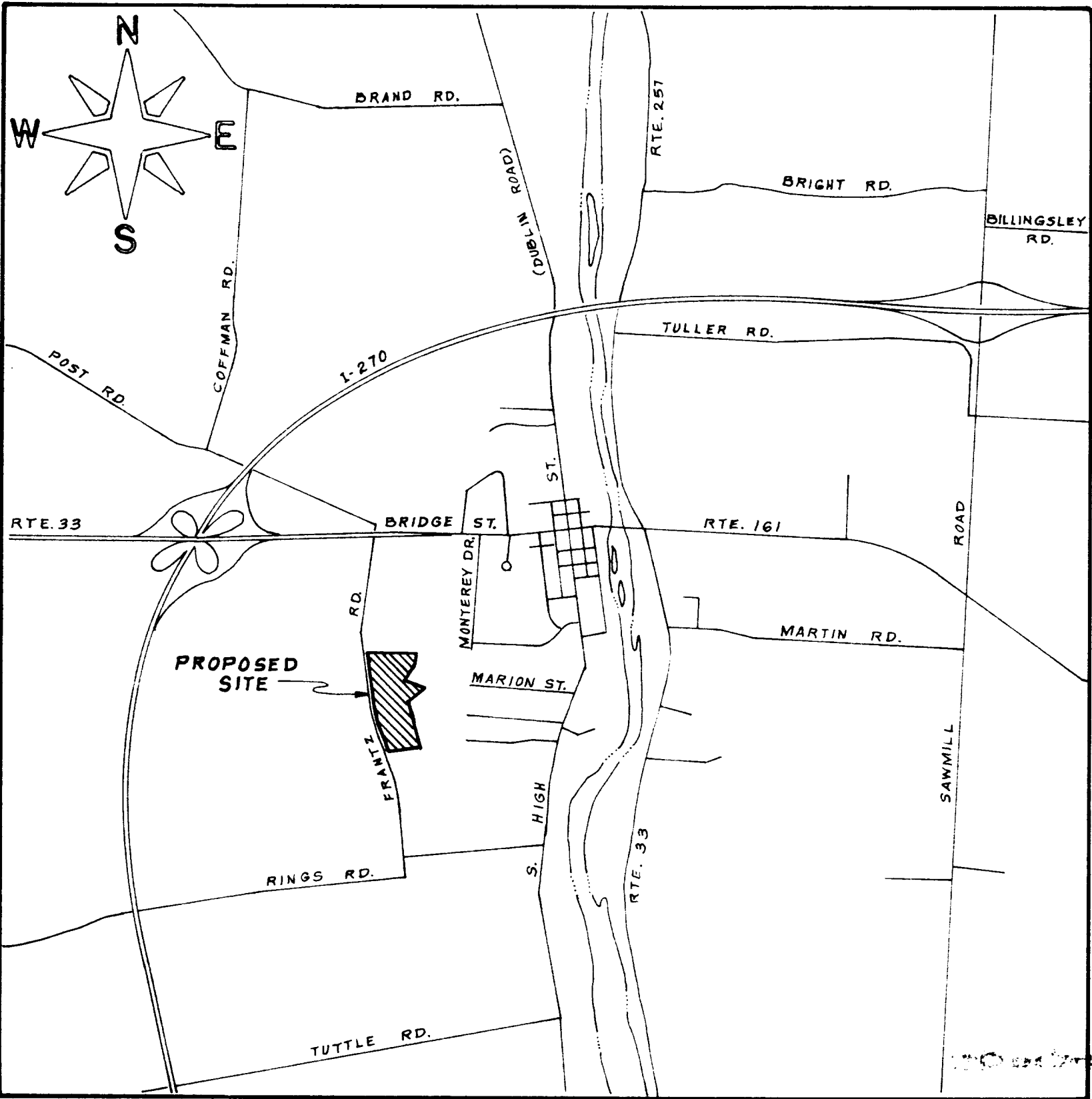


ESTIMATE OF QUANTITIES

ITEM	QUAN.	UNIT	DESCRIPTION
1.	5,820	C.Y.	STREET EXCAVATION INCLUDING EMBANKMENT
2.	273	C.Y.	11 1/2" AGGREGATE BASE O.D.O.T. ITEM 304 (2 COURSES)
3.	1,582	C.Y.	10 1/2" AGGREGATE BASE O.D.O.T. ITEM 304 (2 COURSES)
4.	2,200	GAL.	BITUMINOUS PRIME COAT (0.35 GAL./S.Y.) O.D.O.T. ITEM 408
5.	218	C.Y.	1 1/4" ASPHALT CONCRETE O.D.O.T. ITEM 402
6.	218	C.Y.	1 1/4" ASPHALT CONCRETE O.D.O.T. ITEM 404
7.	4,470	L.F.	STD. CURB & GUTTER
8.	4,470	L.F.	4" EXTRA-STRENGTH CLAY PIPE UNDERDRAIN
9.		S.F.	4" CONCRETE SIDEWALK
10.	140	L.F.	18" REINFORCED CONCRETE PIPE C-76, CL. III
11.	559	L.F.	15" REINFORCED CONCRETE PIPE C-76, CL. IV
12.	485	L.F.	12" REINFORCED CONCRETE PIPE C-76, CL. IV
13.	4	EA.	STANDARD CURB INLET, TYPE A
14.	7	EA.	STANDARD CURB INLET, TYPE B
15.	2	EA.	STANDARD MANHOLE, TYPE B
16.	10.0	C.Y.	DUMPED ROCK TYPE B
16A	4	EA.	STANDARD END WALL
16B	610	L.F.	TEMPORARY DRAINAGE DITCH
17.	2,600	L.F.	12" DUCTILE IRON WATERLINE CL. 4 OR CL. 54
18.	571	L.F.	8" DUCTILE IRON WATERLINE CL. 3 OR CL. 53
19.	737	L.F.	6" DUCTILE IRON WATERLINE CL. 3 OR CL. 53
20.	690	L.F.	3" DUCTILE IRON WATERLINE CL. 3 OR CL. 53
21.	3	EA.	12" GATE VALVE & BOX
22.	2	EA.	8" GATE VALVE & BOX
23.	2	EA.	6" GATE VALVE & BOX
24.	13	EA.	FIRE HYDRANT, TYPE B (MOD.)
25.	591	L.F.	1" TYPE K COPPER WATER SERVICE
26.	35	EA.	1" CORPORATION STOP
27.	35	EA.	1" CURB STOP & BOX

WATERFORD VILLAGE
PHASE 8
VILLAGE OF DUBLIN, OHIO
STREET, STORM, & WATERLINE
IMPROVEMENTS



LOCATION MAP
SCALE: 1" = 2,000'

