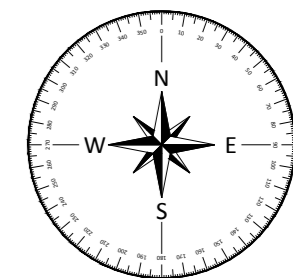


I-525 VARANASI TERMINAL - DPR DRAWING LIST		
S. NO.	DWG. NO.	TITLE
1	I-525-VTR-201	TOPOGRAPHIC SURVEY
2	I-525-VTR-202	BATHYMETRY SURVEY
3	I-525-VTR-203	LOCATION PLAN OF BORE HOLES
4	I-525-VTR-204	LAYOUT OF TERMINAL IN PHASE-1A
5	I-525-VTR-205	LAYOUT OF TERMINAL IN PHASE-1B
6	I-525-VTR-206	TERMINAL FACILITIES -MASTER PLAN
7	I-525-VTR-207	LAYOUT OF TERMINAL BOUNDARY
8	I-525-VTR-208	LAYOUT OF AIDS TO NAVIGATION
9	I-525-VTR-209	GENERAL ARRANGEMENT & CROSS SECTION OF JETTY (FINAL PHASE)
10	I-525-VTR-209A	GENERAL ARRANGEMENT & CROSS SECTION OF JETTY (PHASE -1A)
11	I-525-VTR-210	TYPICAL DETAIL OF SHORE PROTECTION WORK
12	I-525-VTR-211 (SHEET-1)	TYPICAL LAYOUT OF TERMINAL ADMINISTRATION BUILDING
13	I-525-VTR-211 (SHEET-2)	TYPICAL ELEVATION OF TERMINAL ADMINISTRATION BUILDING
14	I-525-VTR-212	LAYOUT OF FIRE FIGHTING PUMP HOUSE (FINAL PHASE)
15	I-525-VTR-212A	LAYOUT OF FIRE FIGHTING PUMP HOUSE (PHASE-1B)
16	I-525-VTR-213	GENERAL ARRANGEMENT OF GATE COMPLEX
17	I-525-VTR-214	SECURITY OFFICE
18	I-525-VTR-215	WEIGH BRIDGE CONTROL ROOM
19	I-525-VTR-216	LAYOUT OF CANTEEN & TOILET
20	I-525-VTR-217	GENERAL ARRANGEMENT OF COVERED STORAGE SHED
21	I-525-VTR-218	TYPICAL DETAILS OF STOCKYARD
22	I-525-VTR-219	CONVEYOR PROFILE
23	I-525-VTR-220	ROAD CROSS SECTIONS
24	I-525-VTR-221	LAYOUT OF WATER SUPPLY SYSTEM IN PHASE-1B
25	I-525-VTR-222	LAYOUT OF WATER SUPPLY SYSTEM IN MASTER PLAN
26	I-525-VTR-223	FIRE FIGHTING LAYOUT IN PHASE-1B
27	I-525-VTR-224	FIRE FIGHTING LAYOUT IN MASTER PLAN
28	I-525-VTR-225	LAYOUT OF STORM WATER SYSTEM IN PHASE-1A
29	I-525-VTR-226	LAYOUT OF STORM WATER SYSTEM IN PHASE-1B
30	I-525-VTR-227	LAYOUT OF STORM WATER SYSTEM IN MASTER PLAN
31	I-525-VTR-228 (SHEET-1)	LAYOUT OF TOILET BLOCK
32	I-525-VTR-228 (SHEET-2)	ELEVATION & SECTION OF TOILET BLOCK
33	I-525-VTR-229	LAYOUT OF JAI YATRI NIWAS (GUEST HOUSE)
34	I-525-VTR-230 (SHEET -1)	LAYOUT OF NALLA DIVERSION
35	I-525-VTR-230 (SHEET- 2)	LONGITUDINAL SECTION OF NALLA DIVERSION
36	I-525-VTR-230 (SHEET -3)	CROSS SECTION OF NALLA DIVERSION
37	I-525-VTR-232	SUB STATION EQUIPMENT LAYOUT (ESS-2)
38	I-525-VTR-233	POWER SINGLE LINE DIAGRAM (ESS-1)
39	I-525-VTR-234	POWER SINGLE LINE DIAGRAM (ESS-2)
40	I-525-VTR-235	HIGH MAST & CCTV CAMERA CABLE ROUTE
41	I-525-VTR-236	YARD CRUST DETAILS
42	I-525-VTR-237	SEWERAGE COLLECTION SYSTEM PHASE-1A
43	I-525-VTR-238	ELECTRICAL SUBSTATION PLAN (ESS-1) (PHASE-1A)
44	I-525-VTR-239	ELECTRICAL SUBSTATION ELEVATION & SECTION (ESS-1) (PHASE-1A)
45	I-525-VTR-240	WORKERS AMENITY BLOCK (PHASE-1A)
46	I-525-VTR-241	BERTHING APPURTENANCES DETAILS
47	I-525-VTR-242	EXTERNAL ROAD CONNECTIVITY
48	I-525-VTR-243	SEWERAGE COLLECTION SYSTEM IN MASTER PLAN
49	I-525-VTR-244	GATE PLAN, ELEVATION & CROSS SECTION
50	I-525-VTR-245	PONTOON LAYOUT
51	I-525-VTR-246	PONTOON CROSS SECTION



RIVER GANGA

PROPOSED TERMINAL AREA

LEGEND	
ADVERTISEMENT BOARD	
BORE WELL	
BRIDGE	
CANAL	
CART TRACK	
COMPOUND WALL	
CONTOUR	
CONTROL STATION	
CULVERT	
DIVIDER	
GROUND LEVEL	
ELECTRIC POLE	
FENCE	
FOUNDATION	
GATE	
GRAVE	
HOUSE	
KILOMETER STONE	
LAMP POST/FLOOD LIGHT	
MANGO TREE/TREE	
NALLA	
RETAINING WALL	
RIVER	
ROAD	
RUBBLE WALL	
SHED	
STEP	
STRUCTURE	
TEMPLE	

NOTES

- COORDINATES, ELEVATIONS ARE IN METRE.
- CO-ORDINATES ARE IN WGS-84, CM 81° GRID SYSTEM.
- REFERENCE TBM - A.D. BM1960 (R.L.72.667MTR.MSL.) SITUATED ON BRASS PLATE G.D.C. SAKA 1882, GANGA DISCHARGE DIVISION-I, NEAR VARANASI KASHI RAILWAY BRIDGE AT CWC TIDE OBSERVATION OFFICE.

LIST OF CONTROL STATIONS AT VARANASI TERMINAL				
SR.NO.	NORTHING	EASTING	R.L.(MSL)	REMARKS
1	2794252.004	704588.404	74.366	VR5 ON CONCRETE ROAD NEAR IWAI OFFICE GATE
2	2794586.395	704577.524	76.031	VR3 ON SECURITY CABIN FDN TOP
3	2794485.062	704613.863	76.246	VR1 ON DG FDN TOP

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (PMC PROJECTS)

NAME	SIGN	DATE
DRN	VAP	25/09/17
CHD	AM	25/09/17
APD	SP	25/09/17

TITLE: **IWT TERMINAL AT VARANASI TOPOGRAPHIC SURVEY**

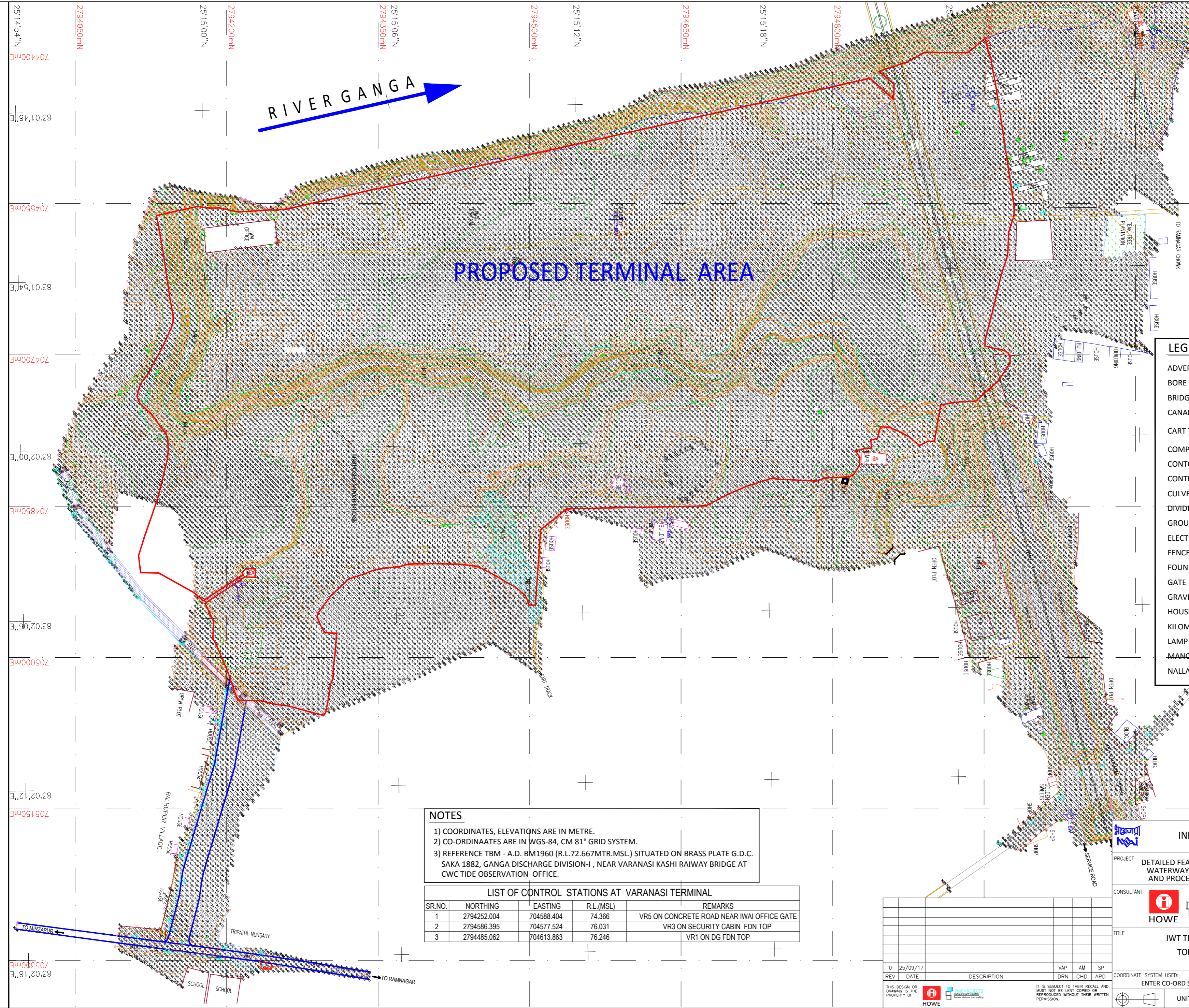
JOB. NO. I-525 DRG. NO. VTR-201

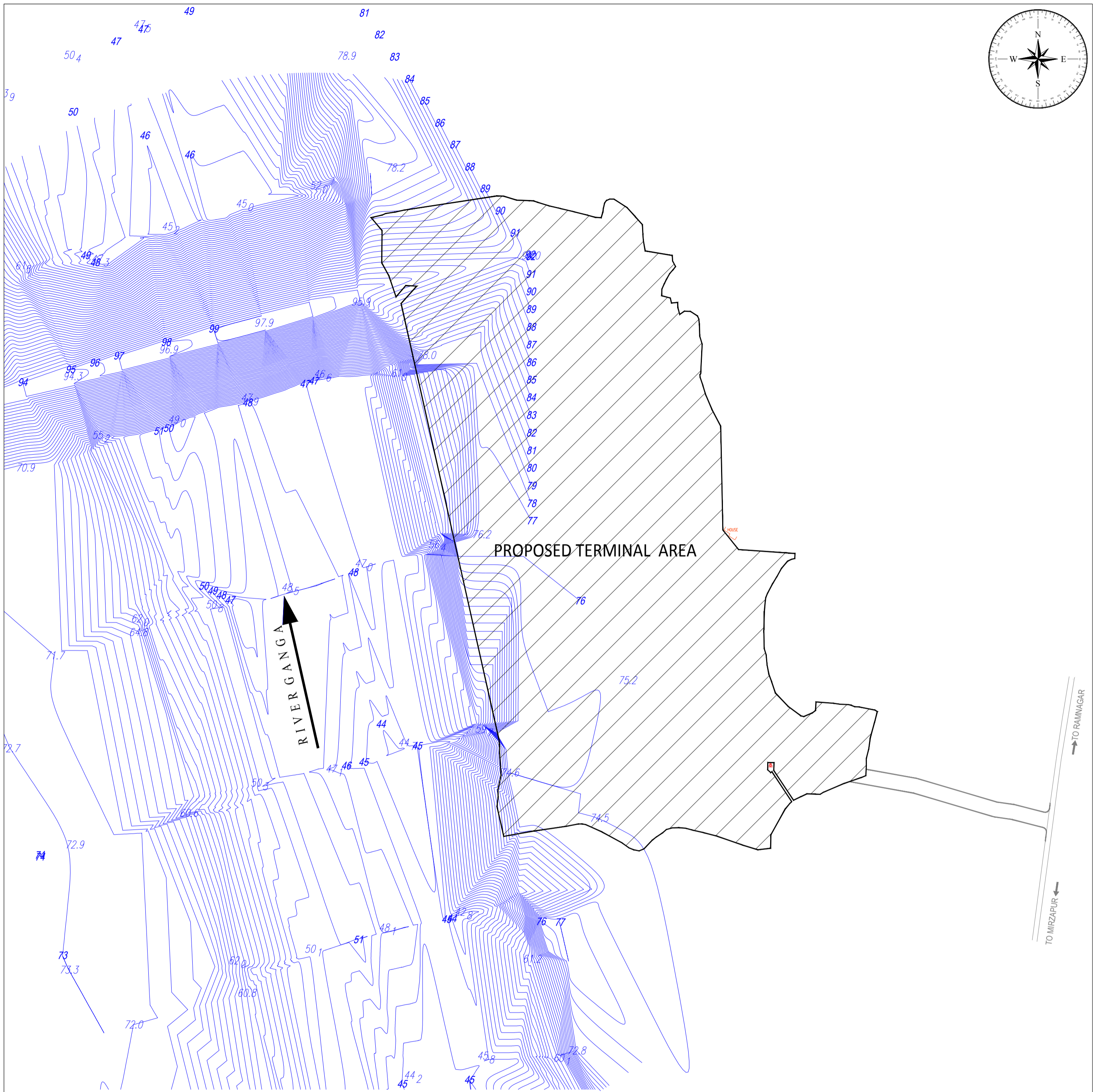
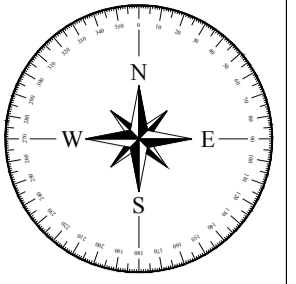
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT: SCALE: Size: A1 REV. 0

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				




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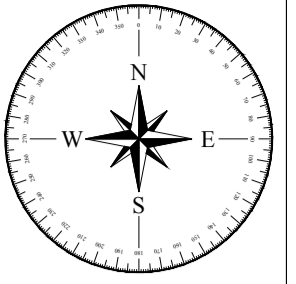
NOTES

1. ALL DIMENSIONS ARE IN METRE
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

 INLAND WATERWAYS AUTHORITY OF INDIA																	
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)																	
CONSULTANT:  	<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </tbody> </table>	NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17				
NAME	SIGN	DATE															
DRN	VAP	25/09/17															
CHD	AM	25/09/17															
APD	SP	25/09/17															
TITLE: IWT TERMINAL AT VARANASI HYDROGRAPHIC SURVEY	JOB. NO. DRG. NO. I-525 VTR-202																
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE																	
<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRN</th> <th>CHD</th> <th>APD</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>25/09/17</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	DRN	CHD	APD	0	25/09/17					<table border="1"> <tr> <td>UNIT</td> <td>SCALE - AS SHOWN</td> <td>Size : A1</td> <td>REV. 0</td> </tr> </table>	UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
REV	DATE	DESCRIPTION	DRN	CHD	APD												
0	25/09/17																
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0														

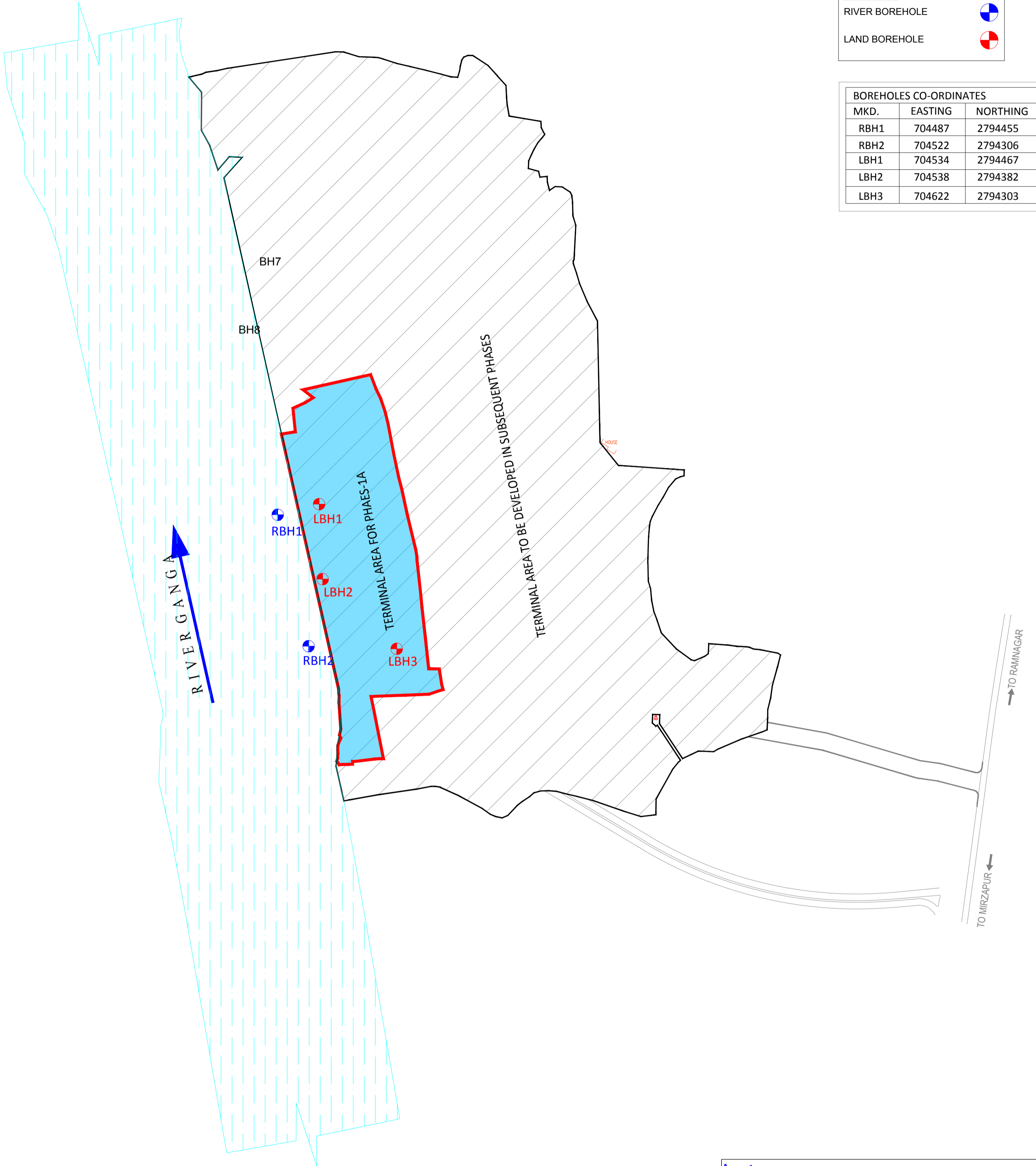
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LEGEND	
RIVER BOREHOLE	
LAND BOREHOLE	

BOREHOLES CO-ORDINATES		
MKD.	EASTING	NORTHING
RBH1	704487	2794455
RBH2	704522	2794306
LBH1	704534	2794467
LBH2	704538	2794382
LBH3	704622	2794303

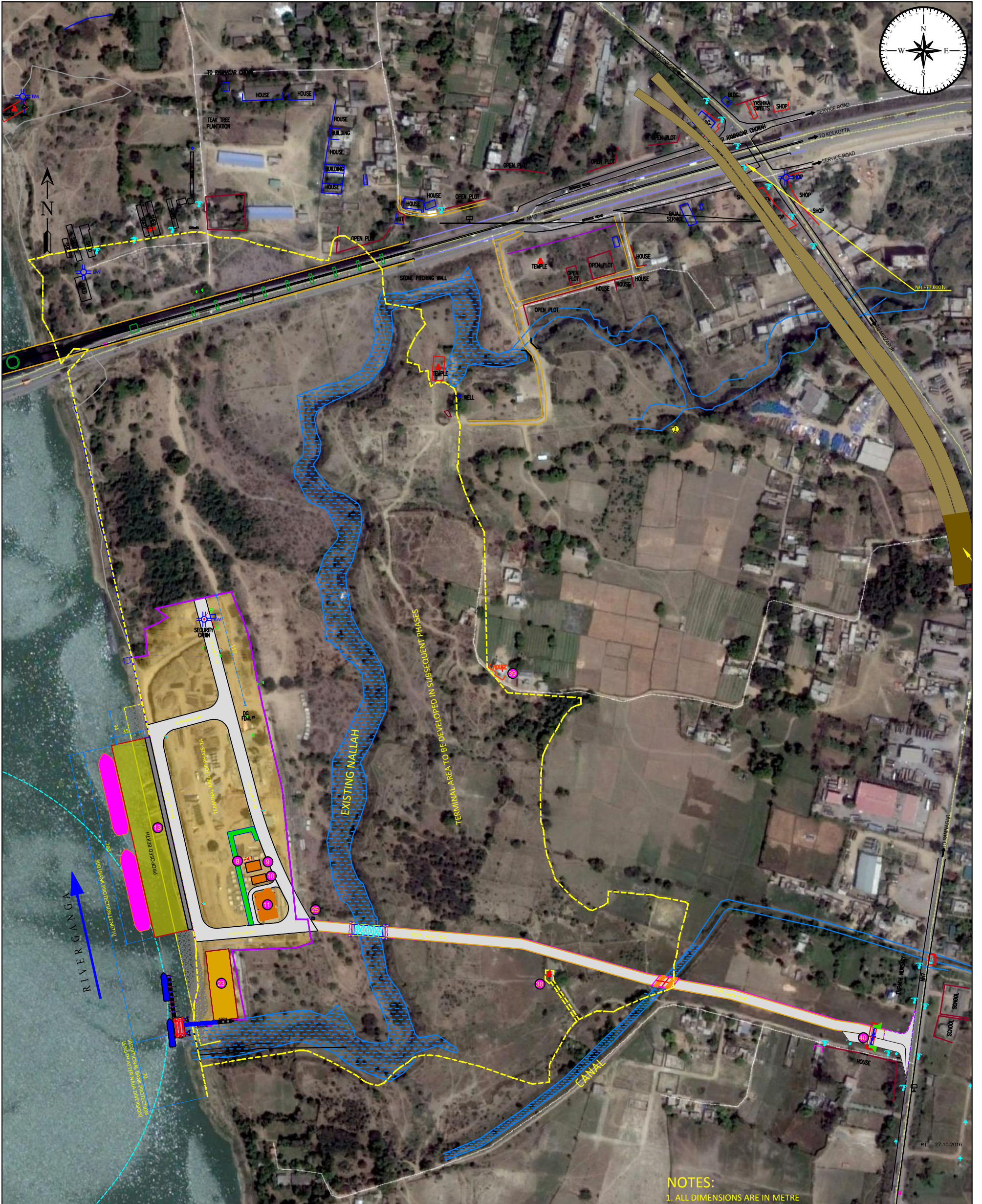


REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				

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		INLAND WATERWAYS AUTHORITY OF INDIA													
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
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NAME	SIGN	DATE													
DRN	VAP	25/09/17													
CHD	AM	25/09/17													
APD	SP	25/09/17													
TITLE		JOB. NO.													
IWT TERMINAL AT VARANASI LOCATION PLAN OF BOREHOLES		I-525													
COORDINATE SYSTEM USED:		DRG. NO.													
ENTER CO-ORD SYSTEM HERE		VTR-203													
		UNIT													
SCALE - AS SHOWN		Size : A1													
REV.		0													



NOTES:
1. ALL DIMENSIONS ARE IN METRE

FACILITIES

- SOAK PIT & SEPTIC TANK
- WORKERS AMENITY
- PUMP ROOM
- SUB-STATION
- PROPOSED BERTH
- EXISTING BUILDING
- SECURITY OFFICE
- EXISTING PUBLIC TEMPLE
- EXISTING HOUSE
- GATE

LEGEND

- EXISTING NALLAH
- EXISTING CANAL
- 3.0M WIDE PIPE CORRIDORE
- DRAIN
- PEDESTRIAN MOVEMENT
- 30 m LIGHTING HIGH MAST

REV	DATE	DESCRIPTION	DRN	CHD	APD

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** | **PMC PROJECTS** (INDIA) PRIVATE LIMITED

NAME	SIGN	DATE
DRN		25/09/17
CHD		25/09/17
APD		25/09/17

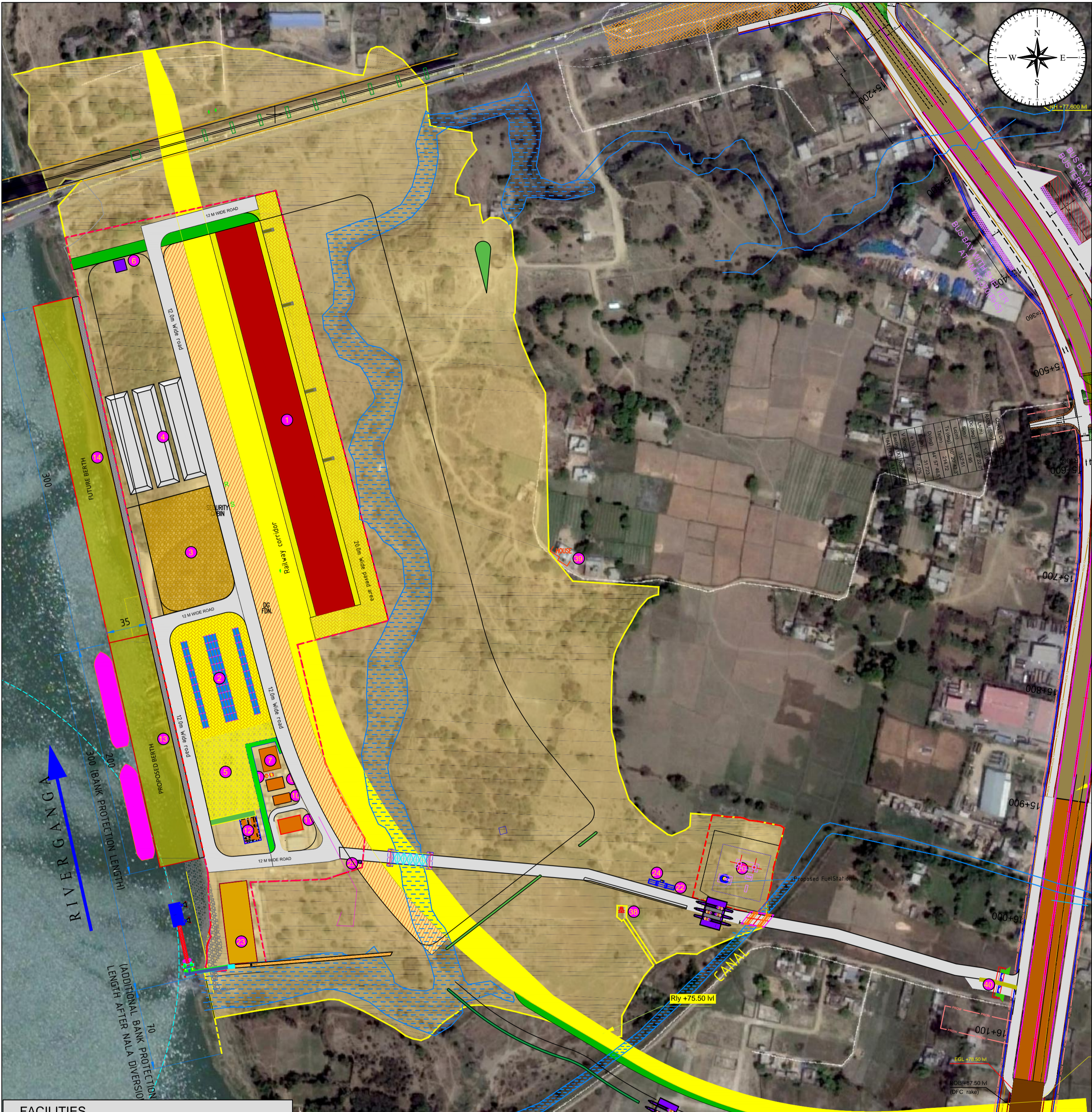
TITLE: IWT TERMINAL AT VARANASI LAYOUT OF TERMINAL IN PHASE-1A

JOB NO. I-525 | DRG. NO. VTR-204

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT: SCALE - AS SHOWN | Size: A1 | REV. 0

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FACILITIES

- 1 GODOWN-1
- 2 CONTAINER HANDLING AREA 64TGS 3400 SQMT
- 3 BULK CARGO (CONSUMER GOODS) 6000 SQMT
- 4 BULK CARGO (CONSTRUCTION MATERIAL) 9000 SQMT
- 5 PROJECT CARGO 3000 SQMT
- 6 STP
- 7 UNDER GROUND WATER TANK
- 8 SOAK PIT & SEPTIC TANK
- 9 WORKERS AMENITY
- 10 PUMP ROOM
- 11 SUB-STATION
- 12 ADMINISTRATION BUILDING
- 13 PROPOSED BERTH
- 14 FUTURE BERTH
- 15 PROPOSED FUELSTATION
- 16 WEIGH BRIDGE
- 17 EXISTING BUILDING
- 18 WEIGH BRIDGE CABIN
- 19 SECURITY OFFICE
- 20 EXISTING PUBLIC TEMPLE
- 21 EXISTING HOUSE
- 22 GATE

LEGEND

- EXISTING NALLAH
- EXISTING CANAL
- 3.0M WIDE PIPE CORRIDORE
- DRAIN
- PEDESTRIAN MOVEMENT
- 30 m LIGHTING HIGH MAST

NOTES:
1. ALL DIMENSIONS ARE IN METRE

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** & **PMC PROJECTS** (INDIA PRIVATE LIMITED)
From vision to reality...

NAME	SIGN	DATE
DRN	VA	25/09/17
CHD	SP	25/09/17
APD	SP	25/09/17

TITLE: **IWT TERMINAL AT VARANASI LAYOUT OF TERMINAL IN PHASE-1B**

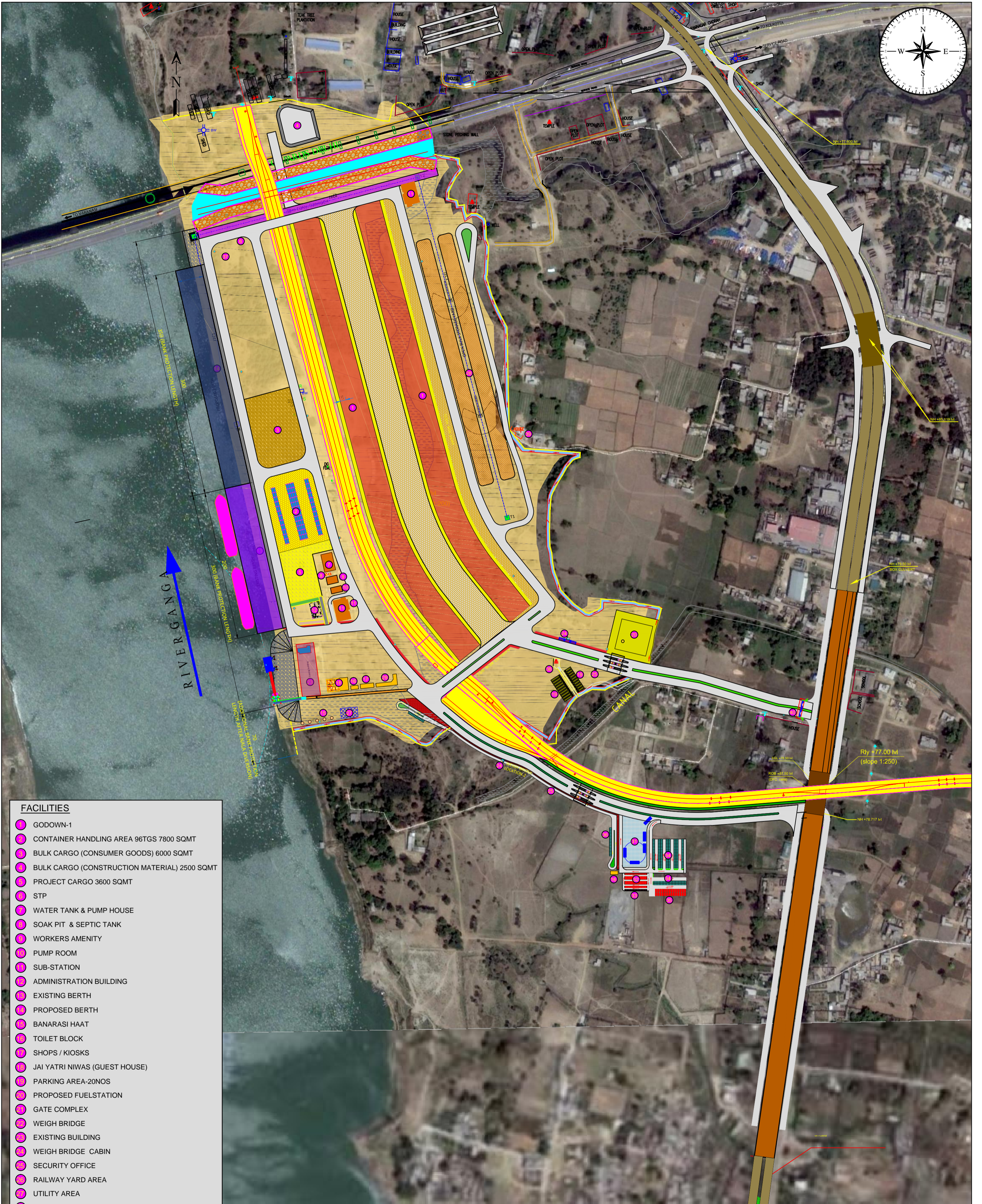
JOB. NO.: I-525 DRG. NO.: VTR-205

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
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REV	DATE	DESCRIPTION	DRN	CHD	APD

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- FACILITIES**
- GODOWN-1
 - CONTAINER HANDLING AREA 96TGS 7800 SQMT
 - BULK CARGO (CONSUMER GOODS) 6000 SQMT
 - BULK CARGO (CONSTRUCTION MATERIAL) 2500 SQMT
 - PROJECT CARGO 3600 SQMT
 - STP
 - WATER TANK & PUMP HOUSE
 - SOAK PIT & SEPTIC TANK
 - WORKERS AMENITY
 - PUMP ROOM
 - SUB-STATION
 - ADMINISTRATION BUILDING
 - EXISTING BERTH
 - PROPOSED BERTH
 - BANARASI HAAT
 - TOILET BLOCK
 - SHOPS / KIOSKS
 - JAI YATRI NIWAS (GUEST HOUSE)
 - PARKING AREA-20NOS
 - PROPOSED FUELSTATION
 - GATE COMPLEX
 - WEIGH BRIDGE
 - EXISTING BUILDING
 - WEIGH BRIDGE CABIN
 - SECURITY OFFICE
 - RAILWAY YARD AREA
 - UTILITY AREA
 - CONSTRUCTION MATERIAL BULK 22835 SQMT
 - CANTEEN & TOILET
 - 12NOS-E-RIKSHA STAND
 - 2NOS-BUS PARKING
 - 18NOS-SCOOTER PARKING
 - 45NOS-CYCLE PARKING
 - 240NOS-RIKSHA PARKING
 - 28NOS-CAR PARKING
 - 20NOS-E-RIKSHA STAND
 - ETP/UTILITY
 - EXISTING PUBLIC TEMPLE
 - EXISTING HOUSE
 - GATE

LEGEND

EXISTING NALLAH	
EXISTING CANAL	
3.0M WIDE PIPE CORRIDORE	
RCC DRAIN	
PEDESTRIAN MOVEMENT	
DRAIN SLOPE ARROW	
TERRIFIC MOVEMENT ARROW	
30 m LIGHTING HIGH MAST	

NOTES:

1. ALL DIMENSIONS ARE IN METRE

REV	DATE	DESCRIPTION	DRN	CHD	APD
C	25.09.17				
H	25.09.17				
A	25.09.17				

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PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** & **PMC PROJECTS** (INDIA PRIVATE LIMITED)

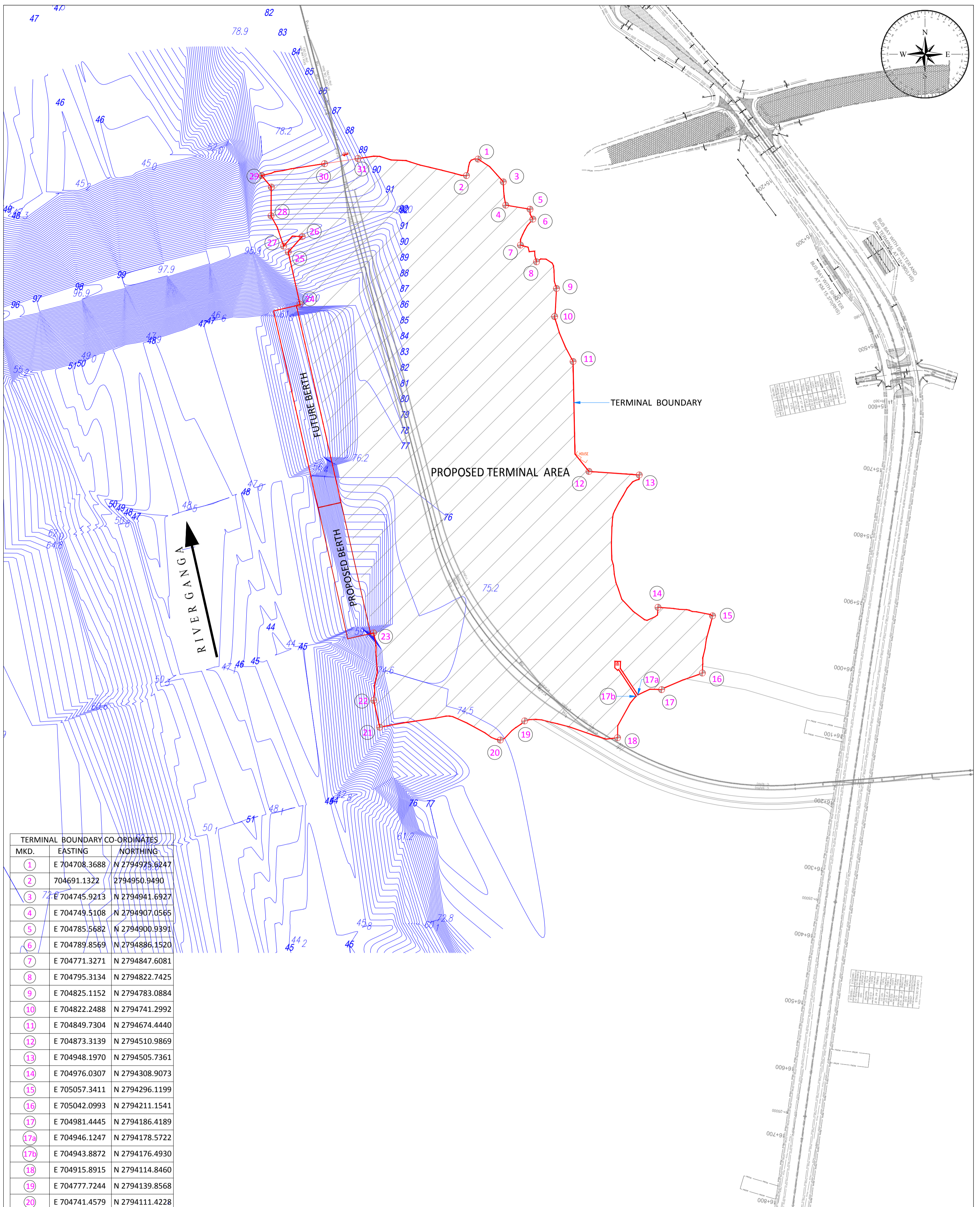
NAME	SIGN	DATE
DRN	VA	25/09/17
CHD	SP	25/09/17
APD	SP	25/09/17

TITLE: **IWT TERMINAL AT VARANASI**
TERMINAL FACILITIES - MASTER PLAN

JOB. NO. **I-525** DRG. NO. **VTR-206**
SHT-1

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT	SCALE - AS SHOWN	Size : A1	REV. C
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TERMINAL BOUNDARY CO-ORDINATES		
MKD.	EASTING	NORTHING
1	E 704708.3688	N 2794975.6247
2	E 704691.1322	N 2794950.9490
3	E 704745.9213	N 2794941.6927
4	E 704749.5108	N 2794907.0565
5	E 704785.5682	N 2794900.9391
6	E 704789.8569	N 2794886.1520
7	E 704771.3271	N 2794847.6081
8	E 704795.3134	N 2794822.7425
9	E 704825.1152	N 2794783.0884
10	E 704822.2488	N 2794741.2992
11	E 704849.7304	N 2794674.4440
12	E 704873.3139	N 2794510.9869
13	E 704948.1970	N 2794505.7361
14	E 704976.0307	N 2794308.9073
15	E 705057.3411	N 2794296.1199
16	E 705042.0993	N 2794211.1541
17	E 704981.4445	N 2794186.4189
17a	E 704946.1247	N 2794178.5722
17b	E 704943.8872	N 2794176.4930
18	E 704915.8915	N 2794114.8460
19	E 704777.7244	N 2794139.8568
20	E 704741.4579	N 2794111.4228
21	E 704562.0100	N 2794130.5717
22	E 704553.0312	N 2794170.4703
23	E 704552.8065	N 2794270.7168
24	E 704443.2731	N 2794759.8365
25	E 704425.9742	N 2794837.3046
26	E 704446.6667	N 2794860.2622
27	E 704419.0975	N 2794846.0642
28	E 704400.2739	N 2794891.2460
29	E 704386.1539	N 2794951.2391
30	E 704479.9138	N 2794968.7563
31	E 704529.6307	N 2794976.3073

REV.	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				

भारतीय जल विभाग

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** & **PMC PROJECTS** (INDIA PRIVATE LIMITED)

TITLE: **IWT TERMINAL AT VARANASI**
TERMINAL BOUNDARY CO-ORDINATES

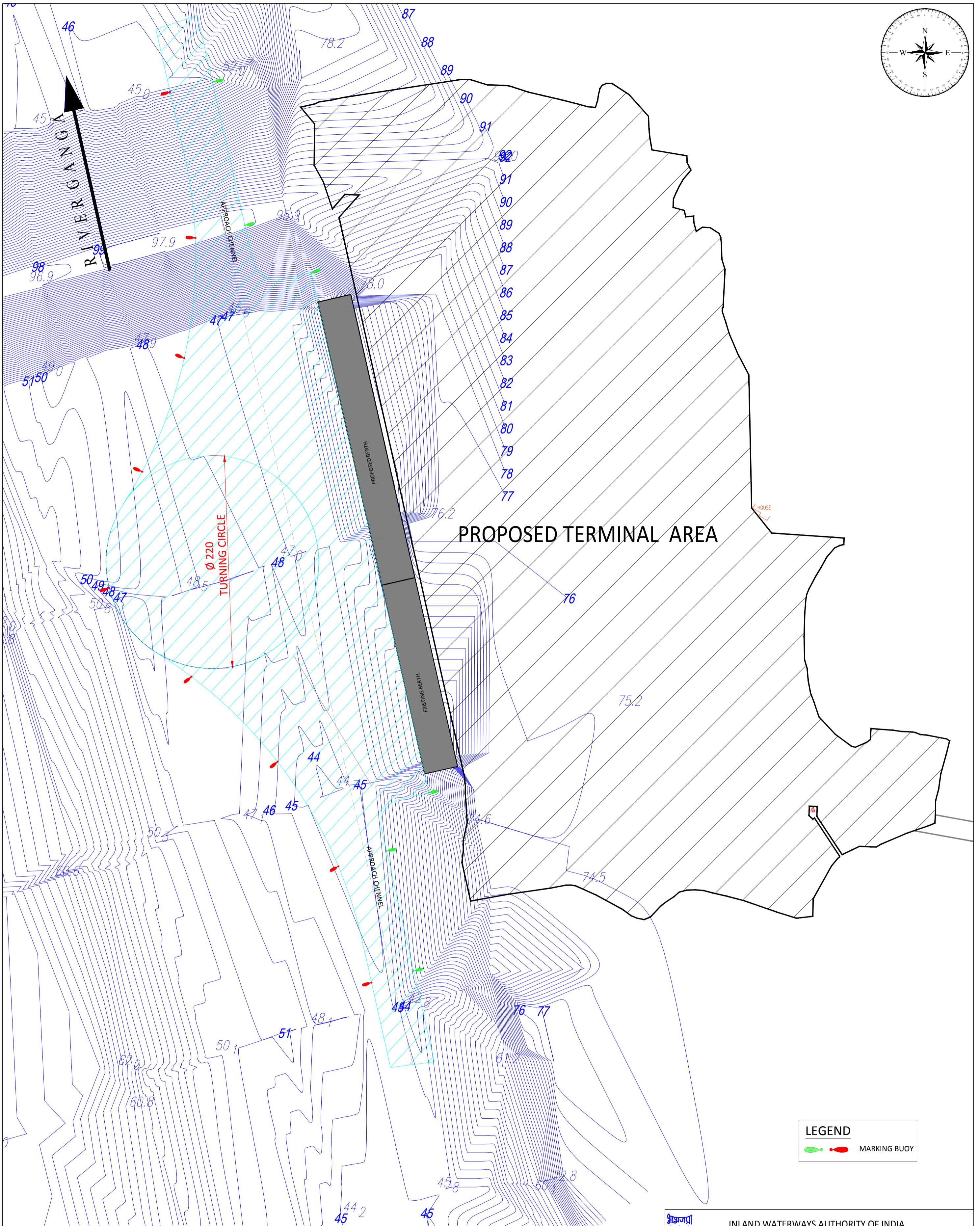
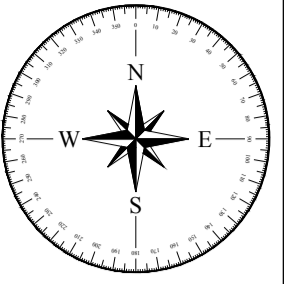
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

DRN	VAF	SIGN	DATE
DRN	AM		25/09/17
APD	SP		25/09/17

JOB. NO. I-525
DRG. NO. VTR-207

UNIT: SCALE - AS SHOWN
Size: A1
REV. 0

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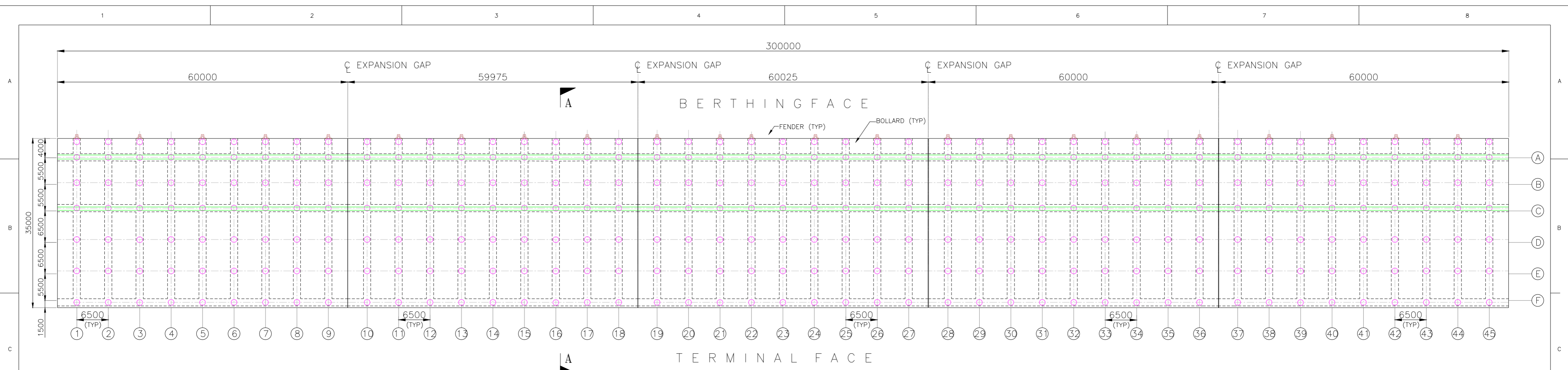
LEGEND	
	MARKING BUOY
	MARKING BUOY

- NOTES:**
1. ALL DIMENSIONS ARE IN METRE
 2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

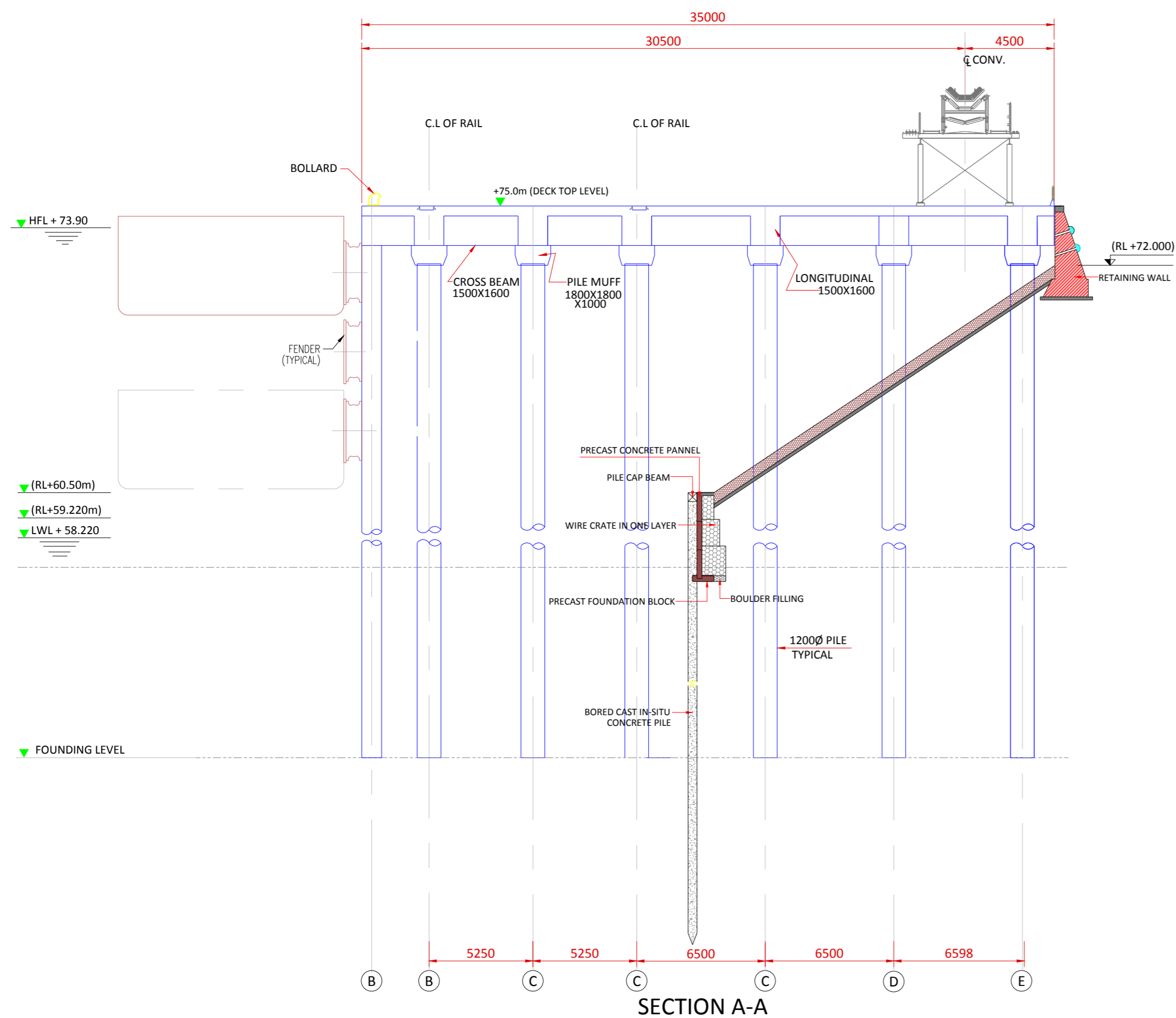
REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				

