



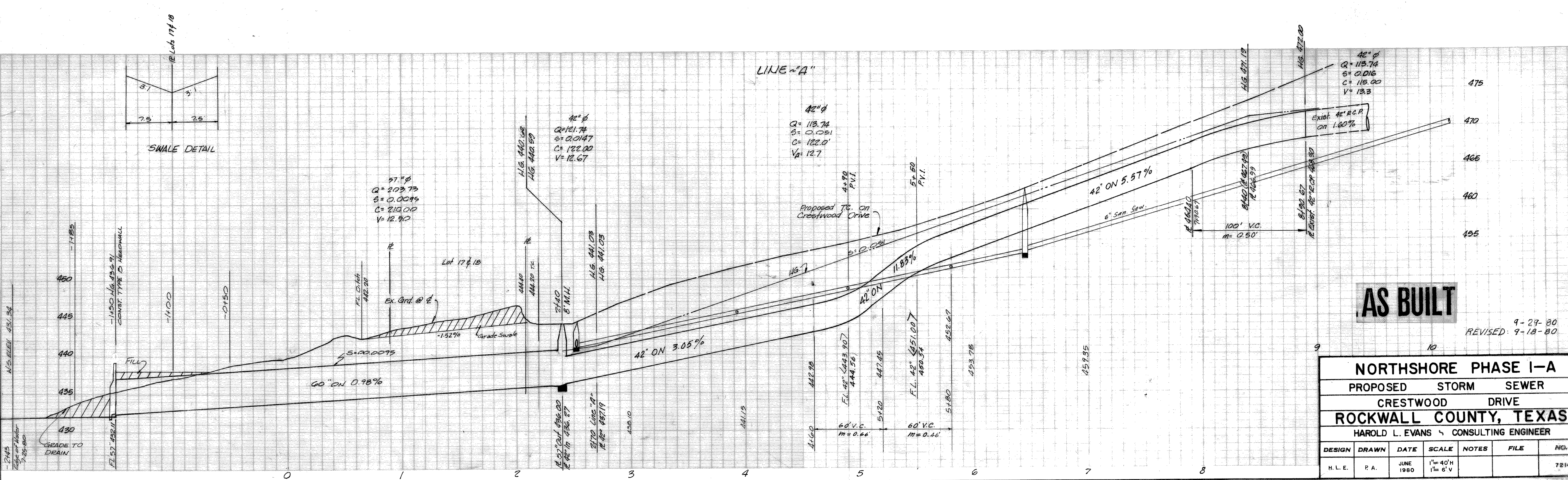
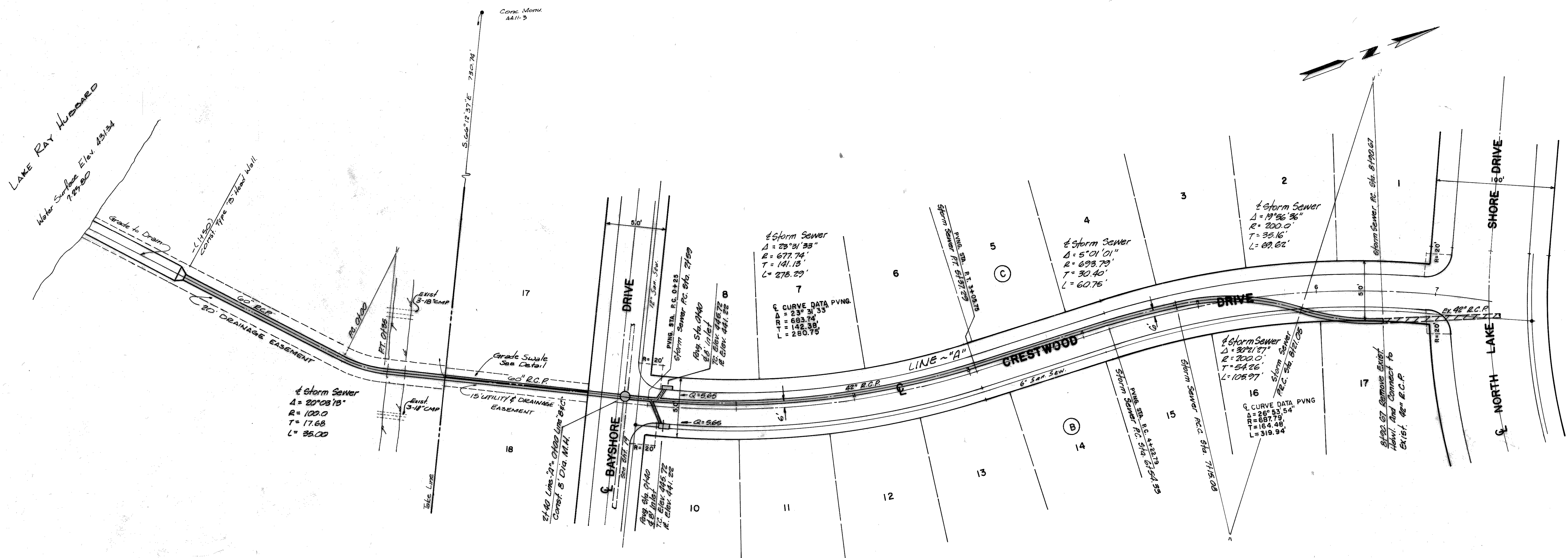
Drainage Area (Desig.)	Area (Acres)	Coefficient	Time of Concentration (minutes)	Intensity (in./hr.)		Runoff (cfs)				Pipe Design (in.)
				5 yr. 25 yr.		Q5		Q25		
				5 yr.	25 yr.	Sum of Q5	Sum of Q25	Sum of Q5	Sum of Q25	
LINE "B"										
"A"	5.30	0.50	10	6.6	9.3	17.49	17.49	24.64	24.64	20.0
"B"	2.56	0.50	10	6.6	9.3	8.45	25.94	11.90	36.54	36.0
"C"	2.56	0.50	10	6.6	9.3	8.79	34.72	12.39	48.92	61.99
"E"								13.07	61.99	
LINE "C"										
"G"	3.60	0.50	10	6.6	9.3	11.88	11.88	16.74	16.74	
"F"	2.02	0.50	10	6.6	9.3	6.66	18.54	9.40	26.14	20.00
"E"	0.78	0.50	10	6.6	9.3	12.57	21.11	3.63	29.77	
"D"	2.43	0.50	10	6.6	9.3	8.02	29.13	11.30	41.07	
"J"	2.41	0.50	10	6.6	9.3	15.90	15.90	22.41	22.41	15.90
"H"	3.39	0.50	10	6.6	9.3	11.19	11.19	15.76	15.76	
"I"	0.62	0.50	10	6.6	9.3	2.05	13.24	2.88	18.64	
LINE "A"										
Existing Pipe										113.74
"D"	2.43	0.50	10	6.6	9.3	8.02	29.13	11.30	41.07	121.75
Line B									61.99	
Line C									20.00	203.73



