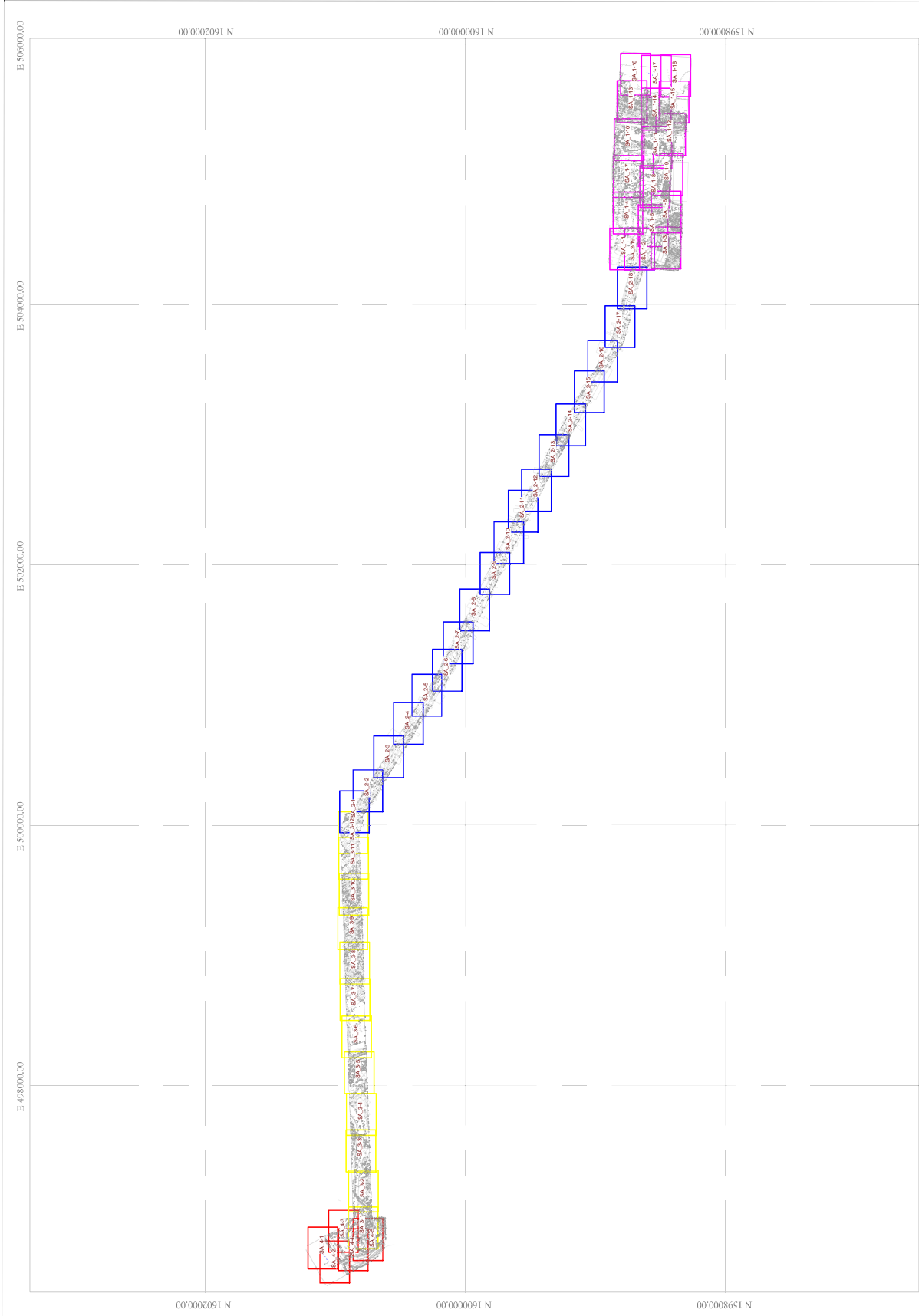


7.10. LIST OF FIGURES



INDEX MAP

INDEX MAP

LEGEND

- SURVEY AREA 1
- SURVEY AREA 3
- SURVEY AREA 4
- SURVEY AREA 2

MAP PROJECTION
PHILIPPINE TRANSVERSE MERCATOR ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

0 250 500 1:50,000 Meters

SURVEY DATE
AUGUST 2020

CLIENT		SURVEYOR		CERTIFICATION	INDEX MAP																																
<p><i>I hereby certify that this is correct plan of the survey made in accordance with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.</i></p>		<p>PROJECT MANAGER: _____</p> <p>DESIGNER: _____</p>		<p>LIDAR Topographic Survey and Mapping under Follow-up Study on Paranaque Spillway</p>																																	
<p>ENGINEER ON RECORD</p> <p>REG. NO. _____</p> <p>EXPIRES _____</p> <p>ISSUE DATE _____</p> <p>ISSUED BY _____</p> <p>DATE OF ISSUE _____</p>		<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION													<p>DESIGNER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION													<p>SHRINK SCALE AS INDICATED</p> <p>REV. A</p> <p>DRAWING SHEETS: JCA1_INDEX_MAP_A3</p>	
NO.	DATE	DESCRIPTION																																			
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<p>NOTES</p>		<p>INDEX MAP</p>		<p>INDEX MAP</p>																																	

7.10.1. CONTOURS + EXTRACTED FEATURES



Feature Extraction

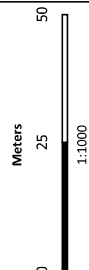
MAP INDEX




LEGEND

- Area of Interest
- 1m Contour
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retreatment

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982
SURVEY DATE
 AUGUST 2020



NOTES

 CTI Engineering Co., Ltd.	 AERO INTERNATIONAL
CLIENT	SURVEYOR

I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	
NAME	SIGNATURE

SURVEY TEAM	
NAME	DESIGNATION

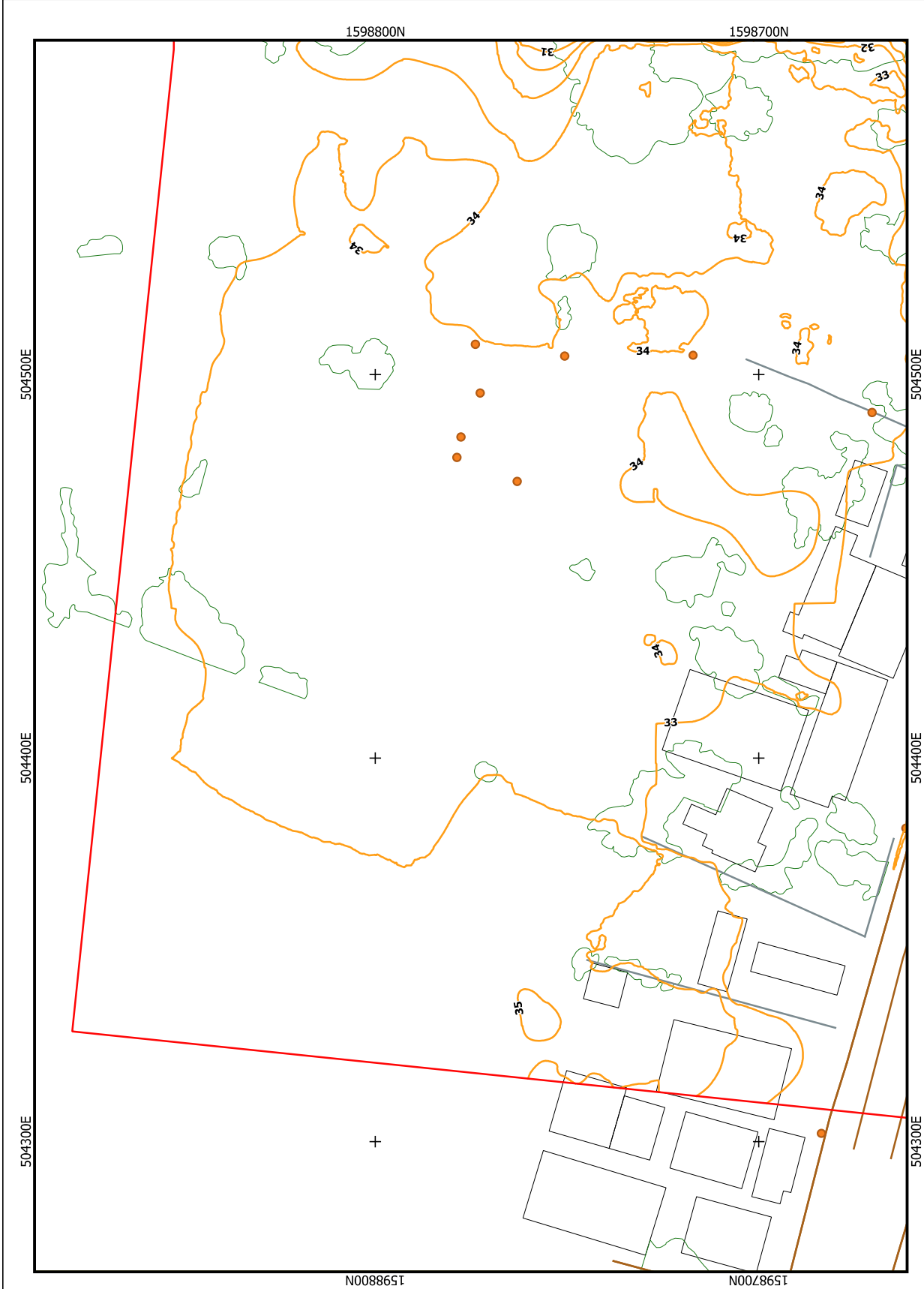
REVISION	
NO.	DATE

DESIGNER	
NAME	SIGNATURE

**LIDAR Topographic Survey and Mapping
 under Follow-up Study on Parañaque Spillway**

Survey Area 1 - Feature Extraction

SHEET NUMBER
01/18





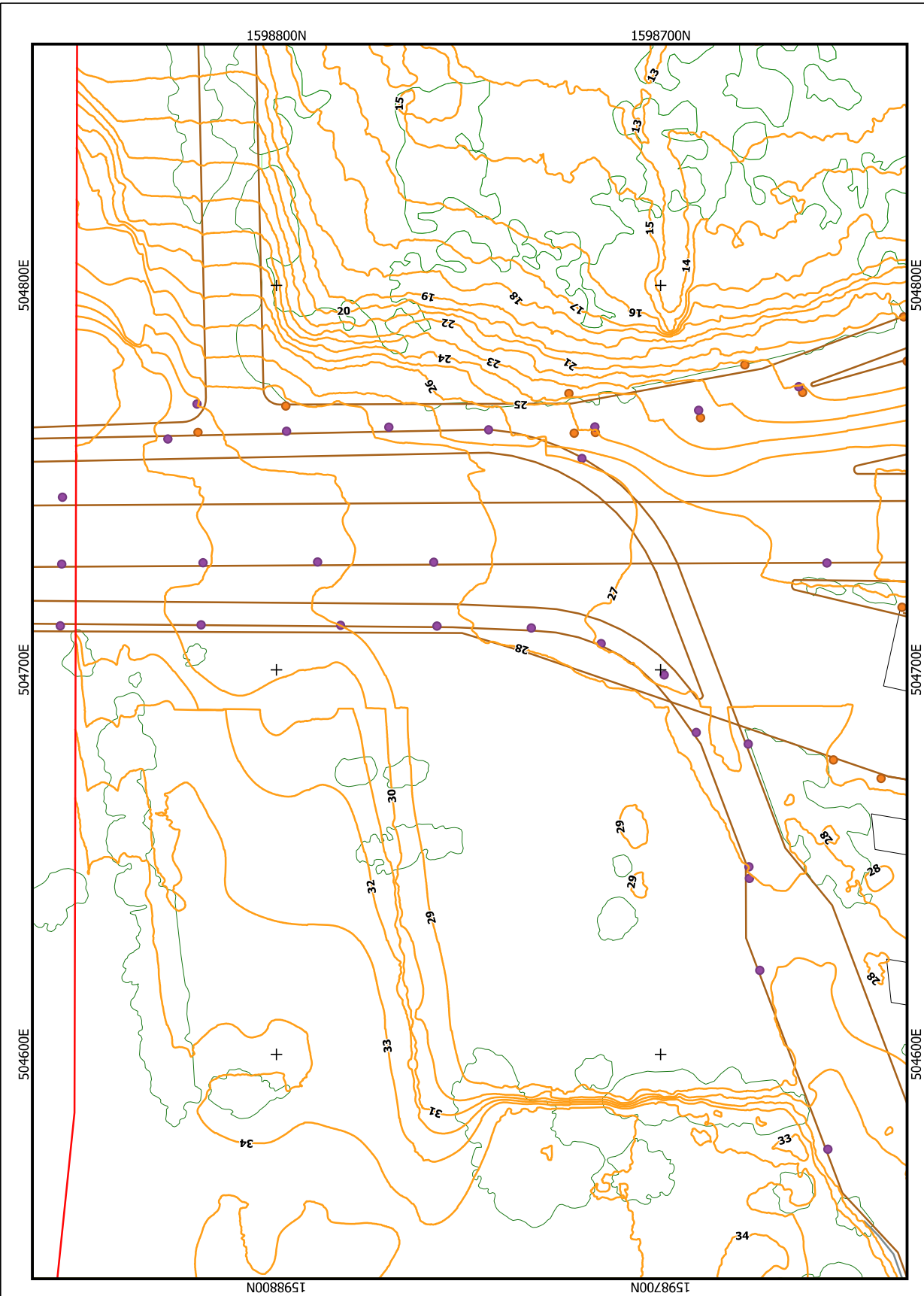
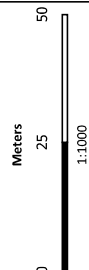
Feature Extraction

MAP INDEX



- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
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MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
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CLIENT

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SUPPLIER

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REG. NO.	PRO. NO.	NAME	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

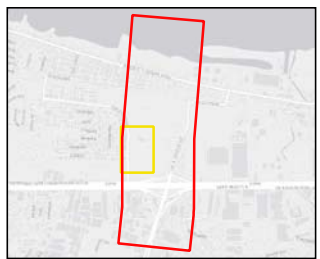
SURVEY NAME
 Survey Area 1 - Feature Extraction

SHEET NUMBER
 02/18



Feature Extraction

MAP INDEX

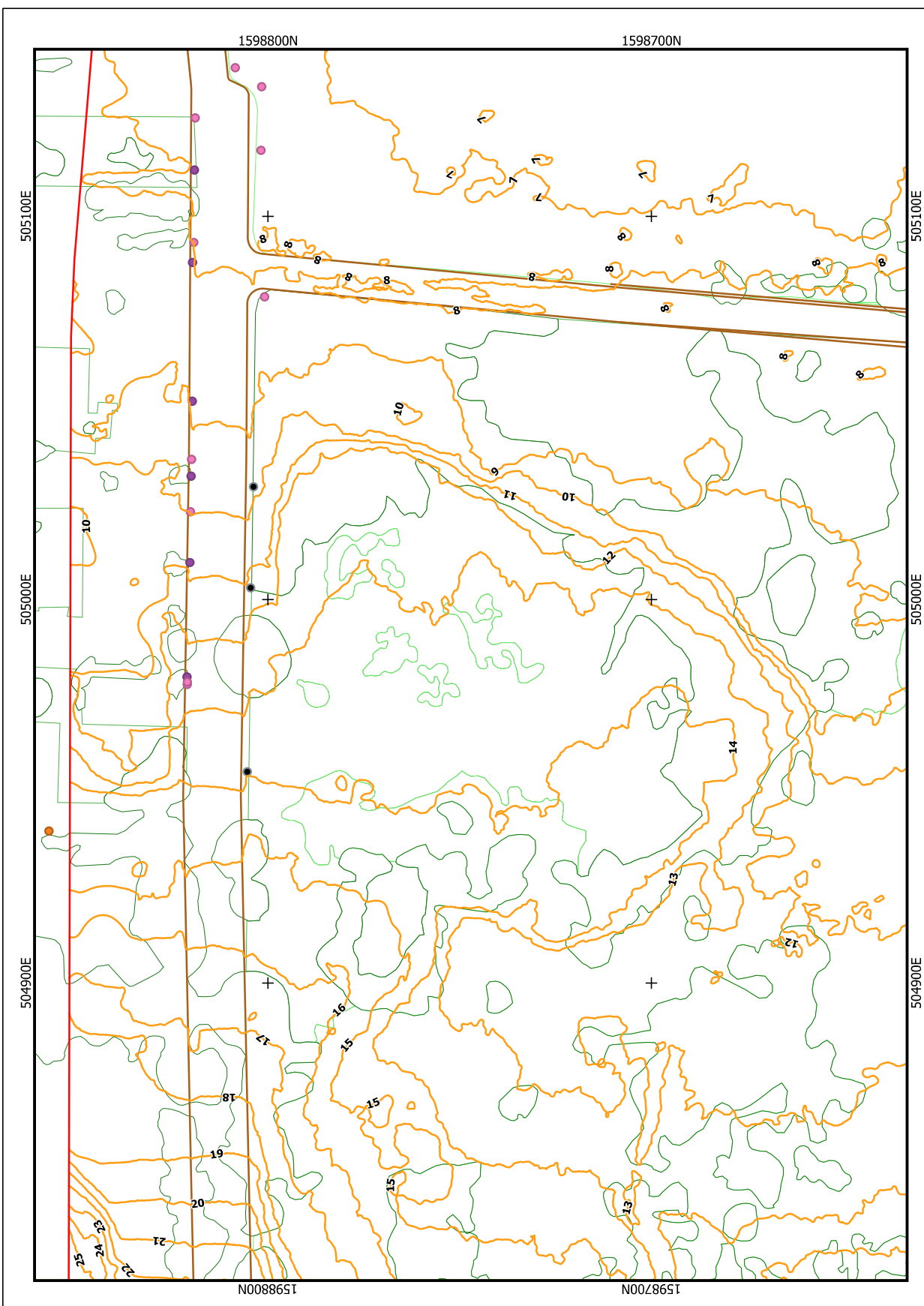
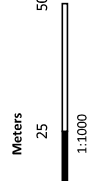


