

MICROFILMED
DEC 30 1985

MAR 11 1982

STATE OF OHIO DEPARTMENT OF HIGHWAYS

PIK-32-3.21 PIKE COUNTY

APD-1128 (34)

FED. RD. DIVISION	STATE	PROJECT	1
2	OHIO	APD-1128(34)	432

PIK-32-3.21

CONVENTIONAL	SIGNS
Limited Access Only	LA
Right of Way with Limited Access	LA & R/W
Proposed Right of Way	R/W
Existing Right of Way	R/W
Proposed Easement	
Property Line	PL
County Line	
Township Line	
Section Line or Virginia Military Survey	
Center Line	
Corporation Line	
Fence Line	
Guard Rail (existing)	
Guard Rail (proposed)	
Proposed Temporary Guard Rail	
Railroad	
Power Poles	
Telephone Poles	
Trees & Stumps (existing)	
Temporary Right of Way	

SUNFISH TOWNSHIP - NEWTON TOWNSHIP

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highway in accordance with the provisions of Section 5511.02 of the revised Code of Ohio.

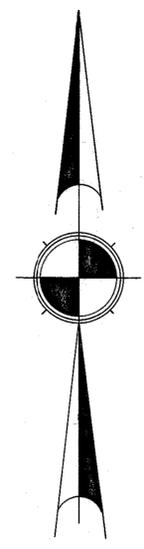
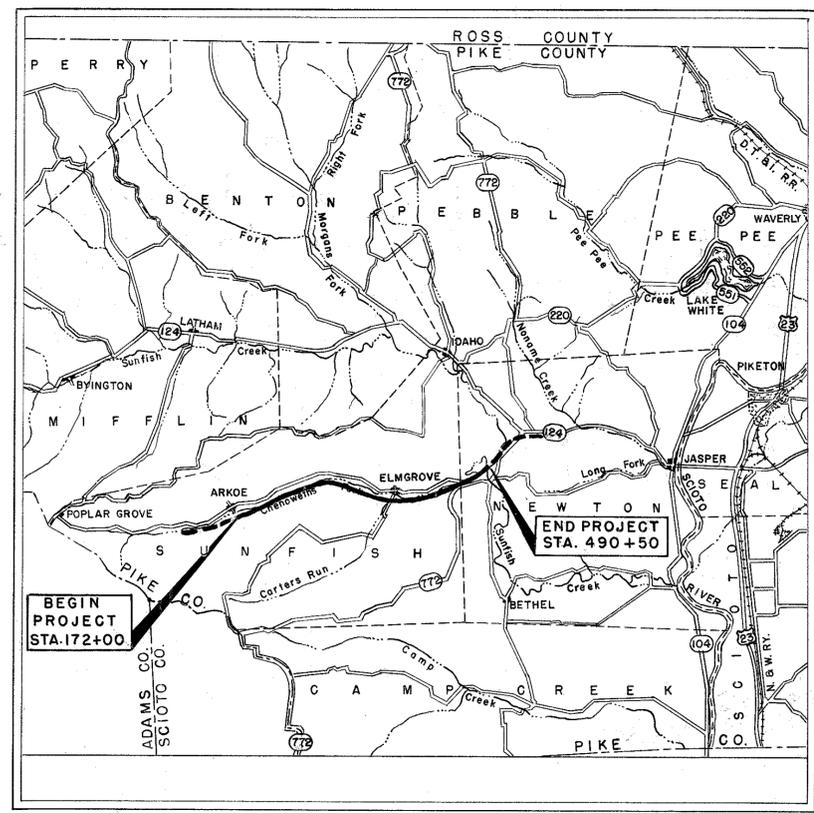
1971 SPECIFICATIONS

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

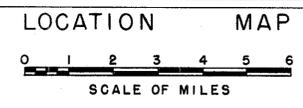
The right of way necessary for this improvement will be provided by the State of Ohio.

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

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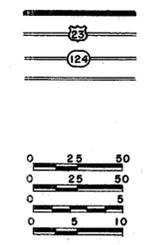
LINE DATA	
BEGIN PROJECT EQUATION	STA. 169+53.16 BACK = STA. 172+00.00 AHEAD
EQUATION	STA. 380+80.82 BACK = STA. 380+81.15 AHEAD = 20,880.82 Lin. Ft.
END PROJECT EQUATION	STA. 490+50.00 BACK = STA. 864+80.30 AHEAD = 10,968.85 Lin. Ft.
NET LENGTH OF PROJECT = 31,849.67 Lin. Ft. OR 6.032 MILES	



Sheet No. 397 revised
4-7-72 EBL
Rev. Shfs. 355 & 356, 9-7-72 AWG

STATE ROUTE 32 Sta. 166+47.00 to Sta. 169+53.16 = 306.16 Lin. Ft. Sta. 864+80.30 to Sta. 867+33.00 = 252.70 Lin. Ft.	TOWNSHIP ROAD 288 Sta. 14+56.00 to Sta. 19+54.80 = 498.80 Lin. Ft. Sta. 20+45.20 to Sta. 23+17.00 = 271.80 Lin. Ft.	Portion to be improved Federal Roads State Roads Other Roads
SERVICE ROAD "B" Sta. 88+42.01 to 98+60.00 = 1017.99 Lin. Ft.	SERVICE ROAD "A" Sta. 9+30.00 to Sta. 12+89.00 = 359.00 Lin. Ft.	
TOWNSHIP ROAD 541 Sta. 8+30.00 to Sta. 14+53.18 = 623.18 Lin. Ft. Sta. 15+46.82 to Sta. 23+05.00 = 758.18 Lin. Ft.	STATE ROUTE 772 Sta. 554+70.00 to Sta. 566+97.31 = 1,227.31 Lin. Ft.	
SERVICE ROAD "C" Sta. 0+10.00 to Sta. 4+30.00 = 420.00 Lin. Ft.	TOTAL LENGTH OF APPROACHES = 7,607.30 Lin. Ft.	Plan Profile: Horizontal Profile: Vertical Cross Sections
COUNTY ROAD 35 Sta. 9+40.00 to Sta. 23+53.18 = 1,413.18 Lin. Ft. Sta. 24+44.00 to Sta. 29+03.00 = 459.00 Lin. Ft.	NET LENGTH OF WORK = 31,849.67 Lin. Ft. + 7,607.30 Lin. Ft. = 39,456.97 Lin. Ft. OR 7.472 MILES.	

SCALE



Supplemental Prints of Standard Construction Drawings						Supplemental Specifications			
BP-5	1-1-71	CB-6	6-1-65	GR-2B	11-9-71	MC-1	6-13-69	801	1-1-69
BP-6	6-1-65	CB-8	9-1-69	GR-3	11-9-71	MC-3	6-20-69	808	1-1-71
CB-2-2A&B	6-1-65	F-1	3-10-69	GR-4	11-9-71	MC-4	6-13-69	1001	1-1-69
CB-2-3&2-4	6-1-65	F-2	1-1-71	GR-6	1-1-71	MC-5	6-1-65	927	1-1-71
CB-4	9-1-69	FACI-1	4-20-71	BP-3	1-1-71	F-5	3-10-69	836	1-1-71
CB-458A	6-6-68	FACI-2	4-20-71			F-6	10-1-66	815	1-1-69
CB-5	9-1-69	GR-2A	1-1-71	HW-E	6-1-65			816	1-1-69

File No.	PIKE COUNTY	PIK-32-3.21
Date of Letting		19
Contract No.		