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		INLAND WATERWAYS AUTHORITY OF INDIA													
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT HOWE		<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </tbody> </table>		NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE													
DRN	VAP	25/09/17													
CHD	AM	25/09/17													
APD	SP	25/09/17													
TITLE IWWT TERMINAL AT VARANASI LAYOUT OF AIDS TO NAVIGATION		JOB. NO. I-525 DRG. NO. VTR-208													
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
	UNIT	SCALE - AS SHOWN	Size : A1 REV. 0												



PLAN



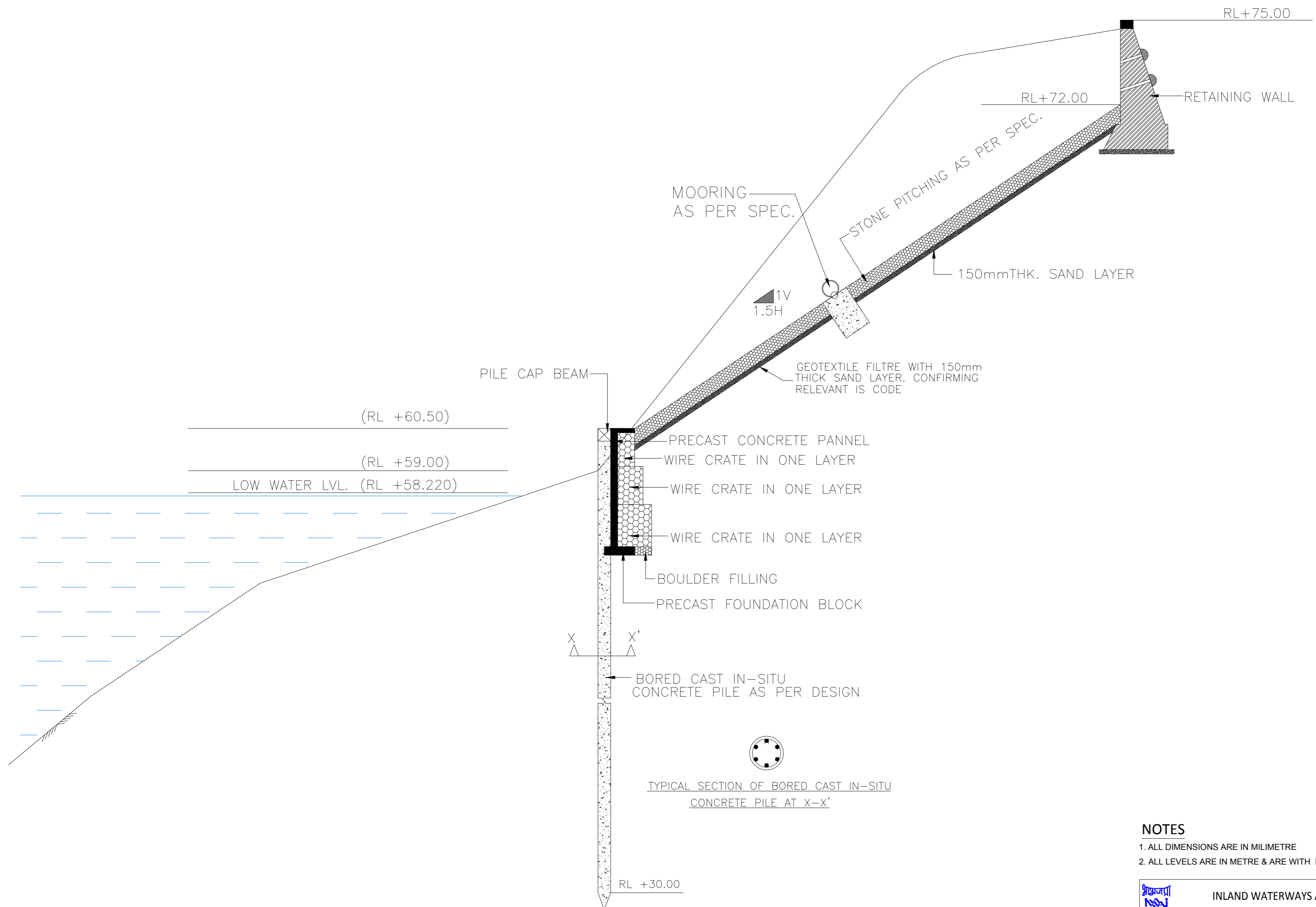
SECTION A-A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRE
 2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>																									
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>																									
<p>CONSULTANT: PMC PROJECTS INDIA PRIVATE LIMITED From vision to reality...</p>																									
<p>TITLE: IWT TERMINAL AT VARANASI GENERAL ARRANGEMENT & CROSS SECTION OF JETTY</p>																									
<table border="1"> <tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>DRN</th><th>CHD</th><th>APD</th></tr> <tr><td>0</td><td>25/09/17</td><td></td><td>VAP</td><td>AM</td><td>SP</td></tr> </table>	REV	DATE	DESCRIPTION	DRN	CHD	APD	0	25/09/17		VAP	AM	SP	<table border="1"> <tr><th>NAME</th><th>SIGN</th><th>DATE</th></tr> <tr><td>DRN</td><td>VAP</td><td>25/09/17</td></tr> <tr><td>CHD</td><td>AM</td><td>25/09/17</td></tr> <tr><td>APD</td><td>SP</td><td>25/09/17</td></tr> </table>	NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
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APD	SP	25/09/17																							
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>																									
<p>UNIT: SCALE - AS SHOWN</p>	<p>Size: A1 REV: 0</p>																								

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TYPICAL SECTION OF BORED CAST IN-SITU CONCRETE PILE AT X-X'

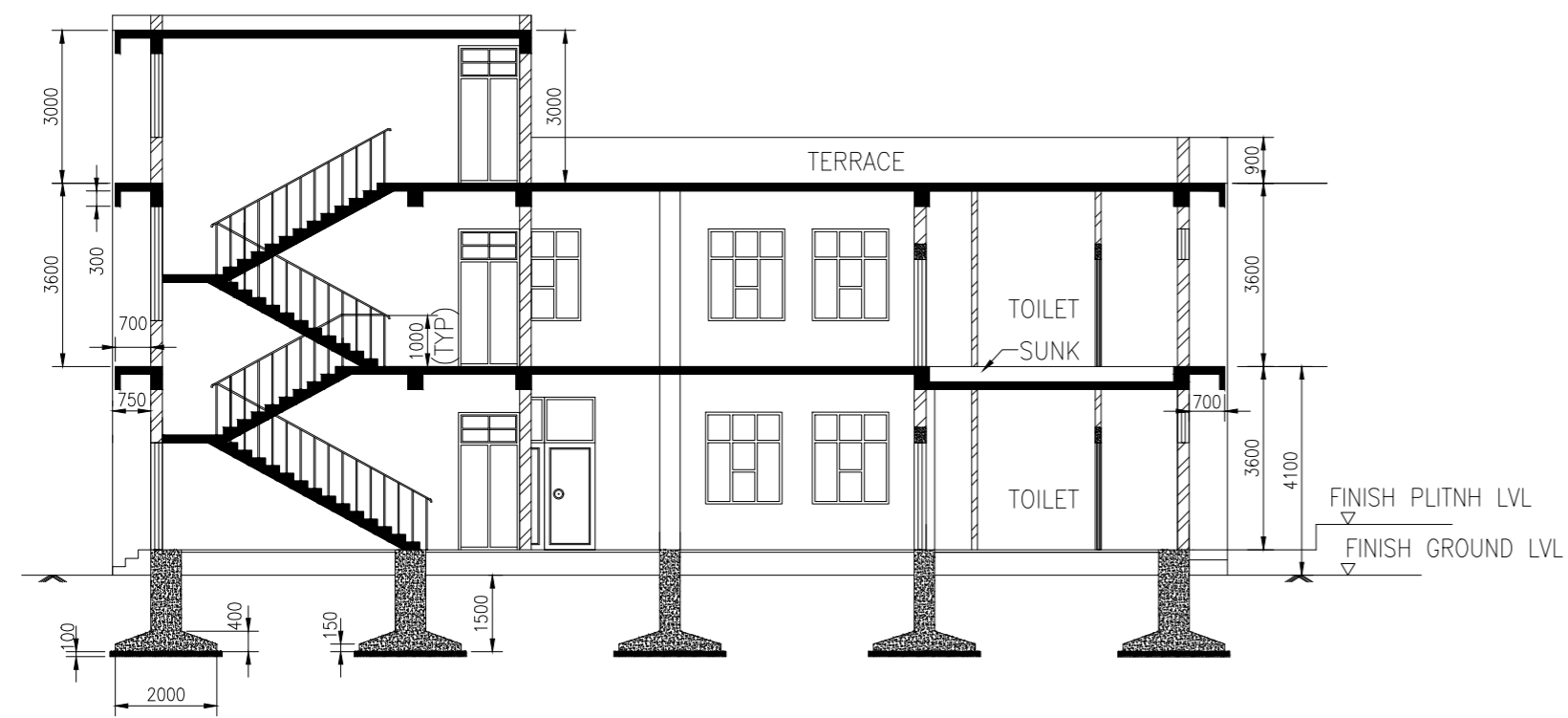
NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETRE
- 2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

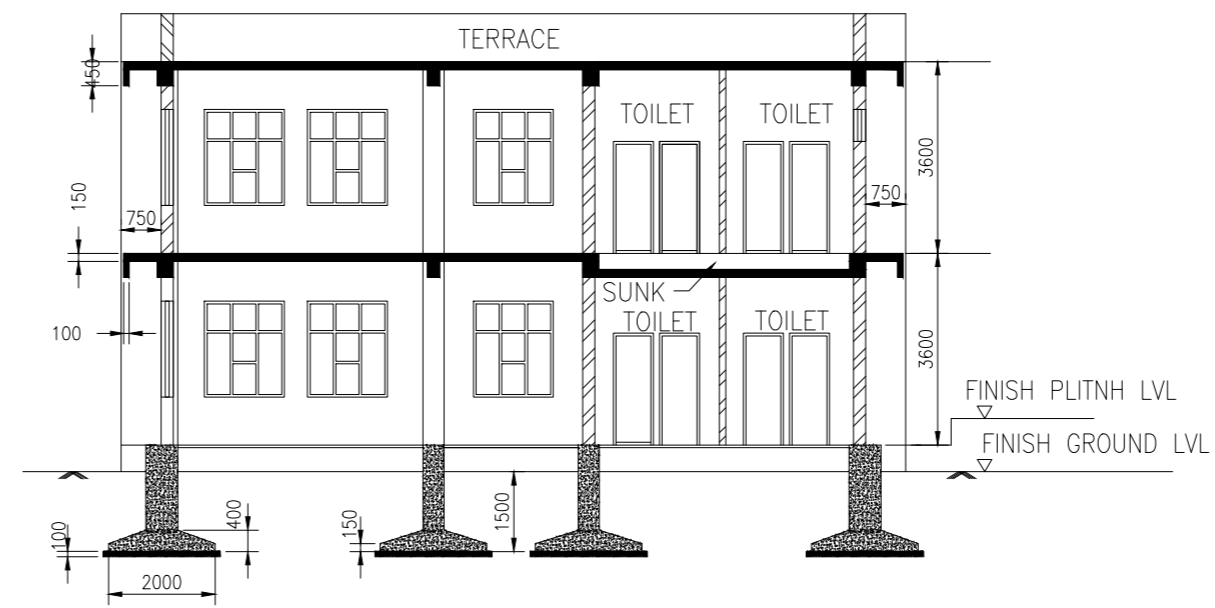
REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17		VAP	AM	SP

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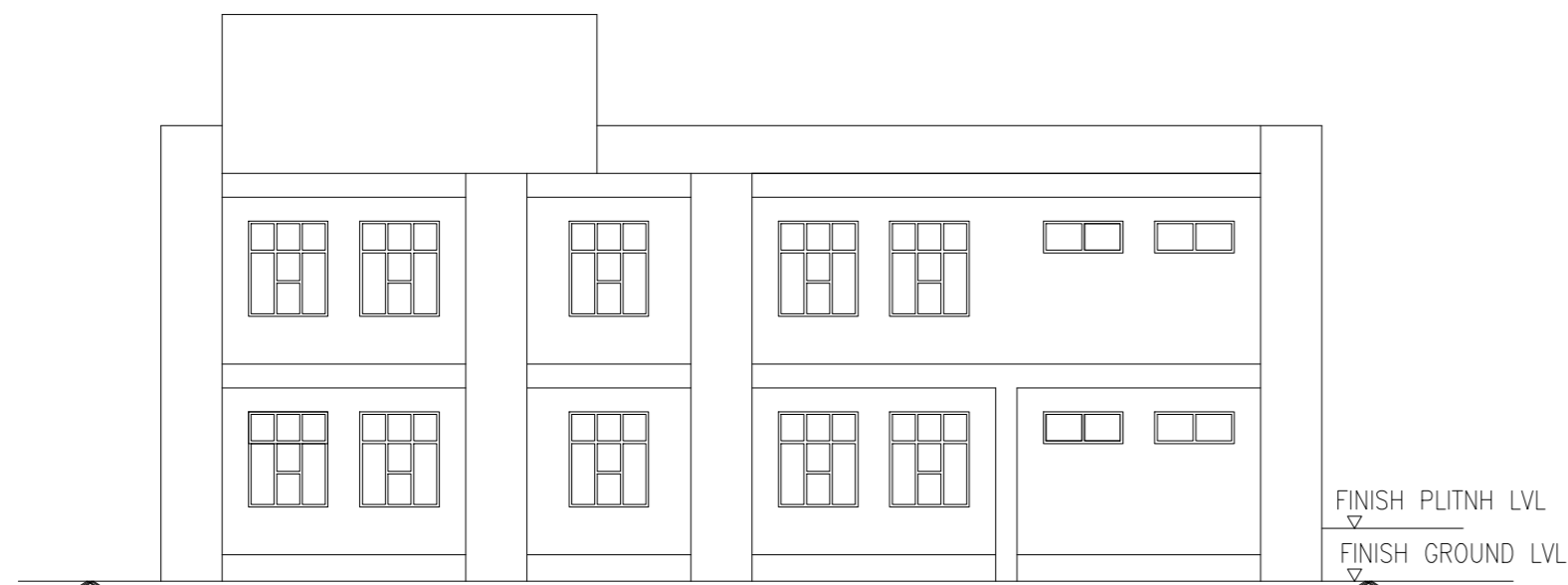
INLAND WATERWAYS AUTHORITY OF INDIA															
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT: HOWE		<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </tbody> </table>		NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE													
DRN	VAP	25/09/17													
CHD	AM	25/09/17													
APD	SP	25/09/17													
TITLE: IWT TERMINAL AT VARANASI TYPICAL DETAIL OF SHORE PROTECTION WORK		JOB. NO.: I-525	DRG. NO.: VTR-210												
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0												



SECTION A-A



SECTION B-B



FRONT ELEVATION






REAR ELEVATION

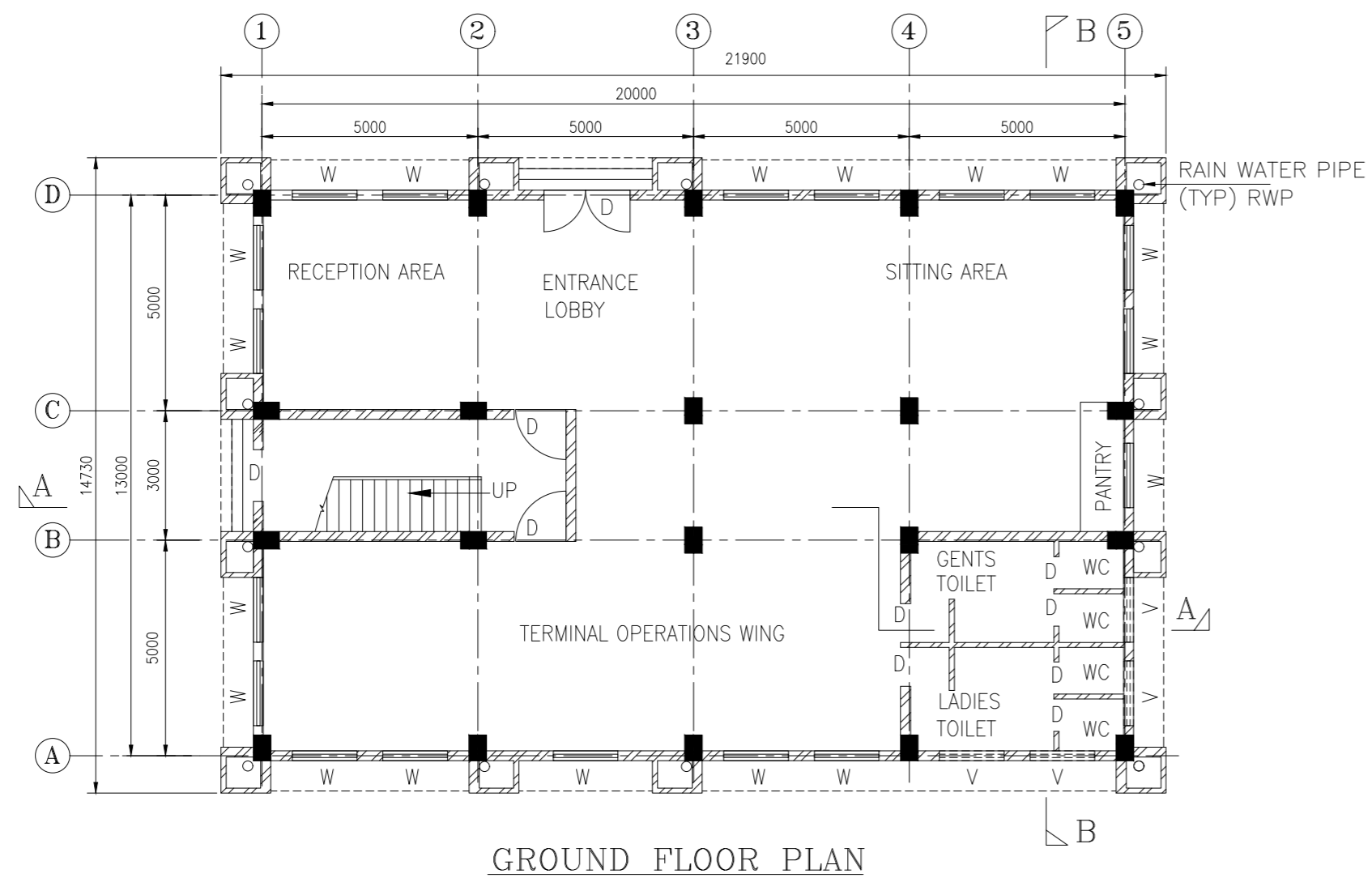
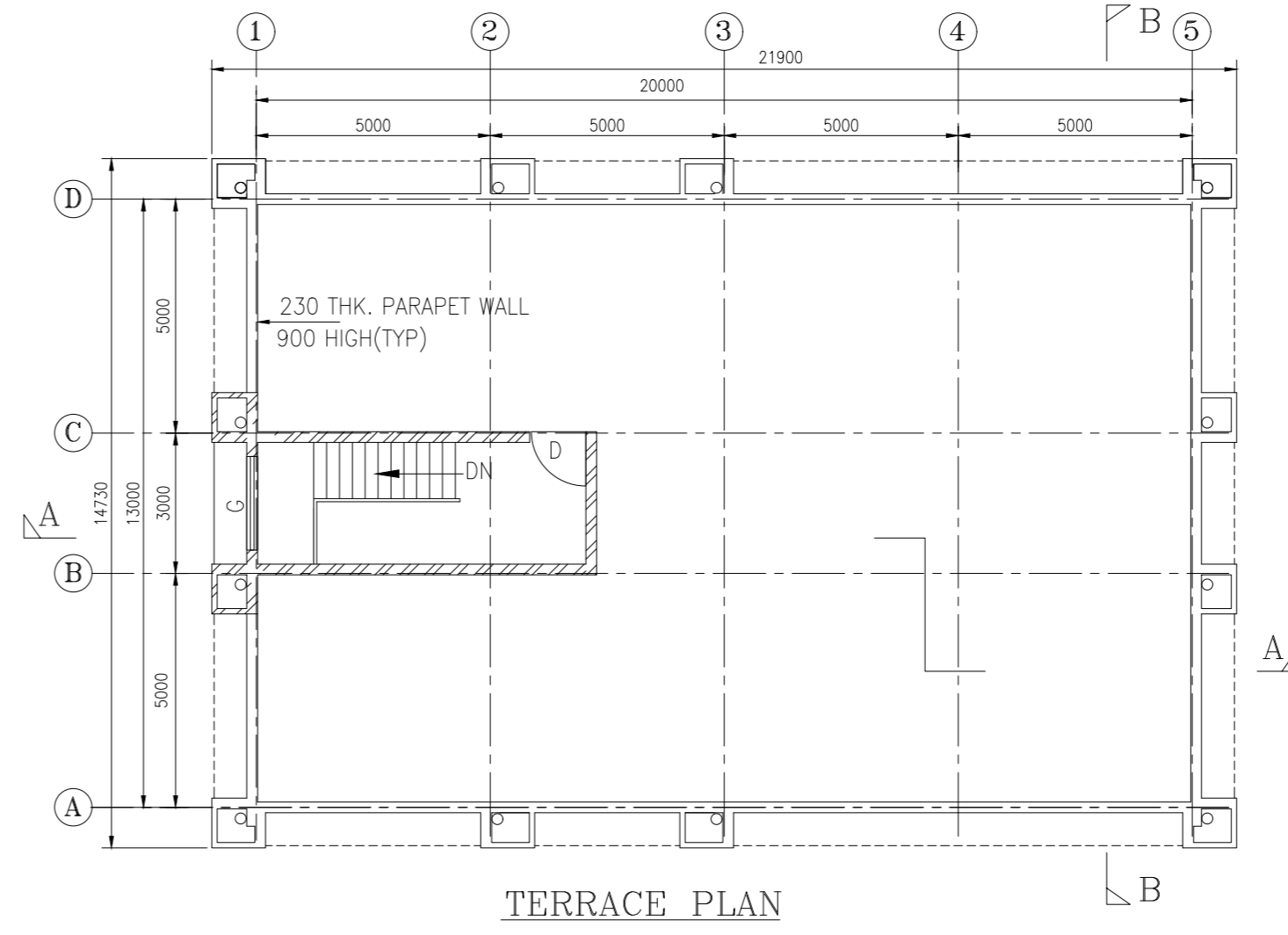
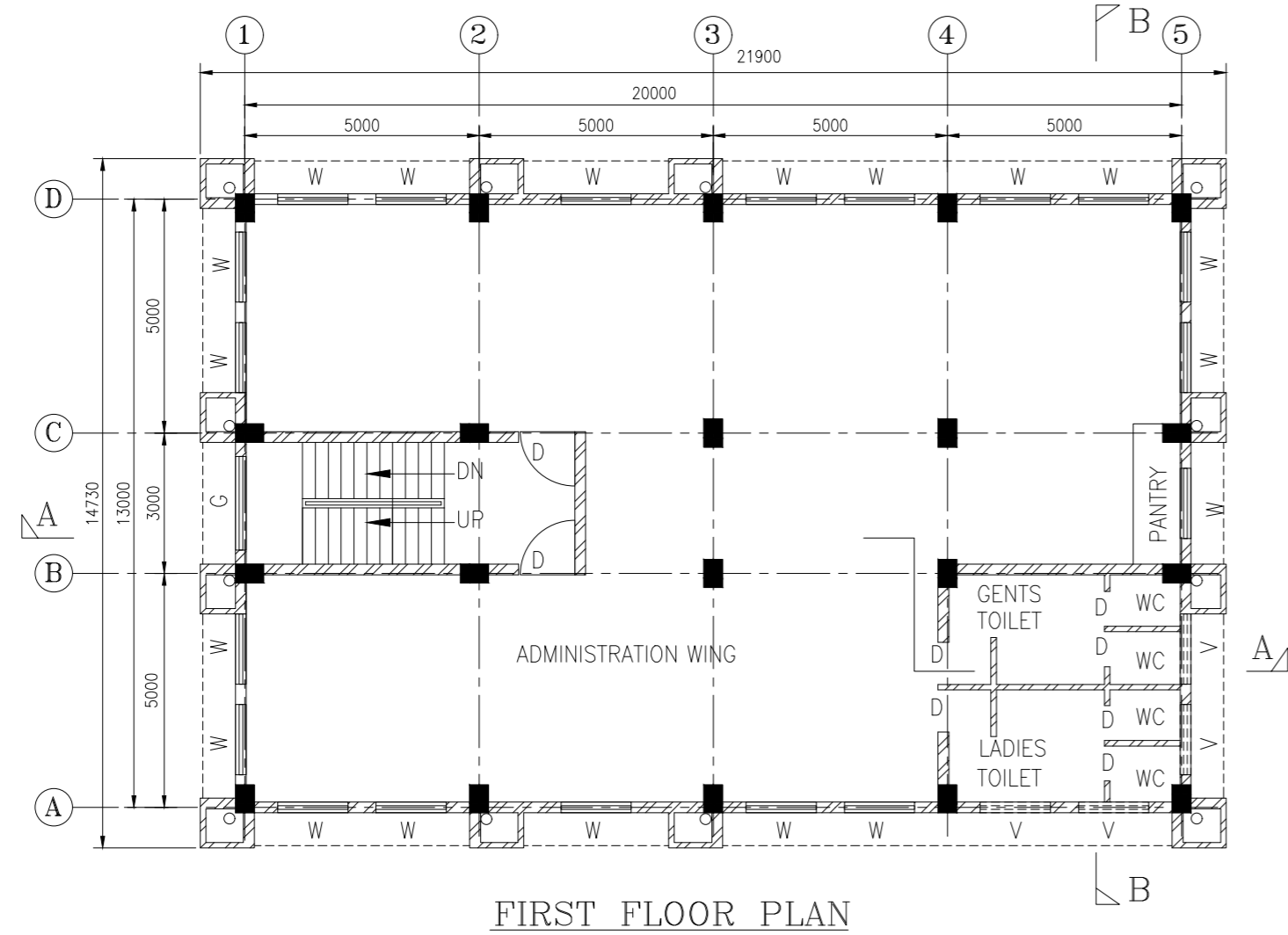
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. ALL LEVELS ARE IN METERS & ARE WITH RESPECT TO MSL

REV	DATE	DESCRIPTION	DRN	CHD	APD

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CONSULTANT  PMC PROJECTS <small>(INDIA) PRIVATE LIMITED</small> From vision to reality...													
<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>VAP</td> <td>05/09/17</td> </tr> <tr> <td>CHD</td> <td>DNS</td> <td>05/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>05/09/17</td> </tr> </tbody> </table>		NAME	SIGN	DATE	DRN	VAP	05/09/17	CHD	DNS	05/09/17	APD	SP	05/09/17
NAME	SIGN	DATE											
DRN	VAP	05/09/17											
CHD	DNS	05/09/17											
APD	SP	05/09/17											
TITLE IWT TERMINAL AT VARANASI TYPICAL ELEVATION OF TERMINAL ADMINISTRATION BUILDING													
<table border="1"> <thead> <tr> <th>JOB. NO.</th> <th>DRG. NO.</th> </tr> </thead> <tbody> <tr> <td>I-525</td> <td>VTR-211</td> </tr> </tbody> </table>		JOB. NO.	DRG. NO.	I-525	VTR-211								
JOB. NO.	DRG. NO.												
I-525	VTR-211												
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE													
	UNIT SCALE - AS SHOWN Size : A1 REV. 0												



SCHEDULE		
S.NO:	TYPE	DESCRIPTION
1.	D	DOOR
2.	W	WINDOW
3.	V	VENTILATOR
4.	G	GLASS WINDOW
5.	WC	WATER CLOSET

E.G.L. - EXISTING GROUND LEVEL
F.F.L. - FINISH FLOOR LEVEL

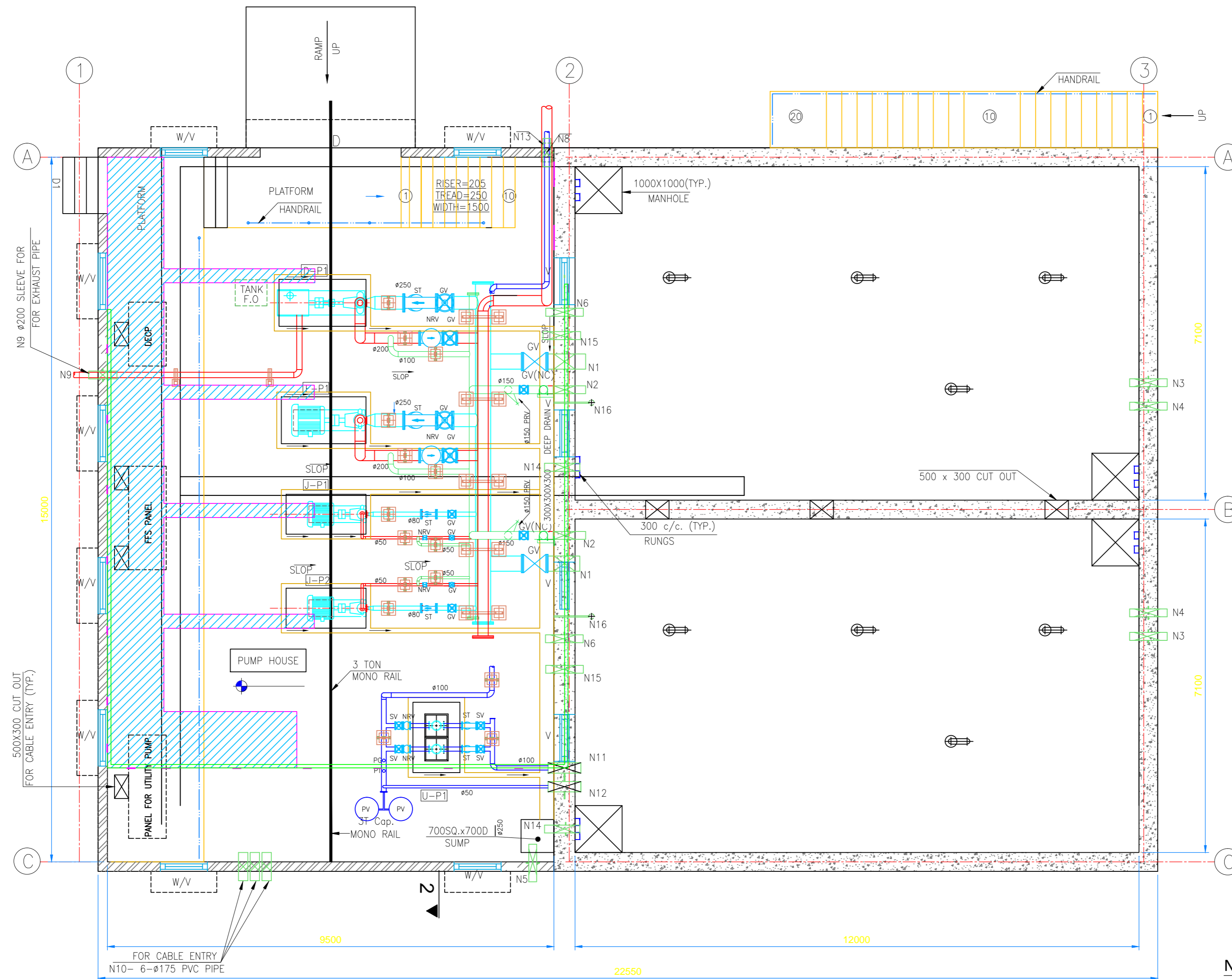
NOTES

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<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>	
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>	
<p>CONSULTANT: HOWE <small>INDIA PRIVATE LIMITED</small> From vision to reality...</p>	
<p>TITLE: IWT TERMINAL AT VARANASI TYPICAL LAYOUT OF TERMINAL ADMINISTRATION BUILDING</p>	
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>	
<p>UNIT: SCALE - AS SHOWN Size : A1 REV. 0</p>	

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17		VAP	AM	SP

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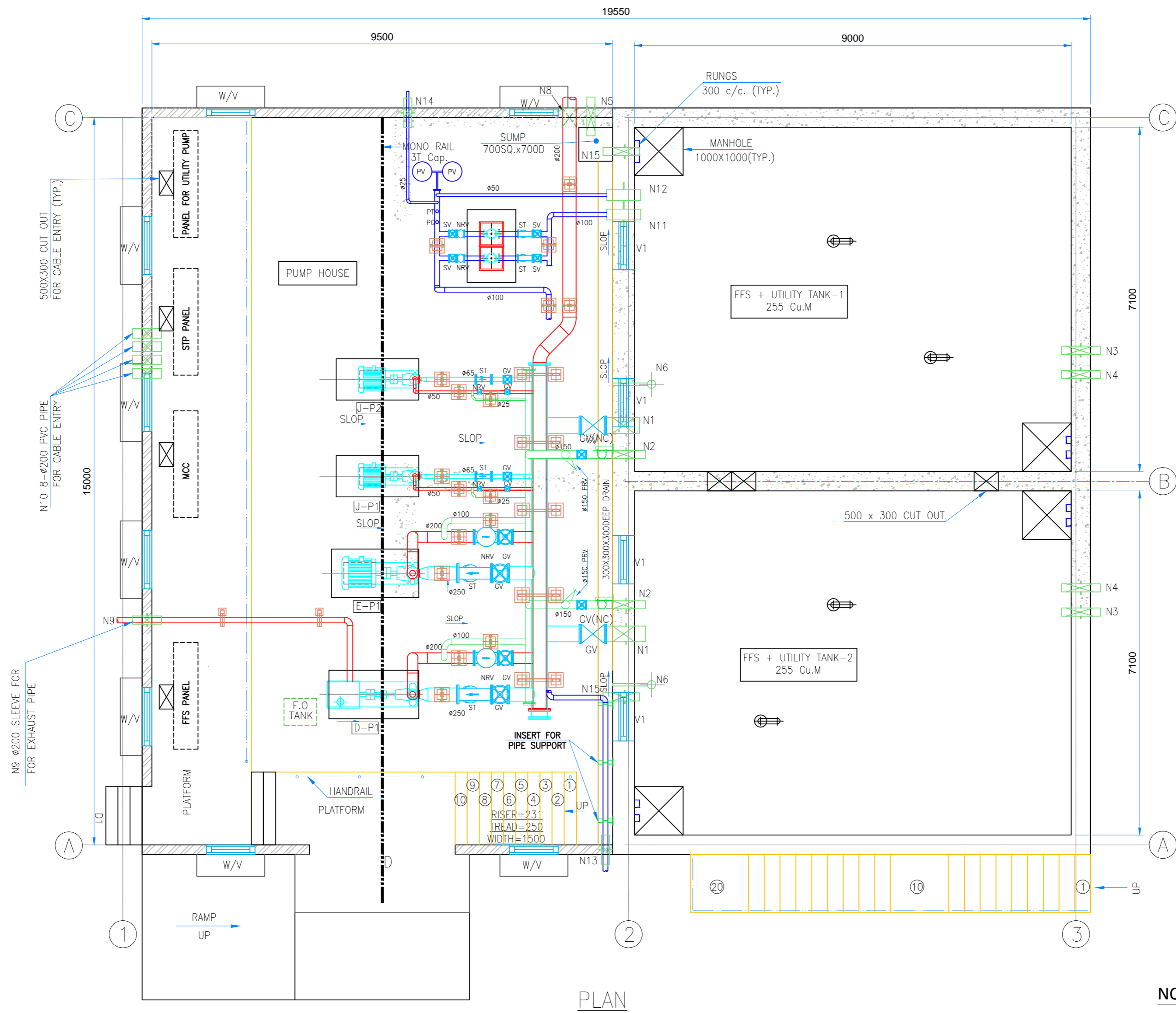
PLAN

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS

		INLAND WATERWAYS AUTHORITY OF INDIA	
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT HOWE		 PMC PROJECTS <small>(INDIA) PRIVATE LIMITED</small> From vision to reality...	
DRN	VAP	SKN	DATE
CHD	AM		25/09/17
APD	SP		25/09/17
TI IWT TERMINAL AT VARANASI LAYOUT OF FIRE FIGHTING PUMP HOUSE (FINAL PHASE)		JOB NO. I-525	DRC. NO. VTR-212
COORDINATE SYSTEM HERE ENTER CO-ORD SYSTEM HERE			
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REV	DATE	DESCRIPTION	DRN	CHD	APD	VAP	AM	SP
0	25/09/17							



PLAN

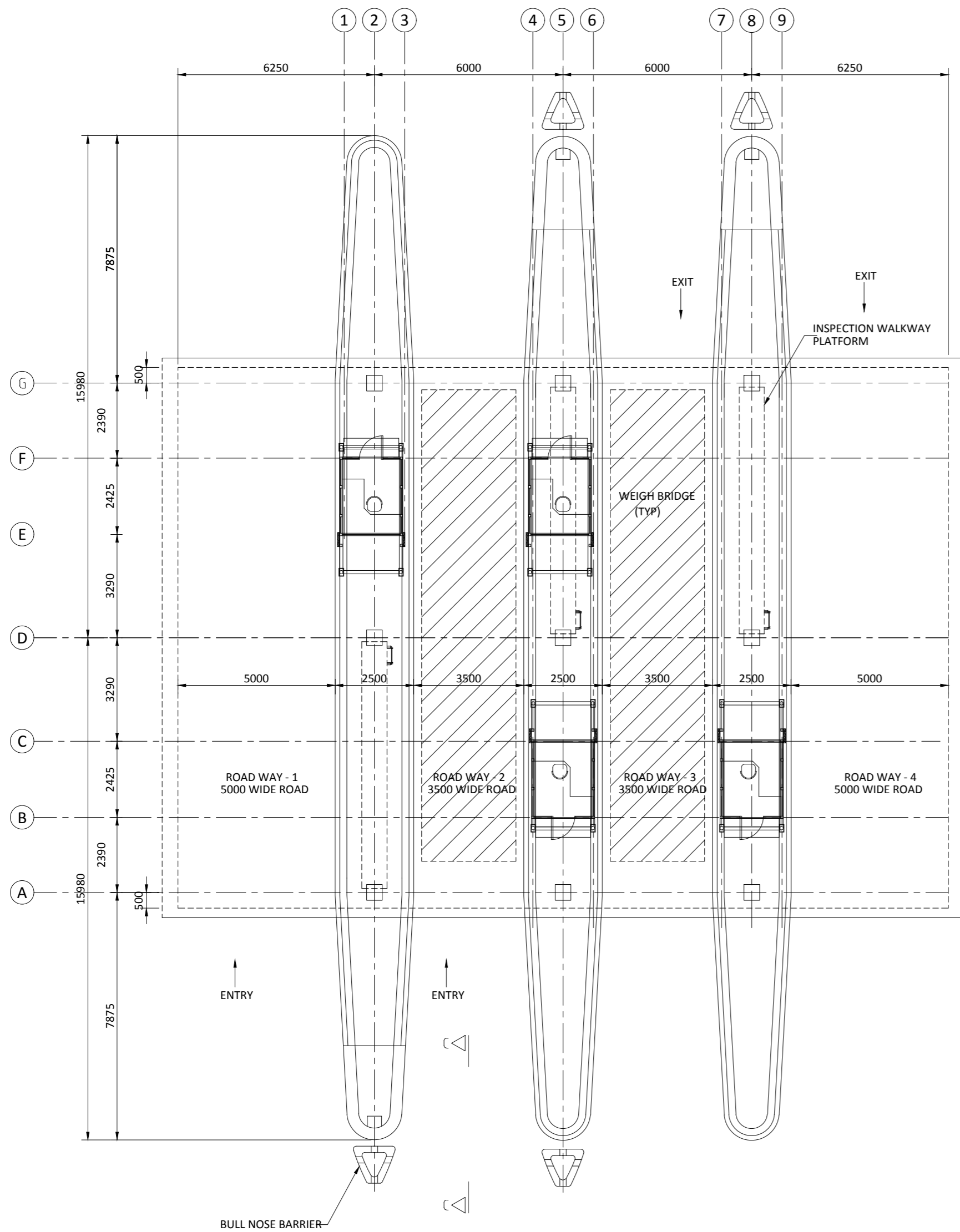
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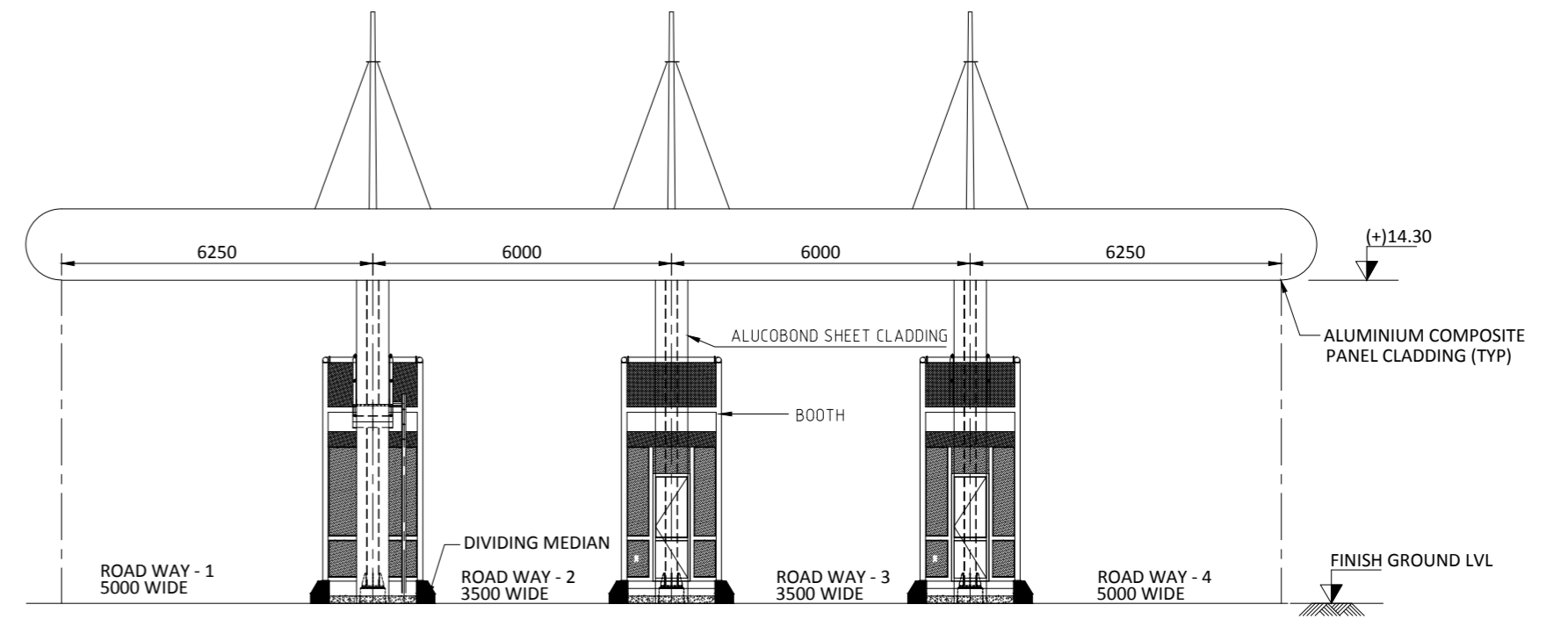
 INLAND WATERWAYS AUTHORITY OF INDIA			
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT:  		DRN: VAP CHD: AM APD: SP	DATE: 29/09/17 DATE: 29/09/17 DATE: 29/09/17
TITLE: IWT TERMINAL AT VARANASI LAYOUT OF FIRE FIGHTING PUMP HOUSE (PHASE-1B)		JOB NO.: I-525 DRC. NO.: VTR-212A	
COORDINATE SYSTEM: JISCI ENTER CO-ORD SYSTEM HERE			
UNIT: SCALE - AS SHOWN		Size: A1	PIV: 0

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	29/09/17		VAP	AM	SP

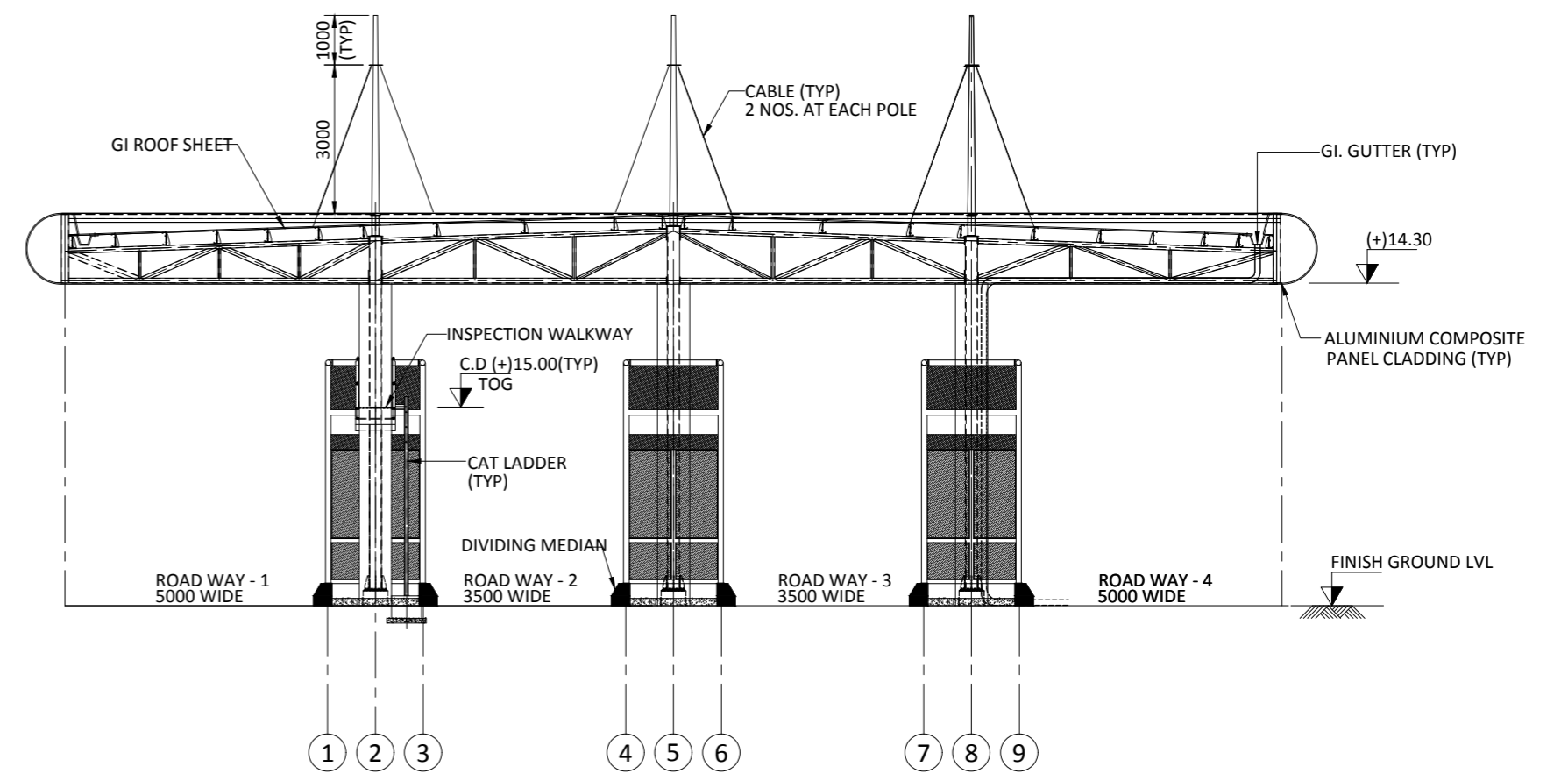
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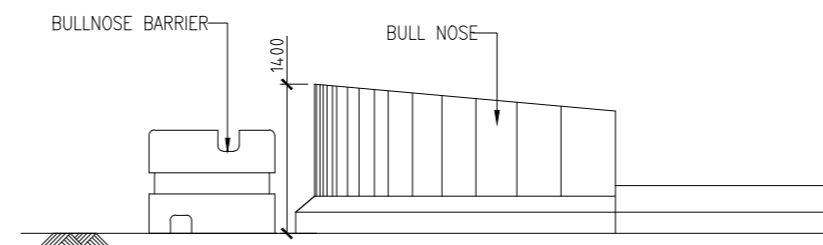
GATE COMPLEX ENTRY & EXIT PLAN



