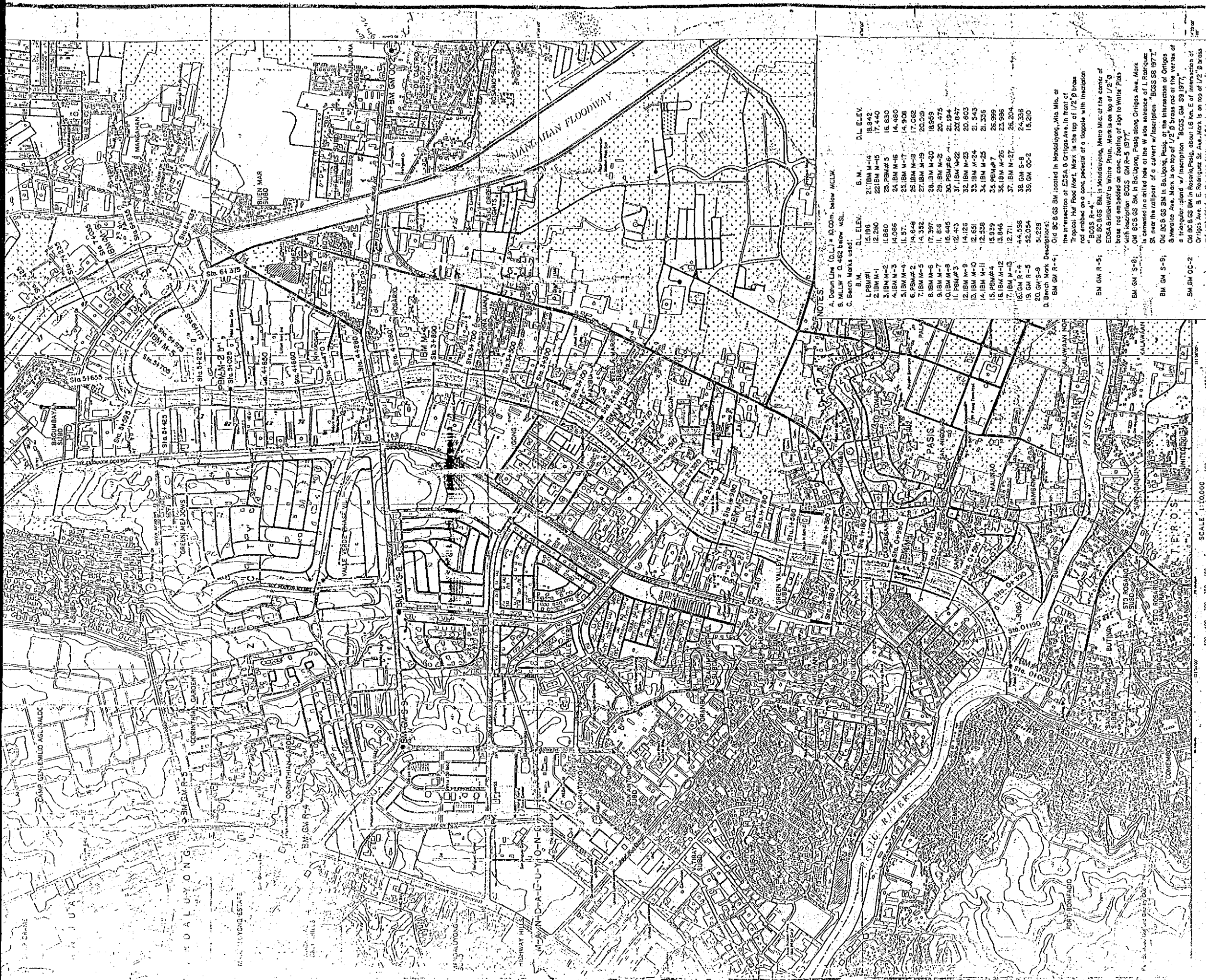




NOTES  
 A. Datum Line (G.L.) = 100m. below MLLW  
 B. MLLW = 0.462 below MSL  
 C. Bench Marks used:

B.M.	D.L. ELEV.	B.M.	D.L. ELEV.
1. BM M-1	15.96	21. BM M-14	18.92
2. BM M-2	12.290	22. BM M-15	17.440
3. BM M-3	18.60	23. BM M-16	16.830
4. BM M-4	14.086	24. BM M-17	14.880
5. BM M-5	11.571	25. BM M-18	14.908
6. BM M-6	14.648	26. BM M-19	17.082
7. BM M-7	14.352	27. BM M-20	20.019
8. BM M-8	17.357	28. BM M-21	18.959
9. BM M-9	11.815	29. BM M-22	20.475
10. BM M-10	15.445	30. BM M-23	21.194
11. BM M-11	12.413	31. BM M-24	23.847
12. BM M-12	14.126	32. BM M-25	20.603
13. BM M-13	12.651	33. BM M-26	21.313





**NOTES:**

A. Datum Line (D.L.) = 10.00m. below MLLW.  
 B. MLLW = 0.462 below MSL.  
 C. Bench Marks used:

B.M.	D.L. ELEV.	B.M.	D.L. ELEV.
1. PBM #1	15.196	21. IBM M-14	18.942
2. IBM M-1	12.280	22. IBM M-15	17.440
3. IBM M-2	11.860	23. PBM #5	16.830
4. IBM M-3	14.086	24. IBM M-16	14.480
5. IBM M-4	11.571	25. IBM M-17	14.908
6. PBM #2	14.648	26. IBM M-18	17.082
7. IBM M-5	4.382	27. IBM M-19	20.019
8. IBM M-6	17.397	28. IBM M-20	18.959
9. IBM M-7	11.816	29. IBM M-21	20.475
10. IBM M-8	15.445	30. PBM #6	21.194
11. PBM #3	12.413	31. IBM M-22	20.847
12. IBM M-9	14.126	32. IBM M-23	20.803
13. IBM M-10	12.651	33. IBM M-24	21.543
14. IBM M-11	12.538	34. IBM M-25	21.335
15. PBM #4	15.939	35. PBM #7	25.989
16. IBM M-12	13.846	36. IBM M-26	23.988
17. IBM M-13	12.711	37. IBM M-27	25.204
18. GM R-1	44.598	38. GM S-8	24.336
19. GM R-2	42.054	39. GM CC-2	15.210
20. GM S-9	51.228		

**Bench Mark Descriptions:**

BM GM R-1: Old BC & GS BM located in Mandaluyog, Metro Manila, at the intersection of EDSA & Ortigas Ave. in front of Tropical Hat Food Mart. Mark is the top of 1/2" brass rod embedded on a concrete pedestal w/ inscription "BCGS R-1".

