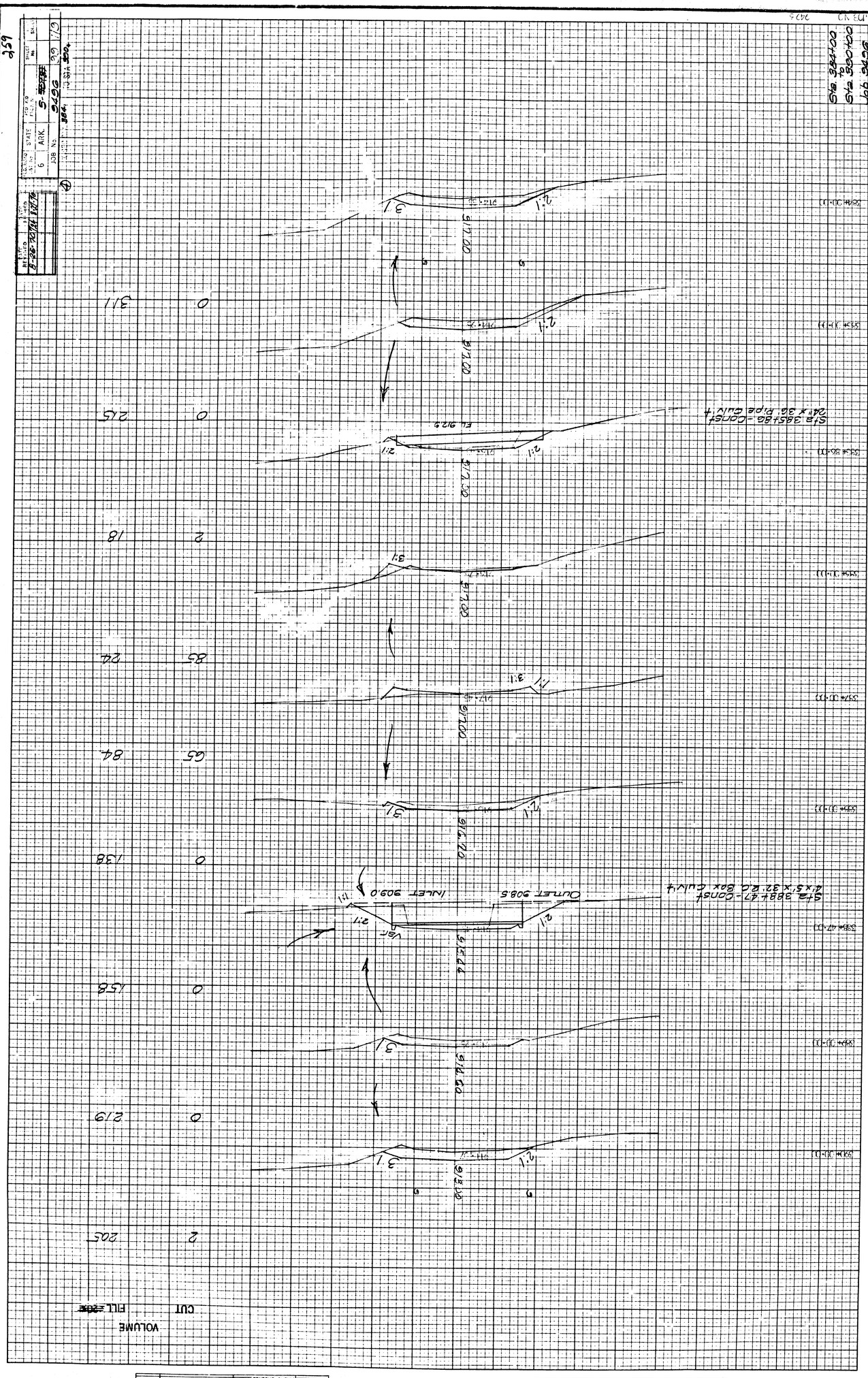


PLATE 8 CROSS SECTION
EUGENE DIETZGEN CO.

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

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

REVISIONS			

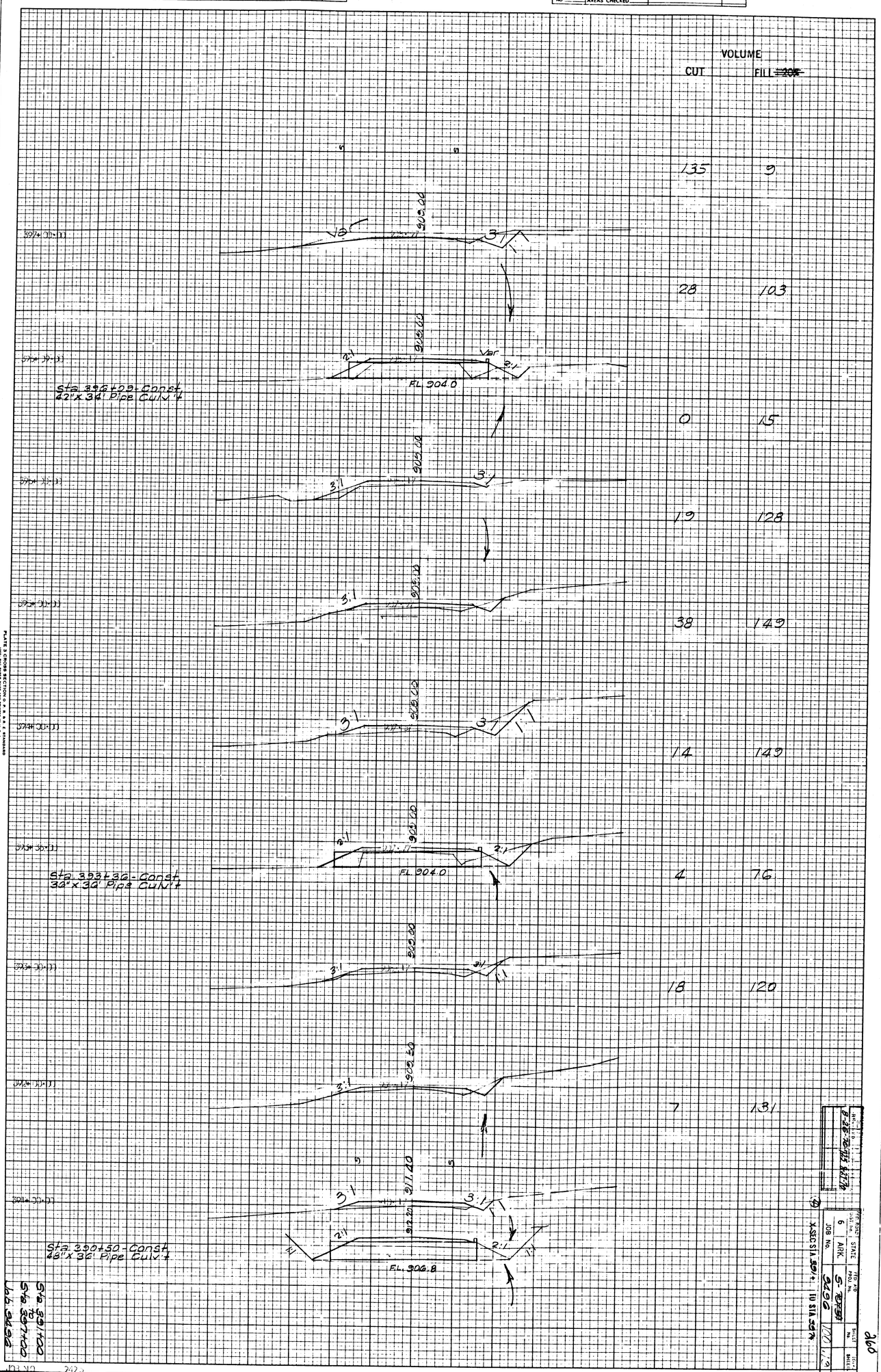
REVISED	BY	DATE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
ARK.	S-[illegible]	39	61
JOB NO. 8606			

659

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

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



VOLUME CUT	VOLUME FILL ~~20%~~
135	9
28	103
0	15
19	128
38	149
14	149
4	76
18	120
7	131

Sta 391+00 to Sta 397+00
Job 9496

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

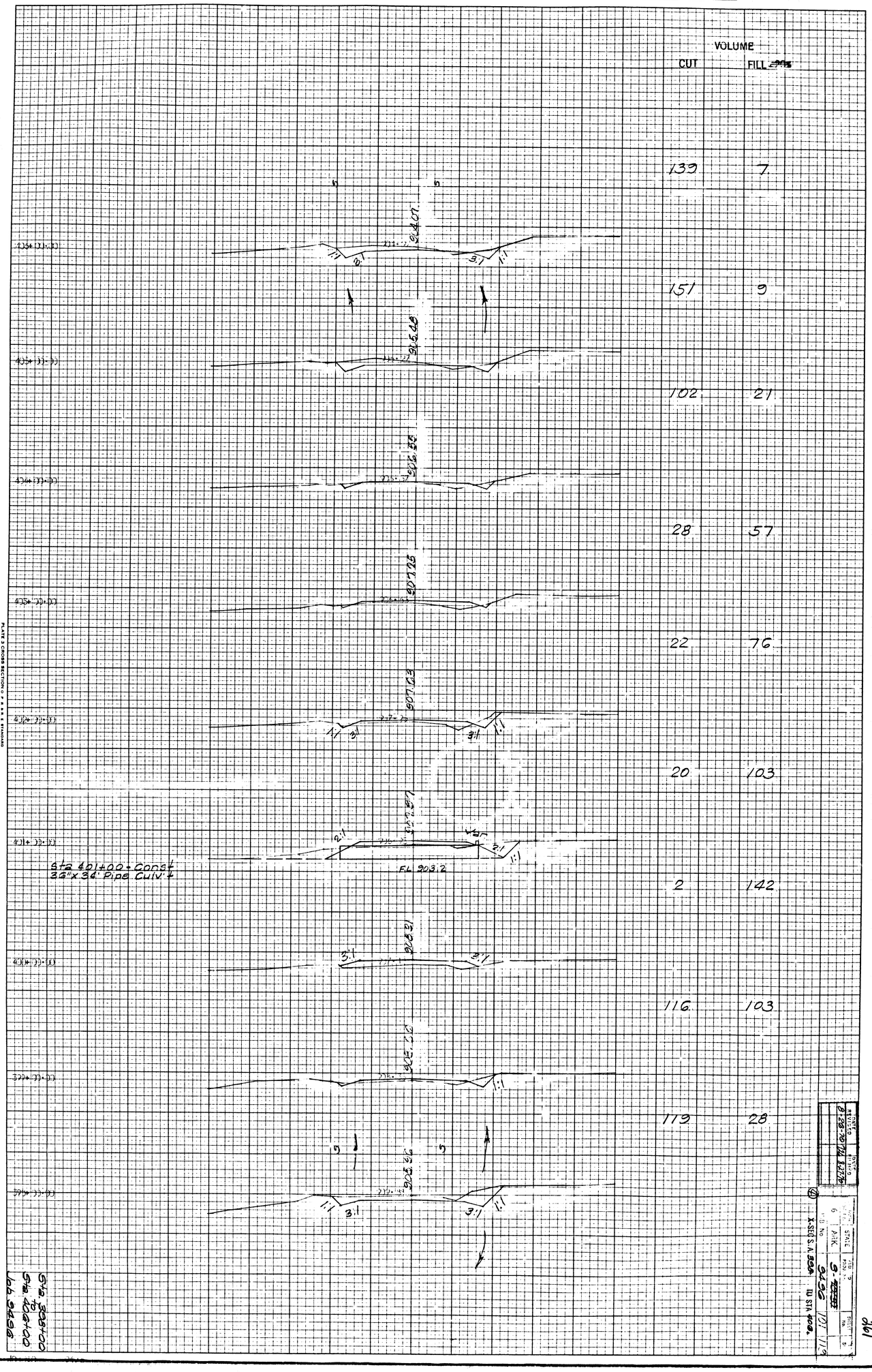
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~	100	119
JOB No.		9496		

