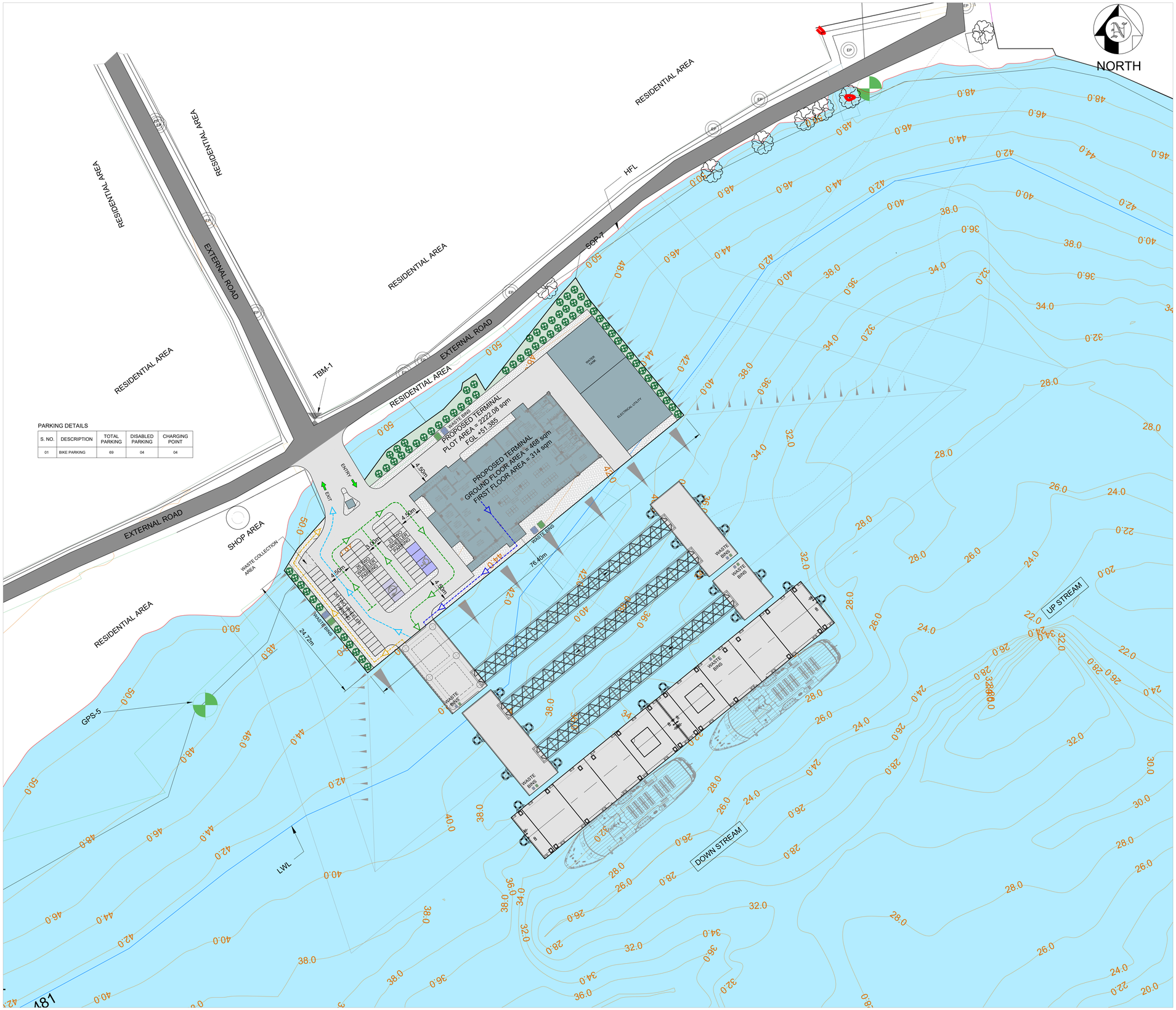
DRG No.
DI1530-RHD-ZZ-NG-DR-A-2120

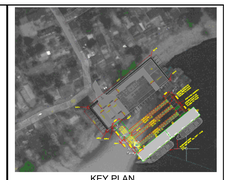
DO NOT SCALE



PARKING DETAILS

S. NO.	DESCRIPTION	TOTAL PARKING	DISABLED PARKING	CHARGING POINT
01	BIKE PARKING	69	04	04

OVERALL LAYOUT
SCALE 1:250



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. REFERENCE ELEVATION AND HFL(51.460) WAS OBTAINED FROM CWC OFFICE .
6. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.54m AT NORTH GUWAHATI LOCATION.
7. THALWEG LINE DISTANCE FROM HFL IS ABOUT 1000 m DURING FLOOD SEASON AND 750 m DURING LEAN SEASON
8. REFERENCE PILLAR CO-ORDINATES & LEVELS AT NORTH GUWAHATI.

REFERENCE POINT	EASTING (m)	NORTHING (m)	LEVEL (m)
RP-1	372347.830	2896990.912	51.237
RP-4	372407.572	2896987.572	49.576
GPS-5	372223.431	2896875.410	48.834
TBM-1	372243.913	2896928.799	51.312

LEGEND

SL.NO.	DESCRIPTION	SYMBOL
1.	ELECTRIC POST / LIGHT POST	
2.	BOUNDARY WALL / FENCE LINE	
3.	CULVERT / TEMPORARY BENCH MARK	
4.	ROAD (METALLED / CONCRETE)	
5.	ROAD (KUTCHA) / TELEPHONE POST	
6.	TREE / REFERENCE POINT	
7.	SPOT ELEVATION / GATE	
8.	CONTOUR	
9.	UNDER CONSTRUCTION BLDG	
10.	WATER EDGE (ASSUMED LWL)	
11.	HIGH FLOOD LEVEL	
12.	CANAL	

LEGEND :

- HFL - HIGH FLOOD LEVEL
- LWL - LOW WATER LEVEL
- FGL - FINISHED GROUND LEVEL
- RIVER WATER AREA
- PEDESTRIAN ENTRY QUEUING
- PEDESTRIAN EXIT
- TWO WHEELER ENTRY QUEUING
- TWO WHEELER EXIT
- PARKING FOR DISABLED
- VEHICLE CHARGING POINT
- DRY AND WET WASTE BINS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	19/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
803-005, 8th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi,
Navi Mumbai, Maharashtra
Tel +91 (0) 22 61586000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LANDSIDE FACILITY LAYOUT

DRAWN	CHECKED	APPROVED
SNJ	SVK	AK

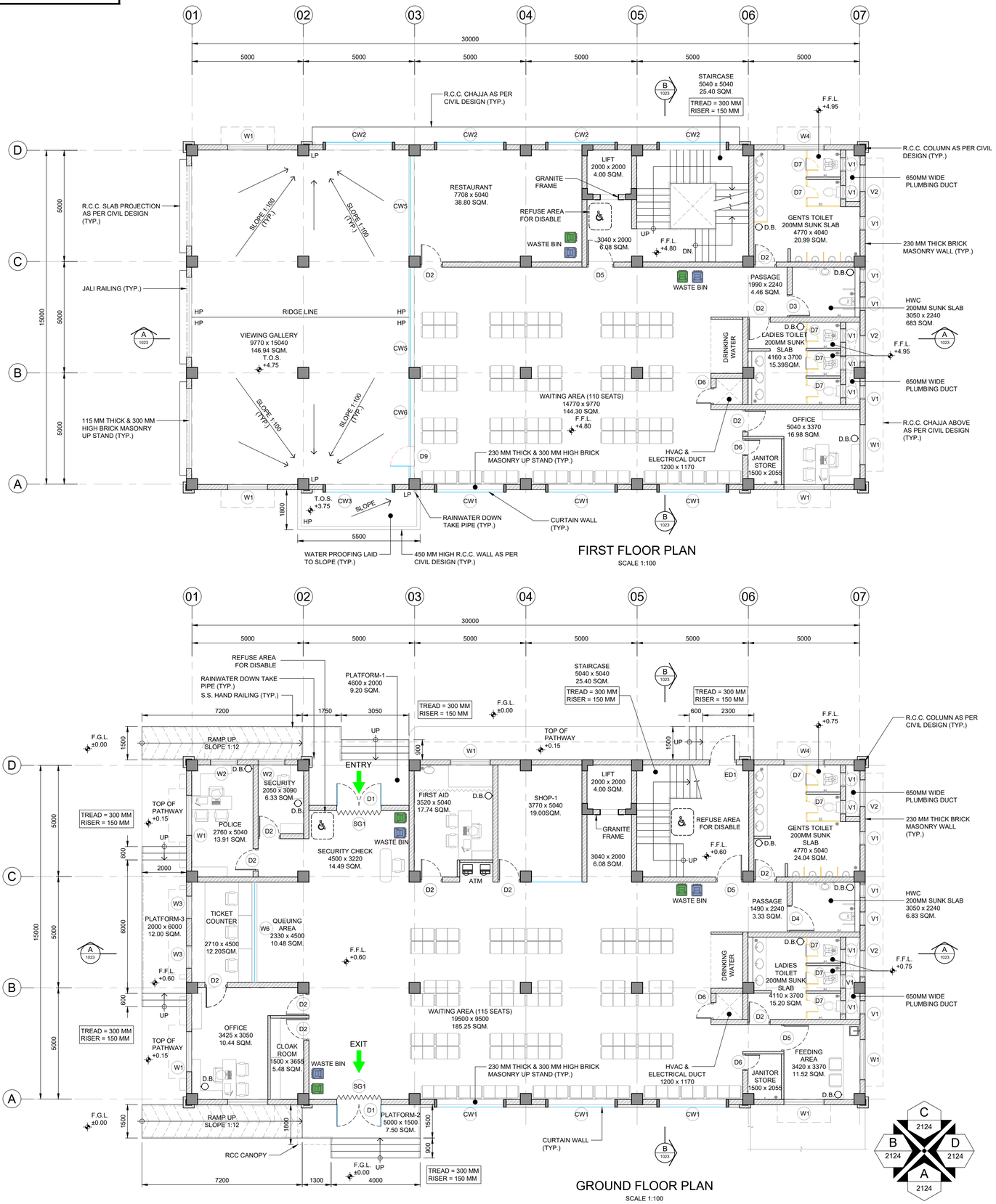
DATE	SCALE @A0	REF
FEB 2023	AS SHOWN	-

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2120	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2121

DO NOT SCALE



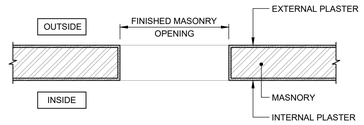
FIRST FLOOR PLAN

SCALE 1:100

GROUND FLOOR PLAN

SCALE 1:100

FINISHING SCHEDULE					
GROUND FLOOR					
S. NO.	ROOM NAME	FLOOR	CEILING	INTERIOR WALL	EXTERIOR WALL
01	ENTRANCE STEPS, PLATFORMS & RAMPS	ANTI-SKID VITRIFIED FLOORING	-	-	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS
02	WAITING AREAS, SCANNING AREA, OFFICES, TICKET COUNTERS, QUEUING AREA, POLICE, SHOPS, RESTAURANT, SECURITY CABIN & VIEWING GALLERY	VITRIFIED TILE FLOORING 600X600mm	GYPSUM BOARD + MODULAR GRID (600x600) CEILING	12mm THK. PLASTER FINISHED WITH ACRYLIC EMULSION PAINT WITH PRIMER & WALL PUTTY ON SURFACE	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS
03	STAIRCASE	KOTA STONE	PLASTER WITH WALL PUTTY & EMULSION PAINT	12mm THK. PLASTER FINISHED WITH ACRYLIC EMULSION PAINT WITH PRIMER & WALL PUTTY ON SURFACE	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS
04	TOILETS (GROUND FLOOR), FIRST AID & FEEDING AREAS	ANTI-SKID VITRIFIED FLOORING	GYPSUM BOARD + MODULAR GRID (600x600) CEILING	12mm THK. PLASTER/ CERAMIC TILE DADO SIZED 400x600mm HORIZONTAL UP TO FALSE CEILING	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS
05	TOILETS (FIRST FLOOR) & FEEDING ARES	ANTI-SKID VITRIFIED FLOORING	PLASTER WITH WALL PUTTY & EMULSION PAINT	12mm THK. PLASTER/ CERAMIC TILE DADO SIZED 400x600mm HORIZONTAL UP TO FALSE CEILING	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS



TYPICAL DETAIL OF MASONRY OPENING

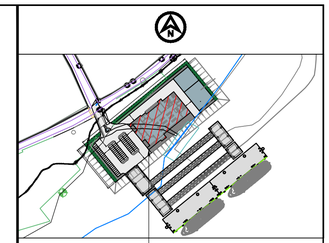
(SCALE 1:20)

DOOR SCHEDULE FINISHED

S. NO.	DOOR NO.	SIZE (FINISHED MASONRY OPENING)		TYPE	DESCRIPTION
		WIDTH	HEIGHT		
01	D1	2000	2400	DOUBLE LEAF	ALUMINUM GLASS DOOR
02	D2	1000	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL
03	D3	1000	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITHOUT VISION PANEL
04	D4	1200	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITHOUT VISION PANEL
05	D5	1200	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL
06	D6	750	2100	SINGLE LEAF	POWDER COATED ALUMINIUM LOUVERS DOOR
07	D7	600	1800	SINGLE LEAF	HPL PARTITION DOOR
08	D8	750	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITHOUT VISION PANEL
09	D9	900	2100	SINGLE LEAF	ALUMINUM GLASS DOOR
10	RS2	2000	2100	GEAR OPERATED	ROLLING SHUTTER
11	ED1	1200	2100	SINGLE LEAF	EMERGENCY FIRE RATED DOOR WITH PANIC BAR
12	SG1	2000	2400	SLIDING SHUTTER	MS SHEET SLIDING SHUTTER

WINDOW SCHEDULE FINISHED

S. NO.	WINDOW NO.	SIZE (FINISHED MASONRY OPENING)		DESCRIPTION
		WIDTH	HEIGHT	
01	W1	1800	1500	POWDER COATED ALUMINIUM GLASS OPENABLE SHUTTER WINDOW
02	W2	1200	1500	SLIDING GLASS POWDER COATED ALUMINIUM WINDOW
03	W3	1000	1500	FIXED GLASS ALUMINIUM WINDOW / COMMUNICATION WINDOW
04	W4	1800	1500	POWDER COATED ALUMINIUM FROSTED GLASS FIXED WINDOW
05	W7	7210	1500	FIXED GLASS ALUMINIUM WINDOW / COMMUNICATION WINDOW
06	V1	600	900	FROSTED GLASS LOUVERS ALUMINIUM VENTILATOR
07	V2	1200	1500	POWDER COATED ALUMINIUM FIXED FROSTED GLASS LOUVERS WINDOW
08	CW1	3000	6600	POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS
09	CW2	3000	3650	POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS
10	CW3	3000	3400	POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS
11	CW4	3000	2400	POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS
12	CW5	4500	3600	POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS
13	CW6	SEE WINDOW DETAIL		POWDER COATED ALUMINIUM CURTAIN WALL WITH CLEAR GLASS



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. ALL SERVICES ROUTINGS SHALL HAVE TO BE CO-ORDINATED BY THE CONTRACTOR FINISHING WORKS.
6. UNLESS SPECIFIED OTHERWISE CONTRACTOR TO FOLLOW TENDER SPECIFICATIONS FOR BUILDING FINISHING WORKS.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- HPL PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT
D.B. - DUST BIN

REFUSED AREA FOR DISABLED

DRY & WET WASTE BIN

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT

Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel.+91 (0) 22 61395000
Email info.India@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT

Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT

Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE

CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
GROUND FLOOR &
FIRST FLOOR PLANS

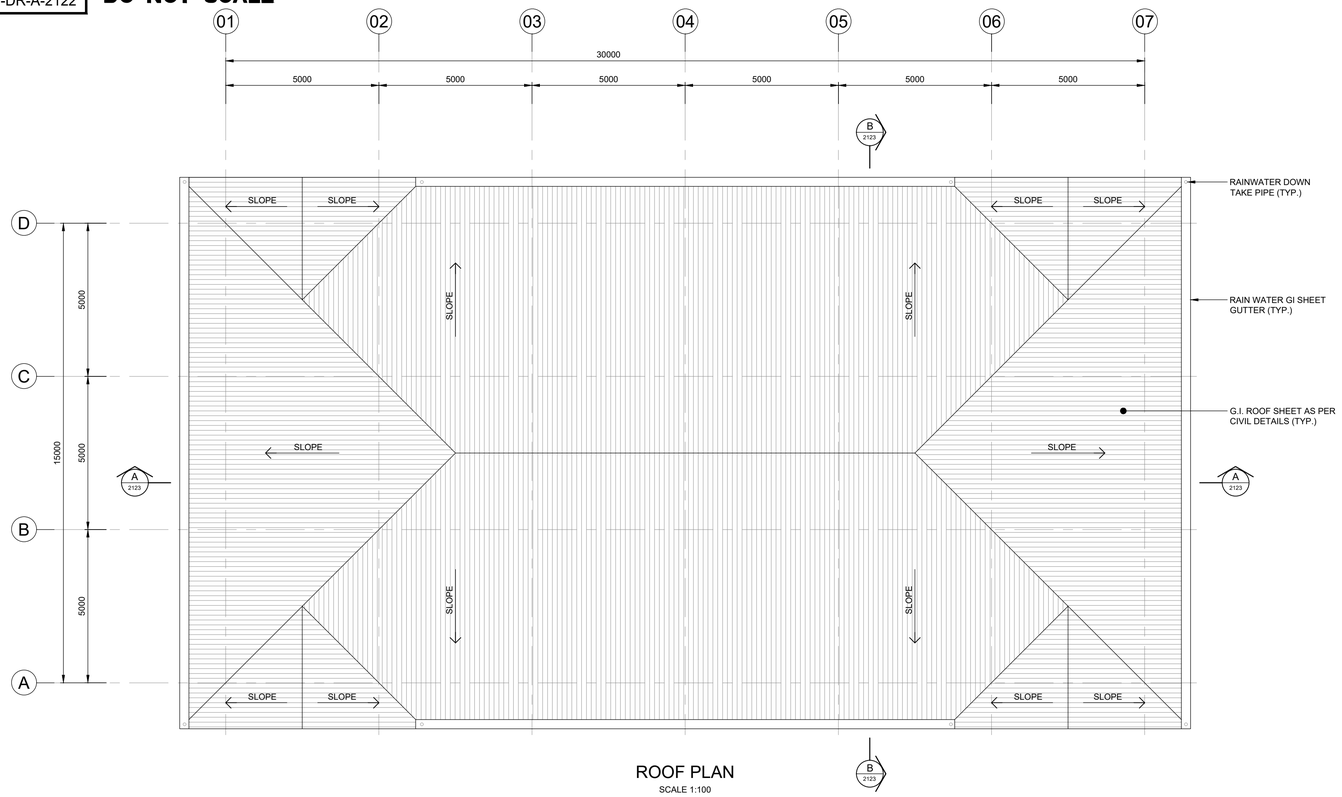
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2121	A3	P01

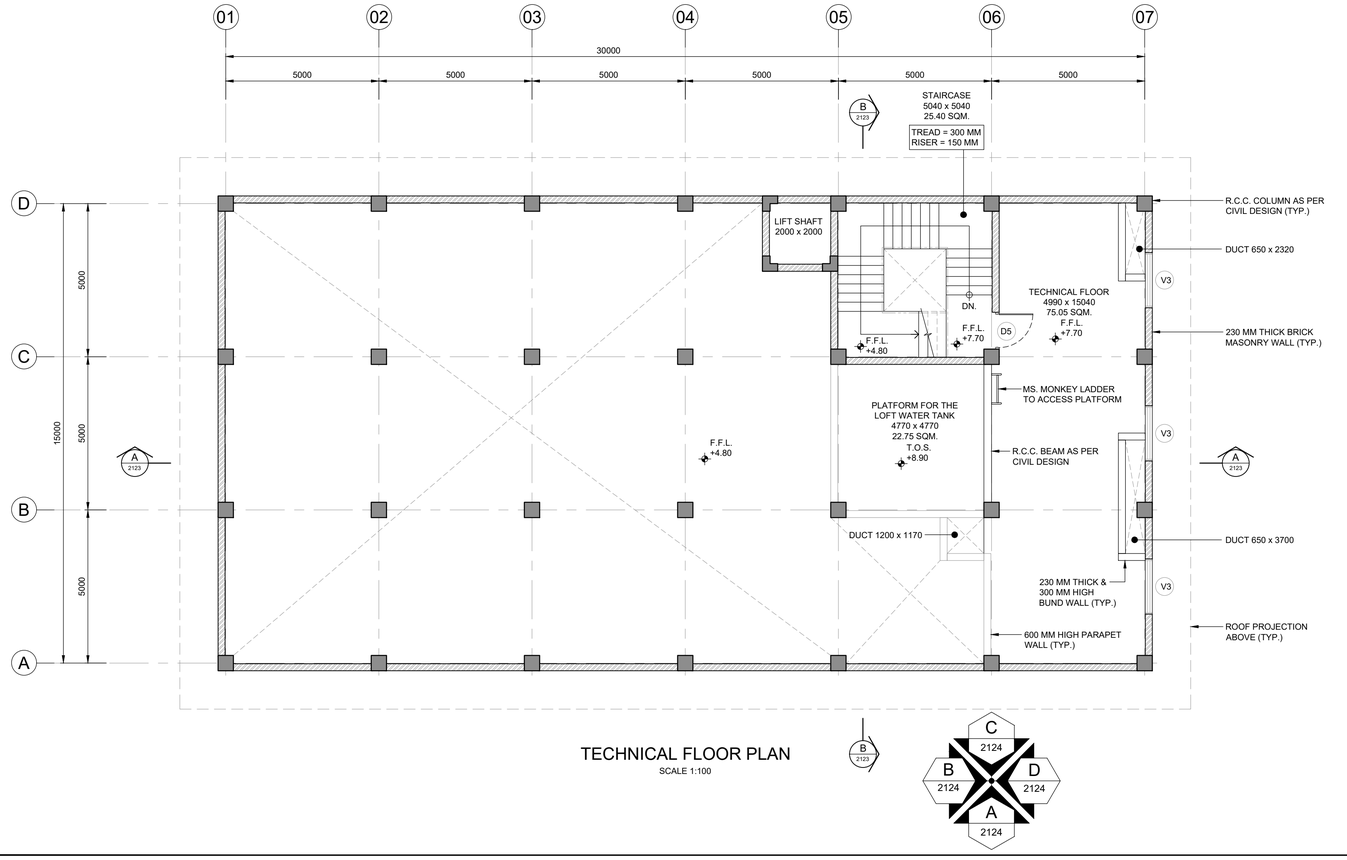
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2122

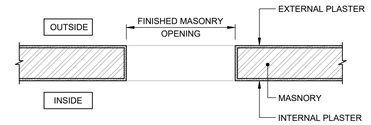
DO NOT SCALE



ROOF PLAN
SCALE 1:100



TECHNICAL FLOOR PLAN
SCALE 1:100



TYPICAL DETAIL OF MASONRY OPENING
(SCALE 1:20)

DOOR SCHEDULE FINISHED

S. NO.	DOOR NO.	SIZE (FINISHED MASONRY OPENING)		TYPE	DESCRIPTION
		WIDTH	HEIGHT		
01	D5	1200	2100	SINGLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL

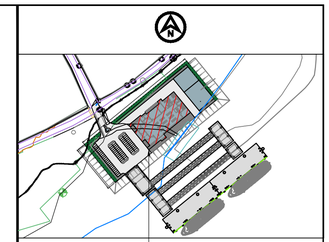
WINDOW SCHEDULE FINISHED

S. NO.	WINDOW NO.	SIZE (FINISHED MASONRY OPENING)		DESCRIPTION
		WIDTH	HEIGHT	
01	V3	1800	450	POWDER COATED ALUMINIUM FIXED FROSTED GLASS LOUVERS VENTILATOR

FINISHING SCHEDULE

GROUND FLOOR

S. NO.	ROOM NAME	FLOOR	CEILING	INTERIOR WALL	EXTERIOR WALL
01	TECHNICAL FLOOR & PLATFORM FOR THE LOFT WATER TANK	KOTA STONE	-	12mm THK. PLASTER FINISHED WITH ACRYLIC EMULSION PAINT WITH PRIMER & WALL PUTTY ON SURFACE	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS
02	STAIRCASE	KOTA STONE	PLASTER WITH WALL PUTTY & EMULSION PAINT	12mm THK. PLASTER FINISHED WITH ACRYLIC EMULSION PAINT WITH PRIMER & WALL PUTTY ON SURFACE	ACRYLIC EMULSION WEATHER PROOF PAINT ON OUTDOOR PUTTY/ AS PER VENDOR SPECIFICATIONS OF 2-3 COATS



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. ALL SERVICES ROUTINGS SHALL HAVE TO BE CO-ORDINATED BY THE CONTRACTOR FINISHING WORKS.
6. UNLESS SPECIFIED OTHERWISE CONTRACTOR TO FOLLOW TENDER SPECIFICATIONS FOR BUILDING FINISHING WORKS.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- HPL PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT
D.B. - DUST BIN

REFUSED AREA FOR DISABLED

DRY & WET WASTE BIN

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
TECHNICAL FLOOR & ROOF PLAN

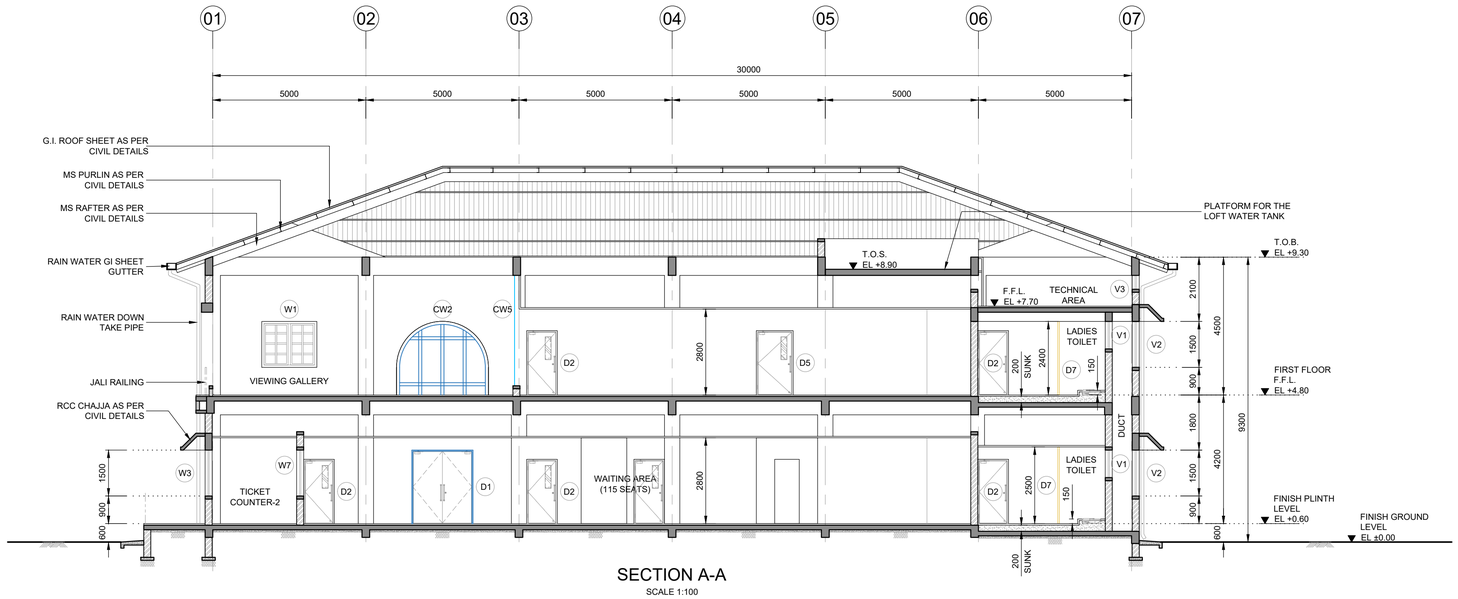
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2122	A3	P01

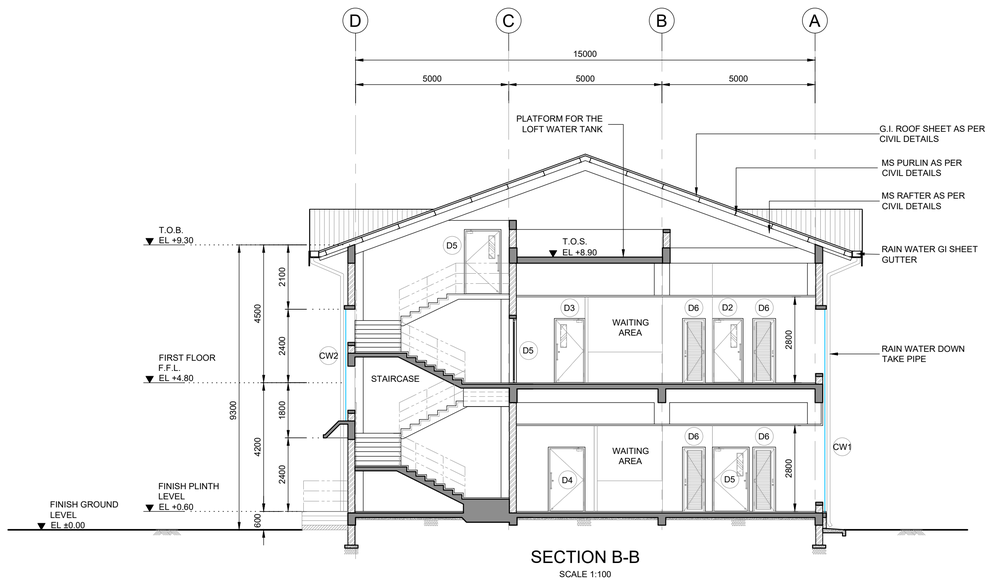
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2123

DO NOT SCALE



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- HPL PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
SECTIONS

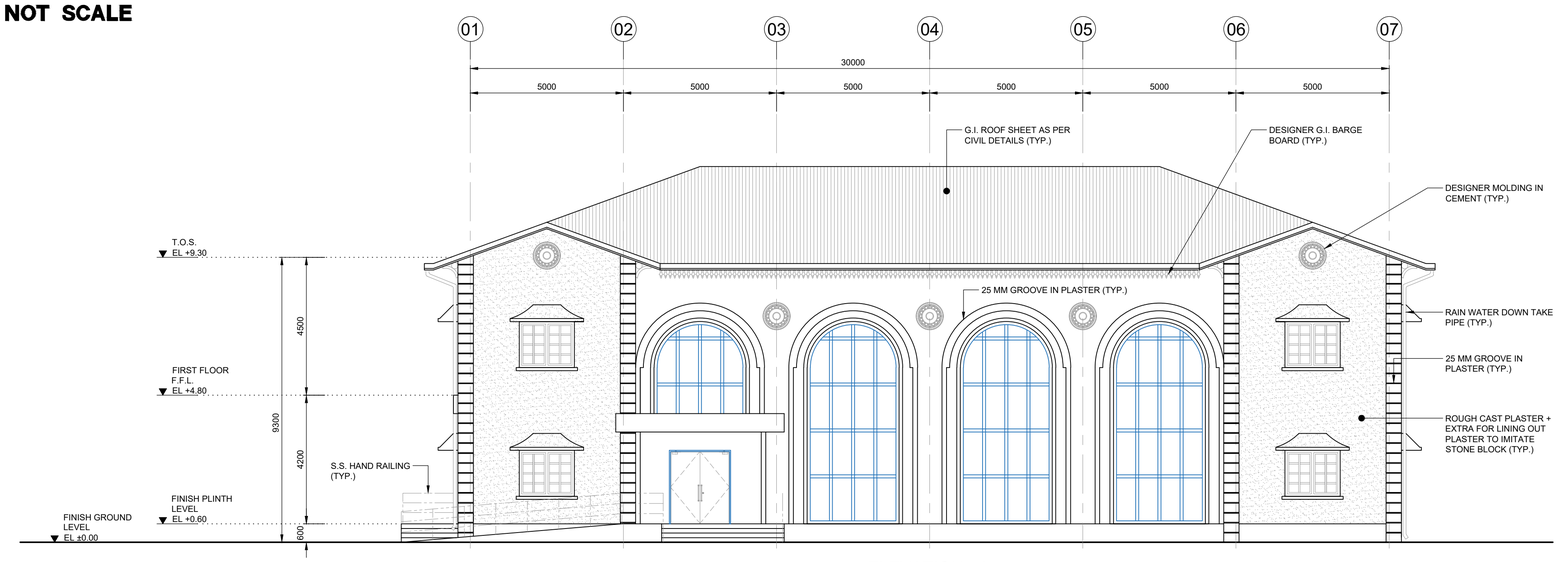
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2123	A3	P01

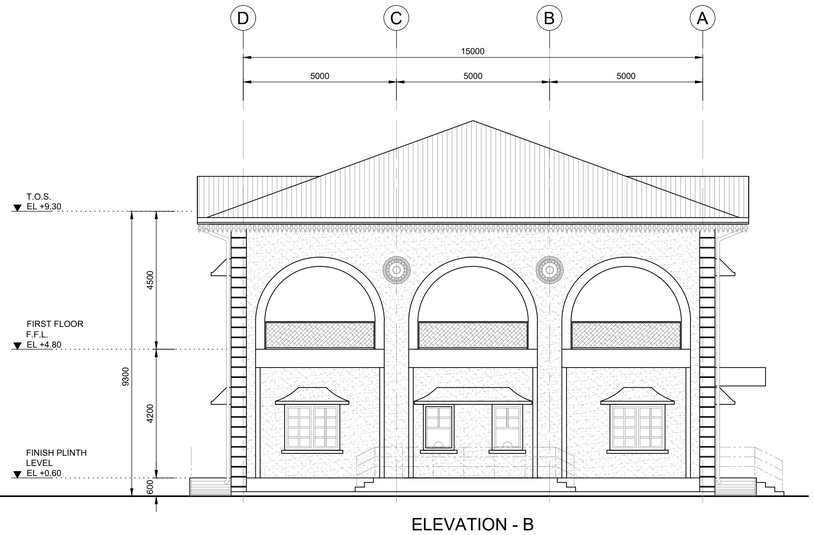
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2124

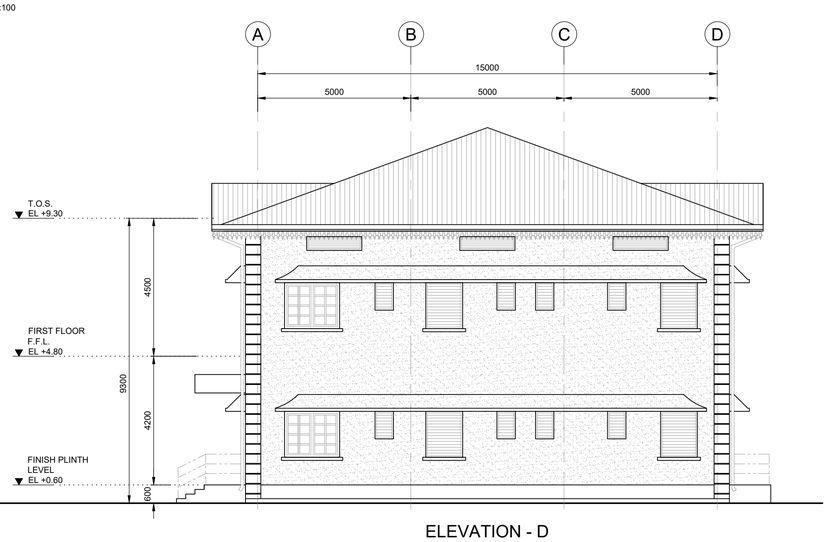
DO NOT SCALE



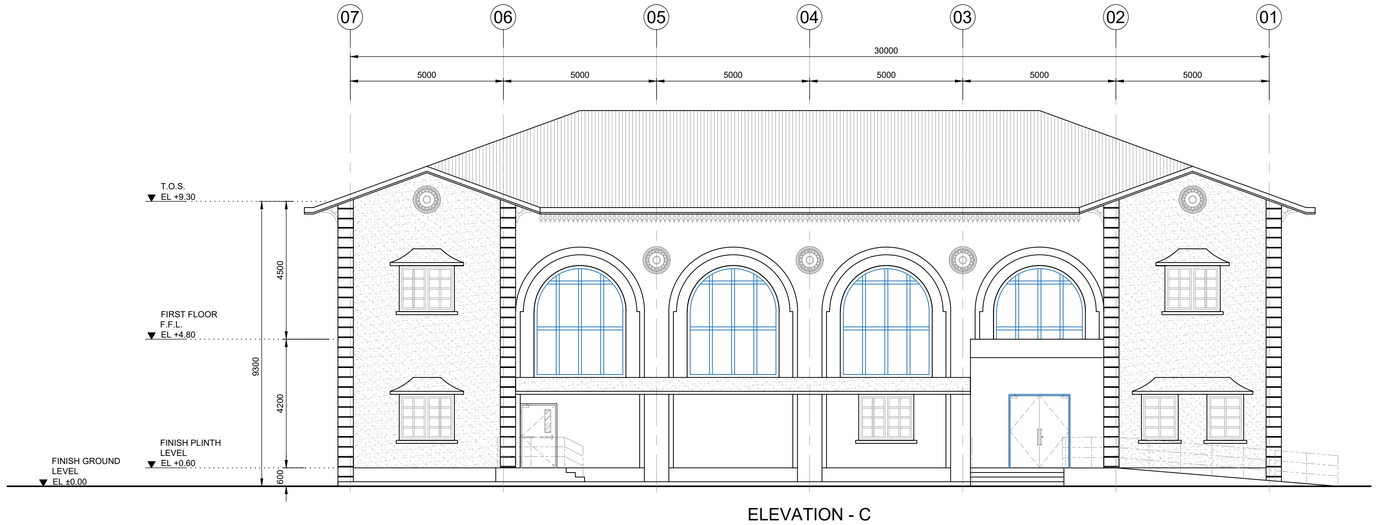
ELEVATION - A
SCALE 1:100



ELEVATION - B
SCALE 1:100



ELEVATION - D
SCALE 1:100



ELEVATION - C
SCALE 1:100

© HaskoningDHV Consulting Pvt. Ltd.

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- HPL PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
HP - HIGHER POINT
LP - LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA.
Tel +91 (0) 22 61396000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

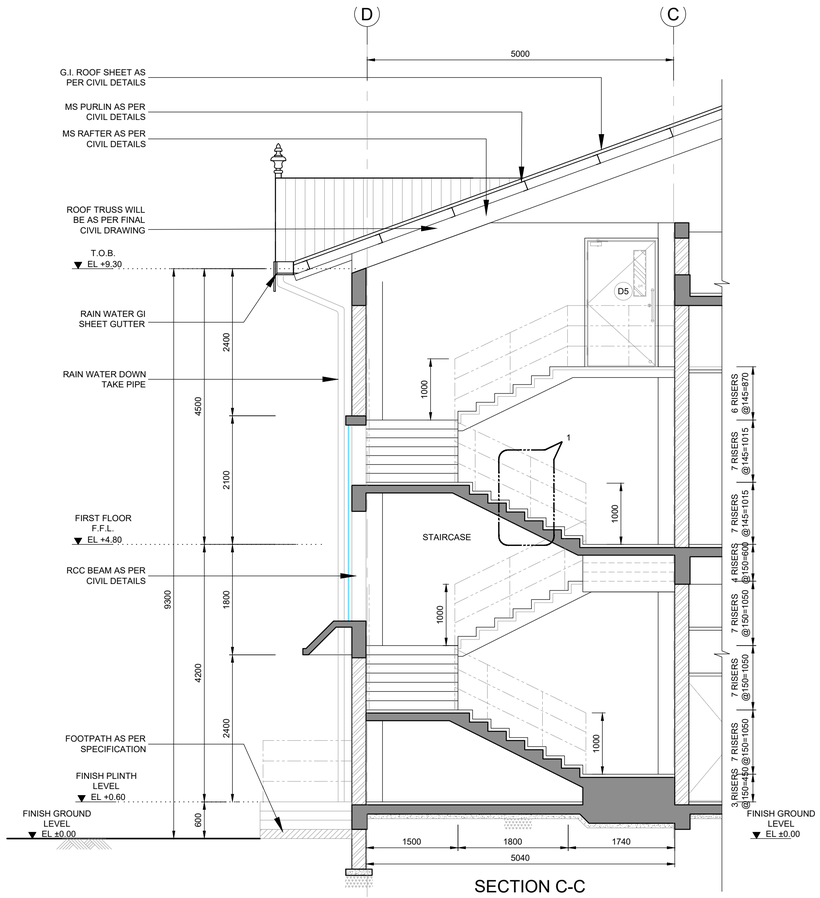
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
ELEVATIONS

DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

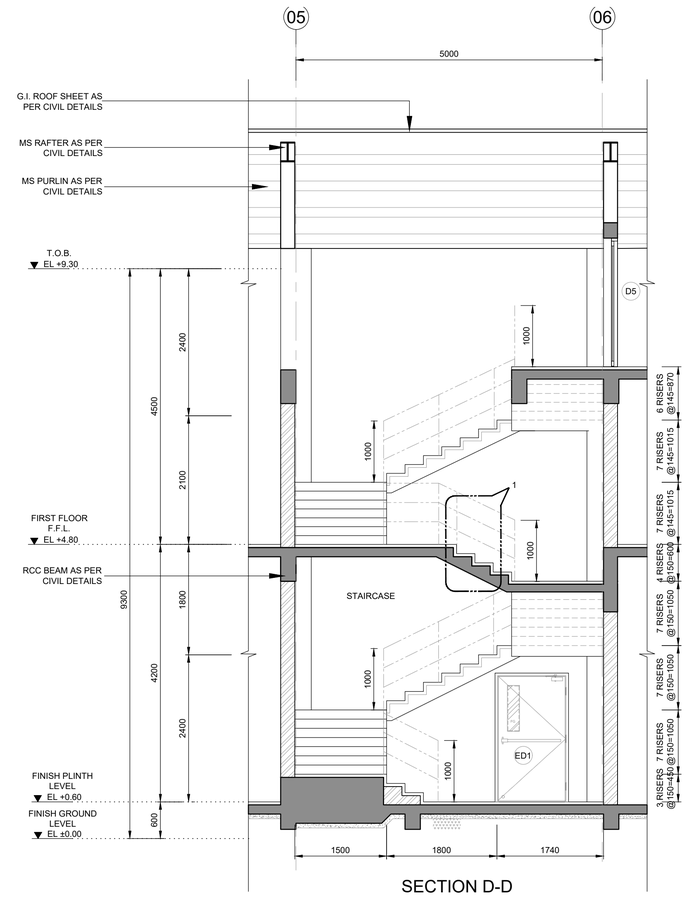
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2124	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2125

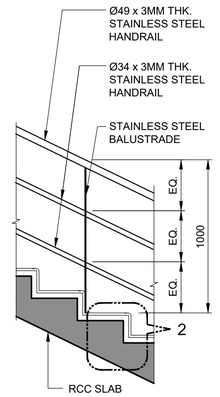
DO NOT SCALE



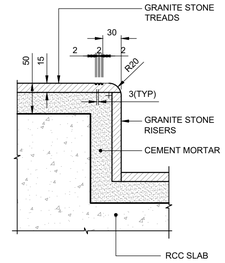
SECTION C-C
SCALE 1:100



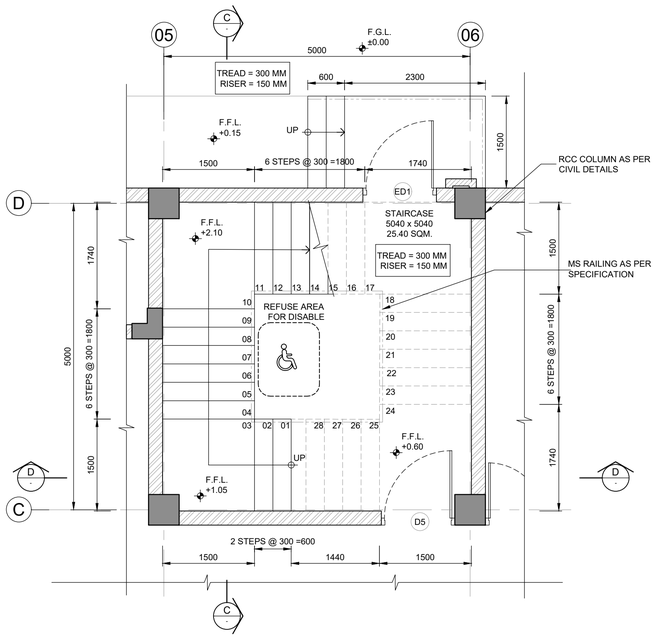
SECTION D-D
SCALE 1:100



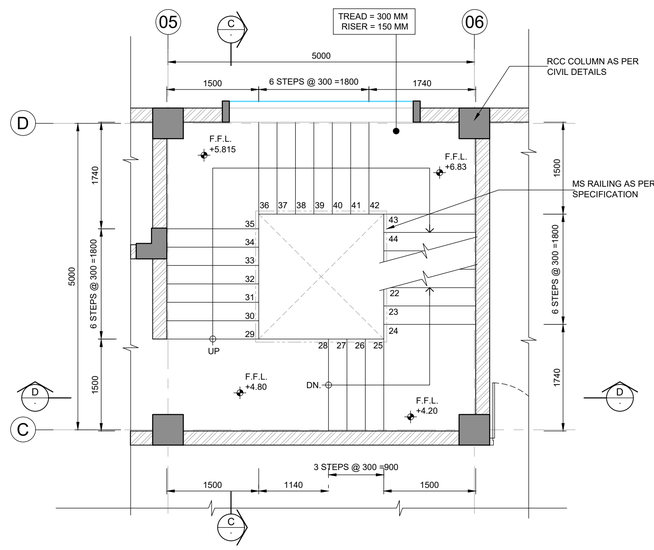
DETAIL-1
SCALE 1:20



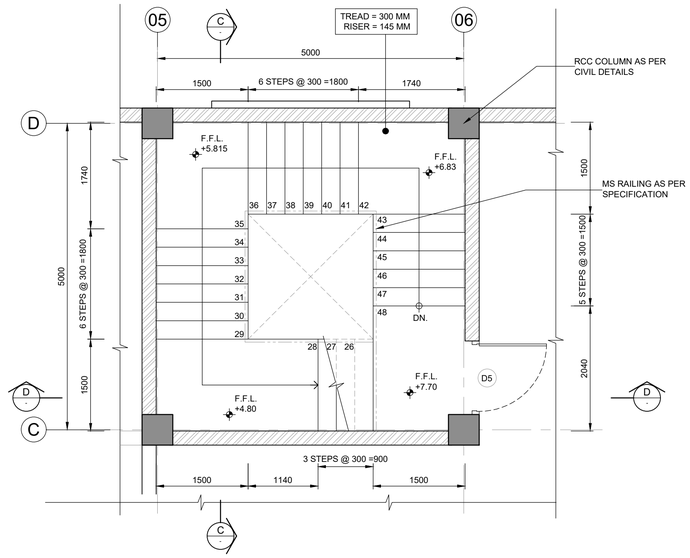
DETAIL-2
SCALE 1:5



GROUND FLOOR PLAN
SCALE 1:50



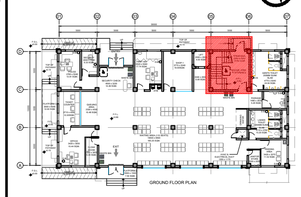
FIRST FLOOR PLAN
SCALE 1:50



TECHNICAL PLATFORM PLAN
SCALE 1:50

© HaskoningDHV Consulting Pvt. Ltd.

KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION

F.G.L.	-	FINISH GROUND LEVEL
F.P.L.	-	FINISH PLINTH LEVEL
F.F.L.	-	FINISH FLOOR LEVEL
T.O.S.	-	TOP OF SLAB
T.O.B.	-	TOP OF BEAM
HP	-	HIGHER POINT
LP	-	LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

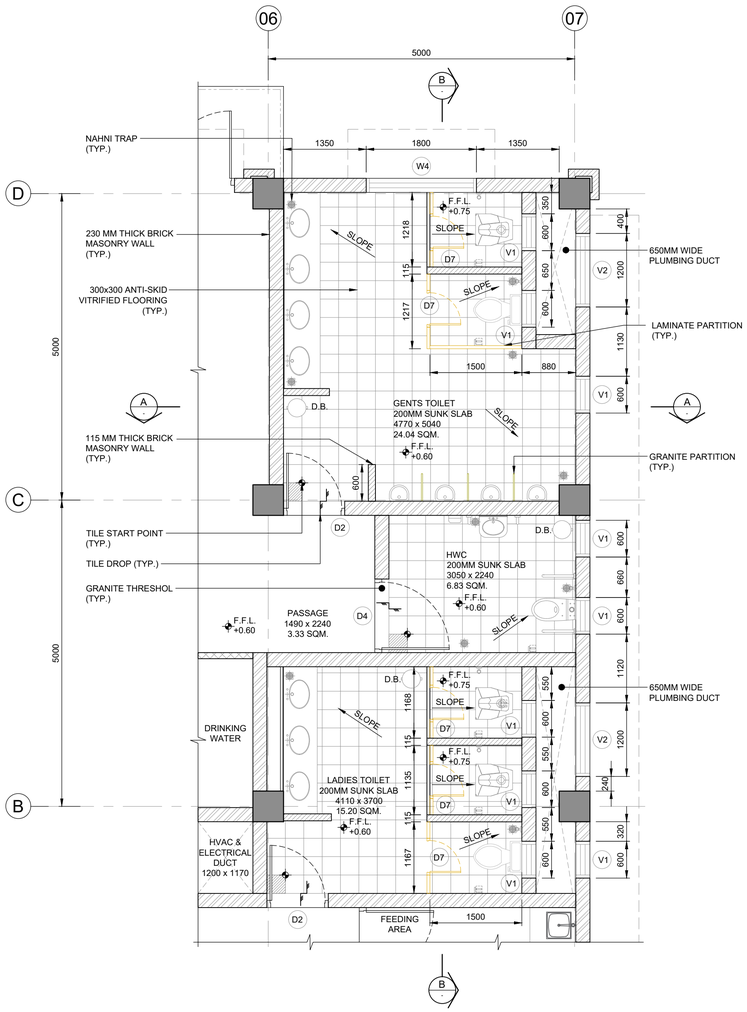
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI) STAIRCASE DETAILS

DRAWN	CHECKED	APPROVED
AI	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

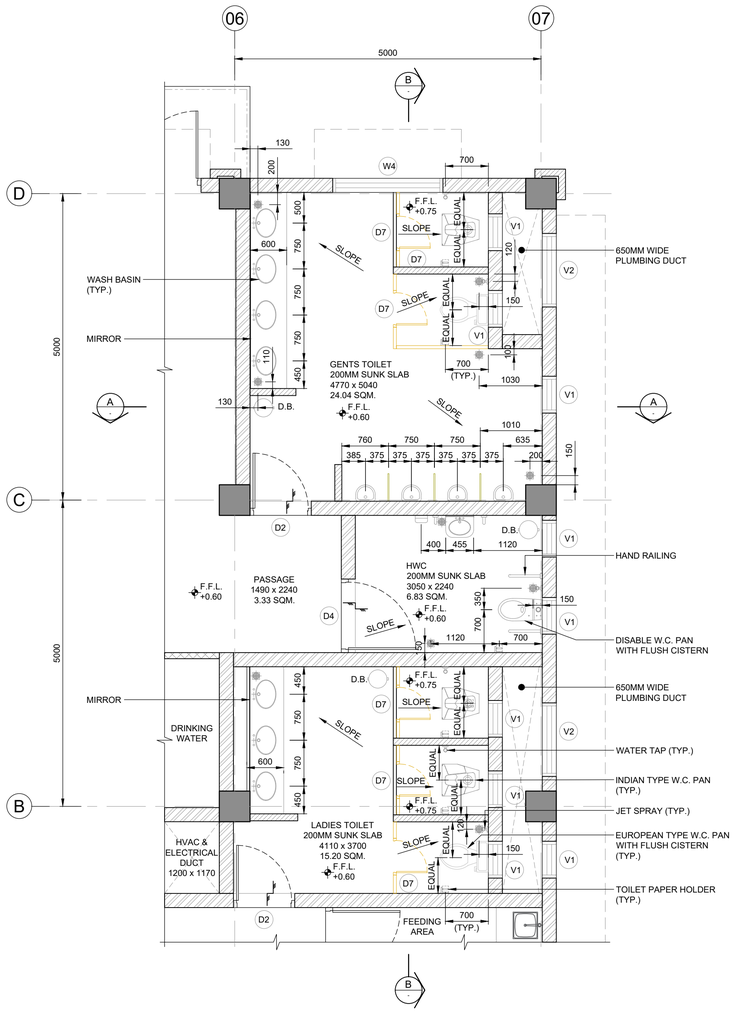
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2125	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2126

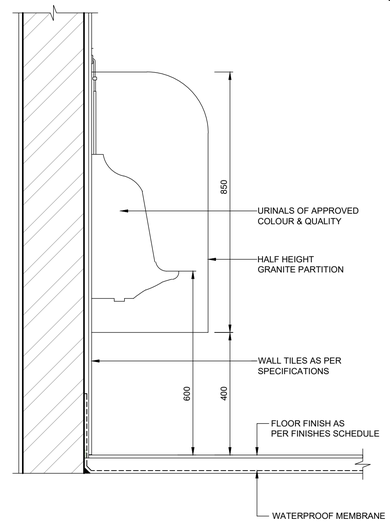
DO NOT SCALE



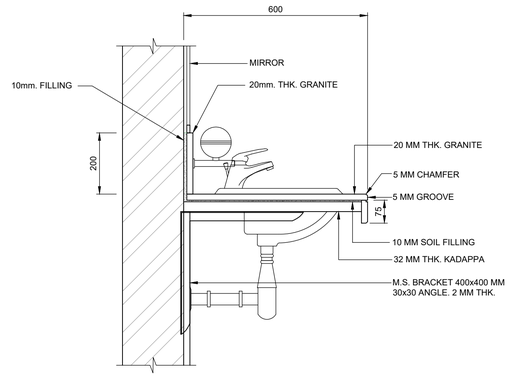
PART GROUND FLOOR PLAN
(FOR CIVIL WORKS)
SCALE 1:50



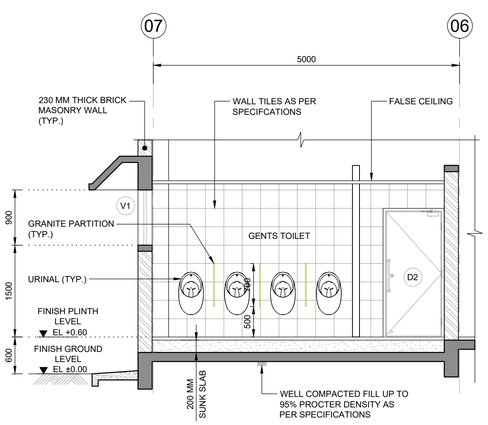
PART GROUND FLOOR PLAN
(FOR SANITARY WORKS)
SCALE 1:50



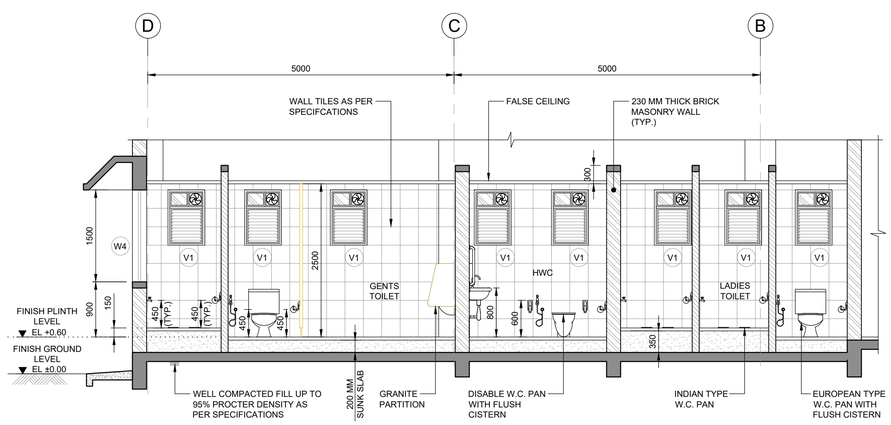
TYPICAL DETAIL FOR URINAL
SCALE 1:10



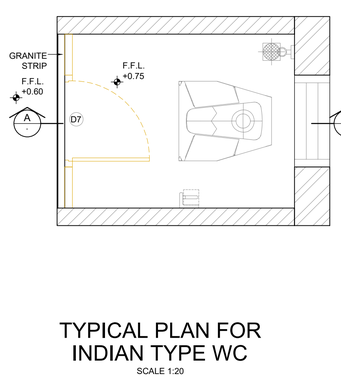
TYPICAL DETAIL FOR WASH BASIN
SCALE 1:10



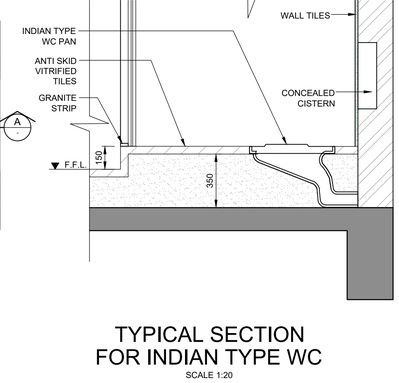
SECTION A - A
SCALE 1:50



SECTION B - B
SCALE 1:50

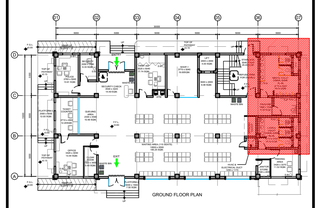


TYPICAL PLAN FOR
INDIAN TYPE WC
SCALE 1:20



TYPICAL SECTION
FOR INDIAN TYPE WC
SCALE 1:20

KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- LAMINATE PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hkdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI)
TOILET DETAILS SHEET 1

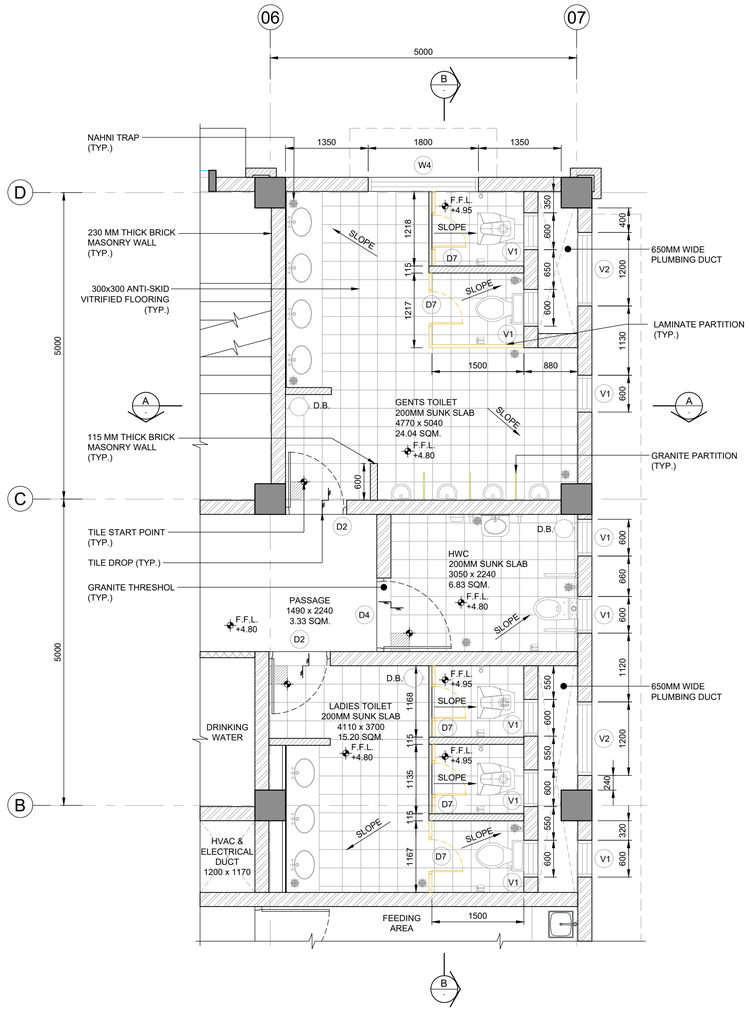
DRAWN	CHECKED	APPROVED
AI	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2126	A3	P01

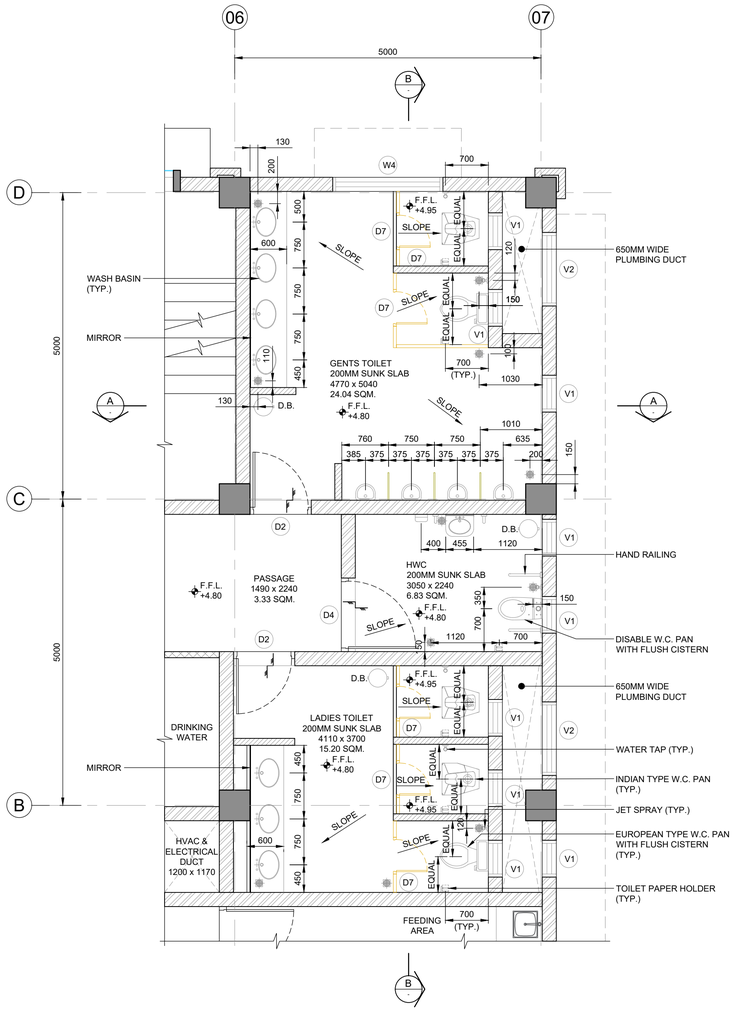
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2127

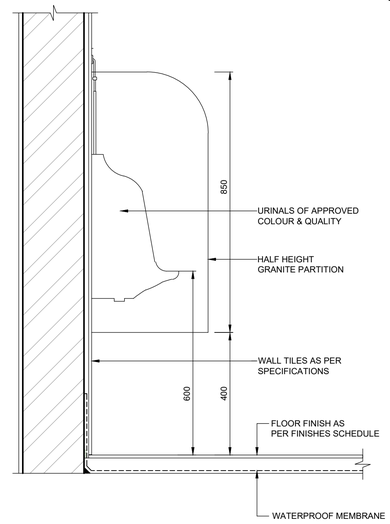
DO NOT SCALE



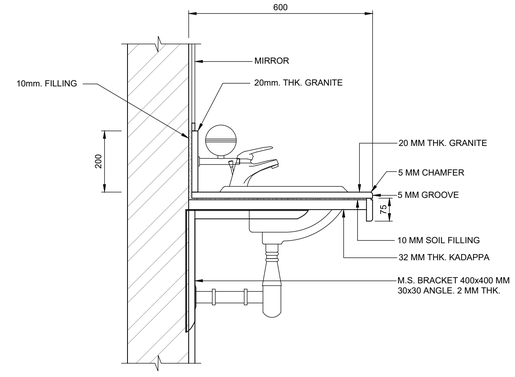
PART FIRST FLOOR PLAN
(FOR CIVIL WORKS)
SCALE 1:50



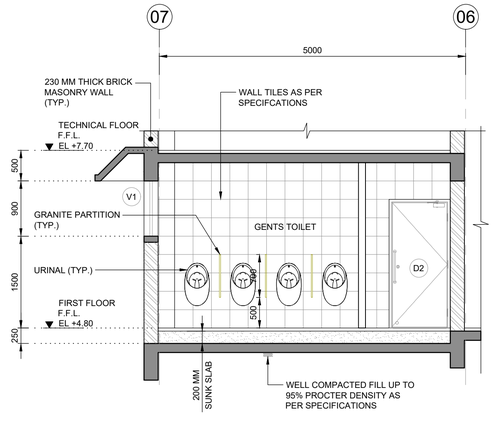
PART FIRST FLOOR PLAN
(FOR SANITARY WORKS)
SCALE 1:50



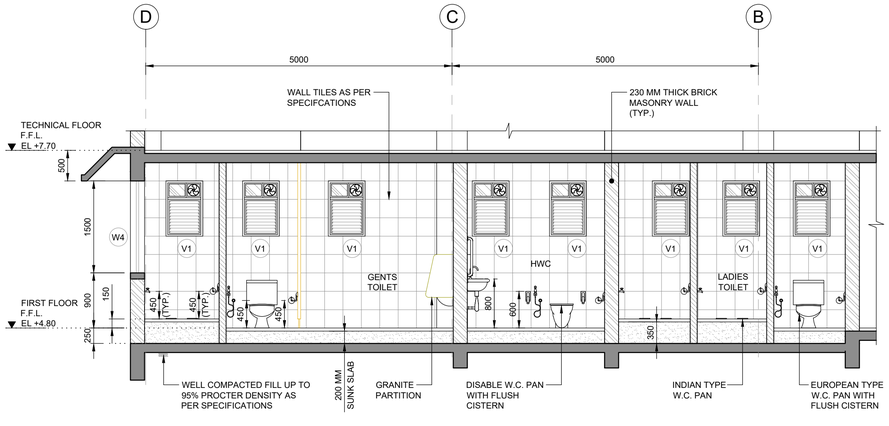
TYPICAL DETAIL FOR URINAL
SCALE 1:10



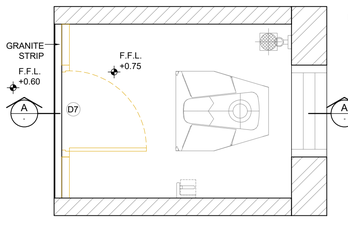
TYPICAL DETAIL FOR WASH BASIN
SCALE 1:10



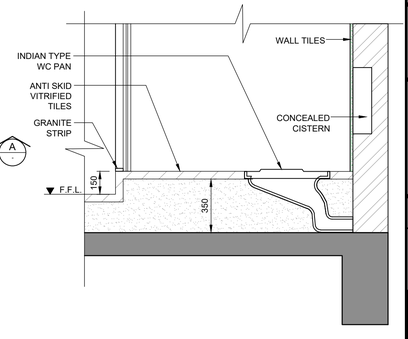
SECTION A - A
SCALE 1:50



SECTION B - B
SCALE 1:50

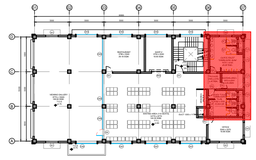


TYPICAL PLAN FOR
INDIAN TYPE WC
SCALE 1:20



TYPICAL SECTION
FOR INDIAN TYPE WC
SCALE 1:20

© HaskoningDHV Consulting Pvt. Ltd.



NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- LAMINATE PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 6th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI)
TOILET DETAILS SHEET 2

DRAWN	CHECKED	APPROVED
AI	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2127	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-A-2128

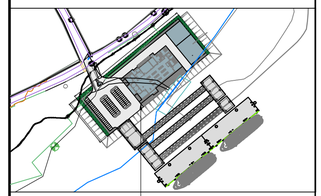
DO NOT SCALE



3D VIEW 1



3D VIEW 2



KEY PLAN

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	AI	GPS	BVD

REVISIONS

CLIENT

Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI)
3D VIEWS

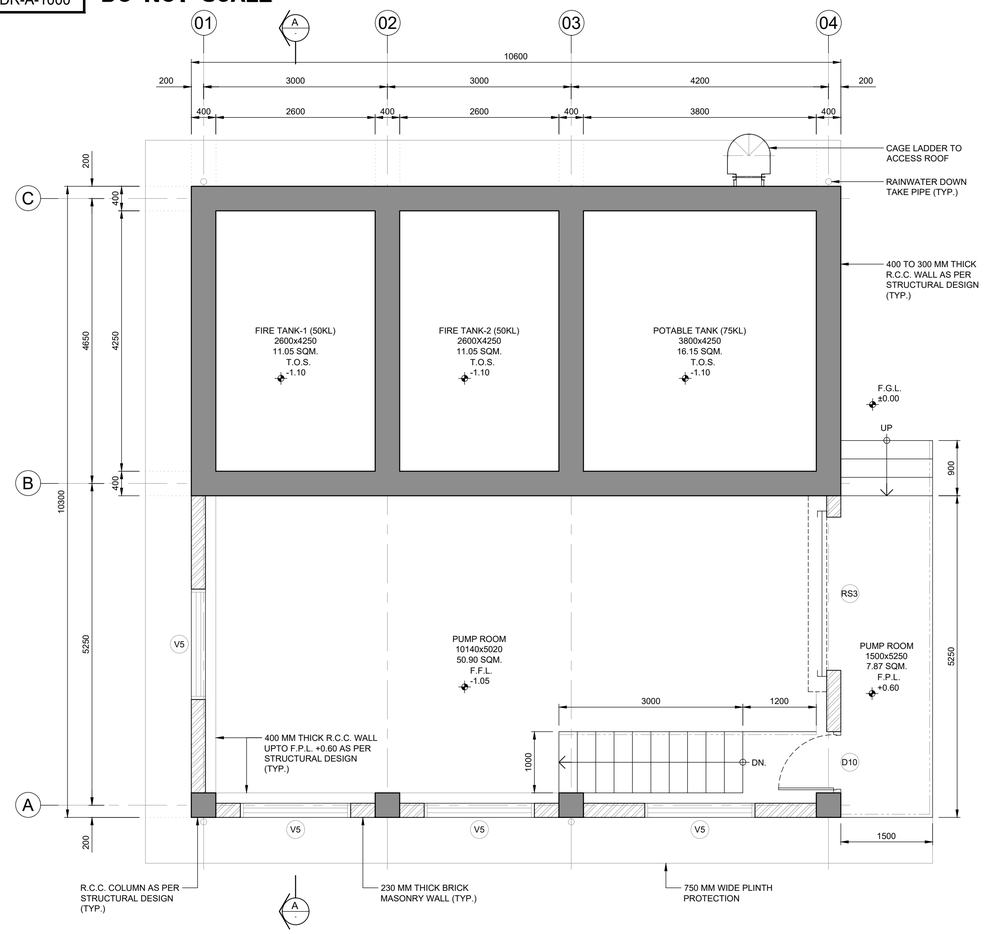
DRAWN	CHECKED	APPROVED
AI	GPS	BVD
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-A-2128	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

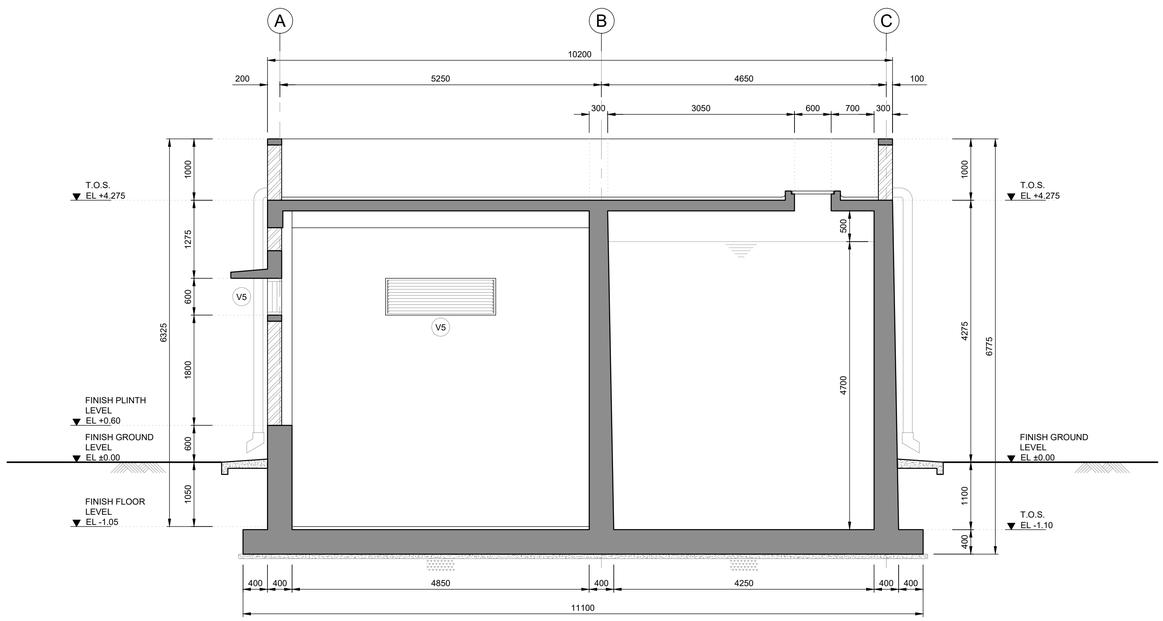
DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1000

DO NOT SCALE



NEAMATI AND NORTH GUWAHATI

SCALE 1:50



SECTION A-A

SCALE 1:50

DOOR SCHEDULE FINISHED

S. NO.	DOOR NO.	SIZE (FINISHED MASONRY OPENING)		TYPE	DESCRIPTION
		WIDTH	HEIGHT		
01	D10	1000	2400	SINGLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL
02	RS3	2500	3000	GEAR OPERATED	ROLLING SHUTTER

WINDOW SCHEDULE FINISHED

S. NO.	WINDOW NO.	SIZE (FINISHED MASONRY OPENING)		DESCRIPTION
		WIDTH	HEIGHT	
01	V5	1800	600	POWDER COATED ALUMINIUM FIXED FROSTED GLASS LOUVERS VENTILATOR

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. ALL THE DIMENSIONS INDICATED IN DRAWING ARE FOR REFERENCE ONLY.
6. CONTRACTOR SHALL PROVIDE ACTUAL ROOM SIZING BASED ON SELECTED MECHANICAL EQUIPMENT'S BY THE CONTRACTOR.
7. STRUCTURAL DESIGN SHALL BE AS PER CONTRACTORS WORKING DESIGN DOCUMENTS.
8. ALL SERVICES ROUTINGS SHALL HAVE TO BE CO-ORDINATED BY THE CONTRACTOR FINISHING WORKS.
9. UNLESS SPECIFIED OTHERWISE CONTRACTOR TO FOLLOW TENDER SPECIFICATIONS FOR BUILDING FINISHING WORKS.
10. CIVIL DESIGN WILL BE AS PER CONTRACTOR'S DETAILED DESIGN
11. BUILDING SIZE SHALL BE AS PER CONTRACTOR'S EQUIPMENT SELECTION.
12. MEP AS PER CONTRACTOR'S DETAILED DESIGN.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.
- 12 MM THICK TOUGHEN CLEAR GLASS PARTITION
- HPL PARTITION (TOILET CUBICLES)

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
WATER TANK AND PUMP ROOM DETAILS

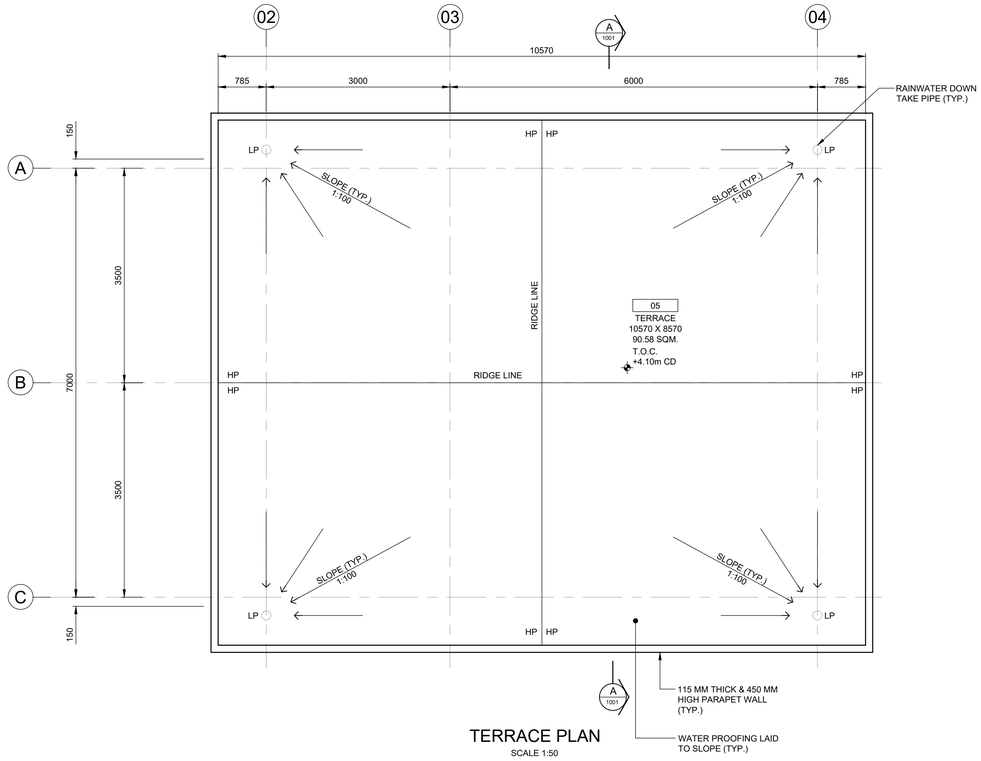
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-ZZ-DR-A-1000	A3	P01

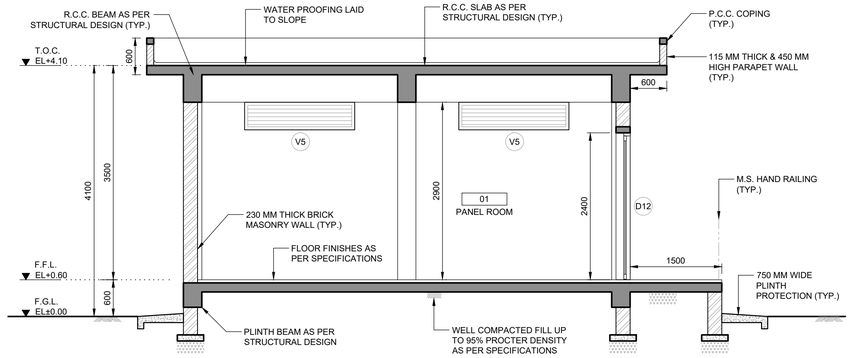
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1001

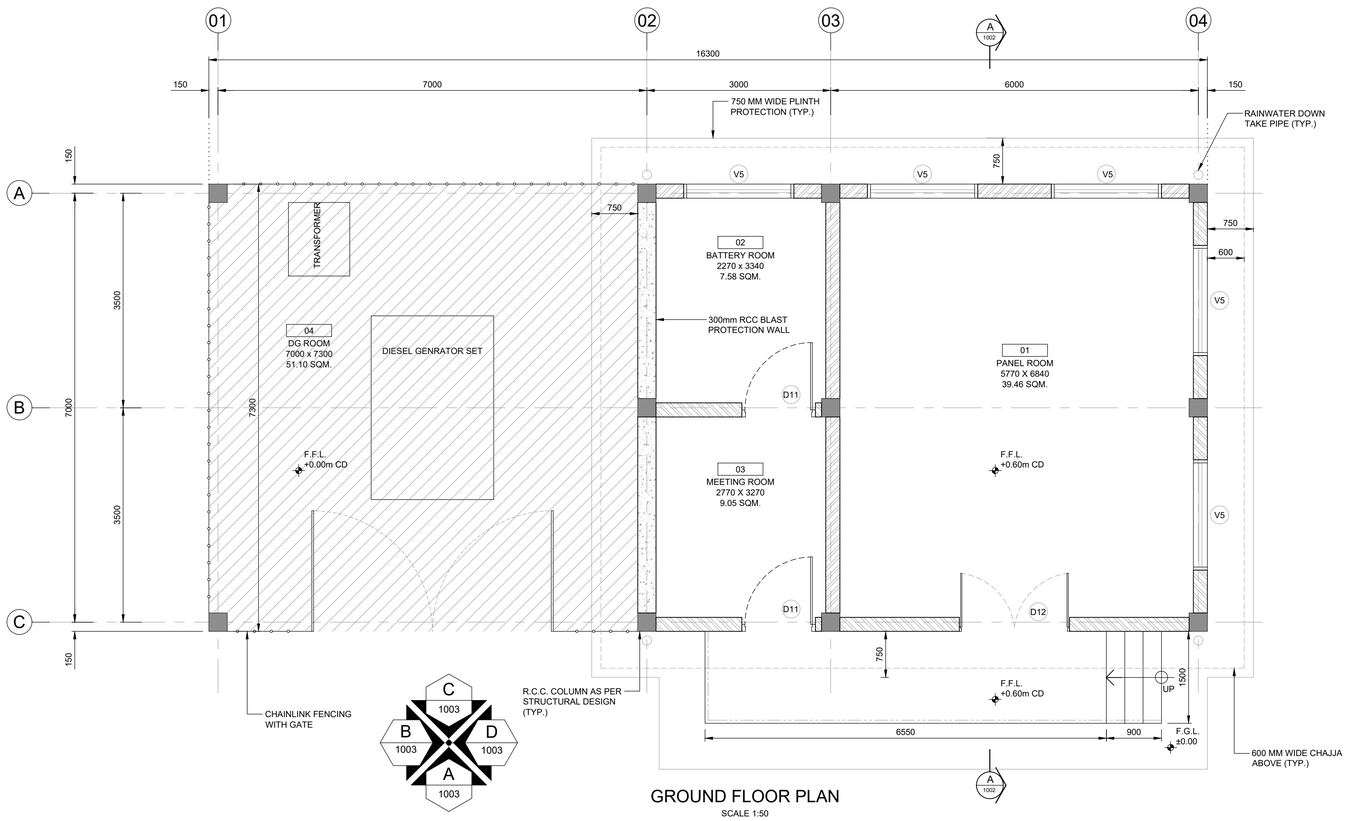
DO NOT SCALE



TERRACE PLAN
SCALE 1:50



SECTION A-A
SCALE 1:50



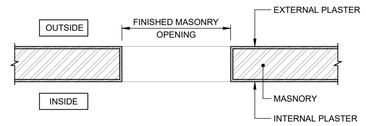
GROUND FLOOR PLAN
SCALE 1:50

DOOR SCHEDULE FINISHED

S. NO.	DOOR NO.	SIZE (FINISHED MASONRY OPENING)		TYPE	DESCRIPTION
		WIDTH	HEIGHT		
01	D11	1200	2400	SINGLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL
02	D12	1800	2400	DOUBLE LEAF	ALUMINUM FLUSH DOOR WITH VISION PANEL

WINDOW SCHEDULE FINISHED

S. NO.	WINDOW NO.	SIZE (FINISHED MASONRY OPENING)		DESCRIPTION
		WIDTH	HEIGHT	
01	V5	1800	600	POWDER COATED ALUMINIUM FIXED FROSTED GLASS LOUVERS VENTILATOR



TYPICAL DETAIL OF MASONRY OPENING
(SCALE 1:20)

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. ALL THE DIMENSIONS INDICATED IN DRAWING ARE FOR REFERENCE ONLY.
6. CONTRACTOR SHALL PROVIDE ACTUAL ROOM SIZING BASED ON SELECTED MECHANICAL EQUIPMENT'S BY THE CONTRACTOR.
7. STRUCTURAL DESIGN SHALL BE AS PER CONTRACTORS WORKING DESIGN DOCUMENTS.
8. ALL SERVICES ROUTINGS SHALL HAVE TO BE CO-ORDINATED BY THE CONTRACTOR FINISHING WORKS.
9. UNLESS SPECIFIED OTHERWISE CONTRACTOR TO FOLLOW TENDER SPECIFICATIONS FOR BUILDING FINISHING WORKS.
10. CIVIL DESIGN WILL BE AS PER CONTRACTOR'S DETAILED DESIGN
11. BUILDING SIZE SHALL BE AS PER CONTRACTOR'S EQUIPMENT SELECTION.
12. MEP AS PER CONTRACTOR'S DETAILED DESIGN.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- R.C.C.

F.G.L. - FINISH GROUND LEVEL
F.P.L. - FINISH PLINTH LEVEL
F.F.L. - FINISH FLOOR LEVEL
T.O.S. - TOP OF SLAB
T.O.B. - TOP OF BEAM
HP - HIGHER POINT
LP - LOWER POINT

TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
SWITCHING STATION DETAILS PLAN & SECTION

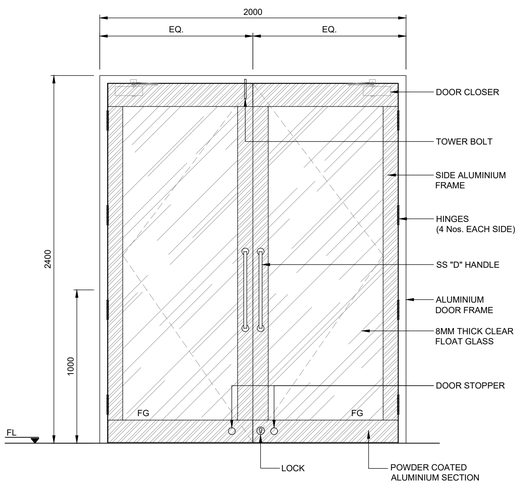
DRAWN	CHECKED	APPROVED
AI	GPS	BVD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

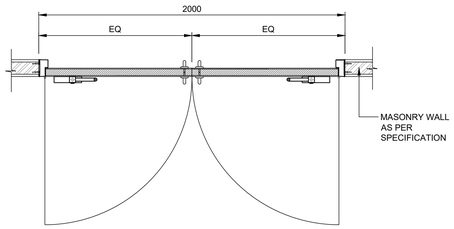
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-ZZ-DR-A-1001	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1002

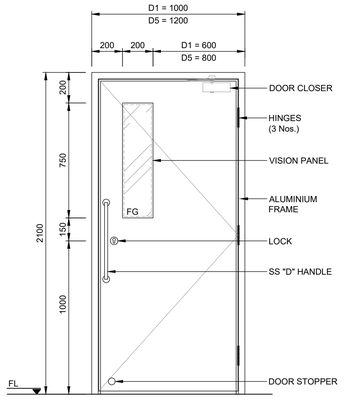
DO NOT SCALE

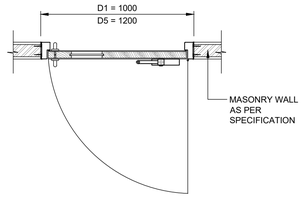




** NOTE : FG = FIXED GLASS

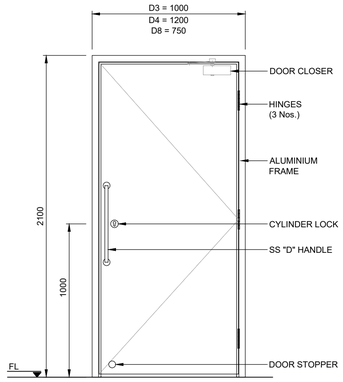
DOOR NAME	D1
DESCRIPTION	DOUBLE LEAF DOOR WITH CLEAR FLOAT GLASS WITH SIDE ALUMINIUM FRAMES, TOP & BOTTOM RAIL ALUMINIUM SECTION
LEAF DIMENSIONS (W,H)	2000 x 2400
FINISH	8 MM THICK CLEAR FLOAT GLASS WITH SS BRUSH FINISH 18" LONG HANDLE
FIRE RATED	---

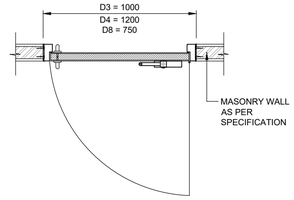




** NOTE : FG = FIXED GLASS

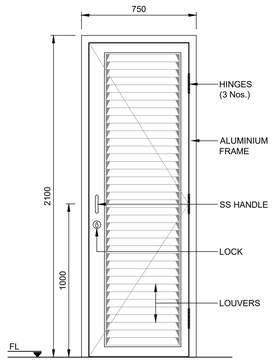
DOOR NAME	D2 / D5
DESCRIPTION	SINGLE LEAF ALUMINIUM SHUTTER FLUSH DOOR WITH VISION PANEL
LEAF DIMENSIONS (W,H)	D2 = 1000 x 2100 / D5 = 1200 x 2100
FINISH	POWDER COATED ALUMINIUM FLUSH DOOR PANEL
FIRE RATED	---

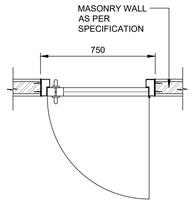




** NOTE : FG = FIXED GLASS

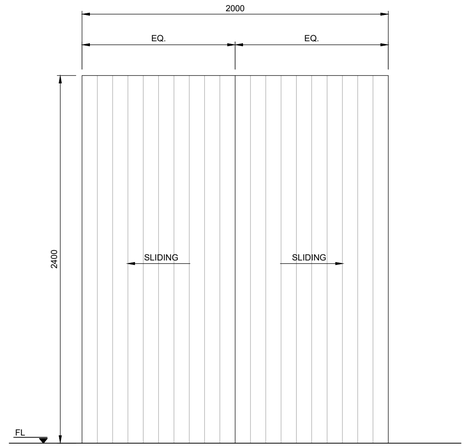
DOOR NAME	D3 / D4 / D8
DESCRIPTION	SINGLE LEAF ALUMINIUM SHUTTER FLUSH DOOR
LEAF DIMENSIONS (W,H)	D3 = 1000 x 2100 / D4 = 1200 x 2100 / D8 = 750 x 2100
FINISH	POWDER COATED ALUMINIUM FLUSH DOOR PANEL
FIRE RATED	---

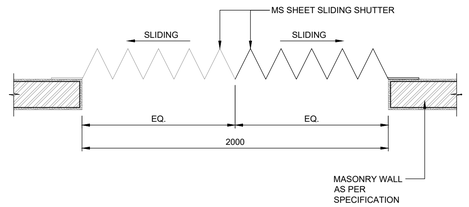




** NOTE : FG = FIXED GLASS

DOOR NAME	D6
DESCRIPTION	ALUMINIUM LOUVERS DOOR
LEAF DIMENSIONS (W,H)	750 x 2100
FINISH	ALUMINIUM LOVERS DOOR
FIRE RATED	---





** NOTE : FG = FIXED GLASS

DOOR NAME	SG1
DESCRIPTION	SLIDING SHUTTER DOOR
LEAF DIMENSIONS (W,H)	2000 x 2400
FINISH	MS SHEET SLIDING SHUTTER DOOR
FIRE RATED	---

DOORS - HARDWARE SCHEDULE

HARDWARE	PRODUCT	QUANTITY						
		D1 (EACH)	D2 (EACH)	D3 (EACH)	D4 (EACH)	D5 (EACH)	D6 (EACH)	D8 (EACH)
FLUSH HINGE	FLUSH HINGE 127 x 78 x 3 MM SS 304, SATIN FINISH, MAX WT - 60 KG.	8	3	3	3	3	3	3
CYLINDER LOCK	EURO PROFILE CYLINDER WITH KEYS 3225, 65 MM KEY x KEY, SATIN SILVER FINISH	-	1	1	1	1	-	1
PULL HANDLE	PULL HANDLE 350 x 25 MM, CTC - 350 MM, D - 25 MM, BACK TO BACK FIXING WITH SUITABLE FIXING ACCESSORIES, SS 304, FINISH : SATIN	2	1	1	1	1	1	1
DOOR CLOSER	RACK AND PINION DOOR CLOSER TS 72 EN SIZE 2-4, WITH STD. ARM AND WITH TWO INDEPENDENT CLOSING VALVES AND LATCHING SPEED ADJUSTABLE BY ARM. ALL ADJUSTMENT SCREWS FACE FIXED. SILVER FINISH, AS PER EN 1154.	2	1	1	1	1	-	1
FLOOR DOOR STOP	FLOOR DOOR STOP HALF DOME WITH 45 MM DIA, 626 SATIN CHROME FINISH	2	1	1	1	1	-	1
FIRE RATED GLASS	CLEAR FIRE RATED GLASS, 6 MM, 120 MIN, OF SIZE 200 x 300 MM	-	1	-	-	1	-	-
NARROW STILE DEAD LOCK	NARROW STILE DEAD LOCK PACKAGE CONSISTING OF NARROW STILE DEAD LOCK 25 MM BACKSET WITH STRIKE PLATE, EPC 70 MM AND ESCUTCHEONS, FINISH = SSS	1	-	-	-	-	1	-
FLUSH BOLT	LEVER ACTION FLUSH BOLT WITH 19 MM PROJECTING BOLT L = 300 MM FOR METAL DOOR IN SATIN CHROME	1	-	-	-	-	-	-

© HaskoningDHV Consulting Pvt. Ltd.

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

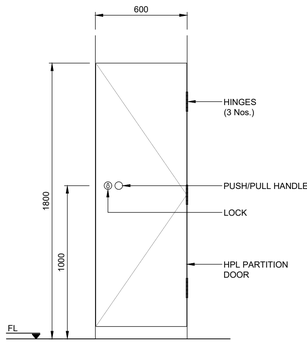
ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

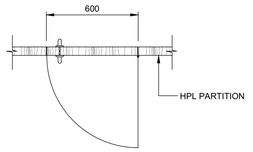
TITLE
DOOR DETAILS & SCHEDULE SHEET-1

DRAWN ZR	CHECKED GPS	APPROVED BVD	
DATE FEB 2023	SCALE @A1 N.T.S.	REF.	
DRAWING No. DI1530-RHD-ZZ-ZZ-DR-A-1002		SUITABILITY A3	REVISION P01

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1003

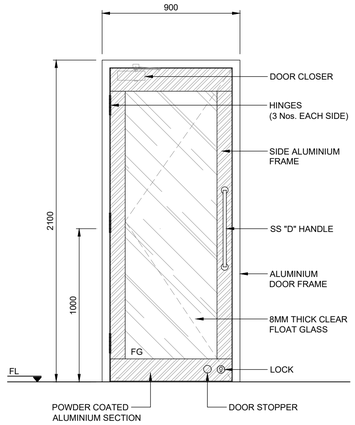
DO NOT SCALE

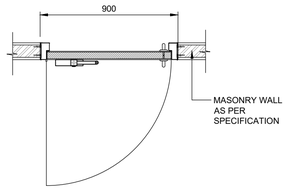




** NOTE : FG = FIXED GLASS

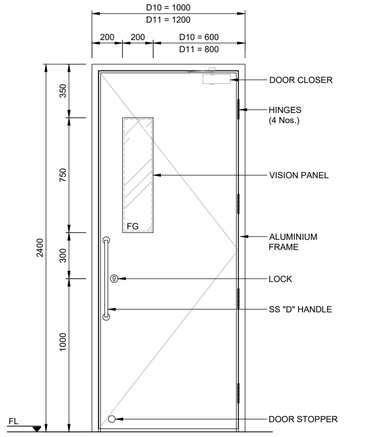
DOOR NAME	D7
DESCRIPTION	SINGLE LEAF DOOR
LEAF DIMENSIONS (W,H)	600 x 1800
FINISH	HIGH PRESSURE LAMINATE WATER RESISTANT PANEL
FIRE RATED	---

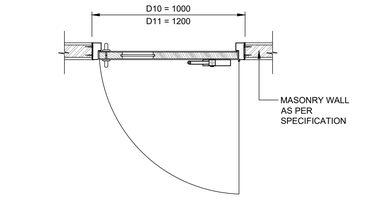




** NOTE : FG = FIXED GLASS

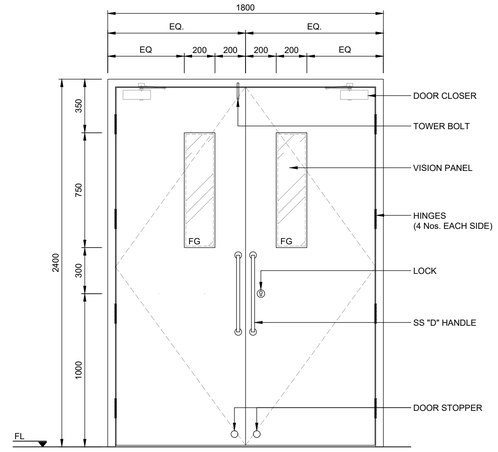
DOOR NAME	D9
DESCRIPTION	SINGLE LEAF DOOR WITH CLEAR FLOAT GLASS WITH SIDE ALUMINIUM FRAMES, TOP & BOTTOM RAIL ALUMINIUM SECTION
LEAF DIMENSIONS (W,H)	900 x 2100
FINISH	8 MM CLEAR FLOAT GLASS WITH SS BRUSH FINISH 18" LONG HANDLE
FIRE RATED	---

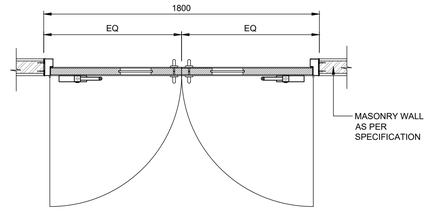




** NOTE : FG = FIXED GLASS

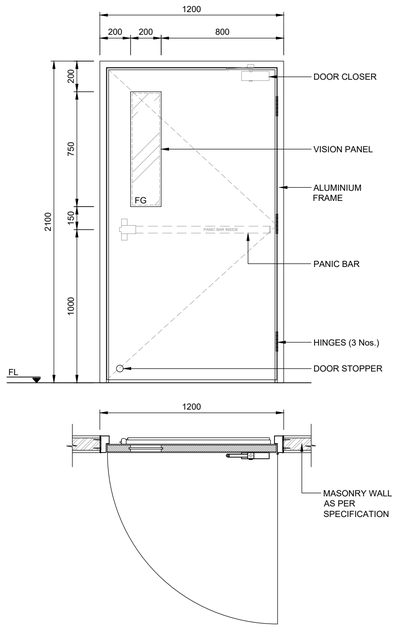
DOOR NAME	D10 / D11
DESCRIPTION	SINGLE LEAF ALUMINIUM SHUTTER FLUSH DOOR WITH VISION PANEL
LEAF DIMENSIONS (W,H)	D10 = 1000 x 2400 / D11 = 1200 x 2400
FINISH	POWDER COATED ALUMINIUM FLUSH DOOR PANEL
FIRE RATED	---





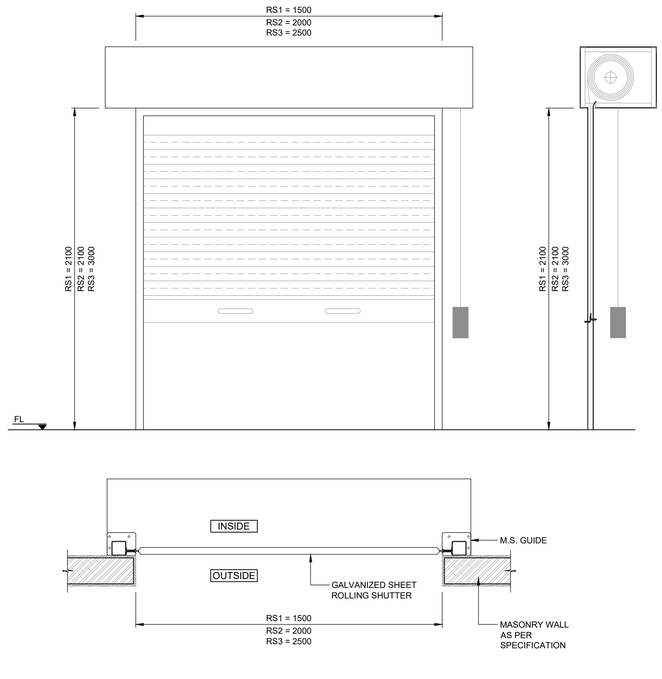
** NOTE : FG = FIXED GLASS

DOOR NAME	D12
DESCRIPTION	DOUBLE LEAF ALUMINIUM SHUTTER FLUSH DOOR WITH VISION PANEL
LEAF DIMENSIONS (W,H)	1800 x 2400
FINISH	POWDER COATED ALUMINIUM FLUSH DOOR PANEL
FIRE RATED	---



** NOTE : FG = FIXED GLASS

DOOR NAME	ED1
DESCRIPTION	SINGLE LEAF G.I SHUTTER FLUSH DOOR WITH VISION PANEL
LEAF DIMENSIONS (W,H)	1200 x 2100
FINISH	G.I. PAINTED FIRE RATED DOOR
FIRE RATED	02 HOURS



** NOTE : FG = FIXED GLASS

DOOR NAME	RS1 / RS2 / RS3
DESCRIPTION	GALVANIZED ROLLING SHUTTER
LEAF DIMENSIONS (W,H)	RS1 = 1500 x 2100 / RS2 = 2000 x 2100 / RS3 = 2500 x 3000
FINISH	18 GAUGE (1.25mm) PRE PAINTED HOT DIP GALVANIZED STEEL GEAR OPERATED ROLLING SHUTTER DOOR
FIRE RATED	---

DOORS - HARDWARE SCHEDULE

HARDWARE	PRODUCT	QUANTITY					
		D7 (EACH)	D9 (EACH)	D10 (EACH)	D11 (EACH)	D12 (EACH)	ED1 (EACH)
FLUSH HINGE	FLUSH HINGE 127 x 78 x 3 MM SS 304, SATIN FINISH, MAX WT - 60 KG.	3	3	4	4	8	-
CYLINDER LOCK	EURO PROFILE CYLINDER WITH KEYS 3225, 65 MM KEY x KEY, SATIN SILVER FINISH	-	-	1	1	1	-
PULL HANDLE	PULL HANDLE 350 x 25 MM, CTC - 350 MM, D - 25 MM, BACK TO BACK FIXING WITH SUITABLE FIXING ACCESSORIES, SS 304, FINISH : SATIN	-	1	1	1	2	-
DOOR CLOSER	RACK AND PINION DOOR CLOSER TS 72 EN SIZE 2-4, WITH STD. ARM AND WITH TWO INDEPENDENT CLOSING VALVES AND LATCHING SPEED ADJUSTABLE BY ARM. ALL ADJUSTMENT SCREWS FACE FIXED. SILVER FINISH, AS PER EN 1154.	-	1	1	1	2	1
FLOOR DOOR STOP	FLOOR DOOR STOP HALF DOME WITH 45 MM DIA, 626 SATIN CHROME FINISH	-	1	1	1	2	-
FIRE RATED GLASS	CLEAR FIRE RATED GLASS, 6 MM, 120 MIN, OF SIZE 200 x 300 MM	-	-	1	1	2	1
BUTT HINGE	BALL BEARING BUTT HINGE, BB3090F, SS304, OF SIZE 100 x 75 x 3 MM WITH SCREW IN SSS	-	-	-	-	-	3
SURFACE PANIC LATCH	SURFACE PANIC LATCH PHA 2000, SILVER FINISH	-	-	-	-	-	1
PANIC STRIKE PLATE	PANIC STRIKE PLATE WITH 3 NOS SHIMS 1.5 MM - HORMANN	-	-	-	-	-	1
EXTERNAL TRIM PLATE	EXTERNAL TRIM FOR PANIC DEVICE PHT 3905, WITHOUT HALF CYLINDER, SILVER FINISH	-	-	-	-	-	1
GASKET	GASKET, FIRE RATED 4 MM THICK x 13 MM, BLACK	-	-	-	-	-	4
FIRE AND SMOKE SEAL	FIRE AND SMOKE SEAL C421 (ART. NO. 315092), BLACK	-	-	-	-	-	7
INSTALLATION KIT	INSTALLATION KIT : NYLON ANCHOR & OTHER MISC ITEMS	-	-	-	-	-	1
PUSH/PULL HANDLE	PUSH/PULL HANDLE BACK TO BACK WITH ADJUSTABLE FIXING FOR HPL PANEL, SSS	1	-	-	-	-	-
LOCK	AOGAO 30-2 STAINLESS STEEL 304 TOILET DOOR LOCK	1	-	-	-	-	-
NARROW STILE DEAD LOCK	NARROW STILE DEAD LOCK PACKAGE CONSISTING OF NARROW STILE DEAD LOCK 25 MM BACKSET WITH STRIKE PLATE, EPC 70 MM AND ESCUTCHEONS, FINISH = SSS	-	1	-	-	-	-

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
DOOR DETAILS & SCHEDULE SHEET-2

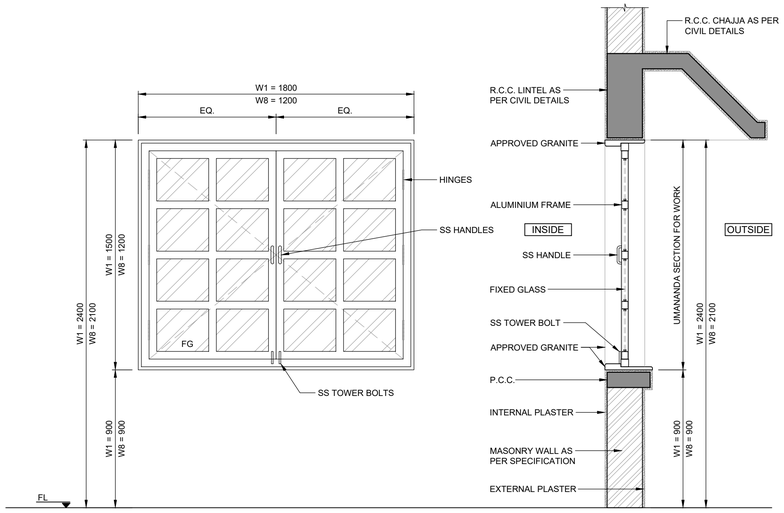
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: N.T.S.	REF.

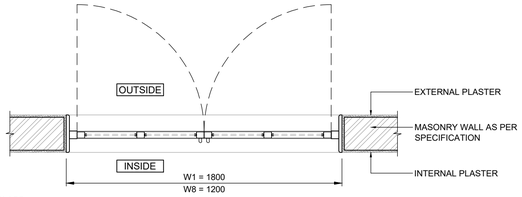
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-ZZ-DR-A-1003	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1004

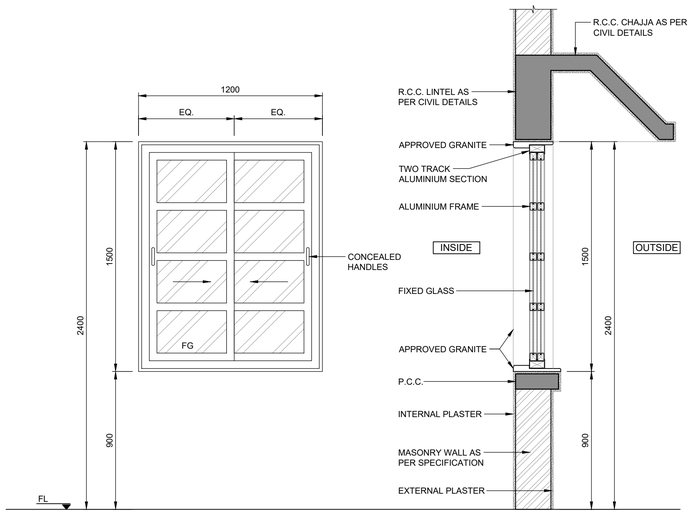
DO NOT SCALE

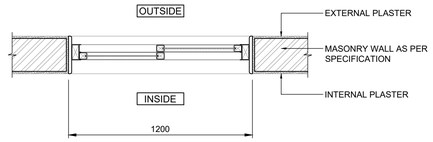




** NOTE : FG = FIXED GLASS

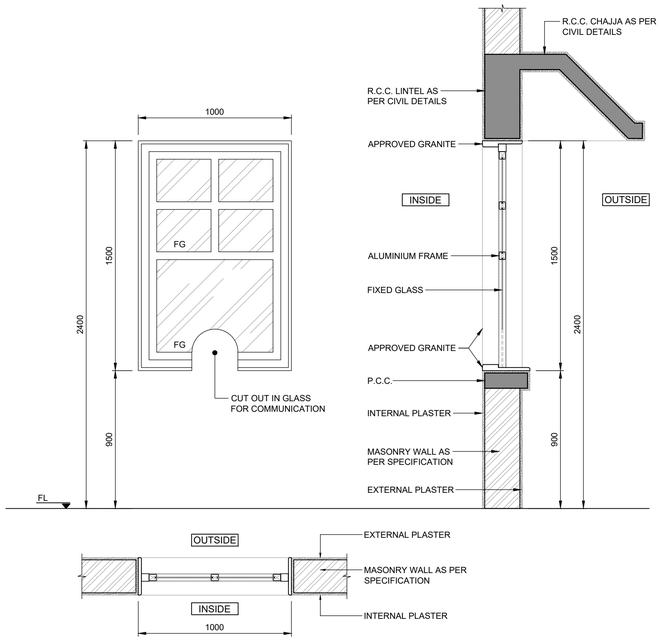
WINDOW NAME	W1 / W8
DESCRIPTION	CLEAR GLASS + ALUMINIUM OPENABLE SHUTTER WINDOW
LEAF DIMENSIONS (W,H)	W1 = 1800 x 1500 / W8 = 1200 x 1200
FINISH	SINGLE GLAZED WINDOW WITH ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION
QUANTITY	-
FIRE RATED	---





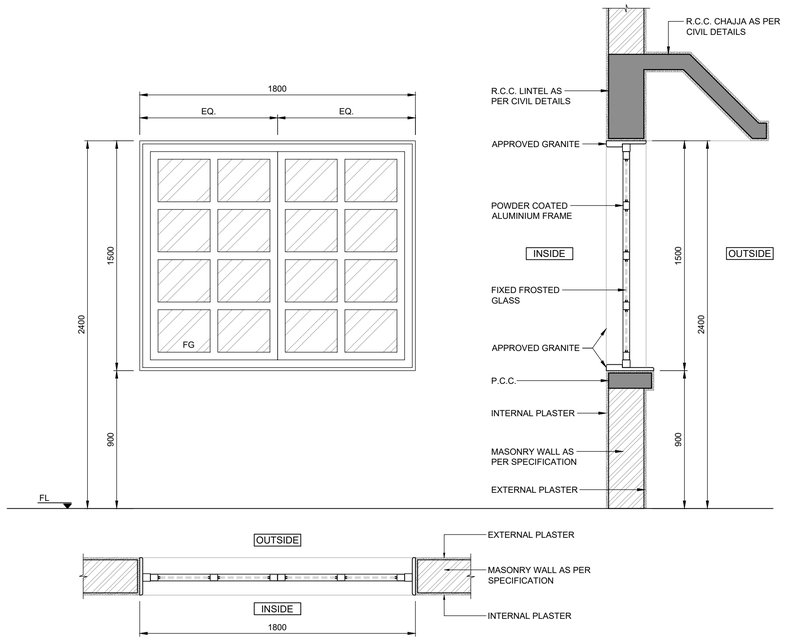
** NOTE : FG = FIXED GLASS

WINDOW NAME	W2
DESCRIPTION	TWO TRACK ALUMINIUM SLIDING WINDOW WITH 5MM. THICK FLOAT GLASS
LEAF DIMENSIONS (W,H)	1200 x 1500
FINISH	CLEAR GLASS WINDOW WITH ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION
QUANTITY	-
FIRE RATED	---



** NOTE : FG = FIXED GLASS

WINDOW NAME	W3
DESCRIPTION	FIXED CLEAR GLASS COMMUNICATION WINDOW
LEAF DIMENSIONS (W,H)	1000 x 1500
FINISH	CLEAR GLASS WINDOW WITH ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION
QUANTITY	-
FIRE RATED	---



** NOTE : FG = FIXED GLASS

WINDOW NAME	W4
DESCRIPTION	FIXED FROSTED GLASS WINDOW
LEAF DIMENSIONS (W,H)	1800 x 1500
FINISH	ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION, FROSTED GLASS
QUANTITY	-
FIRE RATED	---

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
WINDOW DETAILS & SCHEDULE SHEET-1

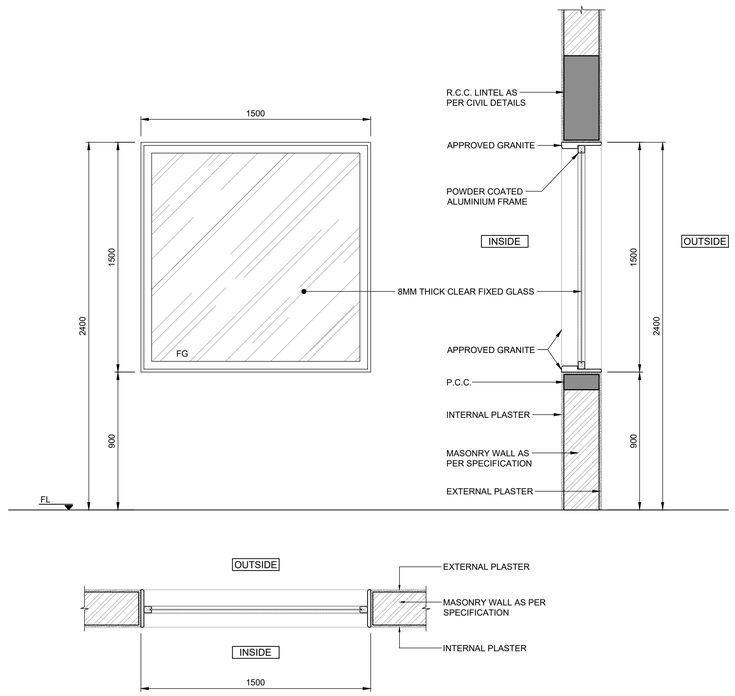
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: N.T.S.	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-ZZ-DR-A-1004	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

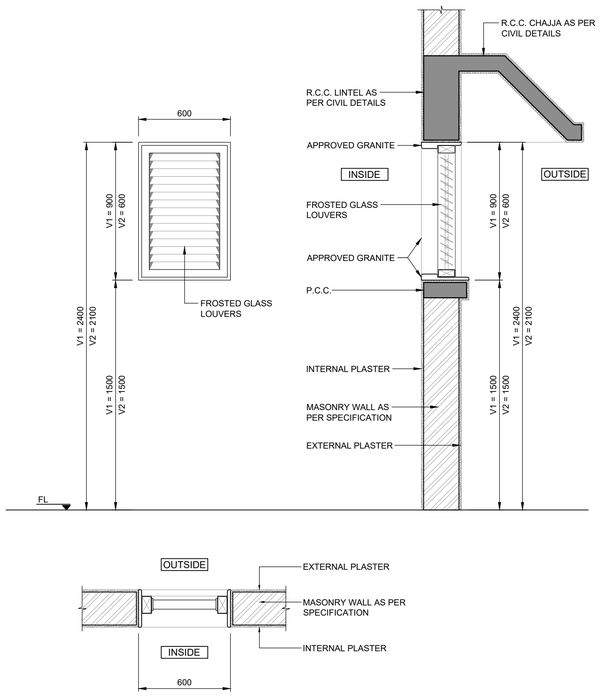
DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1005

DO NOT SCALE



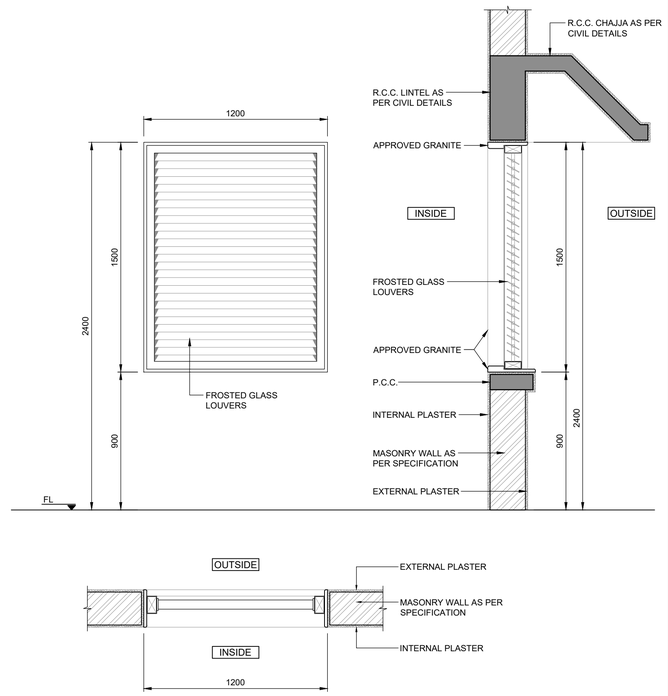
** NOTE : FG = FIXED GLASS

WINDOW NAME	W5
DESCRIPTION	FIXED CLEAR GLASS WINDOW
LEAF DIMENSIONS (W,H)	1500 x 1500
FINISH	ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION, 8MM THICK CLEAR GLASS
QUANTITY	-
FIRE RATED	---



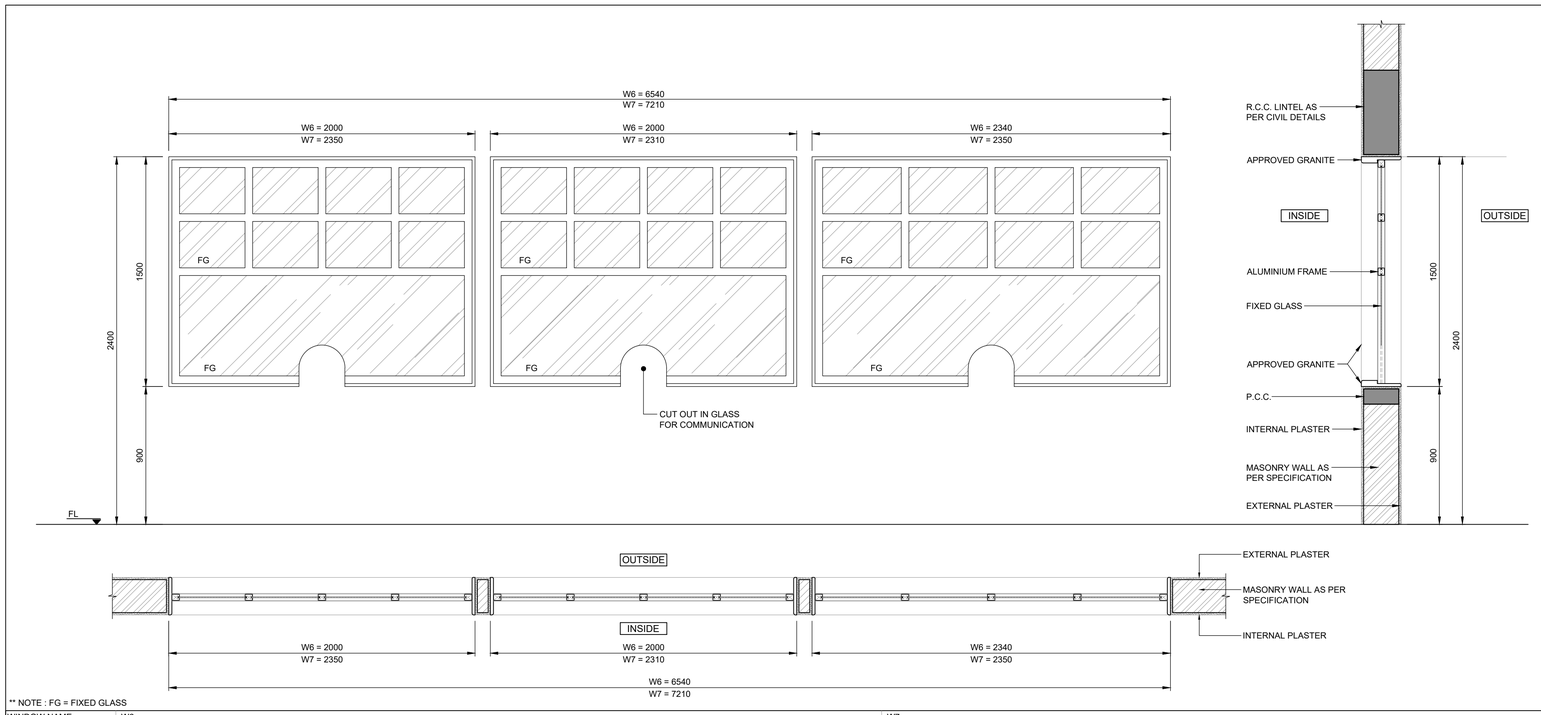
** NOTE : FG = FIXED GLASS

WINDOW NAME	V1 / V4
DESCRIPTION	ALUMINIUM LOUVERS WINDOW WITH 5MM. THICK FROSTED GLASS LOUVERS
LEAF DIMENSIONS (W,H)	V1 = 600 x 900 / V4 = 600 x 600
FINISH	POWDER COATED ALUMINIUM FRAME WITH FROSTED GLASS LOUVERS WINDOW
QUANTITY	-
FIRE RATED	---



** NOTE : FG = FIXED GLASS

WINDOW NAME	V2
DESCRIPTION	ALUMINIUM LOUVERS WINDOW WITH 5MM. THICK FROSTED GLASS LOUVERS
LEAF DIMENSIONS (W,H)	1200 x 1500
FINISH	POWDER COATED ALUMINIUM FRAME WITH FROSTED GLASS LOUVERS WINDOW
QUANTITY	-
FIRE RATED	---



** NOTE : FG = FIXED GLASS

WINDOW NAME	W6	W7
DESCRIPTION	FIXED CLEAR GLASS COMMUNICATION WINDOW	FIXED CLEAR GLASS COMMUNICATION WINDOW
LEAF DIMENSIONS (W,H)	6540 x 1500	7210 x 1500
FINISH	CLEAR GLASS WINDOW WITH ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION	CLEAR GLASS WINDOW WITH ALUMINIUM (16 GAUGE) EXTRUDED POWDER COATED SECTION
QUANTITY	-	-
FIRE RATED	---	---

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

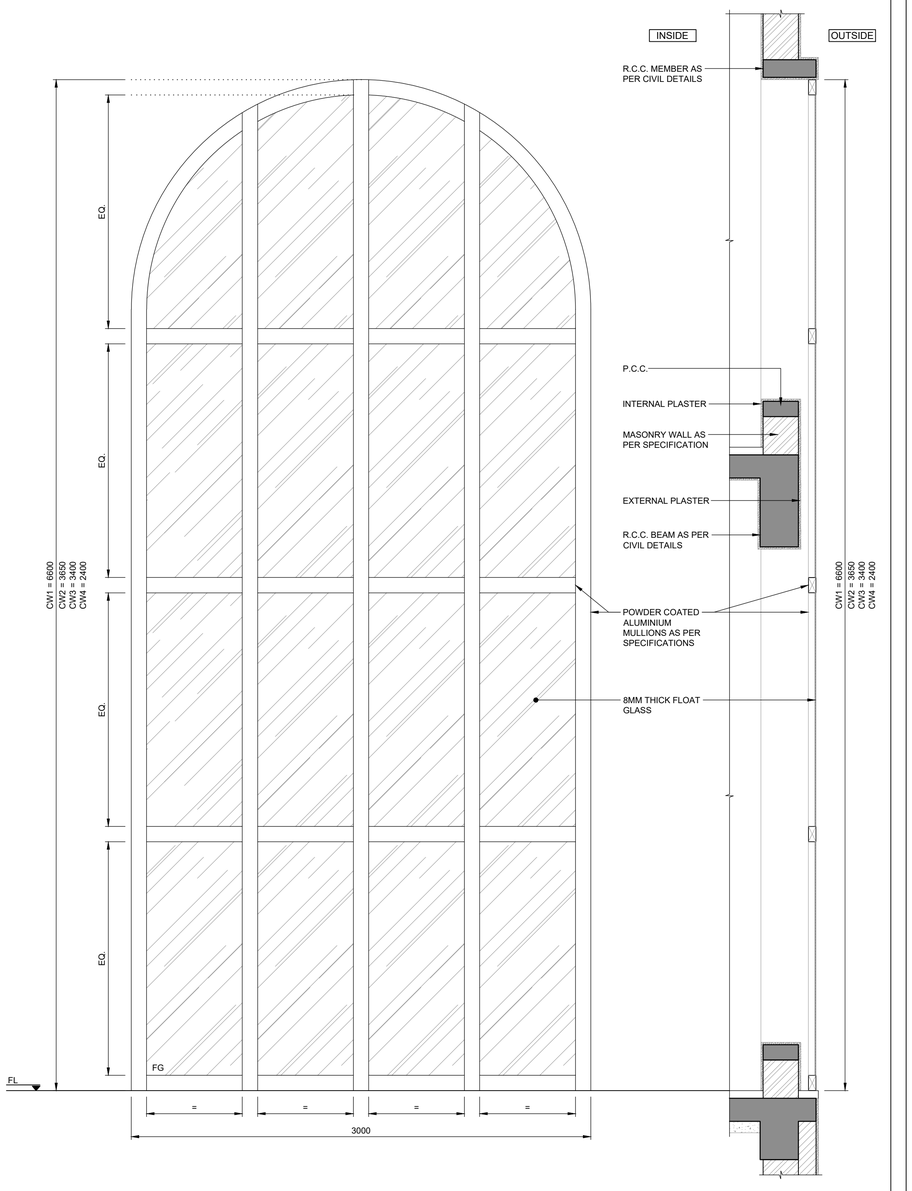
TITLE
WINDOW DETAILS & SCHEDULE SHEET-2

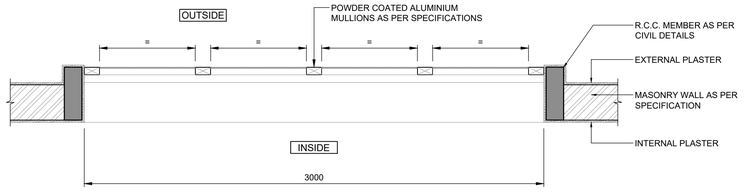
DRAWN ZR	CHECKED GPS	APPROVED BVD	
DATE FEB 2023	SCALE @A1 N.T.S.	REF.	
DRAWING No. DI1530-RHD-ZZ-ZZ-DR-A-1005		SUITABILITY A3	REVISION P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1006

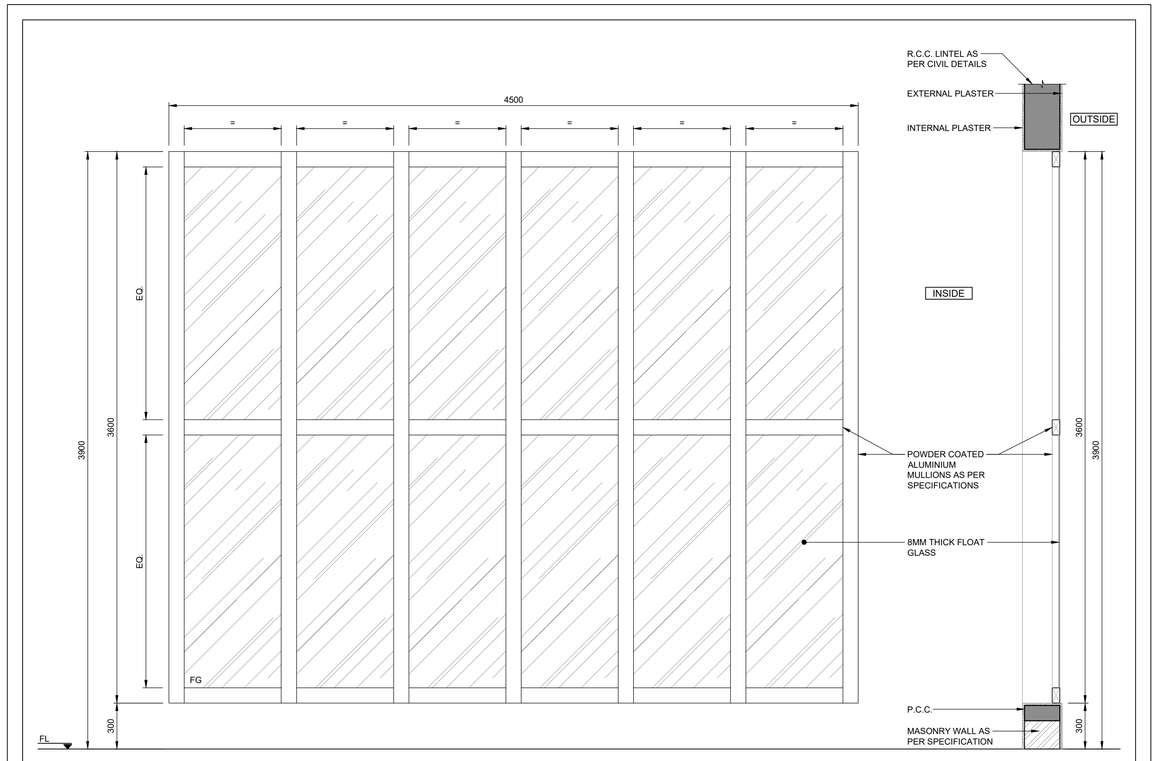
DO NOT SCALE

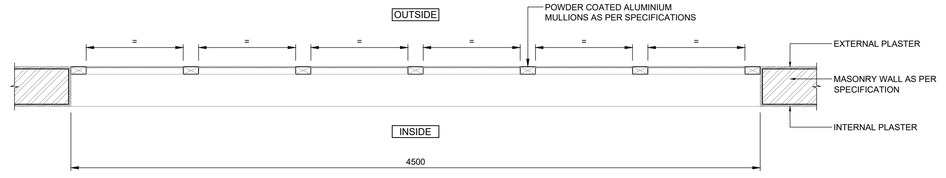




** NOTE : FG = FIXED GLASS

WINDOW NAME	CW1 / CW2 / CW3 / CW4
DESCRIPTION	ALUMINIUM GLASS WINDOW
LEAF DIMENSIONS (W,H)	CW1 = 3000 x 6600 / CW2 = 3000 x 3650 / CW3 = 3000 x 3400 / CW4 = 3000 x 2400
FINISH	ALUMINIUM EXTRUDED POWDER COATED SECTION, 8MM THICK FLOAT GLASS
QUANTITY	-
FIRE RATED	---





** NOTE : FG = FIXED GLASS

WINDOW NAME	CW5
DESCRIPTION	ALUMINIUM GLASS WINDOW
LEAF DIMENSIONS (W,H)	4500 x 3600
FINISH	ALUMINIUM EXTRUDED POWDER COATED SECTION, 8MM THICK FLOAT GLASS
QUANTITY	-
FIRE RATED	---

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
WINDOW DETAILS & SCHEDULE SHEET-3

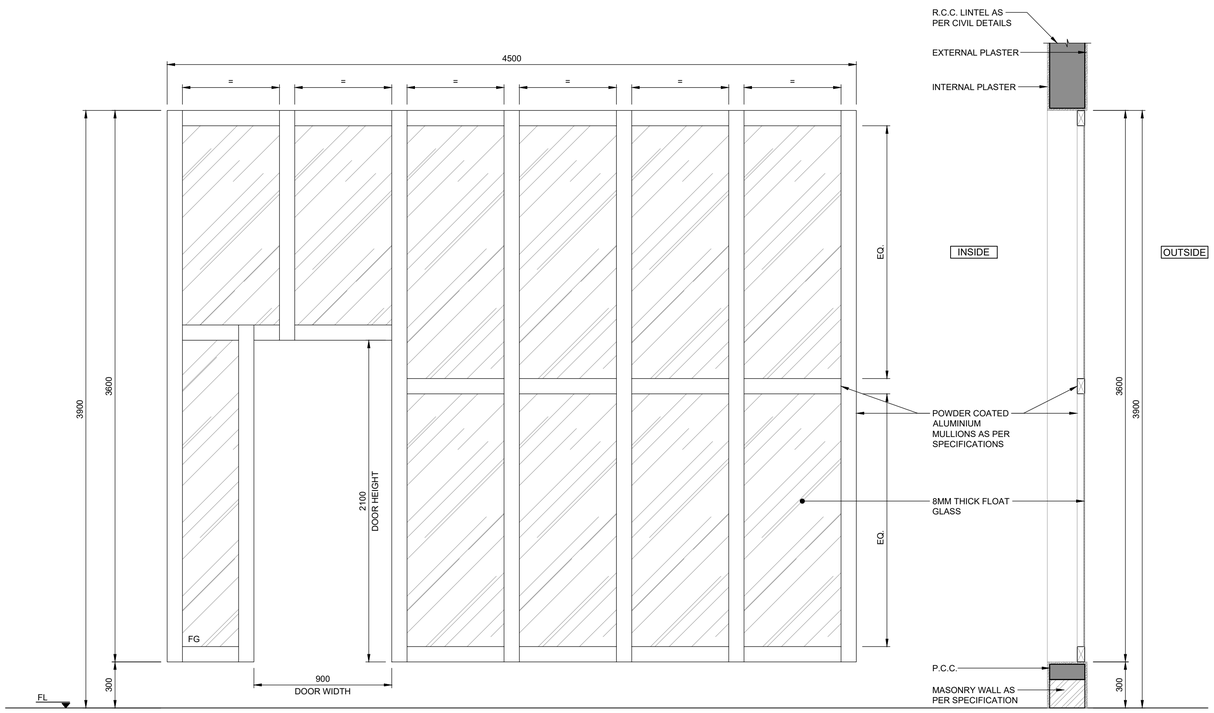
DRAWN	CHECKED	APPROVED
ZR	GPS	BVD
DATE: FEB 2023	SCALE @A1: N.T.S.	REF.

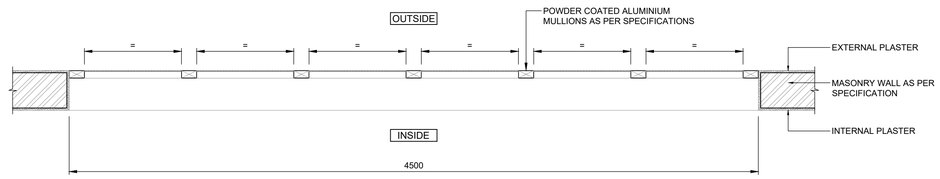
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-ZZ-DR-A-1006	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-ZZ-DR-A-1007

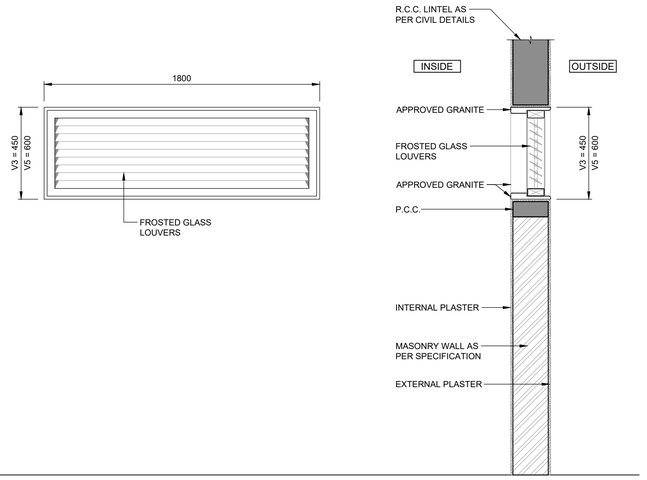
DO NOT SCALE

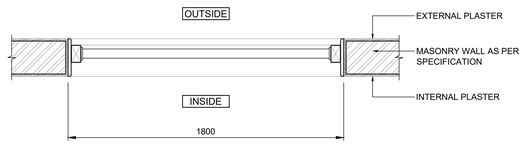




** NOTE : FG = FIXED GLASS

WINDOW NAME	CW5
DESCRIPTION	ALUMINIUM GLASS WINDOW
LEAF DIMENSIONS (W,H)	4500 x 3600
FINISH	ALUMINIUM EXTRUDED POWDER COATED SECTION, 8MM THICK FLOAT GLASS
QUANTITY	-
FIRE RATED	---





** NOTE : FG = FIXED GLASS

WINDOW NAME	V3 / V5
DESCRIPTION	ALUMINIUM LOUVERS WINDOW WITH 5MM. THICK FROSTED GLASS LOUVERS
LEAF DIMENSIONS (W,H)	V1 = 1800 x 450 / V5 = 1800 x 600
FINISH	POWDER COATED ALUMINIUM FRAME WITH FROSTED GLASS LOUVERS WINDOW
QUANTITY	-
FIRE RATED	---

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.

