



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

BRIDGE DRAWINGS - VOLUME - 5.2

KHURJA TO PILKHANI

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

GAD BRIDGES

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

CONTENTS BRIDGE DRAWING (CONTRACT PACKAGE 303)

CONTENTS BRIDGE DRAWING (CONTRACT PACKAGE 303)

SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS
1	GAD FOR ROB NO. 219A	AECOM/303/ROB/219A	RO		31	GAD FOR MAJOR BRIDGE NO. D/MOZ 61	AECOM/303/MJR/ D/MOZ 61	RO	
2	GAD FOR MAJOR BRIDGE NO.11	AECOM/303/MJR/11	RO		32	GAD FOR MAJOR BRIDGE NO. D/MOZ 71	AECOM/303/MJR/ D/MOZ 71	RO	
3	GAD FOR MAJOR BRIDGE NO.32&32A	AECOM/303/MJR/32&32A	RO		33	GAD FOR MAJOR BRIDGE NO. D/MOZ 81	AECOM/303/MJR/ D/MOZ 81	RO	
4	GAD FOR MAJOR BRIDGE NO.85	AECOM/303/MJR/85	RO		34	GAD FOR MAJOR BRIDGE NO. D/MOZ 90	AECOM/303/MJR/ D/MOZ 90	RO	
5	GAD FOR MAJOR BRIDGE NO. D/MTC 1	AECOM/303/MJR/D/MTC 1	RO		35	GAD FOR MAJOR BRIDGE NO. D/MOZ 104	AECOM/303/MJR/ D/MOZ 104	RO	
6	GAD FOR MAJOR BRIDGE NO. D/MTC 4	AECOM/303/MJR/D/MTC 4	RO		36	GAD FOR MAJOR BRIDGE NO.210	AECOM/303/MJR/210	RO	
7	GAD FOR MAJOR BRIDGE NO. D/MTC 40	AECOM/303/MJR/D/MTC 40	RO		37	GAD FOR MAJOR BRIDGE NO.219	AECOM/303/MJR/219	RO	
8	GAD FOR MAJOR BRIDGE NO. D/MTC 139	AECOM/303/MJR/D/MTC 139	RO		38	GAD FOR MAJOR BRIDGE NO.227	AECOM/303/MJR/227	RO	
9	GAD FOR MAJOR BRIDGE NO. D/MTC 163	AECOM/303/MJR/D/MTC 163	RO		39	GAD FOR RFO NO. 1	AECOM/303/RFO/1	RO	
10	GAD FOR MAJOR BRIDGE NO. D/MTC 180	AECOM/303/MJR/D/MTC 180	RO		40	GAD FOR RFO NO. 2	AECOM/303/RFO/2	RO	
11	GAD FOR MAJOR BRIDGE NO. D/MTC 182	AECOM/303/MJR/D/MTC 182	RO		41	GAD FOR RFO NO. 3	AECOM/303/RFO/3	RO	
12	GAD FOR MAJOR BRIDGE NO. D/MTC 190	AECOM/303/MJR/D/MTC 190	RO		42	GAD FOR RFO NO. 4	AECOM/303/RFO/4	RO	
13	GAD FOR MAJOR BRIDGE NO. D/MTC 207	AECOM/303/MJR/D/MTC 207	RO		43	GAD FOR MJ - RUB NO. D/MTC 3	AECOM/303/MJ-RUB/D/MTC 3	RO	
14	GAD FOR MAJOR BRIDGE NO. D/MTC 212	AECOM/303/MJR/D/MTC 212	RO		44	GAD FOR MJ - RUB NO. D/MTC 19	AECOM/303/MJ-RUB/D/MTC 19	RO	
15	GAD FOR MAJOR BRIDGE NO. D/MTC 214	AECOM/303/MJR/D/MTC 214	RO		45	GAD FOR MJ - RUB NO. D/MTC 27	AECOM/303/MJ-RUB/D/MTC 27	RO	
16	GAD FOR MAJOR BRIDGE NO. D/MTC 217	AECOM/303/MJR/D/MTC 217	RO		46	GAD FOR MJ - RUB NO. D/MTC 55	AECOM/303/MJ-RUB/D/MTC 55	RO	
17	GAD FOR MAJOR BRIDGE NO. D/MTC 224	AECOM/303/MJR/D/MTC 224	RO		47	GAD FOR MJ - RUB NO. D/MTC 69	AECOM/303/MJ-RUB/D/MTC 69	RO	
18	GAD FOR MAJOR BRIDGE NO. D/MTC 237	AECOM/303/MJR/D/MTC 237	RO		48	GAD FOR MJ - RUB NO. D/MTC 90	AECOM/303/MJ-RUB/D/MTC 90	RO	
19	GAD FOR MAJOR BRIDGE NO. D/MTC 241	AECOM/303/MJR/D/MTC 241	RO		49	GAD FOR MJ - RUB NO. D/MTC 92	AECOM/303/MJ-RUB/D/MTC 92	RO	
20	GAD FOR MAJOR BRIDGE NO. D/MTC 246	AECOM/303/MJR/D/MTC 246	RO		50	GAD FOR MJ - RUB NO. D/MTC 115	AECOM/303/MJ-RUB/D/MTC 115	RO	
21	GAD FOR MAJOR BRIDGE NO. D/MTC 269	AECOM/303/MJR/D/MTC 269	RO		51	GAD FOR MJ - RUB NO. D/MTC 120	AECOM/303/MJ-RUB/D/MTC 120	RO	
22	GAD FOR MAJOR BRIDGE NO. D/MTC 282	AECOM/303/MJR/D/MTC 282	RO		52	GAD FOR MJ - RUB NO. D/MTC 138	AECOM/303/MJ-RUB/D/MTC 138	RO	
23	GAD FOR MAJOR BRIDGE NO. D/MTC 286	AECOM/303/MJR/D/MTC 286	RO		53	GAD FOR MJ - RUB NO. D/MTC 144	AECOM/303/MJ-RUB/D/MTC 144	RO	
24	GAD FOR MAJOR BRIDGE NO.154	AECOM/303/MJR/154	RO		54	GAD FOR MJ - RUB NO. D/MTC 146	AECOM/303/MJ-RUB/D/MTC 146	RO	
25	GAD FOR MAJOR BRIDGE NO. D/MOZ 4	AECOM/303/MJR/ D/MOZ 4	RO		55	GAD FOR MJ - RUB NO. D/MTC 162	AECOM/303/MJ-RUB/D/MTC 162	RO	
26	GAD FOR MAJOR BRIDGE NO. D/MOZ 12	AECOM/303/MJR/ D/MOZ 12	RO		56	GAD FOR MJ - RUB NO. D/MTC 171	AECOM/303/MJ-RUB/D/MTC 171	RO	
27	GAD FOR MAJOR BRIDGE NO. D/MOZ 25	AECOM/303/MJR/ D/MOZ 25	RO		57	GAD FOR MJ - RUB NO. D/MTC 198	AECOM/303/MJ-RUB/D/MTC 198	RO	
28	GAD FOR MAJOR BRIDGE NO. D/MOZ 30	AECOM/303/MJR/ D/MOZ 30	RO		58	GAD FOR MJ - RUB NO. D/MTC 206	AECOM/303/MJ-RUB/D/MTC 206	RO	
29	GAD FOR MAJOR BRIDGE NO. D/MOZ 37	AECOM/303/MJR/ D/MOZ 37	RO		59	GAD FOR MJ - RUB NO. D/MTC 215	AECOM/303/MJ-RUB/D/MTC 215	RO	
30	GAD FOR MAJOR BRIDGE NO. D/MOZ 59	AECOM/303/MJR/ D/MOZ 59	RO		60	GAD FOR MJ - RUB NO. D/MTC 235	AECOM/303/MJ-RUB/D/MTC 235	RO	

GENERAL CONSULTANT



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

TITLE

**CONTENTS BRIDGE
DRAWING
(303)**



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
(A GOVERNMENT OF INDIA ENTERPRISE)

EASTERN CORRIDOR

PROJECT

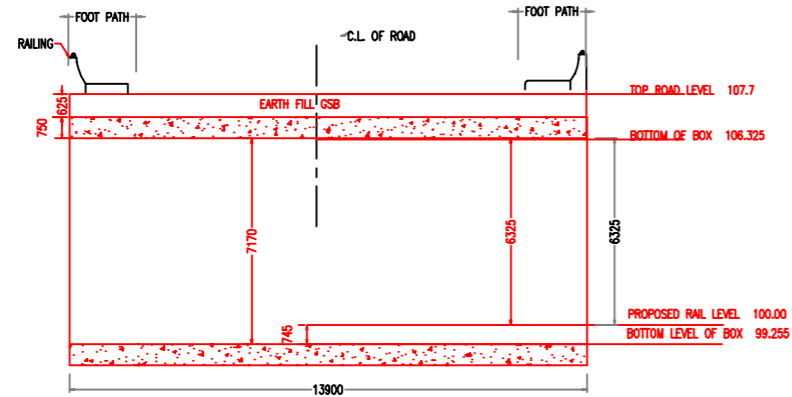
KHURJA TO PILKHANI

Contract Package: 303

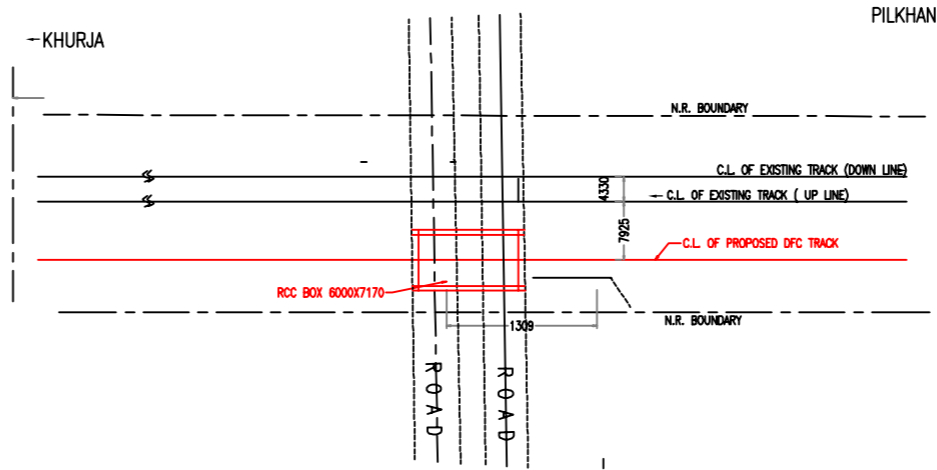
KHURJA TO PILKHANI

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

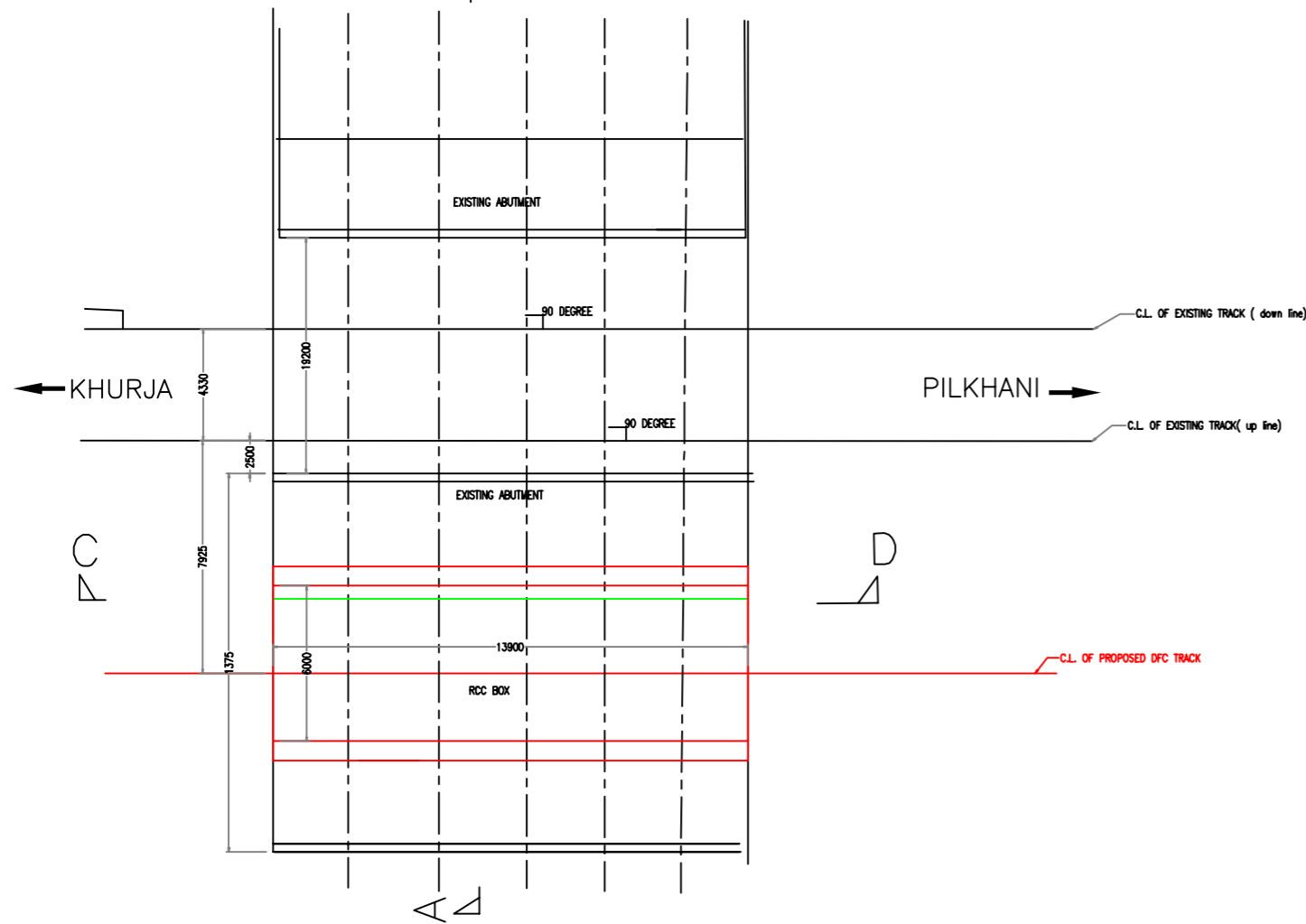
GAD OF ROBS



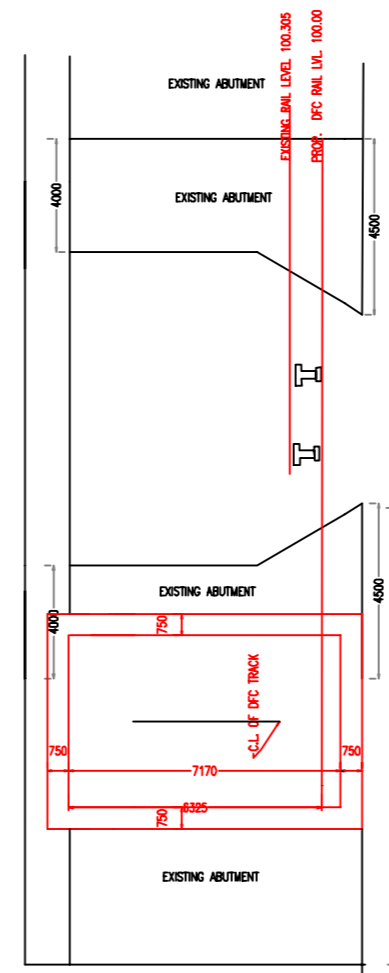
SECTION AT C-D



SITE PLAN



PLAN




SECTION AT A-B

NOTES :-

- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
- DO NOT SCALE. FOLLOW THE WRITTEN DIMENSIONS ONLY.
- CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT BIS CODES.
- LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
- HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS REINFORCEMENT.
- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
- ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL).
- THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL.
- WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/BALAST RETAINER.
- DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
- TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
- WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
- THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
- THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 750mm.
- PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
- SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS.
- SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
- BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.
- THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.
- SANCTION OF CRS SHALL BE OBTAINED FOR PROPOSED WORK AS PER IRPW/M.
- R.C.C. CRASH BARRIER WILL BE PROVIDED AS PER APPROVED DRAWING.
- DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODE AS PER APPROVED BY M.O.S.T.
- TEMP. SIGNALING ARRANGEMENT WILL BE DONE AS PER G.R 15.09 (d) & S.R 15.09 (2) OR GR 15.09 (2)(b) & S.R 15.09 (2) WHICH EVER IS ADOPTABLE IF REQUIRED.
- LOADING BRIDGE SHALL BE DESIGNED FOR ONE LANE OR CLASS AA/70R LOADING OR DOUBLE LANES OF CLASS A WHICH EVER PRODUCES THE MAXIMUM STRESSES.
- PROVISION OF CLAMPS IN THE SUPERSTRUCTURE FOR SUPPORTING AC TRACTION WIRE TO BE MADE IN CONSULTATION WITH THE CONCERNED AUTHORITY.
- TEMPORARY ARRANGEMENT DRAWING OR METHODOLOGY FOR LAUNCHING OF GIRDERS OVER RAILWAY TRACK AND CONSTRUCTION OF FOUNDATIONS/SUBSTRUCTURE ADJACENT TO RAILWAY TRACK SHOULD BE GOT APPROVED FROM RAILWAY AUTHORITY BEFORE STARTING OF WORK.

INDICATIVE DRAWING

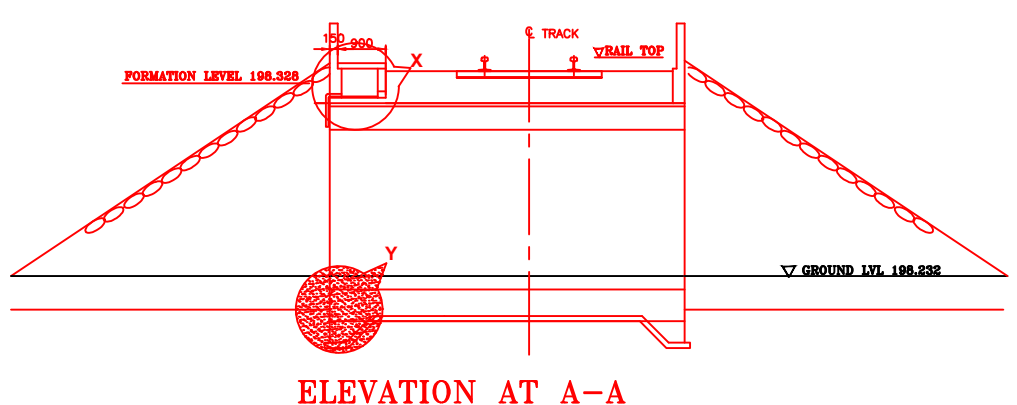
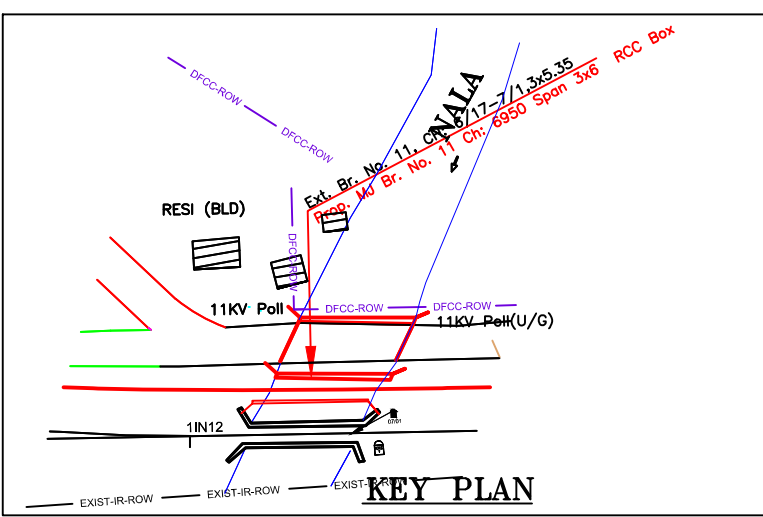
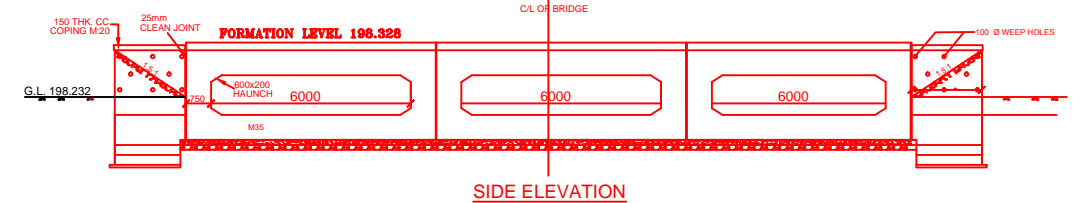
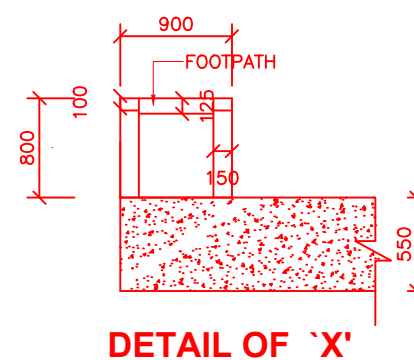
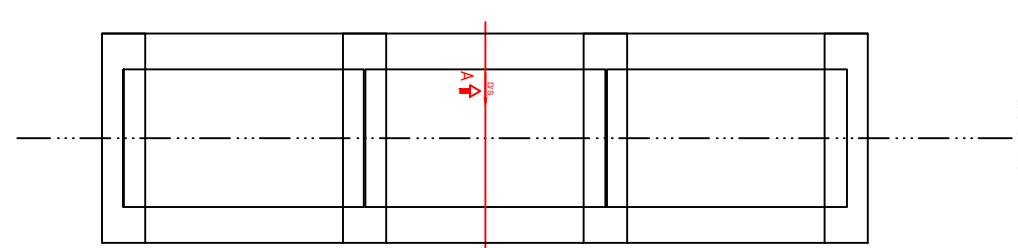
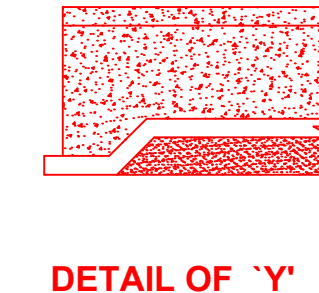
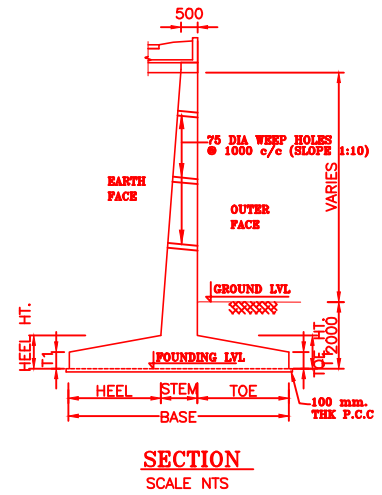
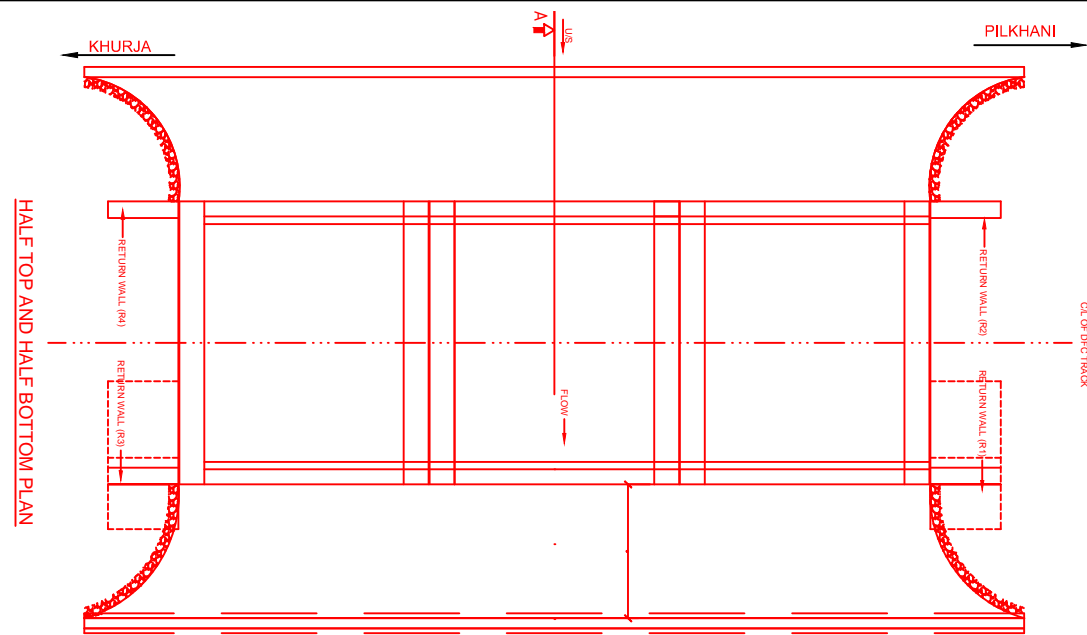
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GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MODIFICATION OF ROB. NO. 219A SPAN (1X6X7.17m) AT CH. 109145					
GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	MAY 2015				AECOM/303/ROB/219A	R

Contract Package: 303

KHURJA TO PILKHANI

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

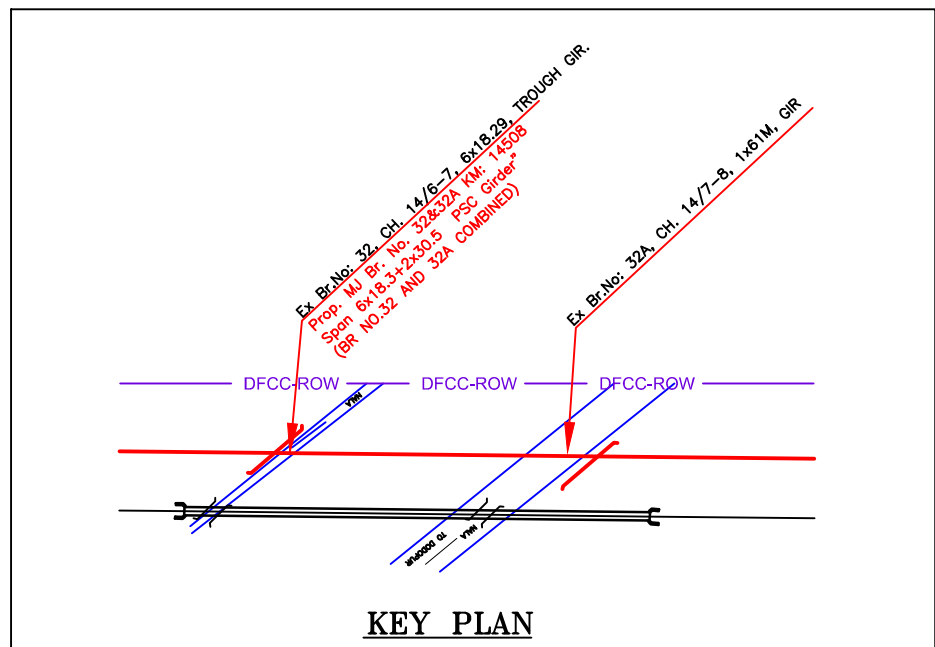
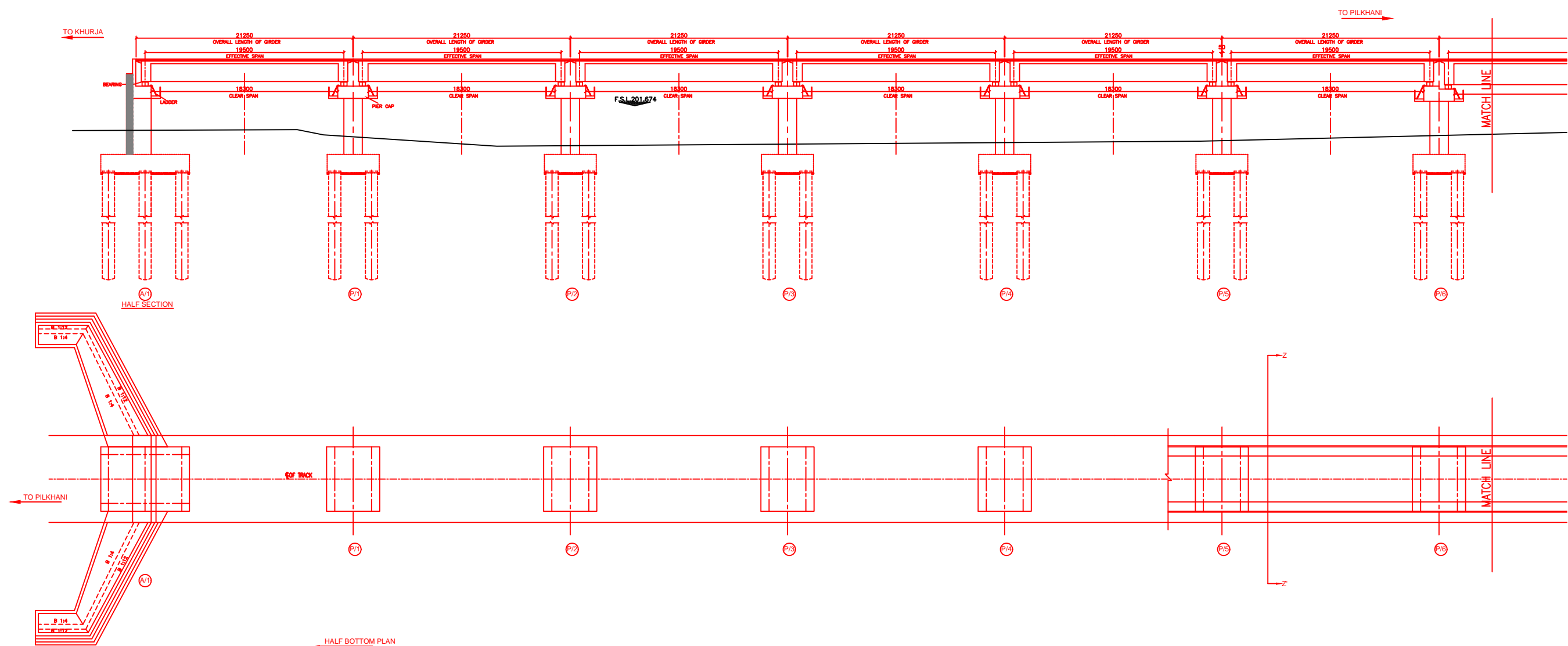
GAD OF MAJOR BRIDGES



- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY.
 - CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT BIS CODES.
 - LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL).
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL.
 - TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH.
 - WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ BALAST RETAINER.
 - DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
 - TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
 - THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 730mm.
 - PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
 - SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.
 - IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY THE CONTRACTOR WELL IN TIME.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

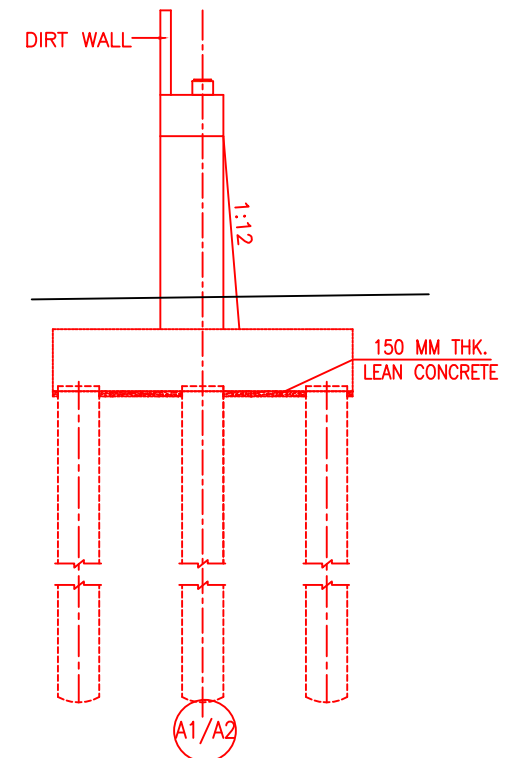
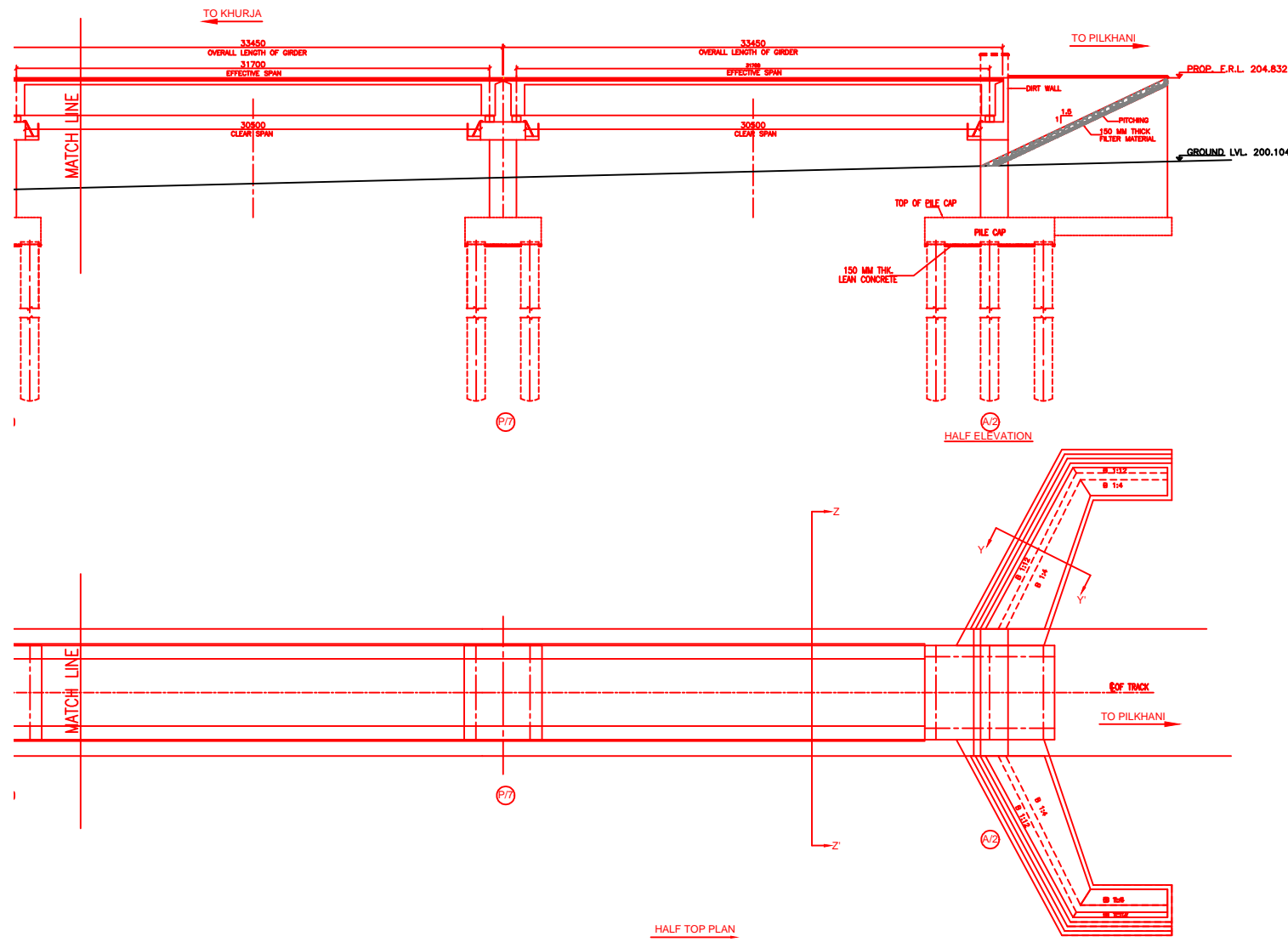
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd.				
		9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR				
		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303				
		PROPOSED MAJOR BR. NO. 11 SPAN (3X6) AT CH. 6950				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/11	R0

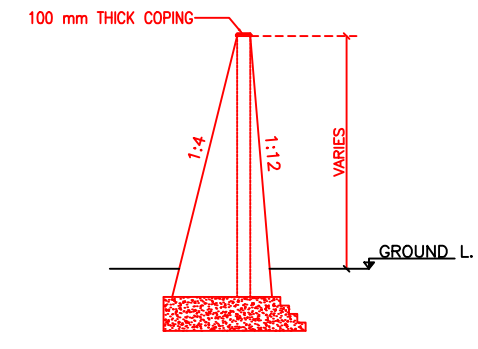


INDICATIVE DRAWING

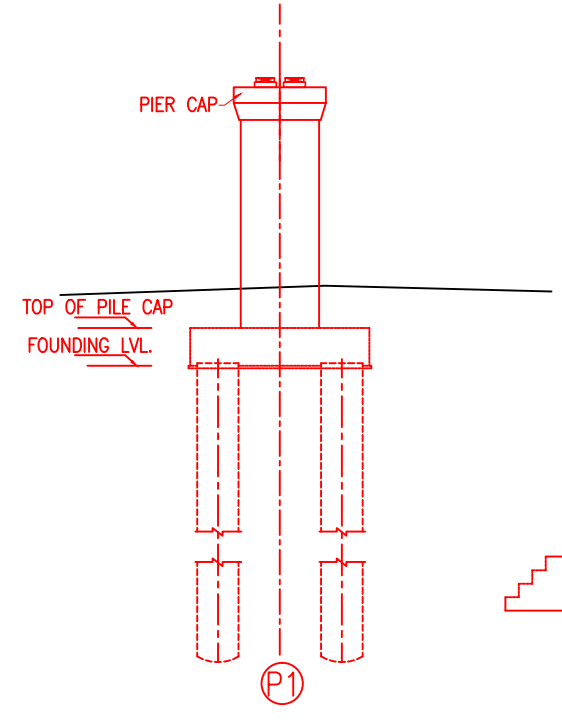
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GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. 32 & 32A SPAN (6X18.3+2X30.5m) AT CH. 14508					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/32&32A SHEET 1 OF 2	R0



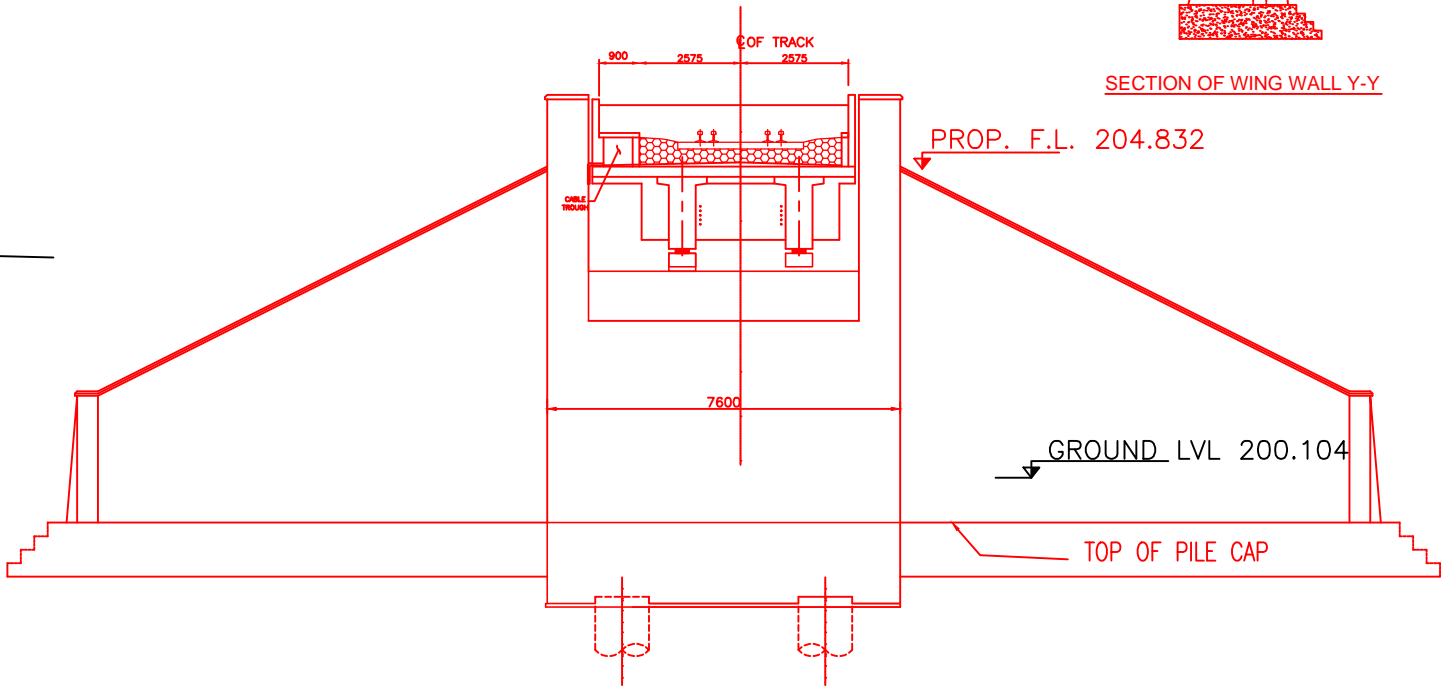
DETAIL OF ABUTMENT



SECTION OF WING WALL Y-Y



DETAIL OF PIER



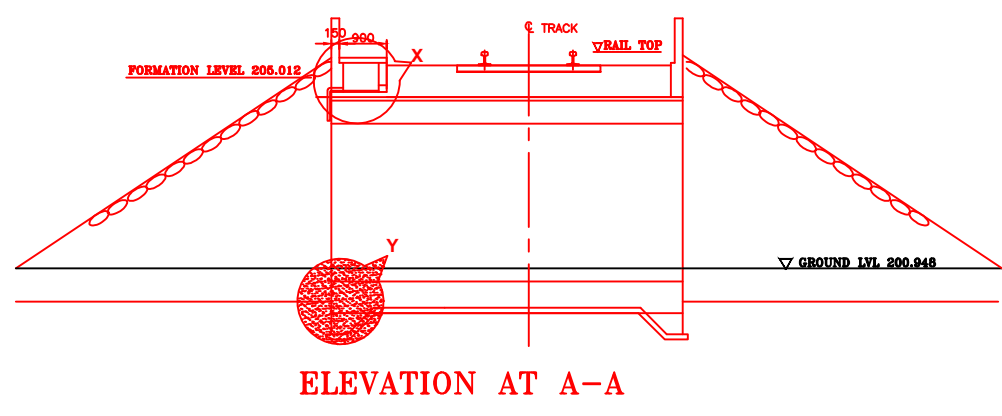
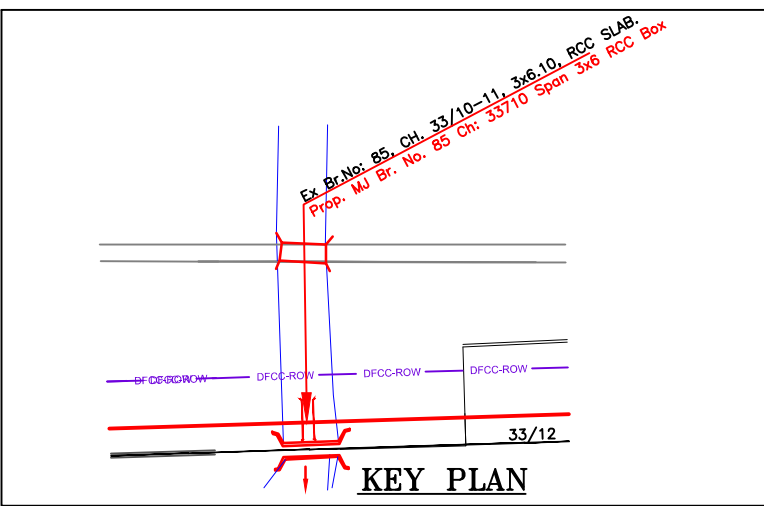
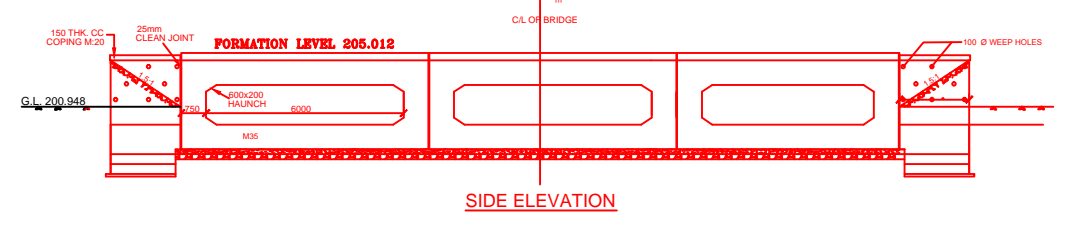
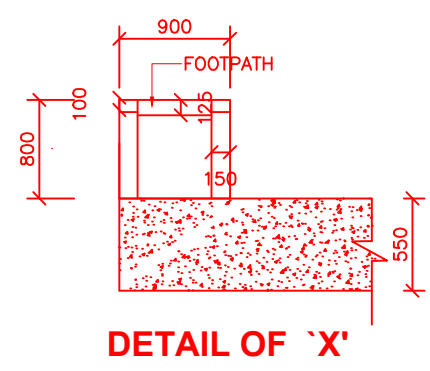
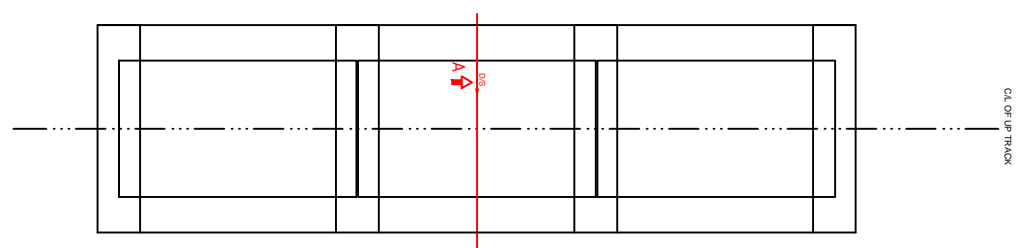
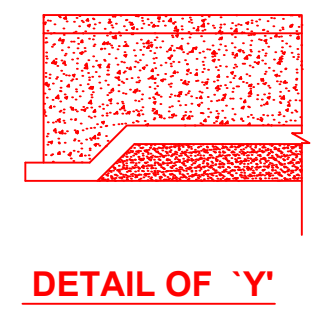
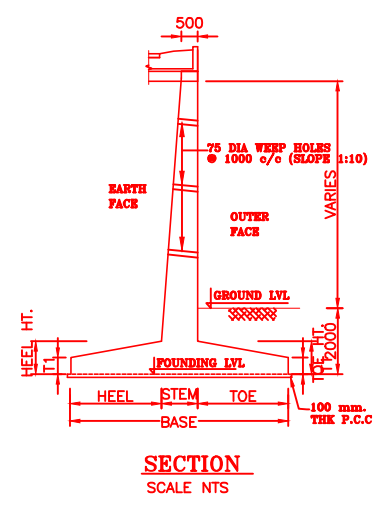
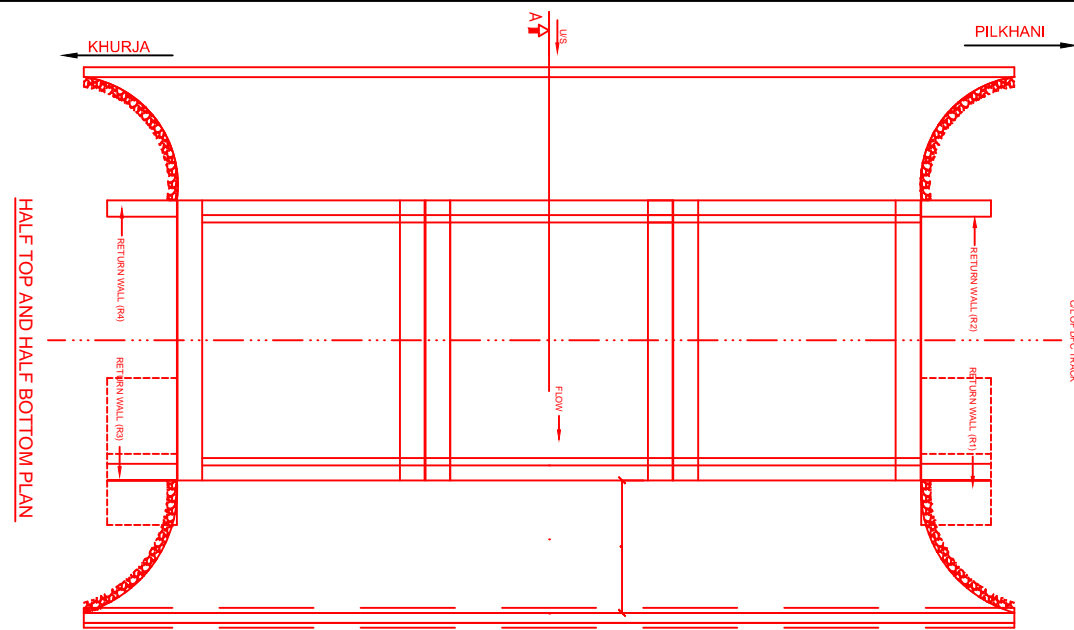
SECTION Z-Z

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
12. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
13. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
14. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT.
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS.
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. 32 & 32A SPAN (6X18.3+2X30.5m) AT CH. 14508				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/32&32A SHEET 2 OF 2	R0

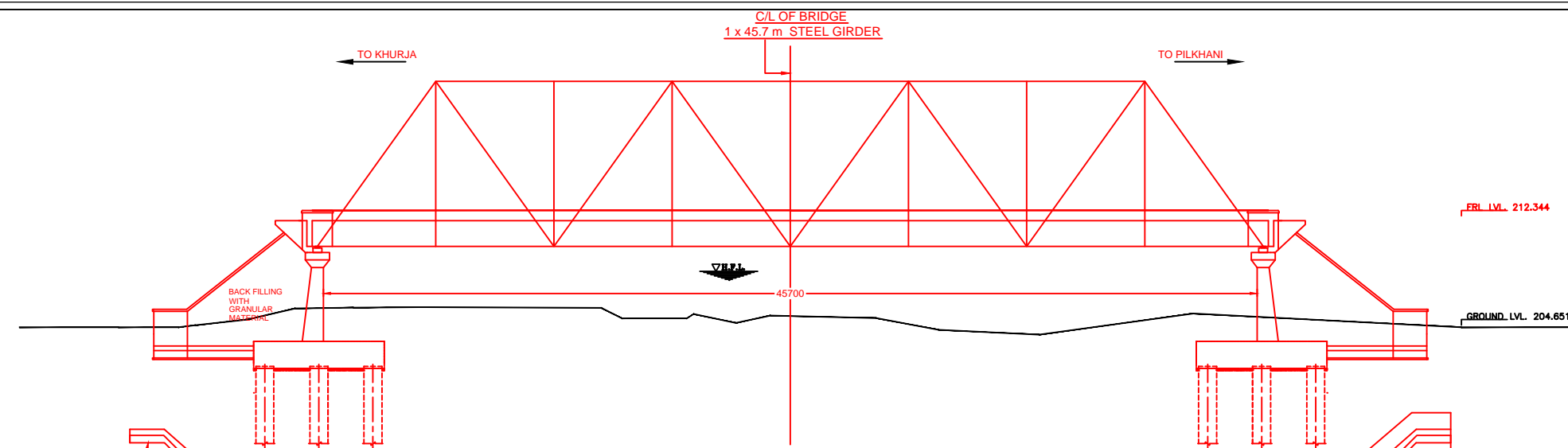


NOTES:-

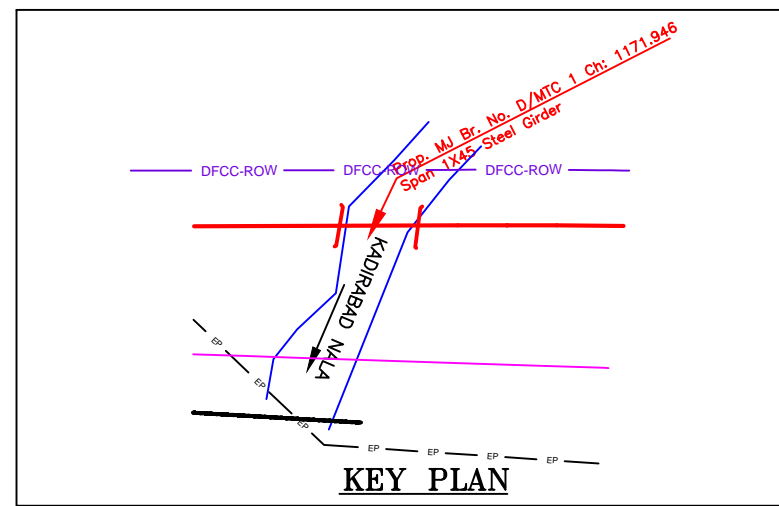
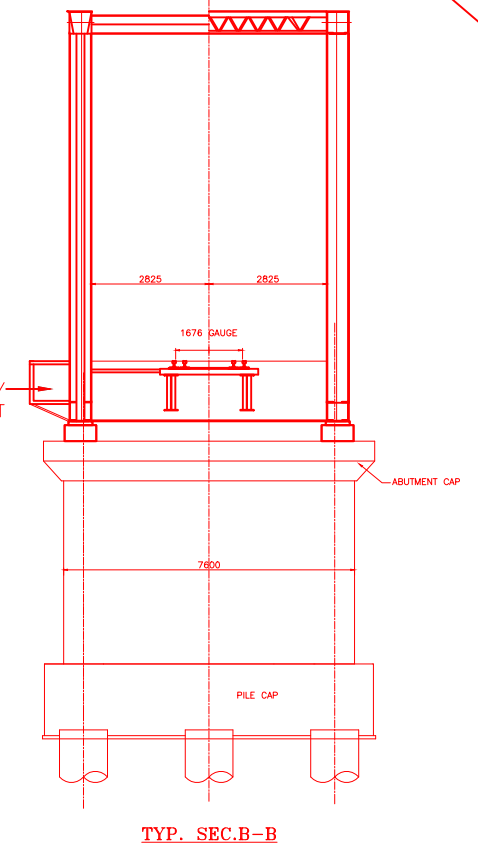
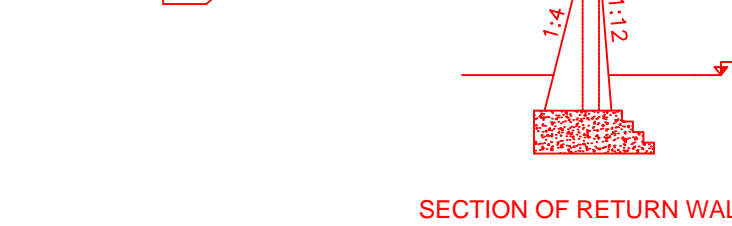
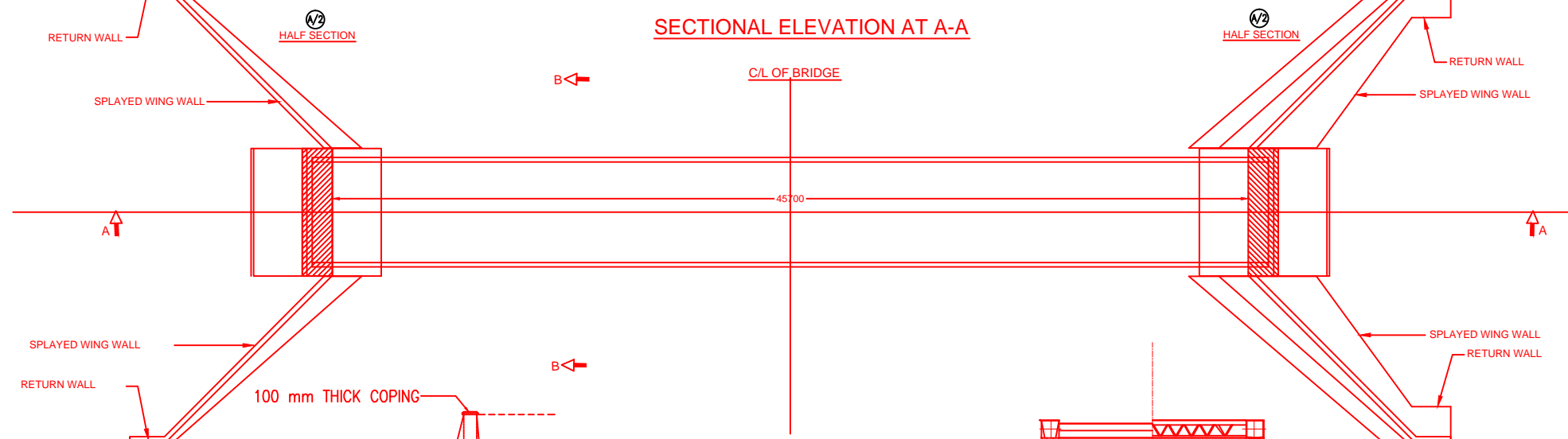
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY.
3. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 i) IRS BRIDGE RULES.
 ii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
7. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL).
8. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL.
9. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH.
10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
11. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ BALAST RETAINER.
12. DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
14. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
15. THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
16. THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 730mm.
17. PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
18. SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS.
19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
20. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.
21. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY THE CONTRACTOR WELL IN TIME.
22. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. 85 SPAN (3X6) AT CH. 33710				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/85	R0

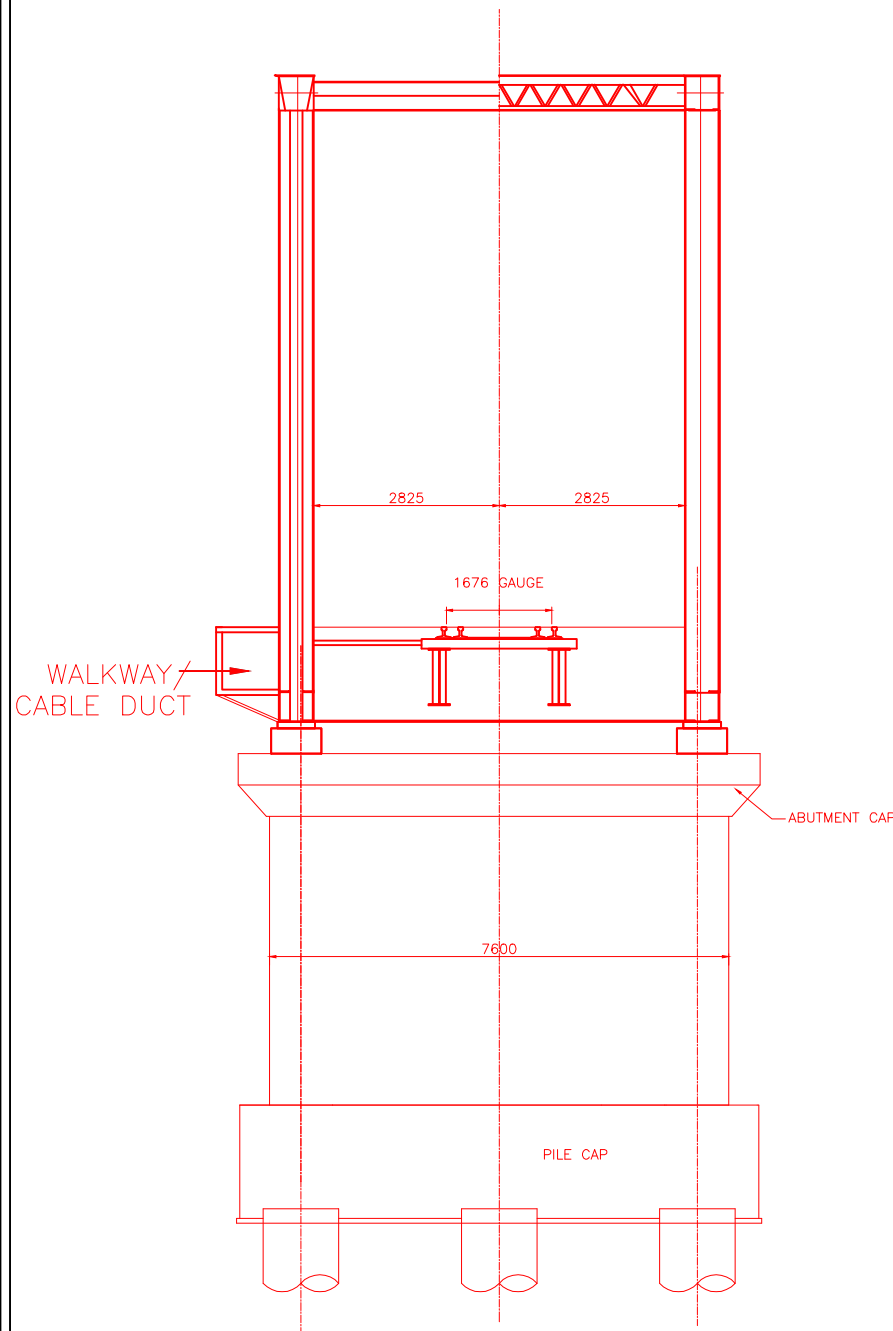


- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 - DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

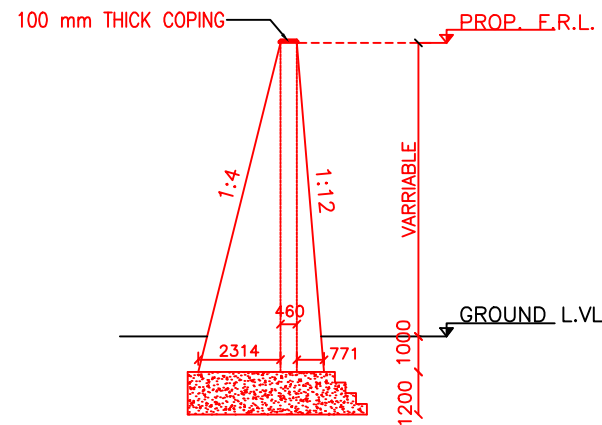


INDICATIVE DRAWING

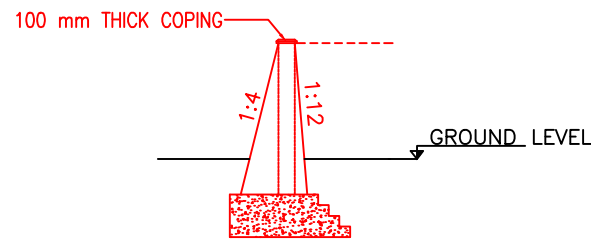
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MTC 1 SPAN (1X45.7m) AT CH. 1171.946				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC1	R0



TYP. SEC.B-B



SECTION OF WING WALL



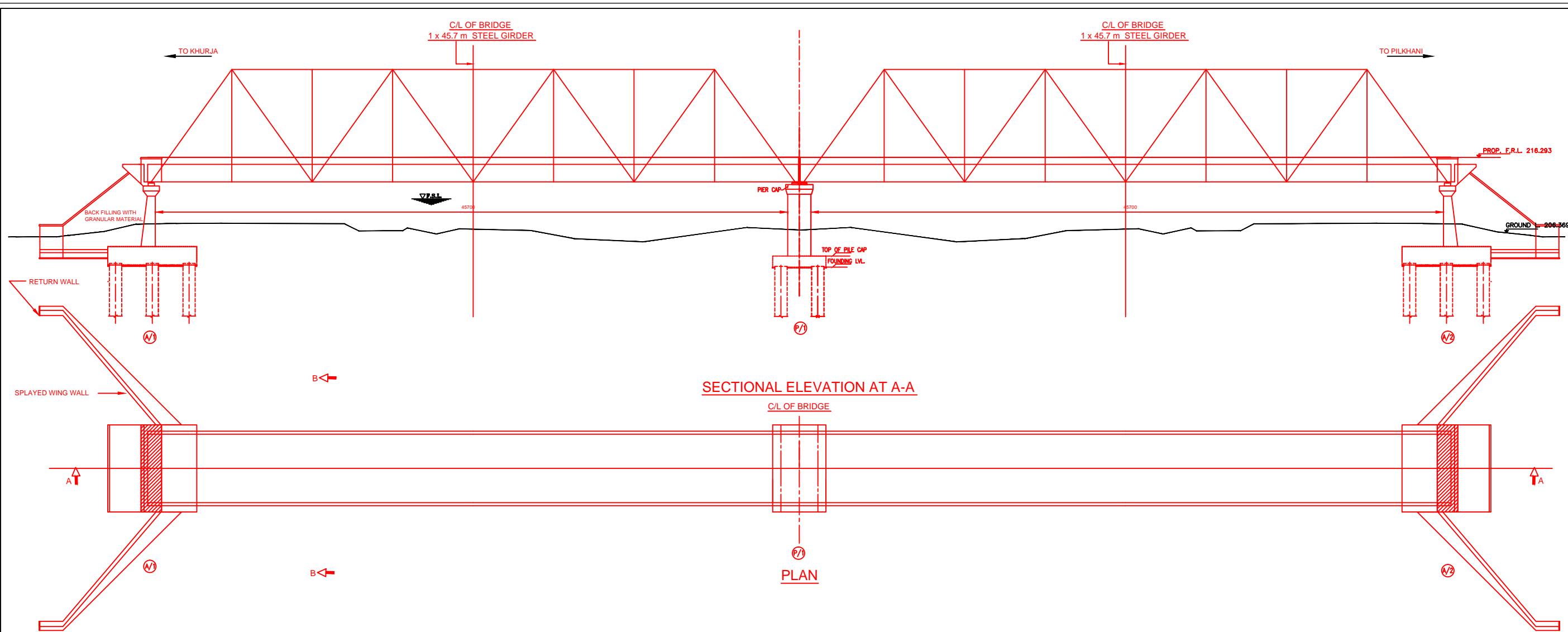
SECTION OF RETURN WALL

NOTES:-



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

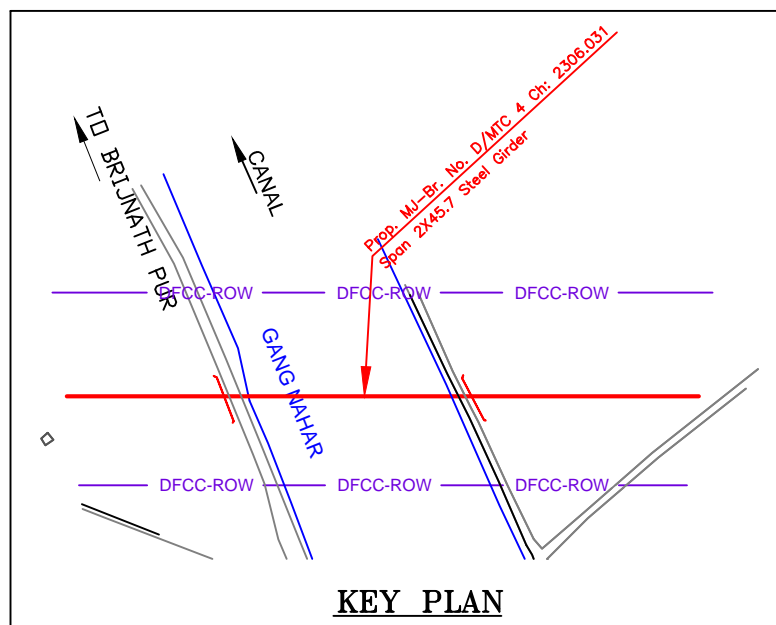
INDICATIVE DRAWING

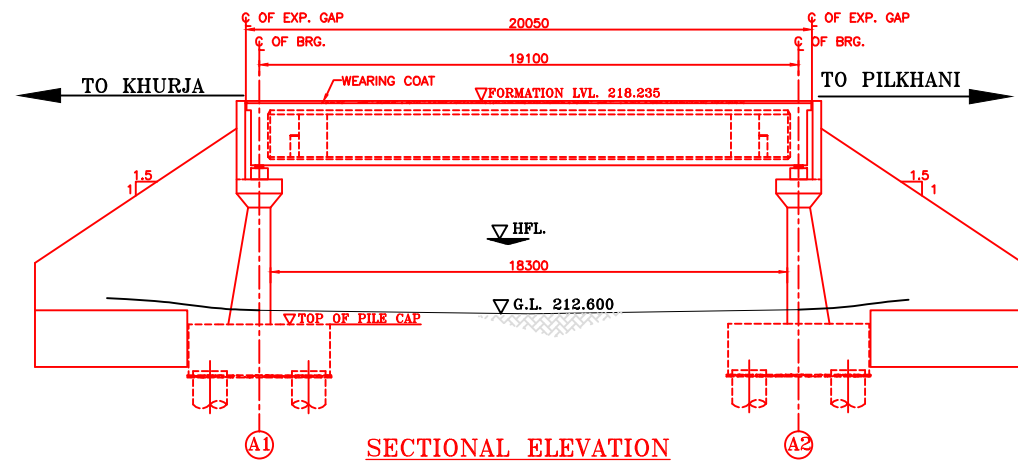
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR						
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 4 SPAN (2X45.7m) AT CH. 2306.031				
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC 4 SHEET 2 OF 2	R0



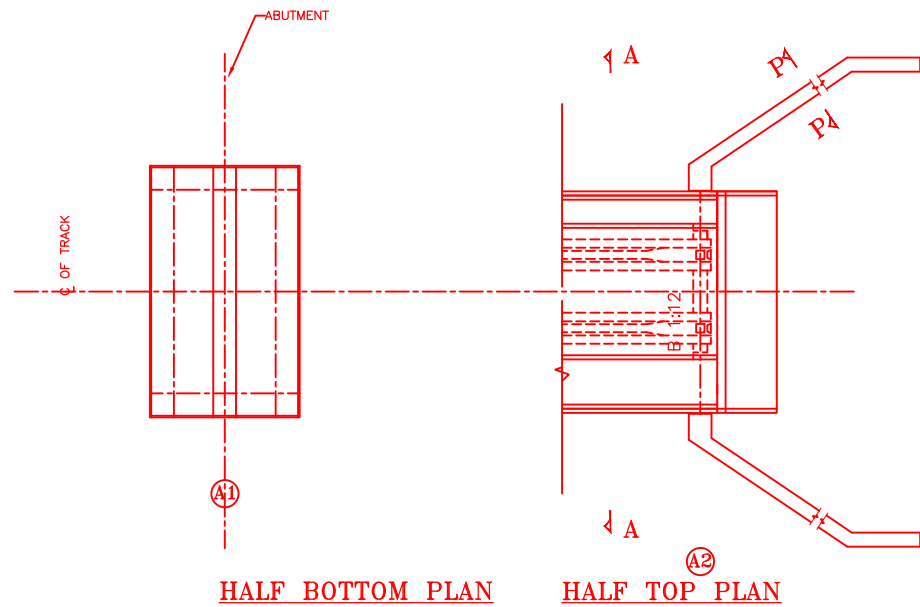
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 4 SPAN (2X45.7m) AT CH. 2306.031				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC 4 SHEET 1 OF 2	R0



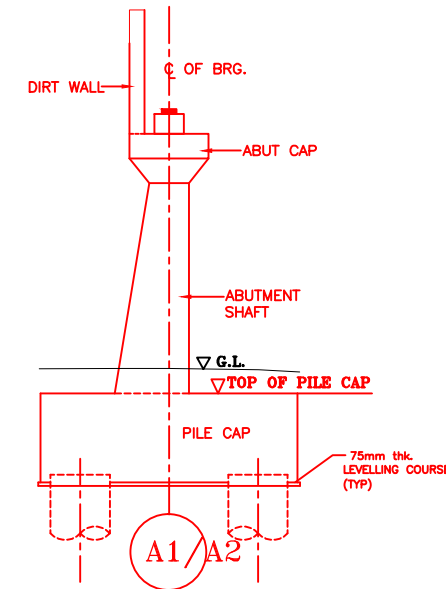


SECTIONAL ELEVATION

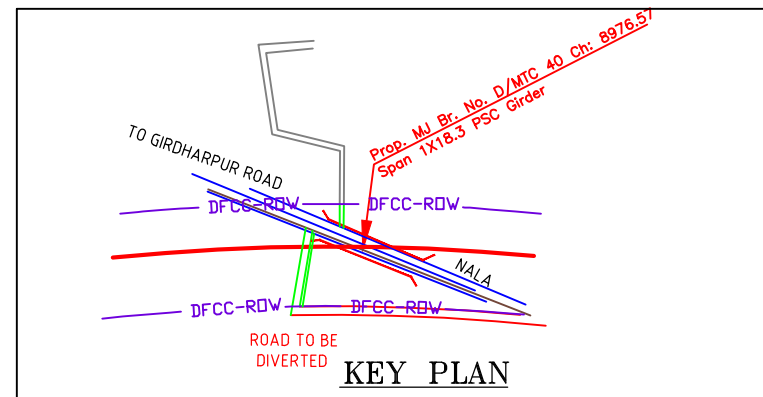


HALF BOTTOM PLAN

HALF TOP PLAN

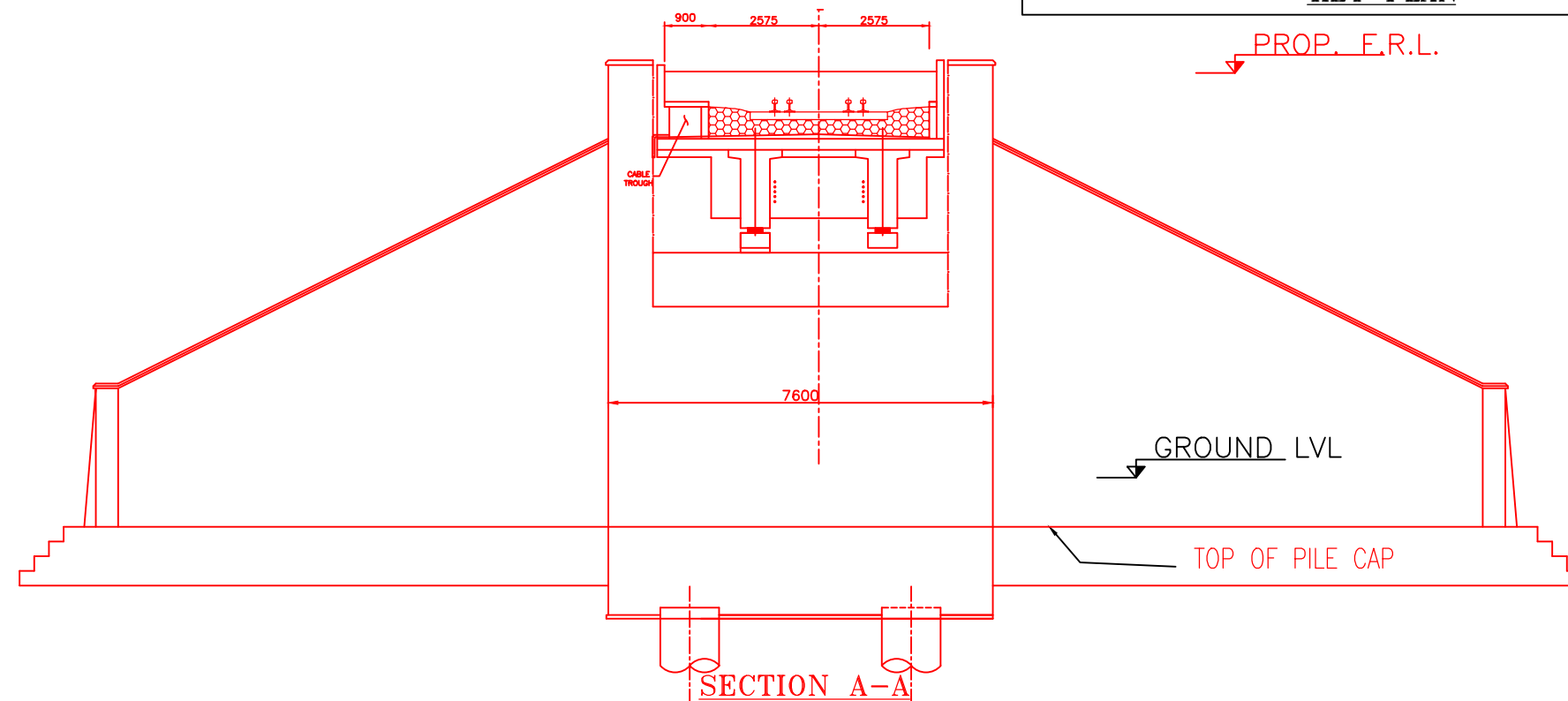


DETAIL OF ABUTMENT



KEY PLAN

PROP. E.R.L.




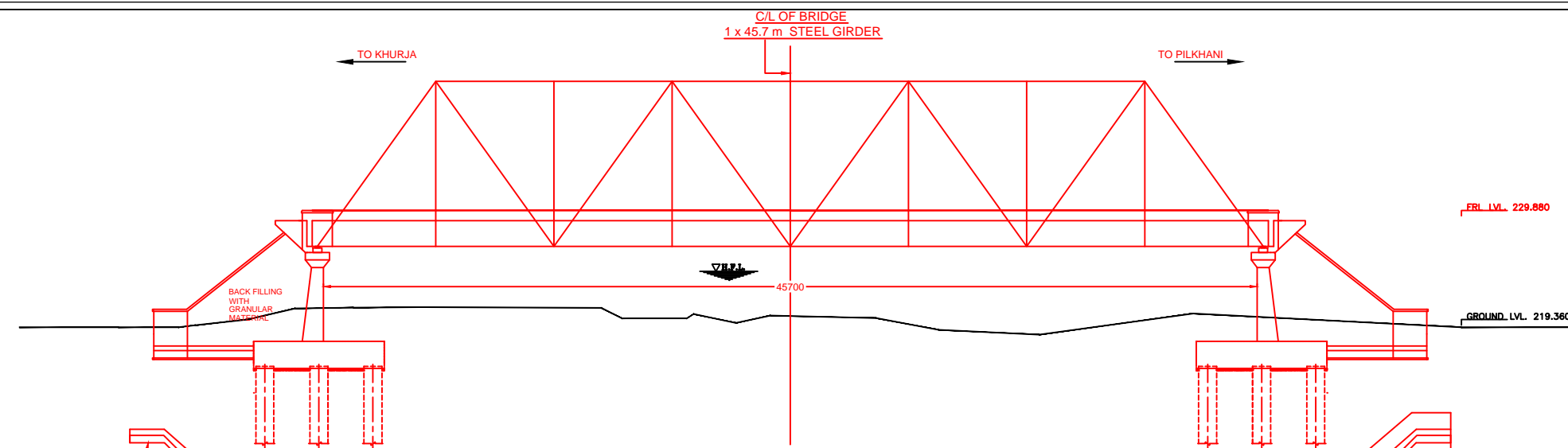
SECTION A-A

NOTES:-

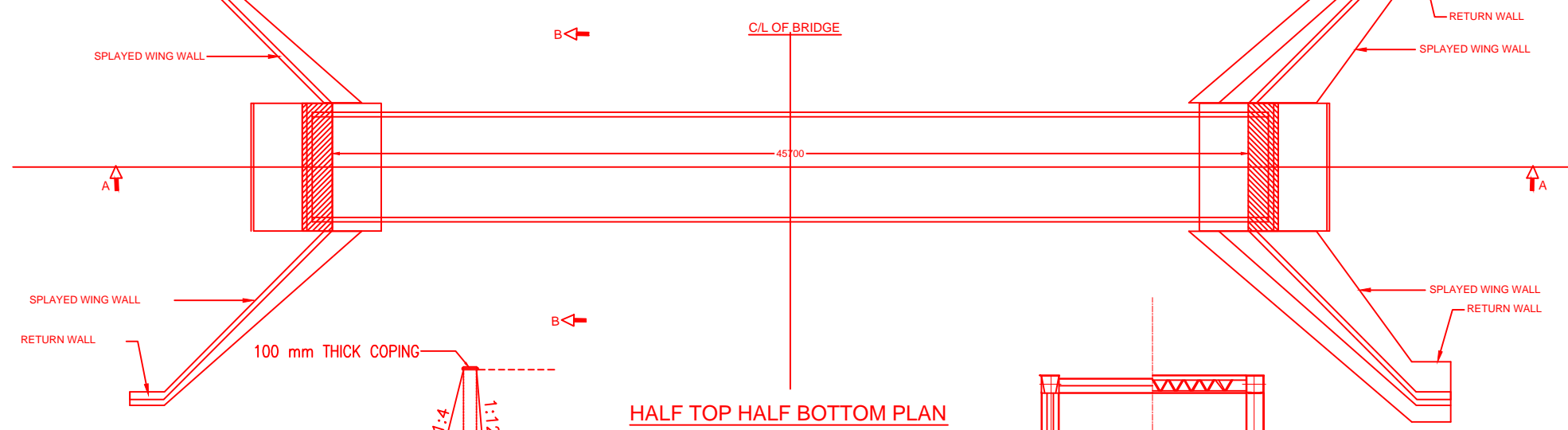
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
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14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 40 SPAN (1X18.3m) AT CH. 8976.570				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC40	R0

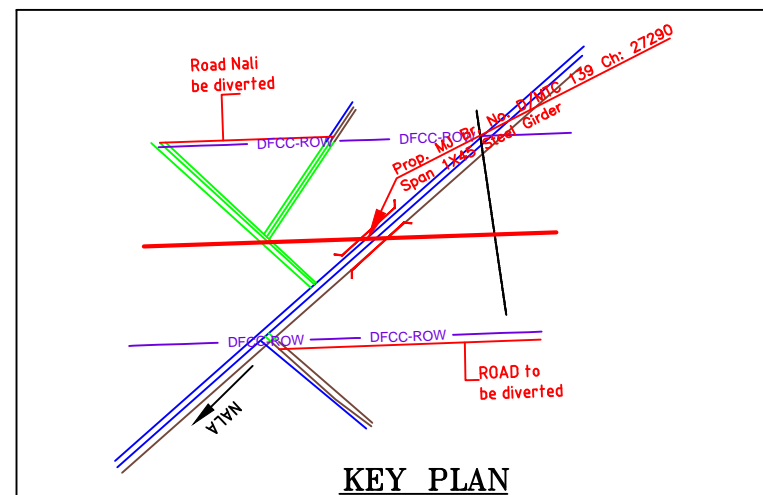


SECTIONAL ELEVATION AT A-A

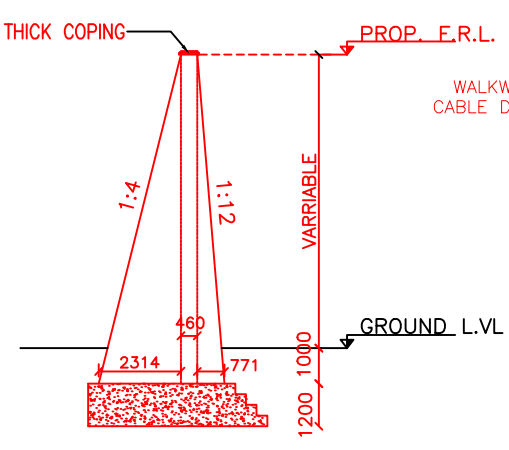


HALF TOP HALF BOTTOM PLAN

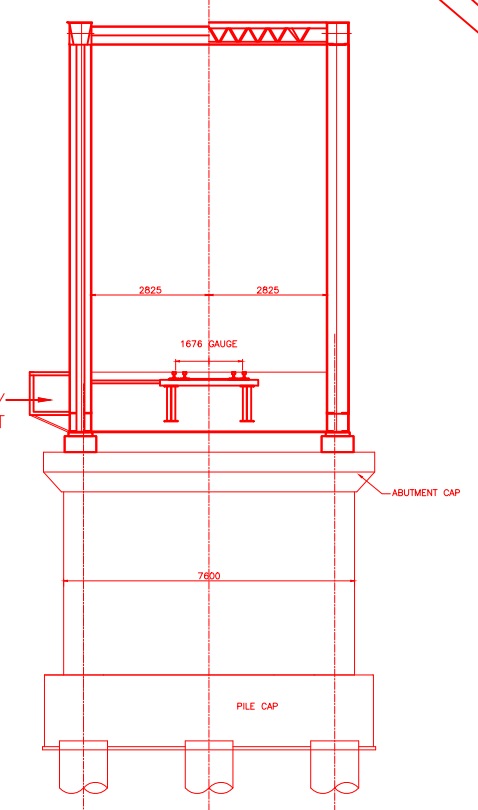
SECTION OF RETURN WALL



KEY PLAN



SECTION OF WING WALL



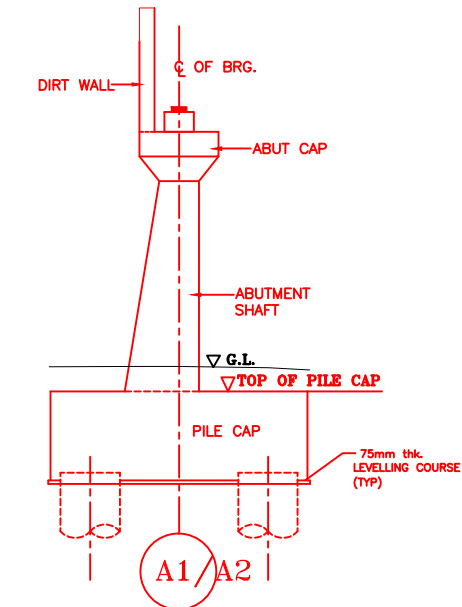
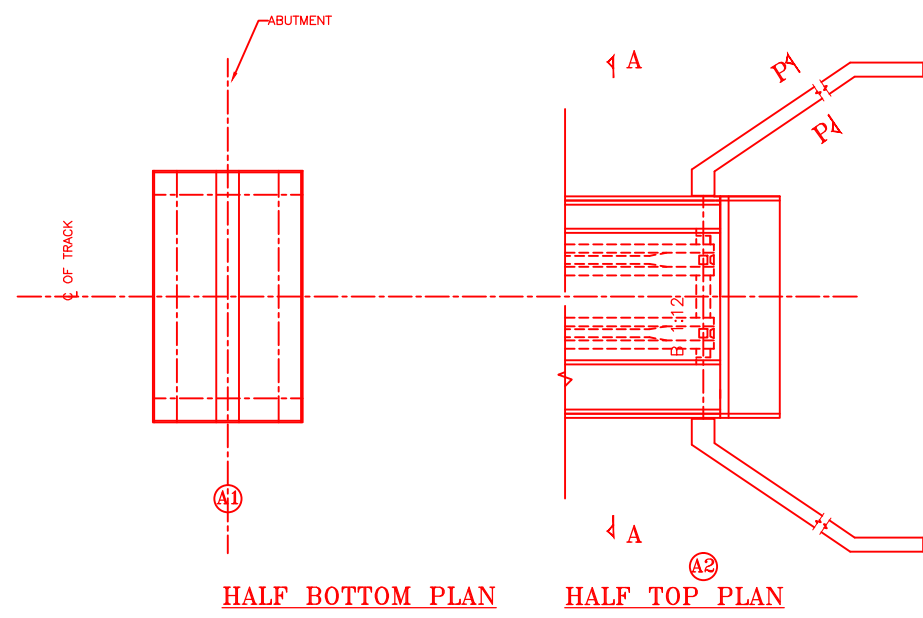
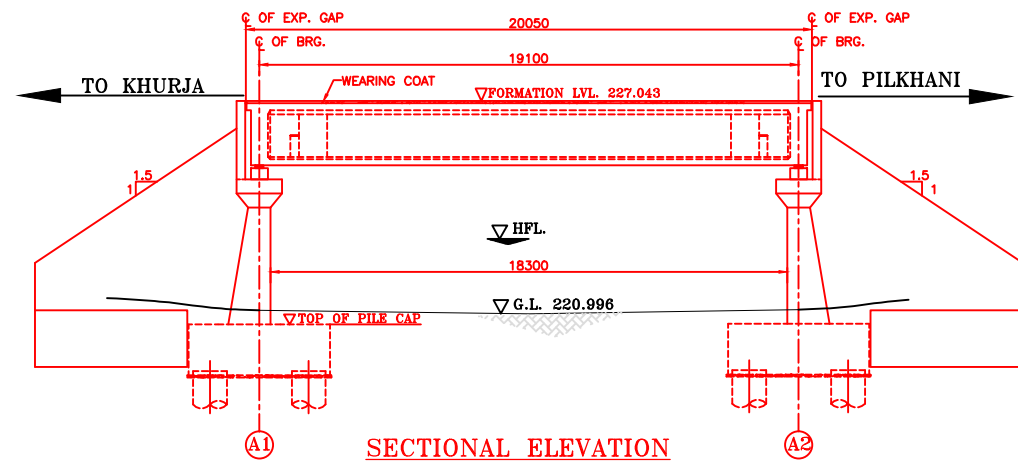
TYP. SEC. B-B

NOTES:-

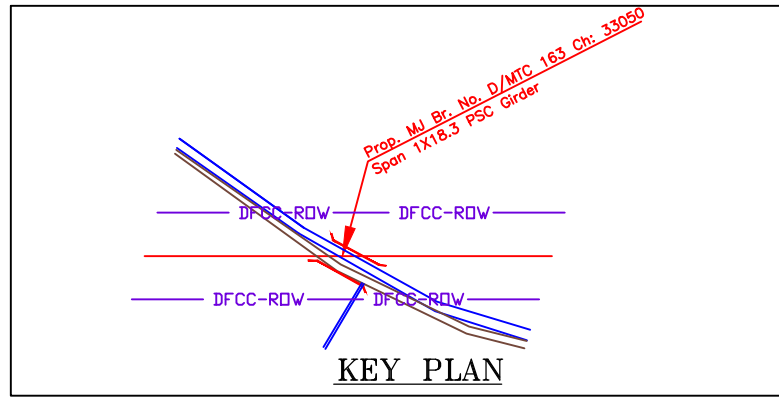
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

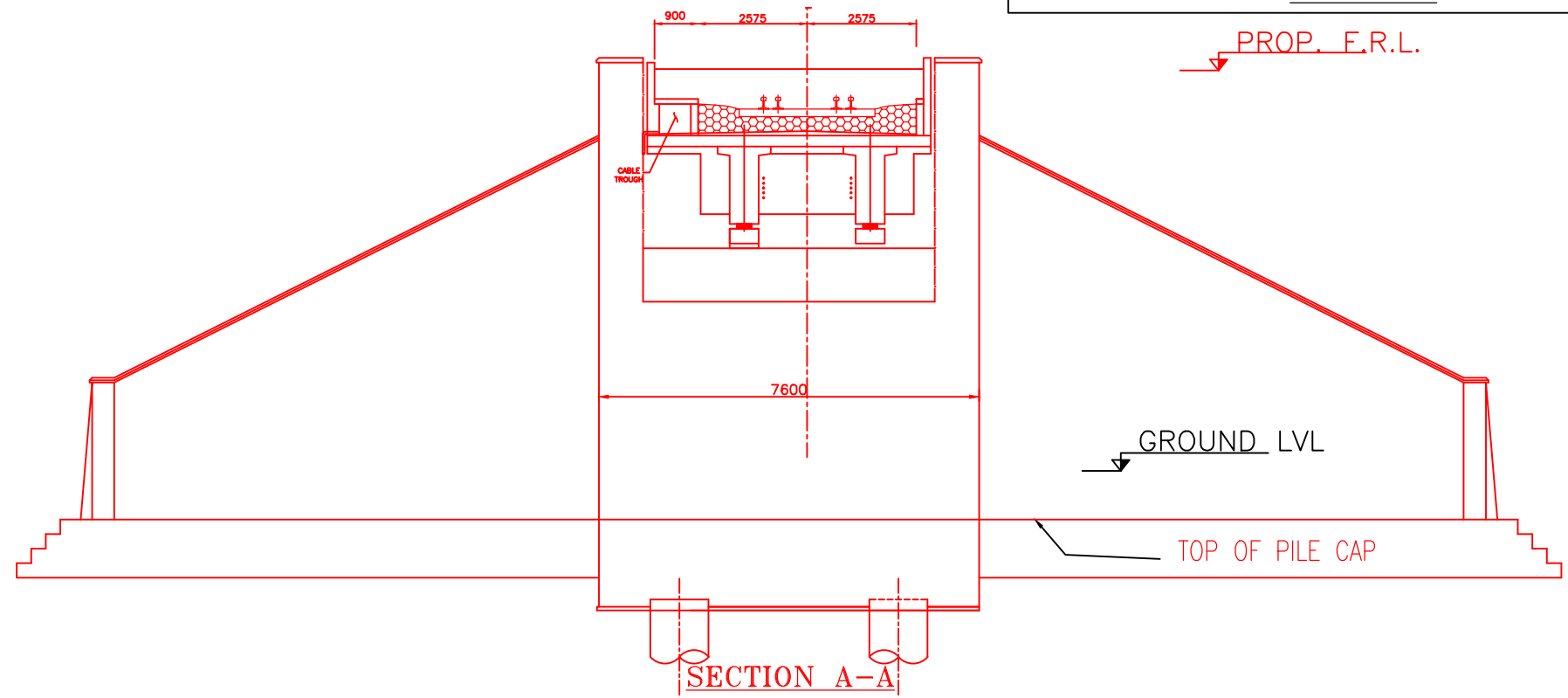
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MTC 139 SPAN (1X45.7m) AT CH. 27290				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC139	R0



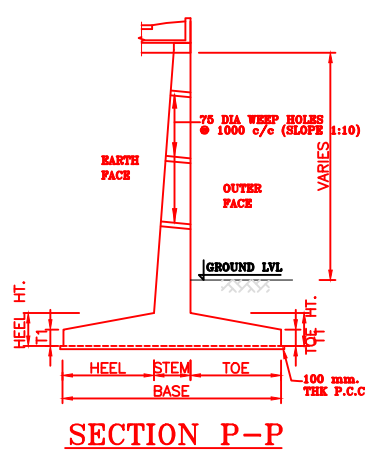
DETAIL OF ABUTMENT



PROP. E.R.L.