X-SEC STA 391+ TO STA 397+

260

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

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



VOLUME CUT	VOLUME FILL
139	7
151	9
102	21
28	57
22	76
20	103
2	142
116	103
119	28

Sta 398+00 to Sta 406+00 Job 9496

DATE REVISED	DATE FILMED
8-28-70	8-27-70

STATE	FED. RD. DIV.	PROJ. NO.	SHEET NO.
ARK.	9-[illegible]		
P.B. No.	9496	101	119

X-SEC S.A. 398+ TO STA 406+

PLATE 3 CROSS SECTION O. P. & R. & E. STANDARD
100% RAG PAPER 4 ON AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

261

262

DATE REVISED	DATE FILMED
8-26-70	727 8-27-70

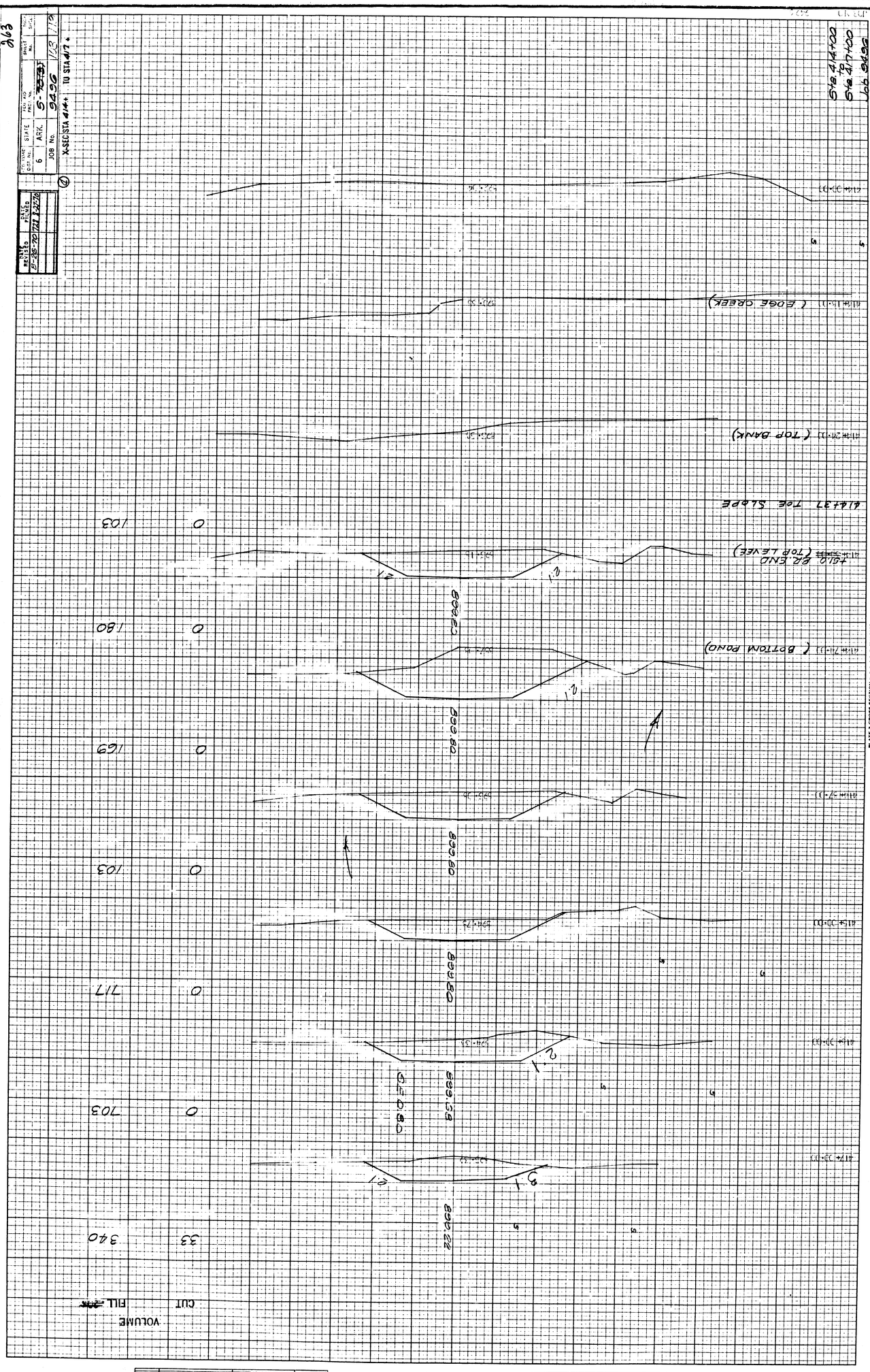
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~7013~~		
JOB No.		9496	102	119