**AS BUILT**

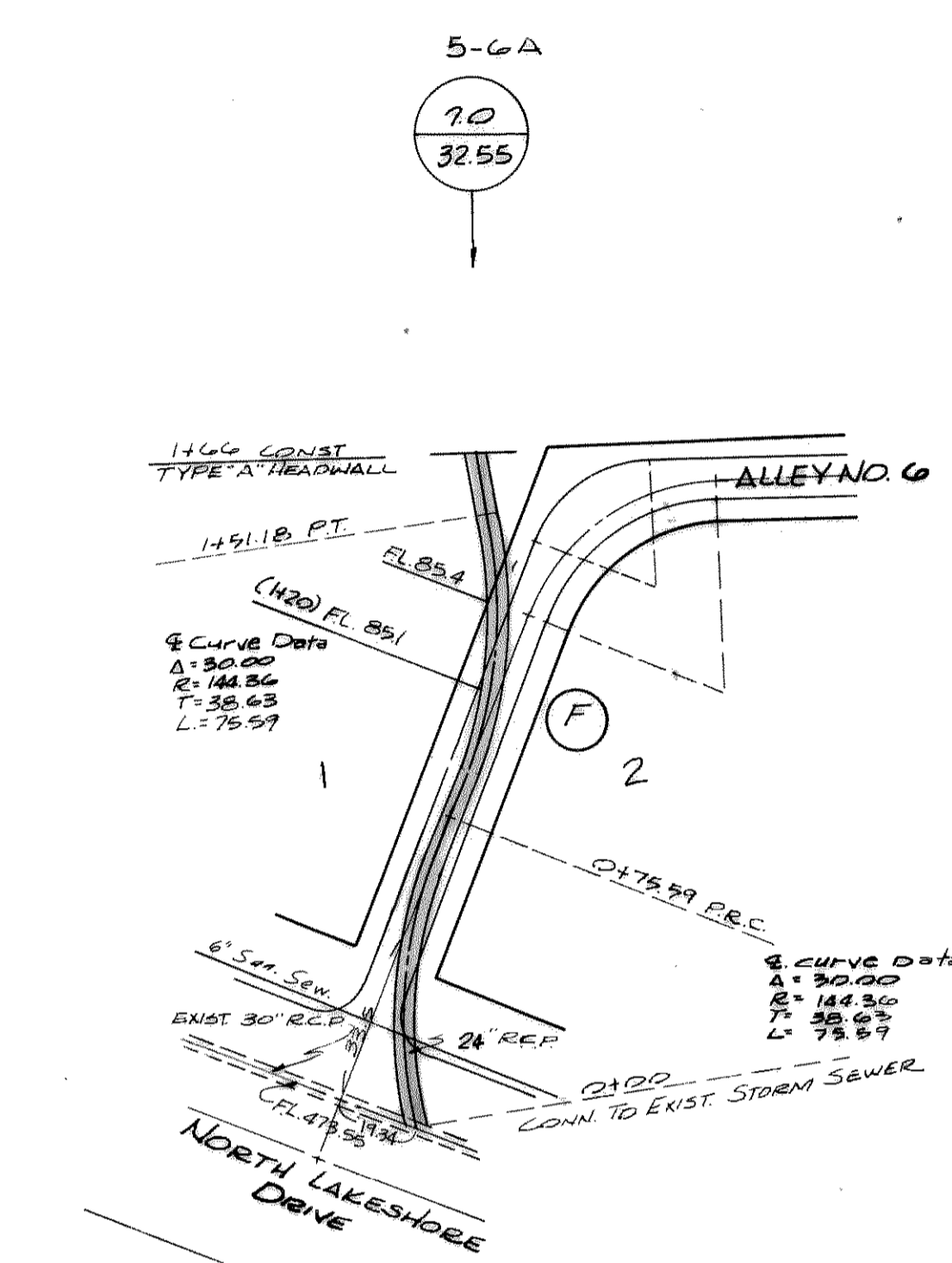
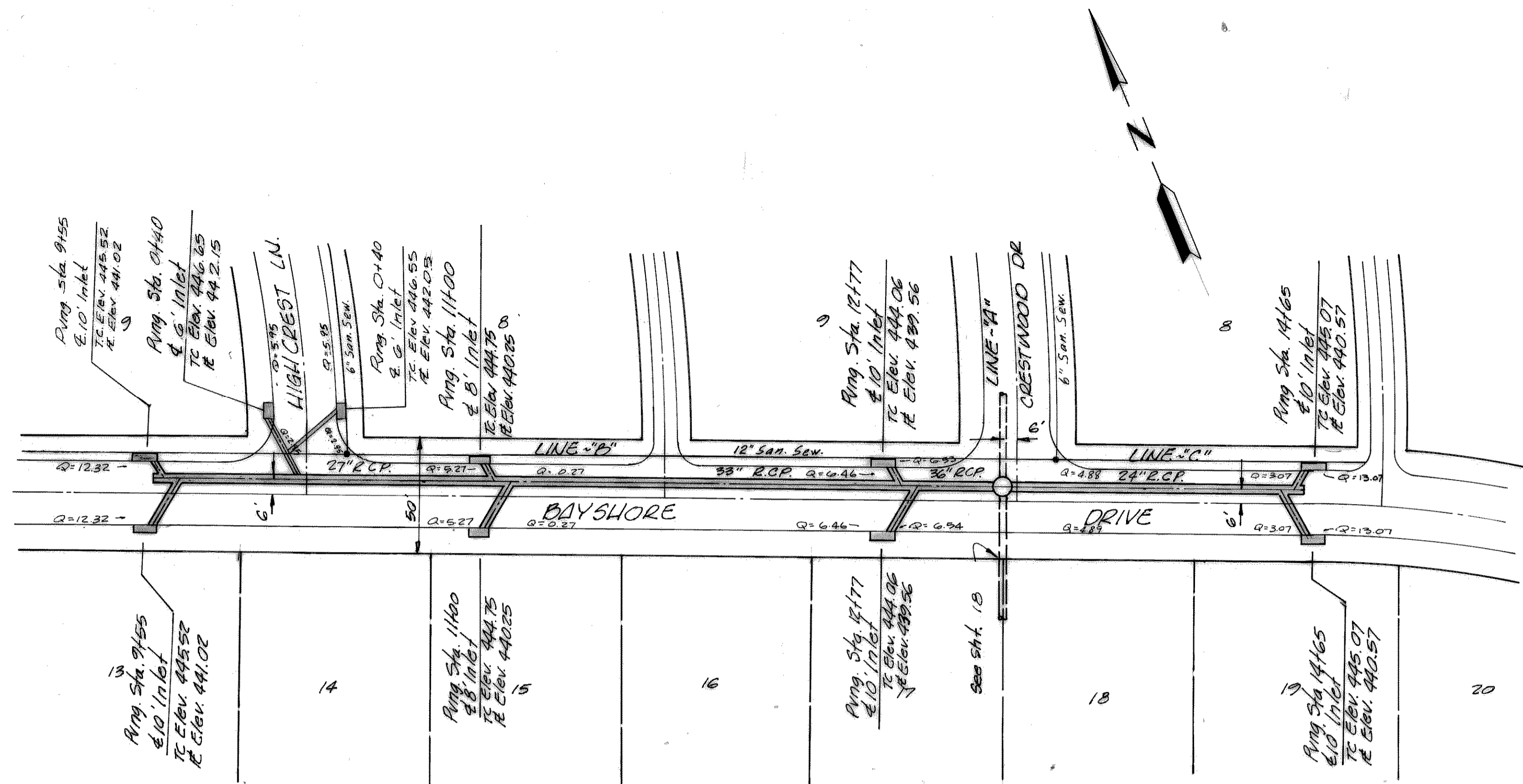
NORTHSHORE PHASE I-A				CITY OF ROCKWALL	
DRAINAGE AREA MAP				ROCKWALL COUNTY TEXAS	
GCW	TLB	1"=100'	6-18-80	HAROLD L. EVANS CONSULTING ENGINEER	
				DALLAS, TEXAS 328-8133	



