

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
2	OHIO	APD-1128(34)

1
432

PIK-32-3.21

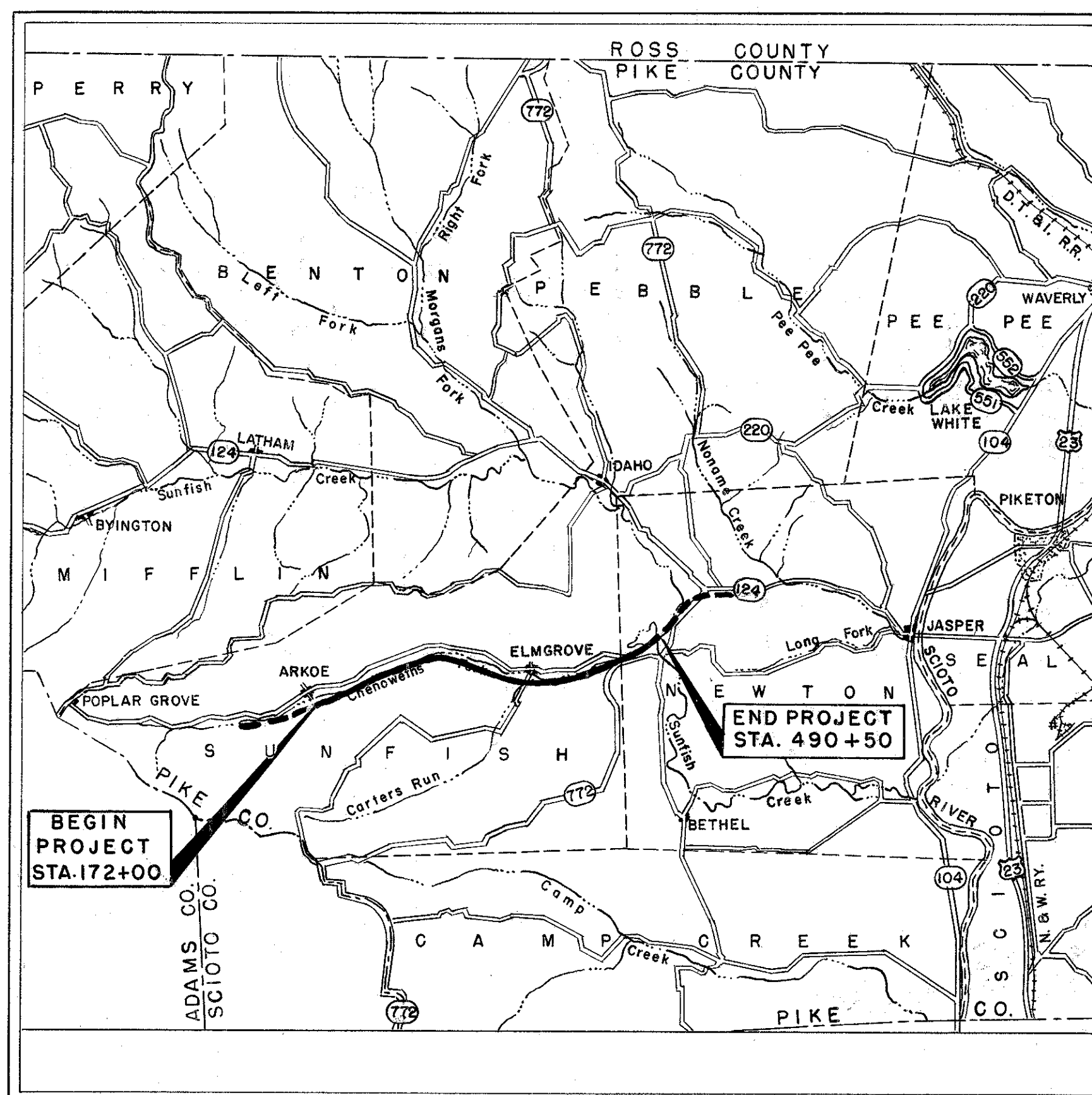
SUNFISH TOWNSHIP - NEWTON TOWNSHIP

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	
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	

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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	