SECTION A-A



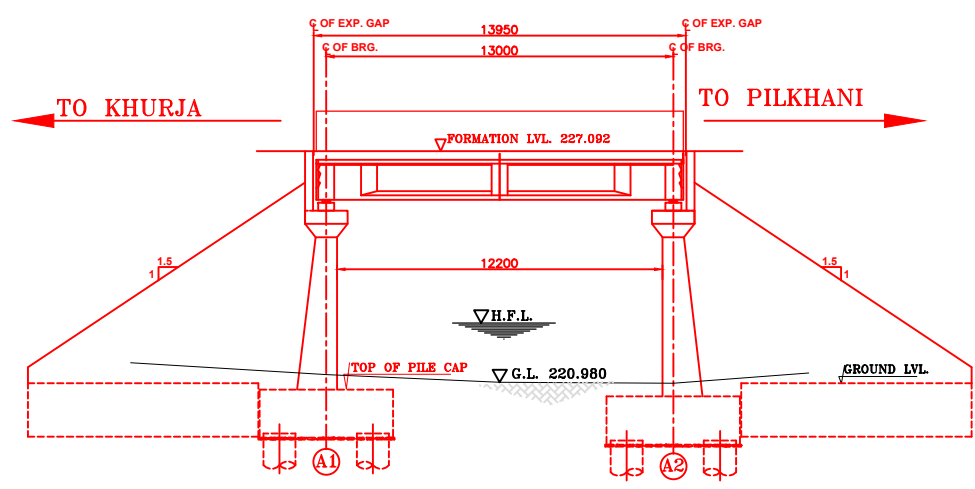
SECTION P-P

NOTES:-

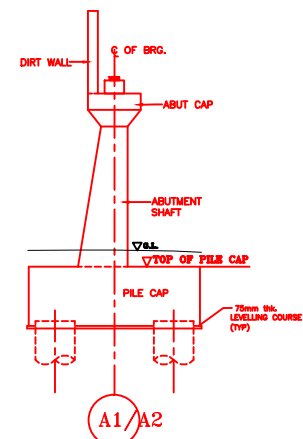
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

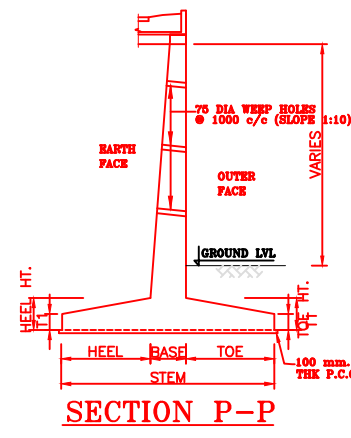
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 163 SPAN (1X18.3m) AT CH. 33050					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC163	R0



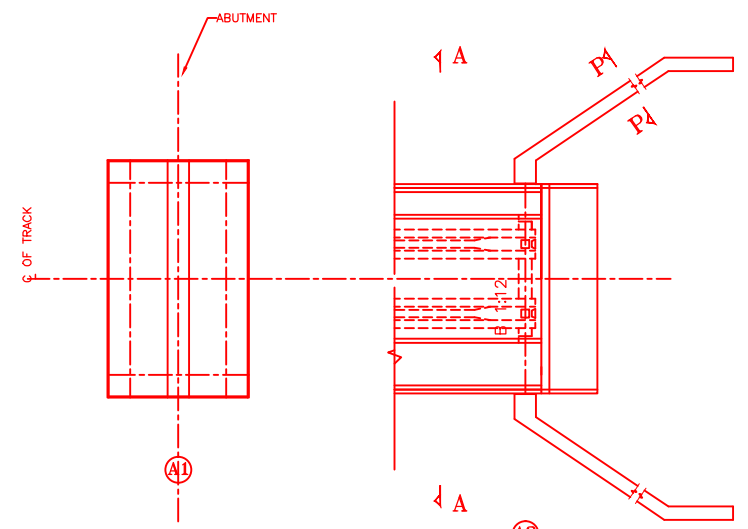
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

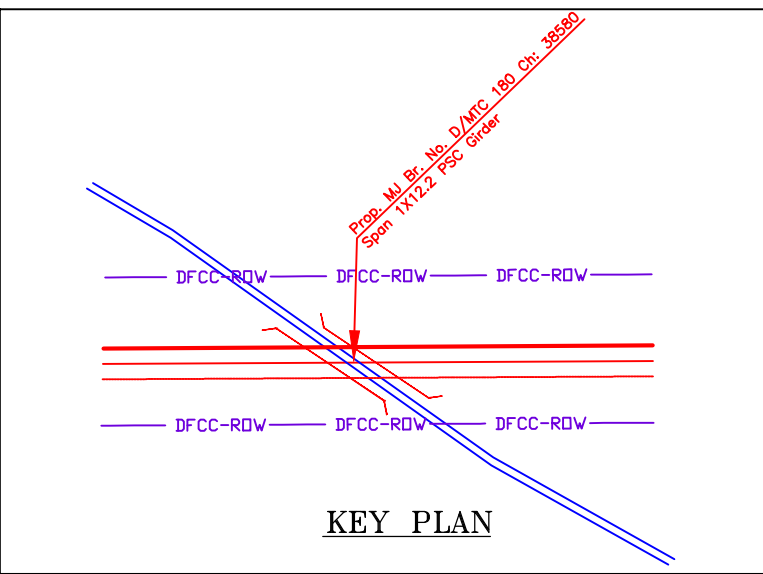


SECTION P-P

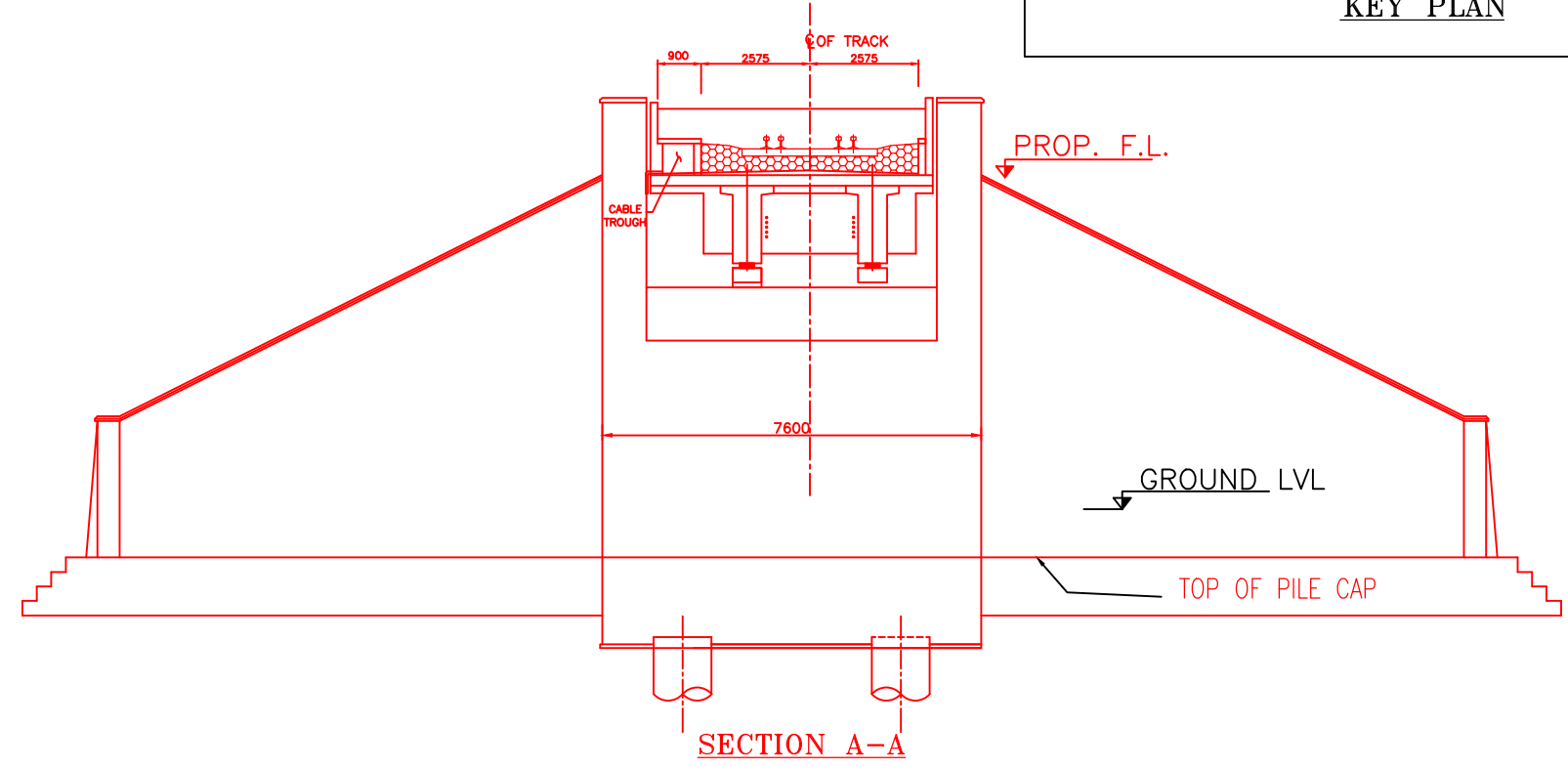


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



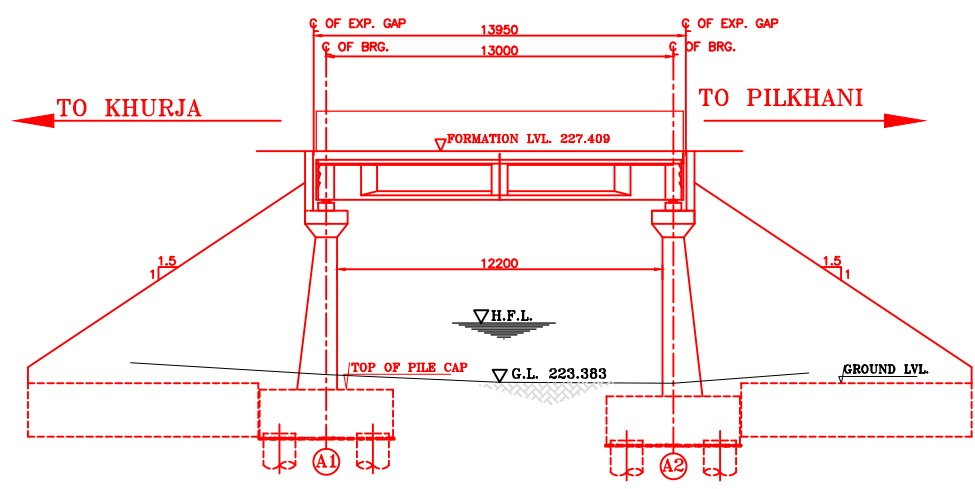
SECTION A-A

NOTES:-

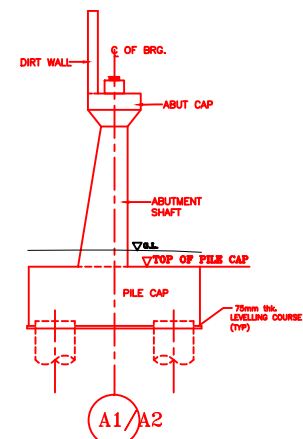
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
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15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

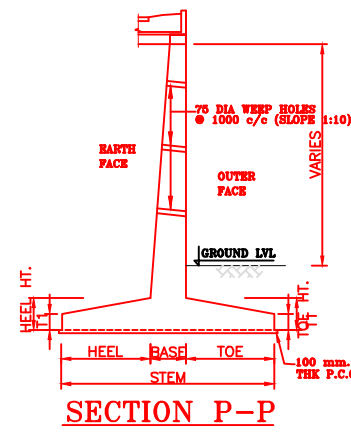
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR		PROJECT				
KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 180 SPAN (1X12.2m) AT CH. 38580				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC180	R0



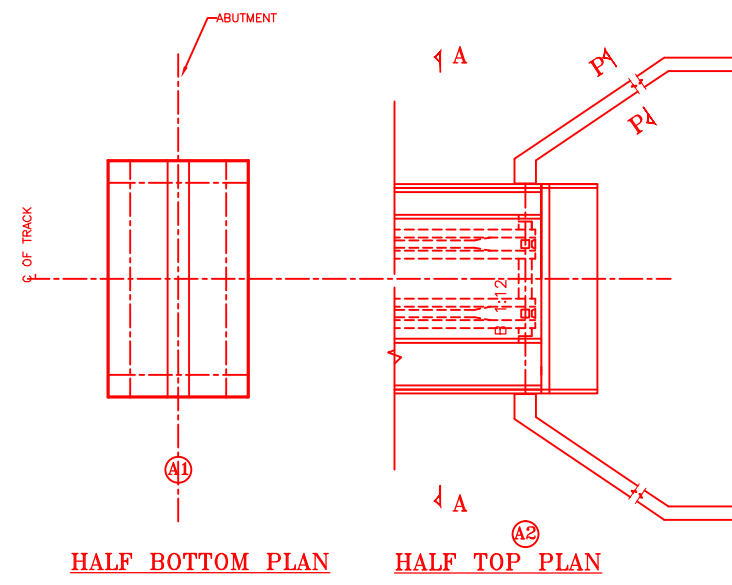
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

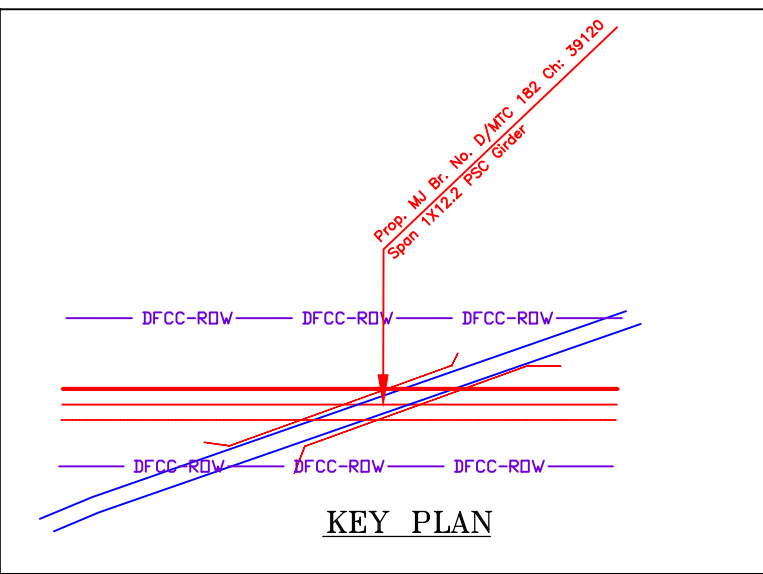


SECTION P-P

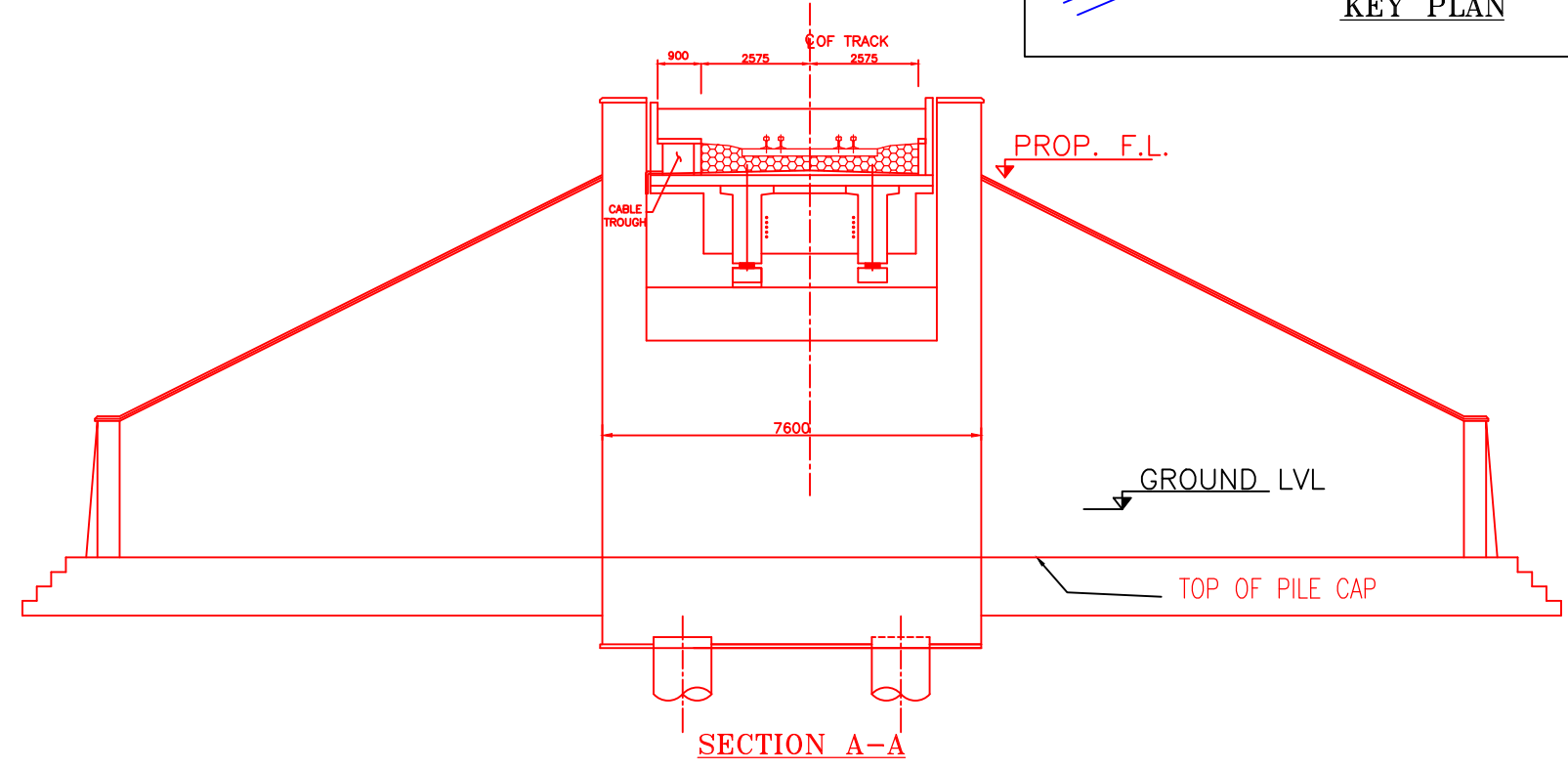


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



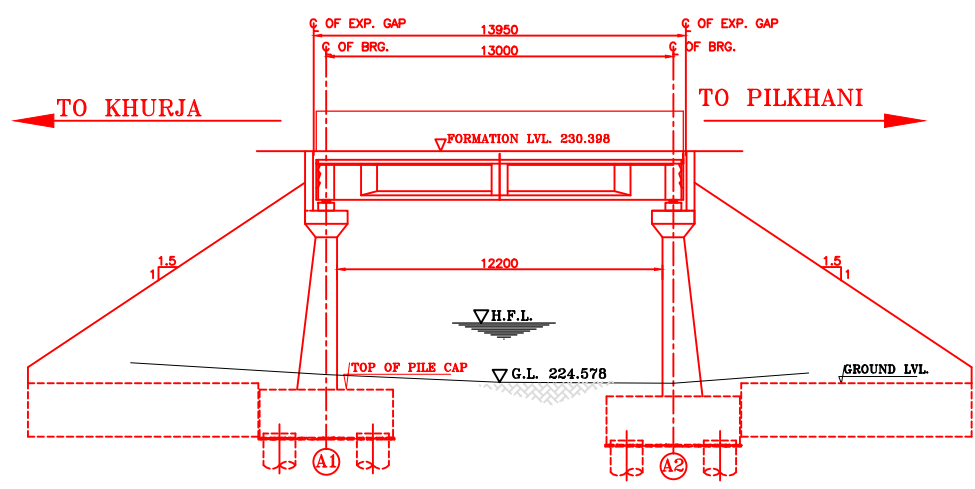
SECTION A-A

NOTES:-

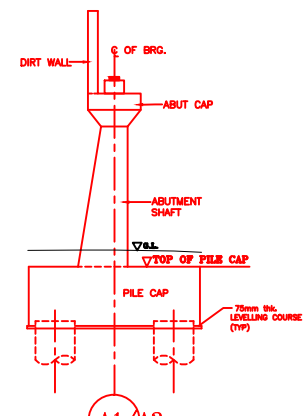
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
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8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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INDICATIVE DRAWING

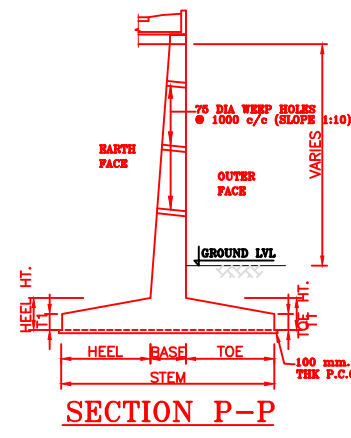
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR		PROJECT				
KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 182 SPAN (1X12.2m) AT CH. 39120				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC182	R0



SECTIONAL ELEVATION



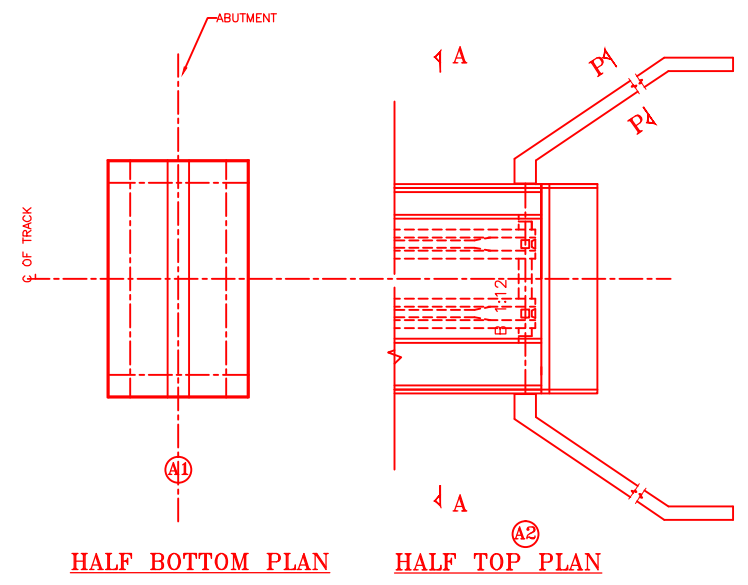
DETAIL OF ABUTMENT



SECTION P-P

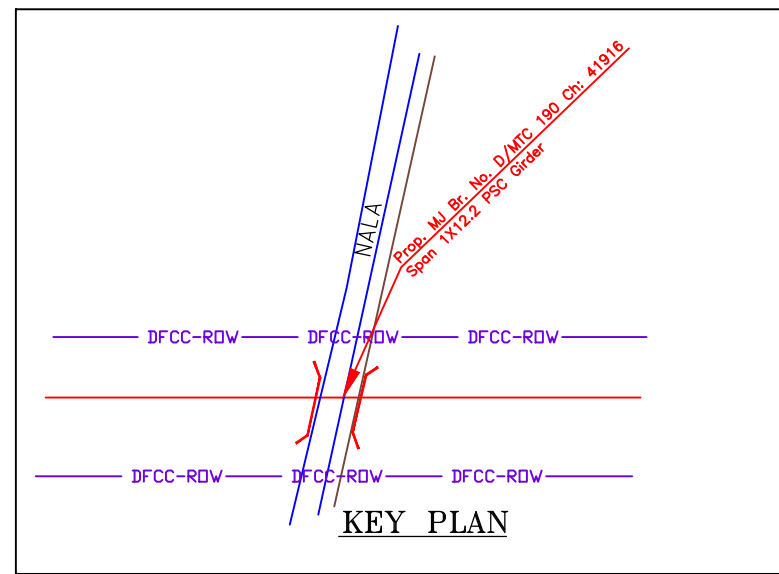
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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14. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

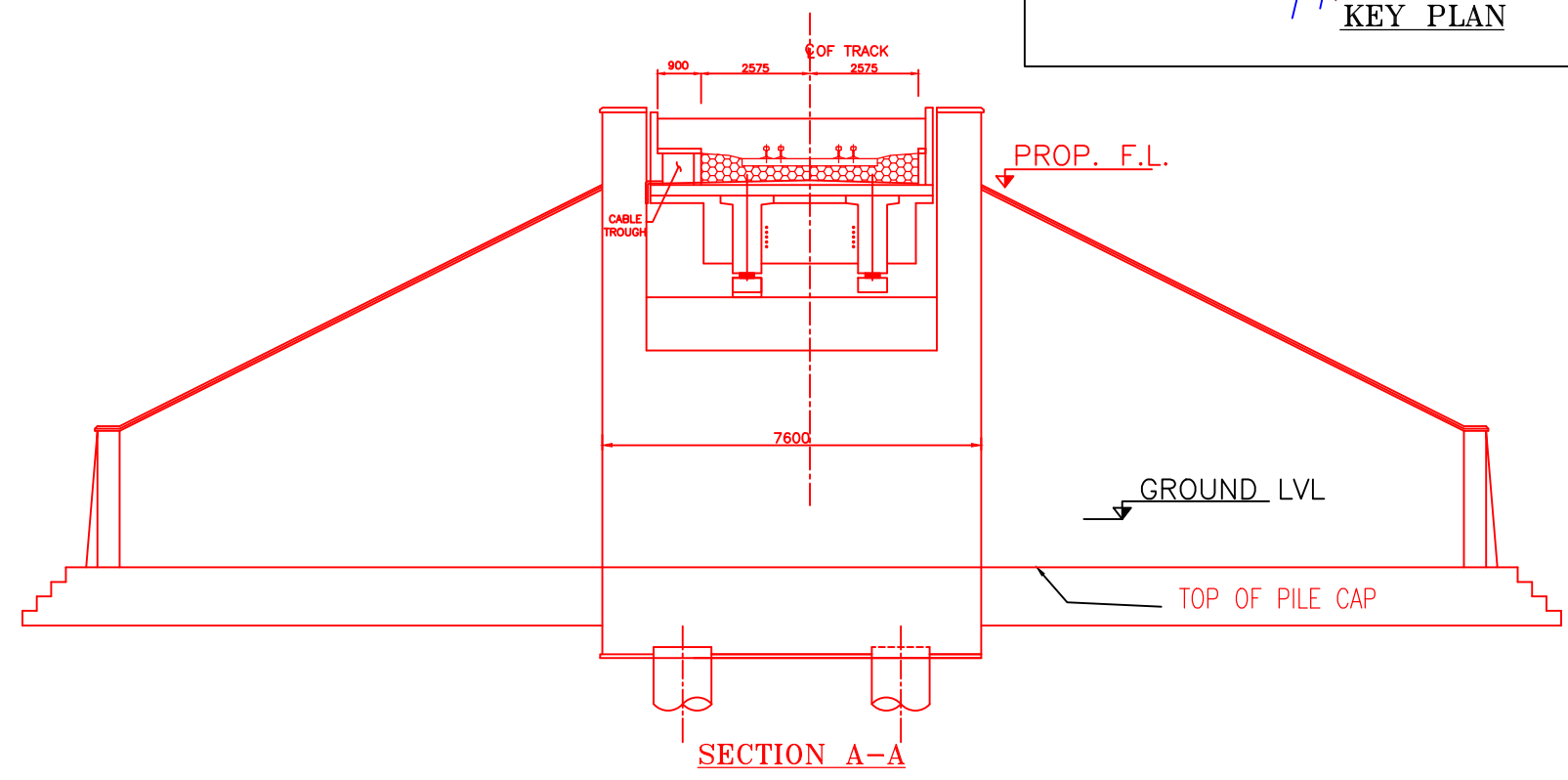


HALF BOTTOM PLAN

HALF TOP PLAN





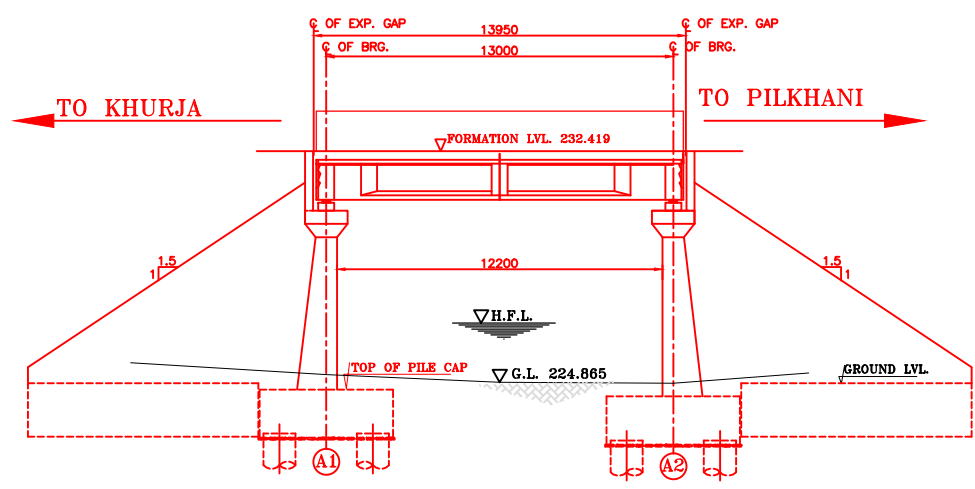
KEY PLAN



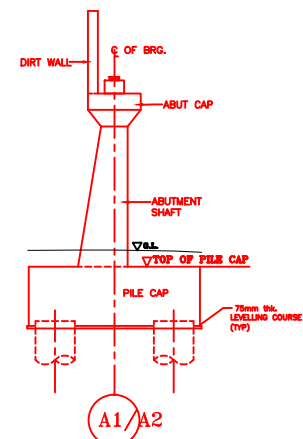
SECTION A-A

INDICATIVE DRAWING

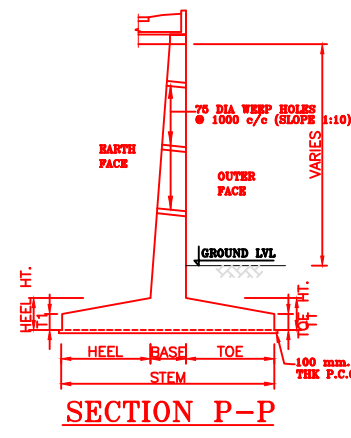
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 190 SPAN (1X12.2m) AT CH. 41916					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC190	R0



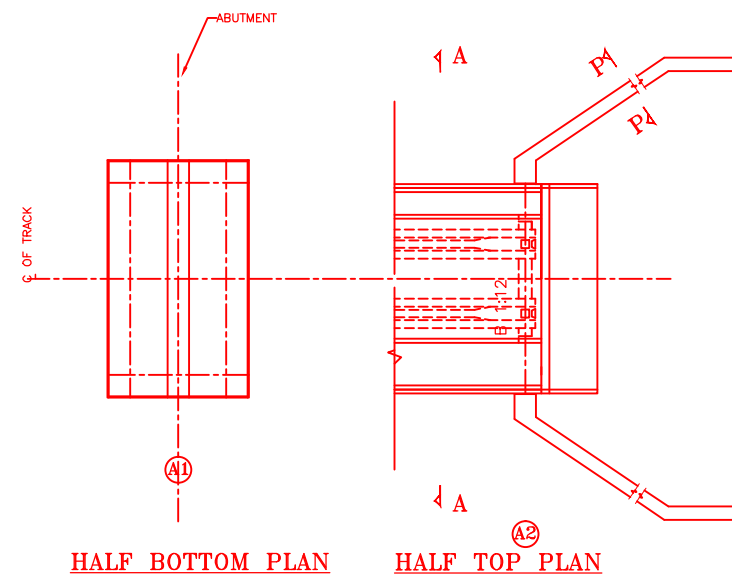
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

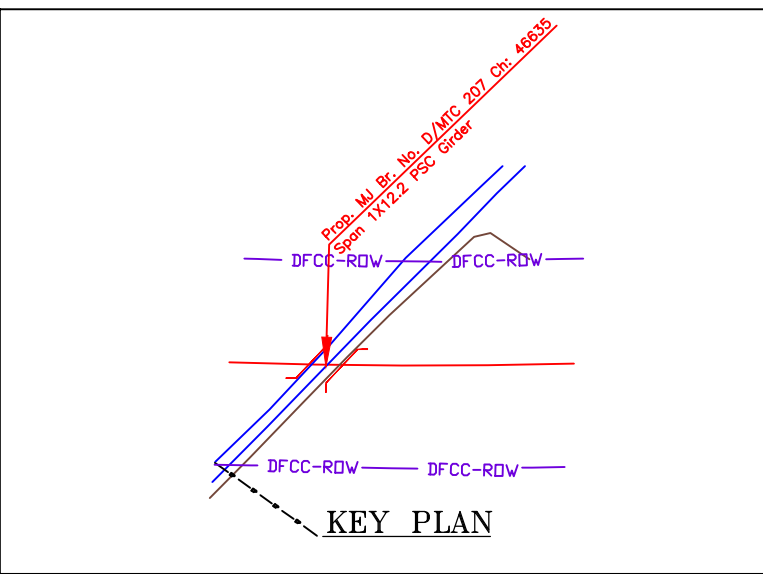


SECTION P-P

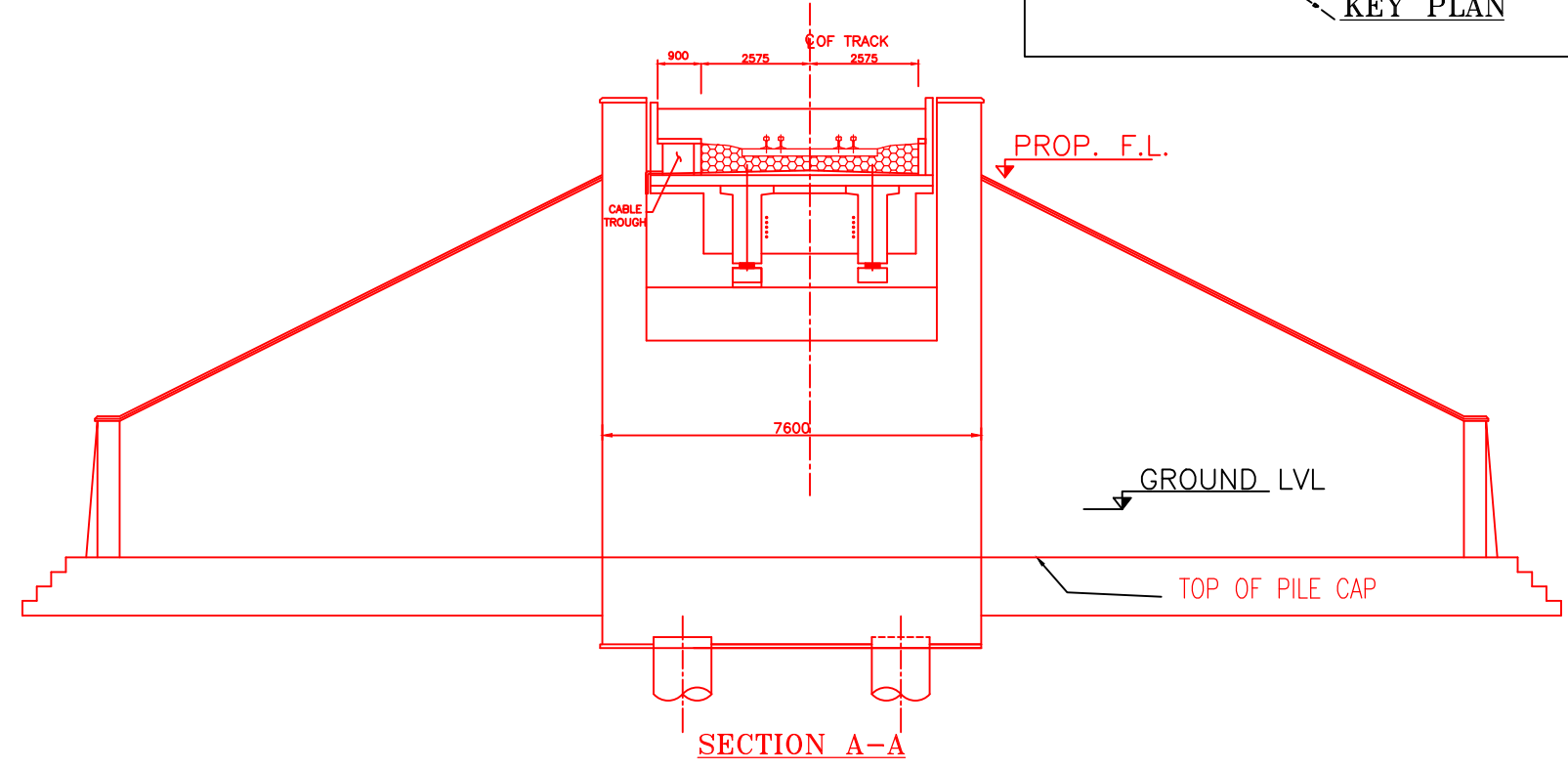


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



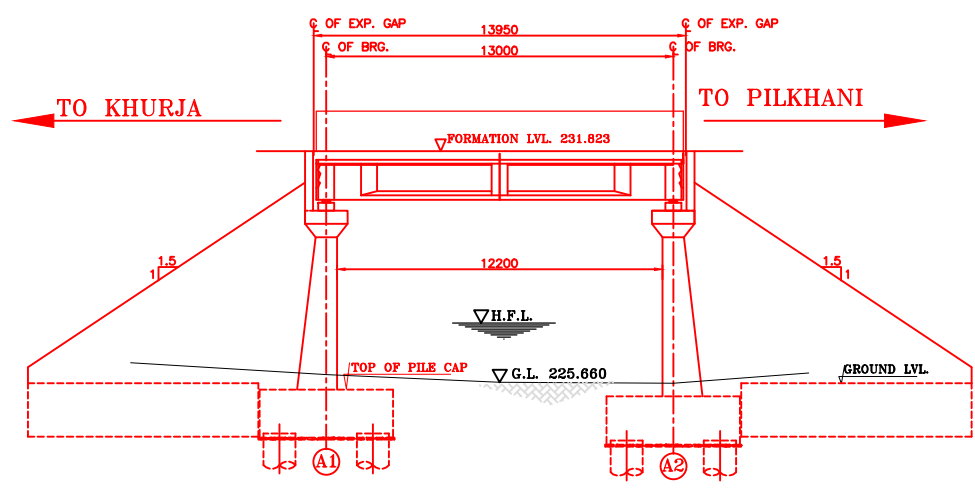
SECTION A-A

NOTES:-

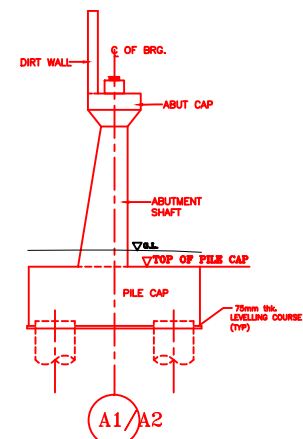
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
12. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
13. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
14. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

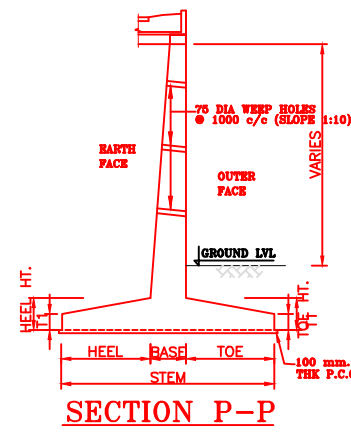
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 207 SPAN (1X12.2m) AT CH. 46635					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC207	R0



SECTIONAL ELEVATION



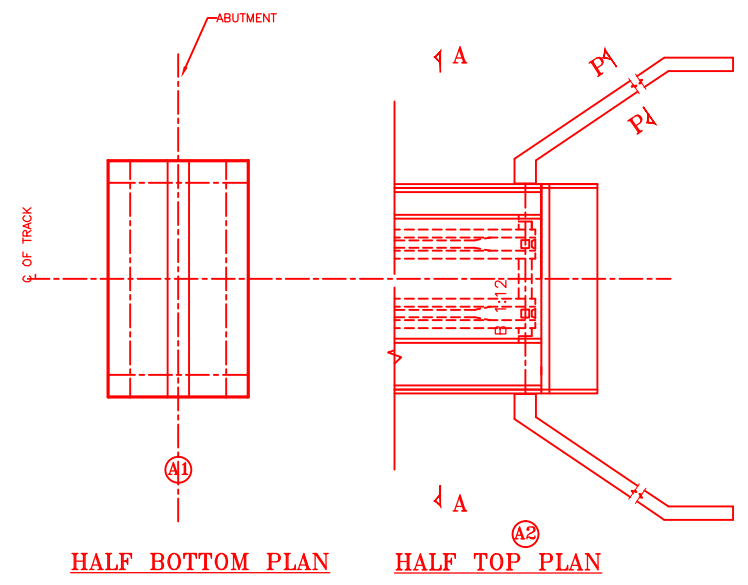
DETAIL OF ABUTMENT



SECTION P-P

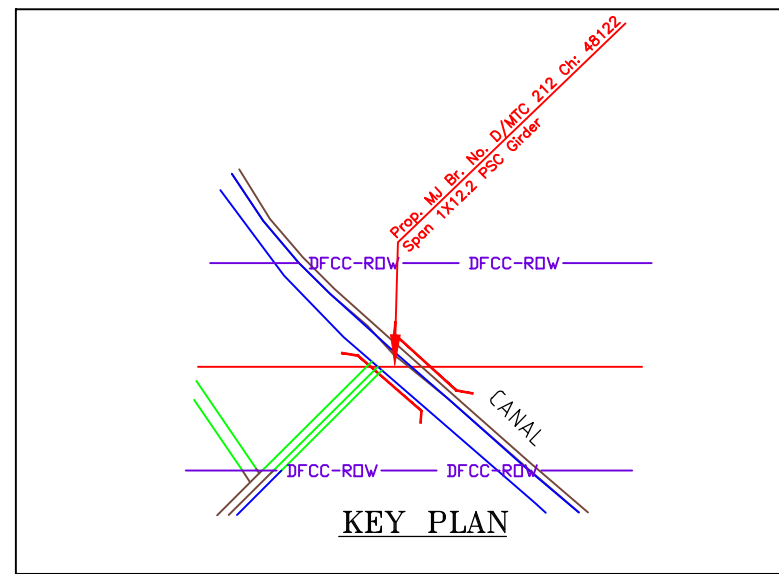
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
12. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
13. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
14. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
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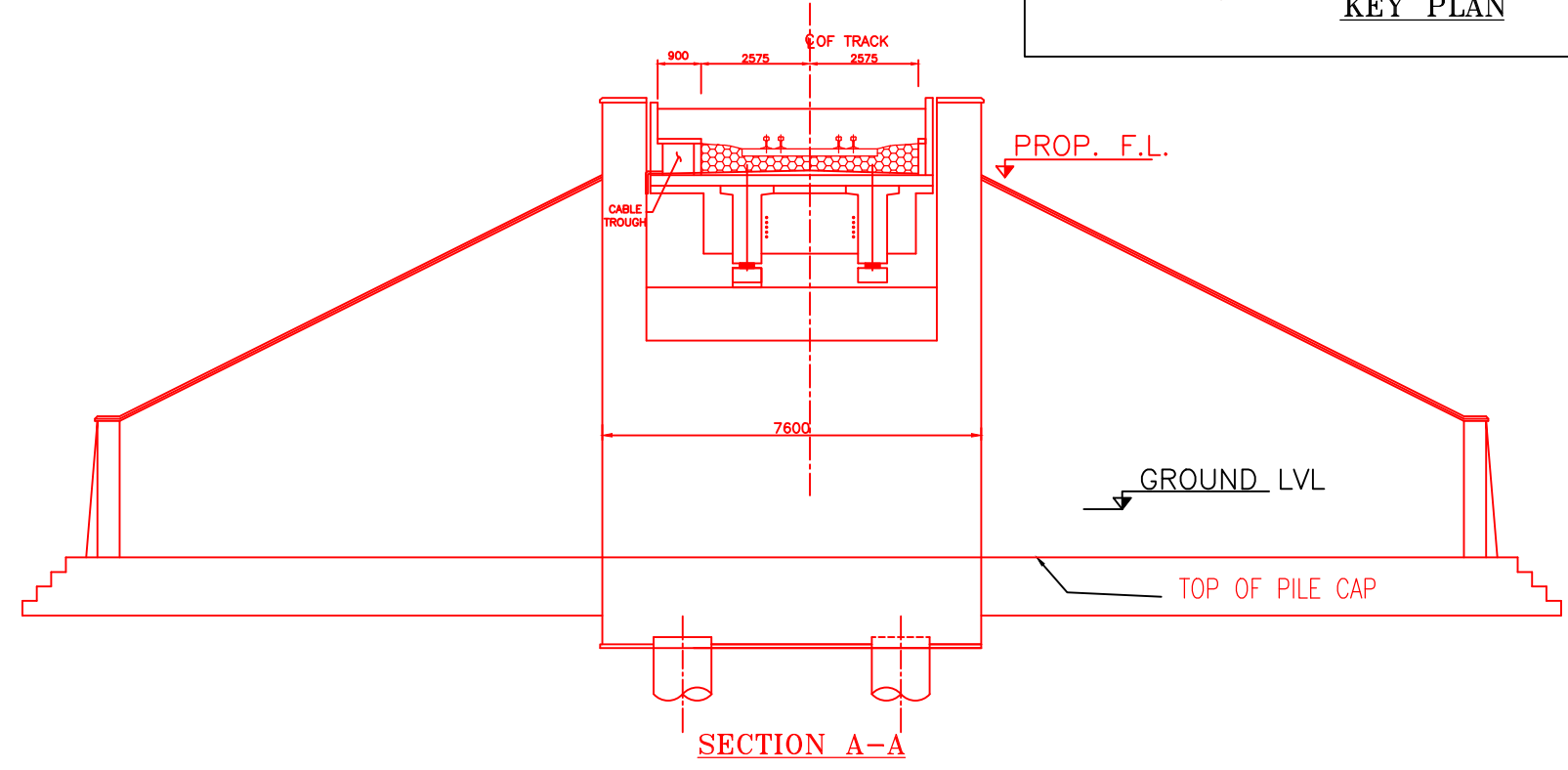


HALF BOTTOM PLAN

HALF TOP PLAN




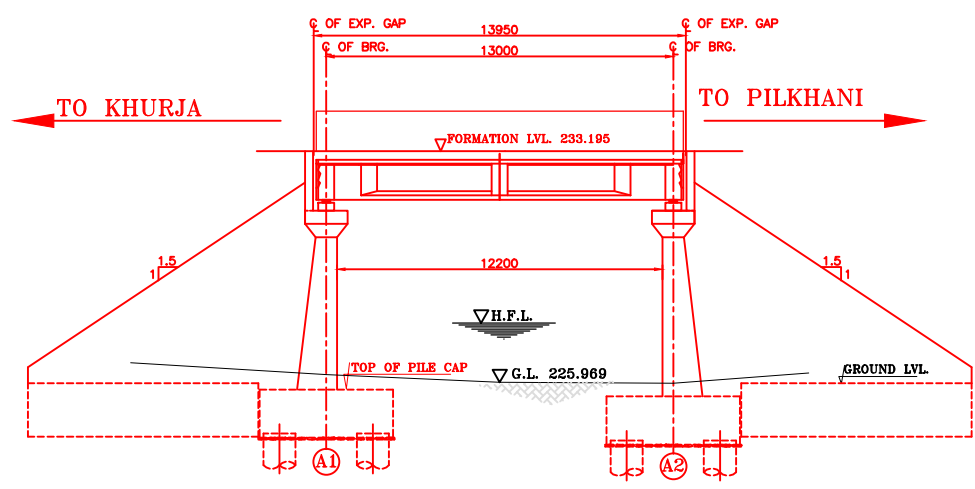
KEY PLAN



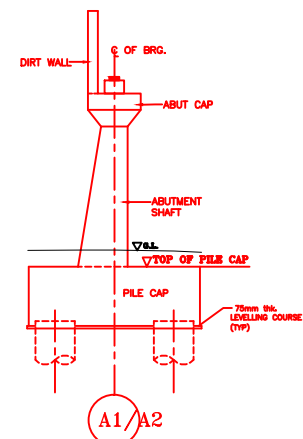
SECTION A-A

INDICATIVE DRAWING

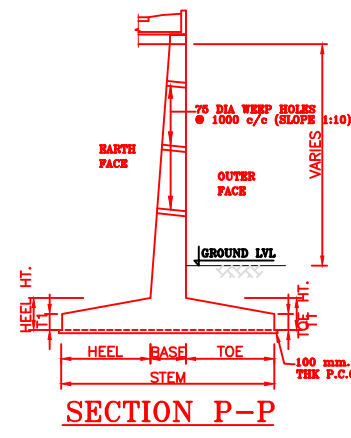
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 212 SPAN (1X12.2m) AT CH. 48122					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC212	R0



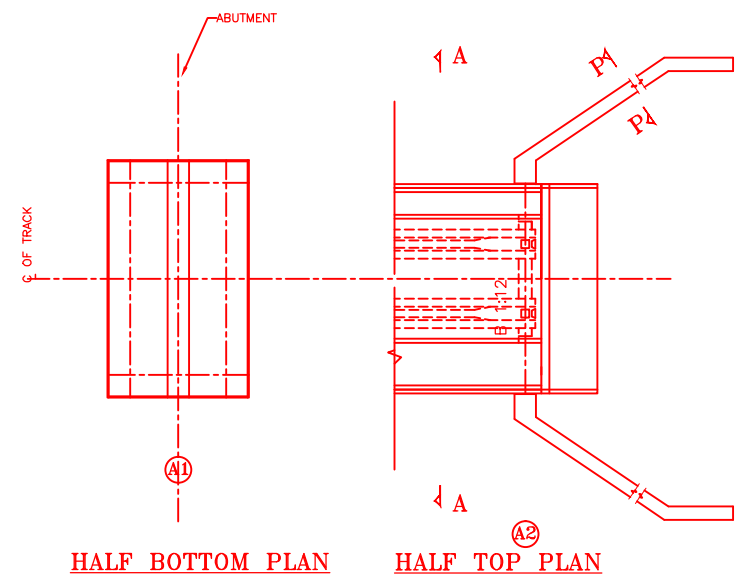
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

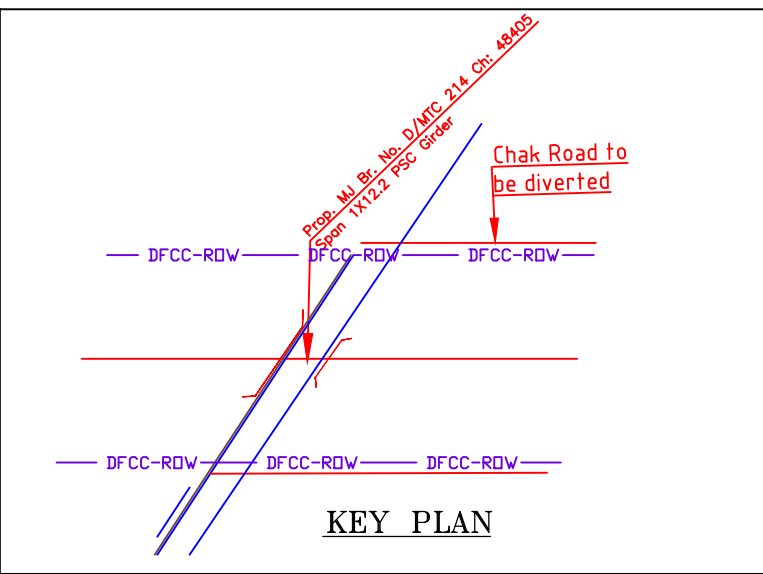


SECTION P-P

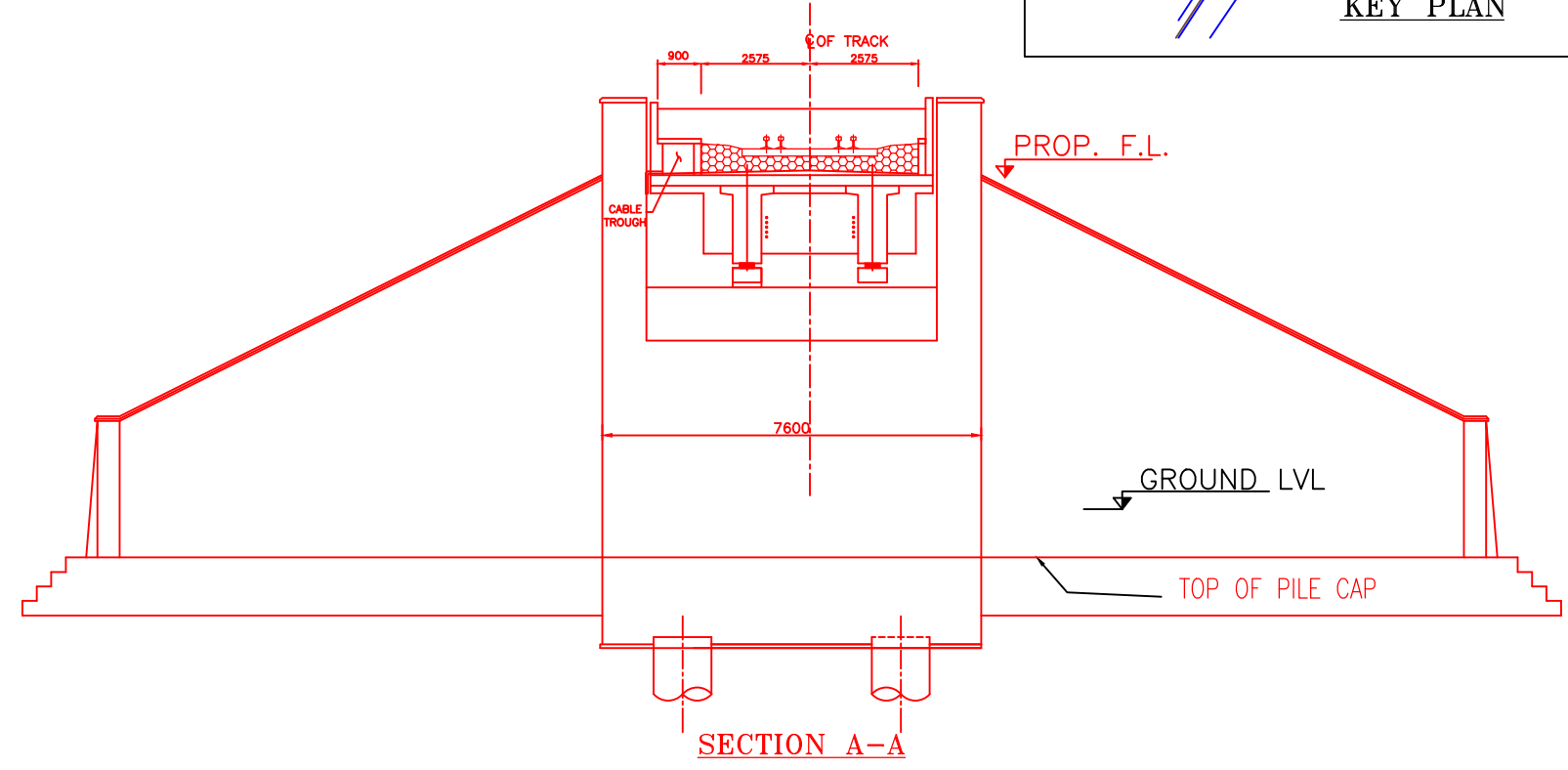


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN





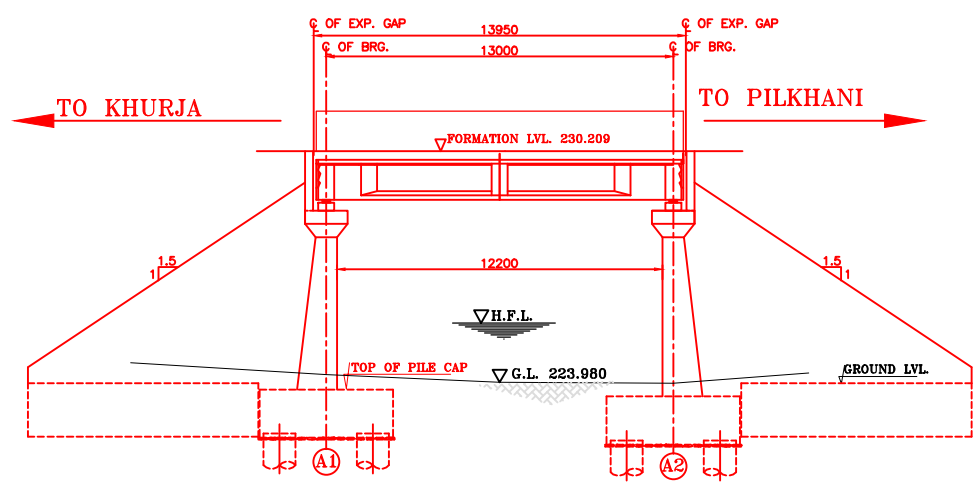
SECTION A-A

NOTES:-

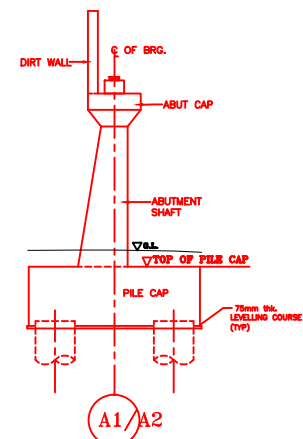
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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INDICATIVE DRAWING

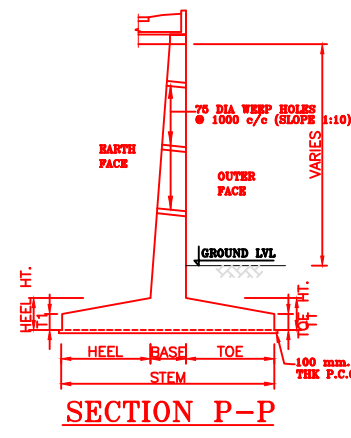
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 214 SPAN (1X12.2m) AT CH. 48405					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC214	R0



SECTIONAL ELEVATION



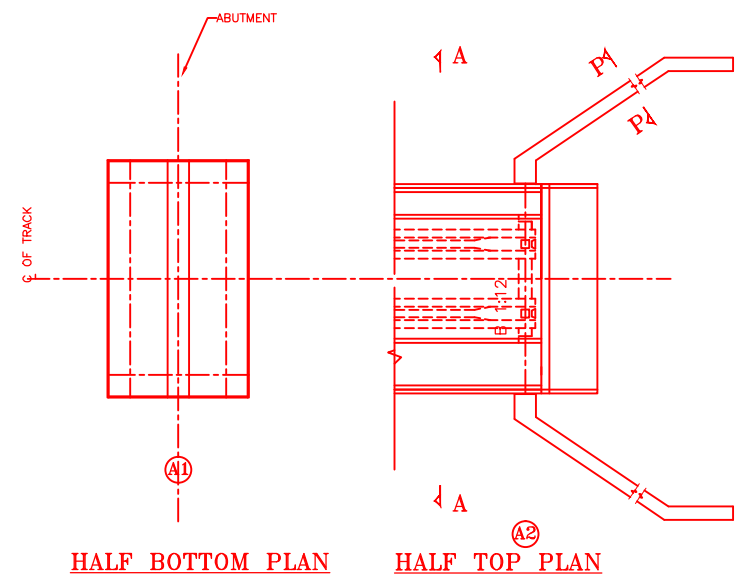
DETAIL OF ABUTMENT



SECTION P-P

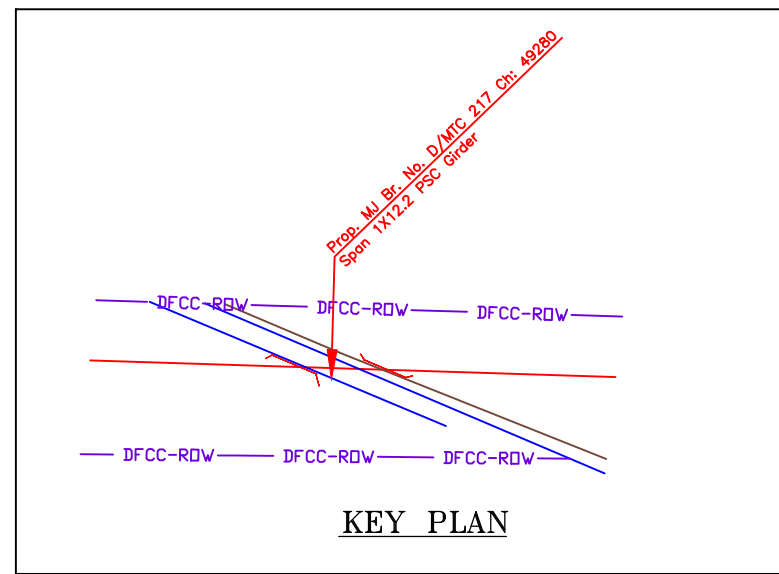
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
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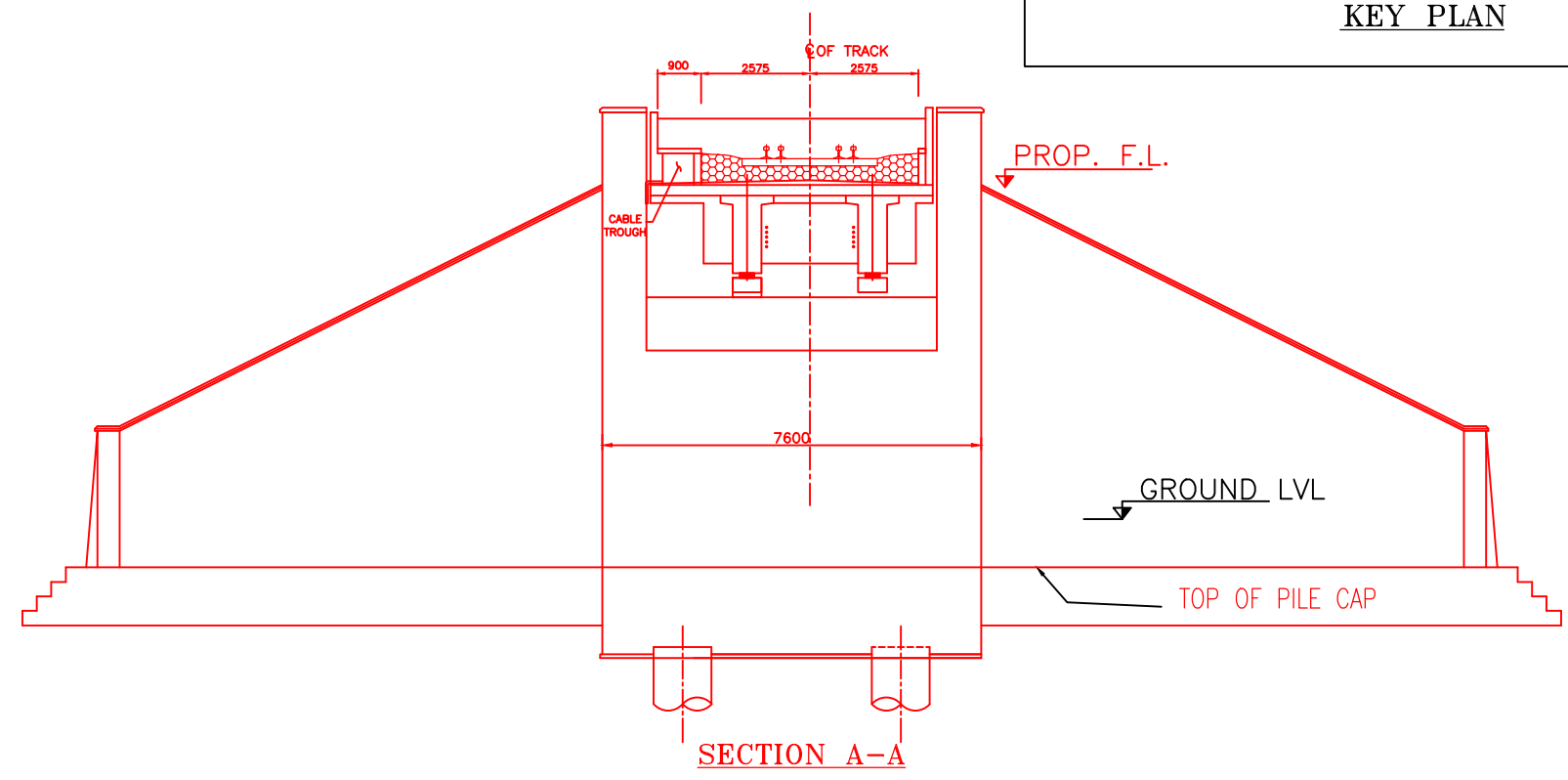


HALF BOTTOM PLAN

HALF TOP PLAN




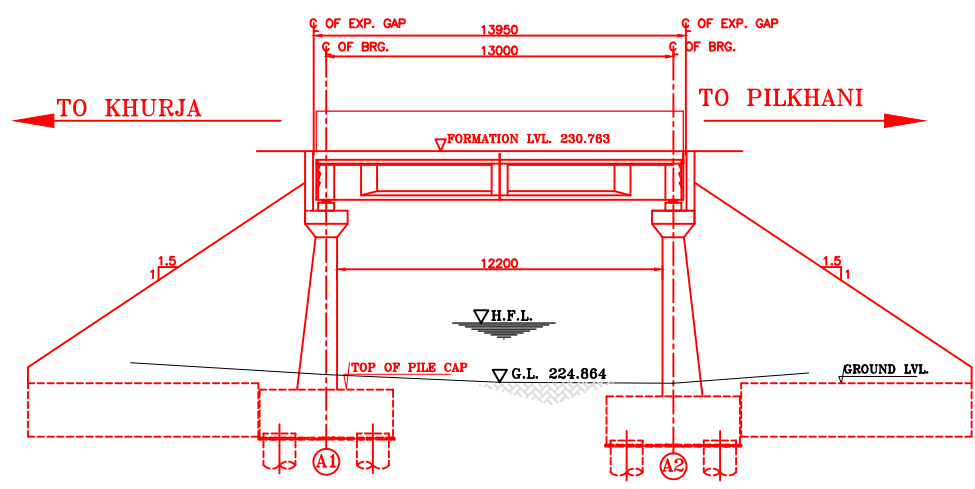
KEY PLAN



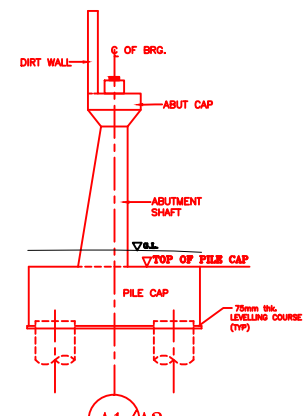
SECTION A-A

INDICATIVE DRAWING

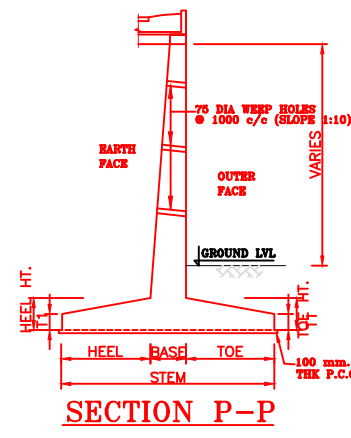
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.						
GENERAL CONSULTANT	AECOM Asia Co. Ltd.					
	AECOM 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 217 SPAN (1X12.2m) AT CH. 49280					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC217	R0



SECTIONAL ELEVATION



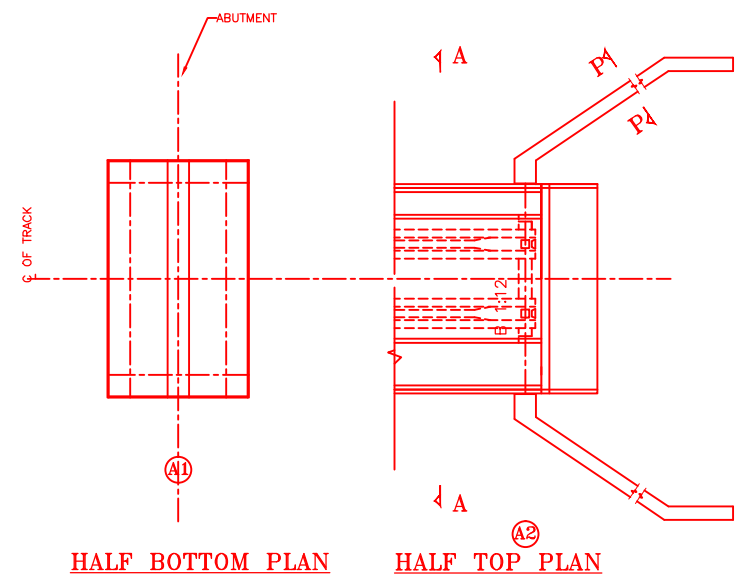
DETAIL OF ABUTMENT



SECTION P-P

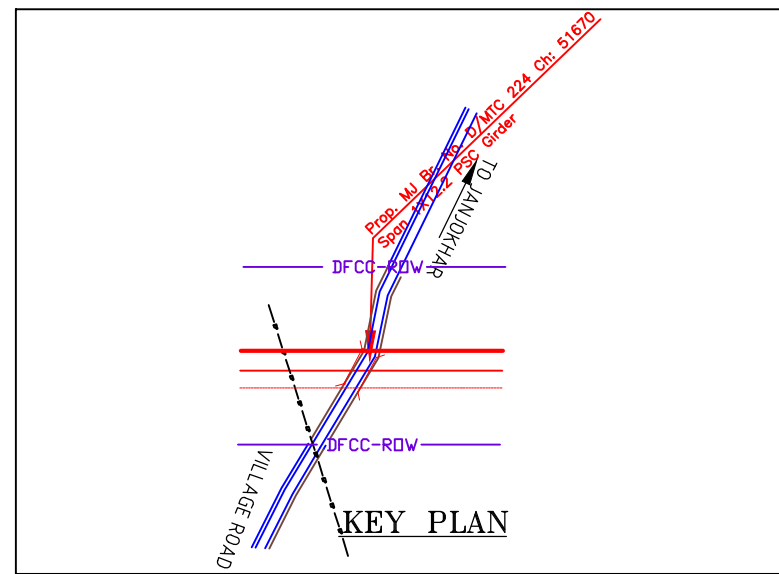
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
12. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
13. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
14. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

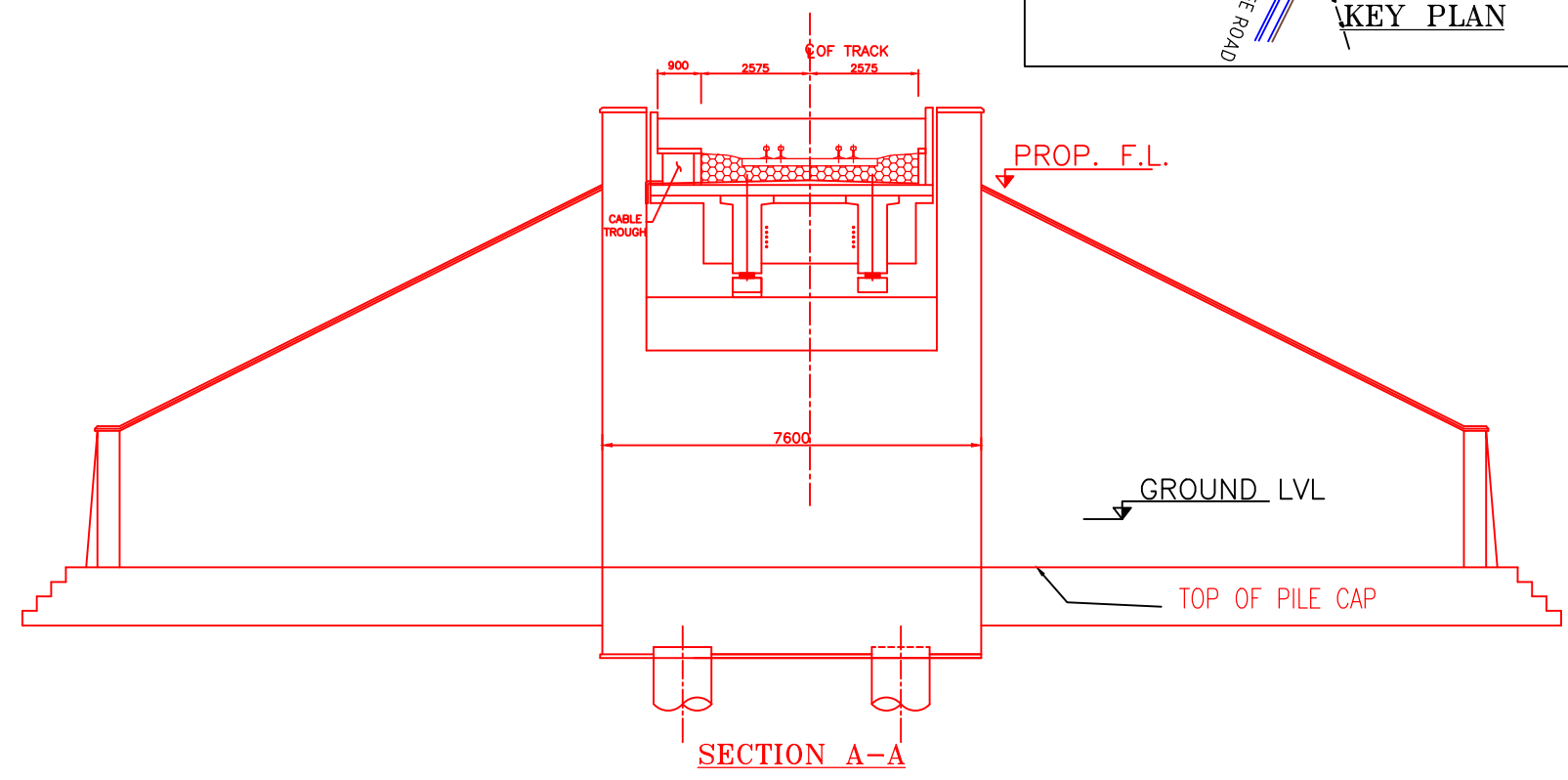


HALF BOTTOM PLAN

HALF TOP PLAN



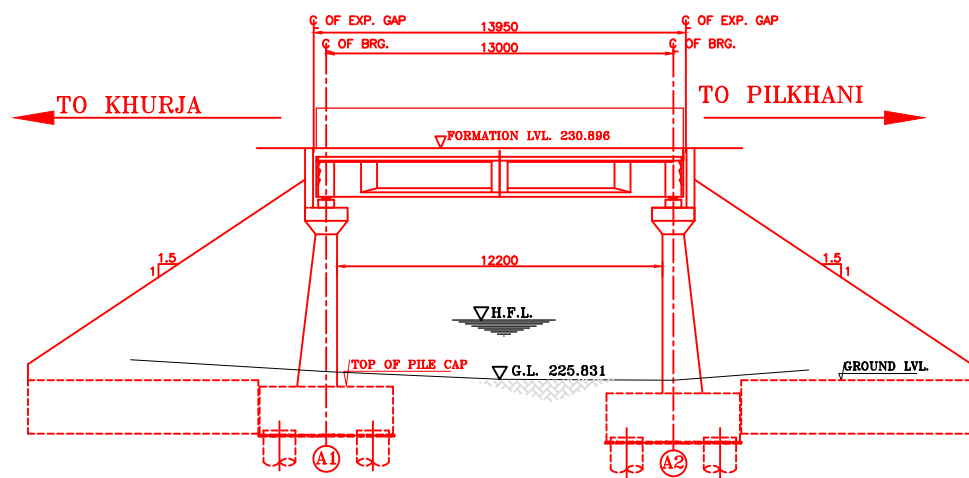
KEY PLAN



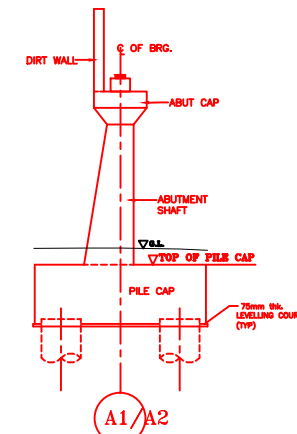
SECTION A-A

INDICATIVE DRAWING

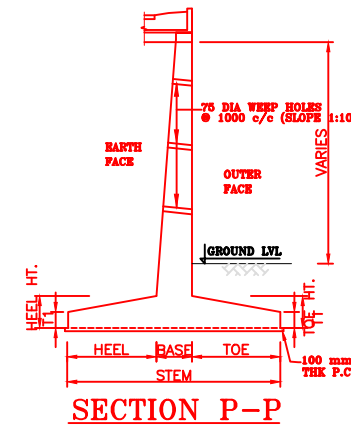
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR		PROJECT				
KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 224 SPAN (1X12.2m) AT CH. 51670				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC224	R0



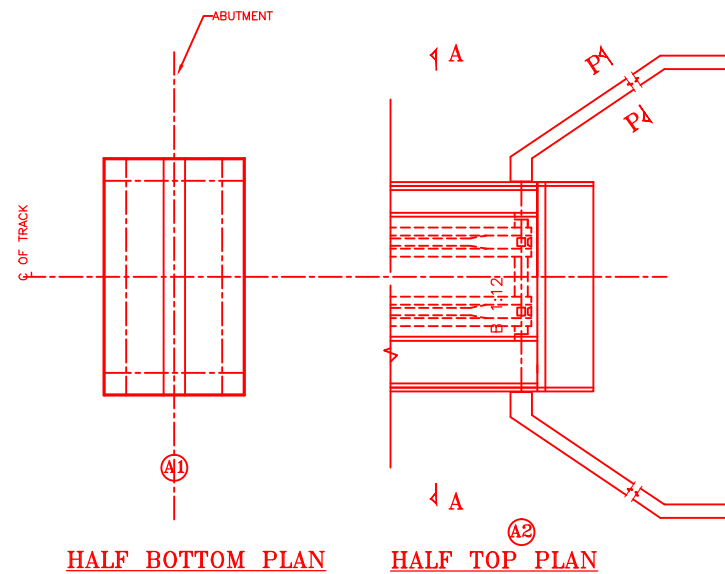
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

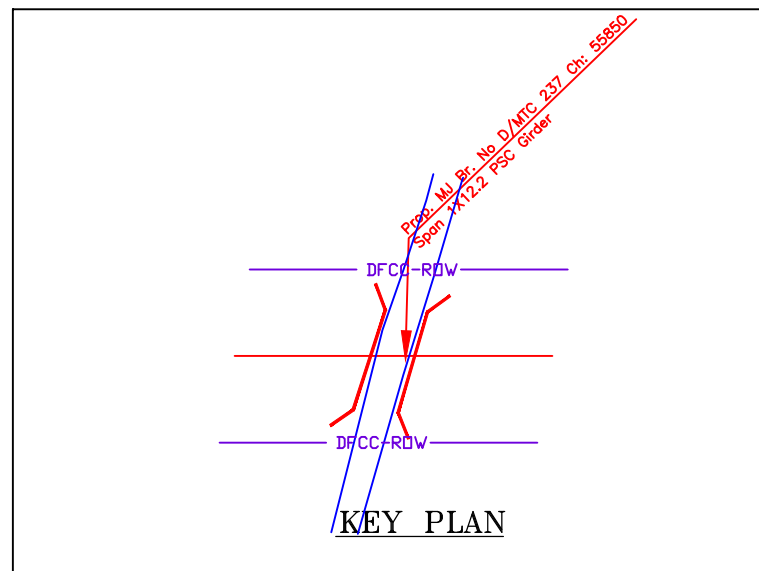


SECTION P-P

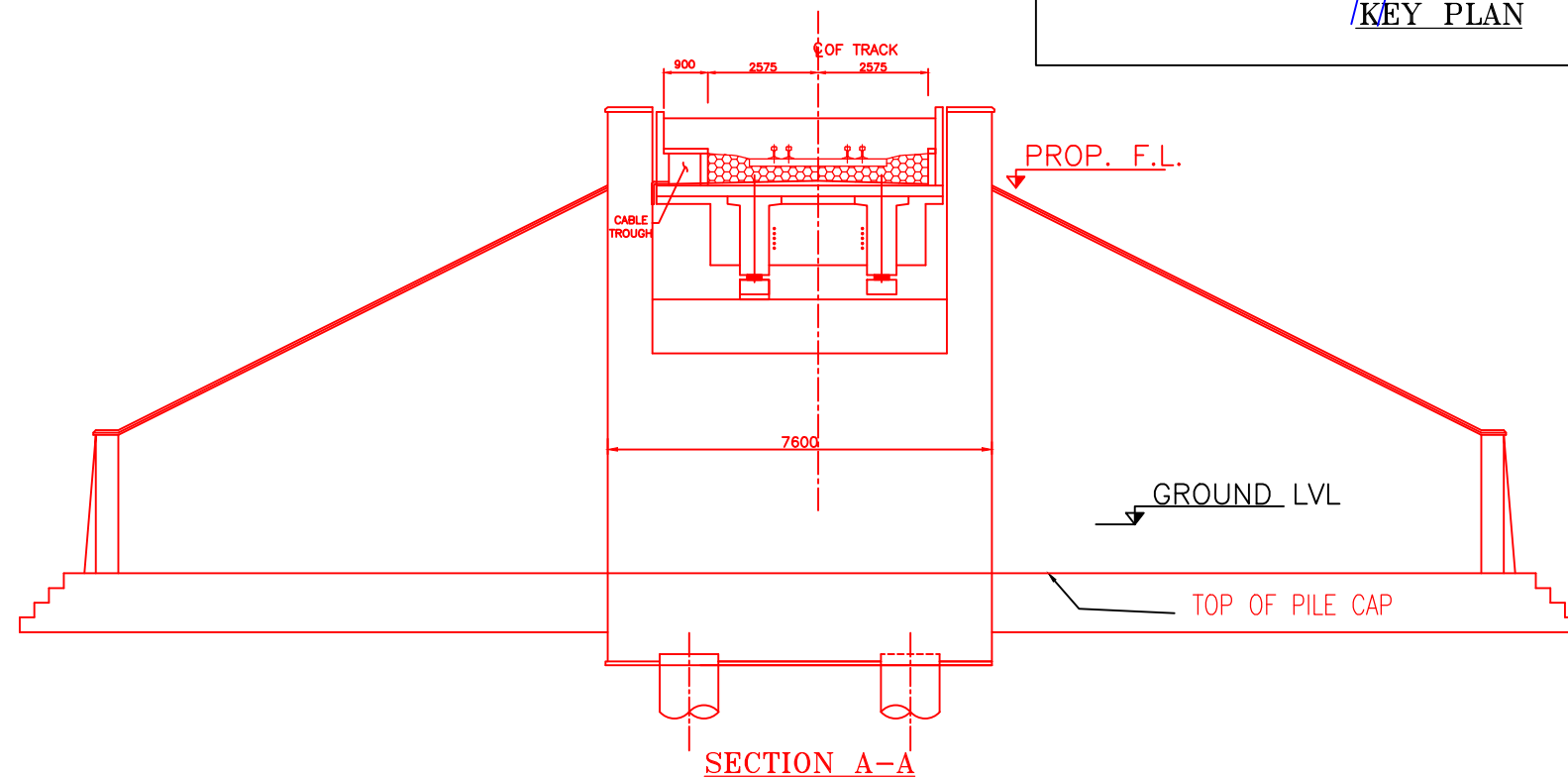


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN




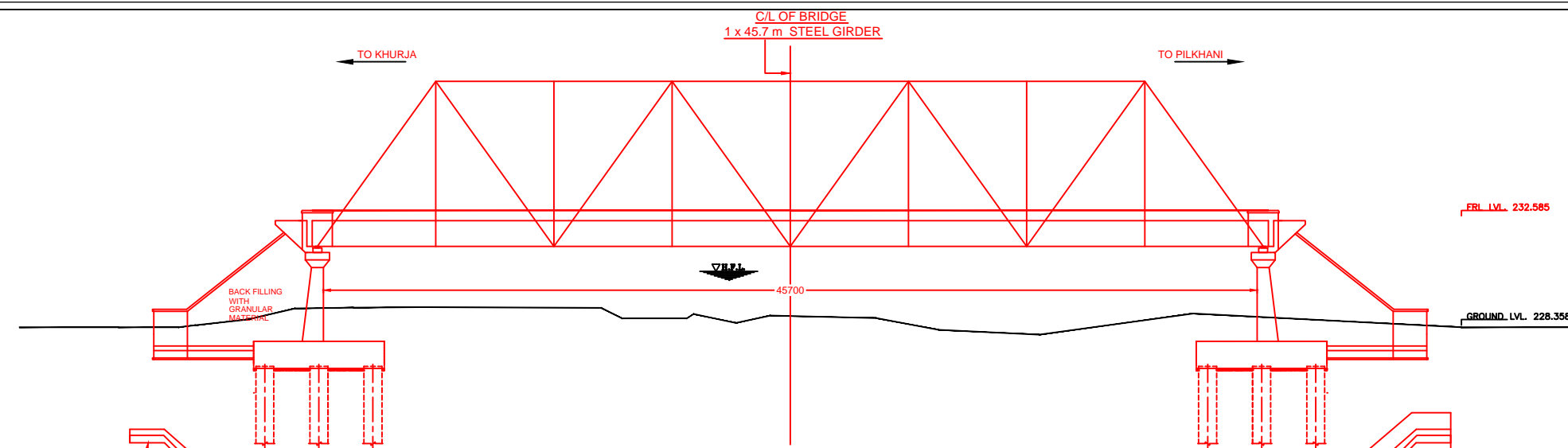
SECTION A-A

NOTES:-

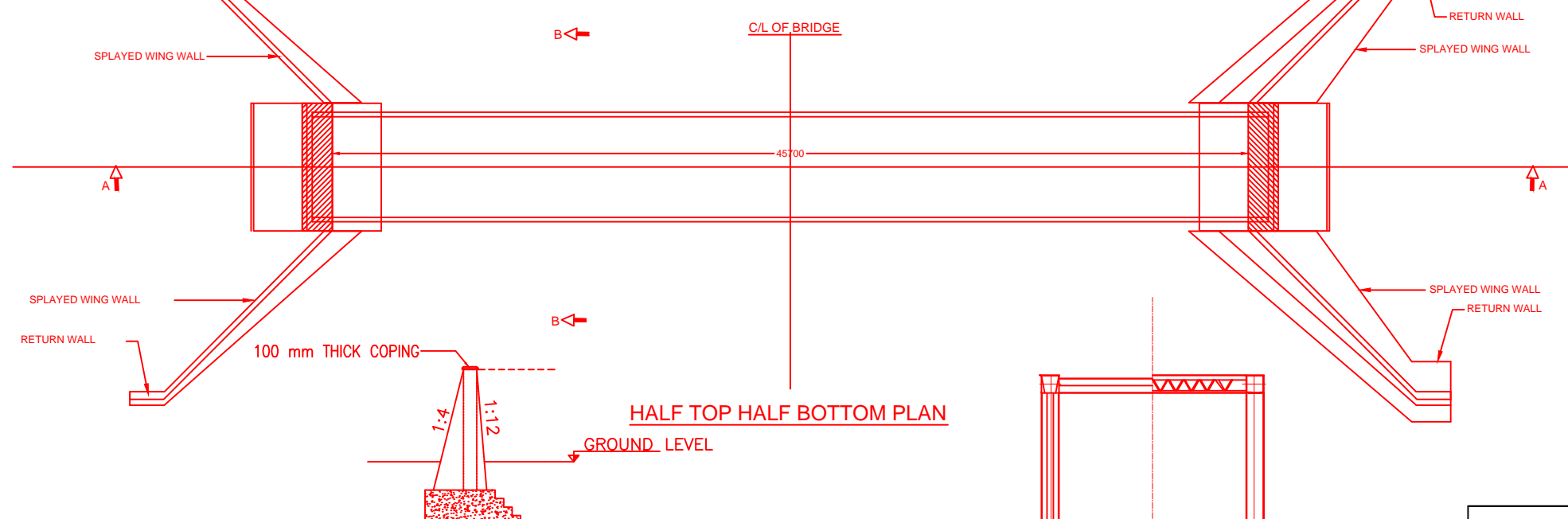
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INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 237 SPAN (1X12.2m) AT CH. 55850				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC237	R0

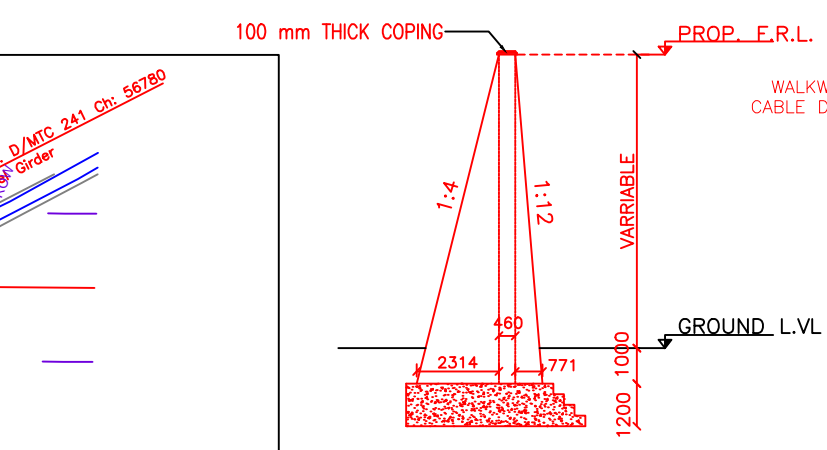


SECTIONAL ELEVATION AT A-A

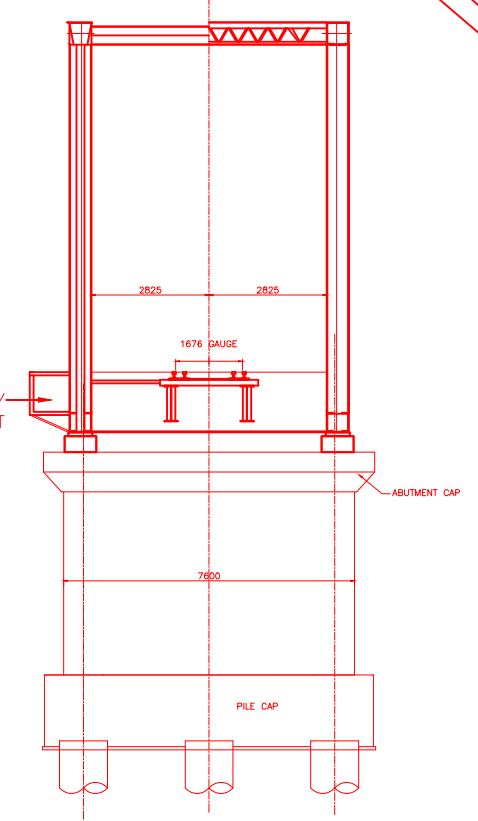


HALF TOP HALF BOTTOM PLAN

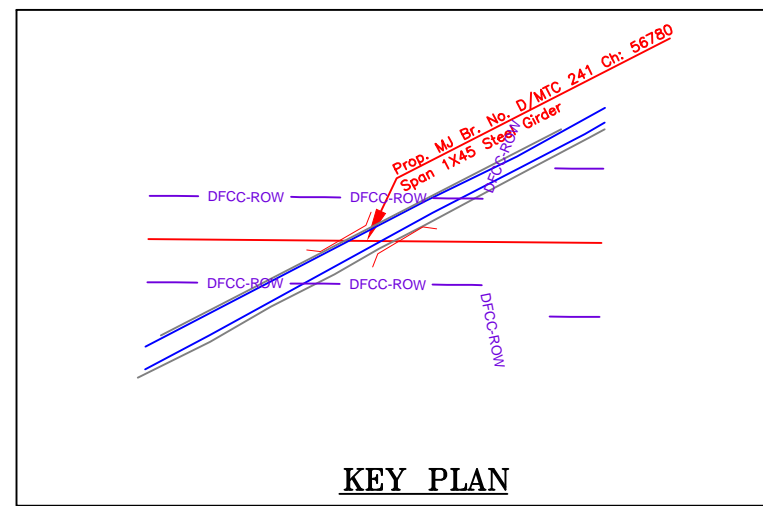
SECTION OF RETURN WALL



SECTION OF WING WALL



TYP. SEC. B-B



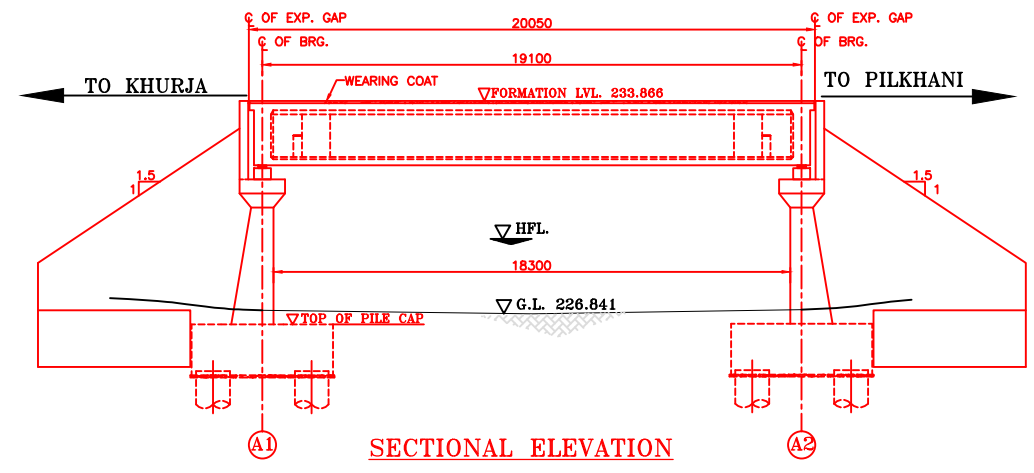
KEY PLAN

NOTES:-

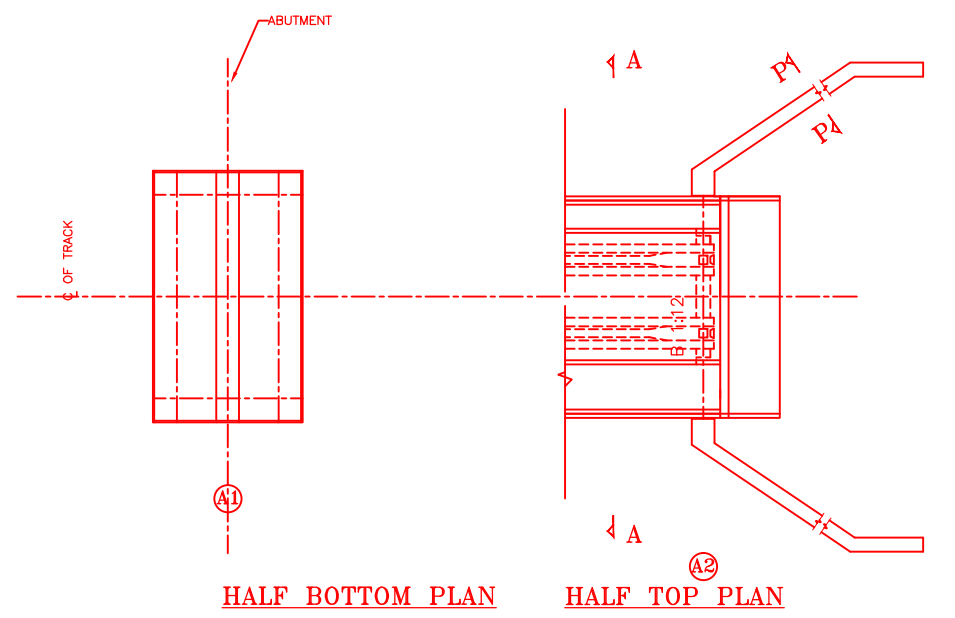
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INDICATIVE DRAWING

 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.						
GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 241 SPAN (1X45.7m) AT CH. 56780					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC241	R0

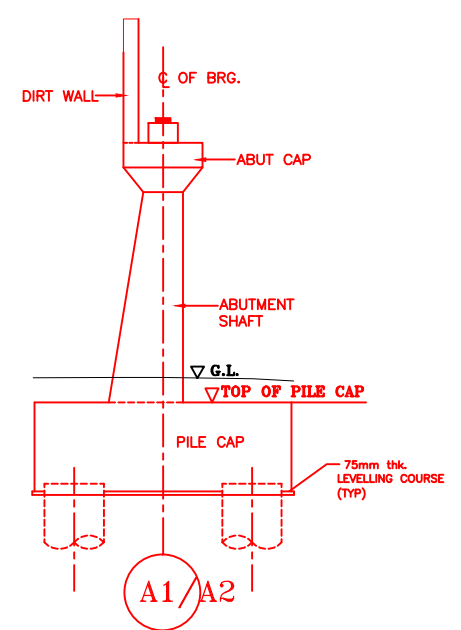


SECTIONAL ELEVATION

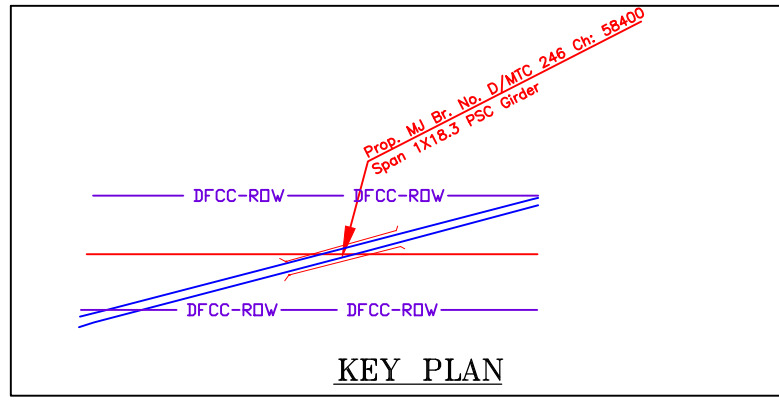


HALF BOTTOM PLAN

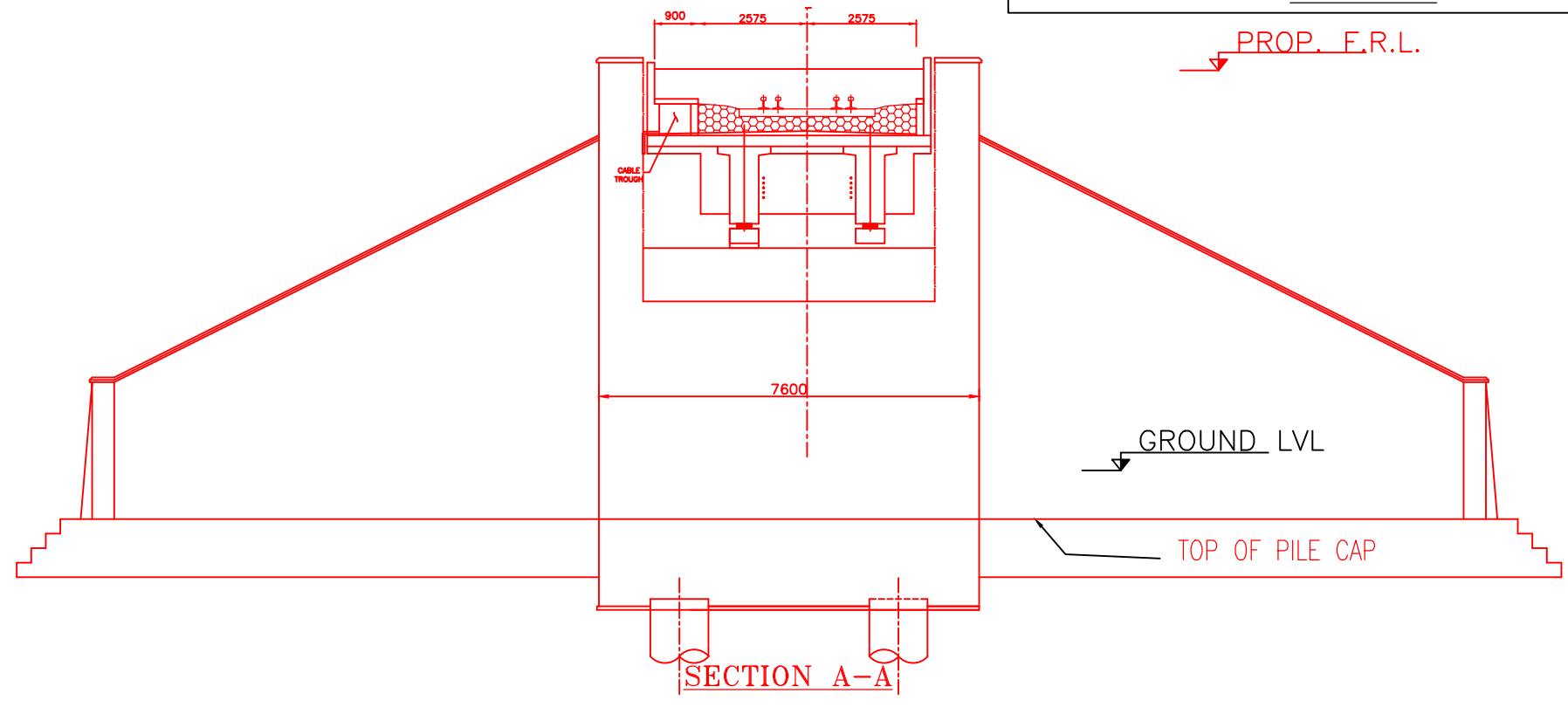
HALF TOP PLAN



DETAIL OF ABUTMENT



KEY PLAN




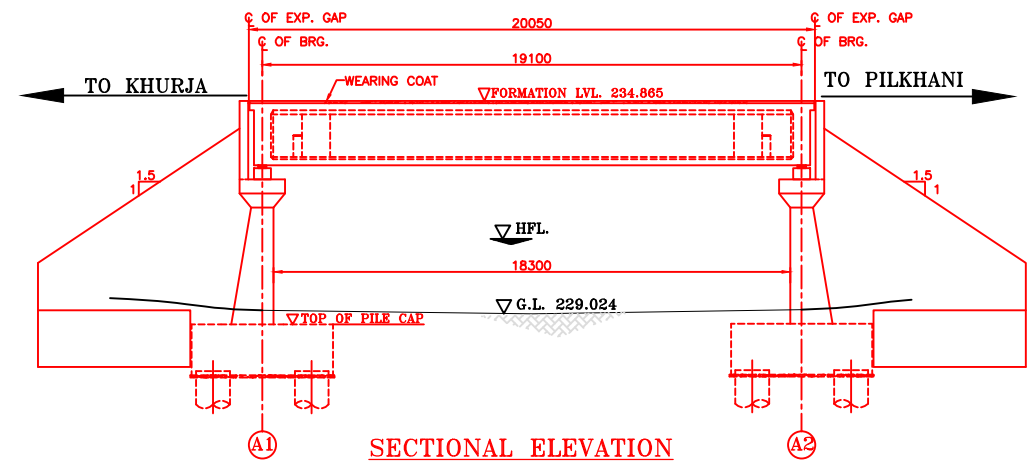
SECTION A-A

NOTES:-

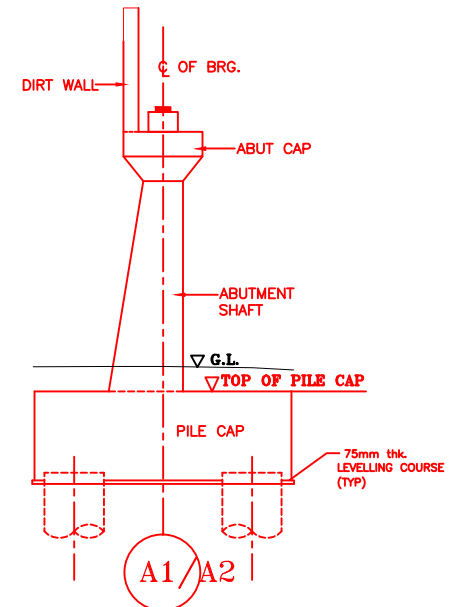
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INDICATIVE DRAWING

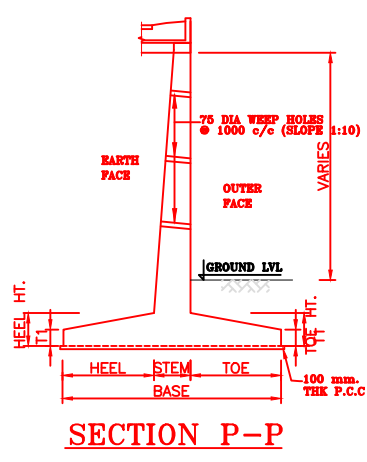
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.	
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	
EASTERN CORRIDOR		PROJECT	
KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		CONTRACT PACKAGE - 303	
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 246 SPAN (1X18.3m) AT CH. 58400	
TITLE		GENERAL ARRANGEMENT DRAWING	
SCALE	DATE	DRAWN BY	CHECKED BY
NTS	JUNE 2016		
APPROVED BY		DRG. NO.	
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REV.			
			R0



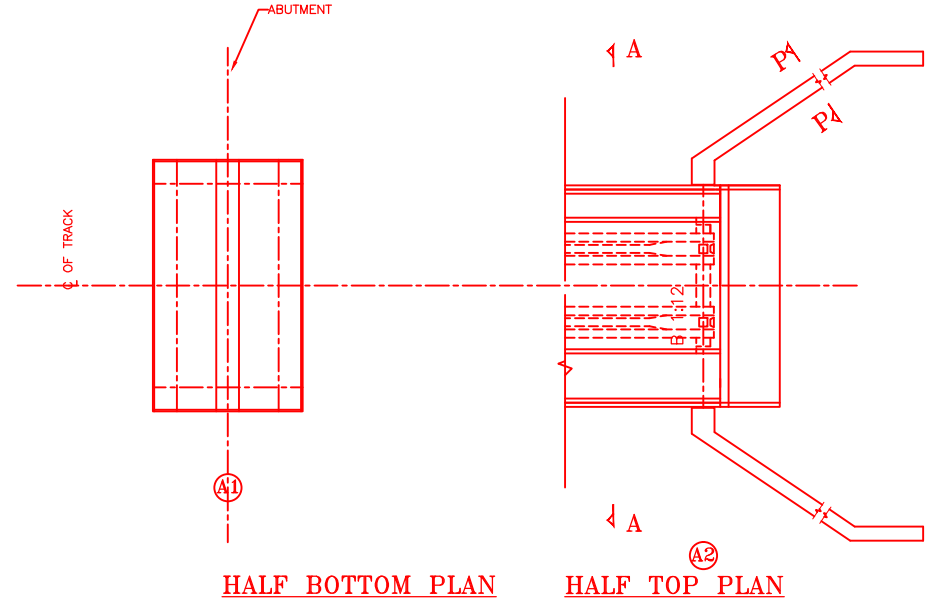
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

