

000002

# DELAWARE COUNTY, OHIO

## ALUM CREEK INTERCEPTOR SANITARY SEWER

CONTRACT "S 74-1"  
PART B FORCE MAINS

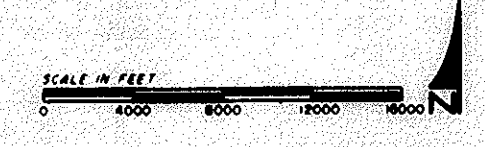
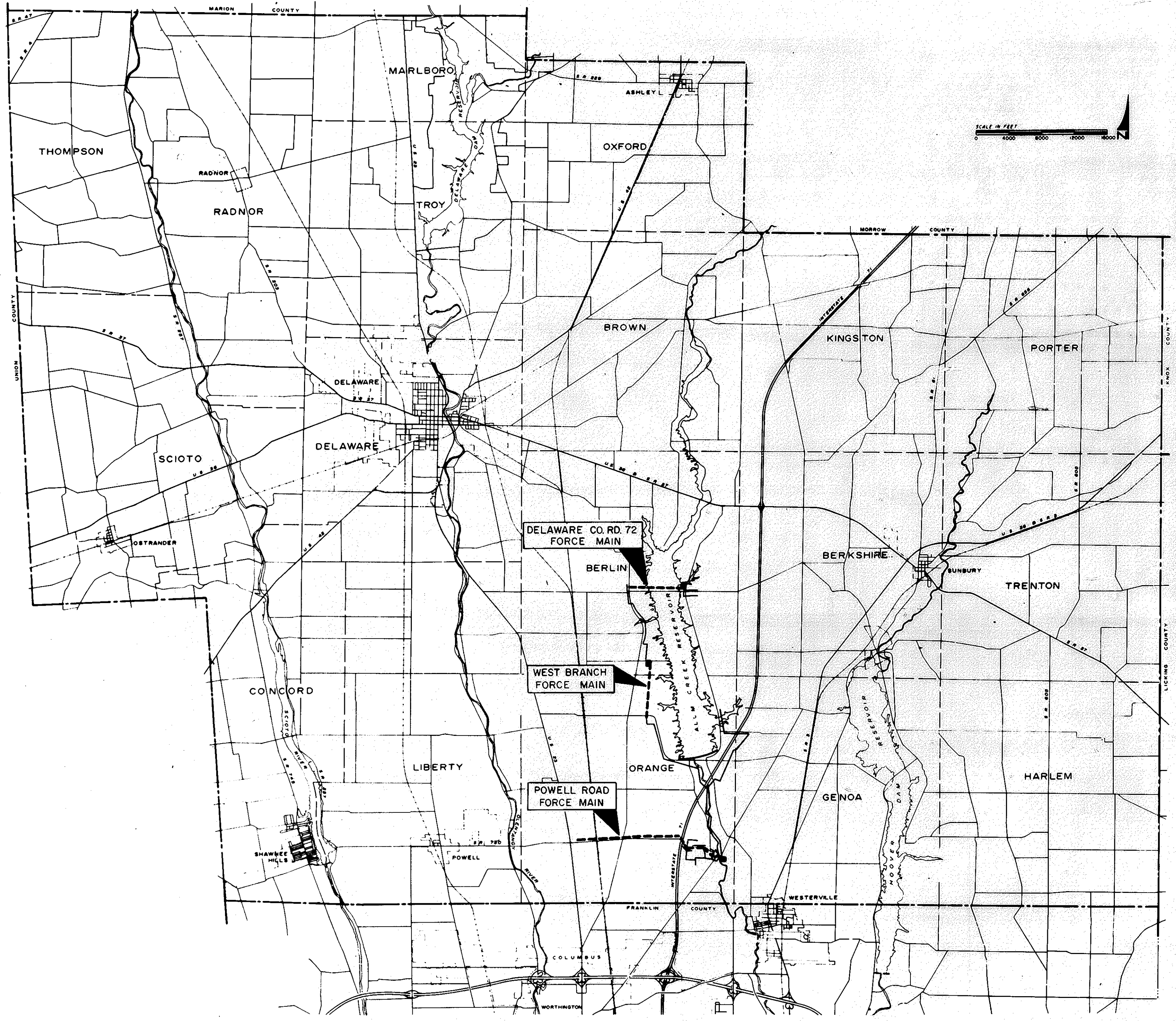
### COUNTY STAFF

FRED L. STULTS  
DOROTHY CONANT  
HENRY E. SHAW  
DAVID R. THOMAS  
MADGE CONKLIN  
TOM ELLIOT  
GARY W. GILBERT

COUNTY ENGINEER  
COUNTY RECORDER  
PROSECUTING ATTORNEY  
COUNTY AUDITOR  
COUNTY TREASURER  
DIRECTOR PLANNING COMMISSION  
ASSISTANT SANITARY ENGINEER

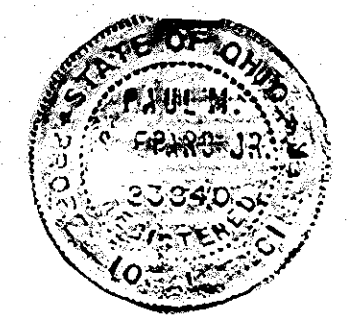
### BOARD OF COUNTY COMMISSIONERS

DEAN MILLER - KENNETH REED - JAMES WHITNEY



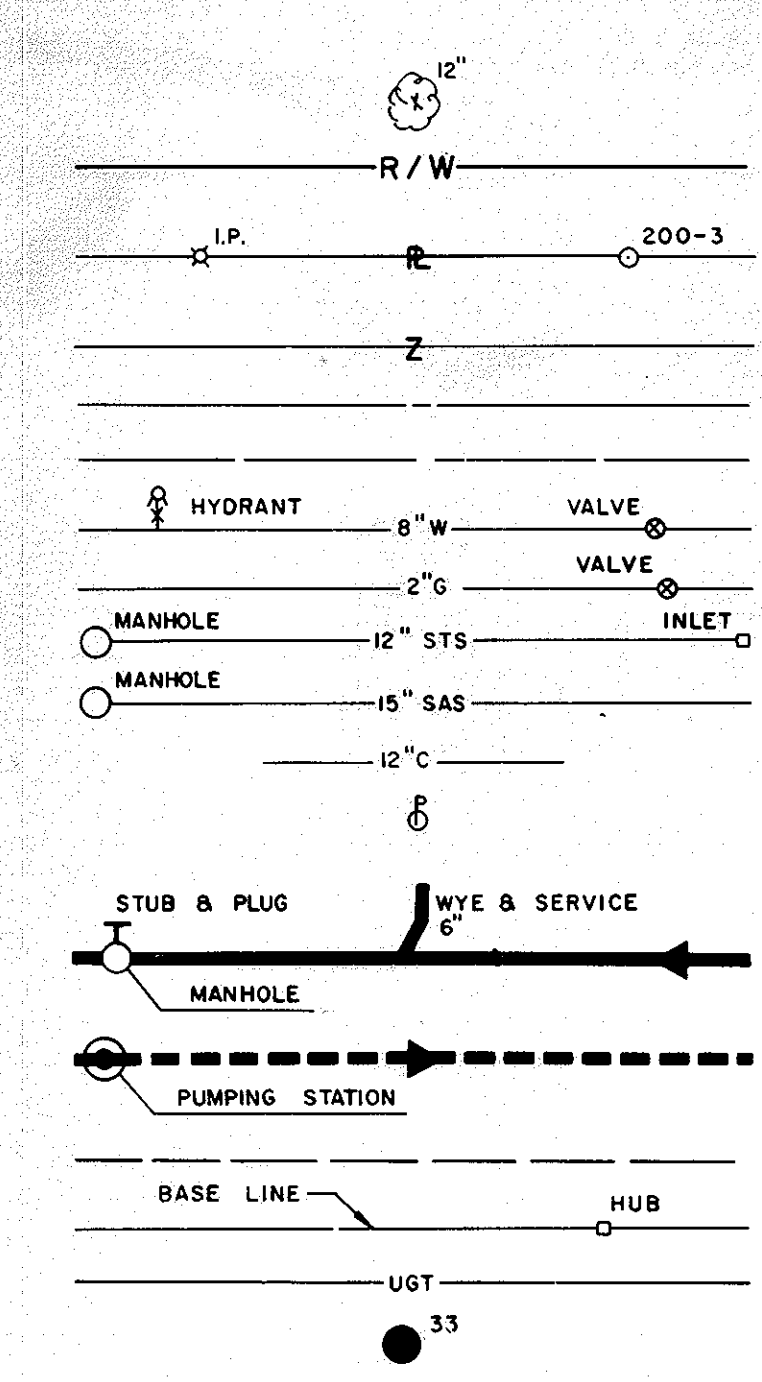
DELAWARE COUNTY  
VICINITY MAP  
NO SCALE

APPROVED THIS 9<sup>TH</sup> DAY OF APRIL, 1975  
*Fred L. Stults*  
Fred L. Stults, Delaware County Sanitary Engineer



BURGESS & NIPLE, LIMITED  
CONSULTING ENGINEERS  
COLUMBUS, OHIO  
APRIL 1975  
REVISED SEPTEMBER 1975  
REVISED MAY 1976  
REVISED OCTOBER 1976

PLANS PREPARED BY *Paul M. Shepard*  
PAUL M. SHEPARD JR., P.E. NO. 23840



### LEGEND

- TREE
- RIGHT OF WAY LINE
- PROPERTY LINE, IRON PIN AND U.S. ARMY CORPS OF ENGINEERS MONUMENT
- SAME OWNERSHIP
- CENTERLINE
- EDGE OF PAVEMENT
- WATER MAIN
- GAS MAIN
- STORM SEWER
- SANITARY SEWER
- CULVERT
- POWER POLE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCE MAIN
- PROPOSED EASEMENT
- BASE LINE
- UNDERGROUND TELEPHONE CABLE
- TEST BORING

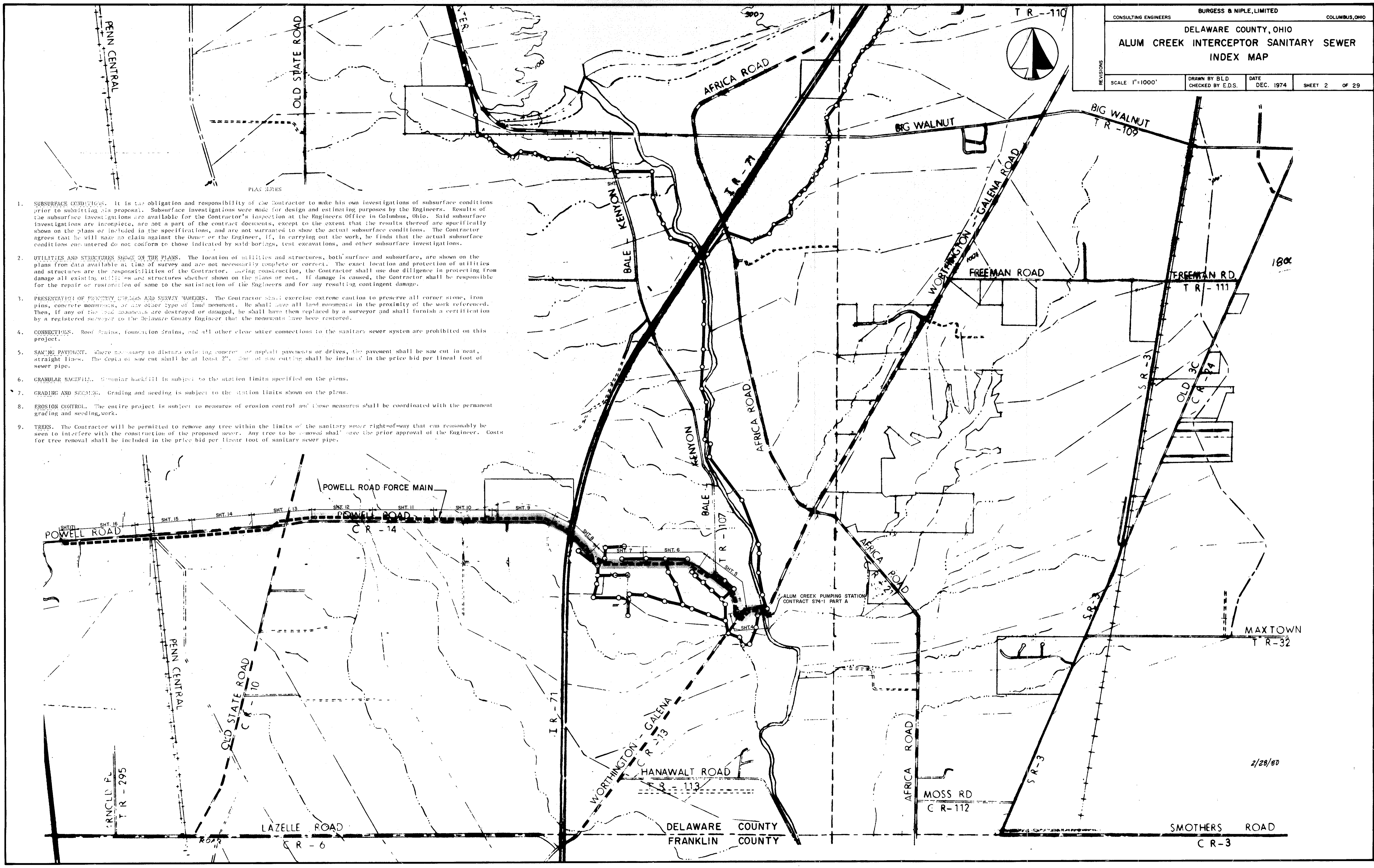
2/28/80

S-74-1 B

BURGESS & NIPLE, LIMITED  
 CONSULTING ENGINEERS  
 DELAWARE COUNTY, OHIO  
 ALUM CREEK INTERCEPTOR SANITARY SEWER  
 INDEX MAP

SCALE 1"=1000'  
 DRAWN BY BLD  
 CHECKED BY E.D.S.  
 DATE DEC. 1974  
 SHEET 2 OF 29

- SUBSURFACE CONDITIONS.** It is the obligation and responsibility of the Contractor to make his own investigations of subsurface conditions prior to submitting his proposal. Subsurface investigations were made for design and estimating purposes by the Engineers. Results of the subsurface investigations are available for the Contractor's inspection at the Engineers Office in Columbus, Ohio. Said subsurface investigations are incomplete, are not a part of the contract documents, except to the extent that the results thereof are specifically shown on the plans or included in the specifications, and are not warranted to show the actual subsurface conditions. The Contractor agrees that he will make no claim against the Owner or the Engineer, if, in carrying out the work, he finds that the actual subsurface conditions encountered do not conform to those indicated by said borings, test excavations, and other subsurface investigations.
- UTILITIES AND STRUCTURES SHOWN ON THE PLANS.** The location of utilities and structures, both surface and subsurface, are shown on the plans from data available at time of survey and are not necessarily complete or correct. The exact location and protection of utilities and structures are the responsibilities of the Contractor. During construction, the Contractor shall use due diligence in protecting from damage all existing utilities and structures whether shown on the plans or not. If damage is caused, the Contractor shall be responsible for the repair or restoration of same to the satisfaction of the Engineers and for any resulting contingent damage.
- PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS.** The Contractor shall exercise extreme caution to preserve all corner stone, iron pins, concrete monuments, or any other type of land monument. He shall have all land monuments in the proximity of the work referenced. Then, if any of the land monuments are destroyed or damaged, he shall have them replaced by a surveyor and shall furnish a certification by a registered surveyor to the Delaware County Engineer that the monuments have been restored.
- CONNECTIONS.** Roof drains, foundation drains, and all other clear water connections to the sanitary sewer system are prohibited on this project.
- SAWING PAVEMENT.** Where necessary to disturb existing concrete or asphalt pavements or drives, the pavement shall be saw cut in neat, straight lines. The depth of saw cut shall be at least 2". One of saw cutting shall be included in the price bid per linear foot of sewer pipe.
- GRANULAR BACKFILL.** Granular backfill is subject to the station limits specified on the plans.
- GRADING AND SEEDING.** Grading and seeding is subject to the station limits shown on the plans.
- EROSION CONTROL.** The entire project is subject to measures of erosion control and these measures shall be coordinated with the permanent grading and seeding work.
- TREES.** The Contractor will be permitted to remove any tree within the limits of the sanitary sewer right-of-way that can reasonably be seen to interfere with the construction of the proposed sewer. Any tree to be removed shall have the prior approval of the Engineer. Costs for tree removal shall be included in the price bid per linear foot of sanitary sewer pipe.

