



EPC

**(ENGINEERING PROCUREMENT AND
CONSTRUCTION)**

AGREEMENT for

**Construction of Eight Lane Expressway starting at
Ch. 47+000 near Khanpur Ghati and ends at
Haryana-Rajasthan Border (Km 47+000 to Km
78+800) section of Delhi – Vadodara Green field
Alignment (NH-148N) under Bharatmala Pariyojana
in the State of Haryana on EPC Mode**

CONTRACT AGREEMENT

between

National Highways Authority of India)
G-5 & 6, Sector-10, Dwarka, New Delhi-110075

And

Centrodorstroy India Pvt. Ltd.,
B-94, Okhla Phase-II, New Delhi-110020,

VOLUME – III
(Drawings)



Loopale



STRUCTURES DRAWINGS

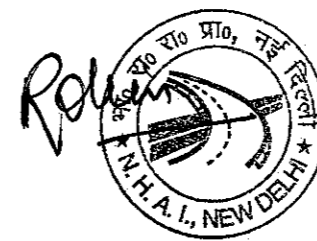
Structure Drawings



Bopele

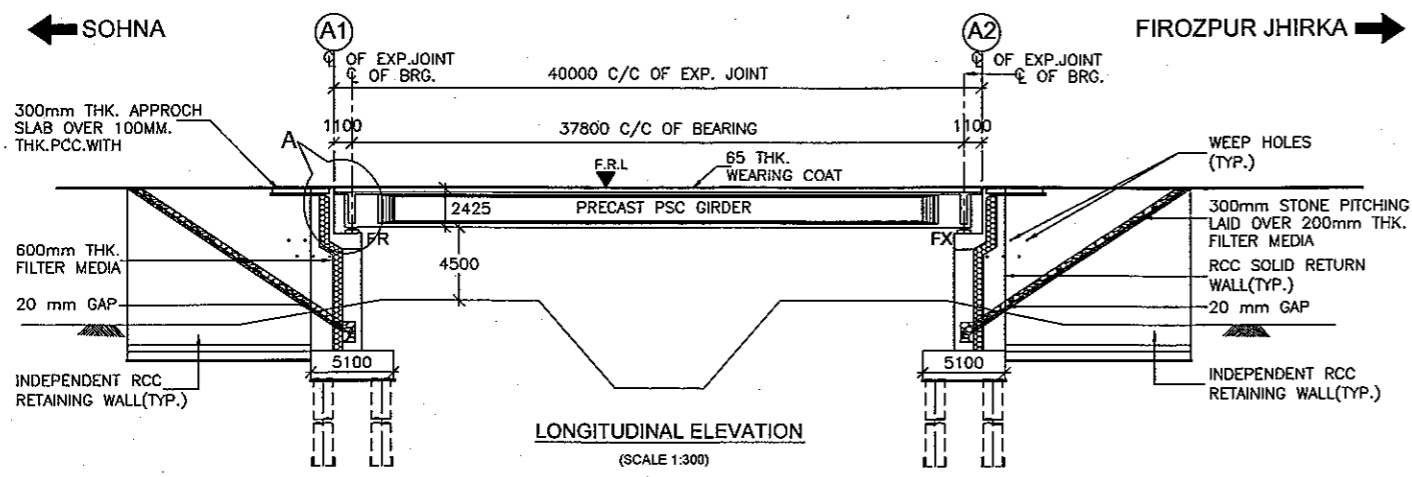


**PSC I-BEAM (SIZE 1x40.0M)
AT KM 50+340**



Coopale

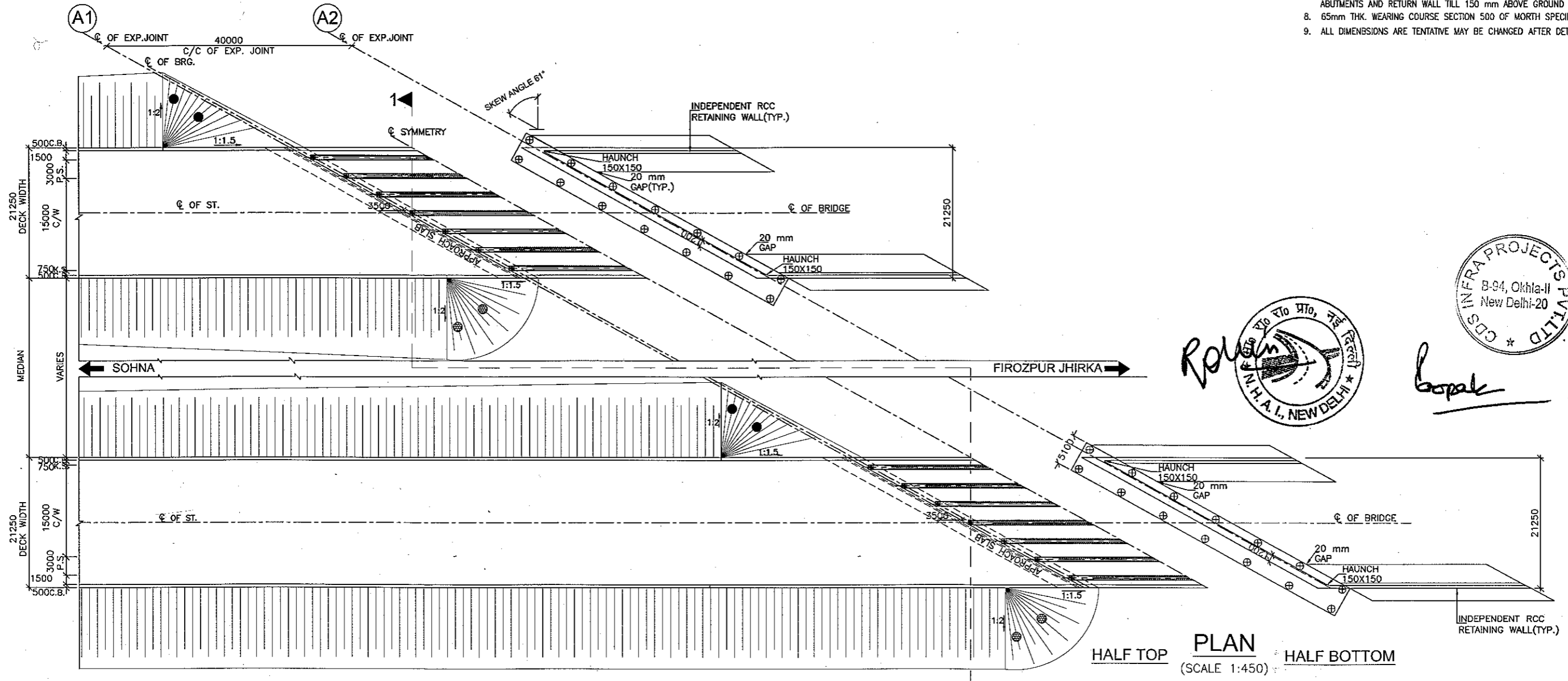







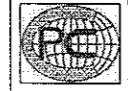
FORMATION LEVEL (m)	203.148	203.148
GROUND LEVEL (m)	195.877	195.790
CHAINAGE (m)	50+320	50+360

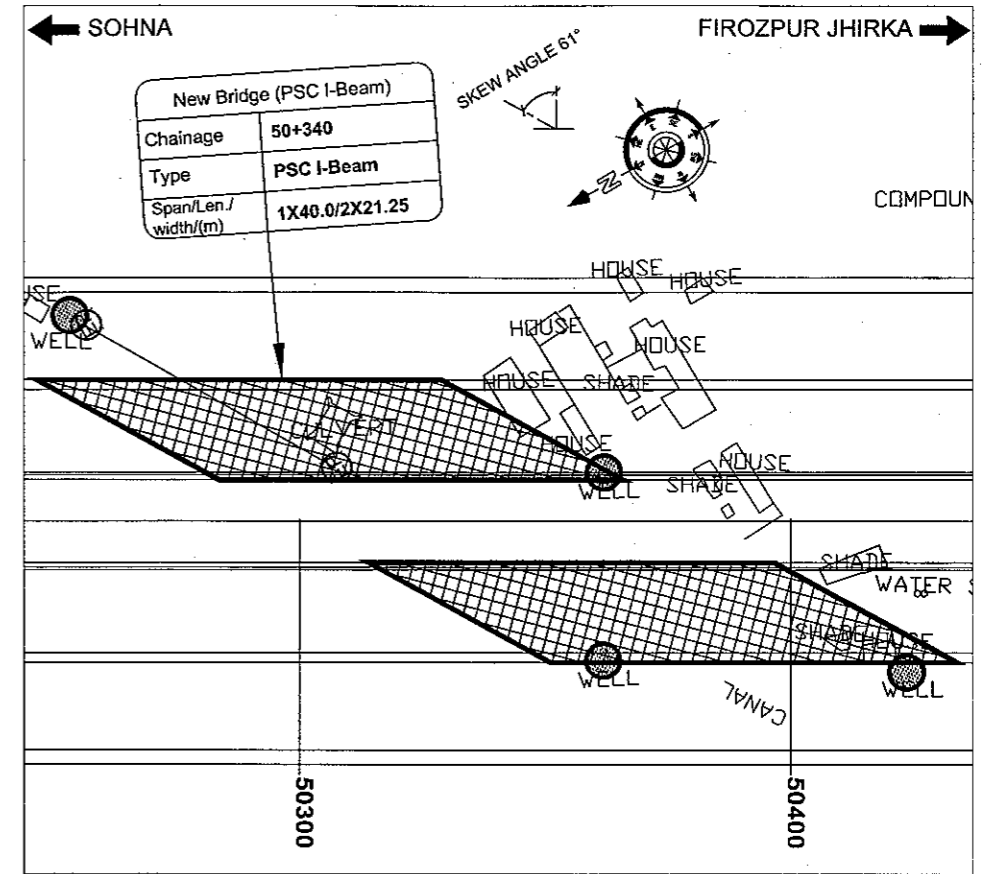
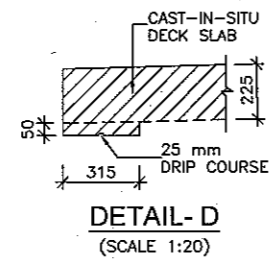
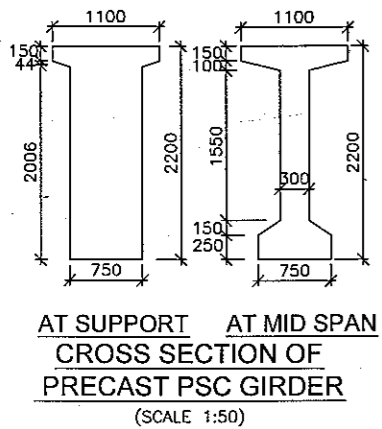
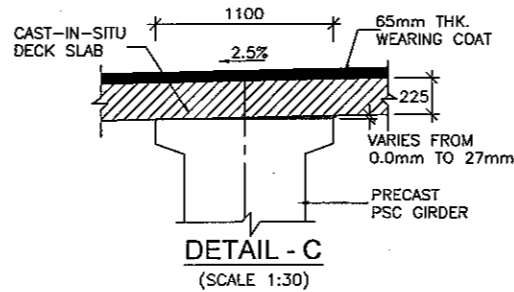
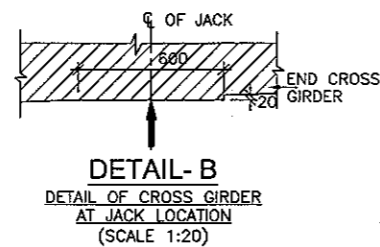
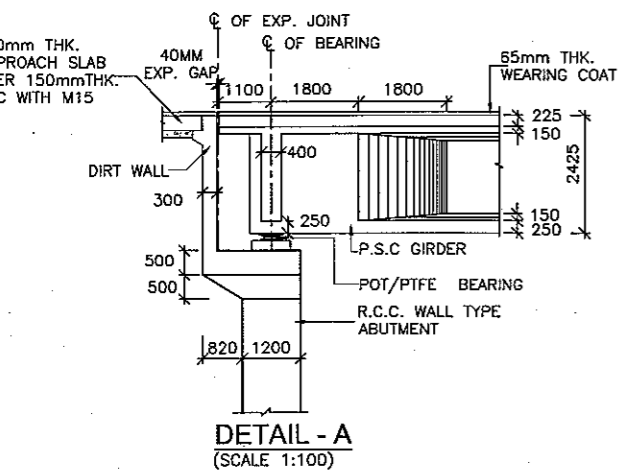
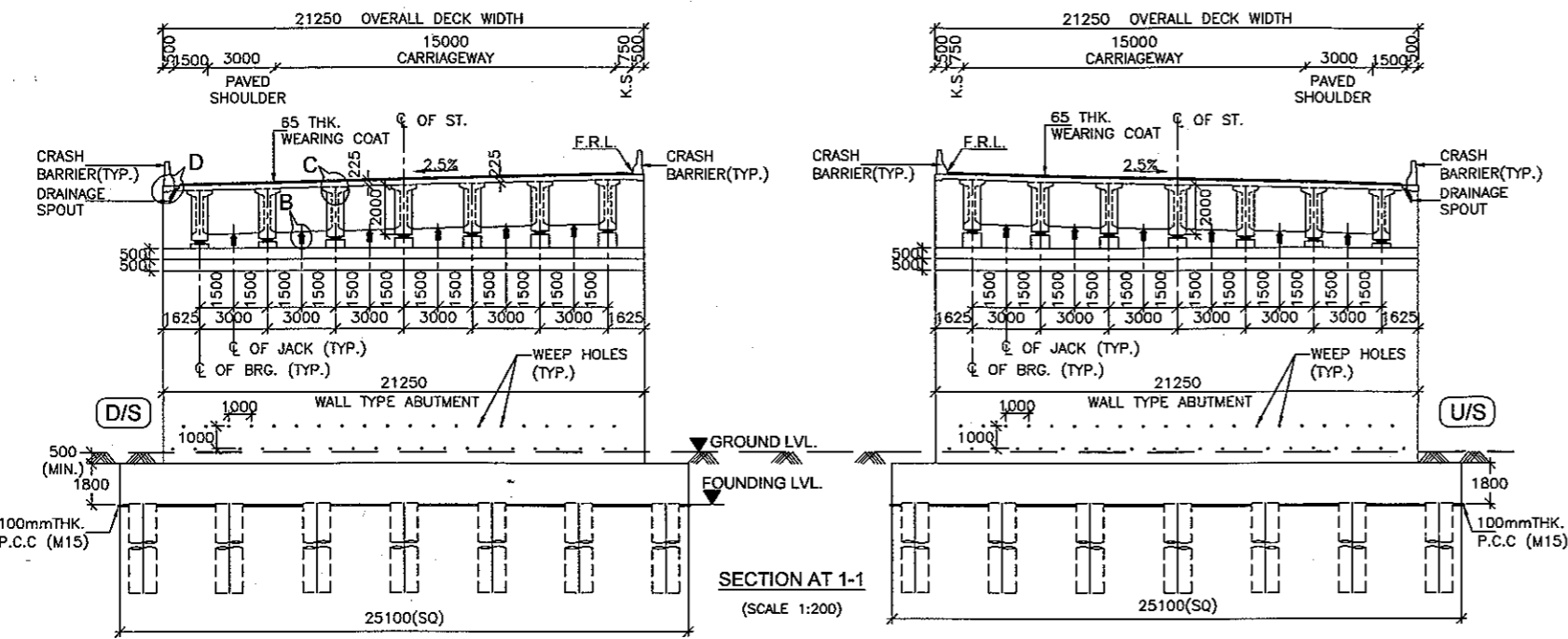
NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
2. THE PROPOSED 3 LANE BRIDGE HAS BEEN DESIGNED FOR 70R OR +1LANE, 3LANE CLASS A LODING, WHICHEVER GOVERNS.
3. CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
 PCC LEVELLING COURSE : M-15
 SUPERSTRUCTURE : M-40
 SUBSTRUCTURE : M-35
 CRASH BARRIER : M-40
 APPROACH SLAB : M-30
 RETURN/WING WALLS : M-35
4. GRADE OF STEEL SHALL BE Fe-500 CONFORMING TO IS:1786.
5. BACK FILLING BEHIND ABUTMENTS AND RETURN WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC:78-2000 HAVING PROPERTIES $C=0$, $\phi=30^\circ$, $\phi=20^\circ$ & $\gamma = 20 \text{ KN/m}^3$
6. LAYING COMPACTION AND EXTENT OF BACKFILL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO SPECIFICATIONS IN APPENDIX : 6 OF IRC : 78-2014
7. WEAP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS AND RETURN WALL TILL 150 mm ABOVE GROUND LEVEL.
8. 65mm THK. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
9. ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.

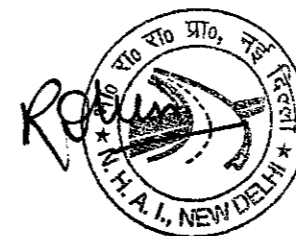




 Roshan
 Gopak

CLIENT:-  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING (SPAN 1 X 40.00 M C/C EXP. JOINT) AT CH.- 50+340 (SOHNA - FIROZPUR JHIRKA)	DRAWING No. :- (SHEET 1 OF 2) CPC/P-152/CH-50+340/S-100
					DATE: AUGUST 2018 REVISION: R0
PREPARED BY: P.K.SHUKLA		CHECKED BY: MOHD. SALIK		APPROVED BY: NEERAJ	

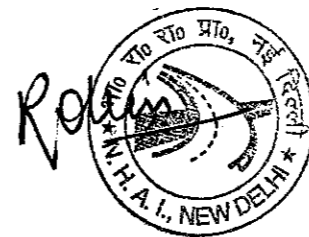


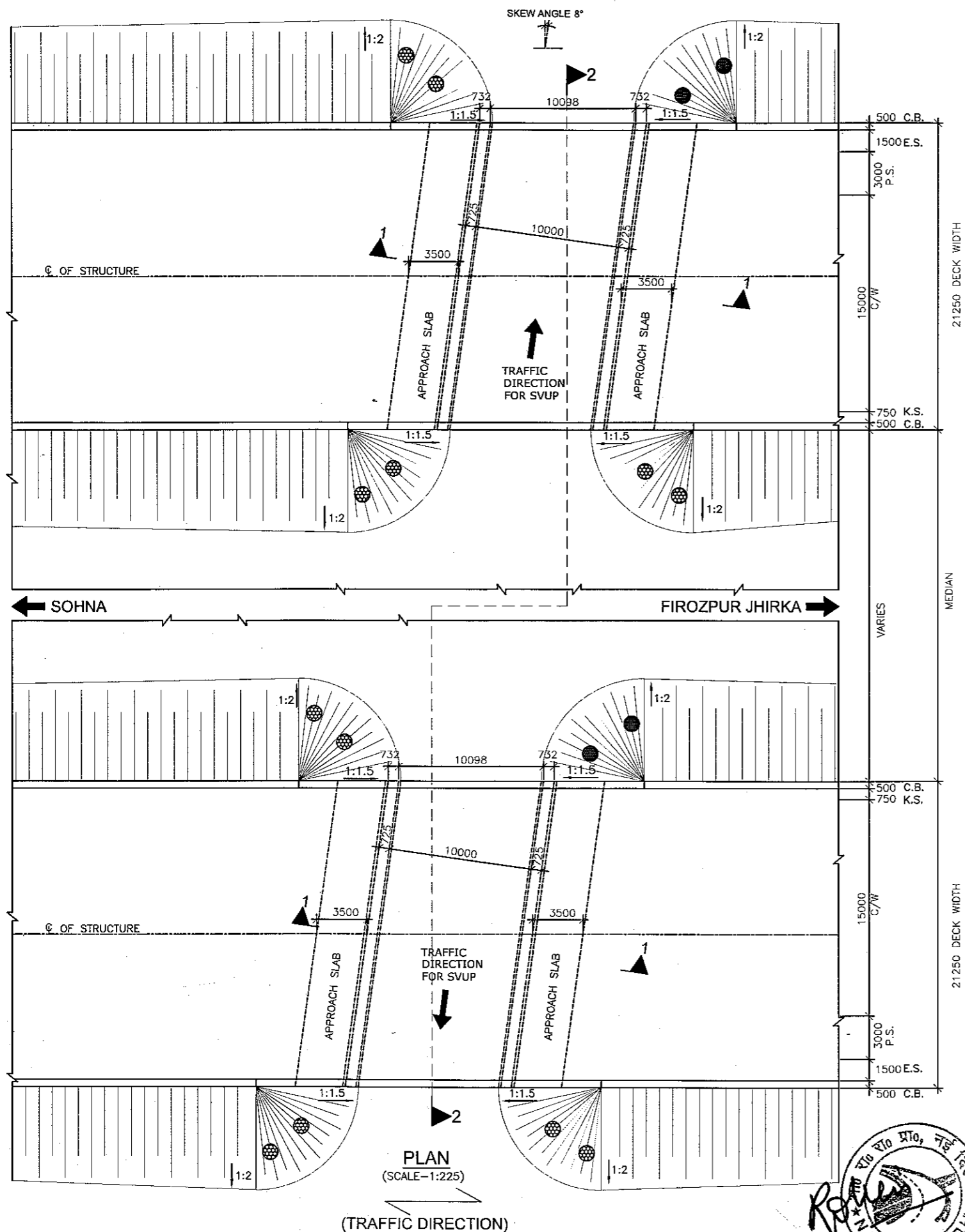
KEY PLAN



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SVUP (1x10.0x4.5m.)
@ CH.47+490





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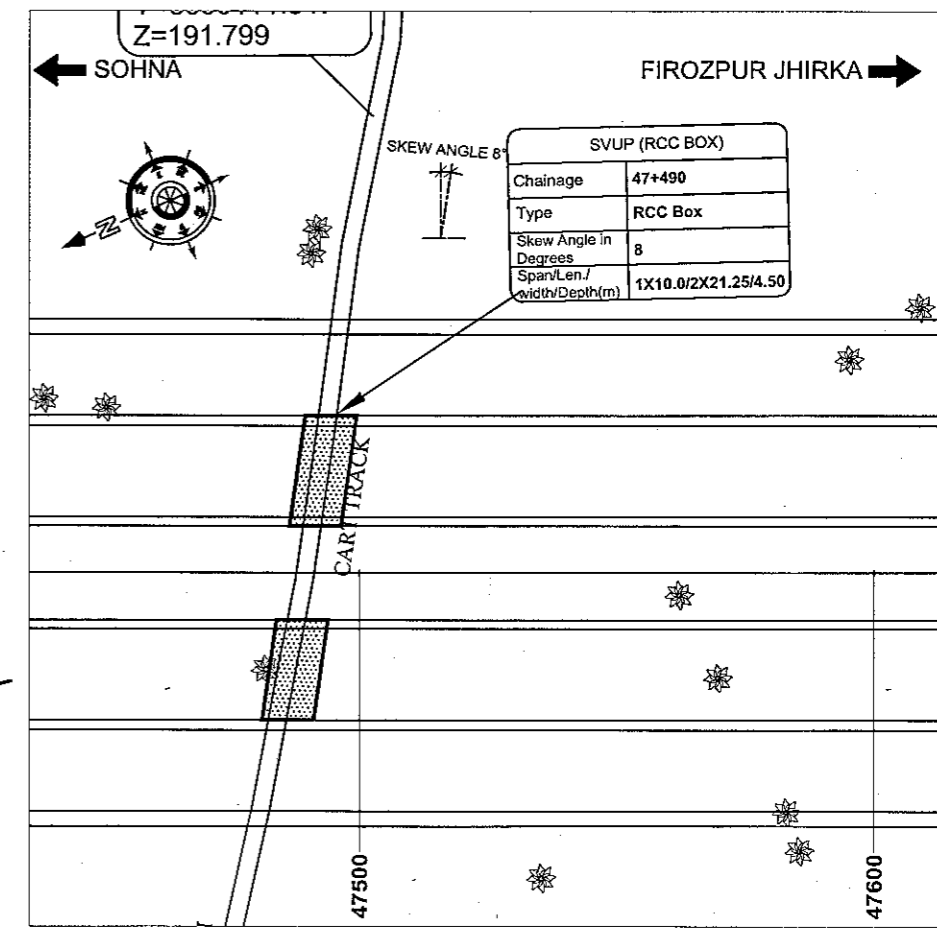
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3. PROPERTIES OF SELECTED BACK FILL BEHIND RETAINING WALL SHALL BE AS FOLLOWS:-
C=0, $\phi > 30^\circ$ = 2.0 t/m³.
4. EXPANSION GAP (20mm) WILL BE FILLED UP BY ASPHALTIC PLUG EXPANSION JOINT.
5. GRADE OF CONCRETE IN VARIOUS ELEMENTS SHALL BE AS FOLLOWS:-

PCC CURTAIN WALL	: M15
APPROACH SLAB	: M30
RCC BOX	: M30
RETAINING WALL	: M30
RCC RAILING	: M30
CRASH BARRIER	: M40
6. NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-

BOX	: 10 t/m ²
RETAINING WALL	: 15 t/m ²
7. WEEP HOLES SHALL BE PROVIDED @ 1000 MM C/C STAGGERED. BOTH HORIZONTALLY AND VERTICALLY IN RETAINING WALL FROM GROUND LEVEL TO HIGH FLOOD LEVEL.
8. BACKFILLING BEHIND BOX SHALL BE CARRIED OUT SIMULTANEOUSLY.
9. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.2008
10. 65MM THICK WEARING COAT SHALL CONSISTS OF LAYER OF MASTIC ASPHALT OF 25mm THK. OVER 40MM BITUMINOUS COURSE.
11. 'DK' IS DEPTH OF KEY AT BASE SLAB.

FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UPTO 900mm	1200mm.
GREATER THAN 900mm	d+300mm

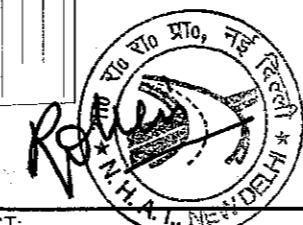
d = BASE SLAB THICKNESS
12. 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
13. FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
14. THIS STRUCTURE LIES IN SEISMIC ZONE V.
15. FRL IS TAKEN AT MEDIAN EDGE.



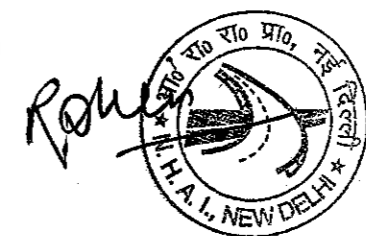
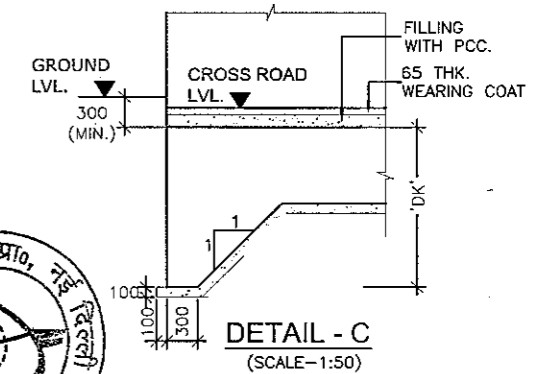
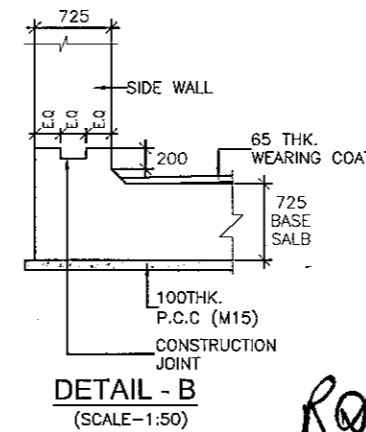
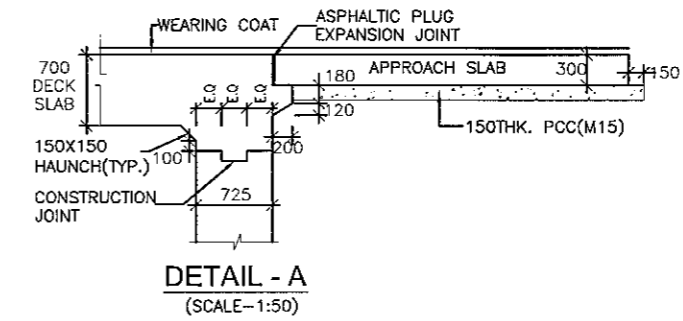
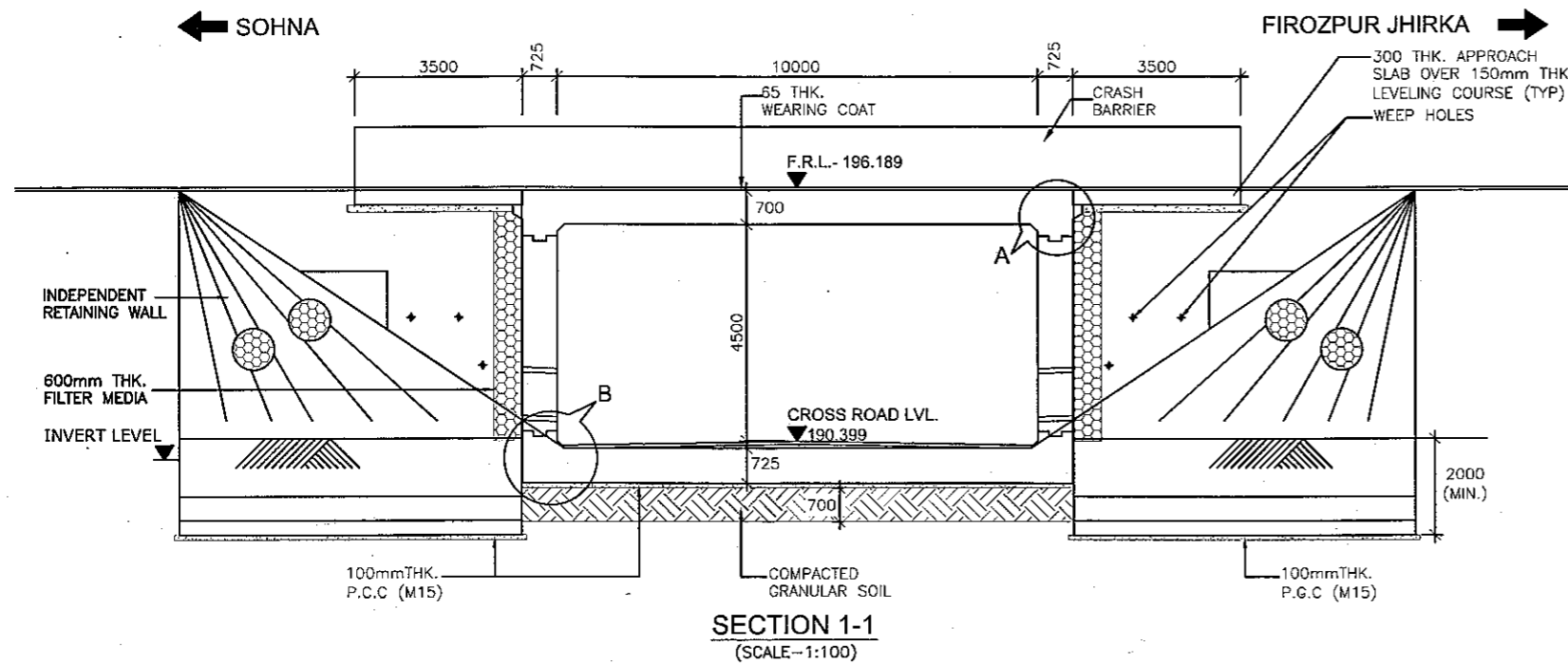
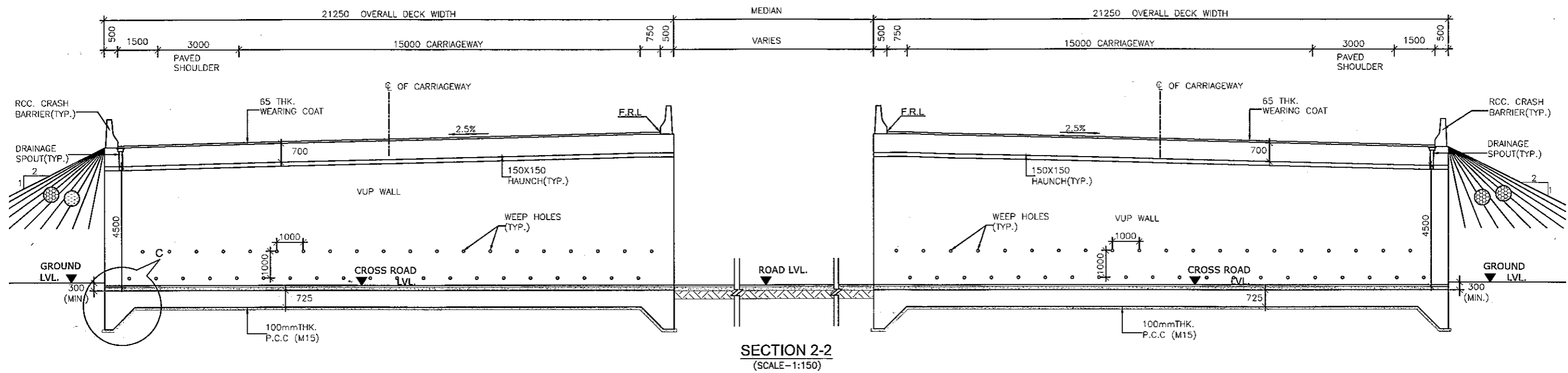
KEY PLAN

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CGS INFRA PROJECTS PVT LTD
 B-94, Okhla-II
 New Delhi-20



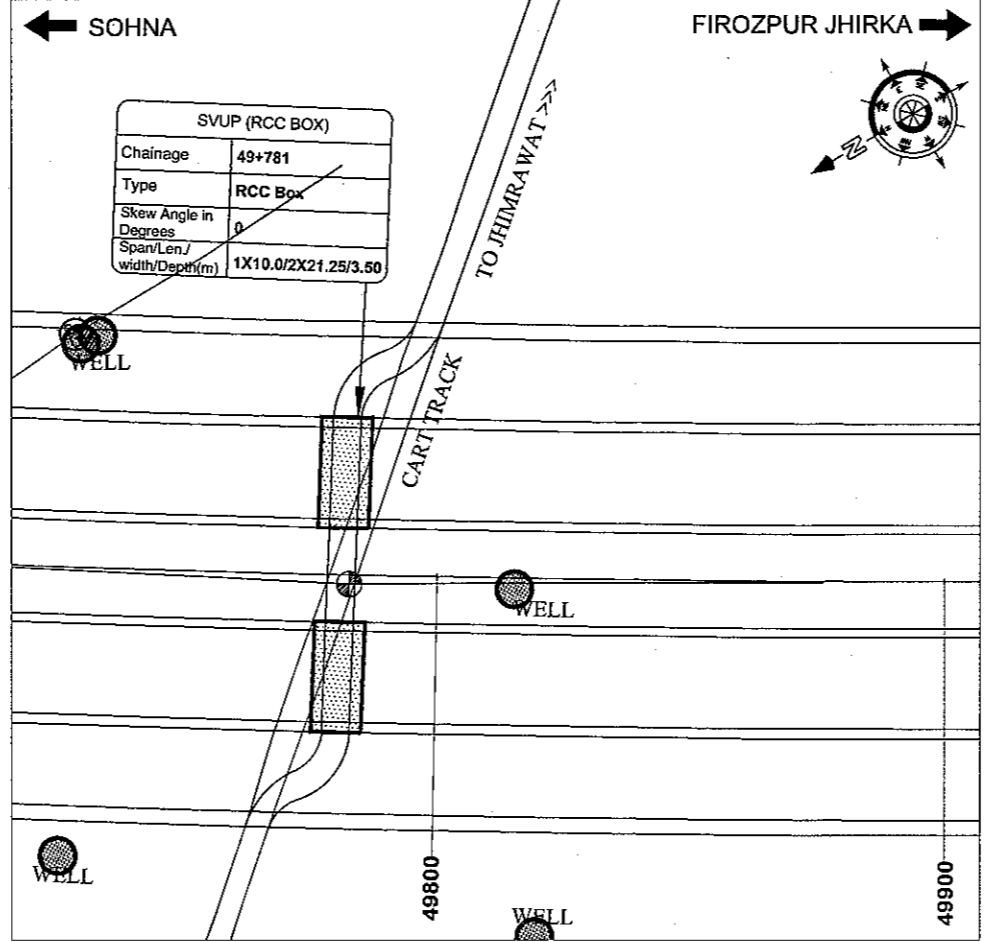
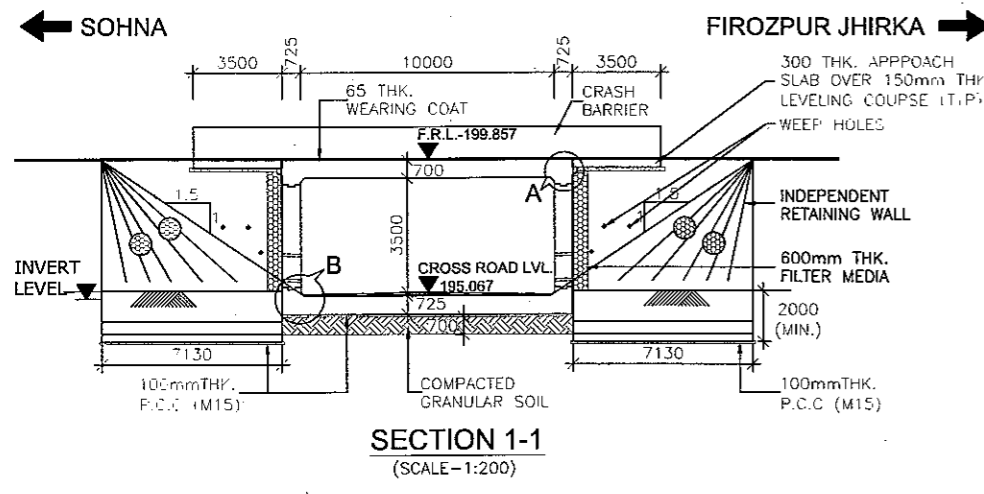
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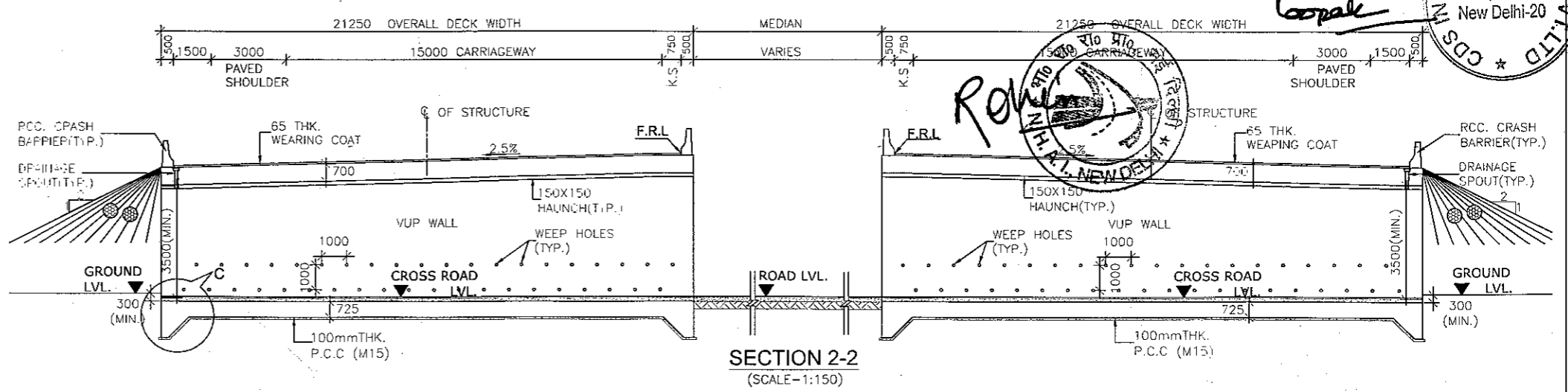
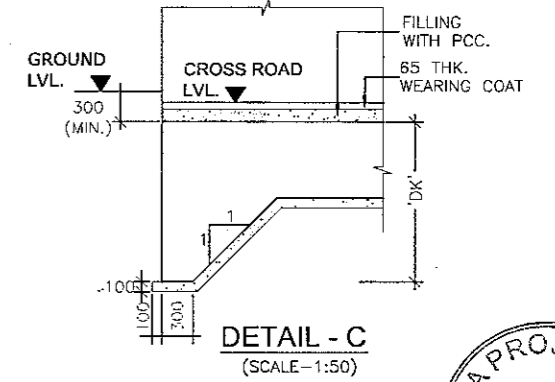
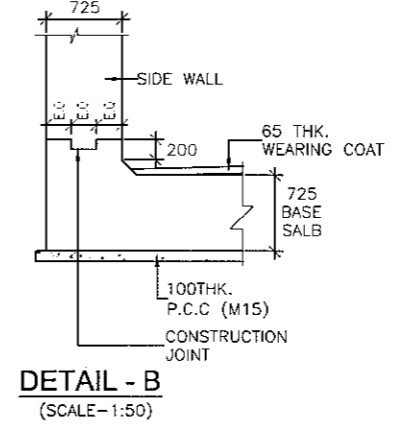
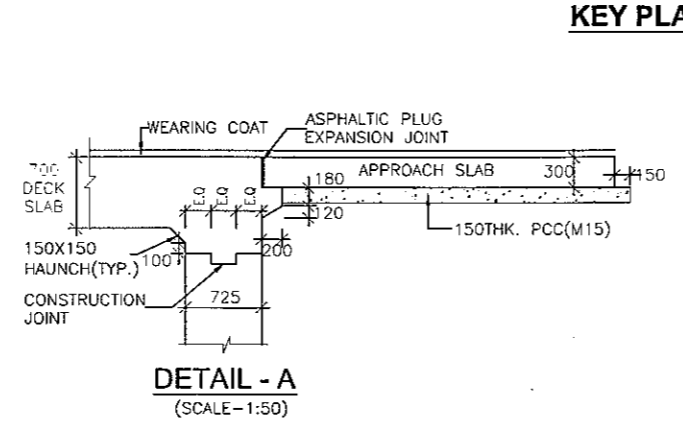
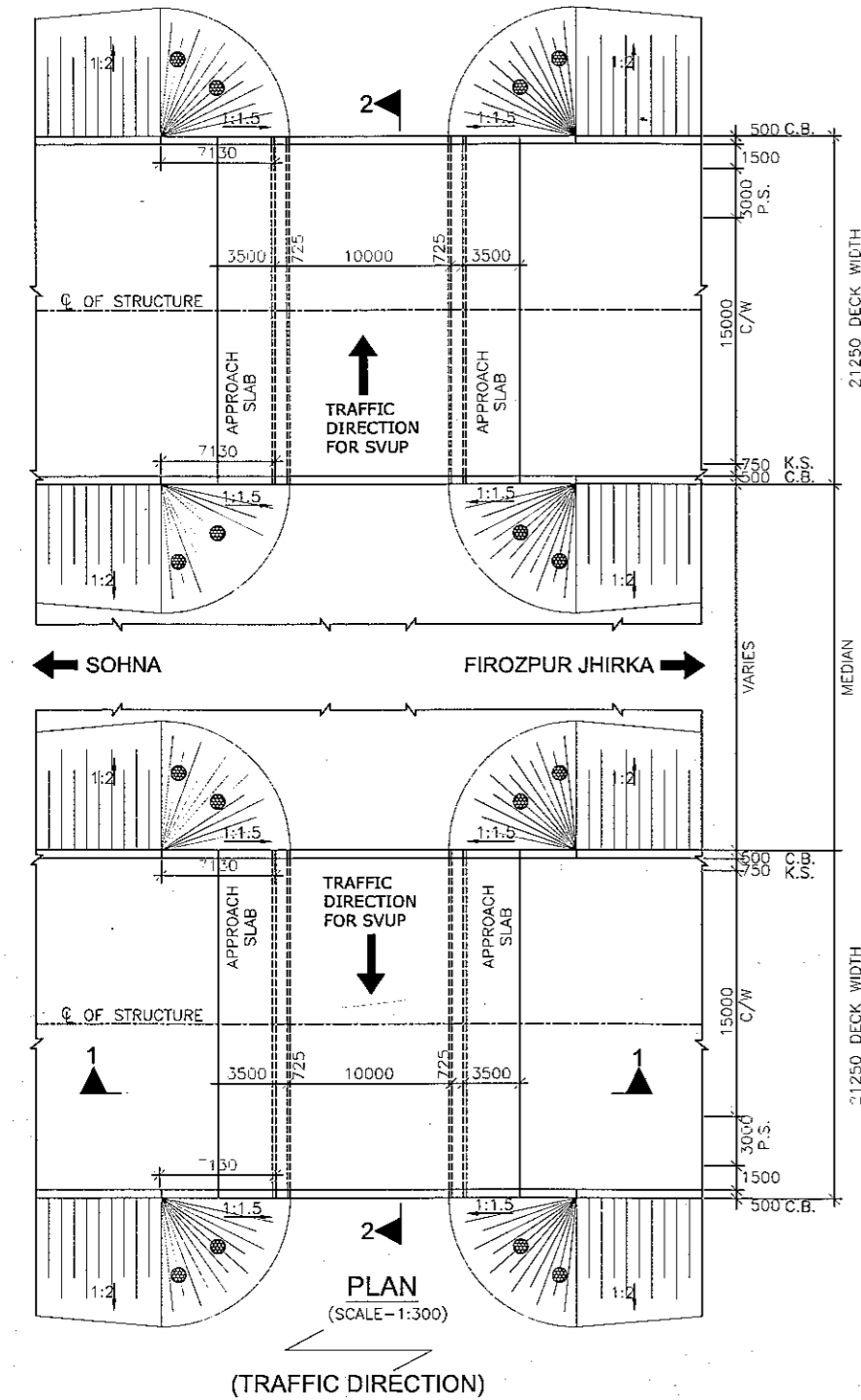
SVUP (1x10.0x3.5m.)
@ CH.49+781





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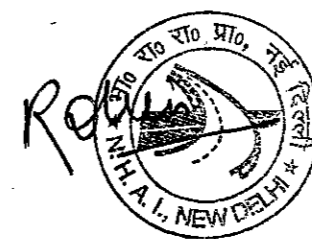
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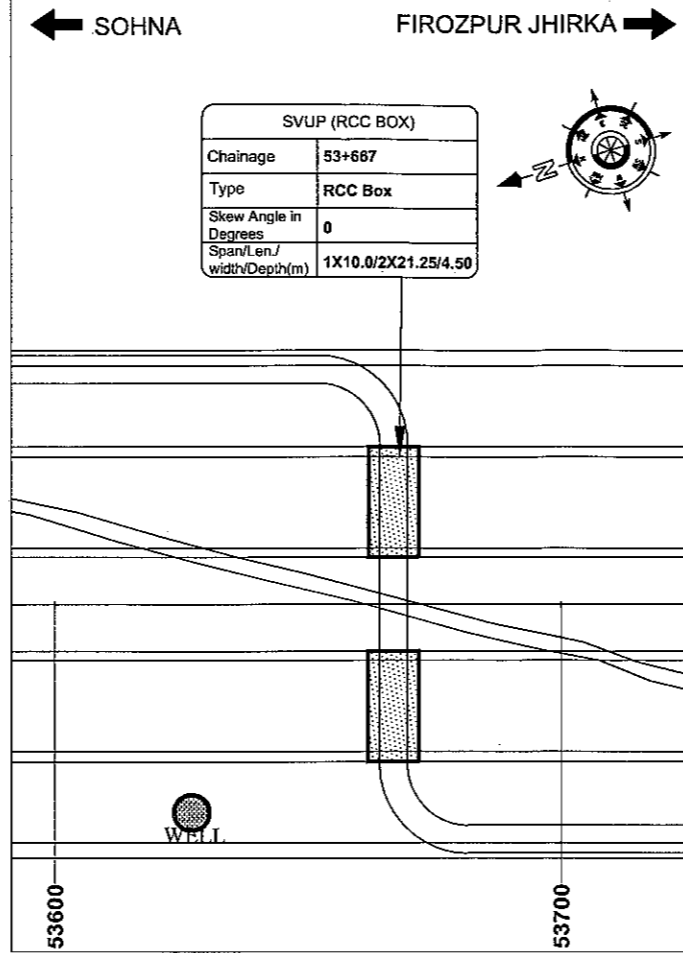
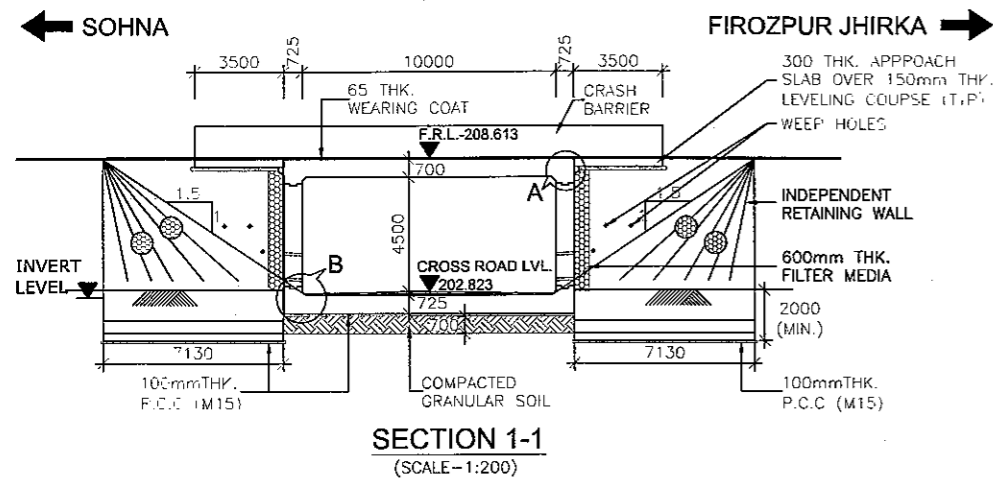


