

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

**THE DETAILED DESIGN STUDY
FOR
THE PASIG-MARIKINA RIVER
CHANNEL
IMPROVEMENT PROJECT
(PHASE IV)**

**FINAL REPORT
(PRIOR RELEASE VERSION)**

**VOLUME-2
APPENDIX**

AUGUST 2020

JAPAN INTERNATIONAL COOPERATION AGENCY

**CTI ENGINEERING INTERNATIONAL CO., LTD.
JAPAN WATER AGENCY
NIPPON KOEI CO., LTD.
CTI ENGINEERING CO., LTD.**

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**COMPOSITION OF FINAL REPORT
(PRIOR RELEASE VERSION)**

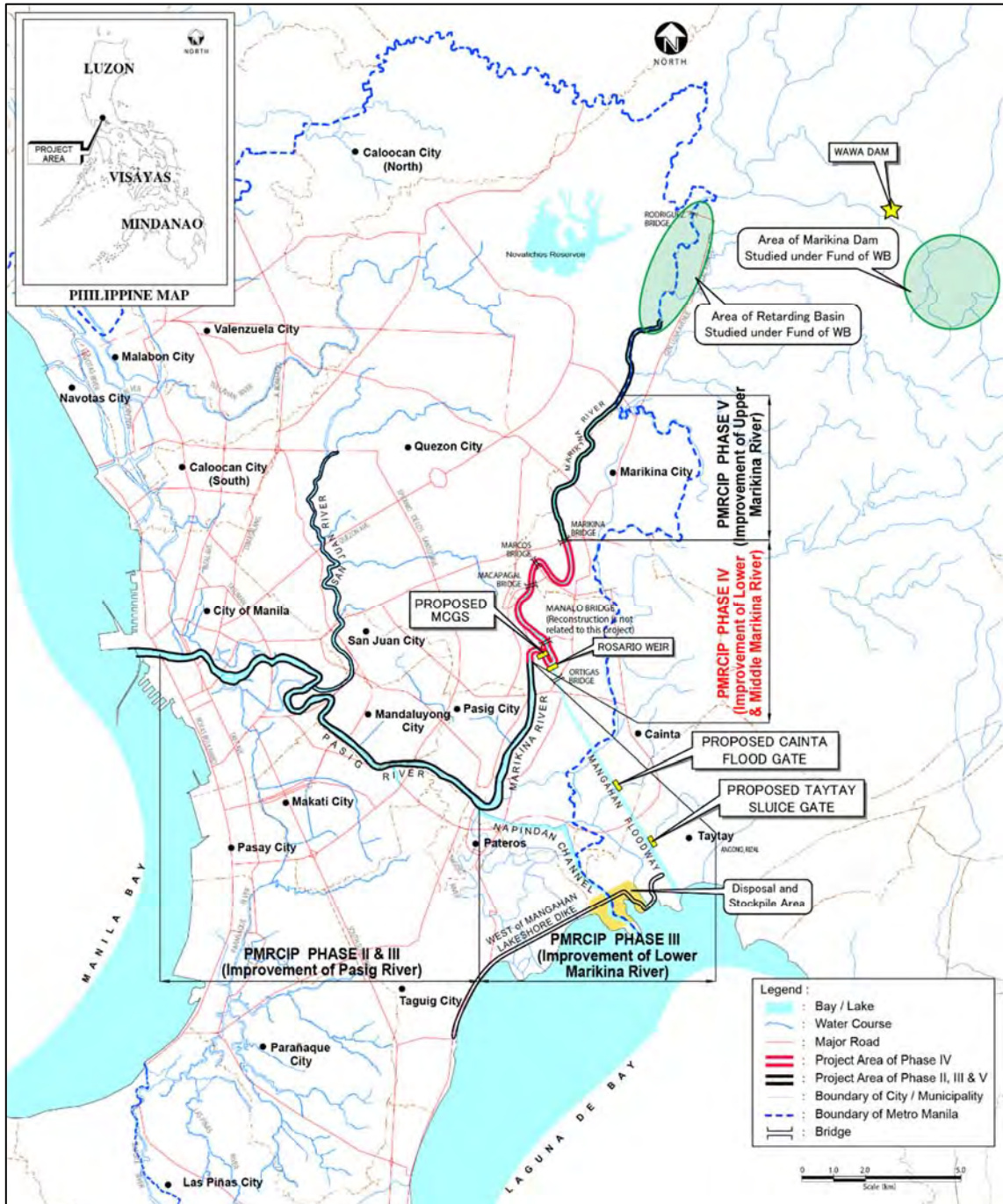
VOLUME-1A : MAIN REPORT (CHAPTER 1 to 6)
VOLUME-1B : MAIN REPORT (CHAPTER 7 / 7.1 to 7.3)
VOLUME-1C : MAIN REPORT (CHAPTER 7 / 7.4 to 7.6)
VOLUME-1D : MAIN REPORT (CHAPTER 8 to 12)

VOLUME-2 : APPENDIX

VOLUME-3 : APPENDIX FOR GEOTECHNICAL
INVESTIGATION

EXCHANGE RATES USED IN THE REPORT:

PHP 1.0 = JPY 2.15 US \$1.0 = JPY 108.9 = PHP 50.7 (November 2019)