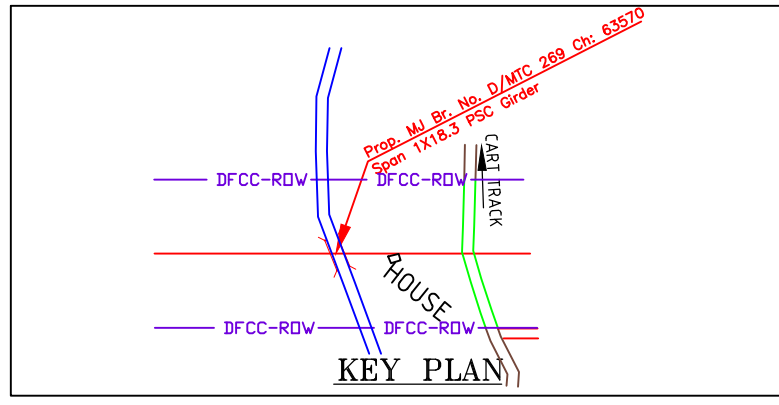


SECTION P-P

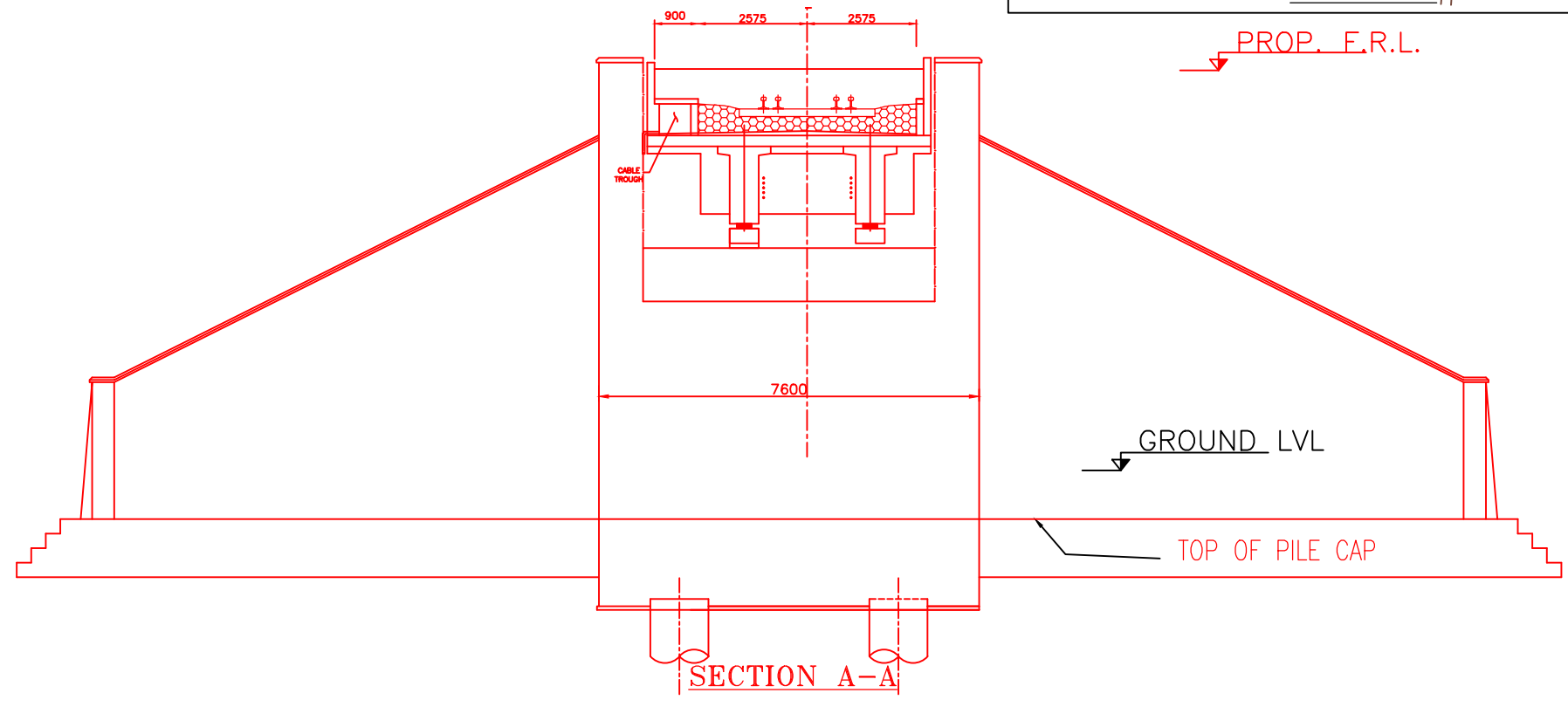


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



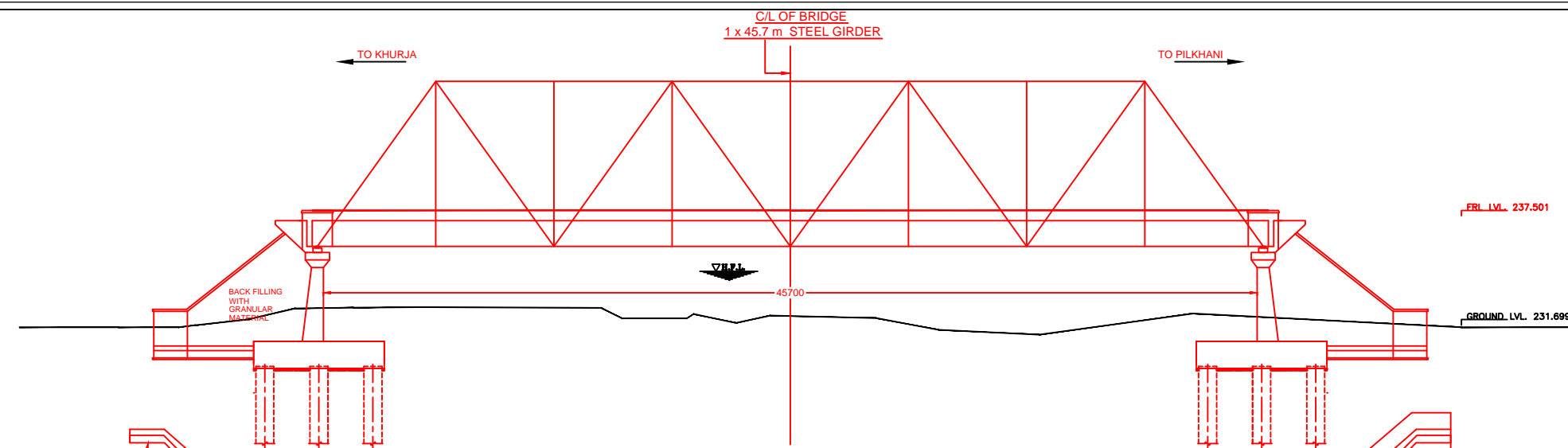
SECTION A-A

NOTES:-

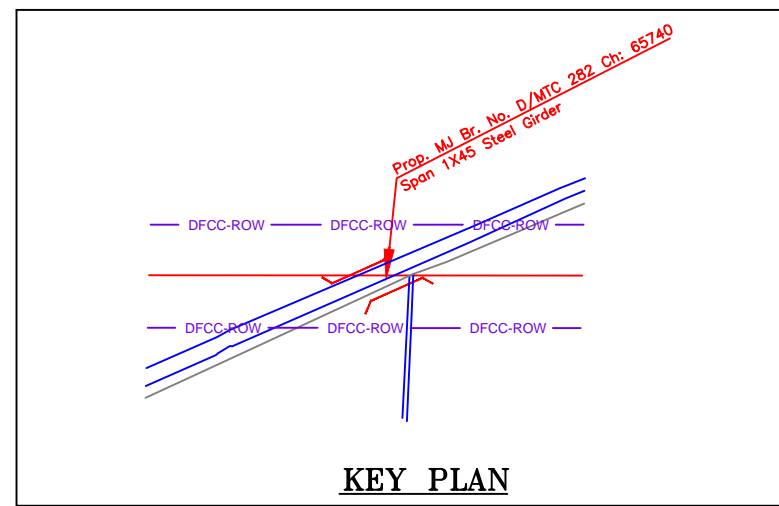
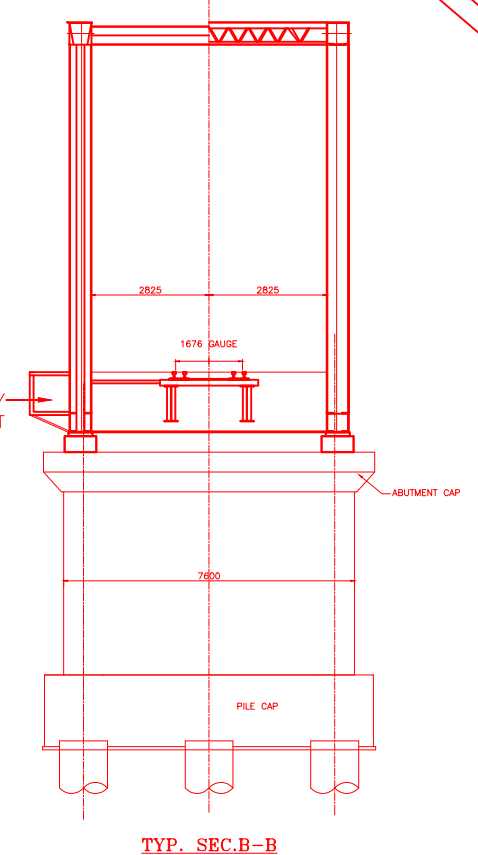
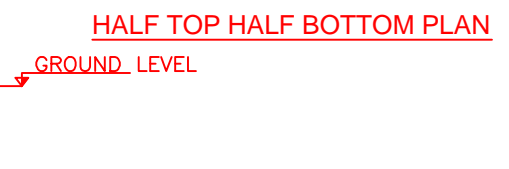
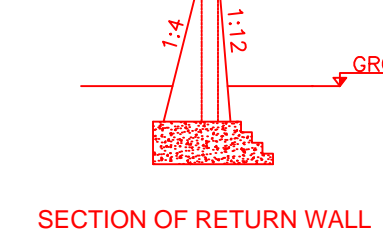
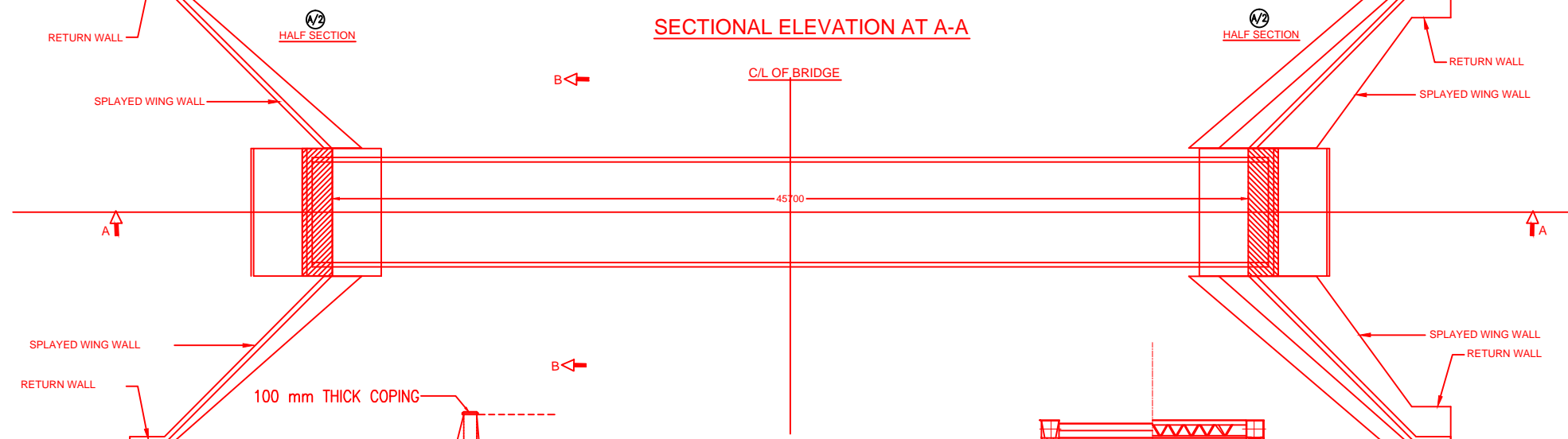
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15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MTC 269 SPAN (1X18.3m) AT CH. 63570				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC269	R0

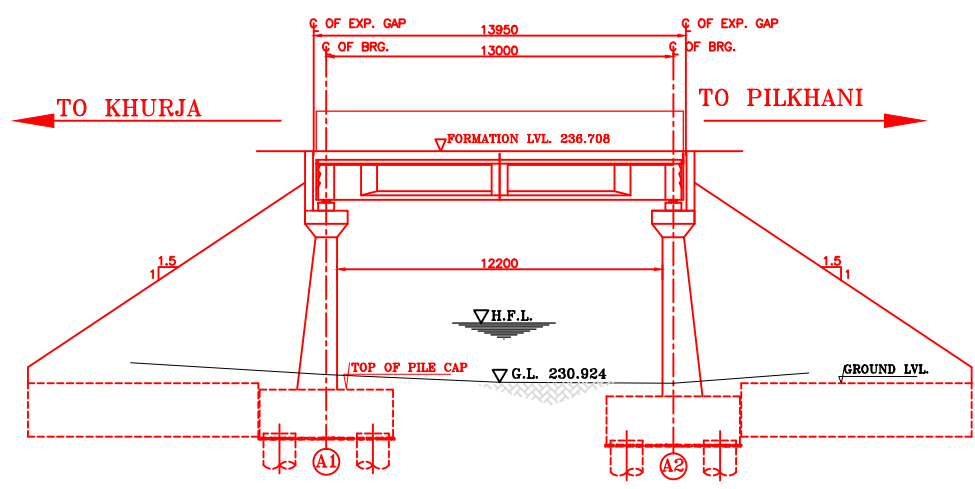


- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 - DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

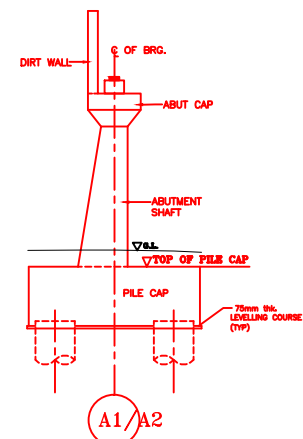


INDICATIVE DRAWING

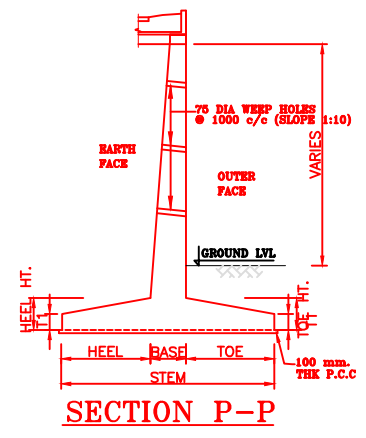
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.						
GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
PROJECT	EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
STRUCTURE	CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MTC 282 SPAN (1X45.7m) AT CH. 65740					
TITLE	GENERAL ARRANGEMENT DRAWING					
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC282	R0



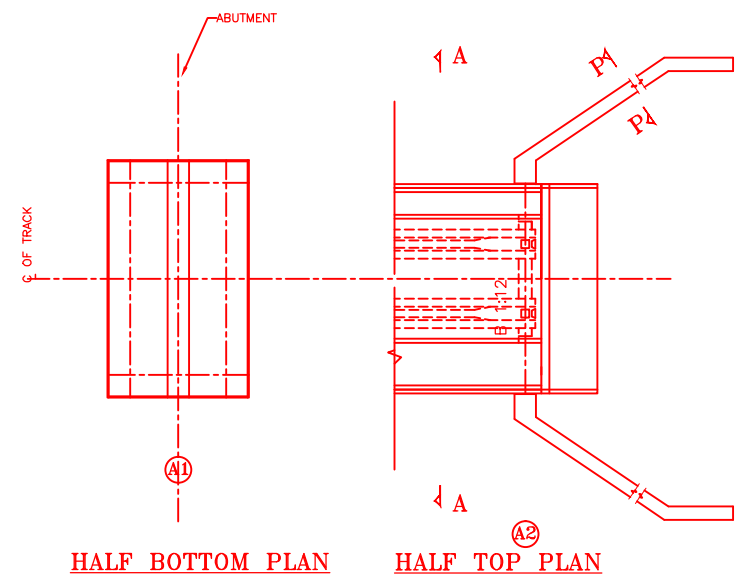
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

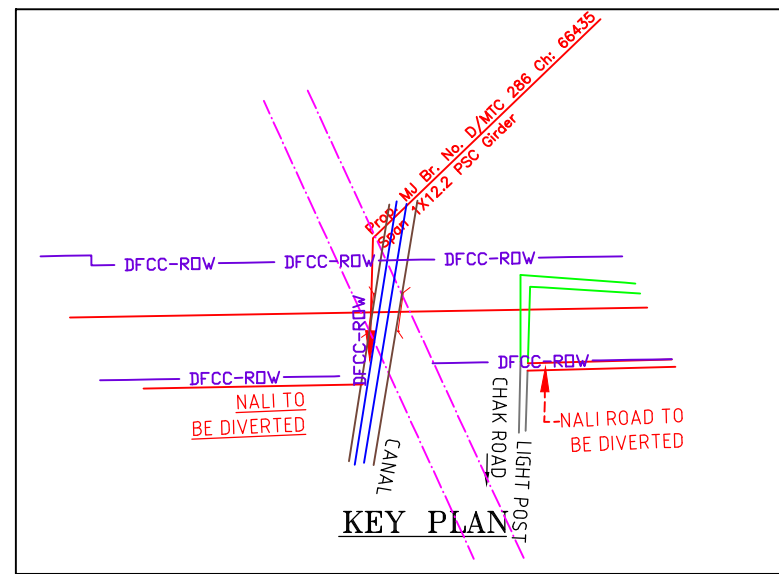


SECTION P-P

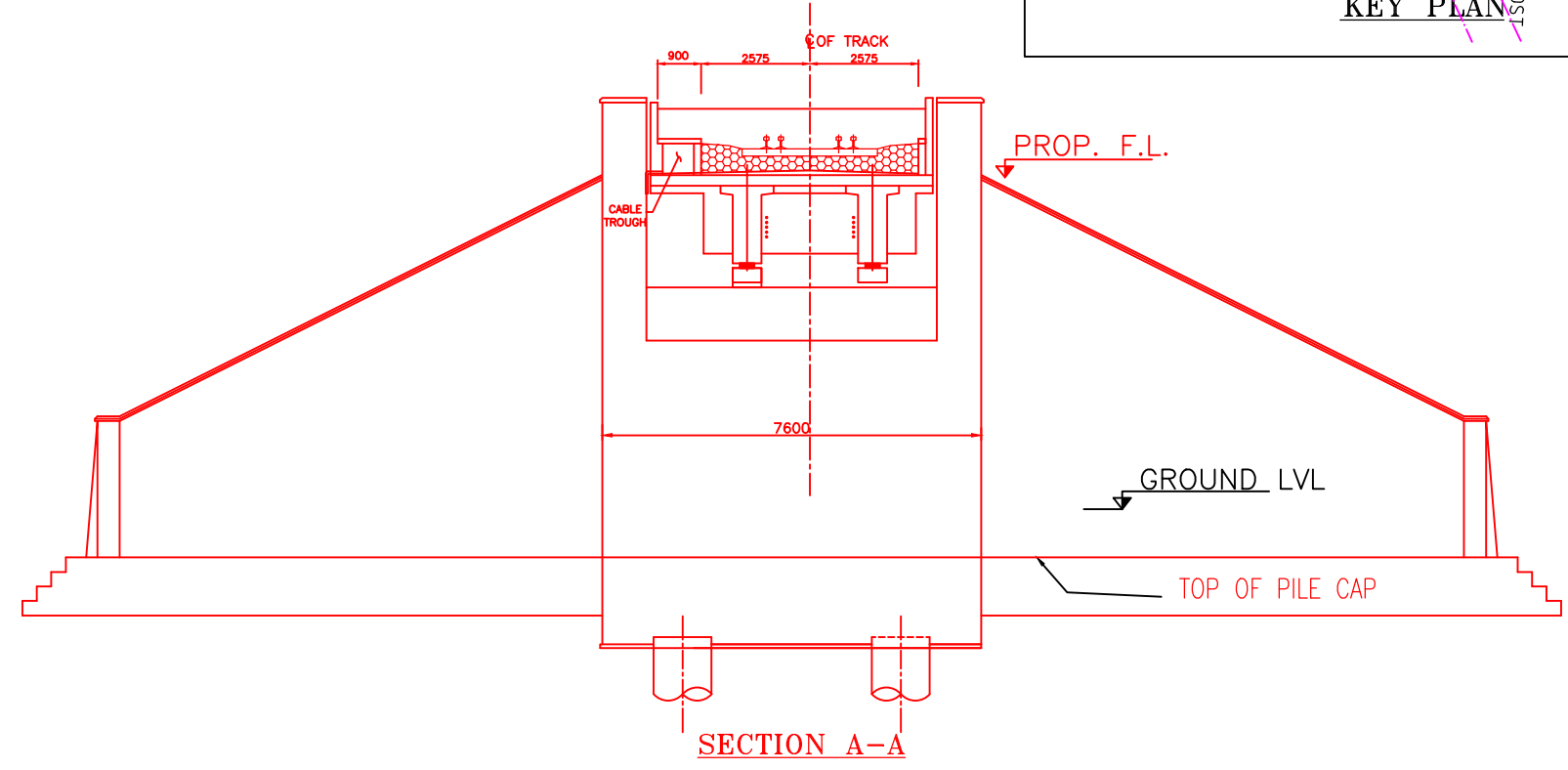


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



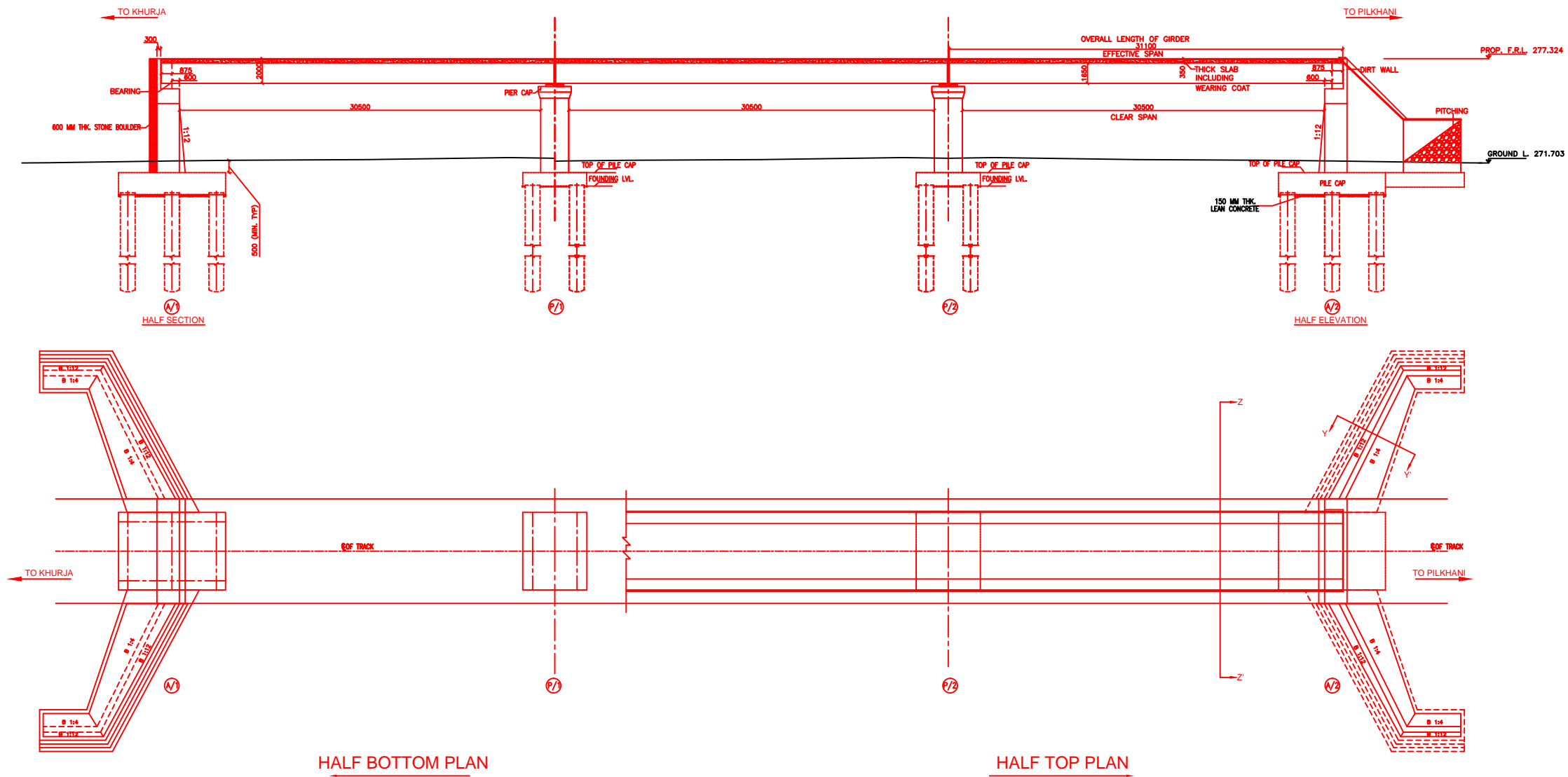
SECTION A-A

NOTES:-



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

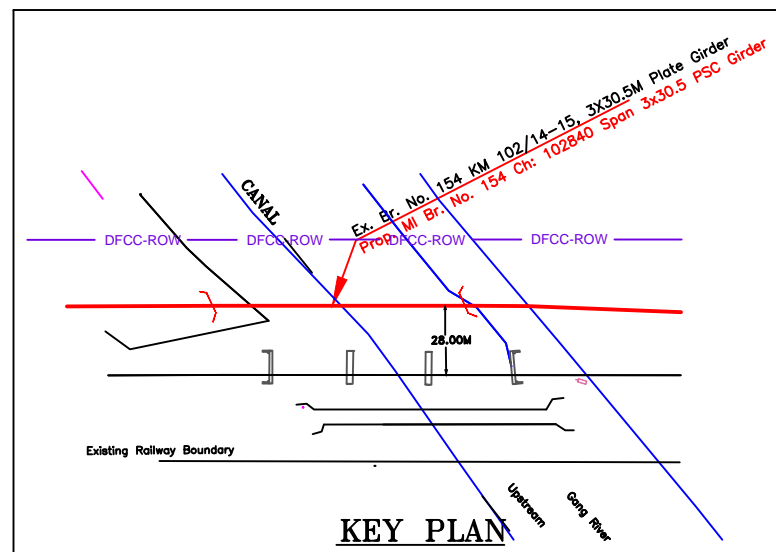
INDICATIVE DRAWING

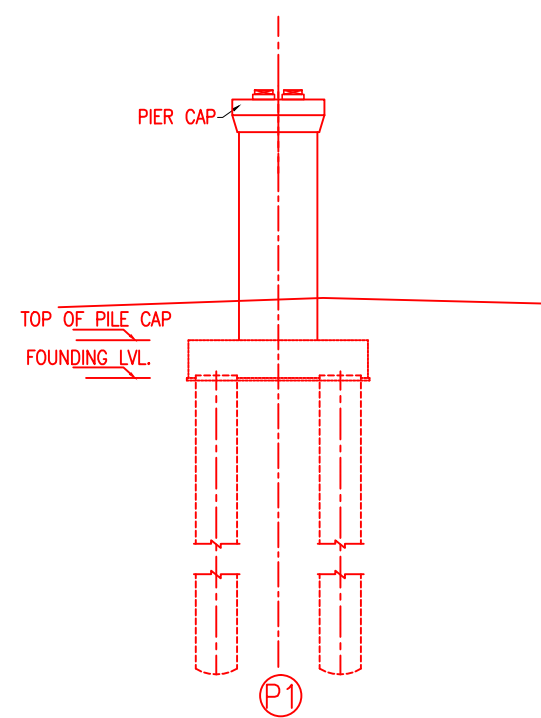
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MTC 286 SPAN (1X12.2m) AT CH. 66435				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MTC286	R0



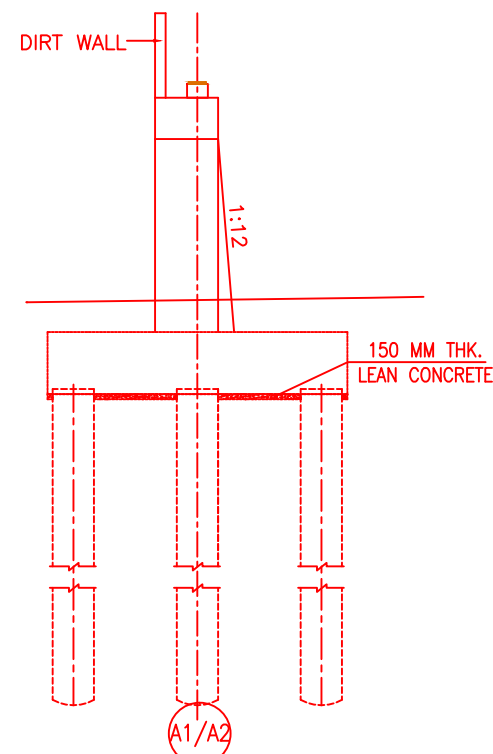
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR BR. NO. 154 SPAN (3X30.5m) AT CH. 102840				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/154 SHEET 1 OF 2	R0

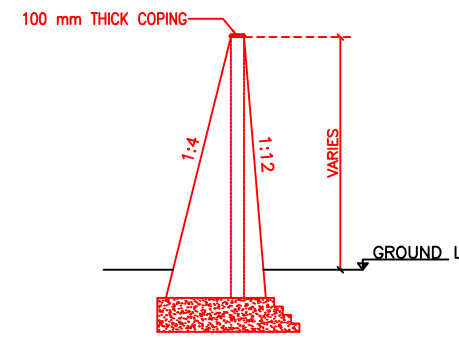




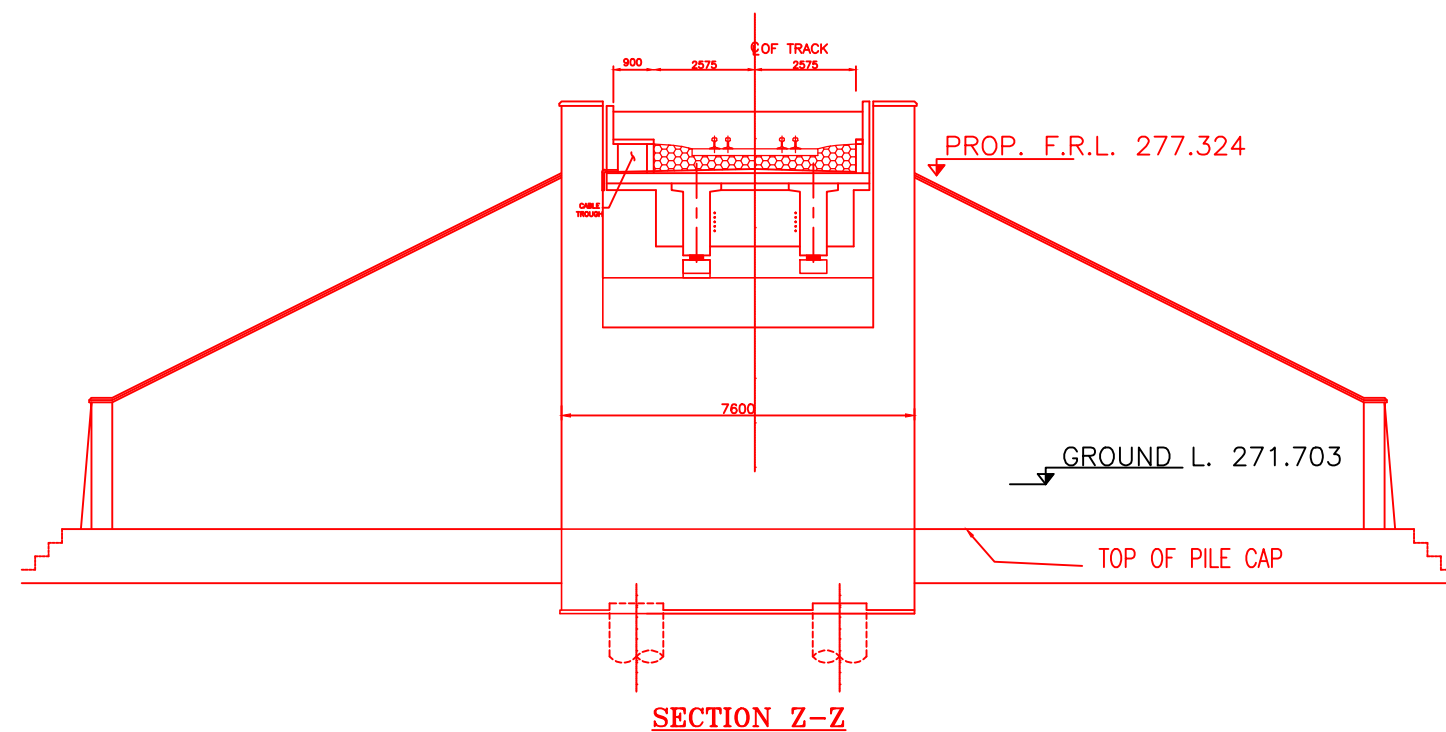
DETAIL OF PIER



DETAIL OF ABUTMENT



SECTION OF WING WALL AT Y-Y





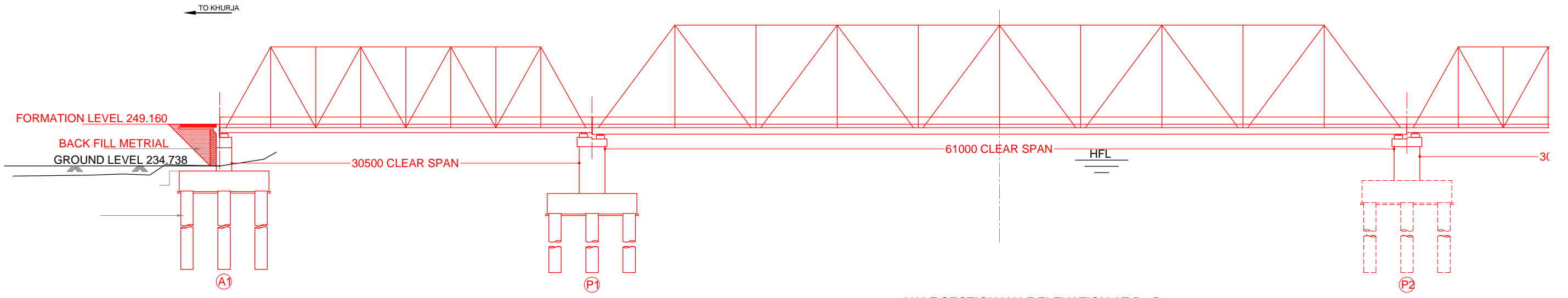
SECTION Z-Z

NOTES:-

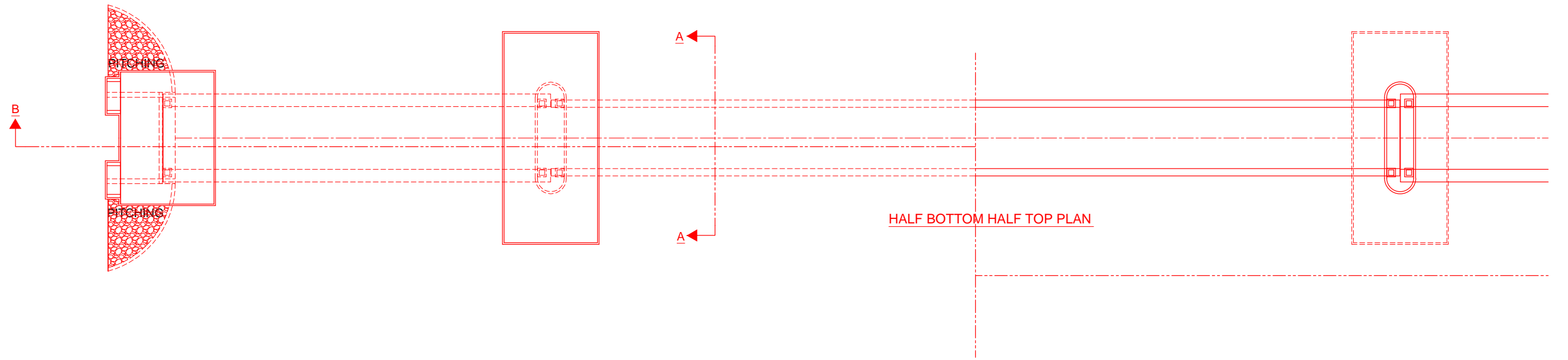
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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INDICATIVE DRAWING

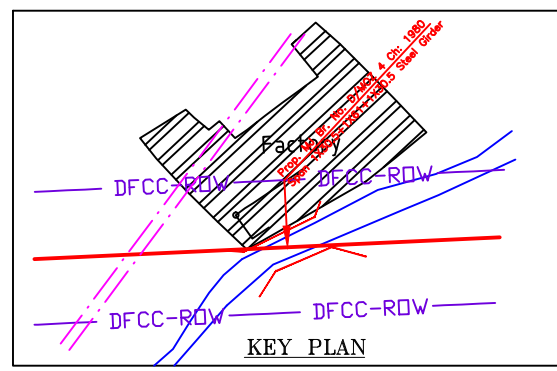
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. 154 SPAN (3X30.5m) AT CH. 102840				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/154 SHEET 2 OF 2	R0



HALF SECTION HALF ELEVATION AT B - B



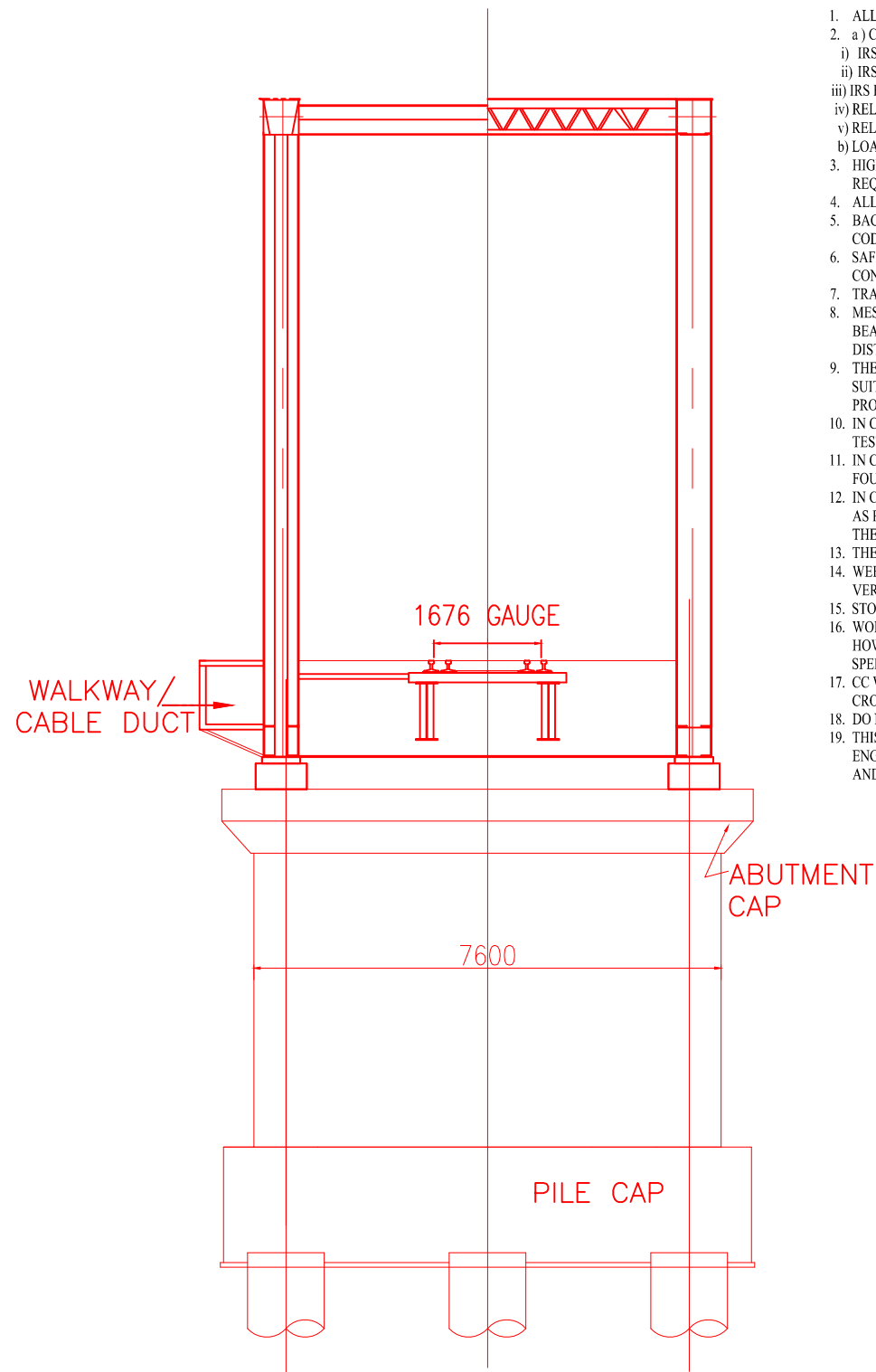
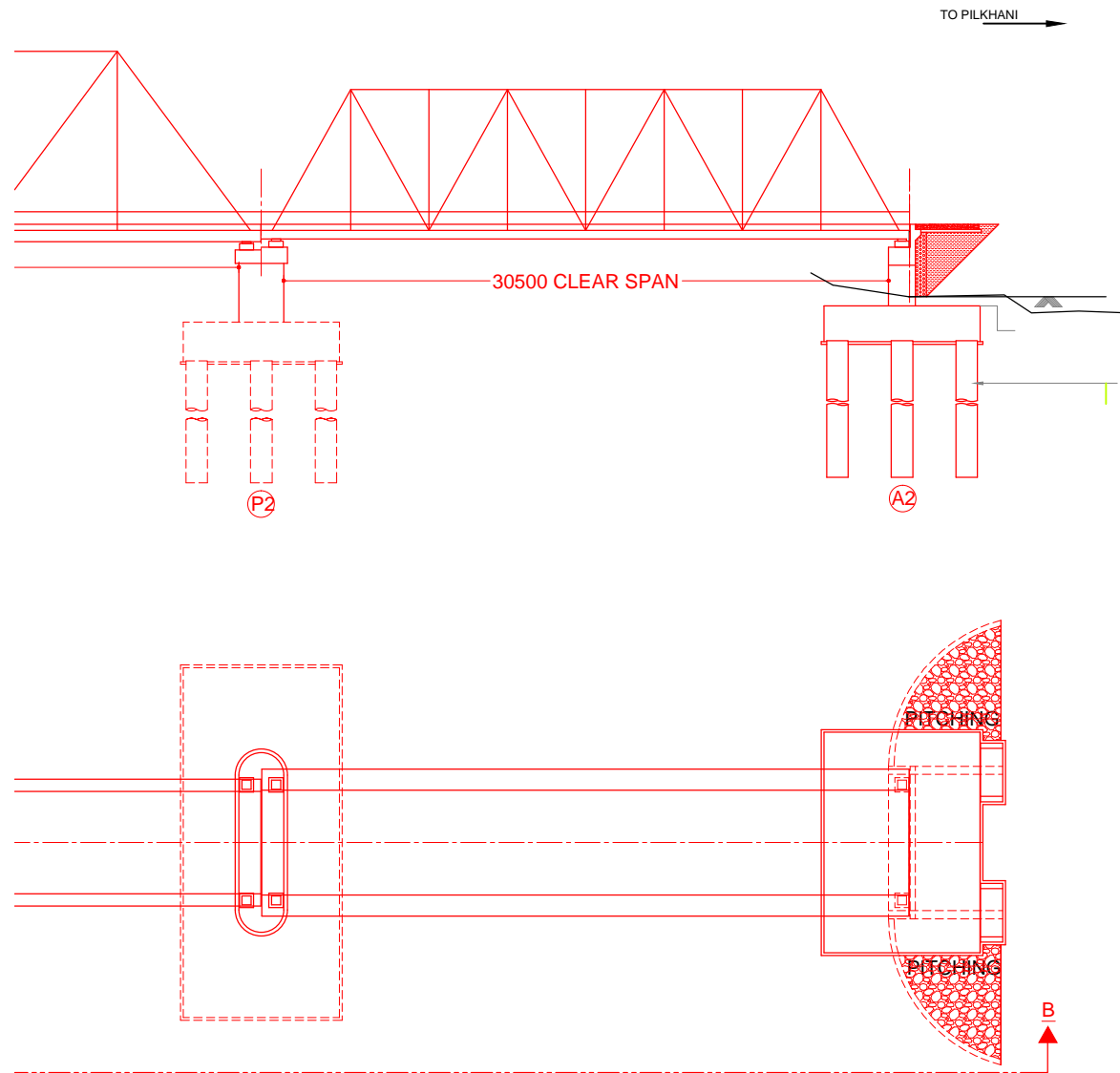
HALF BOTTOM HALF TOP PLAN



KEY PLAN

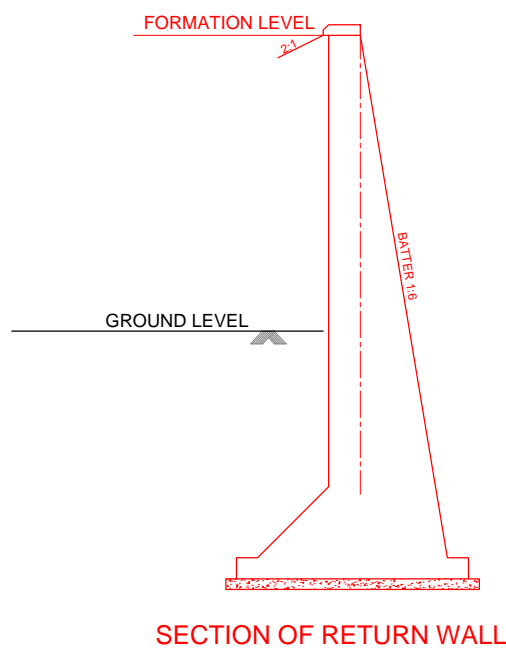
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MOZ 4 SPAN (1X30.5+1X61+1X30.5m) AT CH. 1980				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ4 SHEET 1 OF 2	R0



NOTES:-

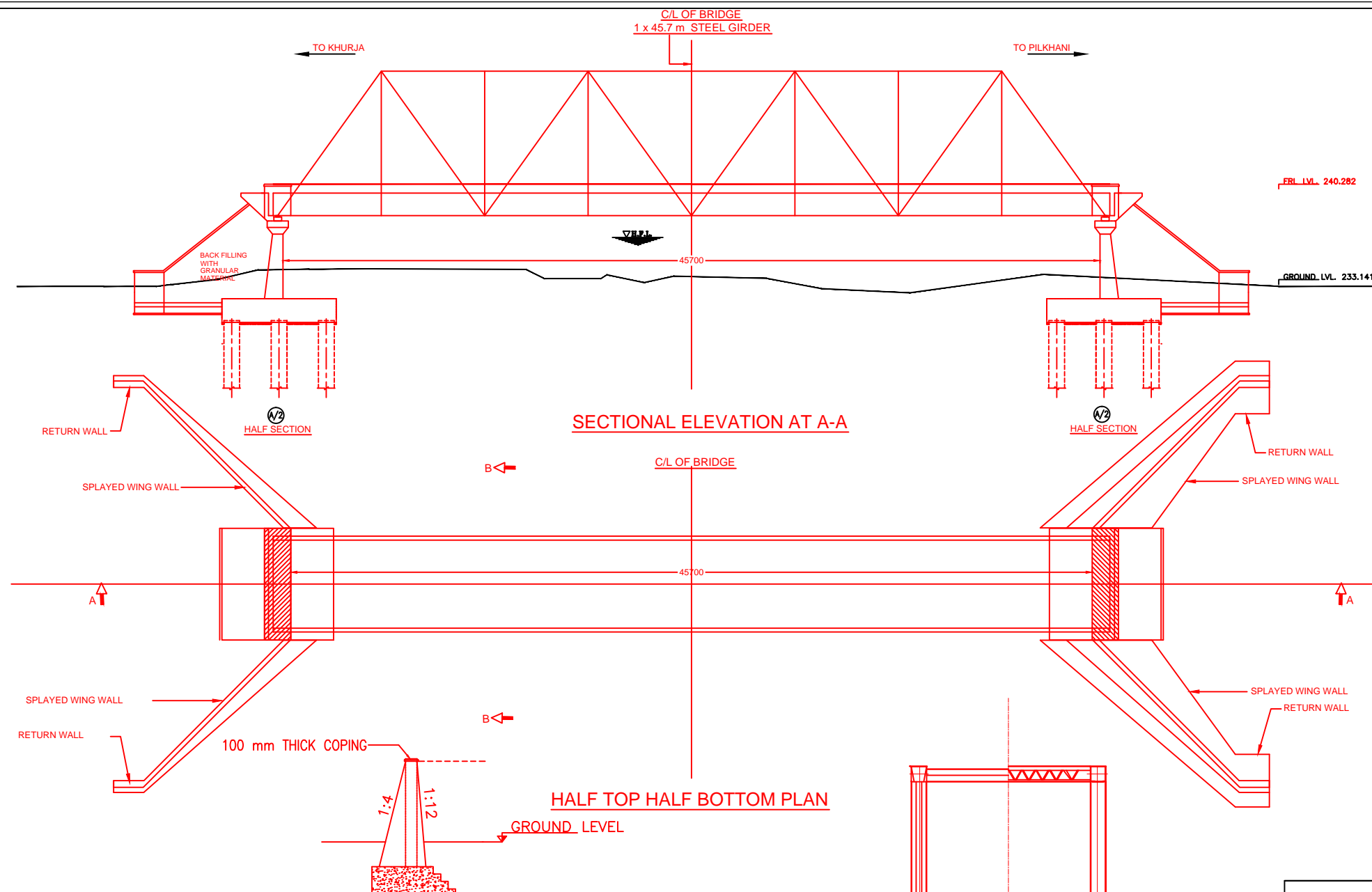
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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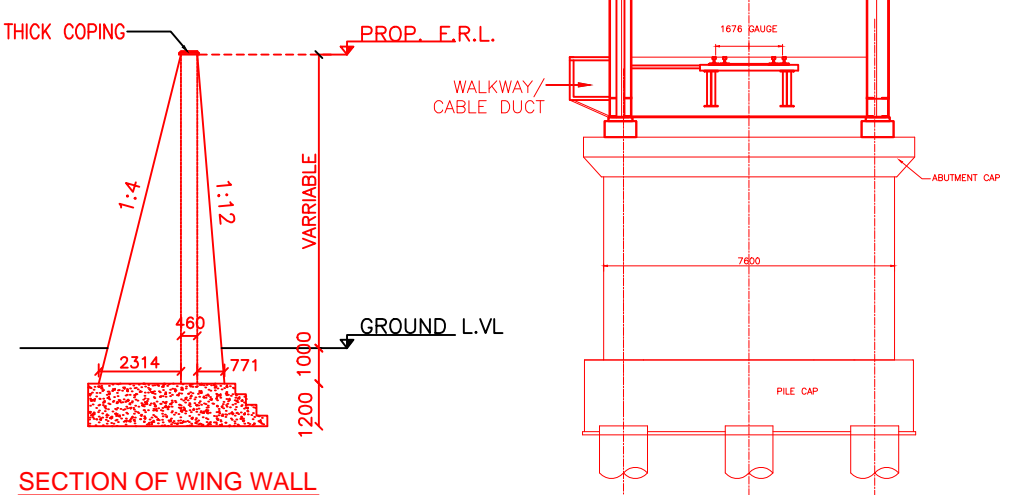
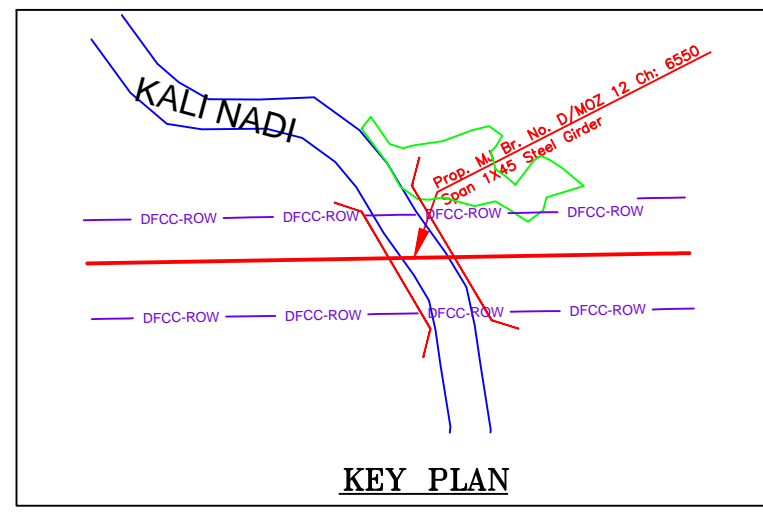
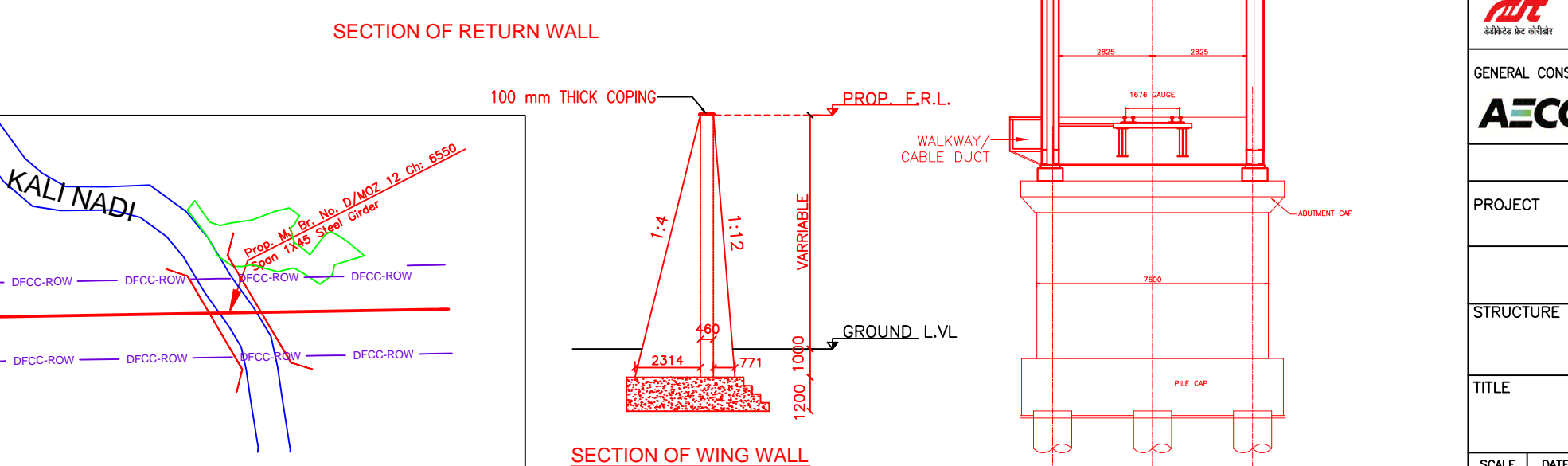
TYPICAL CROSS SECTION A-A

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.	
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	
		EASTERN CORRIDOR	
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)	
		CONTRACT PACKAGE - 303	
STRUCTURE		PROPOSED MAJOR BR. NO. D/MOZ 4 SPAN (1X30.5+1X61+1X30.5m) AT CH. 1980	
TITLE		GENERAL ARRANGEMENT DRAWING	
SCALE	DATE	DRAWN BY	CHECKED BY
NTS	JUNE 2016		
		APPROVED BY	DRG. NO.
			AECOM/303/MJR/D/MOZ4
			SHEET 2 OF 2
			REV.
			R0

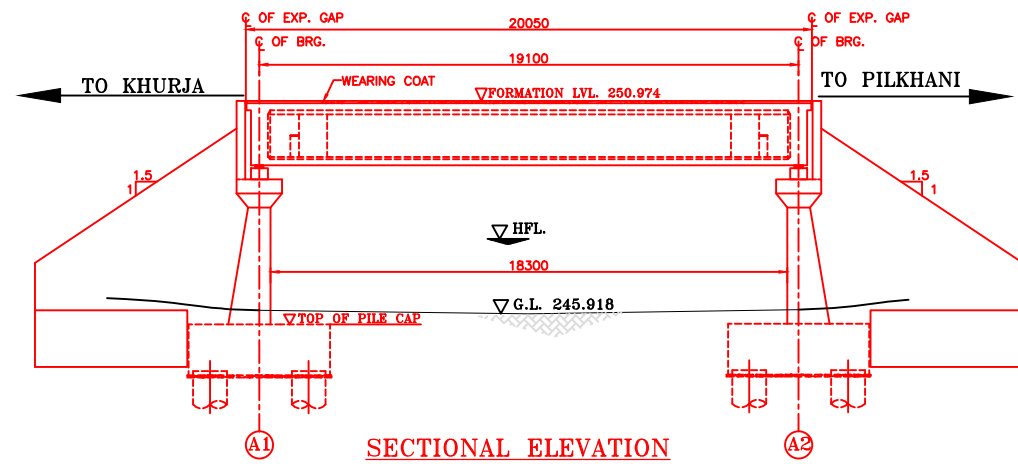


- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 - DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

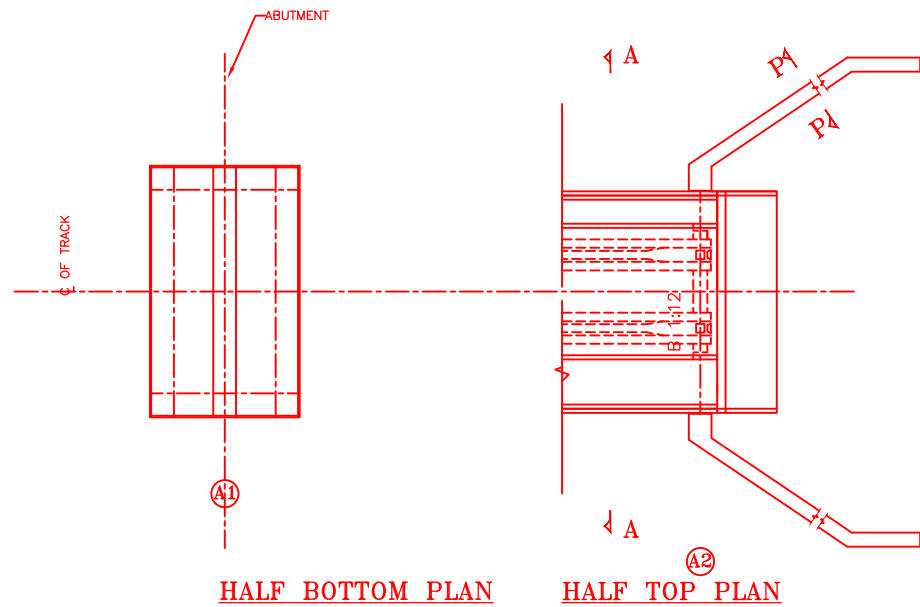


INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 12 SPAN (1X45.7m) AT CH. 6550				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ12	R0

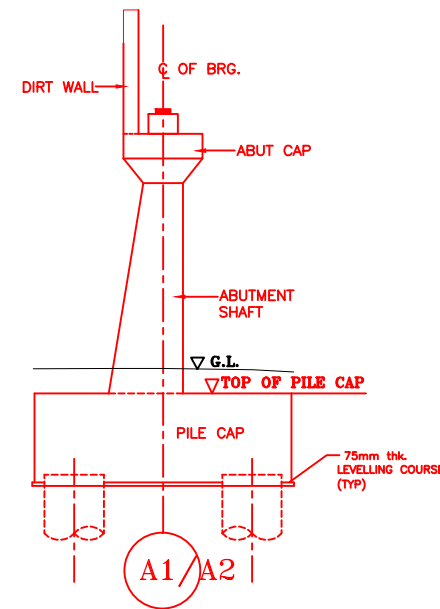


SECTIONAL ELEVATION

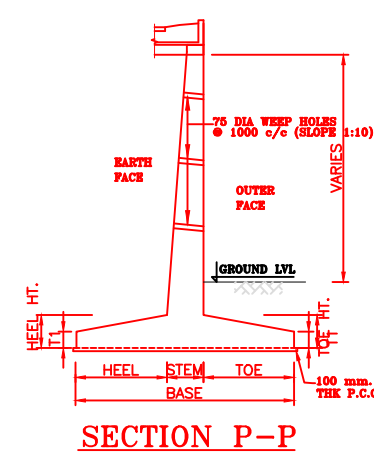


HALF BOTTOM PLAN

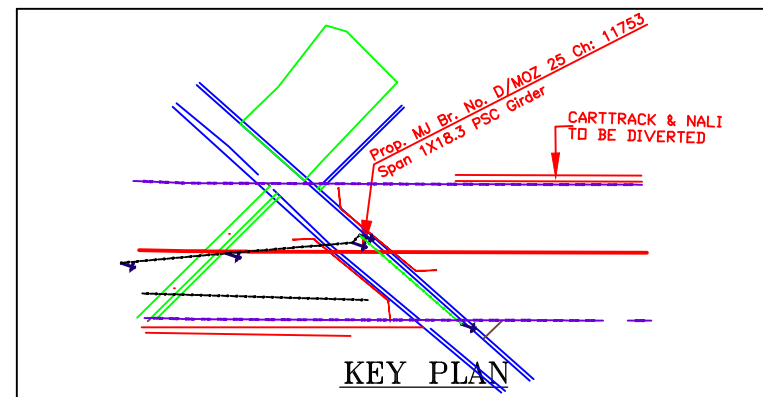
HALF TOP PLAN



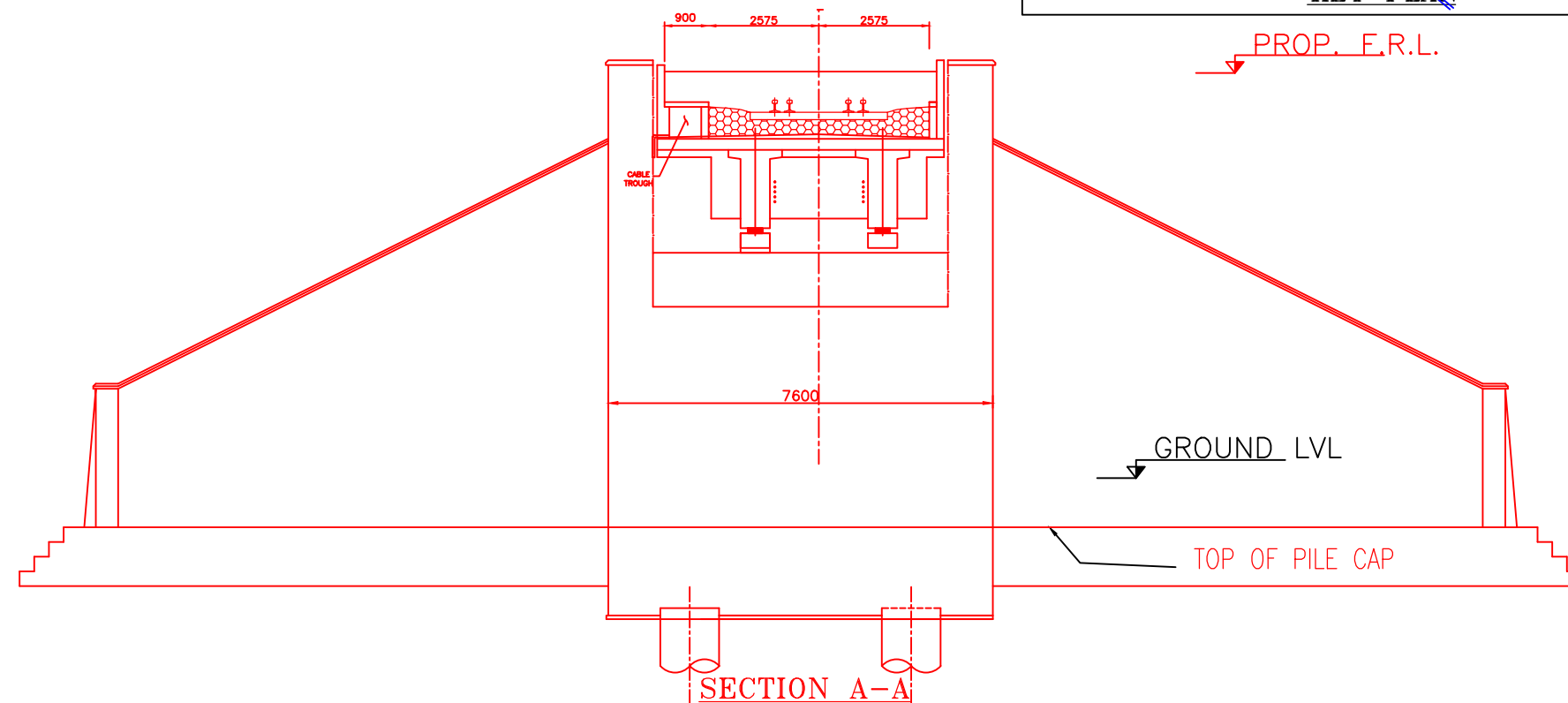
DETAIL OF ABUTMENT



SECTION P-P



KEY PLAN



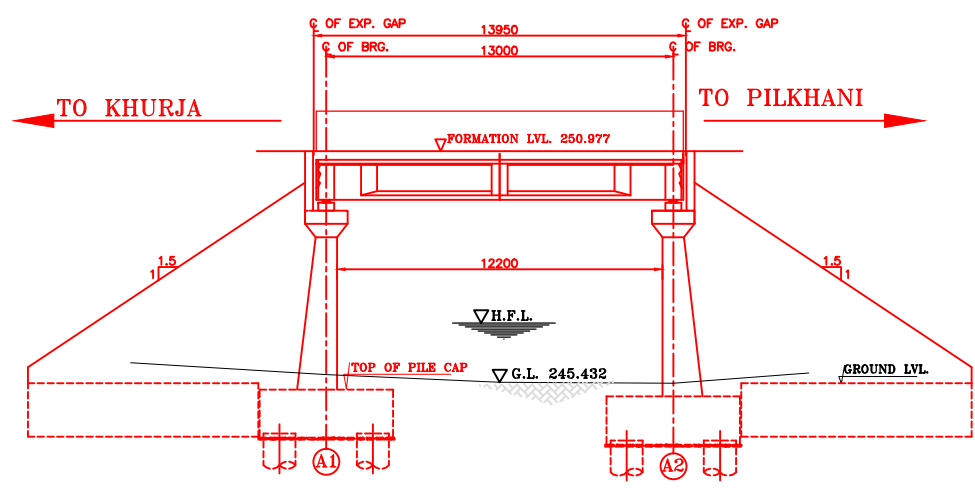
SECTION A-A

NOTES:-

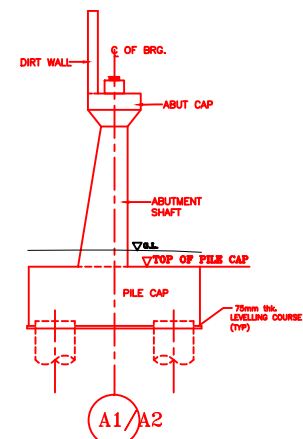
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

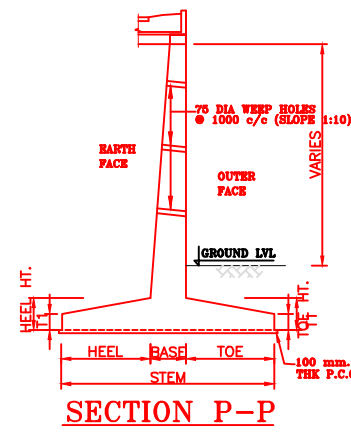
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GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MOZ 25 SPAN (1X18.3m) AT CH. 11753				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ25	R0



SECTIONAL ELEVATION



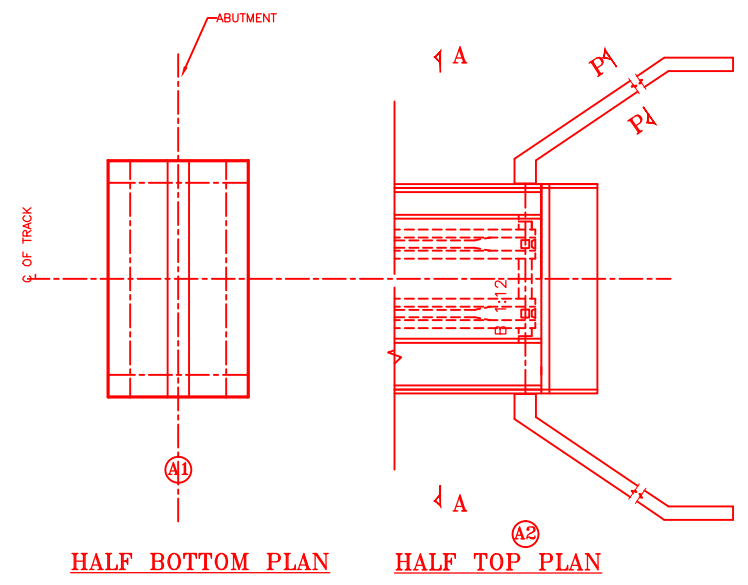
DETAIL OF ABUTMENT



SECTION P-P

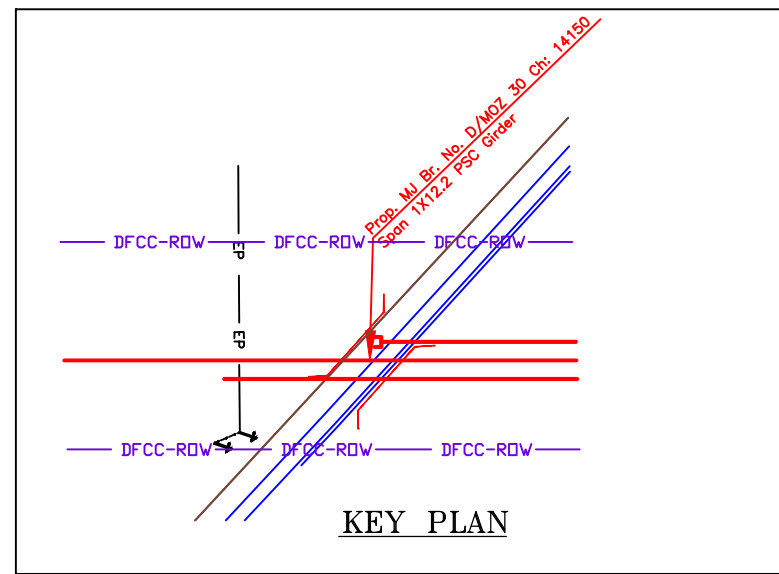
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
7. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
11. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
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15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
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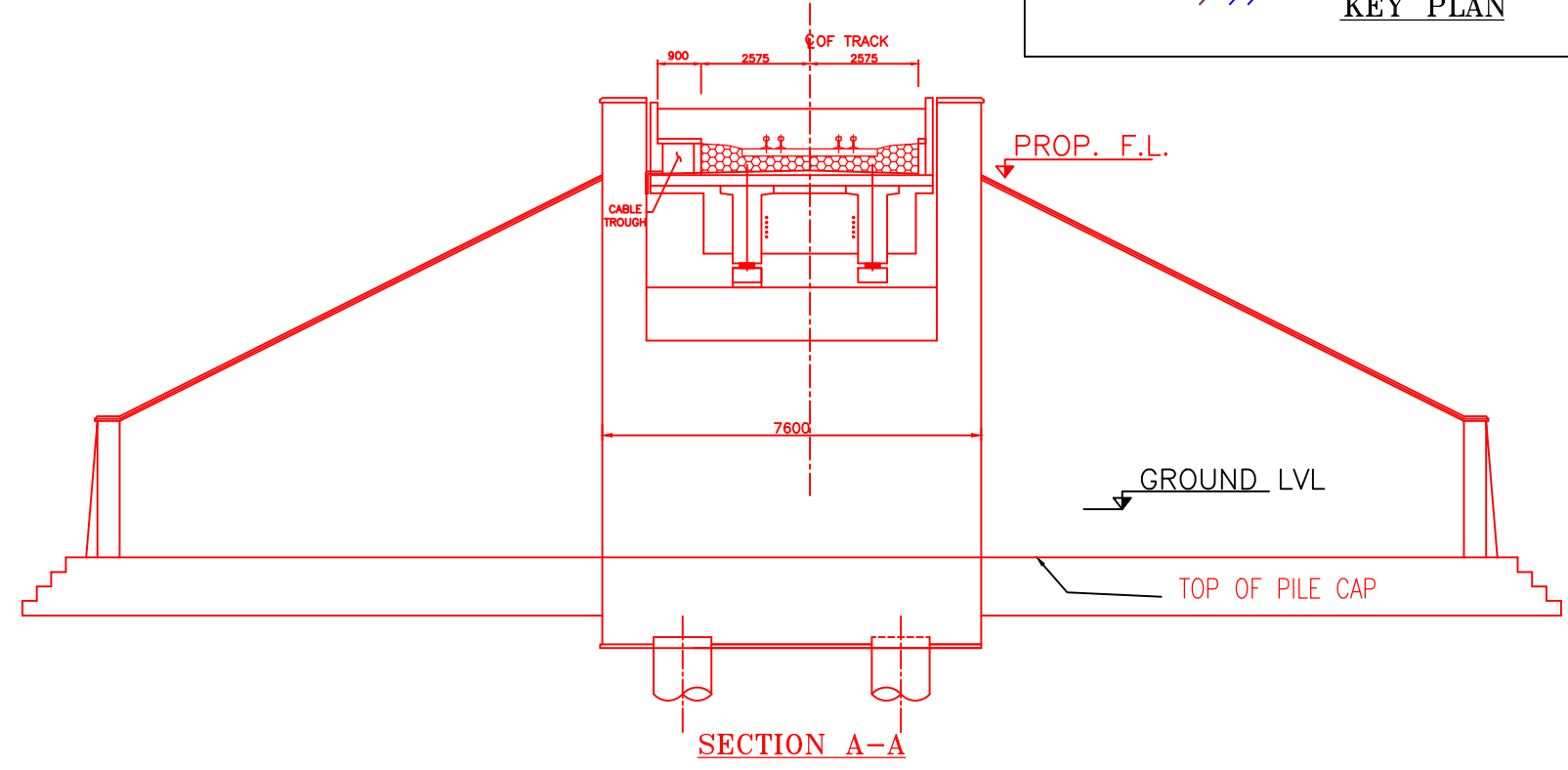


HALF BOTTOM PLAN

HALF TOP PLAN



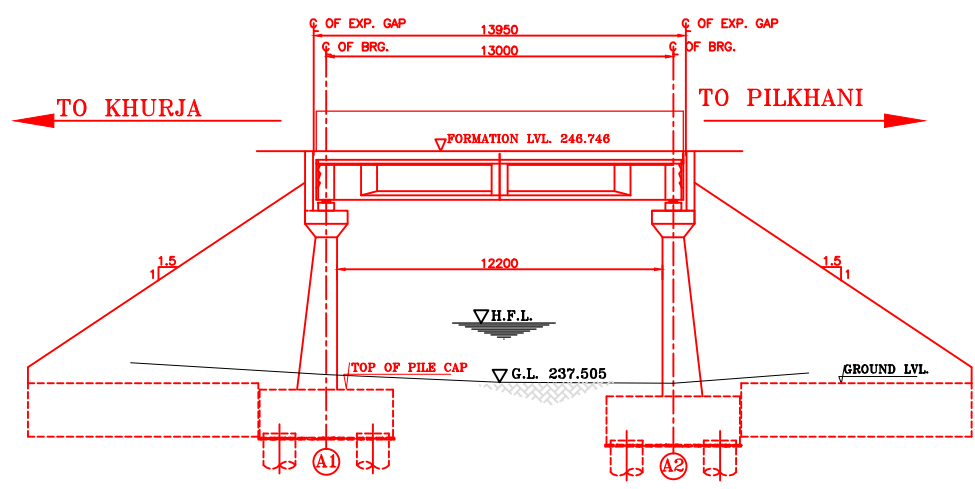
KEY PLAN



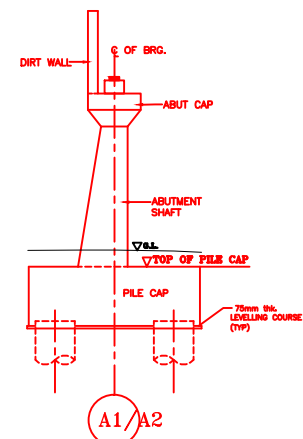
SECTION A-A

INDICATIVE DRAWING

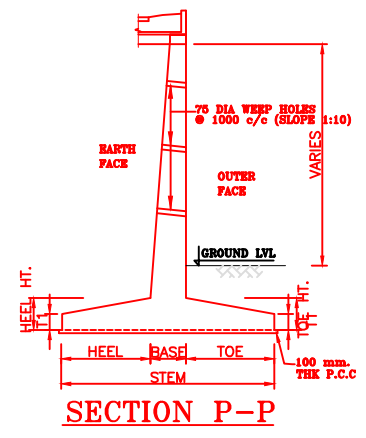
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MOZ 30 SPAN (1X12.2m) AT CH. 14150					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ30	R0



SECTIONAL ELEVATION



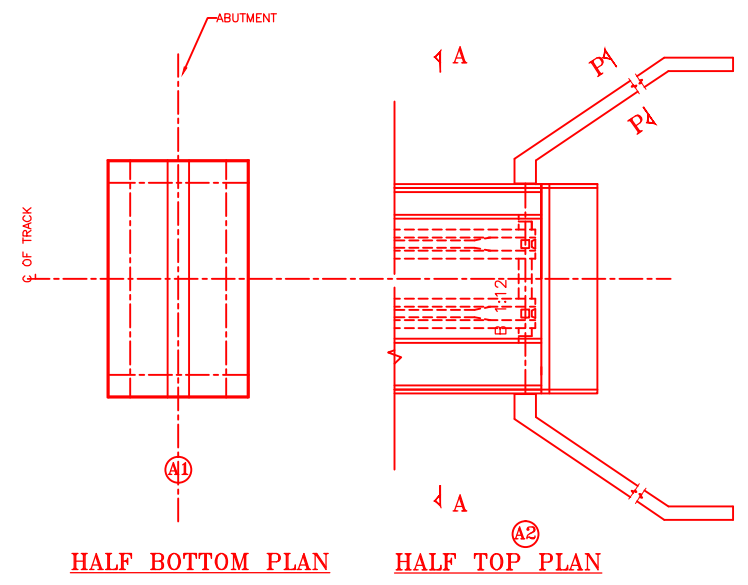
DETAIL OF ABUTMENT



SECTION P-P

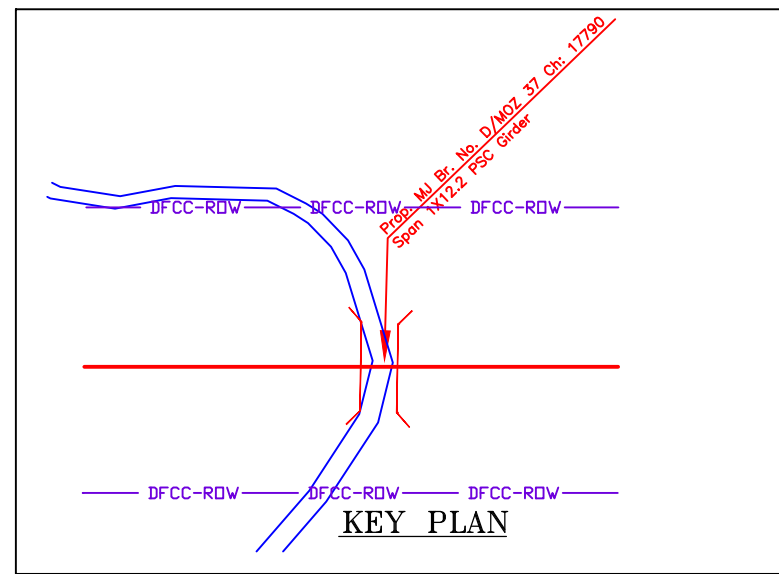
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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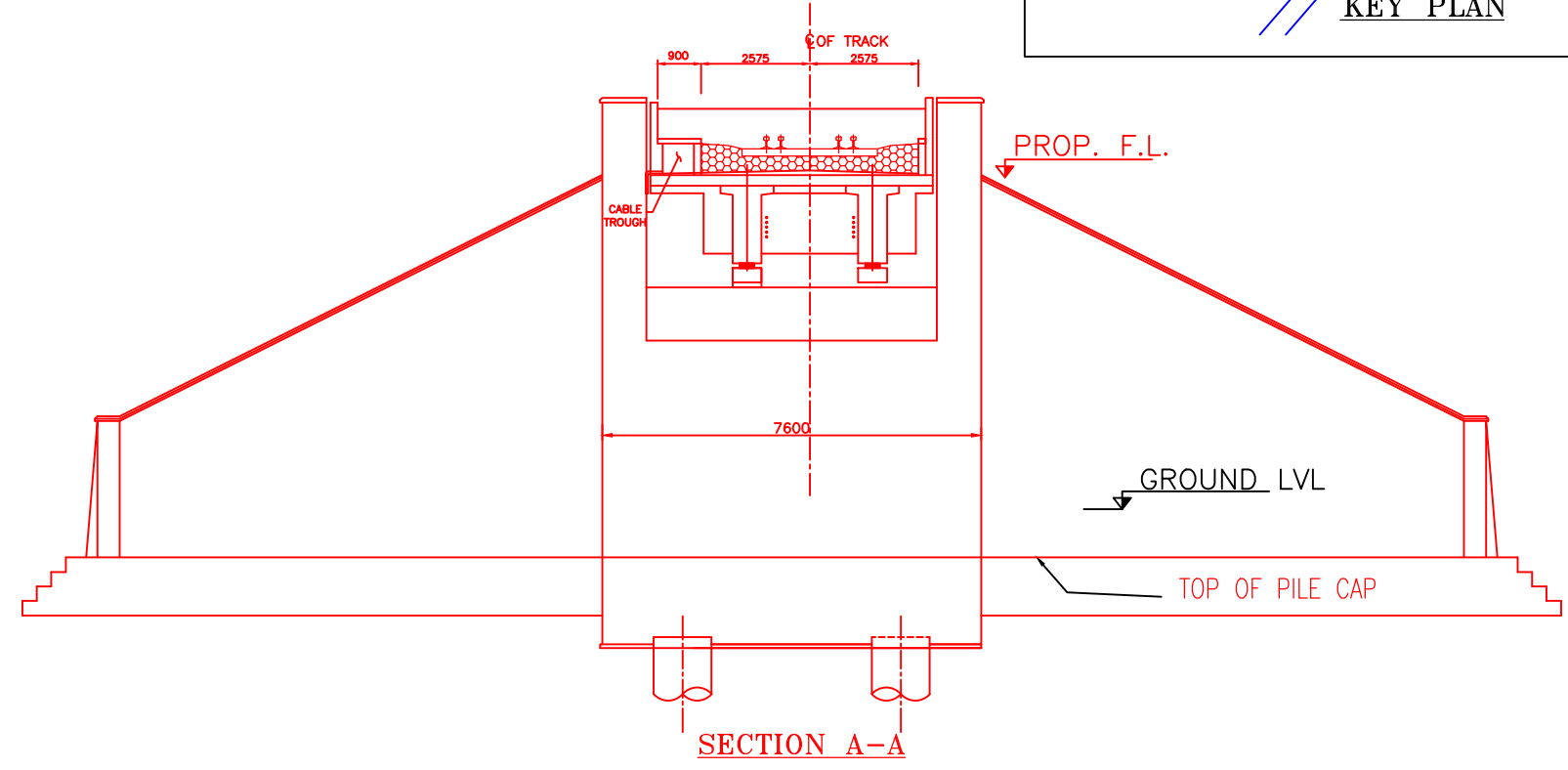


HALF BOTTOM PLAN

HALF TOP PLAN




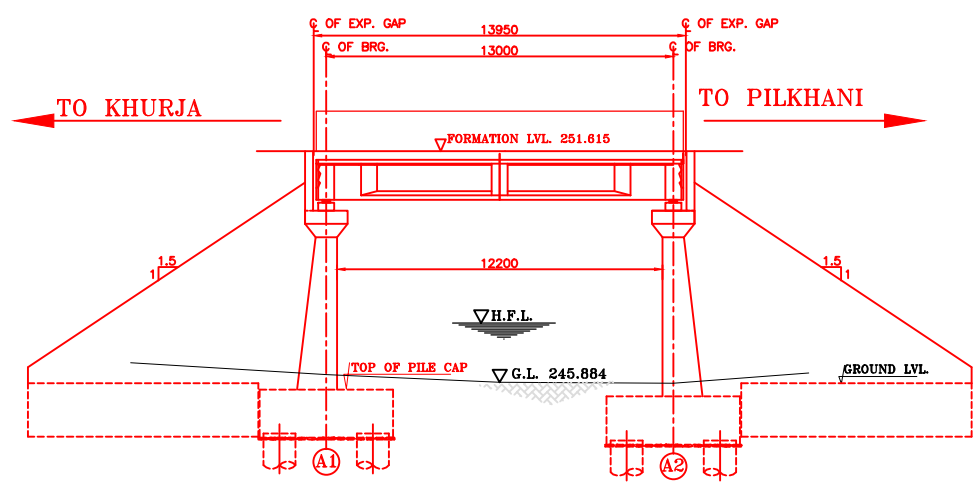
KEY PLAN



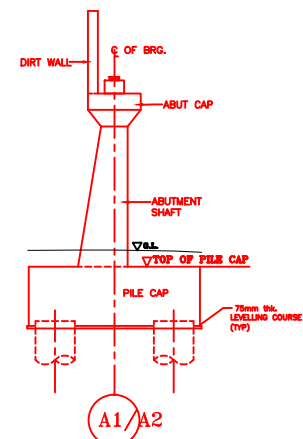
SECTION A-A

INDICATIVE DRAWING

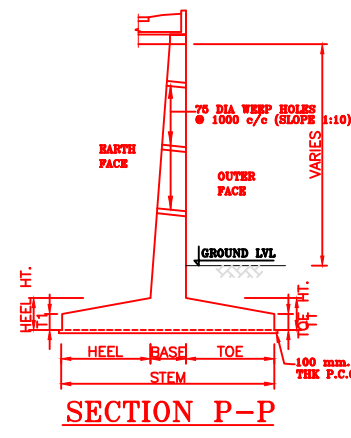
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MOZ 37 SPAN (1X12.2m) AT CH. 17790				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ37	R0



SECTIONAL ELEVATION



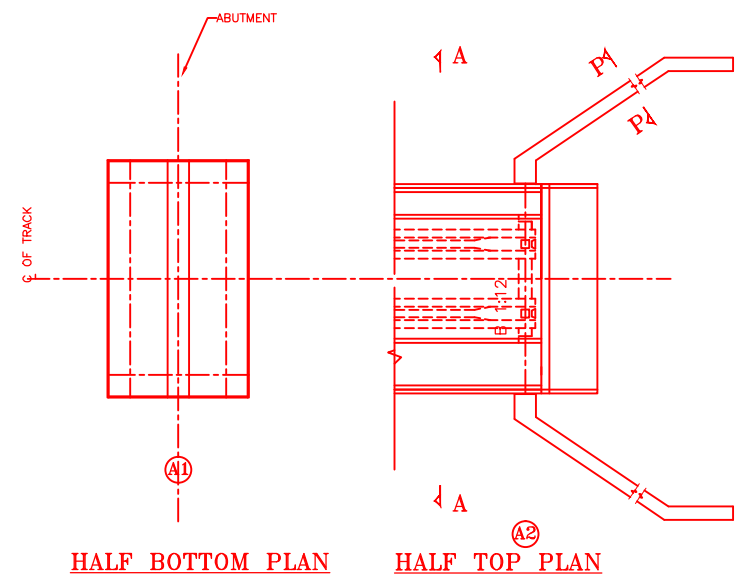
DETAIL OF ABUTMENT



SECTION P-P

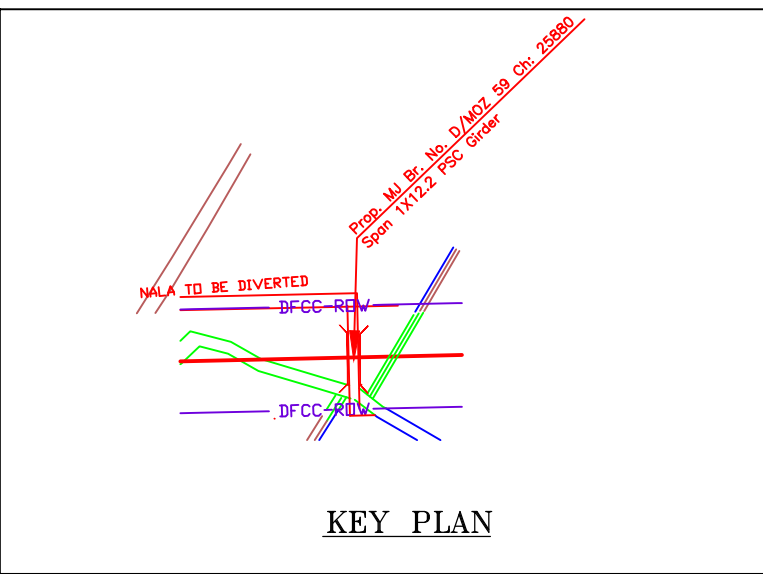
NOTES:-

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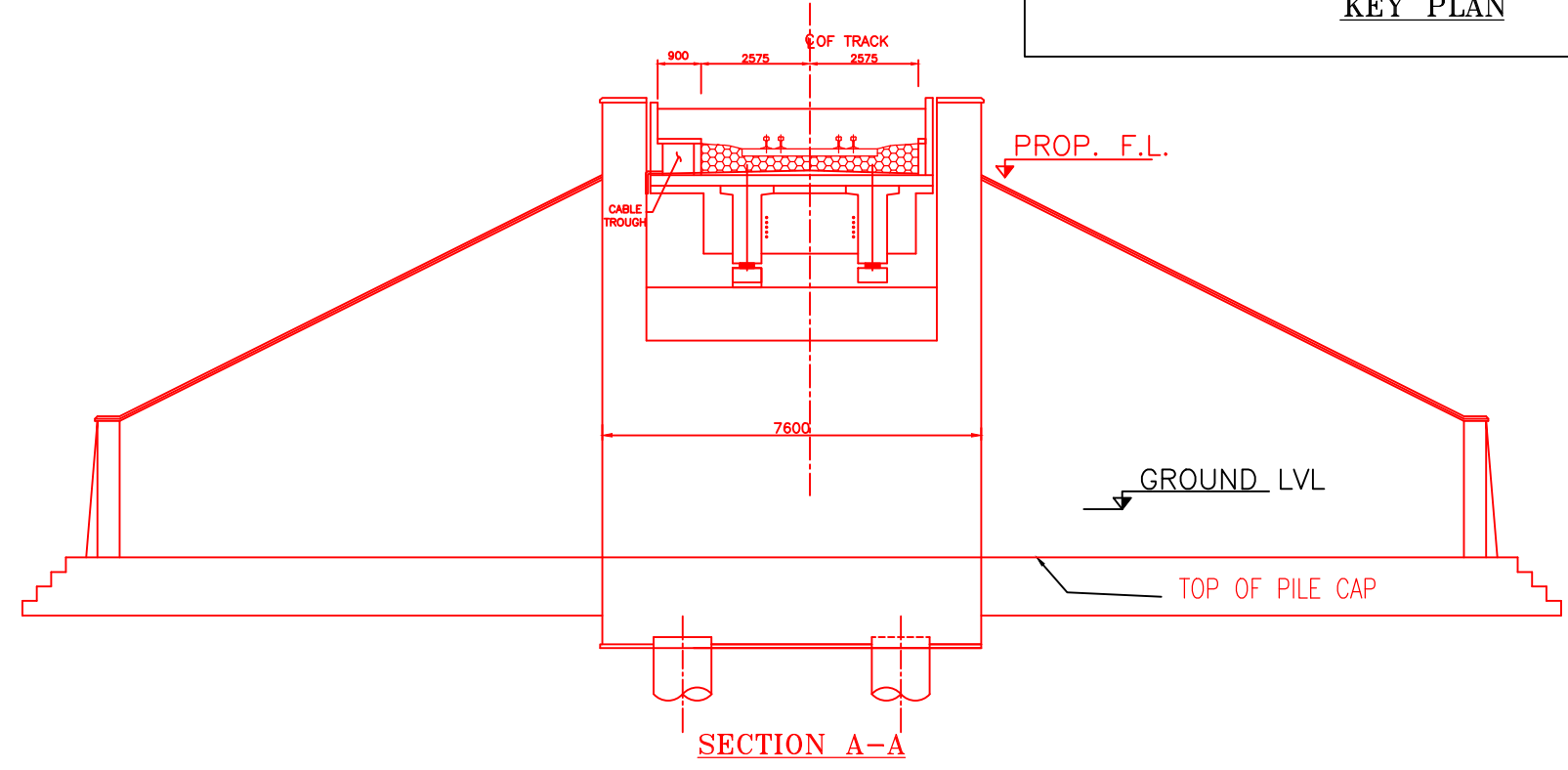


HALF BOTTOM PLAN

HALF TOP PLAN



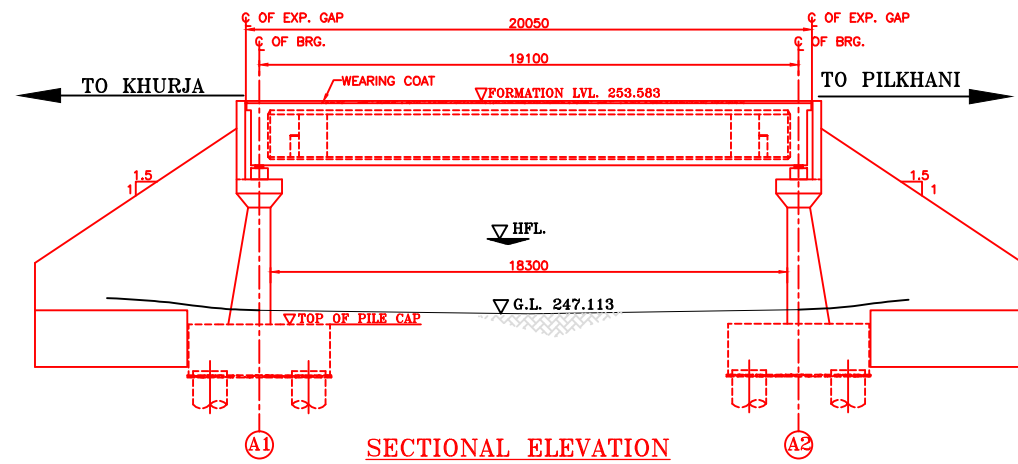
KEY PLAN



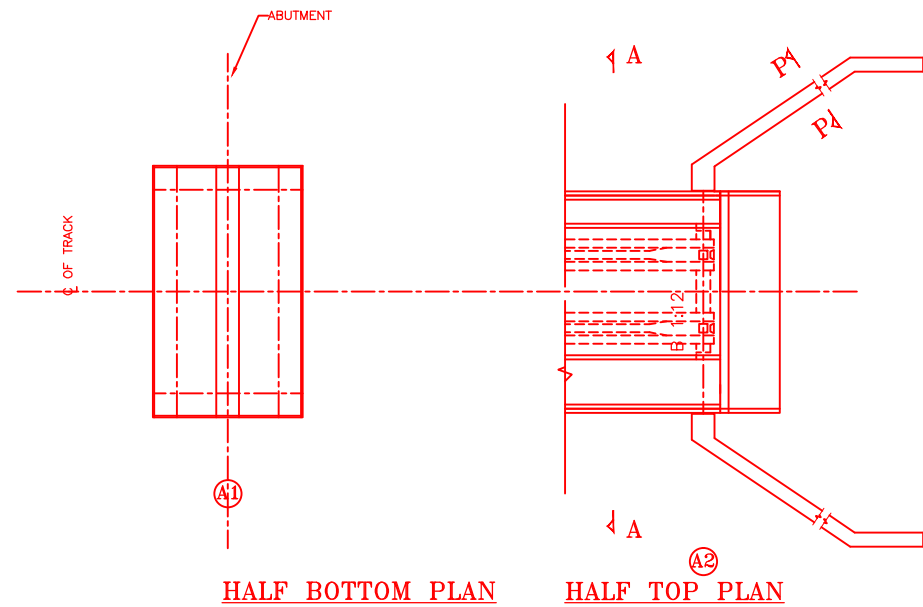
SECTION A-A

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 59 SPAN (1X12.2m) AT CH. 25880				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ59	R0

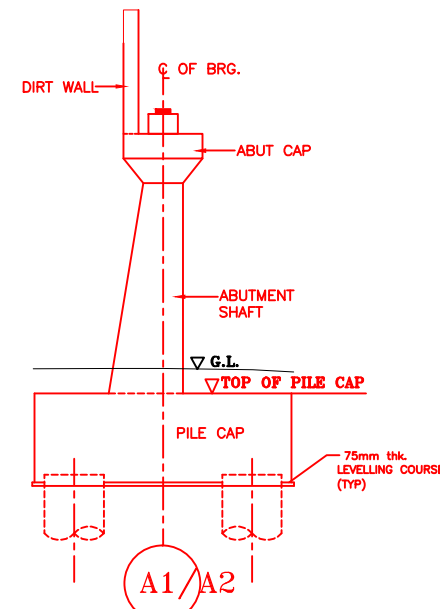


SECTIONAL ELEVATION

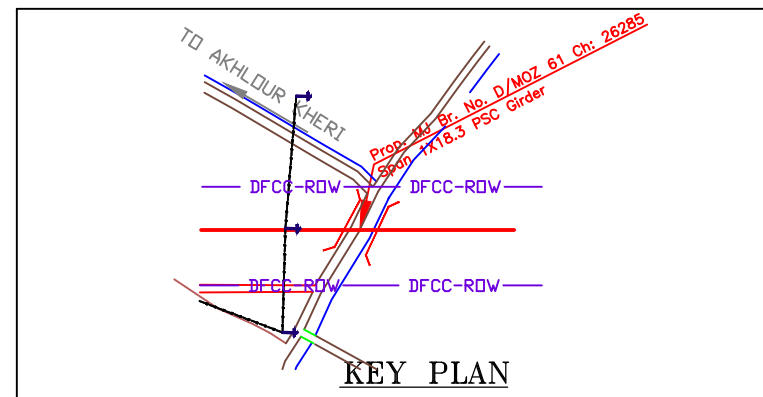


HALF BOTTOM PLAN

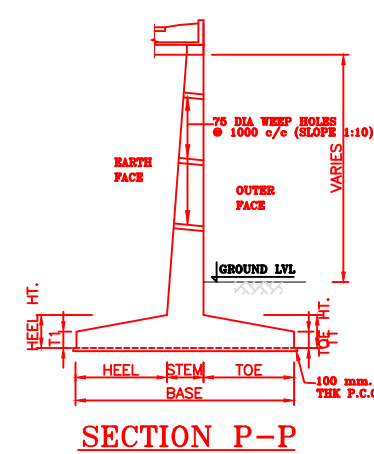
HALF TOP PLAN



DETAIL OF ABUTMENT



KEY PLAN





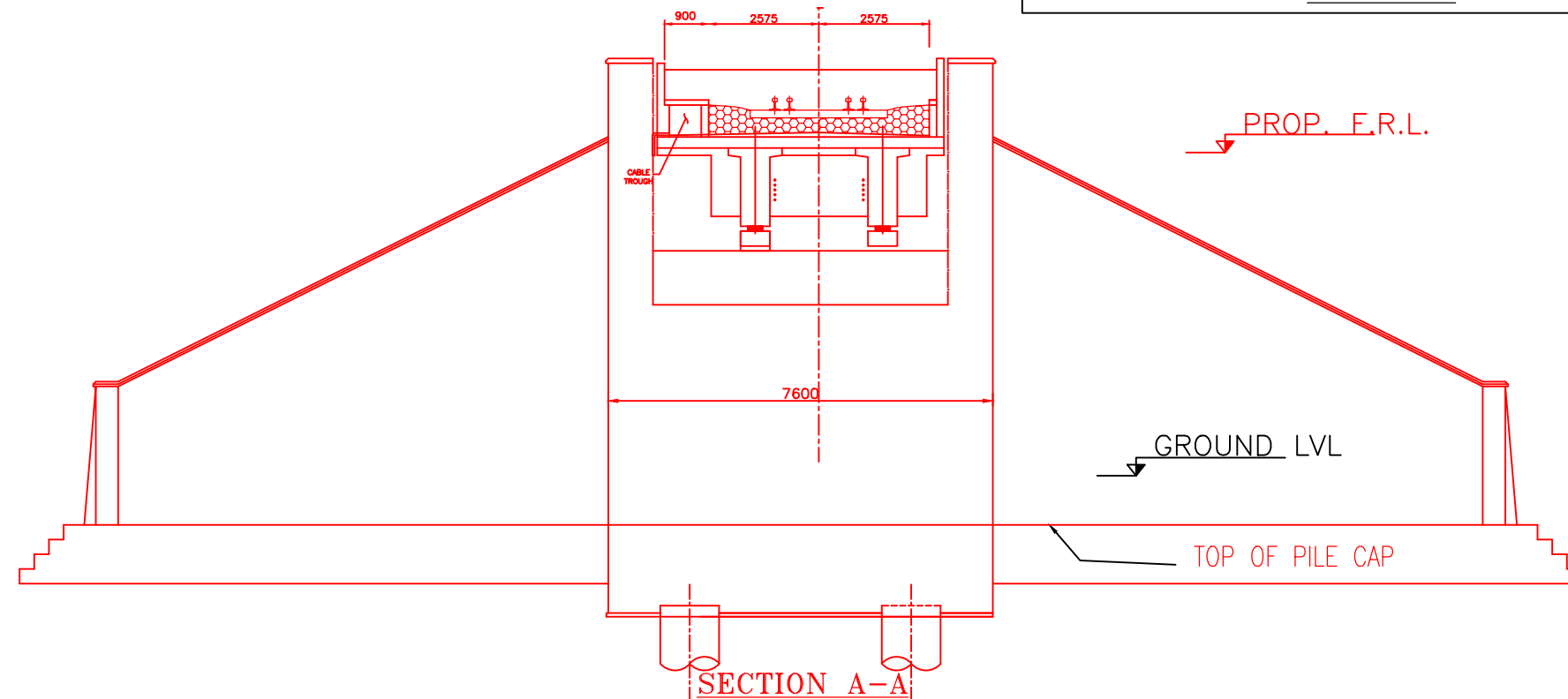
SECTION P-P

NOTES:-

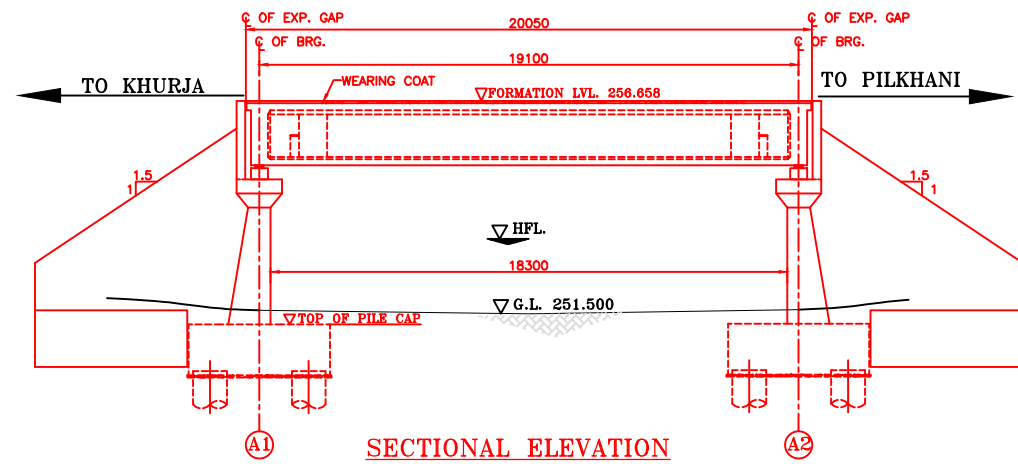
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

