



डेडीकेटेड फ्रेट कोरीडोर

DESIGN AND CONSTRUCTION OF CIVIL, STRUCTURES AND TRACK WORKS, INVOLVING FORMATION IN EMBANKMENT /CUTTING, BALLAST ON FORMATION, TRACK WORKS, BRIDGES, STRUCTURES, BUILDINGS, YARDS & INTEGRATION WITH INDIAN RAILWAY'S EXISTING RAILWAY SYSTEM AND TESTING & COMMISSIONING ON DESIGN-BUILD LUMP SUM BASIS OF KHURJA-PILKHANI SECTION (APPROXIMATELY 222 ROUTE KM OF SINGLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR

**CIVIL, STRUCTURES AND TRACK WORKS**

Contract Package: 303

ICB No. HQ/EN/EC/D-B/KHURJA PILKHANI SECTION

**PART - 4 - REFERENCE DOCUMENT**

OTHER DRAWINGS - VOLUME - 5.3

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.500 (SRE-UMB)

**OTHER DRAWINGS**

EMPLOYER  
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED  
(A GOVERNMENT OF INDIA ENTERPRISES)  
MINISTRY OF RAILWAYS  
COUNTRY : INDIA

CONTENTS OTHER DRAWINGS (CONTRACT PACKAGE 303)

CONTENTS OTHER DRAWINGS (CONTRACT PACKAGE 303)

SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS
1	TYPICAL GAD FOR BOUNDARY WALL	DFCC/BOUNDARY WALL/TYP-001	R0						
2	TYPICAL GAD FOR STATION BUILDING FOR CROSSING STATION (GF)	GC/DFCC/CS/201/REV.1	R1						
3	TYPICAL GAD FOR STATION BUILDING FOR CROSSING STATION (FF & RL)	GC/DFCC/CS/202/REV.1	R1						
4	TYPICAL GAD FOR STATION BUILDING FOR CROSSING STATION (ELEVATION)	GC/DFCC/CS/203/REV.1	R1						
5	TYPICAL GAD FOR LC GATE LODGE	GC/DFCC/GL/505/R1	R1						
6	TYPICAL GAD FOR INTEGRATED MAINTENANCE DEPOT (IMD)	GC/DFCC/IMD/301	R0						
7	TYPICAL GAD FOR INTEGRATED MAINTENANCE SUB DEPOT (IMSD)	GC/DFCC/IMSD/401	R0						
8	TYPICAL DRAWING FOR SEE THROUGH FENCING	DFC/2015/FEN/TYP	R0						
9	TYPICAL GAD FOR TYPE 'A' QUARTER	GC/DFCC/QRTS/701	R0						
10	TYPICAL GAD FOR TYPE 'B' QUARTER	GC/DFCC/QRTS/702	R0						
11	TYPICAL GAD FOR TYPE 'C' QUARTER	GC/DFCC/QRTS/703	R0						
12	TYPICAL GAD FOR EARTHING ARRANGEMENT ON BRIDGES	HQ/EL/OHE/Pl.1/Earthing	R0						
13	TYPICAL DRAWING FOR FIXING OF OHE MAST ON BRIDGE PIER	HQ/EL/OHE/Pl.1/Mast	R0						
14	TYPICAL DRAWING MINIMUM BALLAST PROFILE B.G. FOR LOOPS FOR STRAIGHTS, CURVES	DFC/2015/BF/01	R0						
15	TYPICAL DRAWING MINIMUM BALLAST PROFILE SINGLE LINE B.G. FOR STRAIGHTS & CURVES	DFC/2015/BF/02	R0						
16	TYPICAL DRAWING FOR TYPE II IR QUARTERS	DCW/CE/P/17/82	R0						
17	TYPICAL DRAWING FOR TYPE III IR QUARTERS	DCW/CE/P/18/82	R0						
18	SITE PLAN OF BHARAT PETROLEUM DEPOT	DFC/2016/BPD	R0						
19									
20									
21									
22									
23									
24									
25									
26									

GENERAL CONSULTANT



AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

**CONTENTS  
OTHER DRAWINGS  
(303)**



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

( A GOVERNMENT OF INDIA ENTERPRISE )

**EASTERN CORRIDOR**

PROJECT

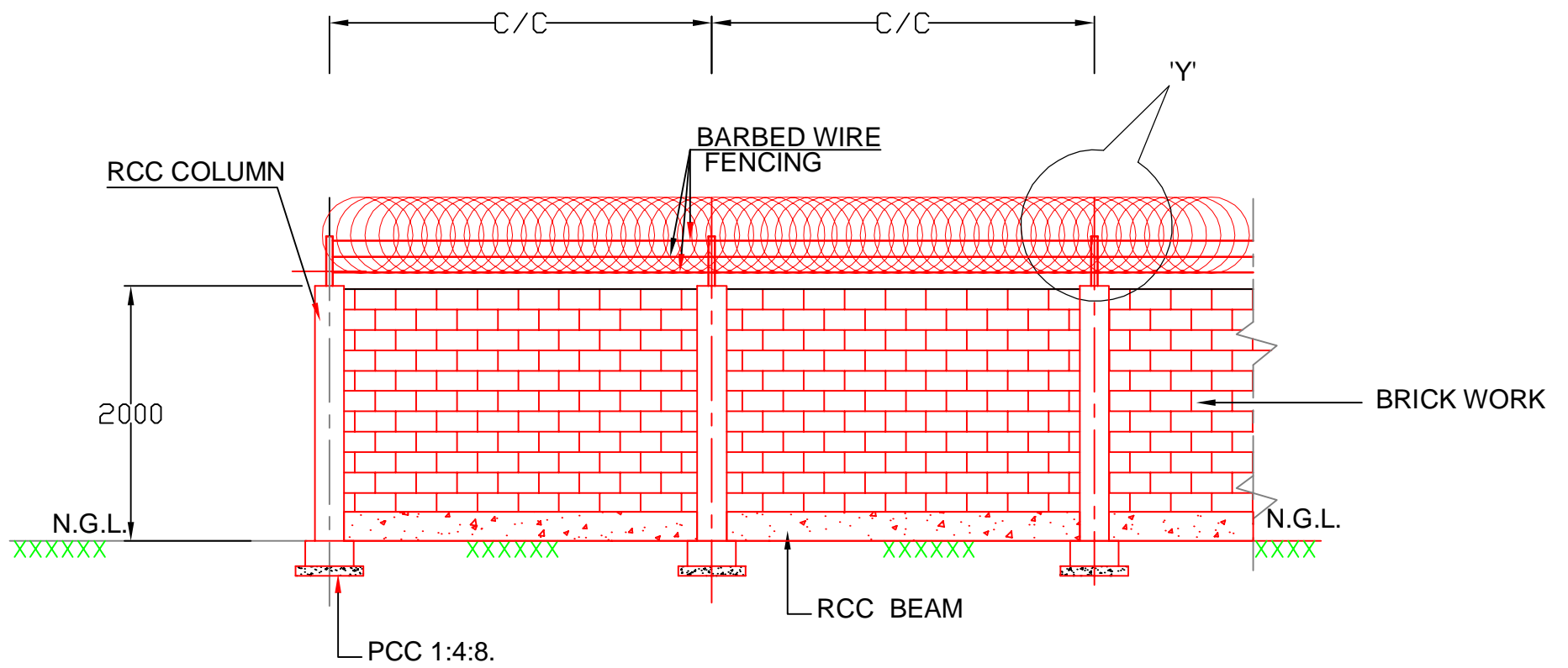
KHURJA TO PILKHANI

# Contract Package: 303

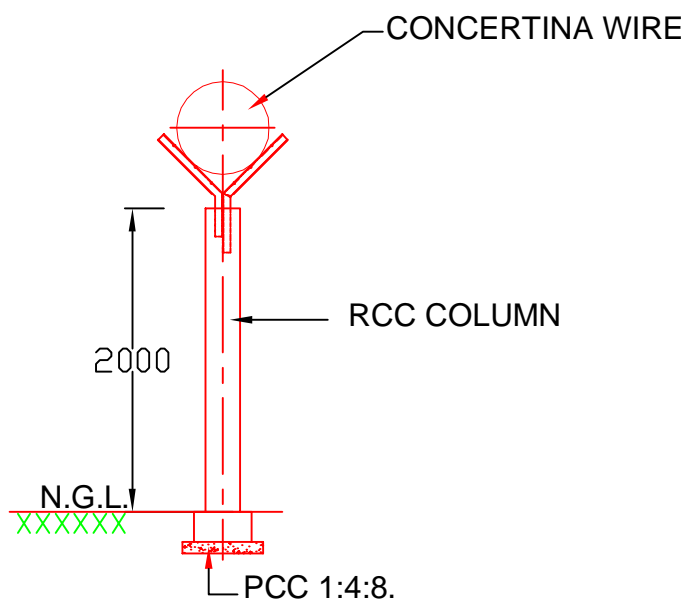
KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

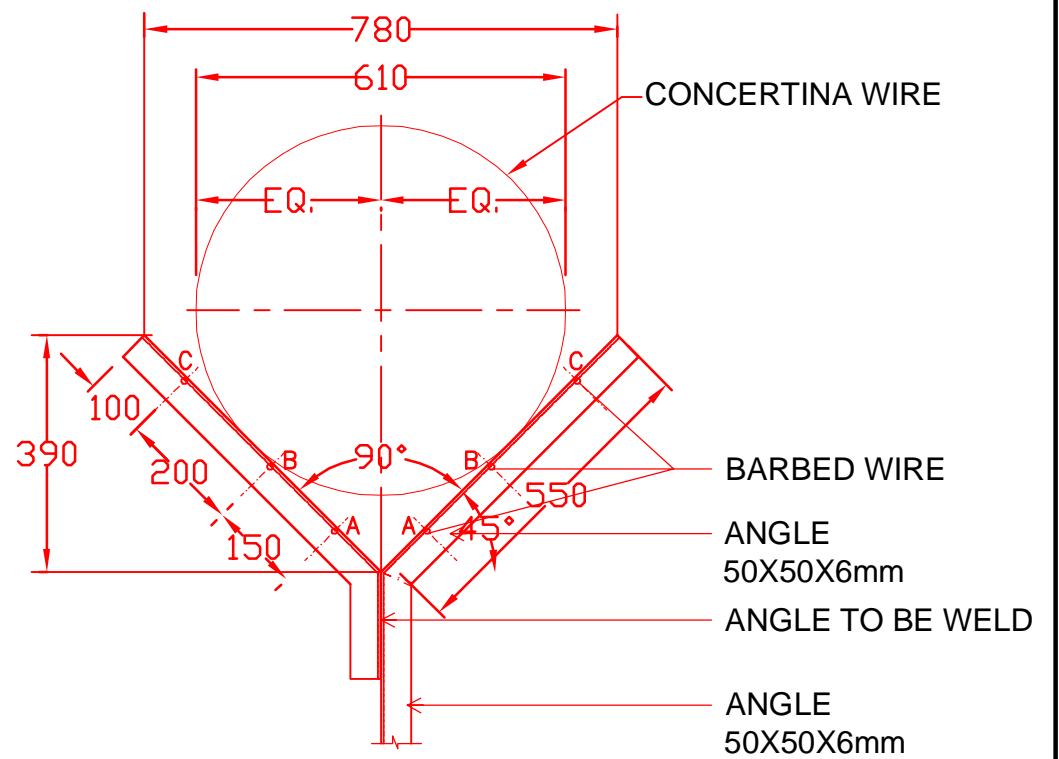
OTHER DRAWINGS



**ELEVATION OF BOUNDARY WALL**



**TYPICAL CROSS SECTION (INDICATIVE)**




**DETAIL AT 'Y'**  
**TYPICAL ARRANGEMENT OF Y - POST**  
**CONCERTINA WIRE 610mm DIA**  
**AND BARBED WIRE**

**INDICATIVE DRAWING**

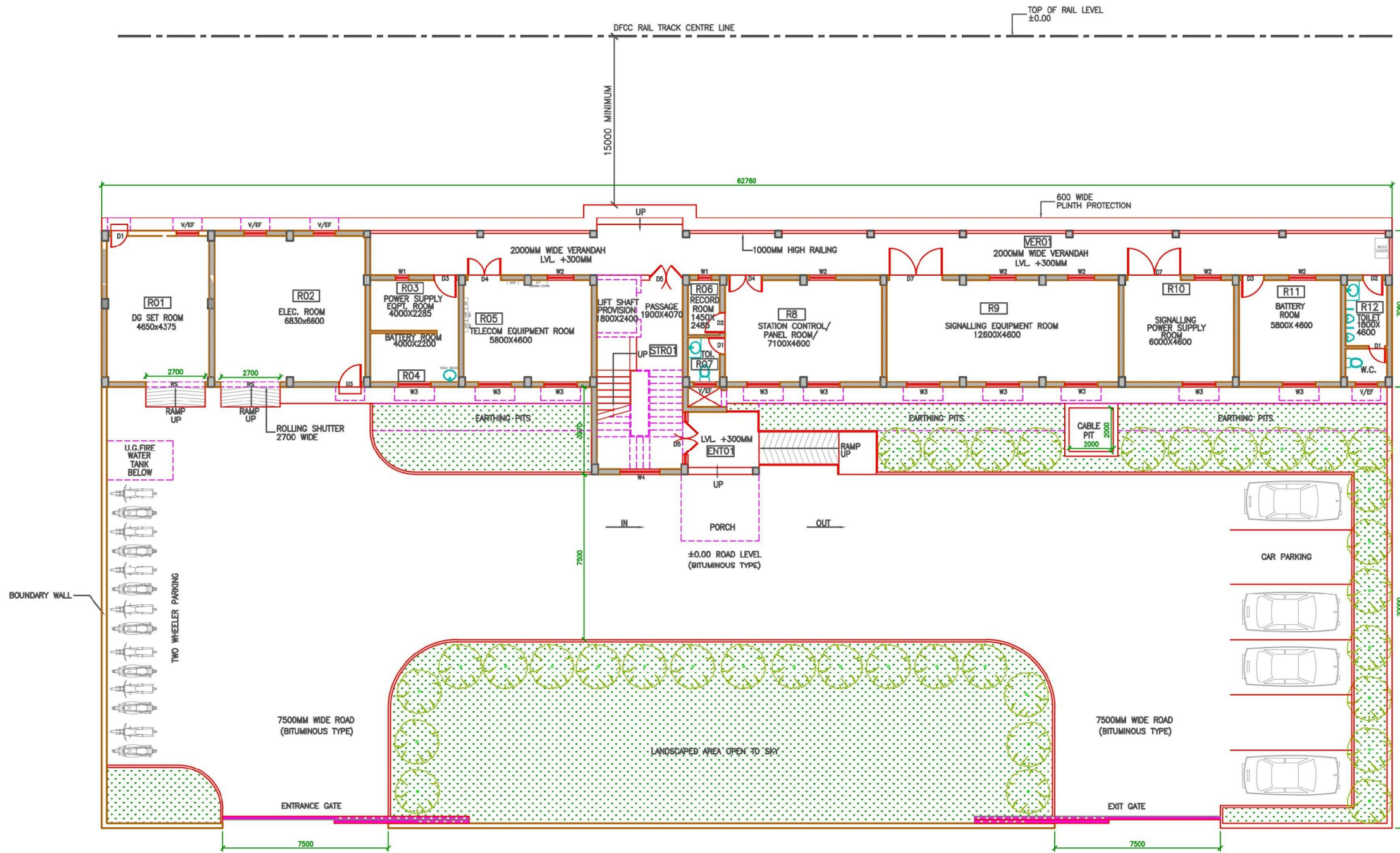
**NOTES:-**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DRAWINGS ARE NOT TO BE SCALED.
3. DEPTH OF FOUNDATION AND C/C OF RCC COLUMN WILL BE DEPEND UPON SITE CONDITION.

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.		
DETAIL TYPICAL GENERAL ARRANGEMENT DRAWING FOR BOUNDARY WALL		
SCALE	N.T.S.	
DRG.NO.	DFCC/BOUNDARY WALL/TYP-001	
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ANNEXURE - J

DOOR / WINDOW SCHEDULE	
NO.	SIZE
D1	750 X 2100
D2	900 X 2100
D3	1000 X 2550
D4	1500 X 2550
D5	1900 X 2550
D6	2300 X 2550
D7	2400 X 2550
W1	600 X 1650 CILL 900
W2	1200 X 1650 CILL 900
W3	1500 X 1650 CILL 900
W4	1800 X 1800 CILL 300
RS1	2700 X 2800 ROLLING SHUTTER
V/EF	1000 X 600 CILL 1500



GROUND FLOOR PLAN  
SCALE 1:100

INDICATIVE DRAWING

GENERAL CONSULTANT



AECOM Asia Co. Ltd.  
9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

STATION BUILDING FOR  
CROSSING STATION  
GROUND FLOOR PLAN

Drg. No. - GC/DFCC/CS/201/REV.1



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DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

( A GOVERNMENT OF INDIA ENTERPRISE )

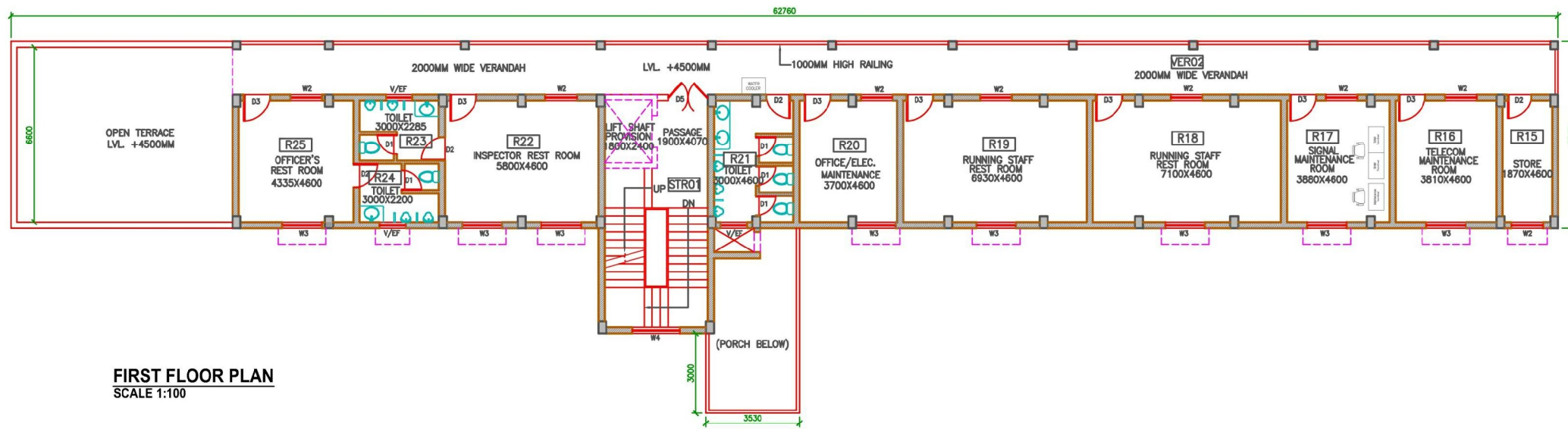
EASTERN CORRIDOR

PROJECT

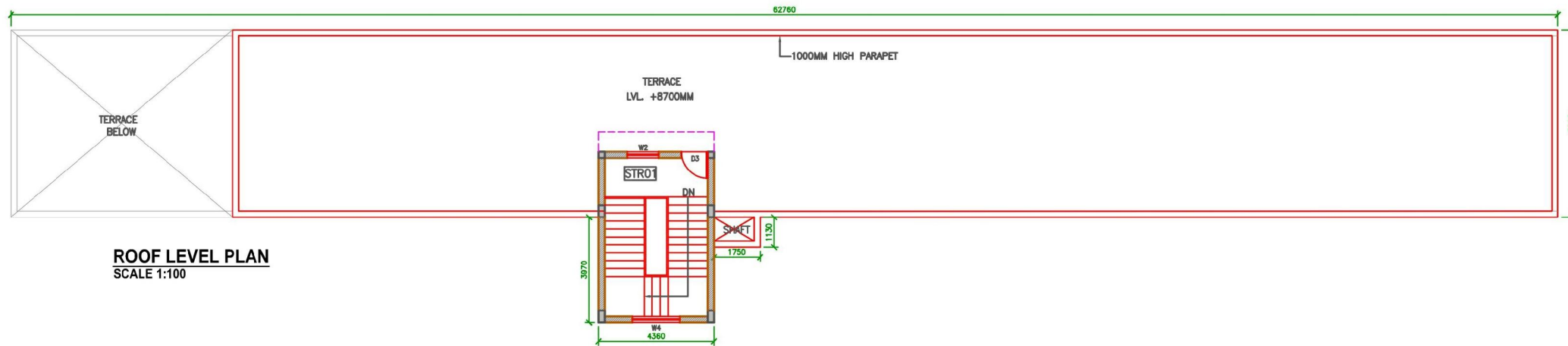
KHURJA TO PILKHANI

ANNEXURE - K

DOOR / WINDOW SCHEDULE	
NO.	SIZE
D1	750 X 2100
D2	900 X 2100
D3	1000 X 2550
D4	1500 X 2550
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W3	1500 X 1650 CILL 900
W4	1800 X 1800 CILL 300
RS1	2700 X 2800 ROLLING SHUTTER
V/EF	1000 X 600 CILL 1500