LEGEND

- 230 MM THICK BRICK MASONRY WALL
- 115 MM THICK BRICK MASONRY WALL
- 100 MM THICK DEAD PARTITION
- R.C.C.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ZR	GPS	BVD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

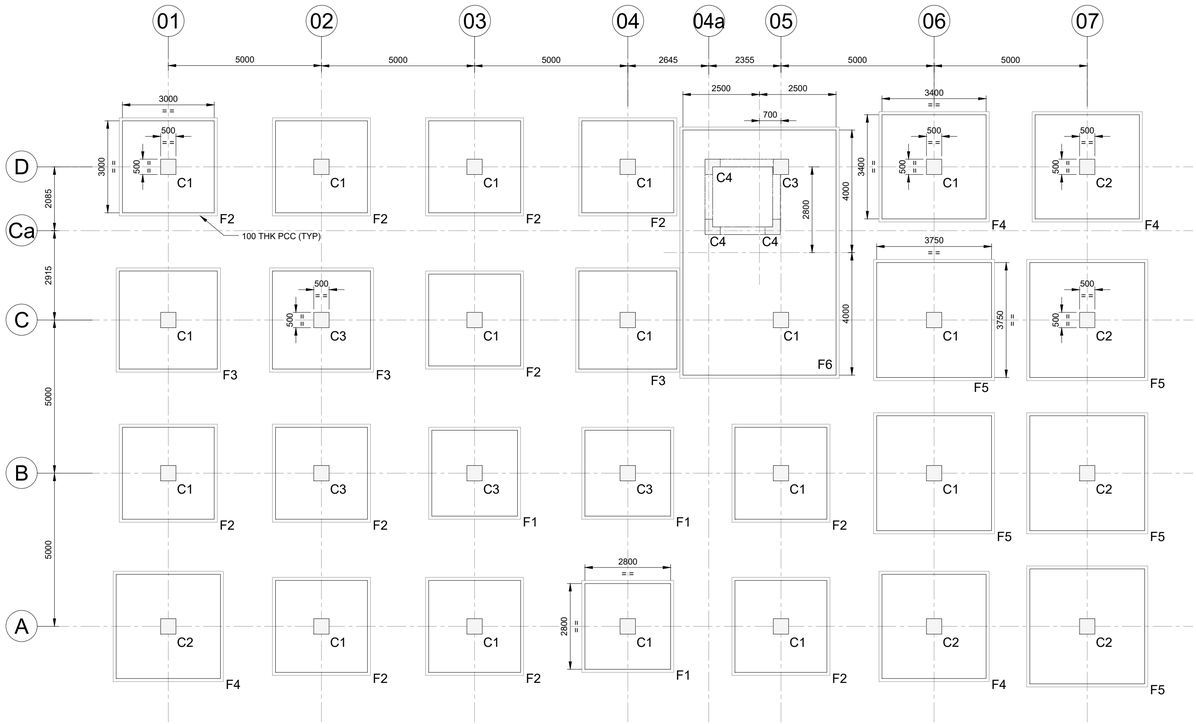
TITLE
WINDOW DETAILS & SCHEDULE SHEET-4

DRAWN ZR	CHECKED GPS	APPROVED BVD	
DATE FEB 2023	SCALE @A1 N.T.S.	REF.	
DRAWING No. DI1530-RHD-ZZ-ZZ-DR-A-1007		SUITABILITY A3	REVISION P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2135

DO NOT SCALE

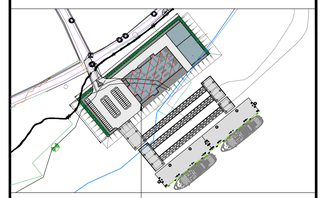


COLUMN & FOOTING LAYOUT

SCALE 1:100

SUMMARY TABLE OF COLUMN & FOOTING

MEMBERS	SECTION (mm)	DESCRIPTION
C1,C2,C3 & C4	500x500	COLUMN
F1	2800 x 2800 x 475 DEEP	FOOTING
F2	3000 x 3000 x 500 DEEP	FOOTING
F3	3200 x 3200 x 525 DEEP	FOOTING
F4	3400 x 3400 x 550 DEEP	FOOTING
F5	3750 x 3750 x 600 DEEP	FOOTING
F6	8000 x 5000 x 500 DEEP	COMBINED FOOTING



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hkdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
COLUMN & FOOTING LAYOUT

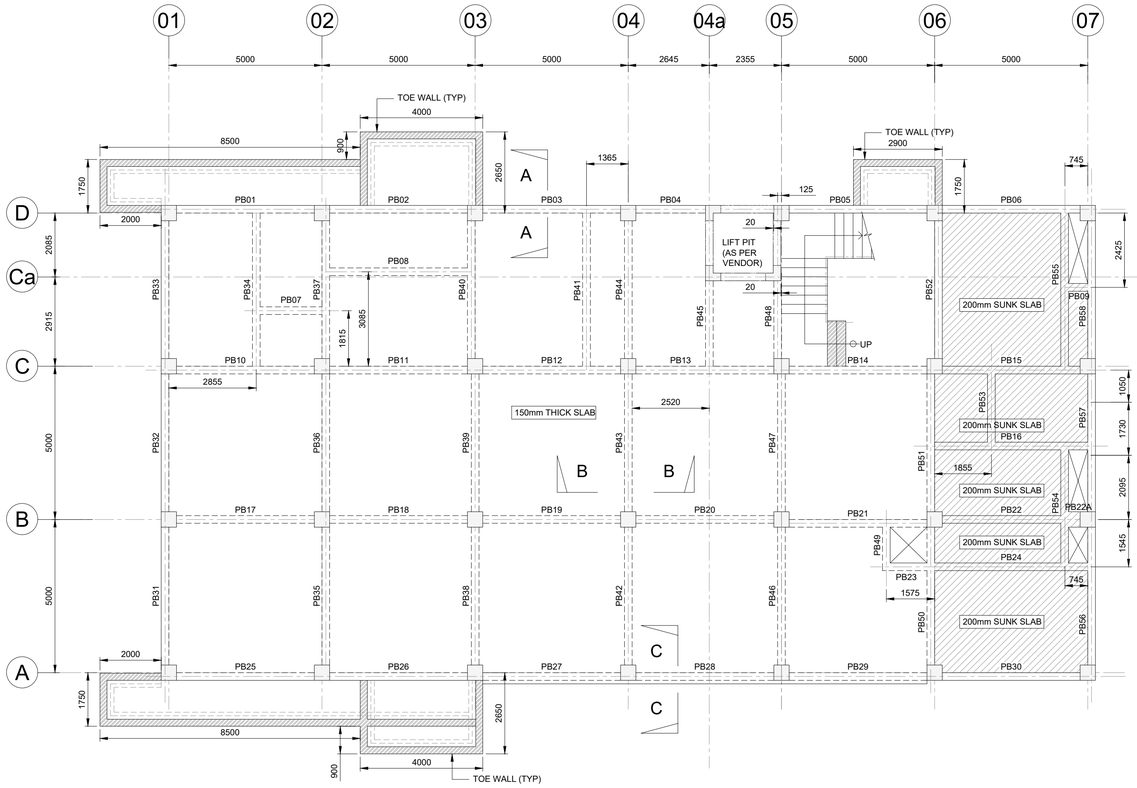
DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2135	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

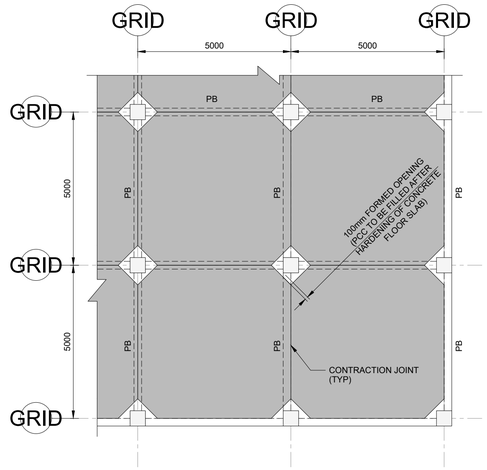
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2136

DO NOT SCALE



PLAN AT TOC +0.550m LEVEL

(PLINTH BEAM LAYOUT)
SCALE 1:100

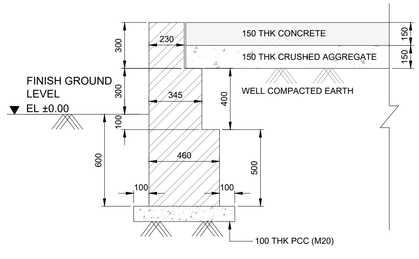


PART PLAN AT TOC +0.550m LEVEL

(PLAN SHOWING CONCRETE FLOOR) (M30)
SCALE 1:100

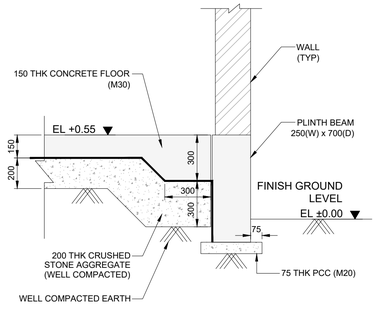
SUMMARY TABLE OF R.C MEMBERS (PLINTH BEAMS)

MEMBERS	SECTION B x D (mm)	T.O.B	DESCRIPTION
PB01	250 x 700	+0.550	PLINTH BEAM
PB02	250 x 700	+0.550	
PB03	250 x 700	+0.550	
PB04	250 x 700	+0.550	
PB05	250 x 700	+0.550	
PB06	250 x 700	+0.550	
PB07	250 x 450	+0.400	
PB08	250 x 450	+0.400	
PB09	250 x 450	+0.350	
PB10	250 x 450	+0.400	
PB11	250 x 450	+0.400	
PB12	250 x 450	+0.400	
PB13	250 x 450	+0.400	
PB14	250 x 450	**+0.400**	
PB15	250 x 450	+0.350	
PB16	250 x 450	+0.350	
PB17	250 x 450	+0.400	
PB18	250 x 450	+0.400	
PB19	250 x 450	+0.400	
PB20	250 x 450	+0.400	
PB21	250 x 450	+0.400	
PB22	250 x 450	+0.350	
PB22A	500 x 450	+0.350	
PB23	250 x 500	+0.400	
PB24	250 x 450	+0.350	
PB25	250 x 700	+0.550	
PB26	250 x 700	+0.550	
PB27	REFER SECTION C-C	+0.550	
PB28	REFER SECTION C-C	+0.550	
PB29	REFER SECTION C-C	+0.550	
PB30	250 x 700	+0.550	
PB31	250 x 700	+0.550	
PB32	250 x 700	+0.550	
PB33	250 x 700	+0.550	
PB34	250 x 450	+0.400	
PB35	250 x 450	+0.400	
PB36	250 x 450	+0.400	
PB37	250 x 450	+0.400	
PB38	250 x 450	+0.400	
PB39	250 x 450	+0.400	
PB40	250 x 450	+0.400	
PB41	250 x 450	+0.400	
PB42	250 x 450	+0.400	
PB43	250 x 450	+0.400	
PB44	250 x 450	+0.400	
PB45	250 x 450	+0.400	
PB46	250 x 450	+0.400	
PB47	250 x 450	+0.400	
PB48	250 x 450	+0.400	
PB49	250 x 450	+0.400	
PB50	250 x 650	+0.550	
PB51	250 x 650	+0.550	
PB52	250 x 650	+0.550	
PB53	250 x 450	+0.350	
PB54	250 x 450	+0.350	
PB55	250 x 450	+0.350	
PB56	250 x 700	+0.550	
PB57	250 x 700	+0.550	
PB58	250 x 700	+0.550	



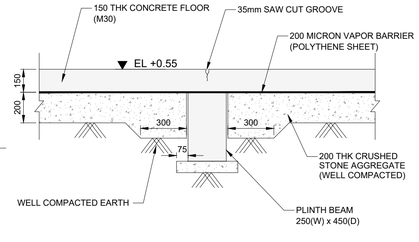
TYPICAL SECTION OF TOE WALL

SCALE 1:20



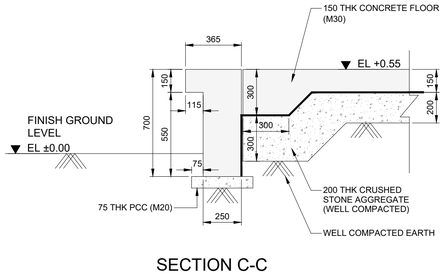
SECTION A-A

SCALE 1:20



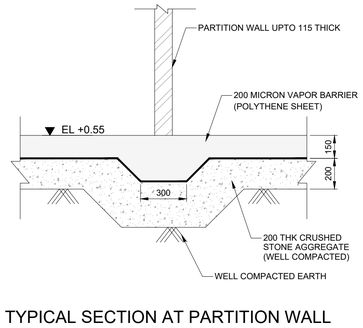
SECTION B-B

SCALE 1:20



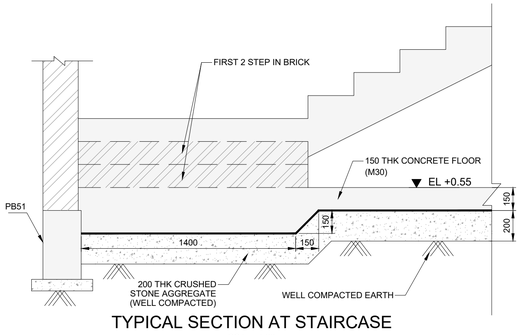
SECTION C-C

(PB30, PB31 & PB32)
SCALE 1:20



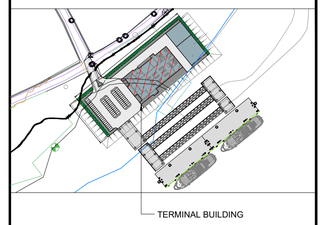
TYPICAL SECTION AT PARTITION WALL

SCALE 1:20



TYPICAL SECTION AT STAIRCASE

SCALE 1:20



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL
- 200mm SUNK SLAB

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA.
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

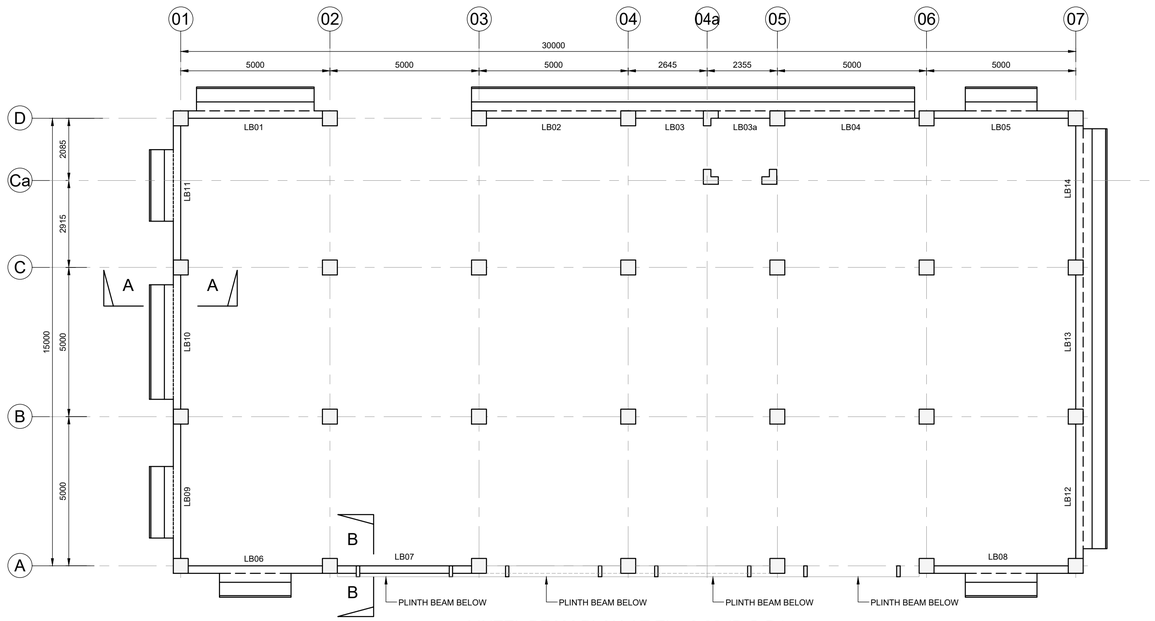
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
PLINTH BEAM BEAM LAYOUT

DRAWN RVA	CHECKED RK	APPROVED KK	
DATE FEB' 2023	SCALE @A1 AS SHOWN	REF.	
DRAWING No. DI1530-RHD-ZZ-NG-DR-S-2136		SUITABILITY A3	REVISION P01

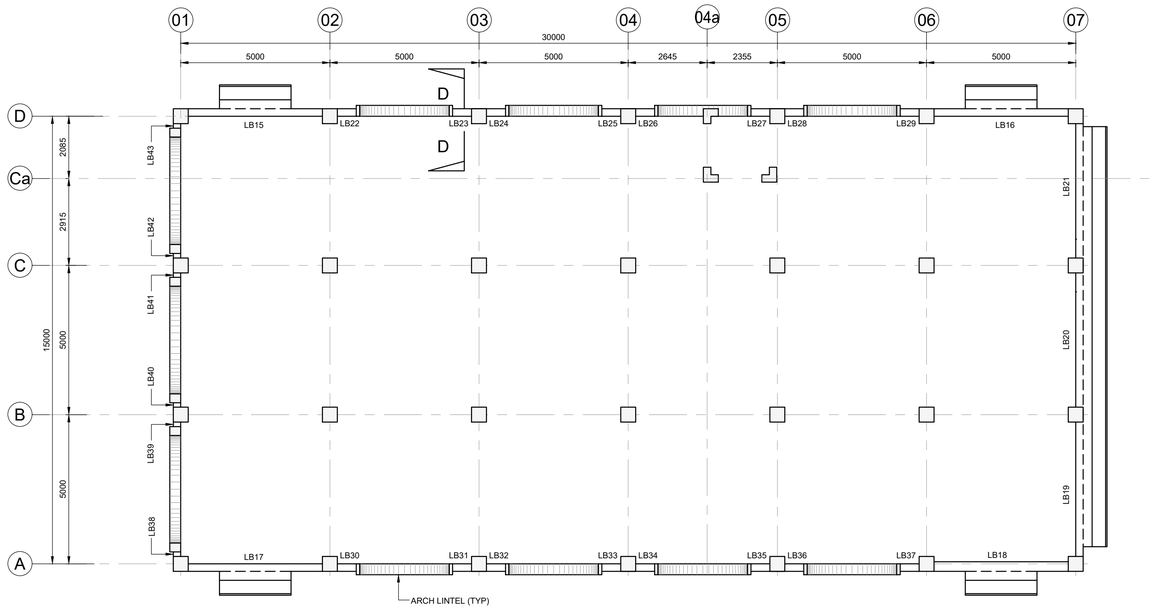
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2137

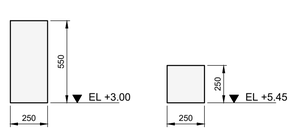
DO NOT SCALE



LINTEL BEAM PLAN AT EL +3.00 (B.O.B.)
SCALE 1:100

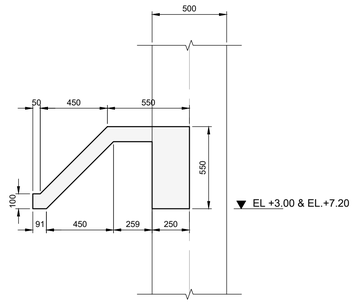


LINTEL BEAM PLAN AT EL +7.20 (B.O.B.)
SCALE 1:100

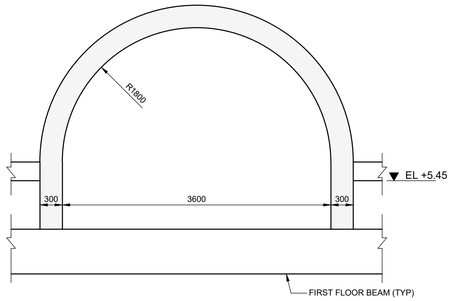


SECTION B-B
(LB07)
SCALE 1:20

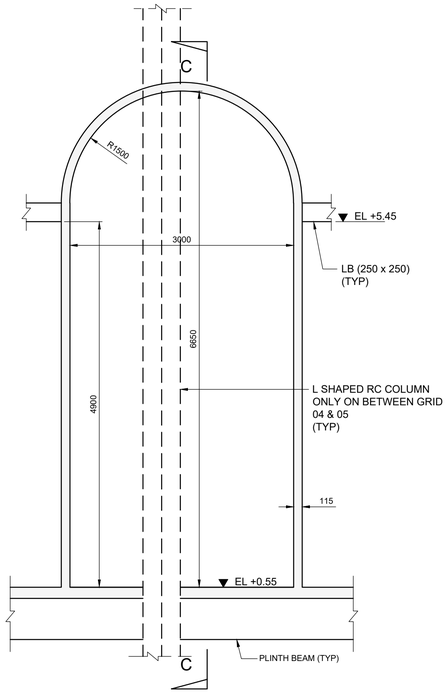
SECTION D-D
(LB22 TO LB43)
SCALE 1:20



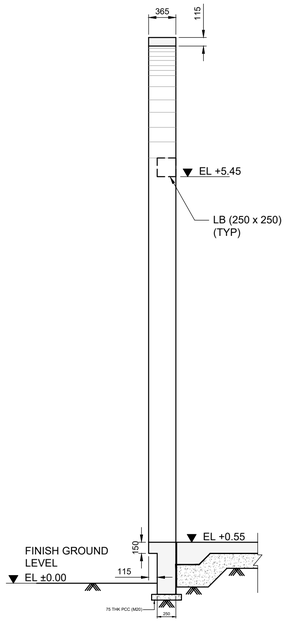
SECTION A-A
SCALE 1:20



TYPICAL DETAIL OF ARCH LINTEL
ON GRID - 01
SCALE 1:40



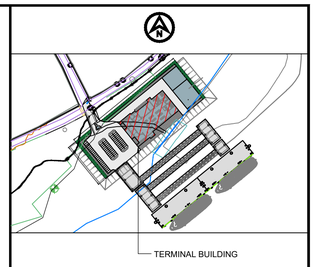
TYPICAL DETAIL OF ARCH LINTEL
SCALE 1:40



SECTION C-C
SCALE 1:40

SUMMARY TABLE OF R.C MEMBERS (LINTEL BEAMS)

MEMBERS	SECTION B x D (mm)	B.O.B	DESCRIPTION
LB01	REFER SECTION A-A	+3.000	LINTEL BEAM
LB02	REFER SECTION A-A	+3.000	
LB03	REFER SECTION A-A	+3.000	
LB03a	REFER SECTION A-A	+3.000	
LB04	REFER SECTION A-A	+3.000	
LB05	REFER SECTION A-A	+3.000	
LB06	REFER SECTION A-A	+3.000	
LB07	250 x 550	+3.000	
LB08	REFER SECTION A-A	+3.000	
LB09	REFER SECTION A-A	+3.000	
LB10	REFER SECTION A-A	+3.000	
LB11	REFER SECTION A-A	+3.000	
LB12	REFER SECTION A-A	+3.000	
LB13	REFER SECTION A-A	+3.000	
LB14	REFER SECTION A-A	+3.000	
LB15	REFER SECTION A-A	+7.200	
LB16	REFER SECTION A-A	+7.200	
LB17	REFER SECTION A-A	+7.200	
LB18	REFER SECTION A-A	+7.200	
LB19	REFER SECTION A-A	+7.200	
LB20	REFER SECTION A-A	+7.200	
LB21	REFER SECTION A-A	+7.200	
LB22	250 x 250	+5.450	
LB23	250 x 250	+5.450	
LB24	250 x 250	+5.450	
LB25	250 x 250	+5.450	
LB26	250 x 250	+5.450	
LB27	250 x 250	+5.450	
LB28	250 x 250	+5.450	
LB29	250 x 250	+5.450	
LB30	250 x 250	+5.450	
LB31	250 x 250	+5.450	
LB32	250 x 250	+5.450	
LB33	250 x 250	+5.450	
LB34	250 x 250	+5.450	
LB35	250 x 250	+5.450	
LB36	250 x 250	+5.450	
LB37	250 x 250	+5.450	
LB38	250 x 250	+5.450	
LB39	250 x 250	+5.450	
LB40	250 x 250	+5.450	
LB41	250 x 250	+5.450	
LB42	250 x 250	+5.450	
LB43	250 x 250	+5.450	



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

TYP - TYPICAL
BOB - BOTTOM OF BEAM

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703. INDIA.
Tel +91 (0) 22 61395000
Email info.India@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

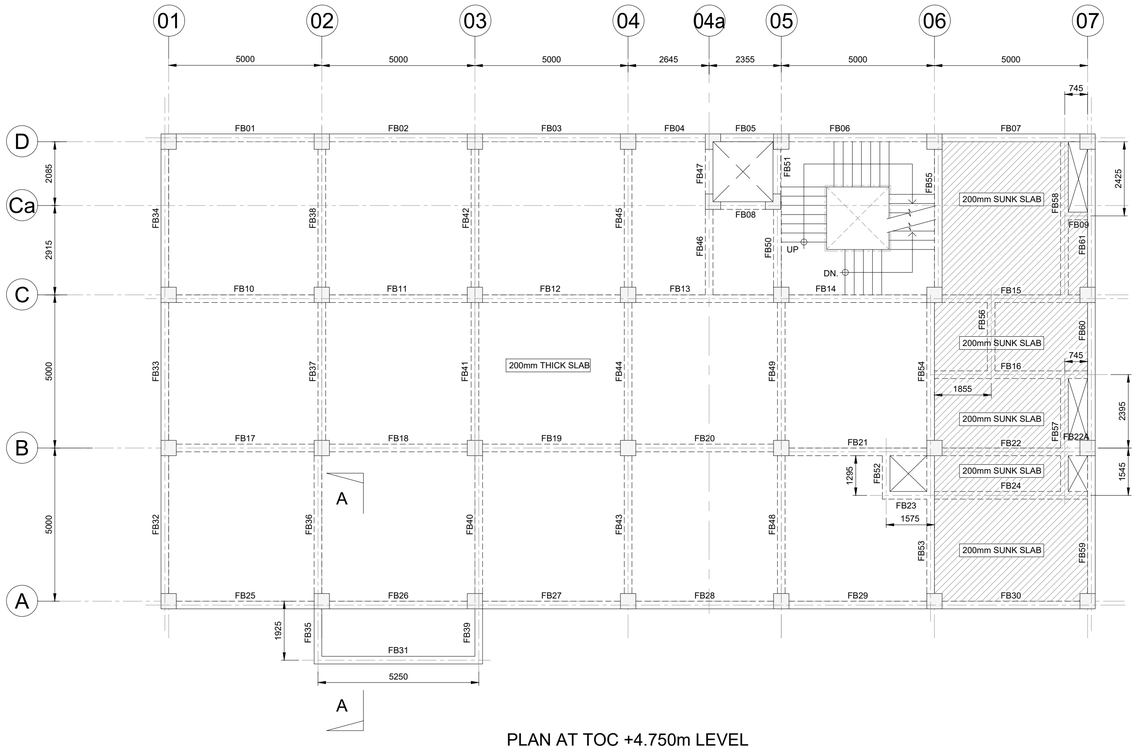
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LINTEL BEAM PLAN AT EL
+3.00 & EL. +7.20

DRAWN RVA	CHECKED GPS	APPROVED AK	
DATE FEB' 2023	SCALE @A1 AS SHOWN	REF.	
DRAWING No. DI1530-RHD-ZZ-NG-DR-S-2137		SUITABILITY A3	REVISION P01

© HaskoningDHV Consulting Pvt. Ltd.

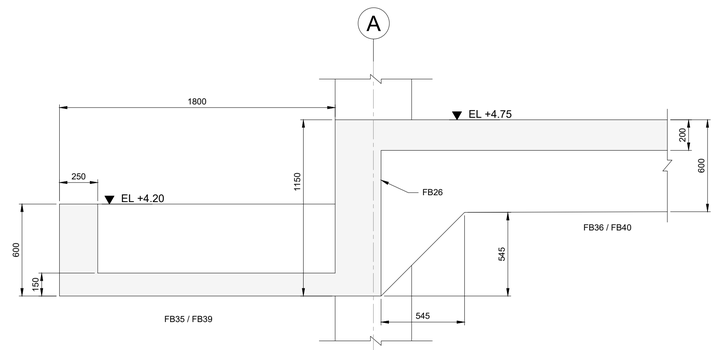
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2138

DO NOT SCALE



PLAN AT TOC +4.750m LEVEL

(FIRST FLOOR BEAM LAYOUT)
SCALE 1:100

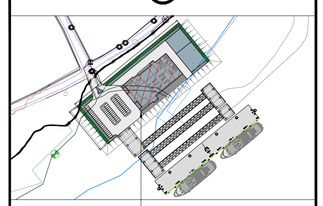


SECTION A-A

(FB35, FB36 & FB39, FB40)
SCALE 1:20

SUMMARY TABLE OF R.C MEMBERS (PLINTH BEAMS)

MEMBERS	SECTION B x D (mm)	T.O.B	DESCRIPTION
FB01	250 x 600	+4.750	FIRST FLOOR BEAM
FB02	250 x 600	+4.750	
FB03	250 x 600	+4.750	
FB04	250 x 600	+4.750	
FB05	250 x 600	+4.750	
FB06	250 x 600	+4.750	
FB07	250 x 600	+4.550	
FB08	250 x 600	+4.750	
FB09	250 x 600	+4.550	
FB10	250 x 600	+4.750	
FB11	250 x 600	+4.750	
FB12	250 x 600	+4.750	
FB13	250 x 600	+4.750	
FB14	250 x 600	+4.750	
FB15	250 x 600	+4.550	
FB16	250 x 600	+4.550	
FB17	250 x 600	+4.750	
FB18	250 x 600	+4.750	
FB19	250 x 600	+4.750	
FB20	250 x 600	+4.750	
FB21	250 x 600	+4.750	
FB22	250 x 600	+4.550	
FB22A	500 x 600	+4.550	
FB23	250 x 800	+4.750	
FB24	250 x 600	+4.550	
FB25	250 x 600	+4.750	
FB26	250 x 1150	+4.750	
FB27	250 x 600	+4.750	
FB28	250 x 600	+4.750	
FB29	250 x 600	+4.750	
FB30	250 x 600	+4.550	
FB31	250 x 600	+4.200	
FB32	250 x 600	+4.750	
FB33	250 x 600	+4.750	
FB34	250 x 600	+4.750	
FB35	REFER SECTION A-A	+4.200	
FB36	REFER SECTION A-A	+4.750	
FB37	250 x 600	+4.750	
FB38	250 x 600	+4.750	
FB39	REFER SECTION A-A	+4.200	
FB40	REFER SECTION A-A	+4.750	
FB41	250 x 600	+4.750	
FB42	250 x 600	+4.750	
FB43	250 x 600	+4.750	
FB44	250 x 600	+4.750	
FB45	250 x 600	+4.750	
FB46	250 x 600	+4.750	
FB47	250 x 600	+4.750	
FB48	250 x 600	+4.750	
FB49	250 x 600	+4.750	
FB50	250 x 600	+4.750	
FB51	250 x 600	+4.750	
FB52	250 x 600	+4.750	
FB53	250 x 800	+4.750	
FB54	250 x 800	+4.750	
FB55	250 x 600	+4.750	
FB56	250 x 600	+4.550	
FB57	250 x 600	+4.550	
FB58	250 x 600	+4.550	
FB59	250 x 600	+4.550	
FB60	250 x 600	+4.550	
FB61	250 x 600	+4.550	



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL
- 200mm SUNK SLAB

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 6th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
FIRST FLOOR BEAM LAYOUT

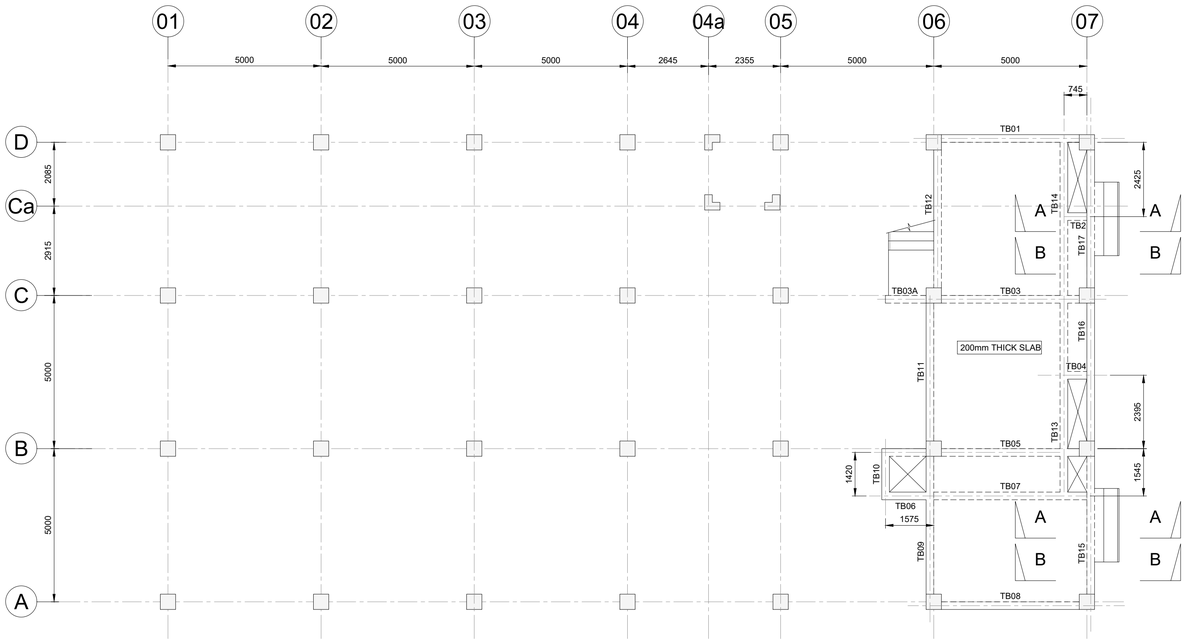
DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2138	A3	P01

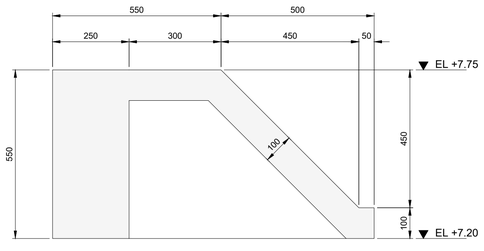
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2139

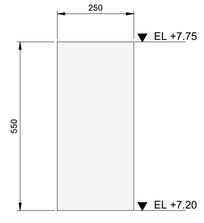
DO NOT SCALE



PLAN AT TOC +7.650m LEVEL
(TECHNICAL FLOOR BEAM LAYOUT)
SCALE 1:100



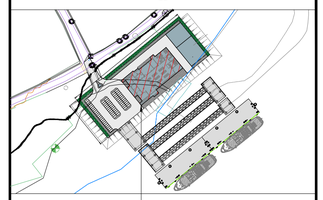
SECTION A-A
(TB15 & TB17)
SCALE 1:10



SECTION B-B
(TB15 & TB17)
SCALE 1:10

SUMMARY TABLE OF R.C MEMBERS (TECHNICAL FLOOR BEAMS)

MEMBERS	SECTION B x D (mm)	T.O.B	DESCRIPTION
TB01	250 x 450	+7.650	TECHNICAL FLOOR BEAM
TB02	250 x 450	+7.650	
TB03	250 x 500	+7.650	
TB03A	250 x 500	+7.650	
TB04	250 x 450	+7.650	
TB05	250 x 450	+7.650	
TB06	250 x 450	+7.650	
TB07	250 x 450	+7.650	
TB08	250 x 450	+7.650	
TB09	250 x 450	+7.650	
TB10	250 x 450	+7.650	
TB11	250 x 450	+7.650	
TB12	250 x 450	+7.650	
TB13	250 x 450	+7.650	
TB14	250 x 450	+7.650	
TB15	REFER SECTION A & B	+7.750	
TB16	250 x 450	+7.650	
TB17	REFER SECTION A & B	+7.750	



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
TECHNICAL FLOOR BEAM LAYOUT

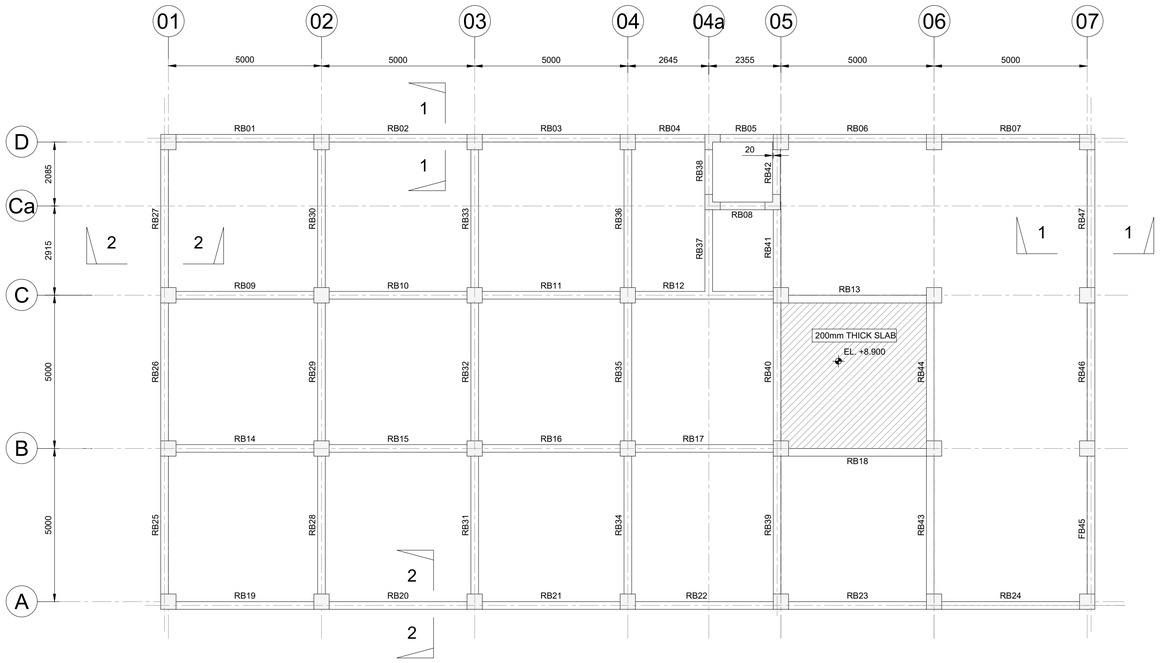
DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2139	A3	P01

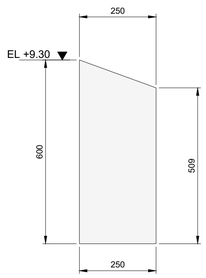
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2140

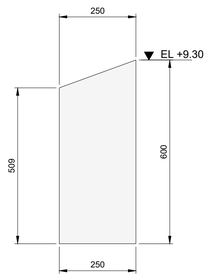
DO NOT SCALE



PLAN AT TOC +9.200m LEVEL
(ROOF BEAM LAYOUT)
SCALE 1:100



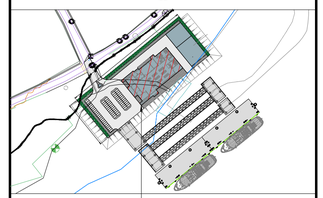
SECTION 1-1
SCALE 1:20



SECTION 2-2
SCALE 1:20

SUMMARY TABLE OF R.C MEMBERS (ROOF BEAMS)

MEMBERS	SECTION B x D (mm)	T.O.B	DESCRIPTION
RB01	REFER SECTION 1-1	REFER SECTION 1-1	ROOF BEAM
RB02	REFER SECTION 1-1	REFER SECTION 1-1	
RB03	REFER SECTION 1-1	REFER SECTION 1-1	
RB04	REFER SECTION 1-1	REFER SECTION 1-1	
RB05	REFER SECTION 1-1	REFER SECTION 1-1	
RB06	REFER SECTION 1-1	REFER SECTION 1-1	
RB07	REFER SECTION 1-1	REFER SECTION 1-1	
RB08	250 x 500	+9.200	
RB09	250 x 500	+9.200	
RB10	250 x 500	+9.200	
RB11	250 x 500	+9.200	
RB12	250 x 500	+9.200	
RB13	250 x 500	+9.200	
RB14	250 x 500	+9.200	
RB15	250 x 500	+9.200	
RB16	250 x 500	+9.200	
RB17	250 x 500	+9.200	
RB18	250 x 500	+9.200	
RB19	REFER SECTION 2-2	REFER SECTION 2-2	
RB20	REFER SECTION 2-2	REFER SECTION 2-2	
RB21	REFER SECTION 2-2	REFER SECTION 2-2	
RB22	REFER SECTION 2-2	REFER SECTION 2-2	
RB23	REFER SECTION 2-2	REFER SECTION 2-2	
RB24	REFER SECTION 2-2	REFER SECTION 2-2	
RB25	REFER SECTION 2-2	REFER SECTION 2-2	
RB26	REFER SECTION 2-2	REFER SECTION 2-2	
RB27	REFER SECTION 2-2	REFER SECTION 2-2	
RB28	250 x 500	+9.200	
RB29	250 x 500	+9.200	
RB30	250 x 500	+9.200	
RB31	250 x 500	+9.200	
RB32	250 x 500	+9.200	
RB33	250 x 500	+9.200	
RB34	250 x 500	+9.200	
RB35	250 x 500	+9.200	
RB36	250 x 500	+9.200	
RB37	250 x 500	+9.200	
RB38	250 x 500	+9.200	
RB39	250 x 500	+9.200	
RB40	250 x 500	+9.200	
RB41	250 x 500	+9.200	
RB42	250 x 500	+9.200	
RB43	250 x 500	+9.200	
RB44	250 x 500	+9.200	
RB45	REFER SECTION 1-1	REFER SECTION 1-1	
RB46	REFER SECTION 1-1	REFER SECTION 1-1	
RB47	REFER SECTION 1-1	REFER SECTION 1-1	



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
ROOF BEAM LAYOUT

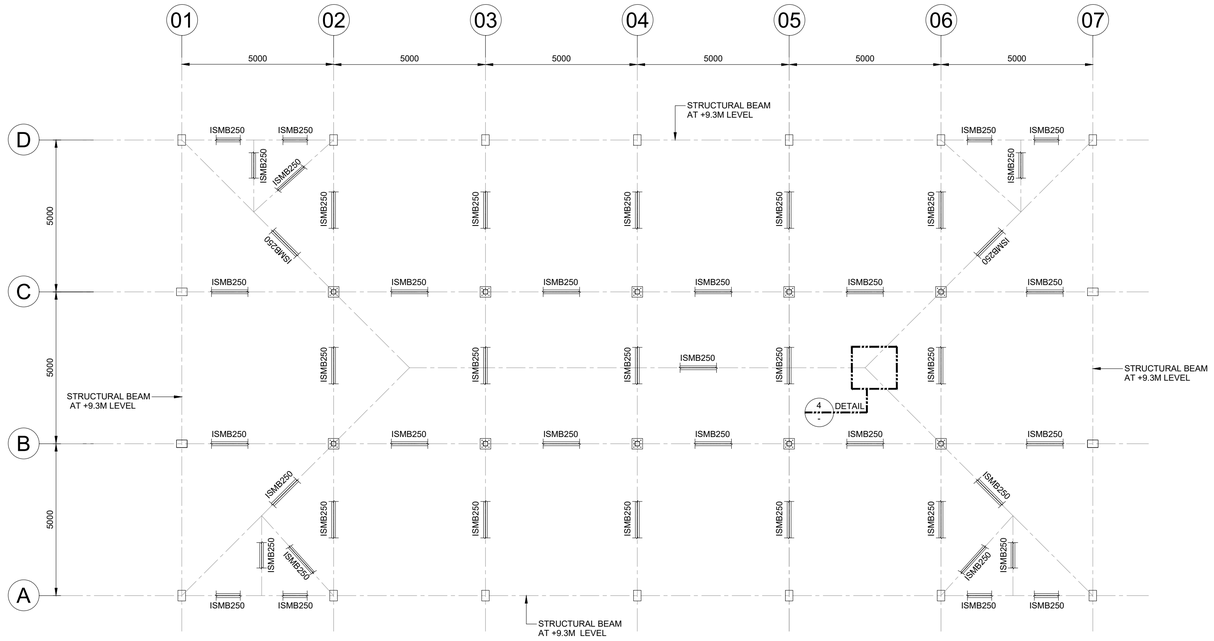
DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2140	A3	P01

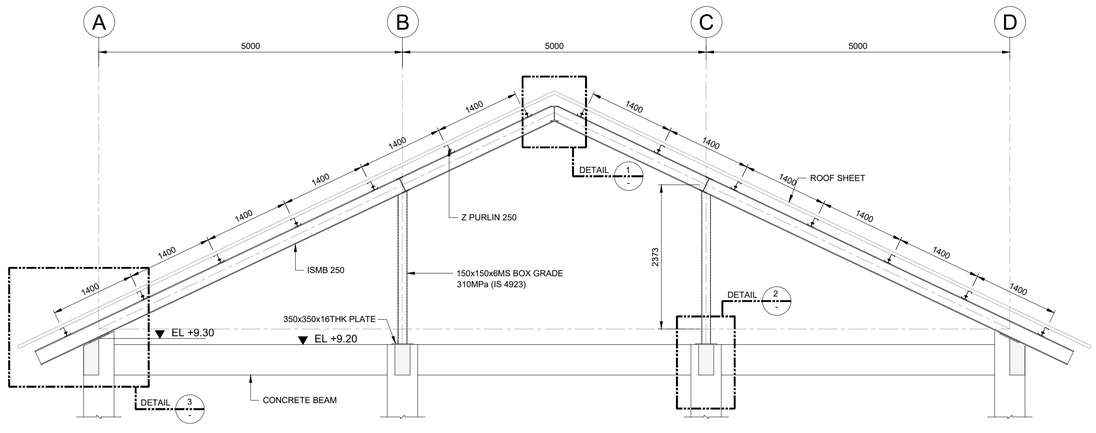
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2141

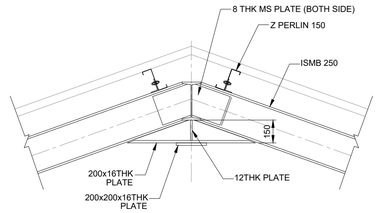
DO NOT SCALE



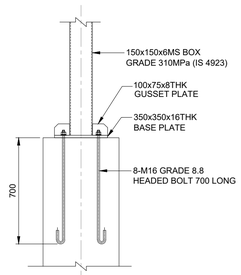
PLAN AT TOC +9.30m LEVEL
(ROOF FLOOR BEAM LAYOUT)
SCALE 1:100



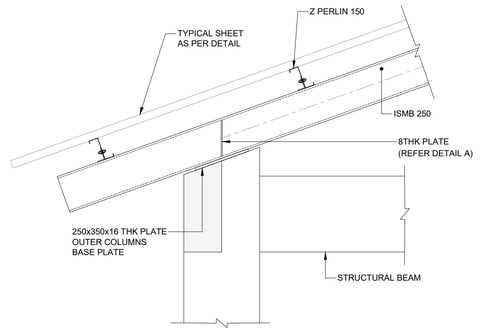
TYPICAL ELEVATION ON GRID 3, 4 & 5
SCALE 1:50



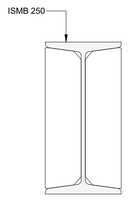
DETAIL 1
SCALE 1:20



DETAIL 2
SCALE 1:20



DETAIL 3
SCALE 1:20



DETAIL A
SCALE 1:5

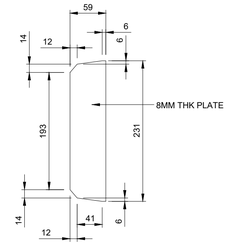
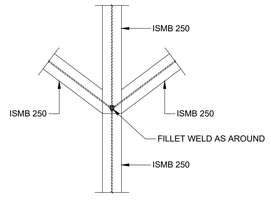


PLATE DETAIL
SCALE 1:5



DETAIL 4
SCALE 1:20

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
3. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE FE 500D (CORROSION RESISTANT)
4. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.
5. ALL STRUCTURAL TUBES SHALL BE AS PER IS 4923
6. MINIMUM GRADE OF STRUCTURAL STEEL SHALL BE FY310MPA
7. MINIMUM WELD THICKNESS SHALL BE 6MM
8. GRADE OF ANCHOR BOLT SHALL BE GRADE 8.8
9. ALL WELDING SHALL BE CERTIFIED BY INDEPENDENT AGENCY USING DP, ULTRASONIC TEST .

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	ABS	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
STEEL ROOF PLAN & DETAILS

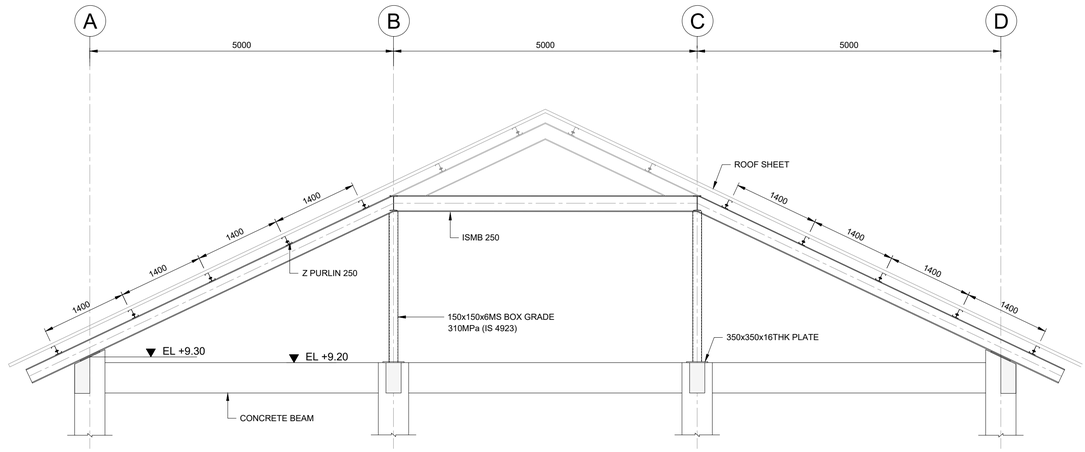
DRAWN	CHECKED	APPROVED
ABS	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2141	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

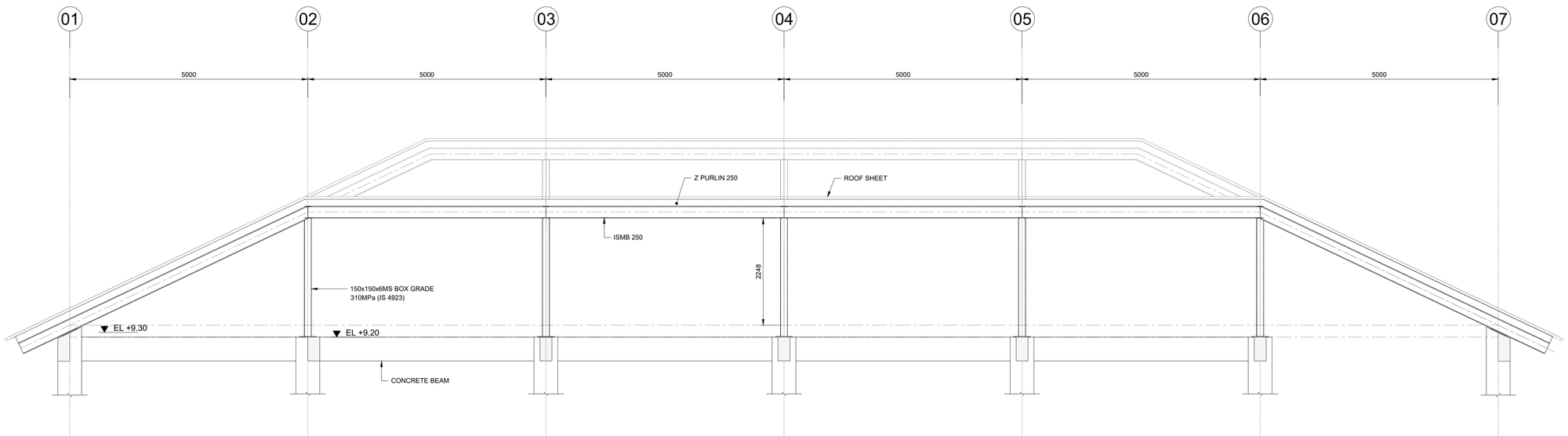
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2142

DO NOT SCALE



TYPICAL ELEVATION ON GRID 2 & GRID 6

SCALE 1:50



TYPICAL ELEVATION ON GRID B & GRID C

SCALE 1:50

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
3. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE FE 500D (CORROSION RESISTANT)
4. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.
5. ALL STRUCTURAL TUBES SHALL BE AS PER IS 4923
6. MINIMUM GRADE OF STRUCTURAL STEEL SHALL BE FY310MPA.
7. MINIMUM WELD THICKNESS SHALL BE 6MM
8. GRADE OF ANCHOR BOLT SHALL BE GRADE 8.8
9. ALL WELDING SHALL BE CERTIFIED BY INDEPENDENT AGENCY USING DP, ULTRASONIC TEST .

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

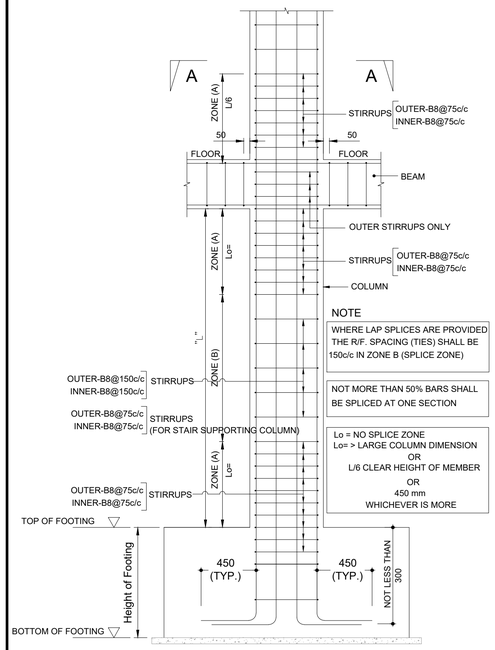
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
STEEL ROOF SECTONS

DRAWN YSK	CHECKED RK	APPROVED AK	
DATE FEB' 2023	SCALE @A1 AS SHOWN	REF.	
DRAWING No. DI1530-RHD-ZZ-NG-DR-S-2142		SUITABILITY A3	REVISION P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2143

DO NOT SCALE



NOTE

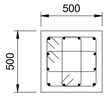
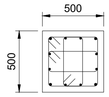
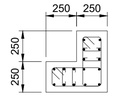
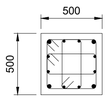
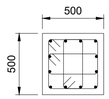
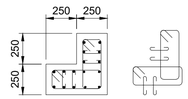
WHERE LAP SPLICES ARE PROVIDED THE R/F. SPACING (TIES) SHALL BE 150c/c IN ZONE B (SPLICE ZONE)

NOT MORE THAN 50% BARS SHALL BE SPLICED AT ONE SECTION

Lo = NO SPLICE ZONE
Lo= > LARGE COLUMN DIMENSION
OR
L/6 CLEAR HEIGHT OF MEMBER
OR
450 mm
WHICHEVER IS MORE

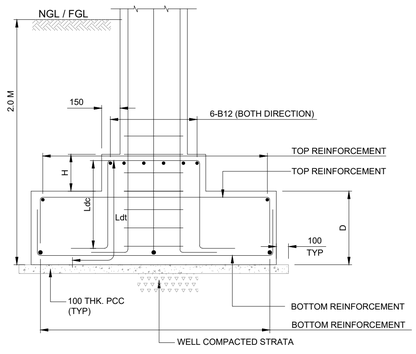
TYPICAL RC COLUMN DETAIL
SCALE 1:25

SUMMARY TABLE OF COLUMN DETAILS

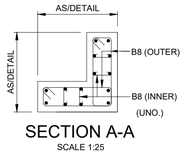
LEVEL \ COLUMN NAME	(TYPE 1) C1		(TYPE 2) C2		(TYPE 3) C3		(TYPE 4) C4	
M40 : Fe500 : Cover = 40mm Stirrups (FIRST FLOOR TO ROOF FLOOR) +4.80 TO +9.30								
	Main bar:	4-B20 + 8-B16	Main bar:	4-B20 + 8-B16	Main bar:	4-B20 + 8-B16	Main bar:	16-B20
	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation
		Inner B8 As per elevation		Inner B8 As per elevation		Inner B8 As per elevation		Inner B8 As per elevation
M40 : Fe500 : Cover = 40mm Stirrups (FOUNDATION TO FIRST FLOOR) <+4.80								
	Main bar:	4-B20 + 8-B25	Main bar:	4-B32 + 8-B20	Main bar:	12-B20	Main bar:	4-B25 +12-B20
	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation	Ties:	Outer B8 As per elevation
		Inner B8 As per elevation		Inner B8 As per elevation		Inner B8 As per elevation		Inner B8 As per elevation

NOTE:- COLUMN REINFORCEMENT SHOWN IN THE DRAWING IS BASED ON DESIGN REQUIREMENT.
CONTRACTOR NEEDS TO WORKOUT BBS DETAILING IN COMPLIANCE TO IS-13920 (AS SHOWN IN TYP ELEVATION).

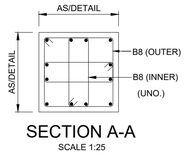
CONTRACTOR MUST ENSURE THAT THE DUCTILE DETAILING OF STEEL REINFORCEMENT SHALL BE CARRIED OUT AS PER IS:13920-2016



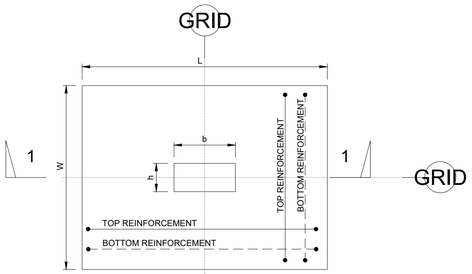
SECTION 1-1
SCALE 1:25



SECTION A-A
SCALE 1:25



SECTION A-A
SCALE 1:25



TYPICAL FOOTING PLAN
SCALE 1:25

Ld (or Ldt) (DEVELOPMENT LENGTH IN TENSION) IN mm FOR M-40 GRADE CONCRETE = 35 x DIA OF DEFORMED REBAR

DEVELOPMENT LENGTH

Ldc (DEVELOPMENT LENGTH IN COMPRESSION) IN mm
B32 = 960mm
B25 = 750mm
B20 = 600mm
B16 = 480mm
NOTE: 'H' min WILL BE BASED ON COLUMN REBAR'S Ldc

SUMMARY TABLE FOR COLUMNS

TYPE	SIZE (mm)	DESCRIPTION	LOCATION AT GRID
C1	500x500	COLUMN	D01,D02,D03,D04,D05,D06,C01,C03,C04,C05,C06,B01,B05,B06,A02,A03,A04,A05
C2	500x500	COLUMN	D07,C07,B07,A01,A06,A07
C3	500x500	COLUMN	D05,C02,B02,B03,B04
C4	500x500	COLUMN AS SHOWN	D04a,Ca04a,Ca05

SUMMARY TABLE OF REINFORCEMENT DETAILS OF FOOTINGS

FOOTING TYPE	SIZE (mm) (L x W x D)	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	LOCATION AT GRID
F1	2800 x 2800 x 475	B16 @ 125 C/C	B10 @ 200 C/C	A04,B03,B04
F2	3000 x 3000 x 500	B16 @ 125 C/C	B10 @ 200 C/C	A02,A03,A05,B01,B02,B05,C03,D01,D02,D03,D04
F3	3200 x 3200 x 525	B16 @ 100 C/C	B12 @ 200 C/C	C01,C02,C04
F4	3400 x 3400 x 550	B16 @ 100 C/C	B12 @ 200 C/C	A01,A06,D06,D07
F5	3750 x 3750 x 600	B16 @ 100 C/C	B12 @ 200 C/C	A07,B06,B07,C06,C07
F6	8000 x 5000 x 500	B16 @ 100 C/C	B16 @ 100 C/C	C-D & 04a-05

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 ACCORDANCE WITH IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.
6. MIN COVER TO -
   COLUMN = 40mm
   BEAM = 50mm
   SLAB = 30mm
   FOUNDATION = 75mm
7. ALL STRUCTURAL ELEMENT (FOUNDATION, SLAB ON GRADE ETC) SHALL BE FOUNDED ON FIRM GROUND.
8. ANY EXCAVATED EARTH BELOW FOUNDATION SHALL BE REPLACED WITH LEAN CONCRETE.
9. SBC CONSIDERED AT FOUNDATION LEVEL IS 15 TON / SQM.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
COLUMN & FOOTING
REINFORCEMENT DETAILS

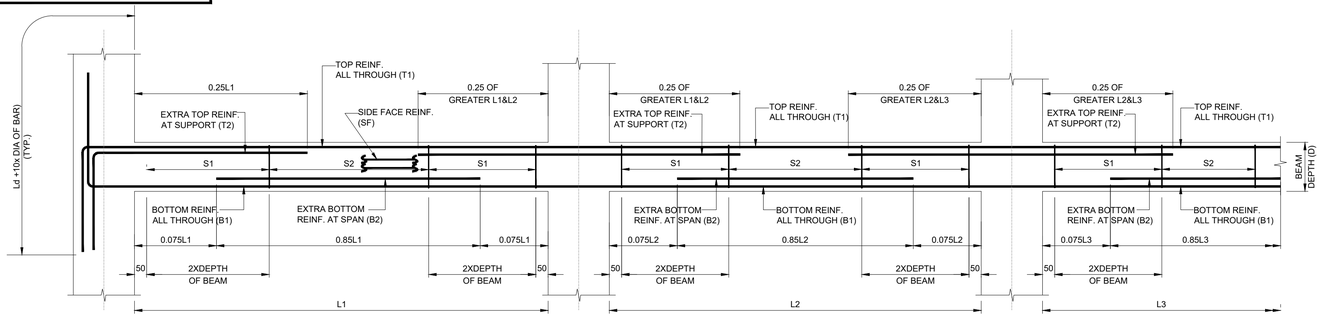
DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2143	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

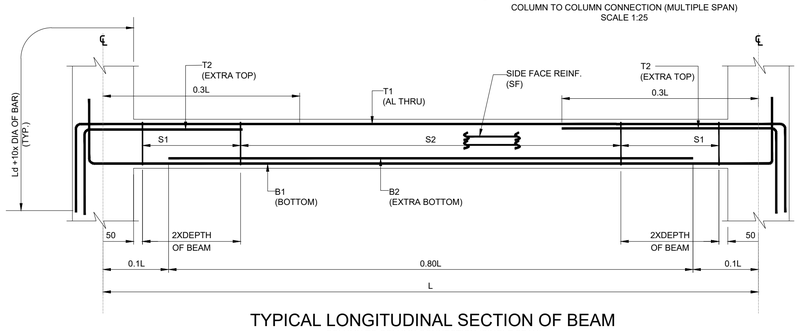
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2144

DO NOT SCALE



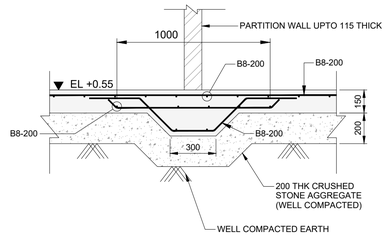
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (MULTIPLE SPAN)
SCALE 1:25



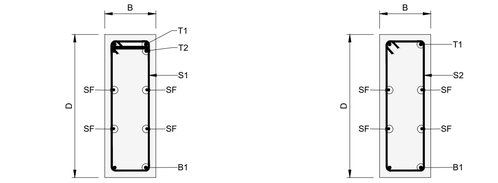
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (SINGLE SPAN)
SCALE 1:25



TYPICAL SECTION AT PARTITION WALL

SCALE 1:20

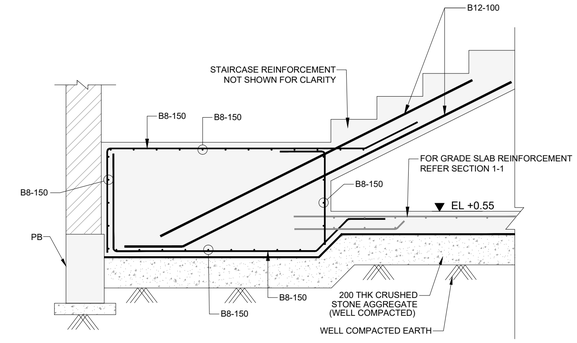


TYPICAL CROSS SECTION OF PLINTH BEAM AT SUPPORT

SCALE 1:15

TYPICAL CROSS SECTION OF PLINTH BEAM AT SPAN

SCALE 1:15

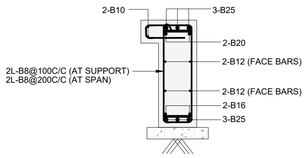


TYPICAL SECTION AT STAIRCASE

SCALE 1:20

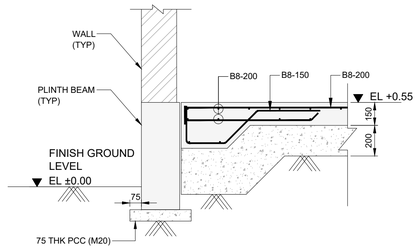
SUMMARY TABLE FOR PLINTH BEAM

LEVEL (TOB) (M)	BEAM MKD.	SIZE OF BEAM (mm) (B x D)	REINFORCEMENT						
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SIDE FACE REINFORCEMENT	STIRRUPS (S)	
			AL THRU (T1)	EXTRA (T2)	AL THRU (B1)	EXTRA (B2)	AL THRU BOTH FACE (SF)	AT SUPPORT (S1)	AT SPAN (S2)
+0.550	PB01 TO PB06, PB25 TO PB33, PB56 TO PB58	250 x 700	3-B25	2-B20	3-B25	2-B16	2-B12	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+0.350	PB09	250 x 450	2-B20	2-B16	2-B20	2-B20	-	2L-B8 @ 200 C/C	2L-B8 @ 200 C/C
+0.400	PB17 TO PB21, PB35, PB38, PB42 TO PB48	250 x 450	2-B20	2-B25	2-B20	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+0.400	PB10 TO PB14	250 x 450	2-B20	3-B25	2-B20	3-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 150 C/C
+0.350	PB15, PB22	250 x 450	2-B20	3-B25	2-B20	3-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 150 C/C
+0.350	PB16	250 x 450	2-B20	1-B16	2-B20	3-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 100 C/C
+0.400	PB23	250 x 500	2-B20	2-B25	2-B20	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+0.350	PB24	250 x 450	2-B20	2-B25	2-B20	3-B25	-	2L-B8 @ 100 C/C	2L-B8 @ 100 C/C
+0.400	PB34	250 x 450	2-B20	1-B16	2-B20	3-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 100 C/C
+0.400	PB36, PB37, PB39 & PB40	250 x 450	2-B25	2-B25	2-B20	3-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 100 C/C
+0.550	PB50 TO PB52	250 x 650	2-B25	3-B25	2-B25	2-B25	2-B12	2L-B12 @ 100 C/C	2L-B12 @ 100 C/C
+0.350	PB53 TO PB55	250 x 450	2-B20	1-B16	2-B20	3-B25	-	2L-B8 @ 100 C/C	2L-B8 @ 100 C/C
+0.350	PB22A	500 x 450	2-B20+2-B25	3-B25	2-B20+2-B25	3-B25	-	4L-B10 @ 100 C/C	4L-B10 @ 100 C/C
+0.400	PB07, PB08, PB41, PB49	250 x 450	2-B20	-	2-B25	3-B20	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C



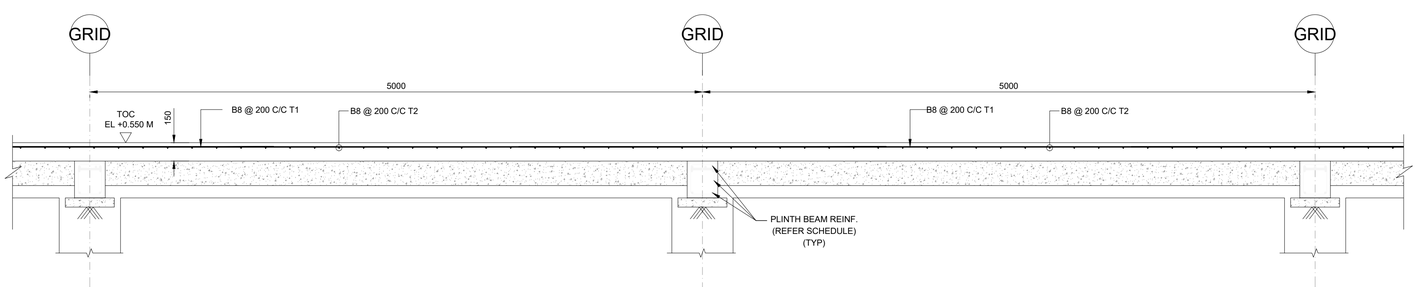
TYPICAL RC DETAILS AT PLINTH BEAM PB27, PB28 & PB29

SCALE 1:20



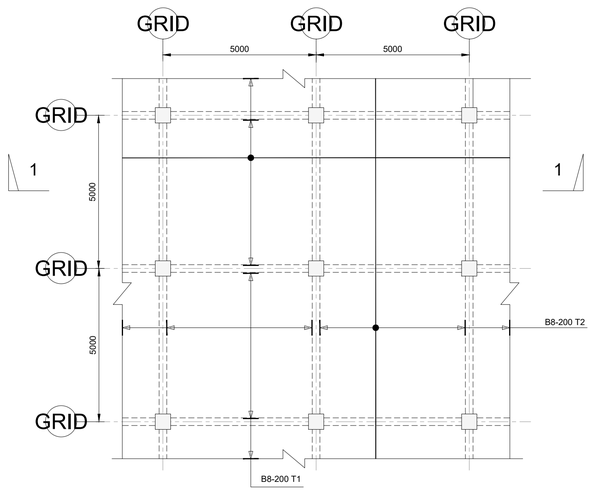
TYPICAL SECTION AT END OF GRADE SLAB

SCALE 1:20



SECTION 1-1

SCALE 1:25



TYPICAL SLAB ON GRADE (PART PLAN)

(PLAN SHOWING REINFORCEMENT DETAILS)
SCALE 1:100

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
PLINTH BEAM & GRADE SLAB
REINFORCEMENT DETAILS

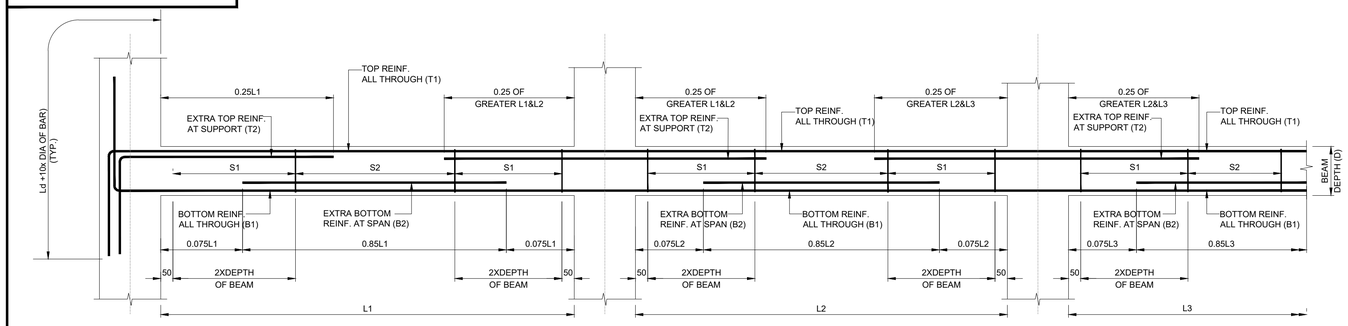
DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2144	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

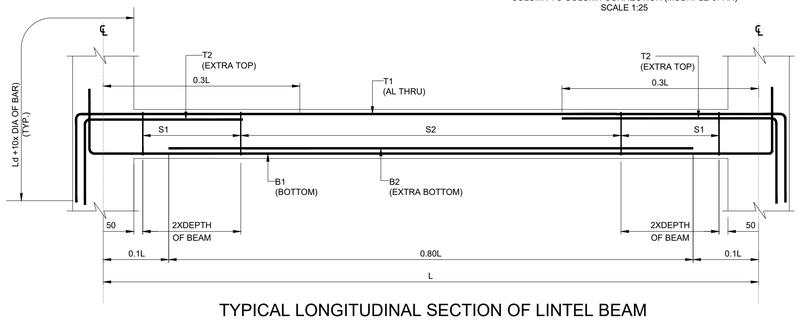
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2145

DO NOT SCALE



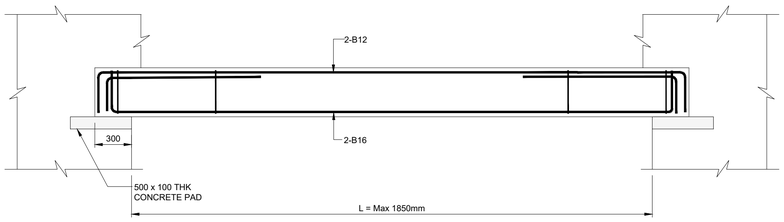
TYPICAL LONGITUDINAL SECTION OF LINTEL BEAM

COLUMN TO COLUMN CONNECTION (MULTIPLE SPAN)
SCALE 1:25



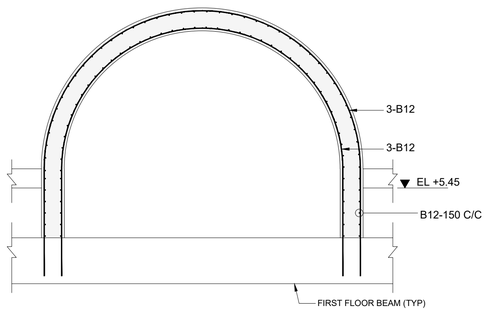
TYPICAL LONGITUDINAL SECTION OF LINTEL BEAM

COLUMN TO COLUMN CONNECTION (SINGLE SPAN)
SCALE 1:25



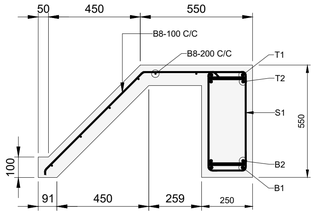
TYPICAL LONGITUDINAL SECTION OF LOCAL LINTEL BEAM

(DOOR & WINDOW LINTEL) (BEARING ON BRICK WALL)
SCALE 1:25



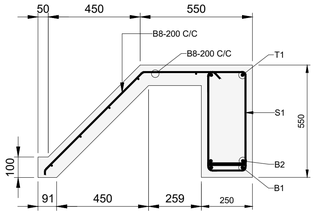
REINFORCEMENT DETAIL OF ARCH LINTEL ON GRID - 01

SCALE 1:40



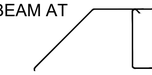
TYPICAL CROSS SECTION OF LINTEL CUM CHAJJA BEAM AT SUPPORT

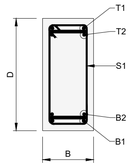
SCALE 1:15



TYPICAL CROSS SECTION OF LINTEL CUM CHAJJA BEAM AT SPAN

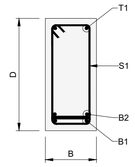
SCALE 1:15





TYPICAL CROSS SECTION OF LINTEL BEAM AT SUPPORT

SCALE 1:15



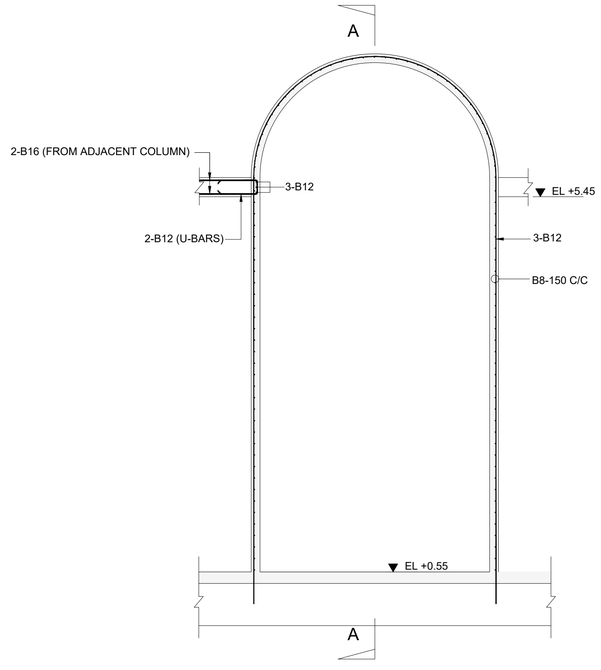
TYPICAL CROSS SECTION OF LINTEL BEAM AT SPAN

SCALE 1:15

SUMMARY TABLE FOR LINTEL BEAM

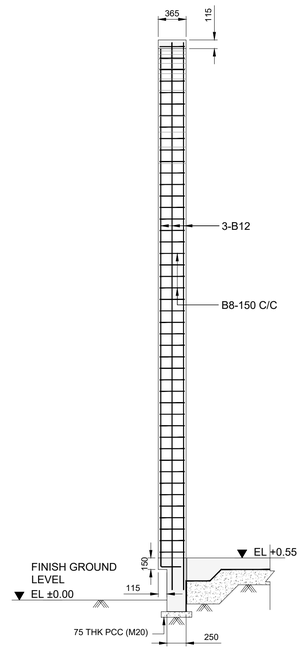
LEVEL (BOB) (M)	BEAM MKD.	SIZE OF BEAM (mm) (B x D)	REINFORCEMENT					
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (S)	
			AL THRU (T1)	EXTRA (T2)	AL THRU (B1)	EXTRA (B2)	AT SUPPORT (S1)	AT SPAN (S2)
+3.000	LB01,LB02,LB03,LB03a LB04 TO LB06 LB08 TO LB14	REFER SECTION	2-B25	1-B25	2-B25	1-B20	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+3.000	LB07	250 x 550	2-B25	1-B25	2-B25	1-B20	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+7.200	LB15 TO LB21	REFER SECTION	2-B25	1-B25	2-B25	1-B20	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+5.450	LB22 TO LB43	250 x 250	2-B16	-	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 100 C/C
TOP OF INTERNAL DOORS	LOCAL LINTEL BEAM	250 x 250	2-B12	-	2-B16	-	2L-B8 @ 200 C/C	2L-B8 @ 200 C/C

NOTE- DRAWING IS INDICATING DESIGN REINFORCEMENT. CONTRACTOR NEEDS TO WORKOUT DUCTILE DETAILING AS PER IS 13920-2016.