LEGEND

[Red Outline]	Area of Interest
[Orange Outline]	1m Contour
[Red Circle]	Electric Post
[Black Circle]	Electric Tower
[Purple Circle]	Lamp Post
[Black Dot]	Post
[Pink Circle]	Telephone Post
[Black Circle]	Tower
[Red Line]	Road
[Blue Line]	River
[Grey Line]	Wall
[Yellow Line]	Retainment
[Green Outline]	Trees
[Light Green Outline]	Shrubs and Bushes
[Blue Outline]	Pond
[Light Blue Outline]	Mangrove
[Yellow Outline]	Grassland
[Light Green Outline]	Coastline
[White Outline]	Bare Land
[Black Outline]	Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
 AUGUST 2020



CIENT	SURVEYOR

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ENGINEER ON RECORD	SURVEY TEAM	NAME	DATE	REV/SON	DESIGNER																																																							
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LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway			Survey Area 1 - Feature Extraction
PROJECT NUMBER	PROJECT LOCATION	DATE OF FIELD WORK	DATE OF PLAN
03/18			

Feature Extraction



LEGEND

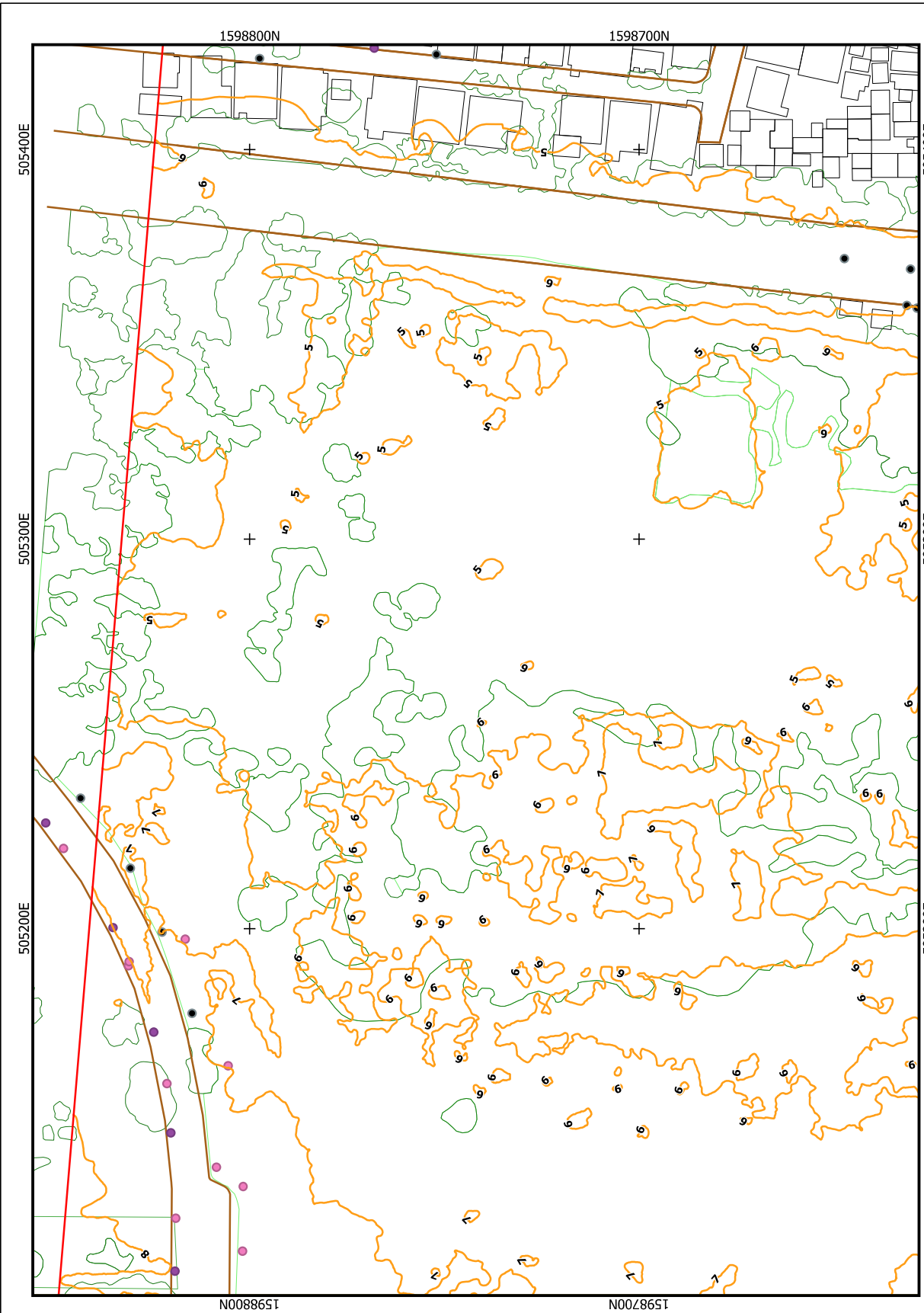
- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50

1:1000



CLIENT	SURVEYOR		AERO INTERNATIONAL																																
	CTI Engineering Co., Ltd.																																		
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<p>SHEET NUMBER: 04/18</p>		<p>SHEET NAME:</p>																																	



Feature Extraction

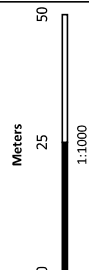
MAP INDEX



LEGEND

	Area of Interest		Trees
	1m Contour		Shrubs and Bushes
	Electric Post		Pond
	Electric Tower		Mangrove
	Lamp Post		Grassland
	Post		Coastline
	Telephone Post		Bare Land
	Tower		Building
	Road		River
	Wall		Retainment

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982
SURVEY DATE
 AUGUST 2020



NOTES

CLIENT

SURVEYOR

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ENGINEER ON RECORD

REG. NO.	CLASS.
PRO. NO.	DATE OF ISSU.
SIGNATURE & ADDRESS	

SURVEY TEAM

NAME	DESIGNATION

DESIGNER

NAME	DESIGNATION

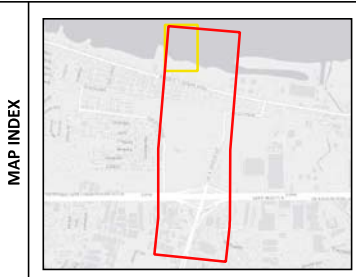
LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY AREA 1 - Feature Extraction

SHEET NUMBER
05/18



Feature Extraction



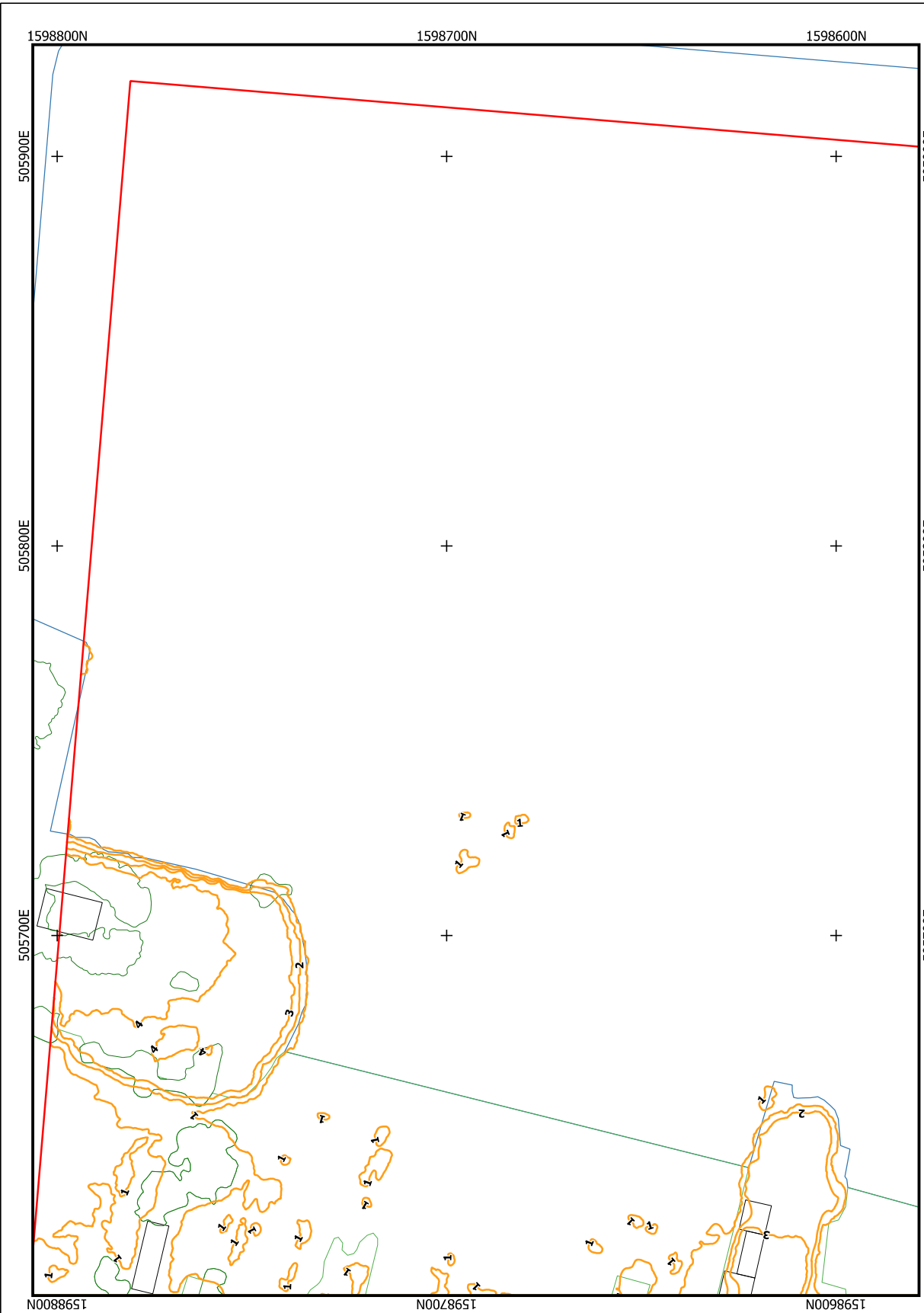
LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retainment
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



CLIENT

SURVEYOR

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REG. NO.	DATE OF REG.	NAME	POSITION	NAME	DATE	NO.	DATE	NO.	DATE	NAME	DATE

PROJECT TITLE
LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SHEET NUMBER
Survey Area 1 - Feature Extraction

DATE
05/18



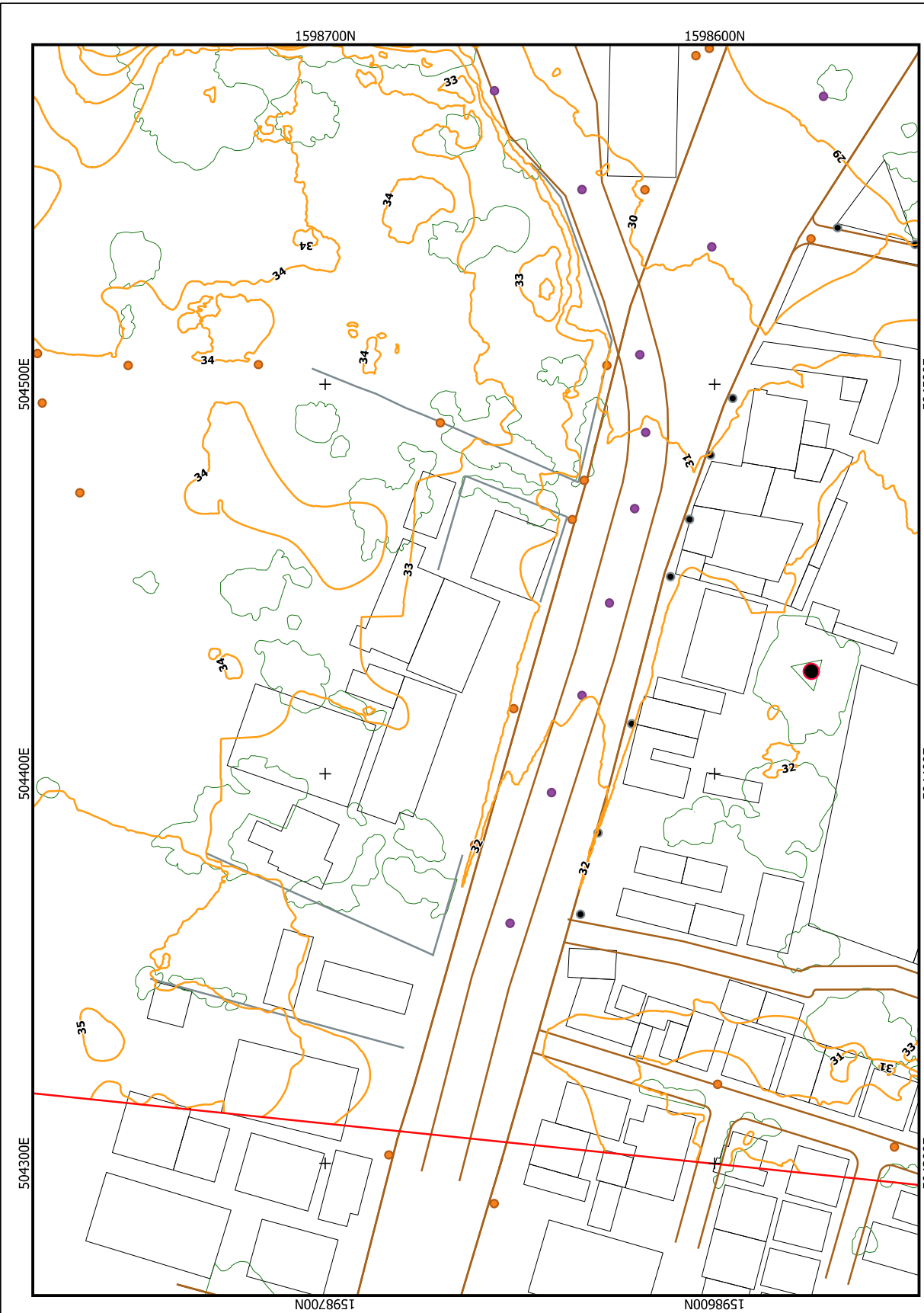
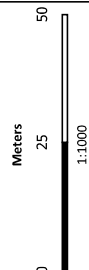
Feature Extraction

MAP INDEX



- LEGEND**
- Area of Interest
 - 1m Contour
 - Shrub and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building
 - Electric Tower
 - Lamp Post
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MAP PROJECTION
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 PHILIPPINE REFERENCE SYSTEM 1982
SURVEY DATE
 AUGUST 2020



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CLIENT

SUPPLIER

ENGINEER ON RECORD

NAME	DATE	DESIGNER

SURVEY TEAM

NAME	DATE	DESIGNER

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY AREA 1 - Feature Extraction

SHEET NUMBER: 07/18



Feature Extraction

MAP INDEX

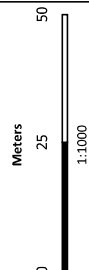


LEGEND

- Area of Interest
- 1m Contour
- Electric Post
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MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
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ENGINEER ON RECORD

REG. NO.	BARO
PRO. NO.	08-03-01
DATE OF ISSUE	08-03-20
DATE OF SIGNATURE	

 SURVEYOR & LICENSED PROFESSIONAL ENGINEER

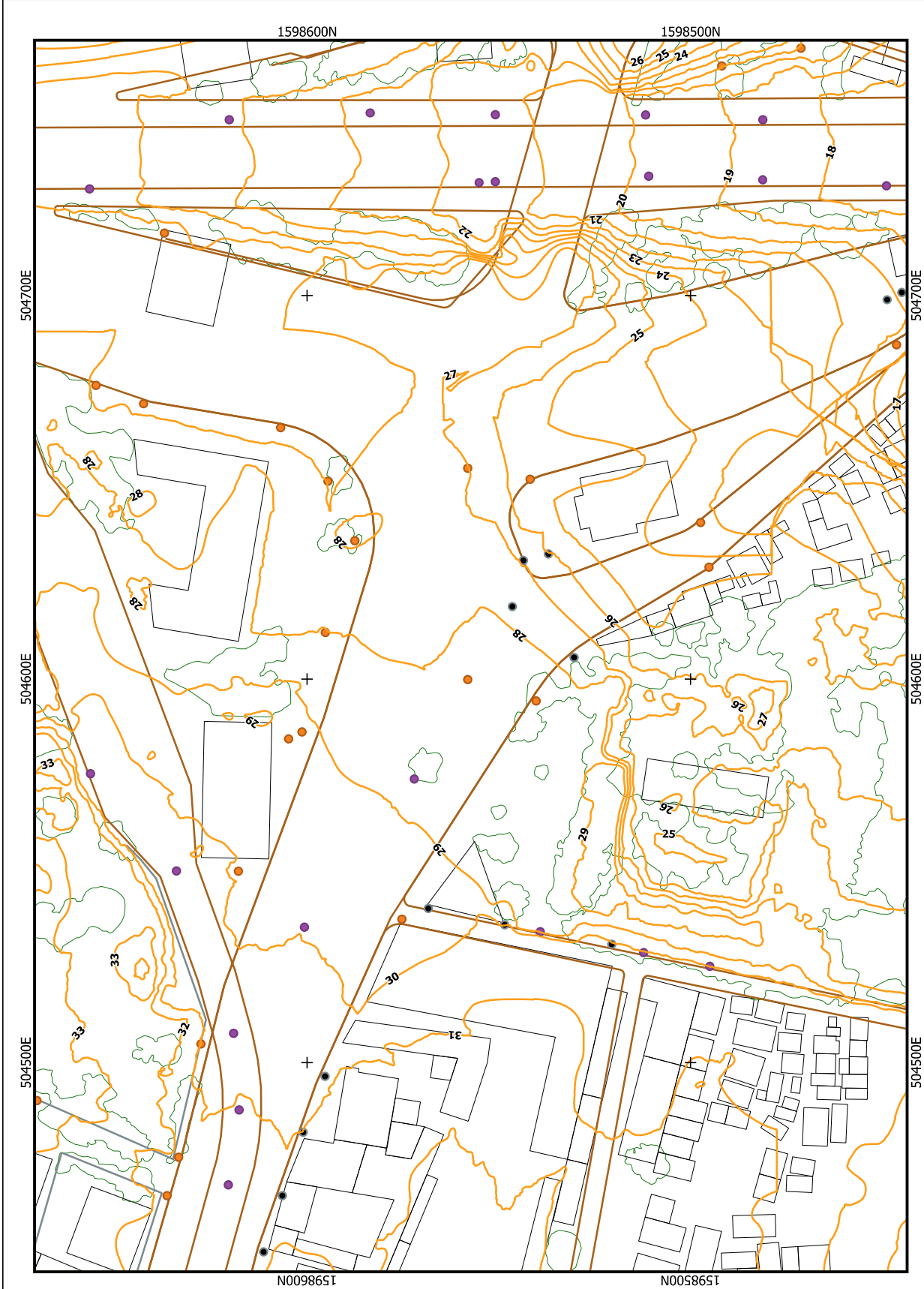
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NAME	DESIGNER
DATE	DATE
REV. NO.	REV. DATE
REV. BY	REV. DATE