PROJECT LOCATION MAP

**THE DETAILED DESIGN STUDY
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IMPROVEMENT PROJECT (PHASE IV)**

**FINAL REPORT (PRIOR RELEASE VERSION)
VOL.-2 APPENDIX**

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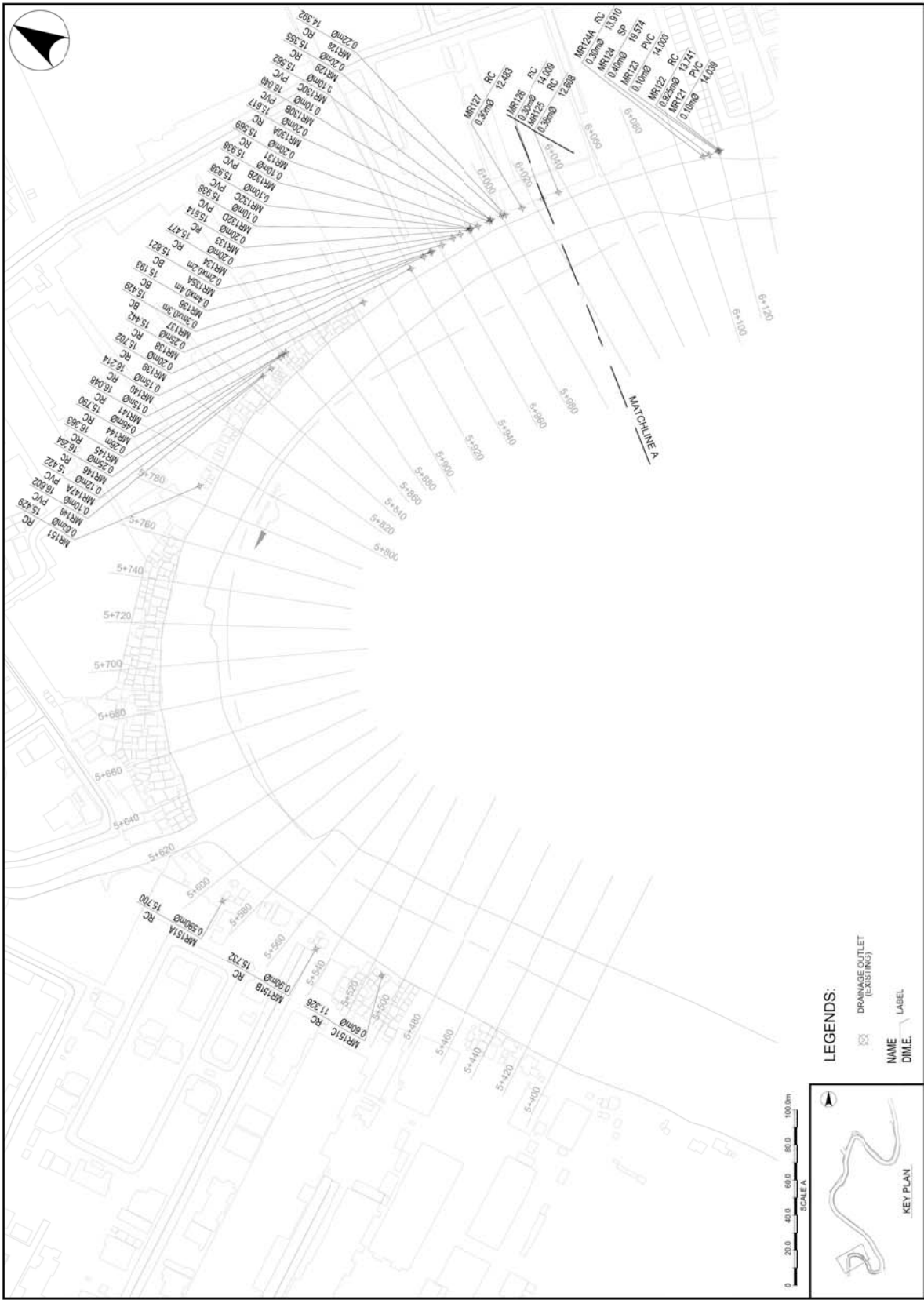
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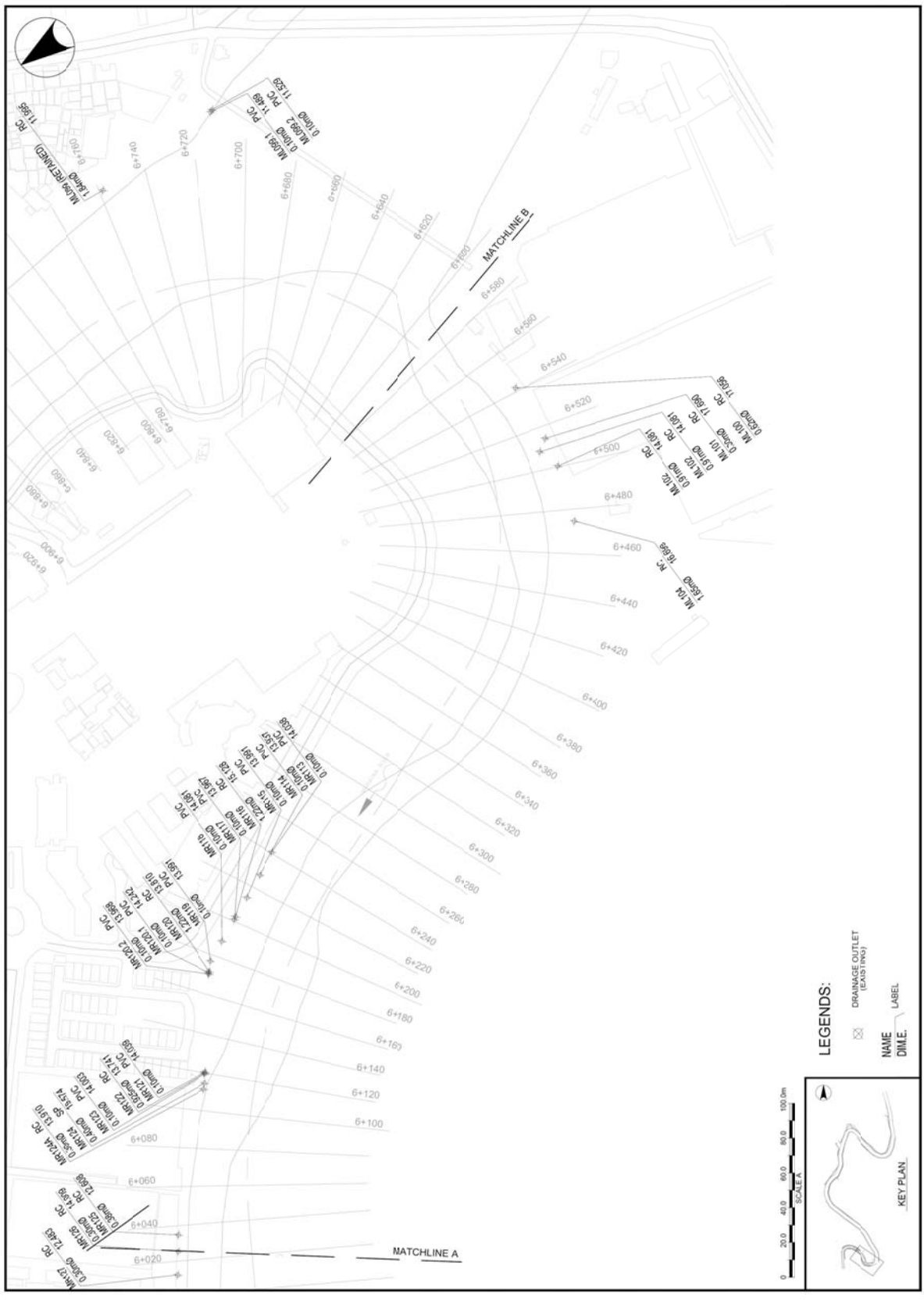
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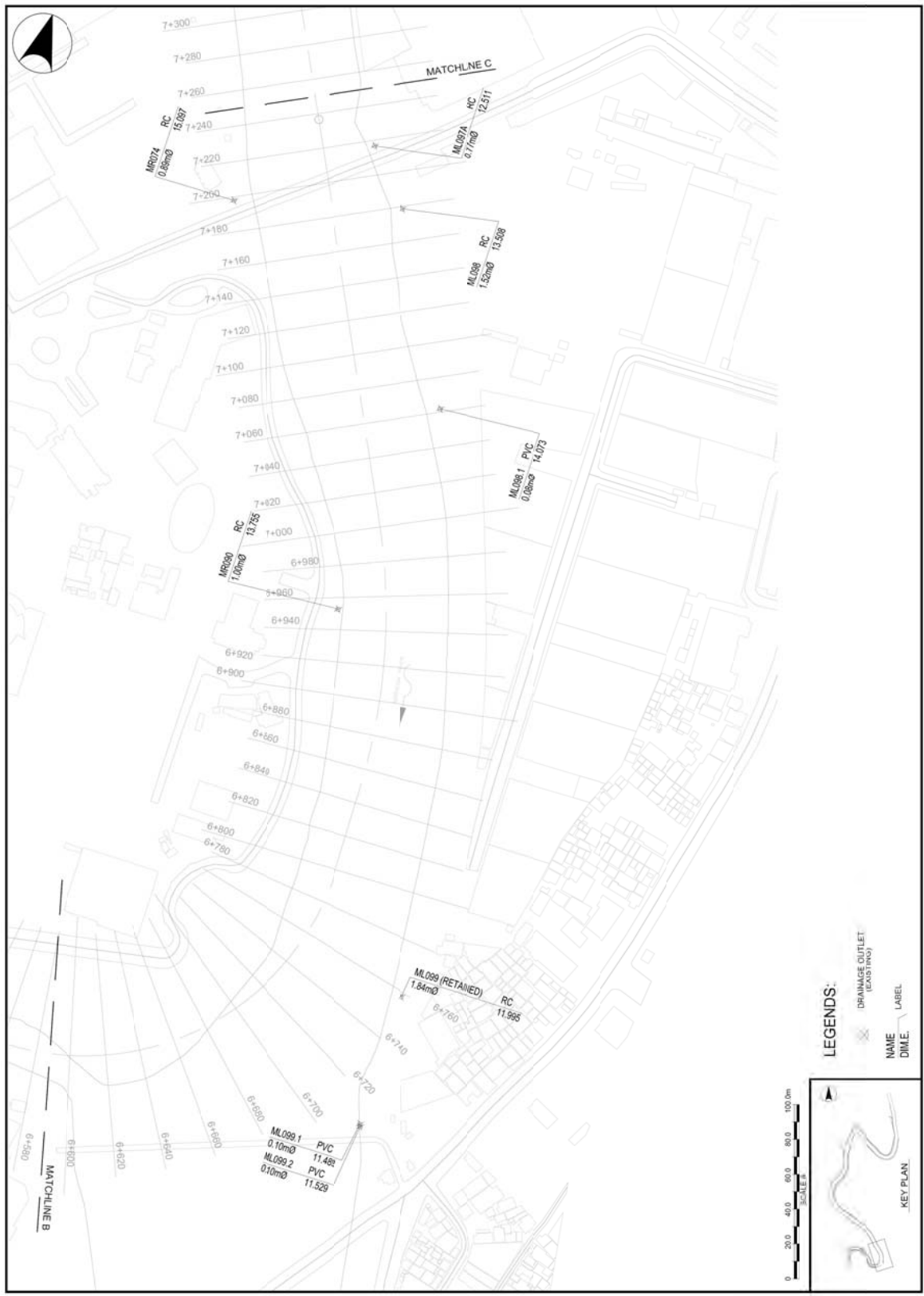
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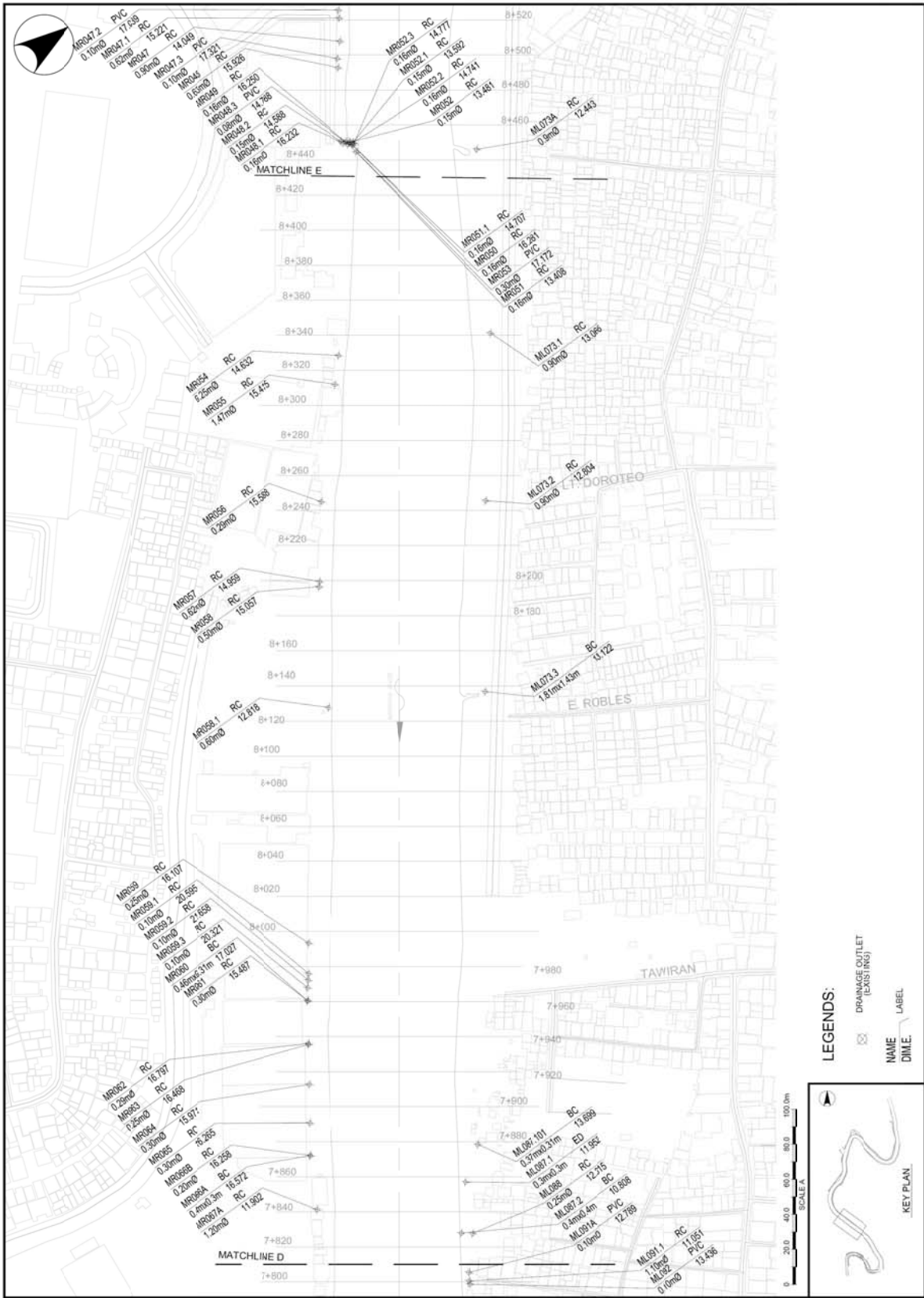
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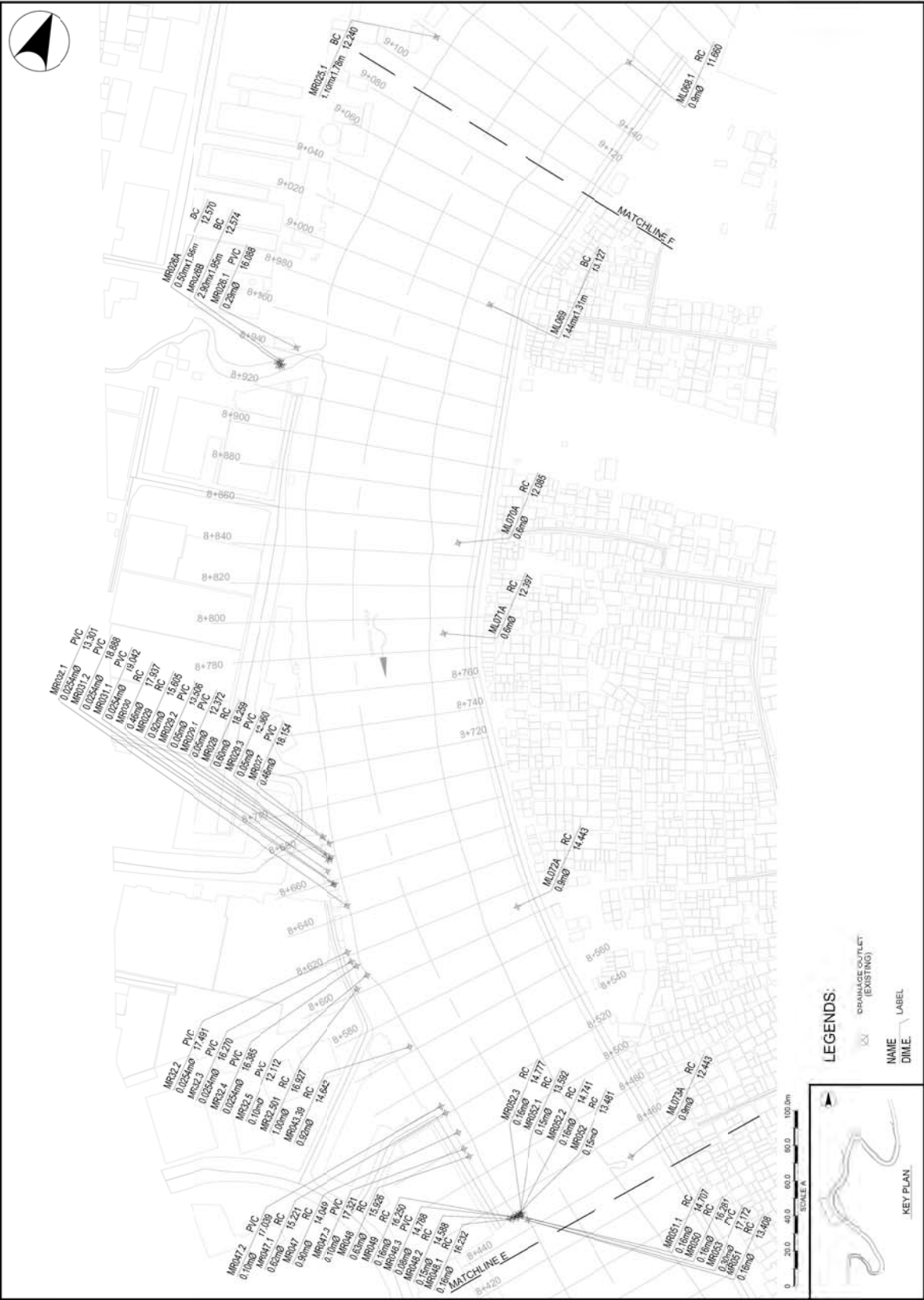
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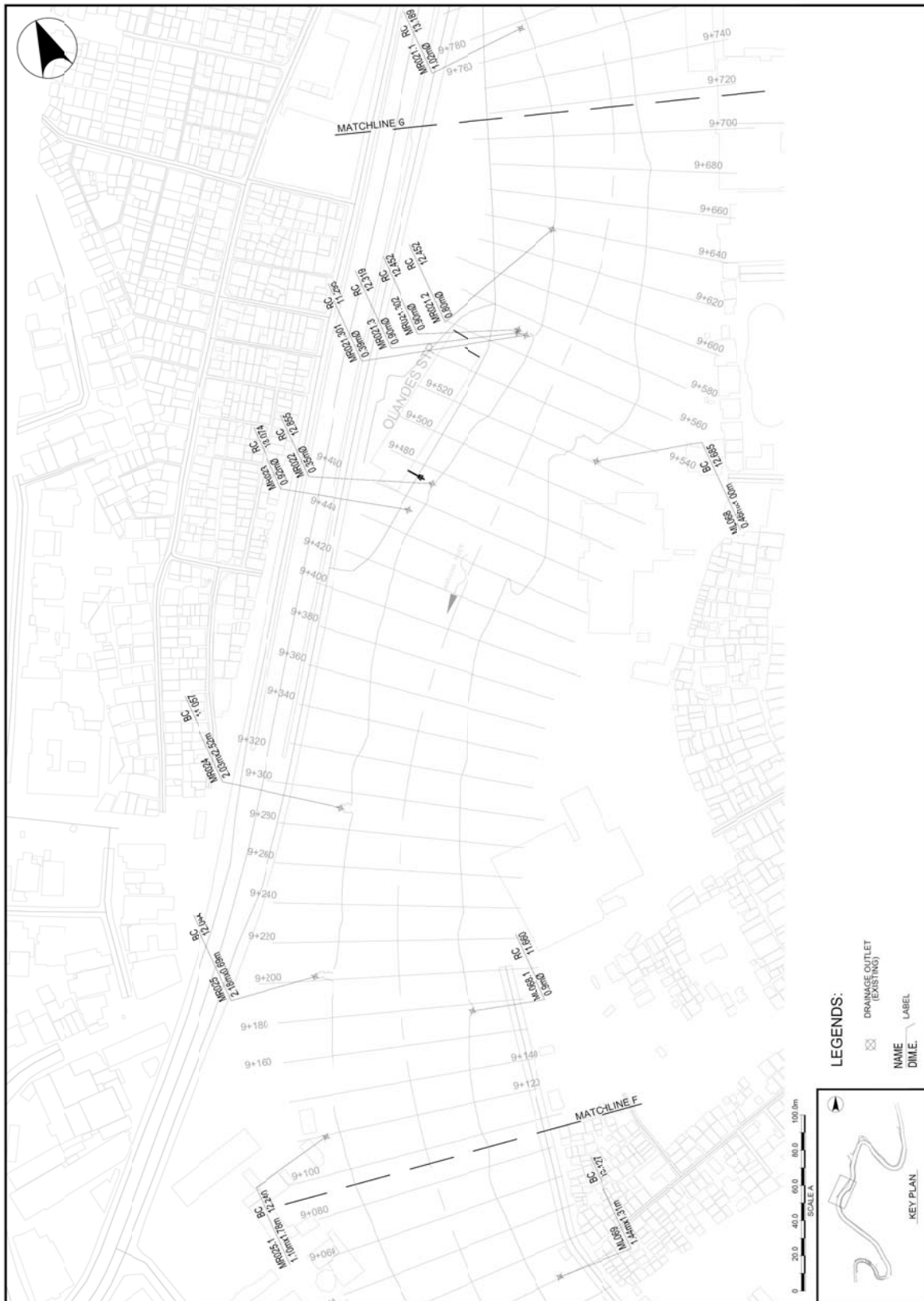
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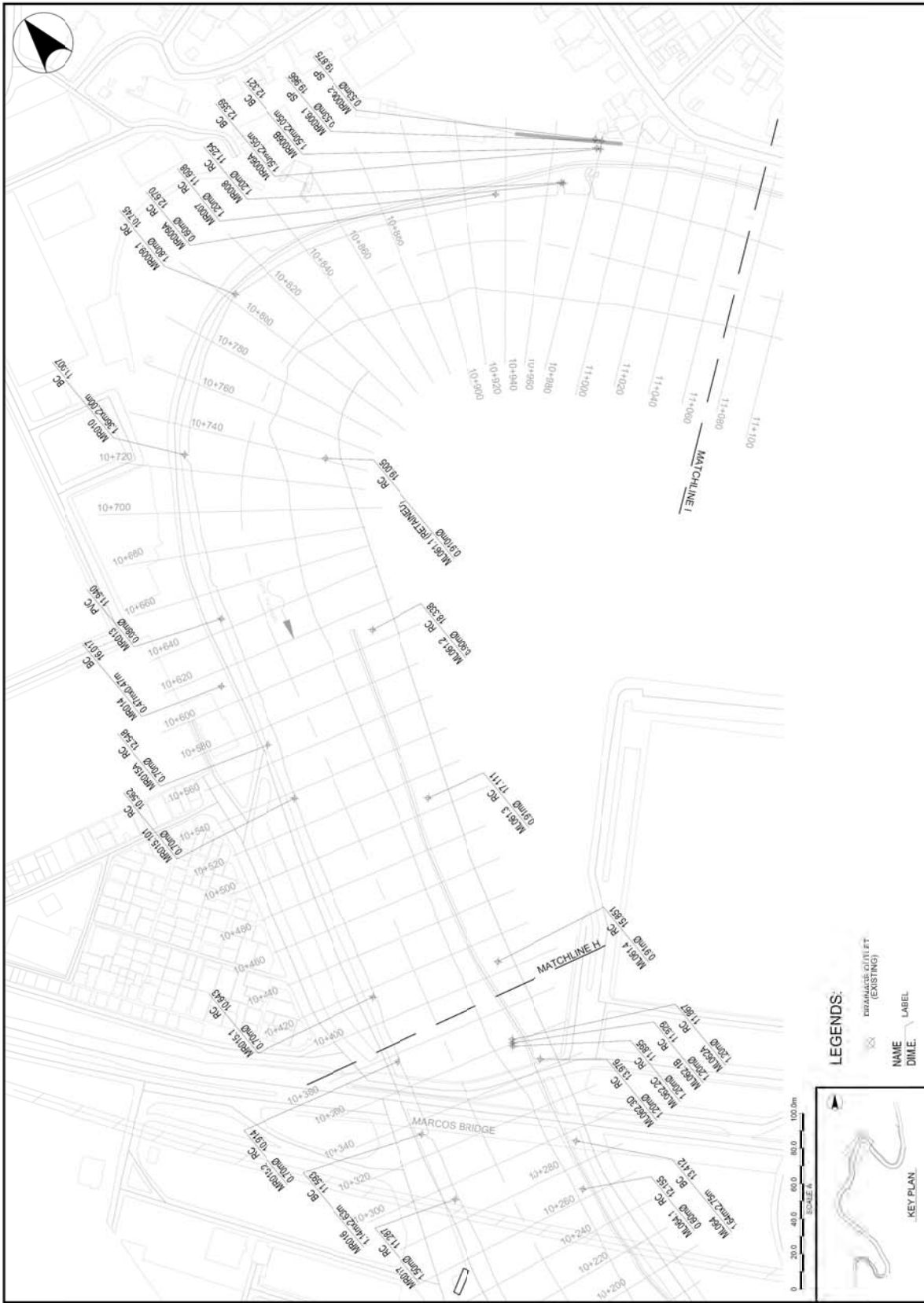
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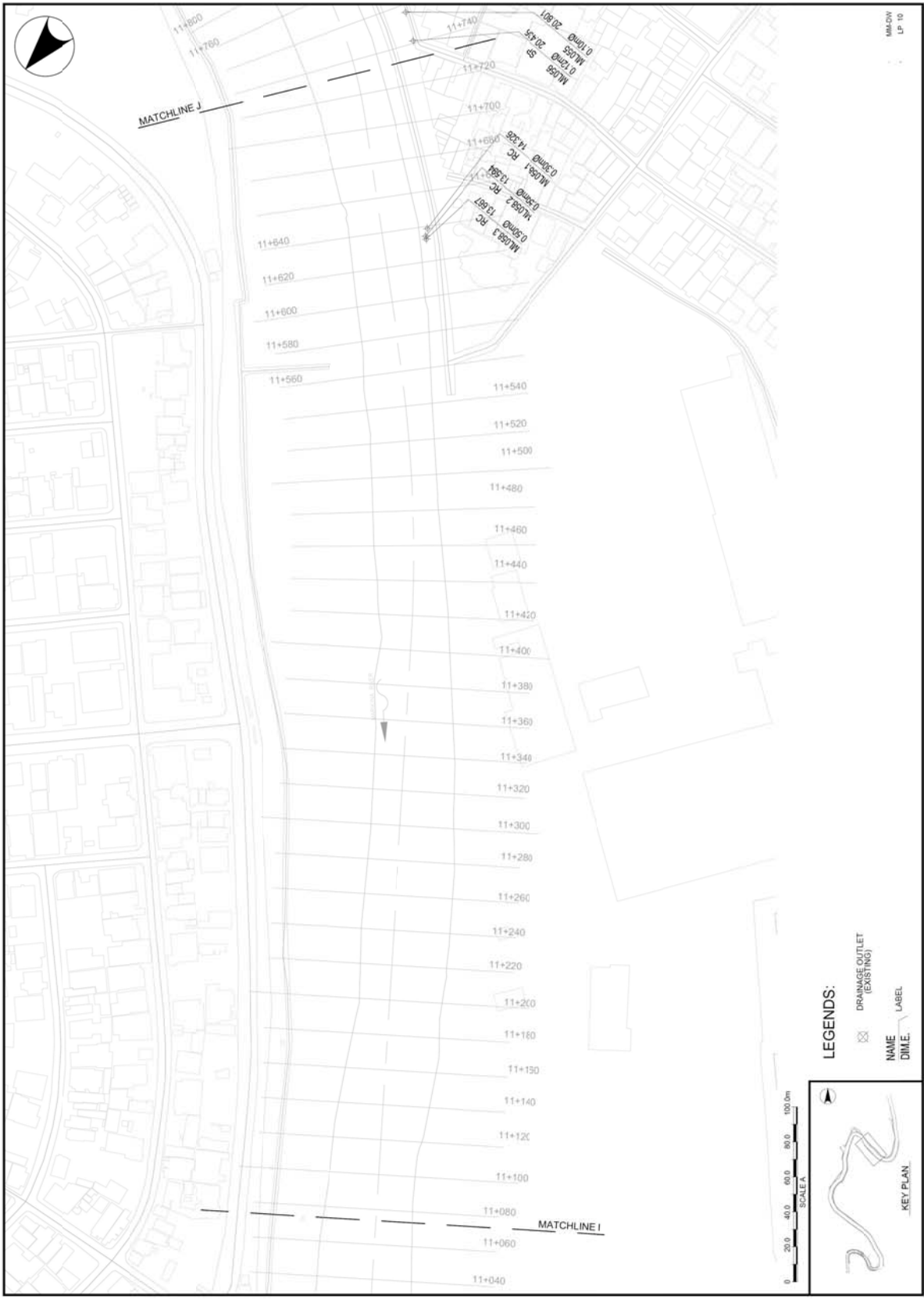
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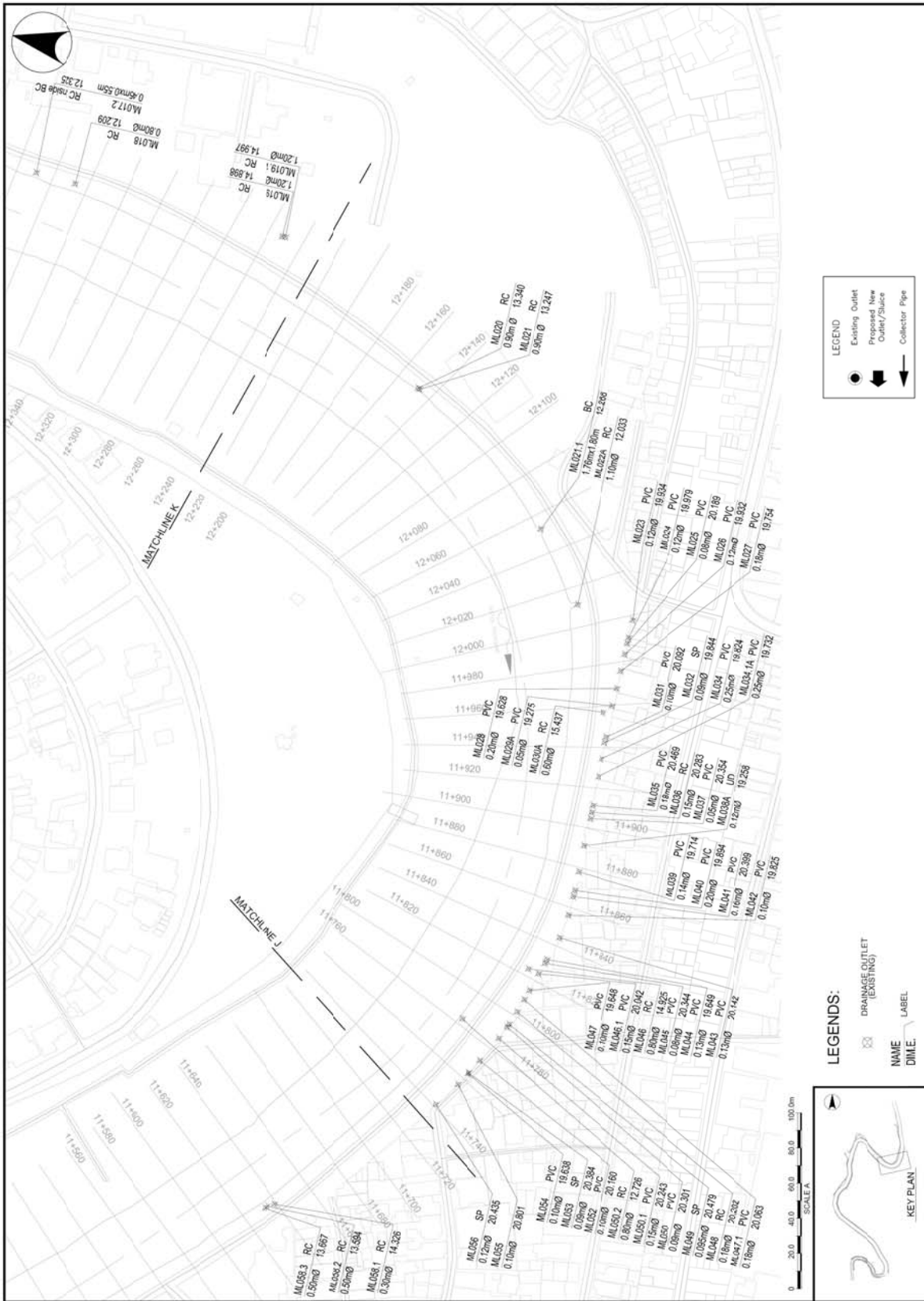
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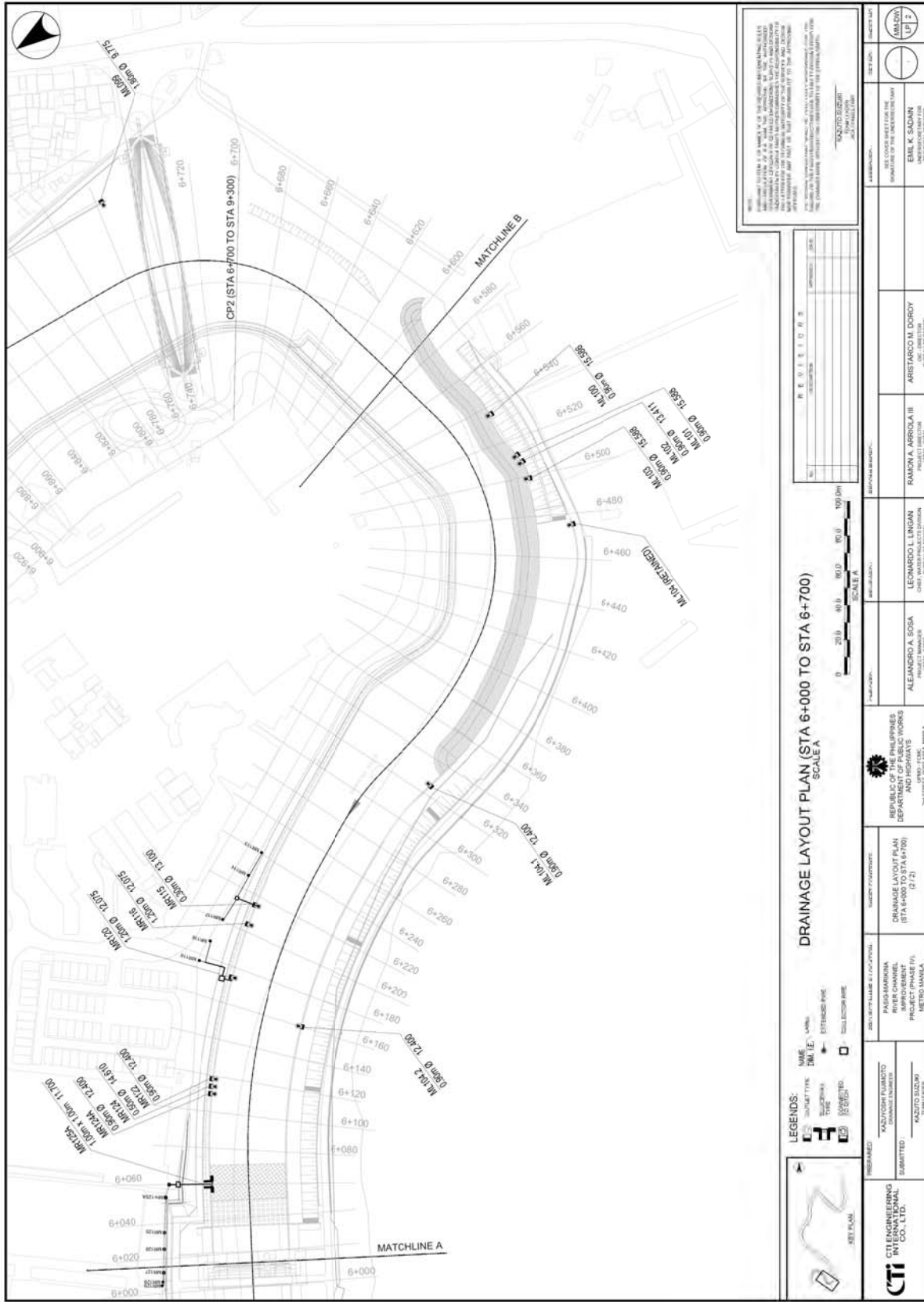
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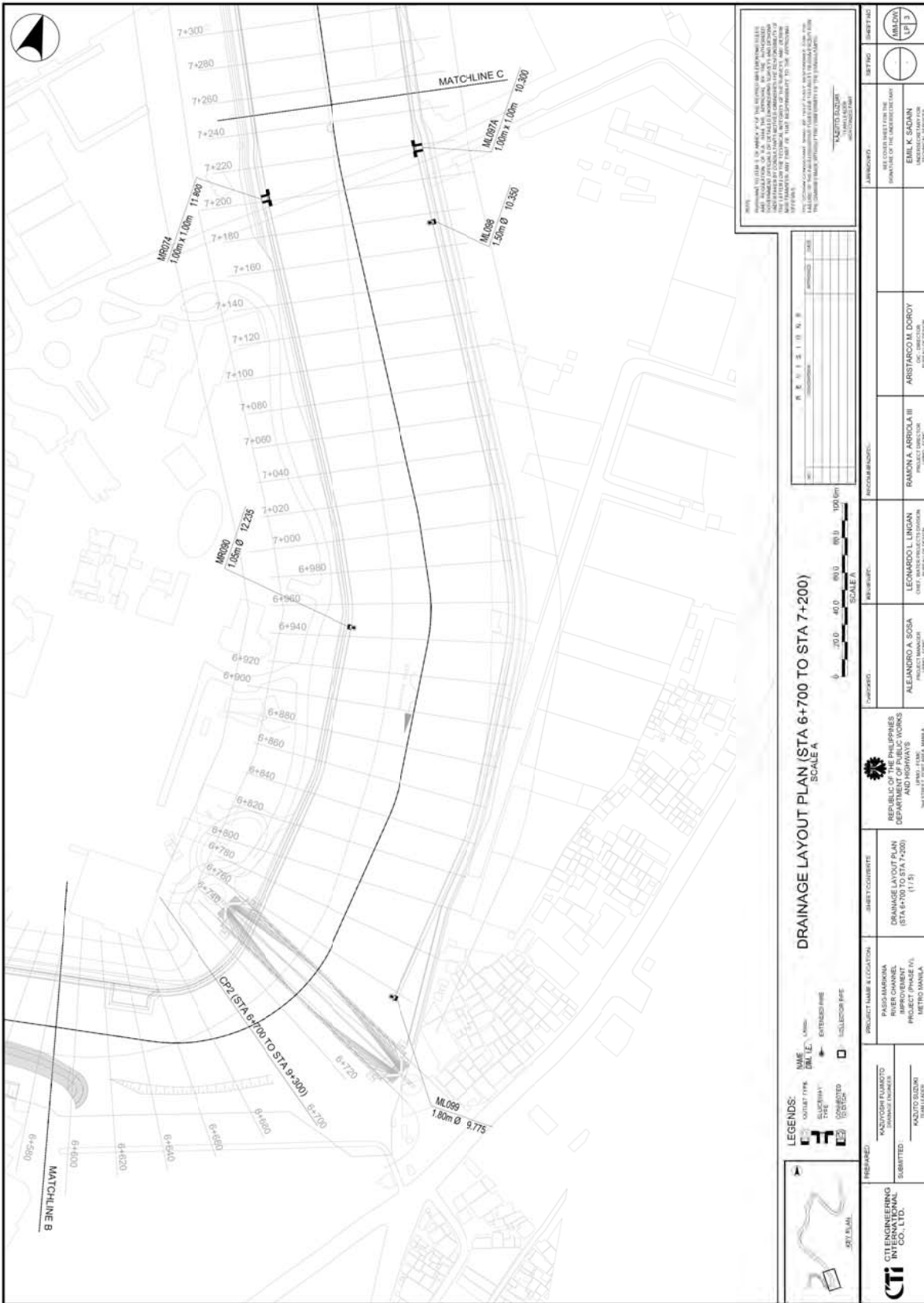
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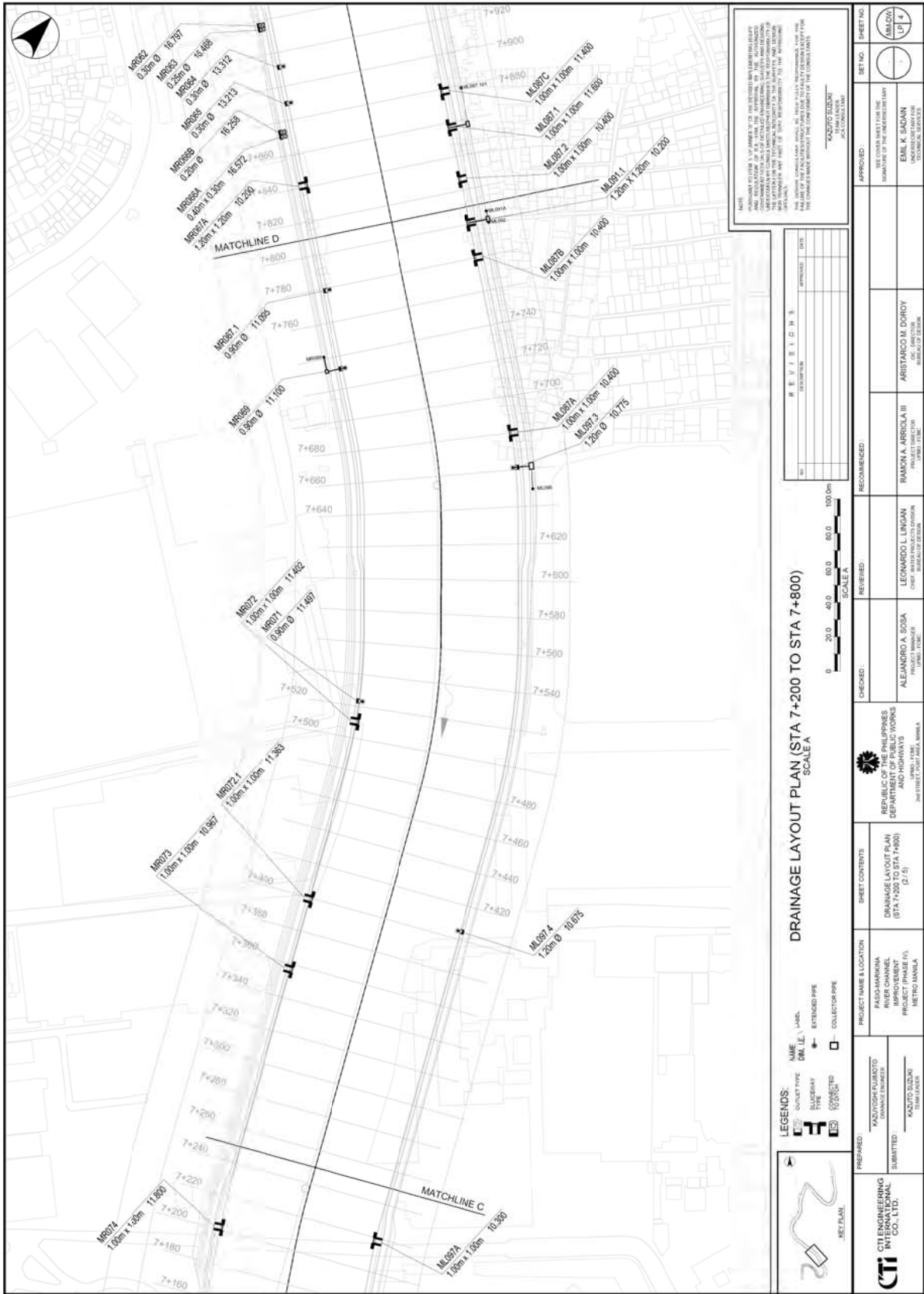
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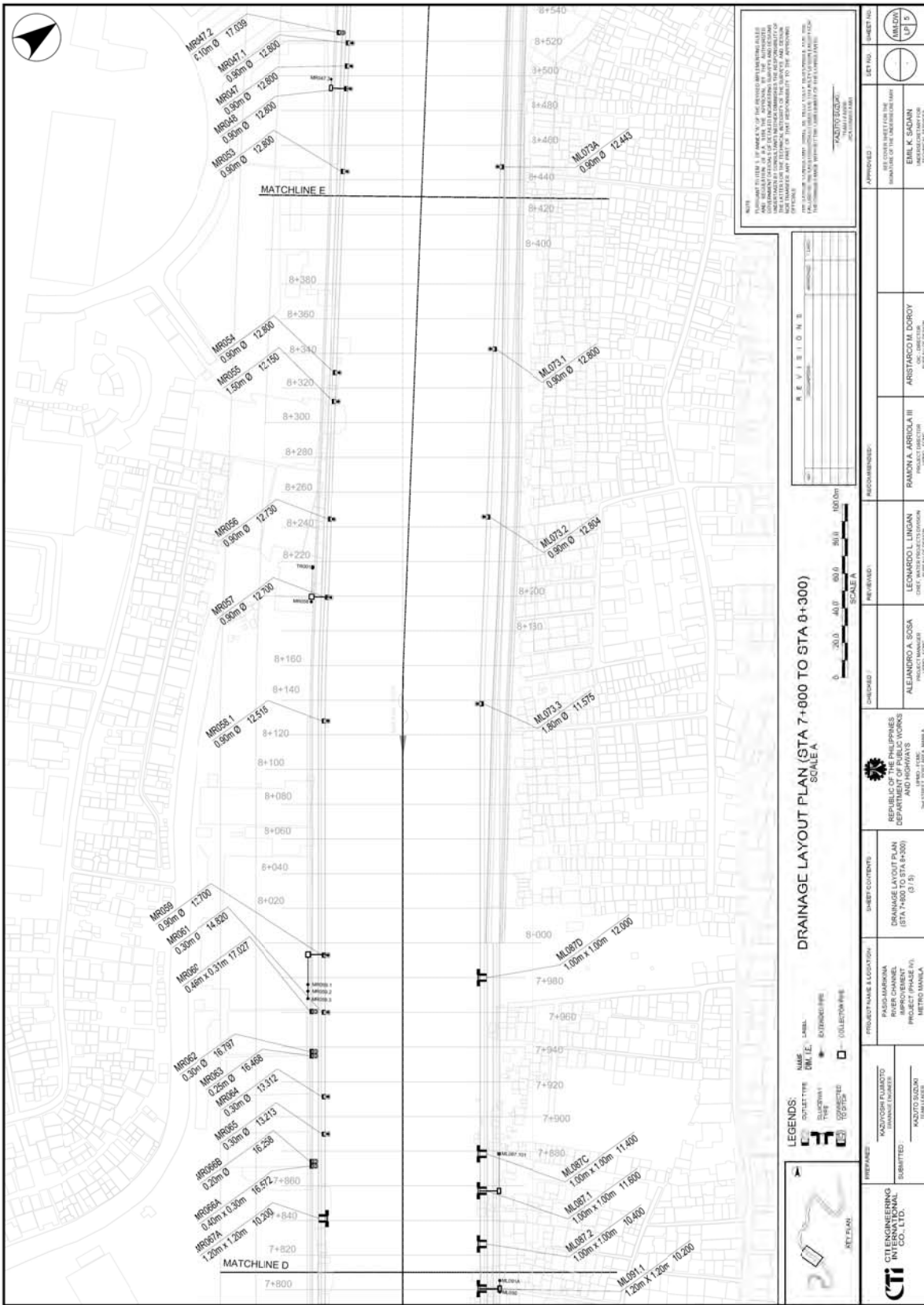
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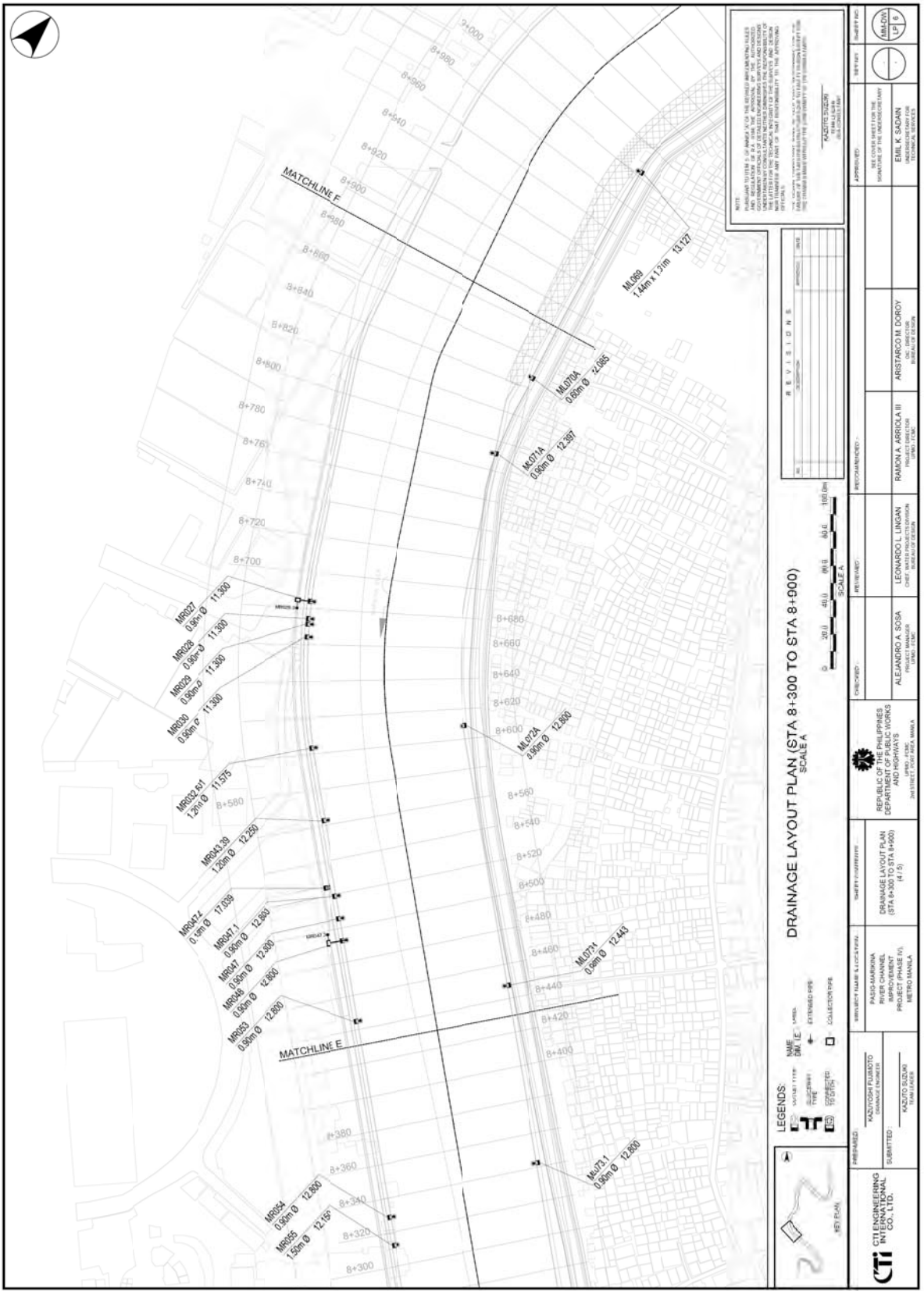
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Appendix Figure 6.2.2 (5/13) Drainage Layout Plan (Sta. 7+800 – Sta. 8+300)