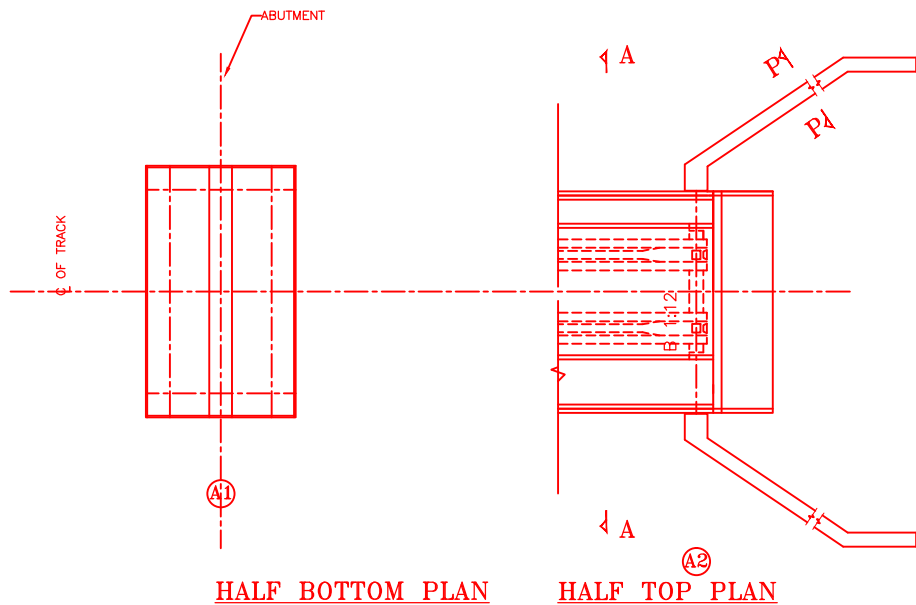
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.						
GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MOZ 61 SPAN (1X18.3m) AT CH. 26285					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ61	R0



SECTION A-A

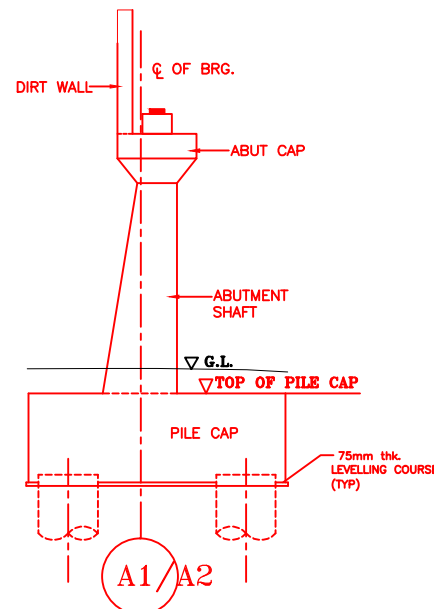


SECTIONAL ELEVATION

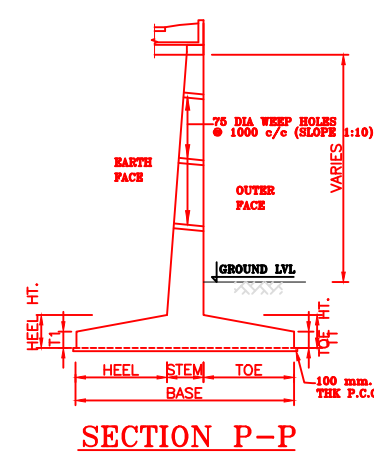


HALF BOTTOM PLAN

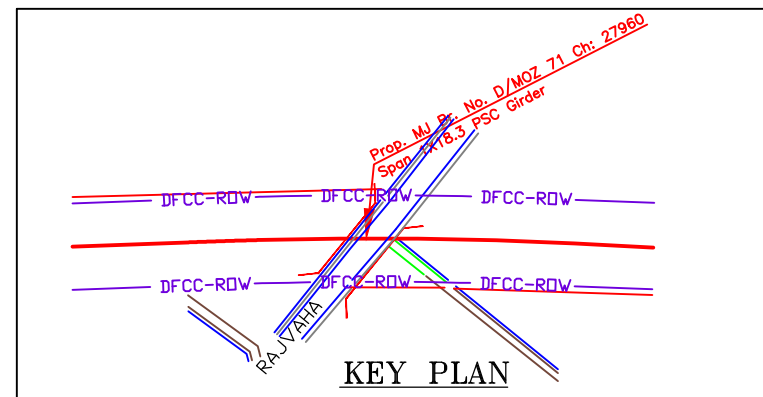
HALF TOP PLAN



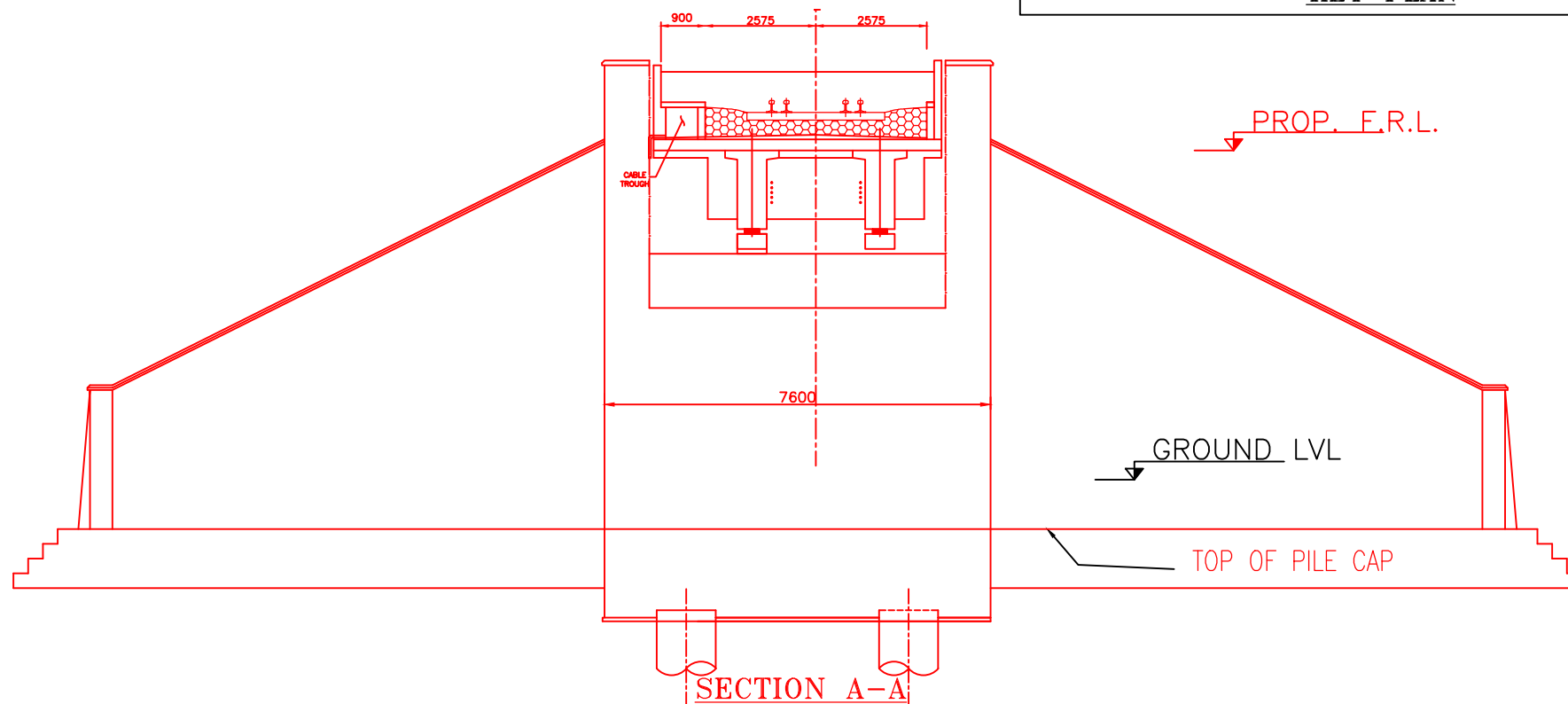
DETAIL OF ABUTMENT



SECTION P-P



KEY PLAN



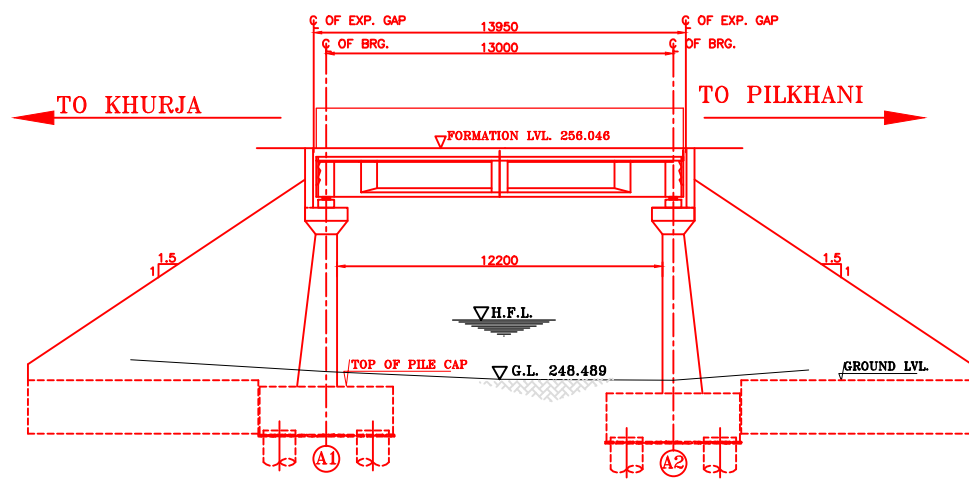
SECTION A-A

NOTES:-

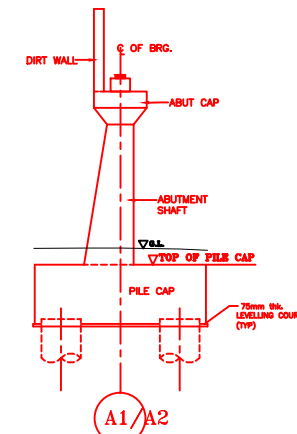
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
- a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
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- ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
- SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
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- WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
- STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
- WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
- CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
- DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
- THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

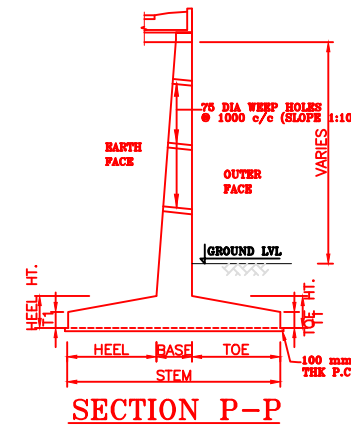
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GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MOZ 71 SPAN (1X18.3m) AT CH. 27960					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ71	R0



SECTIONAL ELEVATION



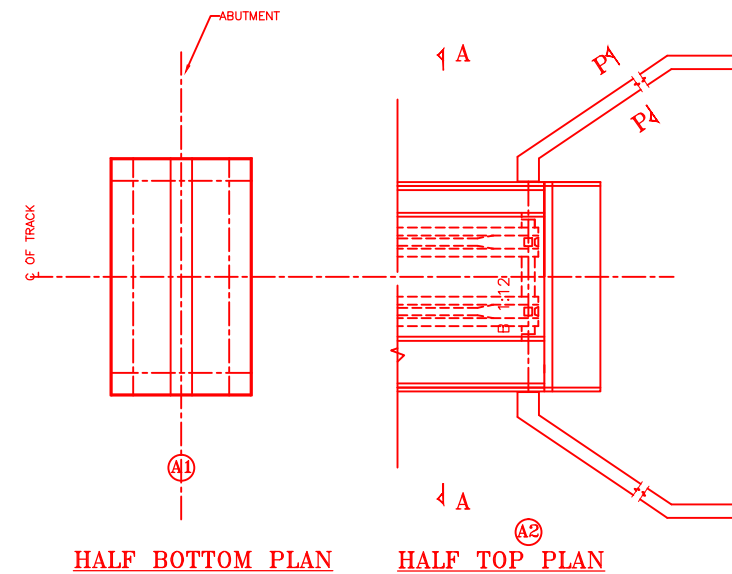
DETAIL OF ABUTMENT



SECTION P-P

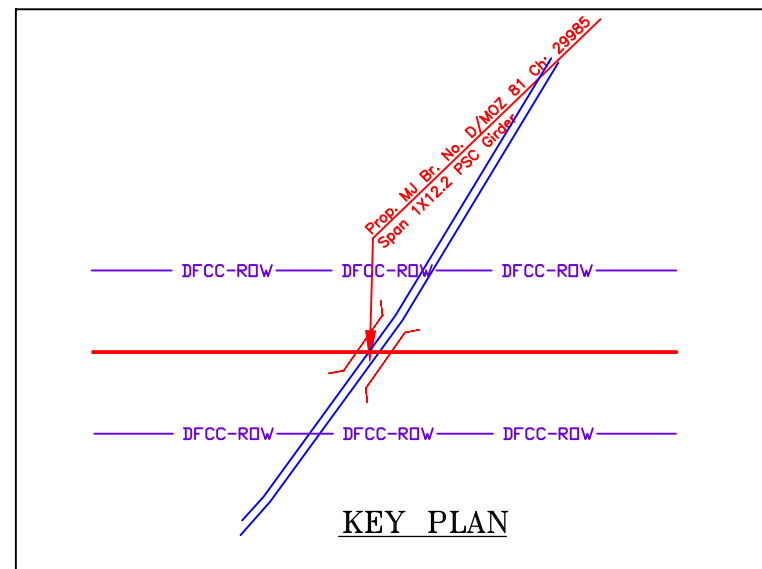
NOTES:-

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- a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
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- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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- TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
- MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
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- WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
- STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
- WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
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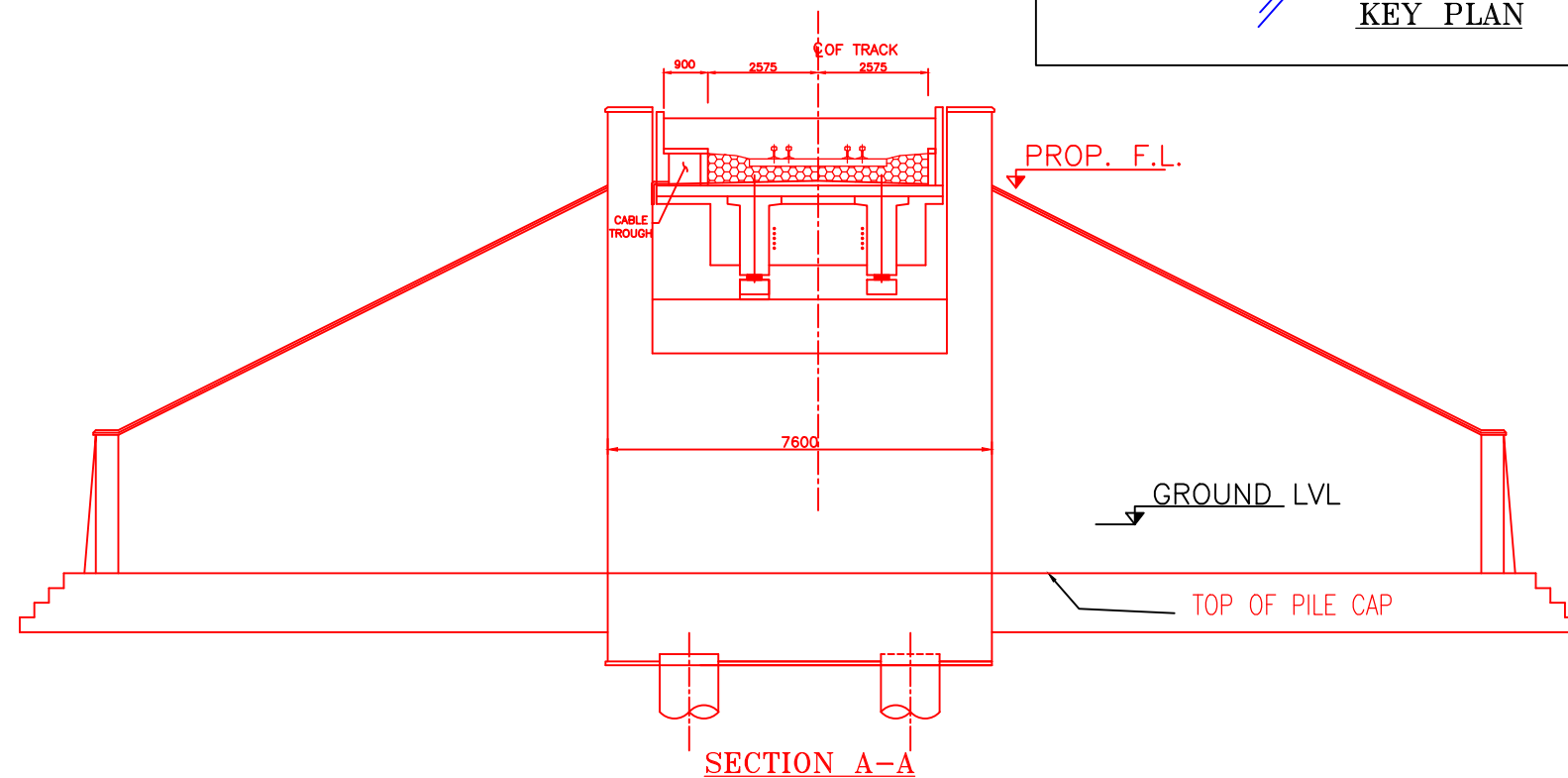


HALF BOTTOM PLAN

HALF TOP PLAN





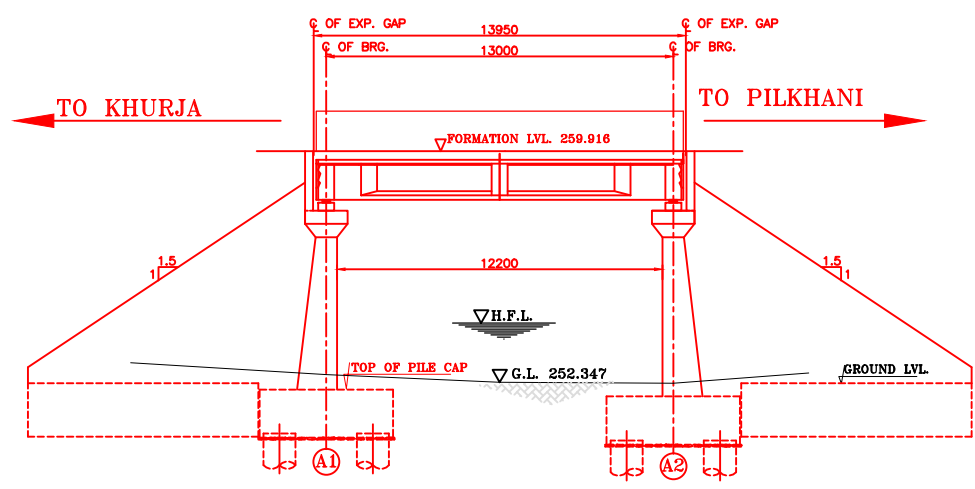
KEY PLAN



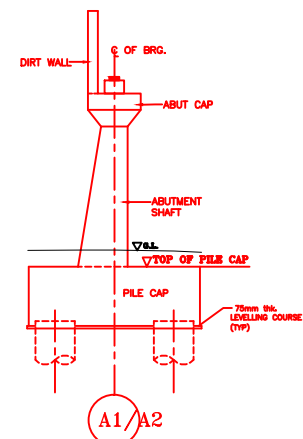
SECTION A-A

INDICATIVE DRAWING

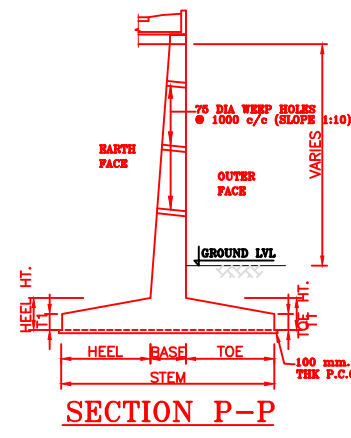
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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MOZ 81 SPAN (1X12.2m) AT CH. 29985					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ81	R0



SECTIONAL ELEVATION



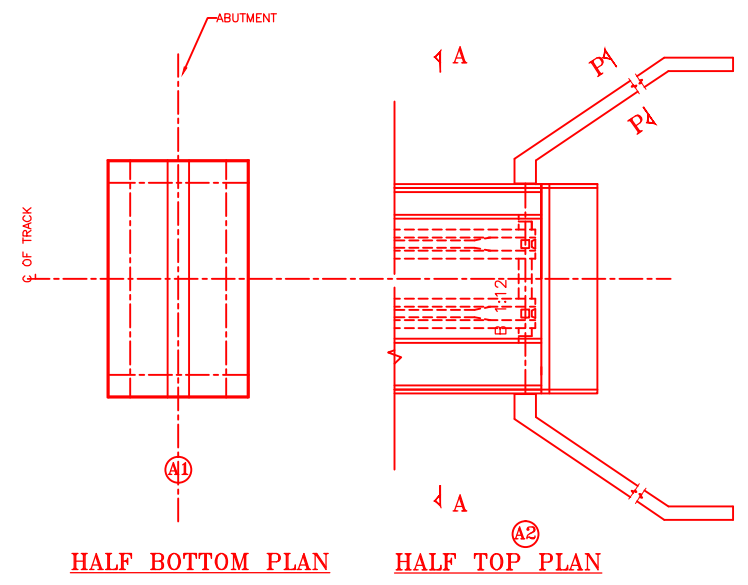
DETAIL OF ABUTMENT



SECTION P-P

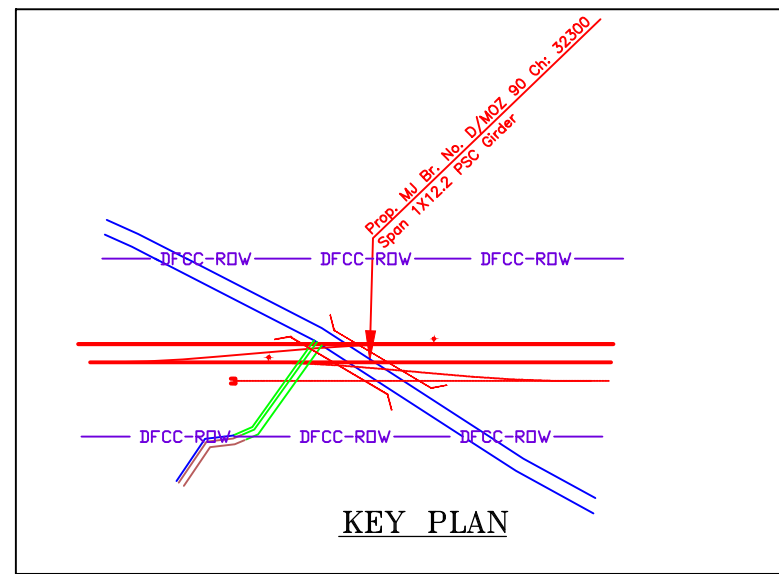
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
3. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
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8. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
10. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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15. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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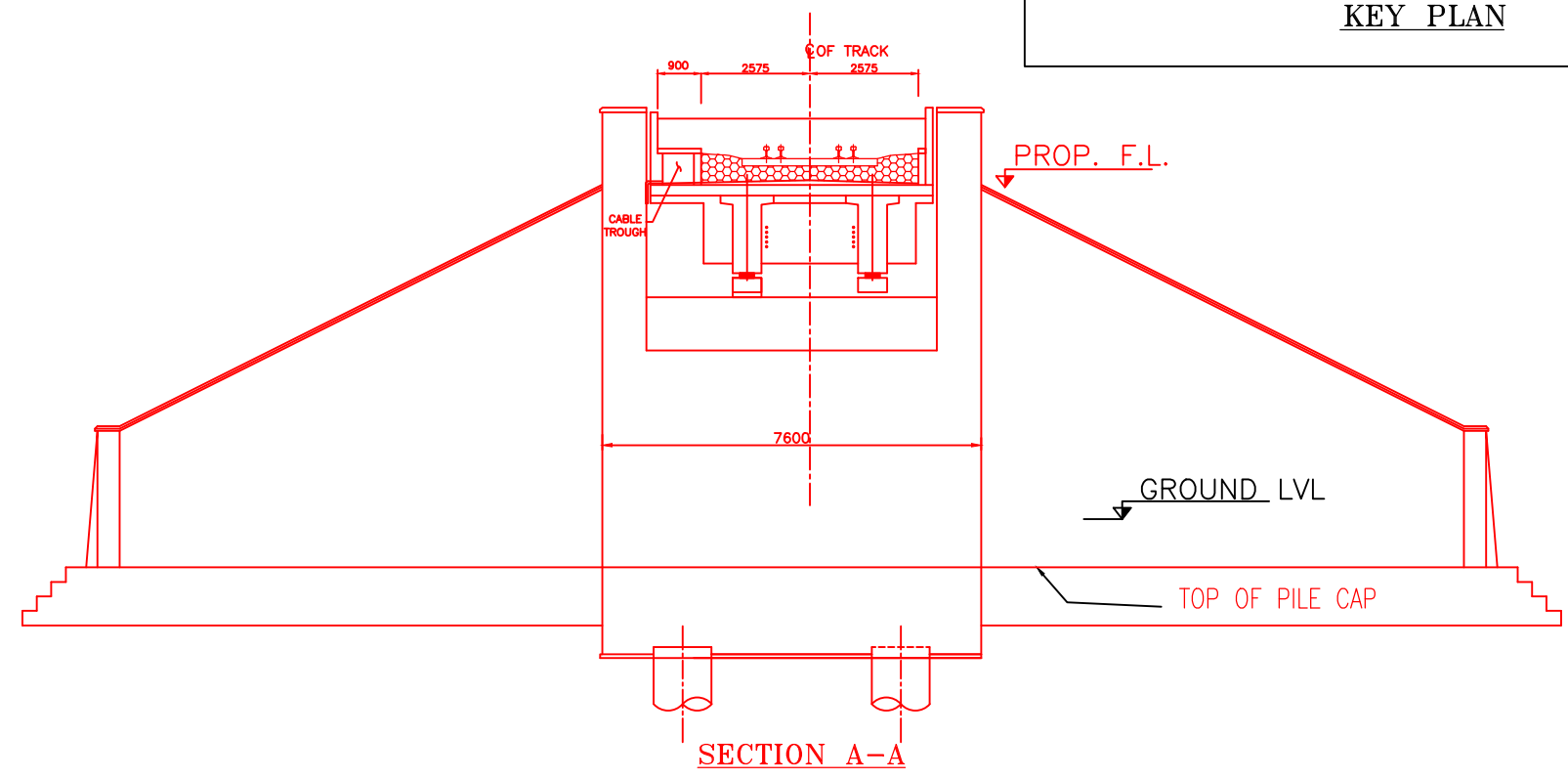


HALF BOTTOM PLAN

HALF TOP PLAN



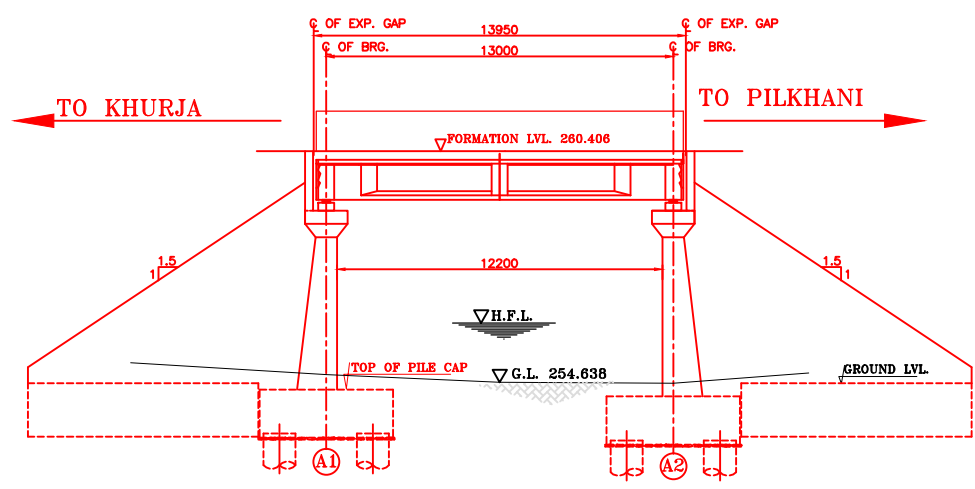
KEY PLAN



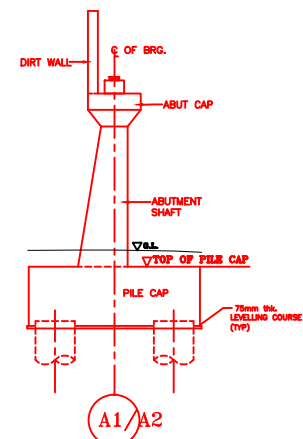
SECTION A-A

INDICATIVE DRAWING

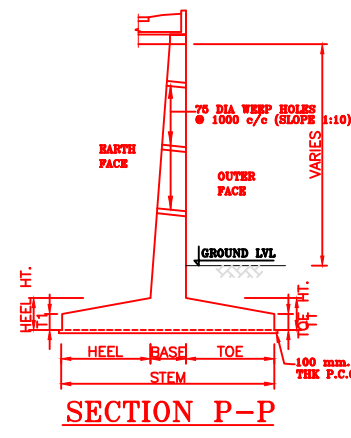
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 90 SPAN (1X12.2m) AT CH. 32300				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ90	R0



SECTIONAL ELEVATION



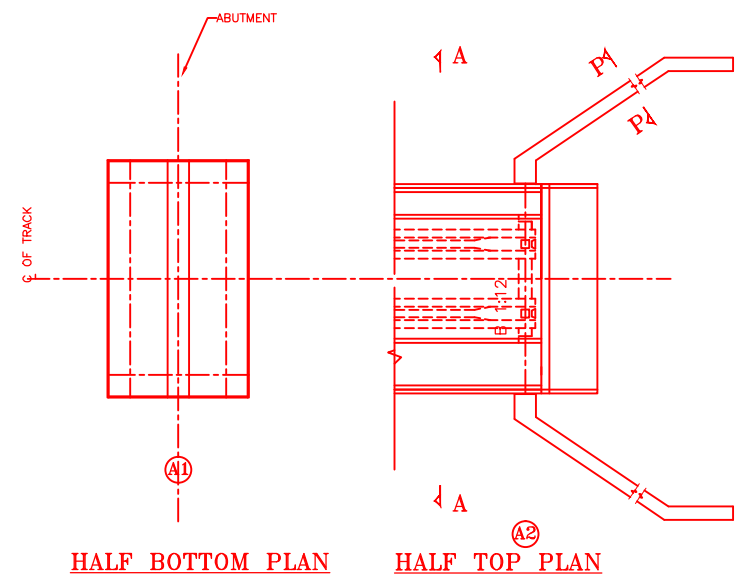
DETAIL OF ABUTMENT



SECTION P-P

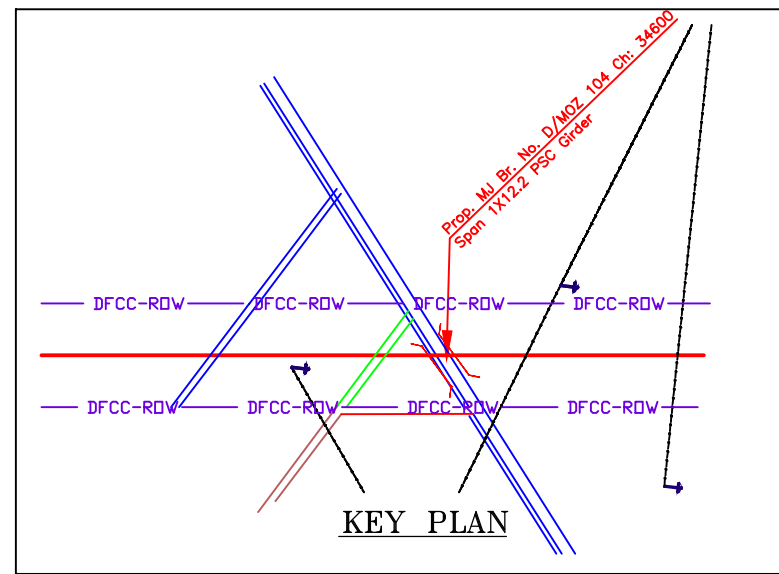
NOTES:-

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16. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
17. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
18. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
19. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
20. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

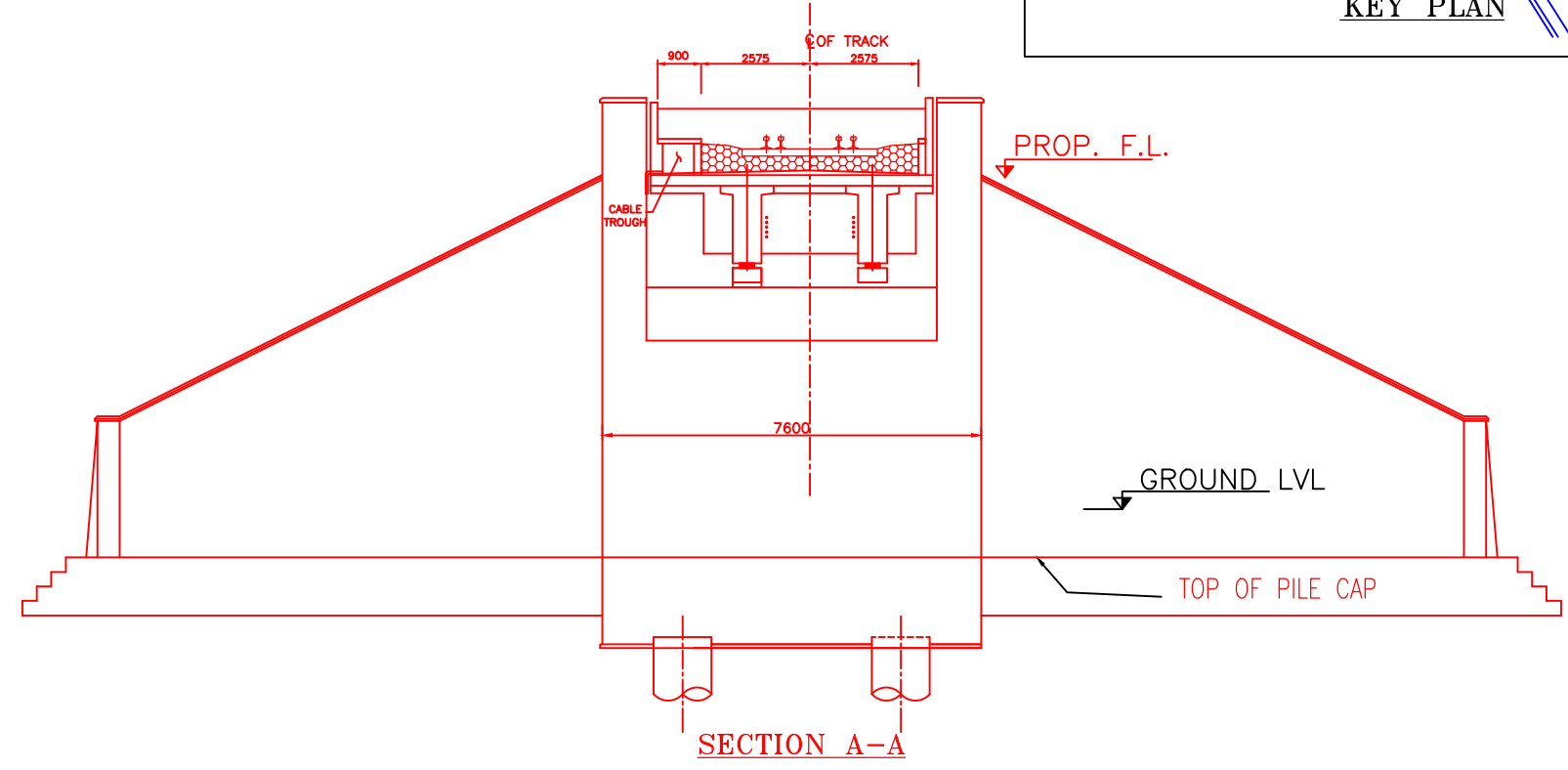


HALF BOTTOM PLAN

HALF TOP PLAN




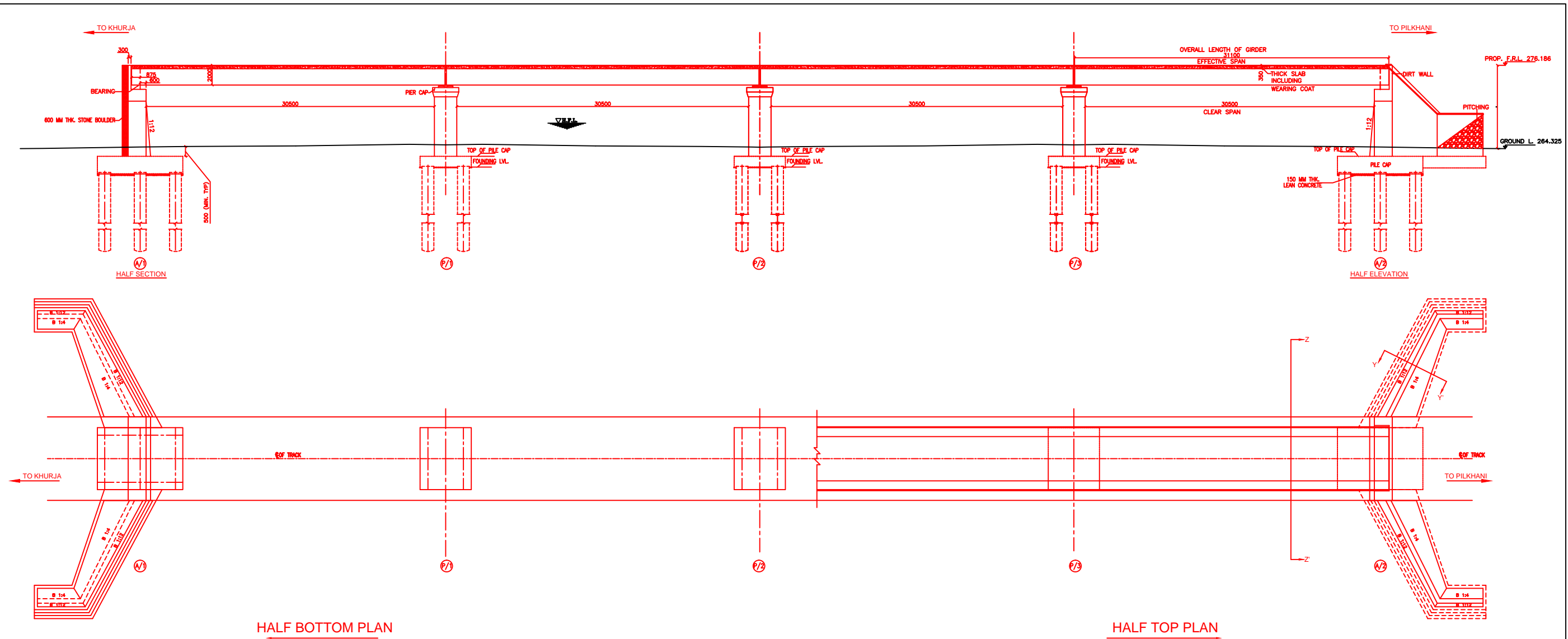
KEY PLAN



SECTION A-A

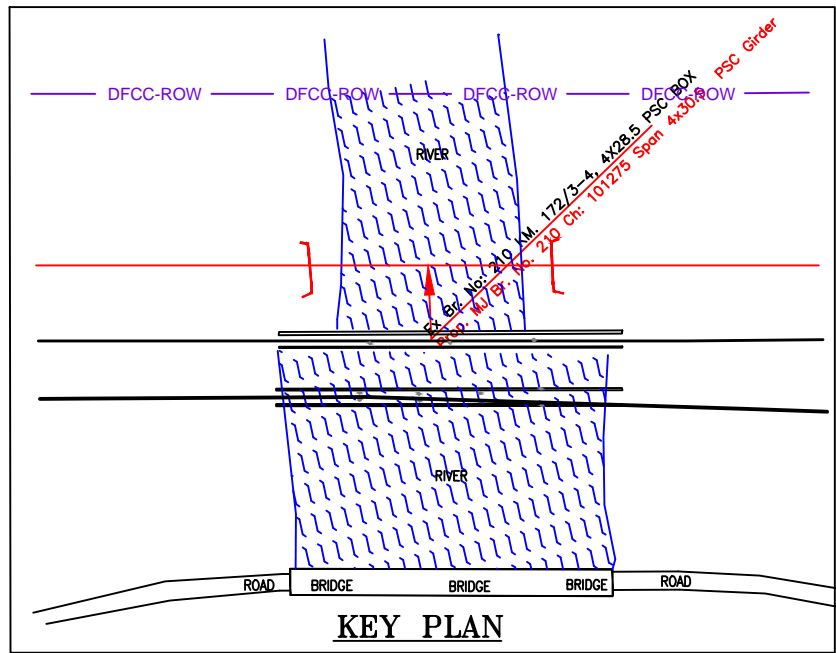
INDICATIVE DRAWING

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GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MOZ 104 SPAN (1X12.2m) AT CH. 34600					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ104	R0



HALF BOTTOM PLAN

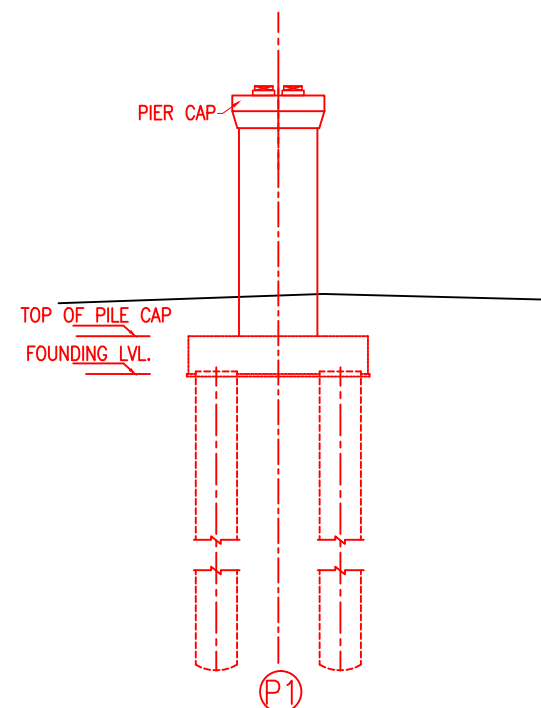
HALF TOP PLAN



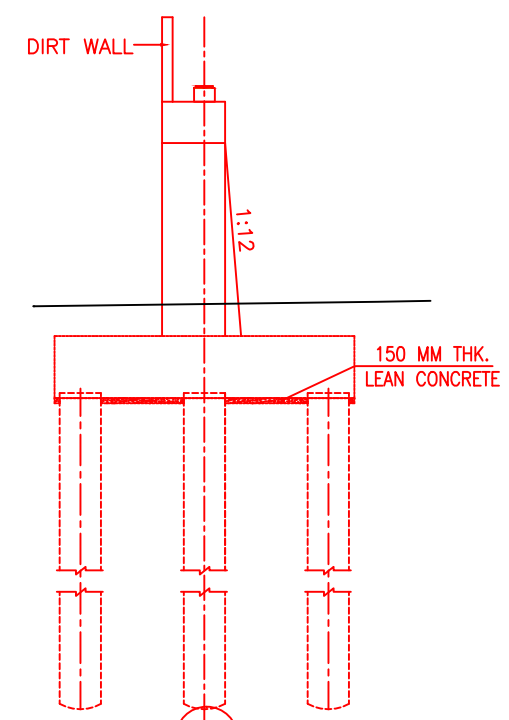
KEY PLAN

INDICATIVE DRAWING

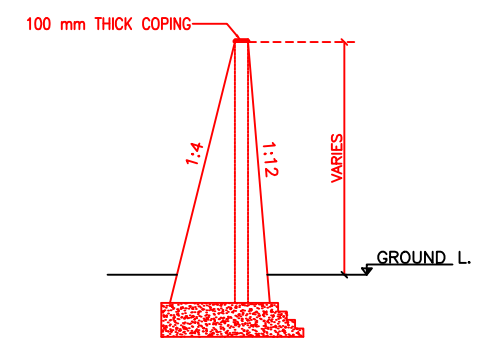
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GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. 210 SPAN (4X30.5m) AT CH. 101275					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/210 SHEET 1 OF 2	R0



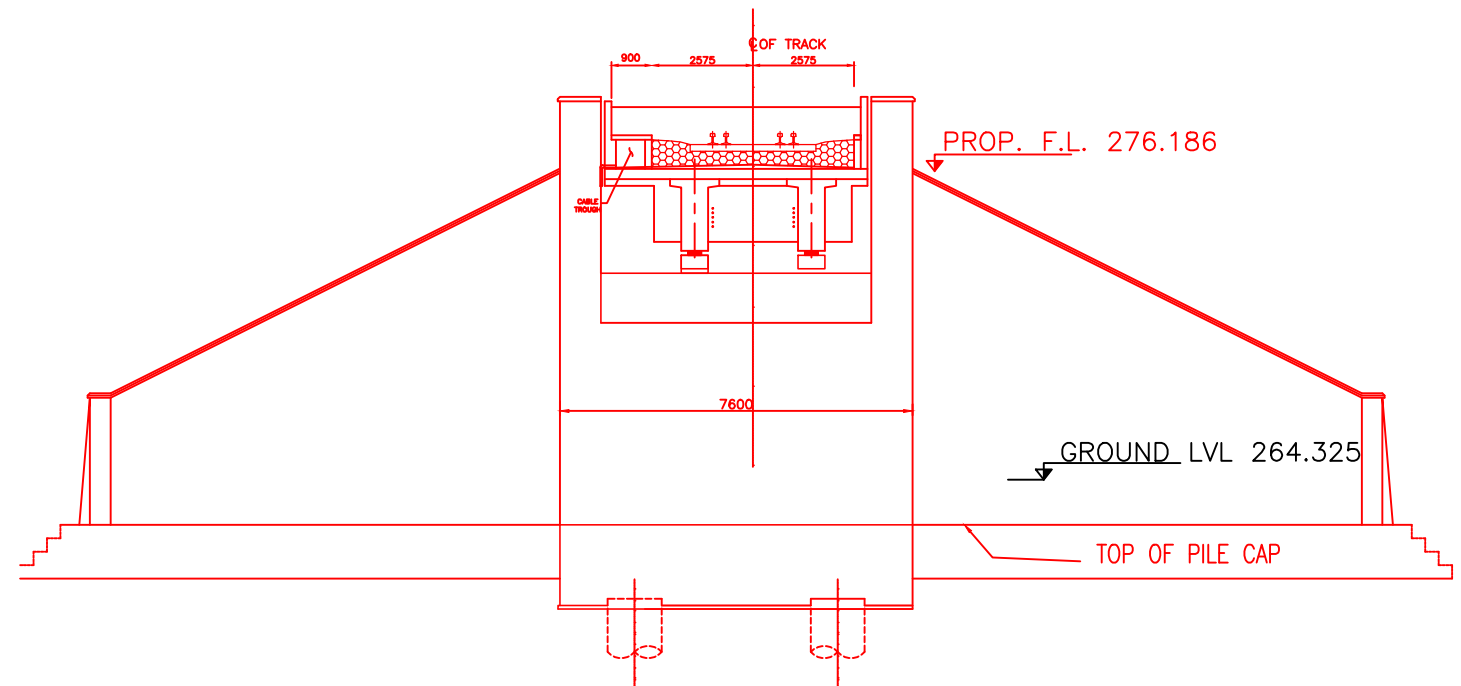
DETAIL OF PIER



DETAIL OF ABUTMENT



SECTION OF WING WALL AT Y-Y




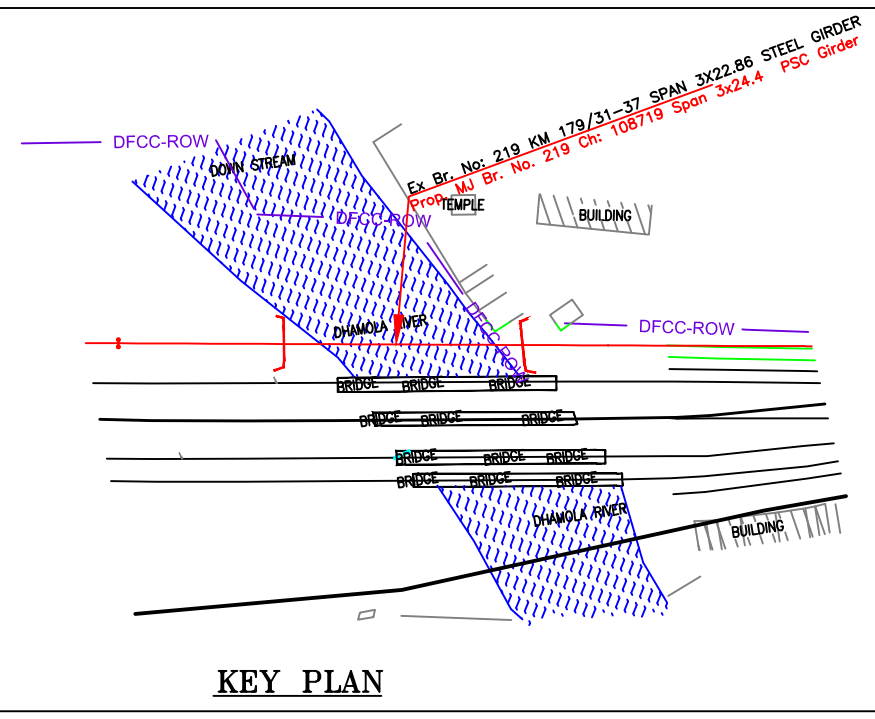
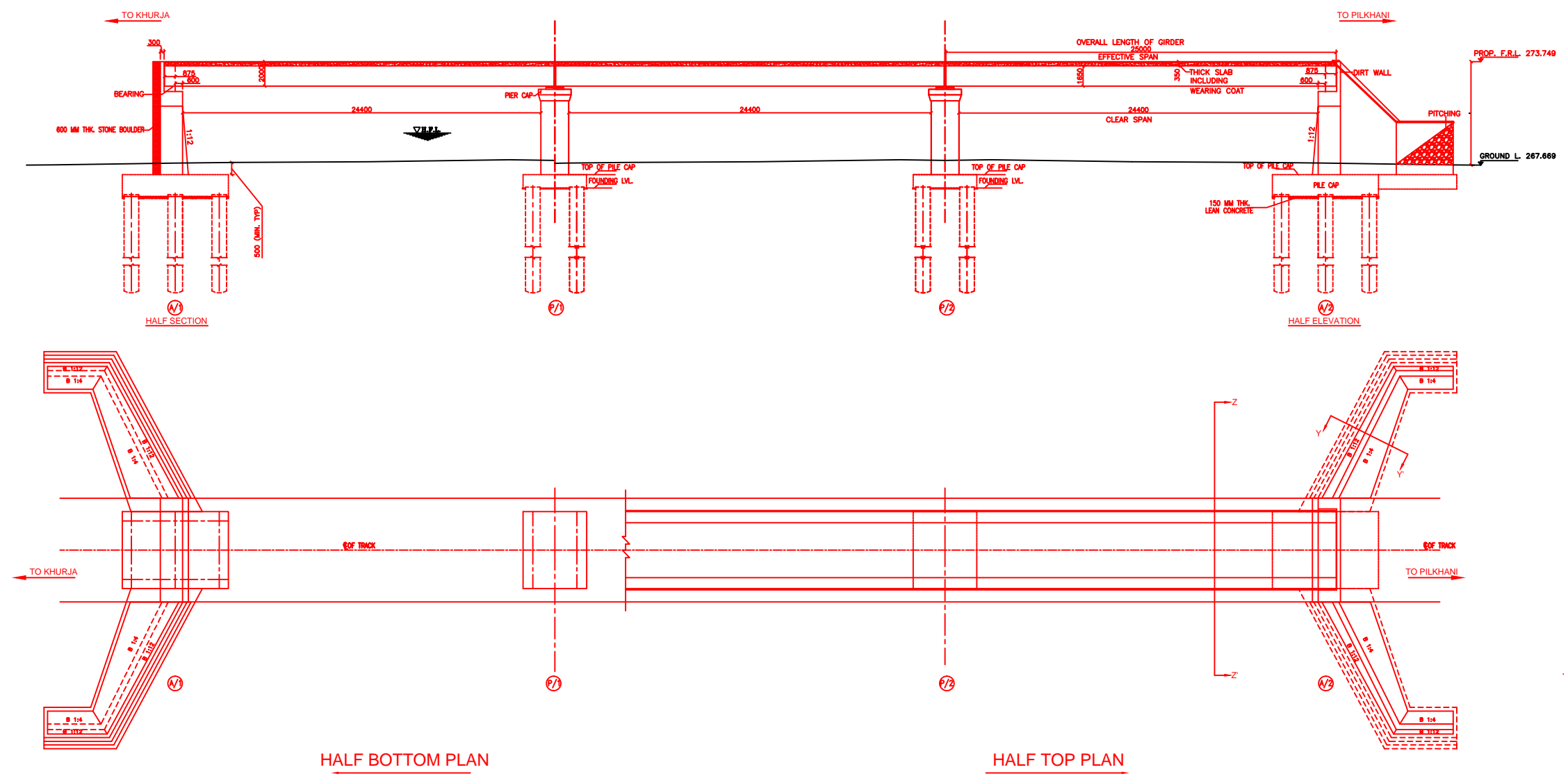
SECTION Z-Z

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.


INDICATIVE DRAWING

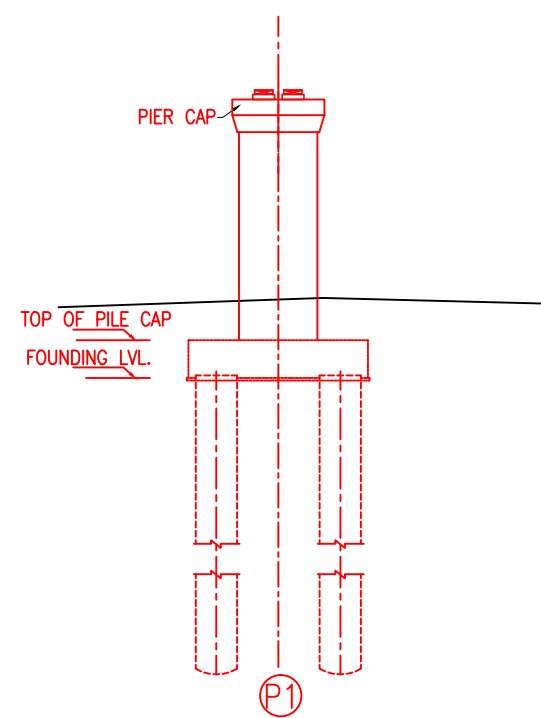
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GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. 210 SPAN (4X30.5m) AT CH. 101275				
		TITLE GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/210 SHEET 2 OF 2	R0



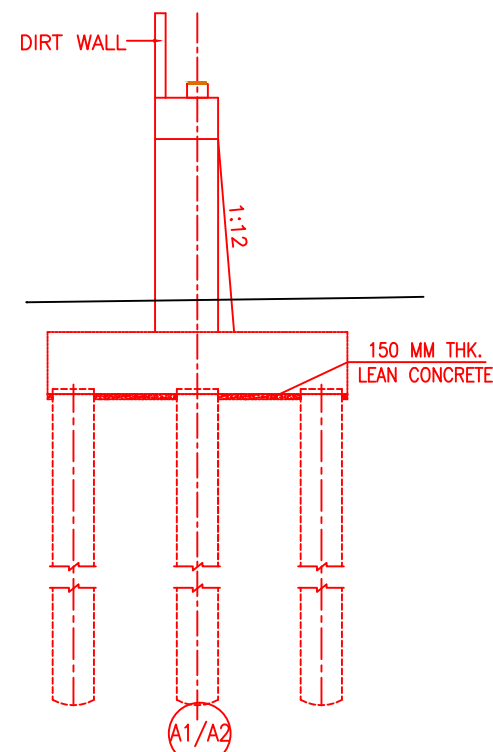
KEY PLAN

INDICATIVE DRAWING

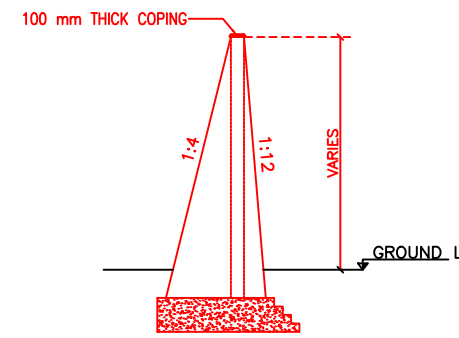
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GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA																		
EASTERN CORRIDOR		PROJECT KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)																		
CONTRACT PACKAGE - 303		STRUCTURE PROPOSED MAJOR BR. NO. 219 SPAN (3X24.4m) AT CH. 108719																		
TITLE GENERAL ARRANGEMENT DRAWING		<table border="1"> <tr> <td>SCALE</td> <td>DATE</td> <td>DRAWN BY</td> <td>CHECKED BY</td> <td>APPROVED BY</td> <td>DRG. NO.</td> <td>REV.</td> </tr> <tr> <td>NTS</td> <td>JUNE 2016</td> <td></td> <td></td> <td></td> <td>AECOM/303/MJR/219 SHEET 1 OF 2</td> <td>R0</td> </tr> </table>					SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.	NTS	JUNE 2016				AECOM/303/MJR/219 SHEET 1 OF 2	R0
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.														
NTS	JUNE 2016				AECOM/303/MJR/219 SHEET 1 OF 2	R0														



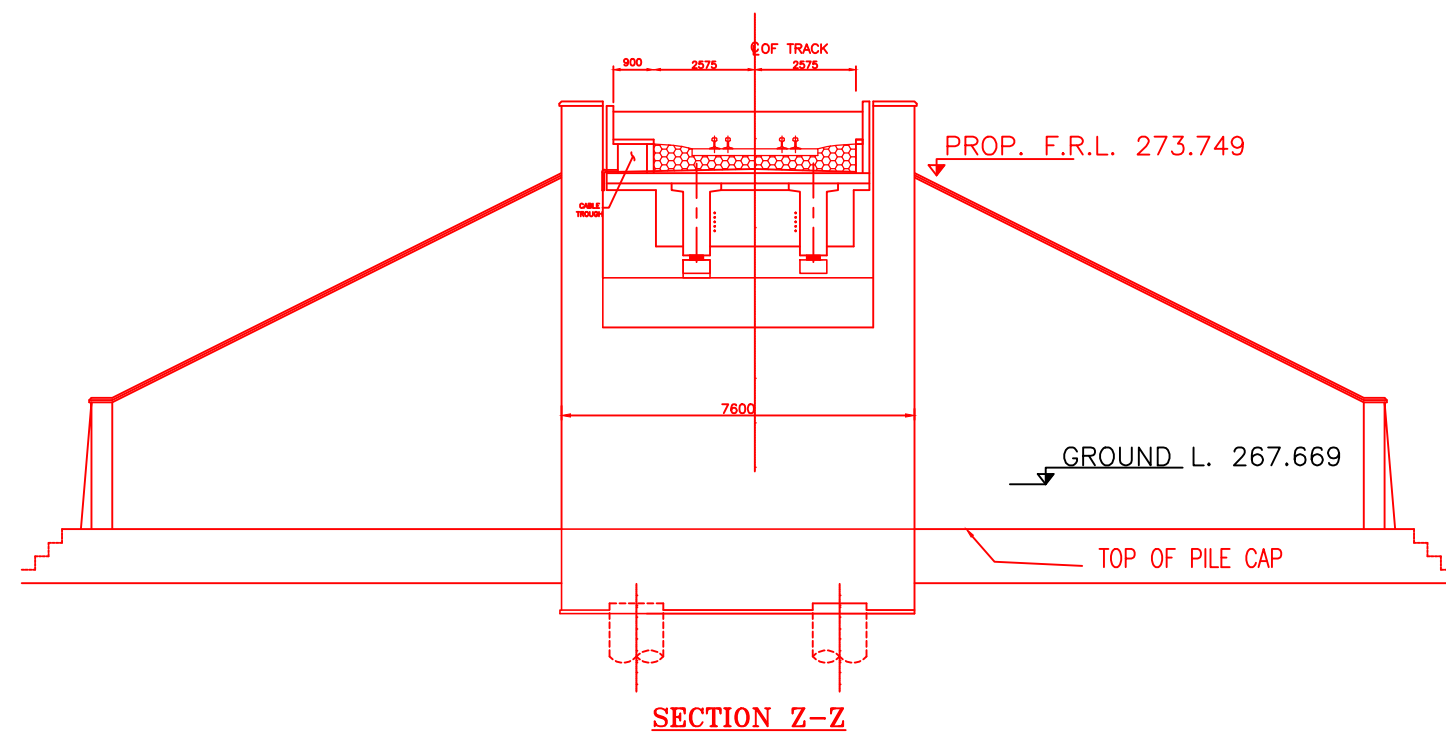
DETAIL OF PIER



DETAIL OF ABUTMENT



SECTION OF WING WALL AT Y-Y



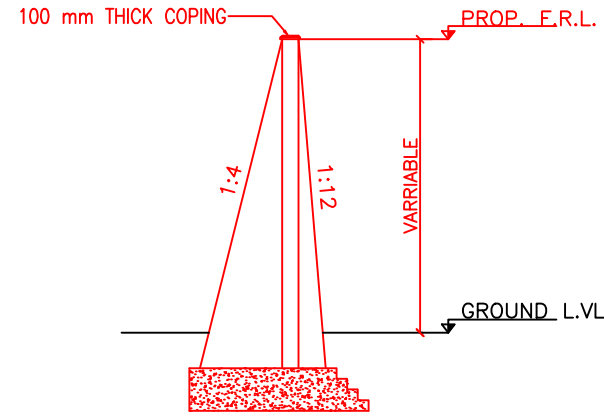
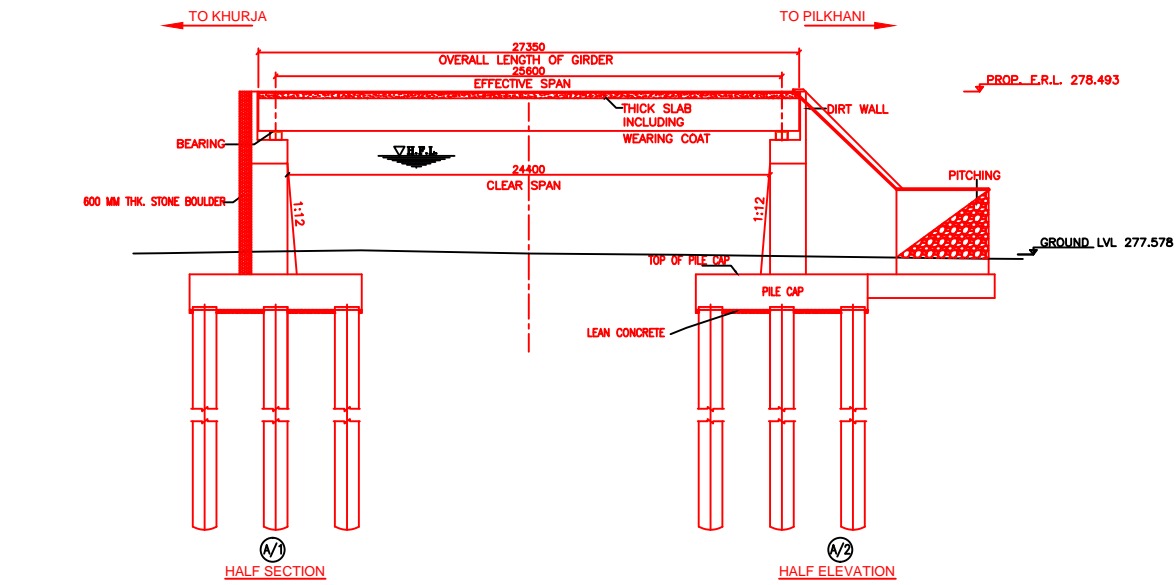
SECTION Z-Z

NOTES:-

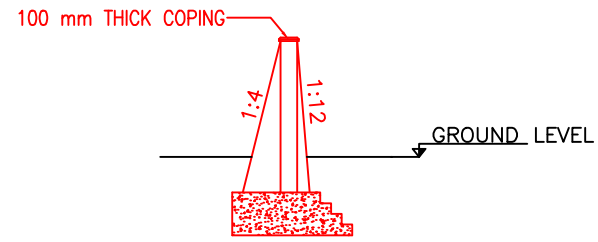
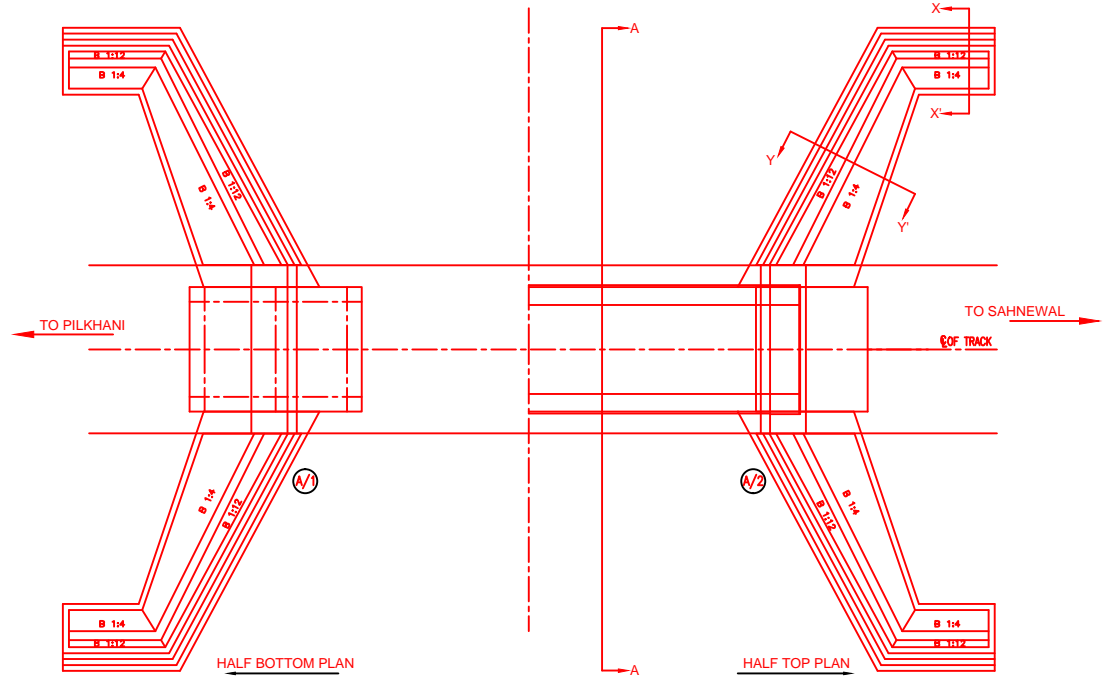
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
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13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

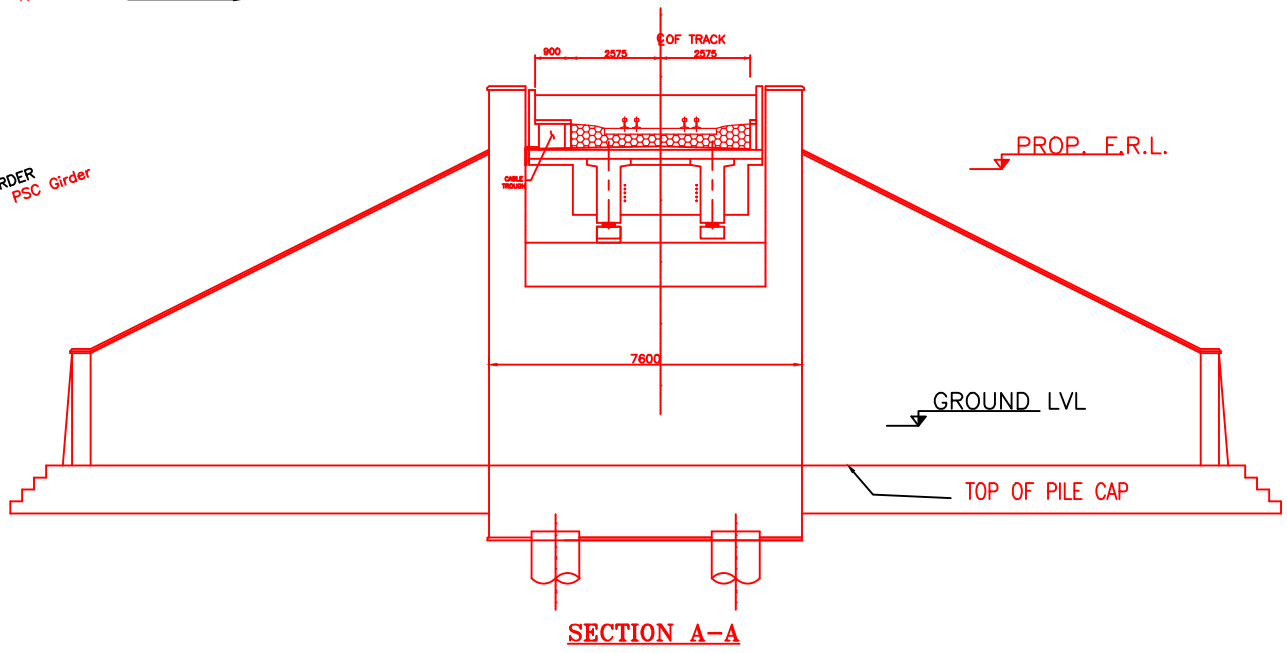
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. 219 SPAN (3X24.4m) AT CH. 108719				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/219 SHEET 2 OF 2	R0



SECTION OF WING WALL AT Y-Y



SECTION OF RETAINING WALL X-X



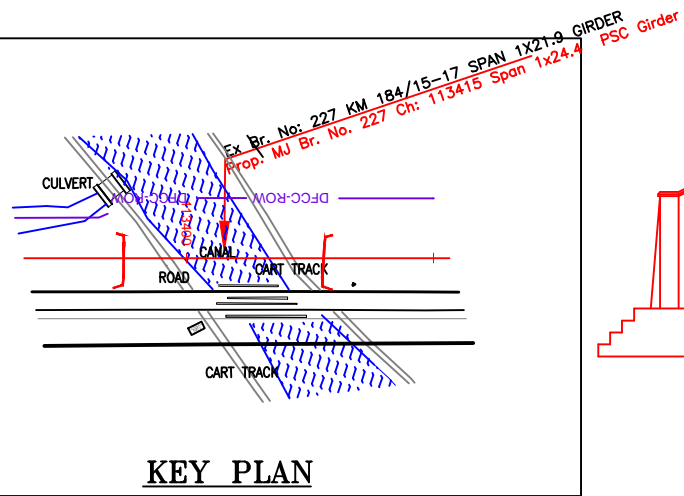
SECTION A-A

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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INDICATIVE DRAWING

 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.						
GENERAL CONSULTANT	AECOM Asia Co. Ltd.  9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. 227 SPAN (1X24.4m) AT CH. 113415					
TITLE GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR/227	R0



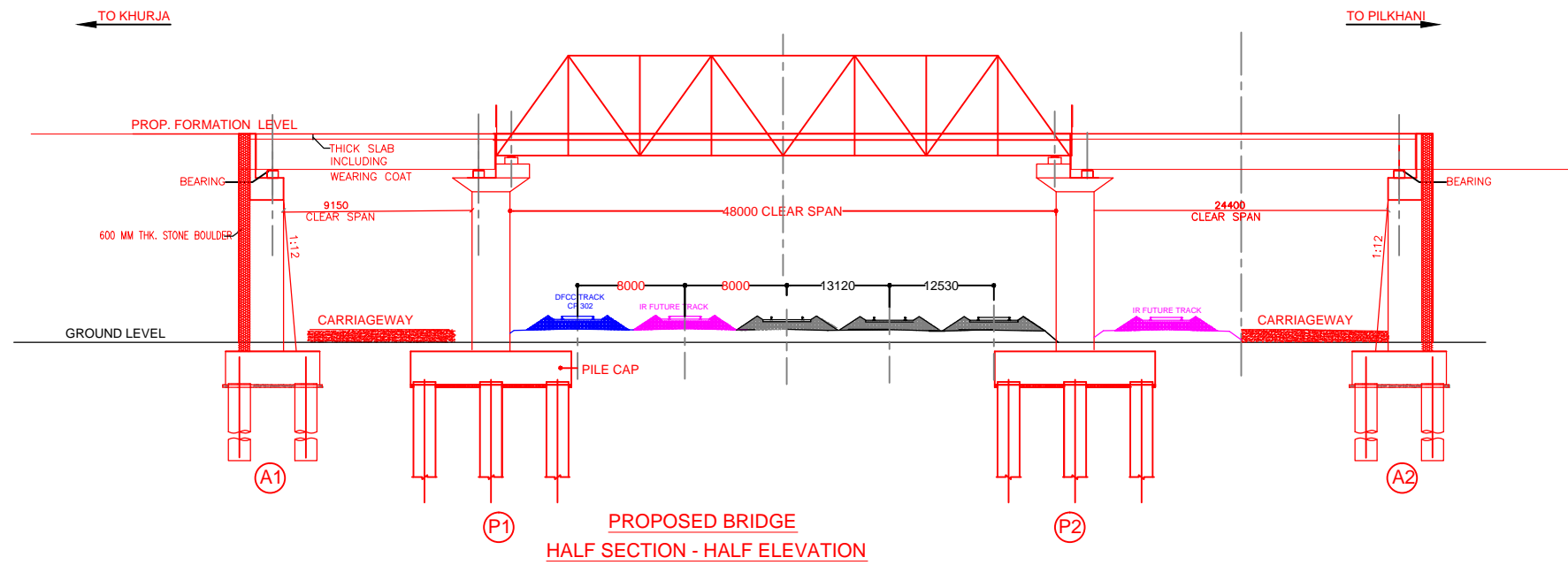
KEY PLAN

Contract Package: 303

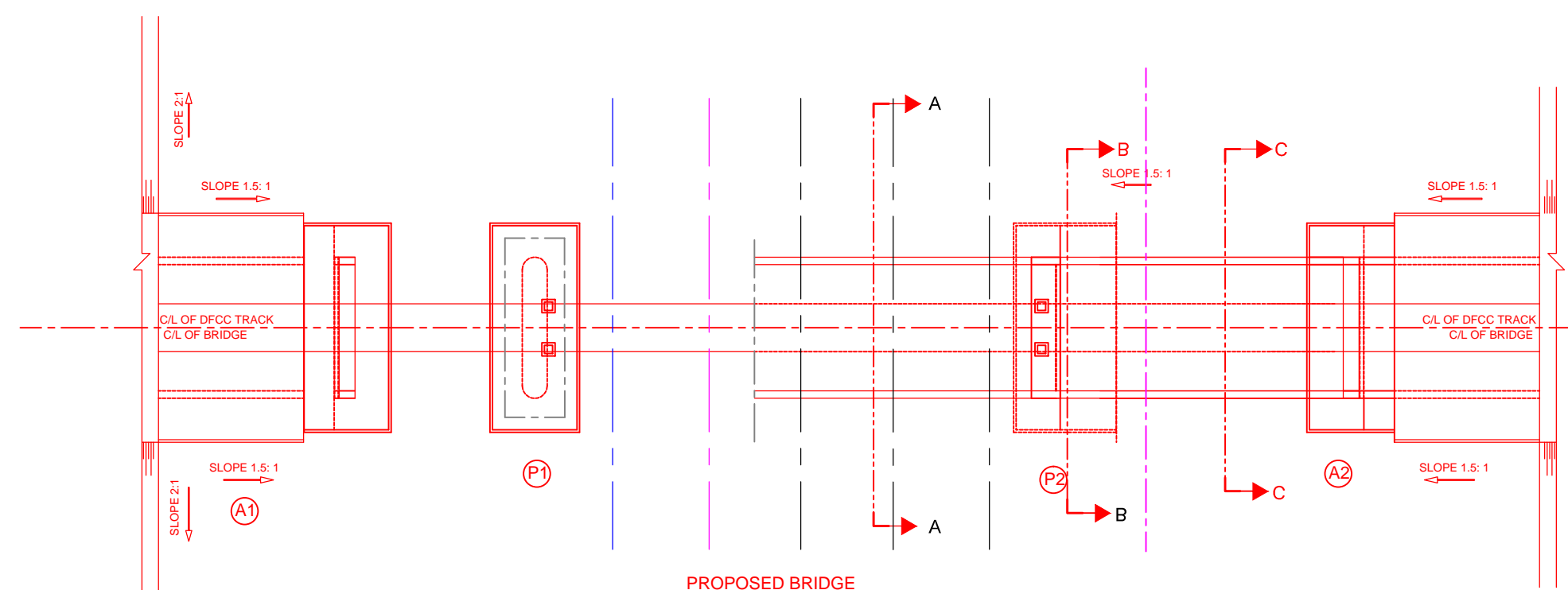
KHURJA TO PILKHANI

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

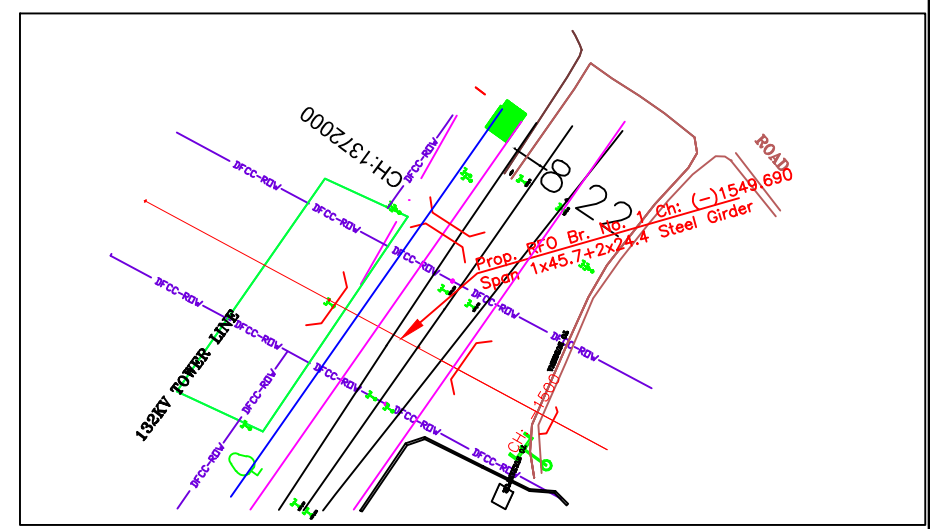
GAD OF RFOs



PROPOSED BRIDGE
HALF SECTION - HALF ELEVATION



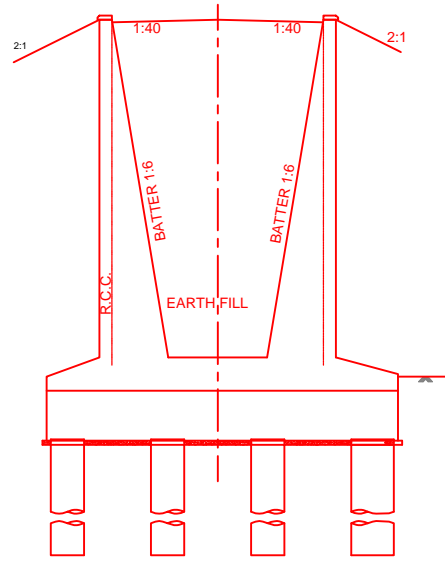
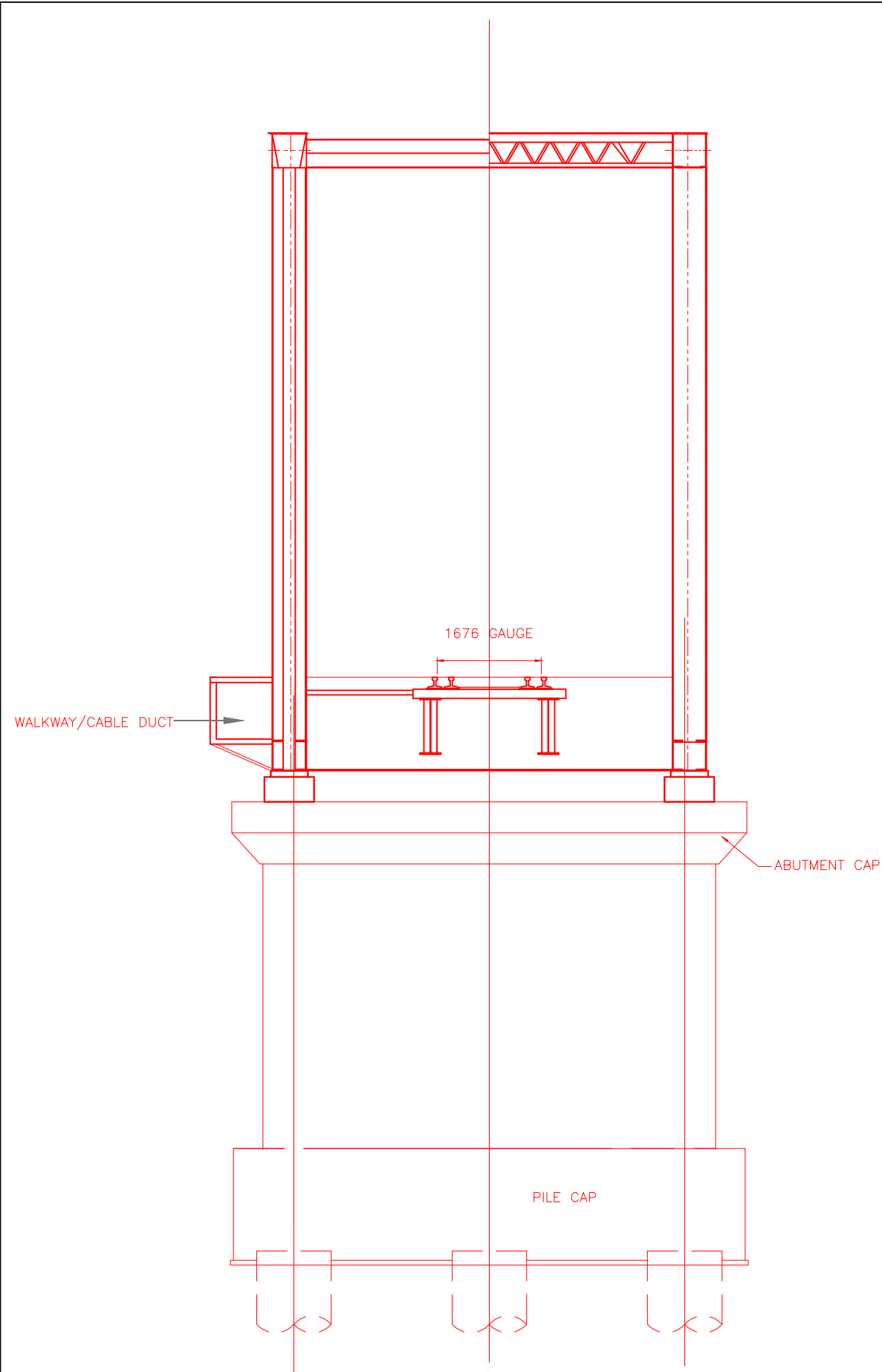
PROPOSED BRIDGE
HALF BOTTOM PLAN - HALF TOP PLAN



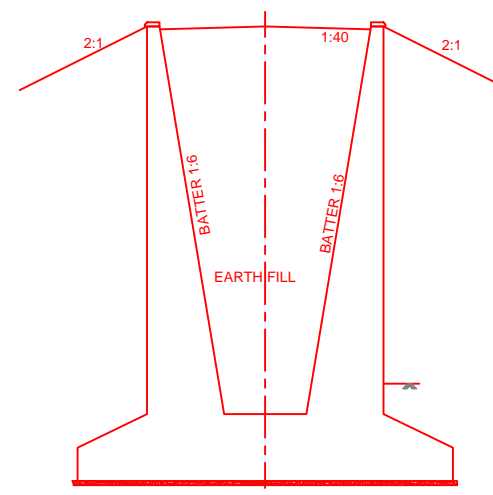
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - RELEVANT IRC CODES OF PSC.
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 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - INSPECTION PLATFORMS SHALL BE PROVIDED AS PER RAILWAY GUIDE LINES.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
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 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.
 - CRS SANCTION SHALL BE OBTAINED FOR PROPOSED WORK AS PER IRPWM.
 - TEMPORARY ARRANGEMENT DRAWING/ METHODOLOGY FOR LAUNCHING OF GIRDERS OVER RAILWAY TRACK AND CONSTRUCTION OF FOUNDATIONS/SUB STRUCTURES ADJACENT TO RAILWAY TRACK SHOULD BE GOT APPROVED FROM RAILWAY AUTHORITY BEFORE STARTING OF WORK.
 - THE CONTRACTOR SHALL ENSURE DURING EXECUTION OF WORK THAT SAFETY OF RUNNING RAIL TRAFFIC IS NOT EFFECTED.
 - THE WORK SHALL BE EXECUTED UNDER INTERMITTENT TRAFFIC AND POWER BLOCK.
 - THE SPAN CONFIGURATION AND POSITION OF IR FUTURE TRACKS WILL REQUIRE THE APPROVAL OF IR.

INDICATIVE DRAWING

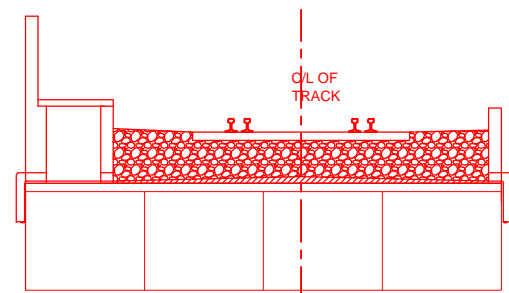
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED RFO BR. NO. 1 SPAN (1X9.15+1X48.0+1X24.4) AT CH. -1549.690				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/1	R0
						SHEET 1 OF 2



SECTION AT B-B



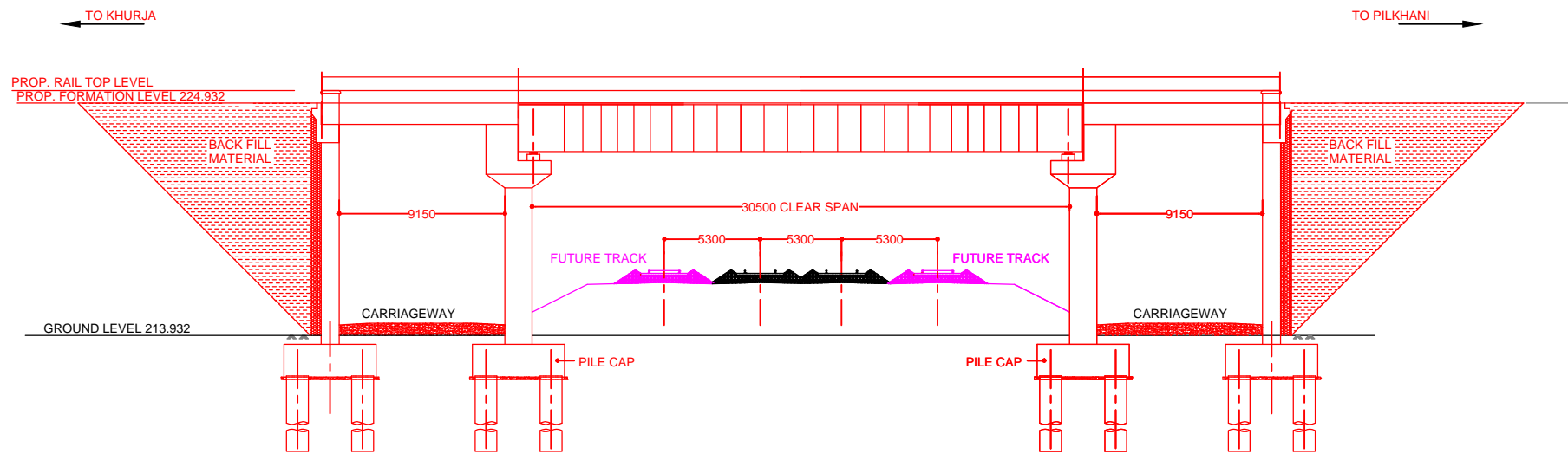
SECTION OF RETURN WALL AT C-C



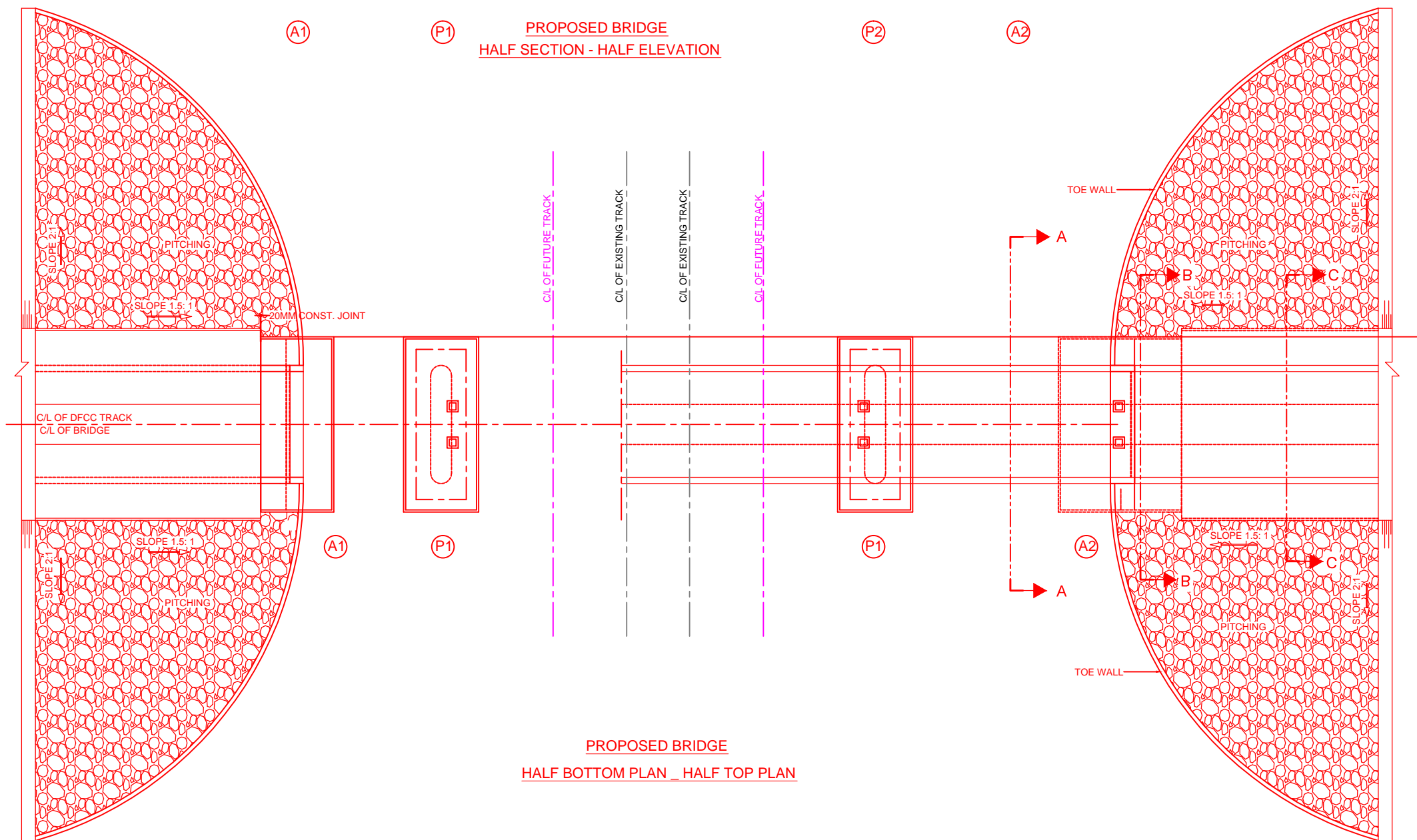
TYPICAL CROSS SECTION
SLAB FOR 9.15m

INDICATIVE DRAWING

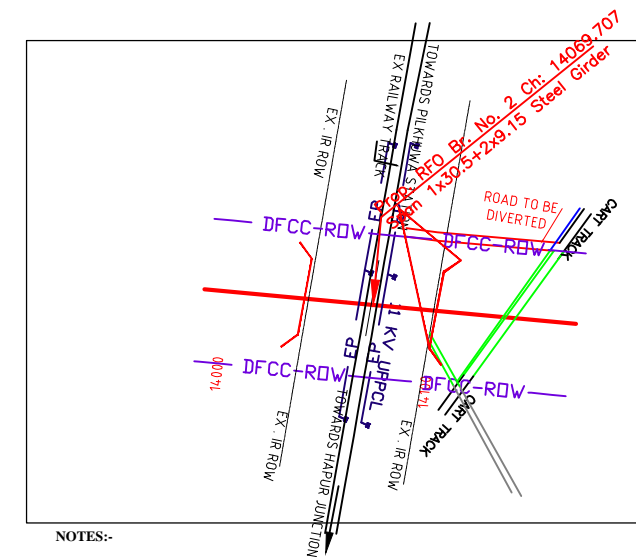
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED RFO BR. NO. 1 SPAN (1X9.15+1X48.0+1X24.4) AT CH. -1549.690				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/1 SHEET 2 OF 2	R0



**PROPOSED BRIDGE
HALF SECTION - HALF ELEVATION**



**PROPOSED BRIDGE
HALF BOTTOM PLAN - HALF TOP PLAN**

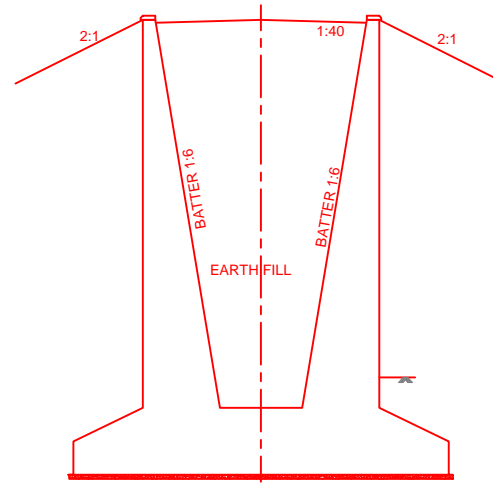


NOTES:-

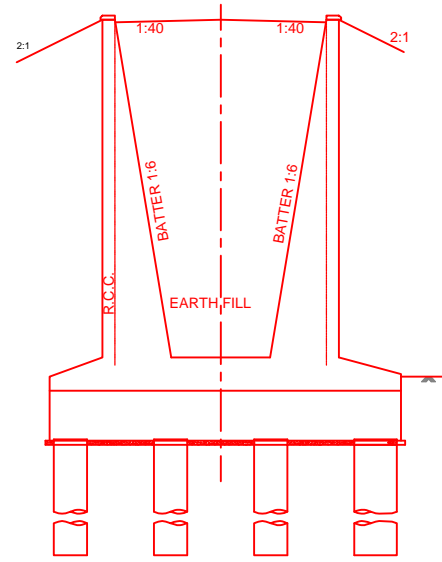
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
i) IRS BRIDGE RULES.
ii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC.
v) RELEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. INSPECTION PLATFORMS SHALL BE PROVIDED AS PER RAILWAY GUIDE LINES.
9. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
10. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
11. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
12. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
13. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
14. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED OVER CONCRETE DECK.
15. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY
16. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.
17. CRS SANCTION SHALL BE OBTAINED FOR PROPOSED WORK AS PER IRPVM.
18. TEMPORARY ARRANGEMENT DRAWING/ METHODOLOGY FOR LAUNCHING OF GIRDERS OVER RAILWAY TRACK AND CONSTRUCTION OF FOUNDATIONS/SUB STRUCTURES ADJACENT TO RAILWAY TRACK SHOULD BE GOT APPROVED FROM RAILWAY AUTHORITY BEFORE STARTING OF WORK.
19. THE CONTRACTOR SHALL ENSURE DURING EXECUTION OF WORK THAT SAFETY OF RUNNING RAIL TRAFFIC IS NOT EFFECTED.
20. THE WORK SHALL BE EXECUTED UNDER INTERMITTENT TRAFFIC AND POWER BLOCK.

INDICATIVE DRAWING

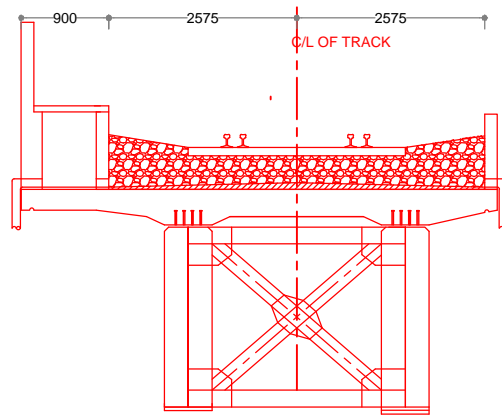
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.	
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)	
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED RFO BR. NO. 2 SPAN (1X9.15+1X30.5+1X9.15) AT CH. 14069.707	
TITLE		GENERAL ARRANGEMENT DRAWING	
SCALE	DATE	DRAWN BY	CHECKED BY
NTS	JUNE 2016		
APPROVED BY	DRG. NO.	REV.	
	AECOM/303/RFO/2	R0	
SHEET 1 OF 2			



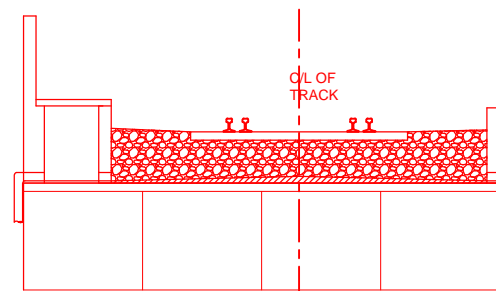
SECTION OF RETURN WALL AT C-C



SECTION AT B-B



TYPICAL CROSS SECTION FOR 30.5m SPAN



TYPICAL CROSS SECTION SLAB FOR 9.15m

INDICATIVE DRAWING



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

EASTERN CORRIDOR

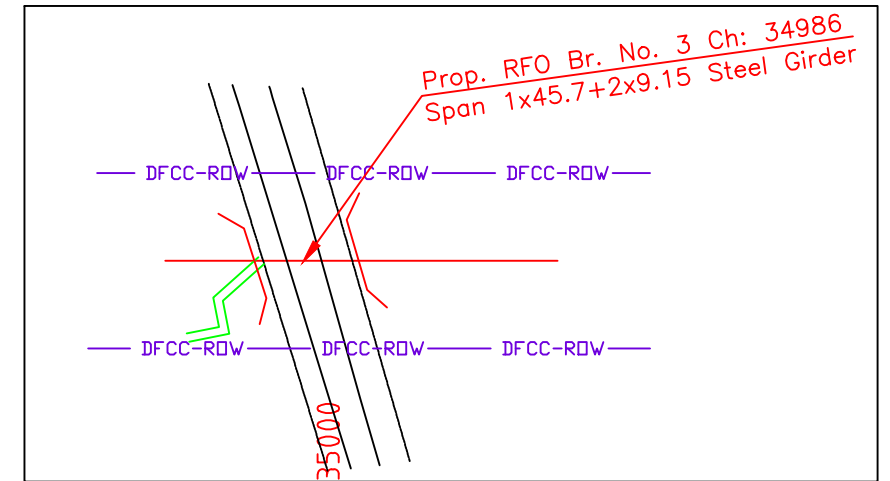
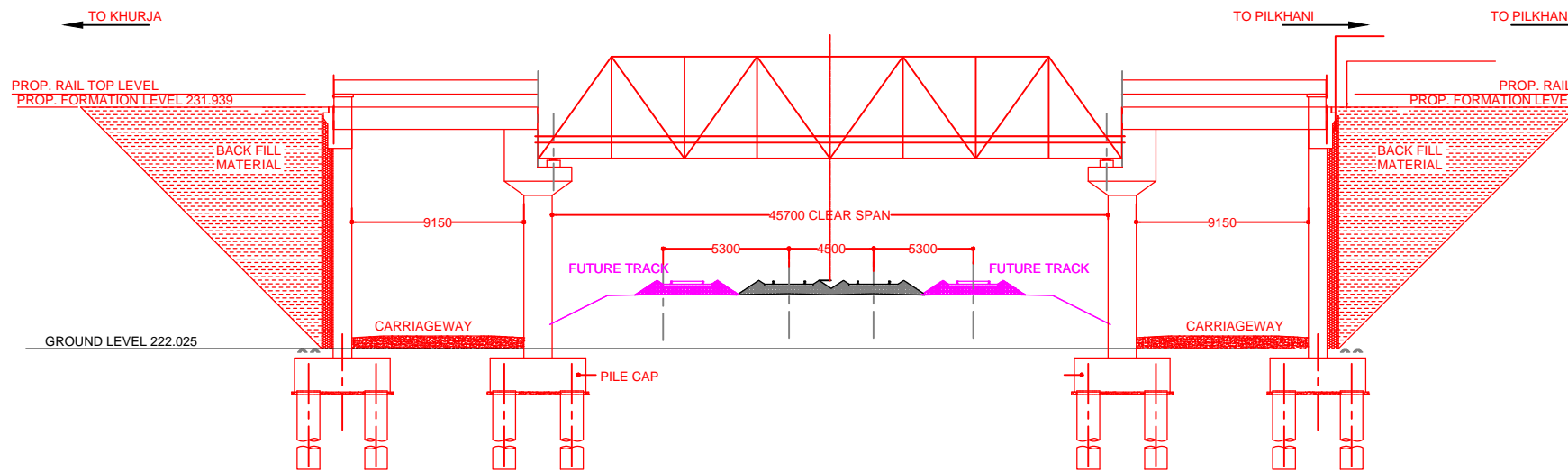
PROJECT KHURJA TO PILKHANI
From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

STRUCTURE PROPOSED RFO BR. NO. 2
SPAN (1X9.15+1X30.5+1X9.15) AT CH. 14069.707

TITLE GENERAL ARRANGEMENT DRAWING

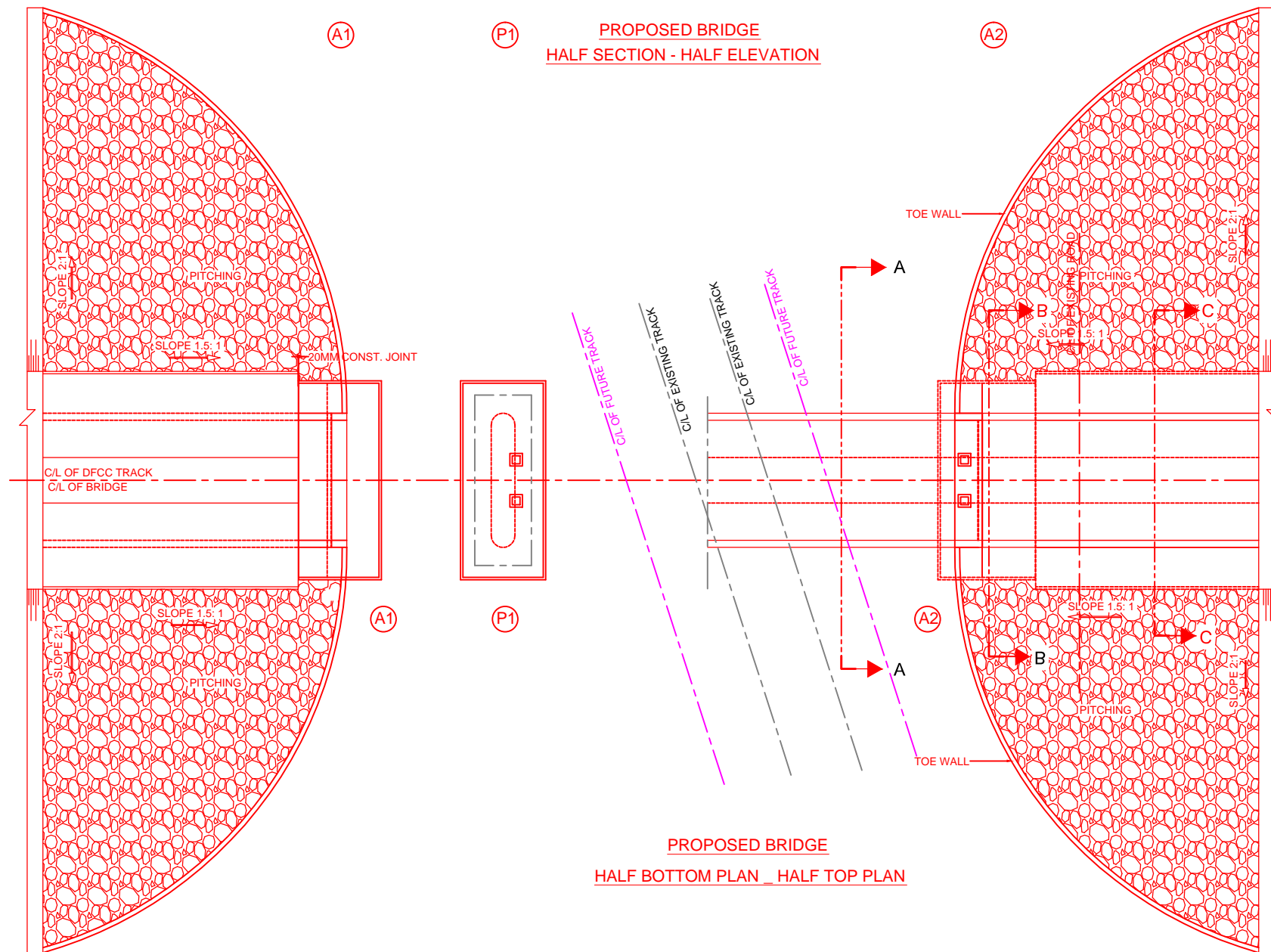
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/2 SHEET 2 OF 2	R0



NOTES:-

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 ii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC.
 v) RELEVANT BIS CODES.
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5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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14. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED OVER CONCRETE DECK.
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20. THE WORK SHALL BE EXECUTED UNDER INTERMITTENT TRAFFIC AND POWER BLOCK.