FIRST FLOOR PLAN  
SCALE 1:100



ROOF LEVEL PLAN  
SCALE 1:100

INDICATIVE DRAWING

GENERAL CONSULTANT



AECOM Asia Co. Ltd.  
9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

STATION BUILDING FOR  
CROSSING STATION  
FIRST FLOOR & ROOF LEVELPLAN

Drg. No. - GC/DFCC/CS/202/REV.1



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DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

( A GOVERNMENT OF INDIA ENTERPRISE )

EASTERN CORRIDOR

PROJECT

KHURJA TO PILKHANI



**FRONT ELEVATION (FROM APPROACH ROAD)**  
SCALE 1:100



**REAR ELEVATION (FROM TRACK SIDE)**  
SCALE 1:100

INDICATIVE DRAWING

GENERAL CONSULTANT



AECOM Asia Co. Ltd.  
9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

STATION BUILDING FOR  
CROSSING STATION  
FRONT & REAR ELEVATION PLAN

Drg. No. - GC/DFCC/CS/203/REV.1



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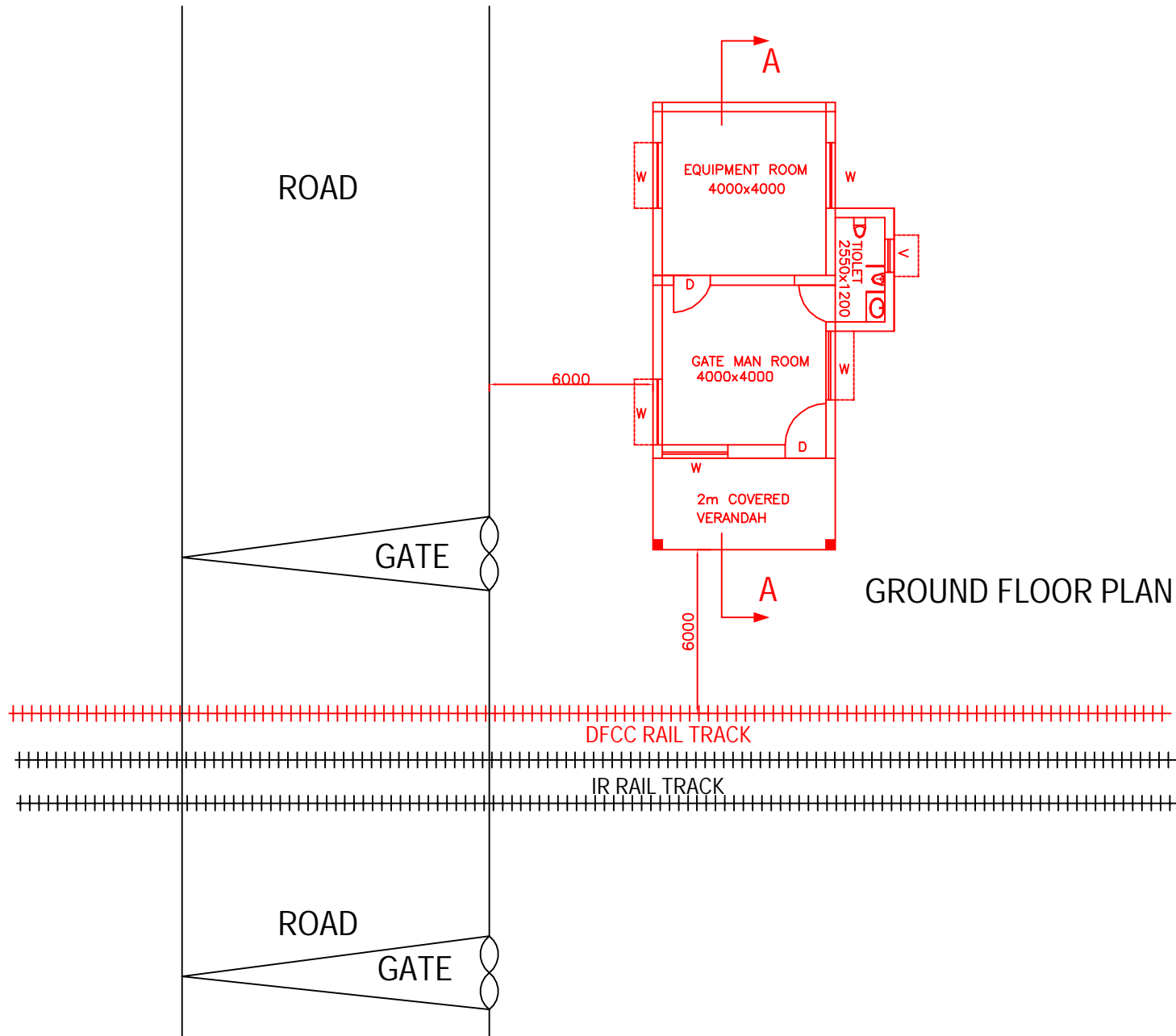
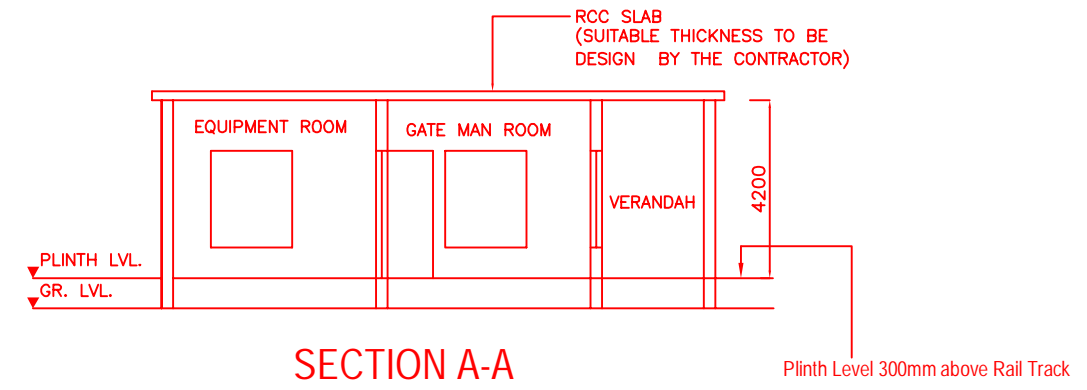
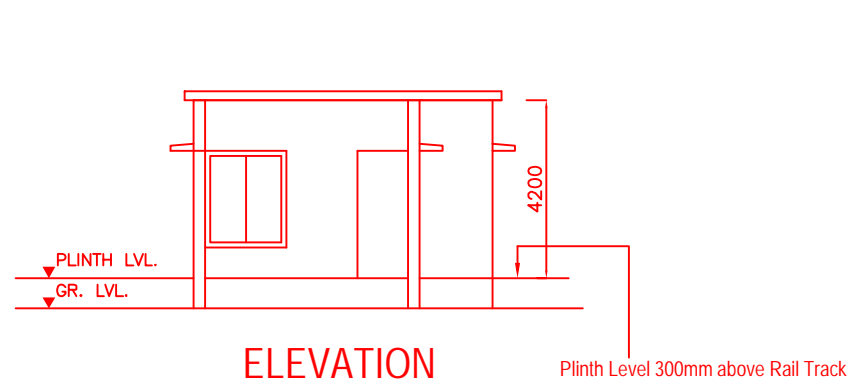
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

( A GOVERNMENT OF INDIA ENTERPRISE )

**EASTERN CORRIDOR**


PROJECT

KHURJA TO PILKHANI

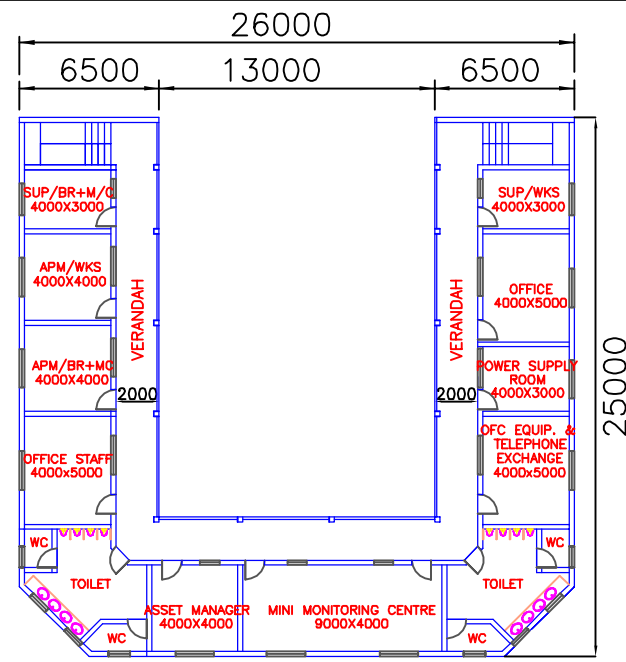


1. LOCATION SHALL BE FINALISED BY THE EMPLOYER IN AND CONSULTATION WITH NORTHERN RAILWAYS.
2. THIS DRAWING IS TENTATIVE, GOOD FOR CONSTRUCTION DRAWINGS SHALL BE AS APPROVED BY NORTHERN RAILWAYS.
3. Electrification of Gate Lodges including provision of fittings and any cabling (internal and external) shall also be done by the Contractor.

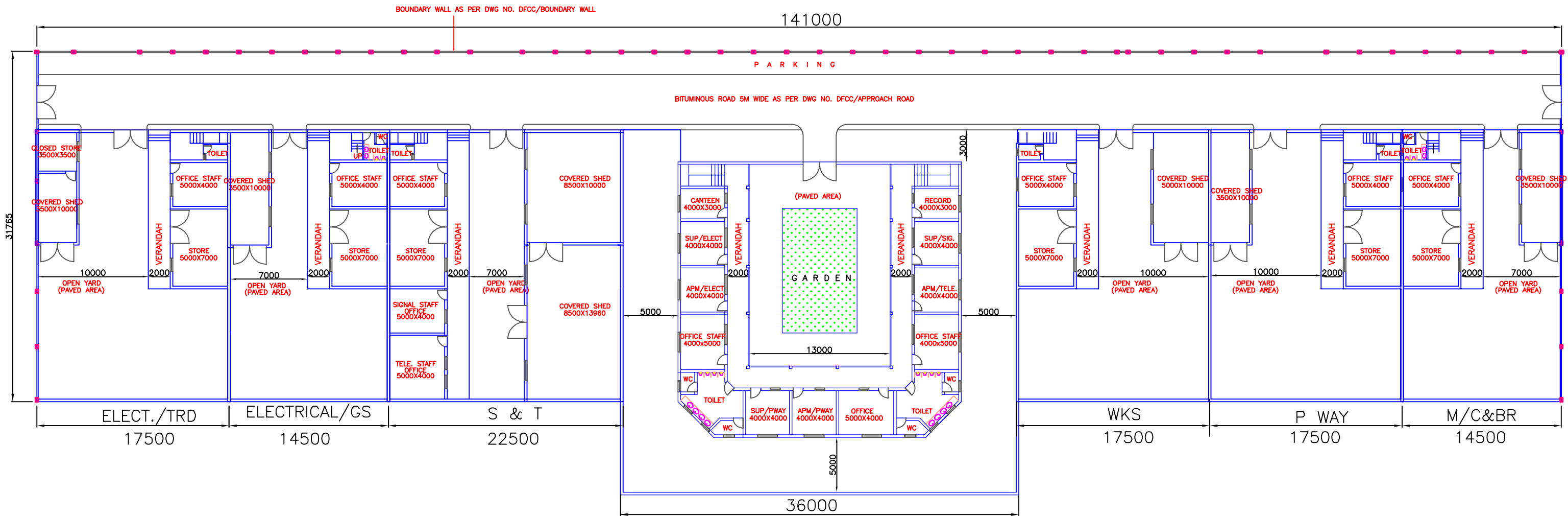
**INDICATIVE DRAWING**

<p><b>GENERAL CONSULTANT</b></p> <p><b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA</p>	<p><b>TITLE</b></p> <p><b>PROPOSED TYPICAL GAD FOR LC GATE LODGE</b></p>	<p> DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)</p> <p><b>EASTERN CORRIDOR</b></p>
<p>5</p>	<p>Drg. No. - GC/DFCC/GL/505/R1</p>	<p>PROJECT <b>KHURJA TO PILKHANI</b></p>





OFFICES (FIRST FLOOR PLAN)



OFFICES (GROUND FLOOR PLAN)

INDICATIVE DRAWING

GENERAL CONSULTANT



AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

INTEGRATED MAINTENANCE  
DEPOT (IMD)  
GROUND & FIRST FLOOR PLAN



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DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

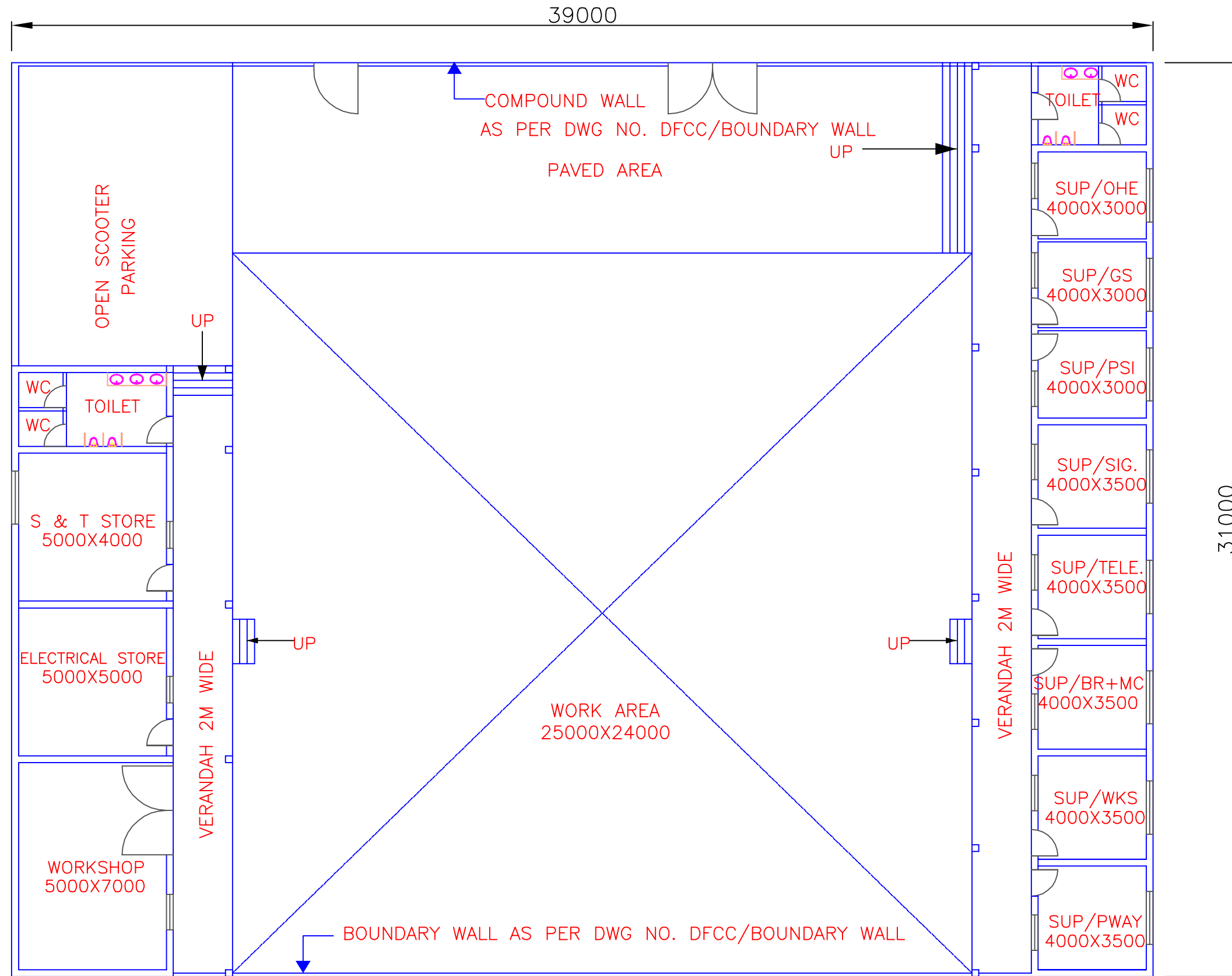
(A GOVERNMENT OF INDIA ENTERPRISE)