REINFORCEMENT DETAIL OF ARCH LINTEL

SCALE 1:40



SECTION A-A

SCALE 1:40

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

TYP - TYPICAL
BOB - BOTTOM OF BEAM

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	YSK	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LINTEL BEAM & CHAJJA
REINFORCEMENT DETAILS

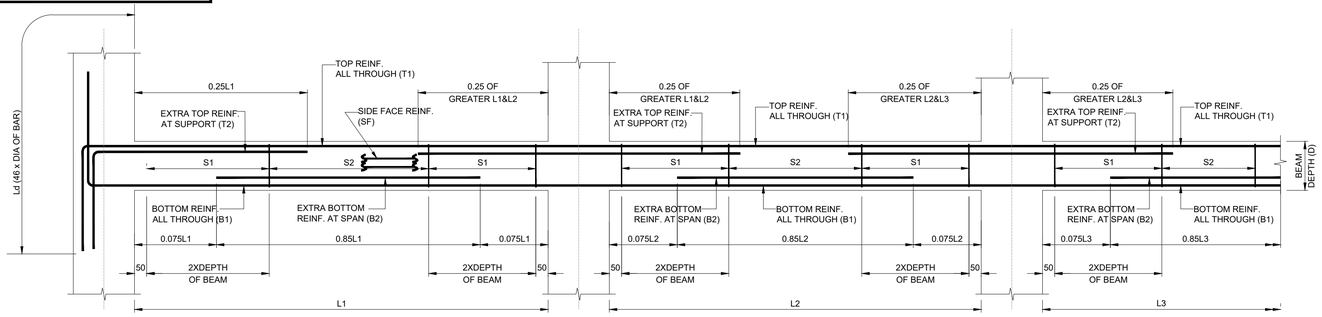
DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2145	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

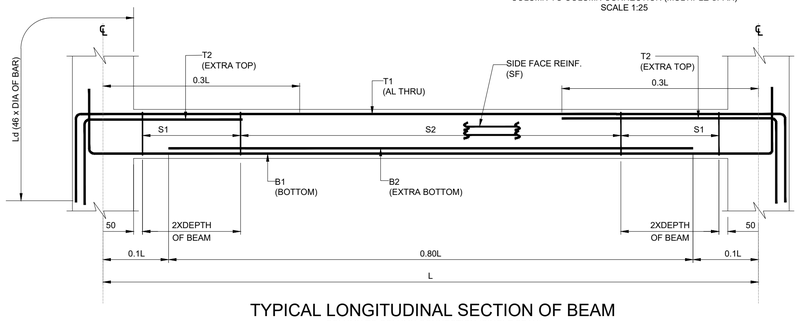
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2146

DO NOT SCALE



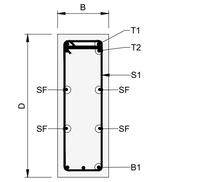
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (MULTIPLE SPAN)
SCALE 1:25



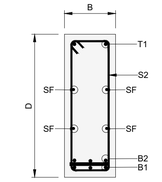
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (SINGLE SPAN)
SCALE 1:25



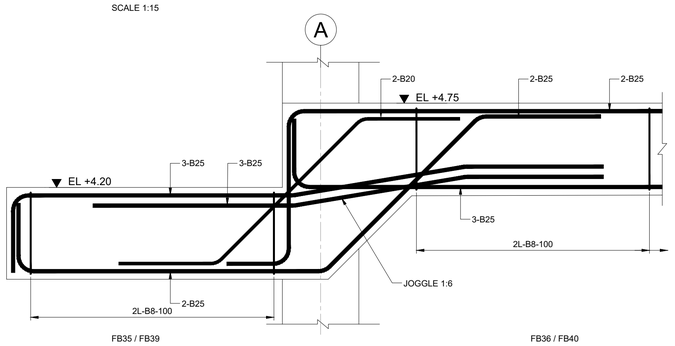
TYPICAL CROSS SECTION OF FIRST FLOOR BEAM AT SUPPORT

SCALE 1:15



TYPICAL CROSS SECTION OF FIRST FLOOR BEAM AT SPAN

SCALE 1:15



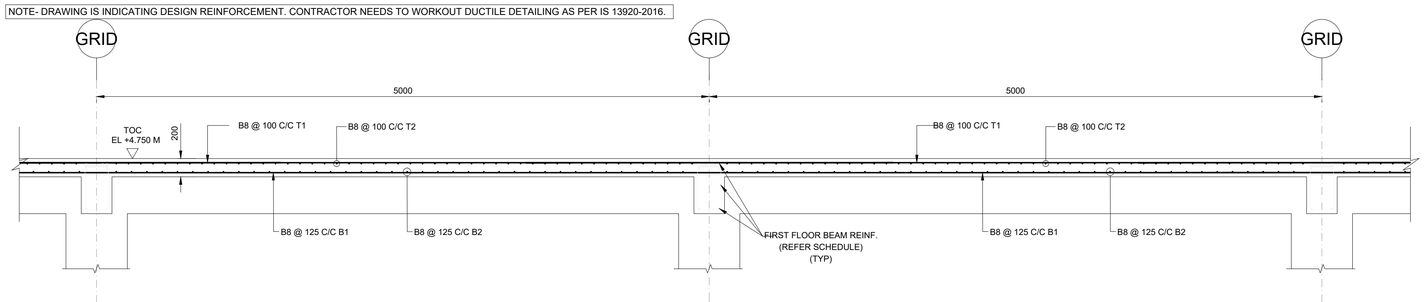
SECTION B-B

(FB35, FB36 & FB39, FB40)
SCALE 1:20

SUMMARY TABLE FOR FIRST FLOOR BEAM

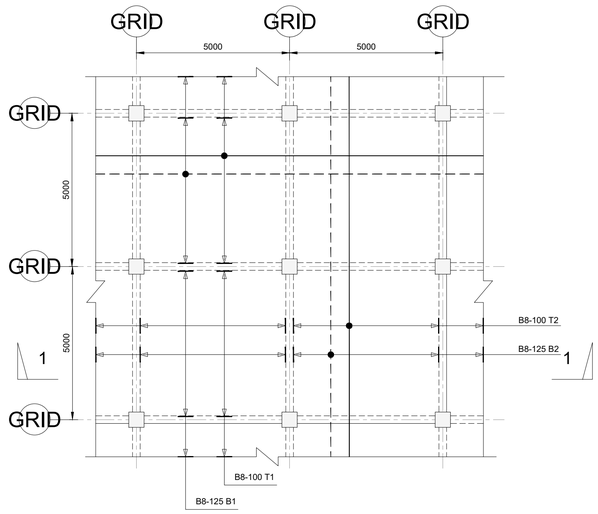
LEVEL (TOB) (M)	BEAM MKD.	SIZE OF BEAM (mm) (B x D)	REINFORCEMENT						
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SIDE FACE REINFORCEMENT	STIRRUPS (S)	
			AL THRU (T1)	EXTRA (T2)	AL THRU (B1)	EXTRA (B2)	AL THRU BOTH FACE (SF)	AT SUPPORT (S1)	AT SPAN (S2)
+4.750	FB01, FB03 TO FB06 FB10 TO FB12 FB17 TO FB20 FB25 FB27 TO FB34 FB37 TO FB38 FB41 TO FB52	250 x 600	2-B25	2-B25	3-B25	-	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB02	250 x 600	3-B25	2-B20	3-B25	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.550	FB09, FB56 TO FB58	250 x 600	2-B25	2-B25	3-B25	-	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB13, FB21	250 X 600	3-B25	2-B25	3-B25	2-B16	-	2L-B10 @ 100 C/C	2L-B10 @ 100 C/C
+4.750	FB14	250 X 600	3-B25	2-B25	3-B25	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.550	FB15, FB22	250 X 600	3-B25	2-B25	3-B25	2-B16	-	2L-B10 @ 100 C/C	2L-B10 @ 100 C/C
+4.550	FB16	250 X 600	2-B20	-	3-B25	2-B20	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB23	250 X 800	2-B25	2-B25	2-B25	-	3-B12	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.550	FB24	250 X 600	2-B25	2-B25	3-B25	-	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB26	250 X 1150	2-B25	2-B25	3-B25	-	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB53 & FB 54	250 X 800	3-B25	3-B25	3-B25	2-B25	3-B12	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.750	FB55	250 X 600	3-B25	3-B25	3-B25	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.550	FB59 TO FB61	250 X 600	3-B25	3-B25	3-B25	2-B16	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+4.550	FB22A	500 X 600	3-B25+2-B20	2-B25	3-B25+2-B20	2-B16	-	4L-B10 @ 100 C/C	4L-B10 @ 100 C/C

NOTE- DRAWING IS INDICATING DESIGN REINFORCEMENT. CONTRACTOR NEEDS TO WORKOUT DUCTILE DETAILING AS PER IS 13920-2016.



SECTION 1-1

SCALE 1:25



PART PLAN AT TOC +4.750m CD LEVEL

(PLAN SHOWING REINFORCEMENT DETAILS)
SCALE 1:100

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

DEVELOPMENT LENGTH

Ldc (DEVELOPMENT LENGTH IN COMPRESSION) IN mm
B32 = 960mm
B25 = 750mm
B20 = 600mm
B16 = 480mm
NOTE: 'H' min WILL BE BASED ON COLUMN REBAR'S Ldc

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hndhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
FIRST FLOOR BEAM & SLAB REINFORCEMENT DETAILS

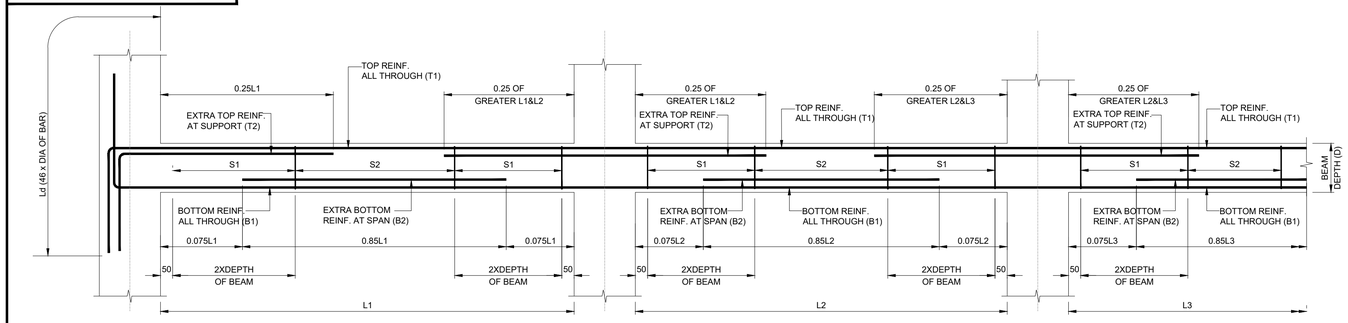
DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2146	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

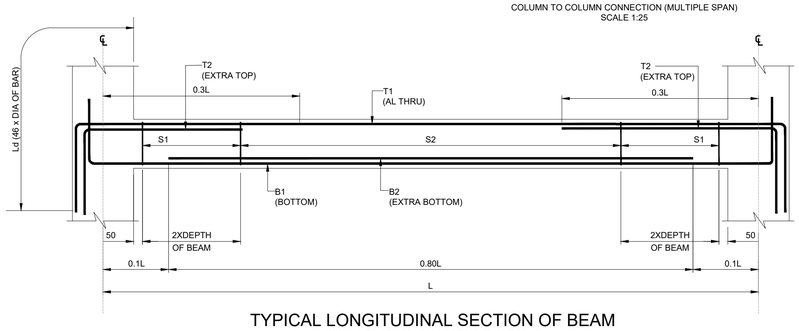
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2147

DO NOT SCALE



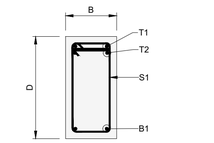
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (MULTIPLE SPAN)
SCALE 1:25



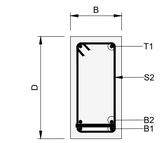
TYPICAL LONGITUDINAL SECTION OF BEAM

COLUMN TO COLUMN CONNECTION (SINGLE SPAN)
SCALE 1:25



TYPICAL CROSS SECTION OF TECHNICAL FLOOR BEAM AT SUPPORT

SCALE 1:15



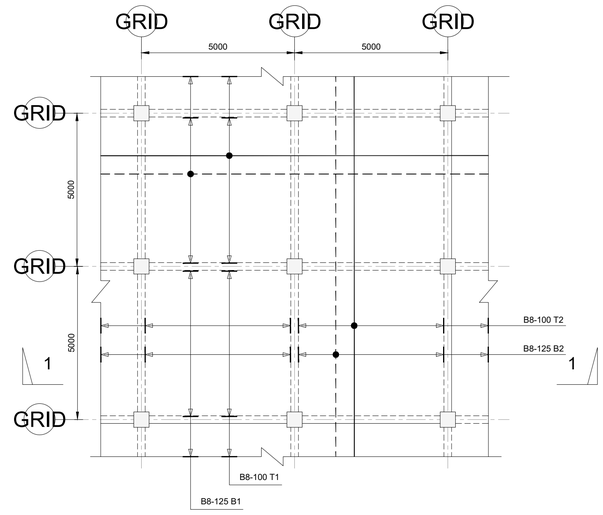
TYPICAL CROSS SECTION OF TECHNICAL FLOOR BEAM AT SPAN

SCALE 1:15

SUMMARY TABLE FOR TECHNICAL FLOOR BEAM

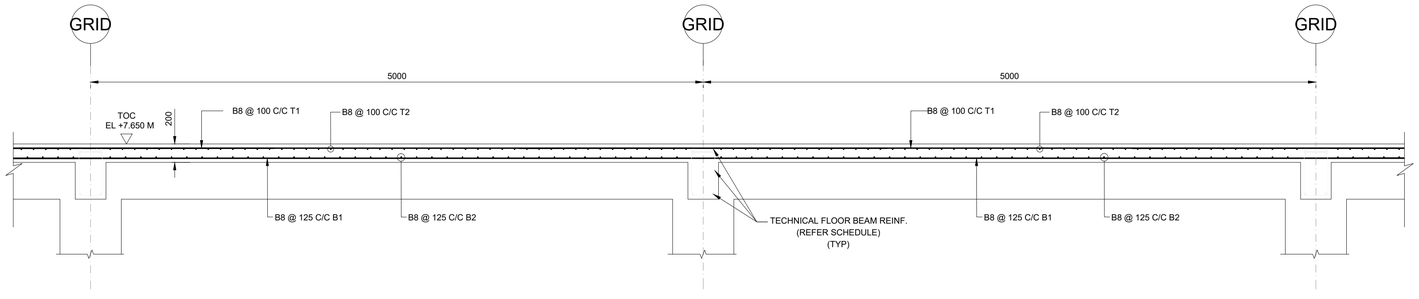
LEVEL (TOB) (M)	BEAM MKD.	SIZE OF BEAM (mm) (B x D)	REINFORCEMENT					
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (S)	
			AL THRU (T1)	EXTRA (T2)	AL THRU (B1)	EXTRA (B2)	AT SUPPORT (S1)	AT SPAN (S2)
+7.650	TB02 TB04, TB06 TO TB08 TB10 TO TB17	250 x 450	2-B20	2-B20	2-B25	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+7.650	TB01, TB03, TB03A, TB05 & TB09	250 x 450	2-B20	3-B20	2-B25	-	2L-B10 @ 100 C/C	2L-B10 @ 200 C/C

NOTE- DRAWING IS INDICATING DESIGN REINFORCEMENT. CONTRACTOR NEEDS TO WORKOUT DUCTILE DETAILING AS PER IS 13920-2016.



PART PLAN AT TOC +7.650m LEVEL

(PLAN SHOWING REINFORCEMENT DETAILS)
SCALE 1:100



SECTION 1-1

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

DEVELOPMENT LENGTH

Ldc (DEVELOPMENT LENGTH IN COMPRESSION) IN mm
B32 = 960mm
B25 = 750mm
B20 = 600mm
B16 = 480mm
NOTE: 'H' min WILL BE BASED ON COLUMN REBAR'S Ldc

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	YSK	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
TECHNICAL FLOOR BEAM & SLAB REINFORCEMENT DETAILS

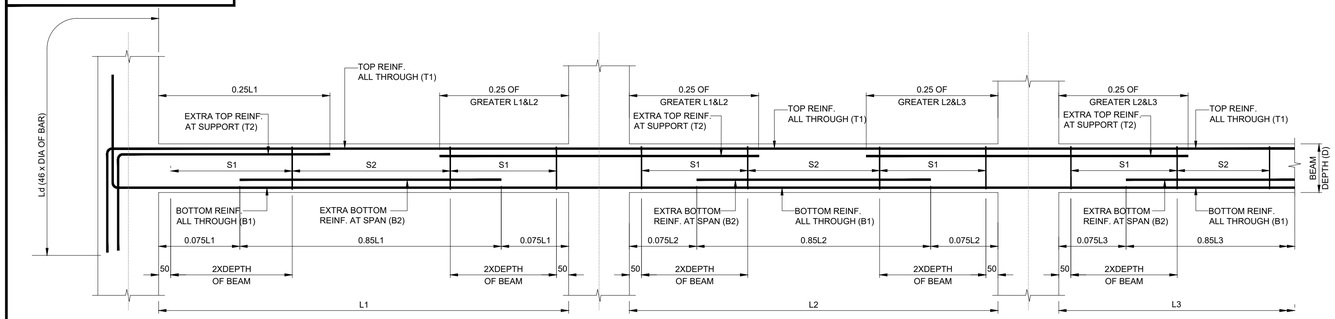
DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2147	A3	P01

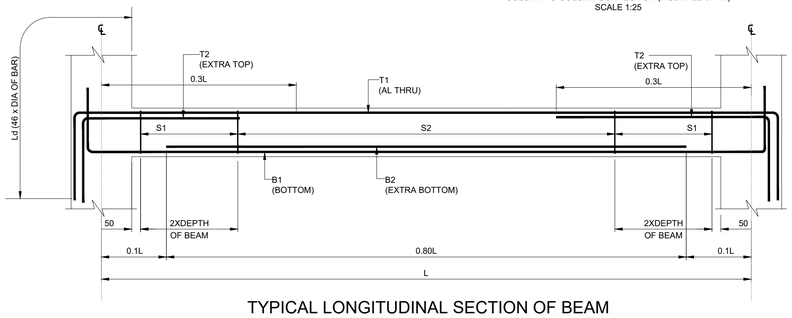
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2148

DO NOT SCALE



TYPICAL LONGITUDINAL SECTION OF BEAM
COLUMN TO COLUMN CONNECTION (MULTIPLE SPAN)
SCALE 1:25

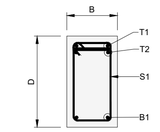


TYPICAL LONGITUDINAL SECTION OF BEAM
COLUMN TO COLUMN CONNECTION (SINGLE SPAN)
SCALE 1:25

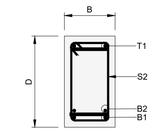
SUMMARY TABLE FOR TECHNICAL FLOOR BEAM

LEVEL (TOB) (M)	BEAM MKD.	SIZE OF BEAM (mm) (B x D)	REINFORCEMENT					
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (S)	
			AL THRU (T1)	EXTRA (T2)	AL THRU (B1)	EXTRA (B2)	AT SUPPORT (S1)	AT SPAN (S2)
+9.200	RB07 TO RB10, RB12 TO RB16, RB26 TO RB35, RB32 & RB33, RB37 & RB38	250 x 500	2-B25	-	2-B25	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+9.200	RB11, RB16, RB36, RB39	250 x 500	2-B25	1-B25	2-B25	1-B20	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C
+9.300	RB01 TO RB06, RB17 TO RB25, RB40 TO RB42	REFER SECTION	2-B25	-	2-B25	-	2L-B8 @ 100 C/C	2L-B8 @ 200 C/C

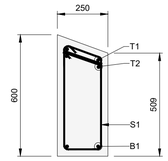
NOTE- DRAWING IS INDICATING DESIGN REINFORCEMENT. CONTRACTOR NEEDS TO WORKOUT DUCTILE DETAILING AS PER IS 13920-2016.



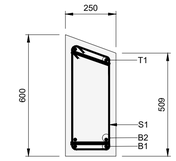
TYPICAL CROSS SECTION OF ROOF BEAM AT SUPPORT
SCALE 1:15



TYPICAL CROSS SECTION OF ROOF BEAM AT SPAN
SCALE 1:15

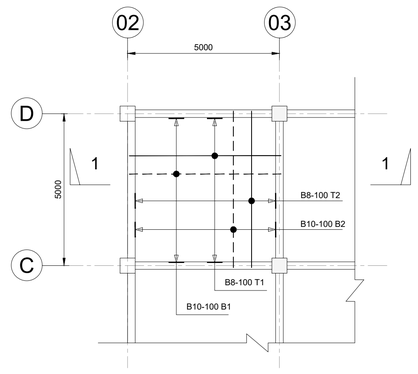


TYPICAL CROSS SECTION OF ROOF BEAM AT SUPPORT
SCALE 1:15

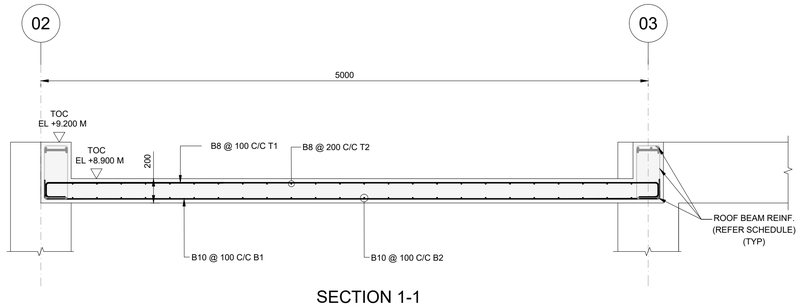


TYPICAL CROSS SECTION OF ROOF BEAM AT SPAN
SCALE 1:15

RB01 TO RB07, RB19 TO RB24, RB45 TO RB47



PART PLAN AT TOC +8.900m LEVEL
(PLAN SHOWING REINFORCEMENT DETAILS)
SCALE 1:100



SECTION 1-1
SCALE 1:25

© HaskoningDHV Consulting Pvt. Ltd.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

DEVELOPMENT LENGTH

Ldc (DEVELOPMENT LENGTH IN COMPRESSION) IN mm
B32 = 960mm
B25 = 750mm
B20 = 600mm
B16 = 480mm
NOTE: 'H' min WILL BE BASED ON COLUMN REBAR'S Ldc

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

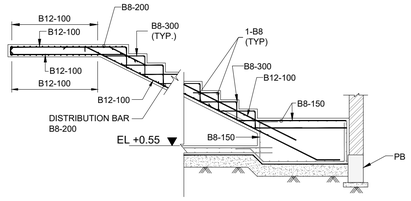
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
ROOF BEAM REINFORCEMENT DETAILS

DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2022	SCALE @A1: AS SHOWN	REF.

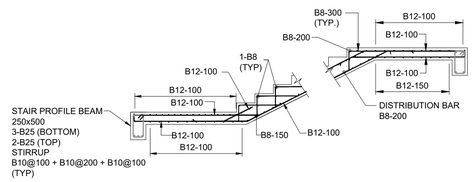
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2148	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2149

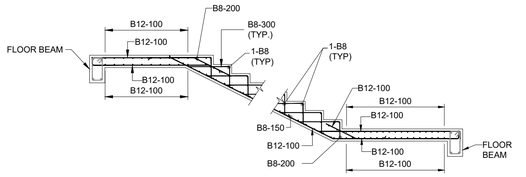
DO NOT SCALE



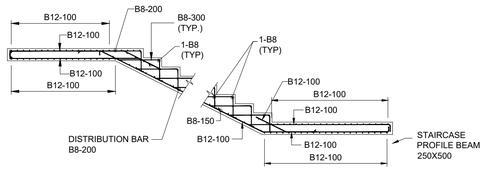
SECTION 1-1
REINFORCEMENT DETAILS OF GROUND FLOOR FLIGHT
SCALE 1:50



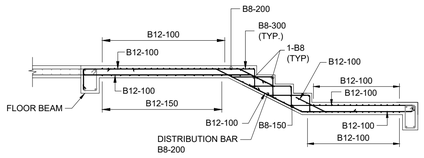
SECTION 3-3
REINFORCEMENT DETAILS OF FLIGHT
SCALE 1:50



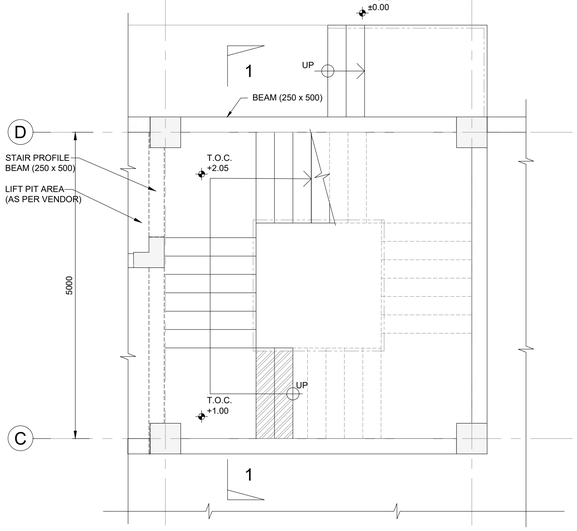
SECTION 5-5
REINFORCEMENT DETAILS OF FLIGHT
SCALE 1:50



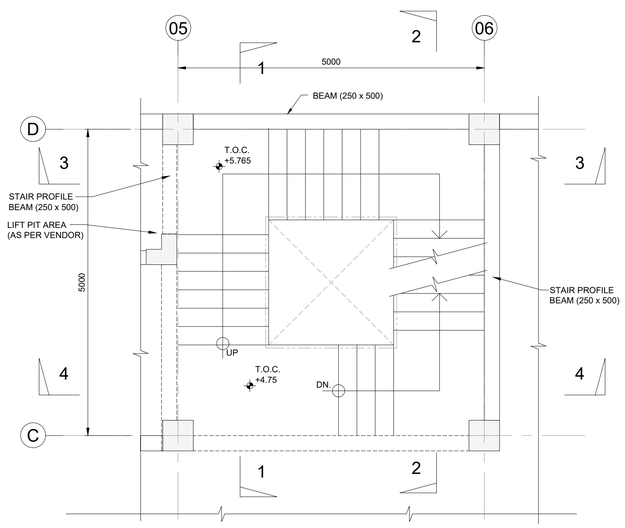
SECTION 2-2
REINFORCEMENT DETAILS OF FLIGHT
SCALE 1:50



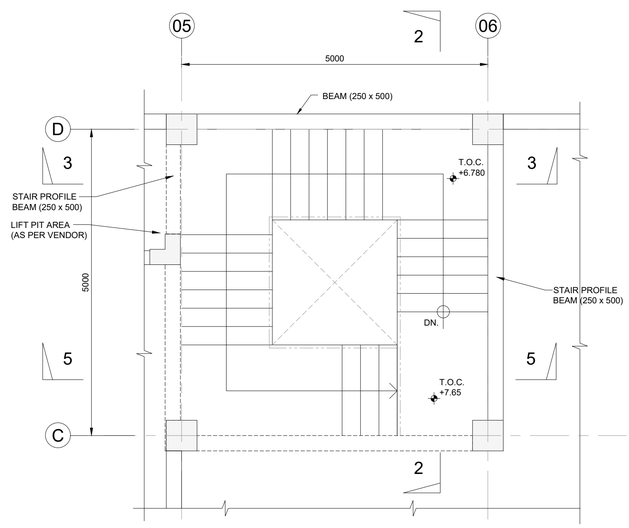
SECTION 4-4
REINFORCEMENT DETAILS OF FLIGHT
SCALE 1:50



GROUND FLOOR PLAN
SCALE 1:50



FIRST FLOOR PLAN
SCALE 1:50



TECHNICAL PLATFORM PLAN
SCALE 1:50

NOTE:- READ THIS DRAWING ALONG WITH RELEVANT ARCHITECTURAL DRAWING.
CONTRACTOR NEEDS TO CHECK DIMENSIONAL MARGIN FOR FINISHING WHILE CONSTRUCTING THE TREAD AND RISER.

1. CHECK ALL LEVELS AND DIMENSION OF LIFT PIT AS PER VENDER'S REQUIREMENT.
2. CHECK LINTEL BEAM, FLOOR BEAM AND OTHER DIMENSIONS AS PER LIFT VENDOR'S REQUIREMENT.
3. CHECK ALL DETAILS OF LIFT VENDOR AND CORRELATE IT WITH STRUCTURE BEFORE EXECUTION WORK.

© HaskoningDHV Consulting Pvt. Ltd

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 ACCORDANCE WITH IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.
6. MIN COVER TO -
   COLUMN = 40mm
   BEAM = 50mm
   SLAB = 30mm
   FOUNDATION = 75mm
7. ALL STRUCTURAL ELEMENT (FOUNDATION, SLAB ON GRADE ETC) SHALL BE FOUNDED ON FIRM GROUND.
8. ANY EXCAVATED EARTH BELOW FOUNDATION SHALL BE REPLACED WITH LEAN CONCRETE.
9. SBC CONSIDERED AT FOUNDATION LEVEL IS 15 TON / SQM.

LEGEND

COLUMN
FOOTING
PLAIN CEMENT CONCRETE
TYPICAL

DEVELOPMENT LENGTH

Ldc (DEVELOPMENT LENGTH IN COMPRESSION) IN mm
B32 = 960mm
B25 = 750mm
B20 = 600mm
B16 = 480mm
NOTE: 'H' min WILL BE BASED ON COLUMN REBAR'S Ldc

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	YSK	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61396000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

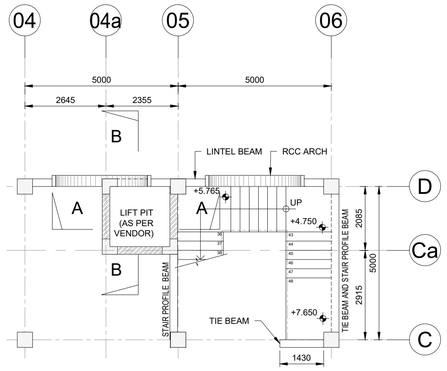
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
STAIRCASE REINFORCEMENT DETAILS

DRAWN	CHECKED	APPROVED
YSK	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2149	A3	P01

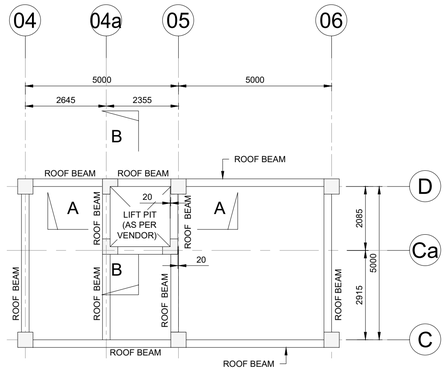
DRG No.
DI1530-RHD-ZZ-NG-DR-S-2150

DO NOT SCALE



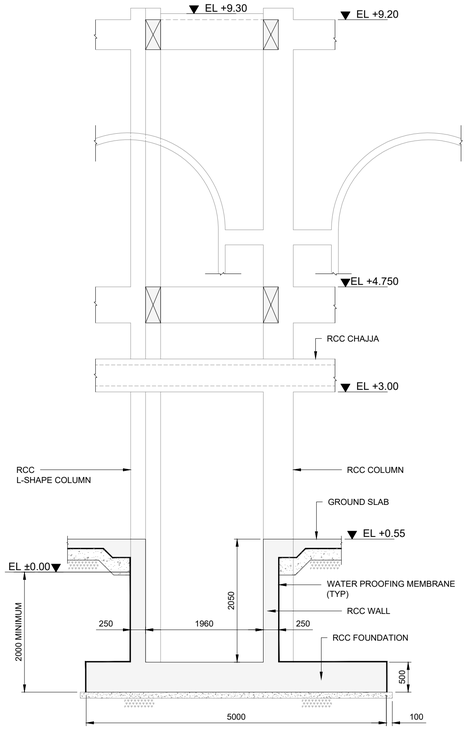
PLAN AT BOB +7.650m LEVEL

SCALE 1:100



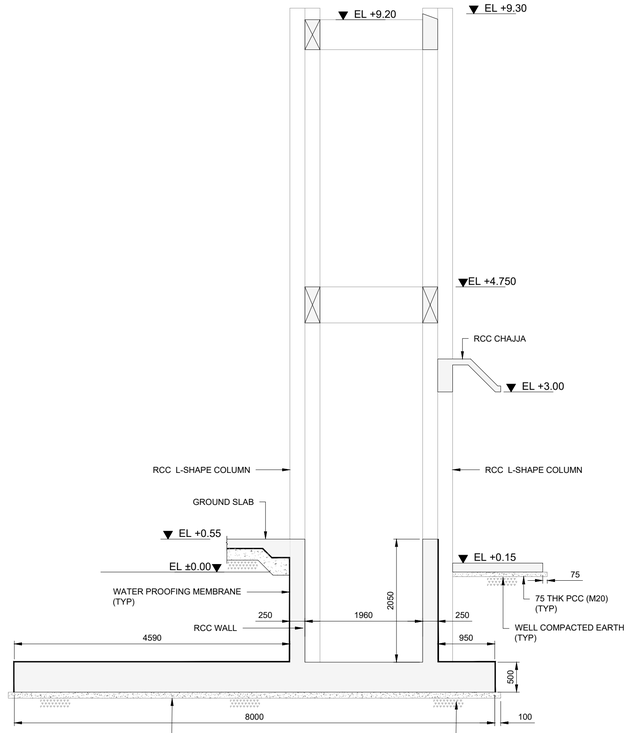
PLAN AT TOC +9.200m LEVEL

SCALE 1:100



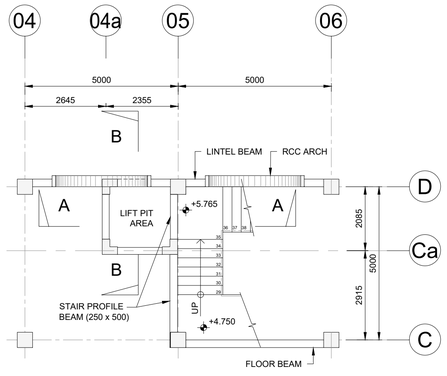
SECTION A-A

SCALE 1:50



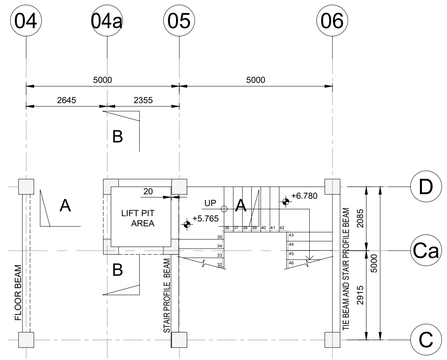
SECTION B-B

SCALE 1:50



PLAN AT TOC +5.765m LEVEL

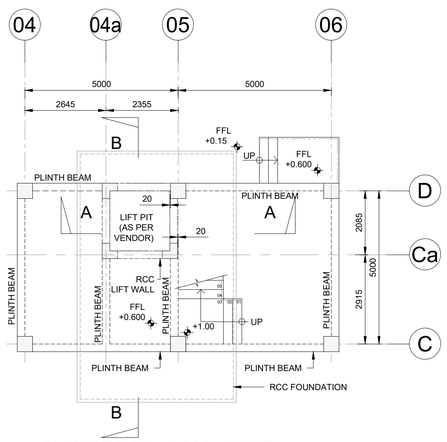
SCALE 1:100



PLAN AT TOC +6.780m LEVEL

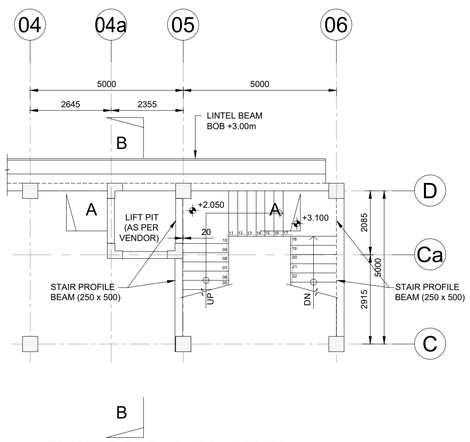
SCALE 1:100

1. CHECK ALL LEVELS AND DIMENSION OF LIFT PIT AS PER VENDER'S REQUIREMENT.
2. CHECK LINTEL BEAM, FLOOR BEAM AND OTHER DIMENSIONS AS PER LIFT VENDOR'S REQUIREMENT.
3. CHECK ALL DETAILS OF LIFT VENDOR AND CORRELATE IT WITH STRUCTURE BEFORE EXECUTION WORK.



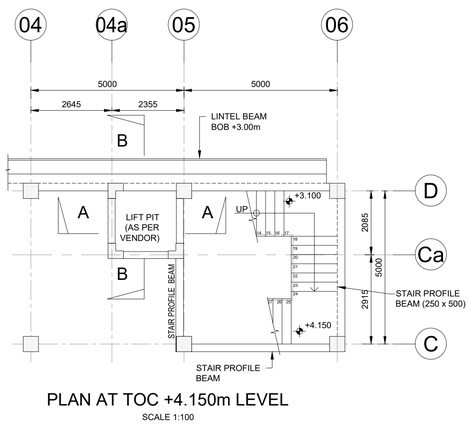
PLAN AT TOC +1.000m LEVEL

SCALE 1:100



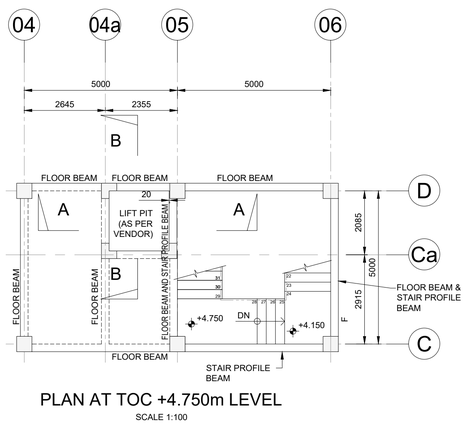
PLAN AT TOC +3.100m LEVEL

SCALE 1:100



PLAN AT TOC +4.150m LEVEL

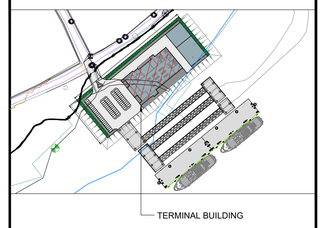
SCALE 1:100



PLAN AT TOC +4.750m LEVEL

SCALE 1:100

© HaskoningDHV Consulting Pvt. Ltd



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 MINIMUM GRADE OF LEAN CONCRETE BELOW FOUNDATION AND FLOOR SHALL BE M20 ACCORDING TO IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL
- 230 MM THICK BRICK MASONRY WALL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

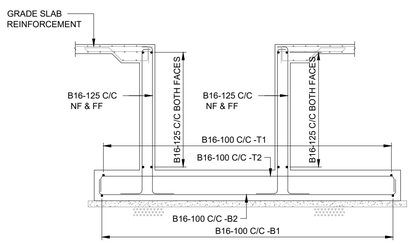
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LIFT PIT LAYOUT
(SHEET 1 OF 2)

DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

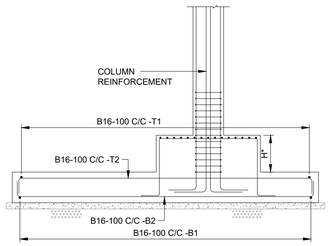
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2150	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-S-2150

DO NOT SCALE

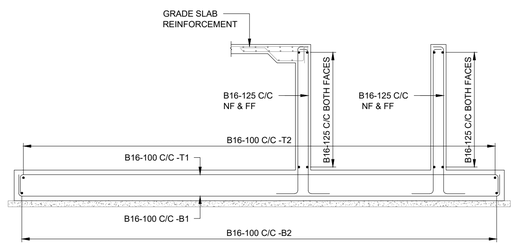


SECTION A-A
SCALE 1:50

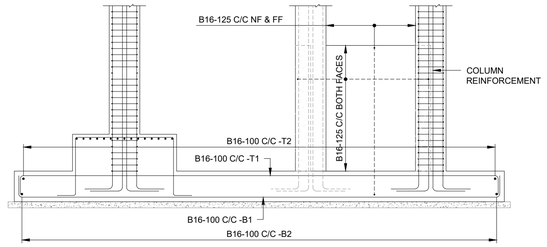


SECTION B-B
SCALE 1:50

* FOR PEDESTAL DETAIL, REFER FOUNDATION DRAWING NO - DI1530-RHD-ZZ-NG-DR-S-2143

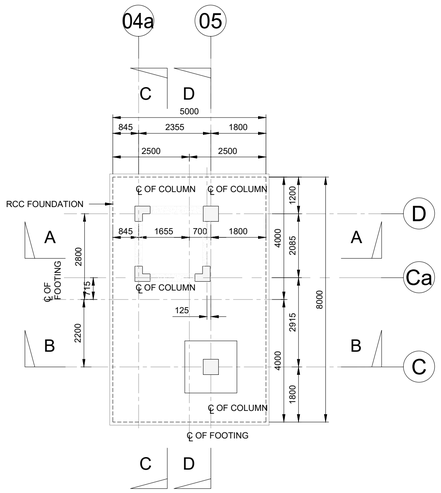


SECTION C-C
SCALE 1:25



SECTION D-D
SCALE 1:25

NOTE-DRAWING IS INDICATING DESIGN REINFORCEMENT. CONTRACTOR NEEDS TO WORKOUT DUCTILE DETAILING AS PER IS 13920-2016.



F6- FOUNDATION PLAN
SCALE 1:100

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
2. REFER ARCHITECTURAL DRAWINGS FOR ALL REFERENCE LEVELS.
3. MINIMUM CONCRETE GRADE SHALL BE M40 ACCORDANCE WITH IS:456 UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCEMENT IS TO BE IN ACCORDANCE WITH IS:1786-2008. DEFINITION GRADE Fe 500D (CORROSION RESISTANT)
5. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH IS:2062-2011. DEFINITION GRADE A.
6. MIN COVER TO -
   COLUMN = 40mm
   BEAM = 50mm
   SLAB = 30mm
   FOUNDATION = 75mm
7. ALL STRUCTURAL ELEMENT (FOUNDATION, SLAB ON GRADE ETC) SHALL BE FOUNDED ON FIRM GROUND.
8. ANY EXCAVATED EARTH BELOW FOUNDATION SHALL BE REPLACED WITH LEAN CONCRETE.
9. SBC CONSIDERED AT FOUNDATION LEVEL IS 15 TON / SQM.

LEGEND

C - COLUMN
F - FOOTING
PCC - PLAIN CEMENT CONCRETE
TYP - TYPICAL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	RVA	RK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LIFT PIT RC WORK
(SHEET 2 OF 2)

DRAWN	CHECKED	APPROVED
RVA	RK	AK
DATE: FEB' 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-S-2150	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-E-2155

NORTH

NOTES:-
1. 40 DIA G.I. PIPE SLEEVES FOR LOOPING IN AND LOOPING OUT CABLE ARE PROVIDED PROVIDED IN POLE FOUNDATION.
2. ALL THE CABLES SHALL BE LAID IN 750 MM BELOW GROUND WITH SAND BRICK PROTECTION AS PER IS.1255.
3. ALL LIGHTING FIXTURES SHALL BE SUPPLIED COMPLETE WITH LAMP,CONTROL GEAR & ALL ACCESSORIES.
4. ALL LIGHTING POLE SHALL BE EARTHED BY 8 SWG. G.I. WIRE BY LOOP IN OUT METHOD.
5. ALL CO-ORDINATES ARE IN METERS AND DIMENSION ARE IN MM. UNLESS OTHERWISE SPECIFIED.
6. CATALOGUE AND DATA SHEET OF LIGHTING FIXTURES SHALL BE SUBMITTED LATER.
7. THE LIGHTING POLES SHALL BE GALVANIZED WITH OCTAGONAL ANGULAR WITH RECTANGULAR BASE PLATE AND FOUNDATION BOLT ARRANGEMENT.
8. MINOR MODIFICATION IN THE LIGHTING LAYOUT MAY OCCUR SUBJECT TO THE SITE REQUIREMENT.

LEGENDS

SR.NO.	DESCRIPTION	SYMBOL
01	IP-66 PROTECTED LED STREET LIGHT,100W FITTED ON 8.0 MTR. HIGH POLE	
02	IP-66 PROTECTED LED STREET LIGHT,60W FITTED ON 6.0 MTR. HIGH POLE	
03	IP-66 PROTECTED HIGH POWER LED FLOOD LIGHT, 120W MOUNTED ON BUILDING	

FIRE TANK 1 (50KL)
FIRE TANK 2 (50KL)
POTABLE WATER TANK (15KL)
WATER TANK PUMP HOUSE
RESERVED FOR ELECTRICAL UTILITY
GT-MN-004 300X300
GT-MN-003 300X300
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
SL-07
SL-08
SL-09
SL-10
SL-11
SL-12
SL-13
SL-15
SL-16
SL-17
AL-01
AL-02
AL-03
AL-04
WASTE BINS
TANK OIL SEPARATOR
BIO DIGESTER TANK (12 KL)
WASTE COLLECTION AREA
PL-01
PL-02
PL-03
PL-04
PL-05
PL-06
PL-07
PL-08
PL-09
PL-10
LWL

LIGHTING FIXTURE WITH LED LAMP
1.0 MTR.
GALVANIZED OCTAGONAL ANGULAR POLE WITH RECTANGULAR BASE PLATE & FOUNDATION BOLT ARRANGEMENT
AS PER SITE CONDITION
MARSHALLING BOX
CABLE GLAND
PVC ARMD. CABLE
RUBBER BUSHING
450 ROUND
GL
GL
40 NB GI PIPE SLEEVE
1.50
CONCRETE FOUNDATION (CONCRETE GRADE 1:1.5:3)

TYPICAL INSTALLATION OF STREET LIGHT FIXTURE

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	IP	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

TITLE
OUTDOOR LIGHTING LAYOUT
NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	IP	AK
DATE: FEB 2023	SCALE: @A1 1:200	REF.

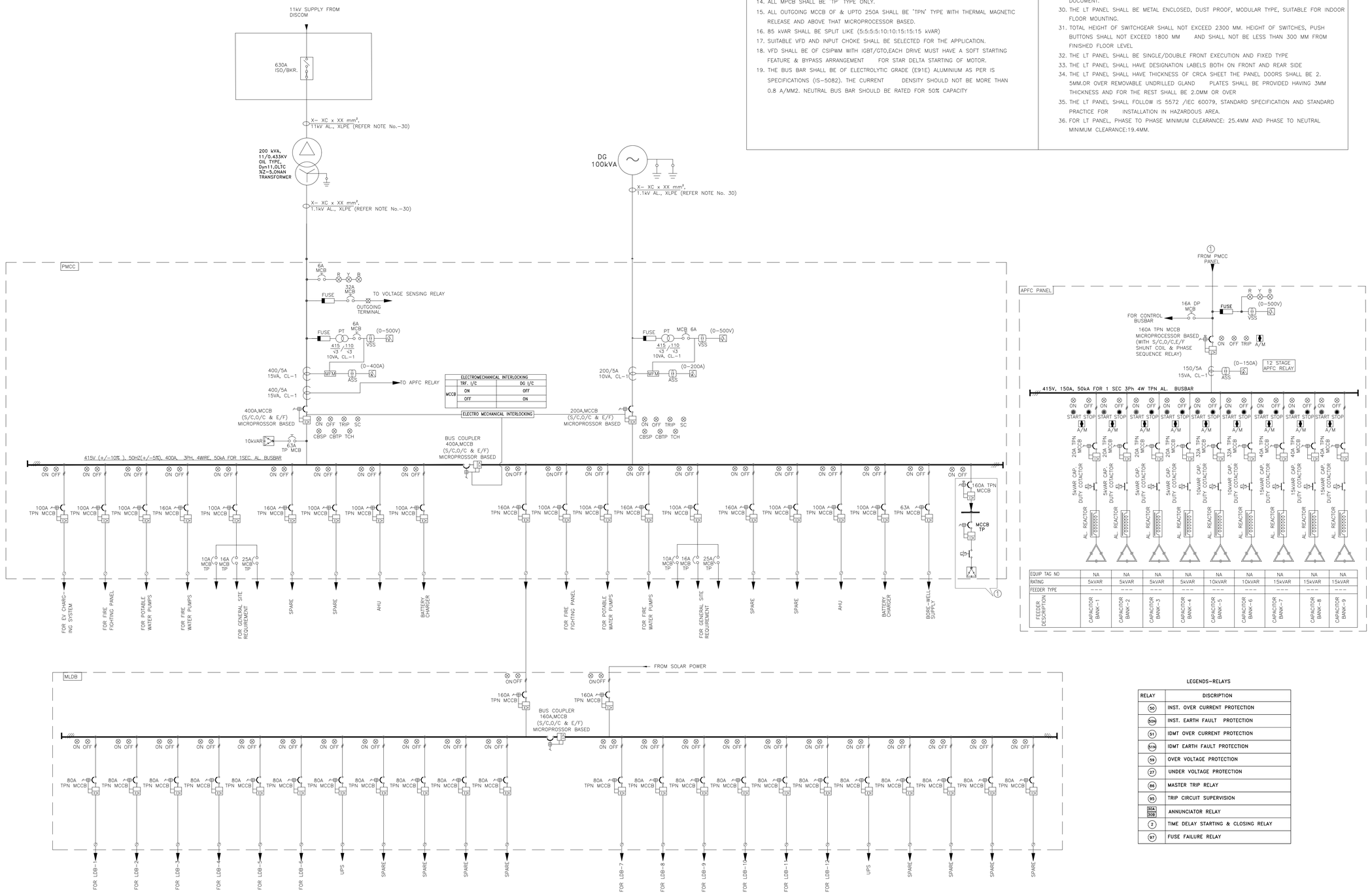
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2155	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-E-2156

GENERAL NOTE –

1. ENCLOSURE SHALL BE IP54 ONLY.
2. ALL MOTOR STARTER SHALL BE AS PER MANUFACTURER TYPE–2 CO ORDINATION CHART.
3. ALL MOTOR FEEDER SHALL BE LPBS COMPATIBLE.
4. CONTROL SUPPLY SHALL BE 230V AC .
5. ALL MOTOR FEEDER CONTACTOR SHALL BE OF AC3 DUTY.
6. ALL MCCB SHALL BE Icu = 100% OF Ics.
7. CABLE SHALL BE BOTTOM/TOP ENTRY.
8. ALL MV PANEL BOARDS SHOULD HAVE FORM OF SEPERATION FORM 3B.
9. NEOPRINE GASKET WILL BE PROVIDED ON DOORS AND OPENING.
10. ALL DOORS AND OPENING SHALL BE EARTHED BY 1.5 S.Q. MM CU. WIRE.
11. EARTH BUS SHALL BE COPPER.
12. ALL INDICATION LAMP SHALL BE LED CLUSTER TYPE ONLY.
13. CABLE COMPARTMENT SHALL HAVE LED LAMP INTERLOCKING WITH DOOR, SPACE HEATER WITH THERMOSTAT.
14. ALL MPCB SHALL BE 'TP' TYPE ONLY.
15. ALL OUTGOING MCCB OF & UPTO 250A SHALL BE 'TPN' TYPE WITH THERMAL MAGNETIC RELEASE AND ABOVE THAT MICROPROCESSOR BASED.
16. 85 kVAR SHALL BE SPLIT LIKE (5:5:5:5:10:10:15:15:15 kVAR)
17. SUITABLE VFD AND INPUT CHOKE SHALL BE SELECTED FOR THE APPLICATION.
18. VFD SHALL BE OF CSIPWM WITH IGBT/GTO,EACH DRIVE MUST HAVE A SOFT STARTING FEATURE & BYPASS ARRANGEMENT FOR STAR DELTA STARTING OF MOTOR.
19. THE BUS BAR SHALL BE OF ELECTROLYTIC GRADE (E91E) ALUMINIUM AS PER IS SPECIFICATIONS (IS–5082). THE CURRENT DENSITY SHOULD NOT BE MORE THAN 0.8 A/MM2. NEUTRAL BUS BAR SHOULD BE RATED FOR 50% CAPACITY
20. PANEL SHALL BE CONFIRMING TO IS 8623
21. POWER CONTACTOR USED IN APFC PANEL SHALL BE CAPACITOR DUTY i.e AC–4.
22. DESIGN AMBIENT TEMPERATURE SHALL BE CONSIDER AS 50°C FOR SELECTION OF ALL COMPONENTS .
23. ALL CAPACITORS SHALL BE HEAVY DUTY APP TYPE OF RATED VOLTAGE 480V & CAPACITORS SHOULD HAVE INBUILT DISCHARGE RESISTOR.
24. FOR APFC PANEL CONTROL VOLTAGE SHALL BE TAPPED FROM PHASE & NEUTRAL.
25. ALL MOTOR FEEDER CIRCUITS AND EQUIPMENT SHALL BE SO DESIGNED AND SELECTED TO OPERATE/CONTROL FROM LOCAL PLC & SCADA AT REMOTE LOCATION.
26. CABLE SIZE/TYPE OF VARIOUS FEEDERS SHALL BE FINALIZED DURING DETAILED ENGINEERING.
27. IEEE–519 STANDARD CODE TO BE CONSIDERED FOR HARMONICS MITIGATION AND SUBSEQUENTLY THE REACTORS SHALL BE RATED ACCORDINGLY.
28. THE CURRENT RATINGS OF CIRCUIT BREAKERS HAVE BEEN FINALIZED AS PER THE LATEST INDIAN STANDARD CODES.
29. LT PANEL SHALL BE MANUFACTURED, INSTALLED & COMMISSIONED AS PER THE TENDER DOCUMENT.
30. THE LT PANEL SHALL BE METAL ENCLOSED, DUST PROOF, MODULAR TYPE, SUITABLE FOR INDOOR FLOOR MOUNTING.
31. TOTAL HEIGHT OF SWITCHGEAR SHALL NOT EXCEED 2300 MM. HEIGHT OF SWITCHES, PUSH BUTTONS SHALL NOT EXCEED 1800 MM AND SHALL NOT BE LESS THAN 300 MM FROM FINISHED FLOOR LEVEL
32. THE LT PANEL SHALL BE SINGLE/DOUBLE FRONT EXECUTION AND FIXED TYPE
33. THE LT PANEL SHALL HAVE DESIGNATION LABELS BOTH ON FRONT AND REAR SIDE
34. THE LT PANEL SHALL HAVE THICKNESS OF CRCA SHEET THE PANEL DOORS SHALL BE 2. 5MM.OR OVER REMOVABLE UNDRILLED GLAND PLATES SHALL BE PROVIDED HAVING 3MM THICKNESS AND FOR THE REST SHALL BE 2.0MM OR OVER
35. THE LT PANEL SHALL FOLLOW IS 5572 /IEC 60079, STANDARD SPECIFICATION AND STANDARD PRACTICE FOR INSTALLATION IN HAZARDOUS AREA.
36. FOR LT PANEL, PHASE TO PHASE MINIMUM CLEARANCE: 25.4MM AND PHASE TO NEUTRAL MINIMUM CLEARANCE:19.4MM.



LEGENDS–RELAYS

RELAY	DISCRIPTION
50	INST. OVER CURRENT PROTECTION
50N	INST. EARTH FAULT PROTECTION
51	IDMT OVER CURRENT PROTECTION
51N	IDMT EARTH FAULT PROTECTION
59	OVER VOLTAGE PROTECTION
27	UNDER VOLTAGE PROTECTION
86	MASTER TRIP RELAY
95	TRIP CIRCUIT SUPERVISION
30A 30B	ANNUNCIATOR RELAY
2	TIME DELAY STARTING & CLOSING RELAY
97	FUSE FAILURE RELAY

LEGEND:–

SL NO	DESCRIPTION	SYMBOLS
1	VACUUM CIRCUIT BREAKER	
2	AIR CIRCUIT BREAKER	
3	LT MCCB MICROPROCESSOR BASED O/C,E/F & S/C RELEASE FOR RATING 250A & ABOVE FOR POWER FEEDER.	
4	LT MCCB WITH THERMAL MAGNETIC RELEASE FOR RATING BELOW 250A FOR POWER FEEDER.	
5	MOTOR PROTECTION CIRCUIT BREAKER	
6	ELECTRICAL POWER CONTRACTOR	
7	MCB WITH O/C & S/C RELEASE.	
8	AMMETER SELECTOR SWITCH VOLTMETER SELECTOR SWITCH	ASS VSS
9	AMMETER (96x96 MM)	A
10	VOLTMETER (96x96 MM)	V
11	CURRENT TRANSFORMER	
12	POTENTIAL TRANSFORMER	
13	8 WINDOW ANNUNCIATION	
14	PT FUSE	
15	LIGHTNING ARRESTOR	
16	BREAKER CONTROL SWITCH (T/N/C SWITCH).	
17	LOCAL / REMOTE SELECTOR SWITCH.	L/R
18	COMMUNICABLE TYPE ENERGY MANAGEMENT METER	MFM
19	INDICATION LAMP, ON–RED/OFF–GREEN/TRIP–AMBER/SPRING CHARGED–BLUE/WHITE–CB ON TEST POS./RED–CB ON SERVICE POS./WHITE–TRIP CIRCUIT HEALTHY INDICATION.	ON OFF TRIP SC CBTP CBSP TCH
20	PUSH BUTTON FOR , START/STOP	START STOP
21	VARIABLE VREQUENCY DRIVE/SOFT STARTER	
22	OVER LOAD RELAY	OLR
23	GANG OPERATED DEVICE (GOD)	
24	ELECTRIC HOOTER	
25	LOCAL PUSH BUTTON STATION (LPBS) EMERGENCY STOP & START FORWARD START,REVERSE START,EMERGENCY STOP	
26	DROP OUT FUSE	
27	TEST TERMINAL BOX	TTB
28	OIL TYPE, Dyn11,OLTC ,ONAN TRANSFORMER	
29	PHASE INDICATION LAMP	R Y B
30	CAPACITOR BANK	
31	AUTO / MANUAL SELECTOR SWITCH	A/M
32	REACTOR	
33	LOCK OUT RELAY	86
34	NUMERICAL PROTECTION RELAY.	50N 50 51 27 59 97 95 51N 2
35	ELECTRICAL BELL/BUZZER	

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	IP	AK

REVISIONS

CLIENT

ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT

Royal HaskoningDHV
Enhancing Society Together

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT

ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT

PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

TITLE

SINGLE LINE DIAGRAM FOR OVERALL POWER DISTRIBUTION NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	IP	AK
DATE: FEB 2023	SCALE: @A1 NTS	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2156	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2151



NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. FGL HAS BEEN ASSUMED AT 52.46 M.
3. WIDTH OF STORM WATER DRAIN HAS BEEN RECOMMENDED AT 300 MM.
4. DRAINS WILL BE COVERED WITH GI GRATING COVERS.
5. SLOPE FOR STORM WATER DRAIN IS 1:500.
6. FOR STANDARD DRAWING REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2161.

LEGEND:-

SL.NO.	DESCRIPTION	SYMBOL
1.	STORM WATER CHANNEL DRAIN	
2.	FLOW DIRECTION	

FGL	- FINISHED GROUND LEVEL
GL	- GROUND LEVEL
IL	- INVERT LEVEL

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

TITLE
LAYOUT PLAN OF DRAINAGE NETWORK
NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE: @A1 1:150	REF.
DRAWING No.: DI1530-RHD-ZZ-NG-DR-M-2151	SUITABILITY: A3	REVISION: P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2152



NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. FINISHED GROUND LEVEL HAS BEEN ASSUMED AT 52.46 M.
3. FIRE NETWORK PIPE WITH DIAMETER OF 150 MM.
4. FOR PUMP HOUSE DRAWING REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2157.
5. FOR STANDARD DRAWING OF FIRE HYDRANT & HOSE CABINET REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2158.

LEGEND:-

SL.NO.	DESCRIPTION	SYMBOL
1.	FIRE WATER PIPE (OVERGROUND)	
2.	FIRE WATER PIPE (UNDERGROUND)	
3.	FIRE HYDRANT	
4.	BUTTERFLY VALVE	

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT

Royal HaskoningDHV
Enhancing Society Together
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

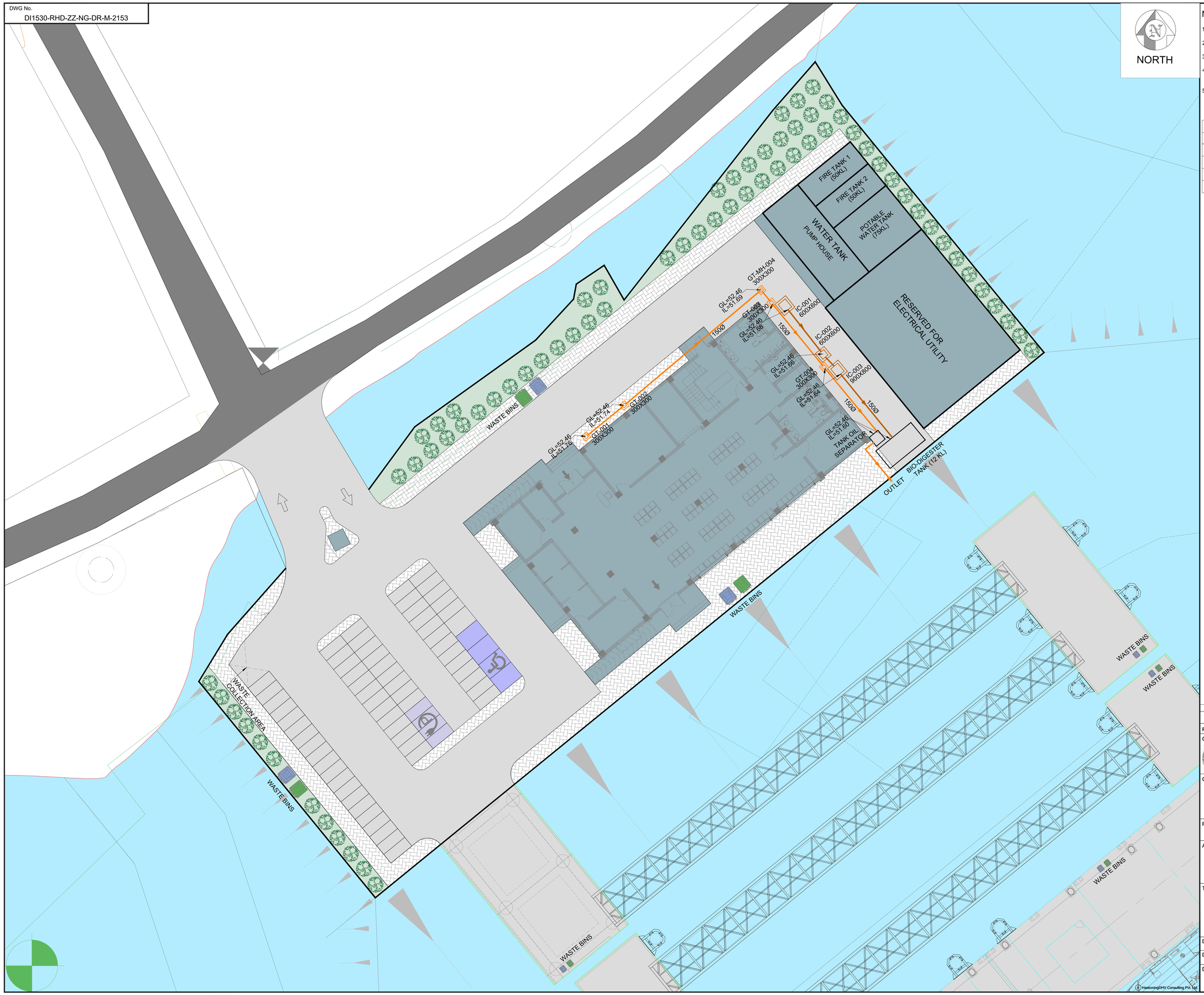
ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

TITLE
LAYOUT PLAN OF FIRE NETWORK
NORTH GUWAHATI

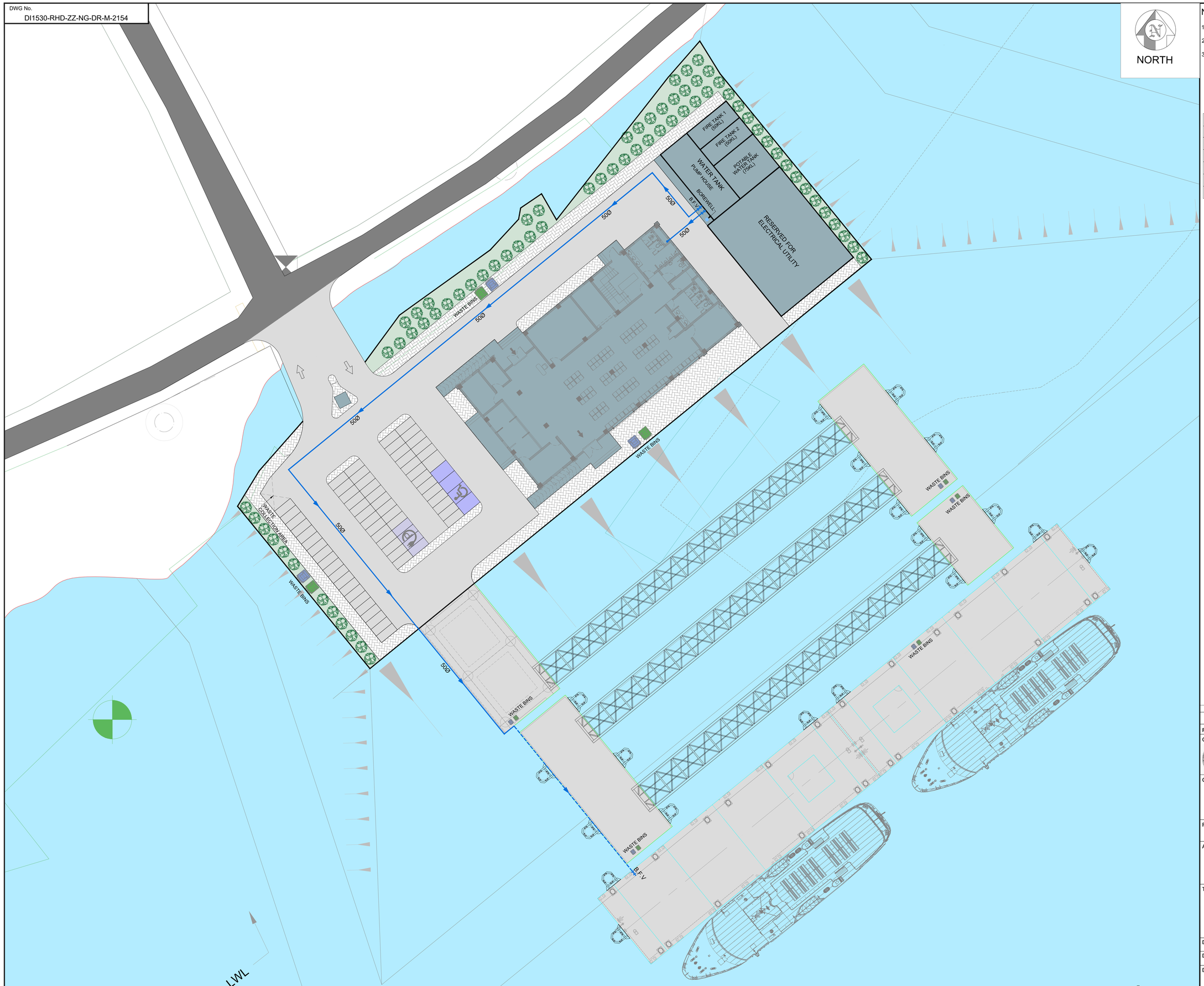
DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE	SCALE	REF.
FEB 2023	@A1 1:150	
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2152	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2153


NORTH
FIRE TANK 1 (50KL)
FIRE TANK 2 (50KL)
POTABLE WATER TANK (75KL)
WATER TANK PUMP HOUSE
RESERVED FOR ELECTRICAL UTILITY
GT-MH-004 300X300
GL=52.46 IL=51.69
GT-003 300X300
GL=52.46 IL=51.68
IC-001 600X600
150Ø
IC-002 600X600
GL=52.46 IL=51.66
GT-004 300X300
GL=52.46 IL=51.64
IC-003 900X900
150Ø
GL=52.46 IL=51.60
TANK OIL SEPARATOR
OUTLET
BIO-DIGESTER TANK (12 KL)
GL=52.46 IL=51.74
GT-002 300X300
GL=52.46 IL=51.76
GT-001 300X300
WASTE BINS
WASTE COLLECTION AREA
Pool
Toilet
Toilet
Toilet

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2154



NORTH

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. FINISHED GROUND LEVEL HAS BEEN ASSUMED AT 52.46 M.
3. FOR PUMP HOUSE CUM WATER TANK DRAWING REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2157.

