

CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		CROSS SECTION		SCALE		ORIG. NO.	
DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE					HORIZONTAL	VERTICAL		
8/16/88	<i>[Signature]</i>				<i>[Signature]</i>					1:200	1:50	2/2	
8/14/88	<i>[Signature]</i>				<i>[Signature]</i>								



DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

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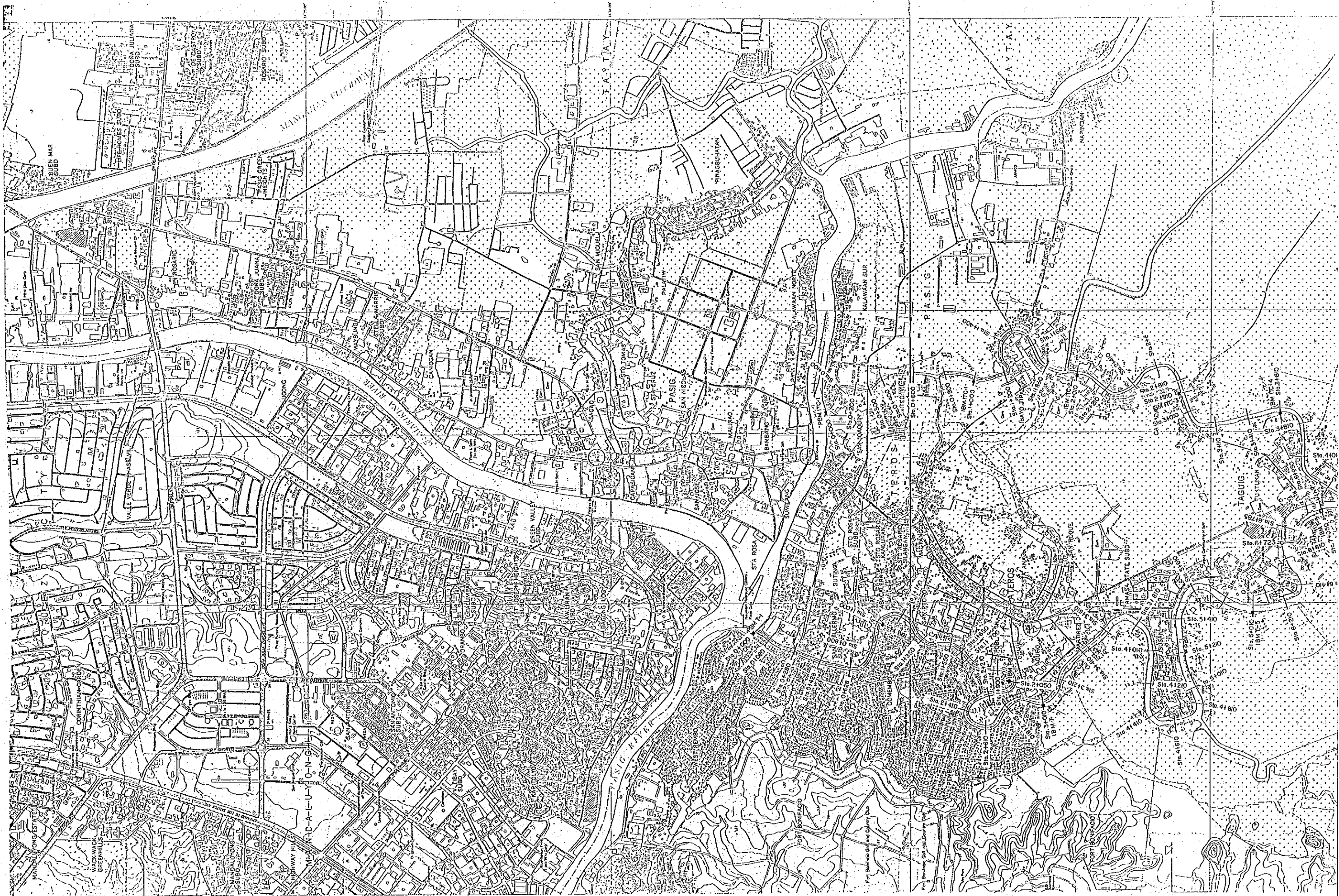
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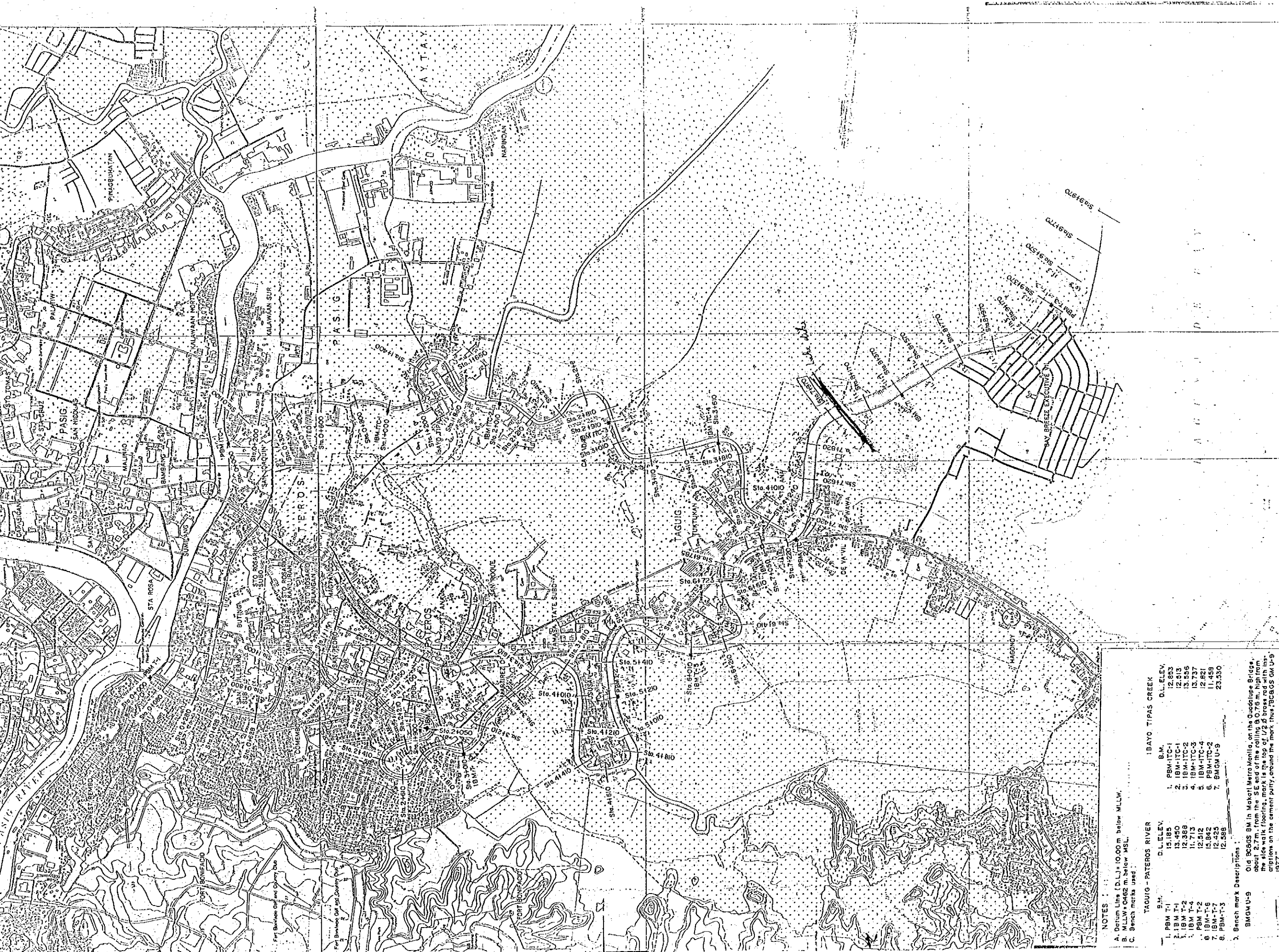
A-11 PATEROS-TAGUIG RIVER