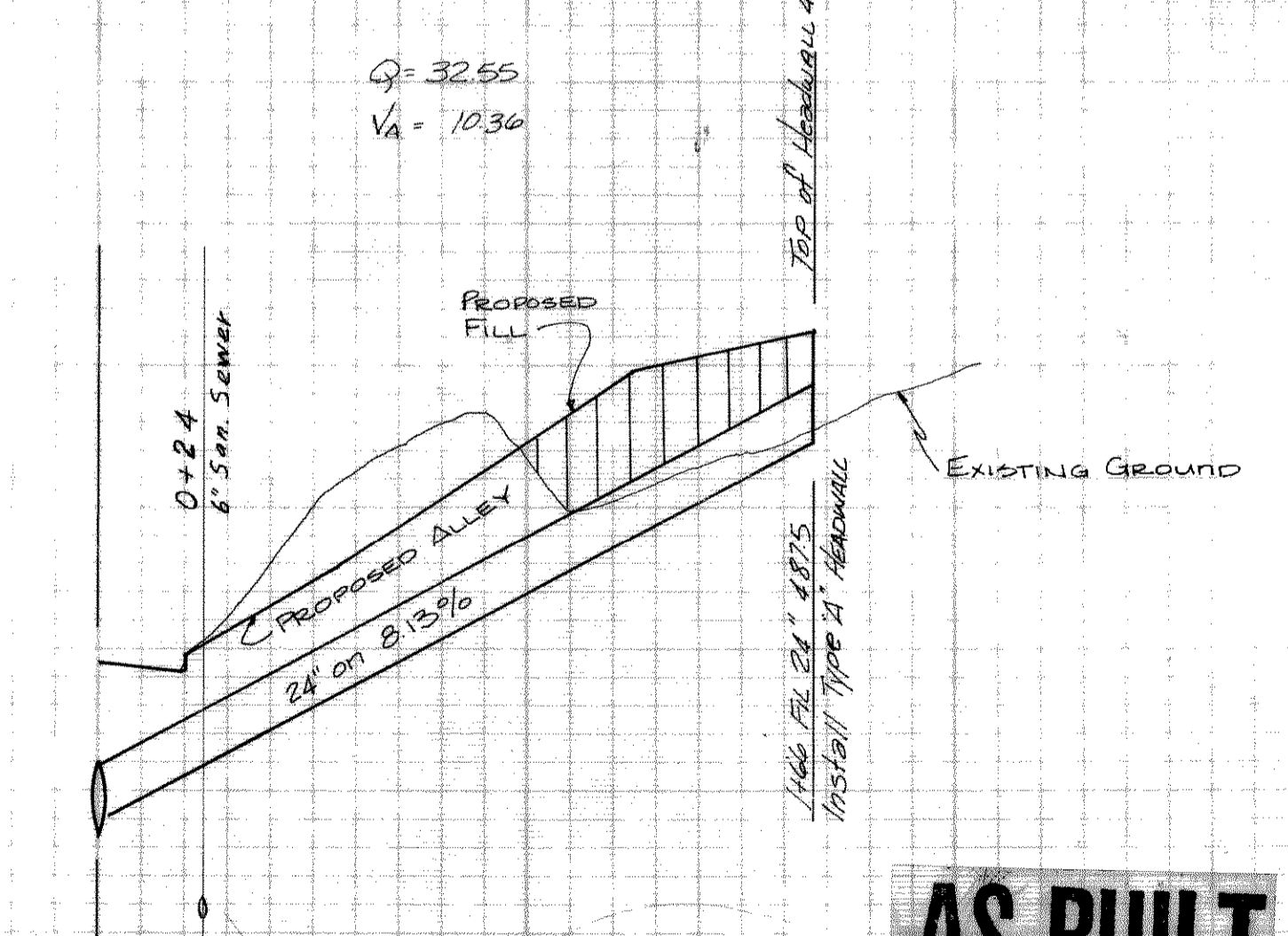
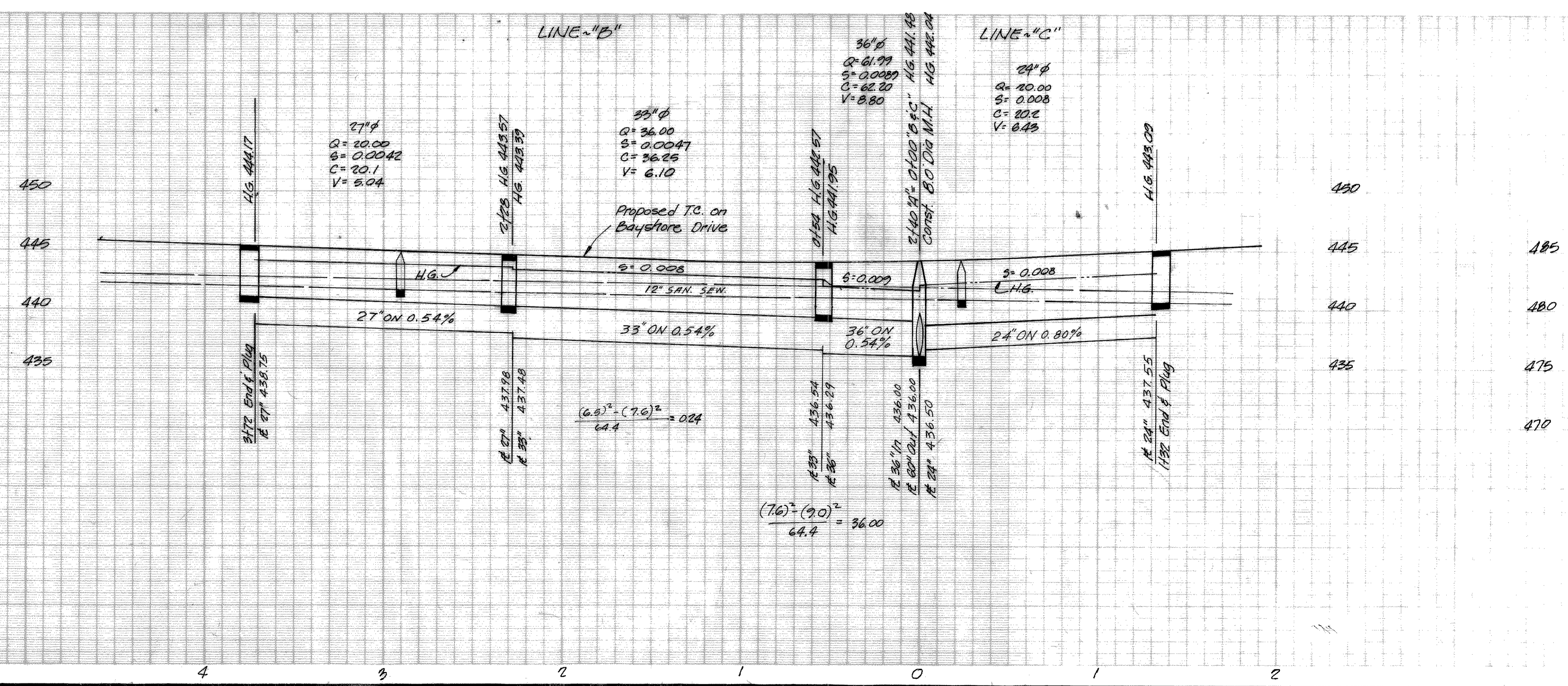


