

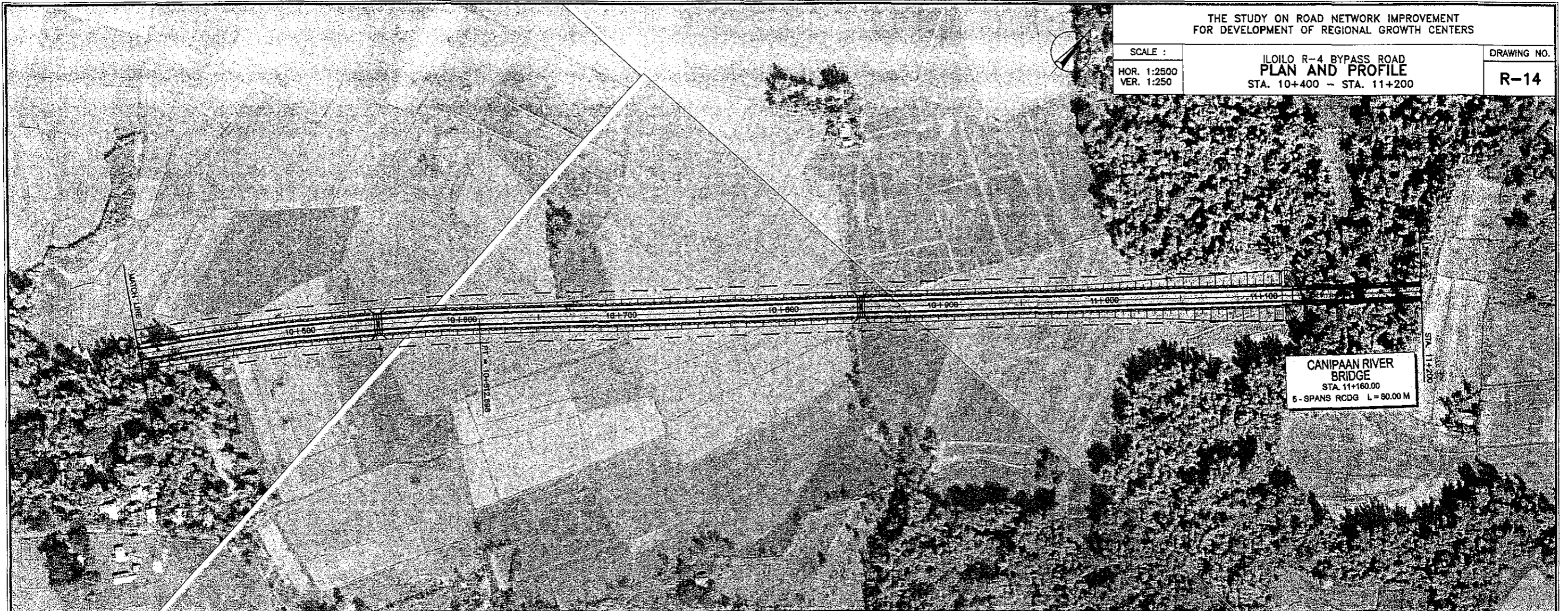
THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
HOR. 1:2500
VER. 1:250

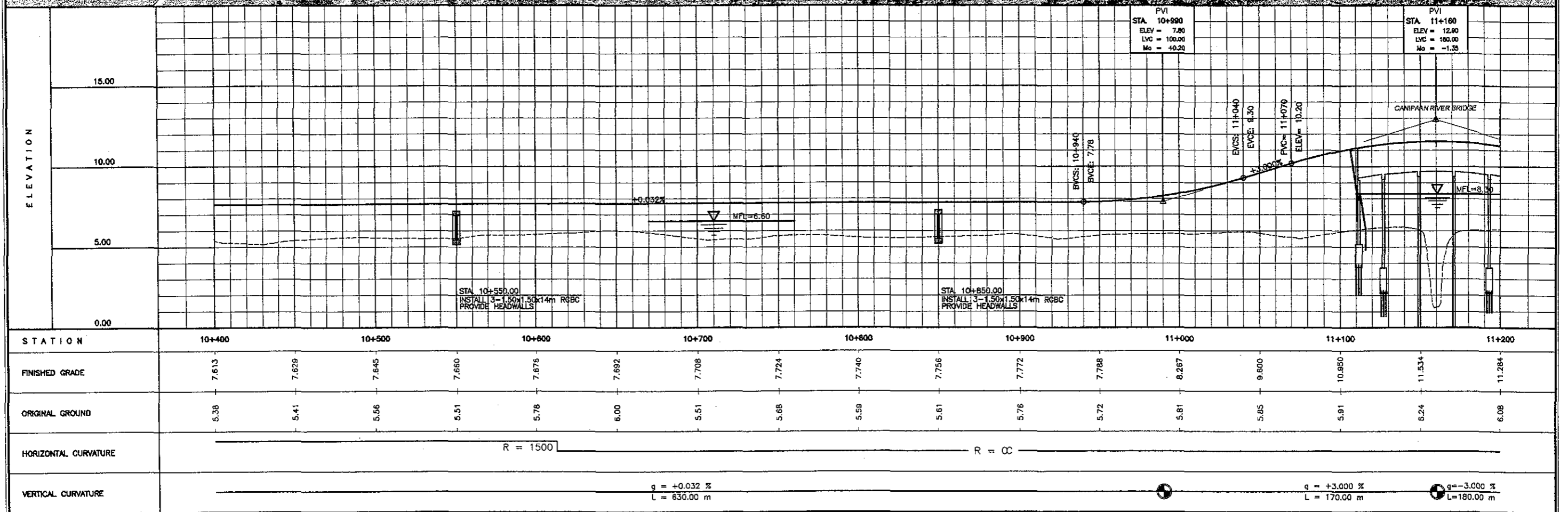
ILOILO R-4 BYPASS ROAD
PLAN AND PROFILE
STA. 10+400 ~ STA. 11+200

DRAWING NO.