BM GM R-2: Old BC & GS BM in Mandaluyog, Metro Manila, at the corner of EDSA & Highway to White Plain. Mark is on top of 1/2" brass rod embedded on a concrete footing of sign to White Plain w/ inscription "BCGS GM R-2".

BM GM S-8: Old BC & GS BM in Bacupang, Pasig along Ortigas Ave. Mark is cemented in a drilled hole at the W side entrance of L. Rodriguez St. near the railpost of a culvert w/ inscription "BCGS S8 1977".

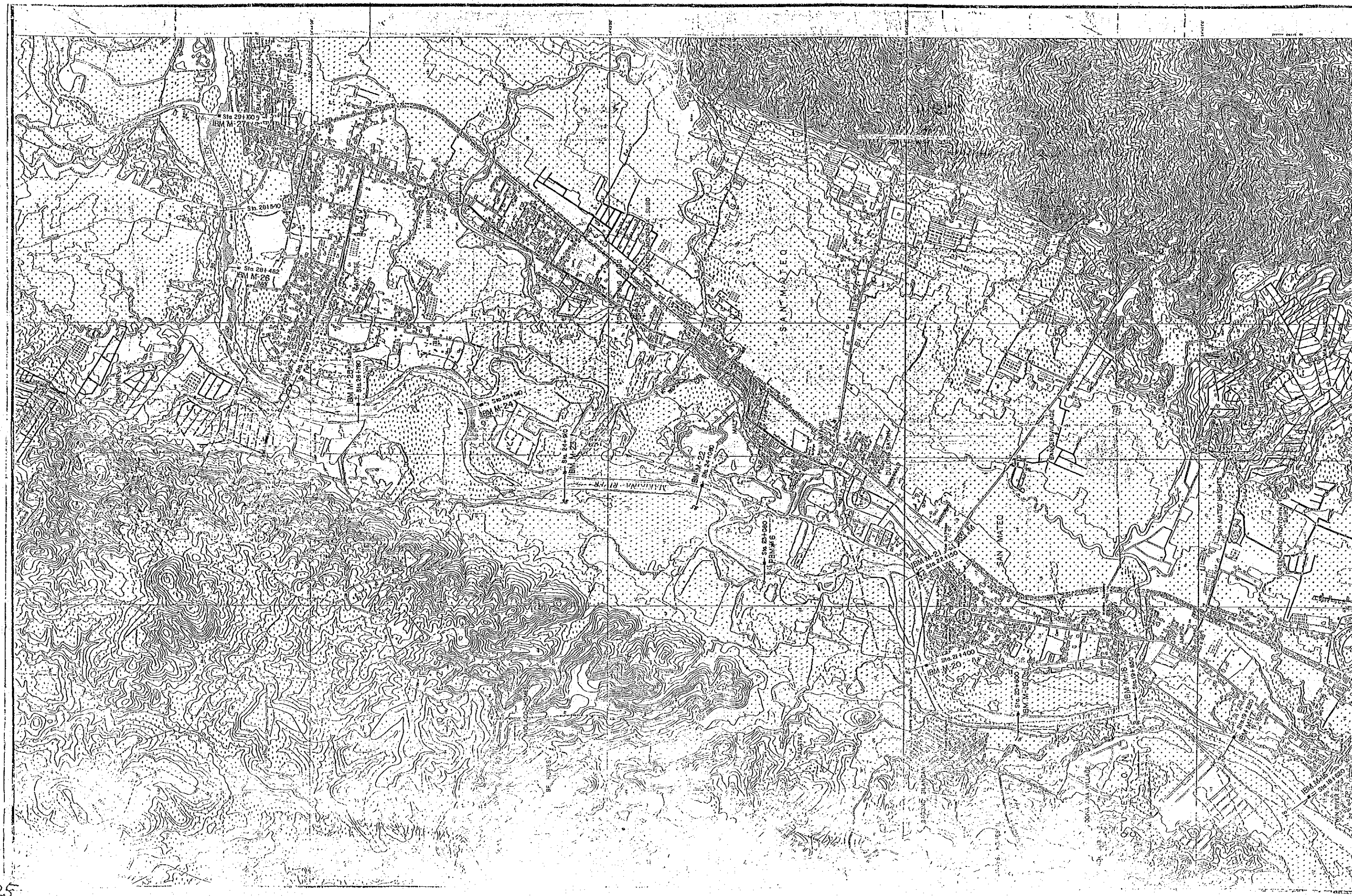
BM GM S-9: Old BC & GS BM in Bacupang, Pasig at the intersection of Ortigas & Maricao Ave. Mark is on top of 1/2" brass rod at the vertex of a triangular island w/ inscription "BCGS GM S9 1977".

BM GM CC-2: Old BC & GS BM in Rosario, Pasig, about 1.6 Km. E of intersection of Ortigas Ave. & E. Rodriguez St. Ave. Mark is on top of 1/2" brass rod embedded at the concrete footing of G.L. electric post w/ inscription "BCGS GM CC-2 1977".