VIEW B-B



SECTION A-A



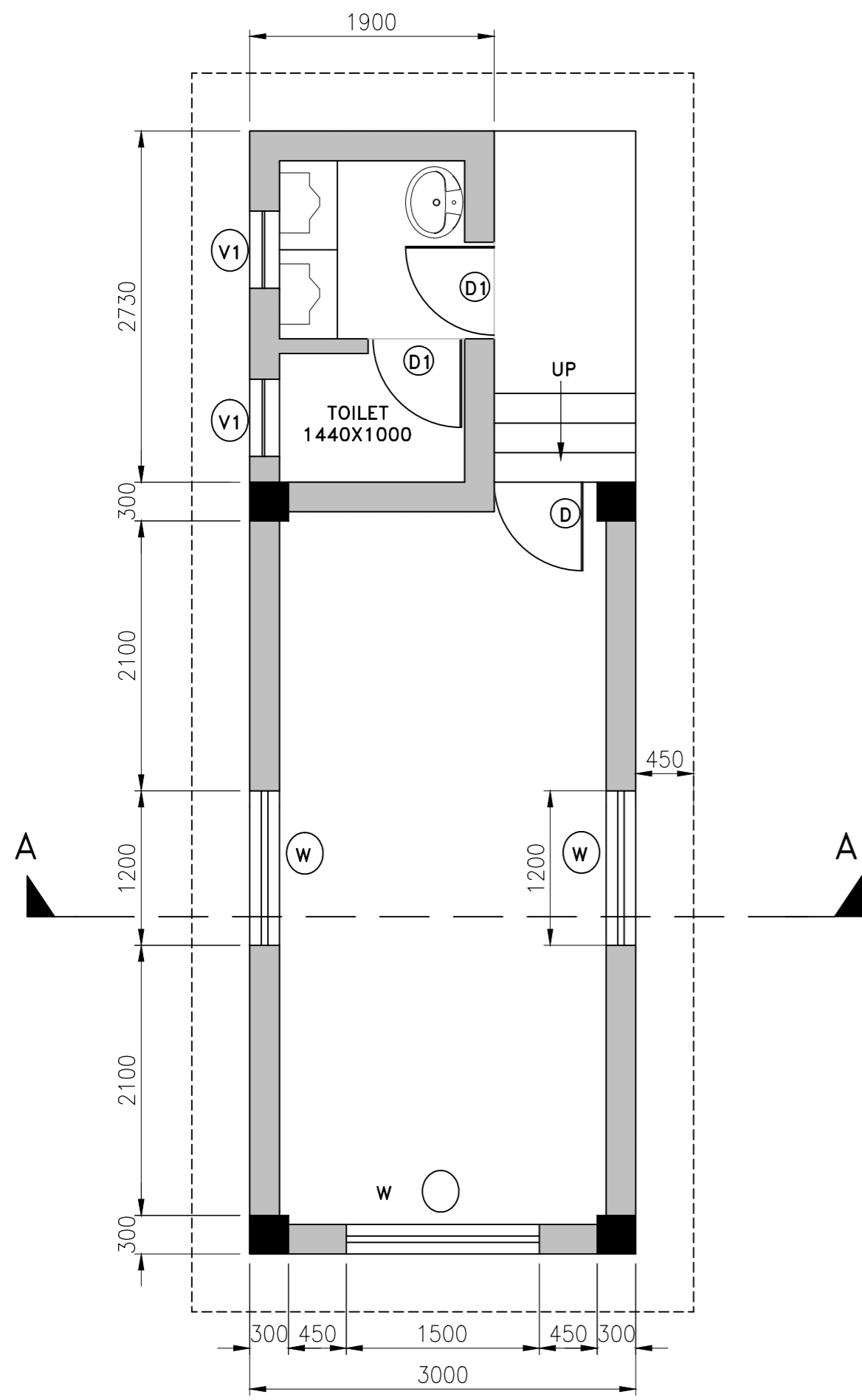
VIEW C-C
(SCALE 1:50)

NOTES

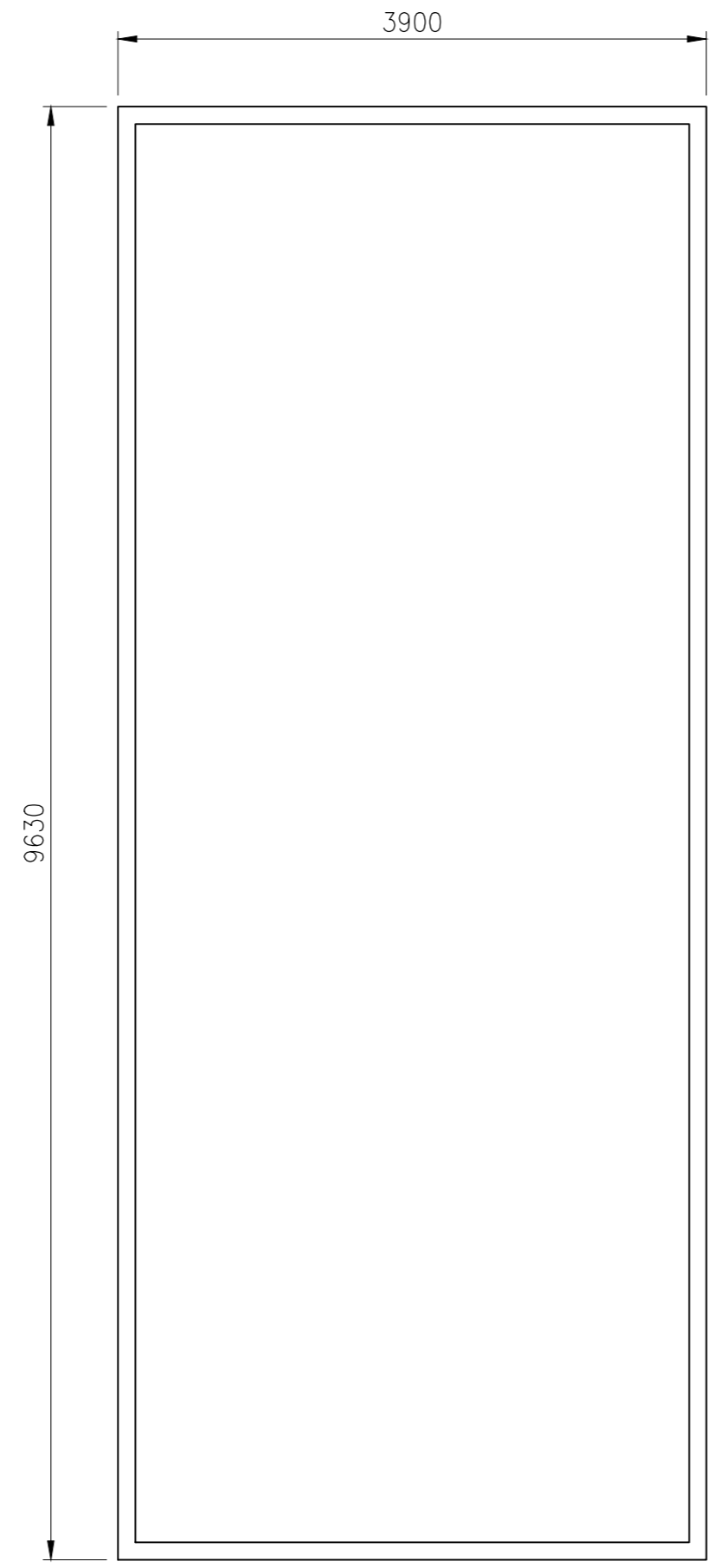
1. ALL DIMENSIONS ARE IN MILLIMETERS
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		INLAND WATERWAYS AUTHORITY OF INDIA													
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NAME	SIGN	DATE													
DRN	VAP	25/09/17													
CHD	AM	25/09/17													
APD	SP	25/09/17													
TITLE	IWT TERMINAL AT VARANASI GENERAL ARRANGEMENT OF GATE COMPLEX		JOB. NO. I-525 DRG. NO. VTR- 213												
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
UNIT SCALE - AS SHOWN		Size : A1	REV. 0												

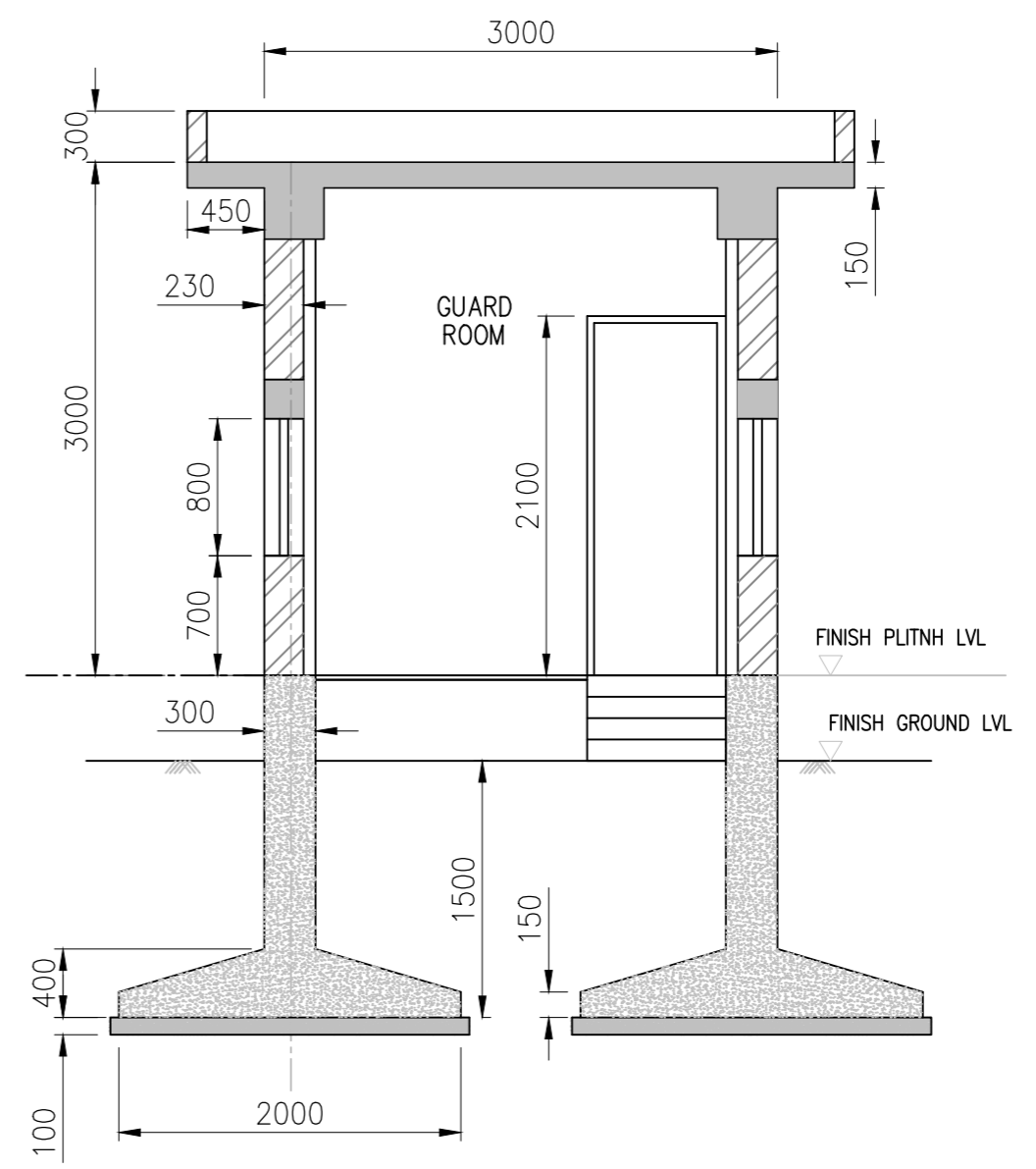
0	25/09/17		VAP	AM	SP
REV	DATE	DESCRIPTION	DRN	CHD	APD
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GROUND FLOOR PLAN



TERRACE PLAN



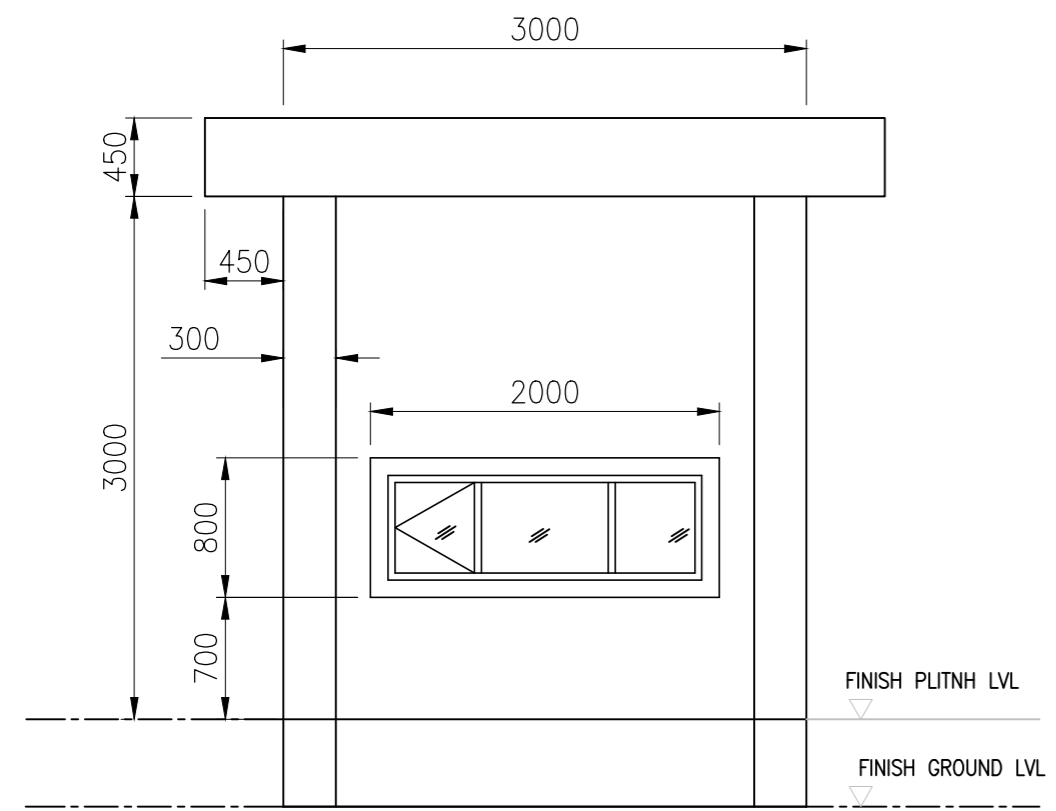
SECTION A-A

SCHEDULE		
S.NO:	TYPE	DESCRIPTION
1.	D	DOOR
2.	W	WINDOW

E.G.L.-EXISTING GROUND LEVEL
F.F.L.-FINISH FLOOR LEVEL

NOTES

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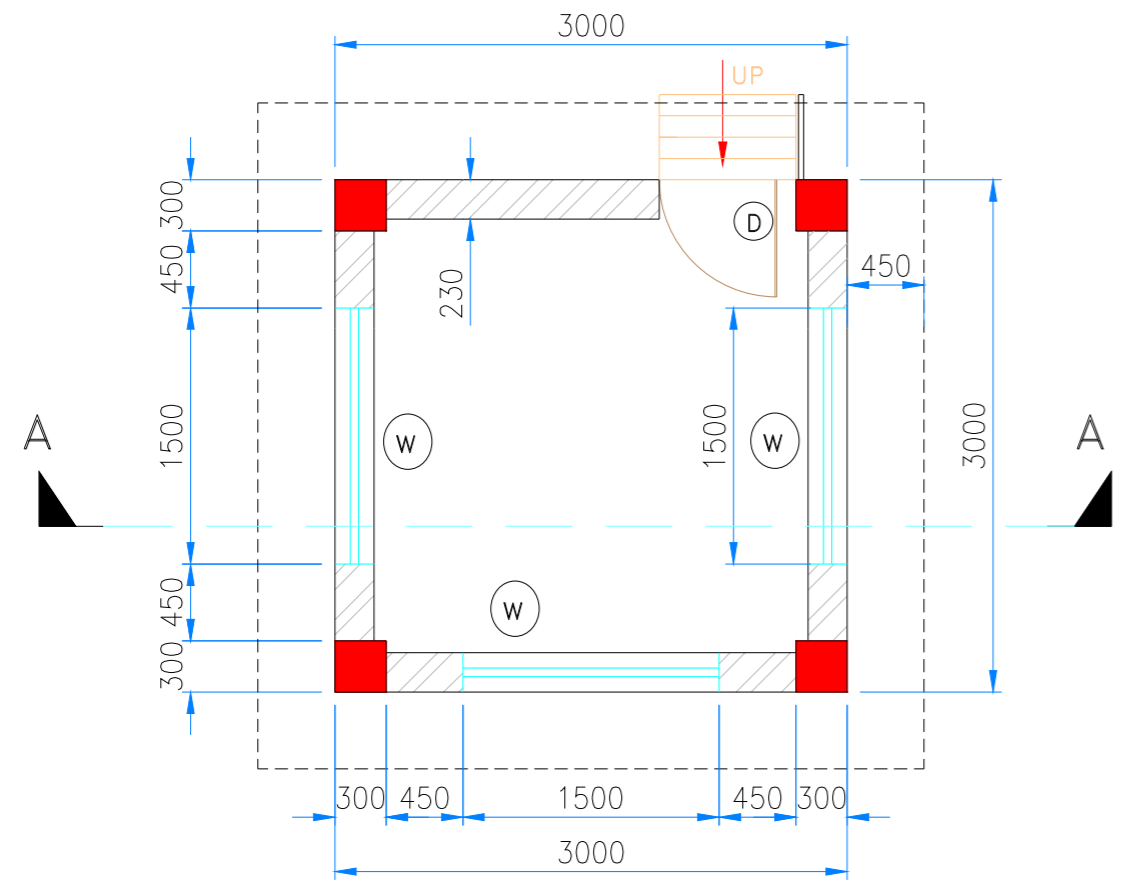


FRONT ELEVATION

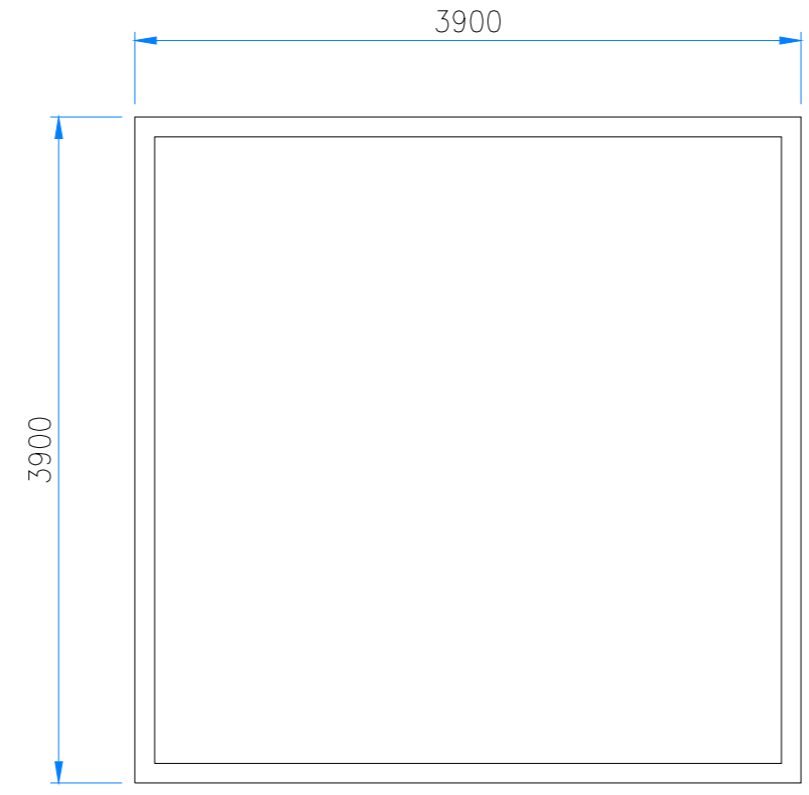
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DRN	CHD	APD	DRN	CHD	APD
0	25/09/17				

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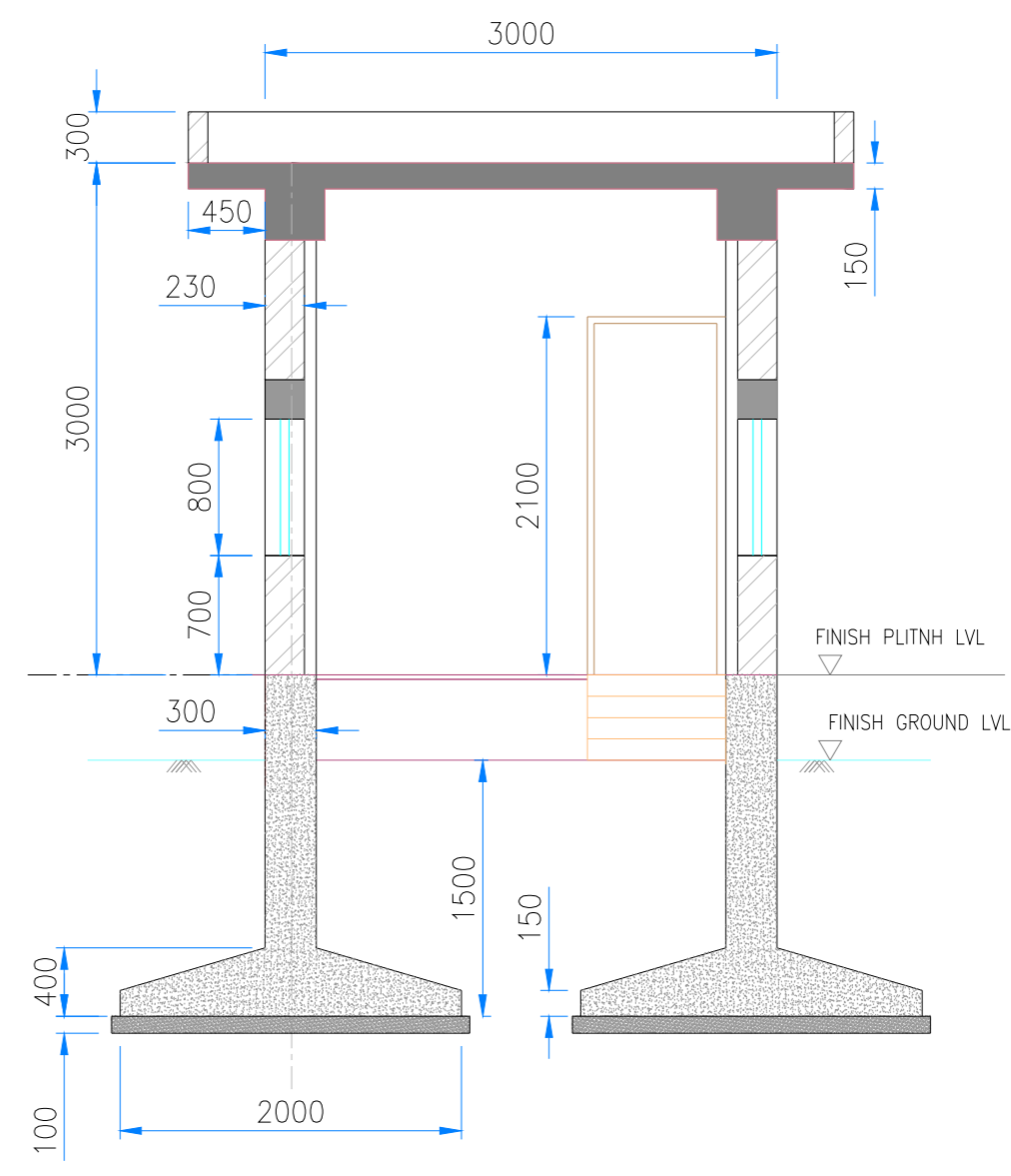
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PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT			NAME SIGN DATE
		FROM VISION TO REALITY...	DRN VAP 25/09/17 CHD AM 25/09/17 APD SP 25/09/17
TITLE		IWT TERMINAL AT VARANASI SECURITY OFFICE	JOB. NO. DRG. NO. I-525 VTR-214
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE			
		UNIT SCALE - AS SHOWN	Size : A1 REV. 0



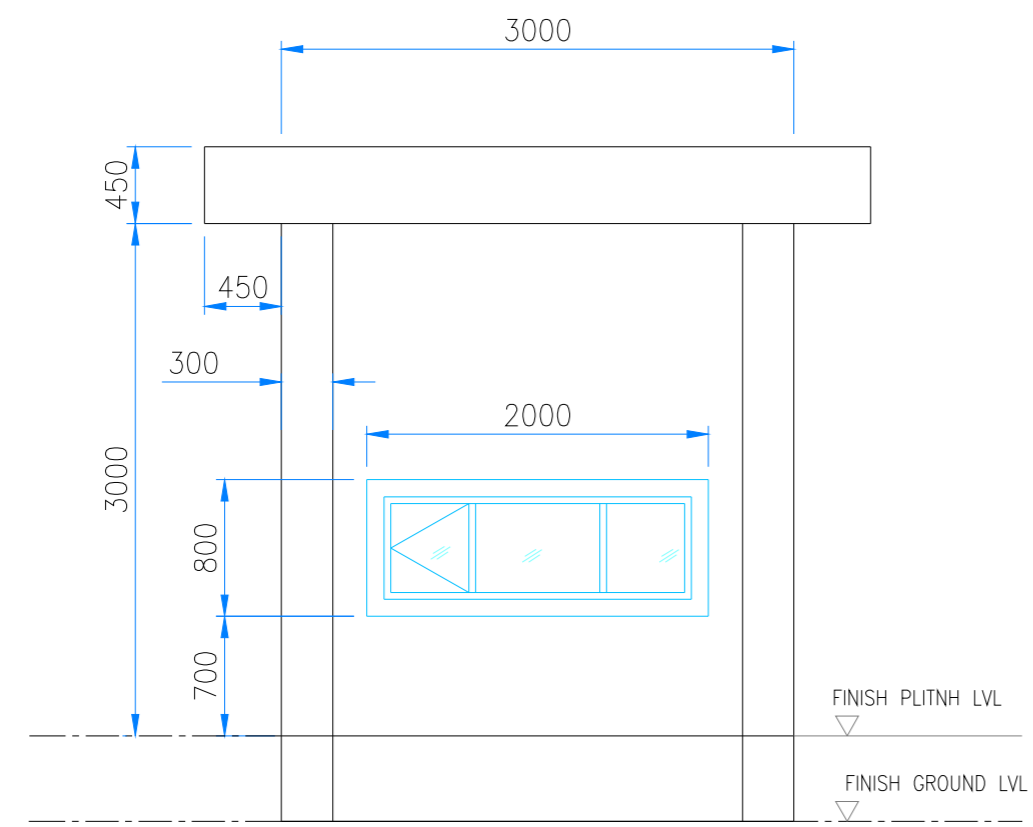
GROUND FLOOR PLAN



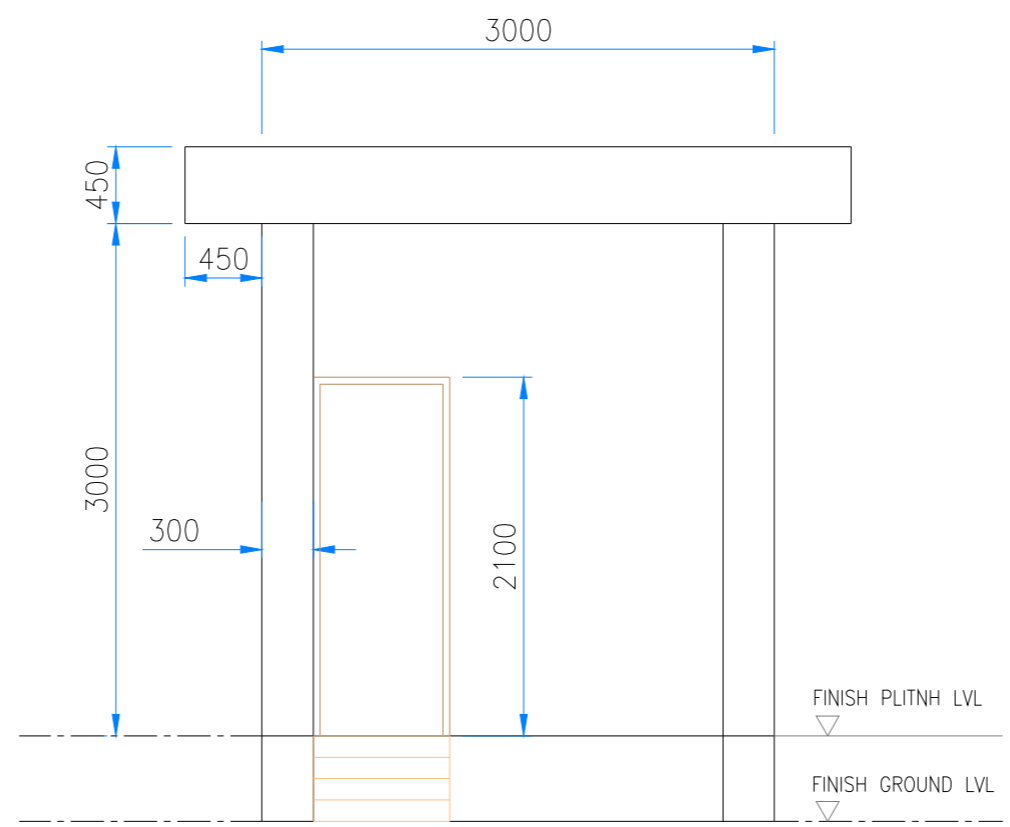
TERRACE PLAN



SECTION A-A



FRONT ELEVATION



REAR ELEVATION

SCHEDULE		
S.NO.	TYPE	DESCRIPTION
1.	D	DOOR
2.	W	WINDOW

E.G.L.-EXISTING GROUND LEVEL
F.F.L.-FINISH FLOOR LEVEL

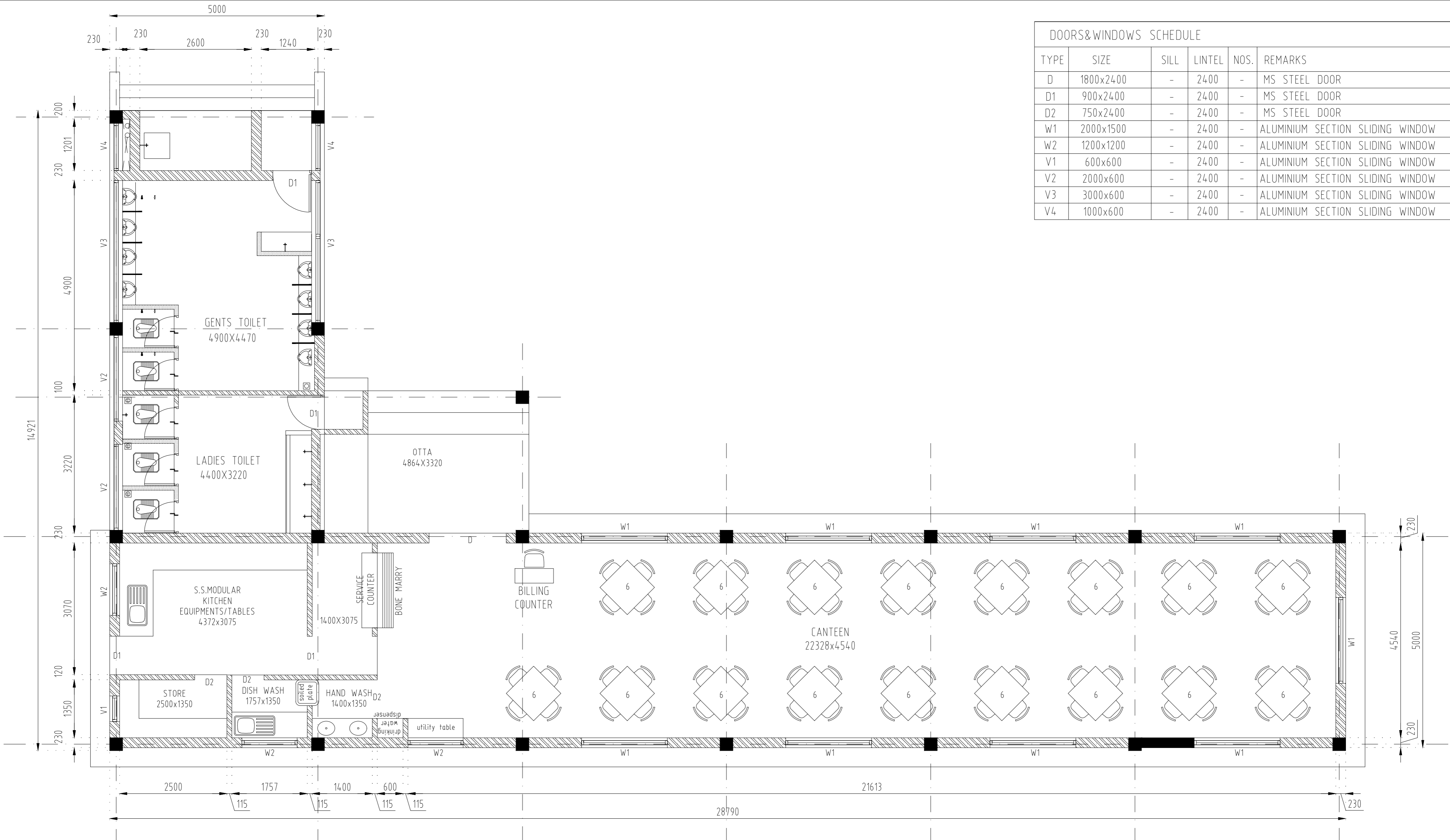
NOTES

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REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17		VAP	AM	SP

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<p>CONSULTANT: HOWE</p>		<p>PMC PROJECTS (INDIA) PRIVATE LIMITED From vision to reality...</p>	
<p>TITLE: IWT TERMINAL AT VARANASI WEIGH BRIDGE CONTROL ROOM</p>		<p>JOB. NO. I-525 DRG. NO. VTR-215</p>	
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>			
<p>UNIT: SCALE - AS SHOWN</p>		<p>Size : A1 REV. 0</p>	



DOORS&WINDOWS SCHEDULE					
TYPE	SIZE	SILL	LINTEL	NOS.	REMARKS
D	1800x2400	-	2400	-	MS STEEL DOOR
D1	900x2400	-	2400	-	MS STEEL DOOR
D2	750x2400	-	2400	-	MS STEEL DOOR
W1	2000x1500	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW
W2	1200x1200	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW
V1	600x600	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW
V2	2000x600	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW
V3	3000x600	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW
V4	1000x600	-	2400	-	ALUMINIUM SECTION SLIDING WINDOW

PLAN

NOTE :-
1. ALL DIMENSIONS ARE IN MM .

REV.	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17		VAP	AM	SP

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INLAND WATERWAYS AUTHORITY OF INDIA

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CONSULTANT: **HOWE** (PMG PROJECTS INDIA PRIVATE LIMITED)

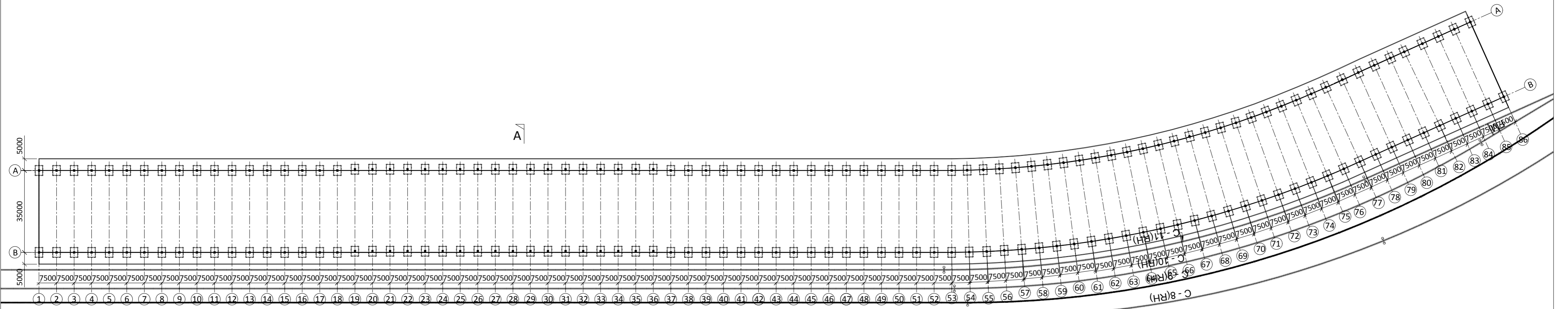
NAME	SIGN	DATE
DRN	VAP	25/09/17
CHD	AM	25/09/17
APD	SP	25/09/17

TITLE: **IWT TERMINAL AT VARANASI LAYOUT OF CANTEEN WITH TOILET**

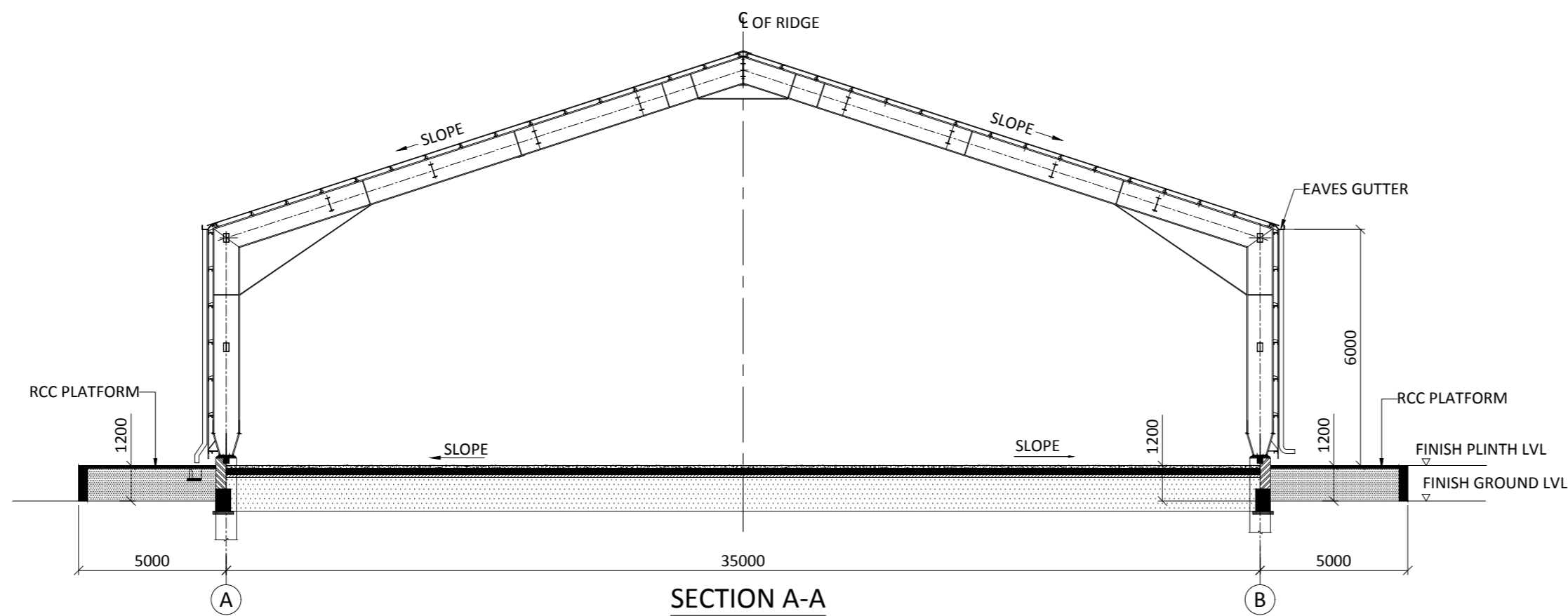
JOB. NO. **I-525** DRG. NO. **VTR-216**

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UNIT: **SCALE - AS SHOWN** Size: **A1** REV. **0**



LAYOUT PLAN OF SHED



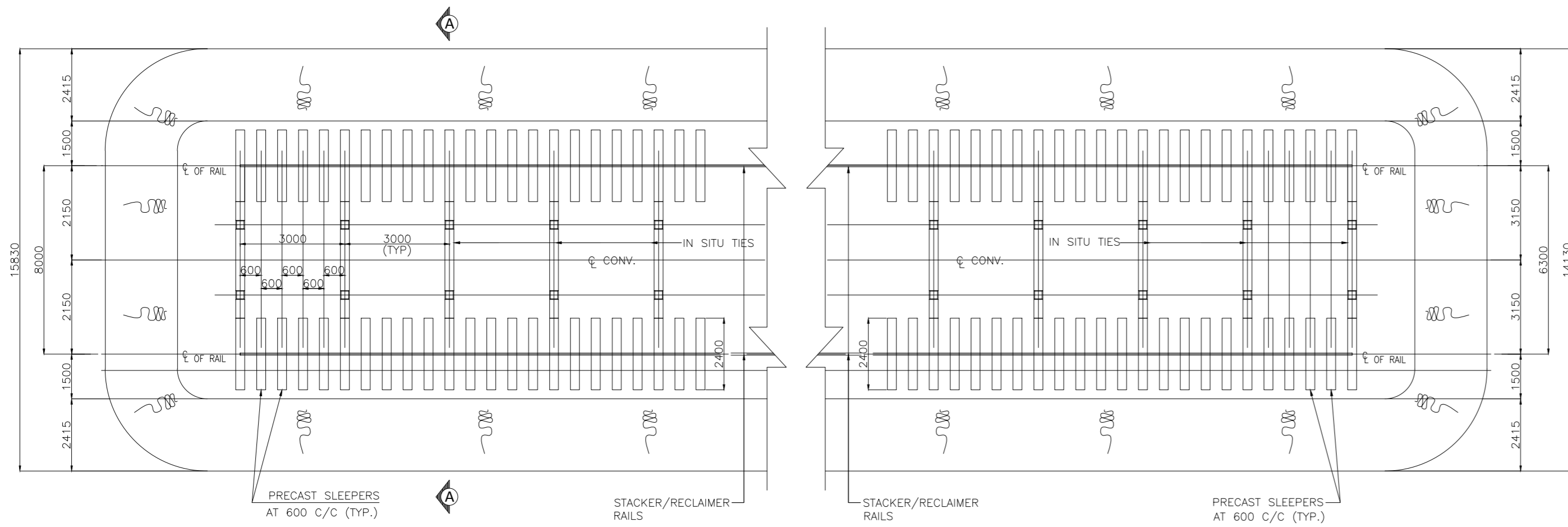
SECTION A-A

NOTES

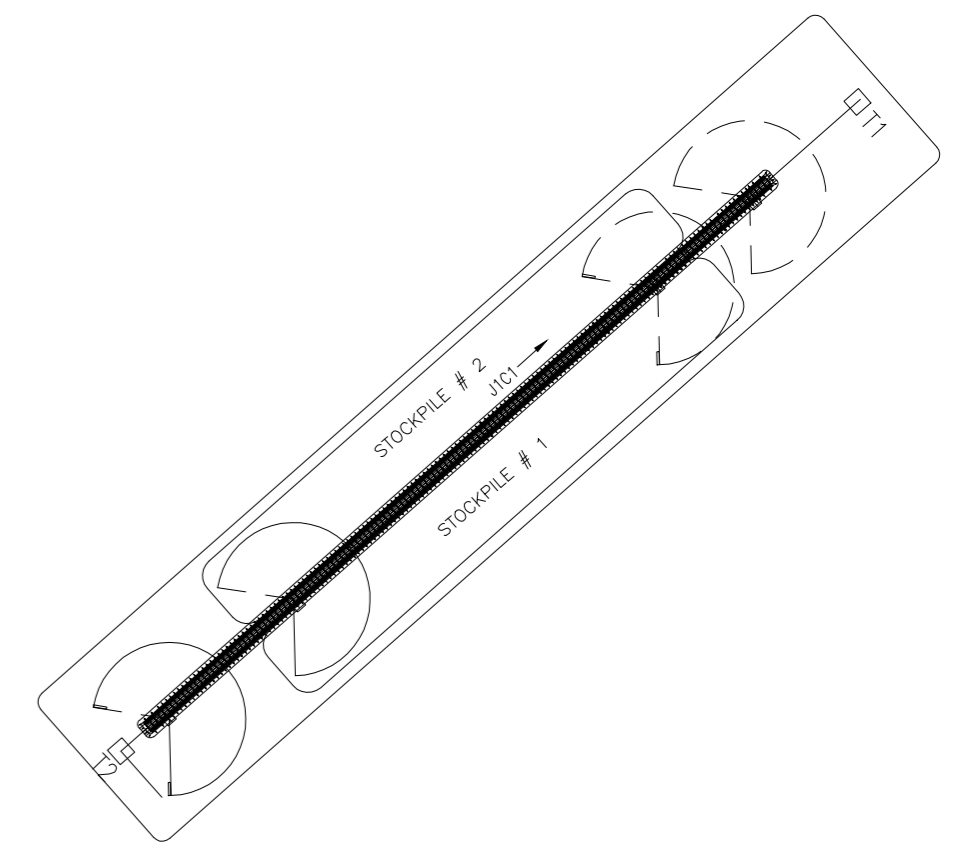
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INLAND WATERWAYS AUTHORITY OF INDIA	
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)	
CONSULTANT: HOWE	
TITLE: IWT TERMINAL AT VARANASI LAYOUT & ELEVATION OF COVERED STORAGE SHED	
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE	
UNIT: SCALE - AS SHOWN	Size : A1 REV. 0

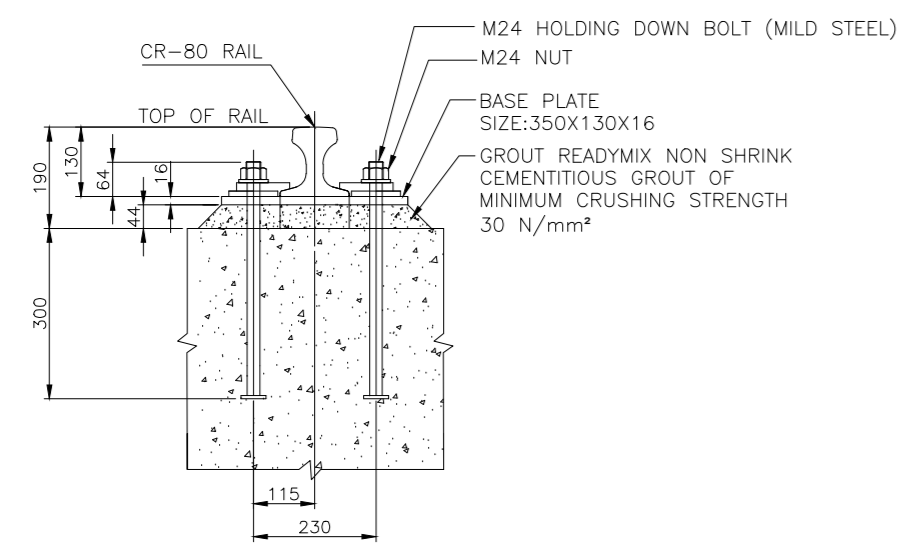
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<small>THIS DESIGN OR DRAWING IS THE PROPERTY OF HOWE. IT IS SUBJECT TO THEIR RECALL AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</small>					



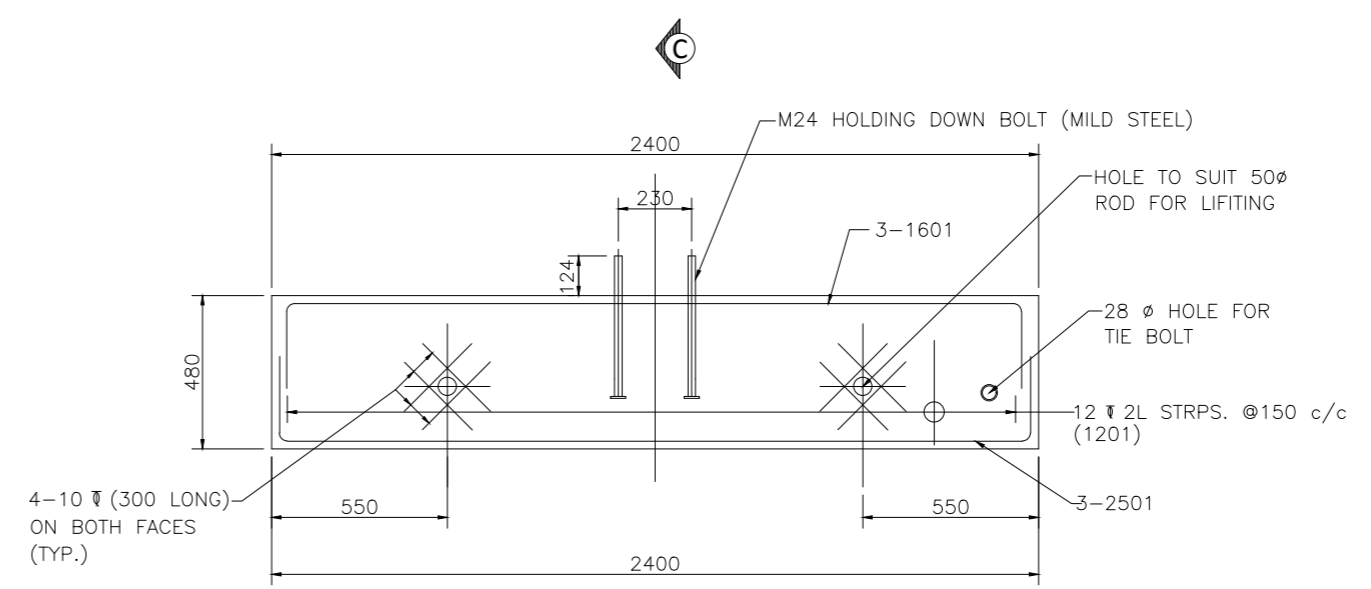
PART PLAN OF STACKER/RECLAIMER TRACK



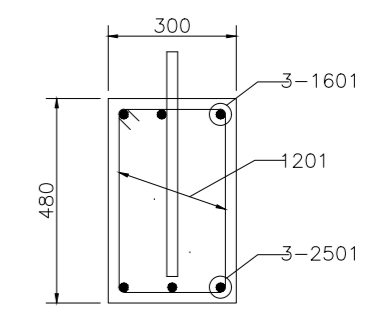
KEY PLAN



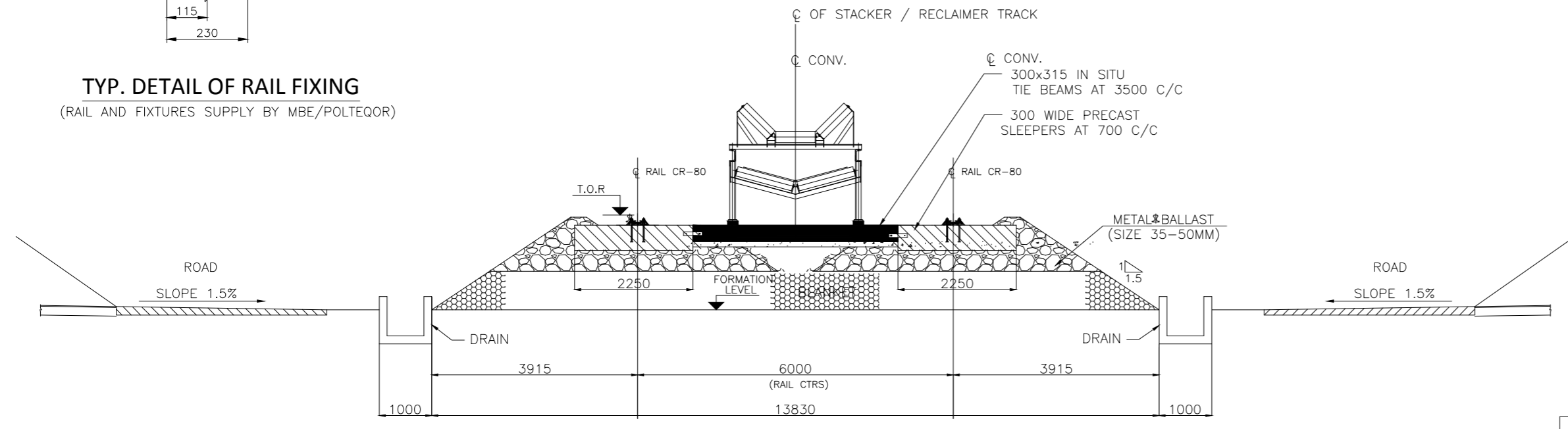
TYP. DETAIL OF RAIL FIXING
(RAIL AND FIXTURES SUPPLY BY MBE/POLTEGOR)



TYP. DETAIL OF PRECAST SLEEPER



SECTION C-C



SECTION A-A
(TYP. SECTION OF STACKER RECLAIMER TRACK.)