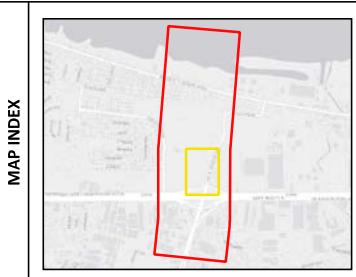
LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY AREA 1 - Feature Extraction

SHEET NUMBER: 08 / 18



Feature Extraction



LEGEND

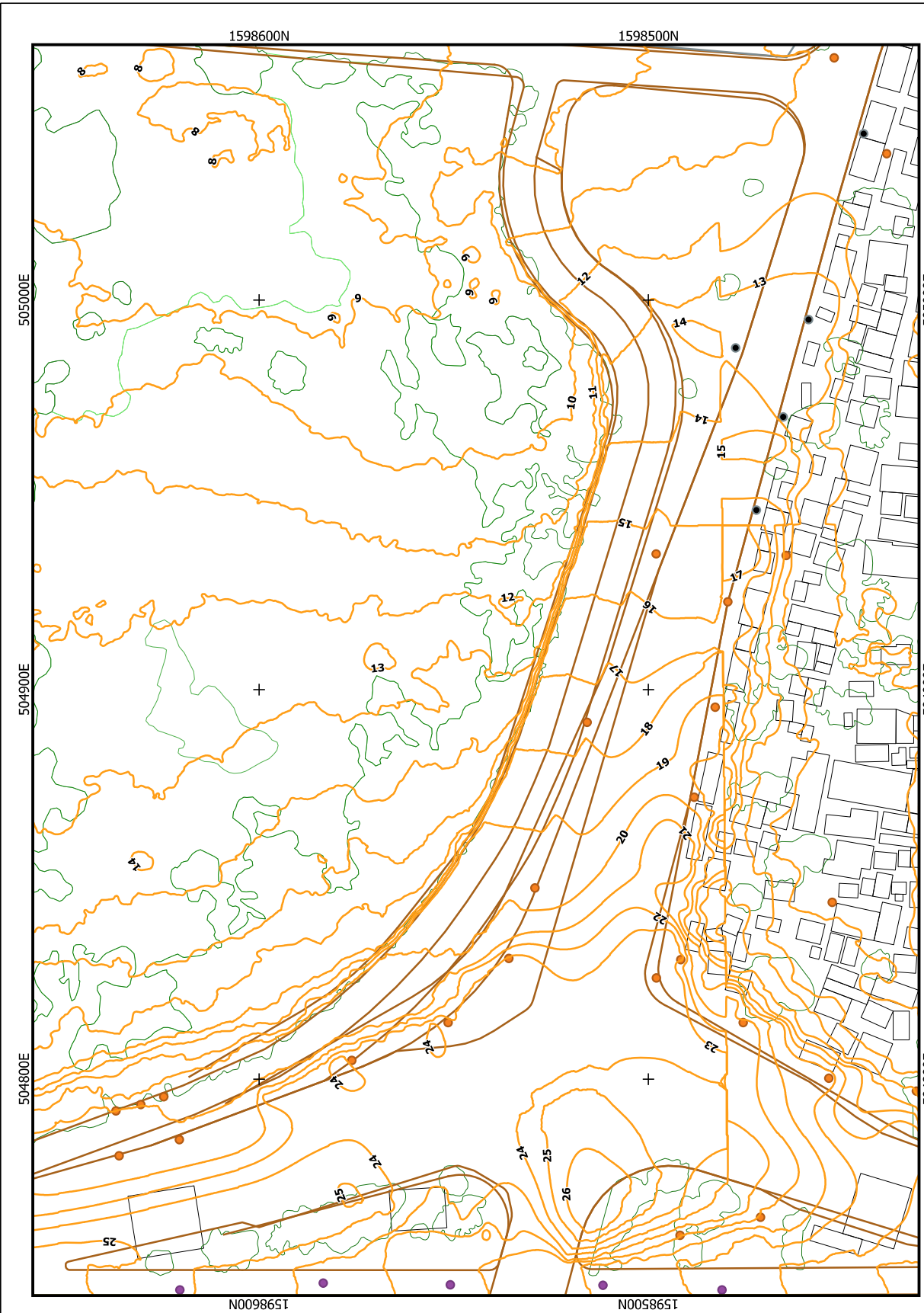
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MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
AUGUST 2020

Meters
0 25 50

Scale: 1:1000



CLIENT
CTI Engineering Co., Ltd.

SURVEYOR
AERO INTERNATIONAL

NOTES

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LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

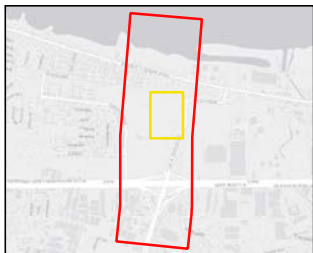
Survey Area 1 - Feature Extraction

SHEET NUMBER
09 / 18



Feature Extraction

MAP INDEX

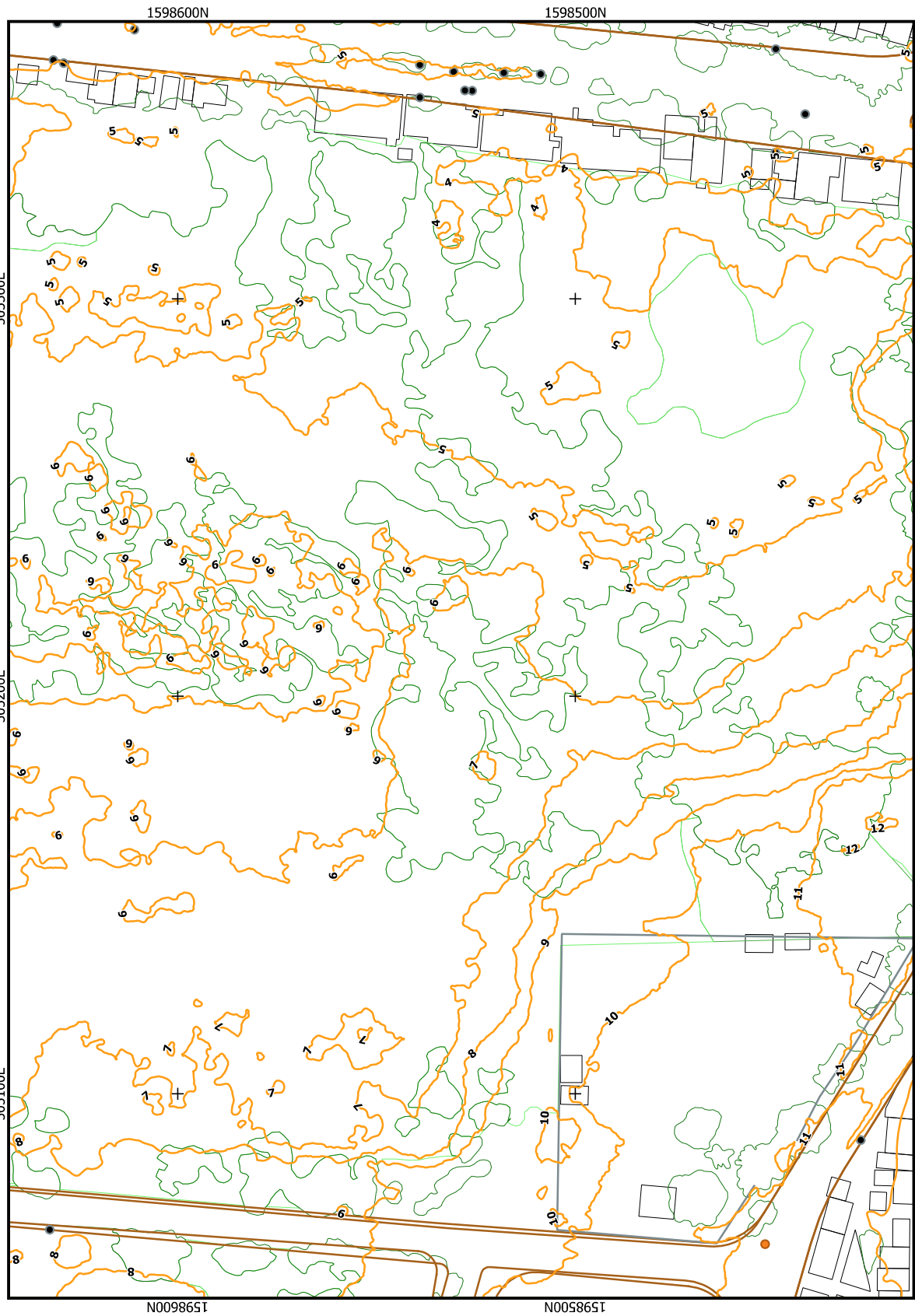
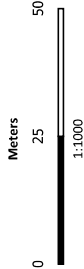


LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
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MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
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SURVEY DATE
AUGUST 2020



CLIENT

SURVEYOR

I hereby certify that this is a correct plan of the survey made by me, personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD

REG. NO.	BARO
PR. NO.	08-03-01
DATE OF REG.	10/03/13

SURVEY TEAM

NAME	DESIGNATION

REVISION

NO.	DATE	DESCRIPTION

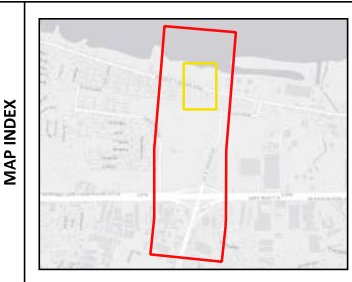
DESIGNER

NAME	DESIGNATION

SHEET NAME
Survey Area 1 - Feature Extraction

SHEET NUMBER
10/18

Feature Extraction



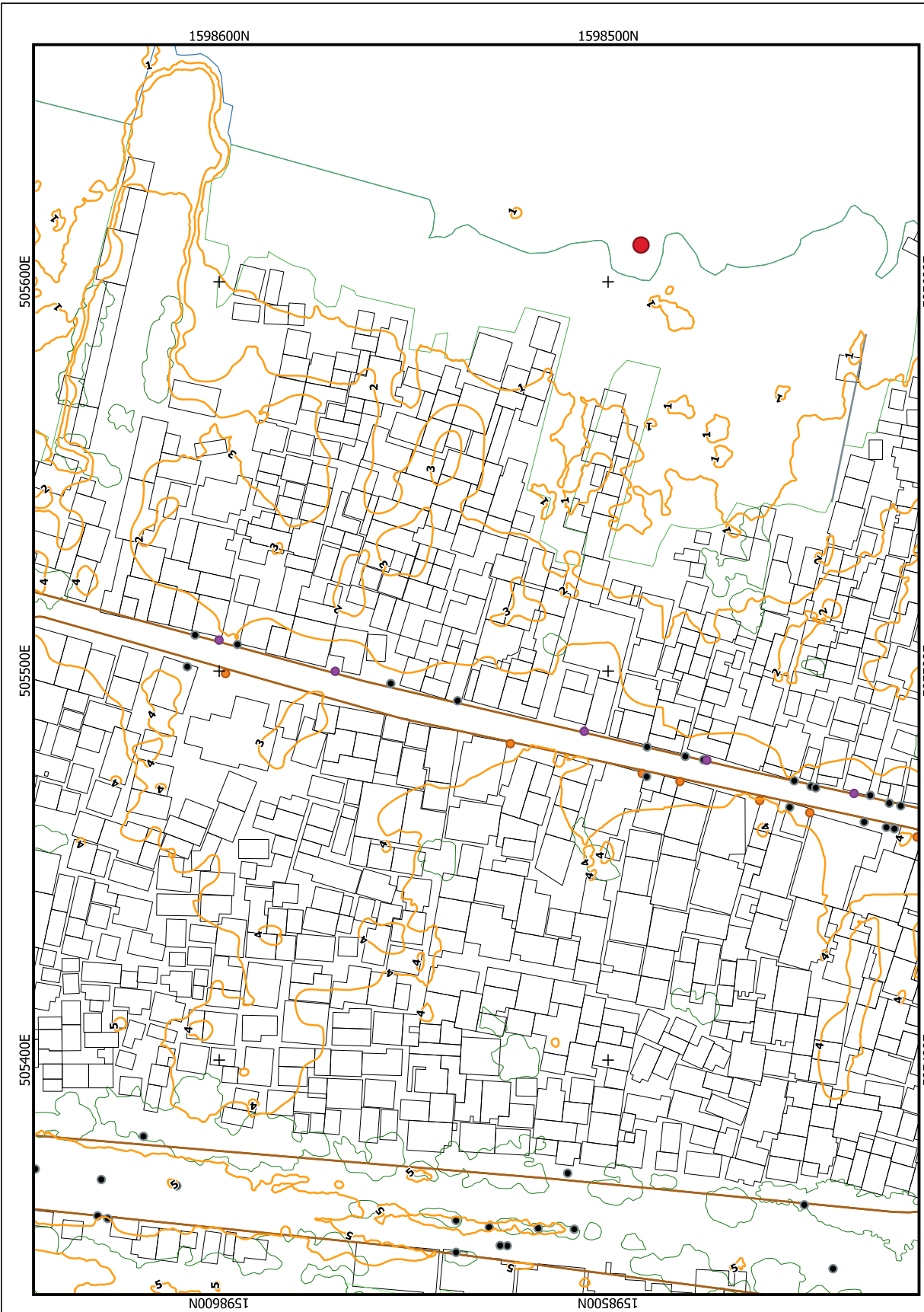
LEGEND

	Area of Interest		Trees
	1m Contour		Shrubs and Bushes
	Electric Post		Pond
	Electric Tower		Mangrove
	Lamp Post		Grassland
	Post		Coastline
	Telephone Post		Bare Land
	Tower		Building
	Road		River
	Wall		Retainment

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



CLIENT	SURVEYOR	 	I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.	ENGINEER ON RECORD NAME: _____ DATE: _____ TITLE: _____ REGISTERED PROFESSIONAL ENGINEER (CENR) NO. _____	SURVEY TEAM NAME: _____ DATE: _____ TITLE: _____ REGISTERED PROFESSIONAL ENGINEER (CENR) NO. _____	DESIGNER NAME: _____ DATE: _____ TITLE: _____ REGISTERED PROFESSIONAL ENGINEER (CENR) NO. _____	SHEET NAME Survey Area 1 - Feature Extraction SHEET NUMBER 11/18
				AERO INTERNATIONAL 300 INTERNATIONAL	CTI Engineering Co., Ltd.		

Feature Extraction



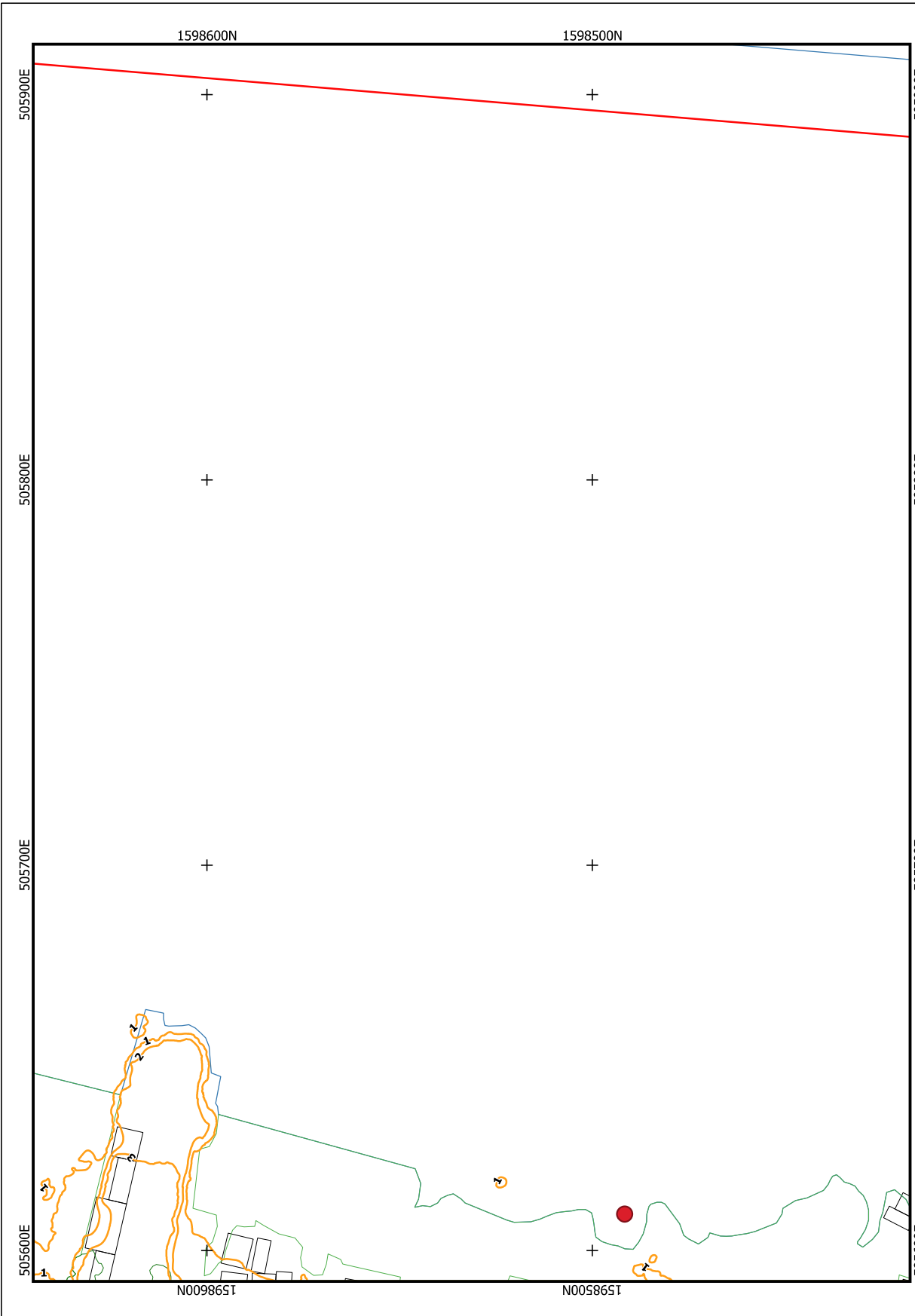
LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



