

CONSULTANCY SERVICES FOR SURVEY, DESIGN AND EIA WORKS OF WATER SUPPLY AND
SEWERAGE FACILITIES IN 6 ISLANDS, MALDIVES

PACKAGE 5

SEWERAGE SYSTEM OF M. RAIYMANDHOO, MALDIVES

For Ministry of National Planning and Housing Infrastructure, Republic of Maldives

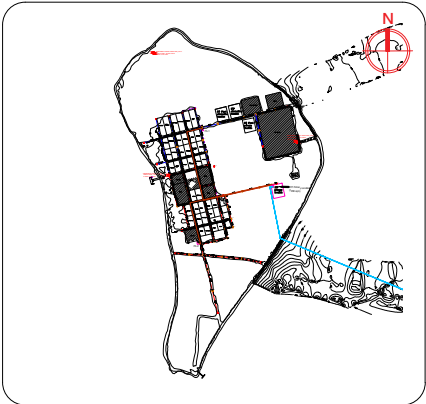
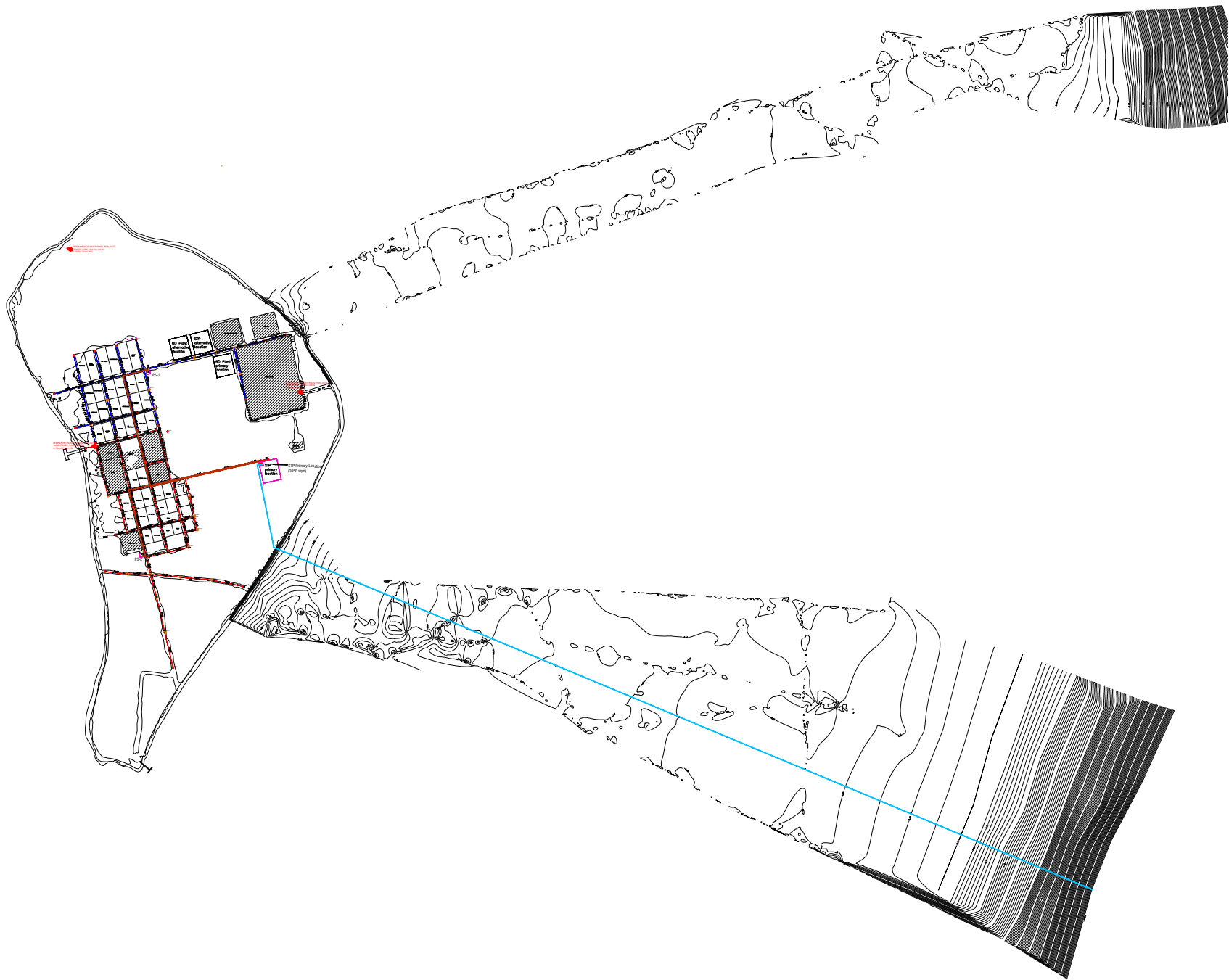


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Legend

- 160mm Ø uPVC PS1 Gravity Sewer Main (SN4, SDR41) - 1182 m
- 160mm Ø uPVC PS2 Gravity Sewer Main (SN4, SDR41) - 1841 m
- 160 mm Ø HDPE Pumping Main (PE100, PN16, SDR11) - 768 m
- 160 mm Ø HDPE Sea Outfall Pipe (PE100, PN16, SDR11) - 156 m on land, 1445 m offshore, 1601 m total
- 600mm Ø PE/PP Maintenance Shaft - 53 nos
- 160mm Ø uPVC Clean Out - 34 nos
- PERMANENT SURVEY MARK PSM_0073 348605.039E, 341941.941N 1.095m From MSL
- PERMANENT SURVEY MARK PSM_0074 34982.936E, 341707.087N 0.879m From MSL
- PERMANENT SURVEY MARK PSM_0075 348645.996E, 341617.835N 0.706m From MSL

NOTES

- ALL LEVELS SHOWN ARE IN METERS.
- ALL LEVELS SHOWN ARE FROM MEAN SEA LEVEL.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- ALL GRAVITY SEWER PIPES SHALL BE UPVC TO BS EN1401-1:2019.
- ALL GRAVITY SEWER MAINS SHALL BE 160MM DIA UPVC OF WALL THICKNESS & STIFFNESS RATED TO SN4 & SDR41.
- ALL GRAVITY HOUSE LATERALS SHALL BE 110MM DIA UPVC OF WALL THICKNESS & STIFFNESS RATED TO SN4 & SDR41.
- ALL GRAVITY SEWER MAINS SHALL HAVE MINIMUM 0.4% SLOPE.
- ALL GRAVITY SEWER PIPES SHALL BE JOINTED USING RUBBER RING PUSH FIT JOINTING METHOD & RUBBER RINGS COMPLY WITH BS 2494 (TYP2).
- CONNECTION FROM THE HOUSEHOLD TO THE INSPECTION CHAMBER IS NOT INCLUDED. PROVISION SHALL BE GIVEN IN IC FOR MULTIPLE CONNECTIONS.
- ALL SEWER PIPES SHALL BE BURIED UNDER EARTH COVER OF MINIMUM 0.6 METERS.
- CATCHMENT OVER FLOW LINKS ARE TO BE CONNECTED AS INDICATED BELOW:
 - a) CO1-08 and MH2-10

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Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives – Package 5
Sewerage System in M. Raiymandhoo

Client:
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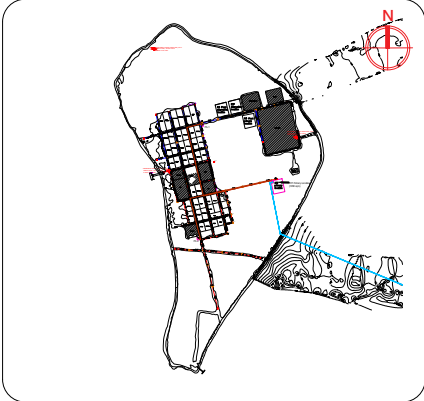
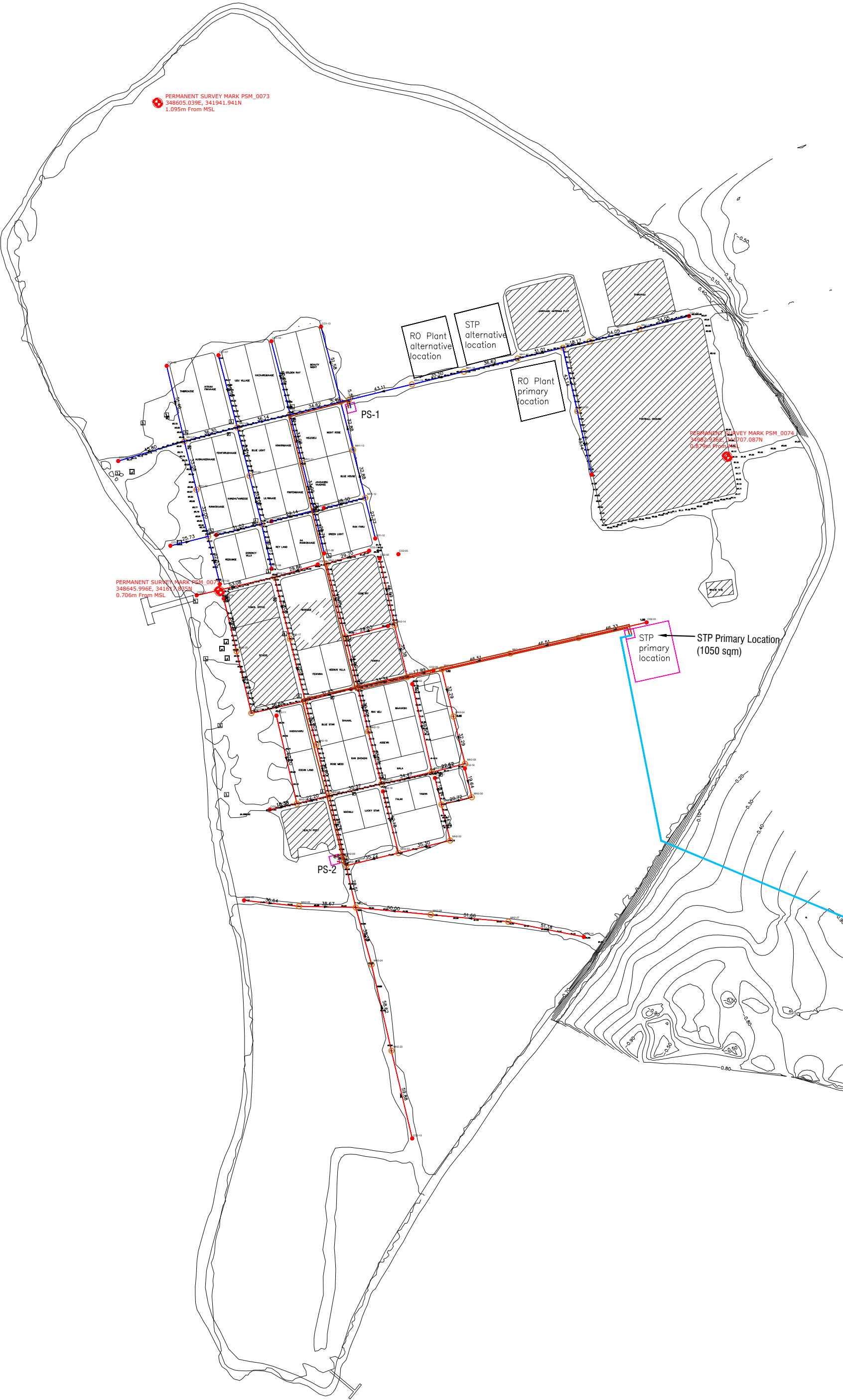
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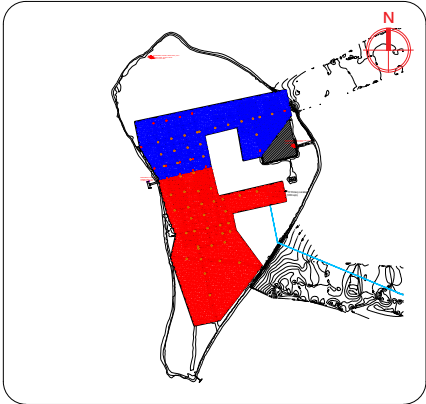
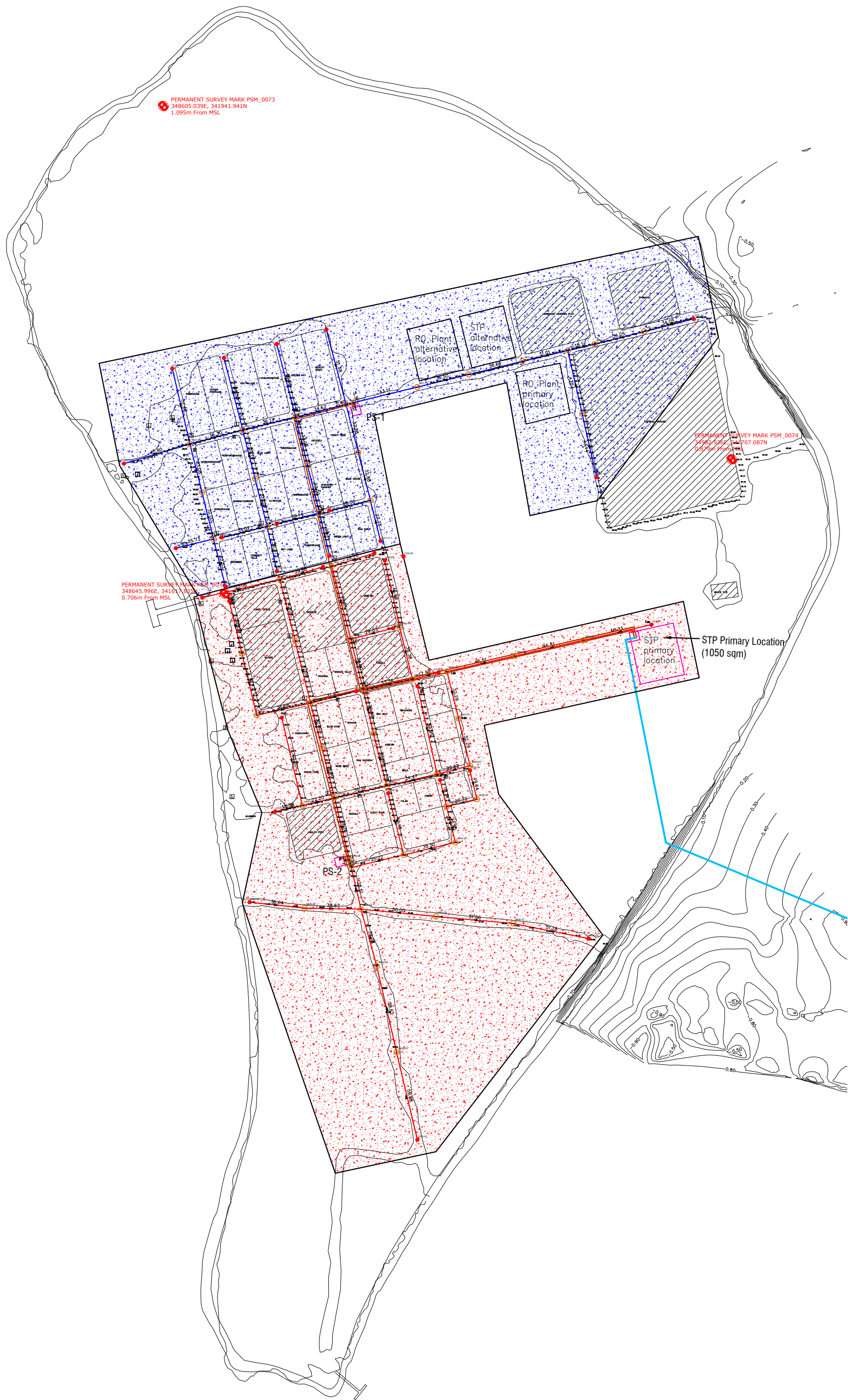
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Legend

- PS-1 Catchment Area
- PS-2 Catchment Area

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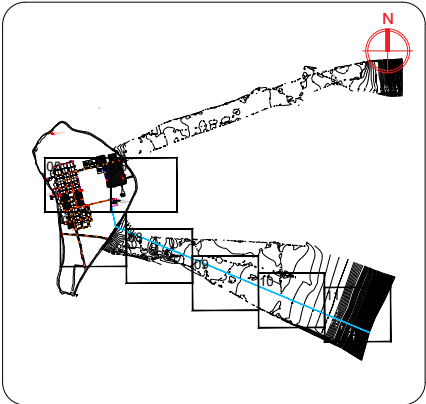
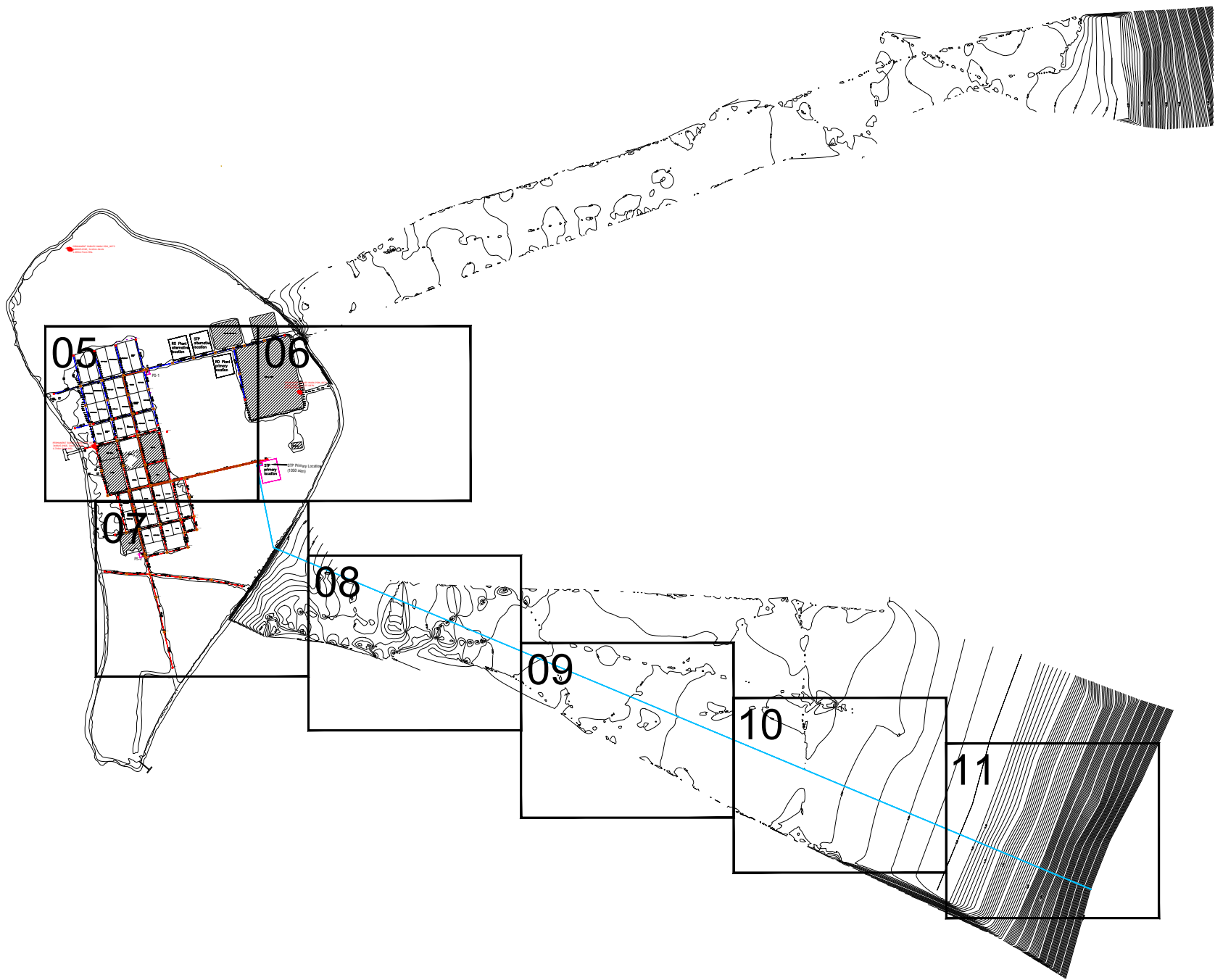
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0 m 50 m 150 m 350 m

M. RAIYMANDHOO SEWERAGE SYSTEM - SEWERAGE NETWORK CATCHMENT AREAS
1:2500



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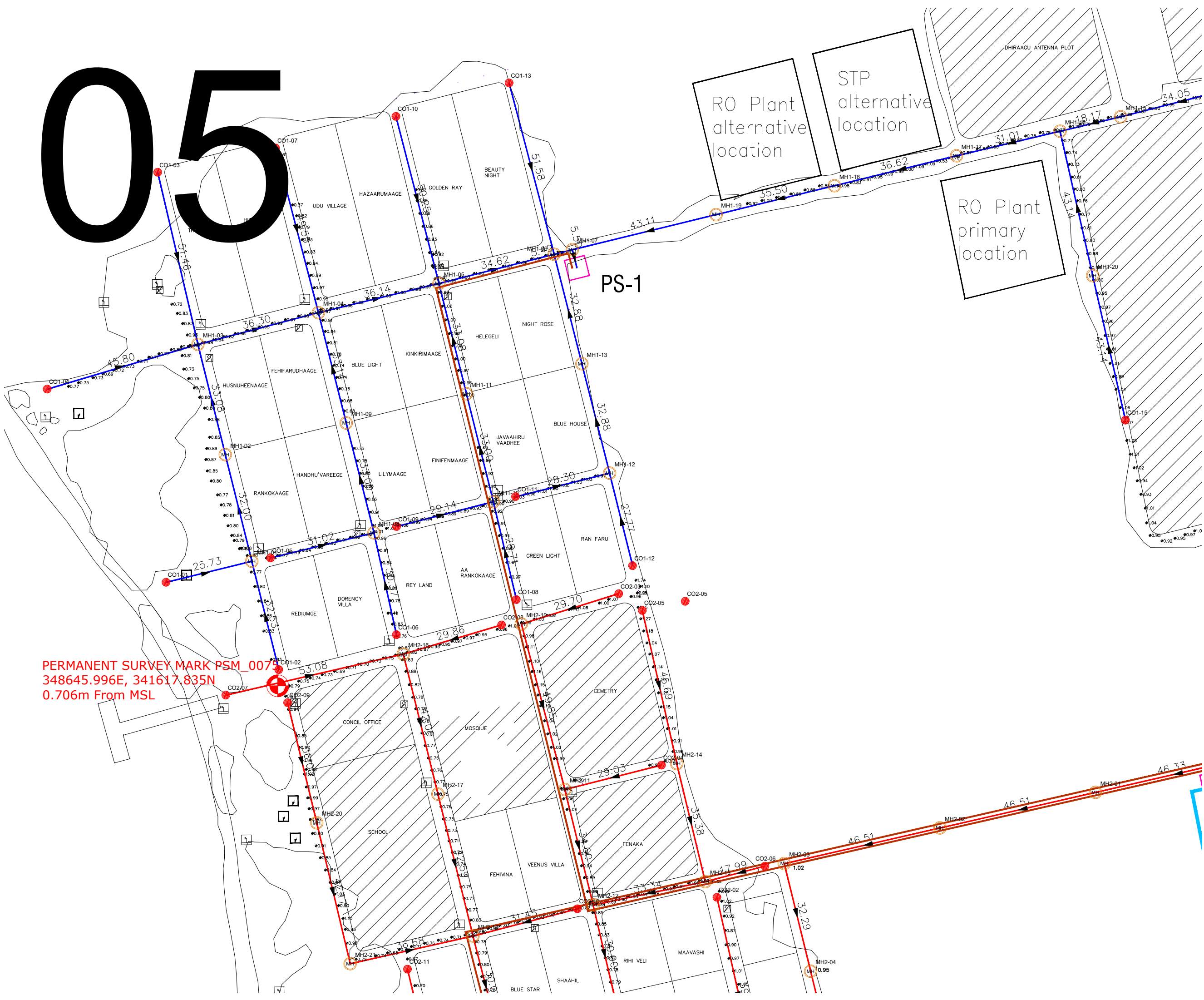


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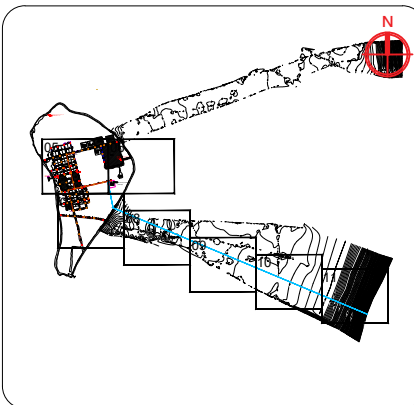
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05



PERMANENT SURVEY MARK PSM_007
348645.996E, 341617.835N
0.706m From MSL



- Legend**
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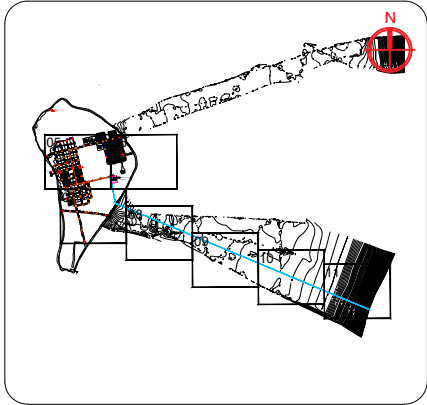
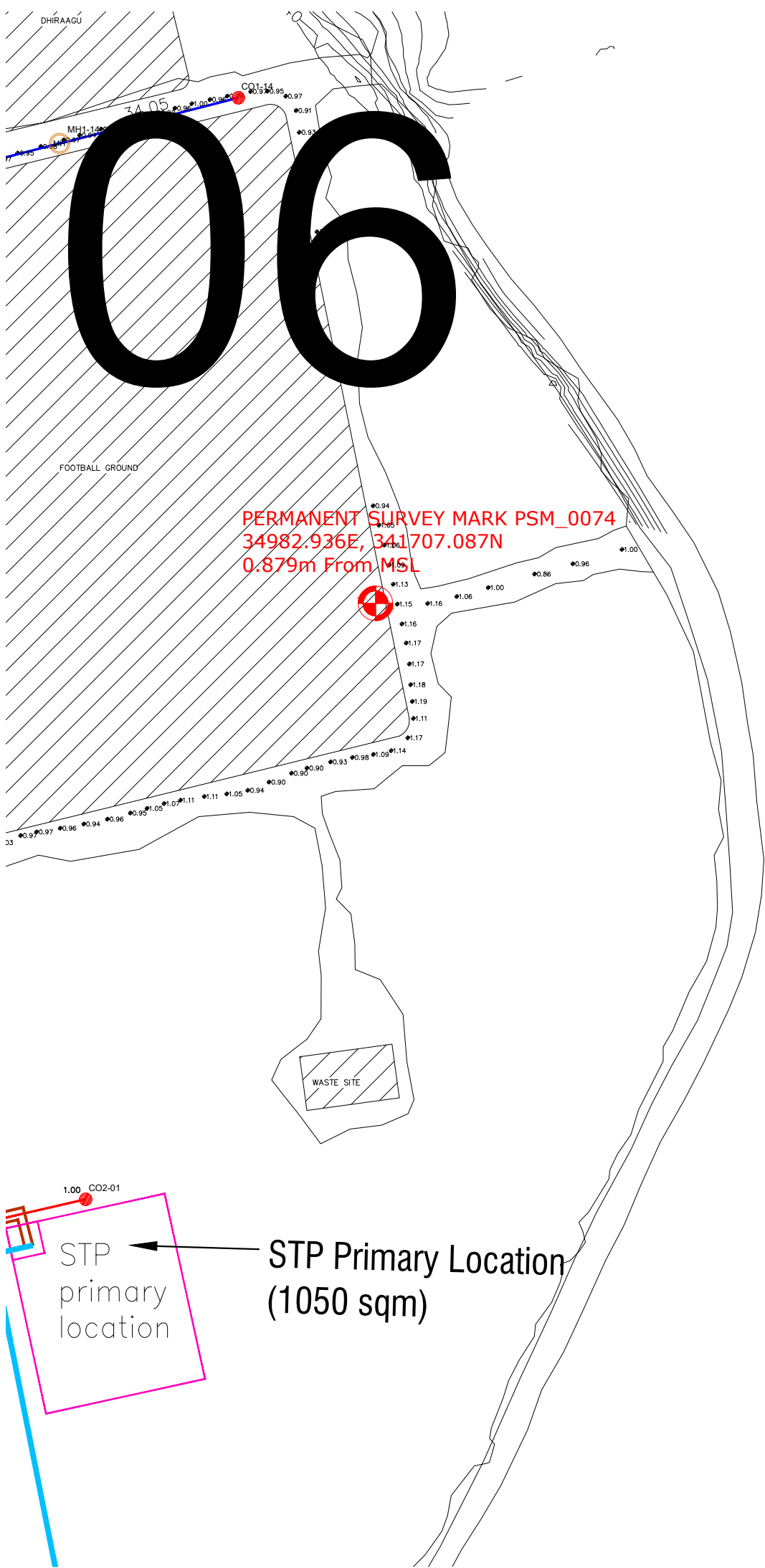
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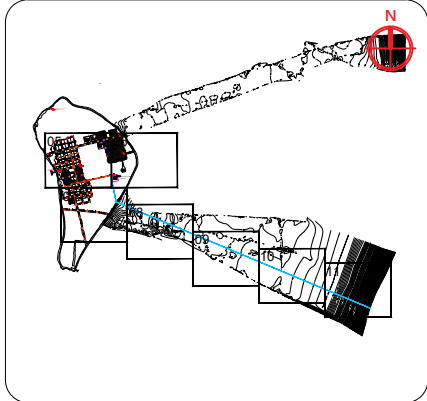
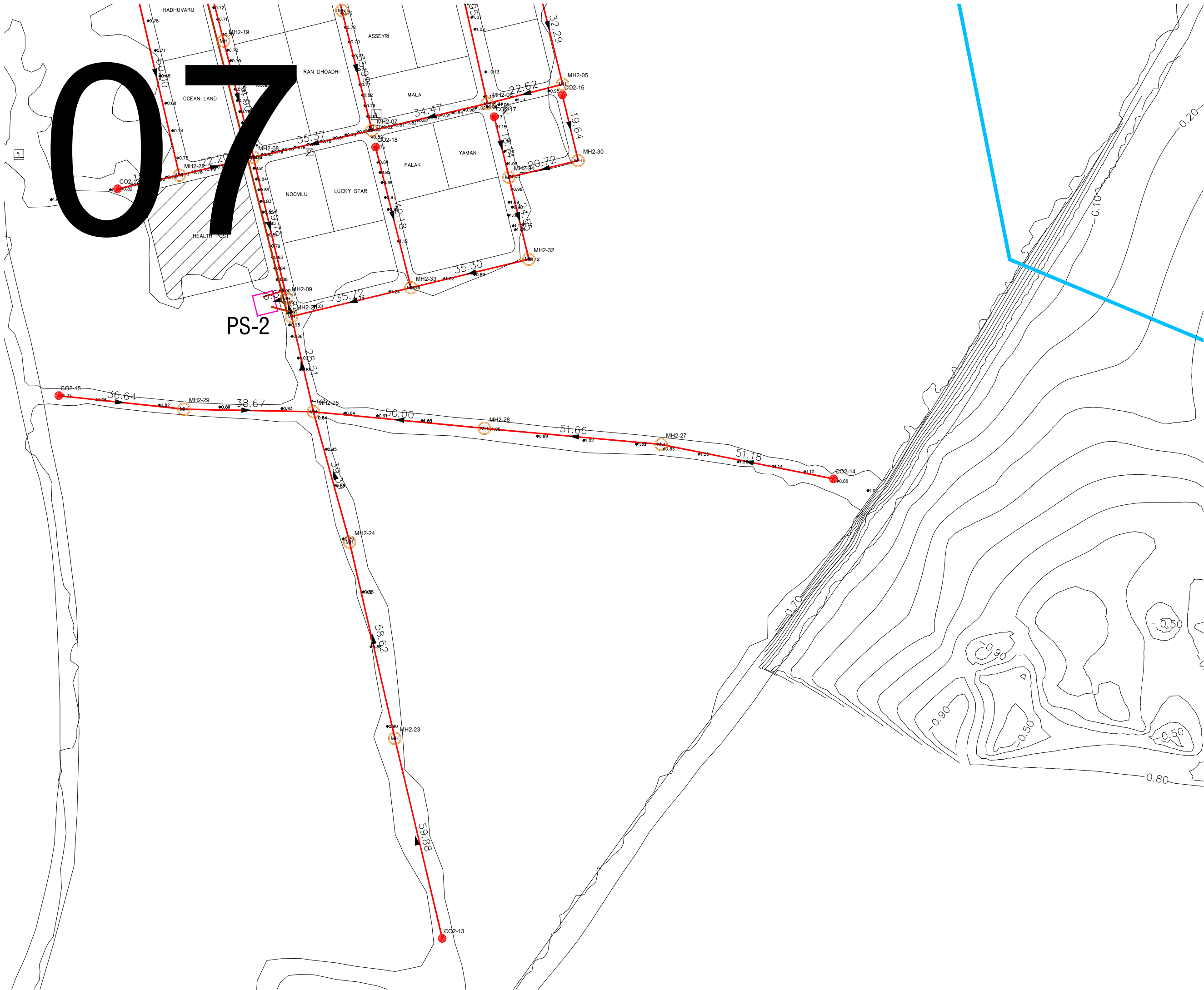
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Legend