NORTHSHORE PHASE I-A						
PROPOSED STORM SEWER						
CRESTWOOD DRIVE						
ROCKWALL COUNTY, TEXAS						
HAROLD L. EVANS CONSULTING ENGINEER						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
H.L.E.	P.A.	JUNE 1980	1" = 40'H 1" = 6'V			72140





NOTE:  
Water & San. Sew. Lines to be Warped to 5' off Back of Curb at Storm Sewer Inlets.

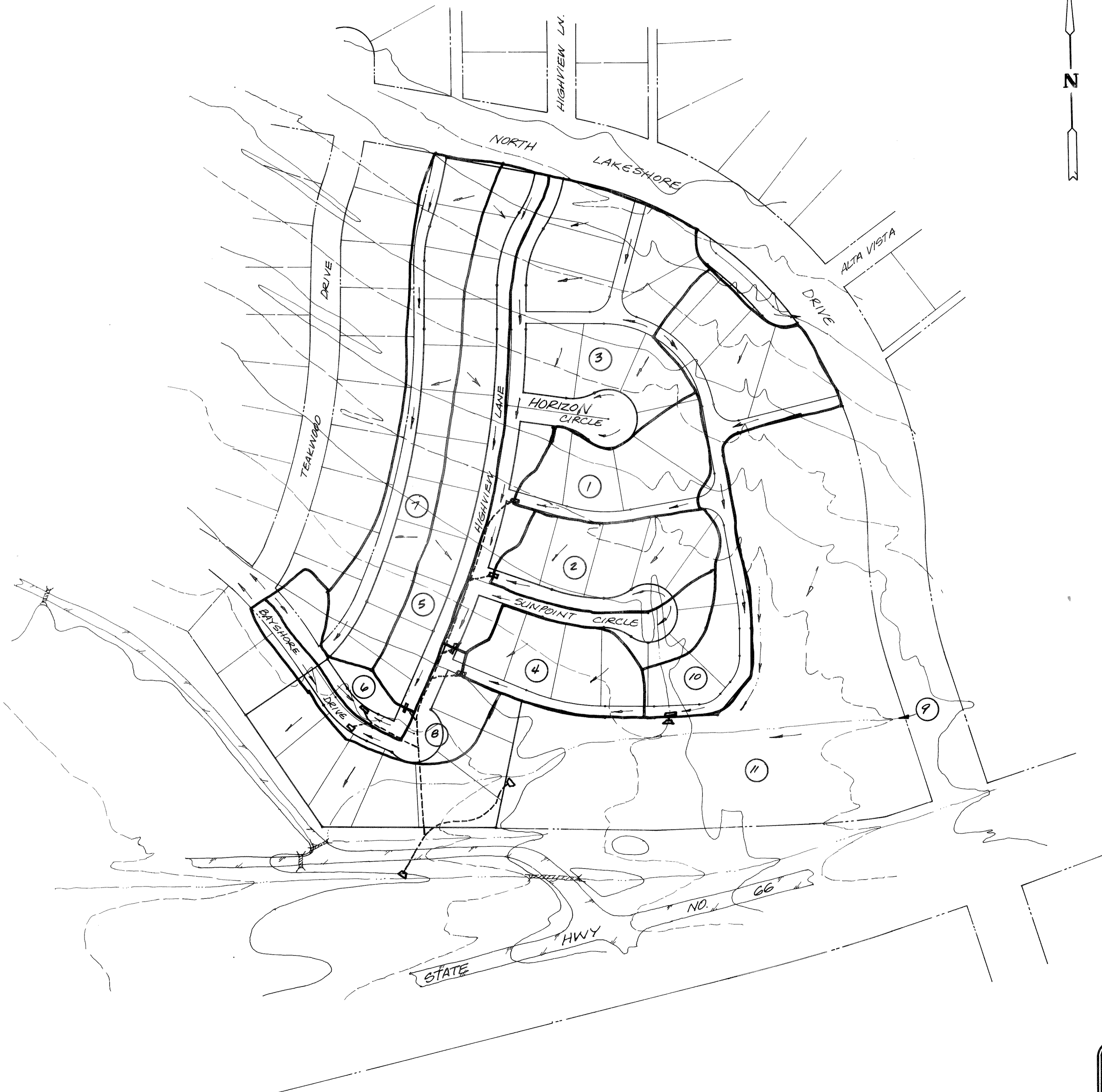


**AS BUILT**

REVISED: 9-18-80

NORTHSHORE PHASE I-A						
PROPOSED STORM SEWER						
BAYSHORE DRIVE						
ROCKWALL COUNTY, TEXAS						
HAROLD L. EVANS & CONSULTING ENGINEER						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
H.L.E.	R.N.	6-25-80	1" = 40' H 1/2" = 1' V			





DRAINAGE DATA												
AREA NO.	ACRES	L <sub>a</sub>	C	I <sub>s</sub>	Q <sub>s</sub>	ACCU <sub>m</sub> Q <sub>s</sub>	I <sub>100</sub>	Q <sub>100</sub>	ACCU <sub>m</sub> Q <sub>100</sub>			
1	1.02	10.0	0.50	6.2	3.16	3.16	9.80	5.00	5.00	5.00	~	5.00
2	1.16	10.2	"				9.80	5.68	10.68	10.68	~	10.68
3	3.86	10.4	"				9.75	18.82	29.50	11.68	7.20	22.30
4	0.92	10.5	"				9.70	4.44	33.96	4.44	~	26.76
5	1.84	10.6	"				9.70	8.92	42.88	8.92	~	35.68
6	0.46	10.70	"				9.65	2.22				~
7	1.97	10.70	"				9.65	9.51	11.72	11.72		11.72
8	0.78	10.70	"				9.65		3.76	10.96		22.68
9		11.51	"						78.1			58.36
10	2.02	12.00	0.50				9.60	9.70	87.8			~