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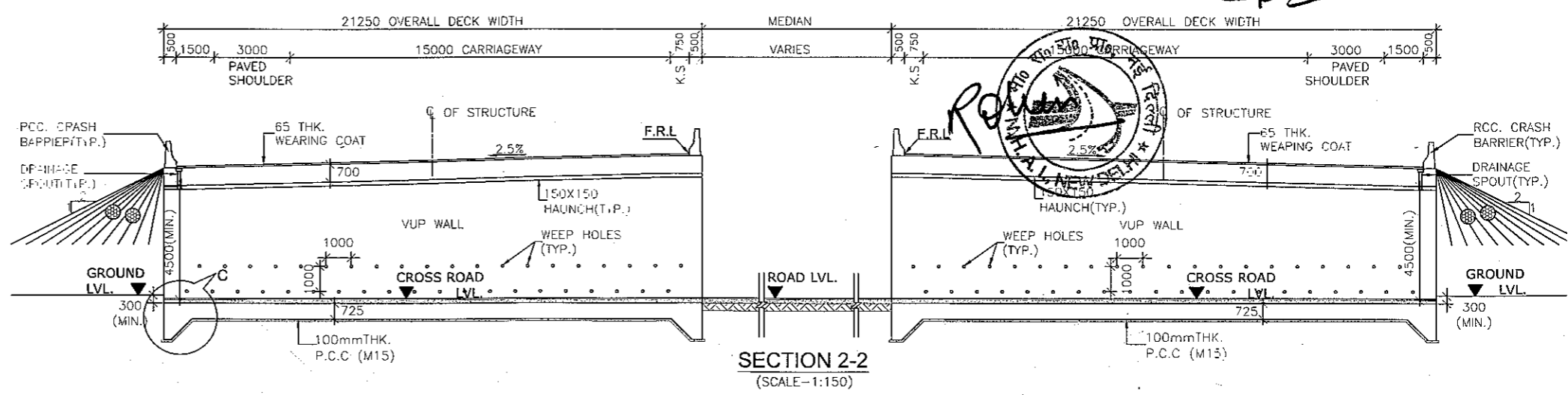
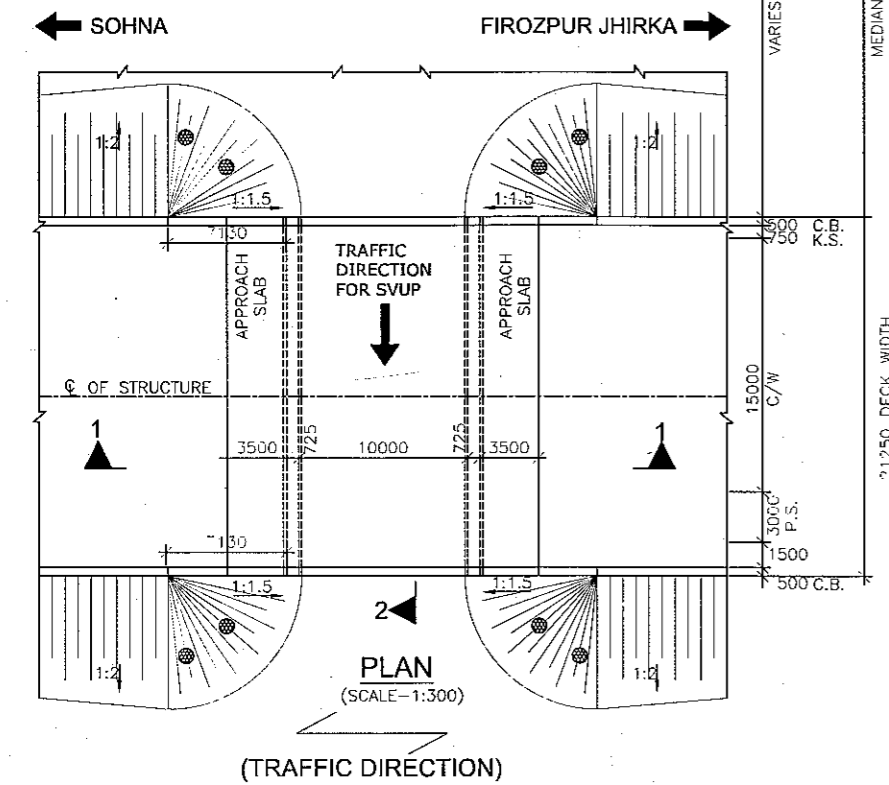
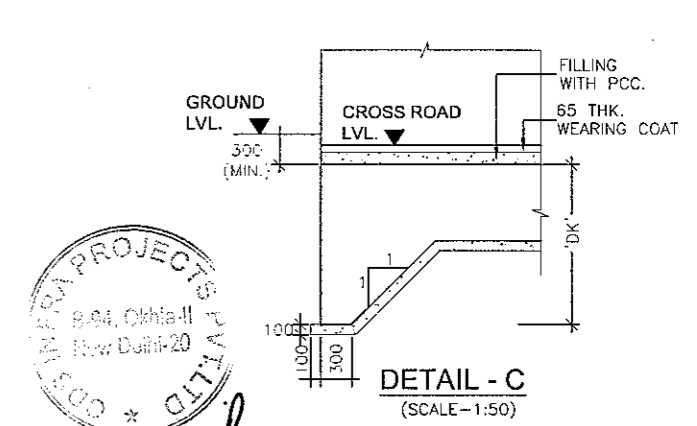
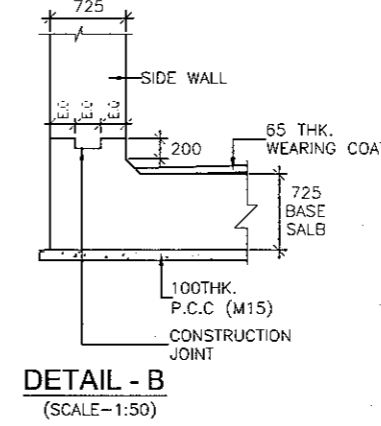
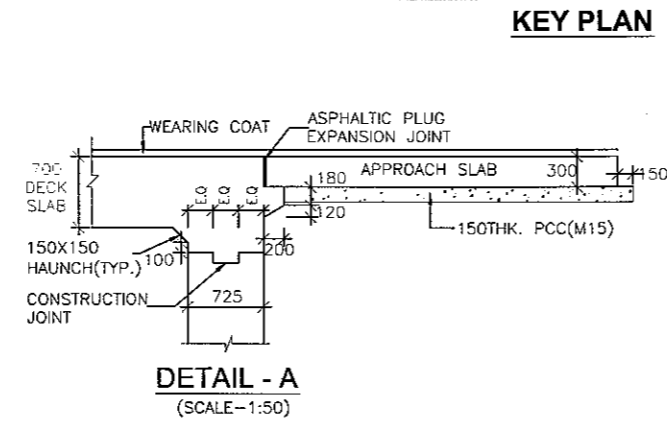
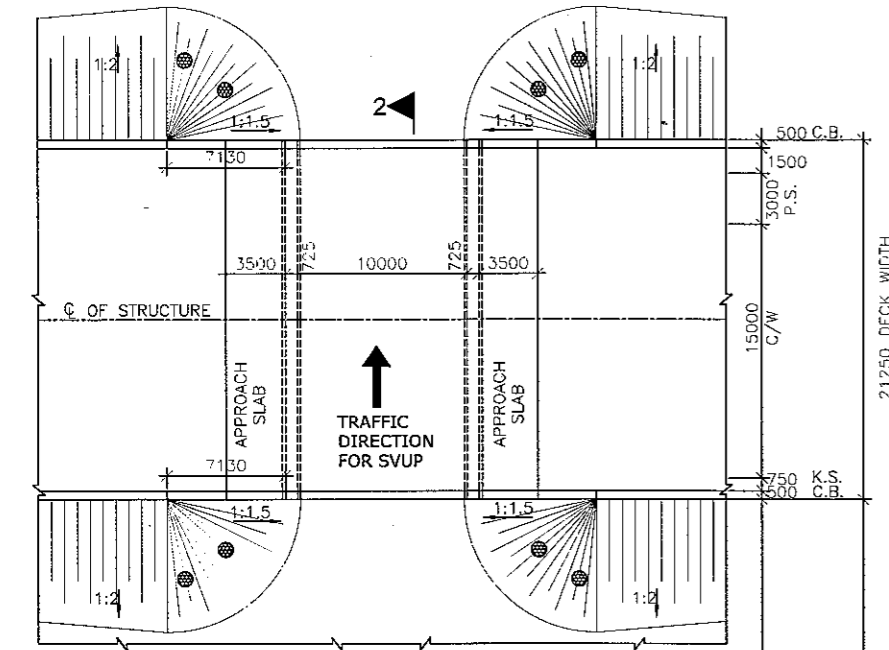
SVUP (1x10.0x4.5m.)
@ CH.53+667





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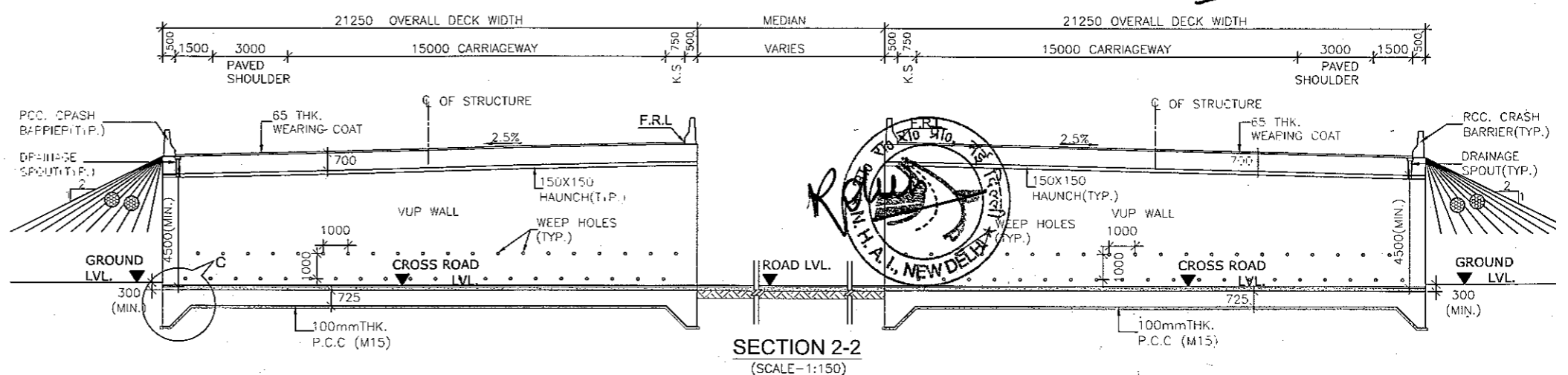
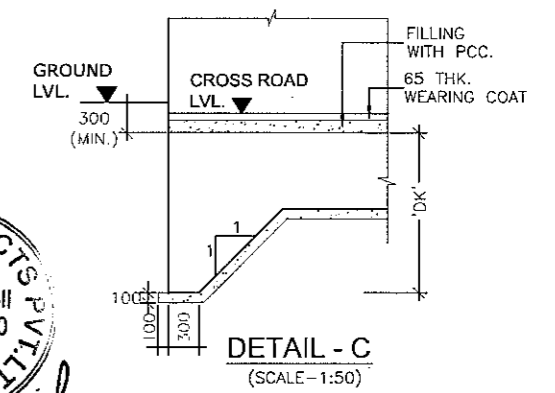
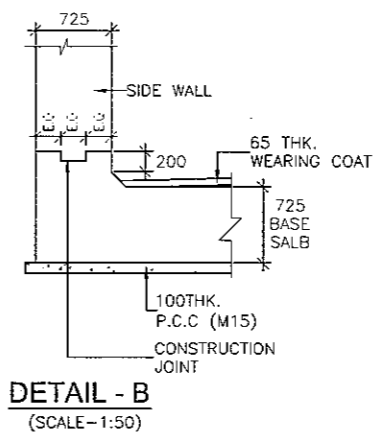
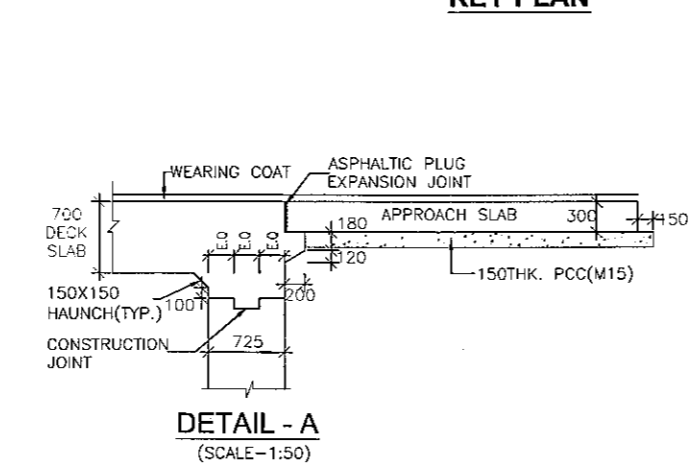
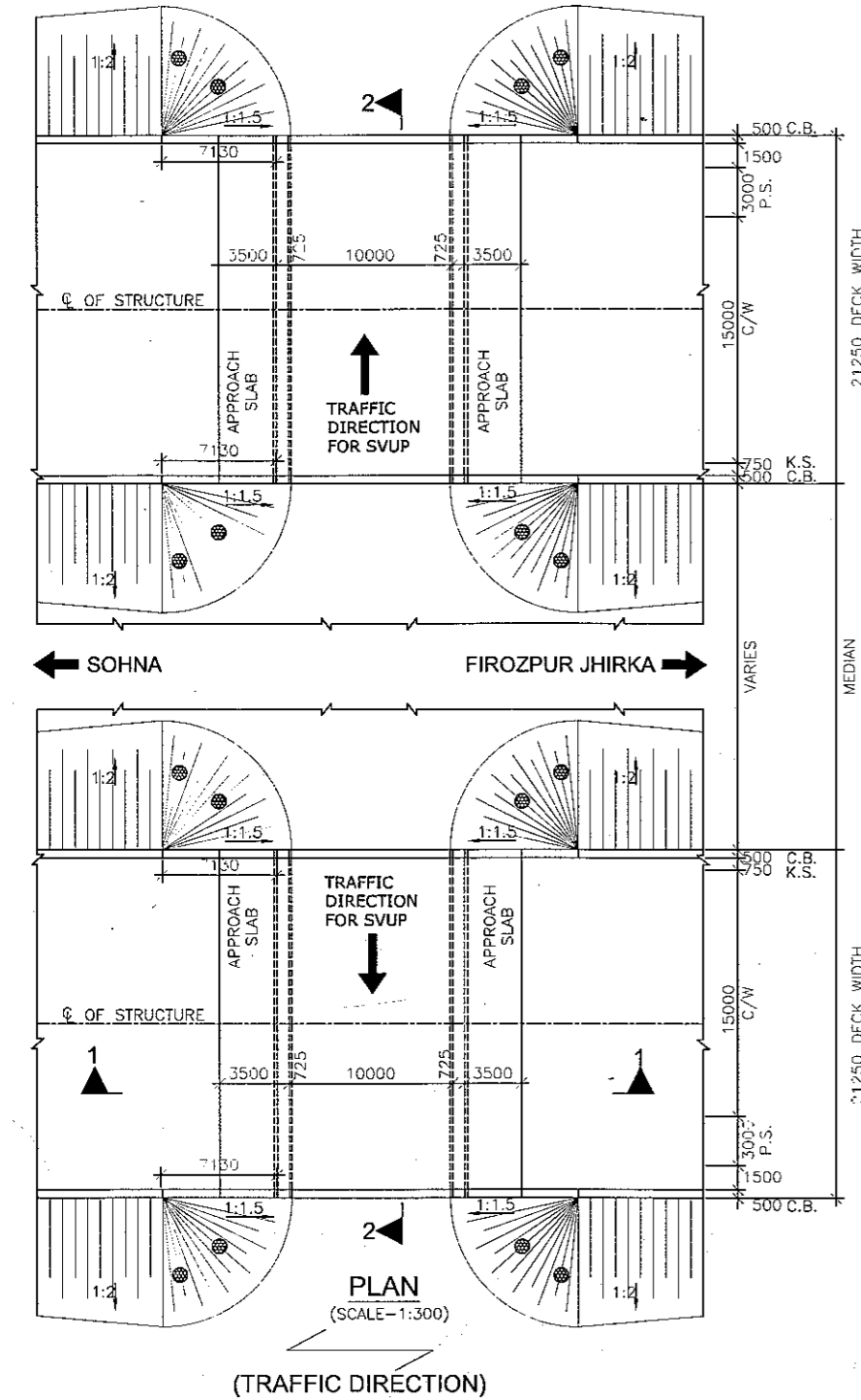
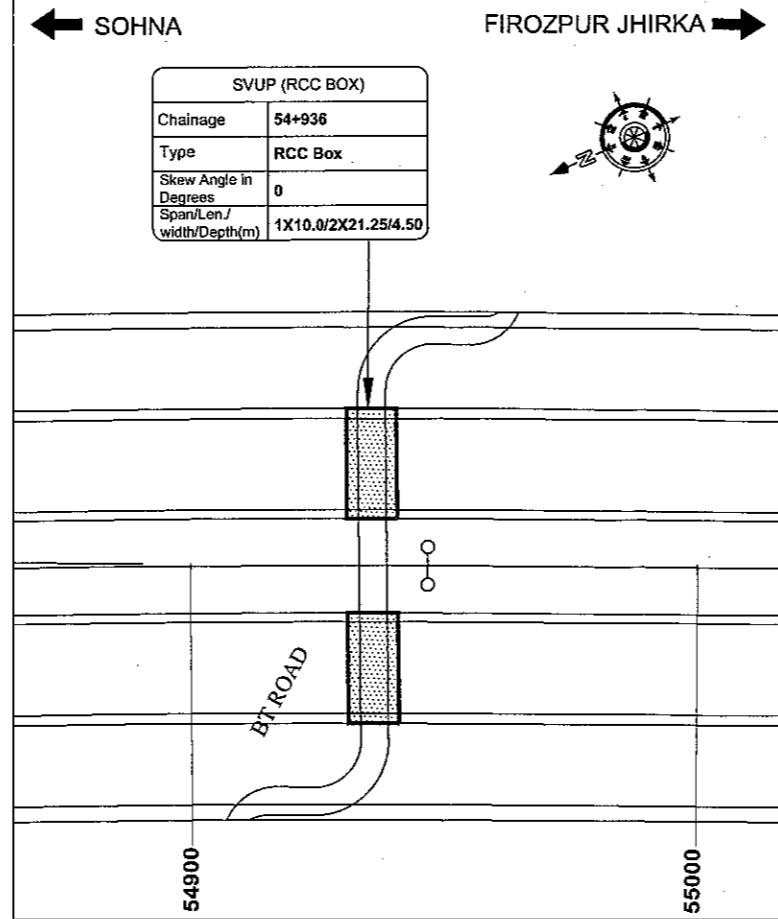
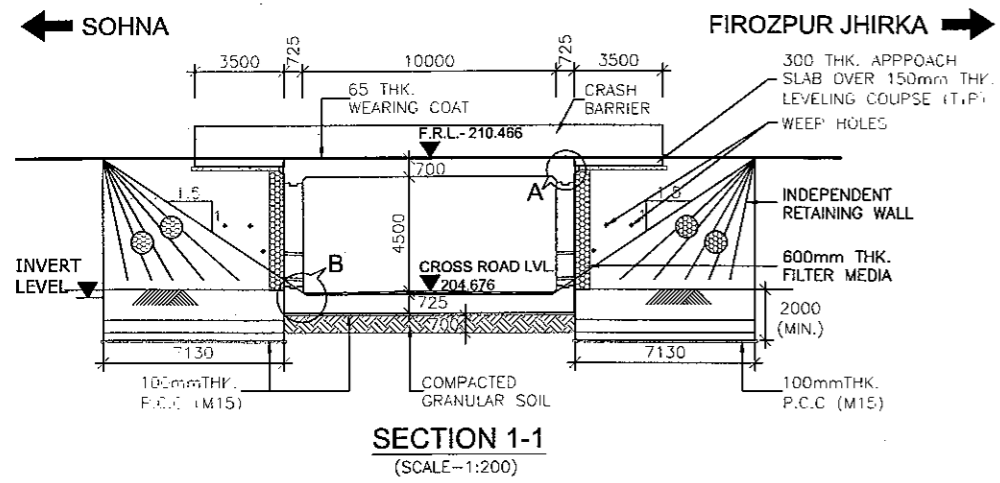
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d = BASE SLAB THICKNESS
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- FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
- THIS STRUCTURE LIES IN SEISMIC ZONE V.
- F.R.L. IS TAKEN AT MEDIAN EDGE.



<p>CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)</p>	<p>CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.-21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka</p>	<p>SCALE :- AS SHOWN</p>	<p>DWG TITLE:- GENERAL ARRANGEMENT DRAWING SVUP(SIZE 1X10.0X4.5m) AT CH.- 53+667 (SOHNA - FIROZPUR JHIRKA)</p>	<p>DRAWING No :- CPC/P-152/CH-53+667/S-100</p>
					<p>DATE : AUGUST 2018</p>
<p>PREPARED BY KULDEEP SINGH</p>	<p>CHECKED BY MOHD. SALIK</p>	<p>APPROVED BY NEERAJ</p>			

SVUP (1x10.0x4.5m.)
@ CH.54+936



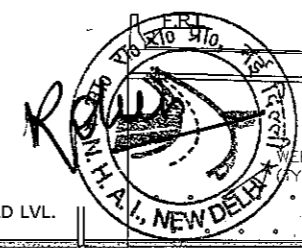


NOTES:-

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PCC CURTAIN WALL : M15
APPROACH SLAB : M30
RCC BOX : M30
RETAINING WALL : M30
RCC RAILING : M30
CRASH BARRIER : M40
- NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-
BOX : 10 t/m²
RETAINING WALL : 15 t/m²
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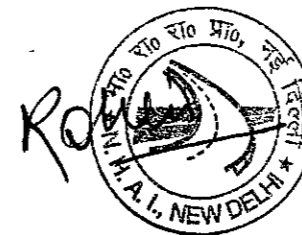


Signature



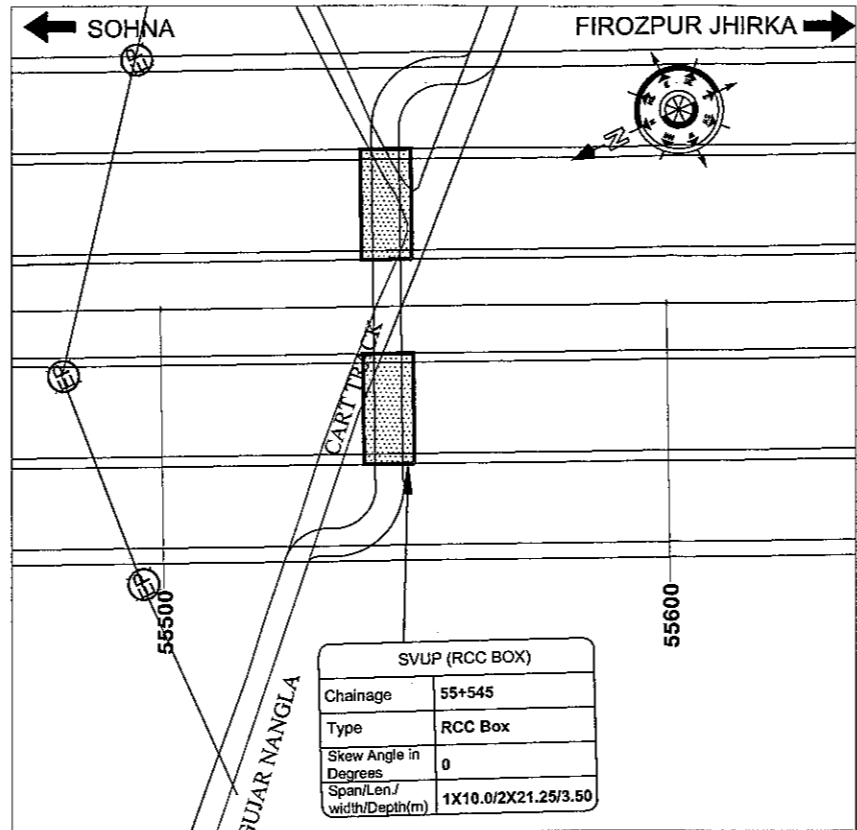
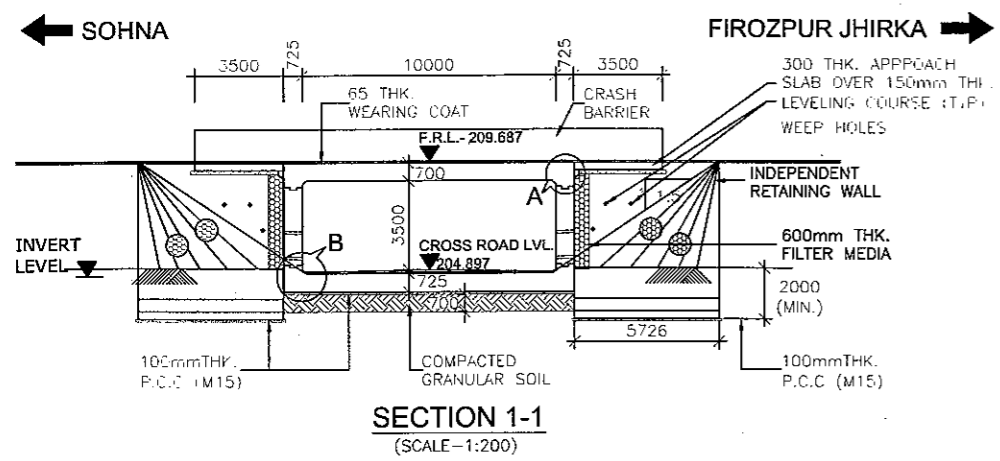
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.-21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING SVUP (SIZE 1X10.0X4.5m) AT CH.- 54+936 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPCIP-152/CH-54+936/S-100		
					DATE : AUGUST 2018	Revision: R0	APPROVED BY
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ					

SVUP (1x10.0x3.5m.)
@ CH.55+545



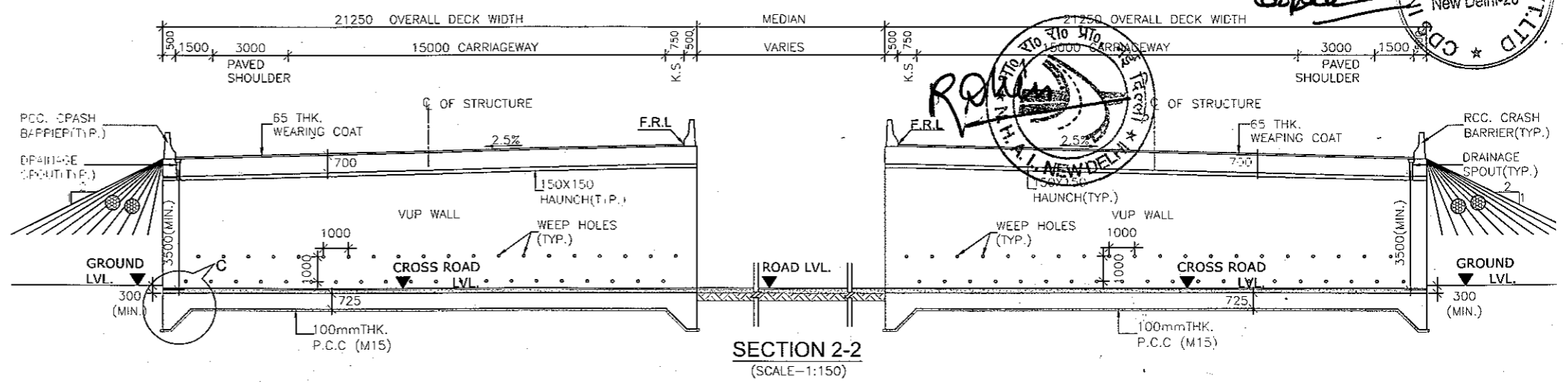
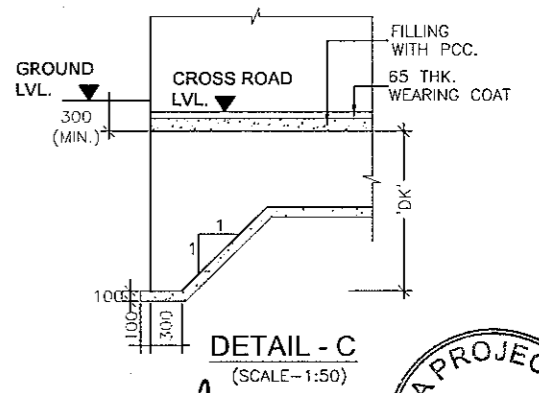
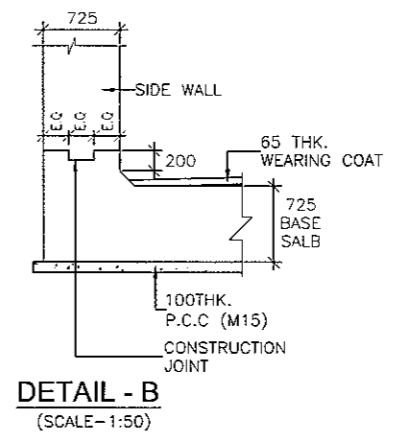
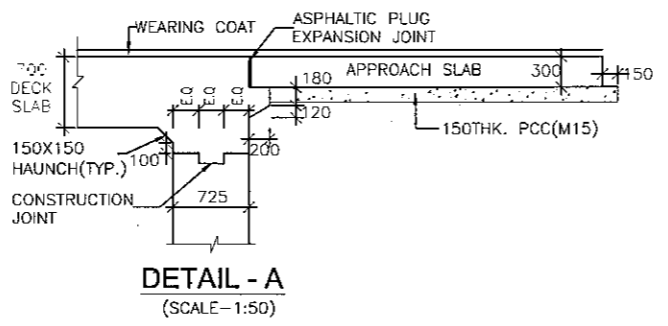
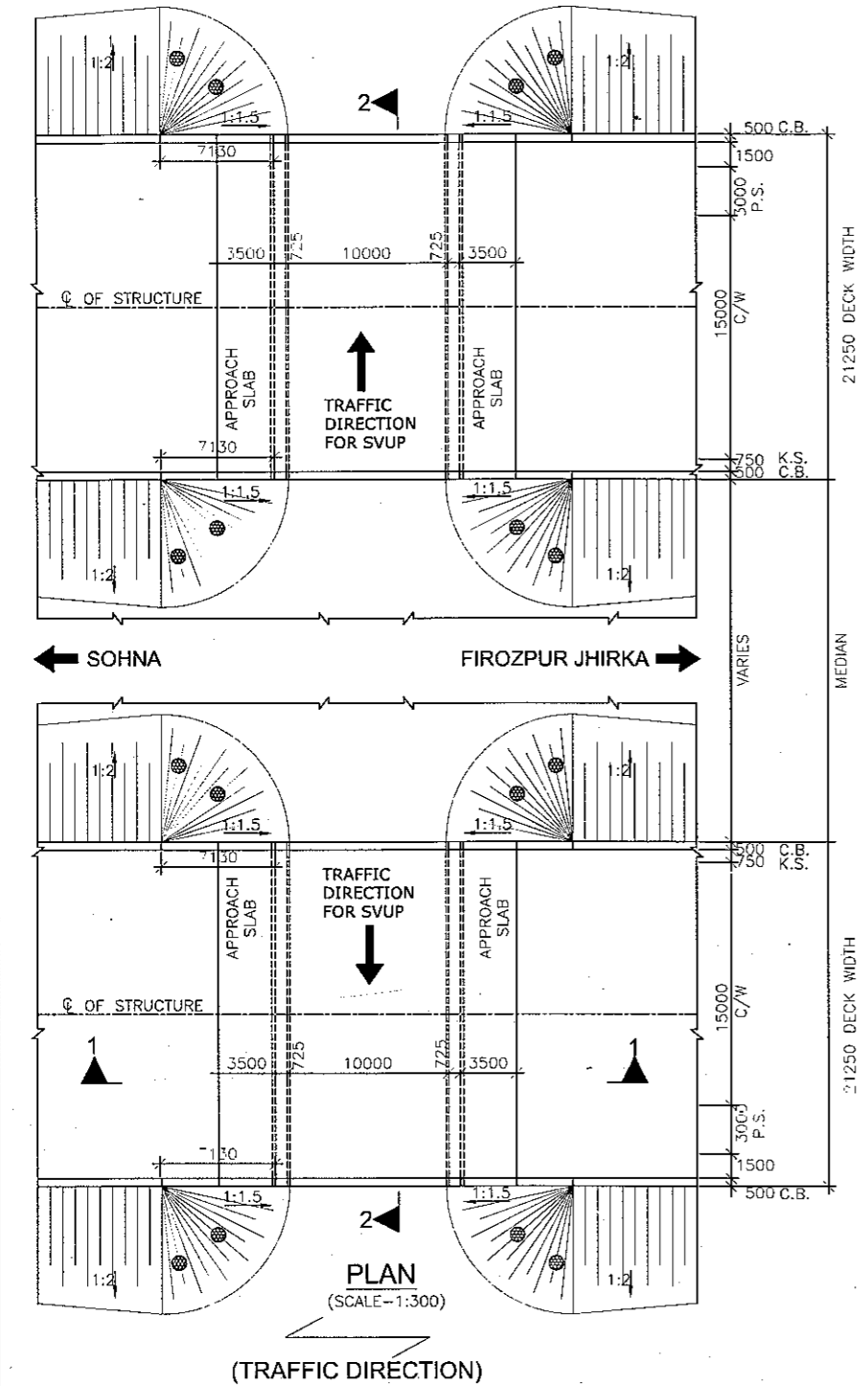
loopal





NOTES:-

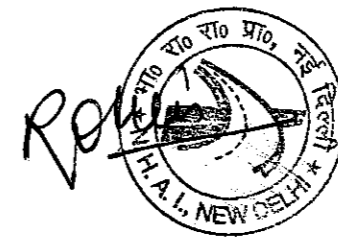
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					DATE : AUGUST 2018	Revision: R0	APPROVED BY
PREPARED BY KULDEEP SINGH		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ			

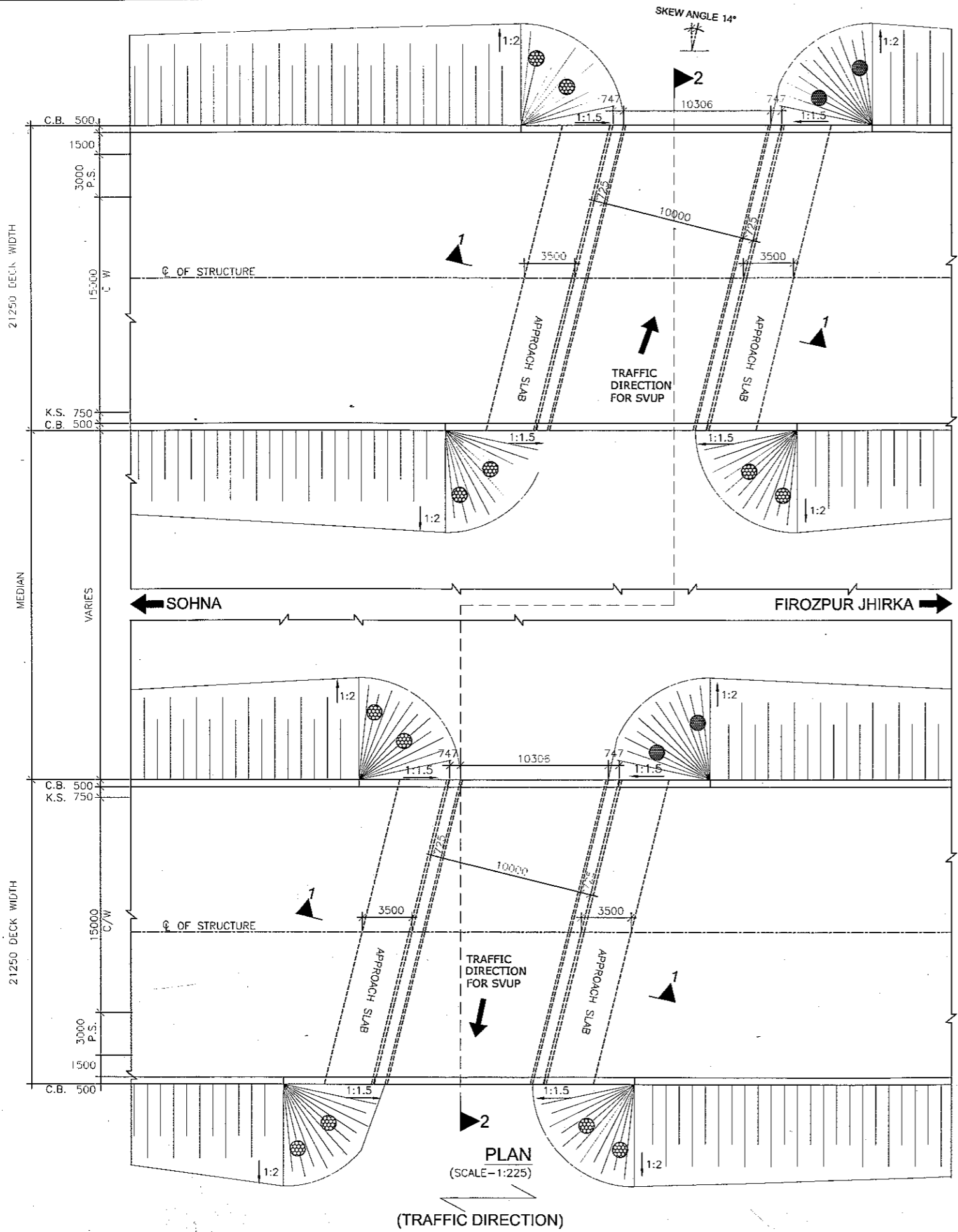


SVUP (1x10.0x4.5m.)
@ CH.55+961

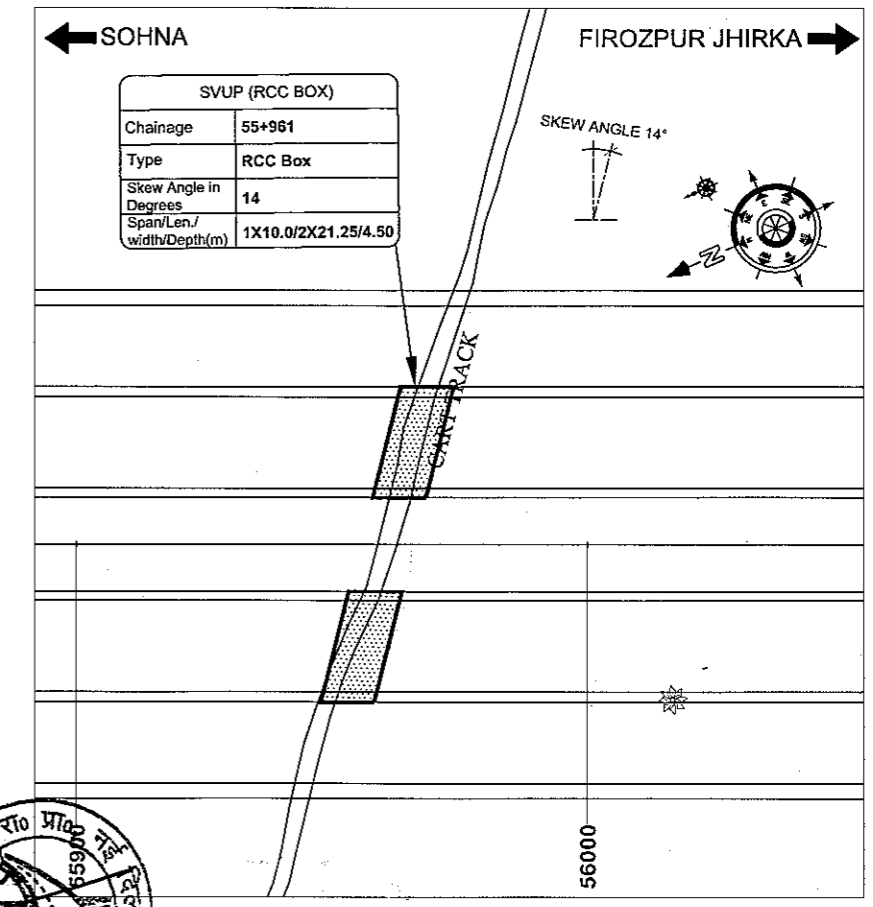


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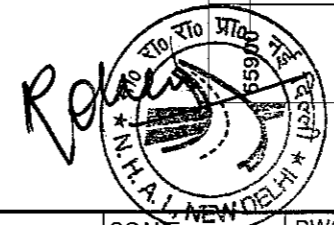
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(TRAFFIC DIRECTION)

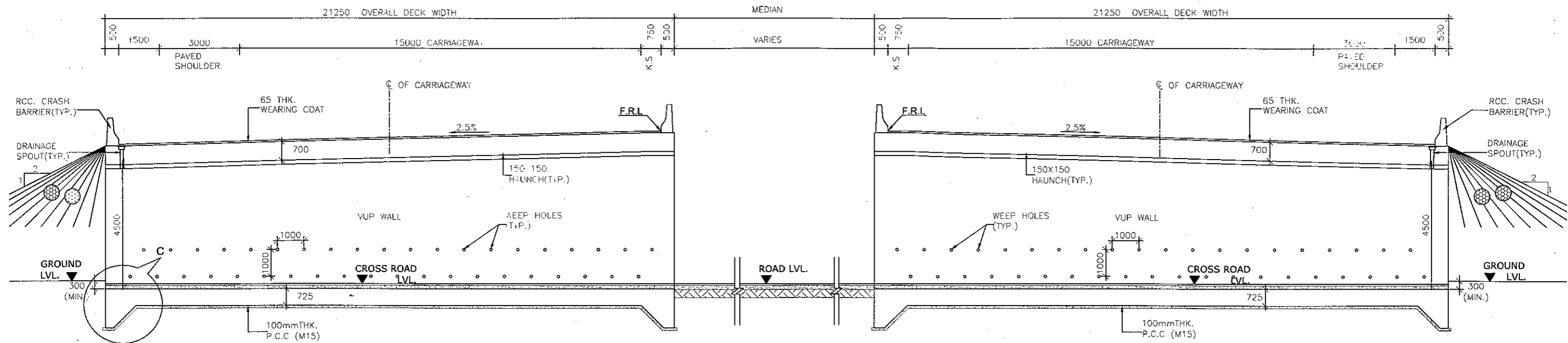


KEY PLAN

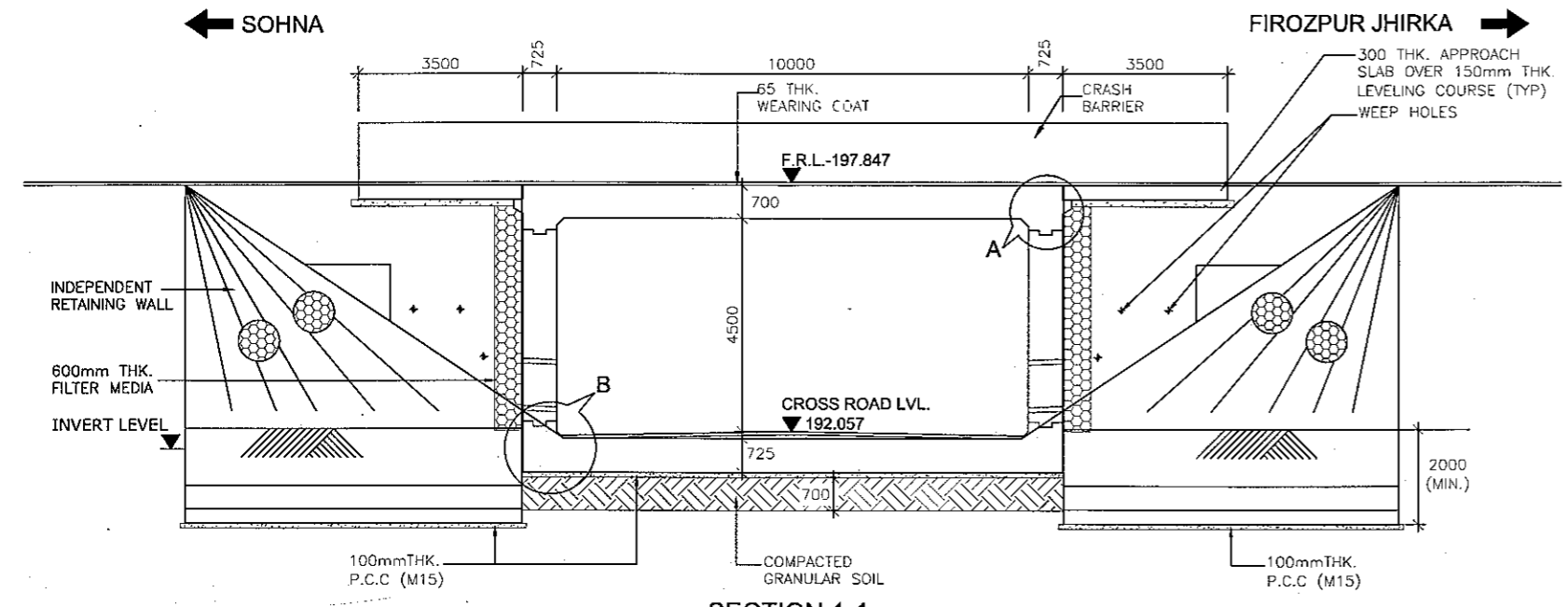
Bopek

GD&I INFRA PROJECTS PVT LTD
B-94, Okhla-II
New Delhi-20

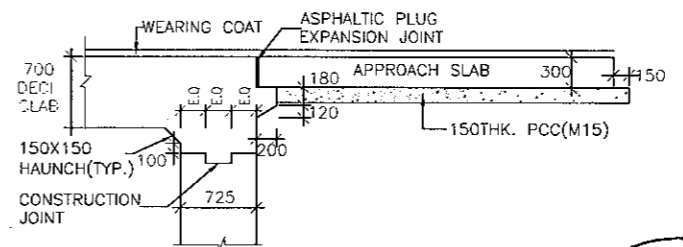




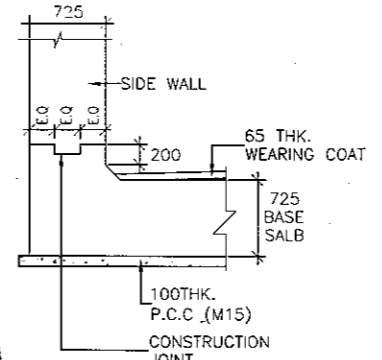
SECTION 2-2
(SCALE-1:150)



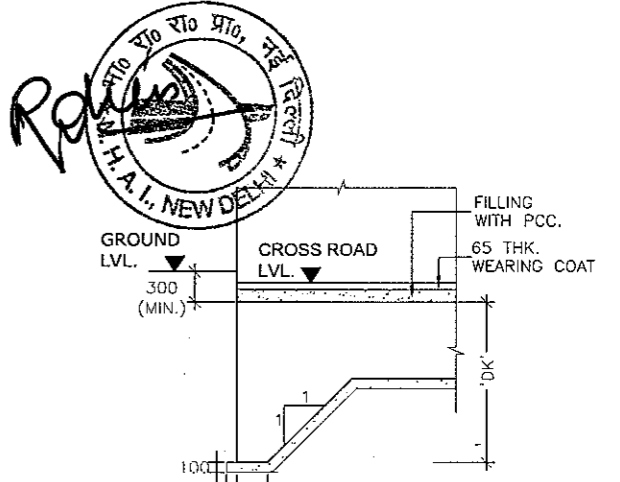
SECTION 1-1
(SCALE-1:100)



DETAIL - A
(SCALE-1:50)




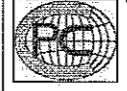
DETAIL - B
(SCALE-1:50)



DETAIL - C
(SCALE-1:50)



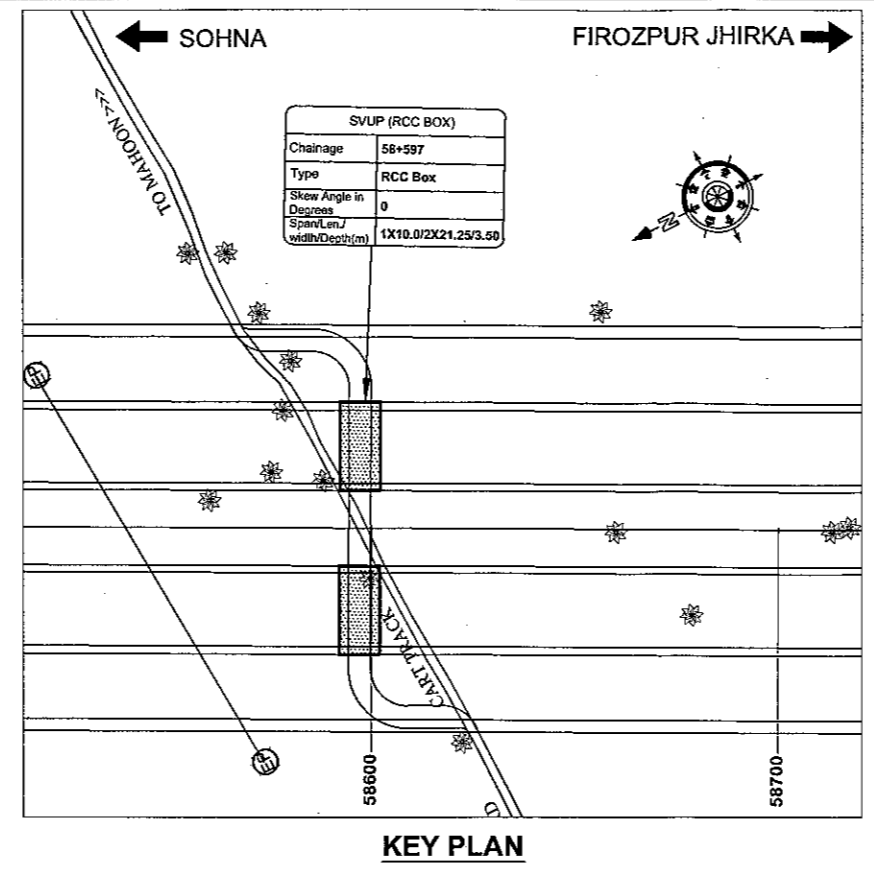
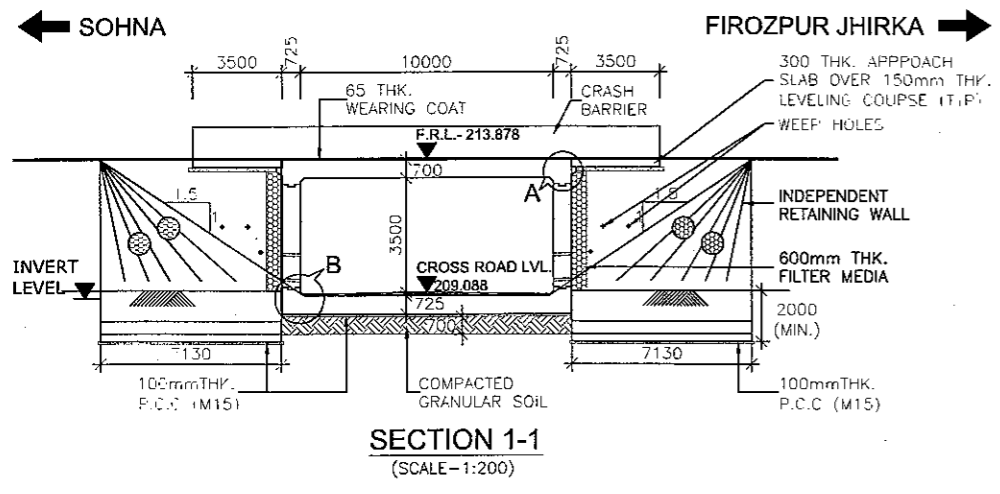
Loopale

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					DATE: AUGUST 2018 PREPARED BY: KULDEEP SINGH CHECKED BY: MOHD. SALIK APPROVED BY: NEERAJ