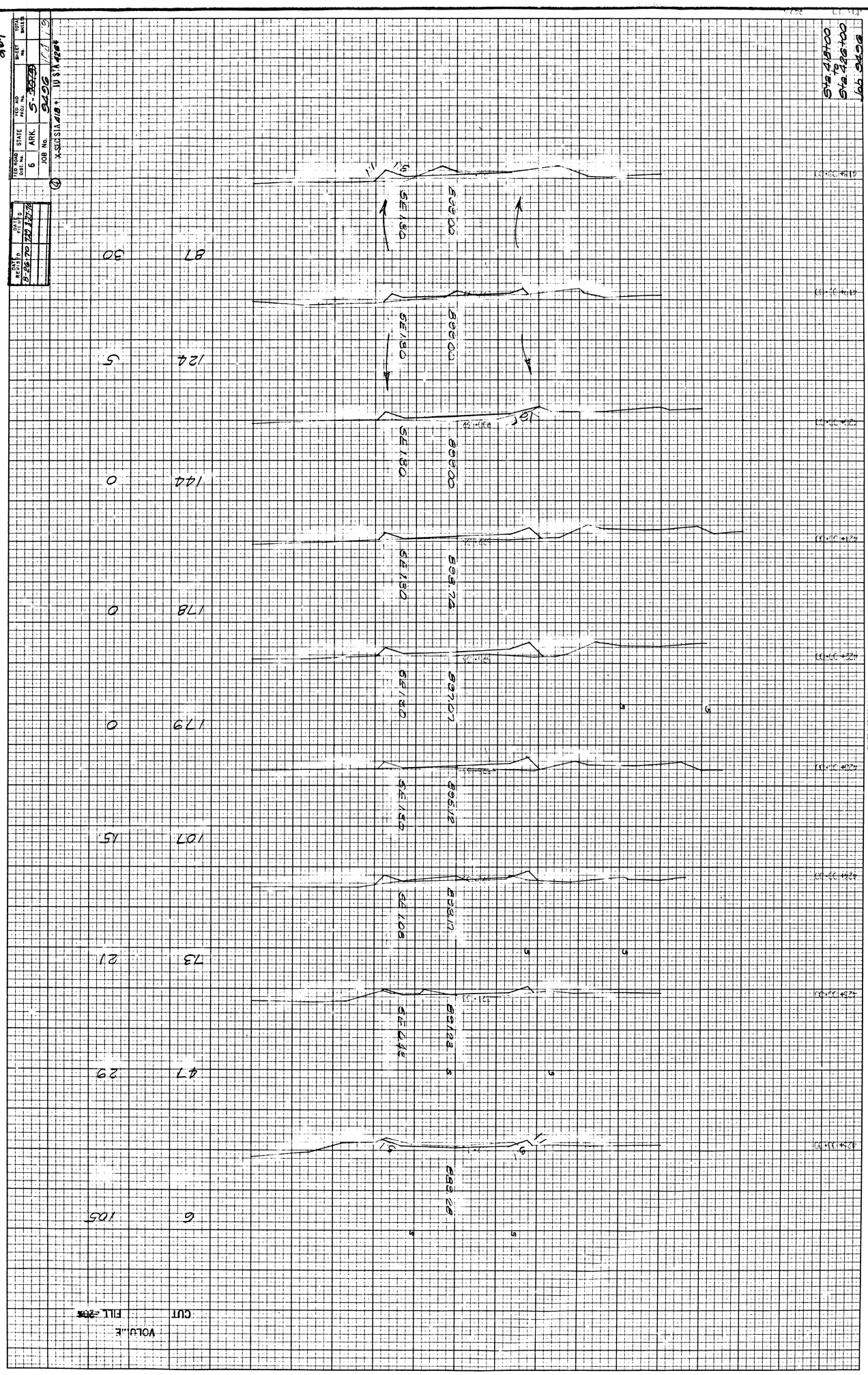
④ X-SEC STA 407+ TO STA 413+59

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

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

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


PROJECT CST. NO. 6
STATE ARK.
FED. AID PROJ. NO. S-7238
SHEET NO. 9
TOTAL SHEETS 9
JOB NO. 9456
X-SEC STA 414+ TO STA 417+
DATE REVISED 8-28-70
DATE FILED 1-22-70
Sta. 414+00
Sta. 417+00
Job 9456
ELEV. 300.00
ELEV. 299.00
ELEV. 298.00
ELEV. 297.00
ELEV. 296.00
ELEV. 295.00
ELEV. 294.00
ELEV. 293.00
ELEV. 292.00
ELEV. 291.00
ELEV. 290.00
ELEV. 289.00
ELEV. 288.00
ELEV. 287.00
ELEV. 286.00
ELEV. 285.00
ELEV. 284.00
ELEV. 283.00
ELEV. 282.00
ELEV. 281.00
ELEV. 280.00
ELEV. 279.00
ELEV. 278.00
ELEV. 277.00
ELEV. 276.00
ELEV. 275.00
ELEV. 274.00
ELEV. 273.00
ELEV. 272.00
ELEV. 271.00
ELEV. 270.00
ELEV. 269.00
ELEV. 268.00
ELEV. 267.00
ELEV. 266.00
ELEV. 265.00
ELEV. 264.00
ELEV. 263.00
ELEV. 262.00
ELEV. 261.00
ELEV. 260.00
ELEV. 259.00
ELEV. 258.00
ELEV. 257.00
ELEV. 256.00
ELEV. 255.00
ELEV. 254.00
ELEV. 253.00
ELEV. 252.00
ELEV. 251.00
ELEV. 250.00
ELEV. 249.00
ELEV. 248.00
ELEV. 247.00
ELEV. 246.00
ELEV. 245.00
ELEV. 244.00
ELEV. 243.00
ELEV. 242.00
ELEV. 241.00
ELEV. 240.00
ELEV. 239.00
ELEV. 238.00
ELEV. 237.00
ELEV. 236.00
ELEV. 235.00
ELEV. 234.00
ELEV. 233.00
ELEV. 232.00
ELEV. 231.00
ELEV. 230.00
ELEV. 229.00
ELEV. 228.00
ELEV. 227.00
ELEV. 226.00
ELEV. 225.00
ELEV. 224.00
ELEV. 223.00
ELEV. 222.00
ELEV. 221.00
ELEV. 220.00
ELEV. 219.00
ELEV. 218.00
ELEV. 217.00
ELEV. 216.00
ELEV. 215.00
ELEV. 214.00
ELEV. 213.00
ELEV. 212.00
ELEV. 211.00
ELEV. 210.00
ELEV. 209.00
ELEV. 208.00
ELEV. 207.00
ELEV. 206.00
ELEV. 205.00
ELEV. 204.00
ELEV. 203.00
ELEV. 202.00
ELEV. 201.00
ELEV. 200.00
ELEV. 199.00
ELEV. 198.00
ELEV. 197.00
ELEV. 196.00
ELEV. 195.00
ELEV. 194.00
ELEV. 193.00
ELEV. 192.00
ELEV. 191.00
ELEV. 190.00
ELEV. 189.00
ELEV. 188.00
ELEV. 187.00
ELEV. 186.00
ELEV. 185.00
ELEV. 184.00
ELEV. 183.00
ELEV. 182.00
ELEV. 181.00
ELEV. 180.00
ELEV. 179.00
ELEV. 178.00
ELEV. 177.00
ELEV. 176.00
ELEV. 175.00
ELEV. 174.00
ELEV. 173.00
ELEV. 172.00
ELEV. 171.00
ELEV. 170.00
ELEV. 169.00
ELEV. 168.00
ELEV. 167.00
ELEV. 166.00
ELEV. 165.00
ELEV. 164.00
ELEV. 163.00
ELEV. 162.00
ELEV. 161.00
ELEV. 160.00
ELEV. 159.00
ELEV. 158.00
ELEV. 157.00
ELEV. 156.00
ELEV. 155.00
ELEV. 154.00
ELEV. 153.00
ELEV. 152.00
ELEV. 151.00
ELEV. 150.00
ELEV. 149.00
ELEV. 148.00
ELEV. 147.00
ELEV. 146.00
ELEV. 145.00
ELEV. 144.00
ELEV. 143.00
ELEV. 142.00
ELEV. 141.00
ELEV. 140.00
ELEV. 139.00
ELEV. 138.00
ELEV. 137.00
ELEV. 136.00
ELEV. 135.00
ELEV. 134.00
ELEV. 133.00
ELEV. 132.00
ELEV. 131.00
ELEV. 130.00
ELEV. 129.00
ELEV. 128.00
ELEV. 127.00
ELEV. 126.00
ELEV. 125.00
ELEV. 124.00
ELEV. 123.00
ELEV. 122.00
ELEV. 121.00
ELEV. 120.00
ELEV. 119.00
ELEV. 118.00
ELEV. 117.00
ELEV. 116.00
ELEV. 115.00
ELEV. 114.00
ELEV. 113.00
ELEV. 112.00
ELEV. 111.00
ELEV. 110.00
ELEV. 109.00
ELEV. 108.00
ELEV. 107.00
ELEV. 106.00
ELEV. 105.00
ELEV. 104.00
ELEV. 103.00
ELEV. 102.00
ELEV. 101.00
ELEV. 100.00
ELEV. 99.00
ELEV. 98.00
ELEV. 97.00
ELEV. 96.00
ELEV. 95.00
ELEV. 94.00
ELEV. 93.00
ELEV. 92.00
ELEV. 91.00
ELEV. 90.00
ELEV. 89.00
ELEV. 88.00
ELEV. 87.00
ELEV. 86.00
ELEV. 85.00
ELEV. 84.00
ELEV. 83.00
ELEV. 82.00
ELEV. 81.00
ELEV. 80.00
ELEV. 79.00
ELEV. 78.00
ELEV. 77.00
ELEV. 76.00
ELEV. 75.00
ELEV. 74.00
ELEV. 73.00
ELEV. 72.00
ELEV. 71.00
ELEV. 70.00
ELEV. 69.00
ELEV. 68.00
ELEV. 67.00
ELEV. 66.00
ELEV. 65.00
ELEV. 64.00
ELEV. 63.00
ELEV. 62.00
ELEV. 61.00
ELEV. 60.00
ELEV. 59.00
ELEV. 58.00
ELEV. 57.00
ELEV. 56.00
ELEV. 55.00
ELEV. 54.00
ELEV. 53.00
ELEV. 52.00
ELEV. 51.00
ELEV. 50.00
ELEV. 49.00
ELEV. 48.00
ELEV. 47.00
ELEV. 46.00
ELEV. 45.00
ELEV. 44.00
ELEV. 43.00
ELEV. 42.00
ELEV. 41.00
ELEV. 40.00
ELEV. 39.00
ELEV. 38.00
ELEV. 37.00
ELEV. 36.00
ELEV. 35.00
ELEV. 34.00
ELEV. 33.00
ELEV. 32.00
ELEV. 31.00
ELEV. 30.00
ELEV. 29.00
ELEV. 28.00
ELEV. 27.00
ELEV. 26.00
ELEV. 25.00
ELEV. 24.00
ELEV. 23.00
ELEV. 22.00
ELEV. 21.00
ELEV. 20.00
ELEV. 19.00
ELEV. 18.00
ELEV. 17.00
ELEV. 16.00
ELEV. 15.00
ELEV. 14.00
ELEV. 13.00
ELEV. 12.00
ELEV. 11.00
ELEV. 10.00
ELEV. 9.00
ELEV. 8.00
ELEV. 7.00
ELEV. 6.00
ELEV. 5.00
ELEV. 4.00
ELEV. 3.00
ELEV. 2.00
ELEV. 1.00
ELEV. 0.00
VOLUME
CUT
FILL
340
33
703
0
717
0
103
0
169
0
103
0
180
0
103
0
PLATE 3 CROSS SECTION
EUGENE DIETZGEN CO.
ORIGINAL SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO
BY
DATE



DATE REVISED	DATE FILMED
8-26-70	7-29-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-[illegible]		
JOB No.	9496			

X-SEC STA 418+ 10 STA 426+

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

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

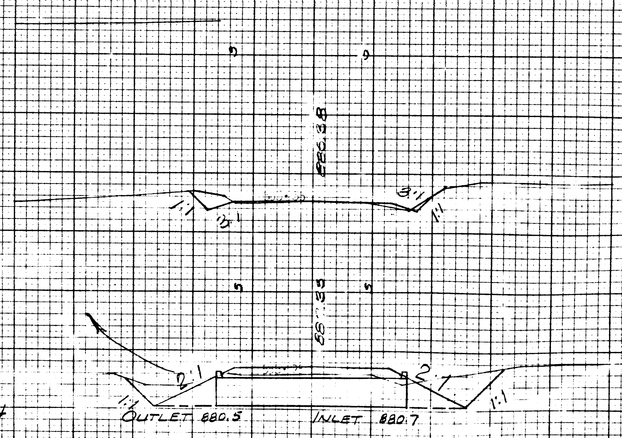
PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
100% RAIL PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

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

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

VOLUME

CUT FILL ~~20%~~



128 9

28 91

Sta 427+00-Const
4'x4'x32' RC box Culv't

Sta 427+00
to
Sta 428+00
Job 9496

DATE REVISED	DATE FILMED
8-26-70	8-27-70

STANDARD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~		
JOB No.		9496	105	1/3