**EASTERN CORRIDOR**

Drg. No. - GC/DFCC/IMD/301

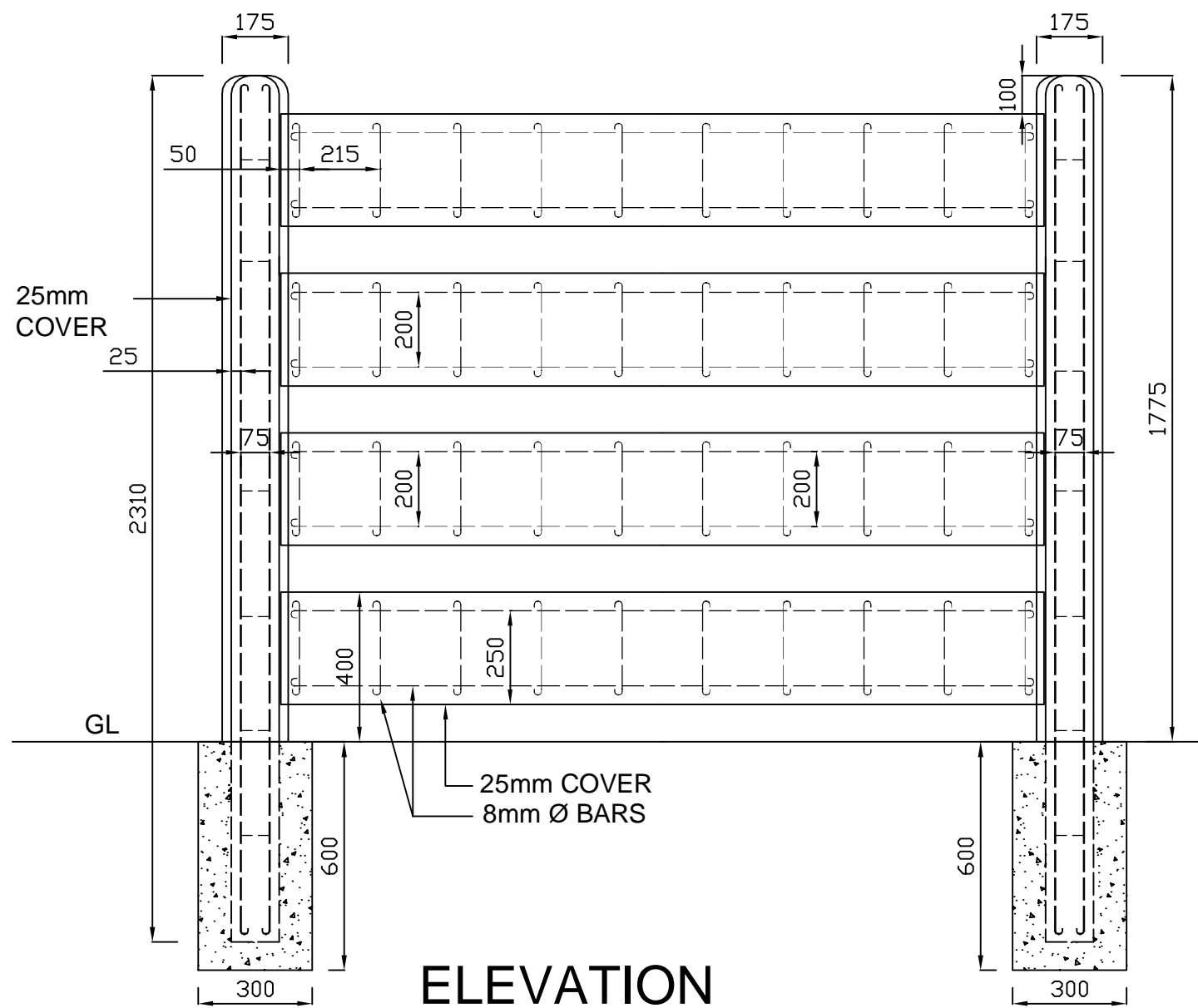
PROJECT

KHURJA TO PILKHANI

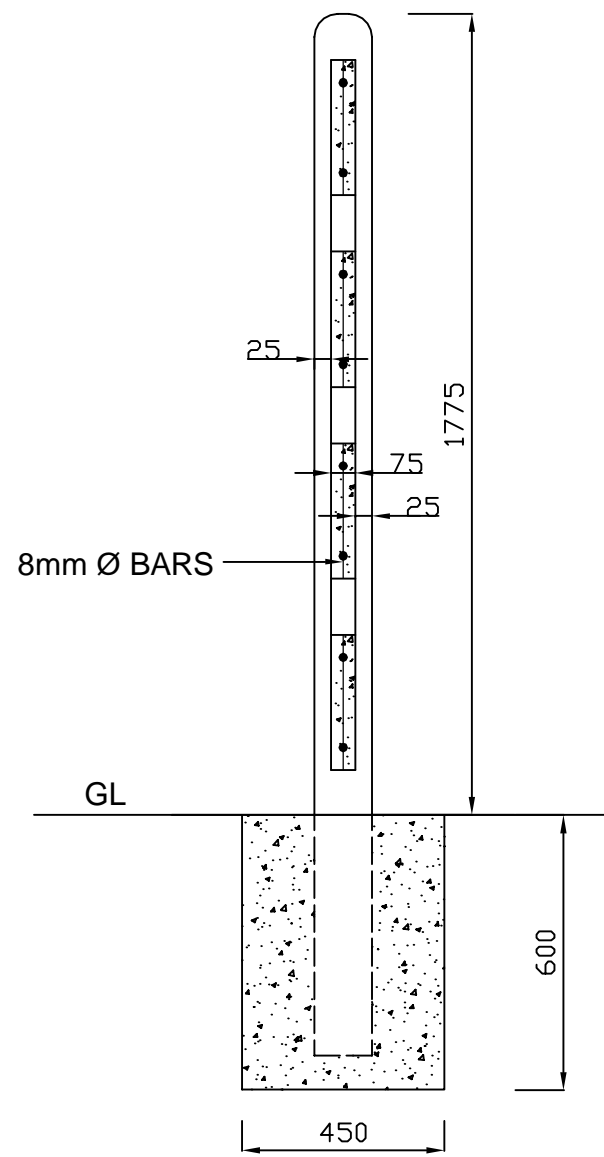


INDICATIVE DRAWING

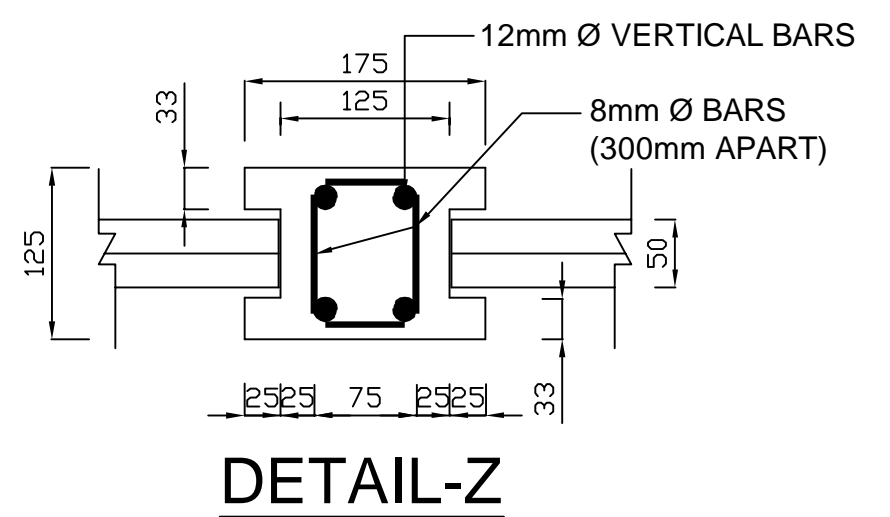
<p><b>GENERAL CONSULTANT</b></p> <p><b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA</p>	<p><b>TITLE</b></p> <p>INTEGRATED MAINTENANCE SUB DEPOT (IMSD) GROUND FLOOR PLAN</p>	<p><b>DFCC</b> DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)</p> <p><b>EASTERN CORRIDOR</b></p> <p>PROJECT KHURJA TO PILKHANI</p>
7	Drg. No. - GC/DFCC/IMSD/401	



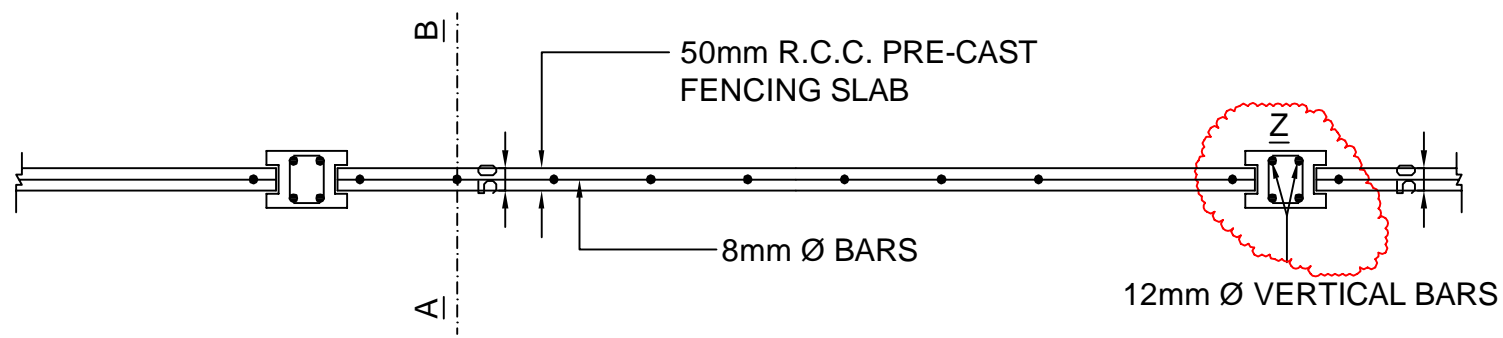
**ELEVATION**



**SECTION A-B**



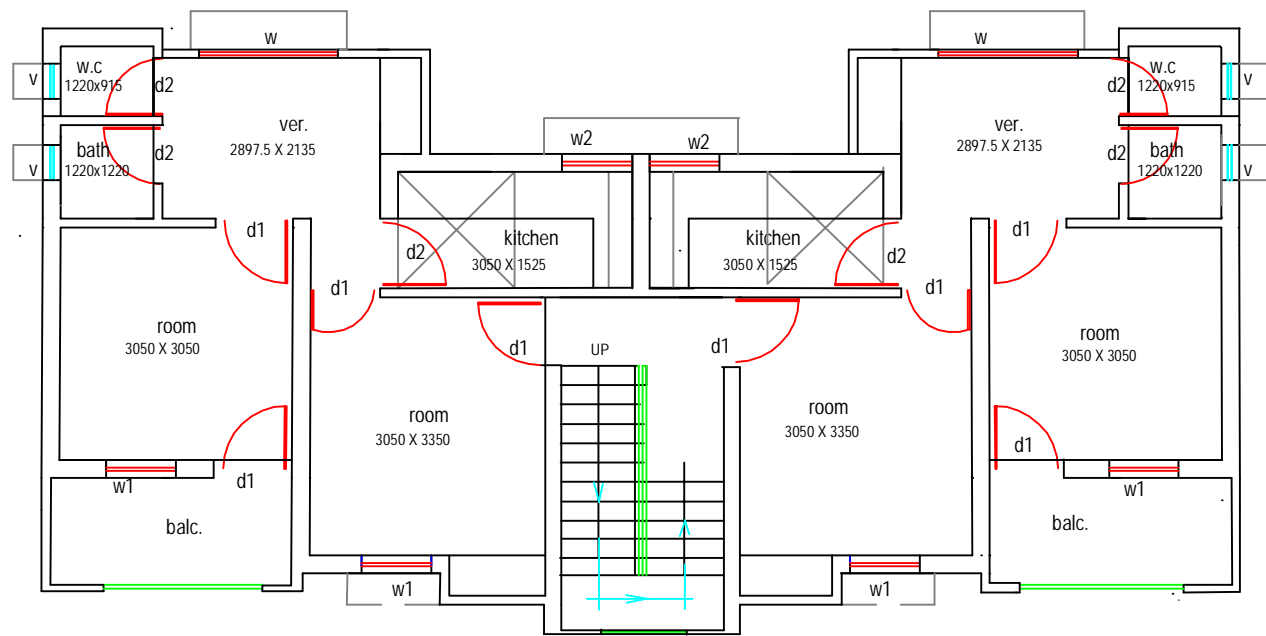
**DETAIL-Z**



**PLAN**

**INDICATIVE DRAWING**

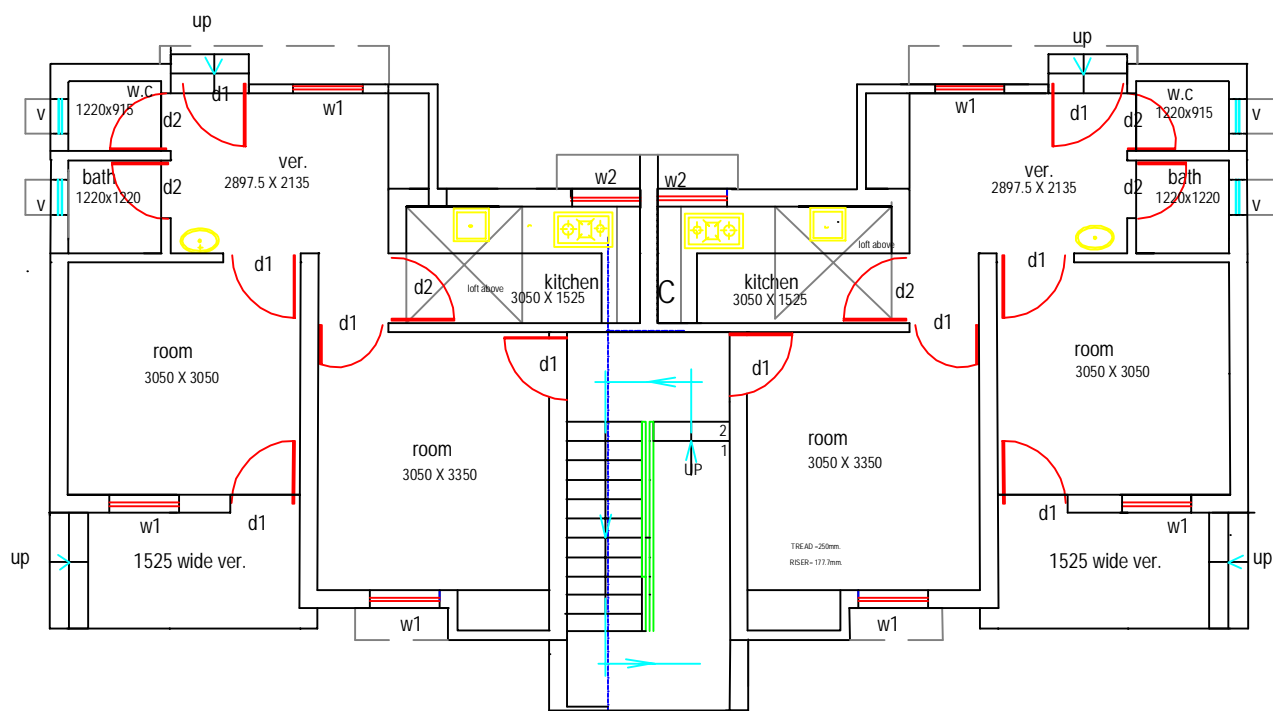
<p><b>GENERAL CONSULTANT</b></p> <p><b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA</p>	<p><b>TITLE</b></p> <p>TYPICAL DRAWING SEE THROUGH FENCING</p>	<p><b>DFCC</b> DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)</p>
<p>8</p>	<p>Drg No. DFC/2015/FEN/TYP</p>	<p><b>EASTERN CORRIDOR</b></p> <p>PROJECT KHURJA TO PII KHANI</p>



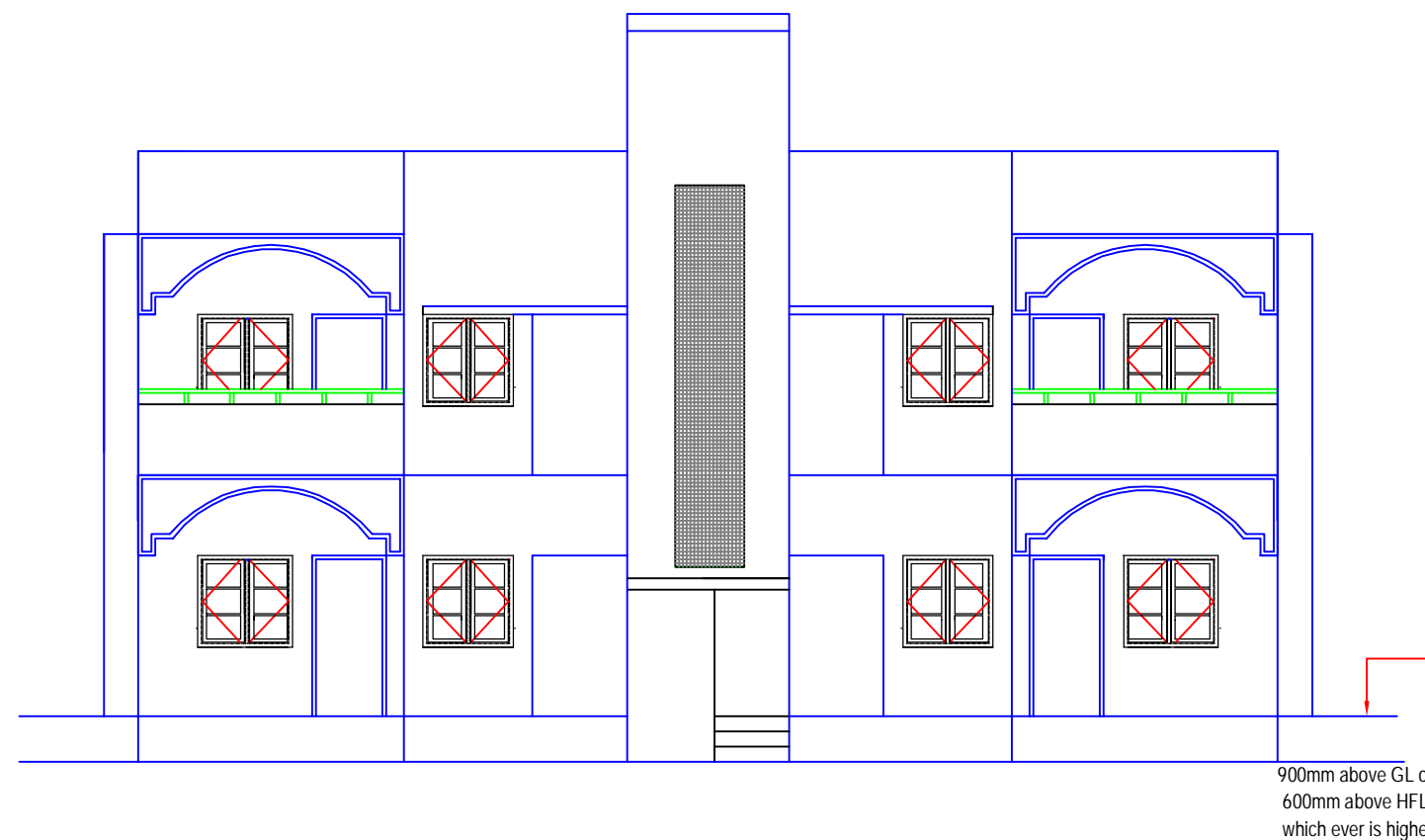
**FIRST FLOOR PLAN (TYPE-A BLOCK)**

**NOTES:-**

Number of Quarter and their location shall be decided by employer at each station.