INDEX MAP (1 SHEET)

LONGITUDINAL PROFILE (2 SHEET)

CROSS SECTION (8 SHEET)





NOTES :
A. Datum Line (D.L.) = 10.00 m below MLLW.
B. MLLW = 0.62 m. below MSL.

TAQUIG - PATEROS RIVER		IBAYO TIPAS CREEK	
S.M.		S.M.	
	D. ELEV.		D. ELEV.
1. PBM T-1	15,185	1. PBM-ITC-1	12,823
2. PBM T-1	13,450	2. PBM-ITC-1	12,913
3. PBM T-2	12,369	3. PBM-ITC-2	13,536
4. PBM T-4	11,713	4. PBM-ITC-3	13,377
5. PBM T-2	12,512	5. PBM-ITC-4	12,821
6. PBM T-6	15,942	6. PBM-ITC-2	11,459
7. PBM T-2	12,225	7. PBM U-9	23,530
8. PBM T-3	12,398		

Bench Mark Descriptions:

Old BC&GS GW in Makati Metro Manila, on the Queclupe Bridge, about 2.7 m. from the SE end of the rolling 80.75 m. high from the side walk flooring, mark is the top of 1/2" brass rod with inscriptions on the cement putty, around the mark thus "BC&GS GW U-9" 1977 "H"

100-443887-100

A-11-1

TAGUIG

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
ZONE 51 CLARKE SPHEROID 1866 LUZON DATUM
VERTICAL DATUM: MSL FOR HEIGHTS; MLLW FOR DEPTHS