R-14



CANIPAAN RIVER BRIDGE
STA. 11+160.00
5- SPANS RCDG L= 80.00 M



PVI
STA. 10+990
ELEV = 7.80
LVC = 100.00
Mc = -0.20

PVI
STA. 11+160
ELEV = 12.80
LVC = 160.00
Mc = -1.35

STA. 10+550.00
INSTALL 3-1.50x1.50x14m RCBC
PROVIDE HEADWALLS

STA. 10+850.00
INSTALL 3-1.50x1.50x14m RCBC
PROVIDE HEADWALLS

ENCSE: 10+940
EVCSE: 7/78

ENCSE: 11+040
EVCSE: 8/30

ENCSE: 11+070
EVCSE: 10/20

CANIPAAN RIVER BRIDGE

MFL=8.30

ELEMENTS OF CURVES

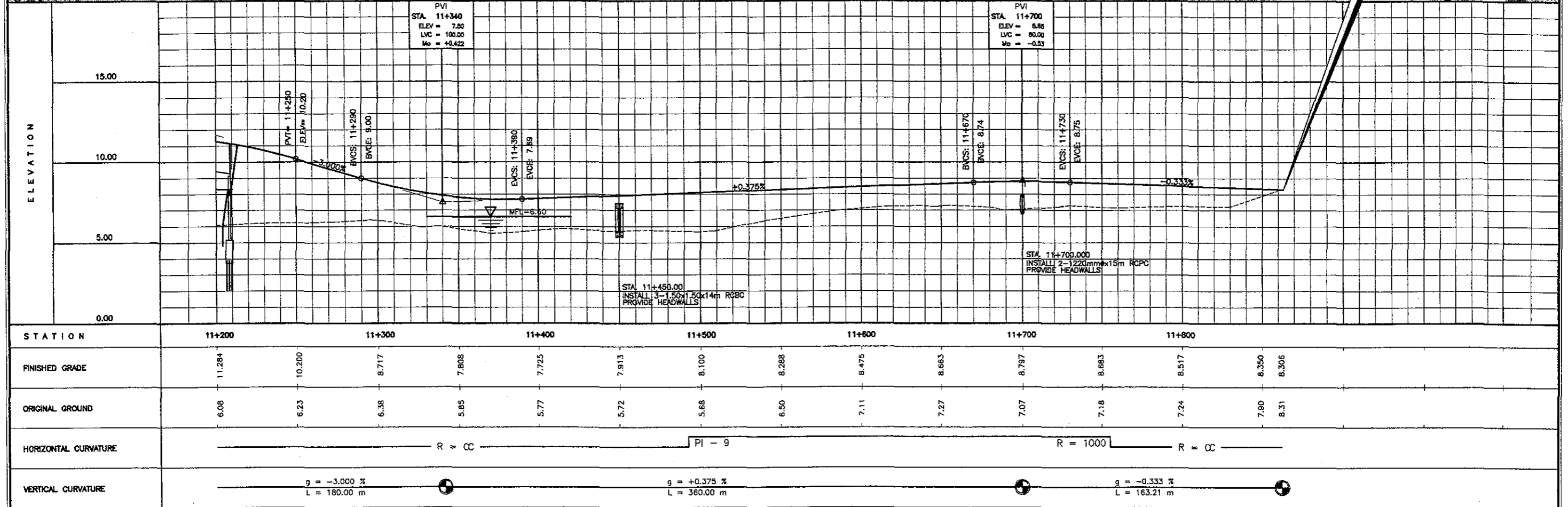
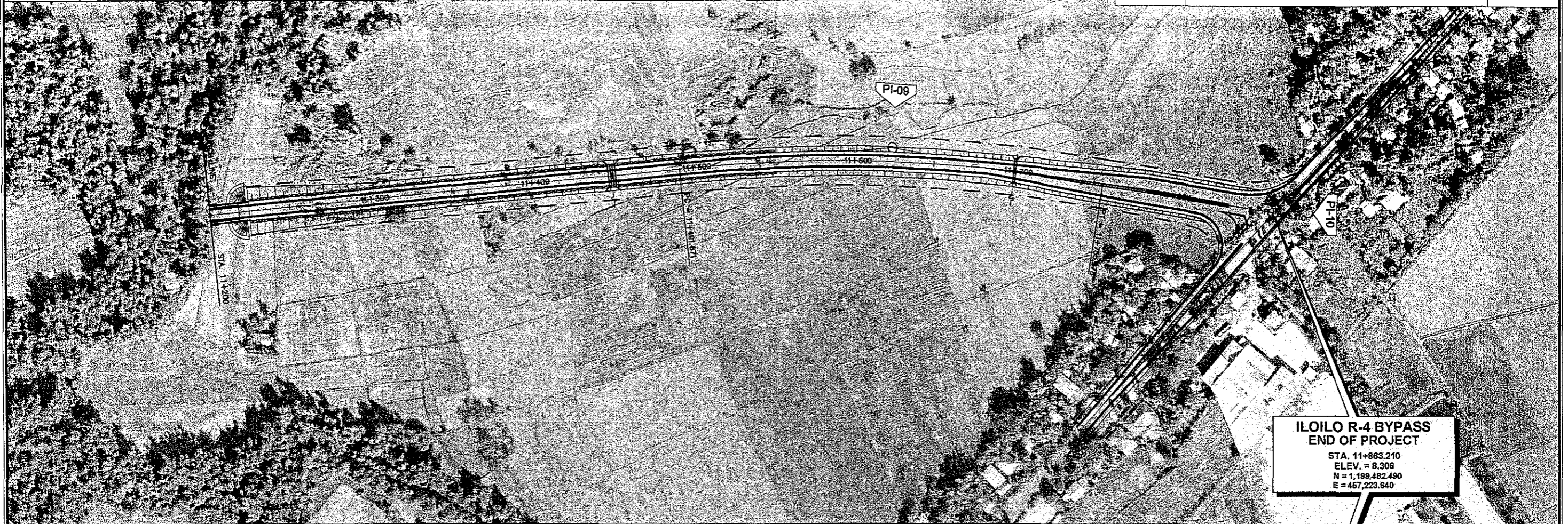
PI NO.	STATION	COORDINATES		I	R	T	Lc	Es	V (kph)
		NORTHING	EASTING						
9	11 + 624.545	1,199,366.400	457,013.350	15° 06' 54.1" R	1000.00	132.67	263.81	8.76	80.00
10	11 + 863.210	1,199,482.490	457,223.640						80.00

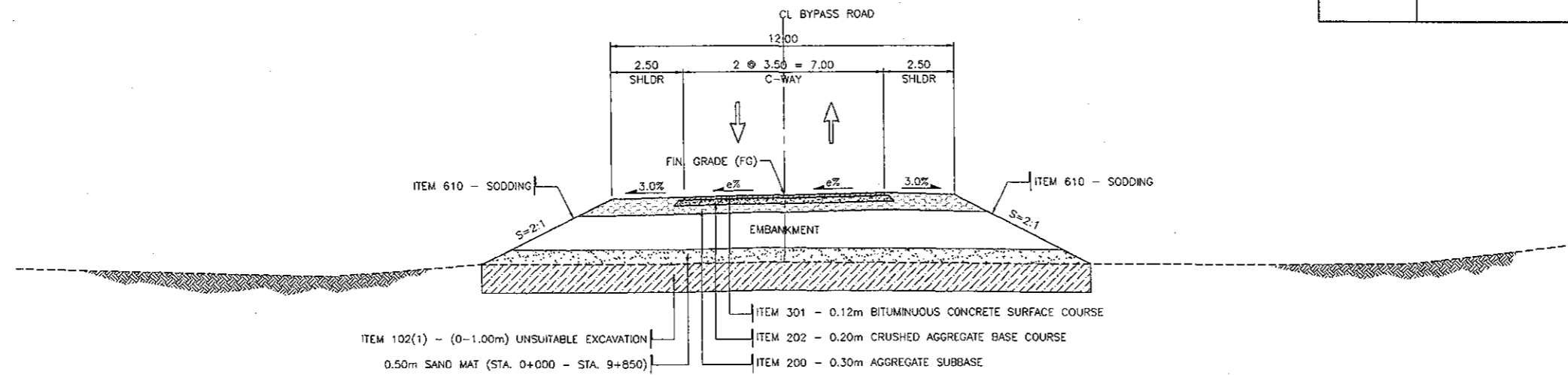
THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
HOR. 1:2500
VER. 1:250

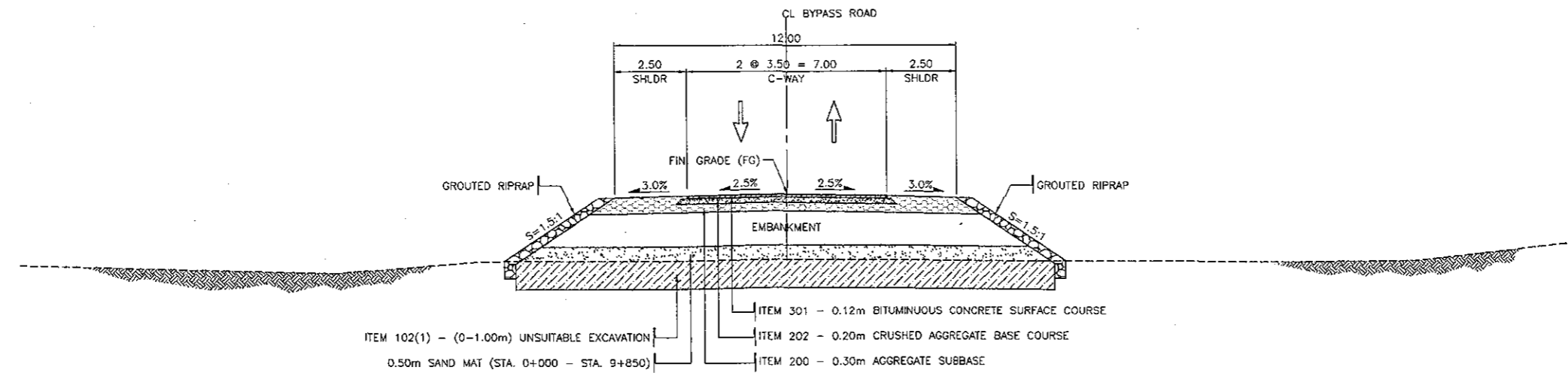
ILOILO R-4 BYPASS ROAD
PLAN AND PROFILE
STA. 11+200 - STA.11+863.210