PLANS PREPARED BY


WOLFE ENGINEERING CO.
4900 Reed Rd., Columbus, Ohio 43220
Phone 614/459-1211

Charles R. Wolfe 8-31-78
REGISTERED ENGINEER NO. 35196 DATE

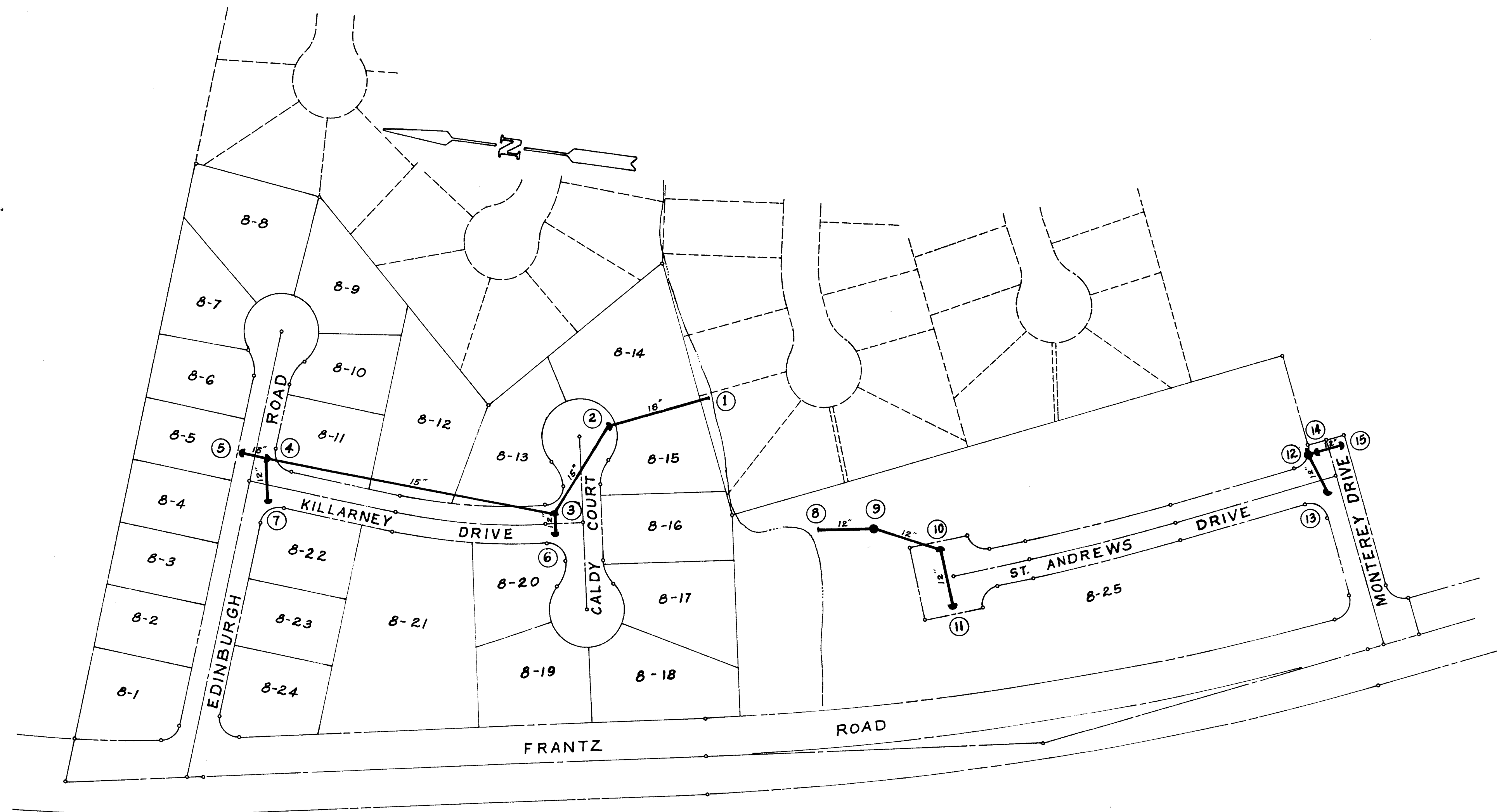
VILLAGE OF DUBLIN, OHIO

VILLAGE ENGINEER _____ DATE _____
VILLAGE ADMINISTRATOR _____ DATE _____
CHAIRMAN, PLANNING COMMISSION _____ DATE _____
VILLAGE MAYOR _____ DATE _____

CITY OF COLUMBUS, OHIO

SUPERINTENDENT, DIVISION OF WATER _____ DATE _____
DIRECTOR OF PUBLIC SERVICE _____ DATE _____

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS
GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE
AGREEMENT WITH THE VILLAGE OF DUBLIN, DATED JAN. 15, 1973.



**INDEX MAP
STORM SEWER IMPROVEMENTS**
SCALE: 1"=100'

GENERAL NOTES

ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO APPLICABLE PROVISIONS OF THE DUBLIN VILLAGE STANDARD CONSTRUCTION REGULATIONS.

THE CONTRACTOR SHALL INVESTIGATE AND LOCATE ALL UTILITIES PRIOR TO ANY CONSTRUCTION.

THE PROPOSED WATERLINE AND SANITARY SEWER CONSTRUCTION IS TO BE COORDINATED IN STREET IMPROVEMENT AREAS.

WHEREVER THE STORM SEWER OR WATERLINE IS TO BE CONSTRUCTED WITHIN AN EMBANKMENT SECTION AND THE TOP OF PIPE IS LESS THAN 2.5 FEET BELOW THE EXISTING SURFACE, THE EMBANKMENT SHALL BE CONSTRUCTED (MINIMUM COVER 2.5 FEET) PRIOR TO PIPELINE CONSTRUCTION.

AT ALL POINTS OF CROSSING WATERLINES OR SEWERS, THE BACKFILL SHALL BE OF GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE.

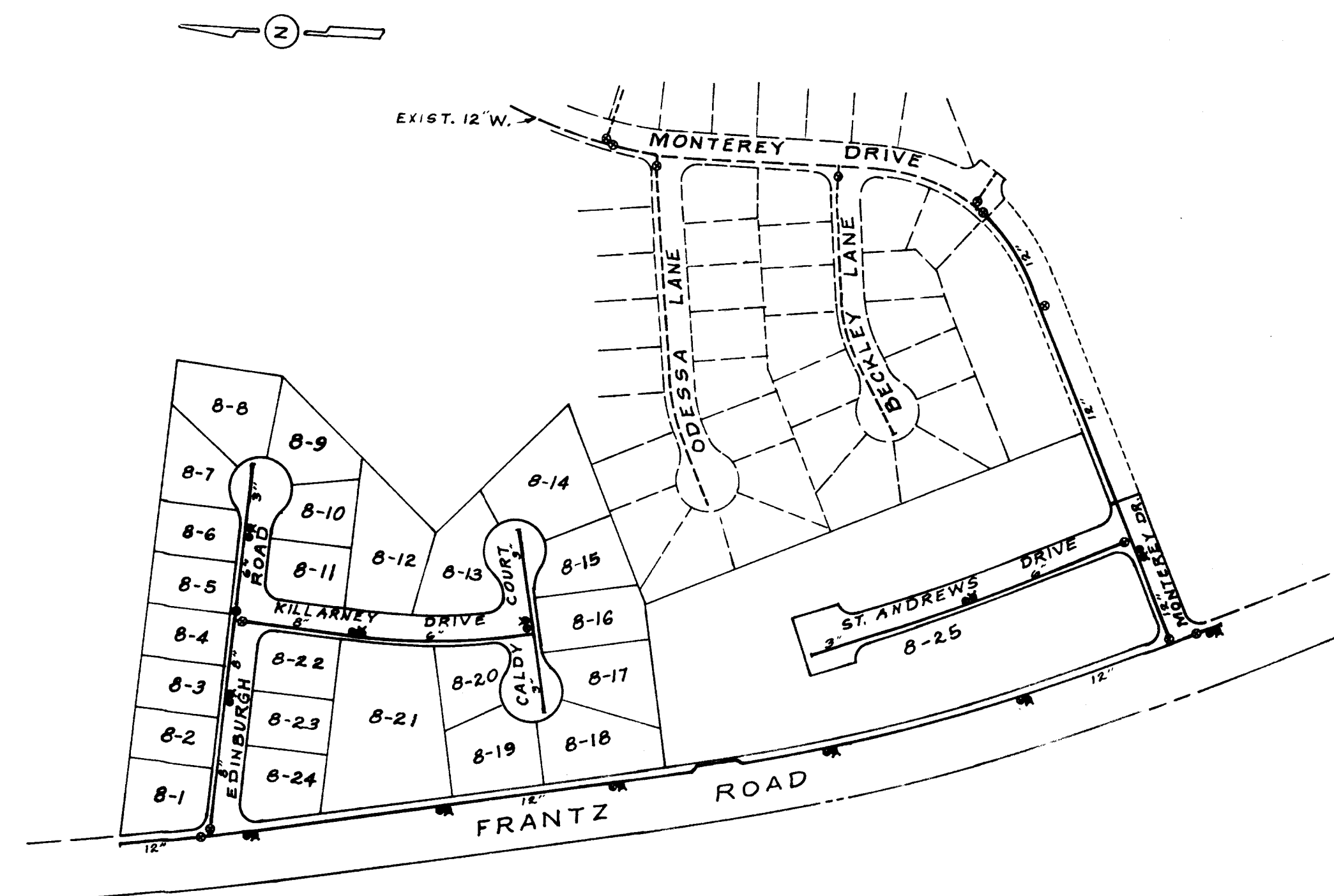
IN ALL CONFLICTS IN GRADE BETWEEN WATERLINES AND STORM SEWERS, THE WATERLINES SHALL BE LOWERED DURING CONSTRUCTION.

BLASTING OPERATIONS FOR ROCK EXCAVATION SHALL CONFORM TO ITEM 903 OF THE CITY OF COLUMBUS SPECIFICATIONS DATED 1978.