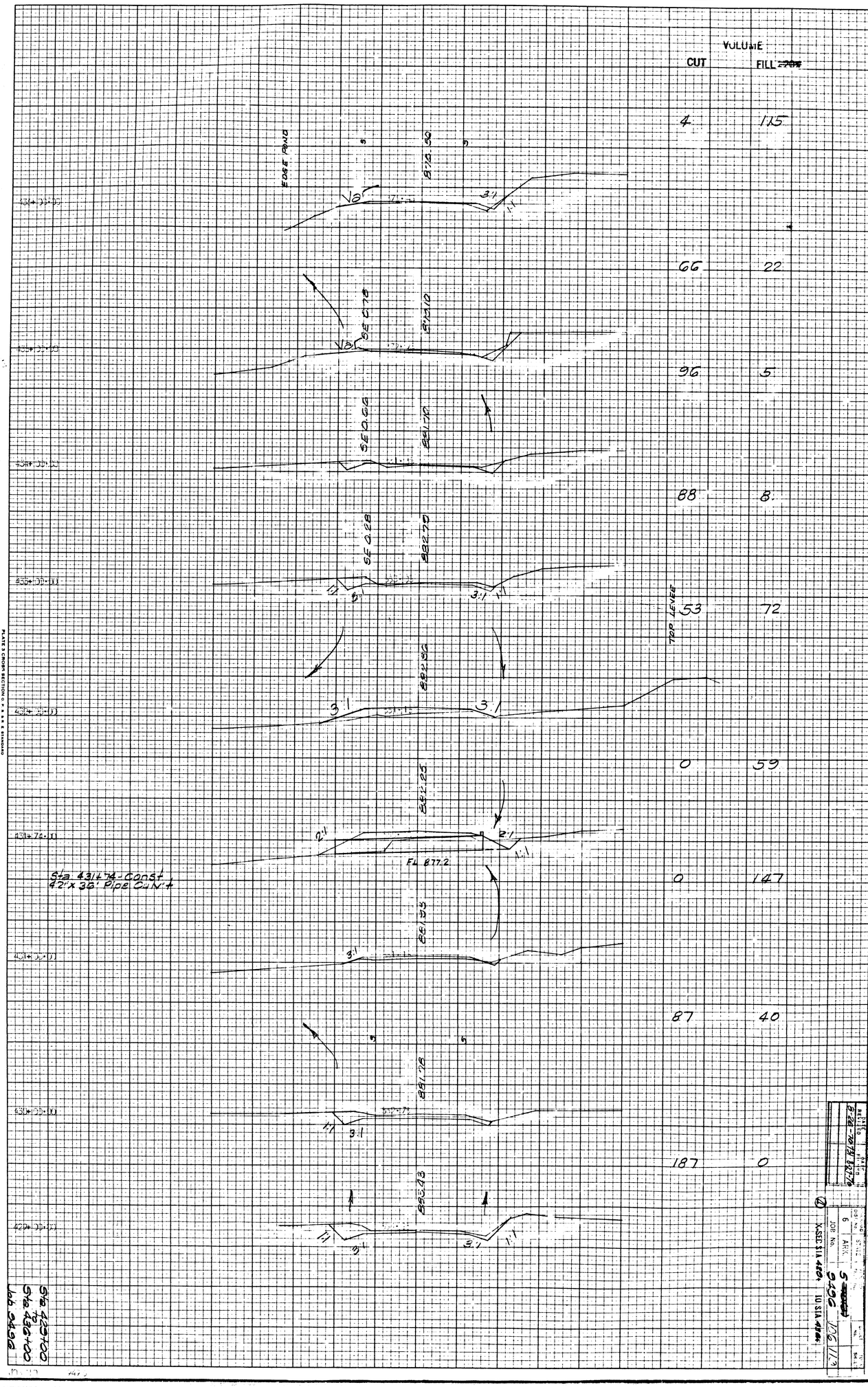
X-SEC STA 427+ TO STA 428+

265

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

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

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



VOLUME CUT	FILL
4	115
66	22
96	5
88	8
53	72
0	59
0	147
87	40
187	0

Sta 429+00 to Sta 436+00 Job 9496

DATE REVISED 8-26-70 DATE FILMED 8-27-70

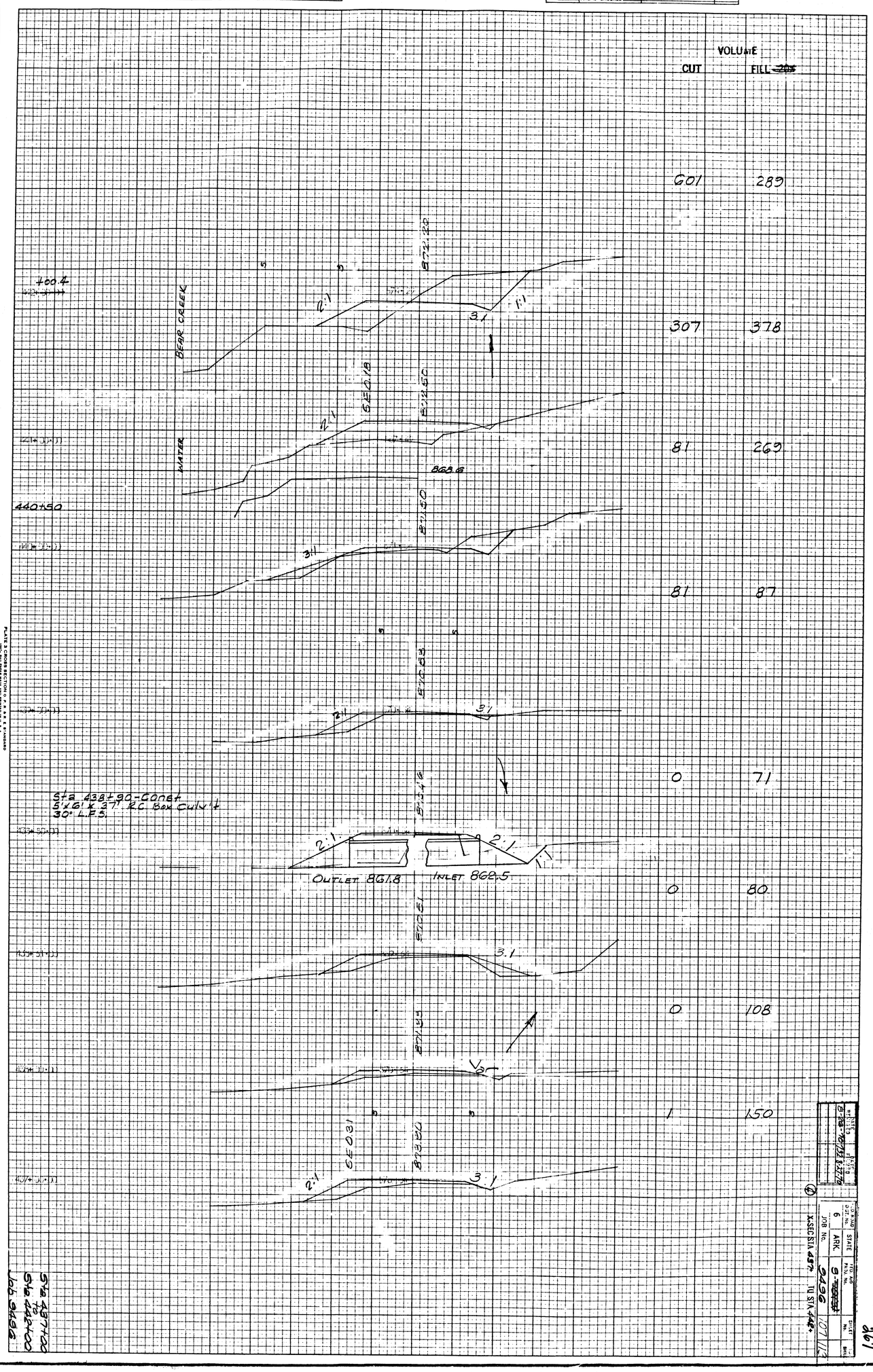
DISTRICT 6 ARK. 5 JOB No. 9496 SHEET No. 106 SHEET 113

X-SEC STA 429+ TO STA 436+

266

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

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



Sta 437+00 to Sta 442+00
Job 9496

DATE REVISED	DATE FILMED
8-26-70	8-27-70

COORD. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	SHEET
6	ARK.	9-~~[illegible]~~	107	113
JOB No.		9496		

X-SEC STA 437+ TO STA 442+

267

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

DATE REVISED	DATE FILMED
8-26-70	733 8-27-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-		
JOB No.		9496	108	113

X-SEC STA 443+ TO STA 449+

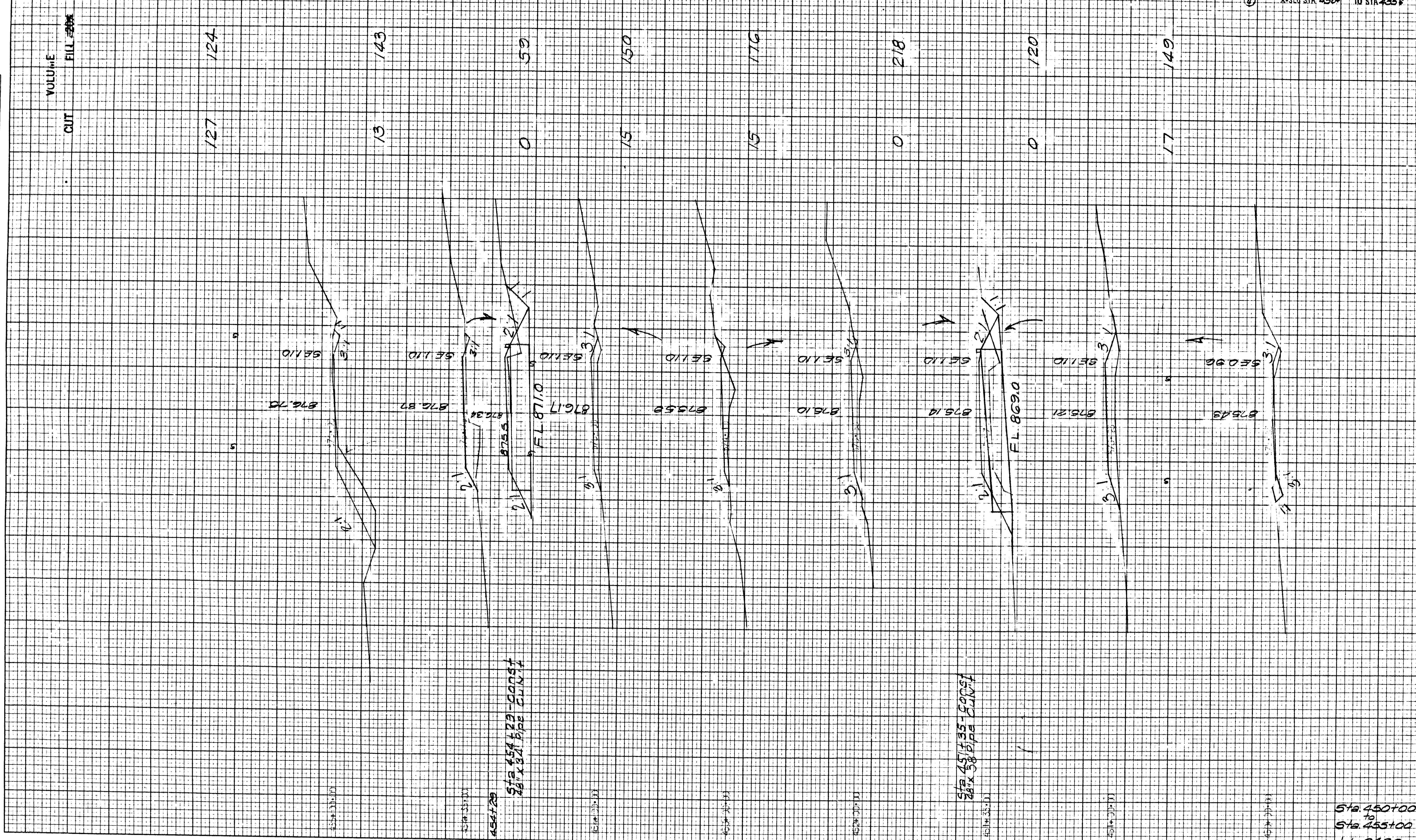
PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