NOTE

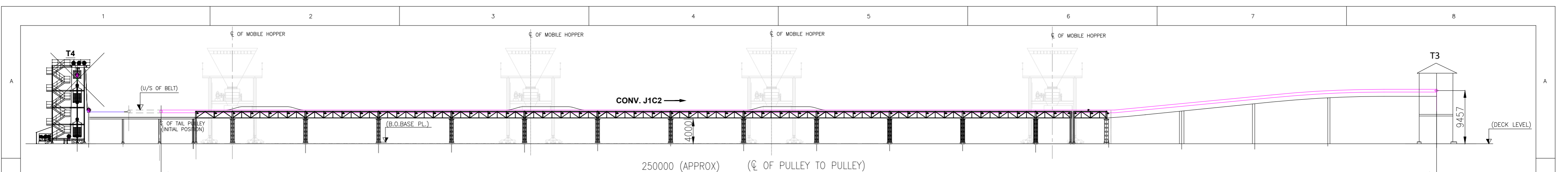
1. ALL DIMENSIONS ARE IN MILLIMETERS

INLAND WATERWAYS AUTHORITY OF INDIA			
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT:		NAME:	SIGN:
	HOWE	DRN:	VAP
		CHD:	AM
		APD:	SP
TITLE: IWT TERMINAL AT VARANASI		JOB. NO.:	ORG. NO.:
TYPICAL DETAILS OF STOCKYARD		I-525	VTR-218

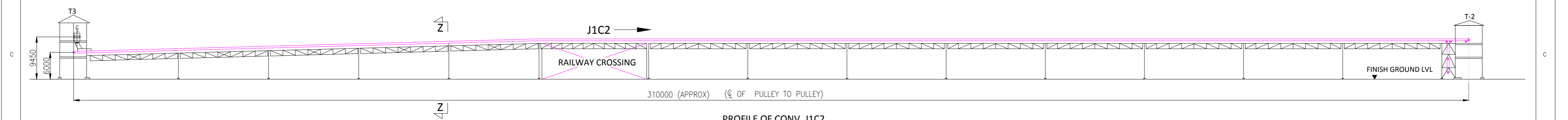
REV.	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17		VAP	AM	SP

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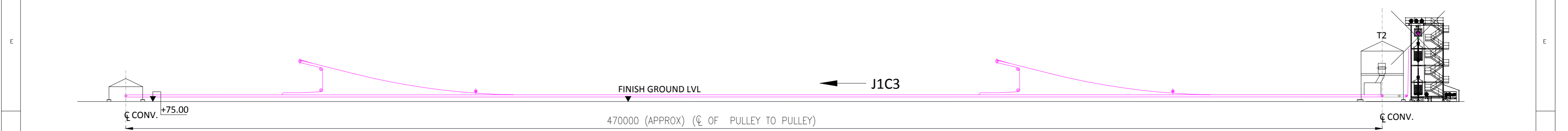
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UNIT:	SCALE - AS SHOWN
Size:	A1
REV.	0



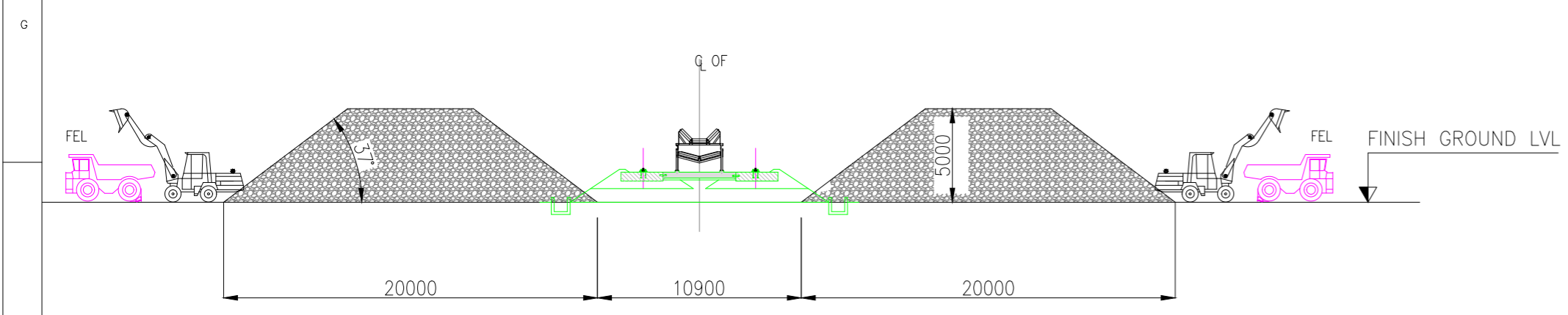
CONVEYOR GEOMETRY FOR CONV. J1C1



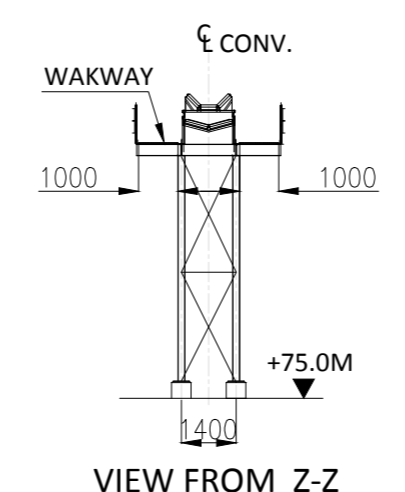
PROFILE OF CONV. J1C2



PROFILE OF CONV. J1C3



CROSS SECTION FOR STONE CHIPS



VIEW FROM Z-Z

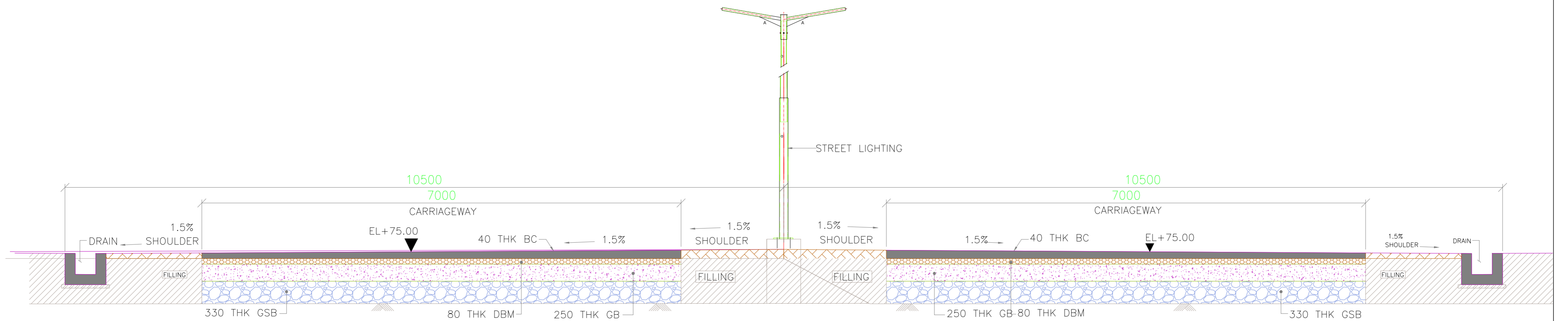
NOTES

1. ALL LEVELS ARE IN METRES AND ARE WITH RESPECT TO MSL.
2. ALL DIMENSIONS ARE IN MILLIMETERS

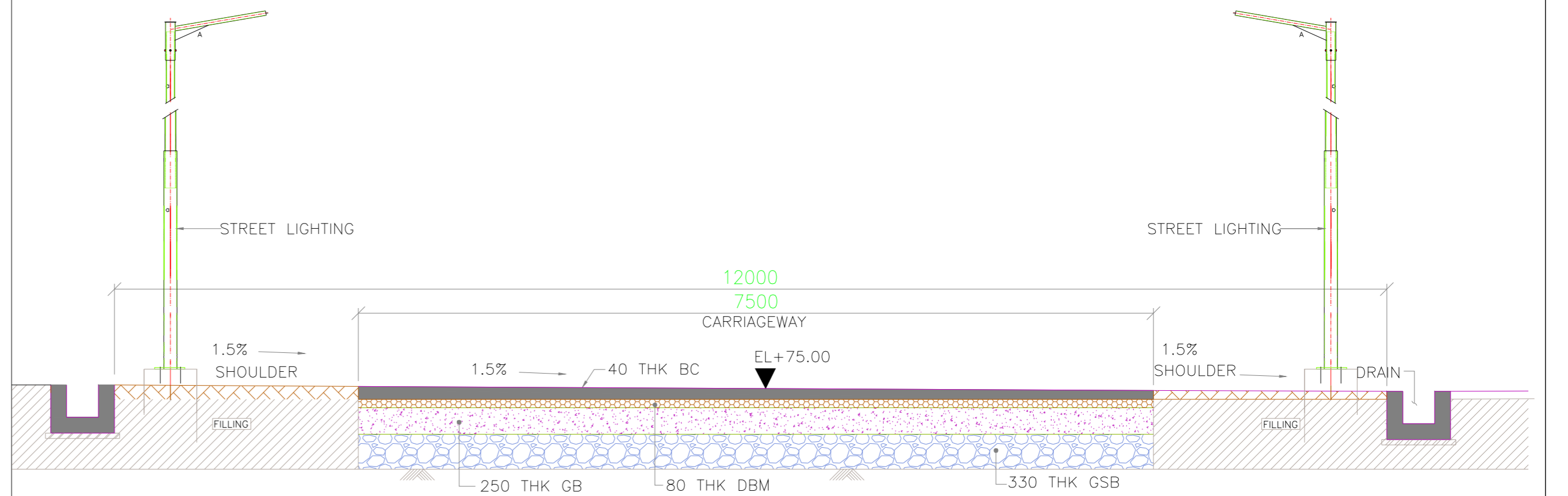
<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>															
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>															
<p>CONSULTANT: PMC PROJECTS (INDIA) PRIVATE LIMITED From vision to reality...</p>		<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </table>		NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE													
DRN	VAP	25/09/17													
CHD	AM	25/09/17													
APD	SP	25/09/17													
<p>TITLE: IWT TERMINAL AT VARANASI CONVEYOR PROFILE</p>		<table border="1"> <tr> <th>JOB. NO.</th> <th>DRG. NO.</th> </tr> <tr> <td>I-525</td> <td>VTR-219</td> </tr> </table>		JOB. NO.	DRG. NO.	I-525	VTR-219								
JOB. NO.	DRG. NO.														
I-525	VTR-219														
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>															
<p>UNIT: SCALE - AS SHOWN</p>		<p>Size: A1 REV. 0</p>													

REV.	DATE	DESCRIPTION	DRN	CHD	APD	VAP	AM	SP
0	25/09/17							

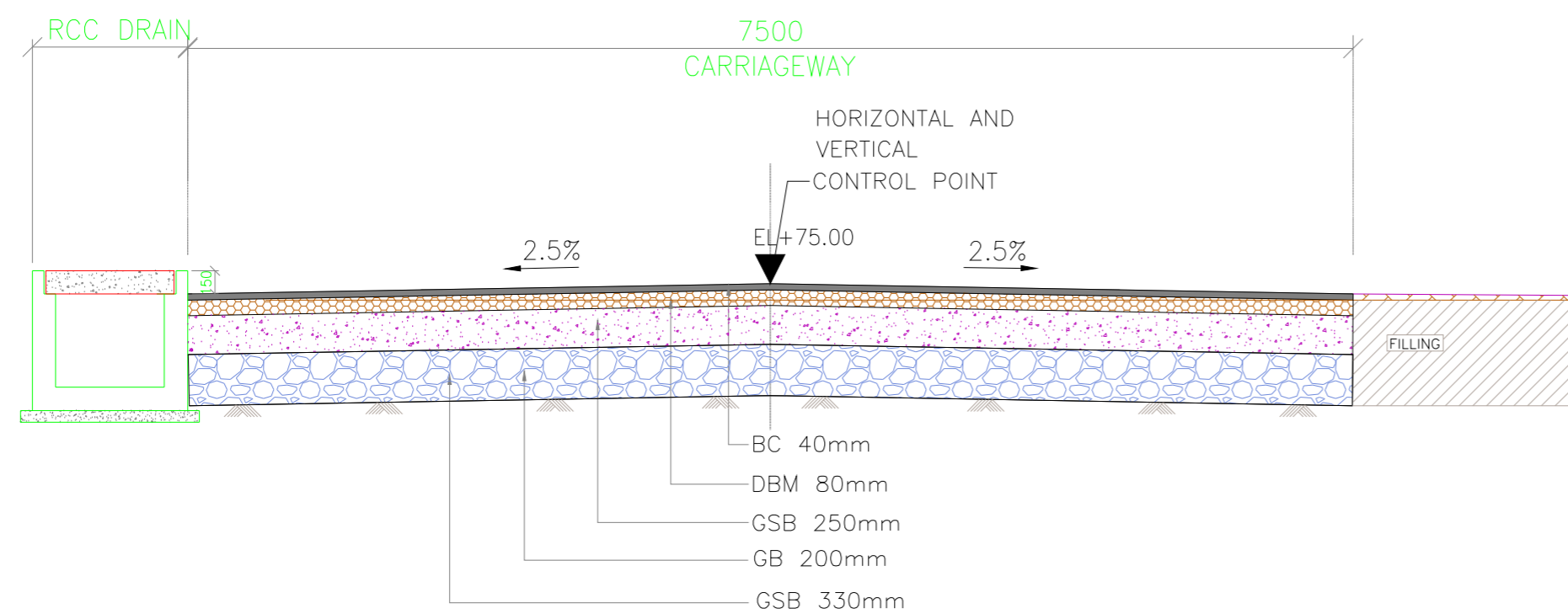
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TYP. CROSS SECTION OF 4 LANE WIDE PROPOSED ROAD



TYP. CROSS SECTION OF 12.0M WIDE PROPOSED ROAD

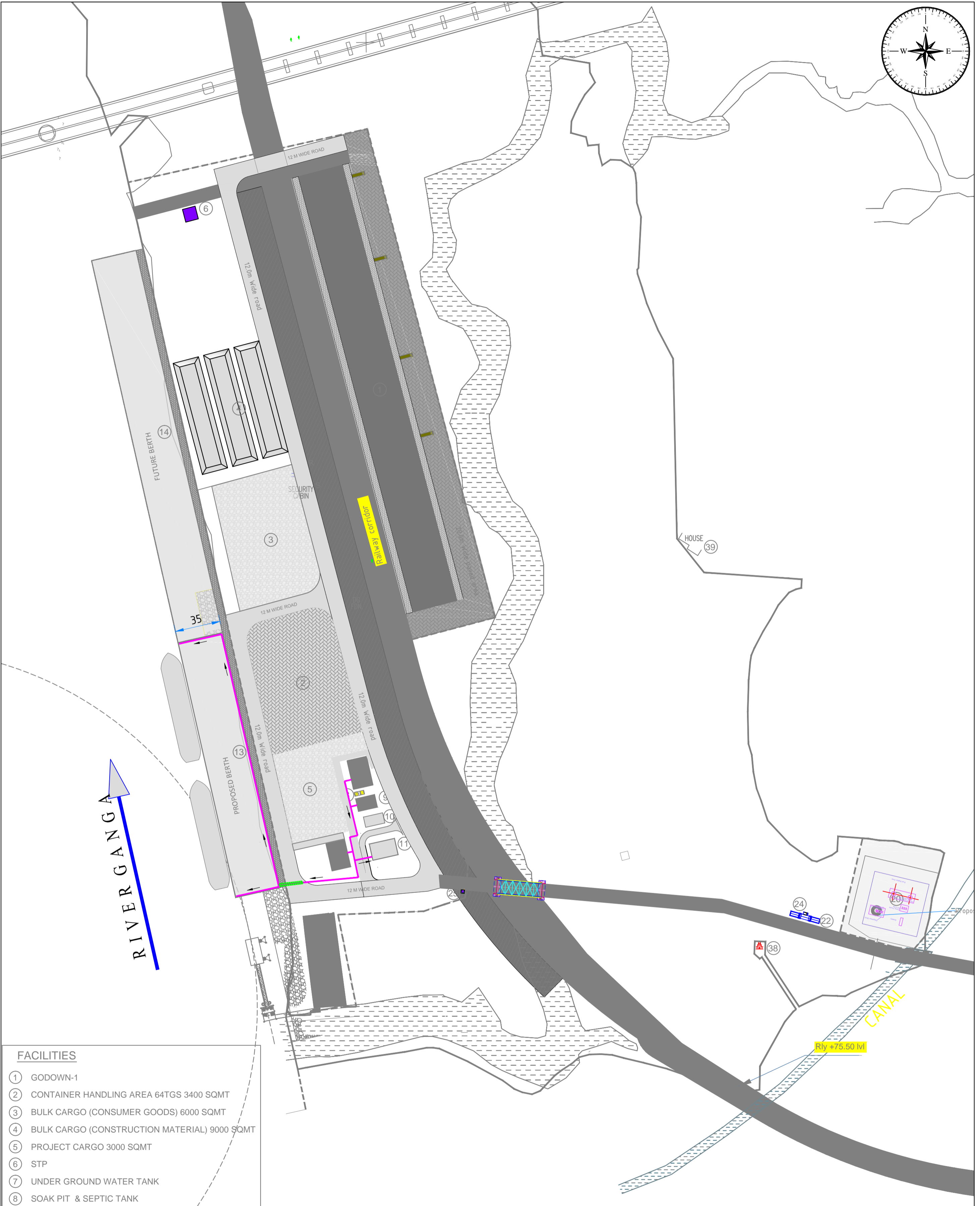
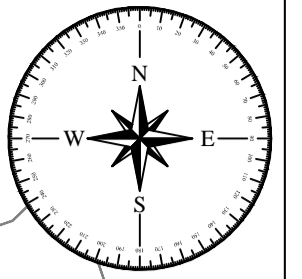


TYP. CROSS SECTION OF 7.50 M WIDE PROPOSED ROAD

NOTES

1. ALL DIMENSIONS ARE IN MM.
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>																									
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>																									
<p>CONSULTANT: PMC PROJECTS INDIA PRIVATE LIMITED From vision to reality...</p>																									
<p>TITLE: IWT TERMINAL AT VARANASI TYPICAL CROSS SECTIONS OF ROAD</p>																									
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>																									
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRN</th> <th>C.HD</th> <th>APD</th> </tr> <tr> <td>0</td> <td>25/09/17</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	REV	DATE	DESCRIPTION	DRN	C.HD	APD	0	25/09/17					<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>C.HD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </table>	NAME	SIGN	DATE	DRN	VAP	25/09/17	C.HD	AM	25/09/17	APD	SP	25/09/17
REV	DATE	DESCRIPTION	DRN	C.HD	APD																				
0	25/09/17																								
NAME	SIGN	DATE																							
DRN	VAP	25/09/17																							
C.HD	AM	25/09/17																							
APD	SP	25/09/17																							
<p>JOB. NO. I-525 DRG. NO. VTR-220</p>																									



FACILITIES

- ① GODOWN-1
- ② CONTAINER HANDLING AREA 64TGS 3400 SQMT
- ③ BULK CARGO (CONSUMER GOODS) 6000 SQMT
- ④ BULK CARGO (CONSTRUCTION MATERIAL) 9000 SQMT
- ⑤ PROJECT CARGO 3000 SQMT
- ⑥ STP
- ⑦ UNDER GROUND WATER TANK
- ⑧ SOAK PIT & SEPTIC TANK
- ⑨ WORKERS AMENITY
- ⑩ PUMP ROOM
- ⑪ SUB-STATION
- ⑫ ADMINISTRATION BUILDING
- ⑬ PROPOSED BERTH
- ⑭ FUTURE BERTH
- ⑯ PROPOSED FUELSTATION
- ⑰ EXISTING BUILDING
- ⑱ EXISTING PUBLIC TEMPLE
- ⑳ EXISTING HOUSE

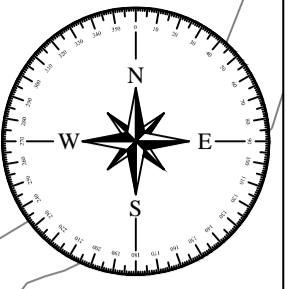
LEGEND

- POTABLE WATER PIPE
- HUME PIPE

REV	DATE	DESCRIPTION	DRN	CHD	APD

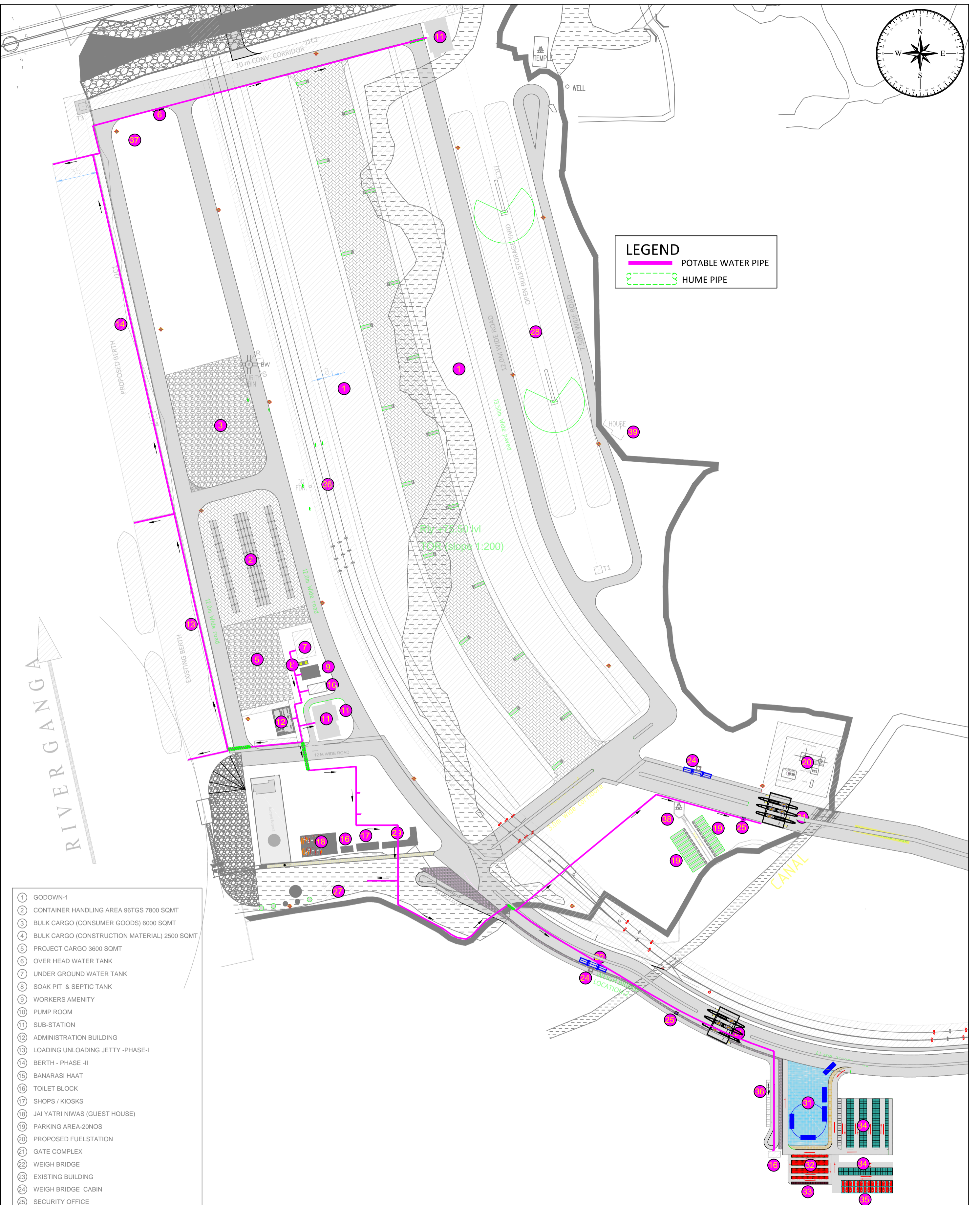
INLAND WATERWAYS AUTHORITY OF INDIA															
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT: HOWE		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>NAME</td> <td>SIGN</td> <td>DATE</td> </tr> <tr> <td>J.A.P.</td> <td></td> <td>25/09/17</td> </tr> <tr> <td>AV</td> <td></td> <td>25/09/17</td> </tr> <tr> <td>SP</td> <td></td> <td>25/09/17</td> </tr> </table>		NAME	SIGN	DATE	J.A.P.		25/09/17	AV		25/09/17	SP		25/09/17
NAME	SIGN	DATE													
J.A.P.		25/09/17													
AV		25/09/17													
SP		25/09/17													
TITLE: IWT TERMINAL AT VARANASI LAYOUT OF WATER SUPPLY SYSTEM IN PHASE-1B		JOB. NO.: I-525	DRG. NO.: VTR-221												
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0												

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LEGEND

- POTABLE WATER PIPE
- HUME PIPE



- 1 GODOWN-1
- 2 CONTAINER HANDLING AREA 967GS 7800 SQMT
- 3 BULK CARGO (CONSUMER GOODS) 6000 SQMT
- 4 BULK CARGO (CONSTRUCTION MATERIAL) 2500 SQMT
- 5 PROJECT CARGO 3600 SQMT
- 6 OVER HEAD WATER TANK
- 7 UNDER GROUND WATER TANK
- 8 SOAK PIT & SEPTIC TANK
- 9 WORKERS AMENITY
- 10 PUMP ROOM
- 11 SUB-STATION
- 12 ADMINISTRATION BUILDING
- 13 LOADING UNLOADING JETTY -PHASE-I
- 14 BERTH - PHASE -II
- 15 BANARASI HAAT
- 16 TOILET BLOCK
- 17 SHOPS / KIOSKS
- 18 JAI YATRI NIWAS (GUEST HOUSE)
- 19 PARKING AREA-20NOS
- 20 PROPOSED FUELSTATION
- 21 GATE COMPLEX
- 22 WEIGH BRIDGE
- 23 EXISTING BUILDING
- 24 WEIGH BRIDGE CABIN
- 25 SECURITY OFFICE
- 26 RAILWAY YARD AREA
- 27 UTILITY AREA
- 28 CONSTRUCTION MATERIAL BULK 22835 SQMT
- 29 CANTEEN & TOILET
- 30 12NOS-E-RIKSHA STAND
- 31 2NOS-BUS PARKING
- 32 180NOS-SCOOTER PARKING
- 33 45NOS-CYCLE PARKING
- 34 240NOS-RIKSHA PARKING
- 35 28NOS-CAR PARKING
- 36 20NOS-E-RIKSHA STAND
- 37 ETP/UTILITY
- 38 EXISTING PUBLIC TEMPLE
- 39 EXISTING HOUSE

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/02/17				

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** | **PMC PROJECTS** (INDIA) PRIVATE LIMITED

DRN	VA	SIGN	DATE
CHD	AB		25/09/17
APD	SP		25/09/17

TITLE: **IWT TERMINAL AT VARANASI LAYOUT OF WATER SUPPLY SYSTEM IN MASTER PLAN**

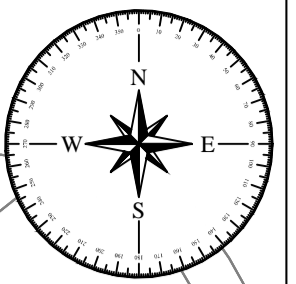
JOB. NO.: I-525 | DRG. NO.: VTR-222

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

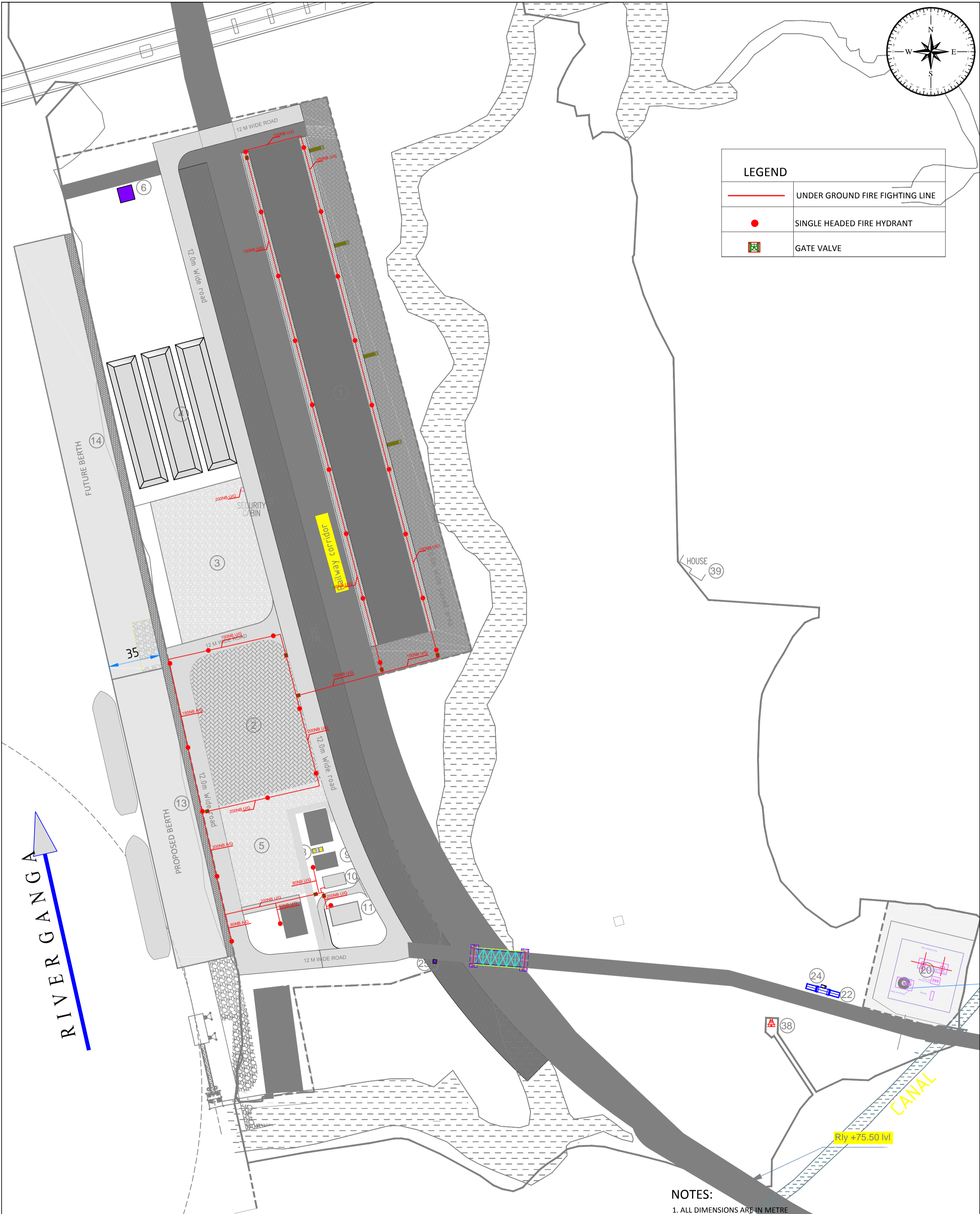
UNIT: SCALE - AS SHOWN | Size: A1 | REV. 0

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LEGEND	
	UNDER GROUND FIRE FIGHTING LINE
	SINGLE HEADED FIRE HYDRANT
	GATE VALVE



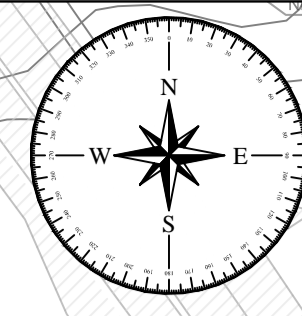
NOTES:

1. ALL DIMENSIONS ARE IN METRE

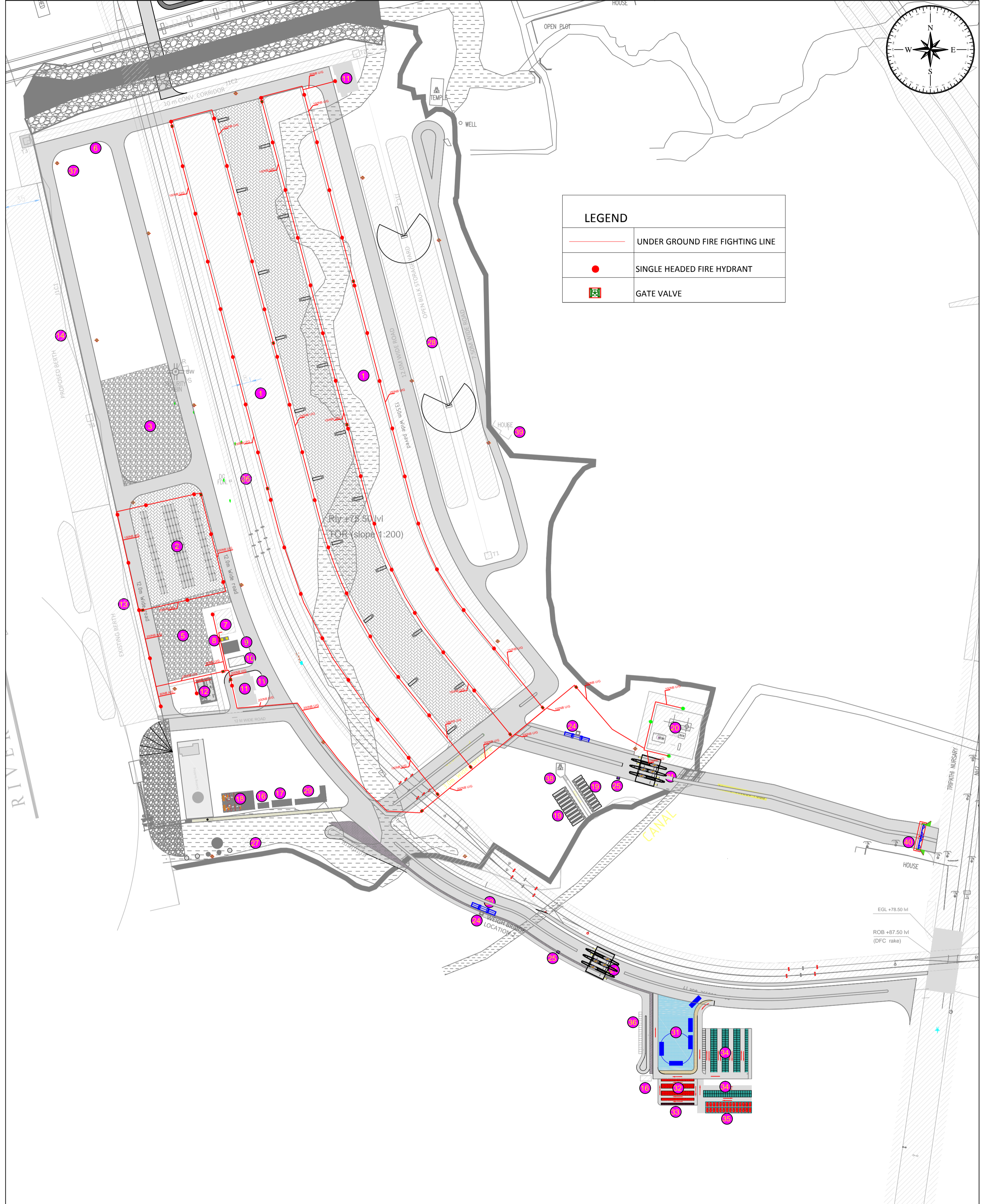
		INLAND WATERWAYS AUTHORITY OF INDIA													
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT		<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>VA</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AL</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </tbody> </table>		NAME	SIGN	DATE	DRN	VA	25/09/17	CHD	AL	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE													
DRN	VA	25/09/17													
CHD	AL	25/09/17													
APD	SP	25/09/17													
TITLE IWT TERMINAL AT VARANASI LAYOUT OF FIRE FIGHTING SYSTEM IN PHASE-1B		<table border="1"> <thead> <tr> <th>JOB. NO.</th> <th>DRG. NO.</th> </tr> </thead> <tbody> <tr> <td>I-525</td> <td>VTR-223</td> </tr> </tbody> </table>		JOB. NO.	DRG. NO.	I-525	VTR-223								
JOB. NO.	DRG. NO.														
I-525	VTR-223														
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
		<table border="1"> <thead> <tr> <th>UNIT</th> <th>SCALE - AS SHOWN</th> <th>Size</th> <th>REV.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>A1</td> <td>2</td> </tr> </tbody> </table>		UNIT	SCALE - AS SHOWN	Size	REV.			A1	2				
UNIT	SCALE - AS SHOWN	Size	REV.												
		A1	2												

REV	DATE	DESCRIPTION	DRN	CHD	APD
2	22/02/13		VA	AL	SP
1	20/02/13		VA	AL	SP
C	25/02/17		VA	AL	SP

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LEGEND	
	UNDER GROUND FIRE FIGHTING LINE
	SINGLE HEADED FIRE HYDRANT
	GATE VALVE

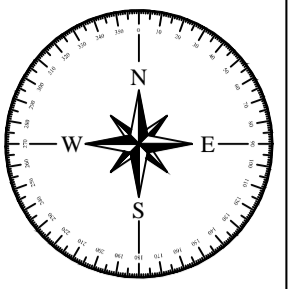


REV	DATE	DESCRIPTION	VSP	AW	S-P
0	25/09/17		DRN	CHD	APD

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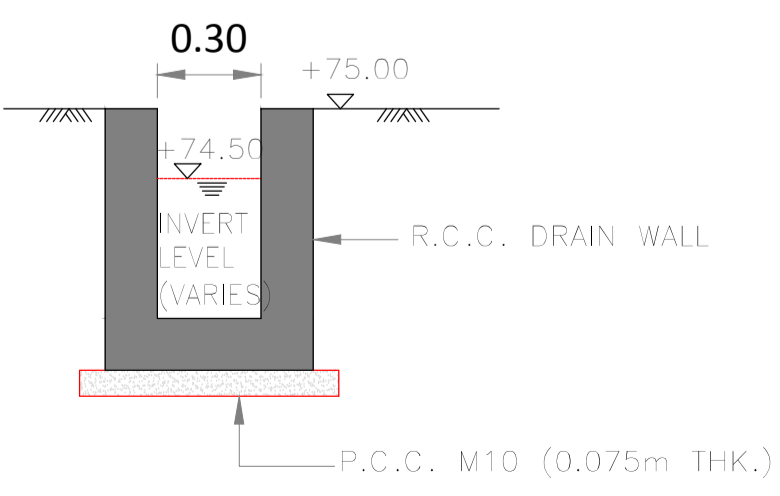
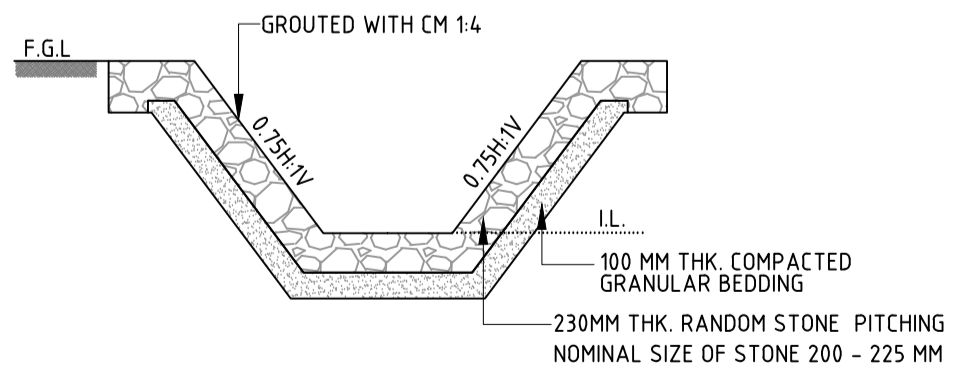
		INLAND WATERWAYS AUTHORITY OF INDIA	
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT		NAME DRN CHD APD	SIGN DATE 25/09/17 25/09/17 25/09/17
TITLE IWT TERMINAL AT VARANASI LAYOUT OF FIRE FIGHTING SYSTEM IN MASTER PLAN		JOB. NO. I-525	DRG. NO. VTR-224
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE			
	UNIT	SCALE - AS SHOWN	Size : A1
			REV. 0



RIVER GANGA

EXISTING NALLAH

- ⑧ SOAK PIT & SEPTIC TANK
- ⑨ WORKERS AMENITY
- ⑩ PUMP ROOM
- ⑪ SUB-STATION
- ⑬ LOADING UNLOADING JETTY -PHASE-I
- ⑯ TOILET BLOCK
- ⑳ PROPOSED FUELSTATION
- ㉓ EXISTING BUILDING
- ㉕ SECURITY OFFICE
- ㉘ EXISTING PUBLIC TEMPLE
- ㉙ EXISTING HOUSE



LEGEND

- OPEN DRAIN
- PIPE DRAIN

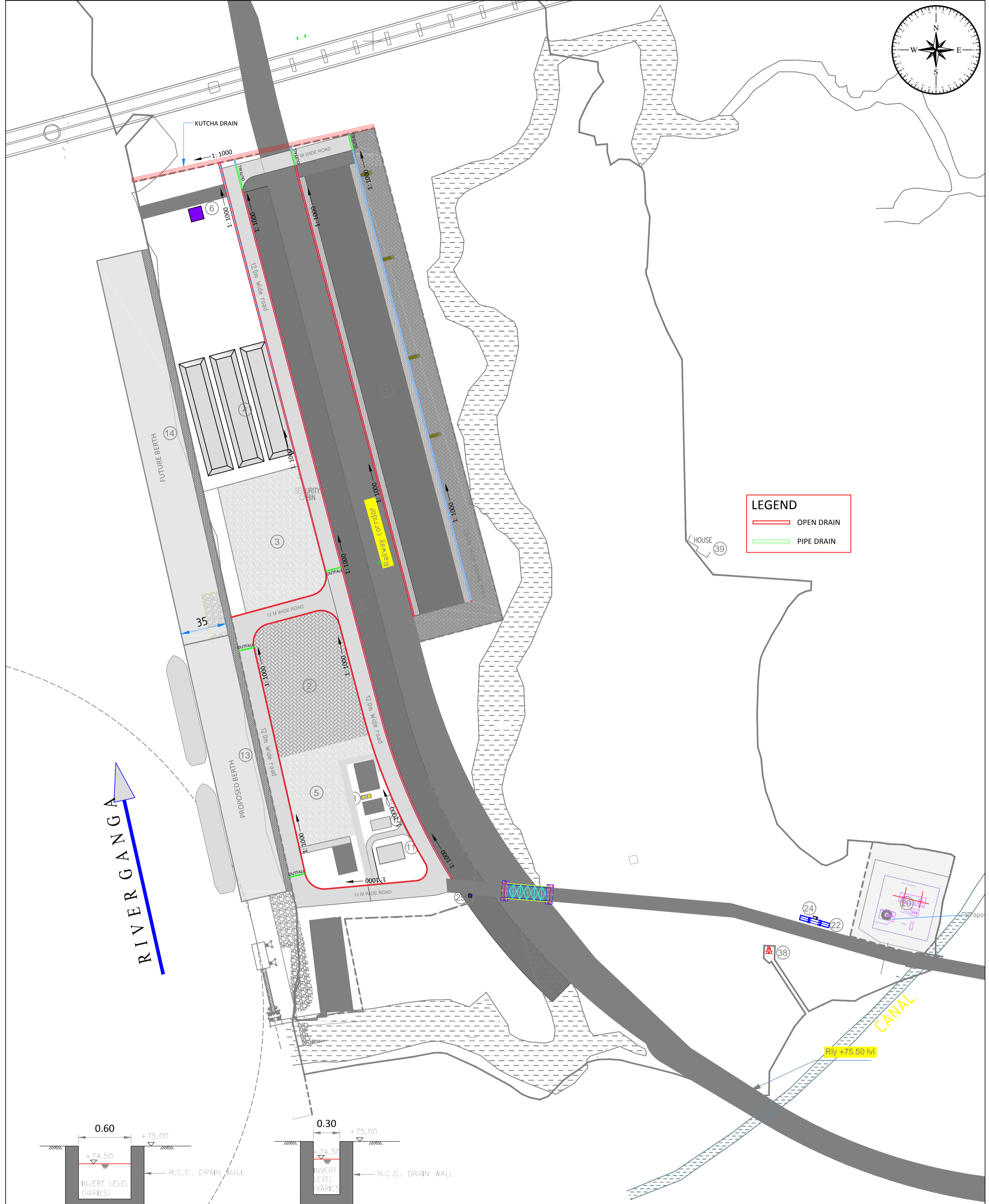
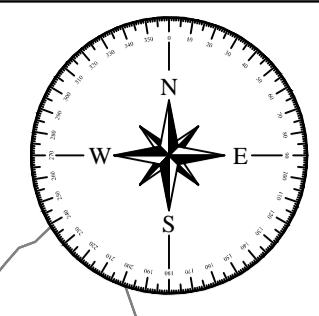
NOTES

1. ALL DIMENSIONS ARE IN METRE
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

		INLAND WATERWAYS AUTHORITY OF INDIA	
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT:		NAME: VA SIGN: AL DATE: 25/09/17	
TITLE: IWT TERMINAL AT VARANASI LAYOUT OF STORM WATER SYSTEM IN PHASE-1A		JOB. NO.: I-525 DRG. NO.: VTR-225	
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE			
UNIT:	SCALE: AS SHOWN	Size: A1	REV: 0

REV	DATE	DESCRIPTION	DRN	CHD	APD
C	25.09.17				

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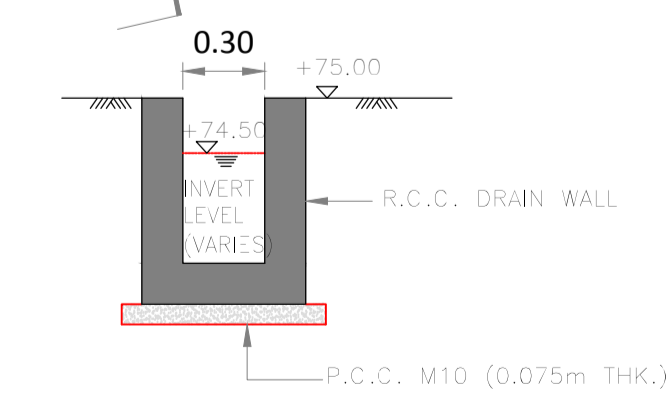
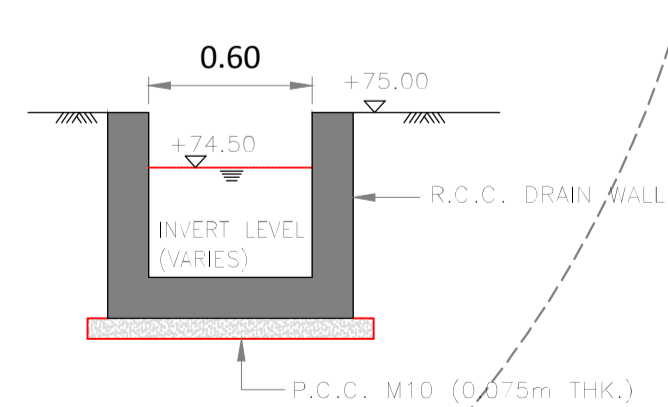
LEGEND

- OPEN DRAIN
- PIPE DRAIN

RIVER GANGA

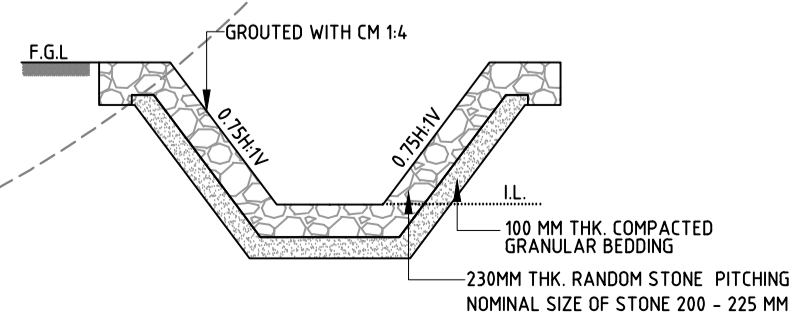
CANAL

Rly +75.50 Ml



TYPICAL DETAIL OF DRAIN

TYPICAL DETAIL OF DRAIN



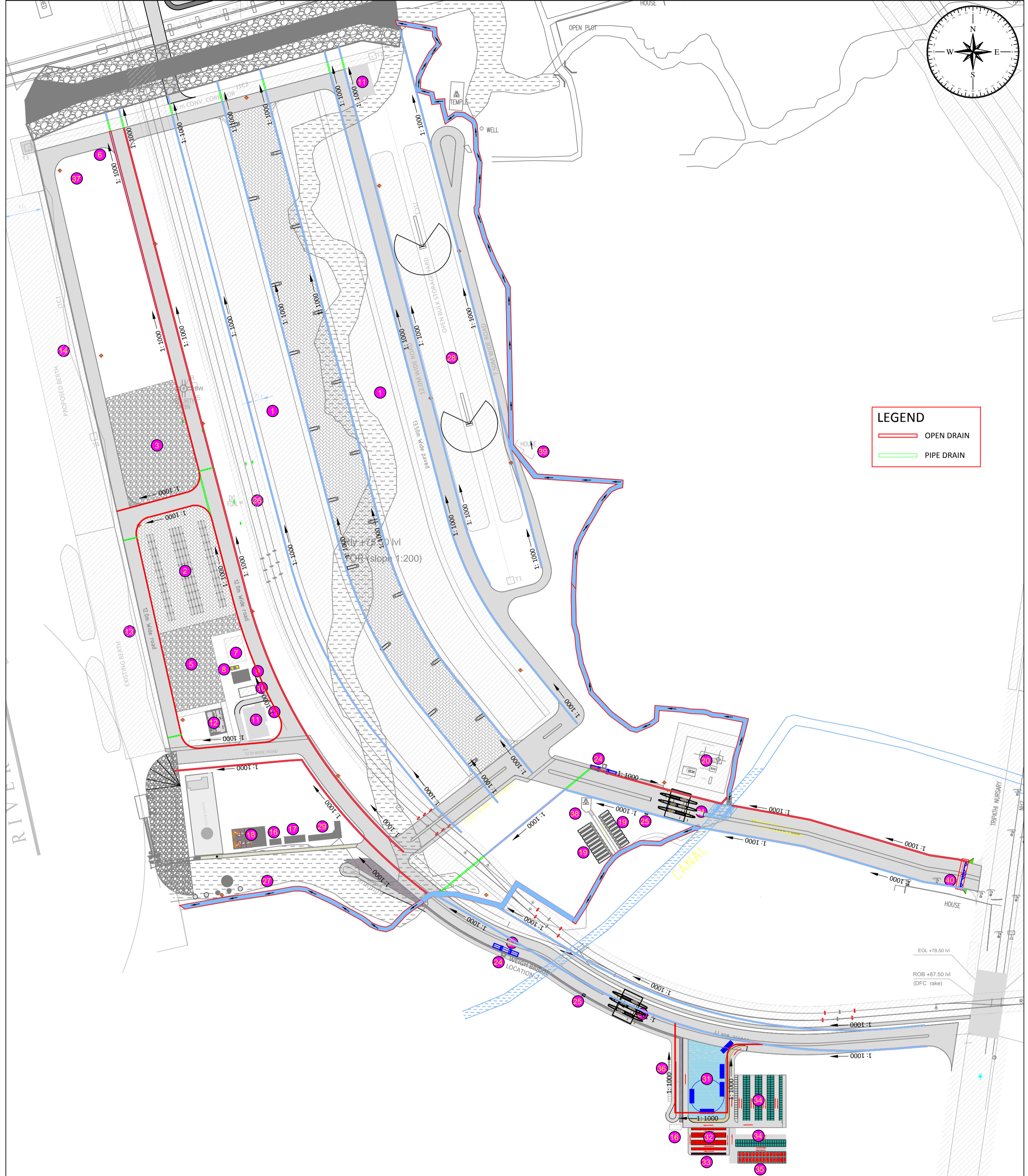
PITCHING DRAIN CROSS SECTION
NOTE:- FOR INVERT LEVEL REF. LAYOUT DRAWING

NOTES

1. ALL DIMENSIONS ARE IN METRE
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

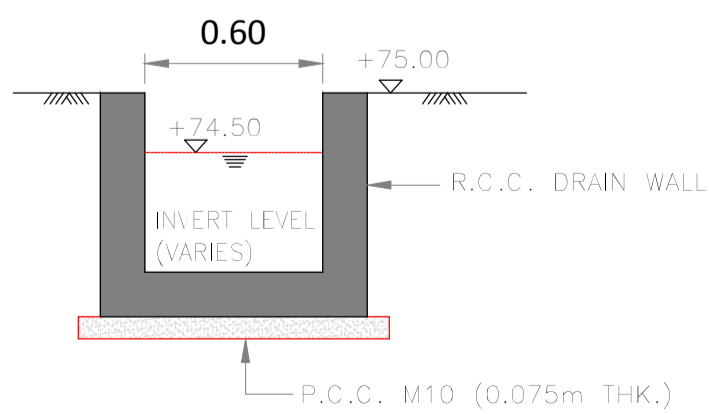
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0	25/09/17				