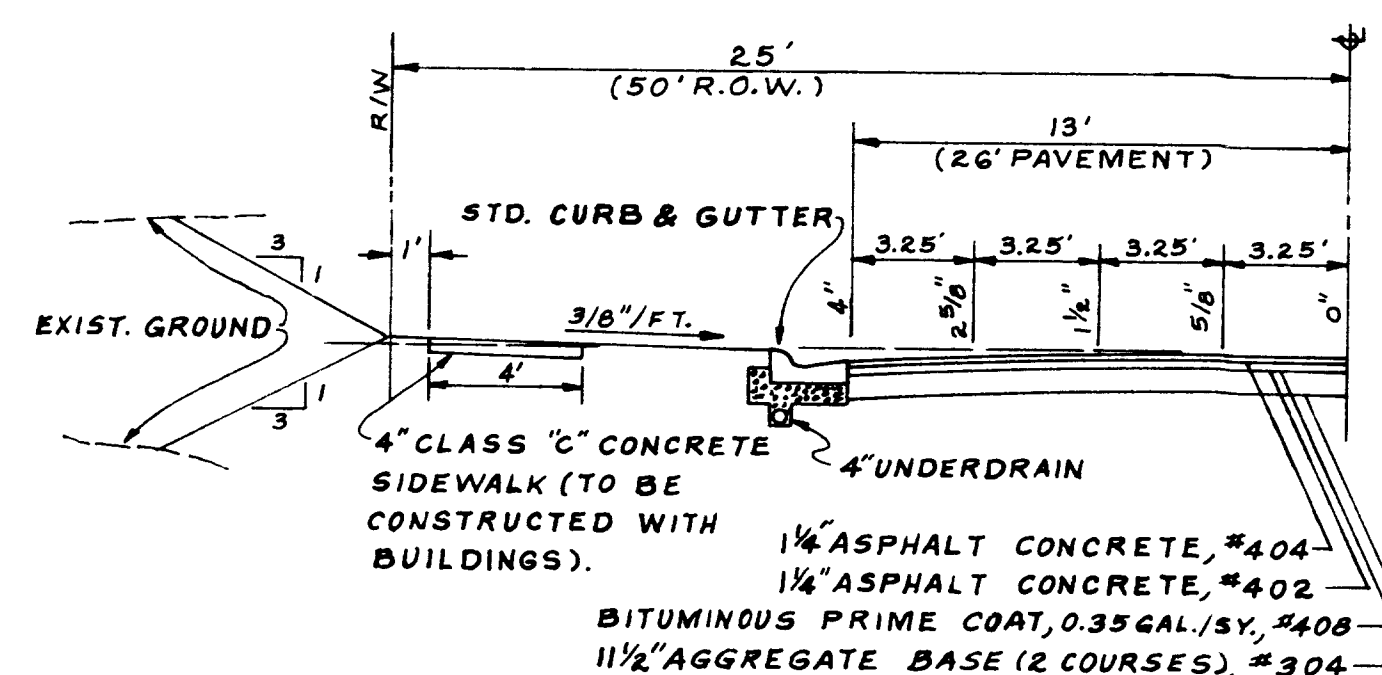
THE STANDARD VILLAGE OF DUBLIN CONSTRUCTION REGULATIONS DATED MAY 3, 1976 AND ANY SUPPLEMENTS THERETO SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN. IT IS THE INTENT OF THESE REGULATIONS TO PROVIDE FOR CONSTRUCTION METHODS AND MATERIALS EQUAL TO OR EXCEEDING THE REQUIREMENTS OF THE 1978 CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE CITY OF COLUMBUS, OHIO.

BENCH MARK

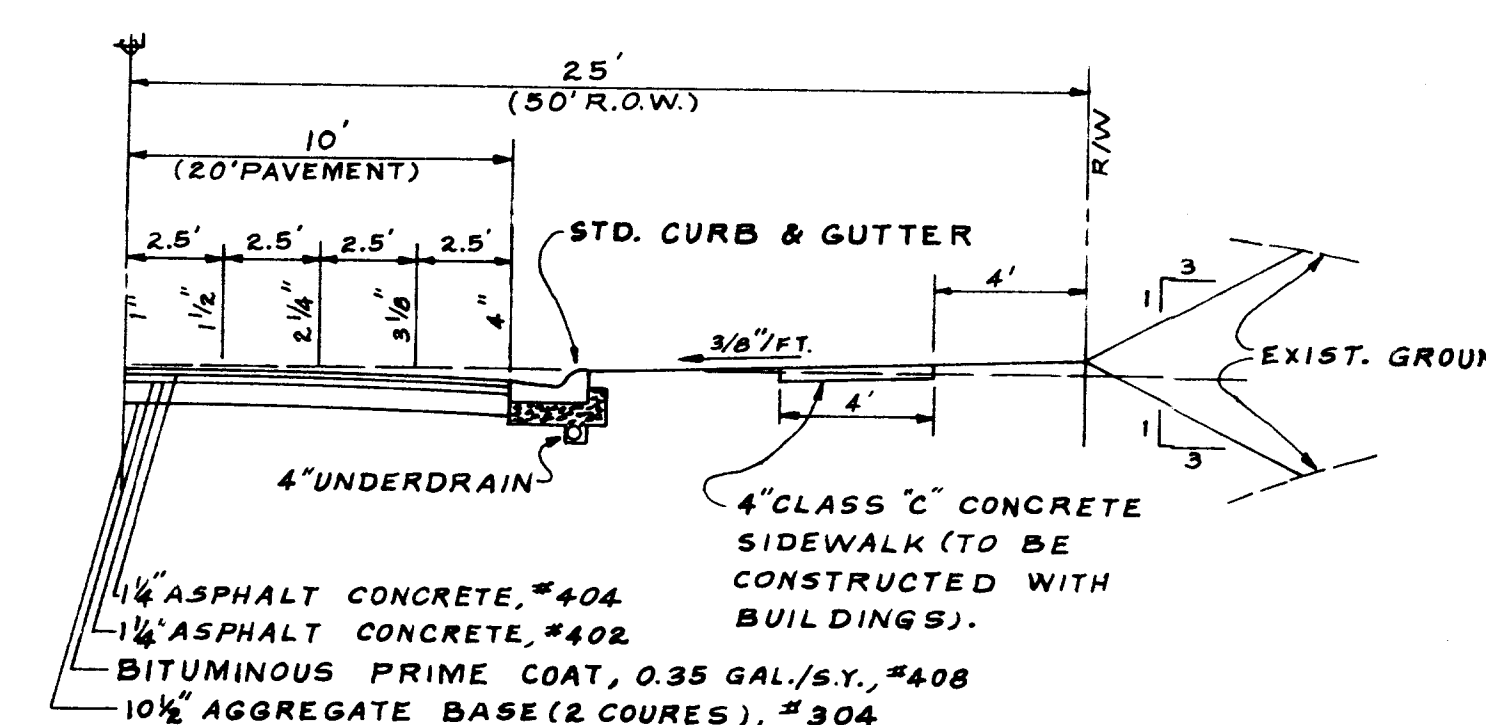
COUNTY SURVEY PLATE, S.E. HEADWALL
BRIDGE ON FRANTZ RD. AT COSGRAY
CREEK - 865.47



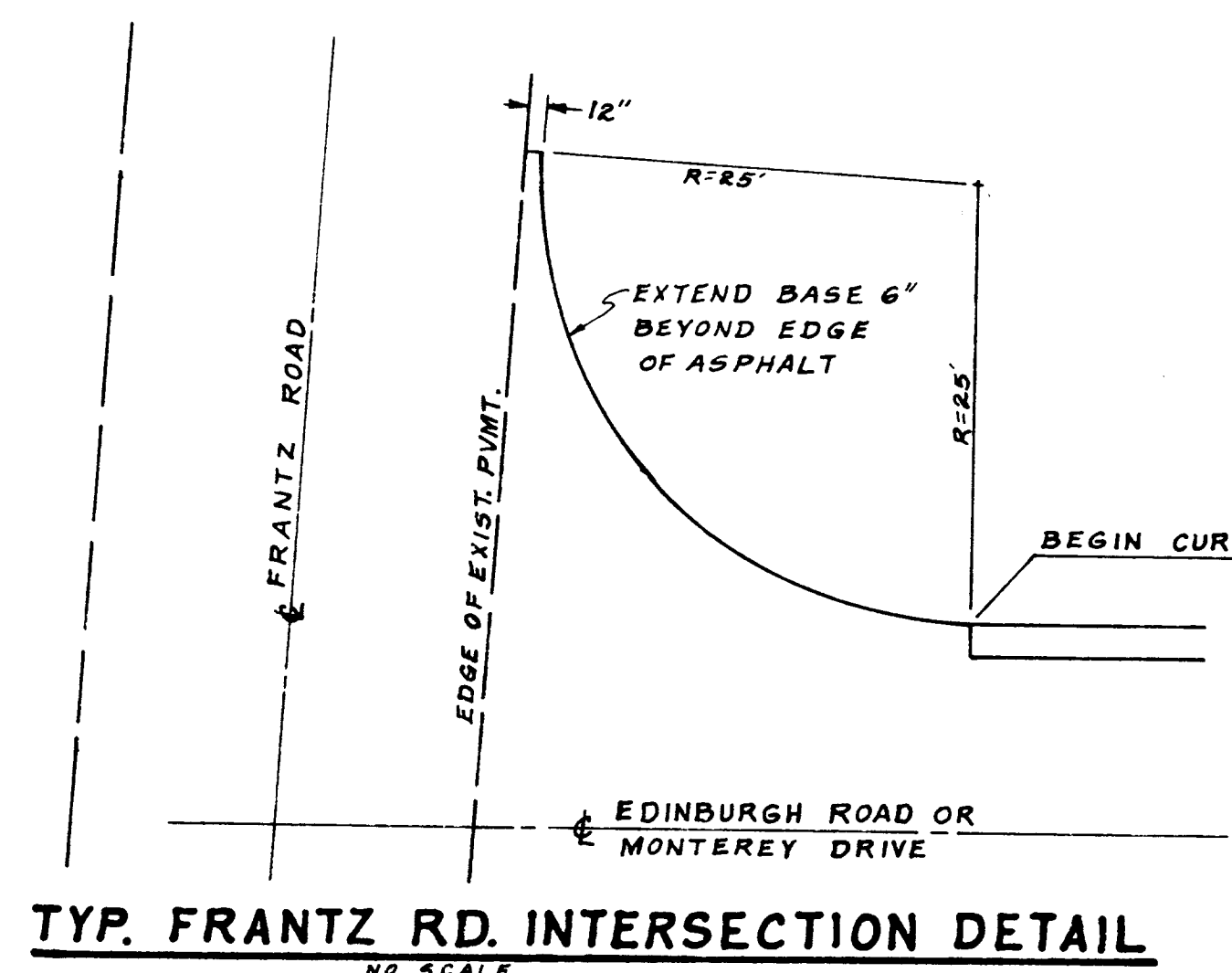
**INDEX MAP
WATERLINE IMPROVEMENTS**
SCALE: 1"=200'