DRAWING NO.
R-15

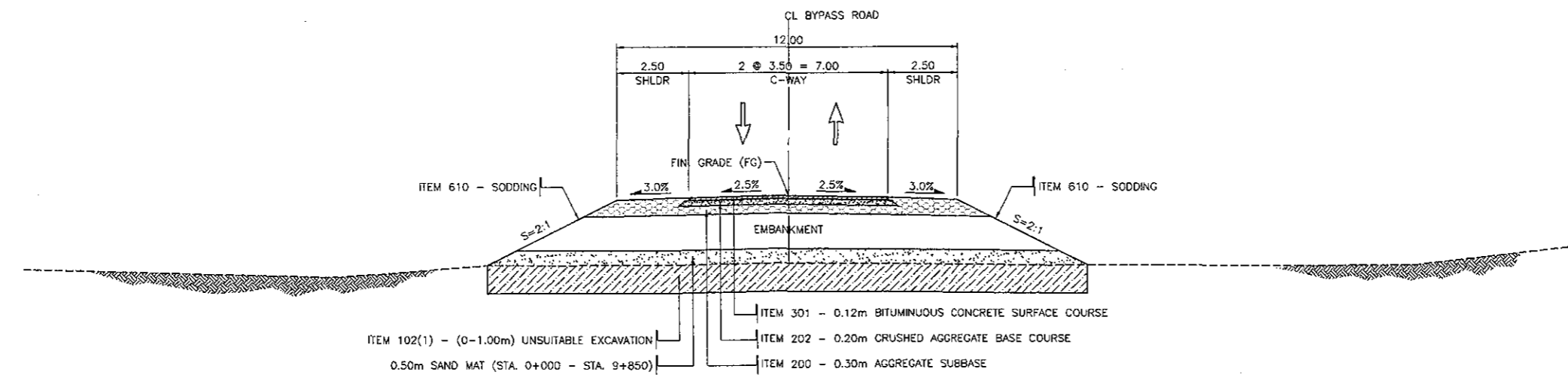




SUPERELEVATED SECTION



NORMAL SECTION WITH RIPRAP



NORMAL SECTION

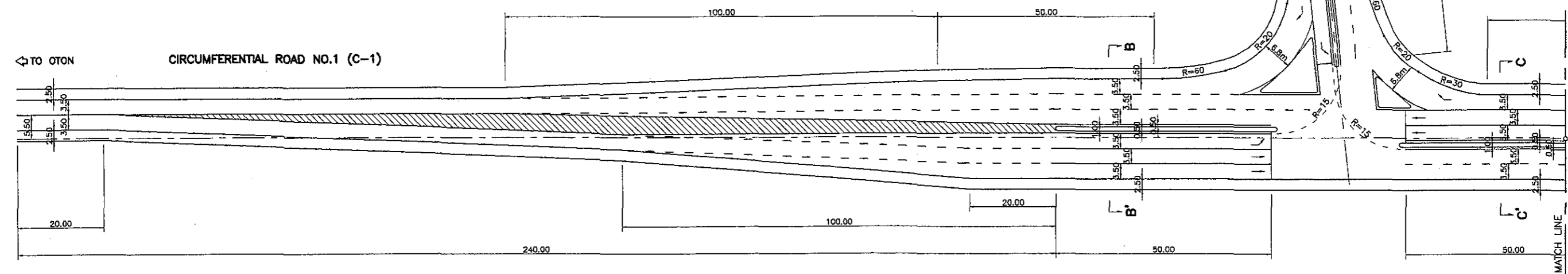
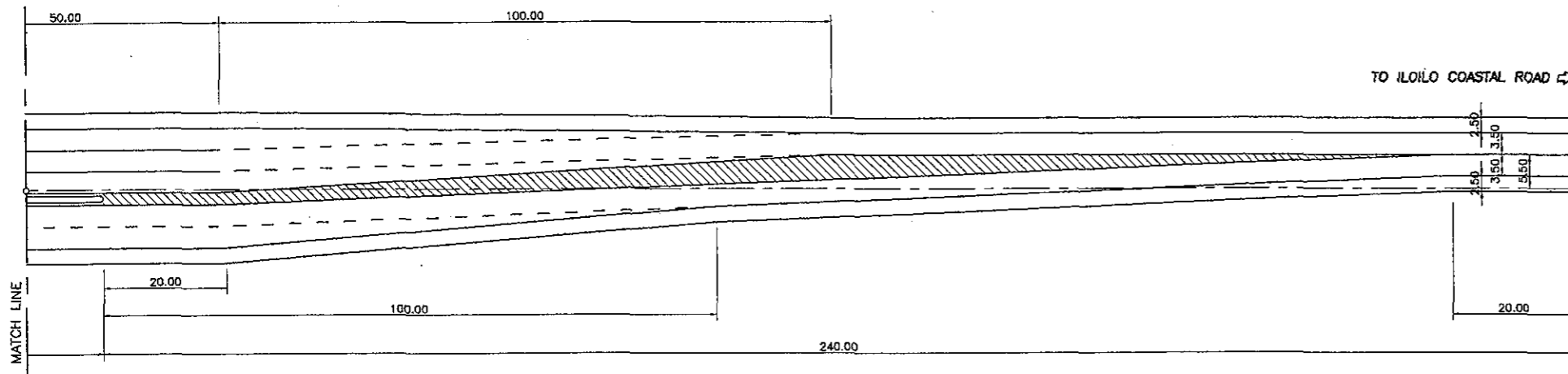
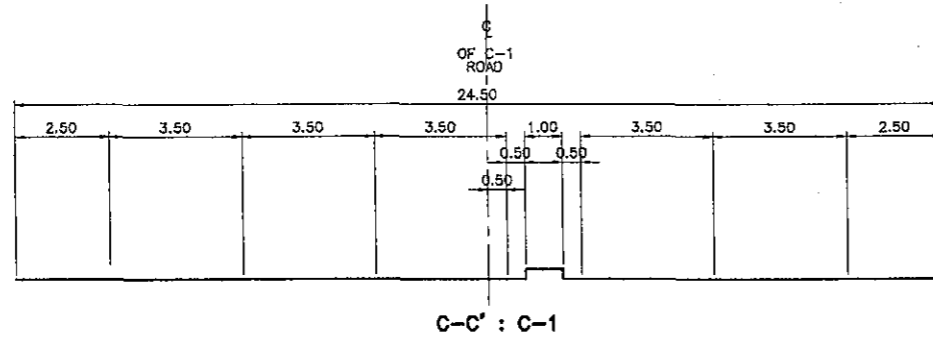
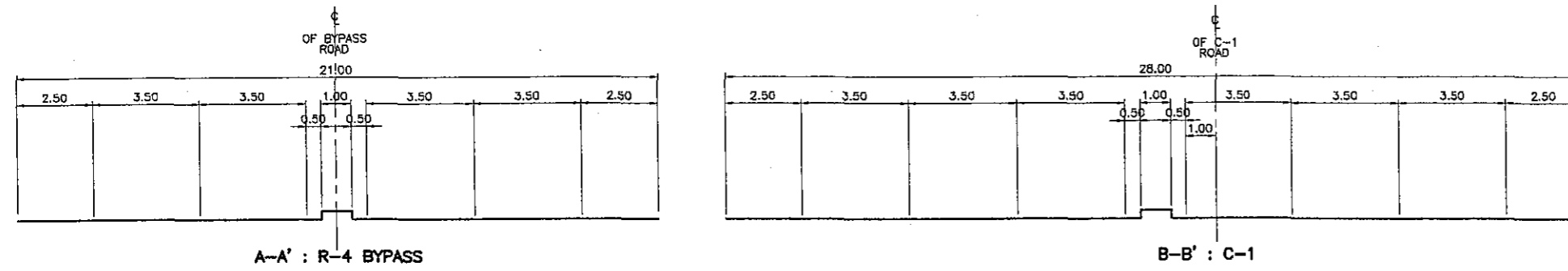
TYPICAL ROAD SECTIONS

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
PLAN. 1:1000
SECTION. 1:200