**INDEX MAP**  
MARIKINA RIVER

<b>CONSULTANT'S</b>		<b>DEPARTMENT OF PUBLIC WORKS &amp; HIGHWAYS</b>	<b>SHEET NO.</b>
SURVEYED BY	DATE	DATE	DATE
CHECKED BY			
PROJECT MANAGER			
<b>ACRE SURVEYING &amp; DEVELOPMENT</b>		<b>1/2</b>	









SCALE 1:10,000

**ACRE SURVEYING  
& DEVELOPMENT**

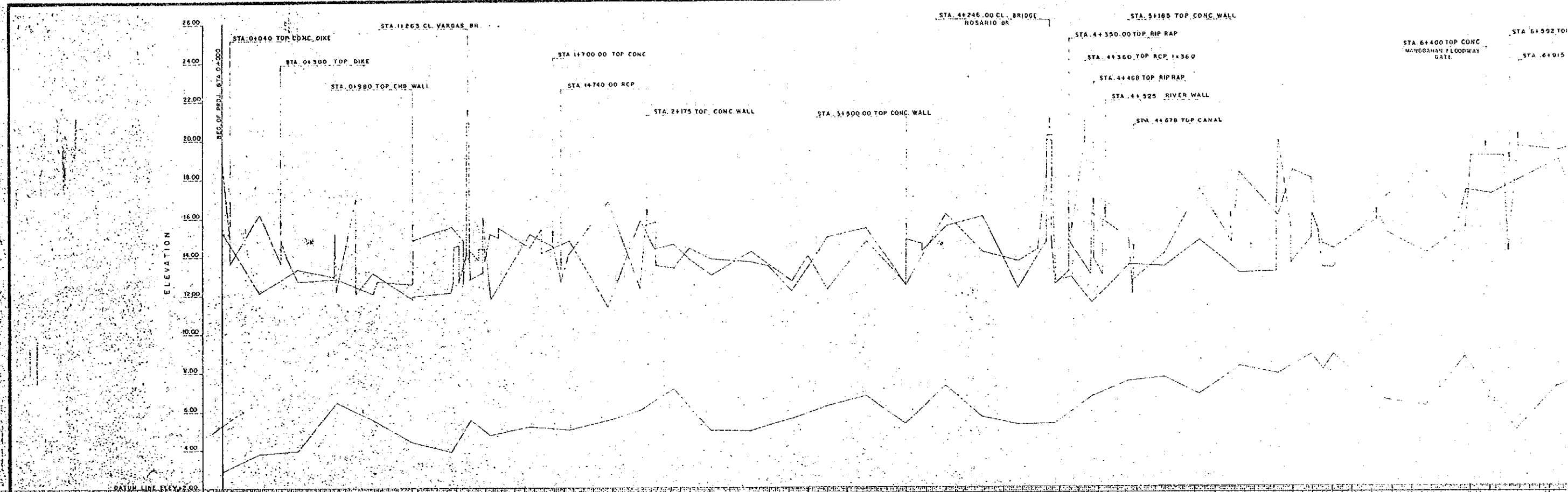


CONSULTANTS SIGNATURE	
DATE	SIGNATURE
6/20/78	<i>[Signature]</i>
8/23/78	<i>[Signature]</i>
1/14/78	<i>[Signature]</i>

**INDEX MAP**  
MARIKINA RIVER

DEPARTMENT OF PUBLIC WORKS & HIGHWAYS	
DATE	SIGNATURE
	<i>[Signature]</i>
	<i>[Signature]</i>





STATION NO.	EXISTING ELEVATION							PROPOSED ELEVATION						
	RIVER BED	SOIL LEVEL	LOW WATER LEVEL	UPPER SED.	ADULT LEVEL	POST LEVEL	RIVER BED	RIVER BED	SOIL LEVEL	LOW WATER LEVEL	UPPER SED.	ADULT LEVEL	POST LEVEL	RIVER BED
0+000														
0+200														
0+400														
0+600														
0+800														
1+000														
1+200														
1+400														
1+600														
1+800														
2+000														
2+200														
2+400														
2+600														
2+800														
3+000														
3+200														
3+400														
3+600														
3+800														
4+000														
4+200														
4+400														
4+600														
4+800														
5+000														
5+200														
5+400														
5+600														
5+800														
6+000														



