

M ACRE SURVEYING
& DEVELOPMENT

CONSULTANTS	
DATE	SIGNATURE
SURVEYED BY: 7-1-88	<i>[Signature]</i>
CHECKED BY: 8-12-88	<i>[Signature]</i>
PROJECT MANAGER: 8-14-88	<i>[Signature]</i>

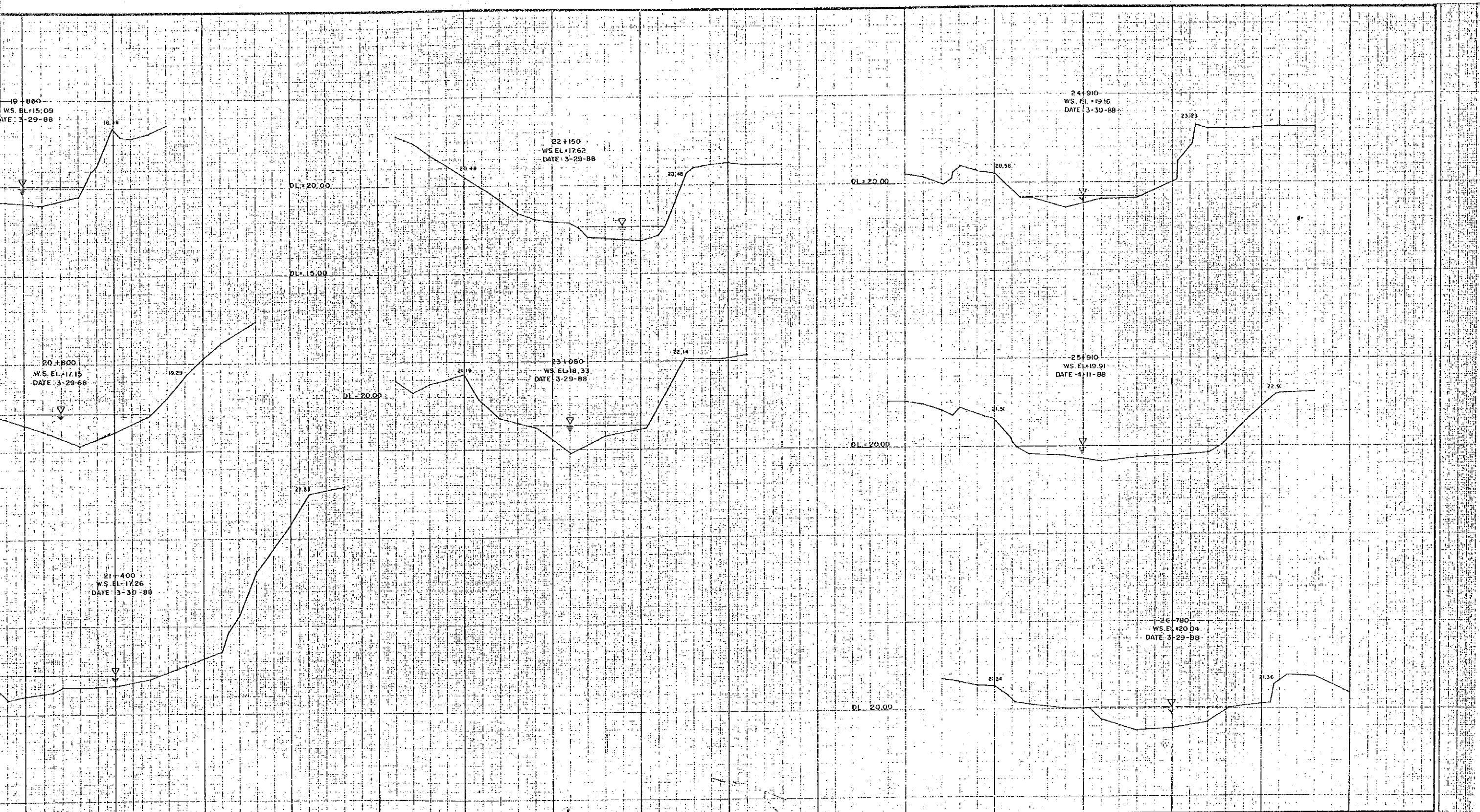


REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

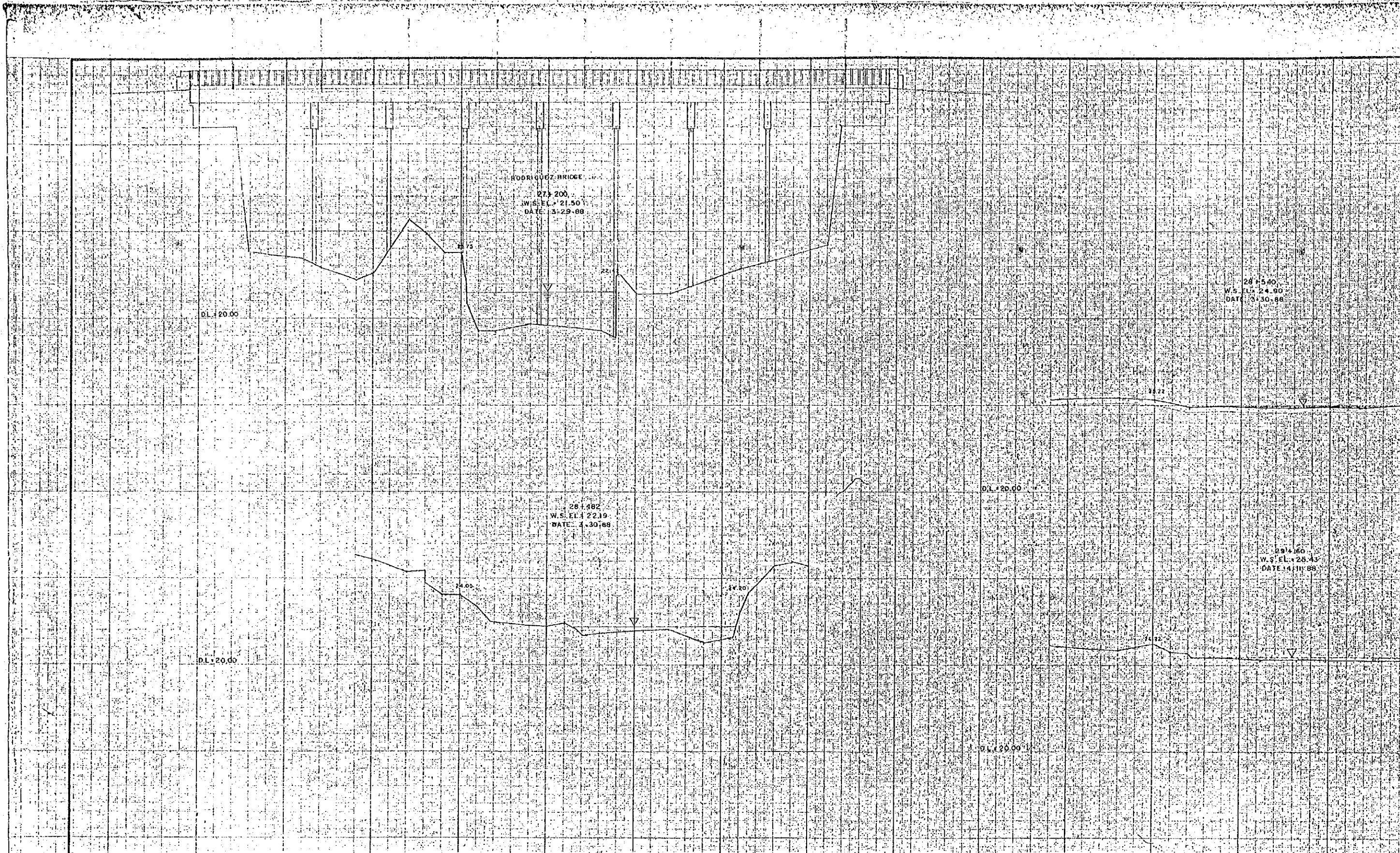
DATE	SIGNATURE
PROJECT ENGINEER	<i>[Signature]</i>
PROJECT MANAGER	<i>[Signature]</i>


Master piece
Printed in Japan

Scale: 1cm = 10m
Sheet No. 3 of 3




CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE		DRWG. NO.		
DATE	SIGNATURE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT ENGINEER	PROJECT MANAGER	 NORITO F. PANO, JR. EUGENIO D. MANALO		CROSS SECTION MARIKINA RIVER STA 19+850 - STA 26+780		HORIZONTAL 1 : 500	VERTICAL 1 : 100	10/11

