



DESIGN BY:

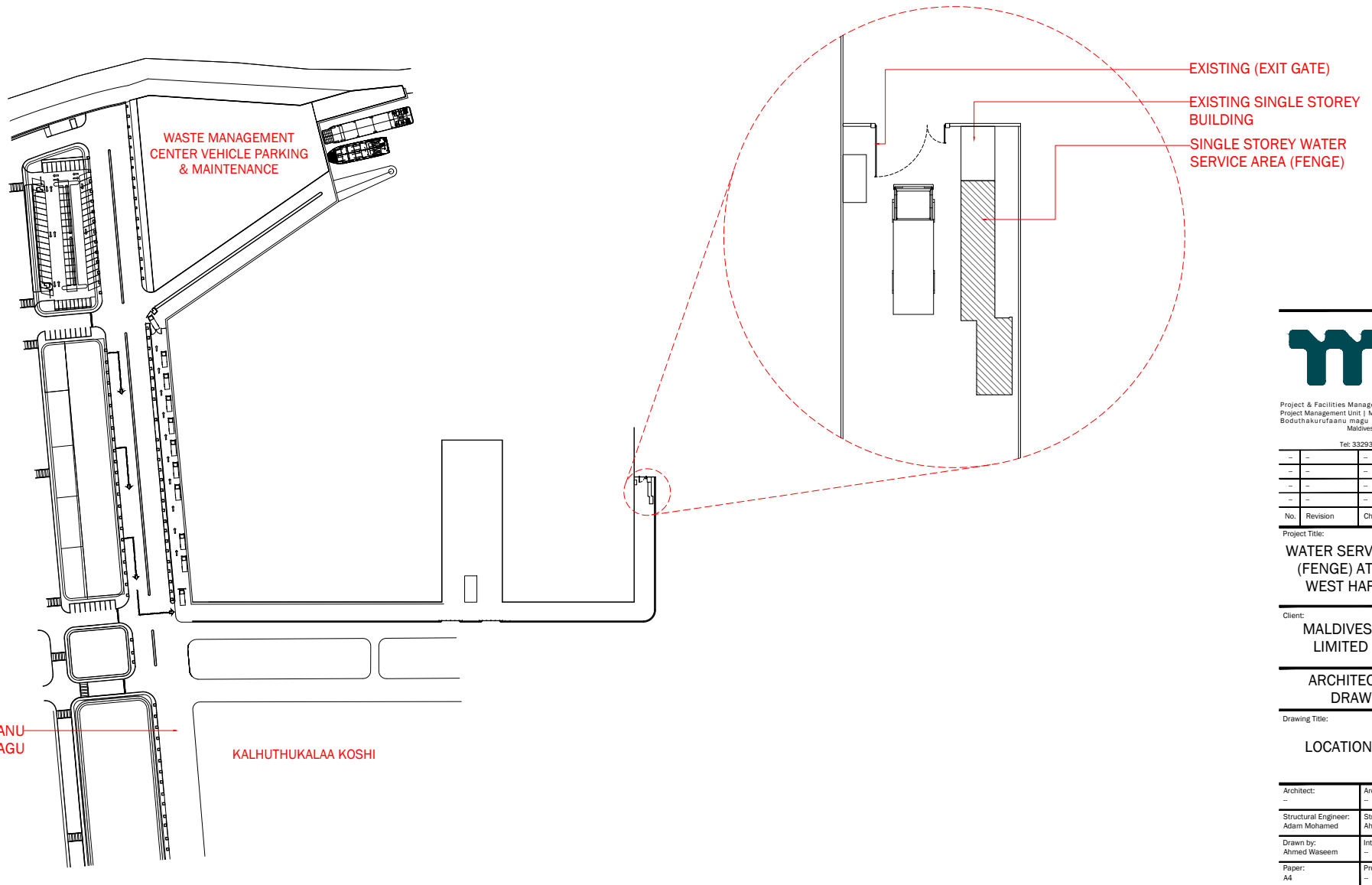
Project & Facilities Management Department |  
Project Management Unit | Maldives Ports Limited  
Boduthakurufaanu magu | Male' Republic of  
Maldives

Tel: 3329339

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**PROJECT:**  
**WATER SERVICE AREA (FENGE) at (South West Harbor)**

CLIENT:  
Maldives Ports Limited



Project & Facilities Management Department |  
Project Management Unit | Maldives Ports Limited  
Boduthakurufaanu magu | Male' Republic of  
Maldives

Tel: 3329339

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No.	Revision	Checked By	Date

Project Title:  
**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:  
**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

Drawing Title:  
**LOCATION PLAN**

Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
Date: September 2022	Scale: AS GIVEN

Drawing No: **A-01/09**

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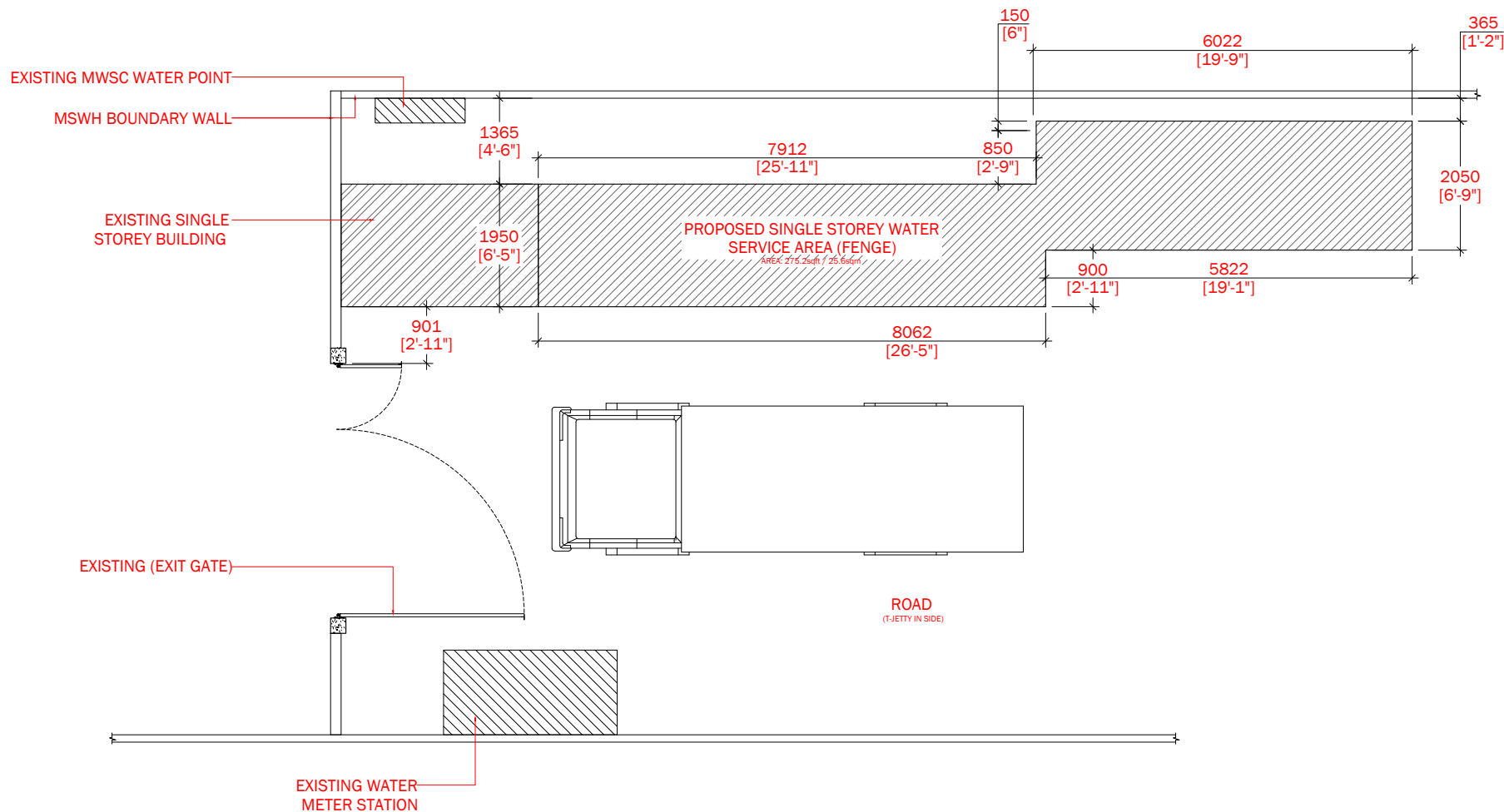
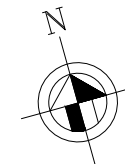
**LOCATION PLAN**

SCALE 1:100



**GENERAL NOTES:**

EXCEPT OTHERWISE NOTED:  
- ALL THE MEASUREMENTS TO BE CHECK ON THE SITE.



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Tel: 3329339

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Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

Drawing Title:

**SITE PLAN**

Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
Date: September 2022	Scale: AS GIVEN

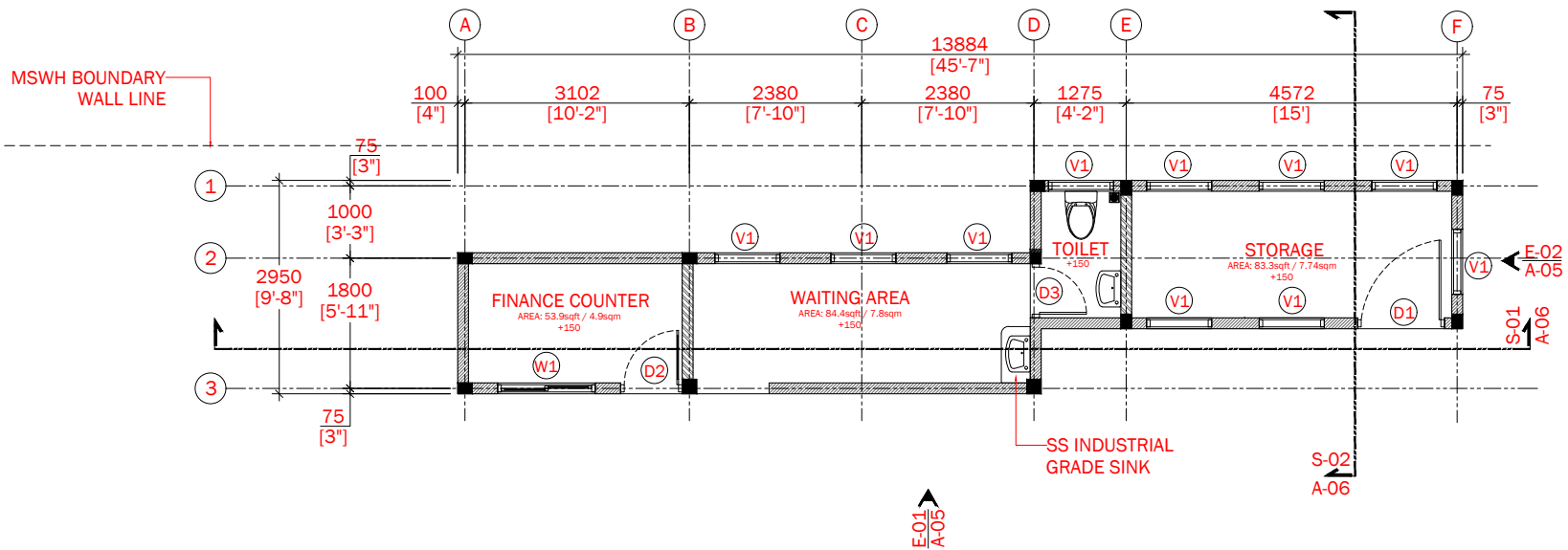
Drawing No: **A-02/09**

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**SITE PLAN**

SCALE 1:100





TOILET  
AREA: 21.94sqft / 2.1sqm

**GENERAL NOTES:**

- ALL OUTDOOR EXPOSED TIMBER SHOULD BE WETHER TREATED

- ALL THE WALLS EXPOSED TO RAIN SHOULD BE PLASTERED WITH WATER PROOFING CHEMICAL.