- 160mm Ø uPVC PS1 Gravity Sewer Main (SN4, SDR41)
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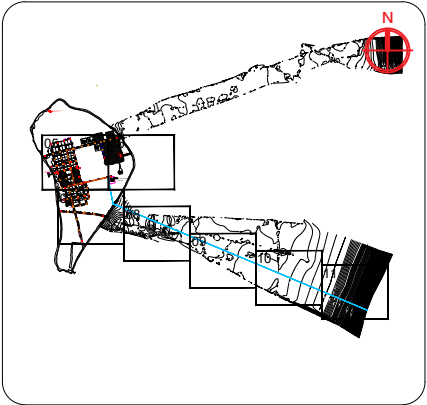
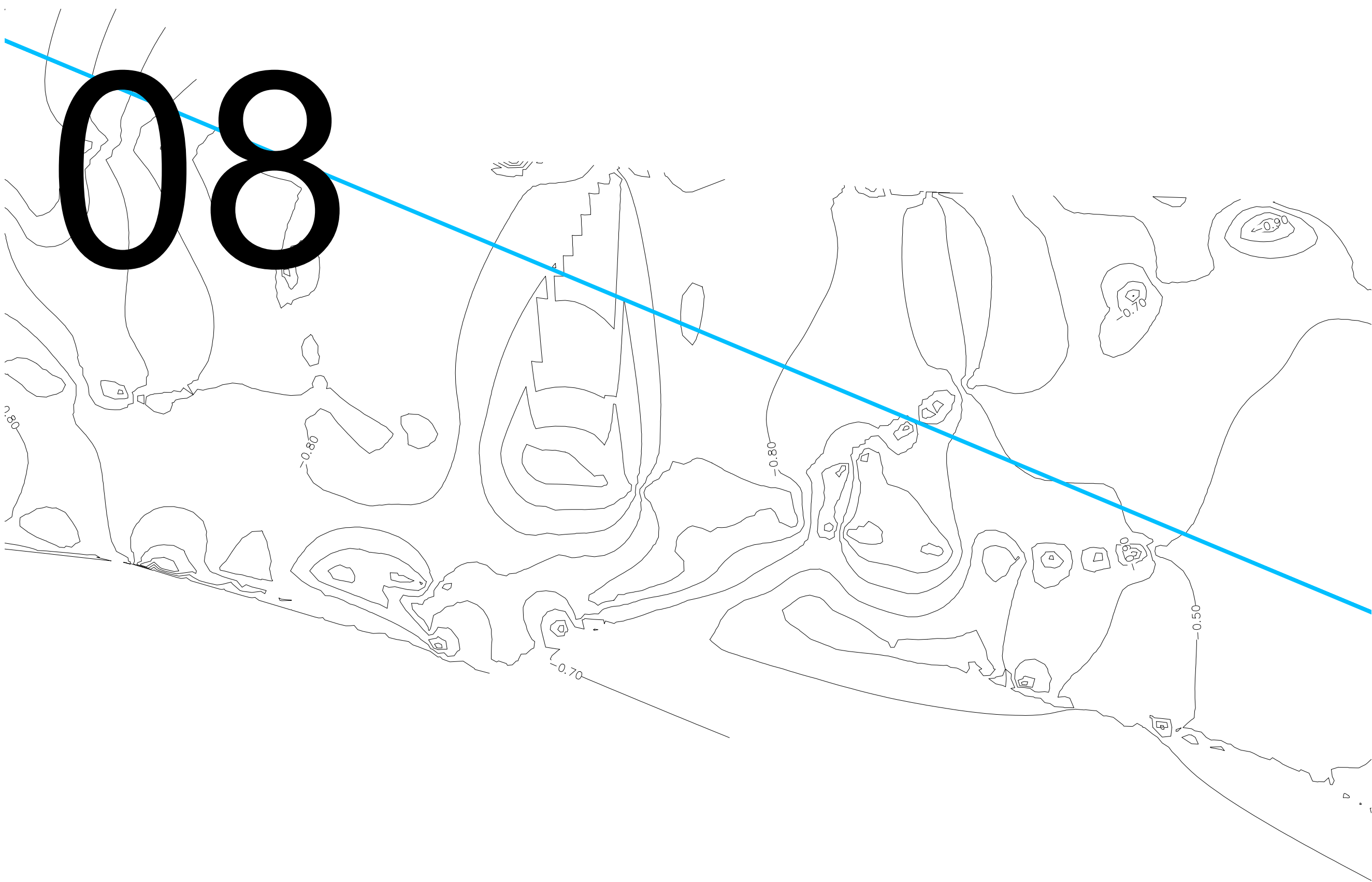
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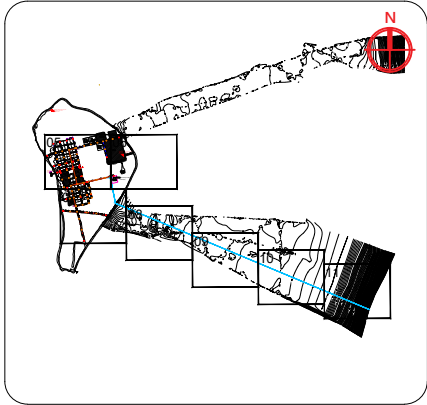
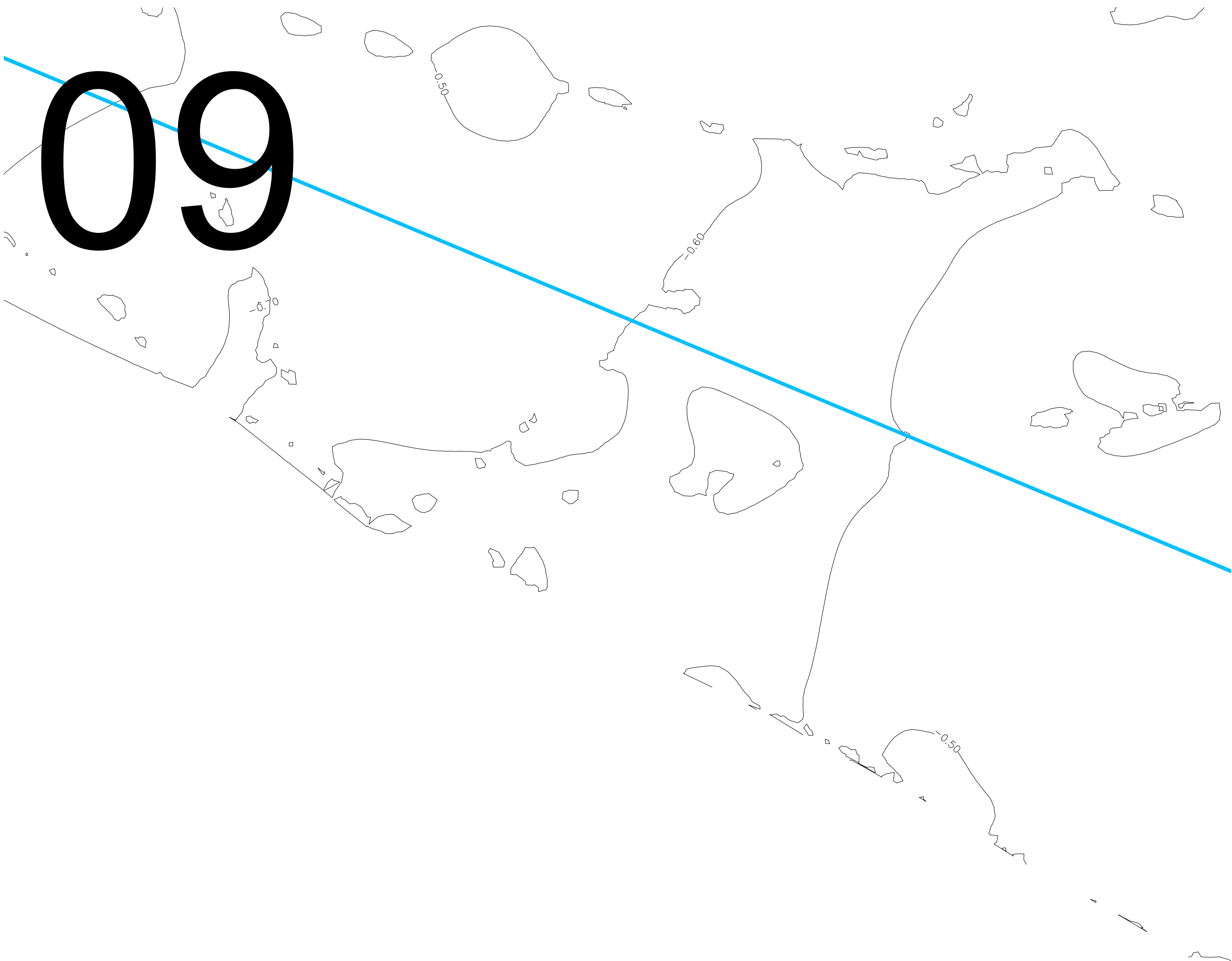
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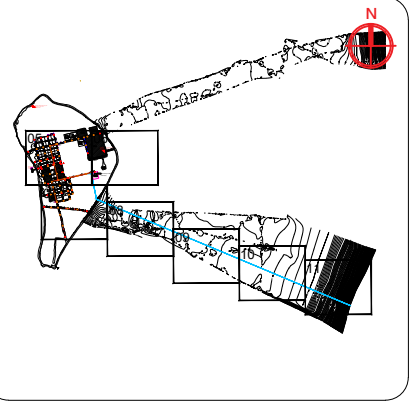
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The map displays the North Atlantic region, including the eastern coast of North America and the western coast of Europe. A thick blue line represents the 10-day SLP tendency, with values ranging from 0.30 to 0.60. The line starts near 0.60 in the upper left and decreases to 0.30 in the lower right. The number '10' is prominently displayed in the upper left corner, indicating the 10-day forecast period. The map also shows various contour lines and geographical features like the Gulf Stream and the North Atlantic Current.



Legend



- | | |
|---|---|
|  | 160mm ø uPVC PS1 Gravity Sewer Main (SN4, SDR41) |
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|  | 160mm ø uPVC Clean Out |
| | 160 mm ø HDPE Pumping Main (PE100, PN16, SDR11) |
|  | 160 mm ø HDPE See Outfall Pipe (PE100, PN16, SDR11) |

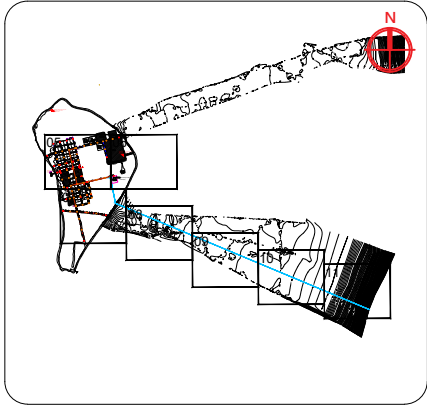
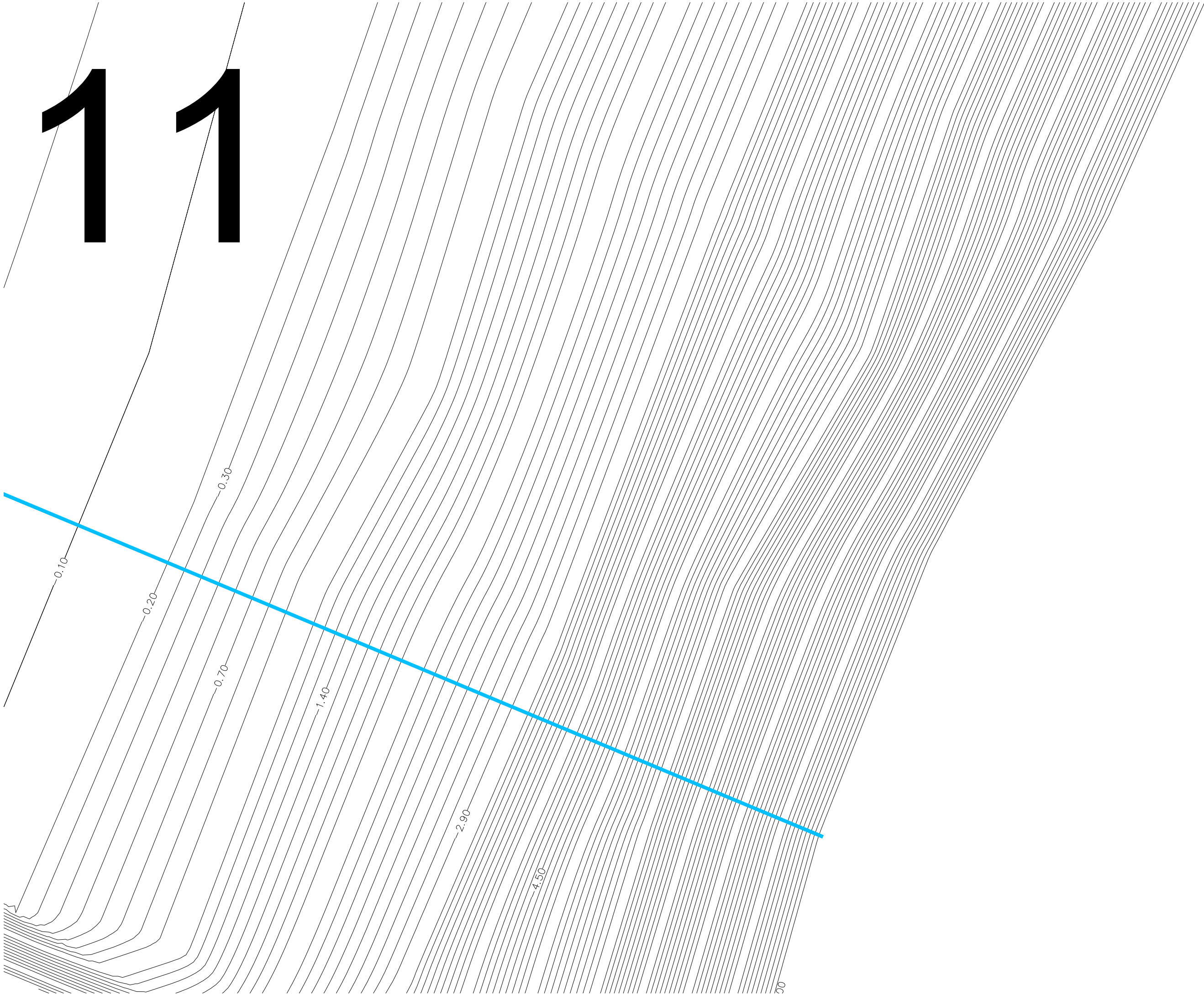
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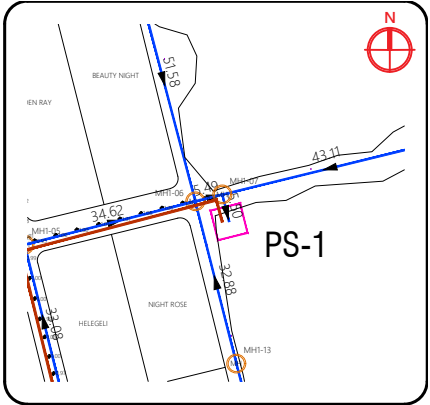
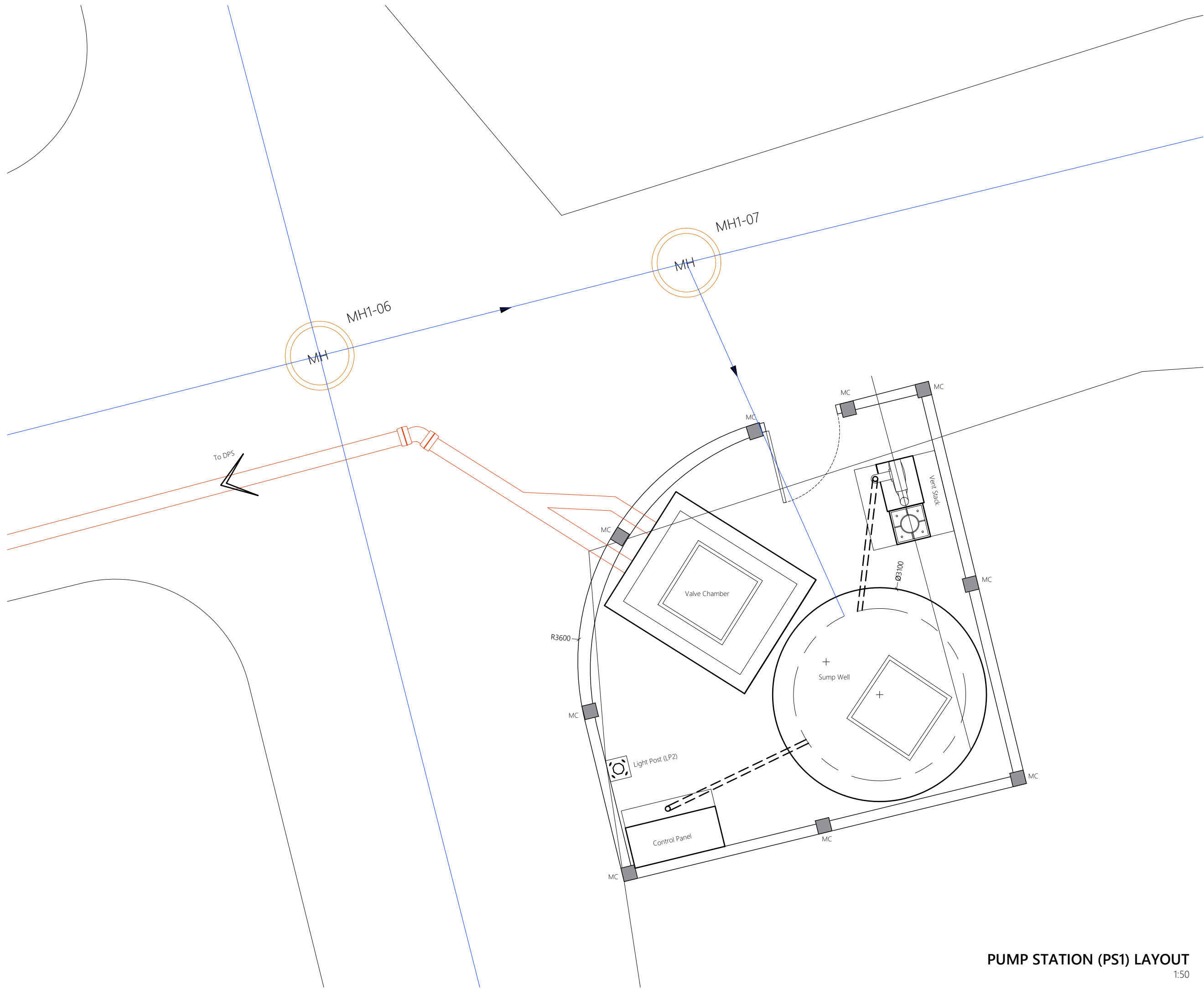
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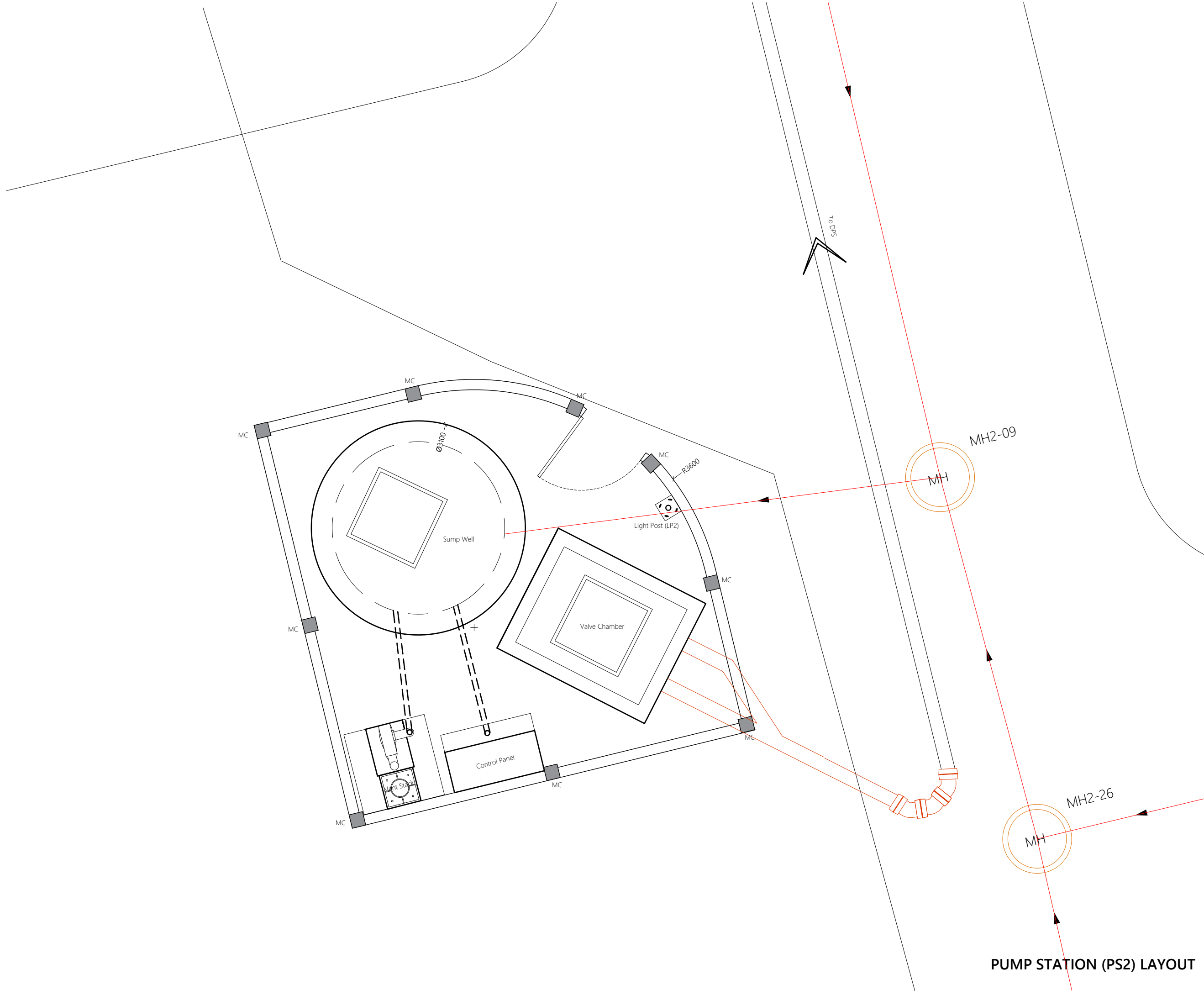
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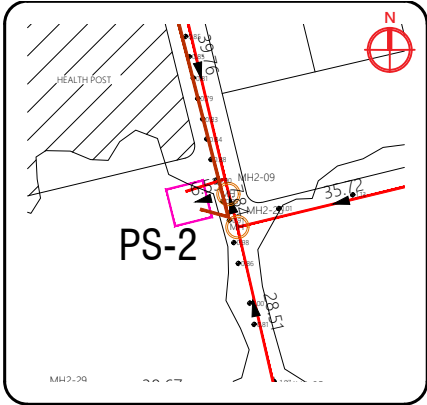
FEEDBACK INFRA
Maldives Infrastructure Support

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Designed: F.I.A.	Approved: I.W.
Date: Sep 2020	SCALE (A3): 1:50
Project No: EP-WS/2019/05	Page: W-(1)

PUMP STATION (PS1) LAYOUT
1:50



PUMP STATION (PS2) LAYOUT



Legend

— 160mm Ø uPVC PS2 Gravity Sewer Main (SN4, SDR41)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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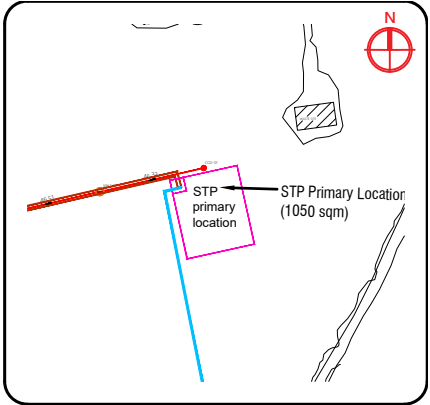
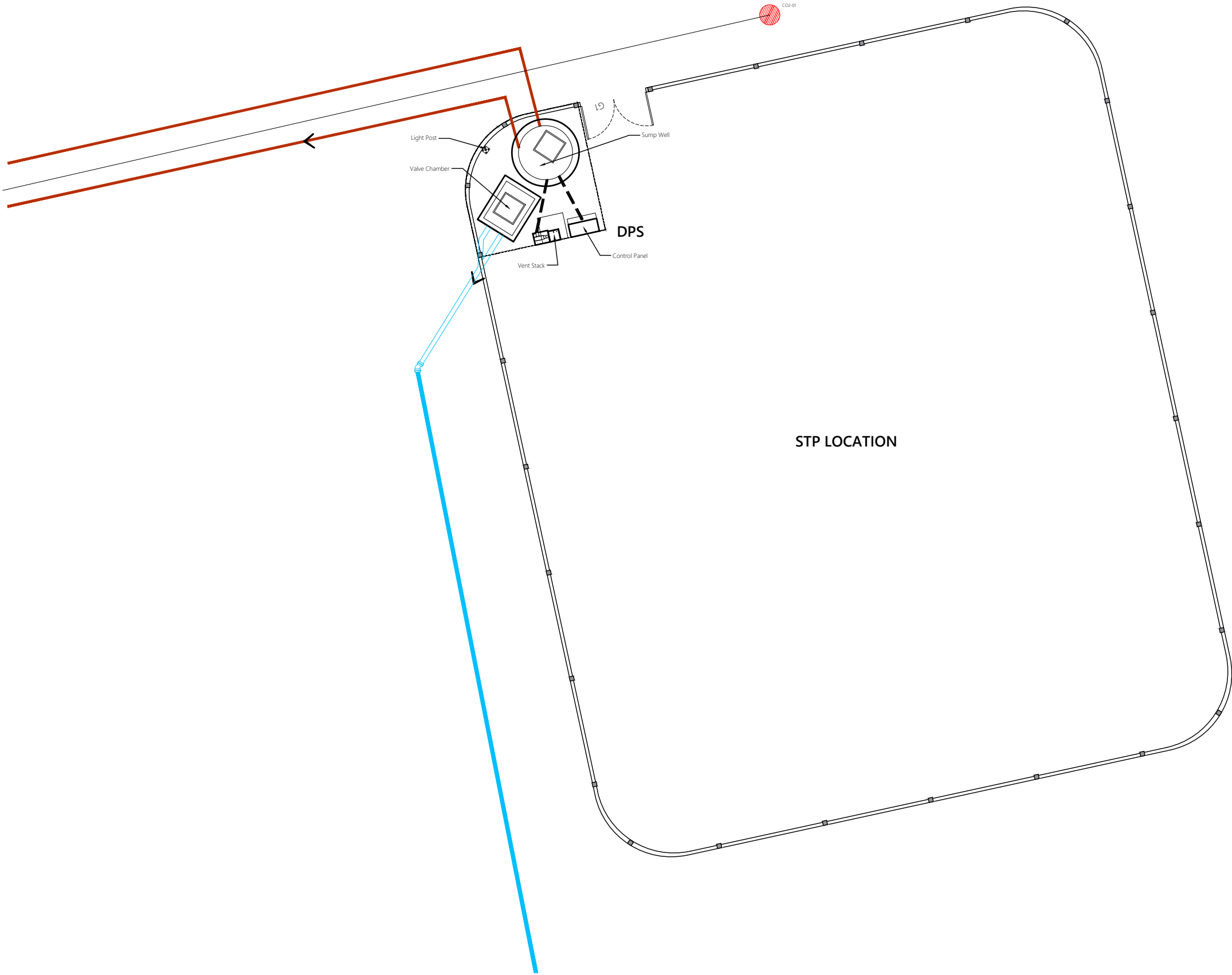
Drawn: F.I.A. Checked: M.S.S.