SVUP (1x10.0x3.5m.)
@ CH.58+597

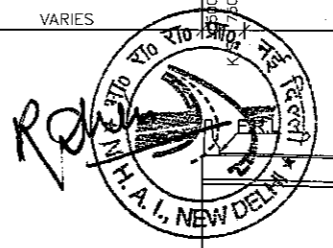
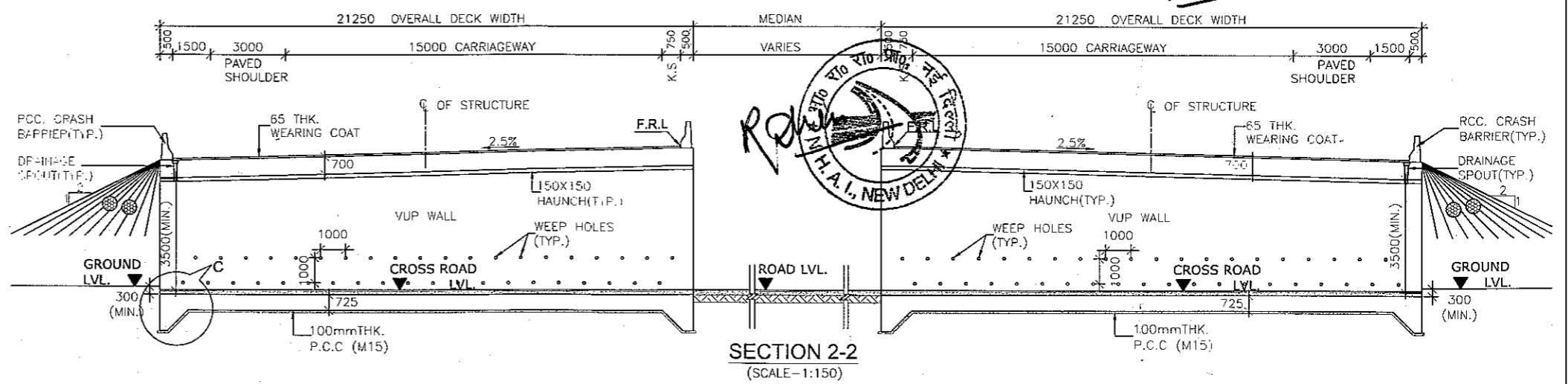
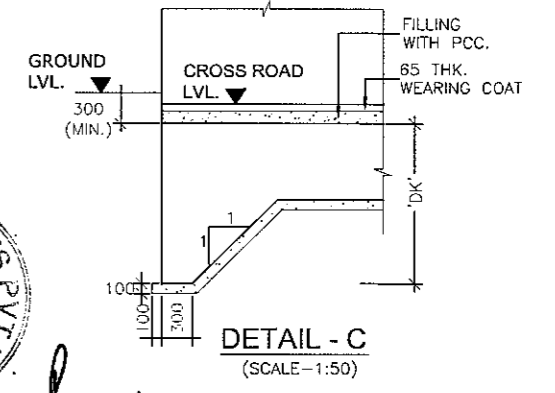
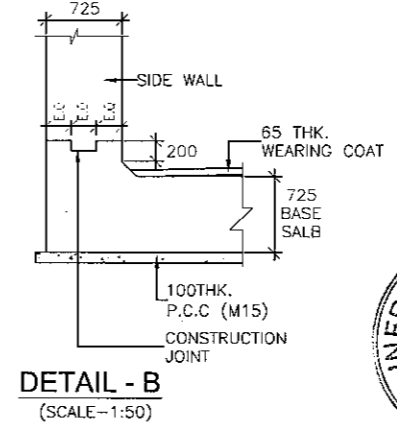
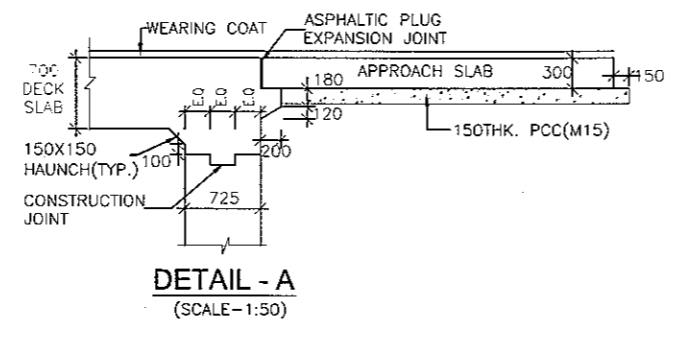
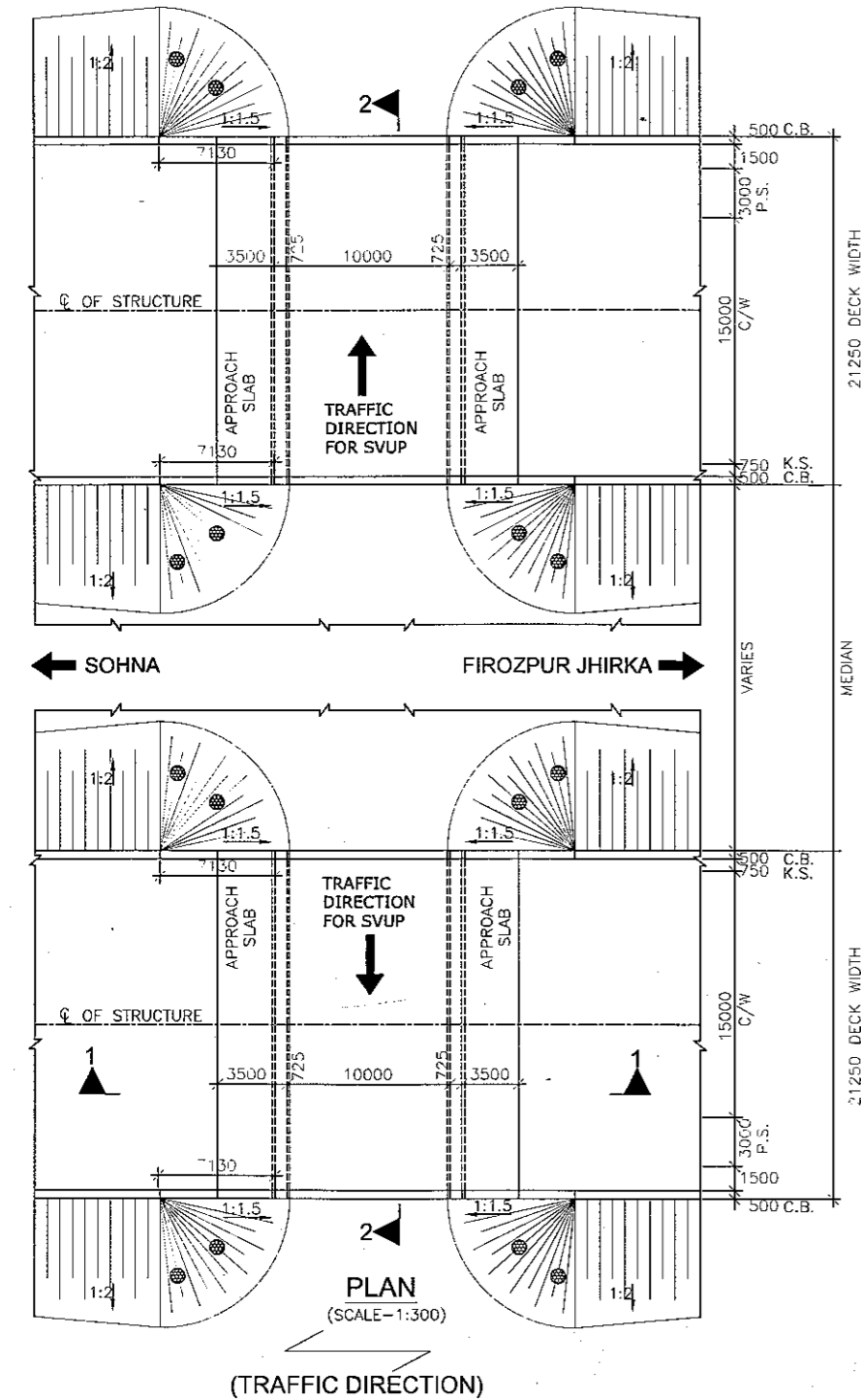


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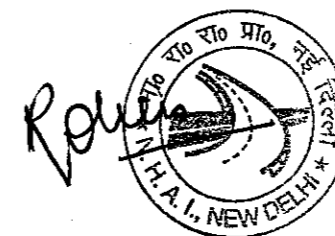
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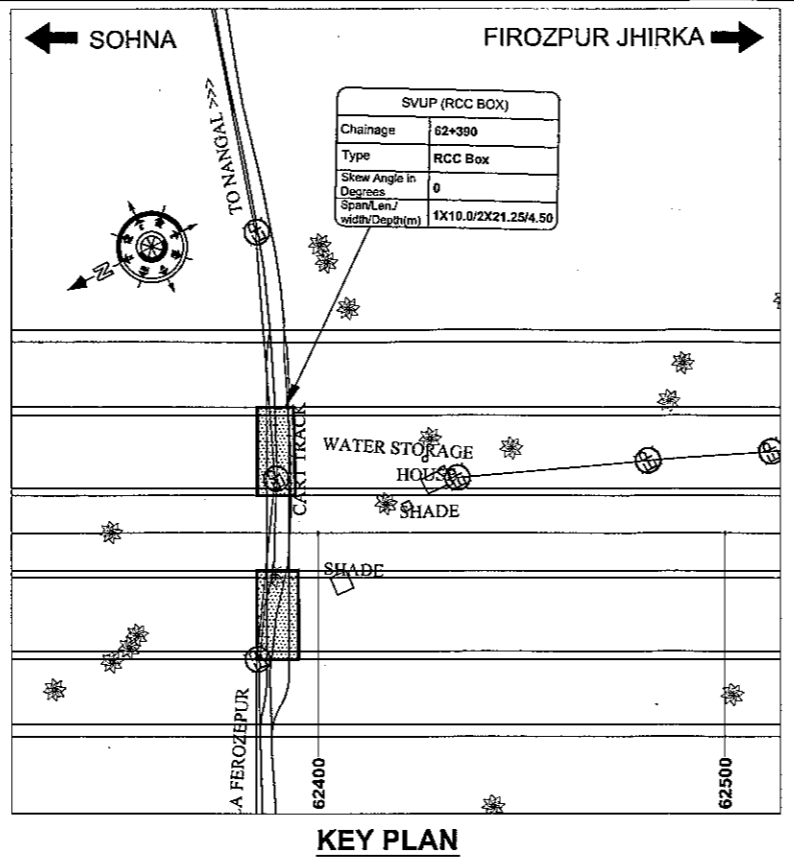
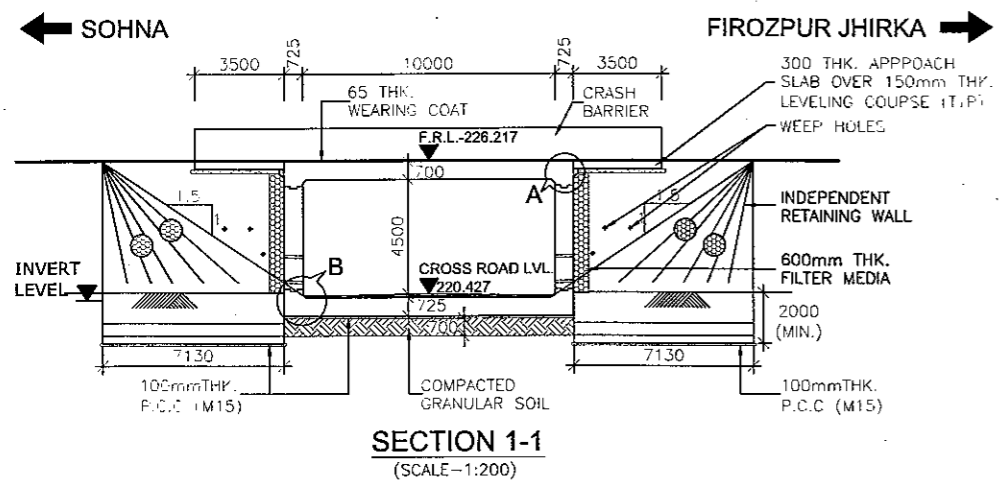
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					DATE : AUGUST 2018
PREPARED BY KULDEEP SINGH		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ	

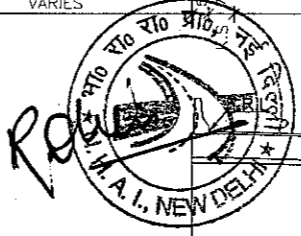
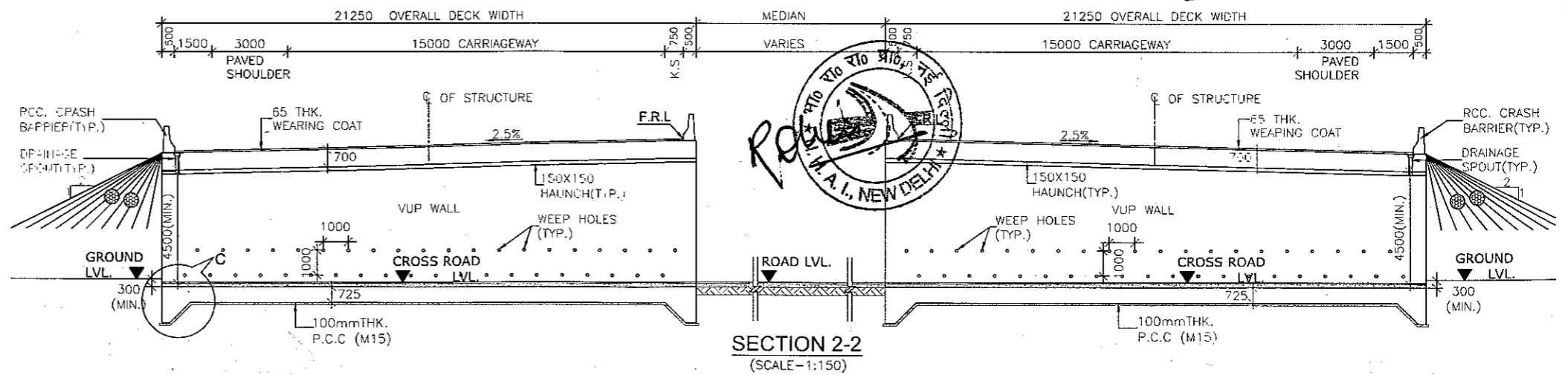
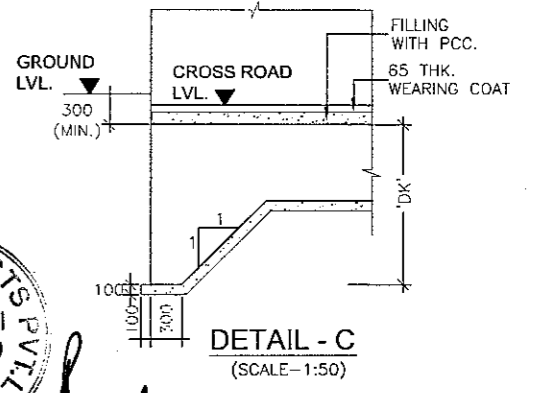
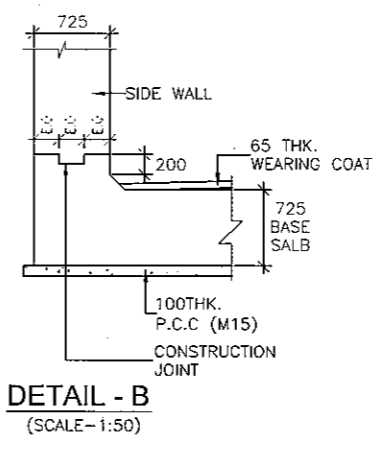
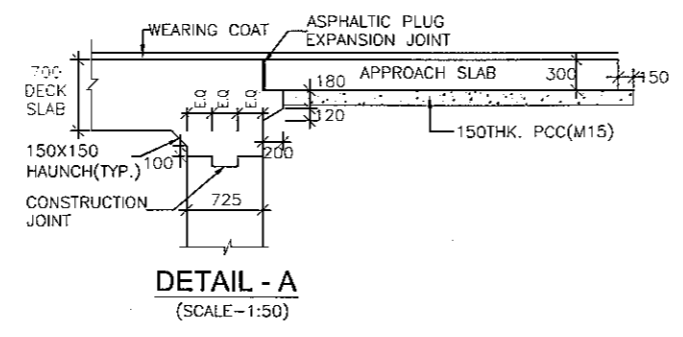
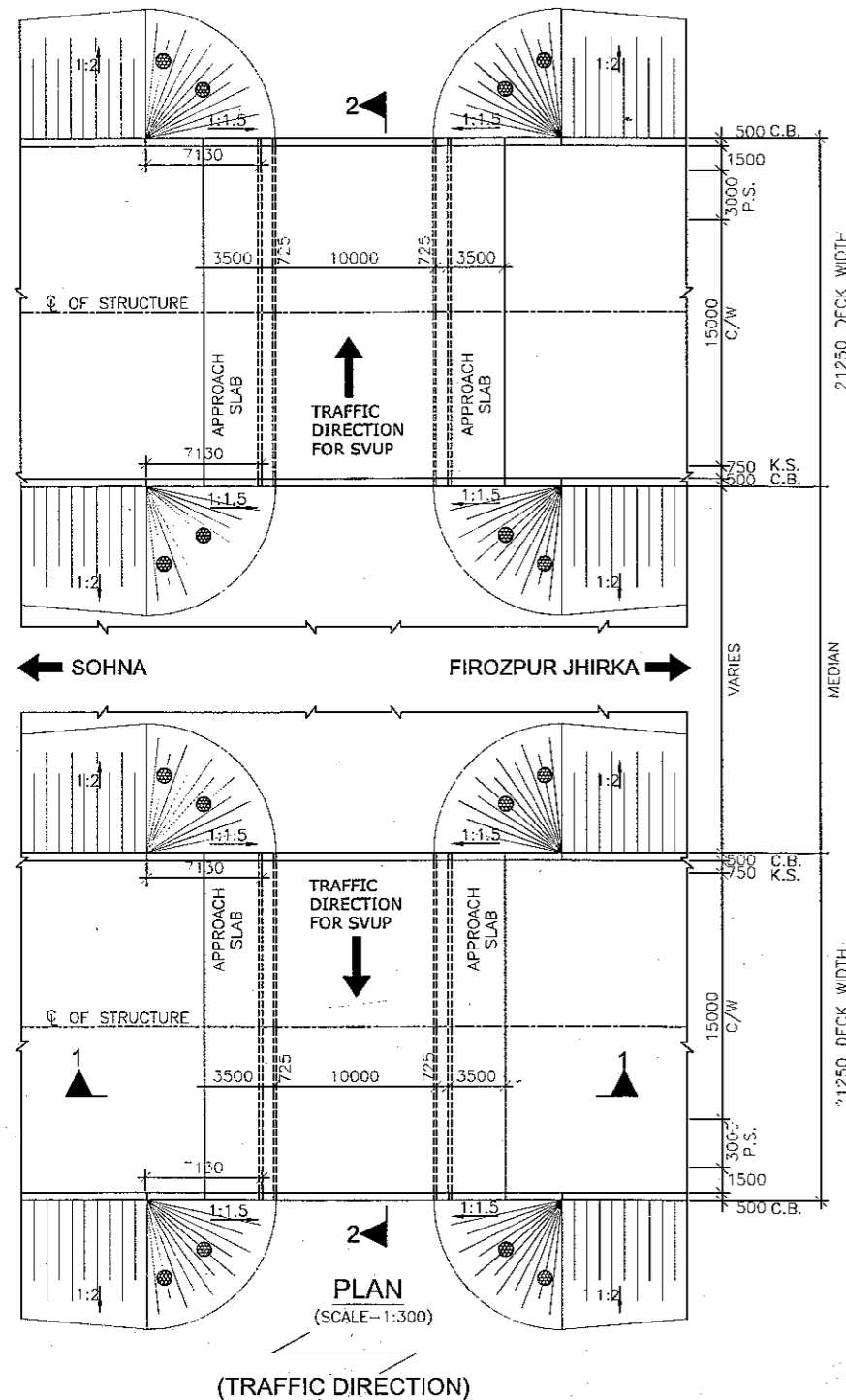
SVUP (1x10.0x4.5m.)
@ CH.62+390





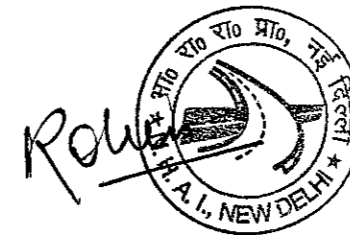
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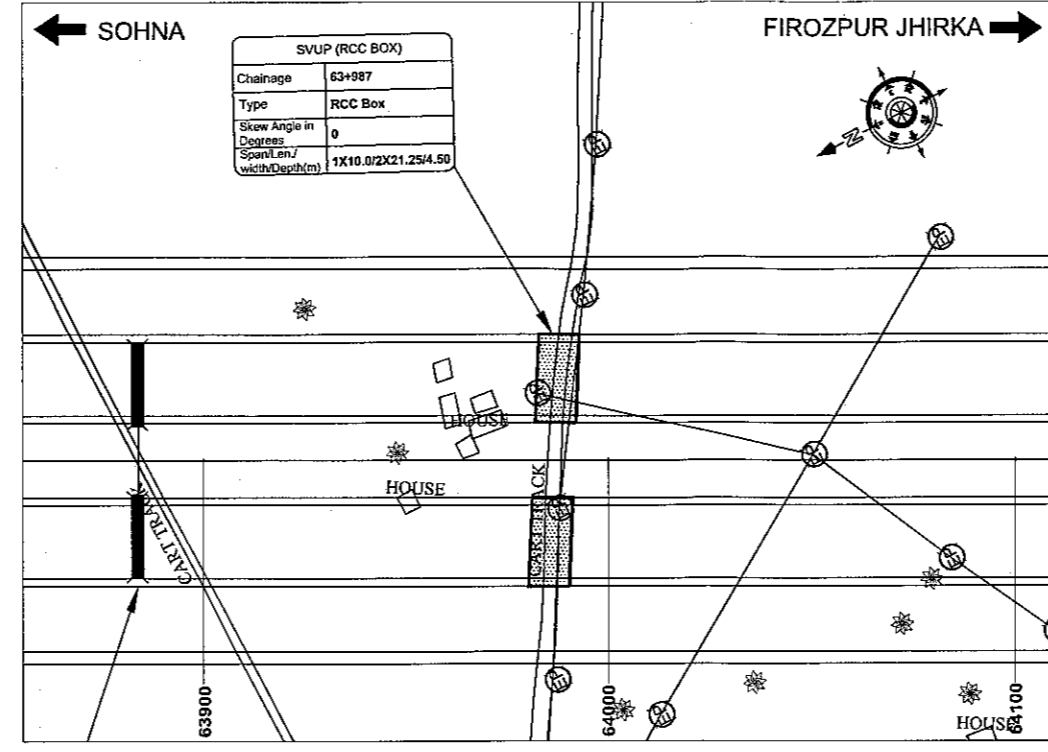
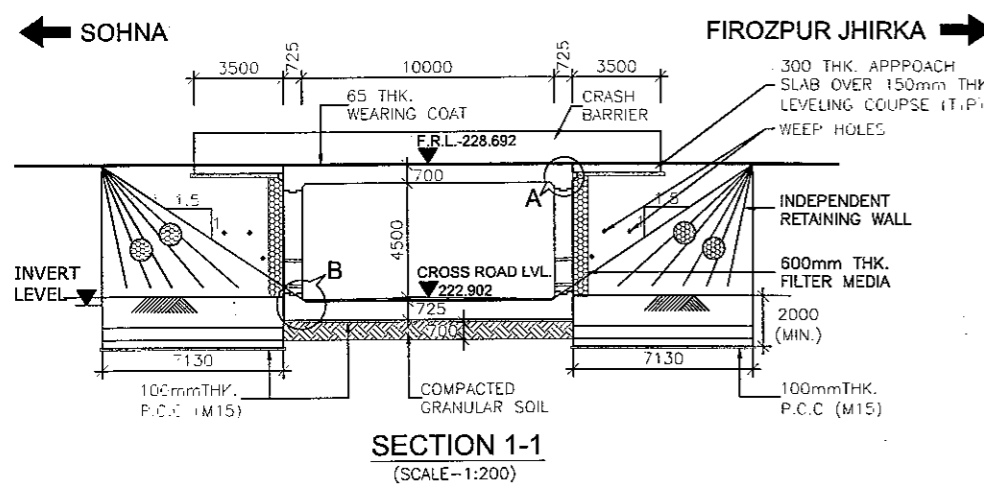
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- WEED HOLES SHALL BE PROVIDED @ 1000 MM C/C STAGGERED. BOTH HORIZONTALLY AND VERTICALLY IN RETAINING WALL FROM GROUND LEVEL TO HIGH FLOOD LEVEL.
- BACKFILLING BEHIND BOX SHALL BE CARRIED OUT SIMULTANEOUSLY.
- GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.2008
- 65MM THICK WEARING COAT SHALL CONSISTS OF LAYER OF OF MASTIC ASPHALT OF 25mm THK. OVER 40MM BITUMINOUS COURSE.
- 'DK' IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS VALUE OF 'DK'
UPTO 900mm : 1200mm.
GREATER THAN 900mm : d+300mm
d = BASE SLAB THICKNESS
- 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
- FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
- THIS STRUCTURE LIES IN SEISMIC ZONE V.
- F.R.L. IS TAKEN AT MEDIAN EDGE.



CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- 22 GENERAL ARRANGEMENT DRAWING SVUP (SIZE 1X10.0X4.5m) AT CH.- 62+390 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-62+390/S-100		
					DATE: AUGUST 2018	Revision: R0	APPROVED BY NEERAJ
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK						

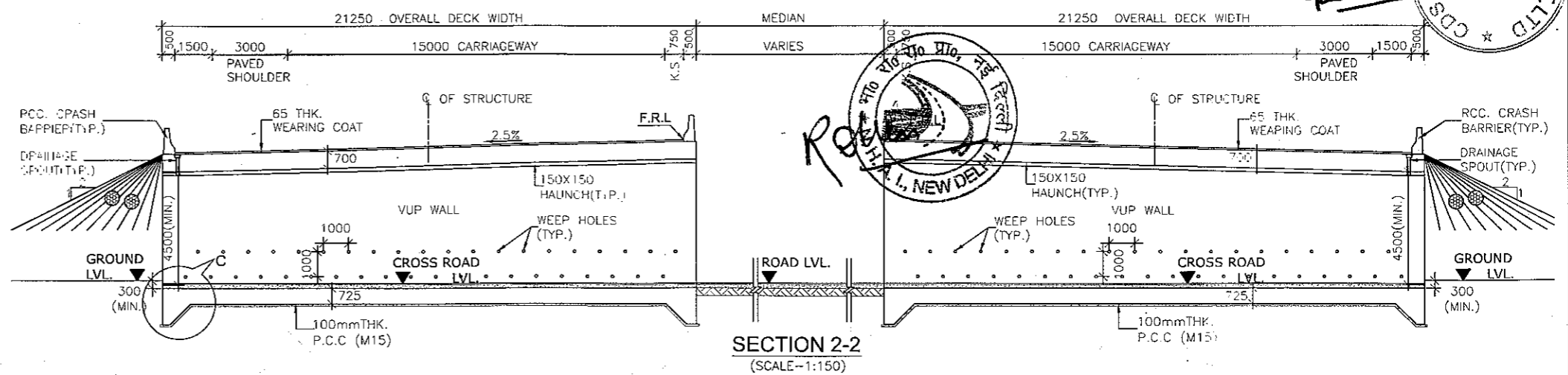
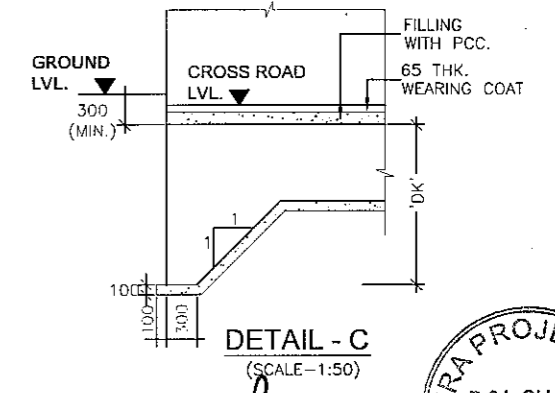
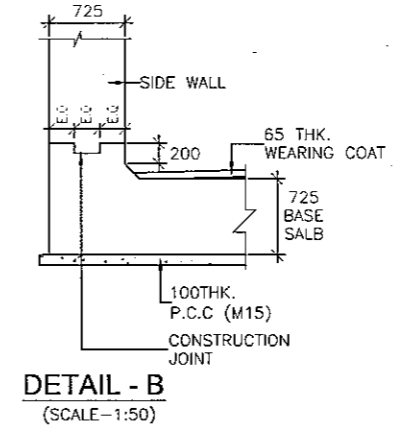
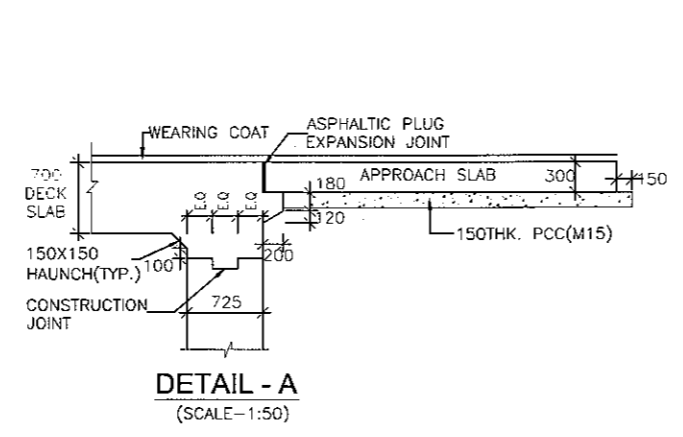
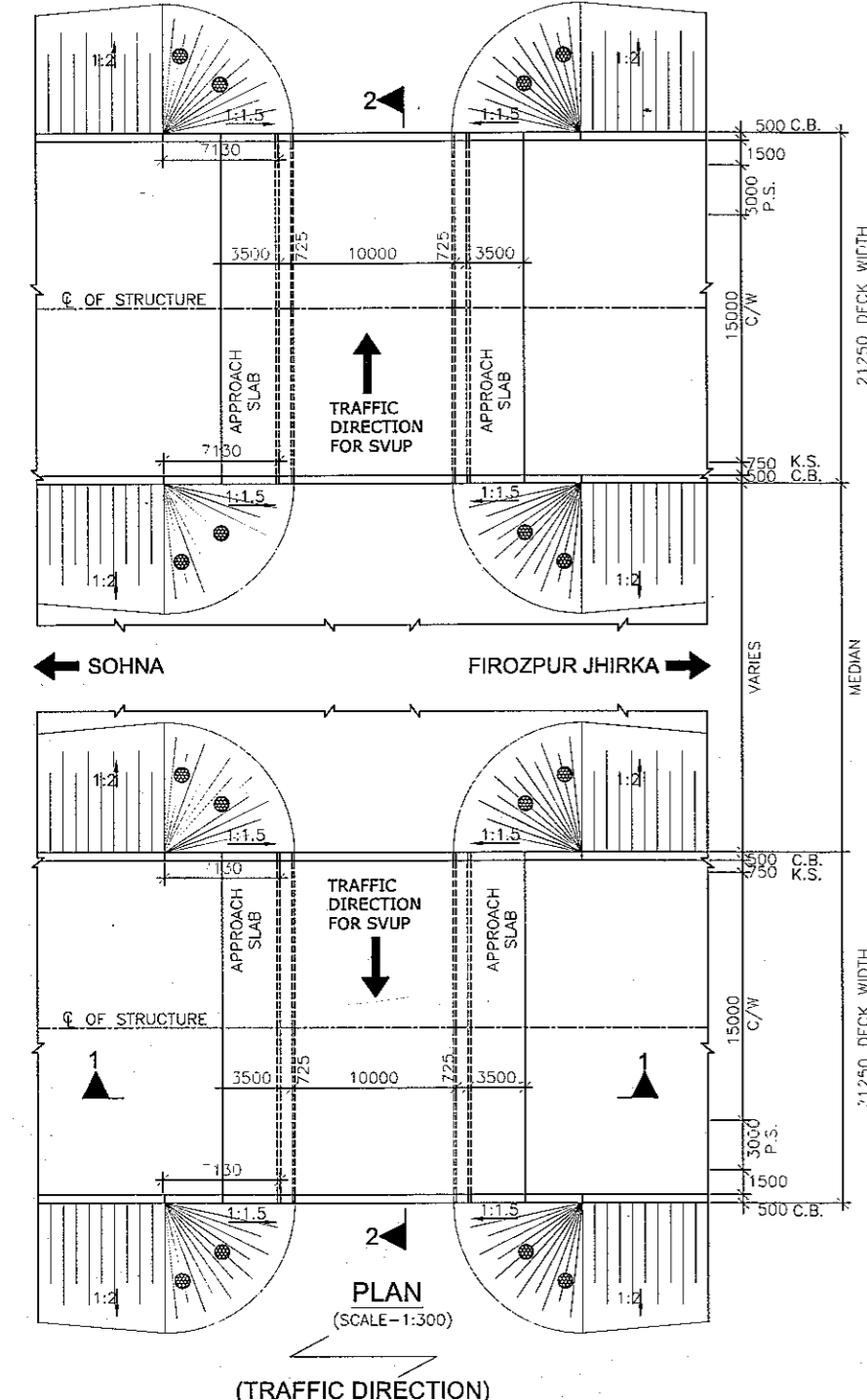
SVUP (1x10.0x4.5m.)
@ CH.63+987





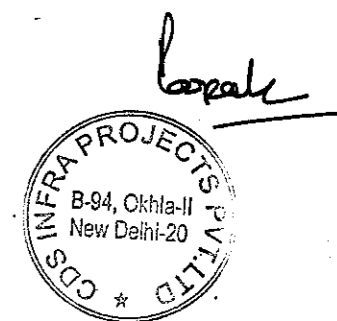
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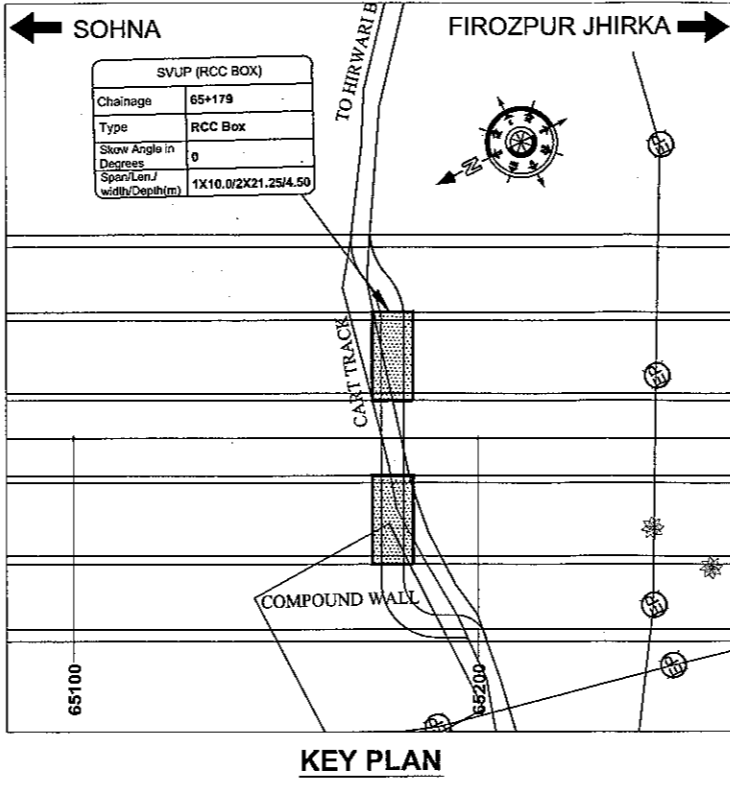
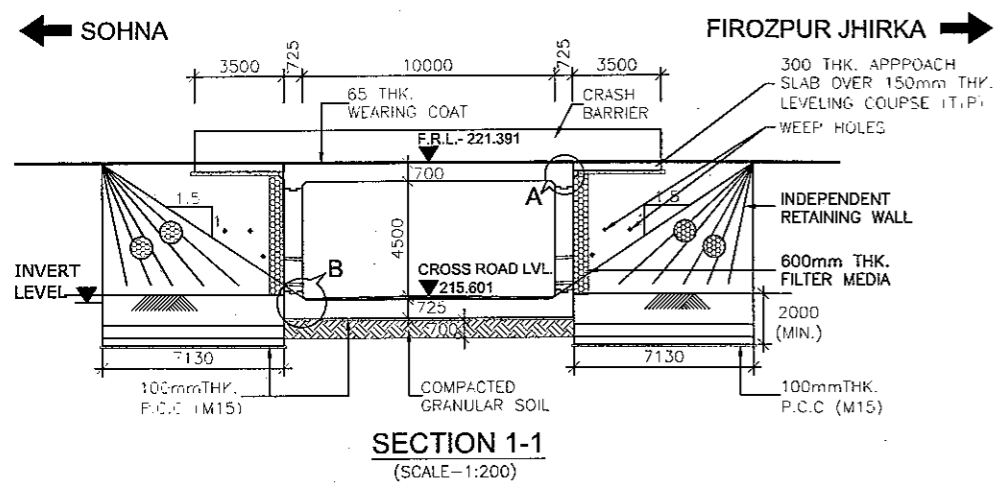
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- EXPANSION GAP (20mm) WILL BE FILLED UP BY ASPHALTIC PLUG EXPANSION JOINT.
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APPROACH SLAB : M30
RCC BOX : M30
RETAINING WALL : M30
RCC RAILING : M30
CRASH BARRIER : M40
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					DATE : AUGUST 2018
PREPARED BY KULDEEP SINGH		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ	

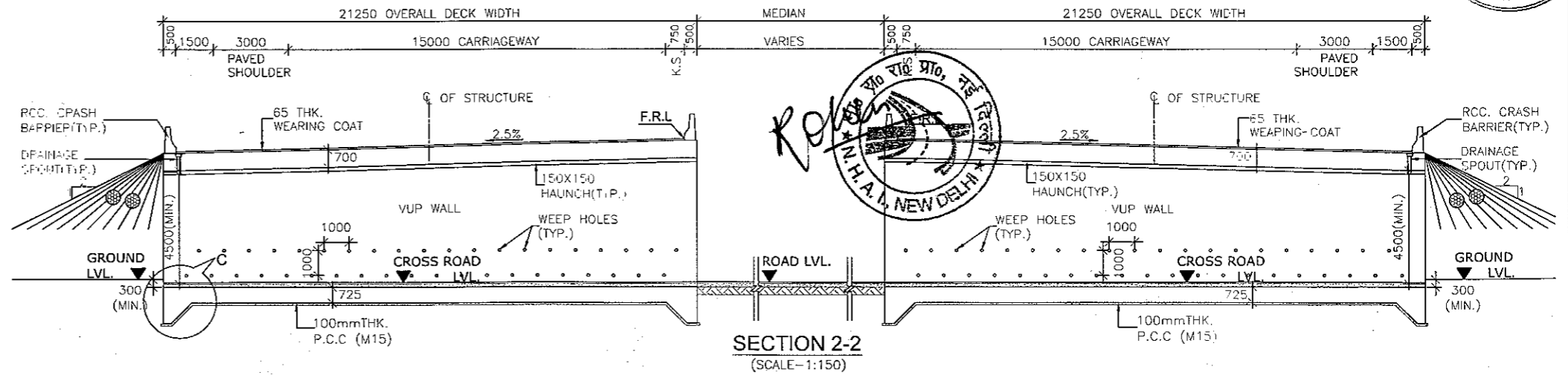
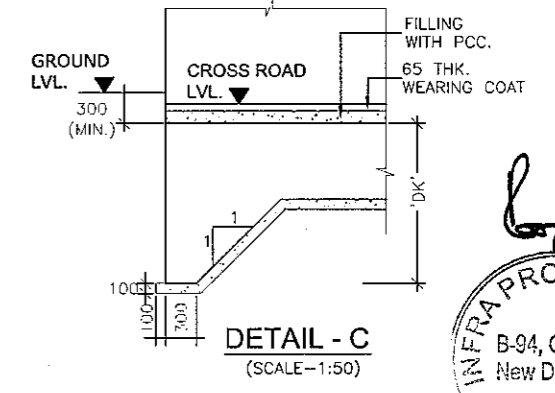
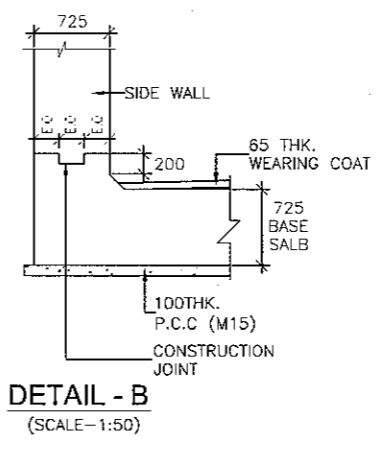
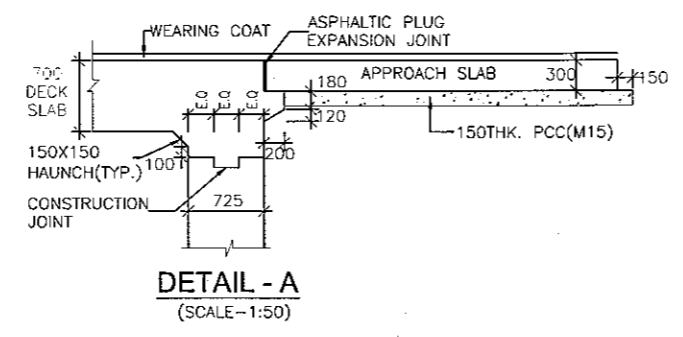
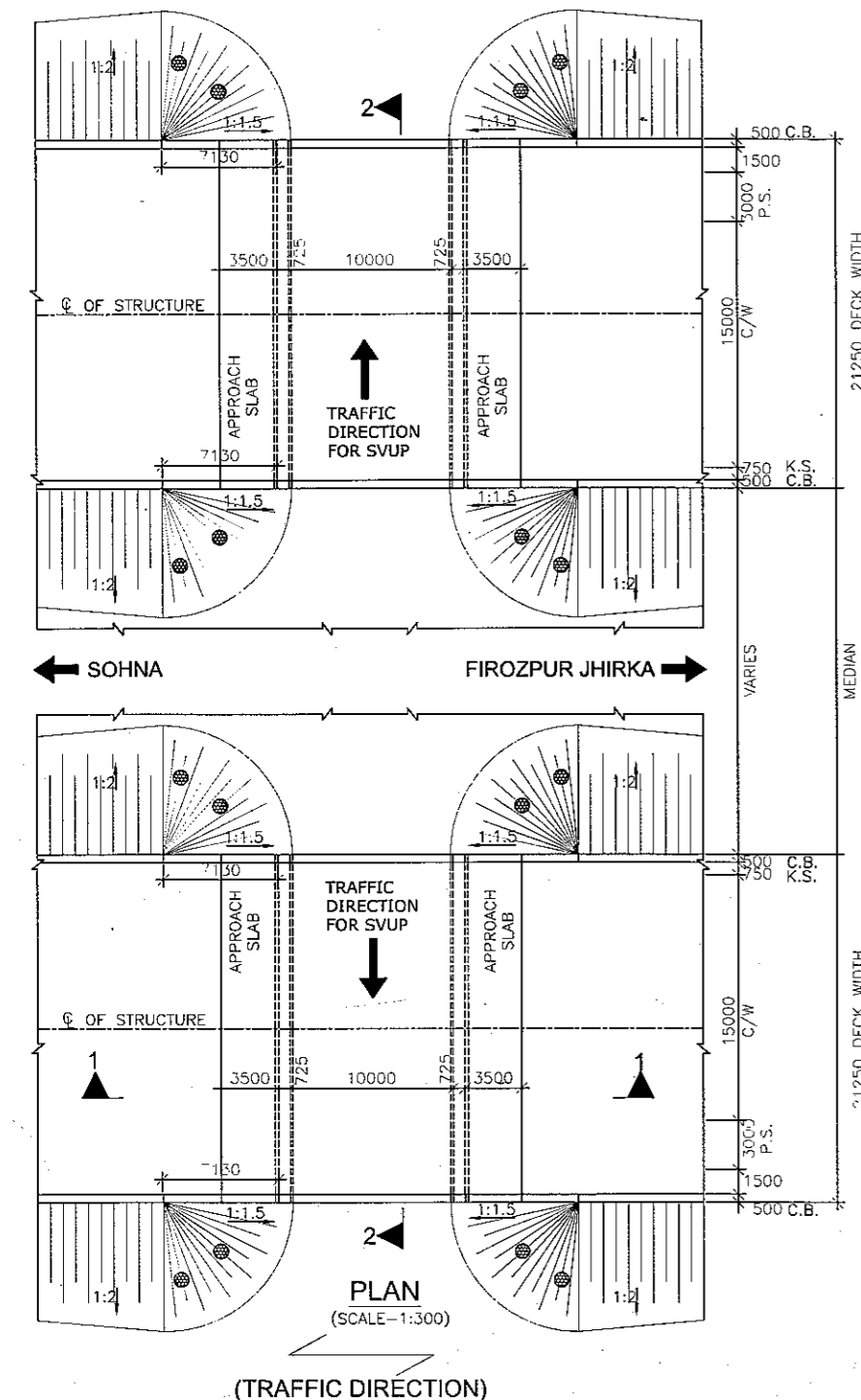
SVUP (1x10.0x4.5m.)
@ CH.65+179





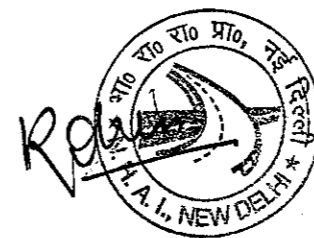
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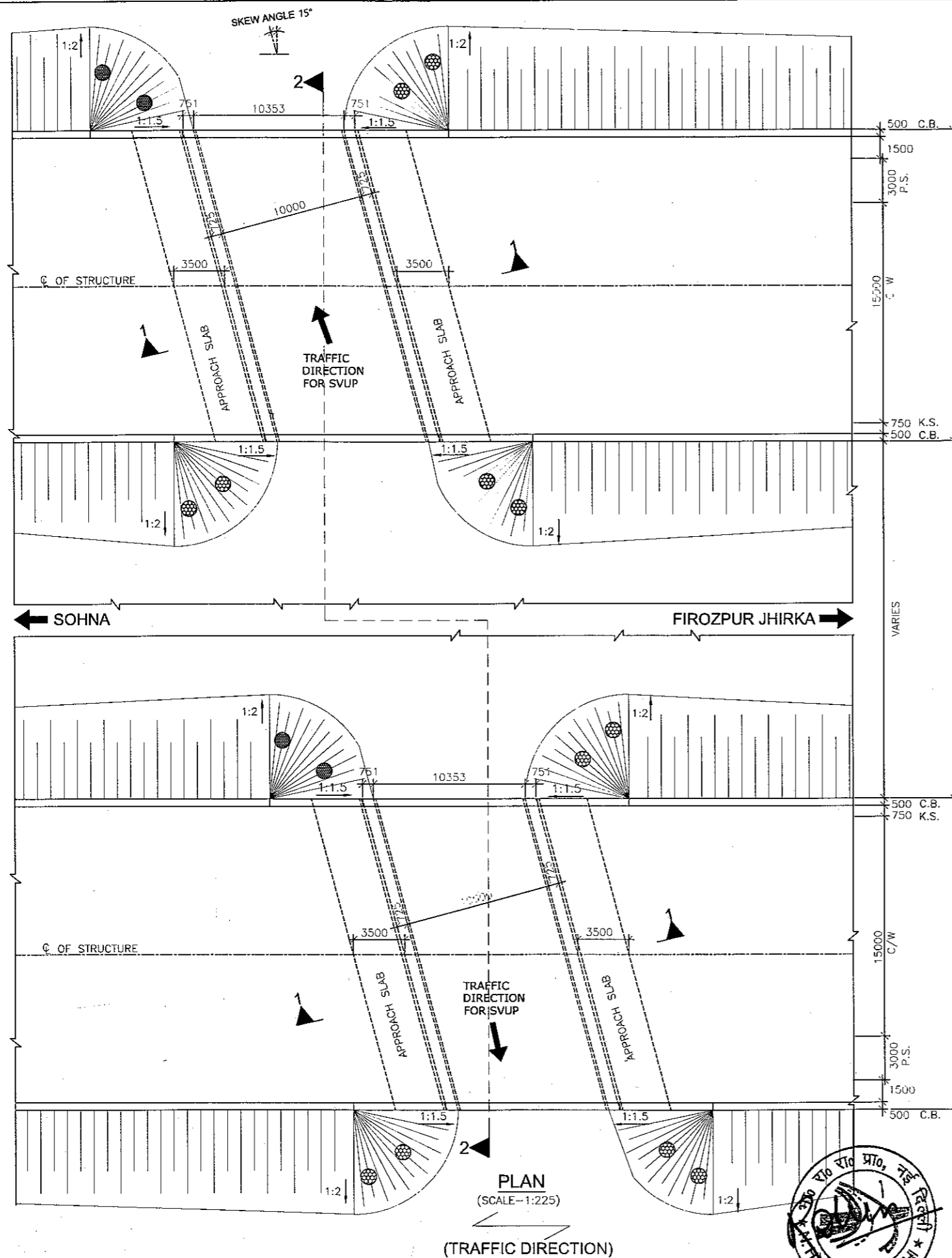
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SVUP (1x10.0x4.5m.)
@ CH.67+680