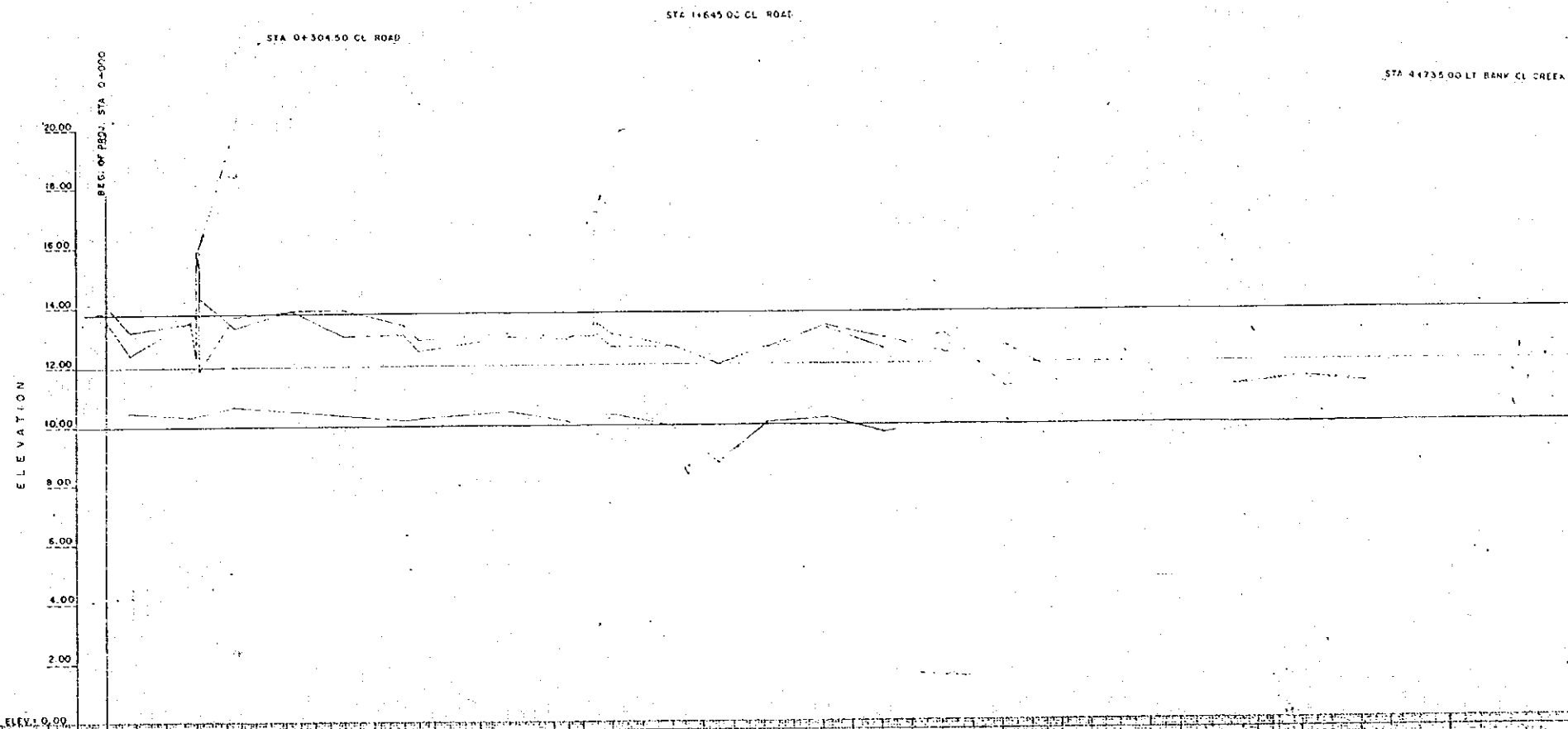
ACRE SURVEYING
& DEVELOPMENT

INDEX MAP
TAGUIG-PATEROS RIVER
IBAYO TIPAS CREEK

DEPARTMENT OF PUBLIC WORKS & HIGHWAYS	SHEET NO.
PROJECT ENGINEER	DATE
PROJECT MANAGER	SIGNATURE
	APPROVED BY
	REMARKS

CONSULTANTS		DATE	SIGNATURE
SURVEYED BY	7-10-68		<i>Charles Allen</i>
CHECKED BY			
PROJECT MANAGER			

TAGUIG - PATEROS & TIPAS CREEK



STATION NO.	DISTANCE	CUMULATIVE DISTANCE	EXISTING ELEVATION			PROPOSED ELEVATION		
			RIVER BED	LEFT LEVEE	RIGHT LEVEE	RIVER BED	HIGH WATER LEVEL	BANK LEVEL
0+000	0	0	12.00	12.00	12.00	12.00	12.00	12.00
0+050	50	50	12.00	12.00	12.00	12.00	12.00	12.00
0+100	100	100	12.00	12.00	12.00	12.00	12.00	12.00
0+150	150	150	12.00	12.00	12.00	12.00	12.00	12.00
0+200	200	200	12.00	12.00	12.00	12.00	12.00	12.00
0+250	250	250	12.00	12.00	12.00	12.00	12.00	12.00
0+300	300	300	12.00	12.00	12.00	12.00	12.00	12.00
0+350	350	350	12.00	12.00	12.00	12.00	12.00	12.00
0+400	400	400	12.00	12.00	12.00	12.00	12.00	12.00
0+450	450	450	12.00	12.00	12.00	12.00	12.00	12.00
0+500	500	500	12.00	12.00	12.00	12.00	12.00	12.00
0+550	550	550	12.00	12.00	12.00	12.00	12.00	12.00
0+600	600	600	12.00	12.00	12.00	12.00	12.00	12.00
0+650	650	650	12.00	12.00	12.00	12.00	12.00	12.00
0+700	700	700	12.00	12.00	12.00	12.00	12.00	12.00
0+750	750	750	12.00	12.00	12.00	12.00	12.00	12.00
0+800	800	800	12.00	12.00	12.00	12.00	12.00	12.00
0+850	850	850	12.00	12.00	12.00	12.00	12.00	12.00
0+900	900	900	12.00	12.00	12.00	12.00	12.00	12.00
0+950	950	950	12.00	12.00	12.00	12.00	12.00	12.00
1+000	1000	1000	12.00	12.00	12.00	12.00	12.00	12.00
1+050	1050	1050	12.00	12.00	12.00	12.00	12.00	12.00
1+100	1100	1100	12.00	12.00	12.00	12.00	12.00	12.00
1+150	1150	1150	12.00	12.00	12.00	12.00	12.00	12.00
1+200	1200	1200	12.00	12.00	12.00	12.00	12.00	12.00
1+250	1250	1250	12.00	12.00	12.00	12.00	12.00	12.00
1+300	1300	1300	12.00	12.00	12.00	12.00	12.00	12.00
1+350	1350	1350	12.00	12.00	12.00	12.00	12.00	12.00
1+400	1400	1400	12.00	12.00	12.00	12.00	12.00	12.00
1+450	1450	1450	12.00	12.00	12.00	12.00	12.00	12.00
1+500	1500	1500	12.00	12.00	12.00	12.00	12.00	12.00
1+550	1550	1550	12.00	12.00	12.00	12.00	12.00	12.00
1+600	1600	1600	12.00	12.00	12.00	12.00	12.00	12.00
1+650	1650	1650	12.00	12.00	12.00	12.00	12.00	12.00
1+700	1700	1700	12.00	12.00	12.00	12.00	12.00	12.00
1+750	1750	1750	12.00	12.00	12.00	12.00	12.00	12.00
1+800	1800	1800	12.00	12.00	12.00	12.00	12.00	12.00
1+850	1850	1850	12.00	12.00	12.00	12.00	12.00	12.00
1+900	1900	1900	12.00	12.00	12.00	12.00	12.00	12.00
1+950	1950	1950	12.00	12.00	12.00	12.00	12.00	12.00
2+000	2000	2000	12.00	12.00	12.00	12.00	12.00	12.00
2+050	2050	2050	12.00	12.00	12.00	12.00	12.00	12.00
2+100	2100	2100	12.00	12.00	12.00	12.00	12.00	12.00
2+150	2150	2150	12.00	12.00	12.00	12.00	12.00	12.00
2+200	2200	2200	12.00	12.00	12.00	12.00	12.00	12.00
2+250	2250	2250	12.00	12.00	12.00	12.00	12.00	12.00
2+300	2300	2300	12.00	12.00	12.00	12.00	12.00	12.00
2+350	2350	2350	12.00	12.00	12.00	12.00	12.00	12.00
2+400	2400	2400	12.00	12.00	12.00	12.00	12.00	12.00
2+450	2450	2450	12.00	12.00	12.00	12.00	12.00	12.00
2+500	2500	2500	12.00	12.00	12.00	12.00	12.00	12.00
2+550	2550	2550	12.00	12.00	12.00	12.00	12.00	12.00
2+600	2600	2600	12.00	12.00	12.00	12.00	12.00	12.00
2+650	2650	2650	12.00	12.00	12.00	12.00	12.00	12.00
2+700	2700	2700	12.00	12.00	12.00	12.00	12.00	12.00
2+750	2750	2750	12.00	12.00	12.00	12.00	12.00	12.00
2+800	2800	2800	12.00	12.00	12.00	12.00	12.00	12.00
2+850	2850	2850	12.00	12.00	12.00	12.00	12.00	12.00
2+900	2900	2900	12.00	12.00	12.00	12.00	12.00	12.00
2+950	2950	2950	12.00	12.00	12.00	12.00	12.00	12.00
3+000	3000	3000	12.00	12.00	12.00	12.00	12.00	12.00
3+050	3050	3050	12.00	12.00	12.00	12.00	12.00	12.00
3+100	3100	3100	12.00	12.00	12.00	12.00	12.00	12.00
3+150	3150	3150	12.00	12.00	12.00	12.00	12.00	12.00
3+200	3200	3200	12.00	12.00	12.00	12.00	12.00	12.00
3+250	3250	3250	12.00	12.00	12.00	12.00	12.00	12.00
3+300	3300	3300	12.00	12.00	12.00	12.00	12.00	12.00
3+350	3350	3350	12.00	12.00	12.00	12.00	12.00	12.00
3+400	3400	3400	12.00	12.00	12.00	12.00	12.00	12.00
3+450	3450	3450	12.00	12.00	12.00	12.00	12.00	12.00
3+500	3500	3500	12.00	12.00	12.00	12.00	12.00	12.00
3+550	3550	3550	12.00	12.00	12.00	12.00	12.00	12.00
3+600	3600	3600	12.00	12.00	12.00	12.00	12.00	12.00
3+650	3650	3650	12.00	12.00	12.00	12.00	12.00	12.00
3+700	3700	3700	12.00	12.00	12.00	12.00	12.00	12.00
3+750	3750	3750	12.00	12.00	12.00	12.00	12.00	12.00
3+800	3800	3800	12.00	12.00	12.00	12.00	12.00	12.00
3+850	3850	3850	12.00	12.00	12.00	12.00	12.00	12.00
3+900	3900	3900	12.00	12.00	12.00	12.00	12.00	12.00
3+950	3950	3950	12.00	12.00	12.00	12.00	12.00	12.00
4+000	4000	4000	12.00	12.00	12.00	12.00	12.00	12.00
4+050	4050	4050	12.00	12.00	12.00	12.00	12.00	12.00
4+100	4100	4100	12.00	12.00	12.00	12.00	12.00	12.00
4+150	4150	4150	12.00	12.00	12.00	12.00	12.00	12.00
4+200	4200	4200	12.00	12.00	12.00	12.00	12.00	12.00
4+250	4250	4250	12.00	12.00	12.00	12.00	12.00	12.00
4+300	4300	4300	12.00	12.00	12.00	12.00	12.00	12.00
4+324.00	4324	4324	12.00	12.00	12.00	12.00	12.00	12.00