NOTE: THIS DRAWING IS PREPARED AND CHECKED BY THE ENGINEERING OFFICE OF THE PROJECT AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ENGINEERING OFFICE. THE DESIGNER AND THE ENGINEERING OFFICE SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE INFORMATION CONTAINED HEREIN.

LEGENDS:
 - 1.5m DIA (1.5m) : 150mm
 - 1.2m DIA (1.2m) : 120mm
 - 0.9m DIA (0.9m) : 90mm
 - 0.6m DIA (0.6m) : 60mm
 - 0.3m DIA (0.3m) : 30mm
 - EXTENDED PIPE :

STAFF:
 PREPARED: CTE ENGINEERING & CONSULTANTS, INC.
 SUBMITTED:

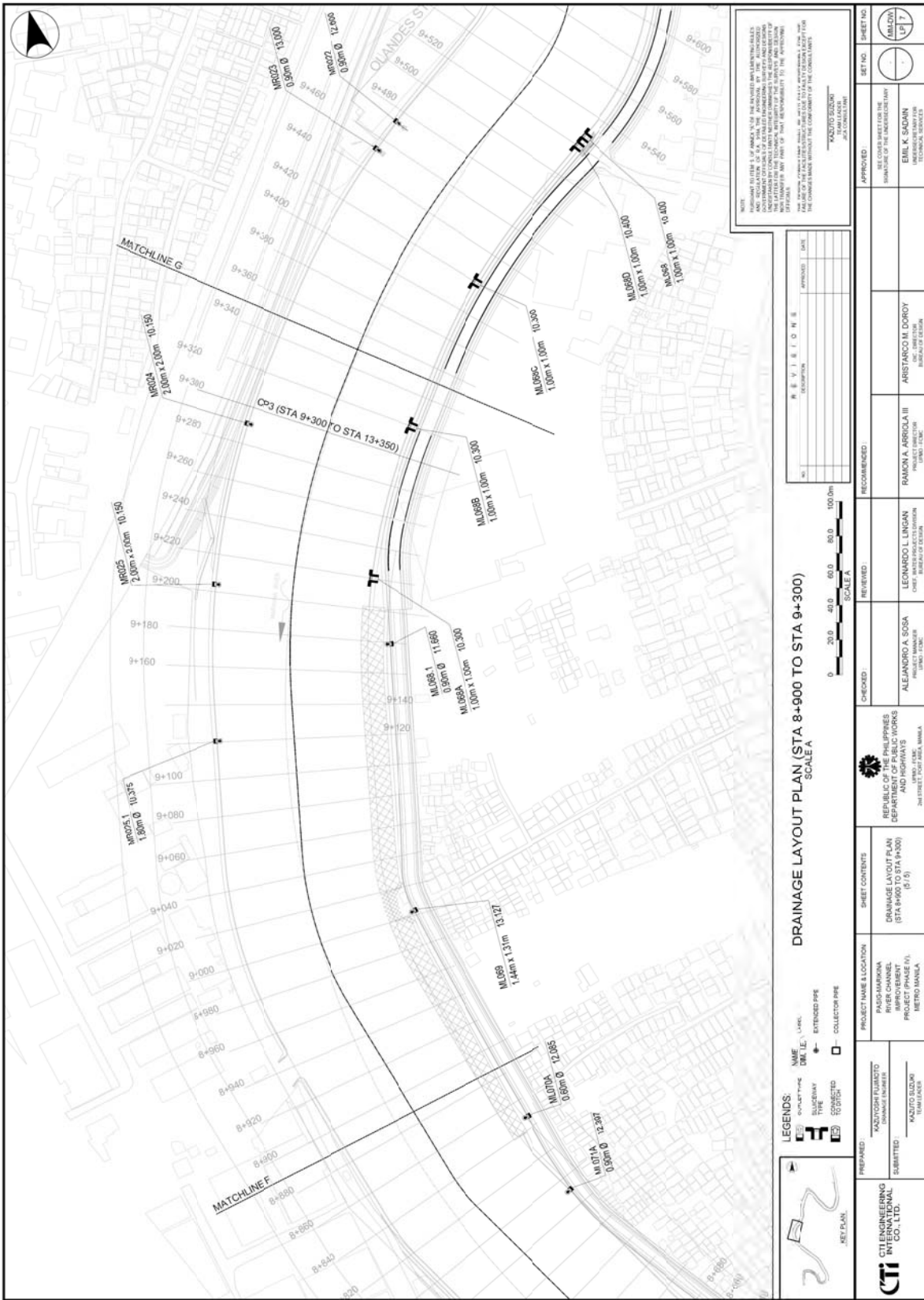
REVISIONS:
 NO. | DESCRIPTION | DATE

APPROVED:	DESIGNED BY:	CHECKED BY:	DATE:
 RAMON A. ARRICOLA III PROJECT ENGINEER	 LEONARDO L. LINGAN PROJECT ENGINEER	 ALEJANDRO A. SODA PROJECT ENGINEER	 ARSTARCOM M. DOROY PROJECT ENGINEER
APPROVED:	DESIGNED BY:	DATE:	DATE:
 ERLK K. SADAN PROJECT ENGINEER	 RAMON A. ARRICOLA III PROJECT ENGINEER	 LEONARDO L. LINGAN PROJECT ENGINEER	 ARSTARCOM M. DOROY PROJECT ENGINEER

PROJECT INFORMATION:
 PROJECT NAME & LOCATION: PASHO-SARINIA WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT (PHASE IV), METRO MANILA
 PROJECT NO: CTA-A300 TO STA 8+900 (4.5)
 CLIENT: REPUBLIC OF THE PHILIPPINES, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, DIVISION OFFICE - METRO MANILA, DIVISION OFFICE - PASAY CITY, DIVISION OFFICE - SANTA FE, DIVISION OFFICE - MALABON, DIVISION OFFICE - MARICORIN, DIVISION OFFICE - RIZAL, DIVISION OFFICE - TAVAGANHAN

SCALE:
 1:1000 (HORIZONTAL)
 1:100 (VERTICAL)

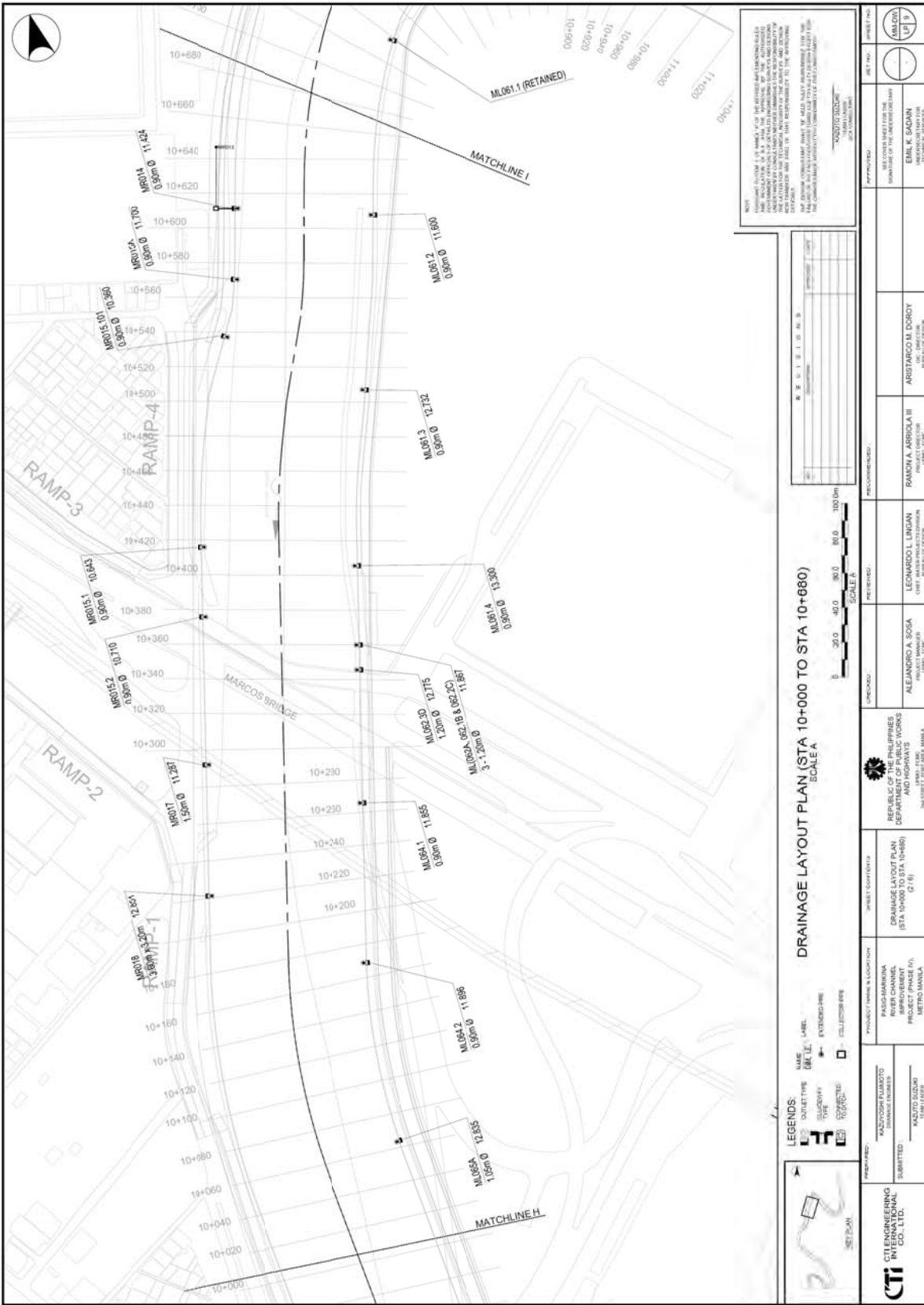
Appendix Figure 6.2.2 (6/13) Drainage Layout Plan (Sta. 8+300 – Sta. 8+900)