- Approved W. J. R. Rouse
Date 3-31-70 Division Deputy Director
- Approved C. H. Albrecht
Date 8-25-71 Engineer of Bridges
- Approved E. J. Schaefer
Date 8-18-71 Engineer of Location & Design
- Approved H. L. Korman
Date 8-18-71 Deputy Director of Design & Construction
- Approved R. L. Newberger
Date 8-31-71 Deputy Director of Right of Way
- Approved William P. M. Korman
Date 9-2-71 Deputy Director of Planning & Programming
- Approved William P. M. Korman
Date 9-2-71 First Assistant Director
- Approved Phillip R. Rouse
Date 9-2-71 Director of Highways

Plans Prepared By BARRETT, CARGO, WITHERS & ASSOCIATES, LTD.
245 - 249 S. Paint St. Chillicothe, Ohio

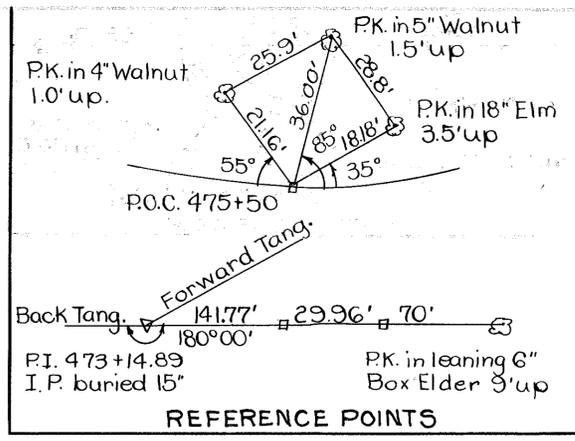
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____

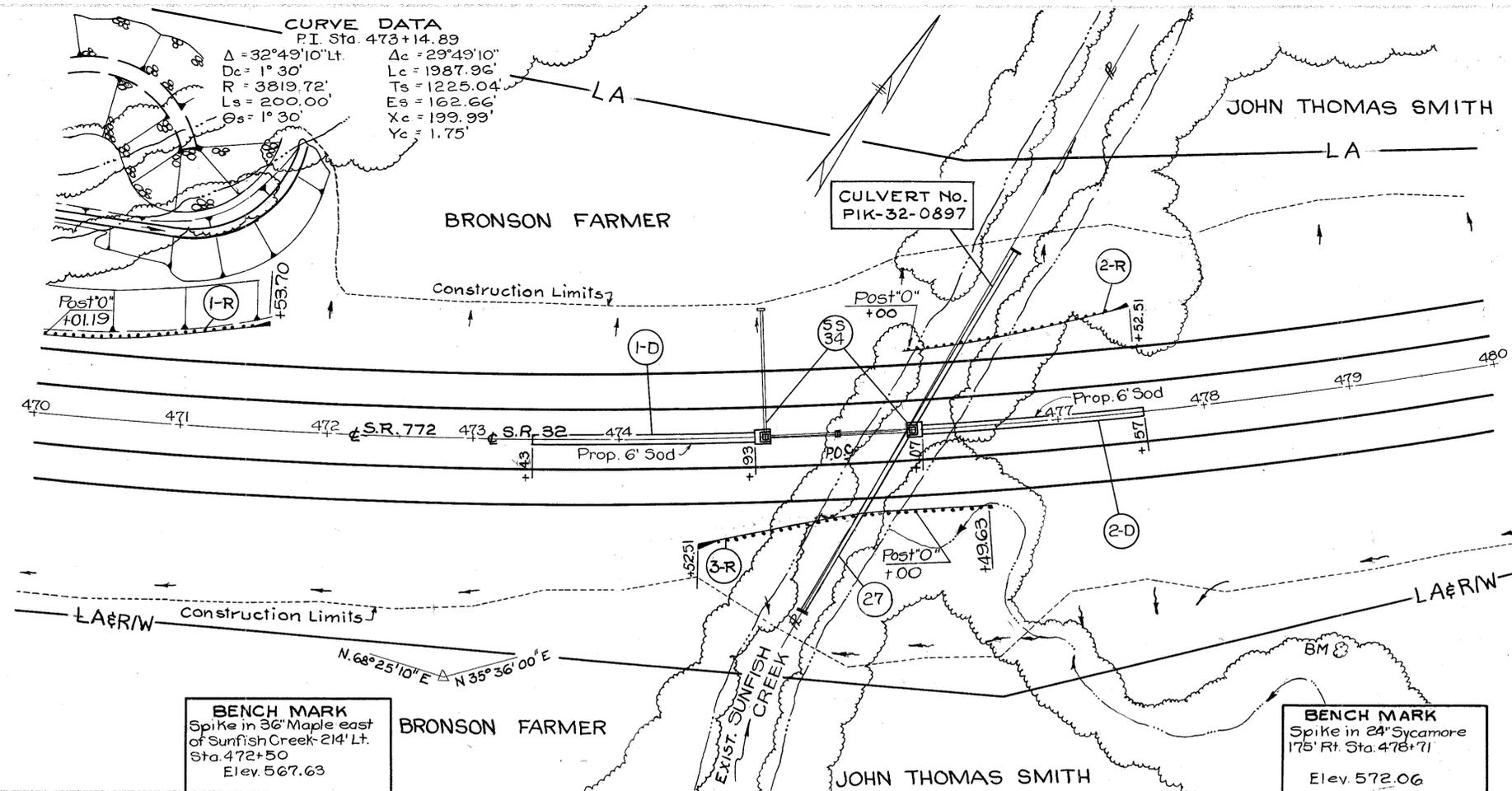
DIVISION ENGINEER _____ DATE _____

PIK-32-3.21

CURVE DATA
 P.I. Sta. 473+14.89
 $\Delta = 32^\circ 49' 10''$ Lt. $\Delta c = 29^\circ 49' 10''$
 $D_c = 1^\circ 30'$ $L_c = 1987.96'$
 $R = 3819.72'$ $T_s = 1225.04'$
 $L_s = 200.00'$ $E_s = 162.66'$
 $\theta_s = 1^\circ 30'$ $X_c = 199.99'$
 $Y_c = 1.75'$