ILOILO R-4 BYPASS ROAD
INTERSECTION WITH C-1 ROAD
STA. 8+611.56

DRAWING NO.
R-17

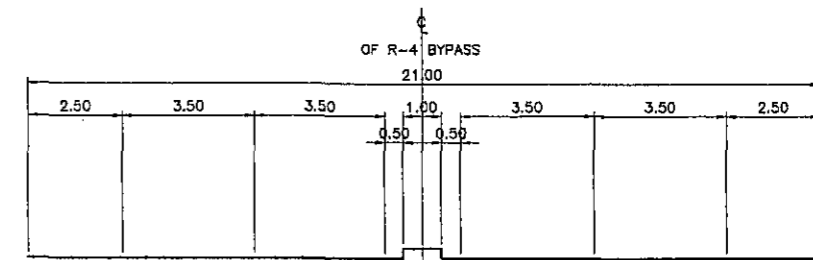


INTERSECTION WITH CIRCUMFERENTIAL ROAD NO.1 (TYPE D)
STA. 8+611.56, BEG. OF R-4 BYPASS ROAD

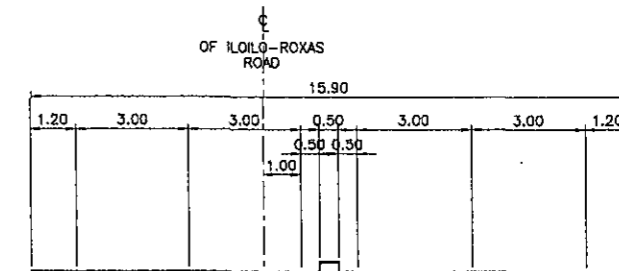
SCALE :
PLAN. 1:1000
SECTION. 1:200

ILOILO R-4 BYPASS ROAD
INTERSECTION WITH ILOILO CITY-ROXAS ROAD
STA. 11+863.21

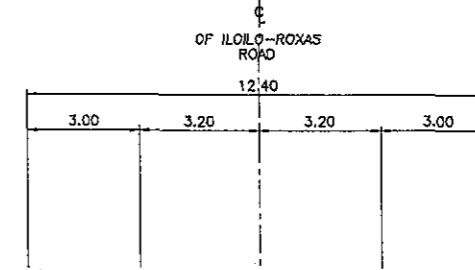
DRAWING NO.
R-18



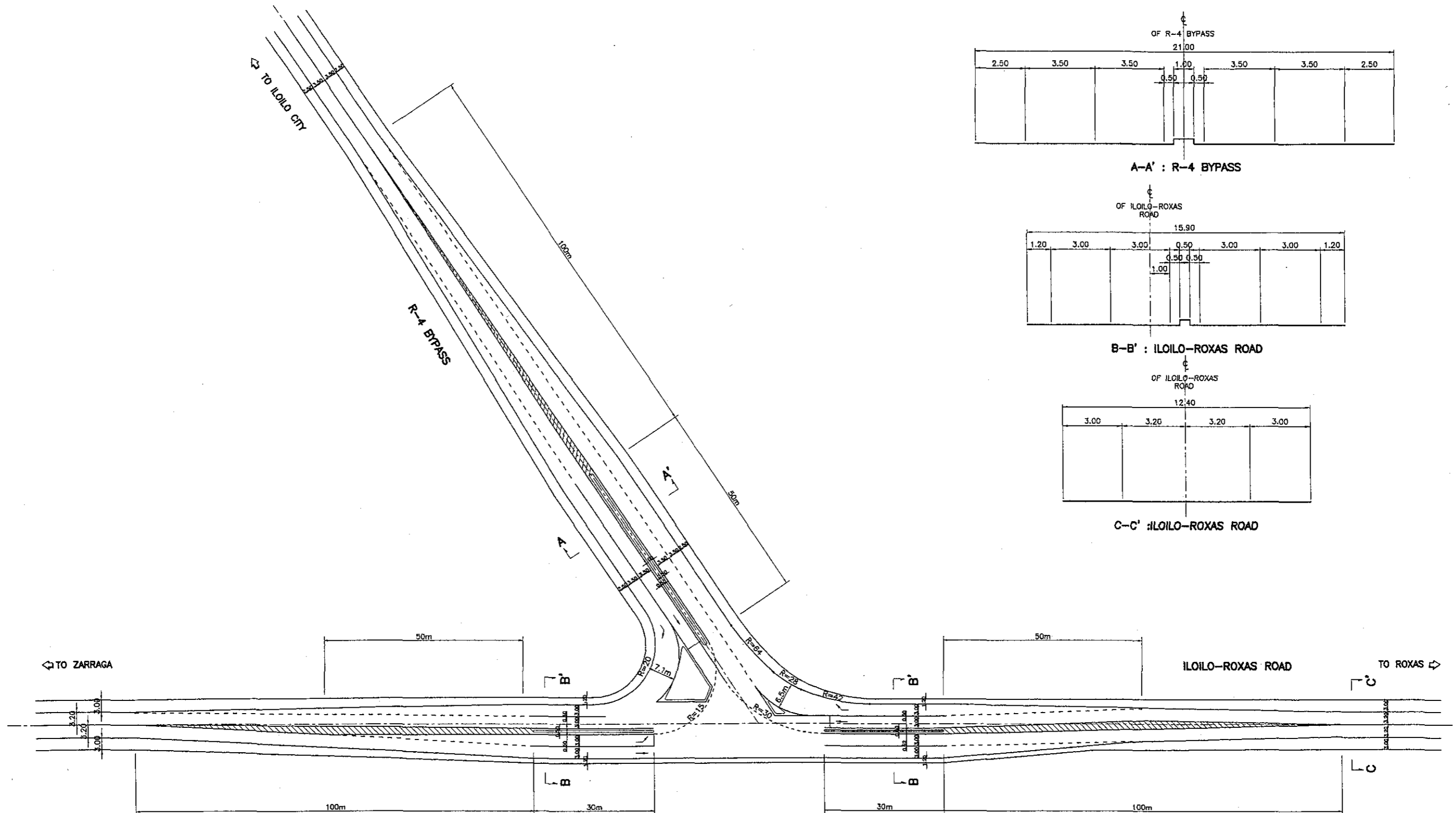
A-A' : R-4 BYPASS



B-B' : ILOILO-ROXAS ROAD



C-C' : ILOILO-ROXAS ROAD

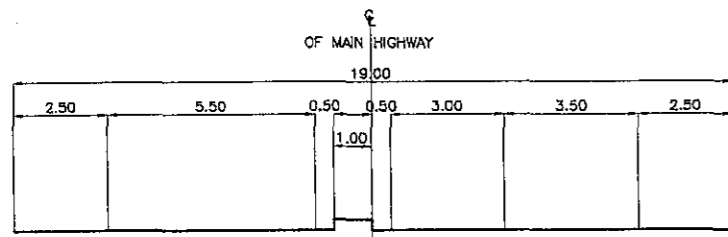


INTERSECTION WITH ILOILO CITY-ROXAS ROAD (TYPE H)
STA. 11+863.21, END OF ILOILO R-4 BYPASS ROAD

SCALE :
PLAN. 1:1000
SECTION. 1:200

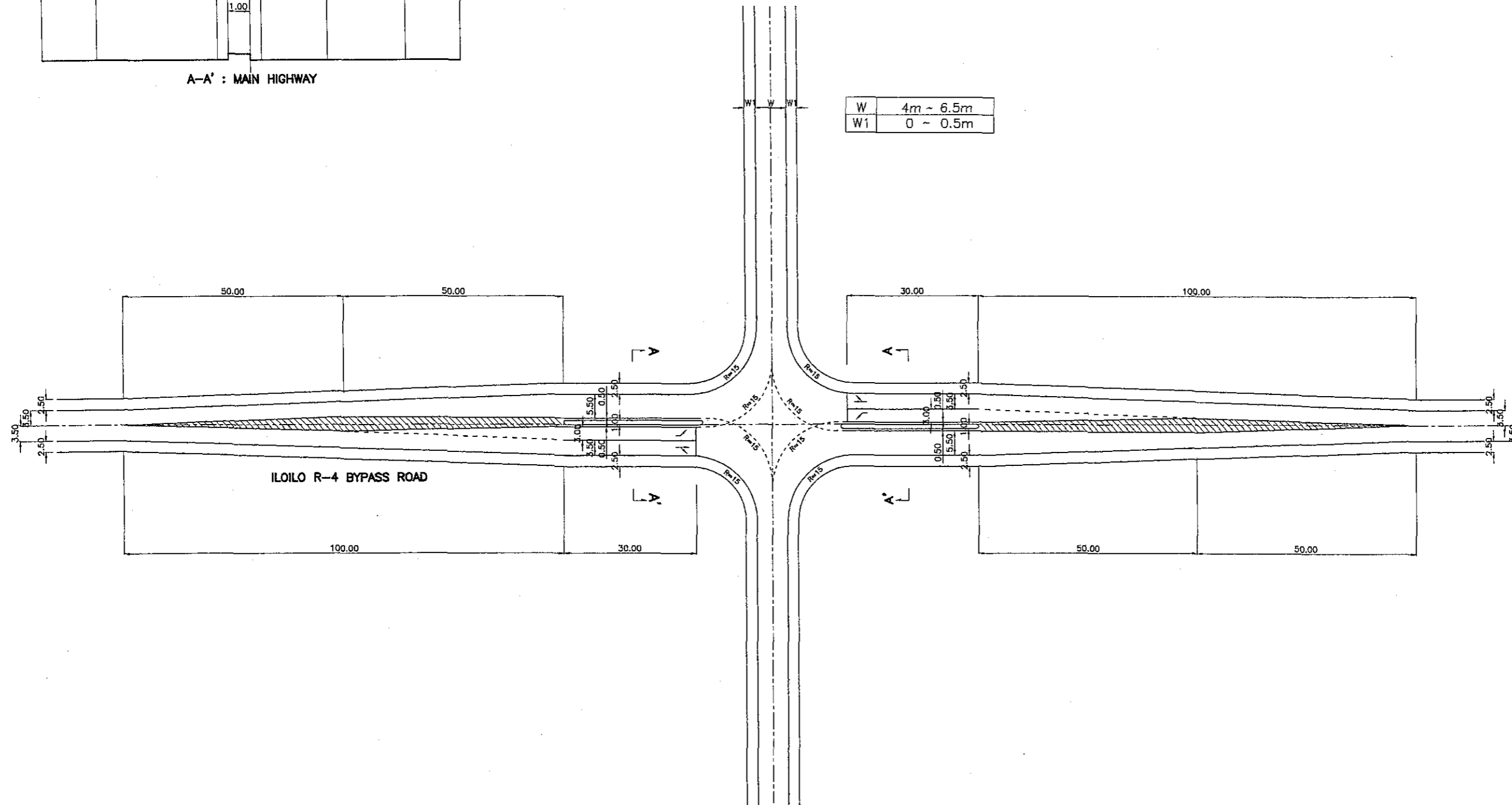
ILOILO R-4 BYPASS ROAD
INTERSECTION DETAILS WITH MINOR ROADS
(TYPE Q)