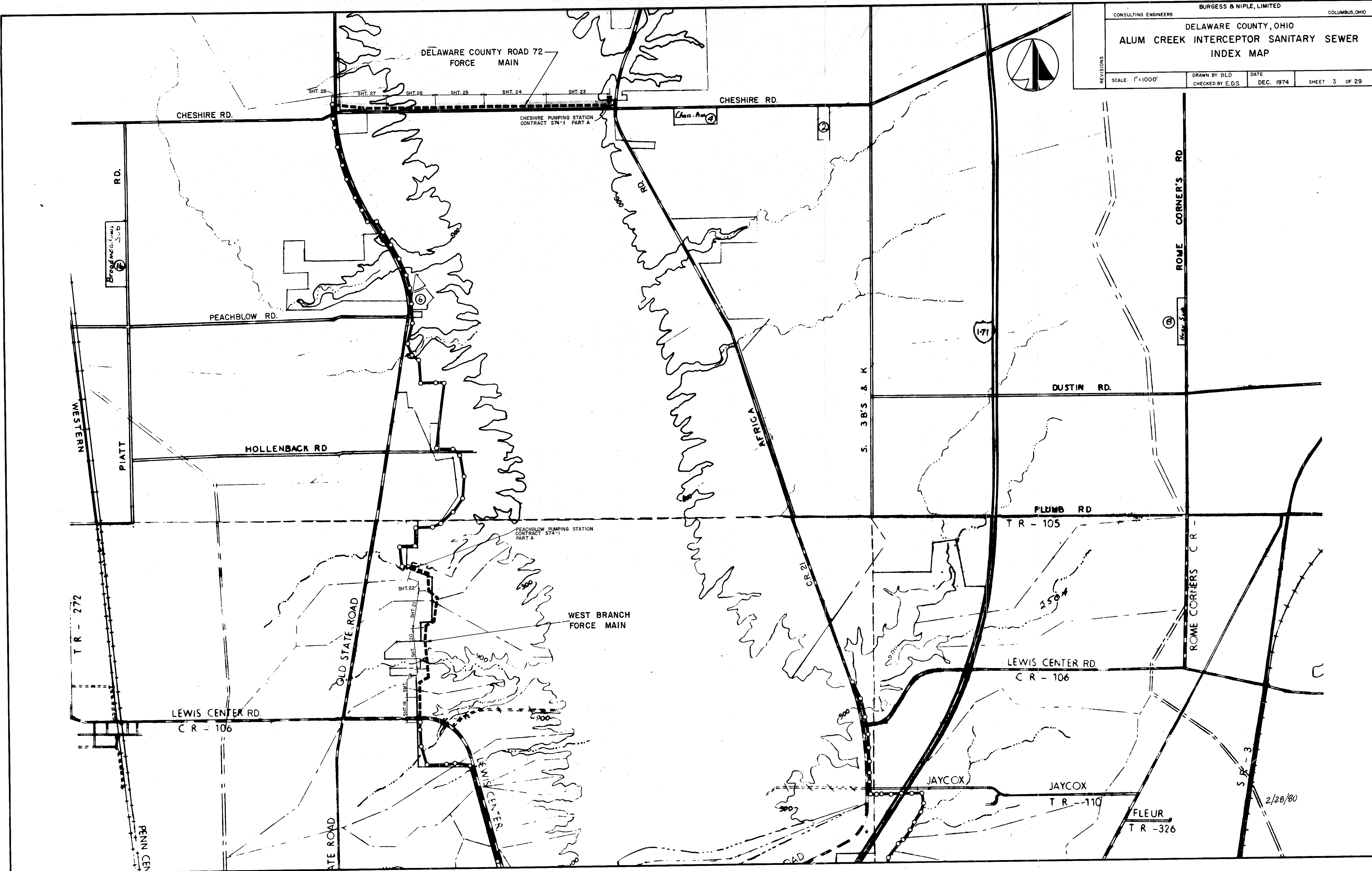


2/28/80

CONSULTING ENGINEERS **BURGESS & NIPLÉ, LIMITED** COLUMBUS, OHIO

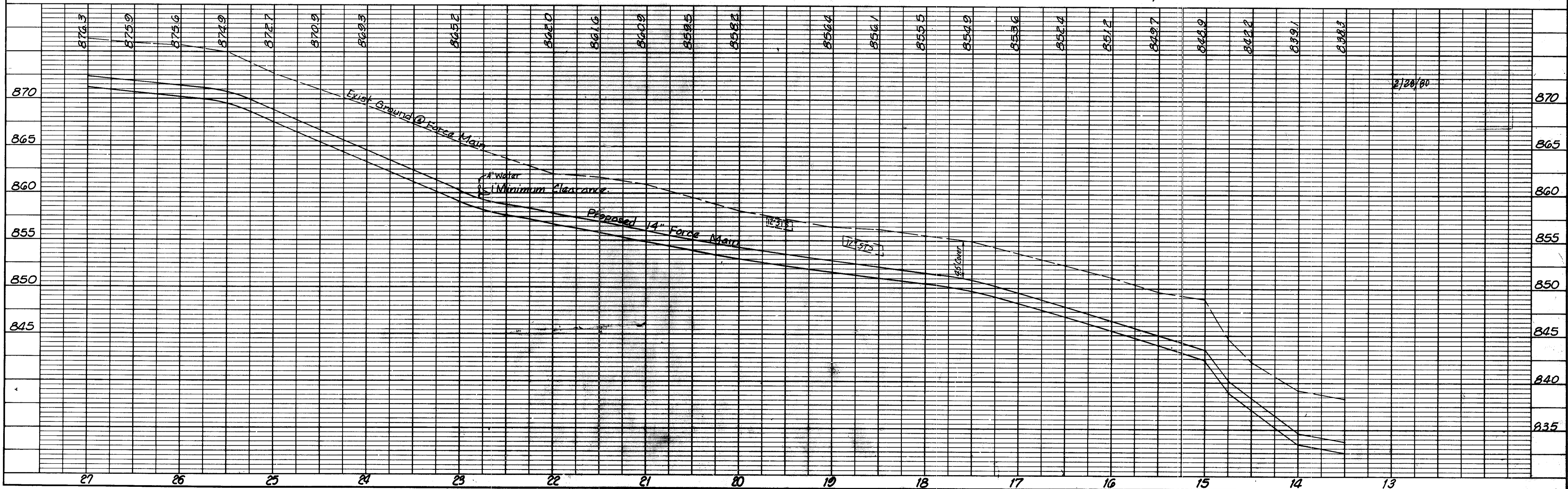
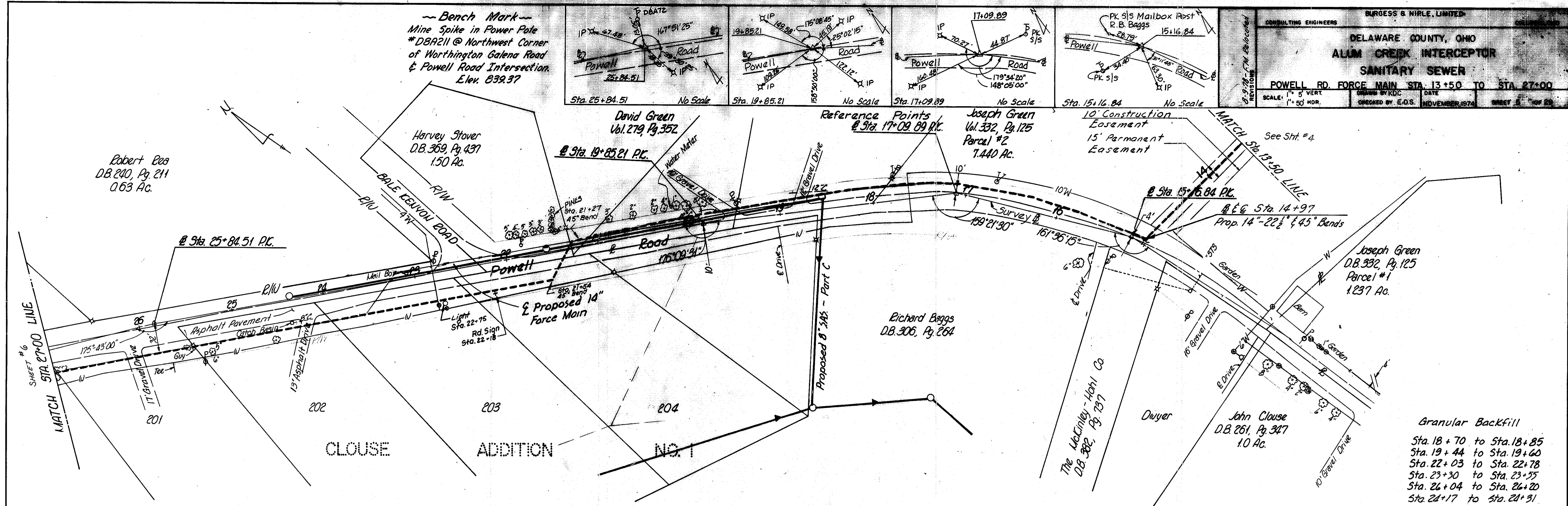
DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR SANITARY SEWER  
INDEX MAP**

SCALE: 1"=1000' DRAWN BY BLD CHECKED BY E.D.S. DATE DEC. 1974 SHEET 3 OF 29





CONSULTING ENGINEERS  
**BURGESS & NIRLE, LIMITED**  
 DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR  
 SANITARY SEWER**  
**POWELL RD. FORCE MAIN STA. 13+50 TO STA. 27+00**  
 SCALE: 1" = 5' VERT. DATE: NOVEMBER, 1974  
 1" = 50' HOR. CHECKED BY: E.O.S. SHEET 5 OF 20



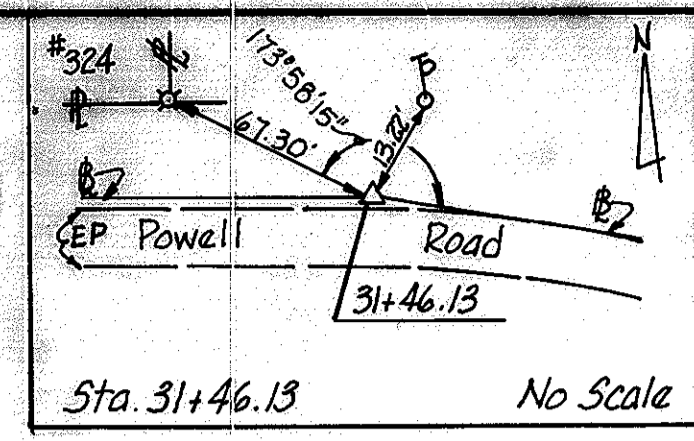
**PLAN**  
 SURVYED: \_\_\_\_\_  
 NOTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIQUOT CHECKED: \_\_\_\_\_  
 No. 72-111

**PROFILE**  
 SURVYED: \_\_\_\_\_  
 NOTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIQUOT CHECKED: \_\_\_\_\_  
 No. 72-111

PLATE 1 PLAN-PROFILE B P R STANDARD  
 ENGINE BROTHERS CO. CHICAGO - NEW YORK

Powell Rd. Force Main Sta. 13+50 to Sta. 27+00

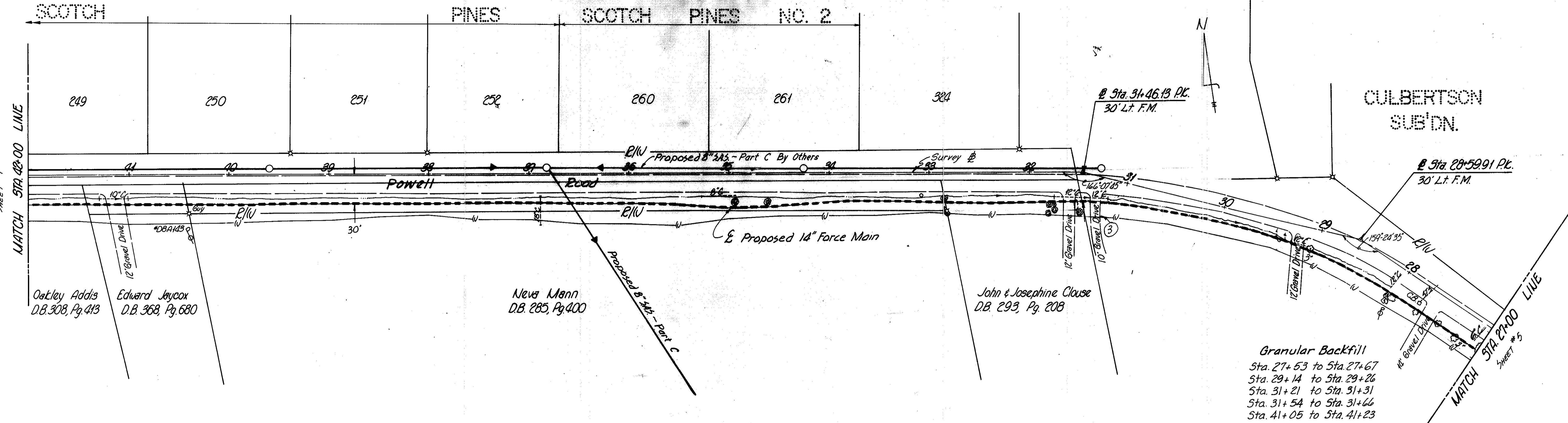
CONSULTING ENGINEERS  
BURGESS & NIPLE, LIMITED  
DELAWARE COUNTY, OHIO  
ALUM CREEK INTERCEPTOR  
SANITARY SEWER  
POWELL RD. FORCE MAIN STA. 27+00 TO STA. 42+00  
DRAWN BY: KUC  
CHECKED BY: F.C.S.  
DATE: NOVEMBER, 1974  
SHEET 6



~ Bench Mark ~  
Mine Spike in Power Pole  
\*DBA82 Along Powell  
Road and West of Bale  
Kempton Road.  
Elev. 885.38

PLAN  
SURVEYED BY: [ ]  
NOTED BY: [ ]  
DATE: [ ]  
NO. OF WAY CHECKED: [ ]  
DATE: [ ]

PROFILE  
SURVEYED BY: [ ]  
NOTED BY: [ ]  
DATE: [ ]  
NO. OF WAY CHECKED: [ ]  
DATE: [ ]



Granular Backfill  
Sta. 27+53 to Sta. 27+67  
Sta. 29+14 to Sta. 29+26  
Sta. 31+21 to Sta. 31+31  
Sta. 31+54 to Sta. 31+66  
Sta. 41+05 to Sta. 41+23

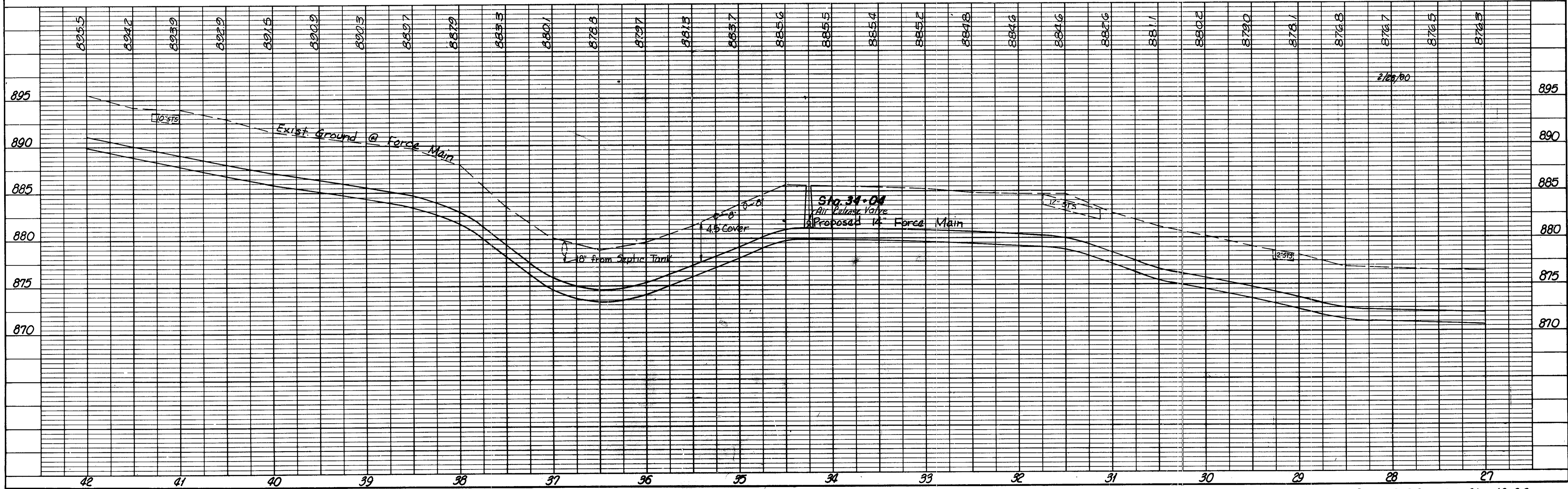


PLATE 1 PLAN-PROFILE B.P.R. STANDARD  
KUBARK ENGINEERING CO., CHICAGO - NEW YORK

Powell Rd. Force Main Sta. 27+00 to Sta. 42+00



CONSULTING ENGINEERS **BURGESS & NIPLE, LIMITED** COLUMBUS, OHIO

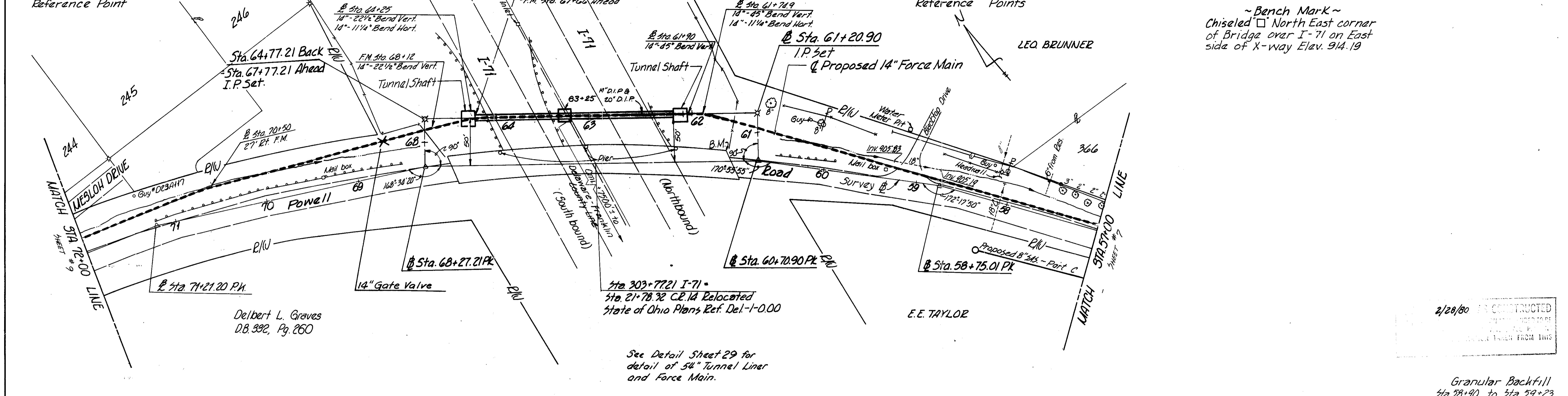
DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR**  
**SANITARY SEWER**  
**POWELL RD. FORCE MAIN STA. 57+00 TO STA. 72+00**

SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY KDC DATE NOVEMBER, 1974 CHECKED BY E.D.S. SHEET 8 OF 29

IP for Lot # 366  
 Leyland Sub.  
 Powell Rd.  
 Sta. 58+75.01

Sta. 68+27.21 No Scale  
 Sta. 60+70.90 No Scale  
 Sta. 58+75.01 No Scale

PLAN  
 SURVEYED BY  
 PLOTTED BY  
 NOTE BOOK NO. 74-25  
 BY DATE



PROFILE  
 SURVEYED BY  
 PLOTTED BY  
 NOTE BOOK NO. 74-25  
 BY DATE

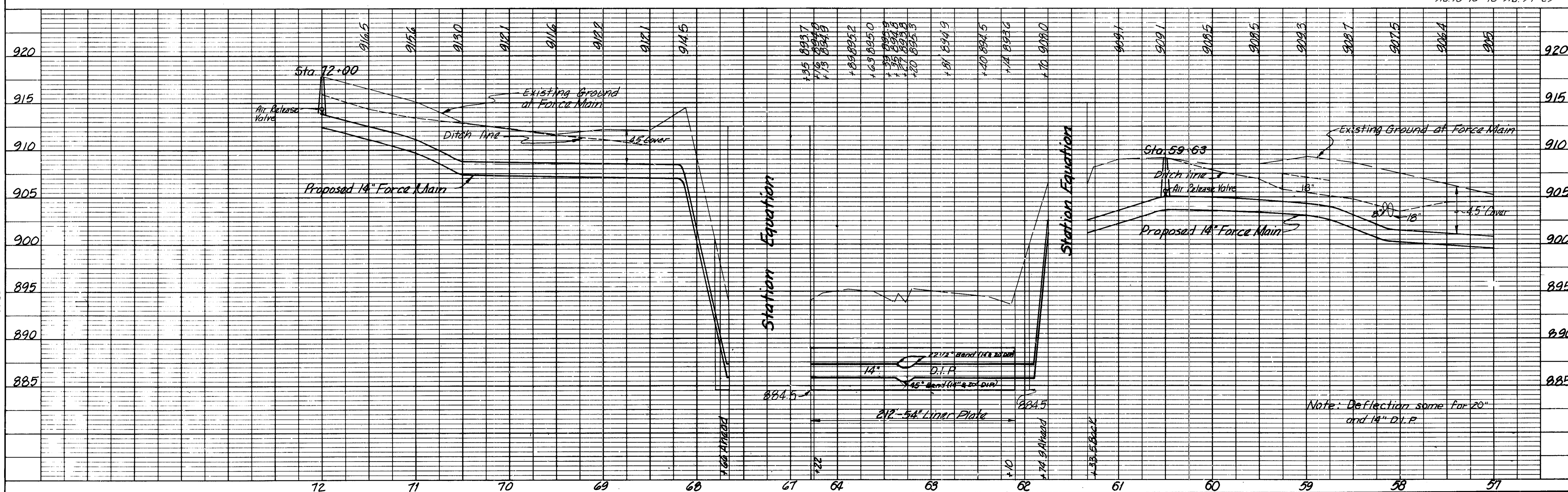


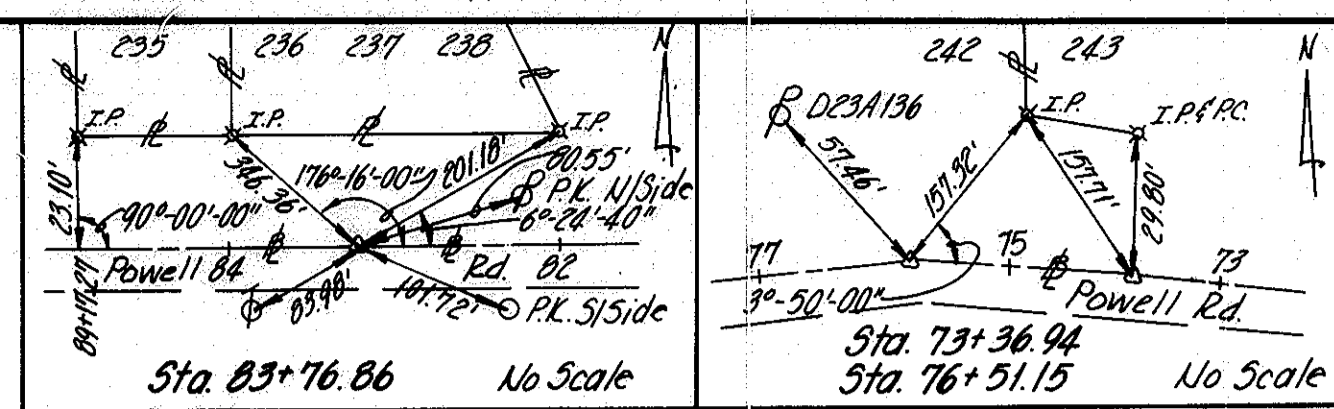
PLATE 1 PLAN - PROFILE B P R STANDARD  
 EUGENE DETZNER CO. CHICAGO - NEW YORK

Powell Rd. Force Main Sta. 57+00 to Sta. 72+00



~BENCH MARK~  
R.R. Spike in Transformer ♂  
at Sta. 82+75 ±, 10' Rt.  
Elev. = 935.51

~BENCH MARK~  
Chisel "a" N.E. Corner of  
Headwall at Sta. 78+00 ±,  
5' Rt. Elev. = 914.41



Reference Points

CONSULTING ENGINEERS  
BURGESS & NIPLE, LIMITED  
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO  
ALUM CREEK INTERCEPTOR  
SANITARY SEWER  
POWELL RD. FORCE MAIN STA. 72+00 TO STA. 87+00

SCALE: 1" = 5' VERT.  
1" = 50' HOR.

DRAWN BY BLD  
CHECKED BY E.D.S.