<p>ACRE SURVEYING & DEVELOPMENT</p>	CONSULTANTS		REPUBLIC OF THE PHILIPPINES		<p>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	DATE	SIGNATURE
	SURVEYED BY	DATE	SIGNATURE	PROJECT ENGINEER		SIGNATURE	
	CHECKED BY	DATE	SIGNATURE	PROJECT MANAGER		SIGNATURE	
	PROJECT MANAGER	DATE	SIGNATURE				

ROAD

STA 14645.00 CL ROAD

STA 44735.00 LT BANK CL CREEK

STA 44524.00 LEFT BANK CL CREEK

STA 44735.00 LT

STA 44555.00 CL BE

Lebanon Dike
7-1990
12.0m

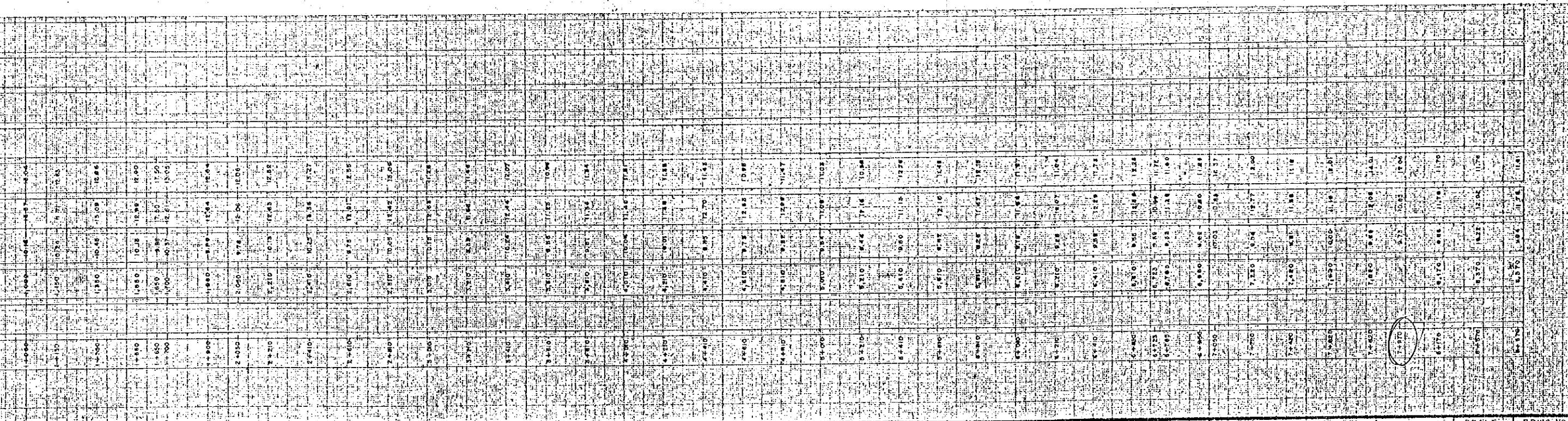
13.8

12.0

10.0

LEFT BANK
RIGHT BANK

CEASELINE
D-100 REC



CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE	
DATE	SIGNATURE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE
1-16-88	[Signature]			[Signature]	[Signature]	1-16-88	[Signature]
1-16-88	[Signature]			[Signature]	[Signature]	1-16-88	[Signature]
1-16-88	[Signature]			[Signature]	[Signature]	1-16-88	[Signature]

PLAN AND PROFILE

TAQUIG-PATEROS RIVER STA. 0+000 - STA. 8+070

SCALE: HORIZONTAL 1"=1000' VERTICAL 1"=100'

DRWG. NO. 1/2

ELEVATION
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
DATHUM LINE ELEV. 0.00