- ALL THE WORK SHOULD BE CHECK OUT ACCORDING TO THE CONSULTANT OR THE SITE ENGINEER.

EXCEPT OTHERWISE NOTED:  
- ALL THE MEASUREMENTS TO BE CHECK ON THE SITE.

- MCV (MECHANICALLY VENTILATED).



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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR**

Client:  
**MALDIVES PORTS LIMITED (MPL)**

**ARCHITECTURAL DRAWING**

Drawing Title:

**GROUND FLOOR PLAN**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:
September 2022	AS GIVEN
Drawing No.:	A-03/09

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**WALL TYPE:**

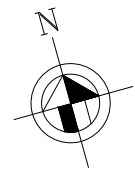
- = 150mm THICK HOLLOW BLOCK WALL.
- = 150mm THICK SOLID BLOCK WALL.

**NOTE:**

- EXTERIOR PLASTERING SHALL BE 2 COAT EACH 10MM THICK.
- INTERIOR PLASTERING SHALL BE 1 COAT EACH 13MM THICK.
- STIFFENER BEAM AT MID HEIGHT OF SOLID BLOCK WALL

**GROUND FLOOR PLAN**

SCALE 1:100



**GENERAL NOTES:**

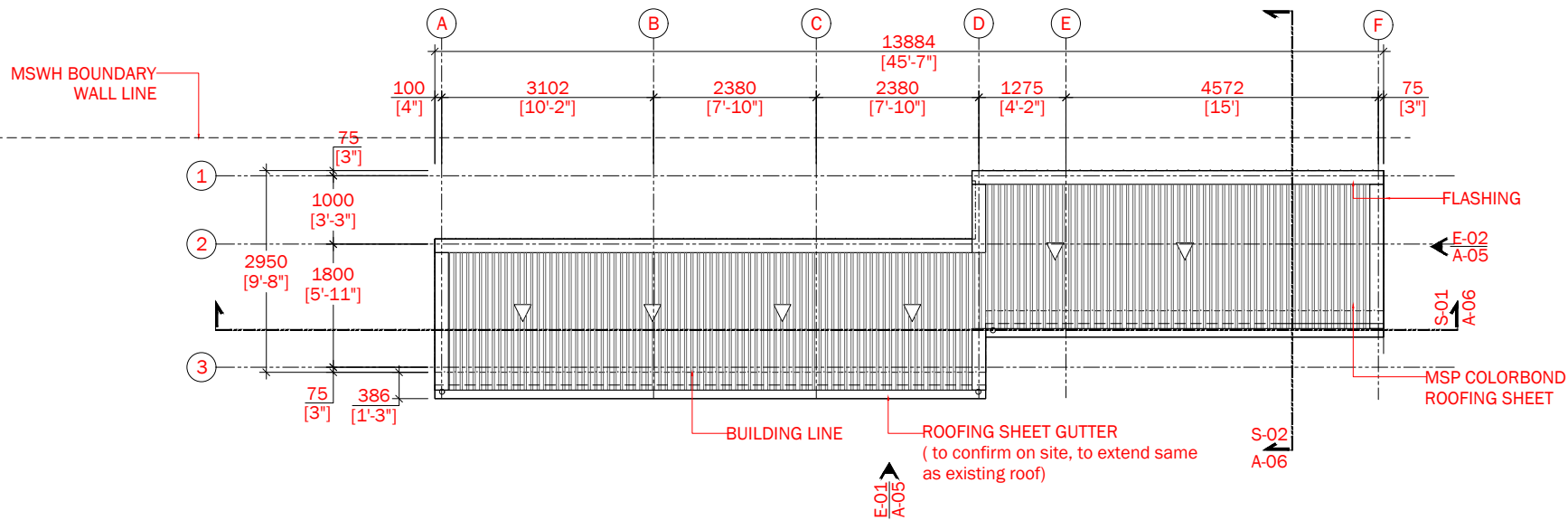
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Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

Drawing Title:

**ROOF PLAN**

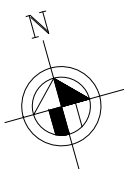
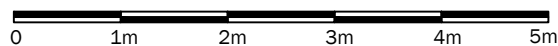
Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
Date: September 2022	Scale: AS GIVEN

Drawing No: **A-04/09**

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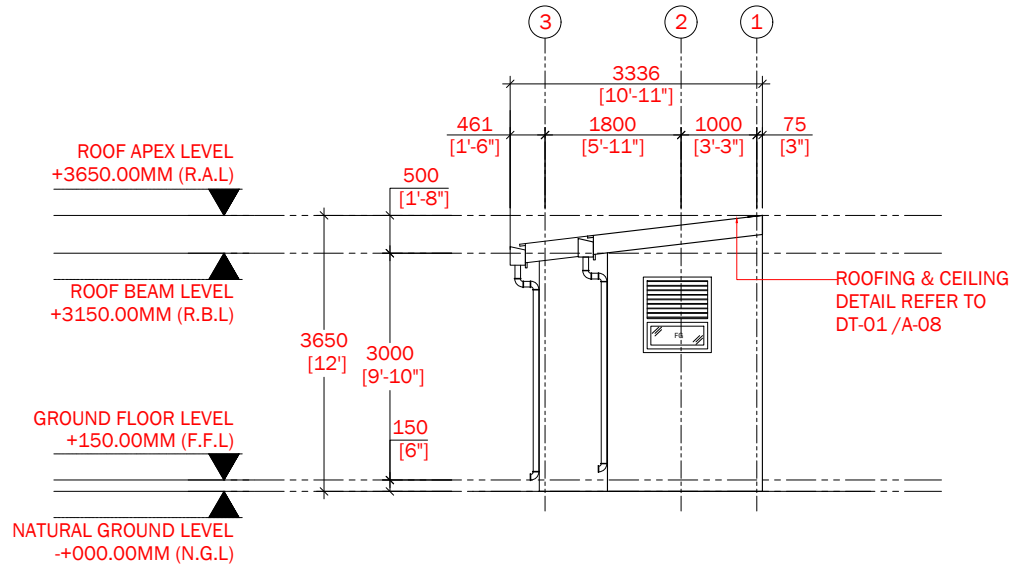
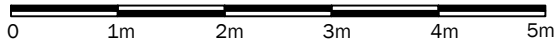
**ROOF PLAN**

SCALE 1:100



ELEVATION E-02 / A-05

SCALE 1:100



GENERAL NOTES:

- ALL OUTDOOR EXPOSED TIMBER SHOULD BE WETHER TREATED

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**WATER SERVICE AREA  
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Client:  
**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

Drawing Title:

**ELEVATION 01 & 02**

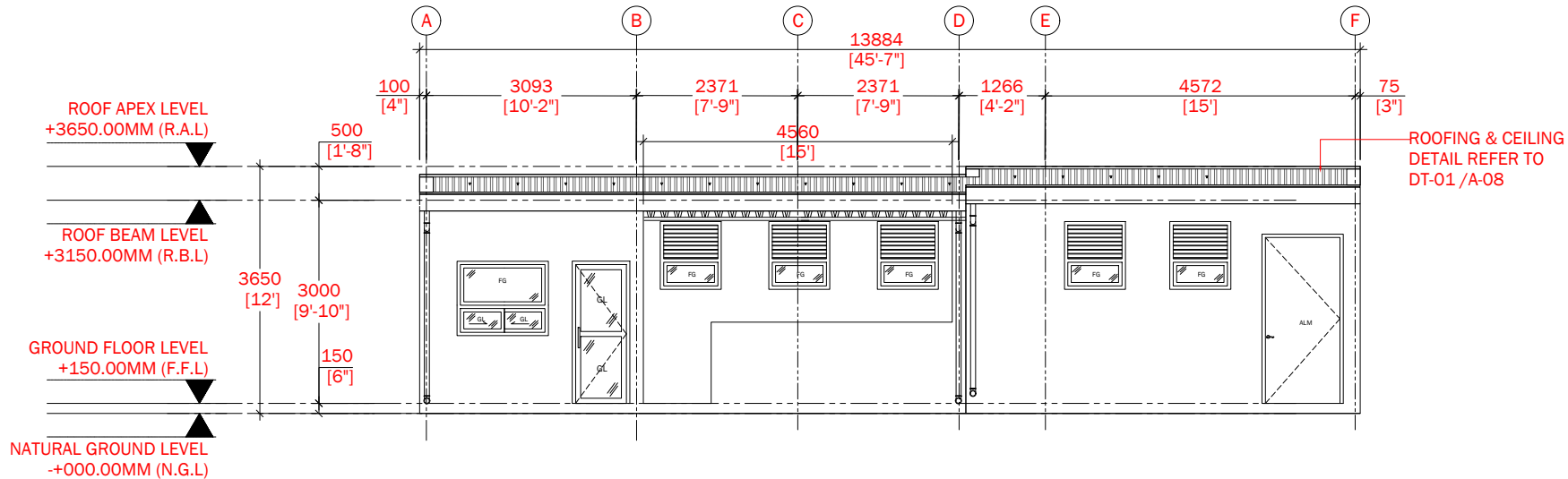
Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:

Drawing No: **A-05/09**

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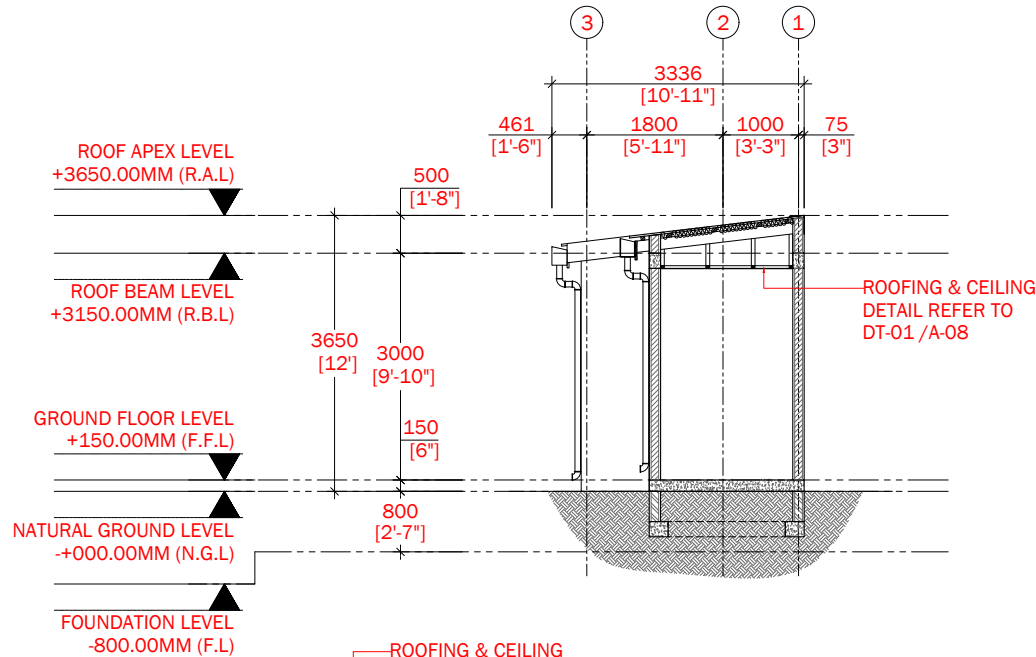
ELEVATION E-01 / A-05

