

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## PUBLIC ADDRESS SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

1	2023.12.14	TENDER ISSUE	PB
0	2023.09.22	PROPOSED	PB

Rev. | Date | Description | Approved


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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

Supported & Funded By:

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD,

114A, KOSIWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

PA SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	EL	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
KDS	MCQ	PB	1	A1	-

Issue Date:  
2023.12.14

		DRAWING LIST - PA SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-PR-EL-CV-0001	PA SYSTEM - COVER SHEET	R1
02	23553-01-PR-EL-DL-0002	PA SYSTEM - DRAWING LIST	R1
03	23553-01-PR-EL-PV-5650	PA SYSTEM - GROUND FLOOR	R1
04	23553-01-PR-EL-PV-5651	PA SYSTEM - FIRST FLOOR	R1
05	23553-01-PR-EL-PV-5652	PA SYSTEM - SINGLE LINE DIAGRAM	R1

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDER ISSUE	PB
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114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

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STRUCTURAL CONSULTANTS

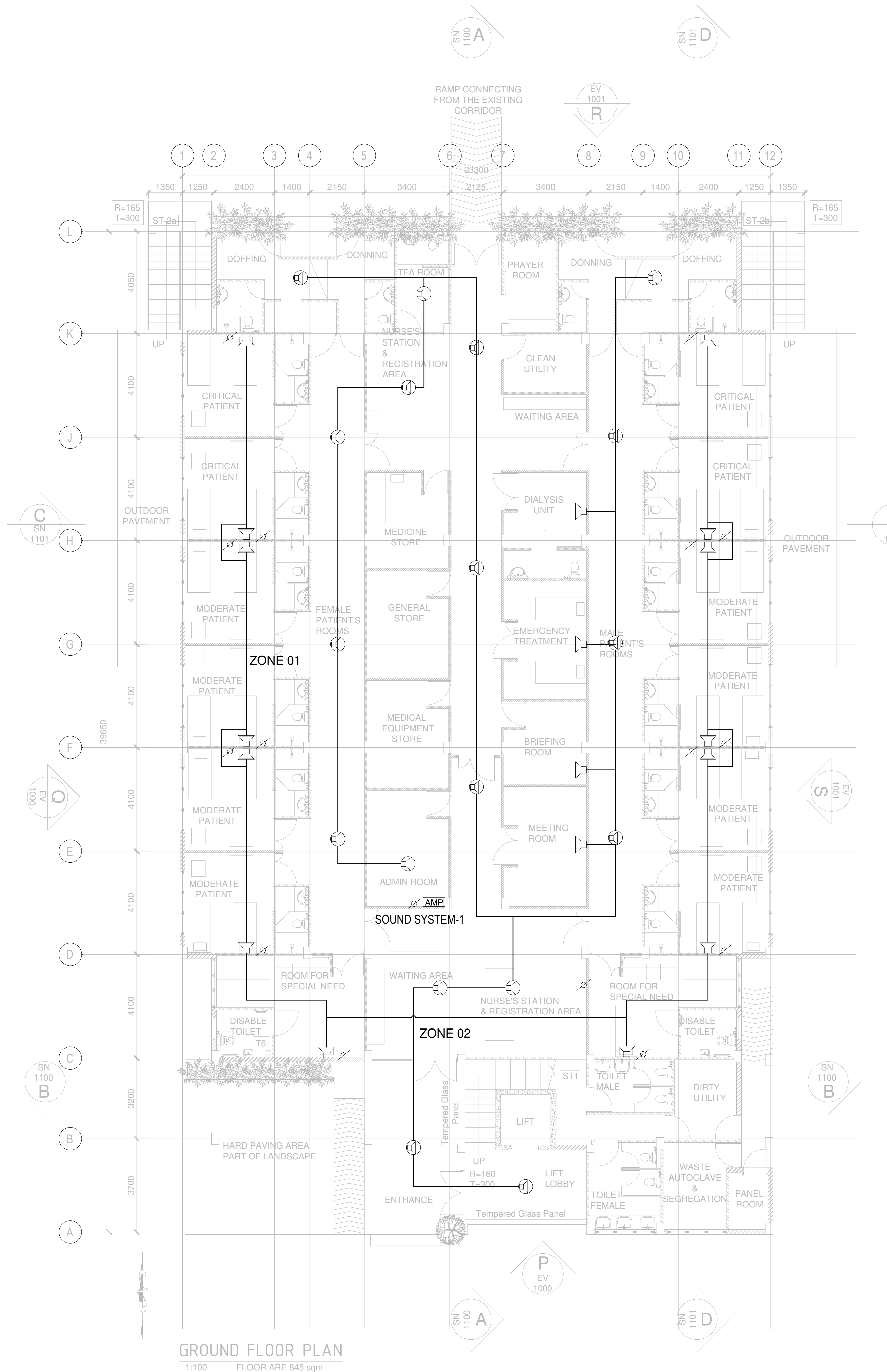
Drawing Title:

PA SYSTEM  
DRAWING LIST

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	EL	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
KDS	MCQ	PB	1	A1	-

2023.12.14

TENDERING ONLY



GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

Key Map:

General Legend:

SYMBOL	DESCRIPTION
	CEILING SPEAKER (GENERAL)
	WALL SPEAKER (GENERAL)
	WALL MOUNTED COLUMN SPEAKER
	SPEAKER CONTROLLER UNIT
	AMPIFIER

Drawing Notes:

Rev.	Date	Description	Approved
1	2023.12.14	TENDER ISSUE	PB
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Implementation:

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OFFICE, SRI LANKA

2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD.

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



Drawing Title:

PA SYSTEM  
GROUND FLOOR

Project No.: SUB No.: Stage: Discipline: Subject: Seq No.:

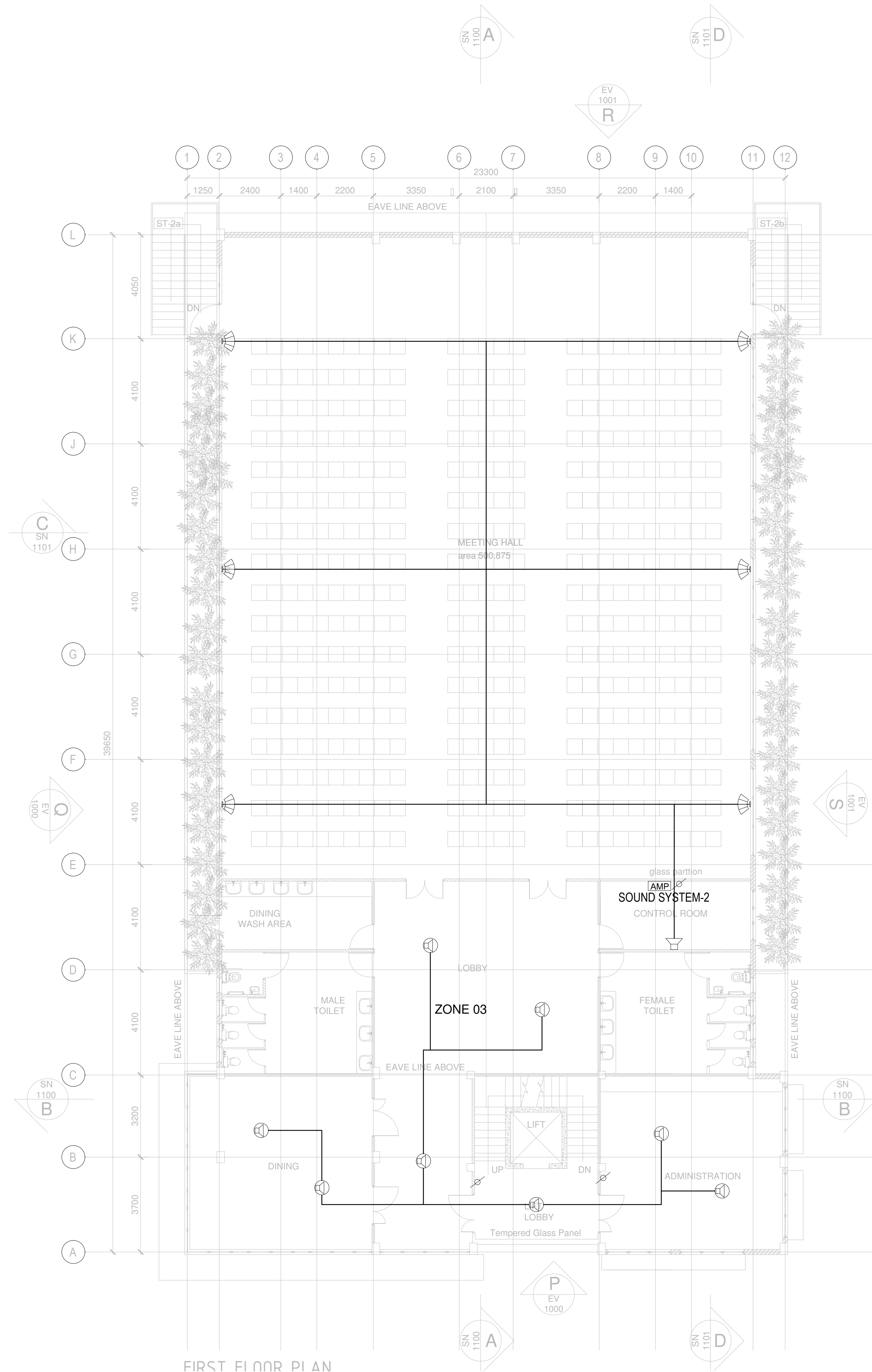
23553 01 TN EL PV 5650

Drawn: Check: Appr: Rev: Size: Scale: Issue Date:

KDS MCQ PB 1 A1 1:100 2023.12.14

TENDERING ONLY





Key Map:

General Legend:

SYMBOL	DESCRIPTION
	CEILING SPEAKER (GENERAL)
	WALL SPEAKER (GENERAL)
	WALL MOUNTED COLUMN SPEAKER
	SPEAKER CONTROLLER UNIT
	AMPLIFIER

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EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUTHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUTHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

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Implementation:

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**UNOPS**

Design:

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**URO**  
STRUCTURAL CONSULTANTS

Drawing Title:

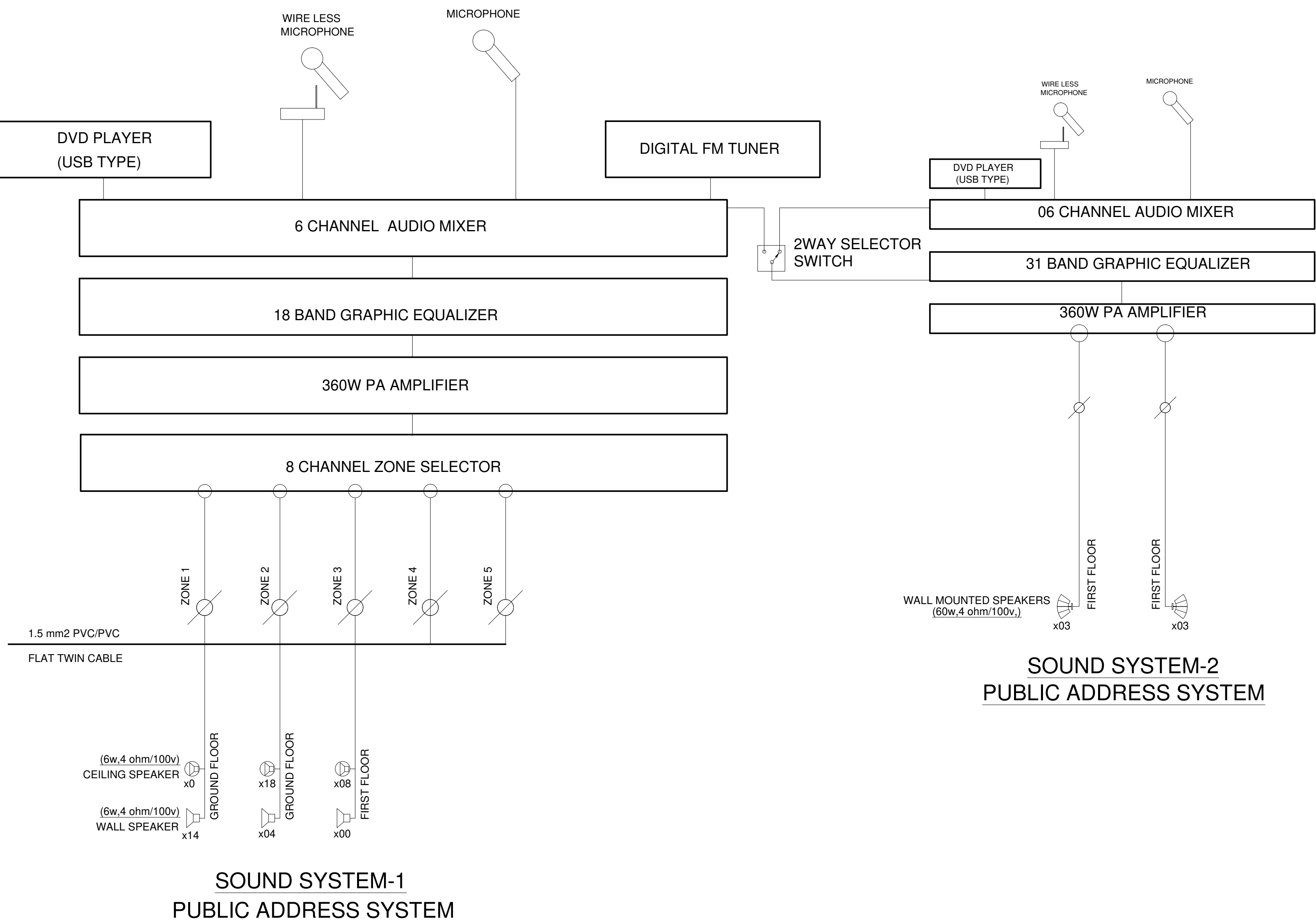
PA SYSTEM  
FIRST FLOOR

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	EL	PV	5651
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
KDS	MCQ	PB	1	A1	1:100

2023.12.14

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Key Map:

General Legend:

Drawing Notes:				
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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00703,  
SRI LANKA

 **UNOPS**

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD.