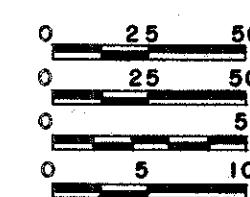
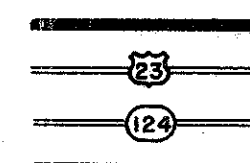
ADD FOR APPROACHES	
STATE ROUTE 32	TOWNSHIP ROAD 288
Sta. 166+47.00 to Sta. 169+53.16 = 306.16 Lin. Ft.	Sta. 14+56.00 to Sta. 19+54.80 = 498.80 Lin. Ft.
Sta. 864+80.30 to Sta. 867+33.00 = 252.70 Lin. Ft.	Sta. 20+45.20 to Sta. 23+17.00 = 271.80 Lin. Ft.
SERVICE ROAD "B"	SERVICE ROAD "A"
Sta. 88+42.01 to 98+60.00 = 1017.99 Lin. Ft.	Sta. 9+30.00 to Sta. 12+89.00 = 359.00 Lin. Ft.
TOWNSHIP ROAD 541	STATE ROUTE 772
Sta. 8+30.00 to Sta. 14+53.18 = 623.18 Lin. Ft.	Sta. 554+70.00 to Sta. 566+97.31 = 1,227.31 Lin. Ft.
Sta. 15+46.82 to Sta. 23+05.00 = 758.18 Lin. Ft.	TOTAL LENGTH OF APPROACHES = 7,607.30 Lin. Ft.
SERVICE ROAD "C"	NET LENGTH OF WORK = 31,849.67 Lin. Ft. + 7,607.30 Lin. Ft. = 39,456.97 Lin. Ft. OR 7.472 MILES.
Sta. 0+10.00 to Sta. 4+30.00 = 420.00 Lin. Ft.	
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.	



LOCATION MAP
SCALE OF MILES
0 1 2 3 4 5 6

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

SCALE



Portion to be improved
Federal Roads
State Roads
Other Roads

Plan
Profile: Horizontal
Profile: Vertical
Cross Sections

Supplemental Prints of Standard Construction Drawings											
BP-5	1-1-71	CB-6	6-1-65	GR-2B	11-9-71	MC-1	6-13-69	AS-1-67	6-12-69	801	1-1-69
BP-6	6-1-65	CB-8	9-1-69	GR-3	11-9-71	MC-3	6-20-69	P-1-54	11-8-65	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	SP-53	6-30-61	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

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.

Approved W. J. Rouse
Date 3-31-70 Division Deputy Director

Approved C. H. Altrater
Date 8-25-71 Engineer of Bridges

Approved E. J. Schaefer
Date 8-18-71 Engineer of Location & Design

Approved H. L. Kinnison
Date 8-18-71 Deputy Director of Design & Construction

Approved R. L. Neelinger
Date 8-31-71 Deputy Director of Right of Way

Approved William P. M. Kenna
Date 9-2-71 Deputy Director of Planning & Programming

Approved William P. M. Kenna
Date 9-2-71 First Assistant Director

Approved Phillip R. Rely
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

Rev. 1-21-72

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

TYPE 404 ON 301



DEDUCTION FOR BRIDGES AND APPROACH SLABS

TOTAL LENGTH	= 19,475.00 Lin.Ft.
DEDUCT FOR BRIDGES	223.00 Lin. Ft.
NET LENGTH	= 19,252.00 Lin.Ft.

DEEP PIPE UNDERDRAIN
SECTION



TOTAL LENGTH	=	12,374.67 Lin.Ft.
DEDUCT FOR BRIDGES		234.66 Lin.Ft
NET LENGTH	=	12,140.01 Lin. Ft.



⑧ The 404 surface material shall be placed using a hot longitudinal joint.