11	5.40	12.0	0.80				9.60	41.47	129.27	129.27		129.27
Total												187.63

CITY OF ROCKWALL, TEXAS  
 n = 0.016  
 COMPUTATION SHEET FOR DETERMINING  
 CAPACITY OF CURB OPENING INLET

INLET TYPE & NO.	STATION	D.A. NO.	Q <sub>p</sub> C.F.S.	CARRY-OVER FLOW Q <sub>c</sub> C.F.S.	TOTAL FLOW Q <sub>t</sub> C.F.S.	Z	Z/N	S <sub>0</sub> FT/FT	Y <sub>0</sub> FT	PONDED WIDTH	Q <sub>1</sub> S.F.S. FT.	L <sub>1</sub> FT.	L <sub>2</sub> FT.	L <sub>3</sub> FT.	Q <sub>2</sub> C.F.S.	Q <sub>3</sub> C.F.S.	CARRY-OVER FLOW Q <sub>c</sub> C.F.S.	REMARKS
10'	1115 RT ALLEY "A"	10	9.07	-0-	9.07	18	1125	0.040	0.37	6.66	1.00	9.07	10'	1.10	1'	9.07	-0-	
5'	CHAO RT ALLEY "A"	1	5.00	-0-	5.00	18	1125	0.010	0.38	4.84	1.01	4.95	5'	1.01	1'	5.00	-0-	
5'	CHAO LT SUNPOINT CR	2	5.08	-0-	5.08	28	1150	0.005	0.42	11.76	1.05	4.84	5'	1.03	1'	5.08	-0-	
15'	B77B RT LT HIGHVIEW LN	3	18.82	0.60	19.42	28	1150	0.045	0.42	11.76	1.05	18.49	15'	0.81	0.88	16.27	2.22 (7.2)	
5'	CHAO RT ALLEY "A"	4	4.44	-0-	4.44	18	1125	0.030	0.30	5.40	0.92	4.85	5'	1.03	1'	4.44	-0-	
10'	1071B RT HIGHVIEW LN	5	8.92	-0-	8.92	28	1150	0.038	0.34	9.52	0.96	9.29	15'	1.01	1'	8.92	-0-	
10'	1113B RT BAYSHORE DR	6	11.72	-0-	11.72	28	1150	SAG	0.54	15.12	1.15	9.85	10'	1.01	1'	11.72	0	
10'	1178B LT BAYSHORE DR	8	3.76	7.2	10.96	28	1150	SAG	0.46	12.88	1.10	9.96	10'	1.00	1'	10.96	-0-	