Appendix Figure 6.2.2 (7/13) Drainage Layout Plan (Sta. 8+900 – Sta. 9+300)



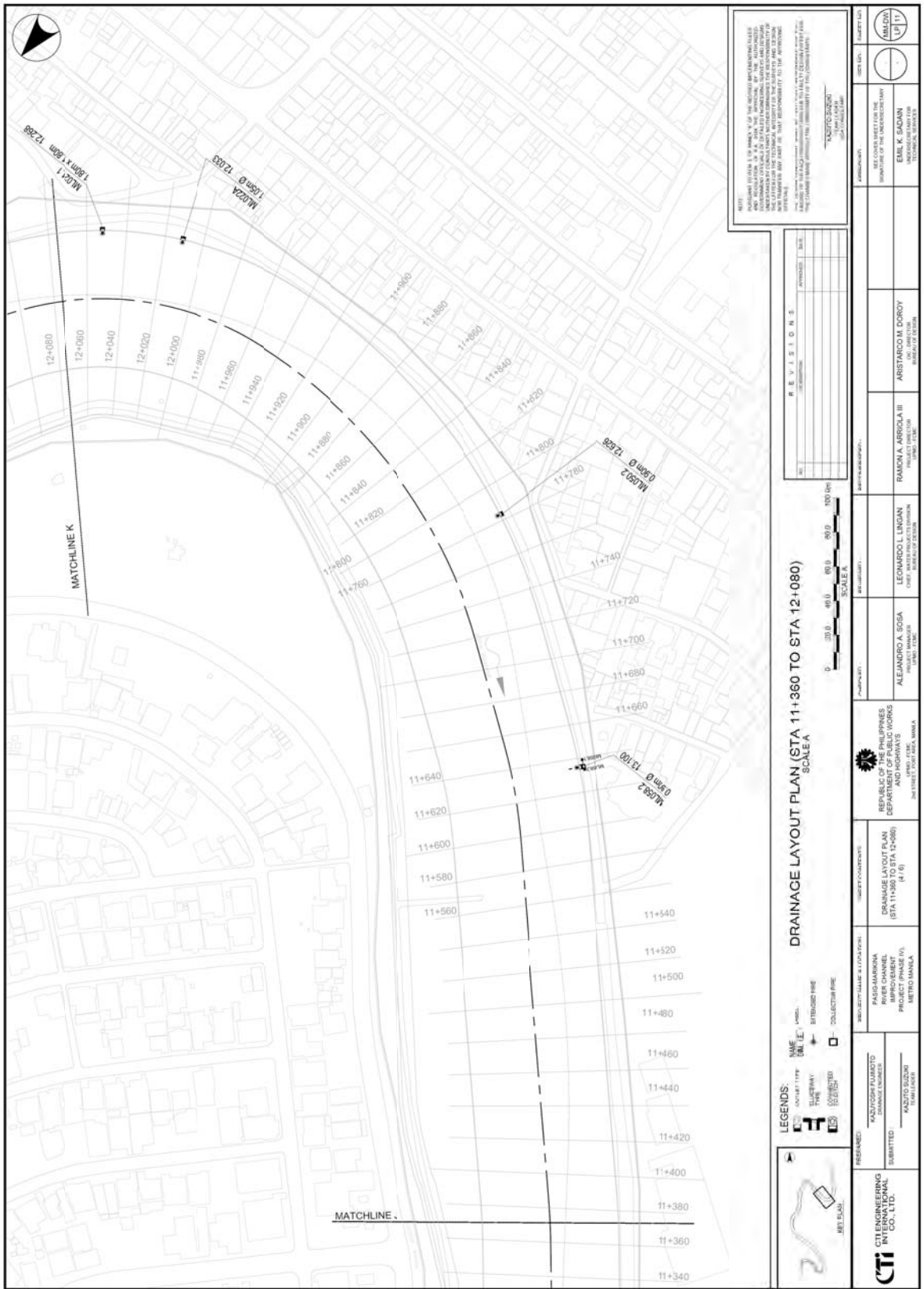
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Appendix Figure 6.2.2 (9/13) Drainage Layout Plan (Sta. 10+000 – Sta. 10+680)



Appendix Figure 6.2.2 (10/13) Drainage Layout Plan (Sta. 10+680 – Sta. 11+360)



Appendix Figure 6.2.2 (11/13) Drainage Layout Plan (Sta. 11+360 – Sta. 12+080)



NOTE: THIS PLAN IS FOR THE MAINTENANCE OF THE EXISTING DRAINAGE SYSTEM AND IS NOT A DESIGN FOR THE CONSTRUCTION OF NEW DRAINAGE STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY NEW DRAINAGE STRUCTURES REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES UNDERGROUND AND ABOVEGROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES UNDERGROUND AND ABOVEGROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.

REVISIONS

NO.	DATE	DESCRIPTION

SCALE 1:100

100 80.0 60.0 40.0 20.0 0

SCALE A

PROJECT NAME & LOCATION

PASIG-JARARINA RIVER CHANNEL IMPROVEMENT PROJECT (PHASE IV) METRO MANILA

PROJECT NO. 12-000

DATE: 12/13/2019

PREPARED BY: KAZUYUKI FUJIKOTO

CHECKED BY: KAZUYUKI FUJIKOTO

DESIGNED BY: KAZUYUKI FUJIKOTO

DRAWN BY: KAZUYUKI FUJIKOTO

PROJECT NO. 12-000

DATE: 12/13/2019

SCALE: 1:100

PROJECT TITLE: PASIG-JARARINA RIVER CHANNEL IMPROVEMENT PROJECT (PHASE IV) METRO MANILA

PROJECT NO. 12-000

DATE: 12/13/2019

PROJECT NO. 12-000

DATE: 12/13/2019

SCALE: 1:100

PROJECT TITLE: PASIG-JARARINA RIVER CHANNEL IMPROVEMENT PROJECT (PHASE IV) METRO MANILA

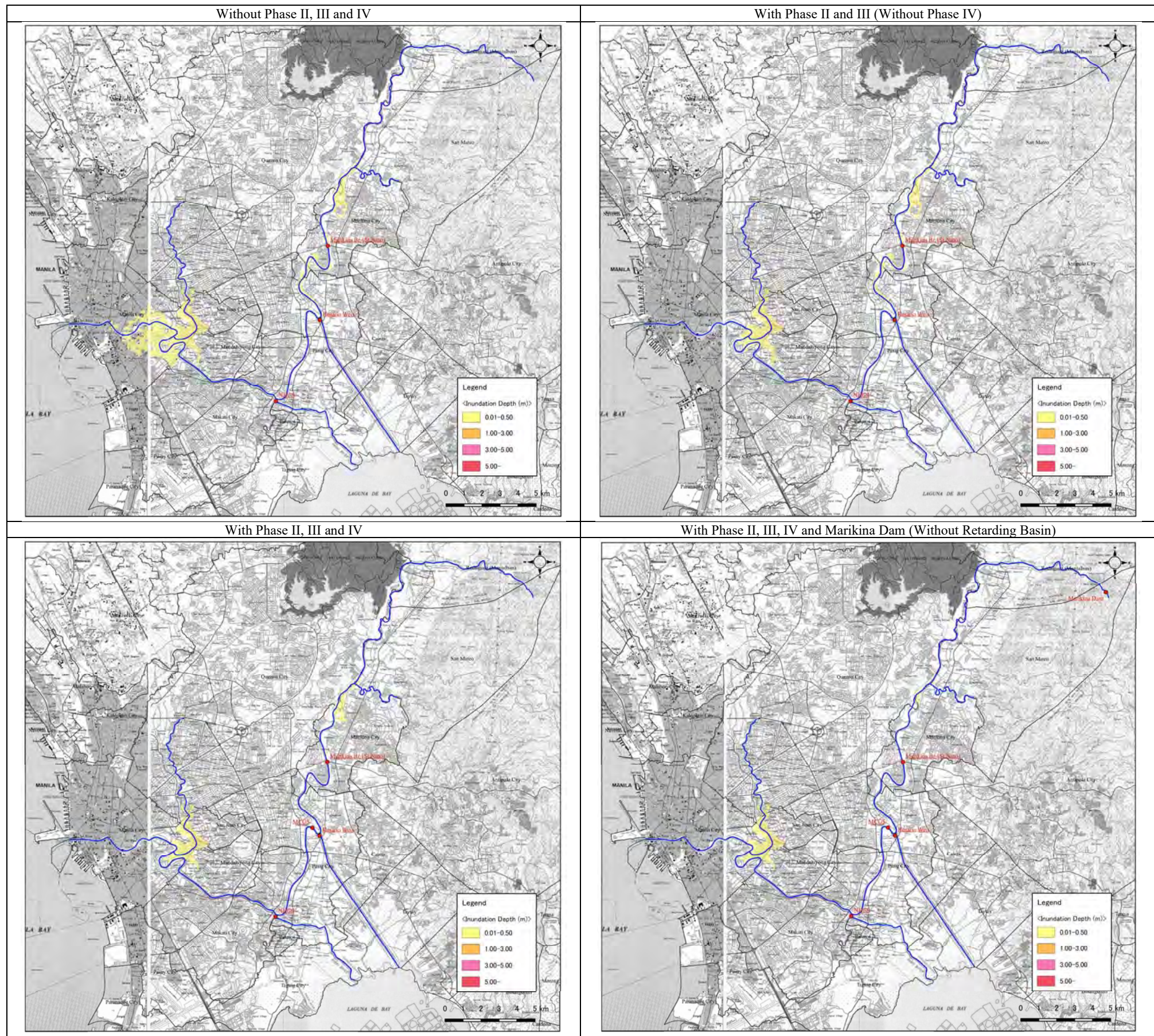
PROJECT NO. 12-000

DATE: 12/13/2019

Appendix Figure 6.2.2 (12/13) Drainage Layout Plan (Sta. 12+080 – Sta. 12+720)

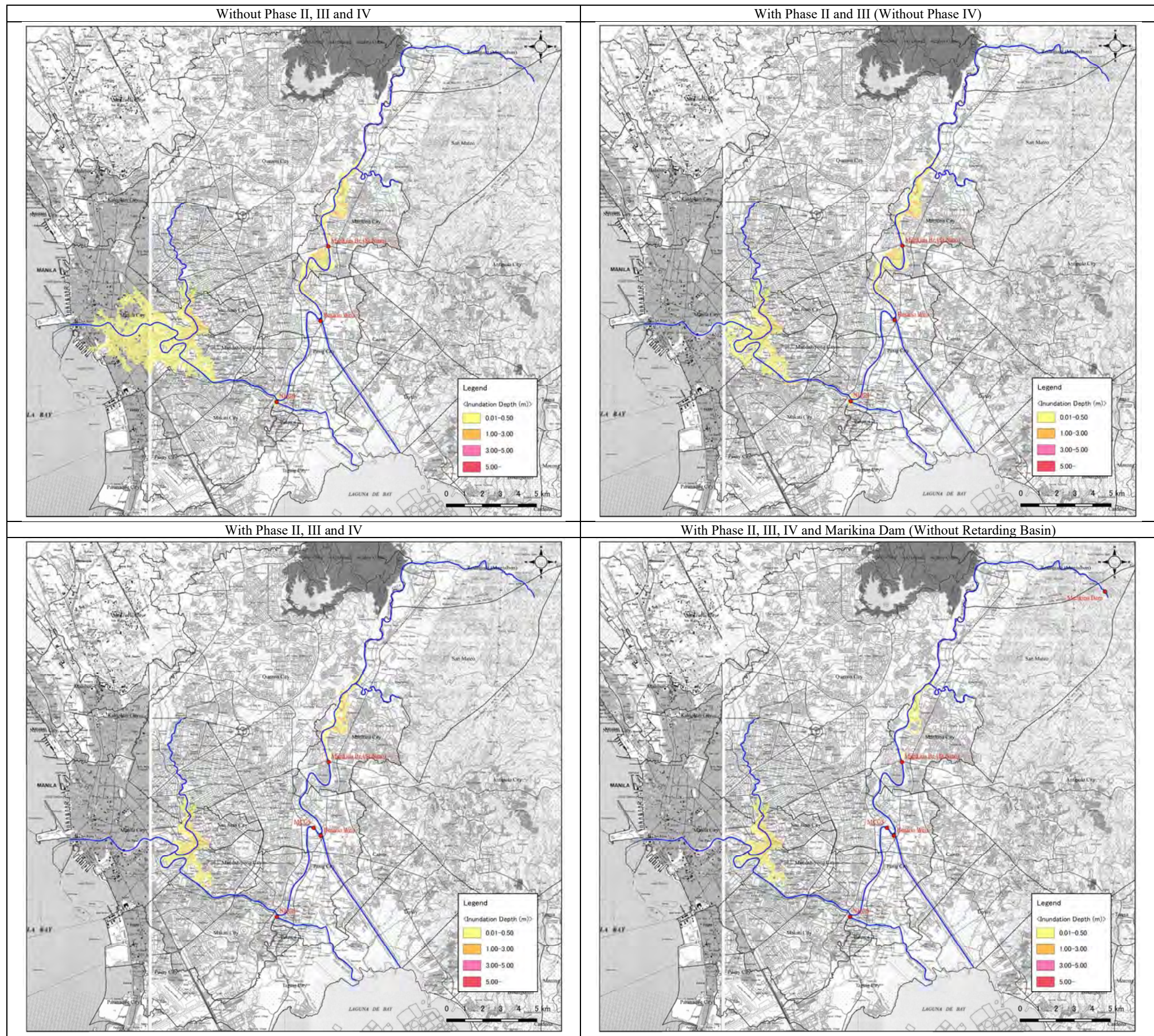


Appendix Figure 6.2.2 (13/13) Drainage Layout Plan (Sta. 12+720 – Sta. 13+350)



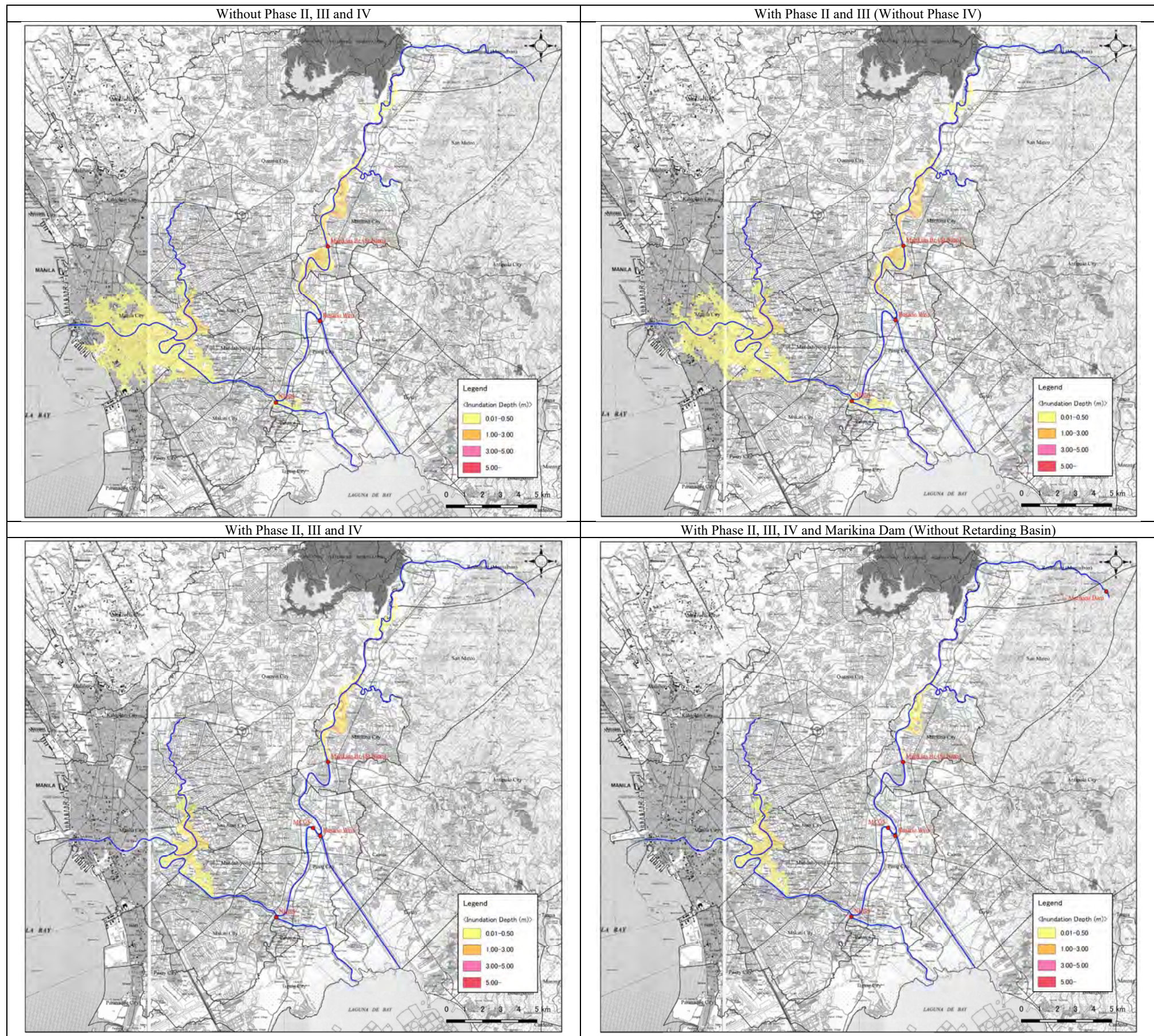
Source: Study Team

Figure 14.1 Comparison of Inundation Area (2-year Flood)



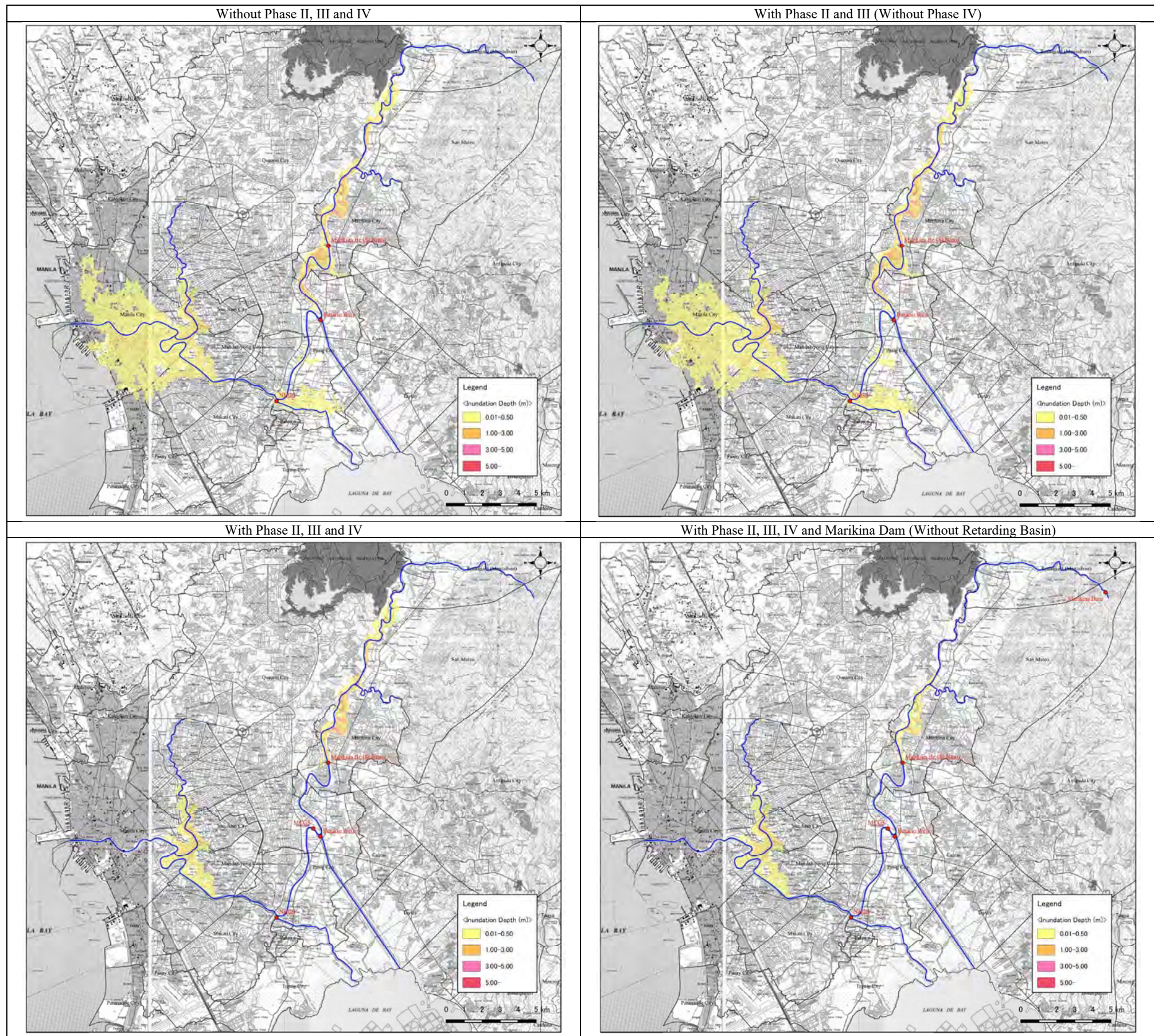
Source: Study Team

Figure 14.2 Comparison of Inundation Area (5-year Flood)