**TYPICAL HALF-SECTION
30' BACK TO BACK CURB
MONTEREY DRIVE**
NO SCALE



**TYPICAL HALF-SECTION
24' BACK TO BACK CURB
EDINBURGH ROAD
KILLARNEY DRIVE
CALDY COURT
ST. ANDREWS DRIVE**
NO SCALE



TYP. FRANTZ RD. INTERSECTION DETAIL
NO SCALE

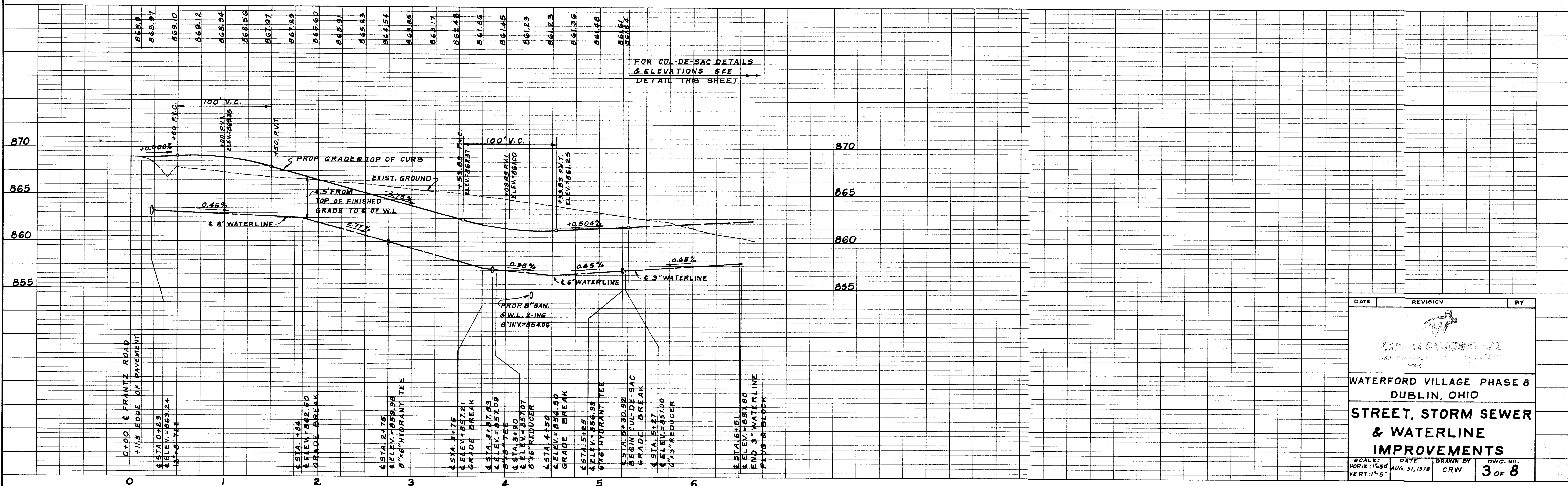
DATE	REVISION	BY
WATERFORD VILLAGE PHASE 8 DUBLIN, OHIO		
INDEX MAPS OF IMPROVEMENTS		
SCALE HORIZ. 1"=50' VERT. 1"=8'	DATE AUG. 31, 1978	DRAWN BY CRW
		DWG. NO. 2 OF 8

PROFILE NOTE BOOK No. _____	SURVEYED _____ PLOTTED _____ GRADES CHECKED _____ B. M.'s NOTED _____ STRUCTURE NOTATIONS CHECKED _____	BY _____ DATE _____
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Diagram illustrating a circular vertical curve with the following data points and elevations:

- STA. 5+30.92, T.C. ELEV.=861.64, GRADE BREAK
- STA. 5+32.96, T.C. ELEV.=861.90
- STA. 6+11.87, T.C. ELEV.=862.05
- STA. 6+14.87, T.C. ELEV.=862.05
- STA. 6+13.29, T.C. ELEV.=862.20
- STA. 6+74.71, T.C. ELEV.=862.36
- STA. 6+13.29, T.C. ELEV.=862.20
- STA. 5+30.92, T.C. ELEV.=861.64, GRADE BREAK

The diagram also shows a 0.70% grade, a 48°35'25" angle, and various other angles and elevations.



* TWO 1" SERVICES SHALL BE INSTALLED
WITHIN ONE FOOT OF END OF MAIN, AND
A THIRD 1" SERVICE SHALL BE INSTALLED
WITHIN TWO FEET OF END OF MAIN.

CUL-DE-SAC DETAIL

SCALE: 1" = 30'