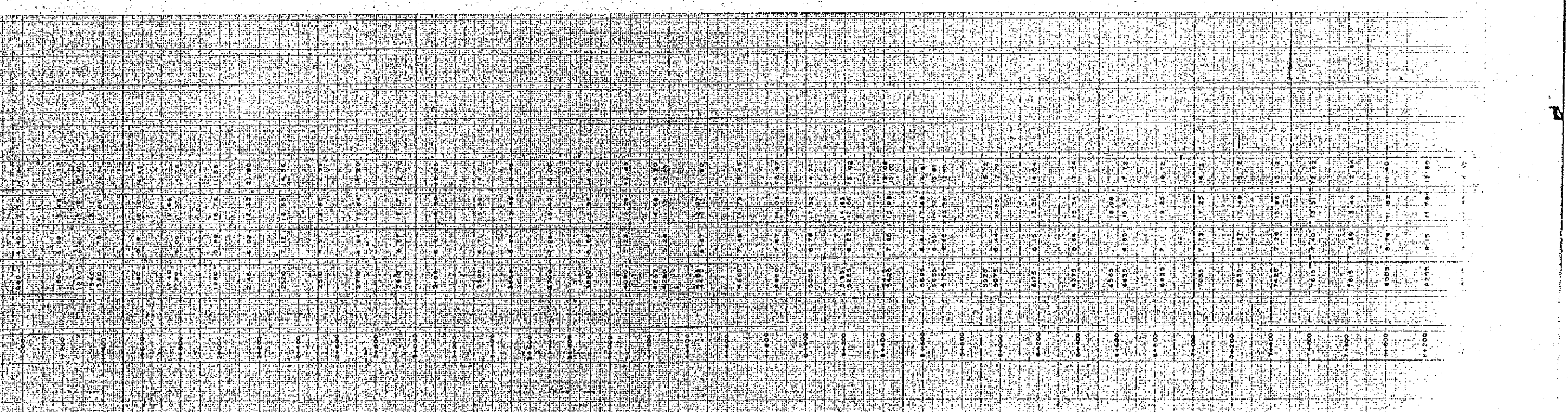
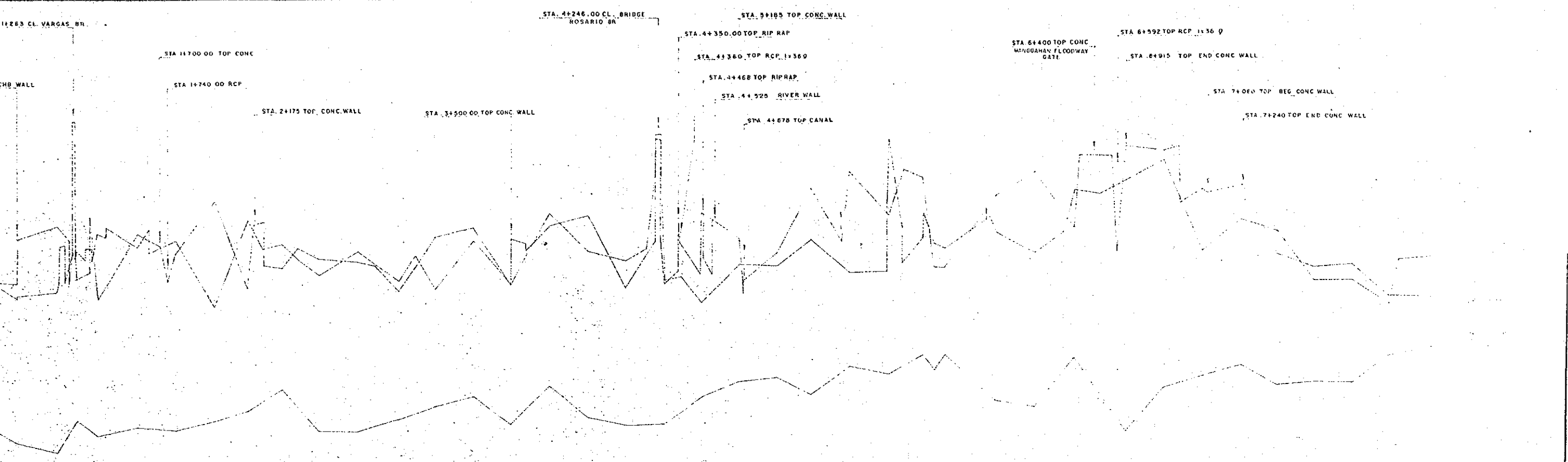
AGRE SURVEYING  
& DEVELOPMENT

CONSULTANTS		
DATE	SIGNATURE	
8-12-88	<i>[Signature]</i>	
8-17-88	<i>[Signature]</i>	



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF  
PUBLIC WORKS AND HIGHWAYS

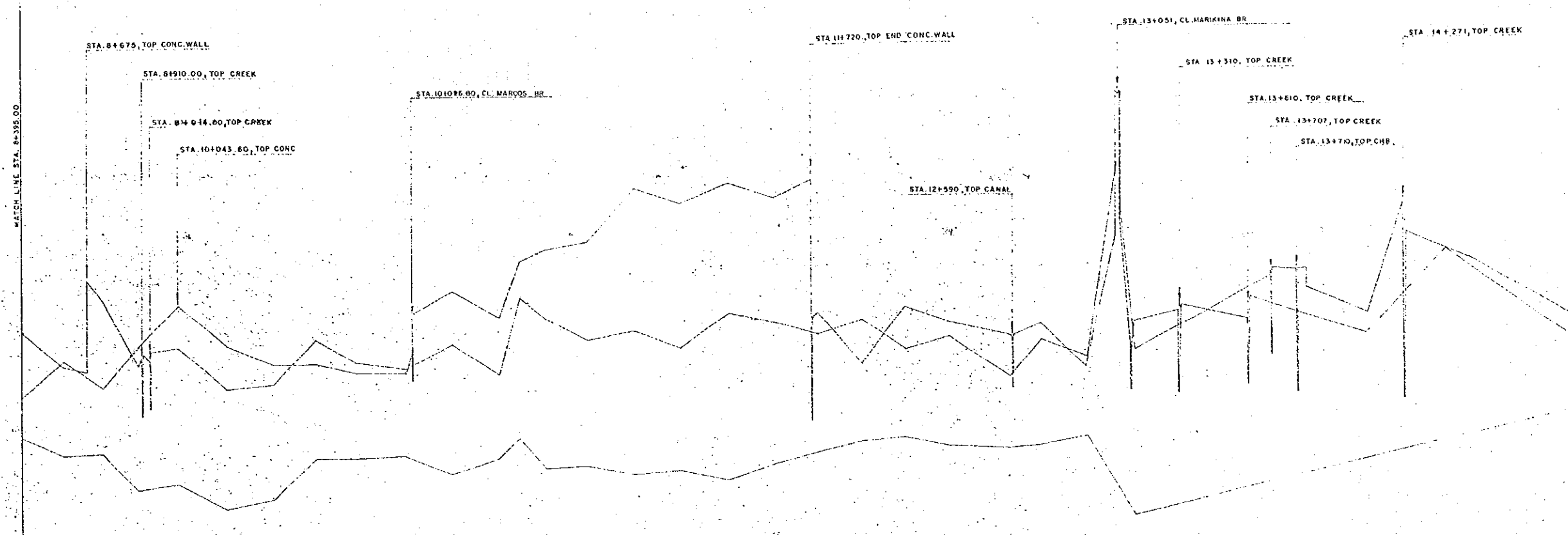
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PROJECT ENGINEER			<i>[Signature]</i>
PROJECT MANAGER			<i>[Signature]</i>



CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE	SIGNATURE	<p><b>PLAN AND PROFILE</b></p> <p>MARIKINA RIVER, STA. 0+000 - STA. 8+200</p>
DATE	SIGNATURE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT ENGINEER	MORITO P. PANDAY	
8-12-88	[Signature]	[Logo]		PROJECT MANAGER	EUGENIO MANALO	