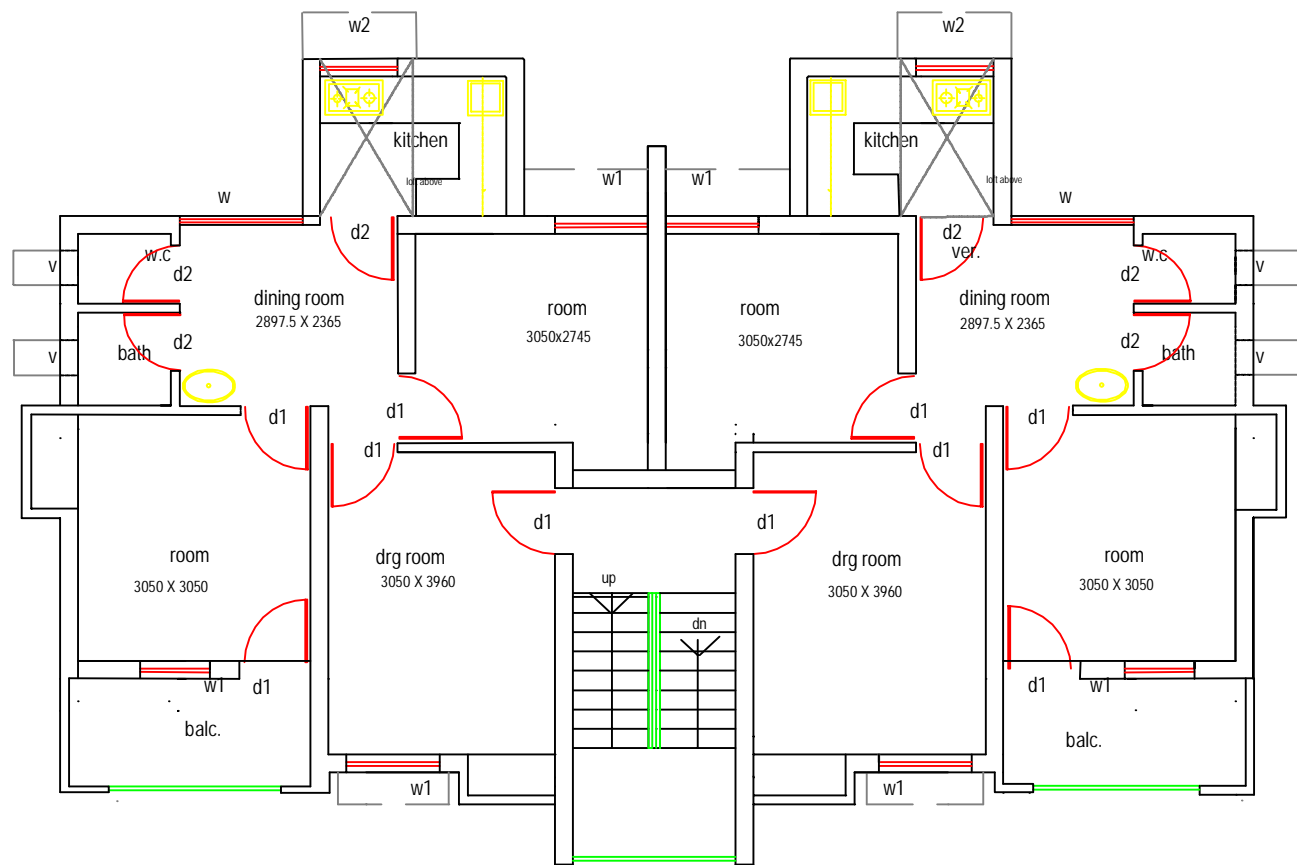
**GROUND FLOOR PLAN (TYPE-A BLOCK)**



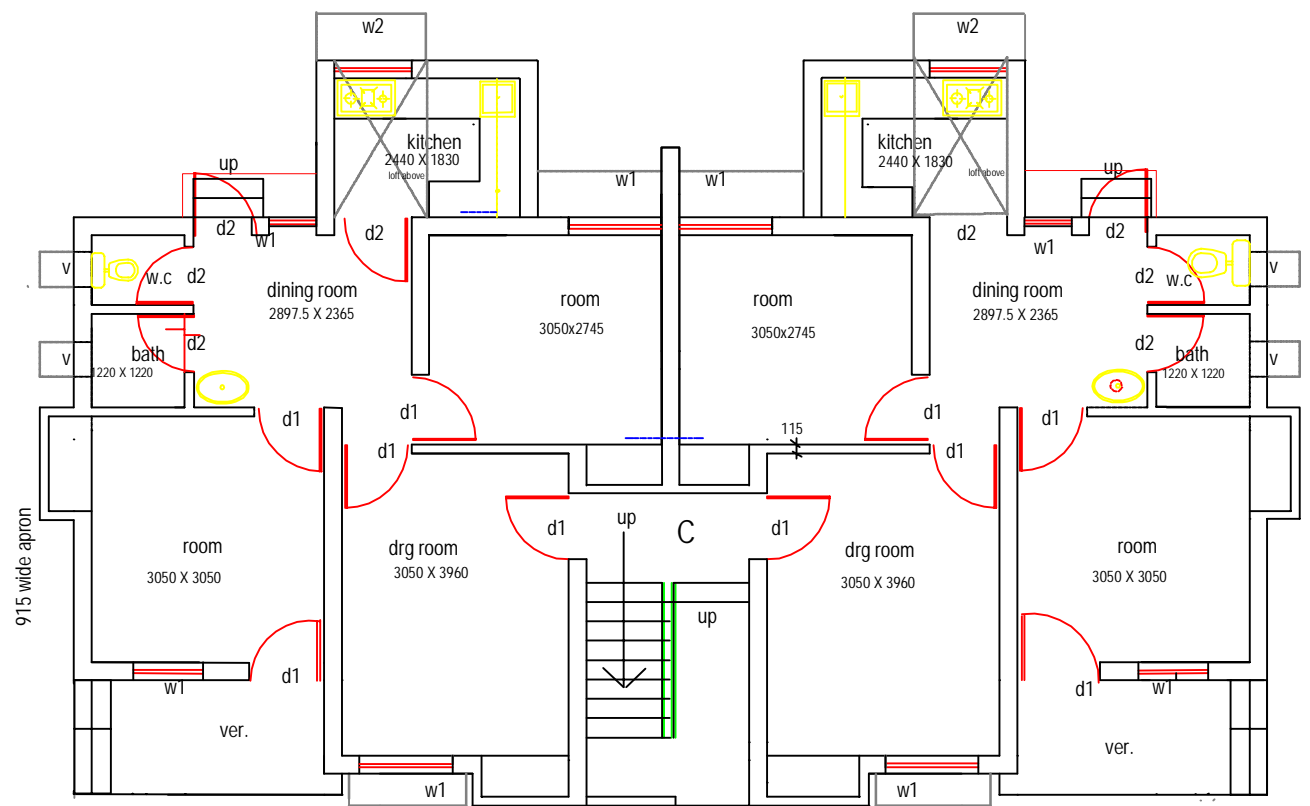
**FRONT ELEVATION (TYPE-A BLOCK)**

**INDICATIVE DRAWING**

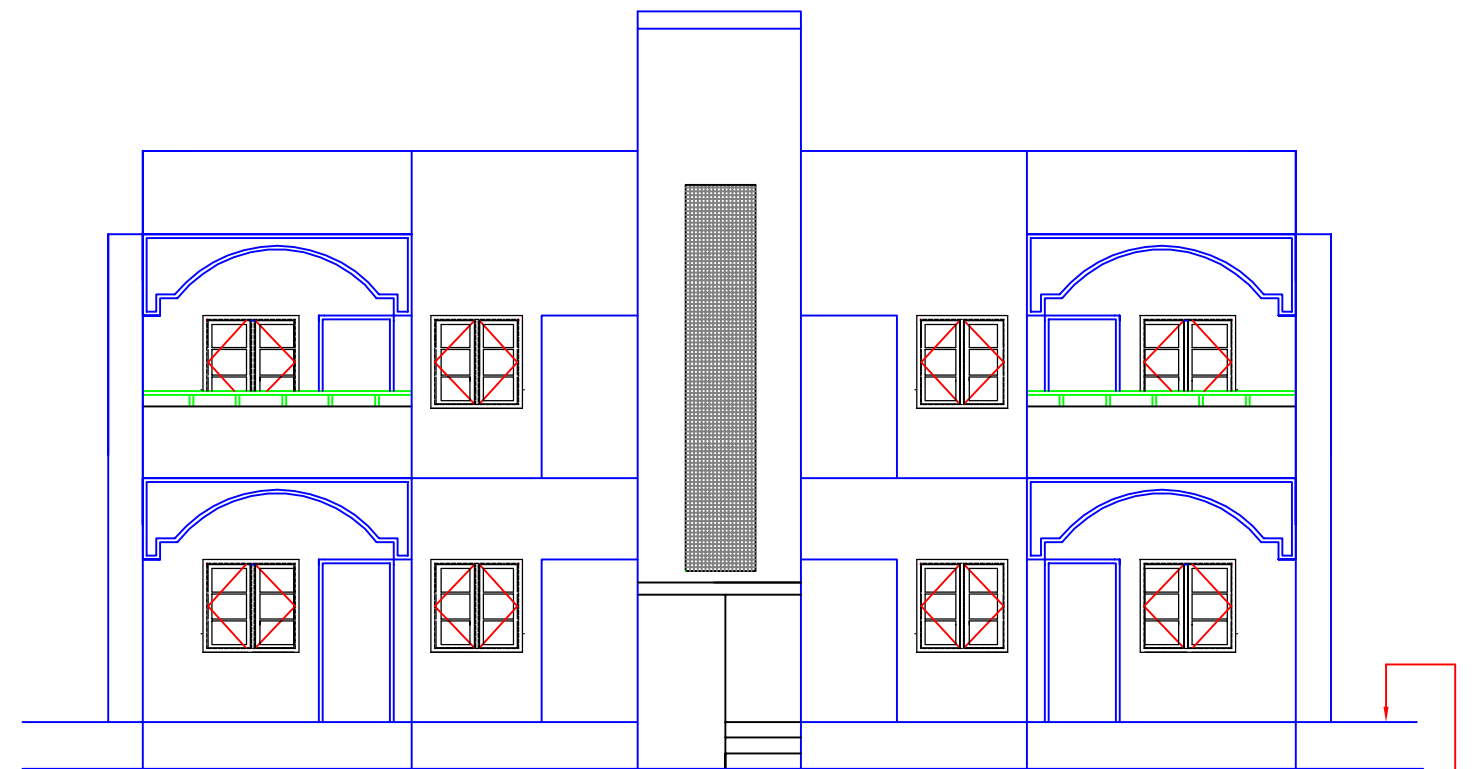
<p><b>GENERAL CONSULTANT</b></p> <p><b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA</p>	<p><b>TITLE</b></p> <p><b>TYPE - A QUARTER</b> GROUND, FIRST FLOOR PLAN AND ELEVATION</p>	<p><b>DFCC</b> DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)</p> <p><b>EASTERN CORRIDOR</b></p>
<p>9</p>	<p>Drg. No. - GC/DFCC/QRTS/701</p>	<p><b>PROJECT</b> KHURJA TO PILKHANI</p>



FIRST FLOOR PLAN (TYPE-B BLOCK)



GROUND FLOOR PLAN (TYPE-B BLOCK)



FRONT ELEVATION (TYPE-B BLOCK)

NOTES:-  
Number of Quarter and their location shall be decided by employer at each station.

INDICATIVE DRAWING

GENERAL CONSULTANT



AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

TYPE - B QUARTER

GROUND, FIRST FLOOR PLAN AND ELEVATION



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DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

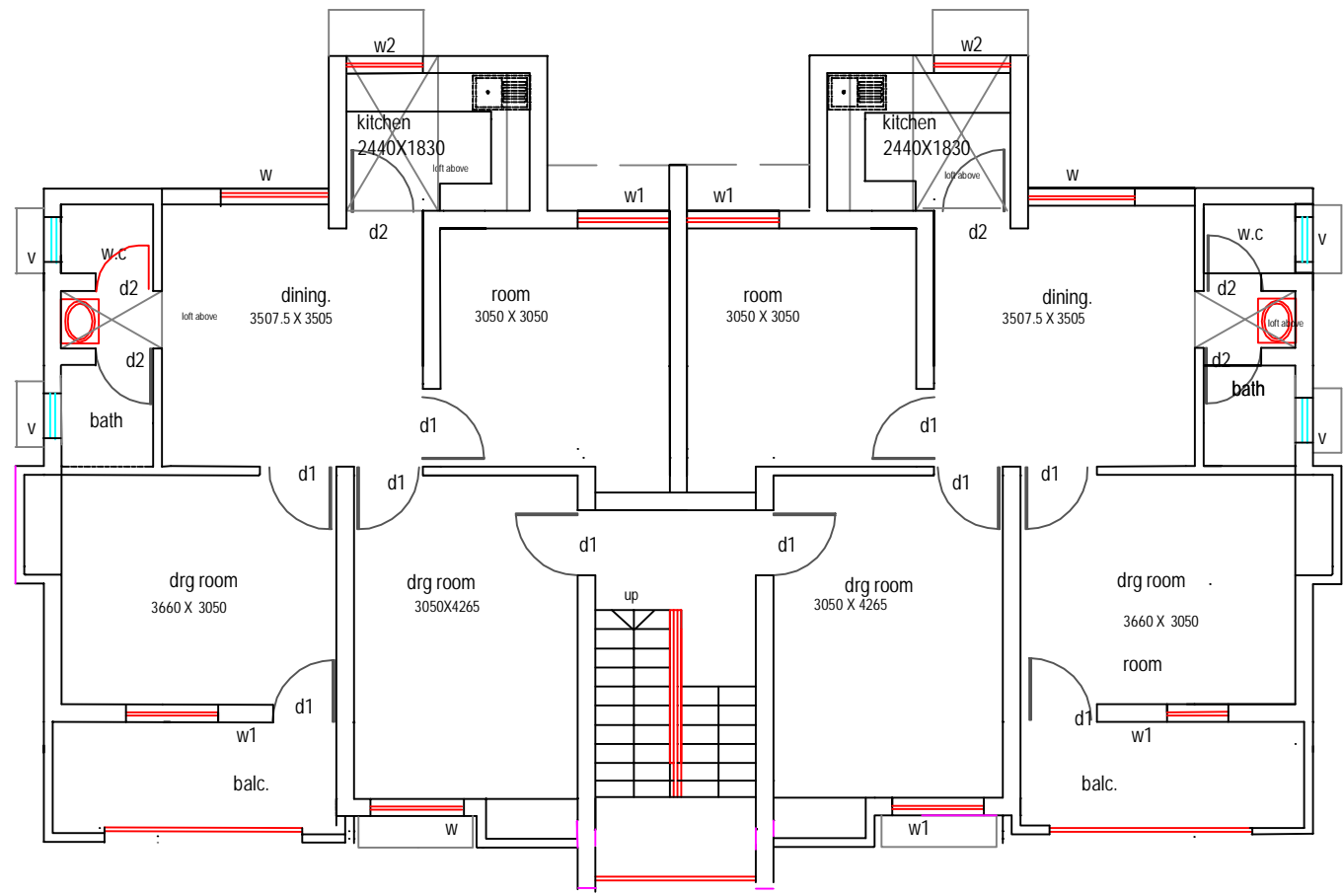
(A GOVERNMENT OF INDIA ENTERPRISE)

EASTERN CORRIDOR

Drg. No. - GC/DFCC/ORTS/702

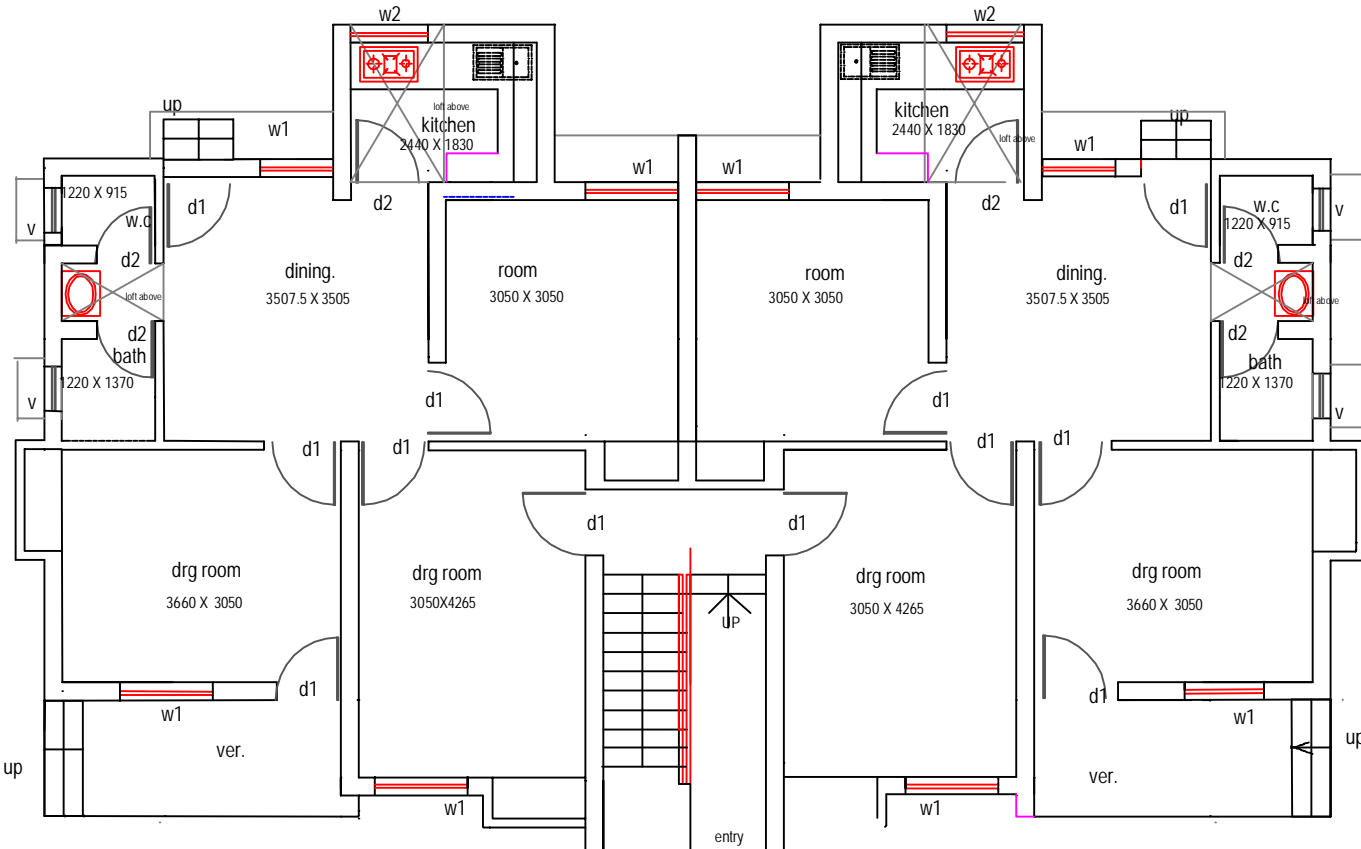
PROJECT

KHURJA TO PILKHANI

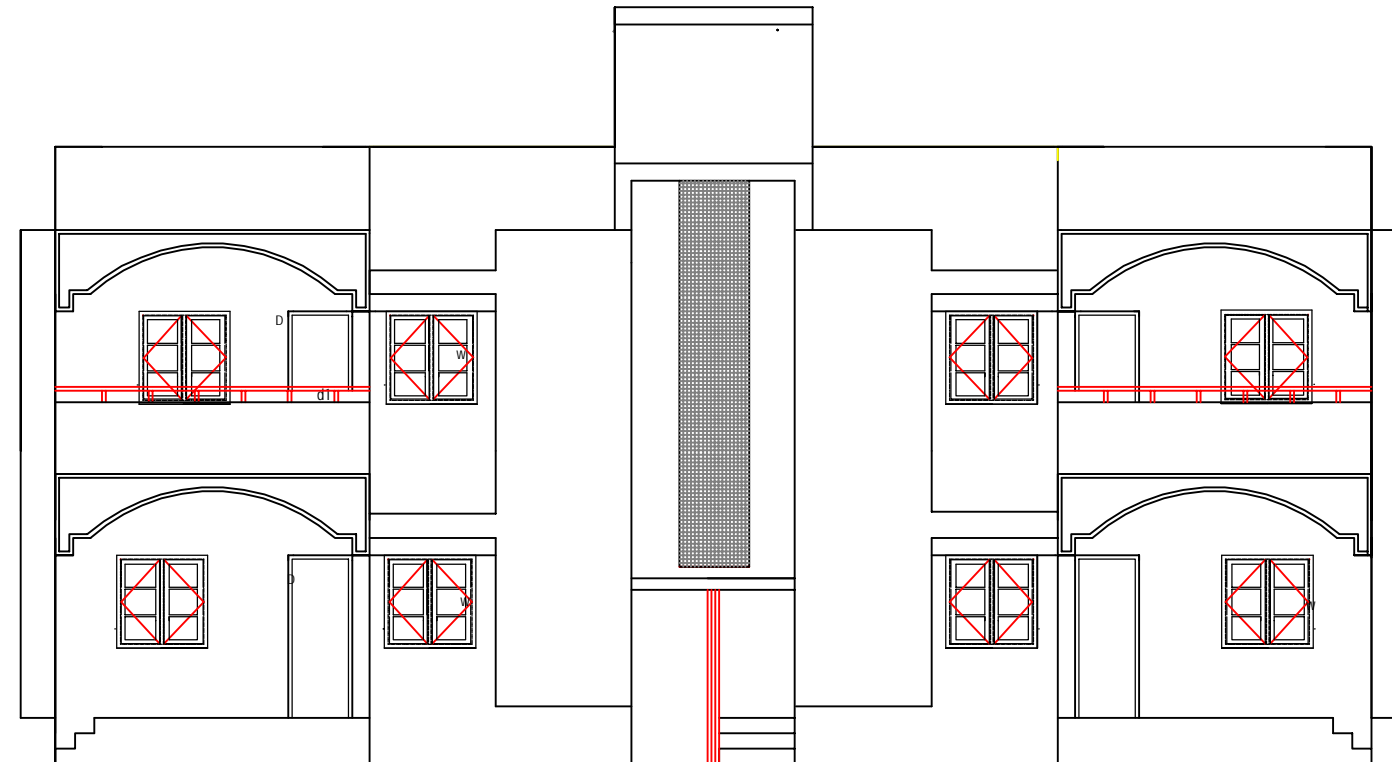


FIRST FLOOR PLAN. (TYPE-C BLOCK)

NOTES:-  
Number of Quarter and their location shall be decided by employer at each station.