Designed: F.I.A. Approved: I.W.

Date: Sep 2020 SCALE (A3): 1:50

Project No: EP-WS/2019/05

Rev: Page: W-(2)



Legend

- 160mm Ø uPVC PS2 Gravity Sewer Main (SN4, SDR41)
- 110 mm Ø HDPE Pumping Main (PE100, PN16, SDR11)
- 160 mm Ø HDPE Sea Outfall Pipe (PE100, PN16, SDR11)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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FEEDBACK INFRA
Working with you to make it happen

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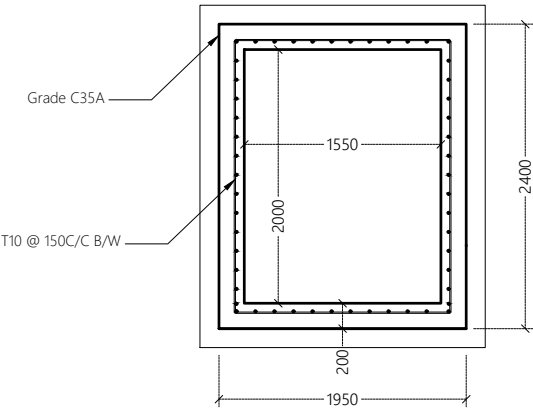
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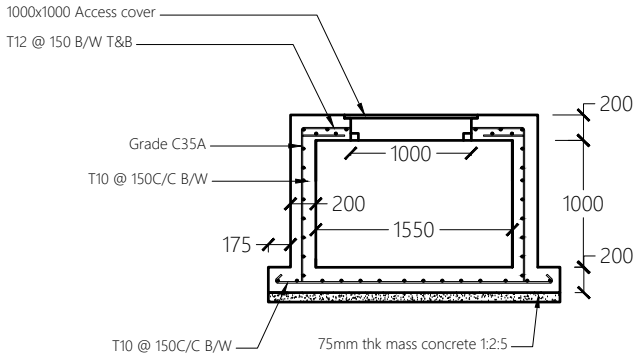
Project No: EP-WS/2019/05

Rev: Page: **W-(3)**

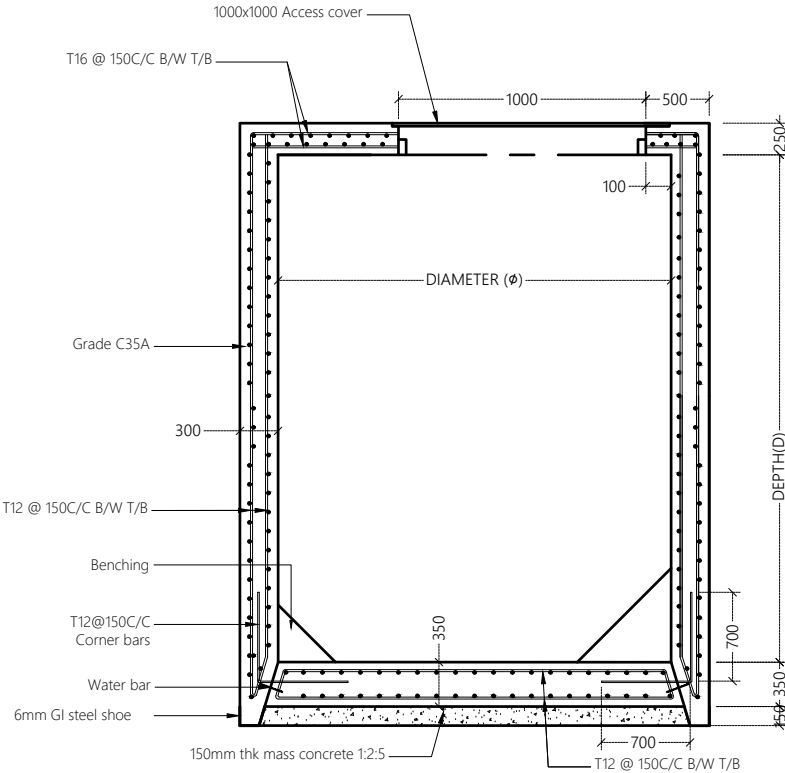
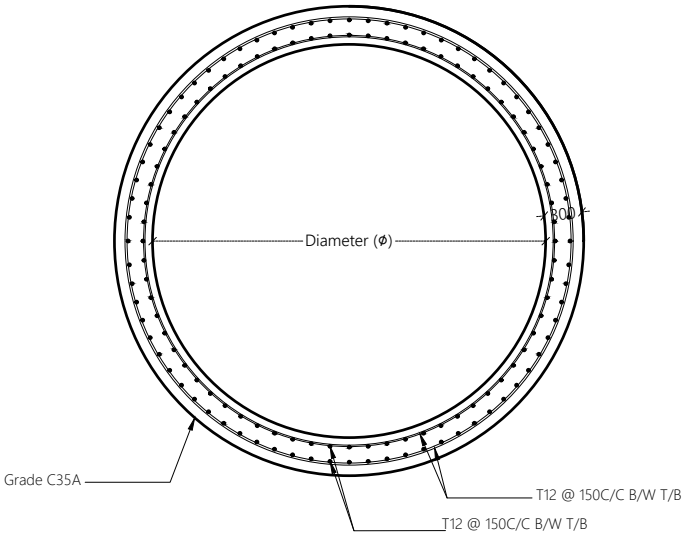
PLAN VIEW



SECTION



VALVE CHAMBER DETAIL



PUMP STATION DETAIL

Pump Station	Diameter (ϕ)	Depth (D)	Inlet Depth
PS1	2.5m	2.70m	1.445m
PS2	2.5m	2.90m	2.091m
DPS	2.5m	2.70m	0.8m

PUMP STATION STRUCTURAL DETAILS

NTS

Legend

Notes:

- Pumps, pipe work, fittings and control panel shall be installed in accordance with manufacturers recommendations.
- Orientation of valve chamber pipework to suit location.
- All structural concrete shall be of grade C35A.
- All castings shall be done using sulphate resistant portland cement to BS 4027:1996.
- All structural reinforcement shall be epoxy coating of non-pre-stressed reinforcement to ASTM-A775/A775M.
- A cover of 75mm should be given for all reinforcements.
- Internal concrete surfaces to be coated with 5mm thickness of epoxy bonded glass fibre and finished with gel coat or 500 microns epoxy paint coating.
- External concrete surfaces to be painted with 3 coats of bitumen/rubber emulsion and protected by 500 micron polyethene.

List of main instruments of pumping station:

1. Sewage pumps (1 duty & 1 standby)
2. Power cable
3. Auto-coupling with 400 SS guide rail
4. Stainless steel (316) suspension chain
5. Cable with float control and weight
6. Discharge pipe
7. Puddle flange
8. Bitumen emulsion and 500 micron polythene sheet protection to external concrete surfaces
9. Construction joint / water bars
10. Manhole cover double seal ductile heavy duty cast iron / SS 316 cover
11. Vent pipe with vent cowl

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

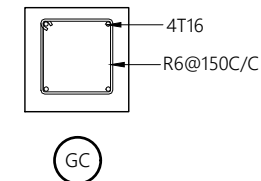
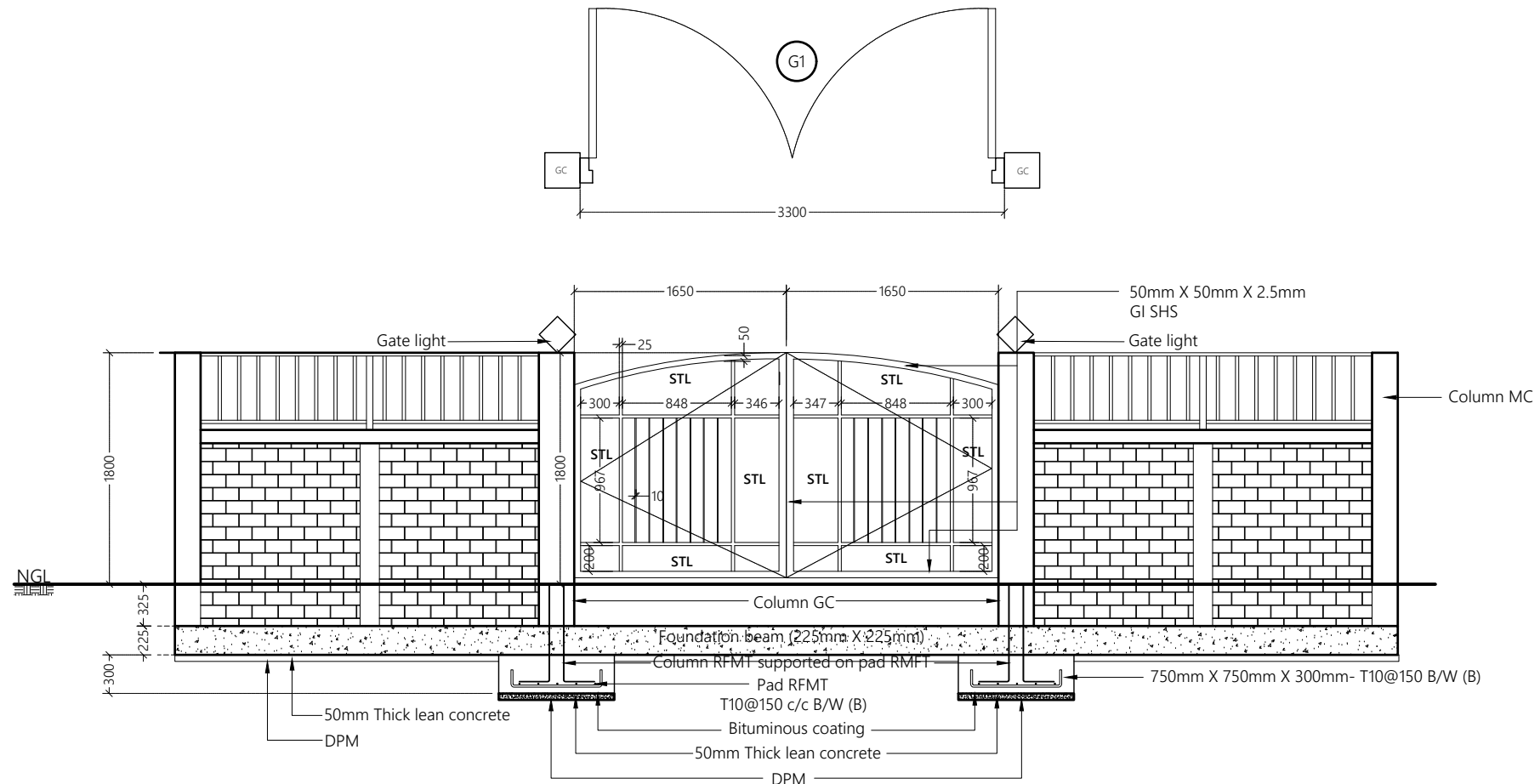
Sub Title:
Sewerage System in M. Raiymandhoo

Client:
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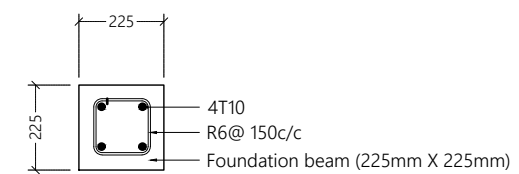
INFRA
Maldives Infrastructure Development

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Designed: F.I.A.	Approved: I.W.
Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/05	Page: W-(6)

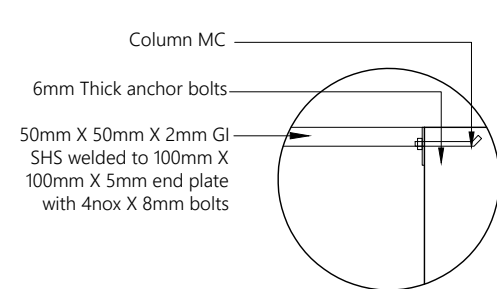
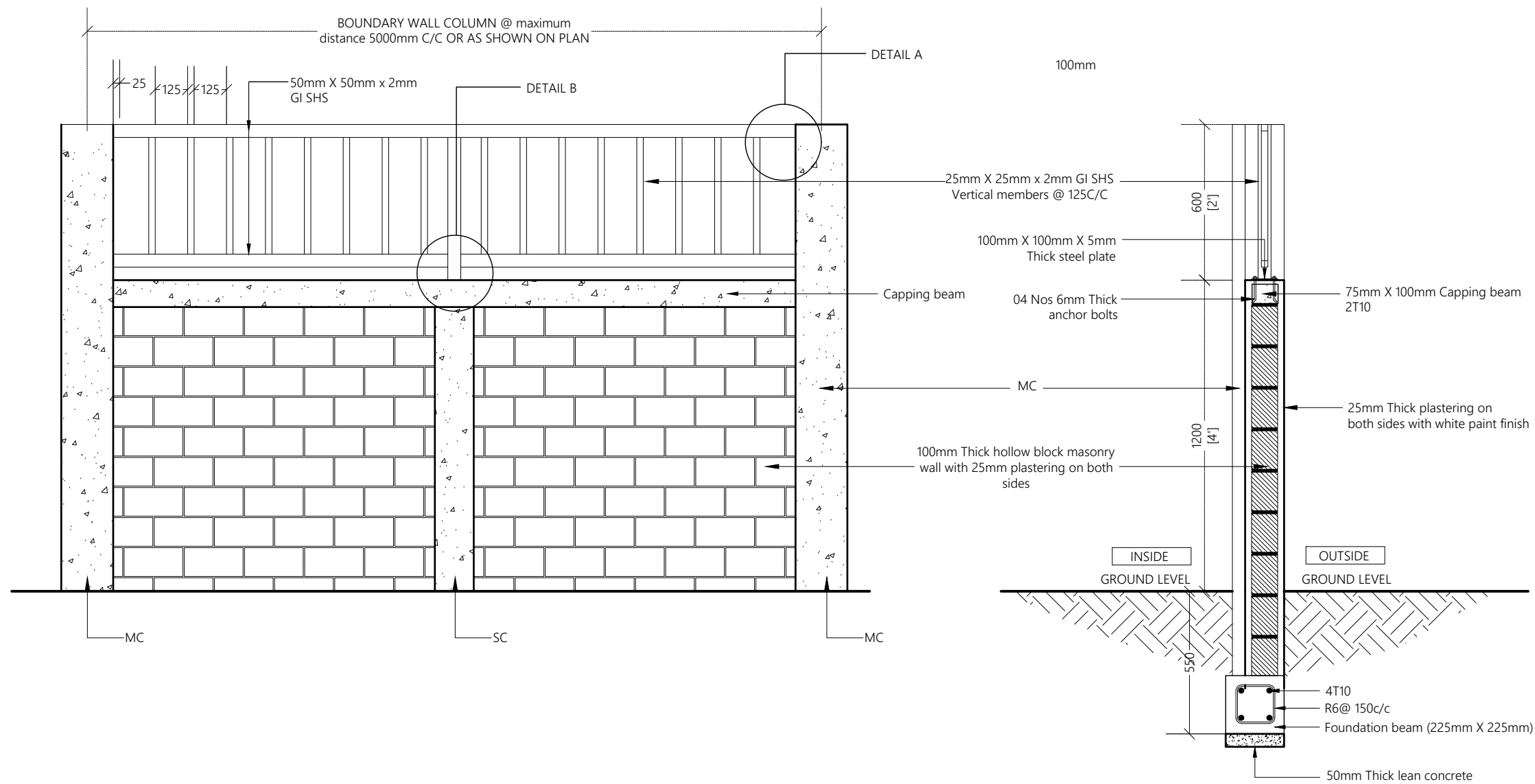


The diagram illustrates a cross-section of a gate structure. Key components and dimensions include:

- Dimensions:**
 - Overall height: 1800
 - Foundation beam depth: 225
 - Gate height: 1475
 - Gate width: 225
 - Gate thickness: 25
 - Gate light height: 150
 - Column height: 325
- Materials and Components:**
 - Foundation beam: 225mm X 225mm
 - 50mm Thick lean concrete
 - DPM (Dimpled Plastic Membrane)
 - Column MC (Main Column)
 - STL (Structural Thermal Insulation)
 - 50mm X 50mm X 2.5mm GI SHS (Galvanized Iron Structural Hollow Section)
 - Gate light
 - MC (Main Column)
- Other Labels:**
 - NGL (Natural Ground Level)

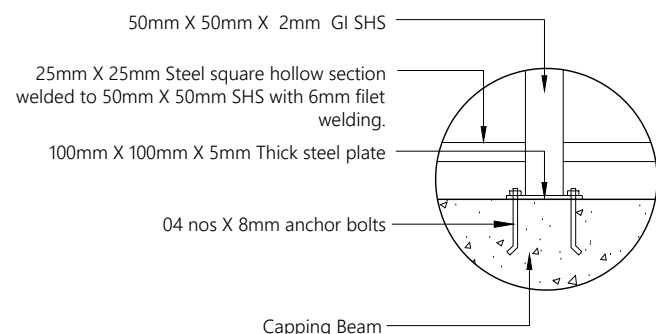


W-(7)



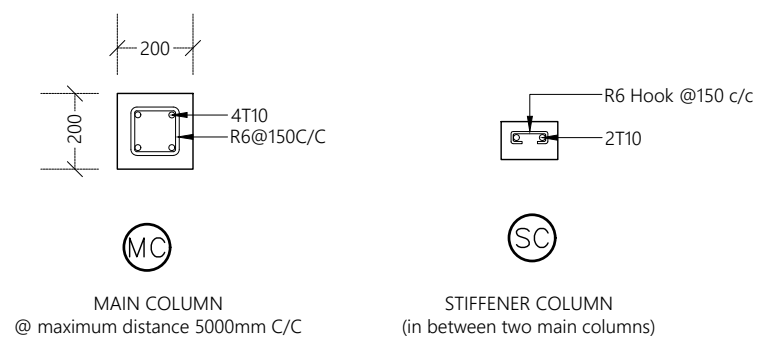
DETAIL A

1:10



DETAIL B

1:10



BOUNDARY WALL AND FENCING DETAILS

1:20



Legend

Notes:

- FRAME MATERIAL : Steel gate frame 2.5mm thick GI sections SHS
- All steel members and GI SHS to be applied with 2 coats of anti-corrosive paint with epoxy finishing paint
- Allowance shall be made to fix pad lock in Gates

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Sub Title:
Sewerage System in M. Raiymandhoo

Client:
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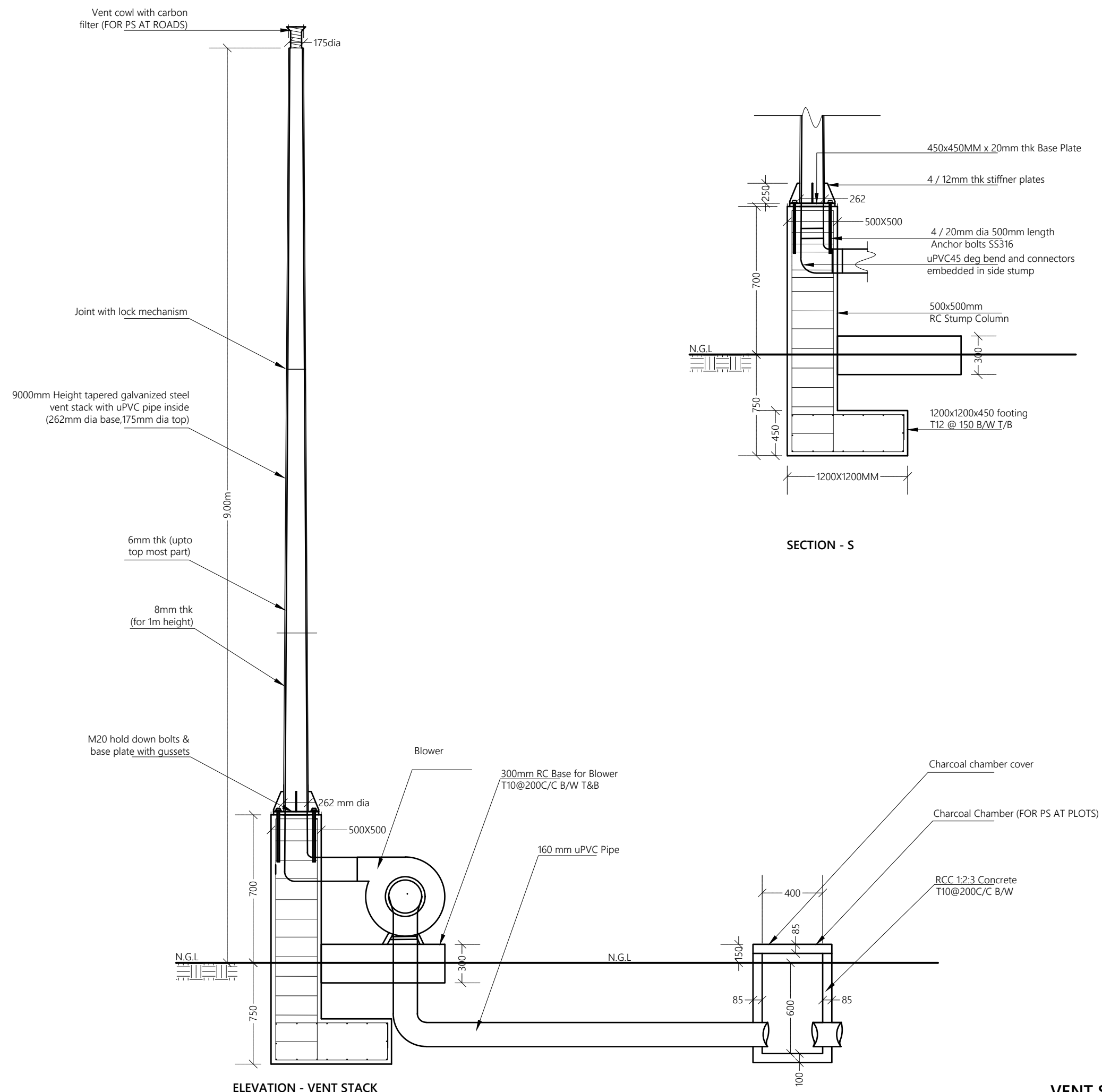
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Date: Sep 2020 SCALE (A3): 1:20

Project No: EP-WS/2019/05

Rev: Page:

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NTS

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Sub Title:
Sewerage System in M. Raiymandhoo

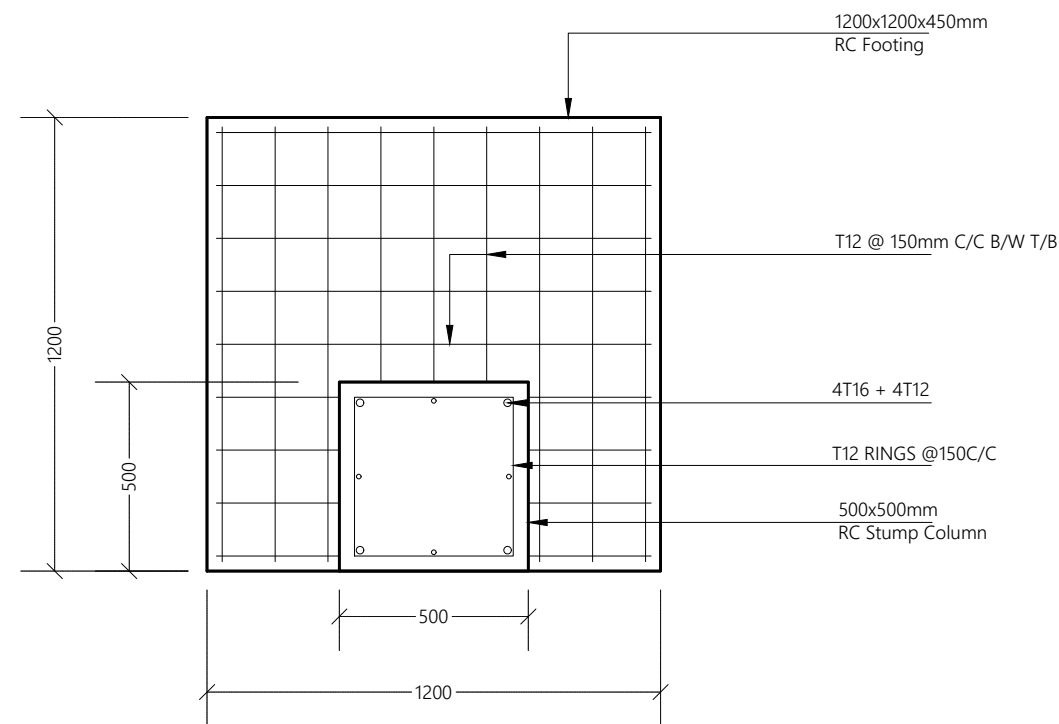
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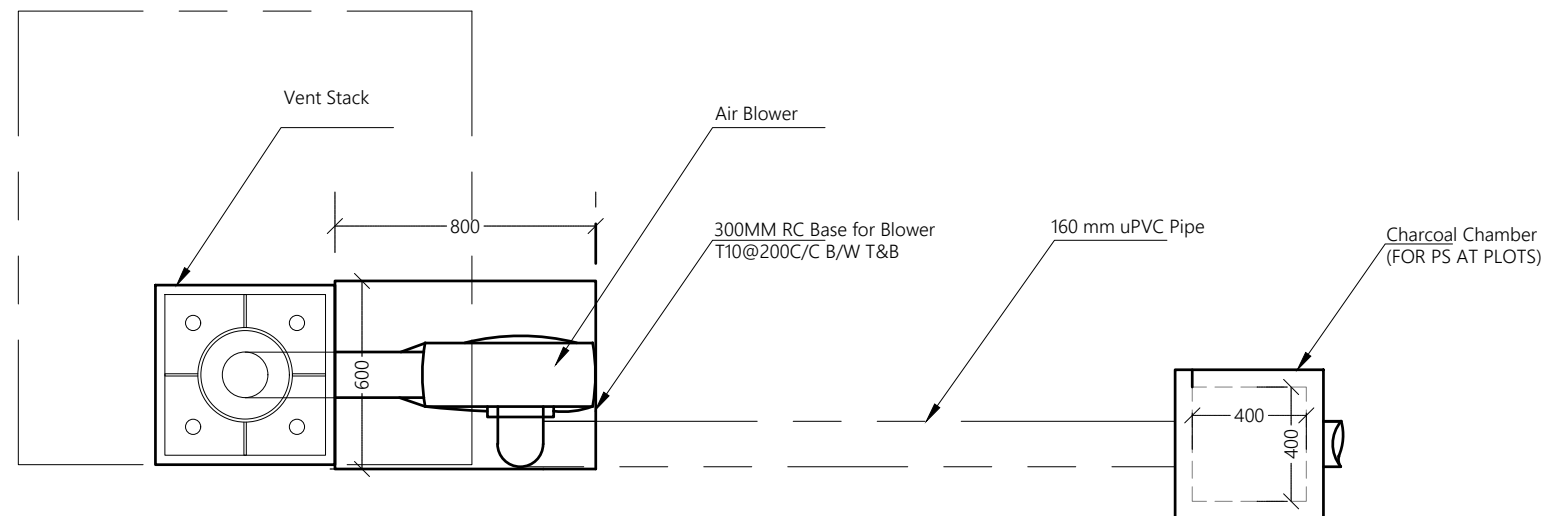
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Designed: F.I.A.	Approved: I.W.
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Project No: EP-WS/2019/05	
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FOOTING & STUMP DETAILS OF VENT STACK