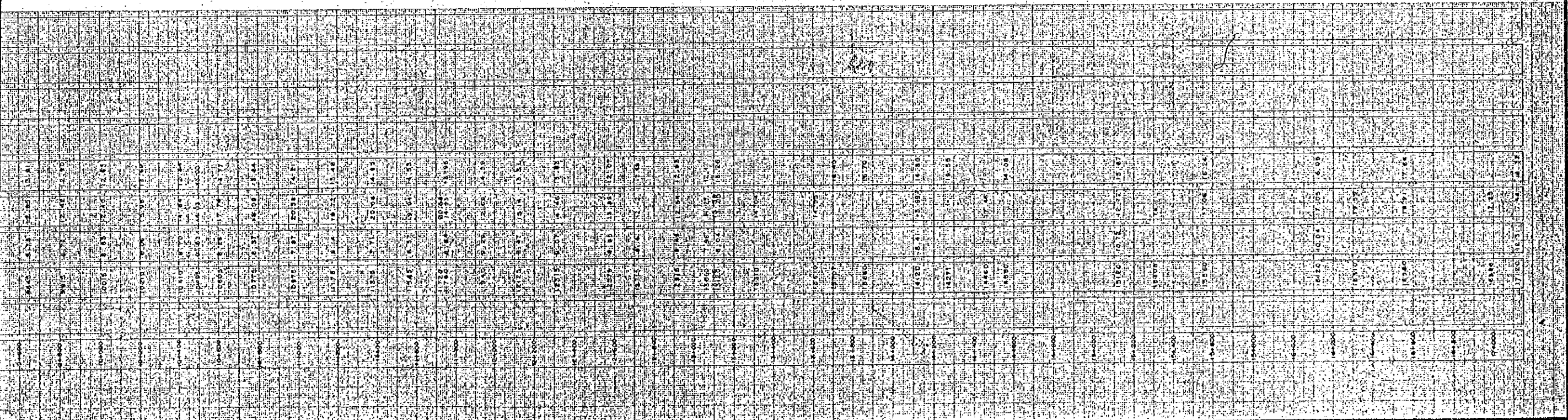
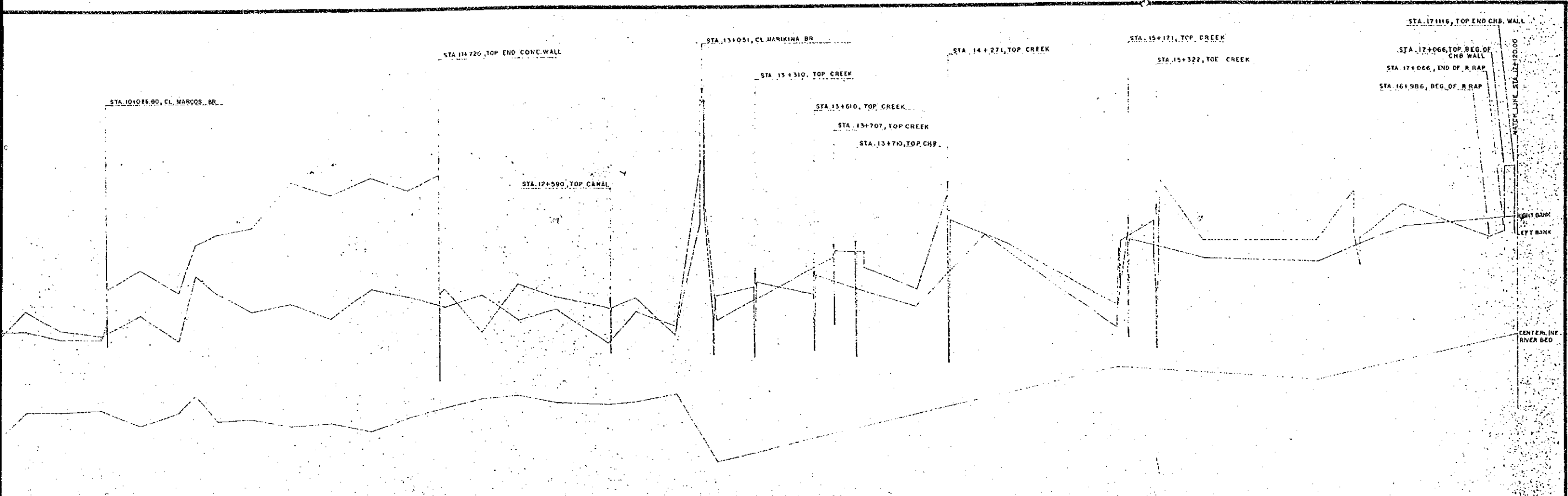
ELEVATION  
 28.00  
 26.00  
 24.00  
 22.00  
 20.00  
 18.00  
 16.00  
 14.00  
 12.00  
 10.00  
 8.00  
 6.00