GROUND FLOOR PLAN (TYPE-C BLOCK)



FRONT ELEVATION (TYPE-C BLOCK)

Drq. No. - GC/DFCC/QRTS/703

GENERAL CONSULTANT



AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

TITLE

TYPE - C QUARTER

GROUND, FIRST FLOOR PLAN AND ELEVATION



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DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

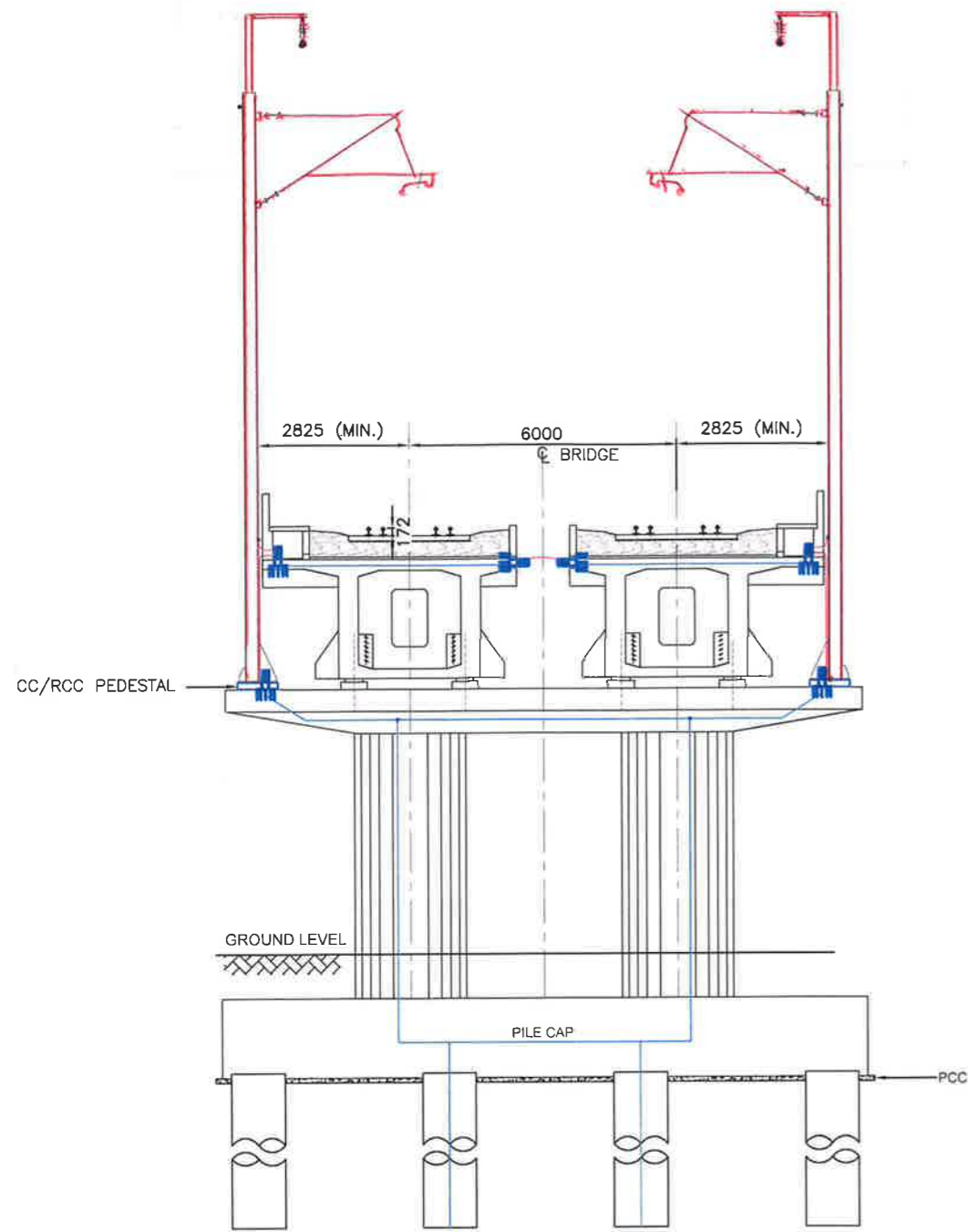
(A GOVERNMENT OF INDIA ENTERPRISE)

**EASTERN CORRIDOR**

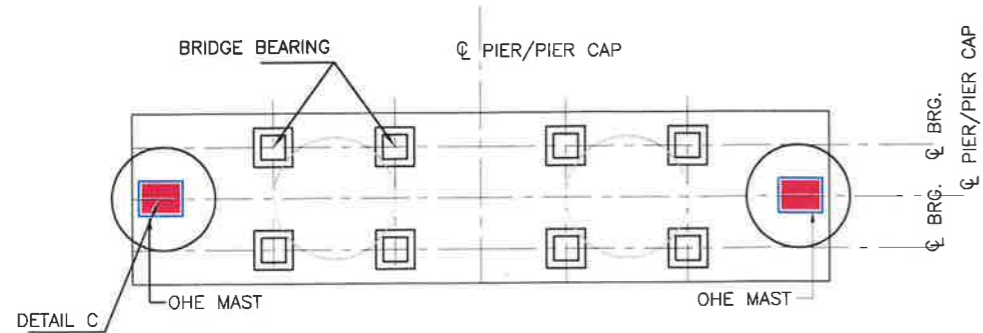
PROJECT

KHURJA TO PILKHANI

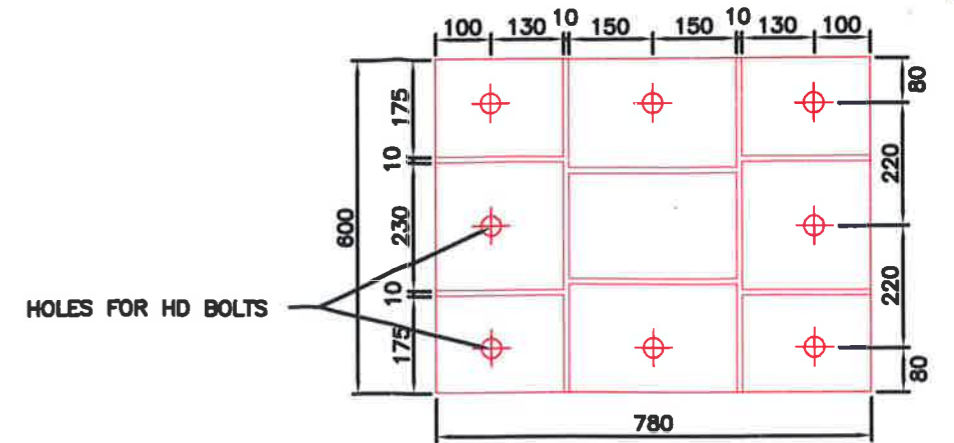
INDICATIVE DRAWING



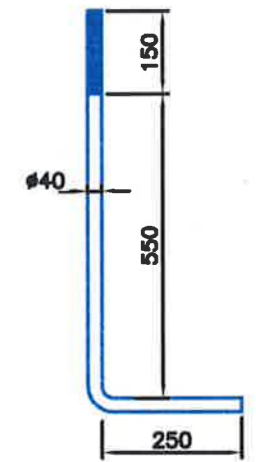
SECTION SHOWING LOCATIONS OF AEC, BEC AND THEIR INTER CONNECTIONS TO STEEL OHE MAST



PLAN AT PIER CAP LEVEL WITH OHE MAST BASE



BASE PLATE FOR OHE MAST  
DETAIL OF C



DETAIL OF HD BOLTS

**SCOPE OF CIVIL (BRIDGE) CONTRACTOR**

- 1. TO PROVIDE HD BOLTS WITH SPACING AS PER DETAIL "C"
- 2. TO PROVIDE CC/RCC PEDESTAL FOR OHE MAST AS SHOWN IN THE SECTION.

**SCOPE OF TRACTION CONTRACTOR**

- 1. TO PROVIDE BRIDGE MAST WITH BASE PLATE AS PER DETAIL "C"

**GENERAL**

- 1. MIN. IMPLANTATION FOR OHE MAST SHALL BE 2825mm. HOWEVER, FOR LONGER BRIDGES WITH SIGNAL LOCATION, MIN. IMPLANTATION SHALL BE AS PER ACTM VOL.-2, PART-2 APPENDIX -1 PARA 20.5.
- 2. THE MAST MOUNTING ARRANGEMENT ON PIER CAPS OF BRIDGES SHALL BE SUCH THAT MAXIMUM SPACING BETWEEN OHE MAST SHALL NOT EXCEED 54m (EDFC) & 45m (WDFC). IN CASE OF HIGHER PIER SPACING OHE SUPPORT ARRANGEMENT SHALL BE PROVIDED ON THE BRIDGE DECK ITSELF.
- 3. ADJACENT PIERS SHALL HAVE PROVISION OF PEDESTAL & HD BOLTS FOR FUTURE/EMERGENCY REQUIREMENTS.
- 4. THIS BEING A TYPICAL DRAWING, IN CASE OF TECHNICAL DIFFICULTY DUE TO DIFFERENT PIER/GIRDER ARRANGEMENT THE CASE SHALL BE REFERRED TO ELECTRICAL DEPARTMENT FOR SITE SPECIFIC SOLUTION
- 5. IN CASE OF ANY DISPUTE IN SCOPE OF WORK SHOWN IN THIS DRAWING VIS A VIS EMPLOYERS REQUIREMENTS, SCOPE OF WORK AS GIVEN IN EMPLOYERS REQUIREMENT SHALL PREVAIL.

BLUE COLOUR:- WORK TO BE EXECUTED BY CIVIL CONTRACTORS  
RED COLOUR:- WORK TO BE EXECUTED BY E&M CONTRACTORS.

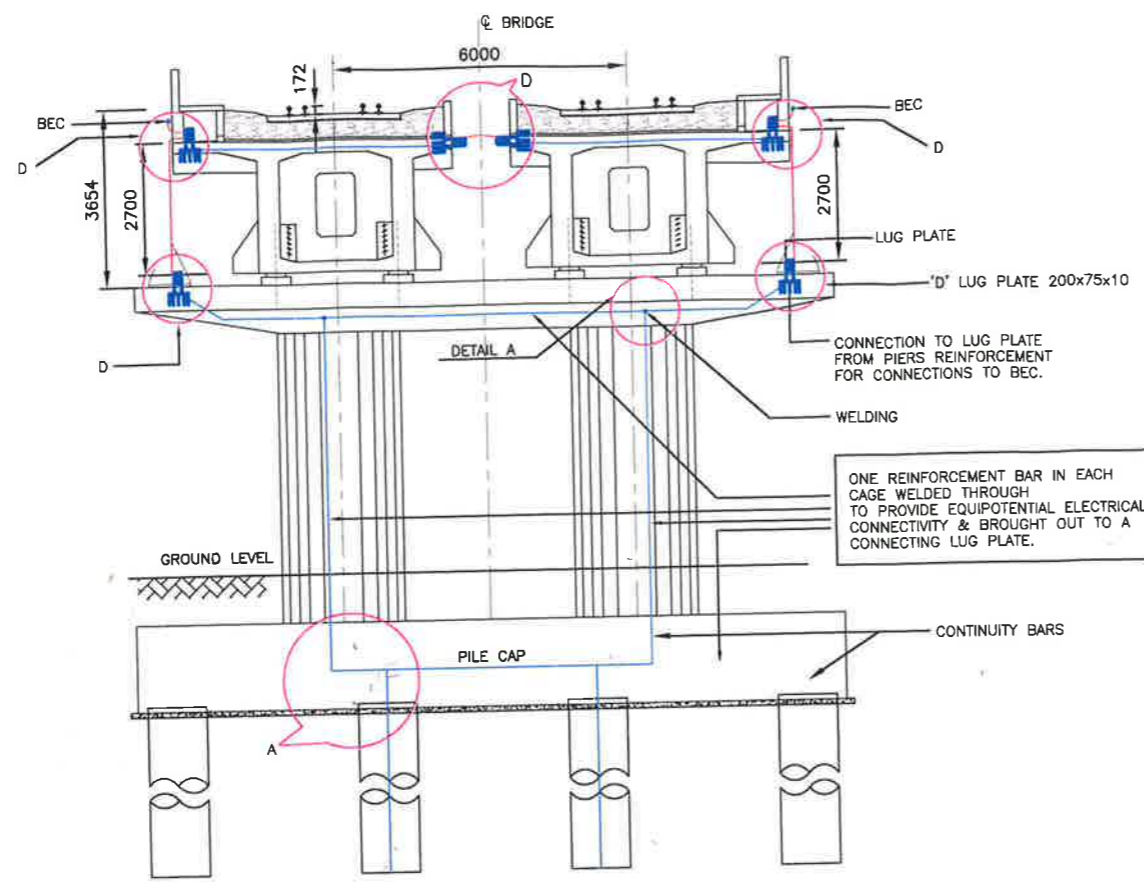
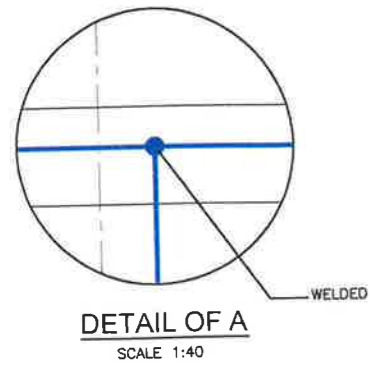
Approved By  
  
 GGM/EL/PS      GGM/CO/EC 21/7      GM/CO/WC

21/07/14  
 21/07/14

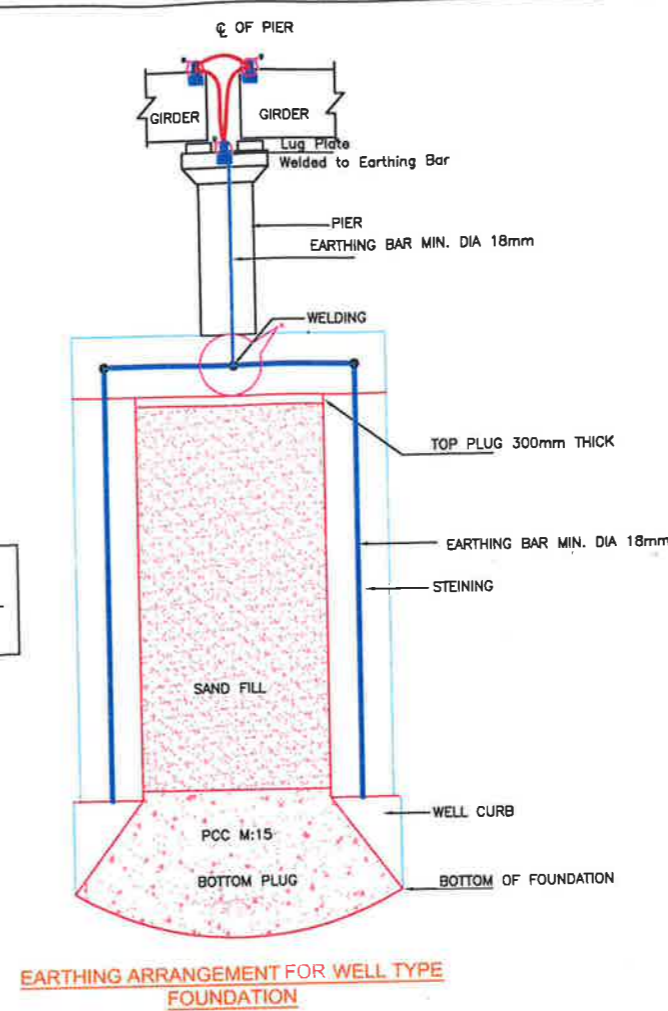
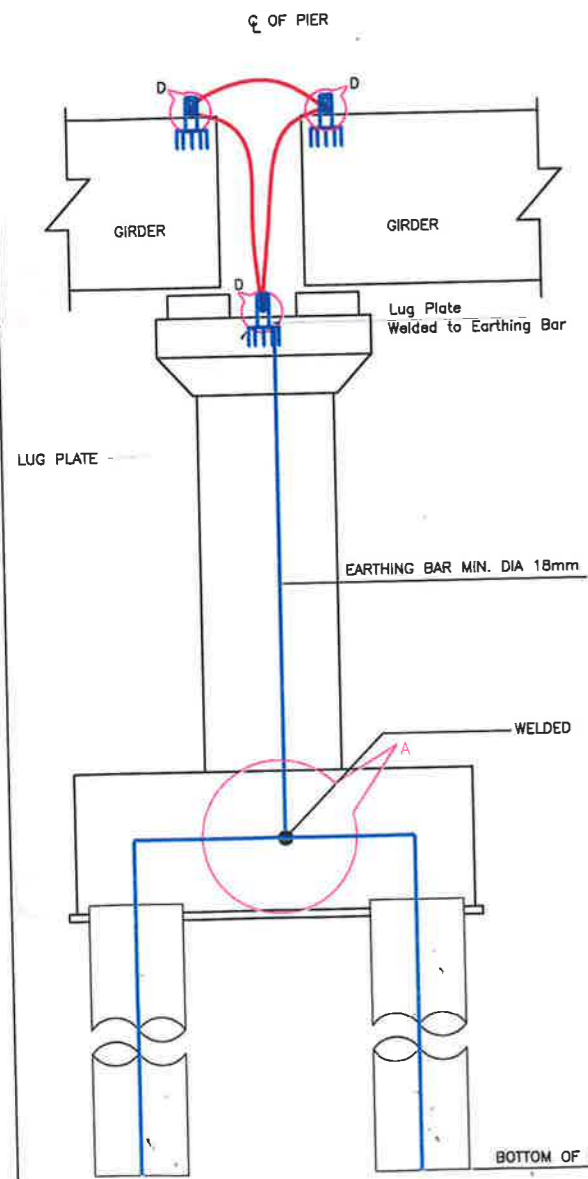
Drawing Title  
**TYPICAL SKETCH FOR FIXING OF OHE MAST ON BRIDGE PIER**

Drawing Number **HQ/EL/OHE/P4-1/Mast**  
 Scale **NTS**  
 Reference **EMP4/OHE/110**  
 Drawn By \_\_\_\_\_ Checked By \_\_\_\_\_ Approved By \_\_\_\_\_