SCALE 1:100



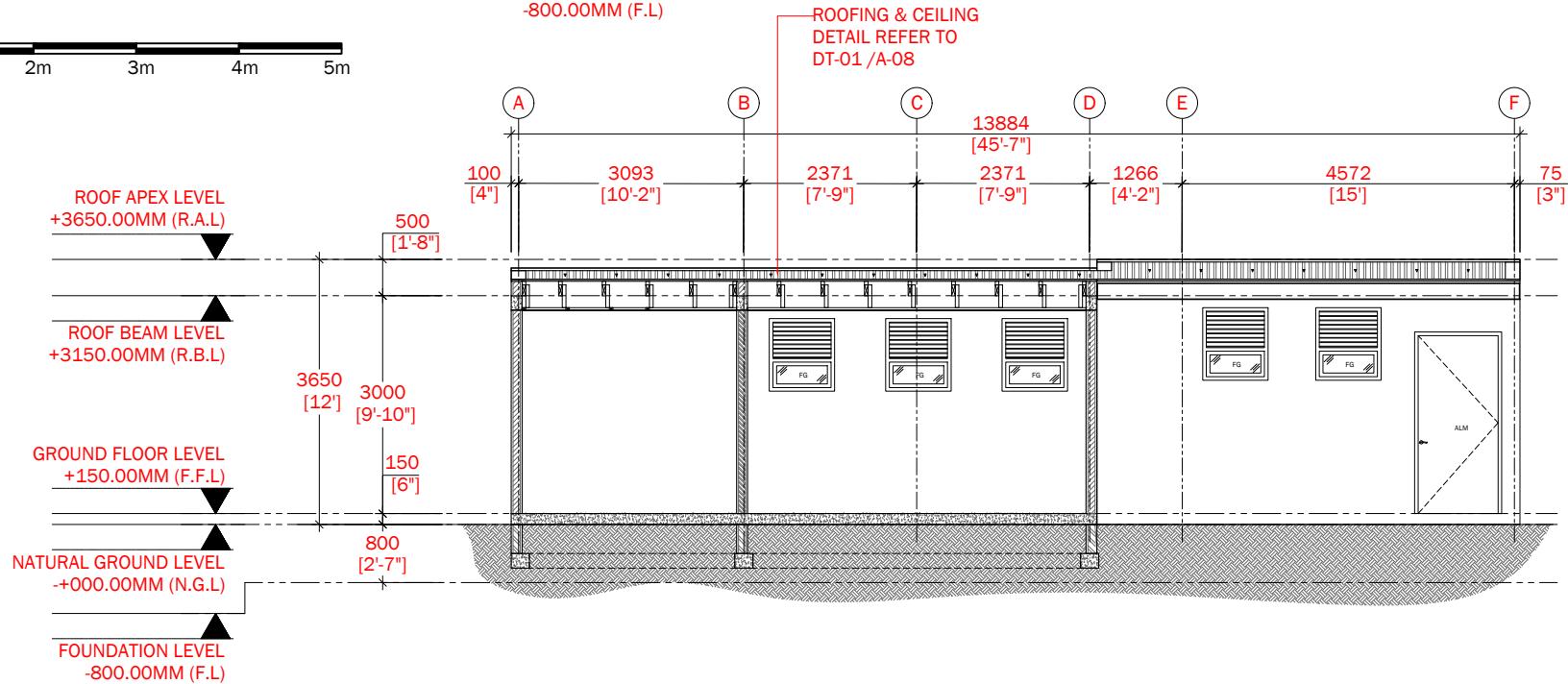
SECTION S-02 / A-06

SCALE 1:100



SECTION S-01 / A-06

SCALE 1:100



GENERAL NOTES:

- ALL OUTDOOR EXPOSED TIMBER SHOULD BE WETHER TREATED

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Project Title:

WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR

Client:

MALDIVES PORTS LIMITED (MPL)

ARCHITECTURAL DRAWING

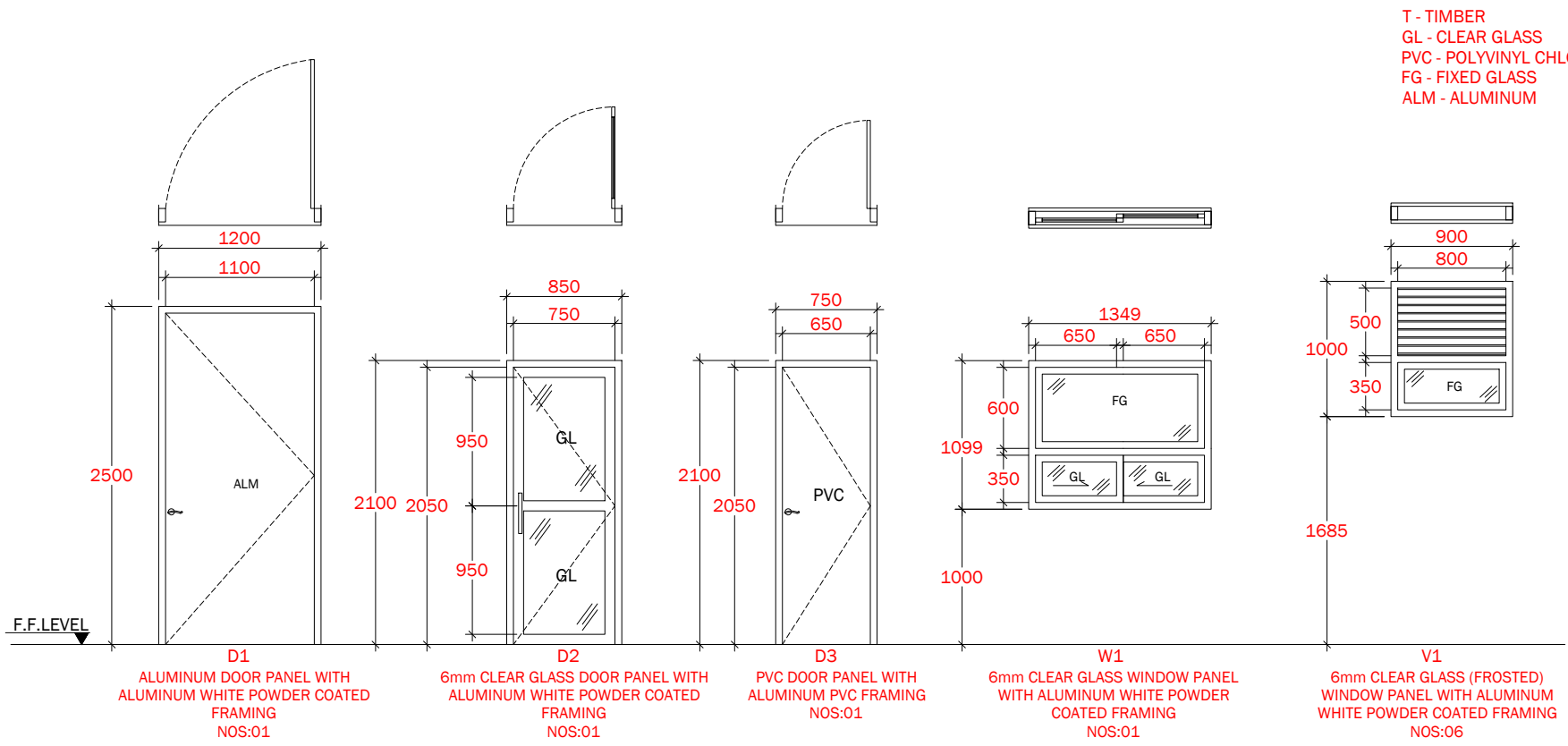
Drawing Title:

SECTION 01 & 02

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:

Drawing No: A-06/09

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**GENERAL NOTES:**

**EXCEPT OTHERWISE NOTED:**

- ALL DIMENSIONS TO BE CHECK ON SITE PRIOR TO FABRICATION.
- ALL OUTDOOR EXPOSED DOOR & WINDOWS SHOULD BE WEATHER TREATED.
- ALL ALUMINIUM DOORS & WINDOWS FINISHING ARE WHITE POWDER COATED FINISH.

**ALL DOORS & WINDOWS GLASSES ARE 6mm CLEAR GLASS**



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Project Title:  
**WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR**

Client:  
**MALDIVES PORTS LIMITED (MPL)**

**ARCHITECTURAL DRAWING**

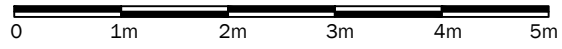
Drawing Title:  
**DOOR, WINDOWS & VENTILATION SCHEDULE**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:
Drawing No.:	

SCHEDULE OF VENTILATION FOR THE PROPOSED TWO STOREY HMT MAJOORI WAITING AREA & TUCK SHOP				
ROOM NAME / NUMBER	SPACE AREA (sqm) SPECIFY CENTER TO CENTER OR CLEAR	WINDOW (OPENING NUMBER)	REQUIRED OPENING AREA (sqm)	DESIGNED OPENING AREA (sqm)
GROUND FLOOR				
WAITING AREA	7.8		OPEN	
FINANCE COUNTER	4.9	W1	0.49	0.30
TOILET	2.1	V1	0.21	0.68
STORAGE	5.2	V1x6	0.52	4.08

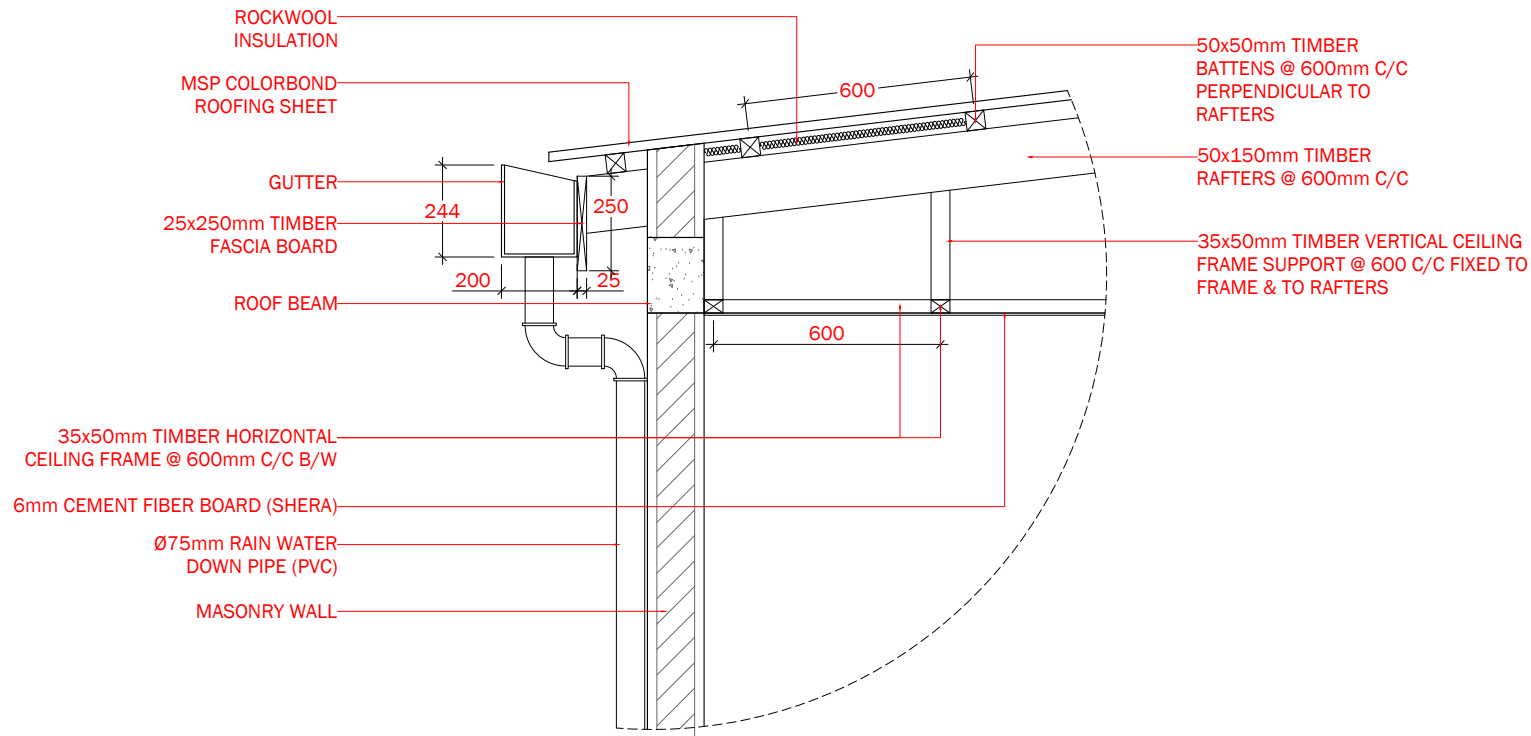
## DOORS & WINDOWS & VENTILATION SCHEDULE