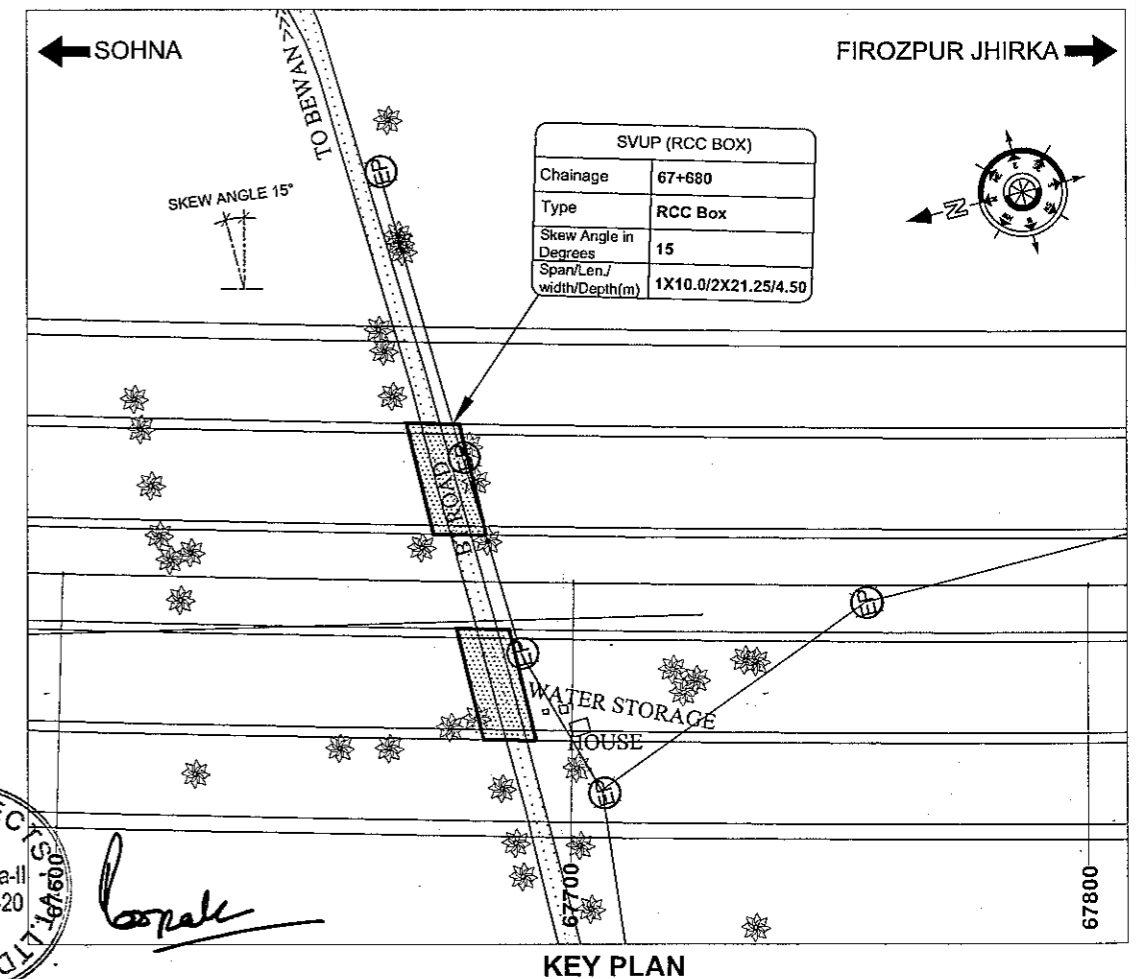




PLAN
(SCALE-1:225)
(TRAFFIC DIRECTION)

NOTES:-

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KEY PLAN

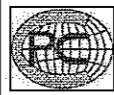
SVUP (RCC BOX)	
Chainage	67+680
Type	RCC Box
Skew Angle in Degrees	15
Span/Len./width/Depth(m)	1X10.0/2X21.25/4.50

CLIENT:-



National Highways Authority of India
(Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:-



Chaitanya Projects Consultancy Pvt. Ltd.
C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22,
SECTOR-4, VAISHALI, GHAZIABAD
PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-

Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE :-

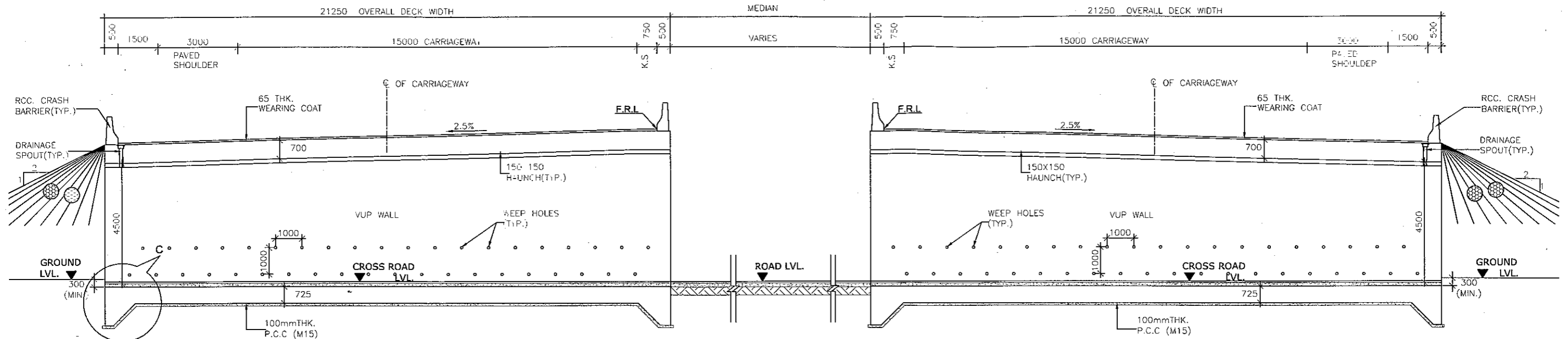
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DWG TITLE:-

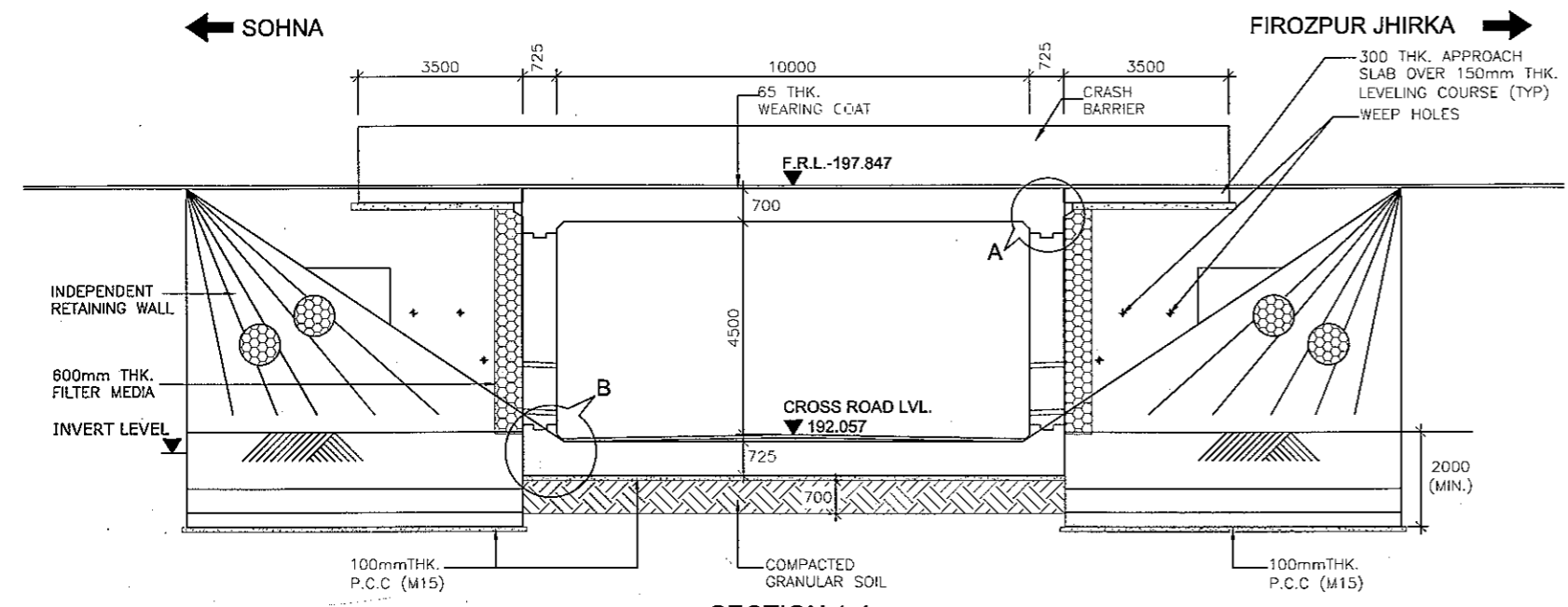
GENERAL ARRANGEMENT DRAWING
SVUP(SIZE 1X10.0X4.5m)
AT CH.- 67+680
(SOHNA - FIROZPUR JHIRKA)

DRAWING No :- (SHEET 1 OF 2)

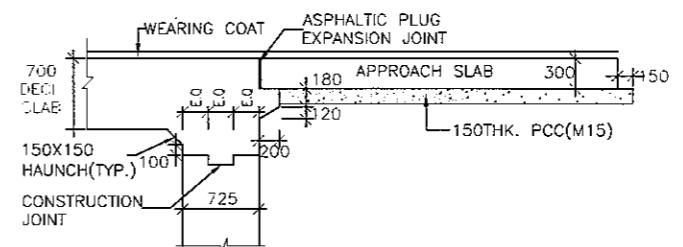
CPC/P-152/CH-67+680/S-100
DATE : AUGUST 2018
Revision: R0
PREPARED BY : KULDEEP SINGH
CHECKED BY : MOHD. SALIK
APPROVED BY : NEERAJ



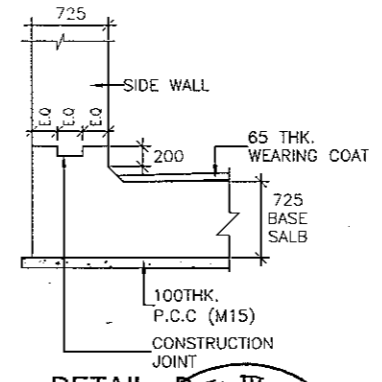
SECTION 2-2
(SCALE-1:150)



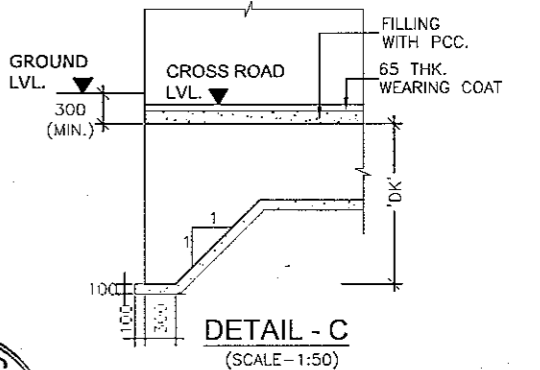
SECTION 1-1
(SCALE-1:100)



DETAIL - A
(SCALE-1:50)



DETAIL - B
(SCALE-1:50)



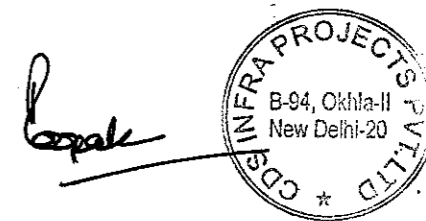
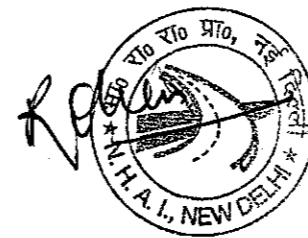
DETAIL - C
(SCALE-1:50)

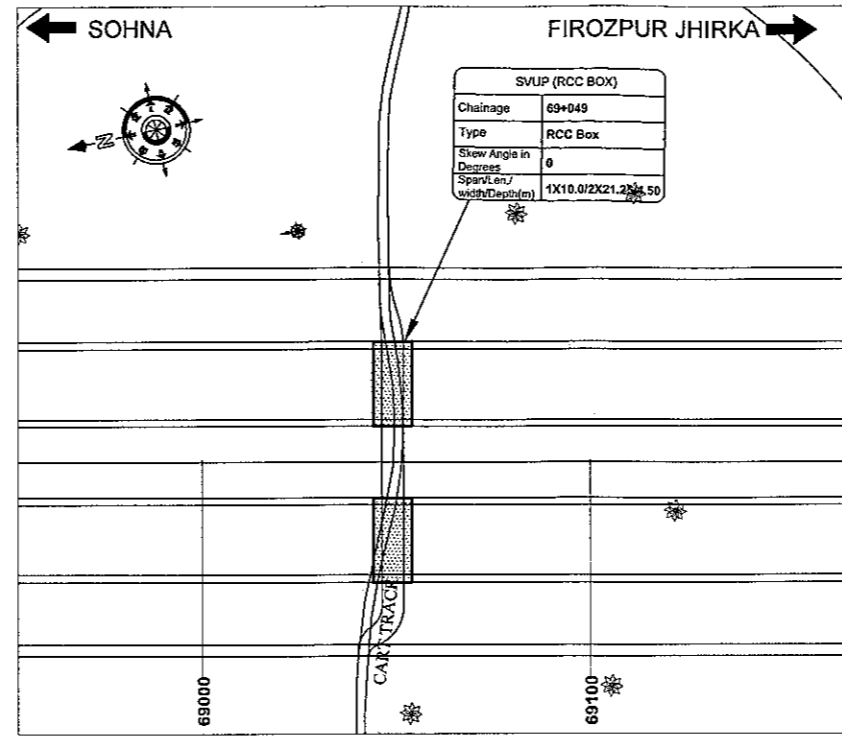
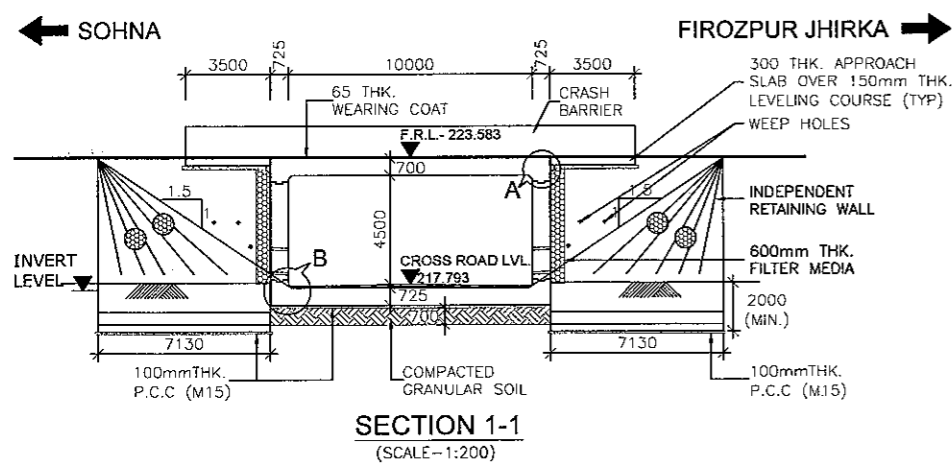


Signature

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					DATE : AUGUST 2018
PREPARED BY KULDEEP SINGH		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ	

SVUP (1x10.0x4.5m.)
@ CH.69+049





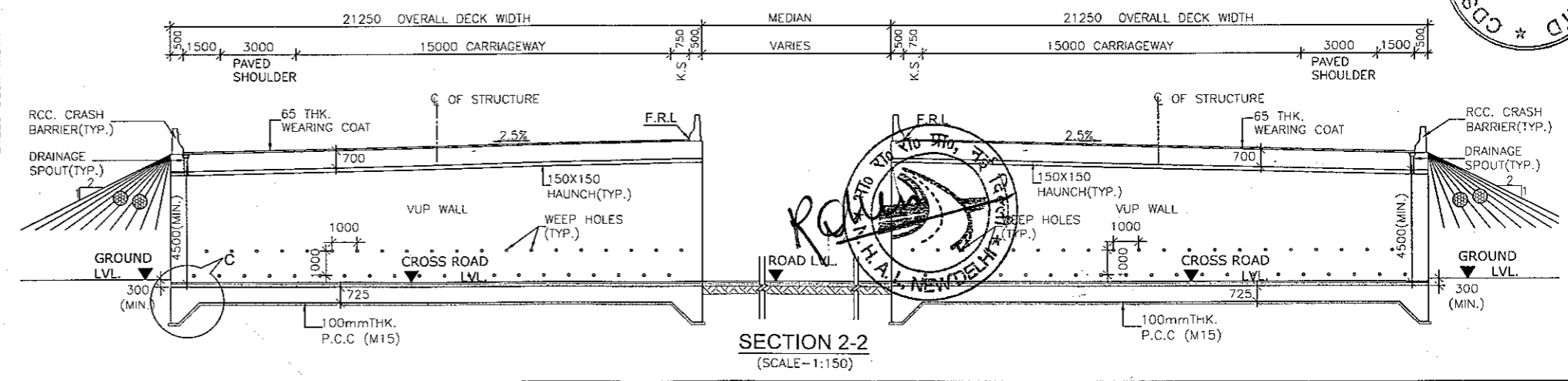
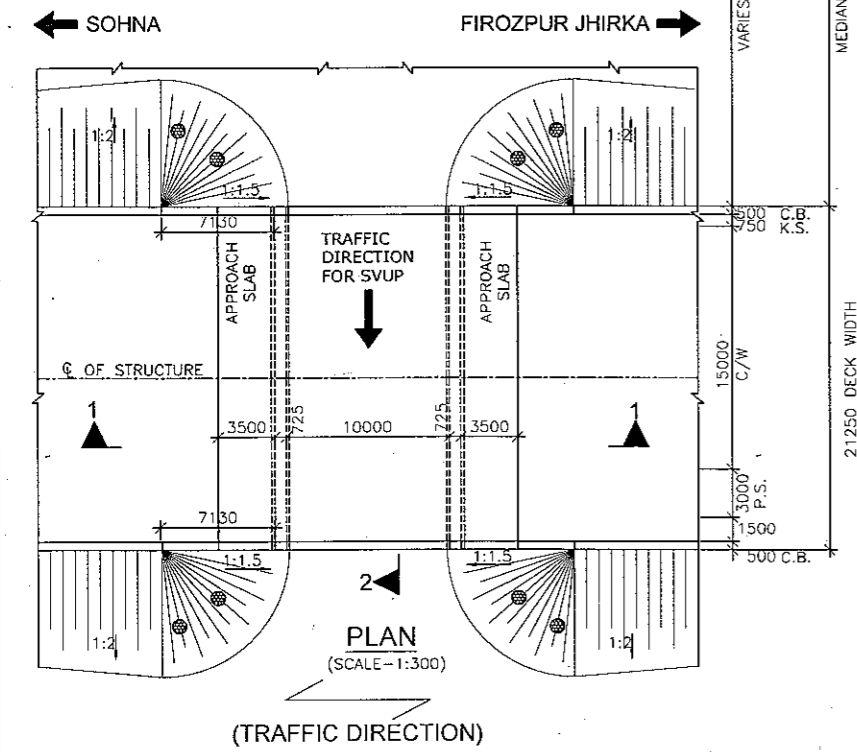
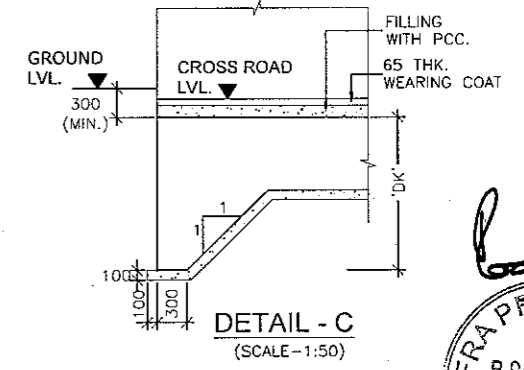
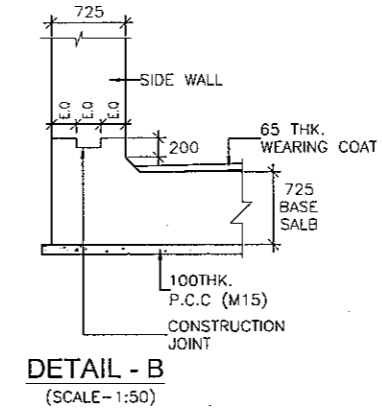
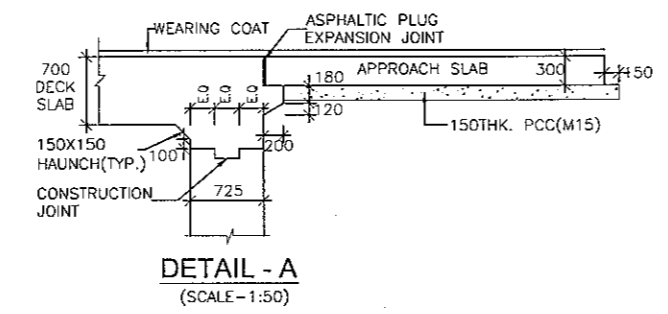
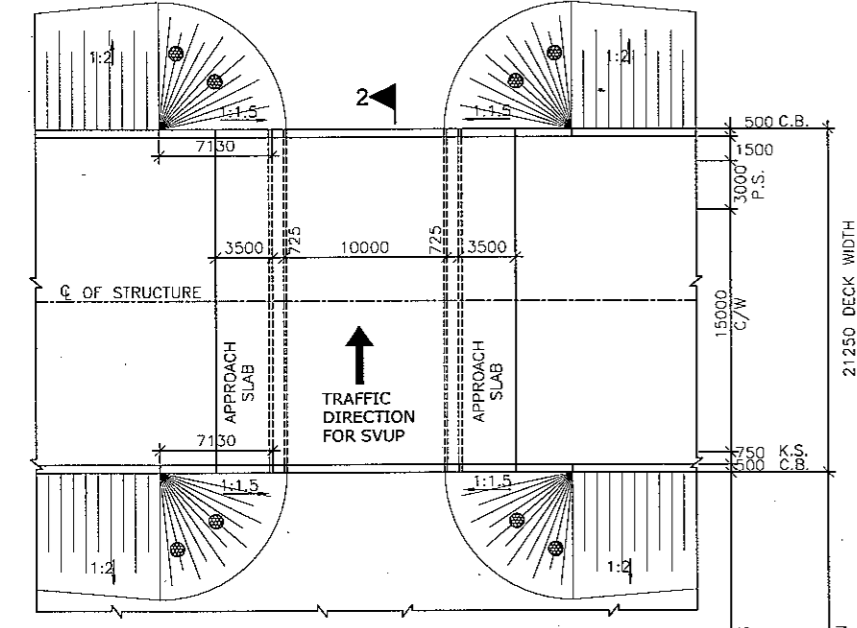
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RCC BOX	: M30
RETAINING WALL	: M30
RCC RAILING	: M30
CRASH BARRIER	: M40
 - NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-

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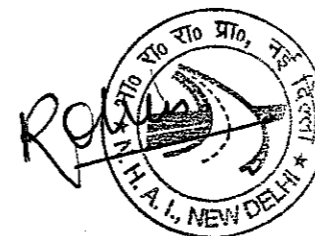
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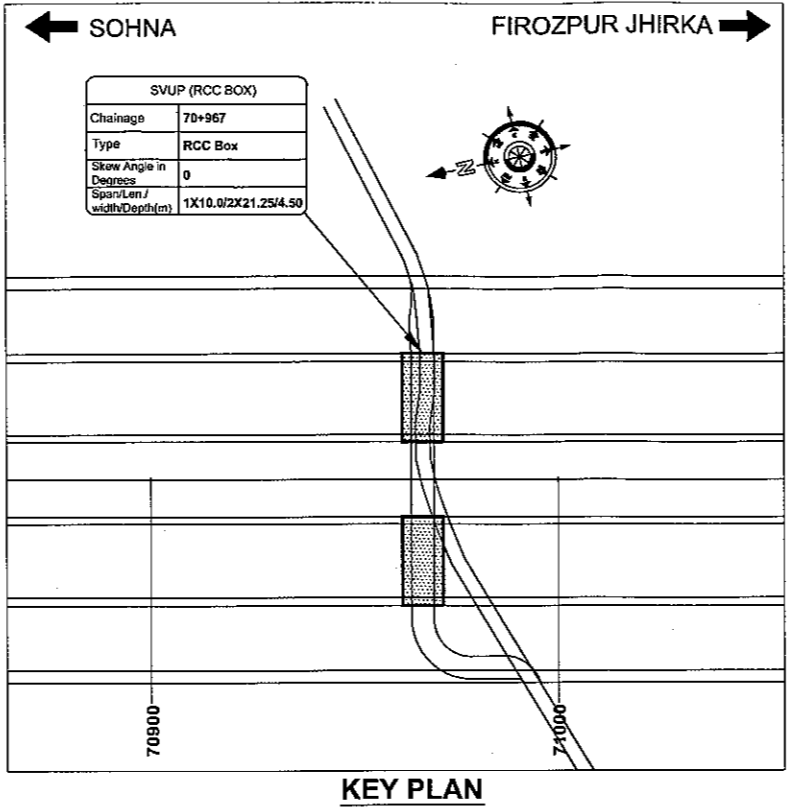
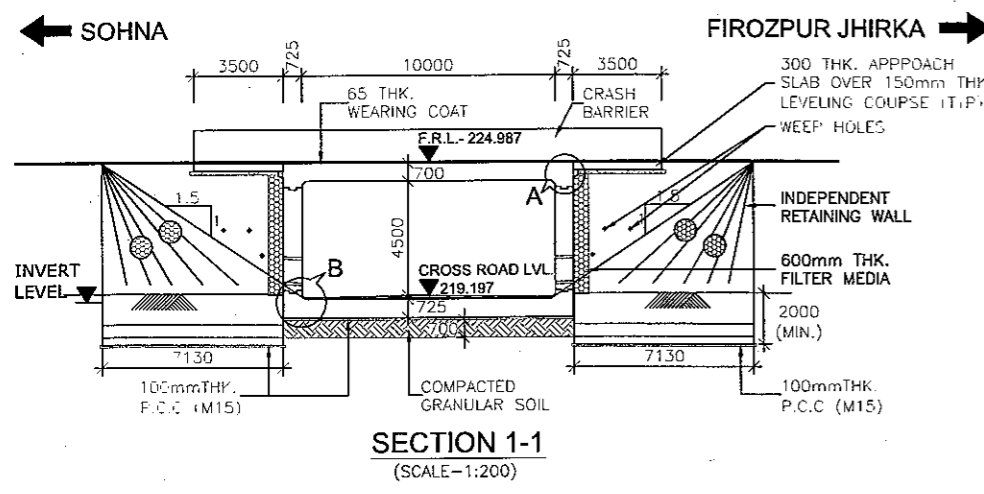
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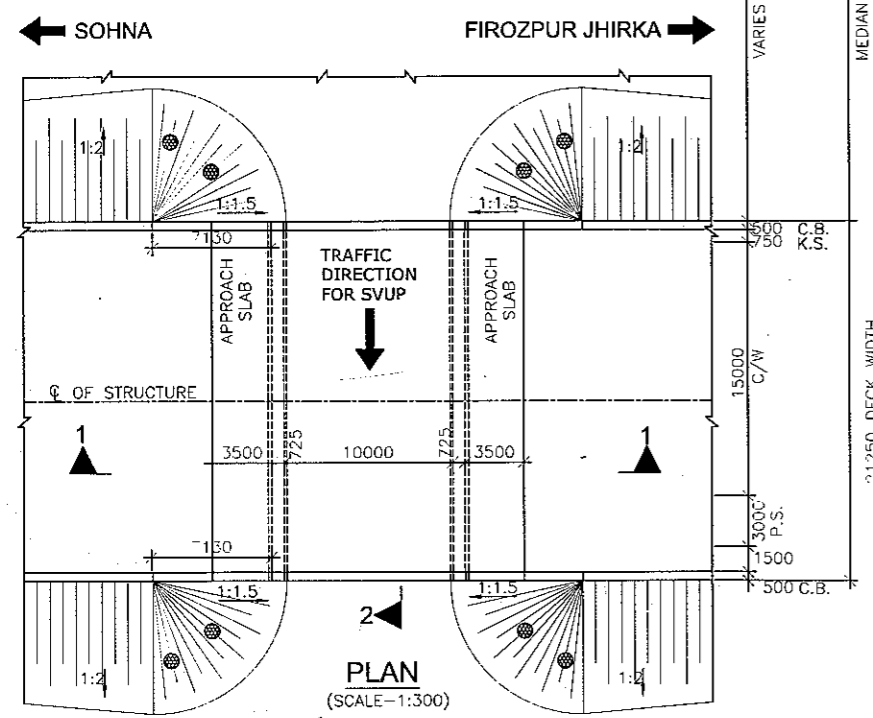
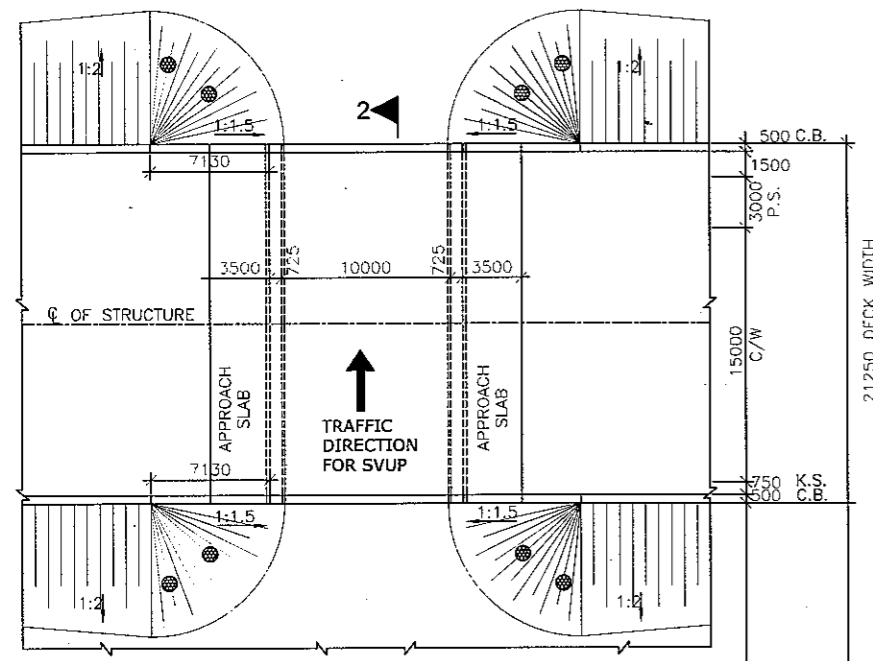
SVUP (1x10.0x4.5m.)
@ CH.70+967



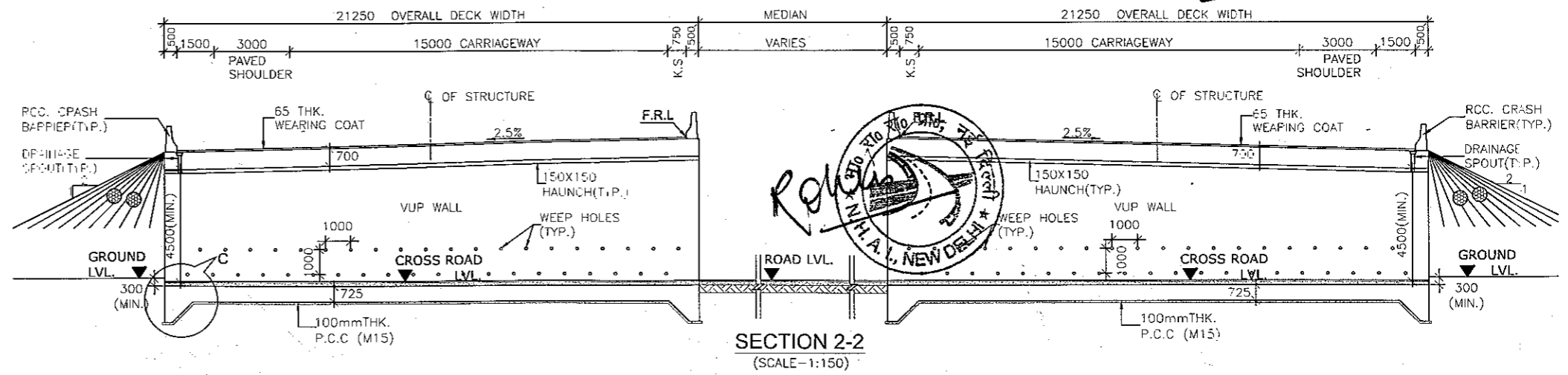
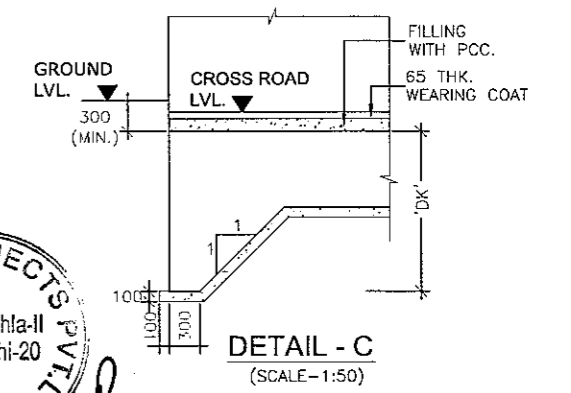
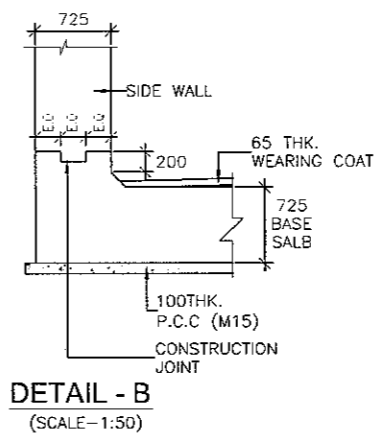
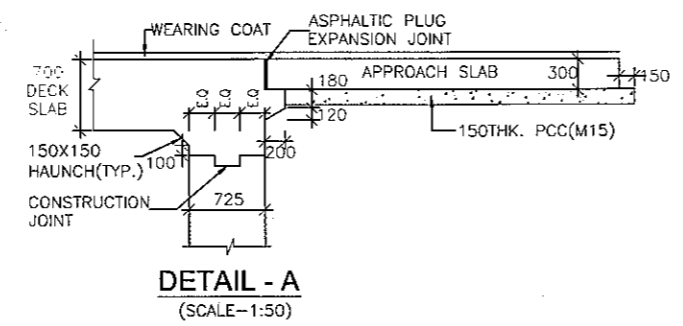


NOTES:-

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- PROPERTIES OF SELECTED BACK FILL BEHIND RETAINING WALL SHALL BE AS FOLLOWS:-
C=0, $\phi > 30^\circ$ = 2.0 t/m³.
- EXPANSION GAP (20mm) WILL BE FILLED UP BY ASPHALTIC PLUG EXPANSION JOINT.
- GRADE OF CONCRETE IN VARIOUS ELEMENTS SHALL BE AS FOLLOWS:-
PCC CURTAIN WALL : M15
APPROACH SLAB : M30
RCC BOX : M30
RETAINING WALL : M30
RCC RAILING : M30
CRASH BARRIER : M40
- NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-
BOX : 10 t/m²
RETAINING WALL : 15 t/m²
- WEEP HOLES SHALL BE PROVIDED @ 1000 MM C/C STAGGERED. BOTH HORIZONTALLY AND VERTICALLY IN RETAINING WALL FROM GROUND LEVEL TO HIGH FLOOD LEVEL.
- BACKFILLING BEHIND BOX SHALL BE CARRIED OUT SIMULTANEOUSLY.
- GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.2008
- 65MM THICK WEARING COAT SHALL CONSISTS OF LAYER OF BITUMINOUS COURSE.
OF MASTIC ASPHALT OF 25mm THK. OVER 40MM BITUMINOUS COURSE.
- 'DK' IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS VALUE OF 'DK'
UPTO 900mm : 1200mm.
GREATER THAN 900mm : d+300mm
d = BASE SLAB THICKNESS
- 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
- FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
- THIS STRUCTURE LIES IN SEISMIC ZONE V.
- F.R.L. IS TAKEN AT MEDIAN EDGE.



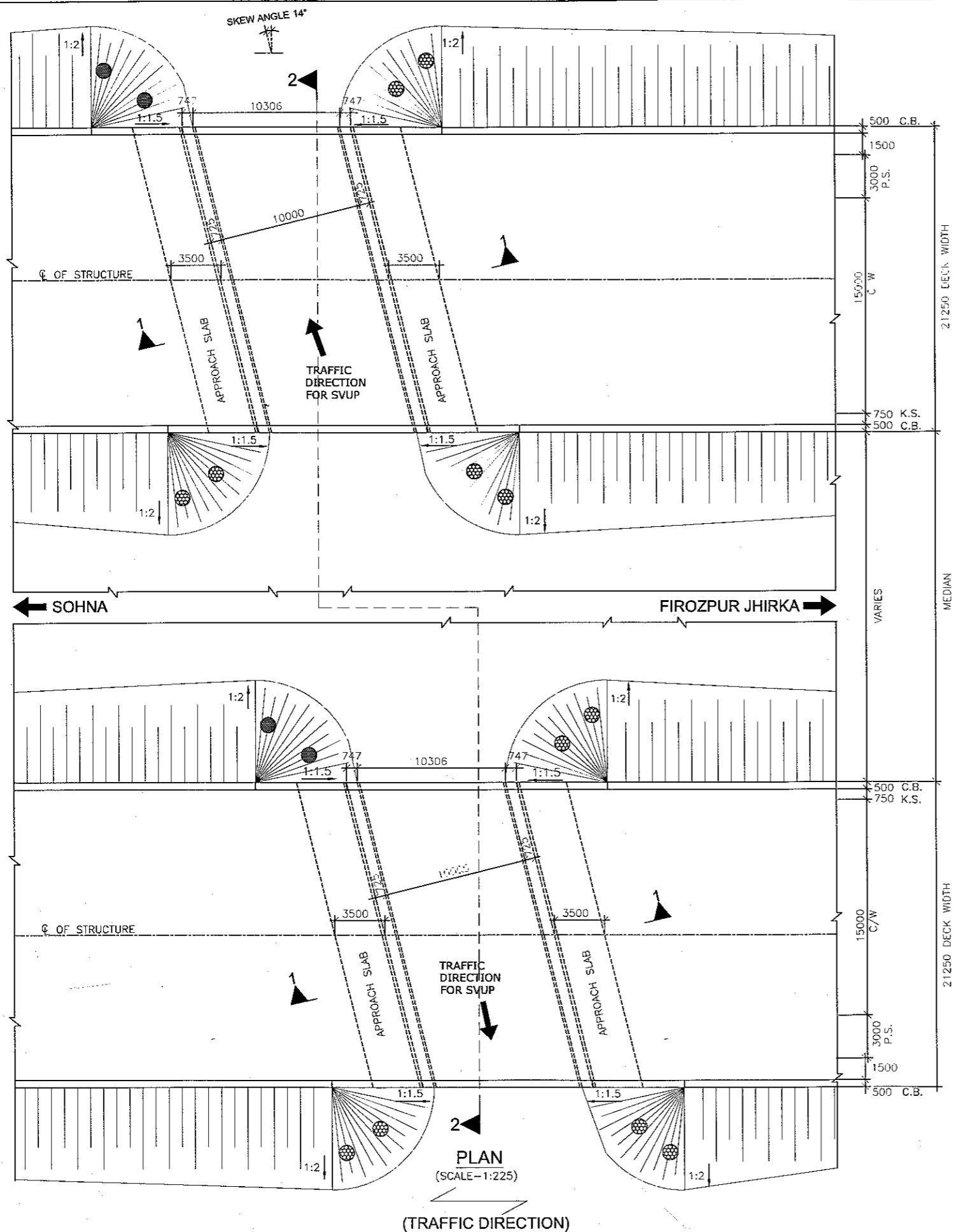
PLAN
(SCALE-1:300)
(TRAFFIC DIRECTION)



CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka.	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING SVUP(SIZE 1X10.0X4.5m) AT CH.- 70+967 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-70+967/S-100
					DATE : AUGUST 2018 PREPARED BY KULDEEP SINGH CHECKED BY MOHD. SALIK APPROVED BY NEERAJ

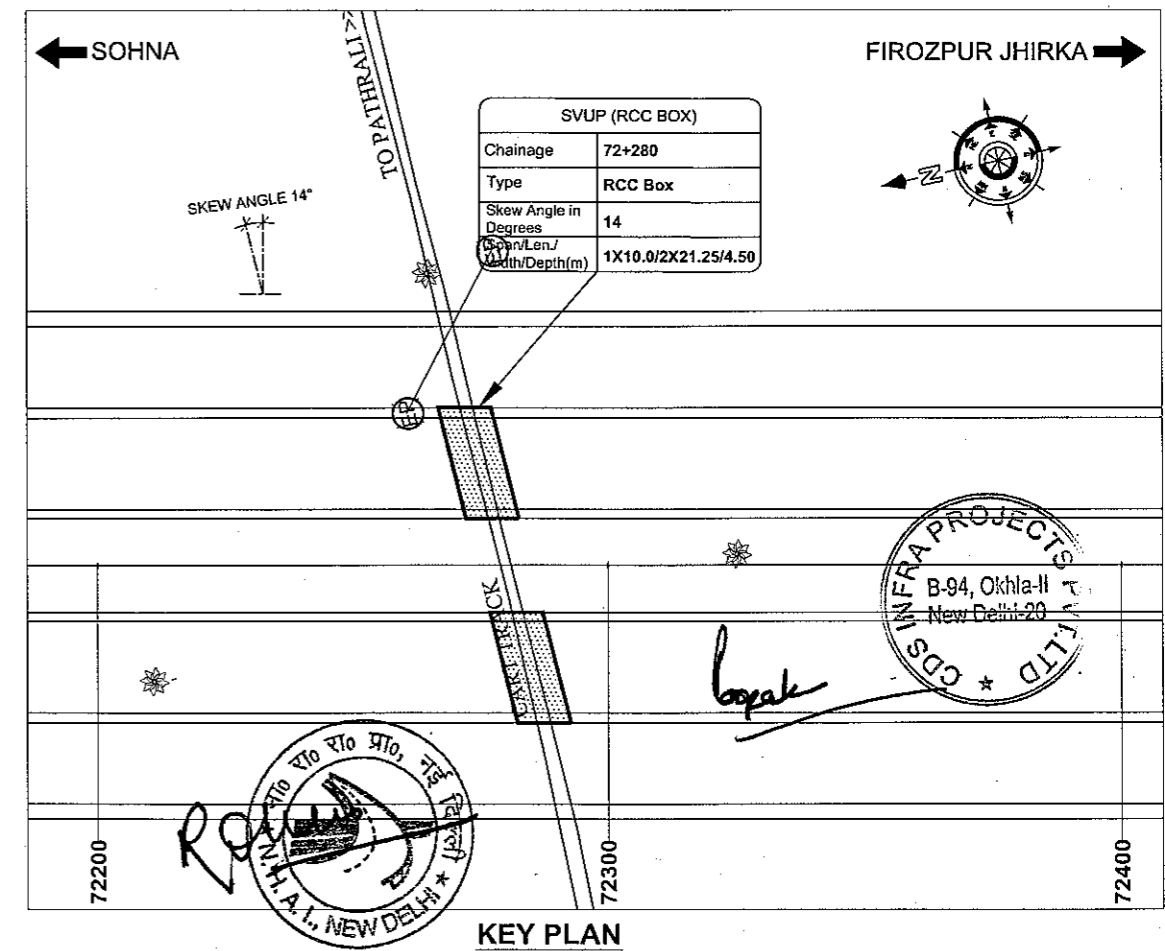
SVUP (1x10.0x4.5m.)
@ CH.72+280

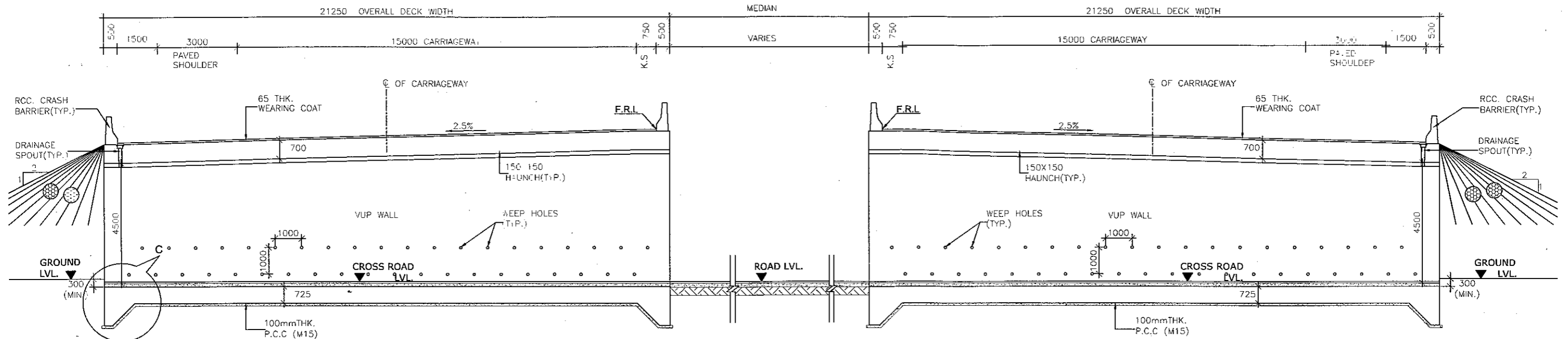




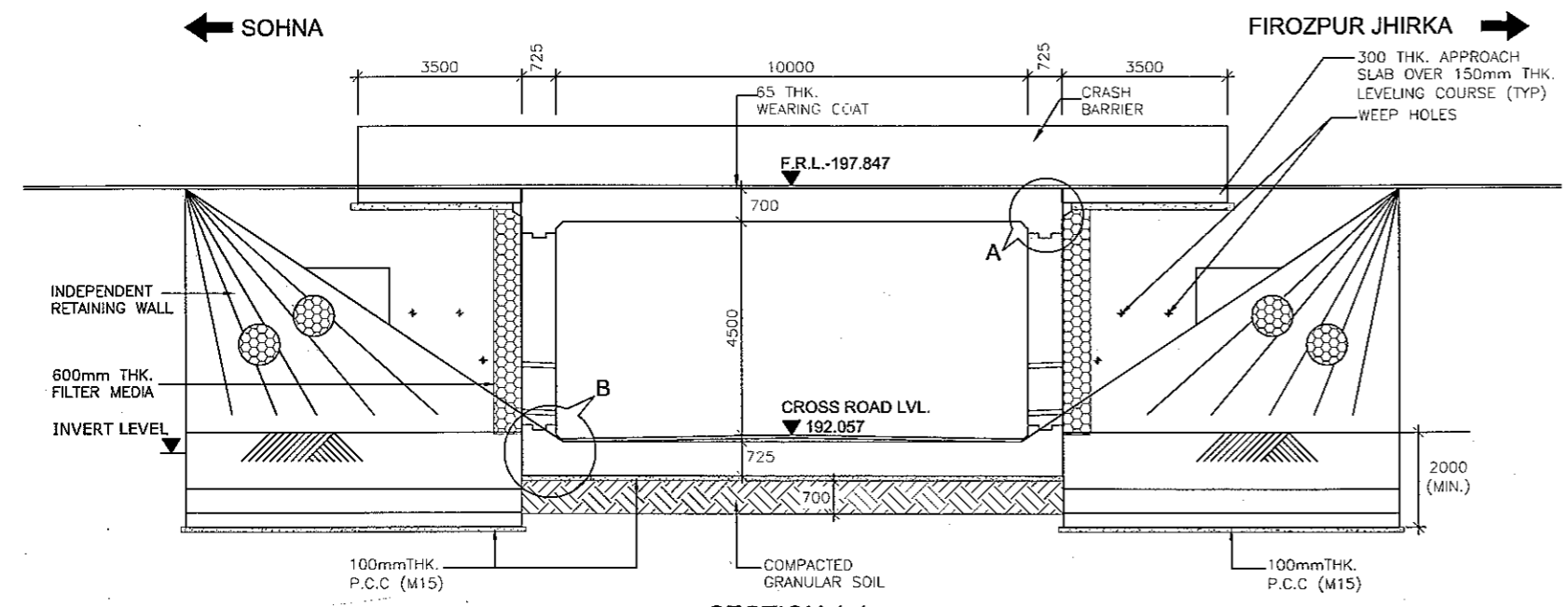
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FOR BASE SLAB THICKNESS VALUE OF 'DK'
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- 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
- FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
- THIS STRUCTURE LIES IN SEISMIC ZONE V.
- FRL IS TAKEN AT MEDIAN EDGE.