CLIENT

SURVEYOR

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ENGINEER ON RECORD

REG. NO.	DATE
PRO. NO.	DATE
PRO. NO.	DATE

SURVEY TEAM

NAME	DATE	REVISION	DESIGNER
CHIEF SURVEYOR			
MAP OPERATOR			
BOUNDARY TECH			
DATA ANALYST			

PROJECT TITLE
LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SHEET NAME
Survey Area 1 - Feature Extraction

SHEET NUMBER
12/18



Feature Extraction

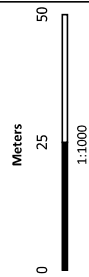
MAP INDEX



LEGEND

Area of Interest	Trees
1m Contour	Shrubs and Bushes
Electric Post	Pond
Electric Tower	Mangrove
Lamp Post	Grassland
Post	Coastline
Telephone Post	Bare Land
Tower	Building
Road	River
Wall	Fencement

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
 AUGUST 2020



NOTES

 CTI Engineering Co., Ltd.	 AERO INTERNATIONAL
CLIENT	SURVEYOR

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ENGINEER ON RECORD

NAME	DATE

SURVEY TEAM

NAME	DATE

REVISION

NO.	DATE	BY	REVISION

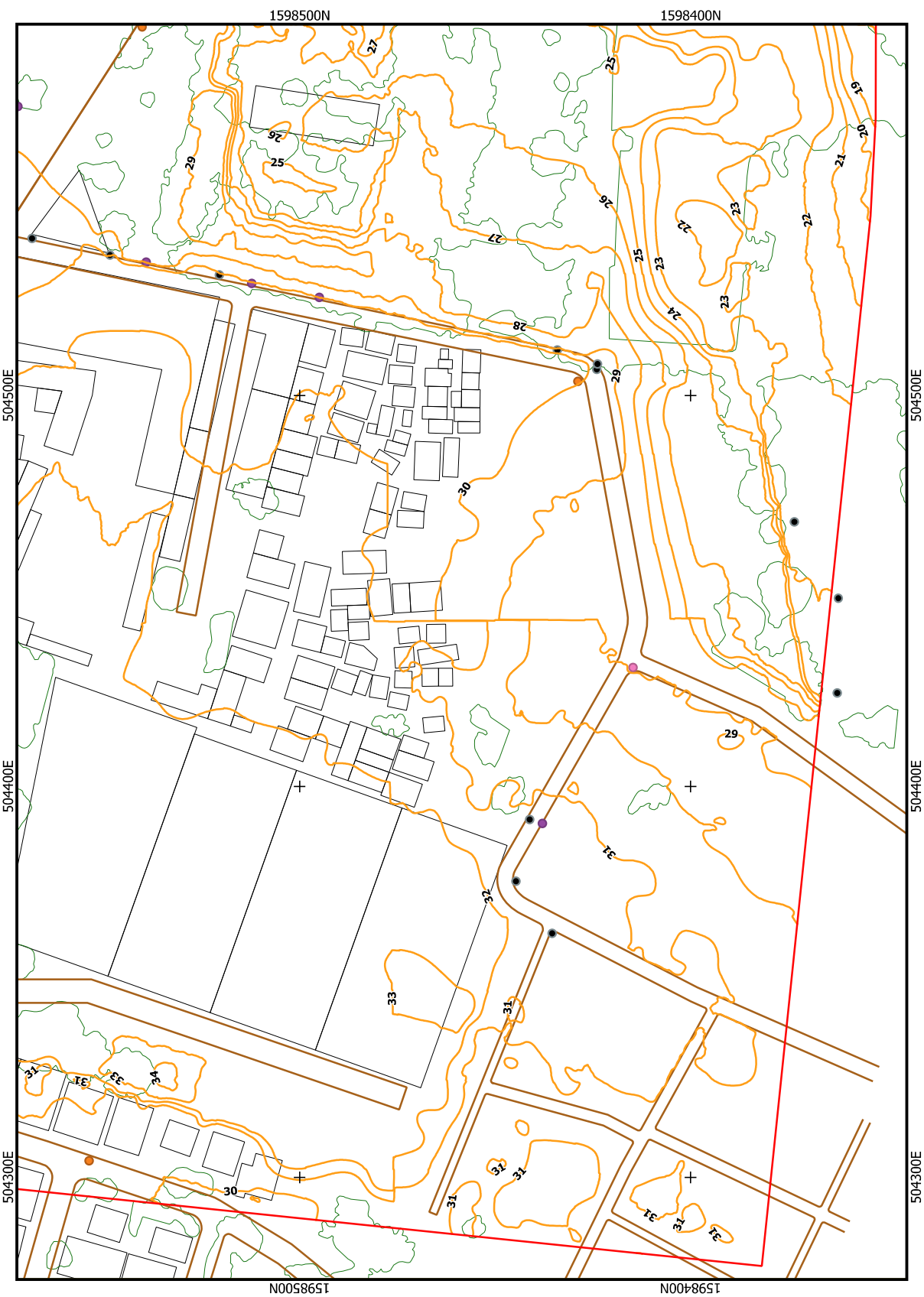
DESIGNER

NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 1 - Feature Extraction

SHEET NUMBER
13 / 18





Feature Extraction

MAP INDEX



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retainment
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

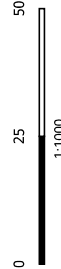
MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

AUGUST 2020

Meters



NOTES

CLIENT



SURVEYOR



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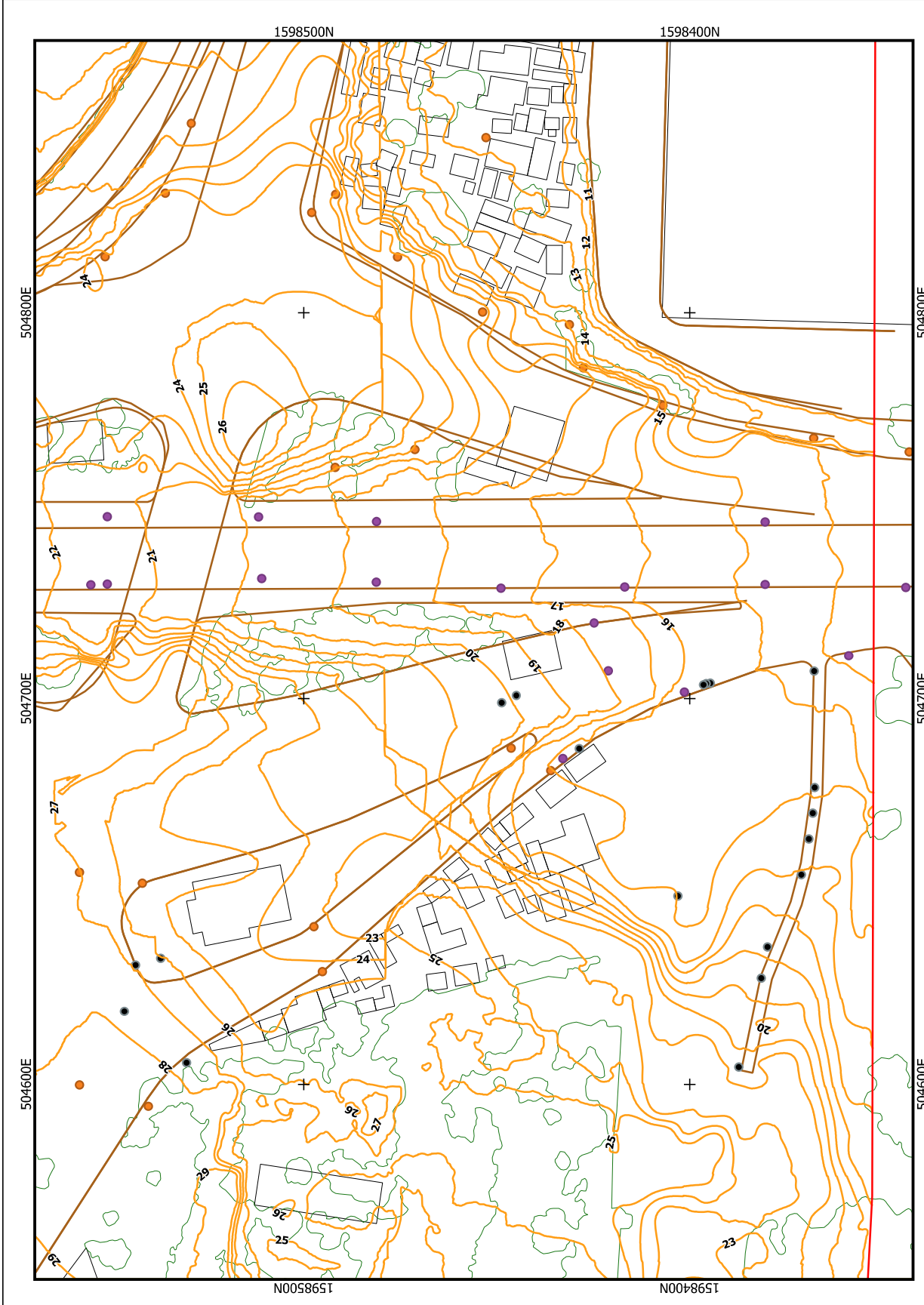
ENGINEER ON RECORD	
REG. NO.	08-03-11
PRO. NO.	08-03-11
DATE OF ISSUANCE	08-03-11
DATE OF REVISION	

SURVEY TEAM	
NAME	DATA ANALYST
DESIGNER	DATA ANALYST

REVISION	DATE	BY	REASON

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

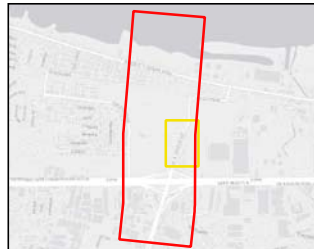
SURVEY NAME: Survey Area 1 - Feature Extraction
SHEET NUMBER: 14 / 18





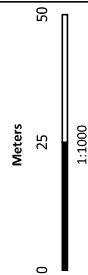
Feature Extraction

MAP INDEX



- LEGEND**
- Area of Interest
 - 1m Contour
 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
 - Wall
 - Retainment

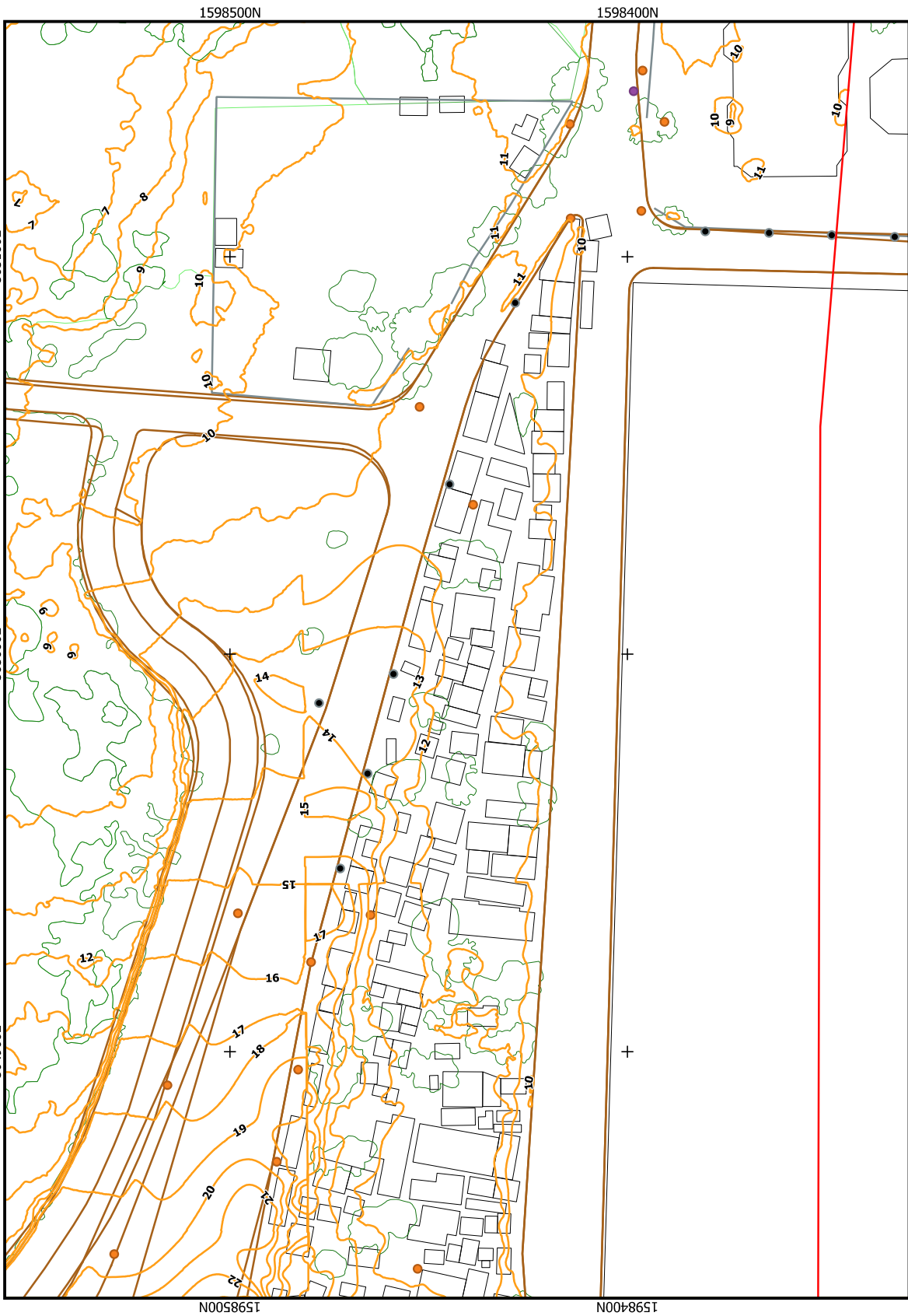
MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
 AUGUST 2020



NOTES

CLIENT: **CTI Engineering Co., Ltd.**

SURVEYOR: **AERO INTERNATIONAL**



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ENGINEER ON RECORD

REG. NO.	BAR.
PRO. NO.	DATE OF ISSU.
DATE OF REGR.	DATE OF REGR.

— SURVEILLANCE AND/OR CORRECTIVE WORKS —

SURVEY TEAM

CHIEF SURVEYOR	DATE
ADJ. CHIEF SURVEYOR	
CHIEF PLANNING	
CHIEF FIELD	
CHIEF DATA	
CHIEF DRAWING	

REVISION

NO.	DATE	DESCRIPTION

DESIGNER

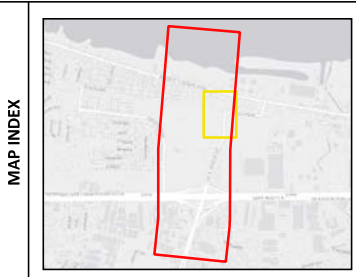
NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY NAME
 Survey Area 1 - Feature Extraction

SHEET NUMBER
 15/18

Feature Extraction



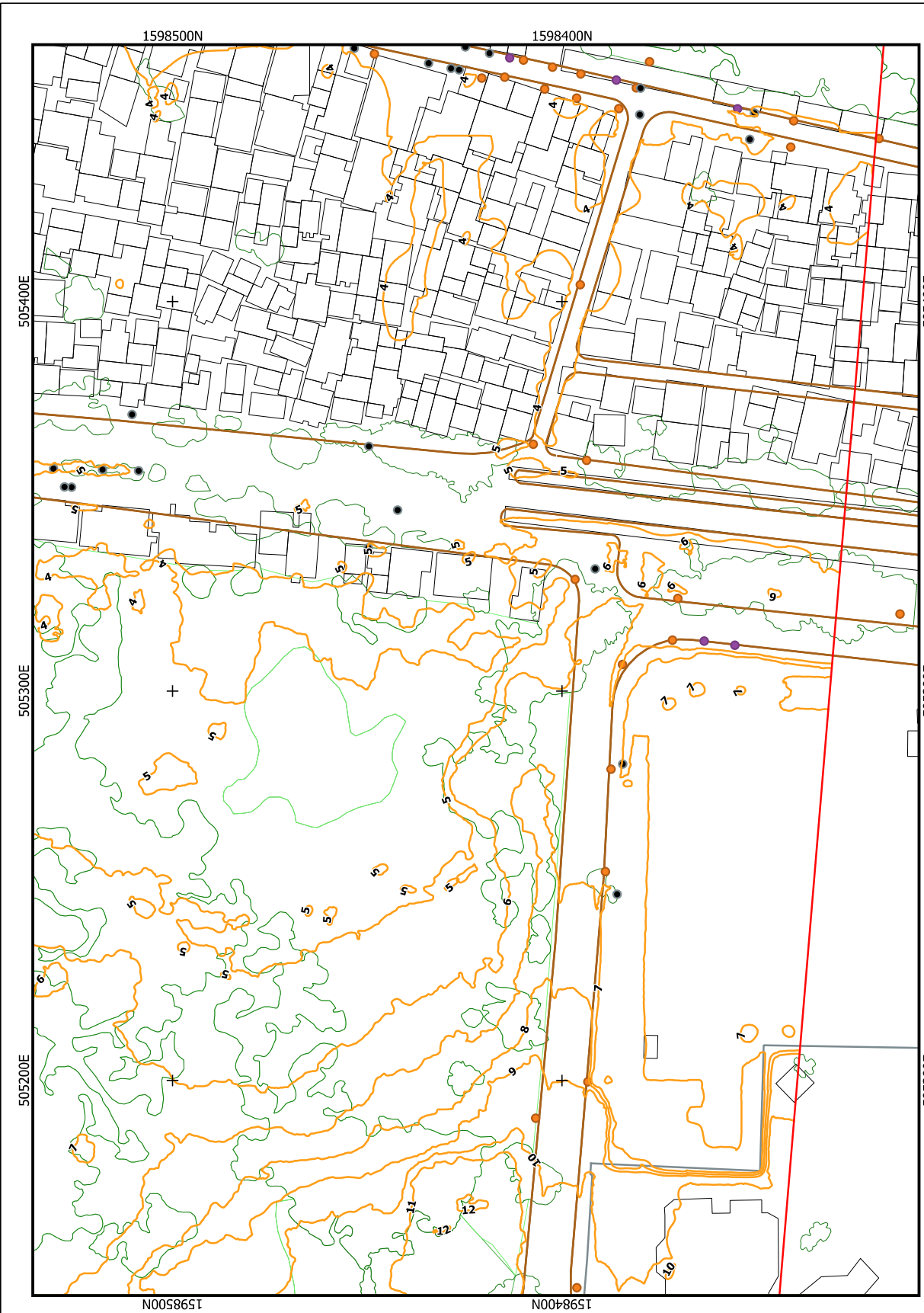
LEGEND

	Area of Interest		Trees
	1m Contour		Shrubs and Bushes
	Electric Post		Pond
	Electric Tower		Mangrove
	Lamp Post		Grassland
	Post		Coastline
	Telephone Post		Bare Land
	Tower		Building
	Road		Retirement
	River		Wall
	Recreation		Recreation

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
 AUGUST 2020

Meters
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CLIENT

SURVEYOR

NOTES

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ENGINEER ON RECORD

REG. NO.	BAR.	DATE
PROJ. NO.	DATE OF PROJ.	