114A, KOSIWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

 **URO**  
STRUCTURAL CONSULTANTS

Drawing Title:

PA SYSTEM  
SINGLE LINE DIAGRAM

Project No.:		SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553		01	TN	EL	PV	5652
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
KDS	MCG	PB	1	A1	1:100	2023.12.14

TENDERING ONLY

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## AIR CONDITIONING & VENTILATION SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB


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Implementation:


UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD,  
  
114A, KOSIWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

AIR CONDITIONING & VENTILATION  
SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	AC	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
NRS	HE	PB	3	A1	NTS

Issue Date:  
2023.12.14

		DRAWING LIST - AIR CONDITIONING & VENTILATION SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-AC-CV-0001	AIR CONDITIONING & VENTILATION SYSTEM - COVER SHEET	R3
02	23553-01-TN-AC-DL-0002	AIR CONDITIONING & VENTILATION SYSTEM - DRAWING LIST	R3
03	23553-01-TN-AC-AV-4400	AIR CONDITIONING & VENTILATION SYSTEM - GROUND FLOOR PLAN	R3
04	23553-01-TN-AC-AV-4401	AIR CONDITIONING & VENTILATION SYSTEM - FIRST FLOOR PLAN	R3

Key Map:

General Legend:

Drawing Notes:

3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD,

114A, KOISWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



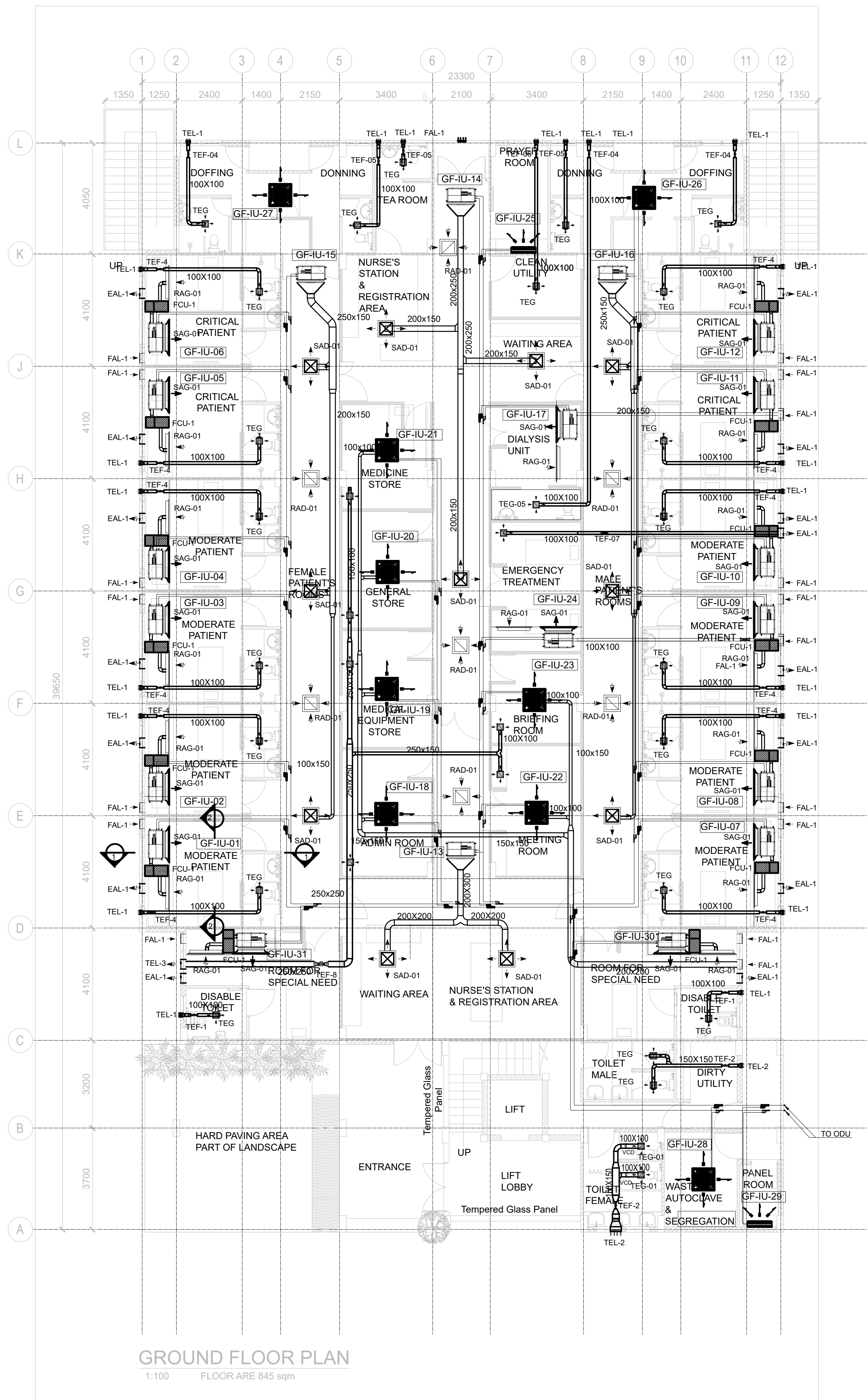
Drawing Title:

AIR CONDITIONING & VENTILATION  
SYSTEM  
DRAWING LIST

Project No.:		SUB No.:		Stage:	Discipline:	Subject:	Seq No.:
23553		01		TN	AC	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:	
NRS	HE	PB	3	A1	NTS	2023.12.14	

TENDERING ONLY





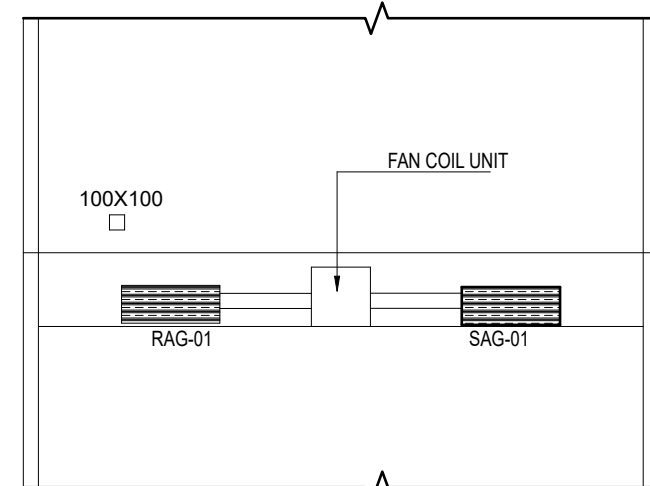
GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

GROUND FLOOR SCHEDULE FAN COIL UNIT WITH HEPA FILTERS		
REF.NO	TYPE	QUANTITY (NOS)
FCU-1	FAN COIL UNIT	14

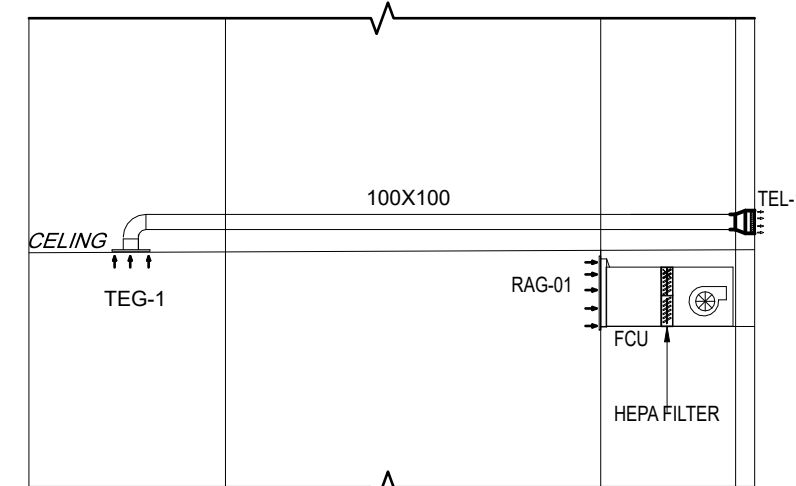
GROUND FLOOR SCHEDULE VRV TYPE AIR CONDITIONERS - SYSTEM 01		
REF.NO	TYPE	CAPACITY(TR)
GF-IU-01	FAN COIL UNIT	2.2
GF-IU-02	FAN COIL UNIT	2.2
GF-IU-03	FAN COIL UNIT	2.2
GF-IU-04	FAN COIL UNIT	2.2
GF-IU-05	FAN COIL UNIT	2.2
GF-IU-06	FAN COIL UNIT	2.2
GF-IU-07	FAN COIL UNIT	2.2
GF-IU-08	FAN COIL UNIT	2.2
GF-IU-09	FAN COIL UNIT	2.2
GF-IU-10	FAN COIL UNIT	2.2
GF-IU-11	FAN COIL UNIT	2.2
GF-IU-12	FAN COIL UNIT	2.2
GF-IU-13	FAN COIL UNIT	2.3
GF-IU-14	FAN COIL UNIT	2.4
GF-IU-15	FAN COIL UNIT	2
GF-IU-16	FAN COIL UNIT	2
GF-IU-17	FAN COIL UNIT	0.8
GF-IU-18	FAN COIL UNIT	1.1
GF-IU-19	CEILING CASSETTE	0.8
GF-IU-20	CEILING CASSETTE	0.8
GF-IU-21	CEILING CASSETTE	0.8
GF-IU-22	CEILING CASSETTE	1.1
GF-IU-23	CEILING CASSETTE	0.8
GF-IU-24	CEILING CASSETTE	1.1
GF-IU-25	WALL MOUNTED	1.0
GF-IU-26	CEILING CASSETTE	1.5
GF-IU-27	CEILING CASSETTE	1.5
GF-IU-28	CEILING CASSETTE	1.5
GF-IU-29	WALL MOUNTED	1.0
GF-IU-30	FAN COIL UNIT	1.5
GF-IU-31	FAN COIL UNIT	1.5

SCHEDULE OF VENTILATION FAN			
TAG	TYPE	AIR FLOW RATE (l/s @ Pa)	QUANTITY (NOS)
TEF-1	DUCTED TYPE EXHAUST FAN	40 @ 50	02
TEF-2	DUCTED TYPE EXHAUST FAN	60 @ 50	01
TEF-3	DUCTED TYPE EXHAUST FAN	90 @ 50	01
TEF-4	DUCTED TYPE EXHAUST FAN	45 @ 50	15
TEF-5	DUCTED TYPE EXHAUST FAN	30 @ 50	03
TEF-6	DUCTED TYPE EXHAUST FAN	140 @ 50	01
TEF-7	DUCTED TYPE EXHAUST FAN	460 @ 50	01
TEF-8	DUCTED TYPE EXHAUST FAN	550 @ 50	01

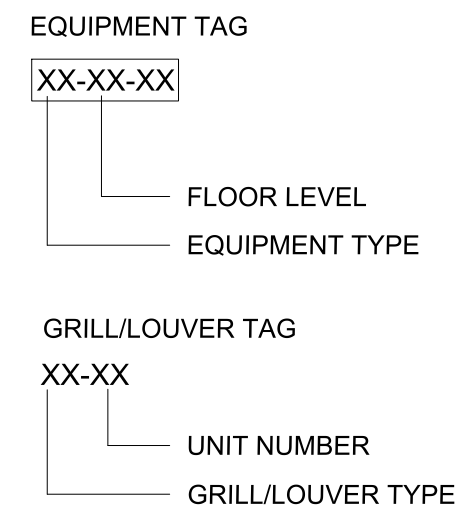
SCHEDULE OF GRILLS/ DIFFUSERS & LOUVERS			
TAG	TYPE	SIZE IN MM	QUANTITY (NOS)
SAD-1	SUPPLY AIR 4WAY DIFFUSER	450X450	11
RAD-1	RETURN AIR 4WAY DIFFUSER	450X450	07
RAG-1	RETURN AIR EGG CRATE GRILL	600X250	16
SAG-1	SUPPLY AIR EGG CRATE GRILL	600X250	16
TEG	EXHAUST AIR EGG CRATE GRILL	250X250	32
TEL-1	WEATHER PROOF TYPE TOILET EXHAUST AIR LOUVER C/W INSECT MESH	150X150	22
TEL-2	WEATHER PROOF TYPE TOILET EXHAUST AIR LOUVER C/W INSECT MESH	250X250	2
TEL-3	WEATHER PROOF TYPE TOILET EXHAUST AIR LOUVER C/W INSECT MESH	300X300	1
FAL-1	WEATHER PROOF TYPE FRESH AIR LOUVER C/W INSECT MESH	250X250	19
EAL-1	WEATHER PROOF TYPE EXHAUST AIR LOUVER C/W INSECT MESH	250X250	19



VIEW 2-2



VIEW 1-1



LEGEND	
—	FRESH AIR DUCT
RE —	REFRIGERANT SUPPLY LINE
General Legend	REFRIGERANT SUCTION LINE
	CEILING CASSETTE INDOOR UNIT
	VRV OUTDOOR UNIT
	VOLUME CONTROL DAMPER
	PIPE BRANCH JOINT
	TOILET EXHAUST GRILL
	EXHAUST AIR LOUVER
	FRESH AIR LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	FAN COIL UNIT WITH HEPA FILTER < 0.3MICRON
	AIR HANDLING UNIT
	SUPPLY AIR GRILL
	RETURN AIR GRILL
SAG-02	LINEAR SLOT SUPPLY AIR GRILL 19MM SLOT WIDTH,3 SLOTS
RAG-02	LINEAR SLOT RETURN AIR GRILL 19MM SLOT WIDTH,3 SLOTS

- NOTES :
- ALL EXPOSED PIPES SHALL BE CLADED WITH AL LAYER
  - DIMENSIONS OF OUTDOOR & INDOOR UNITS ARE INDICATIVE ONLY.  
(CAN BE VARY WITH EQUIPMENT MAKES)

Drawing Notes:			
3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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MALDIVES  
 Ministry of Health  
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Implementation:  
UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA  
2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA  
 UNOPS