LEGEND:-

SL.NO.	DESCRIPTION	SYMBOL
1.	POTABLE WATER PIPE (GI PIPE)	
2.	POLYETHYLENE ALUMINIUM PIPE	
3.	FLOW DIRECTION	
4.	BUTTERFLY VALVE	
5.	BOREWELL	

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

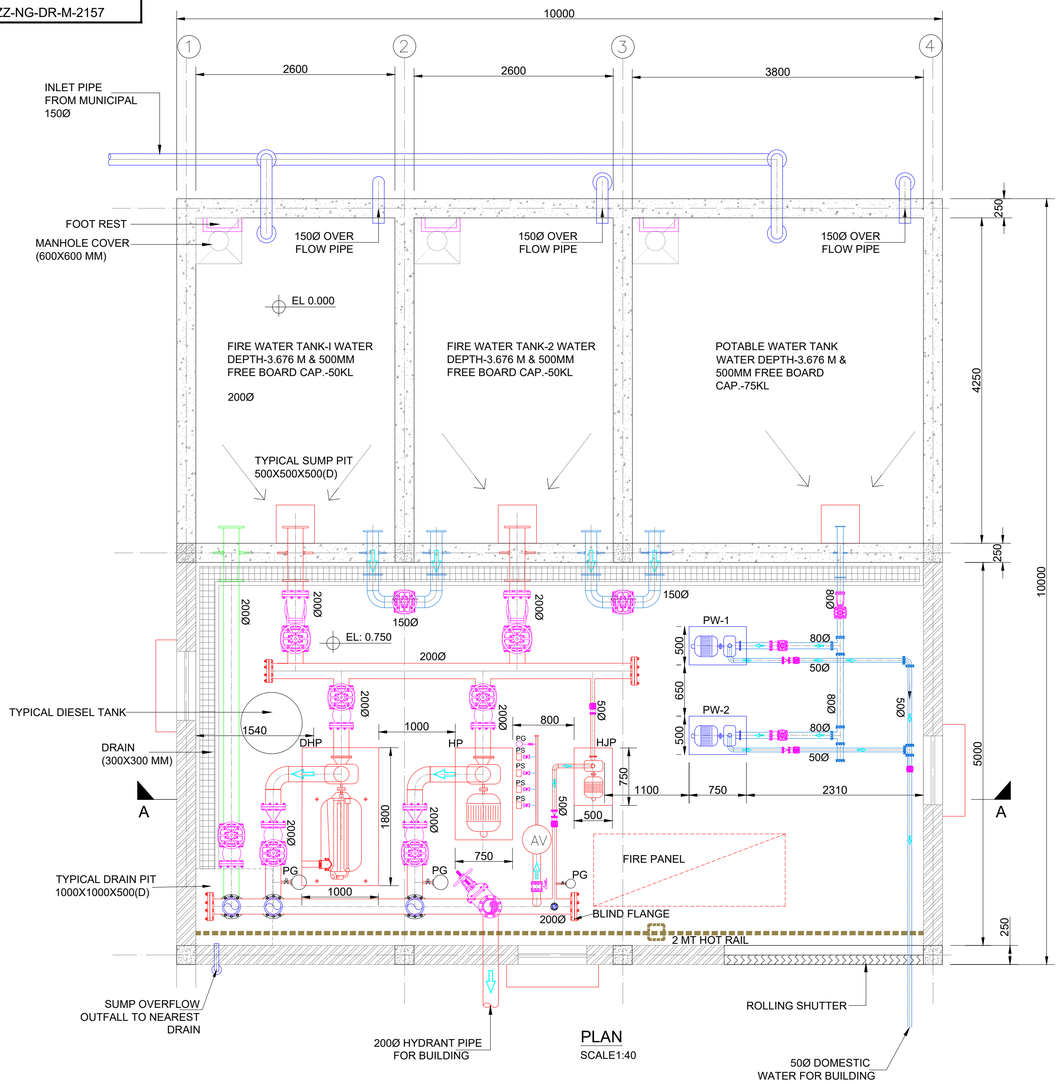
TITLE
LAYOUT PLAN OF POTABLE WATER NETWORK NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A1: 1:200	REF.

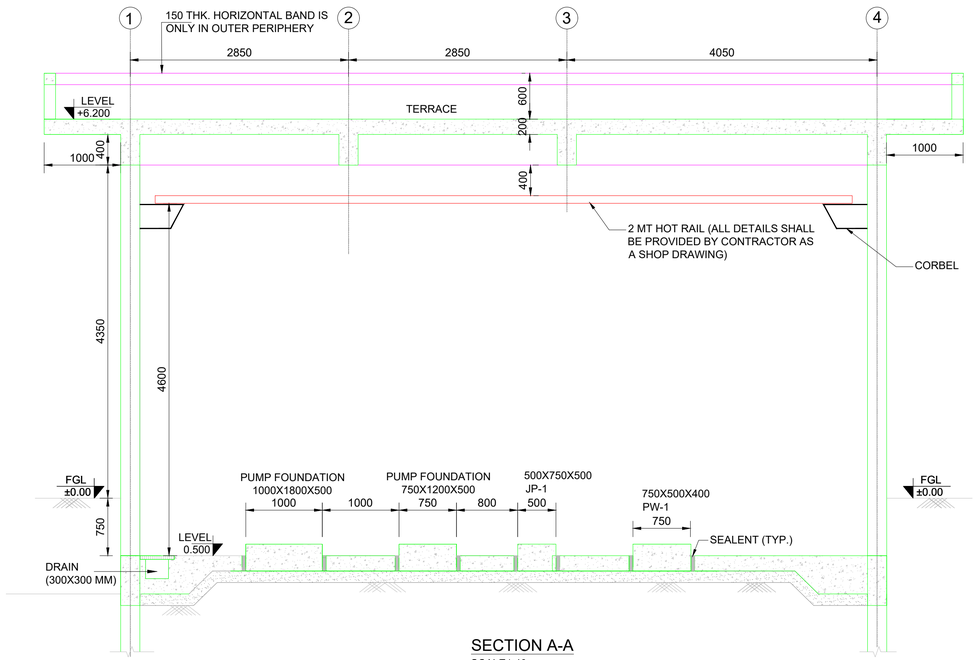
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2154	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2157



PLAN
SCALE1:40



SECTION A-A
SCALE1:40

SCHEDULE OF PUMPS			
ITEM	PUMPS	FLOW (LPM)	QTY.
PW	POTABLE WATER PUMP	350	2(1 WORKING+1 STANDBY)
HP	HYDRANT PUMP	2850	1
HJP	HYDRANT JOCKEY PUMP	180	1
DHP	DIESEL HYDRANT PUMP	2850	1

LEGEND

S.NO.	SYMBOL	DESCRIPTION
1		BUTTERFLY VALVE
2		EXPANSION BELLOWS
3		'Y' STRAINER
4		GATE VALVE
5		NON RETURN VALE
6		BALL VALVE
7	PS	PRESSURE SWITCH
8	PG	PRESSURE GAUGE
9	AV	AIR VESSEL

NOTE:

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METER UNLESS OTHERWISE NOTED.
2. SIZES, LEVELS, POTIONS OF ALL EQUIPMENT SHOWN IN INDICATIVE AND MAY VARY AS PER FINAL EQUIPMENT GA DRAWING OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GET THE APPROVAL OF ALL CONSTRUCTION RELATED DRAWING FROM ENGINEER INCHARGE BEFORE EXECUTION.
4. FGL ASSUMED AS 52.46M, THE LEVELS WILL BE ADDED AS PER PROPOSED LEVELS.
5. FOR FIRE LAYOUT REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2152.
6. FOR WATER SUPPLY LAYOUT REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2154.

ABBREVIATIONS :-

FGL - FINISH GROUND LEVEL
EL - ELEVATION
W - WINDOWS
HOT - HAND OPERATED TRAVELING CRANE
MT - METRIC TON

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

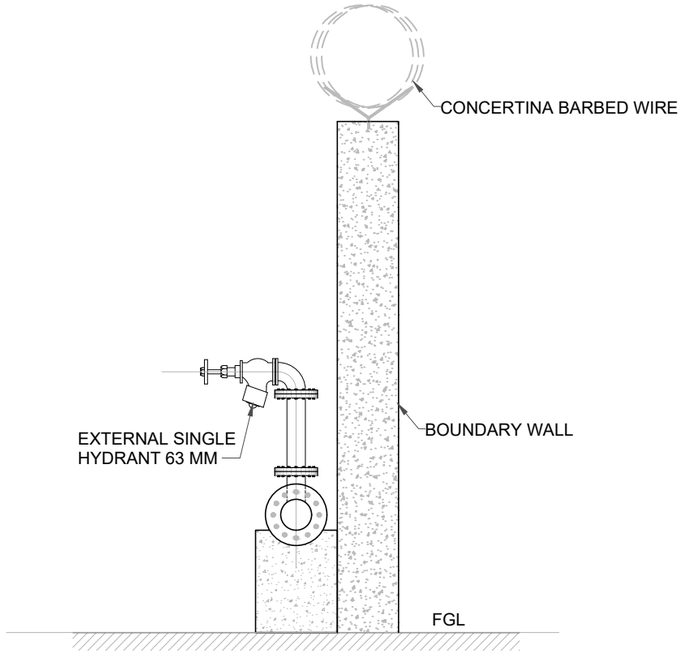
TITLE
GENERAL ARRANGEMENT OF FIRE TANK CUM PUMP HOUSE NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A1: 1:40	REF.

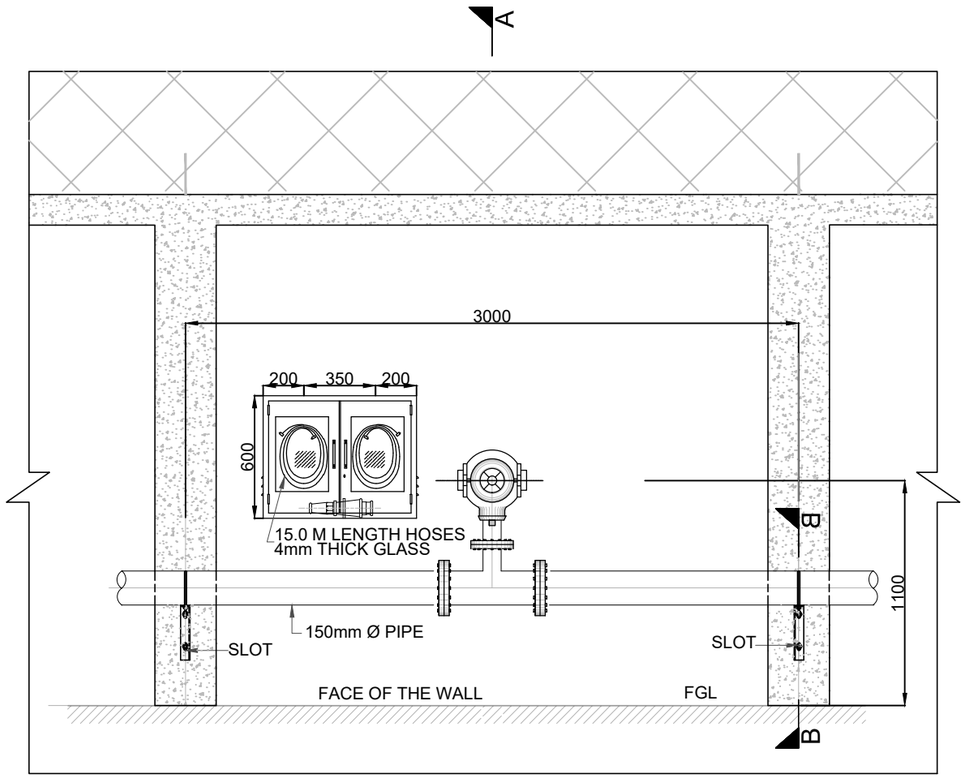
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2157	A3	P01

© HaskoningDHV Consulting Pvt. Ltd

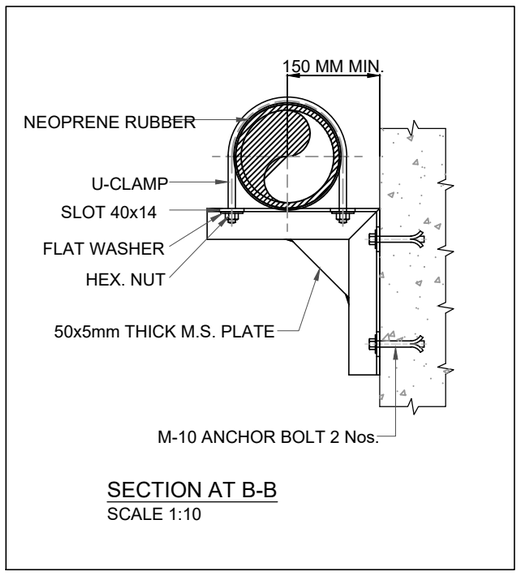
DWG No.
DI1530-RHD-ZZ-NG-DR-M-2158



TYP. SECTION AT A-A OF HYDRANT
WITH MAIN PIPING ALONG THE WALL
SCALE 1:30

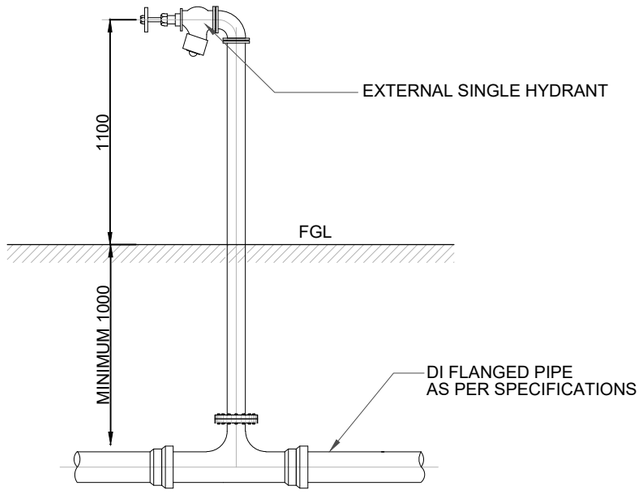


FRONT ELEVATION OF FIRE HYDRANT WITH OVERGROUND PIPING
SCALE 1:30



SECTION AT B-B
SCALE 1:10

A



FRONT ELEVATION OF FIRE HYDRANT VALVE WITH UNDERGROUND PIPING
SCALE 1:30

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
2. ALL DETAILS TO BE READ IN CONJUNCTION WITH SPECIFICATION.
3. ALL BACKFILL AND EMBEDMENT SHALL BE COMPACTED TO 95% OF PROCTOR DENSITY AS PER SPECIFICATION.
4. STRUCTURE SHALL BE FOUNDED ON FIRM GROUND. ANY LOOSE FILL UNDERNEATH STRUCTURE SHALL BE REPLACED BY P.C.C BEFORE INSTALLATION OF STRUCTURE.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

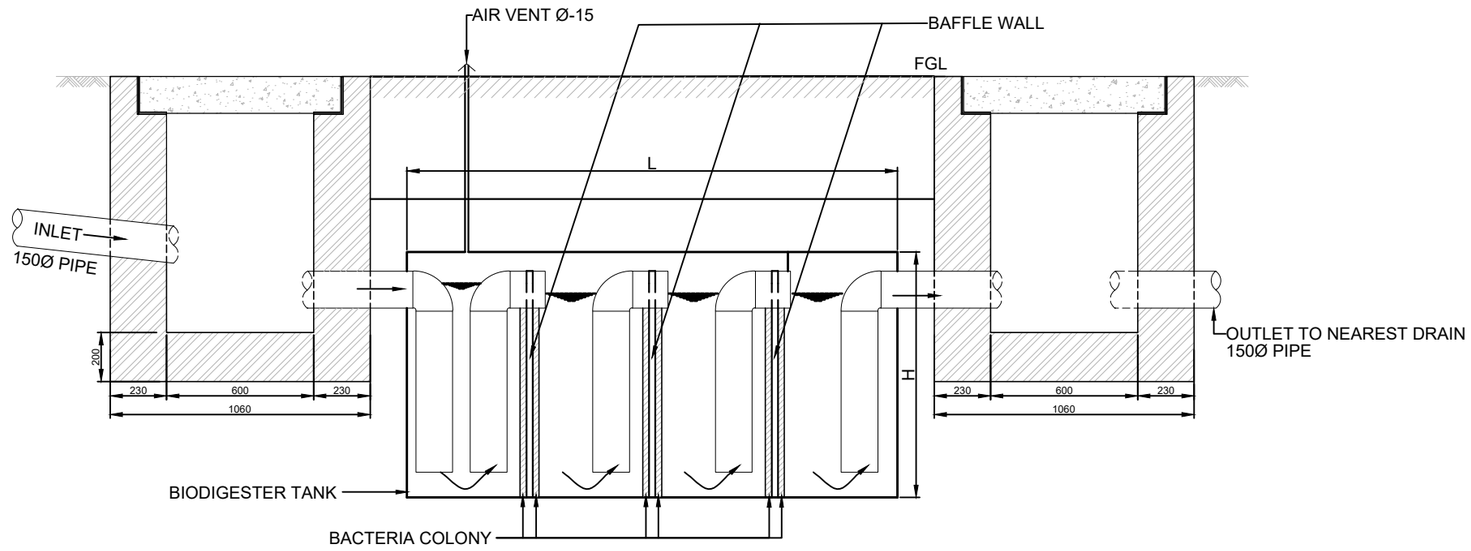
TITLE
STANDARD DRAWING OF FIRE HYDRANT & HOSE CABINET NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A3: AS SHOWN	REF.

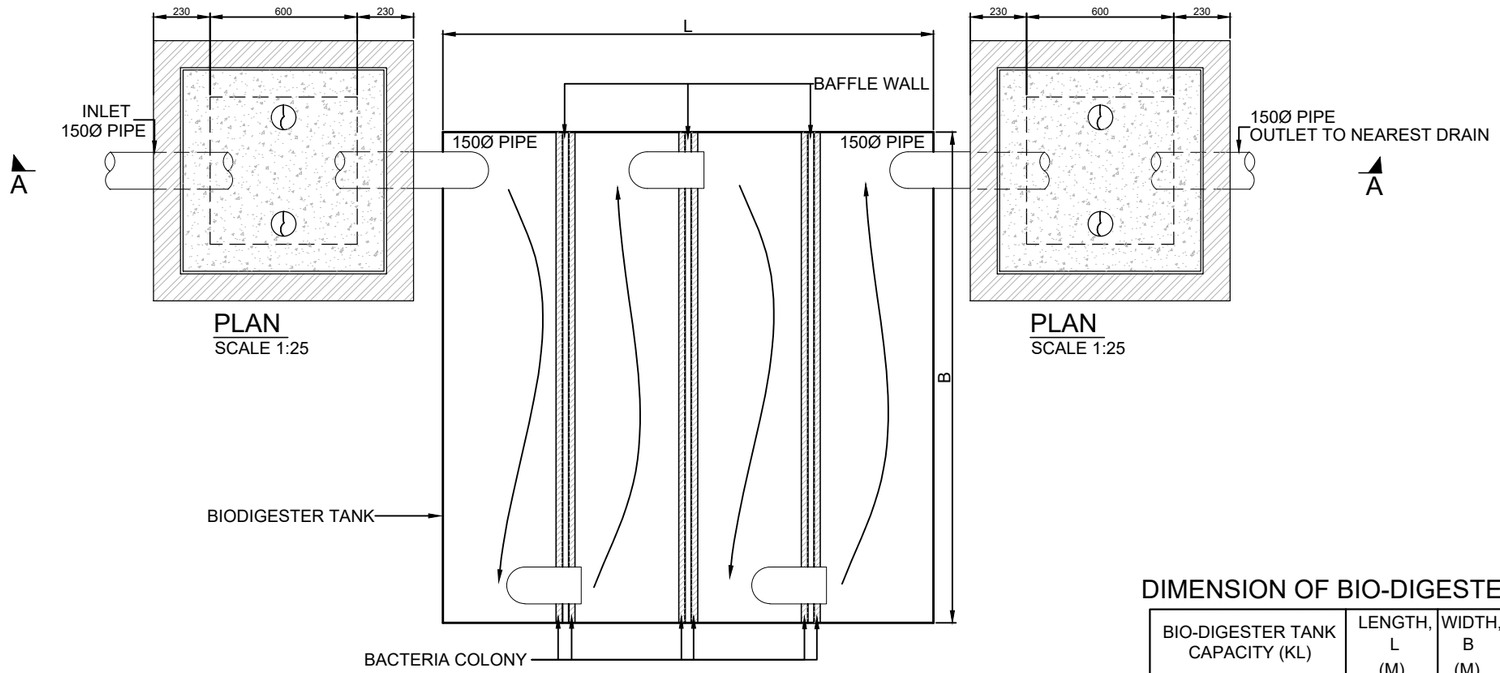
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2158	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2159



PROFILE VIEW



PLAN
SCALE 1:25

PLAN
SCALE 1:25

PLAN VIEW
BIODIGESTER TANK

DIMENSION OF BIO-DIGESTER TANK

BIO-DIGESTER TANK CAPACITY (KL)	LENGTH, L (M)	WIDTH, B (M)	HEIGHT, H (M)
4	2	2	1
5	2.5	2	1
12	4	2	1.5

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES RELATIVE TO MEAN SEA LEVEL (MSL)
3. ALL BACKFILL AND EMBEDMENT SHALL BE COMPACTED TO 95% OF PROCTOR DENSITY AS PER SPECIFICATION.
4. STRUCTURE SHALL BE FOUNDED ON FIRM GROUND. ANY LOOSE FILL UNDERNEATH STRUCTURE SHALL BE REPLACED BY P.C.C BEFORE INSTALLATION OF STRUCTURE.
5. ALL DETAILS/ DIMENSIONS ARE INDICATIVE AND WILL BE CONFIRMED BY THE CONTRACTOR TO OBTAIN APPROVAL FROM THE ENGINEER.
6. FOR SEWERAGE NETWORK REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2153.

ABBREVIATIONS :-

FGL - FINISH GROUND LEVEL

SFRC - STEEL FIBER REINFORCED COVER

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

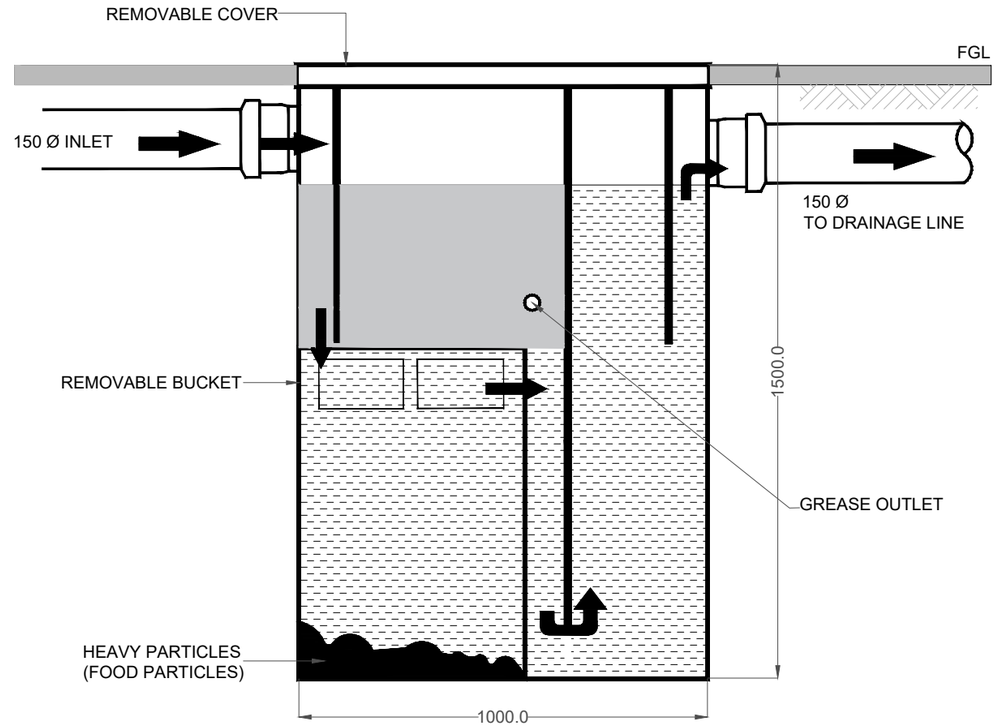
TITLE
STANDARD DRAWING OF SEWER MANHOLE CHAMBER AND BIO-DIGESTER TANK NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A3: 1:25	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2159	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2160



SECTION OF OIL SEPARATOR

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES RELATIVE TO MEAN SEA LEVEL (MSL)
3. ALL BACKFILL AND EMBEDMENT SHALL BE COMPACTED TO 95% OF PROCTOR DENSITY AS PER SPECIFICATION.
4. STRUCTURE SHALL BE FOUNDED ON FIRM GROUND. ANY LOOSE FILL UNDERNEATH STRUCTURE SHALL BE REPLACED BY P.C.C BEFORE INSTALLATION OF STRUCTURE.
5. ALL DETAILS/ DIMENSIONS ARE INDICATIVE AND WILL BE CONFIRMED BY THE CONTRACTOR TO OBTAIN APPROVAL FROM THE ENGINEER.
6. FOR WASTE / GREY WATER NETWORK REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2153.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

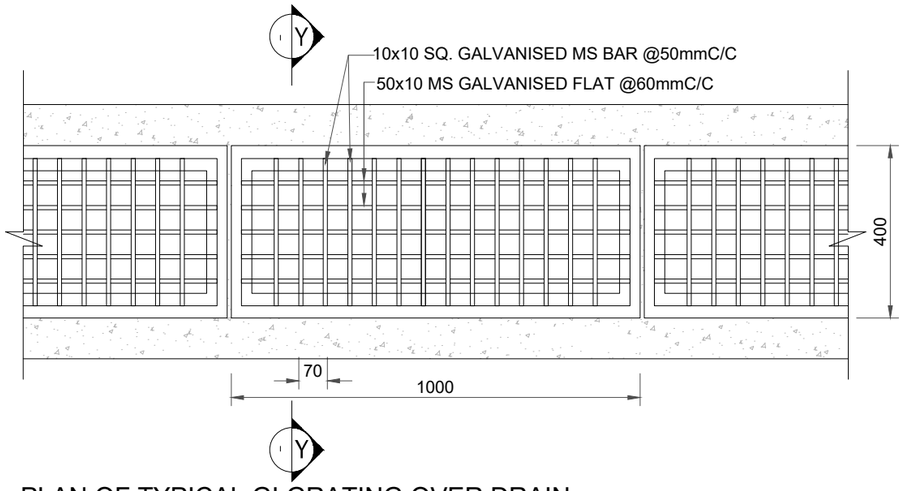
TITLE
STANDARD DRAWING FOR OIL SEPARATOR NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A3: 1:10	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2160	A3	P01

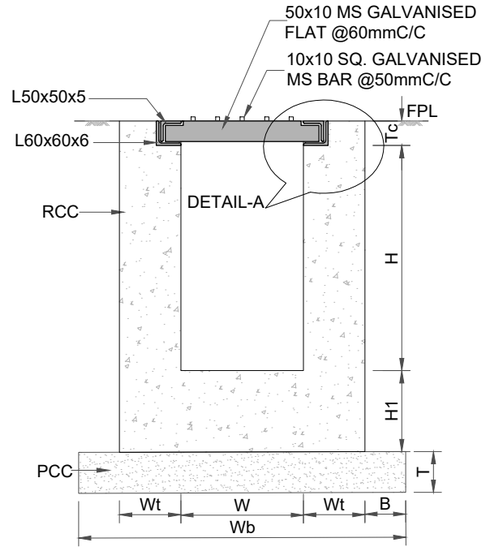
© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2161



PLAN OF TYPICAL GI GRATING OVER DRAIN UPTO 400 WIDE

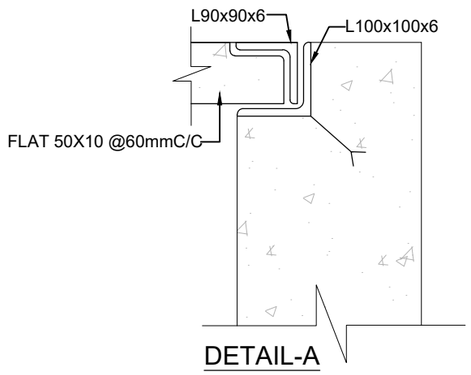
SCALE 1:15



SECTION Y-Y OF CHANNEL DRAIN UP TO 400 WIDE

SCALE 1:15

DRAIN SECTION DETAIL						
DRAIN SIZE		THICKNESS OF WALL, Wt (mm)	B (mm)	THICKNESS OF P.C.C, T (mm)	BASE SLAB THICKNESS, H1 (mm)	TOP GRATING THICKNESS, Tc (mm)
WIDTH, W (mm)	HEIGHT, H (mm)					
300-600	300-1000	100	75	100	100	100



DETAIL-A

SCALE 1:5

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL).
3. ALL BACKFILL AND EMBEDMENT SHALL BE COMPACTED TO 95% OF PROCTOR DENSITY AS PER SPECIFICATION.
4. STRUCTURE SHALL BE FOUNDED ON FIRM GROUND. ANY LOOSE FILL UNDERNEATH STRUCTURE SHALL BE REPLACED BY P.C.C BEFORE INSTALLATION OF STRUCTURE.
5. MINIMUM GRADE OF PCC SHALL BE M10
6. MINIMUM GRADE OF RCC SHALL BE M25
7. STRUCTURE SHALL BE FOUNDED ON FIRM GROUND. ANY LOOSE FILL UNDERNEATH STRUCTURE SHALL BE REPLACED BY PCC BEFORE INSTALLATION OF STRUCTURE.
8. MAXIMUM AXLE LOAD OF ACCESSIBLE VEHICULAR MOVEMENT IS CONSIDERED AS 16 TONNE.
9. ALL EMBEDDED FRAMES IN GALVANIZED STEEL.
10. FOR LAYOUT OF STORM WATER DRAINS REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2151,
11. ALL EXPOSED STEEL SHALL BE GALVANISED AS PER PROJECT SPECIFICATIONS.

ABBREVIATIONS :-

FPL - FINISHED PAVEMENT LEVEL
RCC - REINFORCED CEMENT CONCRETE
PCC - PLAIN CEMENT CONCRETE

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	RN	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

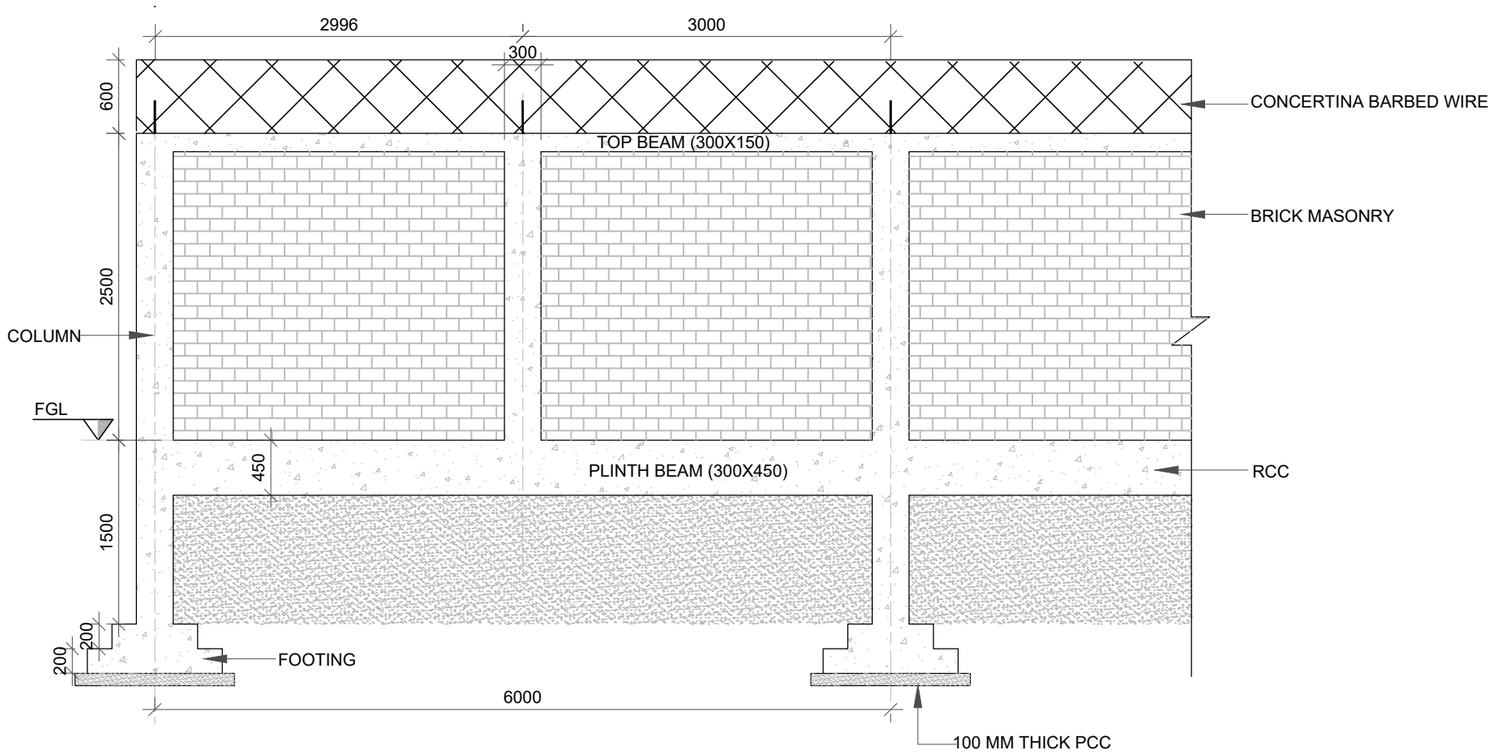
TITLE
STANDARD DRAWING OF STORM WATER DRAIN NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
RN	BB	AK
DATE: FEB 2023	SCALE @A3: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2161	A3	P01

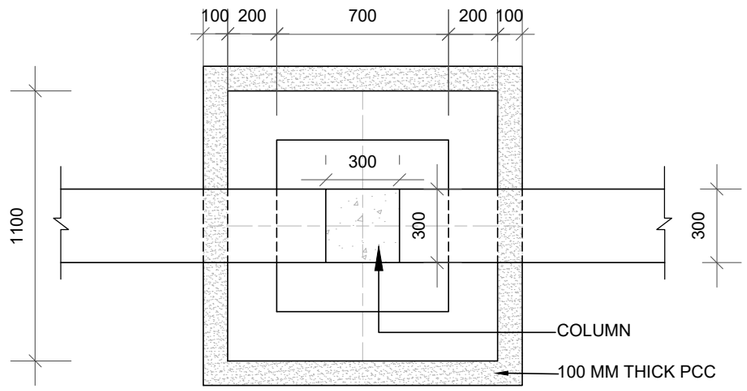
© HaskoningDHV Consulting Pvt. Ltd.

DWG No.
DI1530-RHD-ZZ-NG-DR-M-2162



BOUNDARY WALL DETAILS

SCALE 1:50



FOOTING PLAN

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
2. FGL SHALL BE MINIMUM 1 M ABOVE HFL.
3. ANY EXTRA CUTTING OF SOIL AT THE BOTTOM SHALL BE BACK FILLED AND LEVELED WITH PCC ONLY.
4. EMBEDMENT MATERIAL SHALL CONFIRM TO IS 13916:1994. ALL BACKFILL AND EMBEDMENT SHALL BE COMPACTED TO 95% OF PROCTOR DENSITY.
5. MINIMUM GRADE OF PCC SHALL BE M10.
6. MINIMUM GRADE OF RCC SHALL BE M25.
7. REINFORCEMENT GRADE OF FE-500D STRENGTH DEFORM BAR SHALL BE USED FOR ALL THE R.C.C WORKS.

ABBREVIATIONS :-

FGL - FINISHED GROUND LEVEL
RCC - REINFORCED CEMENT CONCRETE
PCC - PLAIN CEMENT CONCRETE
PB - PLINTH BEAM

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	AP	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

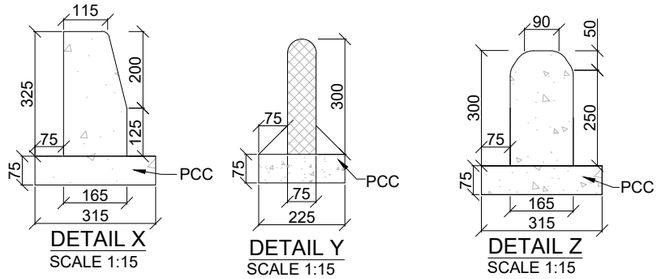
TITLE
STANDARD DRAWING OF BOUNDARY WALL
NORTH GUWAHATI

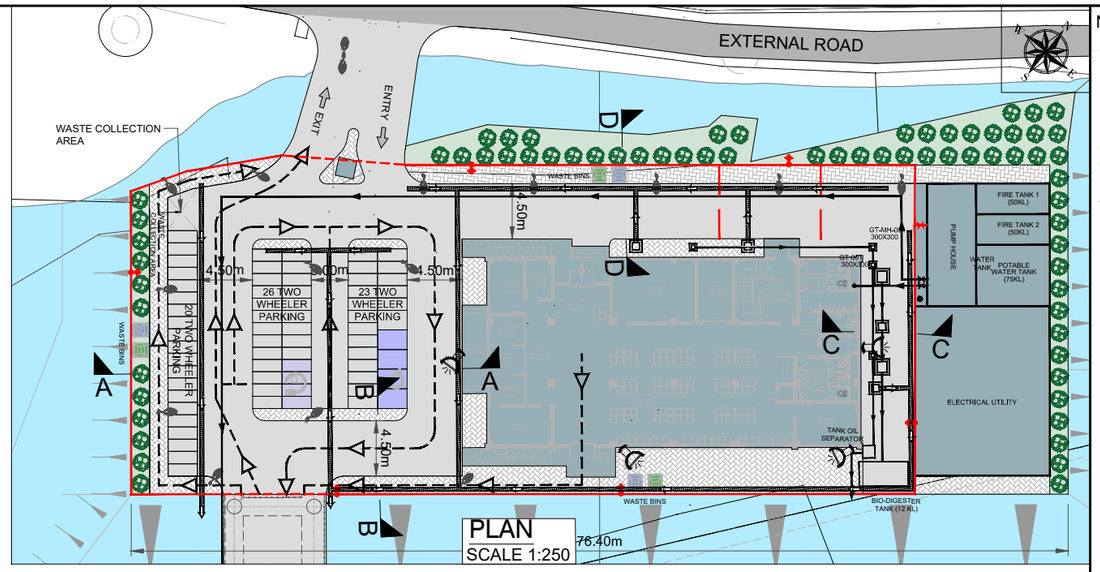
DRAWN	CHECKED	APPROVED
AP	BB	AK
DATE: FEB 2023	SCALE @A3: AS SHOWN	REF.

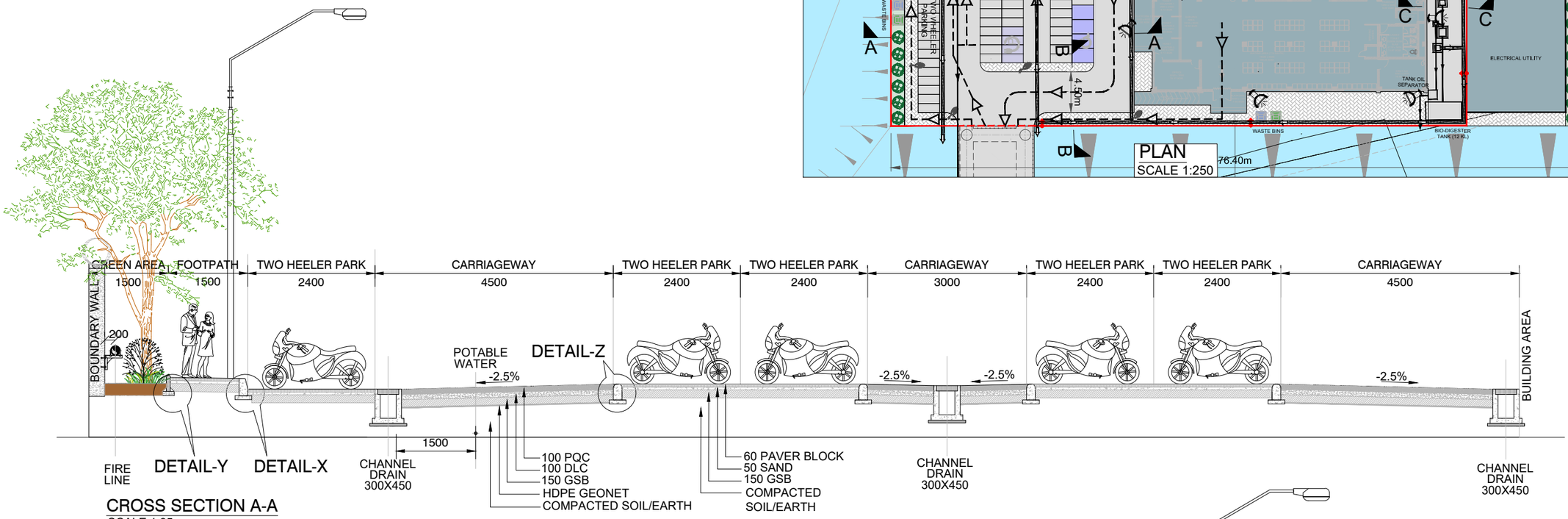
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2162	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

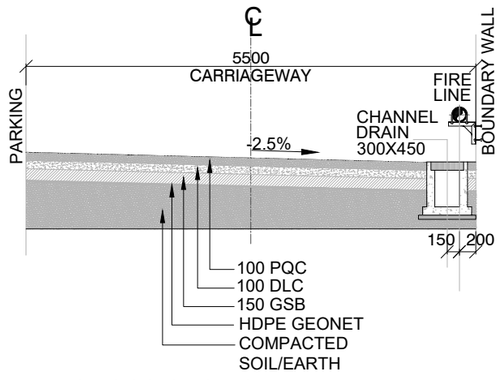
DWG No.
DI1530-RHD-ZZ-NG-DR-M-2163



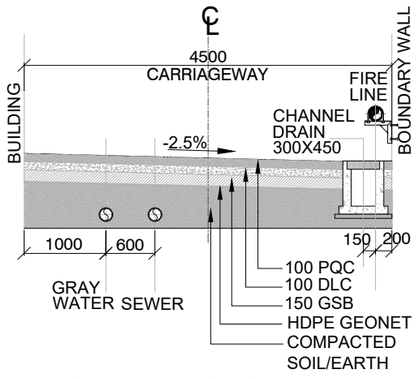




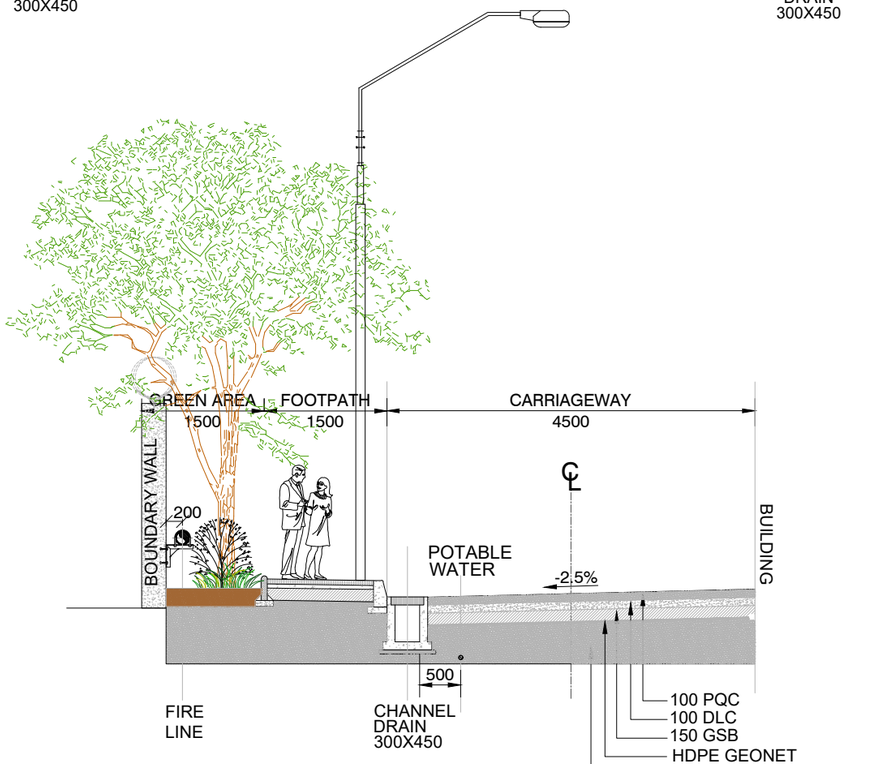
CROSS SECTION A-A
SCALE 1:85



CROSS SECTION B-B
SCALE 1:75



CROSS SECTION C-C
SCALE 1:75



CROSS SECTION D-D
SCALE 1:75

© HaskoningDHV Consulting Pvt. Ltd.

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
   PQC - PAVEMENT QUALITY CONCRETE
   DLC - DRY LEAN CONCRETE
   GSB - GRANULAR SUB BASE
   PCC- PLAIN CEMENT CONCRETE
2. LAYER COMPOSITION IS SAME FOR PARKING AND FOOTPATH
3. FOR DRAINAGE ARRANGEMENT REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-M-2151.
4. FOR DETAILS OF STREET LIGHT POLES REFER DRAWING NO. DI1530-RHD-ZZ-NG-DR-E-2155.

FOR TENDER
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
P01	10/02/23	ISSUED FOR TENDER	RN	BB	AK

REVISIONS

CLIENT
ASSAM INLAND WATER TRANSPORT DEVELOPMENT SOCIETY (AIWTDS)

CONSULTANT
Royal HaskoningDHV
Enhancing Society Together

PROJECT
ASSAM INLAND WATER TRANSPORT PROJECT (AIWTP)

ASSIGNMENT
PREPARATION OF DPR ALONG WITH ENGINEERING DESIGN, DRAWINGS,TENDER DOCUMENTS FOR CONSTRUCTION OF MODULAR TERMINAL AT FERRY SERVICES OF NW-2 AND NW-16 IN ASSAM

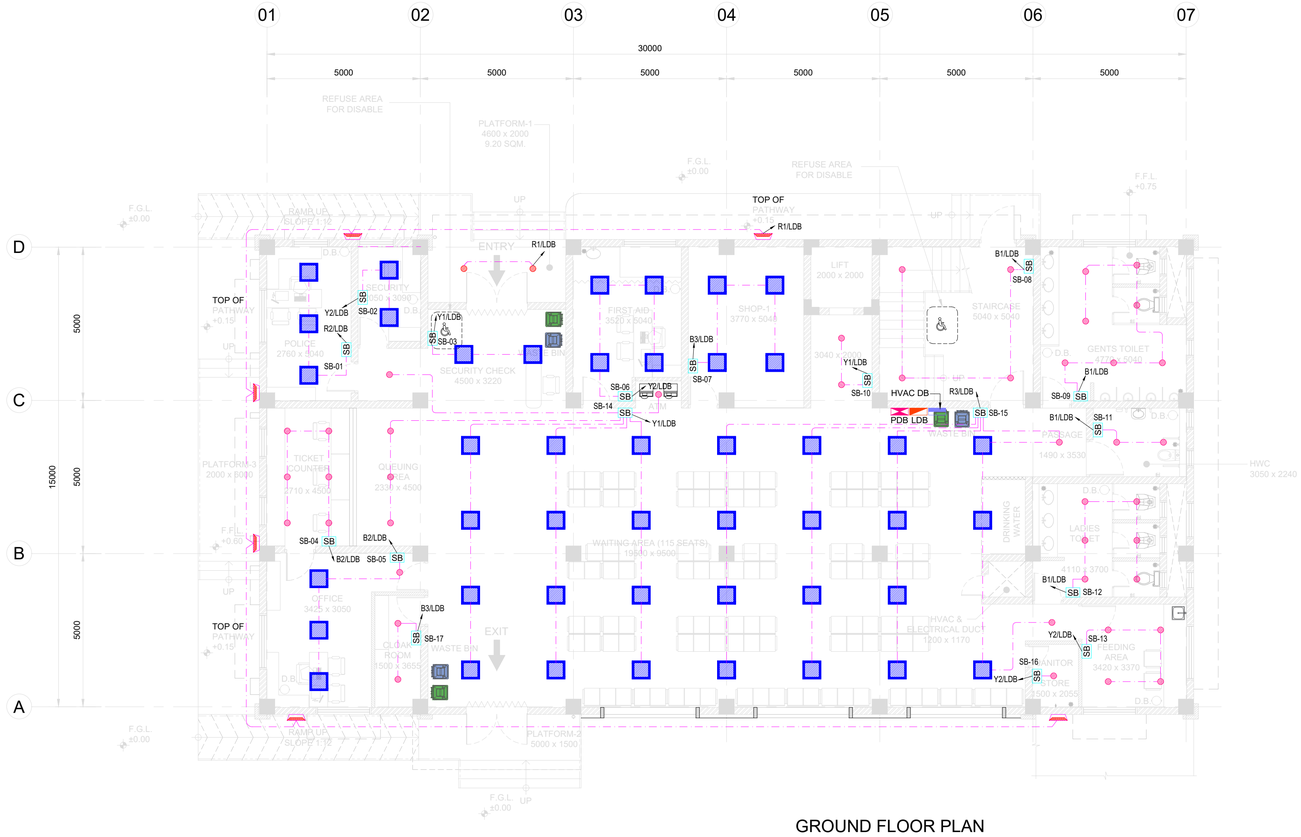
TITLE
ROAD CROSS SECTION WITH SITE PLAN NORTH GUWAHATI

DRAWN	CHECKED	APPROVED
RN	BB	AK
DATE	SCALE	REF.
FEB 2023	@A3 AS SHOWN	

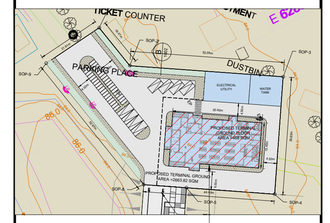
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2163	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2176

DO NOT SCALE



GROUND FLOOR PLAN
SCALE 1:100



KEY PLAN

LEGEND:

- RECESS PANEL LIGHT
- DOWN LIGHTER
- DOWN LIGHTER
- LED FLOOD LIGHT
- LED BATTEN
- SB — LIGHT CONTROL SWITCHBOARD
- POWER DISTRIBUTION BOARD
- LIGHTING DISTRIBUTION BOARD
- HVAC DB
- CONTROL WIRE

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
3rd Floor, Plot 17 & 18, Sector 30 A, Vashi, Navi Mumbai – 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
GROUND FLOOR
LIGHTING LAYOUT

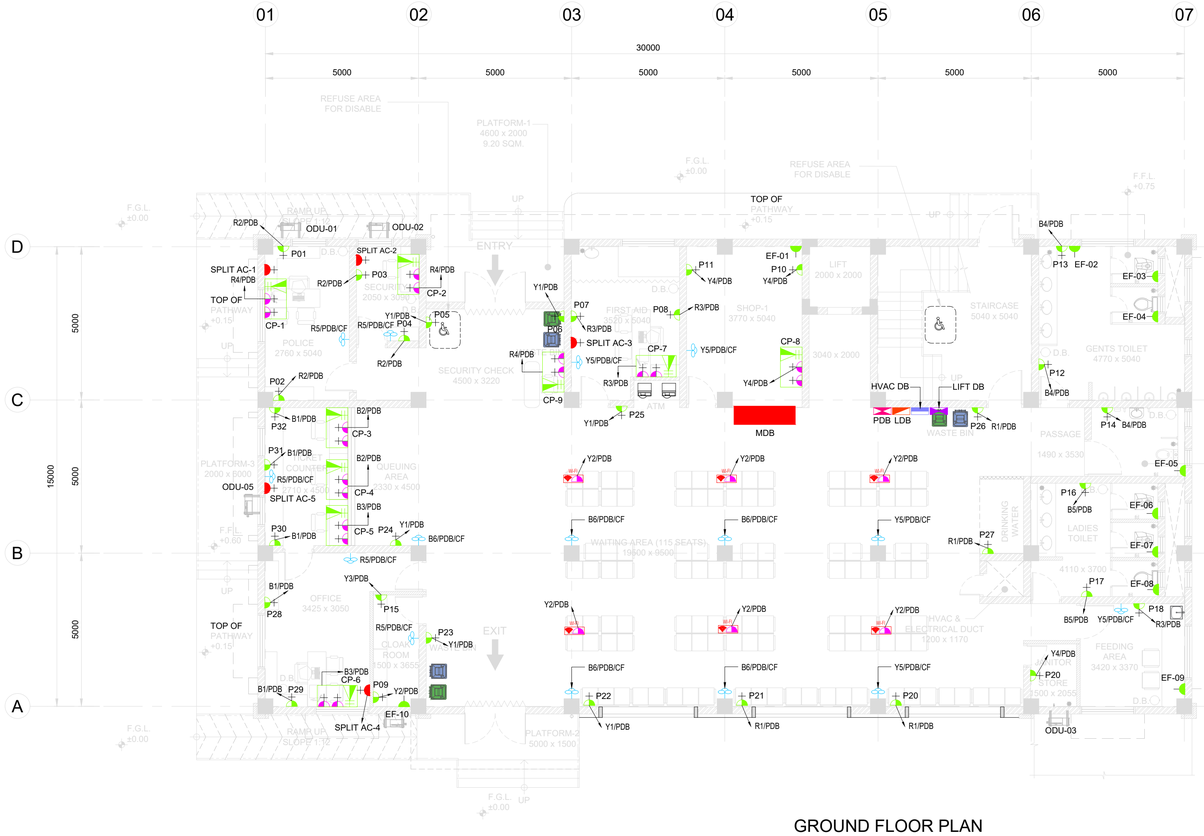
DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	-

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2176	A3	P01

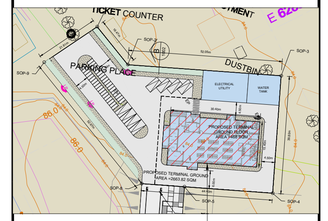
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2177

DO NOT SCALE



GROUND FLOOR PLAN
SCALE 1:100



KEY PLAN

LEGEND:

- EXHAUST FAN POWER SOCKET OUTLET
- 6 A/16 A POWER SOCKET
- SPLIT AC POWER SOCKET
- DUPLEX OUTLET (1-port TEL + 1 port DATA) 2x6A/16A, SOCKET OUTLET
- POWER DISTRIBUTION BOARD
- LIGHTING DISTRIBUTION BOARD
- HVAC DB
- LIFT DB
- MDB
- WI-FI — WIFI POINT (1 PORT DATA + 1X6A/16A, SOCKET OUTLET)
- ELECTRICAL POWER CKT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
GROUND FLOOR
SMALL POWER LAYOUT

DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	-

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2177	A3	P01

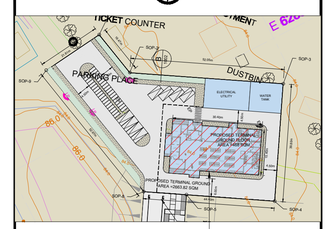
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2178

DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:100



TERMINAL BUILDING

KEY PLAN

LEGEND:

- RECESS PANEL LIGHT
- DOWN LIGHTER
- DOWN LIGHTER
- LED FLOOD LIGHT
- LED BATTEN
- SB — LIGHT CONTROL SWITCHBOARD
- POWER DISTRIBUTION BOARD
- LIGHTING DISTRIBUTION BOARD
- HVAC DB
- CONTROL WIRE

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
902-A/B, 9th Floor, Rustomjee Technic Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
FIRST FLOOR
LIGHTING LAYOUT

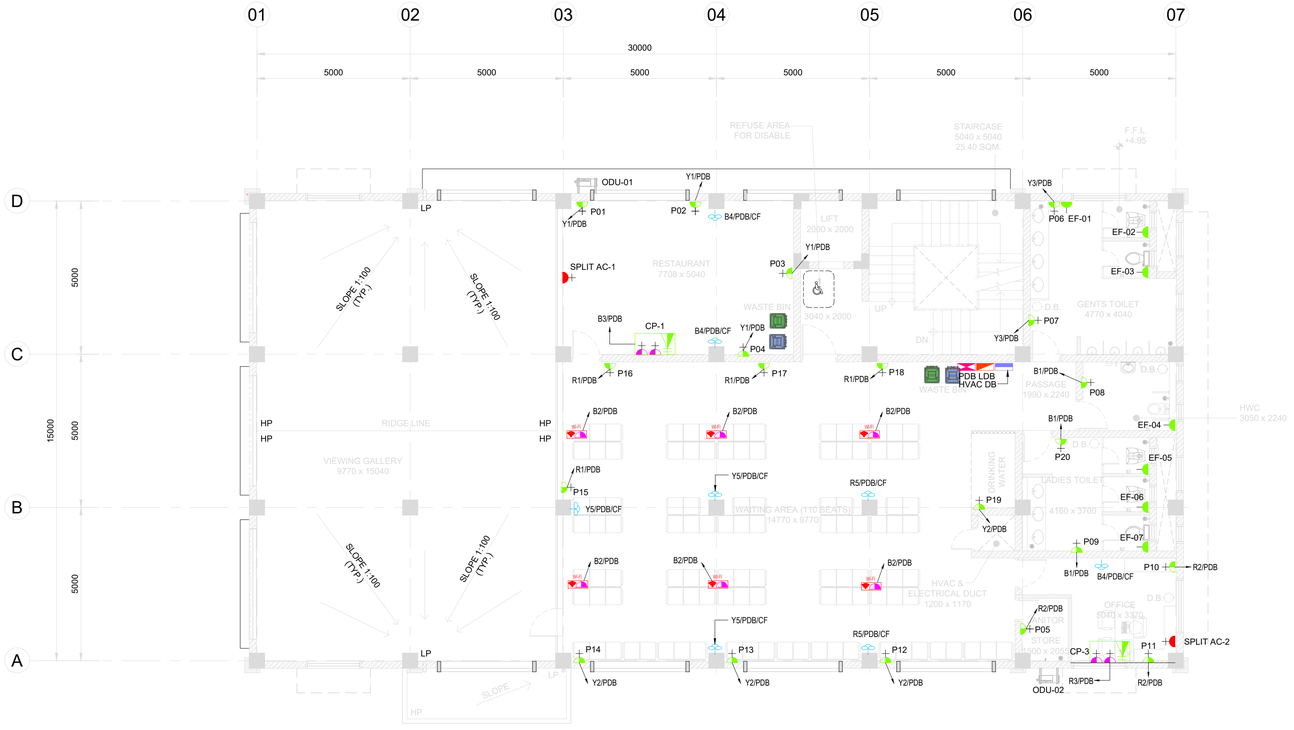
DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE	SCALE	REF.
FEB 2023	@A1 AS SHOWN	-

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2178	A3	P01

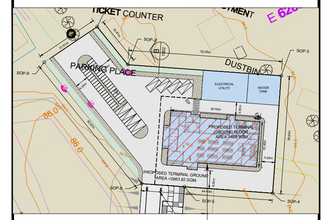
© HaskoningDHV Consulting Pvt. Ltd

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2179

DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:100



KEY PLAN

LEGEND:

- EXHAUST FAN POWER SOCKET OUTLET
- 6 A/16 A POWER SOCKET
- SPLIT AC POWER SOCKET
- DUPLEX OUTLET (1-port TEL + 1 port DATA) 2x6A/16A, SOCKET OUTLET
- POWER DISTRIBUTION BOARD
- LIGHTING DISTRIBUTION BOARD
- HVAC DB
- WIFI POINT (1 PORT DATA + 1X6A/16A, SOCKET OUTLET)
- ELECTRICAL POWER CKT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
FIRST FLOOR
SMALL POWER LAYOUT

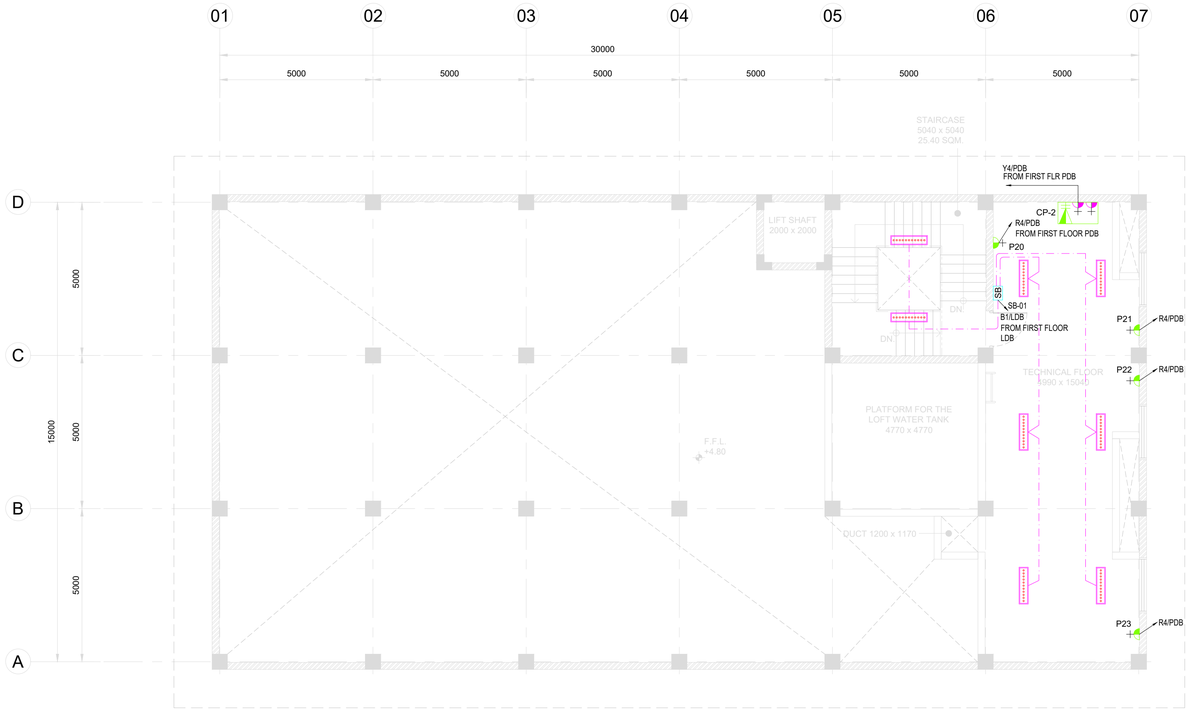
DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	-

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2179	A3	P01

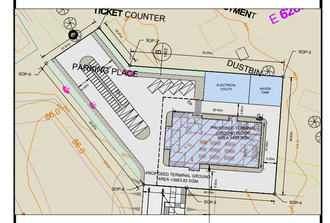
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2180

DO NOT SCALE



TECHNICAL FLOOR PLAN
SCALE 1:100



TERMINAL BUILDING

KEY PLAN

LEGEND:

- 38W LED BATTEN
- 6 A/16 A POWER SOCKET
- DUPLEX OUTLET (1-port TEL + 1 port DATA) 2x6A/16A, SOCKET OUTLET
- SB — LIGHT CONTROL SWITCHBOARD
- CONTROL WIRE

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Raheja Fortune,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
TECHNICAL FLOOR
LIGHTING & SMALL POWER LAYOUT

DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2180	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2181

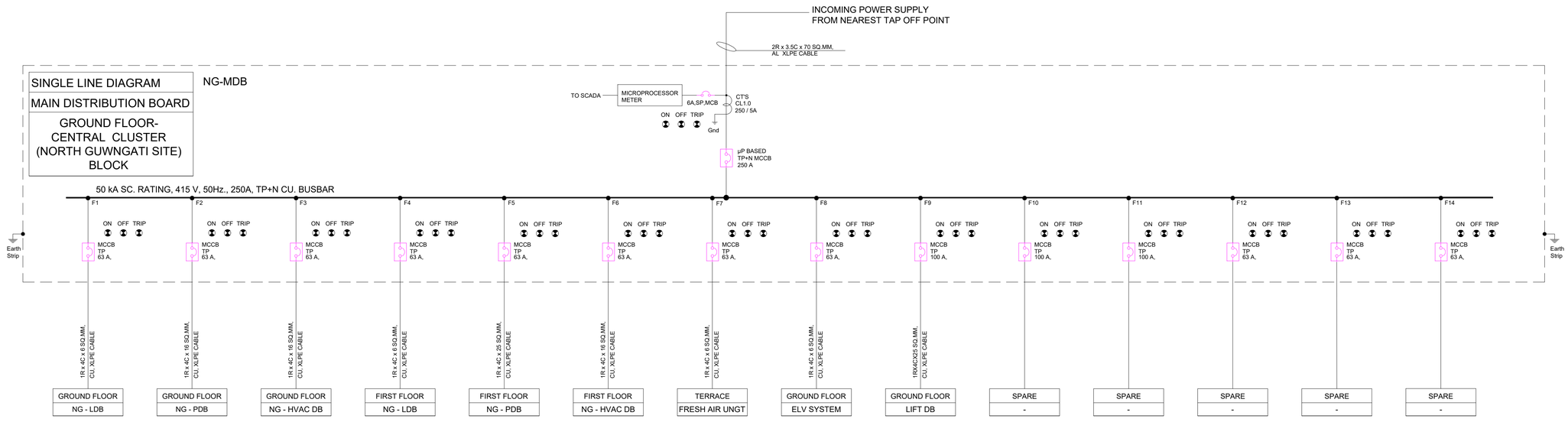
DO NOT SCALE

SINGLE LINE DIAGRAM

MAIN DISTRIBUTION BOARD

GROUND FLOOR-
CENTRAL CLUSTER
(NORTH GUWNGATI SITE)
BLOCK

NG-MDB



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS , UNLESS NOTED OTHERWISE.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	MCB CIRCUIT BREAKER
Gnd	CURRENT TRANSFORMER
ON OFF TRIP	INDICATION LAMPS
	FIXED TYPE MCCB BREAKER
	EARTHING OR GROUND

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
5th Floor, 6th Floor, Runwal Tech Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
MAIN SINGLE LINE DIAGRAM