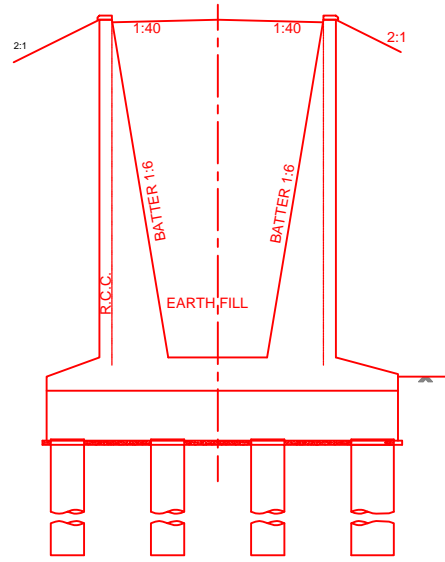
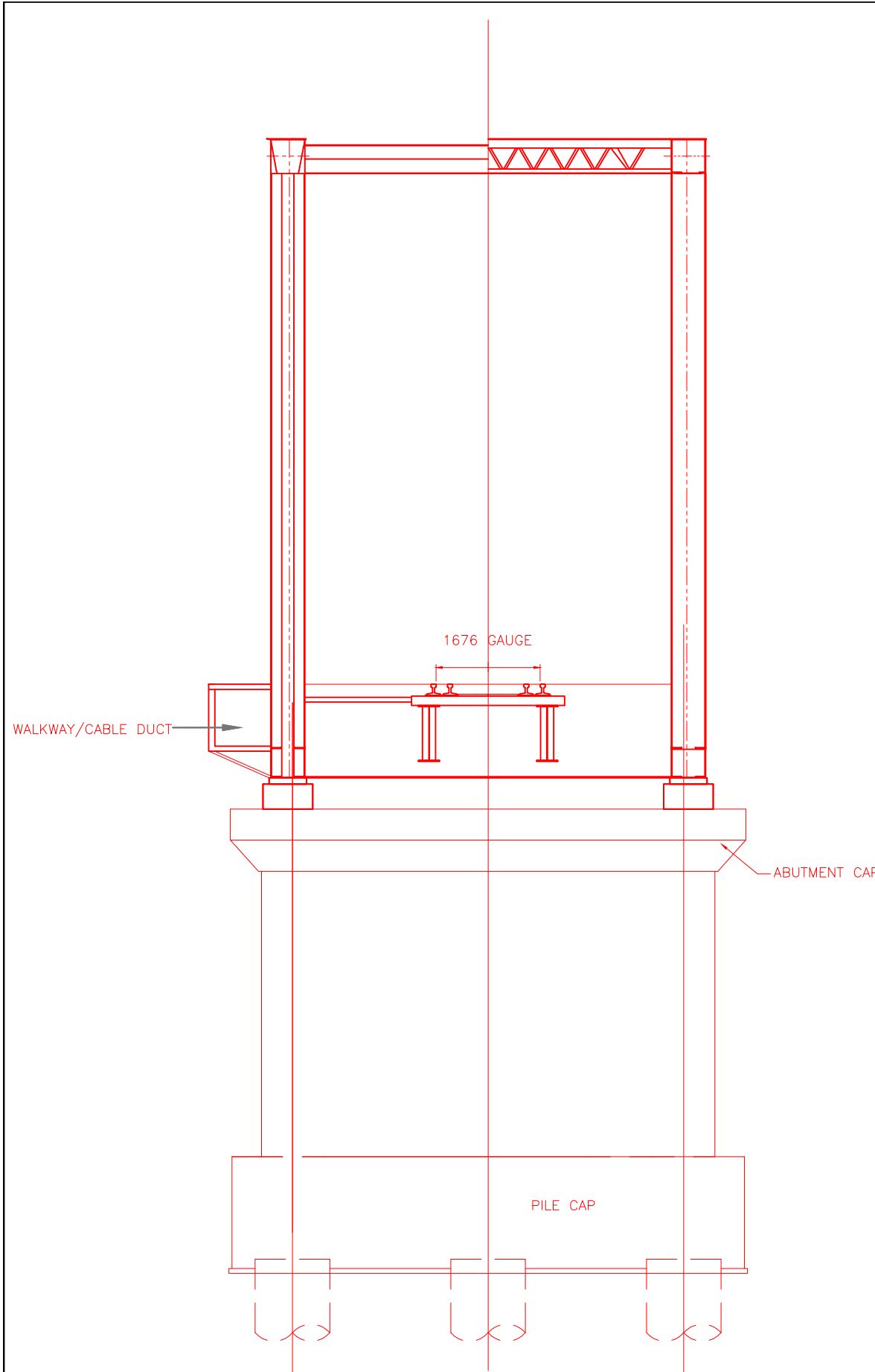
**PROPOSED BRIDGE
HALF SECTION - HALF ELEVATION**



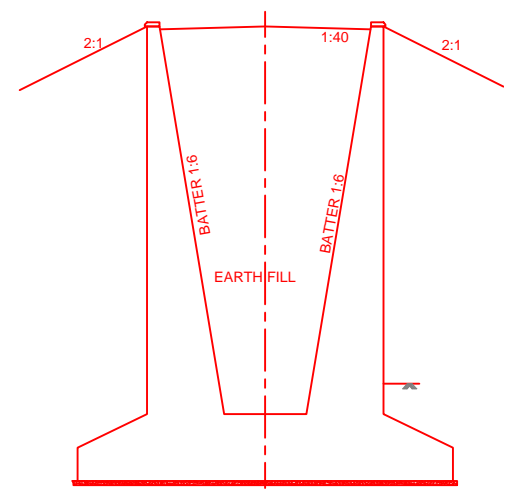
**PROPOSED BRIDGE
HALF BOTTOM PLAN - HALF TOP PLAN**

INDICATIVE DRAWING

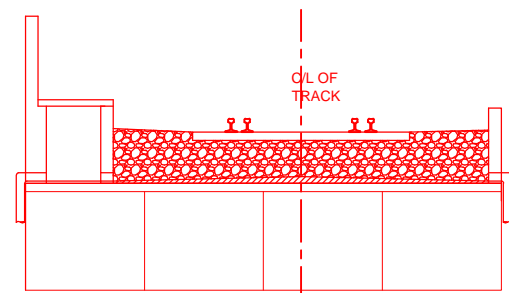
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED RFO BR. NO. 3 SPAN (1X9.15+1X45.7+1X9.15) AT CH. 34986				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/3 SHEET 1 OF 2	R0



SECTION AT B-B



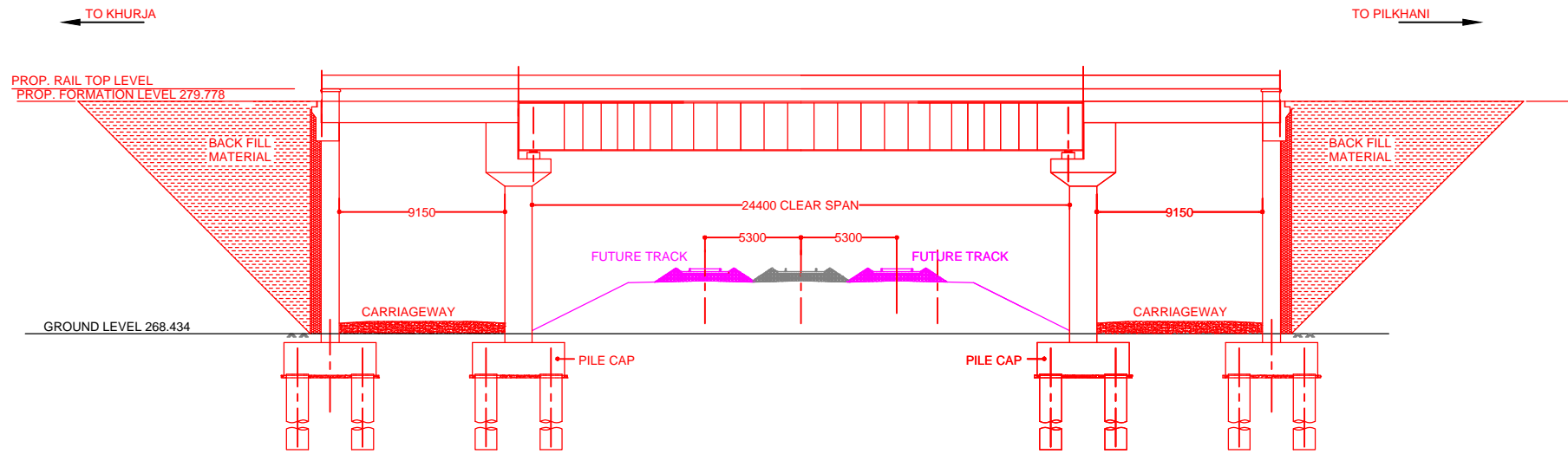
SECTION OF RETURN WALL AT C-C



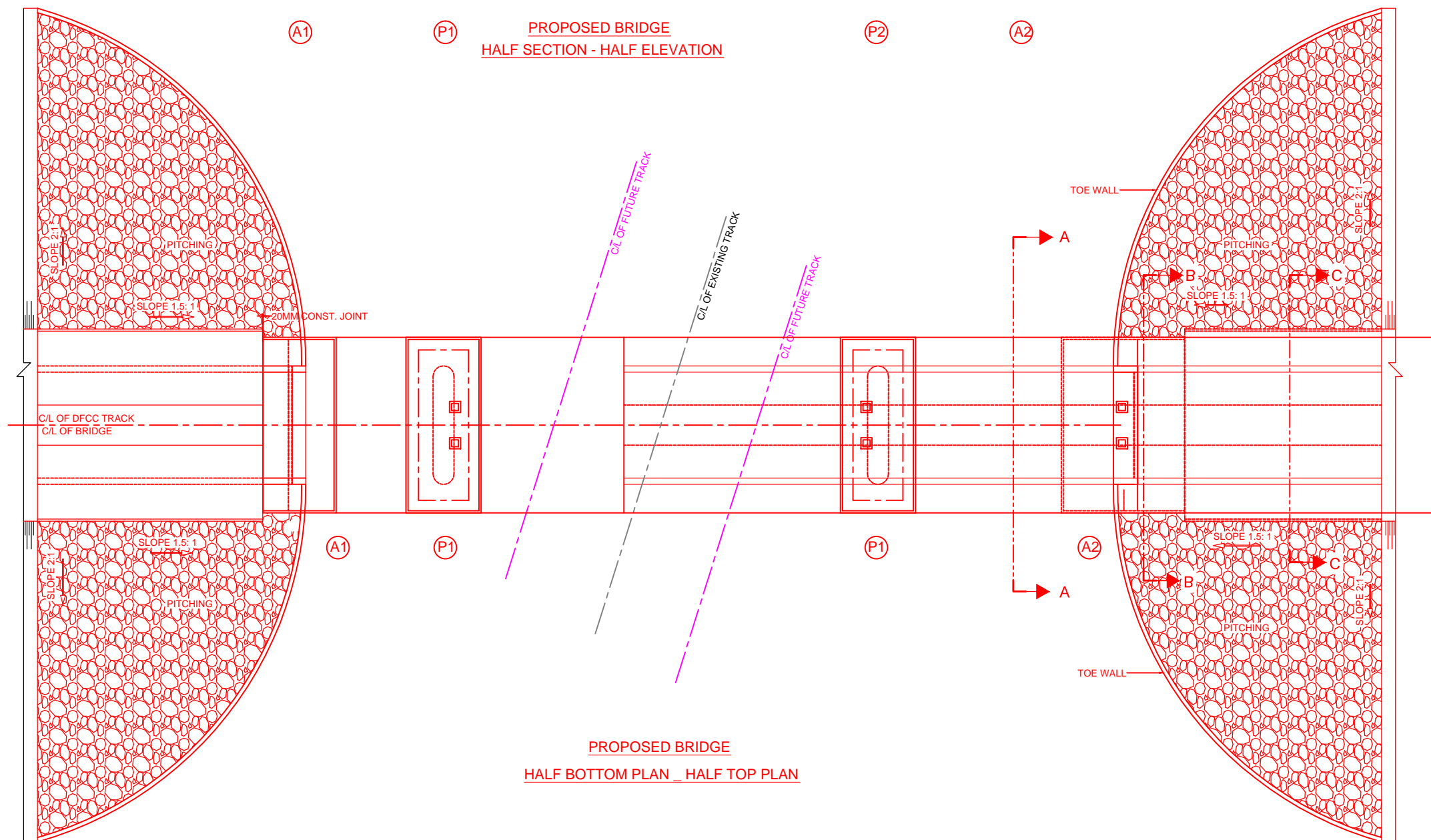
TYPICAL CROSS SECTION
SLAB FOR 9.15m

INDICATIVE DRAWING

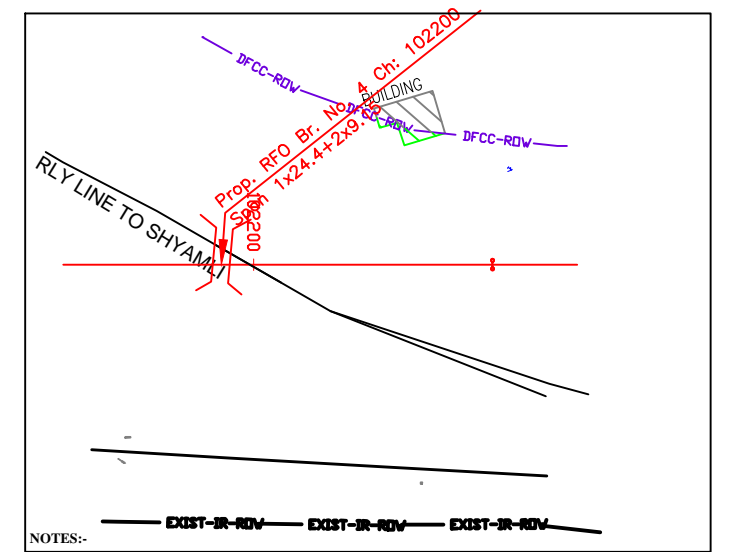
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED RFO BR. NO. 3 SPAN (1X9.15+1X45.7+1X9.15) AT CH. 34986				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/3 SHEET 2 OF 2	R0



**PROPOSED BRIDGE
HALF SECTION - HALF ELEVATION**



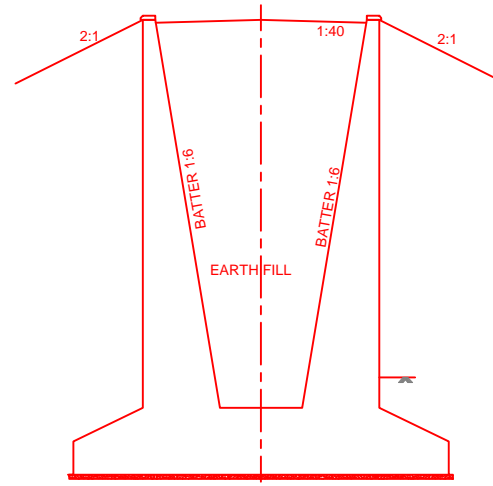
**PROPOSED BRIDGE
HALF BOTTOM PLAN - HALF TOP PLAN**



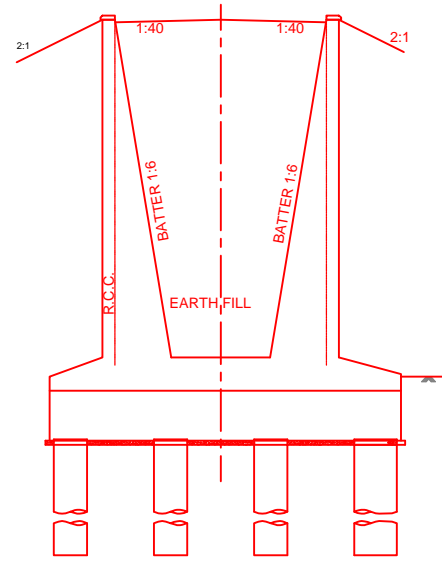
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
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 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
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INDICATIVE DRAWING

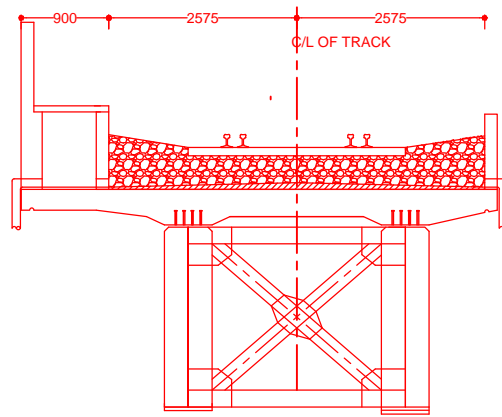
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED RFO BR. NO. 4 SPAN (1X9.15+1X24.4+1X9.15) AT CH. 102200				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/4	R0



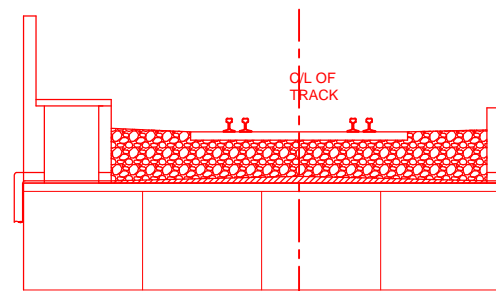
SECTION OF RETURN WALL AT C-C



SECTION AT B-B



TYPICAL CROSS SECTION FOR 30.5m SPAN



TYPICAL CROSS SECTION SLAB FOR 9.15m

INDICATIVE DRAWING



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

EASTERN CORRIDOR

PROJECT KHURJA TO PILKHANI
 From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

STRUCTURE PROPOSED RFO BR. NO. 4
 SPAN (1X9.15+1X24.4+1X9.15) AT CH. 102200

TITLE GENERAL ARRANGEMENT DRAWING

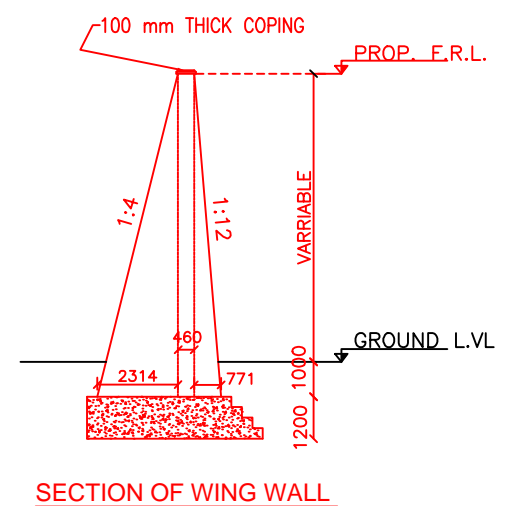
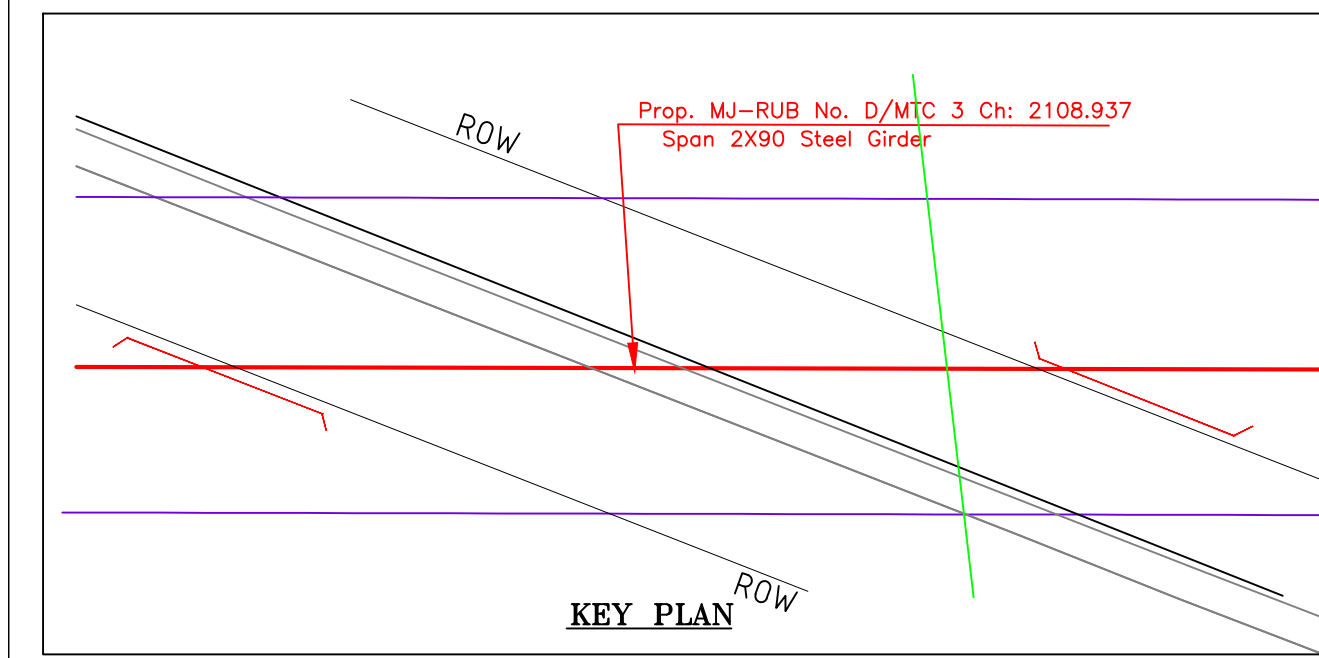
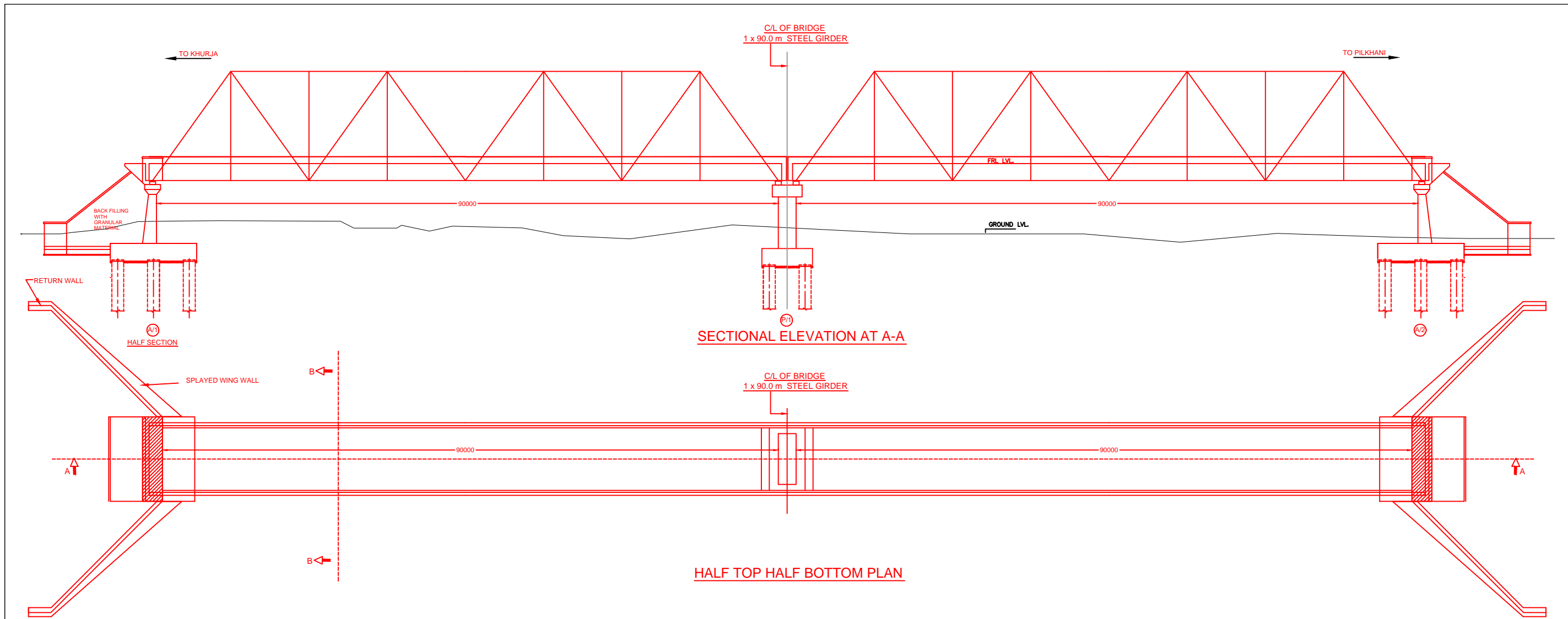
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/RFO/4 SHEET 2 OF 2	R0

Contract Package: 303


KHURJA TO PILKHANI

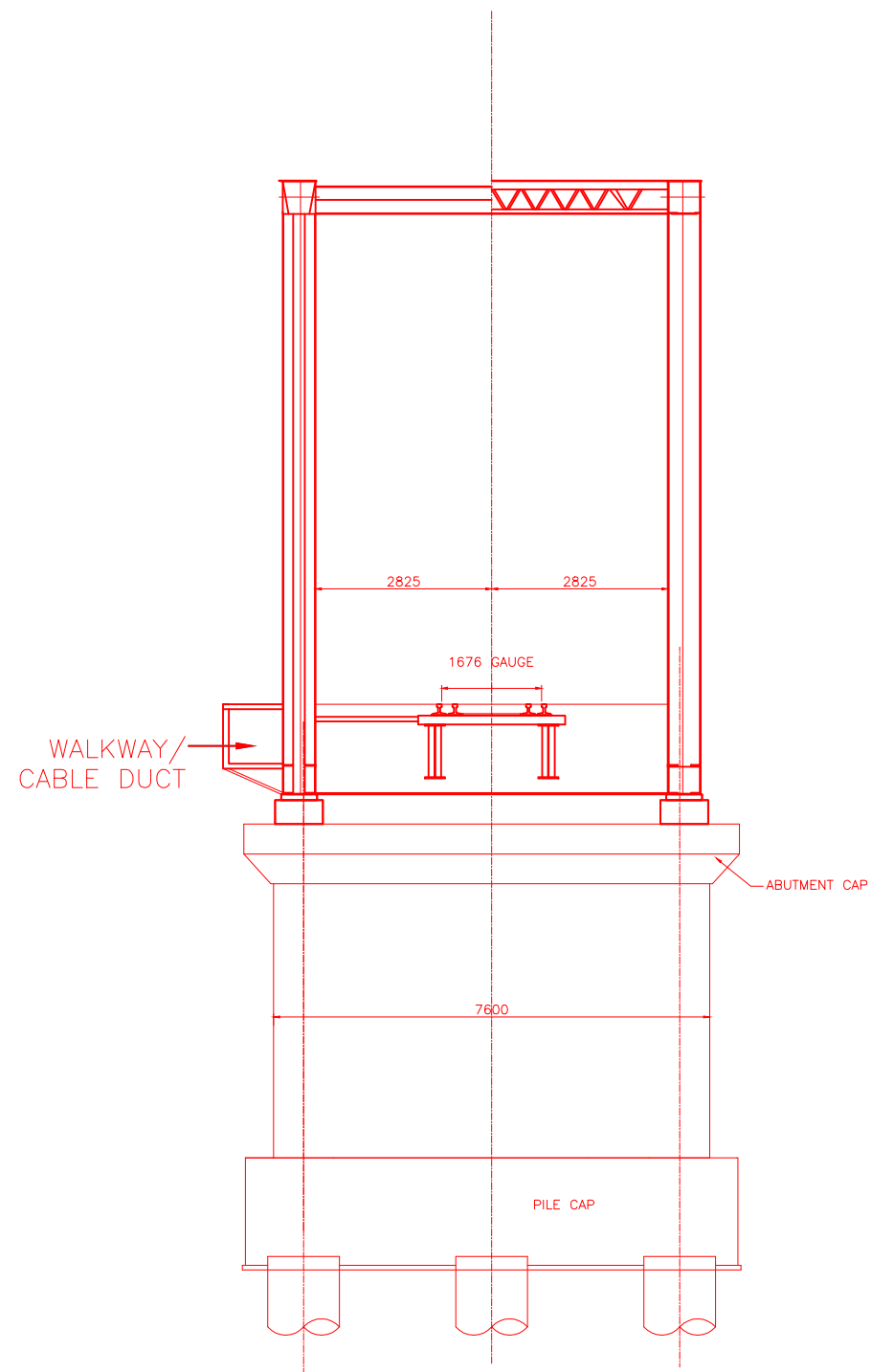
From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF MAJOR RUBS

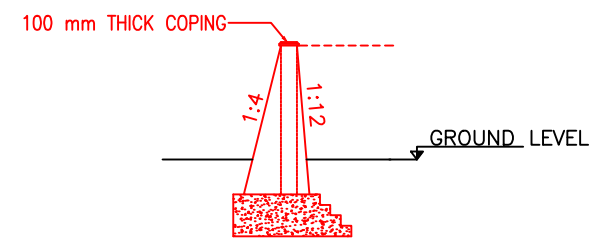


INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 3 SPAN (2X90.0m) AT CH. 2108.937				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC3 SHEET 1 OF 2	R0



TYP. SEC.B-B





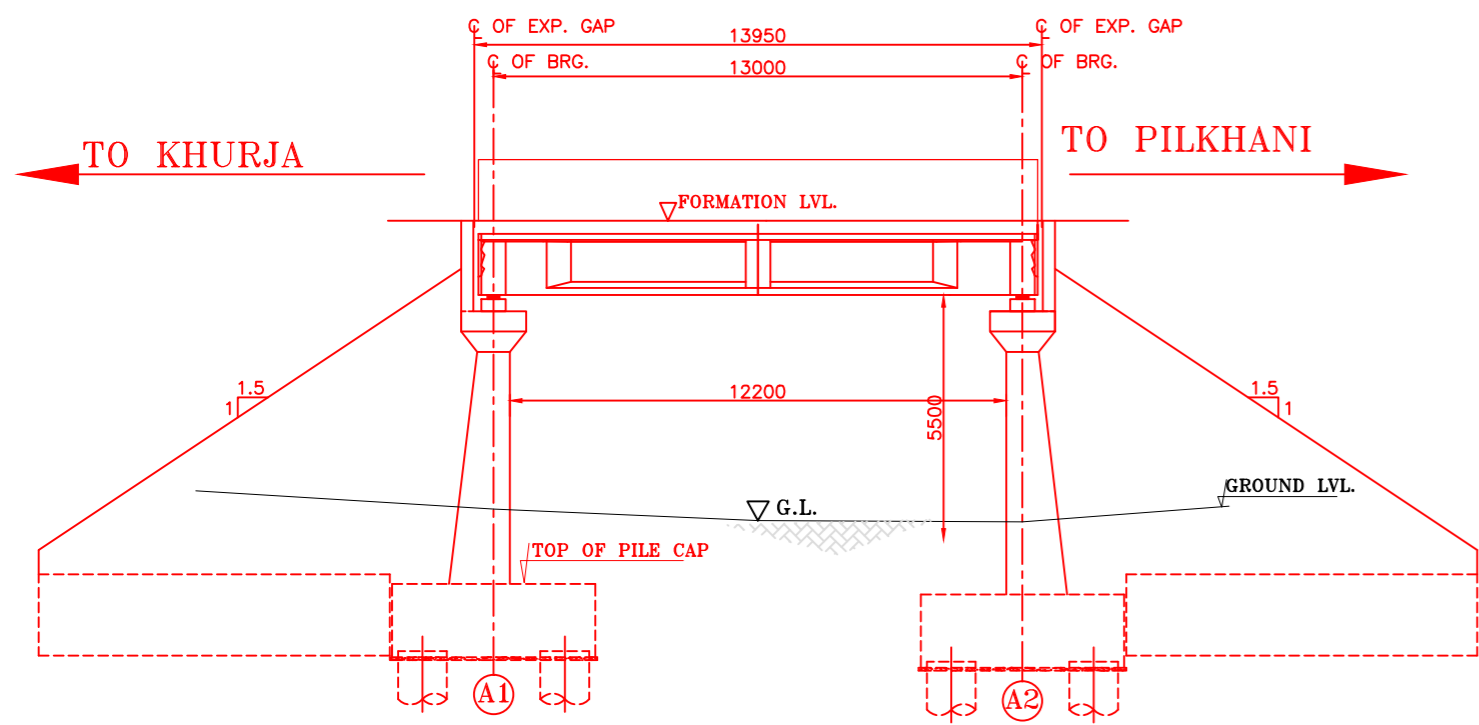
SECTION OF RETAINING WALL

NOTES:-

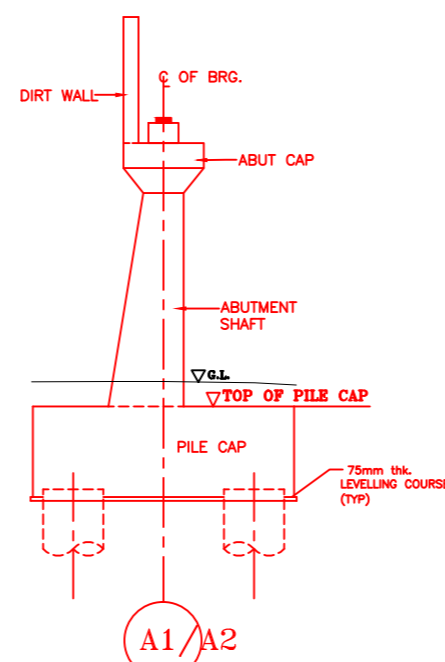
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

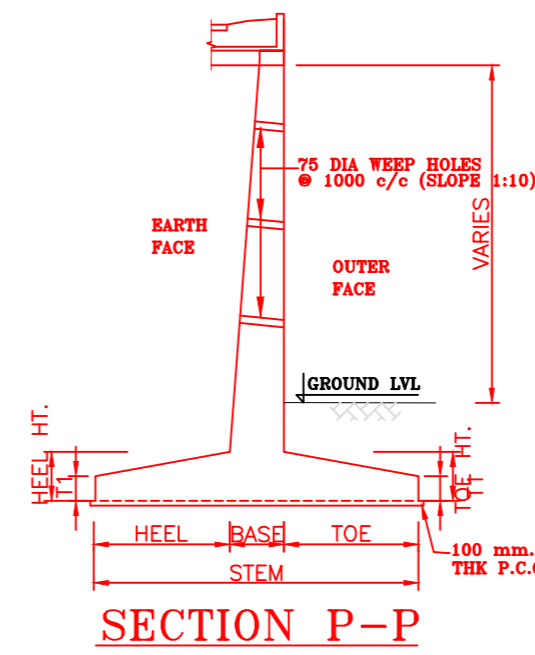
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 3 SPAN (2X90.0m) AT CH. 2108.937				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC3 SHEET 2 OF 2	R0



SECTIONAL ELEVATION



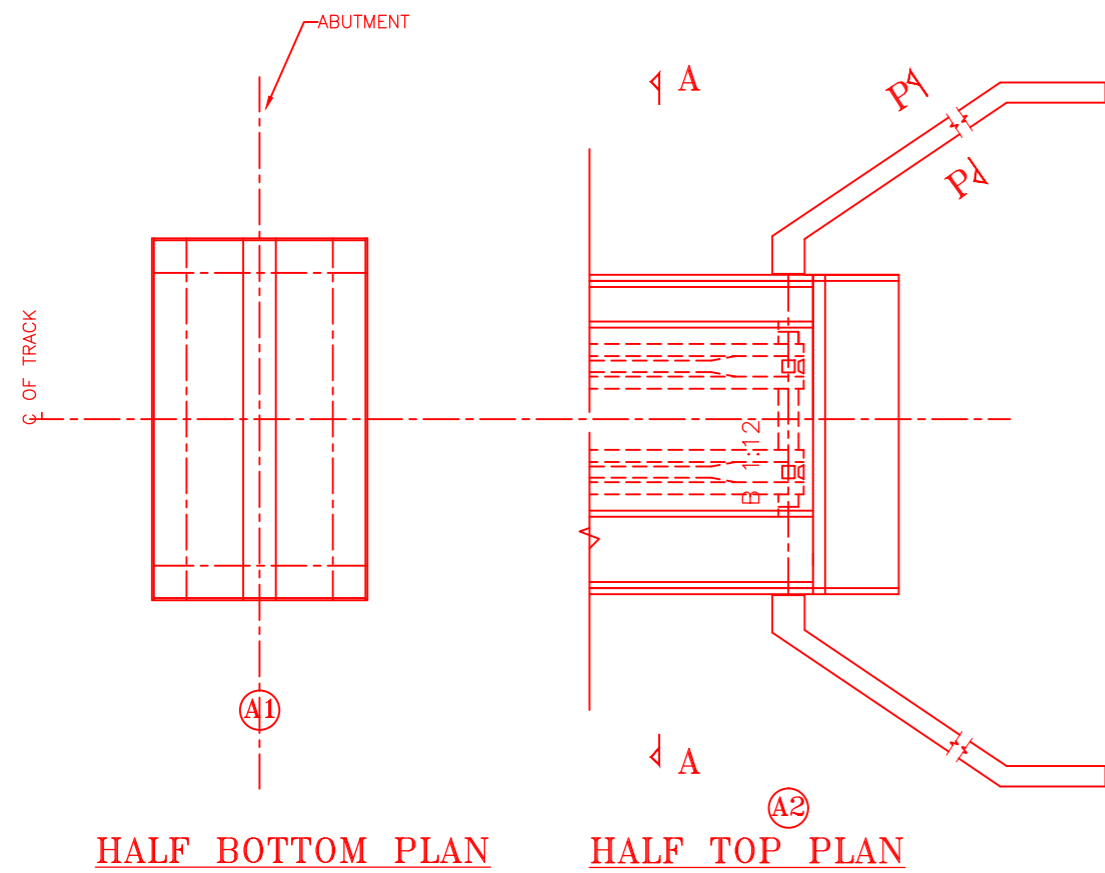
DETAIL OF ABUTMENT



SECTION P-P

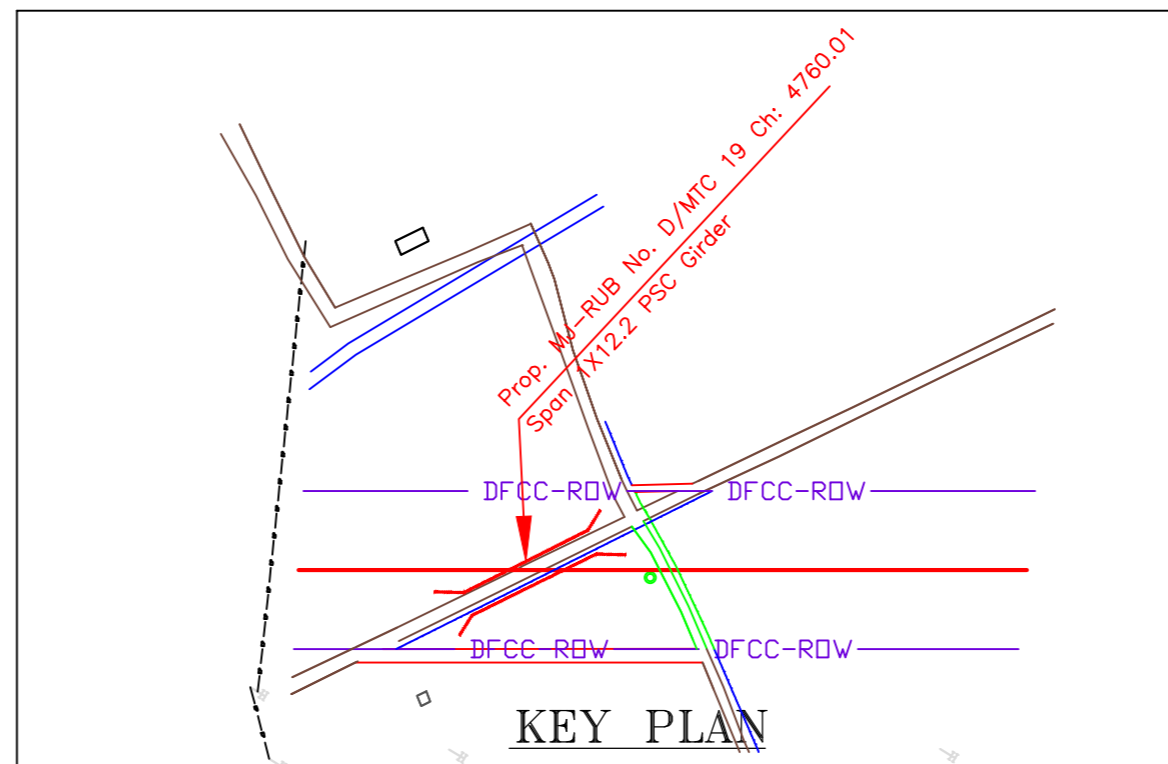
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

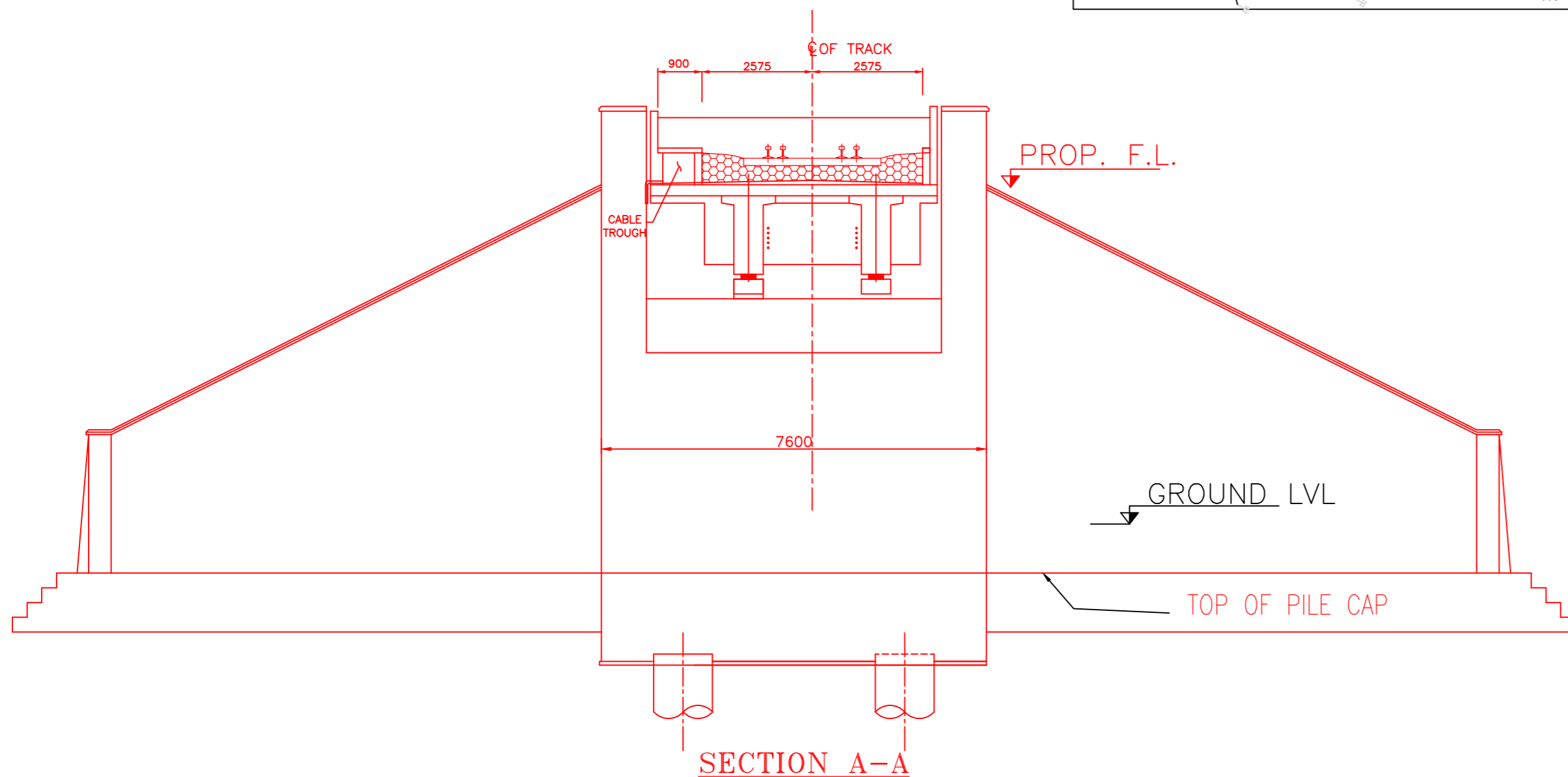


HALF BOTTOM PLAN

HALF TOP PLAN



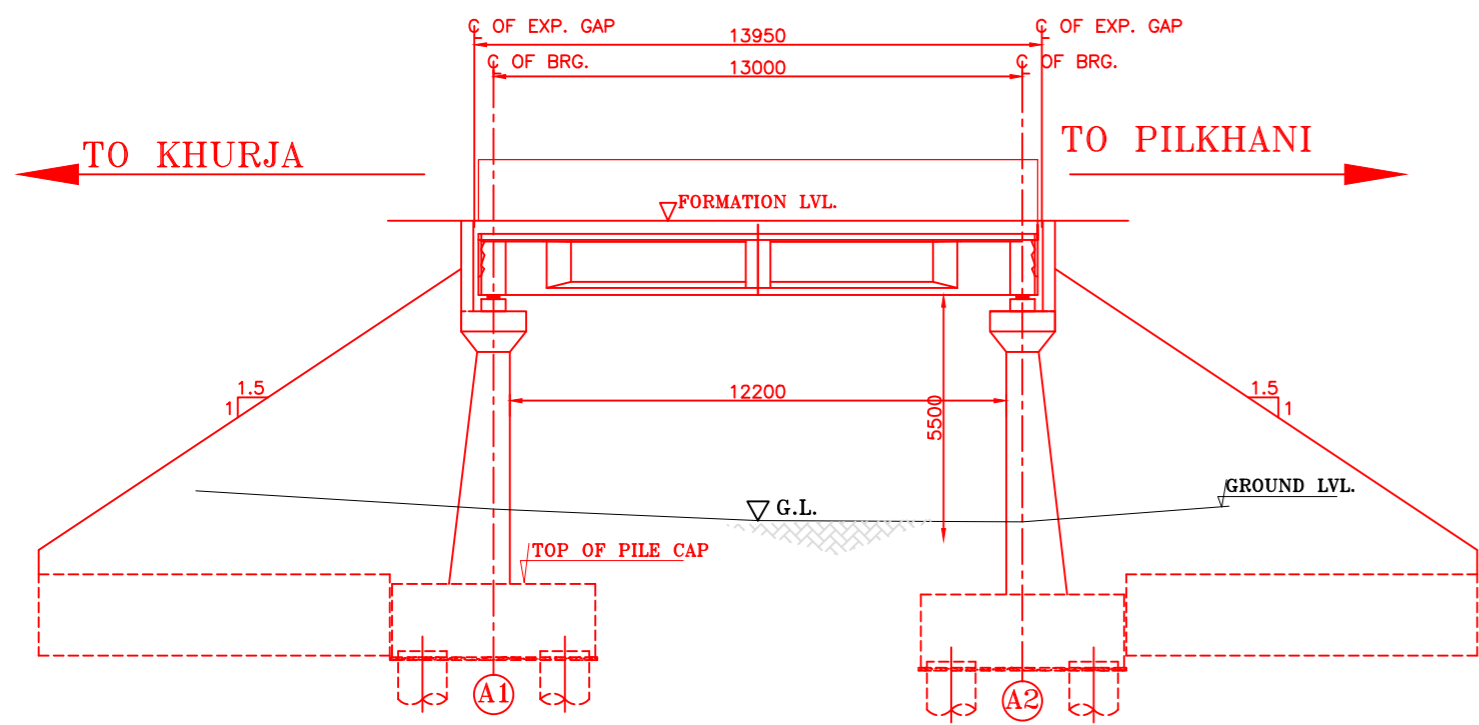
KEY PLAN



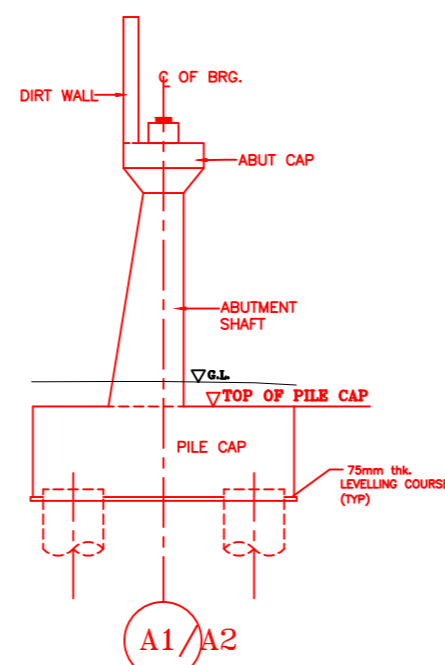
SECTION A-A

INDICATIVE DRAWING

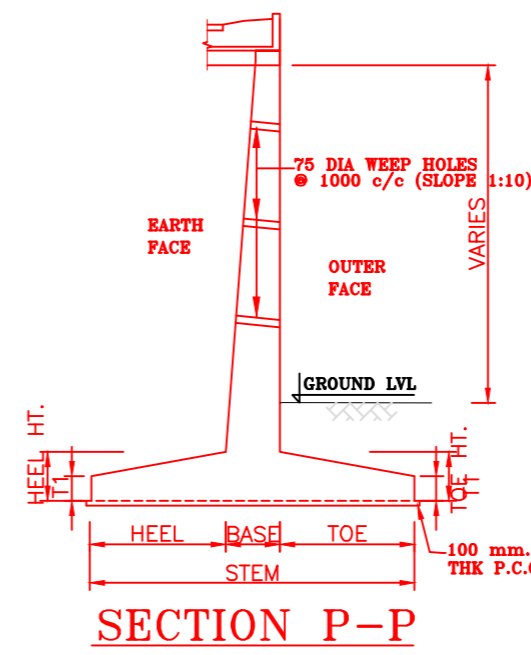
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GENERAL CONSULTANT 		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
		CONTRACT PACKAGE - 303				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 19 SPAN (1X12.2m) AT CH. 4760.010				
		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC19	R0



SECTIONAL ELEVATION



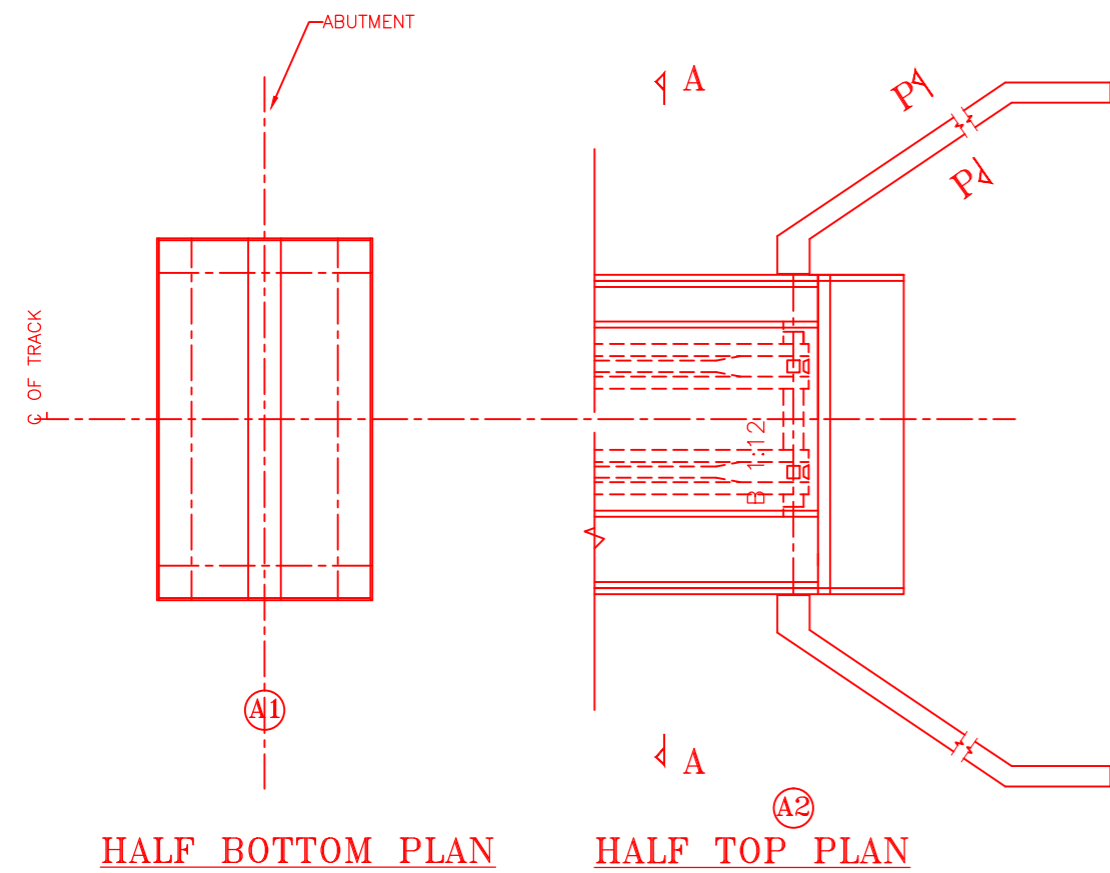
DETAIL OF ABUTMENT



SECTION P-P

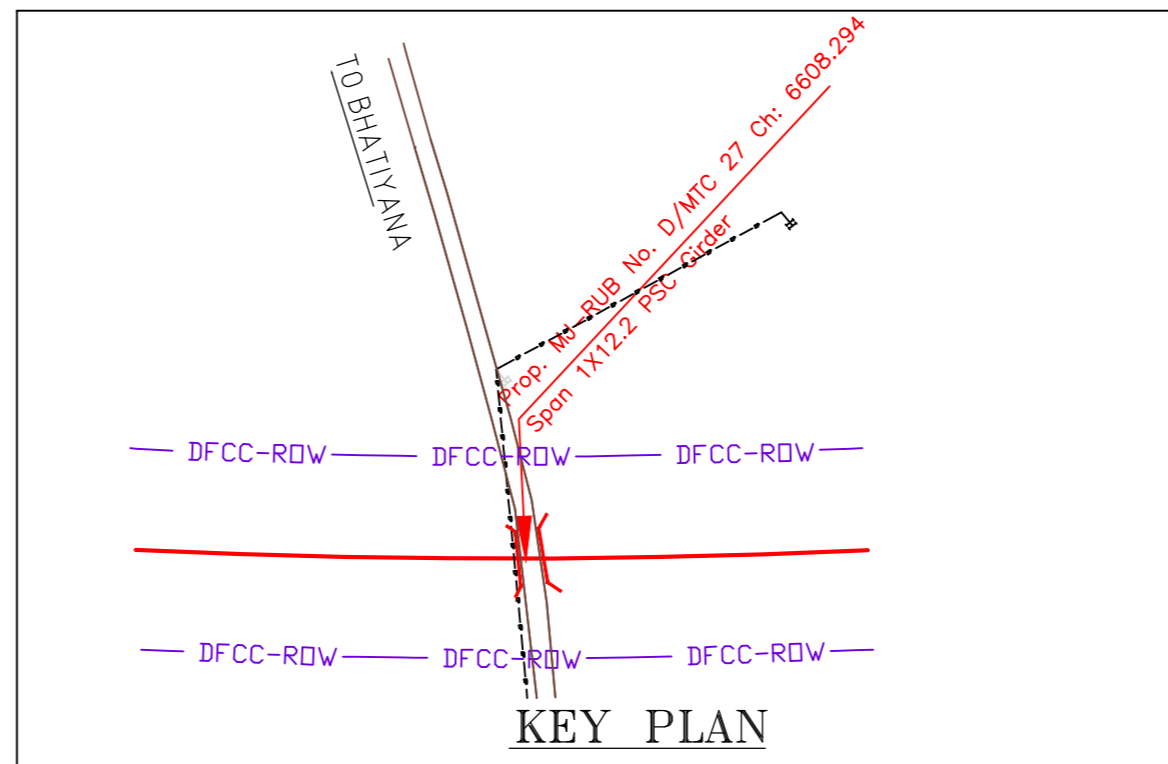
NOTES:-

- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
- a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
- HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
- ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
- SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
- TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
- MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
- THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
- IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
- IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
- THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
- THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
- WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
- STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
- WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
- CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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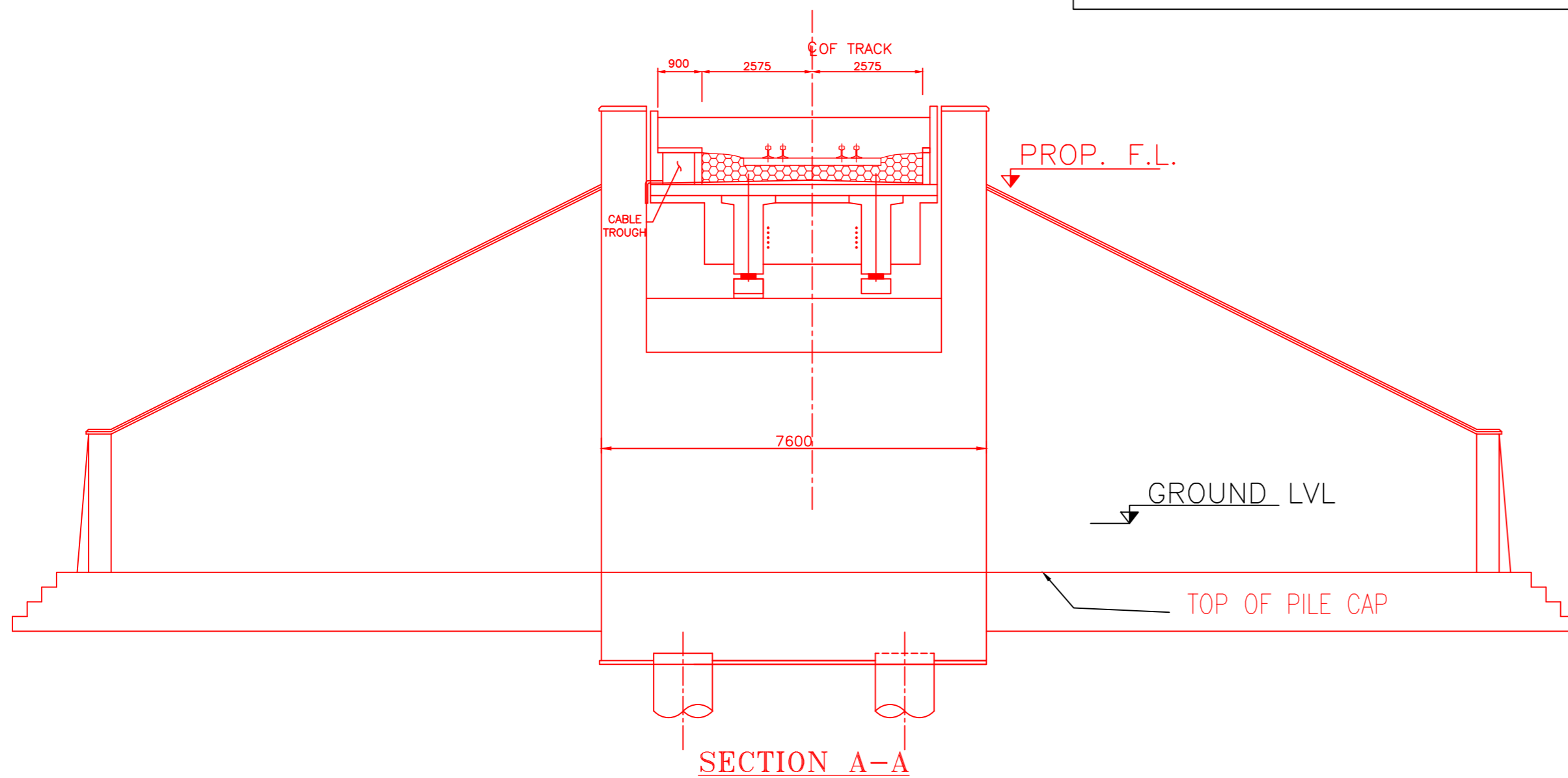


HALF BOTTOM PLAN

HALF TOP PLAN




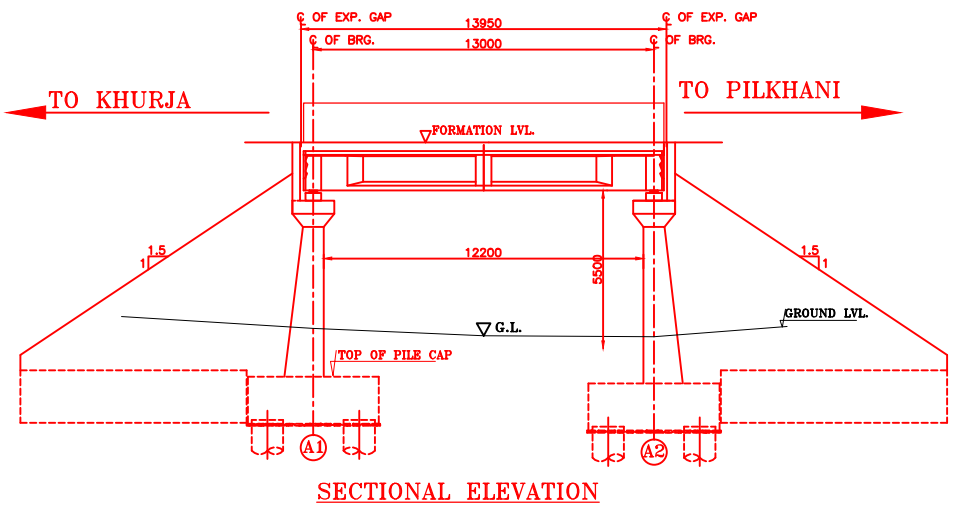
KEY PLAN



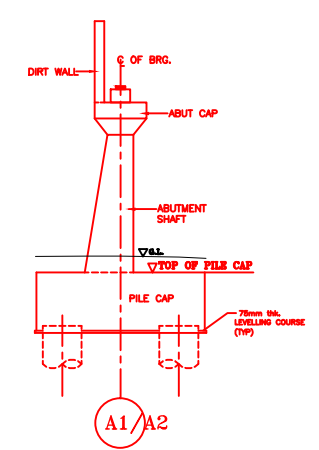
SECTION A-A

INDICATIVE DRAWING

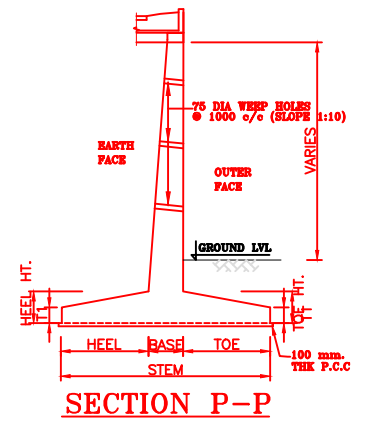
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GENERAL CONSULTANT	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
EASTERN CORRIDOR						
PROJECT	KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)					
CONTRACT PACKAGE - 303						
STRUCTURE	PROPOSED MAJOR BR. NO. D/MTC 27 SPAN (1X12.2m) AT CH. 6608.294					
GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC27	R0



SECTIONAL ELEVATION



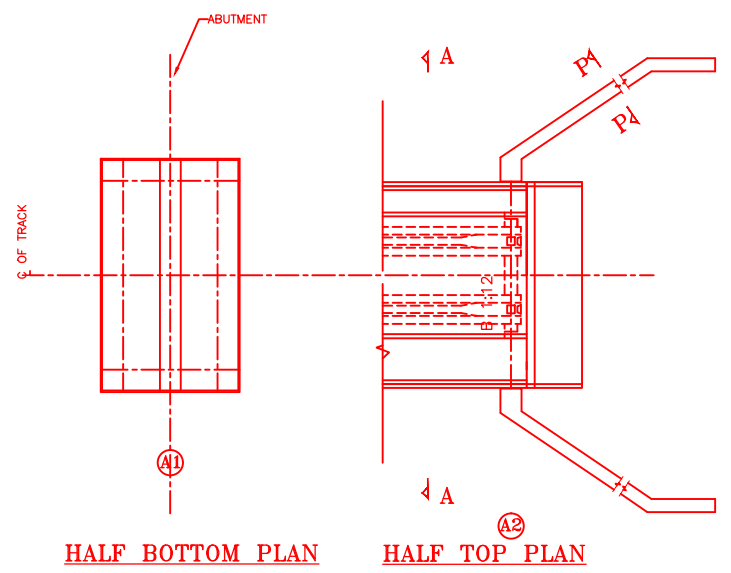
DETAIL OF ABUTMENT



SECTION P-P

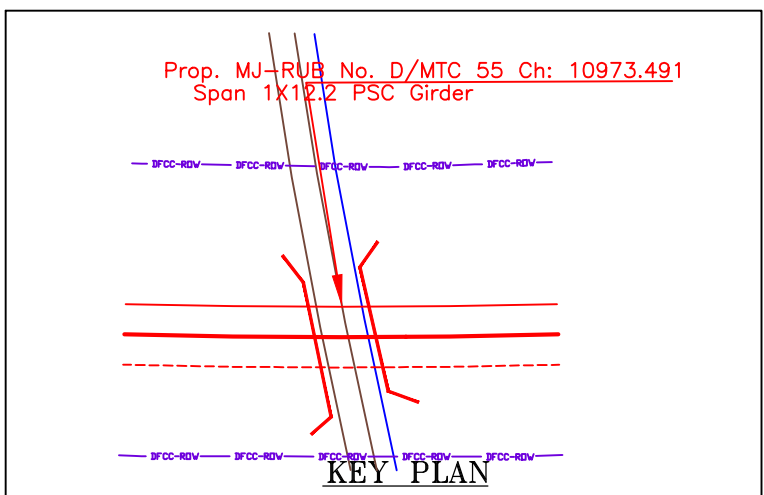
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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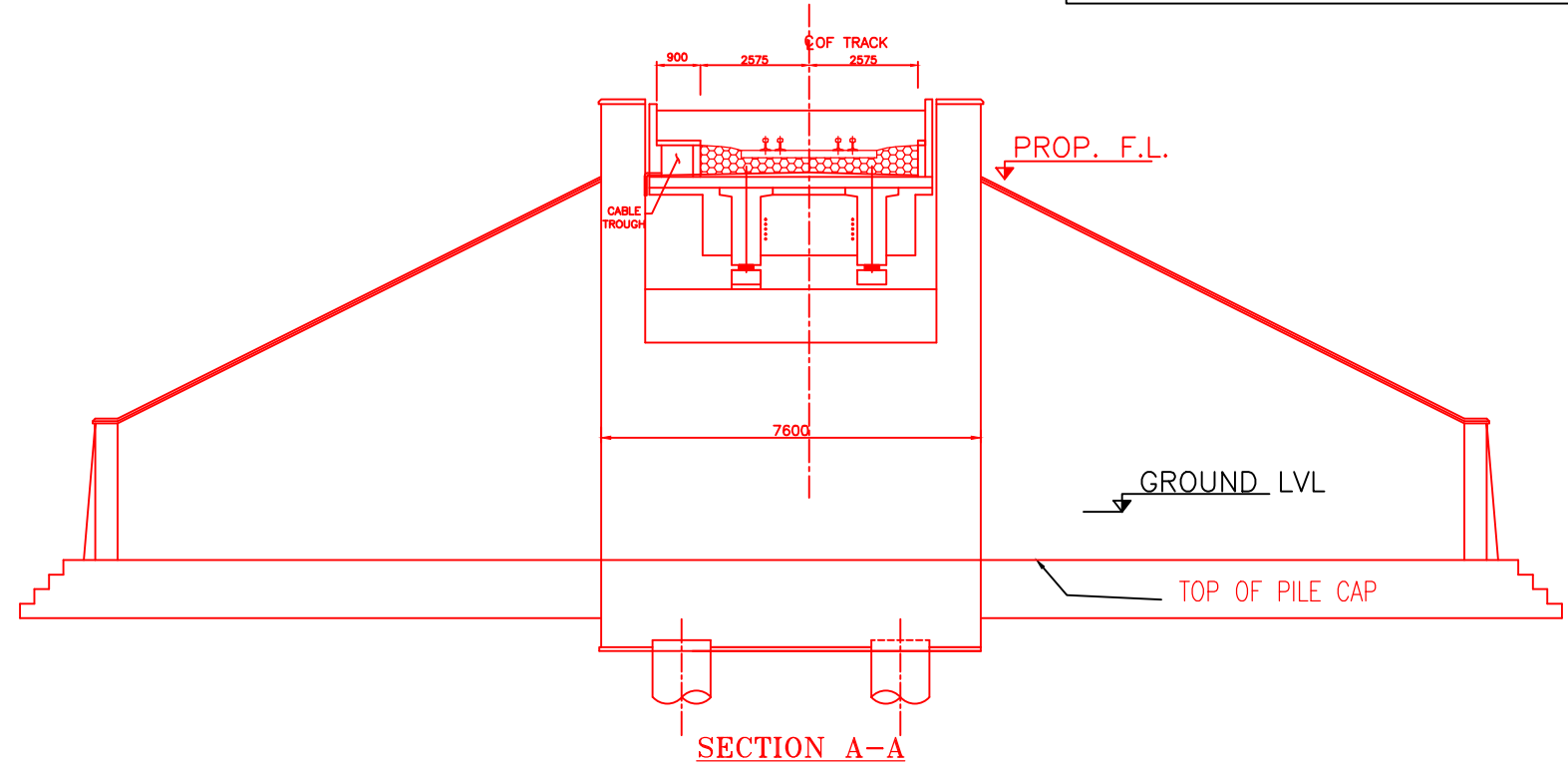


HALF BOTTOM PLAN

HALF TOP PLAN



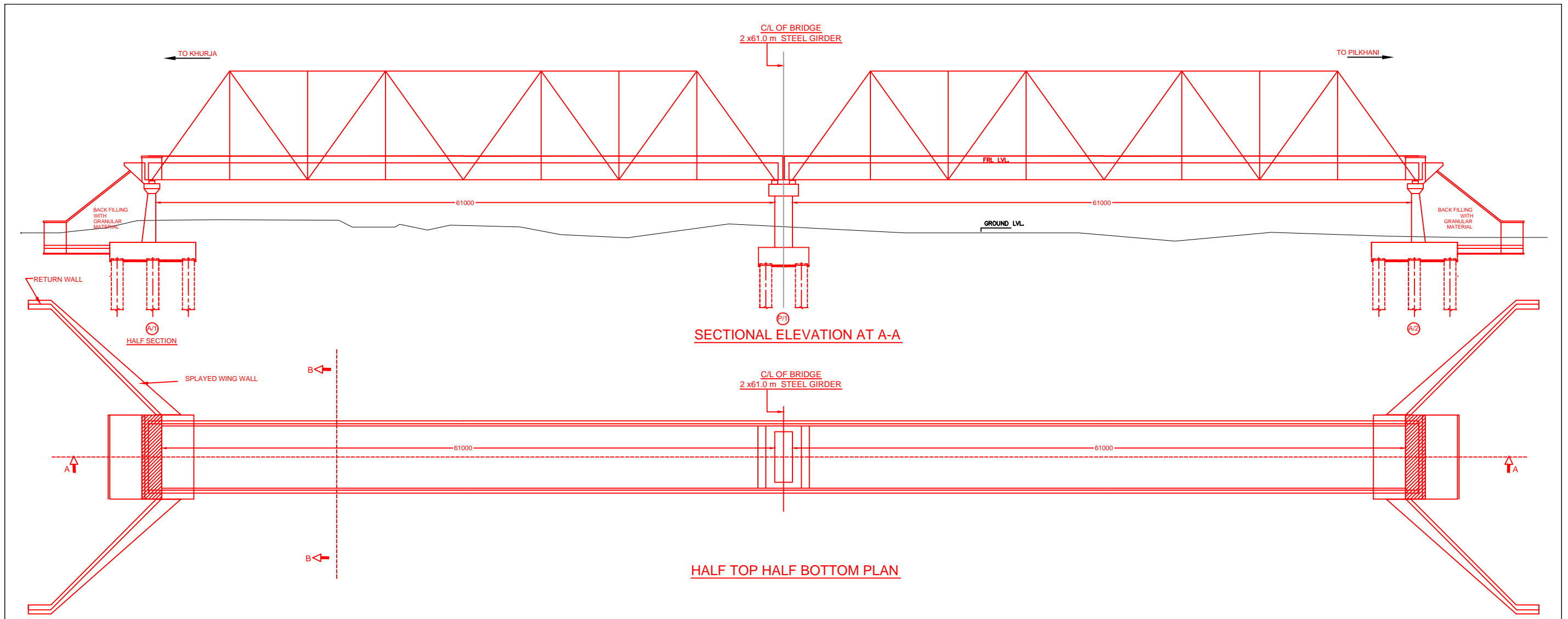
KEY PLAN



SECTION A-A

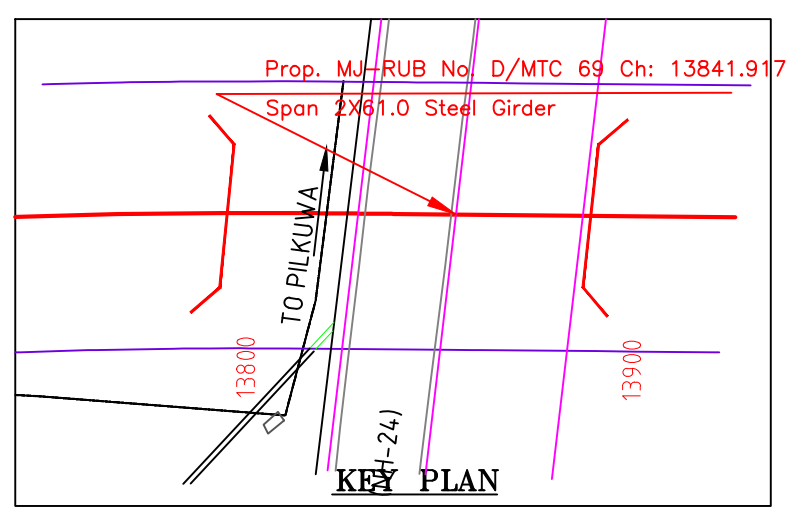
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
AECOM		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 55 SPAN (1X12.2m) AT CH. 10973.491				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC55	R0

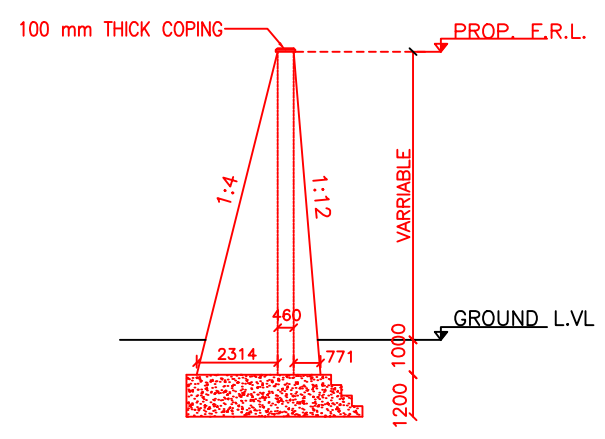


SECTIONAL ELEVATION AT A-A

HALF TOP HALF BOTTOM PLAN



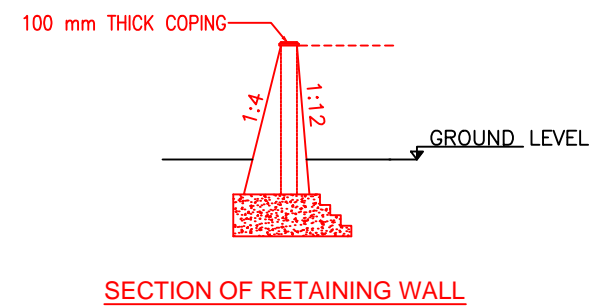
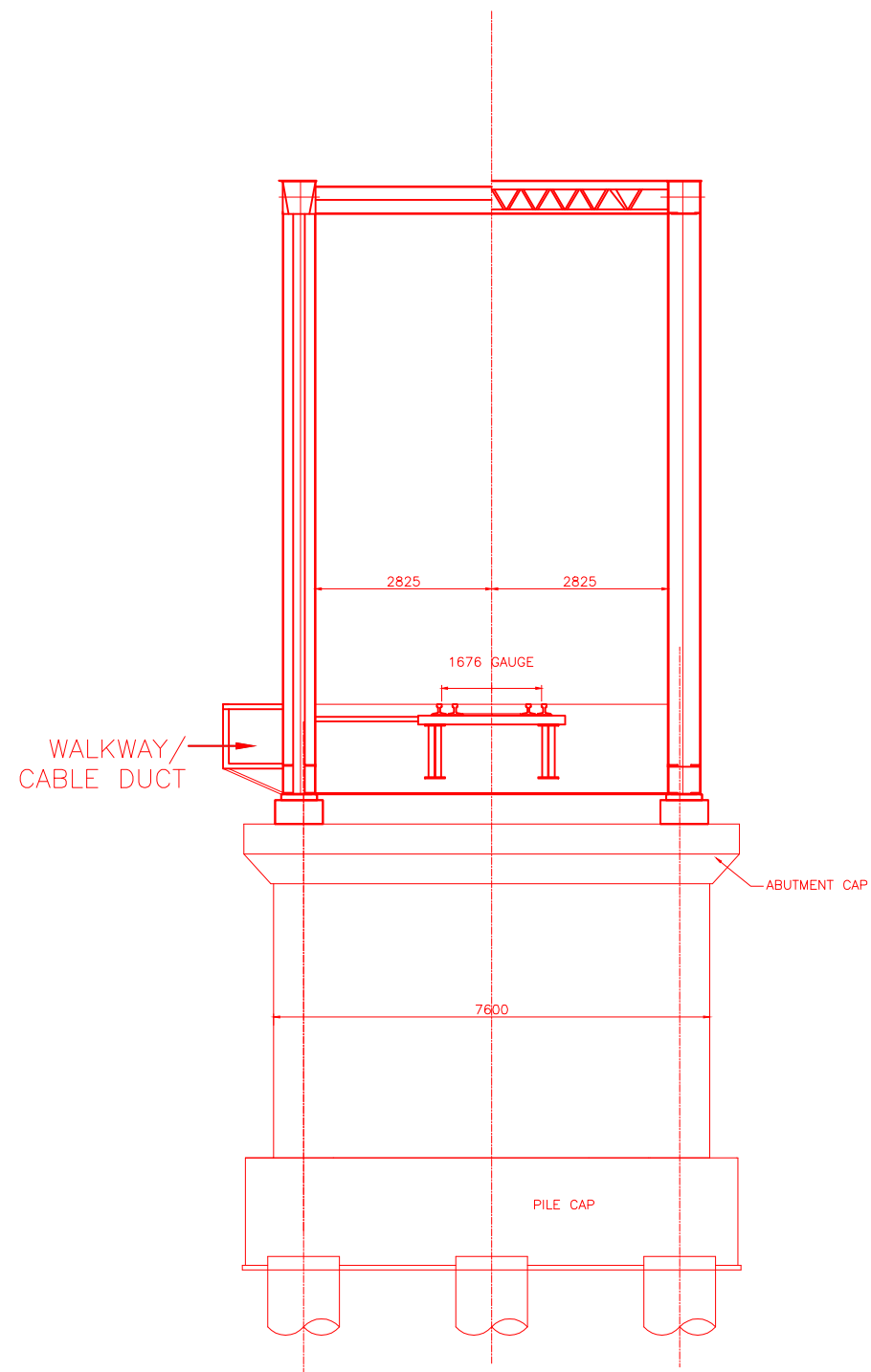
KEY PLAN



SECTION OF WING WALL

INDICATIVE DRAWING



		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 69 SPAN (2X61.0m) AT CH. 13841.917				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC69 SHEET 1 OF 2	R0

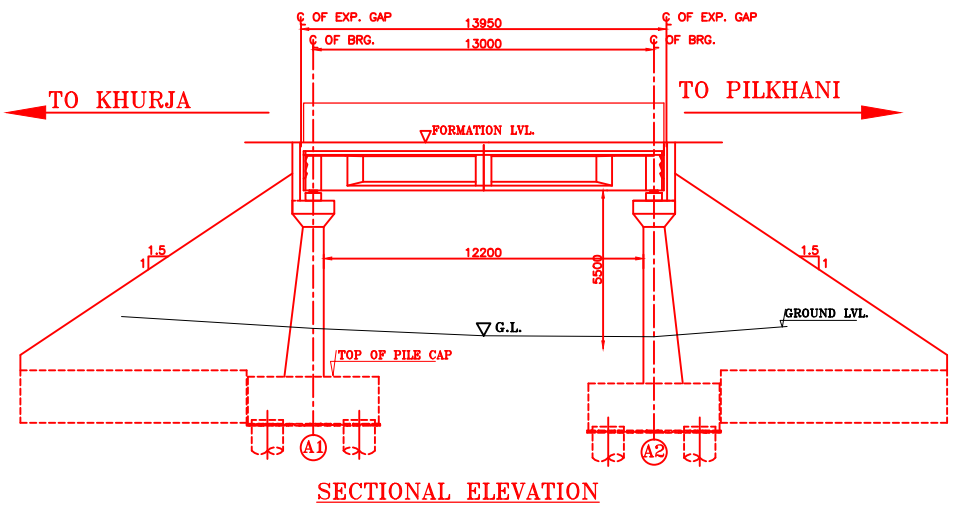


NOTES:-

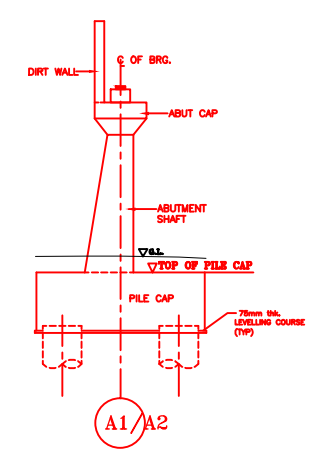
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - ii) IRS CONCRETE BRIDGE CODE.
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INDICATIVE DRAWING

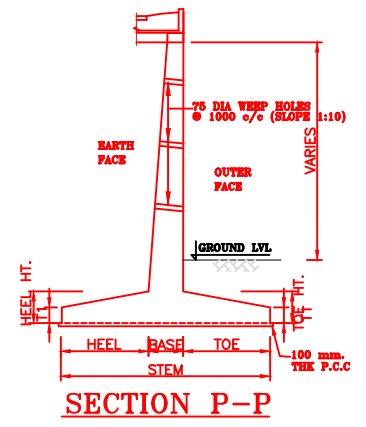
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 69 SPAN (2X61.0m) AT CH. 13841.917				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC69 SHEET 2 OF 2	R0



SECTIONAL ELEVATION



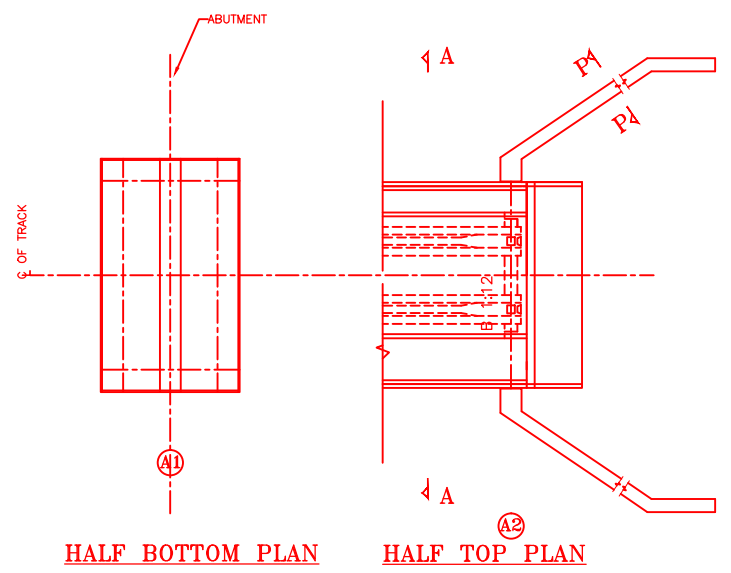
DETAIL OF ABUTMENT



SECTION P-P

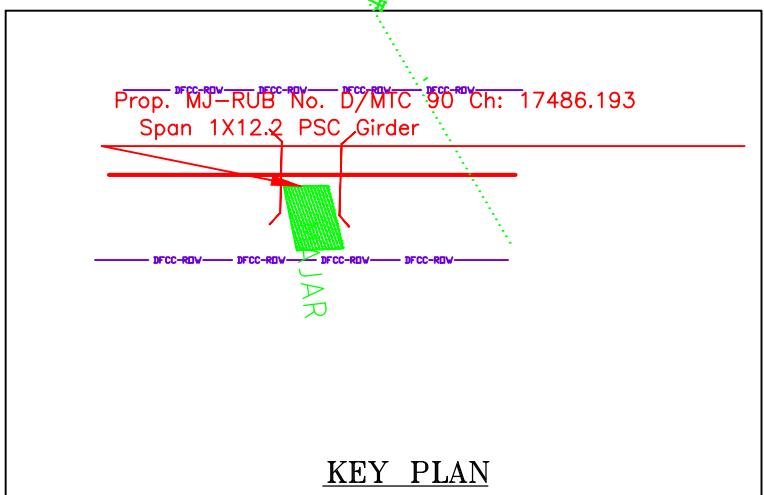
NOTES:-

- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
- a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
- LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
- HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
- ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
- SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
- TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
- MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
- THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
- IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
- IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
- THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
- THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
- WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
- STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
- WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
- CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
- DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
- THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

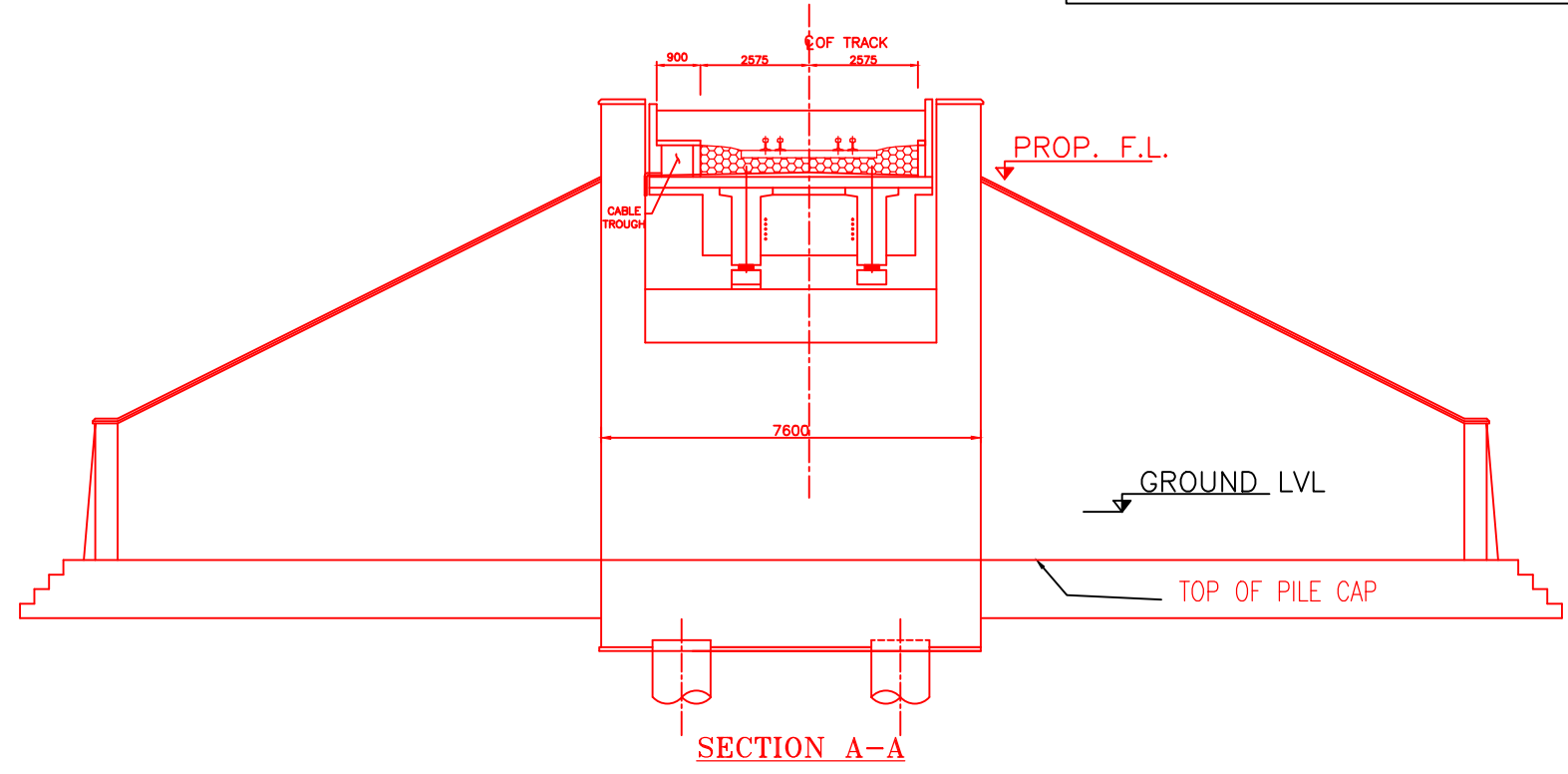


HALF BOTTOM PLAN

HALF TOP PLAN



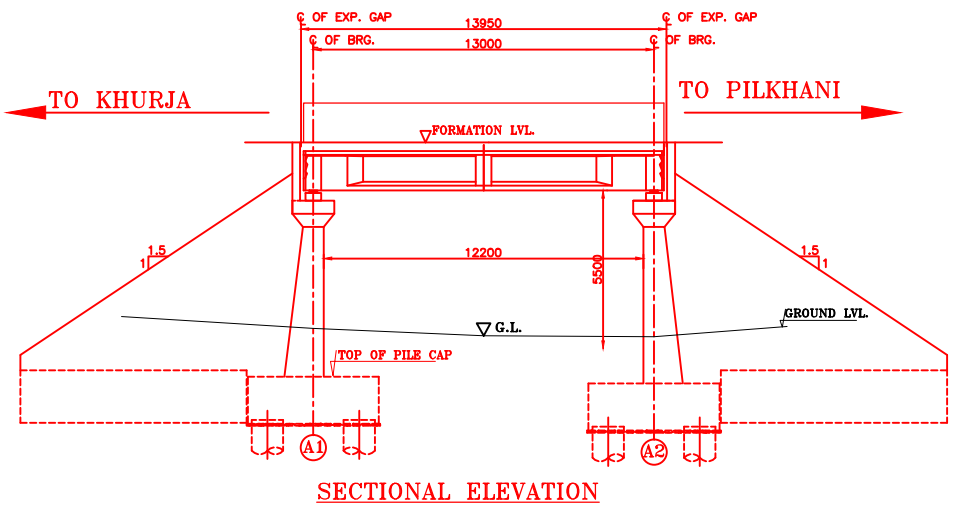
KEY PLAN



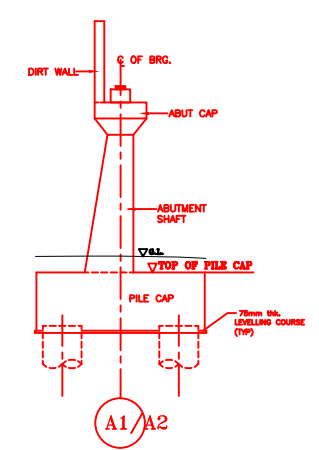
SECTION A-A

INDICATIVE DRAWING

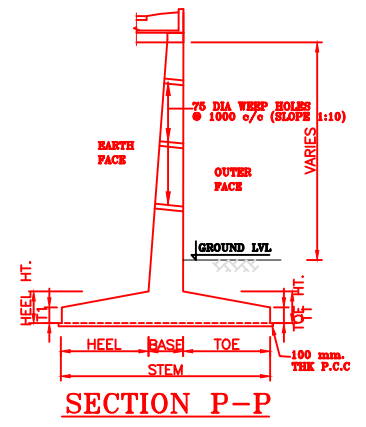
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
AECOM		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 90 SPAN (1X12.2m) AT CH. 17480.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC90	R0



SECTIONAL ELEVATION



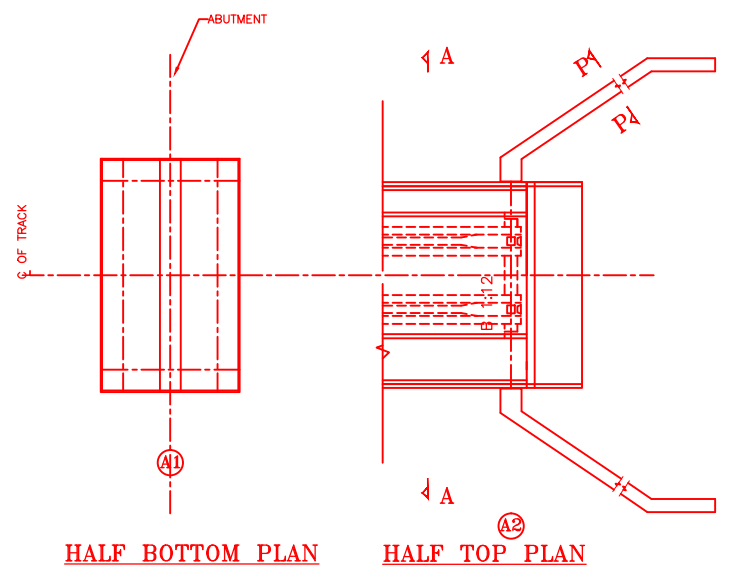
DETAIL OF ABUTMENT



SECTION P-P

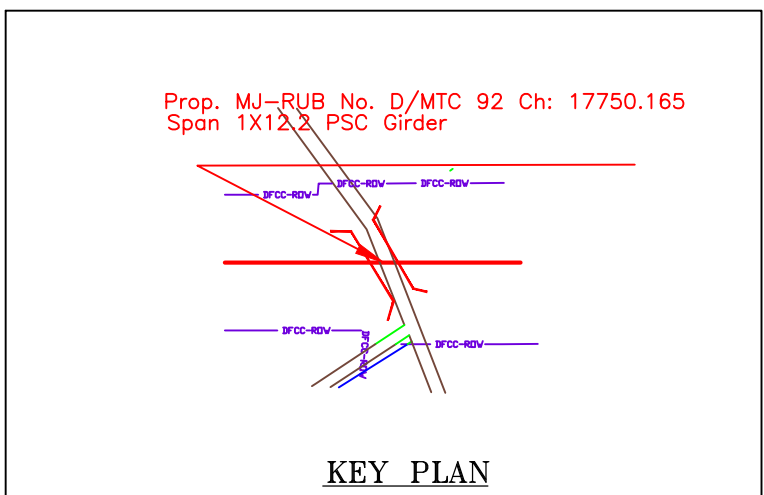
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
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14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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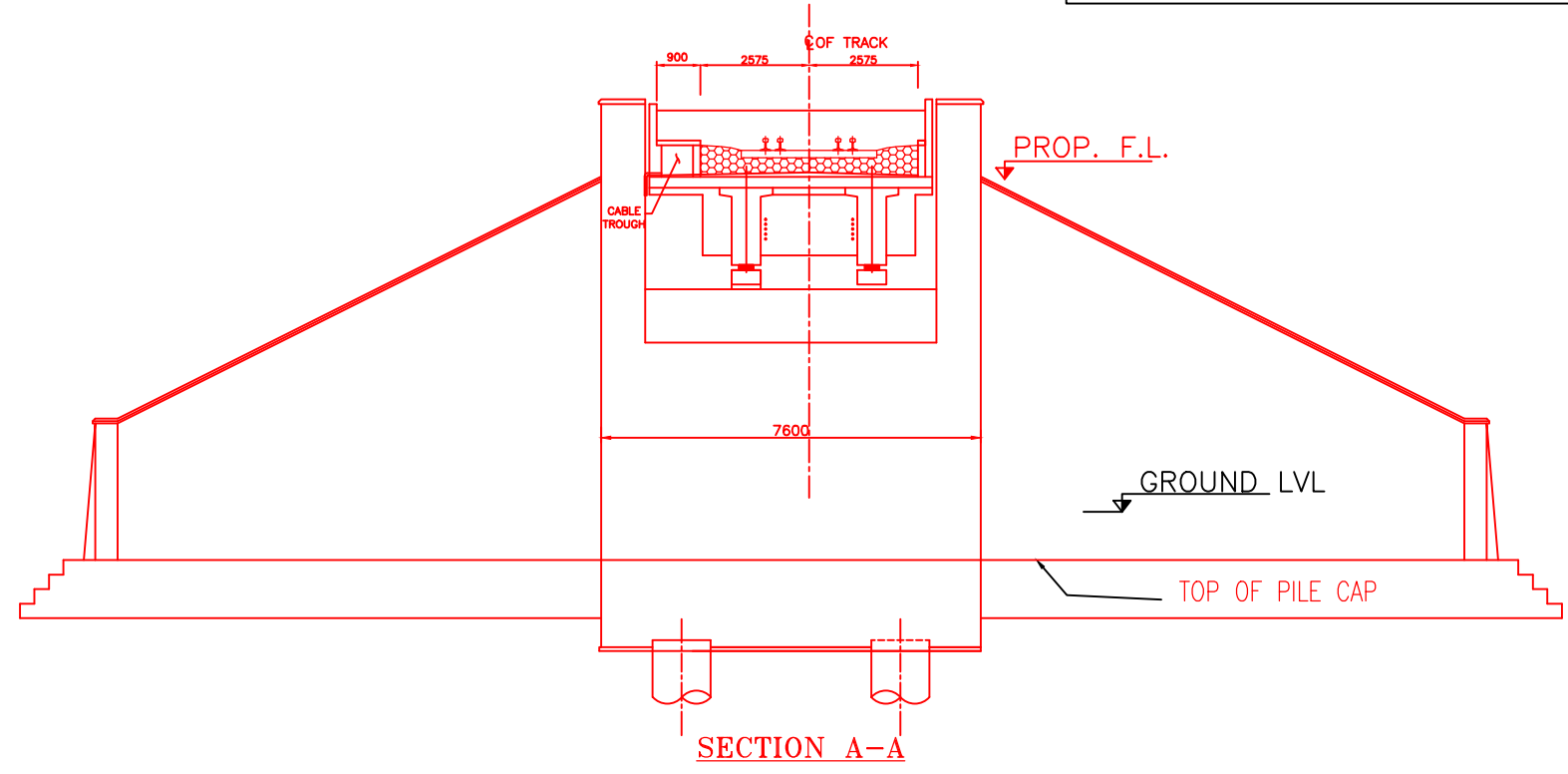