- ## 605 AGGREGATE DRAINS

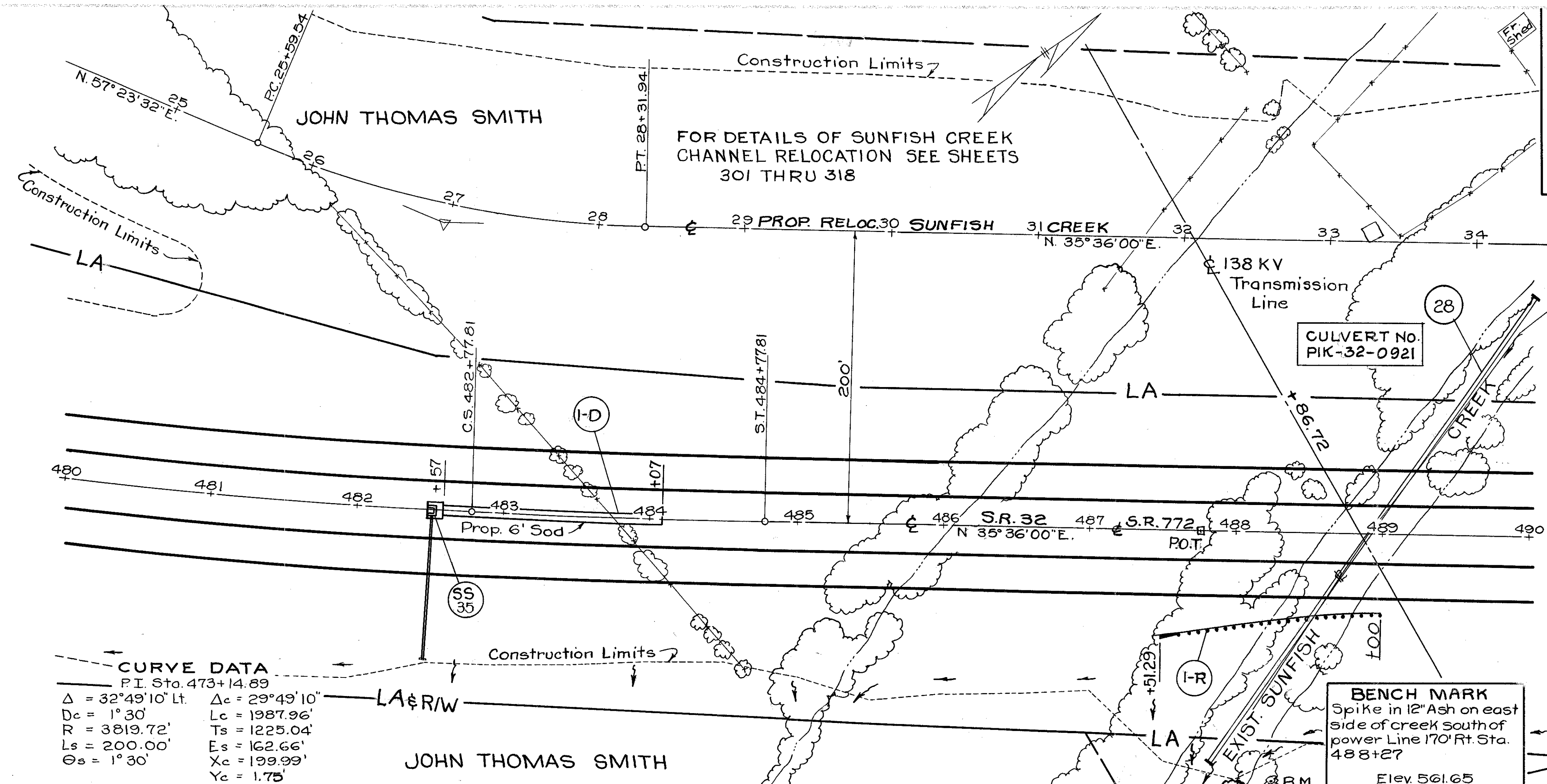