DATUM LINE CL. 4.00

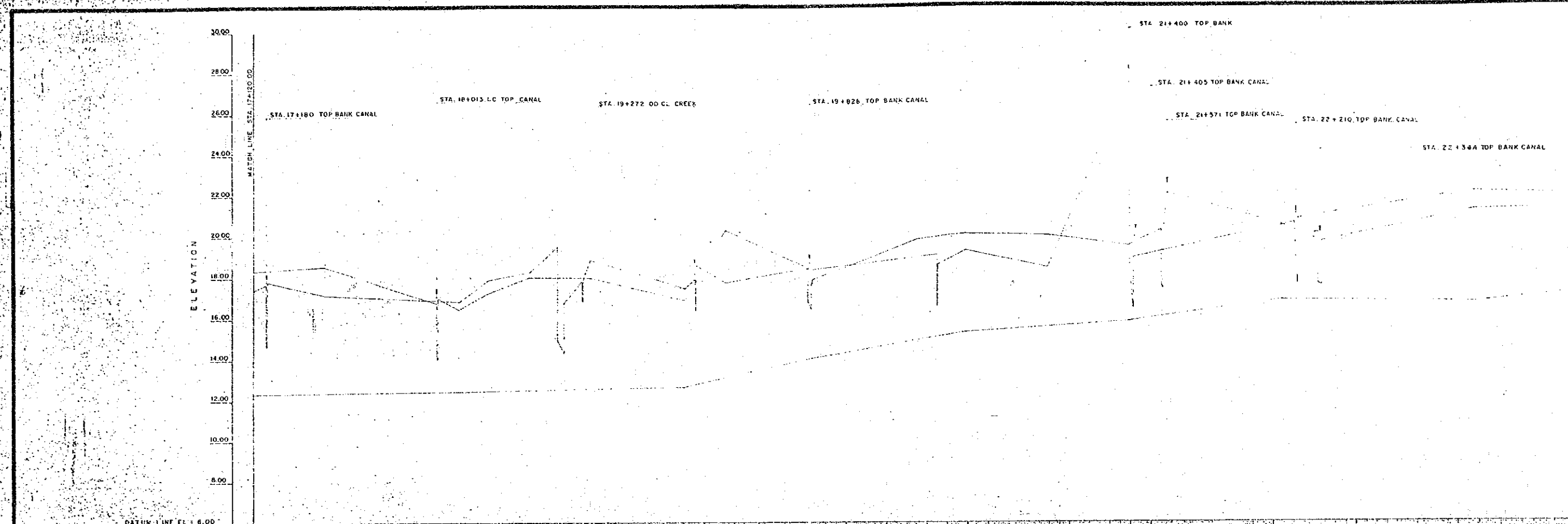
STATIONING	ELEVATION		DISTANCE	SLOPE	SLOPE PERCENT	SLOPE ANGLE	SLOPE BEARING	SLOPE TYPE	SLOPE CODE	SLOPE DESCRIPTION
	ORIGINAL	PROPOSED								
8+000	11.50	11.50	0.00							
8+100	12.50	12.50	100.00							
8+200	13.50	13.50	200.00							
8+300	14.50	14.50	300.00							
8+400	15.50	15.50	400.00							
8+500	16.50	16.50	500.00							
8+600	17.50	17.50	600.00							
8+700	18.50	18.50	700.00							
8+800	19.50	19.50	800.00							
8+900	20.50	20.50	900.00							
9+000	21.50	21.50	1000.00							
9+100	22.50	22.50	1100.00							
9+200	23.50	23.50	1200.00							
9+300	24.50	24.50	1300.00							
9+400	25.50	25.50	1400.00							
9+500	26.50	26.50	1500.00							
9+600	27.50	27.50	1600.00							
9+700	28.50	28.50	1700.00							
9+800	29.50	29.50	1800.00							
9+900	30.50	30.50	1900.00							
10+000	31.50	31.50	2000.00							
10+100	32.50	32.50	2100.00							
10+200	33.50	33.50	2200.00							
10+300	34.50	34.50	2300.00							
10+400	35.50	35.50	2400.00							
10+500	36.50	36.50	2500.00							
10+600	37.50	37.50	2600.00							
10+700	38.50	38.50	2700.00							
10+800	39.50	39.50	2800.00							
10+900	40.50	40.50	2900.00							
11+000	41.50	41.50	3000.00							
11+100	42.50	42.50	3100.00							
11+200	43.50	43.50	3200.00							
11+300	44.50	44.50	3300.00							
11+400	45.50	45.50	3400.00							
11+500	46.50	46.50	3500.00							
11+600	47.50	47.50	3600.00							
11+700	48.50	48.50	3700.00							
11+800	49.50	49.50	3800.00							
11+900	50.50	50.50	3900.00							
12+000	51.50	51.50	4000.00							
12+100	52.50	52.50	4100.00							
12+200	53.50	53.50	4200.00							
12+300	54.50	54.50	4300.00							
12+400	55.50	55.50	4400.00							
12+500	56.50	56.50	4500.00							
12+600	57.50	57.50	4600.00							
12+700	58.50	58.50	4700.00							
12+800	59.50	59.50	4800.00							
12+900	60.50	60.50	4900.00							
13+000	61.50	61.50	5000.00							
13+100	62.50	62.50	5100.00							
13+200	63.50	63.50	5200.00							
13+300	64.50	64.50	5300.00							
13+400	65.50	65.50	5400.00							
13+500	66.50	66.50	5500.00							
13+600	67.50	67.50	5600.00							
13+700	68.50	68.50	5700.00							
13+800	69.50	69.50	5800.00							
13+900	70.50	70.50	5900.00							
14+000	71.50	71.50	6000.00							
14+100	72.50	72.50	6100.00							
14+200	73.50	73.50	6200.00							
14+300	74.50	74.50	6300.00							
14+400	75.50	75.50	6400.00							
14+500	76.50	76.50	6500.00							

	CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE: 8/12/22 SIGNATURE: [Signature] PROJECT ENGINEER: [Signature] PROJECT MANAGER: [Signature]
	SURVEYED BY	DATE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		
	CHECKED BY	DATE			