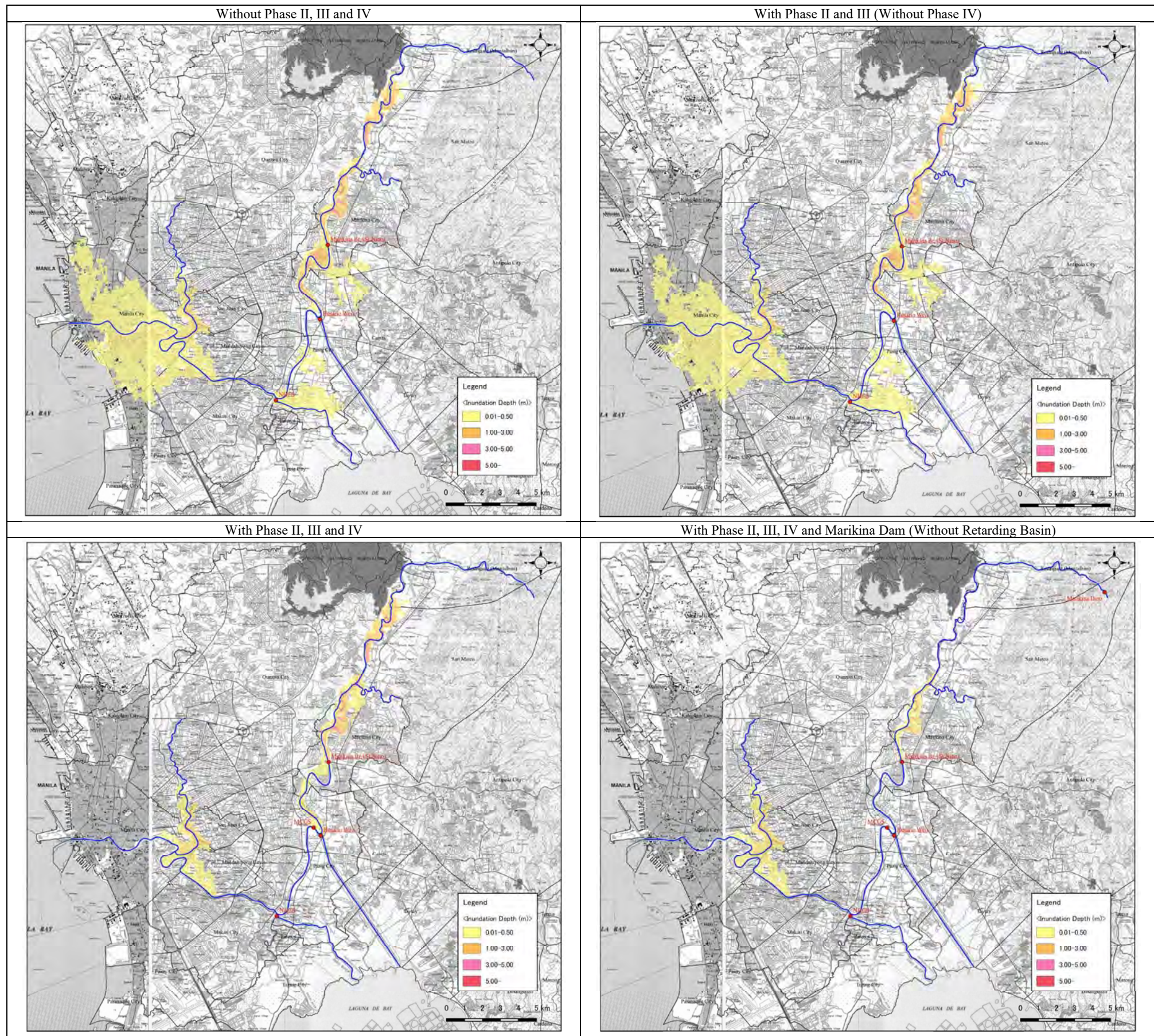
Source: Study Team

Figure 14.3 Comparison of Inundation Area (10-year Flood)



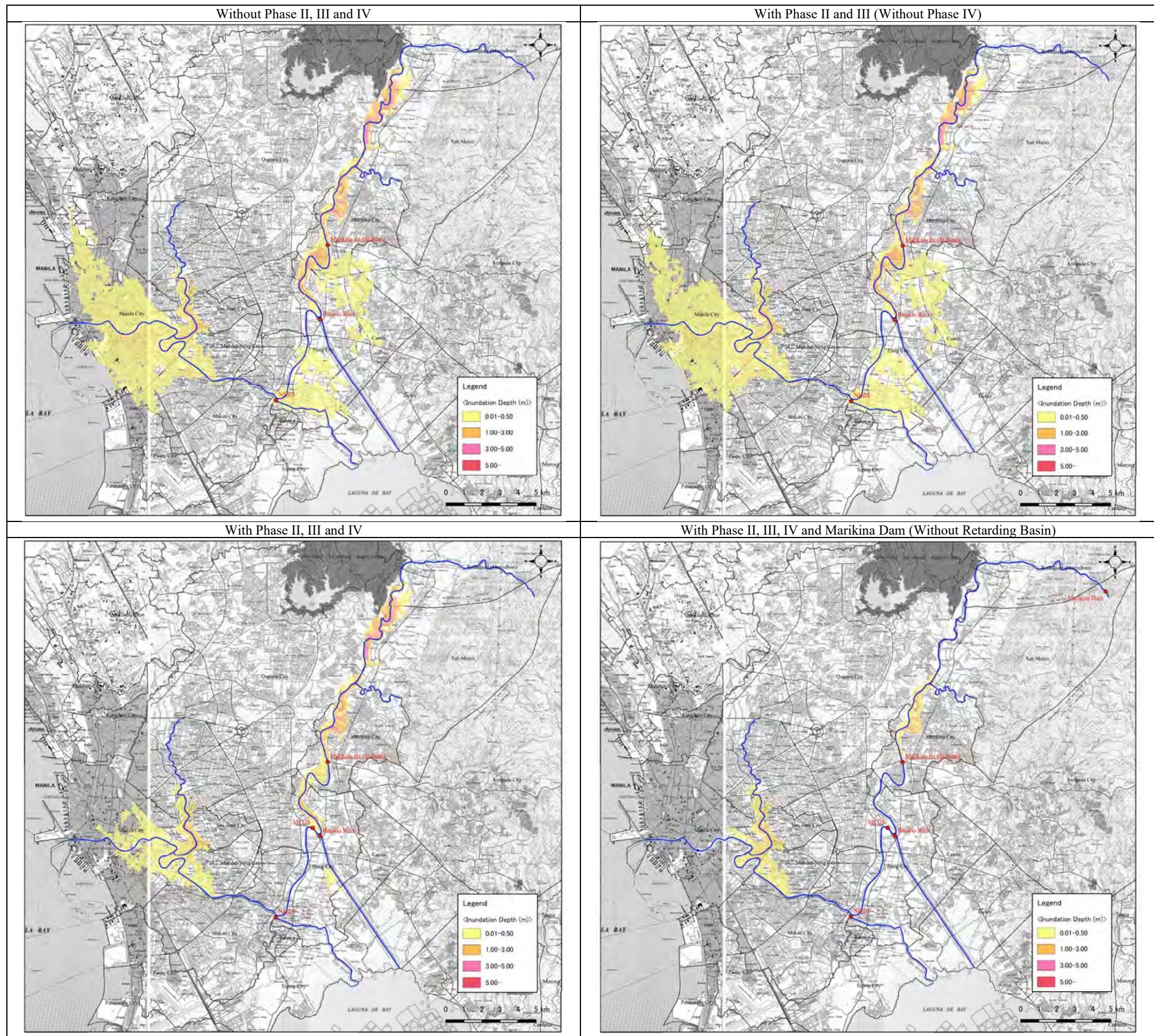
Source: Study Team

Figure 14.4 Comparison of Inundation Area (20-year Flood)



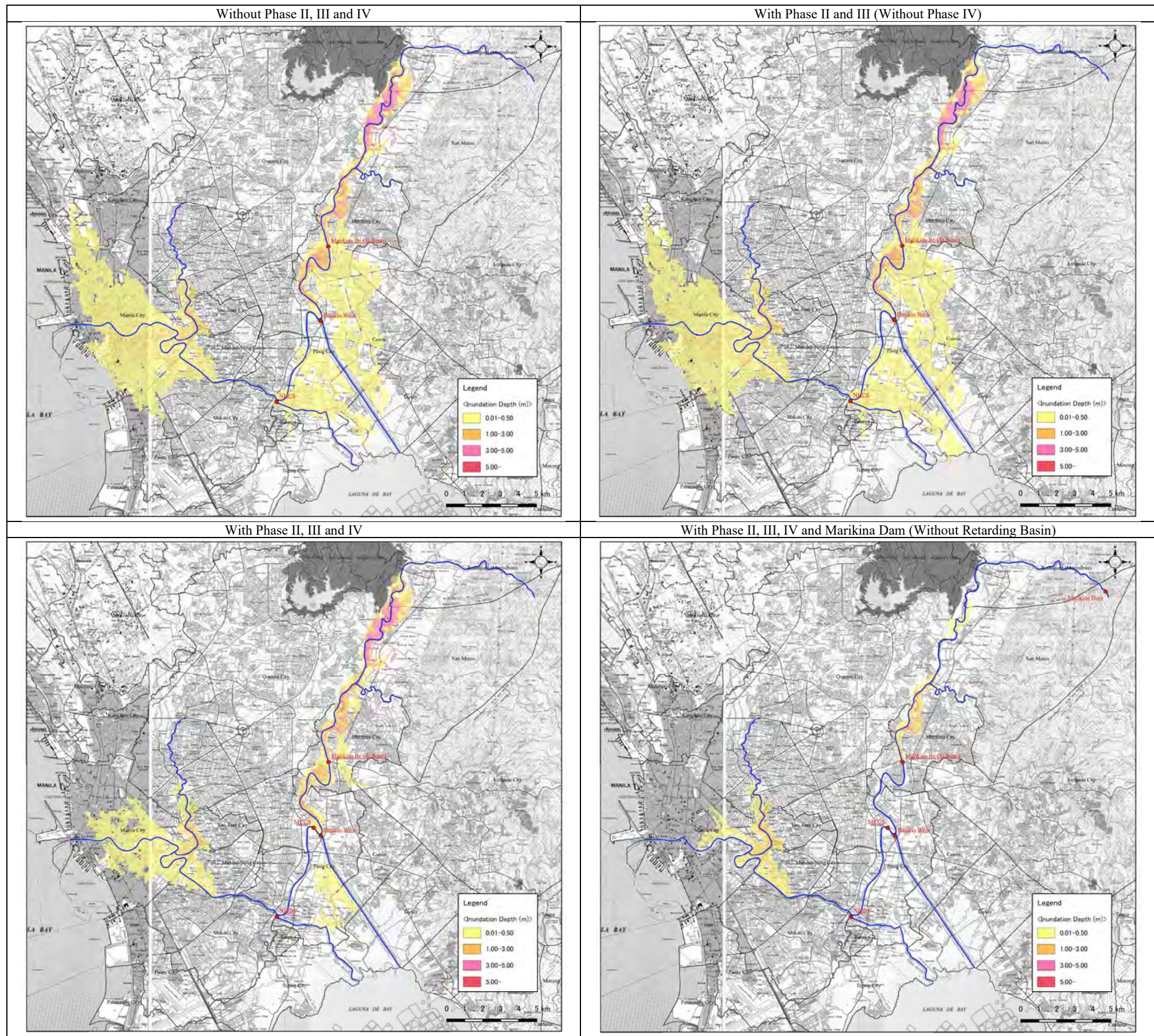
Source: Study Team

Figure 14.5 Comparison of Inundation Area (30-year Flood)



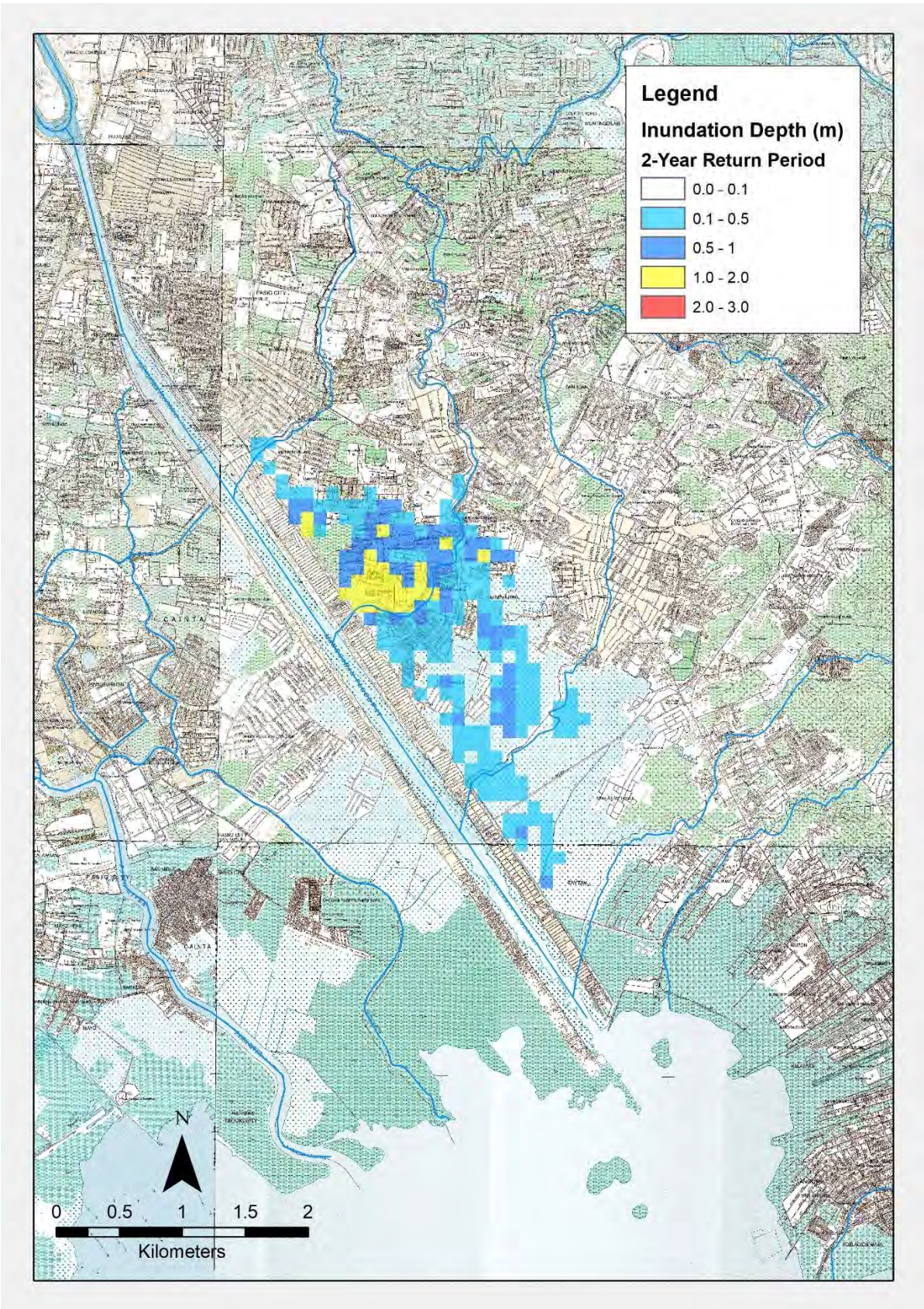
Source: Study Team

Figure 14.6 Comparison of Inundation Area (50-year Flood)



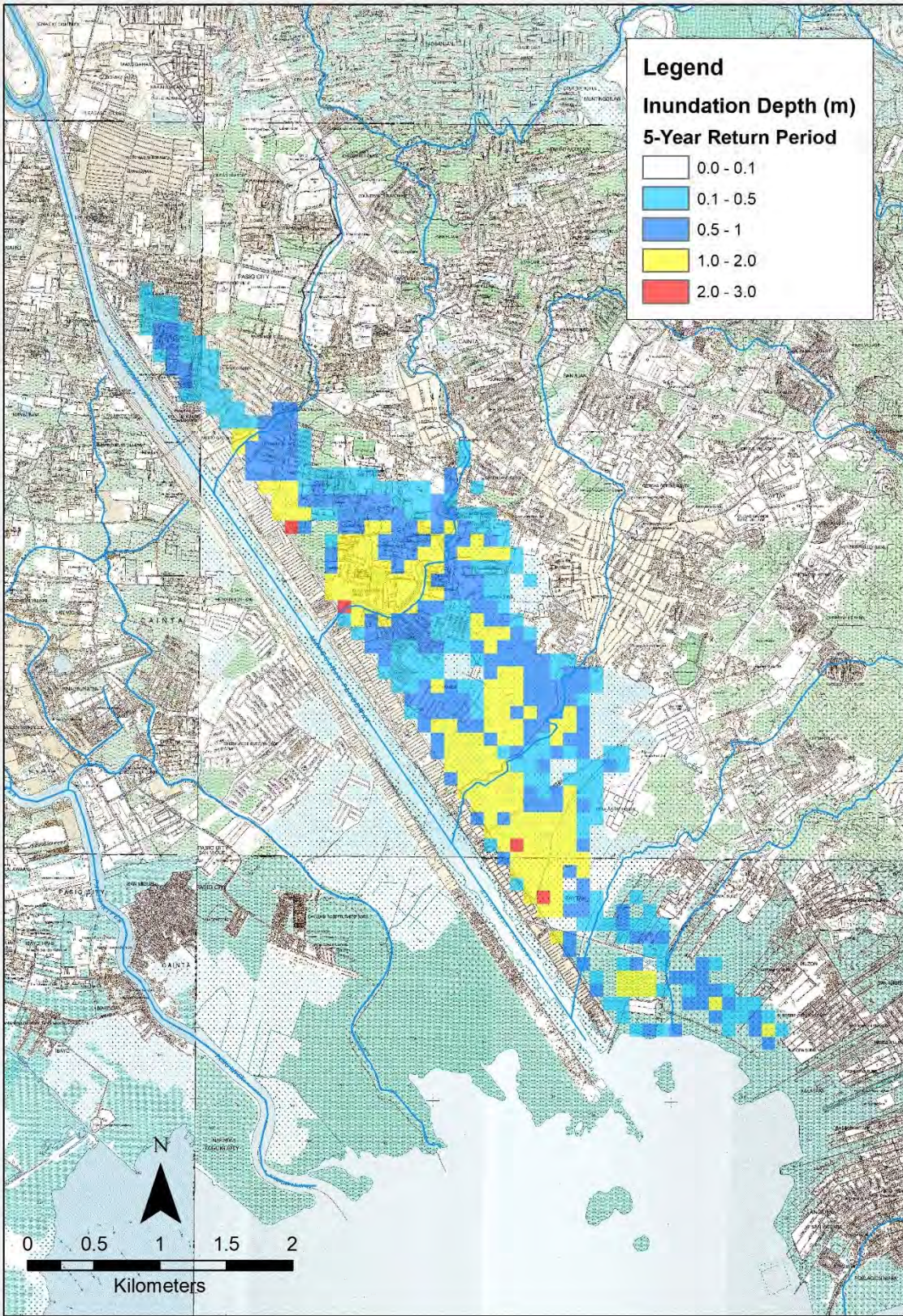
Source: Study Team

Figure 14.7 Comparison of Inundation Area (100-year Flood)



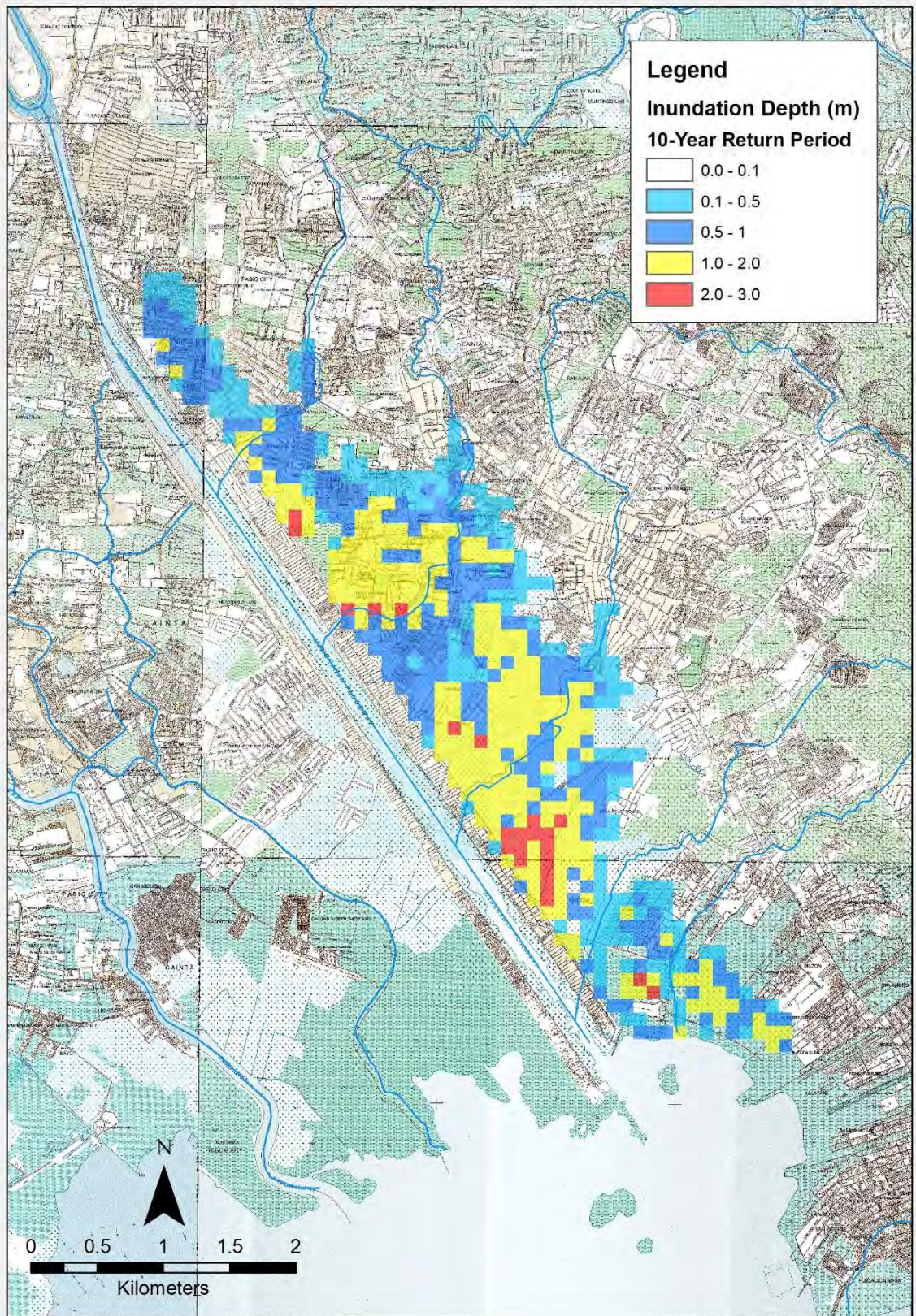
Source: Implementation Program

Figure 14.8 Inundation Area (2-year Flood)