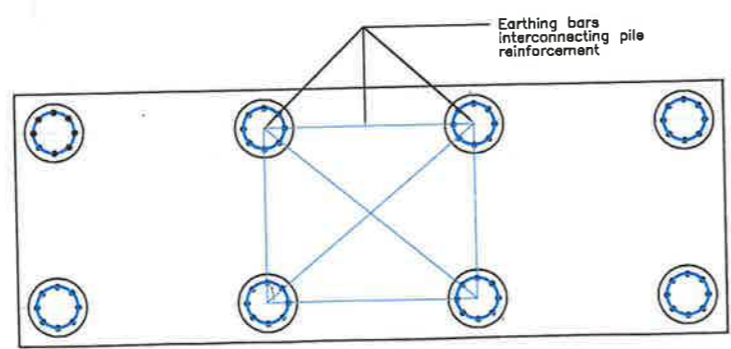
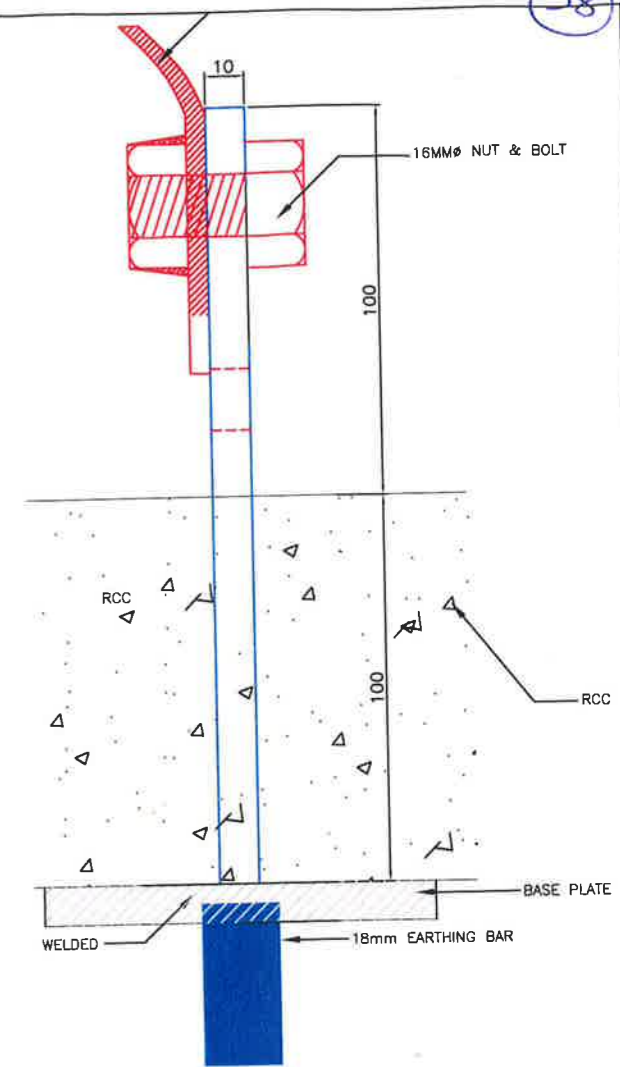
Client  
  
**मेट्रो फ्लोरिड**  
 5th Floor, Pragati Maidan Metro Station Building,  
 New Delhi-110001, INDIA



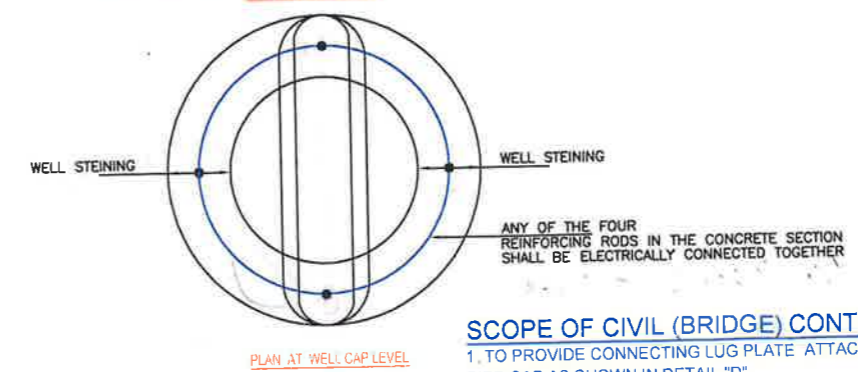
SECTION SHOWING INTER CONNECTIONS OF CONTINUITY BARS AND EARTHING ARRANGEMENT.



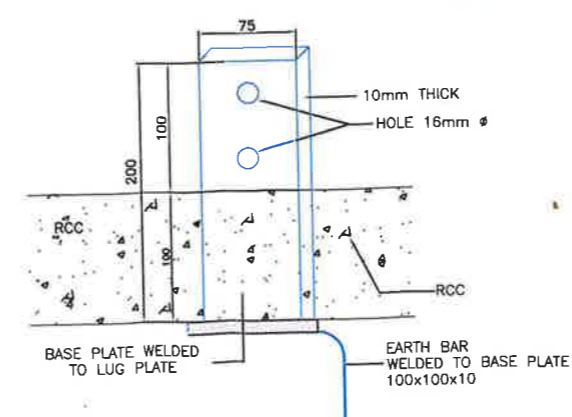
EARTHING ARRANGEMENT FOR WELL TYPE FOUNDATION



Earthing arrangement to be followed for max. 4 piles. In case of 4 or less piles all piles shall be interconnected.



PLAN AT WELL CAP LEVEL



FRONT VIEW OF LUG PLATE AT LOCATION MARKED "D"

**SCOPE OF CIVIL (BRIDGE) CONTRACTOR**

1. TO PROVIDE CONNECTING LUG PLATE ATTACHED TO REINFORCEMENT AT BOTH ENDS OF EACH GIRDER & PIER CAP AS SHOWN IN DETAIL "D"
2. TO PROVIDE EQUIPOTENTIAL CONTINUITY BAR FROM LUG PLATE PROVIDED AT THE PIER CAP TO THE BOTTOM OF FOUNDATION BY USING ANY ONE OF THE STRUCTURAL ROD OF MIN. DIA 18mm AS SHOWN IN THE DRAWING. THE REINFORCING RODS IN EACH CONCRETE SECTION (PIER) SHALL BE ELECTRICALLY CONNECTED TOGETHER
3. INTERCONNECTION OF CONTINUITY BARS SHALL BE MADE THROUGH WELDING AS SHOWN IN DETAIL "A"
4. IN CASE OF BRIDGES WITH STEEL SUPER STRUCTURE, CONTRACTOR SHALL PROVIDE SUITABLE HOLES IN THE STEEL STRUCTURE AT SUPPORTS FOR CONNECTION OF JUMPERS BY ELECTRICAL CONTRACTOR.

**SCOPE OF TRACTION CONTRACTOR**

1. TO PROVIDE JUMPERS BETWEEN LUG PLATES, BEC, ONE MAST AS SHOWN IN "D"

**GENERAL**

1. EARTHING ARRANGEMENT AS INDICATED IN THE DRAWING TO BE FOLLOWED ON EACH PIER LOCATION ON BRIDGE STRUCTURE WITH WELL AND PILE FOUNDATION
2. IN CASE OF ANY DISPUTE IN SCOPE OF WORK SHOWN IN THIS DRAWING VIA A VIS EMPLOYERS REQUIREMENTS, SCOPE OF WORK AS GIVEN IN EMPLOYERS REQUIREMENT SHALL PREVAIL.
3. THIS BEING A TYPICAL DRAWING. IN CASE OF TECHNICAL DIFFICULTY DUE TO DIFFERENT PIER/GIRDER ARRANGEMENT THE CASE SHALL BE REFERRED TO ELECTRICAL DEPARTMENT FOR SITE SPECIFIC SOLUTION

BLUE COLOUR:- WORK TO BE EXECUTED BY CIVIL CONTRACTORS.  
RED COLOUR:- WORK TO BE EXECUTED BY E&M CONTRACTORS.

Approved By  
3M/BL/PS  
GGM/CO/EC  
21/07/14  
GM/CO/WC  
21/07/14

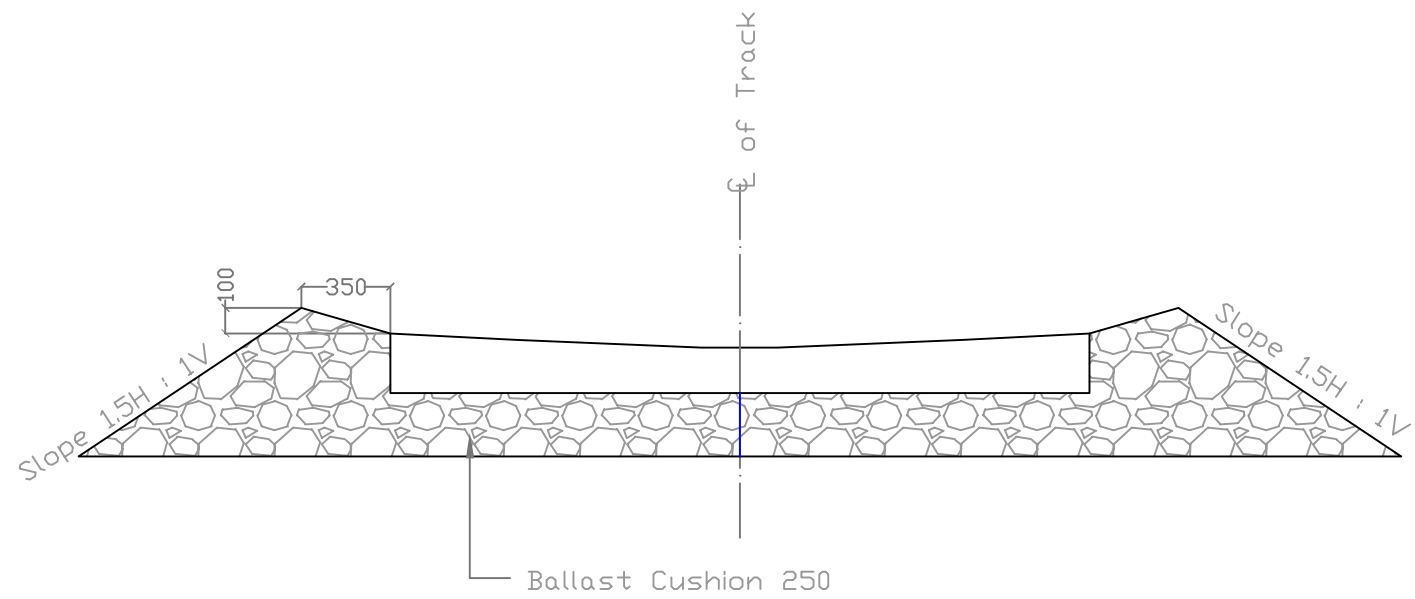
21/07/14  
21/07/14

Drawing Title  
**TYPICAL SKETCH FOR EARTHING & BONDING SCHEME ON BRIDGE PIERS & ABUTMENTS WITH PILE / WELL FOUNDATION**

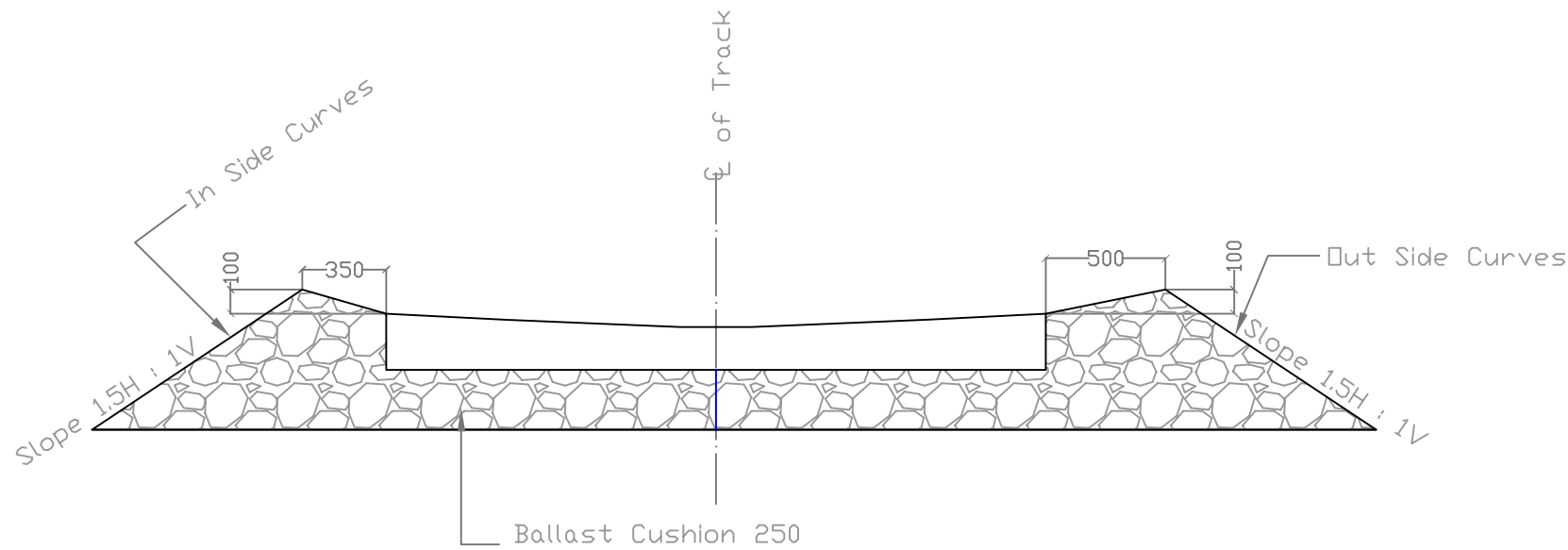
Drawing Number **HQ/EL/OHE/A.1/Earthing**  
Scale **NTS**  
Reference **EMP4/OHE/110**  
Drawn By  
Checked By  
Approved By

Client  
**mtc**  
मेट्रो कंस्ट्रक्शंस प्राइवेट लिमिटेड  
5th Floor, Pragati Maidan Metro Station Building,  
New Delhi-110001, INDIA

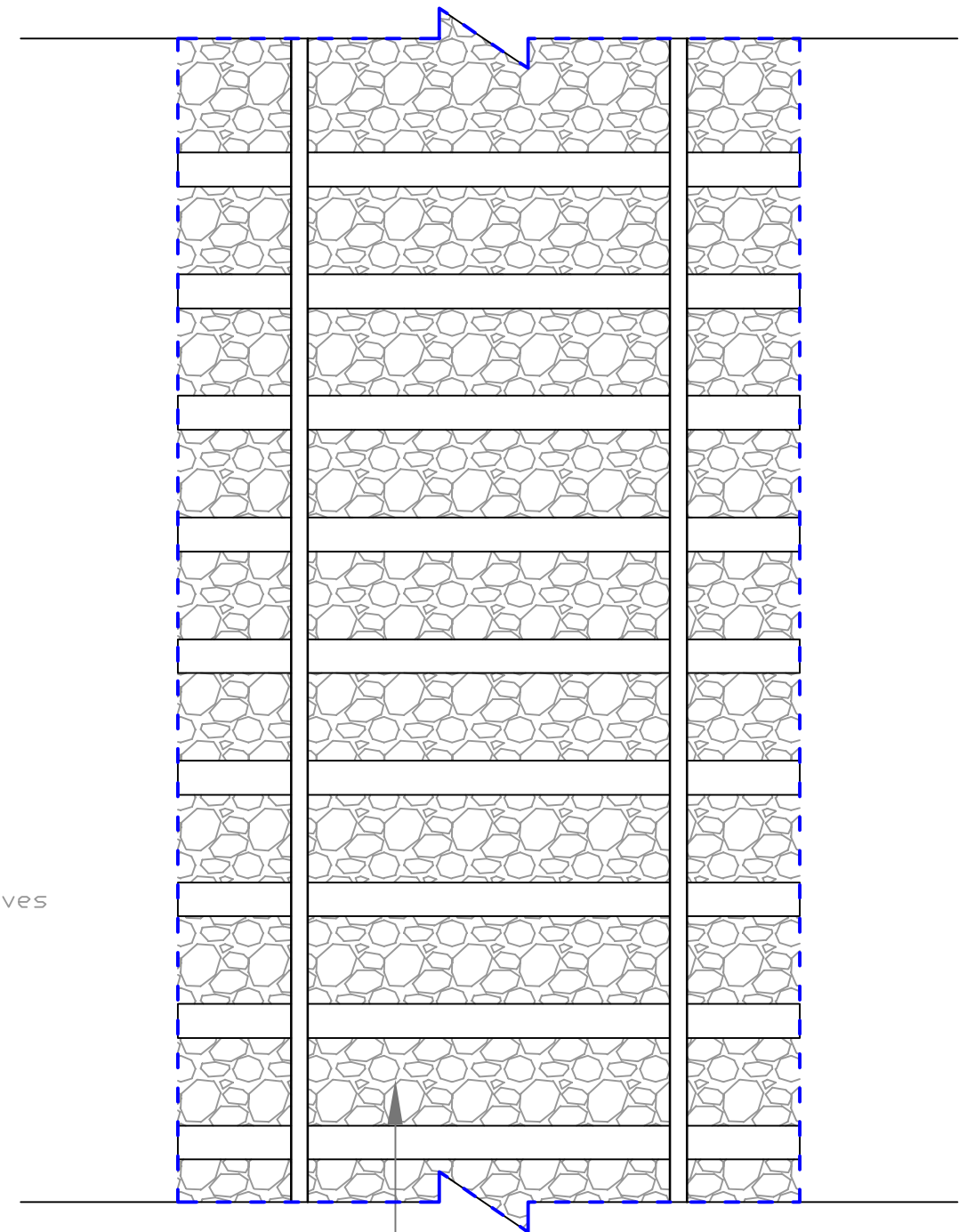




MINIMUM BALLAST PROFILE (B.G.) FOR LOOPs ON STRAIGHTS



MINIMUM BALLAST PROFILE (B.G.) FOR LOOPs ON CURVES



Ballast in this portion will be filled up to the top of sleepers

All Dimensions are in MM.

**INDICATIVE DRAWING**

SCALE  
NTS

**GENERAL CONSULTANT**



**AECOM Asia Co. Ltd.**

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY  
DLF PHASE II GURGAON 122002, INDIA

**TITLE**

**MINIMUM BALLAST PROFILE  
B.G. FOR LOOPs FOR  
STRAIGHTS, CURVES**

**Drg No. DFC/2015/BF/01**



डेडीकेटेड फ्रेट कोरीडोर

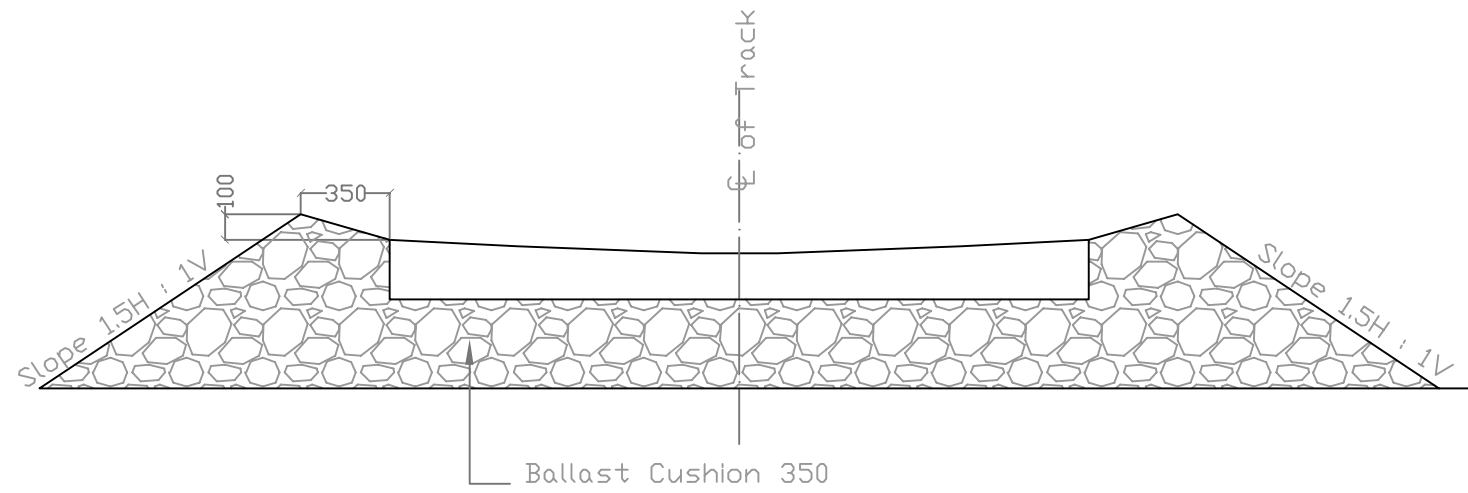
**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.**

( A GOVERNMENT OF INDIA ENTERPRISE )