AS-BUILT  
11-5-87

REVISION DESCRIPTION		DATE	SCALE	DESIGN	DRAWN	HAROLD L. EVANS & ASSOCIATES Consulting Engineers P.O. Box 28355 2331 Gus Thomasson Road, Suite 102 Dallas, Texas 75228 (214) 328-8133	<b>DRAINAGE AREA MAP</b> <b>NORTHSHORE PHASE 4</b> CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS	SHEET NO. <b>7</b> 12	JOB NO. B6170-A
REVISED DRAINAGE AREAS		5-12-87	1" = 100'	PN.	PN.				



STATE OF TEXAS  
COUNTY OF ROCKWALL

OWNERS CERTIFICATE

WHEREAS, Burgoy-Miller, Inc., is the owner of a tract of land situated in the W.B. Bowles Survey, Abstract No. 12, and the B.F. Boidston Survey, Abstract No. 14, Rockwall County, Texas, and being a part of that tract of land described as Tract 4 in deed to First Texas Savings and Loan and recorded in Volume 147, Page 474, Deed Records, Rockwall County, Texas, and being more particularly described as follows:

BEGINNING at an iron rod at the intersection of the East line of a 15 foot wide alley as dedicated by plat of Northshore Phase 1-A and recorded in Slide A, Page 393, Plat Records, Rockwall County, Texas, with the Southerly line of North Lakeshore Drive, a 100 foot right-of-way;  
THENCE, South 79° 52' 20" East a distance of 213.42 feet with said Southerly line to the point of curvature of a circular curve to the left having a central angle of 58° 51' 46", a radius of 621.90 feet and a chord that bears South 50° 26' 27" East a distance of 611.18 feet;  
THENCE, Along said curve and with said line of North Lakeshore Drive an arc distance of 621.90 feet to an iron rod set for a corner;

THENCE, Leaving said westerly line and traversing said First Texas tract as follows: South 76° 00' 00" West a distance of 185.58 feet to an iron rod at the point of curvature of a circular curve to the left having a central angle of 86° 15' 00" and a chord that bears South 32° 52' 30" West a distance of 47.85 feet; Along said curve an arc distance of 52.69 feet to an iron rod for a corner;  
THENCE, South 10° 15' 00" East a distance of 237.83 feet to an iron rod at the point of curvature of a circular curve to the left having a central angle of 10° 15' 00", a radius of 350.00 feet and a chord that bears South 5° 07' 30" East a distance of 62.53 feet; Along said curve and with said line of North Lakeshore Drive an arc distance of 62.53 feet to an iron rod for a corner;  
THENCE, South 38° 51' 51" East a distance of 62.61 feet to an iron rod for a corner; South 87° 34' 13" West a distance of 109.00 feet to an iron rod for a corner; South 87° 34' 13" West a distance of 79.61 feet to an iron rod for a corner; South 87° 34' 13" West a distance of 85.00 feet to an iron rod at the point of curvature of a circular curve to the right having a central angle of 2° 30' 00" and a chord that bears South 87° 34' 13" West a distance of 146.32 feet; Along said curve an arc distance of 147.26 feet to an iron rod for a corner;  
THENCE, North 89° 44' 10" West a distance of 222.94 feet to an iron rod for a corner on the North line to its intersection with the City of Dallas Take Line;  
THENCE, North 34° 12' 37" West a distance of 233.64 feet with said Take Line to an iron rod for a corner, said iron rod being the point of curvature of a circular curve to the left having a central angle of 21° 34' 05", a radius of 320.00 feet and a chord that bears North 34° 34' 25" East a distance of 119.75 feet; Along said curve an arc distance of 120.46 feet to an iron rod at the point of curvature of a circular curve to the left having a central angle of 23° 51' 33", a radius of 150.00 feet and a chord that bears North 0° 15' 50" East a distance of 478.56 feet; Along said curve an arc distance of 481.94 feet to an iron rod for a corner;  
THENCE, Along said curve to the right having a central angle of 17° 20' 13", and a radius of 197.79 feet; Along said curve and with said East line a distance of 117.04 feet to an iron rod set at the point of reverse curvature of a circular curve to the left having a central angle of 7° 20' 29", a radius of 165.93 feet to an iron rod set at the point of intersection of said East line an arc distance of 121.34 feet to the Point of Beginning and Containing 639,993 Square Feet or 14,6922 Acres of Land.

NOW THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT Burgoy-Miller, Inc., being owner, does hereby adopt this plat designating the hereinabove described property as Northshore Phase 4, Rockwall County, Texas, and does hereby dedicate to the public use forever the streets and alleys shown thereon, and does hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips; and any public utility shall have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, and repairing of their respective system without the necessity of, at any time, procuring the permission of anyone. The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.

No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until such time as the developer has complied with all requirements of the Platting Ordinance of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, drainage structures, and storm sewers, all according to the specifications of the City of Rockwall.

It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building within such plat shall be approved, authorized or permit therefore issued, nor shall such approval constitute any representation, assurance or guarantee by the City of the adequacy and availability of water for personal use and fire protection within such plat, as required under Ordinance 83-54.

WITNESS MY HAND at \_\_\_\_\_, Texas, this \_\_\_\_\_ day of \_\_\_\_\_, 1987.

BURGOY-MILLER, INC.