269

DATE REVISED	DATE FILMED
8-26-70	734 8-27-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	5-~~30(3)~~		
JOB No.		9496	109	119

X-SEC STA. 450+ TO STA. 455+



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

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

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

270

DATE REVISED	DATE FILMED
8-28-70	735 8-27-70

FED ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TO. SHEETS
6	ARK.	S-~~7013~~		
JOB No.		9496	110	113

X-SEC STA 456+ TO STA 463+

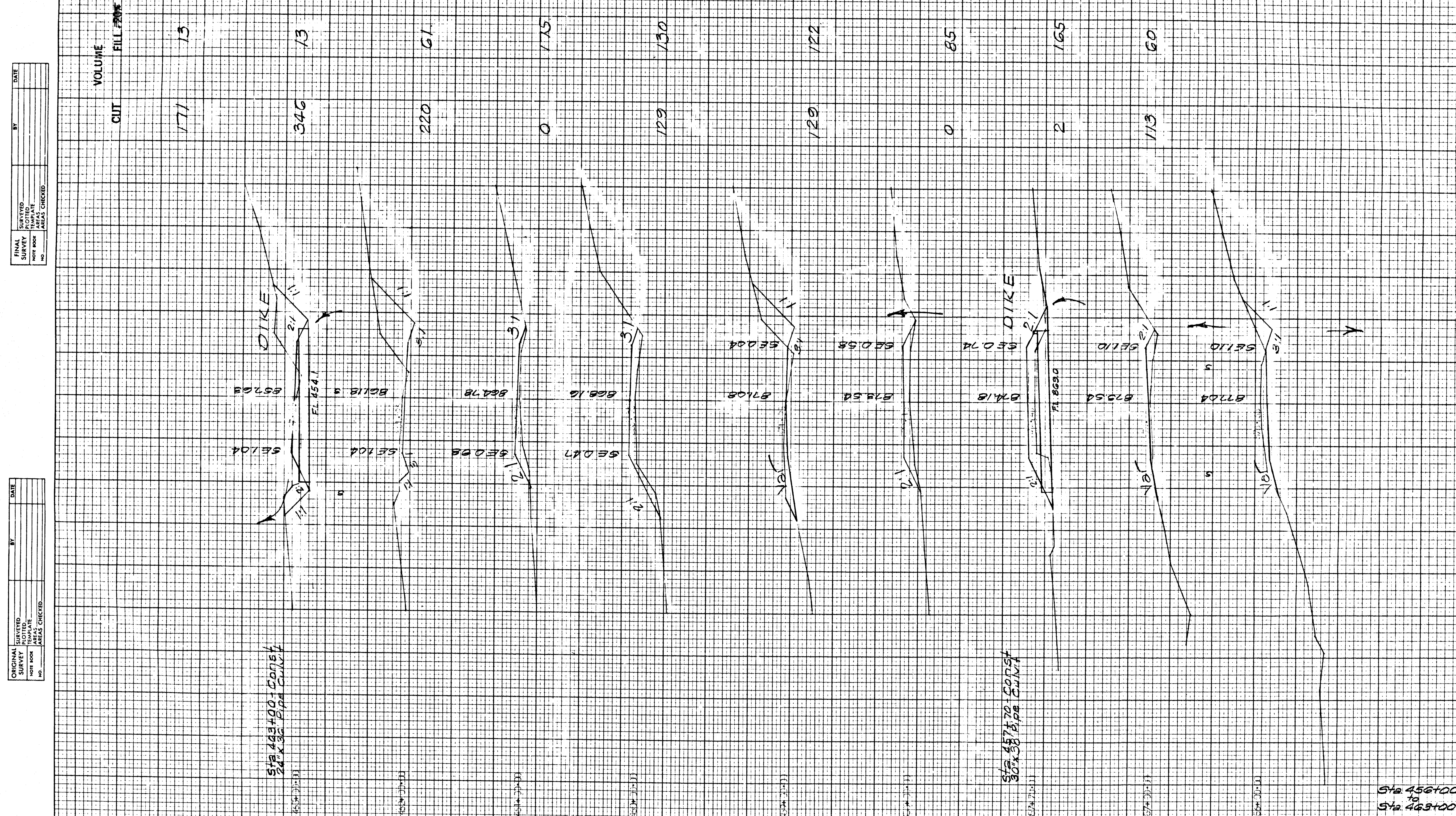
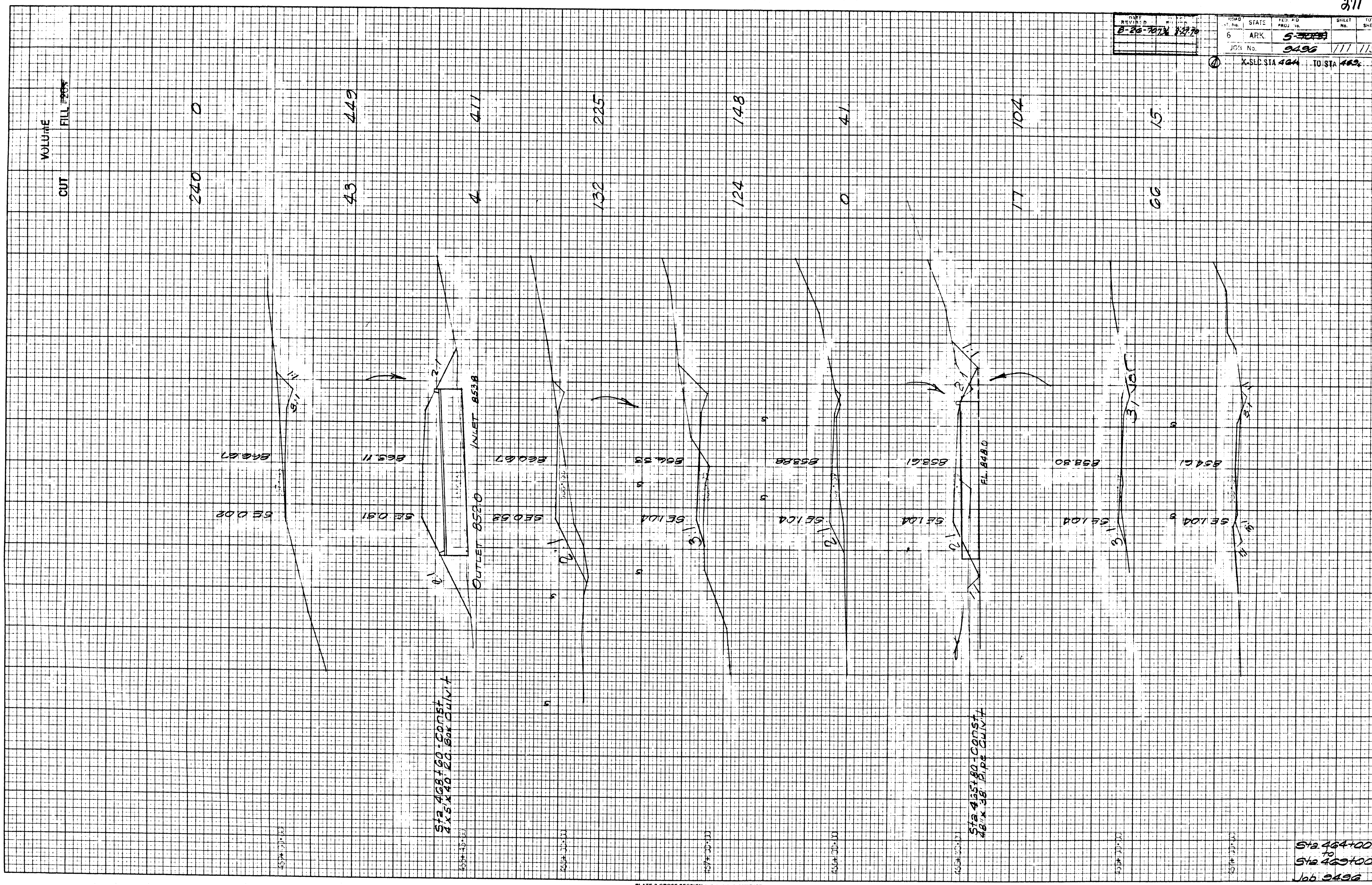


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

271



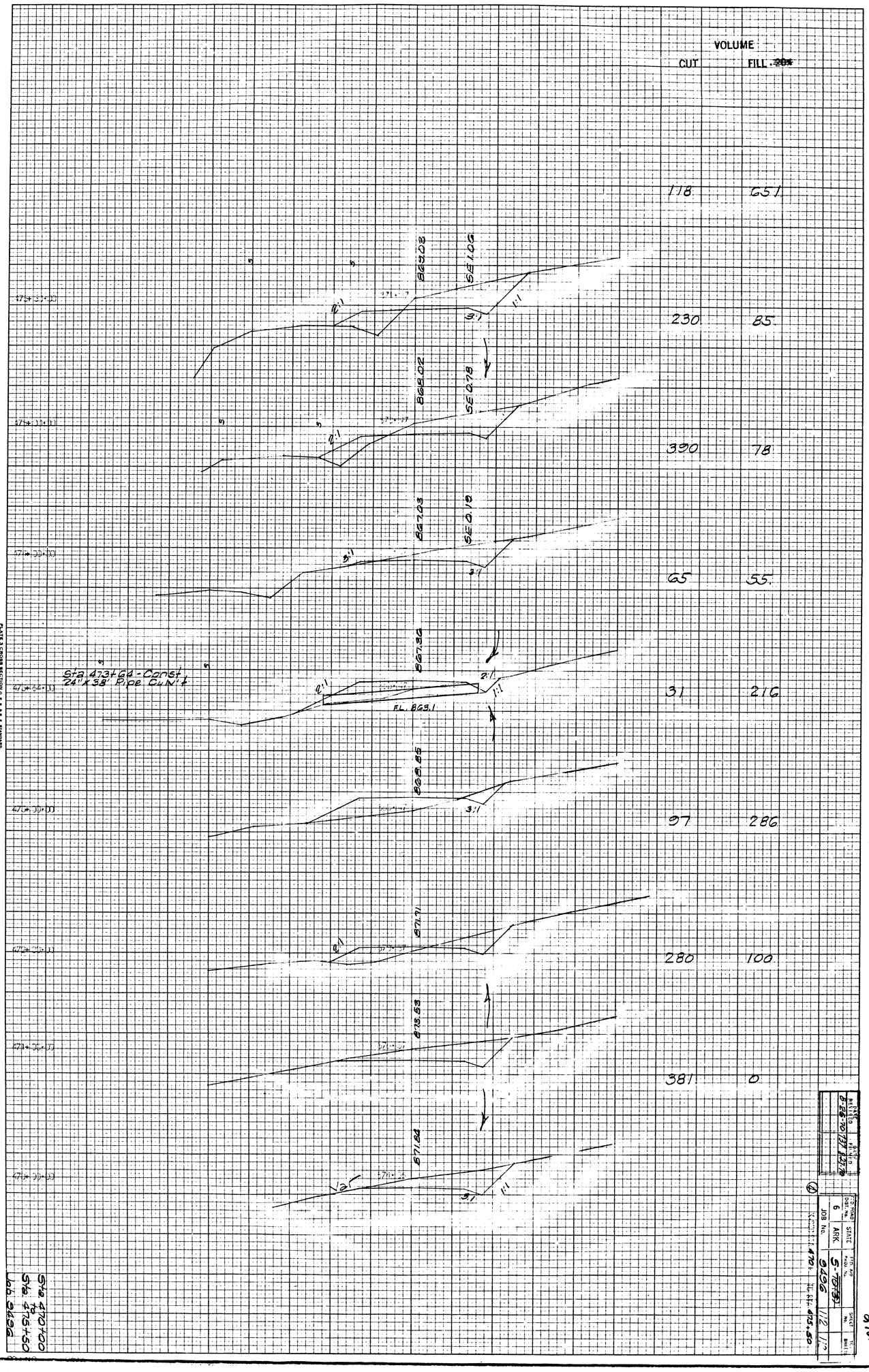
FINAL SURVEY — NOTE BOOK No. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