AIR BLOWER DETAILS (Plan View)

VENT STACK AND AIR BLOWER DETAILS

NTS



Legend

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6 islands, Maldives - Package 5**

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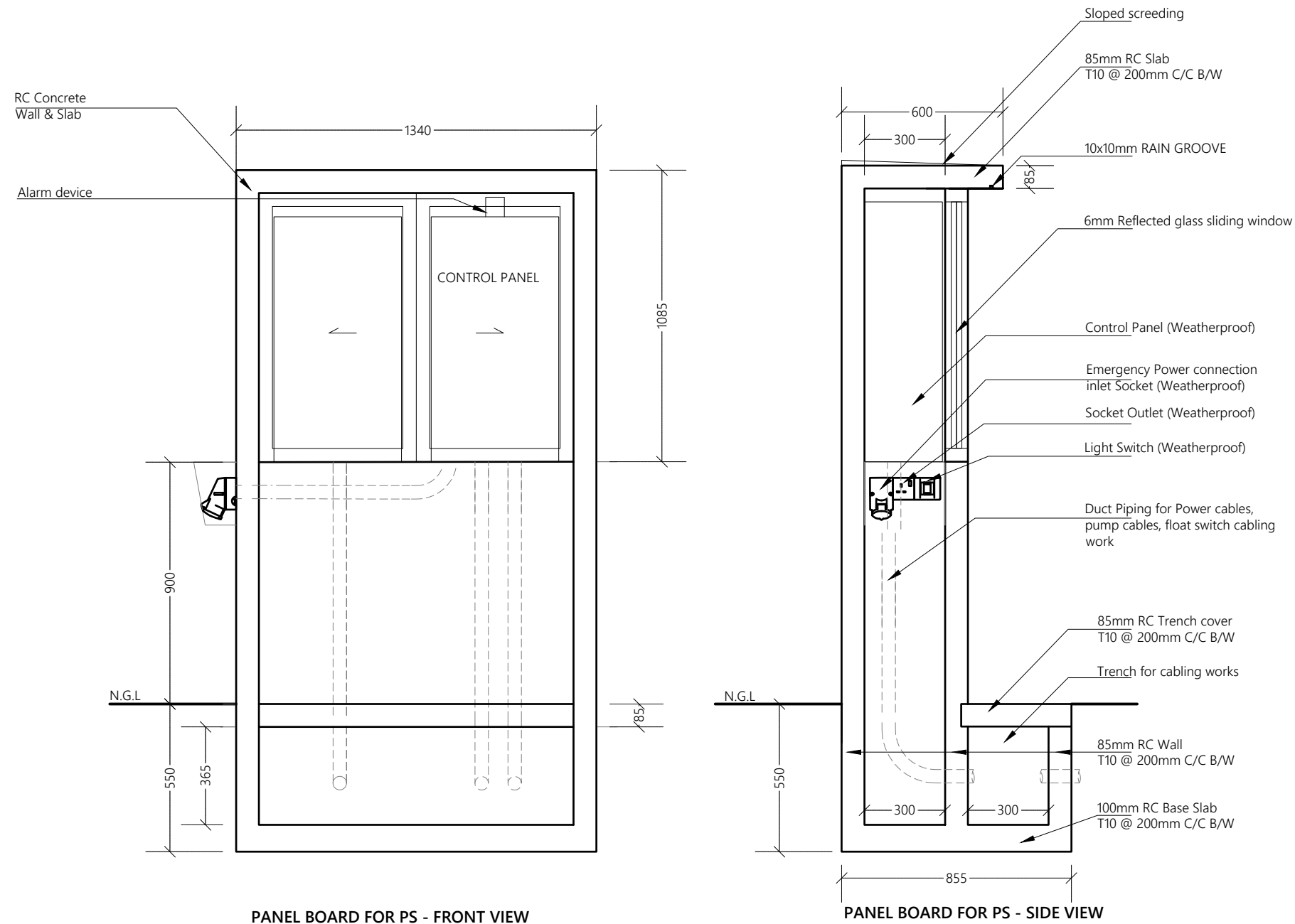
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Date: Sep 2020 SCALE (A3): NTS

Project No: EP-WS/2019/05

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CONTROL PANEL BOARD DETAILS

NTS



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

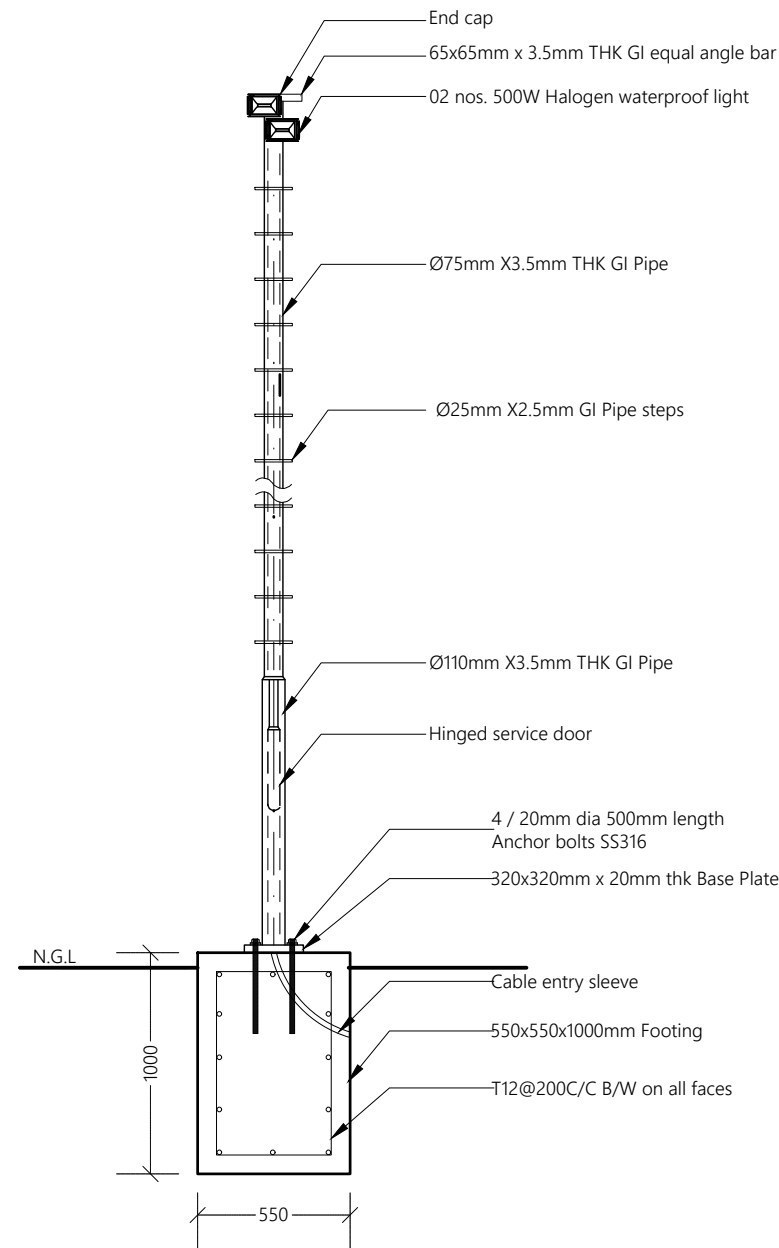
Client:
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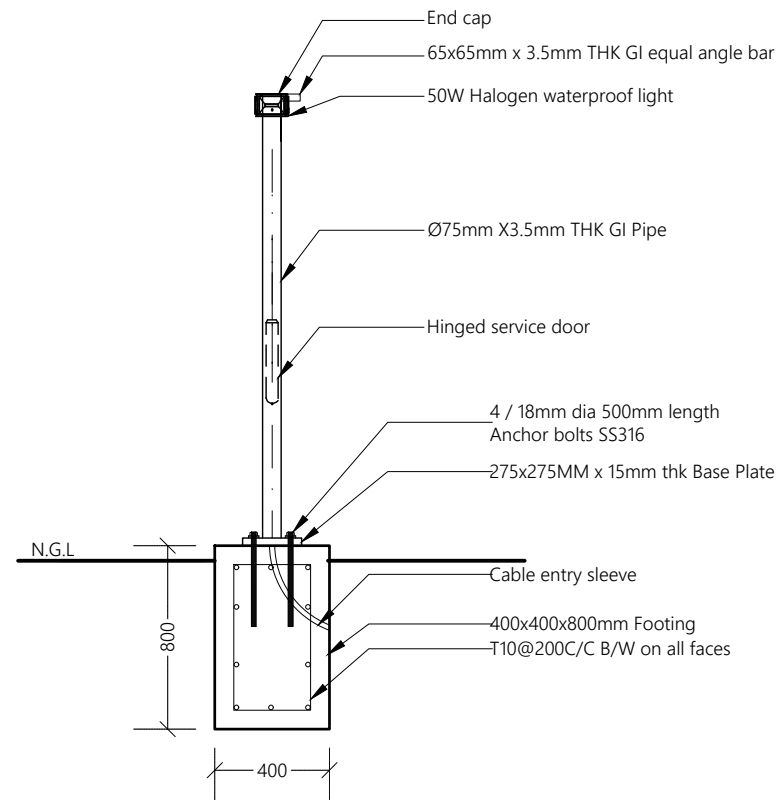
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FEEDBACK INFRA
Working Safely, Constructing Happily

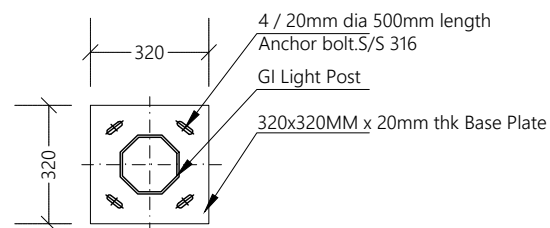
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Designed: F.I.A.	Approved: I.W.
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Project No: EP-WS/2019/05	
Rev:	Page: W-(11)



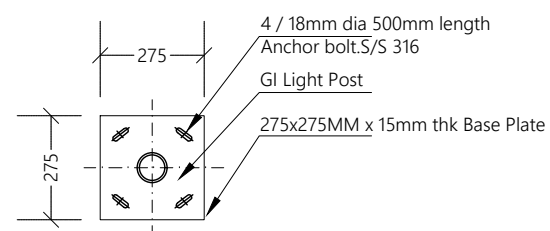
LIGHT POST DETAILS FOR STP COMPOUND (LP1)



LIGHT POST DETAILS FOR PUMP STATION (LP2)



BASE PLATE (LP1)



BASE PLATE (LP2)

NOTE:
 - CONCRETE COVER :50mm
 - All steel members and GI SHS to be applied with 2 coats of anti-corrosive paint with epoxy finishing paint

LIGHT POST DETAILS

NTS



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

Client:
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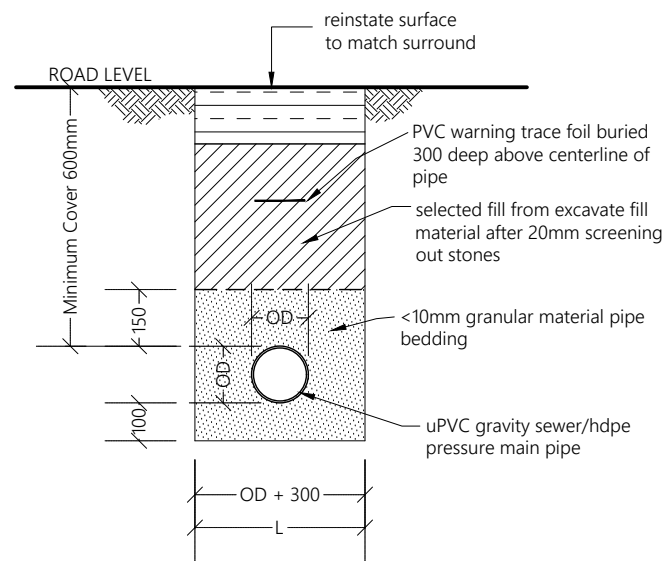
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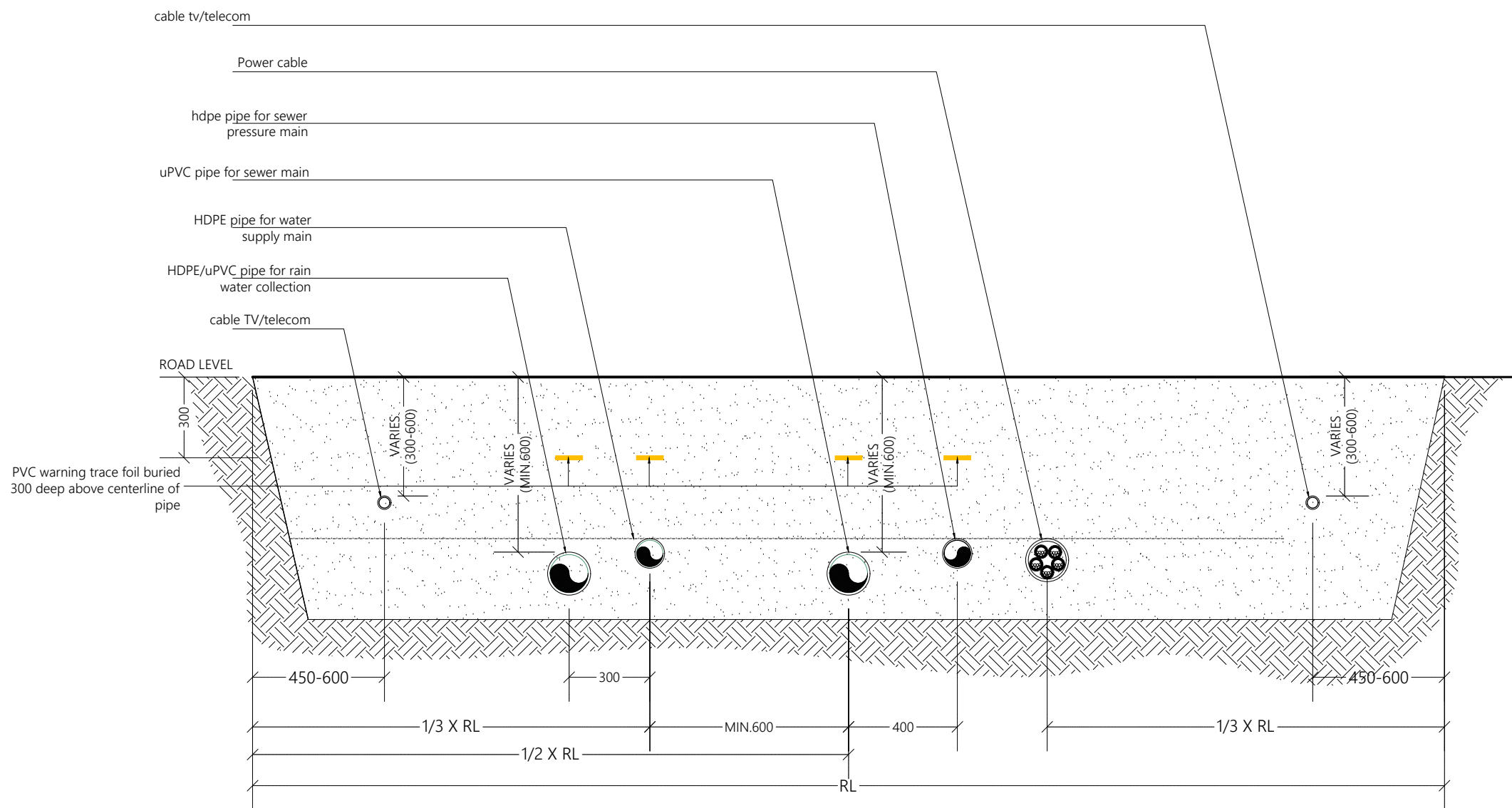


FEEDBACK INFRA
Maldives Engineering & Construction

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TRENCH & BEDDING DETAILS



TYPICAL ROAD SECTION

TRENCH AND BEDDING DETAILS

1:20

Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
**Consultancy Services for Survey,
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Supply and Sewerage Facilities in
6 Islands, Maldives - Package 5**

Sub Title:
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Client:
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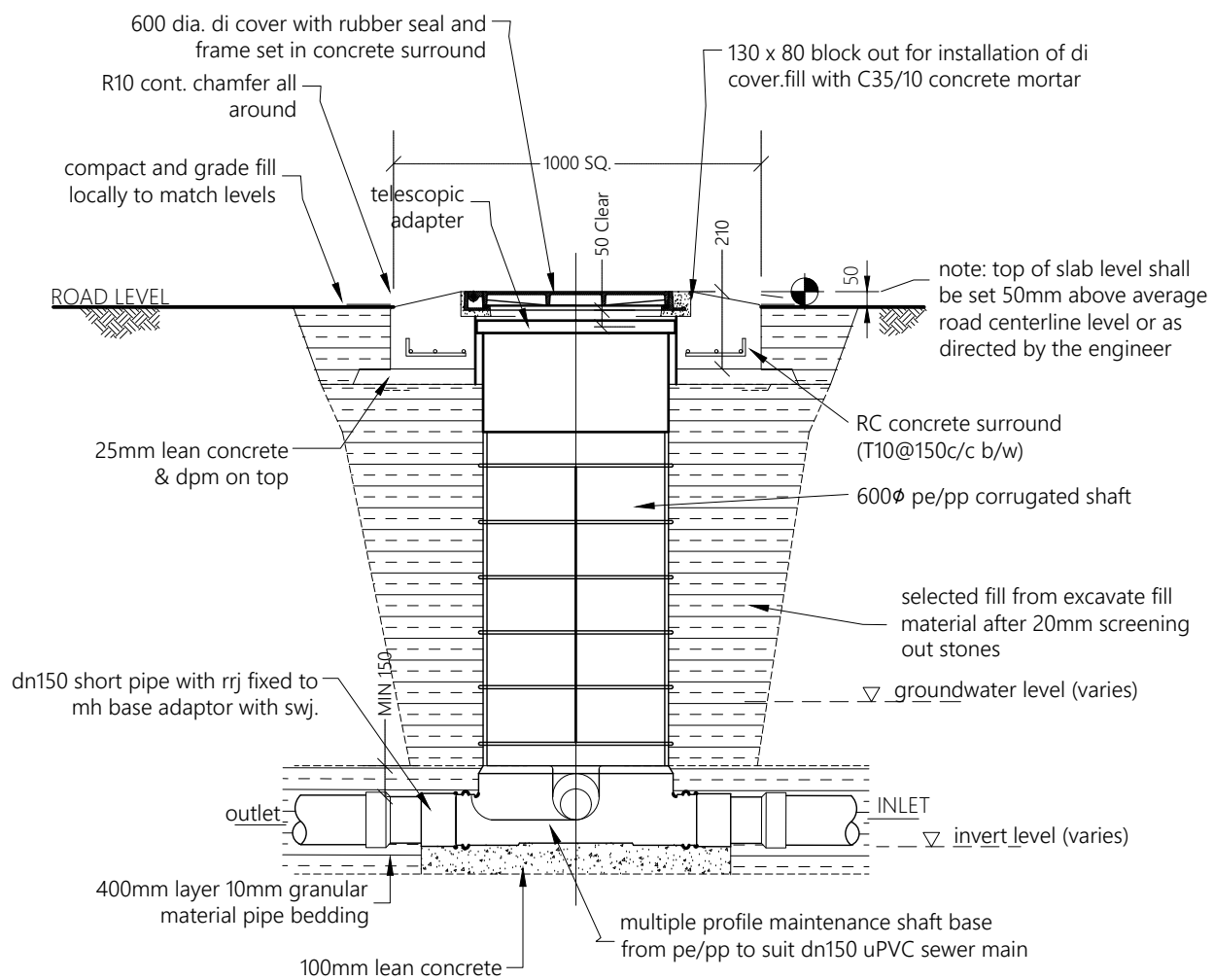
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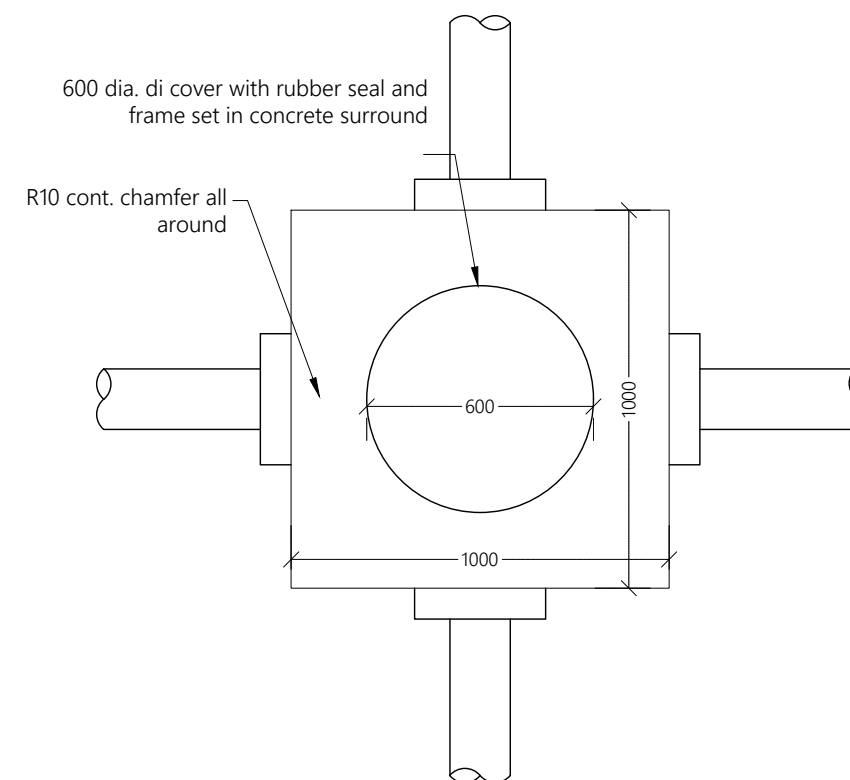
Project No: EP-WS/2019/05

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W-(13)



ELEVATION - MAINTENANCE SHAFT (MH)



PLAN VIEW - MAINTENANCE SHAFT (MH)

MAINTENANCE SHAFT (MH) DETAILS

1:20



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

Client:
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Maldives Sri Lanka Sri Lanka Sri Lanka

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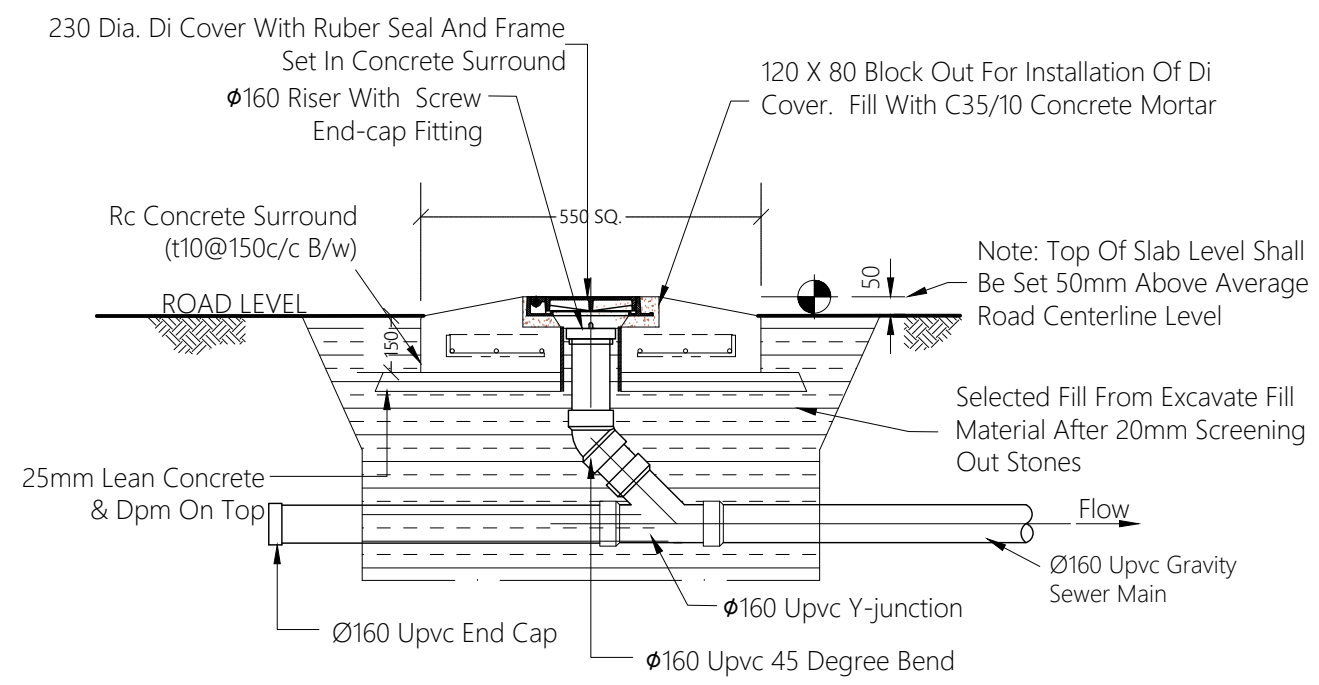
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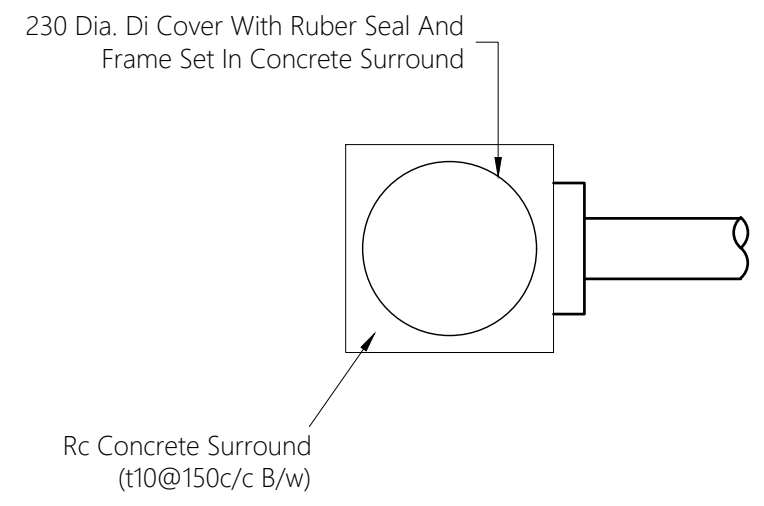
Project No: EP-WS/2019/05

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ELEVATION - CLEANOUT (CO)



PLAN VIEW - CLEANOUT (CO)