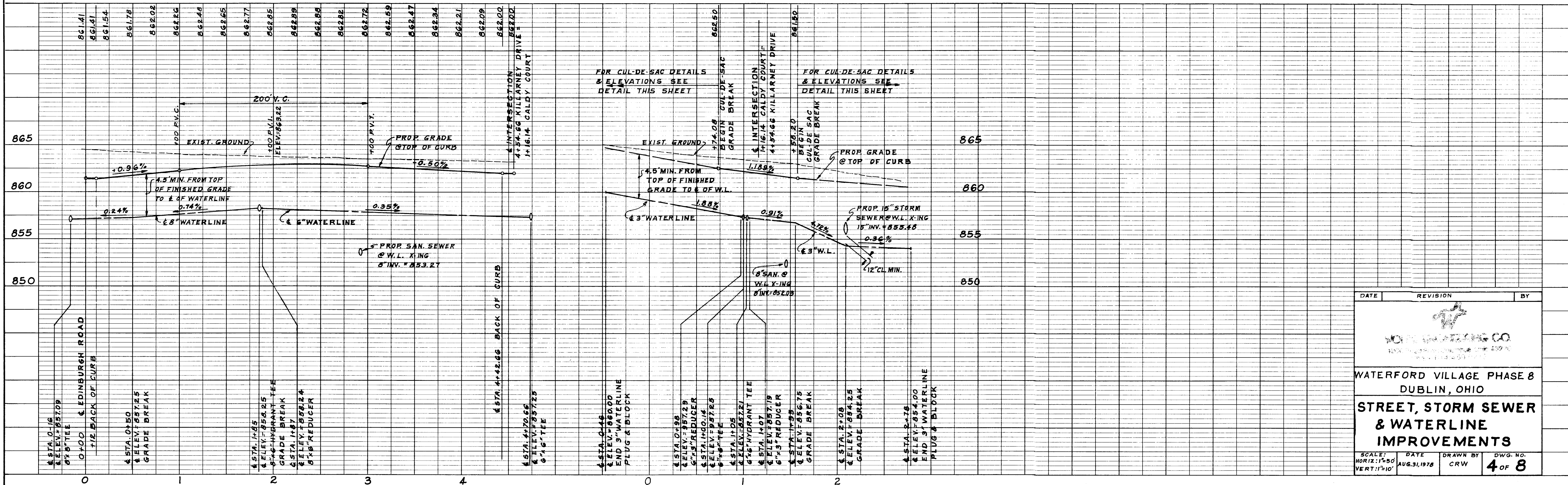
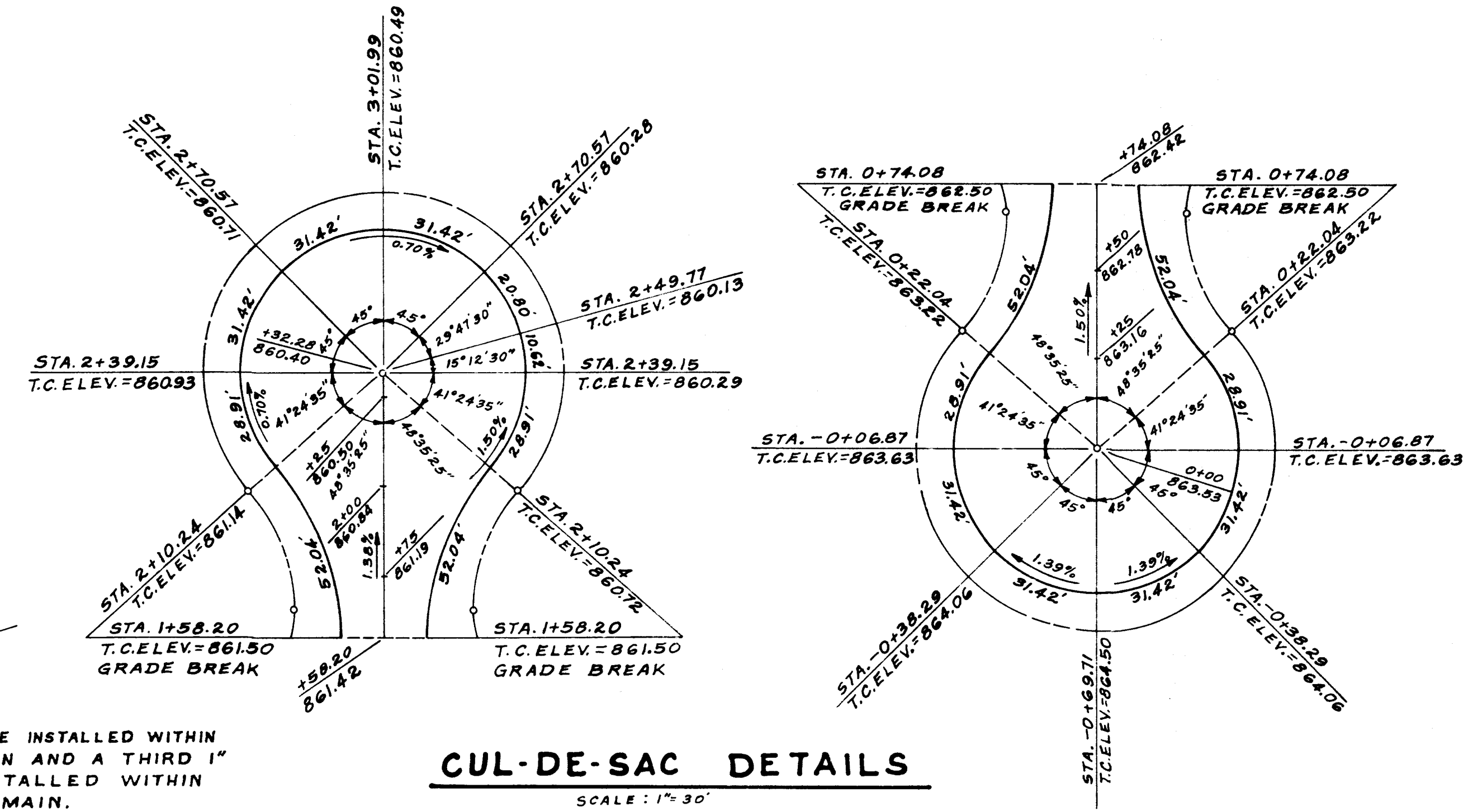
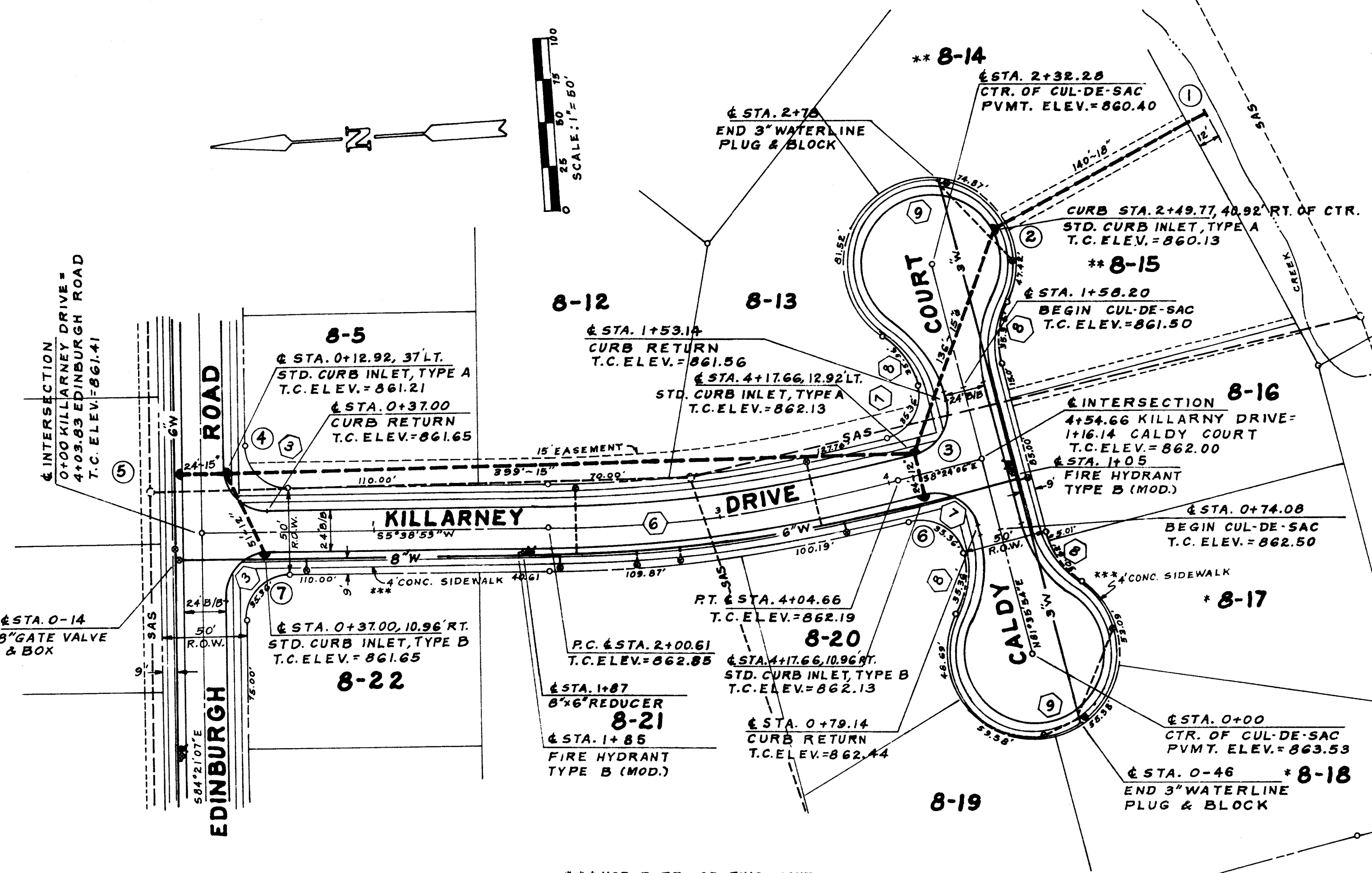
PLAN	SURVISED	DATE
	NOTED	BY
	ALIGNED	CHECKED
	NO. OF WAYS CHECKED	

PROFILE	SURVISED	DATE
	NOTED	BY
	GRADE CHECKED	
	STRUCTURE INDICATIONS CHECKED	

CURVE DATA							
CURVE NO.	A	L	T	R	CH.	CH. BEARING	LOCATION
3	90°	39.27'	25.00'	25.00'	35.36'		BACK OF CURB
6	14°02'59"	204.05'	102.54'	832.12'	203.54'	S 1°22'36"E	"
7	90°	39.27'	25.00'	25.00'	35.36'		BACK OF CURB
8	41°24'35"	52.04'	27.21'	72.00'	50.91'		"
9	262°49'10"	183.48'	45.36'	40.00'	60.00'		"

** TWO 1" SERVICES SHALL BE INSTALLED WITHIN ONE FOOT OF END OF MAIN.

** TWO 1" SERVICES SHALL BE INSTALLED WITHIN ONE FOOT OF END OF MAIN AND A THIRD 1" SERVICE SHALL BE INSTALLED WITHIN TWO FEET OF END OF MAIN.