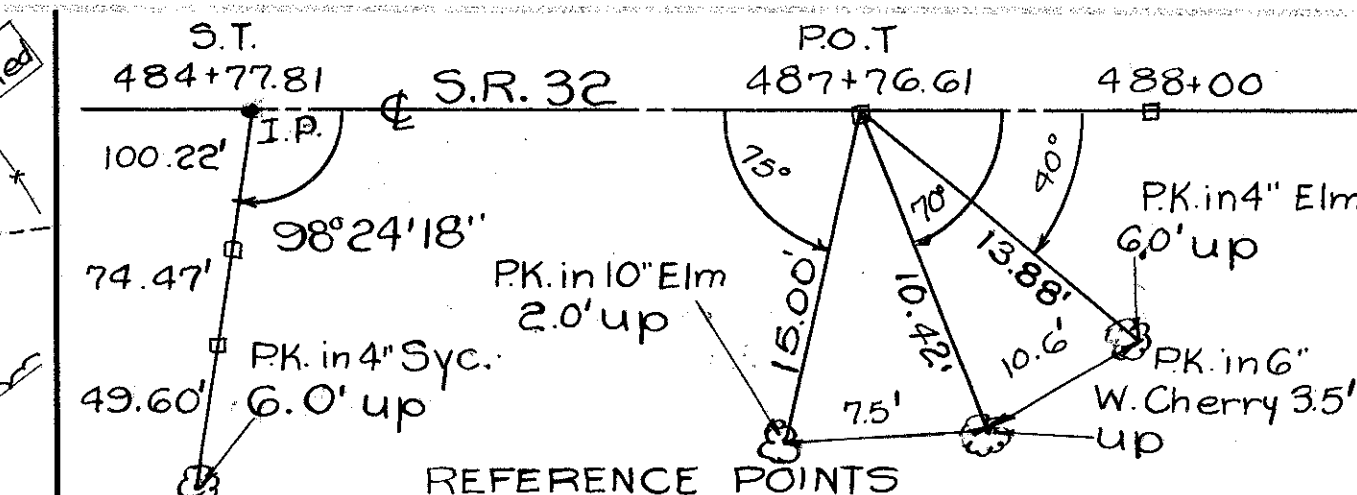
DEDUCTIONS FOR PIPE UNDERDRAINS