HALF BOTTOM PLAN

HALF TOP PLAN



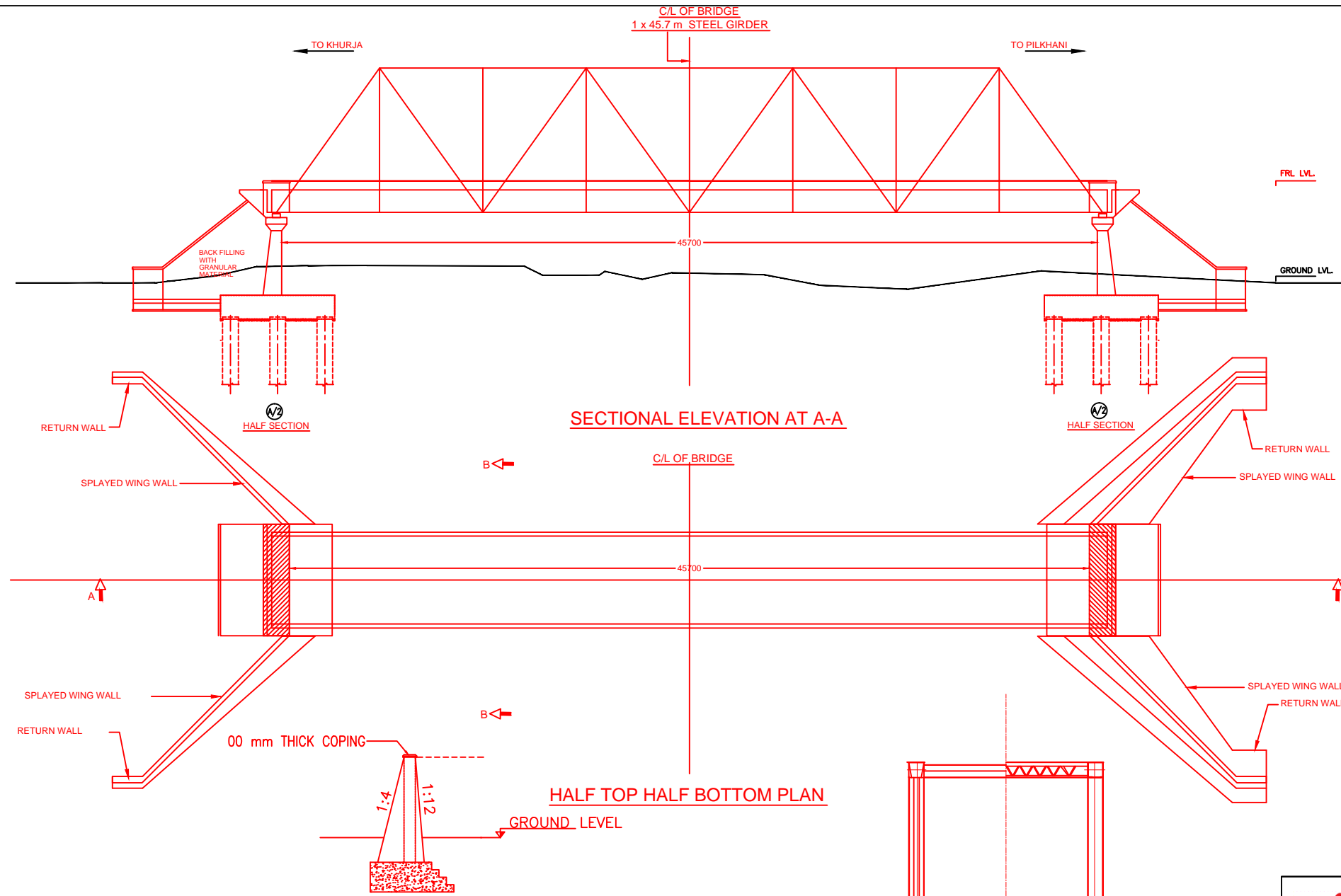
KEY PLAN



SECTION A-A

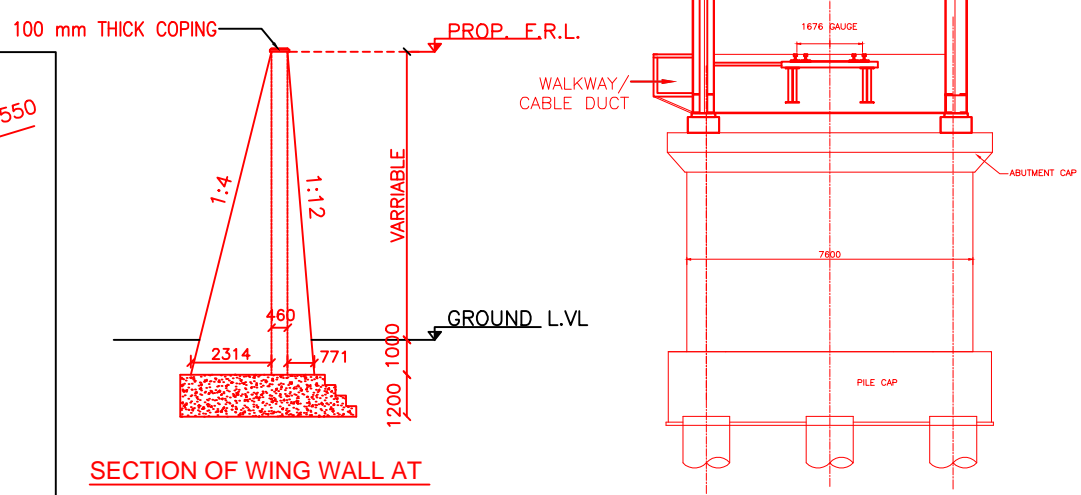
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR						
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 92 SPAN (1X12.2m) AT CH. 17750.165				
TITLE						
GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC92	R0



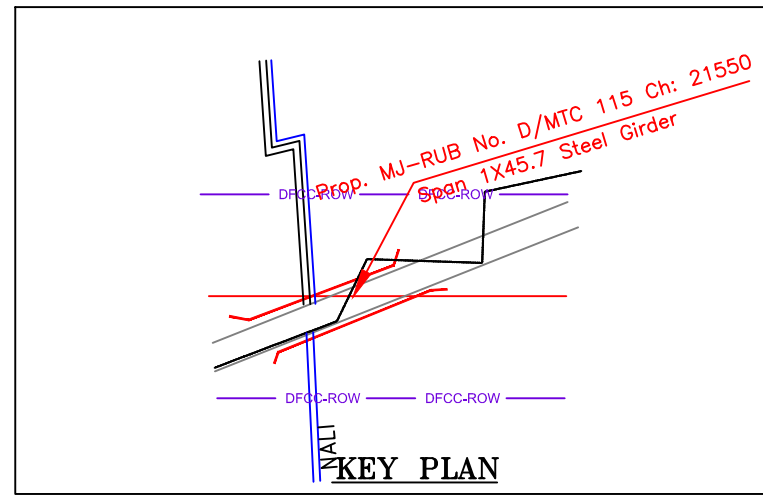
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
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 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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 - THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
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 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
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SECTION OF RETAINING WALL



SECTION OF WING WALL AT

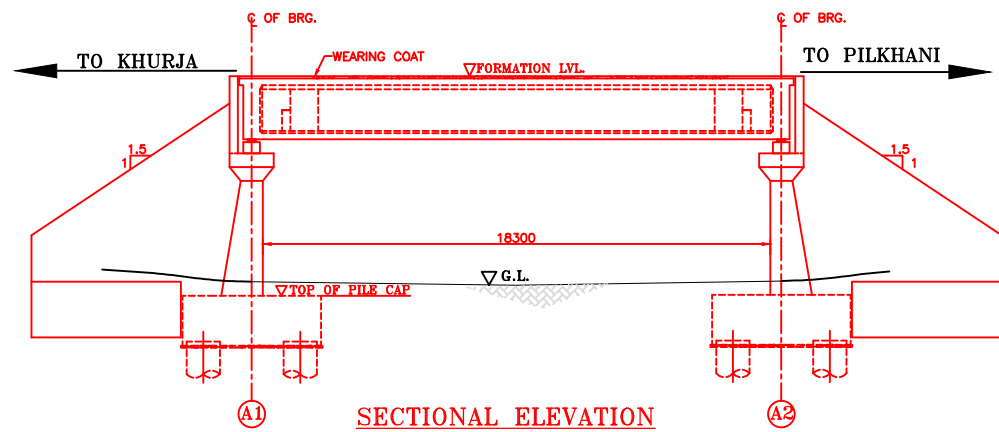
TYP. SEC. B-B



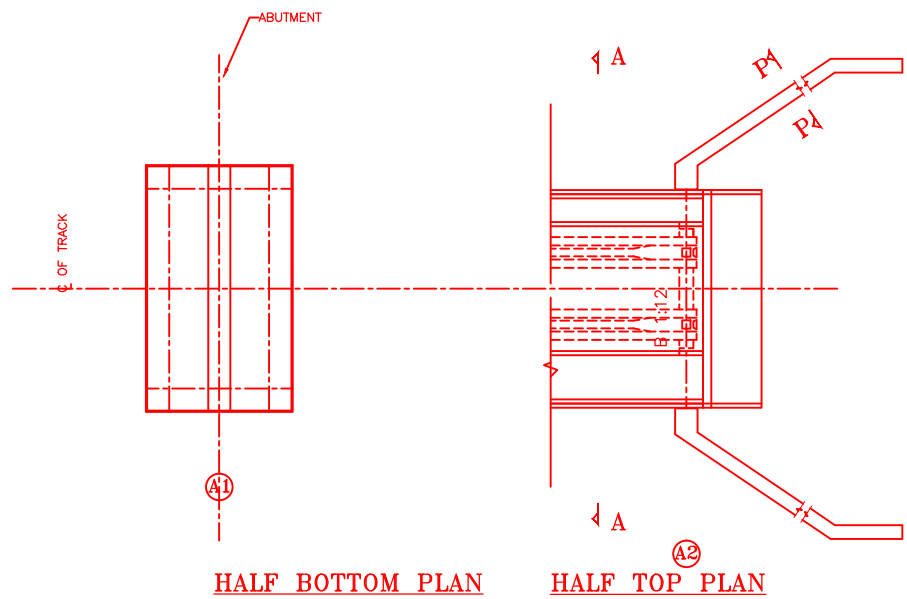
KEY PLAN

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.	
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)	
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC115 SPAN (1X45.7m) AT CH. 21550	
TITLE		GENERAL ARRANGEMENT DRAWING	
SCALE	DATE	DRAWN BY	CHECKED BY
NTS	JUNE 2016		
		APPROVED BY	DRG. NO.
			AECOM/303/MJR-RUB/D/MTC115
			REV.
			R0

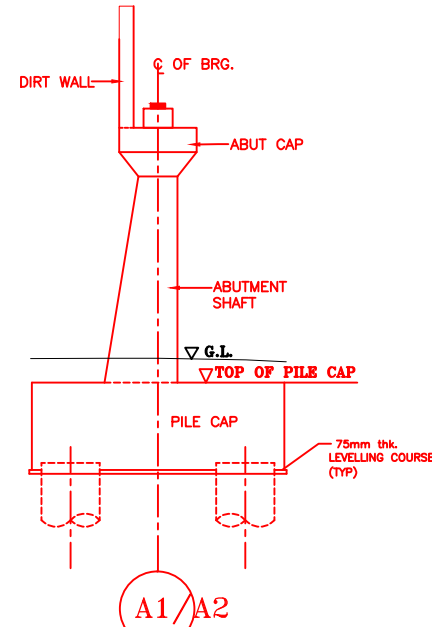


SECTIONAL ELEVATION

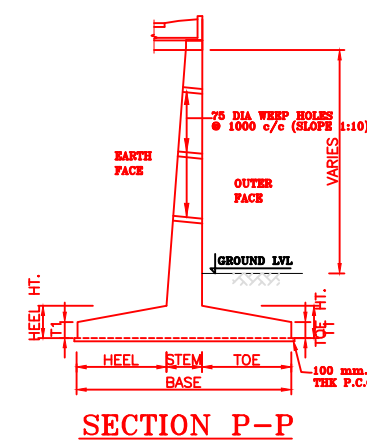
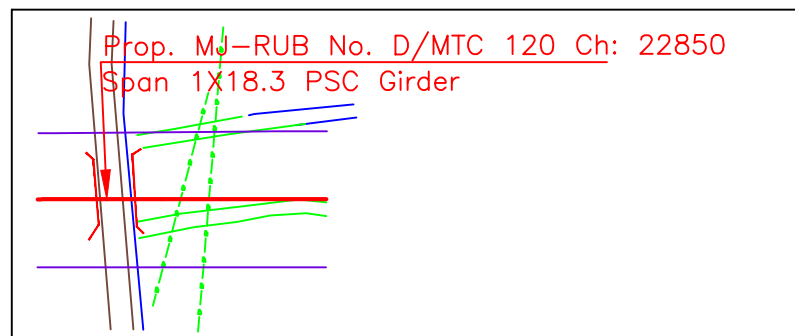


HALF BOTTOM PLAN

HALF TOP PLAN



DETAIL OF ABUTMENT

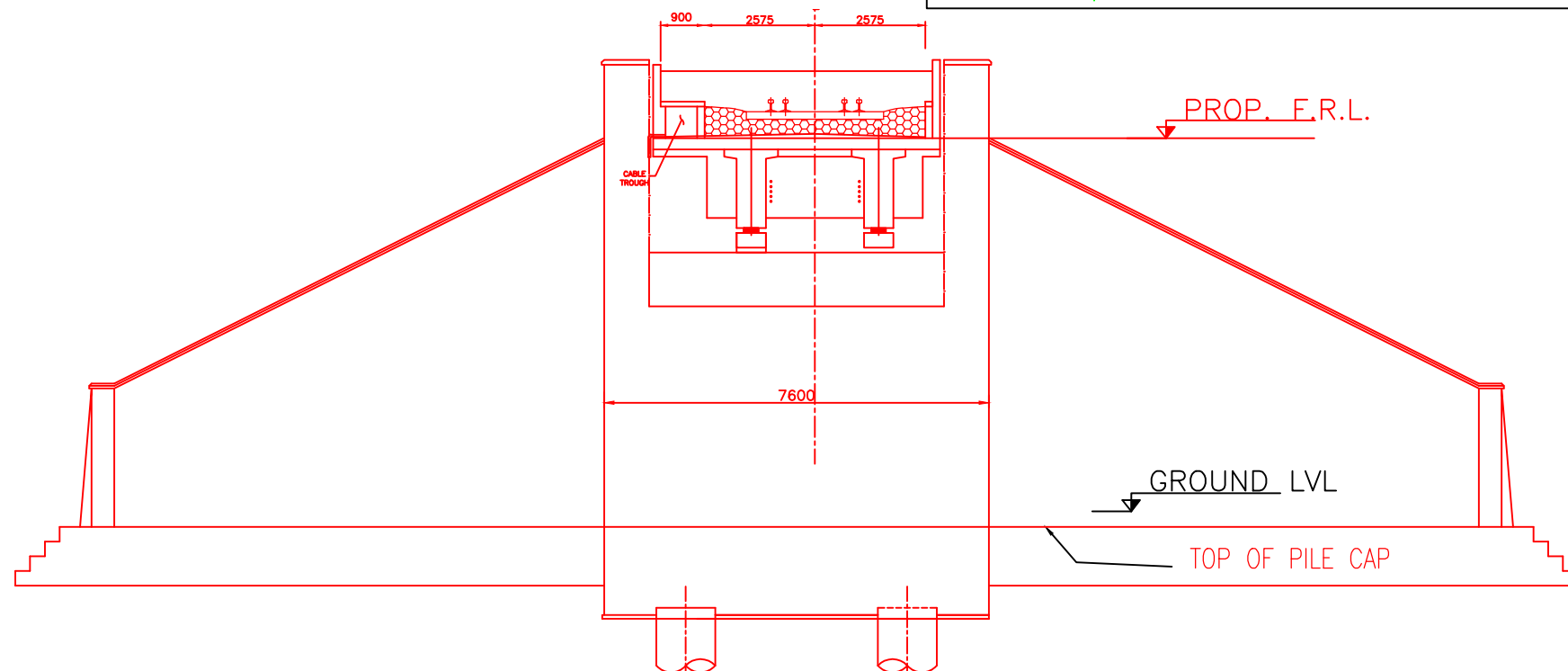


SECTION P-P

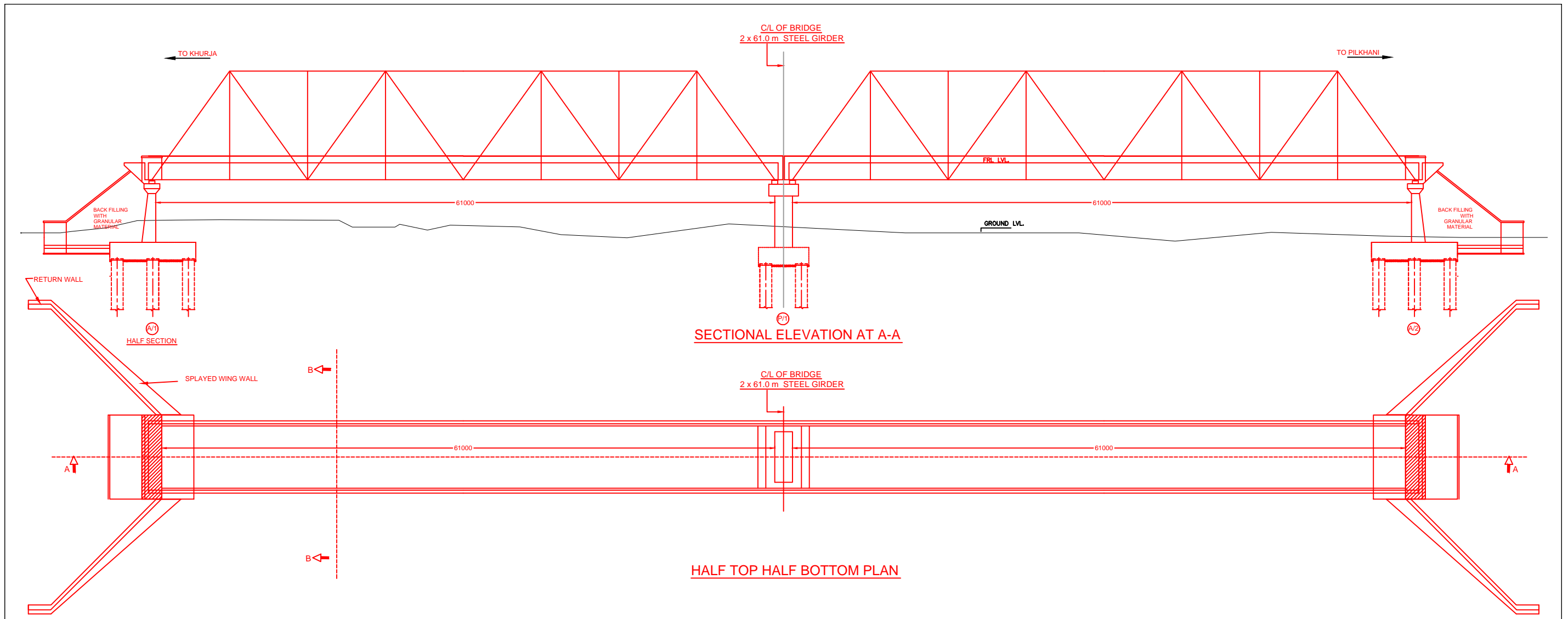
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
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5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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INDICATIVE DRAWING

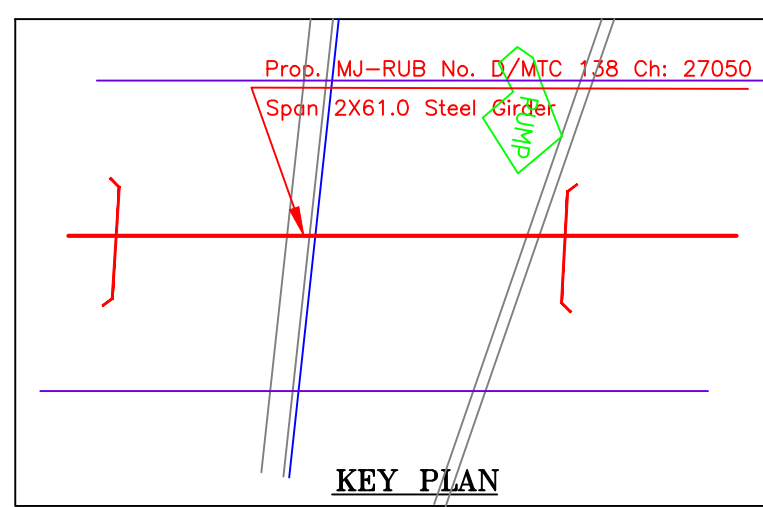


		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR RUB NO. D/MTC 120 SPAN (1X18.3m) AT CH. 22850				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC120	R0

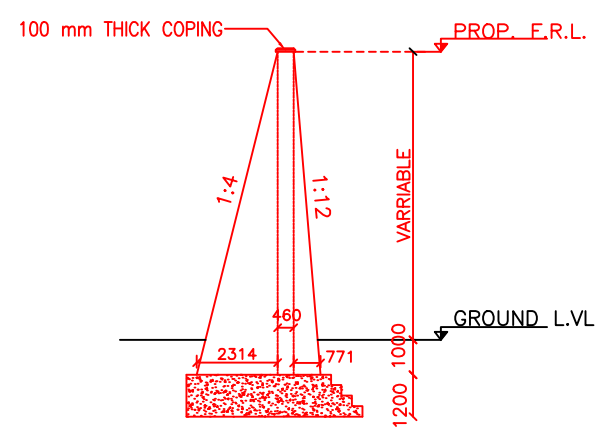


SECTIONAL ELEVATION AT A-A

HALF TOP HALF BOTTOM PLAN



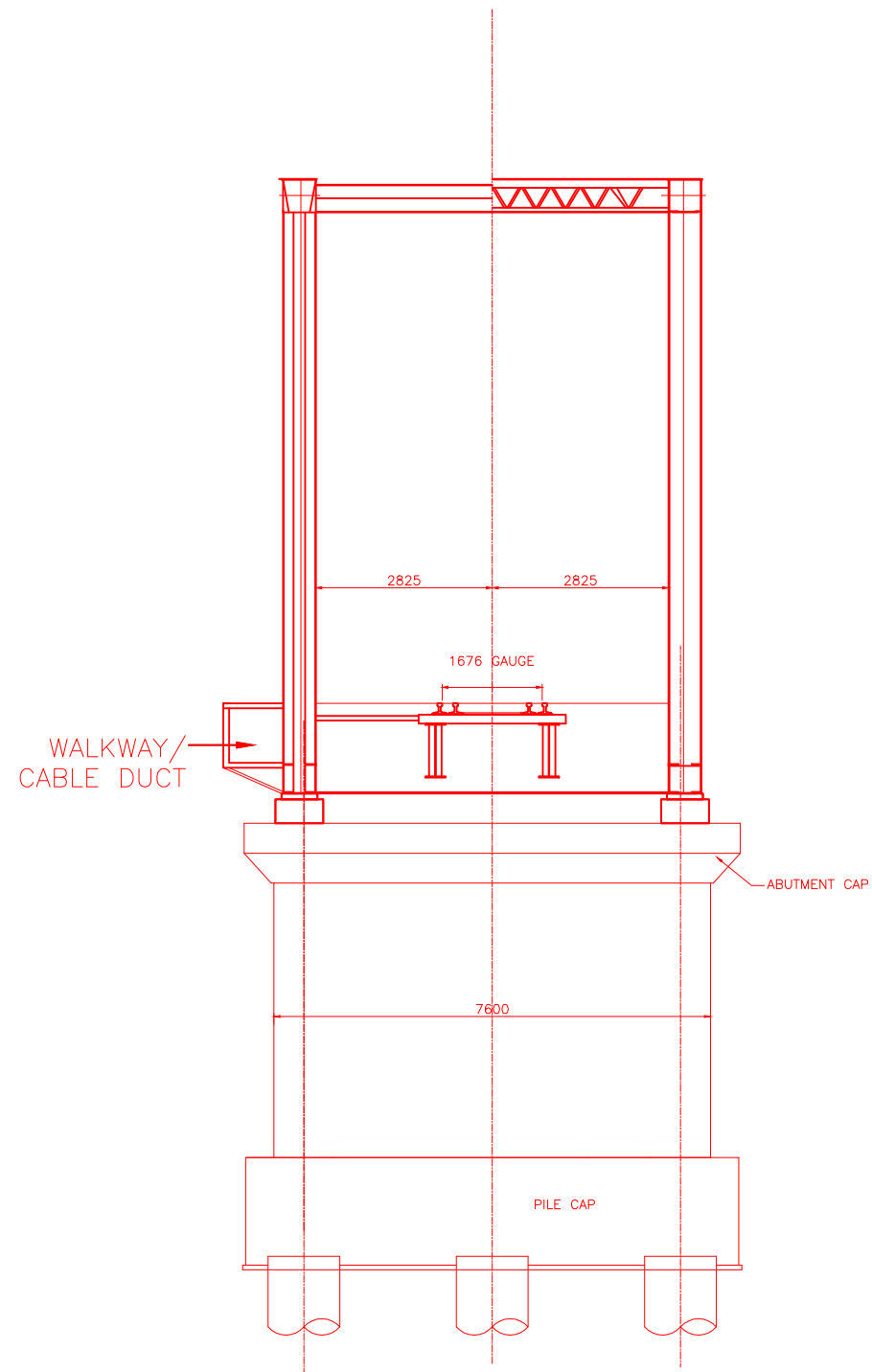
KEY PLAN



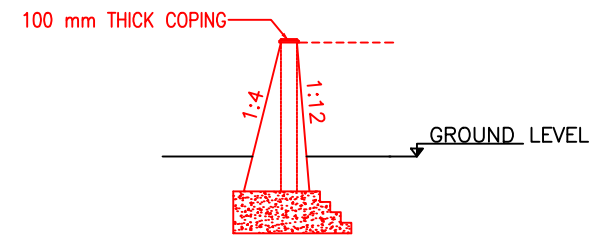
SECTION OF WING WALL

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 138 SPAN (2X61.0m) AT CH. 27050				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC138 SHEET 1 OF 2	R0



TYP. SEC.B-B





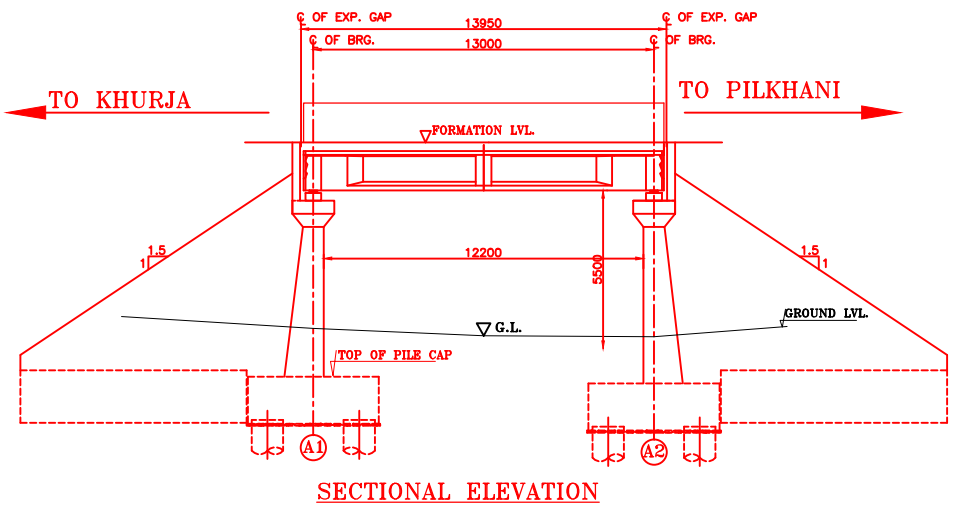
SECTION OF RETAINING WALL

NOTES:-

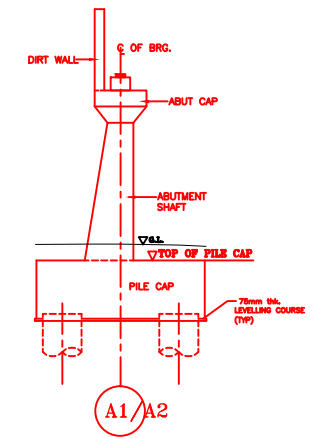
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

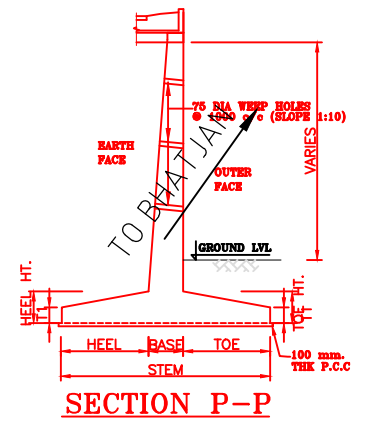
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 138 SPAN (2X61.0m) AT CH. 27050				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC138 SHEET 2 OF 2	R0



SECTIONAL ELEVATION



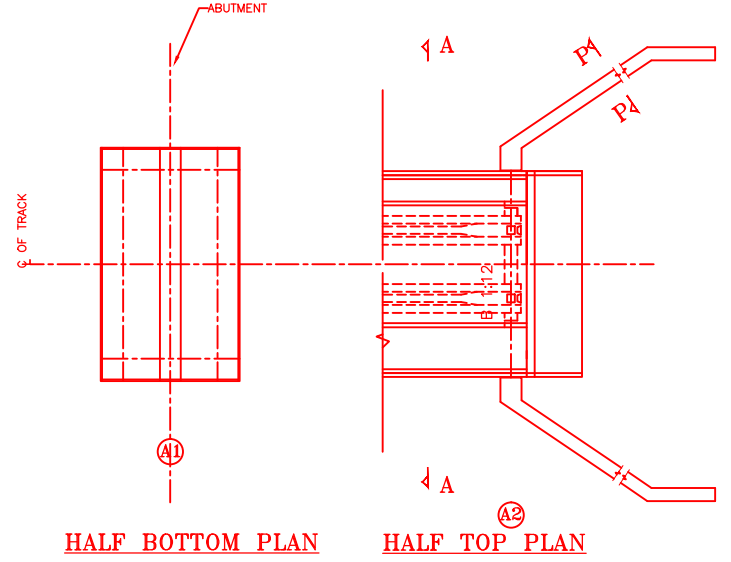
DETAIL OF ABUTMENT



SECTION P-P

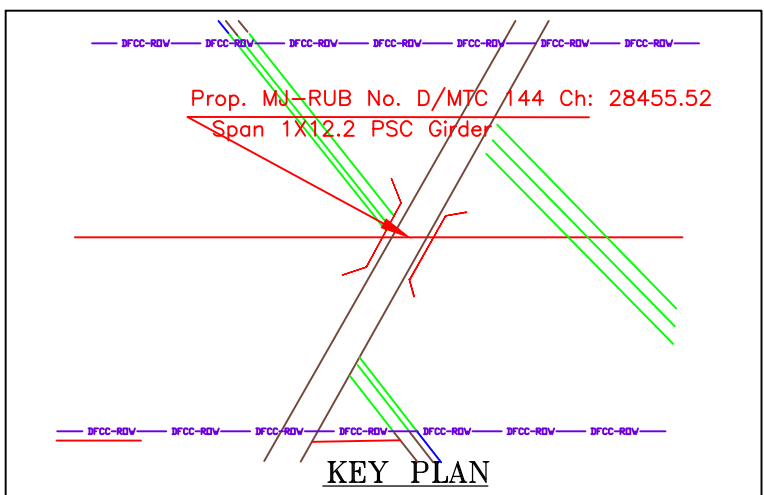
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF P.S.C.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. VEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

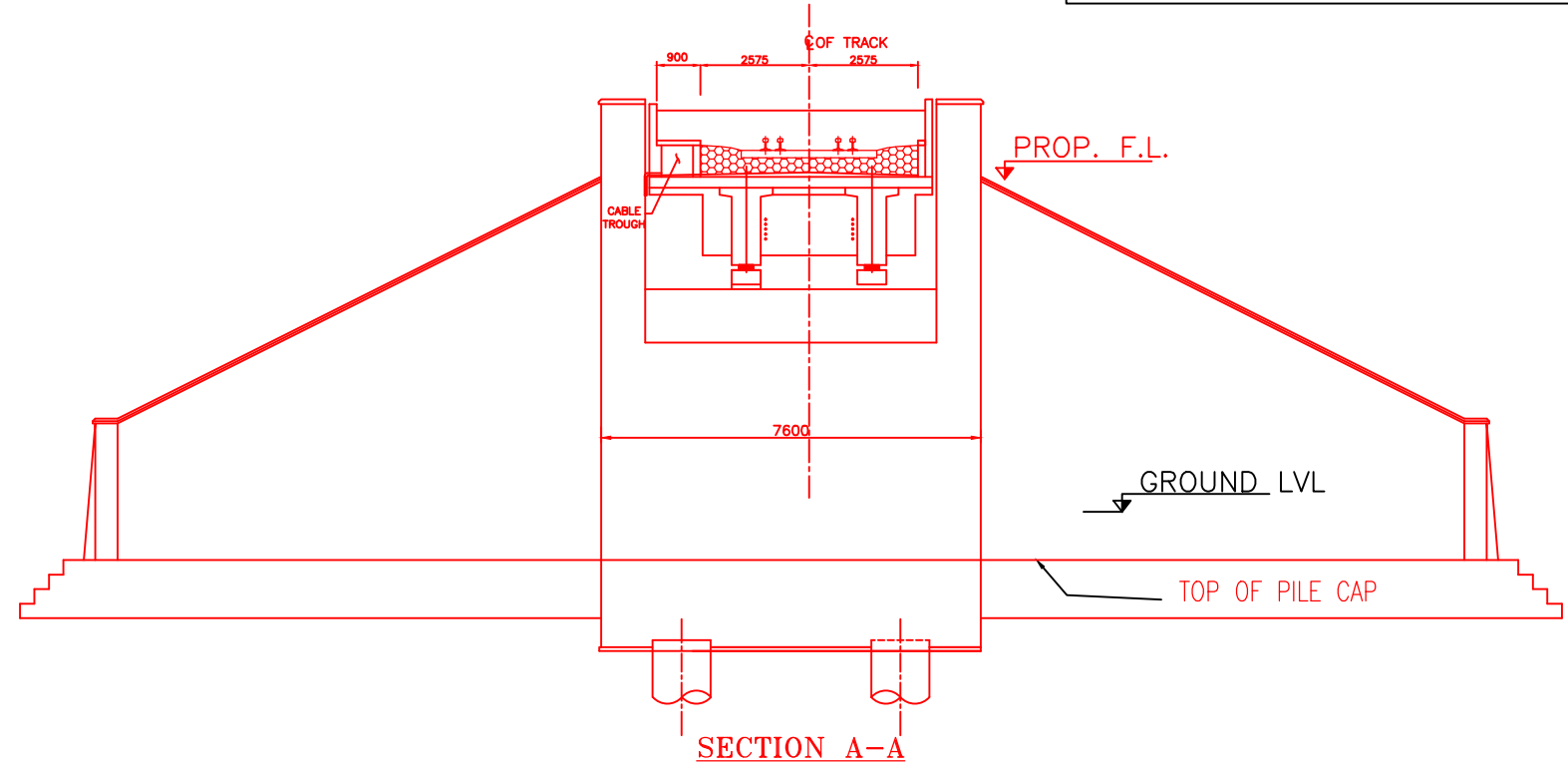


HALF BOTTOM PLAN

HALF TOP PLAN



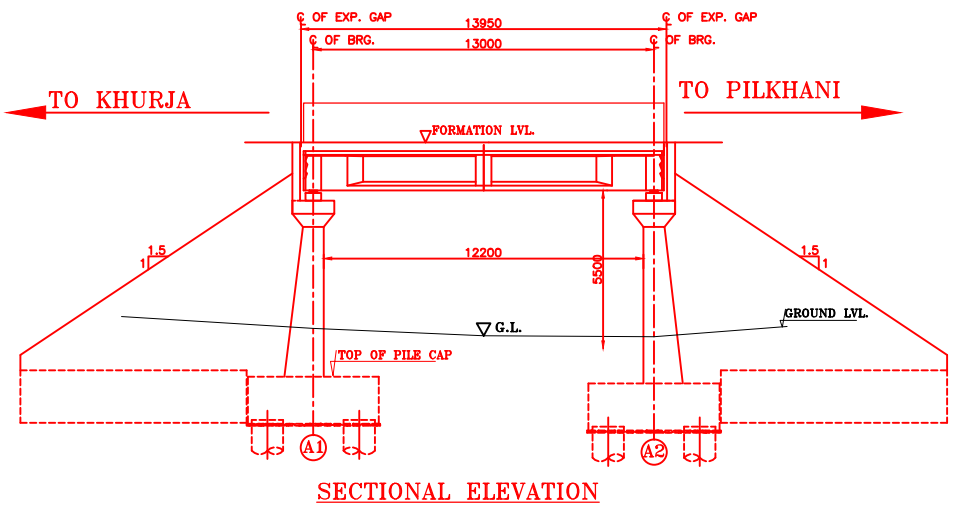
KEY PLAN



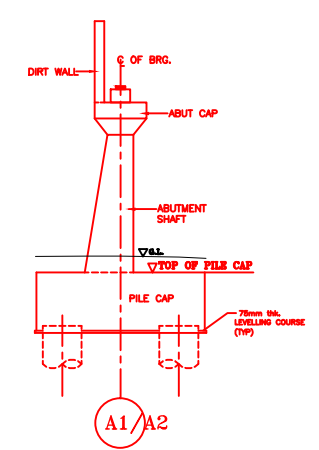
SECTION A-A

INDICATIVE DRAWING

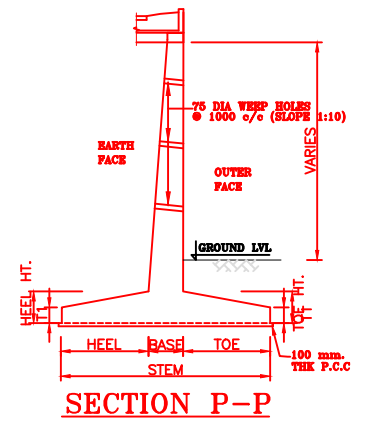
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 144 SPAN (1X12.2m) AT CH. 28455.520				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC144	R0



SECTIONAL ELEVATION



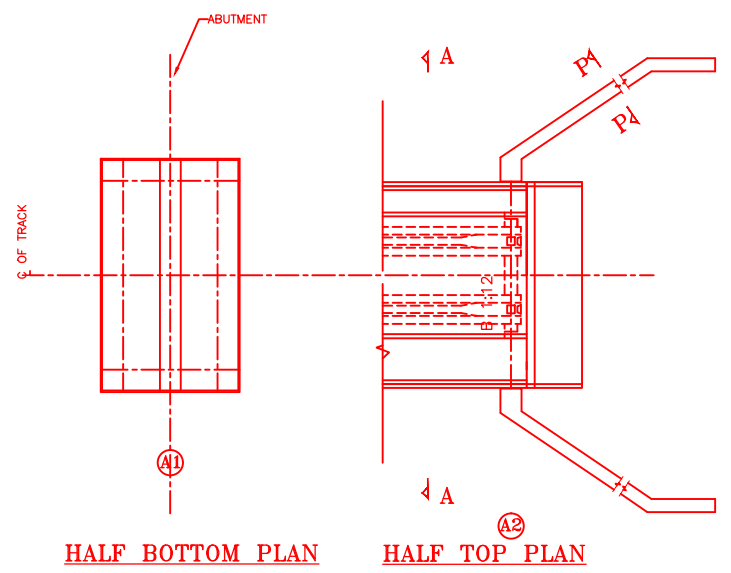
DETAIL OF ABUTMENT



SECTION P-P

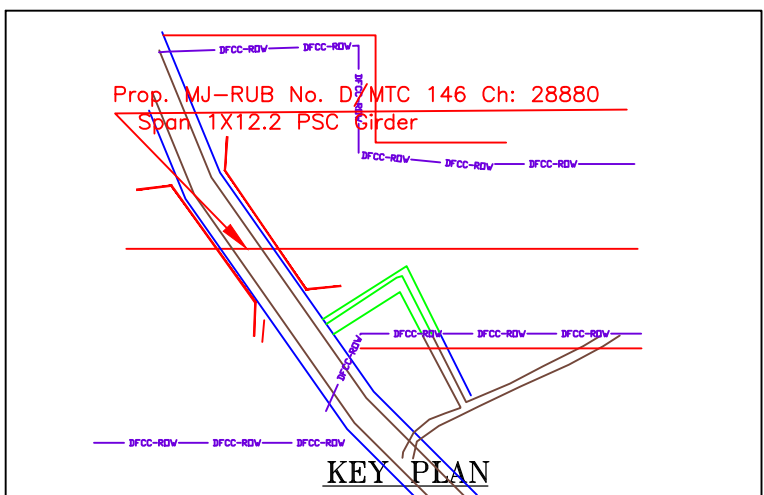
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. VEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

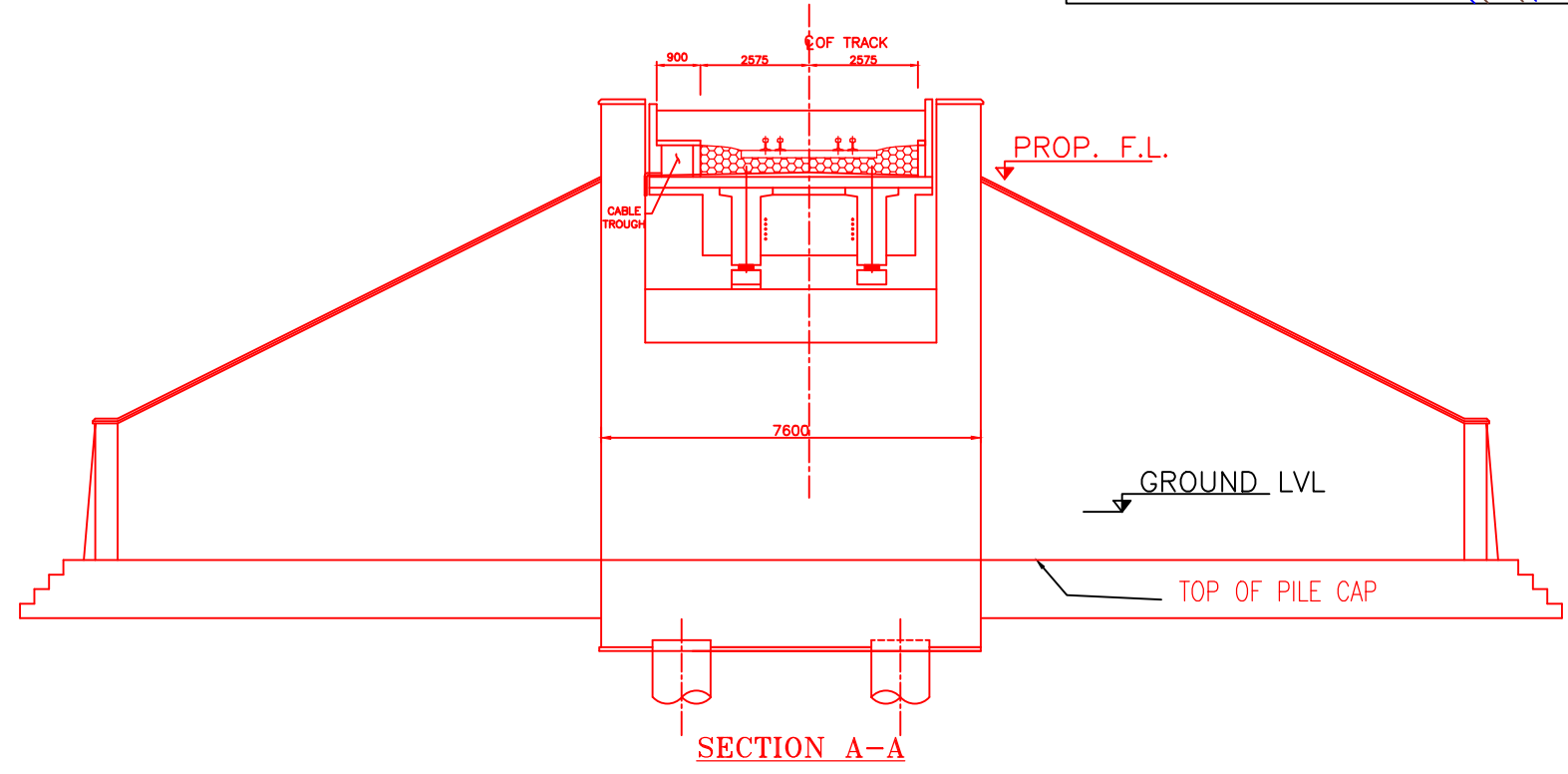


HALF BOTTOM PLAN

HALF TOP PLAN



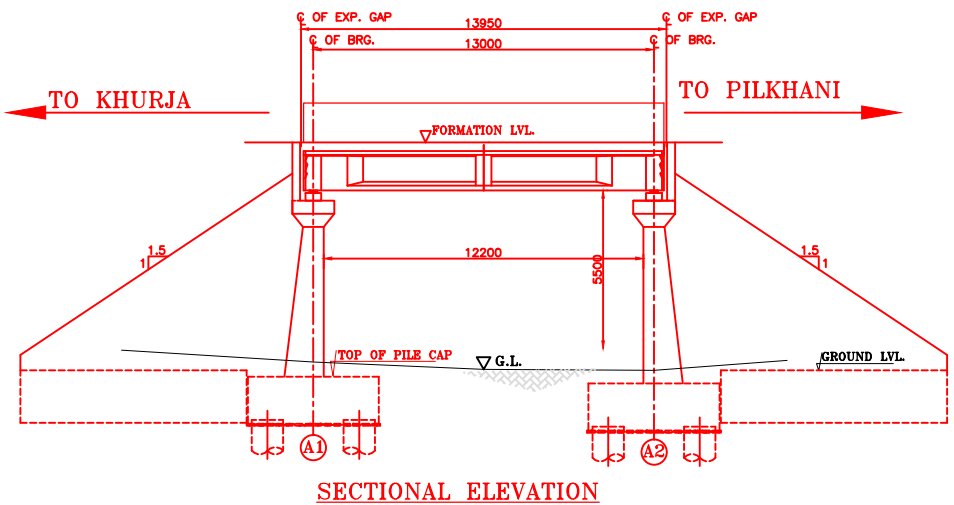
KEY PLAN



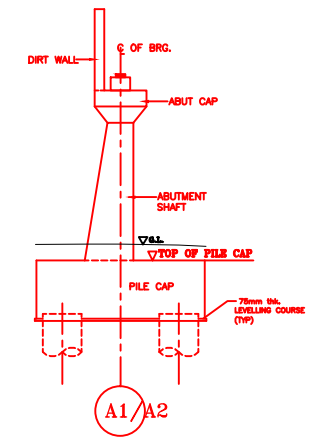
SECTION A-A

INDICATIVE DRAWING

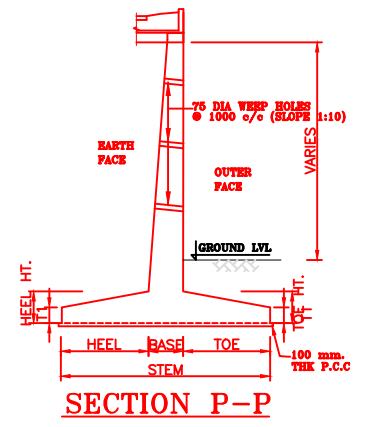
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 146 SPAN (1X12.2m) AT CH. 28880.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC146	R0



SECTIONAL ELEVATION



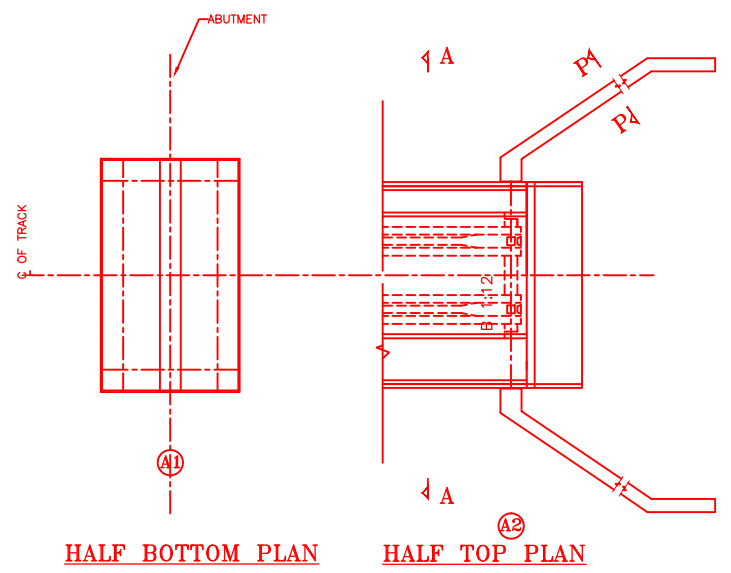
DETAIL OF ABUTMENT



SECTION P-P

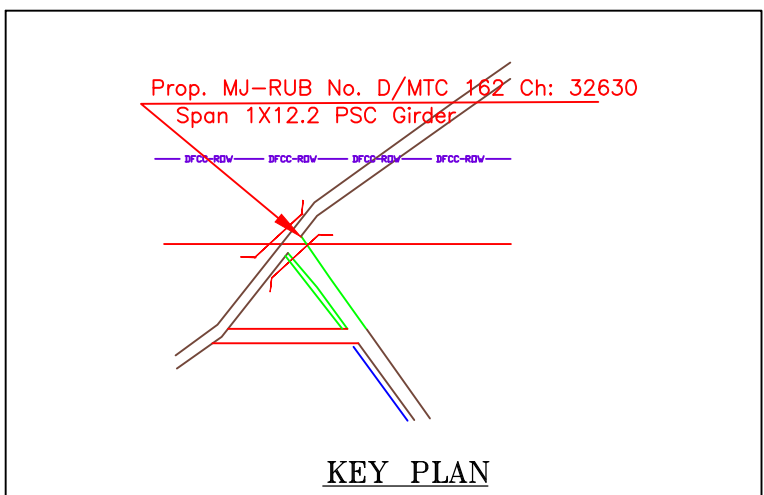
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

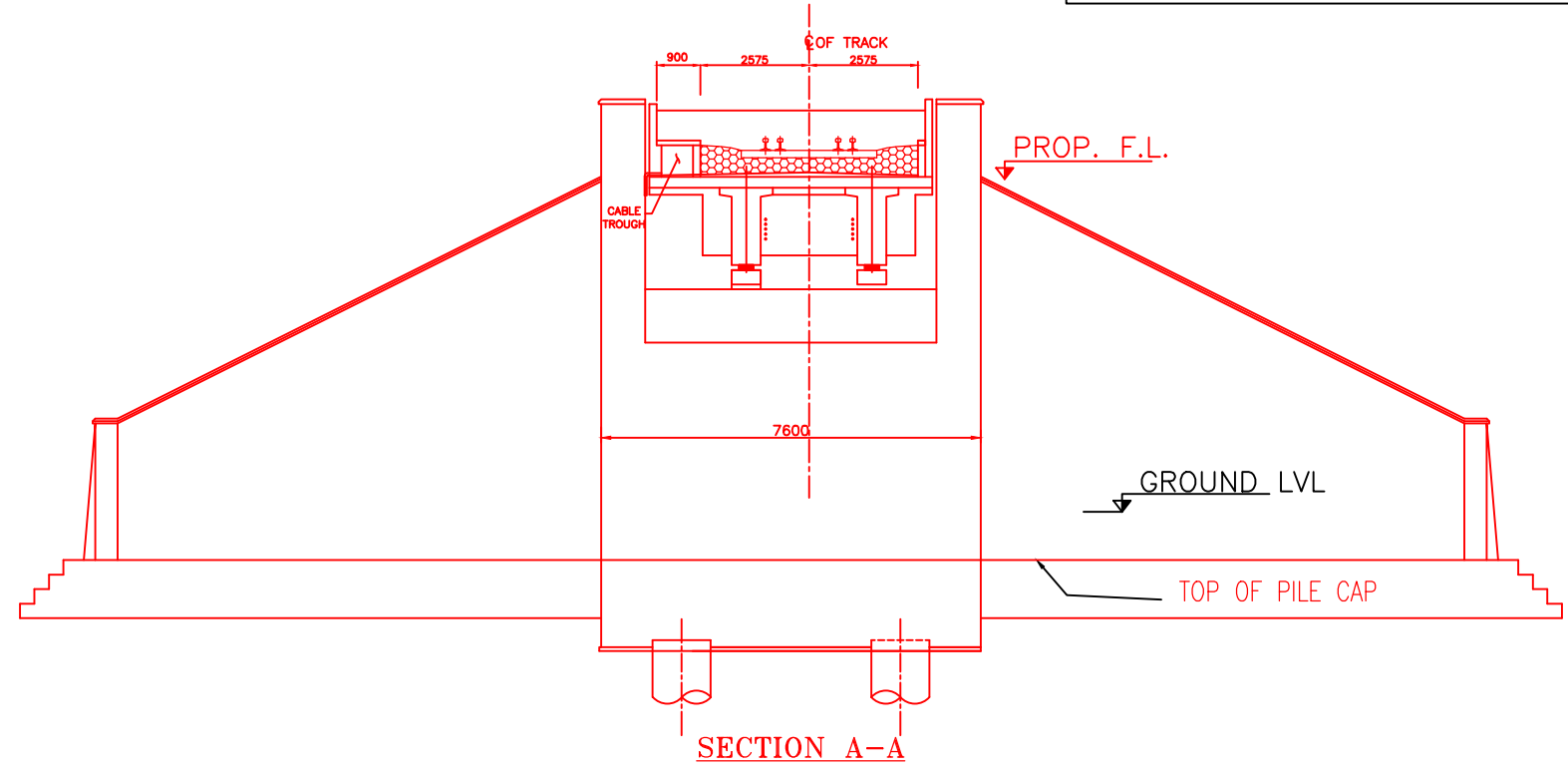


HALF BOTTOM PLAN

HALF TOP PLAN



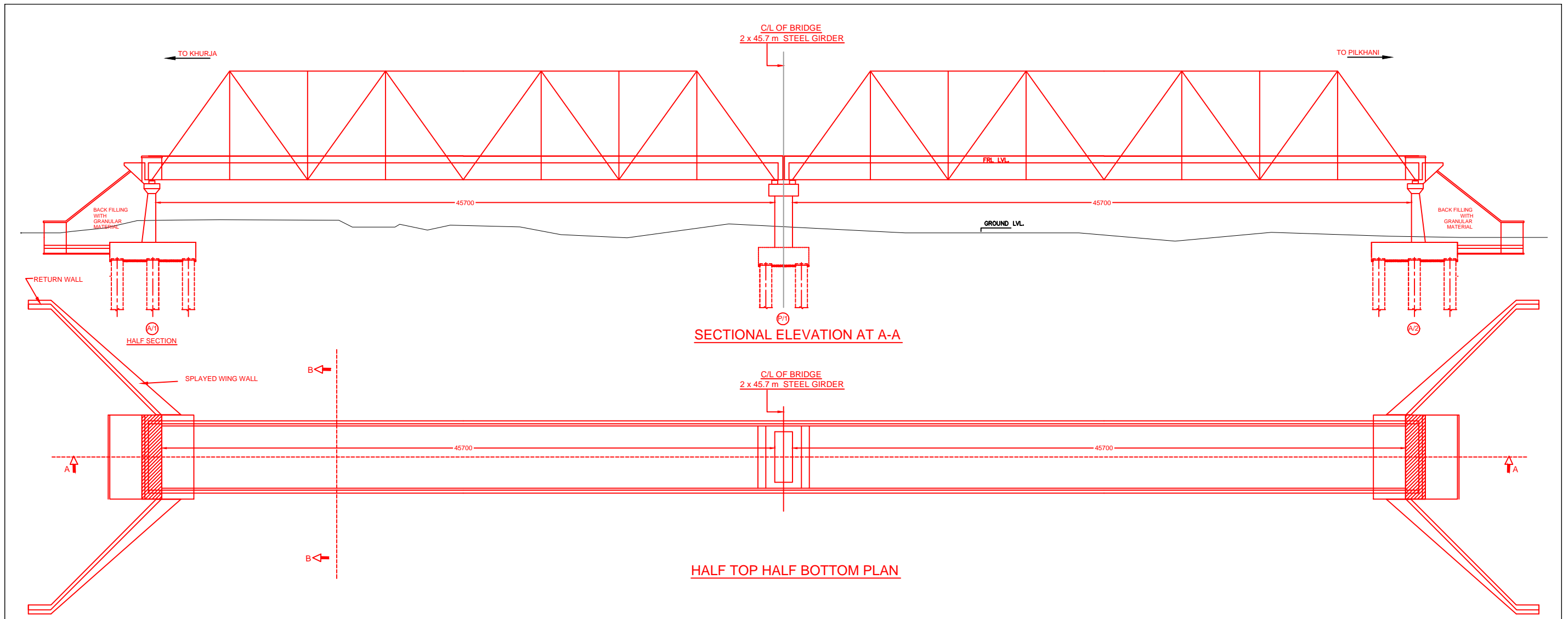
KEY PLAN



SECTION A-A

INDICATIVE DRAWING

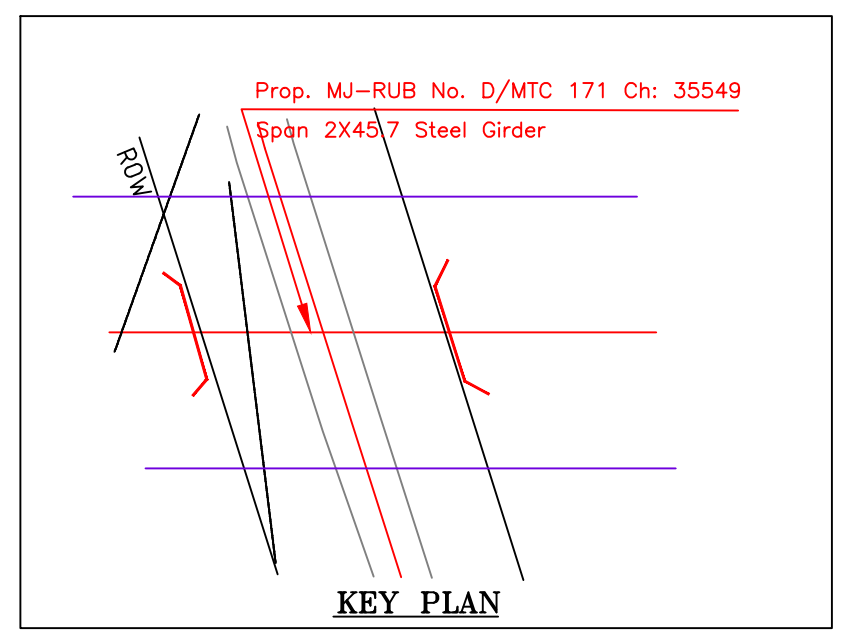
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MTC 162 SPAN (1X12.2m) AT CH. 32630.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC162	R0



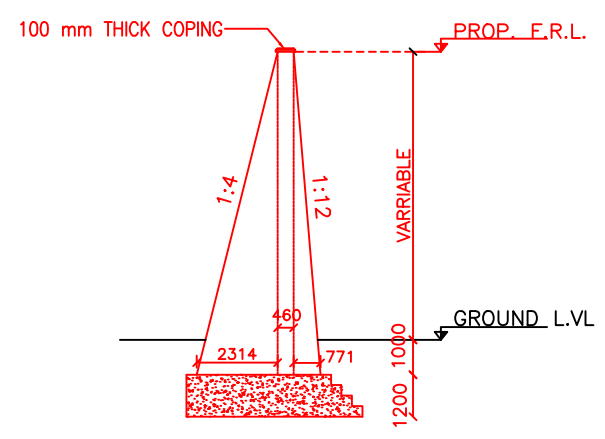
SECTIONAL ELEVATION AT A-A

HALF TOP HALF BOTTOM PLAN

INDICATIVE DRAWING

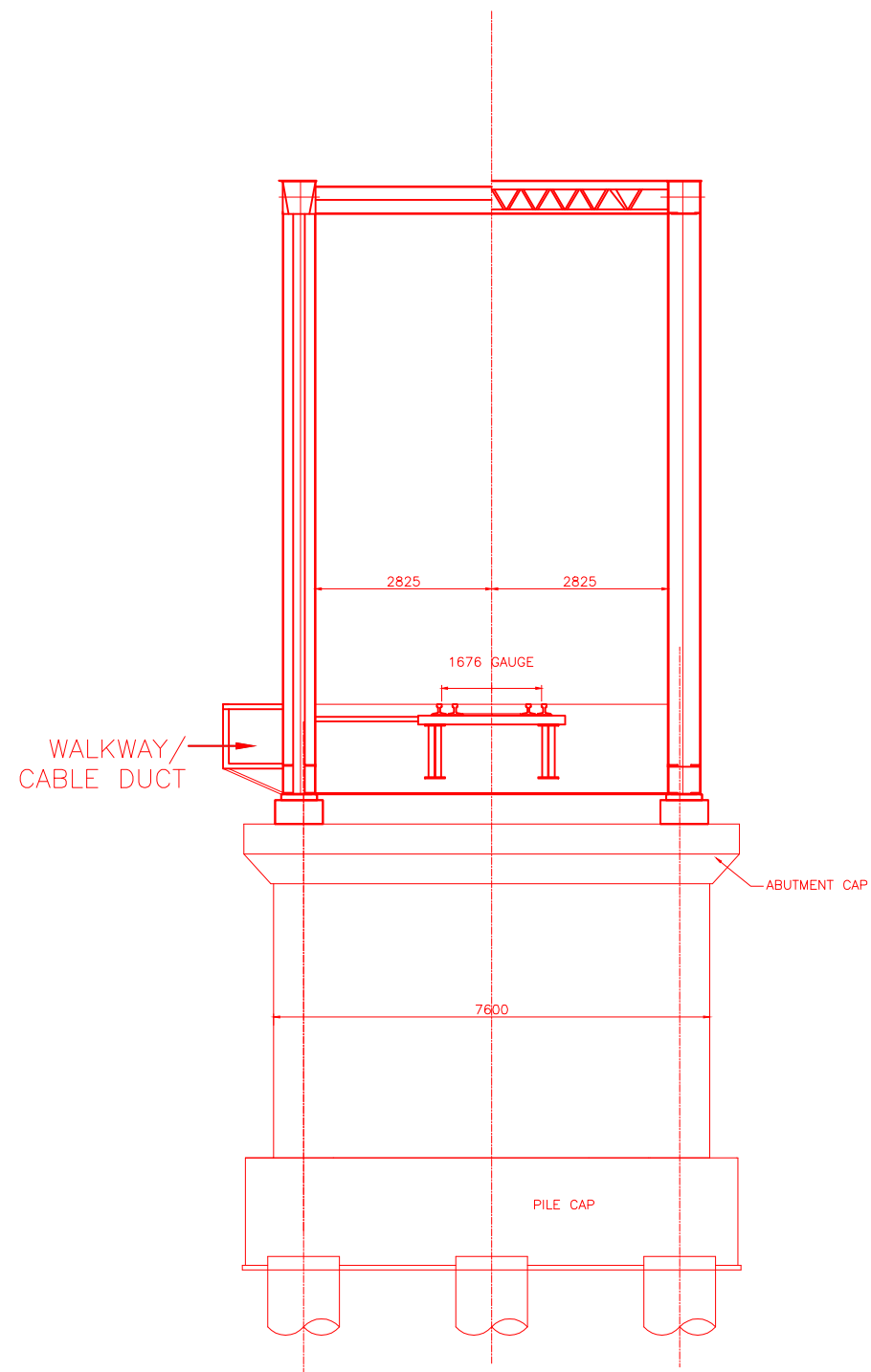


KEY PLAN

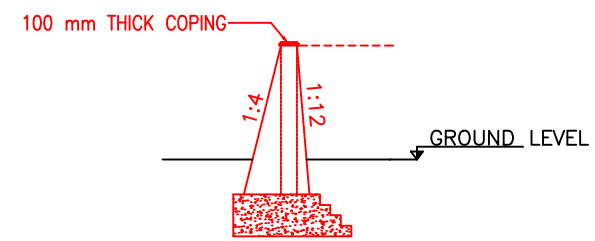


SECTION OF WING WALL AT

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 171 SPAN (2X45.7m) AT CH. 35549				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC171 SHEET 1 OF 2	R0



TYP. SEC.B-B





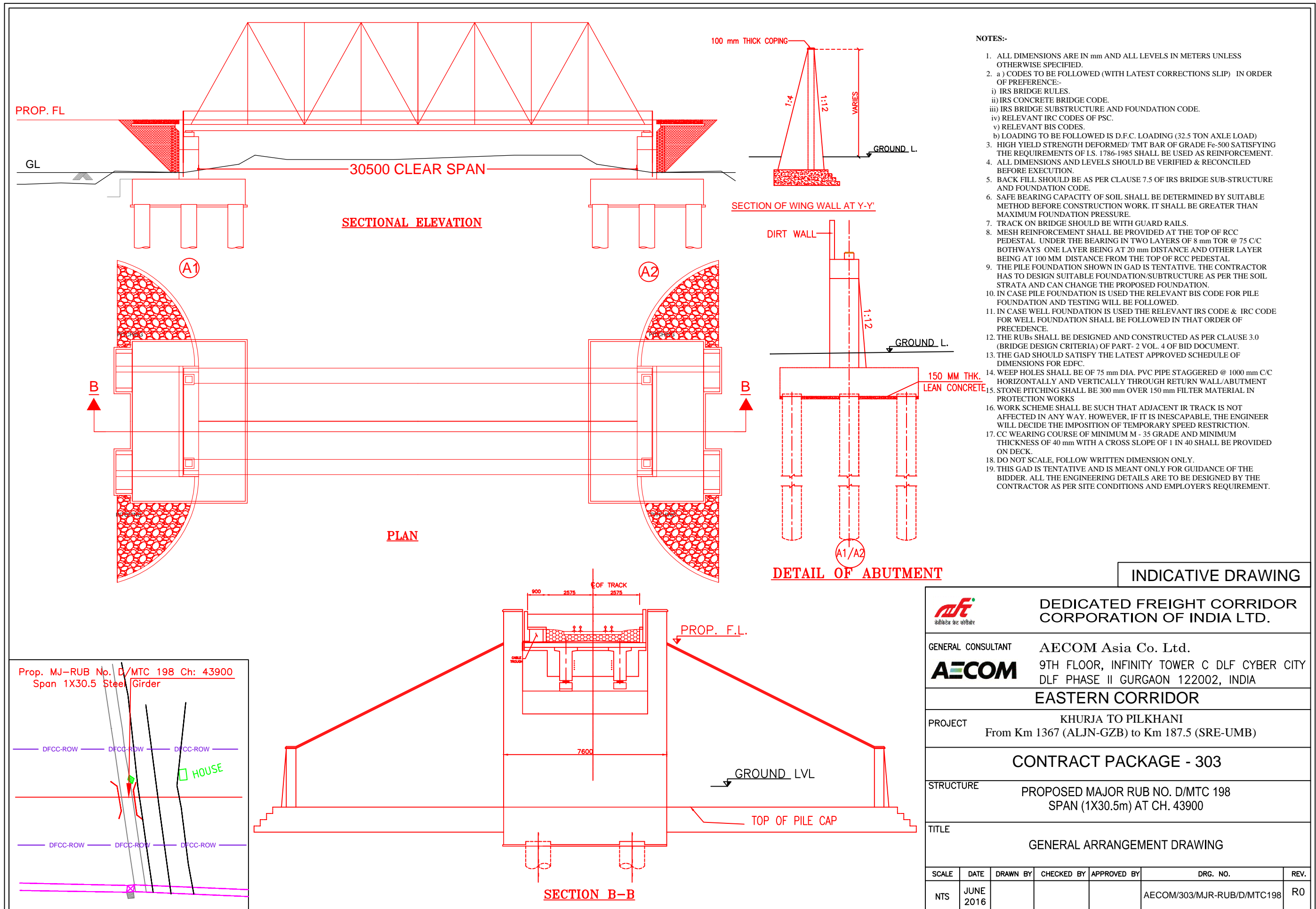
SECTION OF RETAINING WALL

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
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14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
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17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

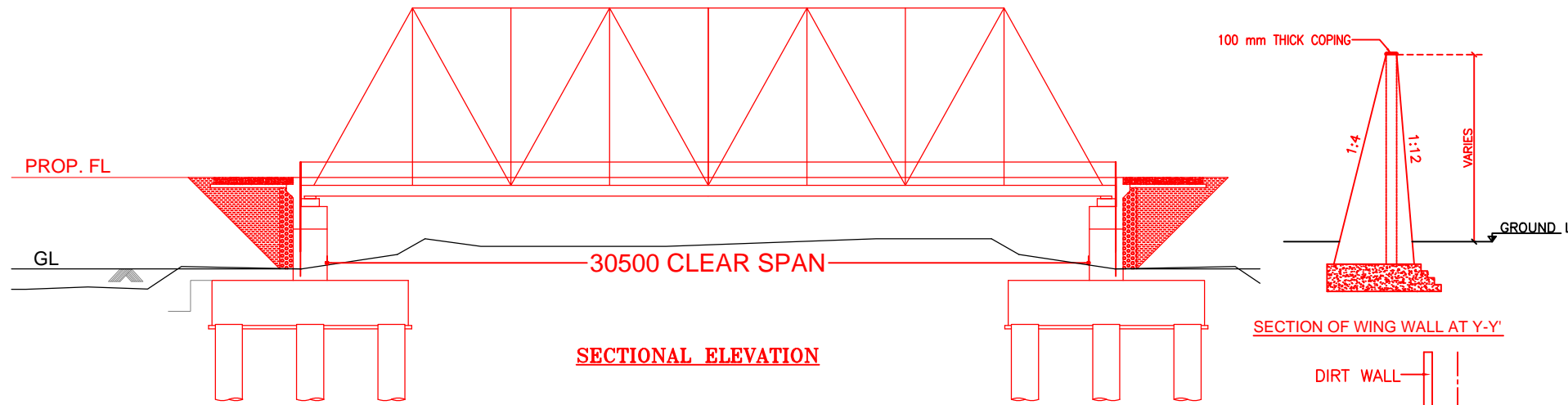
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 171 SPAN (2X45.7m) AT CH. 35549				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC171 SHEET 2 OF 2	R0



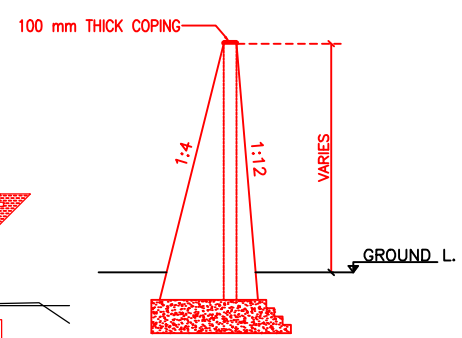
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 - DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

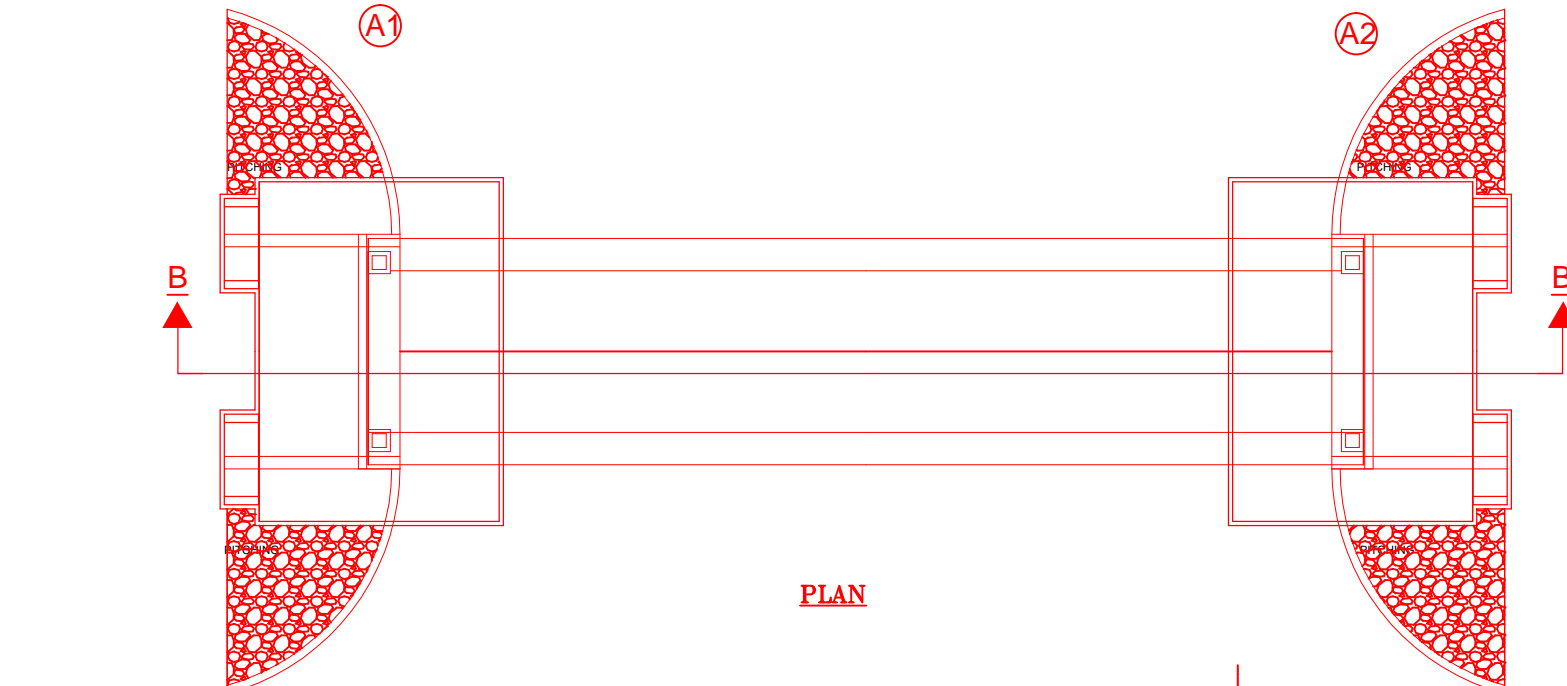
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 198 SPAN (1X30.5m) AT CH. 43900				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC198	R0



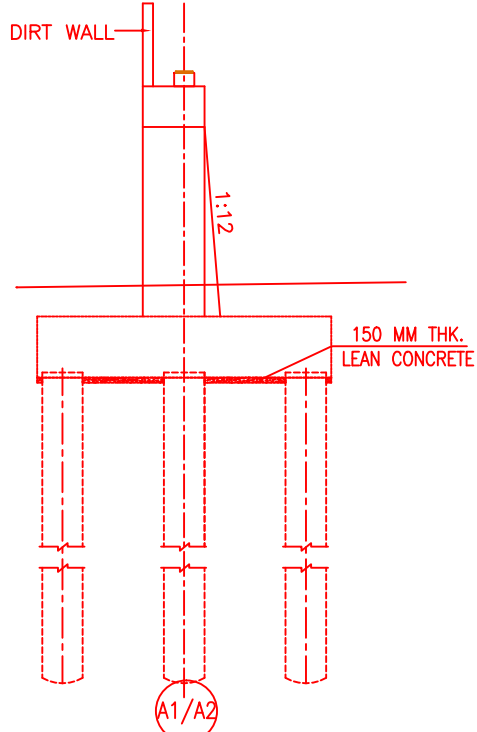
SECTIONAL ELEVATION



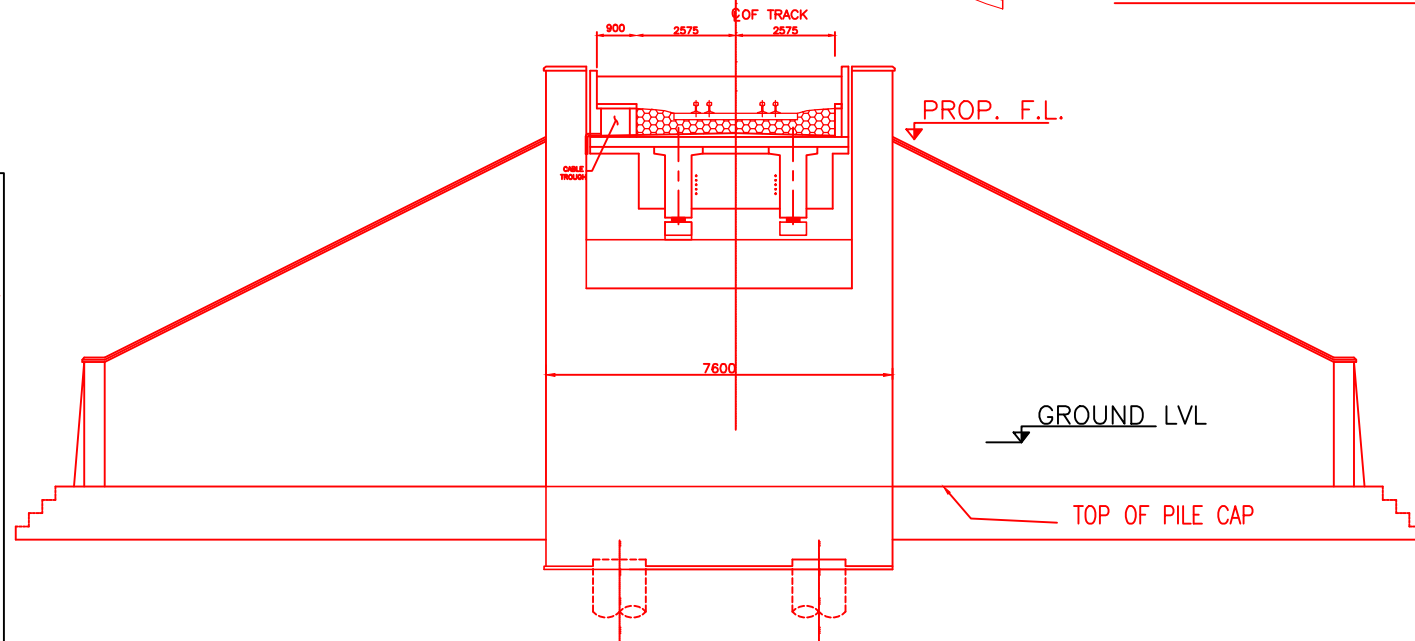
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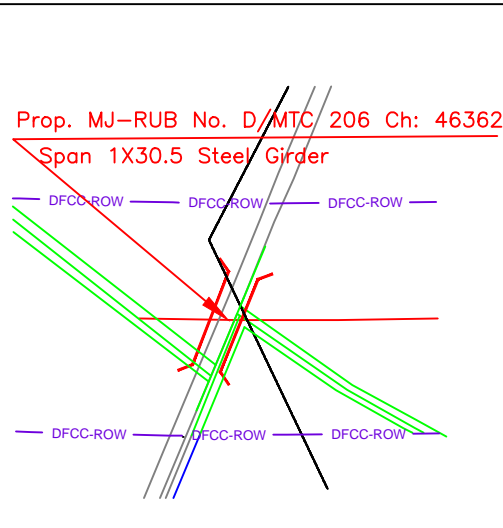
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DETAIL OF ABUTMENT



SECTION B-B

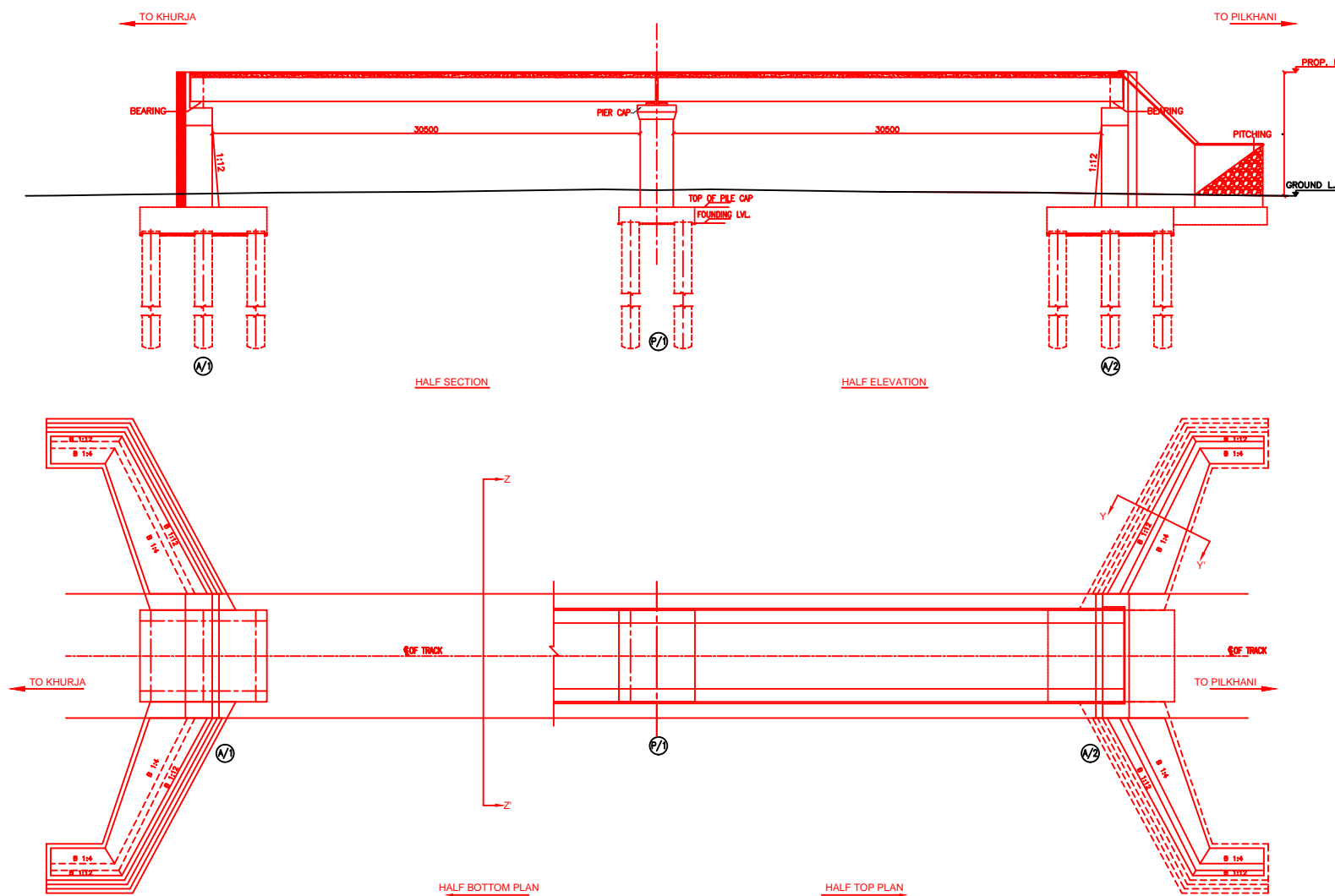


NOTES:-

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 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

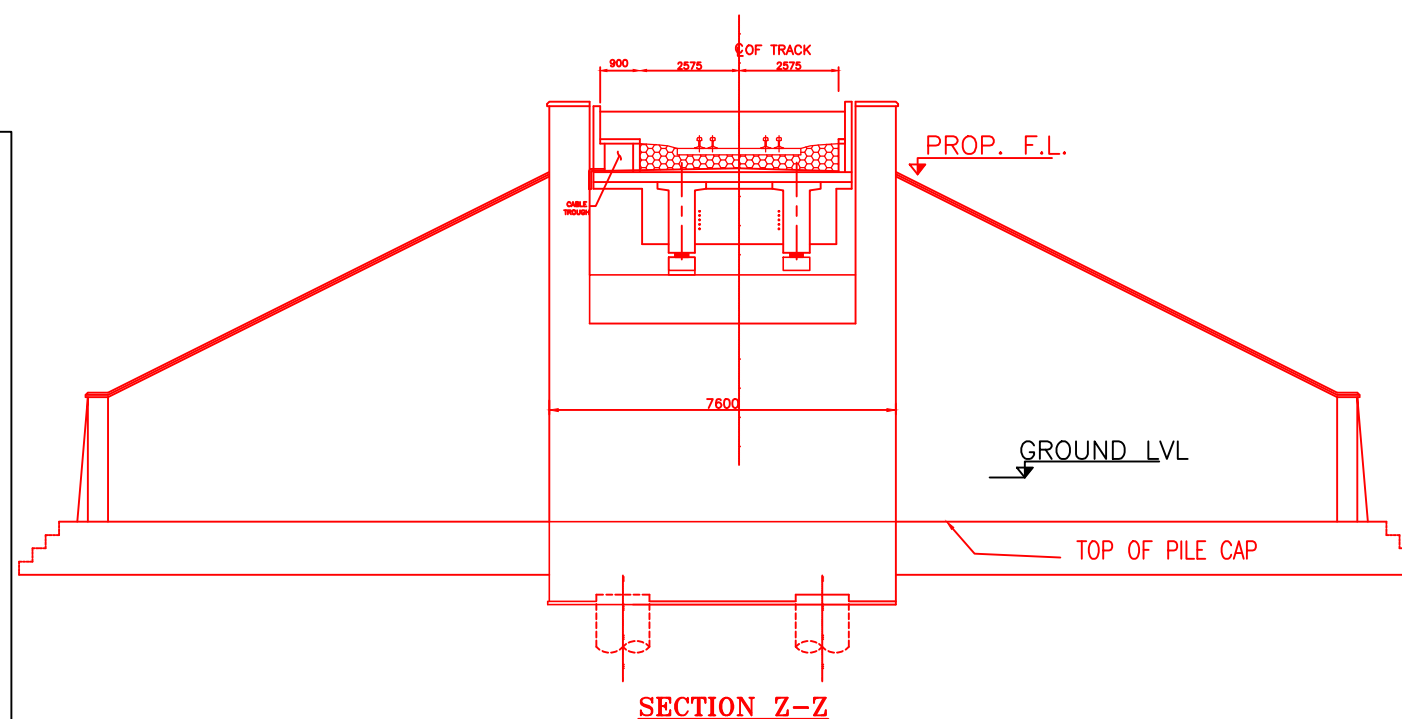
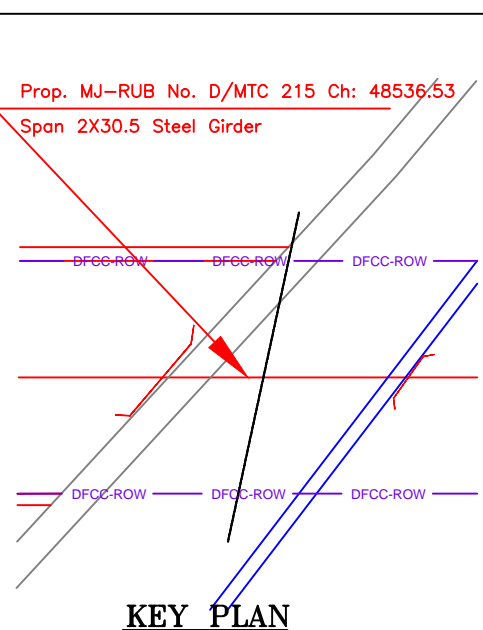
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.		
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA		
		EASTERN CORRIDOR		
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 206 SPAN (1X30.5m) AT CH. 46362		
TITLE		GENERAL ARRANGEMENT DRAWING		
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY
NTS	JUNE 2016			
DRG. NO.				REV.
AECOM/303/MJR-RUB/D/MTC206				R0



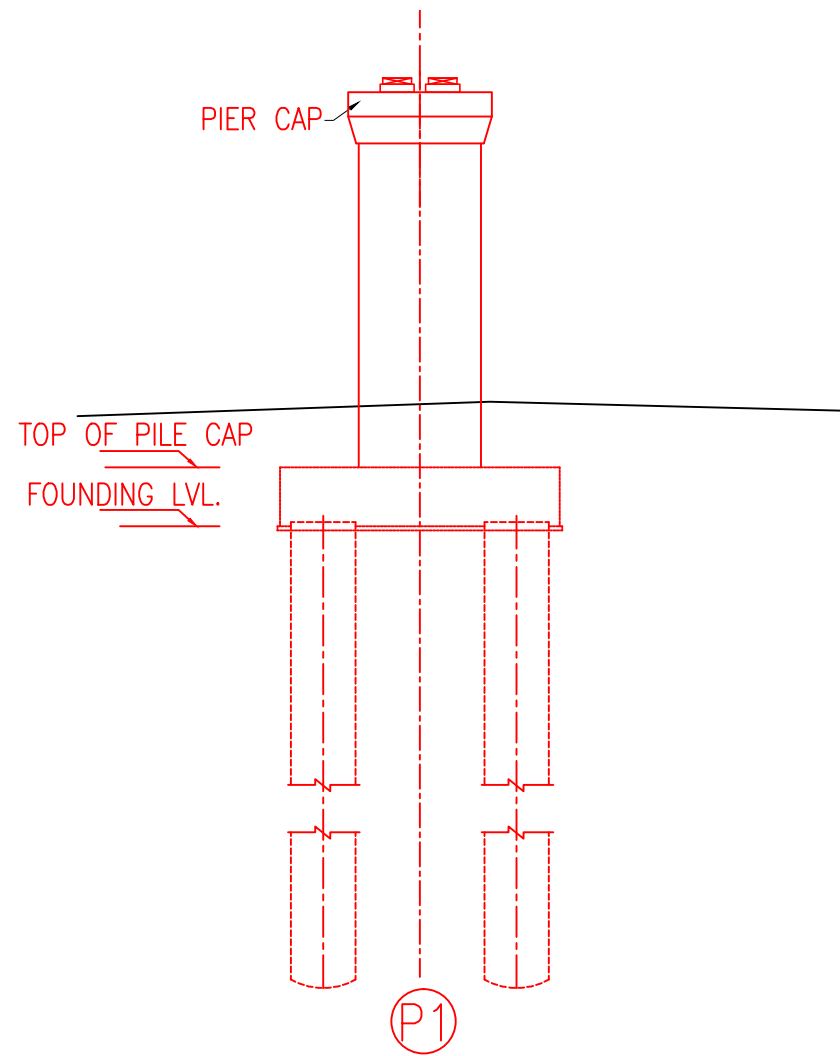
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
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7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
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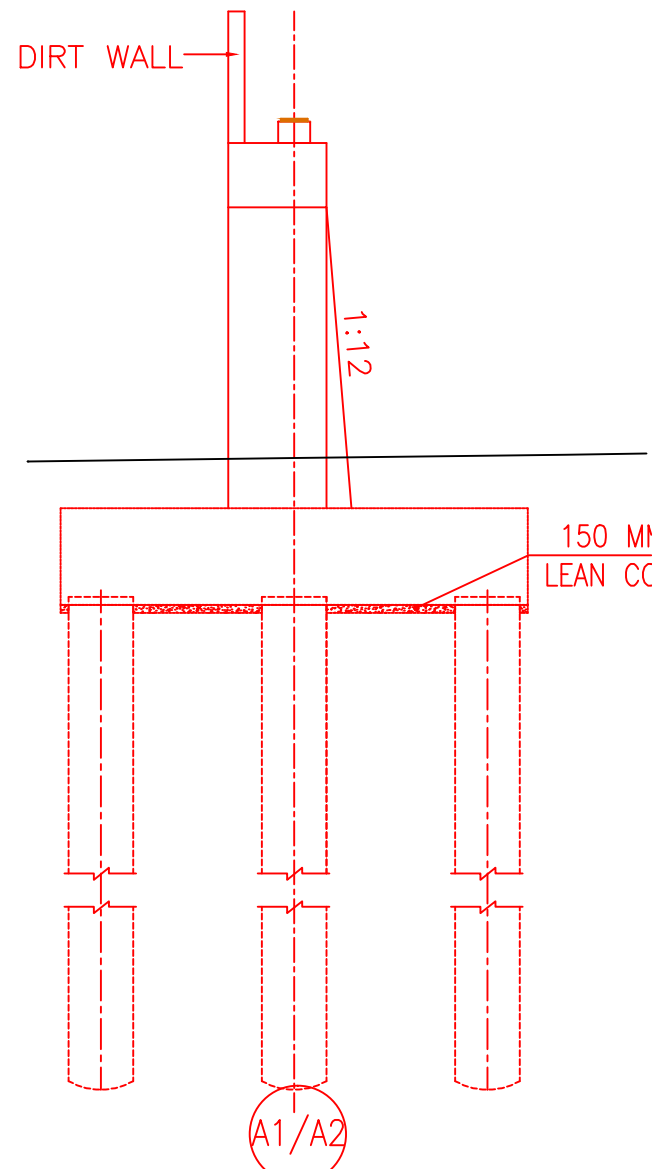


INDICATIVE DRAWING

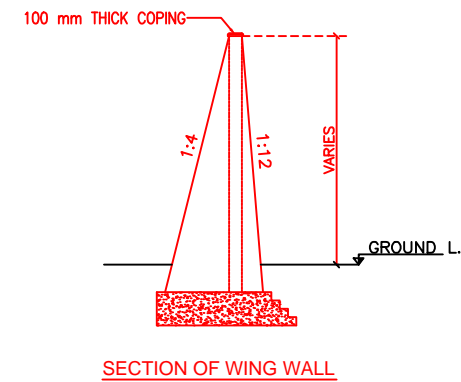
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GENERAL CONSULTANT		AECOM Asia Co. Ltd.				
		9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
EASTERN CORRIDOR						
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR RUB. NO. D/MTC 215 SPAN (2X30.5m) AT CH. 48536.530				
TITLE						
GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC215 SHEET 1 OF 2	R0



DETAIL OF PIER

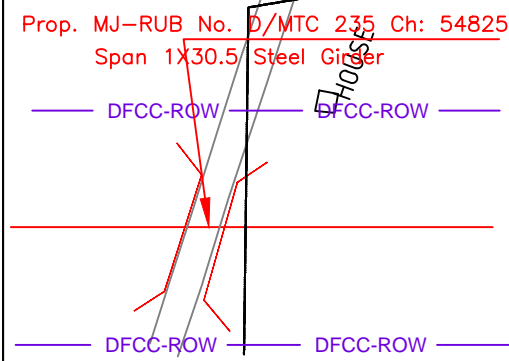
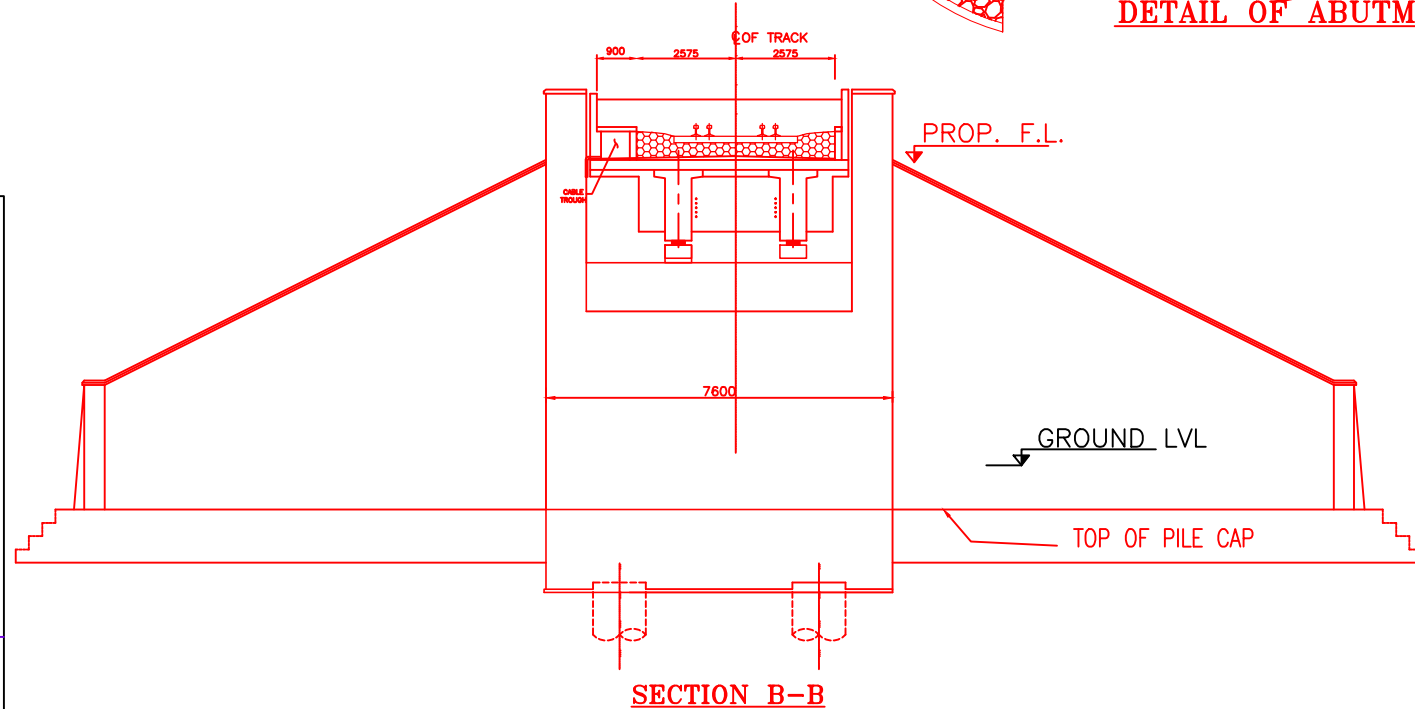
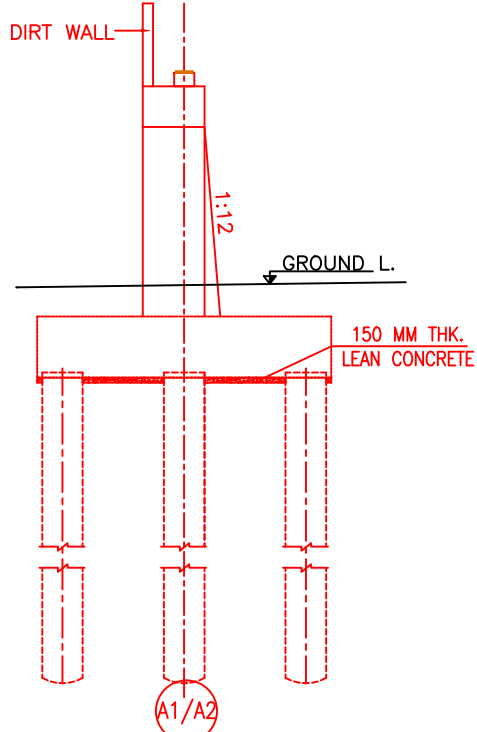
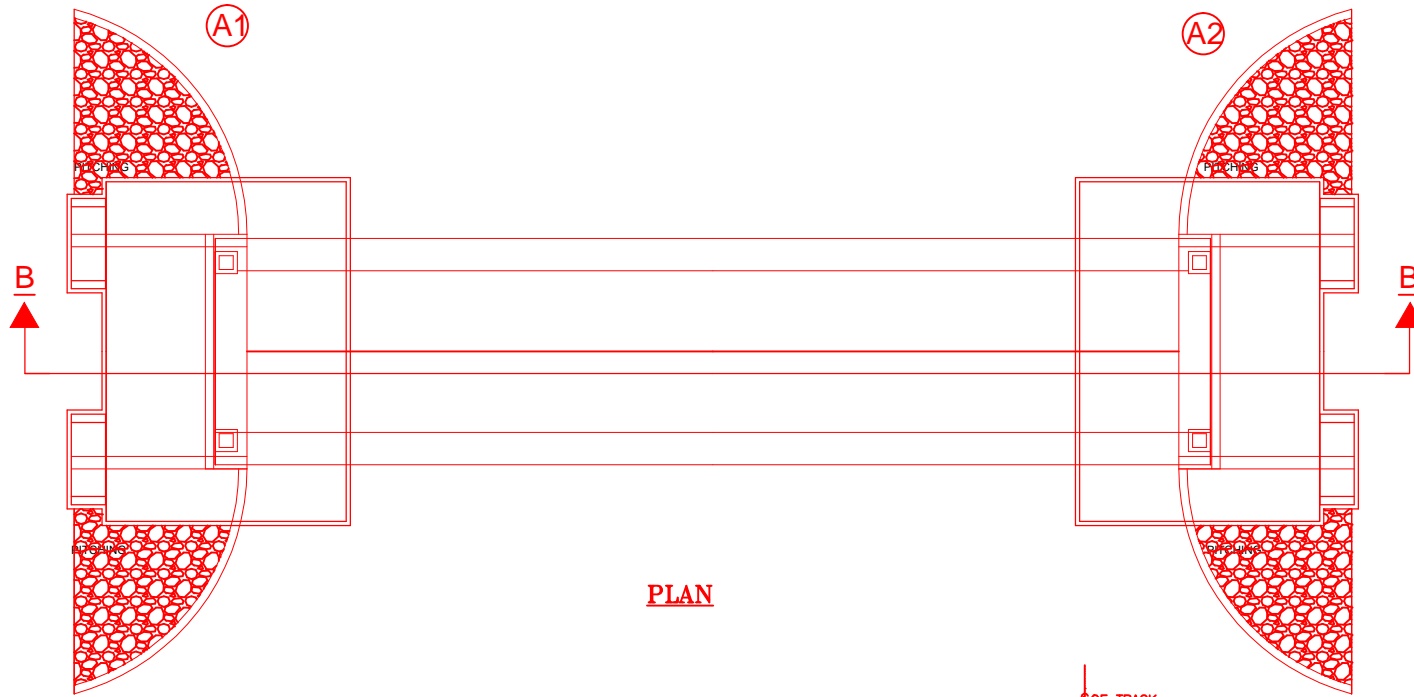
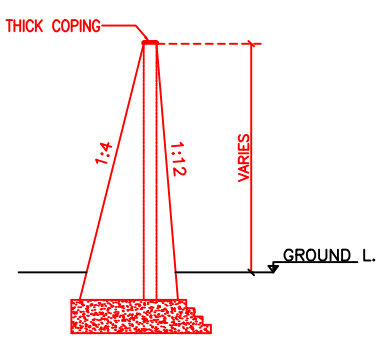
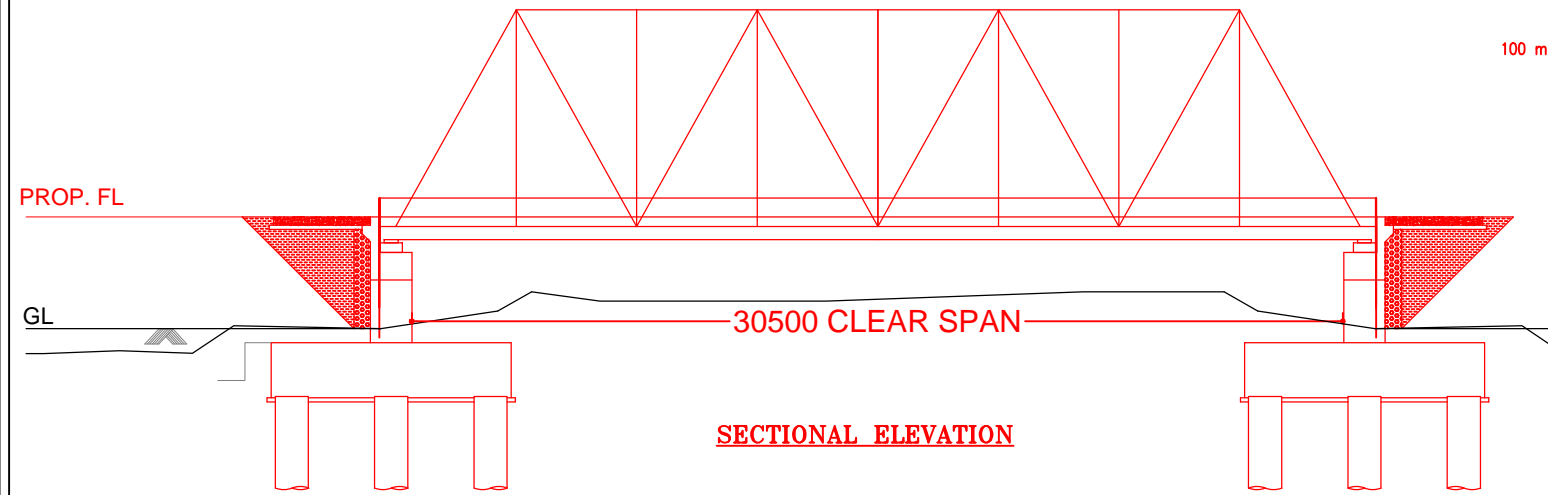