SCALE 1:50



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## ROOFING & CEILING DETAIL DT-01 / A-08

SCALE 1:20



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Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

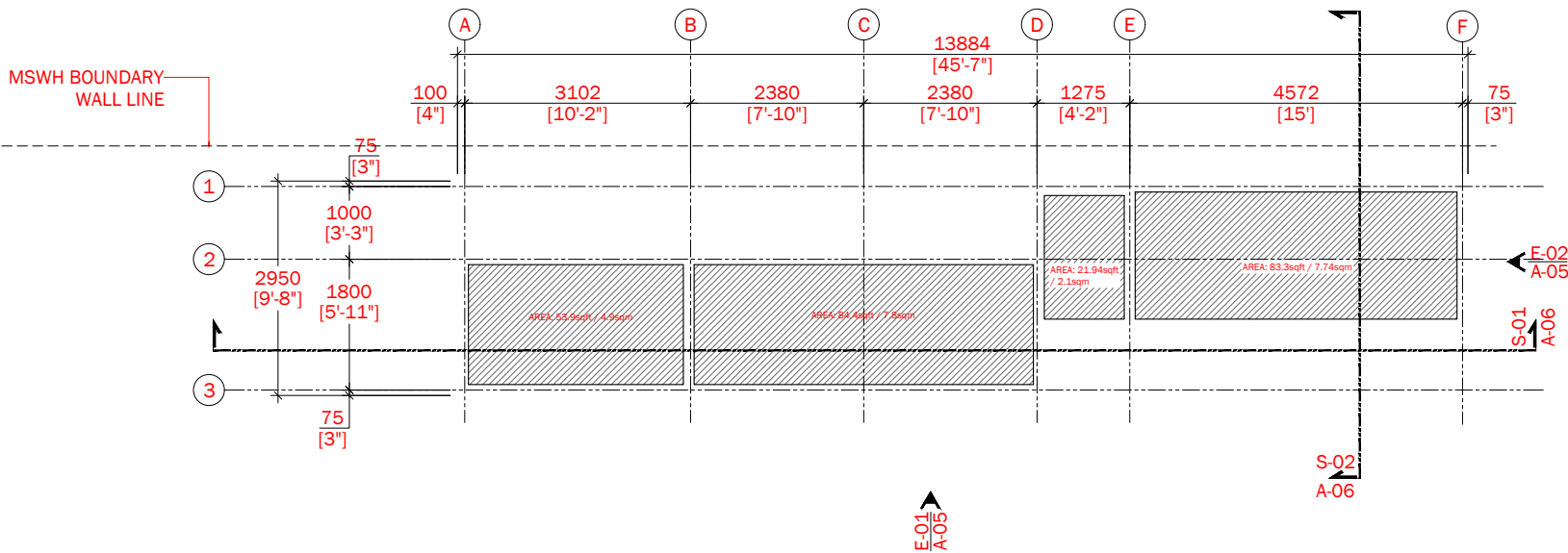
Drawing Title:

**ARCHITECTURAL  
DETAILS**

Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
Date: September 2022	Scale: AS GIVEN

Drawing No: **A-08/09**

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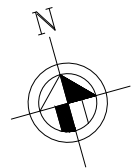


E-01  
A-05

S-02  
A-06

F-02  
A-05

S-01  
A-06



**CEILING LAYOUT**

SCALE 1:100



**CEILING TYPE:**

= 6MM CEMENT FIBRE BOARD FLAT CEILING (SHERA )  
REFER TO DETAIL DT-01 / A-08



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**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**ARCHITECTURAL  
DRAWING**

Drawing Title:

**CEILING PLAN**

Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhair Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
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Drawing No: **A-09/09**

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**GENERAL NOTES:**

F1 - 450mm X 450mm X 200mm  
(T12@100 C/C B/W (BOTTOM))

FB (FOUNDATION BEAM)  
200x200mm

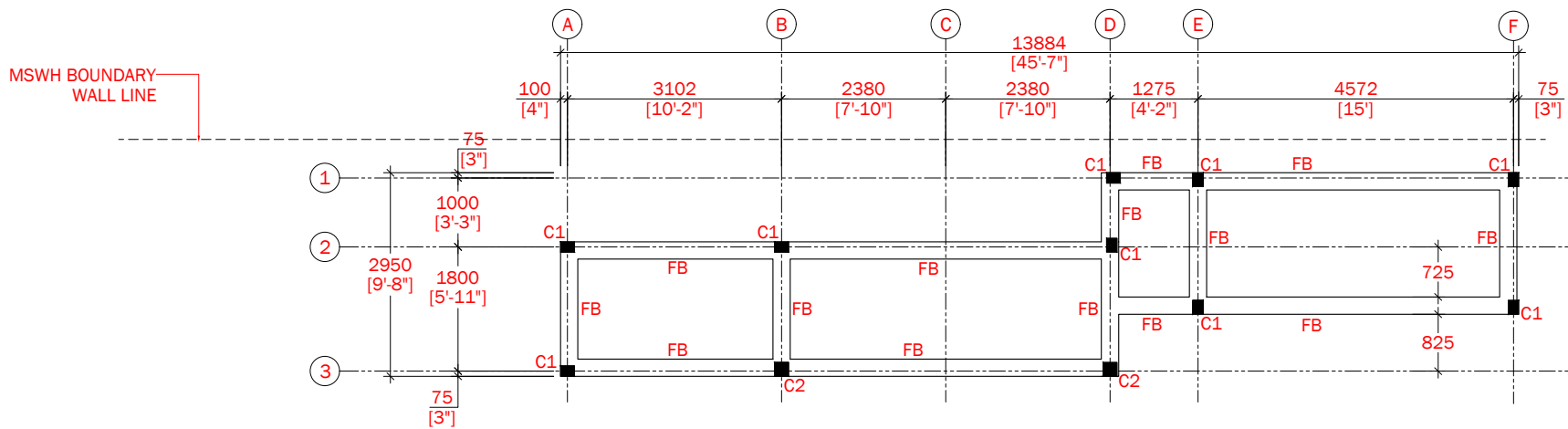
C1 : 200x200mm RC COLUMN  
STUMP WITH Ø76 x 3.2mm CHS  
SINGLE PIPE

C2 - (COLUMN 2)  
200x150mm

C3 - (COLUMN 3)  
200x200mm

SC - (STIFFENER COLUMN)  
150x150mm

FOUNDATION DEPTH = 800mm  
BELOW NATURAL GROUND  
LEVEL



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**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:  
**MALDIVES PORTS  
LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:

**FOUNDATION & COLUMN  
LOCATION PLAN**

Architect: -	Architectural Checker: -
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhair Zaeem
Drawn by: Ahmed Waseem	Interior Designer: -
Paper: A4	Project No: -
Date: September 2022	Scale: AS GIVEN

Drawing No: **S-01/O8**

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**EXCEPT OTHERWISE NOTED:**

BENDS = 10xØ (Ø = BAR DIAMETER)  
LAPS = 45xØ (Ø = BAR DIAMETER)

- FOOTINGS & FOOTING BEAM = 50mm
- BEAM = 35mm
- COLUMNS = 40mm
- STUMP COLUMN COVER = 40mm
- FLOOR SLAB COVER = 30mm
- STIFFENER & LINTEL COVER = 30mm

- FOOTINGS (CONCRETE GRADE = C25)
- STUMP COLUMN (CONCRETE GRADE = C25)
- TIE BEAM (CONCRETE GRADE = C25)
- FLOOR SLAB (CONCRETE GRADE = C25)
- STIFFENER & LINTEL (CONCRETE GRADE = C25)
- MASS CONCRETE GRADE = C25
- LEAN CONCRETE GRADE = C15

**FOUNDATION & COLUMNS LOCATION PLAN**

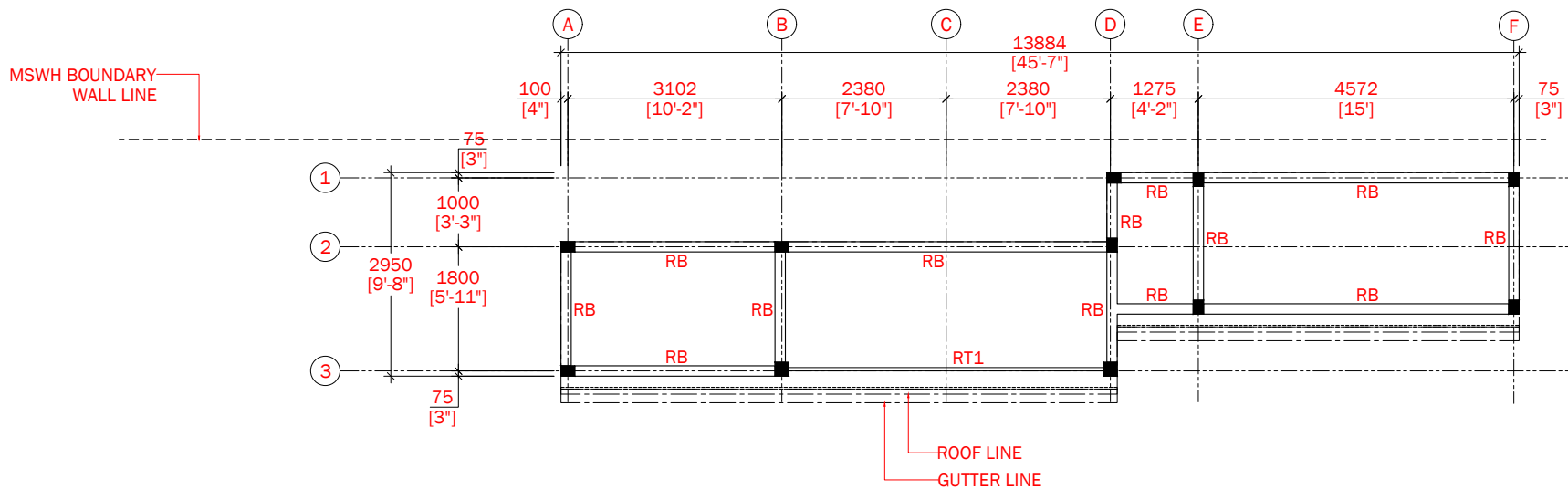
SCALE 1:100



**GENERAL NOTES:**

RB - ROOF BEAM (150x200mm)

TR1 - (TRUSS 1)  
48.3x1.8mm (1.5") TOP &  
BOTTOM MEMBER, 33.4x1.8mm  
(1") WEB MEMBER



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Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:

**ROOF BEAM PLAN**

Architect:

Architectural Checker:

Structural Engineer:

Structural Checker:

Drawn by:

Interior Designer:

Paper:

Project No.:

Date:

Scale:

September 2022 AS GIVEN

Drawing No.:

**S-02/08**

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- BEAM = 35mm
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- FOOTINGS (CONCRETE GRADE = C25)
- STUMP COLUMN (CONCRETE GRADE = C25)
- TIE BEAM (CONCRETE GRADE = C25)
- FLOOR SLAB (CONCRETE GRADE = C25)
- STIFFENER & LINTEL (CONCRETE GRADE = C25)
- MASS CONCRETE GRADE = C25
- LEAN CONCRETE GRADE = C15

**ROOF BEAM PLAN**

SCALE 1:100



**GENERAL NOTES:**

50 x 150mm TIMBER RAFTERS @ 600mm C/C

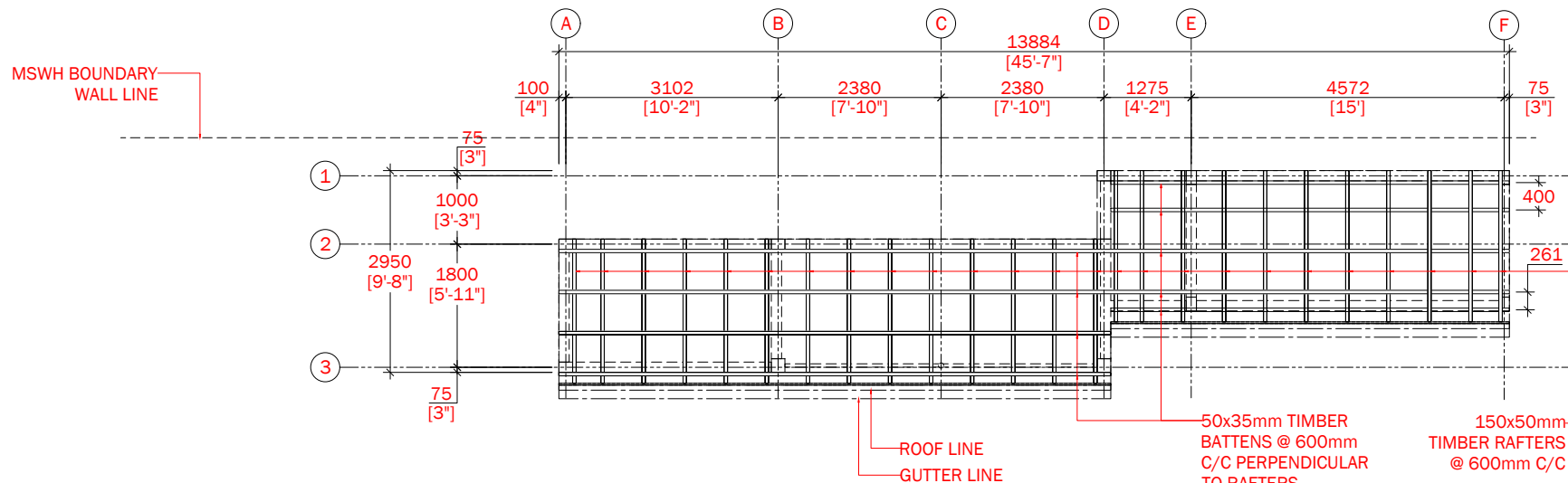
25 x 250mm FASCIA BEAM

50 x 50mm TIMBER BATTENS @ 600mm C/C FIXED PERPENDICULAR TO RAFTERS.

35x50x1.5mm RHS BATTENS @ 600mm C/C

MASONRY BLOCKWORK SHALL BE BUILT ABOVE ROOF BEAMS TO RECEIVE RAFTERS, BLOCKWORK SHALL BE PROPERLY BRACED ON ALL SIDES WITH COPING BEAM & STIFFENER COLUMNS.

MINIMUM TIMBER GRADE = C30



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**WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR**

Client:

**MALDIVES PORTS LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:

**ROOF FRAMING PLAN**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:

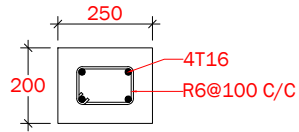
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**ROOF FRAMING PLAN**

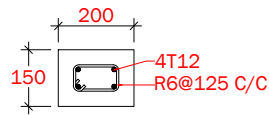
SCALE 1:100





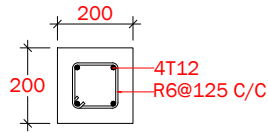
FB

**FOUNDATION BEAM DETAILS:**

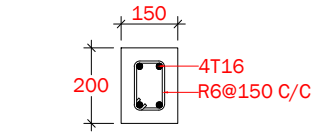


C1

**COLUMNS DETAILS:**



C2



RB

**ROOF BEAM DETAILS:**

MEMBER	COVER	CONCRETE GRADE
FOOTINGS & FOUNDATION BEAM	50mm	C25
STUMP COLUMNS	35mm	
COLUMNS	40mm	
BEAMS	35mm	
FLOOR SLABS	30mm	
STIFFENER & LINTEL	30mm	C25
MASS CONCRETE	--	C25
LEAN CONCRETE	--	C15

**RC COVER & CONCRETE GRADE SCHEDULE (BS 5328)**

TYPE	DIMENSIONS	REINFORCEMENT
F1	450mm x 450mm x 200mm	T12@100 C/C B/W (BOTTOM)
FOUNDATION DEPTH = 800mm BELOW NATURAL GROUND LEVEL		

**FOOTING SCHEDULE**

**STRUCTURAL DETAILS**

SCALE 1:20



**GENERAL NOTES:**

FOUNDATION DEPTH = 800mm BELOW NATURAL GROUND LEVEL

WEB MEMBER TO CHORD MEMBER BY 5mm FILLET WELD ALL AROUND PIPE

ALL GI PIPES & MS PLATES SHOULD BE FIRST APPLIED WITH REDOXIDE PRIMER & THAN WITH TWO COATS OF APPROVED QUALITY OF ENAMAL PAINT.

EXCEPT OTHERWISE NOTED:

- FOOTINGS = 50mm
- FOUNDATION BEAM = 50mm
- TIE BEAM = 35mm
- STUMP COLUMN COVER = 35mm
- COLUMN = 40mm
- FLOOR SLAB COVER = 30mm
- STIFFENER & LINTEL COVER = 30mm
- MINIMUM TIMBER GRADE = C30



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Project Management Unit | Maldives Ports Limited  
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Maldives

Tel: 3329339

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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:

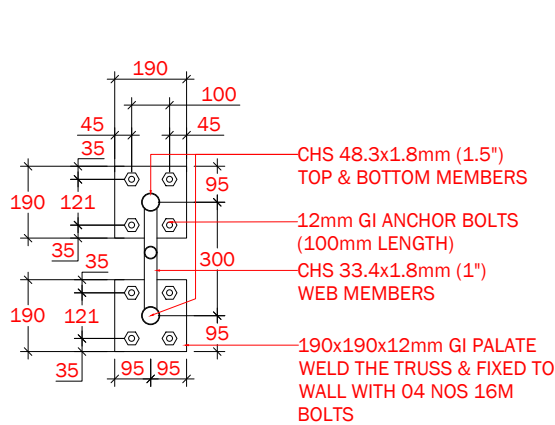
**STRUCTURAL DETAILS**

Architect: --	Architectural Checker: --
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: --
Paper: A4	Project No: --
Date: September 2022	Scale: AS GIVEN

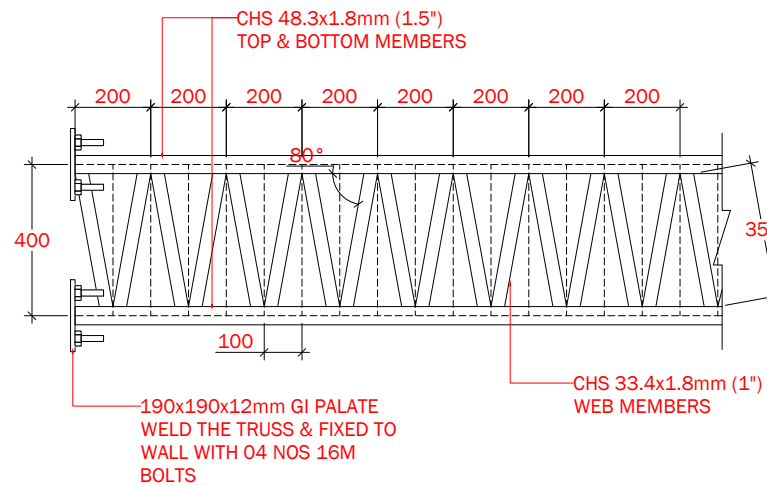
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**FOOTING 1 (F1) & STUMP COLUMN (C1) DETAIL:**



**TR1 (TRUSS 1) DETAILS**



**GENERAL NOTES:**

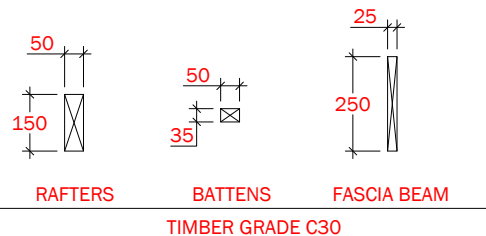
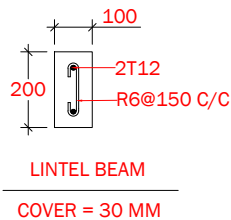
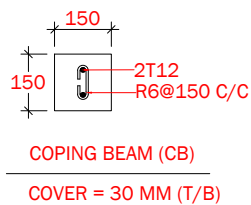
FOUNDATION DEPTH = 800mm BELOW NATURAL GROUND LEVEL

WEB MEMBER TO CHORD MEMBER BY 5mm FILLET WELD ALL AROUND PIPE

ALL GI PIPES & MS PLATES SHOULD BE FIRST APPLIED WITH REDOXIDE PRIMER & THAN WITH TWO COATS OF APPROVED QUALITY OF ENAMAL PAINT.

EXCEPT OTHERWISE NOTED:

- FOOTINGS = 50mm
- FOUNDATION BEAM = 50mm
- TIE BEAM = 35mm
- STUMP COLUMN COVER = 35mm
- COLUMN = 40mm
- FLOOR SLAB COVER = 30mm
- STIFFENER & LINTEL COVER = 30mm
- MINIMUM TIMBER GRADE = C30



**STRUCTURAL TIMBER DETAILS**

**TYPICAL RC MEMBER DETAILS FOR 100mm & 150mm THK WALLS**

**NOTES:**

1. STIFFENER BEAMS / COLUMNS SHALL BE REQUIRED TO WALL AREAS GREATER THAN 12 SQM WHICH ARE UNSUPPORTED Laterally BY CONCRETE WALLS OR COLUMNS.
2. APPROVED FLEXIBLE SEALANT SHALL BE PROVIDED AT THE INTERFACE OF CONCRETE & BLOCK WORK MASONRY AS SHOWN.
3. BLOCK WORK RATES SHOULD INCLUDE FOR ALL CONSTRUCTION OF R.C. STIFFENER COLUMN / BEAMS FLEXIBLE JOINTS, ANCHORS ETC.
4. BLOCK WORK FOR EXTERIOR SHALL BE USED GALVANIE "X" MESH.