DATE  
NOVEMBER, 1974

SHEET 9 OF 29

PLAN	DATE
BY	
REVISION	
NO. 1	
NO. 2	
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PROFILE	DATE
BY	
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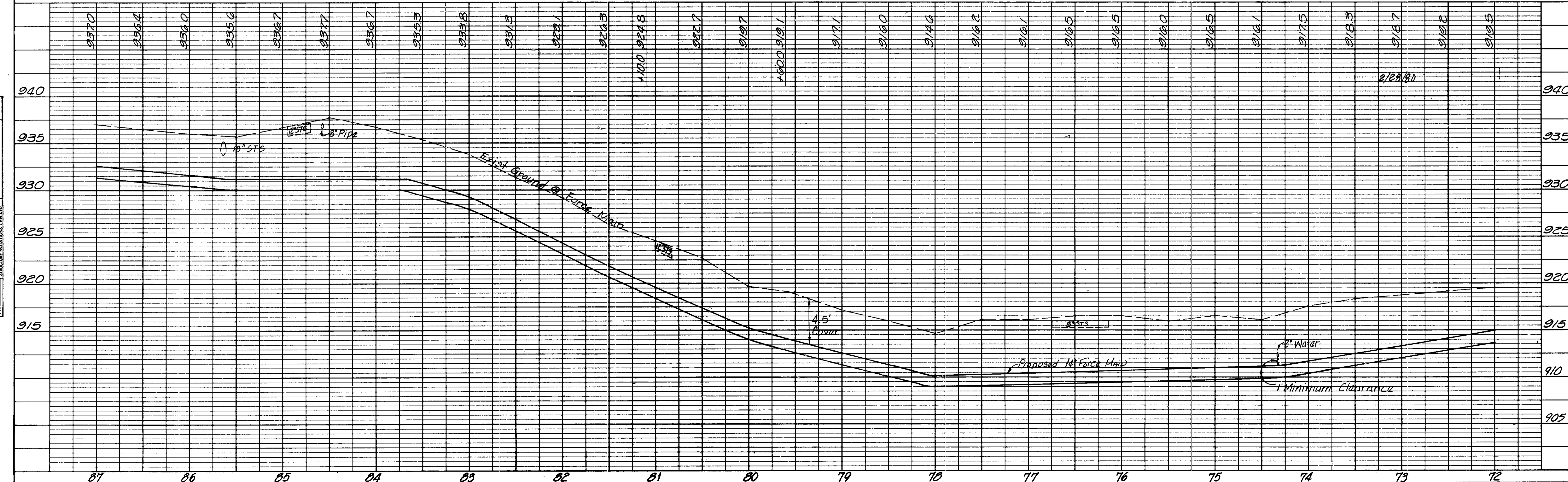
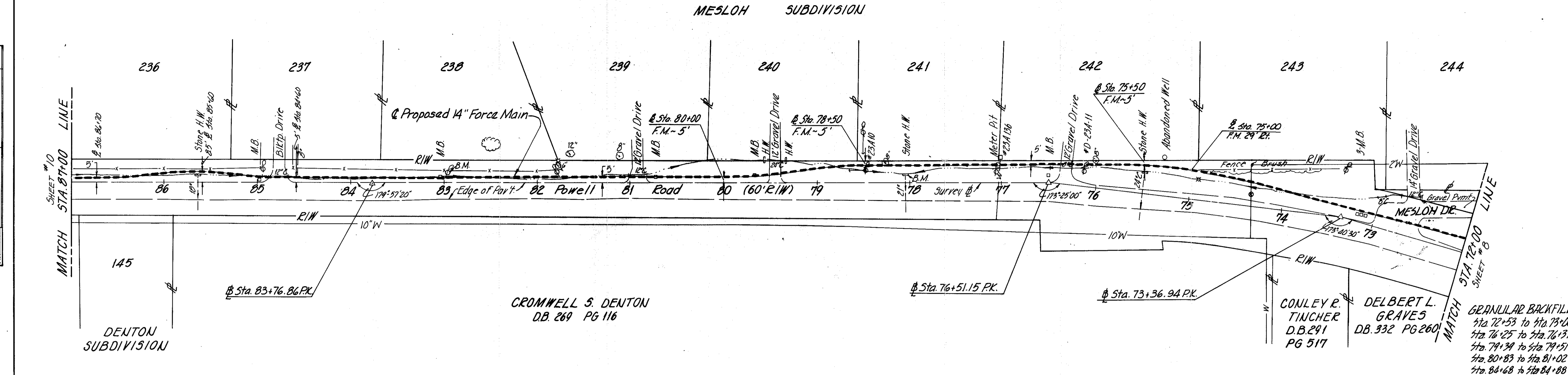
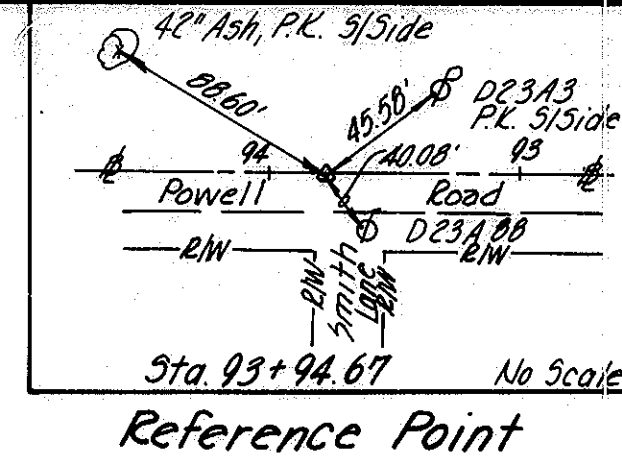


PLATE 1 PLAN - PROFILE B P R STANDARD  
ENGINE DETZEN CO. CHICAGO - NEW YORK

POWELL RD. FORCE MAIN STA. 72+00 TO STA. 87+00

~ BENCH MARK ~  
 R.P. Spike in North Root of  
 a 36" Black Oak, Sta. 98+00±  
 25' Lt. Elev. = 947.66



CONSULTING ENGINEERS  
**BURGESS & NIPLE, LIMITED**  
 COLUMBUS, OHIO

DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR  
 SANITARY SEWER**

POWELL RD. FORCE MAIN STA. 87+00 TO STA. 102+00

SCALE: 1" = 5' VERT.  
 1" = 50' HOR.

DRAWN BY BLD  
 CHECKED BY E.D.S.

DATE  
 NOVEMBER, 1974

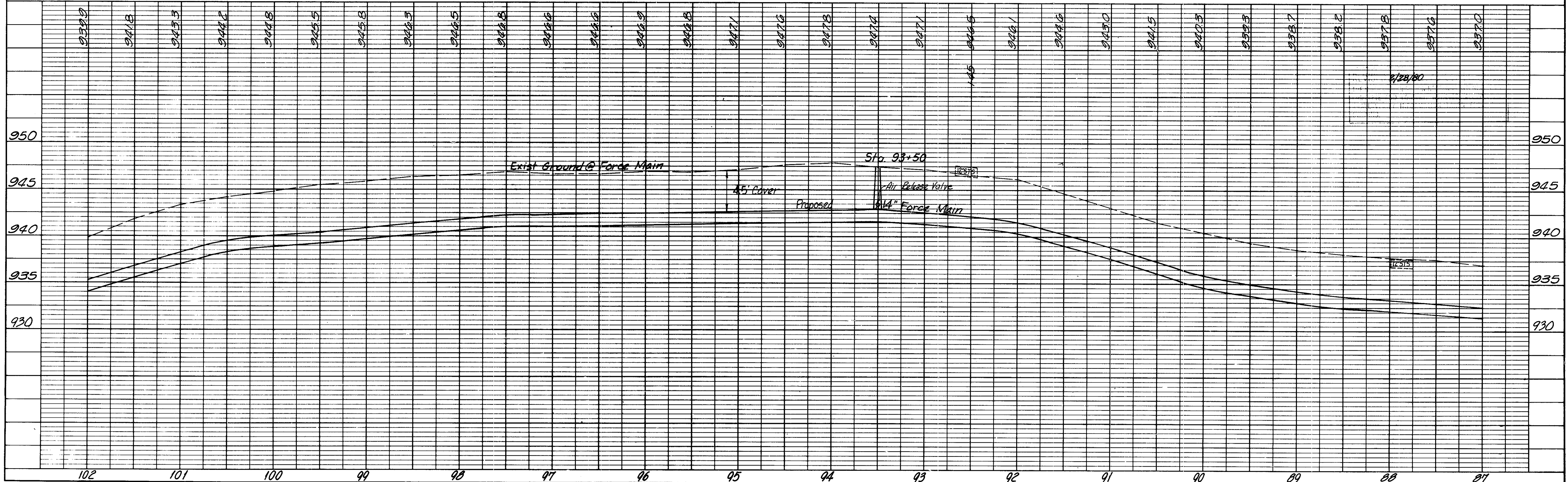
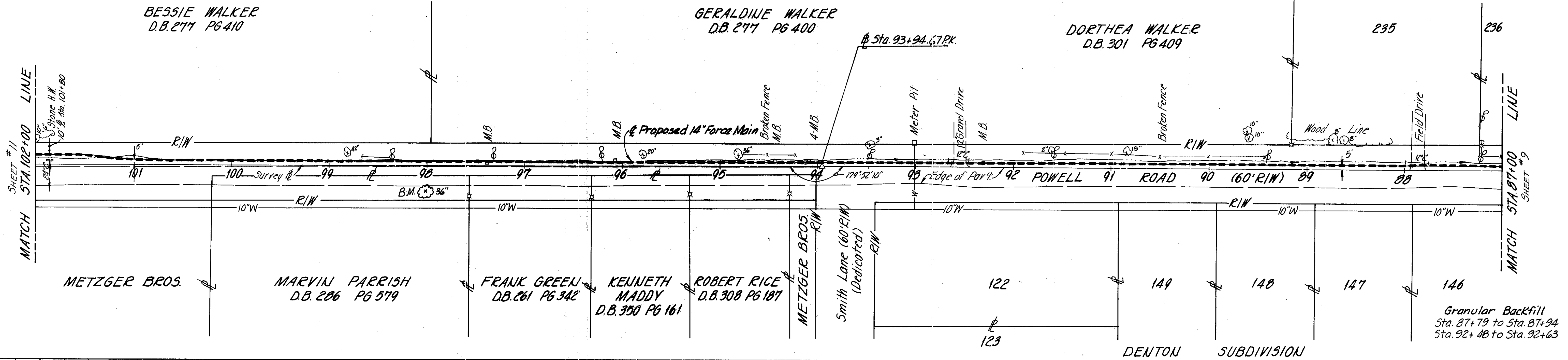
SHEET 10 OF 29

PLAN

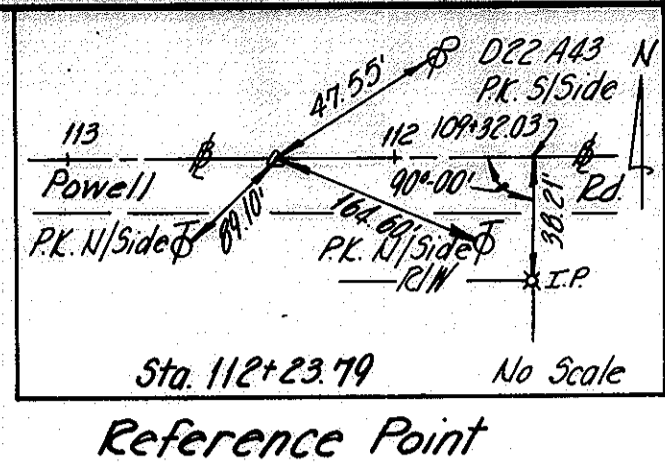
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BY	
REVISIONS	
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NOTE BOOK	
NO. 14-41	

PROFILE

DATE	
BY	
REVISIONS	
NO. 14-41	BY
NOTE BOOK	
NO. 14-41	



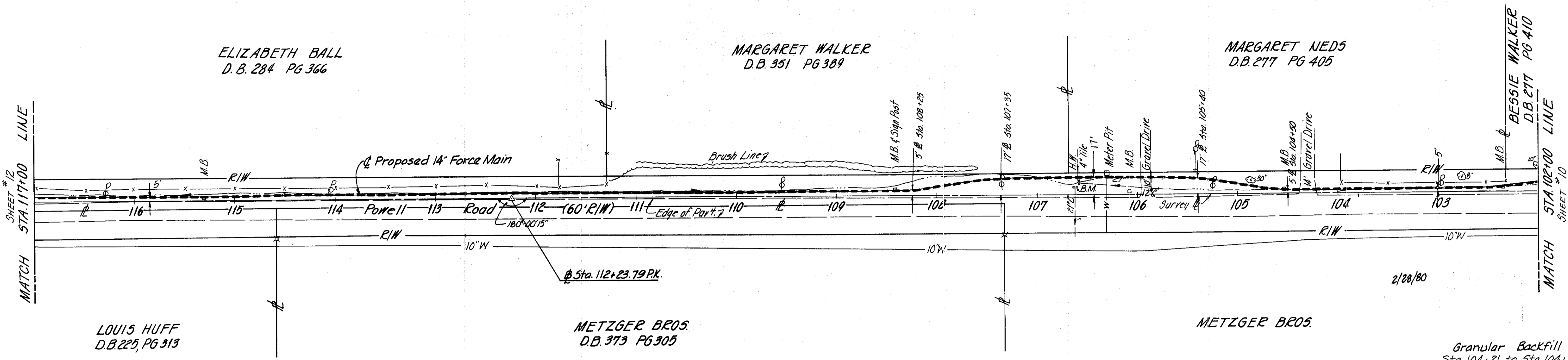
~Bench Mark~  
Chiseled "□" Northeast Corner  
Headwall at Sta. 117+00±  
Elev. 945.66



~BENCH MARK~  
Chisel "□" N.E. Corner of  
Headwall at Sta. 106+75±  
6' Et. Elev. 942.38

CONSULTING ENGINEERS		BURGESS & NIPLE, LIMITED		COLUMBUS, OHIO	
DELAWARE COUNTY, OHIO					
ALUM CREEK INTERCEPTOR					
SANITARY SEWER					
POWELL RD. FORCE MAIN STA. 102+00 TO STA. 117+00					
REVISIONS	SCALE: 1" = 5' VERT.	DRAWN BY BLD	DATE	SHEET 11 OF 29	
	SCALE: 1" = 50' HOR.	CHECKED BY E.D.S.	NOVEMBER, 1974		

PLAN	DATE
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2/28/80

Granular Backfill  
Sta. 104+21 to Sta. 104+39  
Sta. 105+86 to Sta. 105+96

PROFILE	DATE
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REVISIONS	
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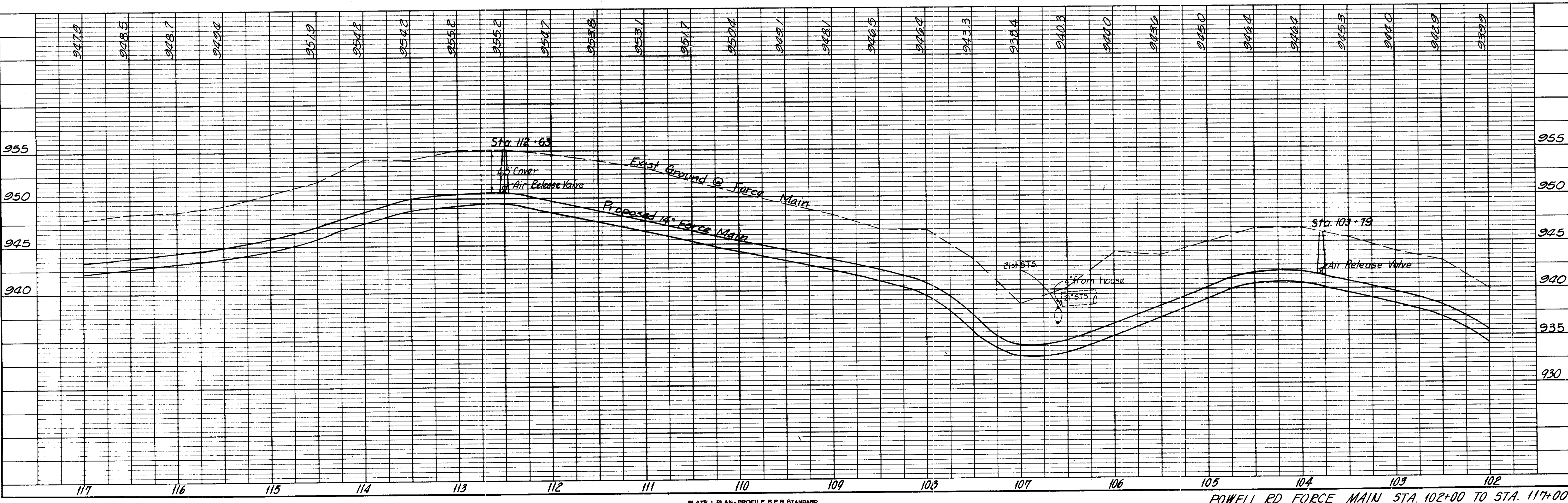
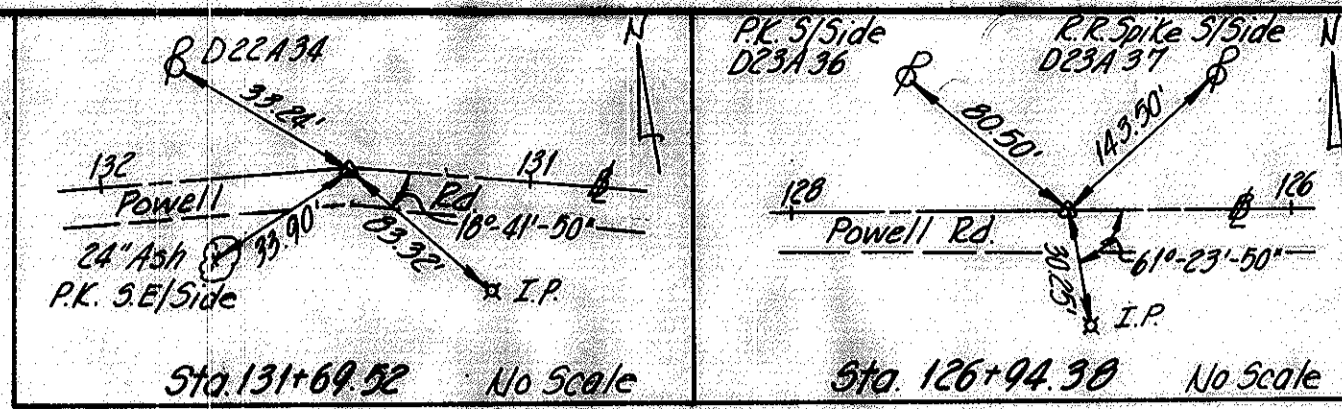


PLATE 1 PLAN - PROFILE B P R STANDARD  
ENGINE DETROIT CO., CHICAGO - NEW YORK

POWELL RD. FORCE MAIN STA. 102+00 TO STA. 117+00

~ Bench Mark ~  
Chiseled "d" North End  
on Bell of 21" Culvert  
at Sta. 128+00.  
Elev. = 954.25

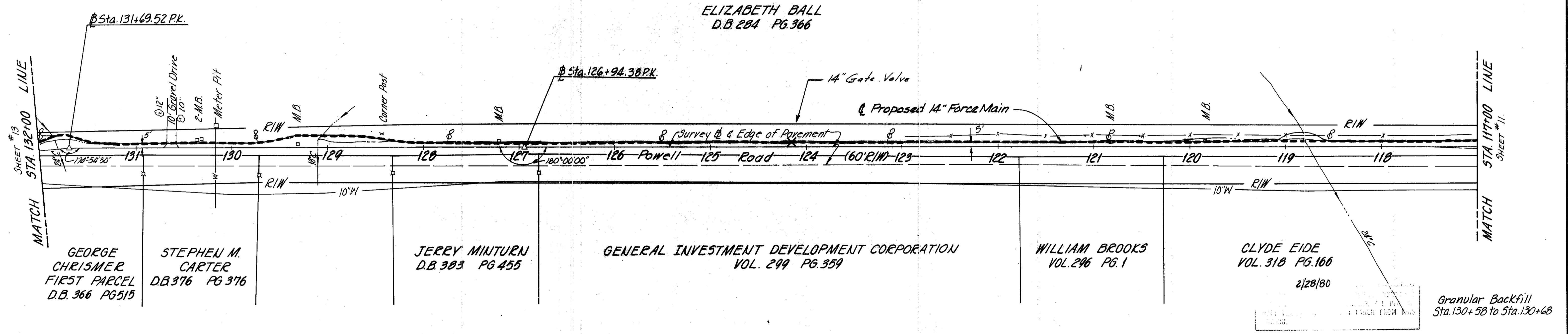
~ Bench Mark ~  
Northeast Corner of Retaining  
Wall at Garage of Res. 1870  
Elev. = 959.76



Reference Points

CONSULTING ENGINEERS  
BURRESS & WHIPPLE, LIMITED  
DELAWARE COUNTY, OHIO  
ALUM CREEK INTERCEPTOR  
SANITARY SEWER  
POWELL RD. FORCE MAIN STA. 117+00 TO STA. 132+00  
SCALE: 1" = 5' VERT. 1" = 50' HOR.  
DRAWN BY BLD  
CHECKED BY E.D.S.  
DATE: NOVEMBER 1978  
SHEET 12 OF 29

PLAN	DATE
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REVISION	
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PROFILE	DATE
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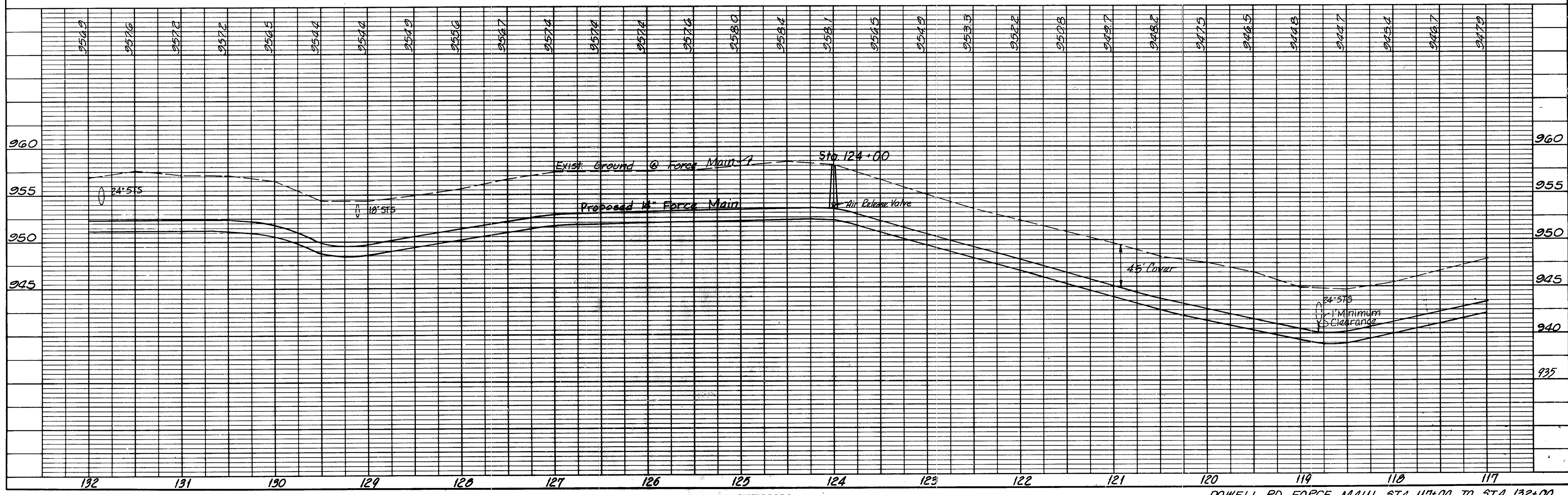