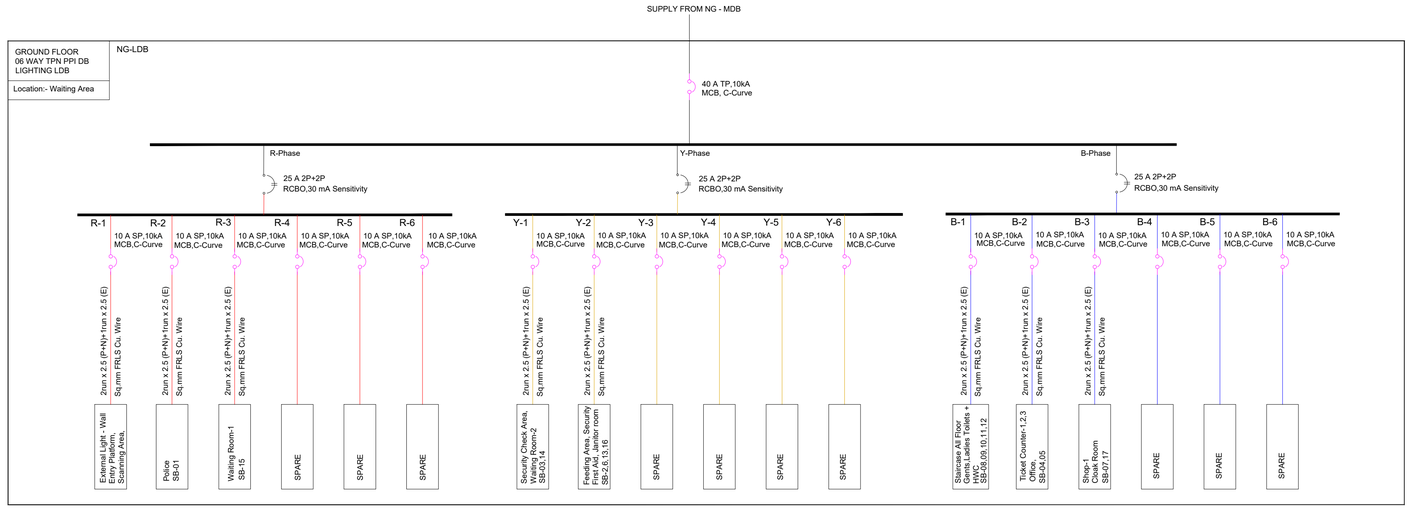
DRAWN	CHECKED	APPROVED
SH	BAP	RVC
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	-

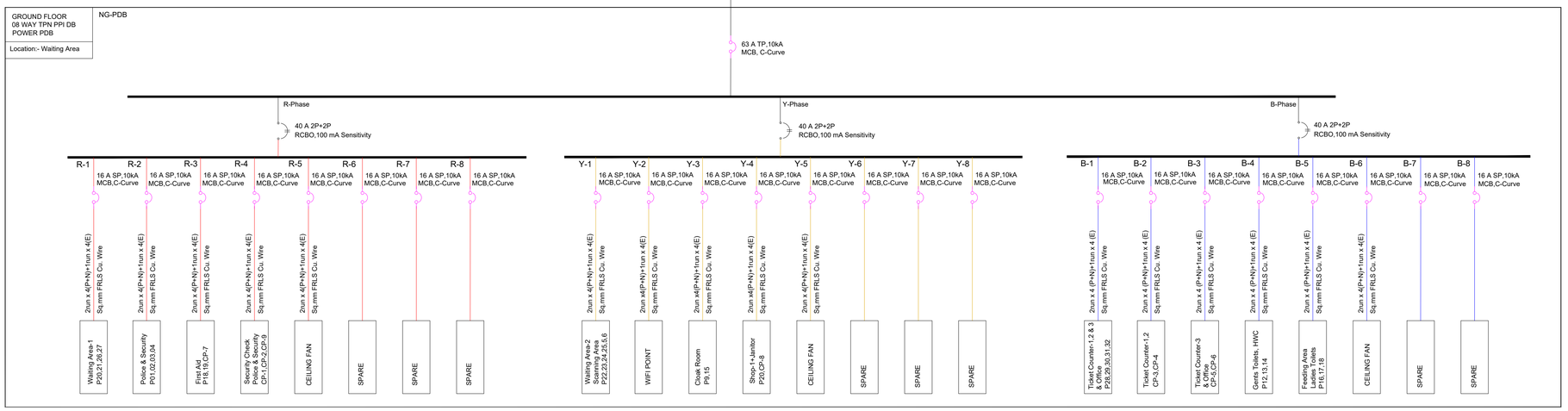
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2181	A3	P01

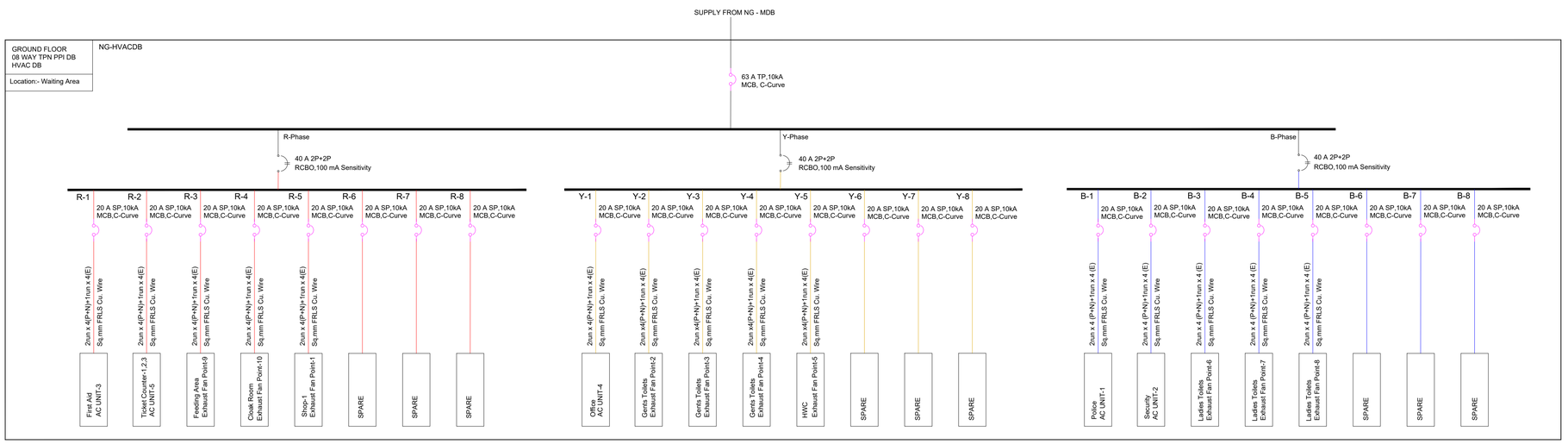
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2182

DO NOT SCALE







LEGEND:

MINIATURE CIRCUIT BREAKER

RESIDUAL CURRENT BREAKER WITH OVERLOAD

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
5th Floor, Tile A Wing, Raheja Mindspace, Plot 17 & 18, Sector 30 A, Vashi, Navi Mumbai – 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
GROUND FLOOR
LIGHTING & POWER
SINGLE LINE DIAGRAM

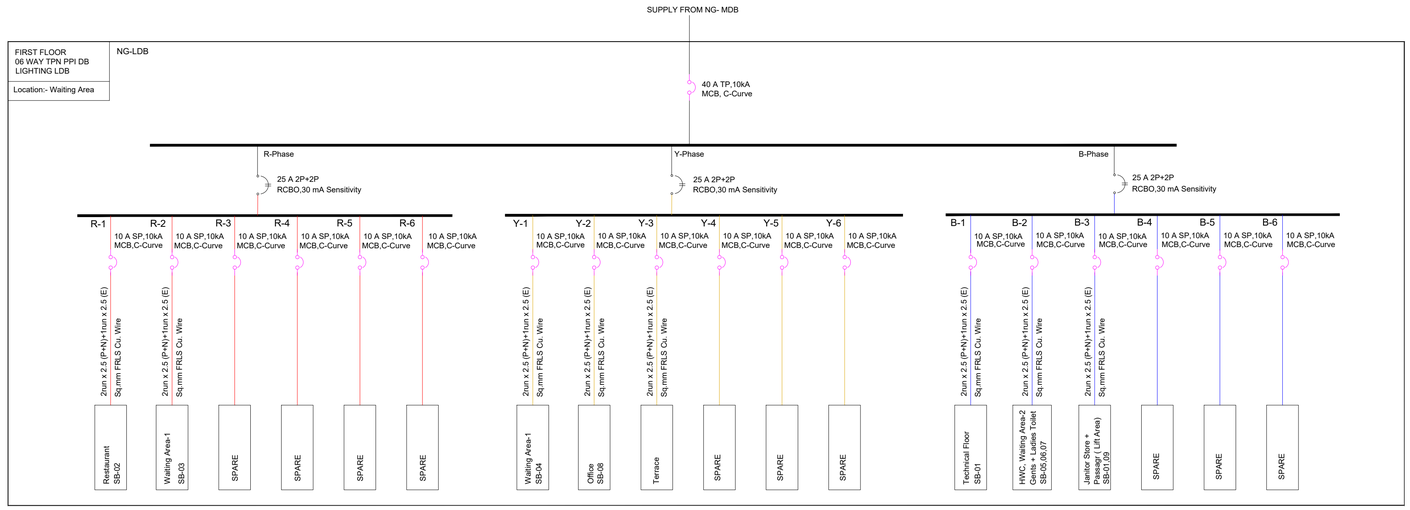
DRAWN	CHECKED	APPROVED
PPP	BAP	RVC
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

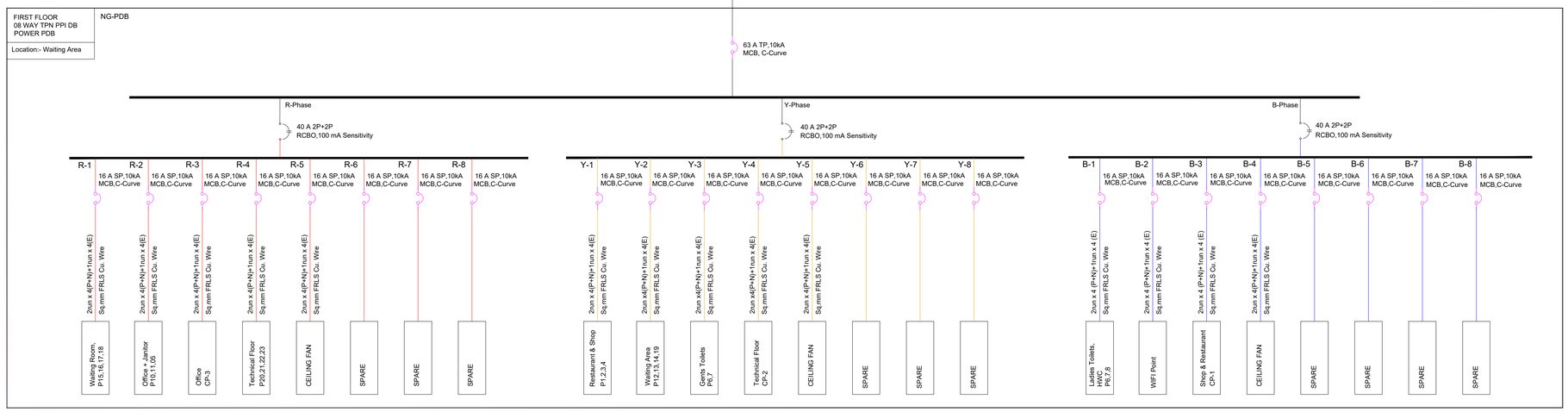
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2182	A3	P01

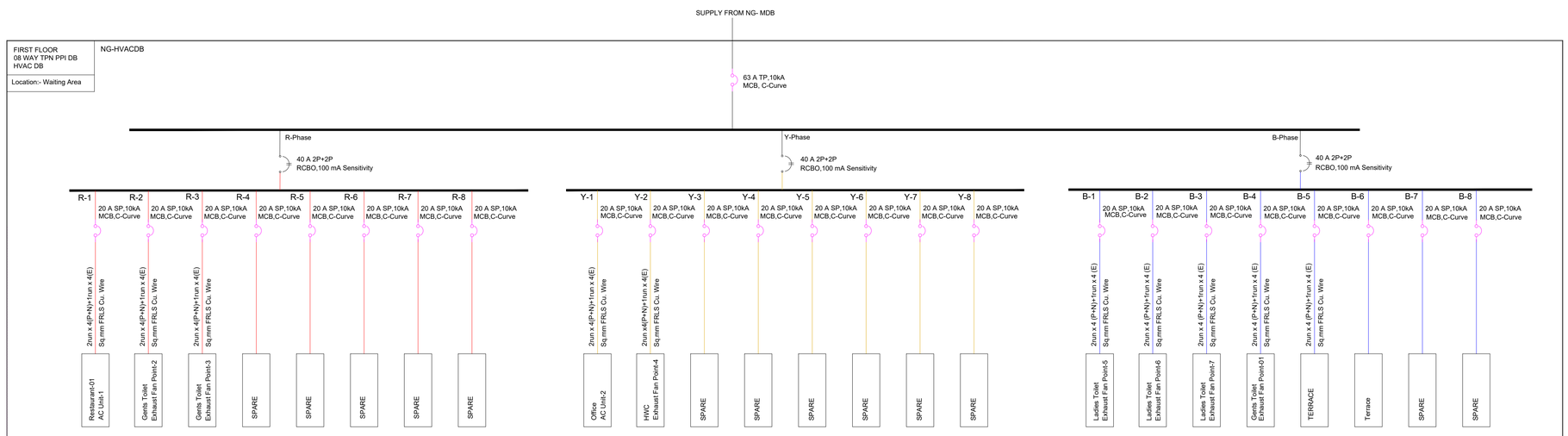
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-E-2183

DO NOT SCALE







© HaskoningDHV Consulting Pvt. Ltd.

LEGEND:

MINIATURE CIRCUIT BREAKER

RESIDUAL CURRENT BREAKER WITH OVERLOAD

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RVC

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hkdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
FIRST FLOOR & TECHNICAL FLOOR
LIGHTING & SMALL POWER
SINGLE LINE DIAGRAM

DRAWN	CHECKED	APPROVED
PPP	BAP	RVC
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-E-2183	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-N-2184

DO NOT SCALE

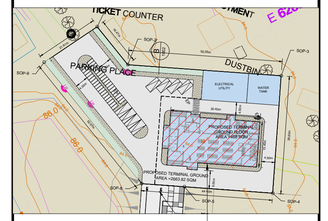


FIRST FLOOR PLAN
SCALE 1:100



GROUND FLOOR PLAN
SCALE 1:100

© HaskoningDHV Consulting Pvt. Ltd.



KEY PLAN

LEGEND:

- FIXED CAMERA
- PTZ CAMERA
- SPEAKER
- CARD READER
- POWER AMPLIFIER
- DUPLEX OUTLET (1-port TEL + 1 port DATA) 2x6A/16A, SOCKET OUTLET

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PPP	BAP	RJK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai – 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

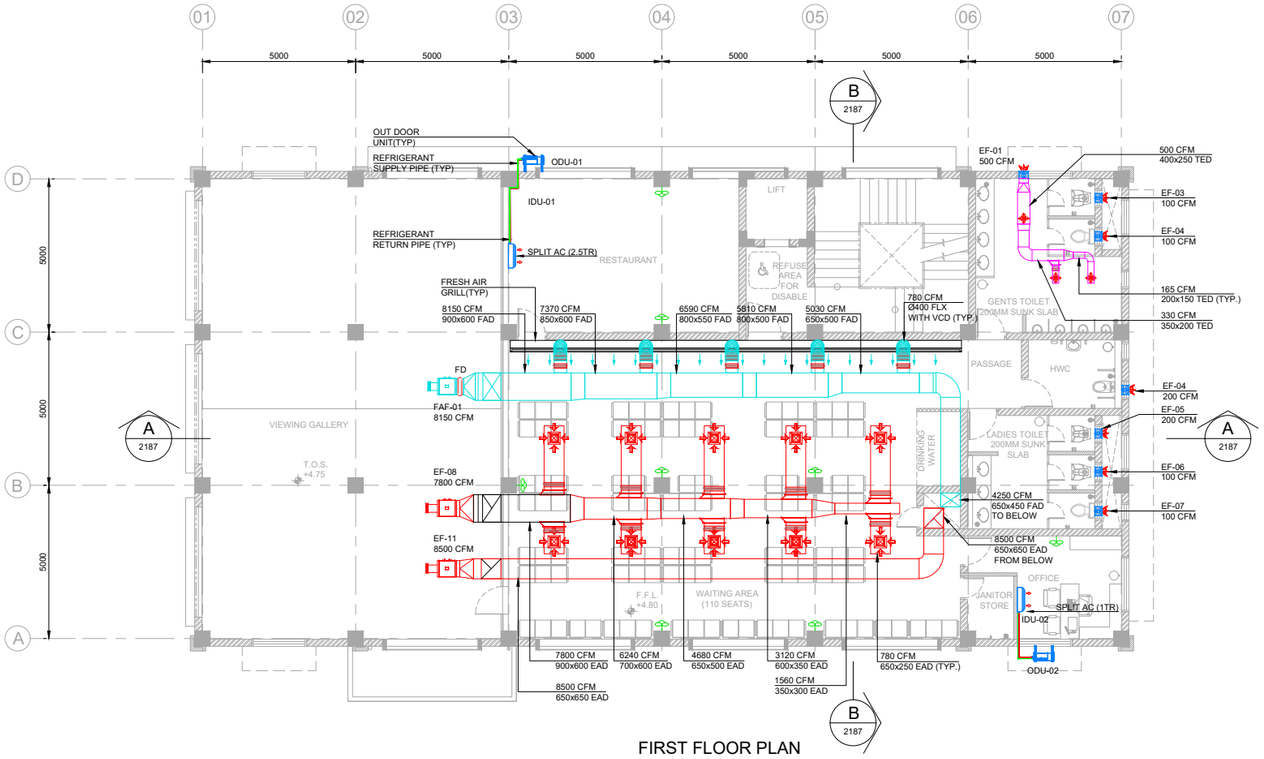
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
SECURITY & COMMS.

DRAWN	CHECKED	APPROVED
SH	BAP	RJK
DATE	SCALE @A1	REF.
FEB 2023	AS SHOWN	-

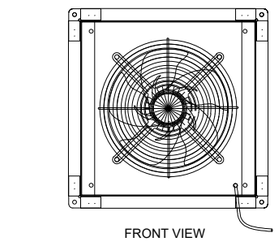
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-N-2184	A3	P01

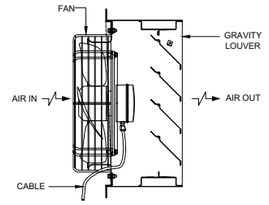
DRG No.
DI1530-RHD-ZZ-NG-DR-M-2186

DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:100

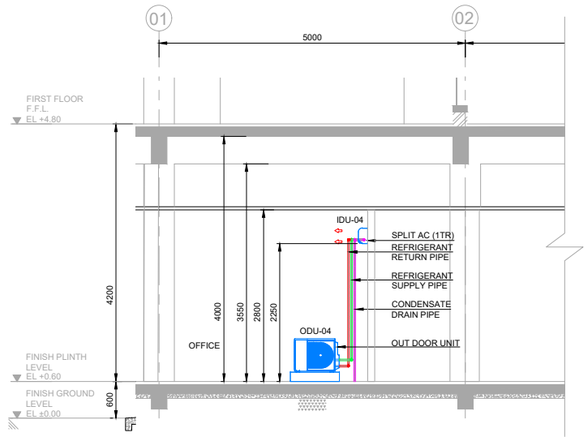




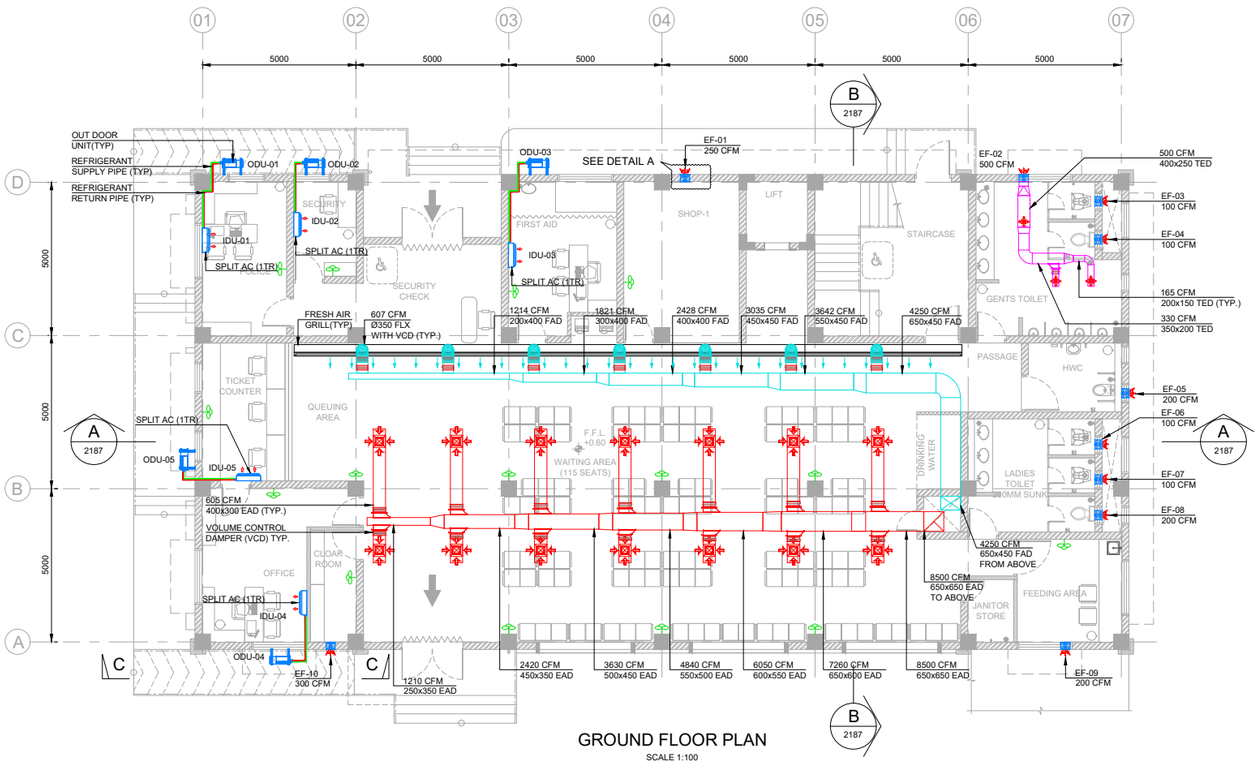
TYPICAL FAN DETAILS
SCALE 1:10

ABBREVIATION:

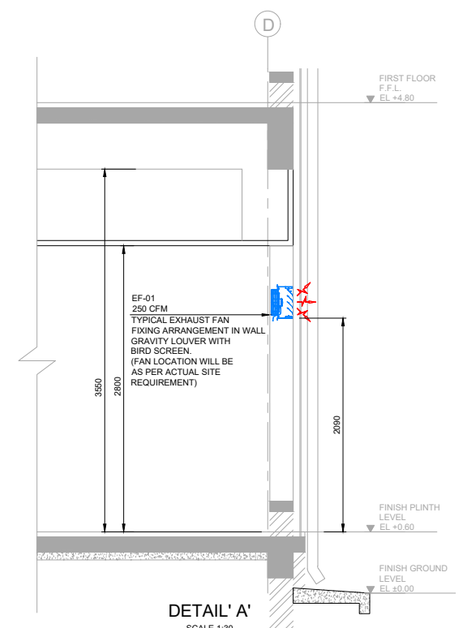
FAD - FRESH AIR DUCT
EAD - EXHAUST AIR DUCT
TED - TOILET EXHAUST DUCT
EF - EXHAUST FAN
FAF - FRESH AIR FAN
IDU - INDOOR UNIT
ODU - OUTDOOR UNIT



SECTION C-C
SCALE 1:50

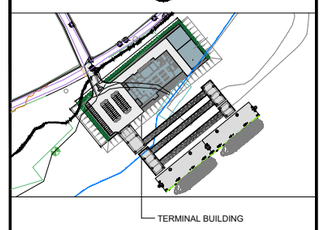


GROUND FLOOR PLAN
SCALE 1:100



DETAIL' A'
SCALE 1:30

© HaskoningDHV Consulting Pvt. Ltd.



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
3. FINISH GROUND LEVEL (F.G.L) WILL BE AS PER MASTER PLOT PLAN .
4. SHOWN AIR DISTRIBUTION NETWORK / SYSTEM/EQUIPMENT (DUCTING, GRILLS / DIFFUSER,LOCATION OF GRILLS, DUCTING SIZES, FAN SIZE) ARE SUBJECTED TO CHANGE AND THE SAME WILL BE VERIFIED DURING PREPARATION OF SHOP DRAWING.
5. ACOUSTIC INSULATION/ SOUND ATTENUATOR SHALL BE PROVIDED TO EQUIPMENT TO REDUCE NOISE LEVEL.
6. EQUIPMENT NOISE LEVEL SHALL BE MAINTAINED AS PER CPCB NORMS.
7. ALL HVAC EQUIPMENT SHALL BE SUITABLE FOR CORROSIVE ATMOSPHERE.
8. DRAIN OF ALL SPLIT AC UNIT SHALL BE CONNECTED TO NEAREST DRAINAGE NETWORK.
9. CEILING / WALL TYPE FANS SHALL BE PROVIDED TO ALL AIR CONDITIONED AREAS AND NON AIR CONDITIONED AREAS. SHOWN LOCATION OF CEILING / WALL TYPE FANS ARE INDICATIVE. HENCE, LOCATIONS & NOS. OF CEILING / WALL FANS WILL BE VERIFIED AND CHANGED AS PER ACTUAL SITE REQUIREMENT DURING SITE EXECUTION.

LEGEND:

- REFRIGERANT RETURN PIPE
- REFRIGERANT SUPPLY PIPE
- CONDENSATE DRAIN PIPE
- EXHAUST AIR DUCT
- FRESH AIR DUCT
- TOILET EXHAUST AIR DUCT
- SPLIT AC
- OUT DOOR UNIT
- EXHAUST DIFFUSER
- EXHAUST FAN (EF)
- EXHAUST AIR FAN DUCTED (EF)
- FRESH AIR FAN DUCTED (FAF)
- CEILING / WALL FAN (TYP.)

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA.
Tel +91 (0) 22 61396000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

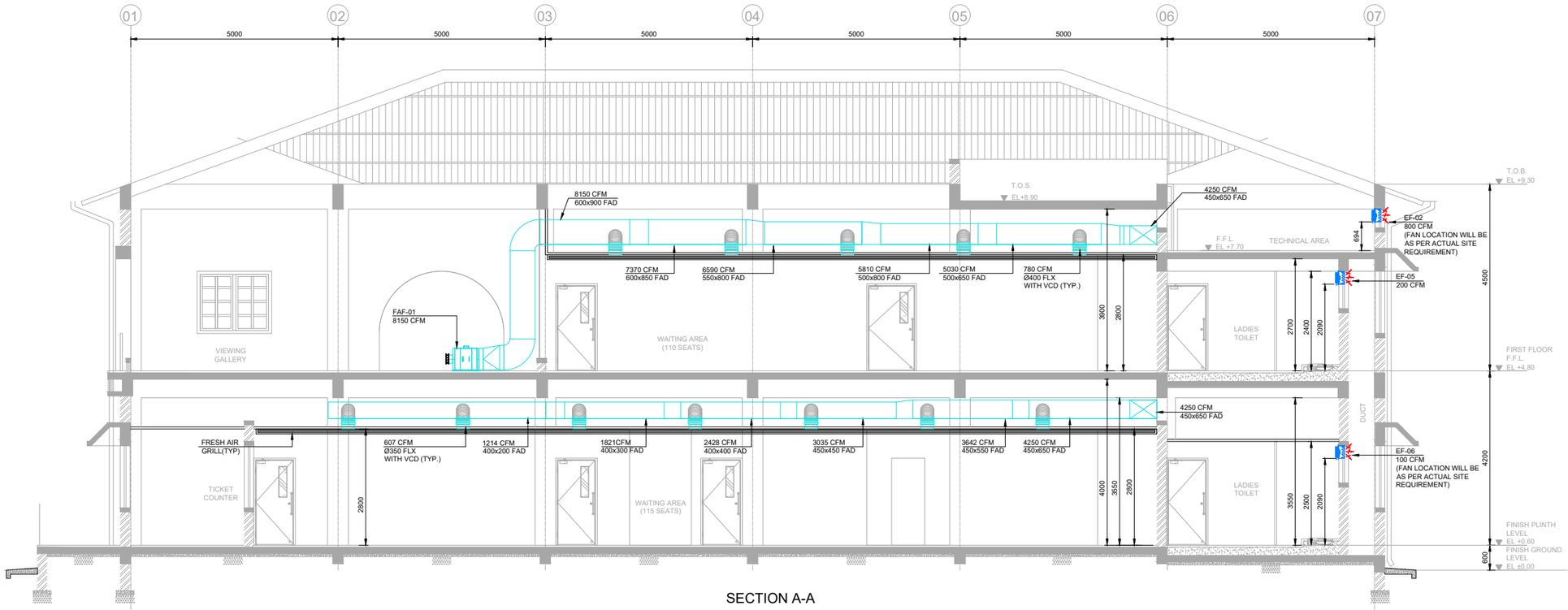
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - GROUND & FIRST FLOOR PLAN - HVAC LAYOUT

DRAWN	CHECKED	APPROVED
MM	SY	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF. DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2186	A3	P01

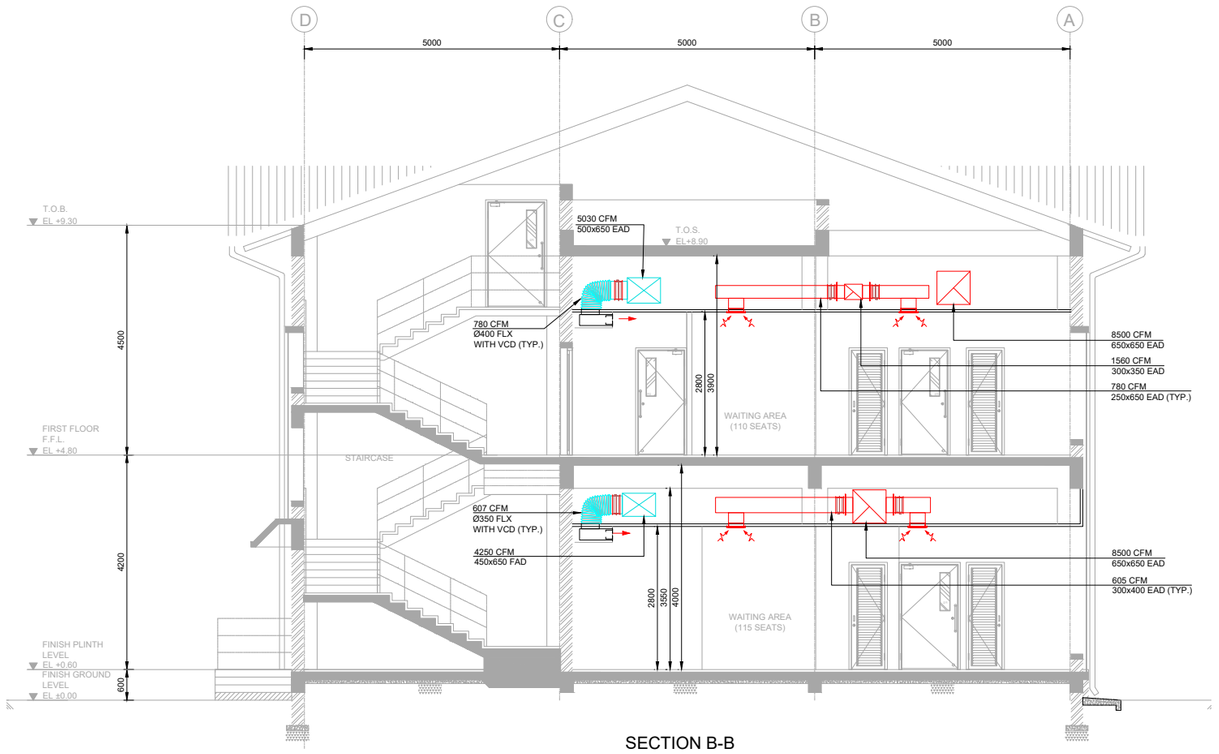
DRG No.
DI1530-RHD-ZZ-NG-DR-M-2187

DO NOT SCALE



SECTION A-A

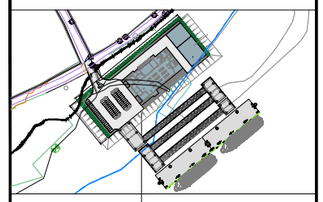
SCALE 1:60



SECTION B-B

SCALE 1:60

© HaskoningDHV Consulting Pvt. Ltd.



KEY PLAN

ABBREVIATION:

FAD - FRESH AIR DUCT
EAD - EXHAUST AIR DUCT
TED - TOILET EXHAUST DUCT
EF - EXHAUST FAN
FAF - FRESH AIR FAN
IDU - INDOOR UNIT
ODU - OUTDOOR UNIT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
3. FINISH GROUND LEVEL (F.G.L) WILL BE AS PER MASTER PLOT PLAN .
4. SHOWN AIR DISTRIBUTION NETWORK / SYSTEM/EQUIPMENT (DUCTING, GRILLS / DIFFUSER,LOCATION OF GRILLS, DUCTING SIZES, FAN SIZE) ARE SUBJECTED TO CHANGE AND THE SAME WILL BE VERIFIED DURING PREPARATION OF SHOP DRAWING.
5. ACOUSTIC INSULATION/ SOUND ATTENUATOR SHALL BE PROVIDED TO EQUIPMENT TO REDUCE NOISE LEVEL.
6. EQUIPMENT NOISE LEVEL SHALL BE MAINTAINED AS PER CPCB NORMS.
7. ALL HVAC EQUIPMENT SHALL BE SUITABLE FOR CORROSIVE ATMOSPHERE.
8. DRAIN OF ALL SPLIT AC UNIT SHALL BE CONNECTED TO NEAREST DRAINAGE NETWORK.
9. CEILING / WALL TYPE FANS SHALL BE PROVIDED TO ALL AIR CONDITIONED AREAS AND NON AIR CONDITIONED AREAS. SHOWN LOCATION OF CEILING / WALL TYPE FANS ARE INDICATIVE. HENCE, LOCATIONS & NOS. OF CEILING / WALL FANS WILL BE VERIFIED AND CHANGED AS PER ACTUAL SITE REQUIREMENT DURING SITE EXECUTION.

LEGEND:

- REFRIGERANT RETURN PIPE
- REFRIGERANT SUPPLY PIPE
- CONDENSATE DRAIN PIPE
- EXHAUST AIR DUCT
- FRESH AIR DUCT
- SPLIT AC
- OUT DOOR UNIT
- EXHAUST DIFFUSER
- EXHAUST AIR FAN DUCTED (EF)
- FRESH AIR FAN DUCTED (FAF)

REFERENCE DRAWING NO.
D1530-RHD-ZZ-NG-DR-M-2186-A3-P01

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.India@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

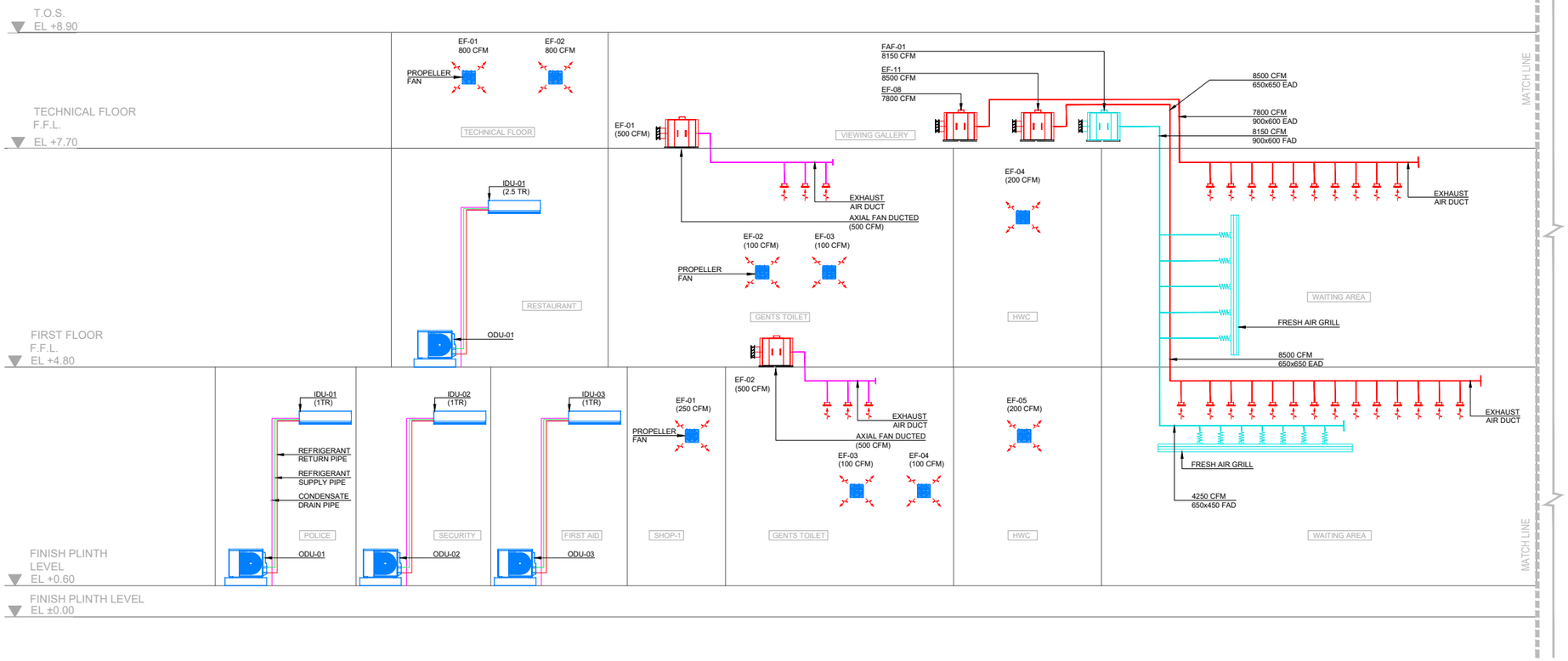
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE) -
SECTION LAYOUT - HVAC

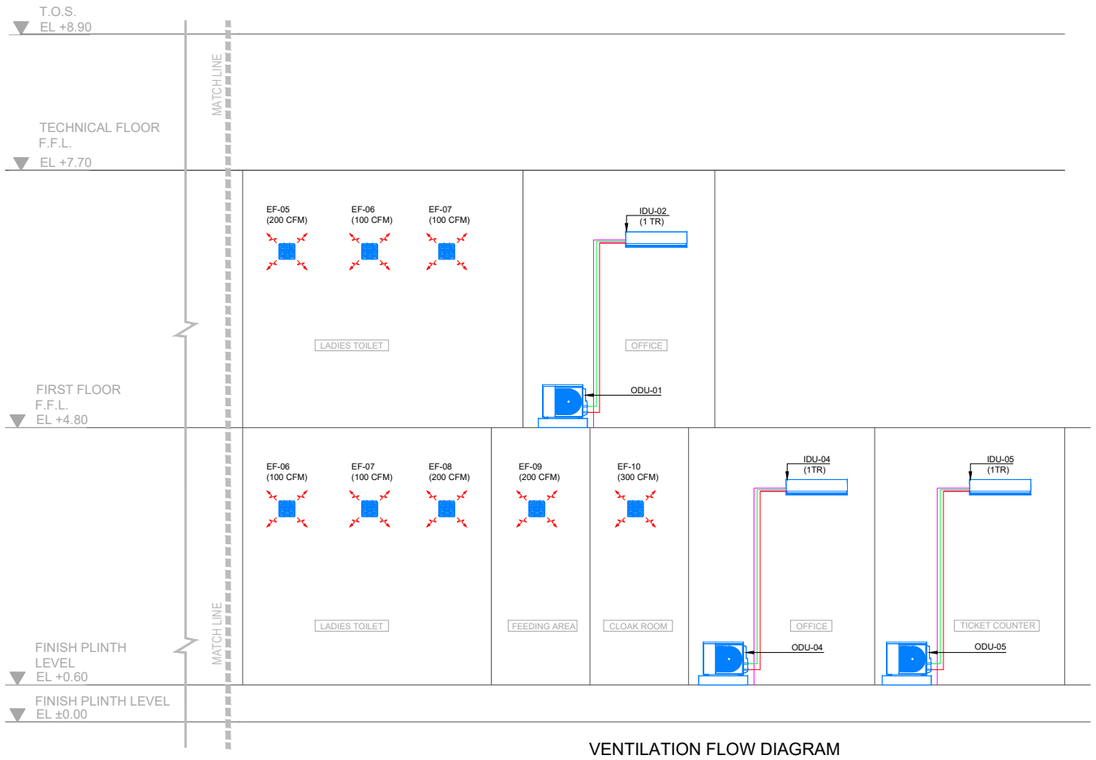
DRAWN	CHECKED	APPROVED
MM	SY	JRS
DATE: FEB. 2023	SCALE @A1: 1:60	REF.: D1530-RHD-ZZ-NG-DR-A-2123-A3-P01

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2187	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-M-2188

DO NOT SCALE

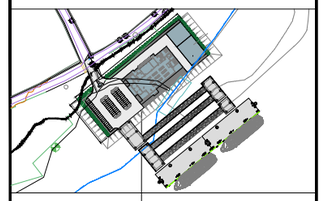




VENTILATION FLOW DIAGRAM

ABBREVIATION:

FAD - FRESH AIR DUCT
EAD - EXHAUST AIR DUCT
TED - TOILET EXHAUST DUCT
EF - EXHAUST FAN
FAF - FRESH AIR FAN
IDU - INDOOR UNIT
ODU - OUTDOOR UNIT



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
3. FINISH GROUND LEVEL (F.G.L) WILL BE AS PER MASTER PLOT PLAN .
4. SHOWN AIR DISTRIBUTION NETWORK / SYSTEM/EQUIPMENT (DUCTING, GRILLS / DIFFUSER,LOCATION OF GRILLS, DUCTING SIZES, FAN SIZE) ARE SUBJECTED TO CHANGE AND THE SAME WILL BE VERIFIED DURING PREPARATION OF SHOP DRAWING.
5. ACOUSTIC INSULATION/ SOUND ATTENUATOR SHALL BE PROVIDED TO EQUIPMENT TO REDUCE NOISE LEVEL.
6. EQUIPMENT NOISE LEVEL SHALL BE MAINTAINED AS PER CPCB NORMS.
7. ALL HVAC EQUIPMENT SHALL BE SUITABLE FOR CORROSIVE ATMOSPHERE.
8. DRAIN OF ALL SPLIT AC UNIT SHALL BE CONNECTED TO NEAREST DRAINAGE NETWORK.
9. CEILING / WALL TYPE FANS SHALL BE PROVIDED TO ALL AIR CONDITIONED AREAS AND NON AIR CONDITIONED AREAS. SHOWN LOCATION OF CEILING / WALL TYPE FANS ARE INDICATIVE. HENCE, LOCATIONS & NOS. OF CEILING / WALL FANS WILL BE VERIFIED AND CHANGED AS PER ACTUAL SITE REQUIREMENT DURING SITE EXECUTION.

LEGEND:

- REFRIGERANT RETURN PIPE
- REFRIGERANT SUPPLY PIPE
- CONDENSATE DRAIN PIPE
- EXHAUST AIR DUCT
- FRESH AIR DUCT
- SPLIT AC
- OUT DOOR UNIT
- EXHAUST DIFFUSER
- EXHAUST FAN (EF)
- EXHAUST AIR FAN DUCTED (EF)
- FRESH AIR FAN DUCTED (FF)

REFERENCE DRAWING NO.
DI1530-RHD-ZZ-NG-DR-M-2186-A3-P01
DI1530-RHD-ZZ-NG-DR-M-2200-A3-P01

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE) -
AIR FLOW DIAGRAM - HVAC

DRAWN	CHECKED	APPROVED
MM	SY	JRS
DATE: FEB. 2023	SCALE @A1: NTS	REF.: -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2188	A3	P01

© HaskoningDHV Consulting Pvt. Ltd

DRG No.
DI1530-RHD-ZZ-NG-DR-M-2189

DO NOT SCALE

EXHAUST FAN SCHEDULE

Unit No.	Service Area	Air flow CFM	Static Pressure (mm) Approximate	Quantity (Nos.)	Fan Type	Electrical data V/Ph/Hz	DB(A) Level
EF-01	SHOP-1	250	05	1.0	PROPELLER FAN	230/1/50	55
EF-02	GENTS TOILET	500	08	1.0	AXIAL FAN (DUCTED)	230/1/50	55
EF-03	GENTS TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-04	GENTS TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-05	HWC	200	05	1.0	PROPELLER FAN	230/1/50	55
EF-06	LADIES TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-07	LADIES TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-08	LADIES TOILET	200	05	1.0	PROPELLER FAN	230/1/50	55
EF-09	FEEDING AREA	200	05	1.0	PROPELLER FAN	230/1/50	55
EF-10	CLOAK ROOM	300	05	1.0	PROPELLER FAN	230/1/50	55
EF-11	WAITING AREA & SECURITY CHECK	8500	40	1.0	DIDW CENTRIFUGAL FAN WITH MOTOR (EXHAUST)	415/1/50	70
FAF-01	WAITING AREA & SECURITY CHECK	8150	40	1.0	DIDW CENTRIFUGAL FAN WITH MOTOR (FRESH AIR)	415/3/50	70

SPLIT SYSTEM AIR CONDITION UNIT SCHEDULE

OUT DOOR UNIT				IN DOOR UNIT							
Unit	Service Area	Electrical data V/Ph/Hz	*Power consume kW. (Approx)	Unit	Quantity (Nos.)	COOLING TONNAGE	Electrical data V/Ph/Hz	*Power consume kW. (Approx)	*Refrigeration Cu.pipe(mm.OD) Liquid/Gas	*Drain Pipe - OD/ID (mm)	Remark
ODU-01	POLICE	230/1/50	1.5 kw	IDU-01	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE
ODU-02	SECURITY	230/1/50	1.5 kw	IDU-02	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE
ODU-03	FIRST AID	230/1/50	1.5 kw	IDU-03	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE
ODU-04	OFFICE	230/1/50	1.5 kw	IDU-04	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE
ODU-05	TICKET COUNTER	230/1/50	1.5 kw	IDU-05	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE

*NOTE : ABOVE MENTIONED EQUIPMENT PARAMETERS LIKE CAPACITY, STATIC PRESSURE ETC. ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON ACTUAL SITE REQUIREMENT AND VENDOR STANDARD DESIGN.

CENTRAL CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR - EQUIPMENT LIST

EXHAUST FAN SCHEDULE

Unit No.	Service Area	Air flow CFM	Static Pressure (mm) Approximate	Quantity (Nos.)	Fan Type	Electrical data V/Ph/Hz	DB(A) Level
EF-01	GENTS TOILET	500	08	1.0	AXIAL FAN (DUCTED)	230/1/50	55
EF-02	GENTS TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-03	GENTS TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-04	HWC	200	05	1.0	PROPELLER FAN	230/1/50	55
EF-05	LADIES TOILET	200	05	1.0	PROPELLER FAN	230/1/50	55
EF-06	LADIES TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-07	LADIES TOILET	100	05	1.0	PROPELLER FAN	230/1/50	55
EF-08	WAITING AREA	7800	40	1.0	DIDW CENTRIFUGAL FAN WITH MOTOR (EXHAUST)	415/3/50	70

SPLIT SYSTEM AIR CONDITION UNIT SCHEDULE

OUT DOOR UNIT				IN DOOR UNIT							
Unit	Service Area	Electrical data V/Ph/Hz	*Power consume kW. (Approx)	Unit	Quantity (Nos.)	COOLING TONNAGE	Electrical data V/Ph/Hz	*Power consume kW. (Approx)	*Refrigeration Cu.pipe(mm.OD) Liquid/Gas	*Drain Pipe - OD/ID (mm)	Remark
ODU-01	RESTAURANT	230/1/50	2.6 kw	IDU-01	01 Nos.	2.5 TR	230/1/50	0.21	Ø9.52/Ø15.88	32/25	WALL TYPE
ODU-02	OFFICE	230/1/50	1.5 kw	IDU-02	01 Nos.	1.0 TR	230/1/50	0.14	Ø6.35/Ø12.7	20/16	WALL TYPE

*NOTE : ABOVE MENTIONED EQUIPMENT PARAMETERS LIKE CAPACITY, STATIC PRESSURE ETC. ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON ACTUAL SITE REQUIREMENT AND VENDOR STANDARD DESIGN.

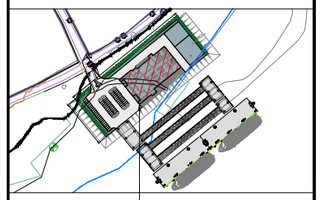
CENTRAL CLUSTER (NORTH GUWAHATI SITE) FIRST FLOOR - EQUIPMENT LIST

EXHAUST FAN SCHEDULE

Unit No.	Service Area	Air flow CFM	Static Pressure (mm) Approximate	Quantity (Nos.)	Fan Type	Electrical data V/Ph/Hz	DB(A) Level
EF-01, EF-02	TECHNICAL FLOOR	800	10	02	PROPELLER FAN	230/1/50	60

*NOTE : ABOVE MENTIONED EQUIPMENT PARAMETERS LIKE CAPACITY, STATIC PRESSURE ETC. ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON ACTUAL SITE REQUIREMENT AND VENDOR STANDARD DESIGN.

CENTRAL CLUSTER (NORTH GUWAHATI SITE) TECHNICAL FLOOR - EQUIPMENT LIST



KEY PLAN

NOTES:

1. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
2. SHOWN AIR DISTRIBUTION NETWORK / SYSTEM/EQUIPMENT (DUCTING, GRILLS / DIFFUSER,LOCATION OF GRILLS, DUCTING SIZES, FAN SIZE) ARE SUBJECTED TO CHANGE AND THE SAME WILL BE VERIFIED DURING PREPARATION OF SHOP DRAWING.
3. ACOUSTIC LOUVERS WILL BE PROVIDED TO REDUCE NOISE LEVEL.
4. CEILING / WALL TYPE FANS SHALL BE PROVIDED TO ALL AIR CONDITIONED AREAS AND NON AIR CONDITIONED AREAS. SHOWN LOCATION OF CEILING / WALL TYPE FANS ARE INDICATIVE. HENCE, LOCATIONS & NOS. OF CEILING / WALL FANS WILL BE VERIFIED AND CHANGED AS PER ACTUAL SITE REQUIREMENT DURING SITE EXECUTION.

ABBREVIATION:

FAD - FRESH AIR DUCT
EAD - EXHAUST AIR DUCT
TED - TOILET EXHAUST DUCT
EF - EXHAUST FAN
FAF - FRESH AIR FAN
IDU - INDOOR UNIT
ODU - OUTDOOR UNIT

REFERENCE DRAWING NO.
DI1530-RHD-ZZ-NG-DR-M-2186-A3-P01
DI1530-RHD-ZZ-NG-DR-M-2188-A3-P01
DI1530-RHD-ZZ-NG-DR-M-2200-A3-P01

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hndhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - EQUIPMENT LIST - HVAC

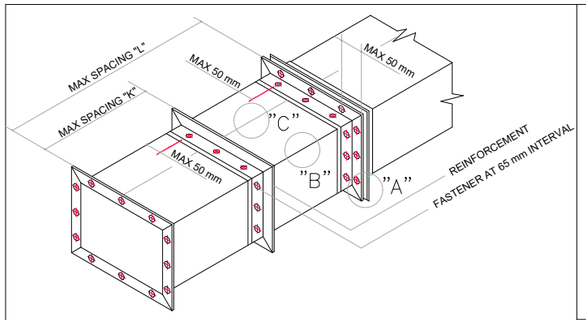
DRAWN	CHECKED	APPROVED
MM	SY	JRS
DATE: FEB. 2023	SCALE @A1: NTS	REF.: -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2189	A3	P01

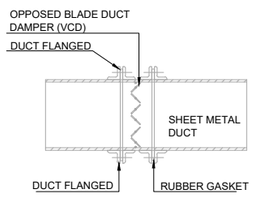
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-M-2190

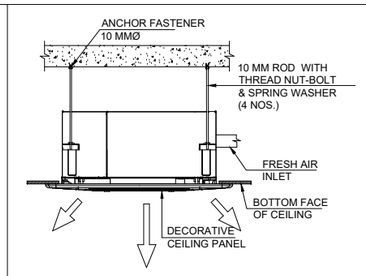
DO NOT SCALE



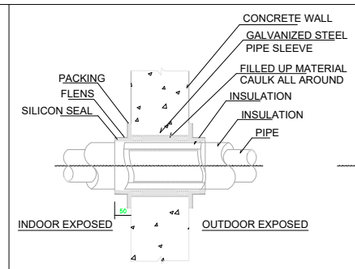
GENERAL FABRICATION RECTANGULAR DUCT TO BE INSULATED AS PER ISHRAE STANDARD WHEREVER DUCT OPEN TO ATMOSPHERE.



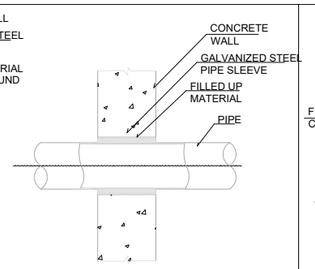
DUCT DAMPER FIXING DETAILS



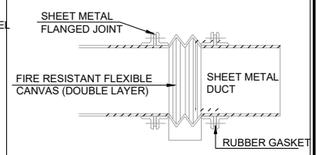
INSTALLATION OF CASSETTE UNIT FROM SLAB



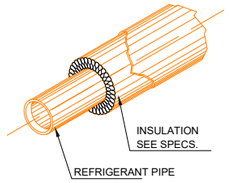
INSULATED PIPE EXTERIOR WALL PENETRATION

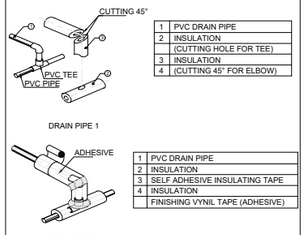


UNINSULATED PIPE EXTERIOR WALL PENETRATION



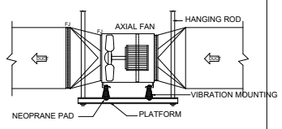
TYPICAL CANVAS CONNECTION



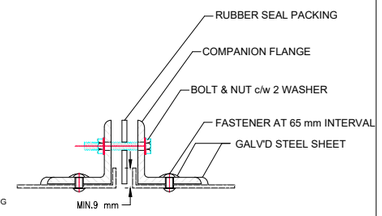


1	PVC DRAIN PIPE
2	INSULATION
	(CUTTING HOLE FOR TEE)
3	INSULATION
4	(CUTTING 45° FOR ELBOW)

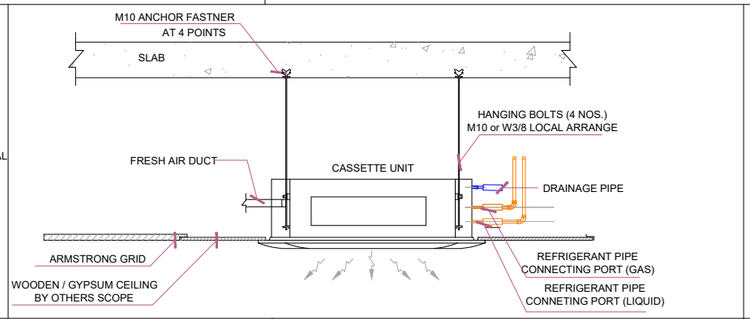
1	PVC DRAIN PIPE
2	INSULATION
3	SELF ADHESIVE INSULATING TAPE
4	INSULATION
	FINISHING VYNIL TAPE (ADHESIVE)

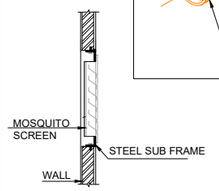


EXHAUST FAN

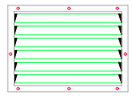


DETAIL A COMPANION FLANGE

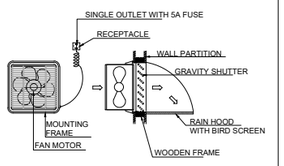




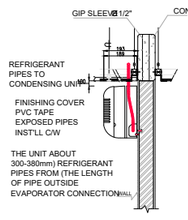
SECTION



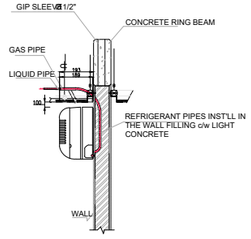
PLAN FRESH AIR INTAKE LOUVER



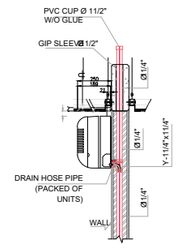
WALL MOUNTED PROPELLER FAN W/RAIN HOOD



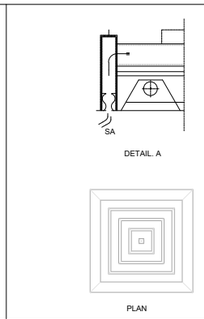
REFRIGERANT PIPE INST'LL

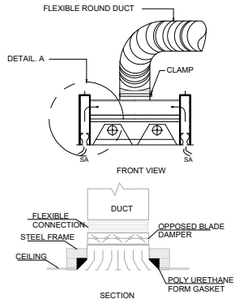


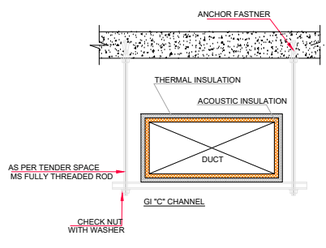
TYPICAL DETAIL PIPE INSTALLATION
AC - UNITS WALL MOUNTED TYPE



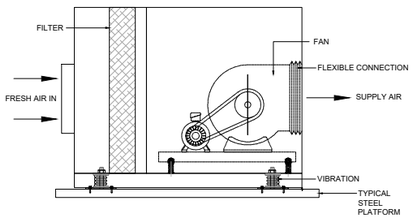
DRAIN PIPE INST'LL



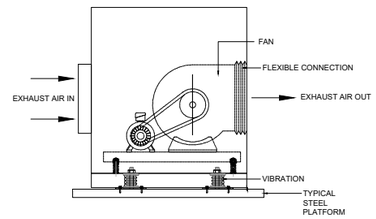




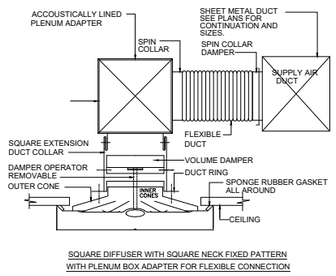
TYPICAL DUCT SUPPORT
SMACNA STANDARDS/ISHRAE STANDARDS



DIDW FRESH AIR CENTRIFUGAL FAN WITH MOTOR (TYPICAL)

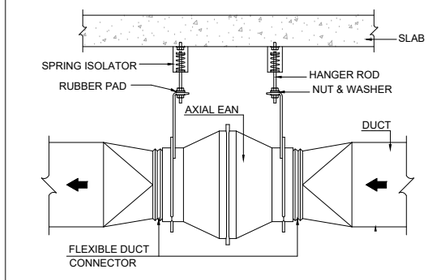


DIDW EXHAUST AIR CENTRIFUGAL FAN WITH MOTOR (TYPICAL)

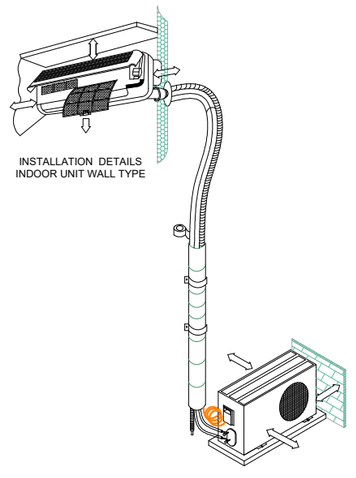


SQUARE DIFFUSER WITH SQUARE NECK FIXED PATTERN WITH PLENUM BOX ADAPTER FOR FLEXIBLE CONNECTION

INSTALLATION OF SQUARE CEILING DIFFUSER



INLINE FAN INSTALLATION DETAIL



INSTALLATION DETAILS
INDOOR UNIT WALL TYPE

INSTALLATION DETAILS
OUTDOOR UNIT WALL TYPE

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS , UNLESS NOTED OTHERWISE.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
3. QUANTITY,SIZE & LOCATION OF ALL SHOWN EQUIPMENT IS INDICATIVE & THAT WILL BE SUBJECT TO CHANGE AND THE SAME WILL BE CHECKED ON SITE BY THE CONTRACTOR.
4. FINAL EQUIPMENT SELECTION TO BE DETERMINED ACCORDING TO FINAL CALCULATIONS BASED ON SHOP DRAWING DESIGN.
5. ACOUSTIC LOUVERS WILL BE PROVIDED TO REDUCE NOISE LEVEL.
6. ALL ABOVE GROUND CHILLED WATER PIPING , UNDERGROUND CHILLED WATER PIPING AND ITS ARRANGEMENT SHALL BE AS PER ISHRAE STANDARDS.
7. HANGER ATTACHMENT TO THE STRUCTURES, UPPER ATTACHMENT DEVICES, LOWER HANGER ATTACHMENT, RISER SUPPORT-FROM FLOOR, SUPPORT FROM WALLS, HVAC UNIT SUSPENSION, TRANSVERSE JOINTS SHALL BE AS PER ISHRAE STANDARDS.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
922-925, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

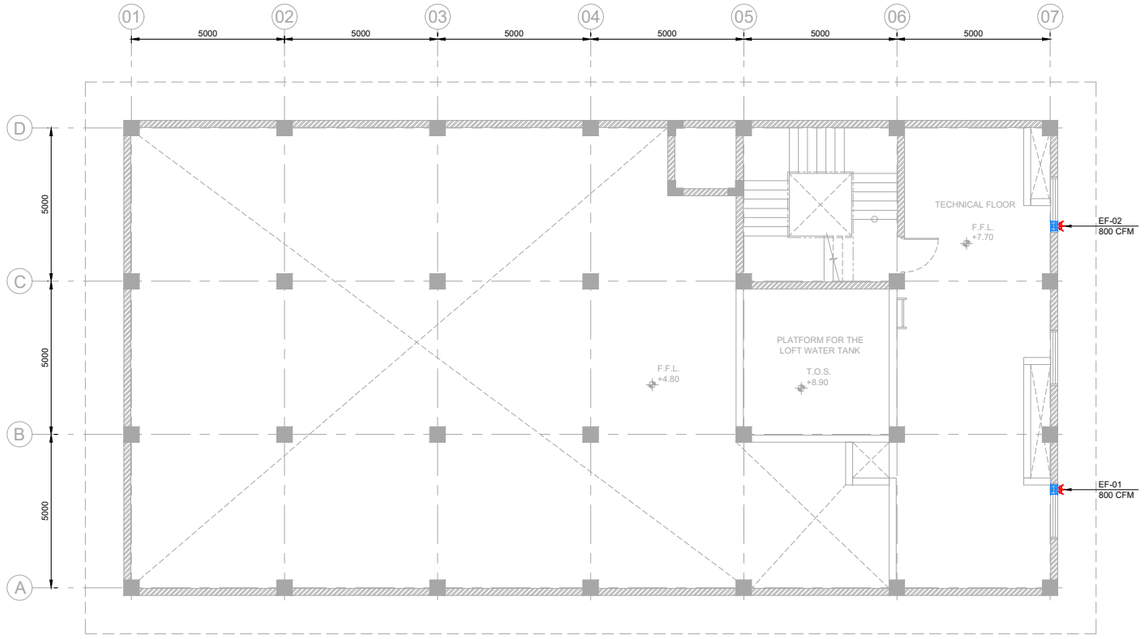
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - TYPICAL DETAILS - HVAC

DRAWN MM	CHECKED SY	APPROVED JRS	
DATE FEB. 2023	SCALE @A1 NTS	REF. -	
DRAWING No. DI1530-RHD-ZZ-NG-DR-M-2190		SUITABILITY A3	REVISION P01

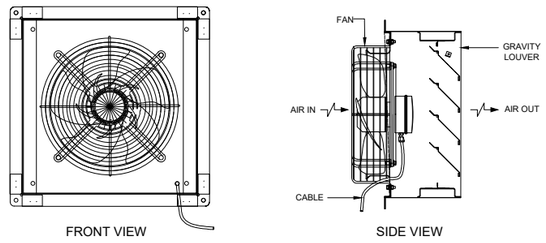
© HaskoningDHV Consulting Pvt. Ltd

DRG No.
DI1530-RHD-ZZ-NG-DR-M-2200

DO NOT SCALE

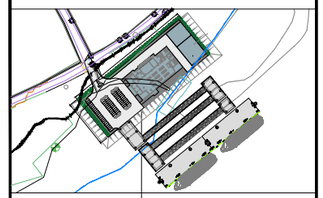


TECHNICAL FLOOR PLAN
SCALE 1:100



FRONT VIEW SIDE VIEW

TYPICAL FAN DETAILS
SCALE 1:10



KEY PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL & STRUCTURAL DRAWING & ALSO THE TECHNICAL SPECIFICATION OF MEP.
3. FINISH GROUND LEVEL (F.G.L) WILL BE AS PER MASTER PLOT PLAN .
4. SHOWN AIR DISTRIBUTION NETWORK / SYSTEM/EQUIPMENT (DUCTING, GRILLS / DIFFUSER,LOCATION OF GRILLS, DUCTING SIZES, FAN SIZE) ARE SUBJECTED TO CHANGE AND THE SAME WILL BE VERIFIED DURING PREPARATION OF SHOP DRAWING.
5. ACOUSTIC INSULATION/ SOUND ATTENUATOR SHALL BE PROVIDED TO EQUIPMENT TO REDUCE NOISE LEVEL.
6. EQUIPMENT NOISE LEVEL SHALL BE MAINTAINED AS PER CPCB NORMS.
7. ALL HVAC EQUIPMENT SHALL BE SUITABLE FOR CORROSIVE ATMOSPHERE.
8. DRAIN OF ALL SPLIT AC UNIT SHALL BE CONNECTED TO NEAREST DRAINAGE NETWORK.
9. CEILING / WALL TYPE FANS SHALL BE PROVIDED TO ALL AIR CONDITIONED AREAS AND NON AIR CONDITIONED AREAS. SHOWN LOCATION OF CEILING / WALL TYPE FANS ARE INDICATIVE. HENCE, LOCATIONS & NOS. OF CEILING / WALL FANS WILL BE VERIFIED AND CHANGED AS PER ACTUAL SITE REQUIREMENT DURING SITE EXECUTION.

LEGEND:

EXHAUST FAN (EF)

ABBREVIATION:

FAD - FRESH AIR DUCT
EAD - EXHAUST AIR DUCT
TED - TOILET EXHAUST DUCT
EF - EXHAUST FAN
FAF - FRESH AIR FAN
IDU - INDOOR UNIT
ODU - OUTDOOR UNIT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	MM	SY	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - TECHNICAL FLOOR PLAN - HVAC LAYOUT

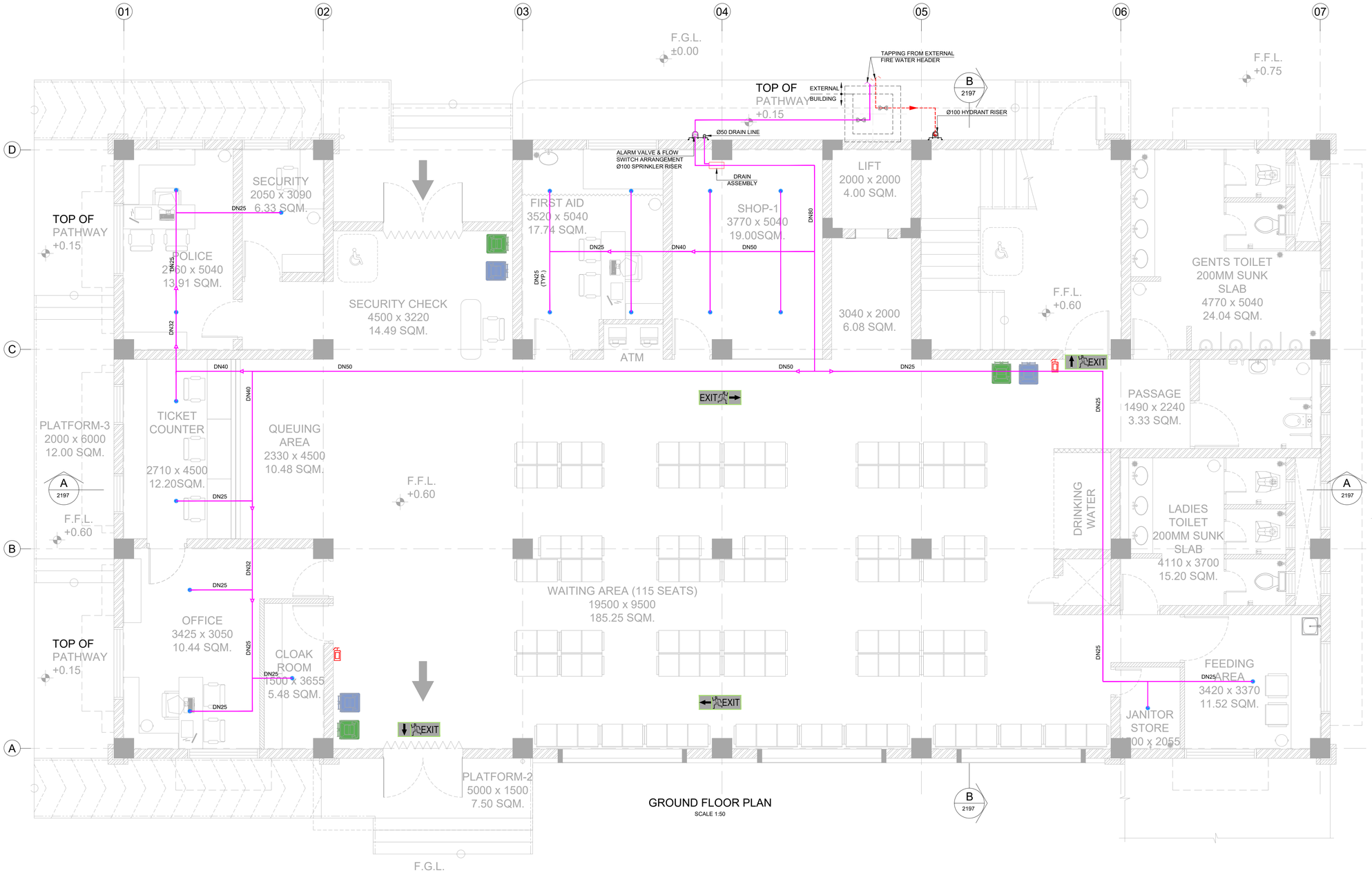
DRAWN	CHECKED	APPROVED
MM	SY	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.: DI1530-RHD-ZZ-NG-DR-A-2122-A3-P01

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-M-2200	A3	P01

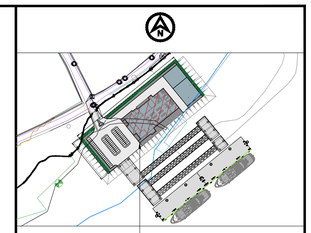
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2191

DO NOT SCALE



GROUND FLOOR PLAN
SCALE 1:50



KEY PLAN

NOTES

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. ISOLATION VALVE CHAMBER DETAILS ARE PROVIDED IN FIRE FIGHTING TYPICAL LAYOUT.
3. HOSE BOX & SINGLE HYDRANT VALVE TO BE INSTALLED AT A HEIGHT OF 1200mm FROM FFL.
4. DRAIN ASSEMBLY TO BE PROVIDED TO SUITE AT SITE.
5. ORIFICE PLATES OF SUITABLE DESIGN SHALL BE PROVIDED IN THE LANDING VALVES, WHERE NECESSARY, TO LIMIT THE OPERATING PRESSURES
6. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

LEGEND:

- FIRE HYDRANT LINE
- SPRINKLER LINE
- REDUCER
- 63MM SINGLE HEAD INTERNAL HYDRANT
- FIRE HOSE REEL Ø25, 30M LG
- HOSE BOX
- PORTABLE FIRE EXTINGUISHER
- PENDANT SPRINKLER
- ISOLATION VALVE
- EXIT SIGNAGE

REFERENCE DRAWING NO.