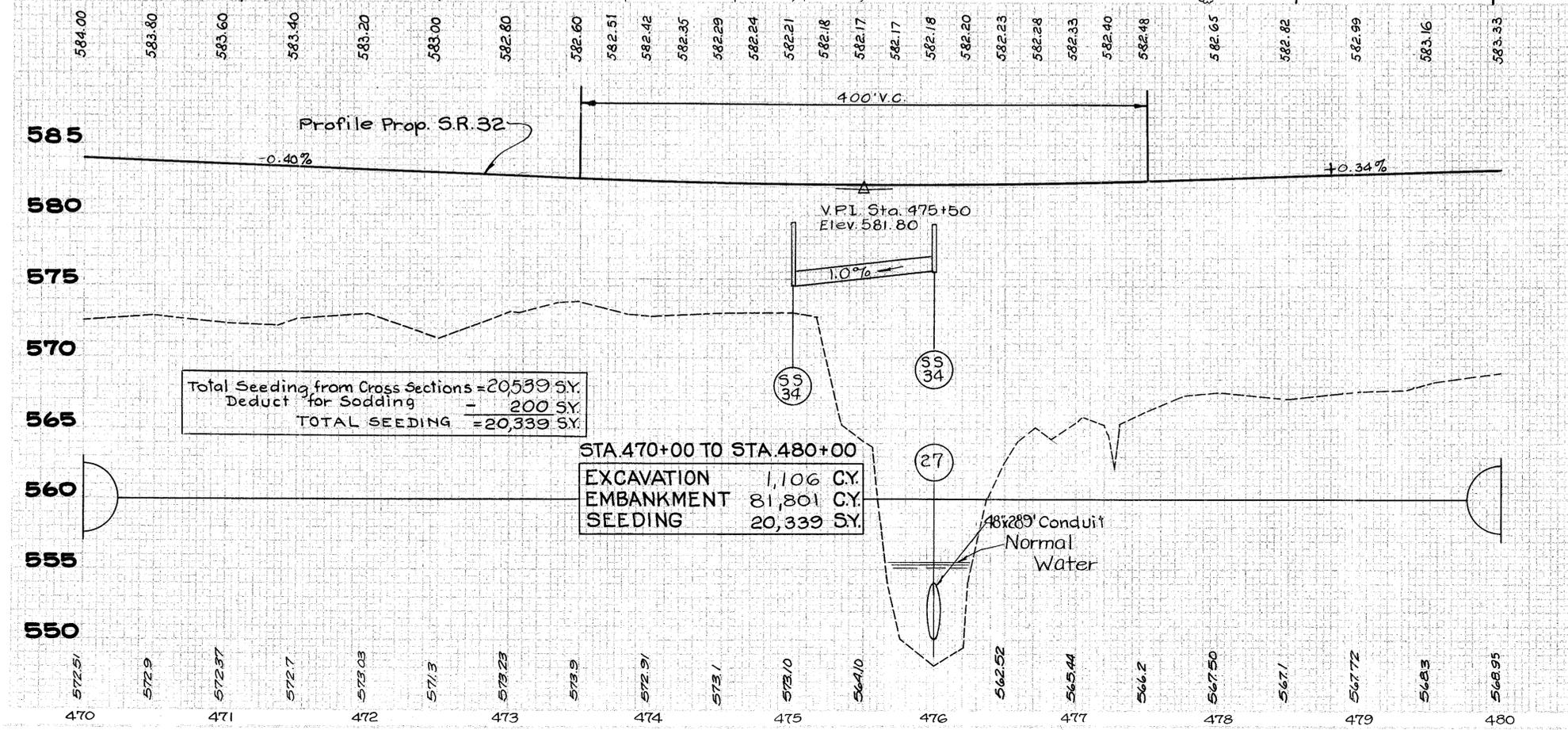


REFERENCE POINTS



BENCH MARK
 Spike in 36" Maple east of Sunfish Creek 214' Lt. Sta. 472+50 Elev. 567.63

BENCH MARK
 Spike in 24" Sycamore 175' Rt. Sta. 478+71 Elev. 572.06



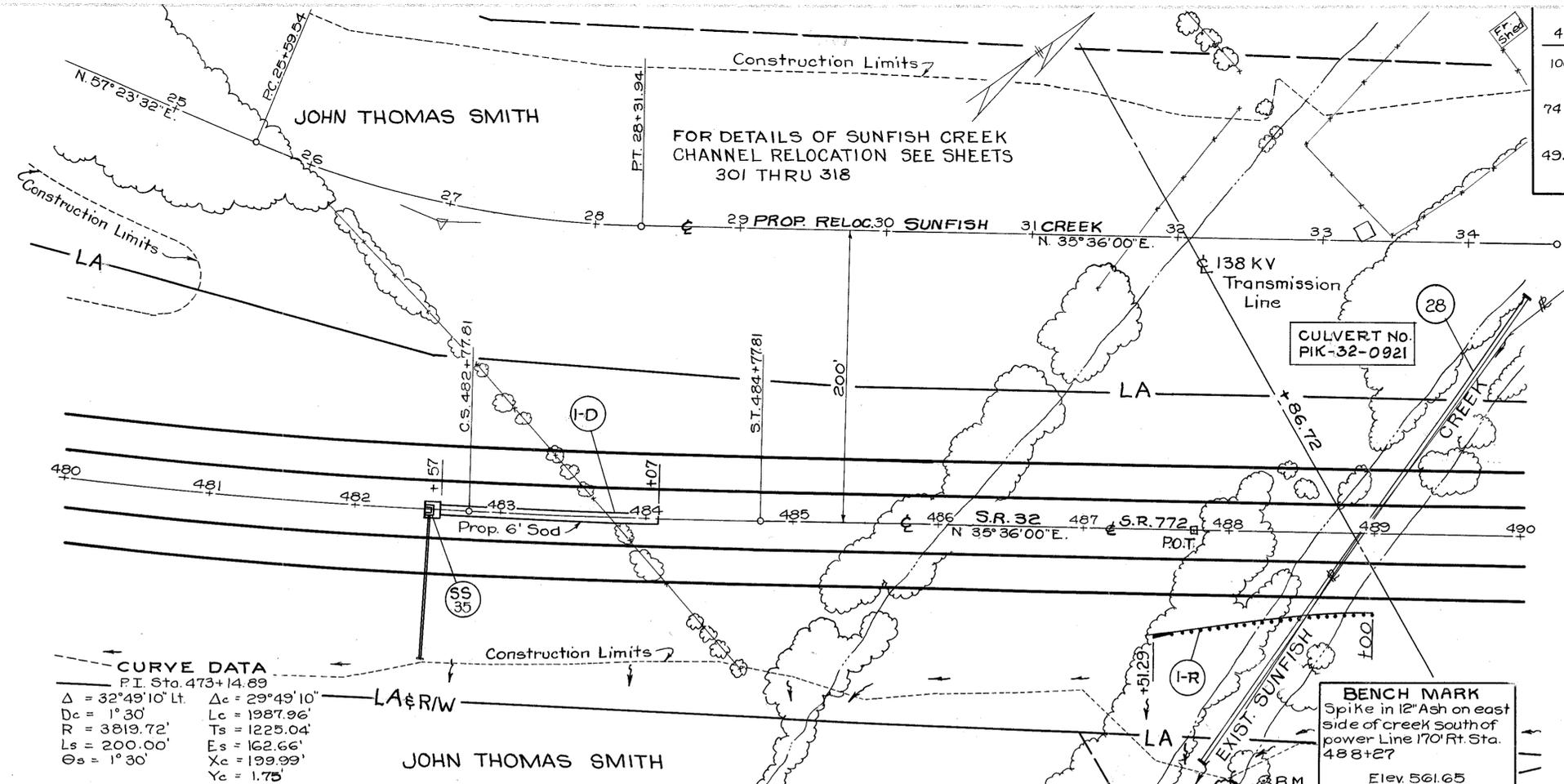
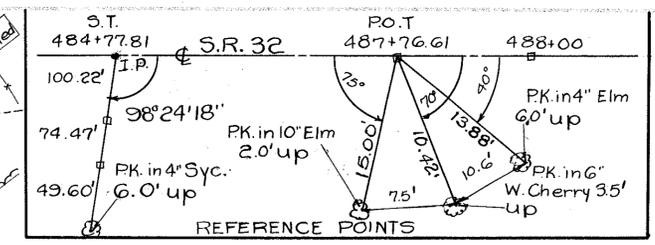
ESTIMATED QUANTITIES

Station	Description	Unit	Quantity	Unit Price	Total
660	Sodding	S.Y.	100	100	200
604	Std. No. 8 Catch Basin	Each	2		2
603	12" Conduit Type 'C'	L.F.	100		100
603	12" Conduit Type 'B'	L.F.	86		86
602	Concrete Masonry	C.Y.	0.23		0.23
606	Anchor Assembly	Each	1		1
606	Guard Rail Type 5	L.F.	12500		12500
	Side	Lt.	10000		10000
		Rt.	15000		15000
	Station to Station	Lt.	470+01.9 to 471+53.70		4
		Lt.	476+00 to 477+52.51		4
		Rt.	474+52.51 to 476+49.63		4
		Lt.	473+43 to 474+93		4
		Lt.	476+07 to 477+57		4
SS34 220-221	475+00 to 476+00	Lt.			
353	See Sheet No. 353				
	TOTALS				375.00