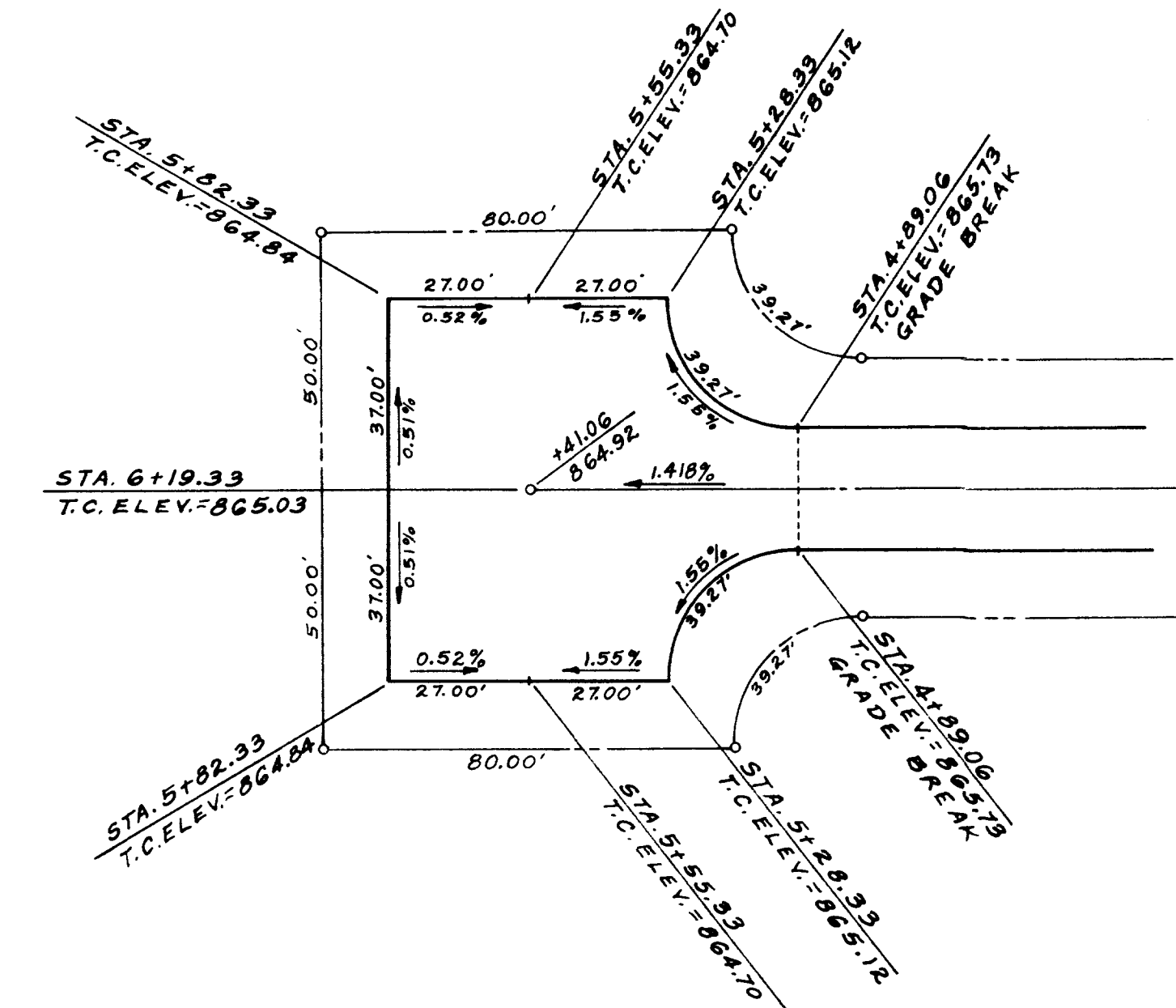
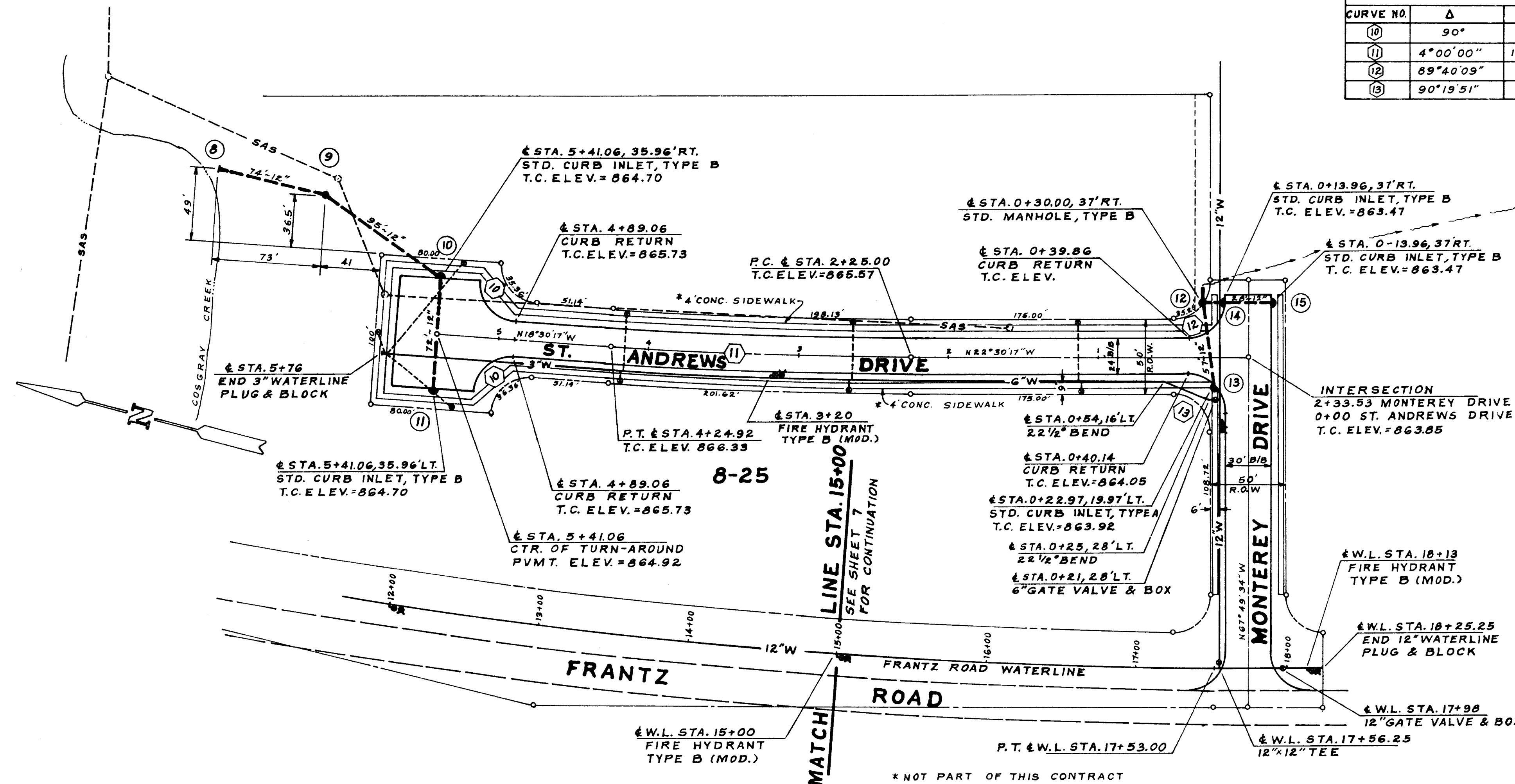


DATE	REVISION	BY
WATERFORD VILLAGE PHASE 8 DUBLIN, OHIO		
STREET, STORM SEWER & WATERLINE IMPROVEMENTS		
SCALE: HORIZ: 1"=50' VERT: 1"=10'	DATE AUG. 31, 1978	DRAWN BY CRW
		OWG. NO. 4 OF 8

PLAN	DATE	BY
	NOTED	NOTED
	NOTE BOOK	ALIGNMENT CHECKED
	No.	RT. OF WAY CHECKED

PROFILE	DATE	BY
	NOTED	NOTED
	NOTE BOOK	GRADES CHECKED
	No.	STRUCTURE NOTATIONS CHECKED

CURVE DATA						
CURVE NO.	Δ	L	T	R	CH.	CH. BEARING
10	90°	39.27'	25.00'	25'	35.36'	BACK OF CURB
11	4°00'00"	199.92'	100.00'	2,863.58'	199.88'	N20°30'17"W
12	69°40'09"	39.13'	24.86'	25'	35.25'	BACK OF CURB
13	90°19'51"	39.41'	25.14'	25'	35.46'	BACK OF CURB



TURN-AROUND DETAIL
SCALE: 1" = 30'