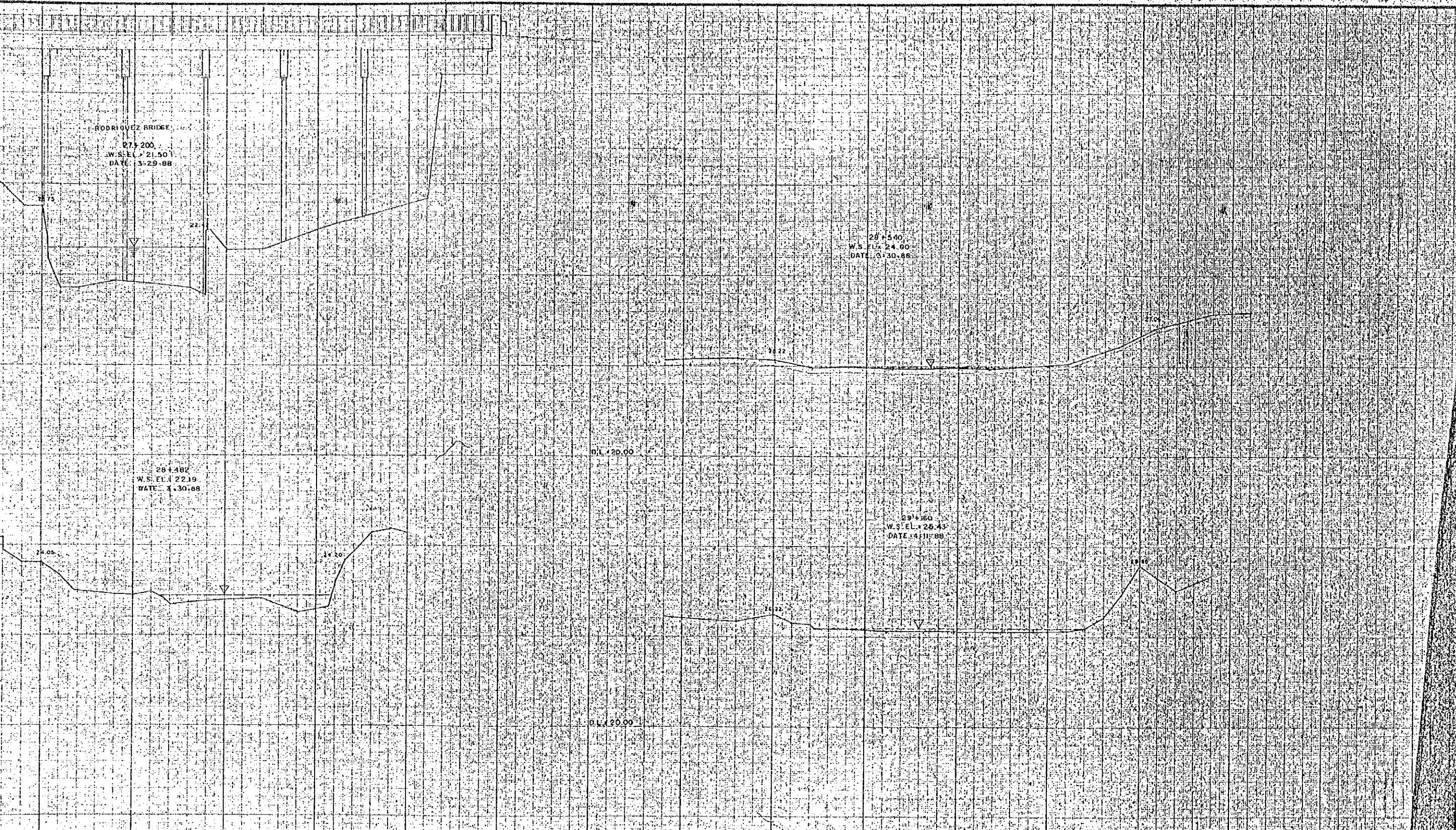


 **ACRE SURVEYING
& DEVELOPMENT**

CONSULTANTS	
DATE	SIGNATURE
SURVEYED BY: 7/14/88	<i>Charles...</i>
CHECKED BY: 8/12/88	<i>[Signature]</i>
PROJECT MANAGER: 8/18/88	<i>[Signature]</i>

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

DATE	SIGNATURE
PROJECT ENGINEER	<i>[Signature]</i>
PROJECT MANAGER	<i>[Signature]</i>
L	<i>[Signature]</i>



CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE	
DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE	MONITO P. ANDAL		HORIZONTAL	VERTICAL
8/2/88	<i>[Signature]</i>				<i>[Signature]</i>	EUGENIO MAVALD		1:400	1:100
8/11/88	<i>[Signature]</i>								

DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

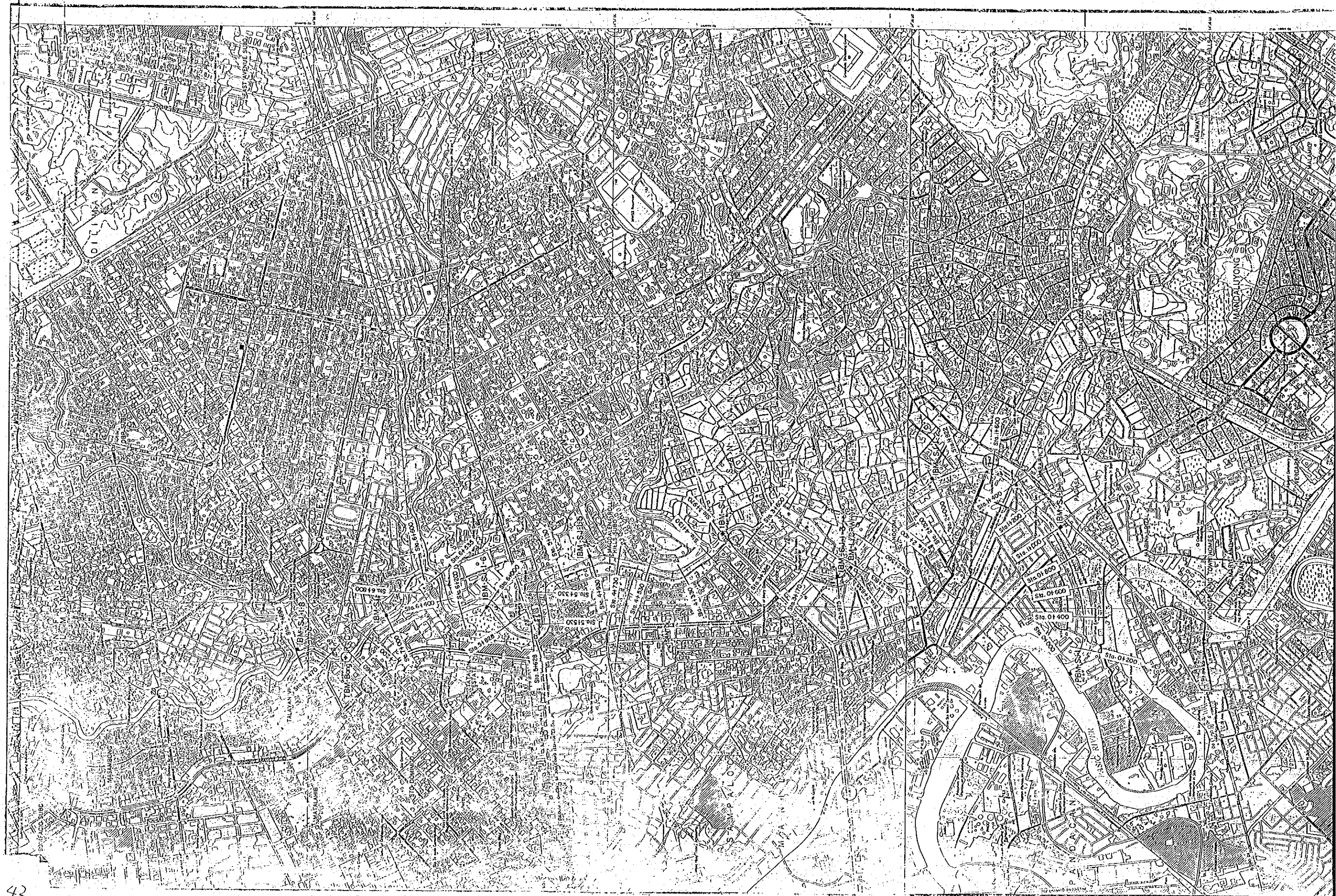
CROSS SECTION
MAR KINA RIVER
STA 27+200 - STA 29+160