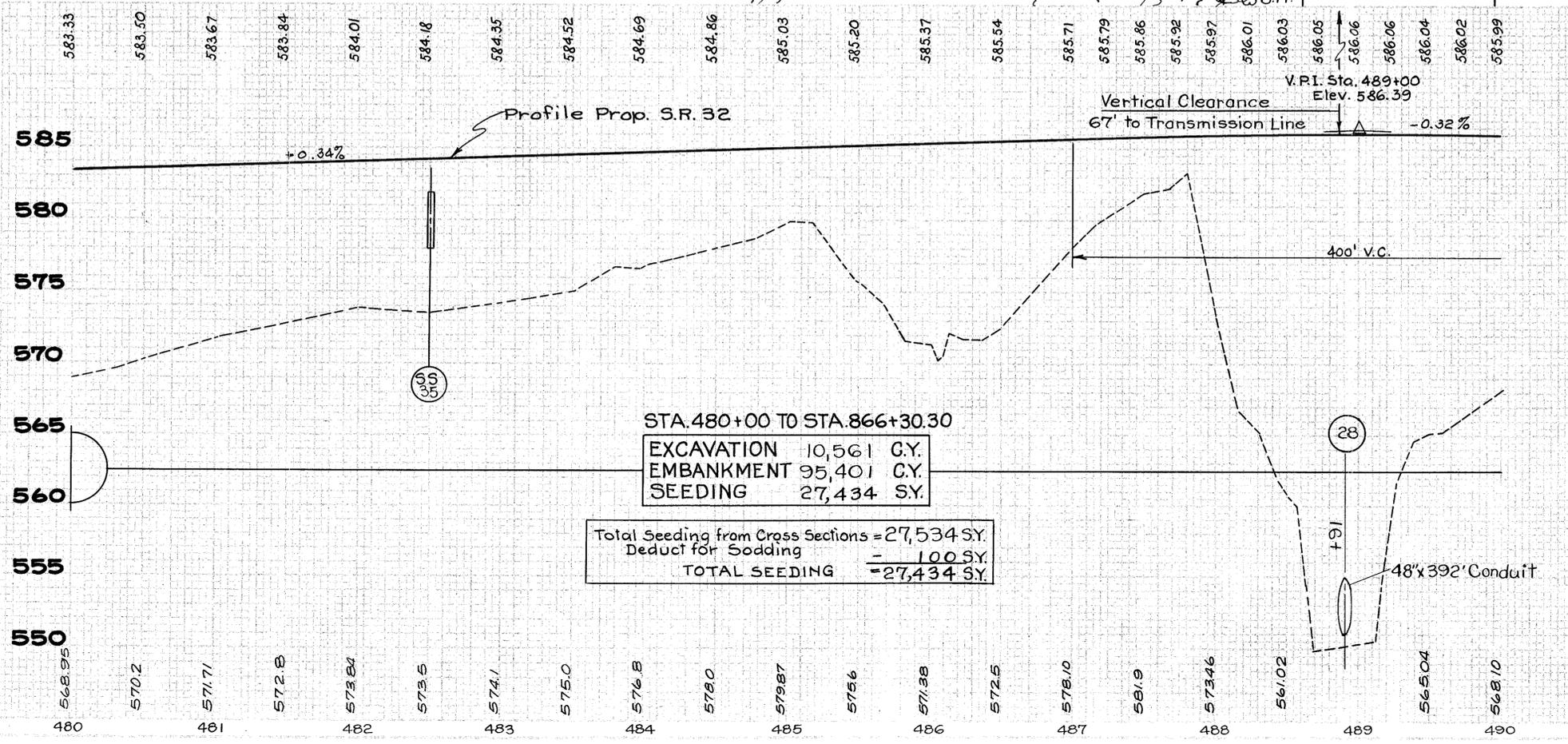
Calculated BY: EAP 11-69
 Checked BY: GEA 1-20-70

STA. 470+00 TO STA. 480+00

PIK-32-3.21



CURVE DATA
 P.I. Sta. 473+14.89
 $\Delta = 32^\circ 49' 10''$ Lt. $\Delta c = 29^\circ 49' 10''$
 $D_c = 1^\circ 30'$ $L_c = 1987.96'$
 $R = 3819.72'$ $T_s = 1225.04'$
 $L_s = 200.00'$ $E_s = 162.66'$
 $\Theta_s = 1^\circ 30'$ $X_c = 199.99'$
 $Y_c = 1.75'$



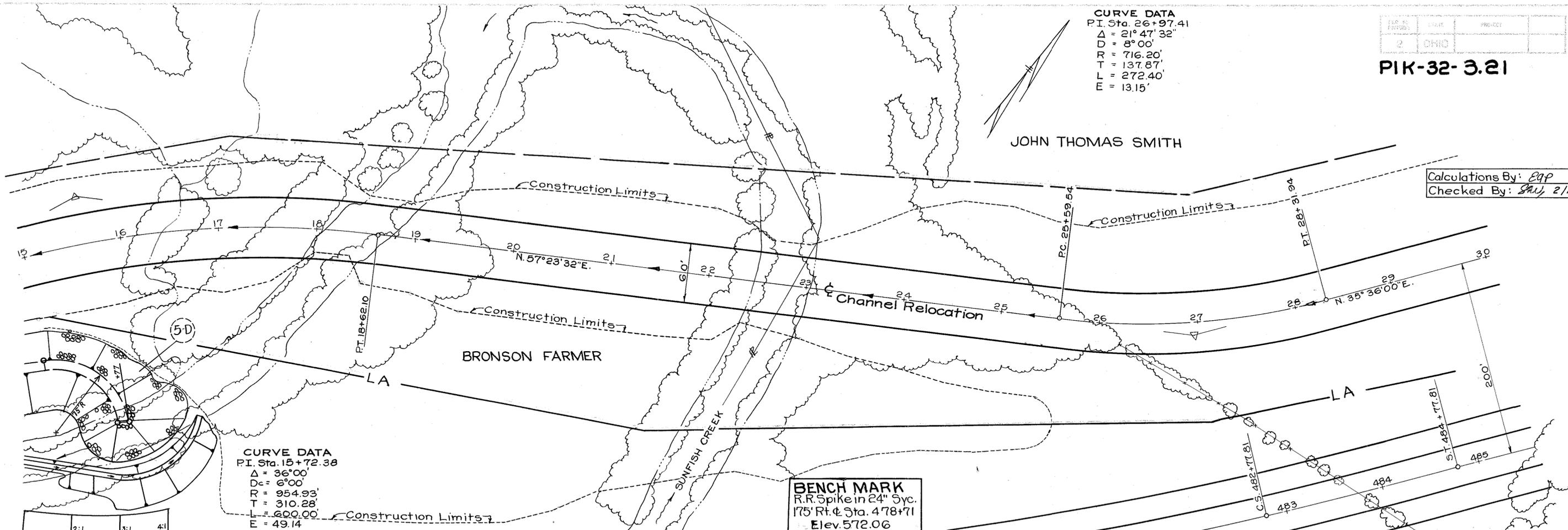
ESTIMATED QUANTITIES		SY	100	100
660	Sodding	SY		100
604	Std. No. 8 Catch Basin	Each	1	1
603	12" Conduit Type "B"	L.F.	102	102
602	Concrete Masonry	C.Y.	0.23	0.23
606	Anchor Assembly	Each	2	2
606	Guard Rail Type 5	L.F.	100	10000
	Side	Rt.		
	Station to Station			
	See Sheet No.			
	Reference No.			
	I-R	487+51.29 to 489+00		
	I-D	482+57 to 484+07		
5535	215	482+50	Rt.	
28	354	488+91	See Sheet No. 354	
				TOTALS

Calculated BY: *Pop 11-69*
 Checked BY: GEA. I-20-70 **STA. 480+00 TO STA. 490+00**

CURVE DATA
 P.I. Sta. 26+97.41
 $\Delta = 21^\circ 47' 32''$
 $D = 8^\circ 00'$
 $R = 716.20'$
 $T = 137.87'$
 $L = 272.40'$
 $E = 13.15'$