Eastbound Sta. to Sta.	Lin. Ft.	Westbound Sta. to Sta.	Lin. Ft.
172+00 to 177+00	500	201+50 to 211+00	950
201+50 to 211+50	1 000	278+00 to 287+50	950
223+00 to 232+50	950	309+00 to 314+00	500
276+50 to 283+35	685	459+00 to 463+00	400
305+50 to 322+77	1 727		
382+00 to 395+50	1 350		
419+00 to 460+50	4 150		
TOTAL	10,362	TOTAL	2,800
Total Deduction = 10,362 + 2,800 = 13,162 Lin. Ft.			

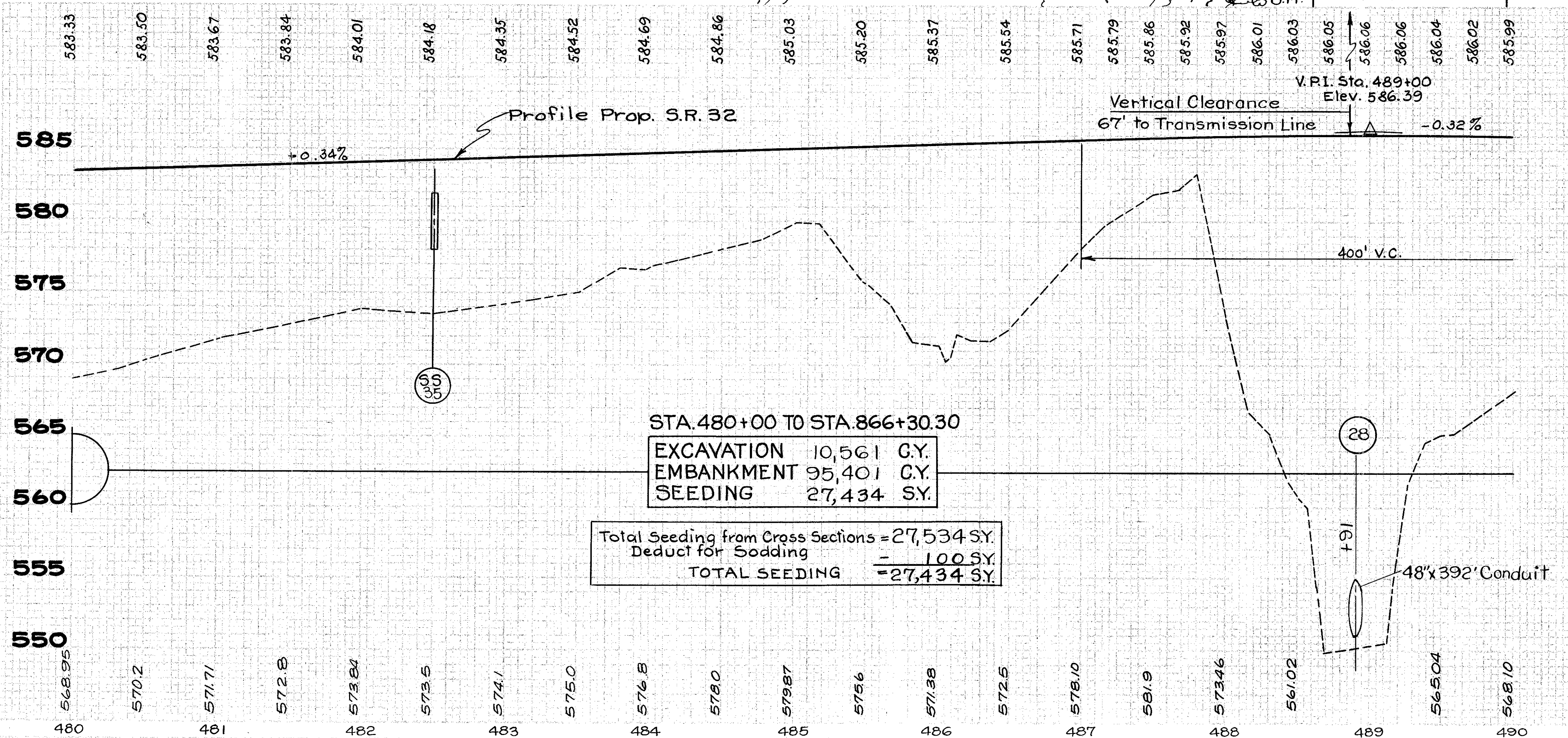
BR. No.	Station to Station	Lin. Ft.
0881	465+07.68-467+42.34	234.66
Deduct from Typ. Sec. "B"		234.66

SCALE			DATE			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	ELS	ELS	SEW			

PIK-32-3.21



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



STA. 480+00 TO STA. 866+30.30
 EXCAVATION 10,561 C.Y.
 EMBANKMENT 95,401 C.Y.
 SEEDING 27,434 S.Y.

Total Seeding from Cross Sections = 27,534 S.Y.
 Deduct for Sodding = 100 S.Y.
 TOTAL SEEDING = 27,434 S.Y.