DRAWING NO.
R-19



A-A' : MAIN HIGHWAY

W	4m ~ 6.5m
W1	0 ~ 0.5m

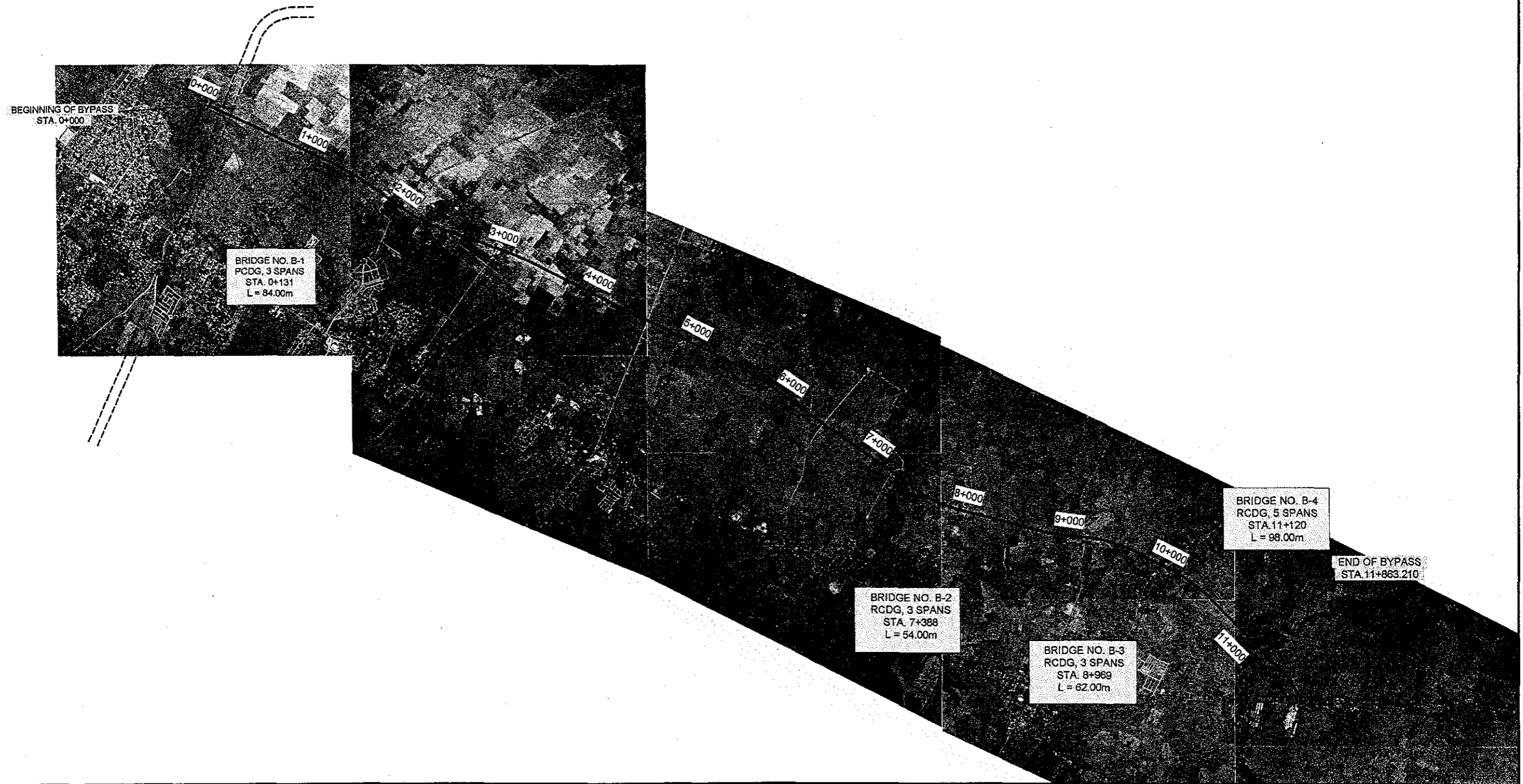


INTERSECTION DETAILS WITH MINOR ROADS (TYPE Q)

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :	ILOILO BYPASS ROAD LOCATION PLAN AND BRIDGE LIST	DRAWING NO.
1:30000		B-1