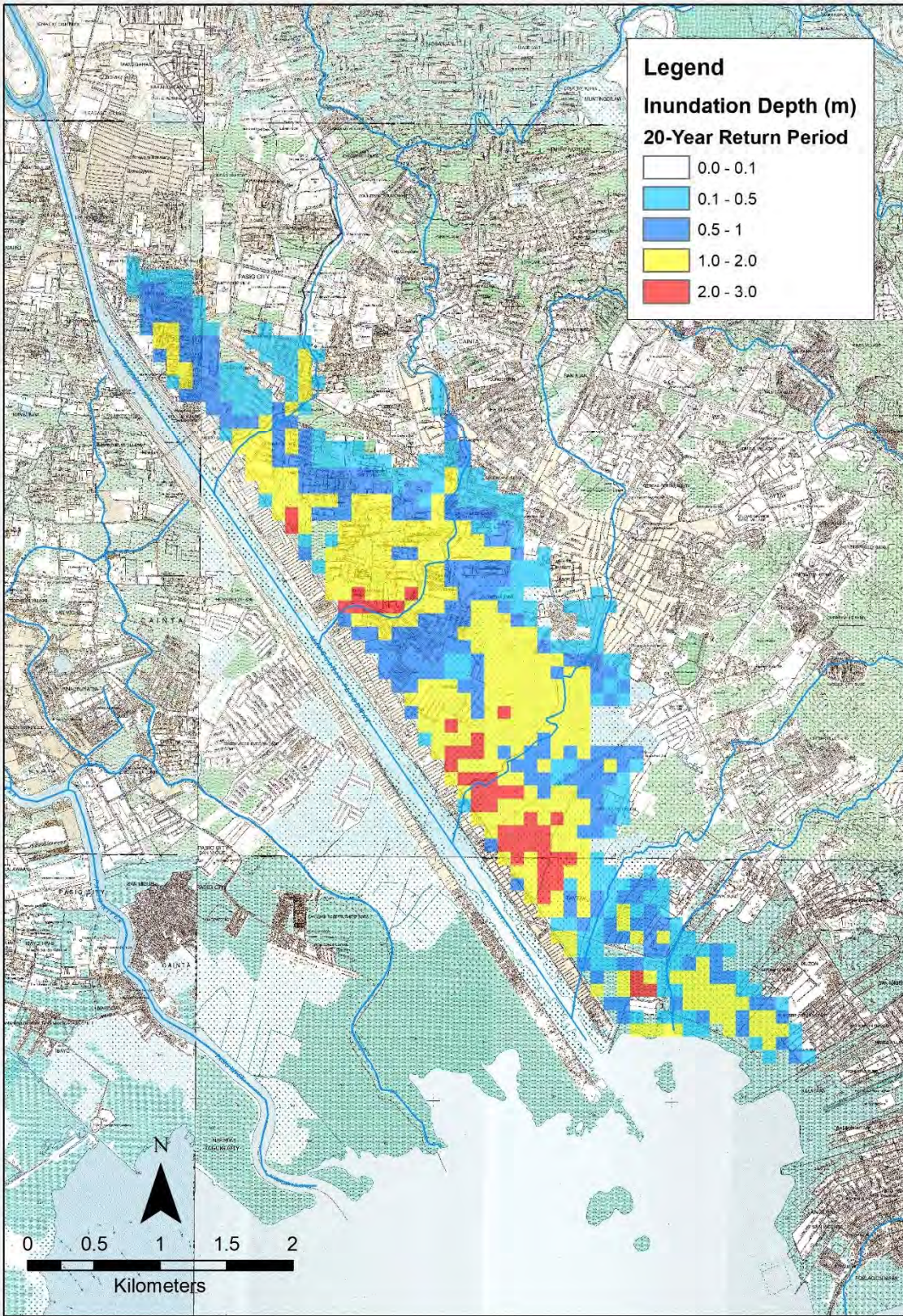
Source: Implementation Program

Figure 14.9 Inundation Area (5-year Flood)



Source: Implementation Program

Figure 14.10 Inundation Area (10-year Flood)



Source: Implementation Program

Figure 14.11 Inundation Area (20-year Flood)

TABLES

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (1/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR001A Northing= 1618661.915 Easting= 509853.144 Elevation= 11.606 Dimension= D450mm T50mm Type= RC Date= 2020/1/8 Station no.= 13+327</p> <p>REMARKS: CLOGGED RC inside BC BC dimensions: H: 550mm W: 800mm Distance from mouth of BC to RC: 2 meters</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR002A Northing= 1618618.9 Easting= 509862.436 Elevation= 12.309 Dimension= D450mm T85mm Type= RC Date= 2019/10/2 Station no.= 13+283</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR003 Northing= 1618572.76 Easting= 509873.784 Elevation= 11.931 Dimension= D450mm T80mm Type= RC Date= 2019/10/8 Station no.= 13+236</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.1 Northing= 1618552.032 Easting= 509877.448 Elevation= 12.254 Dimension= D570mm T70mm Type= RC Date= 2019/6/18 Station no.= 13+215</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.2 Northing= 1618526.831 Easting= 509885.993 Elevation= 11.801 Dimension= D50mm Type= RC Date= 2019/10/18 Station no.= 13+188</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.3 Northing= 1618517.027 Easting= 509888.093 Elevation= 11.5 Dimension= D50mm Type= PVC Date= 2019/10/18 Station no.= 13+178</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (2/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.4 Northing= 1618508.088 Easting= 509890.399 Elevation= 10.984 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+169</p> <p>Remarks:</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.5 Northing= 1618497.537 Easting= 509892.562 Elevation= 11.485 Dimension= D50mm Type= PVC Date= 2019/10/18 Station no.= 13+158</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.6 Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p> <p>Remarks: Underwater during observation Photo will be added when water level decreases</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.8 Northing= 1618480.047 Easting= 509896.832 Elevation= 10.746 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+140</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.9 Northing= 1618470.153 Easting= 509898.61 Elevation= 11.701 Dimension= D50mm Type= PVC Date= 2019/10/18 Station no.= 13+130</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.10 Northing= 1618467.774 Easting= 509899.777 Elevation= 12.907 Dimension= D300mm T70mm Type= RC Date= 2019/9/3 Station no.= 13+128</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (3/30)


<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.101 Northing= 1618459.858 Easting= 509900.95 Elevation= 11.672 Dimension= D50mm Type= PVC Date= 2019/11/29 Station no.= 13+119</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.102 Northing= 1618448.95 Easting= 509903.264 Elevation= 11.66 Dimension= D30mm Type= PVC Date= 2019/10/22 Station no.= 13+108</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.103 Northing= 1618438.607 Easting= 509905.146 Elevation= 11.93 Dimension= D50mm Type= PVC Date= 2019/10/23 Station no.= 13+097</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.104 Northing= 1618426.862 Easting= 509906.512 Elevation= 11.657 Dimension= D50mm Type= PVC Date= 2019/11/29 Station no.= 13+085</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.105 Northing= 1618417.173 Easting= 509907.733 Elevation= 11.553 Dimension= D50mm Type= PVC Date= 2019/10/18 Station no.= 13+075</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.11 Northing= 1618406.23 Easting= 509909.015 Elevation= 11.53 Dimension= D30mm Type= PVC Date= 2019/10/23 Station no.= 13+064</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (4/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.12 Northing= 1618395.363 Easting= 509910.544 Elevation= 11.297 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+054</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR003.13 Northing= 1618384.794 Easting= 509911.758 Elevation= 11.012 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+043</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR004A Northing= 1618387.071 Easting= 509902.024 Elevation= 12.725 Dimension= D980mm T100mm Type= RC Date= 2019/10/19 Station no.= 13+046</p> <p>REMARKS RC is inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR004.1 Northing= 1618374.492 Easting= 509912.662 Elevation= 10.959 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+033</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR004.2 Northing= 1618363.443 Easting= 509913.62 Elevation= 11.167 Dimension= D50mm Type= PVC Date= 2019/6/17 Station no.= 13+021</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR004.3 Northing= 1618352.055 Easting= 509914.629 Elevation= 12.611 Dimension= D450mm T80mm Type= RC Date= 2019/6/17 Station no.= 13+010</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (5/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR004.4 Northing= 1618080.379 Easting= 509923.747 Elevation= 13.692 Dimension= D50mm Type= PVC Date= 2019/6/18 Station no.= 12+739</p> <p>Remarks: Covered by soil</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR004.5 Northing= 1618079.262 Easting= 509923.842 Elevation= 13.682 Dimension= D50mm Type= PVC Date= 2019/6/18 Station no.= 12+738</p> <p>Remarks: Covered by soil</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>CROSS SECTION</p> <p>Drainage Outlet No.= MR005 Northing= 1618079.924 Easting= 509923.546 Elevation= 13.807 Dimension= W1900mm H2050mm Type= BC Date= 2019/10/19 Station no.= 12+739</p>
<p>Photo (Distant View)</p> 	<p>Photo (Short Range View)</p> 	<p>Drainage Outlet No.= MR006A Northing= 1618030.222 Easting= 509116.002 Elevation= 12.359 Dimension= H1500mm W2050mm Type= BC Date= 2019/10/23 Station no.= 10+979</p>
<p>Photo (Distant View)</p> 	<p>Photo (Short Range View)</p> 	<p>Drainage Outlet No.= MR006B Northing= 1618031.957 Easting= 509114.482 Elevation= 12.321 Dimension= H1500mm W2050mm Type= BC Date= 2019/10/23 Station no.= 10+977</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR006.1 Northing= 1618033.426 Easting= 509119.54 Elevation= 19.966 Dimension= D530mm Type= SP Date= 2019/10/11 Station no.= 10+979</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (6/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR006.2 Northing= 1618036.564 Easting= 509117.147 Elevation= 19.875 Dimension= D530mm Type= SP Date= 2019/10/11 Station no.= 10+975</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR007 Northing= 1618028.233 Easting= 509087.614 Elevation= 11.608 Dimension= D1200mm Type= RC Date= 2019/10/22 Station no.= 10+965</p> <p>REMARKS MR007 elevation is not equal to MR008 elevation</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR008 Northing= 1618029.292 Easting= 509086.7559 Elevation= 11.254 Dimension= D1200mm Type= RC Date= 2019/6/13 Station no.= 10+964</p> <p>REMARKS MR007 elevation is not equal to MR008 elevation</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR009A Northing= 1618047.719 Easting= 509053.68 Elevation= 12.67 Dimension= D600mm Type= RC Date= 2019/10/31 Station no.= 10+935</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR009.1 Northing= 1618097.061 Easting= 508902.953 Elevation= 10.745 Dimension= D1800mm Type= RC Date= 2019/10/11 Station no.= 10+804</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR010 Northing= 1618044.502 Easting= 508823.166 Elevation= 11.007 Dimension= H1360mm W2000mm Type= BC Date= 2019/10/11 Station no.= 10+726</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (7/30)











<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR013 Northing= 1617959.021 Easting= 508780.528 Elevation= 11.94 Dimension= D80mm Type= PVC Date= 2019/10/20 Station no.= 10+645</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR014 Northing= 1617929.173 Easting= 508756.44 Elevation= 16.017 Dimension= H470mm W470mm Type= BC Date= 2019/6/13 Station no.= 10+610</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR015A Northing= 1617886.822 Easting= 508755.923 Elevation= 12.548 Dimension= D700mm T100mm Type= RC Date= 2019/10/11 Station no.= 10+569</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR015.1 Northing= 1617738.032 Easting= 508711.6787 Elevation= 10.643 Dimension= D700mm T100mm Type= RC Date= 2019/6/13 Station no.= 10+414</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR015.101 Northing= 1617853.686 Easting= 508748.428 Elevation= 10.5622 Dimension= D700mm T100mm Type= RC Date= 2019/6/13 Station no.= 10+536</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR015.2 Northing= 1617700.773 Easting= 508699.2339 Elevation= 10.9142 Dimension= D700mm T100mm Type= RC Date= 2019/6/13 Station no.= 10+375</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (8/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR016 Northing= 1617659.907 Easting= 508684.078 Elevation= 11.593 Dimension= H1140mm W2630mm Type= BC Date= 2019/10/20 Station no.= 10+331</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR017 Northing= 1617619.436 Easting= 508675.282 Elevation= 11.287 Dimension= D1500mm T1500mm Type= RC Date= 2019/10/11 Station no.= 10+292</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>CROSS SECTION</p> <p>Drainage Outlet No.= MR018 Northing= 1617551.445 Easting= 508635.232 Elevation= 12.851 Dimension= H4180mm W3900mm Type= BC Date= 2019/12/19 Station no.= 10+221</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR019 Northing= 1617227.46 Easting= 508635.693 Elevation= 11.856 Dimension= D640mm T80mm Type= RC Date= 2019/10/19 Station no.= 9+903</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR020 Northing= 1617210.548 Easting= 508634.704 Elevation= 11.778 Dimension= D900mm T110mm Type= RC Date= 2019/10/19 Station no.= 9+886</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR021 Northing= 1617165.169 Easting= 508627.422 Elevation= 11.736 Dimension= D760mm T80mm Type= RC Date= 2019/10/22 Station no.= 9+840</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (9/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR021.1 Northing= 1617101.156 Easting= 508620.834 Elevation= 13.189 Dimension= D1020mm T80mm Type= RC Date= 2019/8/13 Station no.= 9+774</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR021.2 Northing= 1616989.49 Easting= 508590.312 Elevation= 12.4522 Dimension= D800mm T100mm Type= RC Date= 2019/7/19 Station no.= 9+638</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR021.3 Northing= 1616944.141 Easting= 508548.098 Elevation= 12.3185 Dimension= D900mm T100mm Type= RC Date= 2019/7/19 Station no.= 9+569</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR021.301 Northing= 1616941.041 Easting= 508551.6347 Elevation= 11.2985 Dimension= D390mm T90mm Type= RC Date= 2019/7/19 Station no.= 9+570</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR021.302 Northing= 1616945.609 Easting= 508549.0274 Elevation= 12.4522 Dimension= D900mm T80mm Type= RC Date= 2019/7/19 Station no.= 9+571</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR022 Northing= 1616885.908 Easting= 508468.563 Elevation= 12.855 Dimension= D350mm T25mm Type= RC Date= 2019/10/20 Station no.= 9+471</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (10/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR023 Northing= 1616877.697 Easting= 508450.545 Elevation= 13.074 Dimension= D920mm Type= RC Date= 2019/10/20 Station no.= 9+453</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR024 Northing= 1616739.303 Easting= 508346.011 Elevation= 11.057 Dimension= H2030mm W2520mm Type= BC Date= 2019/10/20 Station no.= 9+291</p> <p>REMARKS No other drainage inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR025 Northing= 1616658.151 Easting= 508292.814 Elevation= 12.044 Dimension= H2180mm W690mm Type= BC Date= 2019/10/22 Station no.= 9+202</p> <p>REMARKS No other drainage inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR025.1 Northing= 1616572.678 Easting= 508260.954 Elevation= 12.24 Dimension= H1100mm W1780mm Type= BC Date= 2019/9/29 Station no.= 9+120</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026A Northing= 1616366.694 Easting= 508255.334 Elevation= 12.57 Dimension= W1950mm H500 Type= BC Date= 2019/9/28 Station no.= 8+932</p> <p>REMARKS No ditch beyond the gate</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026D1 Northing= 1616365.222 Easting= 508253.522 Elevation= 12.136 Dimension= W1950mm Type= BC Date= 2019/11/29 Station no.= 8+932</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (11/30)

	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026D2 Northing= 1616366.107 Easting= 508254.463 Elevation= 12.115 Dimension= W1950mm Type= BC Date= 2019/11/29 Station no.= 8+932</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026B Northing= 1616368.535 Easting= 508253.528 Elevation= 12.574 Dimension= H2900mm W1950mm T1400mm Type= BC Date= 2019/9/28 Station no.= 8+934</p> <p>REMARKS No ditch beyond the gate</p>
	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026C1 Northing= 1616366.884 Easting= 508251.971 Elevation= 12.174 Dimension= W1950mm Type= BC Date= 2019/11/29 Station no.= 8+934</p>
	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026C2 Northing= 1616367.638 Easting= 508252.989 Elevation= 12.106 Dimension= W1950mm Type= BC Date= 2019/11/29 Station no.= 8+934</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR026.1 Northing= 1616378.949 Easting= 508258.539 Elevation= 16.088 Dimension= D290mm Type= PVC Date= 2019/10/23 Station no.= 8+943</p> <p>REMARKS: PVC still existing at site but no water flow was observed</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR027 Northing= 1616129.692 Easting= 508383.089 Elevation= 18.154 Dimension= D460mm Type= PVC Date= 2019/10/22 Station no.= 8+684</p> <p>REMARKS Old coordinates were off</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (12/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR028 Northing= 1616120.91 Easting= 508388.627 Elevation= 18.259 Dimension= D600mm Type= RC Date= 2019/10/20 Station no.= 8+674</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR029 Northing= 1616118.802 Easting= 508391.147 Elevation= 15.605 Dimension= D920mm Type= RC Date= 2019/10/24 Station no.= 8+671</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR029.1 Northing= 1616121.145 Easting= 508392.248 Elevation= 12.372 Dimension= D50mm Type= PVC Date= 2019/8/14 Station no.= 8+672</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR029.2 Northing= 1616119.919 Easting= 508392.59 Elevation= 13.506 Dimension= D50mm Type= PVC Date= 2019/8/14 Station no.= 8+671</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR029.3 Northing= 1616127.977 Easting= 508388.539 Elevation= 12.36 Dimension= D50mm Type= PVC Date= 2019/8/14 Station no.= 8+680</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR030 Northing= 1616112.894 Easting= 508393.589 Elevation= 17.937 Dimension= D460mm Type= RC Date= 2019/10/24 Station no.= 8+665</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (13/30)












<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR031.1 Northing= 1616107.939 Easting= 508400.392 Elevation= 19.042 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+657</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR031.2 Northing= 1616107.506 Easting= 508399.967 Elevation= 18.888 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+657</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.1 Northing= 1616099.465 Easting= 508411.644 Elevation= 13.301 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+646</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.2 Northing= 1616075.288 Easting= 508422.353 Elevation= 17.491 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+621</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.3 Northing= 1616071.237 Easting= 508426.66 Elevation= 16.27 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+615</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.4 Northing= 1616070.32 Easting= 508430.242 Elevation= 16.385 Dimension= D25.4mm Type= PVC Date= 2019/8/14 Station no.= 8+612</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (14/30)









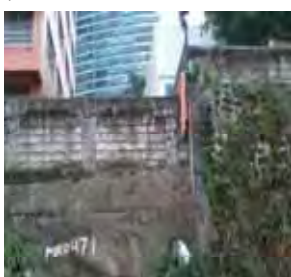



<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.5 Northing= 1616067.594 Easting= 508437.636 Elevation= 12.112 Dimension= D100mm Type= PVC Date= 2019/8/14 Station no.= 8+607</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR032.501 Northing= 1616058.14 Easting= 508435.754 Elevation= 16.927 Dimension= D1000mm T100mm Type= RC Date= 2019/8/14 Station no.= 8+603</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR043.39 Northing= 1616039.949 Easting= 508476.088 Elevation= 14.642 Dimension= D920mm T100mm Type= RC Date= 2019/10/23 Station no.= 8+563</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR047 Northing= 1616006.164 Easting= 508520.668 Elevation= 14.049 Dimension= D900mm H100mm Type= RC Date= 2019/10/24 Station no.= 8+507</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR047.1 Northing= 1616013.665 Easting= 508509.766 Elevation= 15.221 Dimension= D620mm Type= RC Date= 2019/10/24 Station no.= 8+521</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR047.2 Northing= 1616015.982 Easting= 508505.843 Elevation= 17.039 Dimension= D100mm Type= PVC Date= 2019/10/22 Station no.= 8+525</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (15/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR047.3 Northing= 1615999.104 Easting= 508527.843 Elevation= 17.321 Dimension= D100mm Type= PVC Date= 2019/9/10 Station no.= 8+597</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR048 Northing= 1615996.443 Easting= 508532.262 Elevation= 15.926 Dimension= D630mm T500mm Type= RC Date= 2019/7/27 Station no.= 8+492</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR048.1 Northing= 1615973.439 Easting= 508568.664 Elevation= 16.232 Dimension= D160mm Type= RC Date= 2019/9/29 Station no.= 8+449</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR048.2 Northing= 1615972.899 Easting= 508567.108 Elevation= 14.588 Dimension= D150mm Type= RC Date= 2019/9/29 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR048.3 Northing= 1615974.69 Easting= 508568.851 Elevation= 14.788 Dimension= D80mm Type= PVC Date= 2019/9/29 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR049 Northing= 1615975.179 Easting= 508570.83 Elevation= 16.25 Dimension= D160mm Type= RC Date= 2019/8/14 Station no.= 8+449</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (16/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR050 Northing= 1615977.129 Easting= 508572.661 Elevation= 16.281 Dimension= D160mm Type= RC Date= 2019/8/14 Station no.= 8+448</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR051 Northing= 1615975.337 Easting= 508569.301 Elevation= 13.408 Dimension= D160mm Type= RC Date= 2019/8/14 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR051.1 Northing= 1615976.199 Easting= 508570.457 Elevation= 14.707 Dimension= D160mm Type= RC Date= 2019/8/14 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR052 Northing= 1615976.752 Easting= 508570.52 Elevation= 13.481 Dimension= D150mm Type= RC Date= 2019/10/21 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR052.1 Northing= 1615977.92 Easting= 508571.712 Elevation= 13.592 Dimension= D150mm Type= RC Date= 2019/10/21 Station no.= 8+450</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR052.2 Northing= 1615977.42 Easting= 508571.568 Elevation= 14.741 Dimension= D160mm Type= RC Date= 2019/10/21 Station no.= 8+450</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (17/30)