DEPARTMENT OF <b>PUBLIC WORKS AND HIGHWAYS</b>		PROJECT ENGINEER PROJECT MANAGER	DATE SIGNATURE NORITO P. SANDOVAL FREDERICO D. MARALD	PLAN AND PROFILE MARIKINA RIVER, STA. 0+395 - 552 - 1" x 120'	SCALE HORIZONTAL 1" = 10,000' VERTICAL 1" = 100' DRWS. NO. 274
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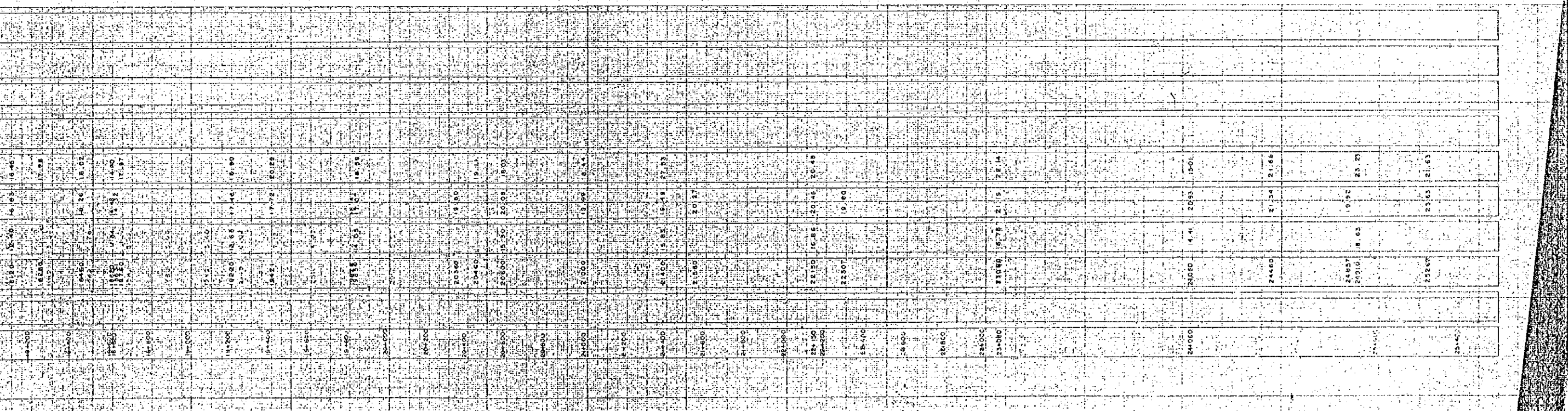
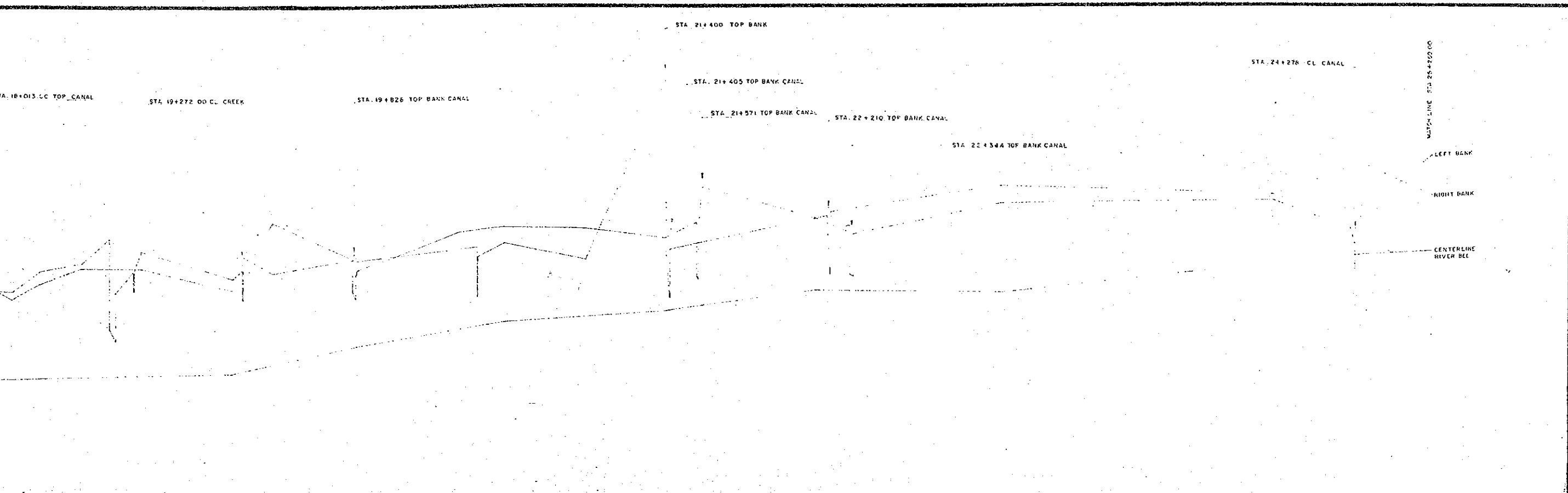


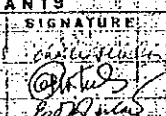
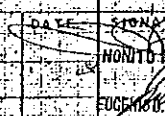


EXISTING ELEVATION	PROPOSED ELEVATION		DISTANCE	STATIONING
	RIVER BED	BANK LEVEL		
				17+180
				17+200
				17+220
				17+240
				17+260
				17+280
				17+300
				17+320
				17+340
				17+360
				17+380
				17+400
				17+420
				17+440
				17+460
				17+480
				17+500
				17+520
				17+540
				17+560
				17+580
				17+600
				17+620
				17+640
				17+660
				17+680
				17+700
				17+720
				17+740
				17+760
				17+780
				17+800
				17+820
				17+840
				17+860
				17+880
				17+900
				17+920
				17+940
				17+960
				17+980
				18+000
				18+020
				18+040
				18+060
				18+080
				18+100
				18+120
				18+140
				18+160
				18+180
				18+200
				18+220
				18+240
				18+260
				18+280
				18+300
				18+320
				18+340
				18+360
				18+380
				18+400
				18+420
				18+440
				18+460
				18+480
				18+500
				18+520
				18+540
				18+560
				18+580
				18+600
				18+620
				18+640
				18+660
				18+680
				18+700
				18+720
				18+740
				18+760
				18+780
				18+800
				18+820
				18+840
				18+860
				18+880
				18+900
				18+920
				18+940
				18+960
				18+980
				19+000
				19+020
				19+040
				19+060
				19+080
				19+100
				19+120
				19+140
				19+160
				19+180
				19+200
				19+220
				19+240
				19+260
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				19+820
				19+840
				19+860
				19+880
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				19+920
				19+940
				19+960
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				20+000
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				20+140
				20+160
				20+180
				20+200
				20+220
				20+240
				20+260
				20+280
				20+300
				20+320
				20+340

