

SECTION  
BORE HOLE DETAIL  
Scale - 1:20

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE FACILITIES

TITLE :  
TYPICAL BOREHOLE DETAIL

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

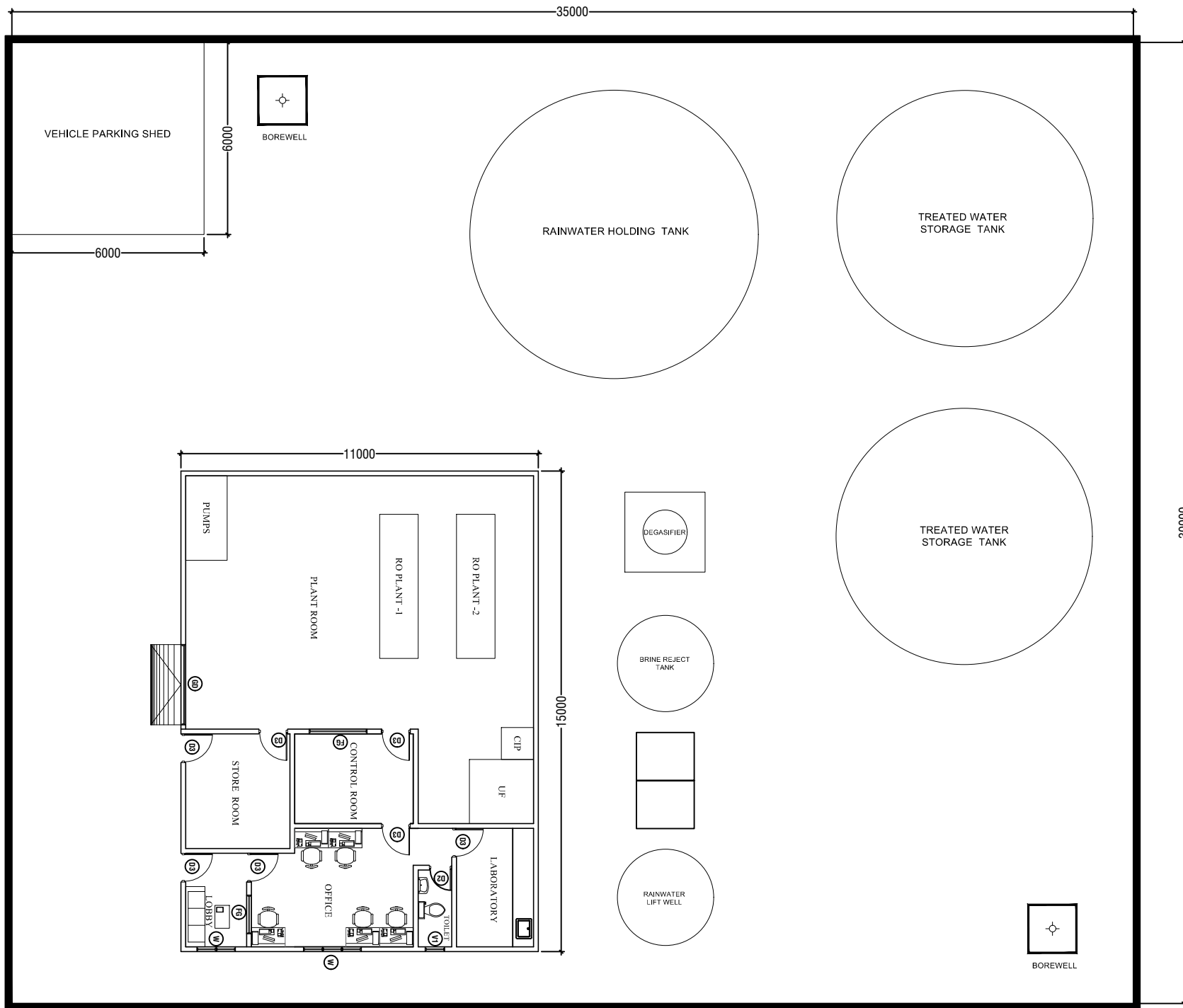
PROJECT NO :

ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE  
AMERKEE BANGU BANGU  
REPUBLIC OF MALDIVES  
TEL: 444-0100, FAX: 44-0070, WEB: www.planning.gov.mv



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES

TITLE :

TYPICAL WTP LAYOUT

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

ENGINEER :

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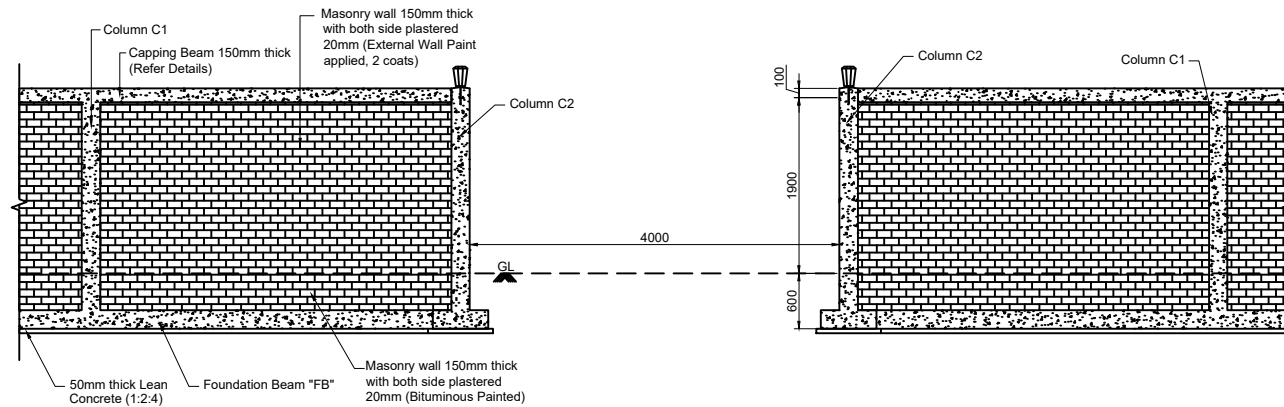
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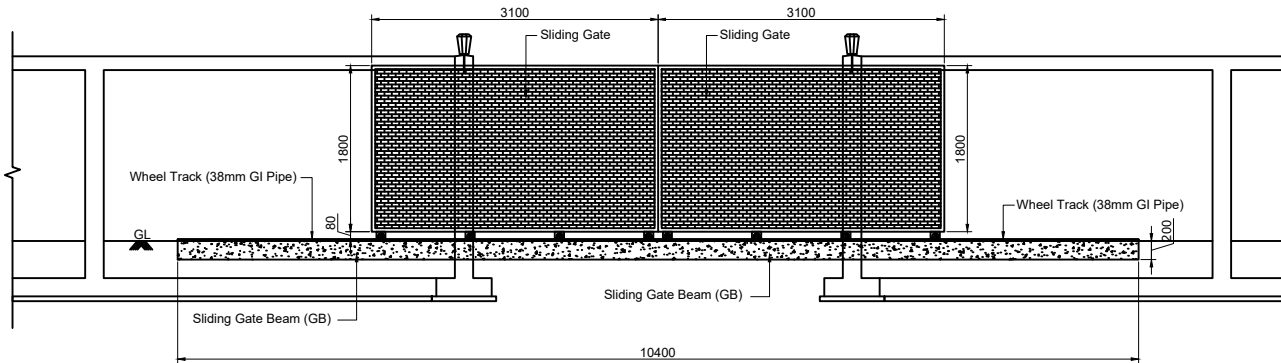


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**Wall Elevation Details**  
(Scale: 1:40)



**Gate Details**  
(Scale: 1:40)

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES

TITLE :

TYPICAL FACILITY  
BOUNDARY WALL

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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CHECKED BY :

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APPROVED BY :