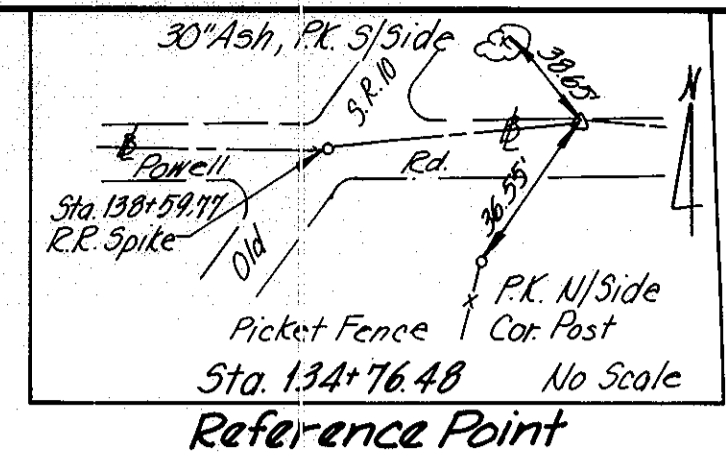
PLATE I PLAN-PROFILE B.P.R. STANDARD  
ENGINE DIVISION CO. CHICAGO - NEW YORK

POWELL RD. FORCE MAIN STA. 117+00 TO STA. 132+00

~ Bench Mark ~  
Chiseled "□" North and culvert  
pipe under Powell Rd. First  
culvert North of Old State Rd 10.  
Elev. 967.05

~ BENCH MARK ~  
R.R. Spike & Intersection of  
Old State Rd 10 and Powell  
Rd. Elev. = 971.01

~ Bench Mark ~  
Chiseled "□" West and on  
Bell 12" Culvert @ Sta 132+10+  
20' Lt. Elev. 958.53



CONSULTING ENGINEERS		BURGESS & NIPLE, LIMITED		COLUMBUS, OHIO	
DELAWARE COUNTY, OHIO ALUM CREEK INTERCEPTOR SANITARY SEWER					
POWELL RD. FORCE MAIN STA. 132+00 TO STA. 147+00					
REVISIONS	SCALE 1" = 5' VERT. 1" = 50' HOR.	DRAWN BY BLD CHECKED BY E.D.S.	DATE NOVEMBER, 1974	SHEET 13	OF 29

PLAN	DATE
BY	
REVISIONS	
NO. 74-45	
DATE	

PROFILE	DATE
BY	
REVISIONS	
NO. 74-45	
DATE	

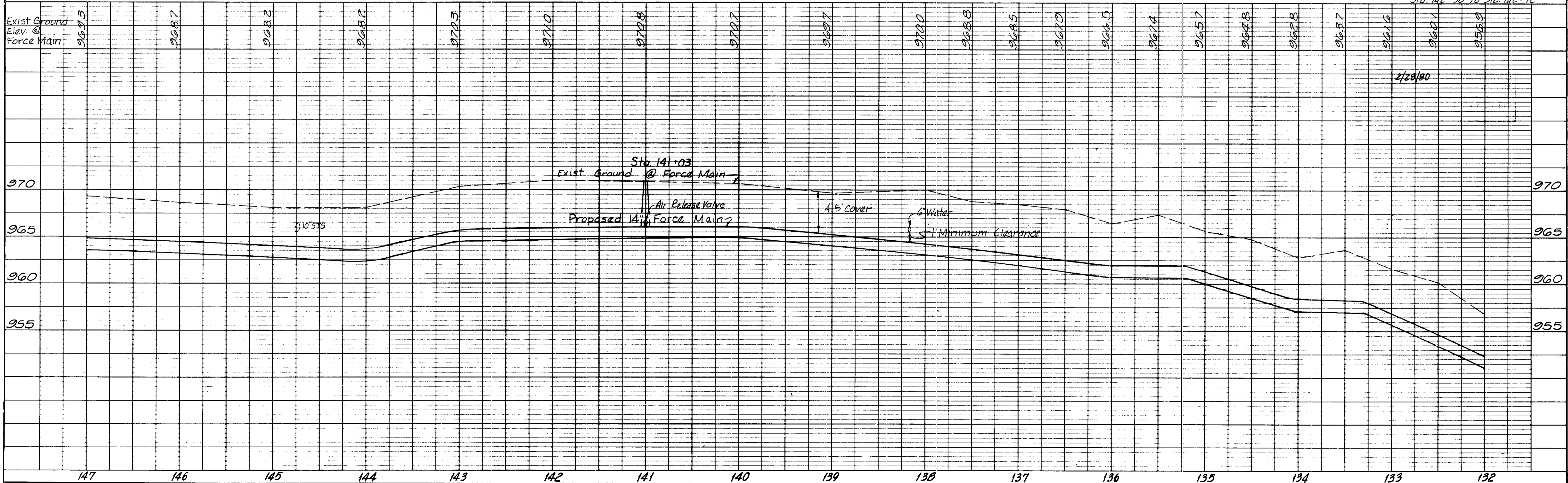
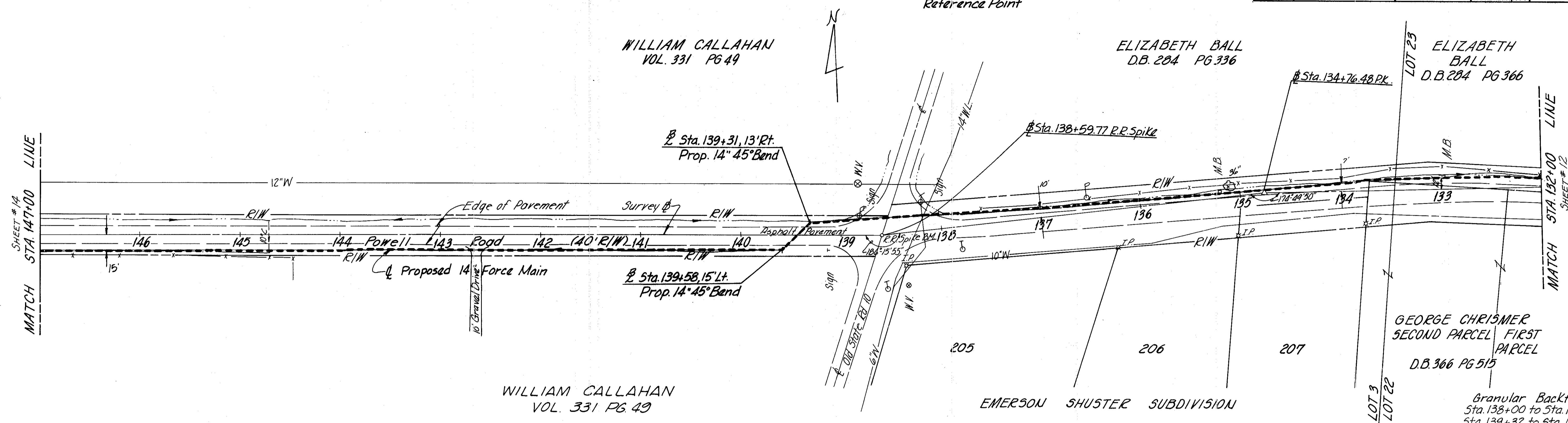
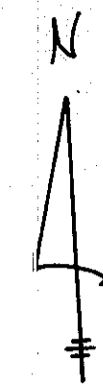


PLATE 1 PLAN-PROFILE B P R STANDARD  
EUGENE DIEZELER CO. CHICAGO - NEW YORK

POWELL RD. FORCE MAIN STA. 132+00 TO STA. 147+00

~ BENCH MARK ~  
 West End of 12" CMP at Woodline  
 and Drive to South. Elev. = 967.00

WILLIAM CALLAHAN  
 VOL. 331 PG 49



BURGESS & NIPLÉ, LIMITED  
 CONSULTING ENGINEERS COLUMBUS, OHIO

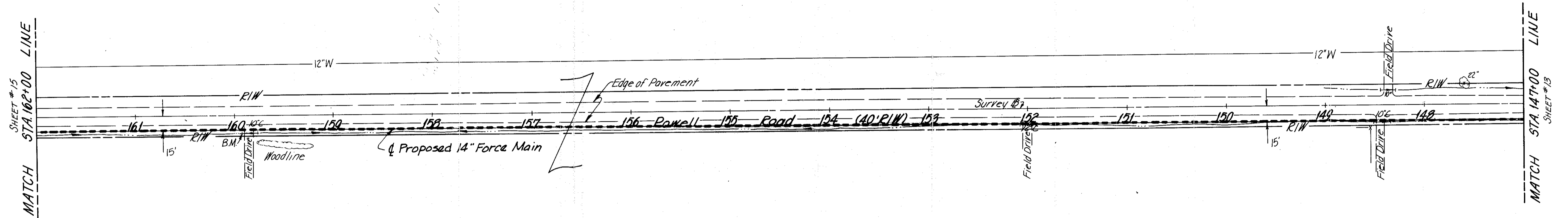
DELAWARE COUNTY, OHIO  
 ALUM CREEK INTERCEPTOR  
 SANITARY SEWER  
 POWELL RD. FORCE MAIN STA. 147+00 TO STA. 162+00

REVISIONS

SCALE: 1" = 5' VERT. 1" = 50' HOR.  
 DRAWN BY BLD  
 CHECKED BY E.D.S.  
 DATE NOVEMBER, 1974  
 SHEET 14 OF 29

PLAN

DATE	
BY	
REVISIONS	
NOTE BOOK	
NO. 74-41	
RT. OF WAY CHECKED	
NO. 74-45	

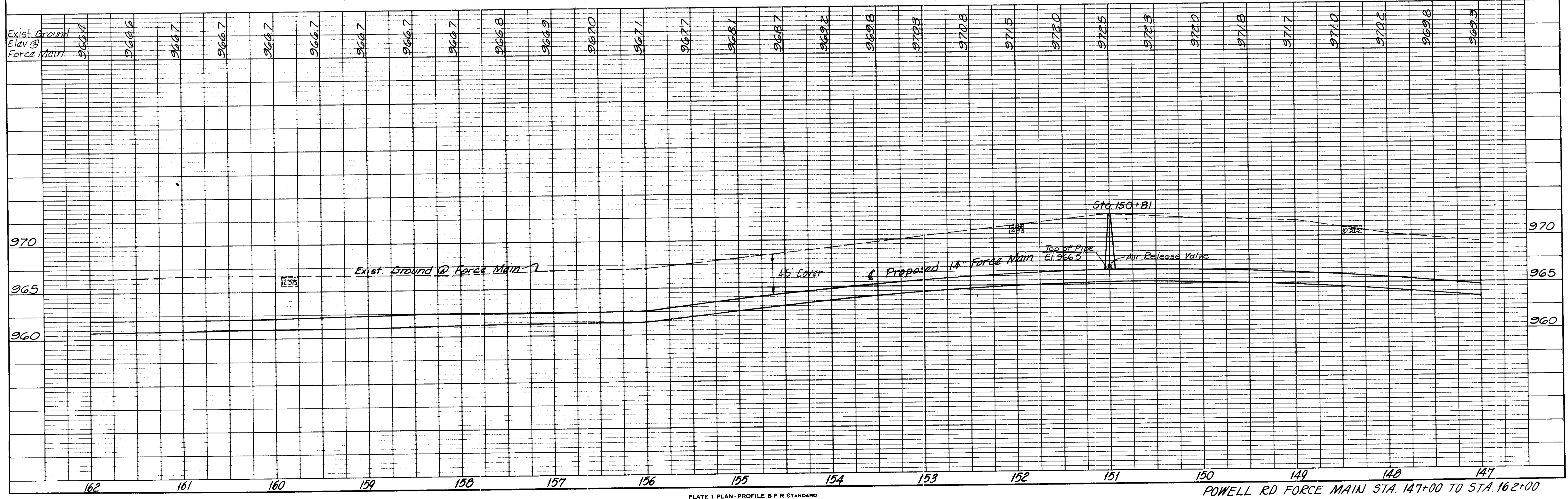


2/28/80

Granular Backfill  
 Sta. 159+80 to Sta. 159+90  
 Sta. 151+95 to Sta. 152+05  
 Sta. 148+40 to Sta. 148+49

PROFILE

DATE	
BY	
REVISIONS	
NOTE BOOK	
NO. 74-45	
STRUCTURE NOTATIONS CHECKED	



~ BENCH MARK ~  
R.R. Spike North Side  
of Power Pole # D21A95  
Elev = 973.15

~ BENCH MARK ~  
USCGS Shannahan at  
S.W. intersection of R.R. R/W  
and R/W Powell Rd.  
Elev = 972.65

~ BENCH MARK ~  
R.R. Spike in North West Root  
of a Lone 12" Black Jack Oak  
Tree. Sta. 163+43 Elev 967.83

CONSULTING ENGINEERS **BURGESS & NIPLE, LIMITED** COLUMBUS, OHIO

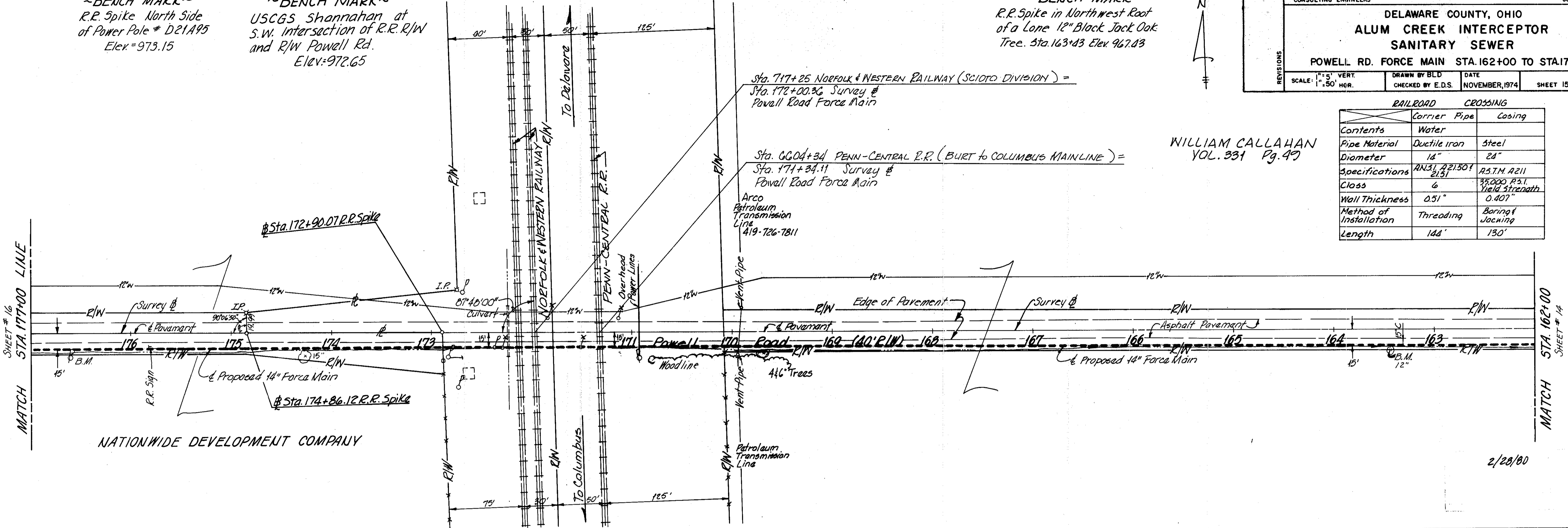
DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR  
SANITARY SEWER**

POWELL RD. FORCE MAIN STA. 162+00 TO STA. 177+00

SCALE: 1" = 50' HOR. DRAWN BY BLD DATE NOVEMBER, 1974 CHECKED BY E.D.S. SHEET 15 OF 29

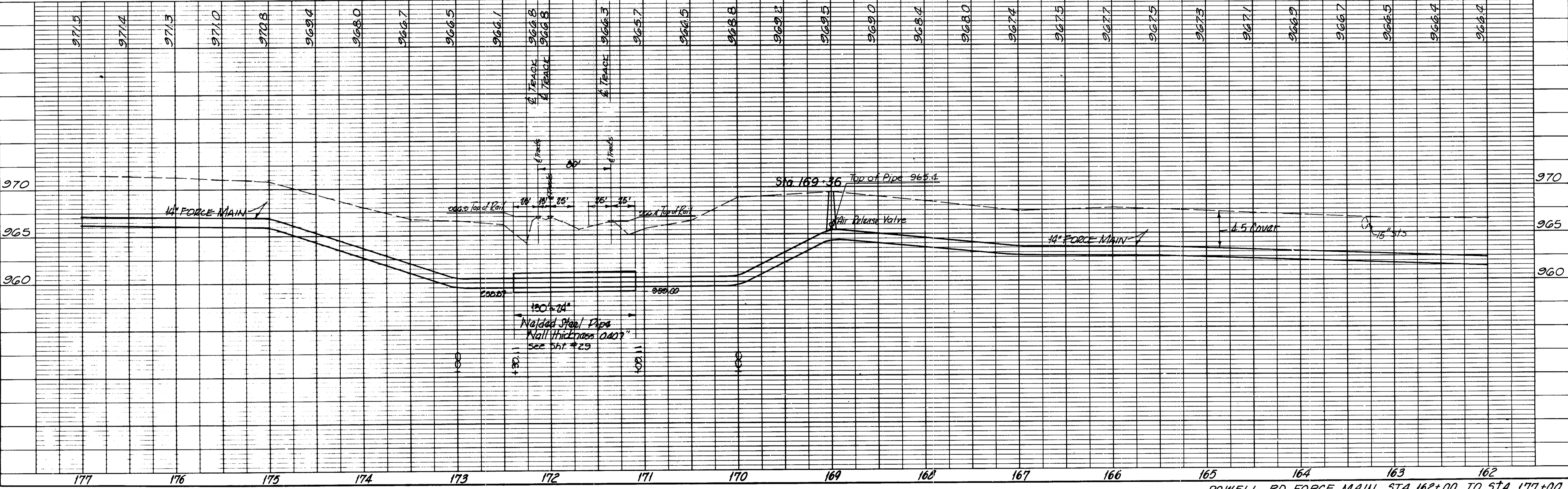
Contents	RAILROAD CROSSING	
	Carrier Pipe	Casing
Pipe Material	Ductile iron	Steel
Diameter	18"	24"
Specifications	ANSI A21.50 21.51	A.S.T.M. A211
Class	6	35,000 P.S.I. Yield Strength
Wall Thickness	0.51"	0.407"
Method of Installation	Threading	Boring & Jacking
Length	144'	130'

WILLIAM CALLAHAN  
VOL. 331 Pg. 49



PLAN  
DATE  
BY  
REVISIONS  
NO. 1  
DATE  
BY  
DESCRIPTION

PROFILE  
DATE  
BY  
REVISIONS  
NO. 1  
DATE  
BY  
DESCRIPTION



2/25/80

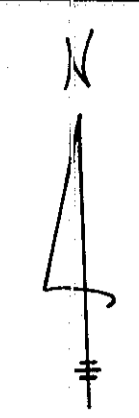




DATE	
BY	
REVISIONS	
NO. 72-45	ALUMINUM CHECKED
PLAN	NOTE BOOK
74-1	

DATE	
BY	
REVISIONS	
NO. 72-45	ALUMINUM CHECKED
PROFILE	NOTE BOOK

Bench Mark  
 "a" on northwest corner of  
 stone headwall 12.5 feet left  
 of Sta. 196+23.  
 Elev. 953.24