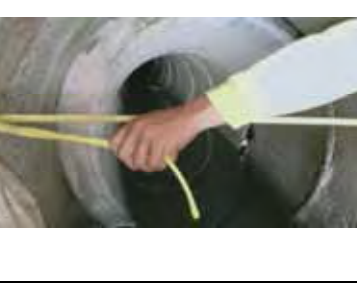

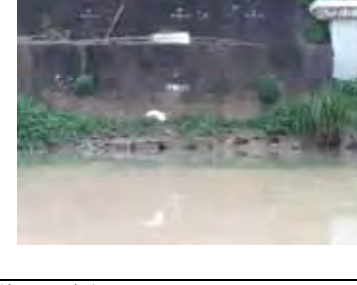
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR052.3 Northing= 1615978.246 Easting= 508572.366 Elevation= 14.777 Dimension= D160mm Type= RC Date= 2019/10/21 Station no.= 8+450</p> <p>REMARKS Old coordinates were off</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR053 Northing= 1615976.368 Easting= 508577.192 Elevation= 17.172 Dimension= D300mm Type= PVC Date= 2019/10/21 Station no.= 8+443</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR054 Northing= 1615899.742 Easting= 508665.035 Elevation= 14.632 Dimension= D250mm Type= RC Date= 2019/9/29 Station no.= 8+328</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR055 Northing= 1615888.414 Easting= 508677.214 Elevation= 15.415 Dimension= D1470mm Type= RC Date= 2019/10/22 Station no.= 8+312</p> <p>REMARKS RC is inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR055.1 Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p> <p>Remarks: Underwater during survey</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR055.2 Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p> <p>Remarks: Underwater during survey</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (18/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR056 Northing= 1615842.060 Easting= 508726.246 Elevation= 15.588 Dimension= D290mm T60mm Type= RC Date= 2019/10/22 Station no.= 8+245</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR057 Northing= 1615814.367 Easting= 508762.402 Elevation= 14.959 Dimension= D620mm T90mm Type= RC Date= 2019/10/22 Station no.= 8+199</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR058 Northing= 1615812.460 Easting= 508764.673 Elevation= 15.057 Dimension= D500mm T100mm Type= RC Date= 2019/10/22 Station no.= 8+196</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR058.1 Northing= 1615776.311 Easting= 508823.229 Elevation= 12.818 Dimension= D600mm Type= RC Date= 2019/7/16 Station no.= 8+128</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR059 Northing= 1615687.880 Easting= 508925.234 Elevation= 16.107 Dimension= D250mm T40mm Type= RC Date= 2019/7/17 Station no.= 7+993</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET Drainage Outlet No.= MR059.1 Northing= 1615677.579 Easting= 508939.132 Elevation= 20.595 Dimension= D100mm Type= RC Date= 2019/7/17 Station no.= 7+976</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (19/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR059.2 Northing= 1615675.250 Easting= 508942.152 Elevation= 21.658 Dimension= D100mm Type= RC Date= 2019/7/17 Station no.= 7+972</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>NEW OUTLET</p> <p>Drainage Outlet No.= MR059.3 Northing= 1615672.418 Easting= 508945.478 Elevation= 20.321 Dimension= D100mm Type= RC Date= 2019/7/17 Station no.= 7+968</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR060 Northing= 1615667.911 Easting= 508951.375 Elevation= 17.027 Dimension= H460mm W310mm Type= BC Date= 2019/7/17 Station no.= 7+960</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR061 Northing= 1615668.114 Easting= 508951.463 Elevation= 15.487 Dimension= D300mm T50mm Type= RC Date= 2019/7/17 Station no.= 7+960</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR062 Northing= 1615653.958 Easting= 508971.436 Elevation= 16.797 Dimension= D290mm T50mm Type= RC Date= 2019/7/17 Station no.= 7+936</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR063 Northing= 1615653.642 Easting= 508971.869 Elevation= 16.468 Dimension= D250mm T40mm Type= RC Date= 2019/7/17 Station no.= 7+935</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (20/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR064 Northing= 1615640.622 Easting= 508990.535 Elevation= 15.971 Dimension= D300mm T40mm Type= RC Date= 2019/10/24 Station no.= 7+912</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR065 Northing= 1615627.91 Easting= 509008.572 Elevation= 16.265 Dimension= D300mm T40mm Type= RC Date= 2019/7/17 Station no.= 7+890</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR066A Northing= 1615617.001 Easting= 509023.634 Elevation= 16.572 Dimension= H400mm W300mm Type= BC Date= 2019/10/31 Station no.= 7+872</p> <p>REMARKS: Easting was corrected. Typo error</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR066B Northing= 1615617.107 Easting= 509023.621 Elevation= 16.258 Dimension= D200mm, T60mm Type= RC Date= 2019/12/7 Station no.= 7+872</p> <p>REMARKS: Easting was corrected. Typo error</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p>  	<p>Drainage Outlet No.= MR067A Northing= 1615601.939 Easting= 509050.841 Elevation= 11.902 Dimension= D1200mm Type= RC Date= 2019/10/24 Station no.= 7+840</p> <p>Remarks: RC inside BC BC dimensions: H1320mm W1240mm</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (21/30)

Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR067.1 Northing= 1615564.586 Easting= 509100.385 Elevation= 16.422 Dimension= D380mm Type= RC Date= 2019/10/24 Station no.= 7+779
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR068 Northing= 1615539.636 Easting= 509129.263 Elevation= 16.386 Dimension= D200mm T30mm Type= RC Date= 2019/7/17 Station no.= 7+740
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR069 Northing= 1615533.722 Easting= 509135.633 Elevation= 16.54 Dimension= D450mm T70mm Type= RC Date= 2019/7/17 Station no.= 7+732
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR071 Northing= 1615409.088 Easting= 509287.588 Elevation= 11.797 Dimension= D620mm T100mm Type= RC Date= 2019/10/24 Station no.= 7+523
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR072 Northing= 1615400.677 Easting= 509295.132 Elevation= 11.802 Dimension= D620mm T80mm Type= RC Date= 2019/10/24 Station no.= 7+509
Photo (distant view)		Photo (short range view)		NEW OUTLET Drainage Outlet No.= MR072.1 Northing= 1615303.811 Easting= 509342.958 Elevation= 11.763 Dimension= D600mm T70mm Type= RC Date= 2019/9/12 Station no.= 7+399

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (22/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR073 Northing= 1615263.368 Easting= 509358.207 Elevation= 11.367 Dimension= D620mm T40mm Type= RC Date= 2019/10/24 Station no.= 7+356</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR074 Northing= 1615113.8 Easting= 509413.332 Elevation= 15.097 Dimension= D890mm T90mm Type= RC Date= 2019/10/24 Station no.= 7+197</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR090 Northing= 1614909.277 Easting= 509543.156 Elevation= 13.755 Dimension= D1000mm T80mm Type= RC Date= 2019/10/24 Station no.= 6+952</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR113 Northing= 1614853.833 Easting= 509281.702 Elevation= 14.038 Dimension= D100mm Type= PVC Date= 2019/7/19 Station no.= 6+241</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR114 Northing= 1614867.517 Easting= 509275.363 Elevation= 13.937 Dimension= D100mm Type= PVC Date= 2019/10/25 Station no.= 6+226</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR115 Northing= 1614881.145 Easting= 509269.264 Elevation= 13.991 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+214</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (23/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR116 Northing= 1614892.826 Easting= 509264.073 Elevation= 15.128 Dimension= D1220mm Type= RC Date= 2019/10/26 Station no.= 6+202</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR117 Northing= 1614894.271 Easting= 509263.109 Elevation= 13.967 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+200</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR118 Northing= 1614907.292 Easting= 509257.197 Elevation= 14.081 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+189</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR119 Northing= 1614919.268 Easting= 509251.743 Elevation= 13.991 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+176</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR120 Northing= 1614924.053 Easting= 509246.852 Elevation= 13.81 Dimension= D1220mm Type= RC Date= 2019/10/26 Station no.= 6+170</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR120.1 Northing= 1614923.368 Easting= 509247.391 Elevation= 14.242 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+170</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (24/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR120.2 Northing= 1614924.302 Easting= 509246.216 Elevation= 13.968 Dimension= D100mm Type= PVC Date= 2019/10/26 Station no.= 6+169</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR121 Northing= 1614959.231 Easting= 509202.036 Elevation= 14.039 Dimension= D100mm Type= PVC Date= 2019/7/19 Station no.= 6+120</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR122 Northing= 1614959.636 Easting= 509201.593 Elevation= 13.741 Dimension= D925mm Type= RC Date= 2019/7/19 Station no.= 6+120</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR123 Northing= 1614960.008 Easting= 509201.103 Elevation= 14.003 Dimension= D100mm Type= PVC Date= 2019/7/19 Station no.= 6+119</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR124 Northing= 1614963.269 Easting= 509196.981 Elevation= 19.574 Dimension= D400mm Type= SP Date= 2019/7/19 Station no.= 6+114</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR124A Northing= 1614965.652 Easting= 509194.443 Elevation= 13.91 Dimension= D300mm Type= RC Date= 2019/10/26 Station no.= 6+111</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (25/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR125 Northing= 1615027.063 Easting= 509135.523 Elevation= 12.608 Dimension= D380mm Type= RC Date= 2019/7/19 Station no.= 6+035</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR126 Northing= 1615032.821 Easting= 509127.84 Elevation= 14.009 Dimension= D300mm Type= RC Date= 2019/9/2 Station no.= 6+025</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR127 Northing= 1615041.002 Easting= 509117.106 Elevation= 12.483 Dimension= D300mm Type= RC Date= 2019/10/25 Station no.= 6+012</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR128 Northing= 1615047.111 Easting= 509109.021 Elevation= 14.392 Dimension= D220mm Type= RC Date= 2019/10/25 Station no.= 6+002</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR129 Northing= 1615048.73 Easting= 509107.58 Elevation= 15.355 Dimension= D200mm Type= RC Date= 2019/10/25 Station no.= 6+000</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR130A Northing= 1615053.260 Easting= 509101.061 Elevation= 15.617 Dimension= D200mm Type= RC Date= 2019/10/25 Station no.= 5+992</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (26/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR130B Northing= 1615052.744 Easting= 509102.435 Elevation= 16.040 Dimension= D100mm Type= PVC Date= 2019/10/25 Station no.= 5+993</p> <p>REMARKS: 2 PVC inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR130C Northing= 1615052.671 Easting= 509102.514 Elevation= 15.562 Dimension= D100mm Type= PVC Date= 2019/10/25 Station no.= 5+993</p> <p>REMARKS: 2 PVC inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR131 Northing= 1615057.235 Easting= 509095.785 Elevation= 15.569 Dimension= D200mm Type= RC Date= 2019/10/26 Station no.= 5+985</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR132B Northing= 1615060.042 Easting= 509092.496 Elevation= 16.025 Dimension= D100mm Type= PVC Date= 2019/11/6 Station no.= 5+981</p> <p>REMARKS: 3 PVC inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR132C Northing= 1615060.084 Easting= 509092.455 Elevation= 15.938 Dimension= D100mm Type= PVC Date= 2019/11/6 Station no.= 5+981</p> <p>REMARKS: 3 PVC inside BC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR132D Northing= 1615060.016 Easting= 509092.534 Elevation= 15.938 Dimension= D100mm Type= PVC Date= 2019/11/6 Station no.= 5+981</p> <p>REMARKS: 3 PVC inside BC</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (27/30)












<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR133 Northing= 1615060.523 Easting= 509091.28 Elevation= 15.614 Dimension= D200mm Type= RC Date= 2019/10/26 Station no.= 5+980</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR134 Northing= 1615064.223 Easting= 509086.348 Elevation= 15.477 Dimension= D200mm Type= RC Date= 2019/10/26 Station no.= 5+974</p>
<p>Photo (distant view)</p>  	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR135A Northing= 1615066.791 Easting= 509082.476 Elevation= 15.821 Dimension= H200mm W200mm Type= RC Date= 2019/10/26 Station no.= 5+969</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR136 Northing= 1615070.092 Easting= 509075.923 Elevation= 15.193 Dimension= H400mm W400mm Type= BC Date= 2019/10/25 Station no.= 5+962</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR137 Northing= 1615073.223 Easting= 509069.915 Elevation= 15.429 Dimension= H300mm W300mm Type= BC Date= 2019/10/25 Station no.= 5+955</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (28/30)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR138 Northing= 1615073.475 Easting= 509069.157 Elevation= 15.442 Dimension= D250mm Type= RC Date= 2019/10/26 Station no.= 5+954</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR139 Northing= 1615075.656 Easting= 509065.111 Elevation= 15.702 Dimension= D200mm Type= RC Date= 2019/10/25 Station no.= 5+949</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR140 Northing= 1615078.387 Easting= 509055.61 Elevation= 16.214 Dimension= D150mm Type= RC Date= 2019/7/19 Station no.= 5+940</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR141 Northing= 1615092.647 Easting= 509025.359 Elevation= 16.048 Dimension= D150mm Type= RC Date= 2019/10/25 Station no.= 5+907</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR144 Northing= 1615116.41 Easting= 508978.329 Elevation= 15.79 Dimension= D460mm T70mm Type= RC Date= 2019/10/26 Station no.= 5+863</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR145 Northing= 1615117.599 Easting= 508976.764 Elevation= 16.363 Dimension= D260mm T50mm Type= RC Date= 2019/10/26 Station no.= 5+861</p>

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (29/30)













Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR146 Northing= 1615118.197 Easting= 508974.369 Elevation= 16.264 Dimension= D250mm T50mm Type= RC Date= 2019/10/26 Station no.= 5+858
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR147A Northing= 1615119.112 Easting= 508966.411 Elevation= 15.422 Dimension= D120mm Type= PVC Date= 2019/10/26 Station no.= 5+852
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR148 Northing= 1615121.231 Easting= 508960.106 Elevation= 16.602 Dimension= D100mm Type= PVC Date= 1026/2019 Station no.= 5+847
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR151 Northing= 1615121.347 Easting= 508887.93 Elevation= 15.429 Dimension= 620mm Type= RC Date= 2019/10/25 Station no.= 5+788
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR151A Northing= 1614991.513 Easting= 508689.65 Elevation= 15.7 Dimension= D590mm T70mm Type= RC Date= 2019/10/25 Station no.= 5+592
Photo (distant view)		Photo (short range view)		Drainage Outlet No.= MR151B Northing= 1614932.103 Easting= 508692.399 Elevation= 15.732 Dimension= D900mm T80mm Type= RC Date= 2019/10/25 Station no.= 5+548

Table 6.2.1 The Result of Drainage Survey (RIGHT BANK) (30/30)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= MR151C Northing= 1614891.907 Easting= 508698.134 Elevation= 11.326 Dimension= D600mm T80mm Type= RC Date= 2019/10/25 Station no.= 5+513</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= TR001 Northing= 1615824.933 Easting= 508748.867 Elevation= 15.226 Dimension= D400mm T50mm Type= RC Date= 2019/9/27 Station no.= 8+216</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (1/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML001 Northing= 1618684.931 Easting= 509912.44 Elevation= 12.463 Dimension= D450mm T50mm Type= RC Date= 2019/9/6 Station no.= 13+340</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML002 Northing= 1618666.309 Easting= 509949.276 Elevation= 13.413 Dimension= H2300mm W3100mm Type= BC Date= 2019/10/16 Station no.= 13+315</p> <p>Drainage Outlet No.= ML002.1 Northing= 1618663.583 Easting= 509950.105 Elevation= 13.399 Dimension= H2300mm W3100mm Type= BC Date= 2019/10/16 Station no.= 13+312</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML003 Northing= 1618626.036 Easting= 509923.704 Elevation= 12.507 Dimension= D180mm T10mm Type= PVC Date= 2019/10/16 Station no.= 13+280</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML004 Northing= 1618608.07 Easting= 509926.963 Elevation= 12.163 Dimension= D900mm T100mm Type= RC Date= 2019/10/8 Station no.= 13+261</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML005 Northing= 1618553.36 Easting= 509935.943 Elevation= 11.788 Dimension= H1000mm W720mm T200mm Type= BC Date= 2019/9/28 Station no.= 13+206</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML006 Northing= 1618532.699 Easting= 509938.925 Elevation= 11.829 Dimension= H180mm W250mm Type= BC Date= 2019/10/8 Station no.= 13+185</p>	

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (2/19)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML007A Northing= 1618535.034 Easting= 509943.517 Elevation= 13.830 Dimension= D50mm T5mm Type= PVC Date= 2019/8/25 Station no.= 13+187</p>	<p>Remarks: Old outlet (ML007) has been cut down and the remaining portion has been surveyed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML008 Northing= 1618507.370 Easting= 509946.135 Elevation= 13.473 Dimension= D150mm T10mm Type= SP Date= 2019/10/8 Station no.= 13+159</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML009 Northing= 1618499.037 Easting= 509944.855 Elevation= 11.599 Dimension= H1550mm W1500mm T150mm Type= BC Date= 2019/10/16 Station no.= 13+151</p>	<p>Remarks: The drainage was still underwater during the observation today so the dimensions were not confirmed. Photos of the dimension will be added as proof.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML009.1 Northing= 1618493.160 Easting= 509945.886 Elevation= 12.011 Dimension= D250mm T50mm Type= RC Date= 2019/9/25 Station no.= 13+145</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML011.1 Northing= 1618422.518 Easting= 509970.920 Elevation= 13.525 Dimension= D450mm T50mm Type= RC Date= 2019/9/6 Station no.= 13+073</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML012 Northing= 1618387.516 Easting= 509976.771 Elevation= 13.155 Dimension= D600mm T80mm Type= RC Date= 2019/6/17 Station no.= 13+037</p>	

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (3/19)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML012.1 1618338.351 509970.233 10.862 D700mm T70mm RC 2019/6/17 12+989</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML012.2 1618291.53 509974.618 12.973 D400mm T50mm RC 2019/6/17 12+942</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML012.201 1618227.750 509981.290 13.138 D490mm T60mm RC 2019/6/17 12+878</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML012.3 1618173.373 509991.87 14.461 D200mm T40mm RC 2019/6/17 12+823</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML013 1618114.509 509998.443 12.435 D900mm T50mm RC 2019/10/16 12+764</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML015 1618019.477 510012.264 13.177 D600mm T80mm RC 2019/10/16 12+668</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (4/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML016 1617923.490 510021.853 11.576 H630mm W750mm T200mm BC 2019/9/25 12+572</p> <p>Remarks: There is an RC inside this drainage which is about 2 meters from the opening making it hard for measuring the dimension of the RC</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML017 1617891.291 510025.929 11.955 D920mm T10mm RC 2019/6/3 12+542</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML017.1 1617887.885 510025.850 12.564 H2430mm W1950mm T1230mm BC 2019/6/3 12+539</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML017.2 1617733.464 510011.600 12.325 H450mm W550mm RC inside BC 2019/9/25 12+388</p> <p>Remarks: RC inside cannot be measured because area is covered in soil.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML018 1617710.141 510010.440 12.209 D800mm T80mm RC 2019/10/9 12+365</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML019 1617588.389 510007.673 14.898 D1200mm T130mm RC 2019/10/9 12+251</p> <p>Remarks Outlets ML19 and ML19.1 are not of the same/equal elevation as shown in the picture</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (5/19)










<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML019.1 Northing= 1617586.600 Easting= 510007.867 Elevation= 14.997 Dimension= D1200mm T130mm Type= RC Date= 2019/10/9 Station no.= 12+249</p>	<p>Remarks: Outlets ML19 and ML19.1 are not of the same/equal elevation as shown in the picture</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML020 Northing= 1617493.886 Easting= 509940.938 Elevation= 13.340 Dimension= D900mm T100mm Type= RC Date= 2019/10/9 Station no.= 12+146</p>	<p>REMARKS: elevation is not equal to ML21 elev</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML021 Northing= 1617492.854 Easting= 509940.481 Elevation= 13.247 Dimension= D900mm T100mm Type= RC Date= 2019/10/9 Station no.= 12+145</p>	<p>REMARKS: elevation is not equal to ML21 elev</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML021.1 Northing= 1617407.683 Easting= 509878.537 Elevation= 12.268 Dimension= H1760mm W1800mm T200mm Type= BC Date= 2019/9/20 Station no.= 12+052</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML022A Northing= 1617378.031 Easting= 509841.442 Elevation= 12.033 Dimension= D1100mm T100mm Type= RC Date= 2019/10/9 Station no.= 12+011</p>	<p>Remarks: Old outlet (ML022) was extended for about 80 cm towards the river. The extended portion was the one surveyed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML023 Northing= 1617345.336 Easting= 509839.770 Elevation= 19.934 Dimension= D120mm Type= PVC Date= 2019/6/13 Station no.= 11+996</p>	<p>Remarks: PVC is damaged.</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (6/19)









<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML024 Northing= 1617345.336 Easting= 509829.385 Elevation= 19.979 Dimension= D120mm Type= PVC Date= 2019/6/13 Station no.= 11+990</p>	<p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML025 Northing= 1617345.334 Easting= 509826.147 Elevation= 20.189 Dimension= D80mm Type= PVC Date= 2019/6/13 Station no.= 11+989</p>	<p>Remarks: PVC is damaged. Photos of the dimension will be added as proof.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML026 Northing= 1617345.327 Easting= 509819.814 Elevation= 19.932 Dimension= D120mm Type= PVC Date= 2019/6/13 Station no.= 11+983</p>	<p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML027 Northing= 1617345.359 Easting= 509809.984 Elevation= 19.754 Dimension= D180mm Type= PVC Date= 2019/10/9 Station no.= 11+974</p>	<p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML028 Northing= 1617345.232 Easting= 509799.915 Elevation= 19.628 Dimension= D200mm Type= PVC Date= 2019/10/9 Station no.= 11+968</p>	<p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML029A Northing= 1617345.580 Easting= 509789.628 Elevation= 19.275 Dimension= D50mm Type= PVC Date= 2019/10/9 Station no.= 11+959</p>	<p>Remarks: Old outlet ML029 was damaged because of the new constructed stairs. It was relocated to a new drainage located in the wall. The drainage type is hard to be determined since there is no outlet but it is PVC from before and water flows from the outlet.</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (7/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML030A Northing= 1617349.876 Easting= 509784.858 Elevation= 15.437 Dimension= D600mm T80mm Type= RC Date= 2019/10/9 Station no.= 11+956</p>	<p>Remarks: Old outlet ML030 was extended for about 50 cm. The extended drainage was constructed and relocated adjacent to the stairs.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML031 Northing= 1617344.936 Easting= 509771.587 Elevation= 20.092 Dimension= D100mm Type= PVC Date= 2019/6/13 Station no.= 11+945</p>	<p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML032 Northing= 1617344.996 Easting= 509768.385 Elevation= 19.844 Dimension= D90mm Type= SP Date= 2019/10/15 Station no.= 11+942</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML034 Northing= 1617345.032 Easting= 509758.831 Elevation= 19.824 Dimension= D250mm Type= PVC Date= 2019/6/13 Station no.= 11+933</p>	
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML034.1A Northing= 1617344.462 Easting= 509748.596 Elevation= 19.732 Dimension= D250mm Type= PVC Date= 2019/10/15 Station no.= 11+924</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML035 Northing= 1617344.070 Easting= 509731.945 Elevation= 20.469 Dimension= D180mm Type= PVC Date= 2019/6/13 Station no.= 11+910</p>	

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (8/19)








<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML036 1617343.892 509727.978 20.283 D150mm T50mm RC 2019/10/15 11+906</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML037 1617343.779 509724.343 20.354 D50mm PVC 2019/10/9 11+903</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML038A 1617343.797 509708.596 19.258 D120mm UD 2019/10/15 11+890</p> <p>Remarks: Old outlet ML038 was destroyed because of the constructed stairs. It was then diverted to a new drainage adjacent to the stairs.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML039 1617343.252 509693.412 19.714 D140mm PVC 2019/6/13 11+878</p> <p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML040 1617343.115 509682.555 19.894 D200mm PVC 2019/10/10 11+867</p> <p>Remarks: PVC is damaged.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML041 1617343.212 509679.002 20.399 D160mm PVC 2019/10/15 11+864</p> <p>Remarks: PVC is damaged.</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (9/19)











Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	ML042 1617343.410 509668.165 19.825 D100mm PVC 2019/6/13 11+856 PVC is damaged.
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	ML043 1617345.389 509654.465 20.142 D130mm PVC 2019/10/15 11+843 PVC is damaged.
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	ML044 1617349.516 509640.776 19.649 D130mm PVC 2019/6/13 11+832 PVC is damaged.
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	ML045 1617350.029 509638.466 20.344 D80mm PVC 2019/10/10 11+829 PVC is damaged.
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	ML046 1617358.714 509633.207 14.925 D800mm T100mm RC 2019/10/10 11+822 Dimension cannot be measured properly because drainage is submerged. The dimension above are estimated measurements.
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:	NEW OUTLET ML046.1 1617352.196 509631.931 20.042 D150mm PVC 2019/9/20 11+823

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (10/19)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML047 1617355.429 509621.41 19.648 D100mm PVC 2019/10/10 11+815</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML047.1 1617357.181 509615.642 20.063 D180mm PVC 2019/9/20 11+809</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML048 1617359.478 509607.941 20.282 D180mm T30mm RC 2019/10/10 11+801</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML049 1617362.341 509600.110 20.479 D95mm T5mm SP 2019/10/10 11+793</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML050 1617363.029 509598.29 20.301 D90mm T10mm PVC 2019/10/10 11+793</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p> <p>Remarks:</p>	<p>NEW OUTLET ML050.1 1617366.285 509590.907 20.243 D150mm PVC 2019/9/20 11+786</p> <p>PVC is damaged.</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (11/19)












<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:</p>	<p>NEW OUTLET ML050.2 1617389.187 509597.199 12.726 D800mm T100mm RC 2019/9/20 11+782 The drainage is submerged into the land area so it is hard to measure the dimension. The dimension will be estimated from what is visible. 80 cm for the diameter and 10 cm for the thickness on both sides.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML052 1617373.851 509576.291 20.160 D100mm PVC 2019/10/10 11+771</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.= Remarks:</p>	<p>ML053 1617378.577 509568.070 20.384 D90mm T10mm SP 2019/10/10 11+763</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML054 1617378.872 509567.672 19.638 D100mm PVC 2019/9/20 11+763</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML055 1617383.212 509560.159 20.801 D100mm PVC 2019/6/13 11+754</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML056 1617392.829 509546.334 20.435 D120mm T20mm SP 2019/6/13 11+741</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (12/19)

Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML058.1 1617469.351 509470.525 14.326 D300mm RC 2019/9/23 11+638
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML058.2 1617473.206 509468.437 13.594 D500mm T50mm RC 2019/9/25 11+634
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML058.3 1617474.402 509467.060 13.667 D500mm T50mm RC 2019/6/13 11+632
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML061.1 1617992.616 508883.679 19.005 D910mm T100mm RC 2019/10/28 10+742
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML061.2 1617899.959 508843.071 18.338 D900mm T100mm RC 2019/10/28 10+607
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML061.3 1617805.869 508807.453 17.111 D910mm T100mm RC 2019/10/28 10+506

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (13/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML061.4 1617708.694 508779.481 15.851 D910mm T100mm RC 2019/10/28 10+405</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML062A 1617669.324 508757.802 11.867 D1200mm T100mm RC 2019/9/25 10+361</p> <p>Remarks: Old outlet ML062 was a box culvert before and the drainage improvement resulted to three drainage outlets (ML062A, ML062.1B, ML062.2C) which were surveyed here.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML062.1B 1617667.655 508756.604 11.929 D1200mm T100mm RC 2019/9/25 10+359</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML062.2C 1617666.075 508755.634 11.895 D1200mm T100mm RC 2019/9/25 10+358</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML062.3D 1617650.387 508763.454 13.976 D1200mm T100mm RC 2019/10/28 10+345</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML064 1617601.725 508749.523 13.412 H1640mm W2750mm T300mm (Top) BC 2019/10/17 10+292</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (14/19)

<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML064.1 1617578.060 508735.239 12.155 D600mm T60mm RC 2019/10/18 10+266</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML064.2 1617488.767 508714.558 11.896 H900mm T100mm RC 2019/6/13 10+169</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML065A 1617384.417 508712.362 13.078 H1060mm T100mm RC 2019/10/10 10+064</p> <p>Remarks: Old outlet (ML065) has been cut down and the remaining portion has been surveyed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML066A 1617216.607 508705.508 11.717 H3150mm W3080mm T300mm BC 2019/10/10 9+896</p> <p>Remarks: Old outlet (ML066) was a creek and a box culvert was constructed here.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML066.101 1617219.513 508705.870 13.723 H760mm W680mm T: Top=200mm, Side=150mm BC 2019/9/23 9+899</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML066.4 1617106.652 508685.475 13.484 D1000mm T100mm RC 2019/8/13 9+785</p> <p>Remarks: Distance from BC to RC: 7 m (estimated) because of strong current in drainage RC inside BC</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (15/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML068 1616859.441 508558.426 12.685 H460mm W1000mm BC 2019/10/17 9+521</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML068.1 1616603.216 508367.068 11.660 D900mm T100mm RC 2019/10/12 9+177</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML069 1616445.355 508349.732 13.127 H1440mm W1310mm T200mm BC 2019/10/12 9+002</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML070A 1616313.703 508386.943 12.085 D600mm T80mm RC 2019/10/12 8+848</p> <p>Remarks Old outlet (ML070) was destroyed and was part of a road construction located along the centerline. A new drainage was relocated and constructed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML071A 1616263.343 508400.069 12.397 D600mm T80mm RC 2019/10/12 8+791</p> <p>Remarks Old outlet (ML071) was destroyed and was part of a road construction located along the centerline. A new drainage was relocated and constructed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML072A 1616137.448 508500.447 14.443 D900mm T100mm RC 2019/10/14 8+611</p> <p>Remarks Old outlet (ML072) was destroyed and was part of a road construction located along the centerline. A new drainage was relocated and constructed.</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (16/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML073A 1616032.907 508616.549 12.443 D900mm T100mm RC 2019/10/14 8+446</p> <p>Remarks</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML073.1 1615977.314 508705.867 13.066 D900mm T100mm RC 2019/9/24 8+341</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML073.2 1615918.695 508781.463 12.804 D900mm T100mm RC 2019/9/24 8+245</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML073.3 1615854.395 508869.071 13.122 H1810mm W1430mm BC 2019/9/24 8+137</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML087.1 1615680.116 509088.366 11.952 H300mm W300mm ED 2019/9/25 7+857</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML087.101 1615698.533 509075.290 13.699 H370mm W310mm T120 mm BC 2019/9/25 7+878</p> <p>Remarks:</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (17/19)












<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML087.2 1615660.764 509110.377 10.808 H400mm W400mm BC 2019/7/17 7+827</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML088 1615666.214 509114.565 12.315 D250mm T50mm RC 2019/9/25 7+827</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML091A 1615651.410 509131.366 12.789 D100mm PVC 2019/10/14 7+805</p> <p>Remarks: Old outlet (ML091) has been cut down and the remaining portion has been surveyed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>NEW OUTLET ML091.1 1615648.586 509135.256 11.051 D1100m T100mm RC 2019/9/25 7+800</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML092 1615647.895 509137.023 13.436 D100mm PVC 2019/7/17 7+798</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=</p>	<p>ML096 1615561.007 509267.353 17.627 D100mm T10mm PVC 2019/10/14 7+652</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (18/19)













<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML097A Northing= 1615168.637 Easting= 509480.304 Elevation= 12.511 Dimension= D770mm, T120mm Type= RC Date= 2019/10/16 Station no.= 7+216</p>	<p>Remarks: Old outlet (ML097) has been cut down and the remaining portion has been surveyed.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML097.3 Northing= 1615564.777 Easting= 509252.930 Elevation= 15.009 Dimension= D1180mm Type= RC Date= 2019/10/14 Station no.= 7+658</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML097.4 Northing= 1615335.585 Easting= 509390.223 Elevation= 13.665 Dimension= D1200mm T50mm Type= RC Date= 2019/8/15 Station no.= 7+406</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML098 Northing= 1615139.331 Easting= 509507.087 Elevation= 13.508 Dimension= D1520mm T160mm Type= RC Date= 2019/8/30 Station no.= 7+178</p>	<p>NEW OUTLET</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML098.1 Northing= 1615036.696 Easting= 509562.793 Elevation= 14.073 Dimension= D80mm T4mm Type= PVC Date= 2019/7/19 Station no.= 7+061</p>	<p>Remarks: During site visit, no RC was found behind or nearby this PVC.</p>
<p>Photo (distant view)</p> 	<p>Photo (short range view)</p> 	<p>Drainage Outlet No.= ML099 Northing= 1614709.381 Easting= 509646.645 Elevation= 11.995 Dimension= D1840mm T170mm Type= RC Date= 2019/10/12 Station no.= 6+758</p>	<p>NEW OUTLET</p>

Table 6.2.2 The Result of Drainage Survey (LEFT BANK) (19/19)

Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	NEW OUTLET ML099.1 1614632.313 509646.342 11.489 D100mm T5mm PVC 2019/7/19 6+711
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date=	NEW OUTLET ML099.2 1614630.934 509646.849 11.529 D100mm T5mm PVC 2019/7/19
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	ML100 1614583.790 509415.024 17.056 D620mm T100mm RC 2019/7/18 6+541
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	ML101 1614586.686 509381.123 17.690 D300mm T50mm RC 2019/7/18 6+513
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	ML102 1614593.602 509376.649 14.081 D910mm T60mm RC 2019/7/18 6+509
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	ML103 1614590.245 509364.147 18.231 D300mm T50mm RC 2019/7/18 6+500
Photo (distant view) 	Photo (short range view) 	Drainage Outlet No.= Northing= Easting= Elevation= Dimension= Type= Date= Station no.=	ML104 1614601.269 509333.043 16.699 D1065mm RC 2019/7/18 6+474

Table 6.2.3 Hydraulic Calculation for Probable Discharge for MARIKINA River Area (4/4)

OUTFALL DESIGNATION	STATION	Design Peak Discharge															DISCHARGE Q ₂₅ m ³ /s
		Time of Concentration					Drain Flow Time					T _c		R ₂₅ 25Year Rainfall Int. mm/hr	Runoff Coeff. C		
		Overland Flow			Curb and Gutter Flow		To + T _g			n		S				T _d mins	
		L m	S %	To mins	L m	S %	T _g mins	To + T _g mins	n	L m	R m	S m/m	T _d mins	R ₂₅ mm/hr			
MR030	8+665	0.041	0.015	8.392	0.350	4.024	12.163	0.500	0.430	4.854	0.013	0.002	0.411	4.864	350.143	0.950	0.038
MR029	8+671	2.721	0.015	51.095	0.350	7.347	42.458	0.500	1.501	8.848	0.013	0.001	5.221	14.069	227.614	0.950	1.635
MR028	8+674	0.185	0.015	9.865	0.350	4.246	20.525	0.500	0.726	4.972	0.013	0.001	0.641	5.613	331.385	0.950	0.162
MR027	8+684	1.207	0.015	27.652	0.350	5.987	25.085	0.500	0.887	6.874	0.013	0.002	4.827	11.701	246.114	0.950	0.784
MR025.1	9+120	4.095	0.015	21.183	0.350	5.478	55.817	0.500	1.973	7.452	0.013	0.000	2.885	10.336	259.211	0.500	1.474
MR025	9+202	40.543	0.015	191.285	0.350	11.408	189.571	0.500	6.702	18.111	0.013	0.001	17.382	35.493	151.089	0.732	12.454
MR024	9+291	10.221	0.015	28.264	0.350	6.031	43.084	0.500	1.523	7.554	0.013	0.000	8.913	16.468	212.703	0.710	4.290
MR023	9+453	0.544	0.015	14.104	0.350	4.784	15.166	0.500	0.536	5.320	0.013	0.001	0.294	5.614	331.362	0.900	0.450
MR021.3	9+569	0.548	0.015	12.826	0.350	4.635	21.367	0.500	0.755	5.390	0.013	0.001	3.631	9.021	274.195	0.300	0.125
MR021.301	9+570	1.485	0.015	10.190	0.350	4.293	15.828	0.500	0.560	4.852	0.013	0.001	1.236	6.088	321.037	0.718	0.951
MR021.302	9+571	0.911	0.015	24.554	0.350	5.755	54.235	0.500	1.917	7.672	0.013	0.001	1.865	9.537	267.991	0.481	0.326
MR021.2	9+638	1.518	0.015	63.165	0.350	7.885	12.892	0.500	0.456	8.341	0.013	0.001	5.957	14.298	226.045	0.704	0.671
MR021.1	9+774	2.898	0.015	41.869	0.350	6.875	14.728	0.500	0.521	7.396	0.013	0.001	6.015	13.411	232.315	0.593	1.031
MR021	9+840	1.612	0.015	35.006	0.350	6.477	23.869	0.500	0.844	7.321	0.013	0.001	4.361	11.682	246.284	0.671	0.740
MR020	9+886	1.539	0.015	26.302	0.350	5.888	34.211	0.500	1.210	7.098	0.013	0.001	3.471	10.569	256.828	0.681	0.747
MR019	9+903	0.606	0.015	12.917	0.350	4.646	17.409	0.500	0.616	5.261	0.013	0.001	0.150	5.952	323.901	0.750	0.409
MR018	10+221	38.969	0.015	161.389	0.350	10.780	152.028	0.500	5.375	16.155	0.013	0.000	18.077	34.232	153.602	0.728	12.099
MR017	10+292	16.123	0.015	40.280	0.350	6.787	48.283	0.500	1.707	8.494	0.013	0.000	16.969	25.463	175.559	0.636	4.998
MR015.2	10+375	11.730	0.015	81.040	0.350	5.748	68.850	0.500	2.434	11.003	0.013	0.001	23.776	34.779	152.497	0.723	3.593
MR015.1	10+414	1.908	0.015	18.010	0.350	5.190	47.540	0.500	1.681	6.871	0.013	0.001	4.110	10.981	252.759	0.660	0.884
MR015.101	10+536	5.636	0.015	42.672	0.350	6.919	83.379	0.500	2.948	9.867	0.013	0.001	9.410	19.277	198.593	0.748	2.326
MR015A	10+589	0.212	0.015	24.463	0.350	5.748	15.173	0.500	0.536	6.284	0.013	0.001	0.301	6.585	311.272	0.530	0.097
MR014	10+610	0.742	0.015	21.376	0.350	5.495	23.899	0.500	0.845	6.340	0.013	0.002	1.856	8.196	285.130	0.950	0.558
MR010	10+726	9.146	0.015	107.484	0.350	9.414	77.423	0.500	2.737	12.151	0.013	0.003	7.731	19.882	195.914	0.950	4.728
MR009.1	10+804	6.348	0.015	73.089	0.350	8.278	43.687	0.500	1.545	9.823	0.013	0.000	4.880	14.703	223.361	0.945	3.720
MR009A	10+935	0.660	0.015	28.726	0.350	6.064	26.658	0.500	0.943	7.006	0.013	0.001	1.845	8.852	276.329	0.300	0.152
MR007 & MR008	10+984	11.987	0.015	91.917	0.350	8.936	72.125	0.500	2.550	11.486	0.013	0.001	12.288	23.774	181.019	0.760	4.579
MR004.3	13+010	0.607	0.015	13.791	0.350	4.748	10.415	0.500	0.368	5.116	0.013	0.002	0.816	5.932	324.316	0.300	0.164
MR004.1	13+033	0.014	0.015	5.352	0.350	3.463	5.144	0.500	0.182	3.645	0.013	0.037	0.611	4.256	368.250	0.750	0.011
MR004A	13+046	3.261	0.015	94.561	0.350	9.021	71.359	0.500	2.523	11.543	0.013	0.001	7.118	18.661	201.436	0.742	1.353
MR003.105	13+075	0.023	0.015	4.099	0.350	3.169	5.766	0.500	0.204	3.373	0.013	0.037	0.438	3.811	383.694	0.300	0.007
MR003.10	13+128	0.383	0.015	5.384	0.350	3.470	8.243	0.500	0.291	3.762	0.013	0.003	1.210	4.971	347.242	0.695	0.257
MR003.5	13+158	0.037	0.015	7.179	0.350	3.820	7.460	0.500	0.264	4.083	0.013	0.037	0.264	4.348	365.334	0.750	0.028
MR003.1	13+215	0.186	0.015	7.179	0.350	3.820	7.460	0.500	0.264	4.083	0.013	0.001	0.264	4.348	365.334	0.750	0.142
MR003	13+236	0.134	0.015	6.630	0.350	3.720	9.010	0.500	0.319	4.038	0.013	0.002	0.575	4.613	357.257	0.750	0.100
MR002A	13+283	0.099	0.015	5.818	0.350	3.561	10.122	0.500	0.358	3.919	0.013	0.002	0.476	4.395	363.865	0.750	0.075
MR001A	13+284	0.653	0.015	5.818	0.350	3.561	10.122	0.500	0.358	3.919	0.013	0.002	0.476	4.395	363.865	0.750	0.495

Table 14.1 Number of Affected Structures and Its Values for Probable Flood (W/o Phase IV and Marikina Dam)

Return Period	2-year		5-year		10-year		20-year		30-year		50-year		100-year	
	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)
Residential Unit	29,456	939	60,112	1,916	127,499	4,063	202,043	6,438	258,795	8,247	318,151	10,139	384,442	12,251
Fishing	2	6	3	12	11	38	18	61	22	76	26	91	30	102
Manufacturing	261	1,205	539	2,469	1,130	5,210	1,774	8,236	2,262	10,611	2,745	13,770	3,265	19,096
Electricity, Gas and Water	1	214	4	854	11	2,544	22	5,068	31	7,209	39	8,944	46	10,677
Construction	17	89	37	199	66	349	101	539	132	698	161	837	196	988
Wholesale/Retail Trade and Repair Services	1,593	2,439	3,084	4,722	6,907	10,575	10,943	16,745	13,897	21,248	16,839	25,616	19,646	29,547
Hotels and Restaurants	366	157	759	325	1,729	739	2,750	1,175	3,496	1,493	4,229	1,798	4,917	2,072
Transport, Storage and Communications	79	462	146	850	391	2,282	628	3,662	788	4,593	954	5,546	1,087	6,294
Financial Intermediation	125	384	254	783	606	1,870	971	2,994	1,233	3,795	1,492	4,564	1,728	5,217
Real Estate, Renting & Business Activities	351	1,103	741	2,331	1,747	5,495	2,820	8,869	3,609	11,347	4,360	13,661	5,039	15,678
Education	63	72	130	149	286	329	463	532	598	685	731	831	867	972
Health and Social Work	154	134	305	265	662	575	1,065	925	1,367	1,186	1,661	1,435	1,950	1,671
Other Service Activities	194	183	390	369	866	818	1,362	1,287	1,723	1,628	2,086	1,968	2,436	2,292
Total	32,662	7,386	66,504	15,243	141,910	34,887	224,960	56,530	287,953	72,816	353,474	89,200	425,649	106,858

Source: Study Team

Table 14.2 Number of Affected Structures and Its Values for Probable Flood (W/ Phase IV)

Return Period	2-year		5-year		10-year		20-year		30-year		50-year		100-year	
	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)
Residential Unit	23,563	751	43,500	1,386	55,343	1,764	65,903	2,100	75,845	2,417	108,744	3,465	163,948	5,225
Fishing	2	5	2	8	3	9	3	9	3	9	6	22	10	35
Manufacturing	210	977	381	1,761	480	2,311	562	2,788	639	3,231	905	4,560	1,355	7,352
Electricity, Gas and Water	1	120	1	220	1	315	2	395	2	550	4	924	11	2,476
Construction	13	68	25	131	33	175	40	211	46	244	54	288	81	423
Wholesale/Retail Trade and Repair Services	1,340	2,051	2,264	3,466	2,784	4,250	3,209	4,890	3,562	5,420	5,354	8,151	8,015	12,126
Hotels and Restaurants	306	131	525	224	663	283	775	330	860	366	1,267	539	1,928	816
Transport, Storage and Communications	71	411	111	646	131	763	146	850	155	900	277	1,611	420	2,439
Financial Intermediation	106	326	175	540	213	654	245	750	272	831	427	1,306	659	2,000
Real Estate, Renting & Business Activities	296	930	492	1,547	618	1,941	714	2,240	785	2,460	1,180	3,698	1,851	5,780
Education	51	59	90	103	111	127	131	149	151	171	221	252	343	387
Health and Social Work	128	111	221	192	276	239	331	286	378	326	542	469	812	698
Other Service Activities	162	153	278	262	345	325	400	378	446	421	657	620	985	928
Total	26,248	6,094	48,065	10,488	61,001	13,157	72,460	15,376	83,144	17,347	119,639	25,905	180,416	40,682

Source: Study Team

Table 14.3 Number of Affected Structures and Its Values for Probable Flood (W/ Phase IV and Marikina Dam)

Return Period	2-year		5-year		10-year		20-year		30-year		50-year		100-year	
	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)	No. of Affected Structures	Value of Structures (Mil. P)
Residential Unit	22,255	709	36,976	1,178	46,304	1,476	56,742	1,808	60,191	1,918	66,292	2,113	75,450	2,404
Fishing	2	5	2	8	2	9	3	9	3	9	3	10	3	12
Manufacturing	200	915	326	1,494	408	1,869	497	2,301	526	2,438	575	2,675	645	3,136
Electricity, Gas and Water	1	119	1	209	1	287	1	347	2	367	2	409	2	485
Construction	12	64	21	109	27	146	35	186	37	198	40	215	44	234
Wholesale/Retail Trade and Repair Services	1,298	1,989	2,037	3,120	2,467	3,778	2,924	4,476	3,063	4,687	3,350	5,126	3,758	5,735
Hotels and Restaurants	298	127	477	204	591	252	706	302	741	316	811	346	906	386
Transport, Storage and Communications	70	408	106	621	123	719	139	813	144	838	158	923	180	1,050
Financial Intermediation	103	318	159	491	190	587	223	687	233	718	256	787	288	885
Real Estate, Renting & Business Activities	290	913	457	1,437	561	1,766	665	2,091	693	2,180	757	2,379	843	2,645
Education	49	56	78	89	95	109	114	131	121	139	133	152	151	172
Health and Social Work	123	107	196	171	241	209	289	251	306	265	336	292	379	329
Other Service Activities	157	148	248	234	303	287	362	342	380	359	416	393	465	439
Total	24,857	5,878	41,085	9,367	51,313	11,494	62,701	13,743	66,438	14,433	73,129	15,821	83,116	17,912

Source: Study Team