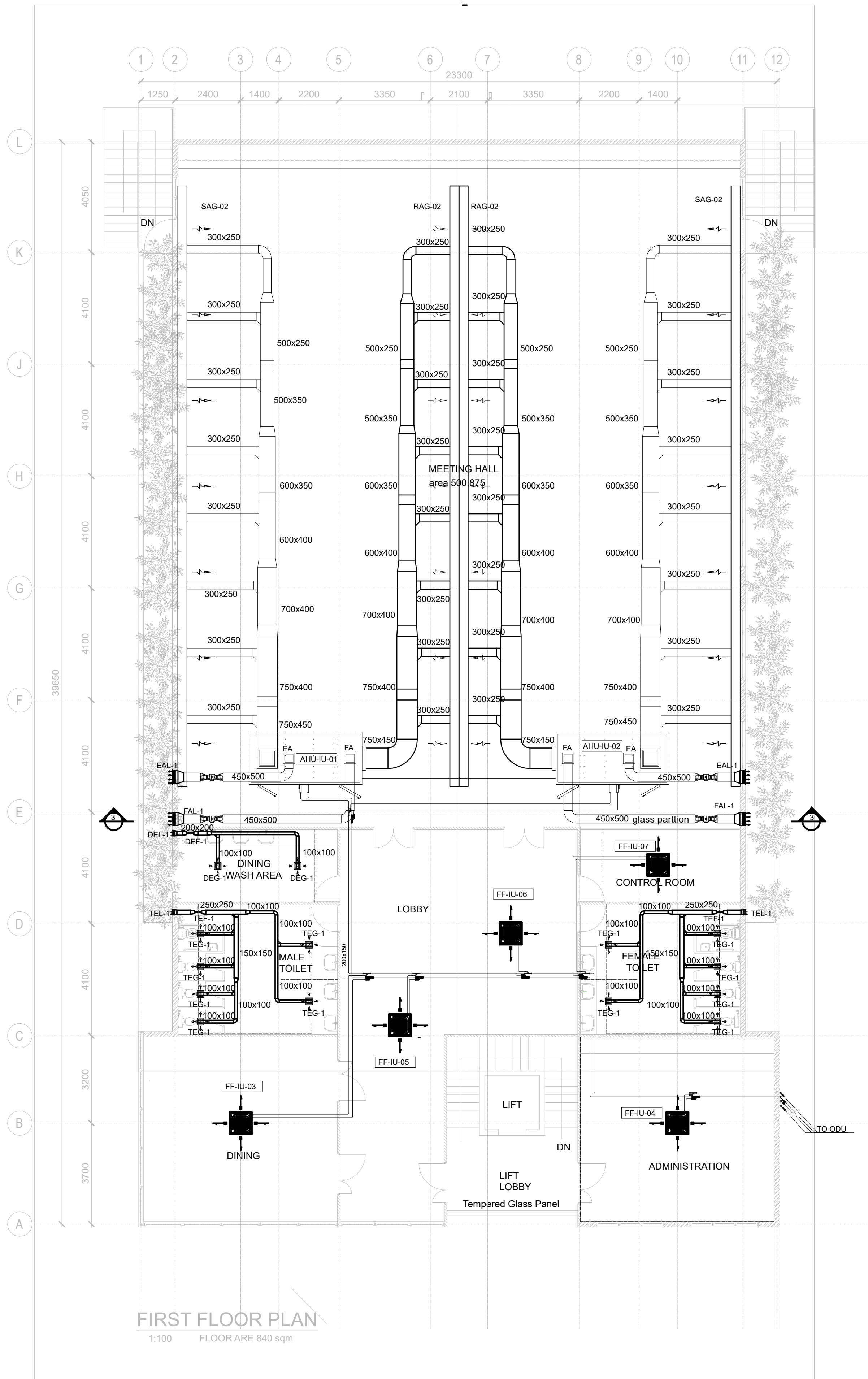
Design:  
URO STRUCTURAL CONSULTANTS (PVT) LTD,  
114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA  
 URO  
STRUCTURAL CONSULTANTS

Drawing Title:  
AIR CONDITIONING & VENTILATION  
SYSTEM  
GROUND FLOOR

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	AC	AV	4400
Drawn:	Check:	Appr:	Rev:	Size:	Scale:
NRS	HE	PB	3	A1	1:100
Issue Date: 2023.12.14					

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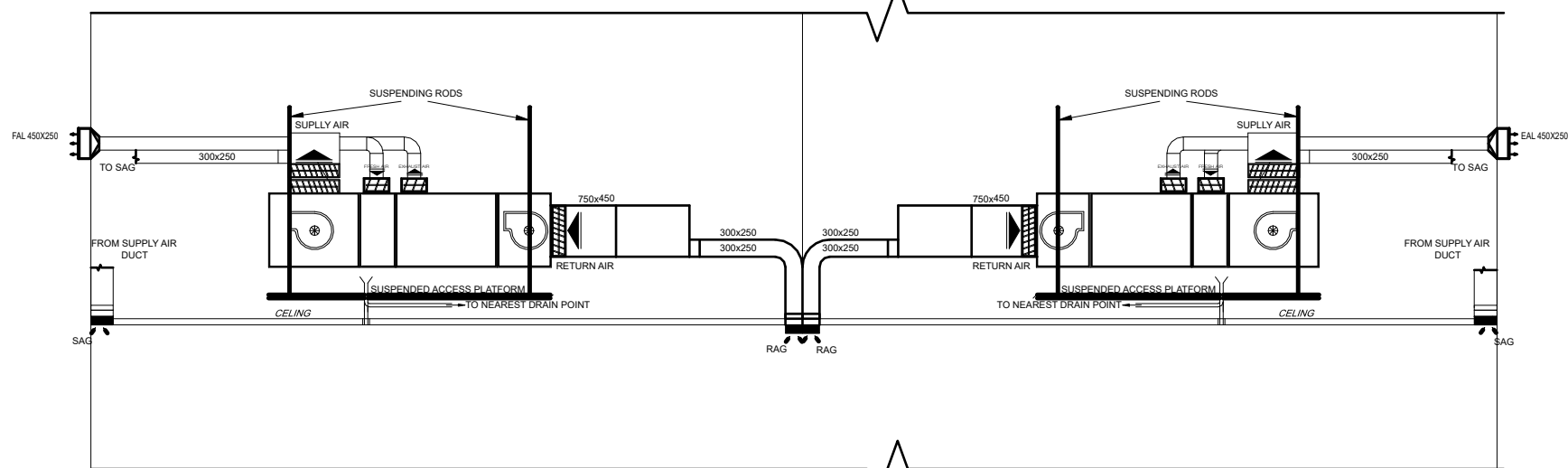




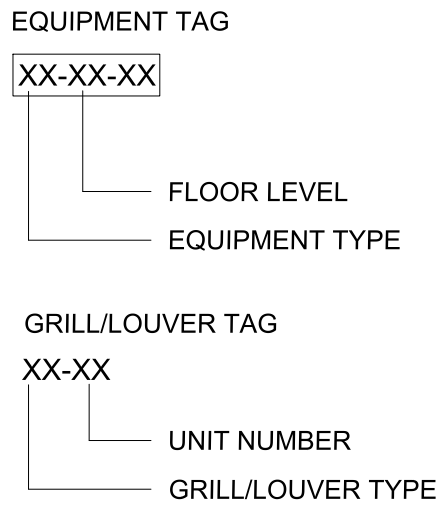
FIRST FLOOR SCHEDULE VRV TYPE AIR CONDITIONERS - SYSTEM 01		
REF.NO	TYPE	CAPACITY(TR)
AHU-IU-01	AIR HANDLING UNIT	35
AHU-IU-02	AIR HANNDLING UNIT	35
FF-IU-03	CEILING CASSETTE	2.5
FF-IU-04	CEILING CASSETTE	2.5
FF-IU-05	CEILING CASSETTE	1.5
FF-IU-06	CEILING CASSETTE	1.5
FF-IU-07	CEILING CASSETTE	1.5

SCHEDULE OF VENTILATION FAN			
TAG	TYPE	AIR FLOW RATE (l/s @ Pa)	QUANTITY (NOS)
TEF-1	DUCTED AXIAL FLOW TYPE EXHAUST FAN	235 @ 100	02
DEF-1	DUCTED AXIAL FLOW TYPE EXHAUST FAN	135 @ 80	01

SCHEDULE OF GRILLS/ DIFFUSERS & LOUVERS			
TAG	TYPE	SIZE IN MM	QUANTITY (NOS)
SAG-2	LINEAR TYPE SUPPLY AIR GRILL	22000L X 250W	02
RAG-2	LINEAR TYPE RETURN AIR GRILL	22000L X 250W	02
TEG-1	TOILET EXHAUST AIR GRILL EGG CRATE TYPE	250X250	12
DEG-1	DINING EXHAUST AIR GRILL EGG CRATE TYPE	250X250	02
FAL-1	WEATHER PROOF TYPE FRESH AIR LOUVER C/W INSECT MESH	500X550	02
EAL-1	WEATHER PROOF TYPE EXHAUST AIR LOUVER C/W INSECT MESH	500X550	02
TEL-1	WEATHER PROOF TYPE TOILET EXHAUST AIR LOUVER C/W INSECT MESH	300X300	02
DEL-1	WEATHER PROOF TYPE DINING EXHAUST AIR LOUVER C/W INSECT MESH	250X250	01



MEETING HALL  
FIRST FLOOR PLAN  
SECTION VIEW 3-3



LEGEND	
—	FRESH AIR DUCT
RE —	REFRIGERANT SUPPLY LINE
General Legend	REFRIGERANT SUCTION LINE
	CEILING CASSETTE INDOOR UNIT
	VRV OUTDOOR UNIT
	VOLUME CONTROL DAMPER
	PIPE BRANCH JOINT
	TOILET EXHAUST GRILL
	EXHAUST AIR LOUVER
	FRESH AIR LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	FAN COIL UNIT WITH HEPA FILTER < 0.3MICRON
	AIR HANDLING UNIT
	SUPPLY AIR GRILL
	RETURN AIR GRILL
SAG-02	LINEAR SLOT SUPPLY AIR GRILL 19MM SLOT WIDTH,3 SLOTS
RAG-02	LINEAR SLOT RETURN AIR GRILL 19MM SLOT WIDTH,3 SLOTS

NOTES :

1. ALL EXPOSED PIPES SHALL BE CLADED WITH AL LAYER

2. DIMENSIONS OF OUTDOOR & INDOOR UNITS ARE INDICATIVE ONLY.  
(CAN BE VARY WITH EQUIPMENT MAKES)

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Client:

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KULHUTHUFFUSHI REGIONAL HOSPITAL  
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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD,

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

Drawing Title:

AIR CONDITIONING & VENTILATION  
SYSTEM  
FIRST FLOOR

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	AC	AV	4401
Drawn:	Check:	Appr:	Rev:	Size:	Issue Date:
NRS	HE	PB	3	A1	1:100, 2023.12.14

TENDERING ONLY

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## FIRE ALARM SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB


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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

Supported & Funded By:

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ASIAN INFRASTRUCTURE INVESTMENT  
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ASIAN INFRASTRUCTURE  
INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

FIRE ALARM SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	DT	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100

2023.12.14



		DRAWING LIST - FIRE ALARM SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-DT-CV-0001	FIRE ALARM SYSTEM - COVER SHEET	R2
02	23553-01-TN-DT-DL-0002	FIRE ALARM SYSTEM - DRAWING LIST	R2
03	23553-01-TN-DT-FA-4800	FIRE ALARM SYSTEM - GROUND FLOOR PLAN	R2
04	23553-01-TN-DT-FA-4801	FIRE ALARM SYSTEM - FIRST FLOOR PLAN	R2

Key Map:

General Legend:

Drawing Notes:

23553

01

TN


DT

DL

0002


Project Name:  
EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:  
MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES  


Ministry of Health  
Republic of Maldives


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BANK

ASIAN INFRASTRUCTURE  
INVESTMENT BANK

Implementation:  
UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA  
2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA  


Design:  
URO STRUCTURAL CONSULTANTS (PVT) LTD  
114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA  


Drawing Title:  
FIRE ALARM SYSTEM  
DRAWING LIST

Project No.:

SUB No.:

Stage:

Discipline:

Subject:

Seq No.:

23553

01

TN

DT

DL

0002

Drawn:

Check:

Appr.:

Rev.:

Size:

Scale:

Issue Date:

BS

HE

PB

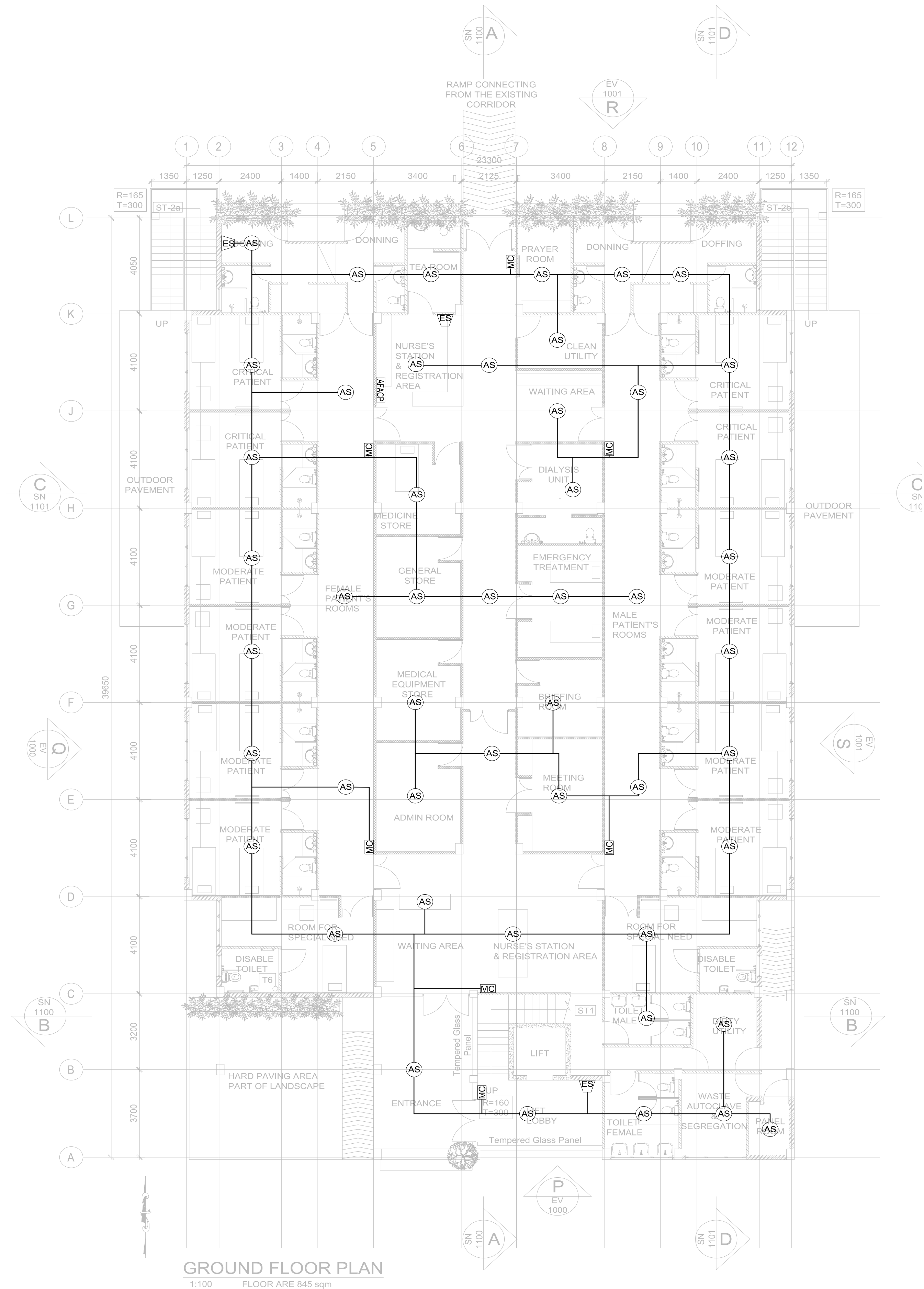
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A1