INLAND WATERWAYS AUTHORITY OF INDIA			
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT: HOWE		NAME: VSP	SIGN: [Signature]
		DATE: 25/09/17	
		CHD: AM	DATE: 25/09/17
		APD: SP	DATE: 25/09/17
TITLE: IWT TERMINAL AT VARANASI LAYOUT OF STORM WATER SYSTEM IN PHASE-1B		JOB. NO.: I-525	DRG. NO.: VTR-226
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE			
UNIT: [Symbol]		SCALE: - AS SHOWN	Size: A1
THIS DESIGN OR DRAWING IS THE PROPERTY OF HOWE		IT IS SUBJECT TO THEIR RECALL AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.	REV. 0

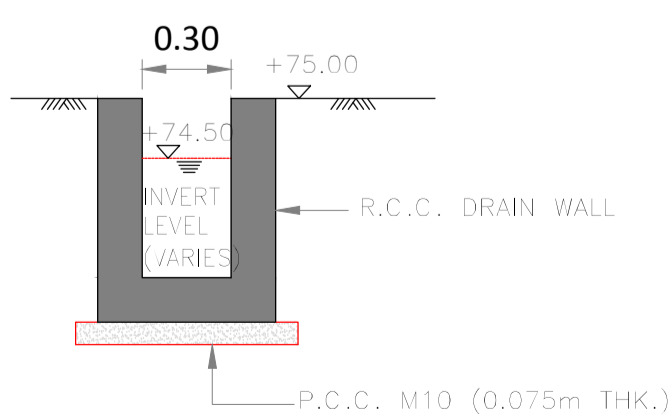


LEGEND

- OPEN DRAIN
- PIPE DRAIN



TYPICAL DETAIL OF DRAIN



TYPICAL DETAIL OF DRAIN

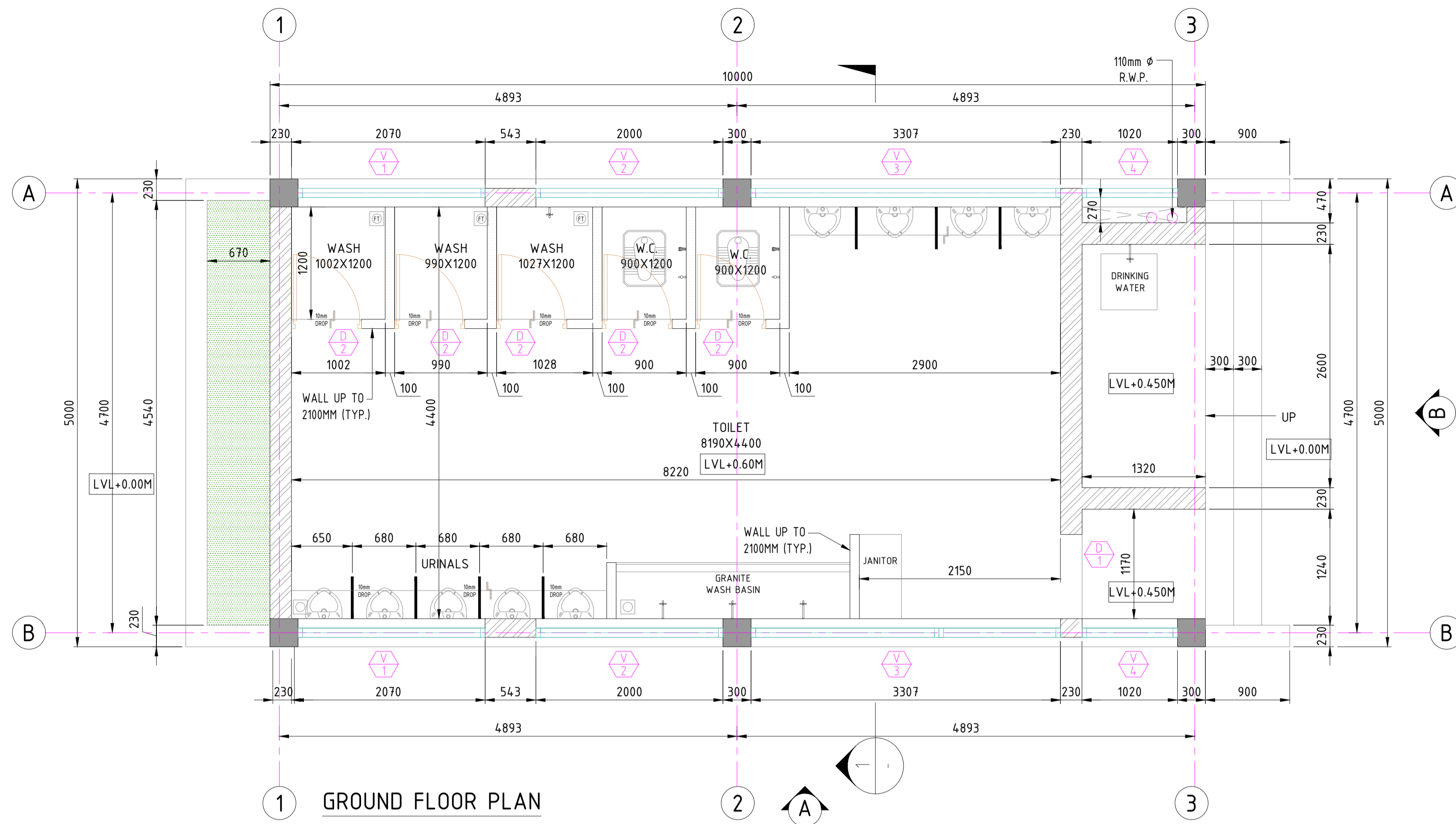
NOTES:

1. ALL DIMENSIONS ARE IN METRE

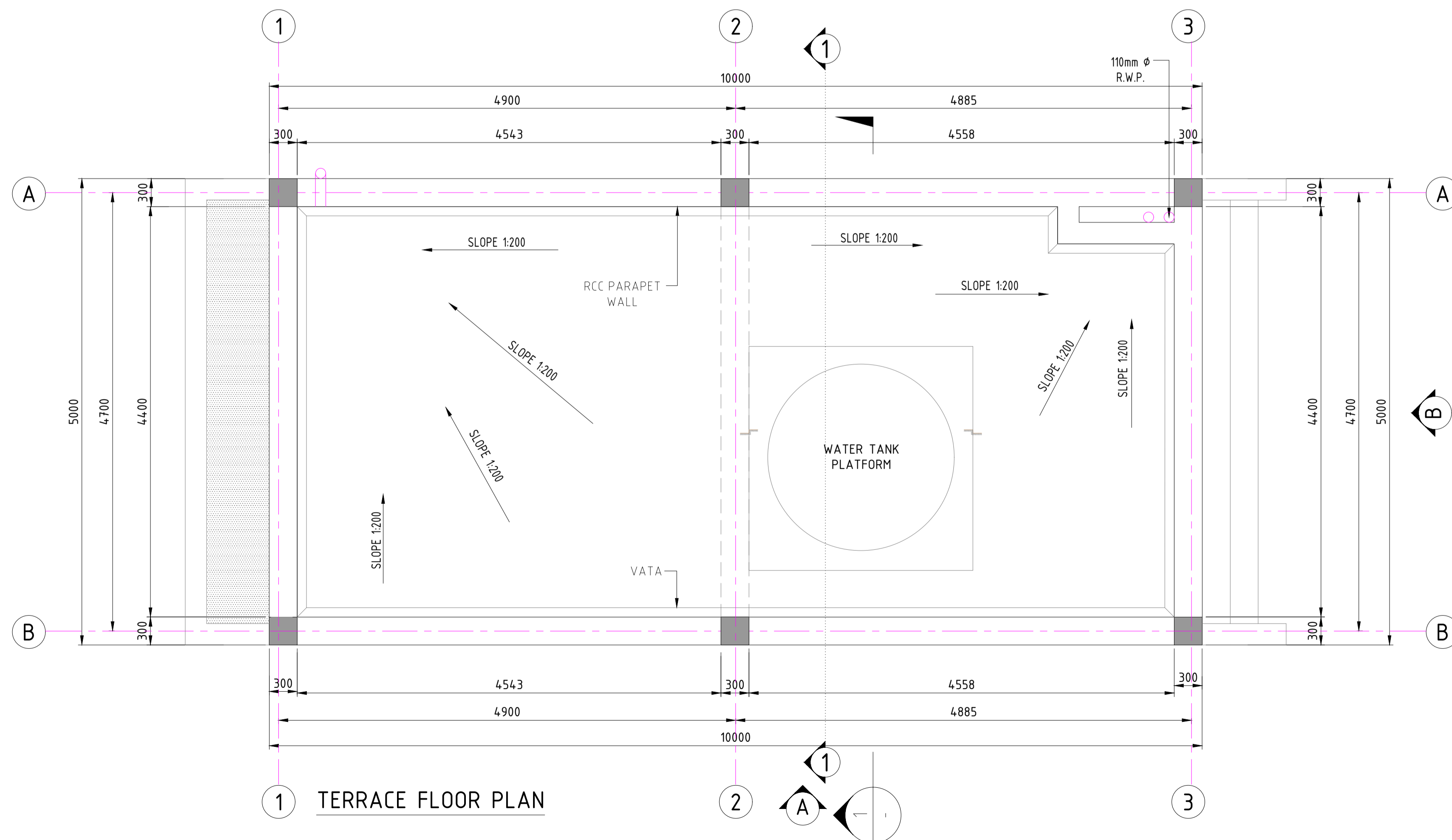
<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>		PROJECT	
		DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)	
<p>HOWE</p>		CONSULTANT	NAME
		DRN	SIGN
		CHD	DATE
TITLE		JOB. NO.	DRG. NO.
IWT TERMINAL AT VARANASI LAYOUT OF STORM WATER SYSTEM IN MASTER PLAN		I-525	VTR-227
COORDINATE SYSTEM USED:			
ENTER CO-ORD SYSTEM HERE			
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0

REV	DATE	DESCRIPTION	VSP	AW	S.P.
0	25/09/17				

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1 GROUND FLOOR PLAN



1 TERRACE FLOOR PLAN

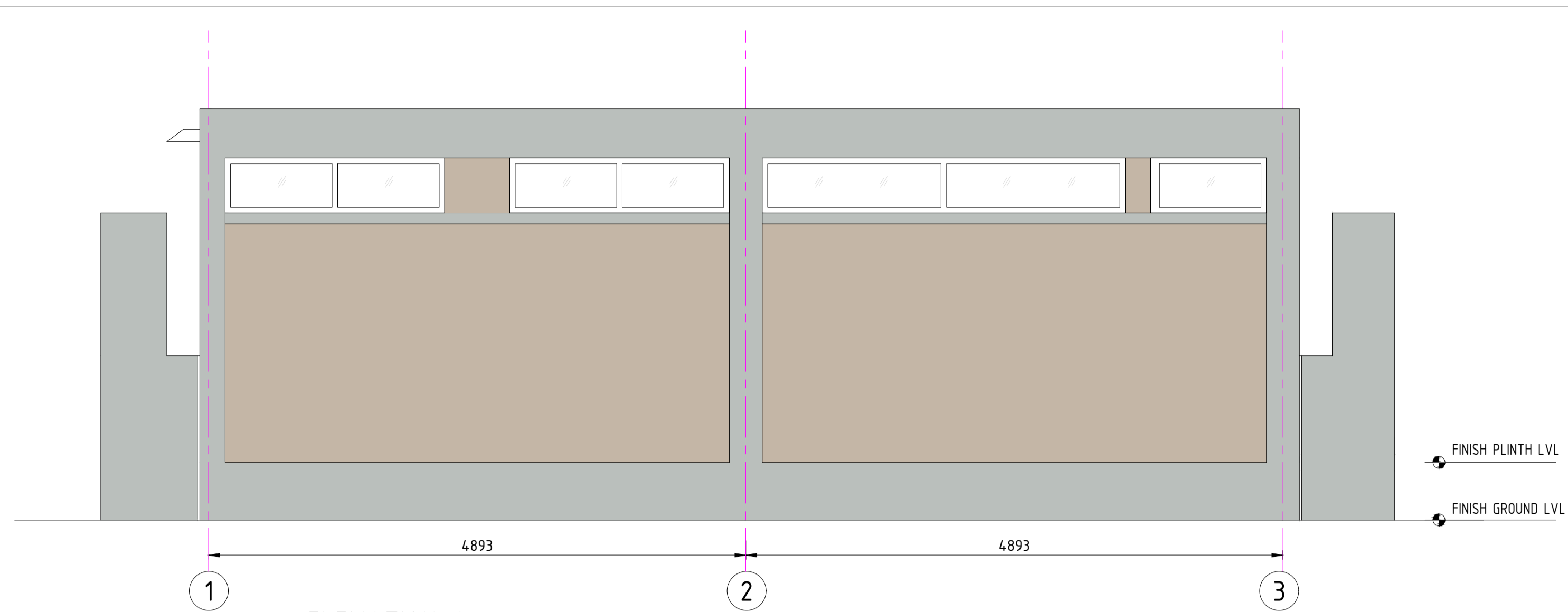
DOOR WINDOW OPENING SCHEDULE

NO.	SIZE	SILL	LINTEL	NOS.	REMARK
DOOR					
D1	900X2100	-	2100	01	
D2	750X2100	-	2100	05	
WINDOW *					
V/1	2000X500	2200	2700	02	
V/2	2000X500	2200	2700	02	
V/3	3300X500	2200	2700	02	
V/4	1020X500	2200	2700	02	

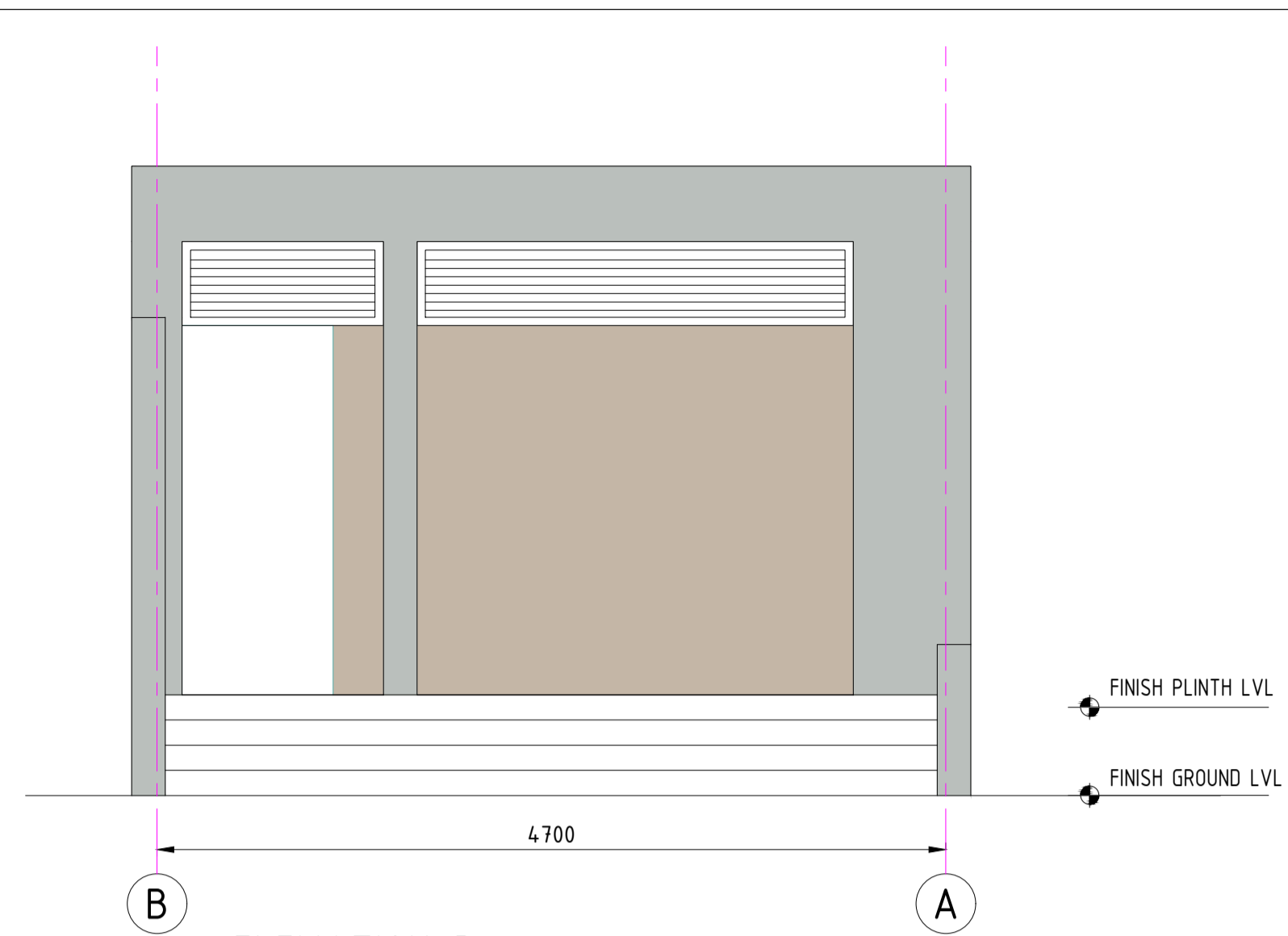
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

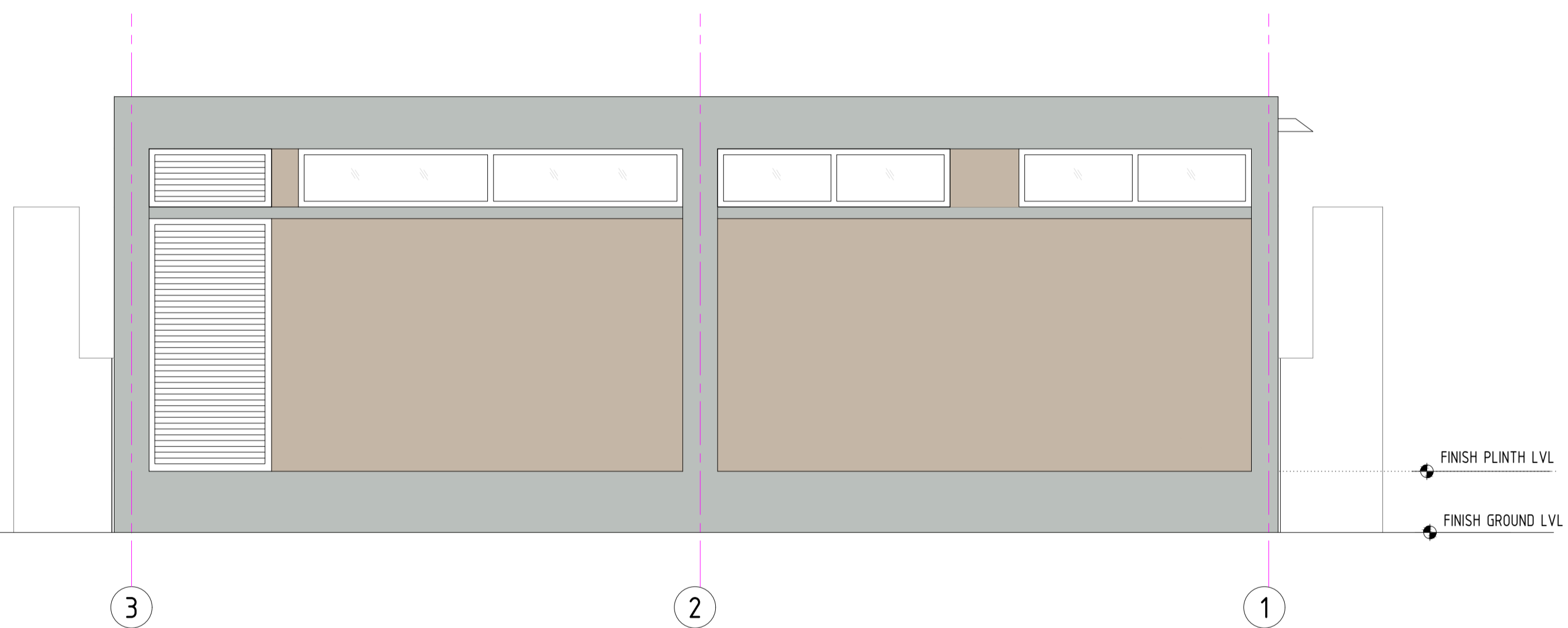
<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>		PROJECT		
		<p>DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>		
<p>PMC PROJECTS INDIA PRIVATE LIMITED From vision to reality...</p>		CONSULTANT		
		<p>HOWE</p>		
<p>TITLE</p> <p>IWT TERMINAL AT VARANASI LAYOUT OF TOILET BLOCK</p>		NAME	SIGN	DATE
		DRN	VAP	25/09/17
<p>COORDINATE SYSTEM USED:</p> <p>ENTER CO-ORD SYSTEM HERE</p>		CHD	AM	25/09/17
		APD	SP	25/09/17
<p>JOB. NO. I-525</p> <p>ORG. NO. VTR-228</p> <p>SHEET 1 OF 2</p>				
<p>REV. DATE DESCRIPTION</p> <p>0 25/09/17</p>		VAP	AM	SP
		DRN	CHD	APD
<p>THIS DESIGN OR DRAWING IS THE PROPERTY OF</p> <p>PMC PROJECTS INDIA PRIVATE LIMITED</p>		<p>IT IS SUBJECT TO THEIR RECALL AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</p>		
<p>HOWE</p>		UNIT	SCALE - AS SHOWN	Size : A1
				REV. 0



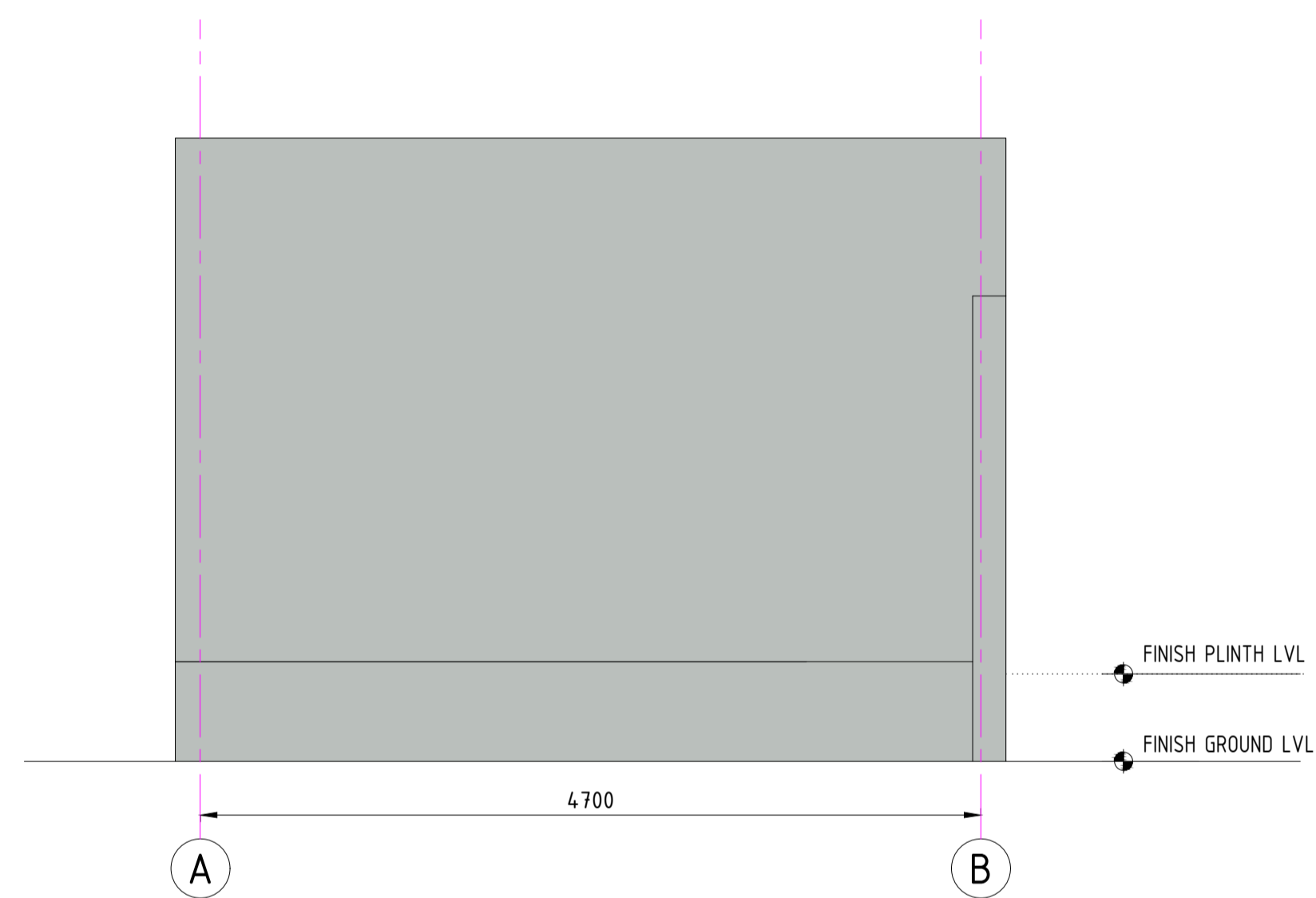
ELEVATION-A



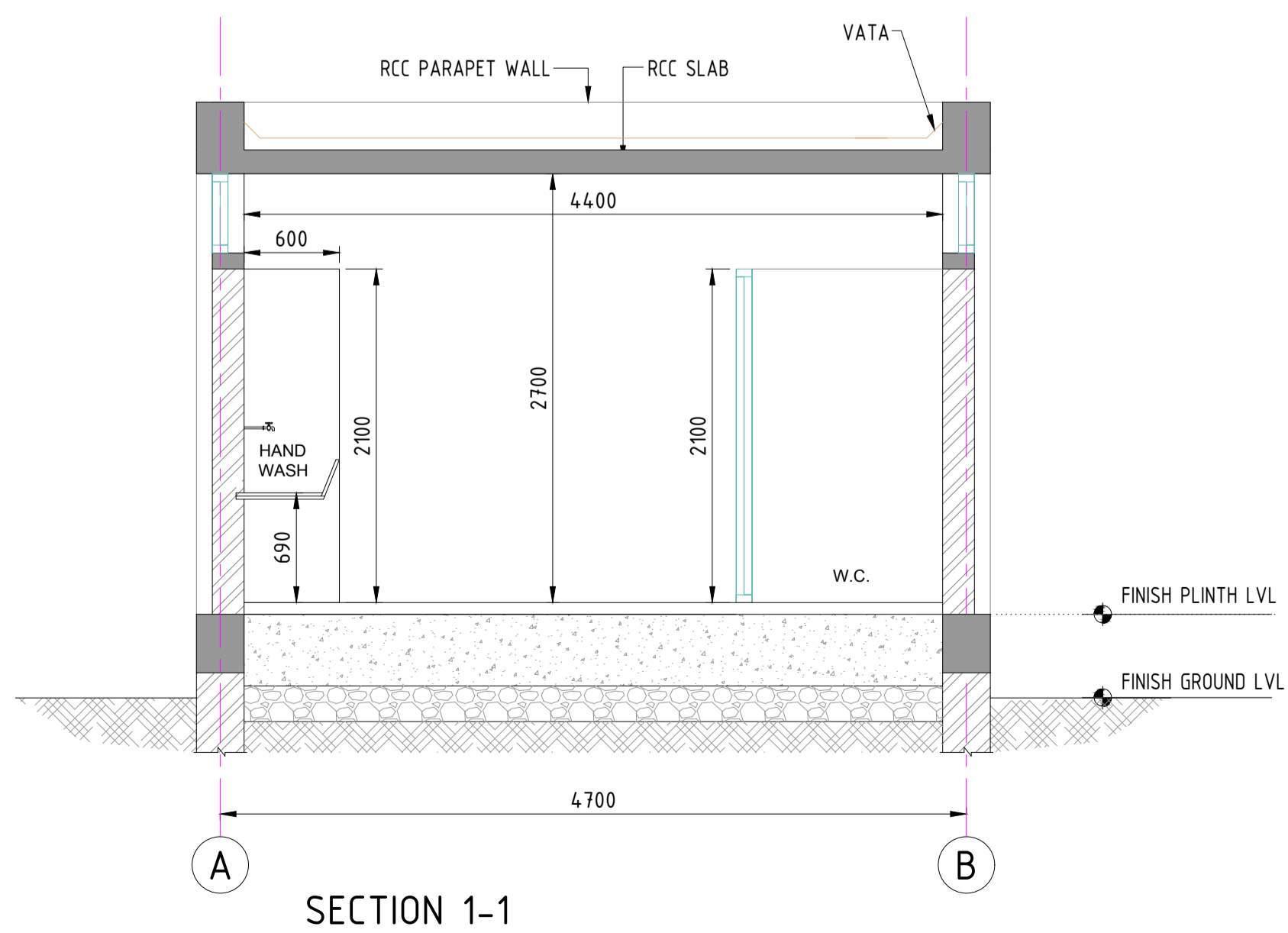
ELEVATION-B



ELEVATION-C



ELEVATION-D

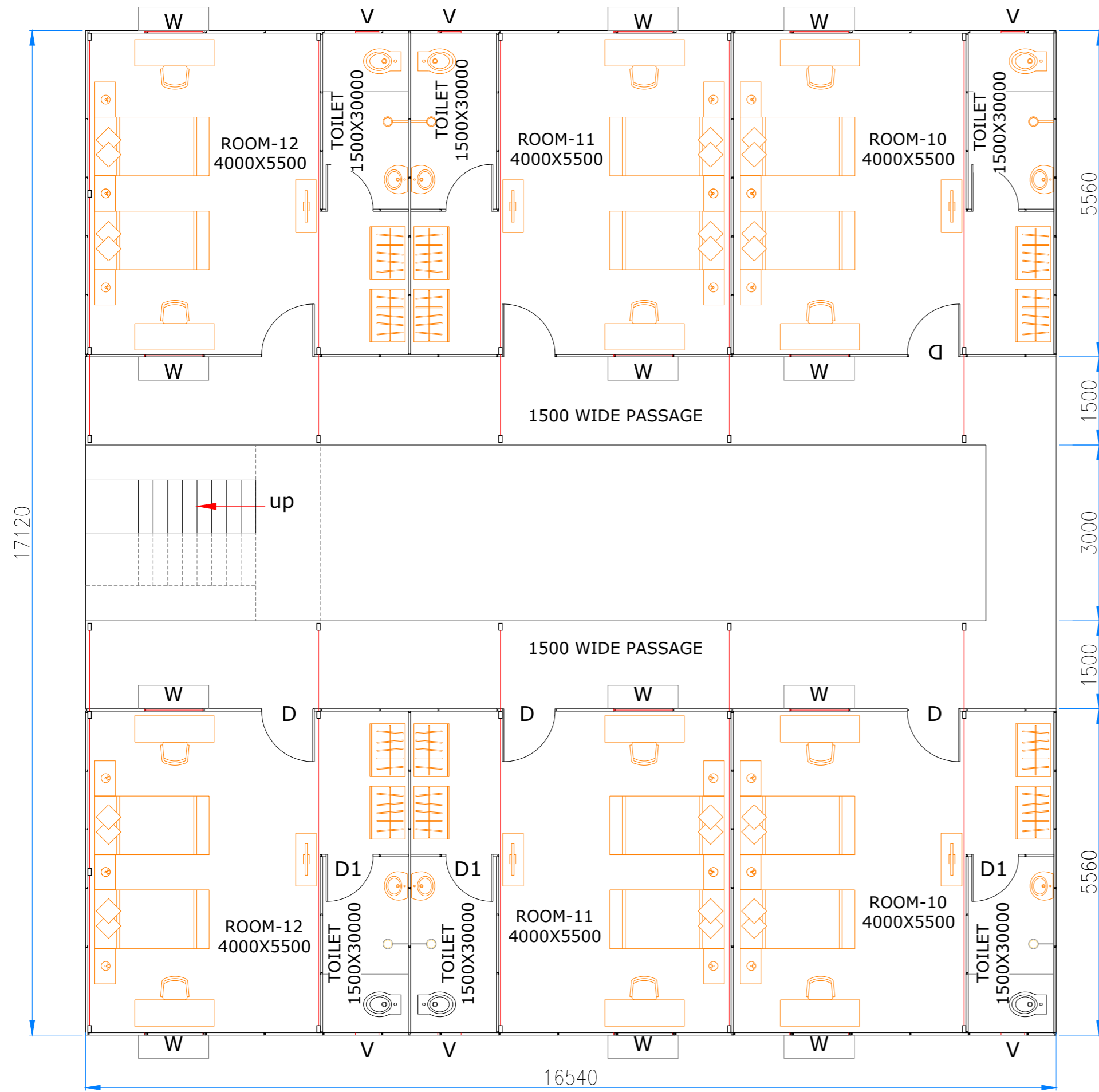


SECTION 1-1

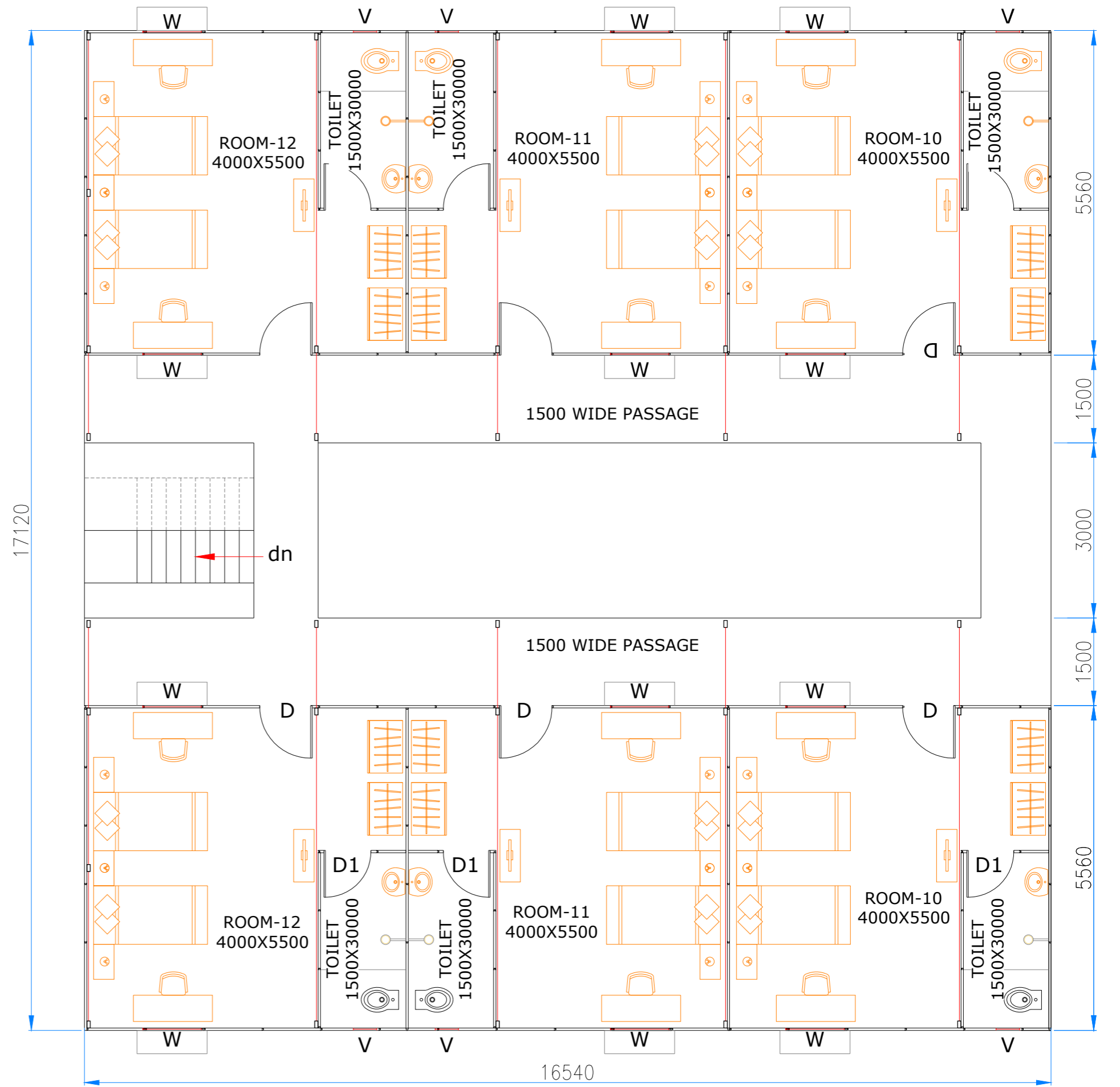
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE
2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL

		INLAND WATERWAYS AUTHORITY OF INDIA		
		PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)		
		CONSULTANT: HOWE		
		TITLE: IWT TERMINAL AT VARANASI ELEVATION OF TOILET BLOCK		
REV. DATE DESCRIPTION VAP DRN CHD AM SP APD		NAME SIGN DATE DRN VAP 25/09/17 CHD AM 25/09/17 APD SP 25/09/17		
JOB. NO. DRG. NO. I-525 VTR-228		SHEET 2 OF 2		
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE				
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		UNIT	SCALE - AS SHOWN	Size : A1
				REV. 0



GROUND FLOOR PLAN



FIRST FLOOR PLAN

NOTE :-
1. ALL DIMENSIONS ARE IN MM.

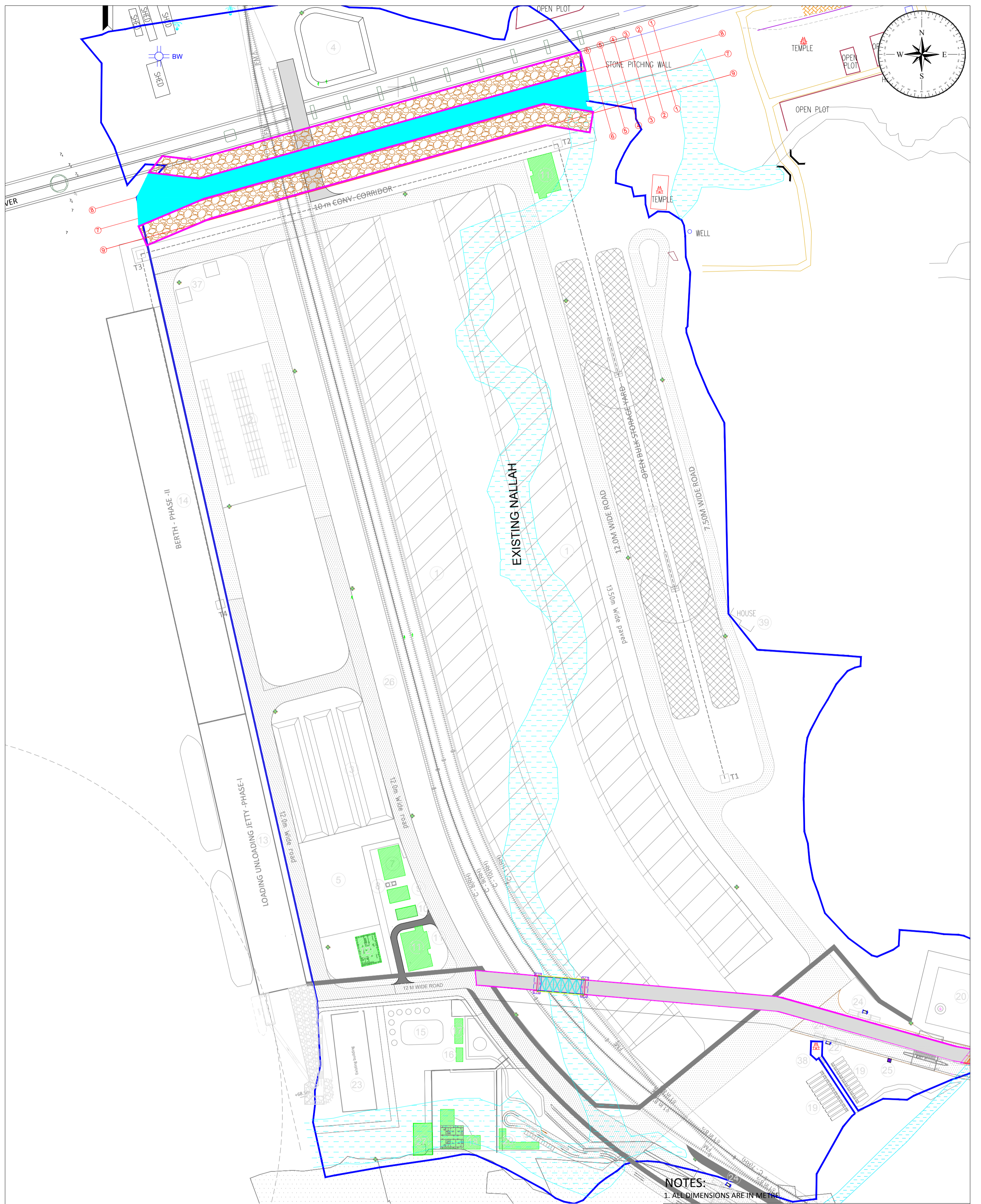
<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>														
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>														
<p>CONSULTANT: HOWE</p>		<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </table>	NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE												
DRN	VAP	25/09/17												
CHD	AM	25/09/17												
APD	SP	25/09/17												
<p>TITLE: IWT TERMINAL AT VARANASI LAYOUT OF JAI YATRI NIWAS (GUEST HOUSE)</p>		<p>JOB. NO. I-525 DRG. NO. VTR-229</p>												

REV	DATE	DESCRIPTION	VAP	AM	SP
			DRN	CHD	APD
0	25/09/17				





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COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

	UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
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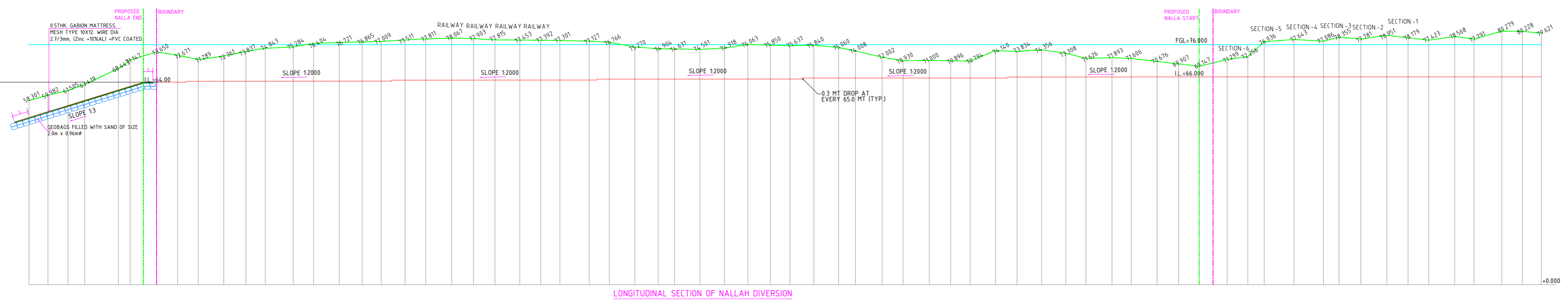
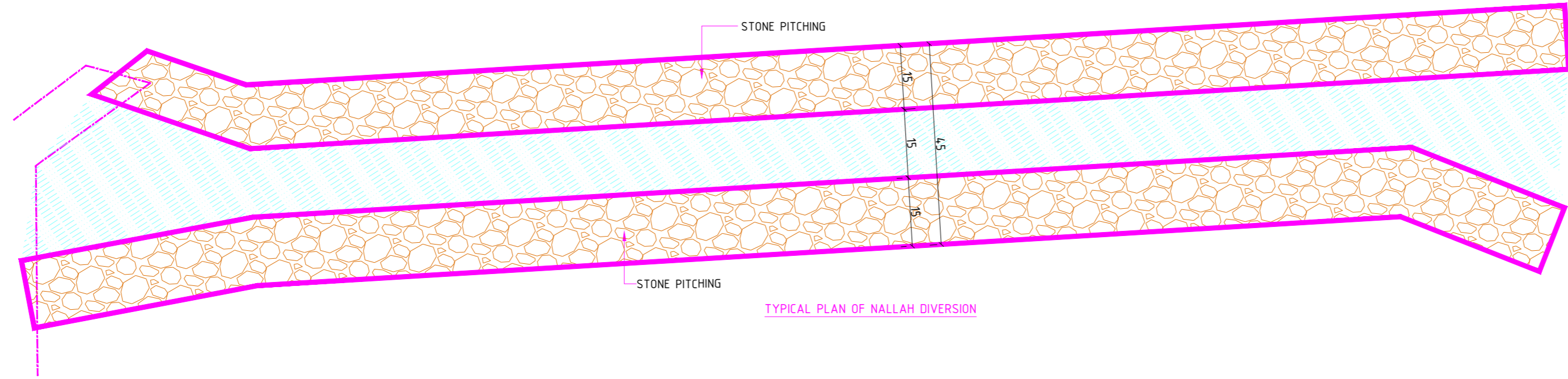


NOTES:
1. ALL DIMENSIONS ARE IN METRE

 INLAND WATERWAYS AUTHORITY OF INDIA				
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)				
CONSULTANT   HOWE		NAME DRN VAP CHD AM APD SP	SIGN 	DATE 25/09/17 25/09/17 25/09/17
TITLE IWT TERMINAL AT VARANASI LAYOUT OF NALLAH DIVERSION		JOB. NO. I-525	DRG. NO. VTR-230	SHEET 1 OF 2
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE				
		UNIT SCALE - AS SHOWN	Size A1	REV. 0

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				

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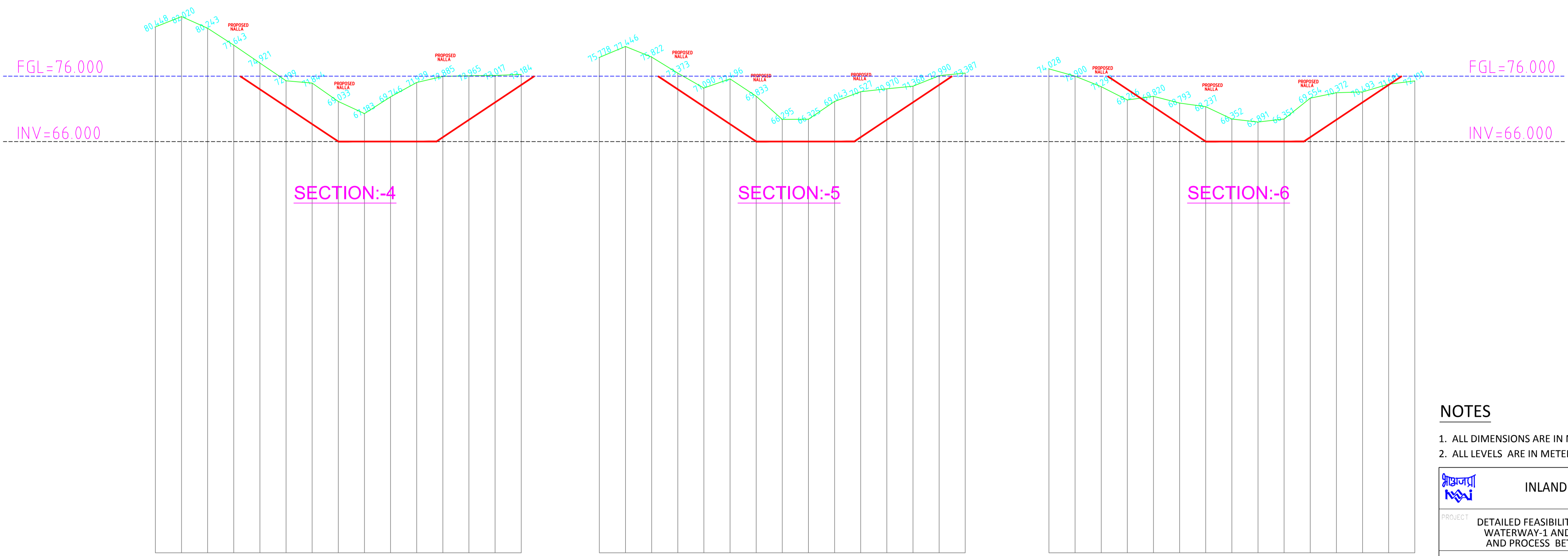
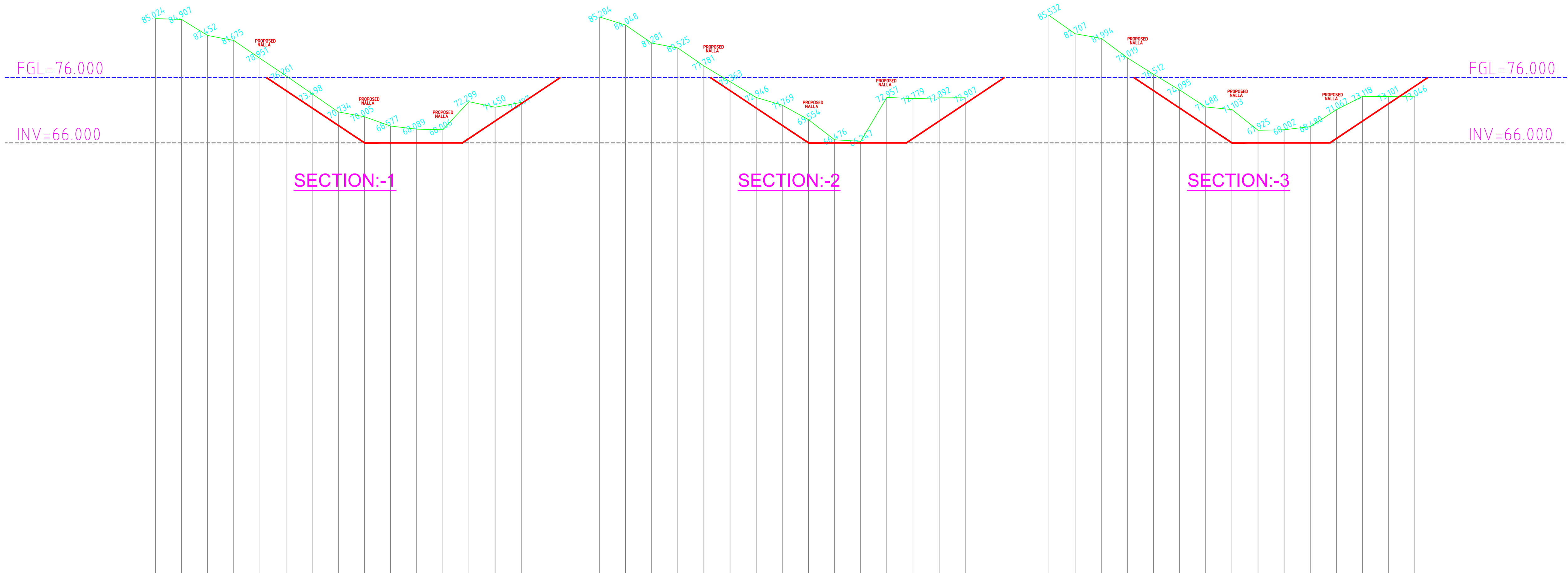
NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS
- 2. ALL LEVELS ARE IN METERS & ARE WITH RESPECT TO MSL