SURVEY TEAM

NAME	DESIGNATION

DESIGNER

NAME	DESIGNATION

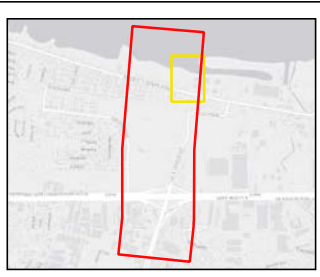
REVISION

NO.	DATE	BY	REVISION

MAP TITLE
 LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SHEET NUMBER
 16/18

Feature Extraction



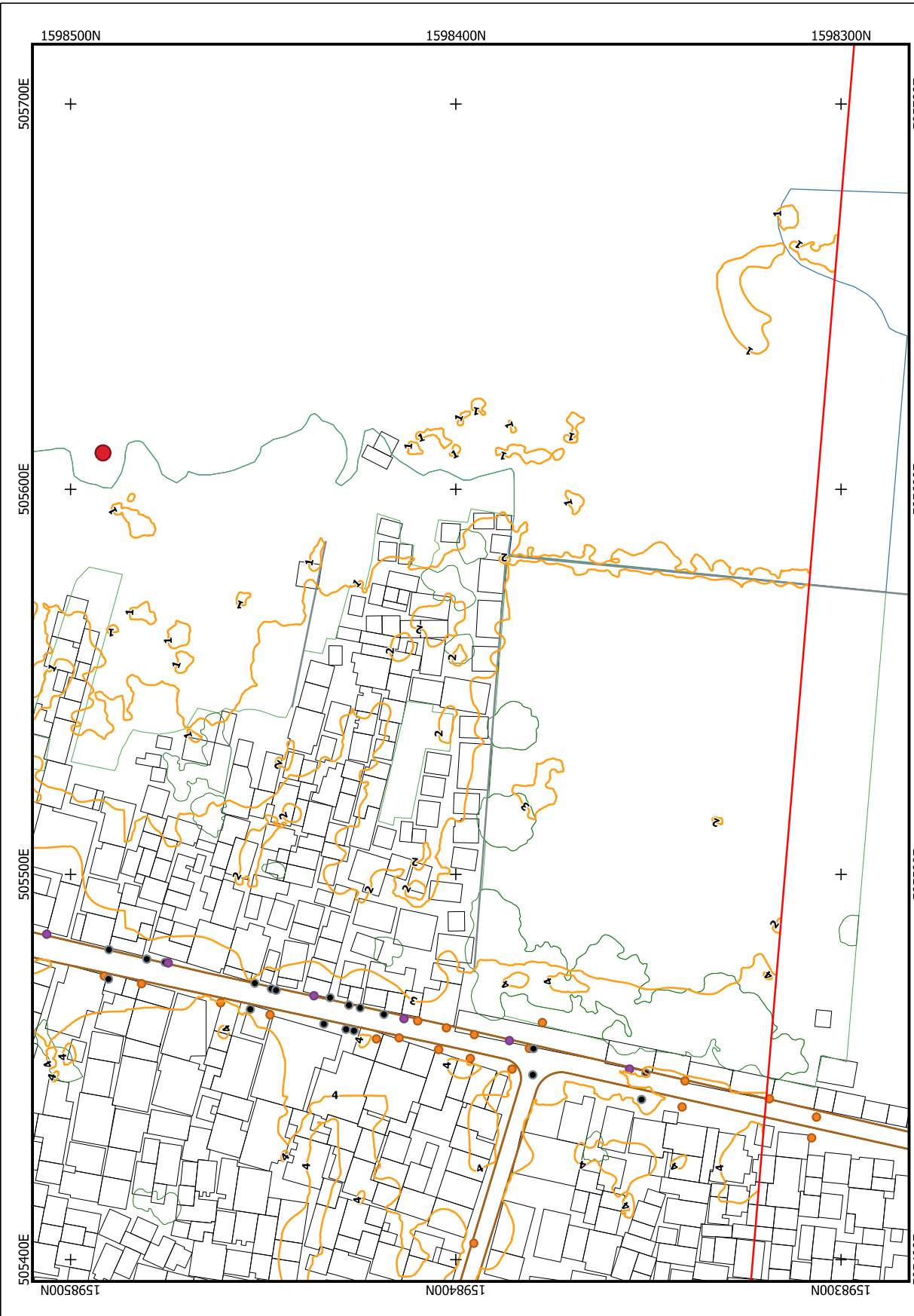
LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retainment
- Frees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Scale
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Meters
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CLIENT

SURVEYOR

NOTES

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ENGINEER ON RECORD		SURVEY TEAM	
NAME	DATE	NAME	DATE
BRADY PUNO	08-03-21	ALAN MORON	08-03-21
ALAN MORON	08-03-21	MARK MORON	08-03-21
ALAN MORON	08-03-21	MARK MORON	08-03-21
ALAN MORON	08-03-21	MARK MORON	08-03-21

LIDAR Topographic Survey and Mapping
under Follow-up Study on Paranaque Spillway

SURVEY NAME
Survey Area 1 - Feature Extraction

SHEET NUMBER
17 / 18



Feature Extraction

MAP INDEX

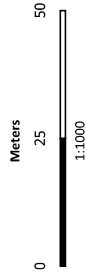


LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retreatment
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
 AUGUST 2020



NOTES

 CTI Engineering Co., Ltd.	 AERO INTERNATIONAL
CLIENT	SURVEYOR

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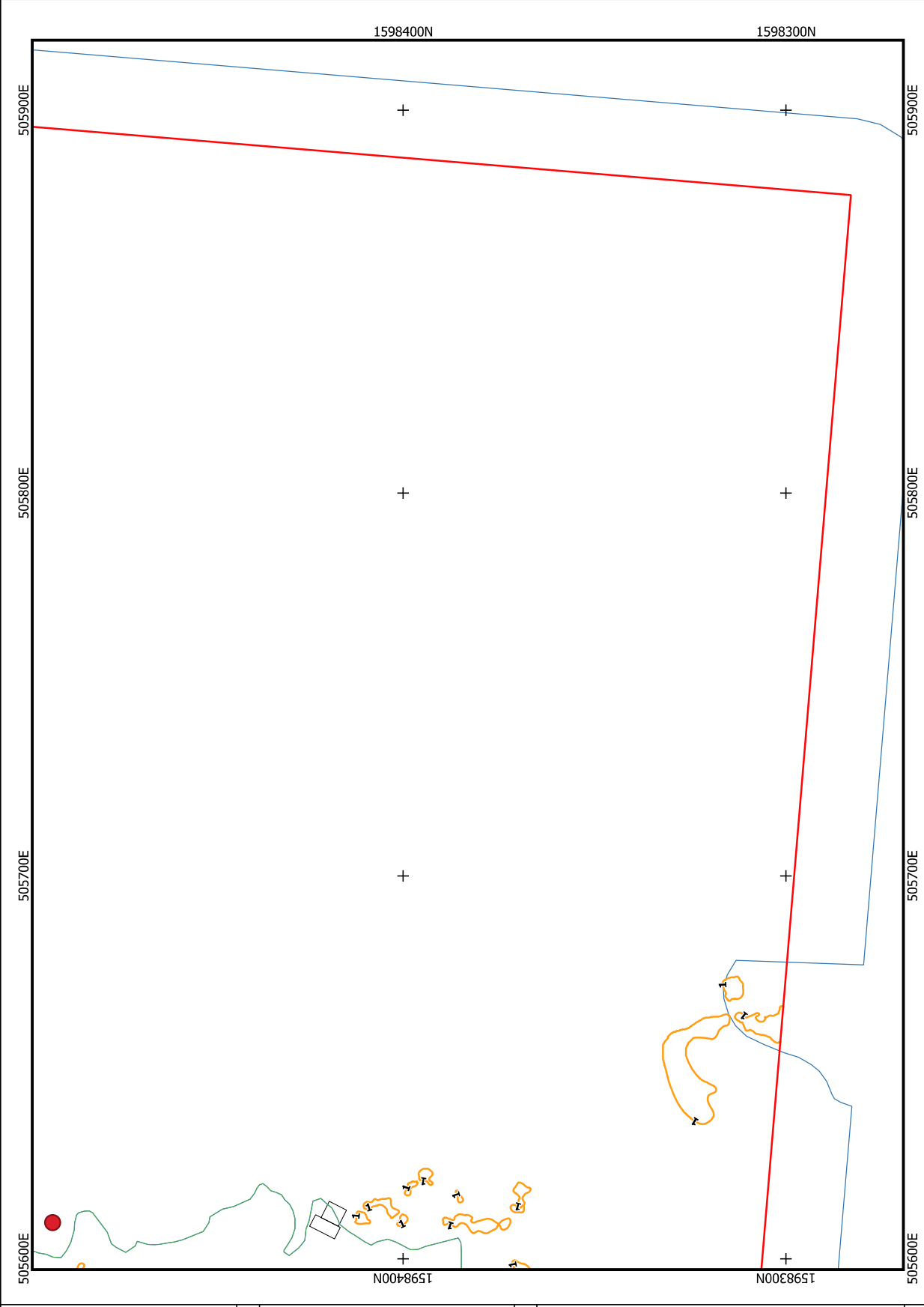
ENGINEER ON RECORD	
NAME	SIGNATURE

SURVEY TEAM	
NAME	DESIGNATION

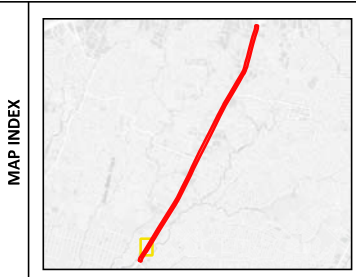
NO.	DATE	REVISION	DESIGNER

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway	Survey Area 1 - Feature Extraction
PROJECT MANAGER SURVEYOR DESIGNER CHECKER DRAWN DATE	PROJECT NO. SHEET NO. TOTAL SHEETS

PROJECT NO.: 18-18 SHEET NO.: 18/18	DATE: 18/18
--	-------------



Feature Extraction



LEGEND

	Area of Interest		Trees
	1m Contour		Shrubs and Bushes
	Electric Post		Pond
	Electric Tower		Mangrove
	Lamp Post		Grassland
	Post		Coastline
	Telephone Post		Bare Land
	Tower		Building
	Road		Retirement
	River		
	Wall		
	Retirement		

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
 AUGUST 2020

Meters
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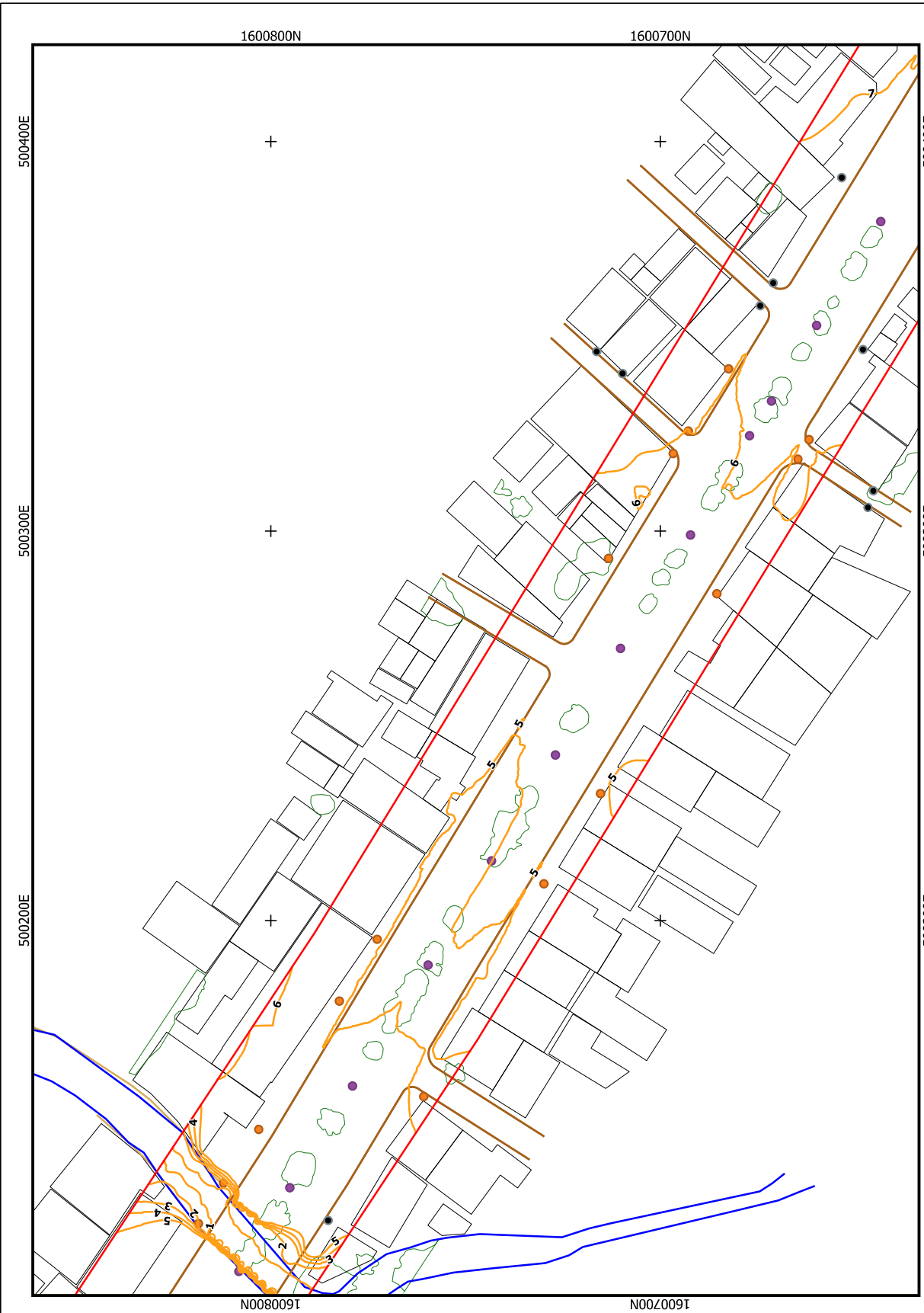
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CLIENT

SURVEYOR

NOTES

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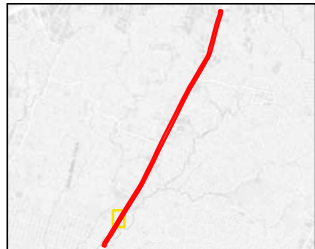


<p>ENGINEER ON RECORD</p> <p>NAME: _____ TITLE: _____ SIGNATURE: _____ DATE: _____</p>	<p>SURVEY TEAM</p> <p>NAME: _____ TITLE: _____ SIGNATURE: _____ DATE: _____</p>	<p>REVISION</p> <table border="1"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		NO.	DATE	DESCRIPTION				<p>DESIGNER</p> <p>NAME: _____ TITLE: _____ SIGNATURE: _____ DATE: _____</p>	<p>APPROVER</p> <p>NAME: _____ TITLE: _____ SIGNATURE: _____ DATE: _____</p>
		NO.	DATE	DESCRIPTION							
<p>PROJECT INFORMATION</p> <p>PROJECT NAME: _____ SHEET NUMBER: _____</p>											
<p>PROJECT LOCATION</p> <p>PROJECT ADDRESS: _____ CITY: _____ STATE: _____ COUNTRY: _____</p>											
<p>PROJECT TITLE</p> <p>LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway</p>											
<p>SHEET INFORMATION</p> <p>SHEET NUMBER: 02/19</p>											