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

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

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



VOLUME CUT	FILL ~~20%~~
118	651
230	85
390	78
65	55
31	216
97	286
280	100
381	0

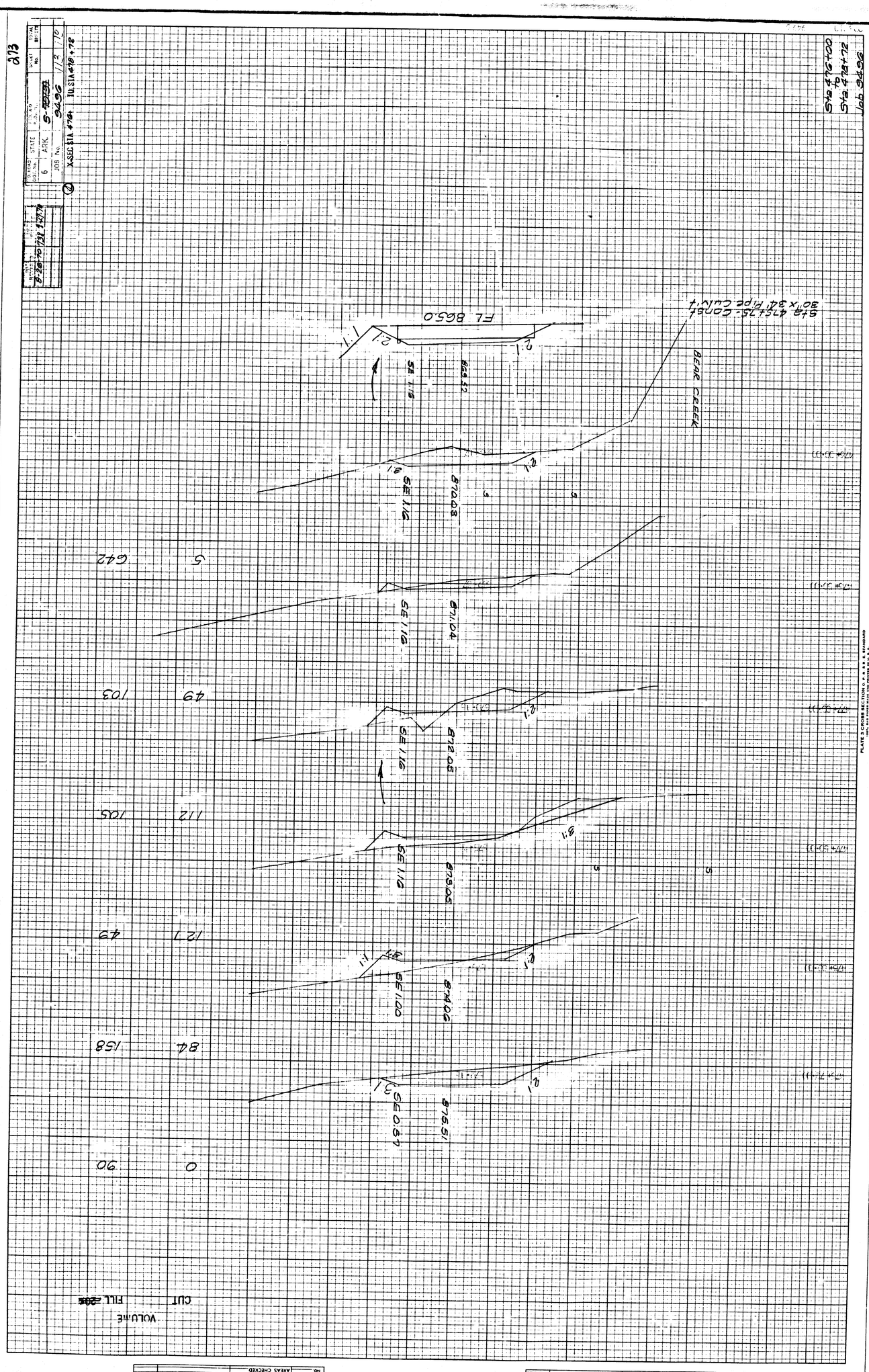
Sta 470+00 to Sta 475+50
Job 9496

DATE REVISED	DATE FILMED		
8-26-70	737	827.70	

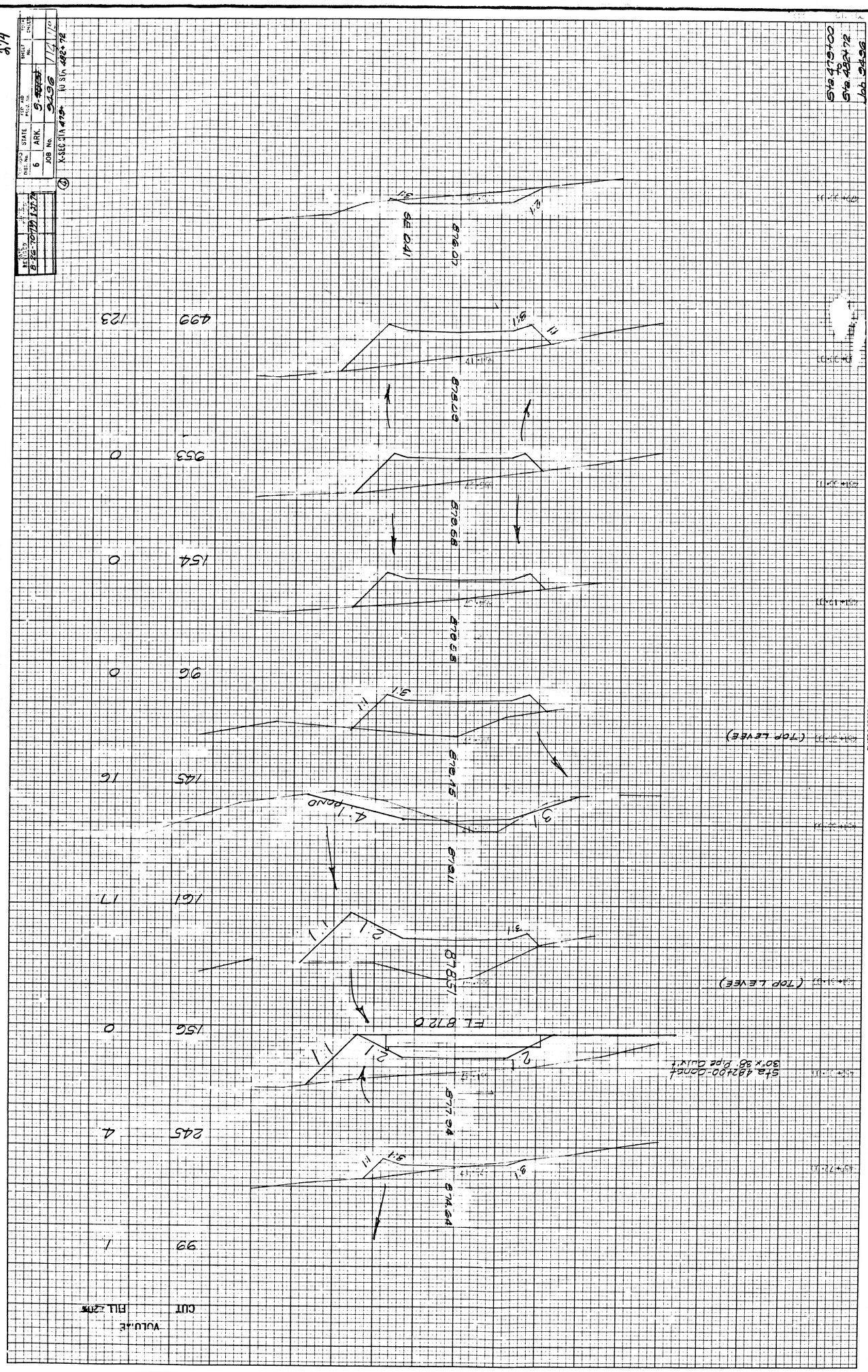
F.D. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOT. SHEETS
6	ARK.	S-70(3)	112	112
JOB No.		9496		

