

CHARLES E. MCKINNEY & ASSOCIATES

Civil Engineers and Surveyors

5591 RIDGE ROAD ★ PARMA, OHIO 44129
886-1245

1 OF 3

INSTRUCTIONS TO INSPECTOR

CUTS FOR BRANDYWINE ESTATES - WATERMAIN

FROM 24+90

TO 14+34

STATION	CROSS OR STAKE ELEVATION	FINISHED GRADE	CUT TO <u>BTM. TRENCH</u>			REMARKS
			DECIMAL	FEET	INCHES	
			<u>MARVYCK</u>			
			STAKED 8' @ (SOUTH) OF PROPOSED WATERMAIN			
24+90	971 00	964 67	6 33	6'	4"	CUT TO BOTTOM TRENCH (LINE VALVE)
24+50	970 48	964 53	5 95	5'	11 $\frac{3}{8}$ "	
24+00	971 30	964 35	6 95	6'	11 $\frac{3}{8}$ "	
23+50	970 17	964 15	6 02	6'	$\frac{1}{4}$ "	
23+00	969 74	963 99	5 75	5'	9"	
		963 83	6 17	6'	2"	CUT TO BOTTOM TRENCH 8' @ HYD.
22+55	970 00	970 79	0 79	0'	9 $\frac{1}{2}$ " *	FILL TO FINISH GRADE 8' @ HYD.
22+50	970 05	963 81	6 24	6'	2 $\frac{7}{8}$ "	(HYD. TEE)
22+00	969 91	963 63	6 28	6'	3 $\frac{3}{8}$ "	
21+82.25	969 88	963 55	6 33	6'	4"	
21+50	969 36	963 60	5 76	5'	9 $\frac{1}{8}$ "	
21+00	969 61	963 75	5 86	5'	10 $\frac{3}{8}$ "	
20+50	970 04	963 90	6 14	6'	1 $\frac{5}{8}$ "	
20+24	970 12	963 97	6 15	6'	1 $\frac{3}{4}$ "	P.R.C.
20+00	969 88	964 05	5 83	5'	10"	
		964 11	6 16	6'	17 $\frac{1}{2}$ "	CUT TO BOTTOM TRENCH 8' @ HYD.
19+80	970 27	971 00	0 73	0'	8 $\frac{3}{4}$ " *	FILL TO FINISH GRADE 8' @ HYD.
19+48	970 63	964 20	6 43	6'	5 $\frac{1}{8}$ "	CUT TO BOTTOM TRENCH (LINE VALVE)
19+08	971 35	964 33	7 02	7'	$\frac{1}{4}$ "	
18+88.4	970 72	964 38	6 34	6'	4 $\frac{1}{8}$ "	P.C.
18+00	970 31	964 65	5 66	5'	7 $\frac{1}{2}$ "	
		964 89	6 07	6'	7 $\frac{1}{8}$ "	CUT TO BOTTOM TRENCH 8' @ HYD.
17+20	970 96	971 78	0 82	0'	9 $\frac{1}{8}$ " *	FILL TO FINISH GRADE 8' @ HYD.
17+00	970 99	964 95	6 04	6'	$\frac{1}{2}$ "	
16+00	970 77	965 25	5 52	5'	6 $\frac{1}{4}$ "	
15+00	971 76	965 55	6 21	6'	2 $\frac{1}{2}$ "	
		965 75	5 83	5'	10"	CUT TO BOTTOM TRENCH 8' @ HYD.
14+34	971 58	972 64	1 06	1'	3 $\frac{1}{4}$ " *	FILL TO FINISH GRADE 8' @ HYD.

NOTE - SHOULD GRADES FAIL TO CHECK, COMMUNICATE WITH ENGINEER OR TELEPHONE ENGINEER'S OFFICE AT ONCE.

DATE SEPTEMBER 9 19 69 SIGNED R. FRUIT

CHARLES E. MCKINNEY & ASSOCIATES

2 OF 3

Civil Engineers and Surveyors

5591 RIDGE ROAD ★ PARMA, OHIO 44129
886-1245

INSTRUCTIONS TO INSPECTOR

CUTS FOR BRANDYWINE ESTATES — WATERMAIN

FROM 14 + 34 TO 1 + 95

STATION	CROSS OR STAKE ELEVATION	FINISHED GRADE	CUT TO <u>BTM. TRENCH</u>		REMARKS
			DECIMAL	FEET INCHES	
			MARWYCK (CONT'D)		
		STAKED	8' @ (SOUTH) OF PROPOSED WATERMAIN		
14+00	971 38	965 85	5 53	5' 6 $\frac{3}{8}$ "	
13+00	971 72	966 15	5 57	5' 6 $\frac{3}{8}$ "	
12+00	972 10	966 45	5 65	5' 7 $\frac{3}{4}$ "	
11+34	972 93	966 55	6 28	6' 3 $\frac{3}{4}$ "	CUT TO BOTTOM TRENCH 8' @ HYD.
11+00	972 91	973 54	0 61	0' 7 $\frac{5}{8}$ "	FILL TO FINISH GRADE 8' @ HYD.
11+00	972 91	966 75	6 16	6' 7 $\frac{3}{8}$ "	
10+70.94	973 06	966 81	6 25	6' 3" (8" X 8" TEE)	
10+29.94	972 86	967 00	5 86	5' 10 $\frac{3}{8}$ "	CUT TO BOTTOM TRENCH (LINE VALVE)
10+00	973 86	967 15	6 71	6' 8 $\frac{1}{2}$ "	
9+00	973 58	967 65	5 93	5' 11 $\frac{1}{8}$ "	
8+34	974 24	967 98	6 26	6' 3 $\frac{1}{2}$ "	CUT TO BOTTOM TRENCH 8' @ HYD.
8+00	974 24	974 87	0 63	0' 7 $\frac{1}{2}$ "	FILL TO FINISH GRADE 8' @ HYD.
8+00	973 94	968 15	5 79	5' 9 $\frac{1}{2}$ "	
7+00	974 84	968 65	6 19	6' 2 $\frac{1}{4}$ "	
6+00	974 99	969 15	5 84	5' 10 $\frac{1}{8}$ "	
5+34	975 96	969 48	6 48	6' 5 $\frac{3}{4}$ "	CUT TO BOTTOM TRENCH 8' @ HYD.
5+00	975 96	976 37	0 41	0' 4 $\frac{1}{8}$ "	FILL TO FINISH GRADE 8' @ HYD.
5+00	975 61	969 65	5 96	5' 11 $\frac{1}{2}$ "	
4+00	976 00	970 15	5 85	5' 10 $\frac{1}{4}$ "	
3+00	976 48	970 65	5 83	5' 10"	
2+31	977 32	970 99	6 33	6' 4"	CUT TO BOTTOM TRENCH 8' @ HYD.
2+31	977 32	977 88	0 56	0' 6 $\frac{3}{4}$ "	FILL TO FINISH GRADE 8' @ HYD.
2+13	977 16	971 08	6 08	6' 1"	CUT TO BOTTOM TRENCH (LINE VALVE)
1+95	978 03	971 25	6 78	6' 9 $\frac{3}{8}$ "	

NOTE - SHOULD GRADES FAIL TO CHECK, COMMUNICATE WITH ENGINEER OR TELEPHONE ENGINEER'S OFFICE AT ONCE.