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P013 -CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Pentium Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai – 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - GROUND FLOOR PLANS - FIRE FIGHTING LAYOUT

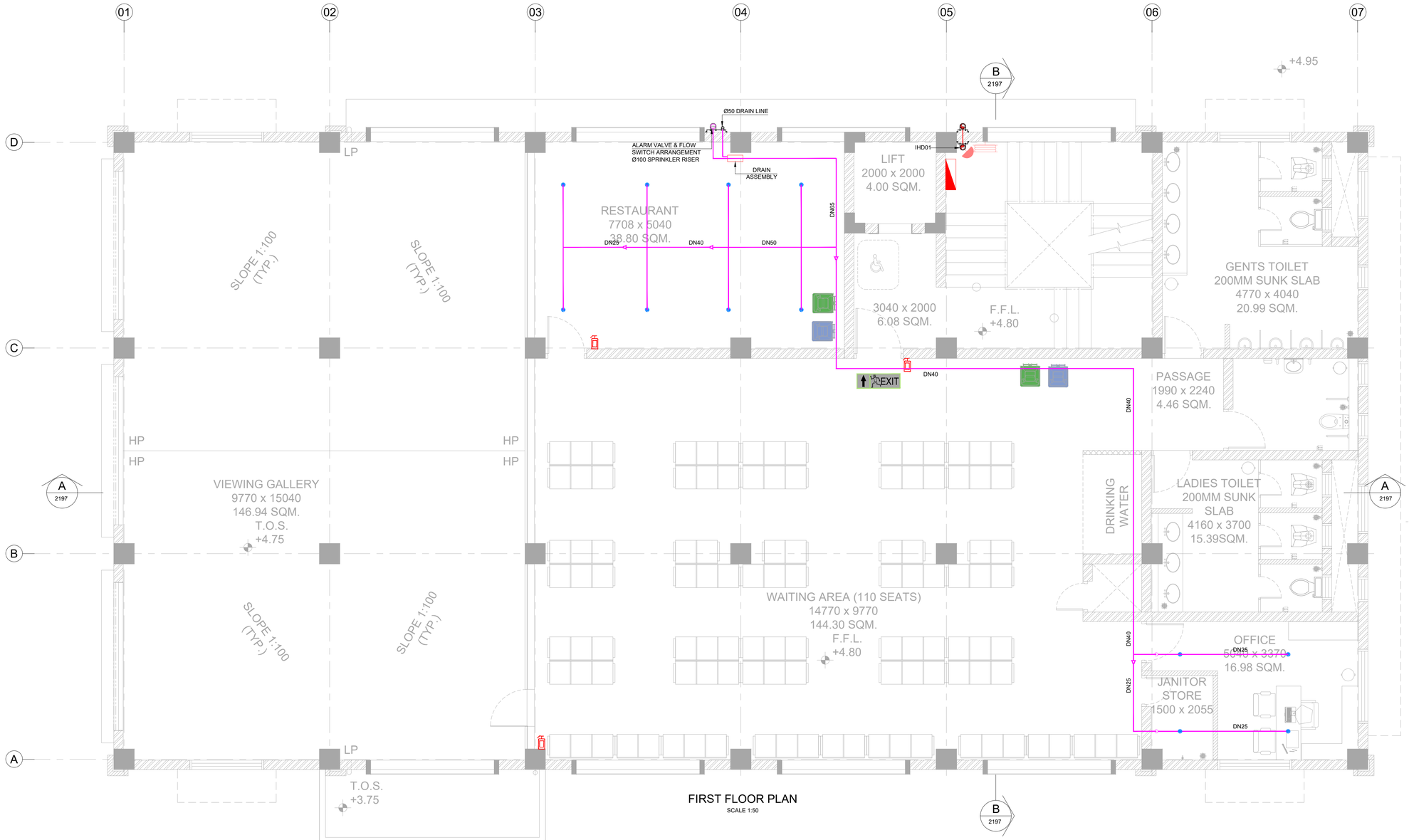
DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2191	A3	P01

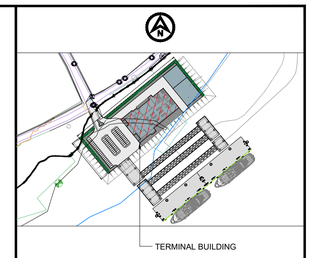
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2192

DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:50



KEY PLAN

NOTES

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. ISOLATION VALVE CHAMBER DETAILS ARE PROVIDED IN FIRE FIGHTING TYPICAL LAYOUT.
3. HOSE BOX & SINGLE HYDRANT VALVE TO BE INSTALLED AT A HEIGHT OF 1200mm FROM FFL.
4. DRAIN ASSEMBLY TO BE PROVIDED TO SUITE AT SITE.
5. ORIFICE PLATES OF SUITABLE DESIGN SHALL BE PROVIDED IN THE LANDING VALVES, WHERE NECESSARY, TO LIMIT THE OPERATING PRESSURES
6. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

- FIRE HYDRANT LINE
- SPRINKLER LINE
- REDUCER
- 63MM SINGLE HEAD INTERNAL HYDRANT
- FIRE HOSE REEL Ø25, 30M LG
- HOSE BOX
- PORTABLE FIRE EXTINGUISHER
- PENDANT SPRINKLER
- ISOLATION VALVE
- EXIT SIGNAGE

REFERENCE DRAWING NO.

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01 - CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- FIRST FLOOR PLANS - FIRE FIGHTING LAYOUT

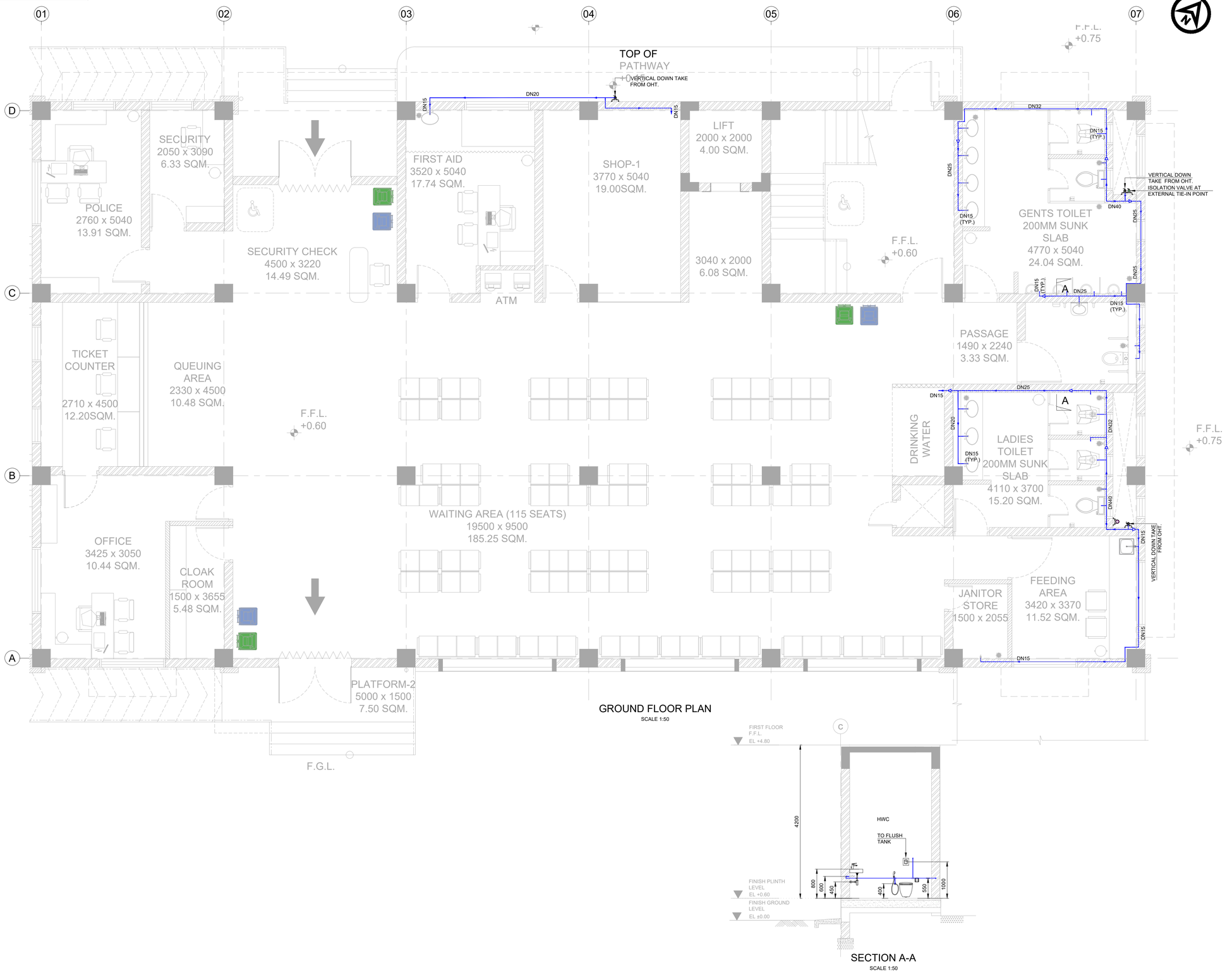
DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE	SCALE @A1	REF.
FEB. 2023	AS SHOWN	

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2192	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2193

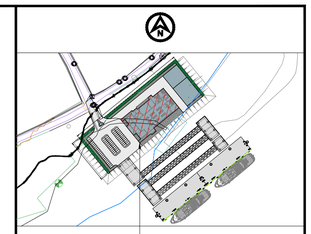
DO NOT SCALE



GROUND FLOOR PLAN
SCALE 1:50

SECTION A-A
SCALE 1:50

© HaskoningDHV Consulting Pvt. Ltd.



KEY PLAN

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. ISOLATION VALVE CHAMBER DETAILS ARE PROVIDED IN TYPICAL DETAILS FOR DRAINAGE & WATER .
3. ALL INTERNAL PIPE WORK SHALL BE CPVC MATERIAL.
4. ALL LOW POINT AND HIGH POINT SHALL BE PROVIDED WITH A DN25 DRAIN AND VENT RESPECTIVELY.
5. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

- WATER SUPPLY LINE
- INLET WATER SUPPLY LINE (EXTERNAL TO TANK)
- DRAIN / OVERFLOW LINE
- BALL VALVE
- REDUCER

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01 - CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

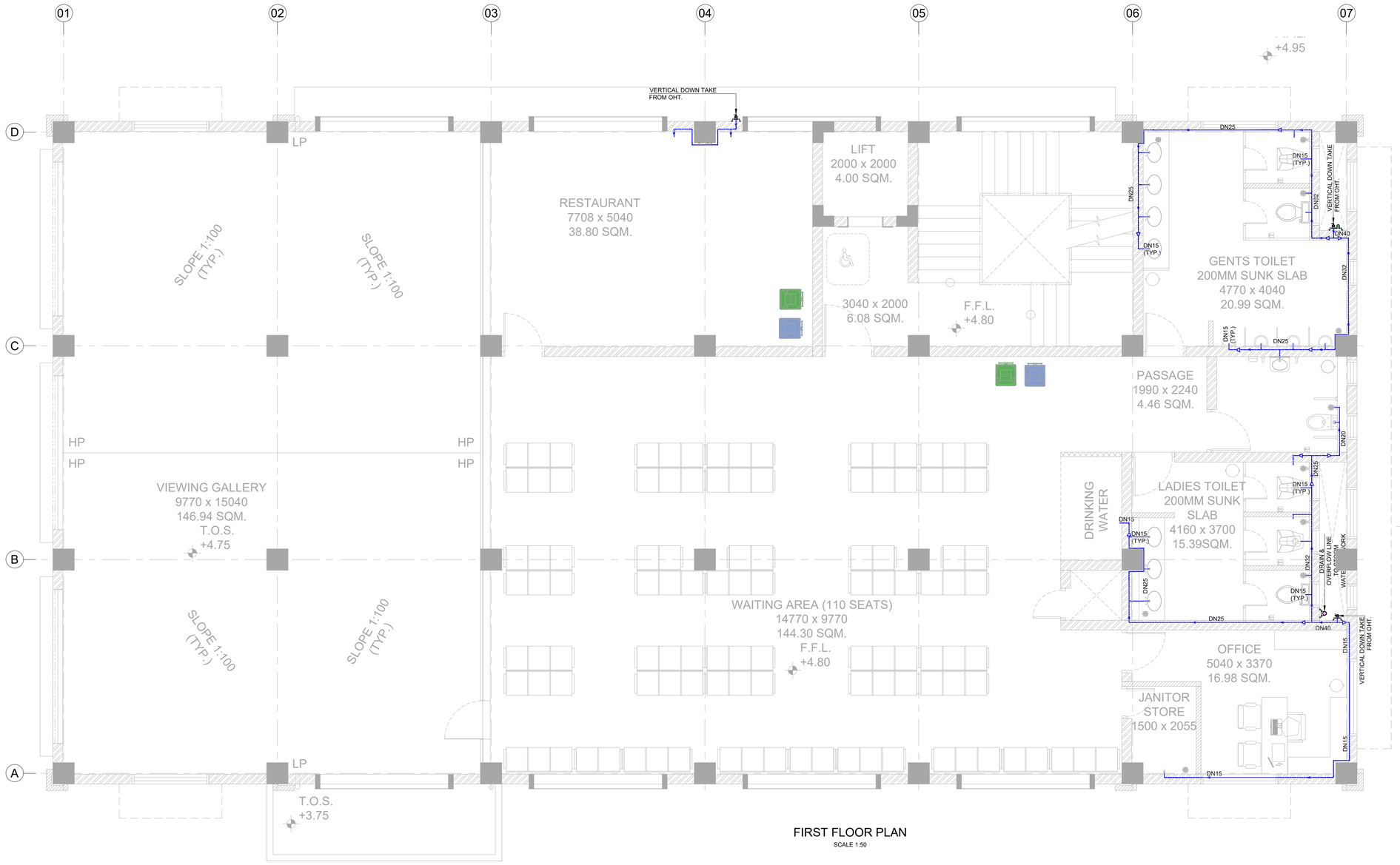
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- GROUND FLOOR PLANS - WATER SUPPLY LAYOUT

DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE	SCALE @A1	REF.
FEB. 2023	AS SHOWN	

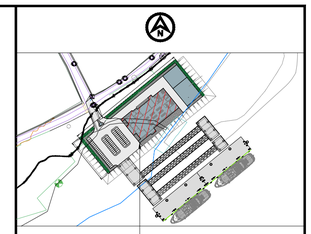
DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2193	A3	P01

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2194

DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:50



KEY PLAN

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. ISOLATION VALVE CHAMBER DETAILS ARE PROVIDED IN TYPICAL DETAILS FOR DRAINAGE & WATER .
3. ALL INTERNAL PIPE WORK SHALL BE CPVC MATERIAL.
4. ALL LOW POINT AND HIGH POINT BE PROVIDED WITH A DN25 DRAIN AND VENT.
5. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

- WATER SUPPLY LINE
- INLET WATER SUPPLY LINE (EXTERNAL TO TANK)
- DRAIN / OVERFLOW LINE
- BALL VALVE
- REDUCER

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01 - CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
902-905, 9th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- FIRST FLOOR PLANS - WATER SUPPLY LAYOUT

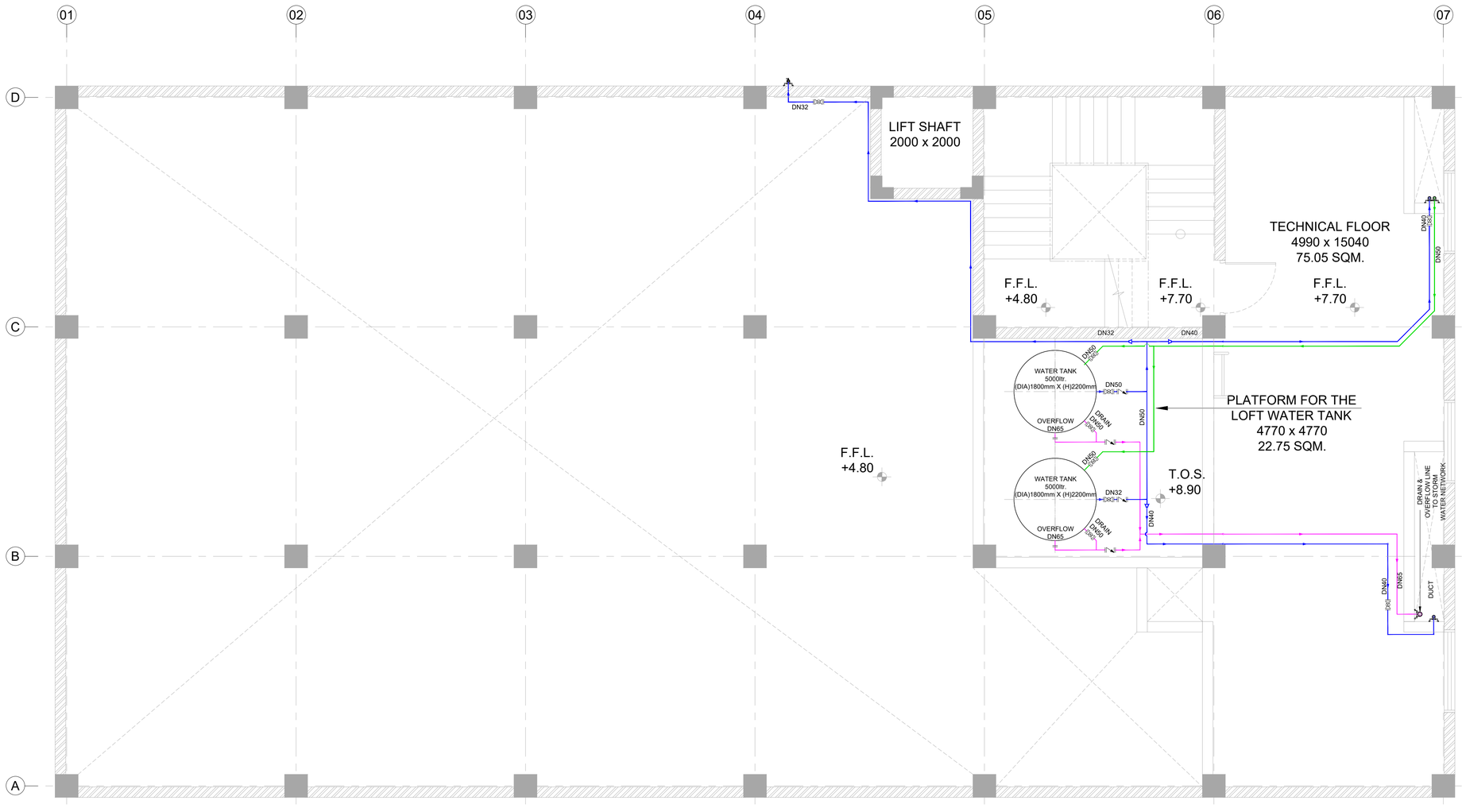
DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2194	A3	P01

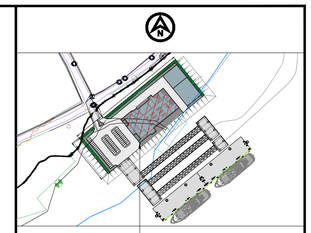
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2195

DO NOT SCALE



TECHNICAL FLOOR PLAN
SCALE 1:100



KEY PLAN

NOTES

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. ALL INTERNAL PIPE WORK SHALL BE CPVC MATERIAL.
3. ALL LOW POINT AND HIGH POINT BE PROVIDED WITH A DN25 DRAIN AND VENT.
4. OVERHEAD TANK TO BE PLACED ON FOUNDATION OR PEDESTAL.
5. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

- WATER SUPPLY LINE
- INLET WATER SUPPLY LINE (EXTERNAL TO TANK)
- DRAIN / OVERFLOW LINE
- BALL VALVE
- REDUCER
- NON RETURN VALVE

REFERENCE DRAWING NO.

DI1530-RHD-ZZ-NG-DR-A-2122-A3-P01 - CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) TECHNICAL FLOOR & ROOF PLAN

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel: +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- TERRACE FLOOR PLANS - WATER SUPPLY LAYOUT

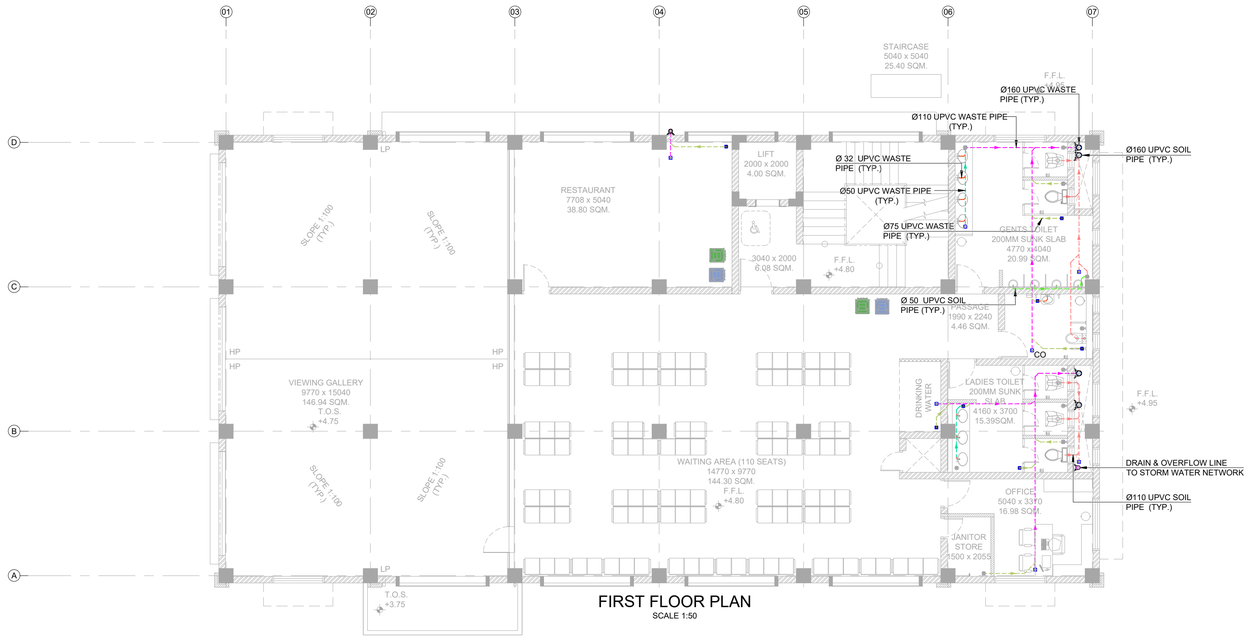
DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2195	A3	P01

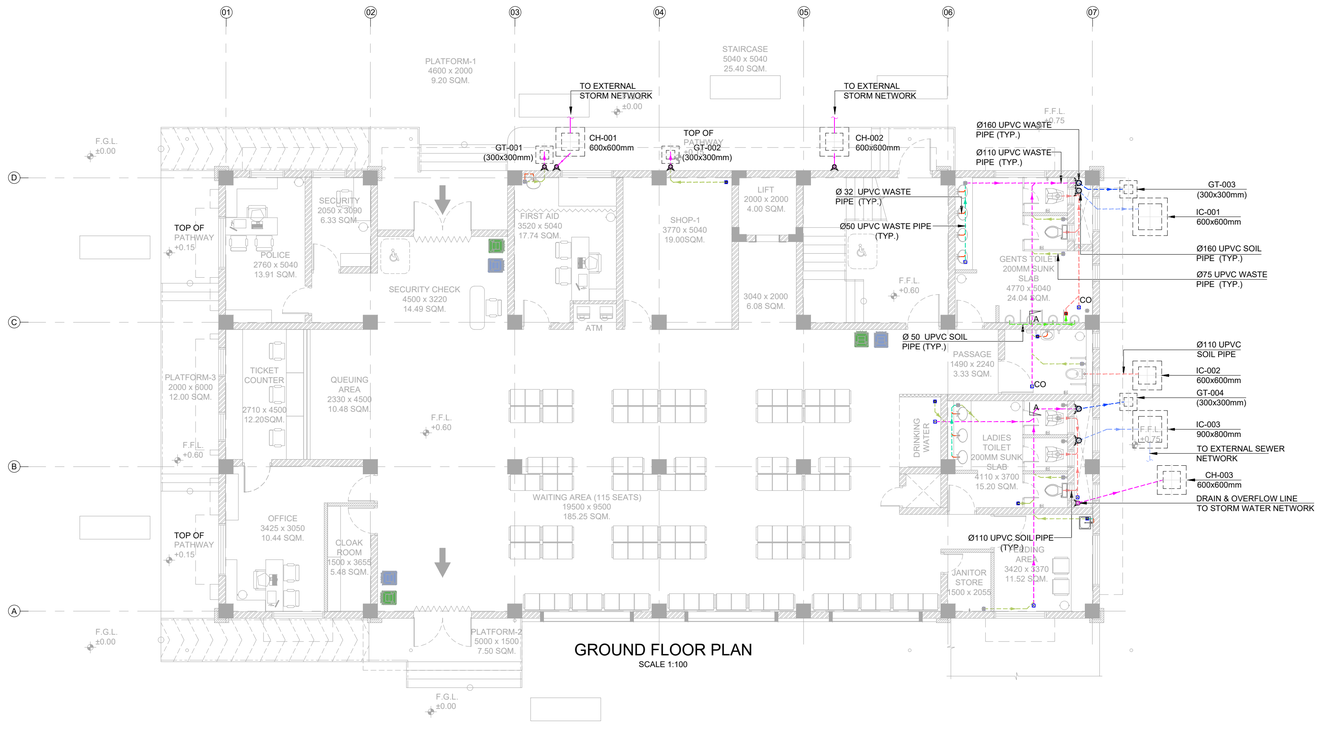
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2196

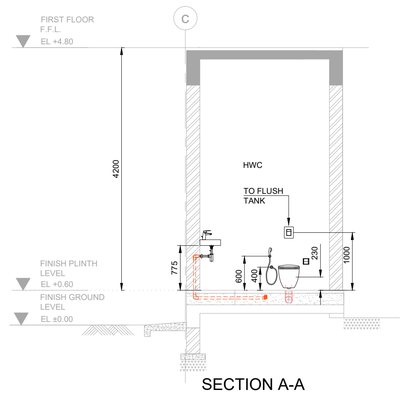
DO NOT SCALE



FIRST FLOOR PLAN
SCALE 1:50



GROUND FLOOR PLAN
SCALE 1:100



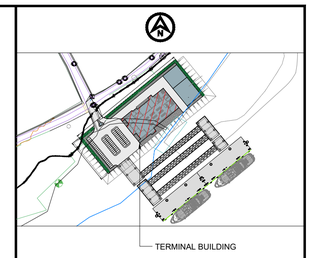
SECTION A-A
SCALE 1:50

SEWAGE LINE CHAMBERS SCHEDULE

NAME	SIZE (IN MM)
GT-001	300 x 300
GT-002	300 x 300
GT-003	300 x 300
GT-004	300 x 300
IC-001	600 x 600
IC-002	600 x 600
IC-003	900 x 800
CH-001	600 x 600
CH-002	600 x 600
CH-003	600 x 600

NOTE: INVERT LEVELS ARE CALCULATED FROM F.G.L. 0.00

© HaskoningDHV Consulting Pvt. Ltd.



KEY PLAN

NOTES

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. THE DRAWING IS INDICATIVE AND USED AS GUIDELINE ONLY.
3. VENT PIPE SHALL BE ROUTED IN CEILING LEVEL AND SHALL BE RAISED ABOVE FLOOR LEVEL AS PER SITE CONDITIONS.
4. VENT COWL IS PROVIDED ABOVE THE TERRACE LEVEL ON TOP OF THE VERTICAL STACKS.
5. INVERT LEVEL OF CHAMBERS AND CHAMBER DETAILS ARE TO BE CONSIDER FROM EXTERNAL SEAWAGE LAYOUT.
6. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

	Ø160 UPVC WASTE PIPE
	Ø110 UPVC WASTE PIPE
	Ø75 UPVC WASTE PIPE
	Ø50 UPVC WASTE PIPE
	Ø32 UPVC WASTE PIPE
	Ø50 UPVC SOIL PIPE
	Ø110 UPVC SOIL PIPE
	Ø160 UPVC SOIL PIPE
	Ø75 UPVC VENT PIPE
	DRAIN / OVERFLOW LINE
	FLOOR TRAP (FT)
	URINAL TRAP (UT)
CO	CLEAN OUT
IC	INSPECTION CHAMBER
GT	GULLY TRAP

REFERENCE DRAWING NO.

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01 - CENTRAL CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

DI1530-RHD-ZZ-NG-DR-M-2153-A3-P01- LAYOUT PLAN OF SEWER NETWORK NORTH GUWAHATI

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61390000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

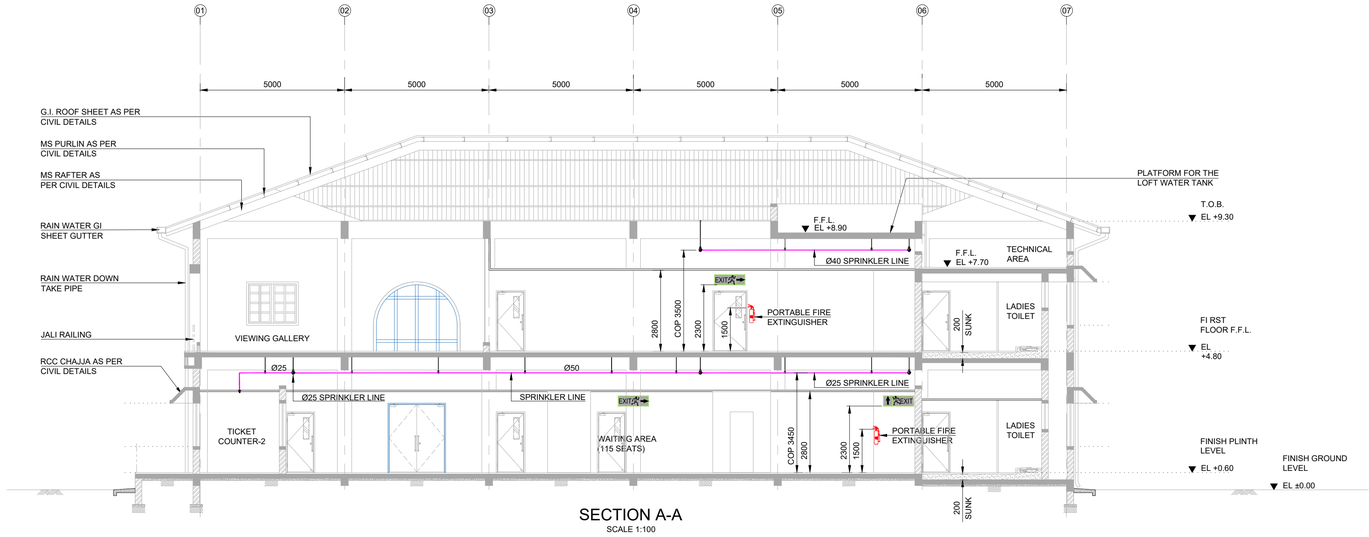
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- FLOOR PLANS - SEWAGE SYSTEM LAYOUT

DRAWN	CHECKED	APPROVED
PC	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

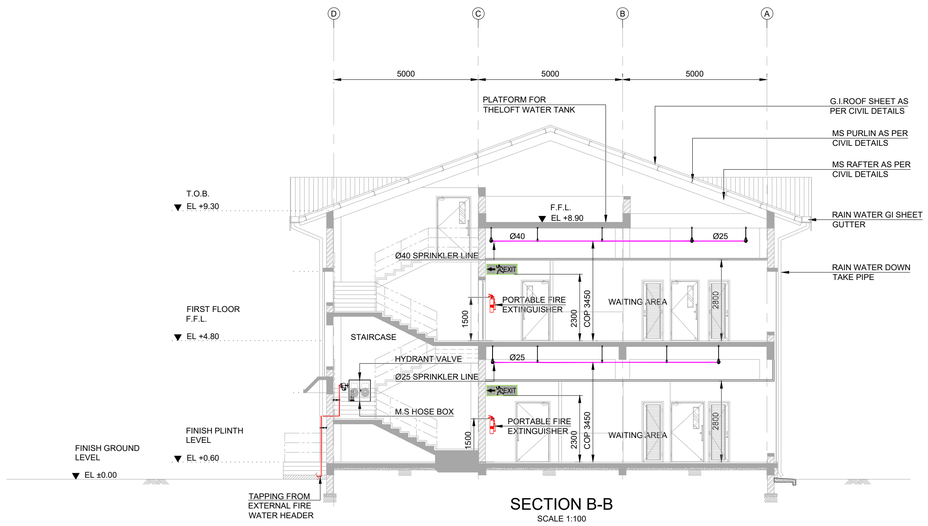
DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2196	A3	P01

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2197

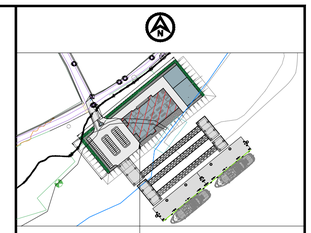
DO NOT SCALE



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100



KEY PLAN

NOTES

1. ALL DIMENSIONS & PIPE SIZES ARE IN MM & LEVELS IN M. UNLESS OTHERWISE STATED.
2. FIRE EXTINGUISHER TO BE INSTALLED AT A HEIGHT OF 1500mm FROM FFL.
3. COP - READ IT AS CENTER OF PIPE.
4. ORIFICE PLATES OF SUITABLE DESIGN SHALL BE PROVIDED IN THE LANDING VALVES, WHERE NECESSARY, TO LIMIT THE OPERATING PRESSURES
5. MINOR MODIFICATION IN PIPE ROUTING,PIPE SUPPORT & ORIENTATION OF NOZZLE SHALL BE DONE TO SUIT SITE CONDITION.

LEGEND:

- FIRE HYDRANT LINE
- SPRINKLER LINE
- REDUCER
- 63MM SINGLE HEAD INTERNAL HYDRANT
- FIRE HOSE REEL Ø25, 30M LG
- HOSE BOX, CONSISTING
  i) FOR INTERNAL HYDRANT Ø65 RRL HOSE 15M LENGTH X 2 NOS.
  ii) 1 NO. GUN METAL BRANCH PIPE
- PORTABLE FIRE EXTINGUISHER
- PENDANT SPRINKLER
- ISOLATION VALVE
- EXIT SIGNAGE

REFERENCE DRAWING NO.

DI1530-RHD-ZZ-NG-DR-A-2123-A3-P01- CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) SECTIONS

DI1530-RHD-ZZ-NG-DR-A-2121-A3-P01 - CENTRAL SIDE CLUSTER (NORTH GUWAHATI SITE) GROUND FLOOR & FIRST FLOOR PLANS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai – 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE) - FIRE FIGHTING - ELEVATIONS

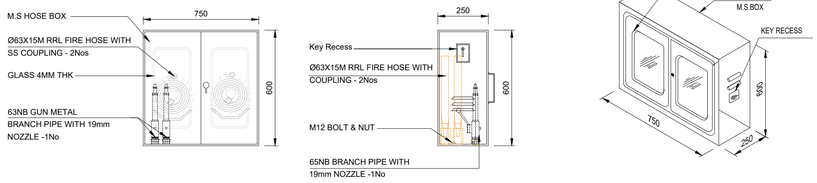
DRAWN	CHECKED	APPROVED
SS	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2197	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

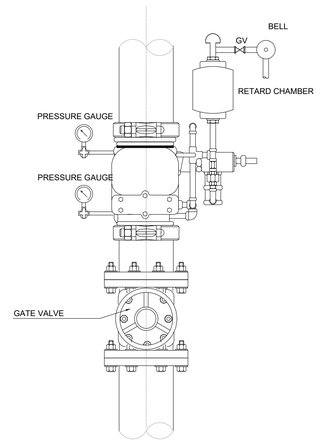
DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2198

DO NOT SCALE

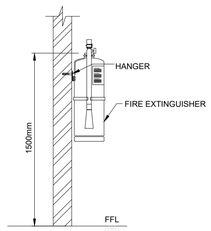


FRONT VIEW | SIDE VIEW | TYPICAL DETAIL HOSE BOX

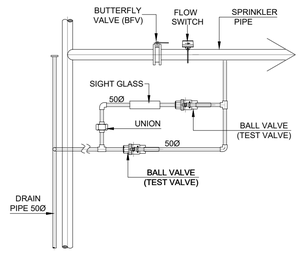
TYPICAL DETAIL FOR SELFSTANDING TYPE HOSE BOX
SCALE - NTS



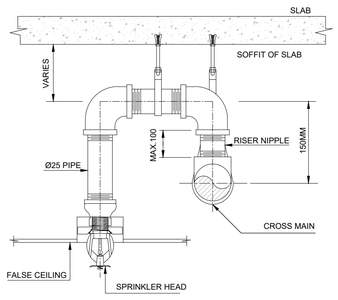
ALARM CHECK VALVE DETAIL
SCALE - NTS



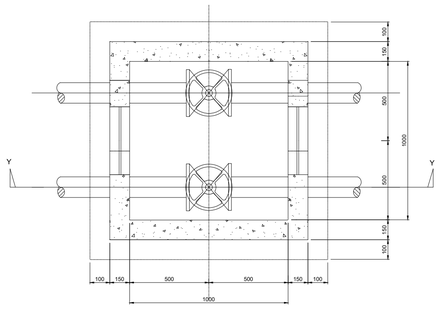
TYPICAL FIRE EXTINGUISHER INSTALLATION
OUTDOOR / INDOOR
SCALE - NTS



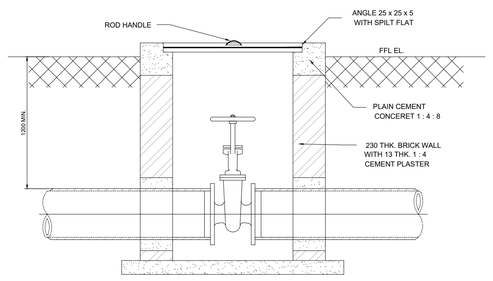
TYPICAL DETAIL FOR SPRINKLER SYSTEM
SCALE - NTS



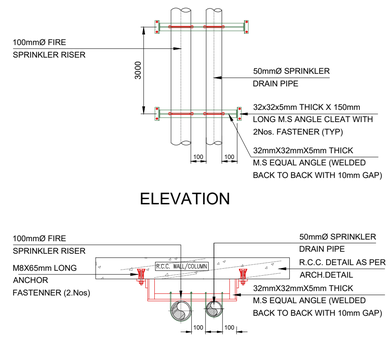
SPRINKLER HEAD TYP. (RECESSED PENDANT)
SCALE - NTS



TYP.VALVE CHAMBER DETAIL (PLAN)



SECTION Y-Y



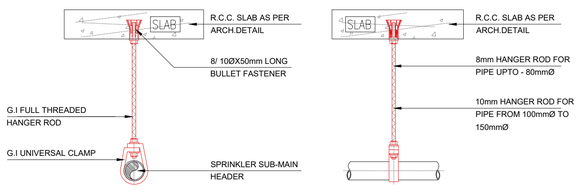
ELEVATION

PLAN

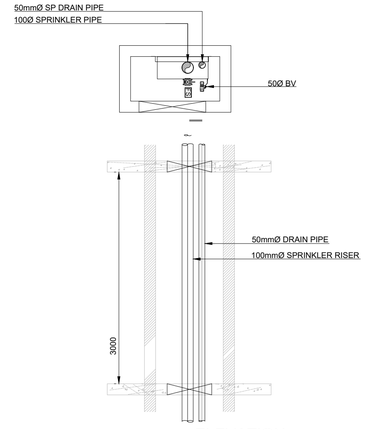
TYPICAL SUPPORT OF FIRE FIGHTING
PIPES IN FIRE SHAFT (DISTANCE
BETWEEN ANGLE SUPPORT 3M)
SCALE - NTS

PIPE SUPPORT DETAILS

PIPE SIZE	DISTANCE BETWEEN HANGERS (APPROX)	STUD ROD SIZES
25 MMØ	3.0 M.	8 MM.
32 MMØ	3.0 M.	8 MM.
40 MMØ	3.0 M.	8 MM.
50 MMØ	3.0 M.	8 MM.
65 MMØ	3.0 M.	8 MM.
80 MMØ	3.0 M.	8 MM.
100/150MMØ	2.0 M.	10 MM.



TYPICAL SUPPORT DETAILS FOR 25mmØ TO 100mmØ
CEILING SUSPENDED FIRE SPRINKLER/HYDRANT PIPE
(DISTANCE BETWEEN HI-TECH SUPPORT 3m C/C)



ELEVATION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)-
TYPICAL DETAILS FOR
FIRE FIGHTING

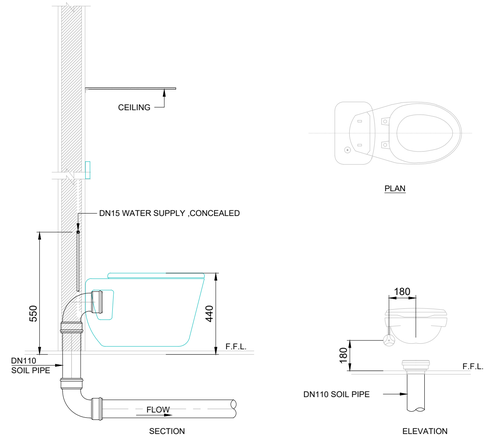
DRAWN	CHECKED	APPROVED
SS	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2198	A3	P01

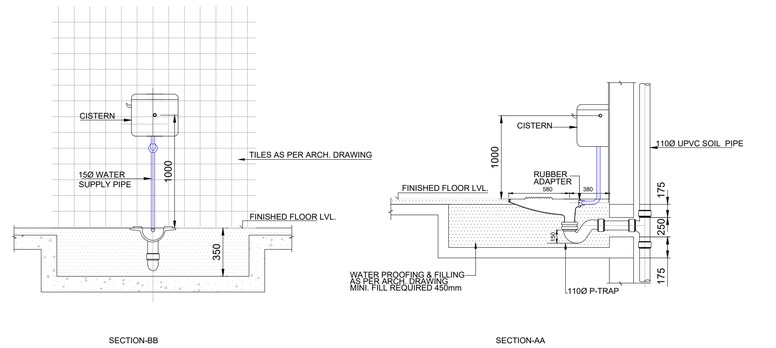
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530 -RHD-ZZ-NG-DR-M-2199

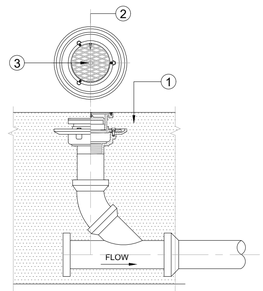
DO NOT SCALE



WATER SUPPLY / DRAIN FOR WATER CLOSET

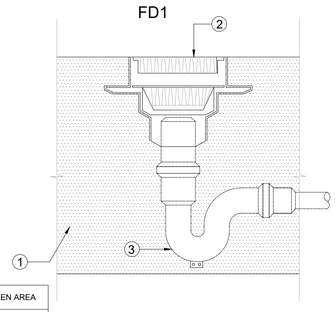


INDIAN WATER CLOSET WITH FLUSH VALVE



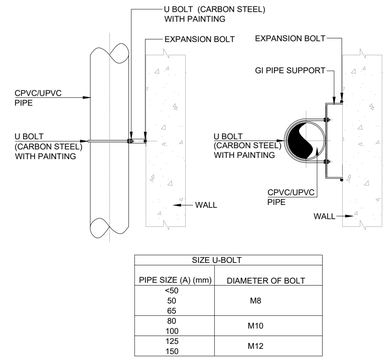
①	SUNKEN AREA
②	CLEANOUT COVER
③	CLEANOUT PLUG

DETAIL FLOOR CLEAN OUT



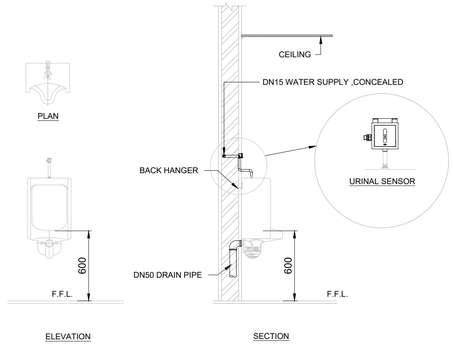
①	SUNKEN AREA
②	FLOOR DRAIN
③	P - TRAP

DETAIL FLOOR DRAIN (FD1) / SHOWER TRAY

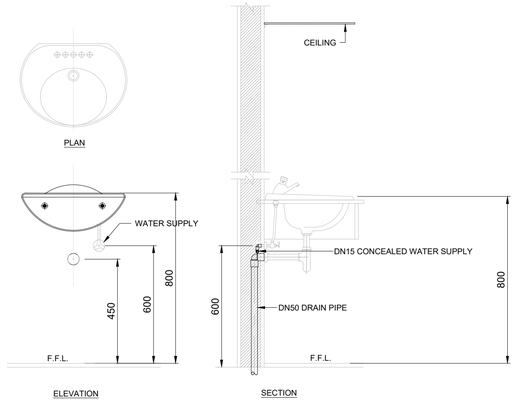


SIZE U-BOLT	
PIPE SIZE (A) (mm)	DIAMETER OF BOLT
<50 50 65	M8
80 100	M10
125 150	M12

TYPICAL INSTALLATION OF VERTICAL PIPE



WATER SUPPLY/DRAIN FOR WALL URINAL



WATER SUPPLY/DRAIN FOR WASH BASIN

©HaskoningDHV Consulting Pvt. Ltd.

NOTES

1. THE FIXTURE DETAILS ARE INDICATIVE AND SHALL BE CONSIDER AS PER TECHNICAL SPECIFICATIONS.

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	PC	SG	JRS

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel: +91 (0) 22 61395000
Email:info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

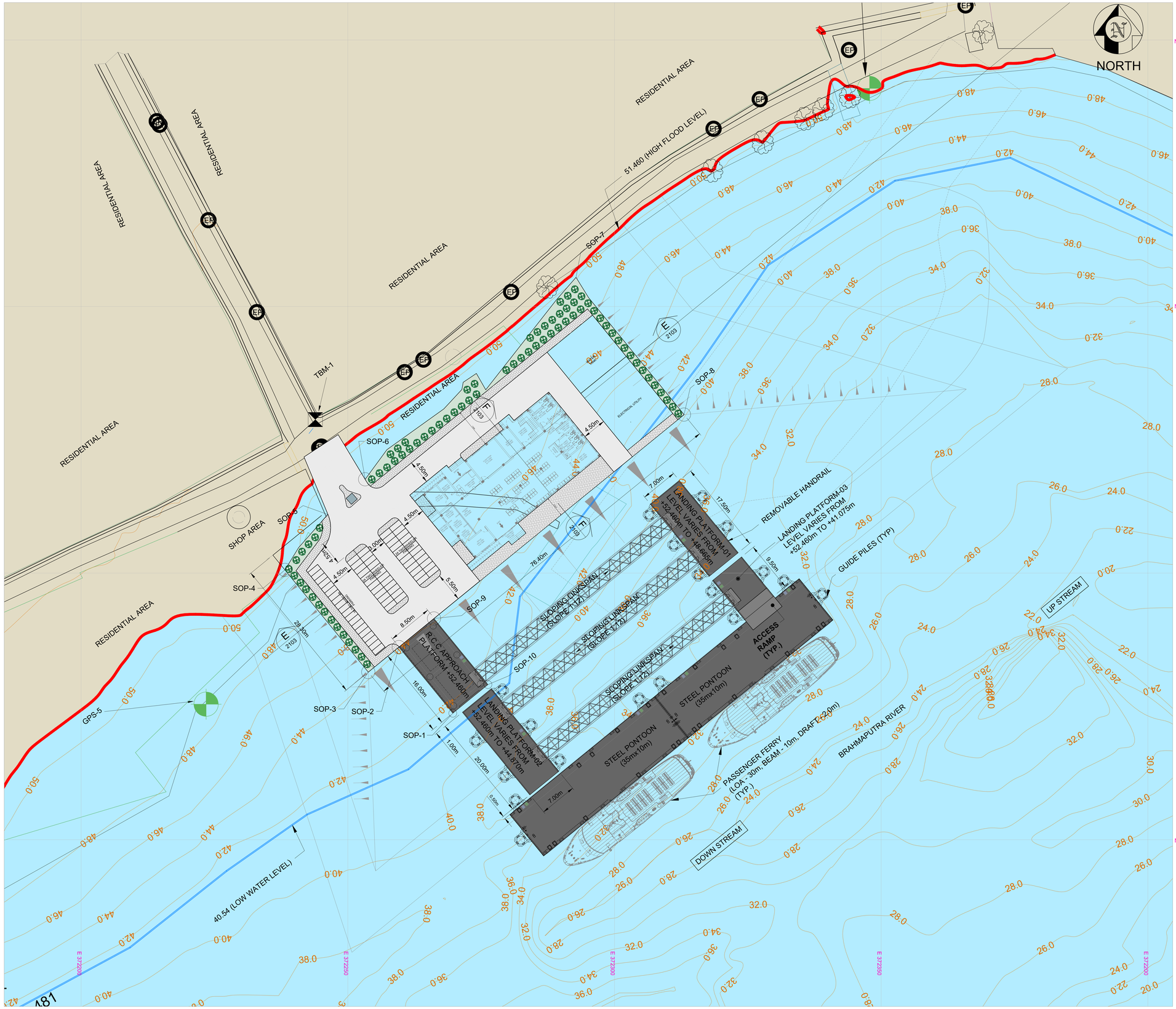
TITLE
CENTRAL CLUSTER (NORTH GUWAHATI SITE)- TYPICAL DETAILS FOR DRAINAGE & WATER

DRAWN	CHECKED	APPROVED
SS	SG	JRS
DATE: FEB. 2023	SCALE @A1: AS SHOWN	REF.

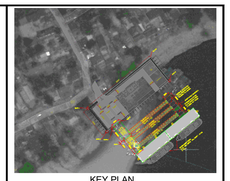
DRAWING No.	SUITABILITY	REVISION
DI1530 -RHD-ZZ-NG-DR-M-2199	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2101

DO NOT SCALE



OVERALL LAYOUT
SCALE 1:250



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. REFERENCE ELEVATION AND HFL(51.460) WAS OBTAINED FROM CWC OFFICE .
6. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.54m AT NORTH GUWAHATI LOCATION.
7. THALWEG LINE DISTANCE FROM HFL IS ABOUT 1000 m DURING FLOOD SEASON AND 750 m DURING LEAN SEASON
8. REFERENCE PILLAR CO-ORDINATES & LEVELS AT NORTH GUWAHATI.

REFERENCE POINT	EASTING (m)	NORTHING (m)	LEVEL (m)
RP-1	372347.830	2896990.912	51.237
RP-4	372407.572	2896987.572	49.576
GPS-5	372223.431	2896875.410	48.834
TBM-1	372243.913	2896928.799	51.312

LEGEND

SL.NO.	DESCRIPTION	SYMBOL
1.	ELECTRIC POST / LIGHT POST	
2.	BOUNDARY WALL / FENCE LINE	
3.	CULVERT / TEMPORARY BENCH MARK	
4.	ROAD (METALLED / CONCRETE)	
5.	ROAD (KUTCHA) / TELEPHONE POST	
6.	TREE / REFERENCE POINT	
7.	SPOT ELEVATION / GATE	
8.	CONTOUR	
9.	UNDER CONSTRUCTION BLDG	
10.	WATER EDGE (ASSUMED LWL)	
11.	HIGH FLOOD LEVEL	
12.	CANAL	

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
2.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
3.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
4.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
5.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

SETTING-OUT POINT CO-ORDINATES

SOP's	EASTING (m)	NORTHING (m)
SOP-1	372269.686	2896873.717
SOP-2	372259.572	2896886.115
SOP-3	372253.838	2896881.438
SOP-4	372235.947	2896903.362
SOP-5	372246.268	2896911.012
SOP-6	372253.247	2896917.590
SOP-7	372295.148	2896951.660
SOP-8	372313.037	2896929.731
SOP-9	372266.158	2896891.488
SOP-10	372276.272	2896879.090

LEGEND :

HFL - HIGH FLOOD LEVEL
LWL - LOW WATER LEVEL
FGL - FINISHED GROUND LEVEL
- RIVER WATER AREA
- LAND AREA
- ACCESS RAMP
- WASTE BINS

FOR TENDER
NOT FOR CONSTRUCTION

P01	10/02/2023	ISSUED FOR TENDER		TSM	MB	AK
REV	DATE	DESCRIPTION		BY	CHK	APP

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
4Q-005, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61390000
Email:info.india@dhlhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
OVERALL LAYOUT

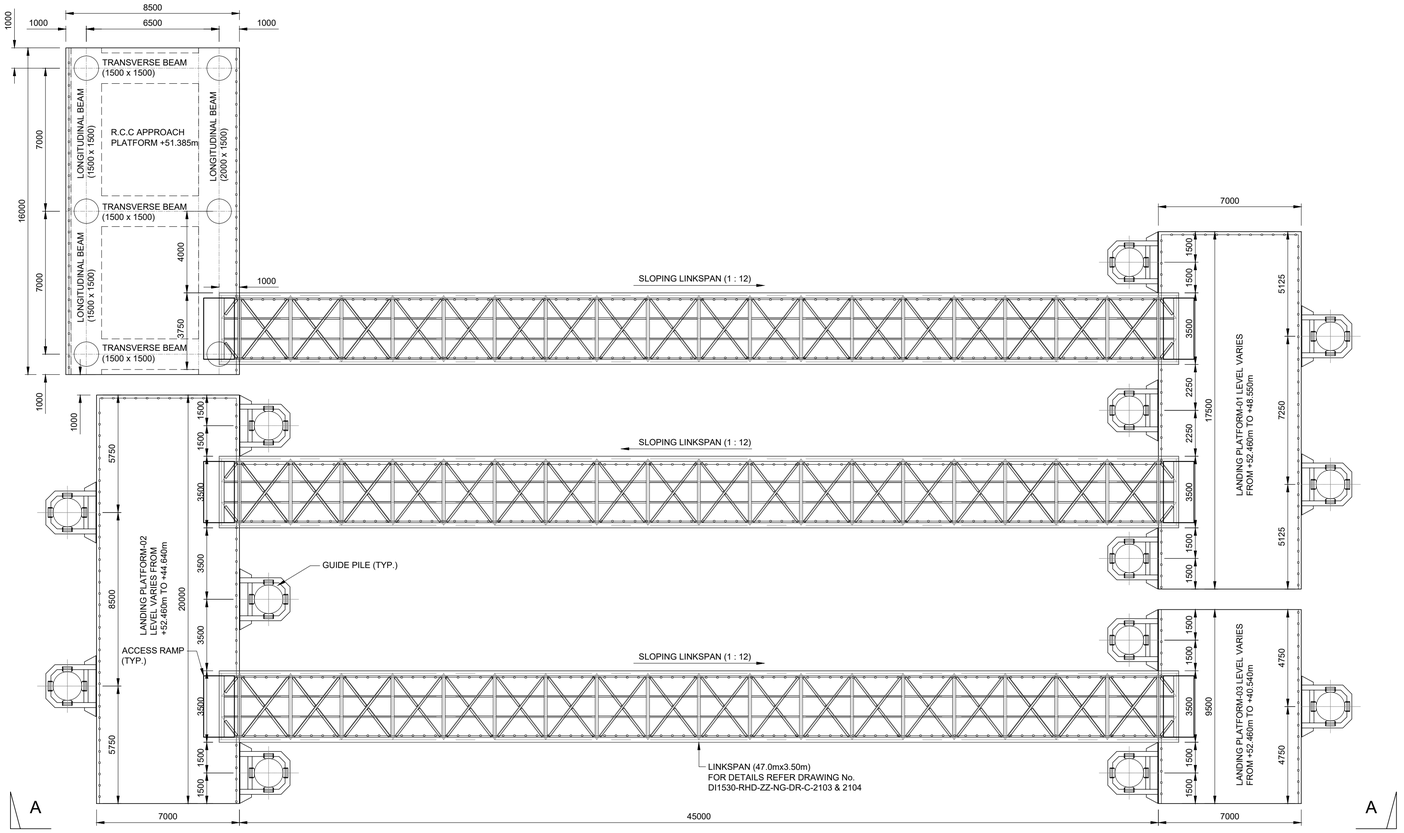
DRAWN	SNJ	CHECKED	SVK	APPROVED	AK
DATE	FEB 2023	SCALE @A0	AS SHOWN	REF.	

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2101	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

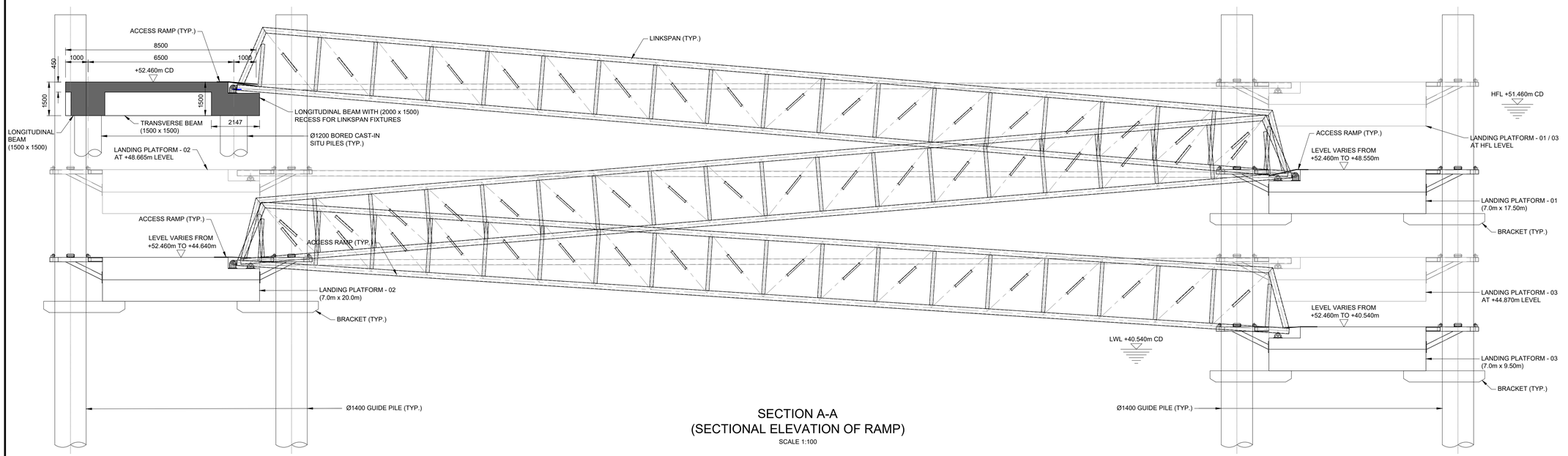
DRG No.
DI1530-RHD-ZZ-NG-DR-C-2102

DO NOT SCALE



GENERAL ARRANGEMENT LAYOUT

SCALE 1:150



SECTION A-A
(SECTIONAL ELEVATION OF RAMP)

SCALE 1:100

© HaskoningDHV Consulting Pvt. Ltd

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
6. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00m AT NORTH GUWAHATI LOCATION.

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2101	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
3.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
4.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
5.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

LEGEND :

HFL	- HIGH FLOOD LEVEL
LWL	- LOW WATER LEVEL
FGL	- FINISHED GROUND LEVEL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	ABS	MB	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

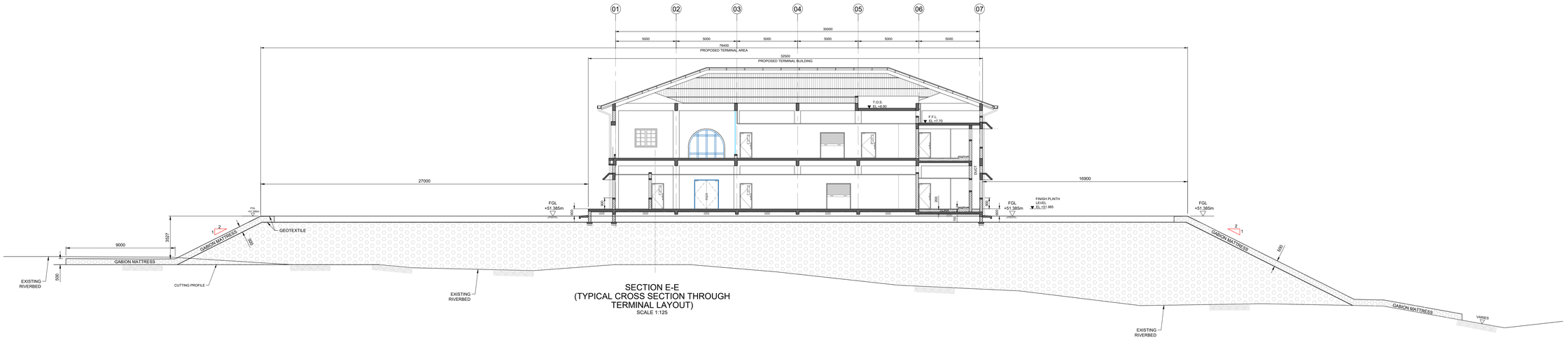
TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
GENERAL ARRANGEMENT & SECTIONAL ELEVATION

DRAWN	CHECKED	APPROVED
AAB	MB	AK
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.: -

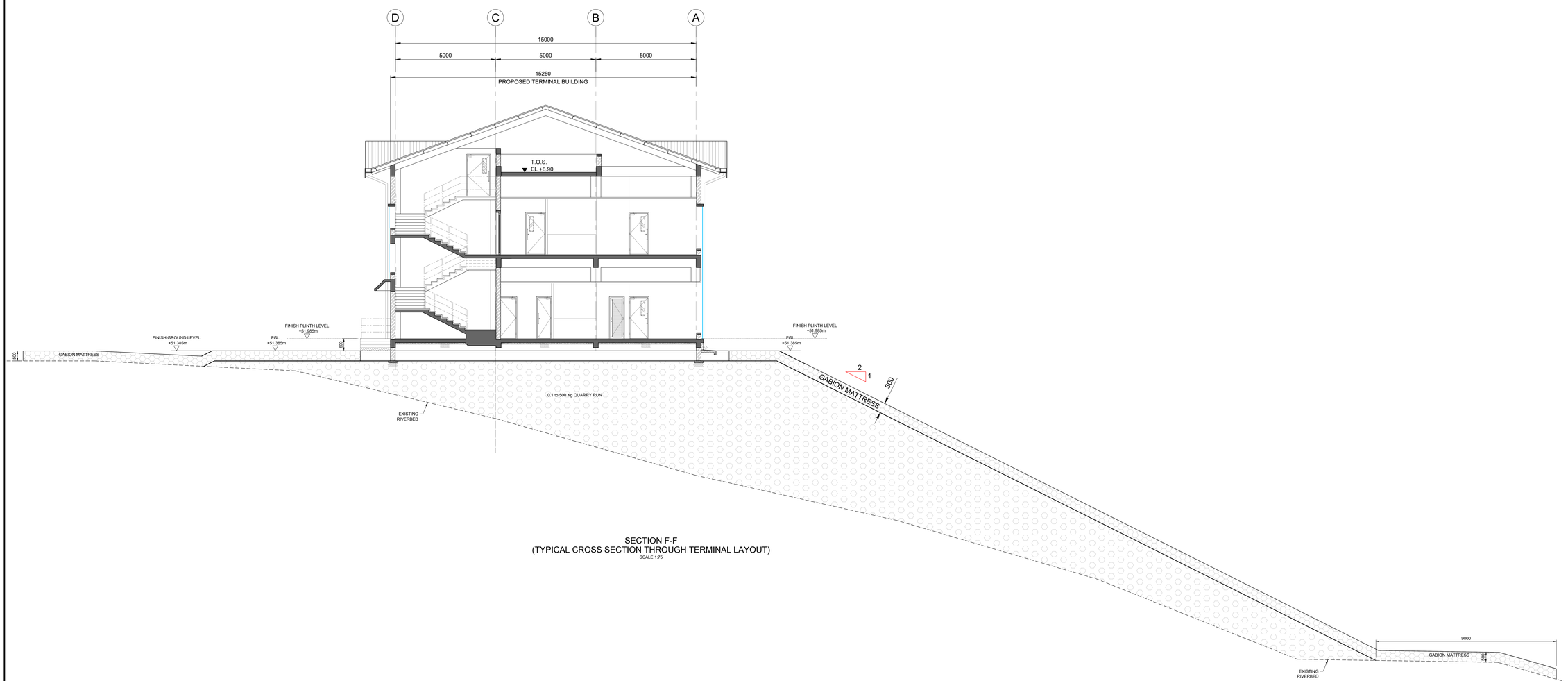
DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2102	A3	P01

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2103

DO NOT SCALE



SECTION E-E
(TYPICAL CROSS SECTION THROUGH
TERMINAL LAYOUT)
SCALE 1:125



SECTION F-F
(TYPICAL CROSS SECTION THROUGH TERMINAL LAYOUT)
SCALE 1:75

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
4. REFERENCE RL OBTAINED FROM CWC OFFICE. HFL=87.370m & BM=87.370m.
5. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 79.90m AT NEAMATI GHAT SITE LOCATION.