LELAND MILLER, Vice President

RICK BURGOY, President

STATE OF TEXAS  
COUNTY OF \_\_\_\_\_

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_, 1987, by Rick Burgoy, the President of Burgoy-Miller, Inc., a Texas corporation, on behalf of said corporation.

Notary Public  
My Commission Expires \_\_\_\_\_

STATE OF TEXAS  
COUNTY OF \_\_\_\_\_

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_, 1987, by Leland Miller, the Vice-President of Burgoy-Miller, Inc., a Texas corporation, on behalf of said corporation.

Notary Public  
My Commission Expires \_\_\_\_\_

SURVEYOR'S CERTIFICATE

NOW THEREFORE KNOW ALL MEN BY THESE PRESENTS: THAT I, Harold L. Evans, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.

Harold L. Evans, P.E., Registered Public Surveyor No. 2116

STATE OF TEXAS  
COUNTY OF DALLAS

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_, 1987, by Harold L. Evans.

City Manager

APPROVED

Date

Chairman, Planning and Zoning Commission

Date

I hereby certify that the above foregoing plat of Northshore Phase 4, an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the \_\_\_\_\_ day of \_\_\_\_\_, 1987.

This approval shall be invalid unless the approved Plat for such addition is recorded in the office of the County Clerk of Rockwall County, Texas, within one hundred twenty (120) days from said date of final approval.

Said addition shall be subject to all the requirements of the Platting Ordinance of the City of Rockwall.

WITNESS OUR HANDS this \_\_\_\_\_ day of \_\_\_\_\_, 1987.

Mayor, City of Rockwall

City Secretary, City of Rockwall

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12

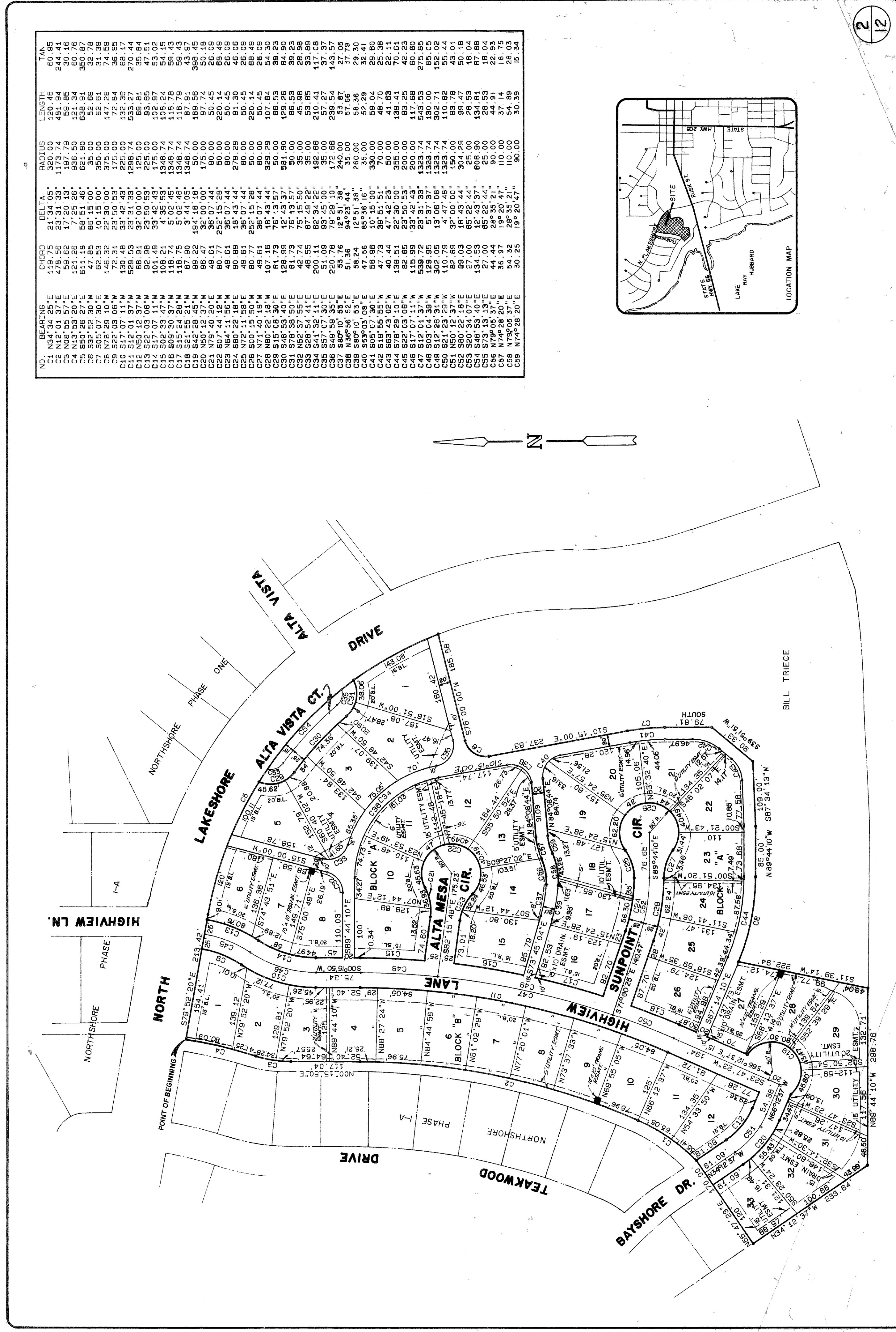
HAROLD L. EVANS  
CONSULTING ENGINEER  
2331 GUS THOMASSON RD. SUITE 02  
DALLAS, TEXAS 75228  
PHONE (214) 328-8133

SCALE DATE JOB NO.  
APRIL, 1987 86170-A

NORTHSHORE PHASE 4

W.B. BOWLES SURVEY  
B.F. BOYDSTON SURVEY  
CITY OF ROCKWALL — ROCKWALL COUNTY, TEXAS  
BURGOY-MILLER, INC.  
319 YACHT CLUB DRIVE  
ROCKWALL, TX. 75087