DATE SEPTEMBER 9 19 69 SIGNED R. FRUITB

CHARLES E. MCKINNEY & ASSOCIATES

3 OF 3

Civil Engineers and Surveyors

5591 RIDGE ROAD ★ PARMA, OHIO 44129
886-1245

INSTRUCTIONS TO INSPECTOR

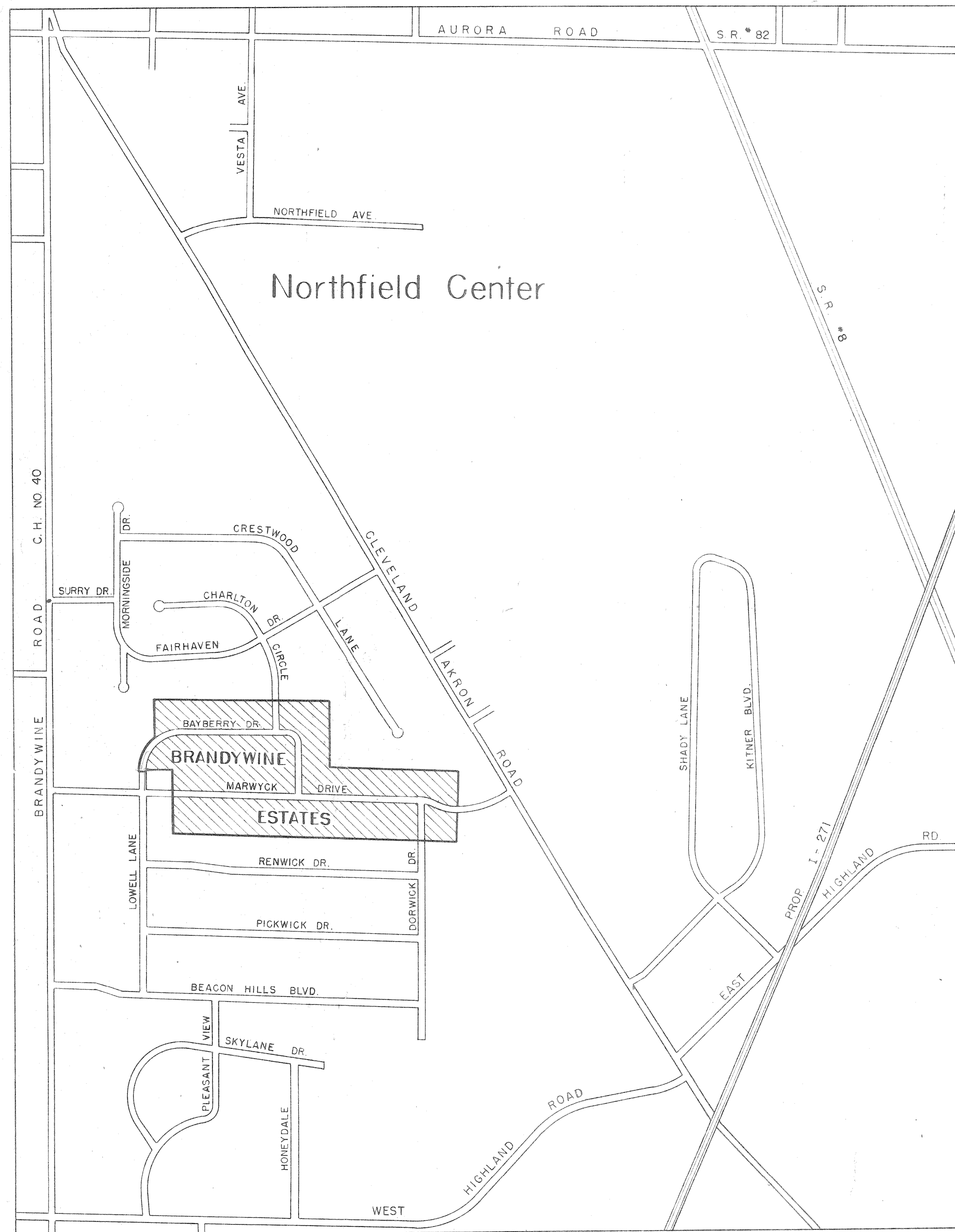
CUTS FOR BRANDYWINE ESTATES - WATERMAIN

FROM 0+33 TO 2+69.75

STATION	CROSS OR STAKE ELEVATION	FINISHED GRADE	CUT TO <u>BTM. TRENCH</u>			REMARKS
			DECIMAL	FEET	INCHES	
			<u>DORWYCK</u>			
			STAKED 8' @ (EAST) PROPOSED WATERMAIN			
0+33	970 60	964 18	6 42	6'	5"	CUT TO BOTTOM TRENCH (LINE VALVE)
1+00	970 60	964 57	6 03	6'	$\frac{3}{8}$ "	
2+00	970 82	964 79	6 03	6'	$\frac{3}{8}$ "	
2+69.75	970 76	964 13	6 63	6'	7 $\frac{1}{2}$ "	CUT TO BTM. TRENCH (FLUSHING PIPE)

NOTE - SHOULD GRADES FAIL TO CHECK, COMMUNICATE WITH ENGINEER OR TELEPHONE ENGINEER'S OFFICE AT ONCE.

DATE SEPTEMBER 9, 1969 SIGNED R. FRUIT'S



LOCATION MAP
SCALE: 1" = 500'

WATER CONSTRUCTION NOTE

ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CLEVELAND WATER DEPARTMENTS CONSTRUCTION AND MATERIAL SPECIFICATIONS. ATTENTION IS DIRECTED TO SECTION 75 "ADDITIONAL WORK" OF SAID SPECIFICATIONS, WHICH ALSO PROVIDES FOR FLUSHING AND STERILIZATION OF MAINS TO BE DONE AT THE EXPENSE OF THE CONTRACTOR.
ALL WATER MAINS TO BE CAST IRON, A.S.A. CLASS 150, 24" LEAD OR SLIP-ON TYPE JOINTS, AND SHALL BE CEMENT LINED. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT ALL PIPE, FITTINGS, VALVES, HYDRANTS AND BRANCHES, OFFSETS OR BENDS AND THE PIPES BETWEEN SAID OFFSETS OR BENDS SHALL HAVE BELL AND BELL OR BELL AND SPIGOT ENDS WITH CAST LEAD JOINTS. THE USE OF SLIP-ON TYPE JOINTS SHALL BE PROHIBITED IN THESE CASES.
THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CITY OF CLEVELAND WATER DEPARTMENT FOR THE INSTALLATION OF ALL WATER CURB CONNECTIONS.

IMPROVEMENT PLAN

FOR

BRANDYWINE ESTATES

IN

NORTHFIELD CENTER TOWNSHIP

SUMMIT COUNTY, OHIO

SANITARY SEWERS & APPURTENANCES

PAVEMENT & DRAINAGE

WATER MAINS & APPURTENANCES

CHARLES E. MCKINNEY & ASSOCIATES
CIVIL ENGINEERS — CLEVELAND, OHIO — SURVEYORS
TEL. 886-1245

OCTOBER, 1968
REV. FEB. 1969
REVISED MARCH, 1969
REVISED APRIL 23, 1969 - WATER MAINS

CONSTRUCTION NOTE

ALL SANITARY SEWERS APPURTENANCES AND CONNECTIONS THERETO SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE SUMMIT COUNTY SANITARY ENGINEERING DEPARTMENT.

THE PAVING AND DRAINAGE WORK IN THIS CONTRACT SHALL BE GOVERNED BY THE CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE SUMMIT COUNTY ENGINEERING DEPARTMENT AND OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS.

APPROVED THIS _____ DAY OF _____, 1969

SUMMIT COUNTY ENGINEER

APPROVED THIS _____ DAY OF _____, 1969

BROAD-BECK DEVELOPMENT CORP.