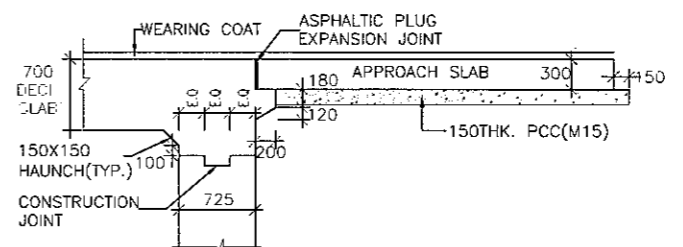




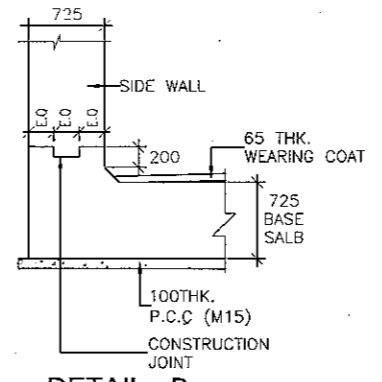
SECTION 2-2
(SCALE-1:150)



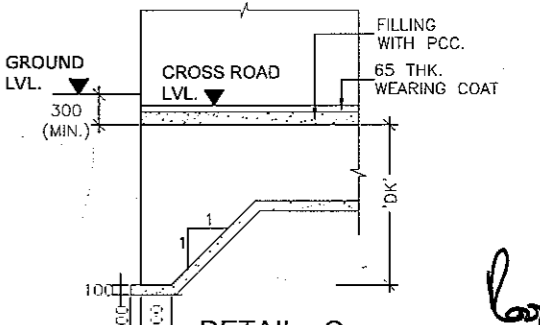
SECTION 1-1
(SCALE-1:100)



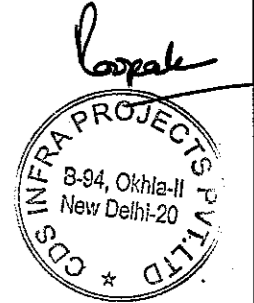
DETAIL - A
(SCALE-1:50)



DETAIL - B
(SCALE-1:50)

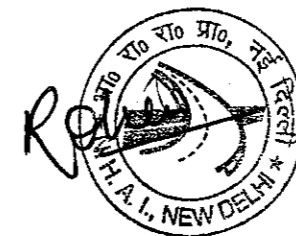


DETAIL - C
(SCALE-1:50)



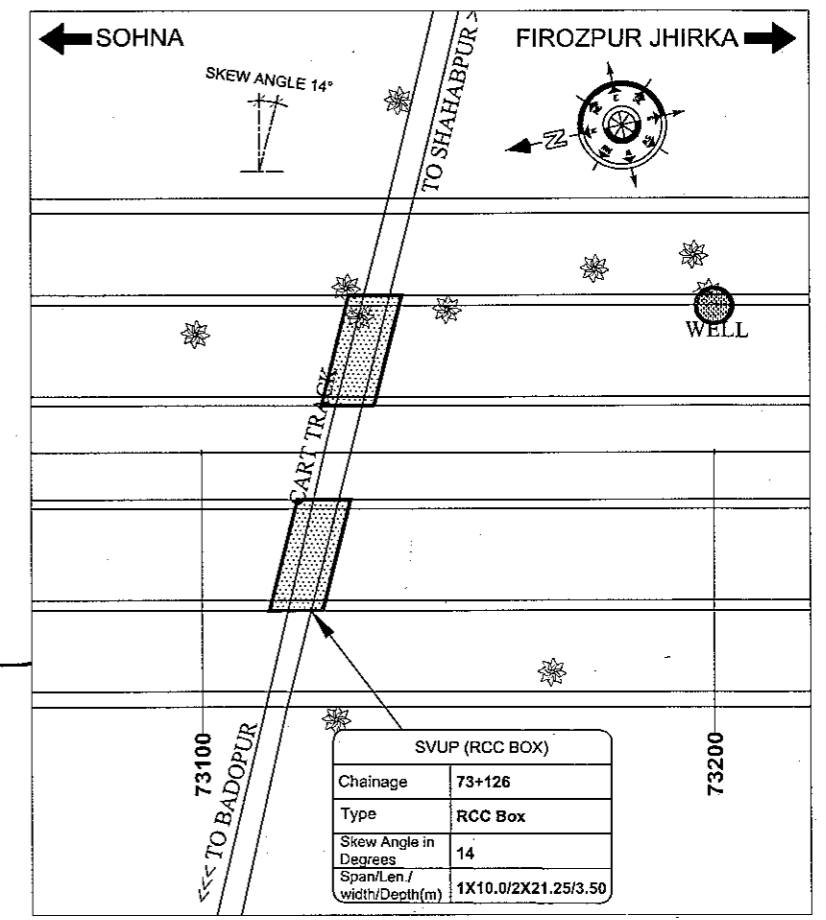
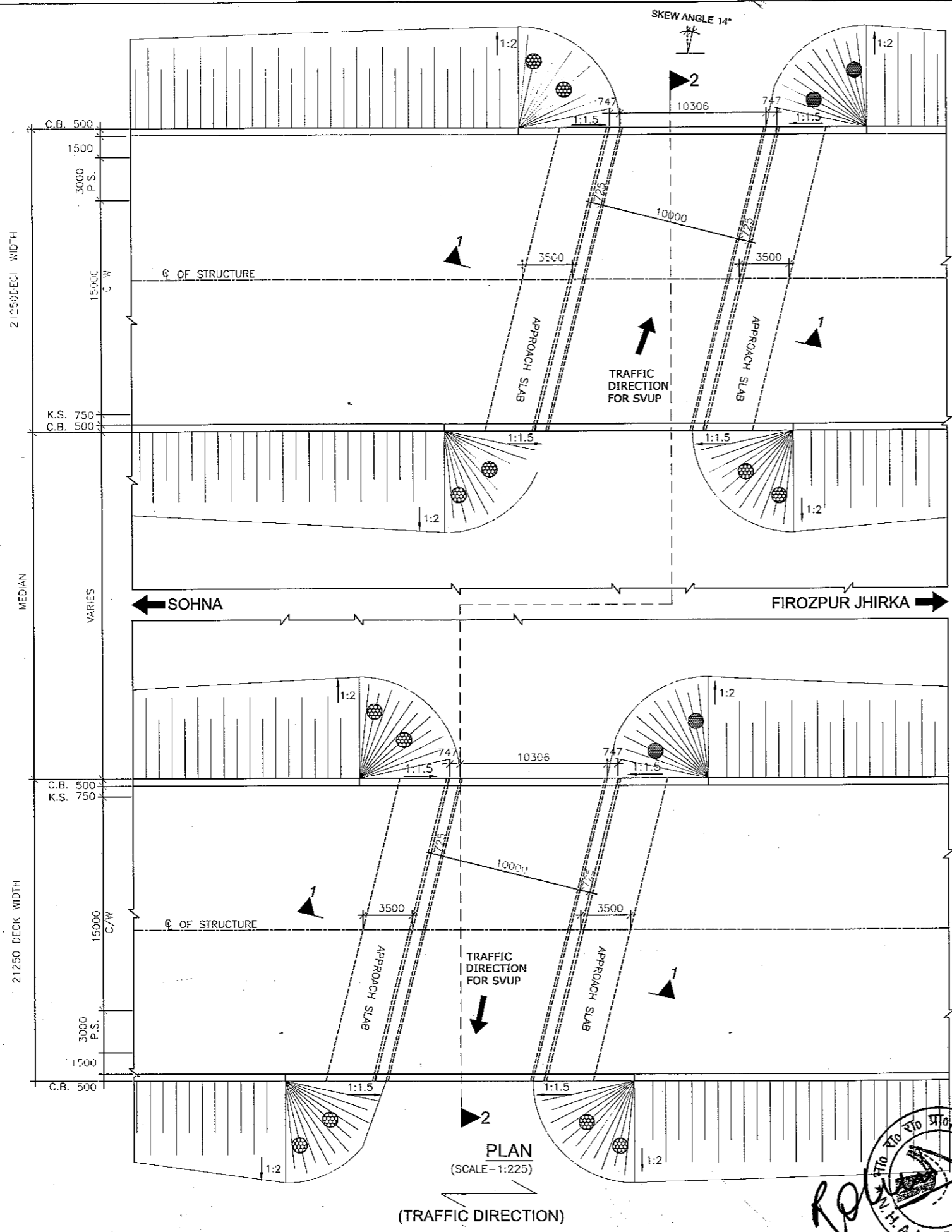
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					DATE : AUGUST 2018	Revision: R0	APPROVED BY NEERAJ
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ					

SVUP (1x10.0x3.5m.)
@ CH.73+126



NOTES:-

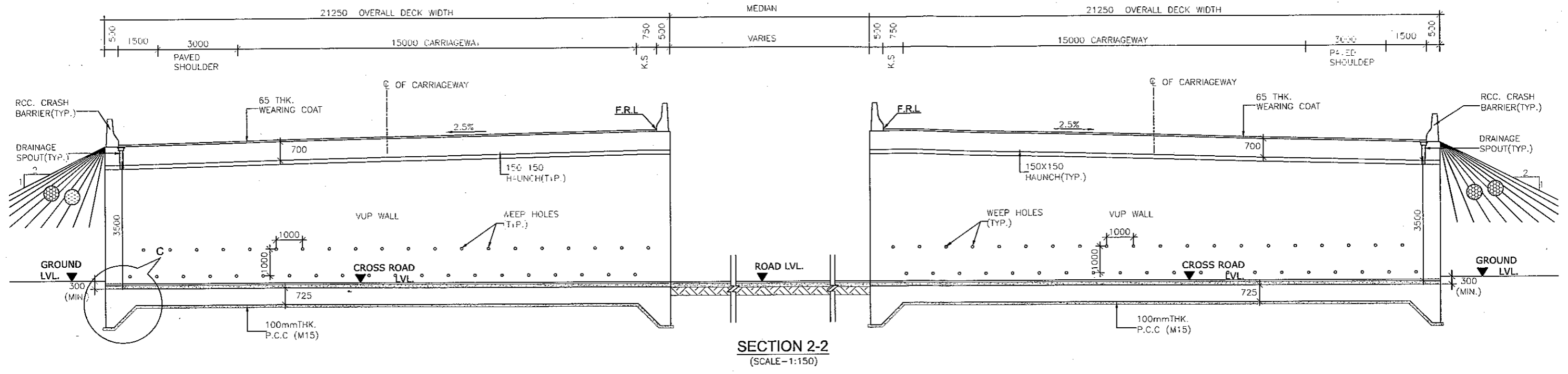
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4. EXPANSION GAP (20mm) WILL BE FILLED UP BY ASPHALTIC PLUG EXPANSION JOINT.
5. GRADE OF CONCRETE IN VARIOUS ELEMENTS SHALL BE AS FOLLOWS:-
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APPROACH SLAB : M30
RCC BOX : M30
RETAINING WALL : M30
RCC RAILING : M30
CRASH BARRIER : M40
6. NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-
BOX : 10 t/m²
RETAINING WALL : 15 t/m²
7. WEEP HOLES SHALL BE PROVIDED @ 1000 MM C/C STAGGERED. BOTH HORIZONTALLY AND VERTICALLY IN RETAINING WALL FROM GROUND LEVEL TO HIGH FLOOD LEVEL.
8. BACKFILLING BEHIND BOX SHALL BE CARRIED OUT SIMULTANEOUSLY.
9. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.2008
10. 65MM THICK WEARING COAT SHALL CONSISTS OF LAYER OF MASTIC ASPHALT OF 25mm THK. OVER 40MM BITUMINOUS COURSE.
11. 'DK' IS DEPTH OF KEY AT BASE SLAB.
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UPTO 900mm 1200mm.
GREATER THAN 900mm d+300mm
d = BASE SLAB THICKNESS
12. 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
13. FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
14. THIS STRUCTURE LIES IN SEISMIC ZONE V.
15. FRL IS TAKEN AT MEDIAN EDGE.



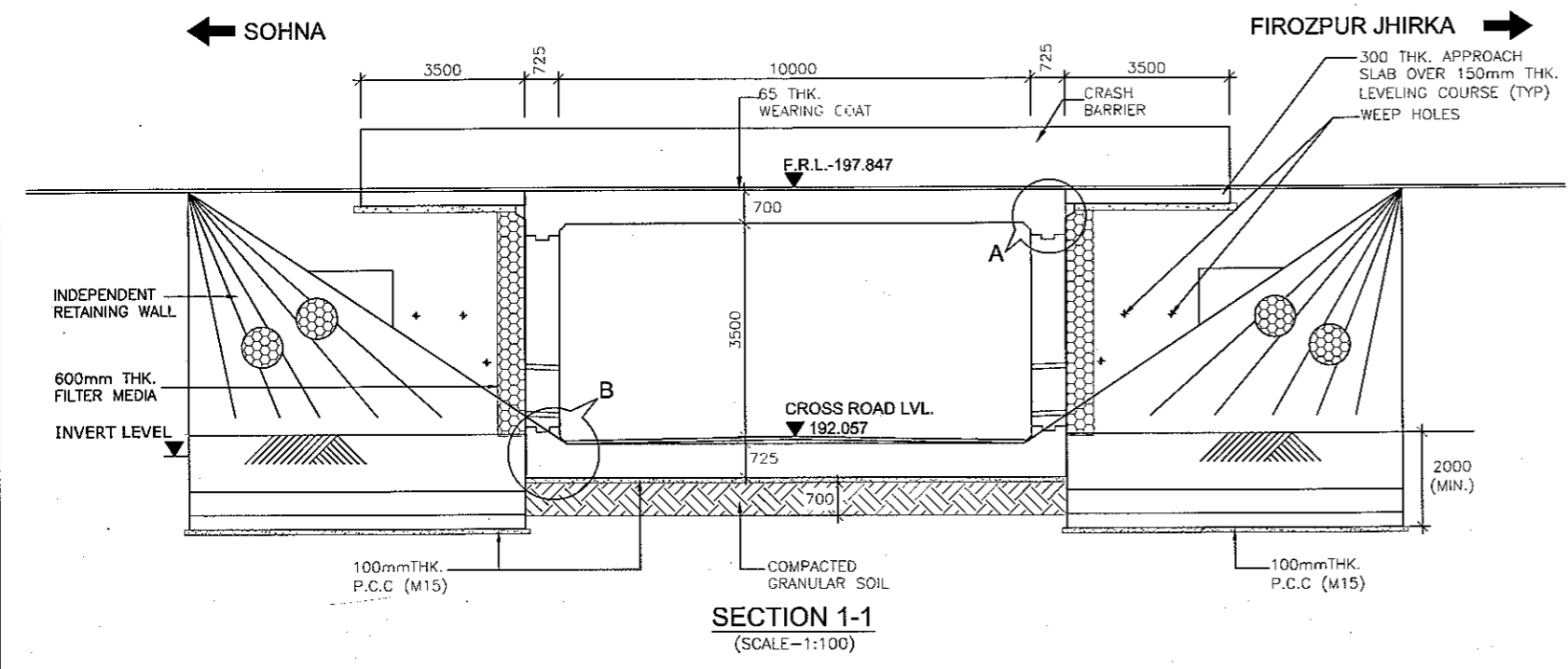
KEY PLAN



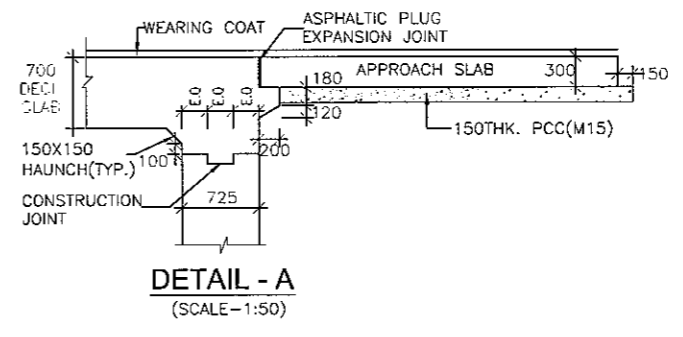
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					DATE : AUGUST 2018	Revision: R0	APPROVED BY NEERAJ
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ					



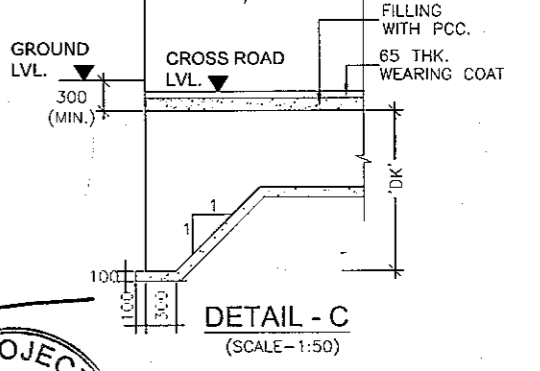
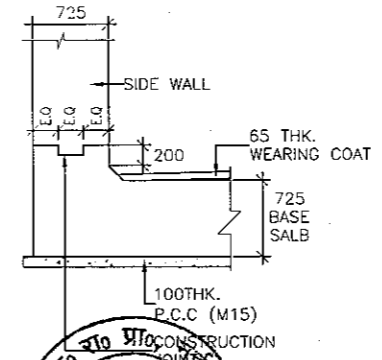
SECTION 2-2
(SCALE-1:150)



SECTION 1-1
(SCALE-1:100)



DETAIL - A
(SCALE-1:50)



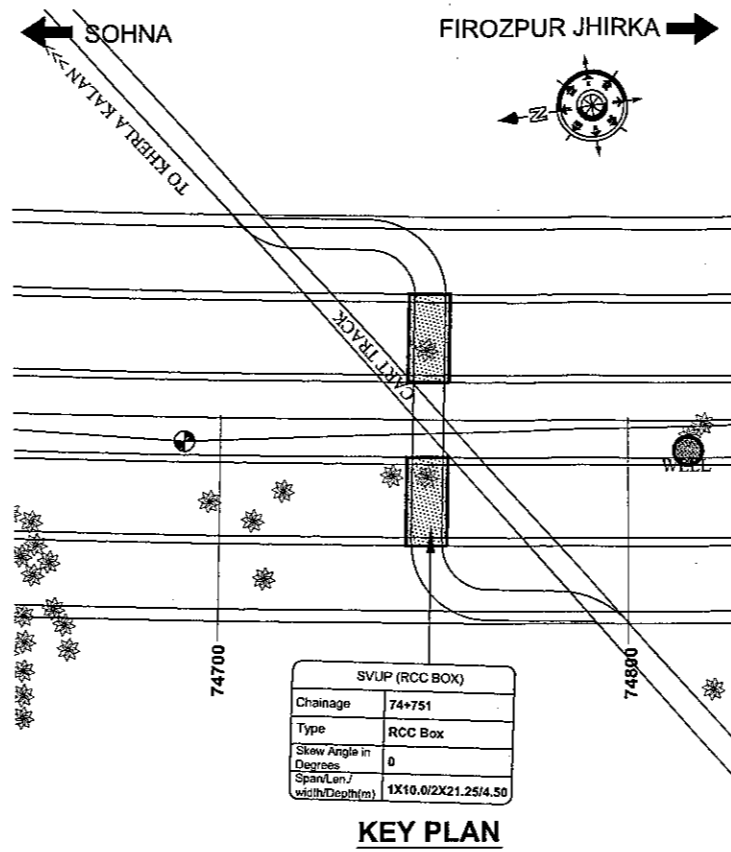
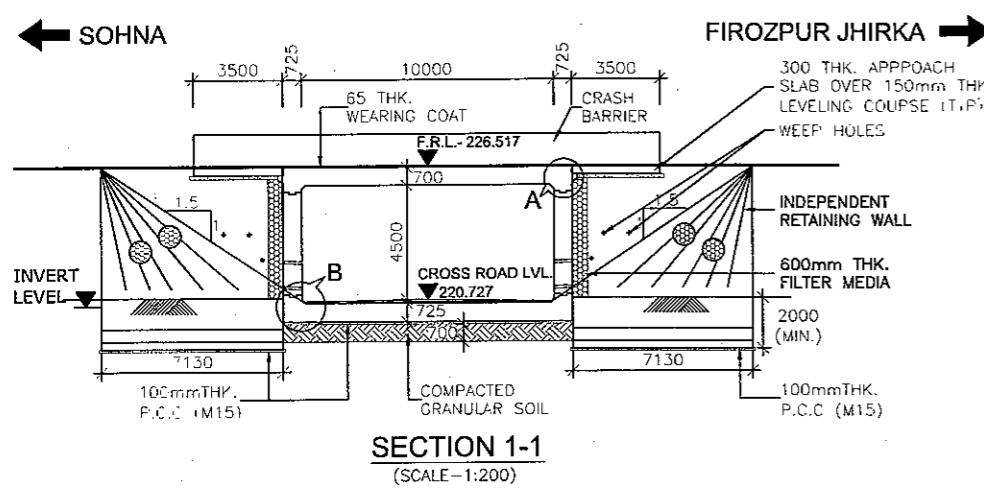
DETAIL - C
(SCALE-1:50)



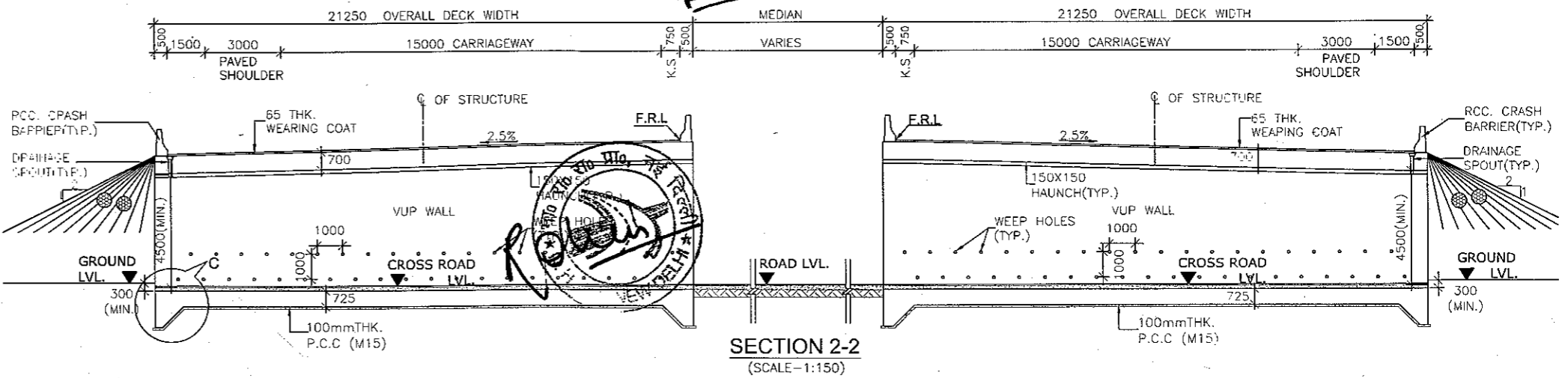
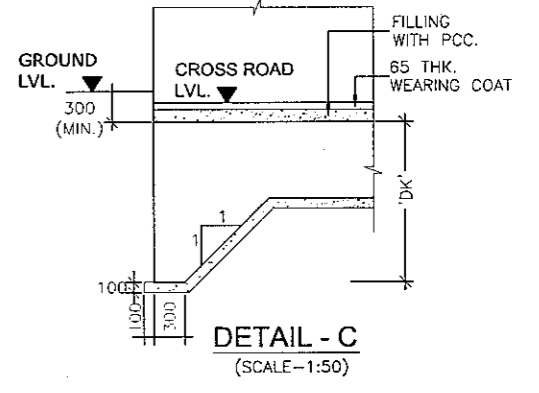
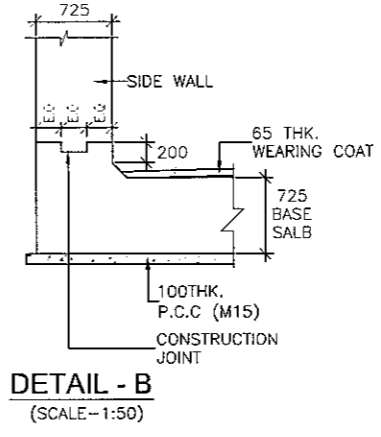
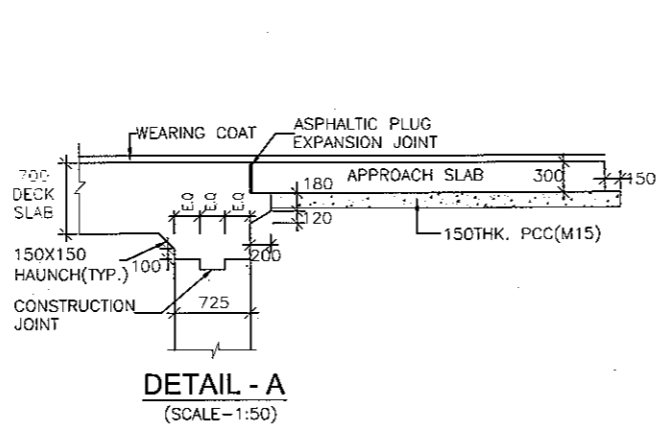
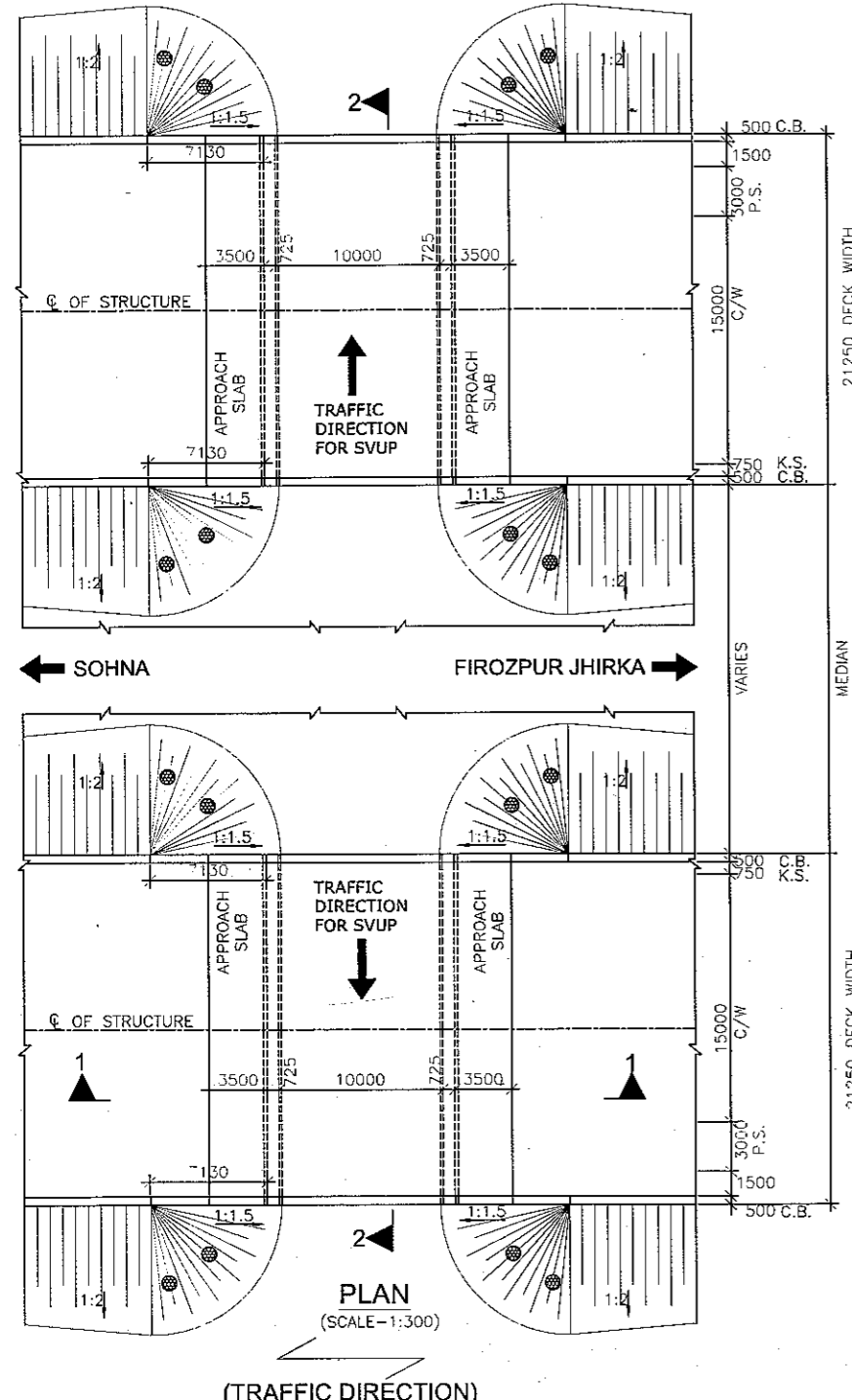
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					DATE : AUGUST 2018
		PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ	

SVUP (1x10.0x4.5m.)
@ CH.74+751



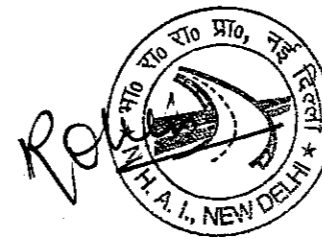


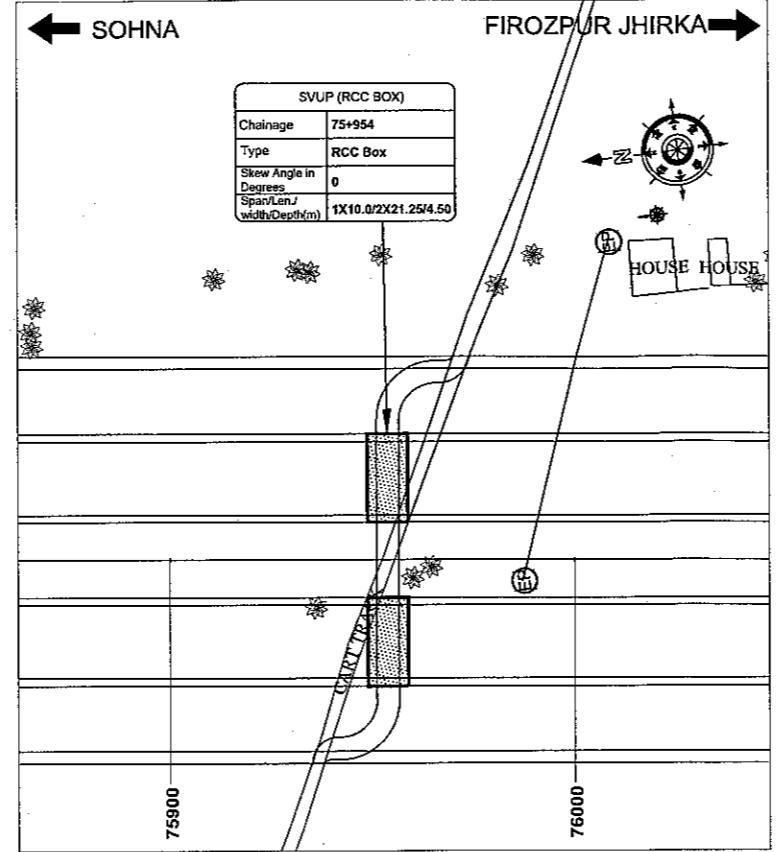
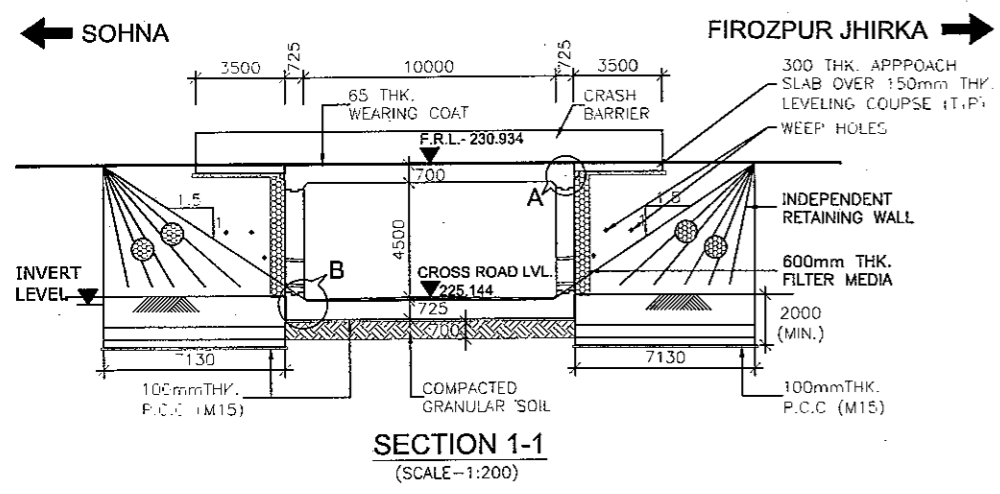
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					DATE : AUGUST 2018
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ			

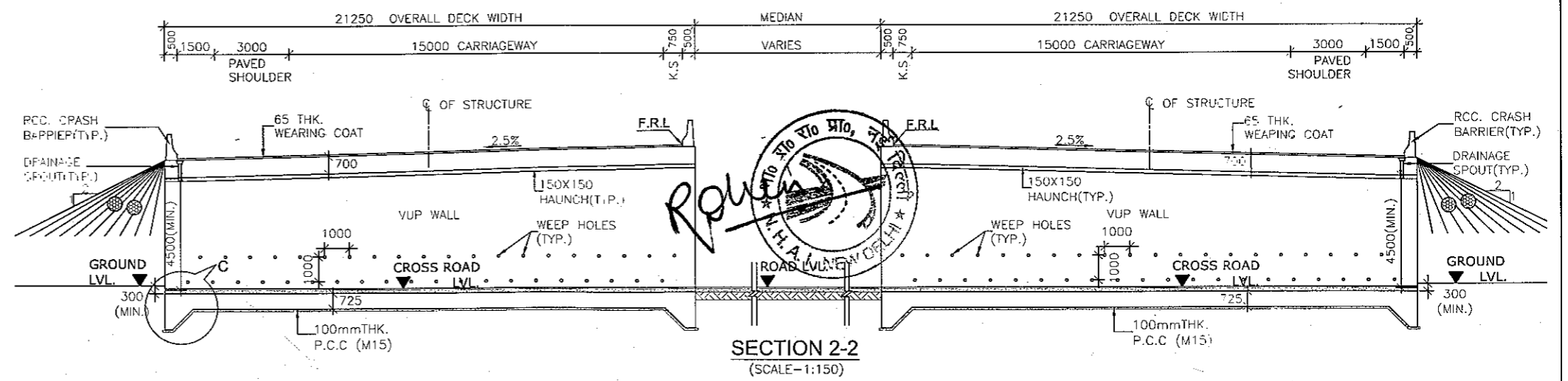
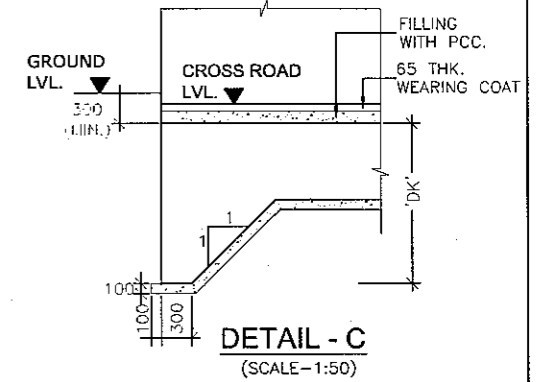
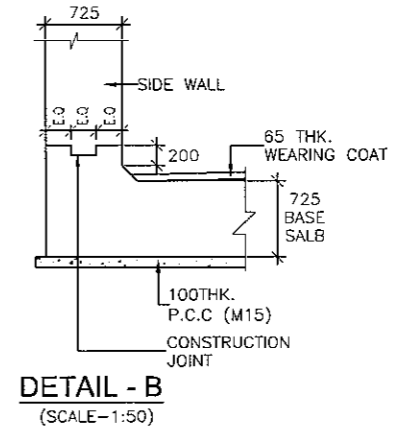
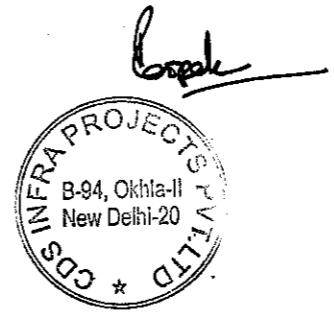
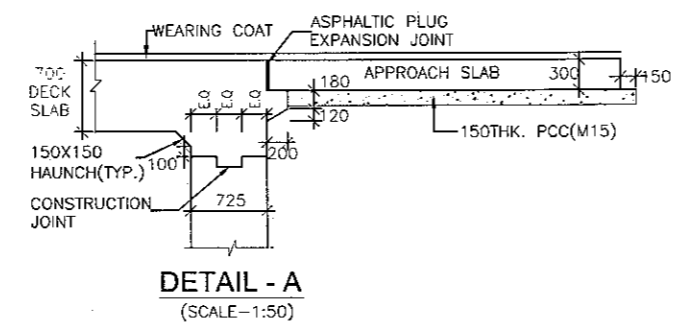
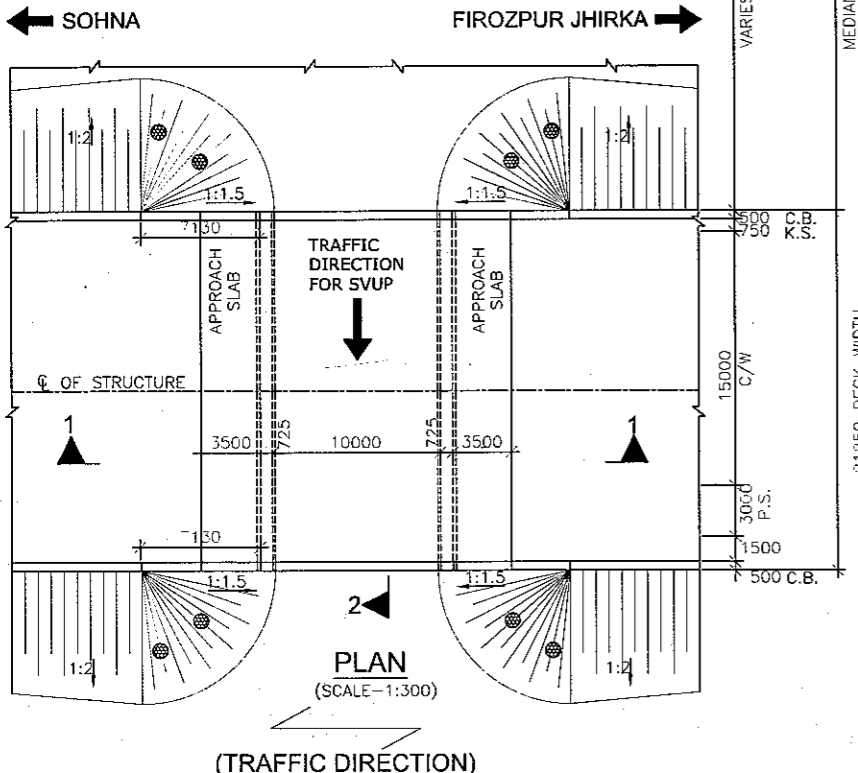
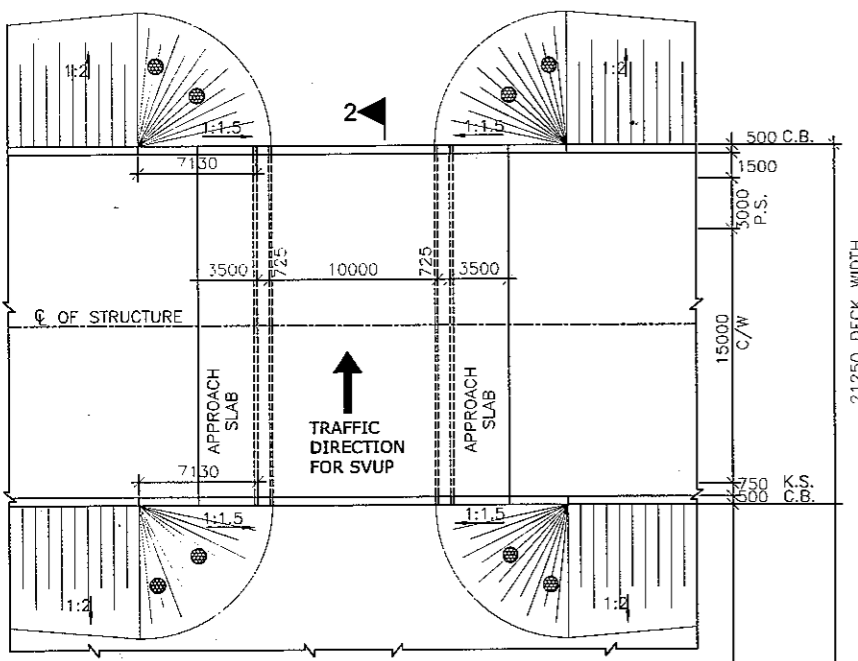
SVUP (1x10.0x4.5m.)
@ CH.75+954





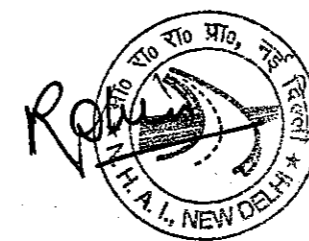
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- 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
- FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
- THIS STRUCTURE LIES IN SEISMIC ZONE V.
- F.R.L. IS TAKEN AT MEDIAN EDGE.

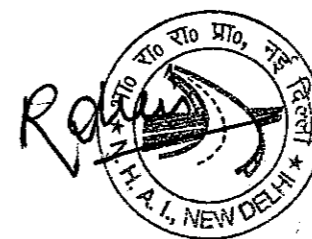


CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING SVUP (SIZE 1X10.0X4.5m) AT CH.- 75+954 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-75+954/S-100
					DATE : AUGUST 2018
PREPARED BY KULDEEP SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ			

SVUP (1x10.0x4.5m.)
@ CH.78+557

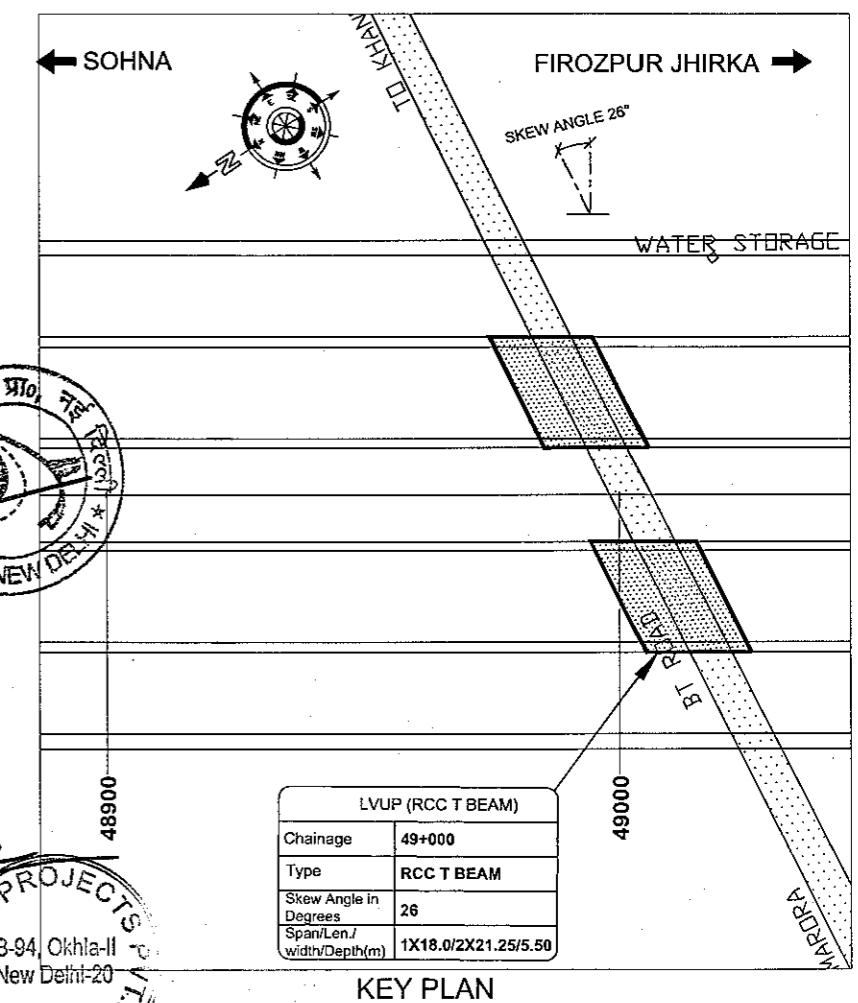
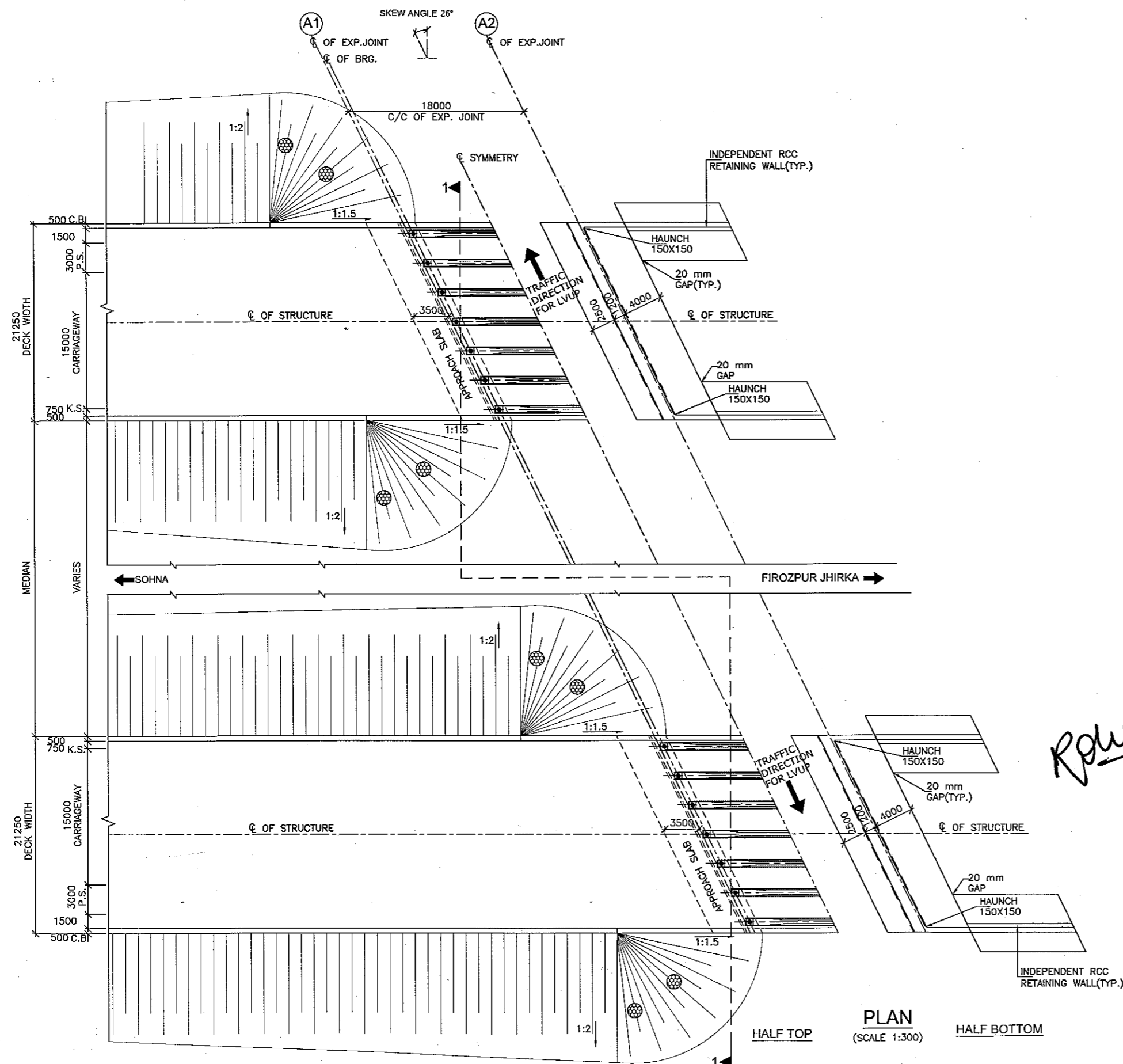


LVUP
RCC T-BEAM (SIZE 1x18.0M)
AT KM 49+000



NOTES:-

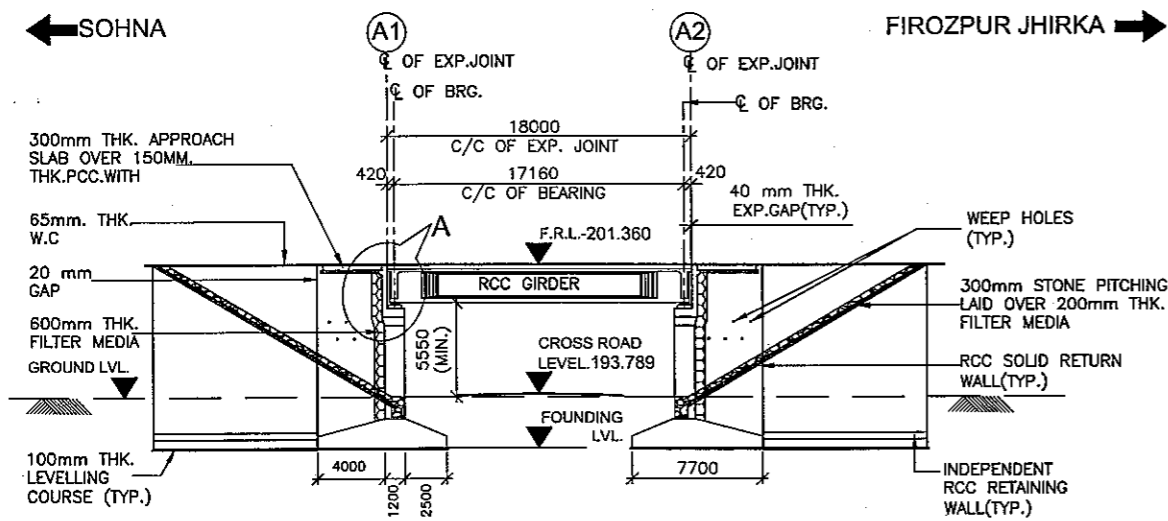
1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
2. THE PROPOSED 3 LANE BRIDGE HAS BEEN DESIGNED FOR 70R OR +1LANE,3LANE CLASS A LOADING, WHICHEVER GOVERNS.
3. CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
 PCC LEVELLING COURSE : M-15
 SUPERSTRUCTURE : M-40
 SUBSTRUCTURE : M-35
 CRASH BARRIER : M-40
 APPROACH SLAB : M-30
 RETURN/WING WALLS : M-35
4. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.
5. BACK FILLING BEHIND ABUTMENTS AND RETURN WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC:78-2014 HAVING PROPERTIES $C=0$, $\phi=30^\circ$, $\delta=20^\circ$ & $q_u = 20 \text{ KN/m}^2$
6. LAYING COMPACTION AND EXTENT OF BACKFILL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO SPECIFICATIONS IN APPENDIX : 6 OF IRC : 78-2014
7. WEEP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS AND RETURN WALL TILL 150 mm ABOVE GROUND LEVEL.
8. 65mm THK. C.C. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
9. ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.
10. CONDITION OF EXPOSURE IS MODERATE.
11. THIS STRUCTURE LIES IN SEISMIC ZONE III.