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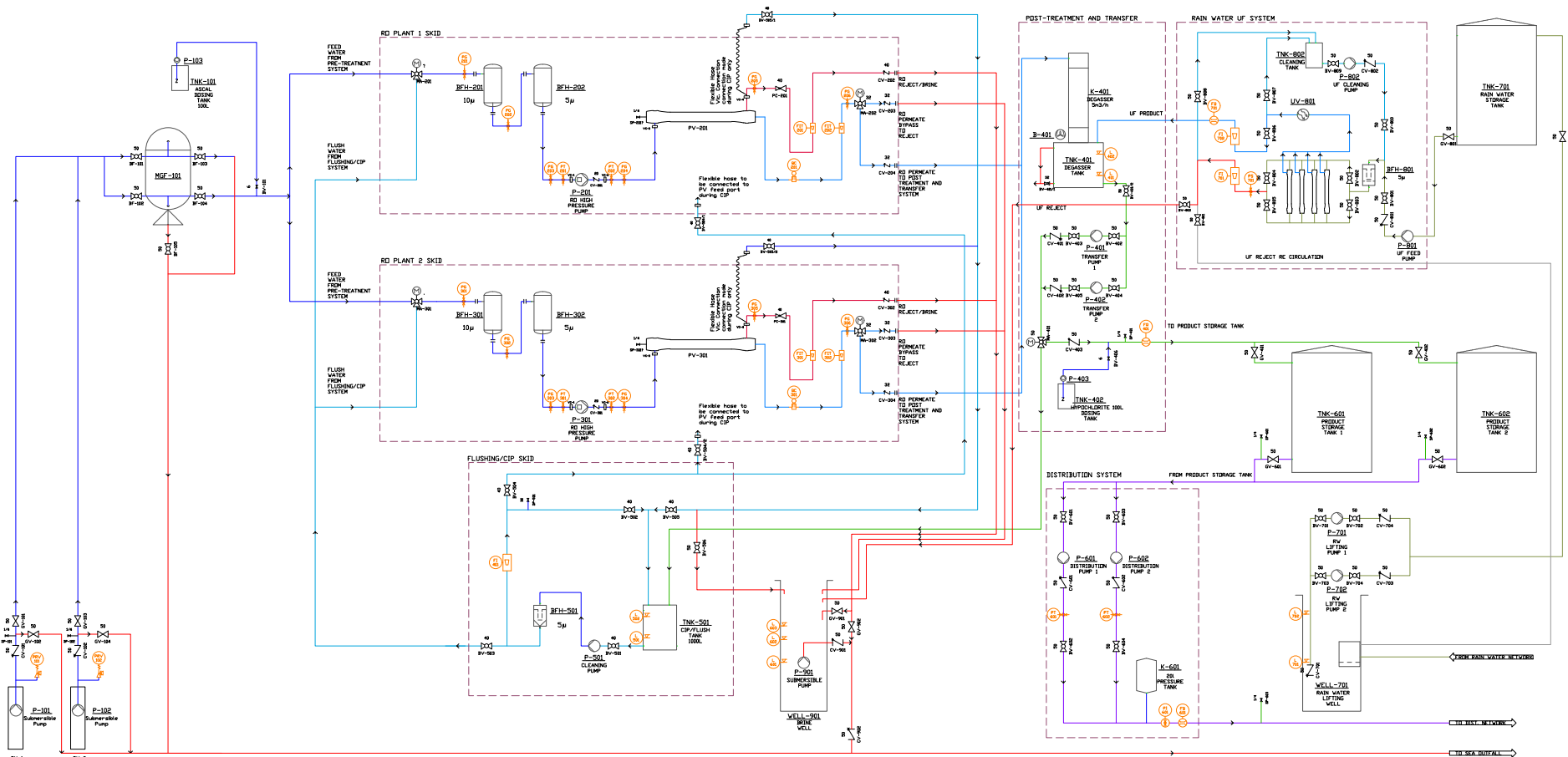
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HOUSING AND INFRASTRUCTURE

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LEGEND	ABBREVIATION INDEX
CONDUCTIVITY SENSOR	PI - PRESSURE INDICATOR
FLOW TOTALIZER	PT - PRESSURE TRANSMITTER
PRESSURE MEASUREMENT POINT	FS - FLOW METER
PLC CONTROLLER	SC - CONDUCTIVITY
FLOWMETER	CV - CHECK VALVE
BALL VALVE 1-WAY	BV - BALL VALVE
CHECK VALVE	PC - PRESSURE CONTROL
FLANGED CONNECTION	PV - PRESSURE VESSEL
COUPLING	VC - VERTICAL COUPLING
PRESSURE CONTROL VALVE	U - UNION COUPLING
VPS	SP - SAMPLE VALVE

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES

TITLE :

TYPICAL P & ID DIAGRAM

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO. :

ARCHITECT :

ENGINEER :

DRAWN BY :

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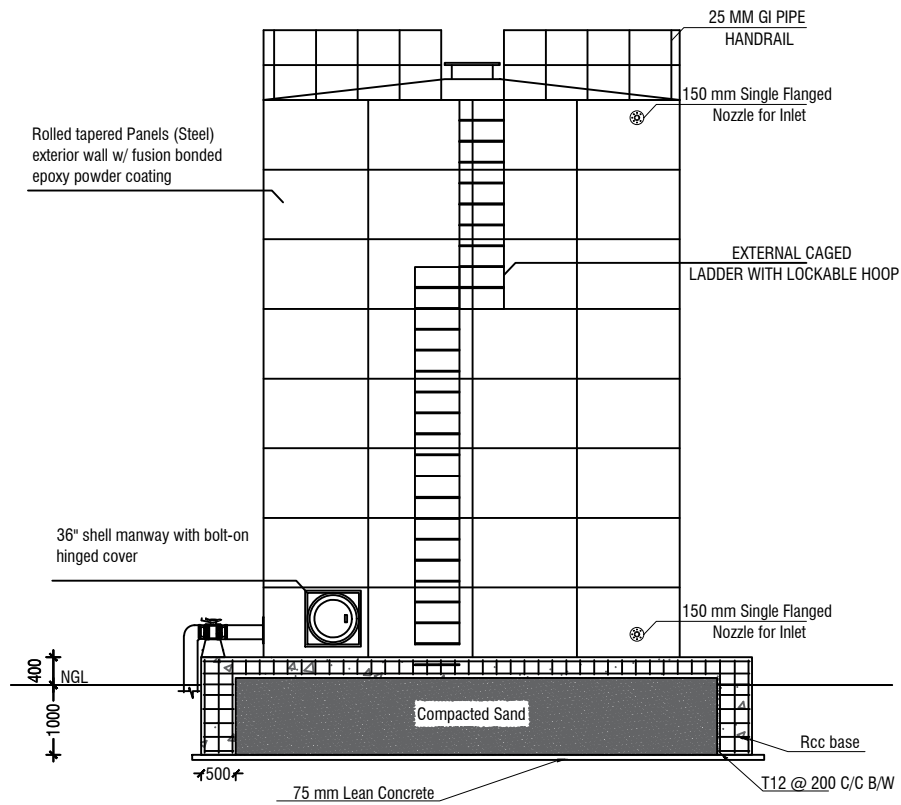
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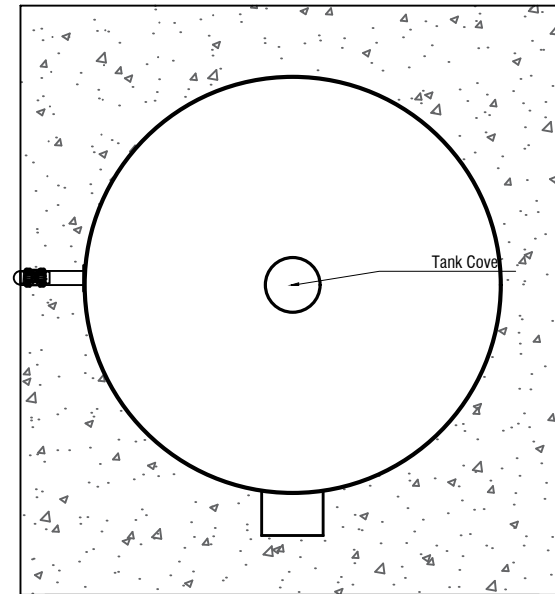


MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

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TEL: 603-2011-1000, FAX: 603-2011-1001, WEB: www.nationalplanning.gov.my



**TREATED WATER/RAINWATER STORAGE TANK**



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACIL

TITLE :

TYPICAL STORAGE TANK

CLIENT :

MINISTRY OF NATIONAL  
PLANNING, HOUSING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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CHECKED BY :

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APPROVED BY :

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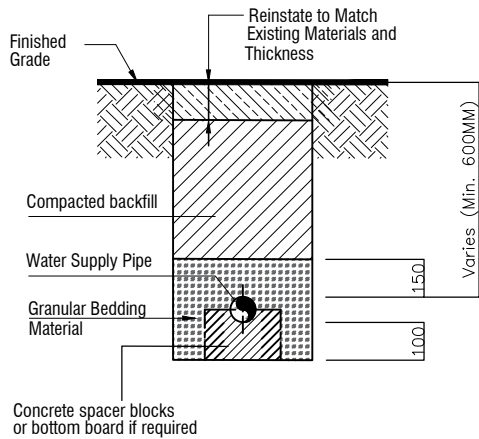
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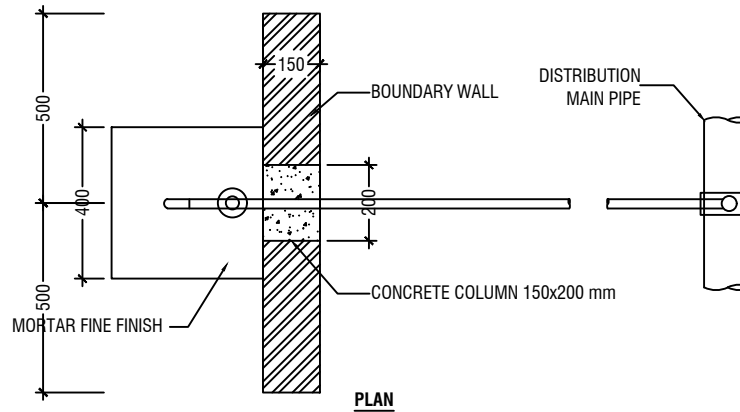


MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

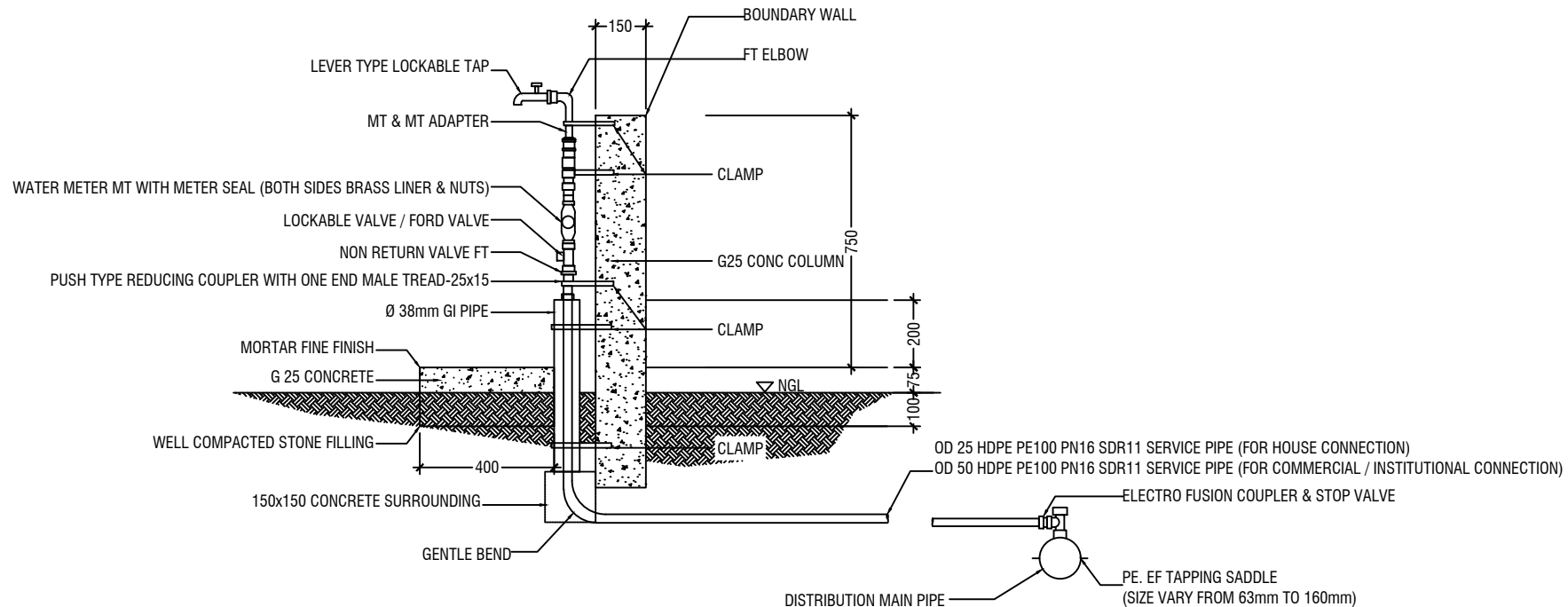
AMERKEE BANGU BANGU  
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TEL: 444-0100, FAX: 44-0101, WEB: www.planing.gov.mv



TYPICAL PIPE TRENCH



HOUSE CONNECTION DETAIL



## WATER SUPPLY HOUSE CONNECTION

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES

TITLE :

TYPICAL WATER SUPPLY  
CONNECTION

CLIENT :

MINISTRY OF NATIONAL  
PLANNING, HOUSING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

ENGINEER :

DRAWN BY :

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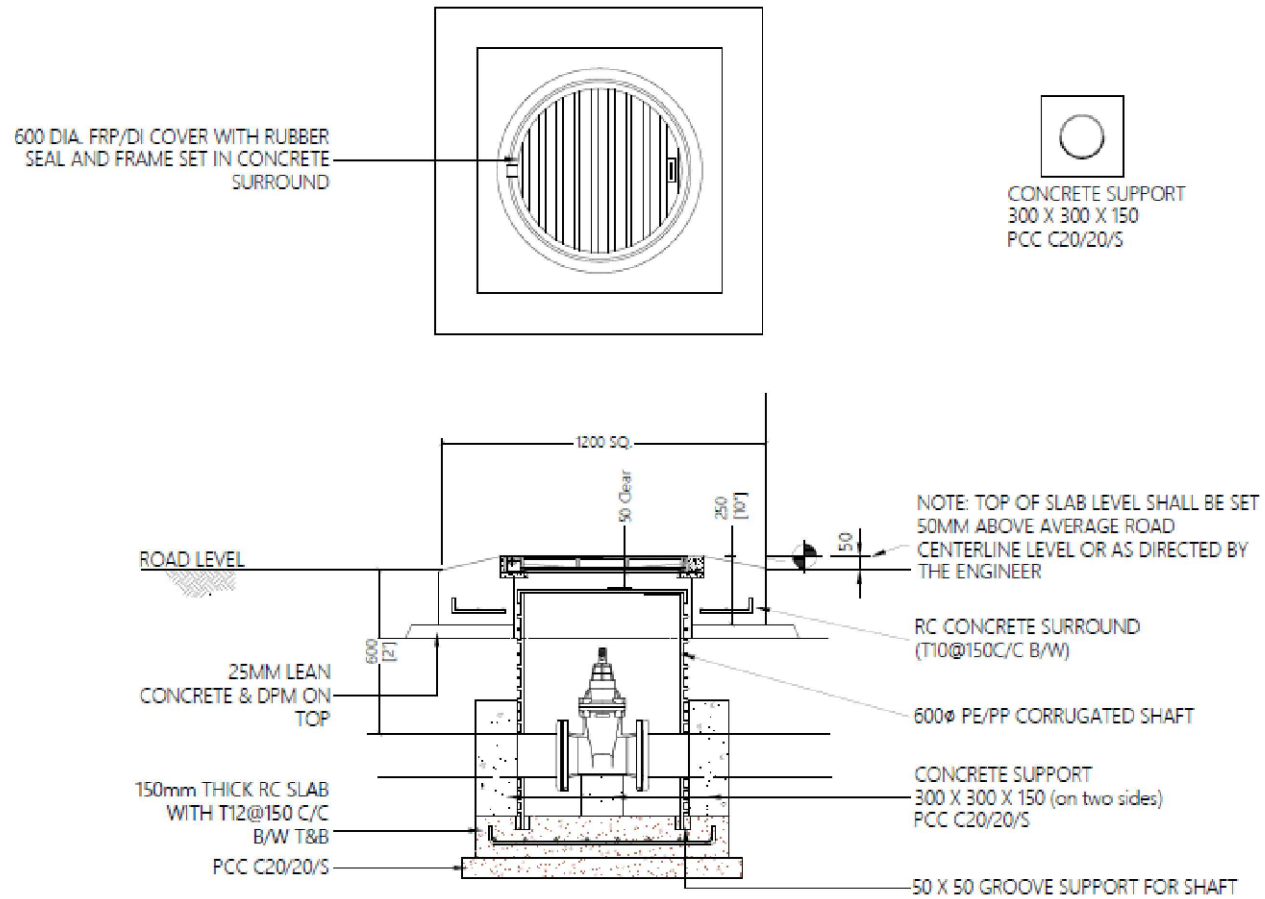
DWG NO :

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MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMEREE BANGU BALE  
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TEL: 4440700, 4440800, 4440801, 4440802, 4440803, 4440804, 4440805, 4440806, 4440807, 4440808, 4440809, 4440810, 4440811, 4440812, 4440813, 4440814, 4440815, 4440816, 4440817, 4440818, 4440819, 4440820, 4440821, 4440822, 4440823, 4440824, 4440825, 4440826, 4440827, 4440828, 4440829, 4440830, 4440831, 4440832, 4440833, 4440834, 4440835, 4440836, 4440837, 4440838, 4440839, 4440840, 4440841, 4440842, 4440843, 4440844, 4440845, 4440846, 4440847, 4440848, 4440849, 4440850, 4440851, 4440852, 4440853, 4440854, 4440855, 4440856, 4440857, 4440858, 4440859, 4440860, 4440861, 4440862, 4440863, 4440864, 4440865, 4440866, 4440867, 4440868, 4440869, 4440870, 4440871, 4440872, 4440873, 4440874, 4440875, 4440876, 4440877, 4440878, 4440879, 4440880, 4440881, 4440882, 4440883, 4440884, 4440885, 4440886, 4440887, 4440888, 4440889, 4440890, 4440891, 4440892, 4440893, 4440894, 4440895, 4440896, 4440897, 4440898, 4440899, 4440900, 4440901, 4440902, 4440903, 4440904, 4440905, 4440906, 4440907, 4440908, 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SECTION - VALVE CHAMBER

NOTES :

PROJECT :

DESIGN & BUILD FOR CONSTRUCTION OF WATER SUPPLY & SEWERAGE FACILITIES

TITLE :

TYPICAL VALVE CHAMBER

CLIENT :