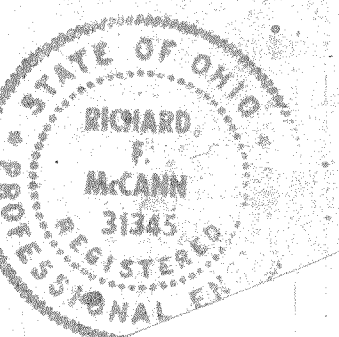
BY _____ MINOR GEORGE _____ PRESIDENT

CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: x\North Hues... Miner York
Revised 1969
JOB #: 20006

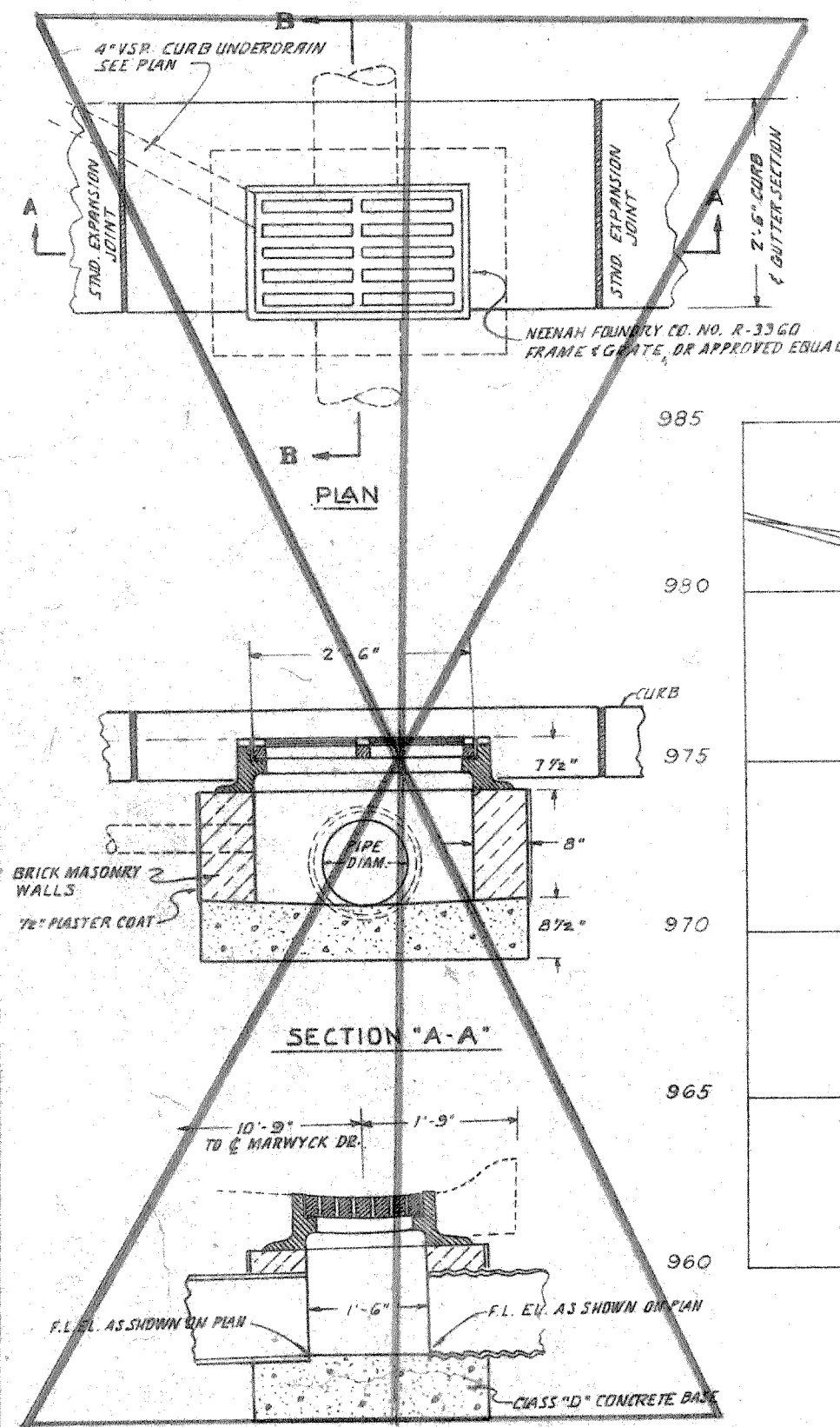
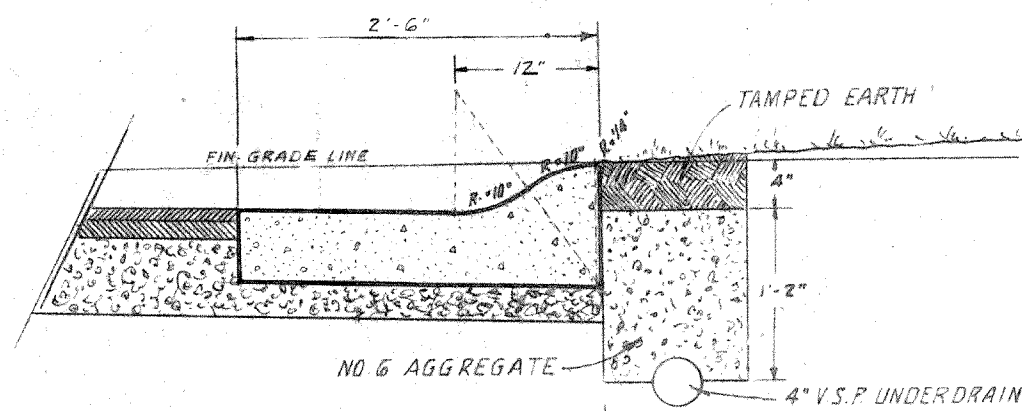
CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: x\North Hues... Bayberry
Revised 1969
JOB #: 20006

CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: x\North Hues... Charlton
Revised 1969
JOB #: 20006

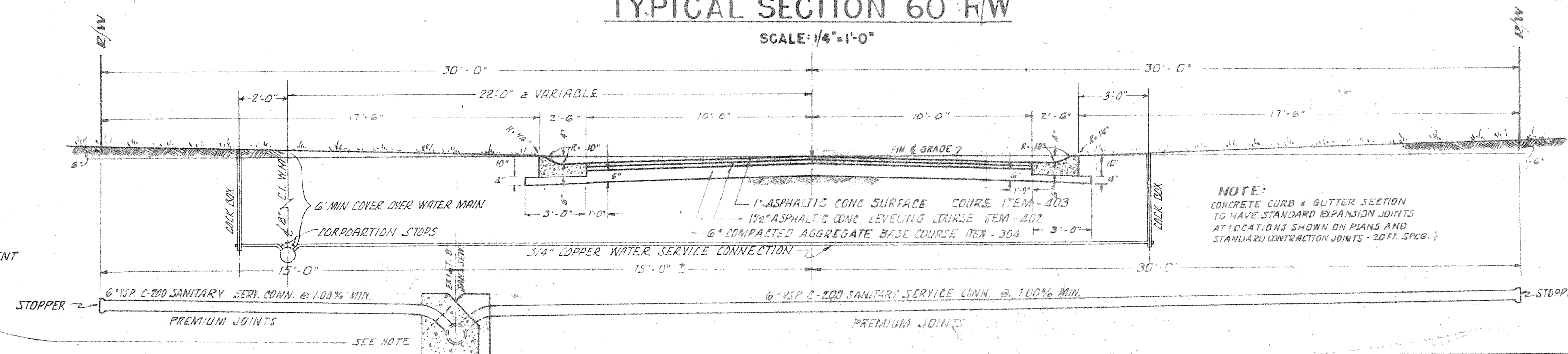
CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: x\North Hues... Revised
Revised 1969
JOB #: 20006



BENCH MARK
ELEV. 980.22
T.S. 300TH SIDE OF POLE # 4209
(S.E. COR. MARWYCK & LOWELL)