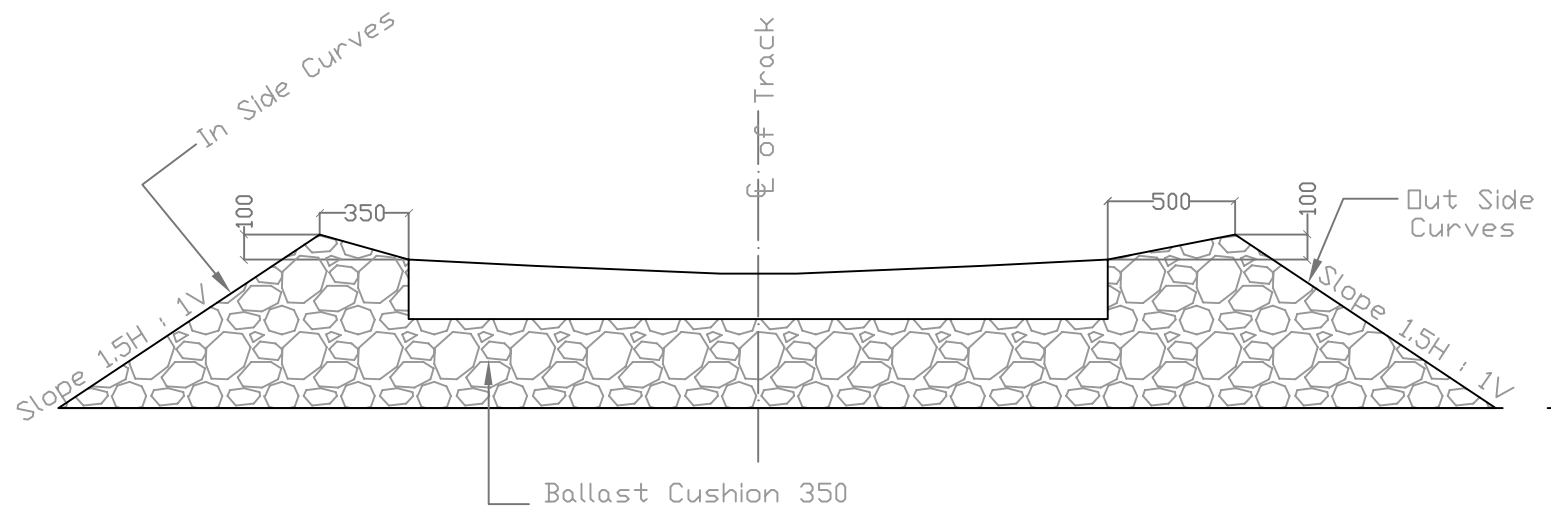
**EASTERN CORRIDOR**

**PROJECT**

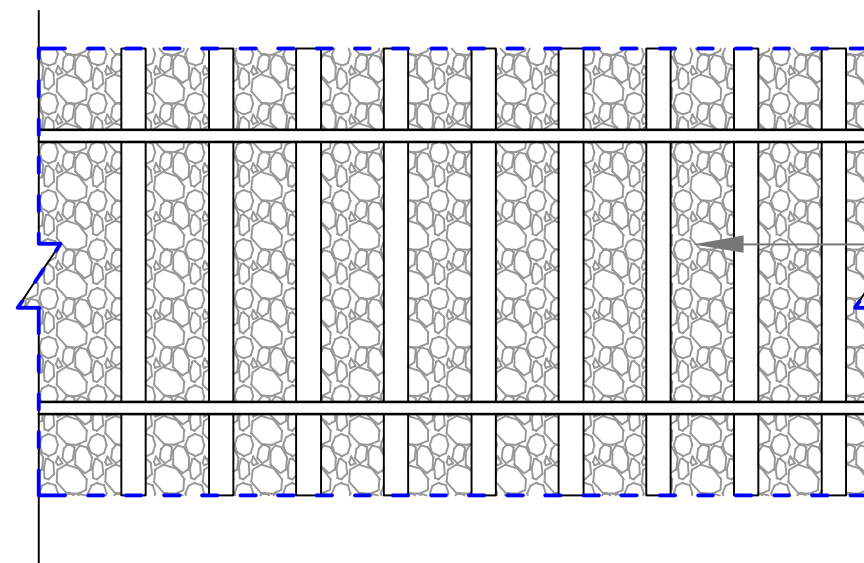
**KHURJA TO PILKHANI**



**MINIMUM MAIN LINE BALLAST PROFILE SINGLE LINE (B.G. FOR STRAIGHTS FOR LWRs/CWRs)**




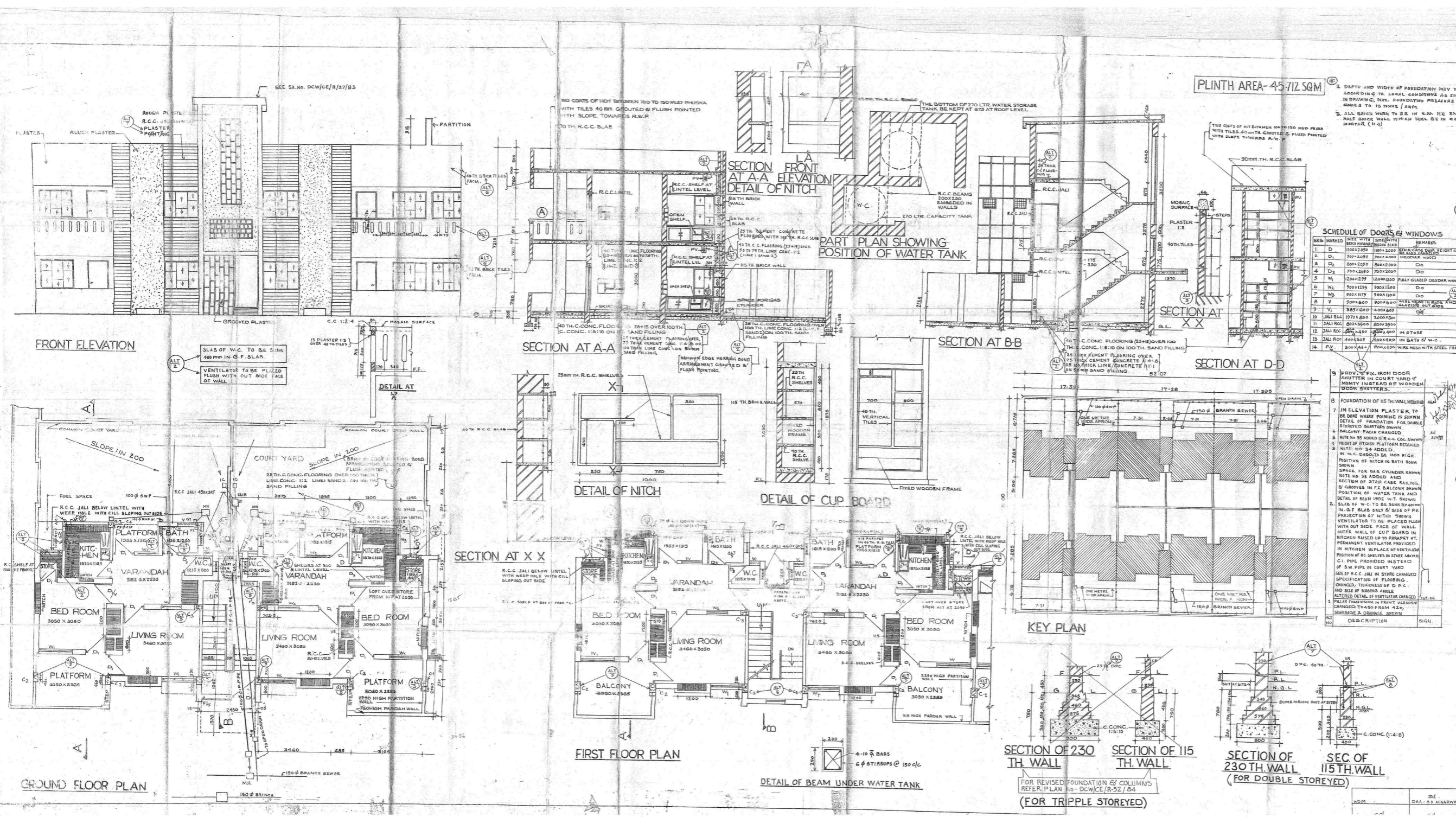
**MINIMUM MAIN LINE BALLAST PROFILE SINGLE LINE (B.G. FOR CURVES FOR LWRs/CWRs)**



Ballast in this portion will be filled up to the top of sleepers

**INDICATIVE DRAWING**

SCALE NTS	GENERAL CONSULTANT <b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	TITLE <b>MINIMUM BALLAST PROFILE SINGLE LINE B.G. FOR STRAIGHTS &amp; CURVES</b>	 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD ( A GOVERNMENT OF INDIA ENTERPRISE ) <b>EASTERN CORRIDOR</b>
		Drg No. DFC/2015/BF/02	



PLINTH AREA-45.712 SQM

SCHEDULE OF DOORS & WINDOWS

NO.	MARKED	DESCRIPTION	REMARKS
1	D	1000 X 2000	DOOR WITH GLASS
2	D	800 X 2000	DOOR WITH GLASS
3	D	700 X 2000	DOOR WITH GLASS
4	W	1200 X 1200	WINDOW WITH GLASS
5	W	900 X 1200	WINDOW WITH GLASS
6	W	800 X 1200	WINDOW WITH GLASS
7	W	600 X 1200	WINDOW WITH GLASS
8	W	500 X 1200	WINDOW WITH GLASS
9	W	400 X 1200	WINDOW WITH GLASS
10	W	300 X 1200	WINDOW WITH GLASS
11	W	200 X 1200	WINDOW WITH GLASS
12	W	100 X 1200	WINDOW WITH GLASS
13	W	100 X 1200	WINDOW WITH GLASS
14	W	100 X 1200	WINDOW WITH GLASS

- DEPTH AND WIDTH OF FOUNDATION SHALL VARY ACCORDING TO LOCAL CONDITIONS AS SHOWN IN DRAWING. SEE FOUNDATION PRESSURE CROSS TO IS 1000 (S.P.).
- ALL BRICK WORK TO BE IN W.A. THE EXCEPT SELF BRICK WALL WHICH SHALL BE IN CEMENT MORTAR (1:1:6).
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- NUMBER OF WALLS SHALL BE PLASTERED AND 100MM. SHAPINGS IS TO BE PROVIDED.
- IN BATH 2000 HIGH MOBSIC DADO WITH ORDINARY GREY CEMENT TO BE PROVIDED TO THE CEILING.
- FLOOR OF THE BATH TO BE MOBSIC AND SUNK BY 10MM TO MAIN FLOOR.
- FIVE TANKS 15MM @ EACH TO BE PROVIDED AS MENTIONED BELOW.
- IN BATH ROOM AT HEIGHT 1000 FROM FLOOR LEVEL (WITH W.C. 2300 X 2000).
- IN KITCHEN 1000 X 1000 X 2000.
- IN SHOWER IN BATH RM 1000 X 1000.
- STANDARD R.C. LINTEL AS PER PLAN NO. DCW/CE/10/17/83.
- R.C.C. SHELVES WILL BE PROVIDED.
- ALL DOORS & WINDOWS TO BE PROVIDED WITH 100MM. SHAPINGS.
- PROV. TO ALL WALLS EXCEPT COURT YARD WALL WHICH WILL BE PROVIDED WITH 100MM. SHAPINGS.
- FOR RESTROOMS TO BE PROVIDED WITH 100MM. SHAPINGS.
- 15TH CUP BOARD SHUTTER OF 1000 X 1000 BOARD IN YARD ROOM TO BE PROVIDED.
- FIXED WIRE GAUGE IS PROVIDED IN ALL EXTERNAL WINDOW.
- PERMANENT VENTILATORS 250MM WIRE GAUGE FIXED IN STEEL FRAME TO BE PROVIDED IN KITCHEN AND W.C.
- IMPROVED ANGLE IRON IS TO BE PROVIDED IN STAIRCASE (S.P.).
- WHOLE IRON PIPES TO BE PROVIDED IN DOORS, WINDOWS & VENTILATORS WITH WIRE GAUGE IN FRAMES AS WELL AS PROVIDED WITH COUNTER SINK MACHINE GROUNDING TO BE PROVIDED WITH HOLLOW SECTION.
- SHAPINGS OF SIZES AS REQUIRED TO BE MANUFACTURED AS PER IS 1000.
- IN TOTAL LENGTH OF WALL SHALL DIFFERENCE DUE TO THE USAGE OF BRICKS IS ADJUSTED IN JOINTS BY GIVING SLIGHTLY THICKER MOTOR JOINTS (S.P.).
- OVERALL LENGTH OF EACH UNIT AS SHOWN IN THE PLANS IS TO BE MAINTAINED BY FINING THE BRICKS AT THE END OF THE OTHER WALLS ONLY AND THE SIZE OF THE ROOMS BE IN ACCORDANCE WITH THE CASE NO. DCW/CE/10/17/83.
- THE SIZE OF WARDROBE, CUP BOARD AND LINTELS ARE ADJUSTED ACCORDING TO THE CONDITIONS.
- LINTEL HEIGHT IS 100MM AND WALL 100MM.
- PILLAR SIZES IN 300 X 300. (S.P.).
- THE DEPTH OF WATER TANK TO BE 1000MM. SHALL BE PROVIDED IN THE COURTYARD.
- LEVEL SAND BELOW WATER TANK TO BE PROVIDED.
- RIGHT OF BRICKS SHALL BE PROVIDED IN THE COURTYARD.
- 25TH R.C.C. SHELVES TO BE PROVIDED IN THE COURTYARD.
- LAR HOSE AT CENTRE.
- FOR DETAIL OF NICHES SEE DETAIL AT X-X.
- ALL SIZES IN 300 X 300. (S.P.).
- TERRACE TO BE PROVIDED IN THE COURTYARD.
- CONCRETE SHALL BE PROVIDED IN THE COURTYARD.
- CASE OF TYPICAL WALL TO BE PROVIDED.

TRUE COPY

DESIGNER: [Signature]

ENGINEER: [Signature]

CHIEF ENGINEER: [Signature]

SENIOR CIVIL ENGINEER: [Signature]

ASSISTANT ENGINEER (F&D): [Signature]