KNOWN STA. 470+ TO STA. 475+50

272



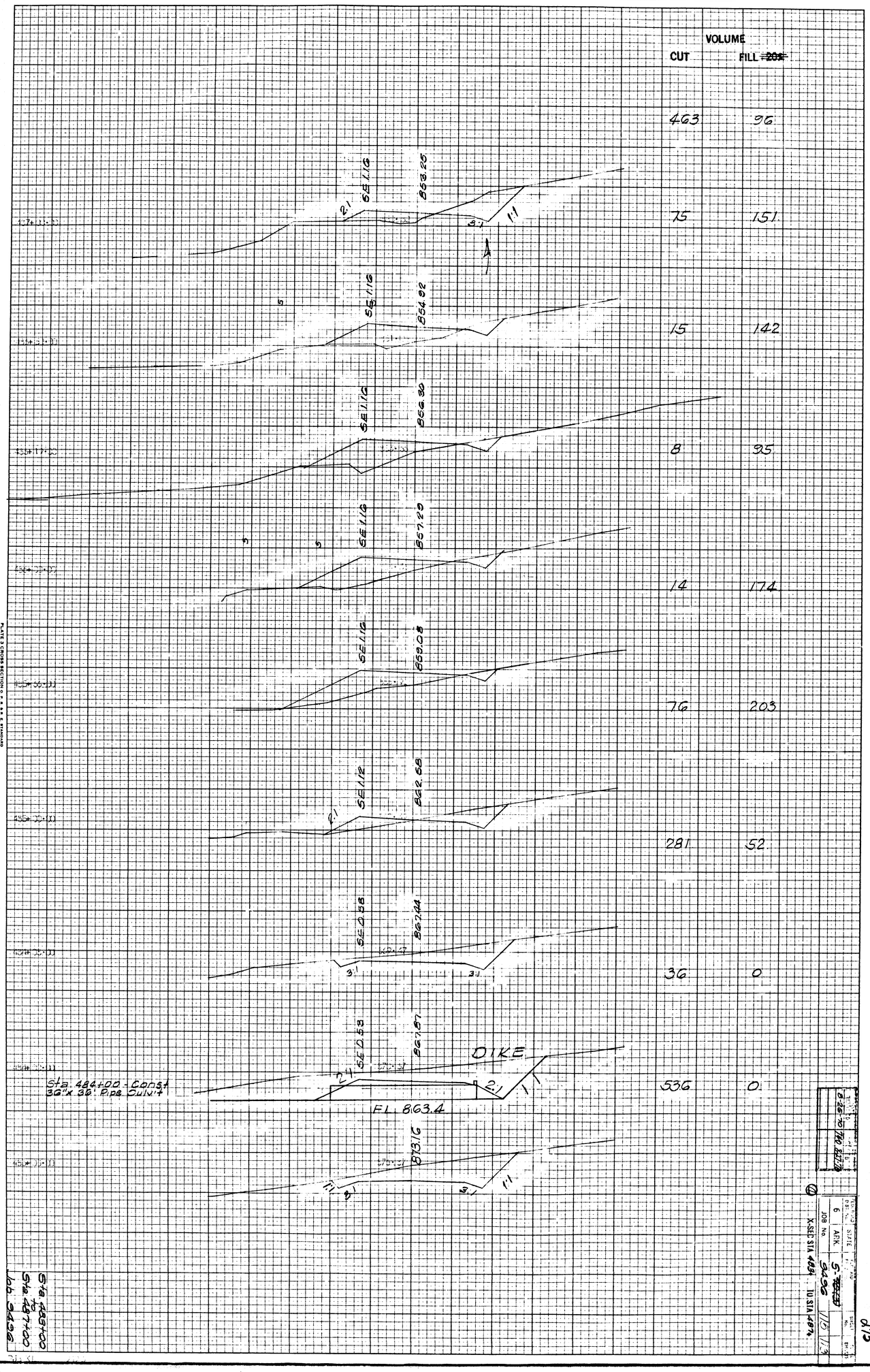
273
X-SEC STA 476+ TO STA 478+72
Sta 476+00 to Sta 478+72 Job 9496
Sta 475+75 - Const 30" x 34' Pipe Culvert
BEAR CREEK
FL 865.0
SE 1.16
869.52
870.03
871.04
872.05
873.05
874.06
875.51
SE 1.00
SE 0.57
642
103
105
49
121
84
90
0
VOLUME
CUT
FILL



274
DIST. No. 6
STATE ARK.
JOB No. 9496
X-SEC STA 479+ TO STA 482+72
Sta 479+00 to Sta 482+72 Job 9496
SE 0.41
876.07
878.09
879.58
879.58
878.15
878.11
878.51
FL 872.0
877.94
874.64
(TOP LEVEE)
(TOP LEVEE)
Sta 482+00-Const 30"x 38" Pipe Culvert
499 123
953 0
154 0
96 0
145 16
161 17
156 0
245 4
99 1
CUT
VOLUME
PLATE 3 CROSS SECTION

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

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



VOLUME	
CUT	FILL ~~201~~
463	96
75	151
15	142
8	95
14	174
76	203
281	52
36	0
536	0

Sta. 483+00 to Sta. 487+00
Job 9496

6	ARK.	5-[illegible]	
JOB No.		9496	116 113

X-SEC STA 483+ TO STA 487+

275

276

DATE REVISED	DATE FILMED
8-26-70	744 8-27-70

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~70132~~		
JOB No.		9496	116	119

④ X-SEC STA. 488 TO STA. 492+

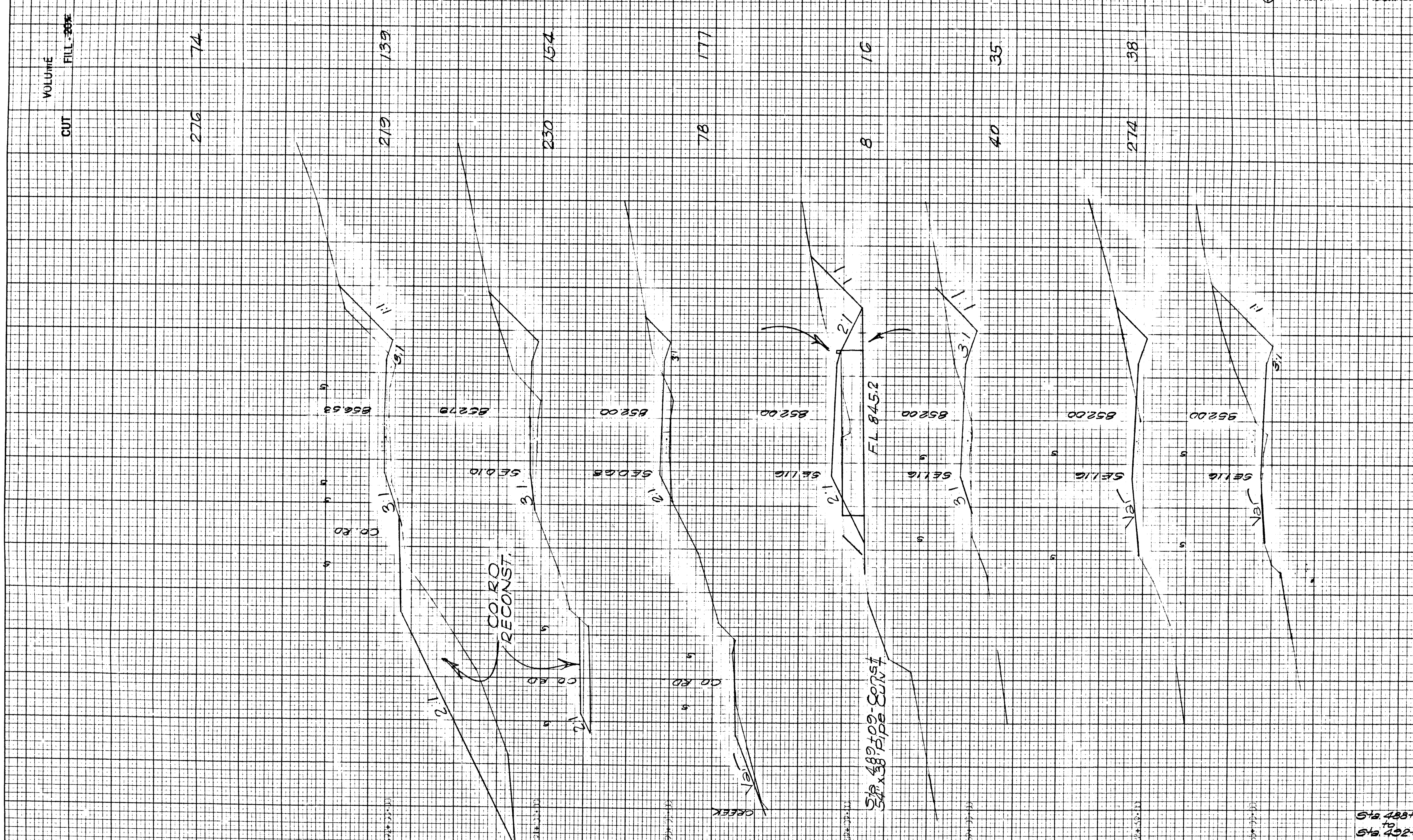
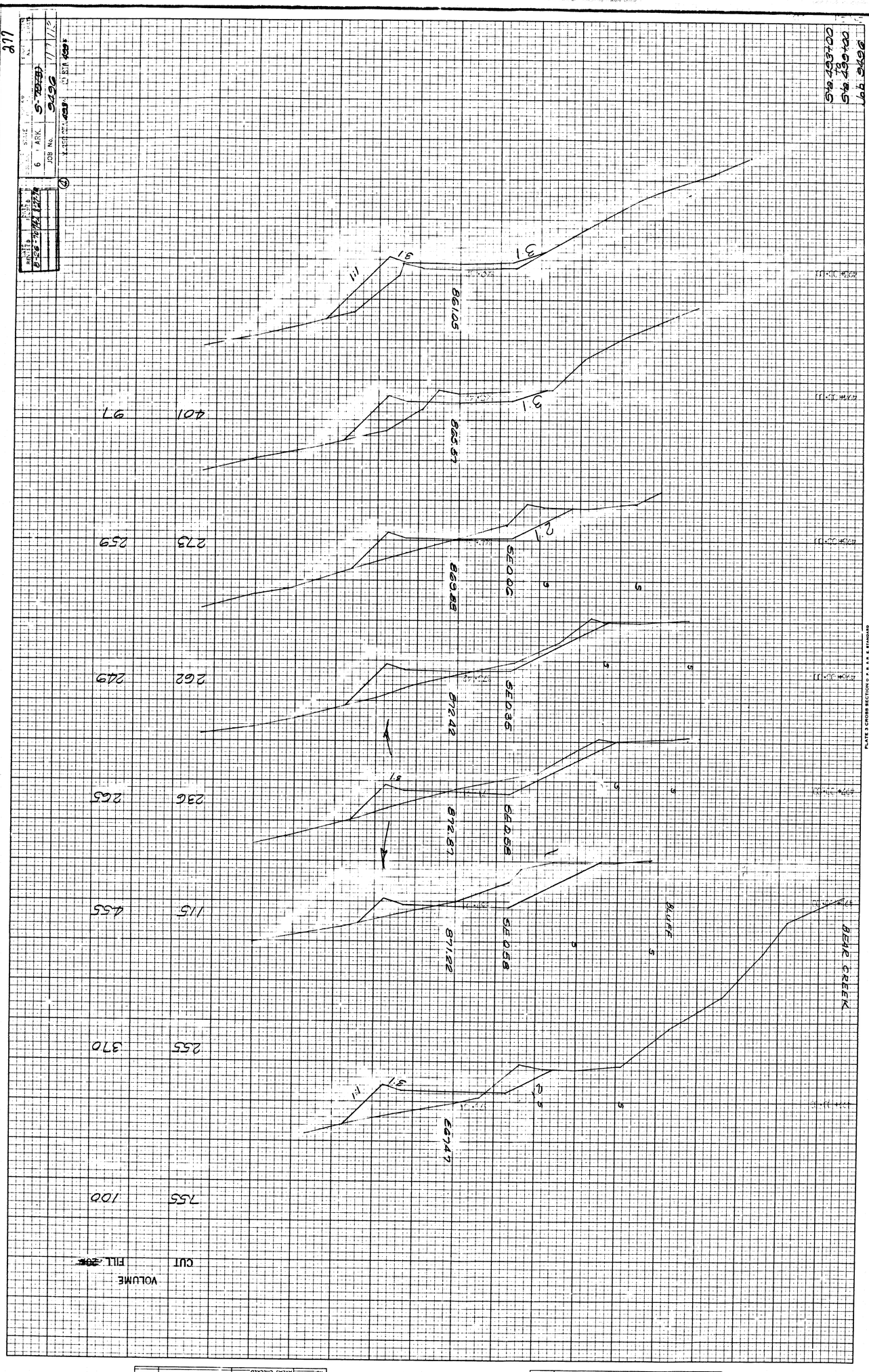