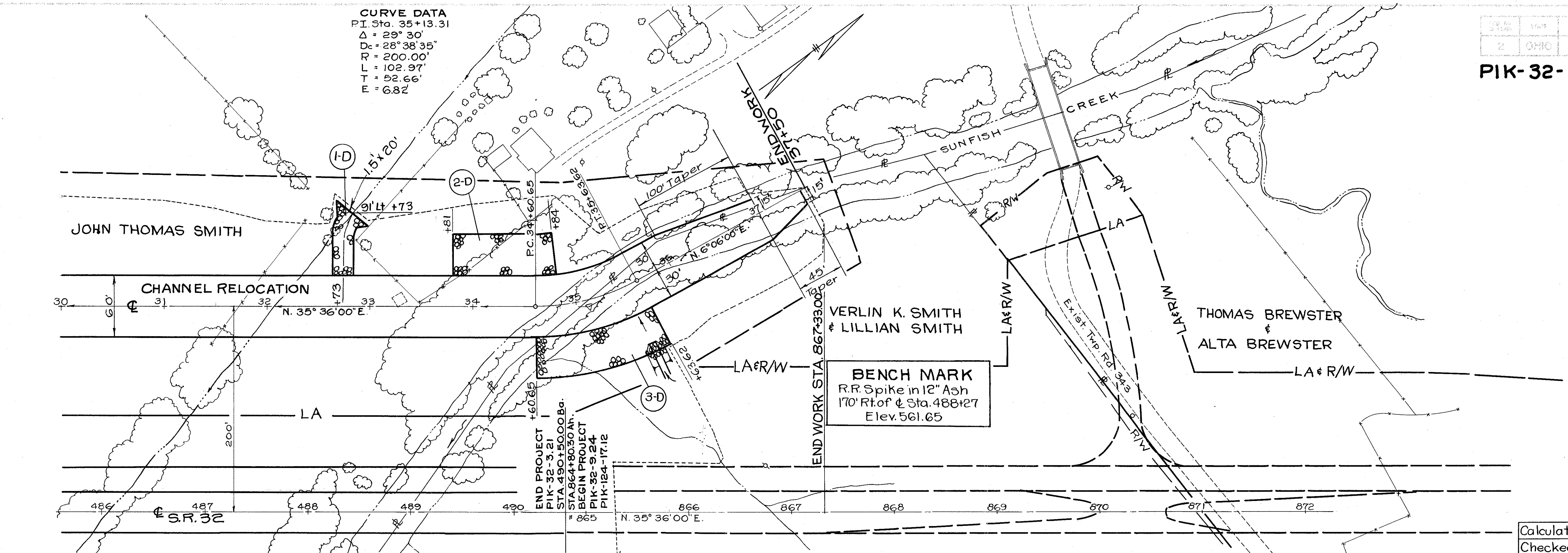
ESTIMATED QUANTITIES

Station	Description	Unit	Quantity	Station	Description	Unit	Quantity
480+00 to 481+00	Sodding	S.Y.	100	480+00 to 481+00	Std. No. 8 Catch Basin	Each	1
481+00 to 482+00	12" Conduit Type "B"	L.F.	102	481+00 to 482+00	Concrete Masonry	C.Y.	0.23
482+00 to 483+00	Anchor Assembly	Each	2	482+00 to 483+00	Guard Rail Type 5	L.F.	100
483+00 to 484+00	Side	Rt.	2	483+00 to 484+00	Station to Station	Rt.	10000
484+00 to 485+00	See Sheet No.			484+00 to 485+00	Reference No.		
485+00 to 486+00				485+00 to 486+00			
486+00 to 487+00				486+00 to 487+00			
487+00 to 488+00				487+00 to 488+00			
488+00 to 489+00				488+00 to 489+00			
489+00 to 490+00				489+00 to 490+00			
TOTALS				TOTALS			