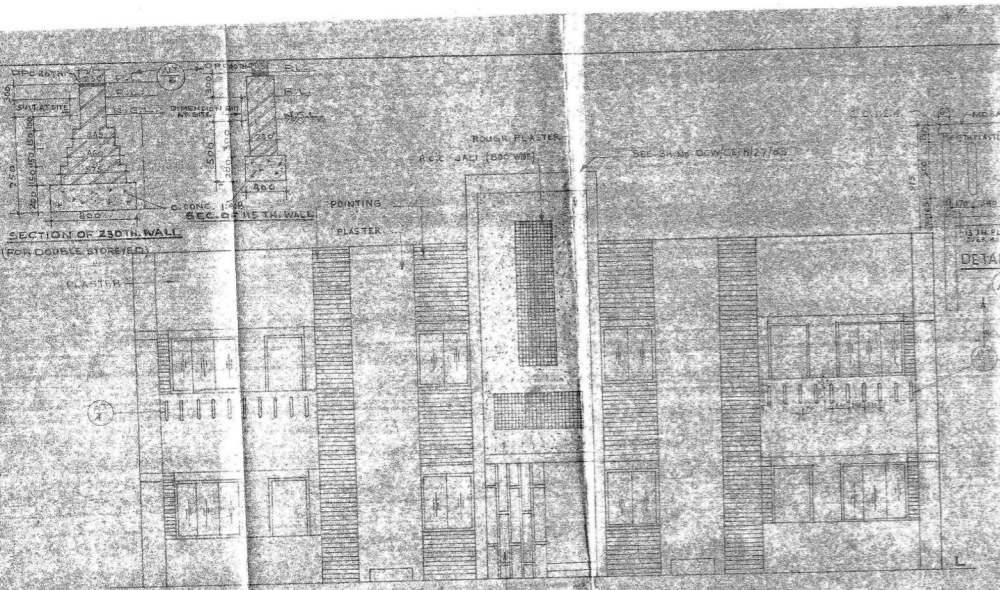
DESEL COMPONENT WORKS PTA

STANDARD TYPE II QUARTERS

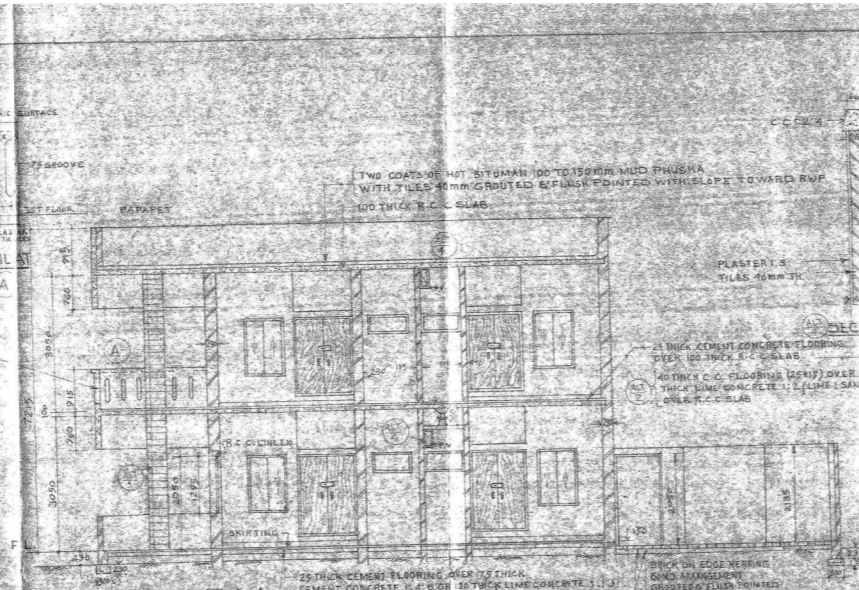
DOUBLE STOREYED

SCALE - 1:50

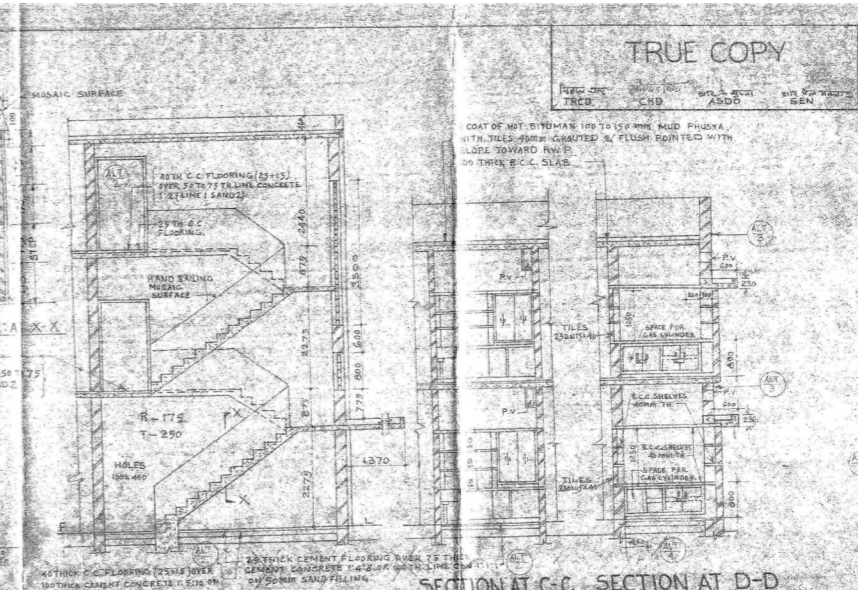
DATE - 10/17/83



FRONT ELEVATION

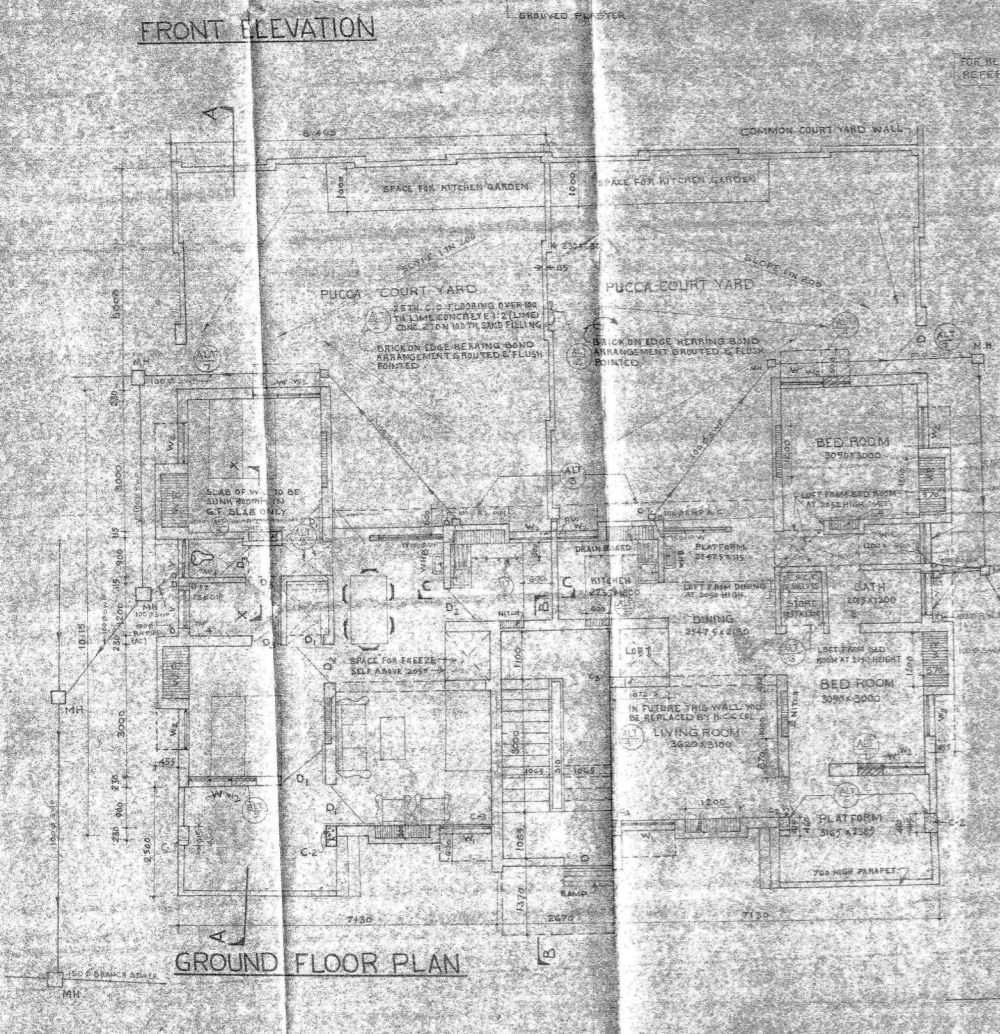


SECTION AT A-A

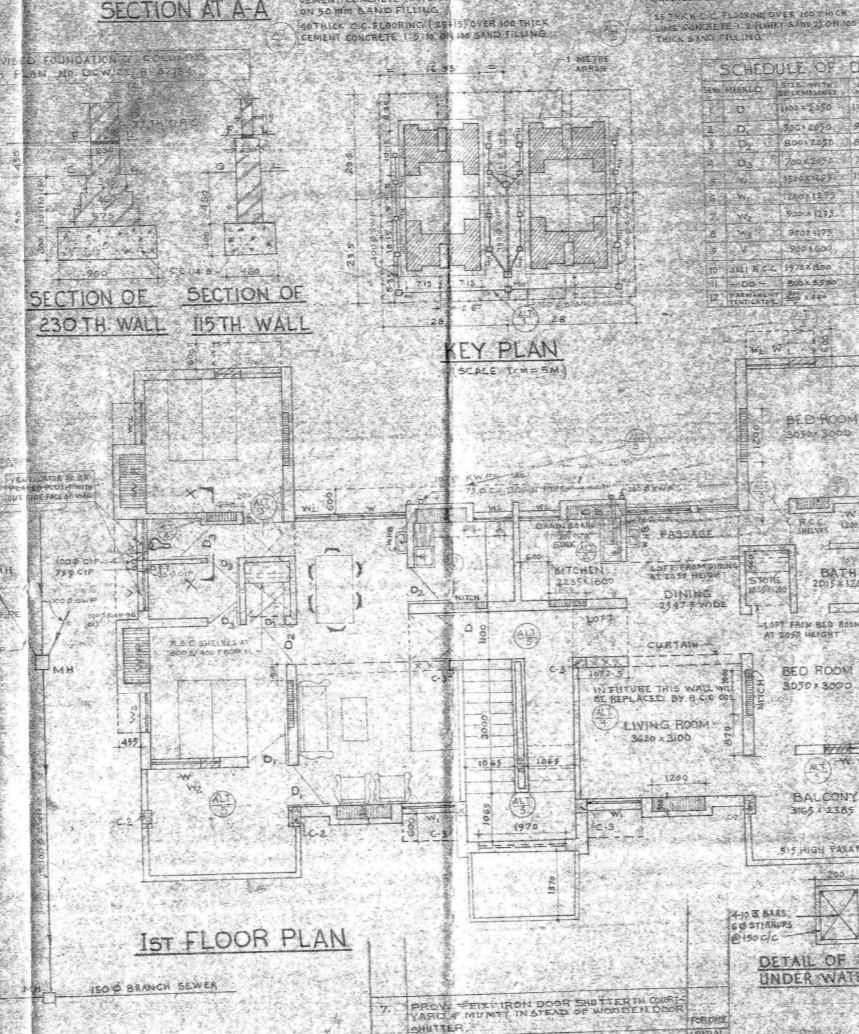


SECTION AT B-B

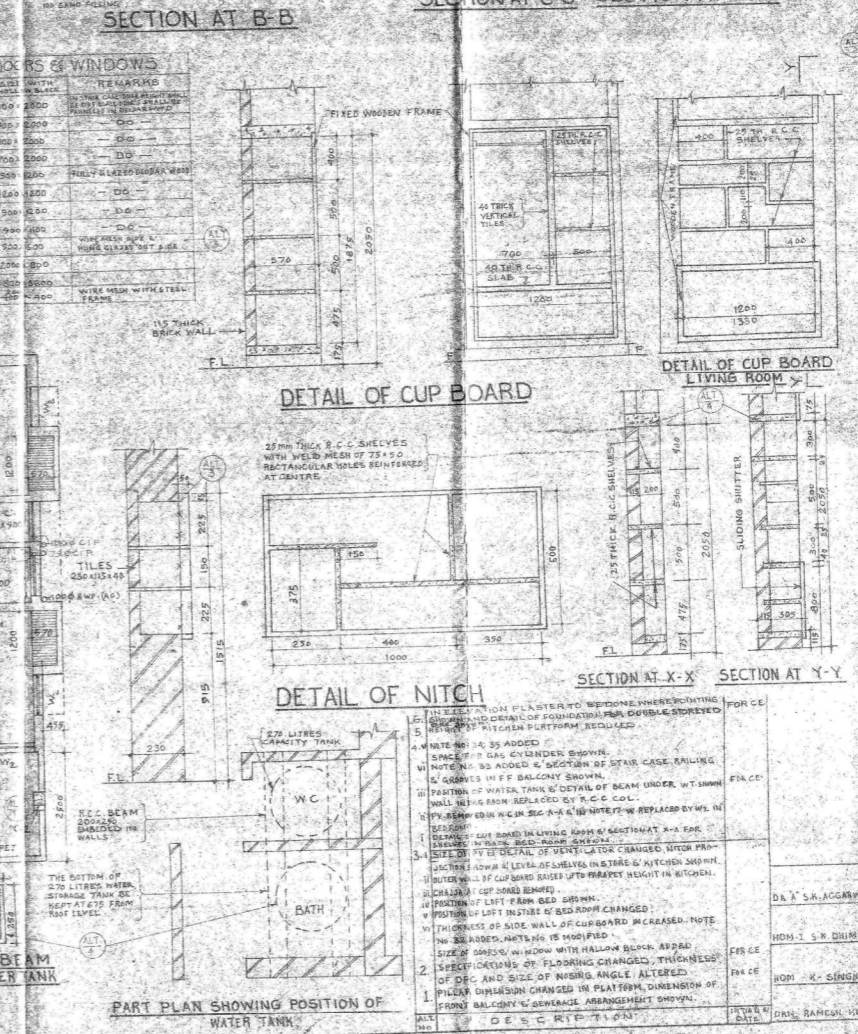
SECTION AT C-C SECTION AT D-D



GROUND FLOOR PLAN



1st FLOOR PLAN



KEY PLAN

DETAIL OF CUP BOARD

DETAIL OF NICH

DETAIL OF BEAM UNDER WATER TANK

PART PLAN SHOWING POSITION OF WATER TANK

SCHEDULE OF DOORS & WINDOWS

NO.	TYPE	SIZE (mm)	REMARKS
1	D	1100 x 2100	WOODEN DOOR WITH GLASS PANEL
2	D	900 x 2100	WOODEN DOOR
3	D	800 x 2100	WOODEN DOOR
4	D	700 x 2100	WOODEN DOOR
5	D	1200 x 2100	WOODEN DOOR WITH GLASS PANEL
6	W	1200 x 1800	WOODEN WINDOW WITH SHUTTERS
7	W	900 x 1800	WOODEN WINDOW
8	W	800 x 1800	WOODEN WINDOW
9	W	700 x 1800	WOODEN WINDOW
10	W	1200 x 1800	WOODEN WINDOW WITH SHUTTERS
11	W	900 x 1800	WOODEN WINDOW
12	W	800 x 1800	WOODEN WINDOW
13	W	700 x 1800	WOODEN WINDOW
14	W	1200 x 1800	WOODEN WINDOW WITH SHUTTERS
15	W	900 x 1800	WOODEN WINDOW
16	W	800 x 1800	WOODEN WINDOW
17	W	700 x 1800	WOODEN WINDOW
18	W	1200 x 1800	WOODEN WINDOW WITH SHUTTERS
19	W	900 x 1800	WOODEN WINDOW
20	W	800 x 1800	WOODEN WINDOW
21	W	700 x 1800	WOODEN WINDOW

TRUE COPY

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DEPTH AND WIDTH OF FOUNDATION MAY VARY ACCORDING TO LOCAL CONDITIONS AS SHOWN IN DRAWING. MAXIMUM TO BE AT 400.
3. ALL BACK WORK TO BE IN PLACE WITHIN 10 DAYS OF COMMENCEMENT OF WORK.
4. ALL BRICK WORK TO BE IN PLACE WITHIN 10 DAYS OF COMMENCEMENT OF WORK.
5. ALL BRICK WORK TO BE IN PLACE WITHIN 10 DAYS OF COMMENCEMENT OF WORK.
6. ALL BRICK WORK TO BE IN PLACE WITHIN 10 DAYS OF COMMENCEMENT OF WORK.
7. FLOOR OF THE BATH & W.C. WILL BE IN MOSAIC AND TO BE FINISHED TO LEVEL OF MAIN FLOOR.
8. FOUR TAPS 12MM Ø EACH TO BE PROVIDED AS MENTIONED BELOW IN BATHROOM AT A HEIGHT OF 1000 FROM FLOOR LEVEL.
9. IN W.C.
10. IN KITCHEN
11. SHOWER IN BATH ROOM
12. STANDARD FIT LINTEL AS PER PLAN III - DC/CS
13. R.C. SHELVE
14. RAIN
15. ALL DOORS AND WINDOWS TO BE FINISHED TO BE FINISHED TO ALL WALL EXCEPT COURT YARD WALLS WHICH WILL BE 25 THICK.
16. FOR R.C. DETAIL OF ROOF SLAB, BEAM & STAIR CASE REFER TO PLAN III - DC/CS.
17. 4 THICK CUP BOARD UNITS OF HARD PARTIAL BRICKS IN KITCHEN SHALL BE TO BE PROVIDED IN ALL EXTERNAL WALLS. EXTERNAL VENTILATORS TO BE PROVIDED IN SUBSIDIARY WALLS IN KITCHEN. FRAME TO BE PROVIDED IN KITCHEN AND VENTILATED ANGLES TO BE PROVIDED IN BATHROOM AND KITCHEN.
18. ALL ANGLE IRON FRAME TO BE PROVIDED FOR DOORS, WINDOWS, VENTILATORS WITH HINGES WELDED IN FRAME AS WELL AS WELDED WITH COPPER STRIPS MAXIMUM 2 ROWS.
19. KITCHEN WORKING PLATFORM WILL BE FINISHED TO MOSAIC FINISH 500 HIGH OVER THE PLATFORM OR FINISHED TO FLOOR LEVEL.
20. WITH HOLLOW BLOCK
21. ALL THICKNESS OF 230 TO BE 230 THICK BLOCK.
22. ALL THICKNESS OF 230 TO BE 230 THICK BLOCK.
23. ALL THICKNESS OF 230 TO BE 230 THICK BLOCK.
24. TOTAL LENGTH OF WALL SHALL BE ADJUSTED TO FIT THE TOTAL LENGTH OF EACH UNIT AS GIVEN IN THE PLANS TO BE OBTAINED BY FINDING THE 230 X 230 X 400 TAKING INTO THE 230 X 230 X 400 AND THE SIZE OF THE ROOMS TO BE INCREASED AS THE CASE MAY BE. THE 230 X 230 X 400 SHALL BE PROVIDED IN THE SIZE OF THE WALLS. CUP BOARD AND NICH TO BE ADJUSTED ACCORDING TO THE 230 X 230 X 400.
25. PLATE SIZE IN FRONT PLATFORM TO BE 400 X 400.
26. LINTEL TO BE 200 X 200 X 200.
27. RE DEPTH OF WARE ROBE TO BE 400 IN PLACE OF 370.
28. BANK JAMBES OF DOORS AND WINDOWS COURSES AT SIL LEVEL AND BELOW ROOF LEVEL SHALL BE OF SOLID R.C. BLOCK.
29. 230 THICK R.C. SHELVE SHALL BE PROVIDED TO BE PROVIDED WITH WELD MESH OF 75 X 50 WITH RECTANGULAR HOLES REINFORCED AT CORNER.
30. DETAIL OF STRIP CASE REFER PLAN III - DC/CS.
31. DETAIL OF NICH SHALL BE FINISHED TO MOSAIC FINISH 500 HIGH OVER THE PLATFORM OR FINISHED TO FLOOR LEVEL TO ACCORD WITH VENT PIPES.
32. R.C. COLLUMS SHOWN IN PLAN (IN CASE OF THREE STOREY CO. QUARTERS PROVIDED).

PLINTH AREA 56.70 SQM

DESIGNER: [Name]

CHIEF ENGINEER: [Name]

CONV. CIVIL ENGINEER: [Name]

ASSISTANT ENGINEER (FIELD): [Name]

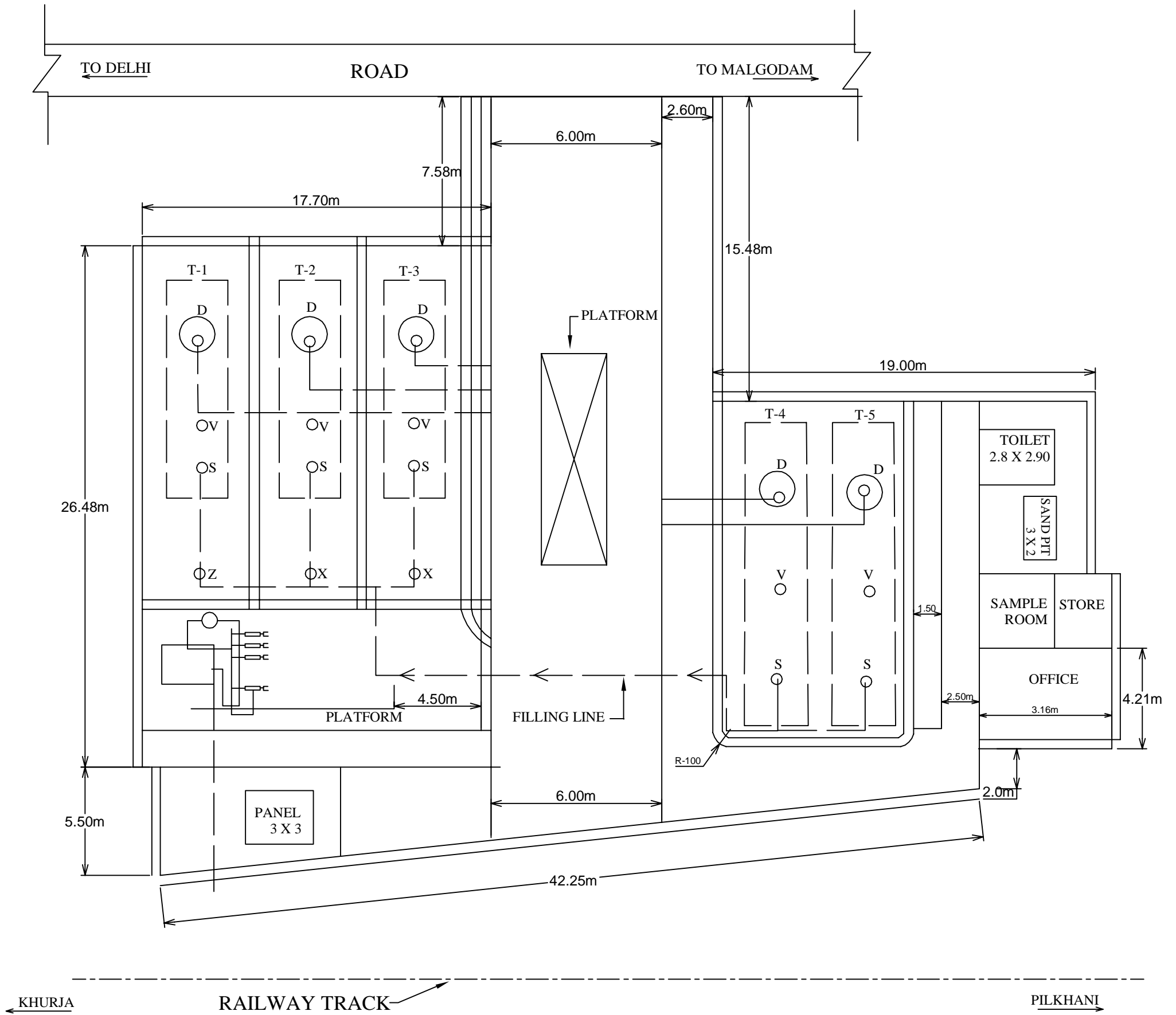
DIESEL COMPONENT WORKS PATIALA

STANDARD TYPE III QUARTERS DOUBLE STORED

SCALE: 1/5, 1/28, 1/1

PLAN NO: DCW/CE/R/18/82 ALT 3

**INDICATIVE SITE PLAN OF BHARAT PETROLEUM DEPOT FALLING ON ALIGNMENT OF EDFC IN SAHARANPUR YARD REQUIRED TO BE RELOCATED**



**DETAILS OF TANKS**

S.R. NO.	TANK SIZE IN METERS	CAPACITY.(KL)
T1	2.74 X 12.85	70
T2	2.74 X 12.00	68
T3	3.18 X 11.50	90
T4	4.10 X 14.65	200
T5	4.10 X 14.65	200

NOTE :-  
THIS IS INDICATIVE LAYOUT PLAN OF THE BPCL FACILITY AT SAHARANPUR YARD. THE CST CONTRACTOR SHOULD CONSIDER ALL OTHER RELATED TECHNICAL EQUIPMENTS AND T&P REQUIRED TO MAKE IT FULLY FUNCTIONAL AT THE SHIFTED LOCATION FOR BIDDING PURPOSE.

**INDICATIVE DRAWING**

SCALE NTS	GENERAL CONSULTANT <b>AECOM</b> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	TITLE <b>MINIMUM BALLAST PROFILE SINGLE LINE B.G. FOR STRAIGHTS &amp; CURVES</b>	 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE) <b>EASTERN CORRIDOR</b>
		Drg No. DFC/2016/BPD	