187272 187272



HAROLD L. EVANS  
CONSULTING ENGINEER  
2331 GUS THOMASSON RD. SUITE 02  
DALLAS, TEXAS 75228  
PHONE (214) 328-8133

SCALE DATE JOB NO.  
1"=100' 7-22-1987 86170-A

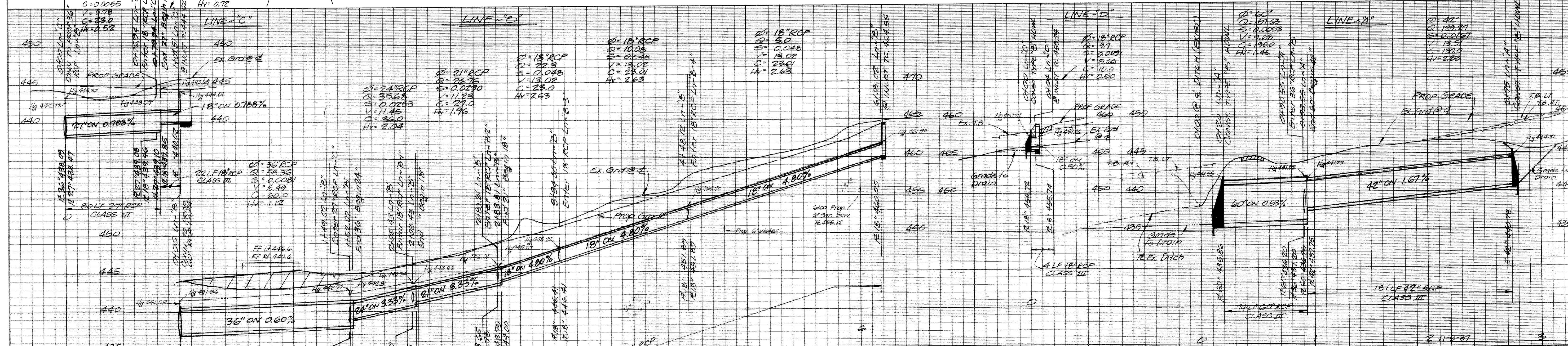
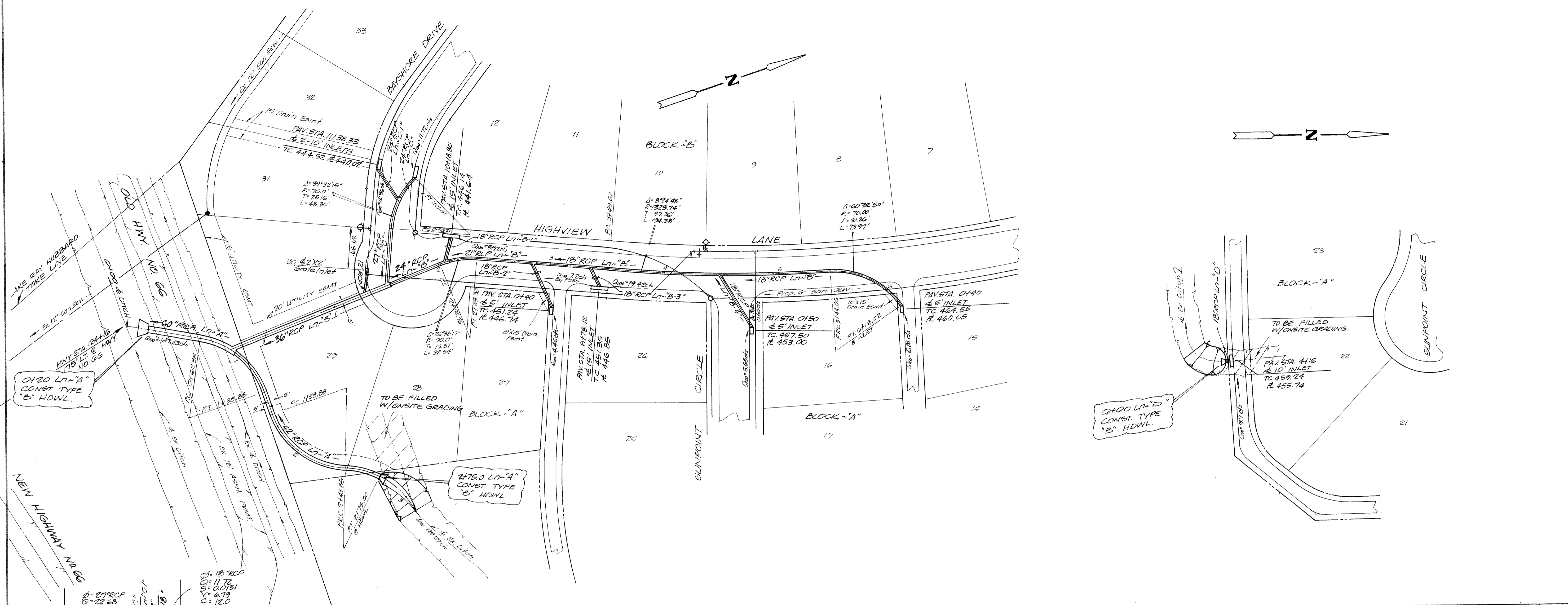
NORTHSHORE PHASE 4

W.B. BOWLES SURVEY  
B.F. BOYDSTON SURVEY  
CITY OF ROCKWALL — ROCKWALL COUNTY, TEXAS  
BURGOY-MILLER, INC.  
319 YACHT CLUB DRIVE  
ROCKWALL, TX. 75087

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12

187272 187272





HAROLD L. EVANS & ASSOCIATES Consulting Engineers P. O. Box 28355 2331 Gus Thomasson Road, Suite 102 Dallas, Texas 75228 (214) 328-8133		<b>STORM DRAINAGE PLAN</b> <b>NORTHSHORE PHASE 4</b> CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS		SHEET NO. <b>8</b> 12 JOB NO. 86170-A
REVISION DESCRIPTION REVISED GRADES	DATE 4-14-87	SCALE 1"=40'H & 1"=6'V	DESIGN P.N.	DRAWN P.N.