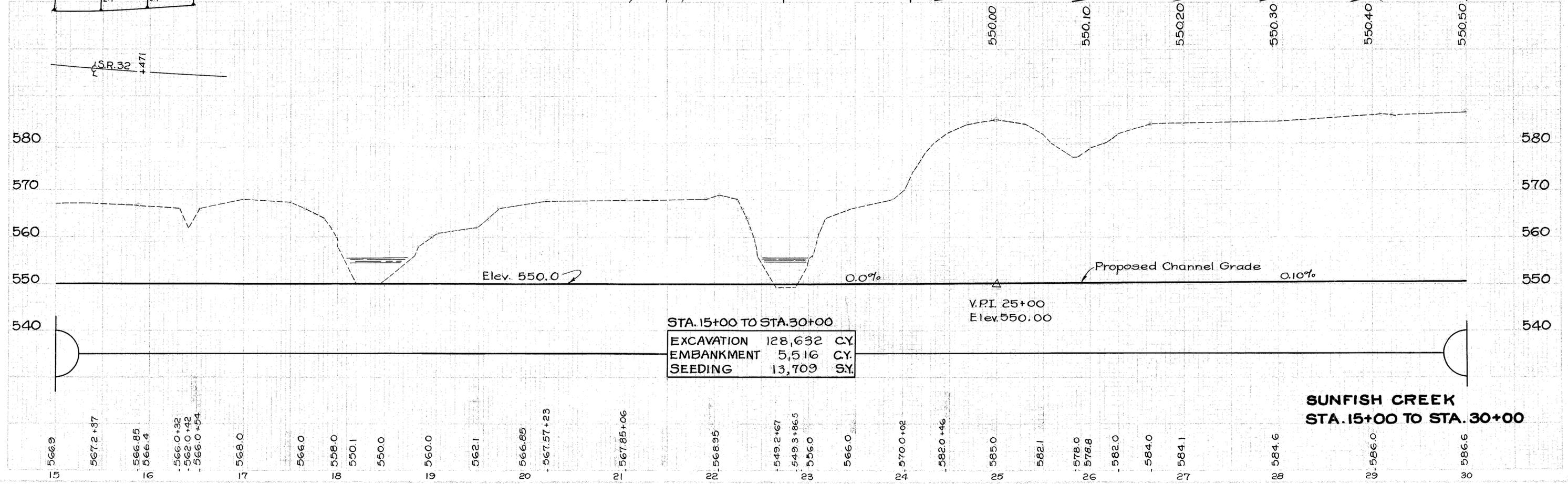
JOHN THOMAS SMITH

Calculations By: *EGP* 11-69
 Checked By: *SAU* 2/12/70



CURVE DATA
 P.I. Sta. 15+72.38
 $\Delta = 36^\circ 00'$
 $D_c = 6^\circ 00'$
 $R = 954.93'$
 $T = 310.28'$
 $L = 600.00'$
 $E = 49.14'$

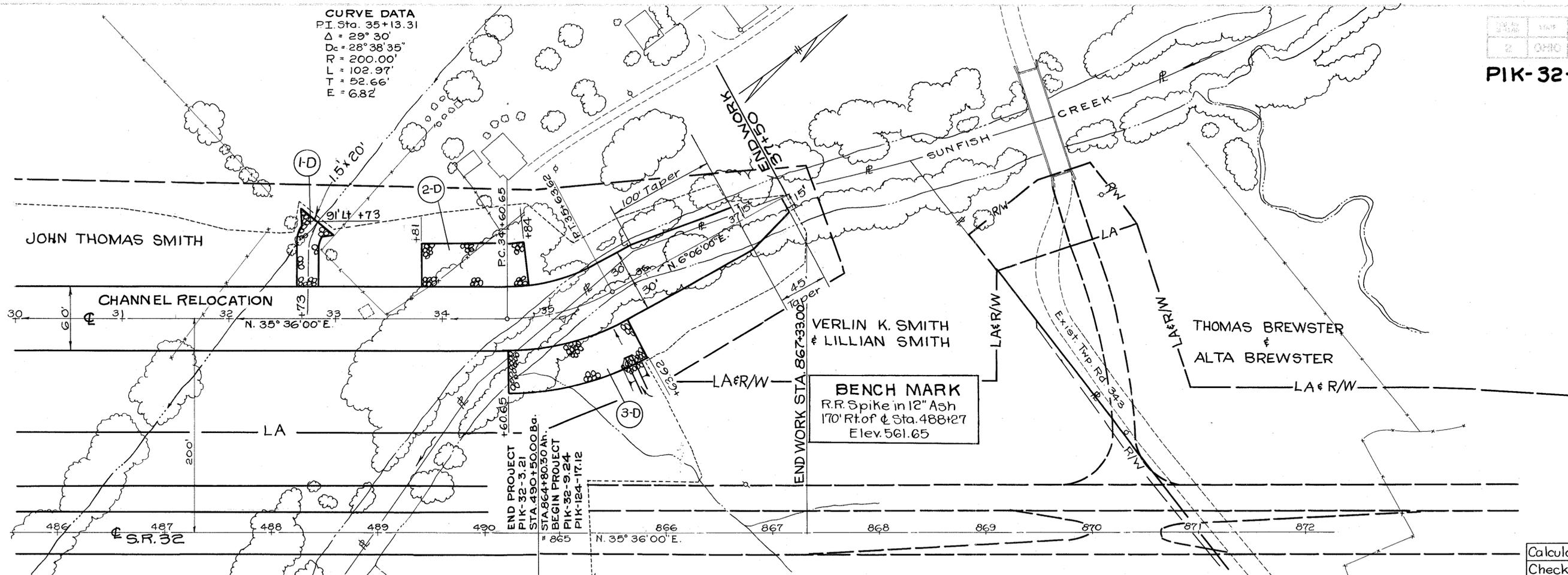
BENCH MARK
 R.R. Spike in 24" Syc.
 175' Rt. of Sta. 478+71
 Elev. 572.06