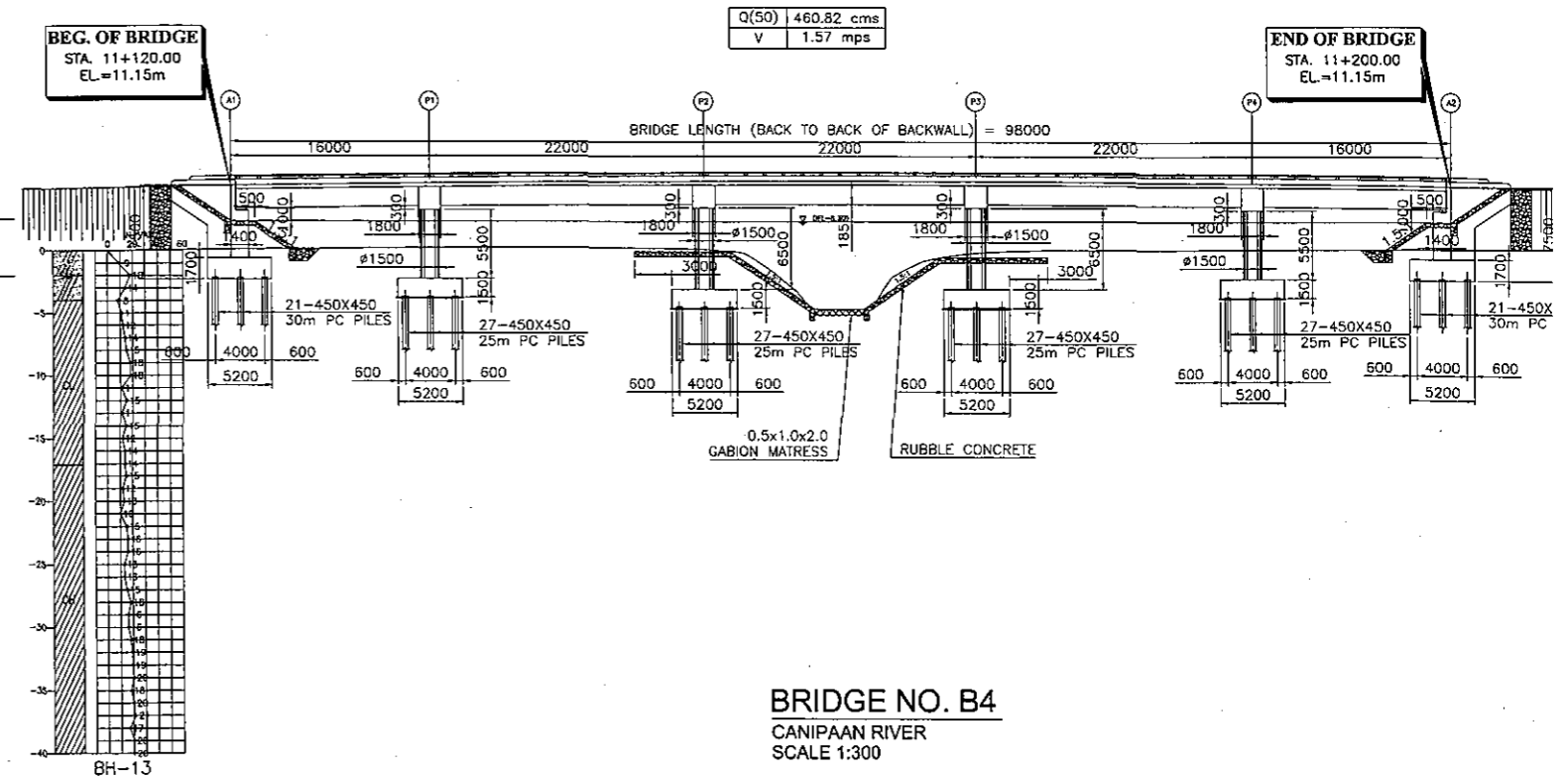
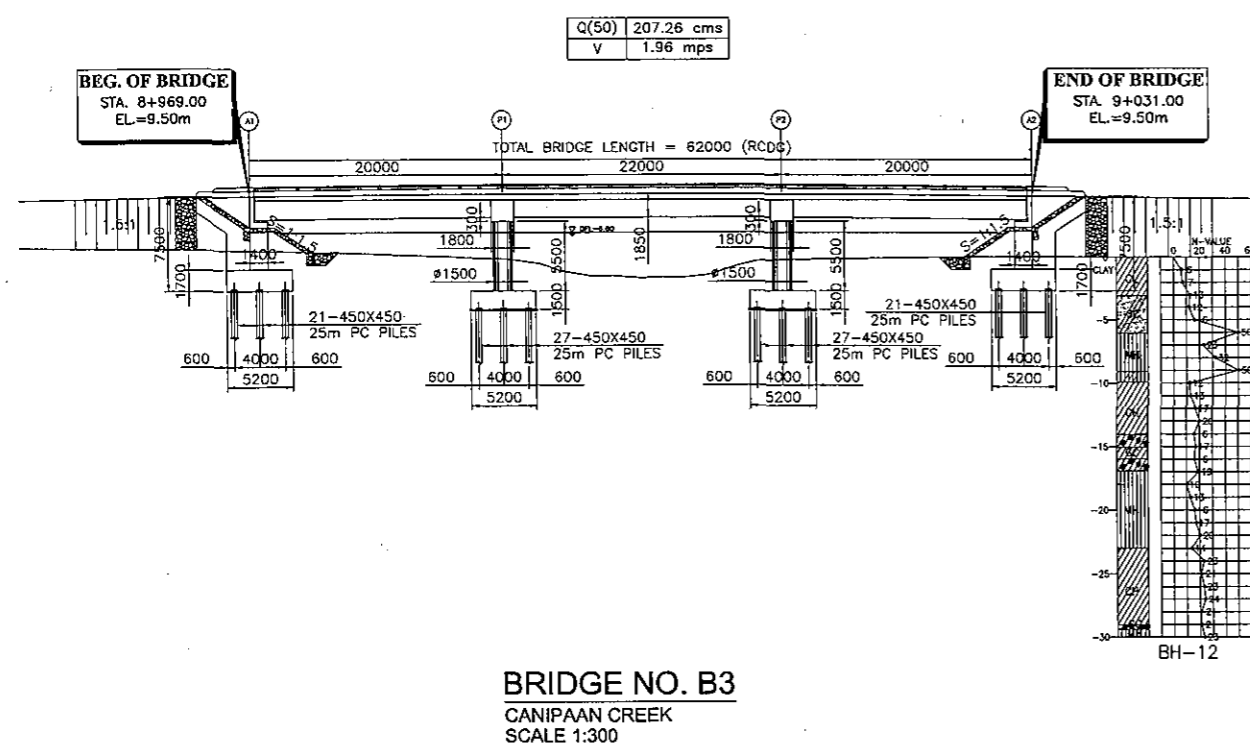
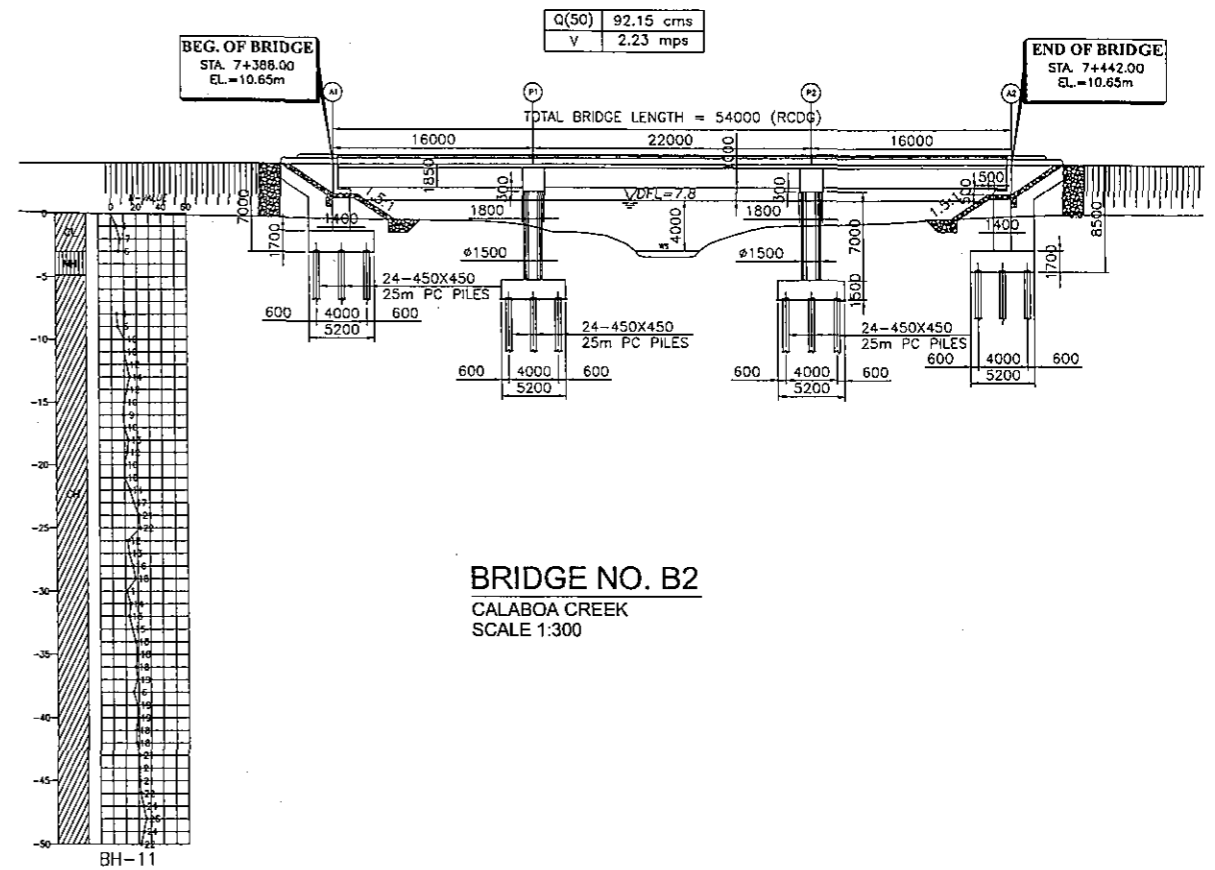
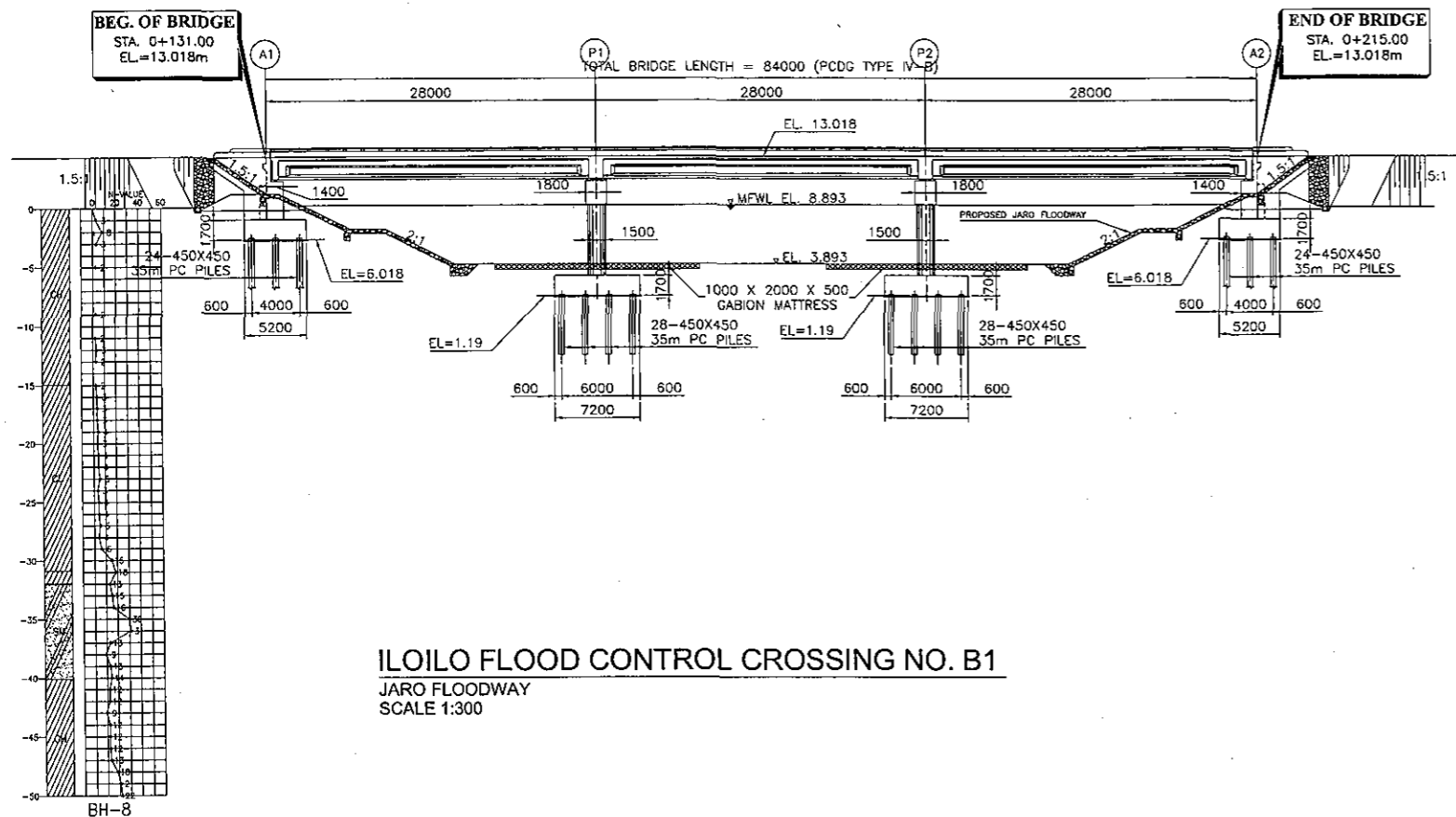
Bridge No.	Station		River Name	River Hydraulics			Proposed Bridge				
	Beg	End		Elev. MFWL	Q(cms) (50yrs)	Velocity m/s	No. of Span	Span Length(m)	Bridge Length(m)	Skew (deg)	Superstructure Type
B1	Sta. 0+131	Sta. 0+215	JARO FLOODWAY	8.893	FLOOD CONTROL PROJECT	x	3	28	84.00	90	PCDG, AASHTO Type IV-B
B2	Sta. 7+388	Sta. 7+442	CALABOA CREEK	7.80	92.15	2.23	3	16+22+16	54.00	90	RCDG
B3	Sta. 8+969	Sta. 9+031	CANIPAAN CREEK	6.60	207.26	1.96	3	20+22+20	62.00	90	RCDG
B4	Sta. 11+120	Sta. 11+200	CANIPAAN RIVER	8.30	460.82	1.57	5	16+22+22+22+16	98.00	90	RCDG