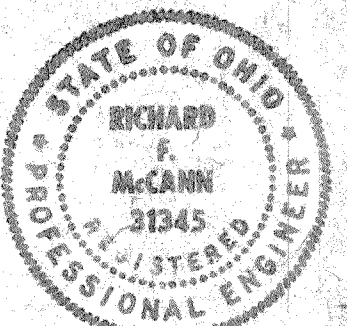
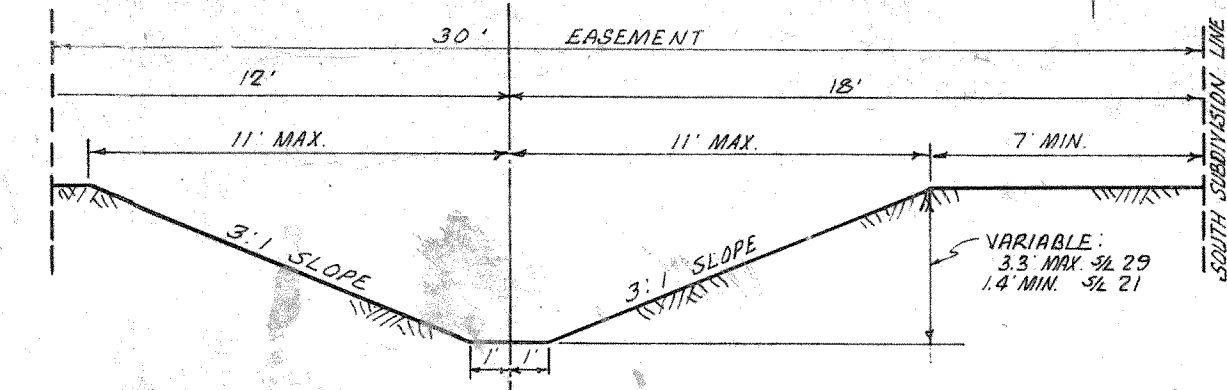
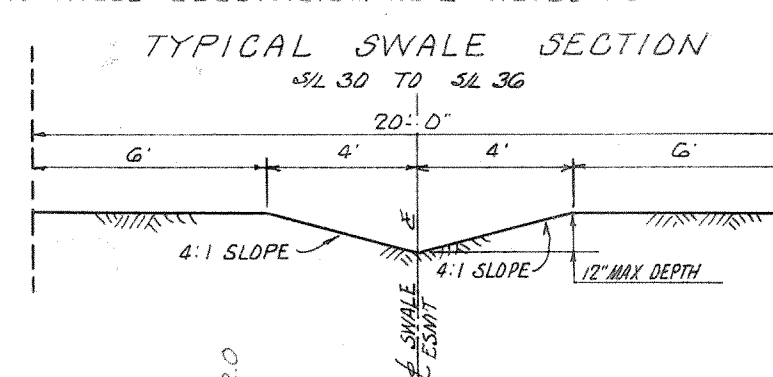


NOTE:
EXIST. SANITARY SEWER TO BE
CAREFULLY HAND-TAPPED.
INSTALL VIT. C200 "Y" SADDLE
4.45" BEND WITH MIN. 6" OF
2500 # CONCRETE ENCASEMENT
AS SHOWN.



LEGEND
--- EXIST. SURFACE
--- EXIST. SURFACE - N. R.W.
--- EXIST. SURFACE - S. R.W.
--- PROPOSED FIN. & GRADE

BEACON HILLS SUBDIVISION NO. 2 P.B. 69 PG. 14-15 & P.B. 70, PG. 1-2



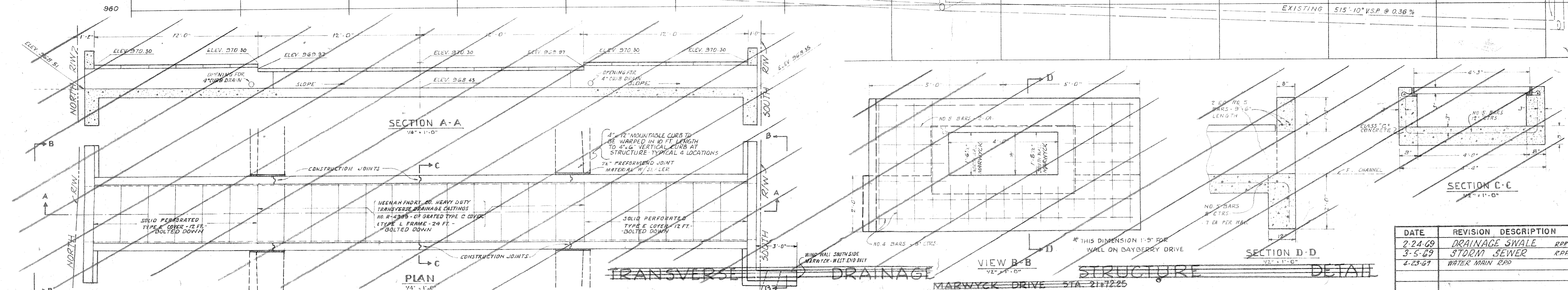
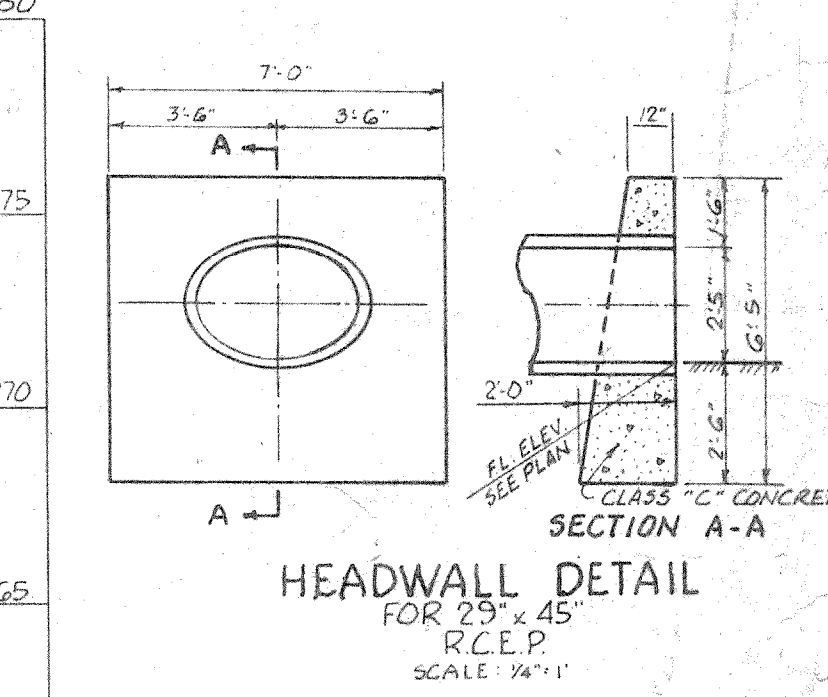
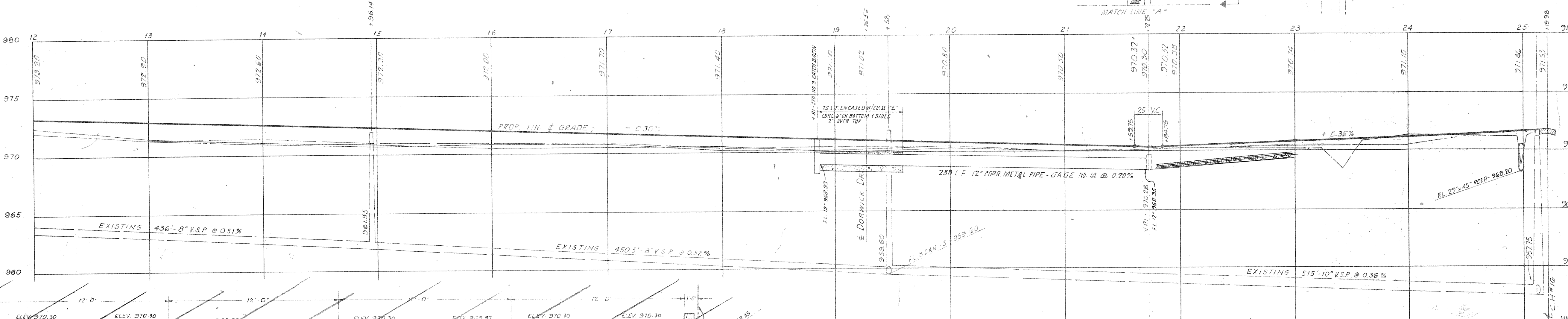
SANITARY SEWERS & APPURTENANCES
PAVEMENT & DRAINAGE
WATER MAINS & APPURTENANCES
BRANDYWINE ESTATES
NORTHFIELD CENTER TWP., SUMMIT COUNTY, O.