MINISTRY OF NATIONAL PLANNING, HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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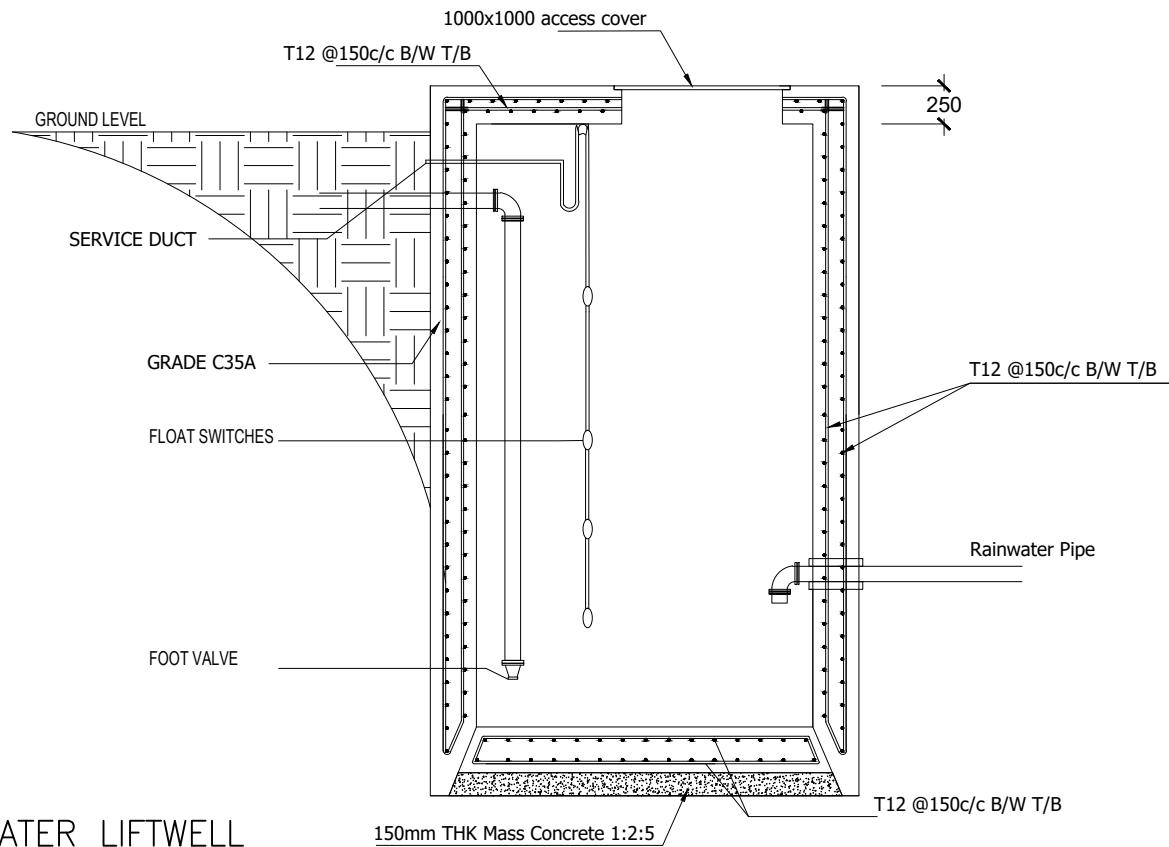
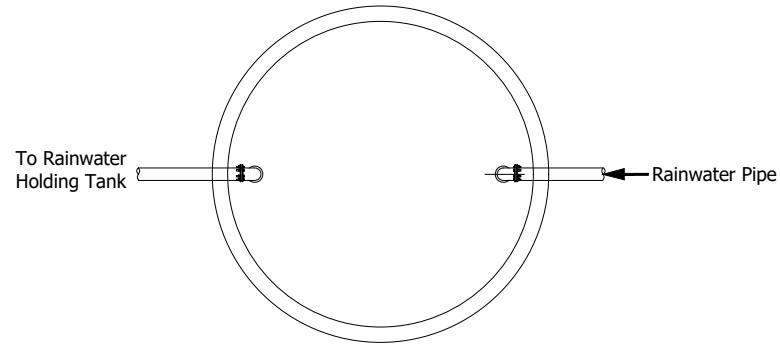
DWG NO :

A- /-



MINISTRY OF NATIONAL PLANNING, HOUSING AND INFRASTRUCTURE

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REPUBLIC OF MALAYSIA  
TEL: 603-2311 4400/4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4418, 4419, 4420, 4421, 4422, 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433, 4434, 4435, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4449, 4450, 4451, 4452, 4453, 4454, 4455, 4456, 4457, 4458, 4459, 4460, 4461, 4462, 4463, 4464, 4465, 4466, 4467, 4468, 4469, 4470, 4471, 4472, 4473, 4474, 4475, 4476, 4477, 4478, 4479, 4480, 4481, 4482, 4483, 4484, 4485, 4486, 4487, 4488, 4489, 4490, 4491, 4492, 4493, 4494, 4495, 4496, 4497, 4498, 4499, 4500, 4501, 4502, 4503, 4504, 4505, 4506, 4507, 4508, 4509, 4510, 4511, 4512, 4513, 4514, 4515, 4516, 4517, 4518, 4519, 4520, 4521, 4522, 4523, 4524, 4525, 4526, 4527, 4528, 4529, 4530, 4531, 4532, 4533, 4534, 4535, 4536, 4537, 4538, 4539, 4540, 4541, 4542, 4543, 4544, 4545, 4546, 4547, 4548, 4549, 4550, 4551, 4552, 4553, 4554, 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563, 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RAINWATER LIFTWELL  
NTS

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE FACILITIES

TITLE :  
TYPICAL RAINWATER LIFTWELL

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

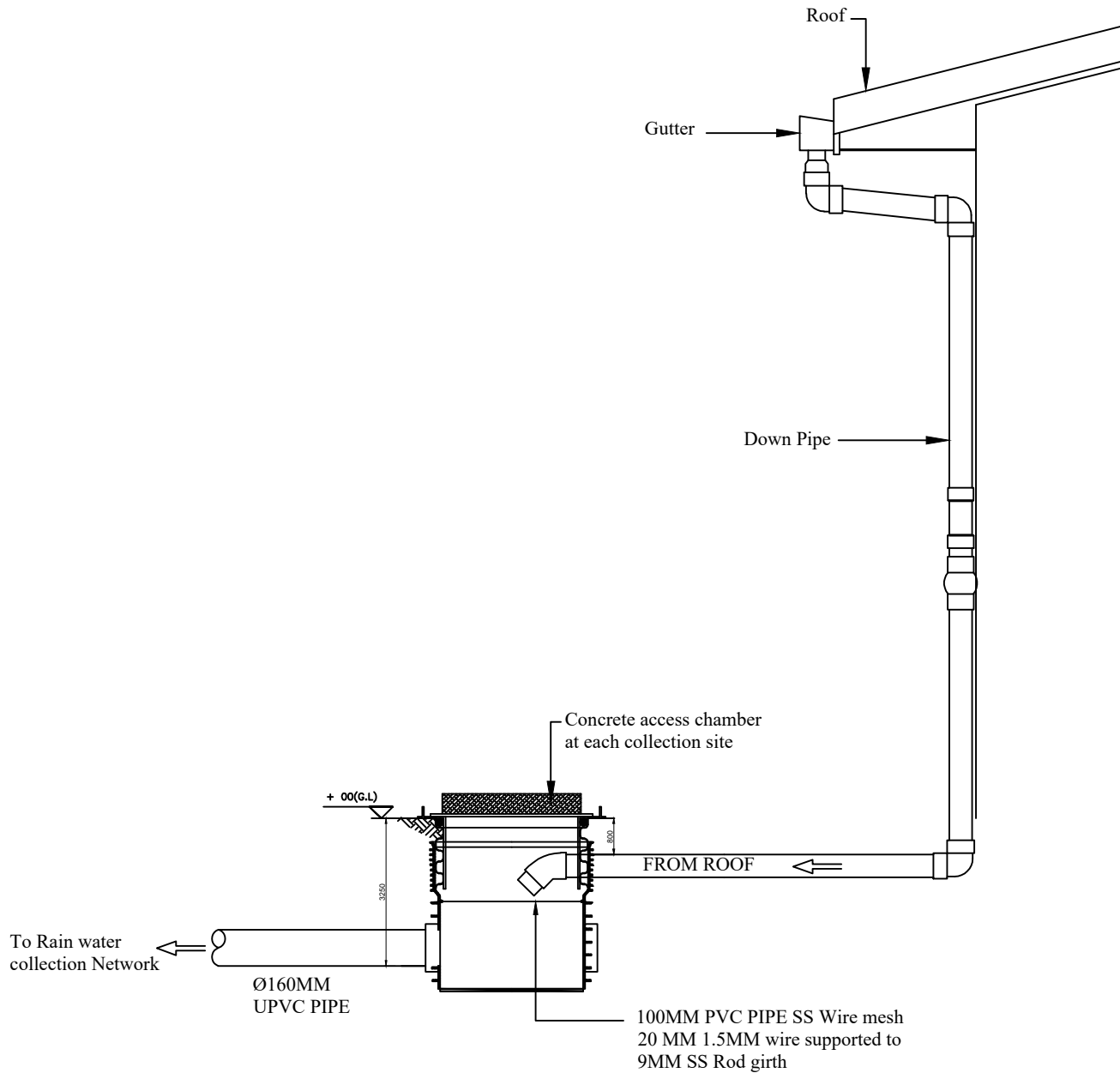
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE  
AMERKEE BANGU BANGU  
REPUBLIC OF MALDIVES  
TEL: 4444700, 4444400/01, 00800; WEB: www.planning.gov.mv