1:100

2023.12.14

TENDERING ONLY



GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

Key Map:

General Legend:

LEGEND	
ES	FIRE ALARM
MC	MANUAL CALL POINT
AS	ADDRESSABLE TYPE SMOKE DETECTOR
AFACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
GM	CONTROL MODULE

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

Rev: Date Description Approved

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Supported & Funded By:

THE WORLD BANK

ASIAN INFRASTRUCTURE INVESTMENT  
BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

Drawing Title:

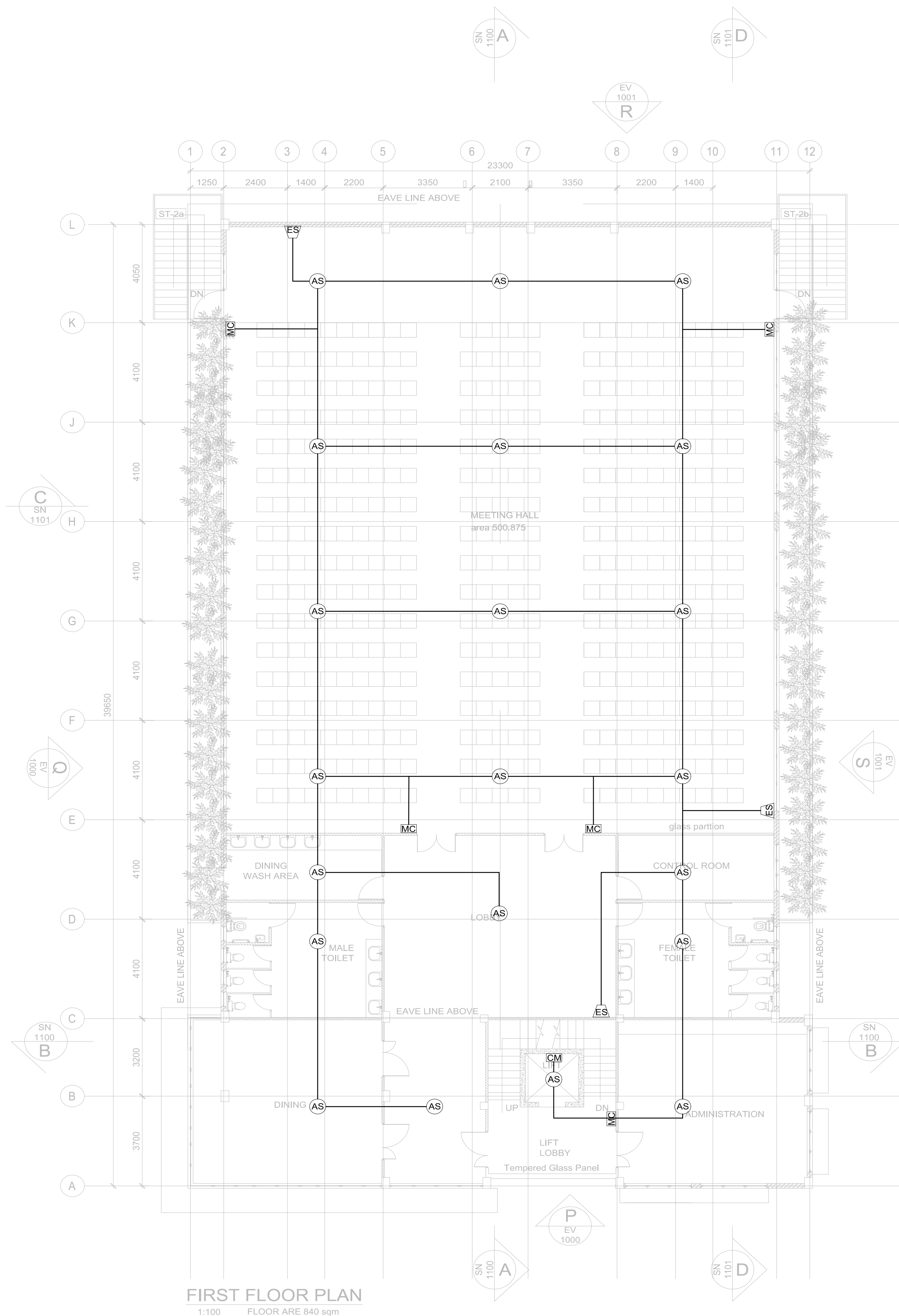
FIRE ALARM SYSTEM  
GROUND FLOOR PLAN

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	DT	FA	4800
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100

Issue Date:	2023.12.14
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TENDERING ONLY





FIRST FLOOR PLAN  
1:100 FLOOR ARE 840 sqm

Key Map:

General Legend:

LEGEND	
ES	FIRE ALARM
MC	MANUAL CALL POINT
AS	ADDRESSABLE TYPE SMOKE DETECTOR
AFACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
CM	CONTROL MODULE

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB


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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUTHUFFUSHI ISLAND IN MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUTHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


 Ministry of Health  
Republic of Maldives

Supported & Funded By:

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ASIAN INFRASTRUCTURE INVESTMENT BANK

 ASIAN INFRASTRUCTURE INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA


2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA

 UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

 URO  
STRUCTURAL CONSULTANTS

Drawing Title:

FIRE ALARM SYSTEM  
FIRST FLOOR PLAN

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	DT	FA	4801

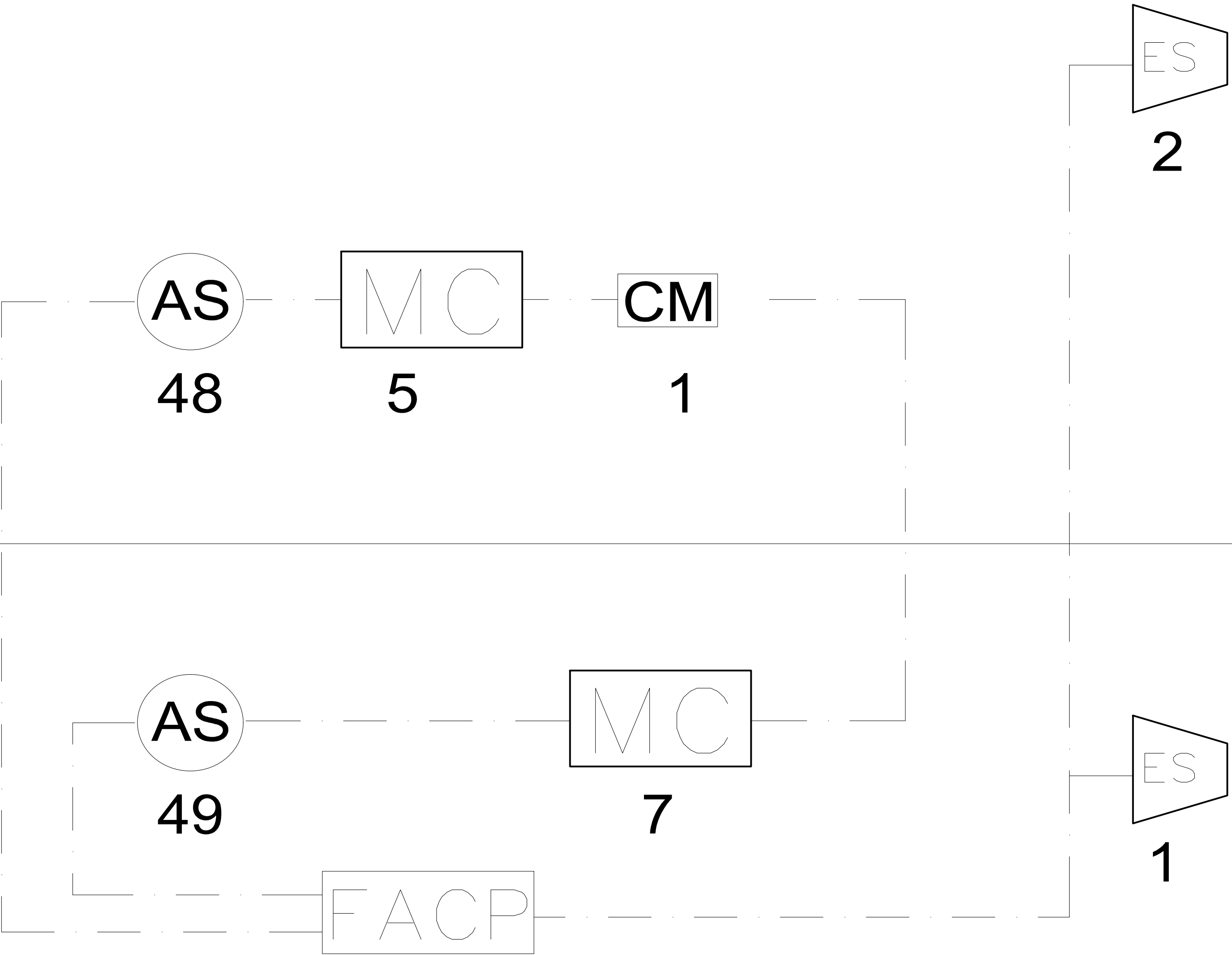
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	2	A1	1:100	2023.12.14

TENDERING ONLY



FIRST FLOOR

GROUND FLOOR



TENDERING ONLY

Key Map:

General Legend:

LEGEND	
ES	FIRE ALARM
MC	MANUAL CALL POINT
AS	ADDRESSABLE TYPE SMOKE DETECTOR
AFACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
CM	CONTROL MODULE

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

Client:

MINISTRY OF HEALTH, KULHUDHUFFUSHI REGIONAL HOSPITAL, MALDIVES

Supported & Funded By:

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ASIAN INFRASTRUCTURE INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA

2 DON CAROLUS RD, COLOMBO 00700, SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA, RAJAGIRIYA, PC 10107, COLOMBO, SRI LANKA

Drawing Title:

FIRE ALARM SYSTEM SCHEMATIC DIAGRAM

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	DT	FA	4801

Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	2	A1	1:100	2023.12.14

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## FIRE FIGHTING SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB
Rev.	Date	Description	Approved


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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

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ASIAN INFRASTRUCTURE  
INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

FIRE FIGHTING SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	FF	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100
					2023.12.14

		DRAWING LIST - FIRE FIGHTING SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-DT-CV-0001	FIRE FIGHTING SYSTEM - COVER SHEET	R2
02	23553-01-TN-DT-DL-0002	FIRE FIGHTING SYSTEM - DRAWING LIST	R2
03	23553-01-TN-FF-FF-4510	FIRE FIGHTING SYSTEM - GROUND FLOOR PLAN	R2
04	23553-01-TN-FF-FF-4511	FIRE FIGHTING SYSTEM - FIRST FLOOR PLAN	R2

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Ministry of Health  
Republic of Maldives

Supported & Funded By:

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ASIAN INFRASTRUCTURE INVESTMENT  
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



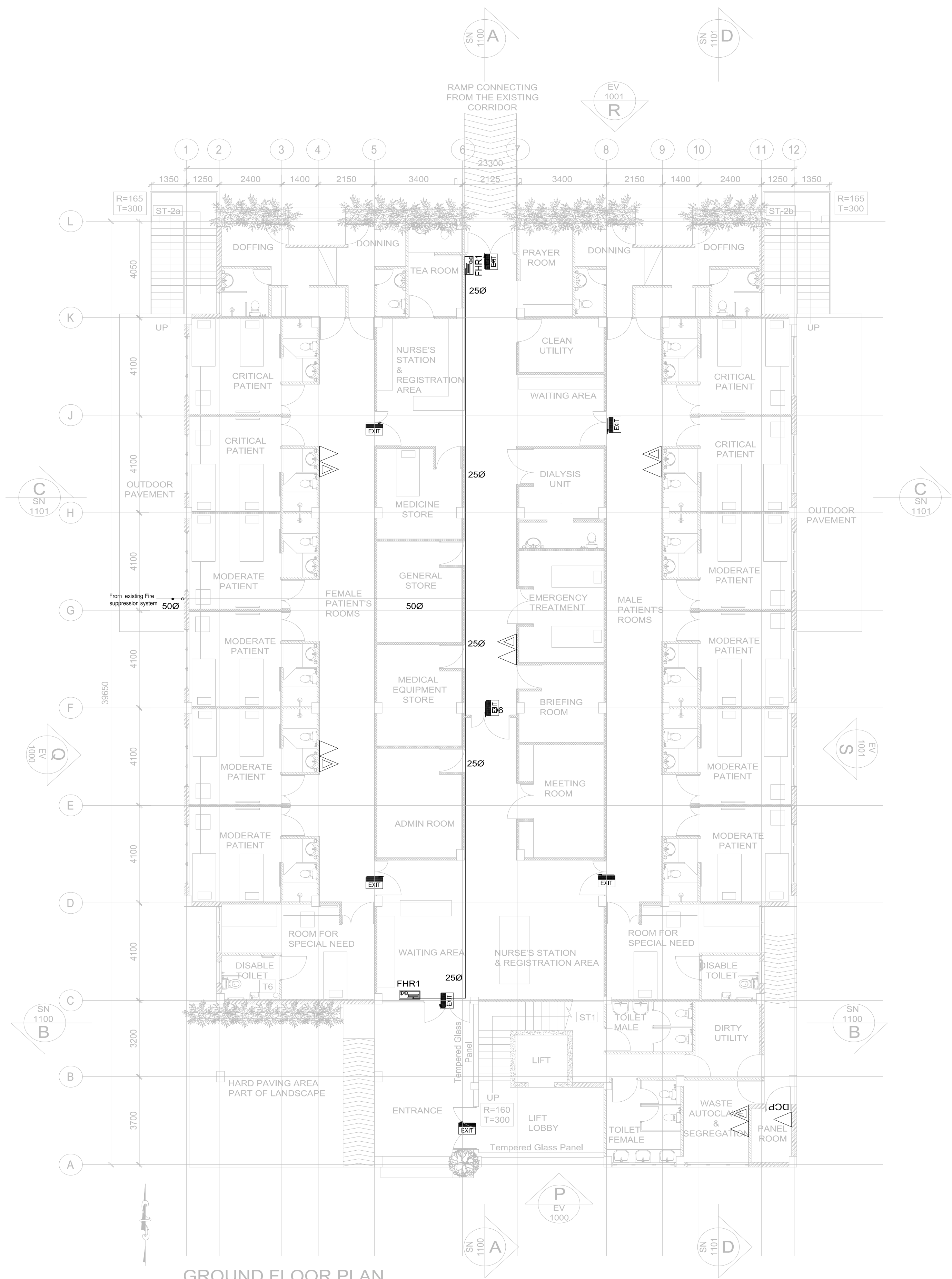
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FIRE FIGHTING SYSTEM  
DRAWING LIST