DETAIL OF ABUTMENT



INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR RUB. NO. D/MTC 215 SPAN (2X30.5m) AT CH. 48536.530				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC215 SHEET 2 OF 2	R0

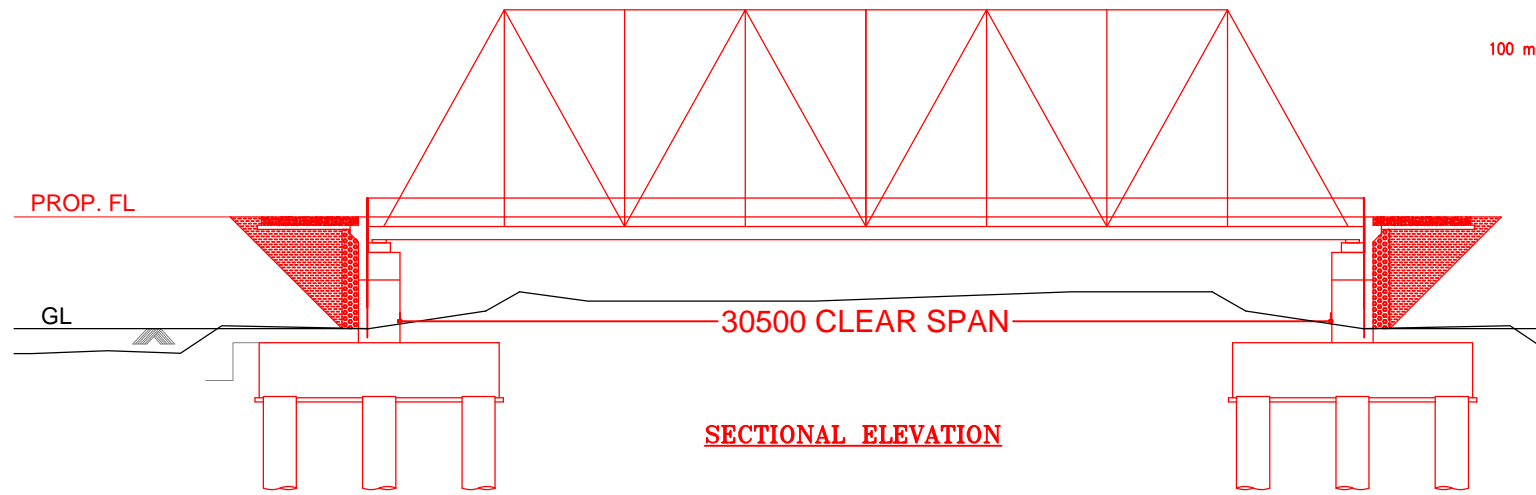


NOTES:-

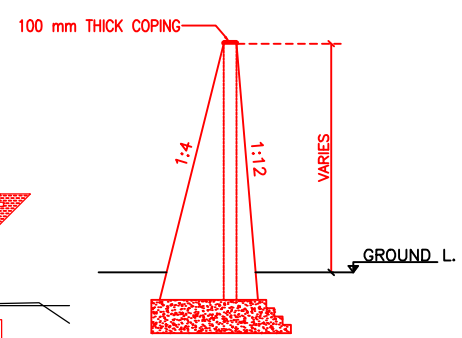
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
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- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
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INDICATIVE DRAWING

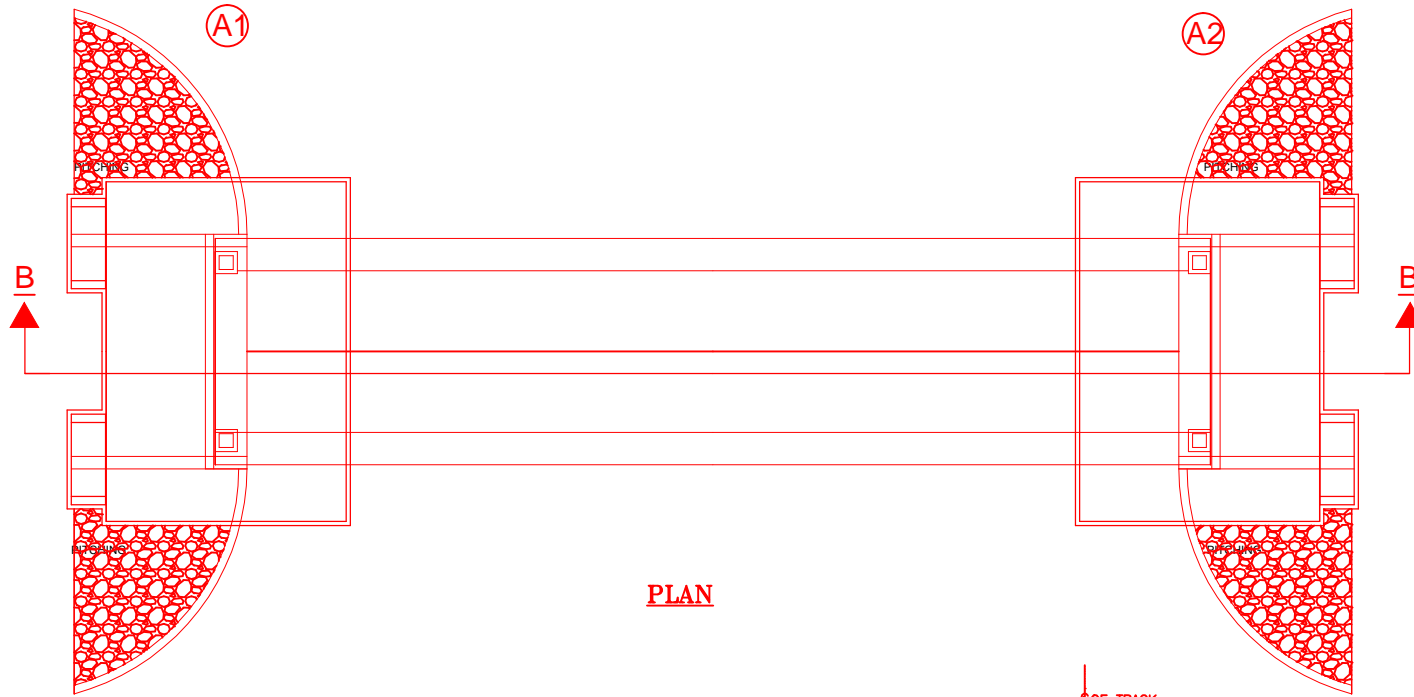
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 235 SPAN (1X30.5m) AT CH. 54825				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC235	R0



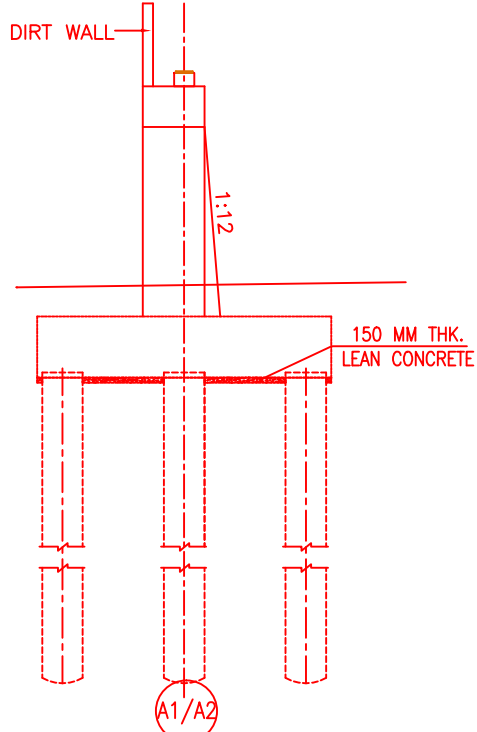
SECTIONAL ELEVATION



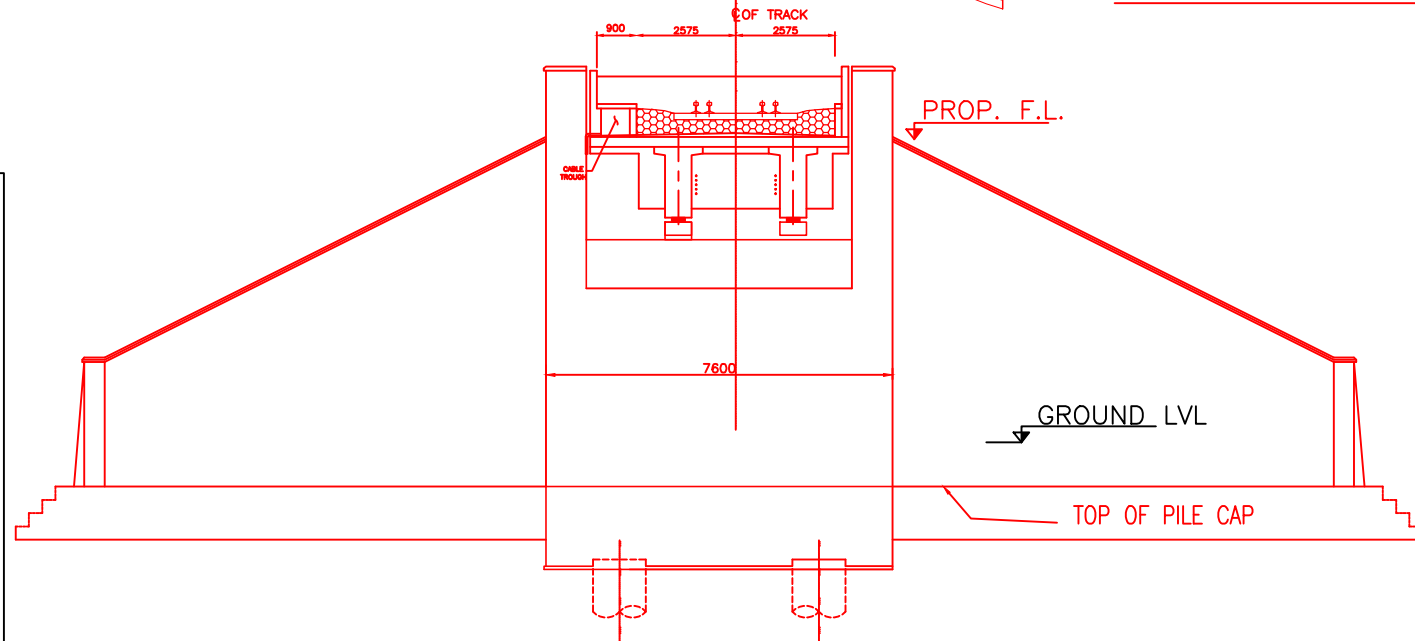
SECTION OF WING WALL



PLAN



DETAIL OF ABUTMENT

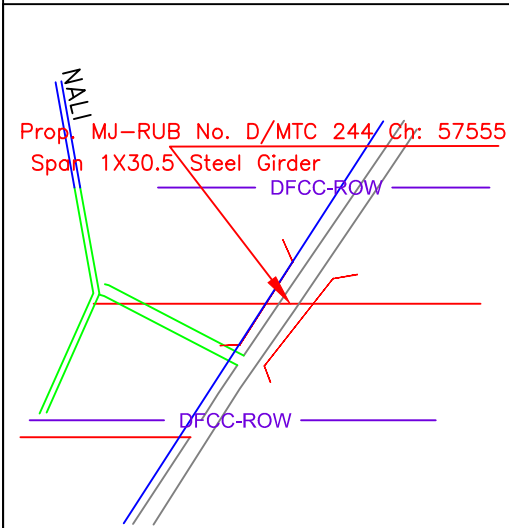


SECTION B-B

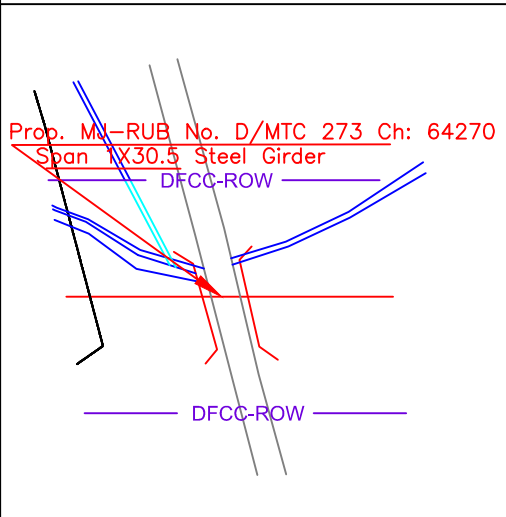
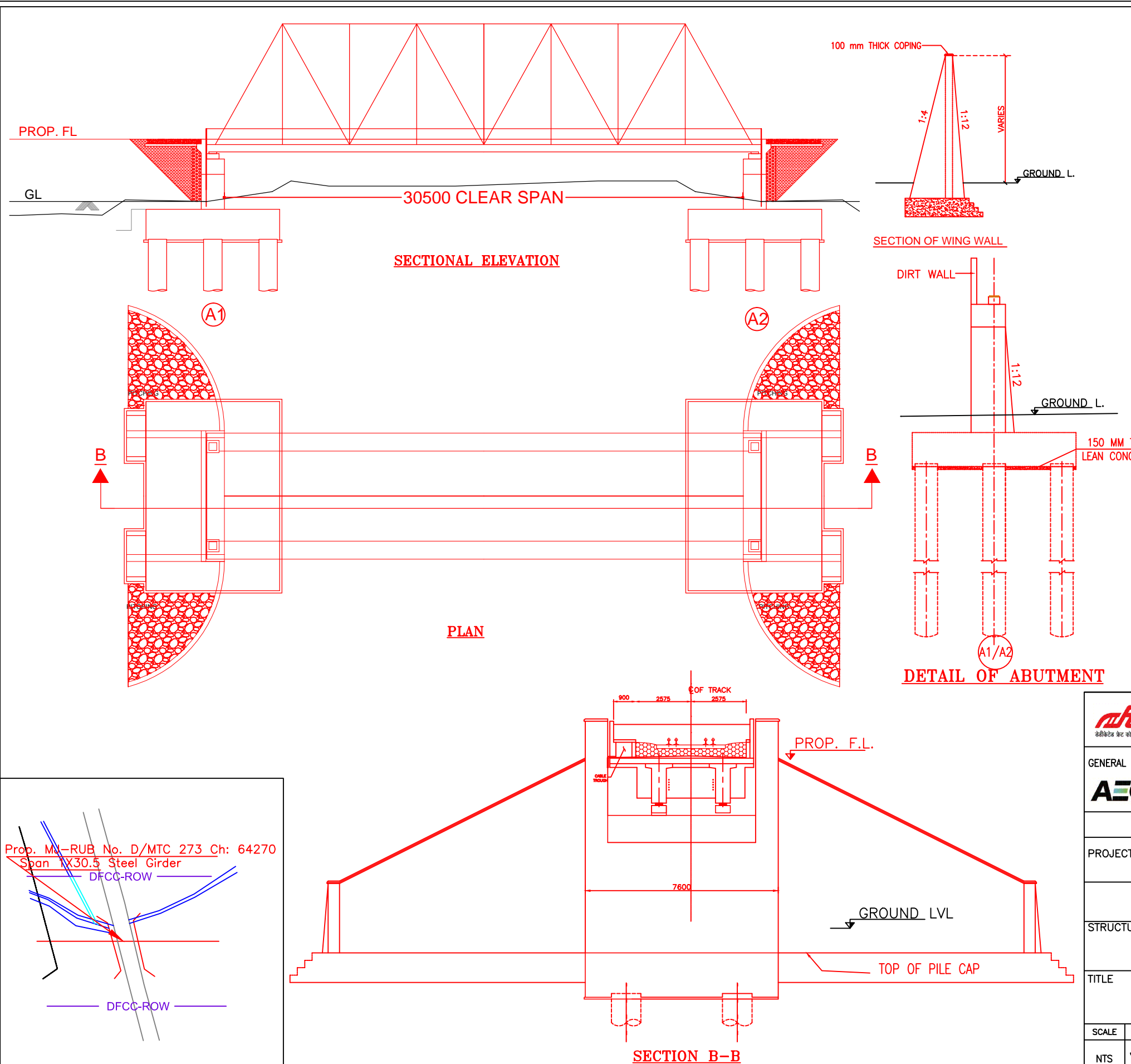
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INDICATIVE DRAWING



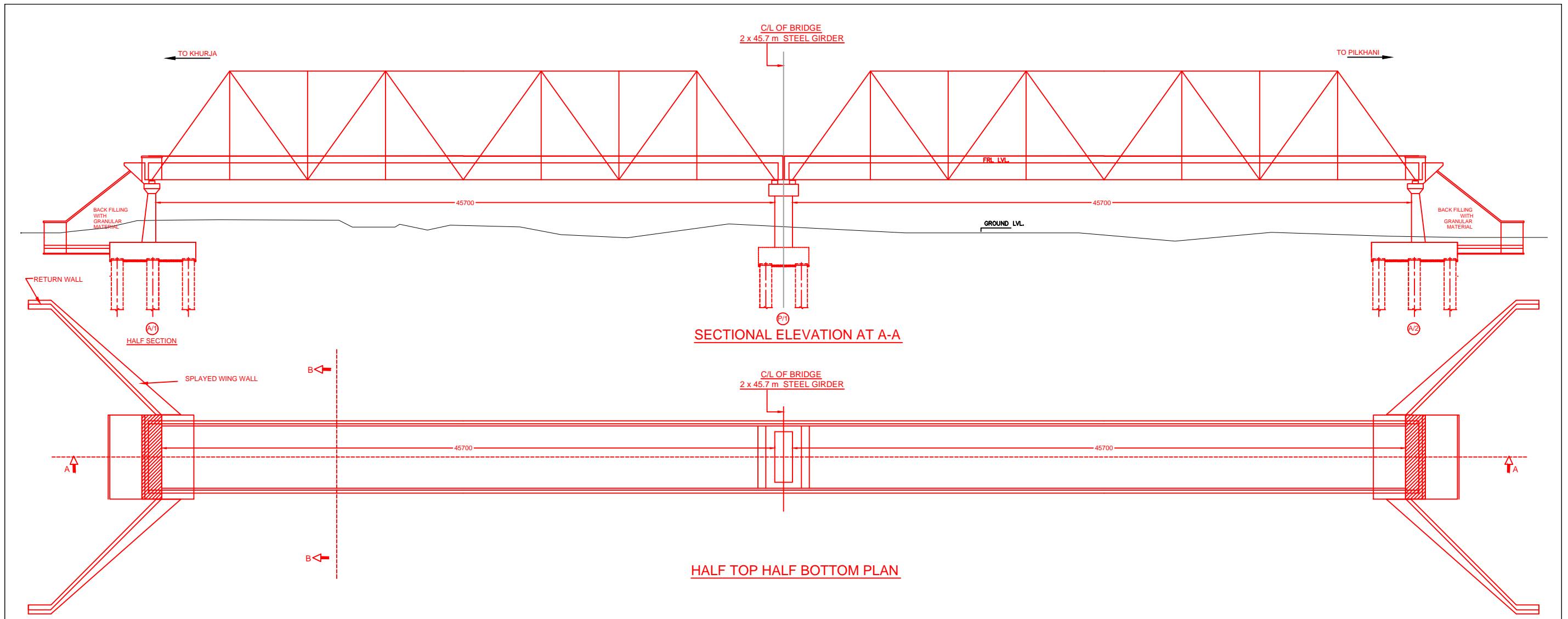
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 244 SPAN (1X30.5m) AT CH. 57555				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC244	R0



- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK
 - DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

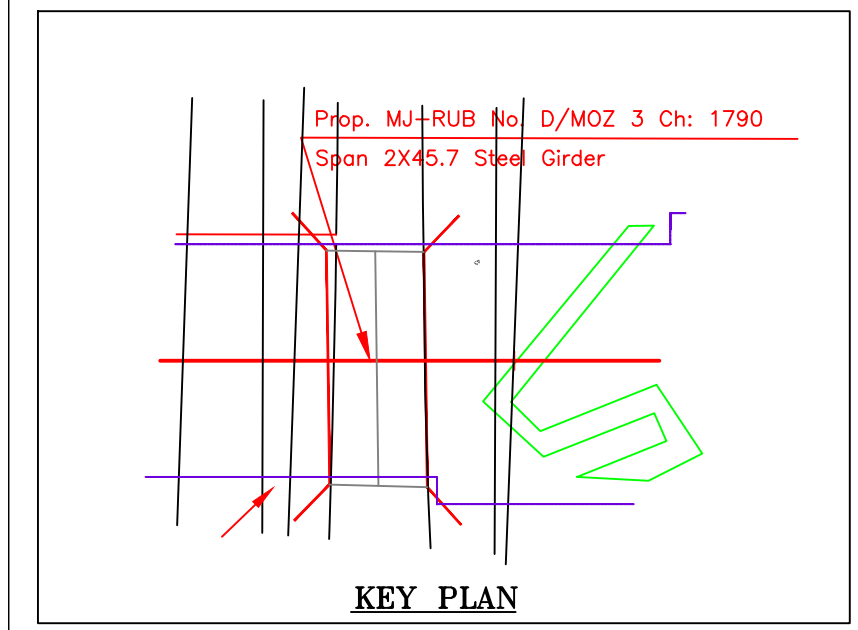
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MTC 273 SPAN (1X30.5m) AT CH. 64270				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MTC273	R0

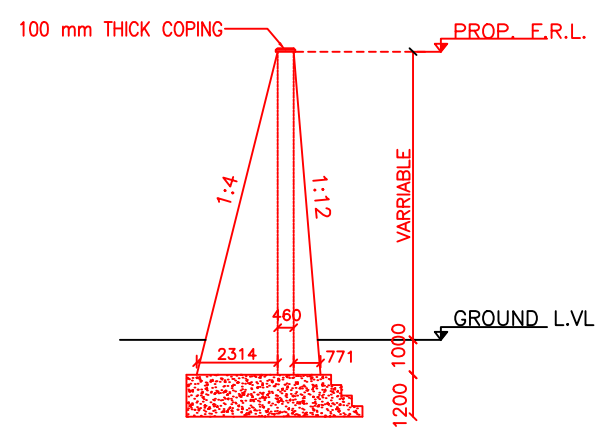


SECTIONAL ELEVATION AT A-A

HALF TOP HALF BOTTOM PLAN



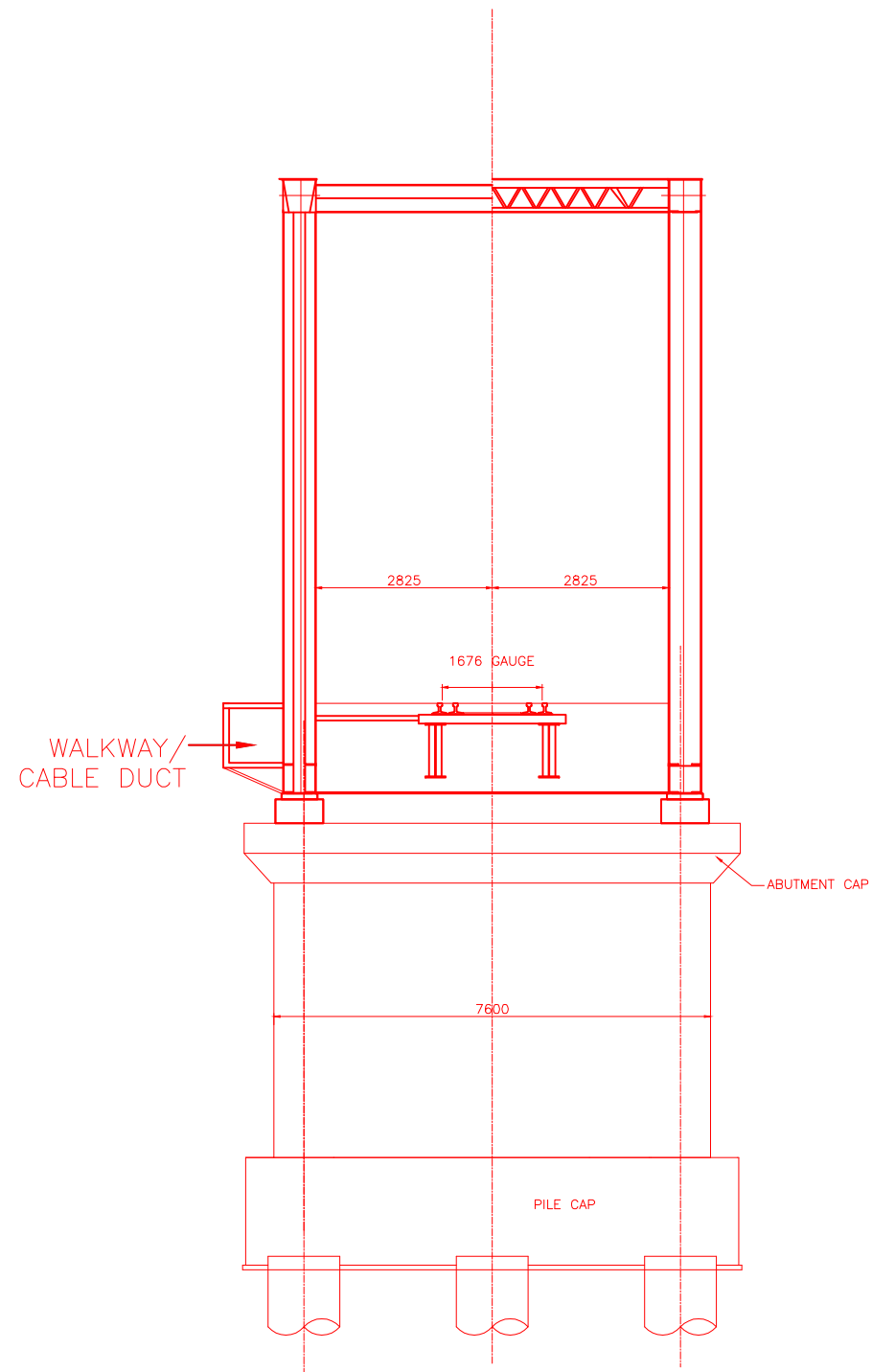
KEY PLAN



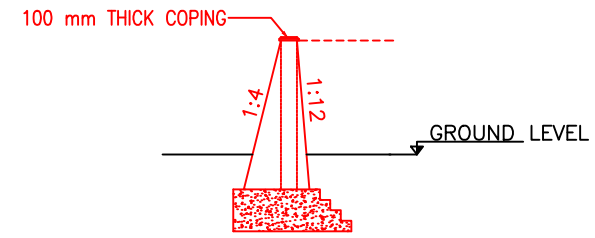
SECTION OF WING WALL

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 3 SPAN (2X45.7m) AT CH. 1790				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ3 SHEET 1 OF 2	R0



TYP. SEC.B-B



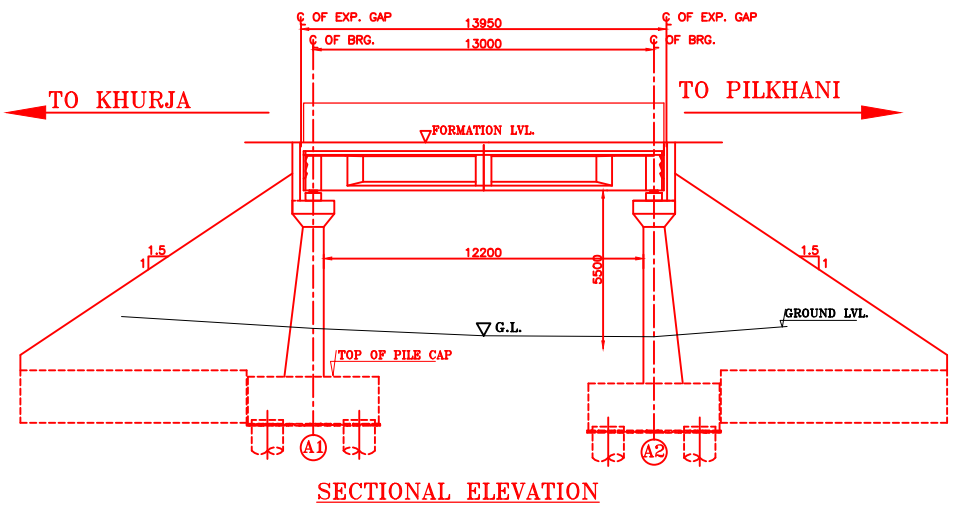
SECTION OF RETAINING WALL

NOTES:-

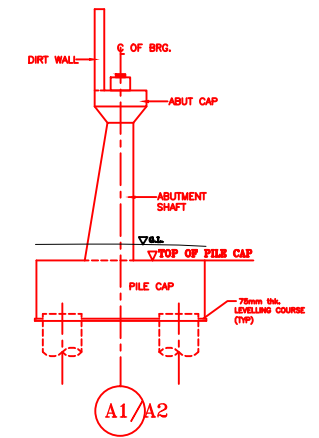
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 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
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17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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INDICATIVE DRAWING

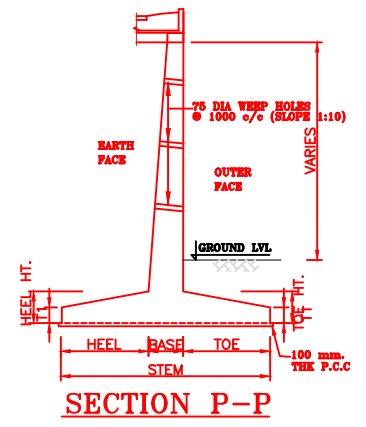
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
						
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 3 SPAN (2X45.7m) AT CH. 1790				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ3 SHEET 2 OF 2	R0



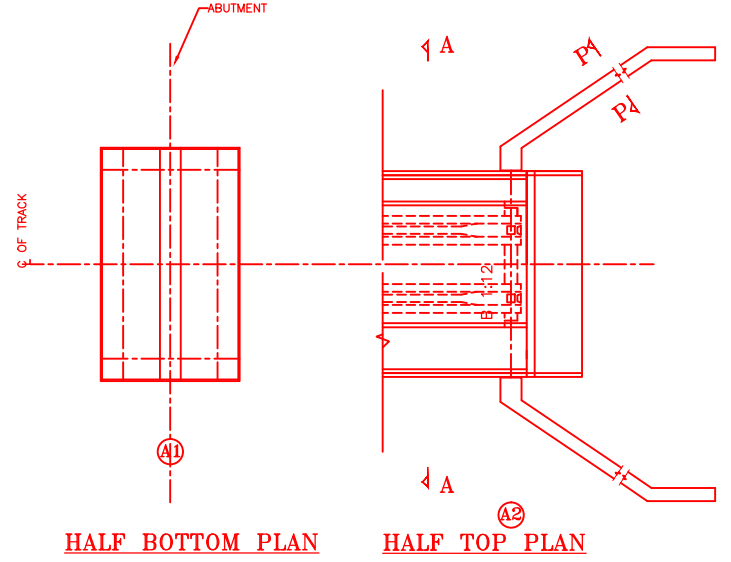
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

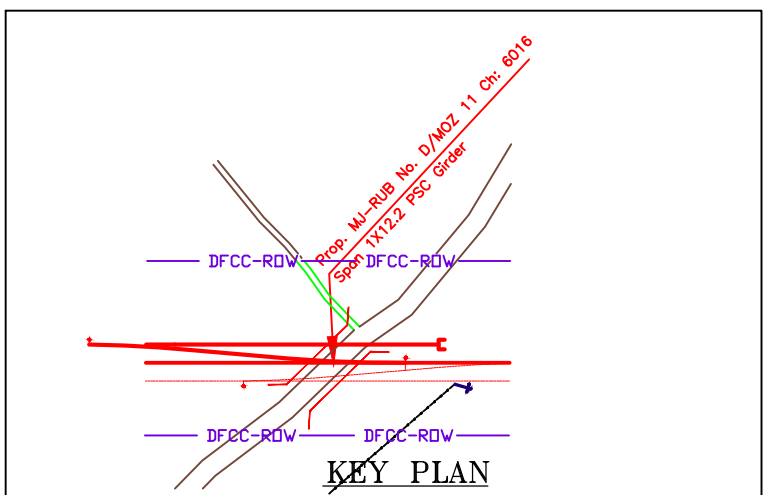


SECTION P-P

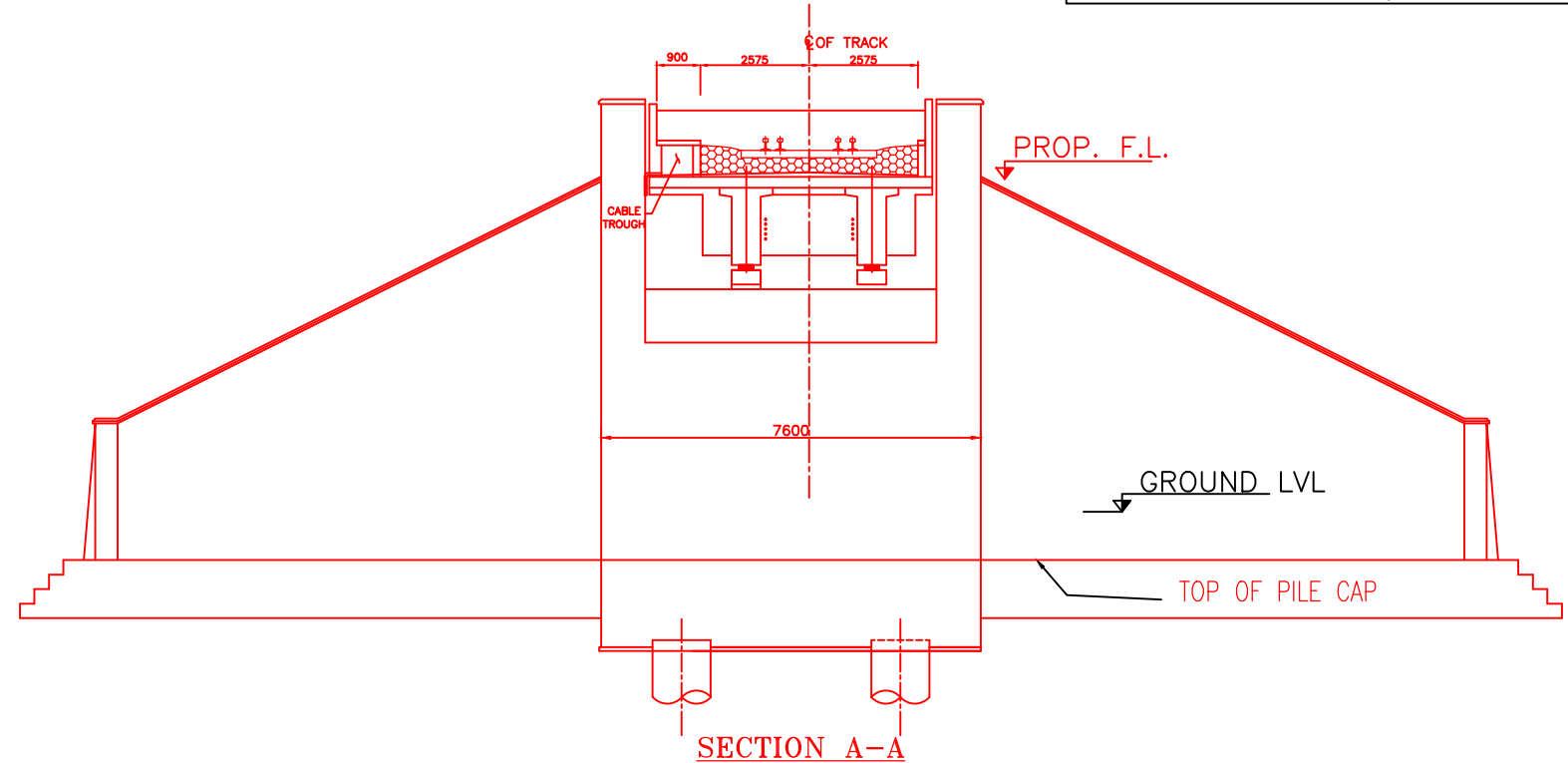


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



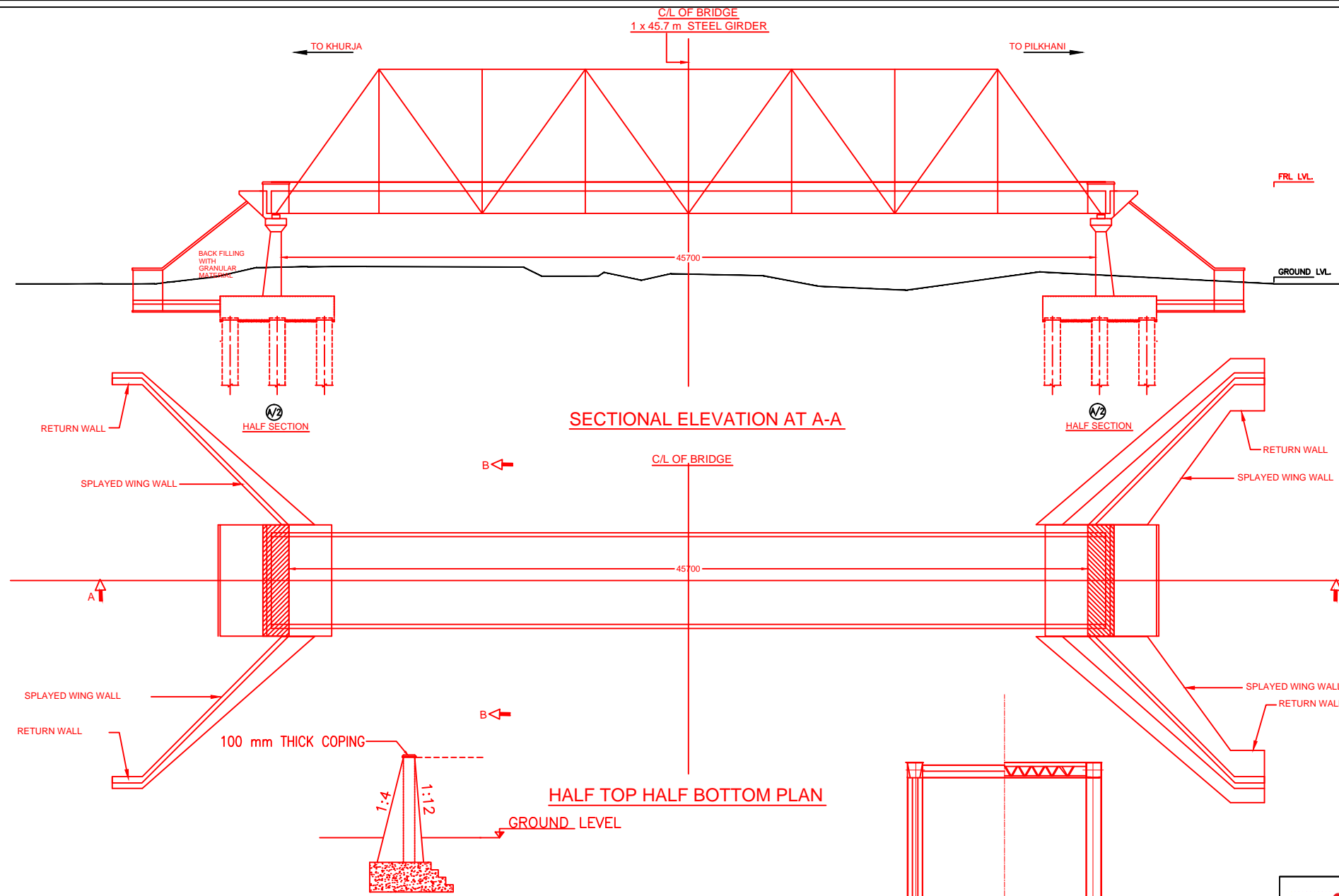
SECTION A-A

NOTES:-

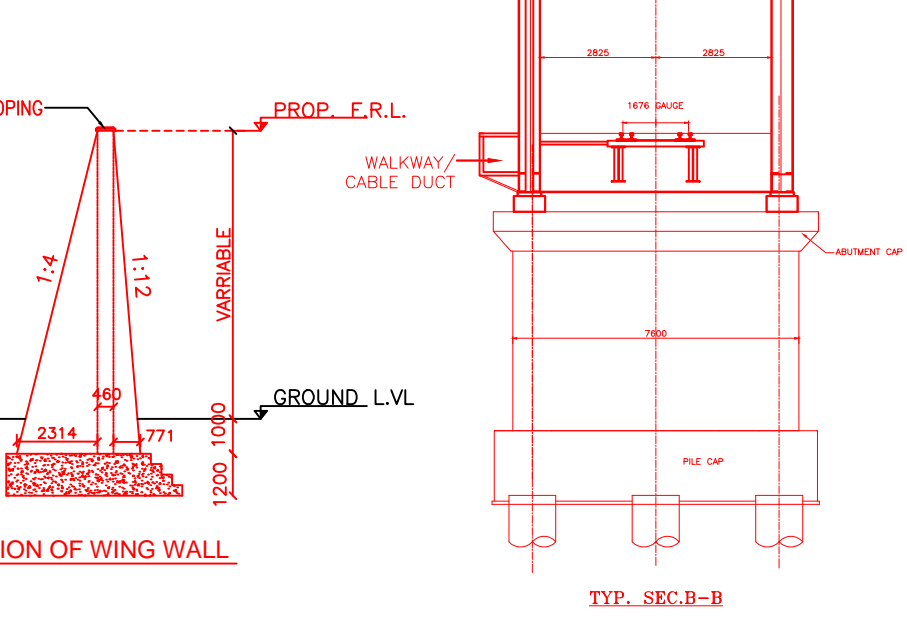
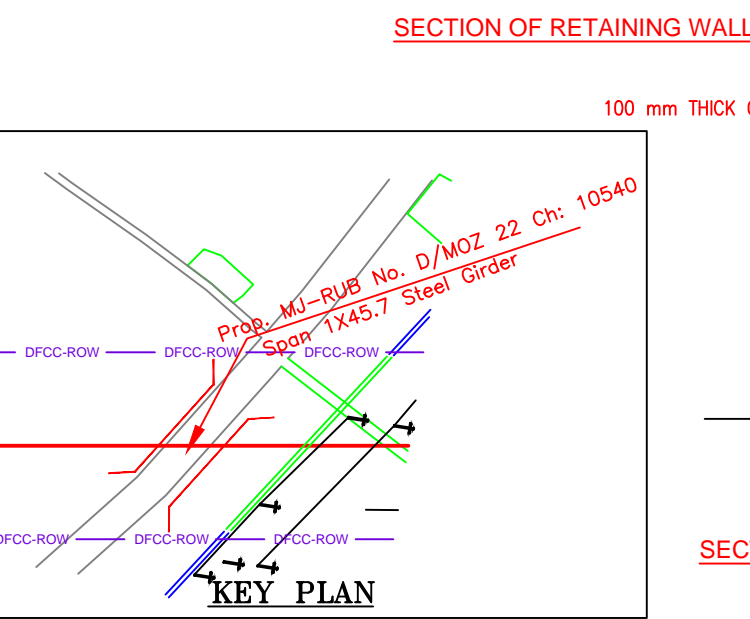
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INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 11 SPAN (1X12.2m) AT CH. 6016.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ11	R0

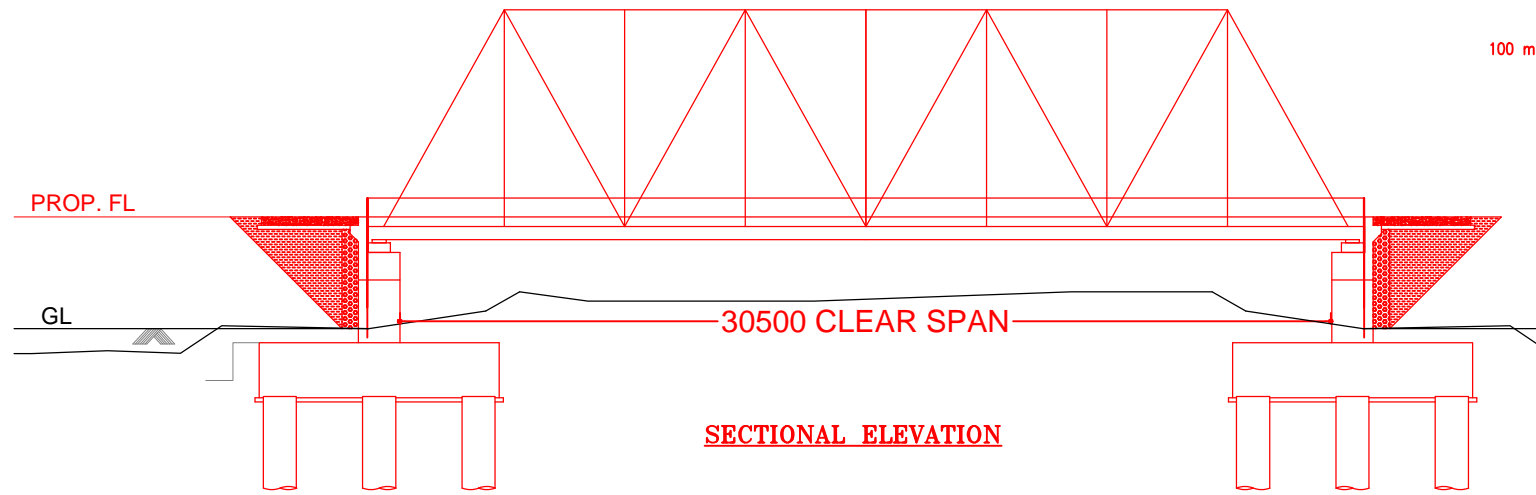


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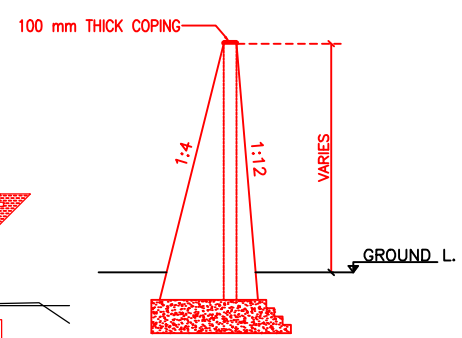


INDICATIVE DRAWING

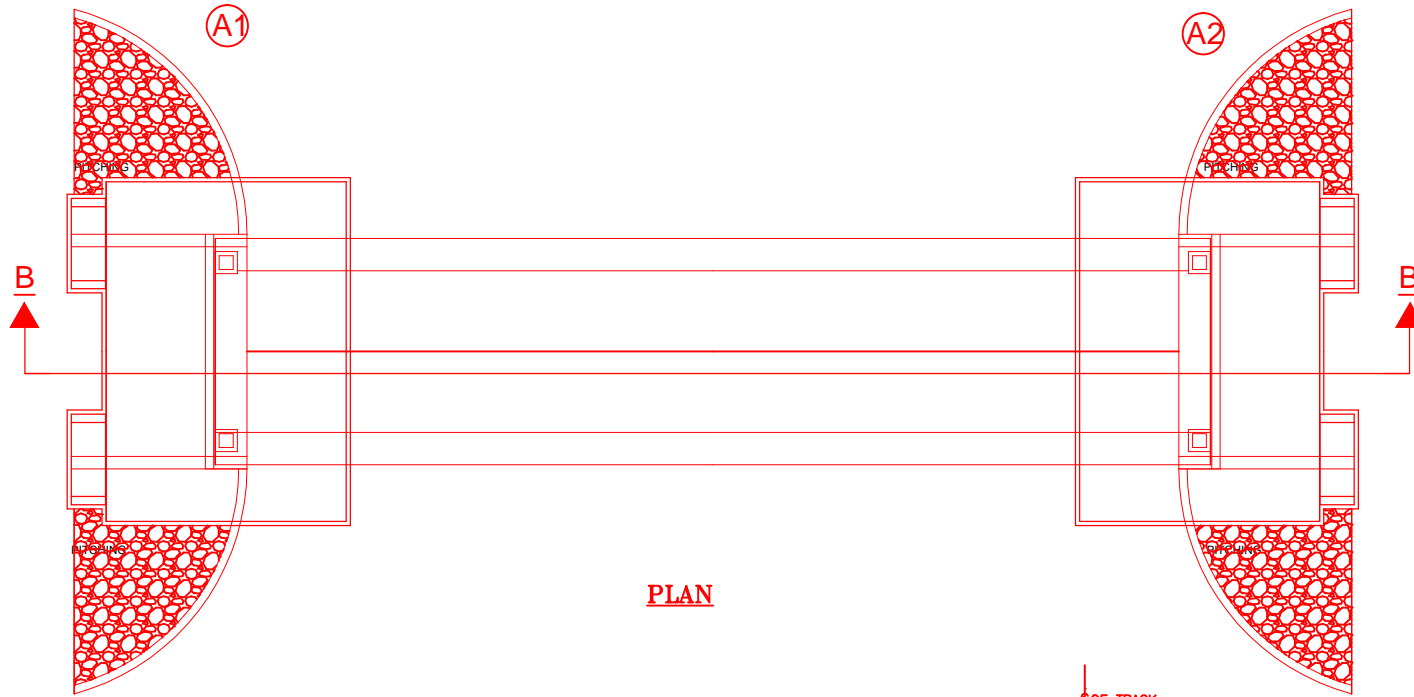
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 22 SPAN (1X45.7m) AT CH. 10540				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ 22	R0



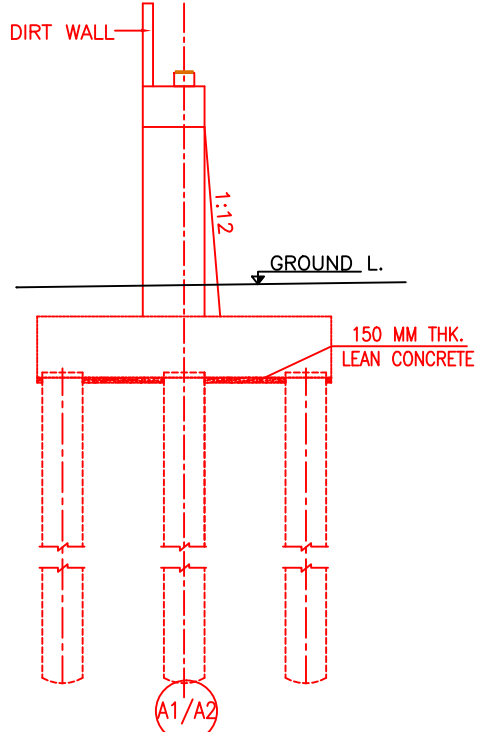
SECTIONAL ELEVATION



SECTION OF WING WALL



PLAN



DETAIL OF ABUTMENT

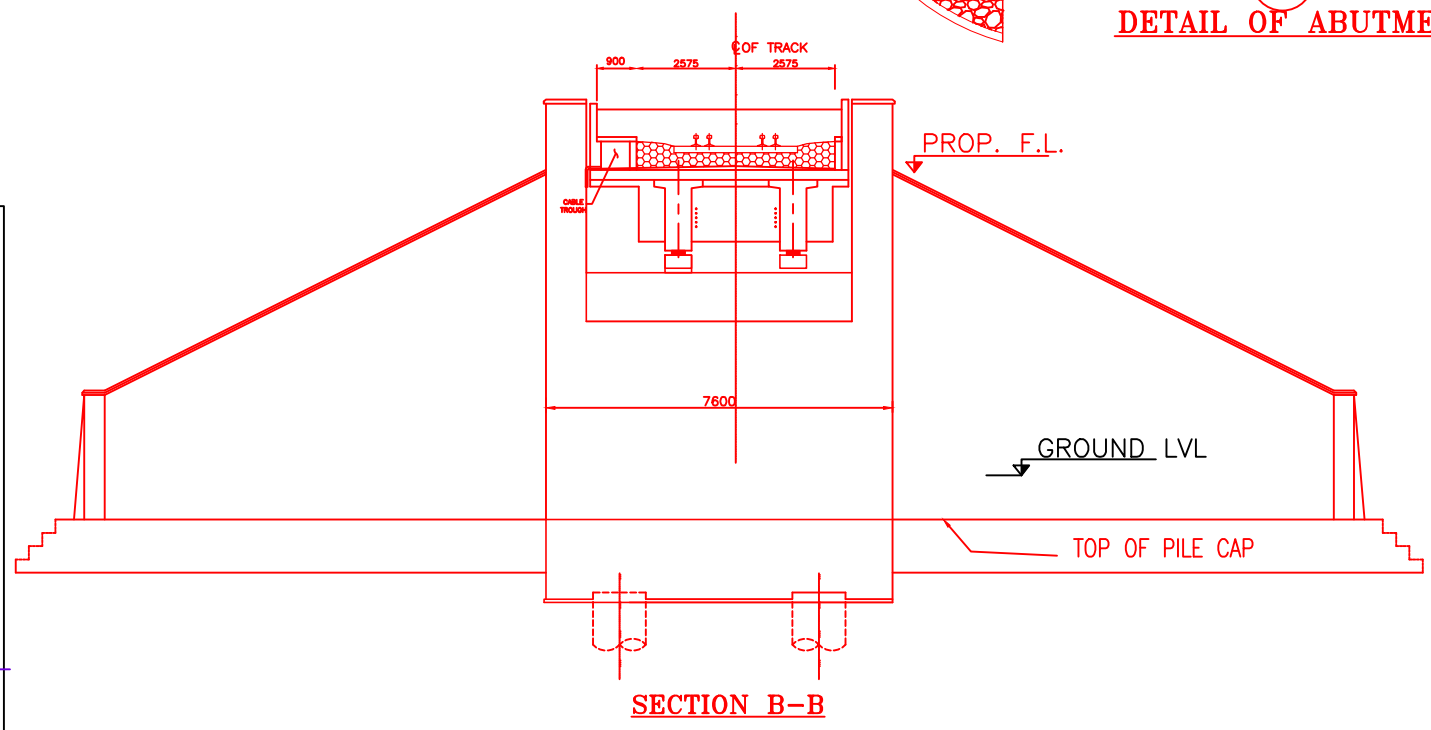
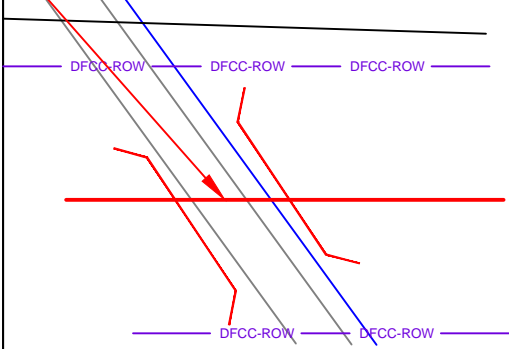
NOTES:-

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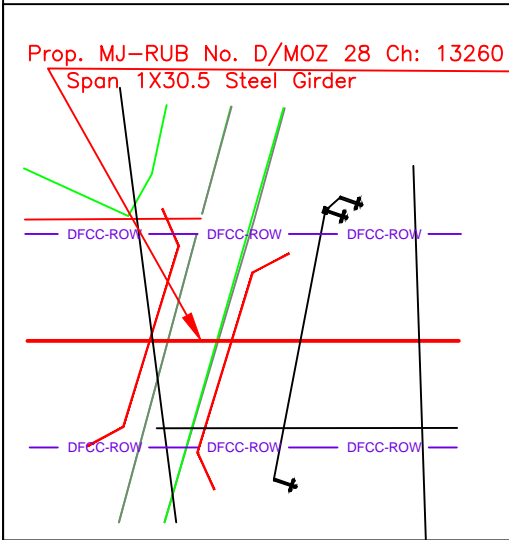
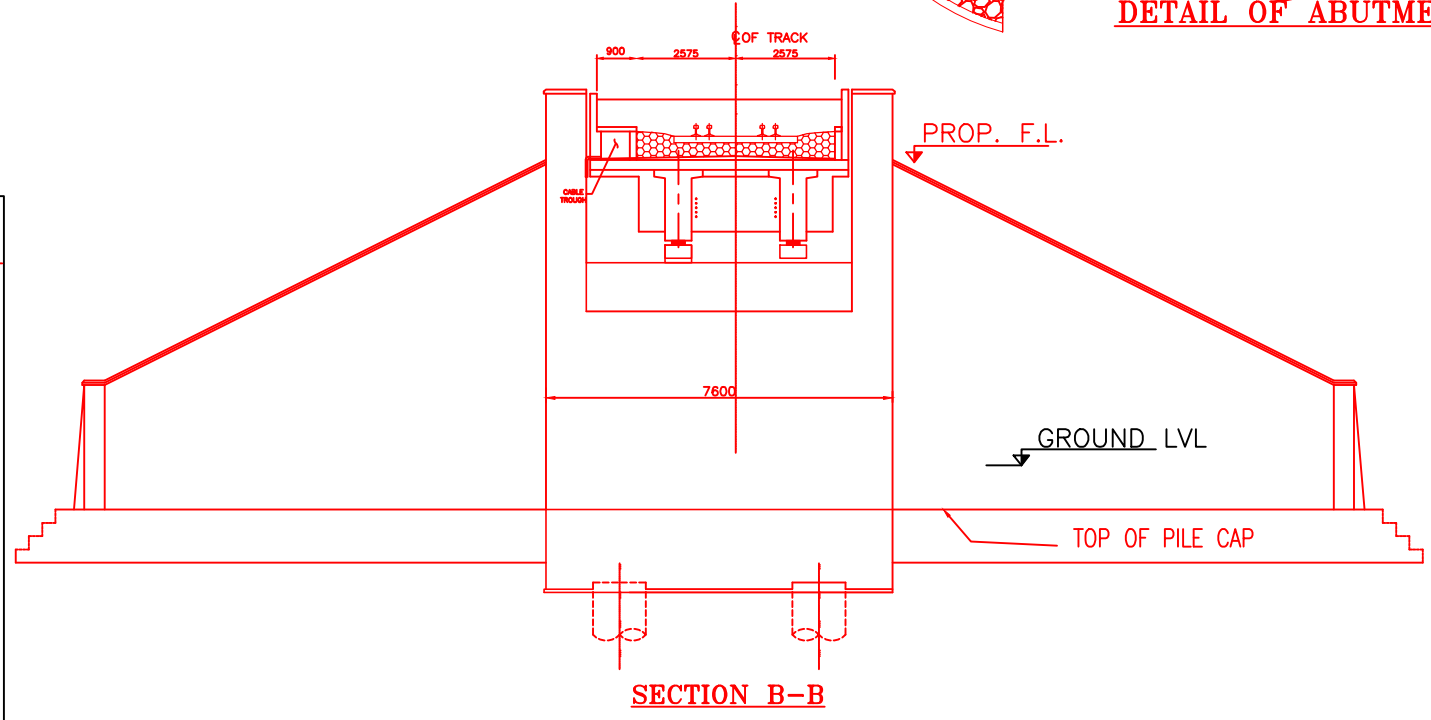
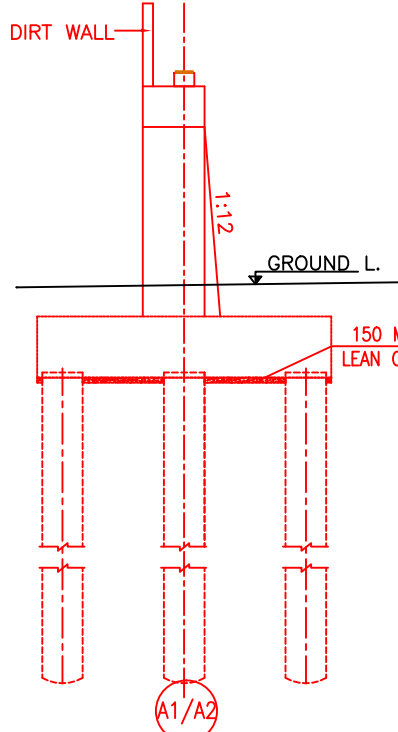
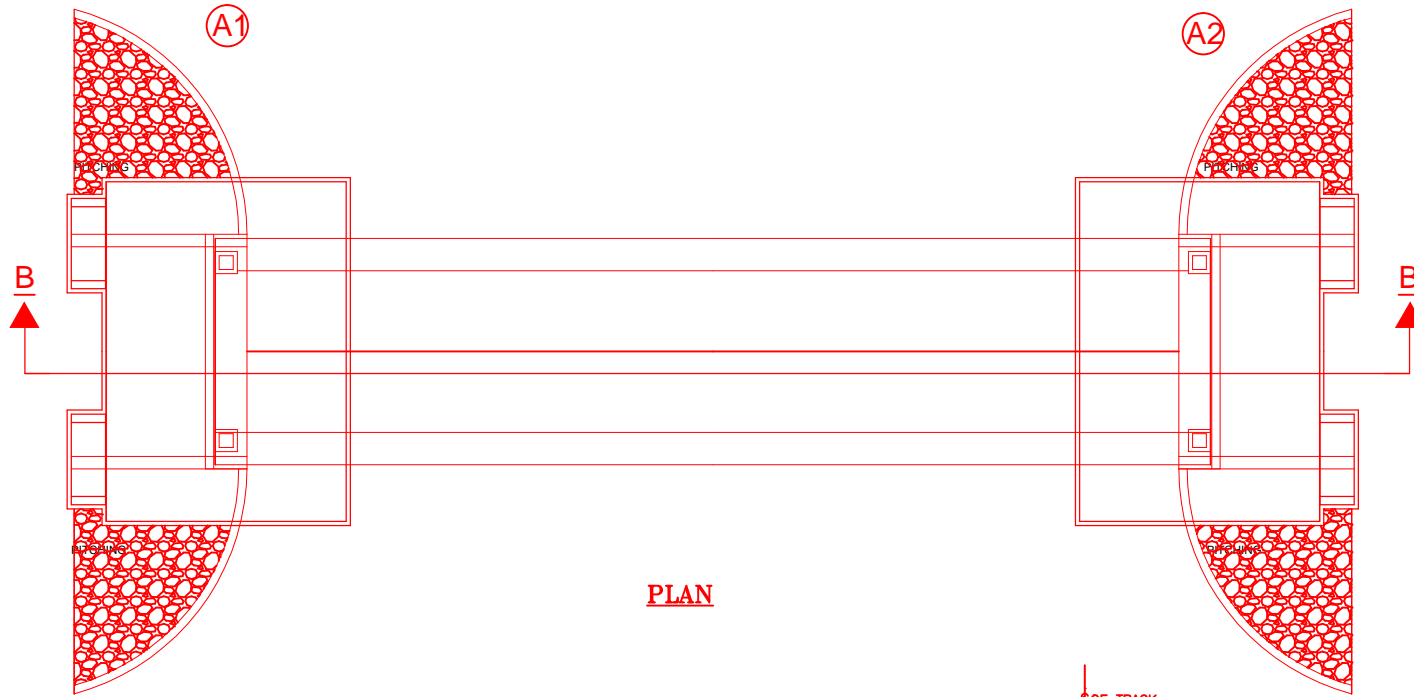
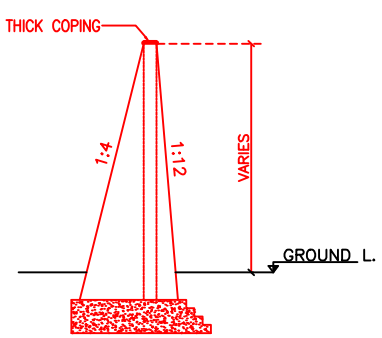
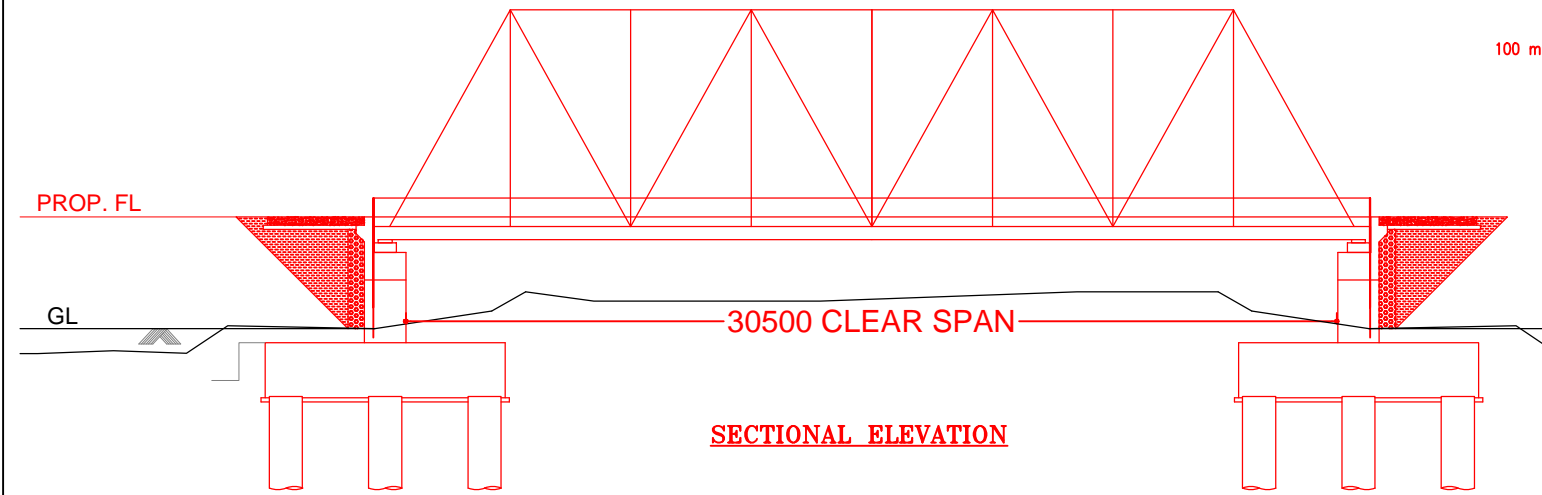
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
AECOM		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		PROPOSED MAJOR RUB NO. D/MOZ 26 SPAN (1X30.5m) AT CH. 12147				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ26	R0

Prop. MJ-RUB No. D/MOZ 26 Ch: 12147
Span 1X30.5 Steel Girder



SECTION B-B

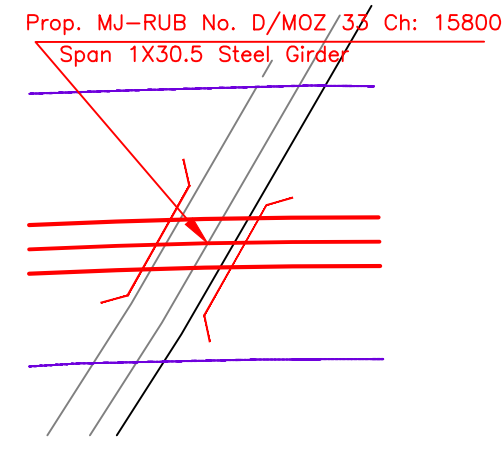
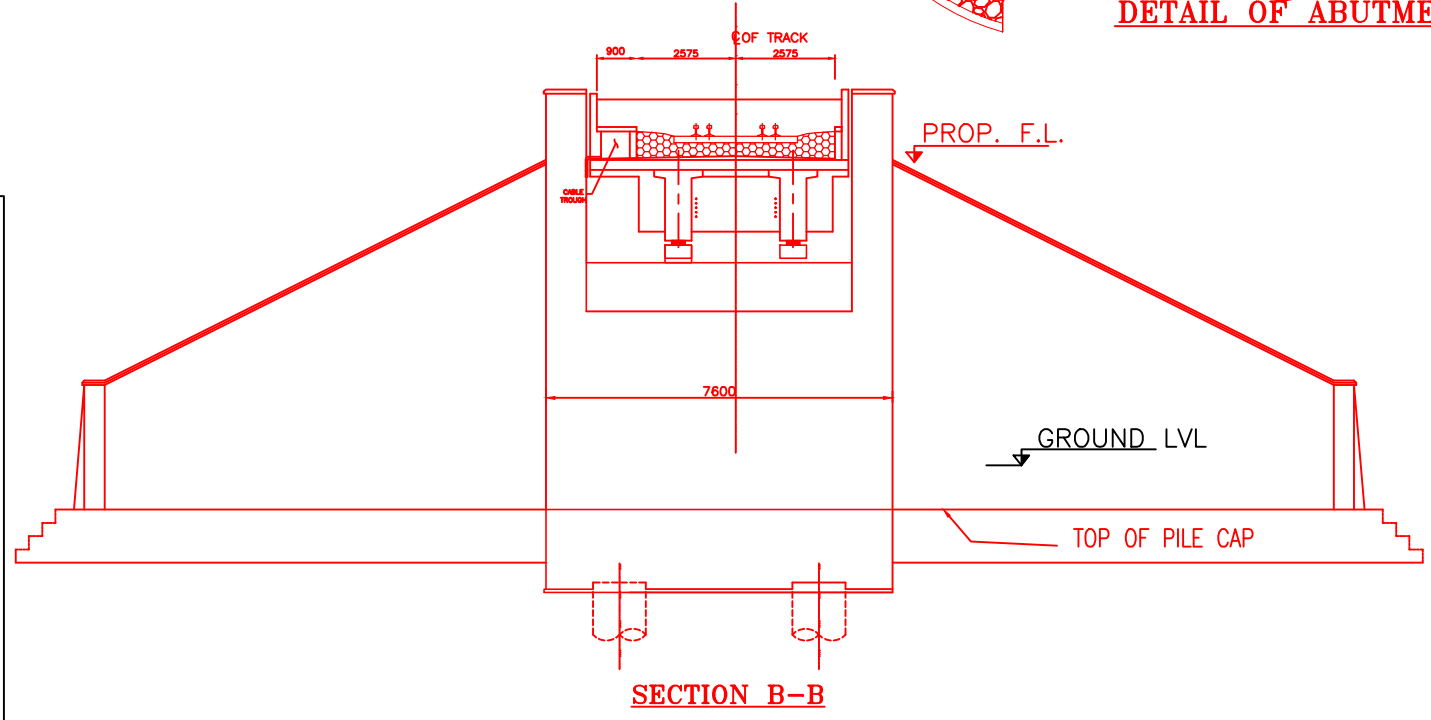
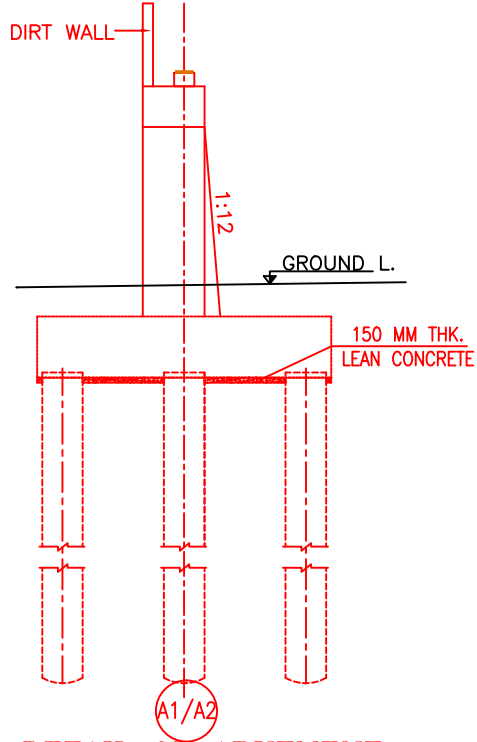
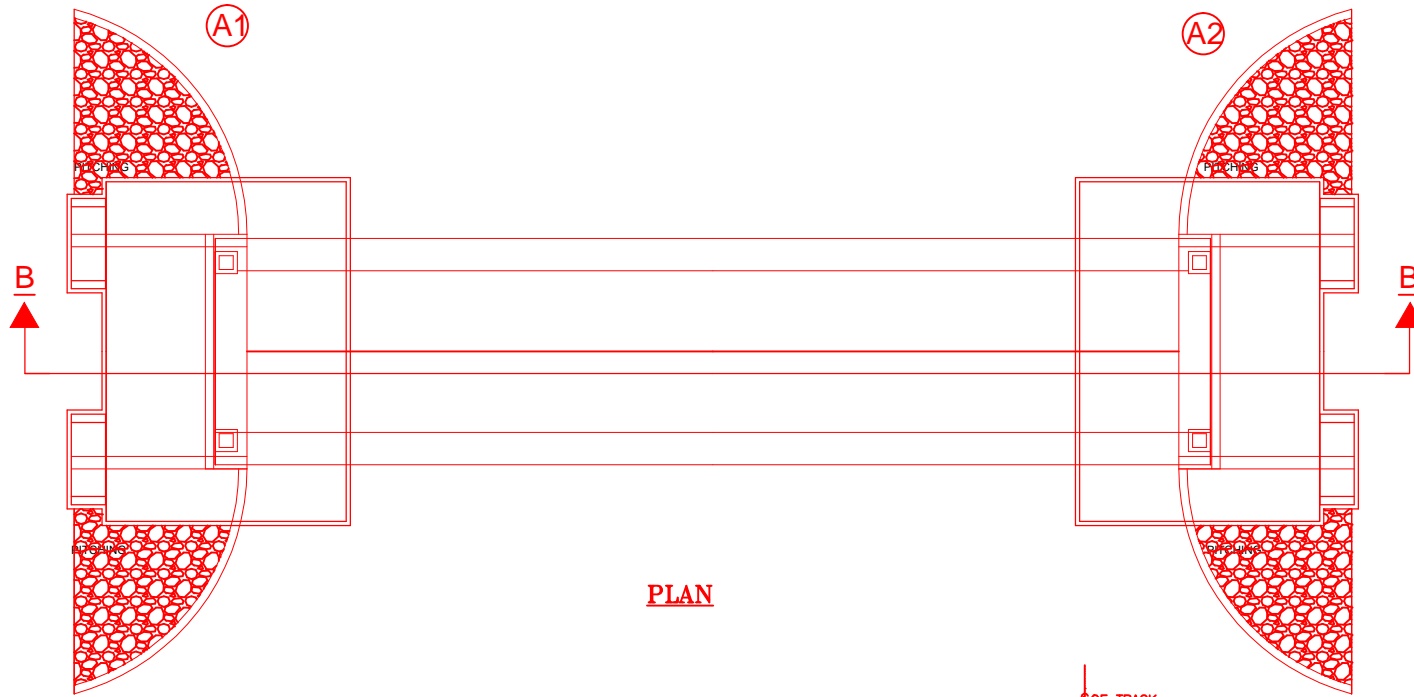
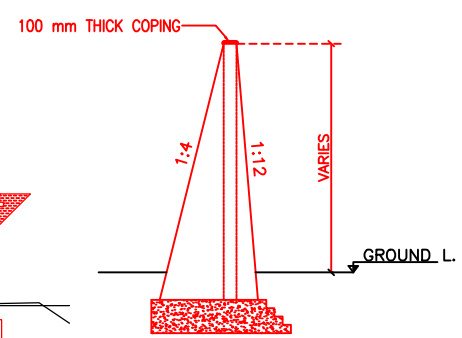
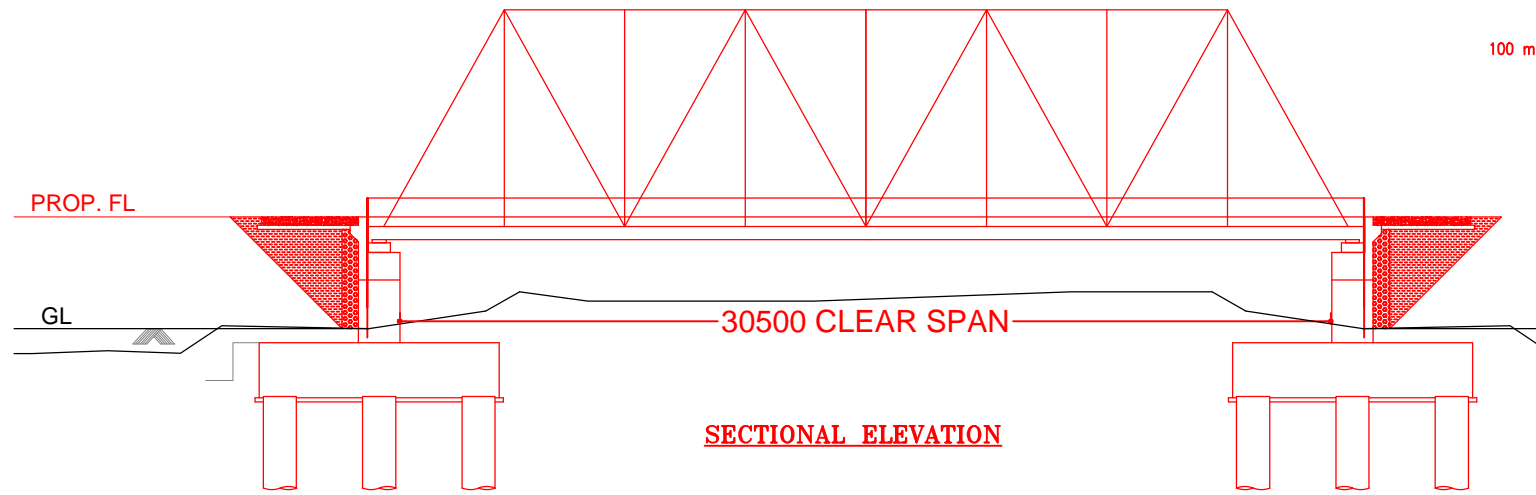


NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

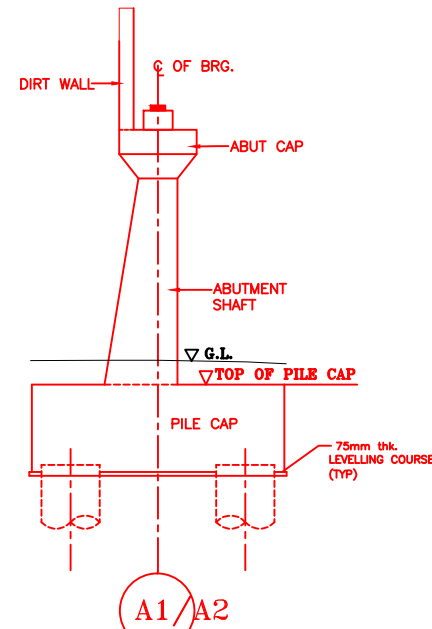
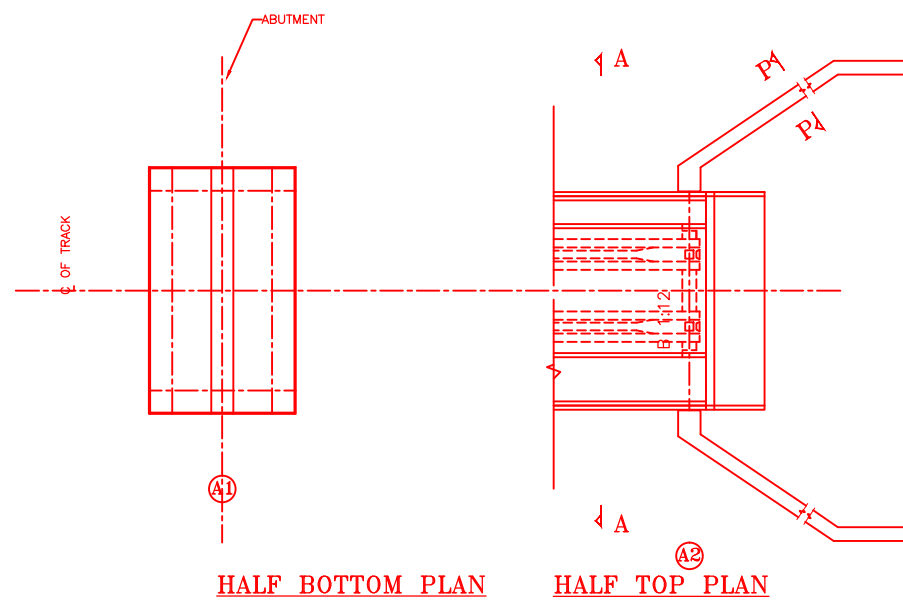
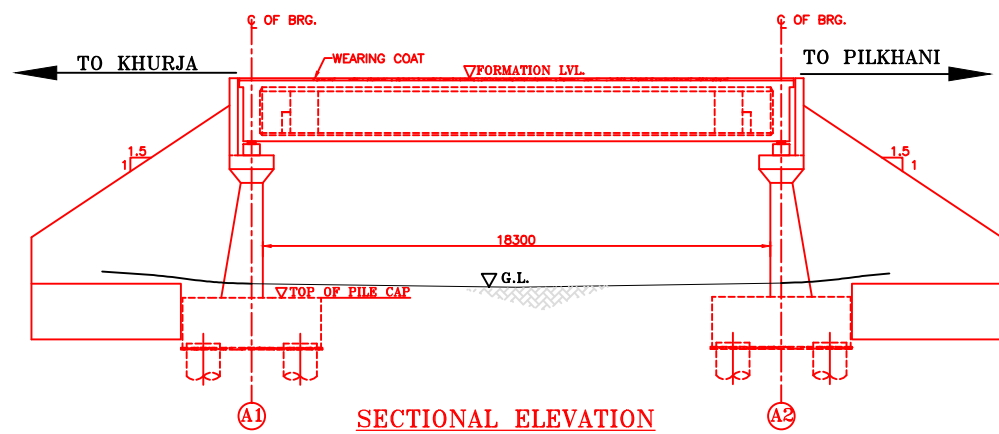
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.		
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA		
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 28 SPAN (1X30.5m) AT CH. 13260		
TITLE		GENERAL ARRANGEMENT DRAWING		
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY
NTS	JUNE 2016			
DRG. NO.				REV.
AECOM/303/MJR-RUB/D/MOZ28				R0



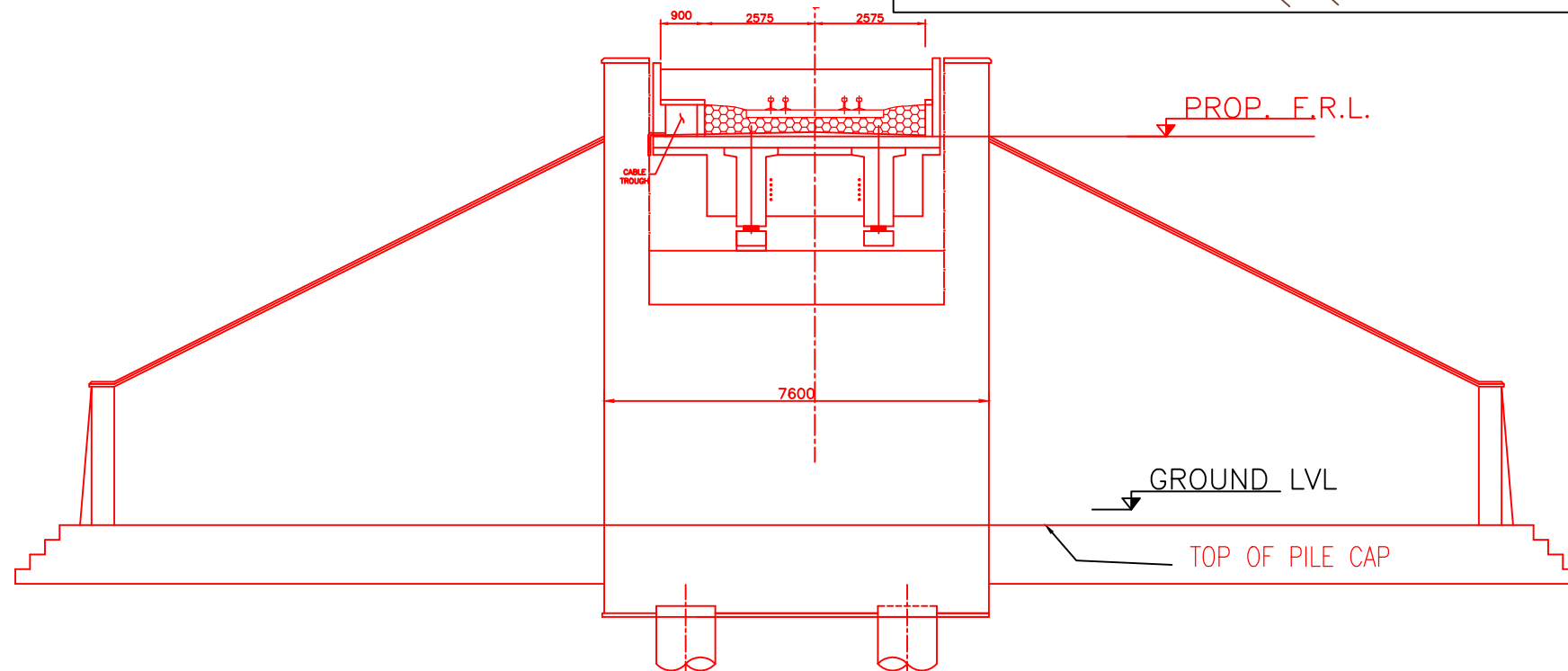
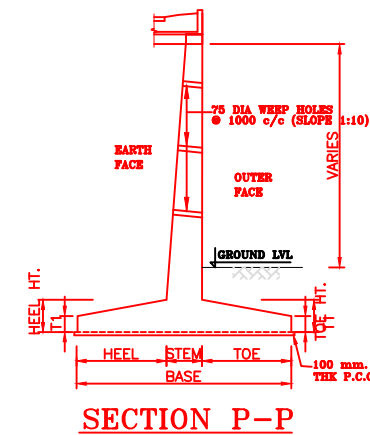
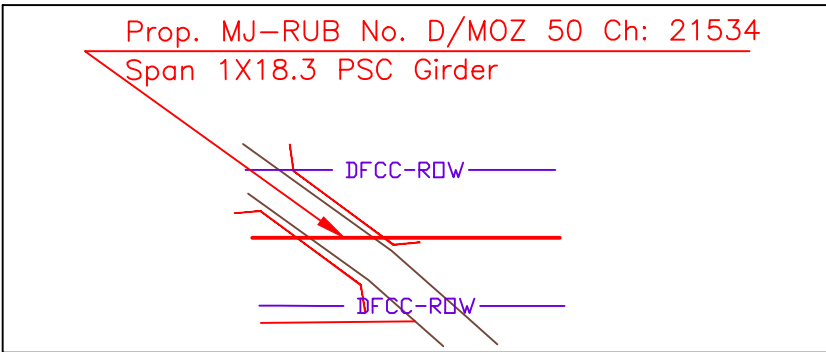
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 - DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 - THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 33 SPAN (1X30.5m) AT CH. 15800				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ33	R0



DETAIL OF ABUTMENT

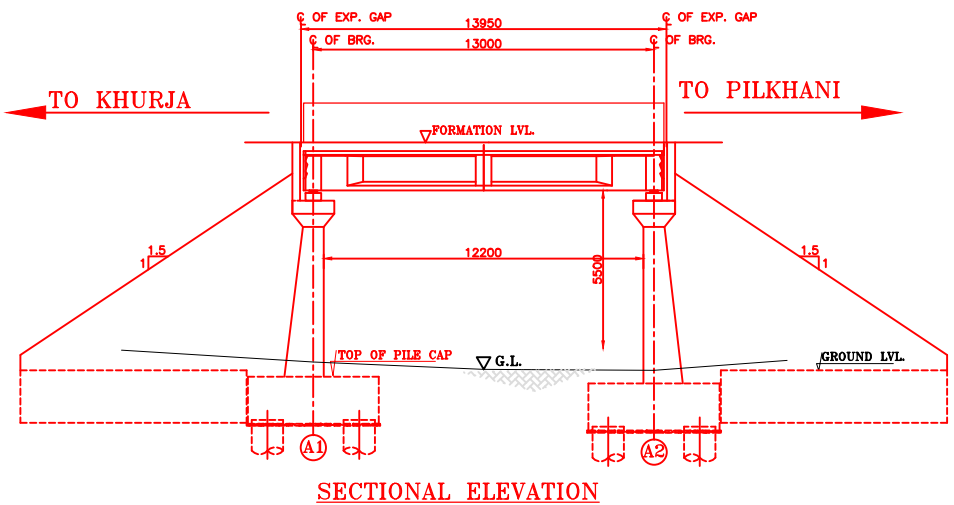


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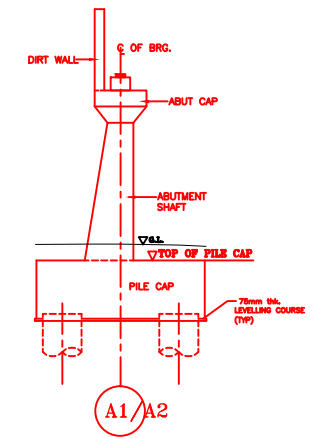
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

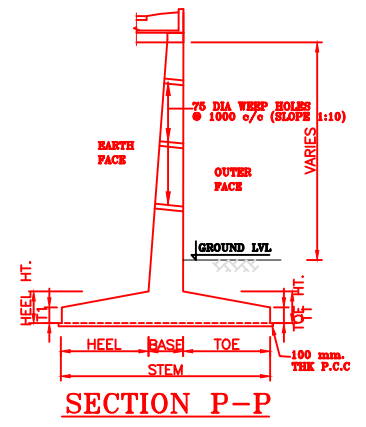
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR RUB NO. D/MOZ 50 SPAN (1X18.3m) AT CH. 21534				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ50	R0



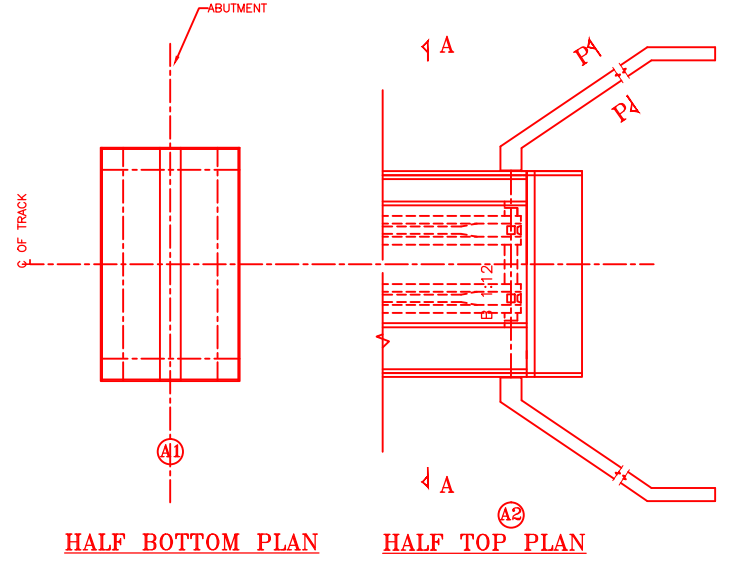
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

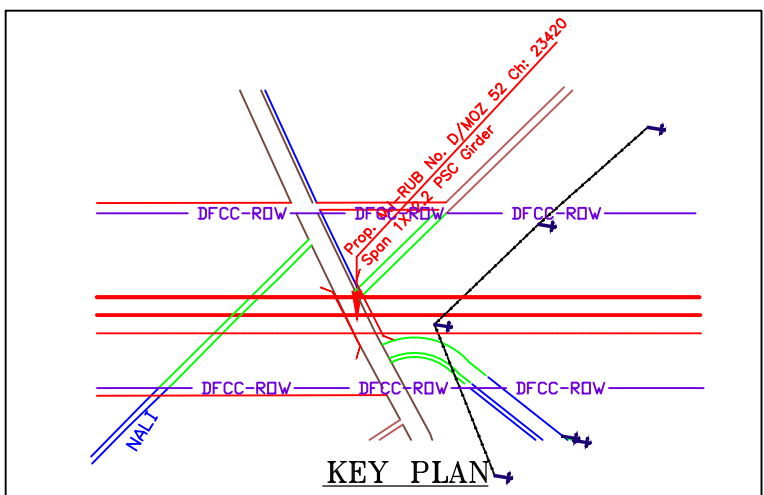


SECTION P-P



HALF BOTTOM PLAN

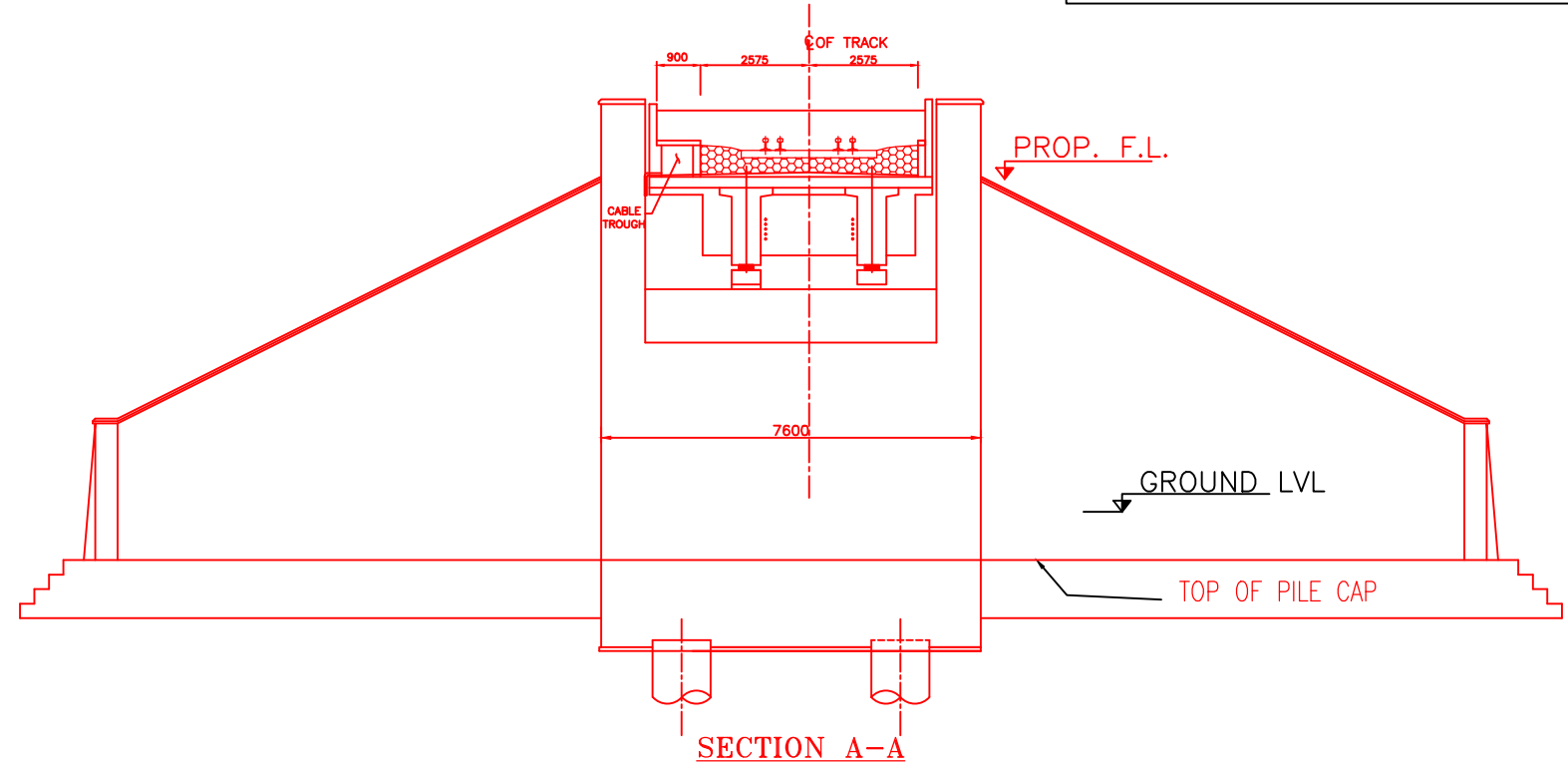
HALF TOP PLAN



KEY PLAN

NOTES:-

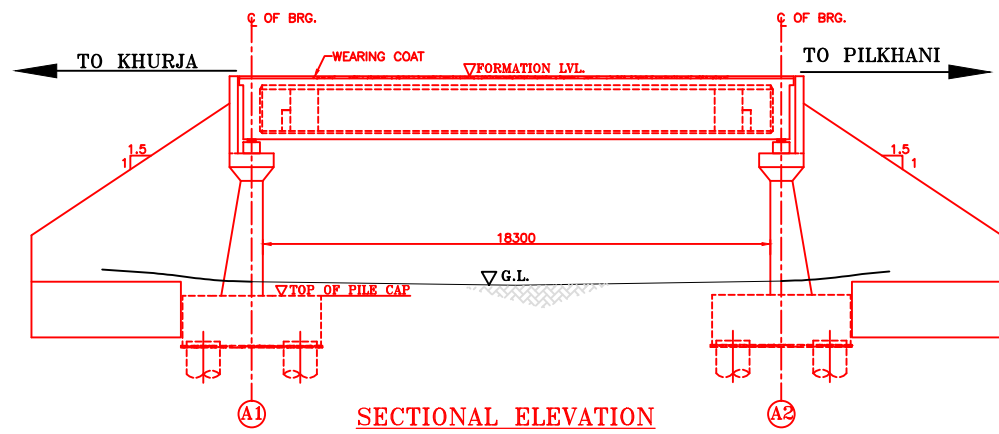
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.