1128-77 Connection of  
 Contracts Moved 27 28ft

REVISIONS

CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

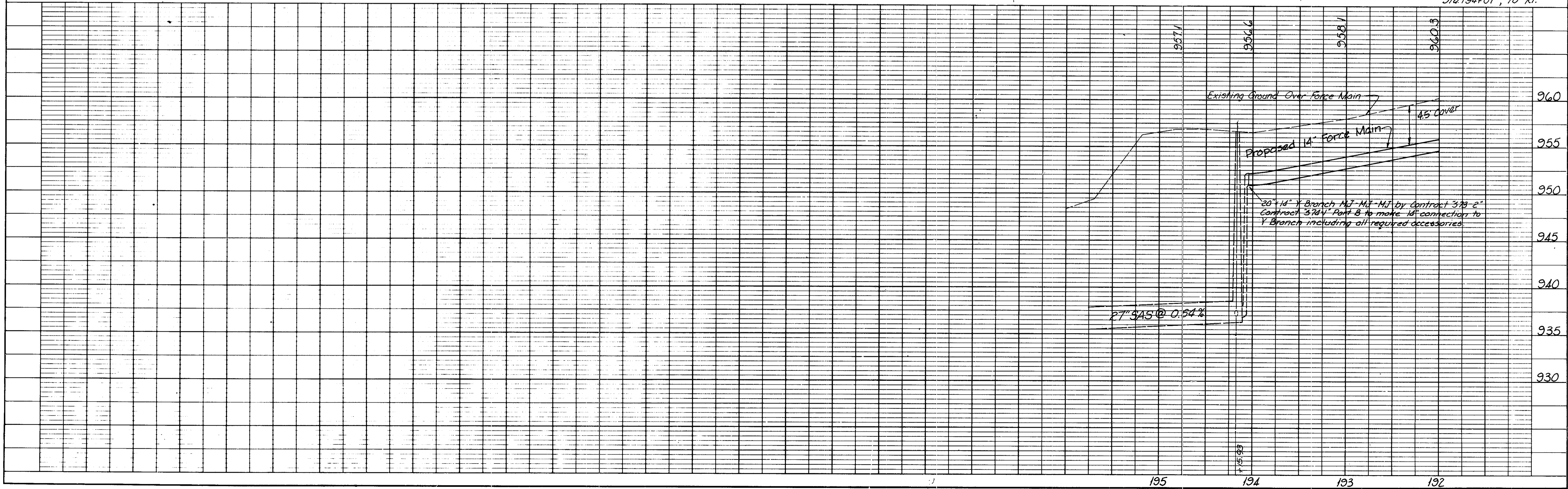
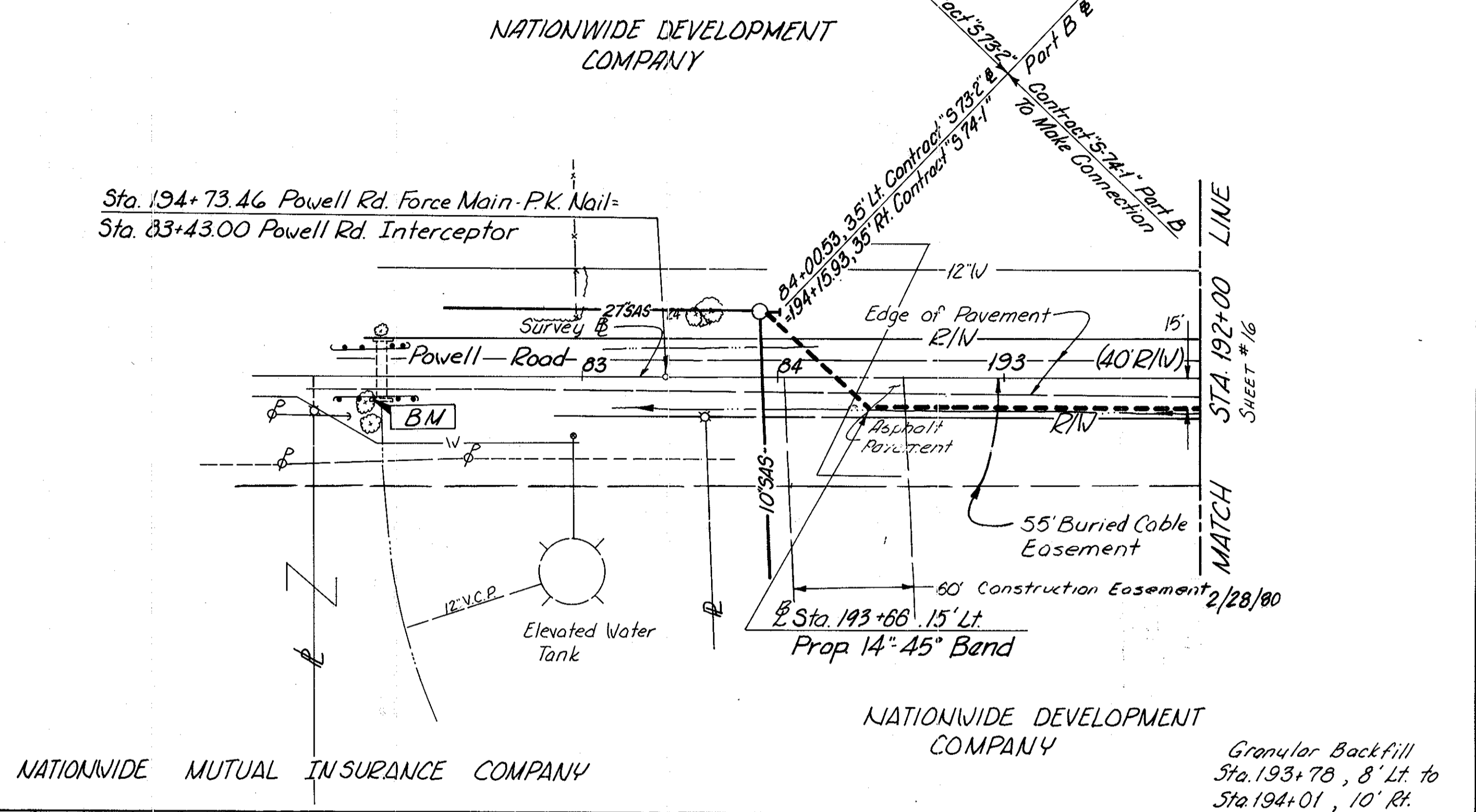
DELAWARE COUNTY, OHIO  
 ALUM CREEK INTERCEPTOR  
 SANITARY SEWER  
 POWELL RD. FORCE MAIN STA. 192+00 TO STA. 194+15.93

SCALE: 1" = 5' VERT.  
 1" = 50' HOR.

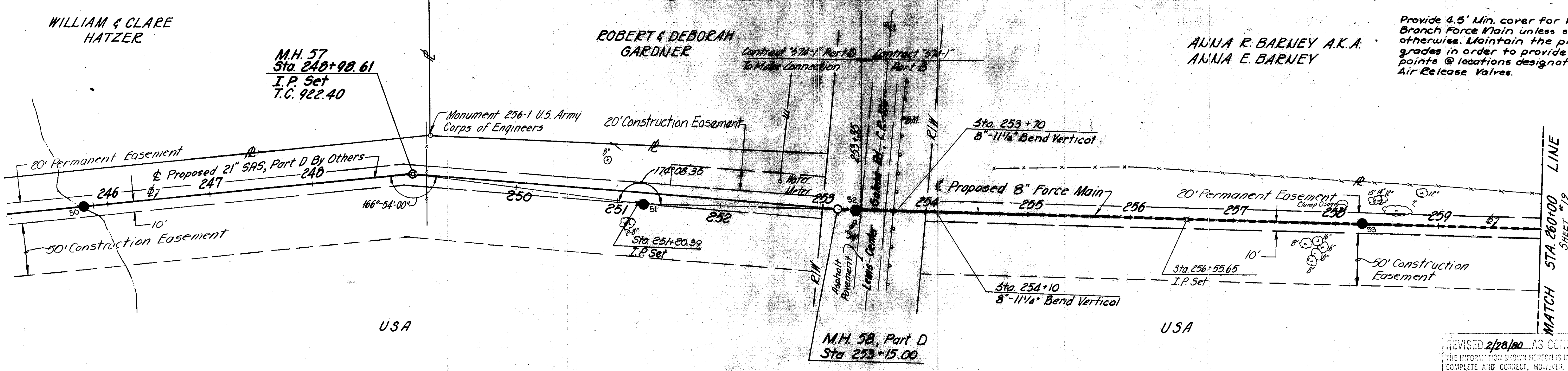
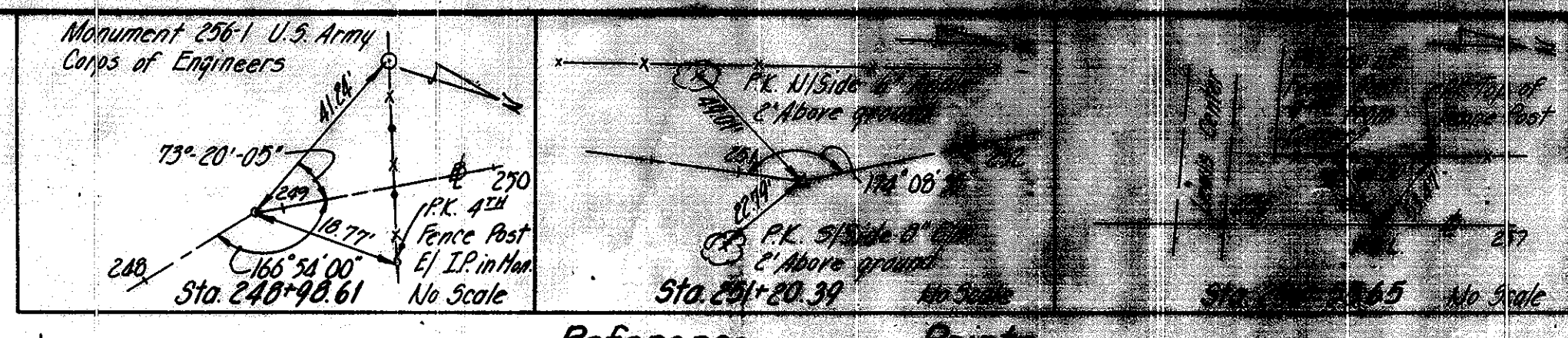
DRAWN BY PEM  
 CHECKED BY E.D.S.

DATE  
 NOVEMBER, 1974

SHEET 17 OF 29



DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR**  
**SANITARY SEWER**  
 WEST BRANCH FORCE MAIN STA. 253+35 TO STA. 260+00  
 SHEET 18 OF 20



Provide 4.5' Min. cover for West Branch Force Main unless shown otherwise. Maintain the profile grades in order to provide high points @ locations designated for Air Release Valves.

REVISED 2/28/80 AS CORRECTED. THE INFORMATION SHOWN HEREON IS INTENDED TO BE COMPLETE AND CORRECT, HOWEVER, THE USER SHALL VERIFY INFORMATION FROM THIS DRAWING.

Granular Backfill  
 Sta. 253+35 to Sta. 253+65

**PLAN**  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO. 74-28  
 SHEET 18 OF 20

**PROFILE**  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO. 74-28  
 SHEET 18 OF 20

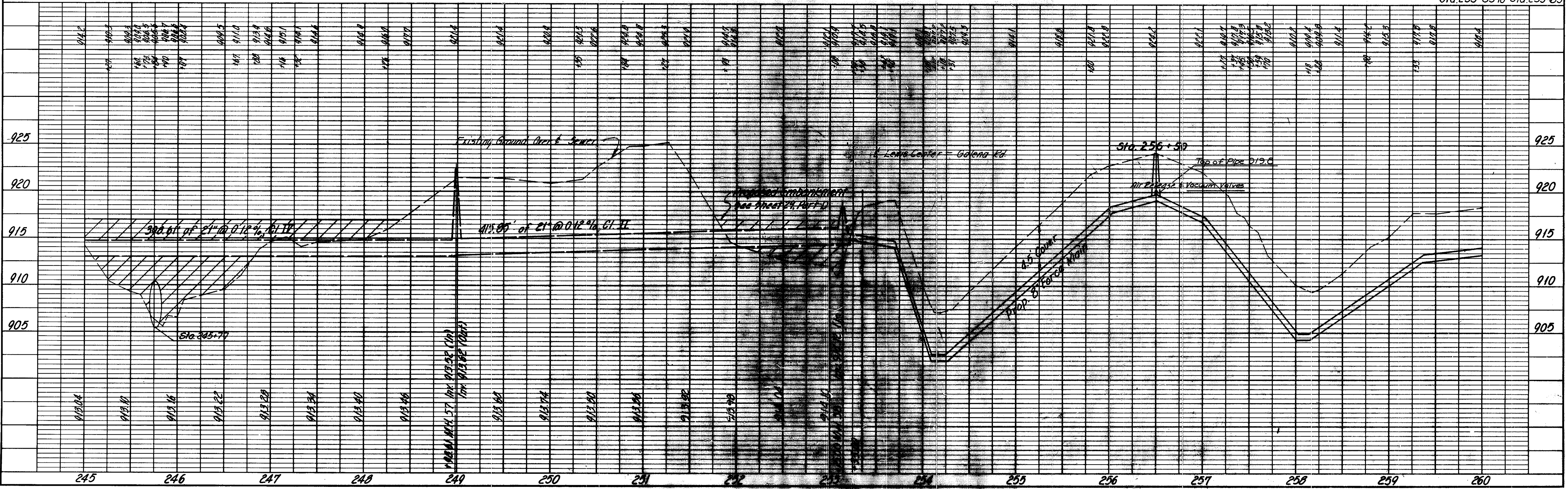
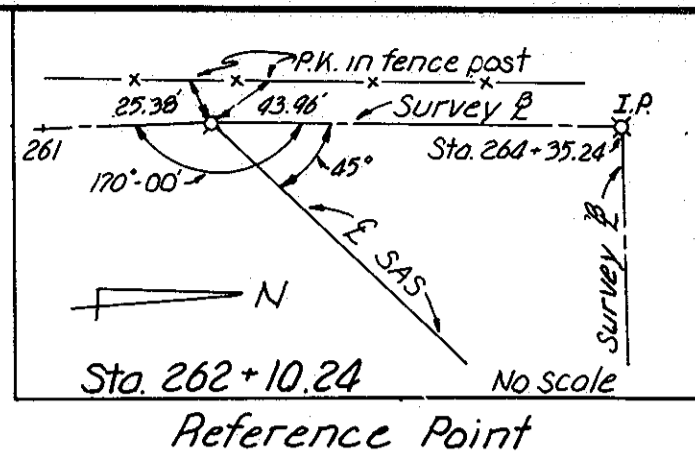


PLATE 1 PLAN, PROFILE & P.R. SEWER  
 West Branch Alum Creek Interceptor Force Main Sta. 253+35 to Sta. 260+00

PLAN  
 SURVEYED BY  
 NOTE BOOK NO. 11-2114  
 GRAVING CHECKED BY  
 DATE 11/26/60

PROFILE  
 SURVEYED BY  
 NOTE BOOK NO. 11-2114  
 GRAVING CHECKED BY  
 DATE 11/26/60



ANNA R. BARNEY A.K.A.  
 ANNA E. BARNEY

~ Bench Mark ~  
 R.R. Spike set South side  
 18' Hickory in fence line,  
 Sta. 267+10, 7' Lt.  
 Elev. 922.64.

~ Bench Mark ~  
 Mine Spike in 16" Maple,  
 Sta. 266+30, 6.5' Rt.  
 Elev. = 913.17

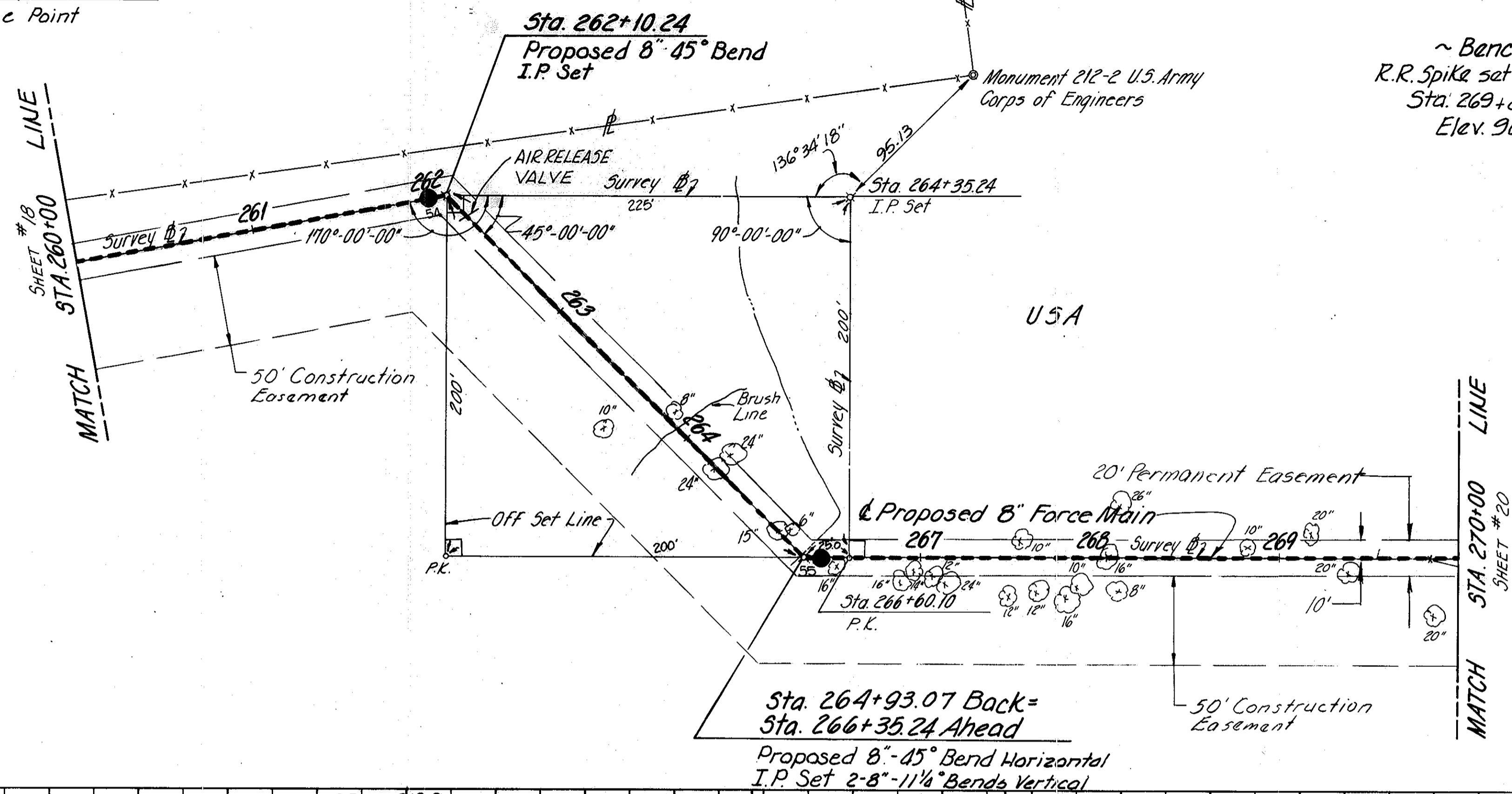
~ Bench Mark ~  
 R.R. Spike set West side 24' Maple,  
 Sta. 269+80, 15' Rt.  
 Elev. 903.10.

CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

DELAWARE COUNTY, OHIO  
 ALUM CREEK INTERCEPTOR  
 SANITARY SEWER  
 WEST BRANCH FORCE MAIN STA. 260+00 TO STA. 270+00

SCALE: 1"=5' VERT.  
 1"=50' HOR.