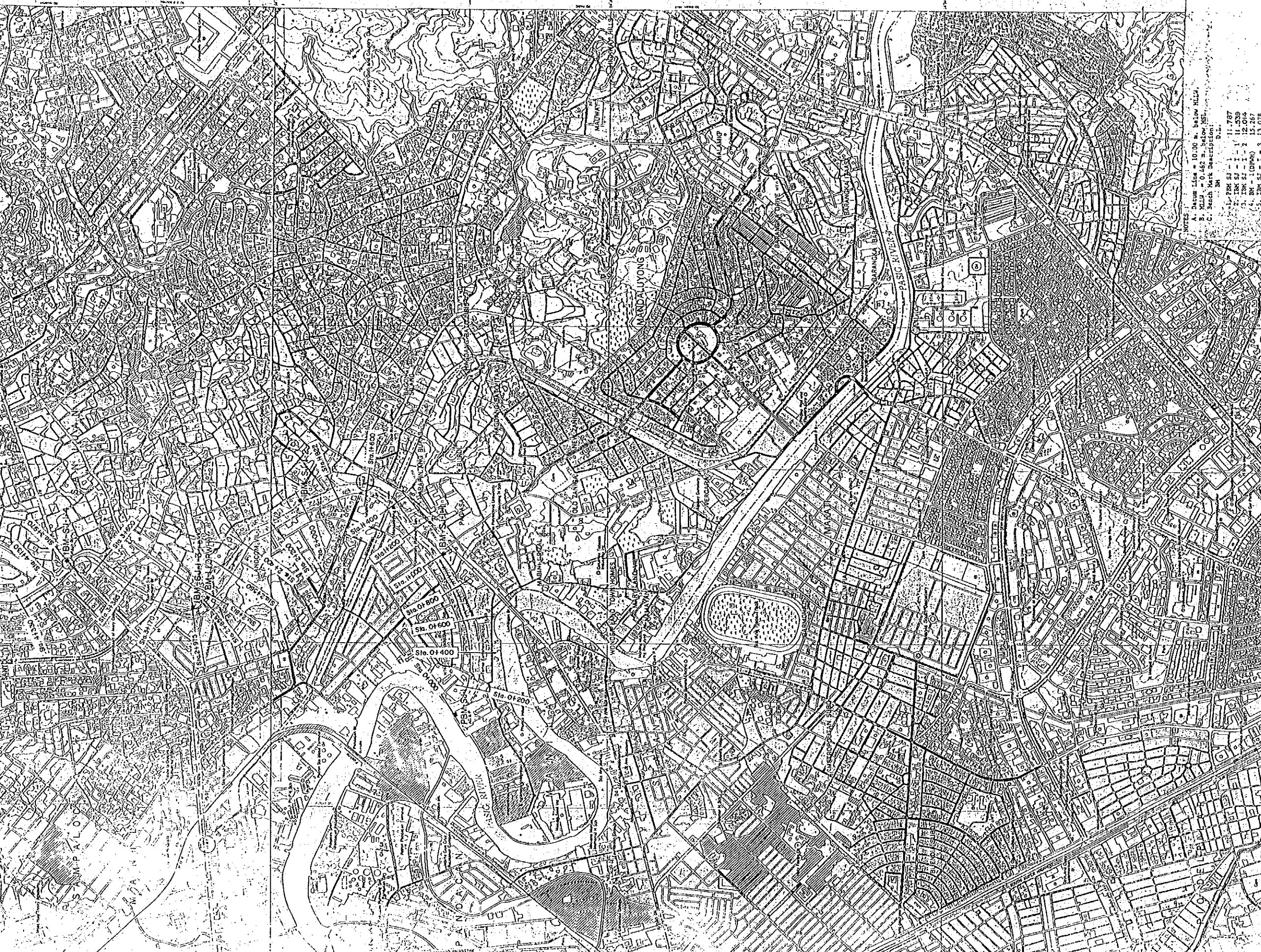
Master Piece
1/1/1988

Master Piece
1/1/1988

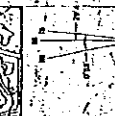
A-4 SAN JUAN RIVER

INDEX MAP	(1 SHEET)
LONGITUDINAL PROFILE	(1 SHEET)
CROSS SECTION	(10 SHEET)





NOTES
 A. Datum Line = 10.00 m. below MLLW.
 B. MLLW = 0.457 m. below M.S.L.
 C. Bench Mark Description:
 D.L.
 1. PER SJ - 1 - 11.787
 2. BM SJ - 1 - 1 - 11.539
 3. BM SJ - 1 - 1 - 12.014
 4. BM SJ (UPW) - 1 - 15.257
 5. BM SJ - 1 - 1 - 16.376
 6. BM SJ - 1 - 1 - 16.376
 7. BM SJ - 1 - 1 - 11.969
 8. BM SJ - 1 - 1 - 16.157
 9. BM SJ - 1 - 1 - 16.698
 10. BM SJ - 1 - 1 - 13.960
 11. BM SJ - 1 - 1 - 48.708
 D. Bench Mark Description:
 CR 2 : Old BGS BM in Mandaluyong, Metro Manila at the SE end of the sidewalk at the SE falling of the overpass/underpass at the intersection of the San Juan River and Shaw Drive. Mark the corner of the sidewalk at the present utility & structure. Project CR No-2 1977.



SCALE: 1:15,000
 UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 LONG 21 CLARKE SPHEROID 1846-4300M DATUM
 VERTICAL DATUM: MSL FOR HEIGHTS MLEW FOR DEPTHS
 CONTOUR INTERVAL: 4 METERS