Feature Extraction

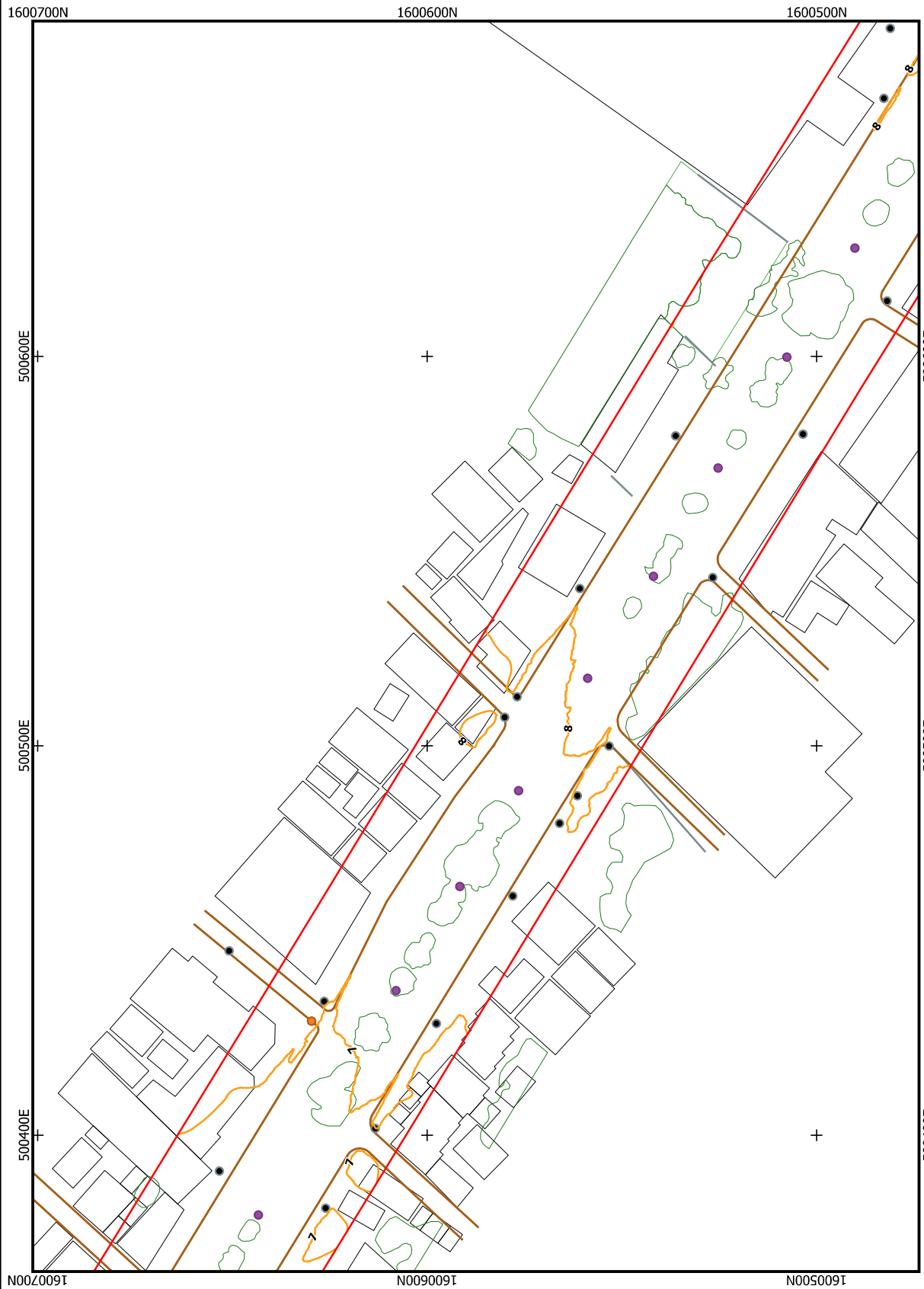
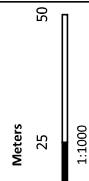
MAP INDEX



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retention
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
 AUGUST 2020



NOTES

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CLIENT

SURVEYOR

ENGINEER ON RECORD

NAME	DATE

SURVEY TEAM

NAME	DATE

REVISION

NO.	DATE	DESCRIPTION

DESIGNER


NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway


SURVEY NAME
 Survey Area 2 - Feature Extraction

SHEET NUMBER
 03 / 19

Feature Extraction



MAP INDEX



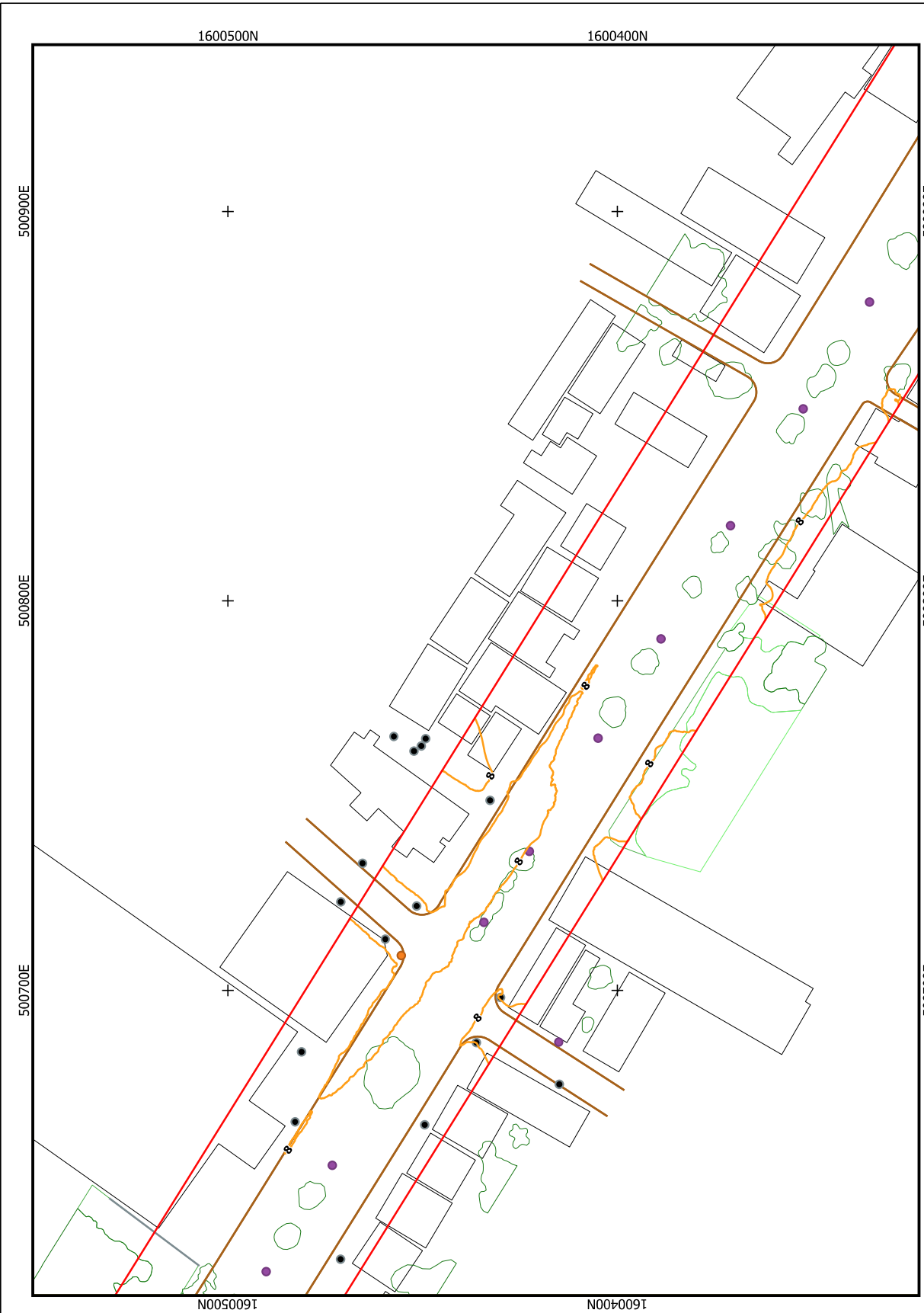
LEGEND



Area of Interest	Trees
1m Contour	Shrubs and Bushes
Electric Post	Pond
Electric Tower	Mangrove
Lamp Post	Grassland
Post	Coastline
Telephone Post	Bare Land
Tower	Building
Road	River
Wall	Retainment

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



<p>CLIENT</p> 	<p>SURVEYOR</p> 	<p>NOTES</p> <p>I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.</p>		<p>ENGINEER ON RECORD</p> <table border="1"> <tr> <td>NAME</td> <td>DATE</td> <td>REV/SDN</td> <td>DESIGNER</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NAME	DATE	REV/SDN	DESIGNER					<p>SURVEY TEAM</p> <table border="1"> <tr> <td>NAME</td> <td>DATE</td> <td>REV/SDN</td> <td>DESIGNER</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NAME	DATE	REV/SDN	DESIGNER					<p>SHIT NUMBER</p> <p>Survey Area 2 - Feature Extraction</p>
		NAME	DATE	REV/SDN	DESIGNER																	
NAME	DATE	REV/SDN	DESIGNER																			
<p>CTI Engineering Co., Ltd.</p>		<p>AERO INTERNATIONAL</p>		<p>DATE</p> <p>04/19</p>	<p>PROJECT NUMBER</p> <p> </p>	<p>SHEET NUMBER</p> <p> </p>																

Feature Extraction



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50

1:1000



CLIENT

SURVEYOR

NOTES

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ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE		REV/SDN		DESIGNER	
REG. NO.	PROF. REG. NO.	NAME	DATE	NO.	DATE	NAME	DATE	NO.	DATE	NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY NAME
Survey Area 2 - Feature Extraction

SHEET NUMBER
05/19

Feature Extraction



- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
 - Wall
 - Retirement
 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992

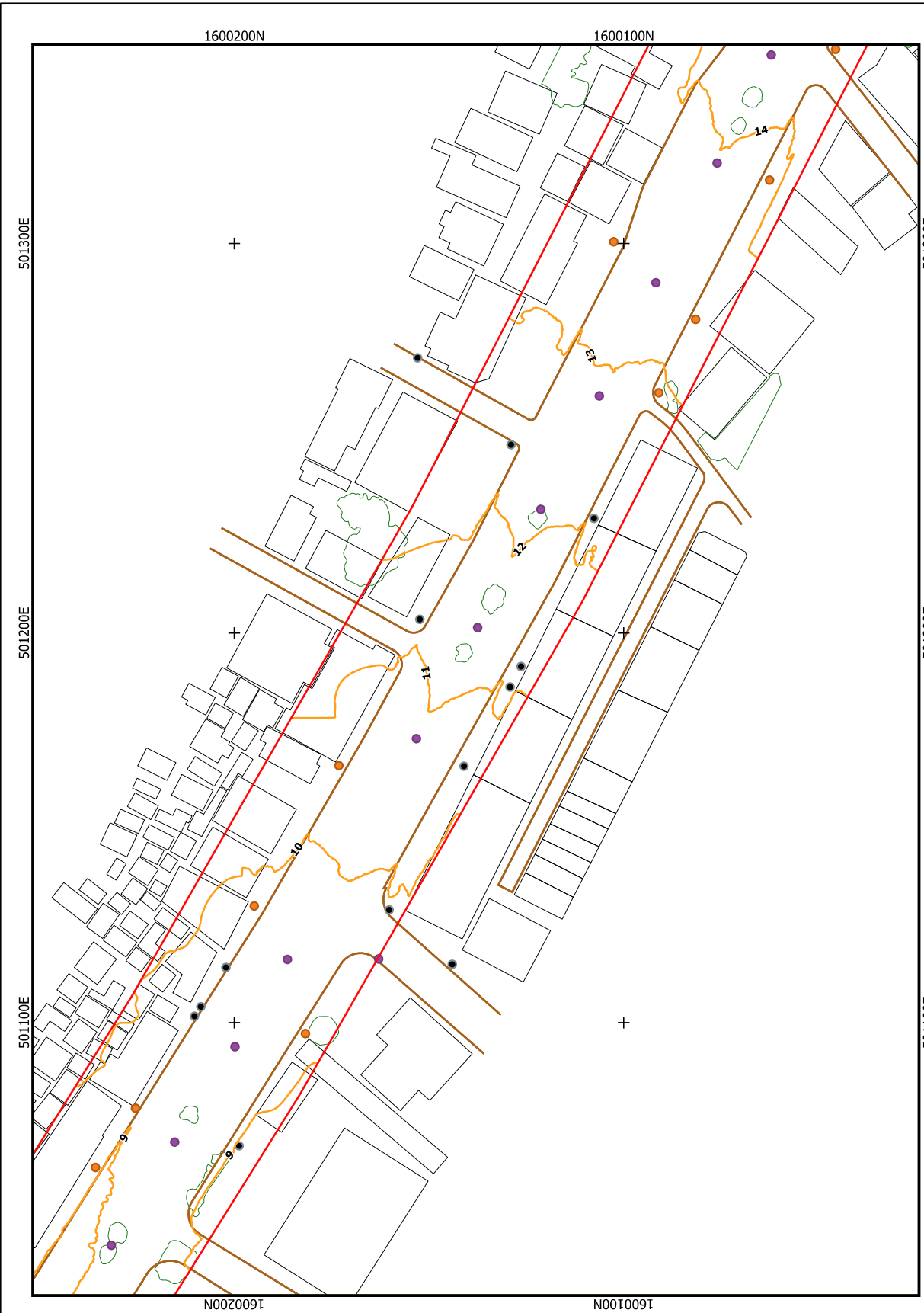
SURVEY DATE
 AUGUST 2020

Meters
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1:1000

CLIENT

SURVEYOR



501100E **501200E** **501300E**

501100N **1600200N** **1600100N**

ENGINEER ON RECORD

NAME	DATE	DESIGNER
MANAGER		DESIGNER
OPERATOR		
TECH		
ANALYST		

SURVEY TEAM

NAME	DATE	DESIGNER
MANAGER		DESIGNER
OPERATOR		
TECH		
ANALYST		

REVISION

REV.	DATE	BY	DESCRIPTION
01			
02			
03			
04			
05			
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10			
11			
12			
13			
14			

NOTES

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Survey Area 2 - Feature Extraction

SHEET NUMBER
 06/19

Feature Extraction



LEGEND

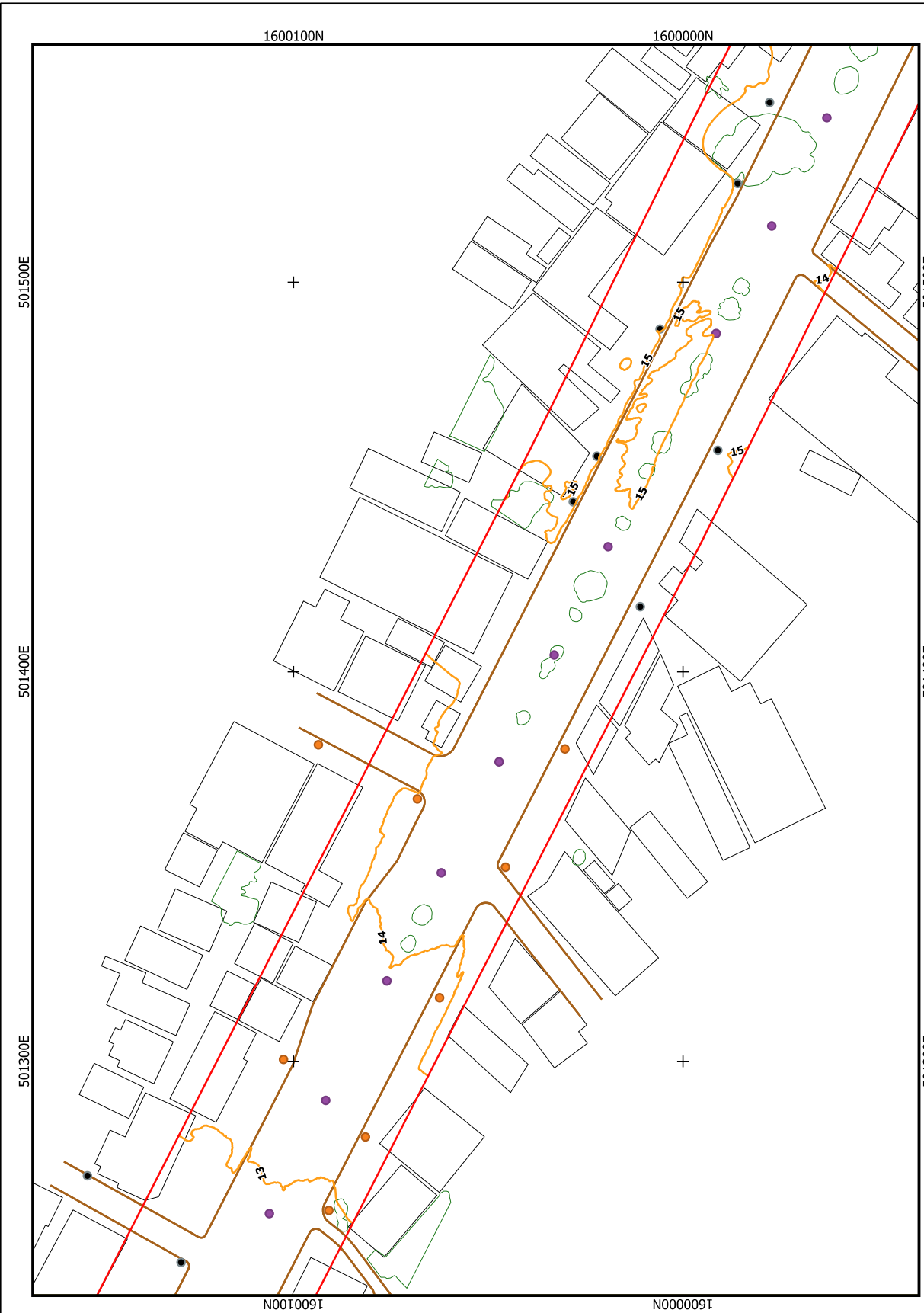
- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992


SURVEY DATE
AUGUST 2020

Meters
0 25 50

1:1000



CLIENT	SURVEYOR			NOTES	I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.	ENGINEER ON RECORD	SURVEY TEAM		NAME	DATE	REV/ISON	DESIGNER	SHEET NAME
						NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE	NAME TITLE SIGNATURE DATE
													Survey Area 2 - Feature Extraction
													SHEET NUMBER
													07/19



Feature Extraction

MAP INDEX



LEGEND

Area of Interest	Trees
1m Contour	Shrubs and Bushes
Electric Post	Pond
Electric Tower	Mangrove
Lamp Post	Grassland
Post	Coastline
Telephone Post	Bare Land
Tower	Building
Road	Retreatment
River	Wall
Wall	
Retreatment	

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



CLIENT



SURVEYOR



I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD

NAME	DATE	REVISION	DESIGNER
NO. 1			

SURVEY TEAM

NAME	DATE	REVISION	DESIGNER
NO. 1			

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SURVEY AREA 2 - Feature Extraction