SCALE :
AS SHOWN

ILOILO R-4 BYPASS ROAD
BRIDGE ELEVATIONS, B1 TO B4

DRAWING NO.
B-2

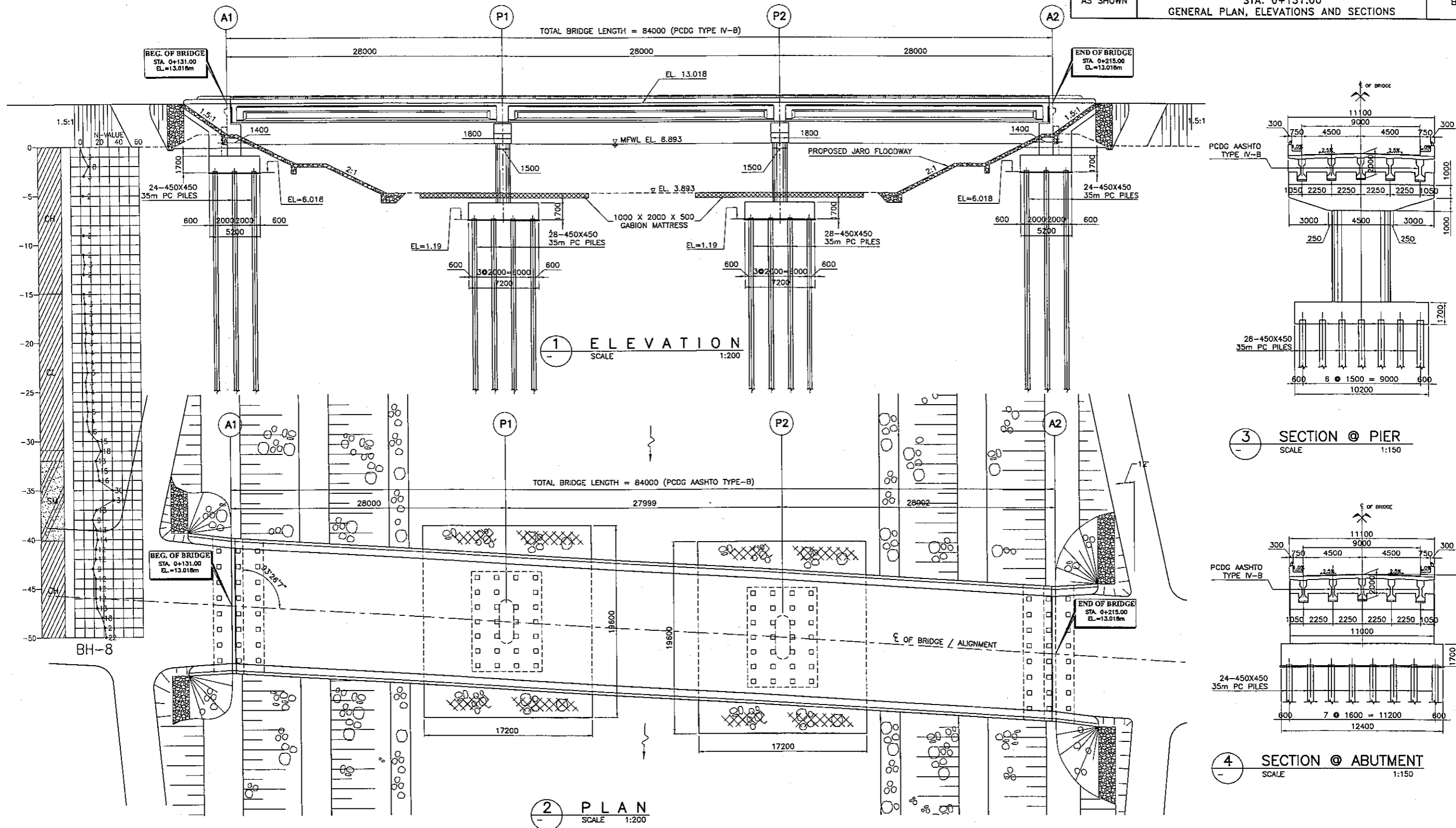


THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
AS SHOWN

ILOILO R-4 BYPASS ROAD
BRIDGE NO. B1 (JARO FLOODWAY)
STA. 0+131.00
GENERAL PLAN, ELEVATIONS AND SECTIONS

DRAWING NO.
B-3



SUMMARY OF ESTIMATED QUANTITIES

NOTE:

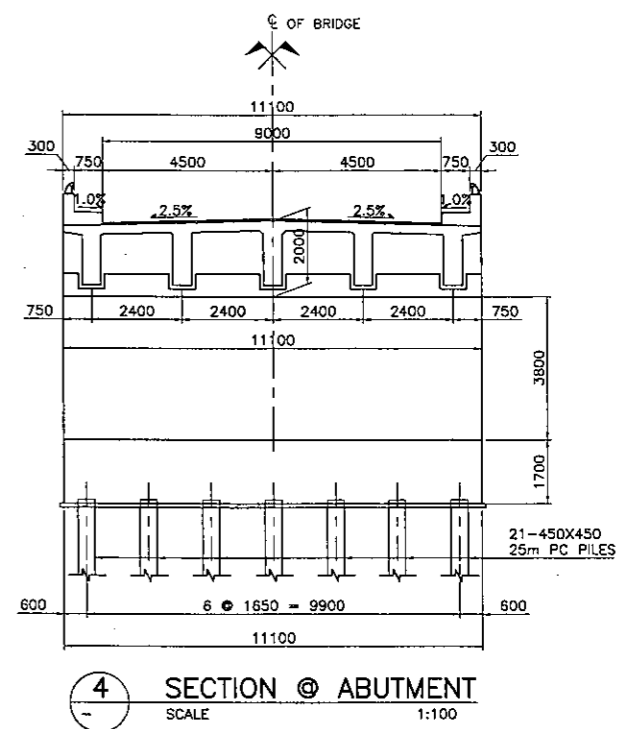
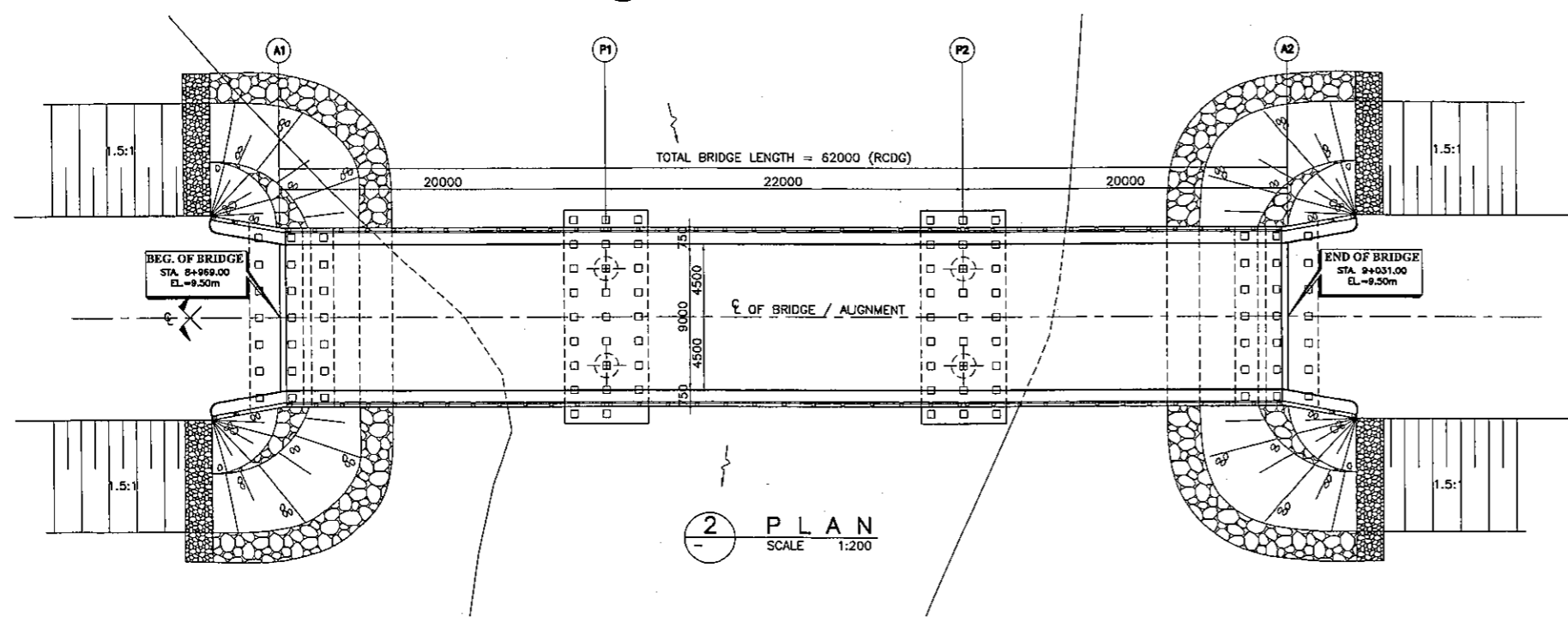
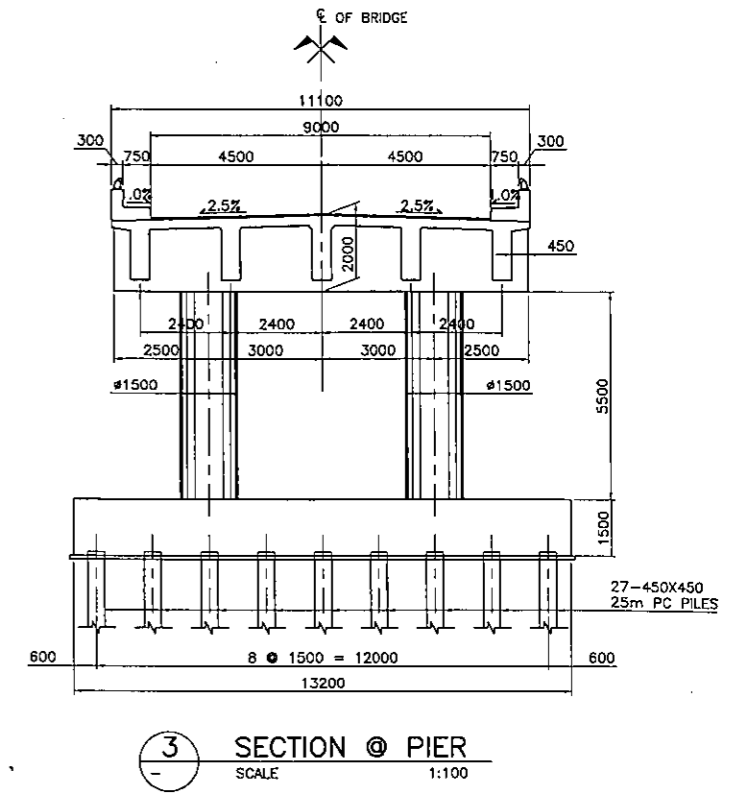
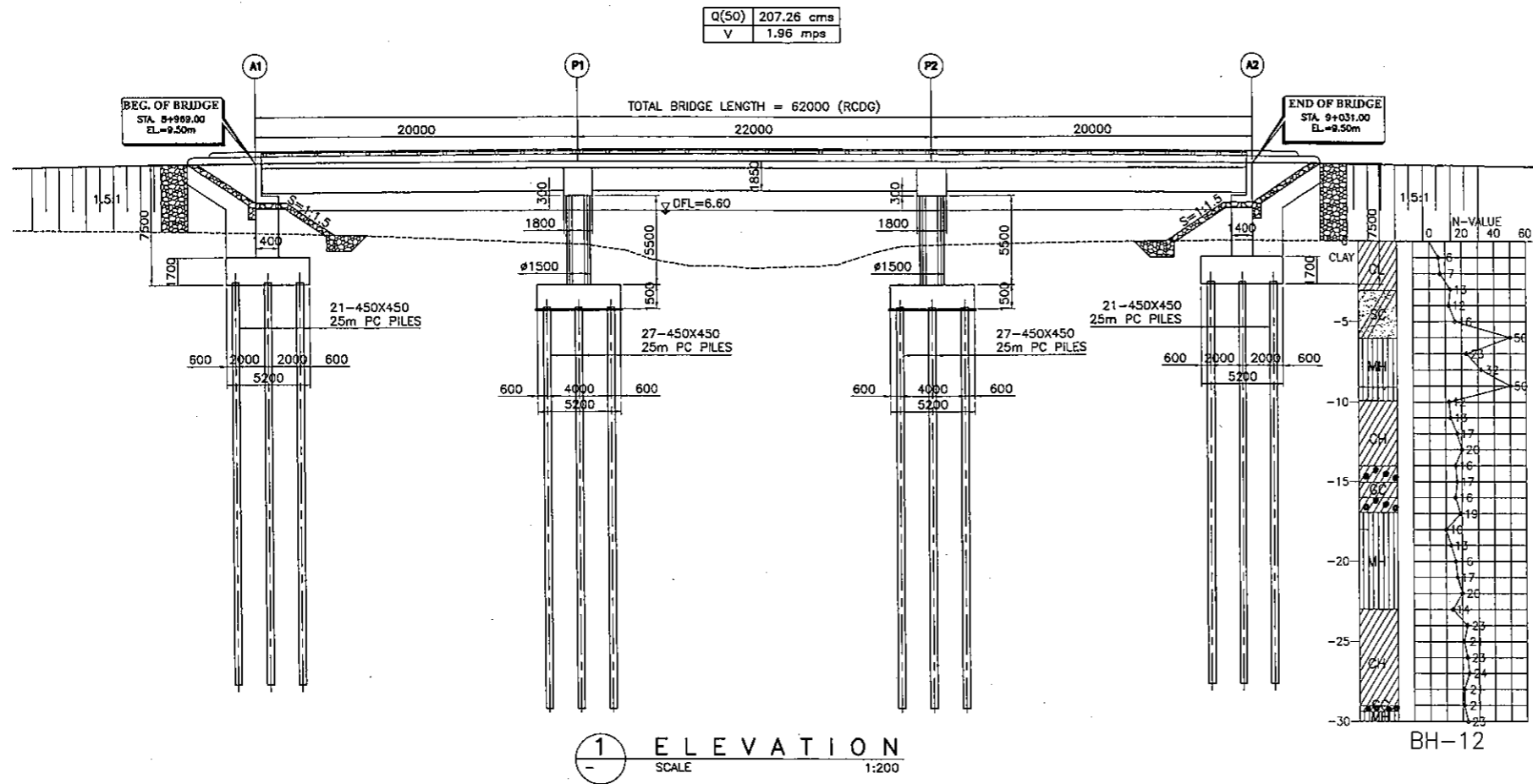
- JARO FLOODWAY IS NON-EXISTENT BUT PART OF THE PROPOSED ILOILO FLOOD CONTROL PROJECT.
- SECTION SHOWN IS THE PROPOSED FLOODWAY OF THE FLOOD CONTROL PROJECT.