CLEAN OUT DETAILS

NTS

N

Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

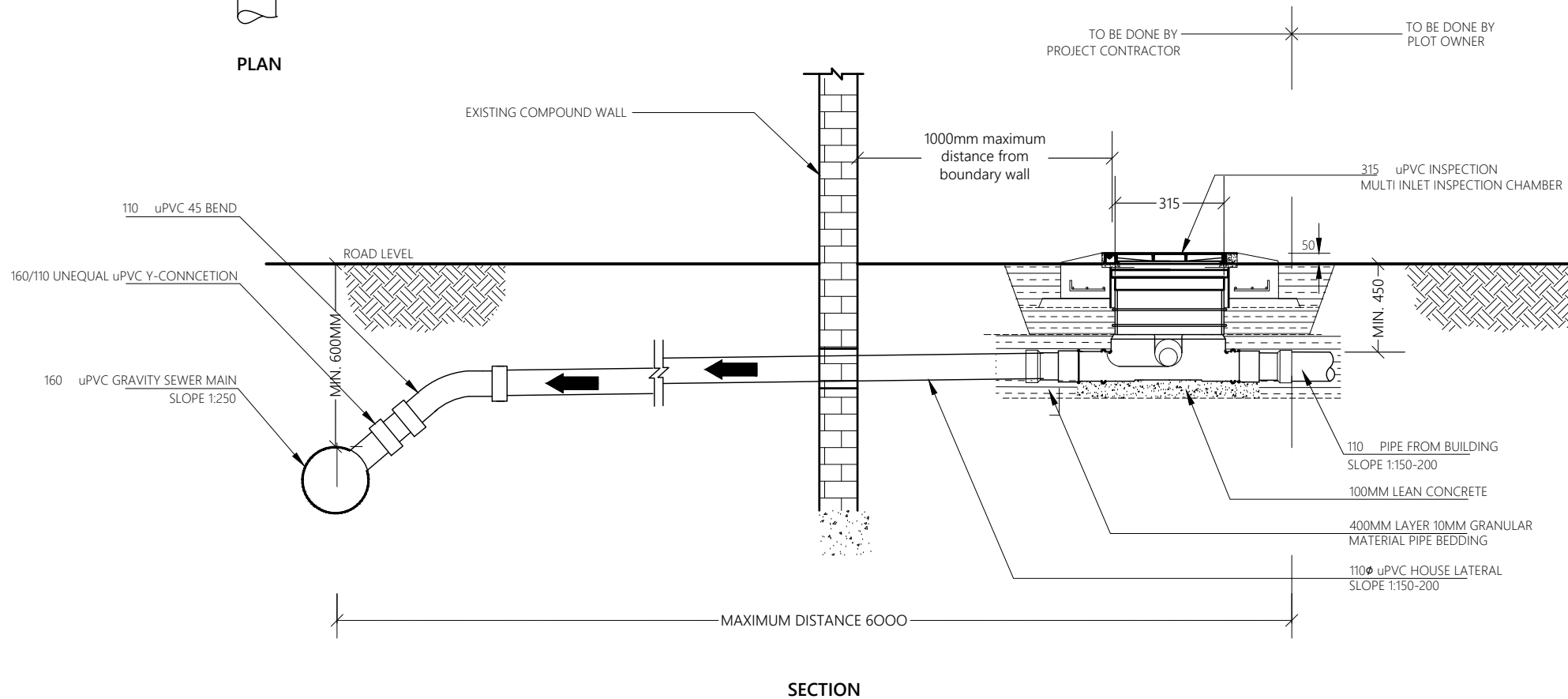
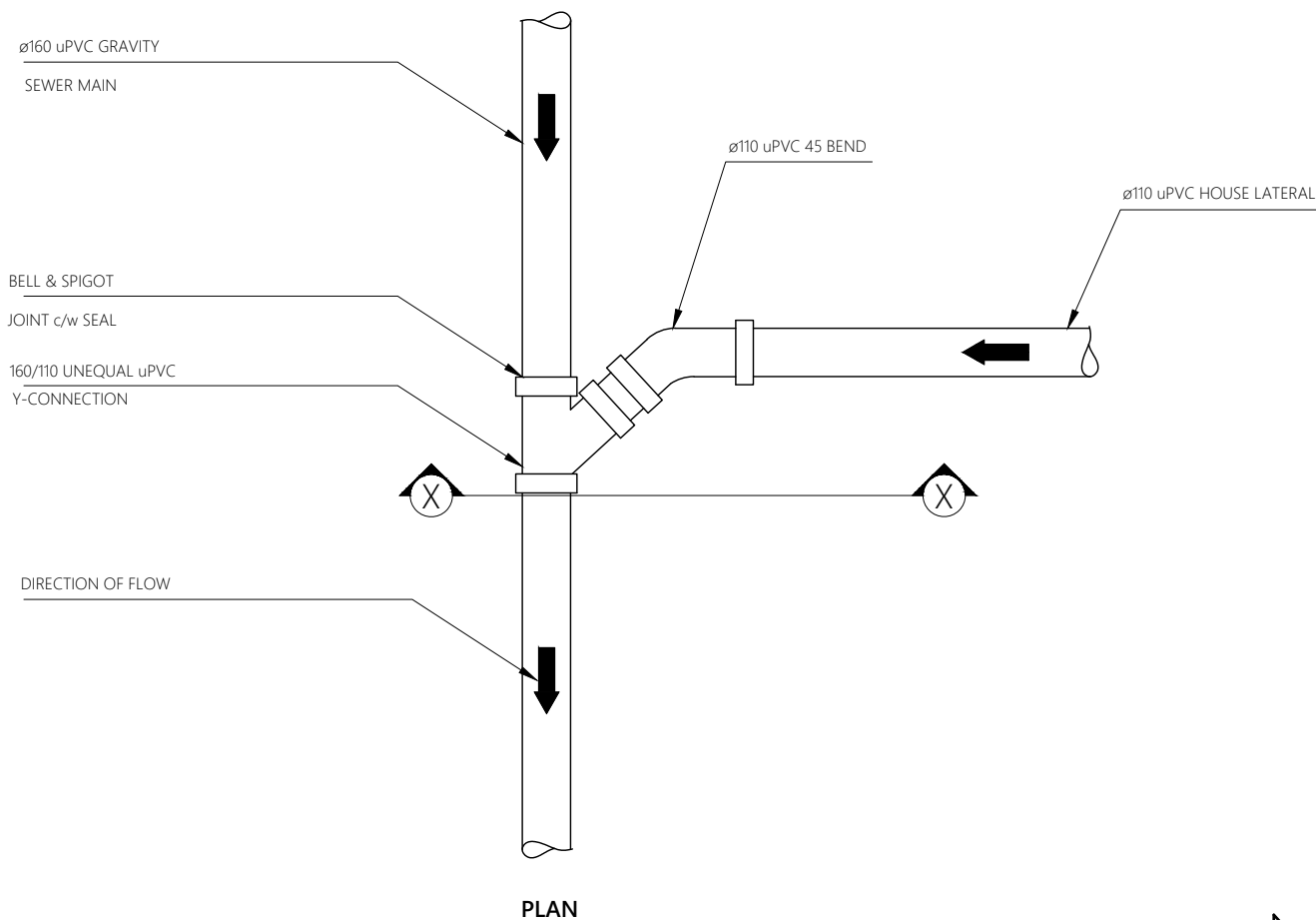
Client:
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Maldives

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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/05	Page: W-(16)



TYPICAL HOUSE CONNECTION DETAIL

NTS



Legend

Notes:

1. Invert level at house inspection chamber and invert level of the sewer main on the road should be checked during the house connection survey and invert level should be adjusted in order to facilitate gravity flow from house inspection chamber to sewer main.

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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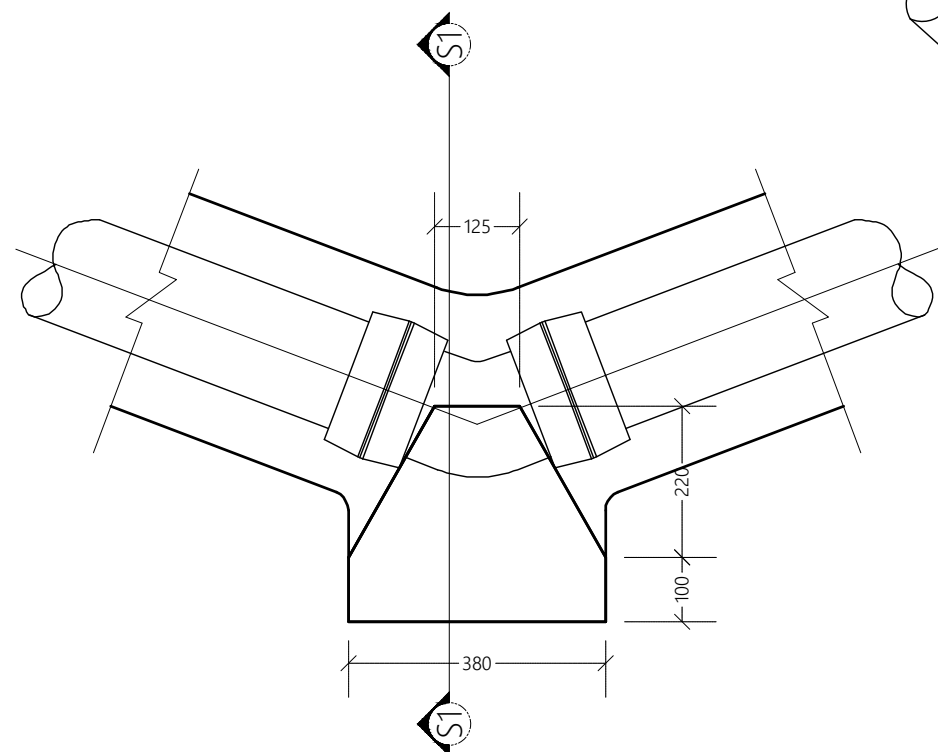
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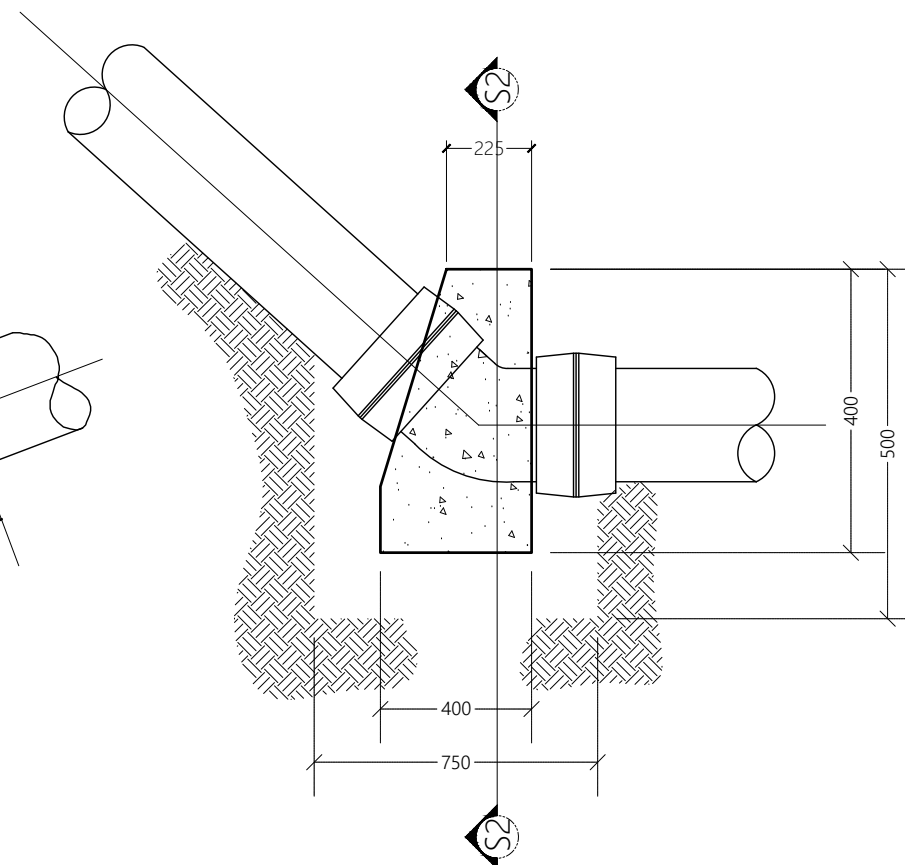
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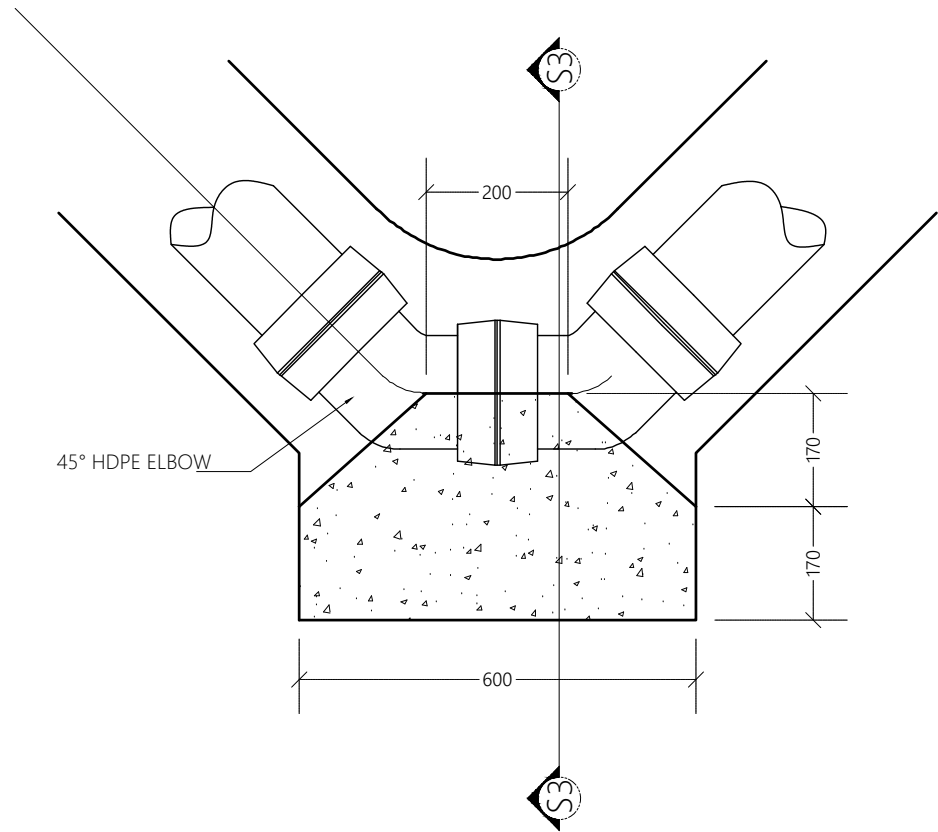
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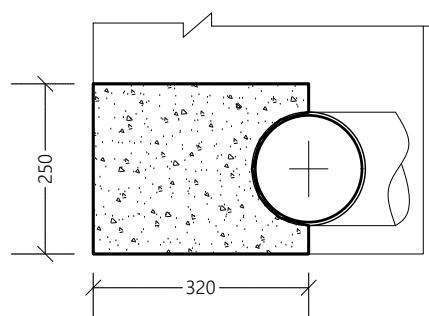
HORIZONTAL 45° BEND
NTS



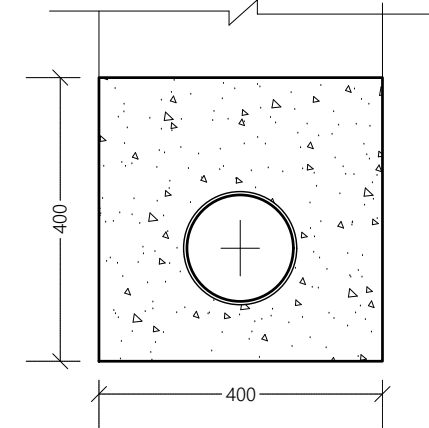
VERTICAL 45° BEND
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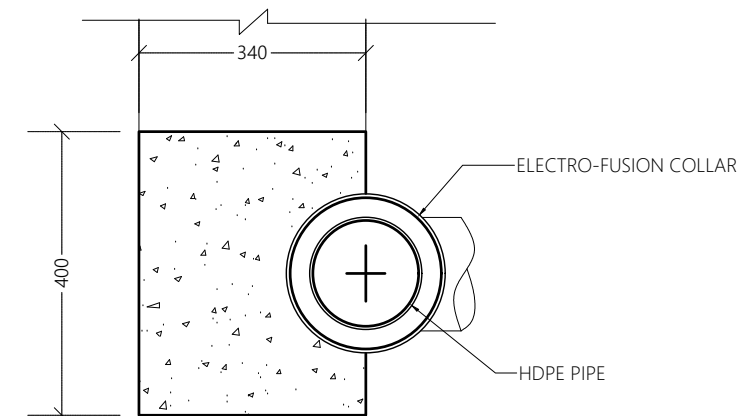
HORIZONTAL 90° BEND
NTS



SECTION S1-S1
NTS



SECTION S2-S2
NTS



SECTION S3-S3
NTS

THRUST BLOCK DETAILS

NTS



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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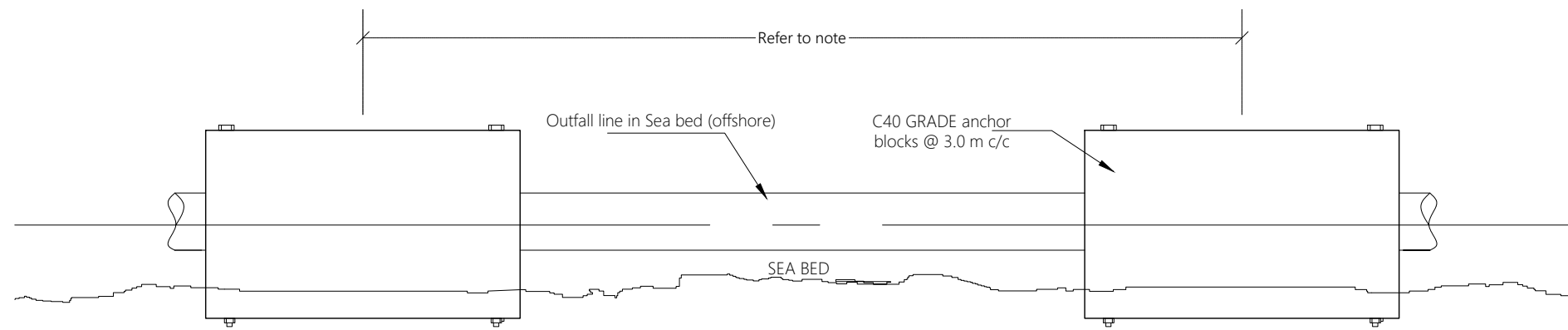
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Project No: EP-WS/2019/05

Rev: Page:



Technical drawing of a sea bed marker. The elevation view shows a structure with a total height of 600 mm (300 mm + 300 mm) and a base width of 900 mm. The top is a semi-circle with a radius of 450 mm. A circular hole with a diameter of 150 mm is centered on the front face. The plan view shows a square base with a side length of 900 mm. The structure is labeled 'SEA BED'.

Technical drawing of a gravity anchor block for a pile cap. The block is semi-circular with a diameter of 600 mm. It features an outfall pipe at the top center, secured by four 25mm diameter threaded rods with SS316 bolts. The block is reinforced with T12 bars at 200mm center-to-center spacing. The top surface is made of C40A grade concrete. The block is shown resting on a sea bed. Dimensions include a total height of 600 mm (300 mm for the upper semi-circular part and 300 mm for the lower rectangular part) and a base width of 600 mm. The drawing also shows a 150 mm offset from the centerline to the edge of the block.

4 nos. 25mm ϕ Threaded rod with bolts (SS316)

1000

100

150

400



600

100

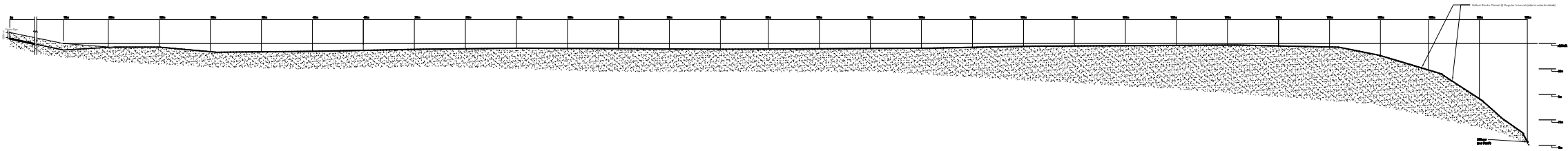
100

27mm ϕ hole

Legend

<p>Title:</p> <h1>Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5</h1> <p>Sub Title:</p> <h2>Sewerage System in M. Raiymandhoo</h2>	
<p>Client:</p> <h3>Ministry of National Planning, Housing and Infrastructure, Republic of Maldives</h3>	
 <p>EPOCH ASSOCIATES</p> <p>T : +960 333 3528 E : info@epoch.associates W : www.epoch.associates A : G. Rosary West, Husnubeenaa Magu, Male', Maldives</p>	 <p>FEEDBACK INFRA Maldivi Sustainable Skoppe</p>
Drawn: F.I.A.	Checked: M.S.S.
Designed: F.I.A.	Approved: I.W.
Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/05	
Rev:	Page: W-(19)

NTS



Legend

Notes:

- 1. Contractor should carry out a detailed bathymetric survey for the proposed area, revise and present a shop drawing for the outfall layout prior to commencement of outfall works.
- 2. In shallow water (regions where the depth is less than 1m), the ballast block spacing is 3.5m. In deeper water (regions where the depth is greater than 1m), the ballast block spacing is 2.0m. All distances are from c/c of blocks.

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.


Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M. Raiymandhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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Husnuheena Magu, Male', Maldives



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Maldives

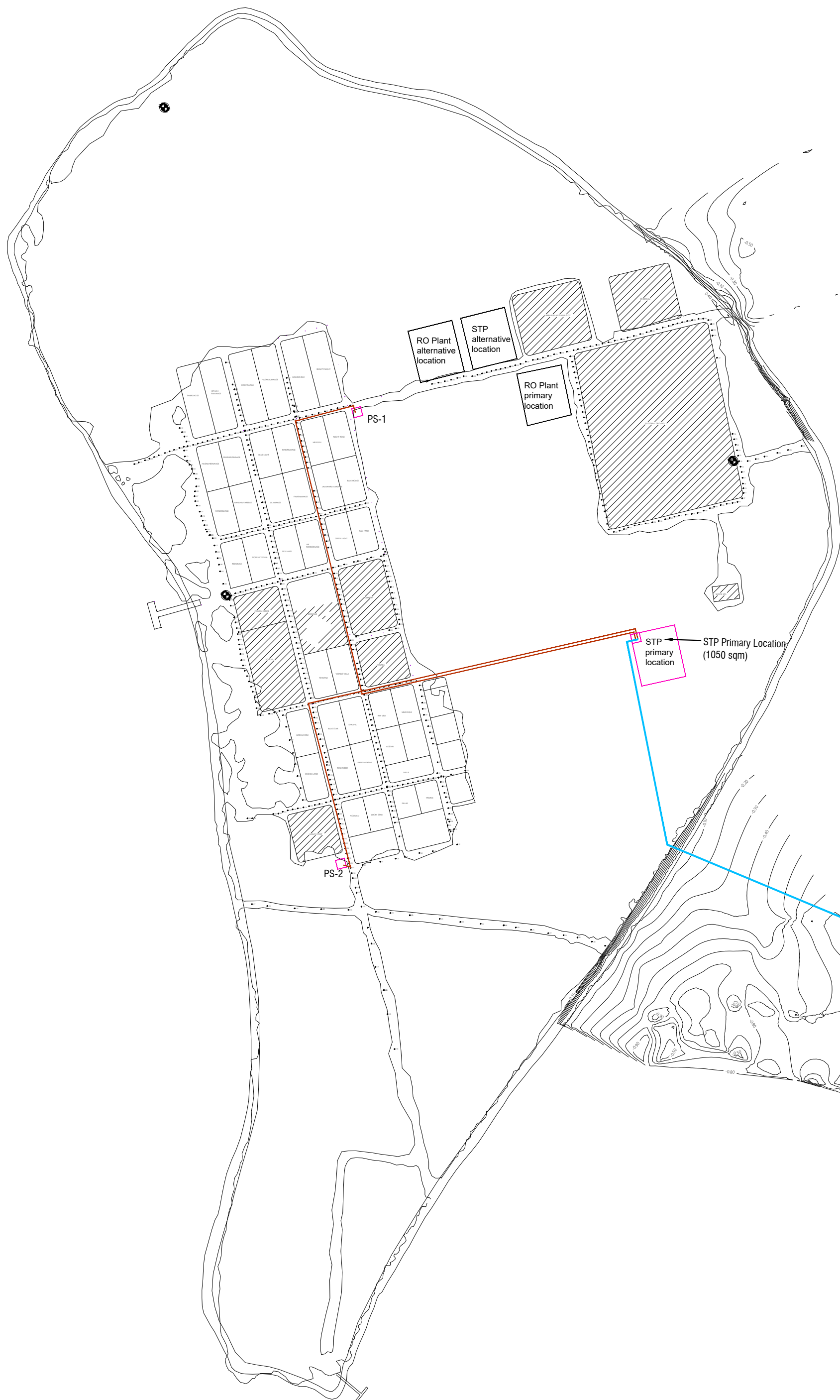
Drawn: F.I.A. Checked: M.S.S.

Designed: F.I.A. Approved: I.W.

Date: Sep 2020 SCALE (A3): NTS

Project No: EP-WS/2019/05

Rev: Page: **W-(21)**

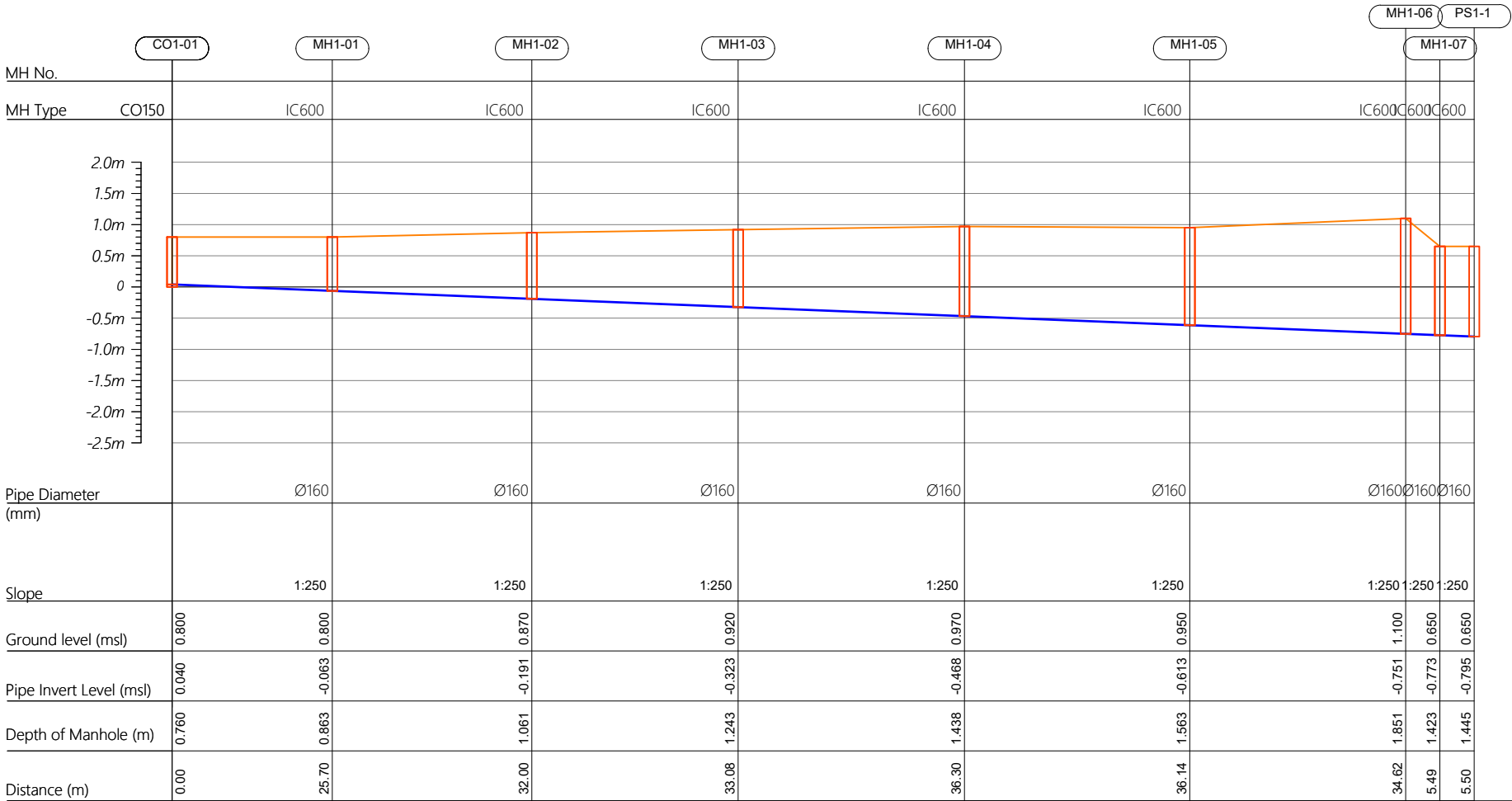


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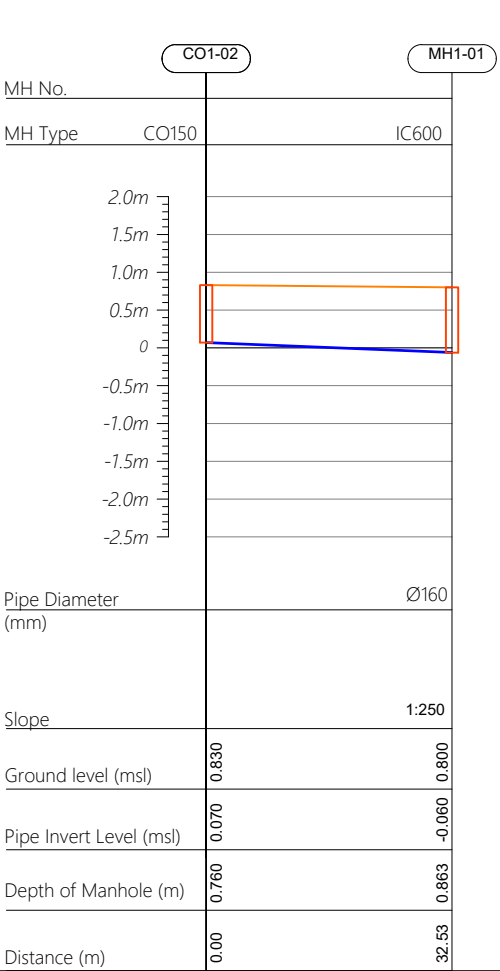
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Profile 01