DRAWN BY BLD DATE  
 CHECKED BY E.D.S. SEPTEMBER, 1974 SHEET 19 OF 29



Sta. 264+93.07 Back =  
 Sta. 266+35.24 Ahead  
 Proposed 8" - 45° Bend Horizontal  
 I.P. Set 2'-8" - 1 1/4" Bends Vertical

2/28/60

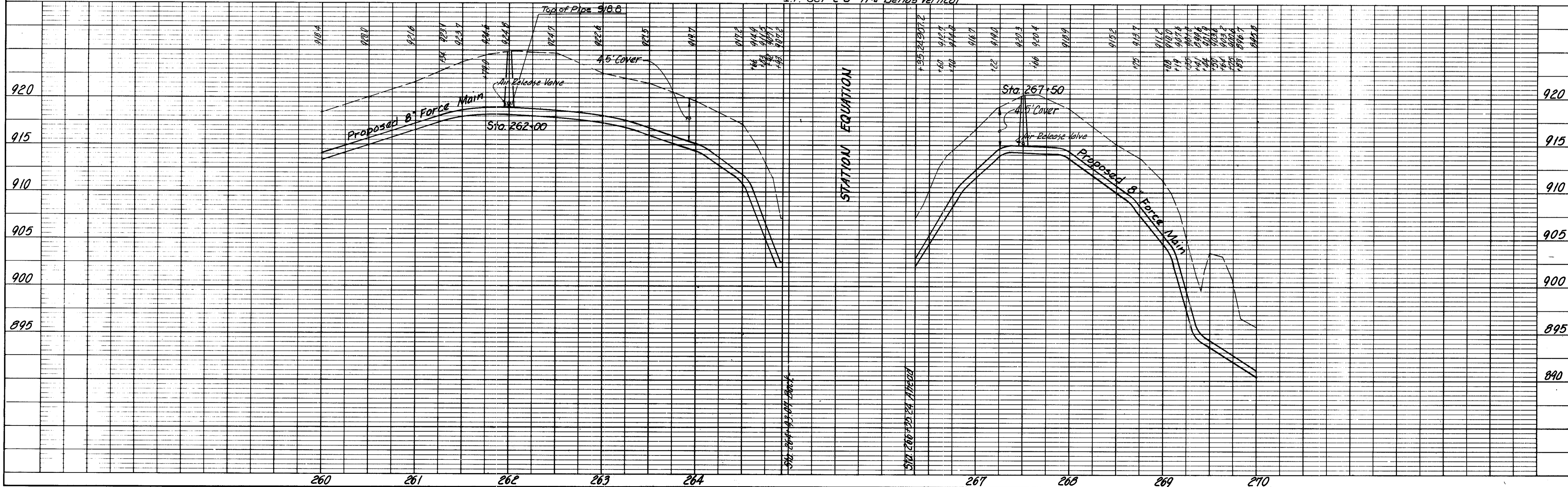


PLATE 1 PLAN - PROFILE B P R STANDARD  
 ENGINE DETECTOR CO. CHICAGO - NEW YORK

West Branch Alum Creek Interceptor Force Main Sta. 260+00 to Sta. 270+00

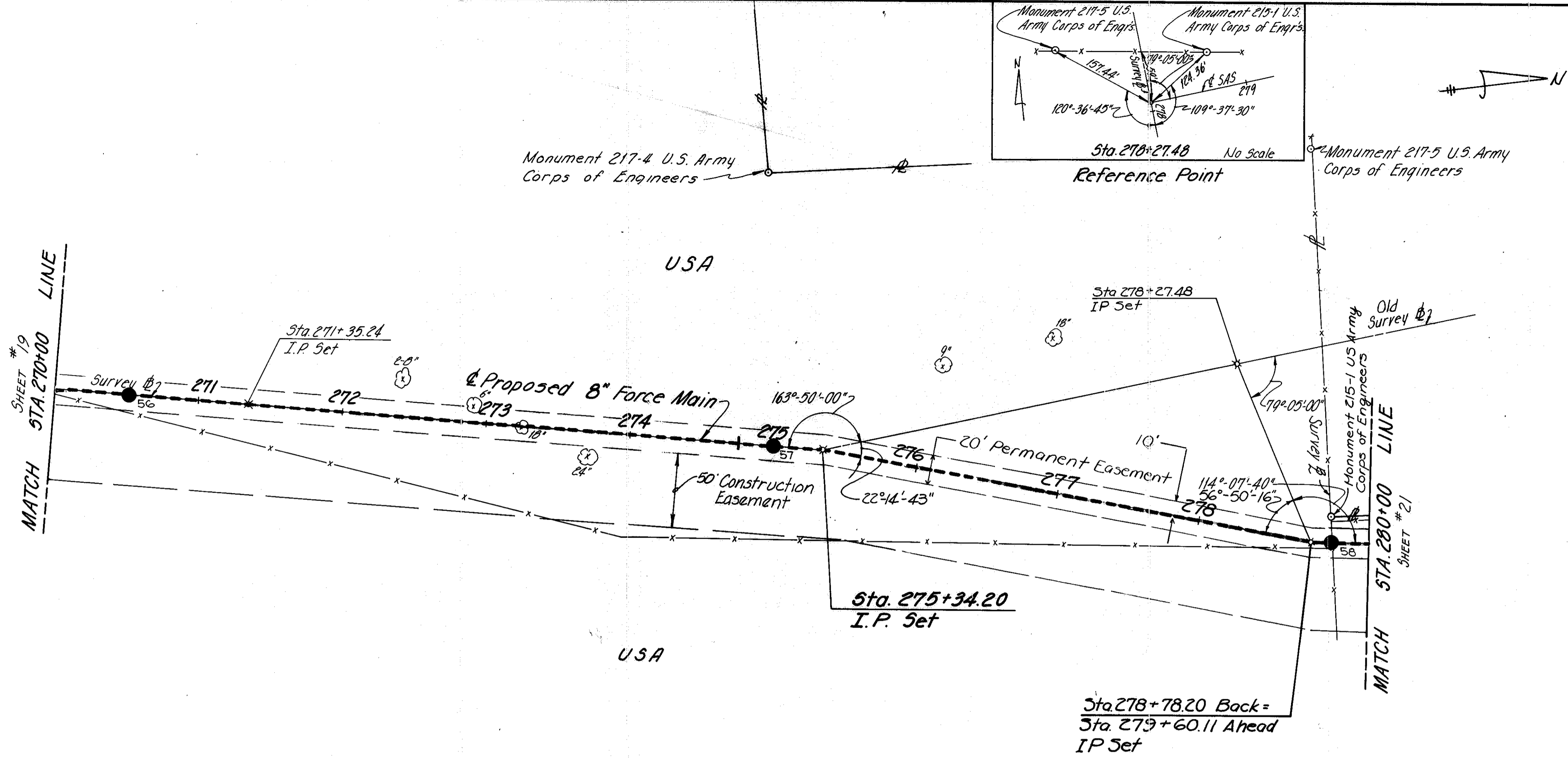
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 SURVEYED BY DATE  
 NOTE BOOK NO. 22214  
 PLANT CHECKED BY DATE  
 NO. 22214

PROFILE  
 SURVEYED BY DATE  
 NOTE BOOK NO. 22214  
 GRADE CHECKED BY DATE  
 STRUCTURE INFORMATION CHECKED BY DATE

CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

DELAWARE COUNTY, OHIO  
 ALUM CREEK INTERCEPTOR  
 SANITARY SEWER  
 WEST BRANCH FORCE MAIN STA. 270+00 TO STA. 280+00

SCALE: 1" = 5' VERT. 1" = 50' HOR.  
 DRAWN BY BLD  
 CHECKED BY E.D.S. DATE: SEPTEMBER, 1974 SHEET 20 OF 29



REVISED 2/28/80 AS CONSTRUCTED  
 THE INFORMATION SHOWN HEREON IS INTENDED TO BE  
 COMPLETE AND CORRECT. HOWEVER, THE  
 USER SHALL VERIFY INFORMATION FROM THIS PLAN.

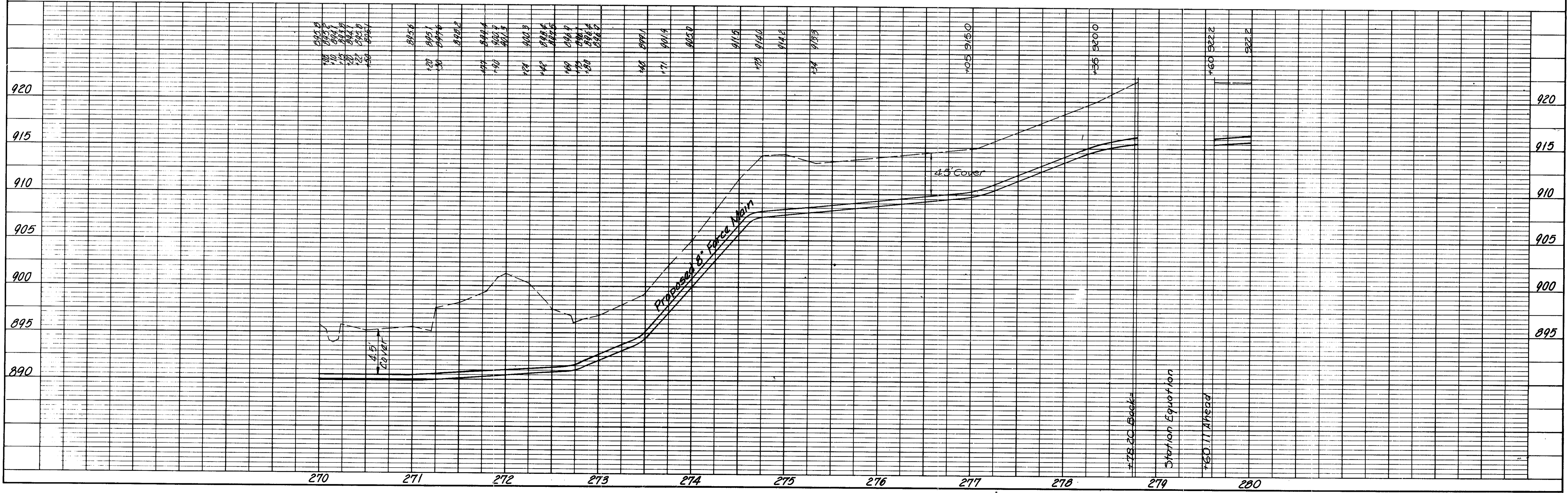


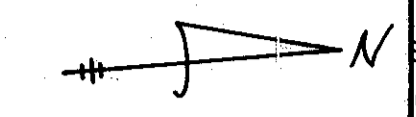
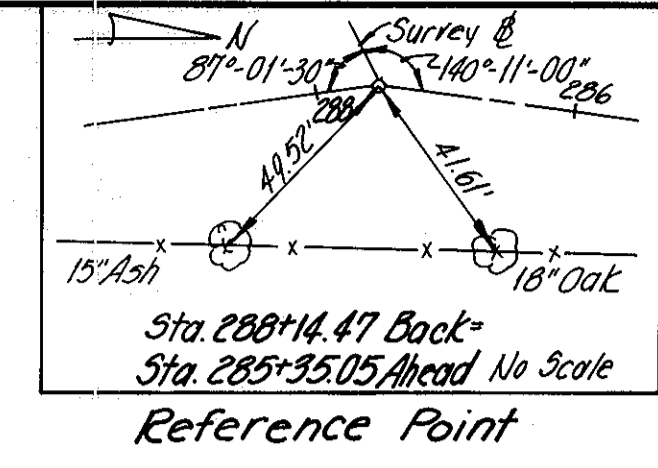
PLATE 1 PLAN-PROFILE B P R STANDARD  
 EUGENE DETZDORF CO. CHICAGO, NEW YORK

West Branch Alum Creek Interceptor Force Main Sta. 270+00 to Sta. 280+00

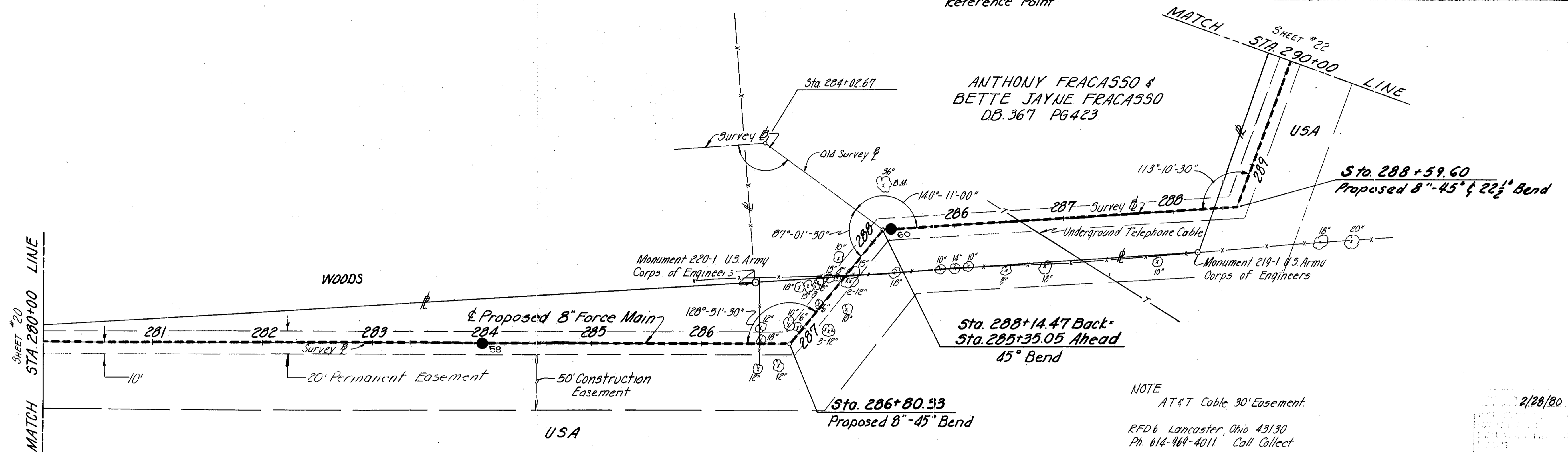
DATE	
BY	
SURVISED	
NOTE BOOK	
NO. 22-1-1-1	

DATE	
BY	
SURVISED	
NOTE BOOK	
NO. 22-1-1-1	

~ Bench Mark ~  
 Mine spike in Northeast side  
 of a 36" Oak, 32' left of Sta.  
 285+5 on old survey Base line  
 Elev. 922.84



CONSULTING ENGINEERS				BURGESS & NIPLE, LIMITED		COLUMBUS, OHIO	
DELaware COUNTY, OHIO						ALUM CREEK INTERCEPTOR	
SANITARY SEWER						WEST BRANCH FORCE MAIN STA. 280+00 TO STA. 290+00	
REVISIONS	SCALE	DRAWN BY	CHECKED BY	DATE	SHEET	OF	
	1" = 5' VERT. 1" = 50' HOR.	BLD	E.D.S.	SEPTEMBER, 1974	21	29	



NOTE  
 AT&T Cable 30' Easement  
 RFD 6 Lancaster, Ohio 43130  
 Ph. 614-964-4011 Call Collect

2/28/80

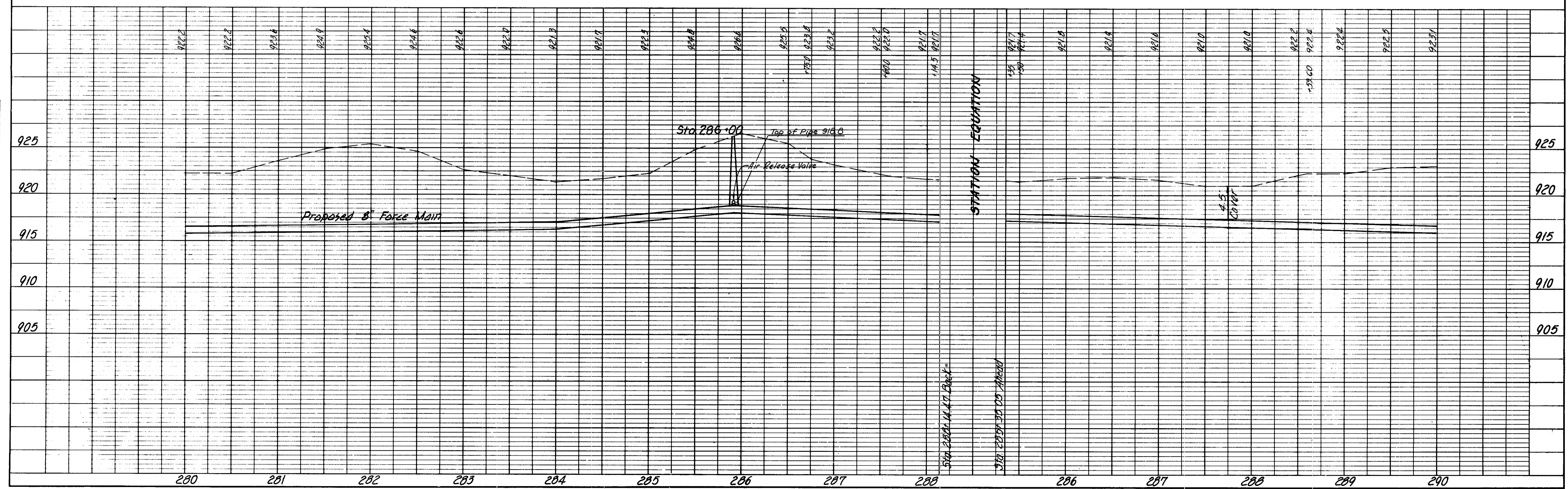
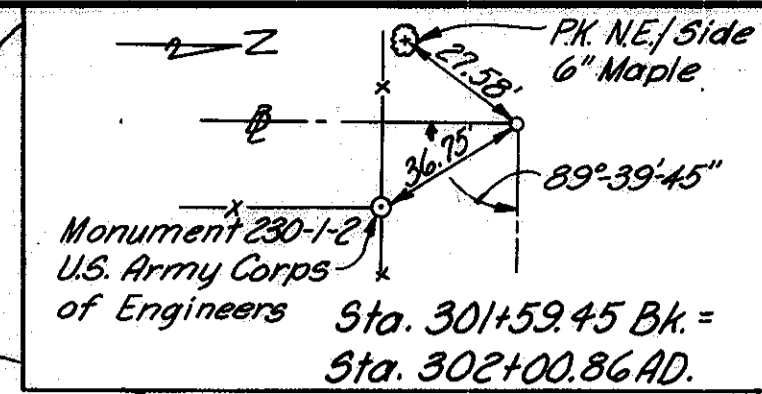
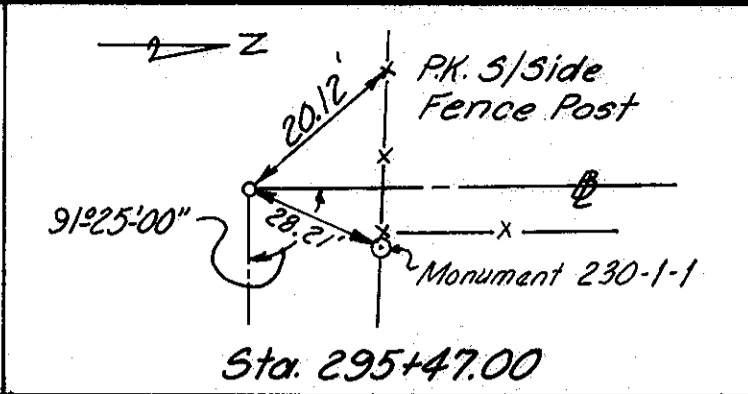
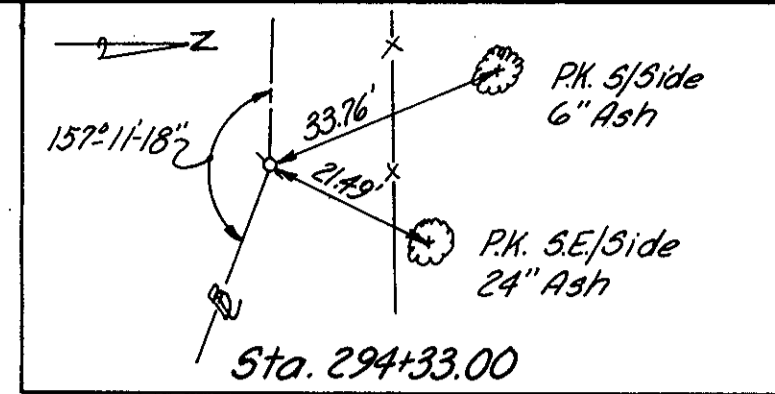


PLATE 1 PLAN-PROFILE B & P R STANDARD  
 EUGENE DETZGEN CO. CHICAGO - NEW YORK

West Branch Alum Creek Interceptor Force Main Sta. 280+00 to Sta. 290+00



CONSULTING ENGINEERS  
BURGESS & NIPLE, LIMITED  
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR**  
SANITARY SEWER  
WEST BRANCH FORCE MAIN STA. 290+00 TO STA. 295+33

SCALE 1" = 5' VERT.  
1" = 50' HOR.

DRAWN BY DFC  
CHECKED BY EDS

DATE  
APRIL, 1975

SHEET 22 OF 29

Reference Points

~ Bench Mark ~  
RR Spike East Side 14" Walnut  
Sta. 295+24, 122' Lt.  
Elev. 910.73

ANTHONY FRACASSO &  
BETTE JAYNE FRACASSO  
D.B. 367 PG. 423

M.H. 60  
Sta. 301+59.45 Bk =  
Sta. 302+00.86 AD.  
T.C. 925.00

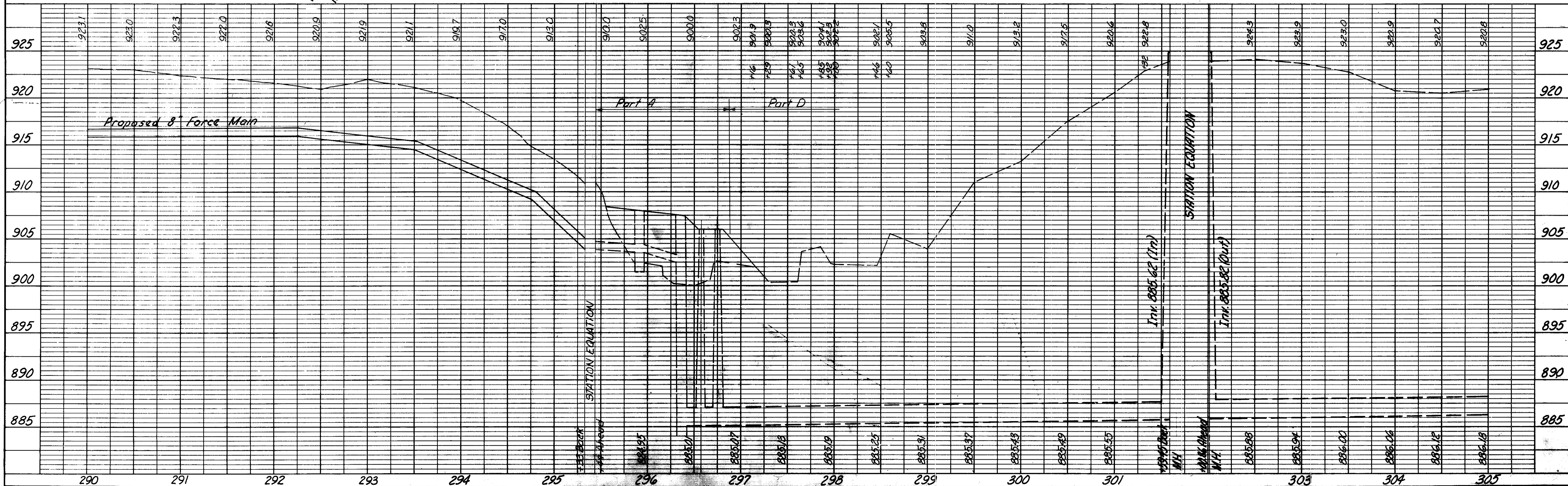
RUTH K. HENSON  
D.B. 235 PG. 644  
D.B. 323 PG. 304

~ Bench Mark ~  
RR Spike West Side 12" Wild Cherry  
Sta. 302+15, 25' Rt.  
Elev. 923.82

REVISED 2/28/80  
THE INFORMATION CONTAINED HEREIN IS FOR GENERAL INFORMATION ONLY. ENGINEER SHALL VERIFY INFORMATION TAKEN FROM THE DRAWINGS.