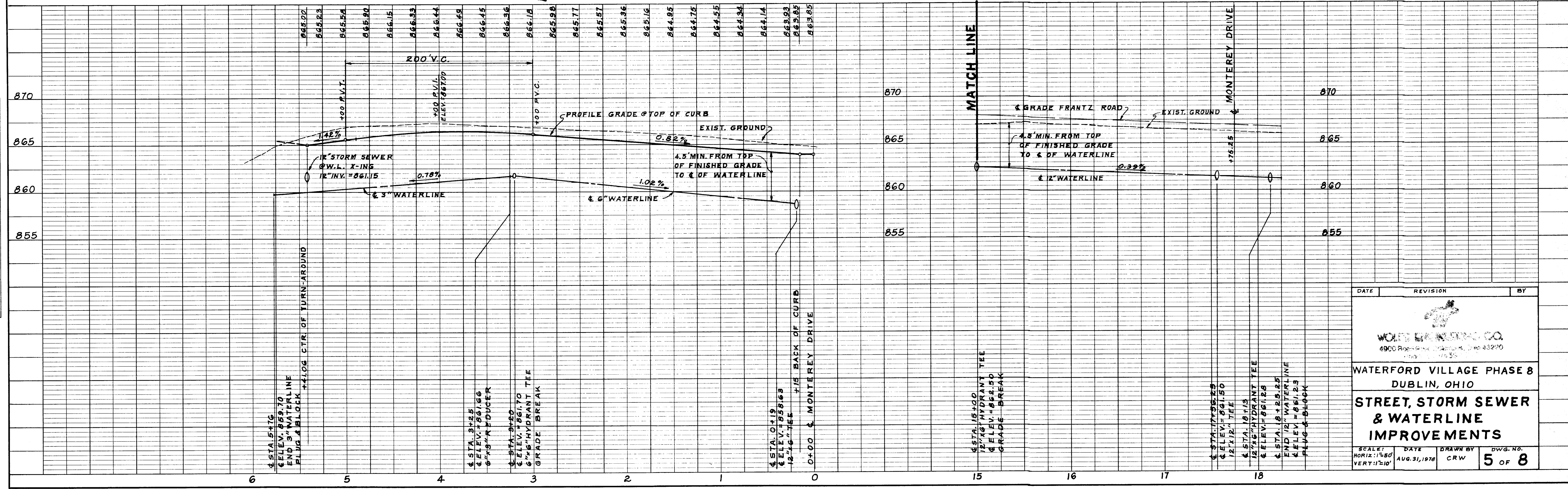
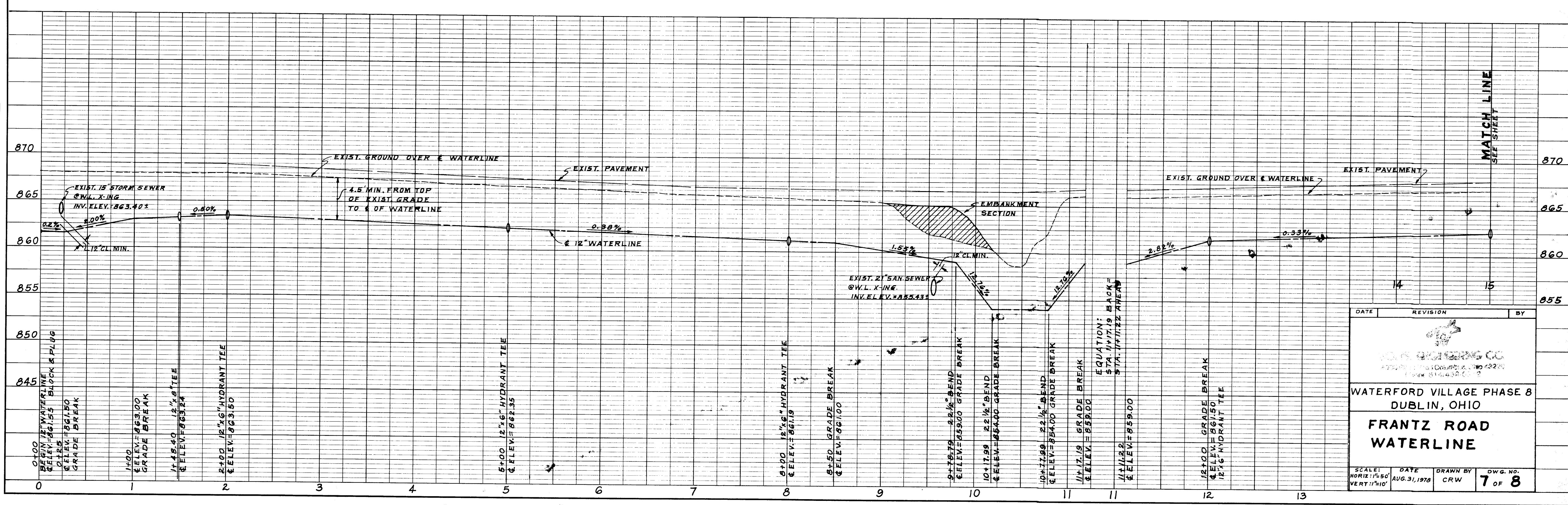
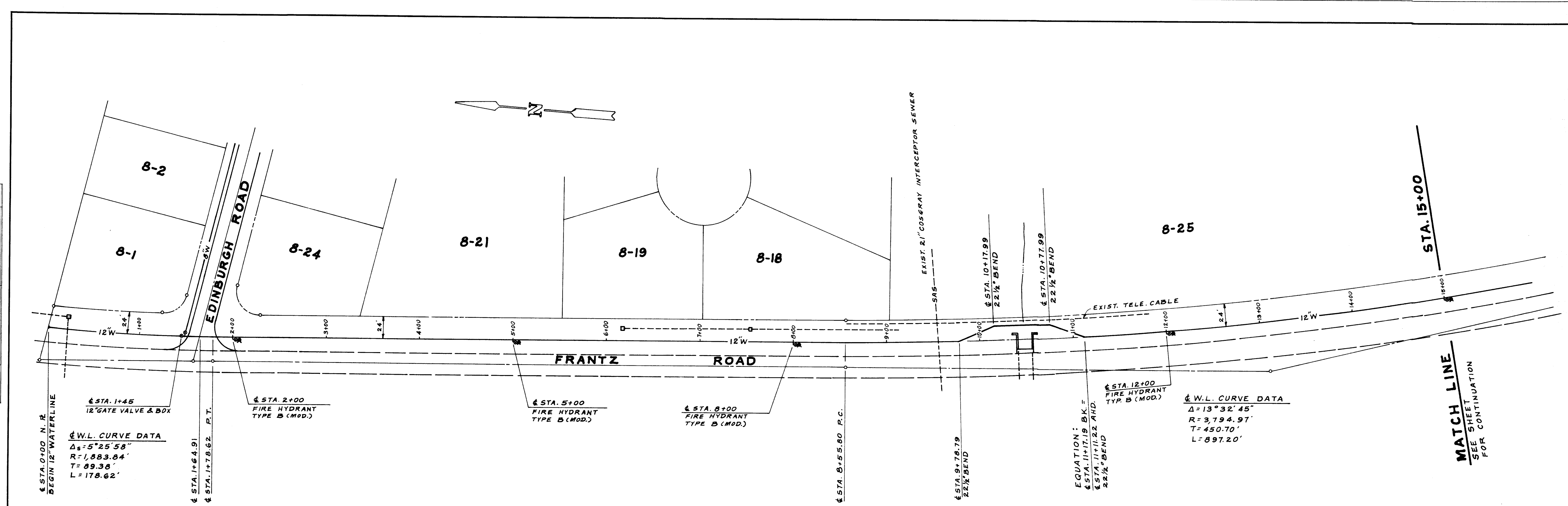


PLATE 1 PLAN-PROFILE B P R STANDARD
EUGENE DIETZEN CO.