Profile 02



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
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Client:
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Drawn: A.R.W Checked: M.S.S

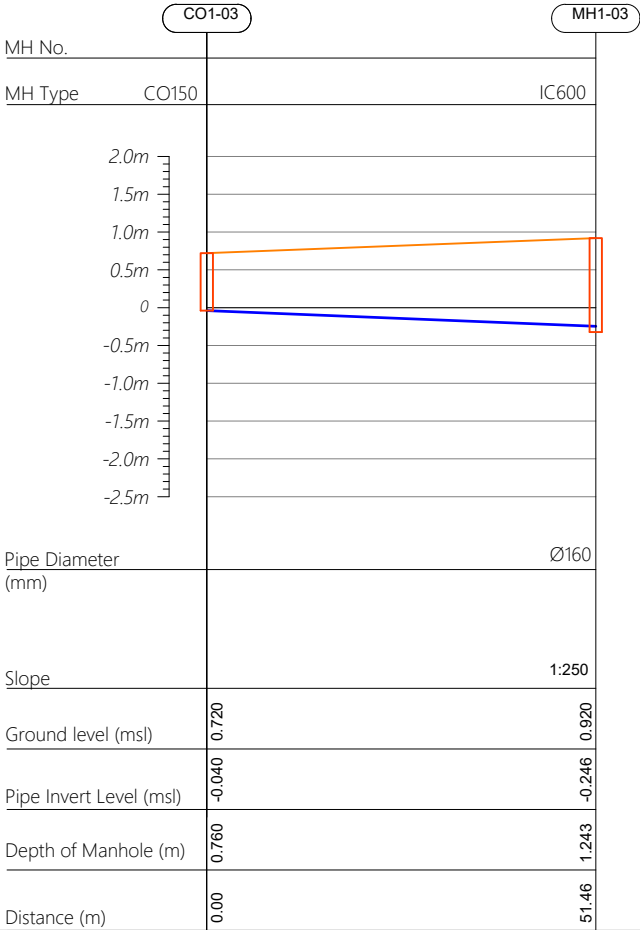
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Date: Aug 2020 SCALE (A3): 1:100

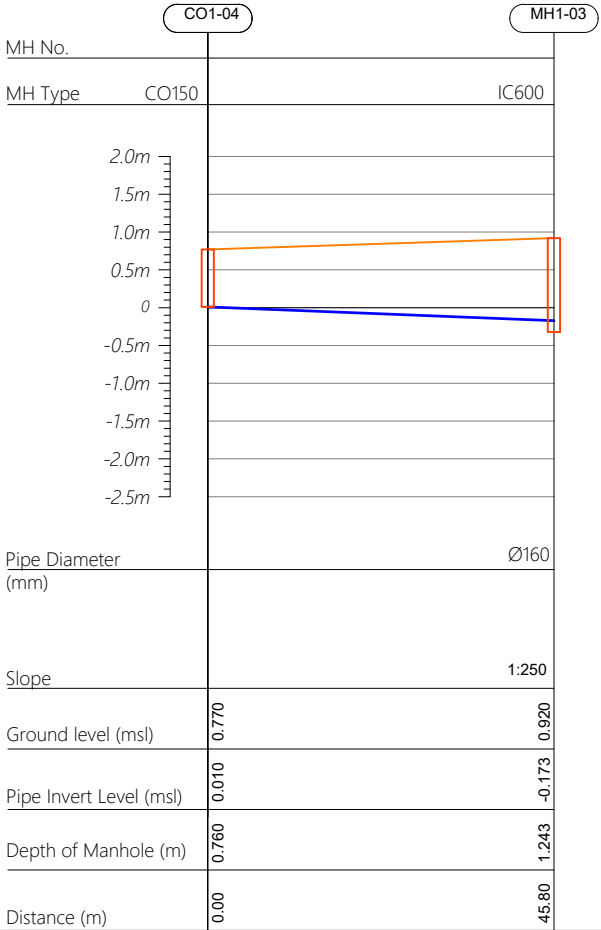
Project No: 01010101

Rev: R-01 Page: PS1-01

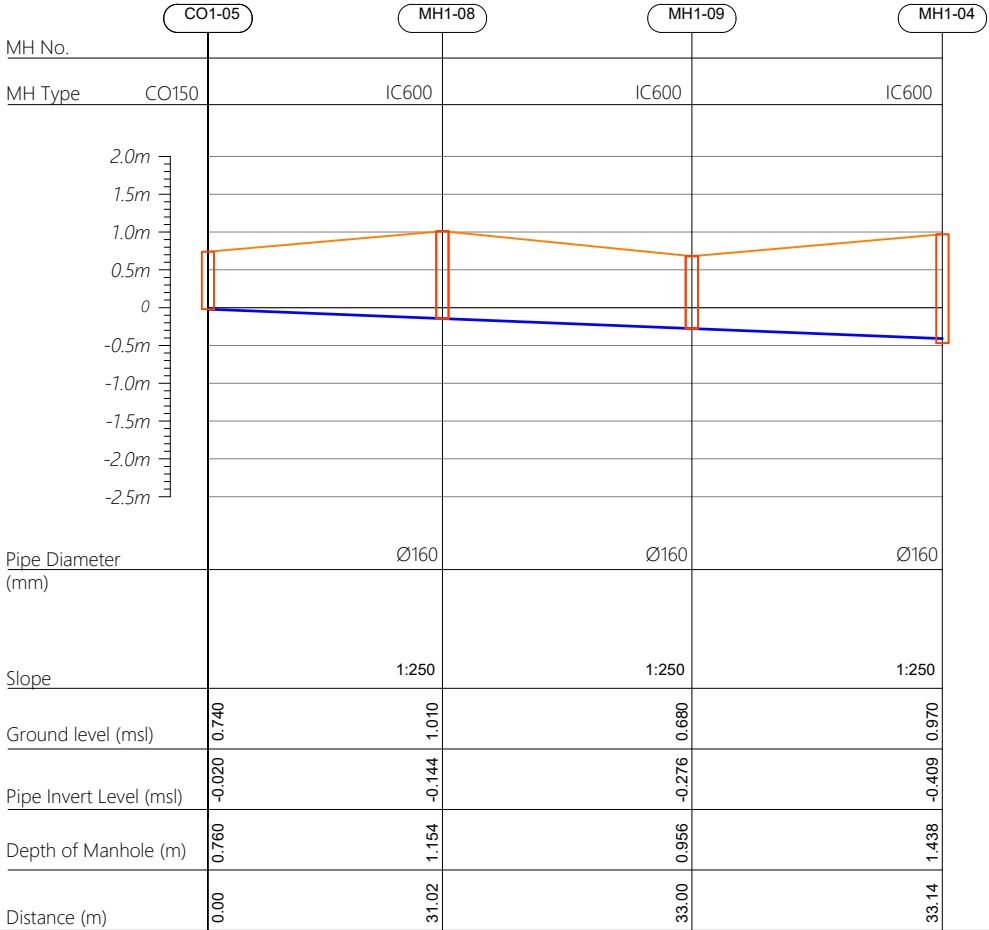
Profile 03



Profile 04



Profile 05



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M.Raiymandhoo

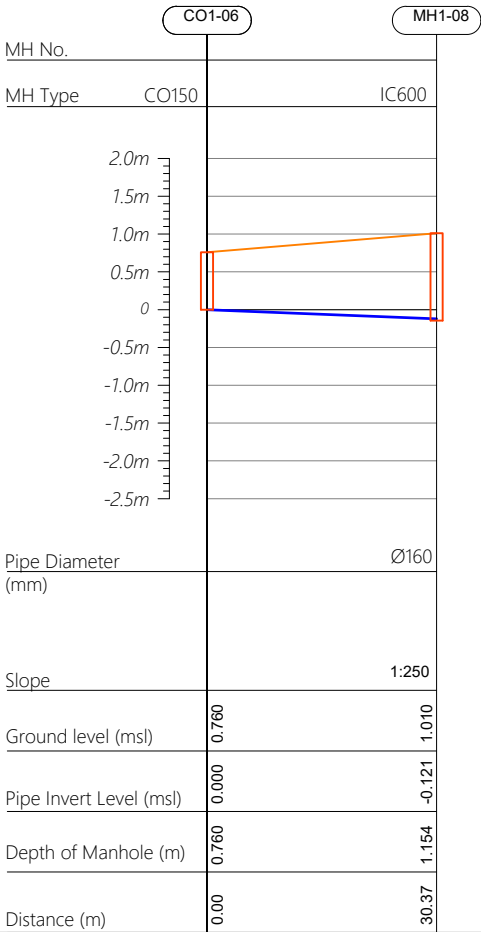
Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

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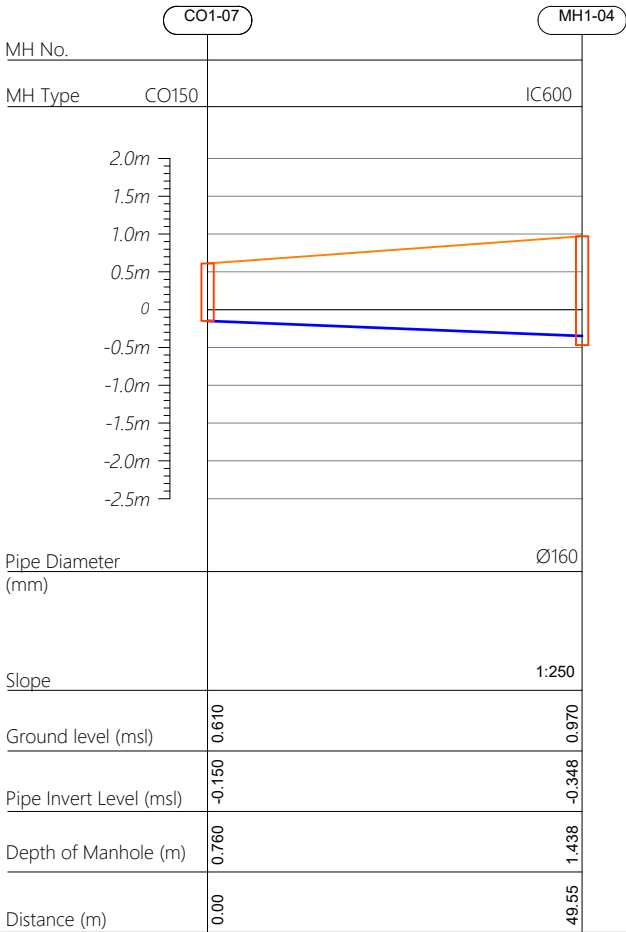
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Drawn: A.R.W	Checked: M.S.S
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Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	
Rev: R-01	Page: PS1-02

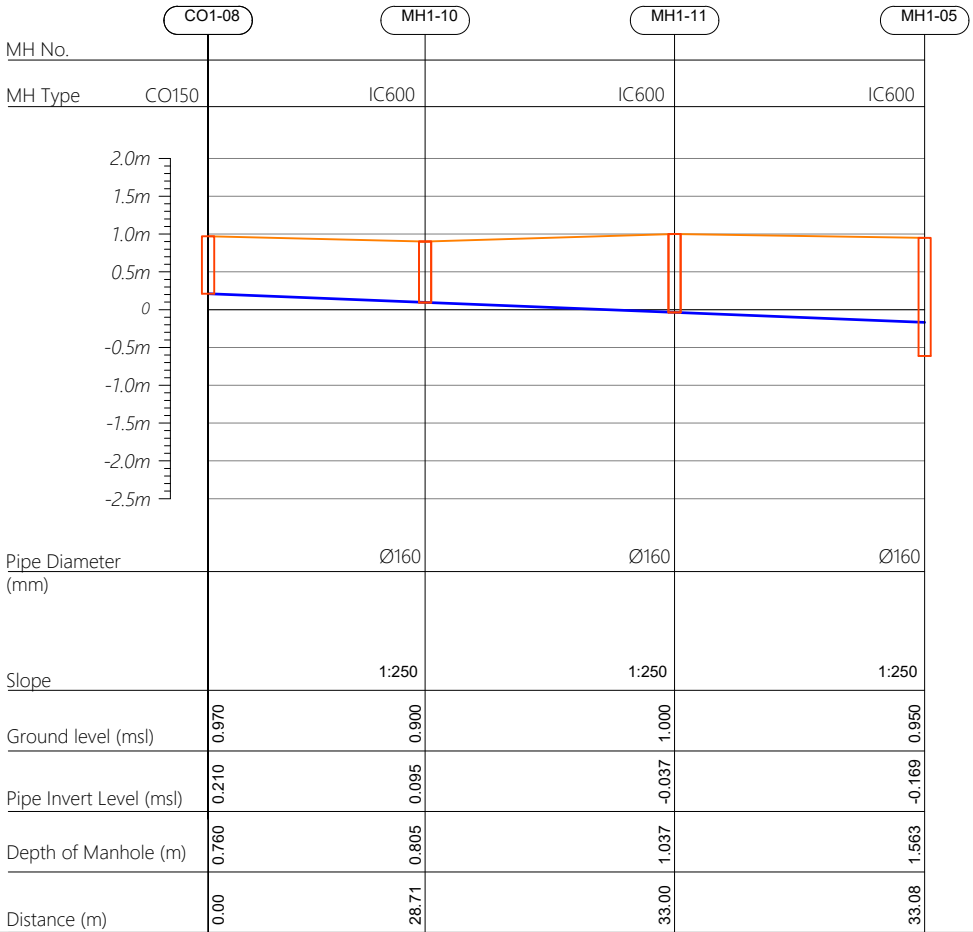
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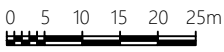
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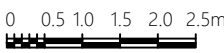
Profile 08



HORIZONTAL SCALE



VERTICAL SCALE



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
**Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
6 islands, Maldives - Package 5**

Sub Title:
Sewerage System in M.Raiymandhoo

Client:
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Husnuheemaa Magu, Male', Maldives



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Drawn: A.R.W Checked: M.S.S

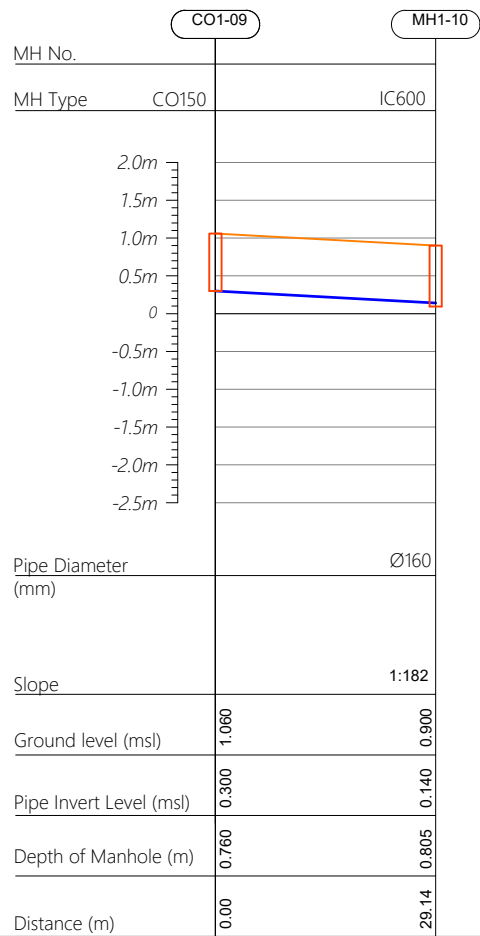
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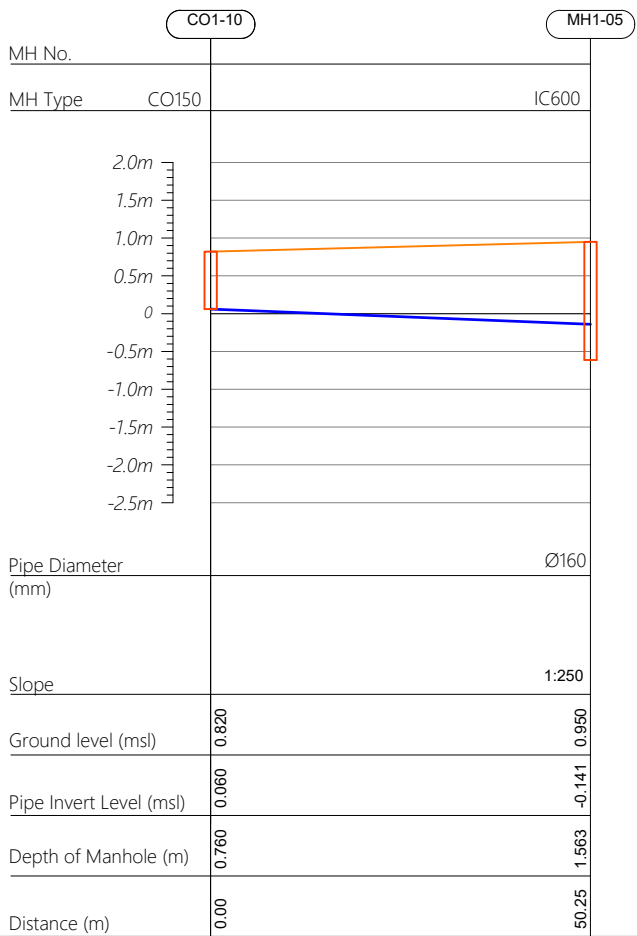
Project No: 01010101

Rev: R-01 Page: PS1-03

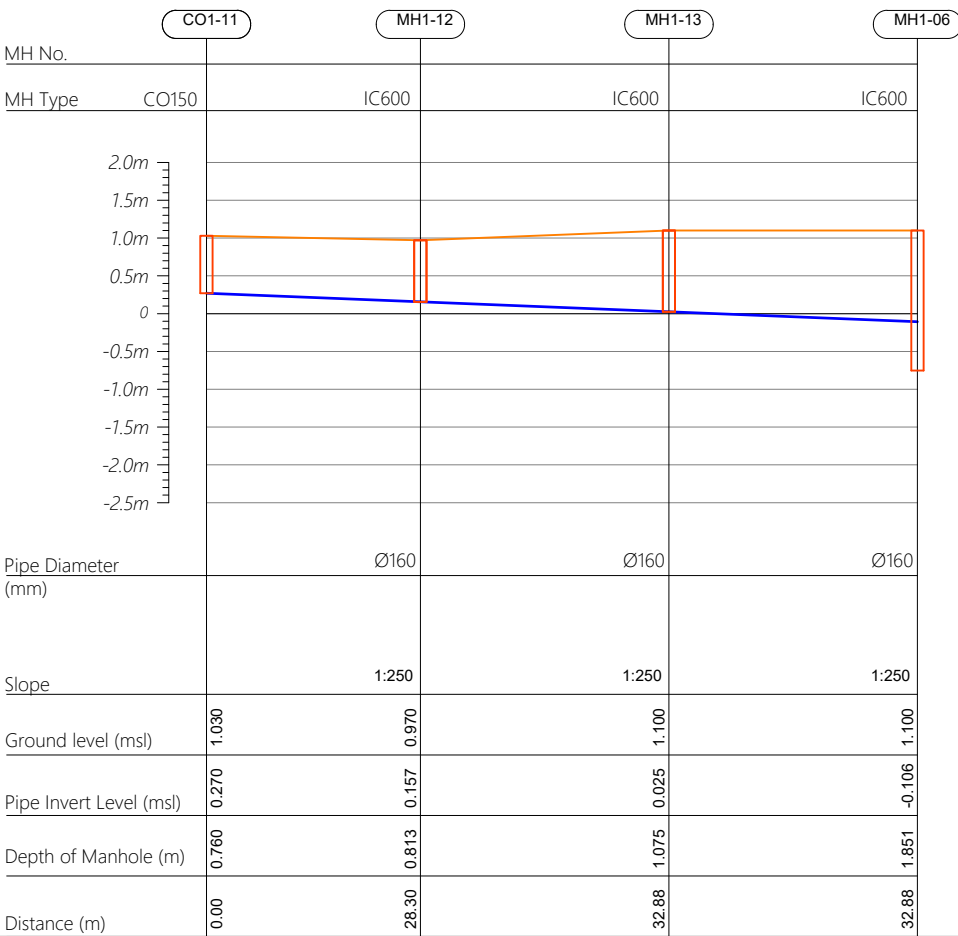
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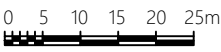
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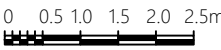
Profile 11



HORIZONTAL SCALE



VERTICAL SCALE



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
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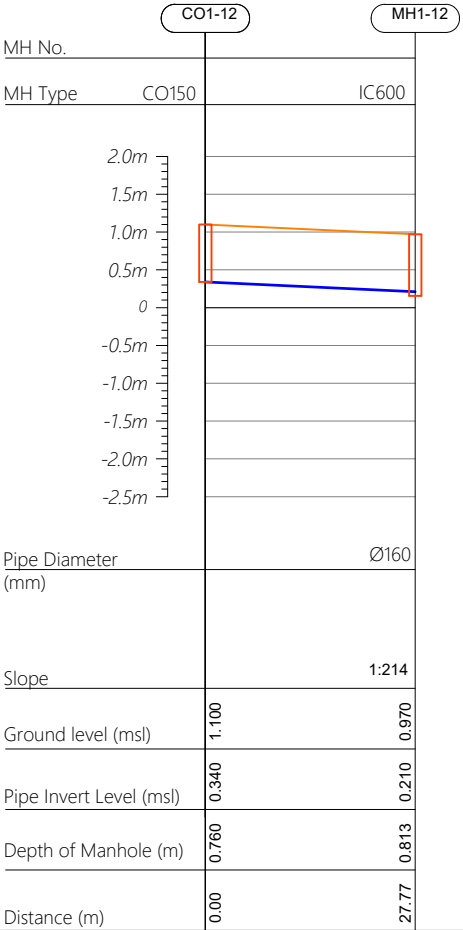
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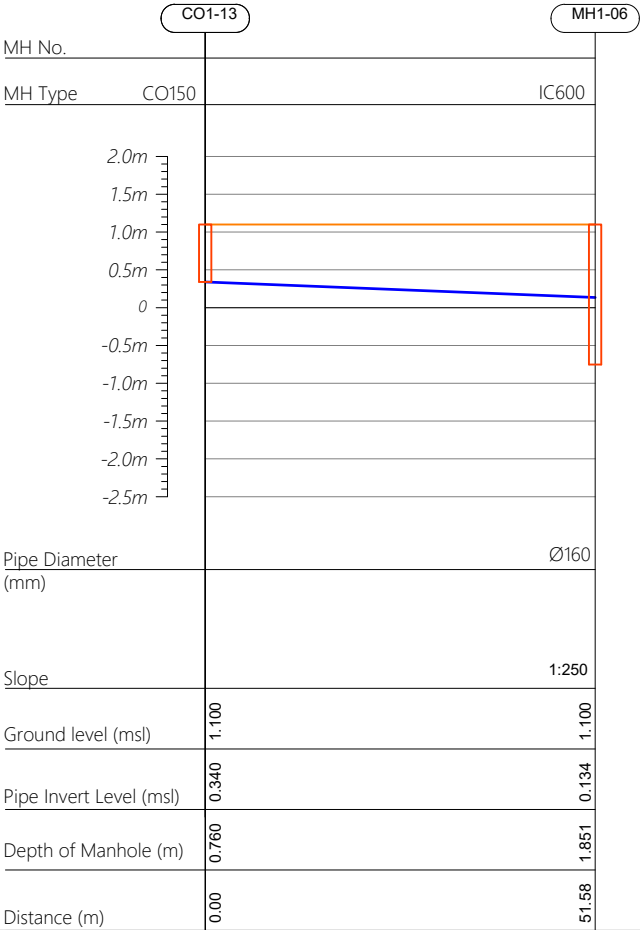
Project No: 01010101

Rev: R-01 Page: PS1-04

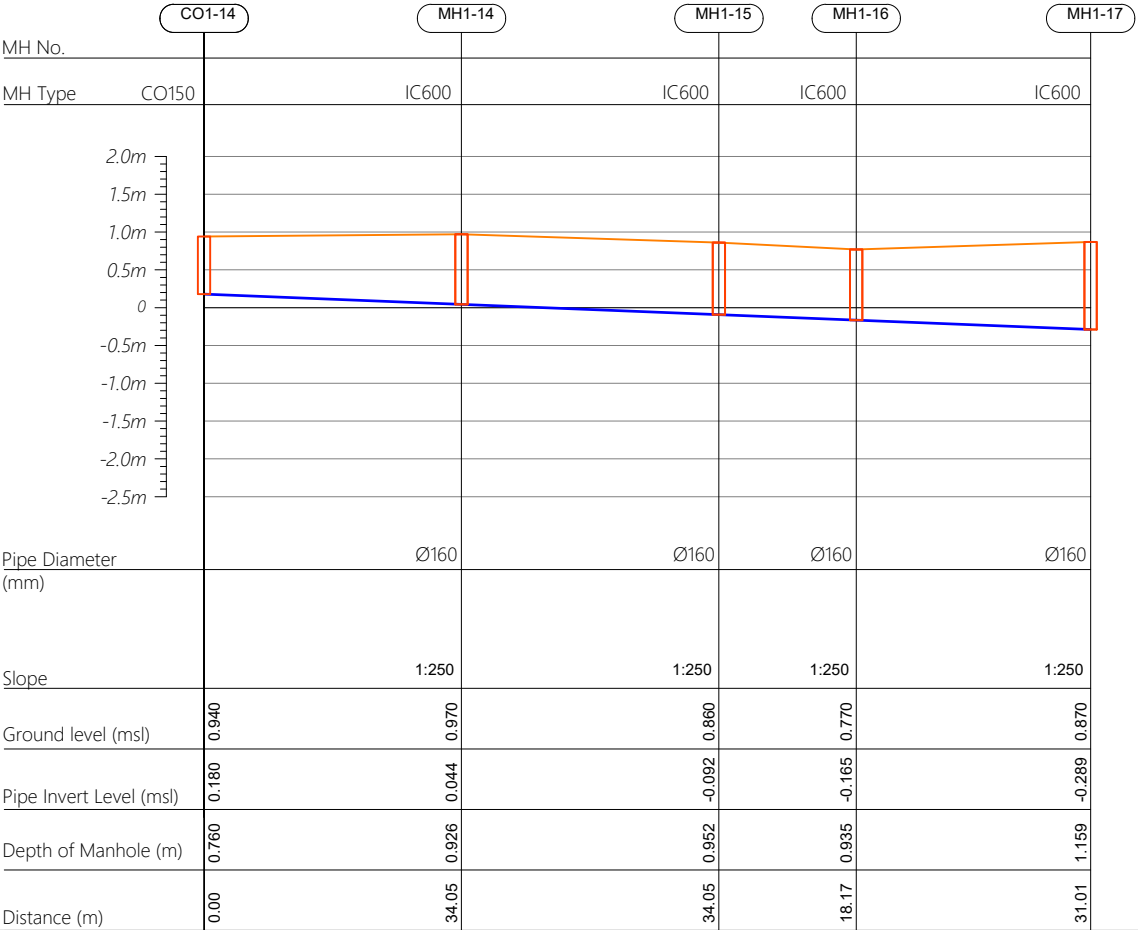
Profile 12



Profile 13



Profile 14



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M.Raiymandhoo

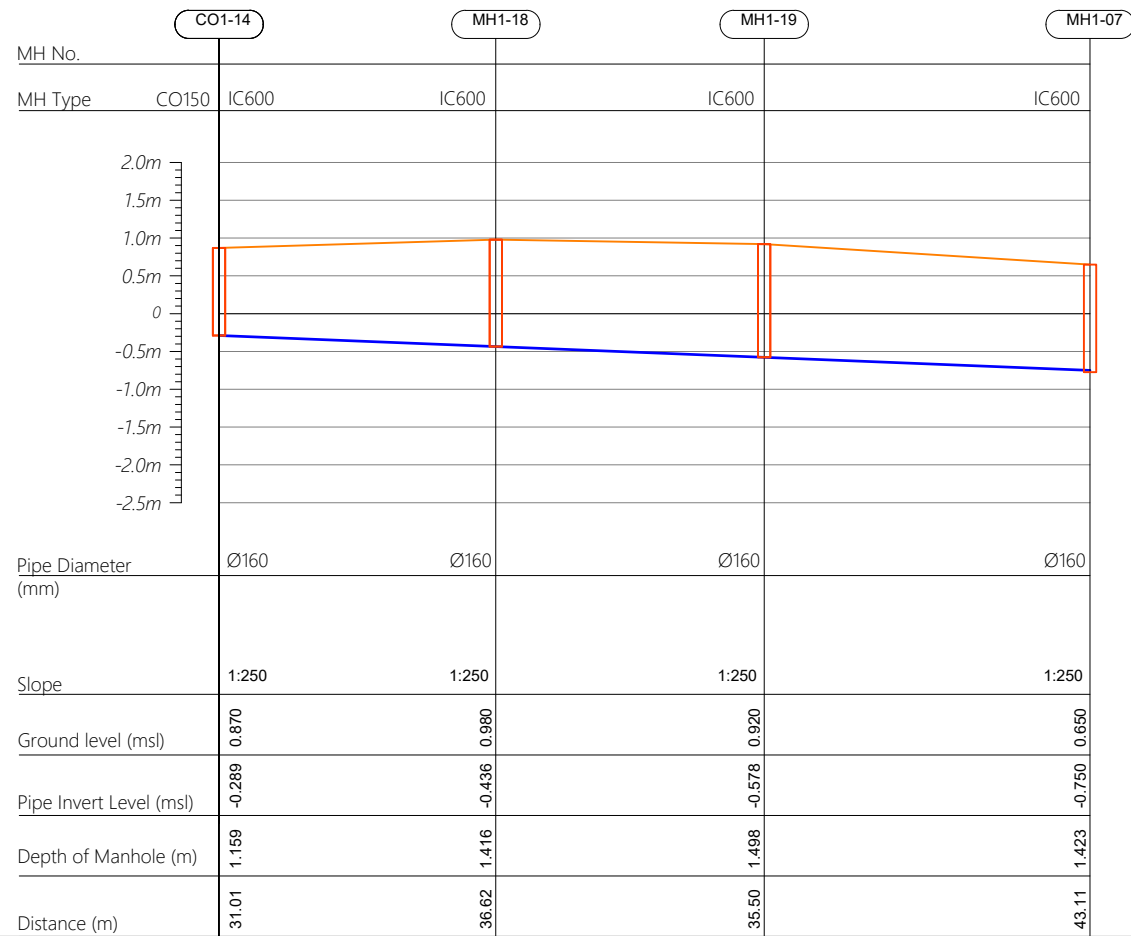
Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