DATE	
BY	
PLAN	
REVISION	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

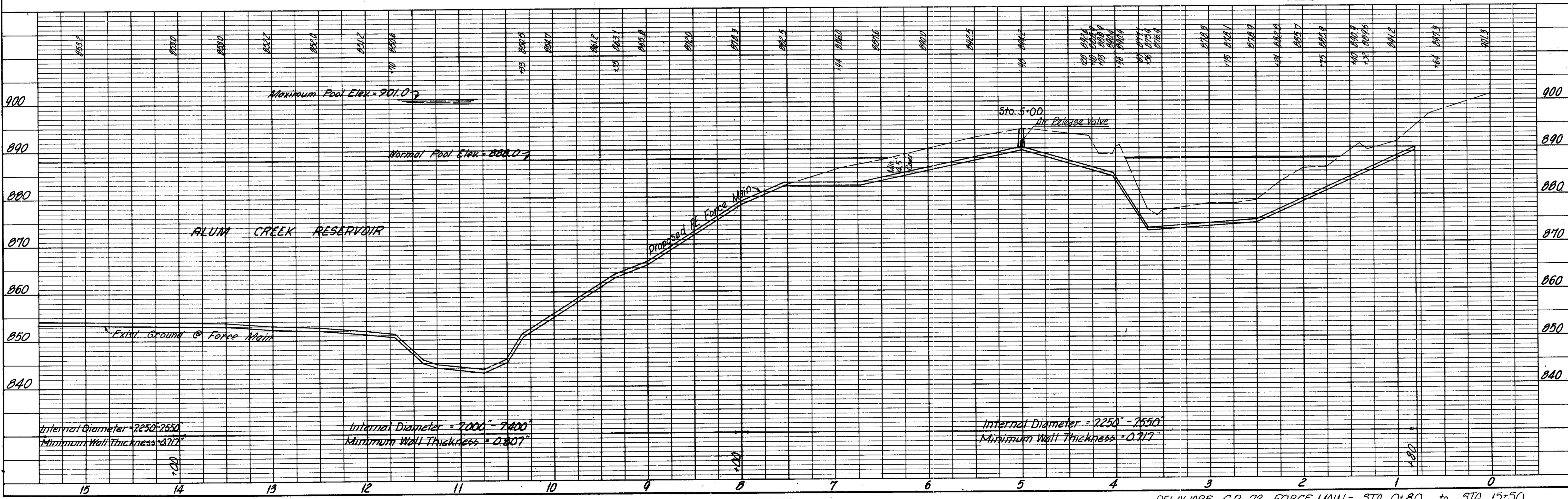
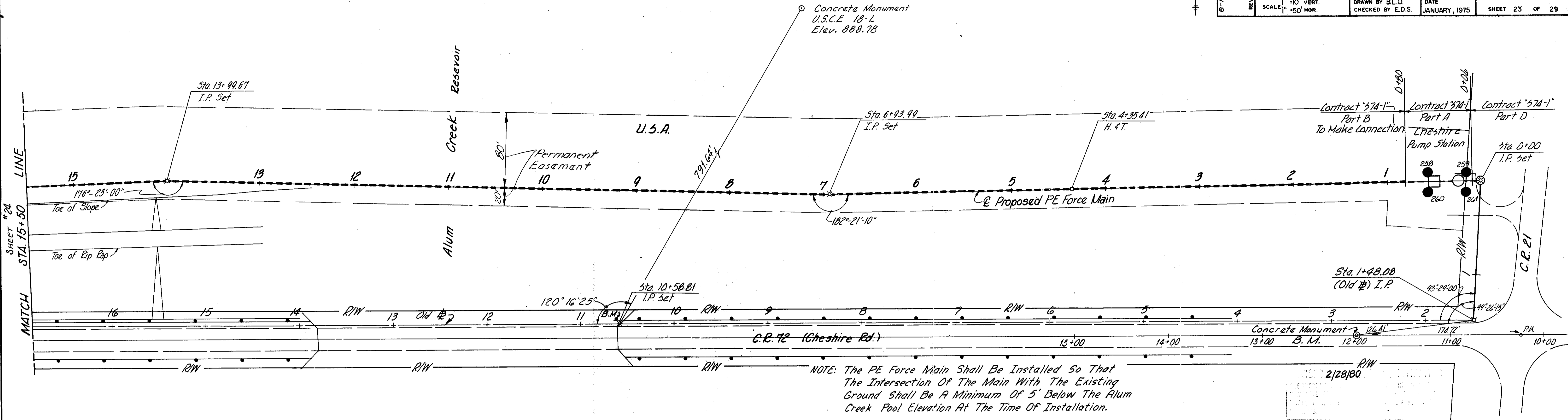
DATE	
BY	
PROFILE	
REVISION	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



Bench Mark  
Top of Guard Rail post with cut  
painted, @ end of Bridge.  
Elev. 915.88

Bench Mark  
Painted center of Monument Box  
Cheshire Rd. Sta 12+00.  
Elev. 904.08

Concrete Monument  
U.S.C.E. 18-L  
Elev. 888.78



Bench Mark  
Railroad Spike in Power  
Pole # D102 A 162  
Elev. 901.63

Bench Mark  
Railroad Spike in Power Pole  
# D 102 A 158  
Elev. 903.04

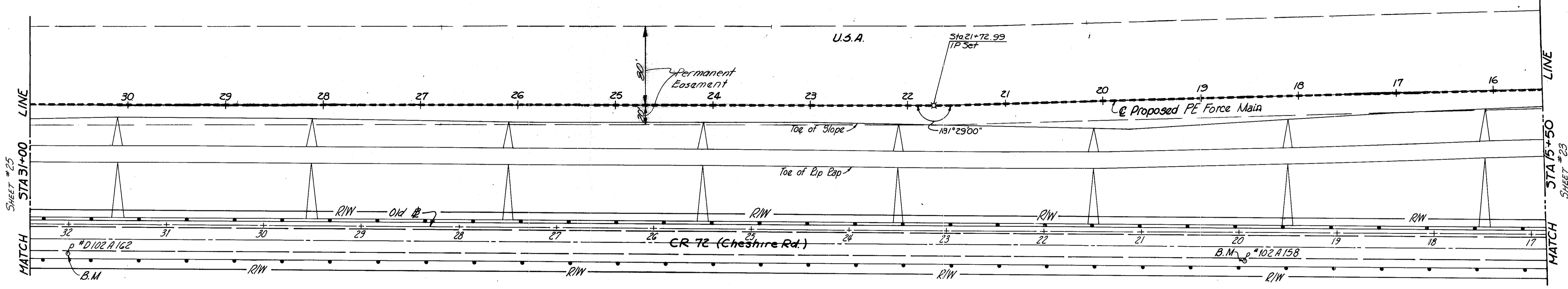
ALUM CREEK RESERVOIR

CONSULTING ENGINEERS		BURGESS & NIPLE, LIMITED		COLUMBUS, OHIO	
DELAWARE COUNTY, OHIO					
ALUM CREEK INTERCEPTOR SANITARY SEWER					
DELAWARE C.R. 72 FORCE MAIN STA. 15+50 TO STA. 31+00					
REVISIONS	SCALE 1" = 10' VERT. 1" = 50' HOR.	DRAWN BY Breck	CHECKED BY E.D.S.	DATE JANUARY, 1975	SHEET 24 OF 29



DATE	BY

PLAN  
NOTE BOOK  
ALUMINUM CHECKED  
No. 74-53



REVISIONS  
2/28/80

DATE	BY

PROFILE  
NOTE BOOK  
GRADE CHECKED  
No. 74-53

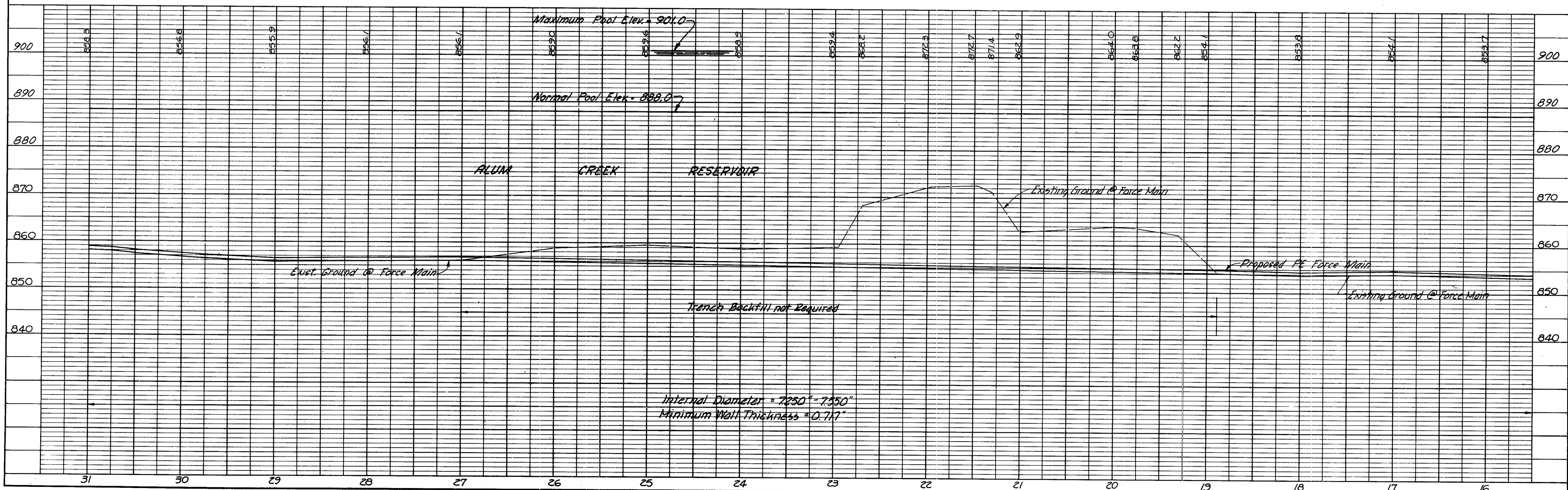


PLATE 1 PLAN-PROFILE B P R STANDARD  
EUGENE DETZOLD CO., CHICAGO, NEW YORK

DELAWARE C.R. 72 FORCE MAIN - STA. 15+50 to STA. 31+00





CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

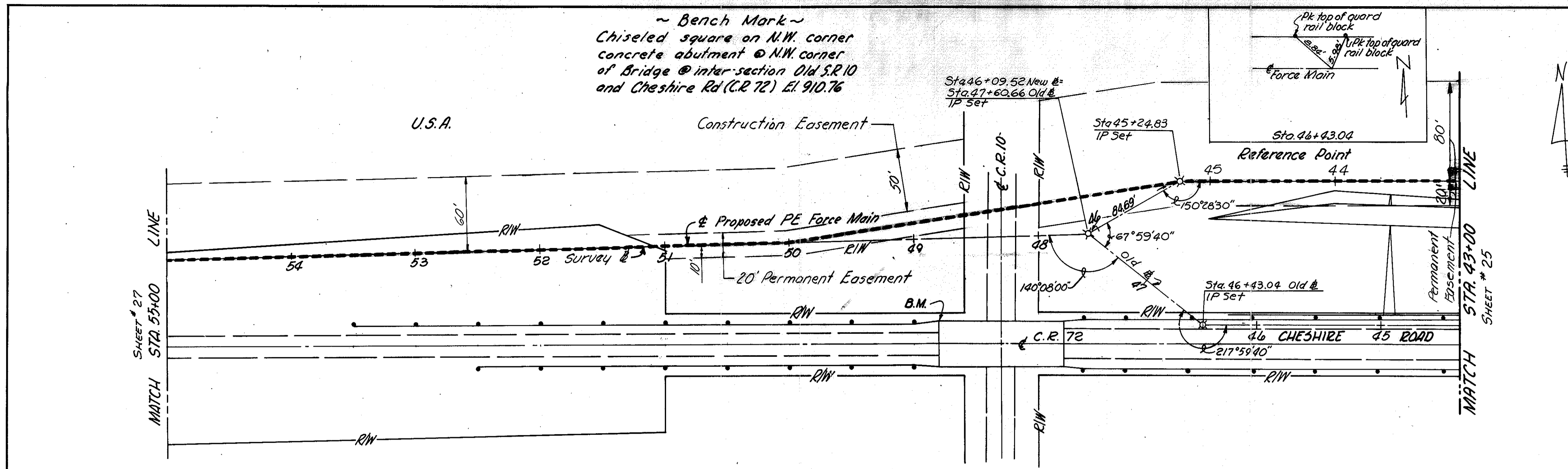
DELAWARE COUNTY, OHIO

**ALUM CREEK INTERCEPTOR SANITARY SEWER**

DELAWARE C.R. 72 FORCE MAIN STA. 43+00 TO STA. 55+00

SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY J.D.M. DATE OCTOBER, 1974 CHECKED BY E.D.S. SHEET 26 OF 29

DATE	
BY	
REVISIONS	
NO. 22-23	
DATE	
BY	
REVISIONS	
NO. 22-23	
DATE	
BY	
REVISIONS	



NOTE: The PE Force Main Shall Be Installed So That The Intersection Of The Main With The Existing Ground Shall Be A Minimum Of 5' Below The Alum Creek Pool Elevation At The Time Of Installation, but no higher than El. 882.7.

REVISED 2/28/80 AS CONSTRUCTED  
THE INFORMATION SHOWN HEREON IS INTENDED TO BE COMPLETE AND CORRECT. HOWEVER, ALL PARTIES SHALL VERIFY INFORMATION TAKEN FROM THIS DRAWING.

DATE	
BY	
REVISIONS	
NO. 22-23	
DATE	
BY	
REVISIONS	
NO. 22-23	
DATE	
BY	
REVISIONS	

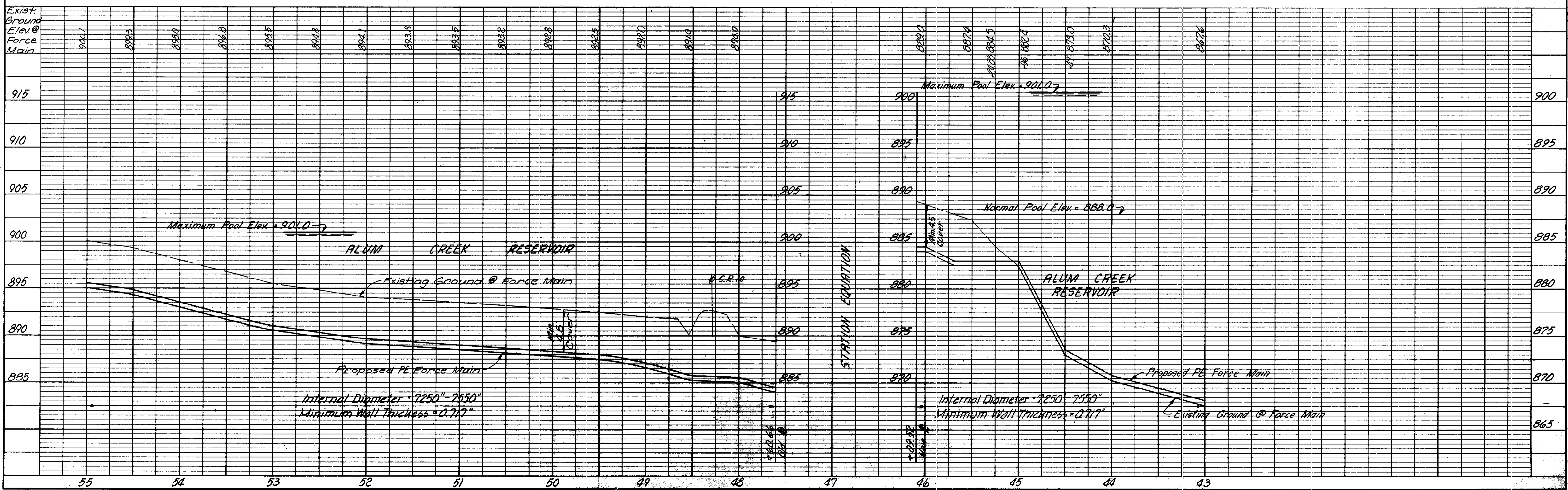


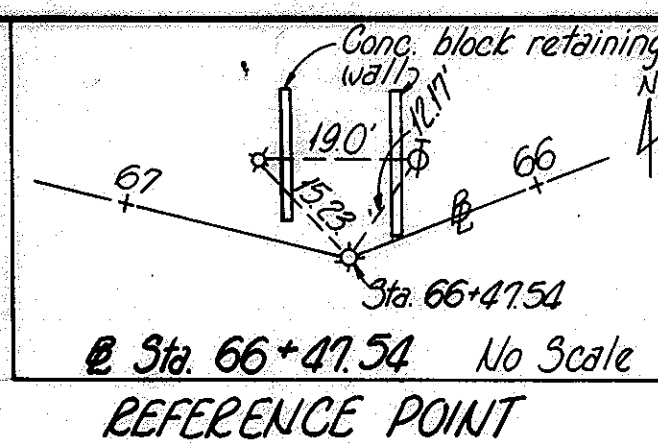
PLATE 1 PLAN - PROFILE B P R STANDARD

DELAWARE C.R. 72 FORCE MAIN - STA. 43+00 to STA. 55+00

CONSULTING ENGINEERS BURGESS & NIPLE, LIMITED COLUMBUS, OHIO  
 DELAWARE COUNTY, OHIO  
**ALUM CREEK INTERCEPTOR  
 SANITARY SEWER**  
 DELAWARE C.R. 72 FORCE MAIN STA. 55+00 TO STA. 67+00

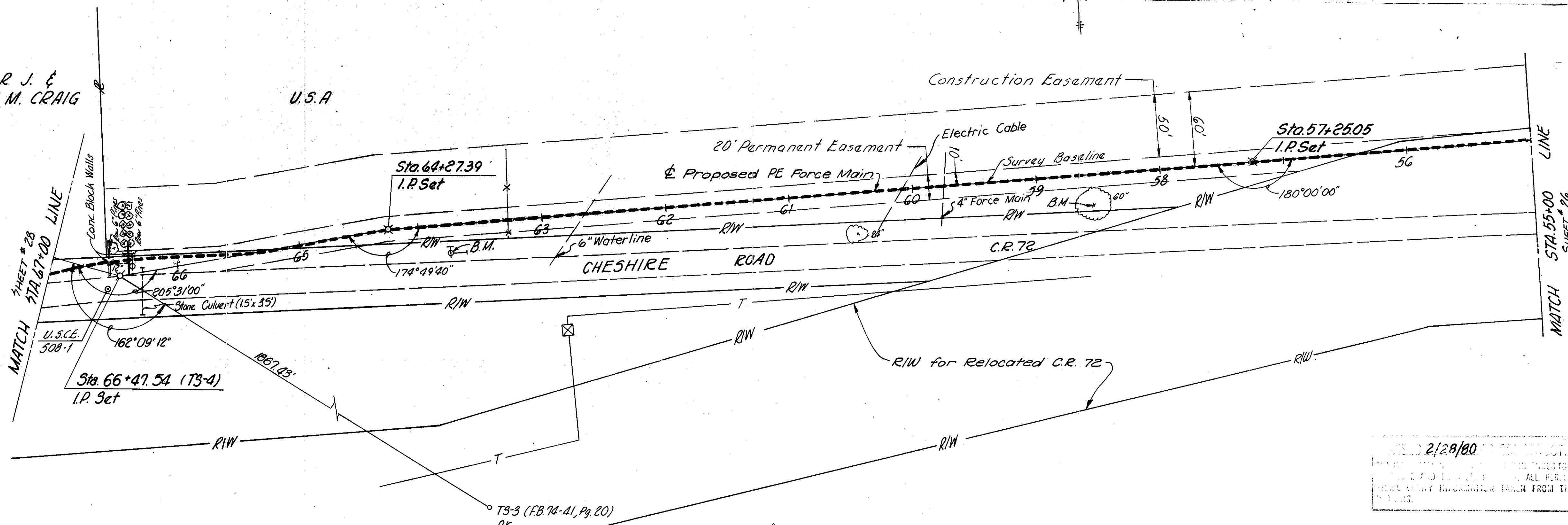
SCALE: 1" = 5' VERT. 1" = 50' HOR. DRAWN BY J.D.M. DATE OCTOBER, 1974 CHECKED BY E.D.S. SHEET 27 OF 29

~Bench Mark~  
 P.K. in N/S Telephone Pole  
 18.5' Left @ Sta. 63+74  
 Elev. 919.26



~Bench Mark~  
 Railroad Spike 5/8 60" Oak  
 N/S Cheshire Rd., 25' Left  
 of @ Sta. 58+55  
 Elev. 912.96