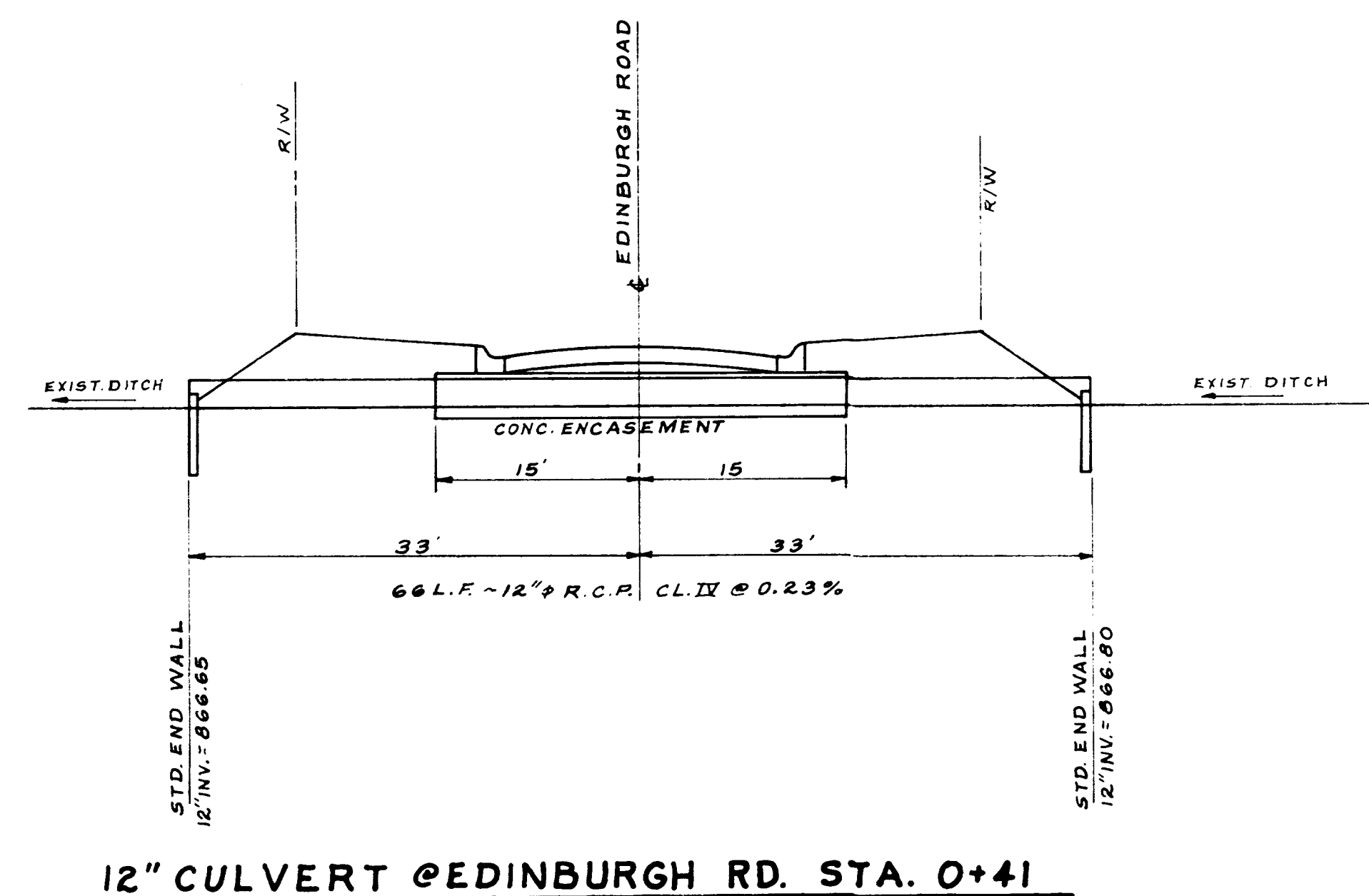
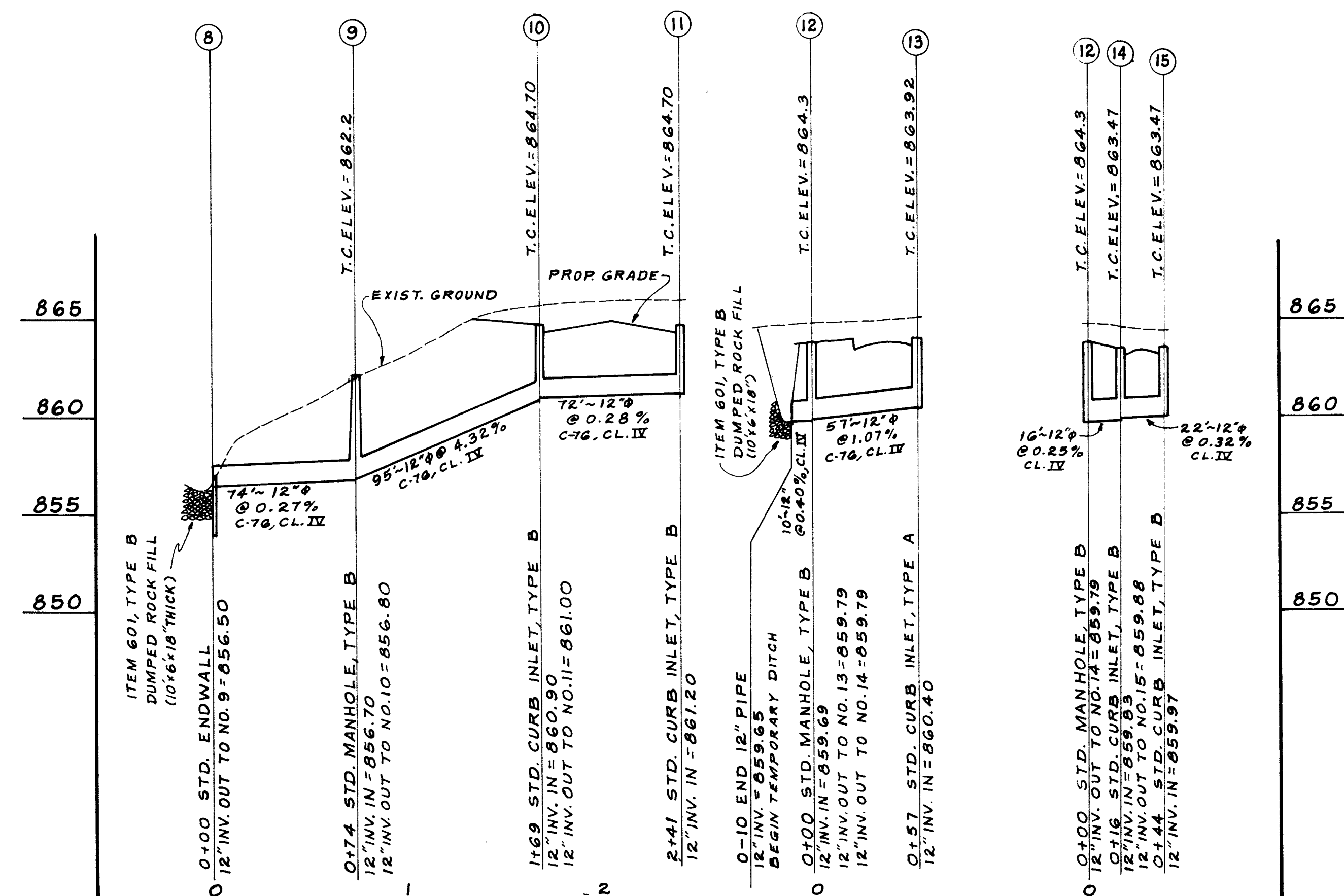
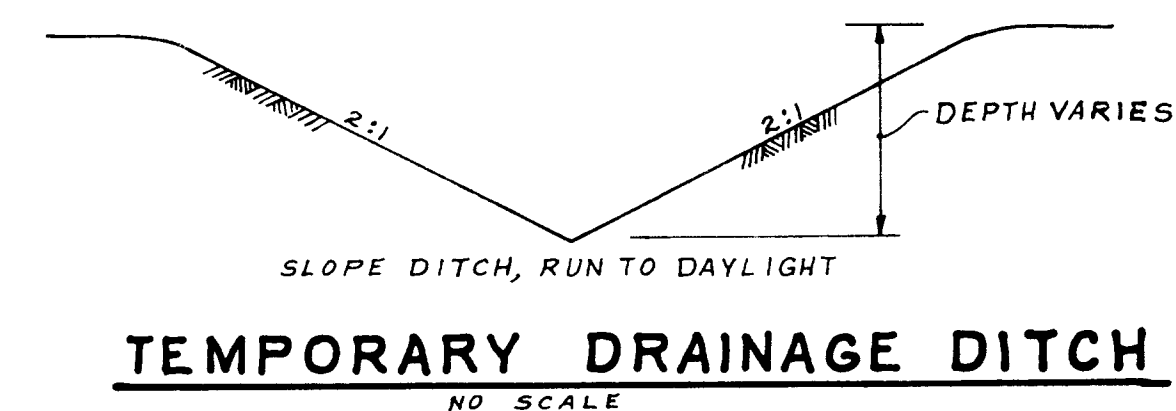
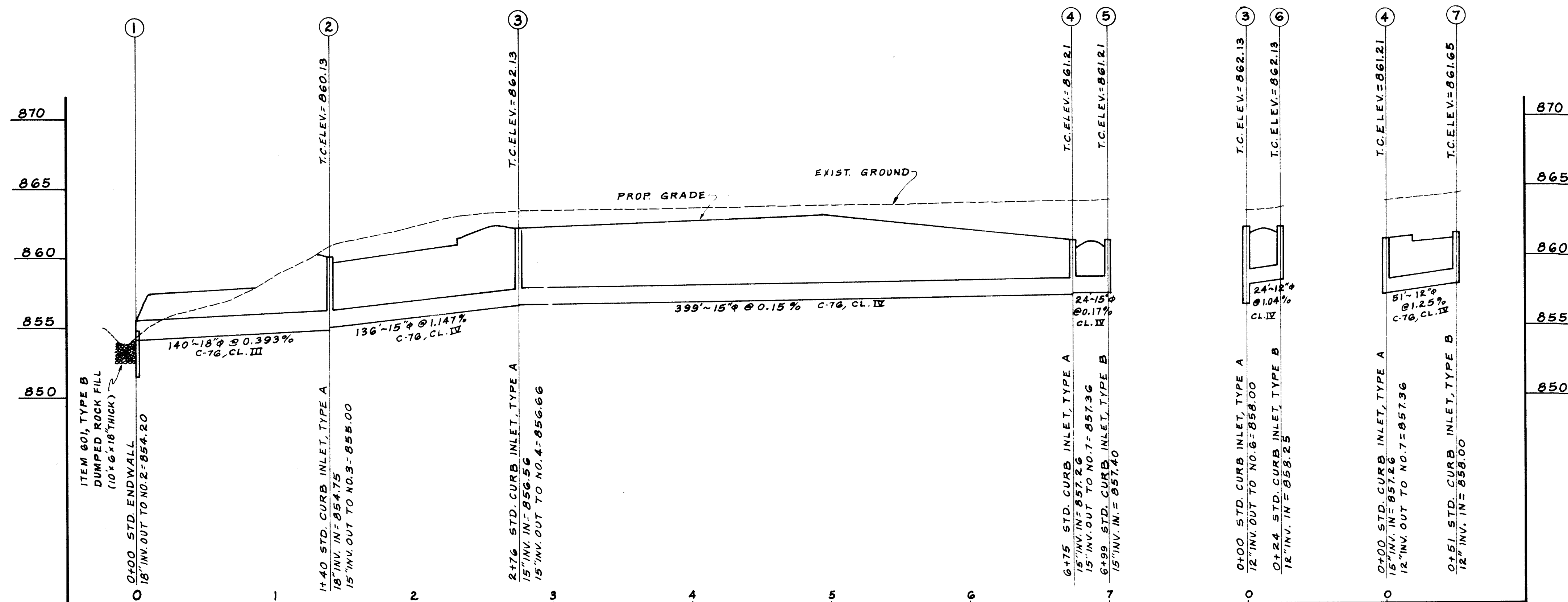
DATE	REVISION	BY
WATERFORD VILLAGE PHASE 8 DUBLIN, OHIO STREET, STORM SEWER & WATERLINE IMPROVEMENTS		
SCALE: HORIZ: 1"=50'	DATE: AUG. 31, 1978	DRAWN BY: CRW
VERT: 1"=10'		DWG. NO. 5 OF 8

PLAN	SURVEYED	DATE
	NOTED	
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	NOTED	
	NOTE BOOK	
	NO.	



DATE	REVISION	BY
WATERFORD VILLAGE PHASE 8		
DUBLIN, OHIO		
FRANTZ ROAD		
WATERLINE		
SCALE: HORIZ: 1"=50' VERT: 1"=10'	DATE AUG. 31, 1978	DRAWN BY CRW
DWG. NO. 7 OF 8		



DATE	REVISION	BY
WATERFORD VILLAGE PHASE B DUBLIN, OHIO		
STORM SEWER PROFILES		
SCALE HORIZ. 1"=50' VERT. 1"=5'	DATE AUG. 31, 1978	DRAWN BY CRW
		DWG. NO. 8 OF 8