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
4.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
5.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	10/02/2023	ISSUED FOR TENDER	TSM	MB	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
302-305, 6th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61360000
Email:info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

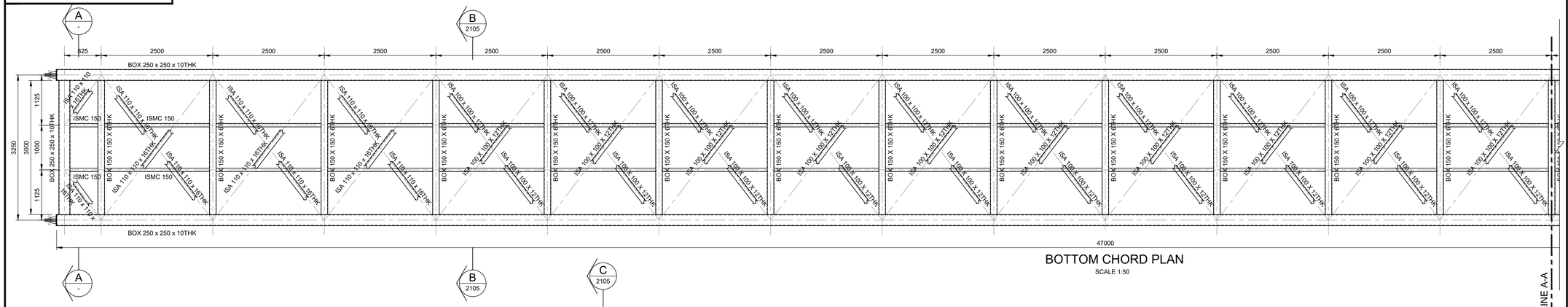
TITLE
NORTH CLUSTER
(NORTH GUWAHATI SITE)
CROSS SECTION PROPOSED TERMINAL BUILDING FGL

DRAWN	RVA	CHECKED	SVK / JAK	APPROVED	AK
DATE	FEB 2023	SCALE @A0	AS SHOWN	REF.	
DRAWING No.	DI1530-RHD-ZZ-NG-DR-C-2103			SUITABILITY	A3
				REVISION	P01

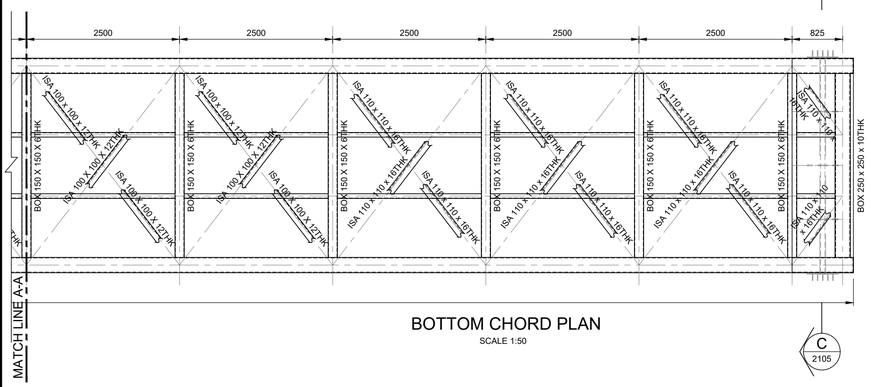
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2104

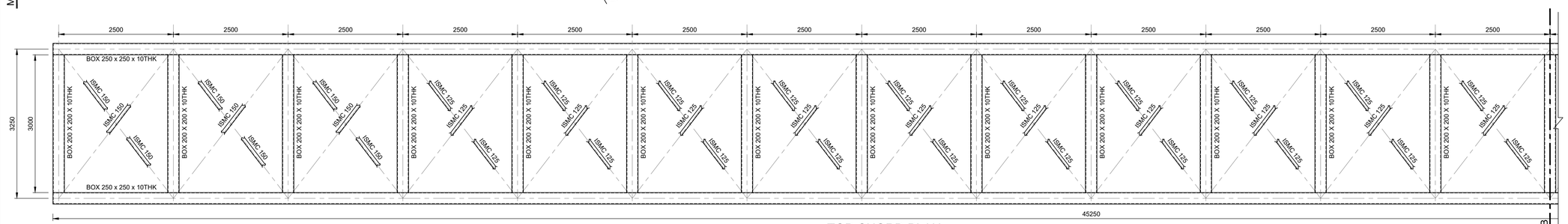
DO NOT SCALE



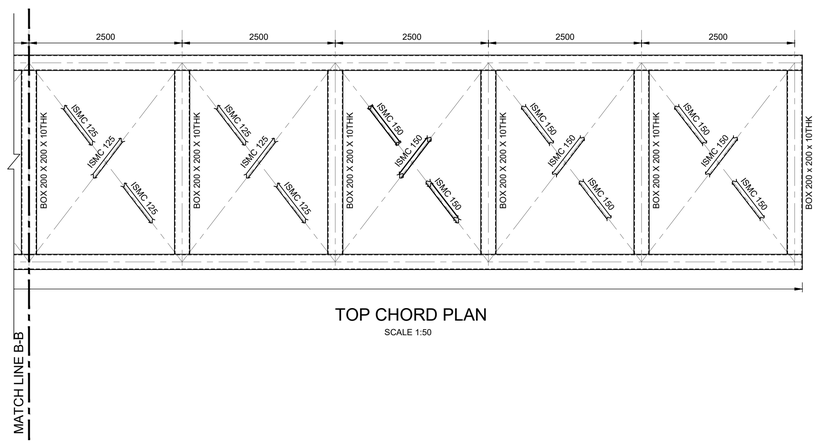
BOTTOM CHORD PLAN
SCALE 1:50



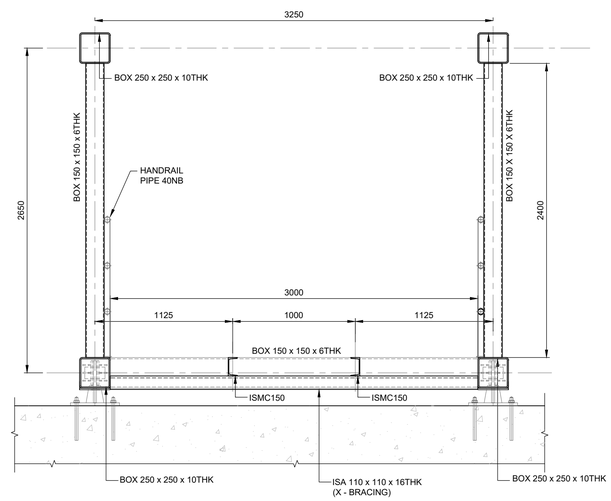
BOTTOM CHORD PLAN
SCALE 1:50



TOP CHORD PLAN
SCALE 1:50



TOP CHORD PLAN
SCALE 1:50



SECTION A-A
SCALE 1:25

NOTE: IN THIS CASE LINKSPAN IS SUPPORTED ON CONCRETE PLATFORM BUT OTHER SCENARIO BOTH END OF THE LINKSPAN RESTS ON FLOATING PLATFORM.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS , UNLESS NOTED OTHERWISE.
2. ANY ELEMENTS OR OBJECT THAT ARE NOT DIMENSIONED SHALL NOT BE SCALED UNDER ANY CIRCUMSTANCES. THEY SHALL BE AGREED / CONFIRMED WITH THE EMPLOYER / ENGINEER.
3. STEEL GRADE SHALL BE S355.
4. ALL JUNCTION CONNECTION SHALL BE DESIGNED FOR FULL MEMBER CAPACITY.
5. STEEL STRUCTURAL MEMBERS SHALL BE PROTECTED WITH ANTICORROSIVE PAINTING.

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2101	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
5.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	YSK	AR	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL SIDE CLUSTER
(NORTH GUWAHATI SITE)
STEEL LINK SPAN
GENERAL ARRANGEMENT
(SHEET 1 OF 2)

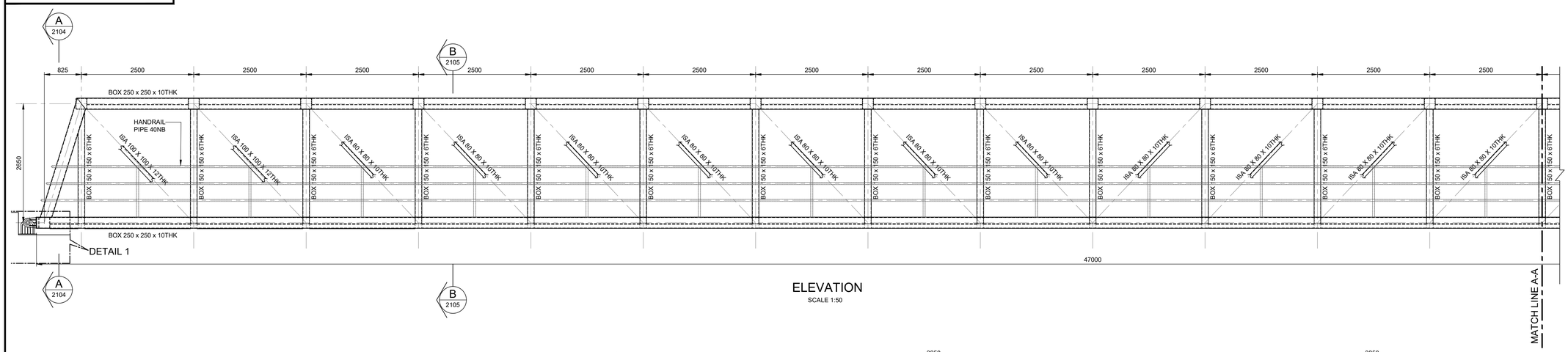
DRAWN	CHECKED	APPROVED
YSK	AR	AK
DATE FEB 2023	SCALE @A1 AS SHOWN	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2104	A3	P01

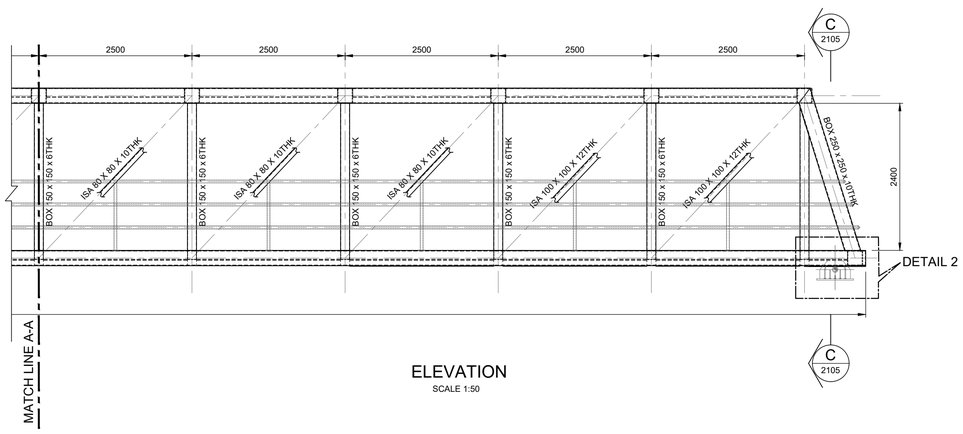
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2105

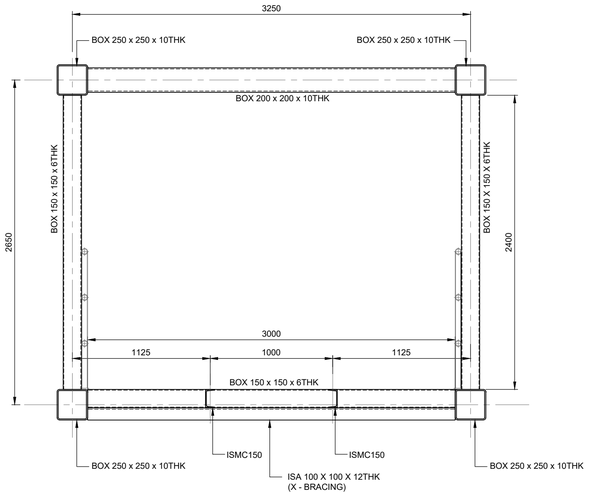
DO NOT SCALE



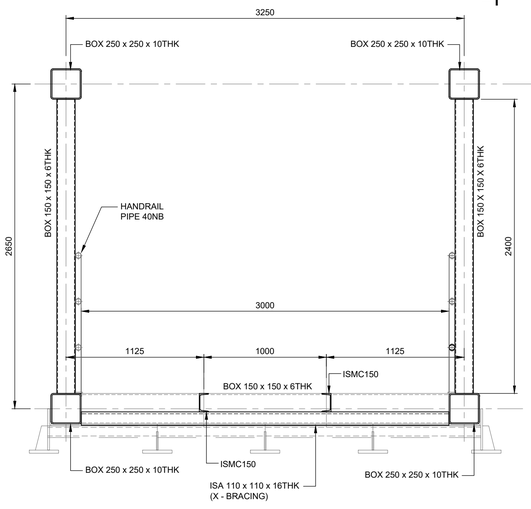
ELEVATION
SCALE 1:50



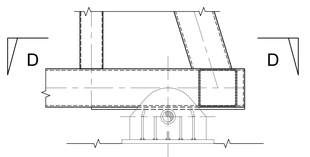
ELEVATION
SCALE 1:50



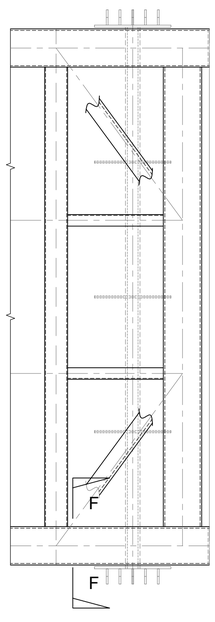
SECTION B-B
SCALE 1:25



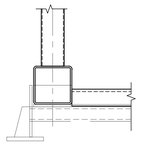
SECTION C-C
SCALE 1:25



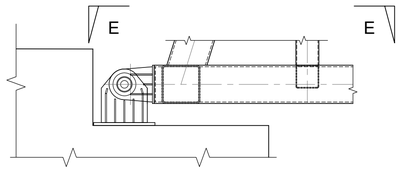
DETAIL-2
SCALE 1:20



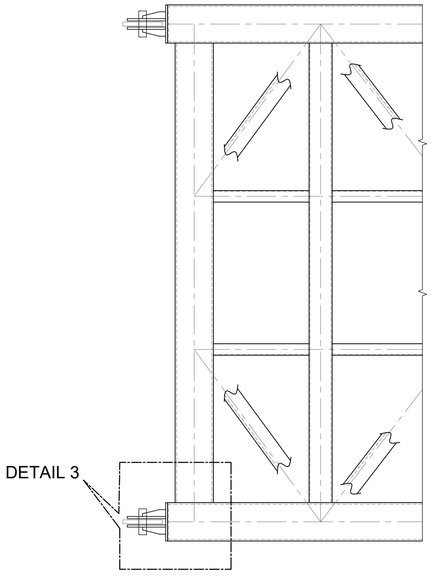
SECTION D-D
SCALE 1:20



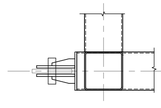
SECTION F-F
SCALE 1:20



DETAIL 1
SCALE 1:20



SECTION E-E
SCALE 1:20



DETAIL 3
SCALE 1:20

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS , UNLESS NOTED OTHERWISE.
2. ANY ELEMENTS OR OBJECT THAT ARE NOT DIMENSIONED SHALL NOT BE SCALED UNDER ANY CIRCUMSTANCES. THEY SHALL BE AGREED / CONFIRMED WITH THE EMPLOYER / ENGINEER.
3. STEEL GRADE SHALL BE S355.
4. ALL JUNCTION CONNECTION SHALL BE DESIGNED FOR FULL MEMBER CAPACITY.
5. STEEL STRUCTURAL MEMBERS SHALL BE PROTECTED WITH ANTICORROSIVE PAINTING.

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2101	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
5.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15/02/2023	ISSUED FOR TENDER	YSK	AR	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 6th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL SIDE CLUSTER
(NORTH GUWAHATI SITE)
STEEL LINK SPAN
GENERAL ARRANGEMENT
(SHEET 2 OF 2)

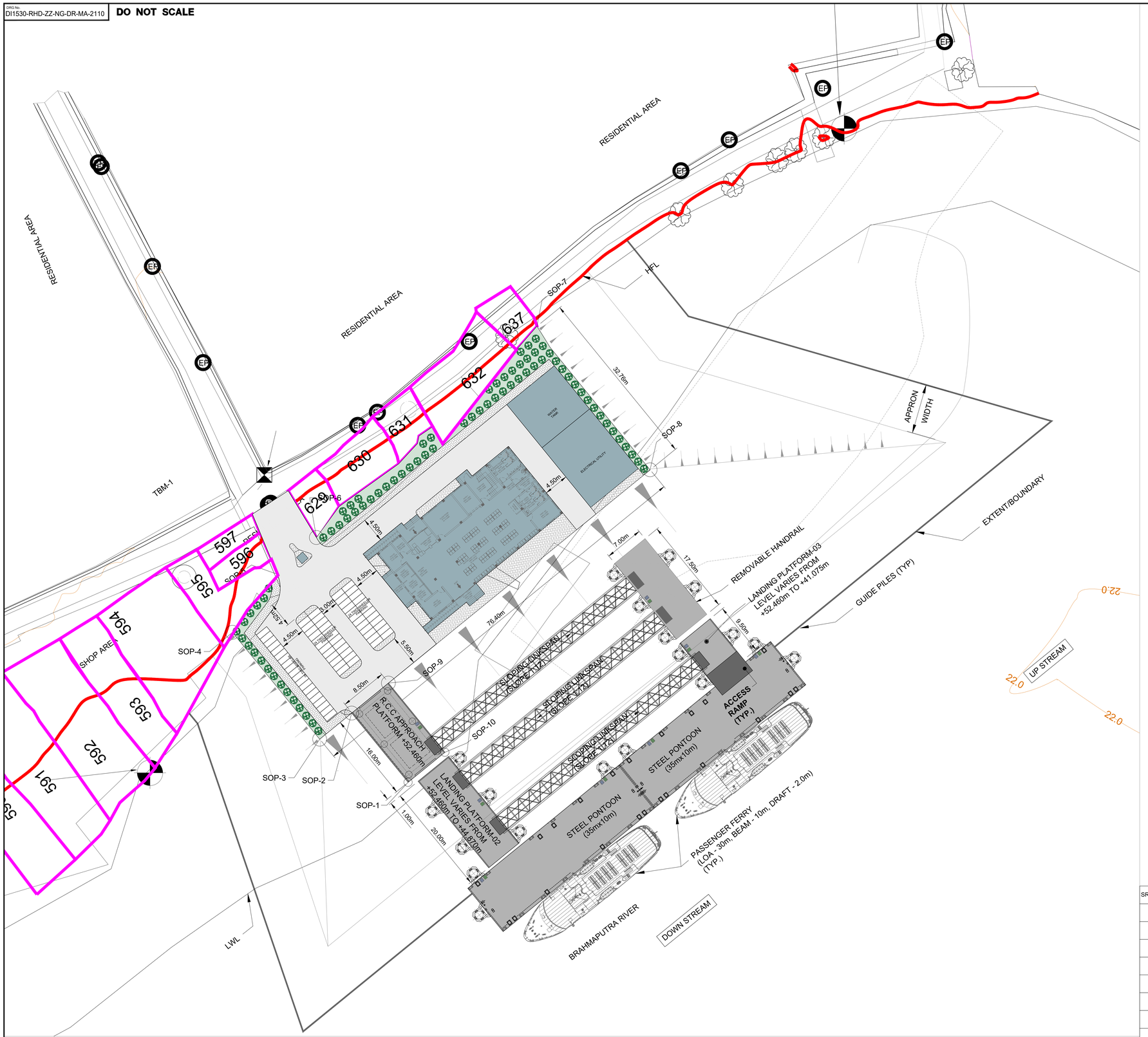
DRAWN	CHECKED	APPROVED
YSK	AR	AK
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.: -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2105	A3	P01

© HaskoningDHV Consulting Pvt. Ltd

DRG No.
DI1530-RHD-ZZ-NG-DR-MA-2110

DO NOT SCALE



NORTH GUWAHATI LAYOUT
SCALE 1:250

SR. NO.	DAAG NO.	NO. OF USER	DAAG AREA FROM TRACE MAP (SQ.M)	AREA REQUIRED (SQ.M.)	LAND OWNERSHIP
1	591	26	350	0	PRIVATE
2	592	5	351	0	PRIVATE
3	593	4	203	0	PRIVATE
4	594	5	337	0	PRIVATE
5	595	NA	142	0	GOVERNMENT
6	596	NA	50	0	GOVERNMENT
7	629	2	59	0	PRIVATE
8	630	NA	116	0	GOVERNMENT
9	631	1	70	0	PRIVATE
10	632	NA	192	0	GOVERNMENT
11	637	NA	64	0	GOVERNMENT

NORTH



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
4. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
5. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
6. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00m AT NORTH GUWAHATI LOCATION.

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
5.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

SETTING-OUT POINT CO-ORDINATES

SOP's	EASTING (m)	NORTHING (m)
SOP-1	372269.686	2896873.717
SOP-2	372259.572	2896886.115
SOP-3	372253.838	2896881.438
SOP-4	372235.947	2896903.362
SOP-5	372246.268	2896911.012
SOP-6	372253.247	2896917.590
SOP-7	372295.148	2896951.660
SOP-8	372313.037	2896929.731
SOP-9	372266.158	2896891.488
SOP-10	372276.272	2896879.090

LEGEND :

HFL - HIGH FLOOD LEVEL
LWL - LOW WATER LEVEL
FGL - FINISHED GROUND LEVEL
- SLOPE FOR PHYSICALLY CHALLENGED PEOPLE
- ACCESS RAMP
- WASTE BINS

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	19022023	ISSUED FOR TENDER	TSM	JAK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
302-306, 6th Floor, Platina-III, Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61356000
Email info.india@dhvhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
LAND AREA REQUIRMENT

DRAWN	CHECKED	APPROVED
SNJ	SVK	AK

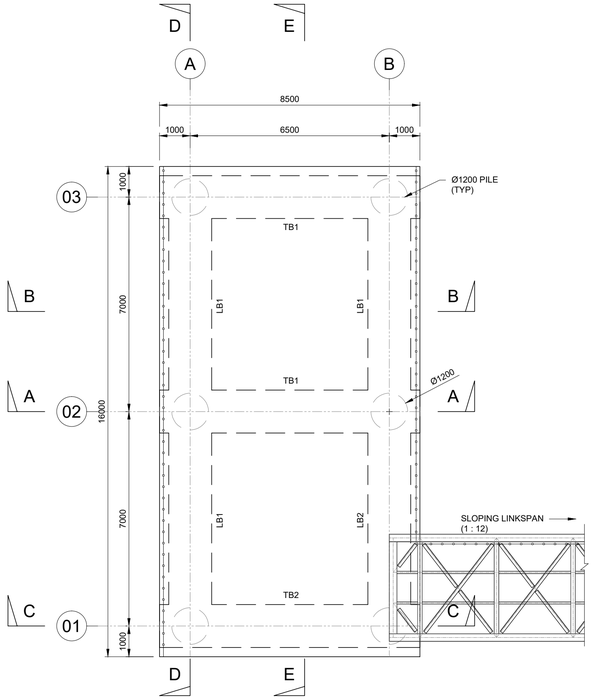
DATE	SCALE @A0	REF.
FEB 2023	AS SHOWN	

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-MA-2110	A3	P01

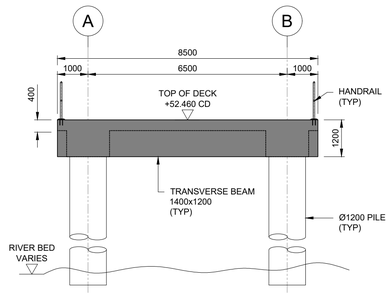
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2111

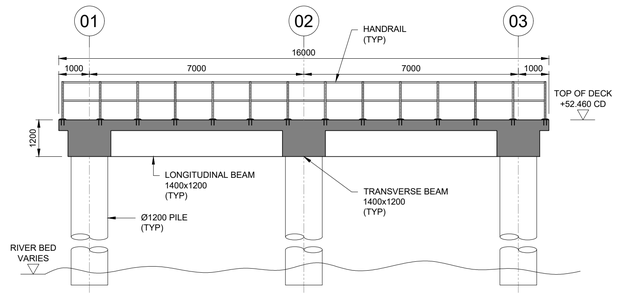
DO NOT SCALE



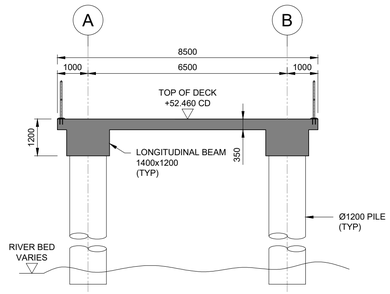
APPROACH PLATFORM AT +52.460m
SCALE 1:100



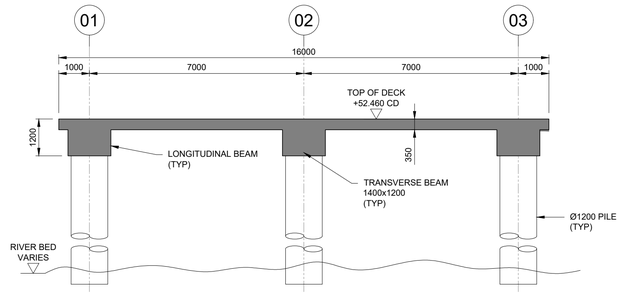
SECTION A-A
SCALE 1:100



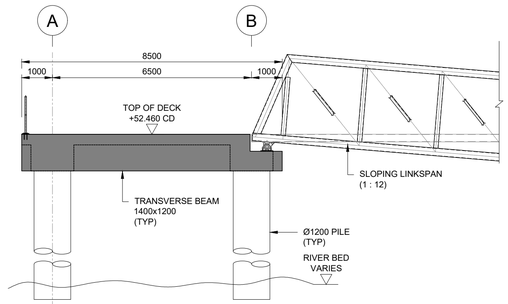
SECTION D-D
SCALE 1:100



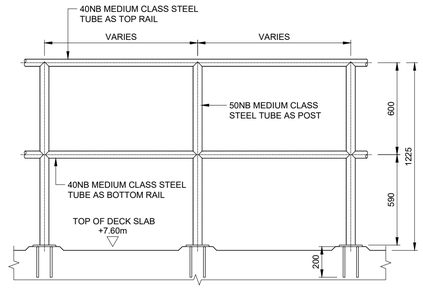
SECTION B-B
SCALE 1:100



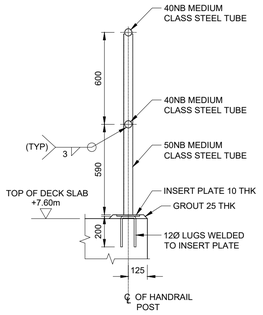
SECTION E-E
SCALE 1:100



SECTION C-C
SCALE 1:100



TYPICAL ELEVATION OF HANDRAIL
SCALE 1:20



TYPICAL DETAIL OF HANDRAIL
SCALE 1:20

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER,UNLESS NOTED OTHERWISE.
2. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
3. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00M AT NORTH GUWAHATI LOCATION.
4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
5. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
6. THE CONTRACTOR CAN CHOOSE APPROPRIATE ALTERNATIVE CONSTRUCTION METHODS (PRECAST, PRECAST COMPOSITE OR CAST-IN SITU) AS PER HIS EXPERTISE.
7. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURE INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
8. THE TOP SIDE FACILITIES SHOWN IN THE DRAWING ARE INDICATIVELY ONLY. THE TOP SIDE FACILITIES SHALL BE DESIGNED BY THE CONCESSIONAIRE AND ACCORDINGLY RESIDUAL ENGINEERING SHALL BE CARRIED OUT TO ASCERTAIN THE ADEQUACY OF THE PROPOSED FACILITY.
9. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURAL INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
10. CONCRETE GRADE SHALL BE M40 WITH ORDINARY PORTLAND CEMENT OF 53 GRADE CONFIRMING TO IS 269 : 2015.
11. ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (HSD) BARS CONFIRMING TO IS:1786 GRADE FE500D (CORROSION RESISTANT). CUTTING, BENDING AND FIXING OF REINFORCEMENT SHALL BE AS PER IS:2502.

LEGEND:

PC - PILE CAP

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
5.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	RVA	SRC	SD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
APPROACH GENERAL ARRANGEMENT & SECTIONAL ELEVATION

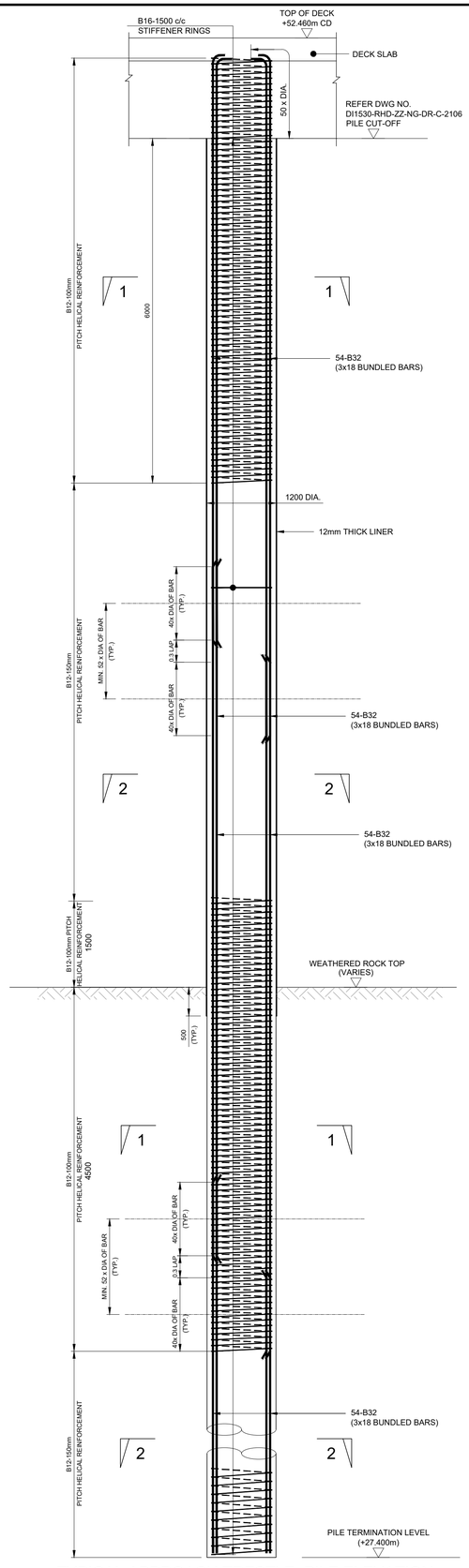
DRAWN RVA	CHECKED SRC	APPROVED SD
DATE FEB' 2023	SCALE @A1 AS SHOWN	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2111	A3	P01

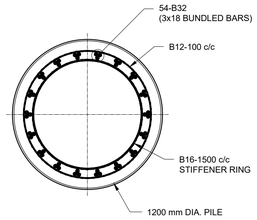
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2112

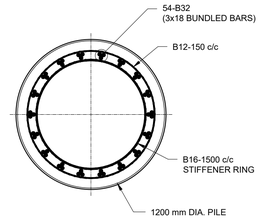
DO NOT SCALE



TYPICAL APPROACH TRESTLE PILE ELEVATION
SCALE 1:50



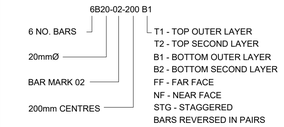
SECTION 1-1
SCALE 1:25



SECTION 2-2
SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER,UNLESS NOTED OTHERWISE.
2. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
3. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00M AT NORTH GUWAHATI LOCATION.
4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
5. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
6. THE CONTRACTOR CAN CHOOSE APPROPRIATE ALTERNATIVE CONSTRUCTION METHODS (PRECAST, PRECAST COMPOSITE OR CAST-IN SITU) AS PER HIS EXPERTISE.
7. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURE INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
8. CONCRETE GRADE SHALL BE M40 WITH ORDINARY PORTLAND CEMENT OF 53 GRADE CONFIRMING TO IS 269 : 2015.
9. ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (HSD) BARS CONFIRMING TO IS:1786 GRADE Fe500D (CORROSION RESISTANT). CUTTING, BENDING AND FIXING OF REINFORCEMENT SHALL BE AS PER IS:2502.
10. CLEAR COVER TO REINFORCEMENT SHALL BE 75mm.
11. THE BENDING OF REINFORCEMENT SHALL CONFORM TO IS-2502 AND DETAILING SHALL CONFORM TO SP:34 PUBLISHED BY BIS.
12. THE ANCHORAGE LENGTH OF ANY BAR SHALL BE 50 TIMES DIA OF BAR.
13. THE LAP LENGTH SHALL BE 40 TIMES DIA OF BAR. THE LAP SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY LOCATION.
14. REINFORCEMENT CALL UPS FOLLOW THIS CONVENTION:



REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2106	APPROACH GENERAL ARRANGEMENT & SECTIONAL ELEVATION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	RVA	SRC	SD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
APPROACH TRESTLE
PILE REINFORCEMENT
DETAILS

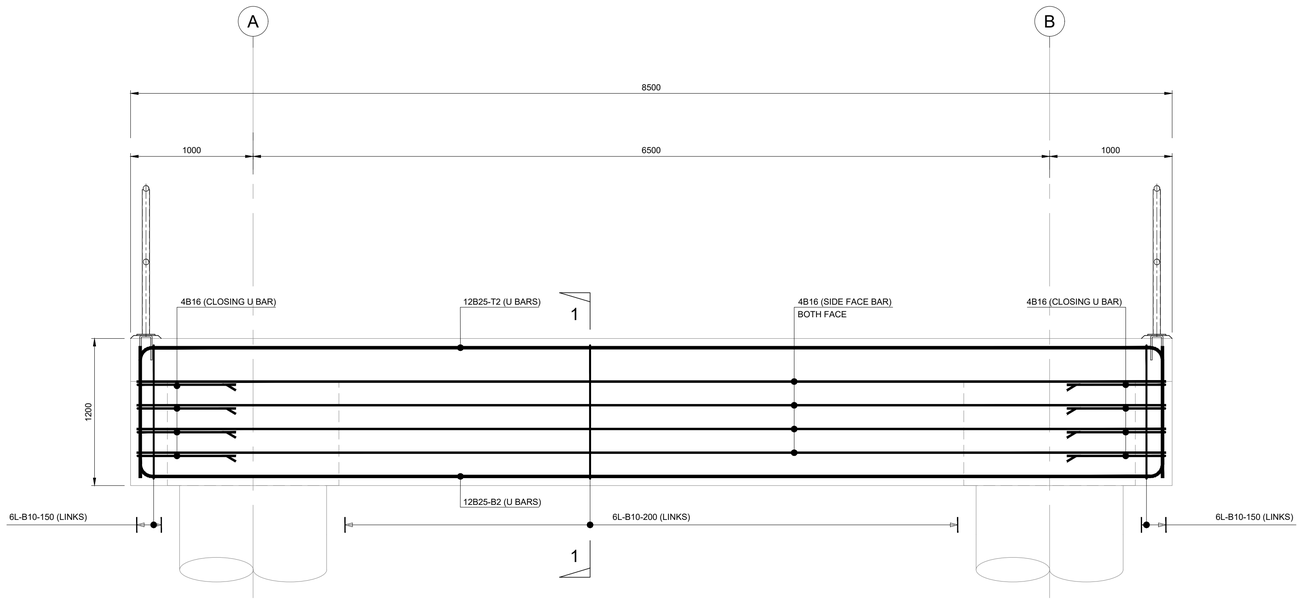
DRAWN	CHECKED	APPROVED
RVA	SRC	SD
DATE: FEB' 2023	SCALE: @A1 AS SHOWN	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2112	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

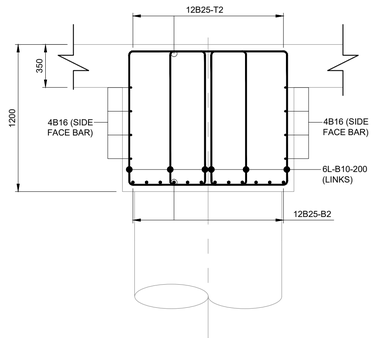
DRG No.
DI1530-RHD-ZZ-NG-DR-C-2113

DO NOT SCALE



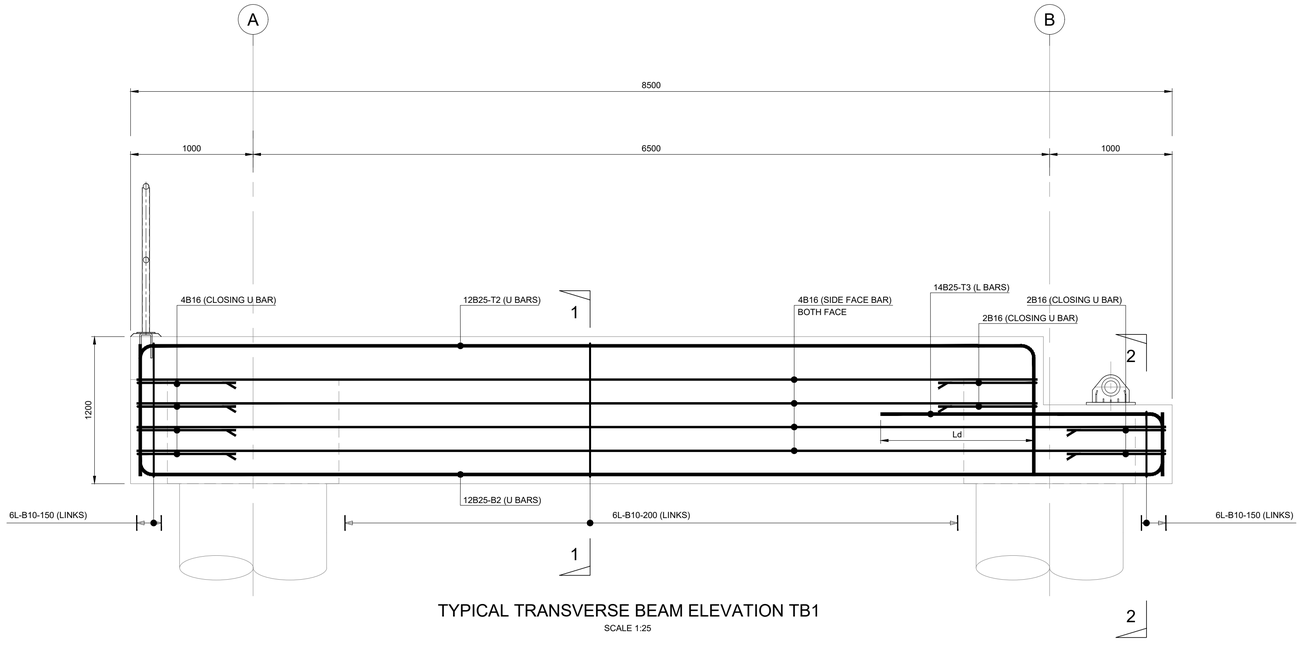
TYPICAL TRANSVERSE BEAM ELEVATION TB1

SCALE 1:25



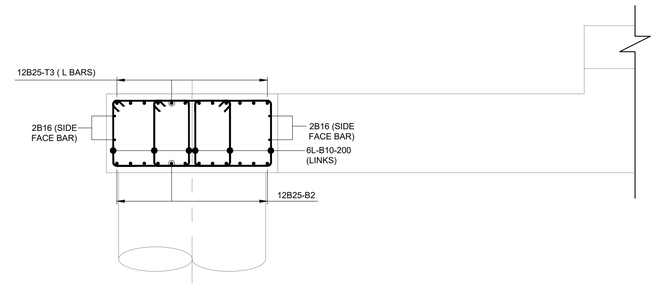
SECTION 1-1

SCALE 1:25



TYPICAL TRANSVERSE BEAM ELEVATION TB1

SCALE 1:25

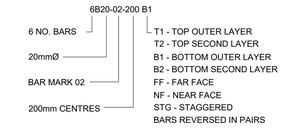


SECTION 2-2

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER,UNLESS NOTED OTHERWISE.
2. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
3. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00M AT NORTH GUWAHATI LOCATION.
4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
5. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
6. THE CONTRACTOR CAN CHOOSE APPROPRIATE ALTERNATIVE CONSTRUCTION METHODS (PRECAST, PRECAST COMPOSITE OR CAST-IN SITU) AS PER HIS EXPERTISE.
7. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURE INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
8. CONCRETE GRADE SHALL BE M40 WITH ORDINARY PORTLAND CEMENT OF 53 GRADE CONFIRMING TO IS 269 : 2015.
9. ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (HSD) BARS CONFIRMING TO IS:1786 GRADE Fe500D (CORROSION RESISTANT). CUTTING, BENDING AND FIXING OF REINFORCEMENT SHALL BE AS PER IS:2502.
10. CLEAR COVER TO REINFORCEMENT SHALL BE 50mm.
11. THE BENDING OF REINFORCEMENT SHALL CONFORM TO IS-2502 AND DETAILING SHALL CONFORM TO SP:34 PUBLISHED BY BIS.
12. THE ANCHORAGE LENGTH OF ANY BAR SHALL BE 50 TIMES DIA OF BAR.
13. THE LAP LENGTH SHALL BE 40 TIMES DIA OF BAR. THE LAP SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY LOCATION.
14. REINFORCEMENT CALL UPS FOLLOW THIS CONVENTION:



REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2106	APPROACH GENERAL ARRANGEMENT & SECTIONAL ELEVATION
4.	DI1530-RHD-ZZ-NG-DR-C-2114	APPROACH TRESTLE BEAM REINFORCEMENT DETAIL
5.	DI1530-RHD-ZZ-NG-DR-C-2115	APPROACH TRESTLE SLAB REINFORCEMENT DETAIL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	10/02/2023	ISSUED FOR TENDER	RVA	SRC	SD

REVISIONS

CLIENT

Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT

Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT

Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE

CENTRAL CLUSTER (NORTH GUWAHATI SITE) APPROACH TRESTLE BEAMS REINFORCEMENT DETAILS

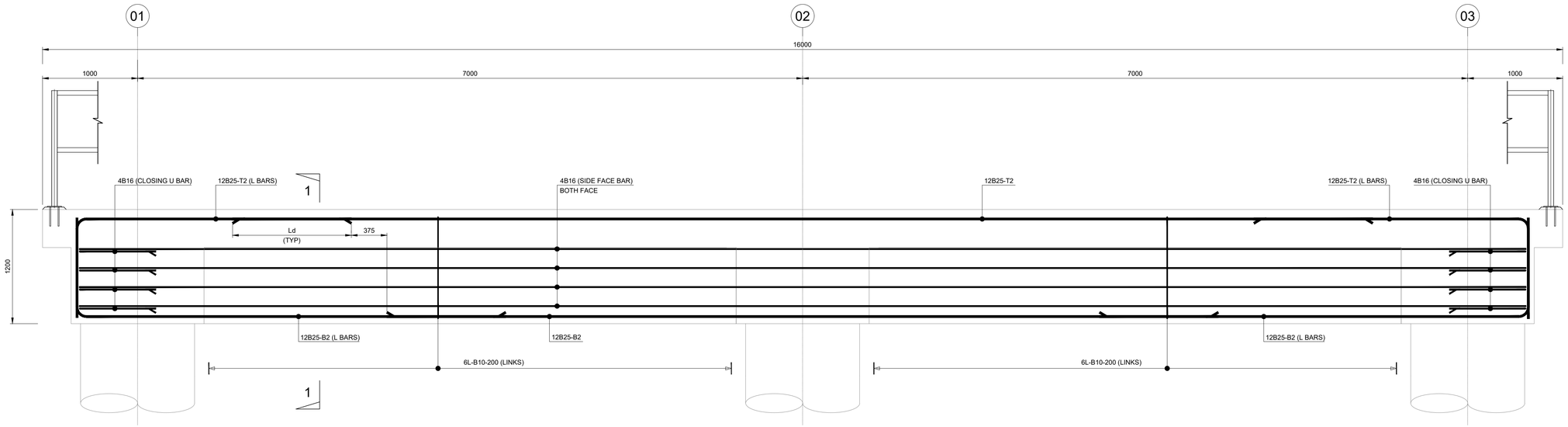
DRAWN RVA	CHECKED SRC	APPROVED SD
DATE FEB' 2023	SCALE @A1 AS SHOWN	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2113	A3	P01

© HaskoningDHV Consulting Pvt. Ltd

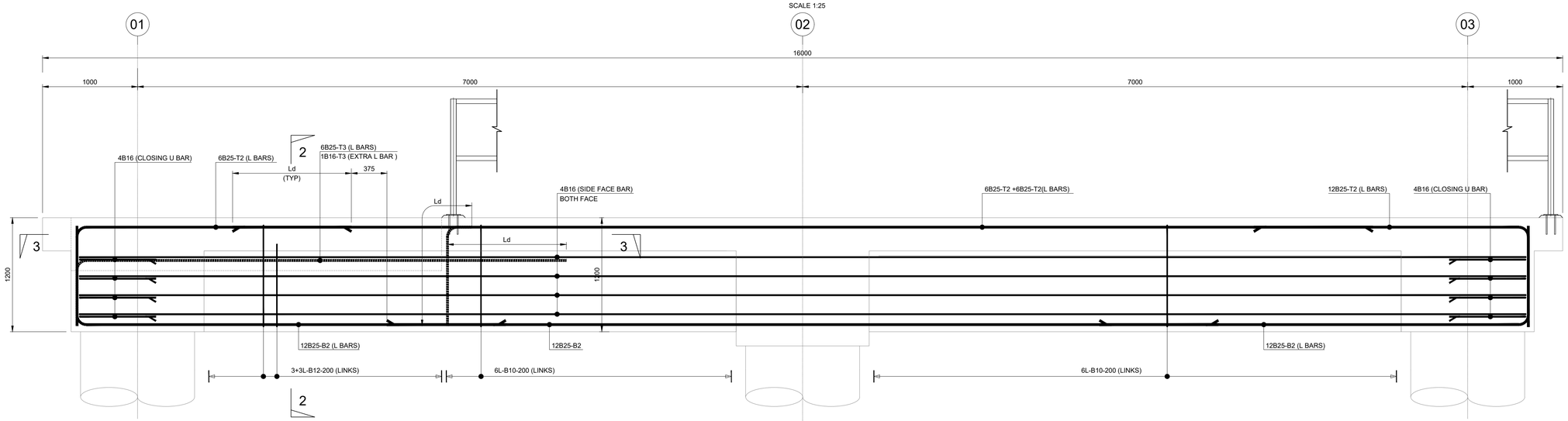
DRG No.
DI1530-RHD-ZZ-NG-DR-C-2114

DO NOT SCALE



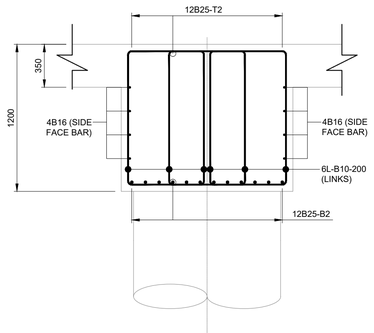
LONGITUDINAL BEAM LB1 ELEVATION ON GRID-A

SCALE 1:25

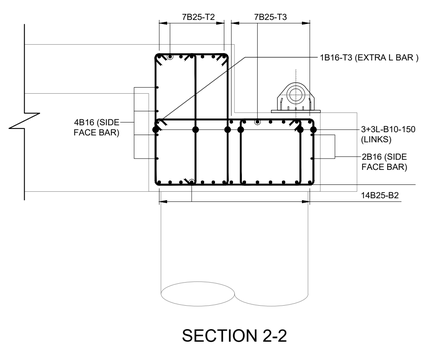


LONGITUDINAL BEAM LB2 ELEVATION ON GRID-B

SCALE 1:25

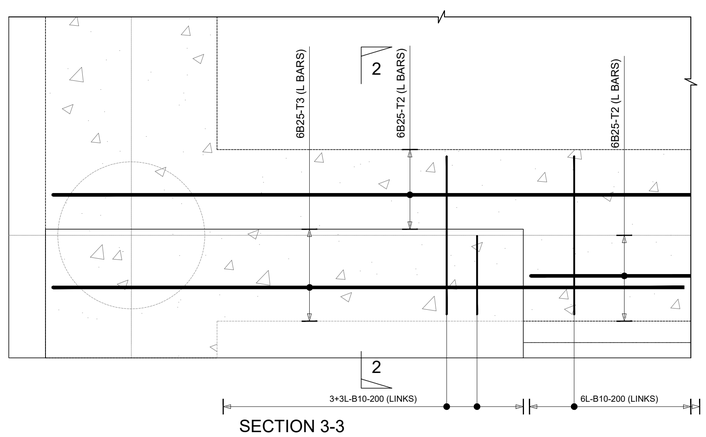


SECTION 1-1



SECTION 2-2

SCALE 1:25

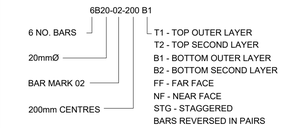


SECTION 3-3

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER,UNLESS NOTED OTHERWISE.
2. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
3. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00M AT NORTH GUWAHATI LOCATION.
4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
5. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
6. THE CONTRACTOR CAN CHOOSE APPROPRIATE ALTERNATIVE CONSTRUCTION METHODS (PRECAST, PRECAST COMPOSITE OR CAST-IN SITU) AS PER HIS EXPERTISE.
7. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURE INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
8. CONCRETE GRADE SHALL BE M40 WITH ORDINARY PORTLAND CEMENT OF 53 GRADE CONFIRMING TO IS 269 : 2015.
9. ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (HSD) BARS CONFIRMING TO IS:1786 GRADE Fe500D (CORROSION RESISTANT). CUTTING, BENDING AND FIXING OF REINFORCEMENT SHALL BE AS PER IS:2502.
10. CLEAR COVER TO REINFORCEMENT SHALL BE 50mm.
11. THE BENDING OF REINFORCEMENT SHALL CONFORM TO IS-2502 AND DETAILING SHALL CONFORM TO SP:34 PUBLISHED BY BIS.
12. THE ANCHORAGE LENGTH OF ANY BAR SHALL BE 50 TIMES DIA OF BAR.
13. THE LAP LENGTH SHALL BE 40 TIMES DIA OF BAR. THE LAP SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY LOCATION.
14. REINFORCEMENT CALL UPS FOLLOW THIS CONVENTION:



REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2106	APPROACH GENERAL ARRANGEMENT & SECTIONAL ELEVATION
4.	DI1530-RHD-ZZ-NG-DR-C-2113	APPROACH TRESTLE BEAM REINFORCEMENT DETAIL
5.	DI1530-RHD-ZZ-NG-DR-C-2115	APPROACH TRESTLE SLAB REINFORCEMENT DETAIL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	10/02/2023	ISSUED FOR TENDER	RVA	SRC	SD

REVISIONS

CLIENT

Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park,
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA.
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

PROJECT

Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT

Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE

CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
APPROACH TRESTLE
BEAMS REINFORCEMENT DETAILS

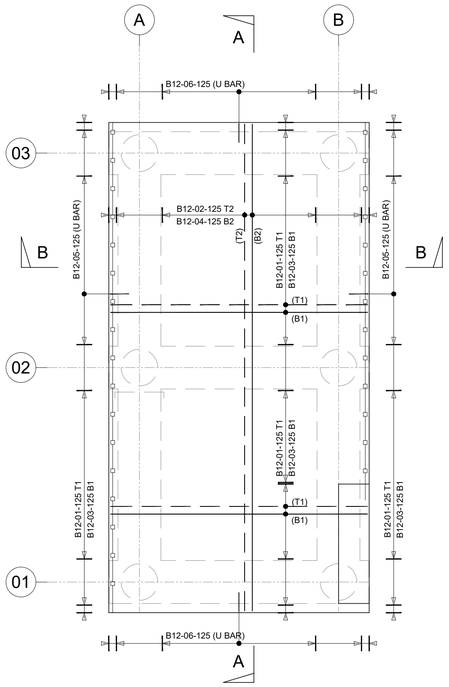
DRAWN	CHECKED	APPROVED
RVA	SRC	SD
DATE: FEB' 2023	SCALE: @A1 AS SHOWN	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2114	A3	P01

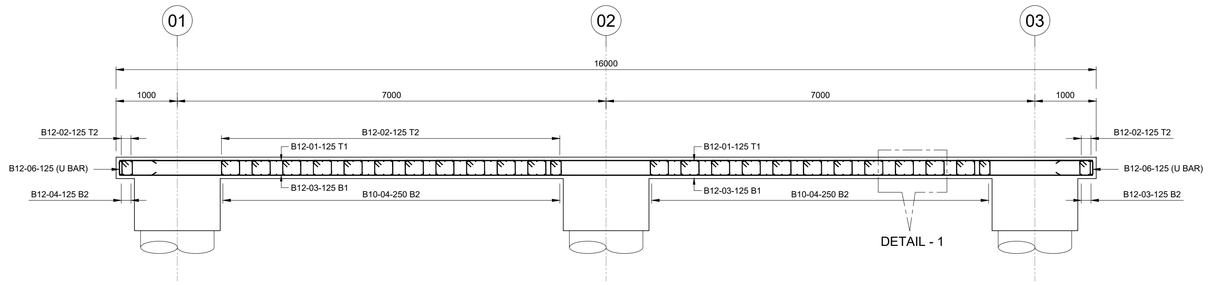
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2115

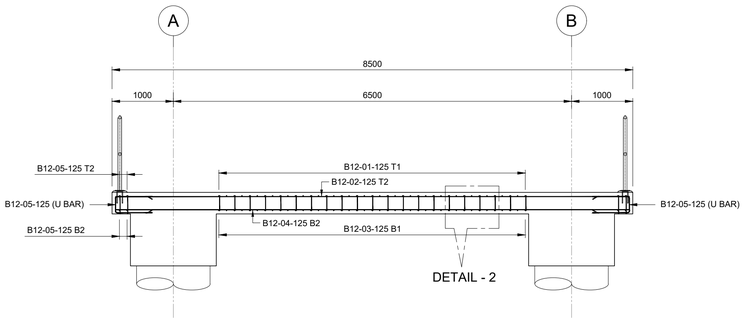
DO NOT SCALE



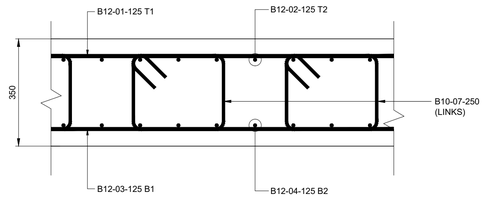
APPROACH PLATFORM REINFORCEMENT PLAN
SCALE 1:100



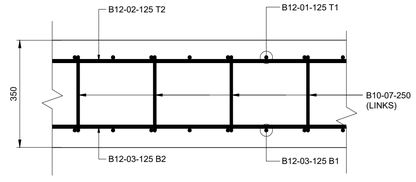
SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



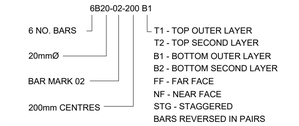
DETAIL - 1
SCALE 1:10



DETAIL - 2
SCALE 1:10

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER,UNLESS NOTED OTHERWISE.
2. REFERENCE ELEVATION AND HFL(50.385) WAS OBTAINED FROM CWC OFFICE .
3. WATER LEVEL DURING HYDROGRAPHIC SURVEY WAS 40.00M AT NORTH GUWAHATI LOCATION.
4. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
5. ANY DISCREPANCIES FOUND IN DRAWINGS ARE TO BE REPORTED TO THE ENGINEER.
6. THE CONTRACTOR CAN CHOOSE APPROPRIATE ALTERNATIVE CONSTRUCTION METHODS (PRECAST, PRECAST COMPOSITE OR CAST-IN SITU) AS PER HIS EXPERTISE.
7. THE CONTRACTOR NEEDS TO ENSURE AND CONFIRM STRUCTURE INTEGRITY OF ALL STRUCTURAL ELEMENTS FOR LOCAL AS WELL AS GLOBAL CONDITIONS WHILE OPTING ALTERNATIVE CONSTRUCTION METHODOLOGY.
8. CONCRETE GRADE SHALL BE M40 WITH ORDINARY PORTLAND CEMENT OF 53 GRADE CONFIRMING TO IS 269 : 2015.
9. ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (HSD) BARS CONFIRMING TO IS:1786 GRADE Fe500D (CORROSION RESISTANT). CUTTING, BENDING AND FIXING OF REINFORCEMENT SHALL BE AS PER IS:2502.
10. CLEAR COVER TO REINFORCEMENT SHALL BE 50mm.
11. THE BENDING OF REINFORCEMENT SHALL CONFORM TO IS-2502 AND DETAILING SHALL CONFORM TO SP:34 PUBLISHED BY BIS.
12. THE ANCHORAGE LENGTH OF ANY BAR SHALL BE 50 TIMES DIA OF BAR.
13. THE LAP LENGTH SHALL BE 40 TIMES DIA OF BAR. THE LAP SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY LOCATION.
14. REINFORCEMENT CALL UPS FOLLOW THIS CONVENTION:



REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2102	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2111	APPROACH GENERAL ARRANGEMENT & SECTIONAL ELEVATION
4.	DI1530-RHD-ZZ-NG-DR-C-2113	APPROACH TRESTLE BEAM REINFORCEMENT DETAIL
5.	DI1530-RHD-ZZ-NG-DR-C-2114	APPROACH TRESTLE BEAM REINFORCEMENT DETAIL

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	RVA	SRC	SD

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@hdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
APPROACH TRESTLE
SLAB REINFORCEMENT DETAILS

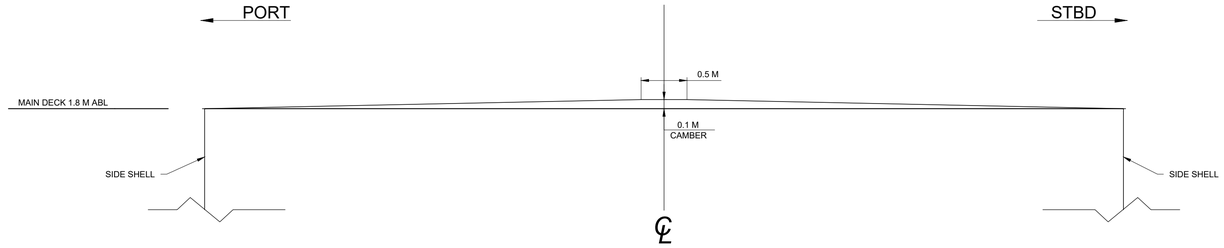
DRAWN	CHECKED	APPROVED
RVA	SRC	SD
DATE: FEB 2023	SCALE @A1: AS SHOWN	REF.: -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2115	A3	P01

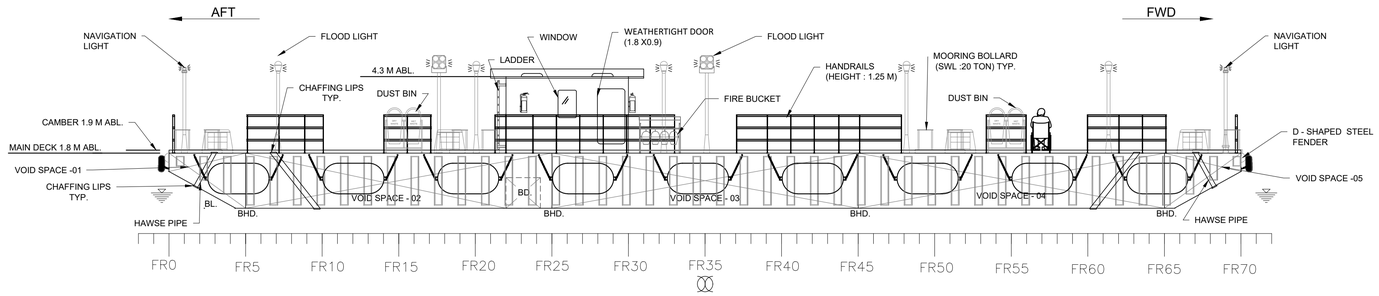
© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2116

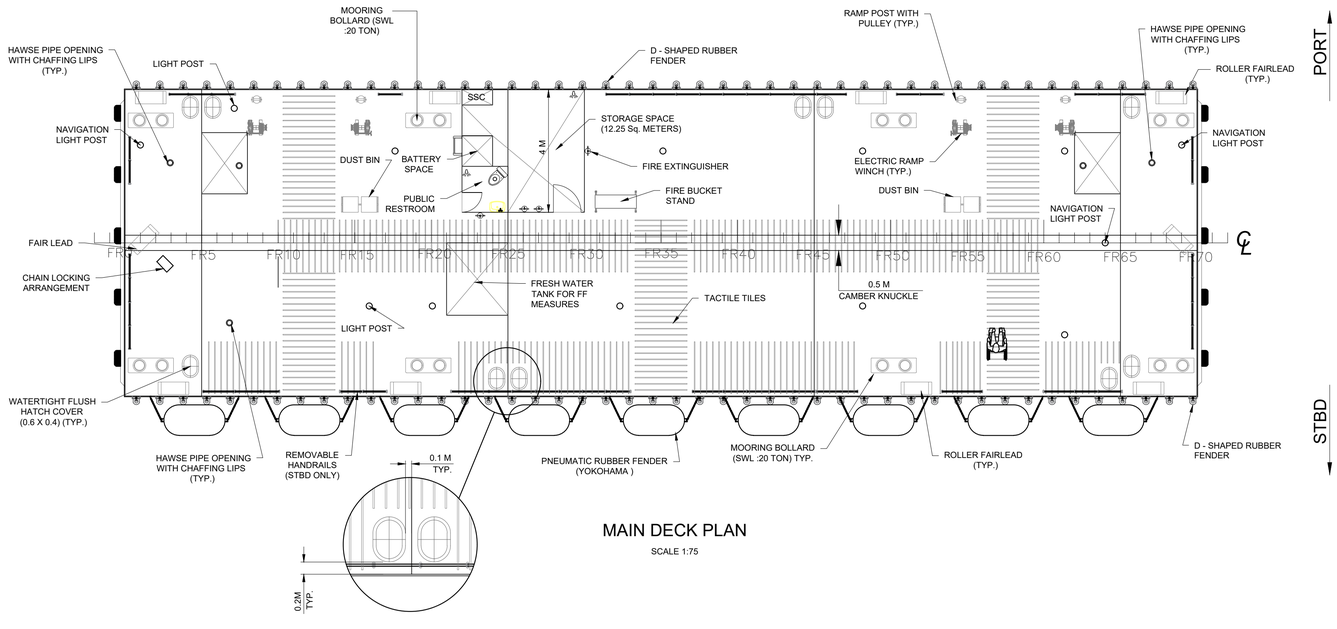
DO NOT SCALE



CAMBER ARRANGEMENT
TRANSVERSE VIEW (LOOKING FWD)



PROFILE
(LOOKING PORT)
SCALE1:100



MAIN DECK PLAN
SCALE 1:75

NOTES:

1. ALL DIMENSIONS ARE IN METERS.
2. ALL LEVELS ARE IN METERS RELATIVE TO MEAN SEA LEVEL (MSL), UNLESS NOTED OTHERWISE.
3. ANCHOR & MOORING SYSTEM: ANCHORS AND MOORING BOLLARDS DEPICTED ON THE MAIN DECK ARE BASED ON THE INLAND WATERWAY RULES IN IRS CLASS.
4. THE MAIN DECK SHALL BE COATED WITH ANTI-SKID PAINT.
5. PLATES OF ENHANCED THICKNESS FOR ACCESS RAMP, DECK MACHINERIES, FITTINGS & GUIDE PILE COLLAR ARRANGEMENTS.
6. THIS GENERAL ARRANGEMENT HAS TO BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION.
7. DRAWING ARE NOT TO BE SCALED. WRITTEN DIMENSIONS SHOULD BE FOLLOWED AND VERIFIED WITH THE DETAILS.
8. ANY DISCREPANCIES FOUND IN DRAWING ARE TO BE REPORTED TO THE ENGINEER.

MAIN PARTICULARS	
LENGTH (L)	35 M
BREADTH (B) MLD.	10 M
DEPTH (D) MLD.	1.8 M
DRAFT (T) MLD.	~0.69 M
FRAME SPACING	0.5 M
DECK LOAD RATING	10 kN/M^2

LEGEND :

B.L	:	BASE LINE
A.B.L	:	ABOVE BASE LINE
TYP.	:	TYPICAL
C.L	:	CENTER LINE
BHD	:	BULKHEAD
STBD	:	STARBOARD
FR	:	FRAME
FWD	:	FORWARD

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2101	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	GENERAL ARRANGEMENT AND SECTIONAL ELEVATION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHD-ZZ-NG-DR-C-2104	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 1 OF 2)
5.	DI1530-RHD-ZZ-NG-DR-C-2105	STEEL LINK SPAN GENERAL ARRANGEMENT (SHEET 2 OF 2)
6.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
7.	DI1530-RHD-ZZ-NG-DR-C-2117	PONTOON MID SECTION

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	13/02/2023	ISSUED FOR TENDER	TSM	JAK	AK

REVISIONS

CLIENT
Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT
HaskoningDHV Consulting Private Limited
502-509, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@rhdhv.com
www.royalhaskoningdhv.com
Royal HaskoningDHV
Enhancing Society Together

DESIGN PARTNER
Conceptia®
NAVAL ARCHITECTURE & MARINE ENGINEERING DIV.
#22, 2nd Floor, 100 Feet Ring Road, 6th Block, 3rd Phase
BSK 3rd Stage, Bengaluru - 560085, Karnataka, India
Email: info@conceptia.in
Website: www.conceptia.in

PROJECT
Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT
Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE
CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
PONTOON
GENERAL ARRANGEMENT
(35m x 10m)

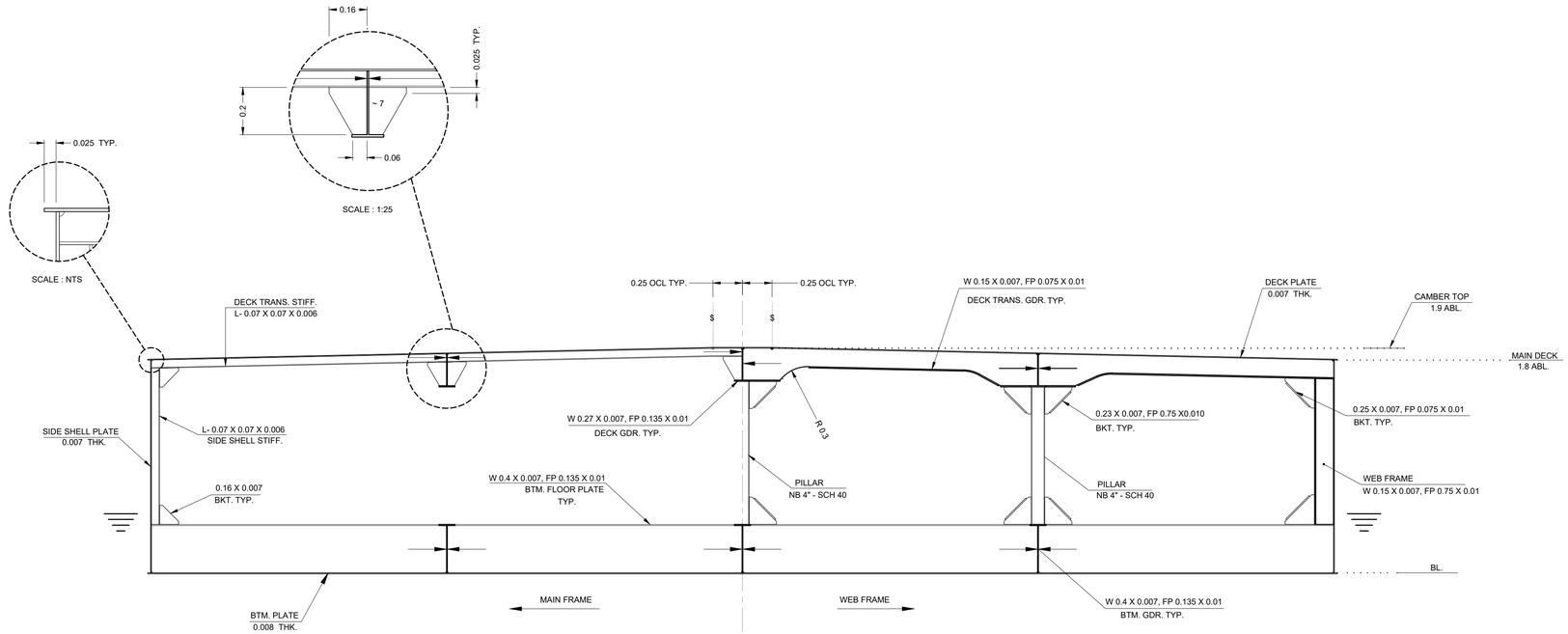
DRAWN RVA	CHECKED SVK	APPROVED AK
DATE FEB 2023	SCALE @A1 -	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2116	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.

DRG No.
DI1530-RHD-ZZ-NG-DR-C-2117

DO NOT SCALE



MIDSHIP SECTION

(LOOKING AFT)

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN METERS.
2. SCANTLINGS ARE BASED ON IRS RULES (RULES AND REGULATION FOR THE CONSTRUCTION AND CLASSIFICATION OF INLAND WATERWAYS VESSELS).
3. ALL THE SHARP EDGES ARE TO BE GROUND SMOOTH & ROUNDED OFF.
4. ALL WELDING SCALLOPS ARE 0.02 M.
5. MATERIAL OF CONSTRUCTION : MILD STEEL WITH YIELD STRESS OF 235 MPA AND TENSILE STRENGTH OF 400 - 490 MPA.

MAIN PARTICULARS	
LENGTH (L)	35 M
BREADTH (B) MLD.	10 M
DEPTH (D) MLD.	1.8 M
DRAFT (T) MAX.	~0.69 M
FRAME SPACING	0.5 M
DECK LOAD RATING	10 kN/M^2

LEGEND :

B.L	:	BASE LINE
TYP.	:	TYPICAL
THK.	:	THICKNESS
BKT.	:	BRACKET
GDR.	:	GIRDER
BTM	:	BOTTOM
STIFF.	:	STIFFENER
FWD	:	FORWARD
NTS	:	NOT TO SCALE
OCL	:	OFF CENTER LINE

REFERENCE DRAWINGS:

1.	DI1530-RHD-ZZ-NG-DR-C-2101	OVERALL LAYOUT
2.	DI1530-RHD-ZZ-NG-DR-C-2102	LONGITUDINAL SECTION
3.	DI1530-RHD-ZZ-NG-DR-C-2103	CROSS SECTION PROPOSED TERMINAL BUILDING FGL
4.	DI1530-RHZ-ZZ-NG-DR-C-2110	LAND AREA REQUIREMENT
5.	DI1530-RHD-ZZ-NG-DR-C-2112	STEEL LINK SPAN GENERAL ARRANGEMENT
6.	DI1530-RHD-ZZ-NG-DR-C-2116	PONTOON GENERAL ARRANGEMENT

FOR TENDER

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	10/02/2023	ISSUED FOR TENDER	RVA	JAK	AK

REVISIONS

CLIENT

Assam Inland Water Transport Development Society (AIWTDS)

CONSULTANT

HaskoningDHV Consulting Private Limited
502-505, 5th Floor, Platinum Techno Park
Plot 17 & 18, Sector 30 A, Vashi
Navi Mumbai - 400 703, INDIA
Tel +91 (0) 22 61395000
Email info.india@dhdhv.com
www.royalhaskoningdhv.com

Royal HaskoningDHV
Enhancing Society Together

DESIGN PARTNER

Conceptia®
NAVAL ARCHITECTURE & MARINE ENGINEERING DIV.
#22, 2nd Floor, 100 Feet Ring Road, 6th Block, 3rd Phase
BSK 3rd Stage, Bengaluru - 560085, Karnataka, India
Email: info@conceptia.in
Website: www.conceptia.in

PROJECT

Assam Inland Water Transport Project (AIWTP)

ASSIGNMENT

Preparation of DPR along with Engineering Design, Drawings,Tender Documents for Construction of Modular Terminal at Ferry Services of NW-2 and NW-16 in Assam

TITLE

CENTRAL CLUSTER
(NORTH GUWAHATI SITE)
PONTOON MID SECTION
(35m x 10m)

DRAWN	CHECKED	APPROVED
RVA	SVK	AK
DATE: FEB 2023	SCALE: @A1 -	REF. -

DRAWING No.	SUITABILITY	REVISION
DI1530-RHD-ZZ-NG-DR-C-2117	A3	P01

© HaskoningDHV Consulting Pvt. Ltd.