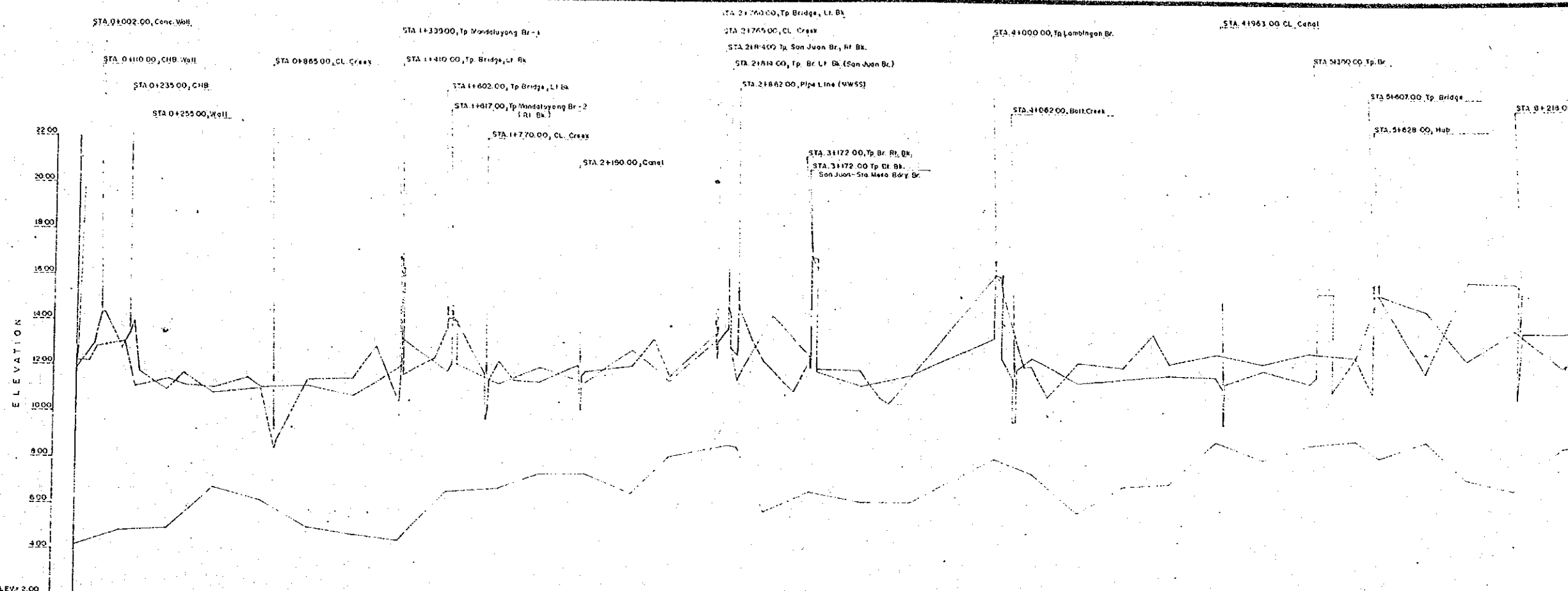
**ACRE SURVEYING
 & DEVELOPMENT**

CONSULTANTS	SIGNATURE
SURVEYED BY	<i>Charles M. ...</i>
CHECKED BY	
PROJECT MANAGER	

INDEX-MAP
 SAN JUAN RIVER

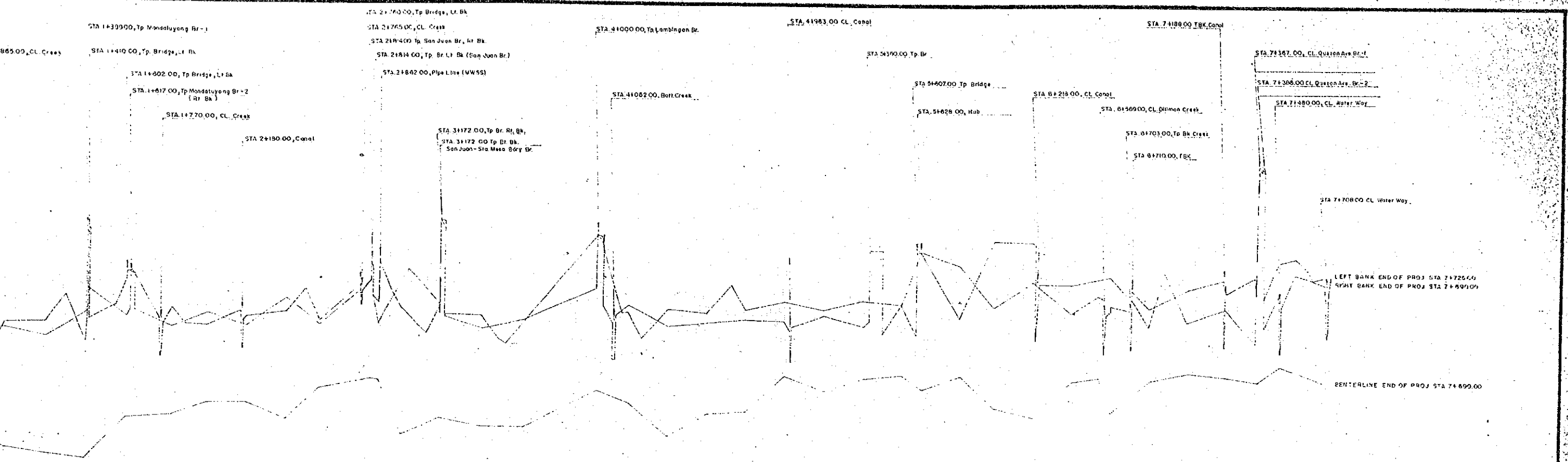
DEPARTMENT OF PUBLIC WORKS - HIGHWAYS	SHEET NO.
PROJECT ENGINEER	SIGNATURE
PROJECT MANAGER	PROJECT NO.
	1/1