**STRUCTURAL DETAILS**

SCALE 1:20



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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR**

Client:  
**MALDIVES PORTS LIMITED (MPL)**

**STRUCTURAL DRAWING**

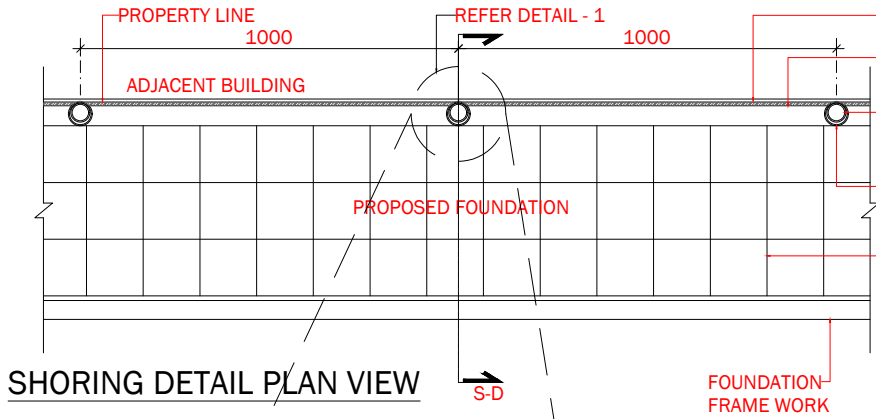
Drawing Title:

**STRUCTURAL DETAILS**

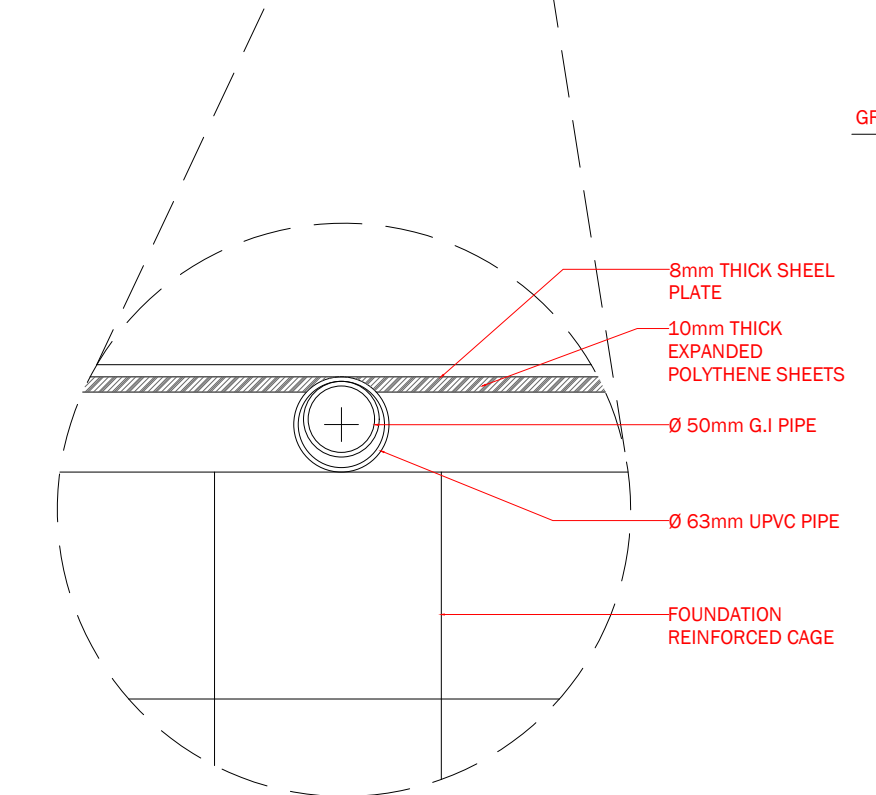
Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:
September 2022	AS GIVEN
Drawing No.:	<b>S-05/O8</b>

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**METHOD OF PROTECTING ADJACENT STRUCTURES DURING EXCAVATION FOR FOUNDATION**

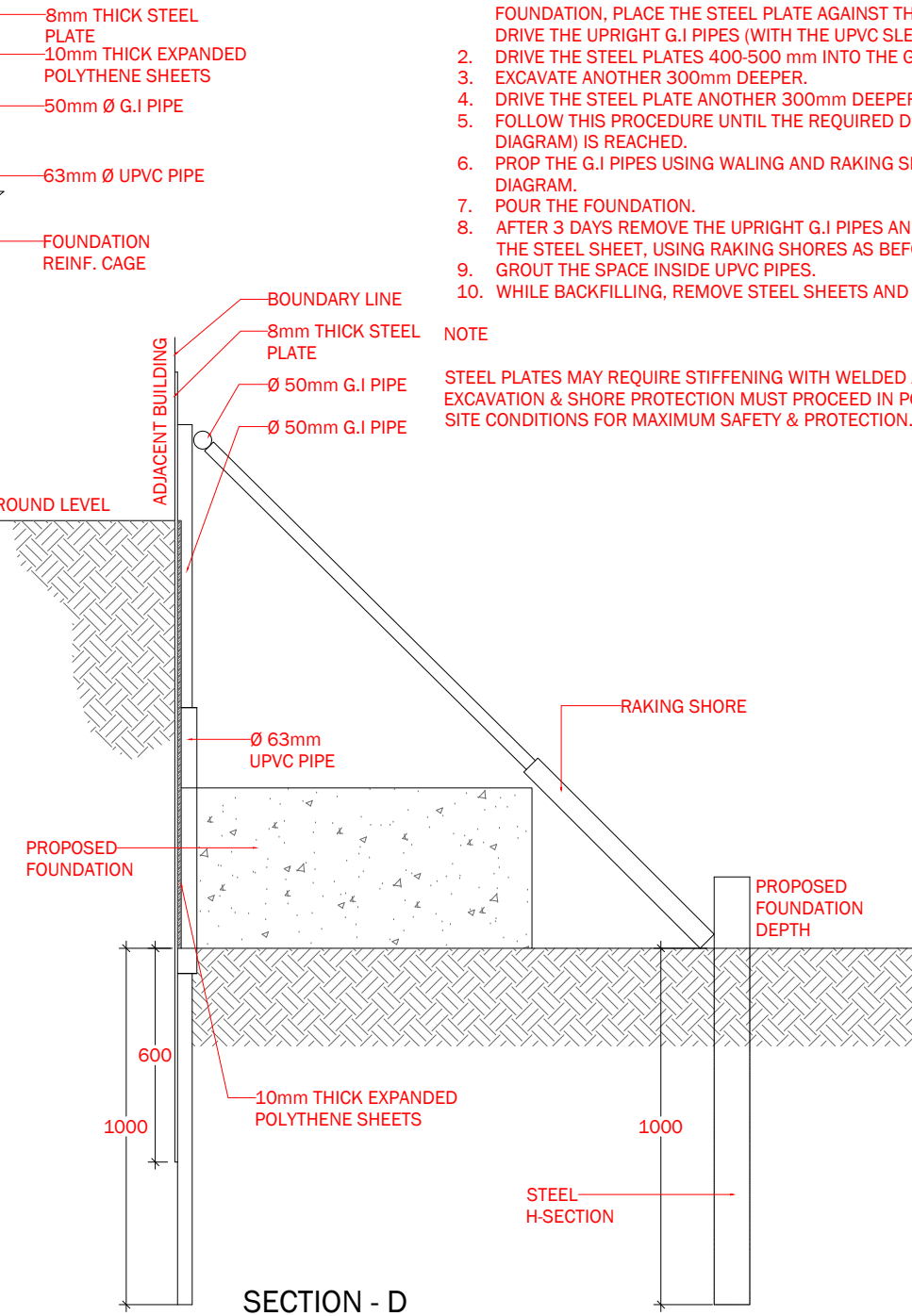


**SHORING DETAIL PLAN VIEW**



**FOUNDATION PROTECTION METHOD**

SCALE 1:20



**SECTION - D**

1. BEFORE THE LEVEL OF EXCAVATION REACHES THE BOTTOM OF THE ADJACENT FOUNDATION, PLACE THE STEEL PLATE AGAINST THE ADJACENT PROPERTY' AND DRIVE THE UPRIGHT G.I PIPES (WITH THE UPVC SLEEVES) INTO THE GROUND.
2. DRIVE THE STEEL PLATES 400-500 mm INTO THE GROUND
3. EXCAVATE ANOTHER 300mm DEEPER.
4. DRIVE THE STEEL PLATE ANOTHER 300mm DEEPER.
5. FOLLOW THIS PROCEDURE UNTIL THE REQUIRED DEPTH (AS SHOWN IN THE DIAGRAM) IS REACHED.
6. PROP THE G.I PIPES USING WALING AND RAKING SHORES AS SHOWN IN THE DIAGRAM.
7. POUR THE FOUNDATION.
8. AFTER 3 DAYS REMOVE THE UPRIGHT G.I PIPES AND PLACE THE WALING AGAINST THE STEEL SHEET, USING RAKING SHORES AS BEFORE.
9. GROUT THE SPACE INSIDE UPVC PIPES.
10. WHILE BACKFILLING, REMOVE STEEL SHEETS AND RAKING SHORES.

**NOTE**

STEEL PLATES MAY REQUIRE STIFFENING WITH WELDED ANGLES IN BOTH DIRECTIONS. EXCAVATION & SHORE PROTECTION MUST PROCEED IN PORTIONS, DECIDED BASED ON SITE CONDITIONS FOR MAXIMUM SAFETY & PROTECTION.



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No.	Revision	Checked By	Date

Project Title:  
**WATER SERVICE AREA (FENCE) AT SOUTH WEST HARBOUR**

Client:  
**MALDIVES PORTS LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:  
**FOUNDATION PROTECTION METHOD**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:
Drawing No.:	

September 2022 AS GIVEN  
**S-06/O8**

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## GENERAL NOTES

### GENERAL

1. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
3. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND ENSURE THAT NO STRUCTURAL ELEMENT BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES OR OTHER ACCEPTABLE STANDARDS.
5. BASED ON THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL PRODUCE STRUCTURAL SHOP DRAWINGS FOR APPROVAL IF REQUESTED.
6. ALL DIMENSIONS TO STRUCTURAL DRAWINGS ARE IN MILLIMETERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.
7. THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110' STRUCTURAL USE OF CONCRETE'
8. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN THE TYPICAL DRAWINGS FOR DETAILS NOT SHOWN SPECIFICALLY.
9. ALL PROPS AND FRAMEWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.
10. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLABS AND BEAMS BY 30MM. THE JOINT SHALL BE FILLED WITH FIBRE BOARD OR COMPRESSIBLE MATERIAL PRESSED METAL COVERING BOTH SIDES OF THE JOINT, AND THE METAL COVERING SHALL BE FIXED TO SOFFIT OF THE BEAM OR SLAB AS THE CASE MAYBE.

### REINFORCEMENT

1. HIGH STRENGTH DEFORMED BARS DENOTED T SHALL CONFIRM TO BS-4449 WITH MINIMUM YIELD STRENGTH  $F_y = 460 \text{ N/mm}^2$ , MILD STEEL DENOTED R SHALL HAVE  $250 \text{ N/mm}^2$  YIELD STRENGTH. WIELDED WIRE MESH SHALL COMPLY WITH BS-4483.
2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN OR AS OTHERWISE APPROVED
3. SPACER BARS SHALL BE PROVIDED AT 100 cm CENTERS WHEREVER REINFORCEMENT IS PLACED IN MORE THAN ONE LAYER, UNLESS STATED OTHERWISE
4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
5. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
6. TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH  $F_y = 460 \text{ N/mm}^2$  AND  $F_{cu} = 30 \text{ N/mm}^2$ , (CUBE STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE MENTIONED IN DRAWINGS:
  - 6.1 BASIC TENSION DEVELOPMENT LENGTH,  $LD = 56 \times \text{BAR } \emptyset$
  - 6.2 MINIMUM COMPRESSION DEVELOPMENT LENGTH,  $LDC = 40 \times \text{BAR } \emptyset$  (OR 300MM WHICH EVER IS MORE)

## FOUNDATIONS

1. ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF  $150 \text{ kN/m}^2$
2. ALL FOOTINGS SHALL BE PLACED MINIMUM 1.2 m BELOW THE NATURAL GROUND LEVEL UNLESS STATED OTHERWISE
3. ALL BACKFILL SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
4. WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
5. IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOOTING, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
6. IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING THE SITE, AND LOWERING THE GROUND WATER TO AT LEAST 70CM BELOW LEVEL OF FOUNDATIONS.
7. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
8. NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.
9. UNLESS OTHERWISE SHOWN ALL FOOTINGS ARE CONCENTRIC TO COLUMNS.