## FIRST FLUSH MECHANISM

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES

TITLE :

TYPICAL DOWNTAKE  
ARRANGEMENT

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

-

DRAWN BY :

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CHECKED BY :

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APPROVED BY :

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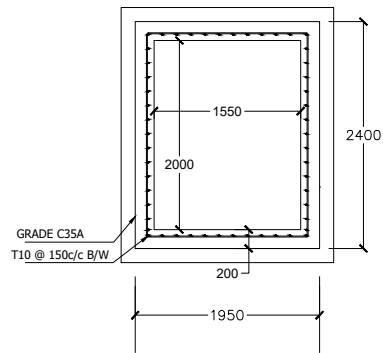
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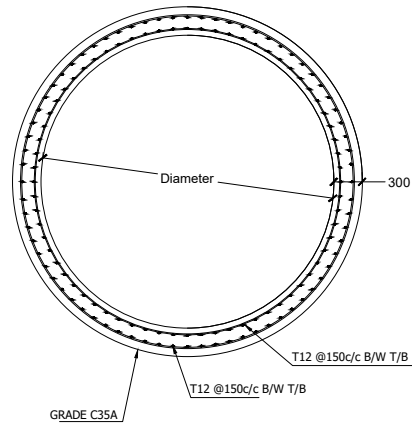


MINISTRY OF NATIONAL PLANNING,  
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AMEREE BAHU BAHU  
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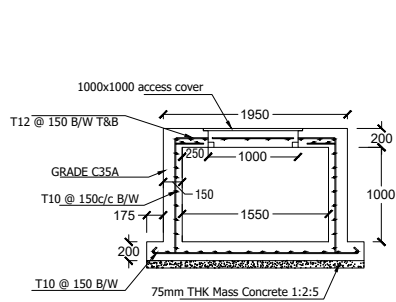


PLAN



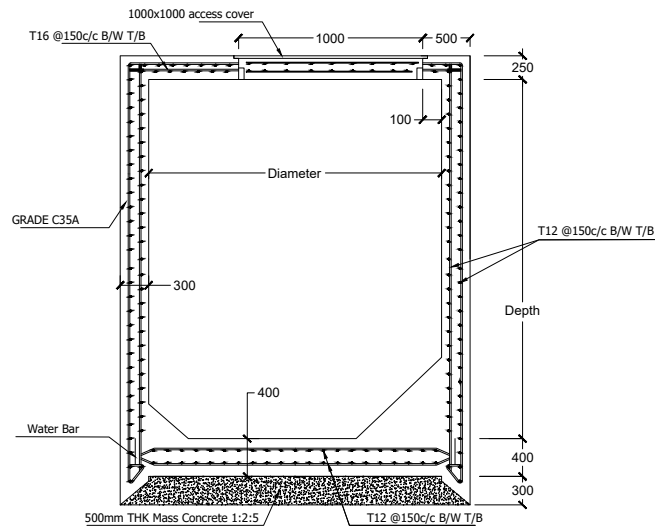
Note:

1. All structural concrete shall be of grade C35A.
2. All castings shall be done using Sulpahte Resistant Portland Cement to BS 4027:1996.
3. All structural reinforcement shall be epoxy coating of non-pre-stressed reinforcement to ASTM-A775/A775M.



SECTION

VALVE CHAMBER DETAIL



PUMP STATION DETAIL

PUMPING STATION STRUCTURAL DETAILS  
Scale: N.T.S

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACI

TITLE :

Typical Pump Station

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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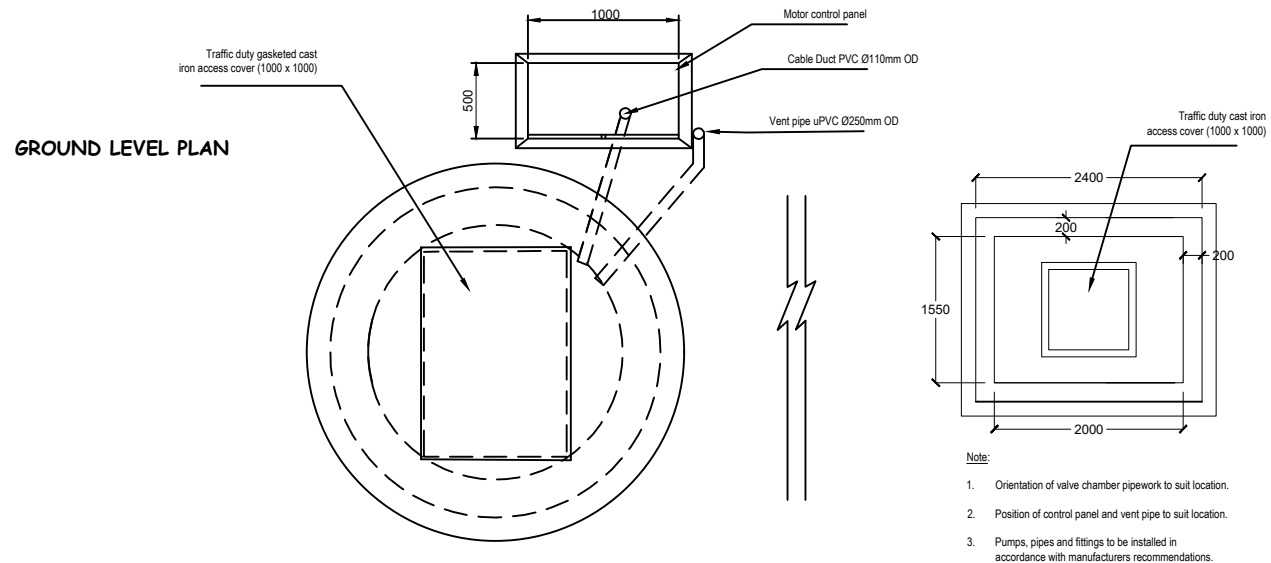
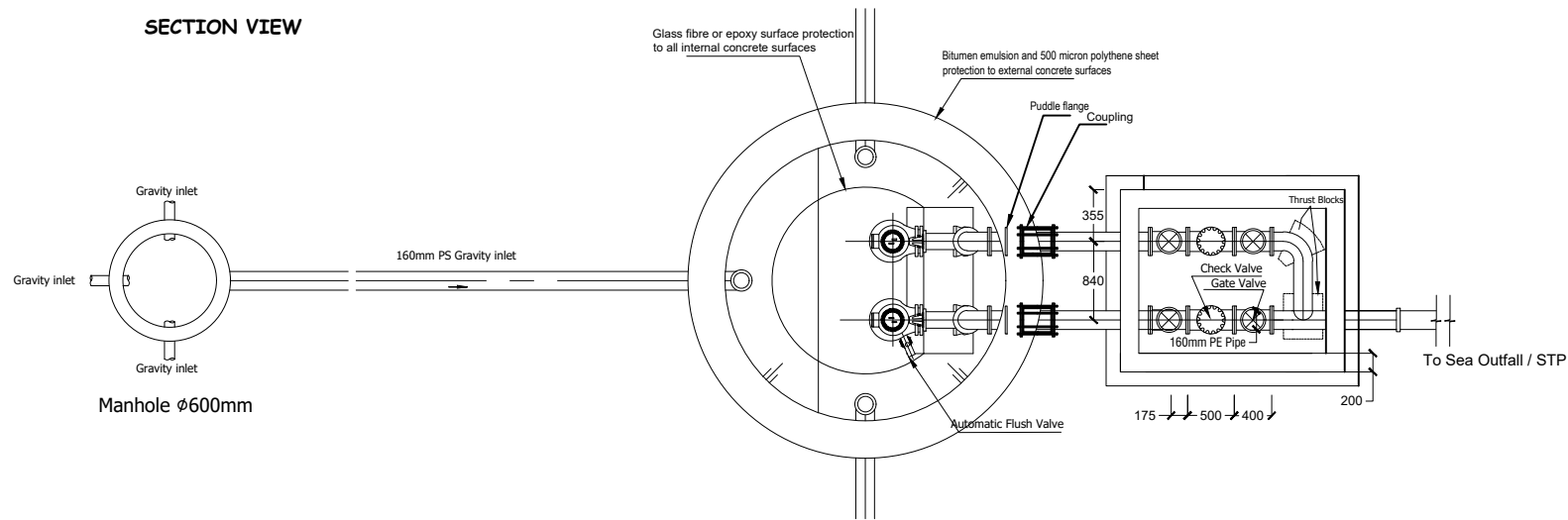
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMEREEH HANOU HANOU  
REPUBLIC OF MALDIVES  
TEL: 444-0100, 444-0001/0101, 0101; WEB: www.planning.gov.mv



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :

Typical Pump Station

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DWG NO :