ITEM No.	DESCRIPTION	UNIT	QUANTITY
103(2)	BRIDGE EXCAVATION, COMMON, ABOVE OWL	m ³	457.00
103(2)b	BRIDGE EXCAVATION, COMMON, BELOW OWL	m ³	505.00
104(1)c	SELECTED BORROW FOR BACKFILLING	m ³	600.00
311(2)	PCC PAVEMENT (REINFORCED) FOR APPROACH SLAB, t = 300mm	m ²	90.00
400(4)	PRECAST CONCRETE PILES (450x450), FURNISHED and DRIVEN	m	3,500.00
400(15)	TEST PILES (450x450) FURNISHED and DRIVEN	m	104.00
400(19)	PILE SHOES for 450x450 PILES	ea	96.00
401	CONCRETE RAILINGS	m	168.00

404(2)	REINFORCING STEEL, GRADE 60 (f _y = 415MPa)	kg	145,241.30
405(1)	STRUCTURAL CONCRETE CLASS "A1" FOR SUBSTRUCTURE (f _c ' = 24MPa)	m ³	412.00
405(2)	STRUCTURAL CONCRETE CLASS "A2" FOR SUPERSTRUCTURE (f _c ' = 24MPa)	m ³	363.00
405(6)	STRUCTURAL CONCRETE "LEAN CONCRETE" (f _c ' = 17MPa)	m ³	37.00
406(1)f	PRESTRESSED CONCRETE GIRDER, AASHTO TYPE IV-B, L = 28m	ea	15.00
407(1)c	ELASTOMERIC BEARING PAD, 625 x 400 x 60 (DURO 60)	ea	10.00
407(2)a	EXPANSION JOINT, MULTIPLEX M80 (± 30mm MOVEMENT)	m	18.00
407(4)	METAL DRAIN (ø130mm G.I. DRAIN PIPE)	m	24.00
504	GROUTED RIPRAP SLOPE PROTECTION	m ³	20.00
509	GABIONS	m ³	675.00
510	RUBBLE CONCRETE SLOPE PROTECTION, t = 350mm	m ³	307.00

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :	ILOILO R-4 BYPASS ROAD BRIDGE NO. B3 (CANIPAN CREEK) STA. 8+969.00 GENERAL PLAN, ELEVATION AND SECTIONS	DRAWING NO.
AS SHOWN		B-4



SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	UNIT	QUANTITY
103(2)	BRIDGE EXCAVATION, COMMON, ABOVE OWL	m ³	450.00
103(2)b	BRIDGE EXCAVATION, COMMON, BELOW OWL	m ³	704.00
104(1)c	SELECTED BORROW FOR BACKFILLING	m ³	409.00
311(2)	PCC PAVEMENT (REINFORCED) FOR APPROACH SLAB, t = 300mm	m ²	90.00
400(4)	PRECAST CONCRETE PILES (450x450), FURNISHED and DRIVEN	m ²	2,300.00
400(15)	TEST PILES (450x450) FURNISHED and DRIVEN	m	108.00
400(19)	PILE SHOES for 450x450 PILES	ea	96.00

401	CONCRETE RAILINGS	m	124.00
404(2)	REINFORCING STEEL, GRADE 80(f _y = 415MPa)	kg	195,114.00
405(1)	STRUCTURAL CONCRETE CLASS "A1" FOR SUBSTRUCTURE(f _c = 24MPa)	m ³	459.00
405(2)	STRUCTURAL CONCRETE CLASS "A2" FOR SUPERSTRUCTURE(f _c = 24MPa)	m ³	467.00
405(6)	STRUCTURAL CONCRETE "LEAN CONCRETE" (f _c = 17MPa)	m ³	41.00
407(1)a	ELASTOMERIC BEARING PAD, 450 x 350 x 60(DURO 60)	ea	10.00
407(2)a	EXPANSION JOINT, MULTIPLEX M80(± 30mm MOVEMENT)	m	18.00
407(4)	METAL DRAIN (#150mm C.I. DRAIN PIPE)	m	24.00
504	GROUTED RIPRAP SLOPE PROTECTION	m ³	11.00
510	RUBBLE CONCRETE SLOPE PROTECTION, t = 350mm	m ³	150.00