SAN JUAN RIVER



STATION NO.	DISTANCE	CUMULATIVE DISTANCE	EXISTING ELEVATION			PROPOSED ELEVATION		
			RIVER BED	LEFT LEVÉE	RIGHT LEVÉE	RIVER BED	HIGH WATER LEVEL	BANK LEVEL
0+000	0.00	0.00	4.17	11.79	12.24			
0+200	200.00	200.00	4.81	12.92	13.37			
0+400	400.00	400.00	4.92	13.76	14.31			
0+600	600.00	600.00	5.75	14.77	15.47			
0+800	800.00	800.00	6.22	15.93	16.74			
1+000	1000.00	1000.00	6.00	17.24	18.17			
1+200	1200.00	1200.00	4.77	18.71	19.74			
1+400	1400.00	1400.00	4.53	20.34	21.44			
1+600	1600.00	1600.00	4.70	22.11	23.24			
1+800	1800.00	1800.00	6.64	24.01	25.14			
2+000	2000.00	2000.00	7.51	26.04	27.14			
2+200	2200.00	2200.00	7.54	28.21	29.34			
2+400	2400.00	2400.00	6.72	30.54	31.64			
2+600	2600.00	2600.00	6.33	33.04	34.14			
2+800	2800.00	2800.00	6.87	35.74	36.84			
3+000	3000.00	3000.00	8.76	38.64	40.74			
3+200	3200.00	3200.00	8.01	41.74	44.84			
3+400	3400.00	3400.00	6.91	45.04	49.14			
3+600	3600.00	3600.00	6.46	48.54	53.64			
3+800	3800.00	3800.00	6.37	52.24	58.34			
4+000	4000.00	4000.00	7.73	56.14	63.24			
4+200	4200.00	4200.00	6.03	60.24	68.34			
4+400	4400.00	4400.00	7.21	64.54	73.64			
4+600	4600.00	4600.00	7.23	69.04	79.14			
4+800	4800.00	4800.00	9.10	73.74	84.84			
5+000	5000.00	5000.00	8.39	78.64	90.74			
5+200	5200.00	5200.00	9.04	83.74	96.84			
5+400	5400.00	5400.00	9.23	89.04	103.14			
5+600	5600.00	5600.00	8.46	94.54	109.64			
5+800	5800.00	5800.00	9.15	100.24	116.34			
6+000	6000.00	6000.00	7.95	106.14	123.24			
6+200	6200.00	6200.00	7.11	112.24	130.34			
6+400	6400.00	6400.00	6.44	118.54	137.64			
6+600	6600.00	6600.00	5.84	125.04	145.14			
6+800	6800.00	6800.00	5.20	131.74	152.84			
7+000	7000.00	7000.00	4.54	138.64	160.74			
7+200	7200.00	7200.00	3.87	145.74	168.84			
7+400	7400.00	7400.00	3.19	153.04	177.14			
7+600	7600.00	7600.00	2.50	160.54	185.64			
7+800	7800.00	7800.00	1.80	168.24	194.34			
8+000	8000.00	8000.00	1.09	176.14	203.24			
8+200	8200.00	8200.00	0.37	184.24	212.34			

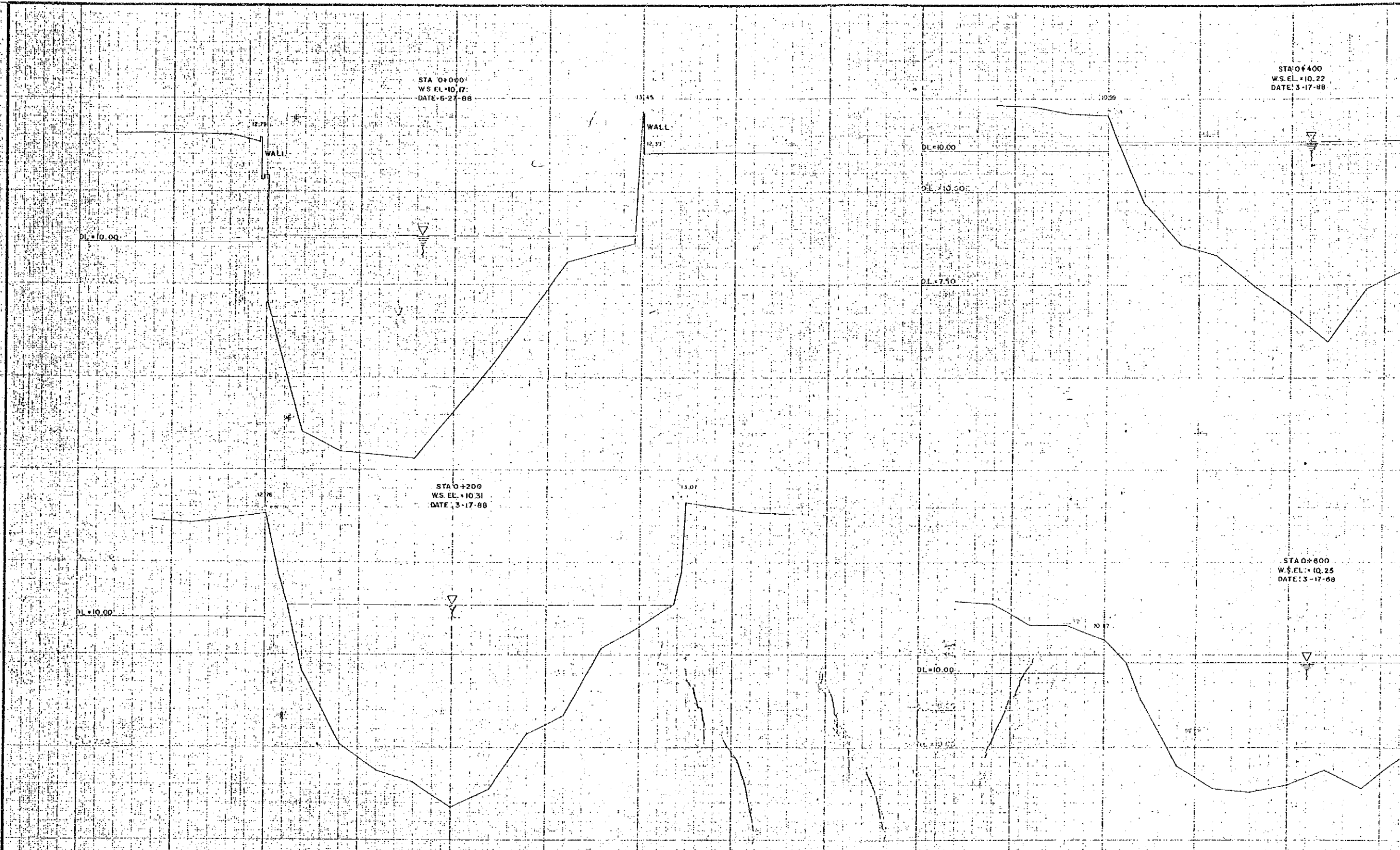
<p>ACRE SURVEYING & DEVELOPMENT</p>	CONSULTANTS		REPUBLIC OF THE PHILIPPINES	
	SURVEYED BY:	DATE	SIGNATURE	<p>DEPARTMENT OF PUBLIC WORKS & HIGHWAYS</p>
	CHECKED BY:	8/18/88	<i>[Signature]</i>	
PROJECT ENGINEER:	8/18/88	<i>[Signature]</i>		
			PROJECT ENGINEER	<p>NONITO P. AND</p>
			PROJECT MANAGER	