WALTER J. &  
 KATHRYN M. CRAIG



PLAN  
 NOTE BOOK GRADE CHECKED  
 No. 74-41  
 7-1-75

PROFILE  
 NOTE BOOK GRADE CHECKED  
 No. 74-42  
 8-1-75

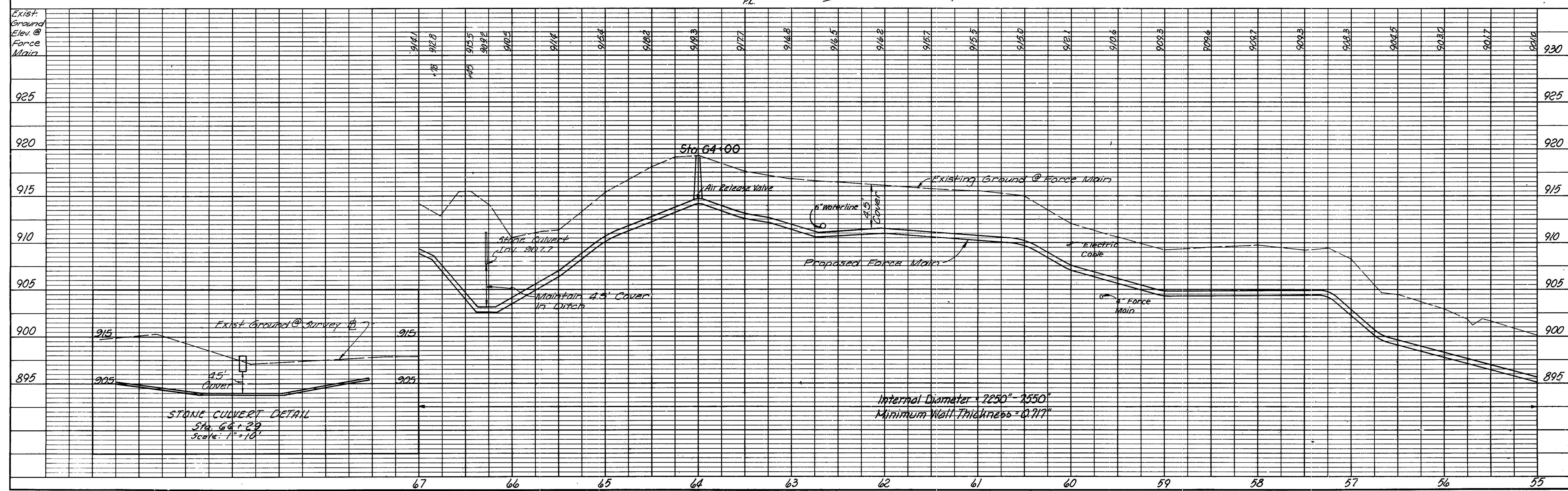
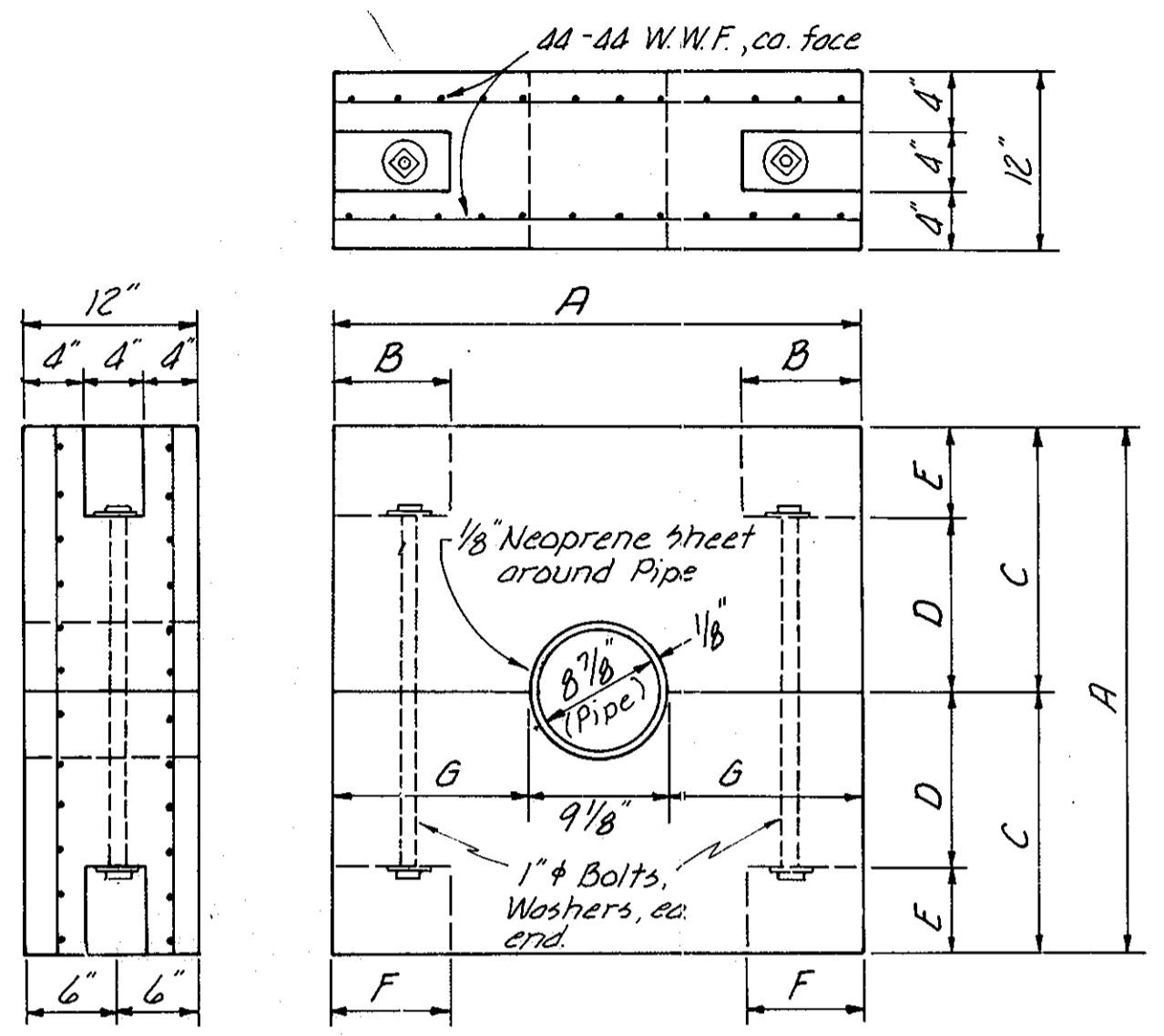
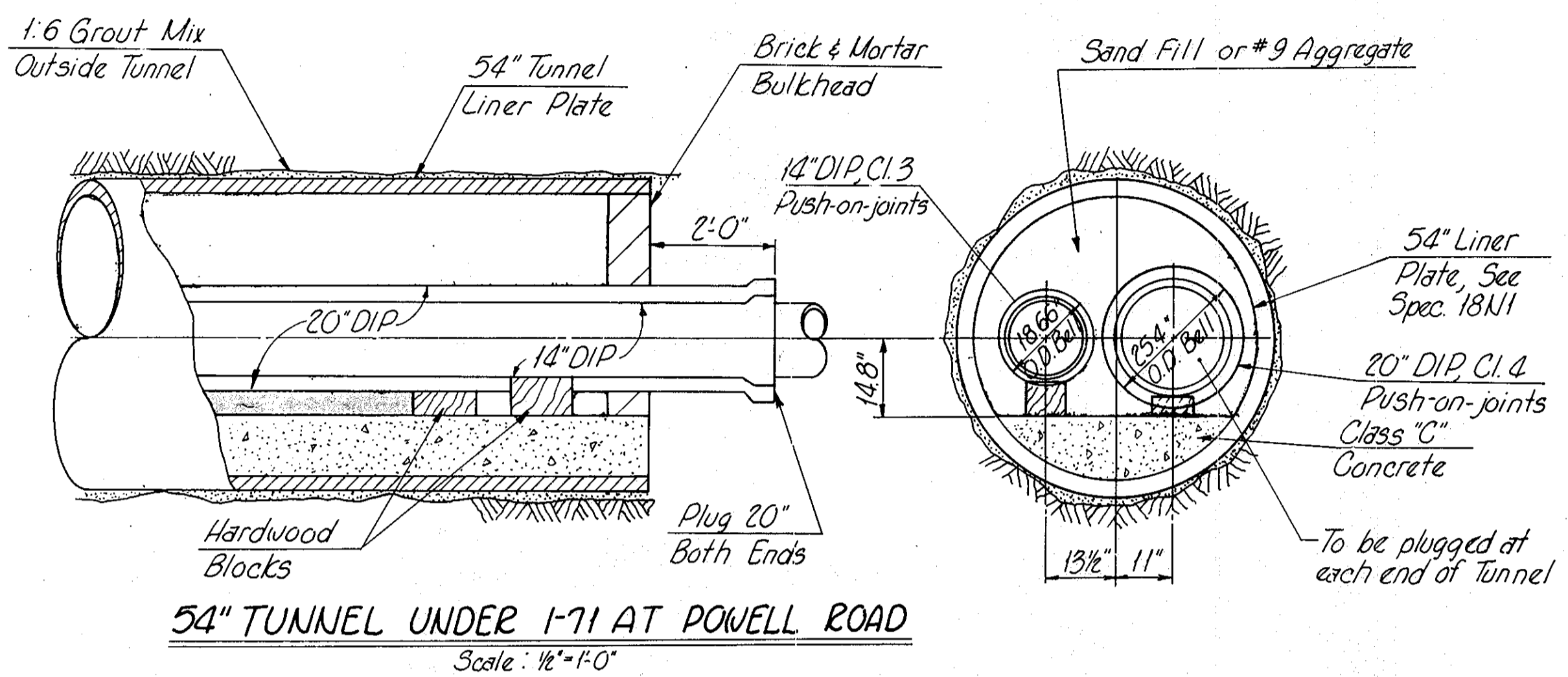


PLATE 1 PLAN - PROFILE B P R STANDARD  
 ENGINE DETAIL CO. CHICAGO, ILL. 1968

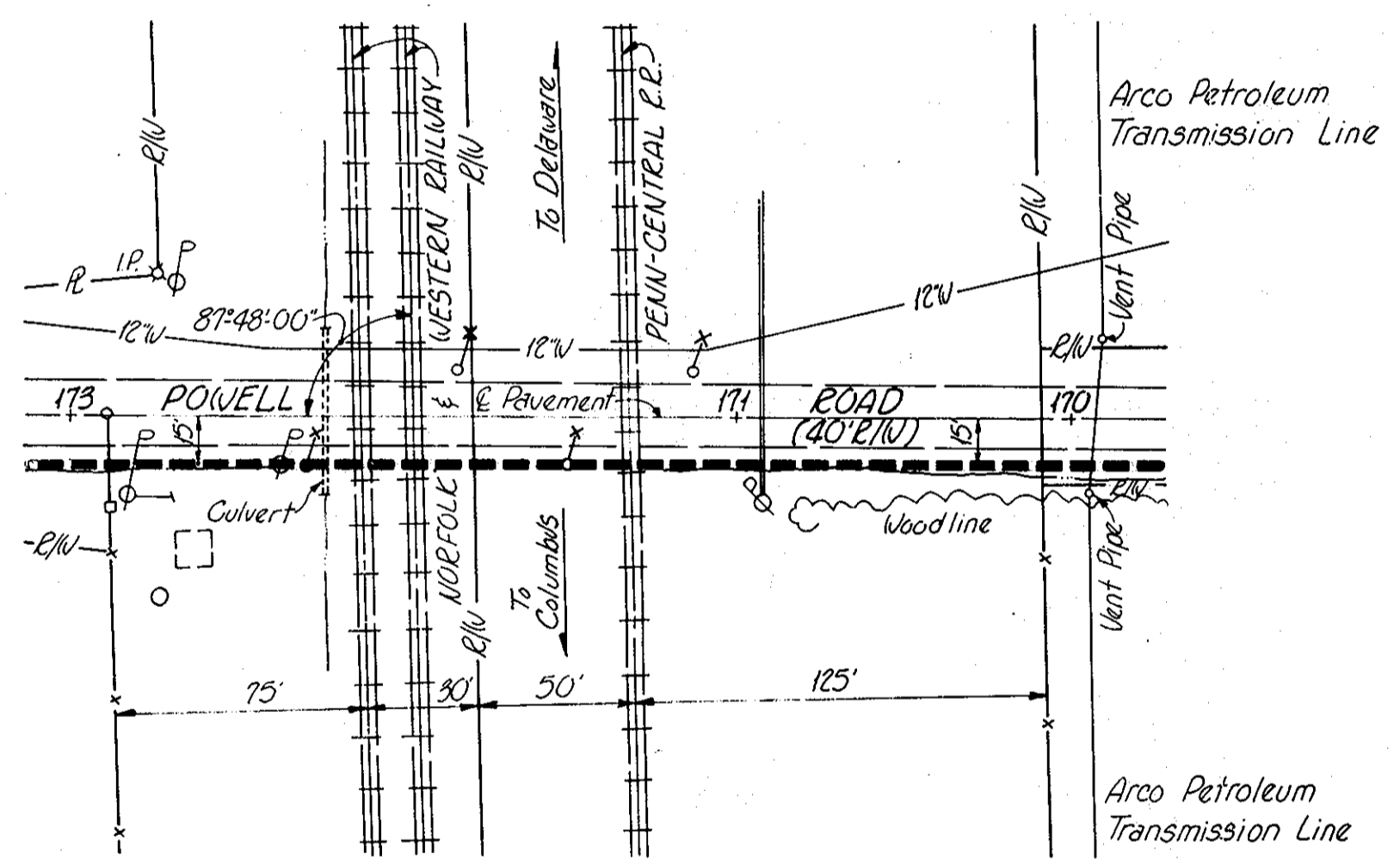
DELAWARE C.R. 72 FORCE MAIN - STA. 55+00 to STA. 67+00

2/28/80  
 ALL P.R.S.  
 INFORMATION FROM THE



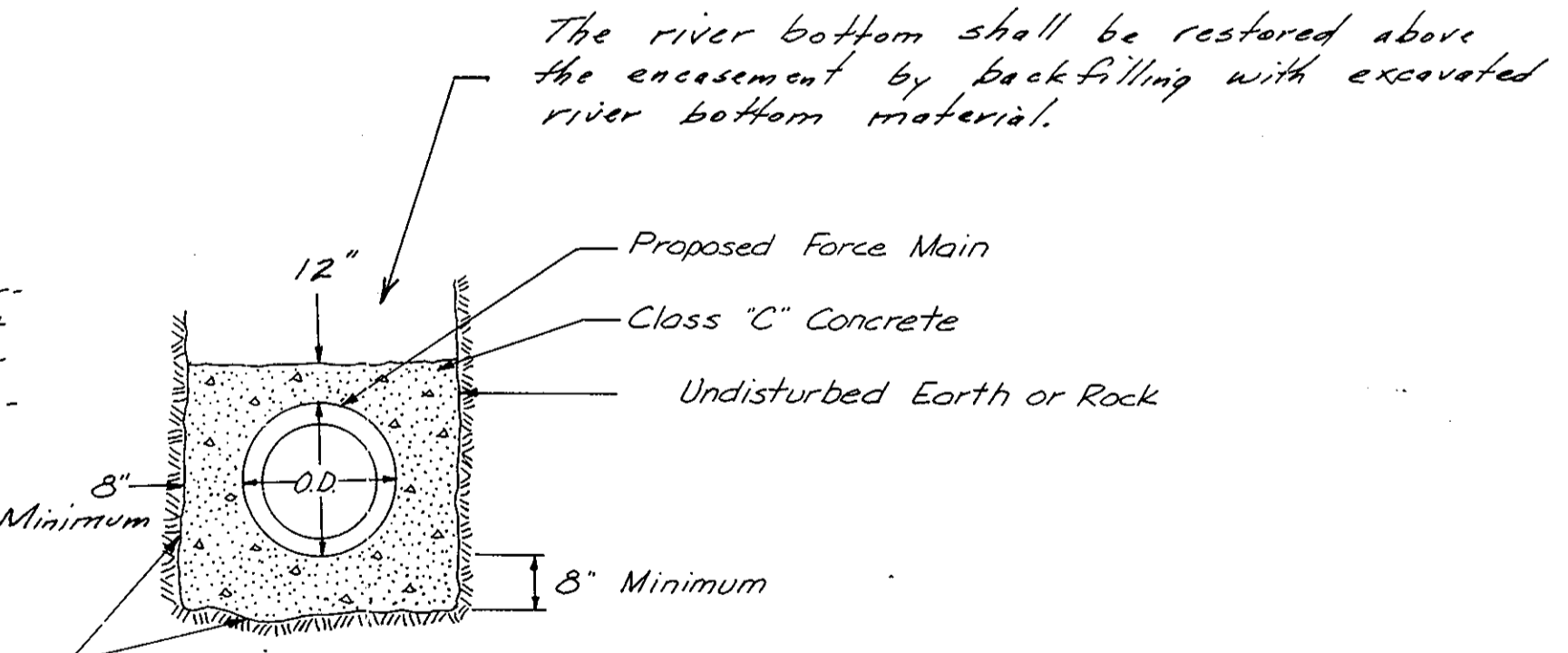


		A	B	C	D	E	F	G	SPACING	NO. REQ'D.
TYPE I	Sta. 0+80 to Sta. 8+00	24"	6"	12"	8"	4"	3"	7 1/2"	10'-0" @ 6'	308
	Sta. 18+00 to Sta. 15+00									
TYPE II	Sta. 8+00 to Sta. 14+00	36"	8"	18"	12"	6"	5"	13 3/4"	10'-0" @ 6'	60

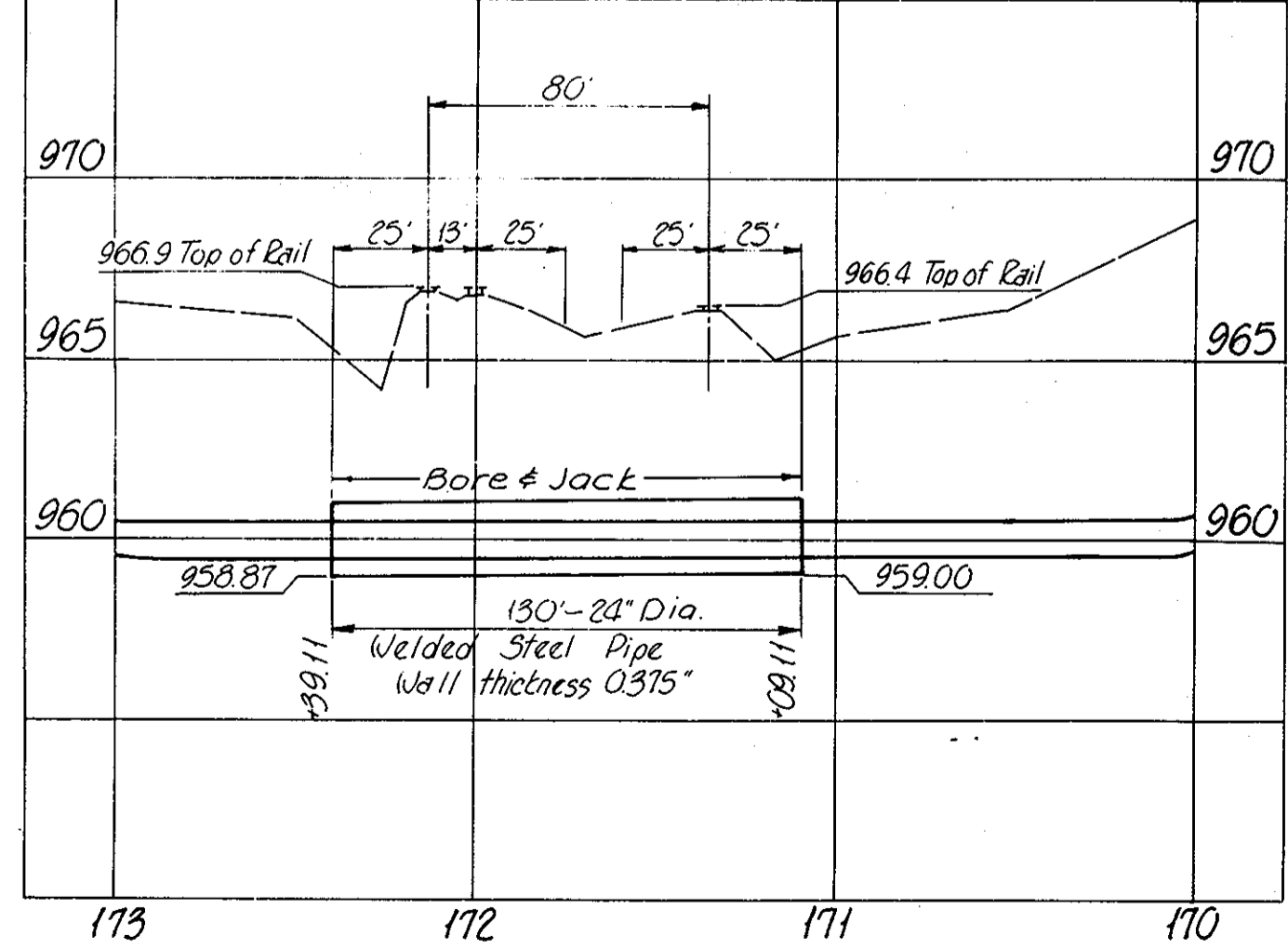


**Concrete Pipe Anchor**  
hole: 1'-1'-0"  
DELAWARE C.R. 72 Force Main

NOTE: The encasement limits shall be determined at the time of construction such that the encasement terminates at a water pipe joint. The joint shall be free of encasement so that it can act as a flexible joint. Payment to be included in cost of Force Main.



**TYPICAL CONCRETE ENCASEMENT**  
No Scale



**Railroad Crossing Powell Rd Force Main**  
Sta. 171+09.11 to Sta. 172+39.11