Rohit

PLAN
 (SCALE 1:300)
HALF TOP **HALF BOTTOM**

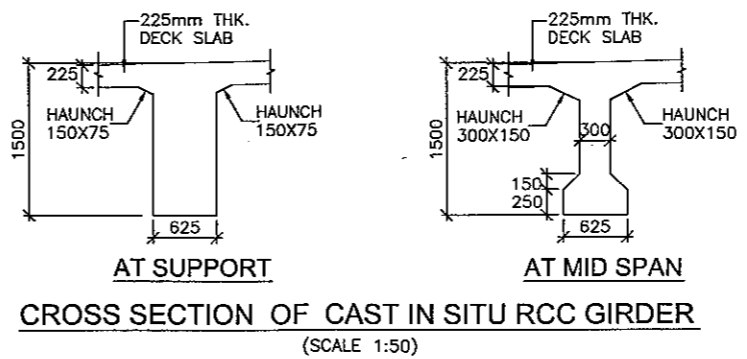
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 18.00 M C/C EXP. JOINT) AT CH:49+000 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- (SHEET 1 OF 2) CPC/P-152/CH-49+000/S-100
					DATE : AUGUST 2018 Revision: R0.
PREPARED BY RAVINDRA SINGH CHECKED BY MOHD. SALIK APPROVED BY NEERAJ					



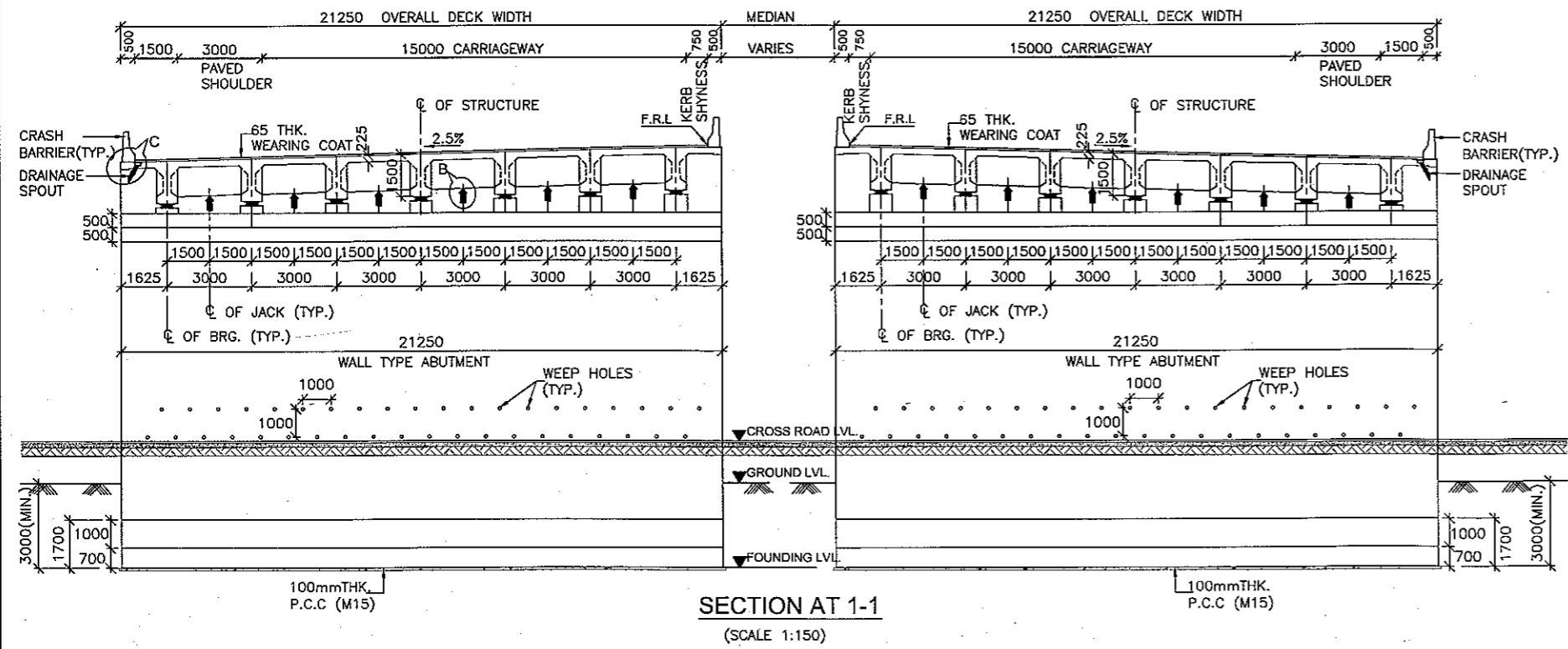
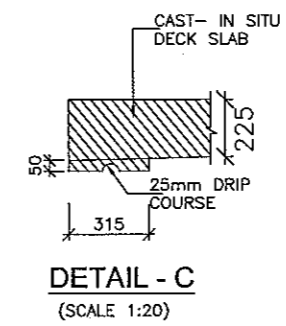
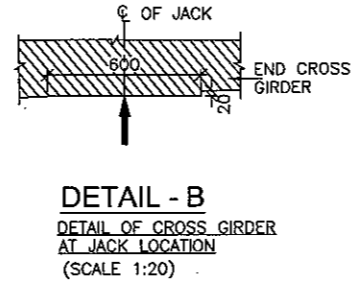
LONGITUDINAL ELEVATION
(SCALE 1:300)

FORMATION LEVEL (m)	201.360	201.360
GROUND LEVEL (m)	192.780	192.808
CHAINAGE (m)	48+991	49+009

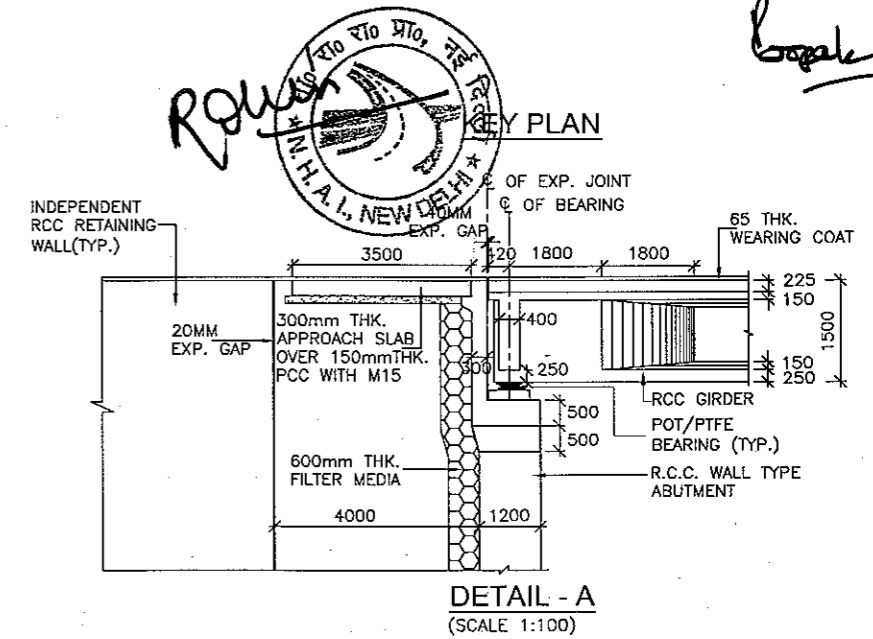
CHAINAGE AT 0.000 IS 49+000



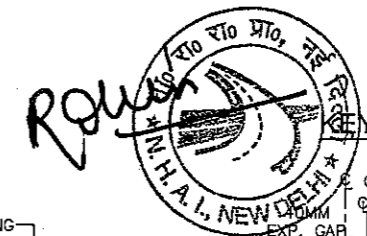
CROSS SECTION OF CAST IN SITU RCC GIRDER
(SCALE 1:50)



SECTION AT 1-1
(SCALE 1:150)

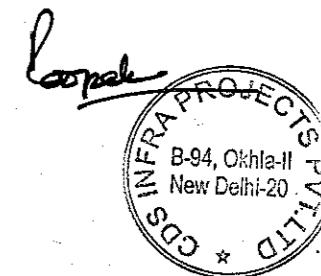
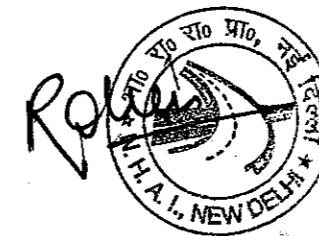


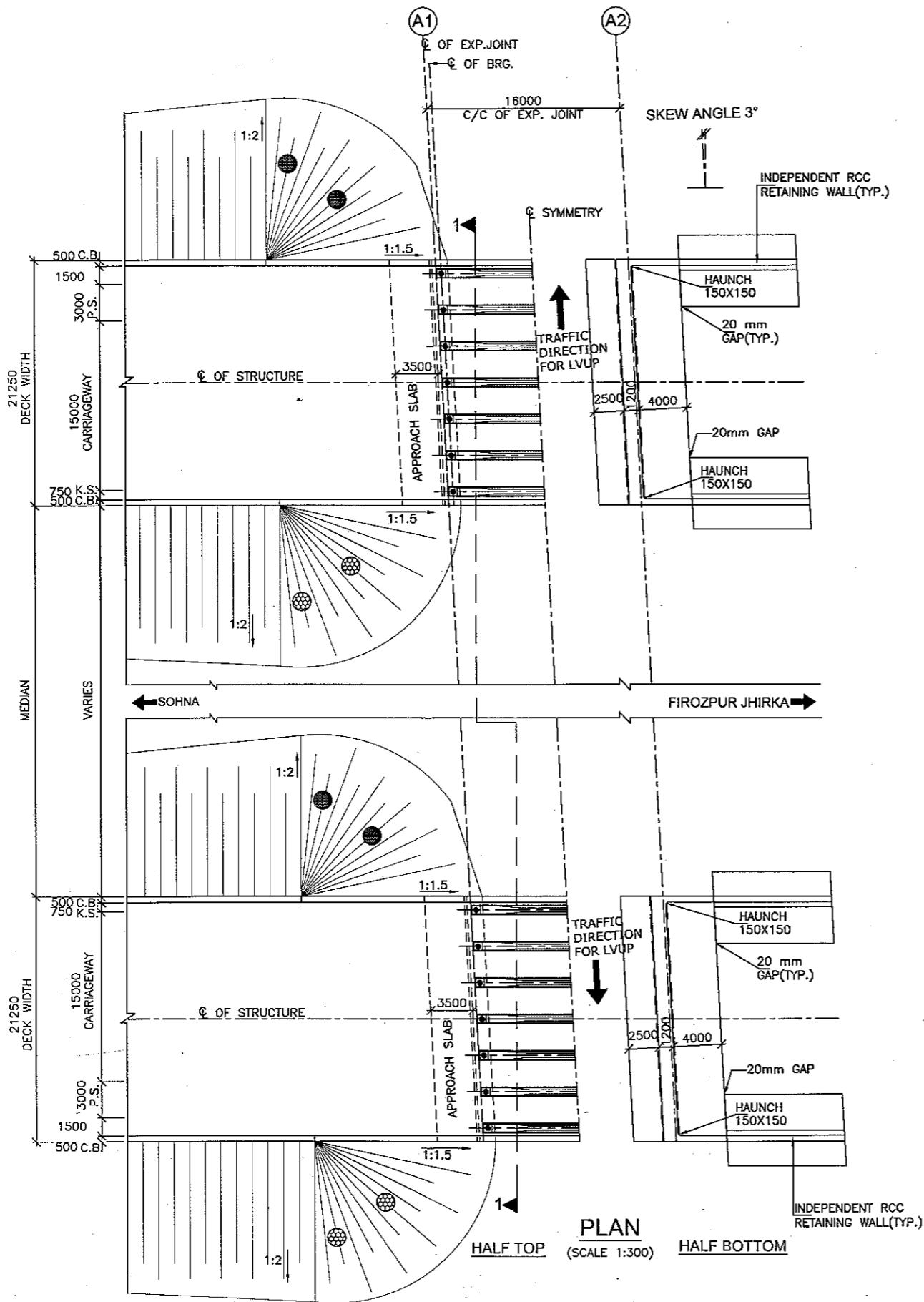
DETAIL - A
(SCALE 1:100)



CLIENT:- 	CONSULTANT:- 	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 18.00 M C/C EXP. JOINT) AT CH.-49+000 (SOHNA - FIROZPUR JHIRKA)	DRAWING No. :- (SHEET 2 OF 2) CPC/P-152/CH-49+000/S-100		
					DATE : AUGUST 2018	Revision: R0	APPROVED BY
PREPARED BY RAVINDRA SINGH		CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ				

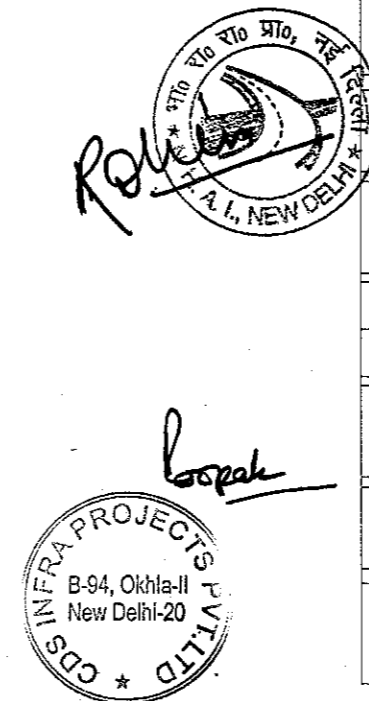
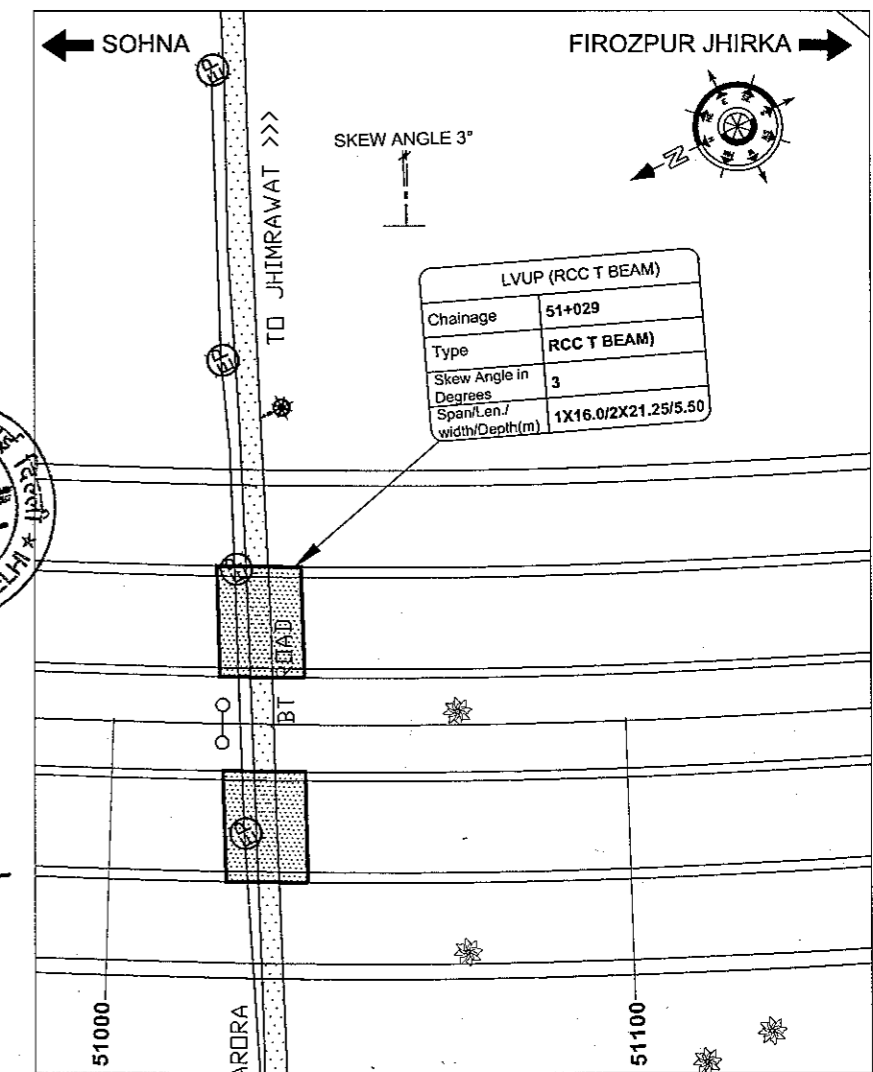
LVUP
RCC T-BEAM (SIZE 1x16.0M)
AT KM 51+029



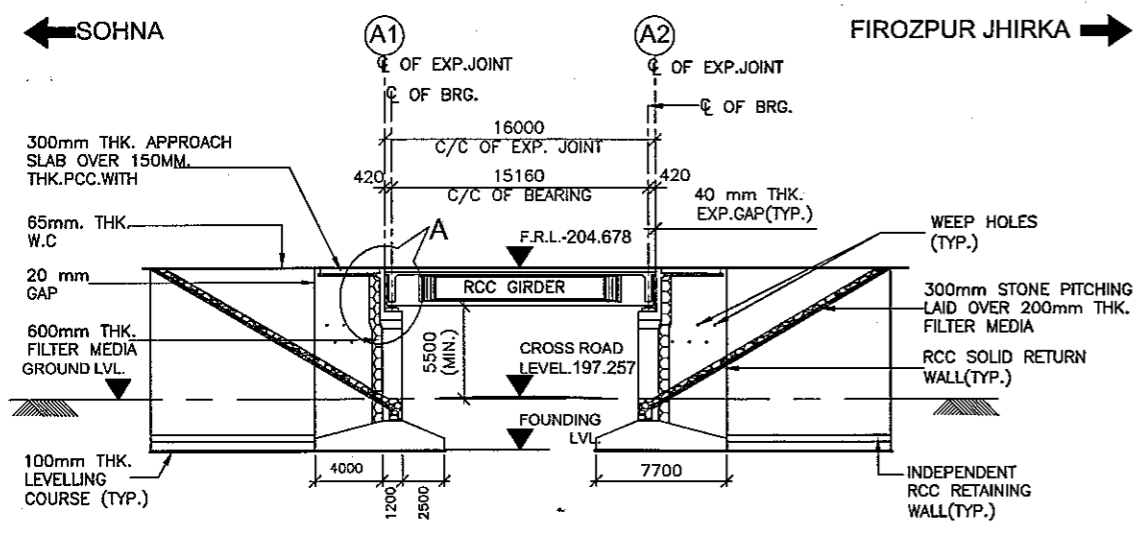


NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
2. THE PROPOSED 3 LANE BRIDGE HAS BEEN DESIGNED FOR 70R OR +1LANE,3LANE CLASS A LODING, WHICHEVER GOVERNS.
3. CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
 PCC LEVELLING COURSE : M-15
 SUPERSTRUCTURE : M-40
 SUBSTRUCTURE : M-35
 CRASH BARRIER : M-40
 APPROACH SLAB : M-30
 RETURN/WING WALLS : M-35
4. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1785.
5. BACK FILLING BEHIND ABUTMENTS AND RETURN WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC:78-2014 HAVING PROPERTIES $C=0$, $\phi=30^\circ$, $\delta=20^\circ$ & $q_u = 20 \text{ KN/m}^2$
6. LAYING COMPACTION AND EXTENT OF BACKFILL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO SPECIFICATIONS IN APPENDIX : 6 OF IRC : 78-2014
7. WEEP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS AND RETURN WALL TILL 150 mm ABOVE GROUND LEVEL.
8. 65mm THK. C.C. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
9. ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.
10. CONDITION OF EXPOUSER IS MODERATE.
11. THIS STRUCTURE LIES IN SEISMIC ZONE III.

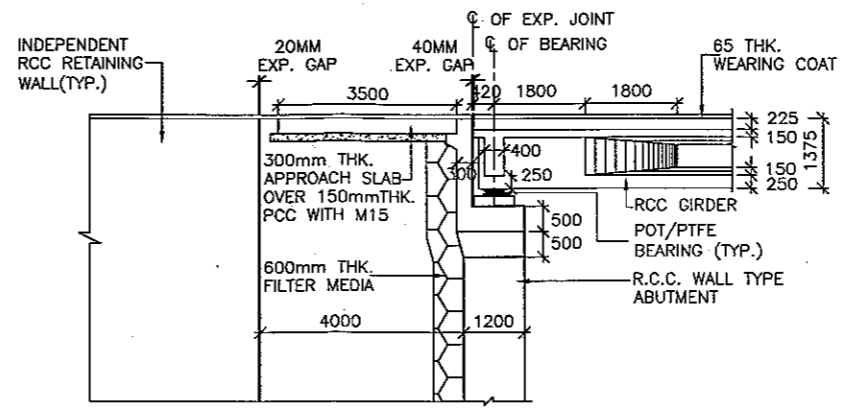


CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 16.00M C/C EXP. JOINT) AT CH.-51+029 (SOHNA - FIROZPUR JHIRKA)	DRAWING No. :- (SHEET 1 OF 2) CPC/P-152/CH-51+029/S-100
					DATE : AUGUST 2018
PREPARED BY RAVINDRA SINGH		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ	

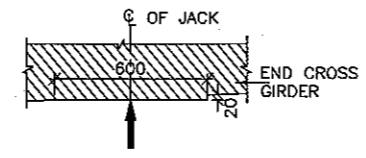


LONGITUDINAL ELEVATION
(SCALE 1:300)

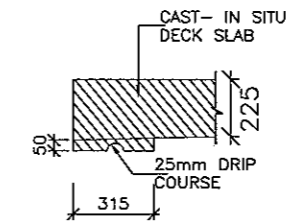
FORMATION LEVEL (m)	204.678	204.678
GROUND LEVEL (m)	196.260	196.248
CHAINAGE (m)	51+21	51+37



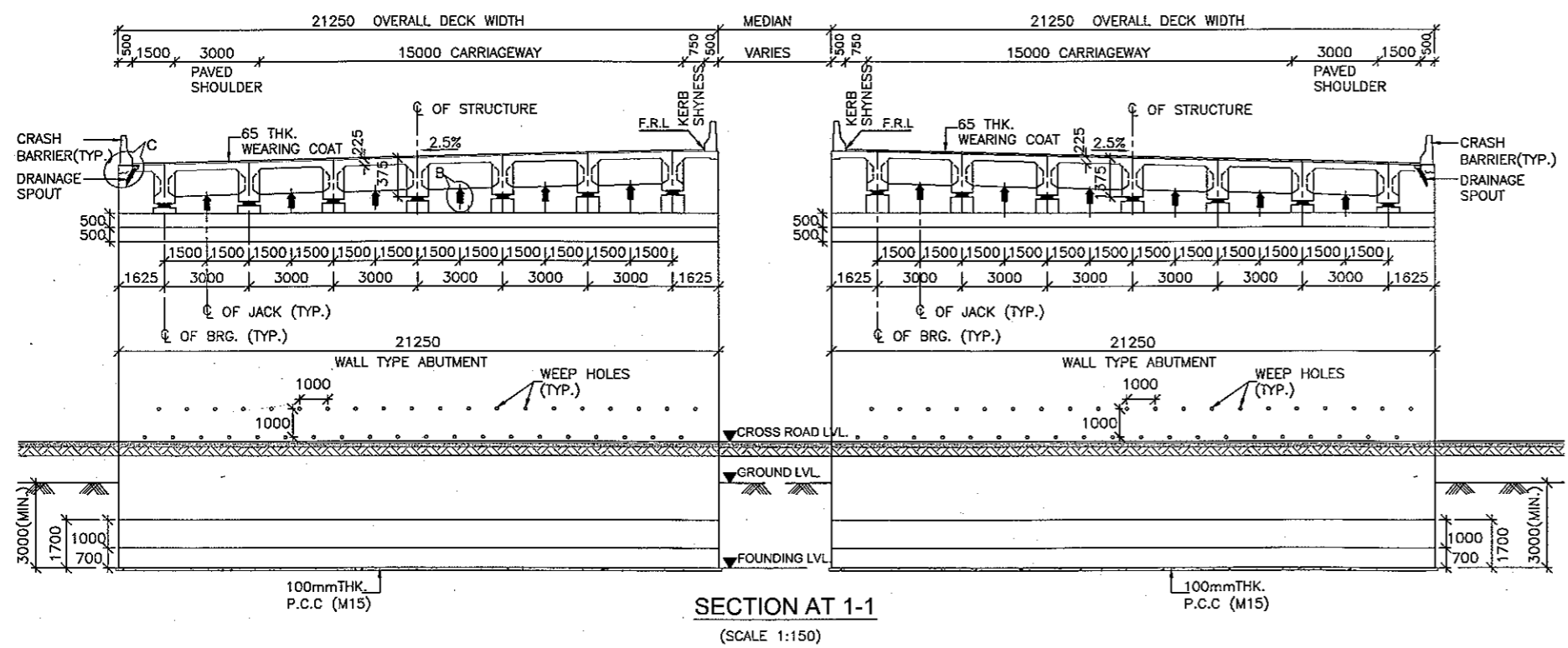
DETAIL - A
(SCALE 1:100)



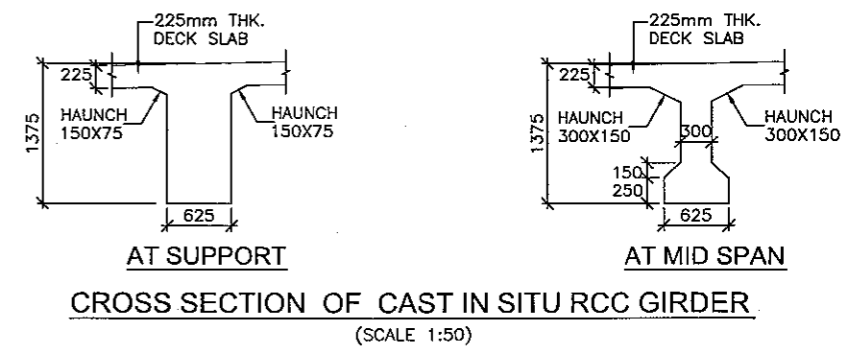
DETAIL - B
DETAIL OF CROSS GIRDER
AT JACK LOCATION
(SCALE 1:20)



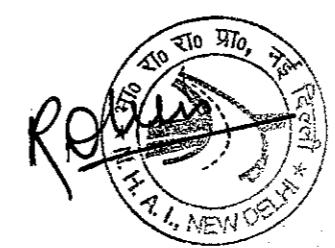
DETAIL - C
(SCALE 1:20)



SECTION AT 1-1
(SCALE 1:150)

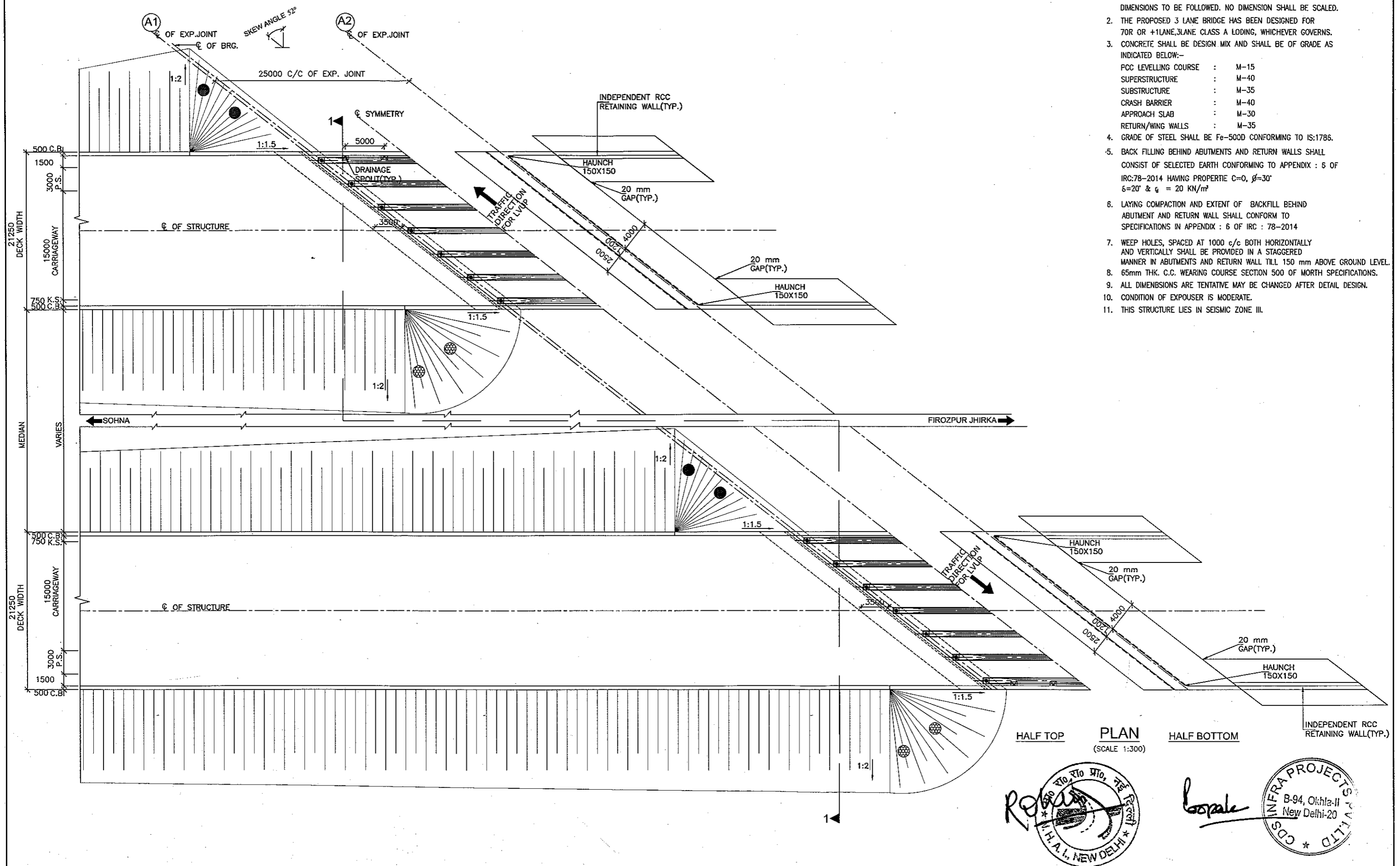


CROSS SECTION OF CAST IN SITU RCC GIRDER
(SCALE 1:50)



NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
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3. CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
 FCC LEVELLING COURSE : M-15
 SUPERSTRUCTURE : M-40
 SUBSTRUCTURE : M-35
 CRASH BARRIER : M-40
 APPROACH SLAB : M-30
 RETURN/WING WALLS : M-35
4. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.
5. BACK FILLING BEHIND ABUTMENTS AND RETURN WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC:78-2014 HAVING PROPERTIES $c=0$, $\phi=30^\circ$, $\delta=20^\circ$ & $g = 20 \text{ KN/m}^2$
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8. 65mm THK. C.C. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
9. ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.
10. CONDITION OF EXPOUSER IS MODERATE.
11. THIS STRUCTURE LIES IN SEISMIC ZONE III.



HALF TOP PLAN (SCALE 1:300) HALF BOTTOM

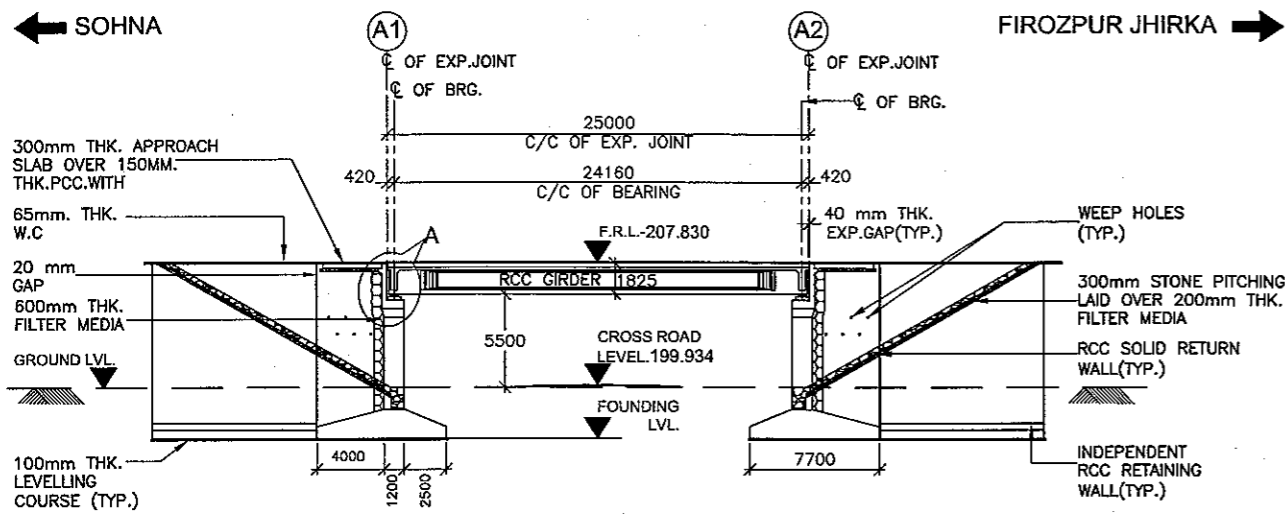
INDEPENDENT RCC RETAINING WALL(TYP.)

Roban

Boopale

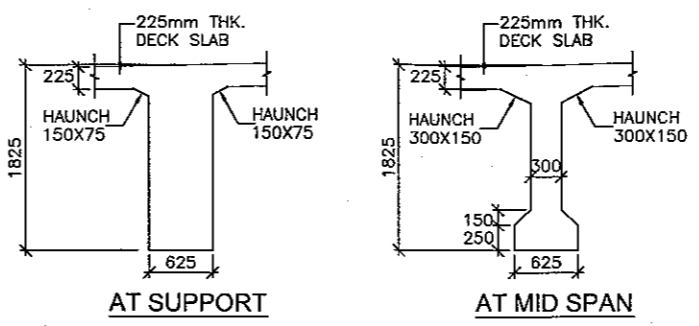
CDS INFRA PROJECTS PVT. LTD.
 B-94, Okhla-II
 New Delhi-20

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 25.00 M C/C EXP. JOINT) AT CH.-52+045 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- (SHEET 1 OF 2) CPC/P-152/CH-52+045/S-100		
					DATE : AUGUST 2018	Revision: R0	APPROVED BY
				PREPARED BY: RAVINDRA SINGH		CHECKED BY: MOHD. SALIK	APPROVED BY: NEERAJ

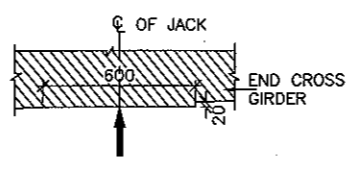


LONGITUDINAL ELEVATION
(SCALE 1:300)

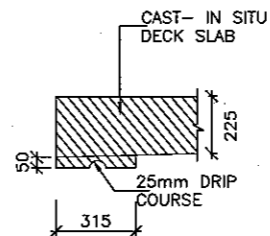
FORMATION LEVEL (m)	207.830	207.830	
GROUND LEVEL (m)	198.863	199.116	
CHAINAGE (m)	52+32.50	52+045	52+57.50



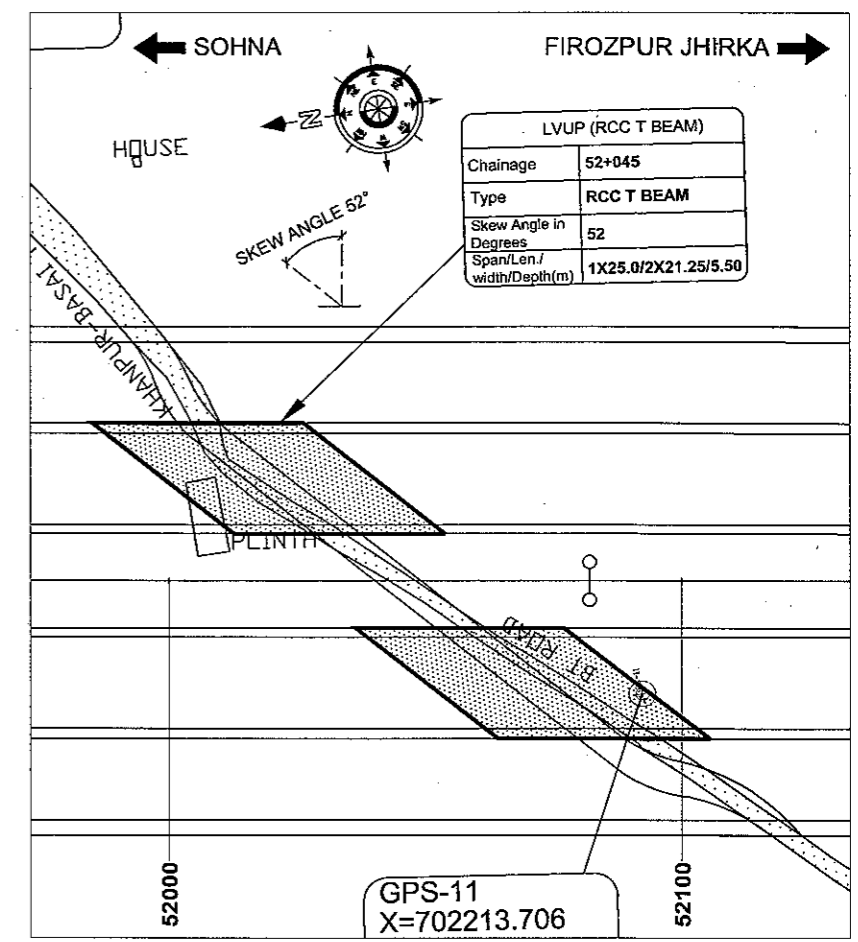
CROSS SECTION OF CAST IN SITU RCC GIRDER
(SCALE 1:50)



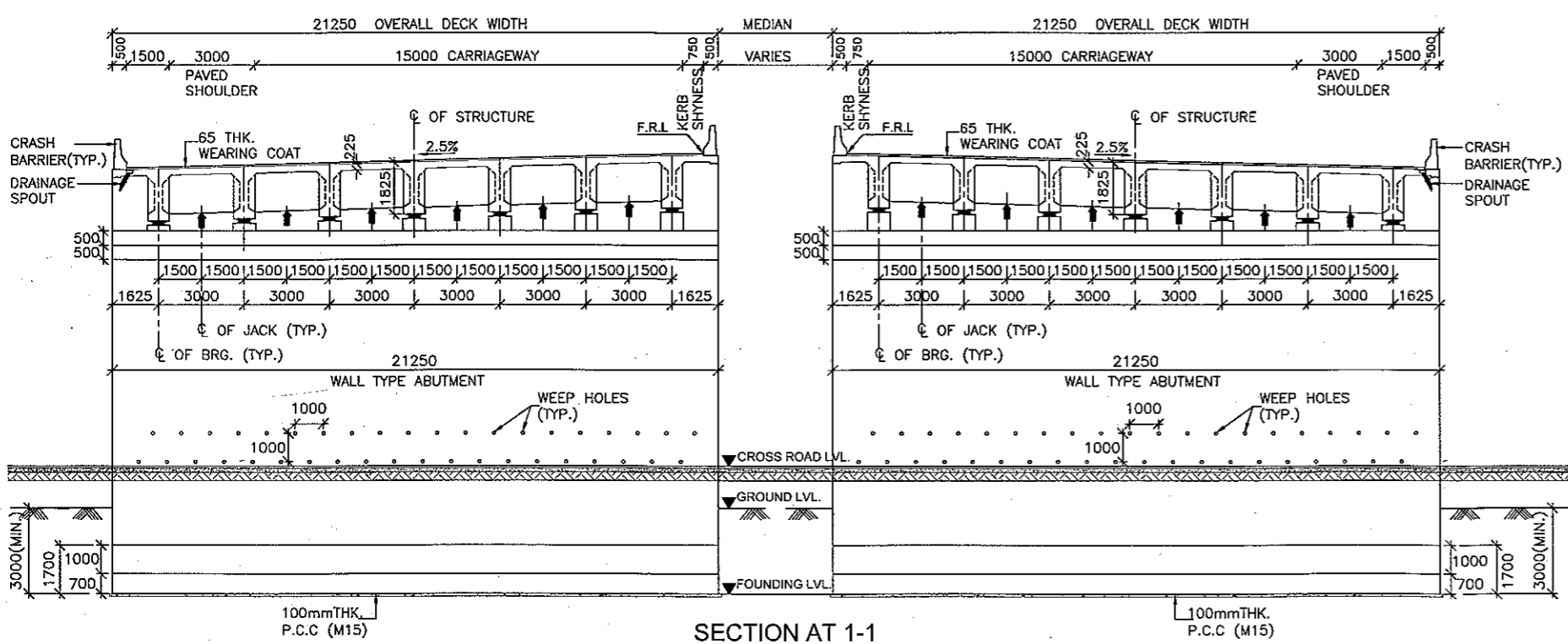
DETAIL - B
DETAIL OF CROSS GIRDER
AT JACK LOCATION
(SCALE 1:20)



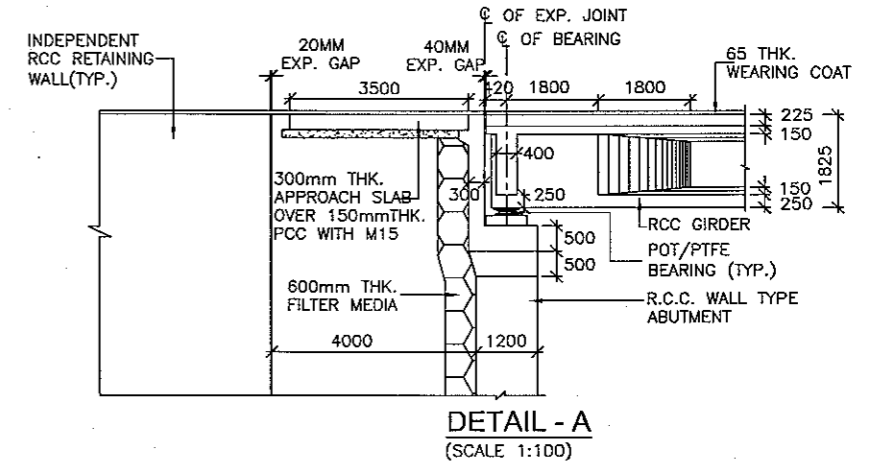
DETAIL - C
(SCALE 1:20)



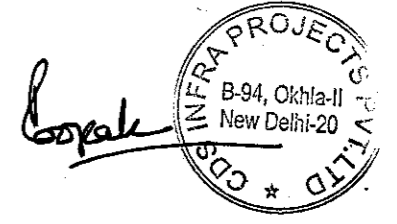
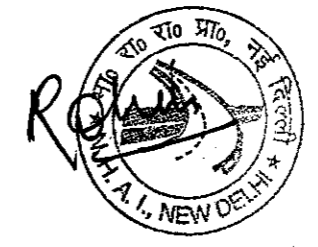
KEY PLAN
GPS-11
X=702213.706



SECTION AT 1-1
(SCALE 1:150)

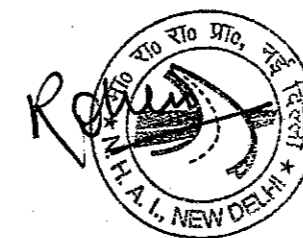


DETAIL - A
(SCALE 1:100)

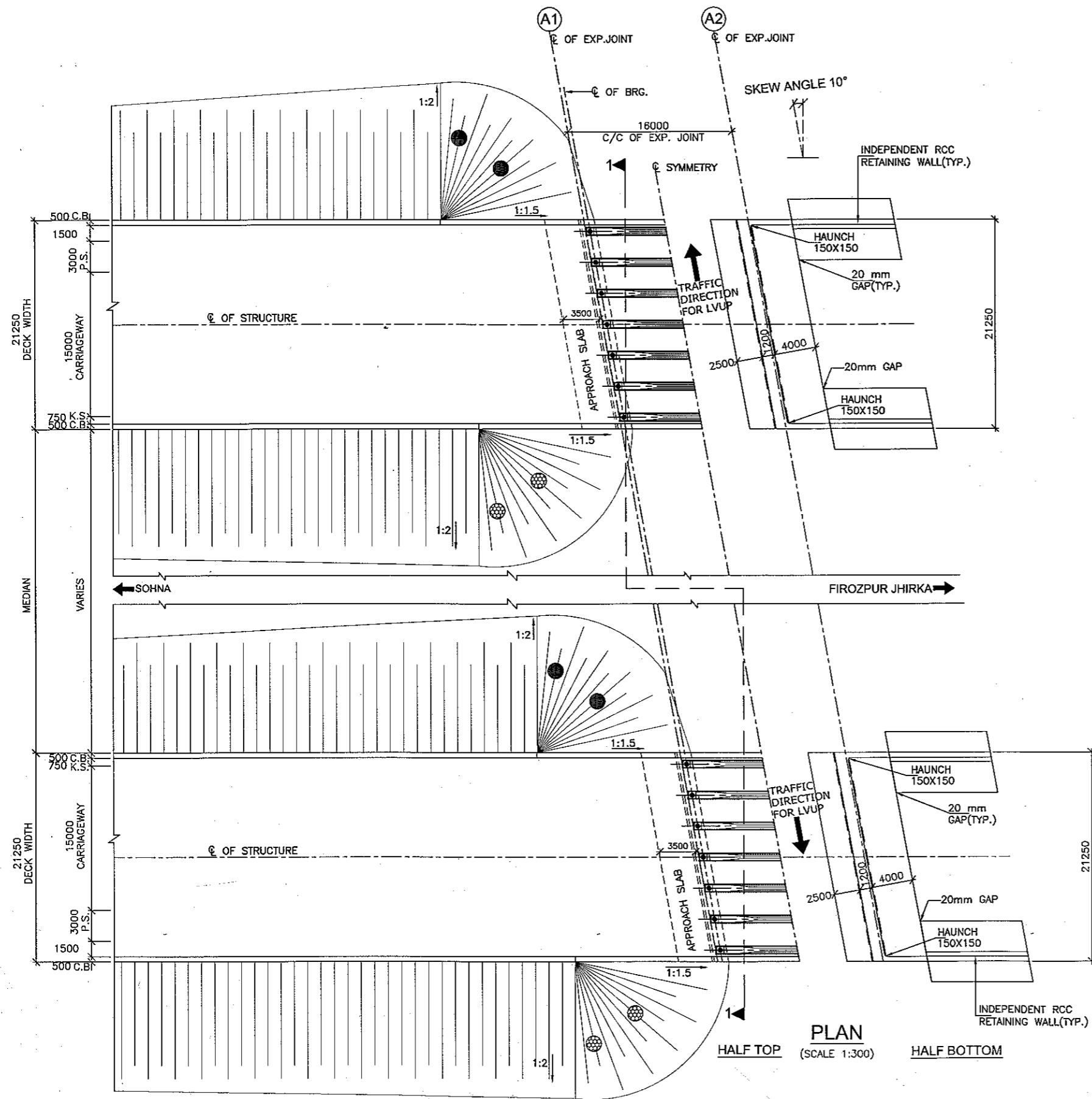


CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 25.00 M C/C EXP. JOINT) AT CH.-52+045 (SOHNA - FIROZPUR JHIRKA)	DRAWING No. :- (SHEET 2 OF 2) CPCIP-152/CH-52+045/S-100
					DATE: AUGUST 2018 PREPARED BY: RAVINDRA SINGH CHECKED BY: MOHD. SALIK APPROVED BY: NEERAJ

**LVUP
RCC T-BEAM (SIZE 1x16.0M)
AT KM 58+101**



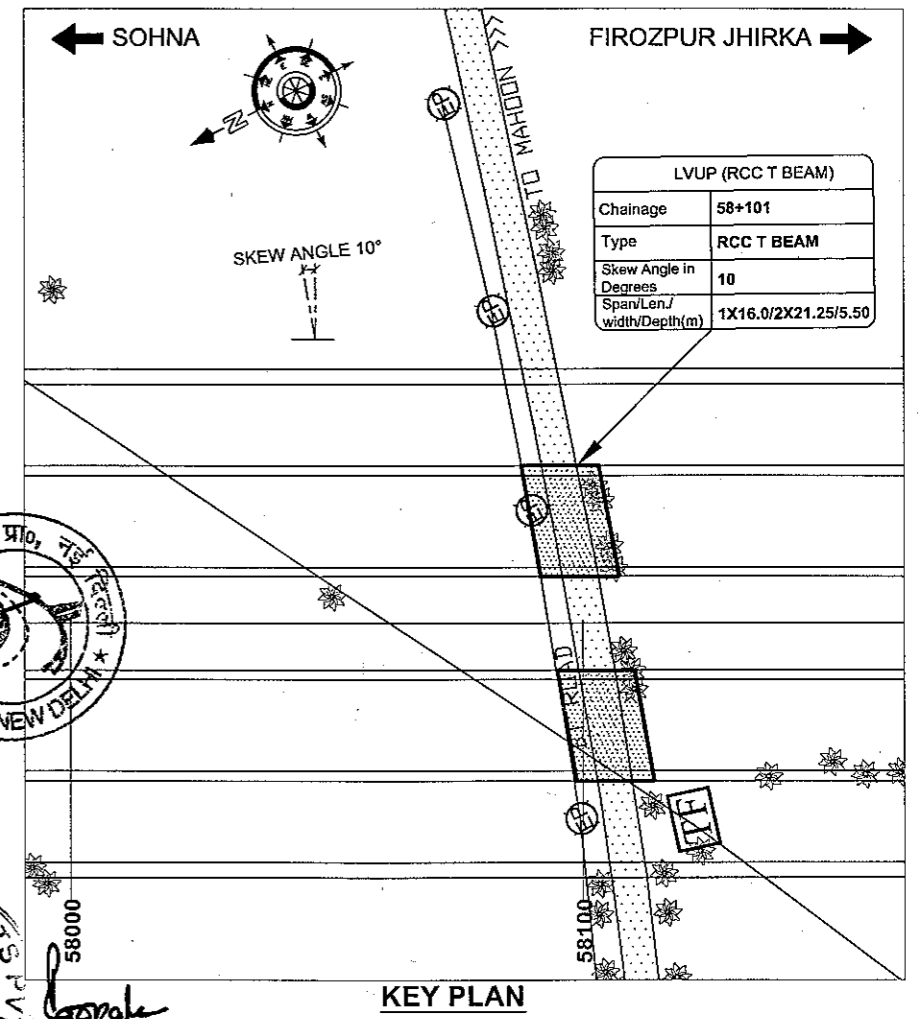
Signature



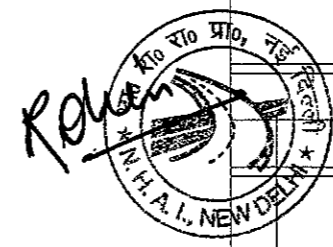
PLAN
(SCALE 1:300)
HALF TOP HALF BOTTOM

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
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8. 65mm THK. C.C. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
9. ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.
10. CONDITION OF EXPOSURE IS MODERATE.
11. THIS STRUCTURE LIES IN SEISMIC ZONE III.