Station	Elevation	Grade (%)	Vertical Curve Data
1+200	11.95	4.77	
1+400	12.34	4.53	
1+600	12.48	6.70	
1+800	12.33	6.44	
2+000	11.53	7.51	
2+200	11.49	7.94	
2+400	11.52	6.72	
2+600	12.43	9.33	
2+800	11.91	8.87	
3+000	11.87	8.76	
3+200	13.42	6.04	
3+400	12.42	11.23	
3+600	14.46	12.30	
3+800	11.23	16.56	
4+000	11.47	11.47	
4+200	10.85	10.85	
4+400	10.71	11.83	
4+600	11.30	11.04	
4+800	11.03	12.20	
5+000	12.73	12.21	
5+200	13.74	11.97	
5+400	12.42	11.90	
5+600	11.42	8.39	
5+800	12.00	5.04	
6+000	11.58	13.91	
6+200	13.04	12.71	
6+400	14.56	14.56	
6+600	13.28	13.28	
6+800	12.74	14.30	
7+000	13.57	11.78	
7+200	12.90	14.19	
7+400	13.44	12.04	
7+600	15.44	12.94	
7+800	17.31	16.83	
8+000	15.02	13.42	
8+200	15.23	14.46	
8+400	14.74	14.80	
8+600	14.11	14.34	
8+800	13.52	14.50	
9+000	14.30	14.50	

DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
 PROJECT ENGINEER: *[Signature]*
 PROJECT MANAGER: *[Signature]*
 DATE: *[Date]*
 SIGNATURE: *[Signature]*
 TITLE: *[Title]*
 SCALE: HORIZONTAL 1:10,000, VERTICAL 1:1,000
 PLAN AND PROFILE
 SAN JUAN RIVER STA 0+000 - STA 7+690
 SHEET NO. A-4-2