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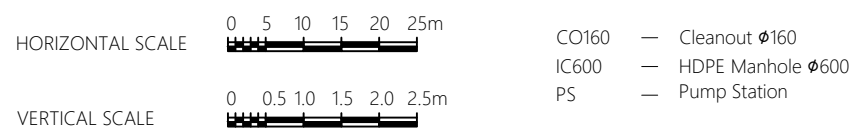
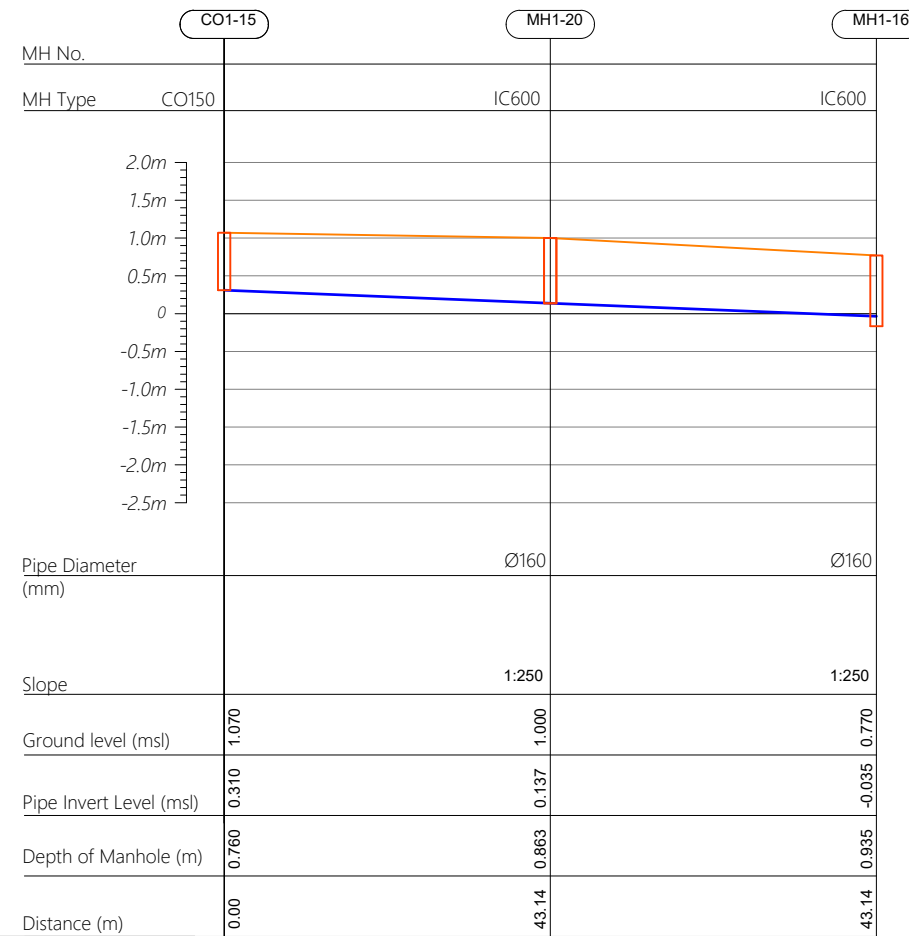
Maldivu Infrastructure Develop

Drawn: A.R.W	Checked: M.S.S
Designed: F.I.A	Approved: I.W
Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	
Rev: R-01	Page: PS1-05

Profile 14



Profile 15



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
6 islands, Maldives - Package 5*

Sub Title:
Sewerage System in M.Raiymandhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



Drawn: A.R.W	Checked: M.S.S
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Designed: F.I.A	Approved: J.W
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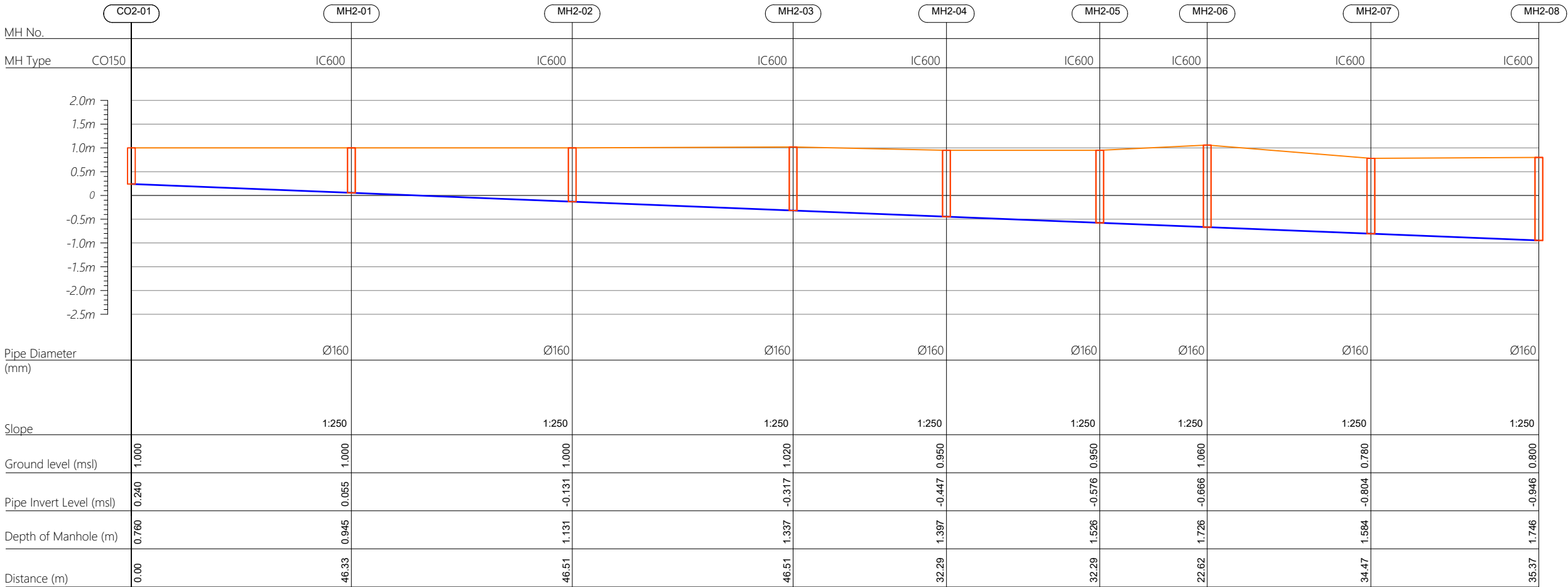
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Project No: 01010101

Rev. _____ Page: _____

R-01 PS1-06

Profile 01



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M.Raiymandhoo

Client:
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Drawn: A.R.W Checked: M.S.S

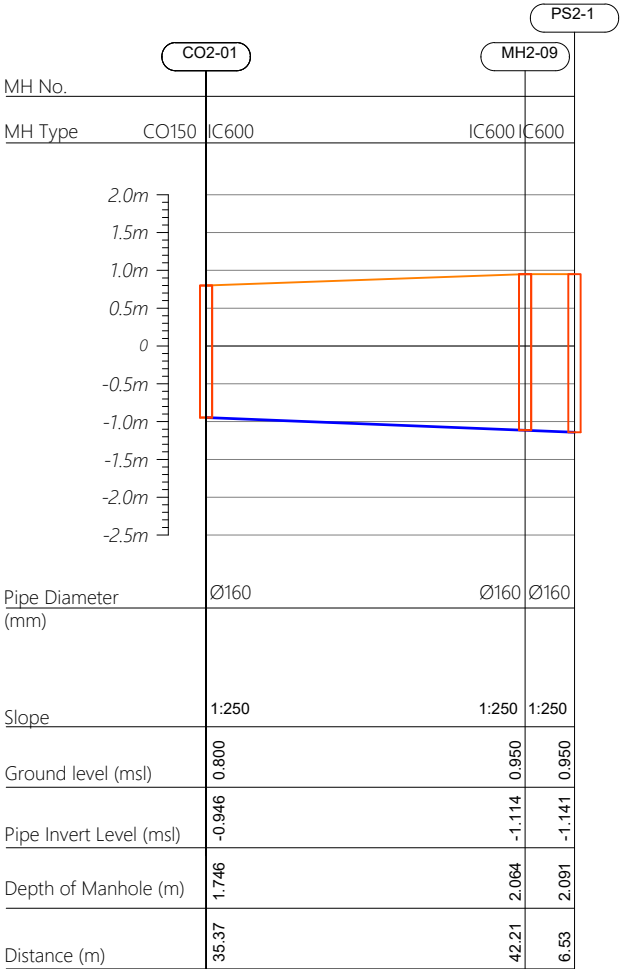
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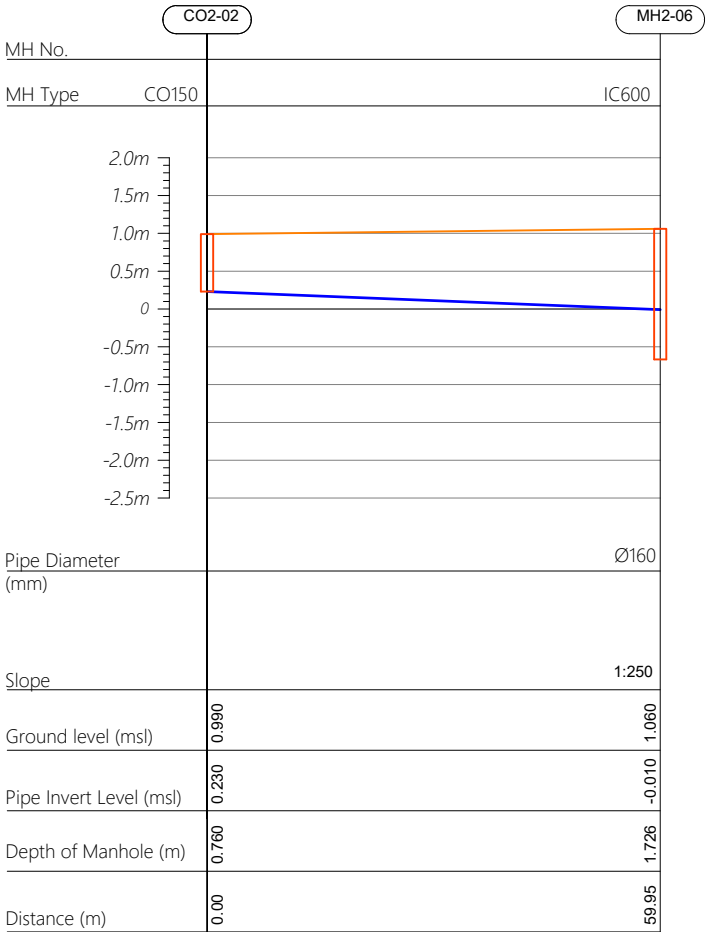
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Rev: R-01 Page: PS2-01

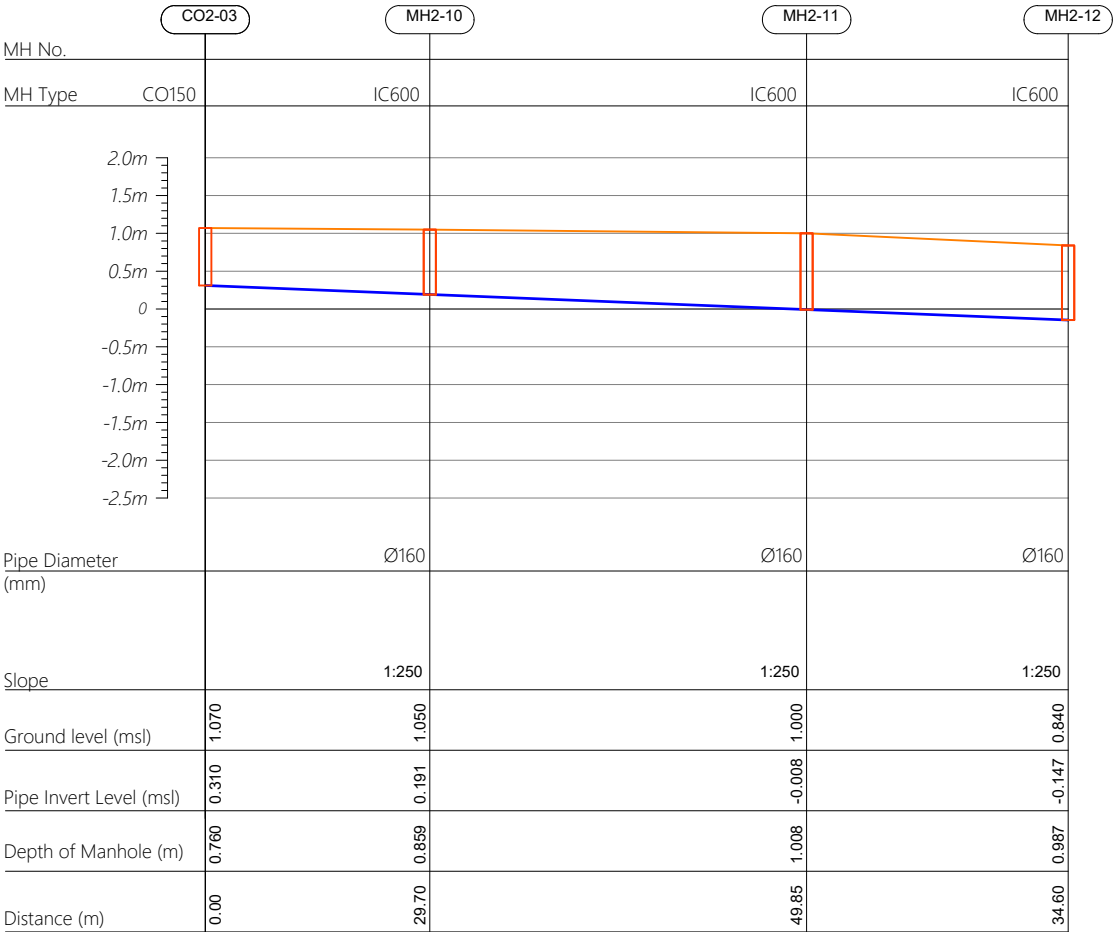
Profile 01



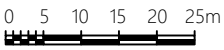
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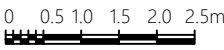
Profile 03



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M.Raiymandhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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Drawn: A.R.W Checked: M.S.S

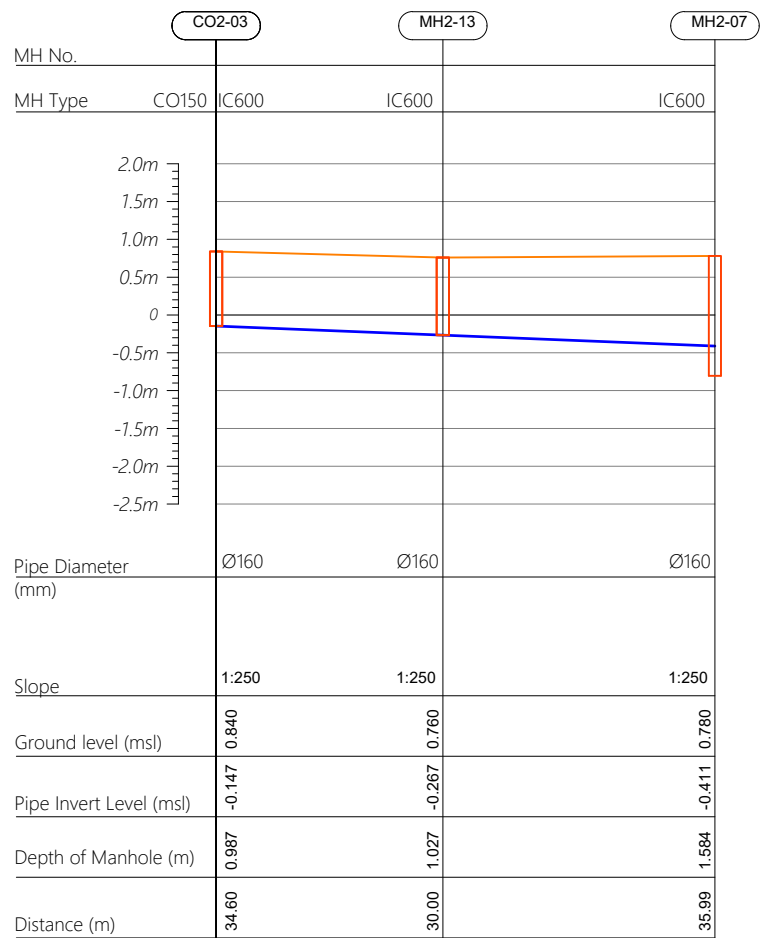
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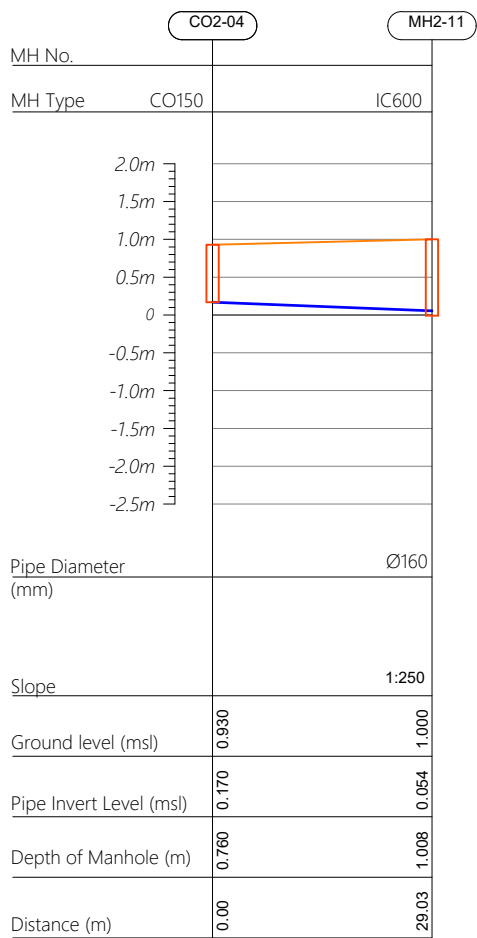
Project No: 01010101

Rev: R-01 Page: PS2-02

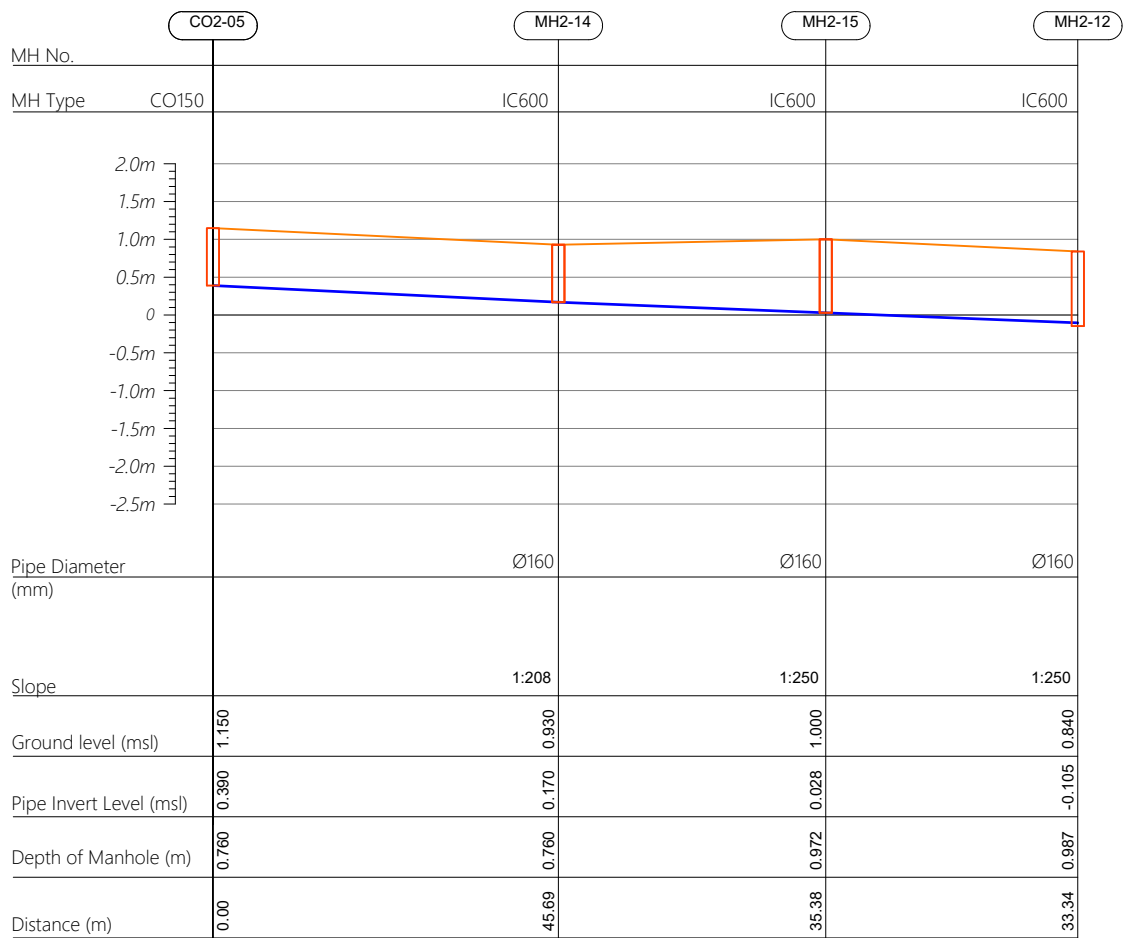
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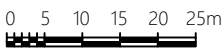
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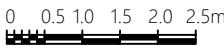
Profile 05



HORIZONTAL SCALE



VERTICAL SCALE



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
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Client:
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Drawn: A.R.W Checked: M.S.S

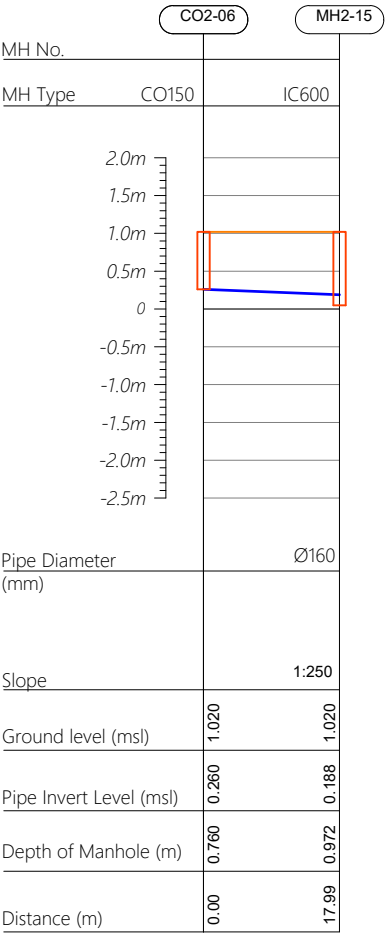
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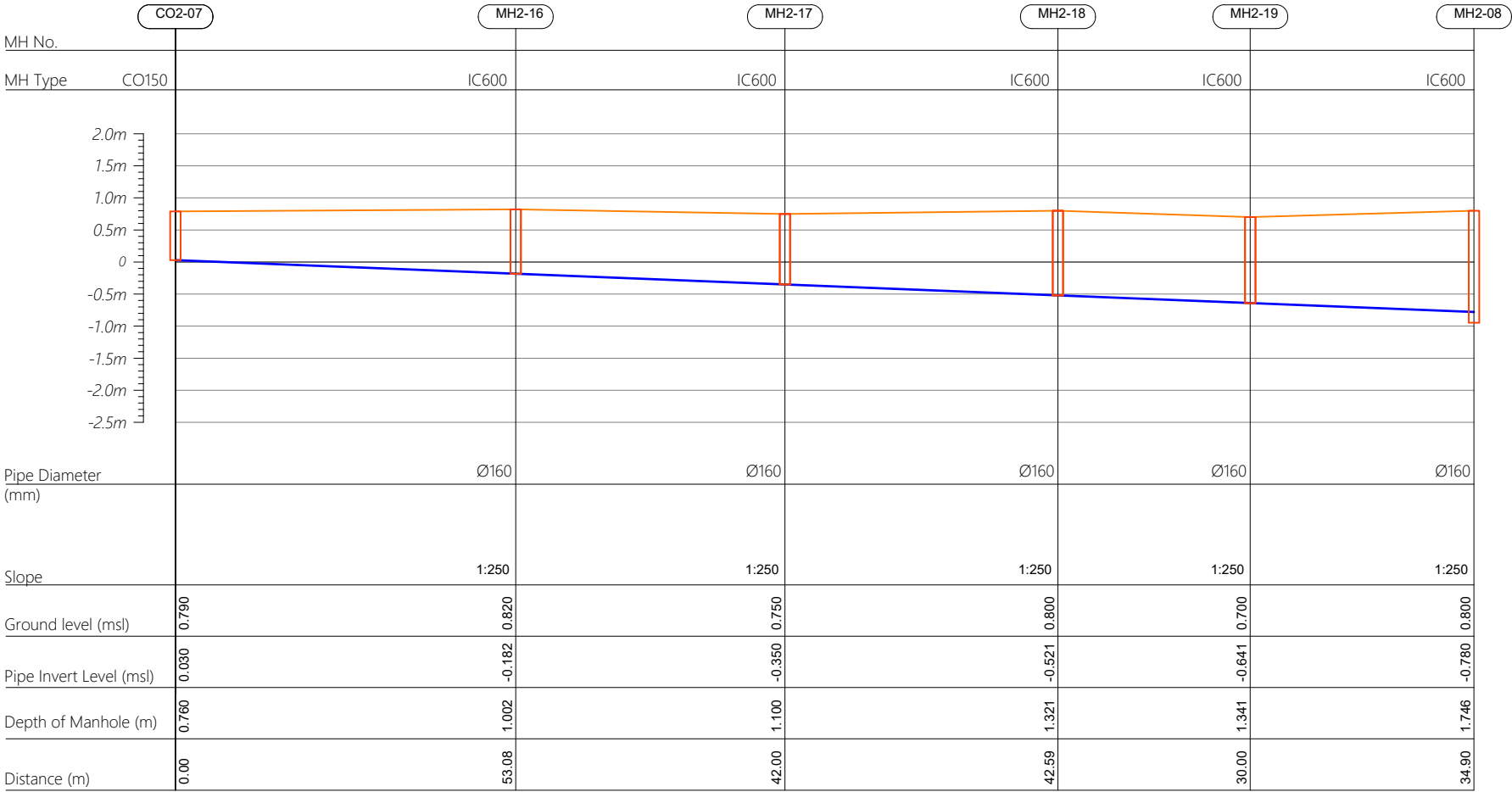
Project No: 01010101

Rev: R-01 Page: PS2-03

Profile 06



Profile 07



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
**Consultancy Services for Survey,
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6 islands, Maldives - Package 5**

Sub Title:
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Client:
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Husnuheemaa Magu, Male', Maldives



Drawn: A.R.W

Checked: M.S.S

Designed: F.I.A

Approved: I.W

Date: Aug 2020

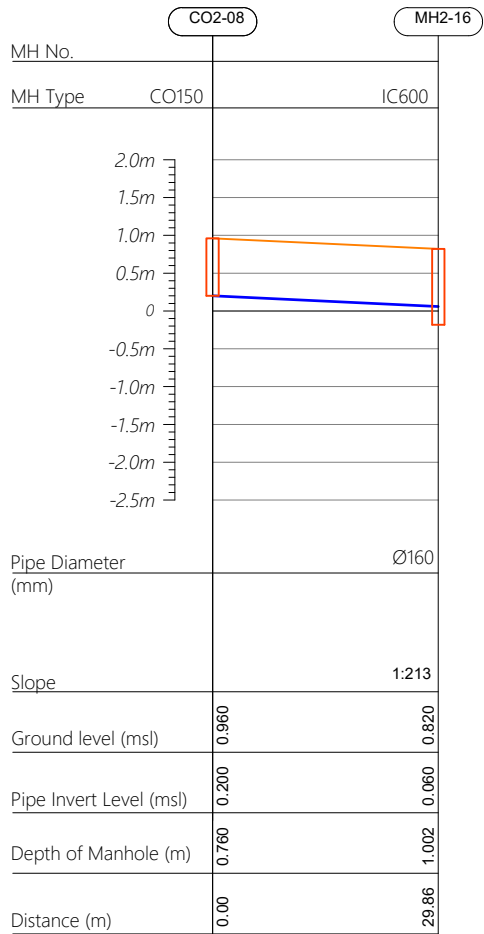
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Project No: 01010101