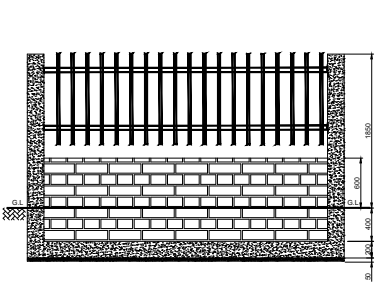
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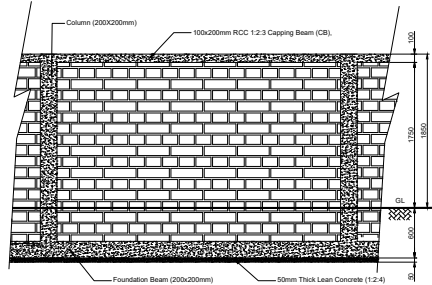


MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

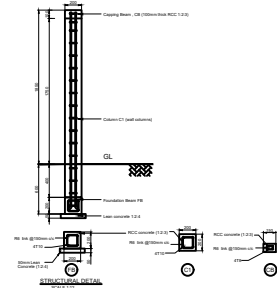
AMEREE HANU BALE  
REPUBLIC OF MALAYSIA  
TEL: 603-2070, 2040-2071, 2072; WEB: www.planing.gov.my



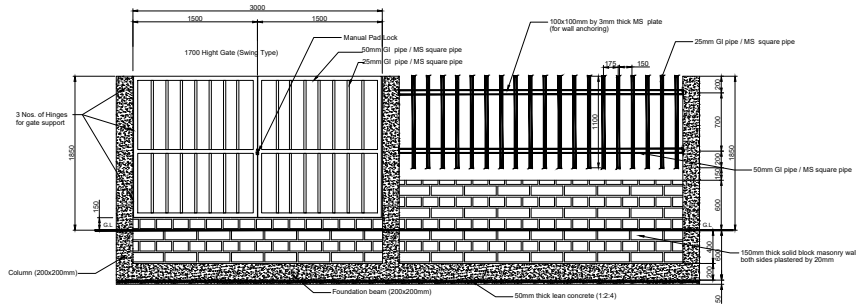
BOUNDARY WALL FENCING ALONG THE ROAD SIDE



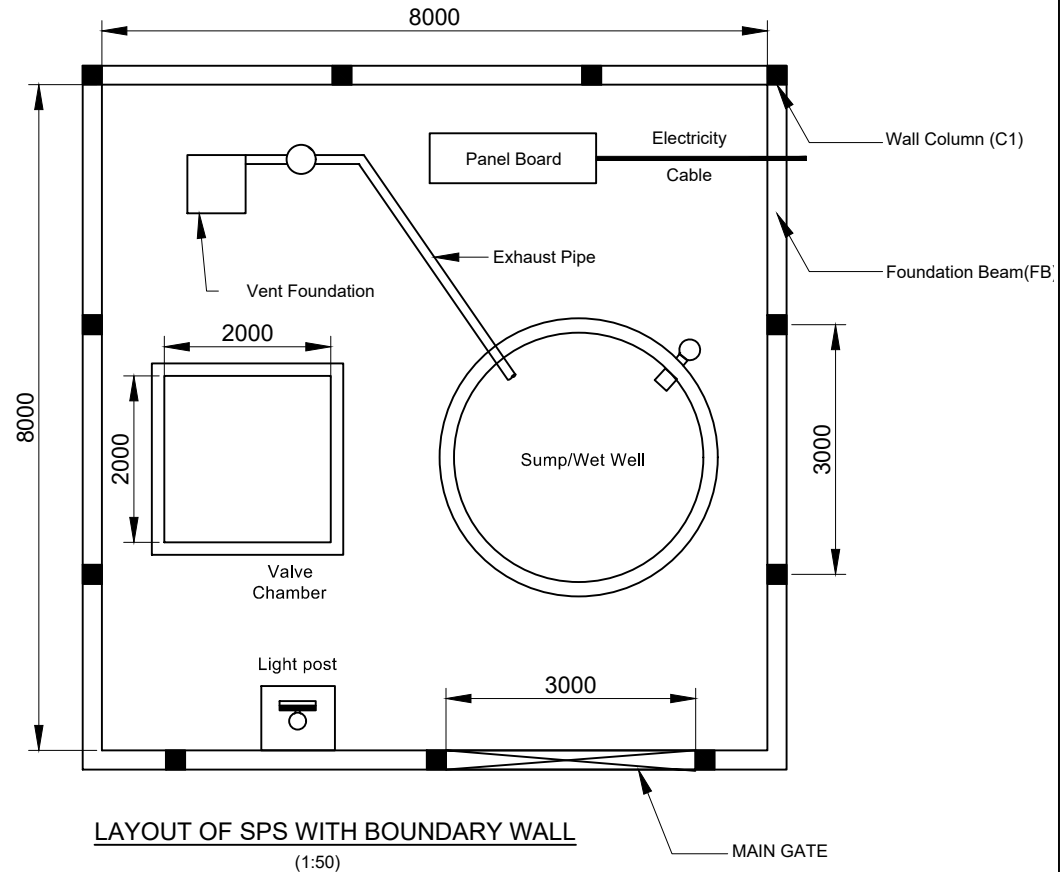
BOUNDARY WALL ALONG ADJACENT TO ANOTHER ROAD / PLOT



STRUCTURAL DETAIL



BOUNDARY WALL FENCING & STEEL GATE ELEVATION DETAILS



LAYOUT OF SPS WITH BOUNDARY WALL

(1:50)

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY AND SEWERAGE  
FACILITIES

TITLE :  
PUMP STATION PLOT  
LAYOUT

CLIENT :  
MINISTRY OF NATIONAL  
PLANNING, HOUSING &  
INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

PROJECT NO :

ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMERKEE BHADU BHALL  
HOD, OFFICE OF MANAGER  
TOL. 404/100, P.O. 404/100, NEW DELHI  
WWW.PLANING.GOV.IN

## PLAN

## SECTION

### TYPICAL HOUSE CONNECTION DETAIL

N.T.S

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :  
SEWERAGE COLLECTION SYSTEM

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

PROJECT NO :

ARCHITECT : "

ENGINEER : \*

DRAWN BY : -

CHECKED BY : \_\_\_\_\_

APPROVED BY : \_\_\_\_\_

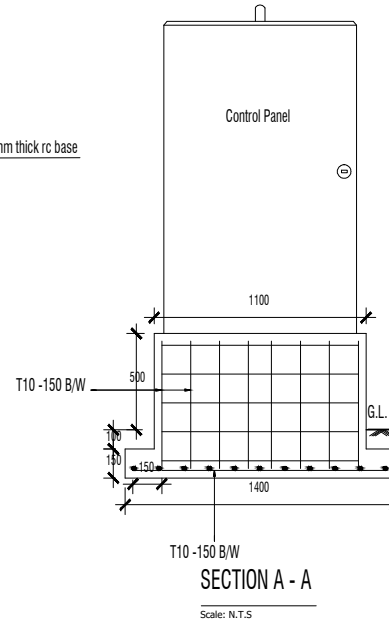
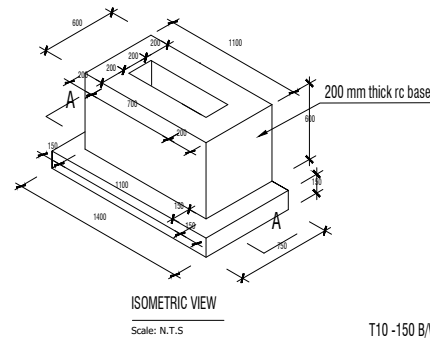
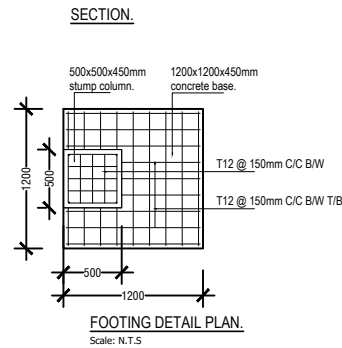
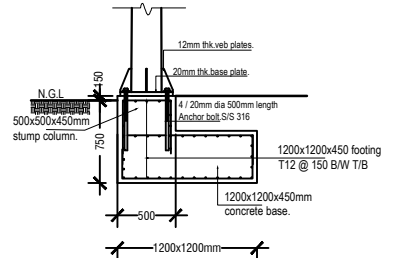
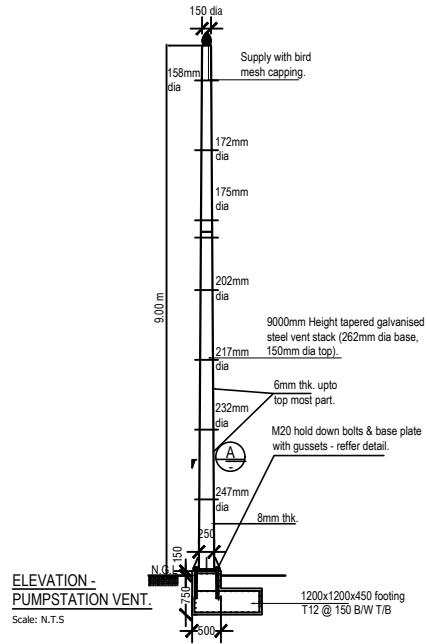
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMEENEE MAGU MALE  
REPUBLIC OF MALDIVES  
TEL: 4304700, FAX: 4304701, WEB: [www.planning.gov.mv](http://www.planning.gov.mv)



NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :  
Vent Pipe & Control Panel

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :  
AS GIVEN

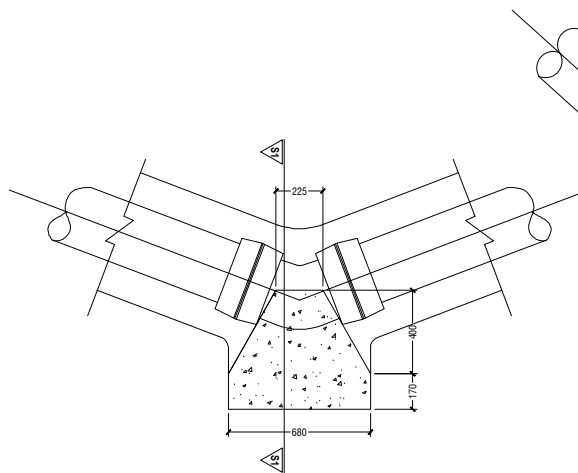
DATE :  
Nov-20

PROJECT NO :

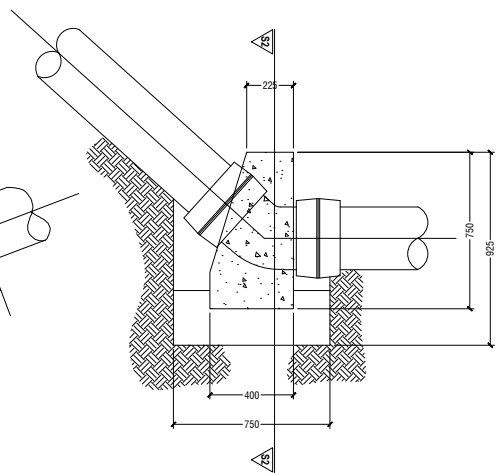
ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

A- -/-

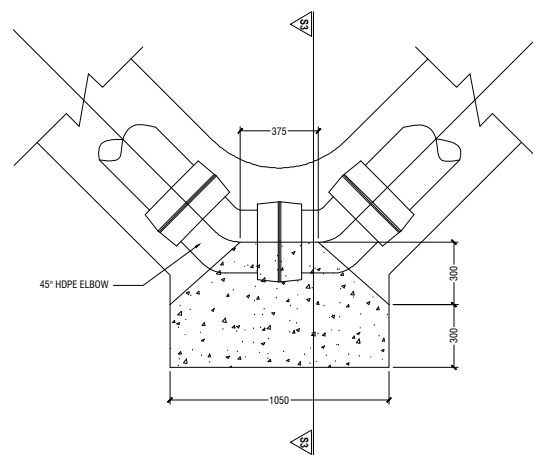
N/A - 09



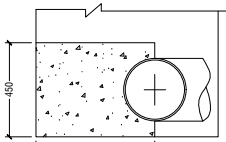
**HORIZONTAL 45° BEND**  
NTS



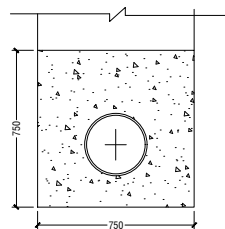
**VERTICAL 45° BEND**  
NTS



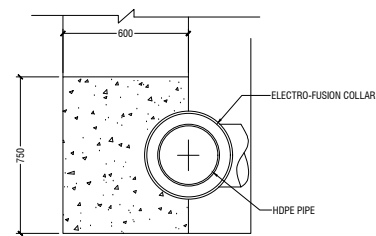
**HORIZONTAL 90° BEND**  
NTS



**SECTION S1-S1**  
NTS



**SECTION S2-S2**  
NTS



**SECTION S3-S3**  
NTS

**THRUST BLOCK DETAIL - FORCE MAINS ONLY**

SCALE 1:20  
0 0.1 0.2 0.4 0.6 0.8 1

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :  
SEWERAGE COLLECTION SYSTEM

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

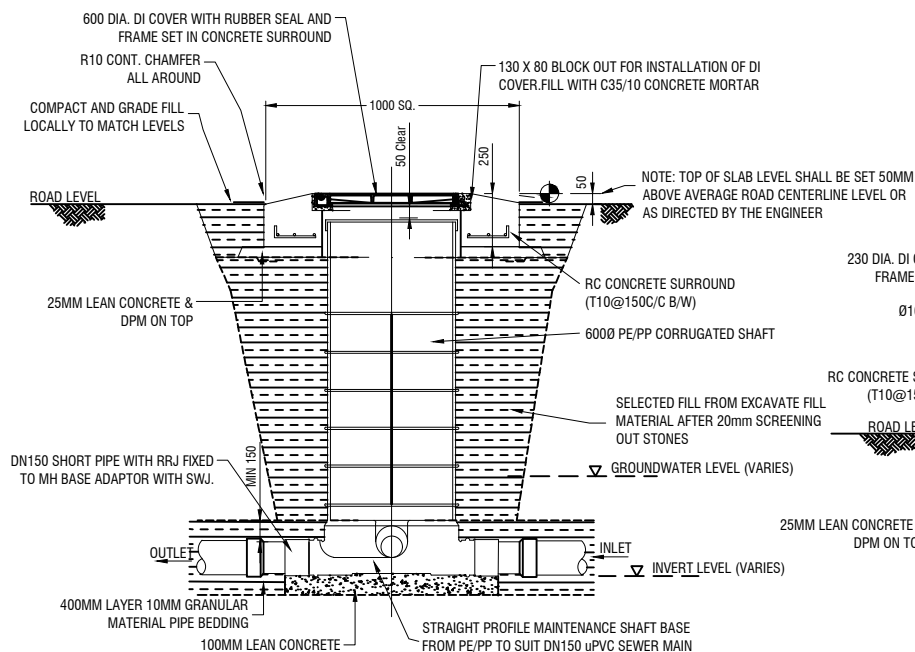
DWG NO :

A- -/-



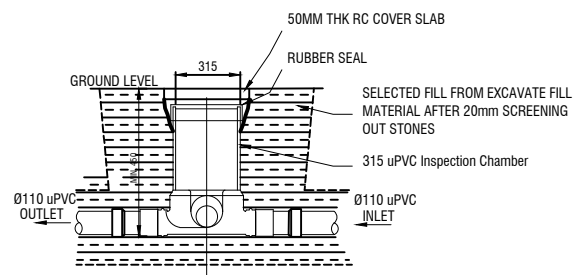
MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMERKEE HANU HALL  
REPUBLIC OF MALDIVES  
TEL: 444-0700, FAX: 44-0707, WEB: www.planning.gov.mv



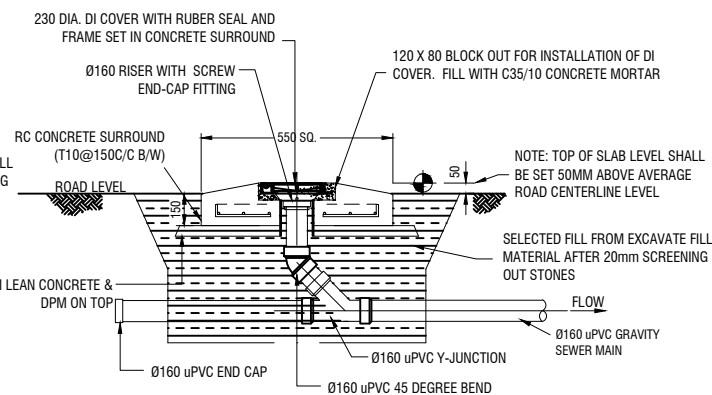
**ELEVATION - MAINTENANCE SHAFT (MH)**

Scale 1:20



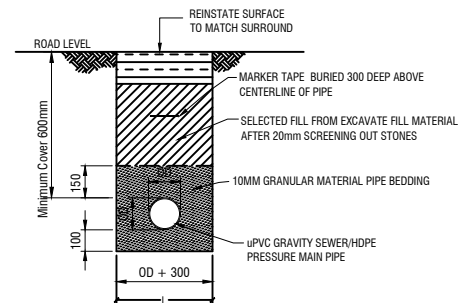
**HOUSE INSPECTION CHAMBER (IC)**

Scale 1:20



**ELEVATION - CLEANOUT (CO)**

Scale 1:20



**TRENCH & BEDDING DETAILS**

Scale 1:20

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :

SEWERAGE COLLECTION SYSTEM

CLIENT :

MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

DWG NO :

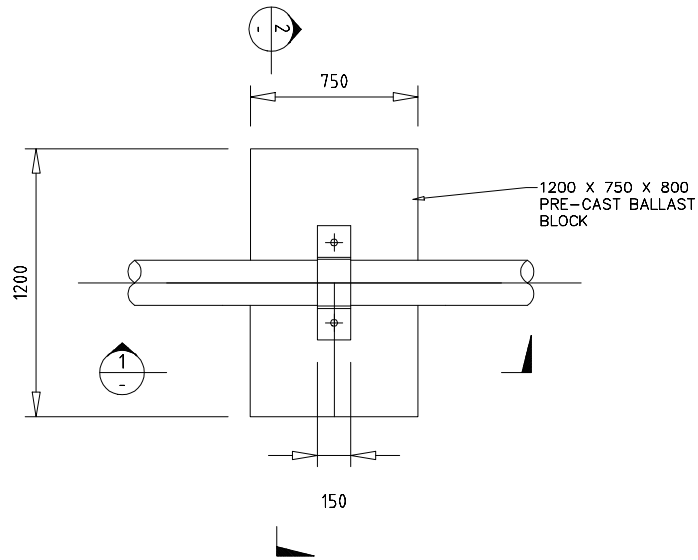
A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