CHARLES E. MCKINNEY & ASSOCIATES
CIVIL ENGINEERS SURVEYORS

DATE	REVISION	DESCRIPTION
2-24-69	1	STORM SEWER R.R.P.
3-5-69	2	STORM SEWER R.R.P.
4-25-69	3	WATER MAIN R.R.P.

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

SHEET NO. 1 OF 4



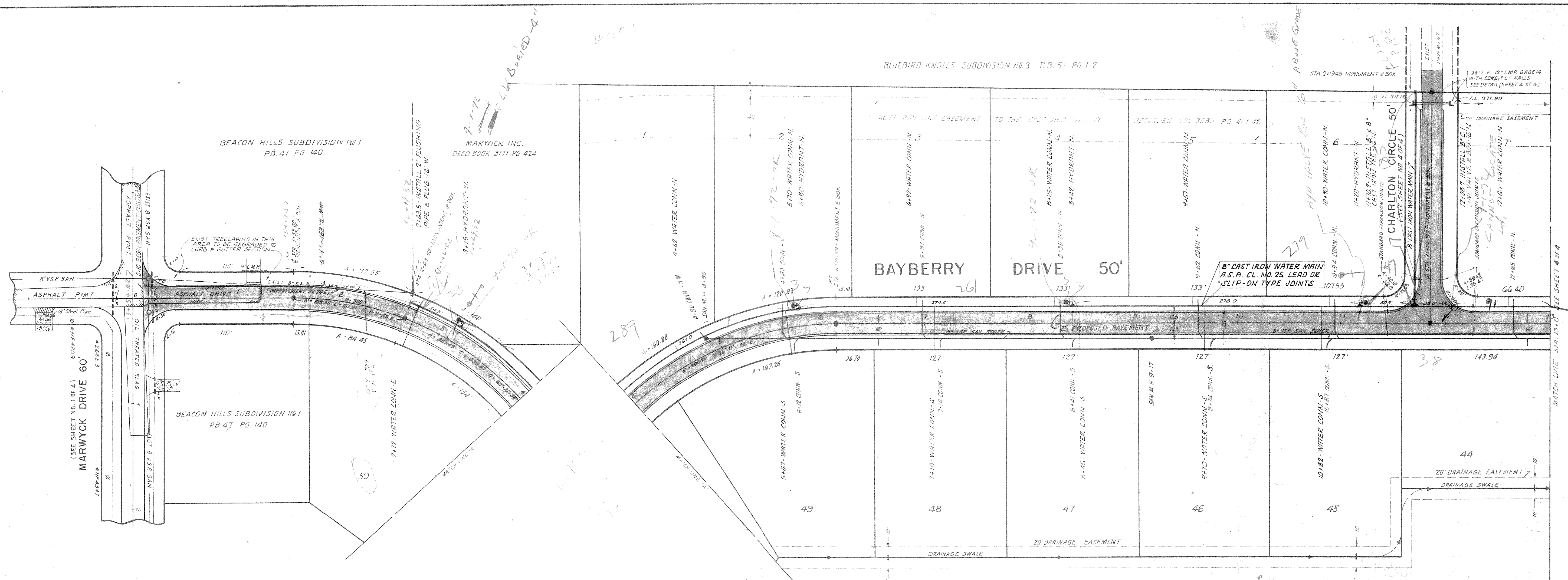
DATE	REVISION	DESCRIPTION
2-24-69	DRAINAGE SWALE	RPP
3-5-69	STORM SEWER	RPP
4-23-69	WATER MAIN	RPP

SANITARY SEWERS & APPURTENANCES
PAVEMENT & DRAINAGE
WATER MAINS & APPURTENANCES
BRANDYWINE ESTATES
NORTHFIELD CENTER TWP. — SUMMIT COUNTY, O.

CHARLES E. MCKINNEY & ASSOCIATES
CIVIL ENGINEERS — SURVEYORS

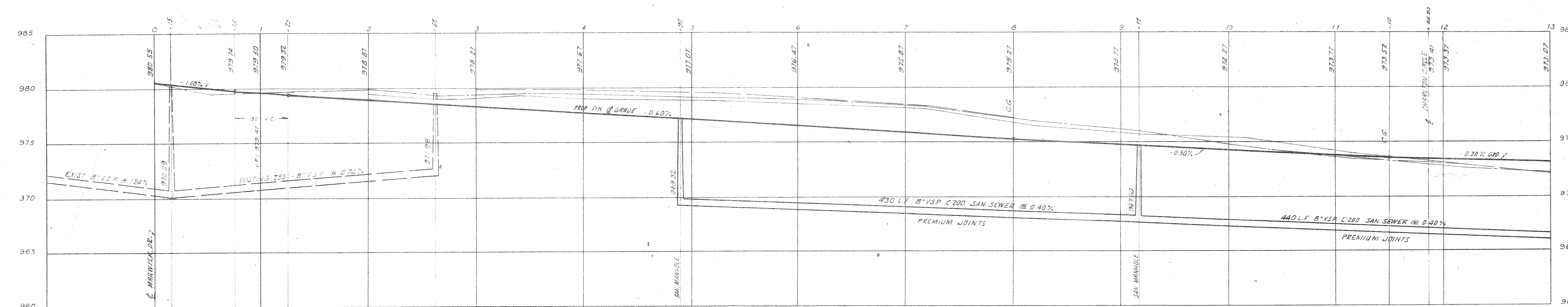
SCALE: $\frac{HORIZ. 1" = 50'}{V. 1" = 10'}$

SHEET NO. 2 OF 4

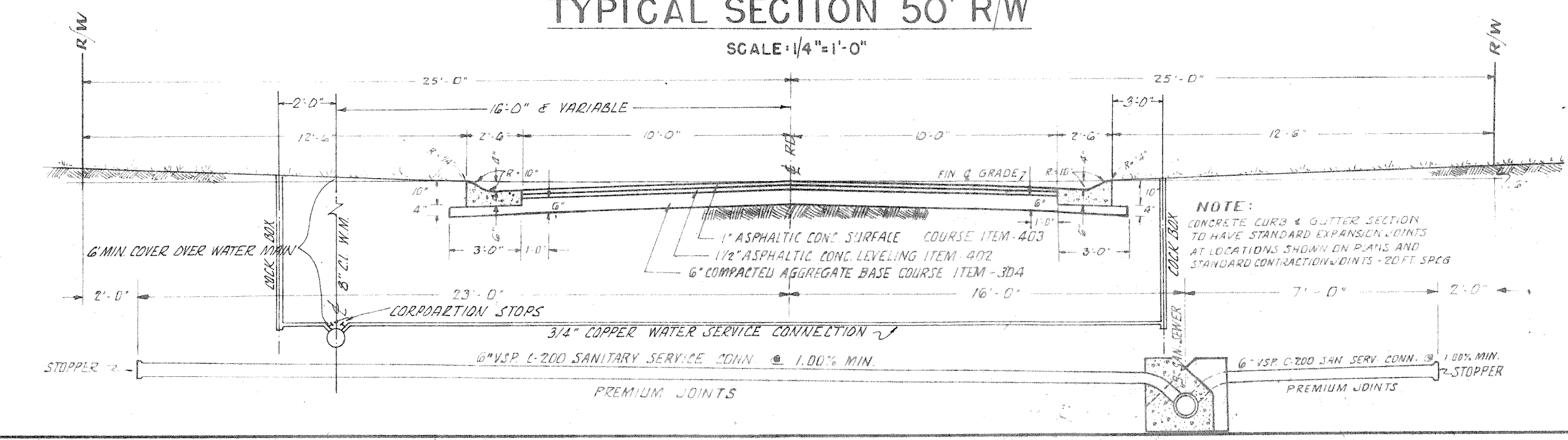


LEGEND

- EXIST. & SURFACE
- EXIST. SURFACE - N. R/W
- EXIST. SURFACE - S. R/W
- PROP. FIN. & GRADE



TYPICAL SECTION 50' R/W
SCALE: 1/4"=1'-0"