SHEET NUMBER
08 / 19

Feature Extraction



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50
1:1000



 CTI Engineering Co., Ltd	 AERO INTERNATIONAL	CLIENT	SURVEYOR	I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.	ENGINEER ON RECORD NAME: _____ TITLE: _____ DATE: _____	SURVEY TEAM SURVEY MANAGER: _____ LIDAR OPERATOR: _____ PHOTOGRAPHER: _____ DATA MANAGER: _____	ENGINEER ON RECORD NAME: _____ TITLE: _____ DATE: _____	SURVEY TEAM SURVEY MANAGER: _____ LIDAR OPERATOR: _____ PHOTOGRAPHER: _____ DATA MANAGER: _____	DESIGNER NAME: _____ TITLE: _____ DATE: _____	LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway	SHEET NAME Survey Area 2 - Feature Extraction

Feature Extraction

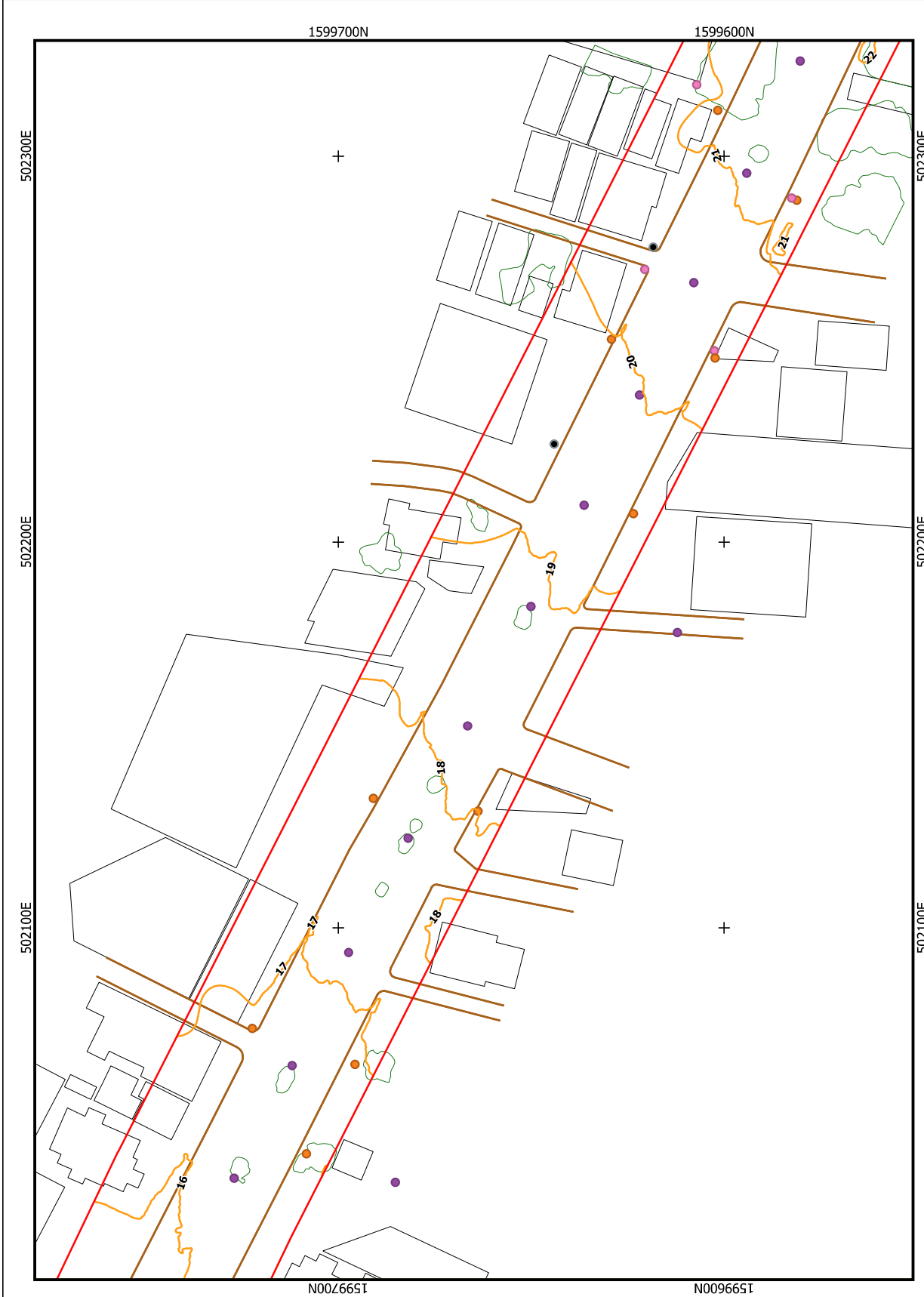


LEGEND

 Area of Interest	 Trees
 1m Contour	 Shrubs and Bushes
 Electric Post	 Pond
 Electric Tower	 Mangrove
 Lamp Post	 Grassland
 Post	 Coastline
 Telephone Post	 Bare Land
 Tower	 Building
 Road	 Retainment
 River	 Wall
 Tower	

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
 AUGUST 2020

Meters
 0 25 50
 1:1000



CLIENT

SURVEYOR

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ENGINEER ON RECORD

NAME	DATE
DESIGNER	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE

REVISION

REV.	DATE	DESCRIPTION

DESIGNER

NAME	DATE
------	------

LIDAR Topographic Survey and Mapping
 under Follow-up Study on Parañaque Spillway

Survey Area 2 - Feature Extraction

SHEET NUMBER: 10/19

Feature Extraction



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
0 25 50

1:1000



CLIENT
CTI Engineering Co., Ltd.

SURVEYOR
AERO INTERNATIONAL

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ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE	DESIGNER		REVISION		SHEET NAME	
REG. NO.	PROF. REG. NO.	NAME	DESIGNATION	DATE	NO.	DATE	BY	CHKD.	NO.	DATE	NO.	NO.
												Survey Area 2 - Feature Extraction
												SHEET NUMBER
												11/19



Feature Extraction

MAP INDEX



LEGEND

[Red outline]	Area of Interest	[Green outline]	Trees
[Orange outline]	1m Contour	[Light green outline]	Shrubs and Bushes
[Blue circle]	Electric Post	[Light blue outline]	Pond
[Red circle]	Electric Tower	[Light green outline]	Mangrove
[Purple circle]	Lamp Post	[Light green outline]	Grassland
[Black circle]	Post	[Light blue outline]	Coastline
[Pink circle]	Telephone Post	[Light blue outline]	Bare Land
[Red circle]	Tower	[Black outline]	Building
[Blue line]	Road	[Blue line]	River
[Black line]	Wall	[Black line]	Retirement

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982
SURVEY DATE
 AUGUST 2020



NOTES

CLIENT	SURVEYOR

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ENGINEER ON RECORD

REG. NO.	BAR.
PRO. NO.	DATE OF ISSU.
DATE OF ISSU.	DATE OF ISSU.

— SURVEILLANCE & RECORDS —
 (SIGNATURE) (PRINTED NAME)

SURVEY TEAM

MANAGER	DESIGNER
COORDINATOR	ASSISTANT
PROPERTY	ANALYST
DATA	
ANALYST	

REVISION

NO.	DATE	BY	REVISION

LIDAR Topographic Survey and Mapping
 under Follow-up Study on Parañaque Spillway

SURVEY NAME
 Survey Area 2 - Feature Extraction

SHEET NUMBER
 12/19



Feature Extraction



- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
 - Wall
 - Retirement
 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
 AUGUST 2020

Meters
 0 25 50

Scale
 1:1000



CLIENT

SURVEYOR

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ENGINEER ON RECORD		SURVEY TEAM		DESIGNER		REVISION		DATE		NAME		SURVEY TEAM		DESIGNER		REVISION		DATE		NAME	
NAME	DESIGNER	NAME	DESIGNER	NAME	DESIGNER	NO.	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 2 - Feature Extraction

SHEET NUMBER
 13 / 19

Feature Extraction



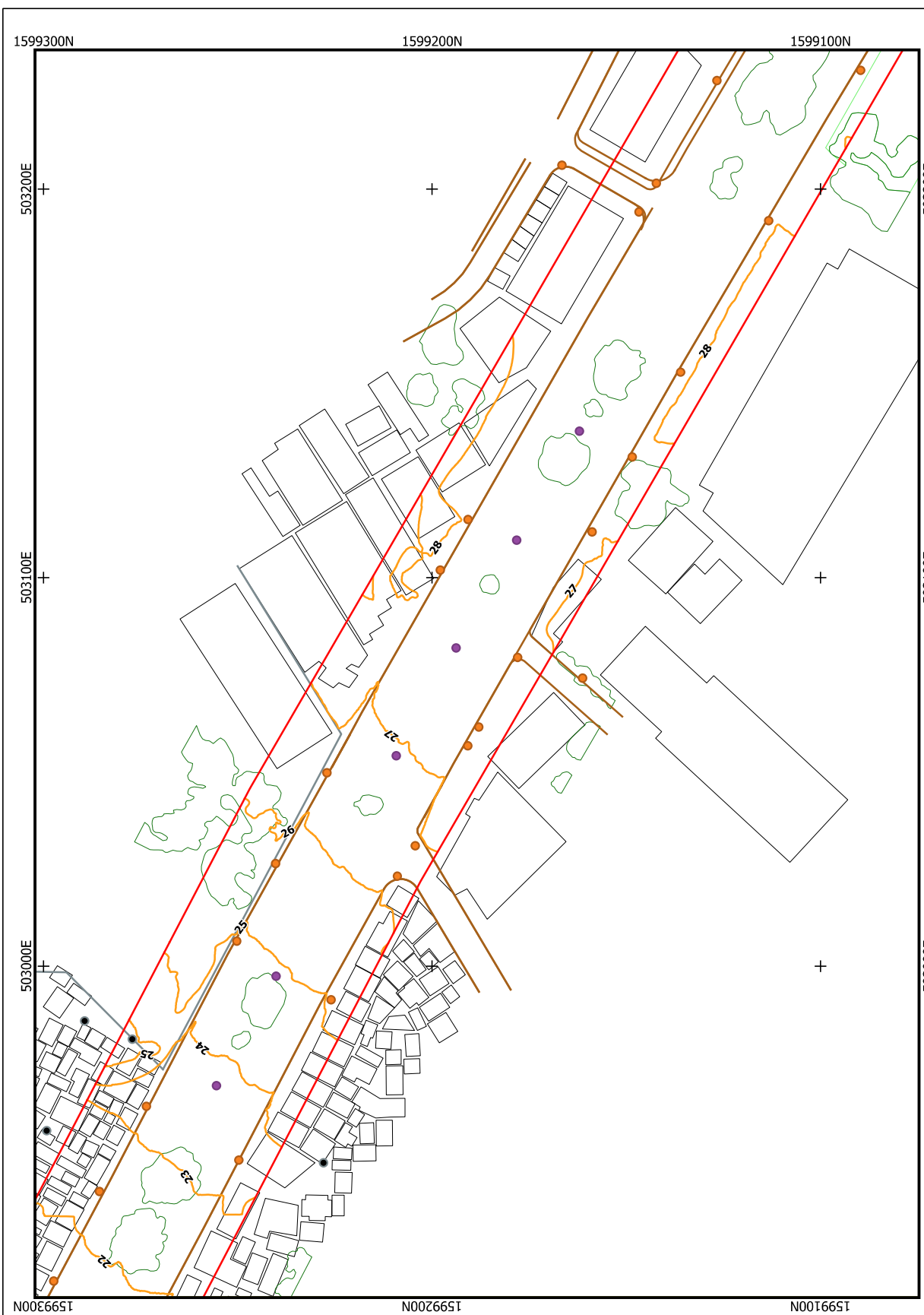
- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
 - Wall
 - Retirement
 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
 AUGUST 2020

Meters
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CLIENT

SURVEYOR

NOTES

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ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE		REV/ISON		DESIGNER	
REG. NO.	PROJ. NO.	DATE OF ISSUE	DATE OF REV.	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

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503200E

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1599200N

1599300N

503000E

503100E

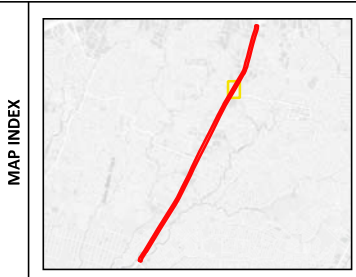
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LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 2 - Feature Extraction

SHEET NUMBER
14 / 19

Feature Extraction



- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
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 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building

MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982

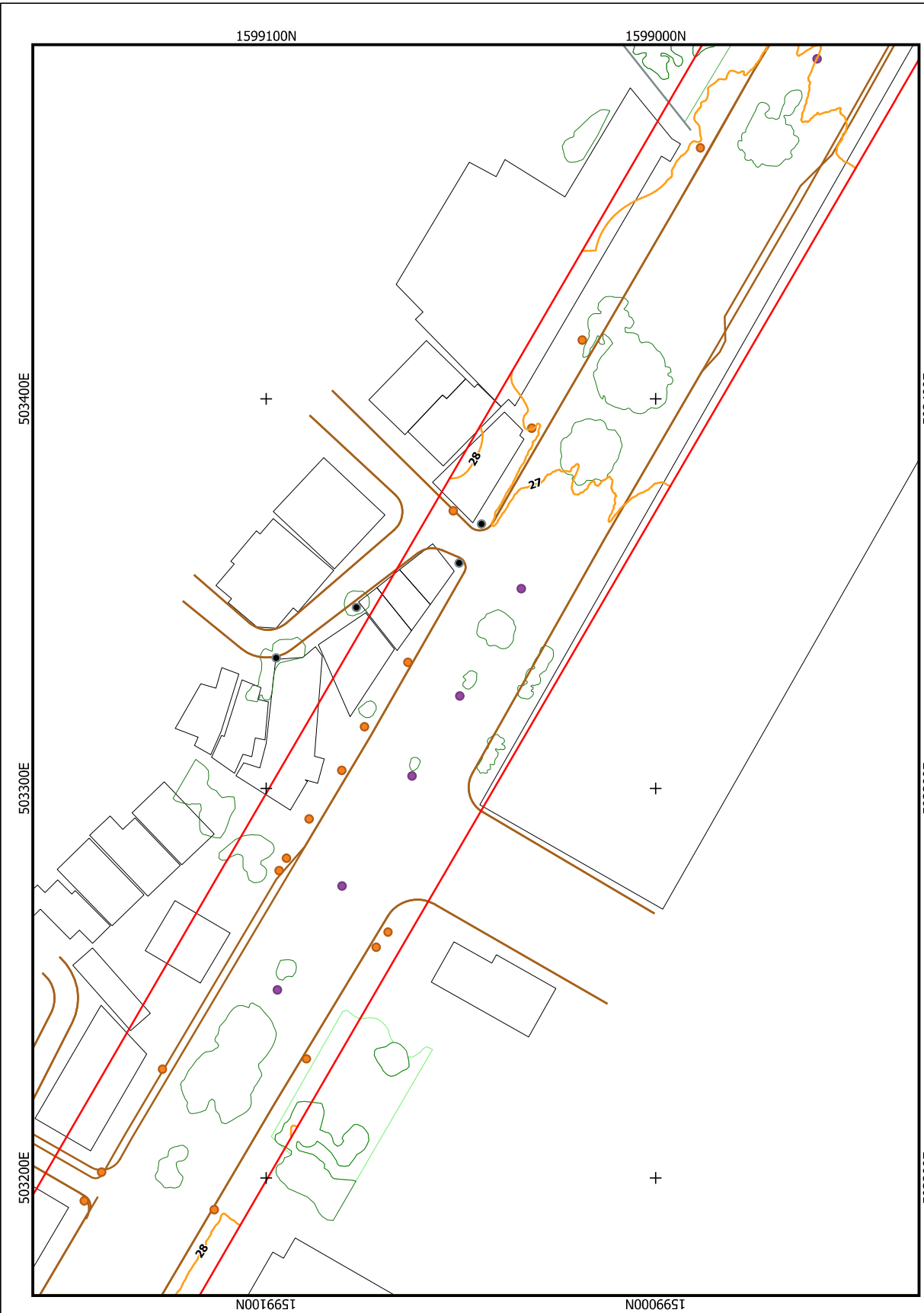
SURVEY DATE
 AUGUST 2020

Meters
 0 25 50

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CLIENT

SURVEYOR



NOTES

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ENGINEER ON RECORD		SURVEY TEAM		REVISION		DESIGNER	
NAME	DATE	NAME	DATE	NO.	DATE	NAME	DATE
MANUEL M. MORALES		MANUEL M. MORALES		01		MANUEL M. MORALES	
JOSEPH B. MORALES		JOSEPH B. MORALES		02		JOSEPH B. MORALES	
...		