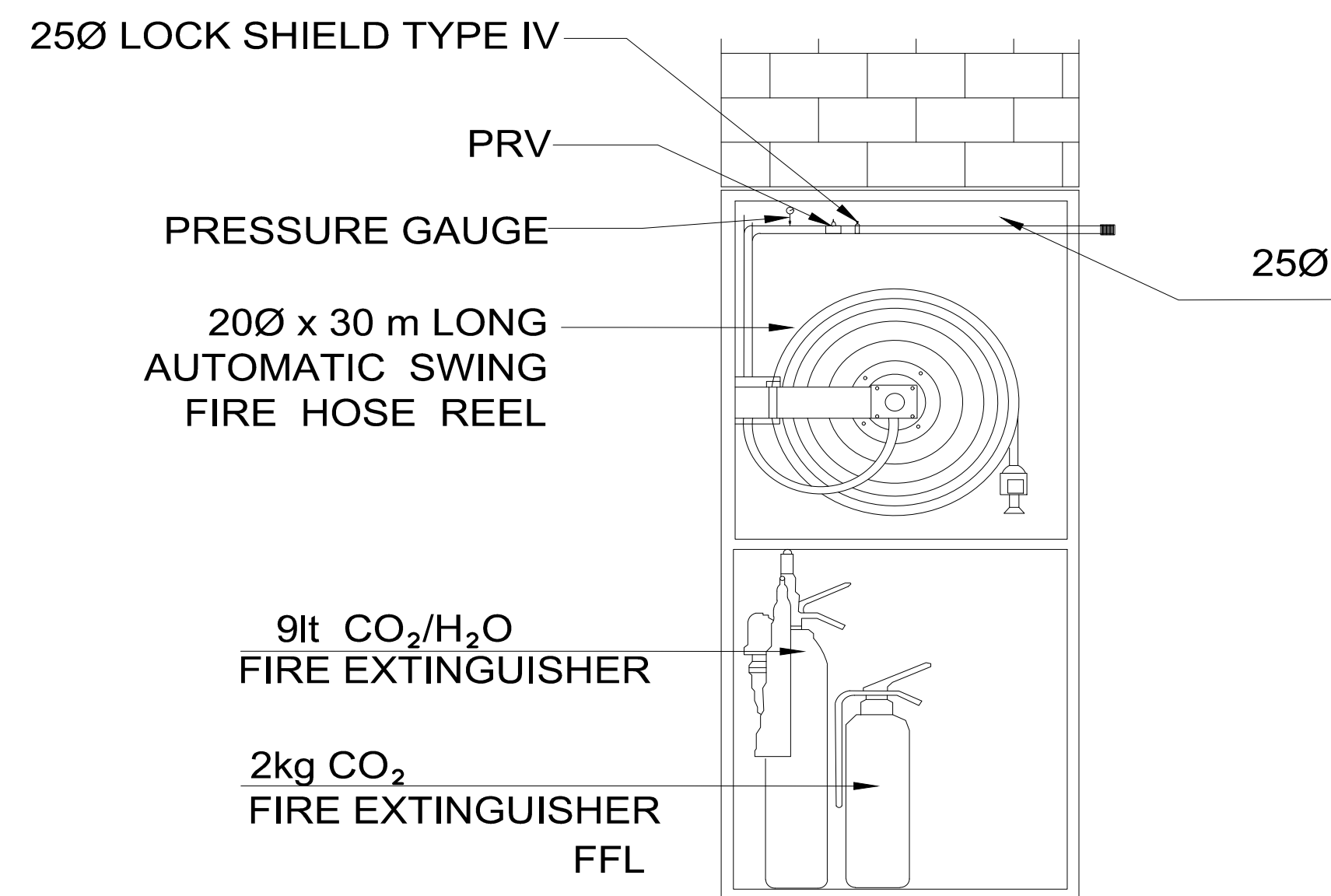
Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	FF	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Issue Date:
BS	HE	PB	2	A1	1:100 2023.12.14

TENDERING ONLY





GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm



TYPICAL FIRE HOSE REEL CABINET



STANDARD SINGLE PIPE LINE  
HANGERS FOR PIPE

Key Map:

General Legend:

LEGEND	
FHR1	FIRE HOSE REEL 30m & LANDING VALVE CABINET COMPLETE WITH HOSE REEL (19mm x 30m), CO <sub>2</sub> 2kg PORTABLE FIRE EXTINGUISHER, CO <sub>2</sub> H <sub>2</sub> O 9 lts PORTABLE FIRE EXTINGUISHER
DCP	DRY POWDER 6kg PORTABLE FIRE EXTINGUISHER
	CO <sub>2</sub> 3kg PORTABLE FIRE EXTINGUISHER
	CO <sub>2</sub> H <sub>2</sub> O 9 lts PORTABLE FIRE EXTINGUISHER
EXIT	EXIT SIGN BOARDS
EXIT	EXIT SIGN BOARDS

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



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ASIAN INFRASTRUCTURE INVESTMENT  
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



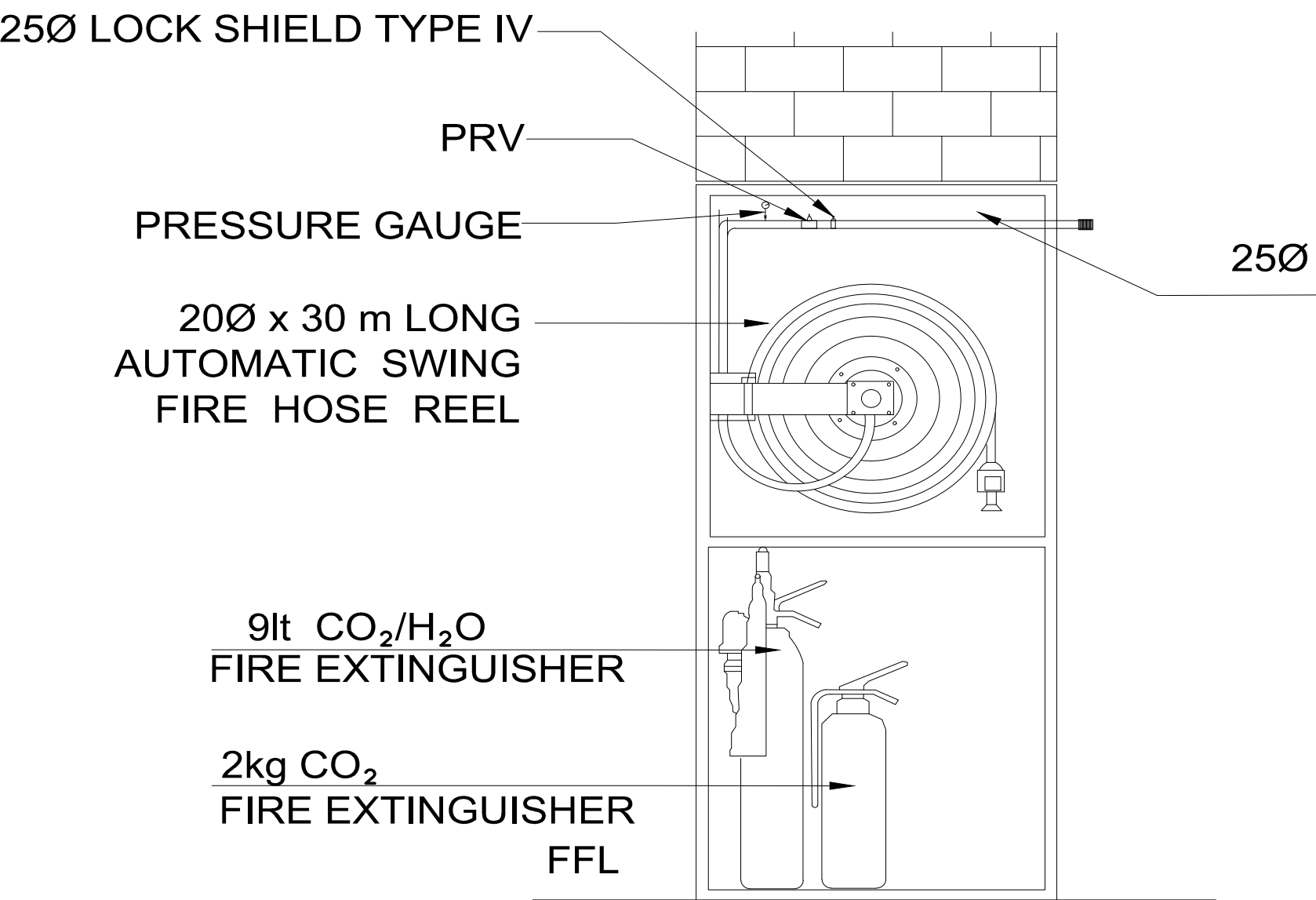
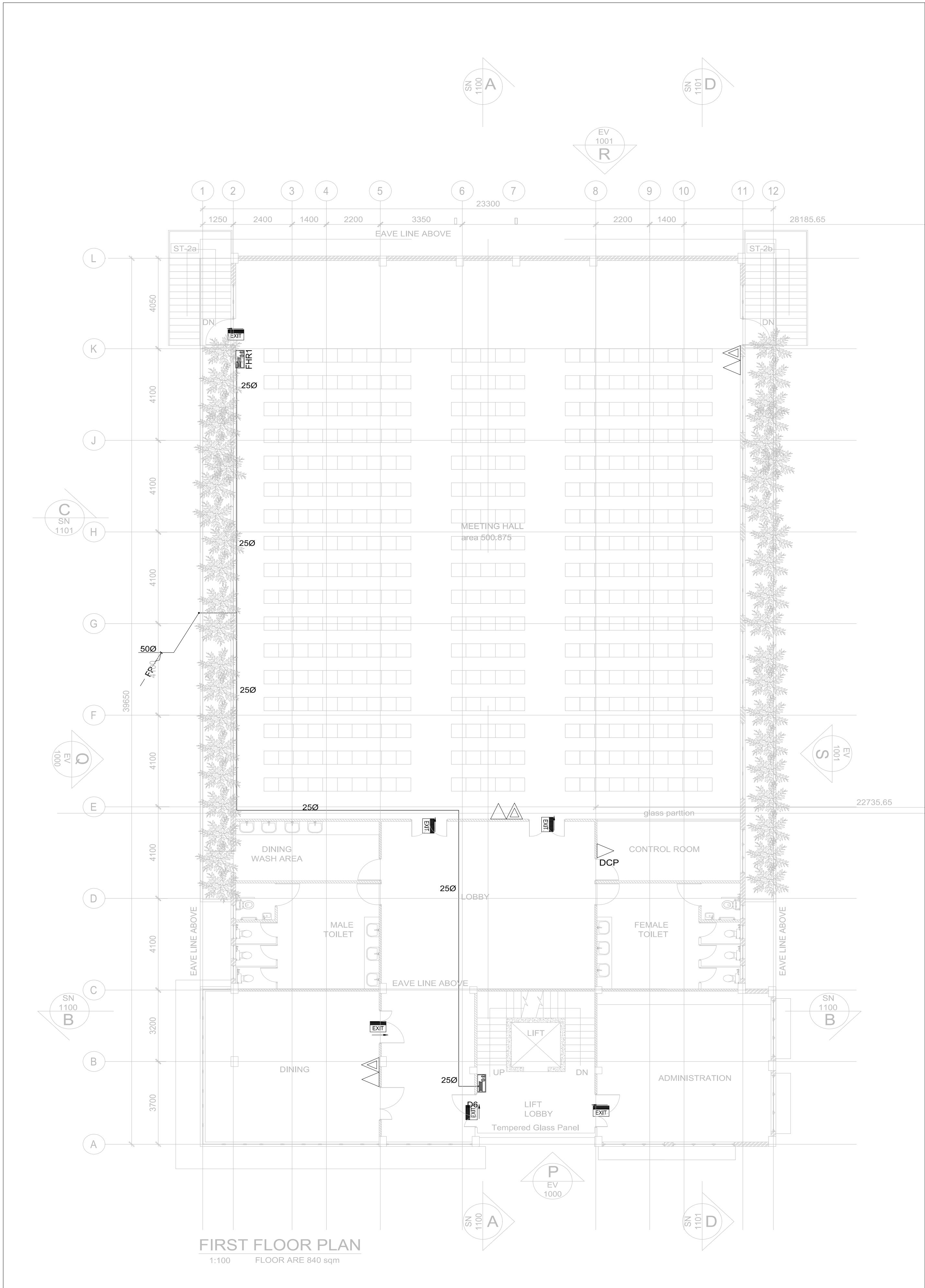
Drawing Title:

FIRE FIGHTING SYSTEM  
GROUND FLOOR PLAN

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	FF	FF	4510
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100

TENDERING ONLY





TYPICAL FIRE HOSE REEL CABINET



STANDARD SINGLE PIPE LINE  
HANGERS FOR PIPE

Key Map:

General Legend:

LEGEND	
	FIRE HOSE REEL 30m & LANDING VALVE CABINET COMPLETE WITH HOSE REEL (19mm x 30m), CO <sub>2</sub> 2kg PORTABLE FIRE EXTINGUISHER, CO <sub>2</sub> /H <sub>2</sub> O 9 lts PORTABLE FIRE EXTINGUISHER
	DRY POWDER 6kg PORTABLE FIRE EXTINGUISHER
	CO <sub>2</sub> 3kg PORTABLE FIRE EXTINGUISHER
	CO <sub>2</sub> /H <sub>2</sub> O 9 lts PORTABLE FIRE EXTINGUISHER
	EXIT SIGN BOARDS
	EXIT SIGN BOARDS