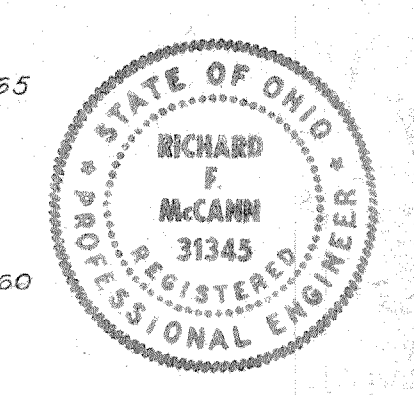
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4-23-07	1	WATER MAIN RPP

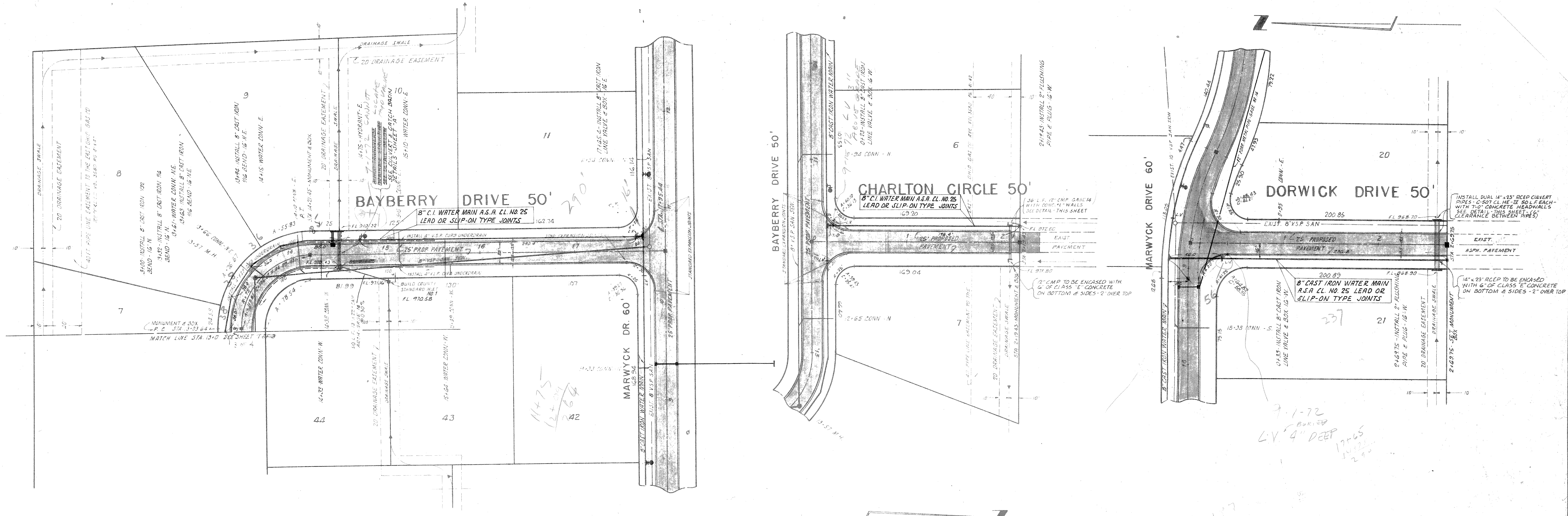
SANITARY SEWERS & APPURTENANCES
PAVEMENT & DRAINAGE
WATER MAINS & APPURTENANCES
BRANDYWINE ESTATES
NORTHFIELD CENTER TWP, — SUMMIT COUNTY, O.

CHARLES E. MCKINNEY & ASSOCIATES
CIVIL ENGINEERS — SURVEYORS

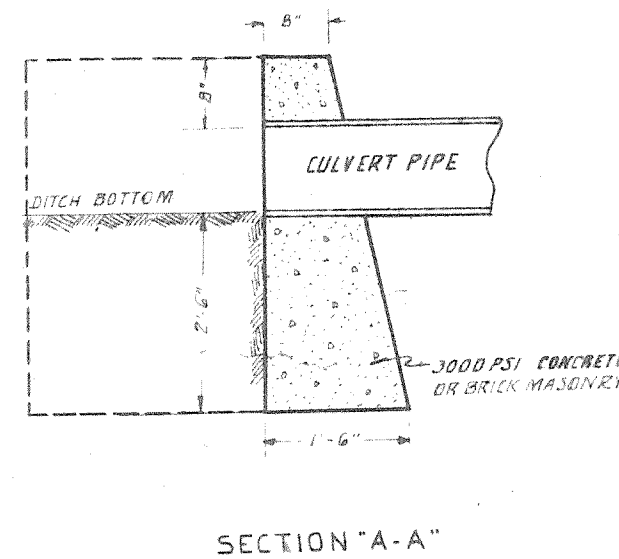
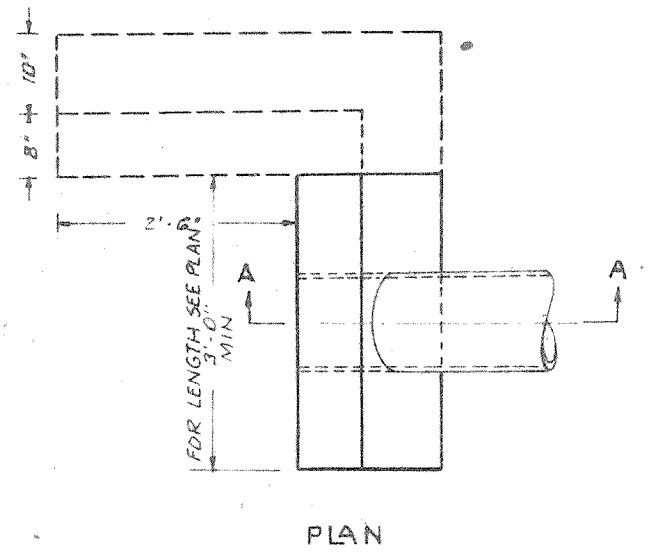
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