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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**STRUCTURAL DRAWING**

Drawing Title:

**GENERAL NOTE**

Architect: --	Architectural Checker: --
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: --
Paper: A4	Project No: --
Date: September 2022	Scale: AS GIVEN
Drawing No:	<b>S-07/O8</b>

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## CONCRETE

1. A. ALL INSITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 30 N/mm<sup>2</sup> TO THE RELEVANT CLAUSES OF BS5328.  
B. ALL PLAIN CONCRETE (OR BLINDING) SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm<sup>2</sup> (EQUIVALENT CYLINDER STRENGTH,  $F_c = 12 \text{ N/mm}^2$ ), TO THE RELEVANT CLAUSES OF BS538.
2. SULPHATE RESISTING CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH GARBAGE.
3. NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL.
4. CONSTRUCTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
5. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS.
6. SPECIAL RULES REGARDING CONCRETING IN HOT WEATHER SHALL BE OBSERVED
7. OPENING IN SLABS:
  - FOR OPENING LESS THAN 150 x 150 MM, BARS SHALL BE RE-ARRANGED AROUND THE OPENING.
  - FOR OPENINGS GREATER THAN 300 x 300 MM BUT LESS THAN 600 x 600 MM AND NOT SHOWN ON PLAN, PROVIDE 2xØ 16 TOP AND BOTTOM ALONG EACH SIDE AND DIAGONALLY AT CORNERS OR AS OTHERWISE DETAILED. AMOUNT OF BARS DISCONTINUED DUE TO THE OPENING SHALL BE PLACED AT THE RESPECTIVE SIDES.
  - OPENINGS GREATER THAN 600 X 600 MM AND NOT SHOWN ON PLAN SHALL BE APPROVED.
8. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.

## ABBREVIATIONS:

APPROX - APPROXIMATE  
B - BEAM  
B.W - BOTHWAYS  
BOT OR BTM - BOTTOM  
BOB - BOTTOM OF BASE  
BOS - BOTTOM OF STEEL  
BOT - BOTTOM OF TRUSS  
(B1) - BOTTOM STEEL BOTTOM RNFMT  
(B2) - BOTTOM STEEL TOP RNFMT  
BLDG - BUILDING  
€ - CENTER LINE  
C/C - CENTER TO CENTER  
C - COLUMN  
CO-ORD - CO-ORDINATE  
DPC - DAMP PROOF COURSE  
DET OR DTL - DETAIL  
DIA - DIAMETER  
D/B - DISTRIBUTION BAR  
DWG - DRAWING  
EF - EACH FACE  
EW - EACH WAY  
EL - ELEVATION (HEIGHT)  
ELEV - ELEVATION (VIEW)  
FF - FAR FACE  
FS - FAR SIDE  
FW - FILLET WELD  
FFL - FINISHED FLOOR LEVEL  
FDN OR FND - FOUNDATION  
FB - FOUNDATION BEAM  
GA - GENERAL ARRANGEMENT  
G.I - GALVANIZED IRON  
IL - INVERT LEVEL  
LG - LONG OR LENGTH  
MAX - MAXIMUM  
MKD - MARKED  
MIN - MINIMUM  
MISC - MISCELLANEOUS  
N/F - NEAR FACE  
N/S - NEAR SIDE  
NOM - NOMINAL  
NTS - NOT TO SCALE  
NOS - NUMBERS  
O/D - OUTSIDE DIAMETER  
PL - PAVEMENT LEVEL  
PROJ - PROJECTION  
QTY - QUANTITY  
RAD - RADIUS  
R.C - REINFORCED CONCRETE  
RE'Q - REQUIRED  
SW - SHEAR WALL  
STIFF - STIFFENER  
SQ - SQUARE

SFL - STRUCTURAL FINISH LEVEL  
THK - THICK (NESS)  
TEMP - TEMPORARY  
TOB - TOP OF BEAM  
TOC - TOP OF COLUMN  
TOG - TO OF GROUT  
TO Platf - TOP OF PLATFORM  
TS - TOP OF SLAB  
TOS - TOP OF STEEL  
TOT - TOP OF TRUSS  
TYP - TYPICAL  
U/S - UNDERSIDE  
UNO - UNLESS NOTED OTHERWISE  
(T1) - TOP STEEL TOP RNFMT  
(T2) - TOP STEEL BOTTOM RNFMT  
(UPB) - UPSTAND BEAM



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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**STRUCTURAL DRAWING**

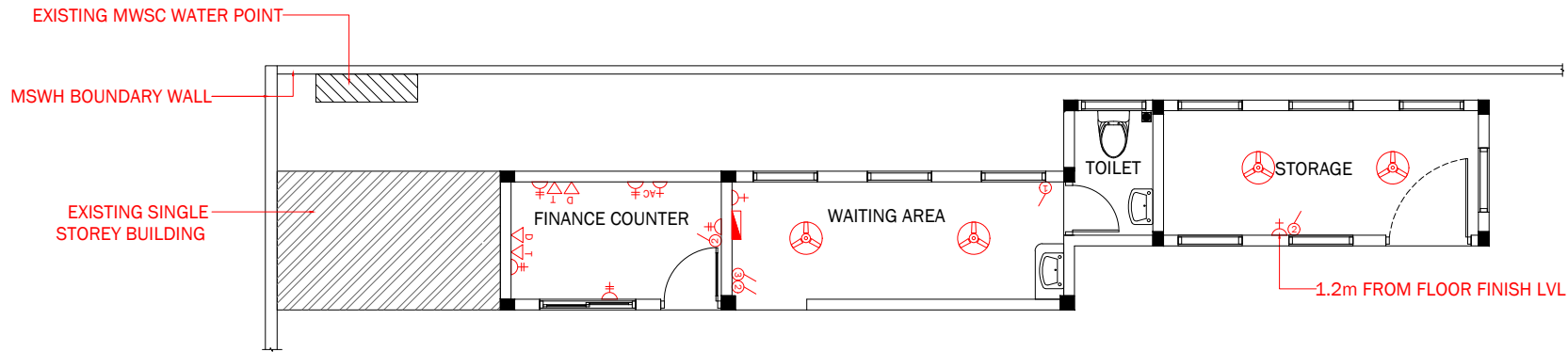
Drawing Title:

**GENERAL NOTE**

Architect: --	Architectural Checker: --
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: --
Paper: A4	Project No: --
Date: September 2022	Scale: AS GIVEN

Drawing No: **S-08/08**

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## GROUND FLOOR ELECTRICAL LAYOUT

SCALE 1:100



### ELECTRICAL POWER AND LIGHTING LEGEND

SYMBOL	DESCRIPTION	NOS
	Ø400mm CEILING MOUNT FAN (360 DEGREE GYROSCOPIC MOVEMENT/ADJUSTABLE)	04
	1GANG SWITCH	01
	2GANG SWITCH	02
	3GANG SWITCH	02
	13AMP X 1 GANG POWER SOCKET	02
	13AMP X 2 GANG POWER SOCKET	05
	15AMP X 1 GANG POWER SOCKET @ BEAM LVL	01
	DATA SOCKET (RJ45)	02
	TELEPHONE SOCKET (RJ11)	02
	CEILING RECESSED LIGHT @ CEILING LVL	09
	IP65 WALL LIGHT @ 2100 FROM FFL	03
	ELECTRICAL DISTRIBUTION BOARD	01
	CEILING MOUNT EXHAUST FAN @ CEILING LVL	01

#### IMPORTANT:

- ALL GIVEN HEIGHTS ARE FROM FINISHED FLOOR LEVEL
- ALL SWITCHES AT 1.2M HEIGHT ABOVE FINISHED FLOOR LEVEL EXCEPT WHERE SPECIFIED
- ALL SOCKETS AT 0.3M HEIGHT ABOVE FINISHED FLOOR LEVEL EXCEPT WHERE SPECIFIED
- ALL WEATHER EXPOSED LIGHTS, SWITCHES & SOCKETS AREA IP65
- CEILING MOUNT EXHAUST FAN CONNECT TO TOILET LIGHT SWITCH



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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

### SERVICES DRAWING

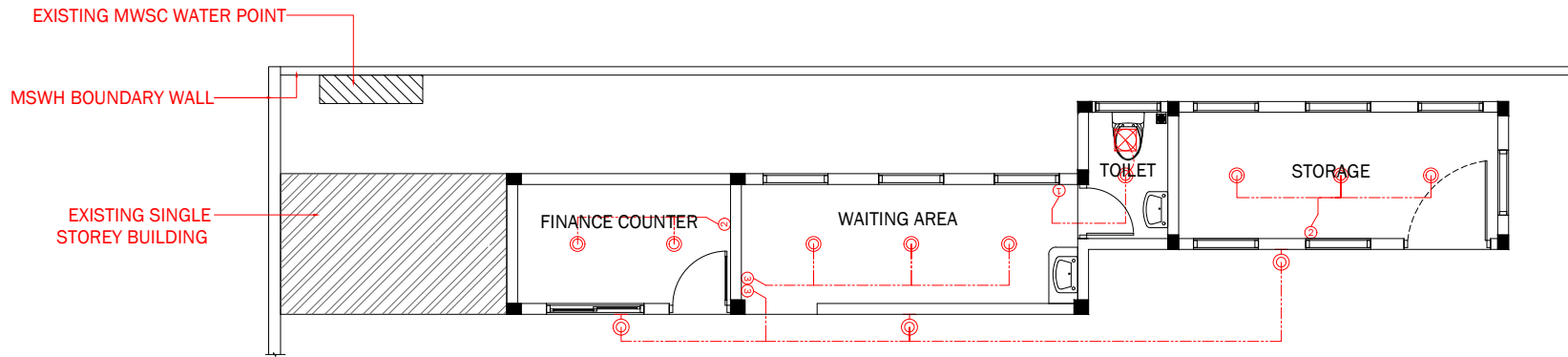
Drawing Title:

**GROUND FLOOR  
ELECTRICAL LAYOUT**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
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**SE-01/04**

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## GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



### ELECTRICAL POWER AND LIGHTING LEGEND

SYMBOL	DESCRIPTION	NOS
	Ø400mm CEILING MOUNT FAN (360 DEGREE GYROSCOPIC MOVEMENT/ADJUSTABLE)	04
	1GANG SWITCH	01
	2GANG SWITCH	02
	3GANG SWITCH	02
	13AMP X 1 GANG POWER SOCKET	02
	13AMP X 2 GANG POWER SOCKET	05
	15AMP X 1 GANG POWER SOCKET @ BEAM LVL	01
	DATA SOCKET (RJ45)	02
	TELEPHONE SOCKET (RJ11)	02
	CEILING RECESSED LIGHT @ CEILING LVL	09
	IP65 WALL LIGHT @ 2100 FROM FFL	03
	ELECTRICAL DISTRIBUTION BOARD	01
	CEILING MOUNT EXHAUST FAN @ CEILING LVL	01

#### IMPORTANT:

- ALL GIVEN HEIGHTS ARE FROM FINISHED FLOOR LEVEL
- ALL SWITCHES AT 1.2M HEIGHT ABOVE FINISHED FLOOR LEVEL EXCEPT WHERE SPECIFIED
- ALL SOCKETS AT 0.3M HEIGHT ABOVE FINISHED FLOOR LEVEL EXCEPT WHERE SPECIFIED
- ALL WEATHER EXPOSED LIGHTS, SWITCHES & SOCKETS AREA IP65
- CEILING MOUNT EXHAUST FAN CONNECT TO TOILET LIGHT SWITCH



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Maldives

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**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

### SERVICES DRAWING

Drawing Title:

**GROUND FLOOR  
LIGHTING LAYOUT**

Architect:	Architectural Checker:
Structural Engineer:	Structural Checker:
Drawn by:	Interior Designer:
Paper:	Project No.:
Date:	Scale:
September 2022	AS GIVEN
Drawing No.:	<b>SE-02/04</b>

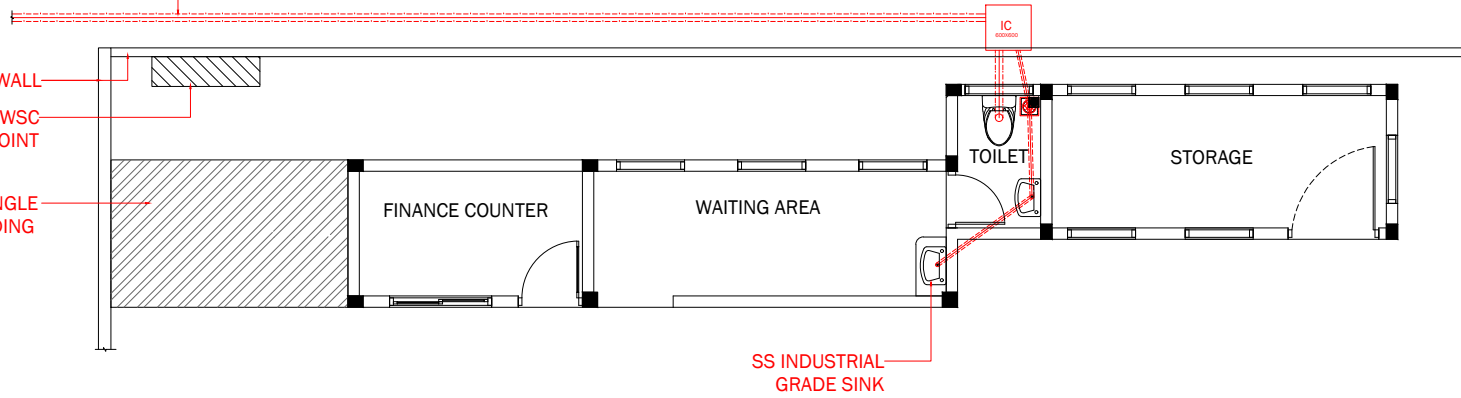
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CONNECT TO NEAREST MWSC  
MAIN IC/PIPE LINE ON THE ROAD

MSWH BOUNDARY WALL

EXISTING MWSC  
WATER POINT

EXISTING SINGLE  
STOREY BUILDING



SS INDUSTRIAL  
GRADE SINK

SANITARY & PLUMBING LEGEND

SYMBOL	DESCRIPTION	NOS
	CLEANING / RODDING EYE	--
	FLOOR TRAP WITH GULLY	01
	SHOWER	00
	BIDET SHOWER	01
	FAUCET	02
	TAP	02
	GATE VALVE / BALL VALVE	02
	ELECTRIC PUMP	--
	HDPE FRESH WATER PIPE	--
	HDPE WELL WATER PIPE	--
	Ø50mm UPVC VENT PIPE	--
	Ø50mm UPVC WASTE WATER PIPE	--
	Ø100mm UPVC SEWAGE PIPE	--
	INSPECTION CHAMBER	01

GROUND FLOOR SEWAGE LAYOUT

SCALE 1:100



Project & Facilities Management Department |  
Project Management Unit | Maldives Ports Limited  
Boduthakurufaanu magaa | Maale' Republic of  
Maldives

Tel: 3329339

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-	-	-	-
-	-	-	-
-	-	-	-
No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**SERVICES DRAWING**

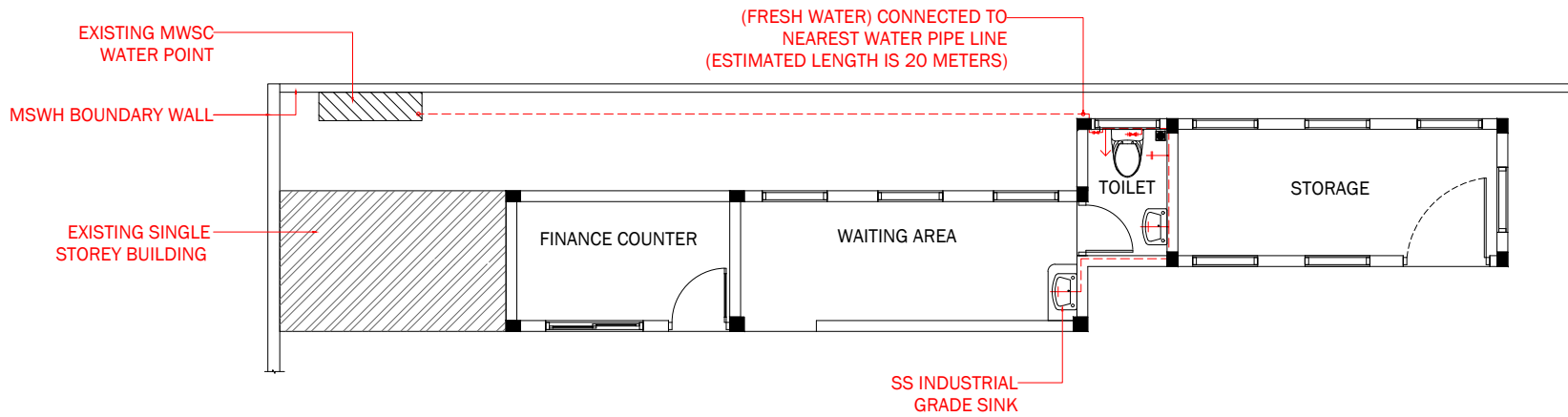
Drawing Title:

**GROUND FLOOR  
SEWAGE LAYOUT**

Architect: --	Architectural Checker: --
Structural Engineer: Adam Mohamed	Structural Checker: Ahmed Zuhai Zaeem
Drawn by: Ahmed Waseem	Interior Designer: --
Paper: A4	Project No: --
Date: September 2022	Scale: AS GIVEN

Drawing No: **SE-03/04**

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SANITARY & PLUMBING LEGEND		
SYMBOL	DESCRIPTION	NOS
	CLEANING / RODDING EYE	--
	FLOOR TRAP WITH GULLY	01
	SHOWER	00
	BIDET SHOWER	01
	FAUCET	02
	TAP	02
	GATE VALVE / BALL VALVE	02
	ELECTRIC PUMP	--
	HDPE FRESH WATER PIPE	--
	HDPE WELL WATER PIPE	--
	Ø50mm UPVC VENT PIPE	--
	Ø50mm UPVC WASTE WATER PIPE	--
	Ø100mm UPVC SEWAGE PIPE	--
	INSPECTION CHAMBER	01

## GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100



Project & Facilities Management Department |  
Project Management Unit | Maldives Ports Limited  
Boduthakurufaanu maga | Male' Republic of  
Maldives

Tel: 3329339

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No.	Revision	Checked By	Date

Project Title:

**WATER SERVICE AREA  
(FENGE) AT SOUTH  
WEST HARBOUR**

Client:

**MALDIVES PORTS  
LIMITED (MPL)**

**SERVICES DRAWING**

Drawing Title:

**GROUND FLOOR  
PLUMBING LAYOUT**

Architect: -- Architectural Checker: --

Structural Engineer: Adam Mohamed Structural Checker: Ahmed Zuhai Zaeem

Drawn by: Ahmed Waseem Interior Designer: --

Paper: A4 Project No: --

Date: September 2022 Scale: AS GIVEN

Drawing No: **SE-04/04**

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Date: March 2023

## **SCOPE OF WORKS**

### **PROJECT: CONSTRUCTION OF WATER SERVICE AREA (FENGE) AT SOUTH WEST HARBOUR**

#### **1. GENERAL DESCRIPTION**

Maldives Ports Limited has a requirement to expand the existing water service area to facilitate the growing needs at Male' Southwest Harbour. The works shall be done as per drawings, the scope of work, and general contract conditions.

The Contractor shall provide all labor, material tools, equipment, supervision, and other related items required to complete the project as per the scope of work and attached drawings.

#### **2. SCOPE OF WORK**

The general scope of work can be summarized as follows:

- Construction of a finance counter, storeroom, waiting room, and toilet
  - Concrete Works, Masonry & Plastering Works, Ceiling Works, Tiling Works, Plumbing & Electrical Works.
- Site Cleaning & Disposing of surplus materials.

#### **3. SITE LOCATION**

The project site is located inside Male' South West Harbour (T Jetty).

#### **4. WORKING HOURS**

Working hours shall be 8:00 hrs to 22:30 hrs. Saturday to Thursday. No work shall be done on public holidays and port holidays without prior approval from MPL.

## **5. EXECUTION OF WORK**

On award of the work, the Contractor shall submit all items below via email:

- a) Proposed start date
- b) Weekly schedule/activity plan for the duration of the project prior to the start *date*.
- c) For dismantling/blocking or making a connection to any existing services or any shut-down, the contractor shall inform the MPL at least 1 working day in advance and proceed with the work only after permission from the MPL.

## **6. PROGRESS REPORT**

- a) The Contractor shall submit weekly progress reports to the employer which shall be prepared to a format acceptable to the employer.
- b) Daily logbook will be set up at the site to be signed at the end of each working day by the representative from the contractor and MPL.
- c) Weekly site meetings attended by all Parties shall be conducted at an agreed location to discuss the progress of the project and the minutes of such meetings shall become part of this contract.

## **7. MATERIALS**

- a) All materials used on this work shall be new and approved by MPL.
- b) The contractor shall submit material samples and catalog for pre-approval.
- c) Any changes/substitutes on material shall be approved by MPL before proceeding.
- d) All materials shall be stored in a proper manner and protected from natural elements to avoid deterioration.
- e) The contractor shall provide at his own expenses all materials, labor, tools and equipment including all necessary transport for the proper execution and completion of the works.

## **8. SITE CLEARANCE AND CLEANUP**

On completion of the project, The Contractor shall clear away all debris and excess materials accumulated at the site and dispose of it away from the premises, maintaining a neat site condition.

## **9. SECURITY CLEARANCE**

- a) The contractor shall give workers' names at least 2 days in advance to get the security clearance.
- b) All team workers shall have an official photo ID or photo ID with the company name on it.
- c) The Contractor shall inform and provide in writing transportation details vehicle registration number, driver's name, and date of delivery to MPL at least 24 hours in advance for material deliveries.



## 10. SAFETY

- a) The contractor shall provide all Personal Protective Equipment for the workers as per the requirement of the site and ensure safety of workmen, Employers staff and any third party.
  - i. Work will be stopped in case the proper protective equipment is not found with the workers and the lapse of time shall be at the Contractor's expense.
  - ii. MPL reserves the right to suspend work when and where Contractor's safety and health program is considered to be operating in an inadequate or non-complying manner.
- b) Contractor should take all safety measures and all precautions to prevent any damages to Employer's installation, equipment or any other utility or features and if any damage occurs the contractor should pay the cost of repair for the respective party.

### **NOTE**

**The Bidder should thoroughly go through Scope of Works, Drawings and the worksite, and should include all necessary costs not included in BOQ as Addition / Omission Bill. If there are any concerns regarding anything the bidder should inform MPL and have it sorted out before quoting for the works.**

1. All works is to be carried out with good workmanship practice to the satisfaction of Maldives Ports Limited.
2. Maldives Ports Limited will provide ELECTRICITY & WATER required for the work. (Contractor shall provide an electricity Board as per the standards of STELCO)
3. Special consideration shall be given NOT to disrupt any ongoing works of inside the boundaries of MPL site and adjacent sites. Contractor is to co-ordinate with Projects Management Department of MPL in coming up with a proper work schedule.