SUNFISH CREEK
STA. 15+00 TO STA. 30+00

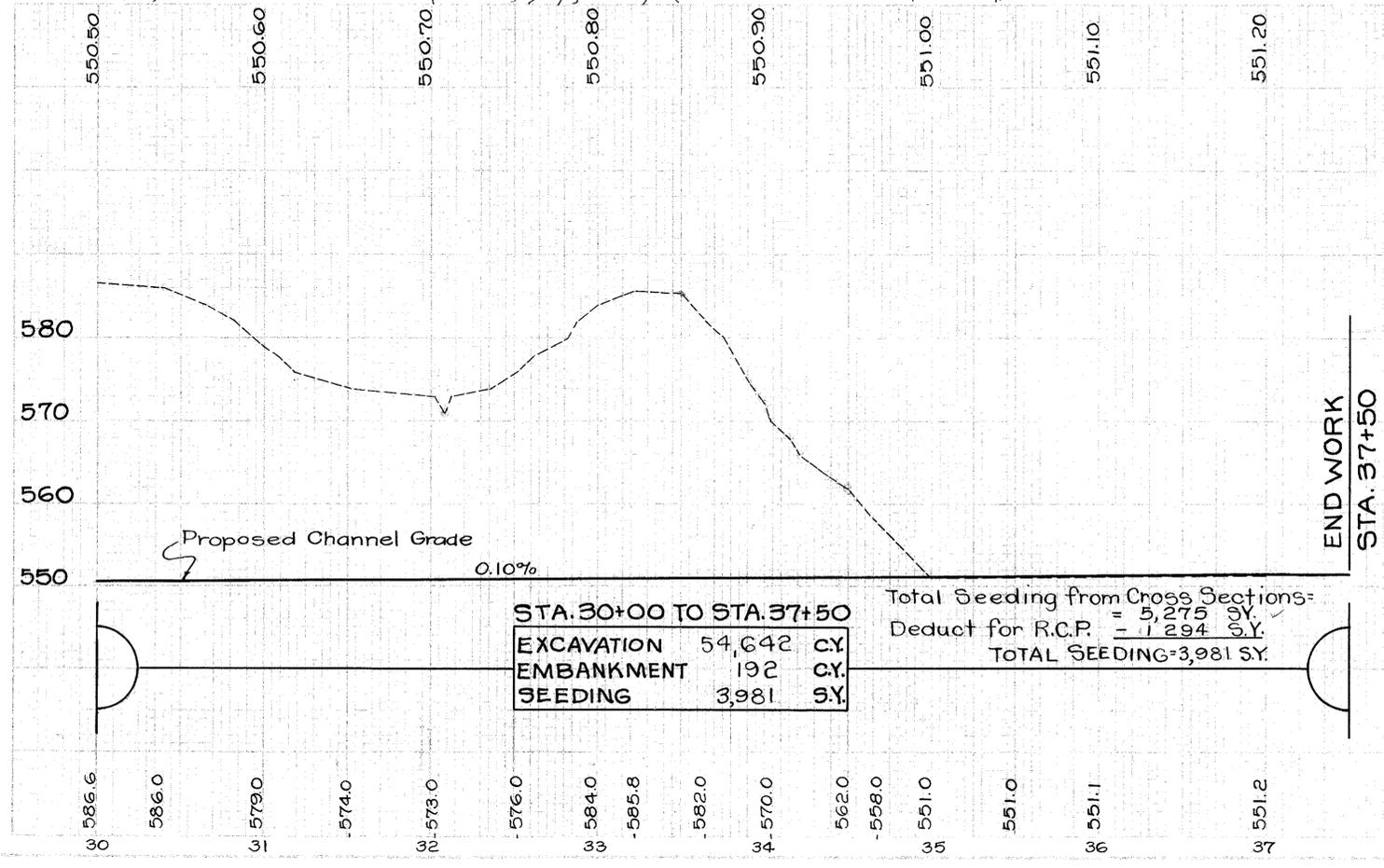
PIK-32-3.21

CURVE DATA
 P.I. Sta. 35+13.31
 $\Delta = 29^\circ 30'$
 $D_c = 28^\circ 38' 35''$
 $R = 200.00'$
 $L = 102.97'$
 $T = 52.66'$
 $E = 6.82'$



Calculations By: *EAP 11-69*
 Checked By: *Gay 2/12/70*

ESTIMATED QUANTITIES				
Ref. No.	Station to Station	Side	601	
			Rock Chan. Protec. Type B	S.Y.
1-D	32+73	Lt.	1489	24
2-D	33+81 to 34+84	Lt.		500
3-D	34+60.65 to 35+63.62	Rt.		645
SUBTOTAL			1489	1145
CONVERSION			x2:3	x2.5:3
TOTAL			1,053.0CY	

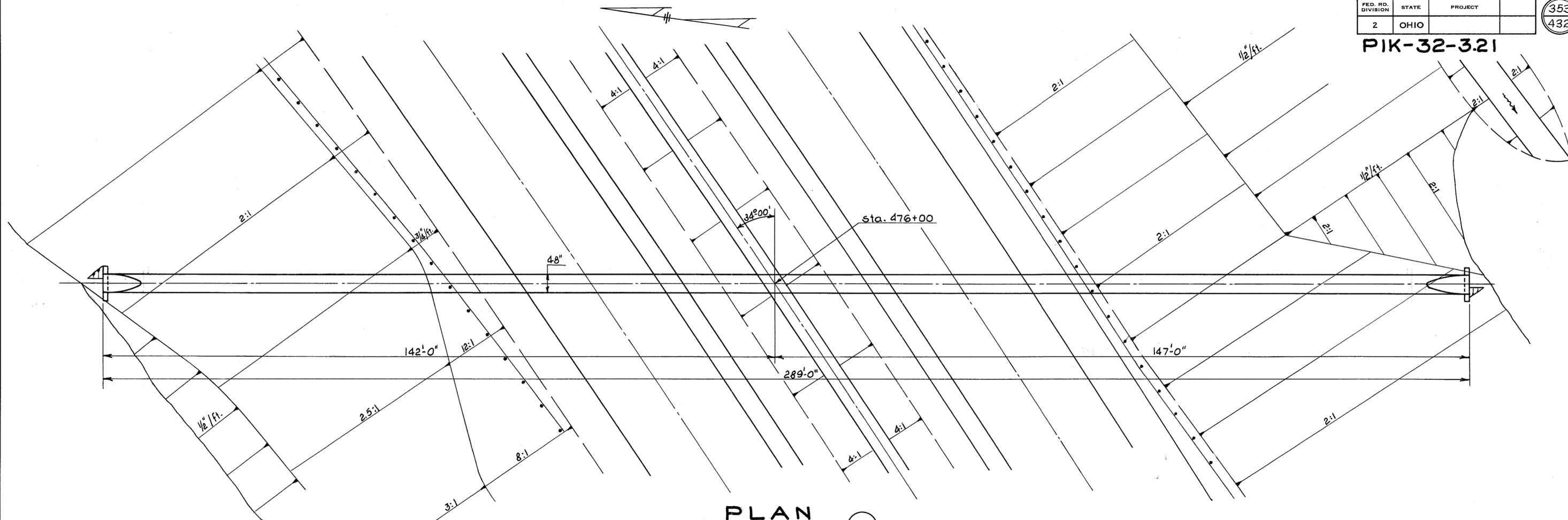


SUNFISH CREEK
 STA. 30+00 TO STA. 37+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

353
432

PIK-32-321

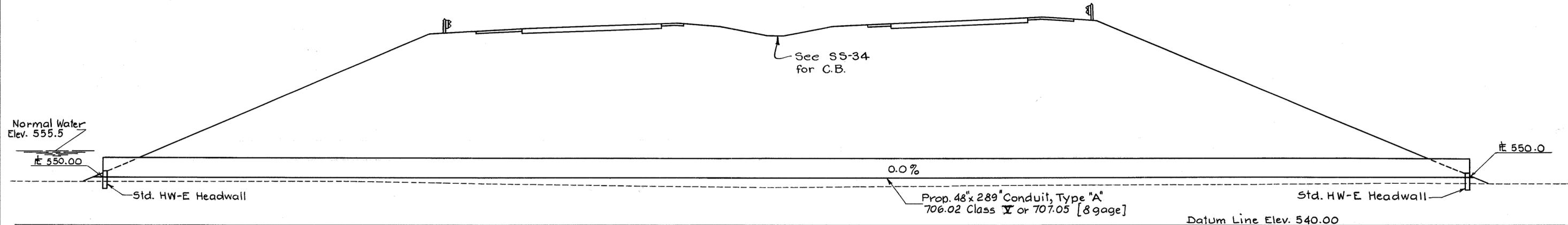


PLAN

27



DRAINAGE DATA
 Drainage Area = 123 Ac.
 Q₂₅ = 103 c.f.s.