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>													
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>													
<p>CONSULTANT:</p>	<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>VAP</td> <td>25/09/17</td> </tr> <tr> <td>CHD</td> <td>AM</td> <td>25/09/17</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>25/09/17</td> </tr> </table>	NAME	SIGN	DATE	DRN	VAP	25/09/17	CHD	AM	25/09/17	APD	SP	25/09/17
NAME	SIGN	DATE											
DRN	VAP	25/09/17											
CHD	AM	25/09/17											
APD	SP	25/09/17											
<p>TITLE: IWT TERMINAL AT VARANASI LONGITUDINAL SECTION OF NALLAH DIVERSION</p>													
<p>JOB. NO. I-525</p>	<p>DRG. NO. VTR-230 SHEET 2 OF 3</p>												
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>													
<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRN</th> <th>CHD</th> <th>APD</th> </tr> <tr> <td>0</td> <td>25/09/17</td> <td></td> <td>VAP</td> <td>AM</td> <td>SP</td> </tr> </table>	REV.	DATE	DESCRIPTION	DRN	CHD	APD	0	25/09/17		VAP	AM	SP	<p>UNIT: SCALE - AS SHOWN Size: A1 REV. 0</p>
REV.	DATE	DESCRIPTION	DRN	CHD	APD								
0	25/09/17		VAP	AM	SP								

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NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS
- 2. ALL LEVELS ARE IN METERS & ARE WITH RESPECT TO MSL

		INLAND WATERWAYS AUTHORITY OF INDIA													
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT:		<table border="1"> <tr><th>NAME</th><th>SIGN</th><th>DATE</th></tr> <tr><td>VAP</td><td></td><td>25/09/17</td></tr> <tr><td>AM</td><td></td><td>25/09/17</td></tr> <tr><td>SP</td><td></td><td>25/09/17</td></tr> </table>		NAME	SIGN	DATE	VAP		25/09/17	AM		25/09/17	SP		25/09/17
NAME	SIGN	DATE													
VAP		25/09/17													
AM		25/09/17													
SP		25/09/17													
TITLE: IWT TERMINAL AT VARANASI CROSS SECTION OF NALLAH DIVERSION		JOB. NO. I-525	DRG. NO. VTR-230 SHEET 3 OF 3												

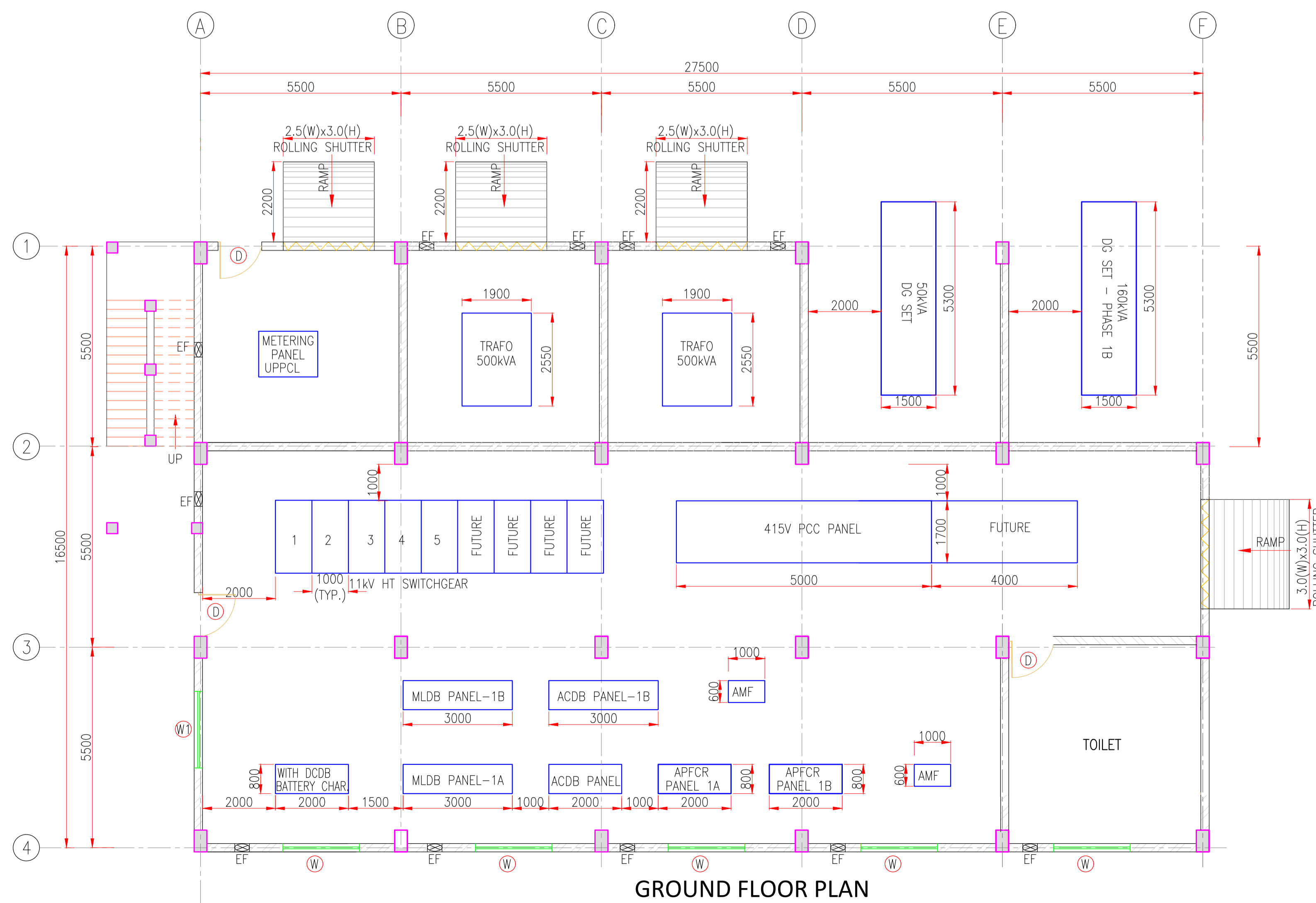
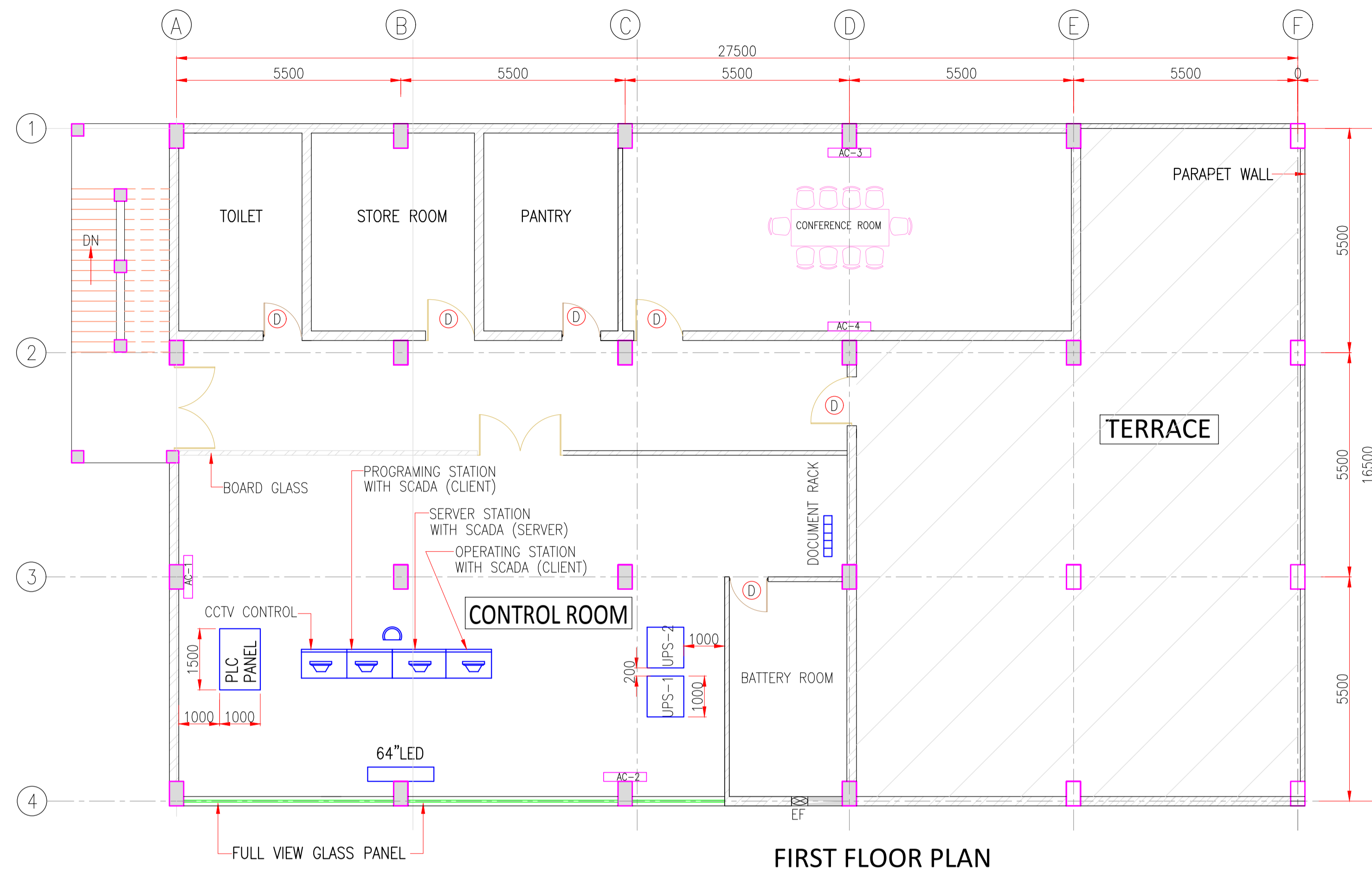
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0	25/09/17		VAP	AM	SP

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COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
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LEGEND :-

- ⊕ WINDOW (OPENABLE)
- ⊖ FIXED GLASS WINDOW
- ⊗ EXHAUST FAN
- ⊔ DOOR

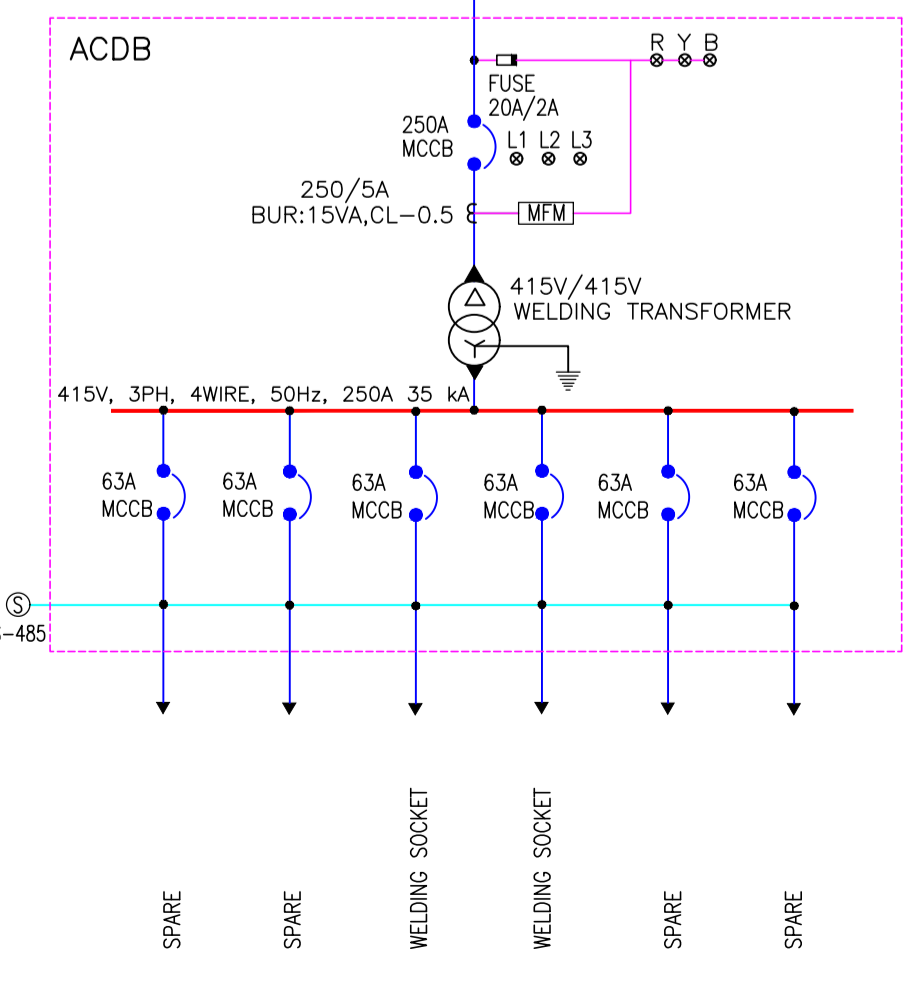
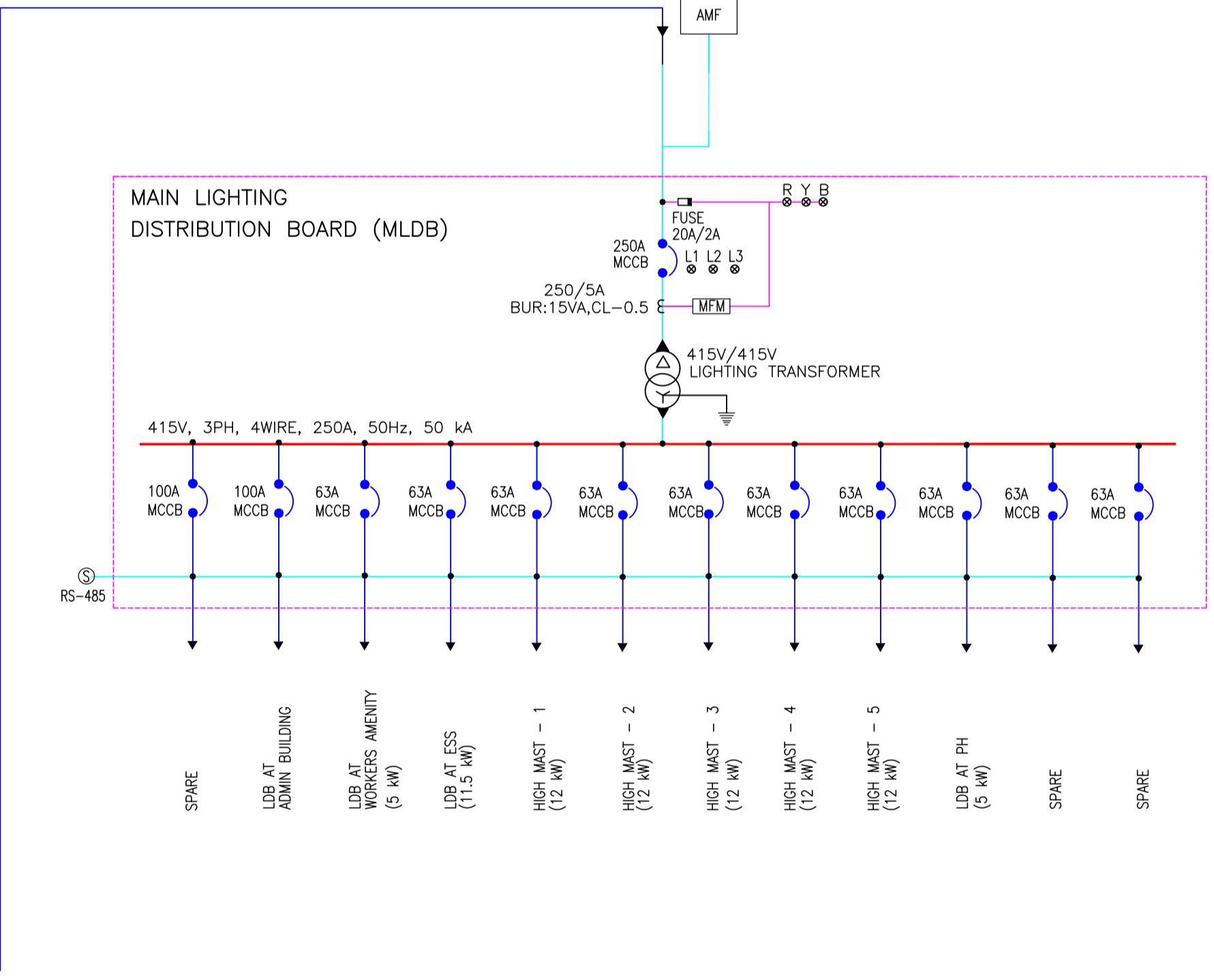
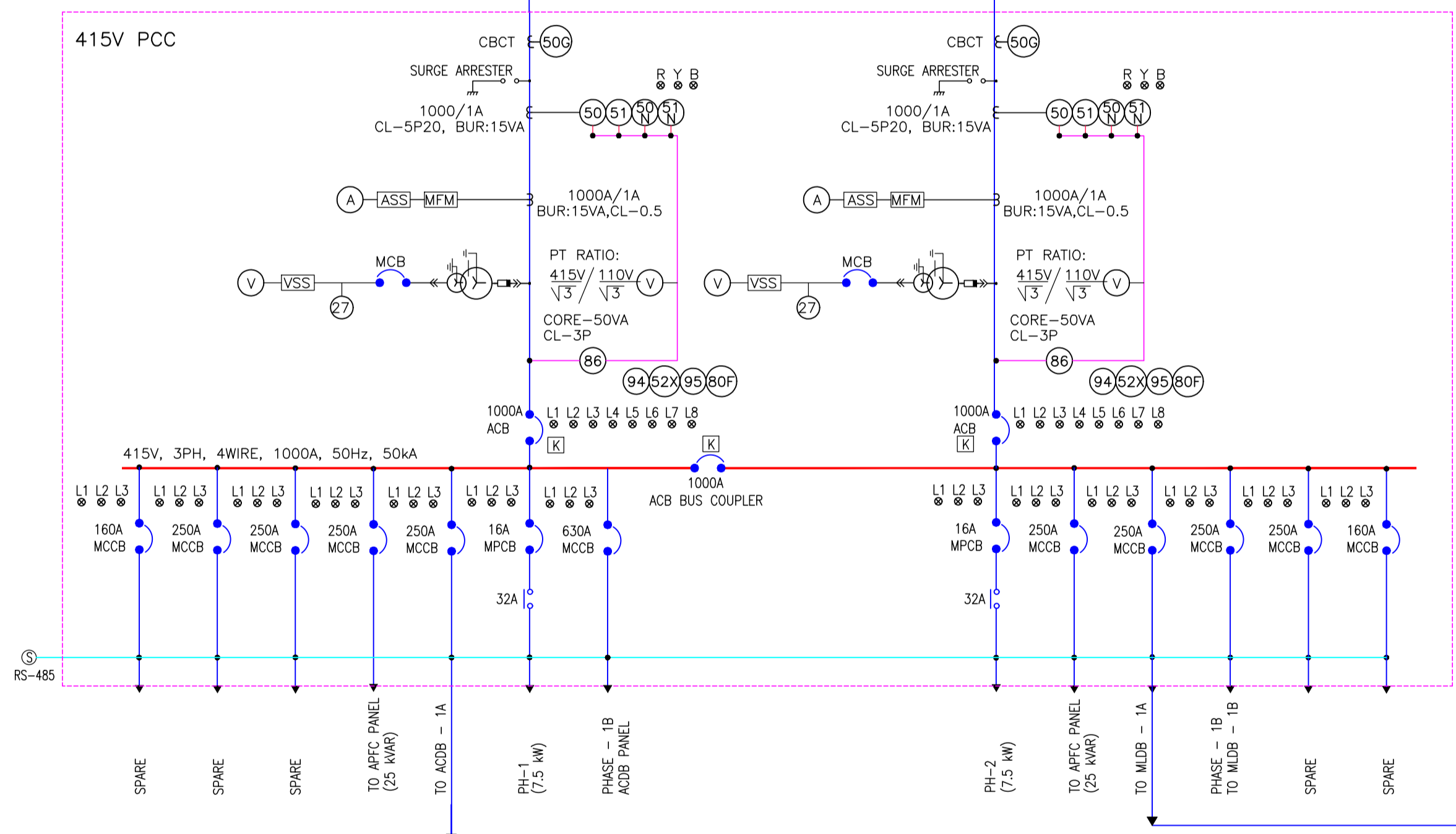
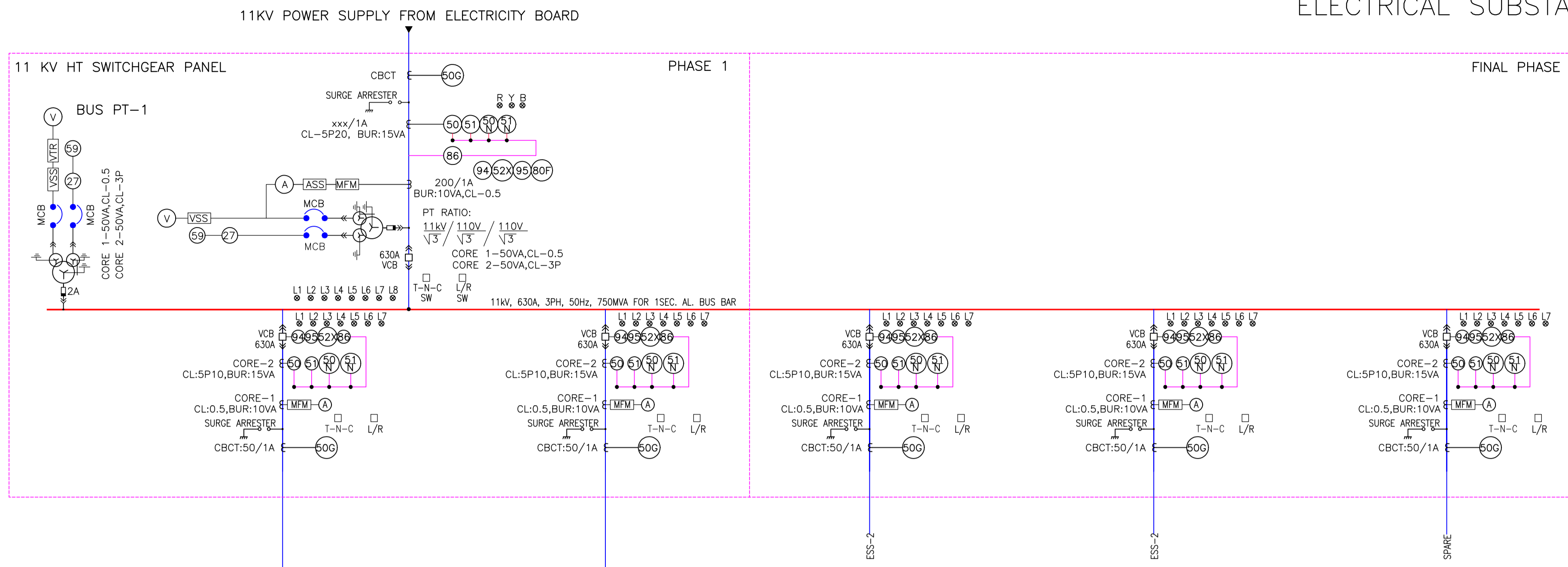
NOTE :-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- * THE CONTRACTOR SHALL PROCURE THE EQUIPMENT FOR PHASE 1 ONLY & PROVISION SHALL BE MADE FOR PHASE 2.

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>		PROJECT		
		<p>DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>		
<p>PMC PROJECTS INDIA PRIVATE LIMITED From vision to reality...</p>		CONSULTANT		
		NAME	SIGN	DATE
<p>HOWE</p>		DRN	VAP	25/09/17
		CHD	AM	25/09/17
		APD	SP	25/09/17
<p>TITLE</p> <p>IWT TERMINAL AT VARANASI SUB STATION EQUIPMENT LAYOUT IN MASTER PLAN</p>		JOB. NO.	DRG. NO.	
		I-525	VTR-232	
COORDINATE SYSTEM USED:		ENTER CO-ORD SYSTEM HERE		
<p>THIS DESIGN OR DRAWING IS THE PROPERTY OF</p> <p>HOWE</p>		<p>IT IS SUBJECT TO THEIR RECALL AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</p>		
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0	

REV	DATE	DESCRIPTION	VAP	AM	SP
0	25/09/17		DRN	CHD	APD

ELECTRICAL SUBSTATION (ESS)



NOTES:-

- 1) LT SWITCHGEAR PANEL SHALL BE SUITABLE FOR FUTURE EXPANSION ON BOTH SIDES.
- 2) LT SWITCHBOARD AT LEAST 20% SPARE FEEDERS OF EACH TYPE AND RATING SHALL BE PROVIDED.
- 3) ALL METERING & PROTECTION SHALL BE PROVIDED AS PER SPECIFICATION.
- 4) DESIGN AMBIENT TEMPERATURE: 50°C.
- 5) CABLE SIZES SHALL BE AS PER APPROVED CALCULATIONS.
- 6) RATING OF COMPONENTS SHALL BE SELECTED BY THE SUPPLIER TO ENSURE PROTECTION OF FEEDERS AS PER TYPE-2 COORDINATION OF IS 13947
- 7) INDICATING LAMPS SHALL BE IN THE FORM OF CLUSTER LED.
- 8) FOR INTERNAL ILLUMINATION OF PANELS FITTINGS SHALL BE CONTROLLED BY THE RESPECTIVE PANEL DOOR SWITCH.
- 9) VA RATINGS OF CTs & PTs ARE INDICATIVE ONLY, VENDOR HAS TO CHECK THE SAME BASED ON LOAD.
- 10) ALL INCOMERS AND OUTGOINGS 125A AND ABOVE SHALL HAVE MICROPROCESSOR BASED O/L & SC RELEASES AND BELOW 125A SHALL HAVE THERMAL MAGNETIC BASED O/L AND S/C RELEASES. HOWEVER WELDING FEEDER SHALL BE PROVIDED WITH AN ADDITIONAL EARTH FAULT.
- 11) CURRENT DENSITY OF ALL ALUMINIUM BUSBAR SHALL NOT EXCEED 1.0/SQ.MM AND OF COPPER BUSBAR SHALL NOT EXCEED 1.5 A/SQ.MM.

SYMBOL	DESCRIPTION
	FUSE
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	MOULDED CASE CIRCUIT BREAKER
	INDICATION
	AIR CIRCUIT BREAKER
	SURGE ARRESTER
	CORE BALANCE CURRENT TRANSFORMER
	UNDER VOLTAGE RELAY
	INSTANTANEOUS OVER CURRENT RELAY
	INSTANTANEOUS EARTH FAULT RELAY
	IDMT OVER CURRENT RELAY
	IDMT EARTH FAULT RELAY
	OVER VOLTAGE RELAY
	TRIP CIRCUIT SUP. RELAY
	LOCK OUT RELAY
	ANTI PUMPING RELAY
	INSTANTANEOUS GROUND FAULT RELAY
	DC FAIL RELAY
	BREAKER ON RED
	BREAKER OFF GREEN
	BREAKER TRIP AMBER
	SPRING CHARGED RED
	TRIP CIRCUIT HEALTHY
	BREAKER IN TEST POSITION
	BREAKER IN SERVICE POSITION
	DC FAIL
	BREAKER CONTACT MULTIPLIER RELAY
	TRIP NEUTRAL CLOSE SWITCH
	LOCAL/REMOTE SELECTOR SWITCH
	VOLTMETER SELECTOR SWITCH
	VOLTMETER
	AMMETER SELECTOR SWITCH
	AMMETER
	MULTI FUNCTION METER
	VACUUM CIRCUIT BREAKER
	ELECTRICAL & MECHANICAL INTERLOCK
	CONTACTOR
	AUTO MAINS FAILURE WITH CHANGEOVER SWITCH

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (INDIA PRIVATE LIMITED)

DRN	VAP	25/09/17
CHD	AM	25/09/17
APD	SP	25/09/17

TITLE: **IWT TERMINAL AT VARANASI**
POWER SINGLE LINE DIAGRAM IN PHASE-1A

JOB. NO. **I-525** ORG. NO. **VTR-233**

COORDINATE SYSTEM USED: **ENTER CO-ORD SYSTEM HERE**

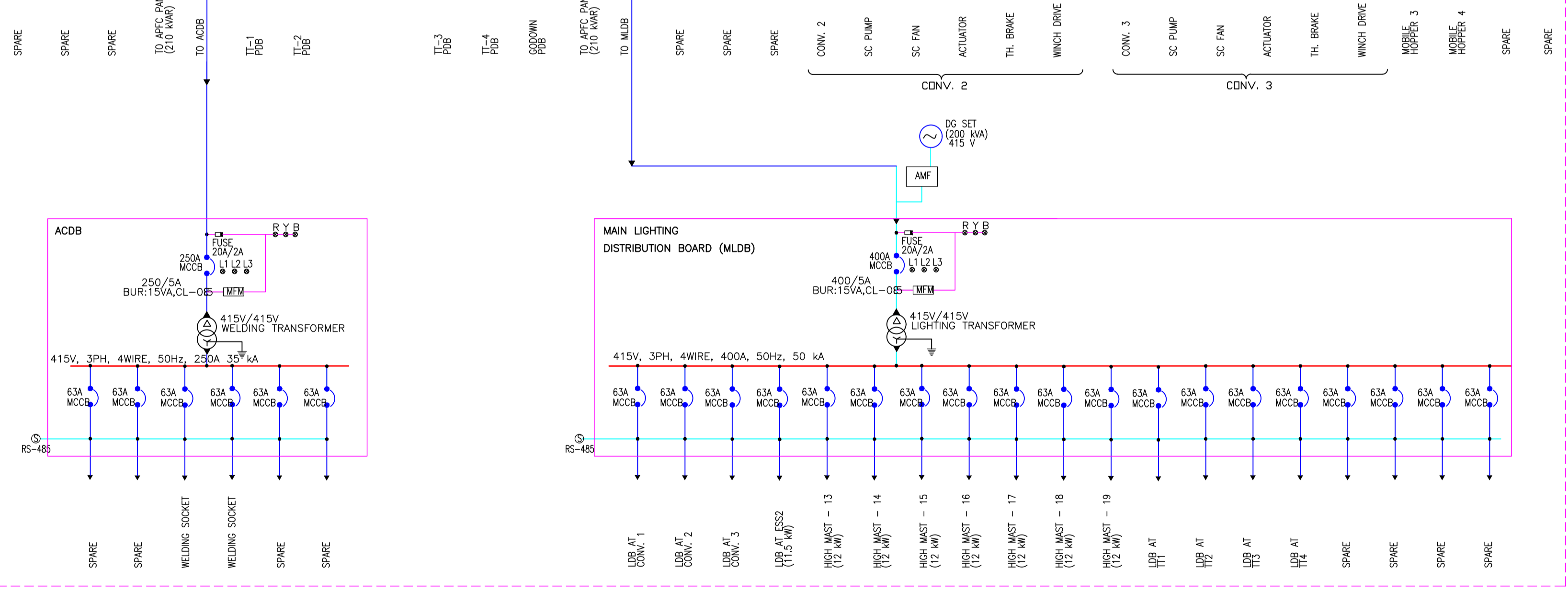
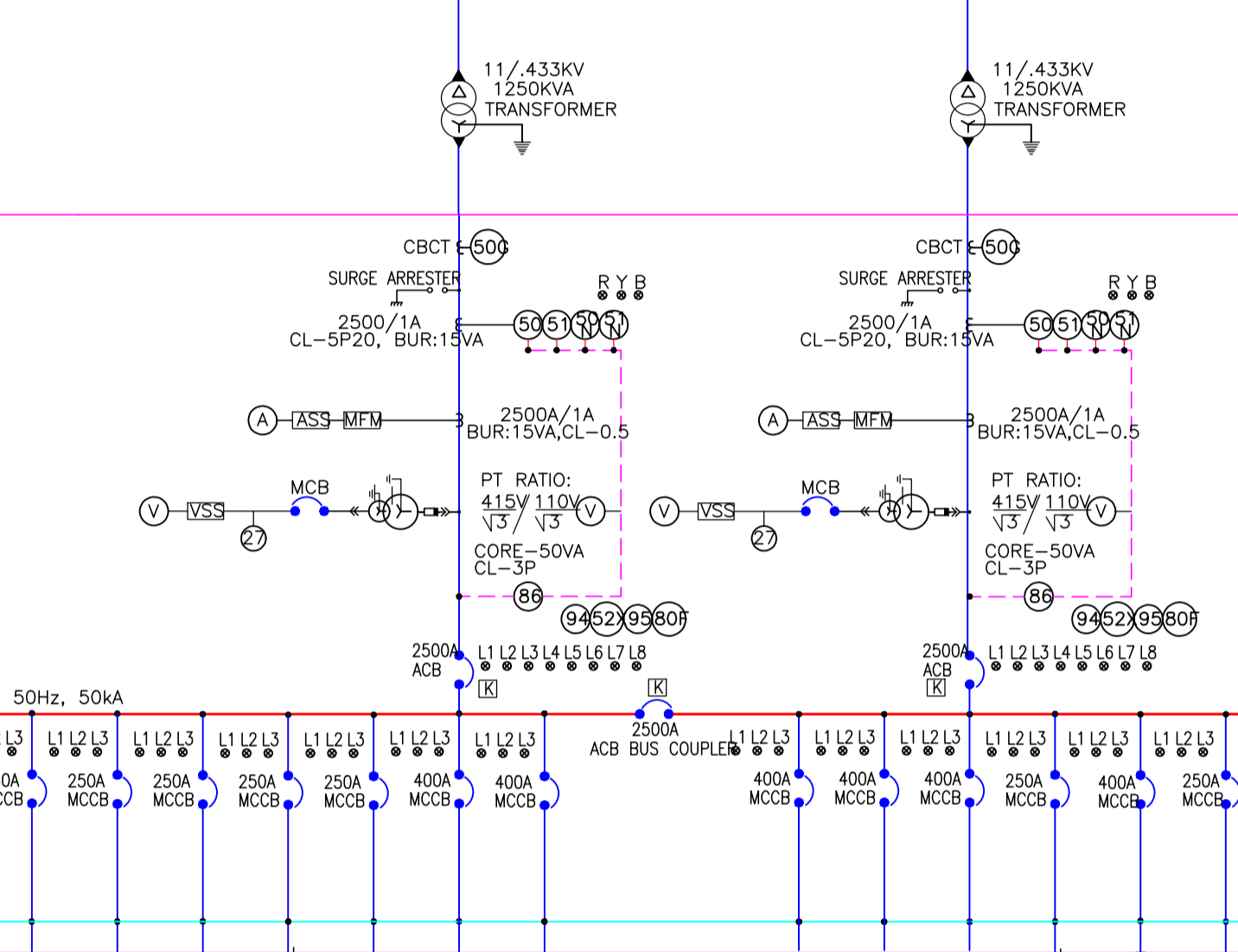
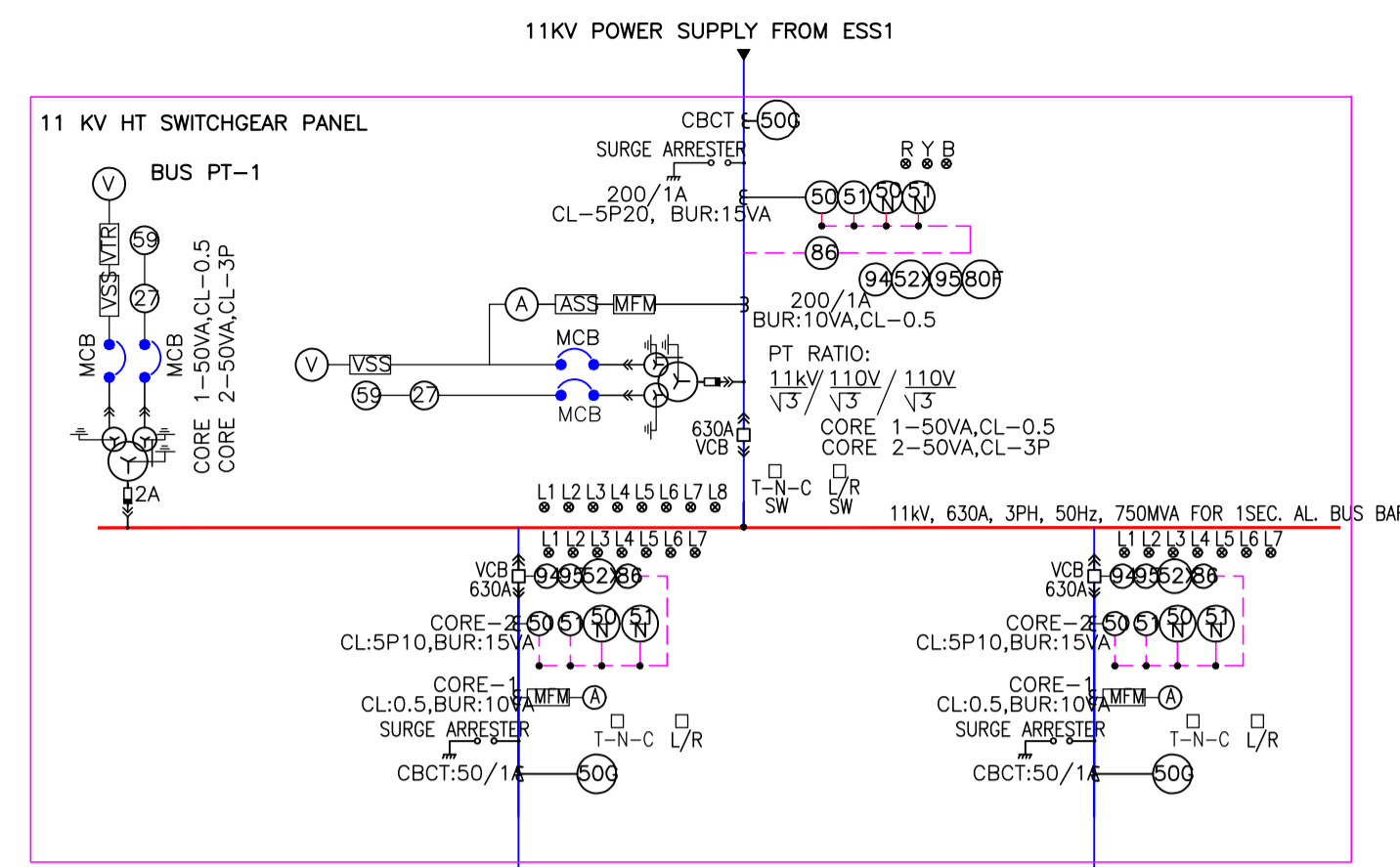
UNIT: **SCALE - AS SHOWN** Size: **A1** REV. **0**

REV	DATE	DESCRIPTION	VAP	AM	SP
0	25/09/17				

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ELECTRICAL SUBSTATION 2 (ESS2)



- NOTES:-**
- 1) LT SWITCHGEAR PANEL SHALL BE SUITABLE FOR FUTURE EXPANSION ON BOTH SIDES.
 - 2) LT SWITCHBOARD AT LEAST 20% SPARE FEEDERS OF EACH TYPE AND RATING SHALL BE PROVIDED.
 - 3) ALL METERING & PROTECTION SHALL BE PROVIDED AS PER SPECIFICATION.
 - 4) DESIGN AMBIENT TEMPERATURE: 50°C.
 - 5) CABLE SIZES SHALL BE AS PER APPROVED CALCULATIONS.
 - 6) RATING OF COMPONENTS SHALL BE SELECTED BY THE SUPPLIER TO ENSURE PROTECTION OF FEEDERS AS PER TYPE-2 COORDINATION OF IS 13947
 - 7) INDICATING LAMPS SHALL BE IN THE FORM OF CLUSTER LED.
 - 8) FOR INTERNAL ILLUMINATION OF PANELS FITTINGS SHALL BE CONTROLLED BY THE RESPECTIVE PANEL DOOR SWITCH.
 - 9) VA RATINGS OF CTs & PTs ARE INDICATIVE ONLY, VENDOR HAS TO CHECK THE SAME BASED ON LOAD.
 - 10) ALL INCOMERS AND OUTGOINGS 125A AND ABOVE SHALL HAVE MICROPROCESSOR BASED O/L & SC RELEASES AND BELOW 125A SHALL HAVE THERMAL MAGNETIC BASED O/L AND S/C RELEASES. HOWEVER WELDING FEEDER SHALL BE PROVIDED WITH AN ADDITIONAL EARTH FAULT.
 - 11) CURRENT DENSITY OF ALL ALUMINIUM BUSBAR SHALL NOT EXCEED 1.0/SQ.MM AND OF COPPER BUSBAR SHALL NOT EXCEED 1.5 A/SQ.MM.

SYMBOL	DESCRIPTION
	FUSE
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	MOULDED CASE CIRCUIT BREAKER
	INDICATION
	AIR CIRCUIT BREAKER
	SURGE ARRESTER
	CORE BALANCE CURRENT TRANSFORMER
	UNDER VOLTAGE RELAY
	INSTANTANEOUS OVER CURRENT RELAY
	INSTANTANEOUS EARTH FAULT RELAY
	IDMT OVER CURRENT RELAY
	IDMT EARTH FAULT RELAY
	OVER VOLTAGE RELAY
	TRIP CIRCUIT SUP. RELAY
	LOCK OUT RELAY
	ANTI PUMPING RELAY
	INSTANTANEOUS GROUND FAULT RELAY
	DC FAIL RELAY
	BREAKER ON RED
	BREAKER OFF GREEN
	BREAKER TRIP AMBER
	SPRING CHARGED RED
	TRIP CIRCUIT HEALTHY
	BREAKER IN TEST POSITION
	BREAKER IN SERVICE POSITION
	DC FAIL
	BREAKER CONTACT MULTIPLIER RELAY
	TRIP NEUTRAL CLOSE SWITCH
	LOCAL/REMOTE SELECTOR SWITCH
	VOLTMETER SELECTOR SWITCH
	VOLTMETER
	AMMETER SELECTOR SWITCH
	AMMETER
	MULTI FUNCTION METER
	VACUUM CIRCUIT BREAKER
	ELECTRICAL & MECHANICAL INTERLOCK
	CONTACTOR
	AUTO MAINS FAILURE WITH CHANGEOVER SWITCH

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (INDIA) PRIVATE LIMITED

NAME	SIGN	DATE
DRN	VAP	25/09/17
CHD	AM	25/09/17
APD	SP	25/09/17

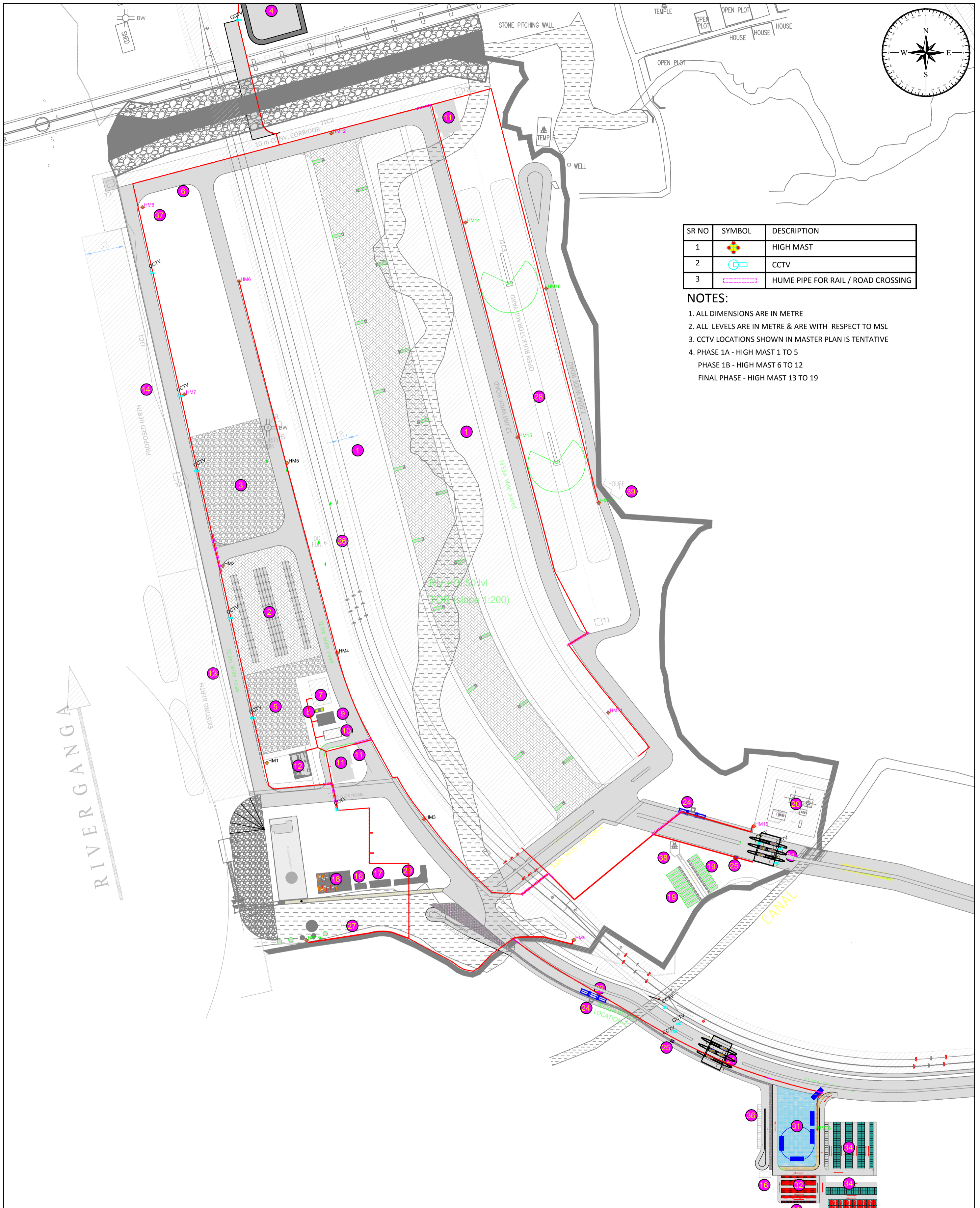
TITLE: **IWT TERMINAL AT VARANASI**
POWER SINGLE LINE DIAGRAM IN MASTER PLAN

JOB. NO. **I-525** DRG. NO. **VTR-234**

COORDINATE SYSTEM USED: **ENTER CO-ORD SYSTEM HERE**

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	25/09/17				

UNIT: **SCALE - AS SHOWN** Size: **A1** REV. **0**



SR NO	SYMBOL	DESCRIPTION
1		HIGH MAST
2		CCTV
3		HUME PIPE FOR RAIL / ROAD CROSSING

- NOTES:**
1. ALL DIMENSIONS ARE IN METRE
 2. ALL LEVELS ARE IN METRE & ARE WITH RESPECT TO MSL
 3. CCTV LOCATIONS SHOWN IN MASTER PLAN IS TENTATIVE
 4. PHASE 1A - HIGH MAST 1 TO 5
PHASE 1B - HIGH MAST 6 TO 12
FINAL PHASE - HIGH MAST 13 TO 19

RIVER GANGA

CANAL

श्रीविक्रम
INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

DRN	VA	25/09/17
CHD	AL	25/09/17
APD	SP	25/09/17

CONSULTANT: **HOWE** | **PMC PROJECTS** (INDIA PRIVATE LIMITED) From vision to reality...