<p><b>ACRE SURVEYING &amp; DEVELOPMENT</b></p>	CONSULTANTS		REPUBLIC OF THE PHILIPPINES		<p>DATE: _____ SIGNATURE: _____</p> <p><i>[Signature]</i></p> <p>EUGENIO B. MAQUALD</p>
	SURVEYED BY: <i>[Signature]</i>	DATE: 8-12-88	CHECKED BY: <i>[Signature]</i>	PROJECT ENGINEER	
	PROJECT MANAGER: <i>[Signature]</i>			PROJECT MANAGER	

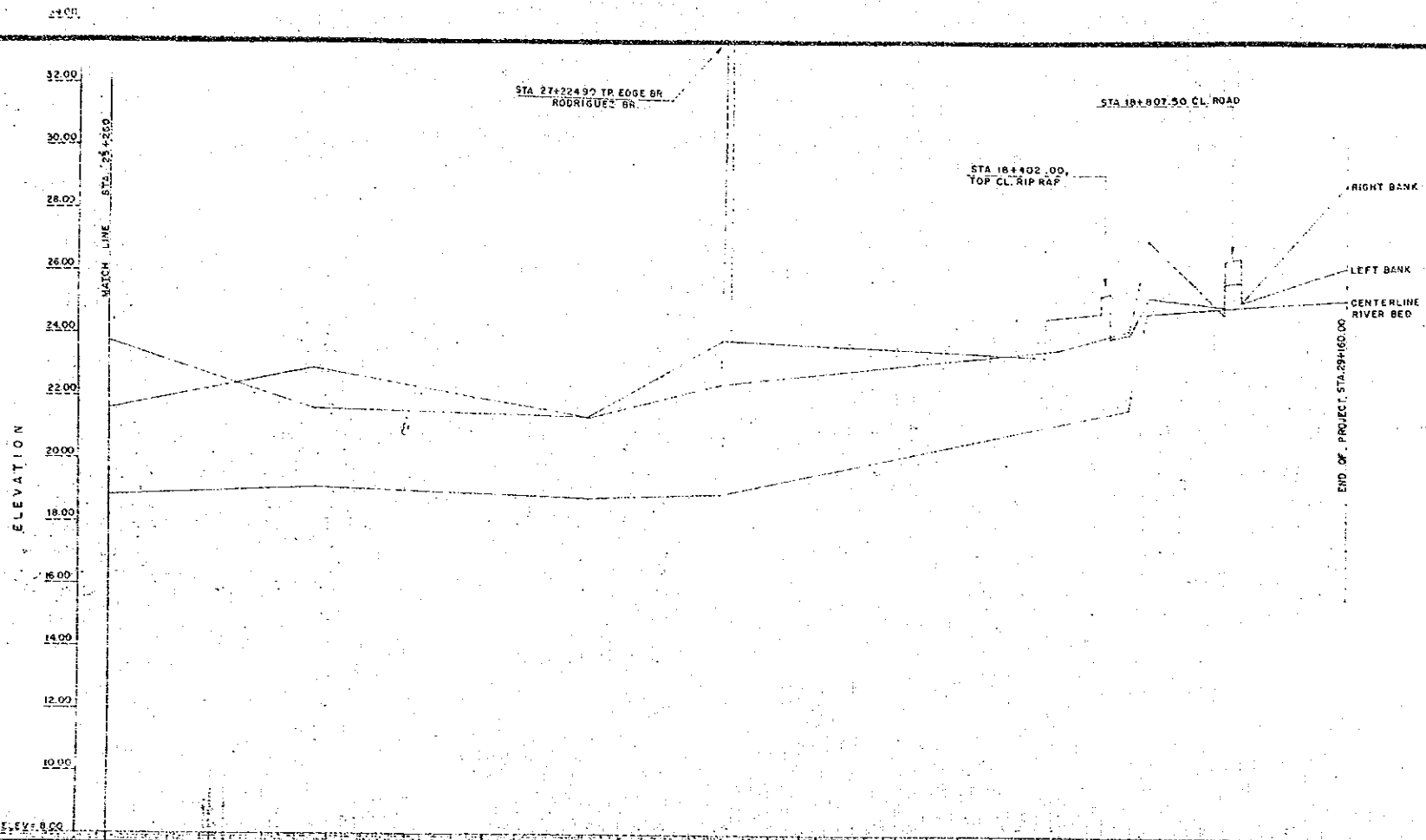




CONTRACTANTS DATE: _____ SIGNATURE: _____ 		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS PROJECT ENGINEER: _____ PROJECT MANAGER: _____ 		DATE: _____ SIGNATURE: _____ HONITO E. PANG EDGEMOR MANALO		SCALE HORIZONTAL: 1:10,000 VERTICAL: 1:100		DRAWING NO. 014
PLAN AND PROFILE MARIKINA RIVER - STA. 17+120 - STA. 25+260.00								

Tracing Paper  
Printed in Japan





STATION NO.	PROPOSED ELEVATION		EXISTING ELEVATION		CUMULATIVE DISTANCE	DISTANCE
	RIVER BED GRADIENT	BANK LEVEL	RIGHT LEVÉE	LEFT LEVÉE		
25+000					25000	
25+100					25100	
25+200					25200	
25+300					25300	
25+400					25400	
25+500					25500	
25+600					25600	
25+700					25700	
25+800					25800	
25+900					25900	
26+000					26000	
26+100					26100	
26+200					26200	
26+300					26300	
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28+800					28800	
28+900					28900	
29+000					29000	
29+100					29100	
29+200					29200	
29+300					29300	
29+400					29400	
29+500					29500	
29+600					29600	
29+700					29700	
29+800					29800	
29+900					29900	

MARIKINA RIVER, STA 25+200 - STA 29+000

**ACRE SURVEYING & DEVELOPMENT**

**CONSULTANTS**  
 SURVEYED BY: *[Signature]*  
 CHECKED BY: *[Signature]*  
 PROJECT MANAGER: *[Signature]*

**REPUBLIC OF THE PHILIPPINES**  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

PROJECT ENGINEER: *[Signature]*  
 PROJECT MANAGER: *[Signature]*