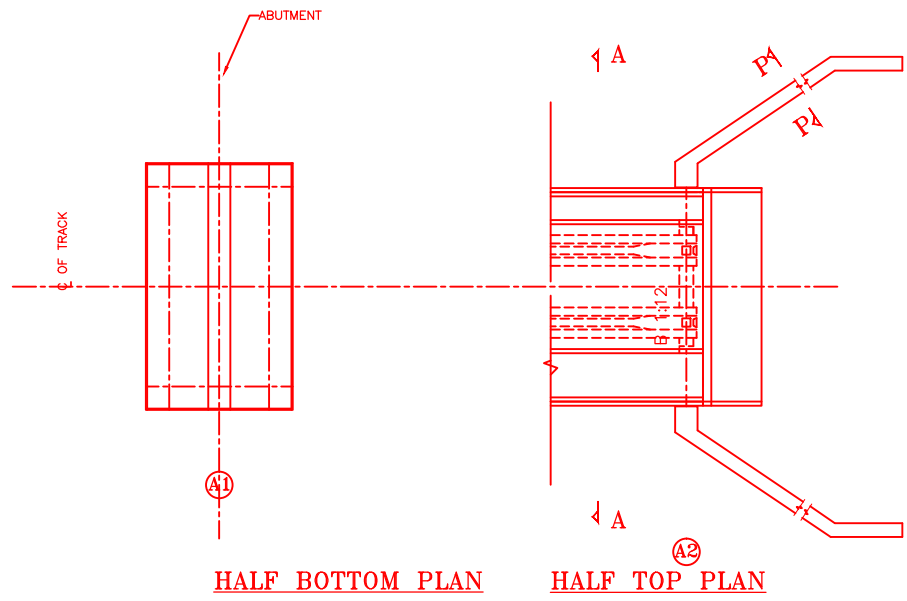
SECTION A-A

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 52 SPAN (1X12.2m) AT CH. 23420.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ52	R0

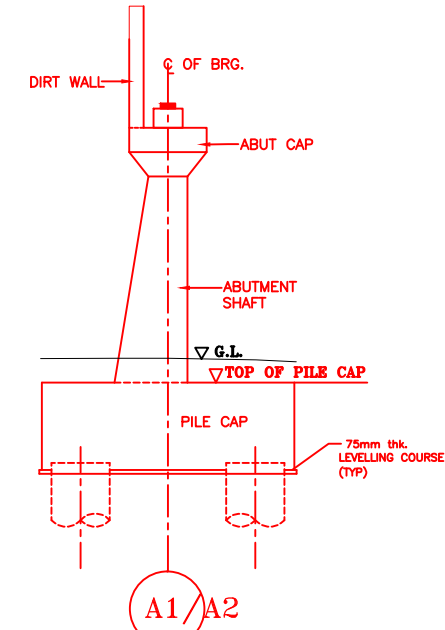


SECTIONAL ELEVATION

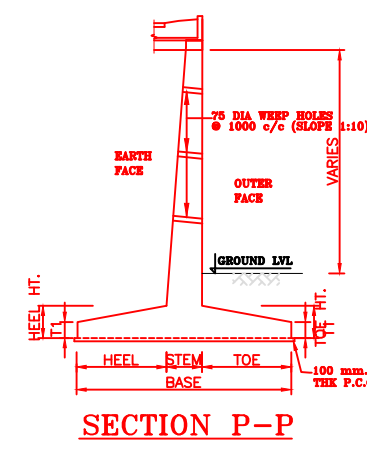
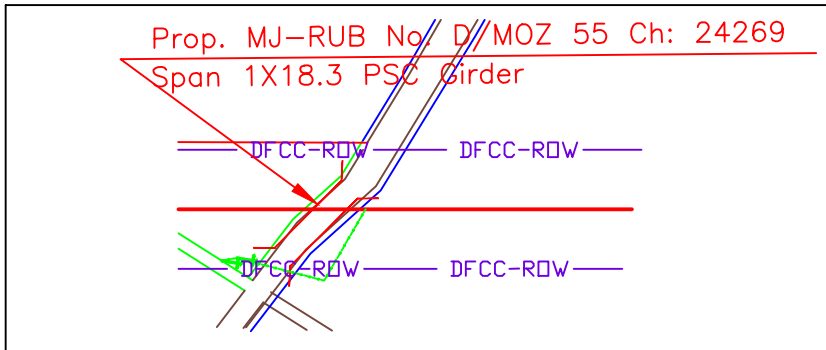


HALF BOTTOM PLAN

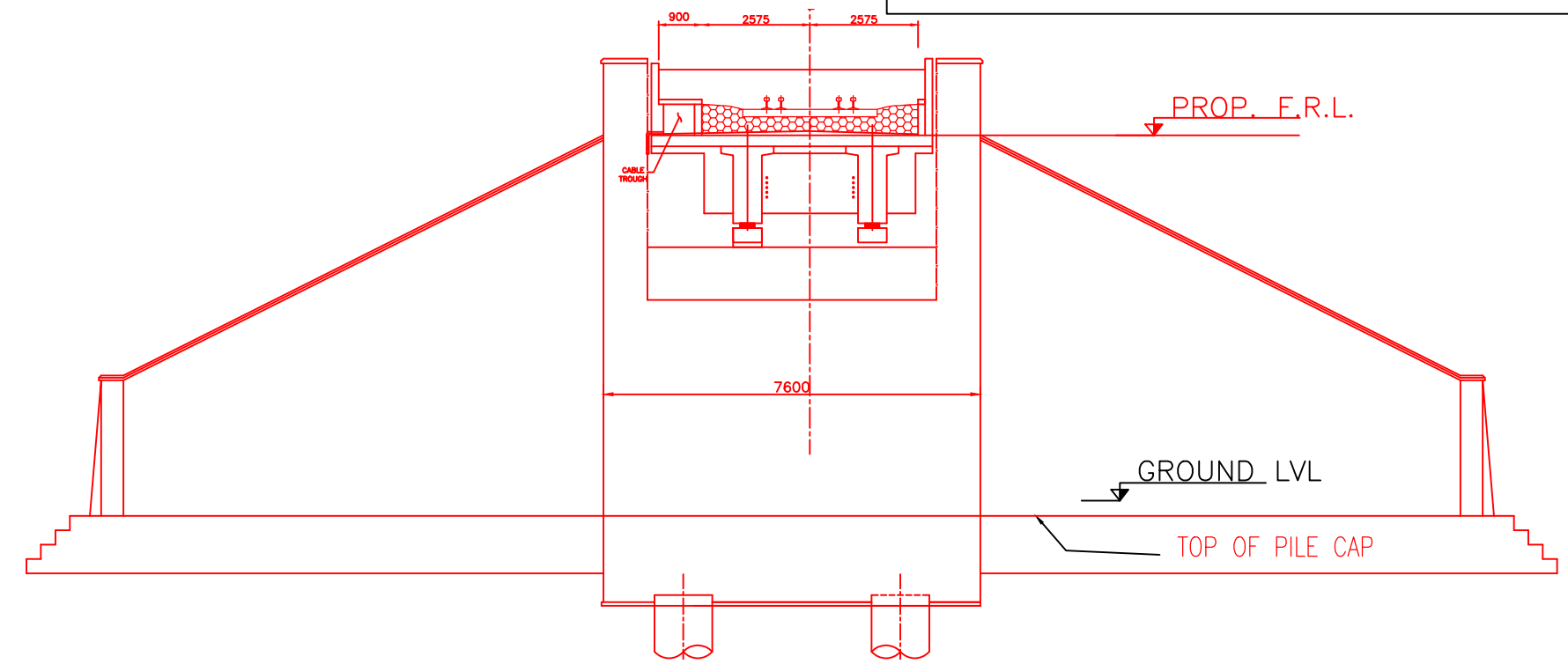
HALF TOP PLAN



DETAIL OF ABUTMENT



SECTION P-P

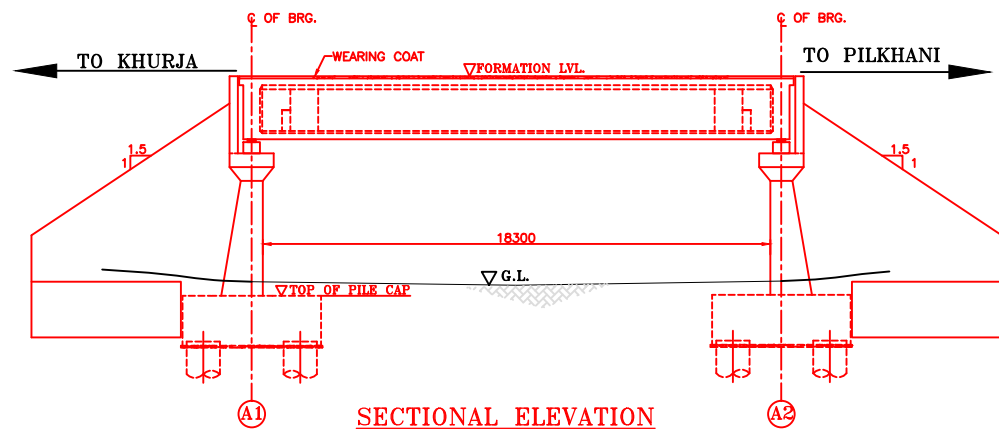


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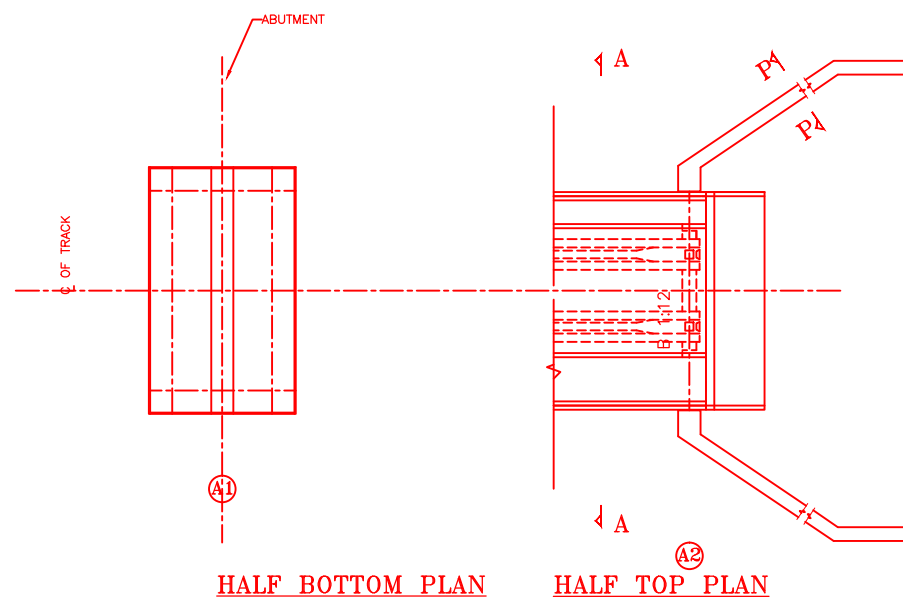
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS. ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 55 SPAN (1X18.3m) AT CH. 24269				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ55	R0

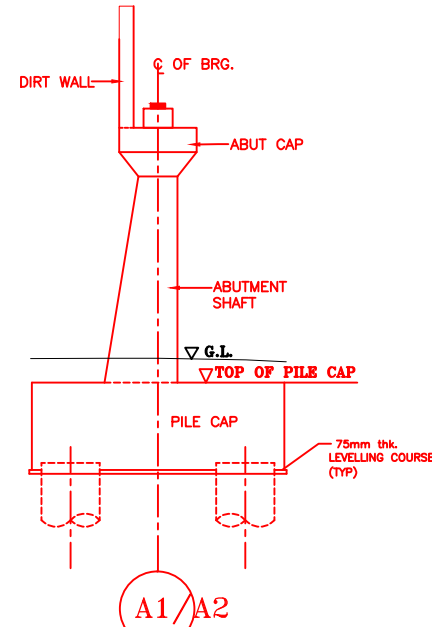


SECTIONAL ELEVATION

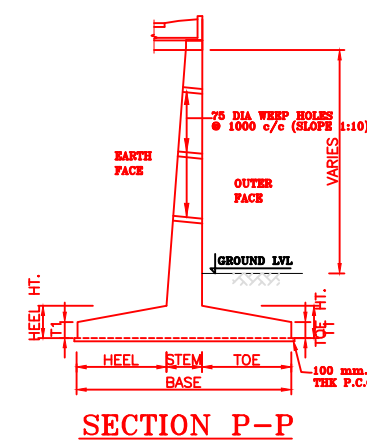
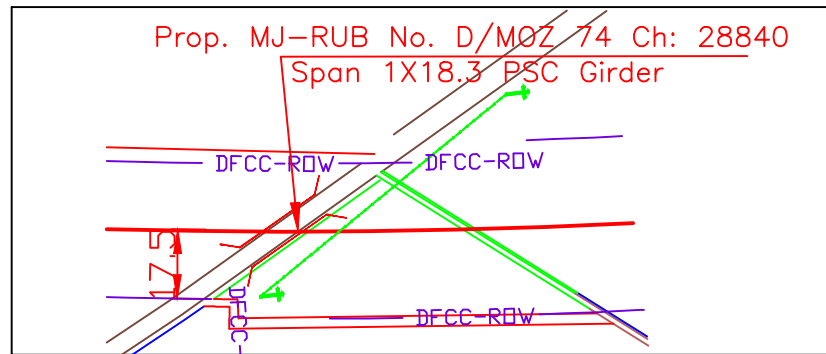


HALF BOTTOM PLAN

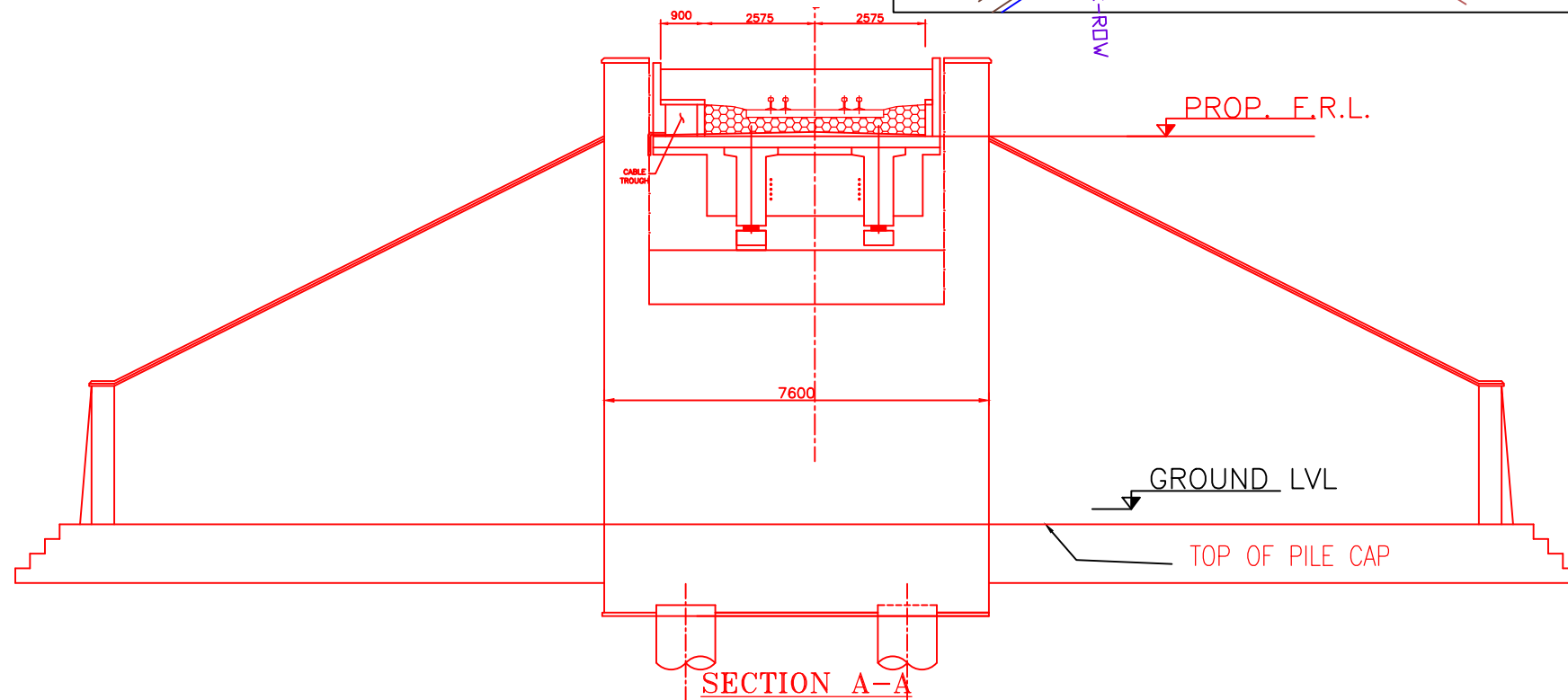
HALF TOP PLAN



DETAIL OF ABUTMENT



SECTION P-P



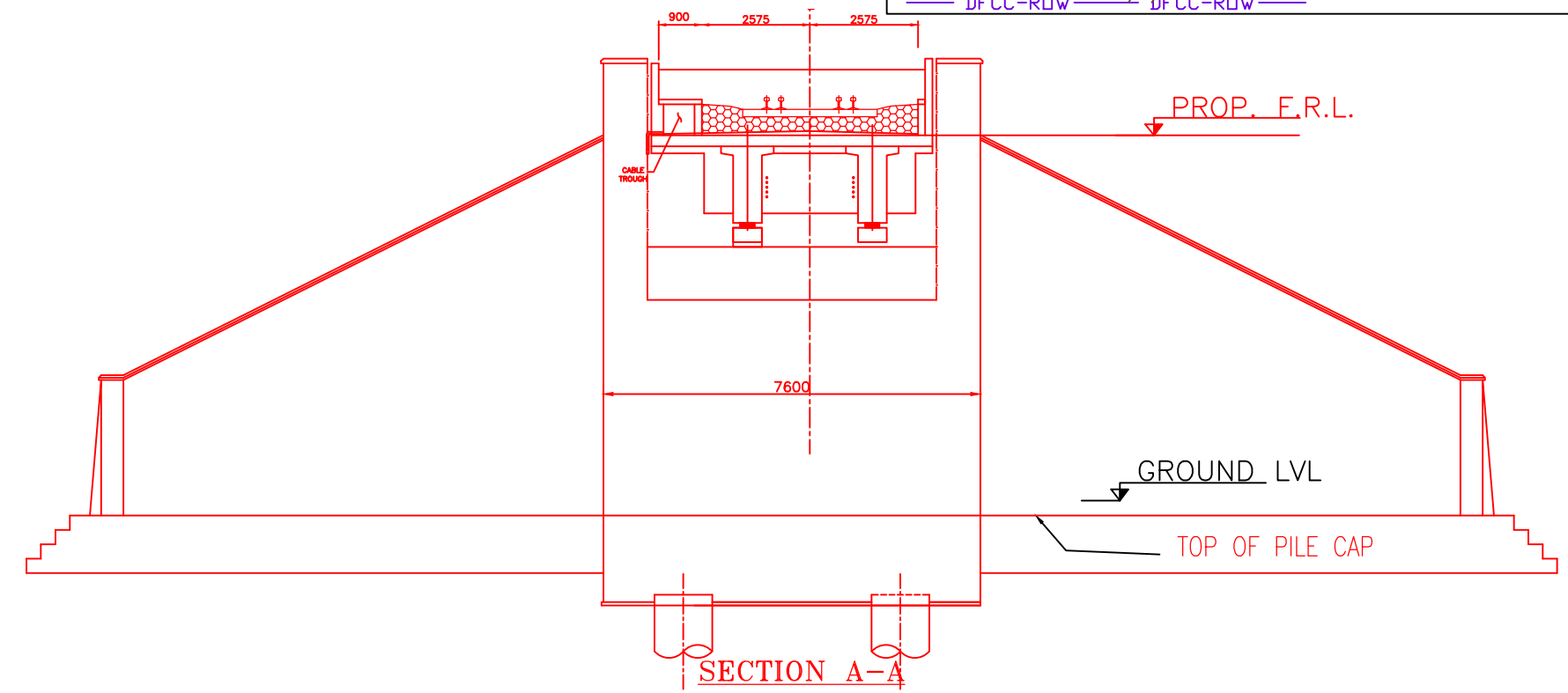
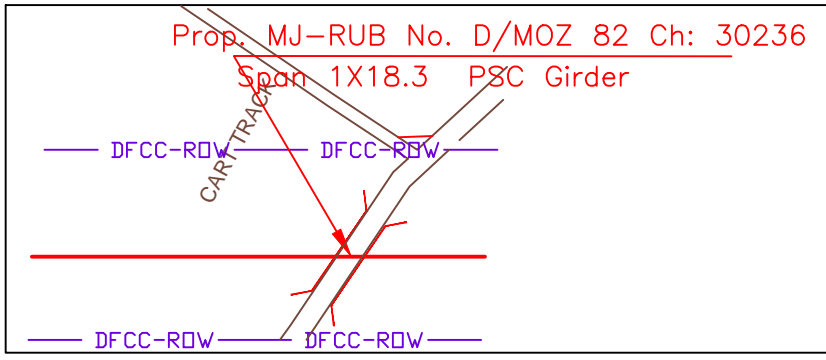
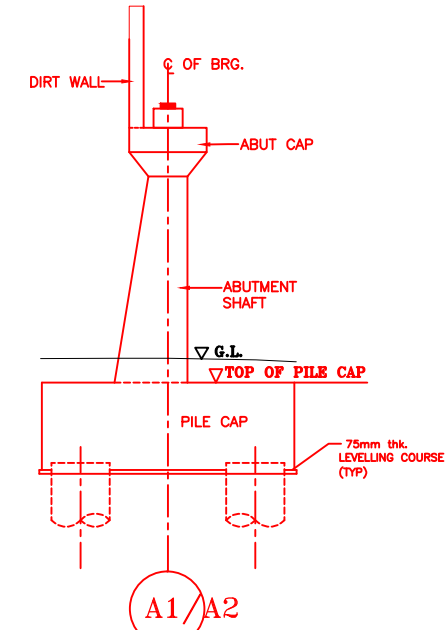
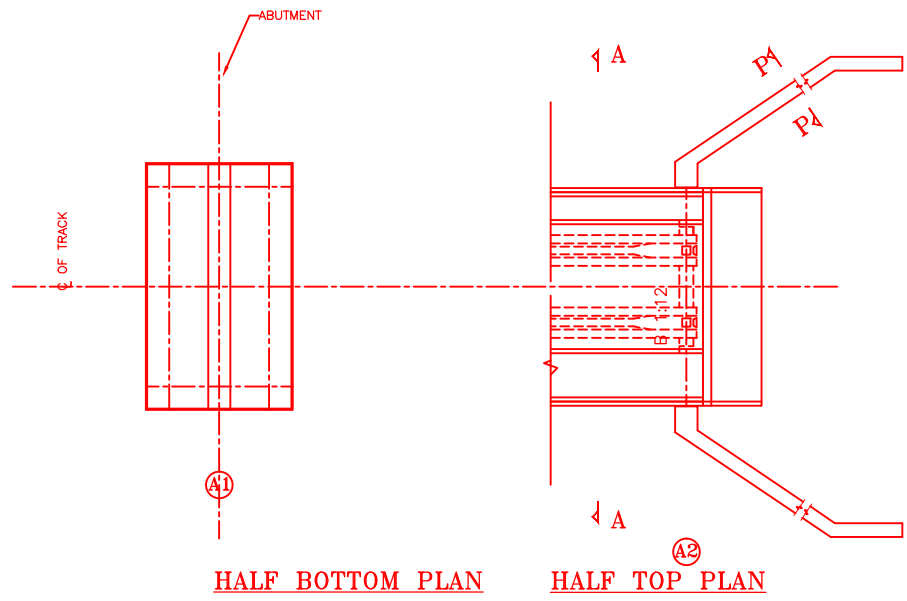
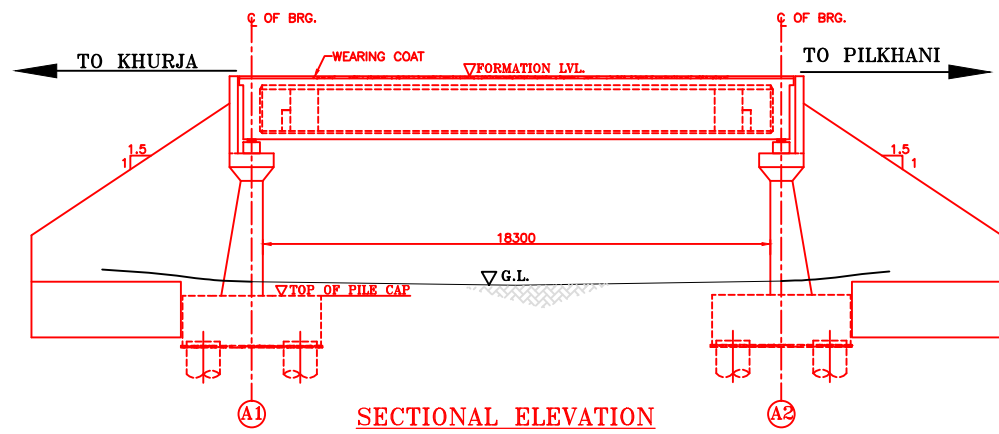
SECTION A-A

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF IS. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
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13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303		STRUCTURE				
PROPOSED MAJOR RUB NO. D/MOZ 74 SPAN (1X18.3m) AT CH. 28840		TITLE				
GENERAL ARRANGEMENT DRAWING						
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ74	R0

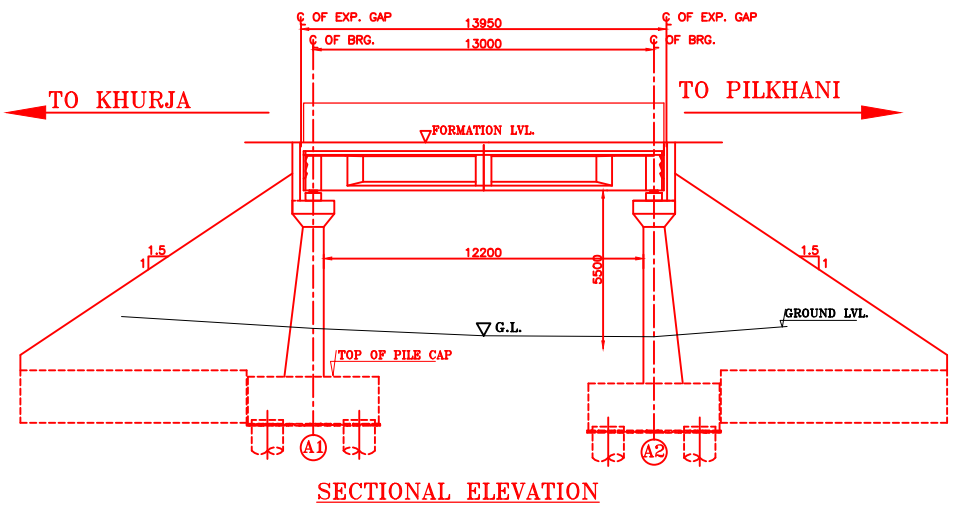


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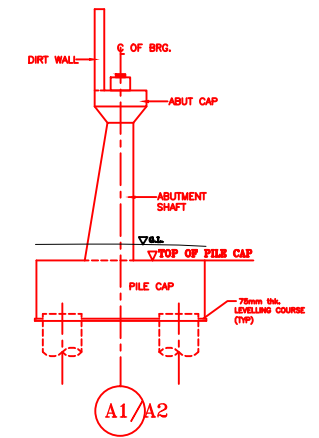
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

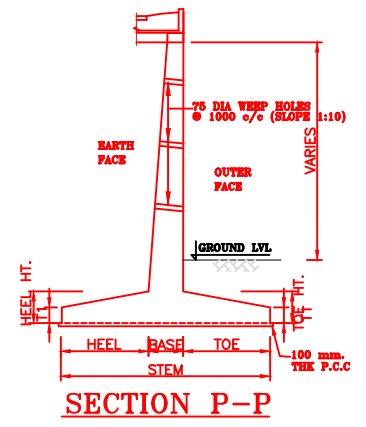
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR RUB NO. D/MOZ 82 SPAN (1X18.3m) AT CH. 30236				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ82	R0



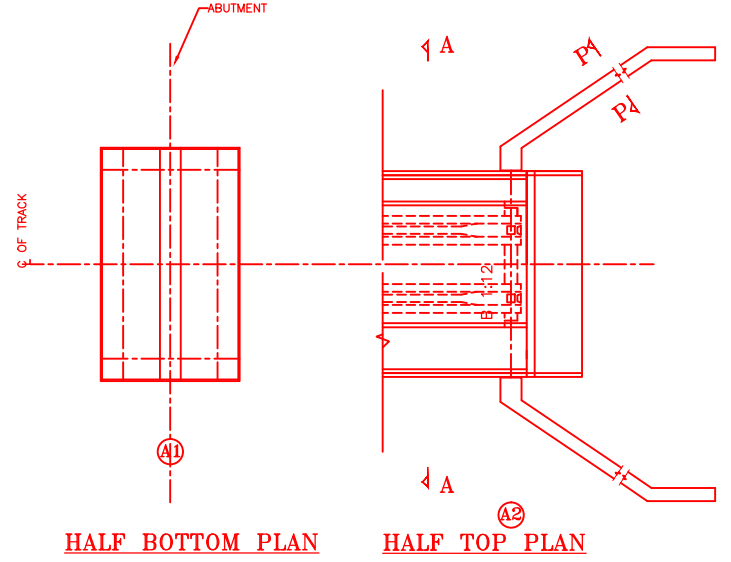
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

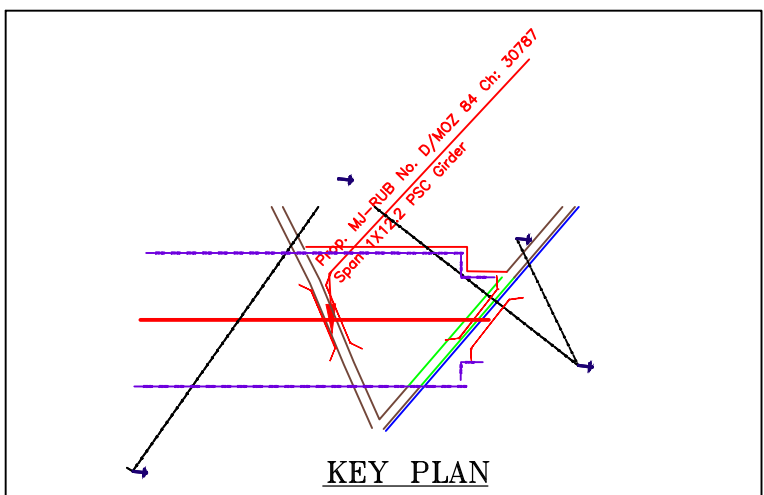


SECTION P-P



HALF BOTTOM PLAN

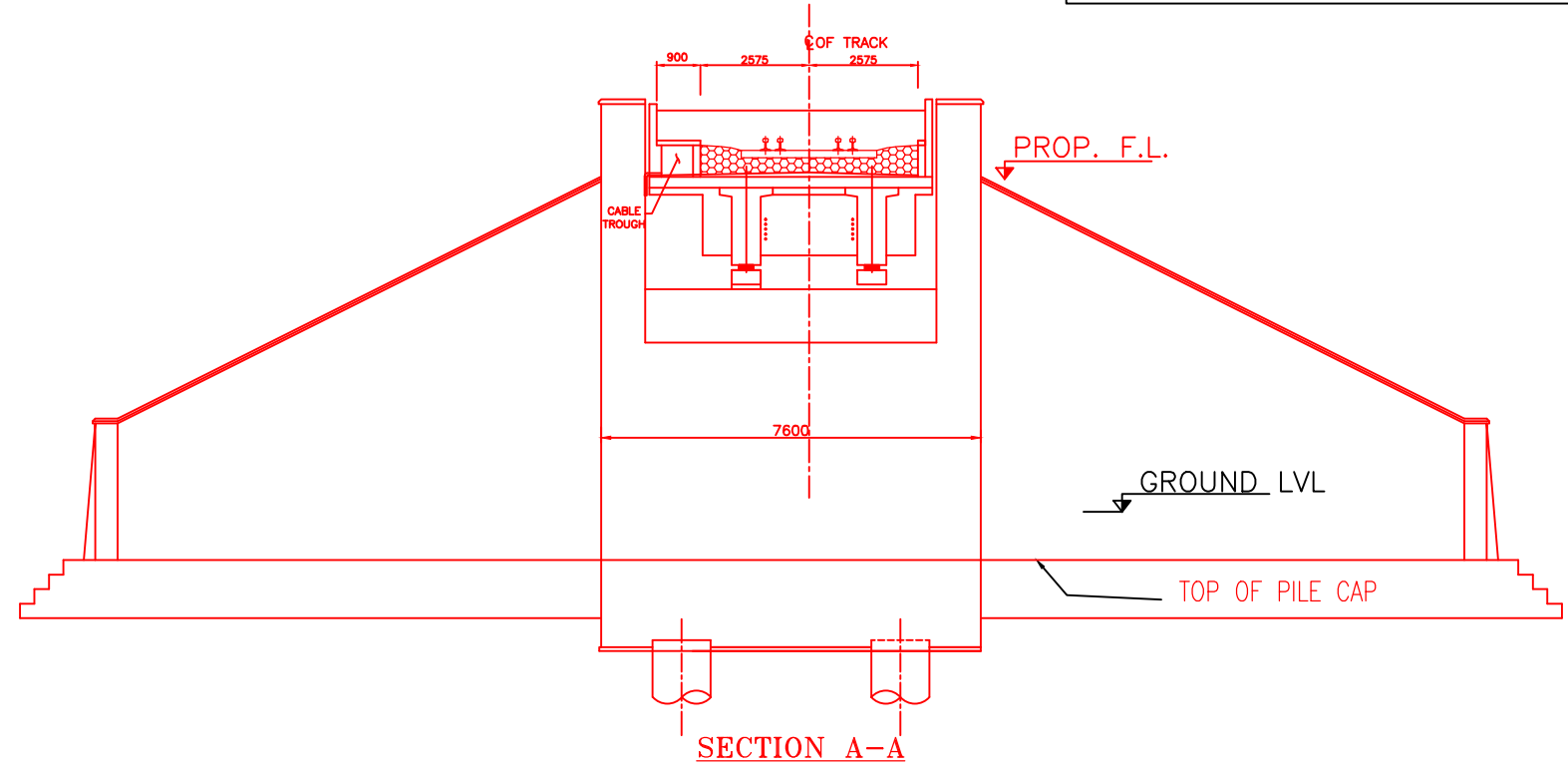
HALF TOP PLAN



KEY PLAN

NOTES:-

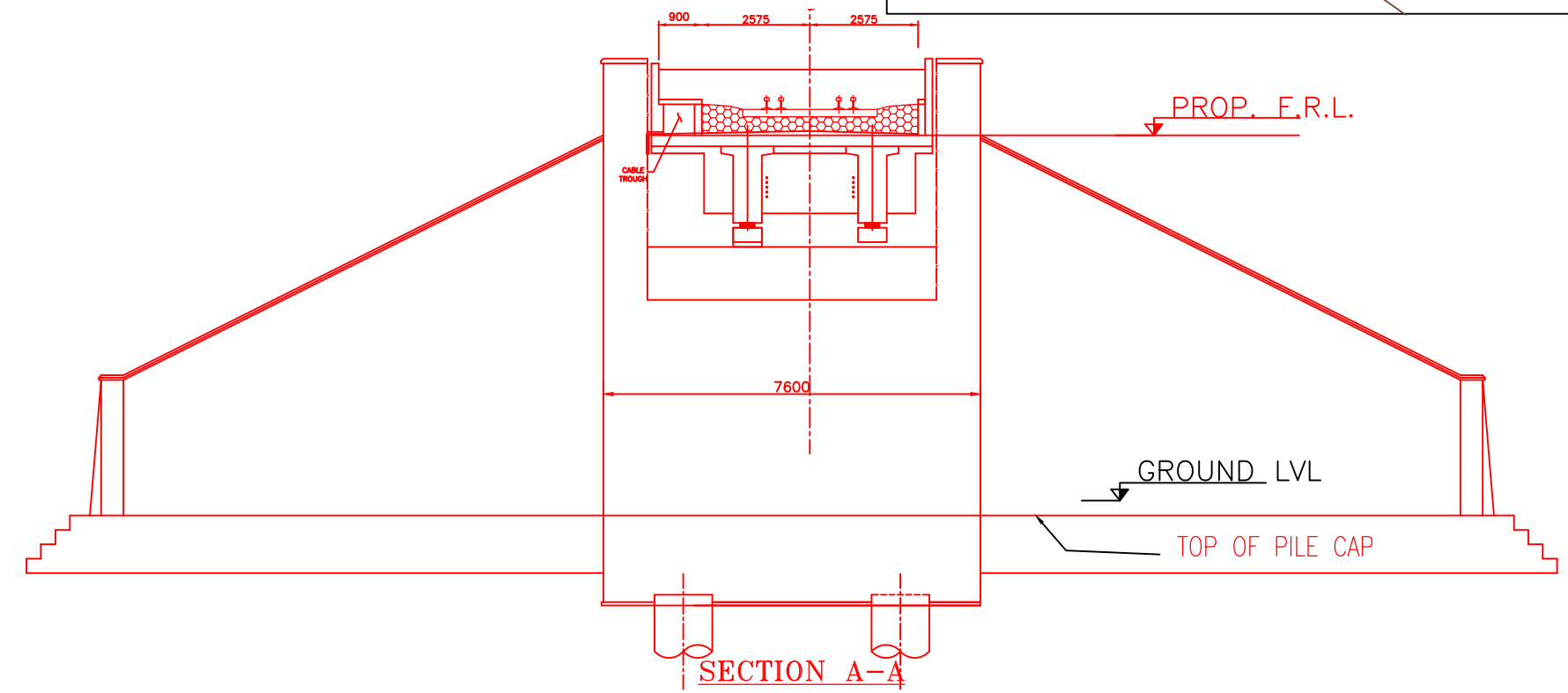
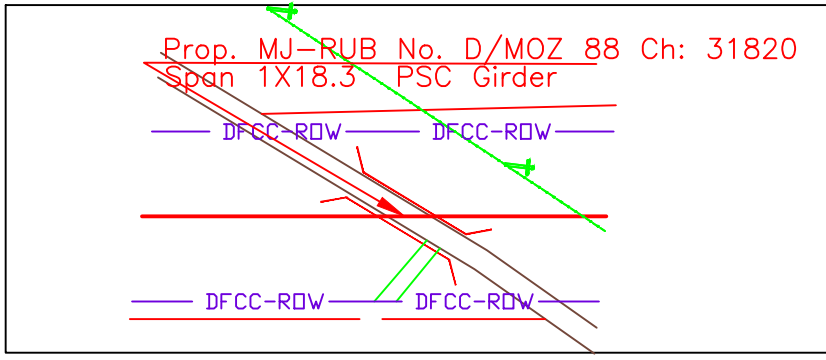
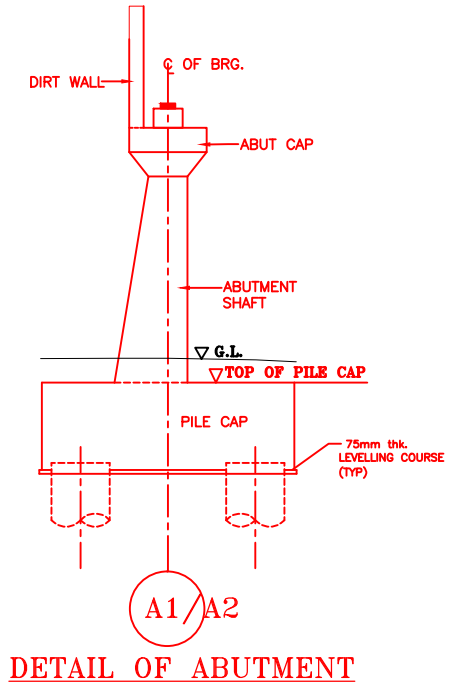
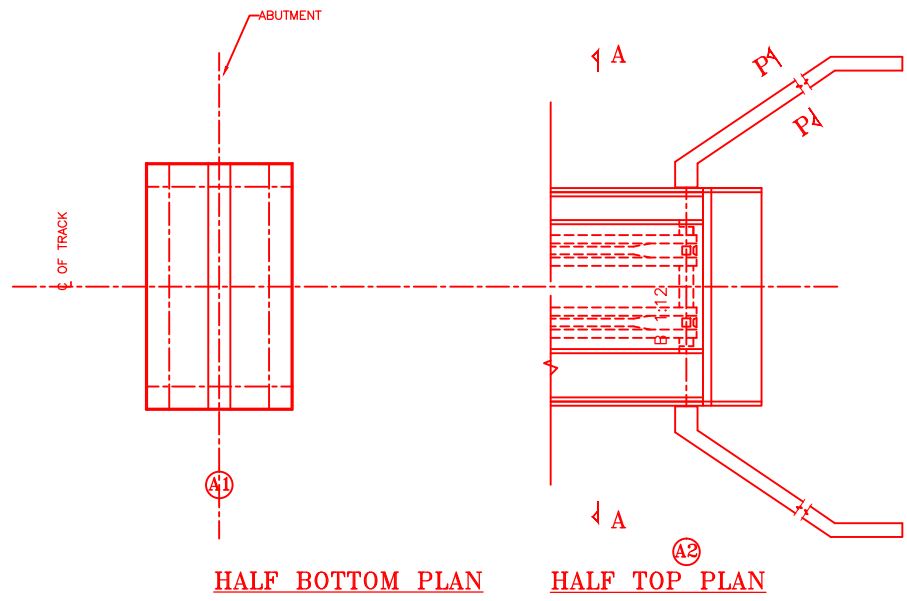
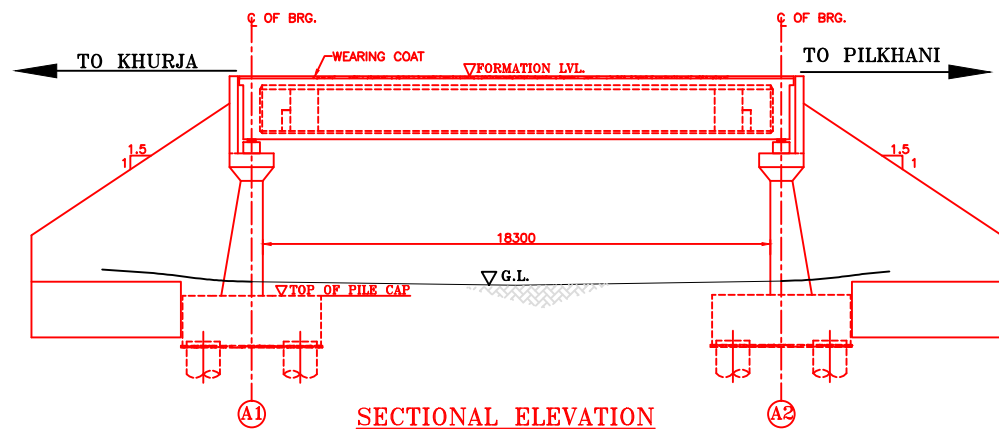
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
- a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
- HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
- ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
- SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
- TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
- MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
- THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
- IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
- IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
- THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
- THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
- WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
- STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
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- CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
- DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
- THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.



SECTION A-A

INDICATIVE DRAWING

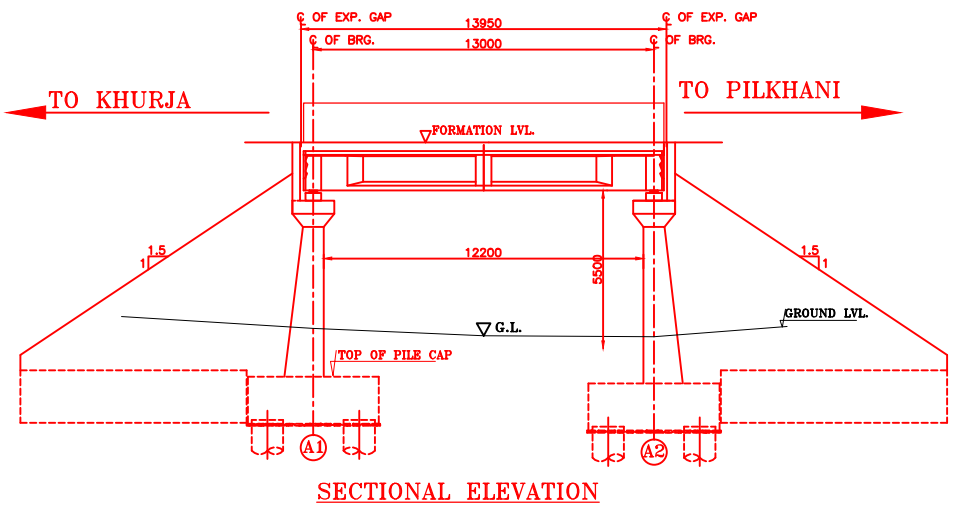
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR BR. NO. D/MOZ 84 SPAN (1X12.2m) AT CH. 30787.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ84	R0



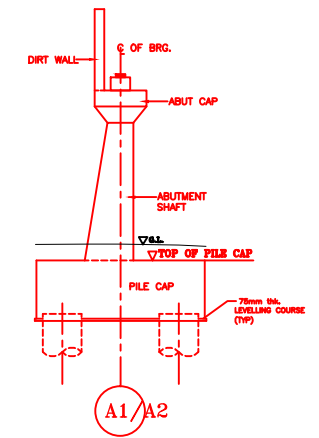
- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
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 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
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 - RELEVANT BIS CODES.
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 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
 - THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
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INDICATIVE DRAWING

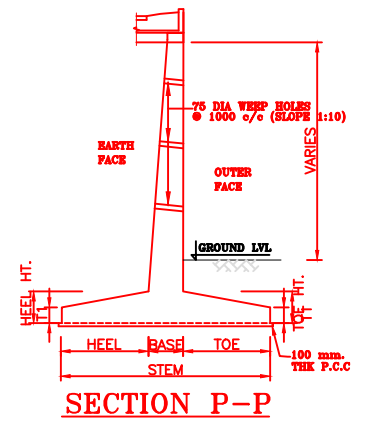
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA		
		EASTERN CORRIDOR		
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		
		CONTRACT PACKAGE - 303		
STRUCTURE		PROPOSED MAJOR RUB NO. D/MOZ 88 SPAN (1X18.3m) AT CH. 31820		
TITLE		GENERAL ARRANGEMENT DRAWING		
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY
NTS	JUNE 2016			
DRG. NO.				REV.
AECOM/303/MJR-RUB/D/MOZ88				R0



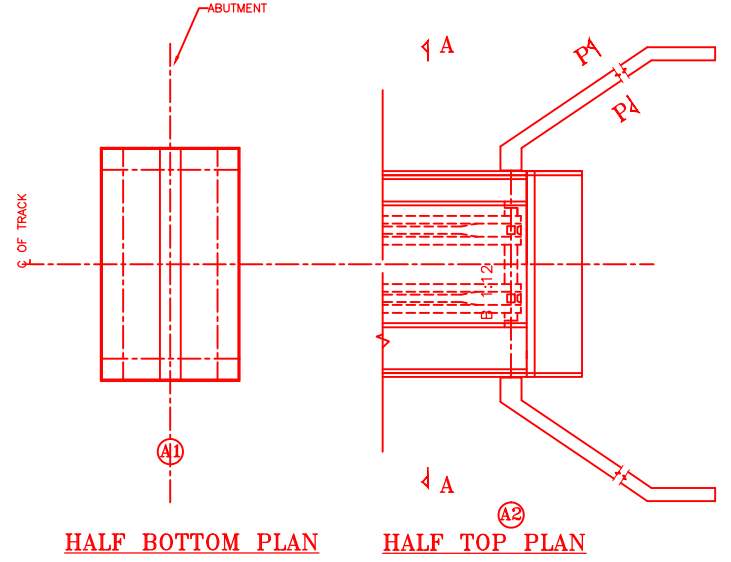
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

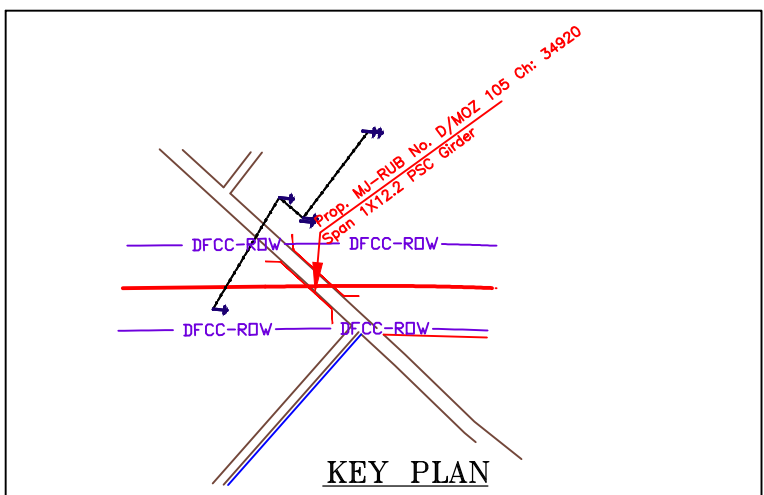


SECTION P-P

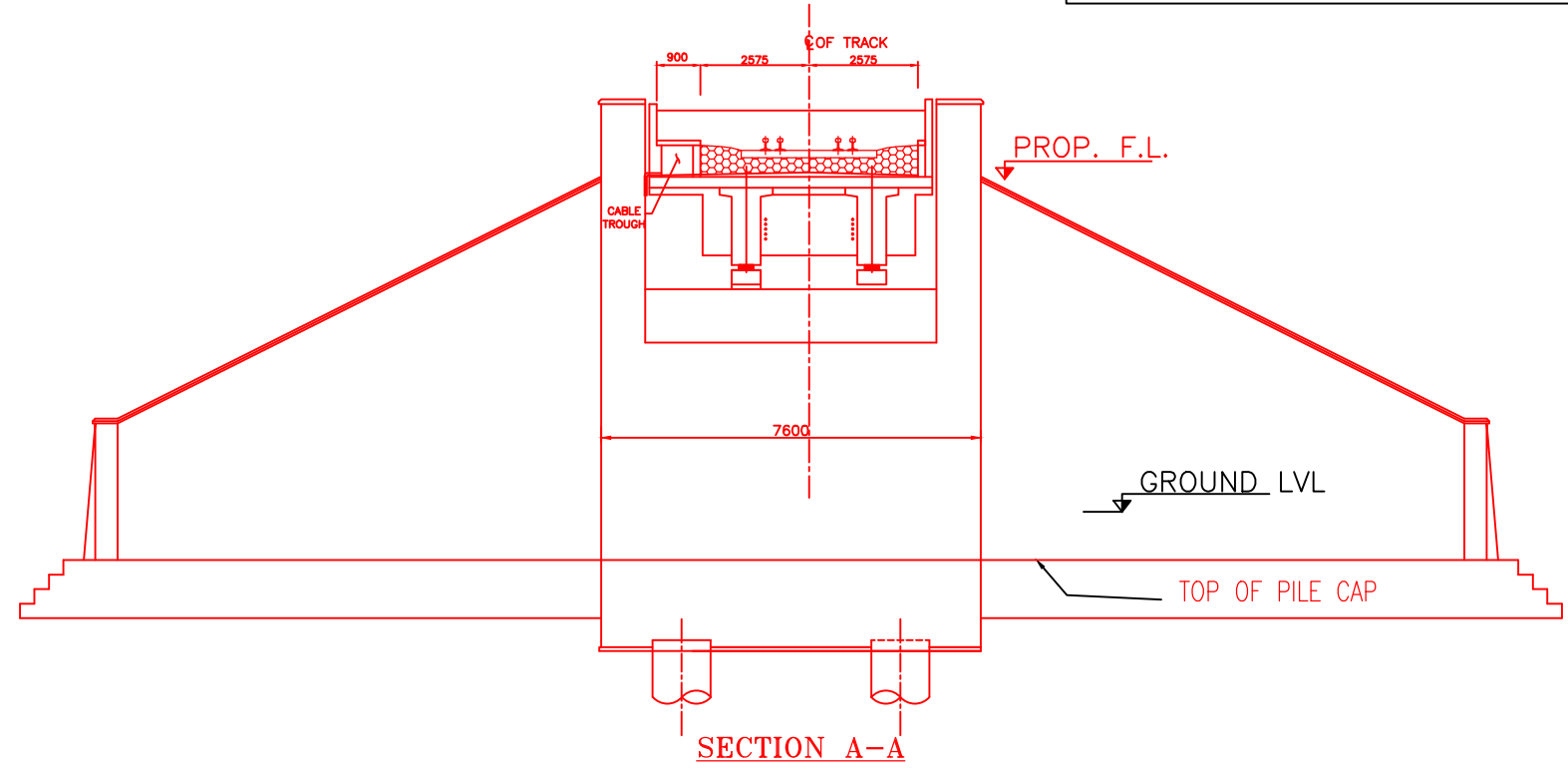


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



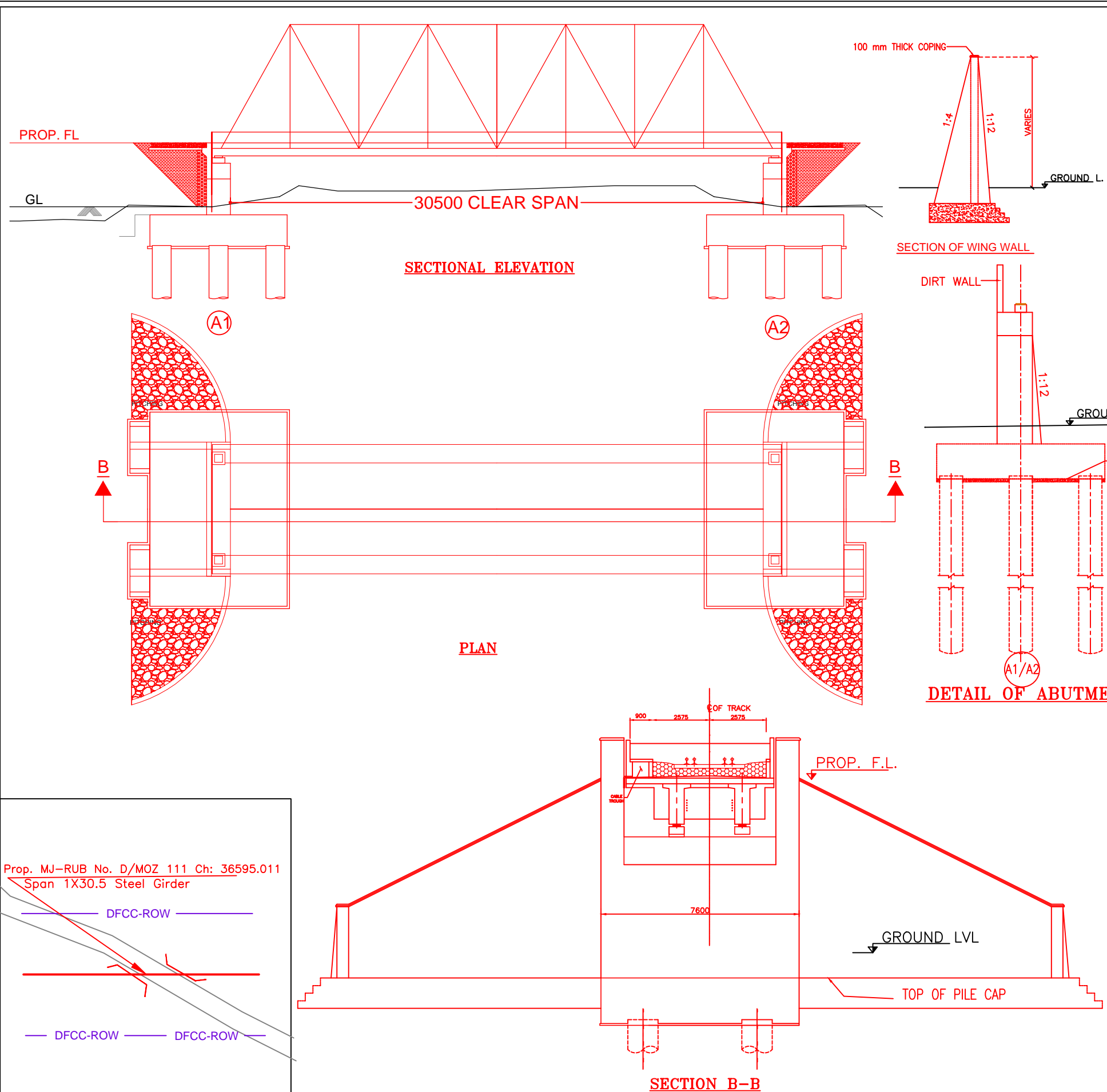
SECTION A-A

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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 - v) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL.
9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
12. THE RUBs SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT
13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

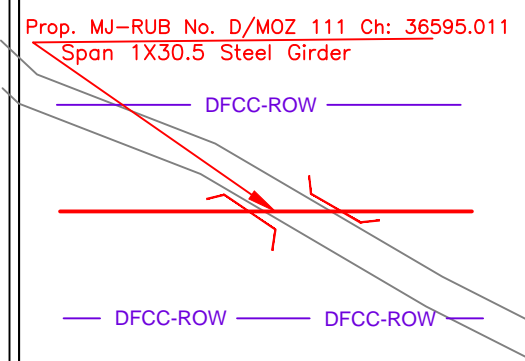
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 105 SPAN (1X12.2m) AT CH. 34920.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ105	R0

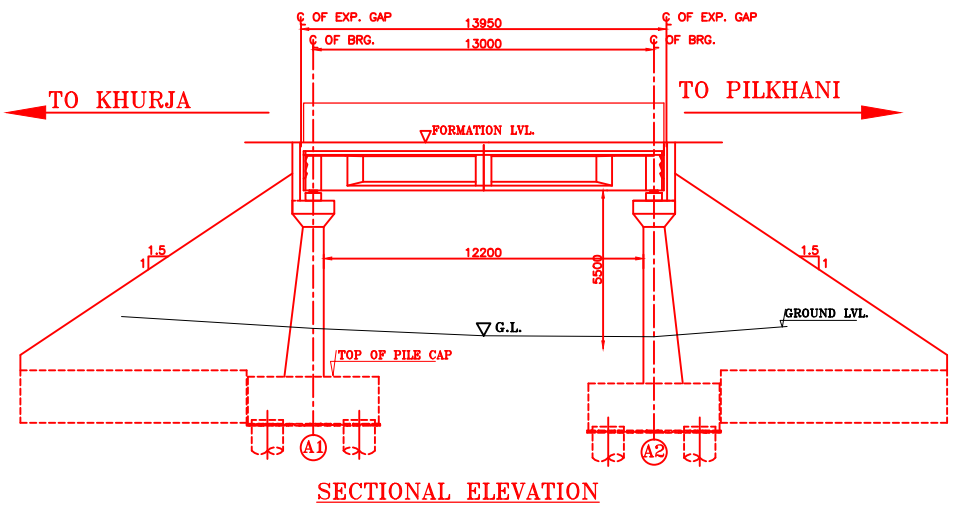


- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 - a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - IRS BRIDGE RULES.
 - IRS CONCRETE BRIDGE CODE.
 - IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RELEVANT IRC CODES OF PSC.
 - RELEVANT BIS CODES.
 - b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 - HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
 - TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 - MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL
 - THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBSTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION.
 - IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED.
 - IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
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 - THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 - WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
 - STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
 - WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 - CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
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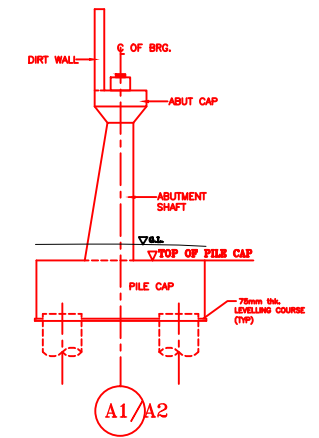
INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.		
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA		
		EASTERN CORRIDOR		
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)		
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR RUB NO. D/MOZ 111 SPAN (1X30.5m) AT CH. 36595.011		
TITLE		GENERAL ARRANGEMENT DRAWING		
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY
NTS	JUNE 2016			
DRG. NO.				REV.
AECOM/303/MJR-RUB/D/MOZ111				R0

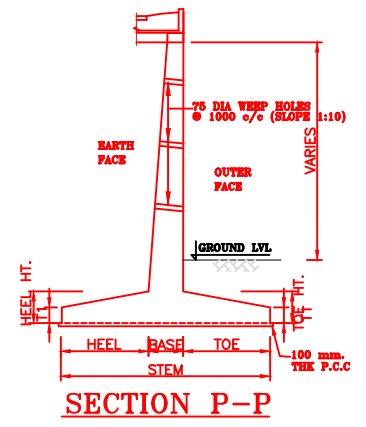




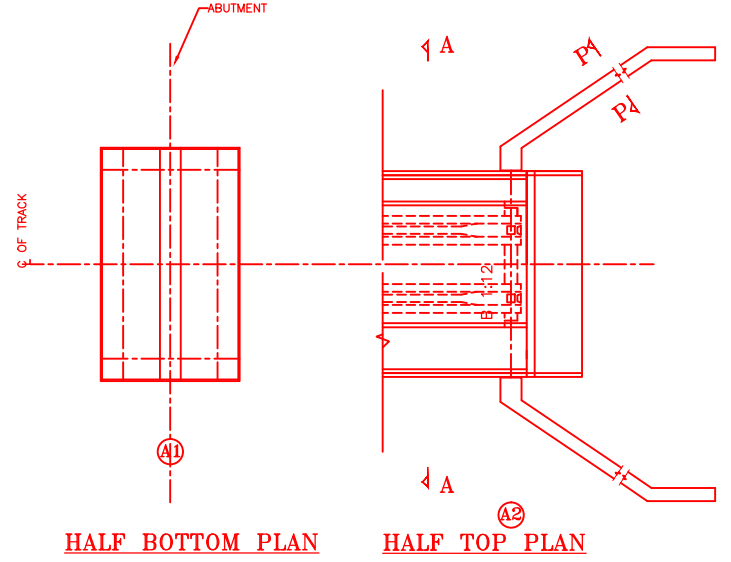
SECTIONAL ELEVATION



DETAIL OF ABUTMENT

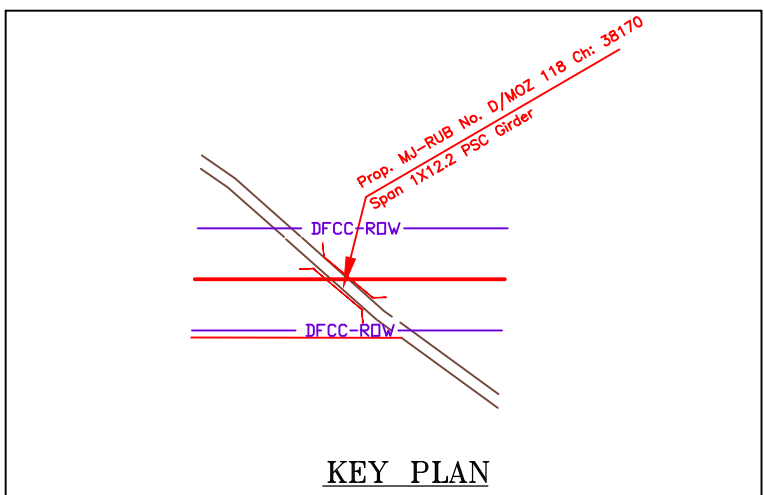


SECTION P-P



HALF BOTTOM PLAN

HALF TOP PLAN



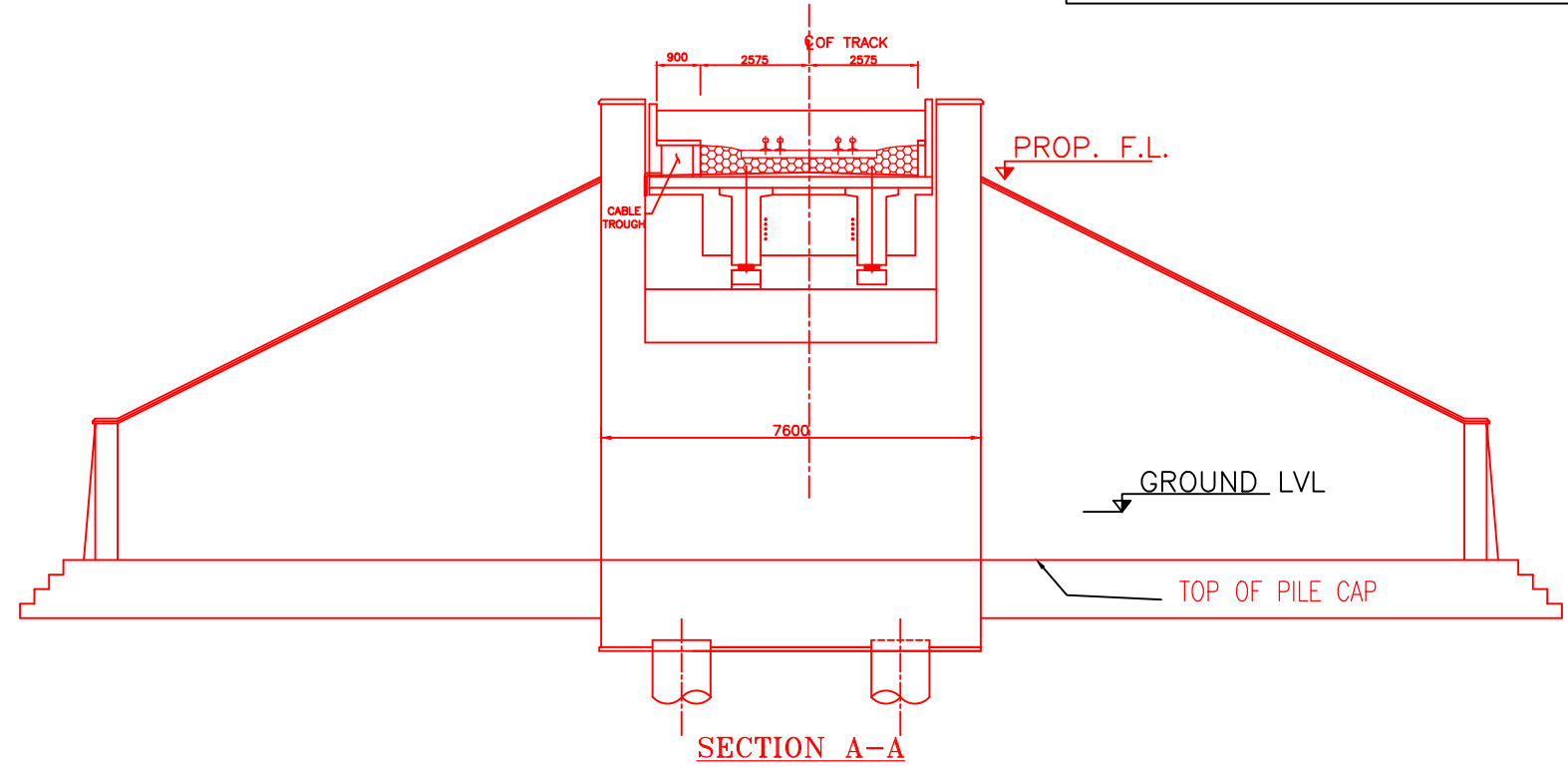
KEY PLAN

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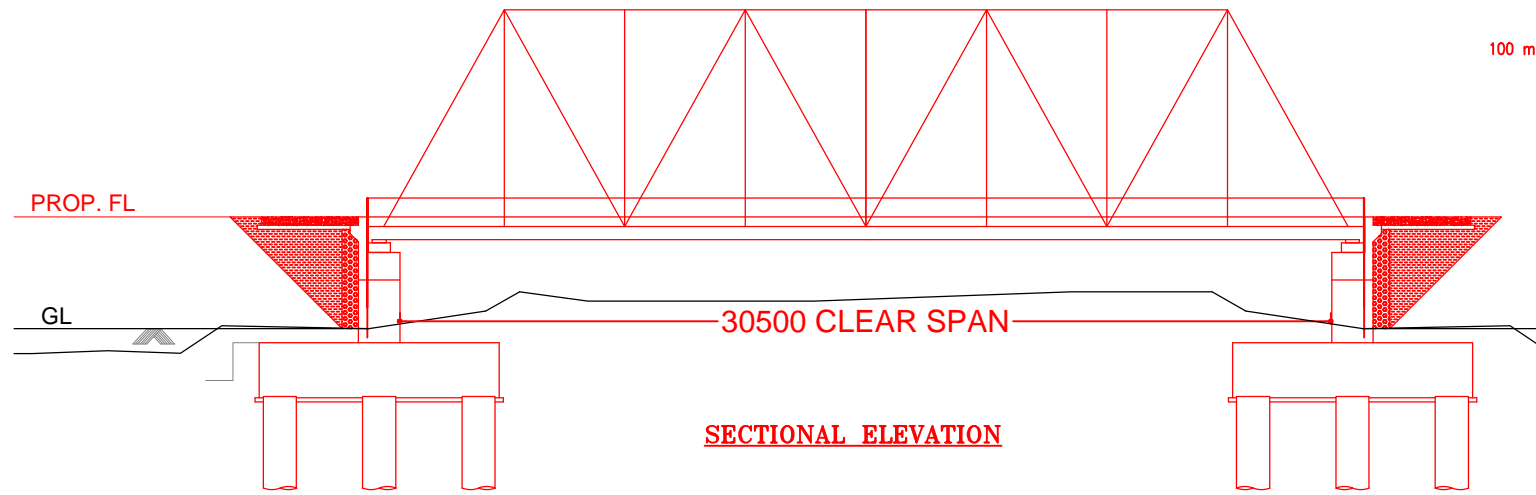
1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
 - i) IRS BRIDGE RULES.
 - ii) IRS CONCRETE BRIDGE CODE.
 - iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - iv) RELEVANT IRC CODES OF PSC.
 - v) RELEVANT BIS CODES.
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7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 mm DISTANCE FROM THE TOP OF RCC PEDESTAL
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INDICATIVE DRAWING

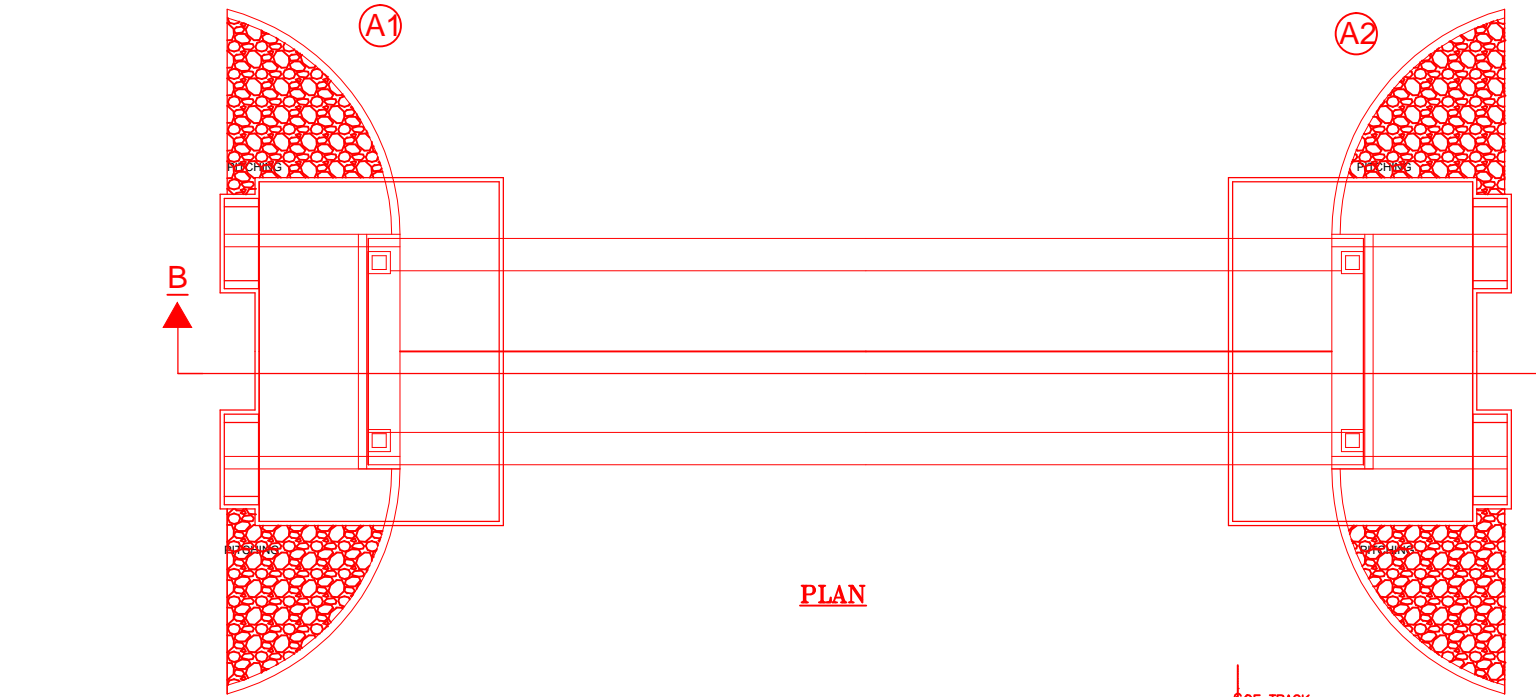
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 118 SPAN (1X12.2m) AT CH. 38170.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ118	R0



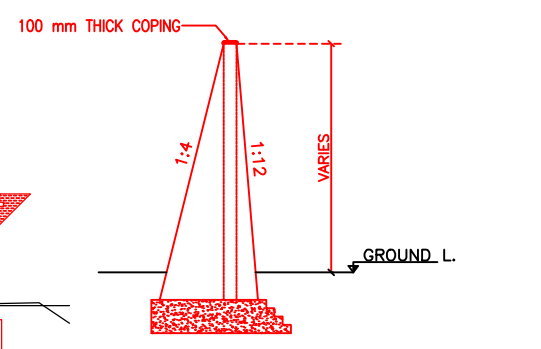
SECTION A-A



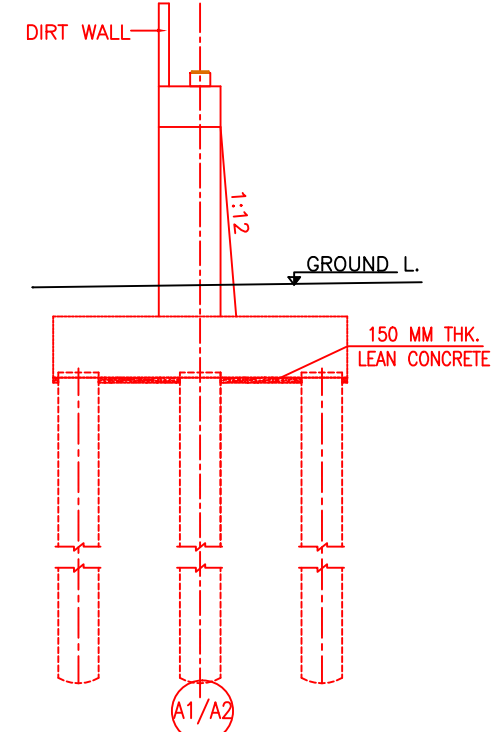
SECTIONAL ELEVATION



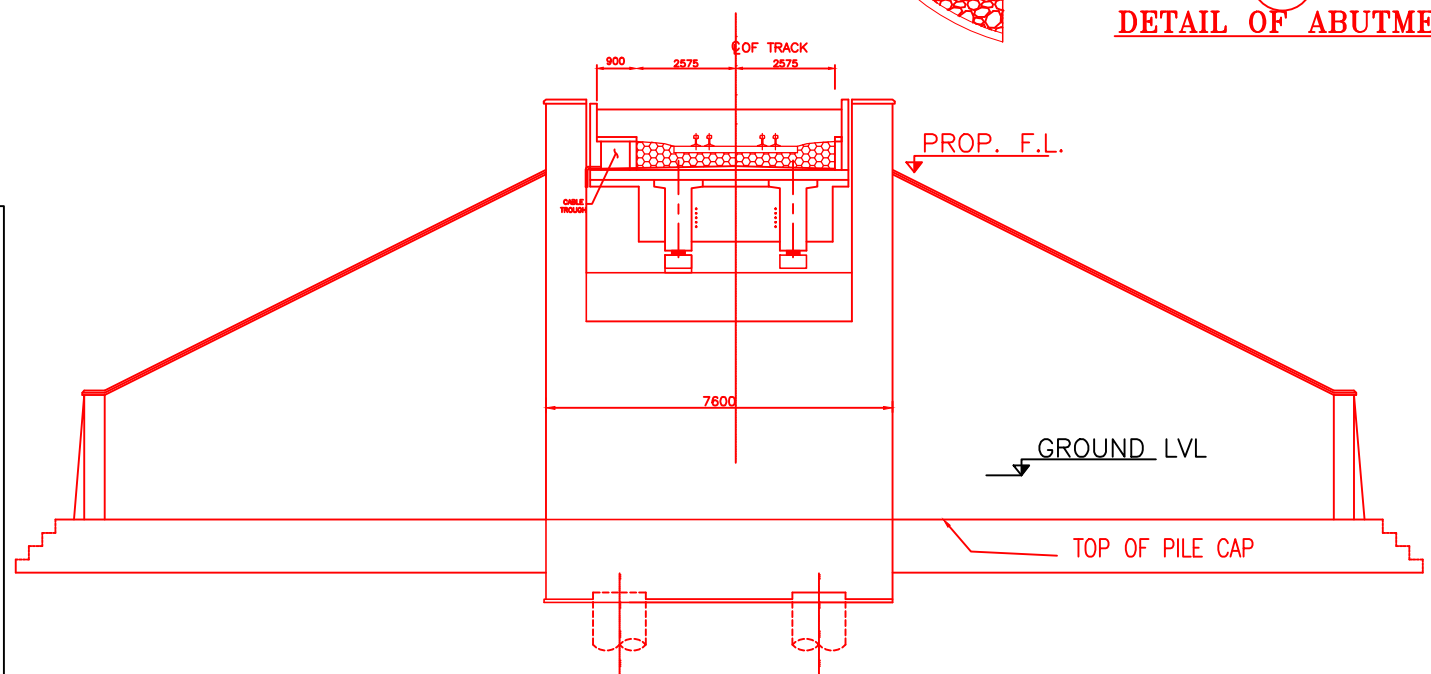
PLAN



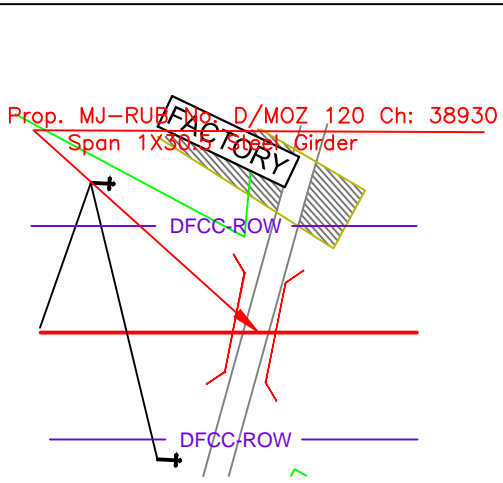
SECTION OF WING WALL



DETAIL OF ABUTMENT



SECTION B-B

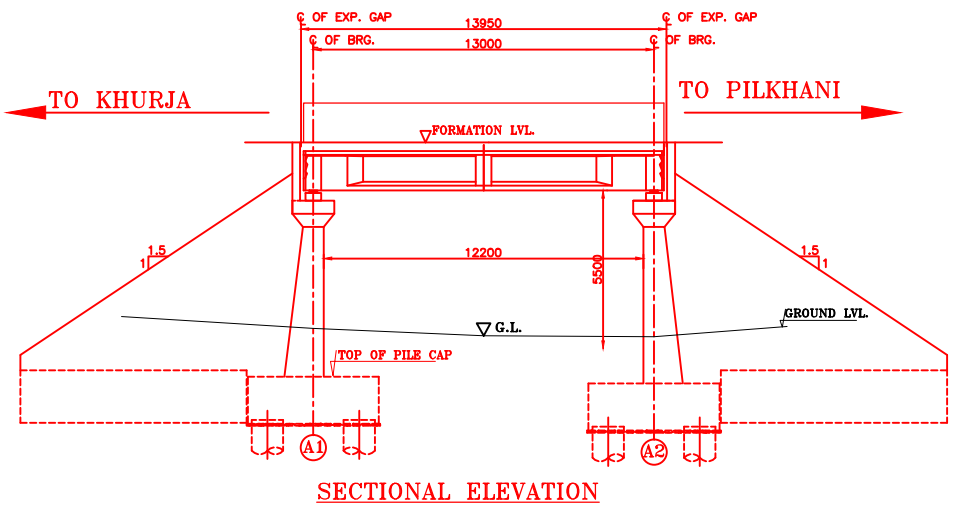


NOTES:-

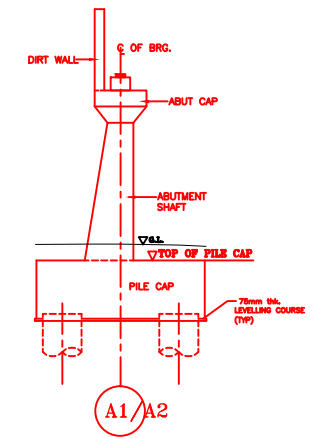
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INDICATIVE DRAWING

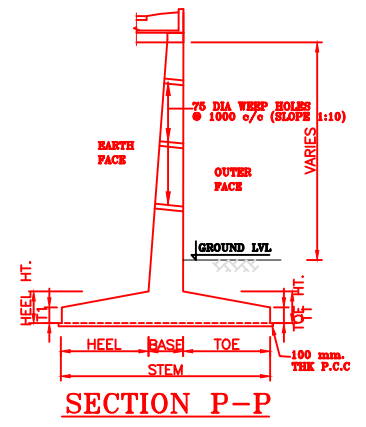
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		PROPOSED MAJOR RUB NO. D/MOZ 120 SPAN (1X30.5m) AT CH. 38930				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ120	R0



SECTIONAL ELEVATION



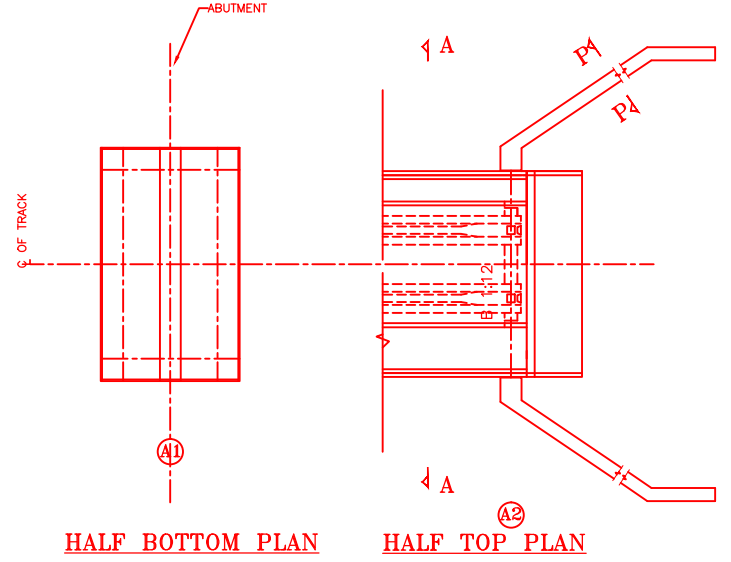
DETAIL OF ABUTMENT



SECTION P-P

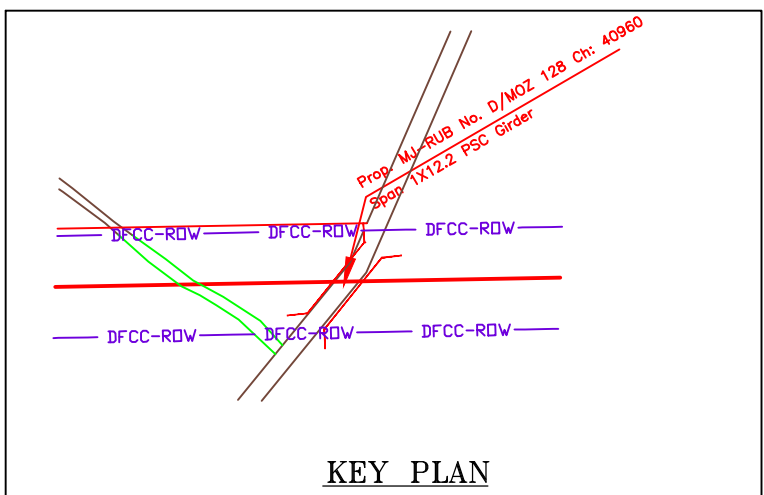
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
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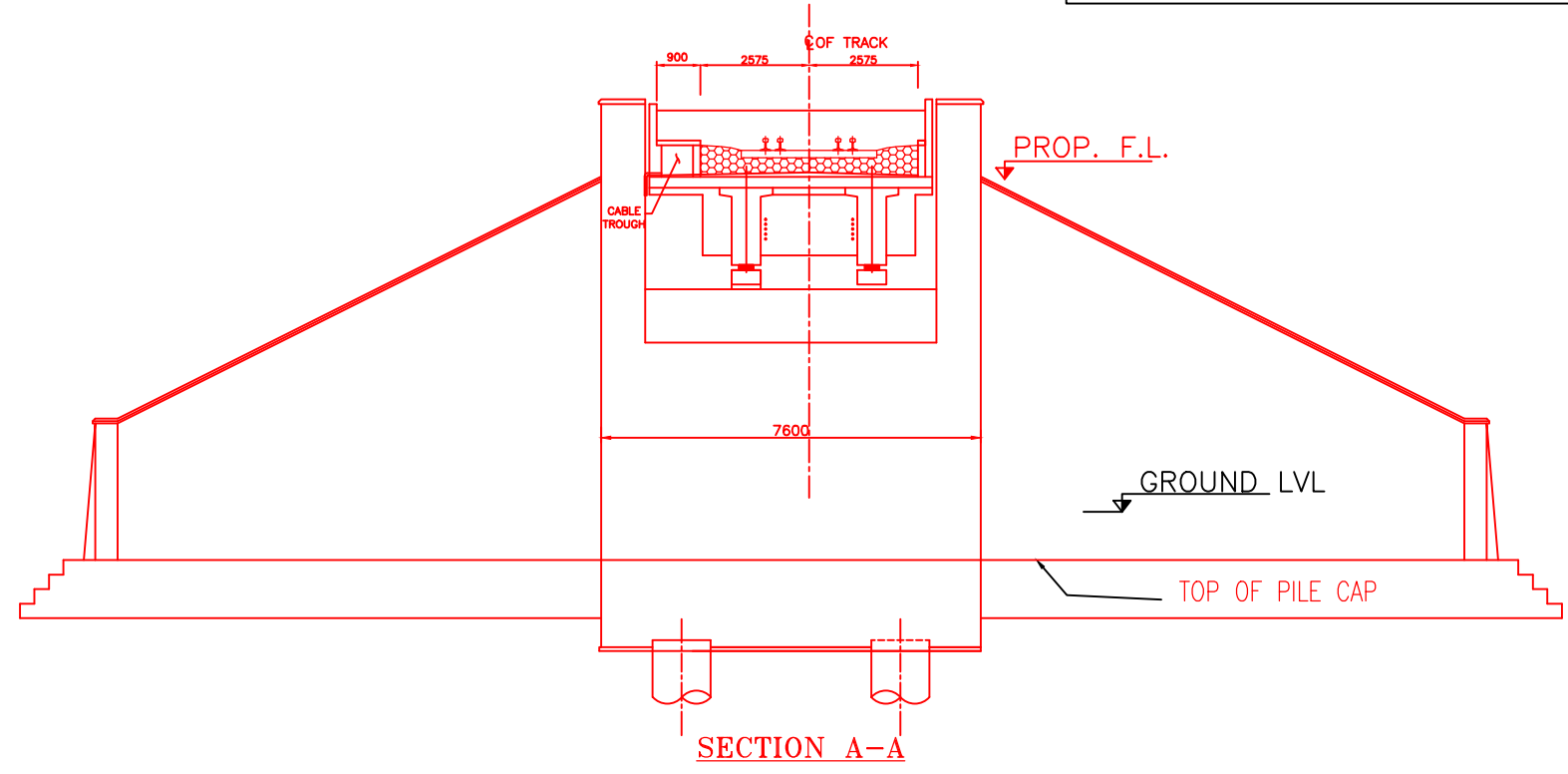


HALF BOTTOM PLAN

HALF TOP PLAN



KEY PLAN



SECTION A-A

INDICATIVE DRAWING

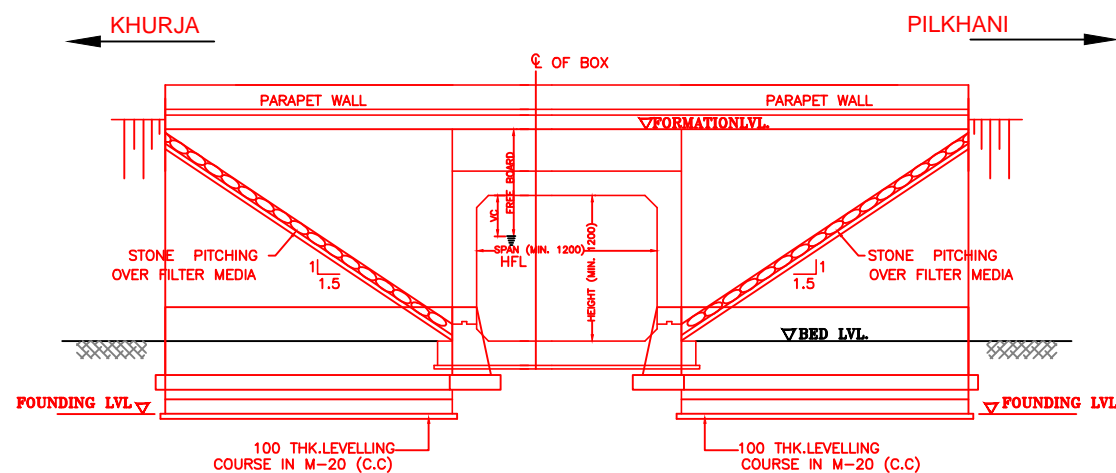
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GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 PROPOSED MAJOR BR. NO. D/MOZ 128 SPAN (1X12.2m) AT CH. 40960.000				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	JUNE 2016				AECOM/303/MJR-RUB/D/MOZ128	R0

Contract Package: 303

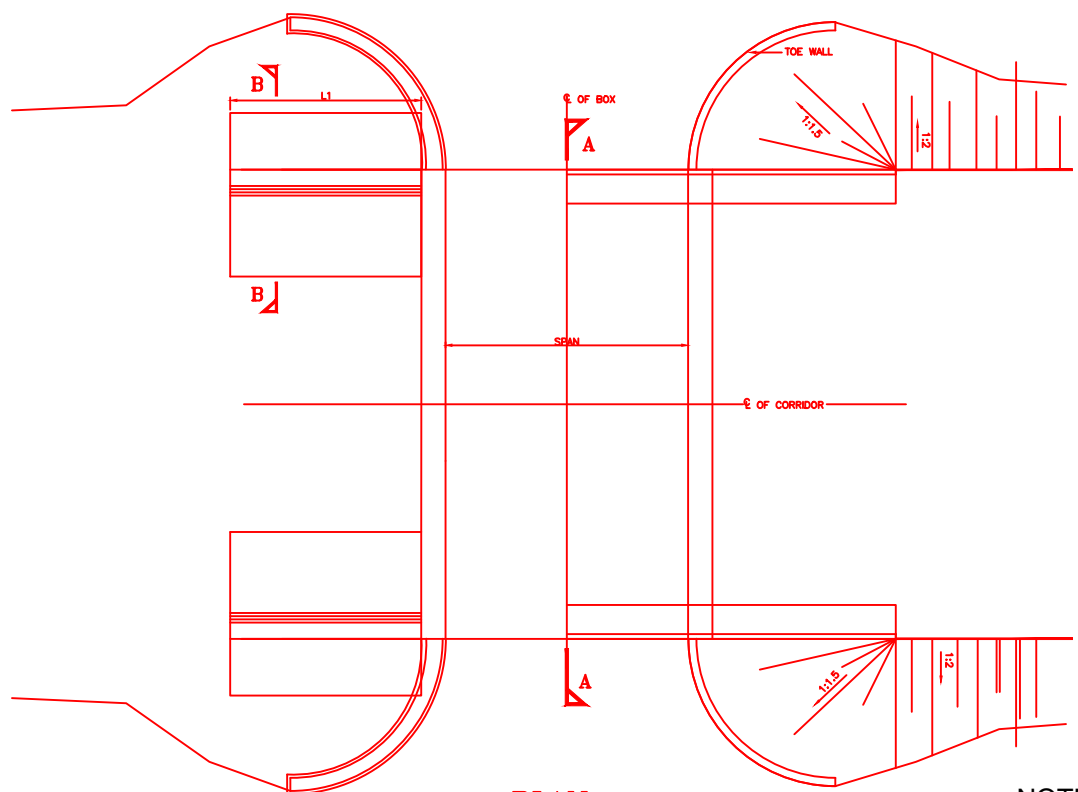
KHURJA TO PILKHANI

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

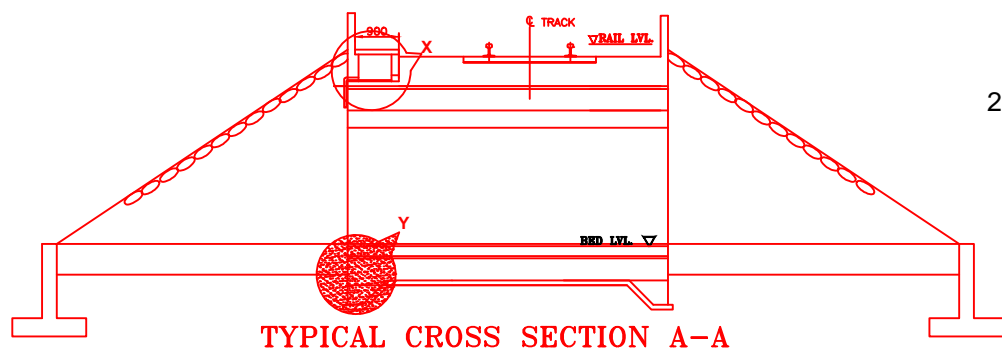
GAD OF MINOR BRIDGE



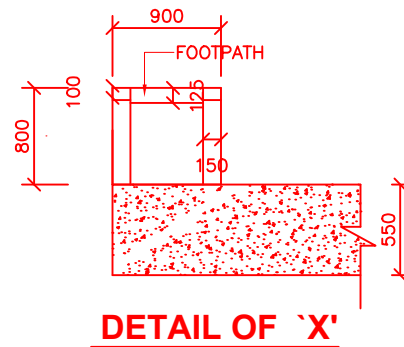
ELEVATION



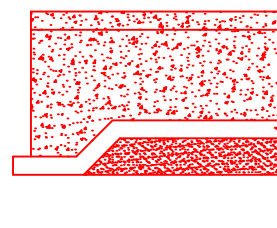
PLAN



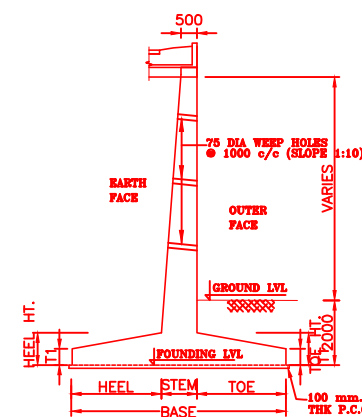
TYPICAL CROSS SECTION A-A



DETAIL OF 'X'



DETAIL OF 'Y'



SECTION

SCALE NTS

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY.
3. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
i) IRS BRIDGE RULES.
ii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
7. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL).
8. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL.
9. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH.
10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
11. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ BALAST RETAINER.
12. DRAINAGE OF DECK SHALL BE PROVIDED AS PER CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
14. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
15. THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
16. THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 730mm.
17. PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
18. SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS.
19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
20. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.
21. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY THE CONTRACTOR WELL IN TIME.
22. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

INDICATIVE DRAWING

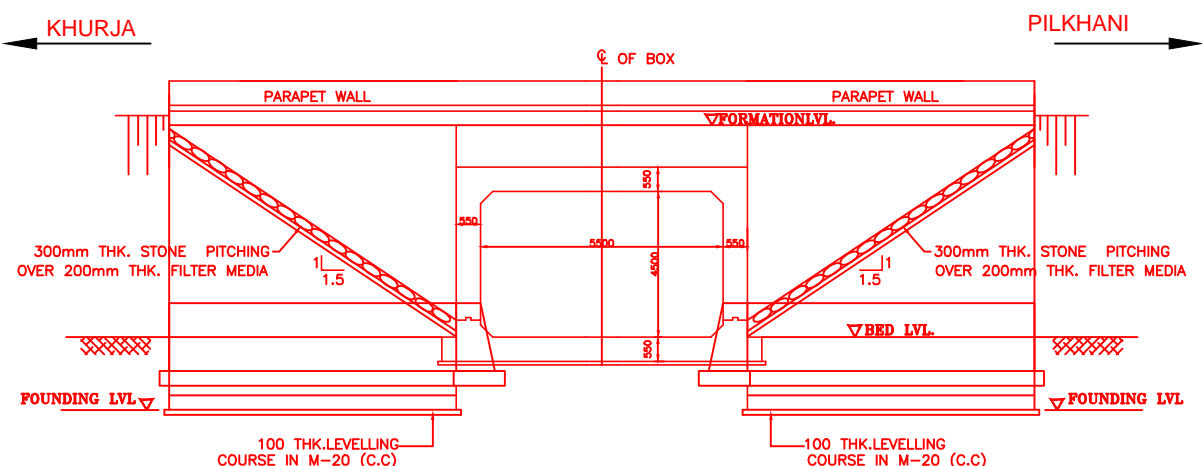
		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
PROJECT		EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
STRUCTURE		CONTRACT PACKAGE - 303 TYPICAL DRAWING OF MINOR BRIDGE				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS	MAY 2015				AECOM/303/MI/TYPICAL/1	R0

Contract Package: 303

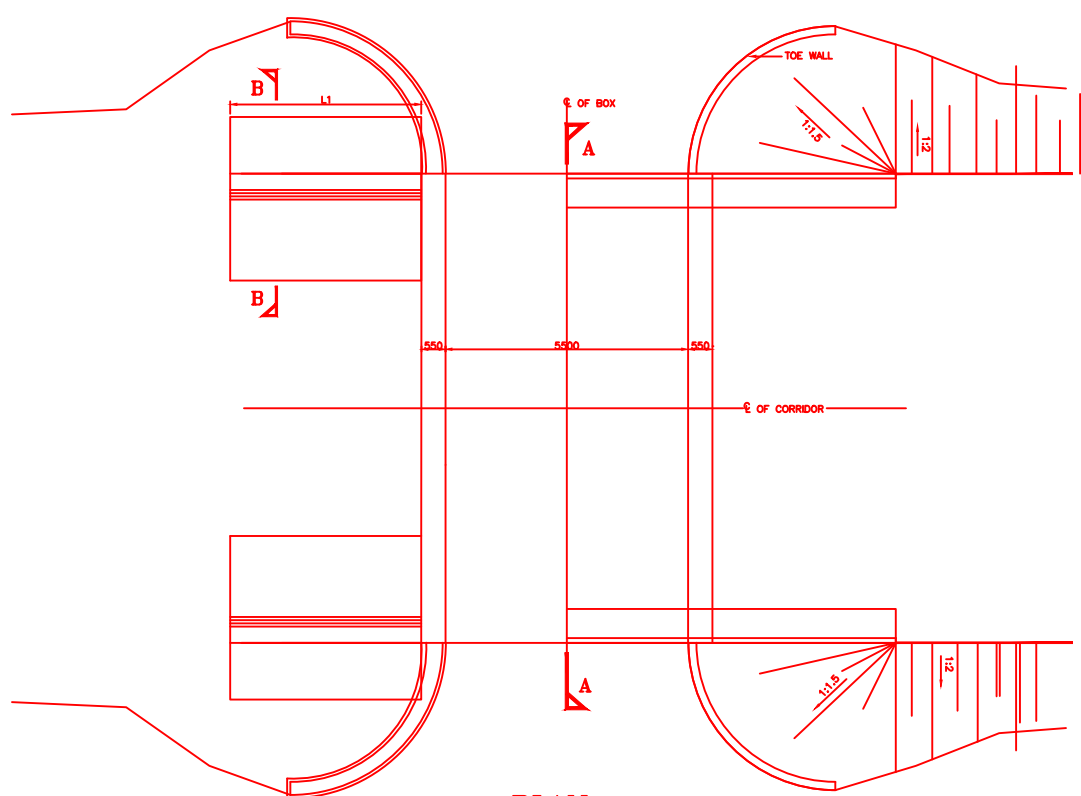
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From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

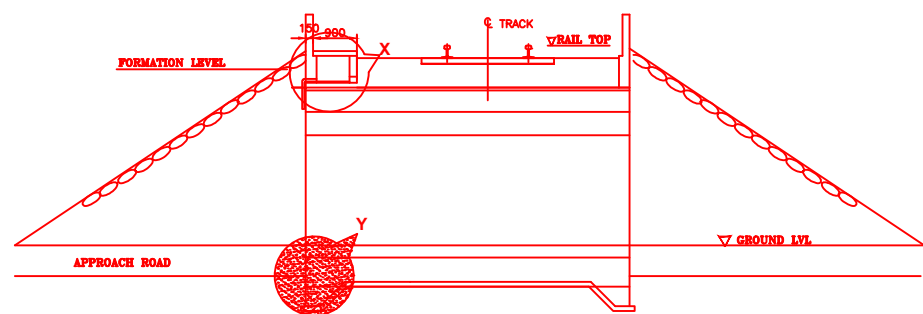
GAD OF MINOR RUB



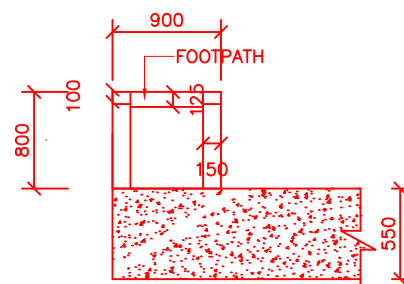
ELEVATION



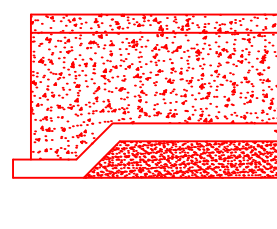
PLAN



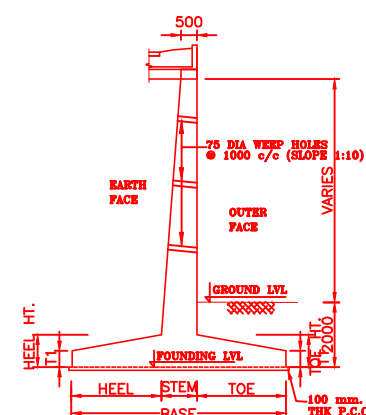
ELEVATION AT A-A



DETAIL OF 'X'



DETAIL OF 'Y'





SECTION
SCALE NTS

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY.
3. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-
i) IRS BRIDGE RULES.
ii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT BIS CODES.
- b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
4. HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS REINFORCEMENT.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
7. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL).
8. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL.
9. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH.
10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT
11. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ BALAST RETAINER.
12. DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
14. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
15. THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
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19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
20. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.
21. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.
22. THE DESIGN & CONSTRUCTION OF RUB WILL BE GOVERNED BY CLAUSE 3.0 BRIDGE DESIGN CRITERIA OF PART-2, VOLUME-4 OF BIDDING DOCUMENT.

INDICATIVE DRAWING

		DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.				
GENERAL CONSULTANT		AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA				
		EASTERN CORRIDOR				
PROJECT		KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)				
CONTRACT PACKAGE - 303						
STRUCTURE		TYPICAL DRAWING OF RUB SPAN 1 X 5.5 X 4.5M				
TITLE		GENERAL ARRANGEMENT DRAWING				
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
NTS					AECOM/303/MNR-RUB/TYPICAL/1	