STATION 8+570.00

STATION 9+570.00

RIGHT BANK
LEFT BANK

END OF PROJ. STA. 9+570.00

CENTERLINE ELEV. 0.00

DATHUM LINE ELEV. 0.00

PROPOSED ELEVATION	RIVER BED GRADIENT	PARK LEVEL	HIGH WATER LEVEL	RIVER BED	RIGHT LEVEL	LEFT LEVEL	RIVER BED	CUMULATIVE DISTANCE	DISTANCE	STATION NO.
					11.81	11.80	11.80	0.00	0.00	8+570.00
					11.80	11.80	11.80	100.00	100.00	8+670.00
					11.78	11.78	11.78	200.00	200.00	8+770.00
					11.75	11.75	11.75	300.00	300.00	8+870.00
					11.72	11.72	11.72	400.00	400.00	8+970.00
					11.68	11.68	11.68	500.00	500.00	9+070.00
					11.65	11.65	11.65	600.00	600.00	9+170.00
					11.62	11.62	11.62	700.00	700.00	9+270.00
					11.58	11.58	11.58	800.00	800.00	9+370.00
					11.55	11.55	11.55	900.00	900.00	9+470.00
					11.52	11.52	11.52	1000.00	1000.00	9+570.00
					11.48	11.48	11.48	1100.00	1100.00	9+670.00
					11.45	11.45	11.45	1200.00	1200.00	9+770.00
					11.42	11.42	11.42	1300.00	1300.00	9+870.00
					11.38	11.38	11.38	1400.00	1400.00	9+970.00
					11.35	11.35	11.35	1500.00	1500.00	10+070.00
					11.32	11.32	11.32	1600.00	1600.00	10+170.00
					11.28	11.28	11.28	1700.00	1700.00	10+270.00
					11.25	11.25	11.25	1800.00	1800.00	10+370.00
					11.22	11.22	11.22	1900.00	1900.00	10+470.00
					11.18	11.18	11.18	2000.00	2000.00	10+570.00
					11.15	11.15	11.15	2100.00	2100.00	10+670.00
					11.12	11.12	11.12	2200.00	2200.00	10+770.00
					11.08	11.08	11.08	2300.00	2300.00	10+870.00
					11.05	11.05	11.05	2400.00	2400.00	10+970.00
					11.02	11.02	11.02	2500.00	2500.00	11+070.00
					10.98	10.98	10.98	2600.00	2600.00	11+170.00
					10.95	10.95	10.95	2700.00	2700.00	11+270.00
					10.92	10.92	10.92	2800.00	2800.00	11+370.00
					10.88	10.88	10.88	2900.00	2900.00	11+470.00
					10.85	10.85	10.85	3000.00	3000.00	11+570.00
					10.82	10.82	10.82	3100.00	3100.00	11+670.00
					10.78	10.78	10.78	3200.00	3200.00	11+770.00
					10.75	10.75	10.75	3300.00	3300.00	11+870.00
					10.72	10.72	10.72	3400.00	3400.00	11+970.00
					10.68	10.68	10.68	3500.00	3500.00	12+070.00
					10.65	10.65	10.65	3600.00	3600.00	12+170.00
					10.62	10.62	10.62	3700.00	3700.00	12+270.00
					10.58	10.58	10.58	3800.00	3800.00	12+370.00
					10.55	10.55	10.55	3900.00	3900.00	12+470.00
					10.52	10.52	10.52	4000.00	4000.00	12+570.00

TAGUIGH PATEROS STA 8+570 — STA 9+970

TIPAS RIVER STA 0+000 — S



ACRE SURVEYING
& DEVELOPMENT

CONSULTANTS

	DATE	SIGNATURE
SURVEYED BY:	Jul 16, 88	<i>[Signature]</i>
CHECKED BY:	8-12-88	<i>[Signature]</i>
PROJECT MANAGER	8-14-88	<i>[Signature]</i>