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUTHUFFUSHI ISLAND IN MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUTHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Ministry of Health  
Republic of Maldives

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA

2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

FIRE FIGHTING SYSTEM  
FIRST FLOOR PLAN

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	FF	FF	4511
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	-
					Issue Date
					2023.12.14

TENDERING ONLY

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## MEDICAL GAS DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Rev.	Date	Description	Approved

Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

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ASIAN INFRASTRUCTURE  
INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

MEDICAL GAS SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	MD	CV	0001

Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	2	A1	-	2023.12.14

DRAWING LIST - MEDICAL GAS			
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-MD-CV-0001	MEDICAL GAS - COVER SHEET	R2
02	23553-01-TN-MD-DL-0002	MEDICAL GAS - DRAWING LIST	R2
03	23553-01-TN-MD-CS-4150	MEDICAL GAS - GROUND FLOOR PLAN	R2

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

Rev.	Date	Description	Approved
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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

 Ministry of Health  
Republic of Maldives

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ASIAN INFRASTRUCTURE INVESTMENT  
BANK

 ASIAN INFRASTRUCTURE  
INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

 UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

 URO  
STRUCTURAL CONSULTANTS

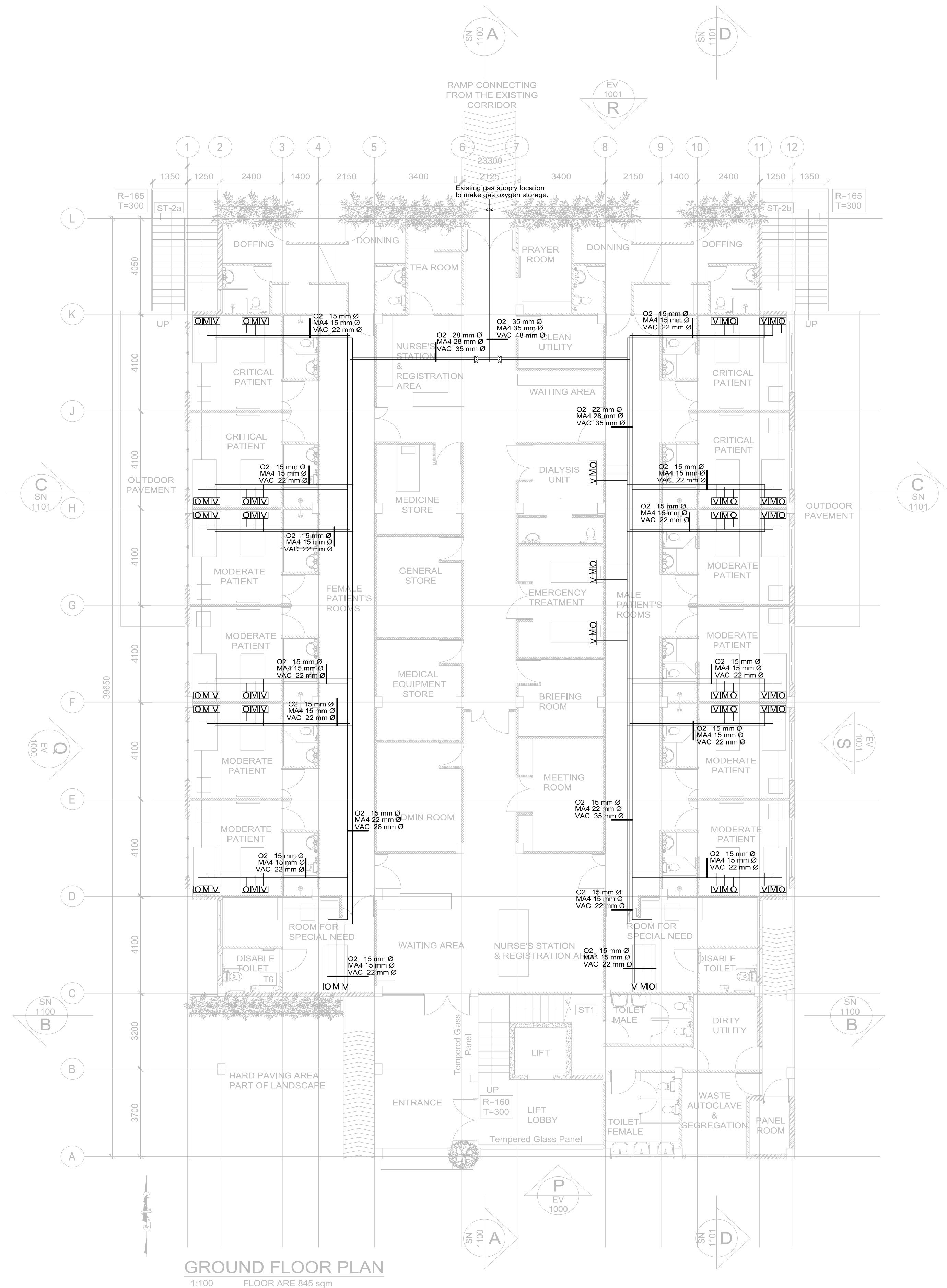
Drawing Title:

MEDICAL GAS SYSTEM  
DRAWING LIST

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	MD	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	-
Issue Date: 2023.12.14					

TENDERING ONLY





GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



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ASIAN INFRASTRUCTURE INVESTMENT  
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



Drawing Title:

MEDICAL GAS SYSTEM  
GROUND FLOOR

Project No.:		SUB No.:		Stage:	Discipline:	Subject:	Seq No.:
23553		01		TN	MD	CS	4150
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date	
BS	HE	PB	2	A1	-	2023.12.14	

TENDERING ONLY

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## WATER SUPPLY SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB
Rev.	Date	Description	Approved


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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

Supported & Funded By:

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

WATER SUPPLY SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	WS	WT	4300
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100

2023.12.14

		DRAWING LIST - WATER SUPPLY SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-WS-CV-0001	WATER SUPPLY SYSTEM - COVER SHEET	R2
02	23553-01-TN-WS-DL-0002	WATER SUPPLY SYSTEM - DRAWING LIST	R2
03	23553-01-TN-WS-WT-4300	WATER SUPPLY SYSTEM - GROUND FLOOR PLAN	R2
04	23553-01-TN-WS-WT-4301	WATER SUPPLY SYSTEM - FIRST FLOOR PLAN	R2

Key Map:

General Legend:

Drawing Notes:

2

2023.12.14

TENDERING ONLY

PB

1

2023.11.08

UNOPS PROJECT LEVEL COMMENTS INCORPORATED

PB

0

2023.09.22

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PB

Rev.

Date

Description

Approved


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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:


MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



Ministry of Health  
Republic of Maldives


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INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA




UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



URO  
STRUCTURAL CONSULTANTS

Drawing Title:

WATER SUPPLY SYSTEM  
DRAWING LIST

Project No.:

SUB No.:

Stage:

Discipline:

Subject:

Seq No.:

23553

01

TN

WS

DL

0002

Drawn:

Check:

Appr.:

Rev.:

Size:

Scale:

Issue Date:

BS

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2

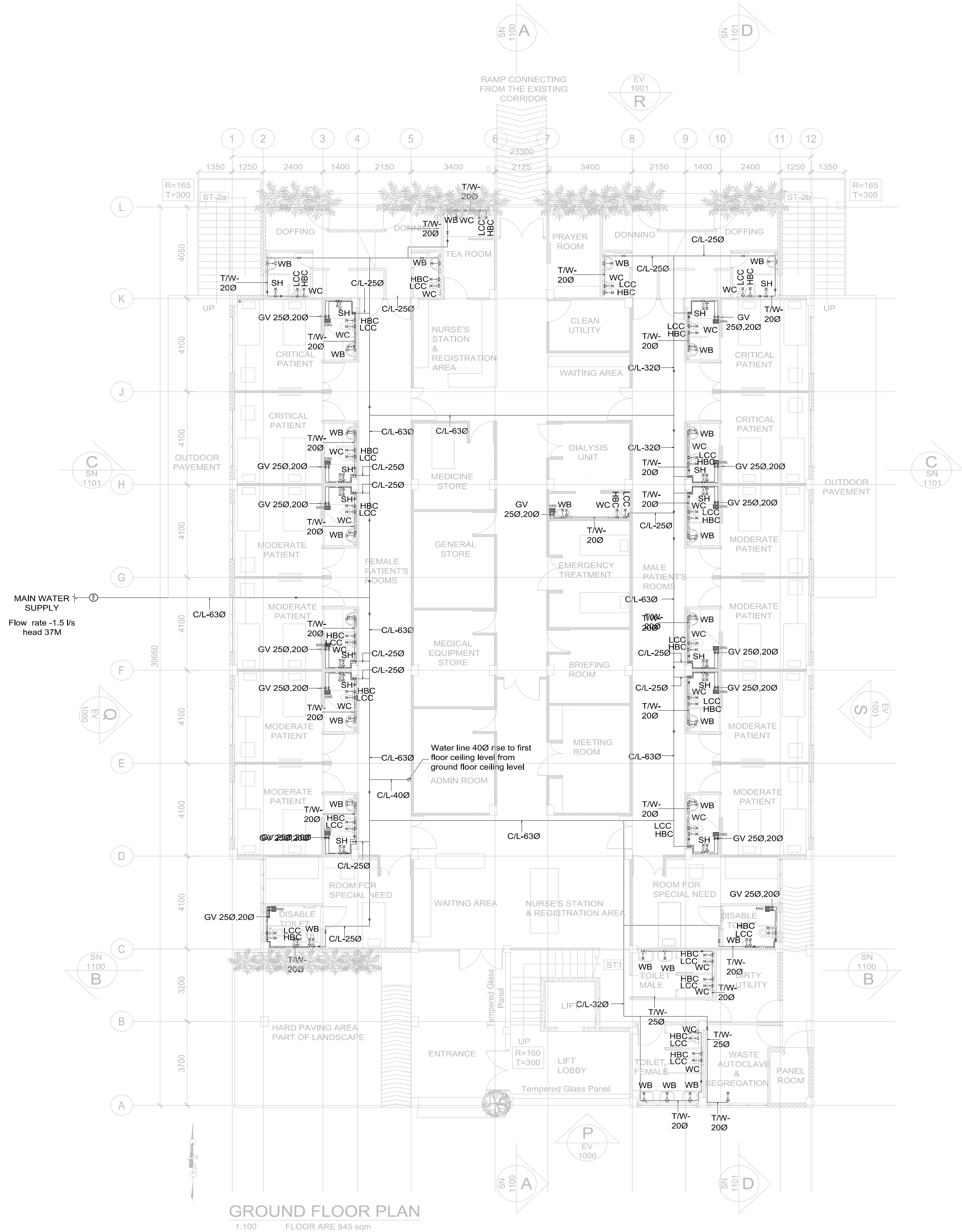
A1

1:100

2023.12.14

TENDERING ONLY





GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

200mm SOLID BLOCK WALL

Key Map:

General Legend:

LEGEND	
CWS	COLD WATER SUPPLY
C-3C	TAP
GV-2	GATE VALE
WB	WASH BASIN
WC	WATER CLOSET
SH	SHOWER
KS	KITCHEN SINK
GT	GARDEN TAP
LLC	LOW LEVEL CISTERN
HBS	HAND BIDET SHOWER
⊙	WATER METER
C/L	CELLING LEVEL
T/W	THROUGH WALL
C/W	PIPE CLIP TO THE WALL
U/G	PIPE AT UNDER GROUND

NOTES :

- 1.ALL COLD WATER PIPES TO BE P.V.C. TYPE 1000.
- 2.ALL WATER SUPPLY TO WB, LLC, HBS THROUGH ANGLE VALVE.

Drawing Notes:

Rev.	Date	Description	Approved
3	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



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Implementation:

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SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

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RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



Drawing Title:

WATER SUPPLY SYSTEM  
GROUND FLOOR PLAN

Project No.:		SUB No.:		Stage:	Discipline	Subject:	Seq No.:
23553		01		TN	WS	WT	4300
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:	
BS	HE	PB	2	A1	1:100	2023.12.14	

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TENDERING ONLY

# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## STORM WATER SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB


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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA  
2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD  
114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

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STRUCTURAL CONSULTANTS

Drawing Title:

STORM WATER SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	HY	SW	0001

Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	2	A1	1:100	2023.12.14

		DRAWING LIST - STORM WATER SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-HY-CV-0001	STORM WATER SYSTEM - COVER SHEET	R2
02	23553-01-TN-HY-DL-0002	STORM WATER SYSTEM - DRAWING LIST	R2
03	23553-01-TN-HY-SW-4200	STORM WATER SYSTEM - GROUND FLOOR PLAN	R2
04	23583-01-TN-HY-SW-4201	STORM WATER SYSTEM - FIRST FLOOR PLAN	R2
05	23583-01-PR-HY-SW-4202	STORM WATER SYSTEM - DETAILS	R2

Key Map:

General Legend:

Drawing Notes:

2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB
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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Ministry of Health  
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INVESTMENT BANK

Implementation:


UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

UNOPS

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

URO  
STRUCTURAL CONSULTANTS

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

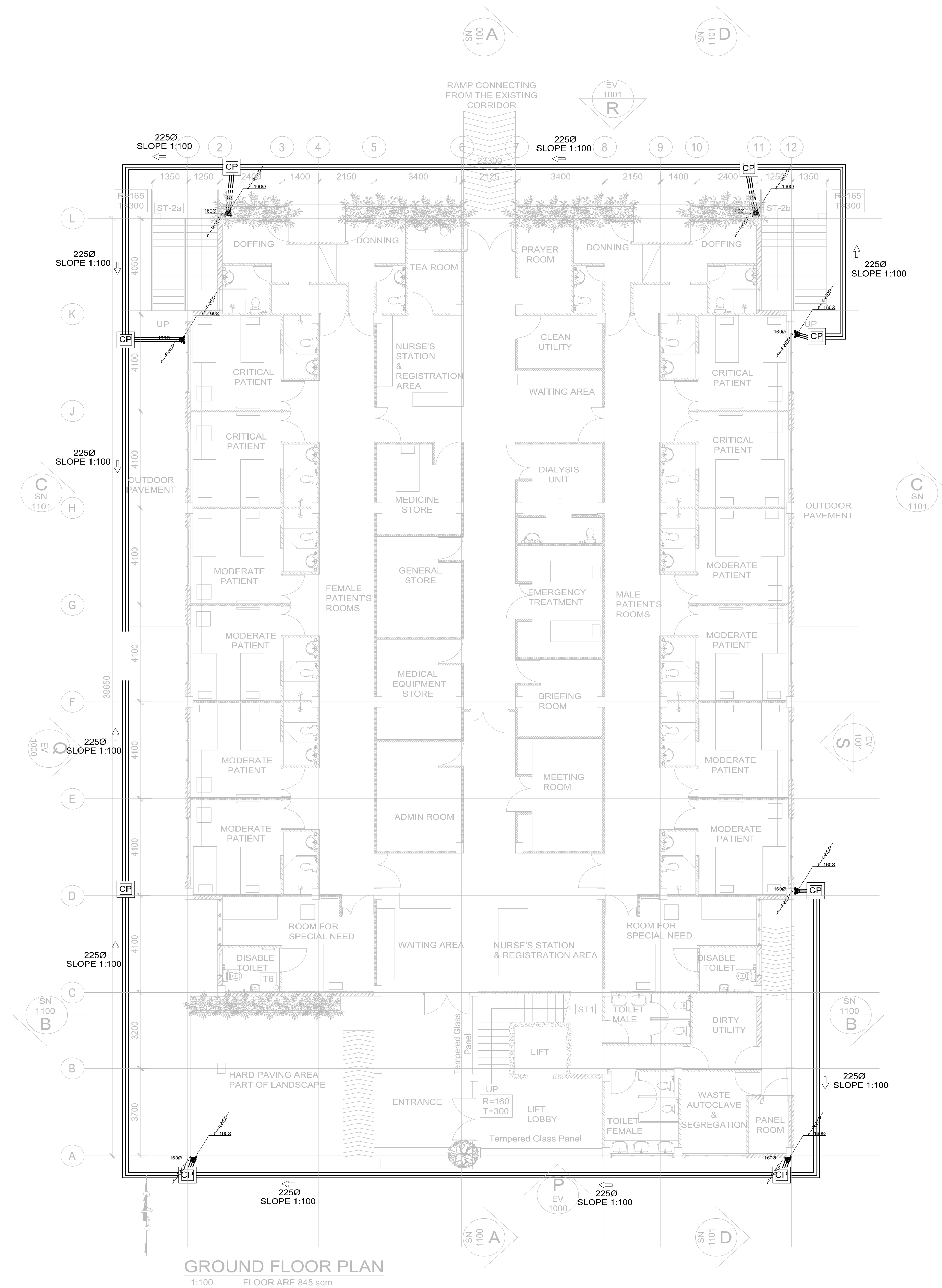
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STORM WATER SYSTEM  
DRAWING LIST

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	HY	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100
					2023.12.14

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GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

Key Map:

General Legend:

LEGEND	
	SD SIDE DRAIN
	BD BALCONY DRAIN
	RAIN WATER DOWN PIPE
	STORM WATER CATCH PIT (450x450)
	STORM WATER MANHOLE (600x600)

NOTES :

- 1.ALL RAIN WATER DOWN PIPE ARE uPVC TYPE 600.
- 2.ALL THE MANHOLES & CATCH PITS ARE GRATED COVER TYPE.
- 3.ALL CATCH PITS & OUTER HORIZONTAL PIPES INVERTS WILL BE FINALIZED WITH EXTERNAL STORM WATER DISCHARGE NETWORK.

Drawing Notes:

Rev.	Date	Description	Approved
3	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



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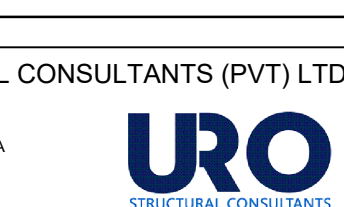
Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

Design:

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RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

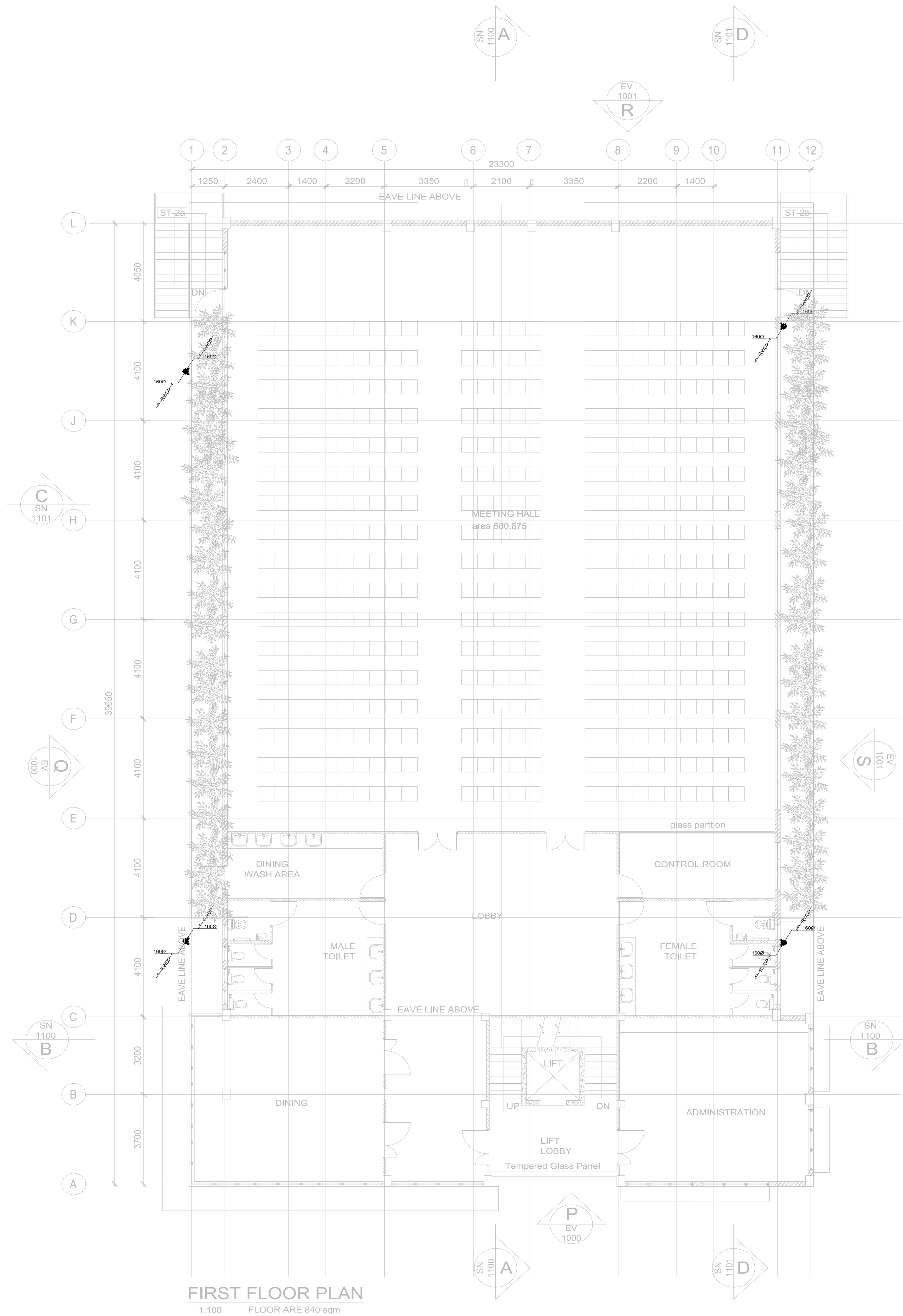


Drawing Title:

STORM WATER SYSTEM  
GROUND FLOOR PLAN

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	HY	SW	4200
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	2	A1	1:100

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FIRST FLOOR PLAN  
1:100 FLOOR ARE 840 sqm

Key Map:

General Legend:

LEGEND	
	SD SIDE DRAIN
	BD BALCONY DRAIN
	RAIN WATER DOWN PIPE
	STORM WATER CATCH PIT (450x450)
	STORM WATER MANHOLE (600x600)

NOTES :

- 1.ALL RAIN WATER DOWN PIPE ARE uPVC TYPE 600.
- 2.ALL THE MANHOLES & CATCH PITS ARE GRATED COVER TYPE.
- 3.ALL CATCH PITS & OUTER HORIZONTAL PIPES INVERTS WILL BE FINALIZED WITH EXTERNAL STORM WATER DISCHARGE NETWORK.

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
0	2023.09.22	PROPOSED	PB

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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES  
 Ministry of Health  
Republic of Maldives

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INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CARLOS RD,  
COLOMBO 00700,  
SRI LANKA  
 UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD  
114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA  
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STRUCTURAL CONSULTANTS

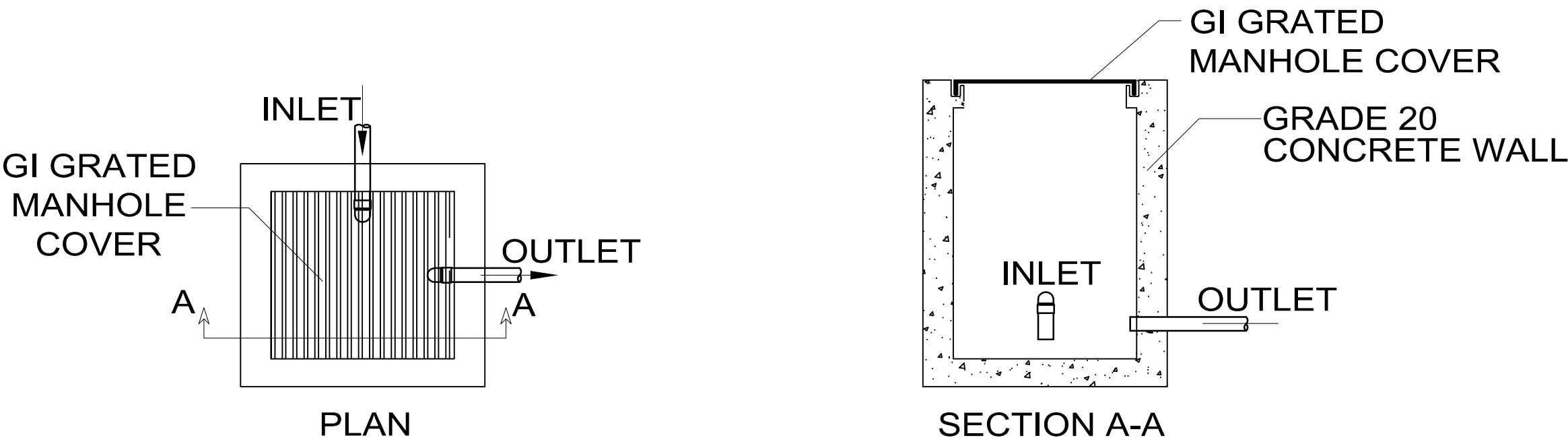
Drawing Title:

STORM WATER SYSTEM  
FIRST FLOOR PLAN

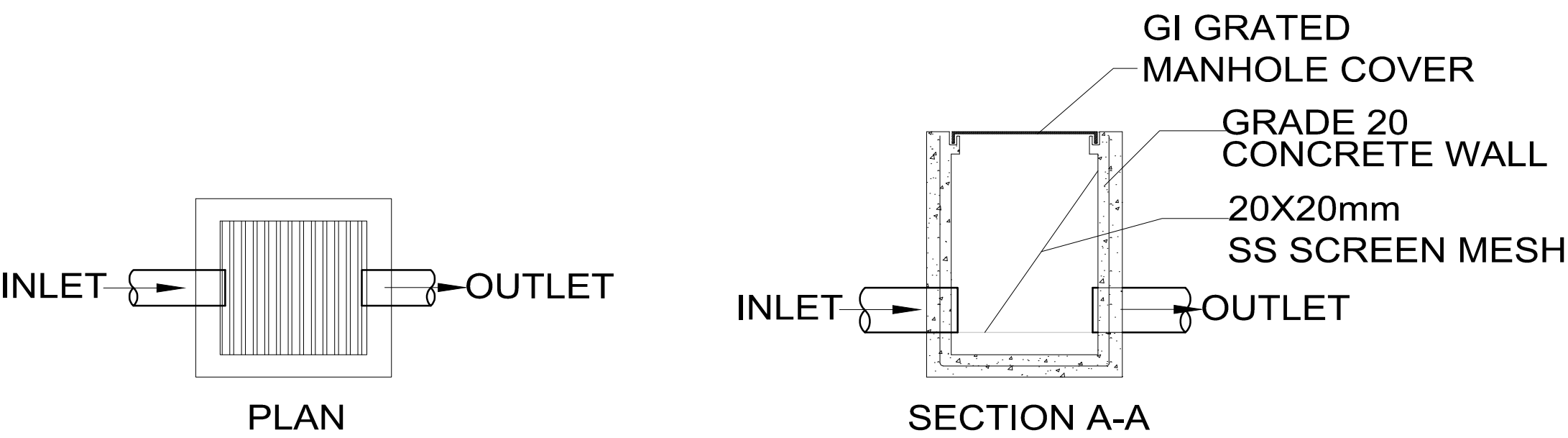
Project No.:		SUB No.:		Stage:	Discipline:	Subject:	Seq No.:
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Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:	
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DETAIL OF TYPICAL RAIN  
WATER MANHOLE



DETAIL OF TYPICAL CATTCH PIT  
WITH GREATED GULLY

Key Map:

General Legend:

LEGEND	
	SD SIDE DRAIN
	BD BALCONY DRAIN
	RAIN WATER DOWN PIPE
	STORM WATER CATCH PIT (450x450)
	STORM WATER MANHOLE (600x600)

NOTES :

1.ALL RAIN WATER DOWN PIPE ARE uPVC TYPE 600.

2.ALL THE MANHOLES & CATCH PITS ARE GRATED COVER TYPE.

3.ALL CATCH PITS & OUTER HORIZONTAL PIPES INVERTS WILL BE FINALIZED WITH EXTERNAL STORM WATER DISCHARGE NETWORK.