Point - 00010
 la



 **ACRE SURVEYING
& DEVELOPMENT**

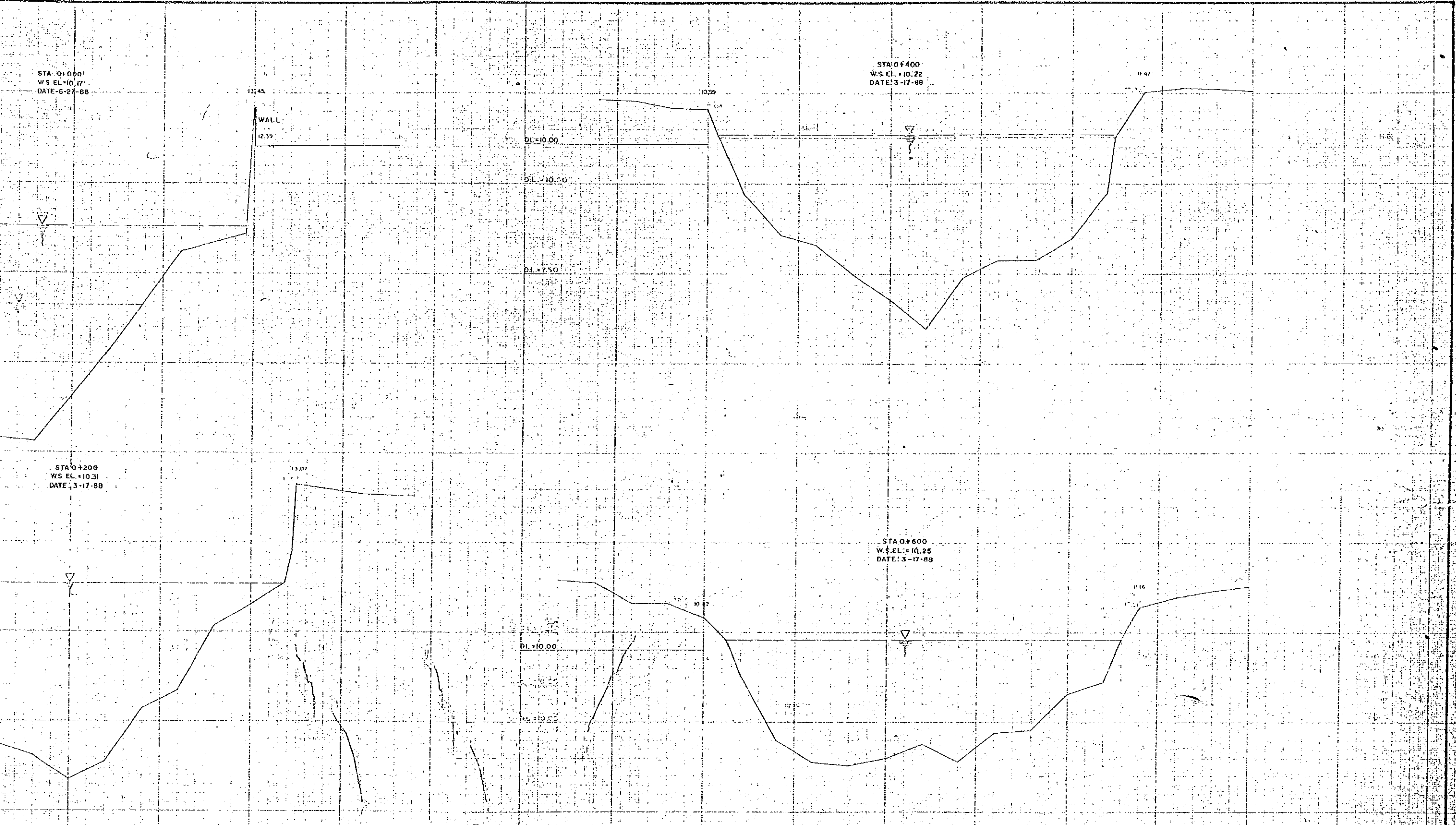
CONSULTANTS

	DATE	SIGNATURE
SURVEYED BY	Jul 26 '88	<i>Charles...</i>
CHECKED BY	8-2-88	<i>[Signature]</i>
PROJECT MANAGER	8-14-88	<i>[Signature]</i>

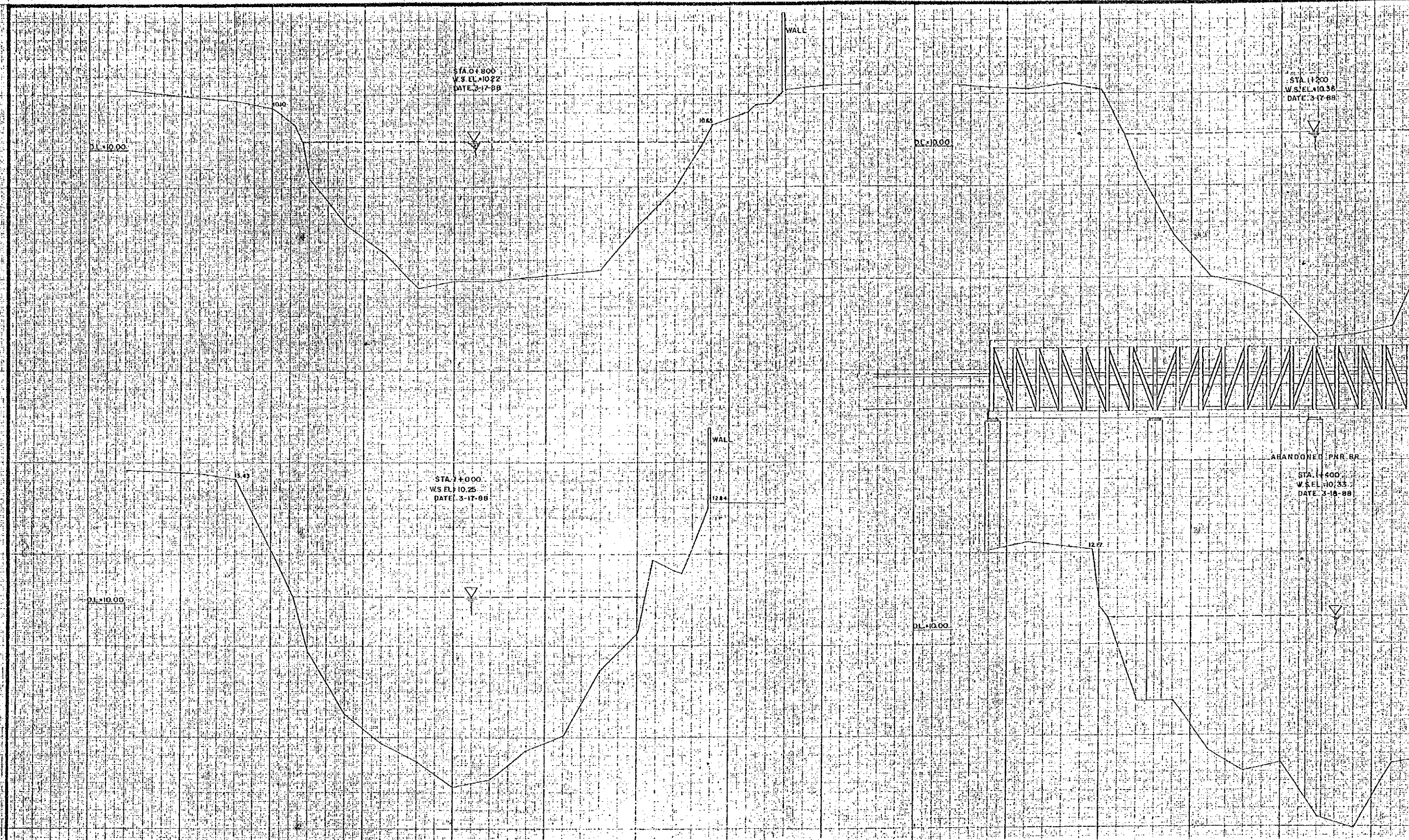
 **DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS**

REPUBLIC OF THE PHILIPPINES

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



CONSULTANTS DATE: 1-18-88 SIGNATURE: <i>[Signature]</i>		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		DATE: 3-17-88 SIGNATURE: <i>[Signature]</i> PROJECT ENGINEER: NORITO... PROJECT MANAGER: EUGENIO...		SCALE: DRWG. NO.	
CROSS SECTION SAN JUAN RIVER STA. 0+000 - STA. 0+600				HORIZONTAL: 1" = 250' VERTICAL: 1" = 50'		1/10	



**ACRE SURVEYING
& DEVELOPMENT**

CONSULTANTS	
DATE	SIGNATURE
SURVEYED BY: 11-28-88	<i>Chandela</i>
CHECKED BY: 8-12-88	<i>[Signature]</i>
PROJECT MANAGER: 1-17-88	<i>[Signature]</i>



REPUBLIC OF THE PHILIPPINES
**DEPARTMENT OF
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DATE	SIGNATURE
	<i>[Signature]</i>
	<i>[Signature]</i>