PROJECT INFORMATION

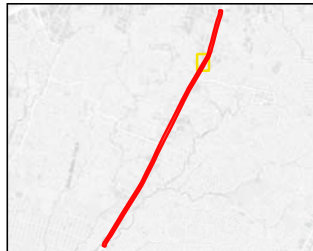
PROJECT NAME: Survey Area 2 - Feature Extraction

SHEET NUMBER: 15/19



Feature Extraction

MAP INDEX

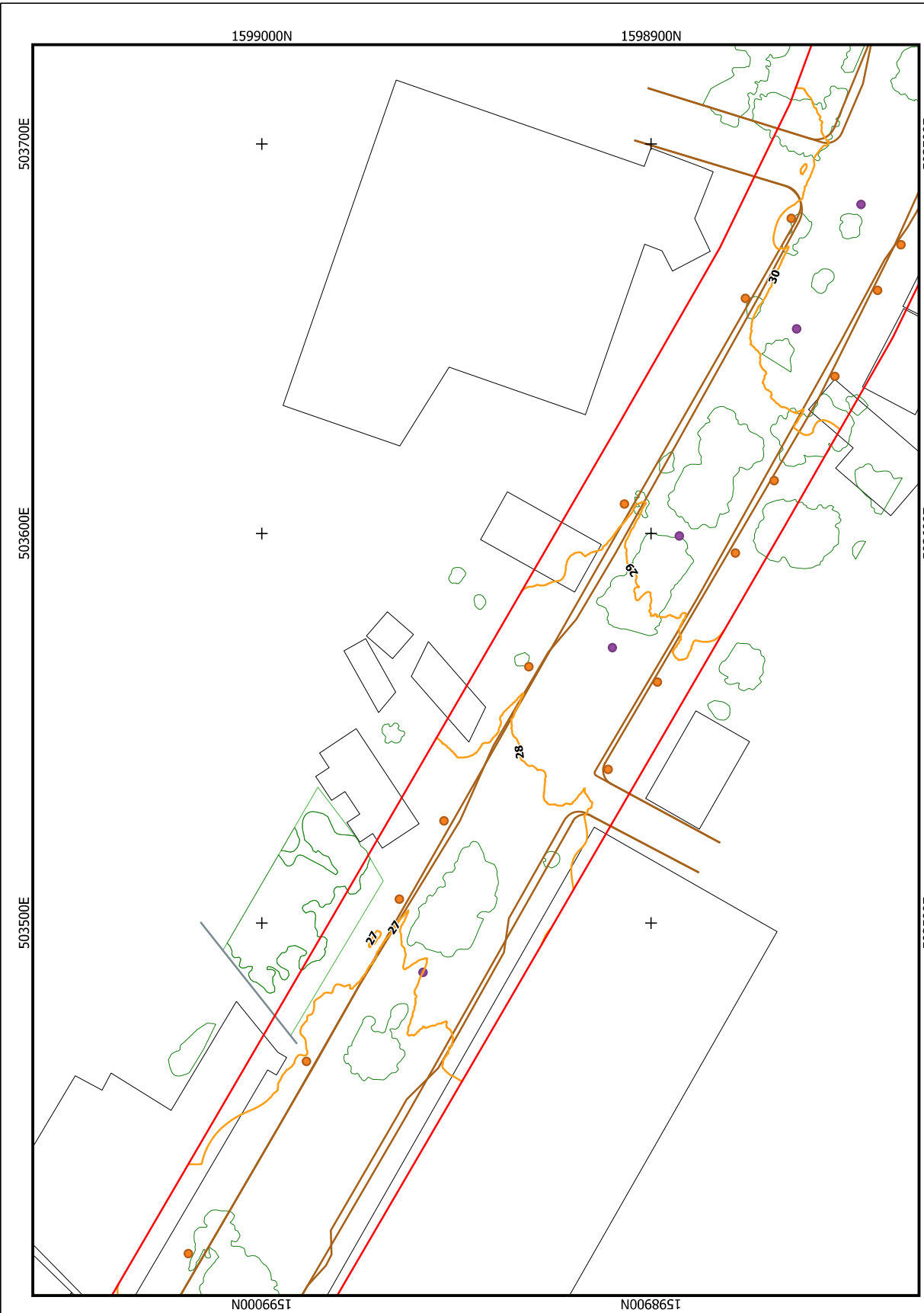
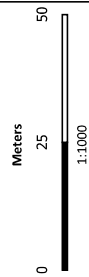


LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retainment
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020



NOTES

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<p>CTI Engineering Co., Ltd.</p>	<p>AERO INTERNATIONAL</p>
CLIENT	SURVEYOR

ENGINEER ON RECORD

REG. NO.	BAR.	DATE
PROJ. NO.	DATE OF ISSU.	
DATE OF REVISION		
SIGNATURE & ADDRESS DATE		

SURVEY TEAM

PROJECT MANAGER	DESIGNER
LIDAR OPERATOR	DATE
IMAGE PROCESSOR	
DATA ENTRY	
ANALYST	

REVISION

NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

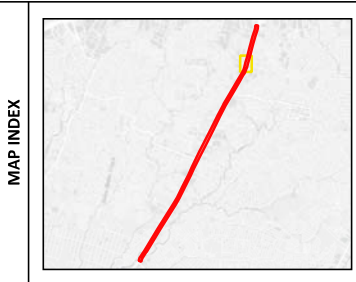
DESIGNER

NAME	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

SHEET NAME	Survey Area 2 - Feature Extraction
SHEET NUMBER	16/19

Feature Extraction



- LEGEND**
- Area of Interest
 - 1m Contour
 - Electric Post
 - Electric Tower
 - Lamp Post
 - Post
 - Telephone Post
 - Tower
 - Road
 - River
 - Wall
 - Retirement
 - Trees
 - Shrubs and Bushes
 - Pond
 - Mangrove
 - Grassland
 - Coastline
 - Bare Land
 - Building

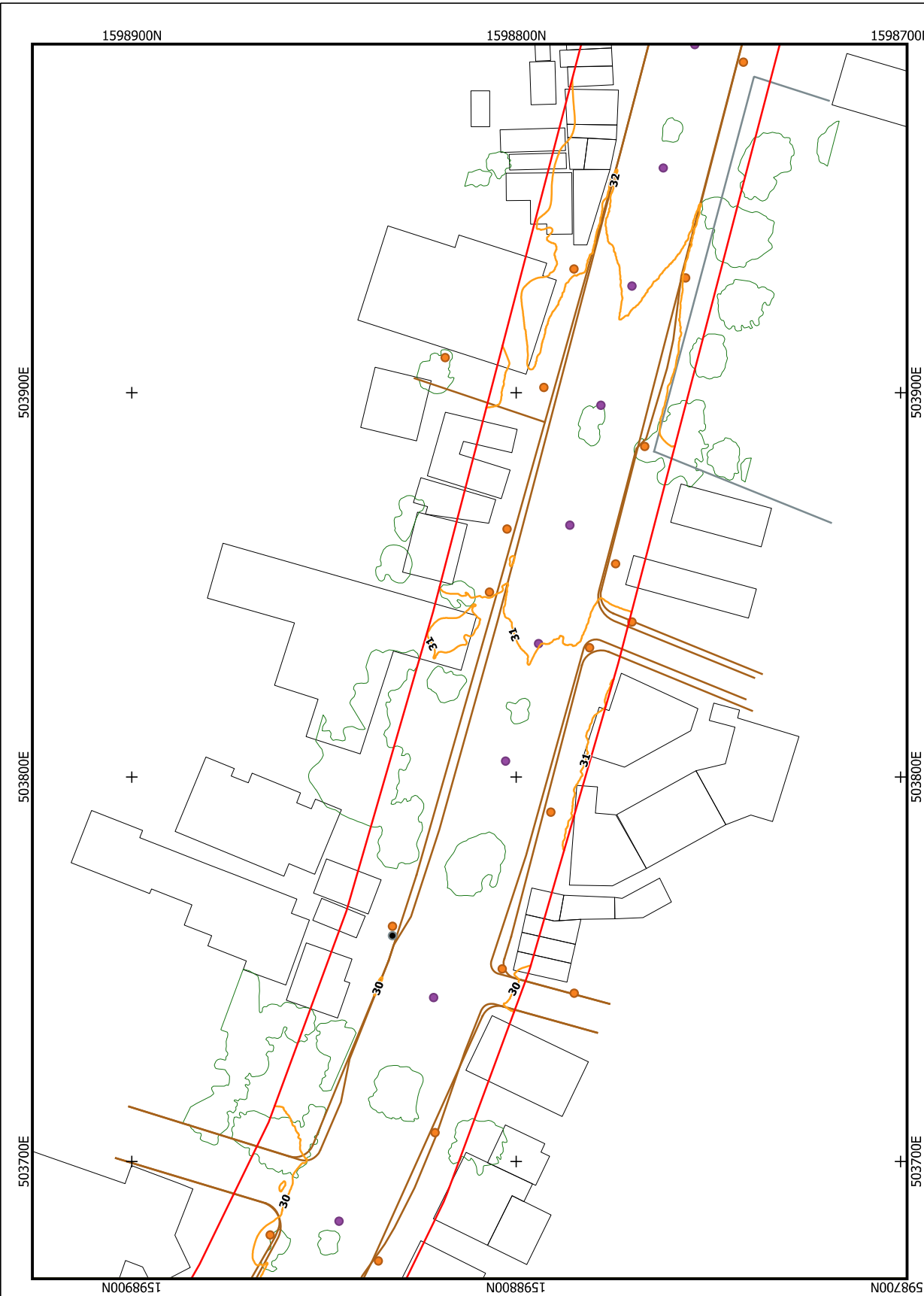
MAP PROJECTION
 PHILIPPINE REFERENCE SYSTEM ZONE III
 PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
 AUGUST 2020

Meters
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CLIENT

SURVEYOR



ENGINEER ON RECORD

NAME	DATE	DESIGNER

SURVEY TEAM

NAME	DATE	DESIGNER

REVISION

NO.	DATE	BY	REVISION

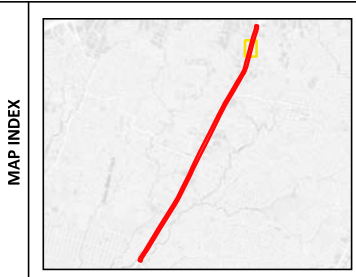
MAP TITLE
 LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

PROJECT NAME
 Survey Area 2 - Feature Extraction

SHEET NUMBER
 17/19

I hereby certify that this is a correct plan of the same made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

Feature Extraction



LEGEND

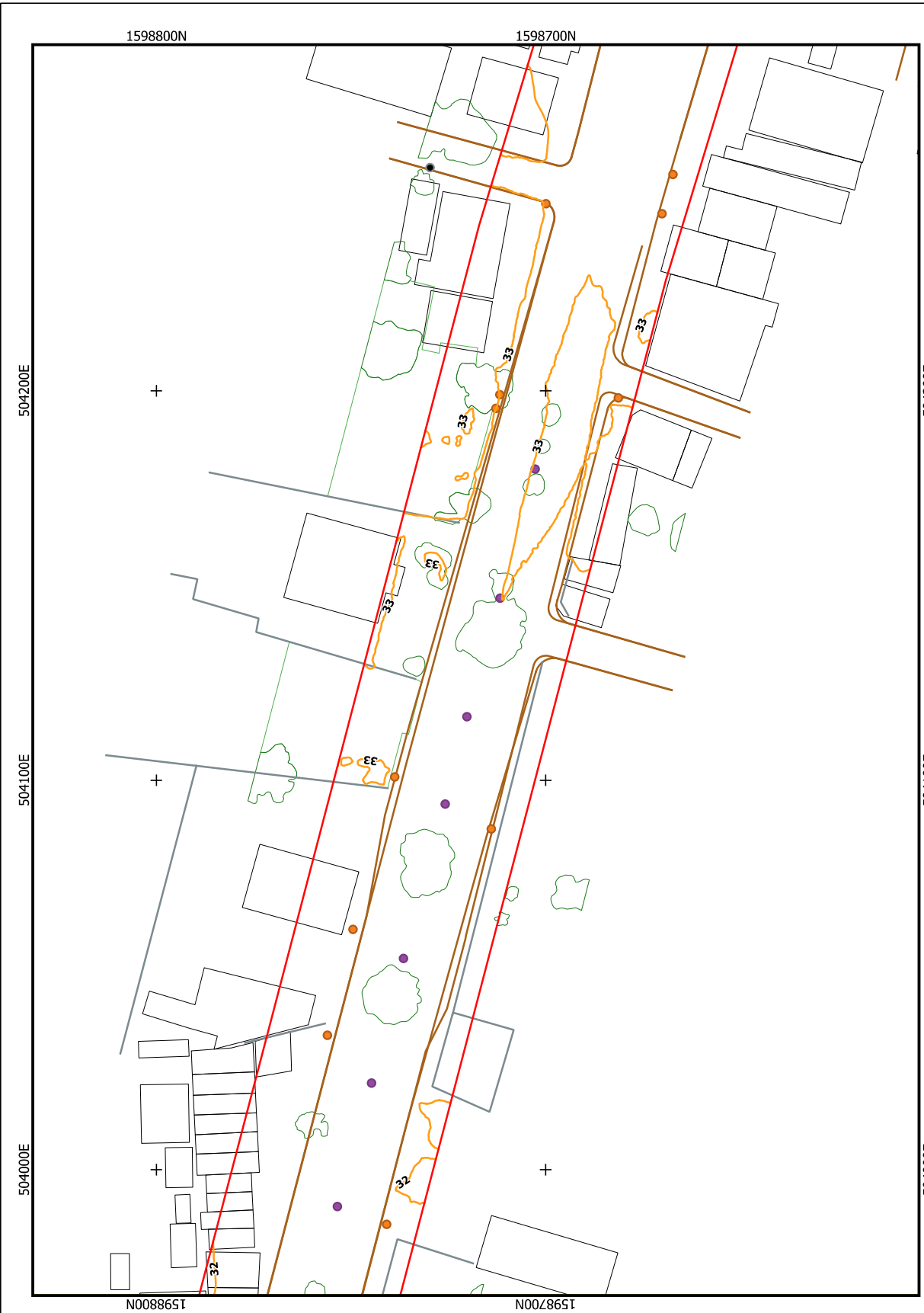
- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
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- Road
- River
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- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

Meters
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CLIENT
CTI Engineering Co., Ltd.

SURVEYOR
AERO INTERNATIONAL

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ENGINEER ON RECORD		SURVEY TEAM				DESIGNER	
NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE
MANUEL M. MORALES		MANUEL M. MORALES		MANUEL M. MORALES		MANUEL M. MORALES	
JOSE LUIS M. MORALES		JOSE LUIS M. MORALES		JOSE LUIS M. MORALES		JOSE LUIS M. MORALES	
...		

REVISION

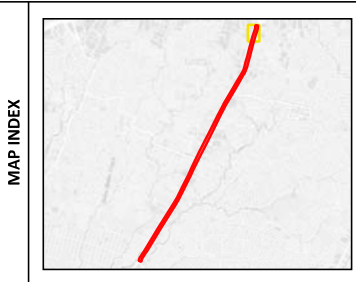
NO.	DATE	DESCRIPTION

PROJECT INFORMATION

PROJECT NAME: Survey Area 2 - Feature Extraction

SHEET NUMBER: 18/19

Feature Extraction



LEGEND

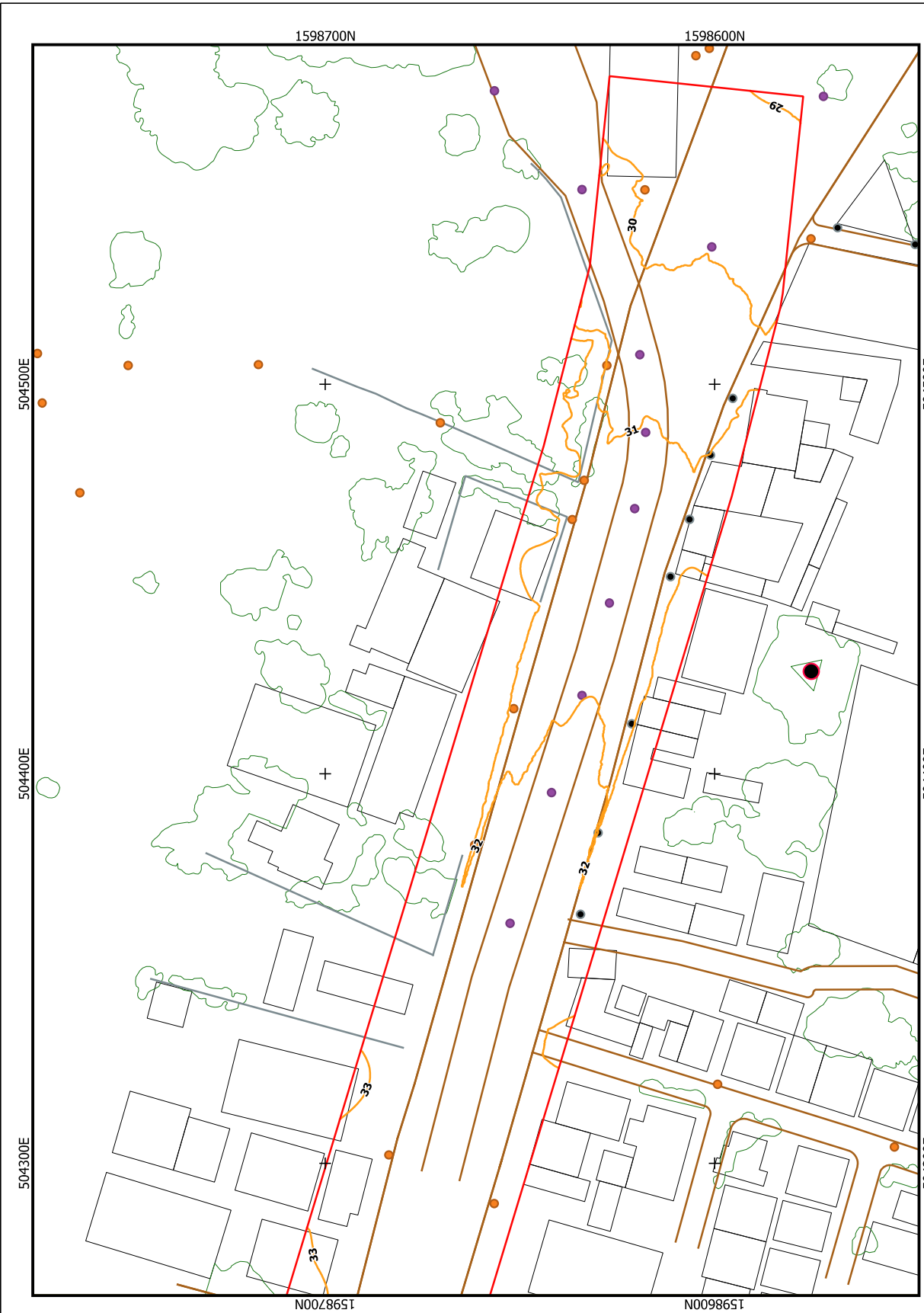
- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
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- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1982

SURVEY DATE
AUGUST 2020

Meters
0 25 50

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CLIENT

SUPPLIER

I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE		REV/ISON		DESIGNER		SHEET NAME	
NO.	NAME	NO.	NAME	NO.	NAME	NO.	DATE	NO.	DATE	NO.	NAME	NO.	NAME
1	...	1	...	1	...	1	...	1	...	1	...	1	...

Survey Area 2 - Feature Extraction

SHEET NUMBER: 19 / 19