SECTION

ESTIMATED QUANTITIES

602 Concrete Masonry	1.72 Cu. Yds.
603 48" Conduit Type "A", 706.02 Class V or 707.05 [8 gage].	289 Lin. Ft.

PIK - 32 - 0897

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
 Consulting Engineers
 249 S. Paint Street Chillicothe, Ohio

CULVERT DETAILS
STA. 476+00
S.R. 32

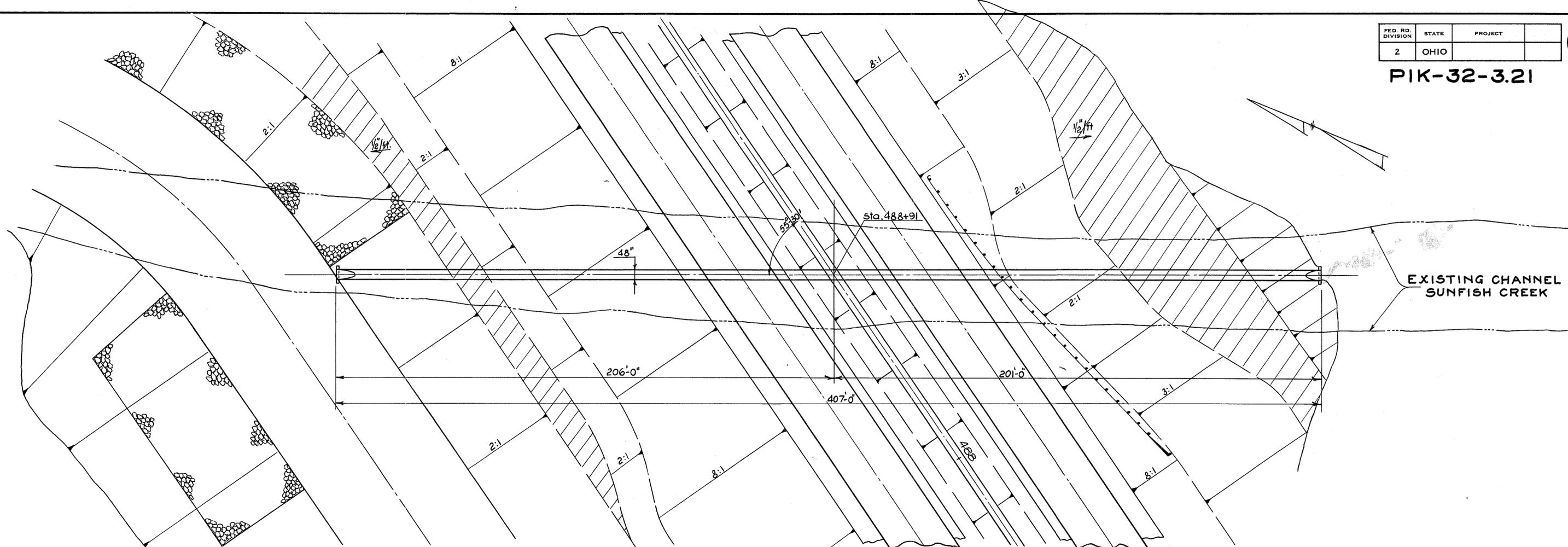
27

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.A.P.	L.R.P.	L.P.	EqP	FLW	2-14-70	

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

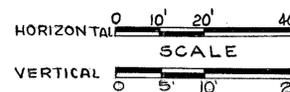
354
432

PIK-32-3.21



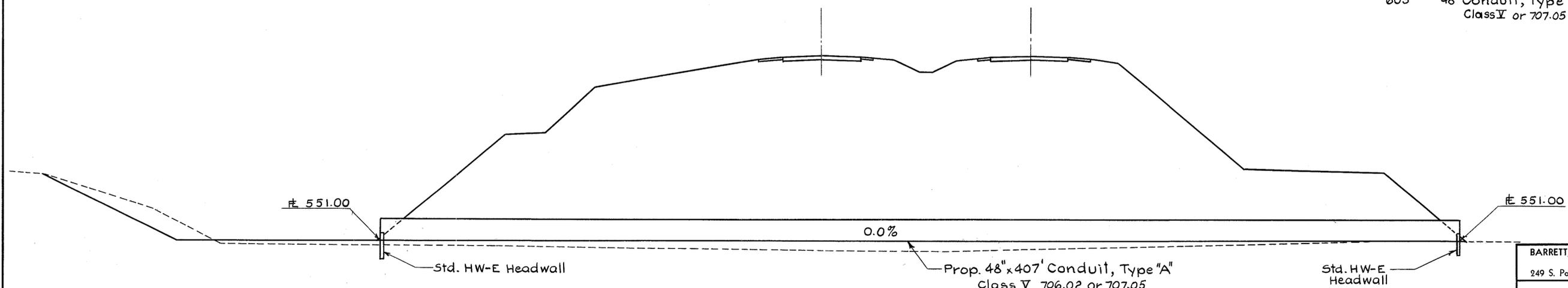
PLAN

(28)



ESTIMATED QUANTITIES

602	Concrete Masonry	1.72 Cu.Yds.
603	48" Conduit, Type "A" 706.02 Class V or 707.05 [8 Gage].	407 Lin. Ft.



SECTION

PIK-32-0921

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
 Consulting Engineers
 249 S. Point Street Chillicothe, Ohio

CULVERT DETAILS
STA. 488+91
S.R. 32

(28)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.A.P.	L.R.P.	L.P.	EAP	EAP	2-14-70	

**PIKE COUNTY
NEWTON TOWNSHIP
V.M.S. #2632**

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	APD 1128(17)	

427
432

**PIK-32-3.21
LIMITED ACCESS**

29
34

JOHN THOMAS SMITH

CURVE DATA
P.I. Sta. 473+14.89
 $\Delta = 32^{\circ}49'10''$ Lt.
Dc = $1^{\circ}30'$
Rc = 3819.72'
Ls = 200'
 $\Theta_s = 1^{\circ}30'$
 $\Delta_c = 29^{\circ}49'10''$
Lc = 1987.96'
Ts = 1225.04'
Es = 162.66'
Xc = 199.99'
Yc = 1.75'

R/W CURVE
P.C. Sta. 482+77.81
P.T. Sta. 484+11.14
 $\Delta = 1^{\circ}30'$
Dc = $1^{\circ}07'30''$
R = 5092.96'
L = 133.33'
T = 66.67'

BRONSON FARMER
(13.35 Acres Landlocked)

(27)
X

T.B.A. = 4.60 Ac.

(28)
X1

T.B.A. = 6.88 Ac.

(27)
WL

T.B.A. = 15.39 Ac.
P.R.O. = 0.83
NET = 14.56

(28)
WL

T.B.A. = 7.91 Ac.