Calculated BY: *Pop 11-69*
 Checked BY: GEA. 1-20-70
STA. 480+00 TO STA. 490+00

PIK-32-3.21

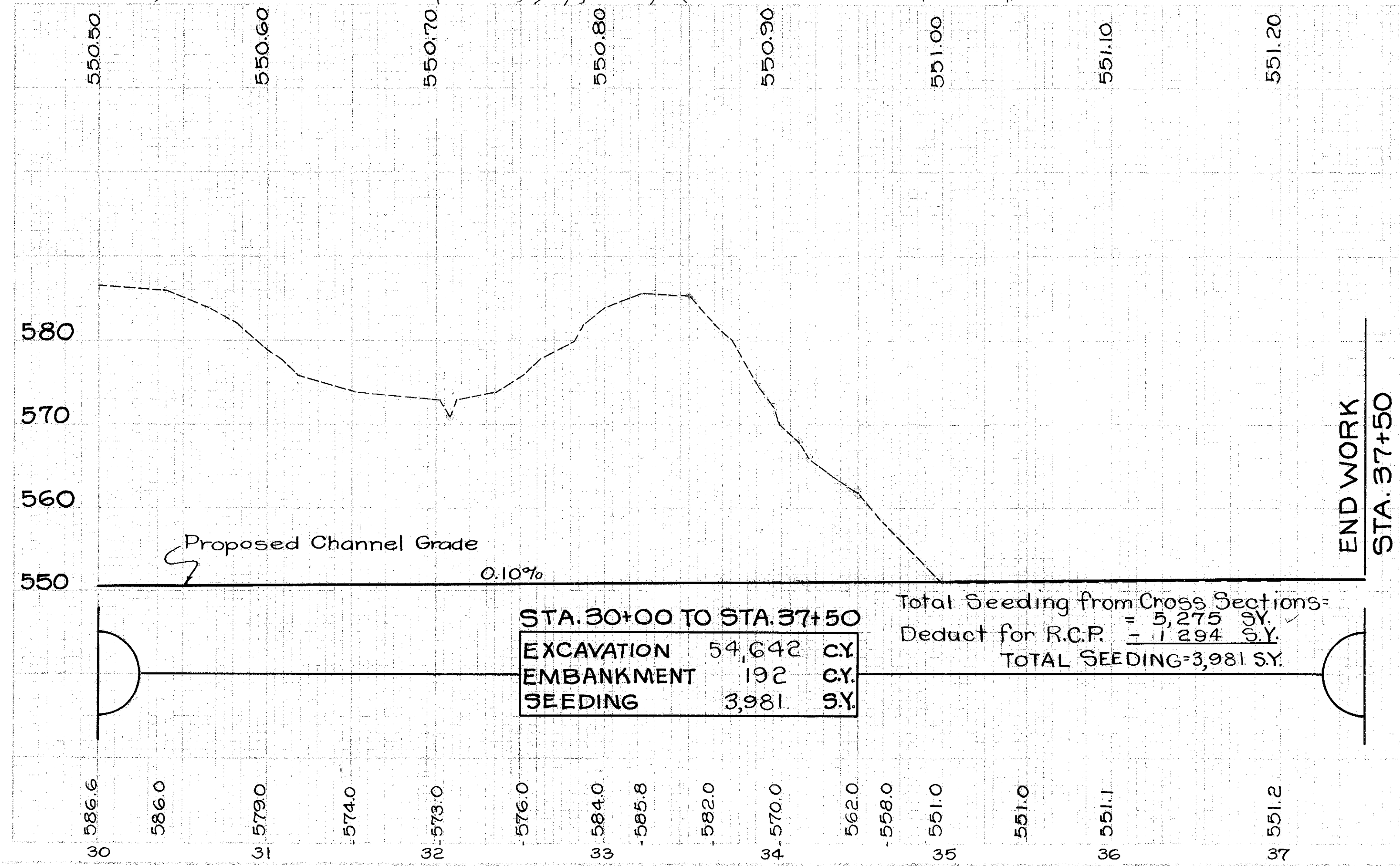
CURVE DATA
 P.I. Sta. 35+13.31
 $\Delta = 29^\circ 30'$
 $D_c = 28^\circ 38' 35''$
 $R = 200.00'$
 $L = 102.97'$
 $T = 52.66'$
 $E = 6.82'$



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

ESTIMATED QUANTITIES

Ref. No.	Station to Station	Side	601 Type B	Chan. Protec. 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			1,053.00 CY	