LVUP (RCC T BEAM)	
Chainage	58+101
Type	RCC T BEAM
Skew Angle in Degrees	10
Span/Len./width/Depth(m)	1X16.0/2X21.25/5.50



CLIENT:-
National Highways Authority of India
(Ministry of Road, Transport & Highways, Govt. of India)

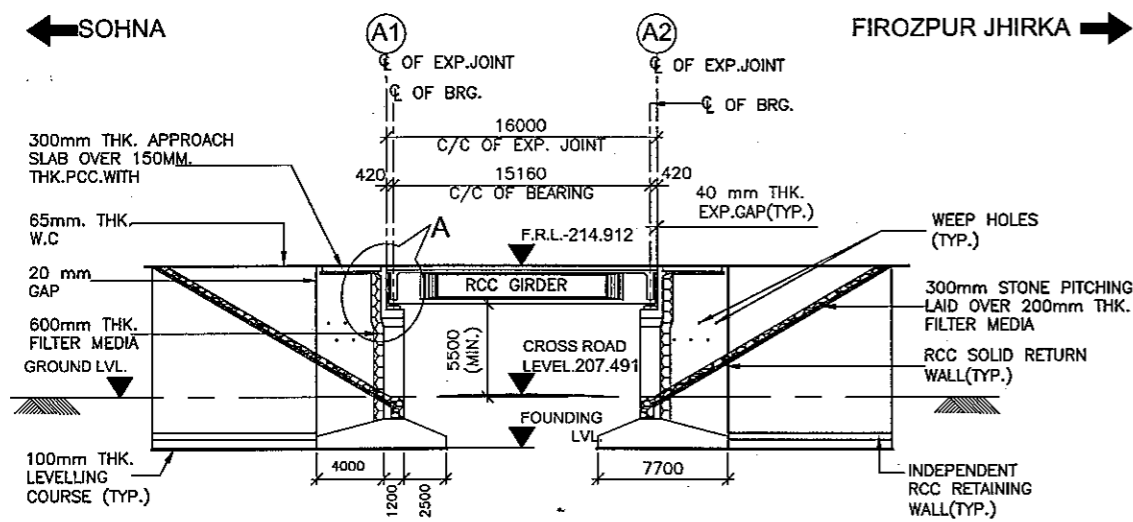
CONSULTANT:-
Chaitanya Projects Consultancy Pvt. Ltd.
C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD
PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-
Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE :-
AS SHOWN

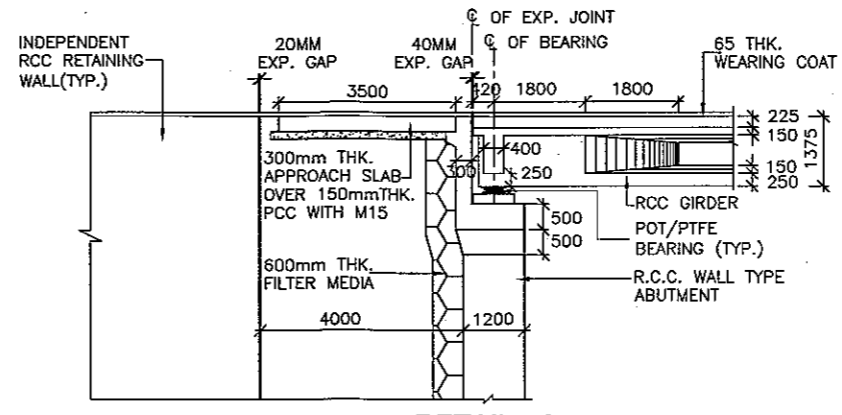
DWG TITLE:-
GENERAL ARRANGEMENT DRAWING
LVUP (SPAN, 1 X 16.00M C/C EXP. JOINT)
AT CH-58+101
(SOHNA - FIROZPUR JHIRKA)

DRAWING No. :- (SHEET 1 OF 2)
CPC/P-132/CH-58+101/S-100
DATE : AUGUST 2018 **Revision:** RD.
PREPARED BY : RAVINDRA SINGH **CHECKED BY :** MOHD. SALIK **APPROVED BY :** NEERAJ

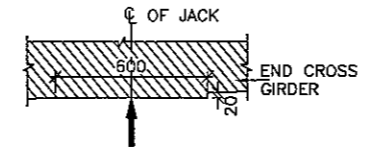


LONGITUDINAL ELEVATION
(SCALE 1:300)

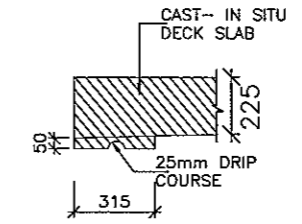
FORMATION LEVEL (m)	214.912	214.912
GROUND LEVEL (m)	207.475	207.487
CHAINAGE (m)	58+93	58+101
	58+101	58+109



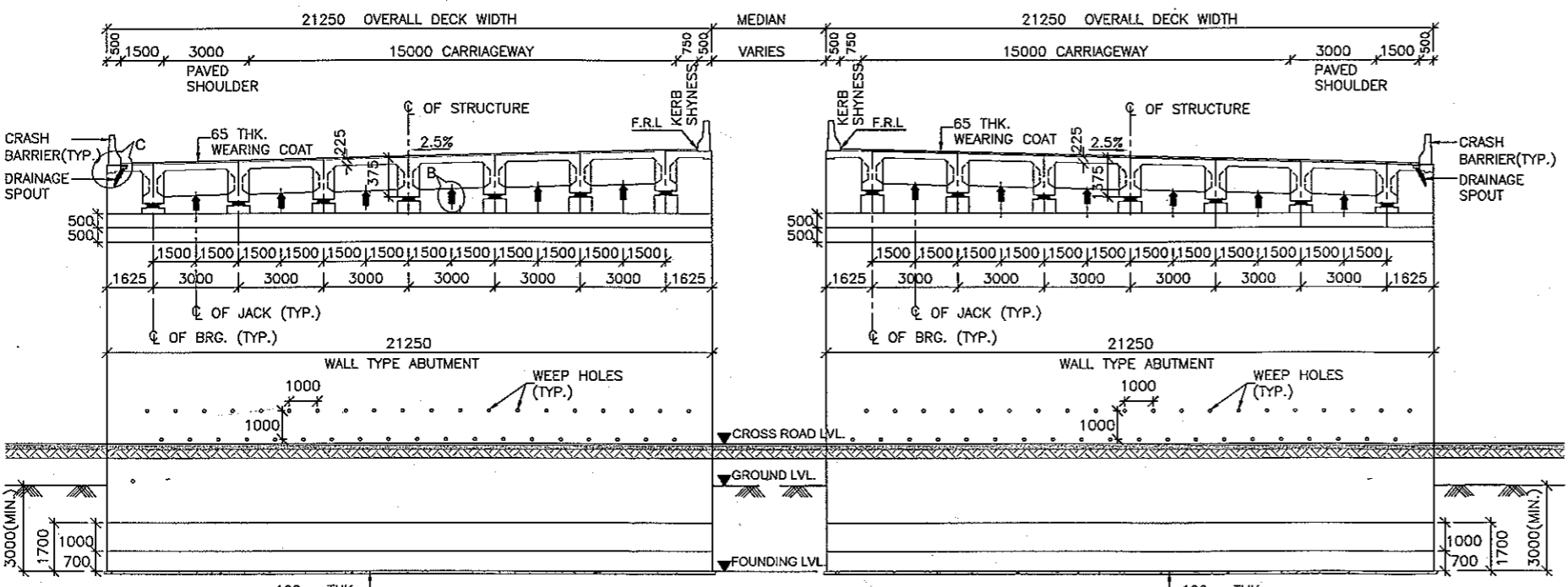
DETAIL - A
(SCALE 1:100)



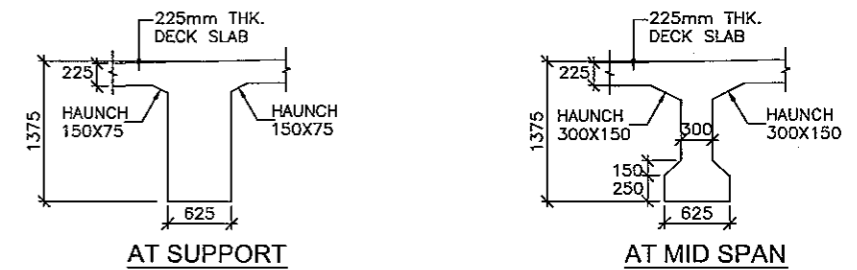
DETAIL - B
DETAIL OF CROSS GIRDER
AT JACK LOCATION
(SCALE 1:20)



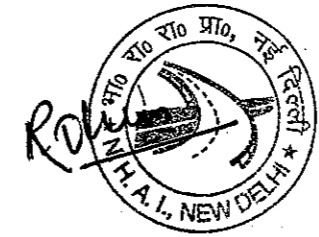
DETAIL - C
(SCALE 1:20)



SECTION AT 1-1
(SCALE 1:150)



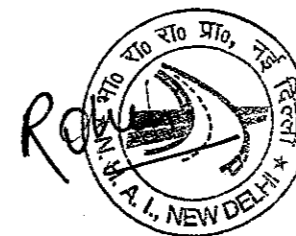
CROSS SECTION OF CAST IN SITU RCC GIRDER
(SCALE 1:50)

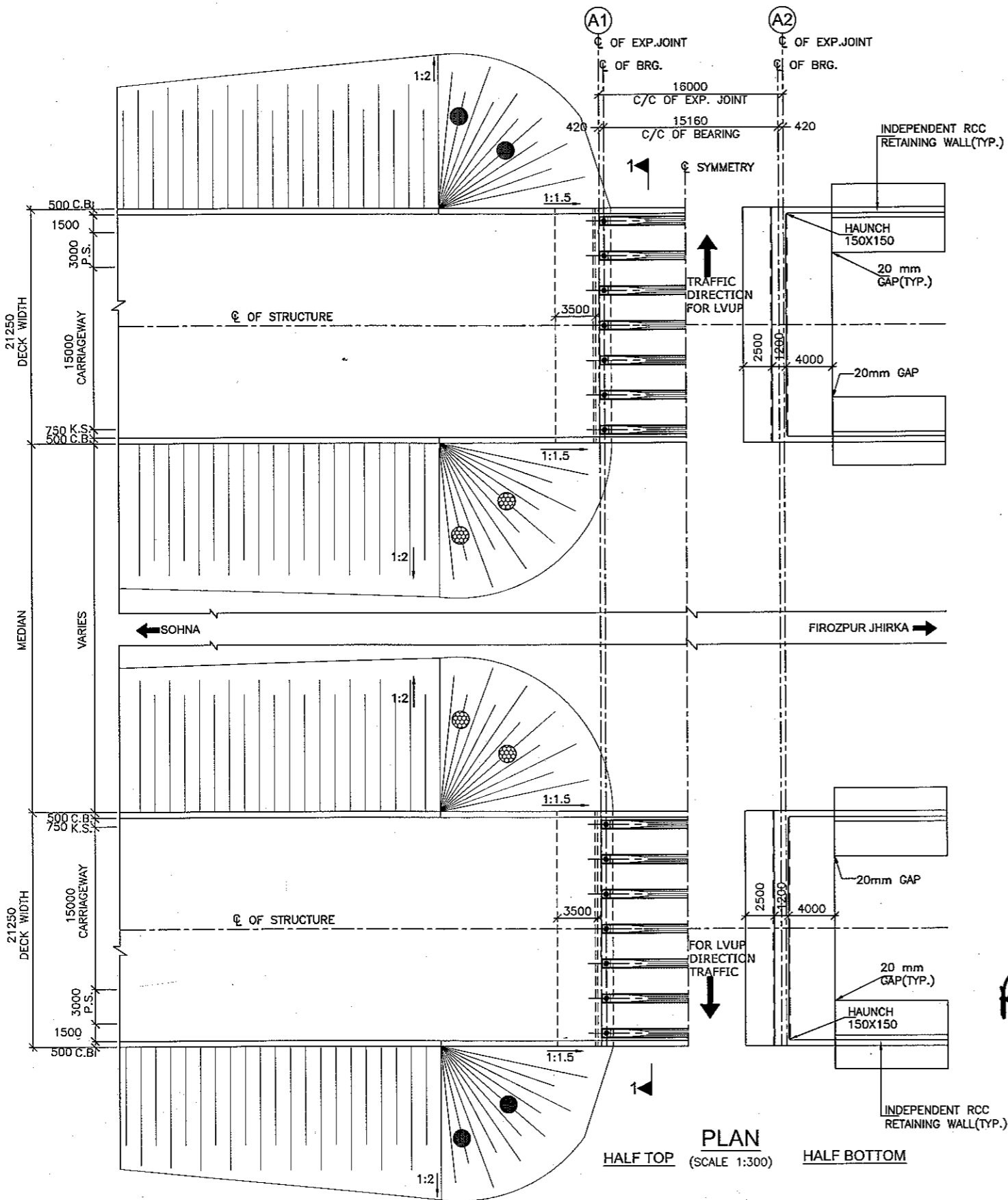


Bope

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 16.00M C/C EXP. JOINT) AT CH.-58+101 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-132/CH-58+101/S-100 (SHEET 2 OF 2)
					DATE : AUGUST 2018
PREPARED BY RAVINDRA SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ			

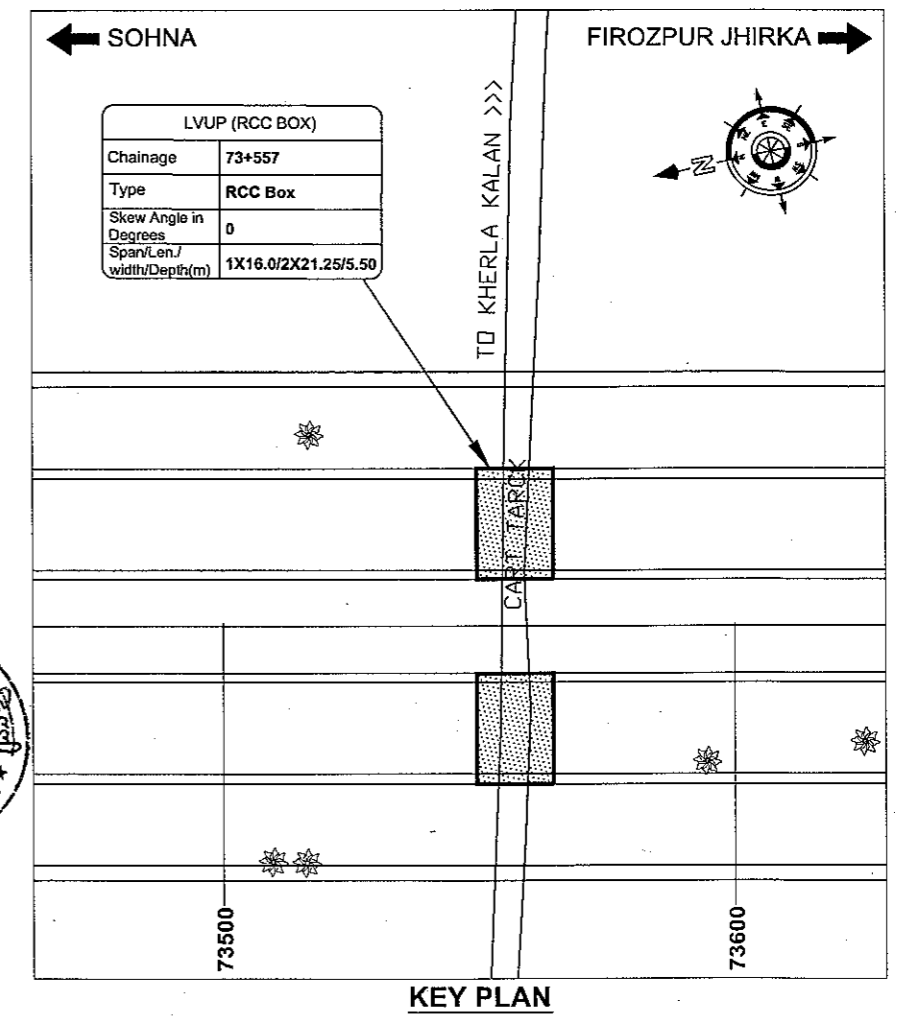
LVUP
RCC T-BEAM (SIZE 1x15.0M)
AT KM 73+557





PLAN
SCALE 1:300
HALF TOP HALF BOTTOM

- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED.
 - THE PROPOSED 3 LANE BRIDGE HAS BEEN DESIGNED FOR 70R OR +1LANE,3LANE CLASS A LOADING, WHICHEVER GOVERNS.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
 PCC LEVELLING COURSE : M-15
 SUPERSTRUCTURE : M-40
 SUBSTRUCTURE : M-35
 CRASH BARRIER : M-40
 APPROACH SLAB : M-30
 RETURN/WING WALLS : M-35
 - GRADE OF STEEL SHALL BE Fe-5000 CONFORMING TO IS:1786.
 - BACK FILLING BEHIND ABUTMENTS AND RETURN WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC:78-2014 HAVING PROPERTIES $C=0$, $\phi=30^\circ$, $\delta=20^\circ$ & $\gamma_s = 20 \text{ KN/m}^3$
 - LAYING COMPACTION AND EXTENT OF BACKFILL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO SPECIFICATIONS IN APPENDIX : 6 OF IRC : 78-2014
 - WEEP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS AND RETURN WALL TILL 150 mm ABOVE GROUND LEVEL.
 - 65mm THK. C.C. WEARING COURSE SECTION 500 OF MORTH SPECIFICATIONS.
 - ALL DIMENSIONS ARE TENTATIVE MAY BE CHANGED AFTER DETAIL DESIGN.
 - CONDITION OF EXPOSURE IS MODERATE.
 - THIS STRUCTURE LIES IN SEISMIC ZONE III.

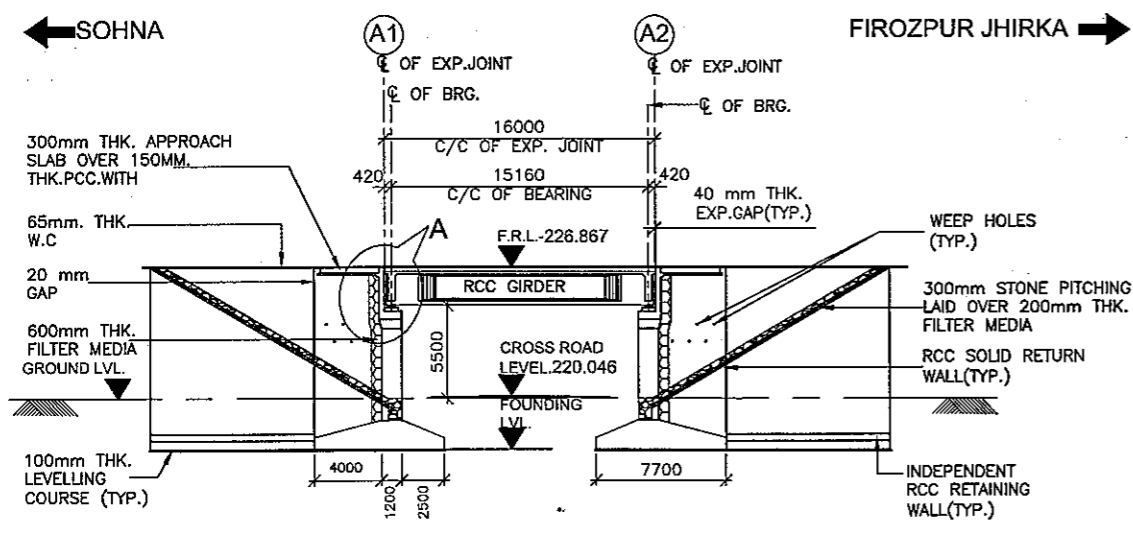


KEY PLAN

Robin

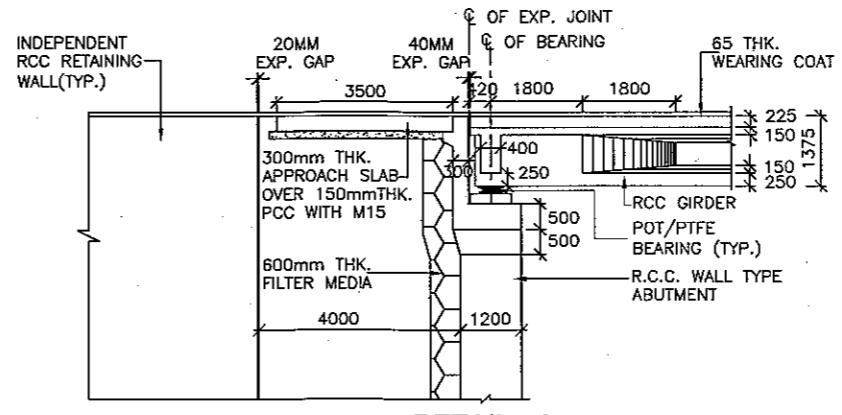
Boopal

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 16.00M C/C EXP. JOINT) AT CH.-73+557 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-73+557/S-100 (SHEET 1 OF 2)
					DATE : AUGUST 2018
		PREPARED BY RAVINDRA SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ	

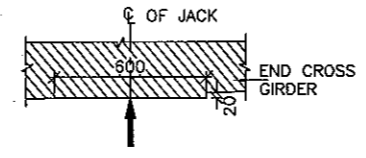


LONGITUDINAL ELEVATION
(SCALE 1:300)

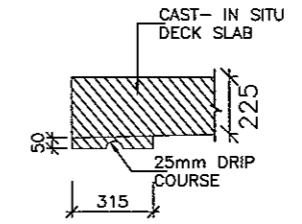
FORMATION LEVEL (m)	226.867	226.867
GROUND LEVEL (m)	219.032	219.081
CHAINAGE (m)	73+549	73+557
	73+557	73+565



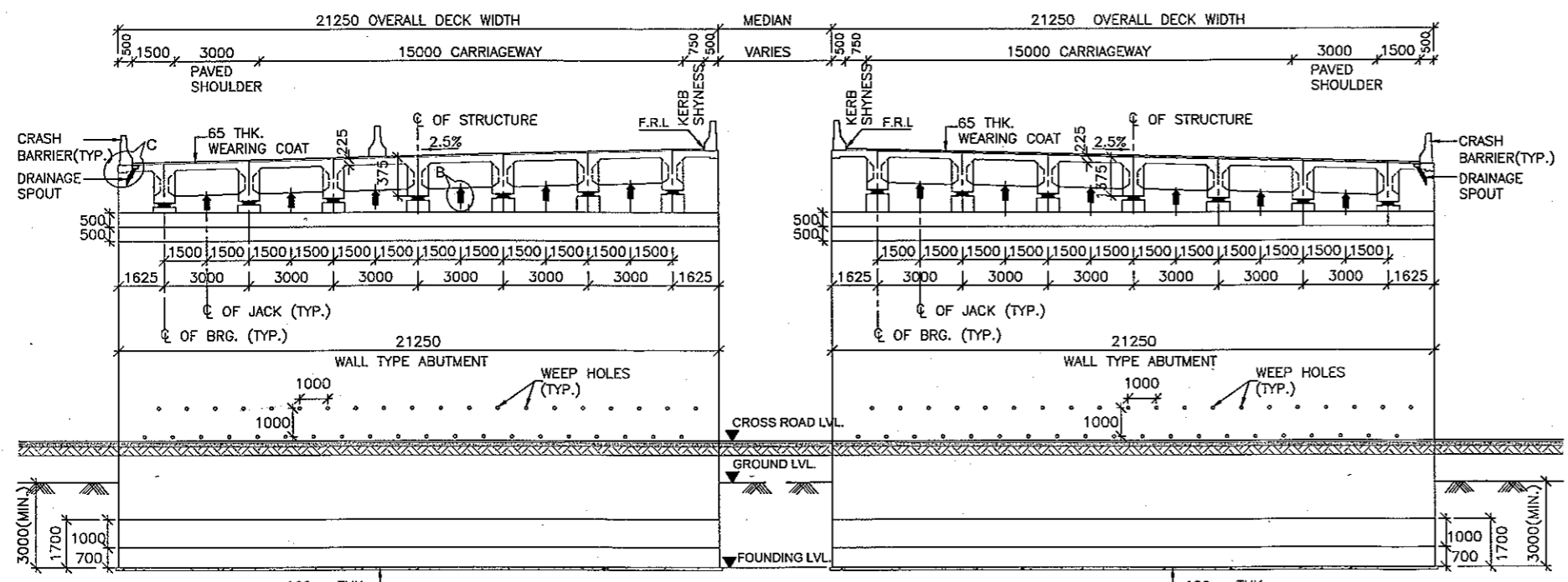
DETAIL - A
(SCALE 1:100)



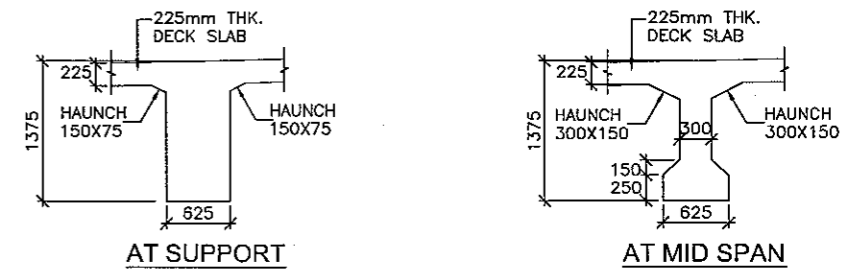
DETAIL - B
DETAIL OF CROSS GIRDER
AT JACK LOCATION
(SCALE 1:20)



DETAIL - C
(SCALE 1:20)



SECTION AT 1-1
(SCALE 1:150)



CROSS SECTION OF CAST IN SITU RCC GIRDER
(SCALE 1:50)



Signature

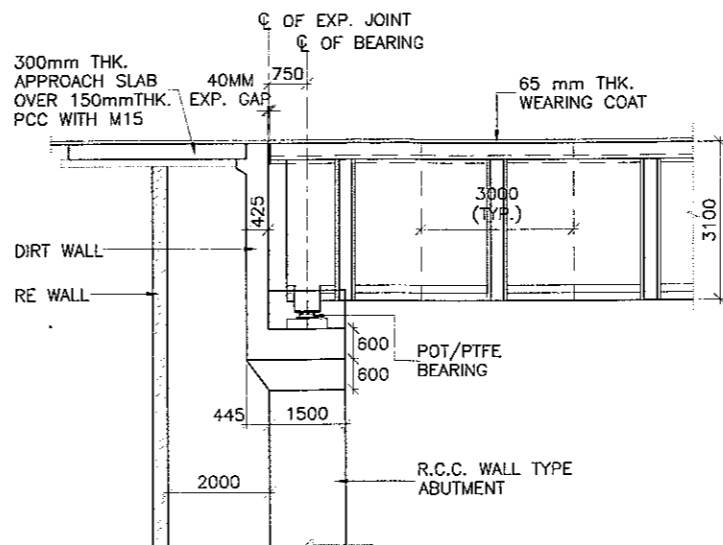
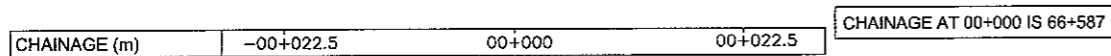
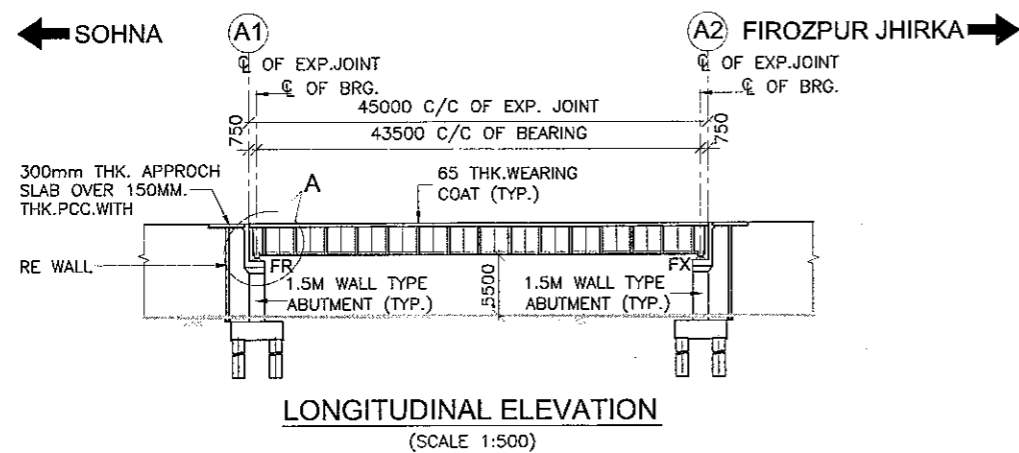
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING LVUP (SPAN 1 X 16.00M C/C EXP. JOINT) AT CH-73+557 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-73+557/S-100 (SHEET 2 OF 2)
					DATE : AUGUST 2018
PREPARED BY RAVINDRA SINGH	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ			

FLYOVER AT INTERCHANGE

Ch. 66+587



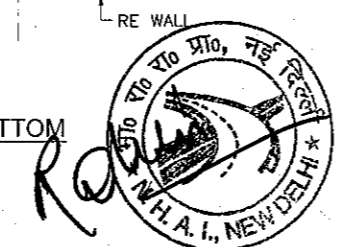
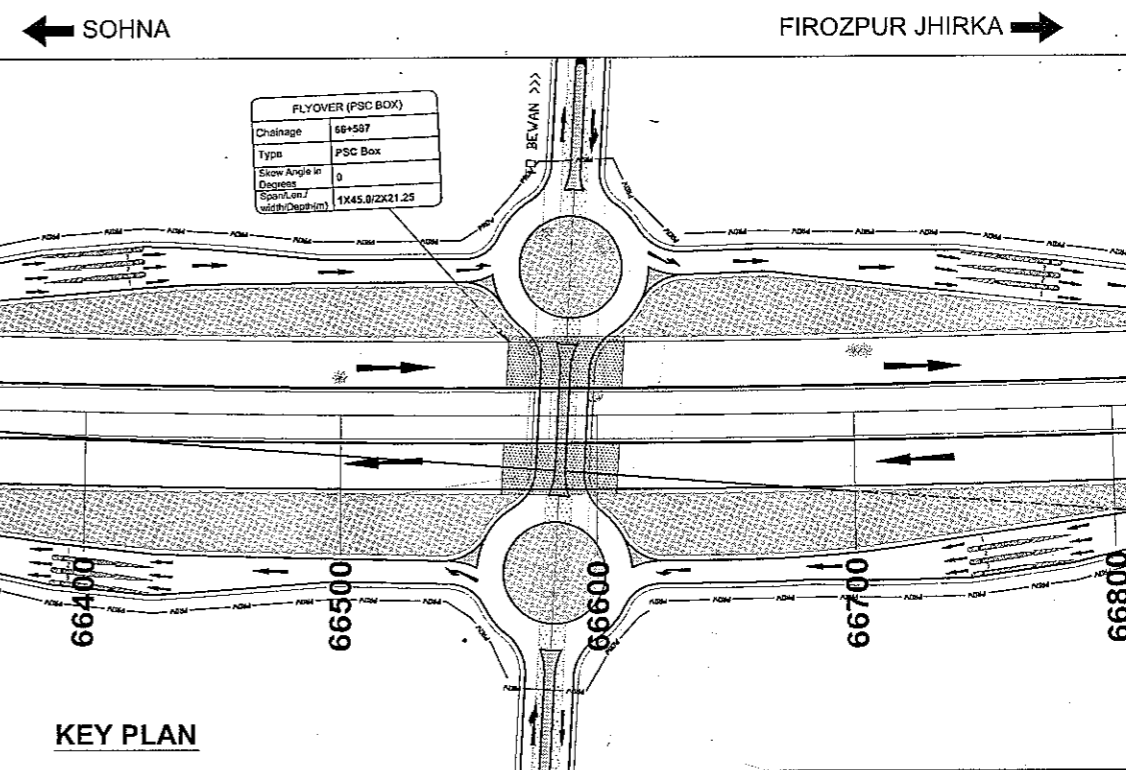
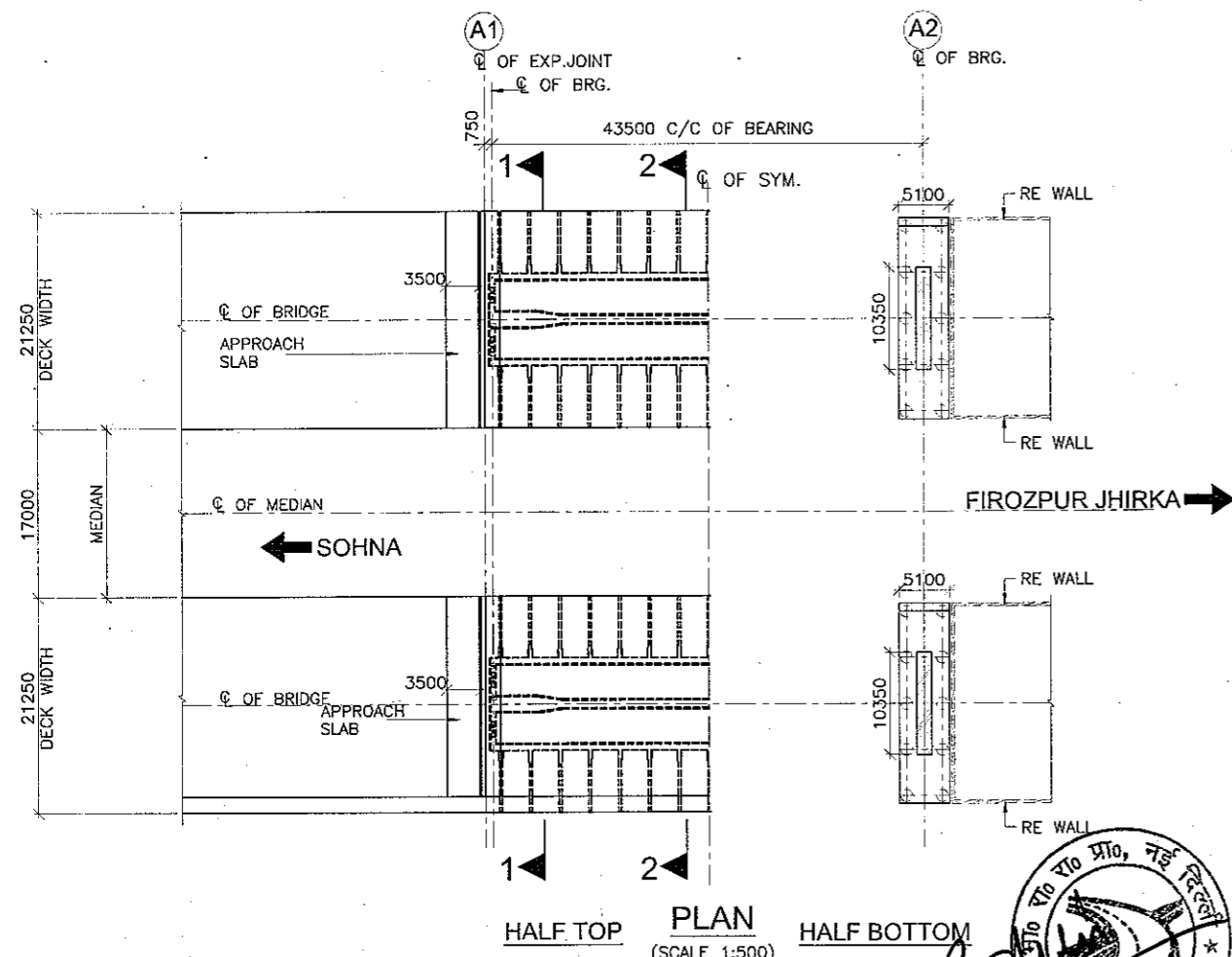
Signature



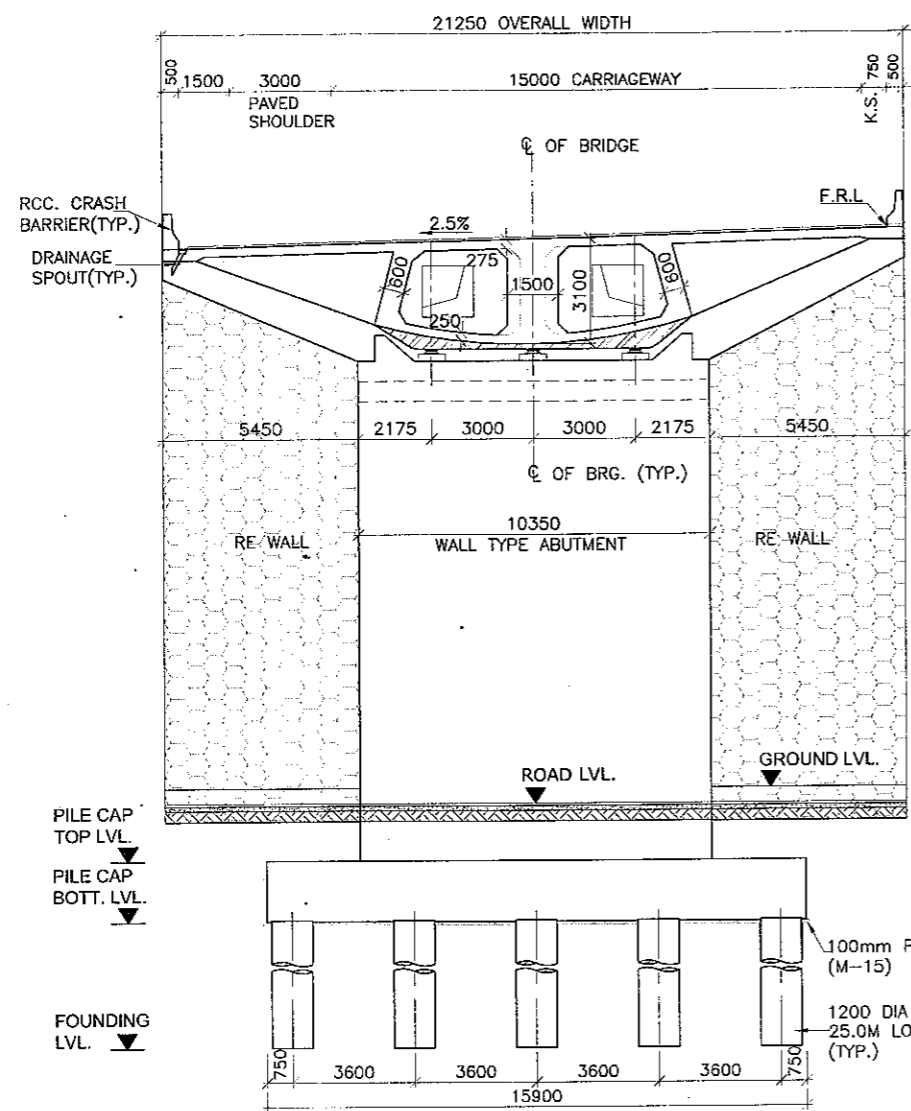
DETAIL - A
(SCALE 1:100)

NOTES:-

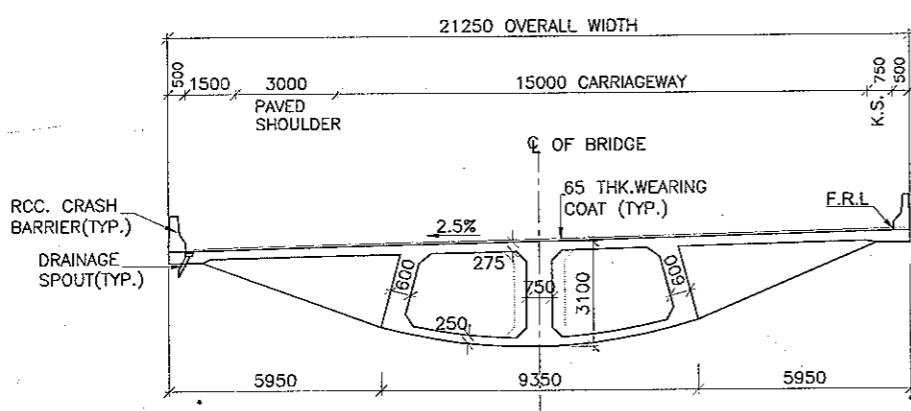
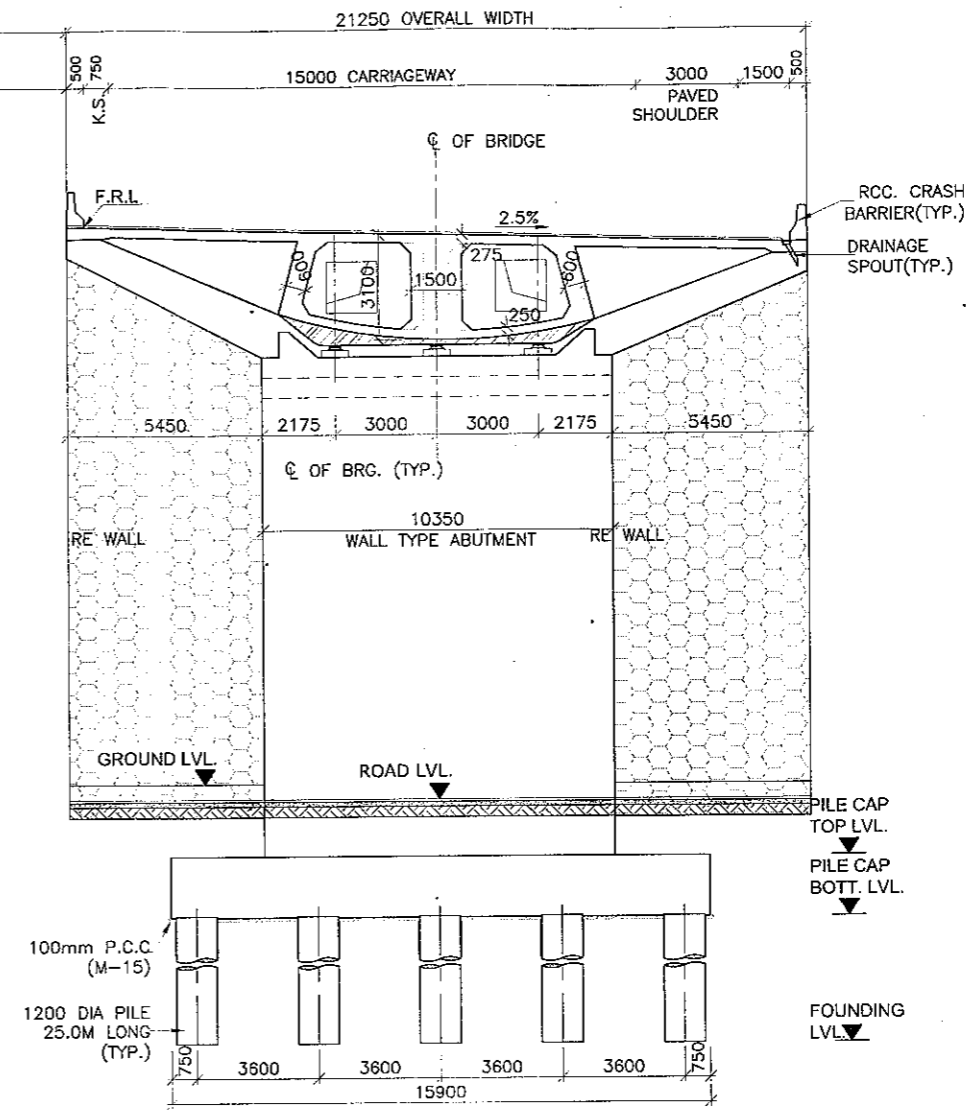
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METRES UNLESS MENTIONED OTHERWISE.
2. NO DIMENSION SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE IN VARIOUS COMPONENTS SHALL BE AS UNDER :
 SUBSTRUCTURE----- M35
 SUPER STRUCTURE----- M45
 CRASH BARRIER----- M40
 APPROACH SLAB----- M30
 INDEPENDENT RETAINING WALL----- M35
4. THE BRIDGE IS DESIGNED FOR ONE LANE OF 70R + 1 LANE OF CLASS A LOADING OR 3 LANE OF CLASS A LOADING WHICHEVER
5. UNLESS NOTED OTHERWISE, PIERS SHALL BE PERPENDICULAR TO THE BRIDGES AXIS.
 PIER SHALL BE ALIGNED ALONG THE RADIAL LINES.
6. FOUNDATION DEPTH SHALL BE VERIFIED AFTER CONFORMATORY BORE HOLES.
7. THE SAFE BEARING CAPACITY OF ROCK AT FOUNDATION LVL. IS
 (i) 340 T FOR PILE FOUNDATION
 (ii) 35 T/m² FOR OPEN FOUNDATION
8. BACK FILLING BEHIND ABUTMENTS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX-6 OF IRC:78-2000 HAVING PROPERTIES C=0, $\phi \geq 30^\circ$, $\delta = 20^\circ$ & $\gamma_d = 18 \text{ kN/m}^3$
9. WEEP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS WALLS.
10. CONSTRUCTION OF ABUTMENT/PIER CAP TO BE CARRIED OUT AFTER FINALIZATION OF BEARING SIZES IN CONSULTATION WITH BEARING MANUFACTURER & AS APPROVED BY ENGINEER IN CHARGE AND ALSO TO SUIT THE REQUIREMENTS OF CONSTRUCTION SCHEME AND FOR PROVIDING ACCESS FROM DECK FOR INSPECTION PURPOSES.
11. STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED.
12. POT CUM PTFE BEARING SHALL BE PROVIDED.
13. THE FOUNDATIONS HAVE BEEN DESIGNED ON THE BASIS OF THE GEOTECHNICAL INVESTIGATION REPORT. IF DURING ACTUAL EXECUTION THE SUB SOIL STRATA IS FOUND TO BE DIFFERENT, FROM THAT SHOWN IN THE ABOVE REPORT, THE DESIGN SHALL BE SUITABLY MODIFIED.
14. CONSTRUCTION OF GROUND CROSS SECTION TO BE VERIFIED BEFORE EXECUTION OF WORK.
15. FOR DETAILS OF CRASHING WALLS, DRAINAGE SPOUT ETC. REFER SEPERATE DRAWING.
16. FOR DETAILS OF CRASH BARRIER, DRAINAGE SPOUT ETC. REFER SEPERATE DRAWING.
17. CONDITION OF EXPANSION JOINTS SHALL BE PROVIDED.