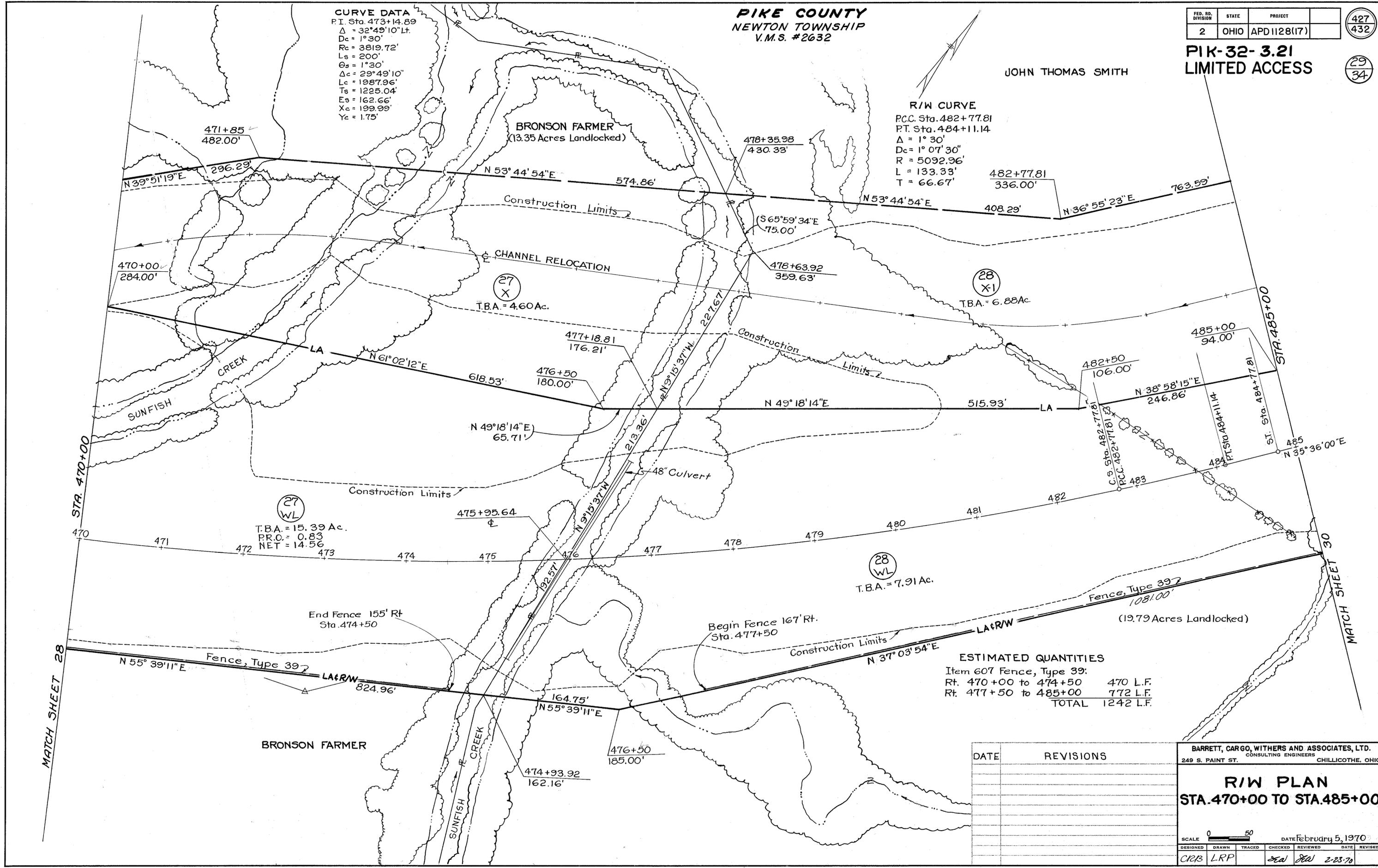
ESTIMATED QUANTITIES
Item 607 Fence, Type 39:
Rt. 470+00 to 474+50 470 L.F.
Rt. 477+50 to 485+00 772 L.F.
TOTAL 1242 L.F.

DATE	REVISIONS

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
CONSULTING ENGINEERS
249 S. PAINT ST. CHILLICOTHE, OHIO

**R/W PLAN
STA. 470+00 TO STA. 485+00**

SCALE	0	50	DATE	February 5, 1970
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
CRB	LRP			



PIKE COUNTY
NEWTON TOWNSHIP
V.M.S. # 2632

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	APD1128(17)	

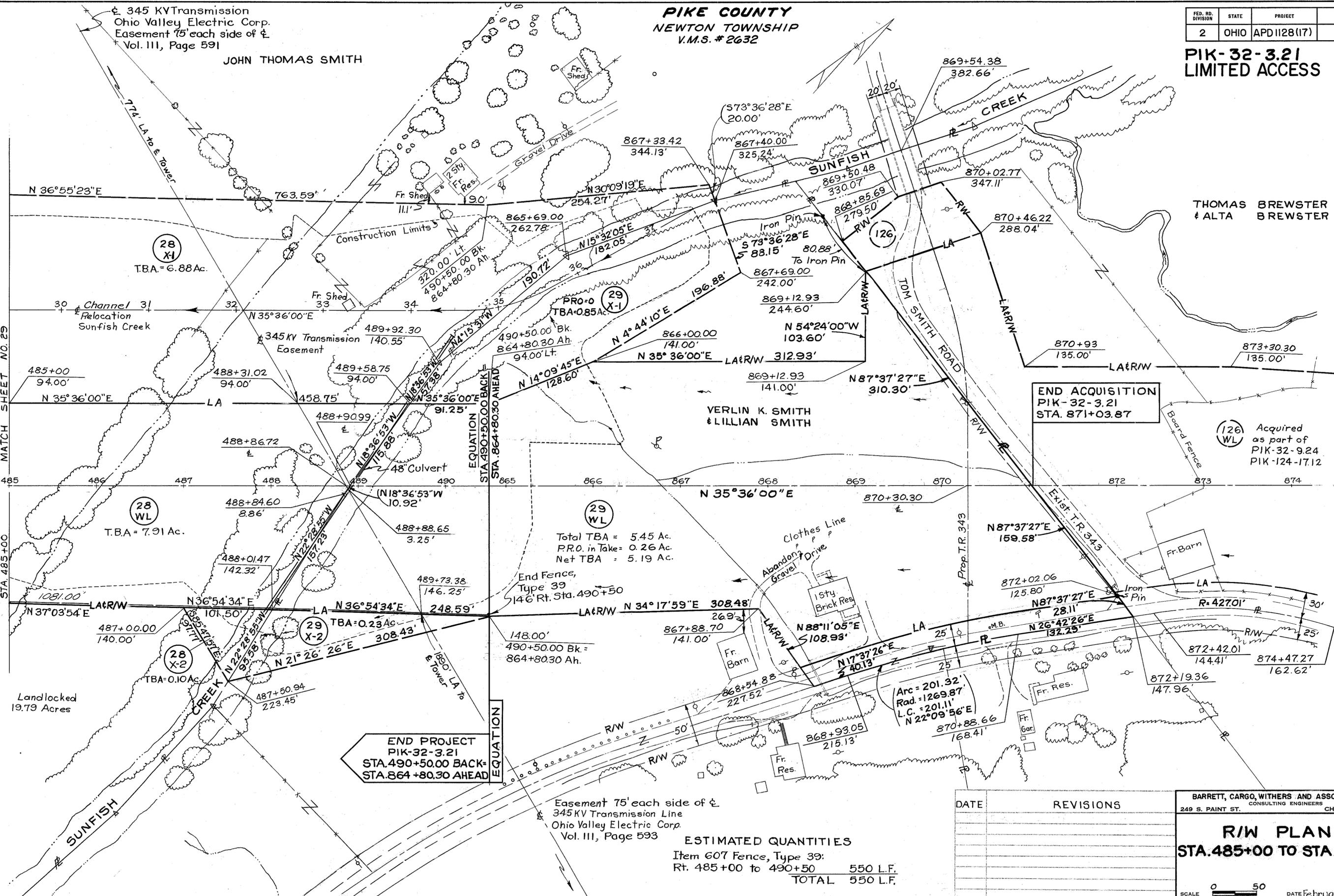
428
432
30
34

PIK-32-3.21
LIMITED ACCESS

JOHN THOMAS SMITH

THOMAS BREWSTER
 & ALTA BREWSTER

VERLIN K. SMITH
 & LILLIAN SMITH



MATCH SHEET NO. 29

STA. 485+00

Landlocked
19.79 Acres

END PROJECT
PIK-32-3.21
STA. 490+50.00 BACK-
STA. 864+80.30 AHEAD

Total TBA = 5.45 Ac.
 P.R.O. in Take = 0.26 Ac.
 Net TBA = 5.19 Ac.

Easement 75' each side of
 345 KV Transmission Line
 Ohio Valley Electric Corp.
 Vol. III, Page 593

ESTIMATED QUANTITIES
 Item 607 Fence, Type 39:
 Rt. 485+00 to 490+50 550 L.F.
TOTAL 550 L.F.

END ACQUISITION
PIK-32-3.21
STA. 871+03.87

(126) Acquired
 as part of
 PIK-32-9.24
 PIK-124-17.12

DATE	REVISIONS

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
 249 S. PAINT ST. CHILLICOTHE, OHIO

R/W PLAN
STA. 485+00 TO STA. 874+00

SCALE 0 50 DATE February 5, 1970

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CRB	L.R.P.	G.E.A.	Sea	Sea	2-23-70	