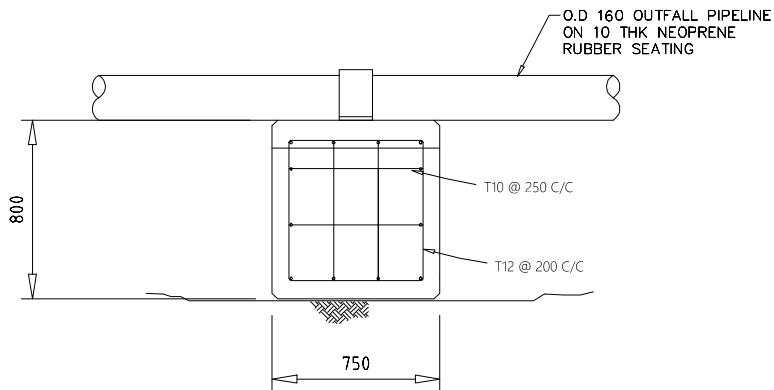
AMERKEE BANGU WALE  
REPUBLIC OF MALLESWEE  
TEL: 0400700, FAX: 0400701, WEB: www.planning.gov.mw





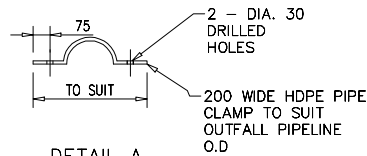
PLAN PRE-CAST BALLAST BLOCK

Scale: N.T.S



ELEVATION

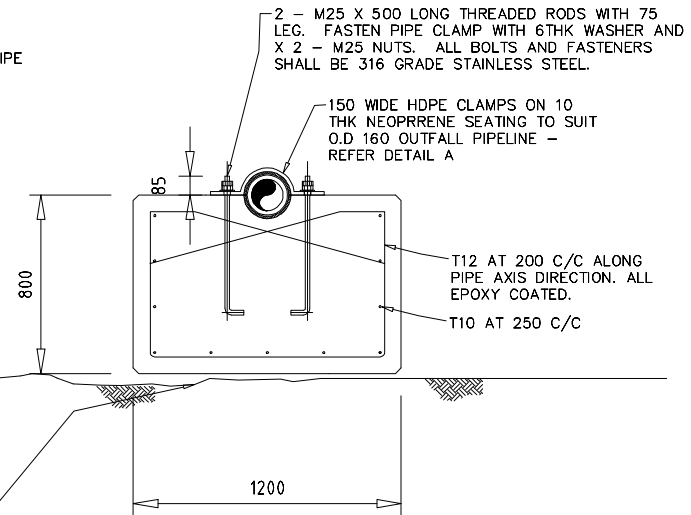
Scale: N.T.S



DETAIL A

PRE-CAST BALLAST BLOCK

PREPARE SEABED PRIOR TO PLACEMENT OF BALLAST BLOCKS MAX. +/- 25MM AMPLITUDE

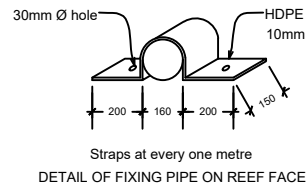


SECTION - PRE-CAST BALLAST BLOCK ASSEMBLY

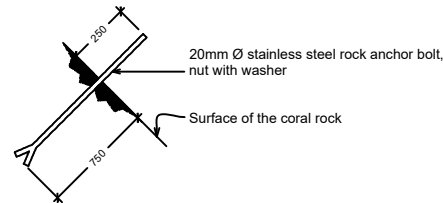
Scale: N.T.S

#### NOTES:

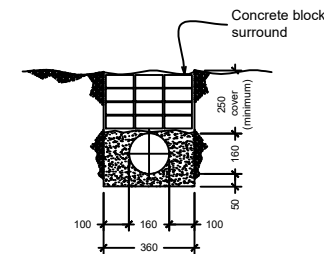
1. MIN 75MM COVER TO ALL REINFORCEMENT BARS.
2. ALL REINFORCEMENT SHALL BE EPOXY COATED PRIOR TO PLACEMENT OF CONCRETE.
3. PRE-CAST BALLAST BLOCKS SHALL BE FABRICATED WITH N40 / 20 CONCRETE.



DETAIL OF FIXING PIPE ON REEF FACE



ANCHOR BOLT DETAIL FOR FIXING OUTFALL PIPE ON STEEP REEF SLOPES



BURIED SECTION DETAIL

#### SEA OUTFALL FIXING DETAIL

Scale: N.T.S

NOTES :

PROJECT :

DESIGN & BUILD FOR CONSTRUCTION OF WATER SUPPLY & SEWERAGE FACILITIES

TITLE :

Sea Outfall

CLIENT :

MINISTRY OF NATIONAL PLANNING, HOUSING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

ENGINEER :

DRAWN BY :

CHECKED BY :

APPROVED BY :

DWG NO :

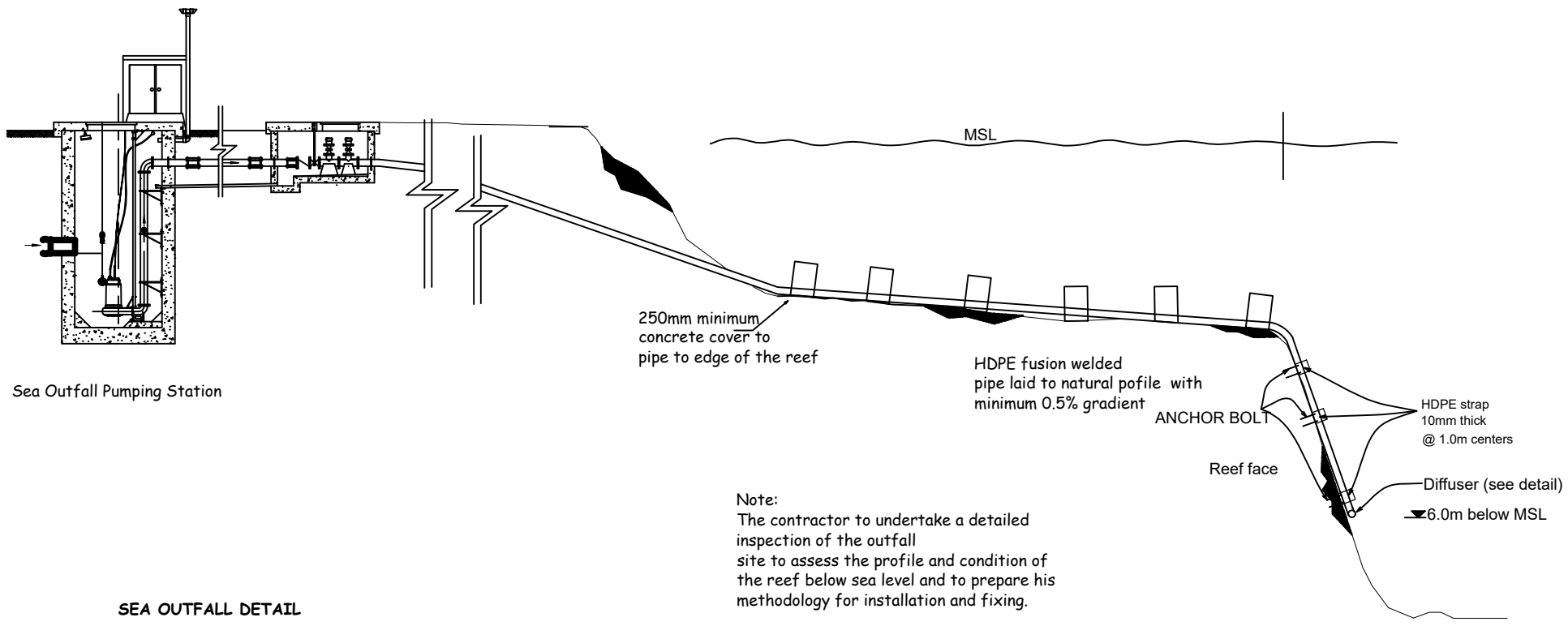
A- -/-



MINISTRY OF NATIONAL PLANNING, HOUSING AND INFRASTRUCTURE

AMEREE BANGU BANGU  
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TEL: 444-0100, FAX: 44-0070, WEB: www.planning.gov.mv





Sea Outfall Pumping Station

**SEA OUTFALL DETAIL**  
Scale: N.T.S

Note:  
The contractor to undertake a detailed inspection of the outfall site to assess the profile and condition of the reef below sea level and to prepare his methodology for installation and fixing.

NOTES :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES

TITLE :  
Sea Outfall

CLIENT :  
MINISTRY OF NATIONAL PLANNING,  
HOUSING & INFRASTRUCTURE

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AS GIVEN

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ENGINEER : -  
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DWG NO :  
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