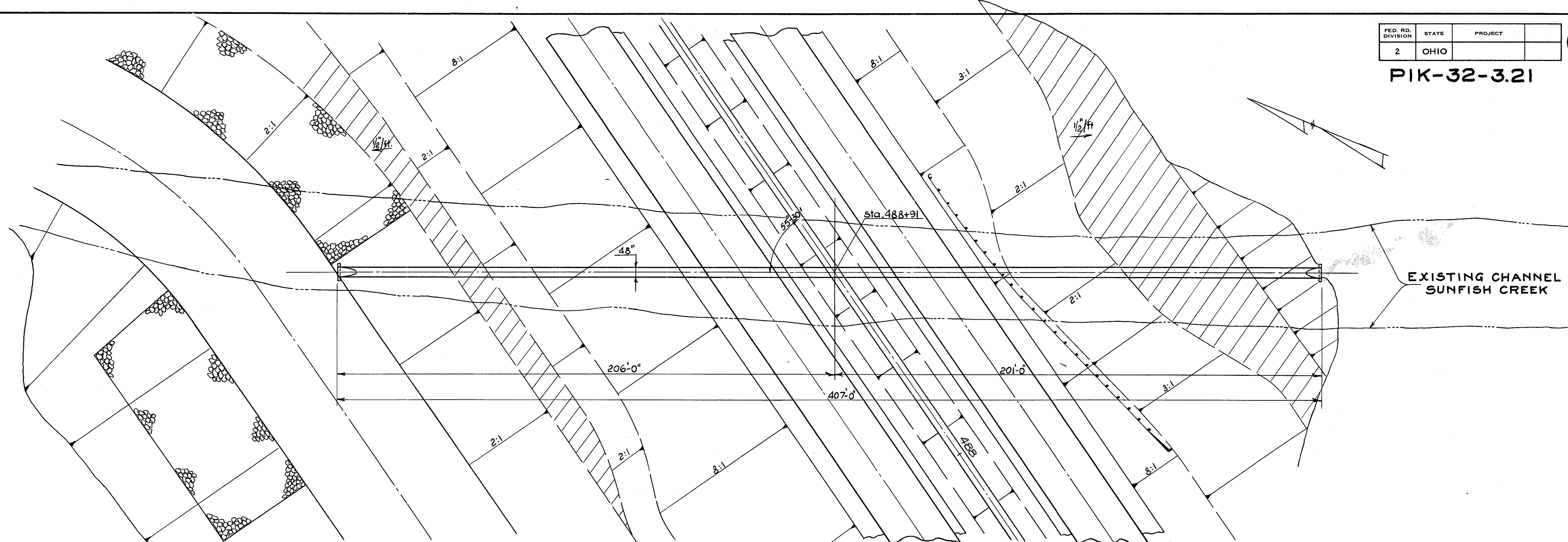


STA. 30+00 TO STA. 37+50		
EXCAVATION	54,642	CY
EMBANKMENT	192	CY
SEEDING	3,981	S.Y.

Total Seeding from Cross Sections:
 Deduct for R.C.P. = 1,294 S.Y.
 TOTAL SEEDING = 3,981 S.Y.

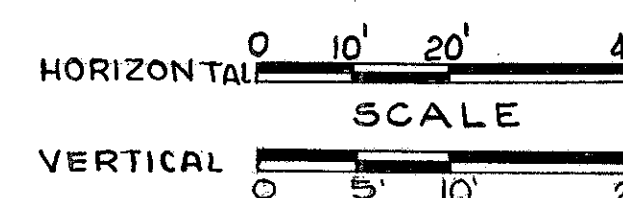
SUNFISH CREEK
STA. 30+00 TO STA. 37+00

PIK-32-3.21



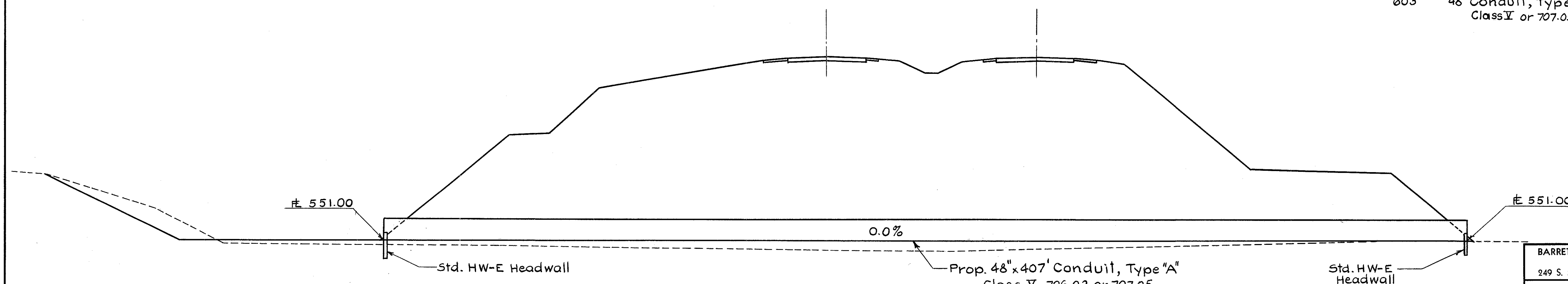
PLAN

(28)



ESTIMATED QUANTITIES

602	Concrete Masonry	1.72 Cu.Yds.
603	48" Conduit, Type "A" 706.02 Class II 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	

345 KV Transmission
Ohio Valley Electric Corp.
Easement 75' each side of C
Vol. III, Page 591

JOHN THOMAS SMITH

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

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	APD1128(17)

428
432

PIK-32-3.21
LIMITED ACCESS

30
34

THOMAS BREWSTER
& ALTA BREWSTER

VERLIN K. SMITH
& LILLIAN SMITH

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

Acquired
as part of
PIK-32-9.24
PIK-124-17.12

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

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

Easement 75' each side of C
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.

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	