TITLE: IWT TERMINAL AT VARANASI HIGH MAST & CABLE ROUTE

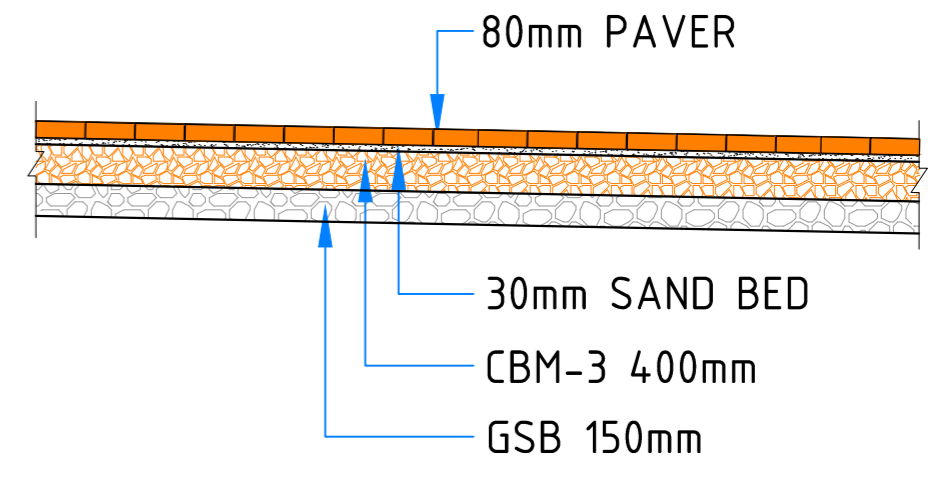
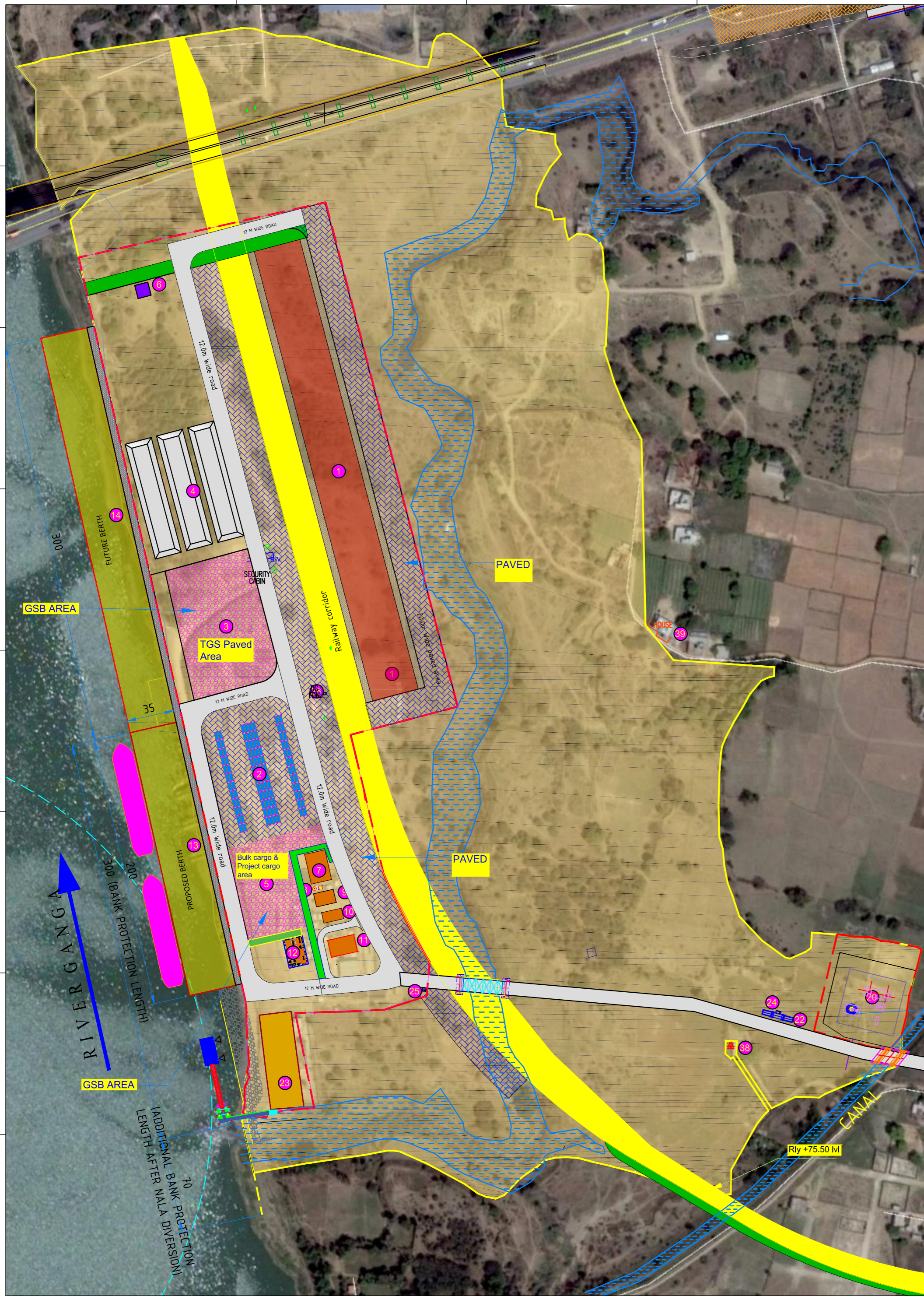
JOB. NO. I-525 | DRG. NO. VTR-235

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

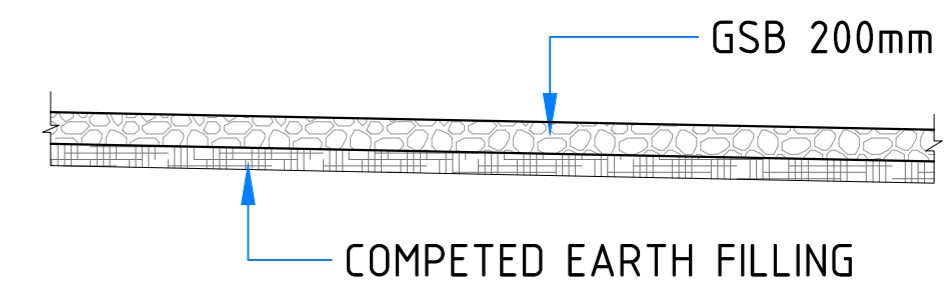
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
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REV	DATE	DESCRIPTION	DRN	CHD	APD
C	25/09/17				

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TYPICAL PAVED FOR YARD DEVELOPMENT SECTION



TYPICAL BULK & PROJECTS CARGO STORAGE YARD

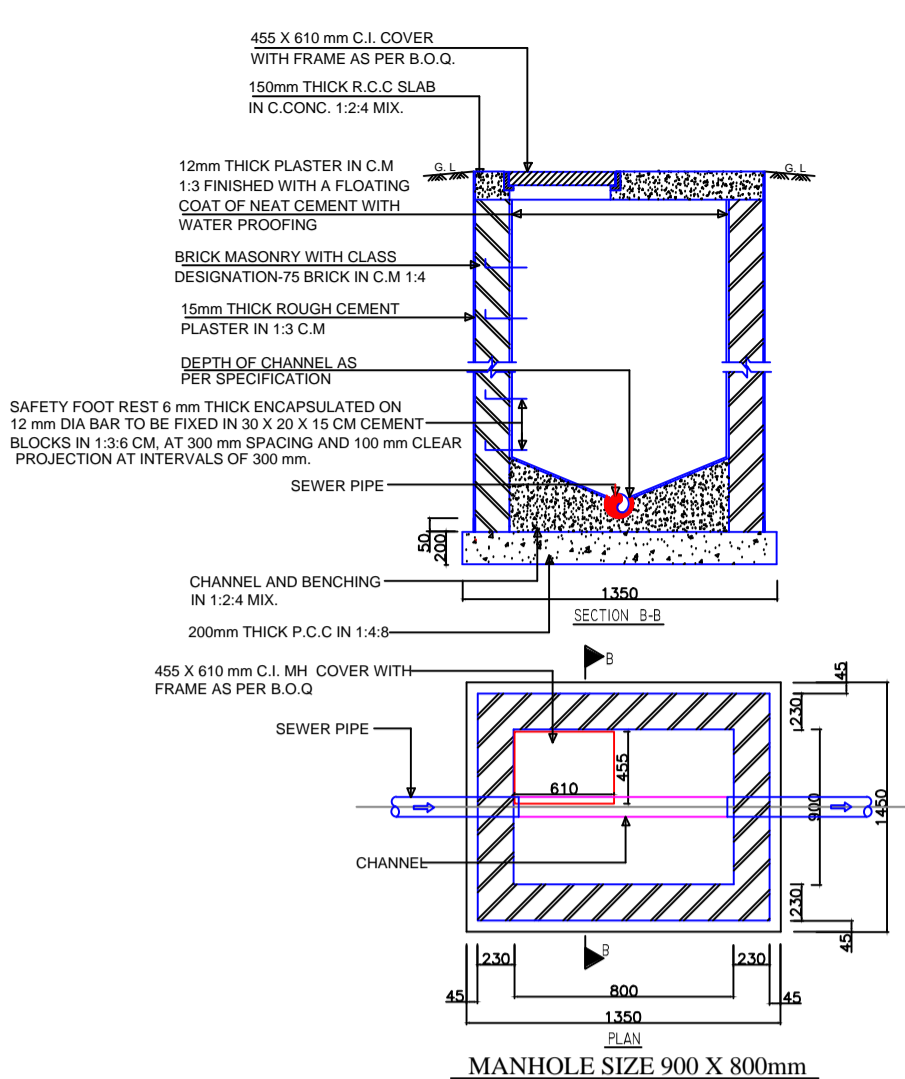
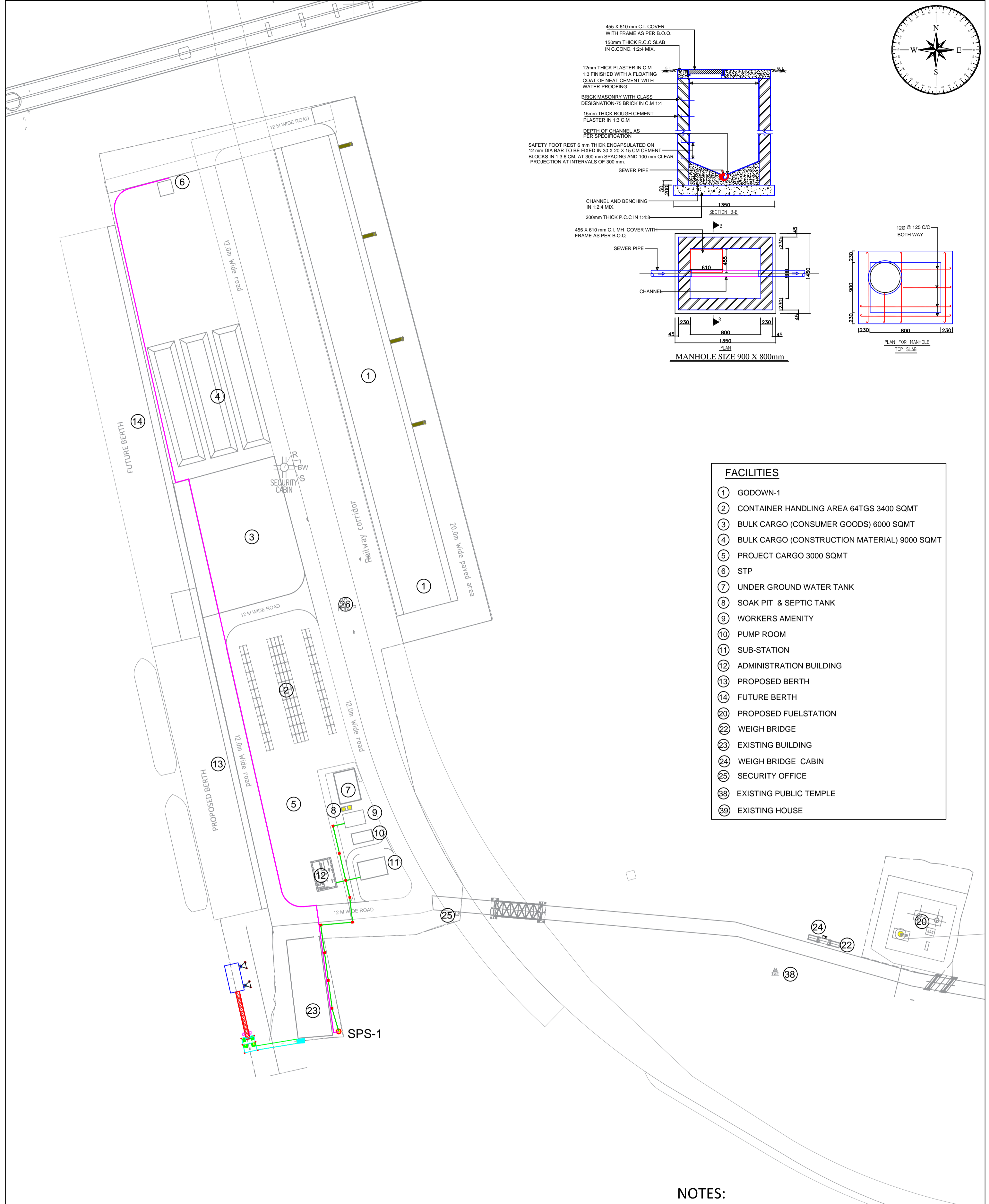
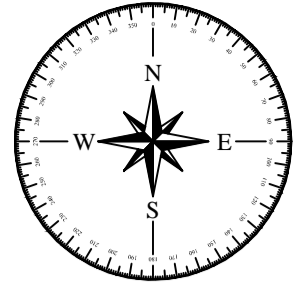
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRE
 2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

		INLAND WATERWAYS AUTHORITY OF INDIA	
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT 		DATE: 15/01/17	DATE: 15/01/17
IT IWT TERMINAL AT VARANASI YARD DEVELOPMENT DETAIL (PHASE-1B)		JOB NO.: I-525	DRC. NO.: VTR-236

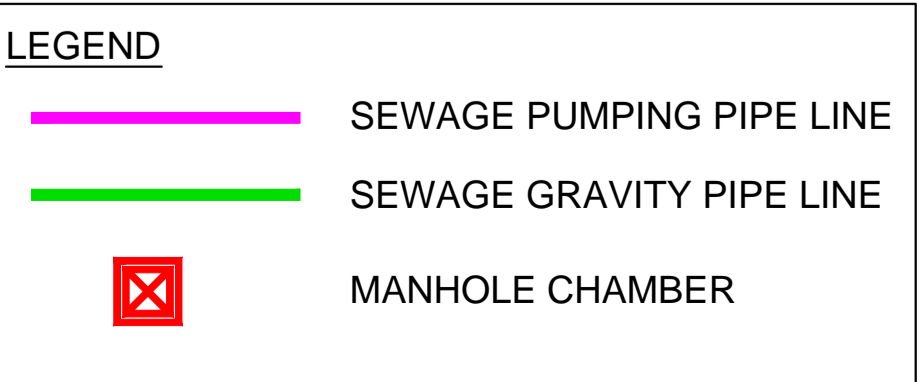
REV	DATE	DESCRIPTION	DRN	CHD	APD
0	15/01/17				

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COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE
 UNIT: SCALE - AS SHOWN
 Size: A1
 PIV: 0



- FACILITIES**
- ① GODOWN-1
 - ② CONTAINER HANDLING AREA 64TGS 3400 SQMT
 - ③ BULK CARGO (CONSUMER GOODS) 6000 SQMT
 - ④ BULK CARGO (CONSTRUCTION MATERIAL) 9000 SQMT
 - ⑤ PROJECT CARGO 3000 SQMT
 - ⑥ STP
 - ⑦ UNDER GROUND WATER TANK
 - ⑧ SOAK PIT & SEPTIC TANK
 - ⑨ WORKERS AMENITY
 - ⑩ PUMP ROOM
 - ⑪ SUB-STATION
 - ⑫ ADMINISTRATION BUILDING
 - ⑬ PROPOSED BERTH
 - ⑭ FUTURE BERTH
 - ⑯ PROPOSED FUELSTATION
 - ⑰ WEIGH BRIDGE
 - ⑱ EXISTING BUILDING
 - ⑳ WEIGH BRIDGE CABIN
 - ㉑ SECURITY OFFICE
 - ㉒ EXISTING PUBLIC TEMPLE
 - ㉓ EXISTING HOUSE



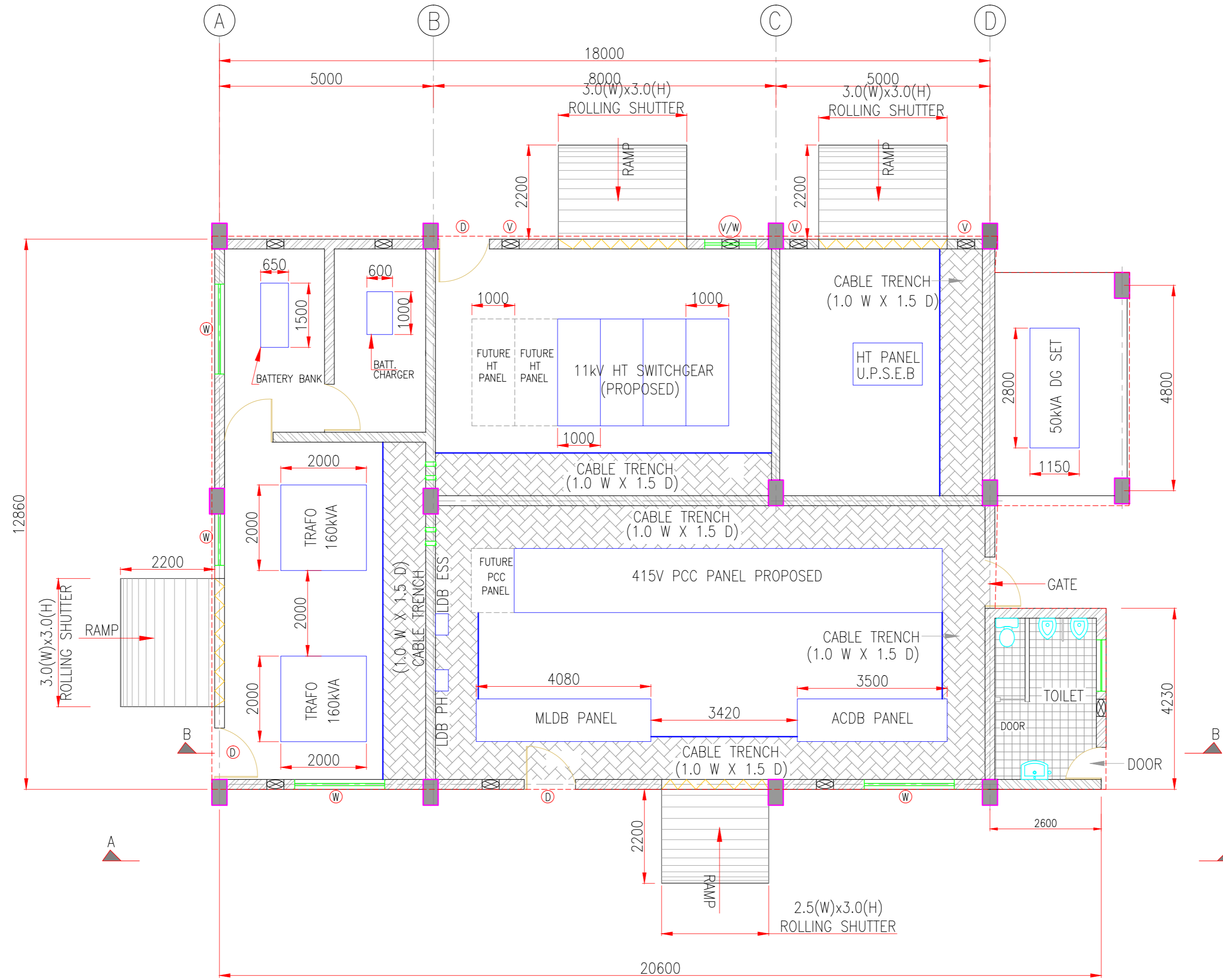
NOTES:
1. ALL DIMENSIONS ARE IN METRE

		INLAND WATERWAYS AUTHORITY OF INDIA													
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)															
CONSULTANT		<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>VSP</td> <td>27/08/18</td> </tr> <tr> <td>CHD</td> <td>SP</td> <td>27/08/18</td> </tr> <tr> <td>APD</td> <td>SP</td> <td>27/08/18</td> </tr> </table>		NAME	SIGN	DATE	DRN	VSP	27/08/18	CHD	SP	27/08/18	APD	SP	27/08/18
NAME	SIGN	DATE													
DRN	VSP	27/08/18													
CHD	SP	27/08/18													
APD	SP	27/08/18													
TITLE IWT TERMINAL AT VARANASI SEWERAGE COLLECTION SYSTEM		JOB. NO. I-525 DRG. NO. VTR-237													
COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE															
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0												

REV	DATE	DESCRIPTION	DRN	CHD	APD
0	27/08/18				

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LEGEND :

☒ EXHAUST FAN

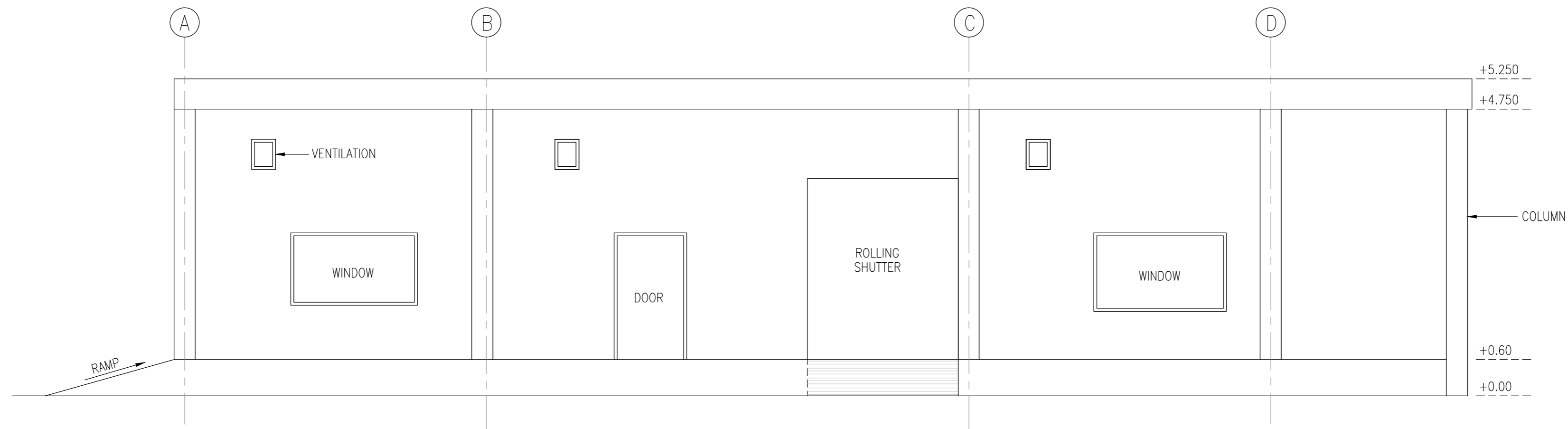
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE
2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

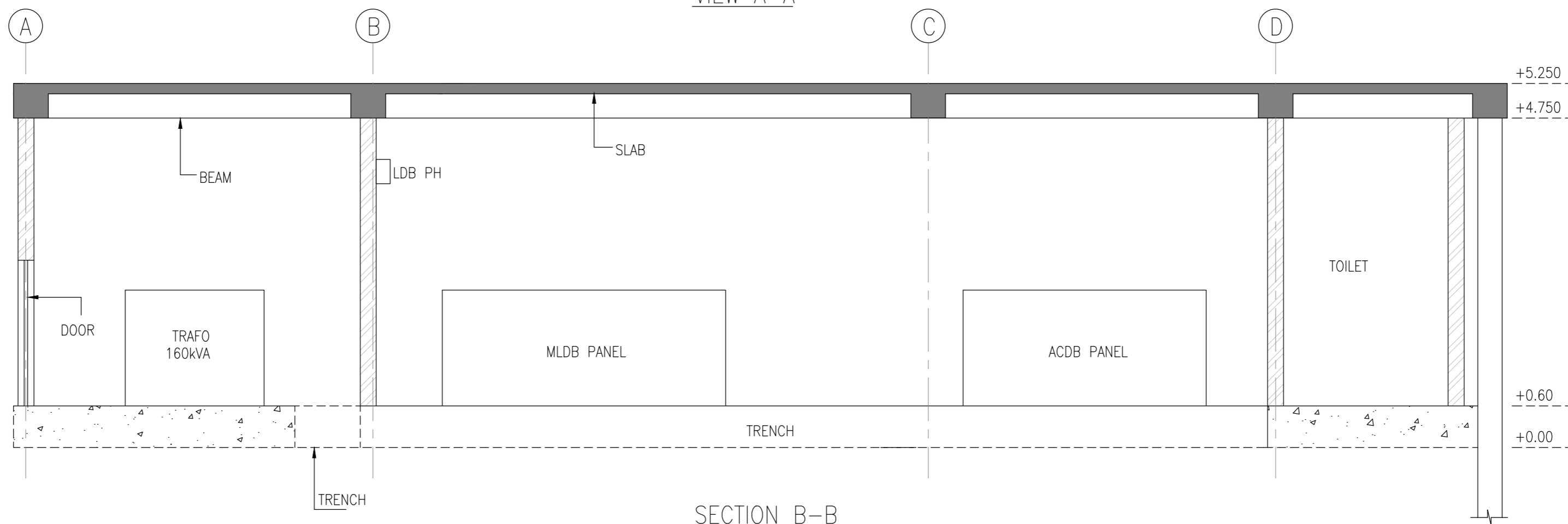
<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>																			
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>																			
<p>CONSULTANT:</p> <p>HOWE</p>		<table border="1"> <tr> <td>DATE</td> <td>BY</td> <td>CHKD</td> <td>DATE</td> </tr> <tr> <td>16/01/17</td> <td>VAP</td> <td>AM</td> <td>16/01/17</td> </tr> <tr> <td>16/01/17</td> <td>KP</td> <td>SP</td> <td>16/01/17</td> </tr> <tr> <td>16/01/17</td> <td>SP</td> <td></td> <td></td> </tr> </table>		DATE	BY	CHKD	DATE	16/01/17	VAP	AM	16/01/17	16/01/17	KP	SP	16/01/17	16/01/17	SP		
DATE	BY	CHKD	DATE																
16/01/17	VAP	AM	16/01/17																
16/01/17	KP	SP	16/01/17																
16/01/17	SP																		
<p>TITLE:</p> <p>IWT TERMINAL AT VARANASI ELECTRICAL SUBSTATION PLAN (ESS-1) (PHASE-1A)</p>		<p>DR. NO. : I-525</p> <p>PG. NO. : VTR-238</p>																	
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>																			
<p>UNIT: SCALE - AS SHOWN</p>		<p>Size: A1</p>																	

REV	DATE	DESCRIPTION	DRN	CHKD	APP
0	16/01/17		VAP	AM	SP

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VIEW A-A



SECTION B-B

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE
2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

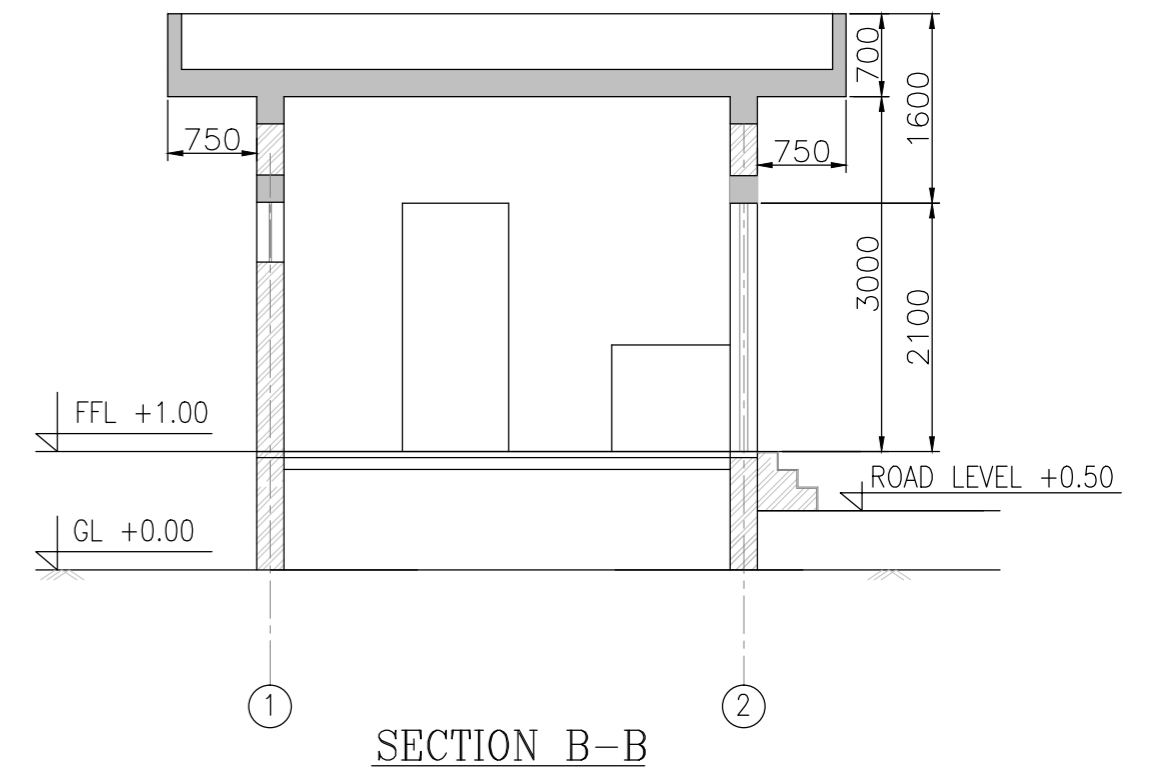
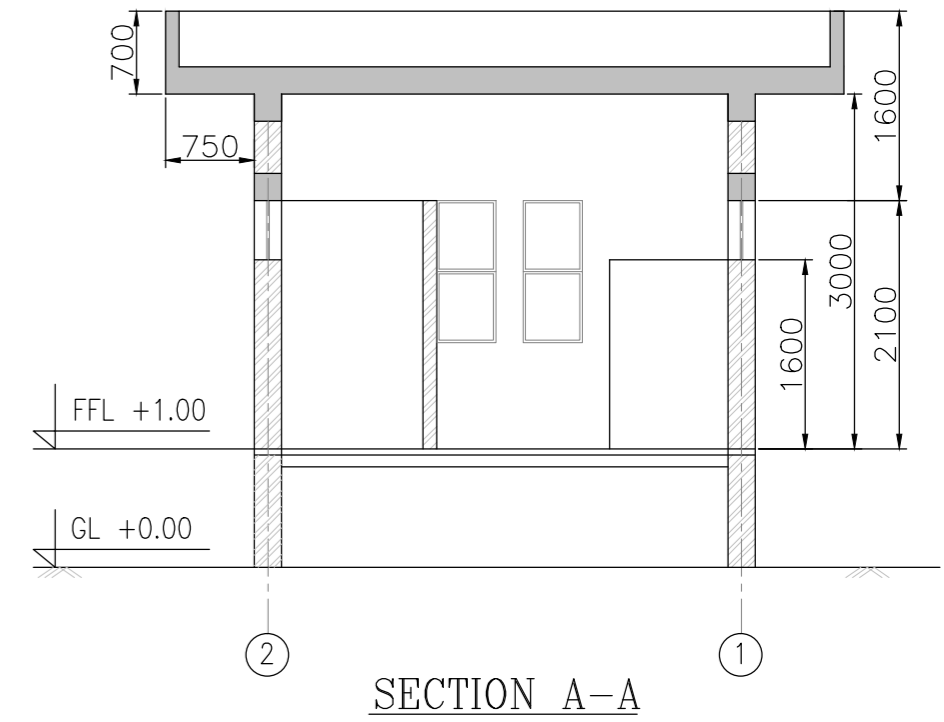
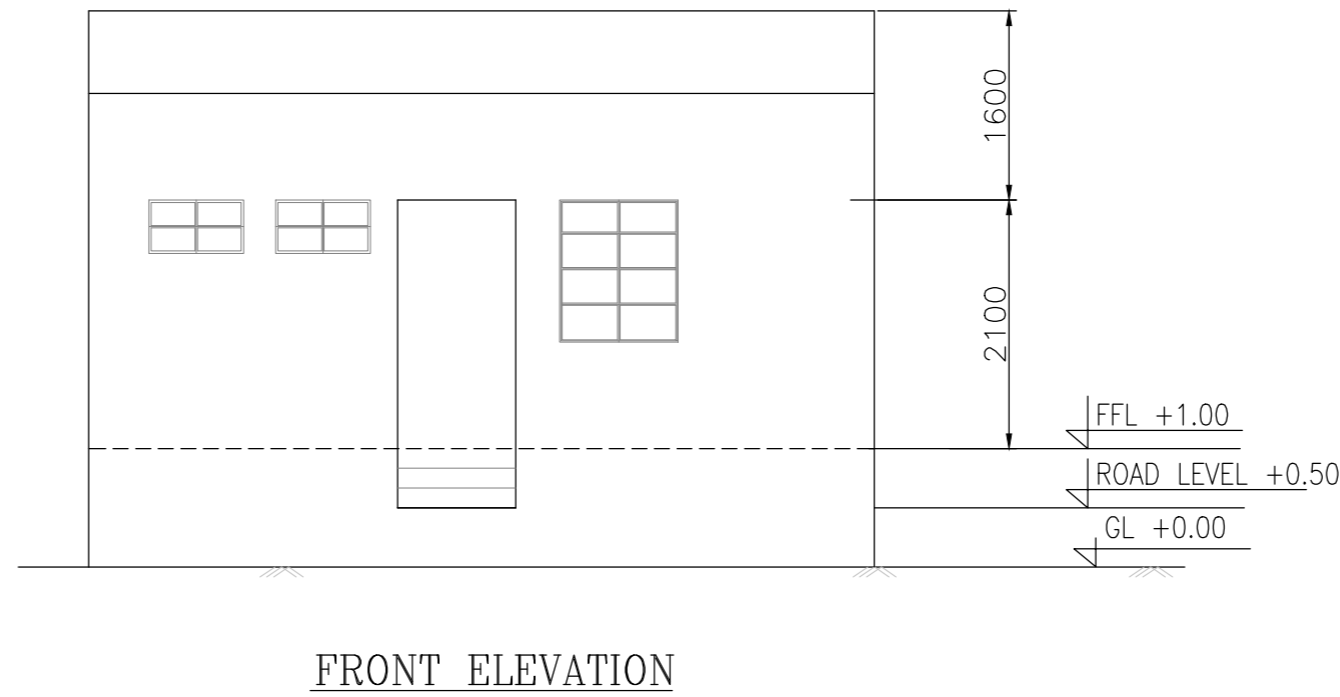
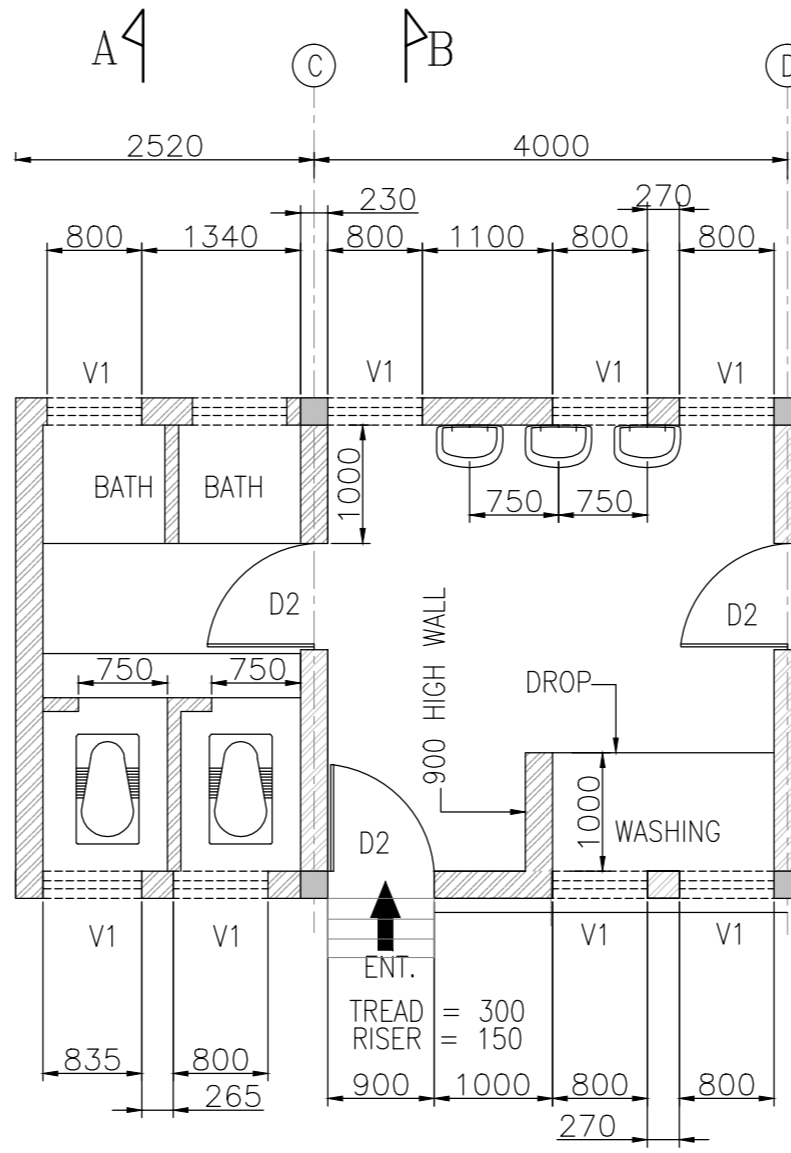
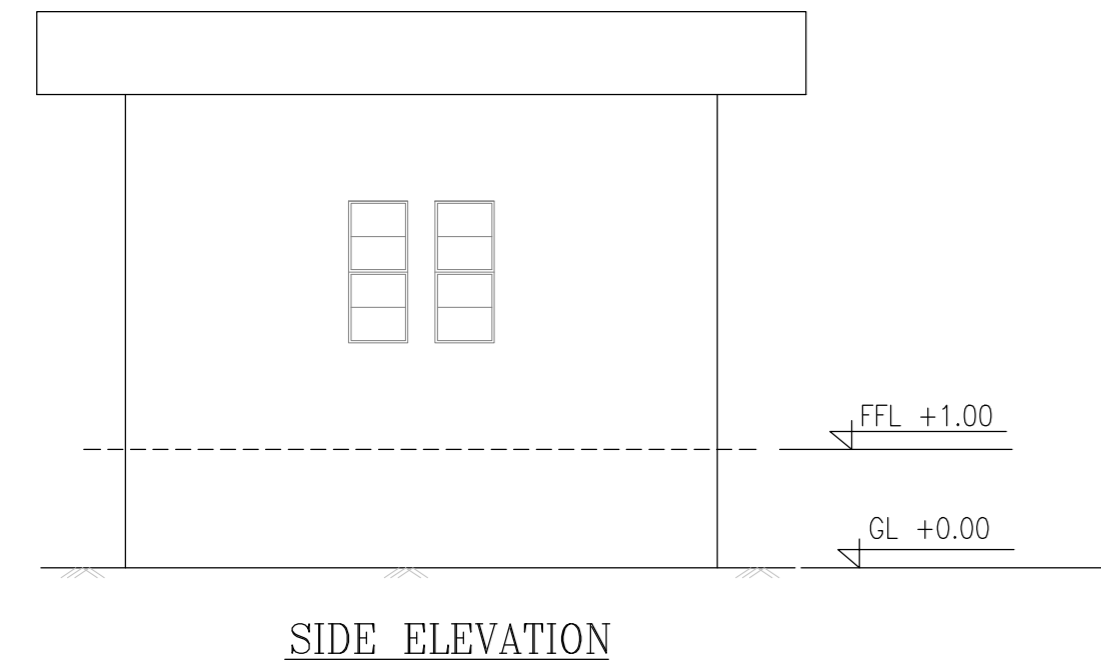
 INLAND WATERWAYS AUTHORITY OF INDIA			
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT:		DATE:	SHEET NO.:
 		DATE: 16/01/17	SHEET NO.: 16/01/17
HOWE		DATE: 16/01/17	SHEET NO.: 16/01/17
III		JOB NO.: I-525	DRC. NO.: VTR-239
IWT TERMINAL AT VARANASI ELECTRICAL SUBSTATION ELEVATION & SECTION (ESS-1) (PHASE-1A)			
COORDINATE SYSTEM: JZCZ ENTER CO-ORD SYSTEM HERE			
UNIT:		SCALE: AS SHOWN	SIZE: A1
		SCALE: AS SHOWN	REV. 0

REV.	DATE	DESCRIPTION	DRN.	C.H.D.	ARD.
0	16/01/17		VAP	AM	SP

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PROPOSED SCHEDULE OF FINISHING MATERIALS				
GROUND FLOOR	1	COMMON ROOM	VITRIFIED PORCELAIN TILES	PLASTIC EMULSION PAINTS
	2	FIRST-AID ROOM	VITRIFIED PORCELAIN TILES	PLASTIC EMULSION PAINTS
	3	TOILETS	WHITE MARBLE	FULL HEIGHT CERAMIC TILES
	4	BATH	WHITE MARBLE	FULL HEIGHT CERAMIC TILES
TERRACE FLOOR	1	TERRACE	BRICK TILES/ CHINA MOSAIC	
OUT SIDE FINISHING	1	CEMENT ROUGH PLASTERS IN TWO COATS WITH WEATHER PROOF PAINT		
	2	FLIGHT OF STEPS IN THE FRONT FINISHED WITH WHITE MARBLE		
	3	COLOUR ANODIZED COATED ALUMINUM WINDOWS WITH 5 MM THICK FLOAT GLASS		
	4	LARGE CLEAR GLAZING AS REQUIRED IN ELEVATION WITH COLOR ALUMINUM COATED ALUMINUM FRAMES		

OPENING SCHEDULE				
S.NO	TYPE	SIZE	CILL LEVEL	LINTEL LEVEL
1.	D1	750 X 2100		2100
2.	D2	900 X 2100		2100
3.	D3	1000 X 2100		2100
4.	W2	500 X 1200	900	2100
5.	W3	1000 X 1200	900	2100
6.	V1	800 X 450	1650	2100



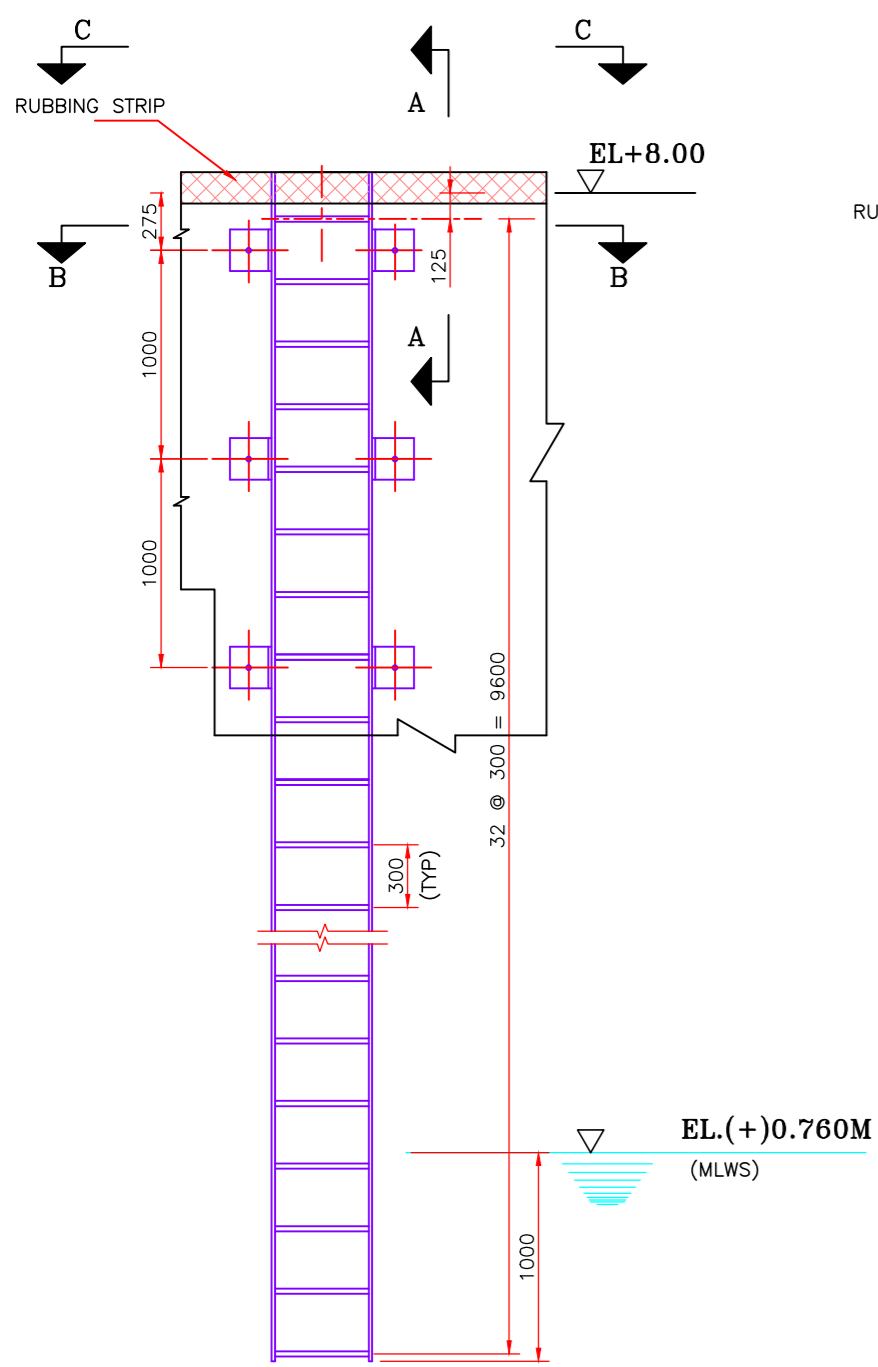
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE
2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

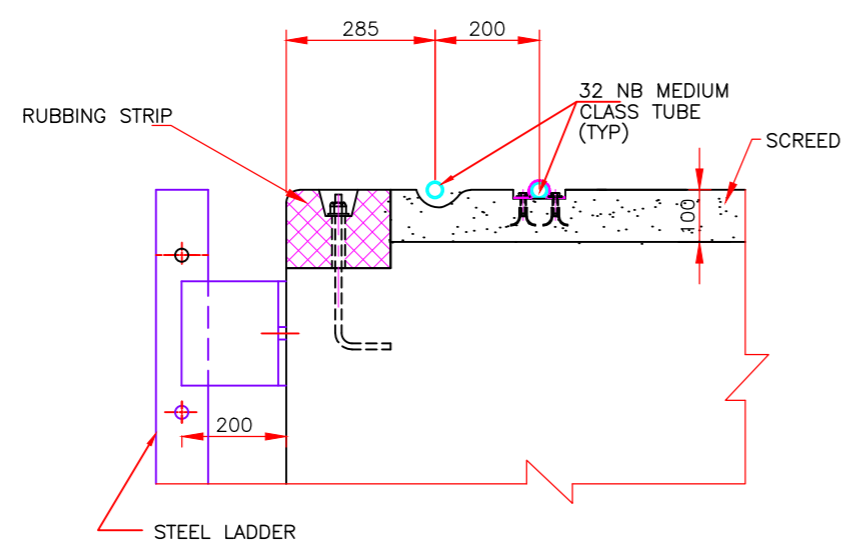
<p style="text-align: center;">INLAND WATERWAYS AUTHORITY OF INDIA</p>											
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>											
<p>CONSULTANT:</p> <p>PMC PROJECTS INDIA PRIVATE LIMITED from vision to reality...</p>	<table border="1"> <tr> <td>DATE</td> <td>REV</td> <td>BY</td> <td>CHK</td> <td>APP</td> </tr> <tr> <td>16/01/17</td> <td>VAP</td> <td>AM</td> <td>SP</td> <td></td> </tr> </table>	DATE	REV	BY	CHK	APP	16/01/17	VAP	AM	SP	
DATE	REV	BY	CHK	APP							
16/01/17	VAP	AM	SP								
<p>III</p> <p style="text-align: center;">IWT TERMINAL AT VARANASI WORKERS AMENITY BLOCK (PHASE-1A)</p>											
<p>JOB. NO. I-525</p>	<p>DSC. NO. VTR-240</p>										
<p>ENTRER CO-ORD SYSTEM HERE</p>											
<p>UNIT</p>	<p>SCALE - AS SHOWN</p>										
<p>Size : A1</p>	<p>REV. 0</p>										

0	16/01/17		VAP	AM	SP
REV	DATE	DESCRIPTION	DRN	CHKD	APP

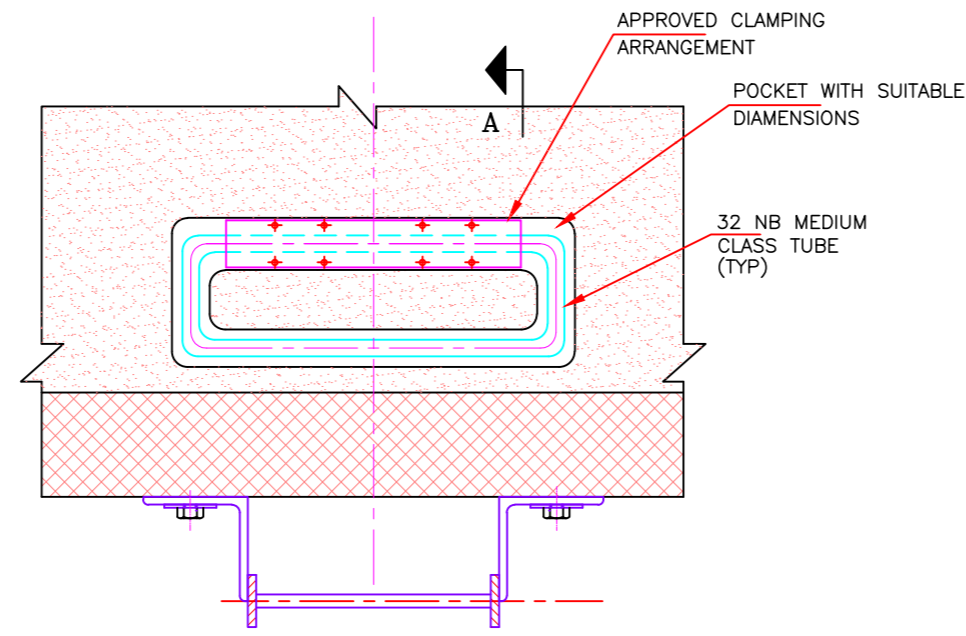
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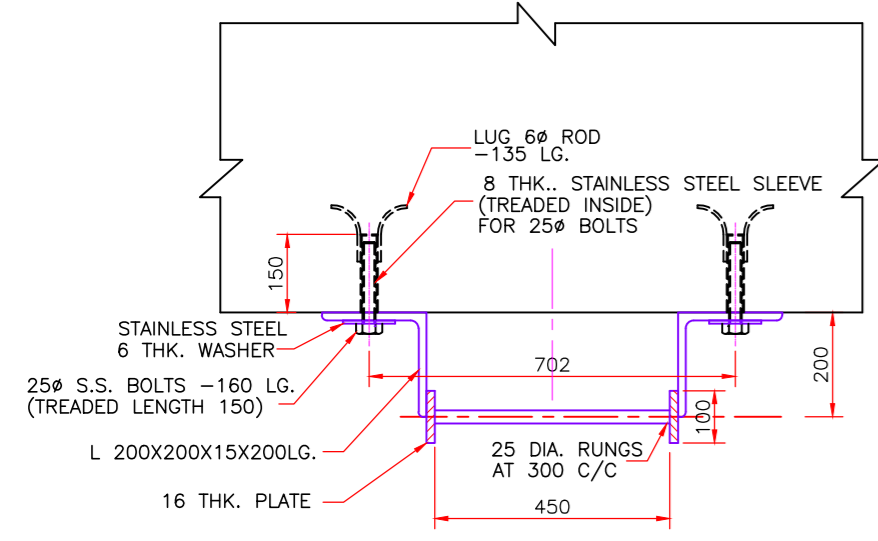
TYP. DETAIL OF LADDER
(SCALE 1:25)