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Supported & Funded By:

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ASIAN INFRASTRUCTURE INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

Drawing Title:

STORM WATER SYSTEM  
DETAILS

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	HY	SW	4202

Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	2	A1	1:50	2023.12.14

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# EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

## DETAILED DESIGN PACKAGE

## DRAINAGE SYSTEM DRAWINGS

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES


Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES


Ministry of Health  
Republic of Maldives

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA


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COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

URO  
STRUCTURAL CONSULTANTS

Drawing Title:

DRAINAGE SYSTEM  
COVER SHEET

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	WS	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	3	A1	1:100
					Issue Date:
					2023.12.14

		DRAWING LIST - DRAINAGE SYSTEM	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23583-01-TN-WS-CV-0001	DRAINAGE SYSTEM - COVER SHEET	R3
02	23583-01-TN-WS-DL-0002	DRAINAGE SYSTEM - DRAWING LIST	R3
03	23583-01-TN-WS-SW-4200	DRAINAGE SYSTEM - GROUND FLOOR PLAN	R3
04	23583-01-TN-WS-SW-4201	DRAINAGE SYSTEM - FIRST FLOOR PLAN	R3

Key Map:

General Legend:

Drawing Notes:

3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES

Ministry of Health  
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Implementation:

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OFFICE, SRI LANKA


2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

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RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA

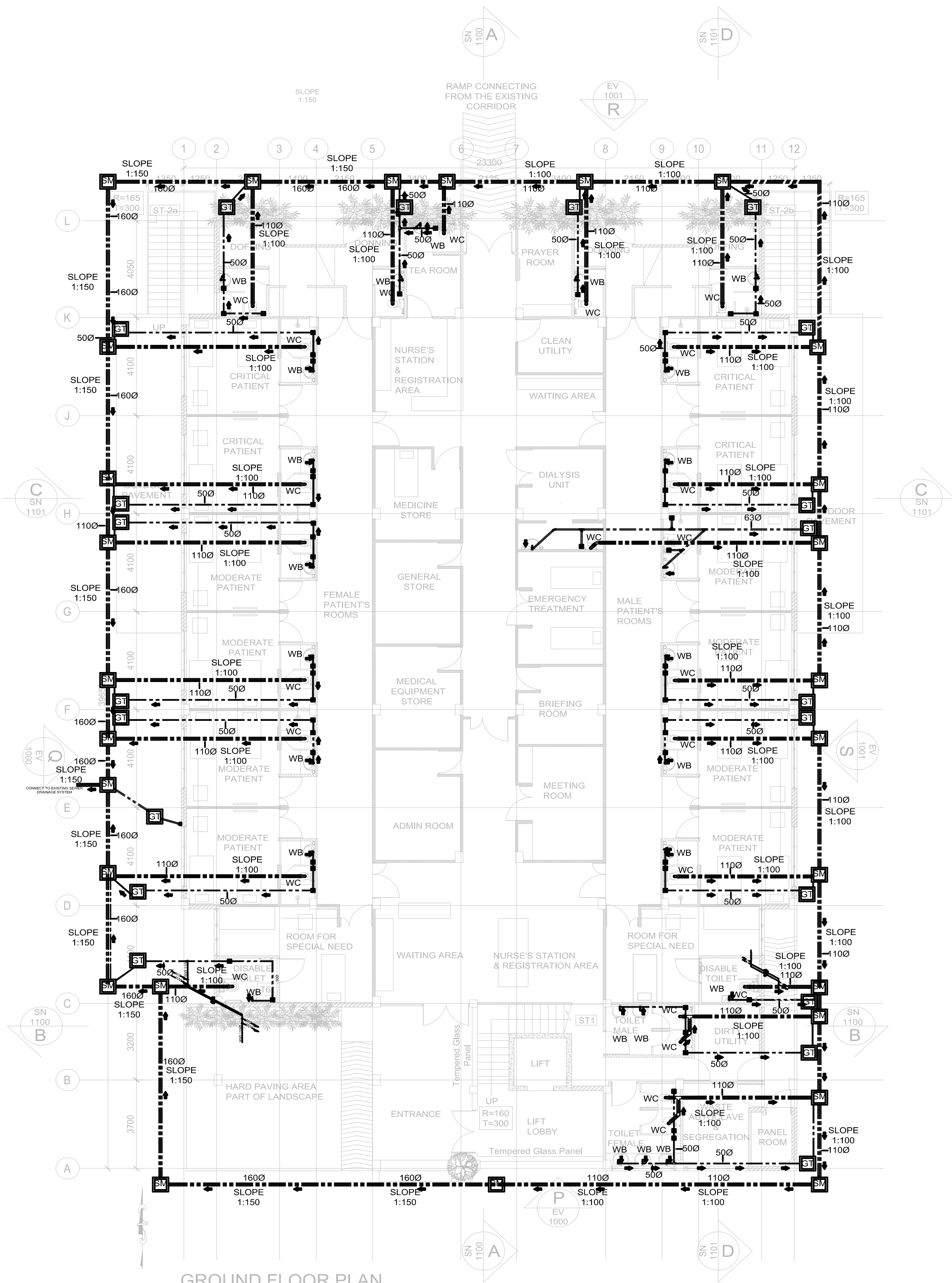
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Drawing Title:

DRAINAGE SYSTEM  
DRAWING LIST

Project No.:		SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553		01	TN	WS	DL	0002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
BS	HE	PB	3	A1	1:100	2023.12.14

TENDERING ONLY



GROUND FLOOR PLAN  
1:100 FLOOR ARE 845 sqm

- NOTES :**
- 1.THIS LAYOUT MAY BE CHANGED BY THE ENGINEER AT THE SITE.
  - 2.UNLESS OTHERWISE STATED, ALL PIPES TO BE P.V.C.(TYPE 600)
  - 3.ALL SOIL PIPES TO BE 110 Ø UNLESS OTHERWISE SPECIFIED.
  - 4.ALL HORIZONTAL SOIL PIPES AND WASTE WATER PIPES TO BE LAID AT A MINIMUM SLOPE OF 1:100
  - 5.USE P.V.C. 'P' TRAPS FOR EACH VERTICAL WASTE PIPE FROM WASH BASINS, URINALS & BIDETS.
  - 6.ALL VERTICAL WASTE PIPES FROM WASH BASINS AND URINALS TO BE 400 AND 500 RESPECTIVELY.
  - 7.PROVIDE A CLEANING EYE AT EACH BRANCH PIPE CONNECTION TO VERTICAL MAIN STACK.
  - 8.UNLESS OTHERWISE STATED, ALL PIPES AT UPPER FLOOR LEVELS TO BE LAID WITHIN THE WALLS OR MASS CONC. FILLING.

Key Map:

General Legend:

LEGEND	
— Ø50	SEWER/ WASTE LINE
— Ø63	SEWER/ WASTE LINE
— Ø75	SEWER/ WASTE LINE
— Ø90	SEWER/ WASTE LINE
— Ø110	SEWER/ WASTE LINE
WB	WASH BASIN
WC	WATER CLOSET
SH	SHOWER
KS	KITCHEN SINK
■	FLOOR DRAIN
■	FLOOR CLEAN OUT
◆	SEWER/ WASTE RISER
SW	SEWER WASTE RISER
WW	WASTER WATER RISER
VR	VENT RISER
ST	WASTE WATER GULLY TRAP(450x450)
SM	SEWER MANHOLE (450x450)
SM	SEWER MANHOLE (600x450)
SM	SEWER MANHOLE (600x600)
GR.T	GREASE TRAP (1200x600)

Drawing Notes:

Rev.	Date	Description	Approved
3	2023.12.14	TENDERING ONLY	PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	PB
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Project Name:

EMERGENCY CONSTRUCTION OF  
PATIENT WARDS AT  
KULHUDHUFFUSHI ISLAND IN  
MALDIVES

Client:

MINISTRY OF HEALTH,  
KULHUDHUFFUSHI REGIONAL HOSPITAL  
MALDIVES



Supported & Funded By:

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY  
OFFICE, SRI LANKA

2 DON CAROLUS RD,  
COLOMBO 00700,  
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA  
RAJAGIRIYA, PC 10107,  
COLOMBO, SRI LANKA



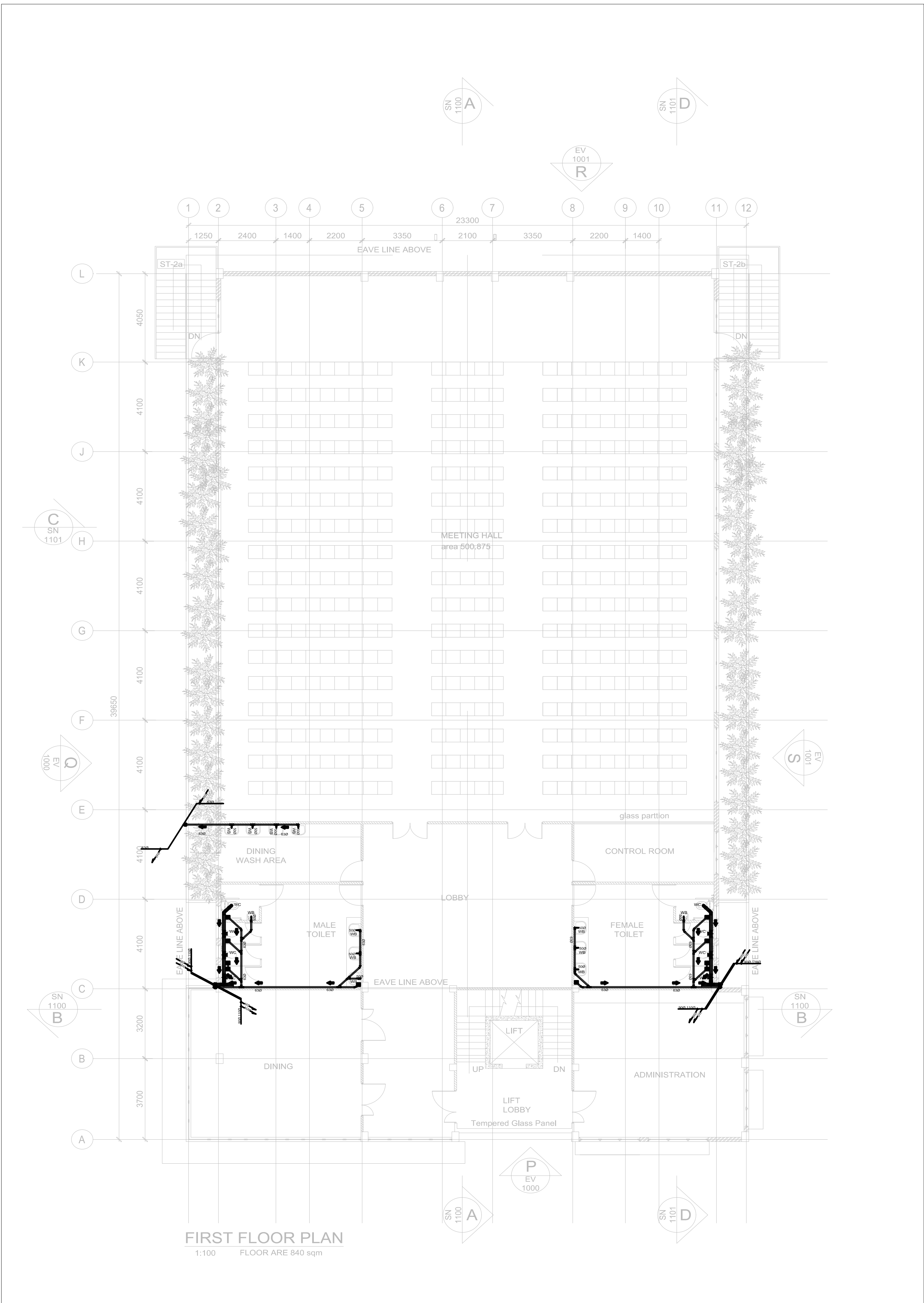
Drawing Title:

DRAINAGE SYSTEM  
GROUND FLOOR PLAN

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	WS	SW	4200
Drawn:	Check:	Appr:	Rev:	Size:	Scale: Issue Date:
BS	HE	PB	3	A1	1:100 2023.12.14

TENDERING ONLY





- NOTES :**
- 1.THIS LAYOUT MAY BE CHANGED BY THE ENGINEER AT THE SITE.
  - 2.UNLESS OTHERWISE STATED, ALL PIPES TO BE P.V.C.(TYPE 600)
  - 3.ALL SOIL PIPES TO BE 110 Ø UNLESS OTHERWISE SPECIFIED.
  - 4.ALL HORIZONTAL SOIL PIPES AND WASTE WATER PIPES TO BE LAID AT A MINIMUM SLOPE OF 1:100
  - 5.USE P.V.C. 'P' TRAPS FOR EACH VERTICAL WASTE PIPE FROM WASH BASINS, URINALS & BIDETS.
  - 6.ALL VERTICAL WASTE PIPES FROM WASH BASINS AND URINALS TO BE 40Ø AND 50Ø RESPECTIVELY.
  - 7.PROVIDE A CLEANING EYE AT EACH BRANCH PIPE CONNECTION TO VERTICAL MAIN STACK.
  - 8.UNLESS OTHERWISE STATED, ALL PIPES AT UPPER FLOOR LEVELS TO BE LAID WITHIN THE WALLS OR MASS CONC. FILLING.

Key Map:	
General Legend:	
LEGEND	
— Ø50	SEWER/ WASTE LINE
— Ø63	SEWER/ WASTE LINE
— Ø75	SEWER/ WASTE LINE
— Ø90	SEWER/ WASTE LINE
— Ø110	SEWER/ WASTE LINE
WB	WASH BASIN
WC	WATER CLOSET
SH	SHOWER
KS	KITCHEN SINK
□	FLOOR DRAIN
◆	FLOOR CLEAN OUT
◆	SEWER/ WASTE RISER
SW	SEWER WASTE RISER
WW	WASTER WATER RISER
VR	VENT RISER
□	WASTE WATER GULLY TRAP(450x450)
SM	SEWER MANHOLE (450x450)
SM	SEWER MANHOLE (600x450)
SM	SEWER MANHOLE (600x600)
GR.T	GREASE TRAP (1200x600)

Drawing Notes:					
3	2023.12.14	TENDERING ONLY			PB
2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED			PB
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED			PB
0	2023.09.22	PROPOSED			PB
Rev.	Date	Description			Approved
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Project Name:					
EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES					
Client:					
MINISTRY OF HEALTH, KULHUDHUFFUSHI REGIONAL HOSPITAL, MALDIVES					
Supported & Funded By:					
THE WORLD BANK					
ASIAN INFRASTRUCTURE INVESTMENT BANK					
Implementation:					
UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA					
Design:					
URO STRUCTURAL CONSULTANTS (PVT) LTD					
Drawing Title:					
DRAINAGE SYSTEM FIRST FLOOR PLAN					
Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	WS	SW	4201
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
BS	HE	PB	3	A1	1:100
Issue Date:					
2023.12.14					

TENDERING ONLY