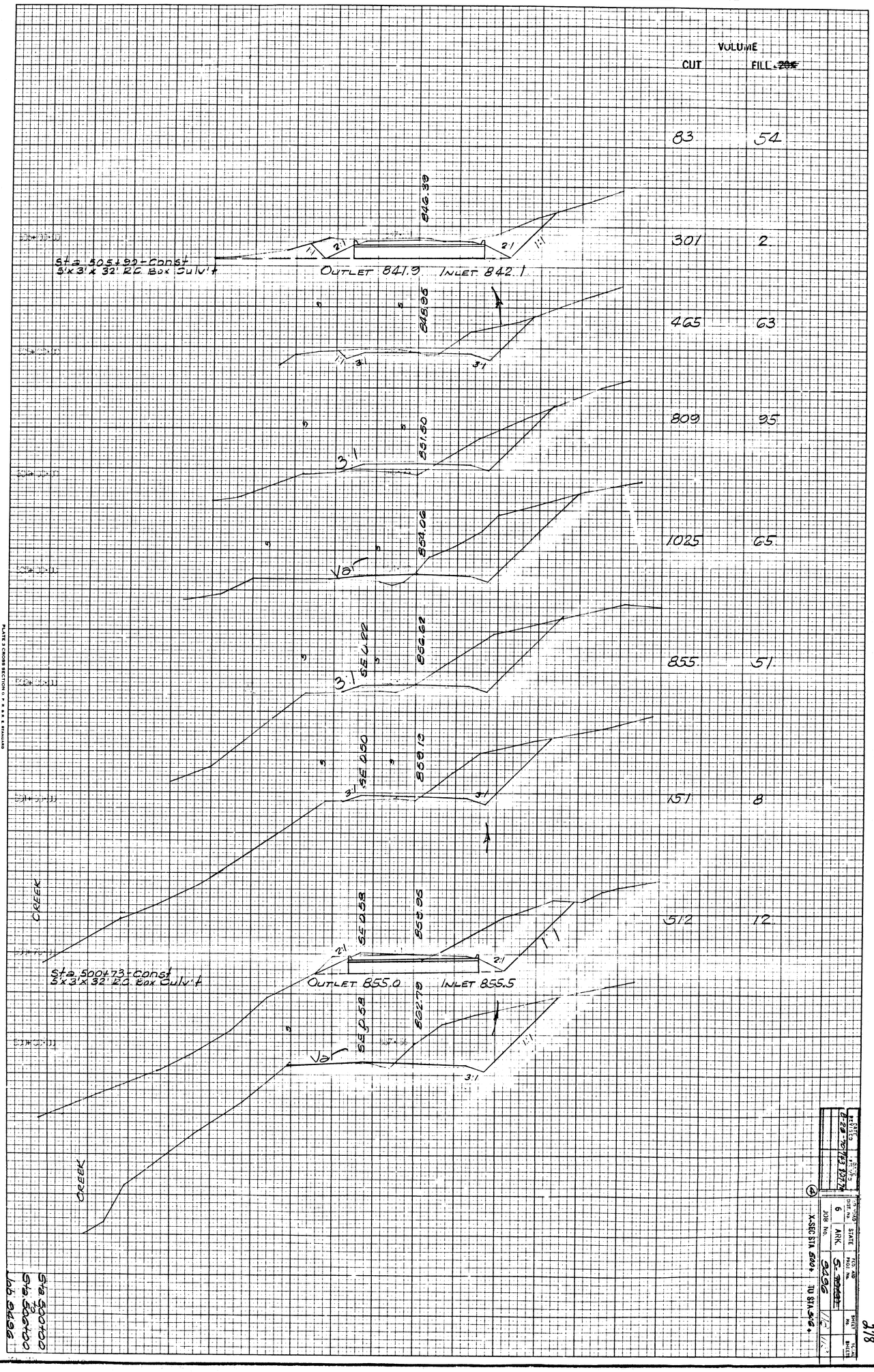
PLATE 3 CROSS SECTION O. P. R & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.



Sta. 493+00 to Sta. 499+00
Job 9496
BEAR CREEK
BLUFF
VOLUME
CUT
FILL

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

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



VOLUME CUT	VOLUME FILL ~~20%~~
83	54
301	2
465	63
809	95
1025	65
855	51
151	8
512	12

Sta 500+00 to Sta 506+00
Job 9496

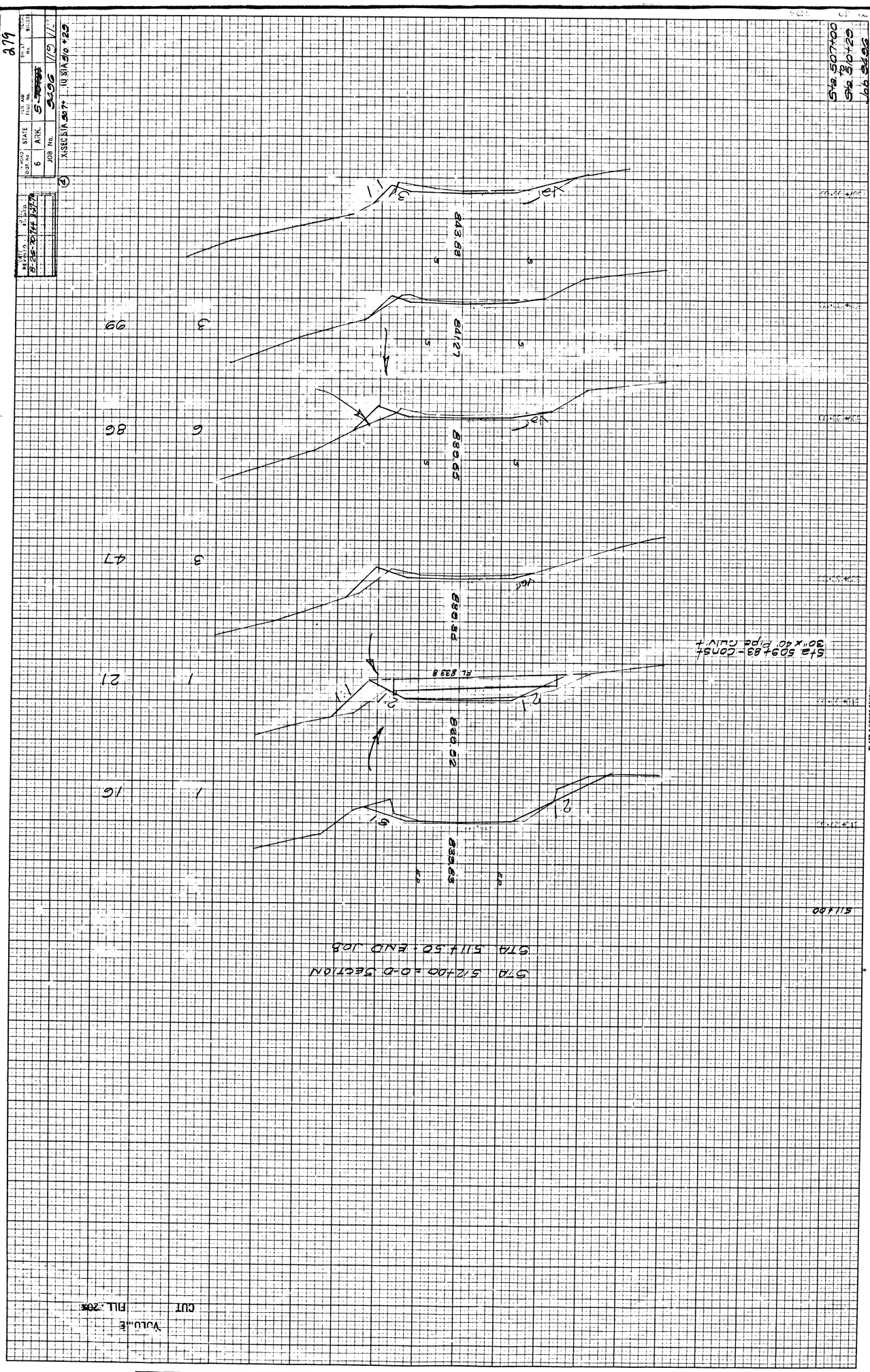
DATE REVISED	DATE REVISED	DATE REVISED
8-28-70	7-13-73	7-13-74

CO. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
6	ARK.	S-~~[illegible]~~		
JOB No.		9496		

X-SEC STA 500+ TO STA 506+

278

PLATE 3 CROSS SECTION O. P. R. R. & STANDARD
EMBANK DIETZGEN CO.



279
STATE
ARK.
JOB No.
9496
X-SEC STA 507+ TO STA 510+29
Sta 507+00 to Sta 510+29
Job 9496
843.88
841.27
839.65
839.36
FL 833.8
820.52
839.83
Sta 509+83 - Const 30"x40' Pipe Culv't
511+00
STA 512+00 = O-D SECTION
STA 511+50 - END JOB
CUT
FILL 20%
VOLUME
PLATE 3 CROSS SECTION O.P.R.R.R.E. STANDARD
EUGENE DIETZGEN CO.