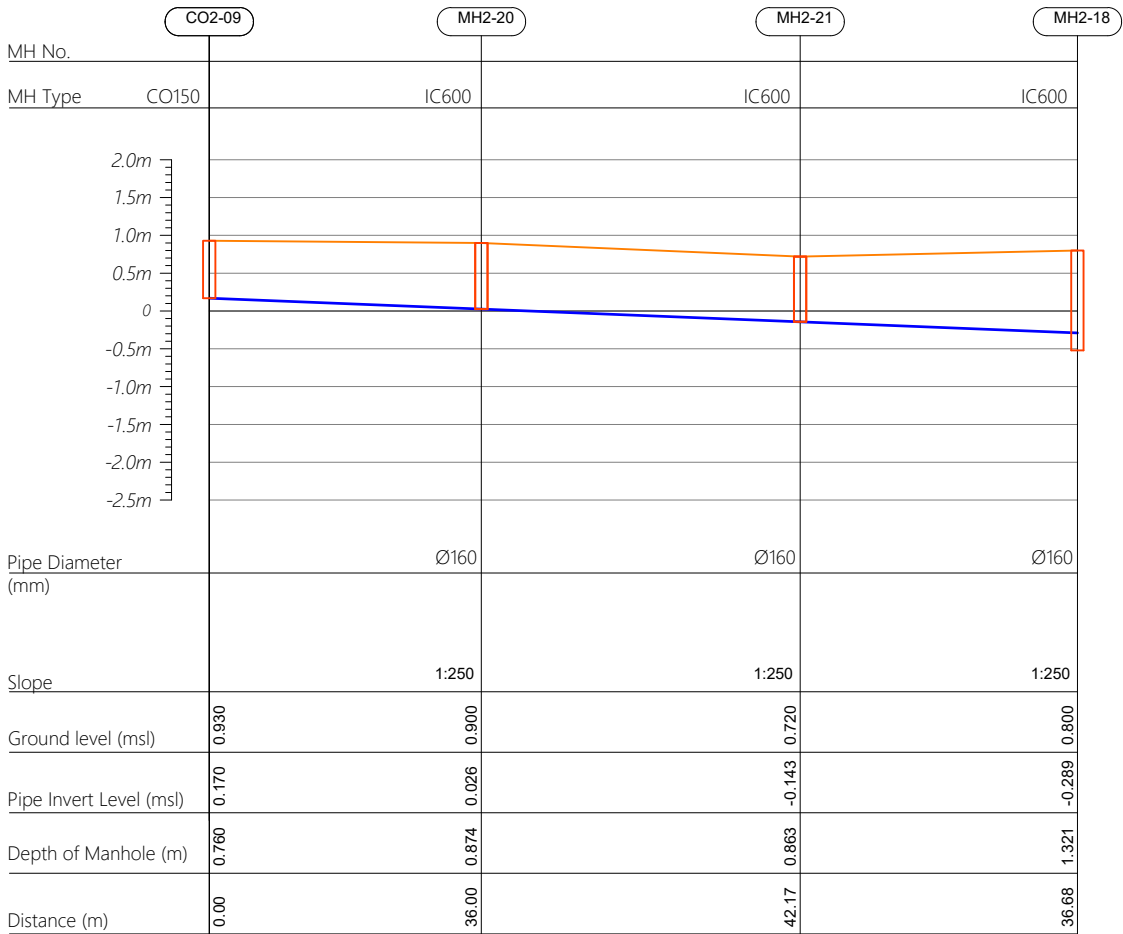
Rev: R-01

Page: PS2-04

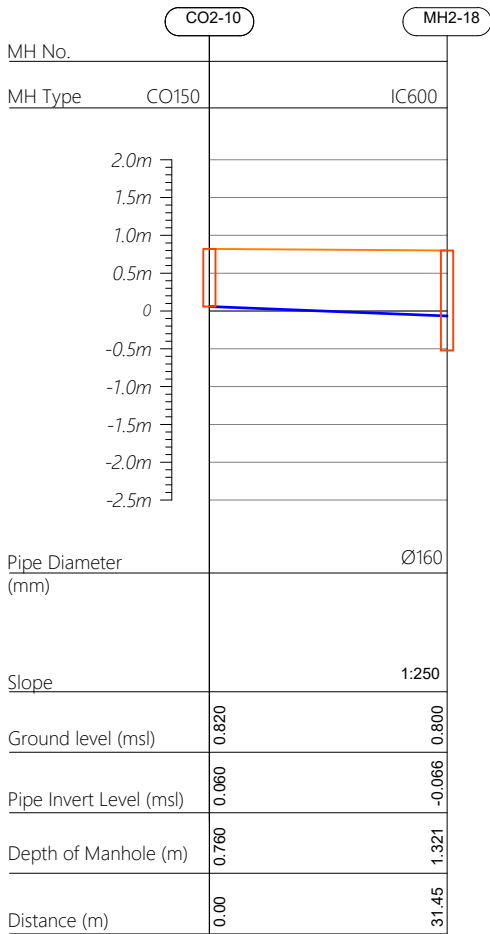
Profile 08



Profile 09



Profile 10



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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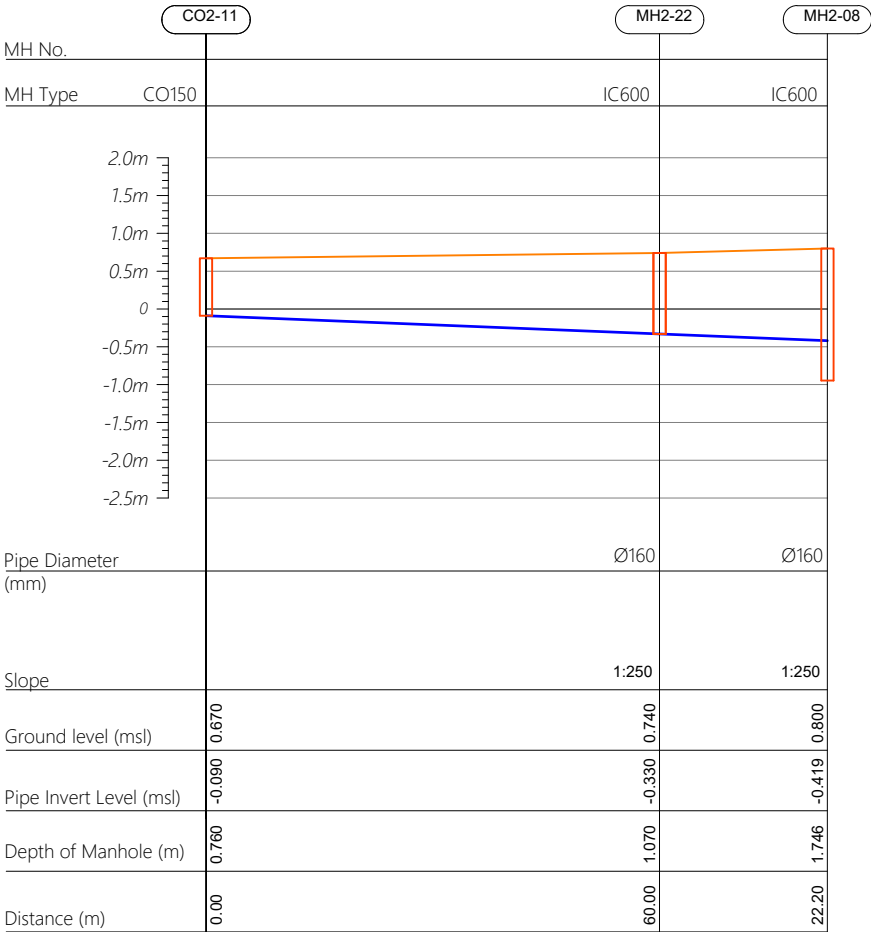
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Date: Aug 2020 SCALE (A3): 1:100

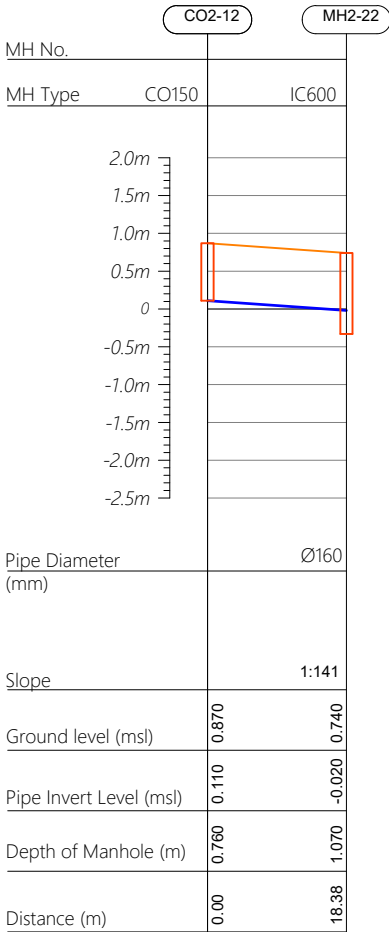
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Rev: R-01 Page: PS2-05

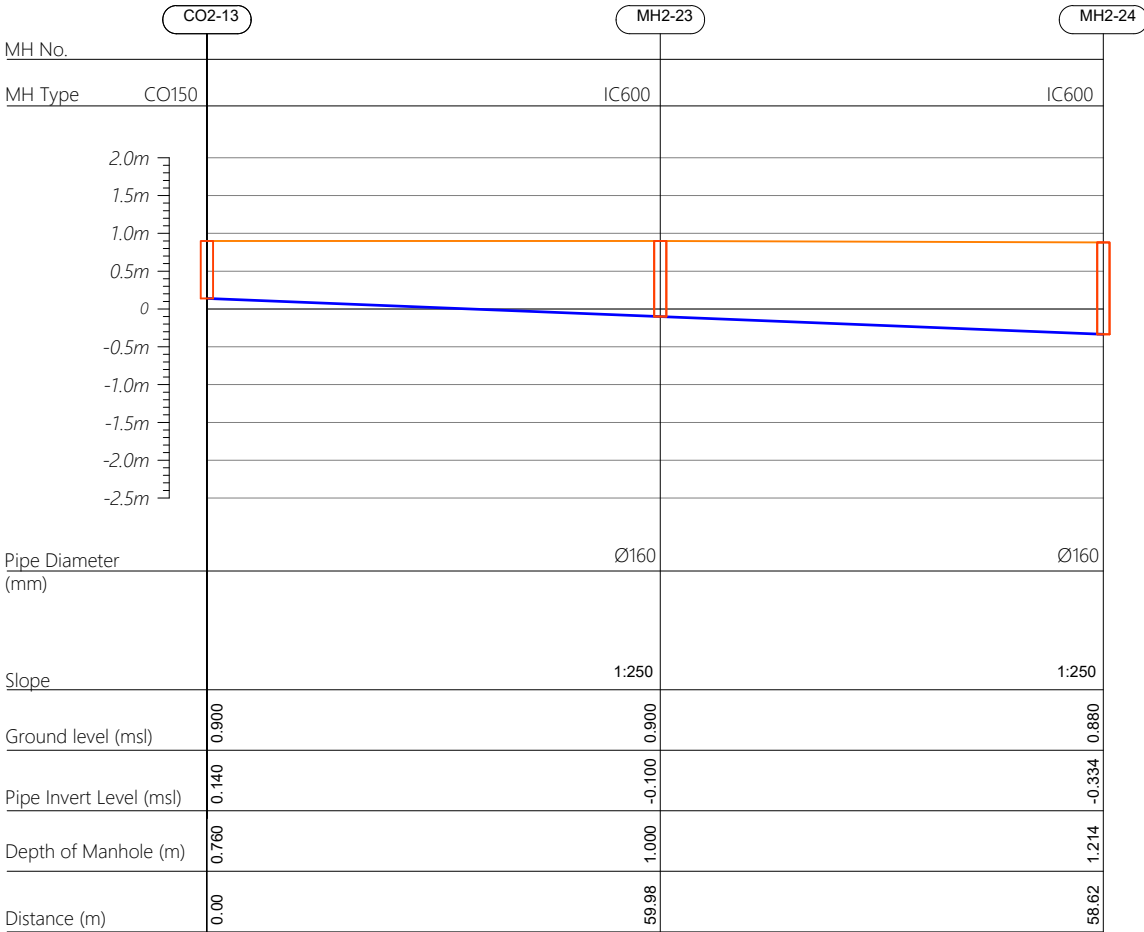
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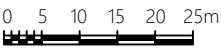
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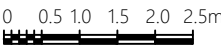
Profile 13



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Drawn: A.R.W Checked: M.S.S

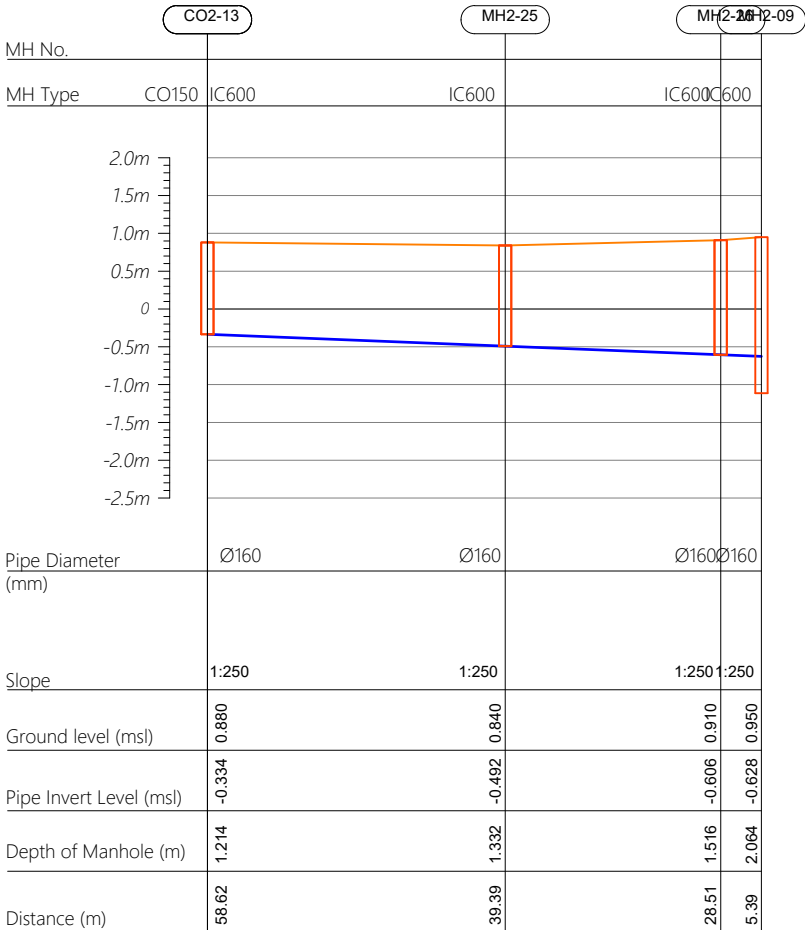
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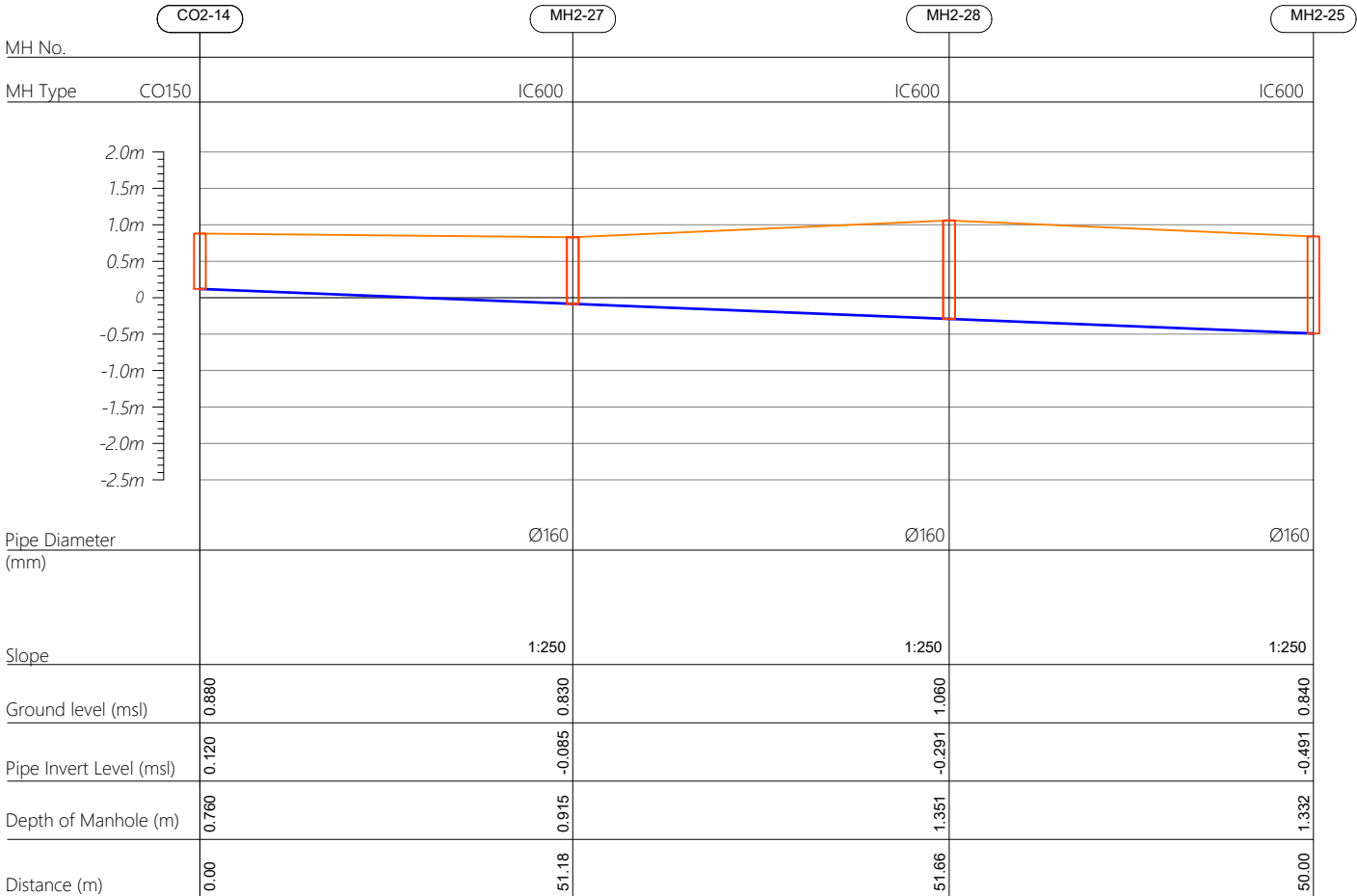
Project No: 01010101

Rev: R-01 Page: PS2-06

Profile 13



Profile 14



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title: *Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5*

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Drawn: A.R.W	Checked: M.S.S
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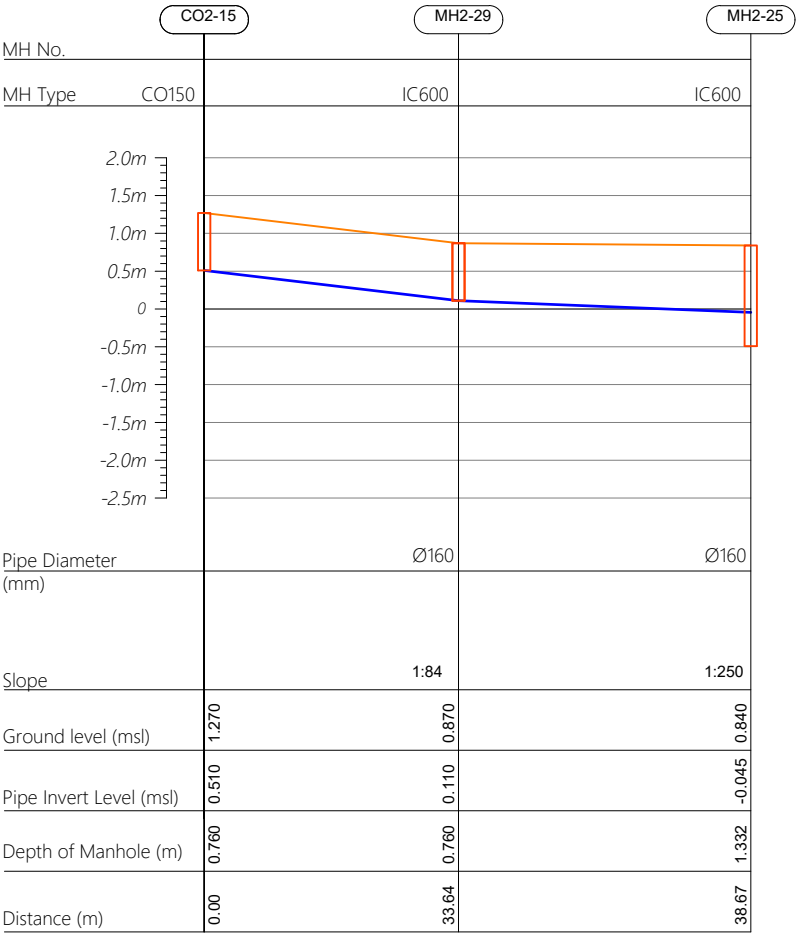
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Date: Aug 2020 | SCALE (A3): 1:100

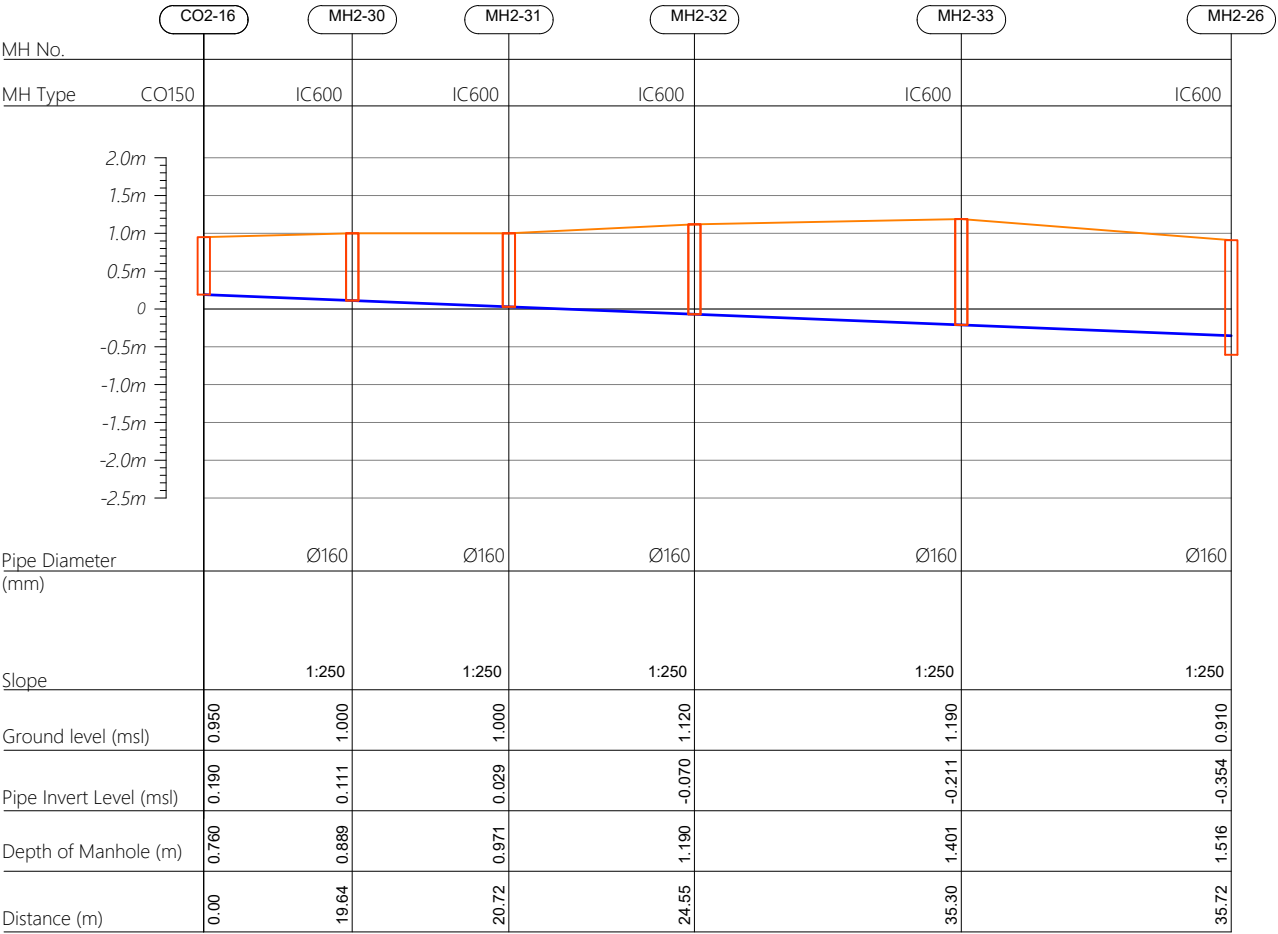
Project No: 01010101

Rev: <i>R-01</i>	Page: <i>PS2-</i>
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Profile 15



Profile 16



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 6 islands, Maldives - Package 5

Sub Title:
Sewerage System in M.Raiymandhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

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A: G. Rosary West, Huseenuheemaa Magu, Male', Maldives

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Drawn: A.R.W

Designed: F.I.A

Date: Aug 2020

Project No: 01010101

Checked: M.S.S

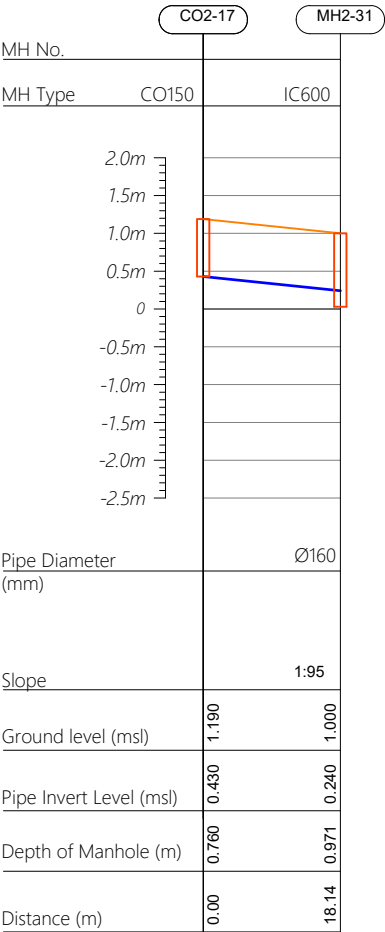
Approved: I.W

SCALE (A3): 1:100

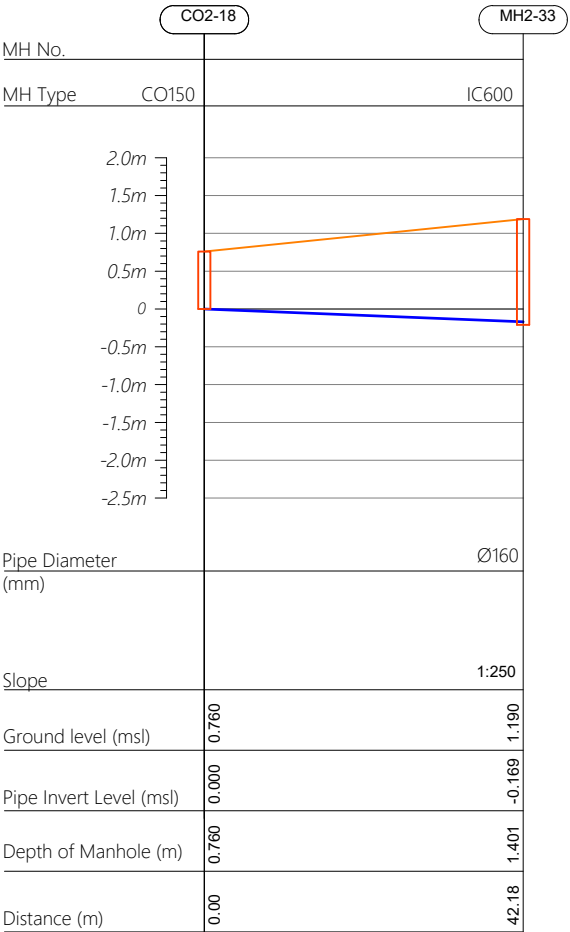
Rev: R-01

Page: **PS2-08**

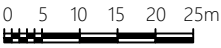
Profile 17



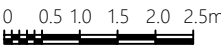
Profile 18



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Drawn: A.R.W Checked: M.S.S

Designed: F.I.A Approved: I.W

Date: Aug 2020 SCALE (A3): 1:100

Project No: 01010101

Rev: R-01 Page: PS2-09