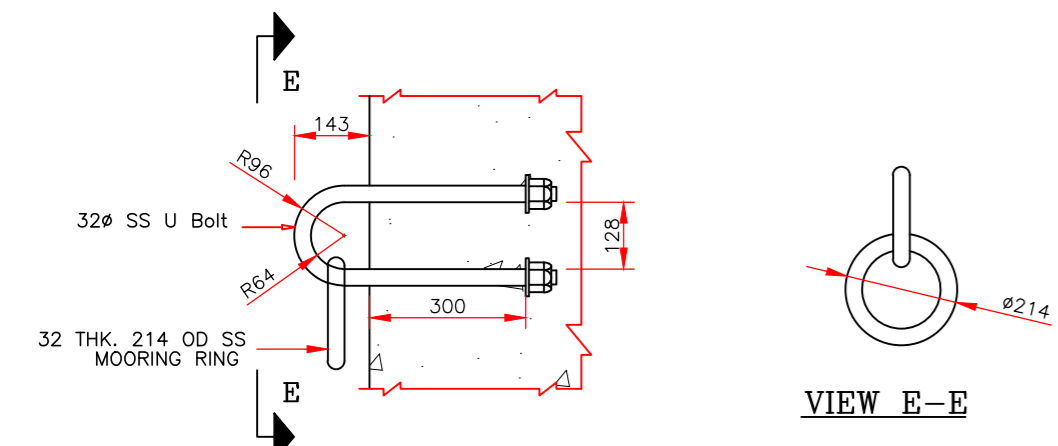
SECTION A-A
(SCALE 1:10)



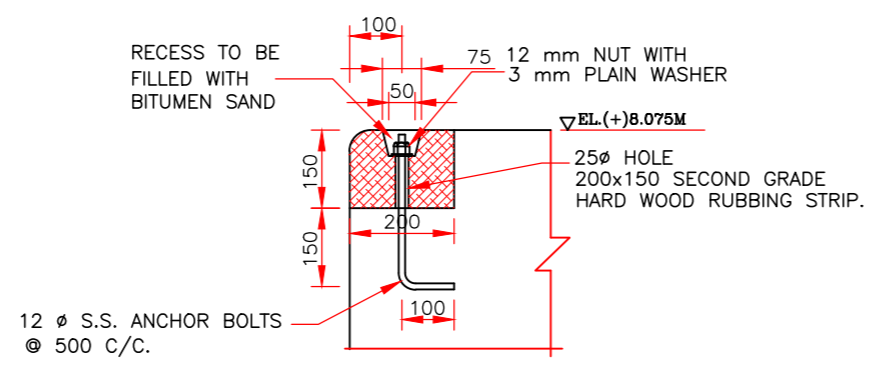
PLAN C-C
(SCALE 1:10)



PLAN B-B
ALL STEEL SECTIONS EXCEPT STAINLESS STEEL TO BE GALVANISED WITH 125 MICRONS ZINC COATING

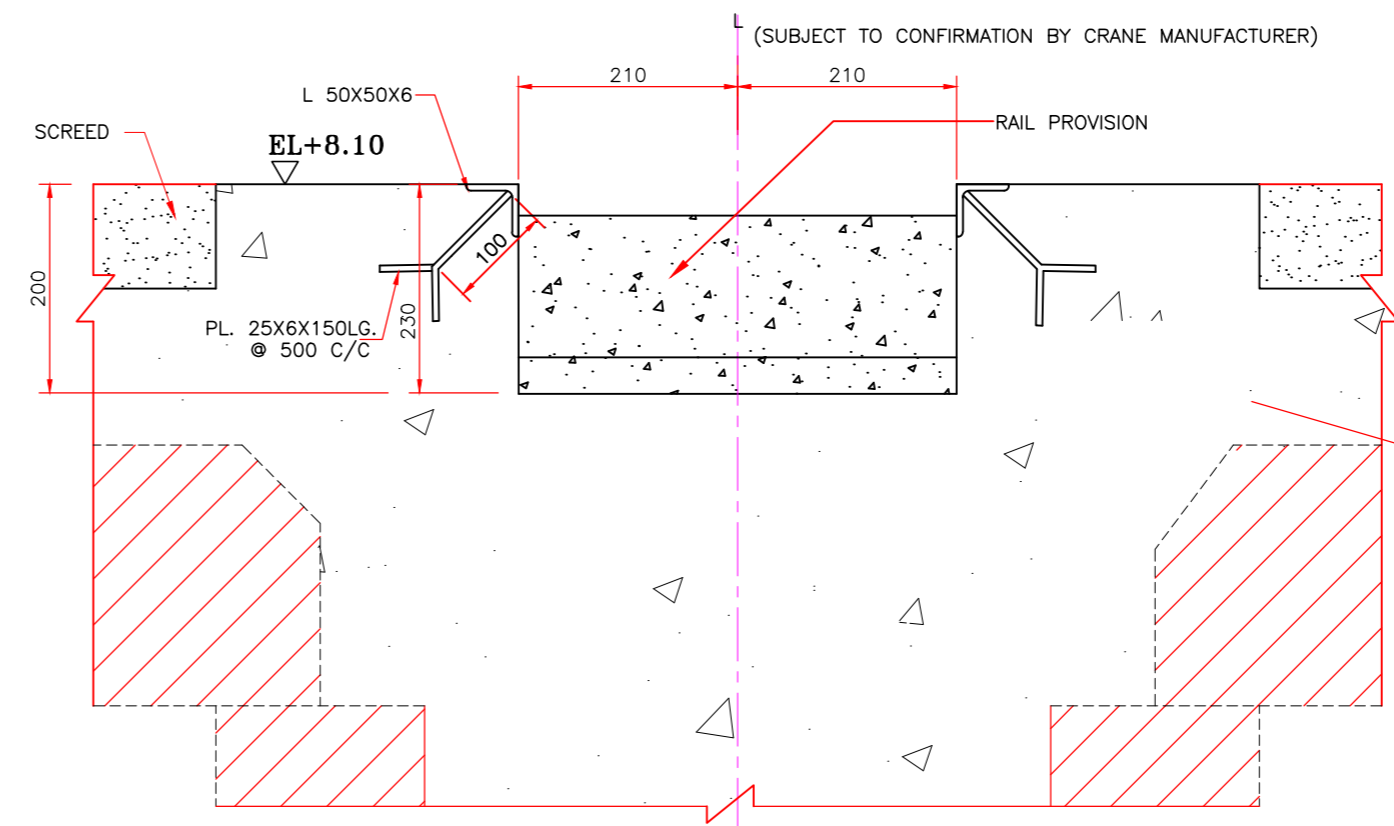


TYP. DET. OF MOORING RING
(SCALE 1:10)

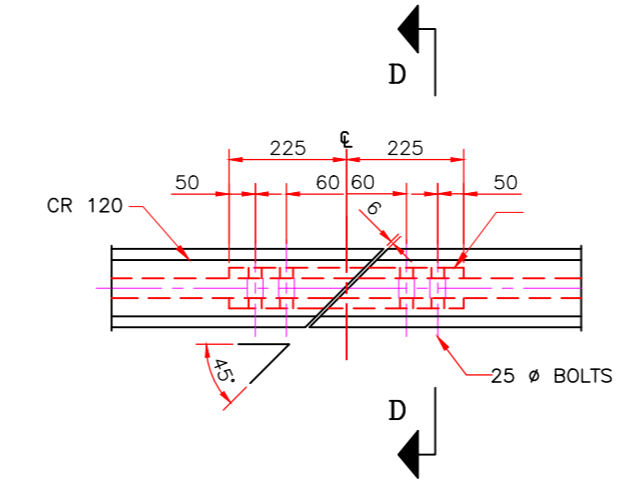


DET. OF RUBBING STRIP
(SCALE 1:10)

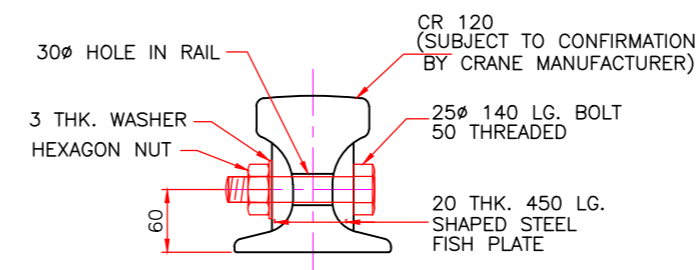
- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METRES RELATED TO CHART DATUM.
 3. ALL FIXTURES INCLUDING BOLTS FOR FIXING OF LADDERS SHALL BE OF GRADE SS 316.
 4. MOORING RINGS AND "U" BOLTS SHALL BE OF GRADE SS 316.
 5. THE DETAILS OF CRANE RAIL AND ITS FIXTURES SHOWN ARE ONLY INDICATIVE. THE DETAILS OF RAIL FIXING, RAIL JOINT & SIZE AND TYPE OF RAILS SHALL BE AS PER THE SPECIFICATION OF CRANE MANUFACTURER.
 6. ALL STEEL SECTIONS EXCEPT STAINLESS STEEL TO BE GALVANISED



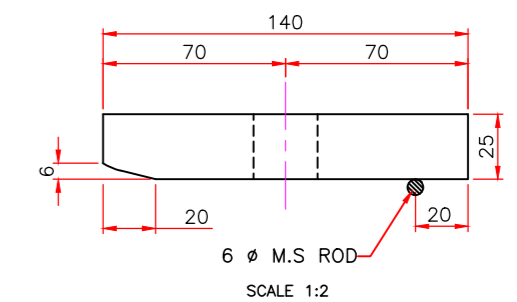
TYP DETAIL OF RAIL GROOVE
(SCALE 1:5)



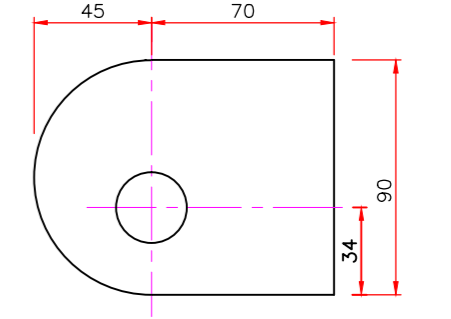
PLAN (SHOWING RAIL JOINT)
(SCALE 1:10)



SECTION D-D
(SCALE 1:5)

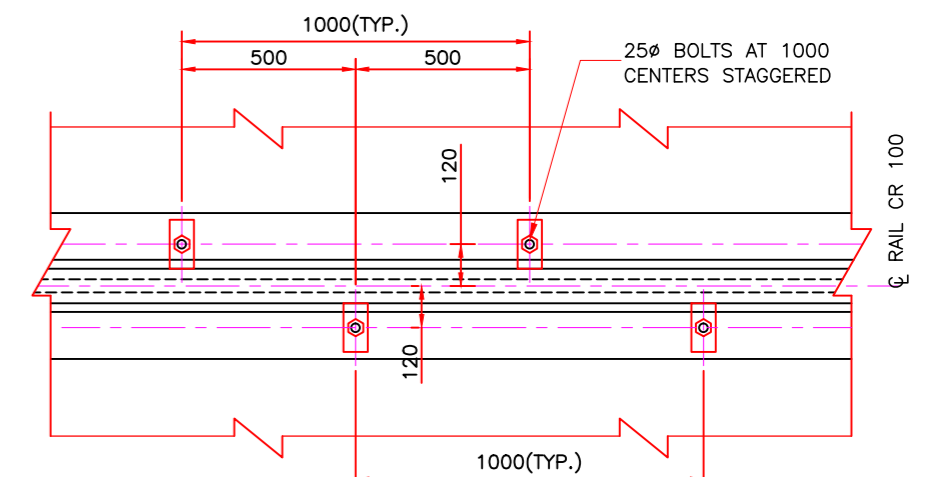


TYP DETAIL OF RAIL GROOVE
(SCALE 1:2)

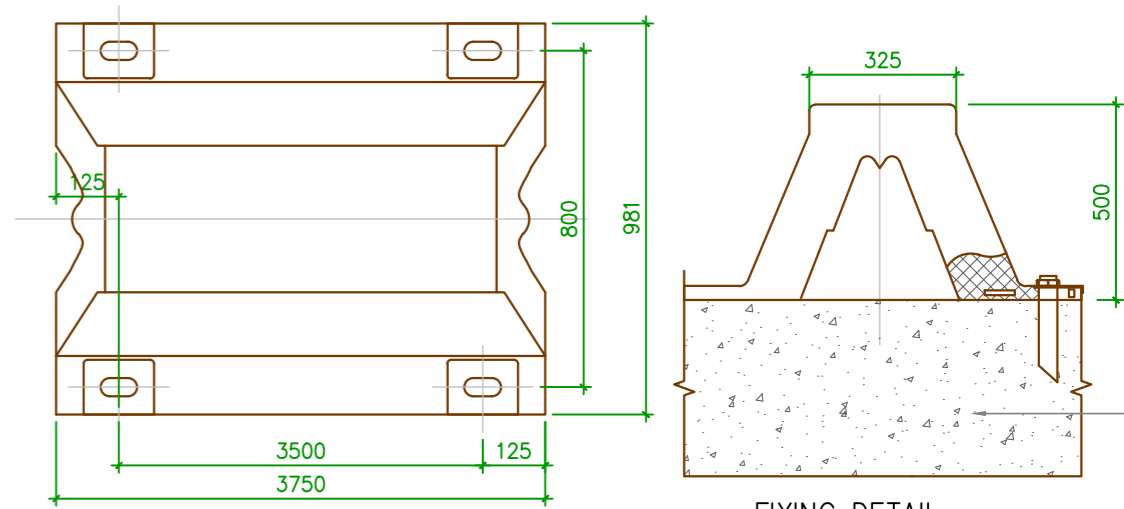


TYP DETAIL OF RAIL GROOVE
(SCALE 1:2)

TO BE TACK WELDED TO BASE PLATE AFTER ALIGNMENT OF RAIL.



PLAN (SHOWING RAIL FIXING)
(SCALE 1:15)



PLAN (FENDER)
(SCALE 1:5)

FIXING DETAIL
(SCALE 1:5)

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRE
 2. ALL LEVELS ARE IN METRE WITH & ARE RESPECT TO MSL

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: HOWE

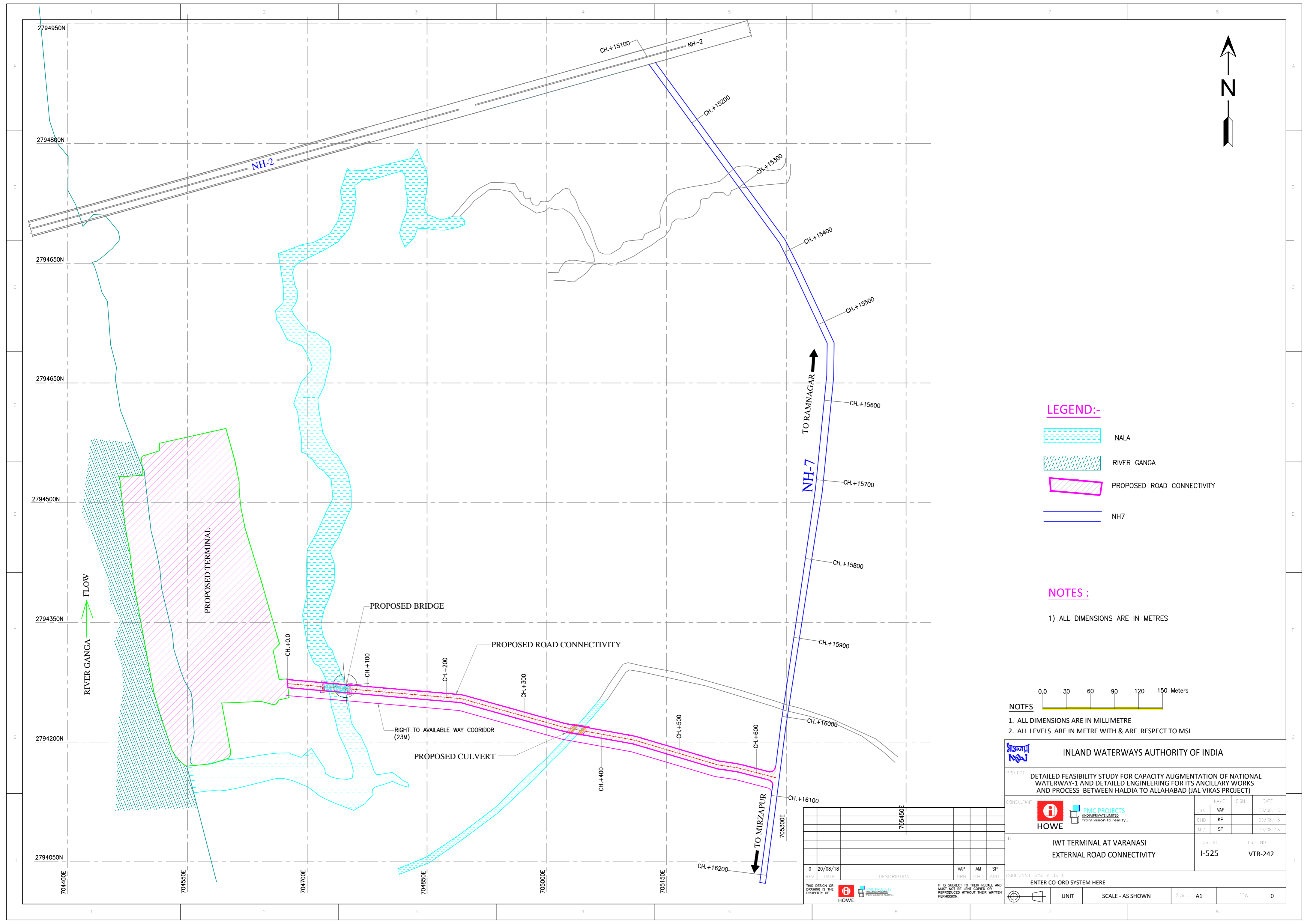
III: IWT TERMINAL AT VARANASI
BERTHING APPURTENANCES DETAILS (PHASE-1A)

JOB NO. I-525
D/C. NO. VTR-241





REV	DATE	DESCRIPTION	VAP	AM	SP
0	16/01/17				

ENTER CO-ORD SYSTEM HERE

UNIT: SCALE - AS SHOWN
Size: A1
REV: 0

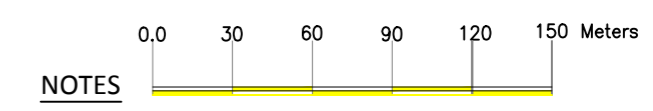


LEGEND:-

-  NALA
-  RIVER GANGA
-  PROPOSED ROAD CONNECTIVITY
-  NH7





NOTES :

- 1) ALL DIMENSIONS ARE IN METRES



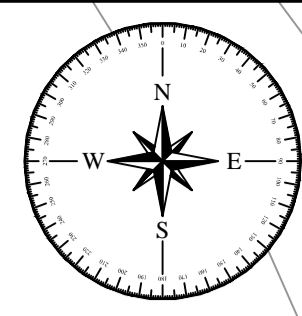
NOTES

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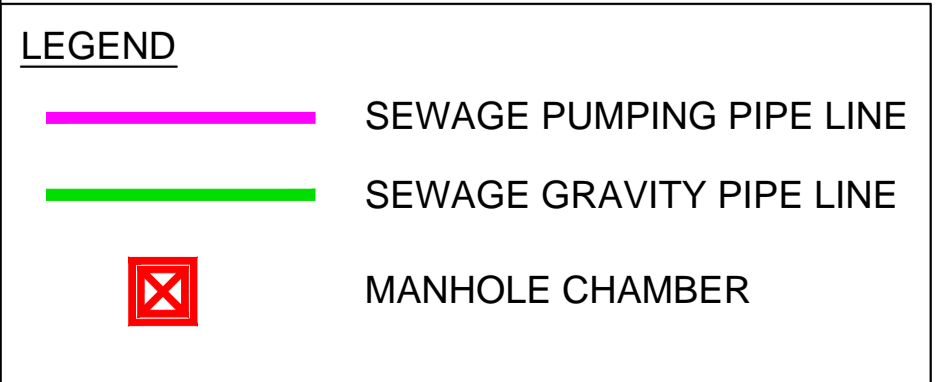
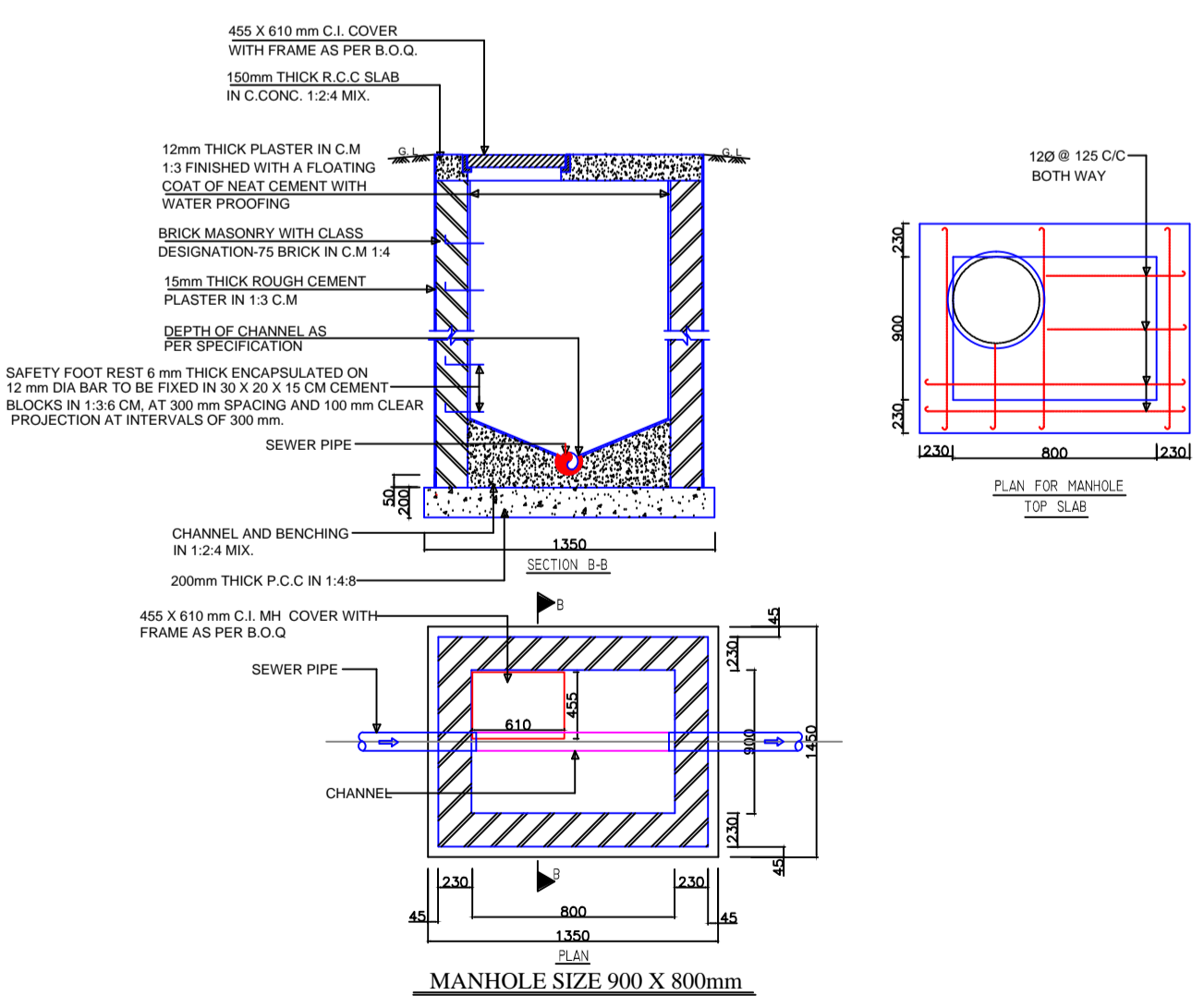
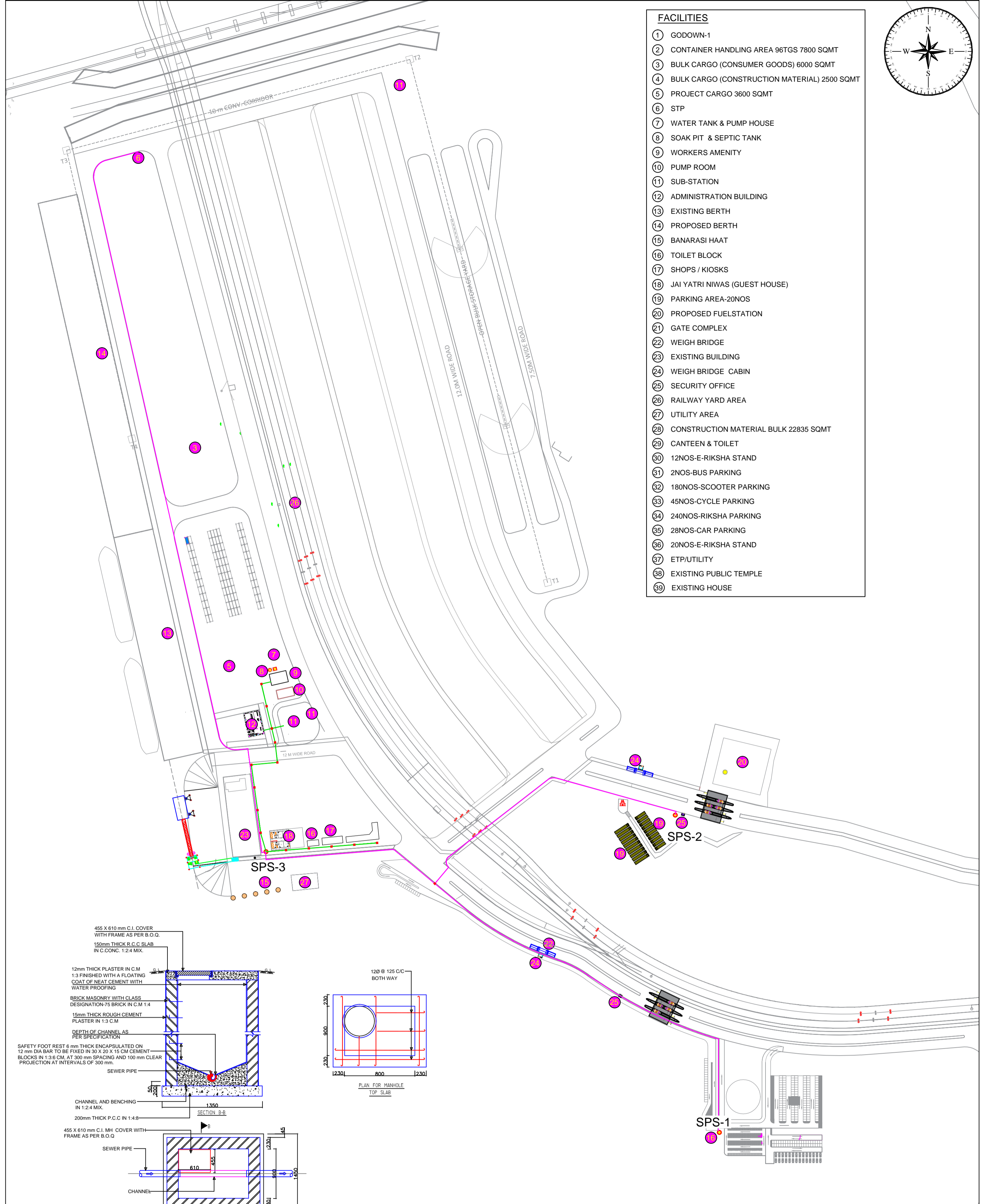
 INLAND WATERWAYS AUTHORITY OF INDIA			
PROJECT DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)			
CONSULTANT  HOWE  PMC PROJECTS <small>INDIA PRIVATE LIMITED</small> from vision to reality...		DATE 22/08/18	SHEET NO. 23/08/18
III IWT TERMINAL AT VARANASI EXTERNAL ROAD CONNECTIVITY		JOB NO. I-525	DPC. NO. VTR-242
GEOGRAPHIC SYSTEM: JZS3 ENTER CO-ORD SYSTEM HERE			
UNIT 	SCALE - AS SHOWN	Size : A1	REV. 0

REV.	DATE	DESCRIPTION	VAP	AM	SP
0	20/08/18				

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- FACILITIES**
- ① GODOWN-1
 - ② CONTAINER HANDLING AREA 96TGS 7800 SQMT
 - ③ BULK CARGO (CONSUMER GOODS) 6000 SQMT
 - ④ BULK CARGO (CONSTRUCTION MATERIAL) 2500 SQMT
 - ⑤ PROJECT CARGO 3600 SQMT
 - ⑥ STP
 - ⑦ WATER TANK & PUMP HOUSE
 - ⑧ SOAK PIT & SEPTIC TANK
 - ⑨ WORKERS AMENITY
 - ⑩ PUMP ROOM
 - ⑪ SUB-STATION
 - ⑫ ADMINISTRATION BUILDING
 - ⑬ EXISTING BERTH
 - ⑭ PROPOSED BERTH
 - ⑮ BANARASI HAAT
 - ⑯ TOILET BLOCK
 - ⑰ SHOPS / KIOSKS
 - ⑱ JAI YATRI NIWAS (GUEST HOUSE)
 - ⑲ PARKING AREA-20NOS
 - ⑳ PROPOSED FUELSTATION
 - ㉑ GATE COMPLEX
 - ㉒ WEIGH BRIDGE
 - ㉓ EXISTING BUILDING
 - ㉔ WEIGH BRIDGE CABIN
 - ㉕ SECURITY OFFICE
 - ㉖ RAILWAY YARD AREA
 - ㉗ UTILITY AREA
 - ㉘ CONSTRUCTION MATERIAL BULK 22835 SQMT
 - ㉙ CANTEEN & TOILET
 - ㉚ 12NOS-E-RIKSHA STAND
 - ㉛ 2NOS-BUS PARKING
 - ㉜ 180NOS-SCOOTER PARKING
 - ㉝ 45NOS-CYCLE PARKING
 - ㉞ 240NOS-RIKSHA PARKING
 - ㉟ 28NOS-CAR PARKING
 - ㊱ 20NOS-E-RIKSHA STAND
 - ㊲ ETP/UTILITY
 - ㊳ EXISTING PUBLIC TEMPLE
 - ㊴ EXISTING HOUSE



NOTES:

1. ALL DIMENSIONS ARE IN METRE

REV	DATE	DESCRIPTION	VSP	CHD	SP	APD
0	27/08/18					

INLAND WATERWAYS AUTHORITY OF INDIA

PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)

CONSULTANT: **HOWE** (INDIA PRIVATE LIMITED)

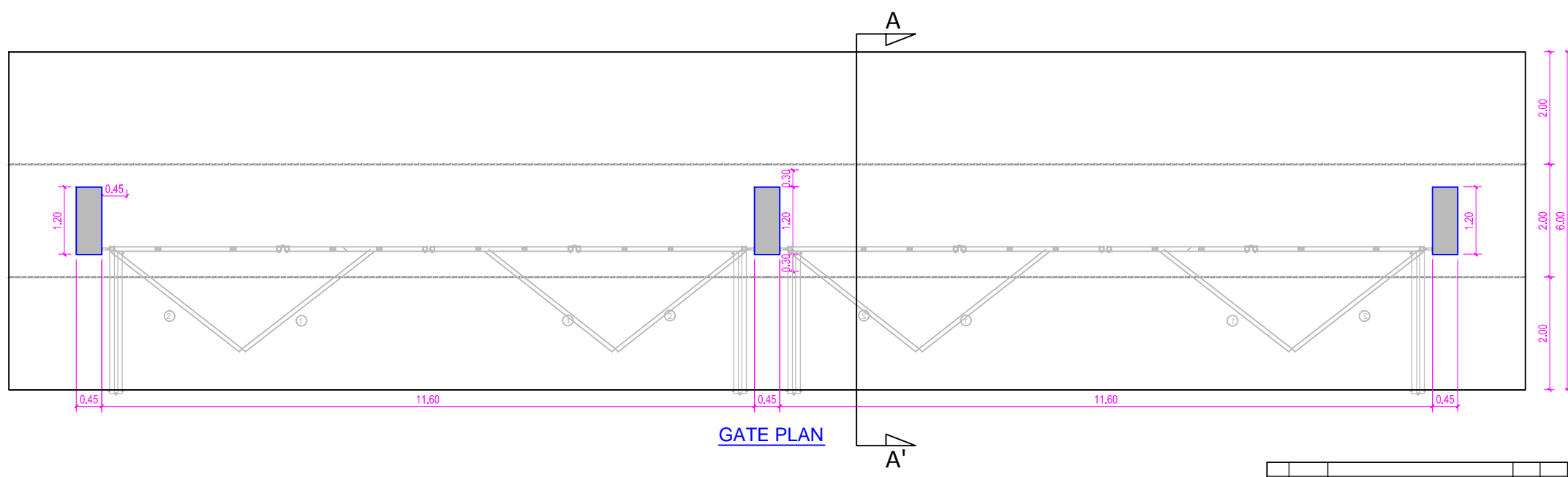
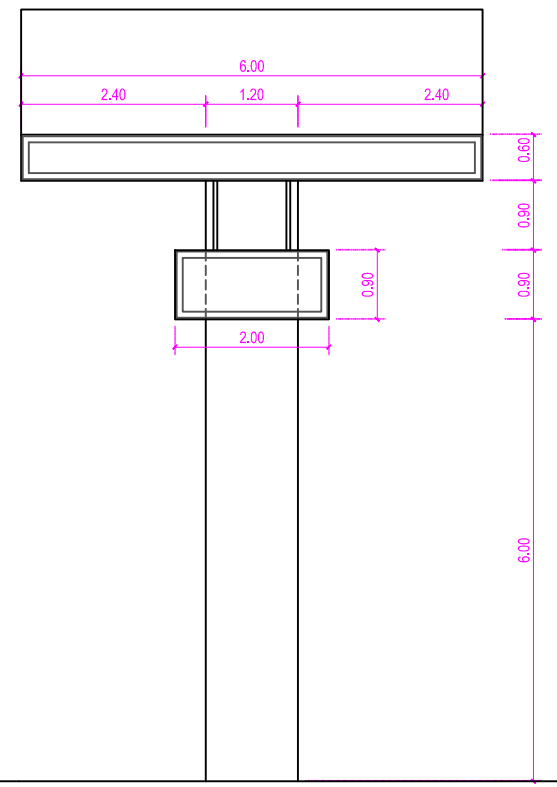
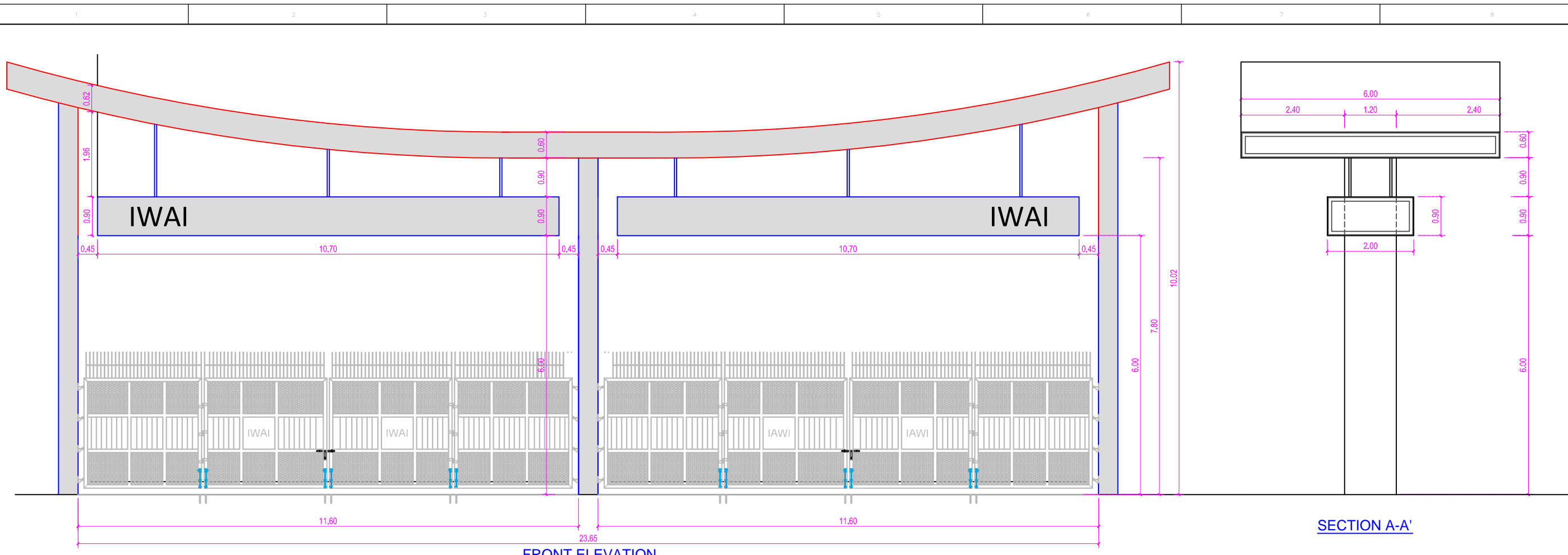
NAME	SIGN	DATE
DRN	VSP	27/08/18
CHD	SP	27/08/18
APD	SP	27/08/18

TITLE: **IWT TERMINAL AT VARANASI SEWERAGE COLLECTION SYSTEM**

JOB. NO. I-525 DRG. NO. VTR-243

COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE

UNIT: SCALE - AS SHOWN Size: A1 REV. 0



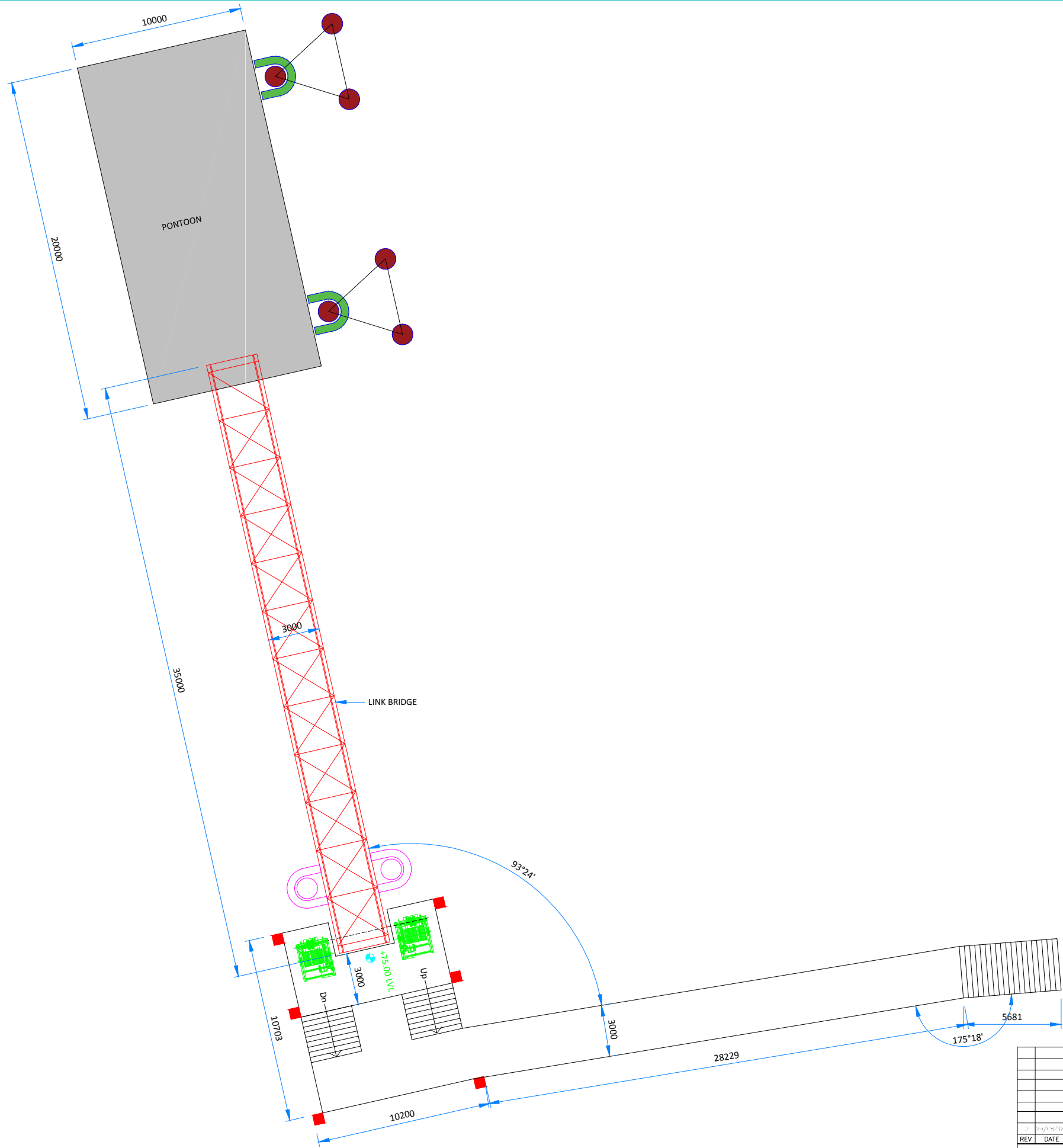
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRE

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>			
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>			
<p>HOWE</p>	<p>PMC PROJECTS INDIA PRIVATE LIMITED From vision to reality...</p>	<p>DATE: 29/08/18</p>	<p>SCALE: 1:100</p>
<p>TITLE: IWT TERMINAL AT VARANASI GATE PLAN, ELEVATION & CROSS SECTION</p>		<p>JOB NO.: I-525</p>	<p>DES. NO.: VTR-244</p>
<p>ENTER CO-ORD SYSTEM HERE</p>			
<p>UNIT: SCALE - AS SHOWN</p>	<p>SCALE: A1</p>	<p>DATE: 29/08/18</p>	<p>NO.: 0</p>

REV	DATE	DESCRIPTION	VP	AM	SP
0	29/08/18				

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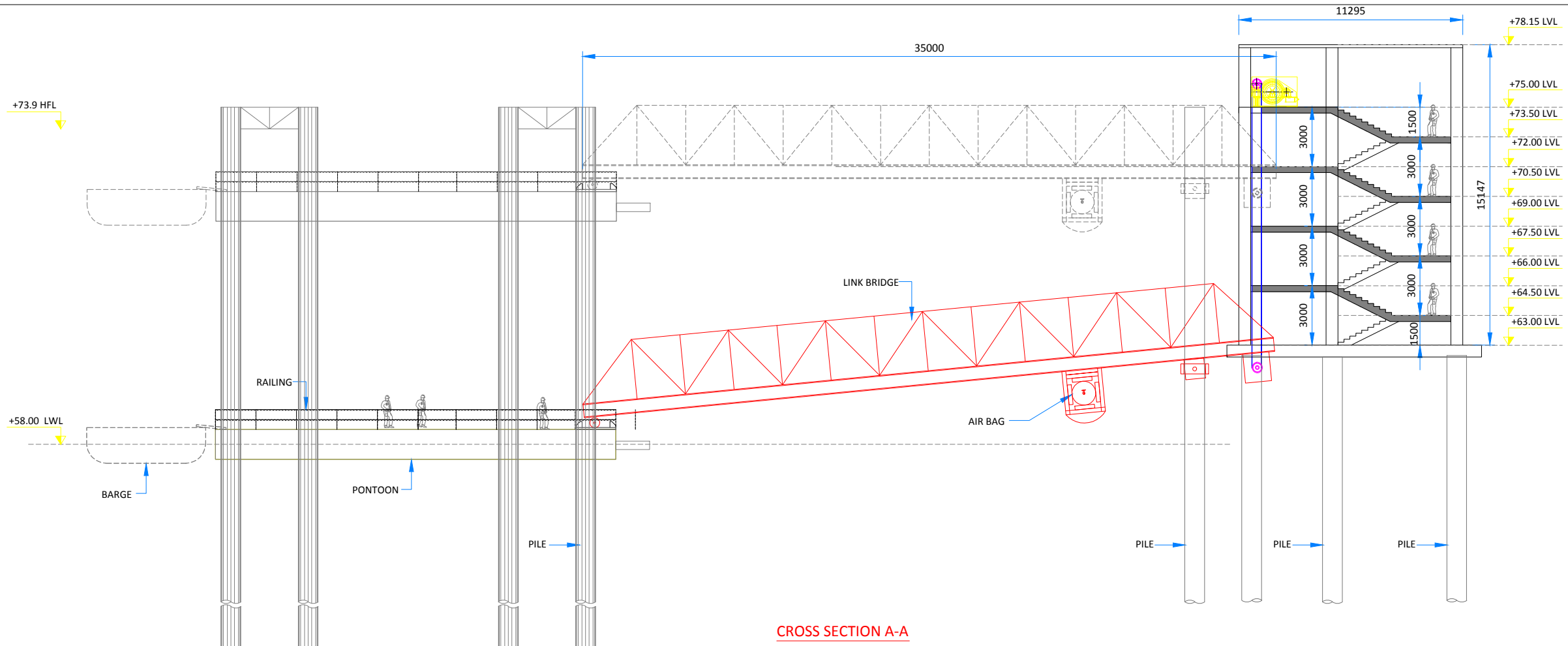
PLAN AT EL+72.0M LEVEL

NOTES:

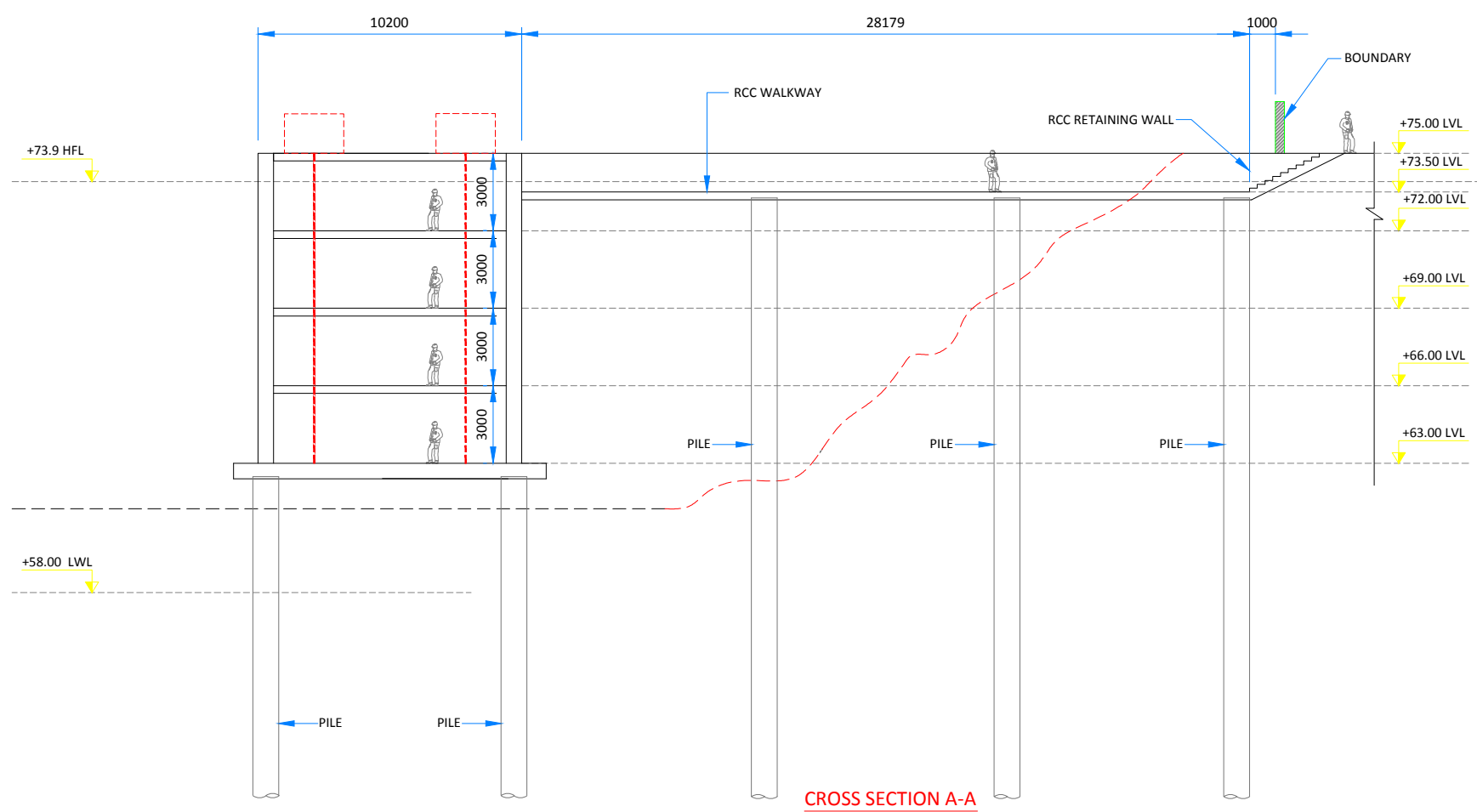
1. ALL DIMENSIONS ARE IN METRE

<p>INLAND WATERWAYS AUTHORITY OF INDIA</p>																			
<p>PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)</p>																			
<p>CONSULTANT:</p>		<table border="1"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRN</td> <td>SD</td> <td>29/08/18</td> </tr> <tr> <td>CHD</td> <td>SD</td> <td>29/08/18</td> </tr> <tr> <td>APD</td> <td>SD</td> <td>29/08/18</td> </tr> </table>		NAME	SIGN	DATE	DRN	SD	29/08/18	CHD	SD	29/08/18	APD	SD	29/08/18				
NAME	SIGN	DATE																	
DRN	SD	29/08/18																	
CHD	SD	29/08/18																	
APD	SD	29/08/18																	
<p>TITLE:</p> <p>IWT TERMINAL AT VARANASI PONTOON LAYOUT</p>		<table border="1"> <tr> <th>JOB. NO.</th> <th>DRG. NO.</th> </tr> <tr> <td>I-525</td> <td>VTR-245</td> </tr> </table>		JOB. NO.	DRG. NO.	I-525	VTR-245												
JOB. NO.	DRG. NO.																		
I-525	VTR-245																		
<p>COORDINATE SYSTEM USED: ENTER CO-ORD SYSTEM HERE</p>																			
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRN</th> <th>CHD</th> <th>APD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		REV	DATE	DESCRIPTION	DRN	CHD	APD							<table border="1"> <tr> <td>UNIT</td> <td>SCALE - AS SHOWN</td> <td>Size : A1</td> <td>REV. 0</td> </tr> </table>		UNIT	SCALE - AS SHOWN	Size : A1	REV. 0
REV	DATE	DESCRIPTION	DRN	CHD	APD														
UNIT	SCALE - AS SHOWN	Size : A1	REV. 0																

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CROSS SECTION A-A



CROSS SECTION A-A

NOTES:

1. ALL DIMENSIONS ARE IN METRE

REV	DATE	DESCRIPTION	DRN	CHD	APD

INLAND WATERWAYS AUTHORITY OF INDIA				
PROJECT: DETAILED FEASIBILITY STUDY FOR CAPACITY AUGMENTATION OF NATIONAL WATERWAY-1 AND DETAILED ENGINEERING FOR ITS ANCILLARY WORKS AND PROCESS BETWEEN HALDIA TO ALLAHABAD (JAL VIKAS PROJECT)				
CONSULTANT:		NAME	SIGN	DATE
		DRN		29/08/18
		CHD		29/08/18
		APD		29/08/18
TITLE:	IWT TERMINAL AT VARANASI PONTOON CROSS SECTION	JOB. NO.	DRG. NO.	
		I-525	VTR-246	
COORDINATE SYSTEM USED:		ENTER CO-ORD SYSTEM HERE		
UNIT	SCALE - AS SHOWN	Size : A1	REV.	0

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