SHEET NO. 3 OF 4





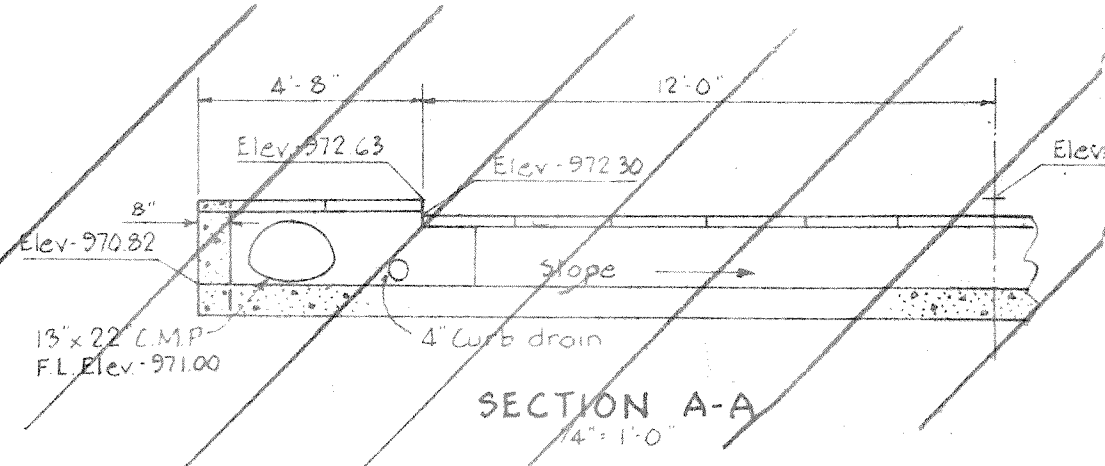
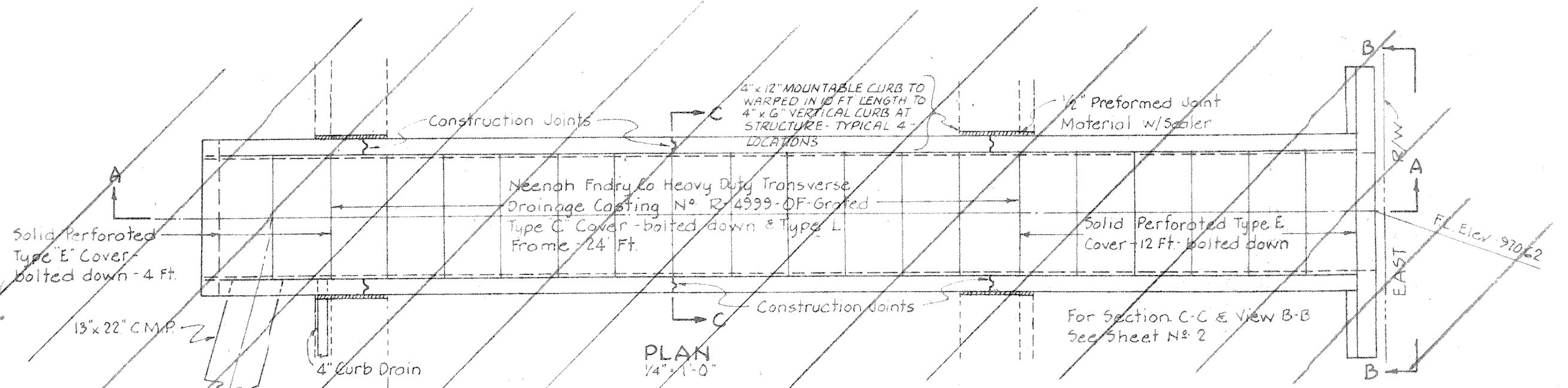
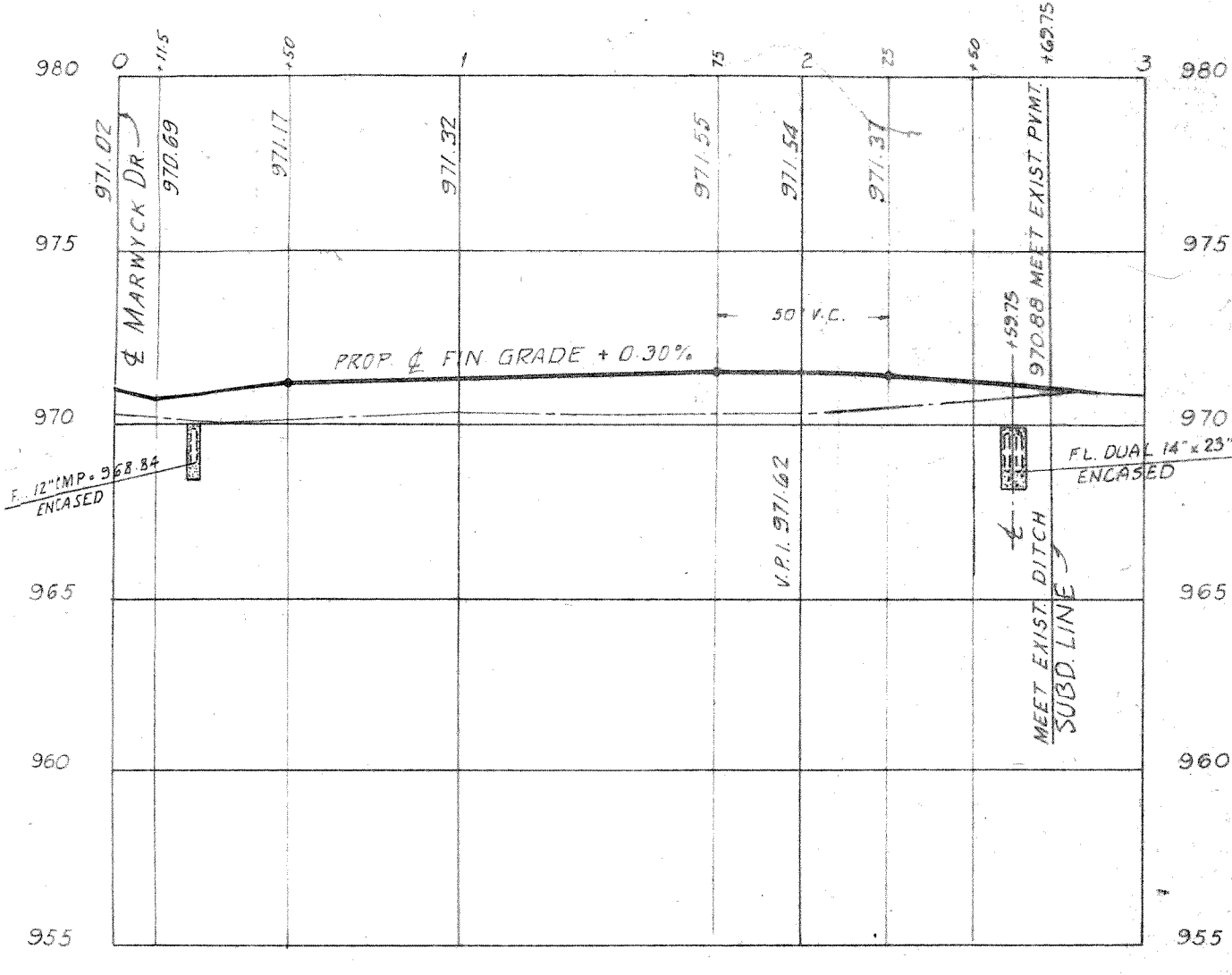
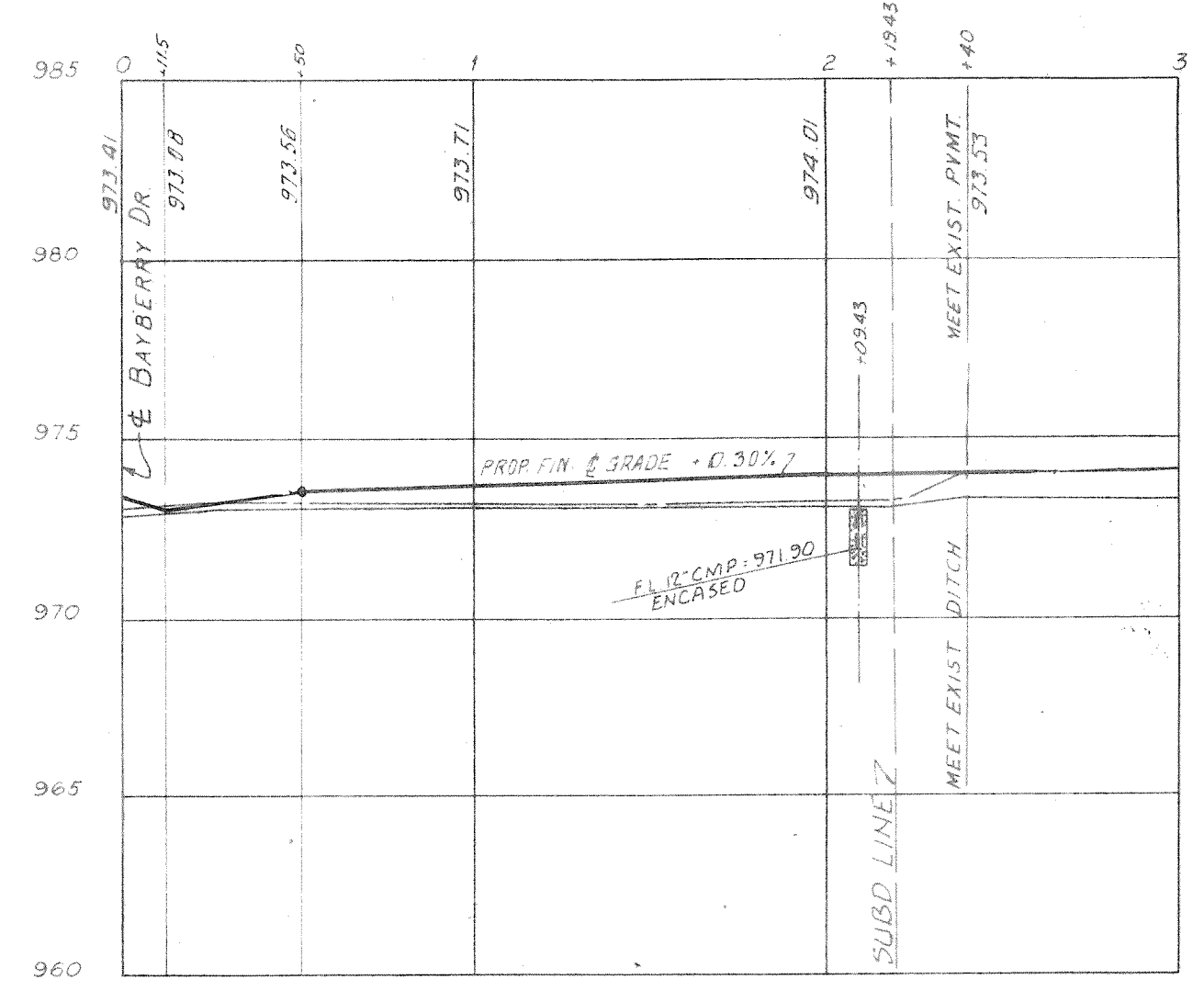
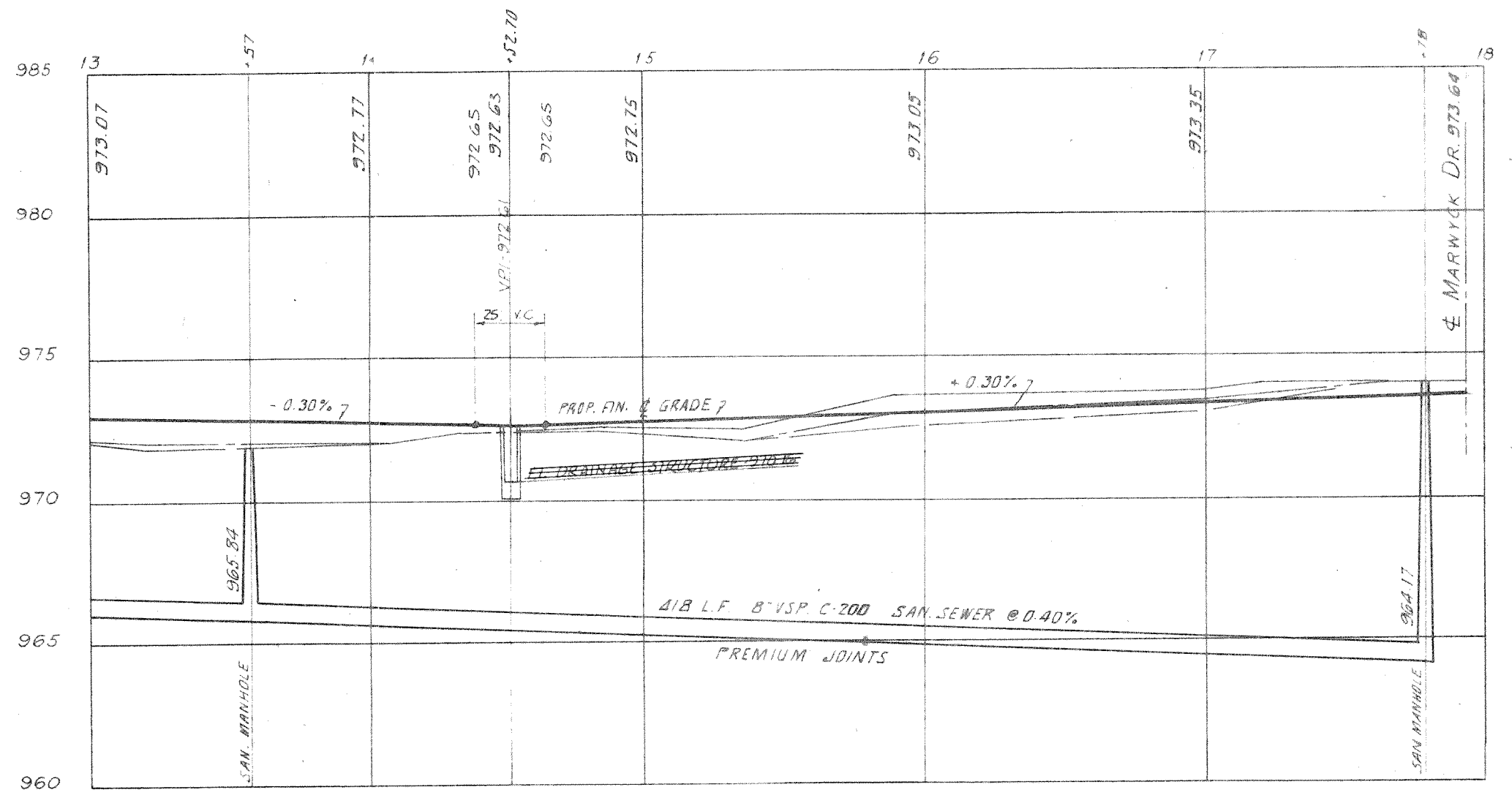
NOTE:
WHERE "L" NAILS ARE CALLED FOR ON PLANS - ADD SECTION SHOWN DASHED



HEADWALL DETAIL
STRAIGHT WALL SHOWN SOLID

LEGEND

- EXIST. @ SURFACE
- EXIST. SURFACE - E. R/W
- EXIST. SURFACE - W. R/W
- PROP. FIN. @ GRADE



For balance of section A-A
See Sheet N° 2

DATE	REVISION	DESCRIPTION
3-5-89	1	STORM SEWER R.R.
4-23-89	2	WATER MAIN R.R.

**SANITARY SEWERS & APPURTENANCES
PAVEMENT & DRAINAGE
WATER MAINS & APPURTENANCES
BRANDYWINE ESTATES**
NORTHFIELD CENTER TWP., — SUMMIT COUNTY, O.

CHARLES E. MCKINNEY & ASSOCIATES
CIVIL ENGINEERS — SURVEYORS

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

SHEET NO. 4 OF 4