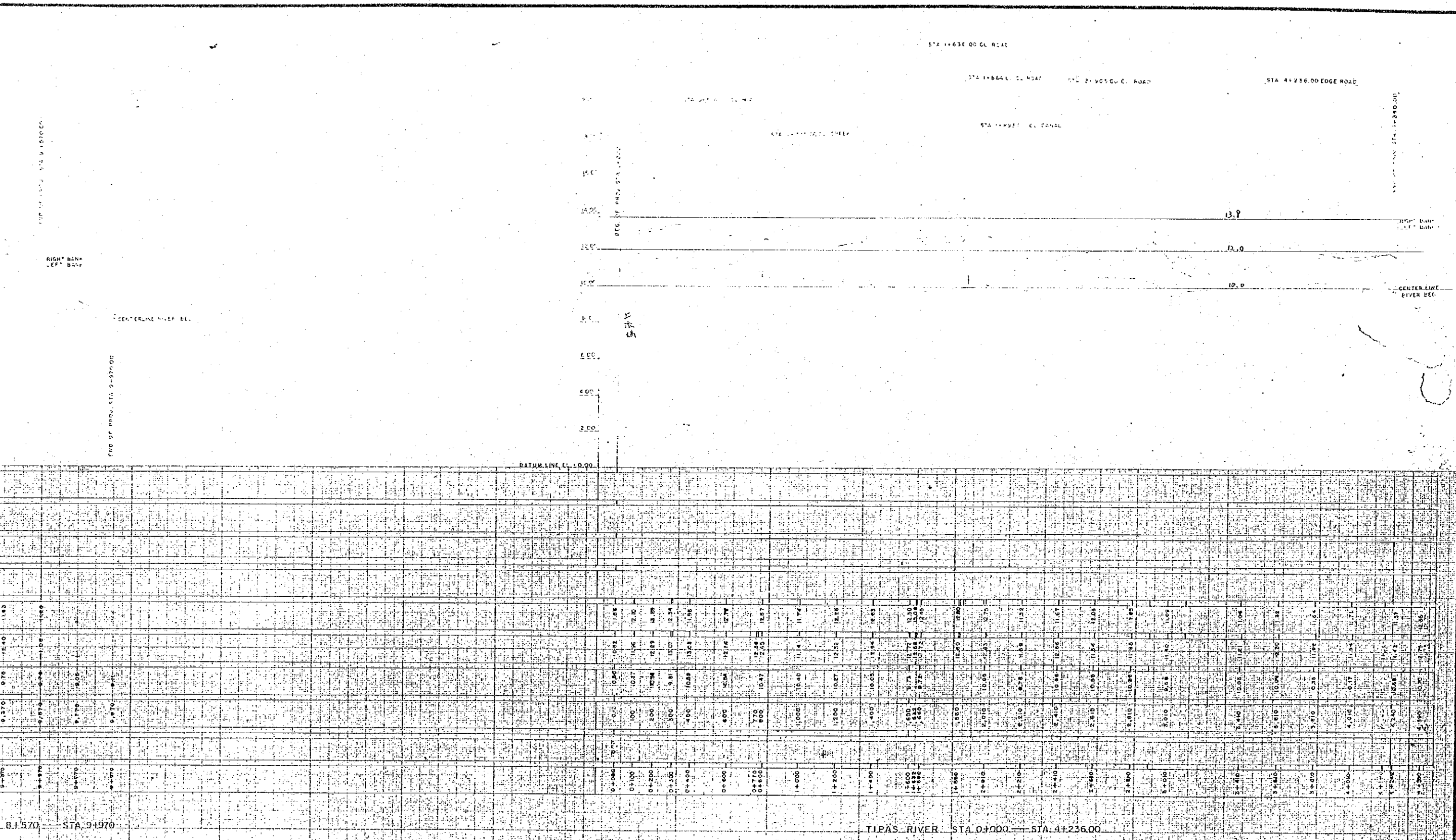


DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

REPUBLIC OF THE PHILIPPINES

PROJECT ENGINEER
PROJECT MANAGER

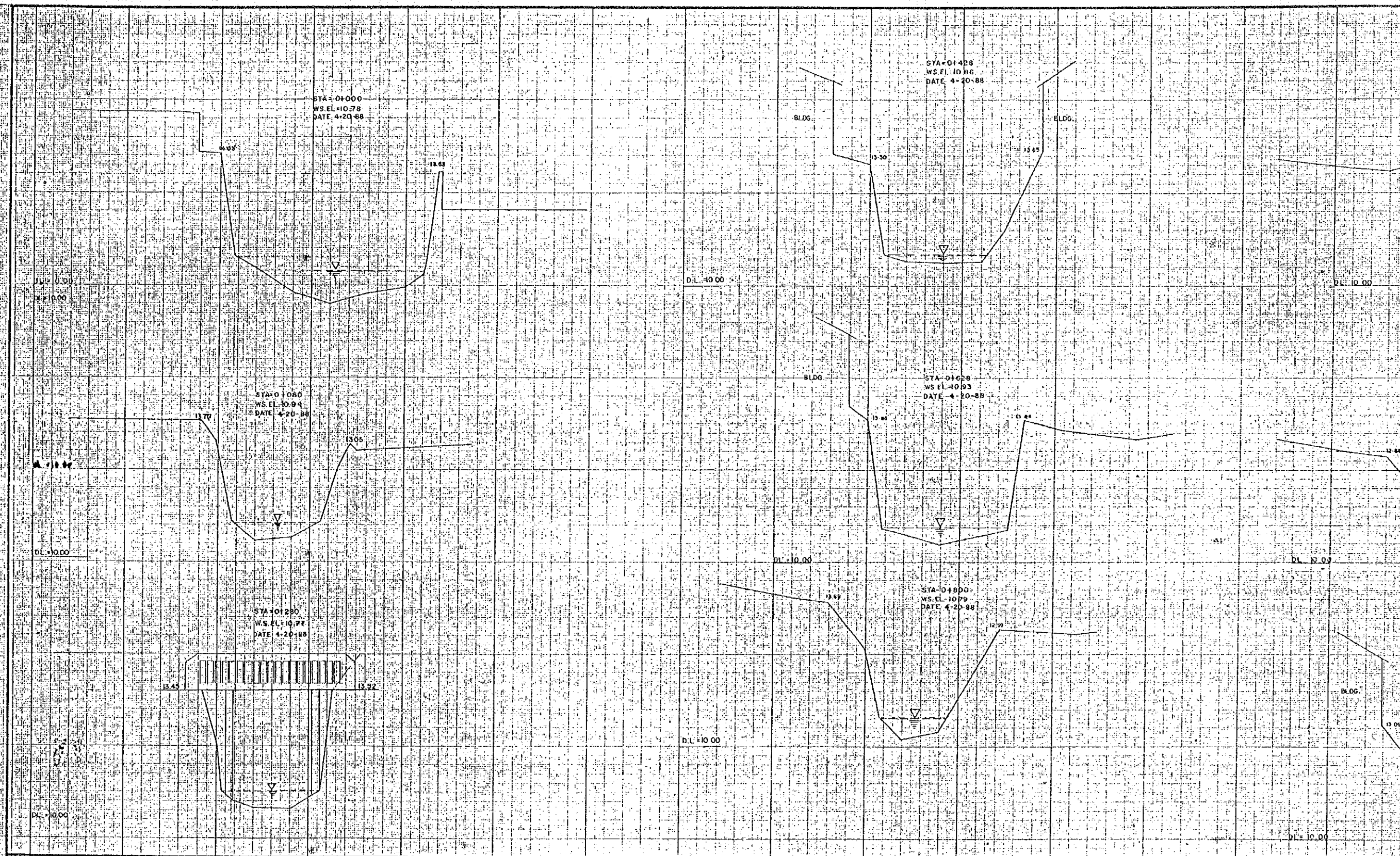
DATE	SIGNATURE
	<i>[Signature]</i>
	<i>[Signature]</i>




CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE		DRWG. NO.	
DATE	SIGNATURE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE	HORIZONTAL	VERTICAL		
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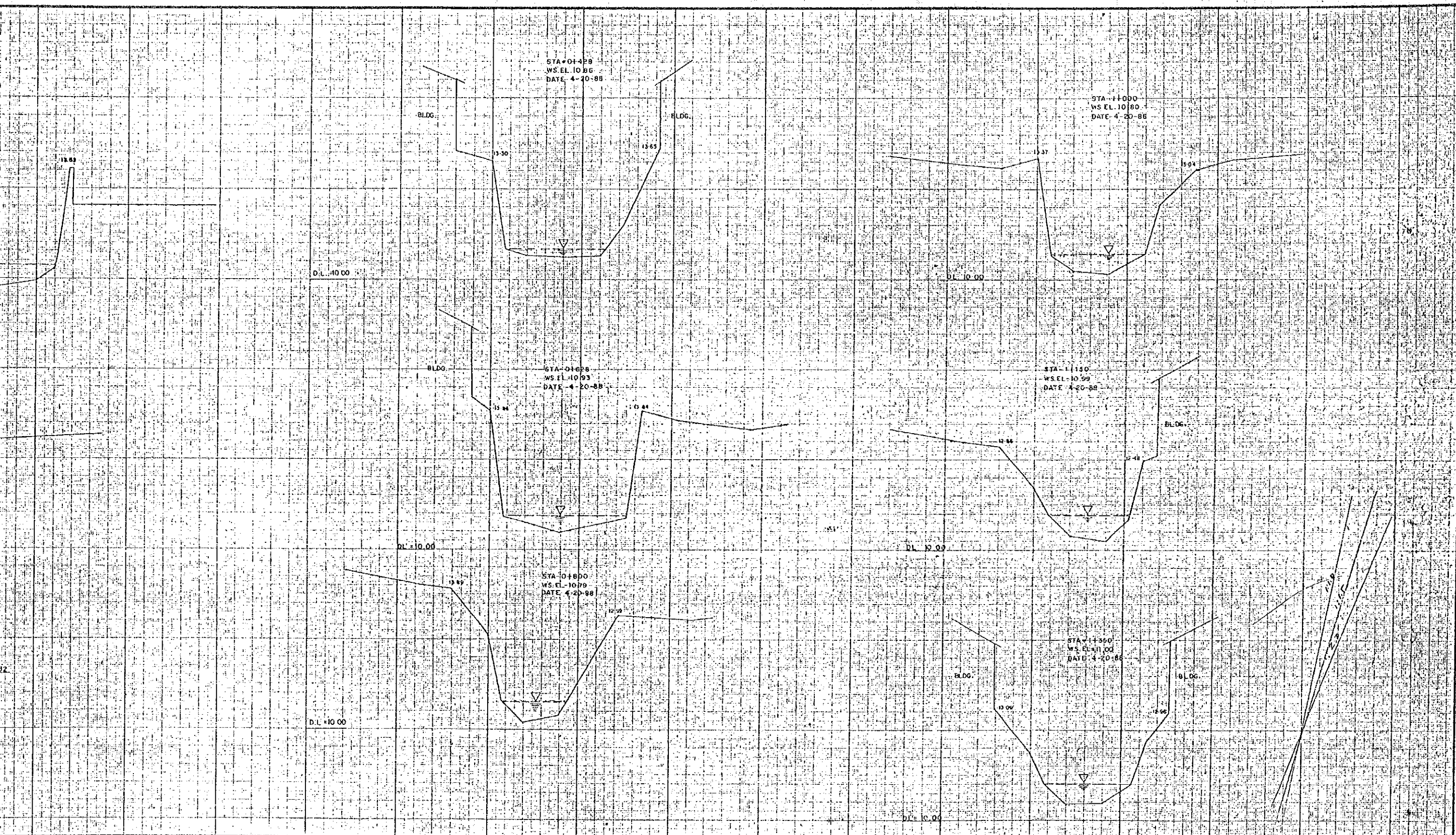
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 <p>ACRE SURVEYING & DEVELOPMENT</p>	CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE	
	SURVEYED BY:	DATE	SIGNATURE	DEPARTMENT OF	PROJECT ENGINEER	SIGNATURE
	CHECKED BY:	DATE	SIGNATURE	PUBLICWORKS AND HIGHWAYS	PROJECT MANAGER	SIGNATURE
	PROJECT MANAGER	DATE	SIGNATURE			SIGNATURE

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Master piece
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CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE		DWG. NO.	
DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE	DATE	SIGNATURE	HORIZONTAL	VERTICAL	1/6	
8-13-88	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	4-20-88	<i>[Signature]</i>	4-20-88	<i>[Signature]</i>	1:250	1:50		
8-14-88	<i>[Signature]</i>										



DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

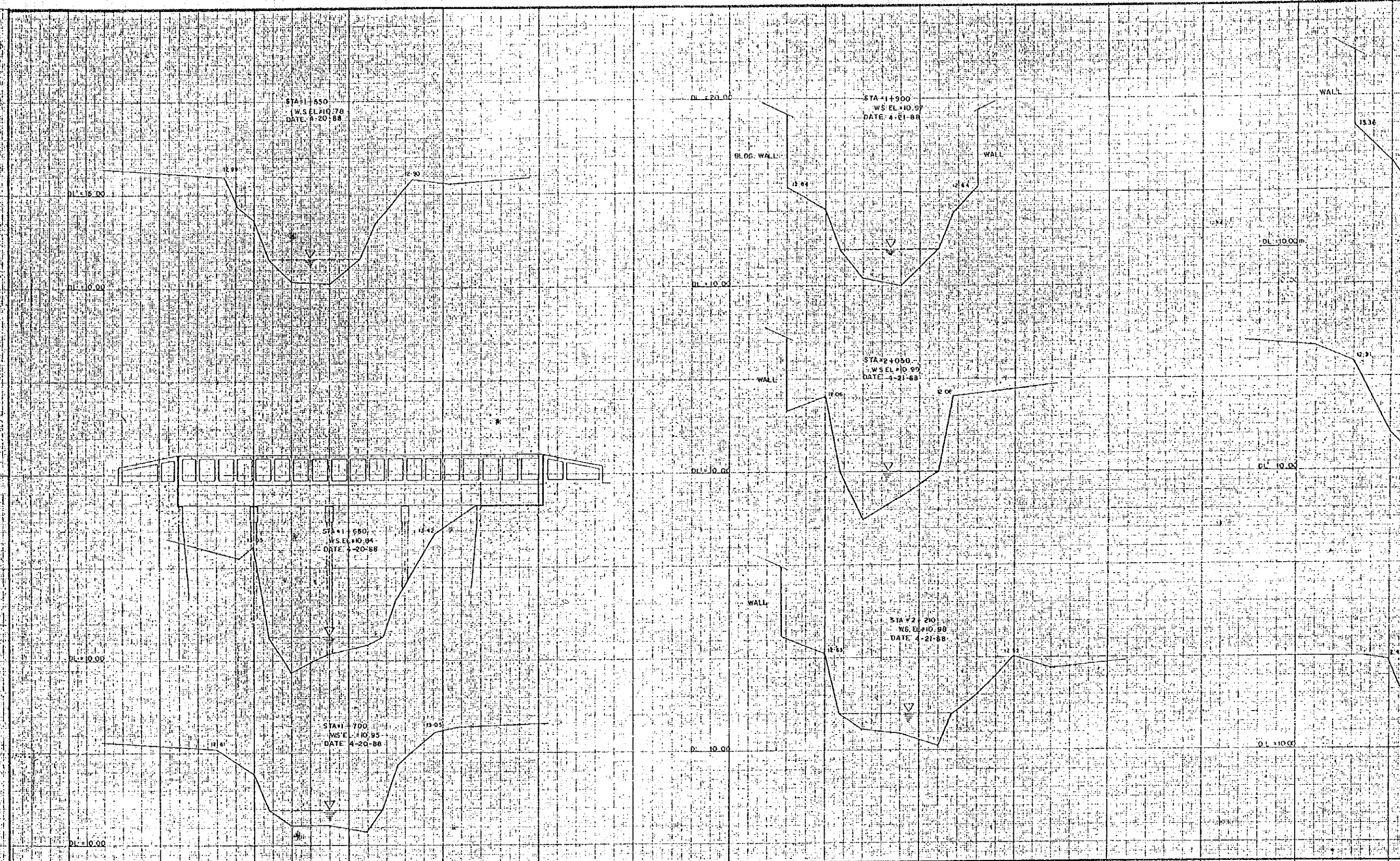
PROJECT ENGINEER
PROJECT MANAGER


NONITO P. ANDAYA
EUGENIO MANALO

CROSS SECTION
TAGUIG-PATEROS RIVER

STA 01000 - STA 11360

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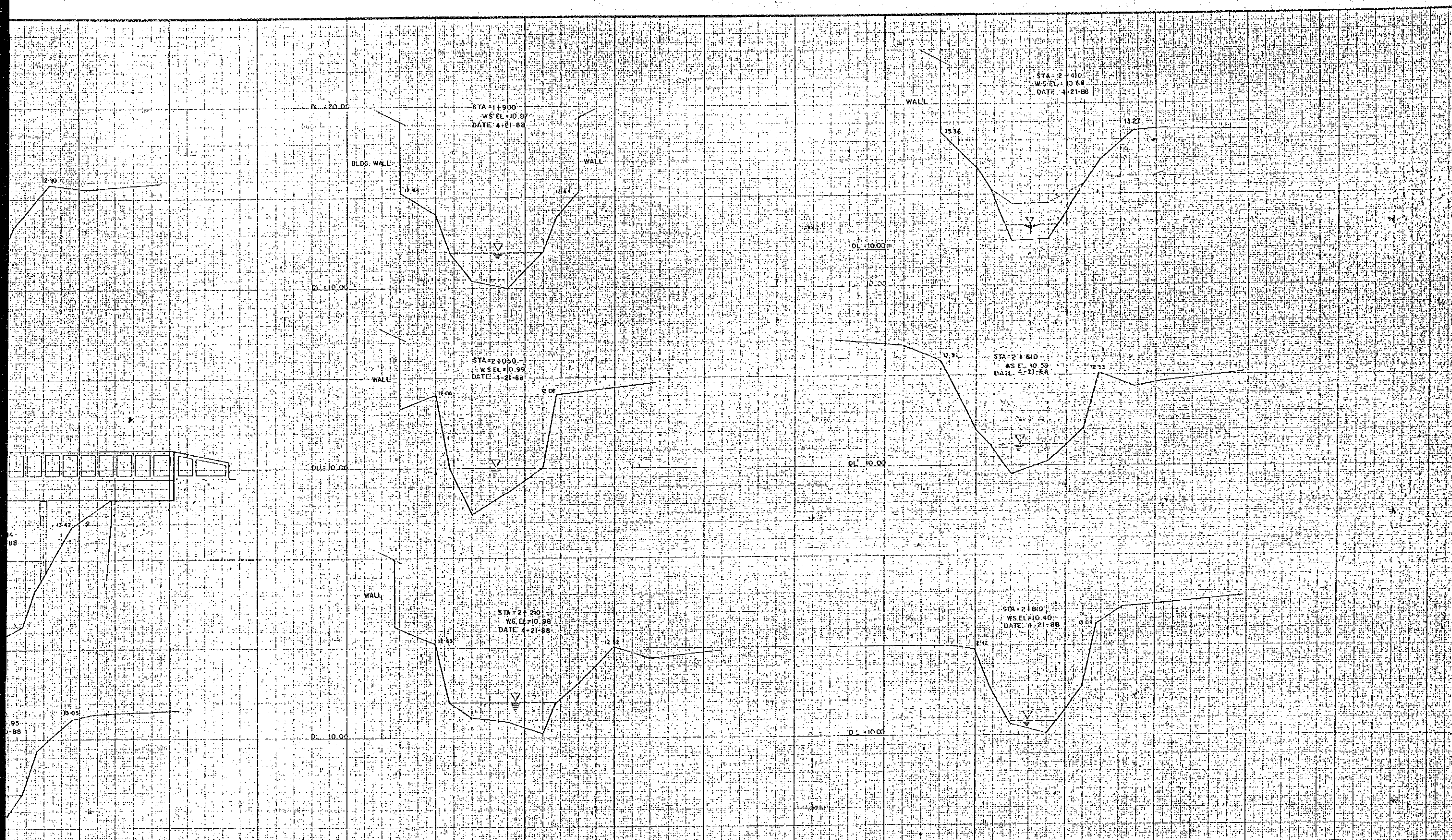


 ACRE SURVEYING & DEVELOPMENT	CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE	
	SURVEYED BY	DATE	SIGNATURE	DEPARTMENT OF	PROJECT ENGINEER	DATE
	CHECKED BY	DATE	SIGNATURE	PUBLIC WORKS AND HIGHWAYS	PROJECT MANAGER	DATE
	PROJECT MANAGER	DATE	SIGNATURE			DATE

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CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE		DRWG. NO.	
DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE	DATE	SIGNATURE	HORIZONTAL	VERTICAL	2/5	
4-21-88	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	4-21-88	<i>[Signature]</i>	4-21-88	<i>[Signature]</i>	1:50	1:50		
8-14-88	<i>[Signature]</i>										

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A-11-5