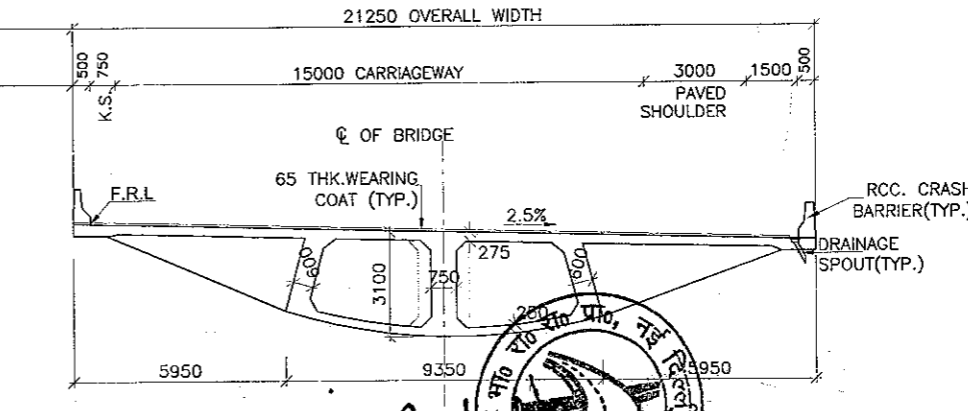
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING SPAN (1 X 45.00 M C/C EXP. JOINT) AT CH.-66+587 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- (SHEET 1 OF 2) CPC/P-152/CH-66+587/S-100		
					DATE: MARCH 2019	Revision: R0	
					PREPARED BY SHIAM NEGI	CHECKED BY MOHD. SALIK	APPROVED BY NEERAJ



SECTION AT 1-1
(SCALE 1:150)



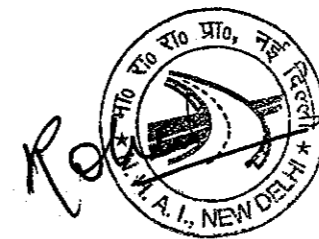
SECTION AT 2-2
(SCALE 1:150)



CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- AS SHOWN	DWG TITLE:- GENERAL ARRANGEMENT DRAWING SPAN (1 X 45.00 M C/C EXP. JOINT) AT CH.-66+587 (SOHNA - FIROZPUR JHIRKA)	DRAWING No :- CPC/P-152/CH-66+587/S-100 (SHEET 2 OF 2)	
					DATE : MARCH 2018	Revision: R0
PREPARED BY SHIAM NEGI		CHECKED BY MOHD. SALIK		APPROVED BY NEERAJ		

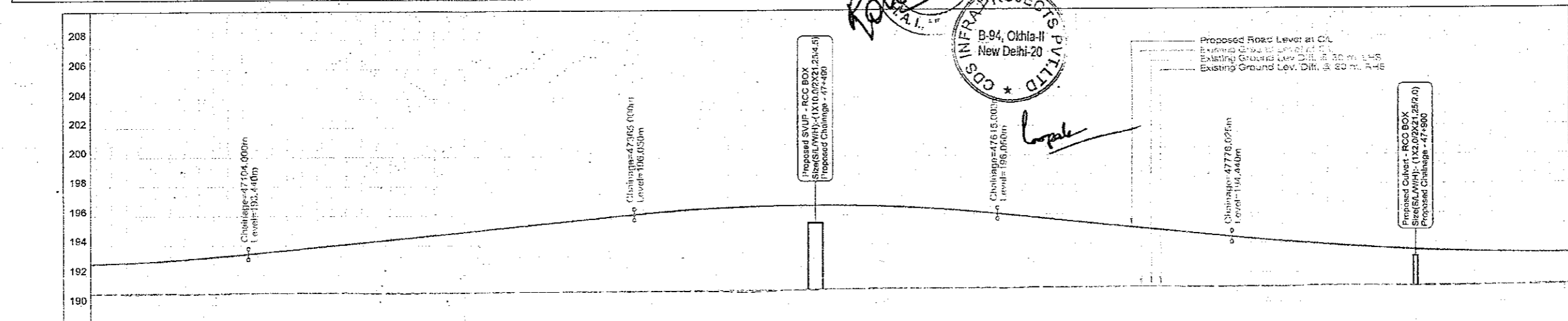
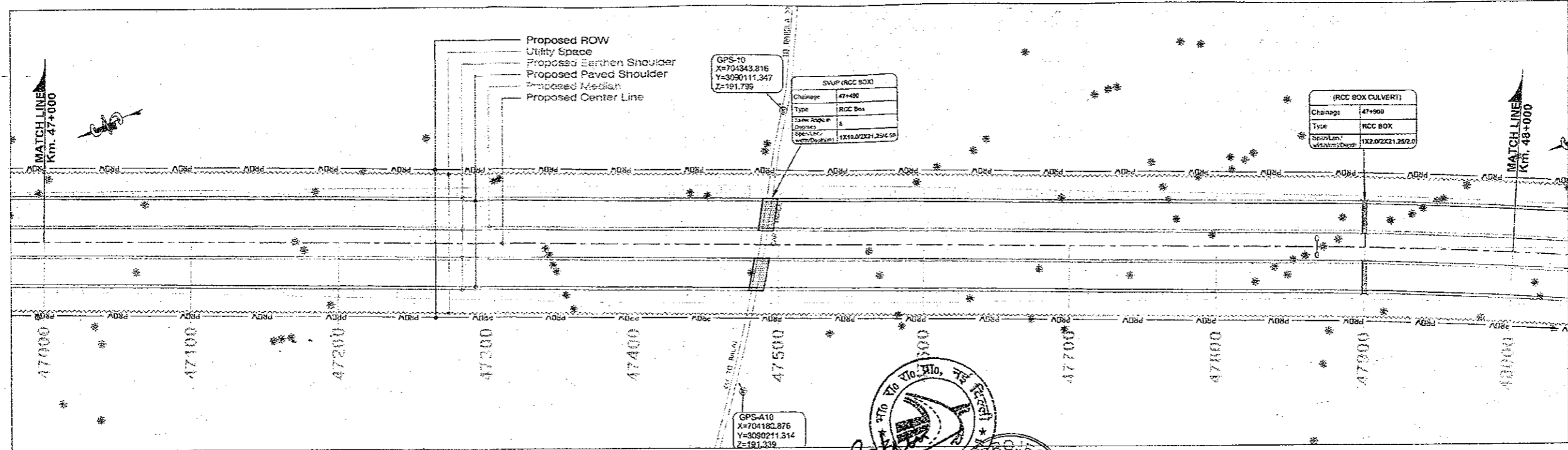
PLAN & PROFILE

Plan & Profile



TO SOHNA

TO FIROZPUR JHIRKA



Station (MTR.)	PROPOSED ROAD LEVEL AT CA OF C/W	EXISTING GROUND LEVEL AT CA OF C/W	PROPOSED VERTICAL ALIGNMENT	PROPOSED HORIZONTAL ALIGNMENT	PROPOSED ROAD LEVEL AT CA OF C/W
47000.0	192.781	2.016	G=1.0	Q=2.5	192.781
47010.0	192.795	2.038	G=1.0	Q=2.5	192.795
47020.0	192.805	2.074	G=1.0	Q=2.5	192.805
47030.0	192.835	2.114	G=1.0	Q=2.5	192.835
47040.0	192.937	2.223	G=1.0	Q=2.5	192.937
47050.0	192.987	2.275	G=1.0	Q=2.5	192.987
47060.0	193.085	2.315	G=1.0	Q=2.5	193.085
47070.0	193.139	2.403	G=1.0	Q=2.5	193.139
47080.0	193.219	2.472	G=1.0	Q=2.5	193.219
47090.0	193.307	2.535	G=1.0	Q=2.5	193.307
47100.0	193.401	2.611	G=1.0	Q=2.5	193.401
47110.0	193.500	2.696	G=1.0	Q=2.5	193.500
47120.0	193.600	2.791	G=1.0	Q=2.5	193.600
47130.0	193.700	2.895	G=1.0	Q=2.5	193.700
47140.0	193.800	2.974	G=1.0	Q=2.5	193.800
47150.0	193.900	3.073	G=1.0	Q=2.5	193.900
47160.0	194.000	3.173	G=1.0	Q=2.5	194.000
47170.0	194.100	3.272	G=1.0	Q=2.5	194.100
47180.0	194.200	3.368	G=1.0	Q=2.5	194.200
47190.0	194.300	3.501	G=1.0	Q=2.5	194.300
47200.0	194.400	3.608	G=1.0	Q=2.5	194.400
47210.0	194.500	3.709	G=1.0	Q=2.5	194.500
47220.0	194.600	3.802	G=1.0	Q=2.5	194.600
47230.0	194.700	3.896	G=1.0	Q=2.5	194.700
47240.0	194.800	3.985	G=1.0	Q=2.5	194.800
47250.0	194.900	4.080	G=1.0	Q=2.5	194.900
47260.0	195.000	4.156	G=1.0	Q=2.5	195.000
47270.0	195.100	4.272	G=1.0	Q=2.5	195.100
47280.0	195.200	4.380	G=1.0	Q=2.5	195.200
47290.0	195.300	4.491	G=1.0	Q=2.5	195.300
47300.0	195.400	4.557	G=1.0	Q=2.5	195.400
47310.0	195.500	4.673	G=1.0	Q=2.5	195.500
47320.0	195.600	4.738	G=1.0	Q=2.5	195.600
47330.0	195.700	4.836	G=1.0	Q=2.5	195.700
47340.0	195.800	4.941	G=1.0	Q=2.5	195.800
47350.0	195.900	5.055	G=1.0	Q=2.5	195.900
47360.0	196.000	5.157	G=1.0	Q=2.5	196.000
47370.0	196.100	5.209	G=1.0	Q=2.5	196.100
47380.0	196.200	5.300	G=1.0	Q=2.5	196.200
47390.0	196.275	5.426	G=1.0	Q=2.5	196.275
47400.0	196.350	5.508	G=1.0	Q=2.5	196.350
47410.0	196.419	5.560	G=1.0	Q=2.5	196.419
47420.0	196.470	5.653	G=1.0	Q=2.5	196.470
47430.0	196.521	5.710	G=1.0	Q=2.5	196.521
47440.0	196.575	5.760	G=1.0	Q=2.5	196.575
47450.0	196.611	5.811	G=1.0	Q=2.5	196.611
47460.0	196.650	5.863	G=1.0	Q=2.5	196.650
47470.0	196.671	5.911	G=1.0	Q=2.5	196.671
47480.0	196.685	5.957	G=1.0	Q=2.5	196.685
47490.0	196.691	5.998	G=1.0	Q=2.5	196.691
47500.0	196.695	6.039	G=1.0	Q=2.5	196.695
47510.0	196.695	6.077	G=1.0	Q=2.5	196.695
47520.0	196.695	6.111	G=1.0	Q=2.5	196.695
47530.0	196.695	6.141	G=1.0	Q=2.5	196.695
47540.0	196.695	6.167	G=1.0	Q=2.5	196.695
47550.0	196.695	6.190	G=1.0	Q=2.5	196.695
47560.0	196.695	6.210	G=1.0	Q=2.5	196.695
47570.0	196.695	6.229	G=1.0	Q=2.5	196.695
47580.0	196.695	6.246	G=1.0	Q=2.5	196.695
47590.0	196.695	6.261	G=1.0	Q=2.5	196.695
47600.0	196.695	6.274	G=1.0	Q=2.5	196.695
47610.0	196.695	6.284	G=1.0	Q=2.5	196.695
47620.0	196.695	6.292	G=1.0	Q=2.5	196.695
47630.0	196.695	6.298	G=1.0	Q=2.5	196.695
47640.0	196.695	6.303	G=1.0	Q=2.5	196.695
47650.0	196.695	6.307	G=1.0	Q=2.5	196.695
47660.0	196.695	6.310	G=1.0	Q=2.5	196.695
47670.0	196.695	6.312	G=1.0	Q=2.5	196.695
47680.0	196.695	6.313	G=1.0	Q=2.5	196.695
47690.0	196.695	6.314	G=1.0	Q=2.5	196.695
47700.0	196.695	6.315	G=1.0	Q=2.5	196.695
47710.0	196.695	6.315	G=1.0	Q=2.5	196.695
47720.0	196.695	6.315	G=1.0	Q=2.5	196.695
47730.0	196.695	6.315	G=1.0	Q=2.5	196.695
47740.0	196.695	6.315	G=1.0	Q=2.5	196.695
47750.0	196.695	6.315	G=1.0	Q=2.5	196.695
47760.0	196.695	6.315	G=1.0	Q=2.5	196.695
47770.0	196.695	6.315	G=1.0	Q=2.5	196.695
47780.0	196.695	6.315	G=1.0	Q=2.5	196.695
47790.0	196.695	6.315	G=1.0	Q=2.5	196.695
47800.0	196.695	6.315	G=1.0	Q=2.5	196.695
47810.0	196.695	6.315	G=1.0	Q=2.5	196.695
47820.0	196.695	6.315	G=1.0	Q=2.5	196.695
47830.0	196.695	6.315	G=1.0	Q=2.5	196.695
47840.0	196.695	6.315	G=1.0	Q=2.5	196.695
47850.0	196.695	6.315	G=1.0	Q=2.5	196.695
47860.0	196.695	6.315	G=1.0	Q=2.5	196.695
47870.0	196.695	6.315	G=1.0	Q=2.5	196.695
47880.0	196.695	6.315	G=1.0	Q=2.5	196.695
47890.0	196.695	6.315	G=1.0	Q=2.5	196.695
47900.0	196.695	6.315	G=1.0	Q=2.5	196.695
47910.0	196.695	6.315	G=1.0	Q=2.5	196.695
47920.0	196.695	6.315	G=1.0	Q=2.5	196.695
47930.0	196.695	6.315	G=1.0	Q=2.5	196.695
47940.0	196.695	6.315	G=1.0	Q=2.5	196.695
47950.0	196.695	6.315	G=1.0	Q=2.5	196.695
47960.0	196.695	6.315	G=1.0	Q=2.5	196.695
47970.0	196.695	6.315	G=1.0	Q=2.5	196.695
47980.0	196.695	6.315	G=1.0	Q=2.5	196.695
47990.0	196.695	6.315	G=1.0	Q=2.5	196.695
48000.0	196.695	6.315	G=1.0	Q=2.5	196.695

CLIENT:-
National Highways Authority of India
 (Ministry of Road, Transport & Highway, Govt. of India)

CONSULTANT:-
Chaitanya Projects Consultancy Pvt. Ltd.
 C-5, 2ND FLOOR, R.K TOWER PLOT NO.- 21-22,
 SECTOR-4, VAISHALI, GHAZIABAD
 PH. 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-
 Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE :-
 Horizontal: 1:2000
 Vertical: 1:200

DWG TITLE:-
65
 PLAN & PROFILE
 (SOHNA - FIROZPUR JHIRKA)
 (KM 47-000 TO KM 48-000)

DRAWING No. CPCI/152/BM/EXP JFR/P&P/48

DATE: AUGUST 2018	Revision: R0
PREPARED BY: R K JALANDRA	DESIGNED BY: SANTOSI
CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA

PROPOSED LEGEND

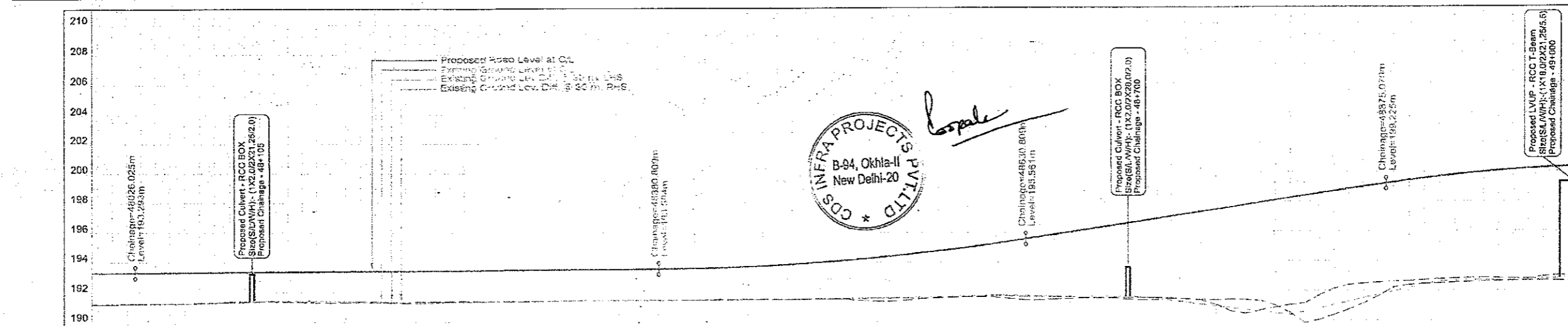
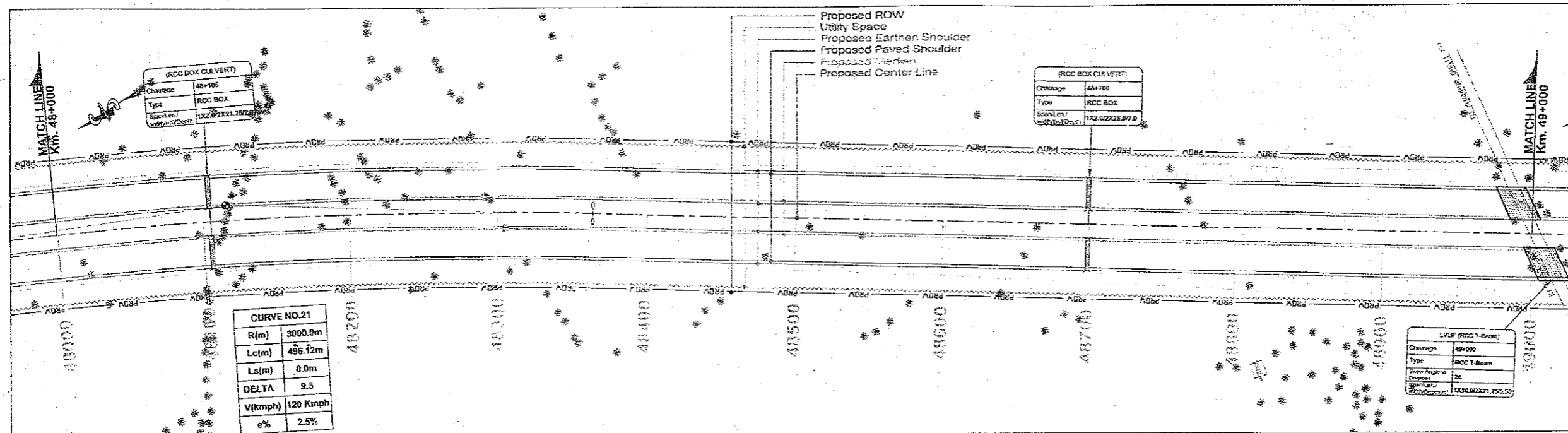
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PROP. C/L	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
P ROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT CA OF C/W	---
Ground/Road Level at CA of Ex C/W	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	---
GRADIENT	---
GRID	---

EXISTING LEGEND

BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFF	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---

TO SOHNA

TO FIROZPUR JHIRKA



Datum	188	190	192	194	196	198	200	202	204	206	208	210
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	193.286	193.286	193.286	193.286	193.286	193.286	193.286	193.286	193.286	193.286	193.286	193.286
GROUND ROAD LEVEL AT CL OF EXISTING CARRIAGEWAY (M)	191.195	191.200	191.205	191.210	191.215	191.220	191.225	191.230	191.235	191.240	191.245	191.250
EXISTING GROUND LEVELS DIFF. @ 30 M INTV FROM CL	2.117	2.089	2.079	2.076	2.077	2.081	2.083	2.084	2.085	2.086	2.087	2.088
EXISTING GROUND LEVELS DIFF. @ 30 M INTV FROM CL	2.001	2.128	2.107	2.092	2.078	2.063	2.044	2.035	2.037	2.041	2.041	2.041
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	R=3000.0m L=496.72m											
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	G=0.1 L=250.0m G=1.5											
SUPERELEVATION CROSSFALL (%)	G=2.6											
PROPOSED CHAINAGE (MTR.)	48000.0	48010.0	48020.0	48030.0	48040.0	48050.0	48060.0	48070.0	48080.0	48090.0	48100.0	48110.0

CLIENT:- National Highways Authority of India
 (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd.
 C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAJSHALI, GHAZIABAD
 PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE:- Horizontal = 1:2000
 Vertical = 1:200

DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 48+000 TO KM. 49+000)

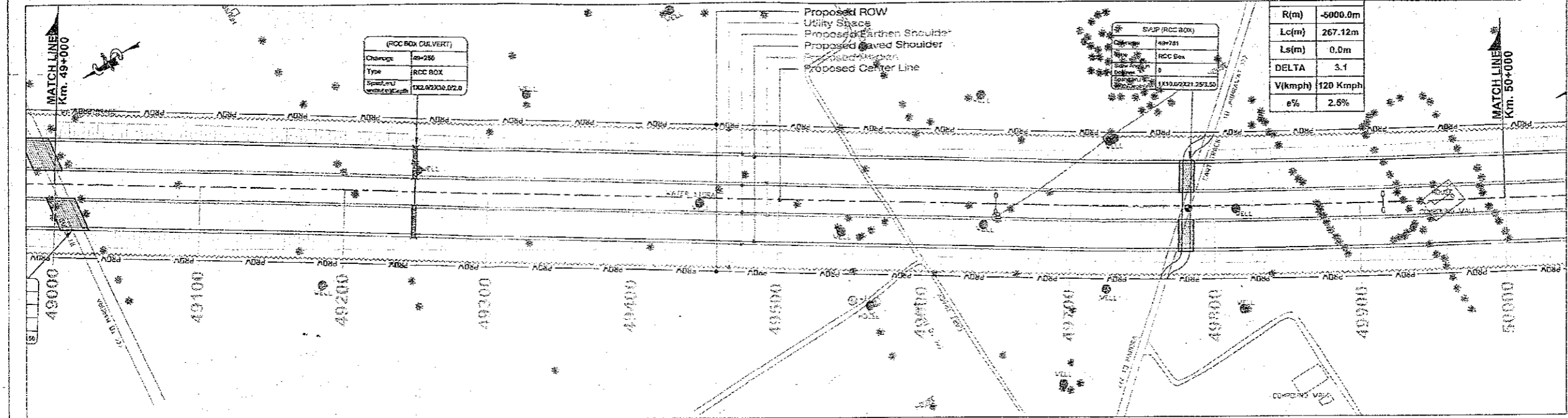
DRAWING No.: CPCIP-152/BWEXP/FR/P&P/19
 DATE: AUGUST 2018
 PREPARED BY: R.K. JAL ANDRA
 DESIGNED BY: SANTOSH
 CHECKED BY: DHARMAVIR
 APPROVED BY: S.K. SINGLA

PROPOSED LEGEND

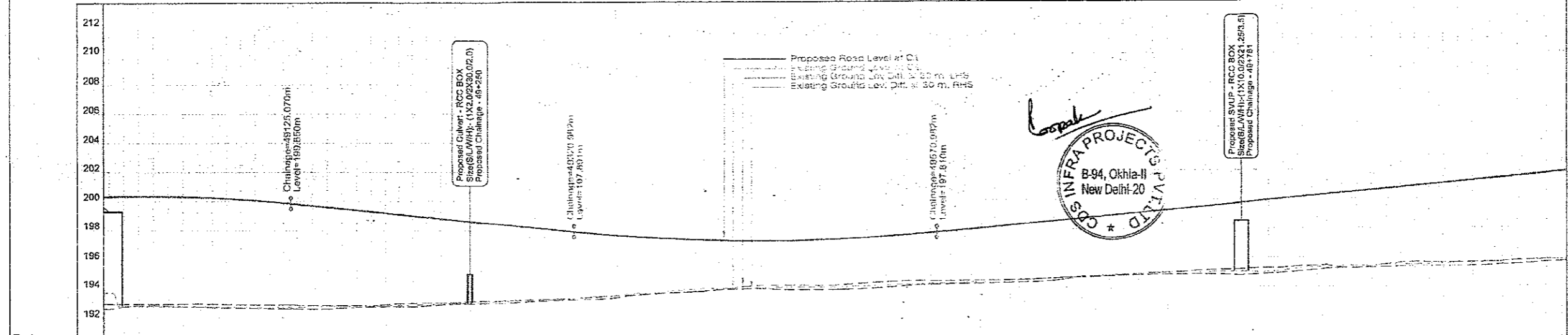
HIF LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	P ROW
PROP. CH	
MATCH LINE	
PRO ROAD LEVEL AT CL OF CV	
Ground/Road Level at C/L of Ex. CV	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

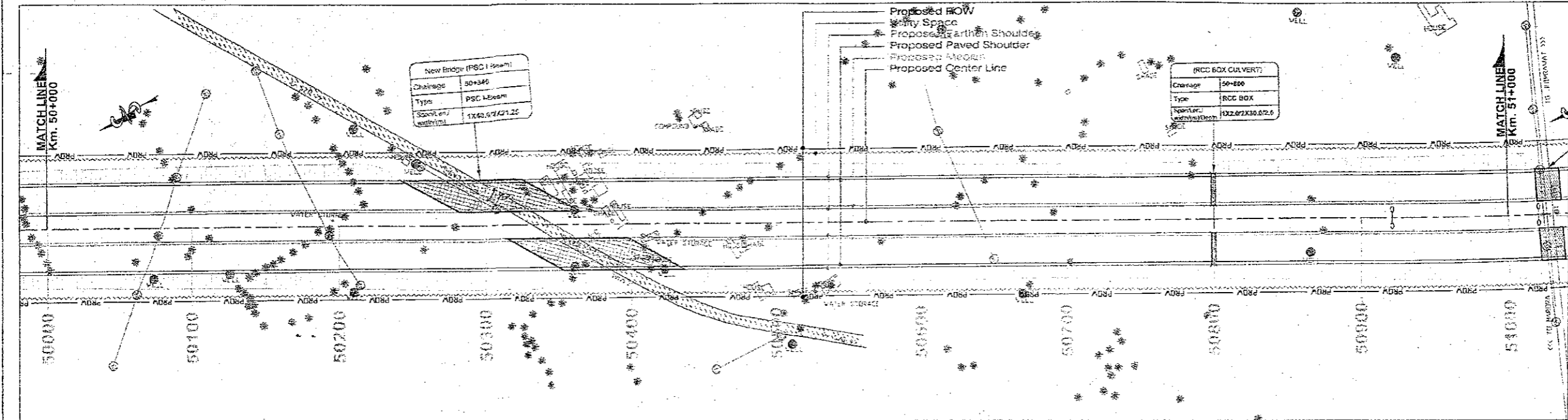


PROPOSED LEGEND	
HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	

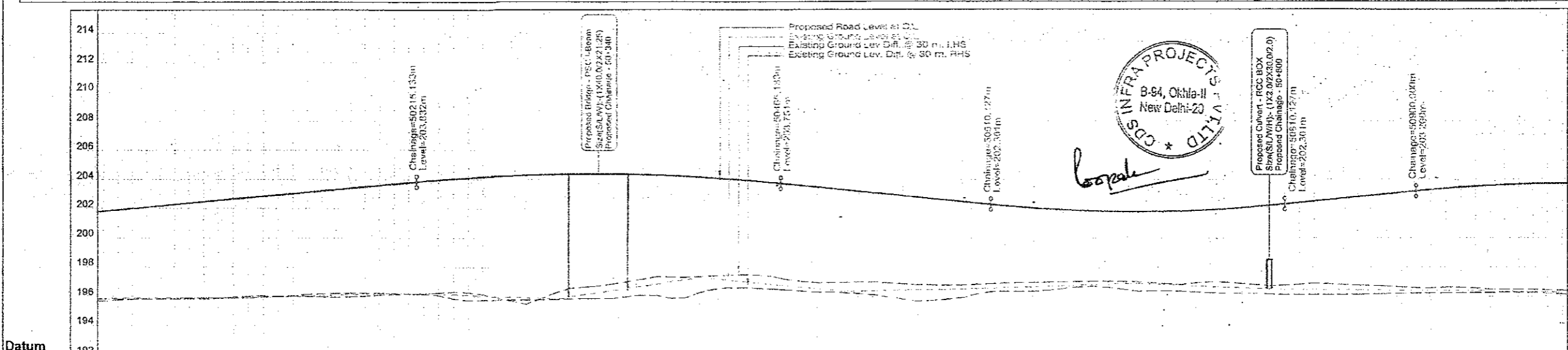


EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

<p>CLIENT:- National Highways Authority of India</p>	<p>CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka</p>	<p>SCALE:- Horizontal: 1:2000 Vertical: 1:200</p>	<p>DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 49+000 TO KM. 50+000)</p>	<p>DRAWING No. - CPC/P-152/BM/EXP/FR/P&P/50 DATE: AUGUST 2018 PREPARED BY: R K JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARASVAR APPROVED BY: S.K.SINHA</p>
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PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	PROW
PROP. CH	0.00
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground Road Level at C/L of Ex.C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	0
GRADIENT	G
GRID	



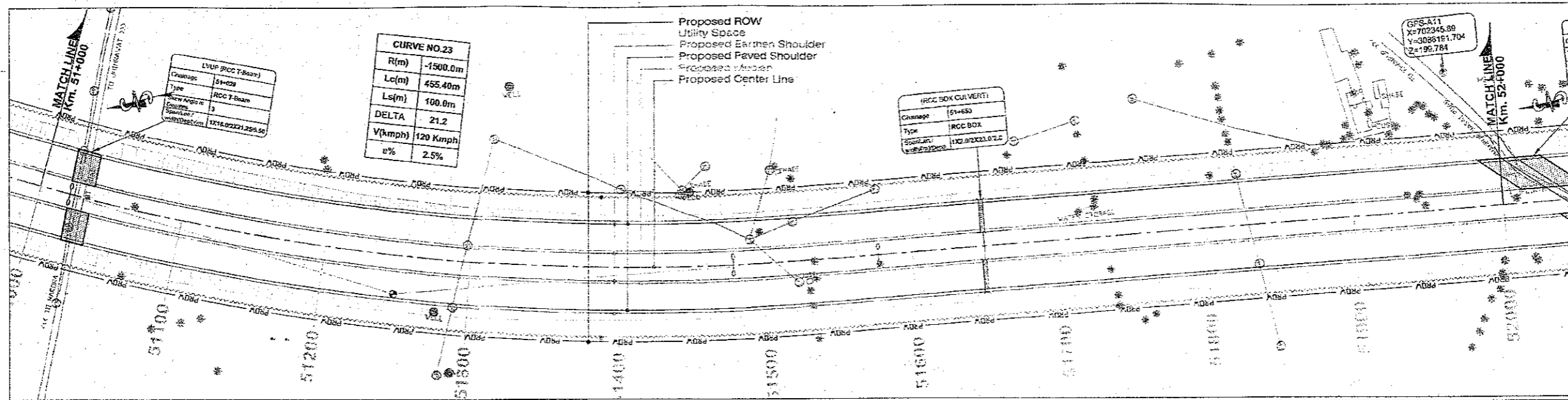
Chainage (MTR.)	PROPOSED ROAD LEVEL AT MEDIAN CENTERLINE (M)	GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)
50000.0	201.821	193.811	8.011	6.187			0.00
50010.0	201.914	193.846	8.068	6.203			0.00
50020.0	202.008	193.894	8.114	6.210			0.00
50030.0	202.101	193.937	8.164	6.272			0.00
50040.0	202.145	193.979	8.166	6.354			0.00
50050.0	202.200	194.036	8.164	6.479			0.00
50060.0	202.247	194.093	8.154	6.568			0.00
50070.0	202.275	194.139	8.136	6.659			0.00
50080.0	202.369	194.196	8.173	6.719			0.00
50090.0	202.462	194.253	8.209	6.776			0.00
50100.0	202.556	194.310	8.246	6.830			0.00
50110.0	202.649	194.367	8.282	6.881			0.00
50120.0	202.742	194.424	8.318	6.929			0.00
50130.0	202.835	194.481	8.354	7.017			0.00
50140.0	202.928	194.538	8.390	7.117			0.00
50150.0	203.021	194.595	8.426	7.230			0.00
50160.0	203.114	194.652	8.462	7.350			0.00
50170.0	203.207	194.709	8.498	7.477			0.00
50180.0	203.300	194.766	8.534	7.611			0.00
50190.0	203.393	194.823	8.571	7.751			0.00
50200.0	203.486	194.880	8.606	7.897			0.00
50210.0	203.579	194.937	8.642	8.049			0.00
50220.0	203.672	195.030	8.642	8.207			0.00
50230.0	203.765	195.123	8.642	8.371			0.00
50240.0	203.858	195.216	8.642	8.541			0.00
50250.0	203.951	195.309	8.642	8.716			0.00
50260.0	204.044	195.402	8.642	8.896			0.00
50270.0	204.137	195.495	8.642	9.081			0.00
50280.0	204.230	195.588	8.642	9.271			0.00
50290.0	204.323	195.681	8.642	9.466			0.00
50300.0	204.416	195.774	8.642	9.665			0.00
50310.0	204.509	195.867	8.642	9.869			0.00
50320.0	204.602	195.960	8.642	10.077			0.00
50330.0	204.695	196.053	8.642	10.289			0.00
50340.0	204.788	196.146	8.642	10.505			0.00
50350.0	204.881	196.239	8.642	10.725			0.00
50360.0	204.974	196.332	8.642	10.949			0.00
50370.0	205.067	196.425	8.642	11.177			0.00
50380.0	205.160	196.518	8.642	11.409			0.00
50390.0	205.253	196.611	8.642	11.645			0.00
50400.0	205.346	196.704	8.642	11.885			0.00
50410.0	205.439	196.797	8.642	12.129			0.00
50420.0	205.532	196.890	8.642	12.377			0.00
50430.0	205.625	196.983	8.642	12.629			0.00
50440.0	205.718	197.076	8.642	12.884			0.00
50450.0	205.811	197.169	8.642	13.142			0.00
50460.0	205.904	197.262	8.642	13.403			0.00
50470.0	206.000	197.355	8.642	13.667			0.00
50480.0	206.096	197.448	8.642	13.934			0.00
50490.0	206.192	197.541	8.642	14.204			0.00
50500.0	206.288	197.634	8.642	14.477			0.00
50510.0	206.384	197.727	8.642	14.753			0.00
50520.0	206.480	197.820	8.642	15.031			0.00
50530.0	206.576	197.913	8.642	15.312			0.00
50540.0	206.672	198.006	8.642	15.595			0.00
50550.0	206.768	198.099	8.642	15.881			0.00
50560.0	206.864	198.192	8.642	16.169			0.00
50570.0	206.960	198.285	8.642	16.460			0.00
50580.0	207.056	198.378	8.642	16.753			0.00
50590.0	207.152	198.471	8.642	17.049			0.00
50600.0	207.248	198.564	8.642	17.347			0.00
50610.0	207.344	198.657	8.642	17.647			0.00
50620.0	207.440	198.750	8.642	17.949			0.00
50630.0	207.536	198.843	8.642	18.253			0.00
50640.0	207.632	198.936	8.642	18.559			0.00
50650.0	207.728	199.029	8.642	18.867			0.00
50660.0	207.824	199.122	8.642	19.177			0.00
50670.0	207.920	199.215	8.642	19.488			0.00
50680.0	208.016	199.308	8.642	19.801			0.00
50690.0	208.112	199.401	8.642	20.115			0.00
50700.0	208.208	199.494	8.642	20.431			0.00
50710.0	208.304	199.587	8.642	20.748			0.00
50720.0	208.400	199.680	8.642	21.066			0.00
50730.0	208.496	199.773	8.642	21.386			0.00
50740.0	208.592	199.866	8.642	21.707			0.00
50750.0	208.688	199.959	8.642	22.029			0.00
50760.0	208.784	200.052	8.642	22.353			0.00
50770.0	208.880	200.145	8.642	22.678			0.00
50780.0	208.976	200.238	8.642	23.004			0.00
50790.0	209.072	200.331	8.642	23.331			0.00
50800.0	209.168	200.424	8.642	23.659			0.00
50810.0	209.264	200.517	8.642	23.988			0.00
50820.0	209.360	200.610	8.642	24.318			0.00
50830.0	209.456	200.703	8.642	24.649			0.00
50840.0	209.552	200.796	8.642	24.981			0.00
50850.0	209.648	200.889	8.642	25.314			0.00
50860.0	209.744	200.982	8.642	25.648			0.00
50870.0	209.840	201.075	8.642	25.983			0.00
50880.0	209.936	201.168	8.642	26.319			0.00
50890.0	210.032	201.261	8.642	26.656			0.00
50900.0	210.128	201.354	8.642	26.994			0.00
50910.0	210.224	201.447	8.642	27.333			0.00
50920.0	210.320	201.540	8.642	27.673			0.00
50930.0	210.416	201.633	8.642	28.014			0.00
50940.0	210.512	201.726	8.642	28.356			0.00
50950.0	210.608	201.819	8.642	28.699			0.00
50960.0	210.704	201.912	8.642	29.043			0.00
50970.0	210.800	202.005	8.642	29.388			0.00
50980.0	210.896	202.098	8.642	29.734			0.00
50990.0	210.992	202.191	8.642	30.081			0.00
51000.0	211.088	202.284	8.642	30.429			0.00

EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	EX ROW
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

<p>CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)</p>	<p>CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka</p>	<p>SCALE :- Horizontal: 1:2000 Vertical: 1:200</p>	<p>DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM 50+000 TO KM 51+000)</p>	<p>DRAWING No. :- GPCIP-152/BM/EXP/FR/P&P/51 DATE: AUGUST 2018 PREPARED BY: R.K. JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARAMYIK APPROVED BY: S.K. SINHA</p>
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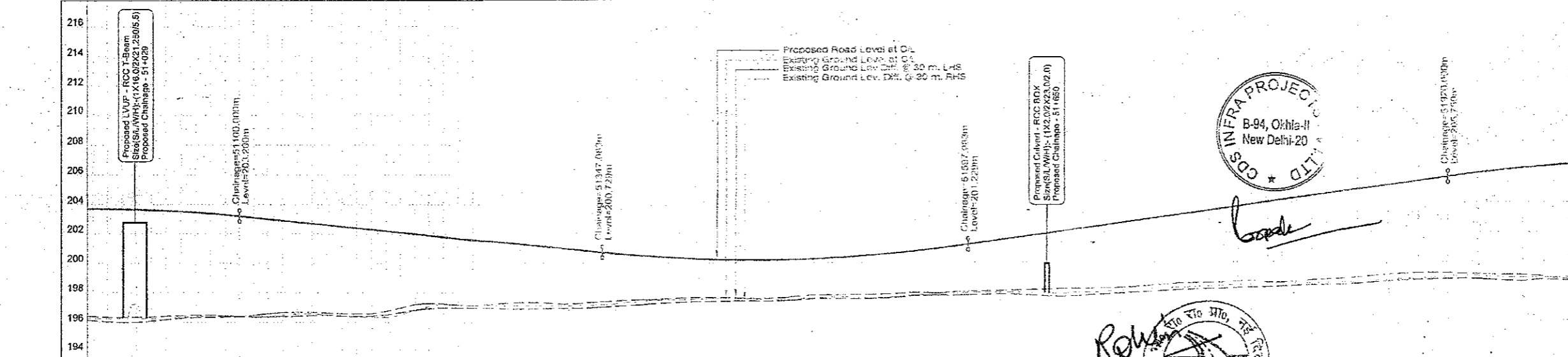
TO SOHNA

TO FIROZPUR JHIRKA



PROPOSED LEGEND

HIP LINE	---
PROP. C/L	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PROP. ROAD LEVEL AT C/L OF C/W	---
Ground/Road Level at C/L of Ex. C/W	---
EXIS. GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIS. GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	---
GRADIENT	G
GRID	---



EXISTING LEGEND

BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFF	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---

Datum	192
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	203.700
GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	192.848
EXISTING GROUND LEVELS DIFF. @ 30M (LHS) FROM C/L	7.322
EXISTING GROUND LEVELS DIFF. @ 30M (RHS) FROM C/L	7.388
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	---
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	---
SUPERELEVATION CROSSFALL (%)	Q=2.5
PROPOSED CHAINAGE (MTR.)	51000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.-21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:- Consultancy Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE :- Horizontal= 1:2000 Vertical= 1:200

DWG TITLE:- PLAN & PROFILE [SOHNA - FIROZPUR JHIRKA] (KM. 51-000 TO KM. 52-000)

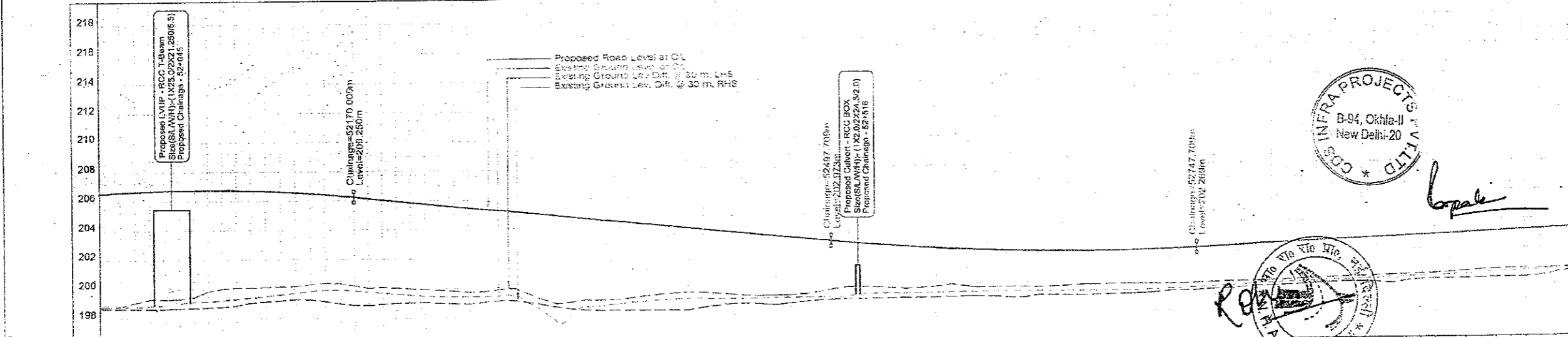
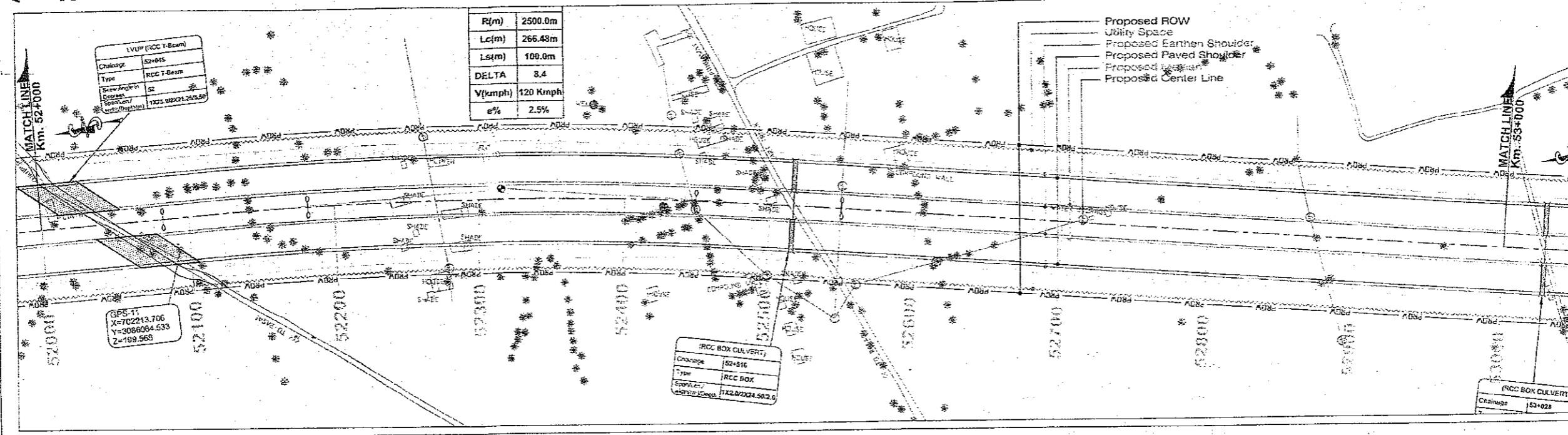
DRAWING No. :- CPC/P-152/BMEXP/FRP&P/52

DATE : AUGUST 2018 **Revision: R0**

PREPARED BY: R. K. JALANDRA **DESIGNED BY:** SANTOSHI **CHECKED BY:** DHARAMVIR **APPROVED BY:** S.K. SINGHA

PROPOSED LEGEND	
HIP LINE	---
PROP. CL	---
MEDIAN	---
EDGE STRIP	---
PROP. CAW	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT C/L OF C/W	---
Ground Road Level at C/L of Ex. C/W	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS)	---
FROM C/L	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS)	---
FROM C/L	---
SUPER ELEVATION	---
GRADIENT	---
GRID	---

EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---



PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT C/L OF EX. C/W (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM C/L (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L (M)	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
206.563	199.332	7.232	7.478			Q=2.5	52000.0
206.621	199.433	7.188	7.541			Q=2.5	52010.0
206.670	199.529	7.141	7.601			Q=2.5	52020.0
206.709	199.621	7.088	7.658			Q=2.5	52030.0
206.739	199.709	7.030	7.713			Q=2.5	52040.0
206.759	199.792	6.967	7.765			Q=2.5	52050.0
206.769	199.871	6.898	7.815			Q=2.5	52060.0
206.770	199.946	6.824	7.862			Q=2.5	52070.0
206.761	199.999	6.762	7.907			Q=2.5	52080.0
206.743	199.999	6.744	7.950			Q=2.5	52090.0
206.715	199.999	6.716	7.991			Q=2.5	52100.0
206.677	199.999	6.678	8.030			Q=2.5	52110.0
206.630	199.999	6.631	8.067			Q=2.5	52120.0
206.573	199.999	6.574	8.102			Q=2.5	52130.0
206.507	199.999	6.508	8.135			Q=2.5	52140.0
206.431	199.999	6.432	8.166			Q=2.5	52150.0
206.345	199.999	6.346	8.195			Q=2.5	52160.0
206.250	199.999	6.251	8.222			Q=2.5	52170.0
206.150	199.999	6.151	8.247			Q=2.5	52180.0
206.040	199.999	6.040	8.270			Q=2.5	52190.0
205.920	199.999	5.920	8.291			Q=2.5	52200.0
205.800	199.999	5.800	8.309			Q=2.5	52210.0
205.675	199.999	5.675	8.324			Q=2.5	52220.0
205.550	199.999	5.550	8.337			Q=2.5	52230.0
205.425	199.999	5.425	8.348			Q=2.5	52240.0
205.300	199.999	5.300	8.357			Q=2.5	52250.0
205.175	199.999	5.175	8.364			Q=2.5	52260.0
205.050	199.999	5.050	8.369			Q=2.5	52270.0
204.925	199.999	4.925	8.372			Q=2.5	52280.0
204.800	199.999	4.800	8.374			Q=2.5	52290.0
204.675	199.999	4.675	8.374			Q=2.5	52300.0
204.550	199.999	4.550	8.372			Q=2.5	52310.0
204.425	199.999	4.425	8.368			Q=2.5	52320.0
204.300	199.999	4.300	8.362			Q=2.5	52330.0
204.175	199.999	4.175	8.354			Q=2.5	52340.0
204.050	199.999	4.050	8.344			Q=2.5	52350.0
203.925	199.999	3.925	8.332			Q=2.5	52360.0
203.800	199.999	3.800	8.318			Q=2.5	52370.0
203.675	199.999	3.675	8.302			Q=2.5	52380.0
203.550	199.999	3.550	8.284			Q=2.5	52390.0
203.425	199.999	3.425	8.264			Q=2.5	52400.0
203.300	199.999	3.300	8.242			Q=2.5	52410.0
203.175	199.999	3.175	8.218			Q=2.5	52420.0
203.050	199.999	3.050	8.192			Q=2.5	52430.0
202.925	199.999	2.925	8.164			Q=2.5	52440.0
202.800	199.999	2.800	8.134			Q=2.5	52450.0
202.675	199.999	2.675	8.102			Q=2.5	52460.0
202.550	199.999	2.550	8.068			Q=2.5	52470.0
202.425	199.999	2.425	8.032			Q=2.5	52480.0
202.300	199.999	2.300	7.994			Q=2.5	52490.0
202.175	199.999	2.175	7.954			Q=2.5	52500.0
202.050	199.999	2.050	7.912			Q=2.5	52510.0
201.925	199.999	1.925	7.868			Q=2.5	52520.0
201.800	199.999	1.800	7.822			Q=2.5	52530.0
201.675	199.999	1.675	7.774			Q=2.5	52540.0
201.550	199.999	1.550	7.724			Q=2.5	52550.0
201.425	199.999	1.425	7.672			Q=2.5	52560.0
201.300	199.999	1.300	7.618			Q=2.5	52570.0
201.175	199.999	1.175	7.562			Q=2.5	52580.0
201.050	199.999	1.050	7.504			Q=2.5	52590.0
200.925	199.999	0.925	7.444			Q=2.5	52600.0
200.800	199.999	0.800	7.382			Q=2.5	52610.0
200.675	199.999	0.675	7.318			Q=2.5	52620.0
200.550	199.999	0.550	7.252			Q=2.5	52630.0
200.425	199.999	0.425	7.184			Q=2.5	52640.0
200.300	199.999	0.300	7.114			Q=2.5	52650.0
200.175	199.999	0.175	7.042			Q=2.5	52660.0
200.050	199.999	0.050	6.968			Q=2.5	52670.0
199.925	199.999	0.025	6.892			Q=2.5	52680.0
199.800	199.999	0.000	6.814			Q=2.5	52690.0
199.675	199.999	0.000	6.734			Q=2.5	52700.0
199.550	199.999	0.000	6.652			Q=2.5	52710.0
199.425	199.999	0.000	6.568			Q=2.5	52720.0
199.300	199.999	0.000	6.482			Q=2.5	52730.0
199.175	199.999	0.000	6.394			Q=2.5	52740.0
199.050	199.999	0.000	6.304			Q=2.5	52750.0
198.925	199.999	0.000	6.212			Q=2.5	52760.0
198.800	199.999	0.000	6.118			Q=2.5	52770.0
198.675	199.999	0.000	6.022			Q=2.5	52780.0
198.550	199.999	0.000	5.924			Q=2.5	52790.0
198.425	199.999	0.000	5.824			Q=2.5	52800.0
198.300	199.999	0.000	5.722			Q=2.5	52810.0
198.175	199.999	0.000	5.618			Q=2.5	52820.0
198.050	199.999	0.000	5.512			Q=2.5	52830.0
197.925	199.999	0.000	5.404			Q=2.5	52840.0
197.800	199.999	0.000	5.294			Q=2.5	52850.0
197.675	199.999	0.000	5.182			Q=2.5	52860.0
197.550	199.999	0.000	5.068			Q=2.5	52870.0
197.425	199.999	0.000	4.952			Q=2.5	52880.0
197.300	199.999	0.000	4.834			Q=2.5	52890.0
197.175	199.999	0.000	4.714			Q=2.5	52900.0
197.050	199.999	0.000	4.592			Q=2.5	52910.0
196.925	199.999	0.000	4.468			Q=2.5	52920.0
196.800	199.999	0.000	4.342			Q=2.5	52930.0
196.675	199.999	0.000	4.214			Q=2.5	52940.0
196.550	199.999	0.000	4.084			Q=2.5	52950.0
196.425	199.999	0.000	3.952			Q=2.5	52960.0
196.300	199.999	0.000	3.818			Q=2.5	52970.0
196.175	199.999	0.000	3.682			Q=2.5	52980.0
196.050	199.999	0.000	3.544			Q=2.5	52990.0
195.925	199.999	0.000	3.404			Q=2.5	53000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K TOWER PLOT NO. - 21-22, SECTOR-4, VAJSHALI, GHAZIABAD PH. : 0120-3223419, 4120472, FAX: 0120-4110472

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SCALE :- Horizontal= 1:2000 Vertical= 1:200

DWG TITLE :- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 52+000 TO KM. 53+000)

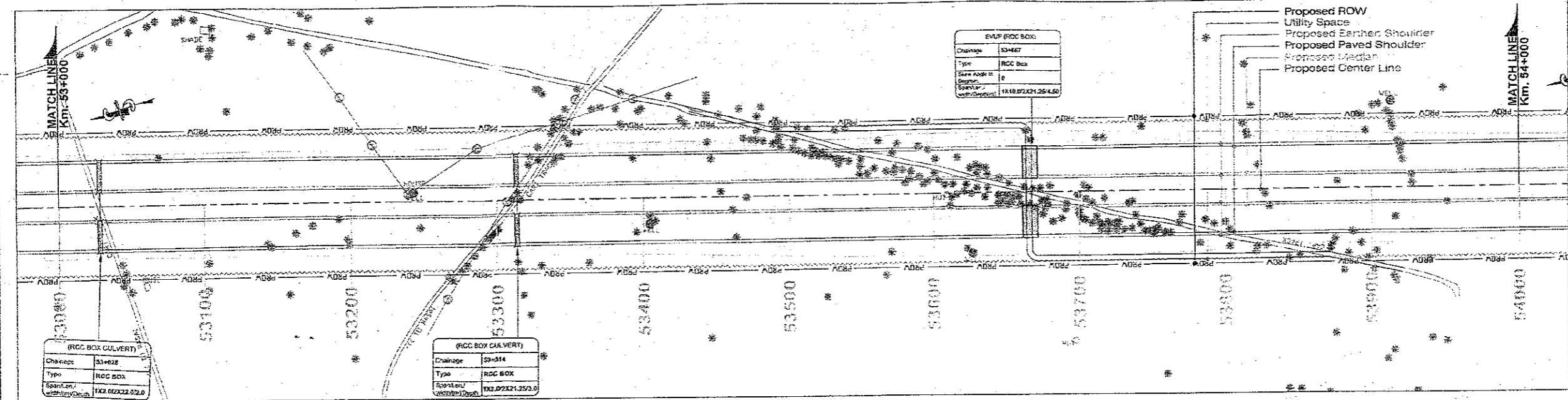
DRAWING No :- 70

DATE : AUGUST 2015 Revision: R0

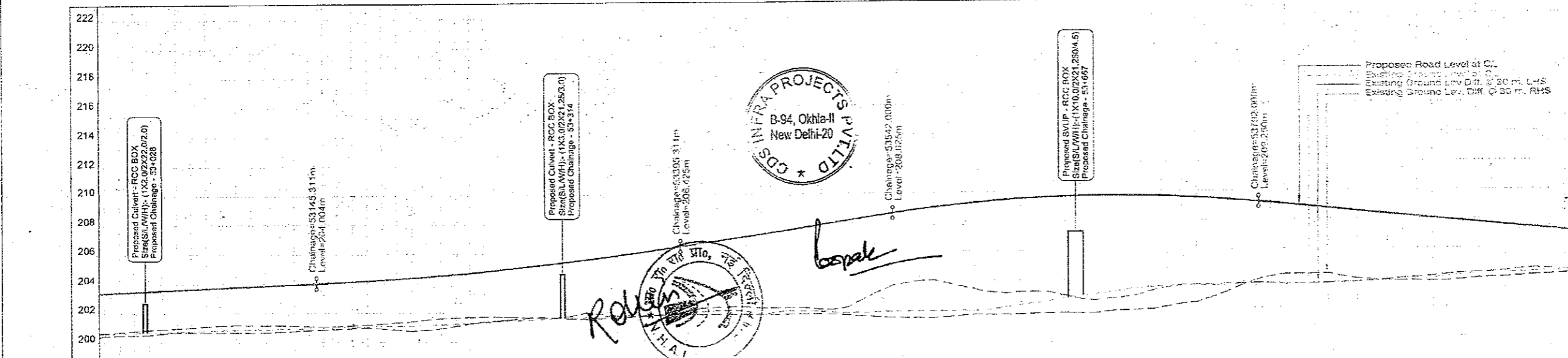
PREPARED BY: R.K. JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARANVAR APPROVED BY: S.K. SINHA

TO SOHNA ←

TO FIROZPUR JHIRKA →



PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex C/W	
EXIST GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIST GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	



EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M LHS FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M RHS FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPER ELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
203.370	216.574	2.170	2.170				53000.0
203.470	216.674	2.204	2.204				53010.0
203.501	216.715	2.214	2.214				53020.0
203.534	216.741	2.207	2.207				53030.0
203.532	216.736	2.204	2.204				53040.0
203.532	216.736	2.204	2.204				53050.0
203.532	216.736	2.204	2.204				53060.0
203.532	216.736	2.204	2.204				53070.0
203.532	216.736	2.204	2.204				53080.0
203.532	216.736	2.204	2.204				53090.0
203.532	216.736	2.204	2.204				53100.0
203.532	216.736	2.204	2.204				53110.0
203.532	216.736	2.204	2.204				53120.0
203.532	216.736	2.204	2.204				53130.0
203.532	216.736	2.204	2.204				53140.0
203.532	216.736	2.204	2.204				53150.0
203.532	216.736	2.204	2.204				53160.0
203.532	216.736	2.204	2.204				53170.0
203.532	216.736	2.204	2.204				53180.0
203.532	216.736	2.204	2.204				53190.0
203.532	216.736	2.204	2.204				53200.0
203.532	216.736	2.204	2.204				53210.0
203.532	216.736	2.204	2.204				53220.0
203.532	216.736	2.204	2.204				53230.0
203.532	216.736	2.204	2.204				53240.0
203.532	216.736	2.204	2.204				53250.0
203.532	216.736	2.204	2.204				53260.0
203.532	216.736	2.204	2.204				53270.0
203.532	216.736	2.204	2.204				53280.0
203.532	216.736	2.204	2.204				53290.0
203.532	216.736	2.204	2.204				53300.0
203.532	216.736	2.204	2.204				53310.0
203.532	216.736	2.204	2.204				53320.0
203.532	216.736	2.204	2.204				53330.0
203.532	216.736	2.204	2.204				53340.0
203.532	216.736	2.204	2.204				53350.0
203.532	216.736	2.204	2.204				53360.0
203.532	216.736	2.204	2.204				53370.0
203.532	216.736	2.204	2.204				53380.0
203.532	216.736	2.204	2.204				53390.0
203.532	216.736	2.204	2.204				53400.0
203.532	216.736	2.204	2.204				53410.0
203.532	216.736	2.204	2.204				53420.0
203.532	216.736	2.204	2.204				53430.0
203.532	216.736	2.204	2.204				53440.0
203.532	216.736	2.204	2.204				53450.0
203.532	216.736	2.204	2.204				53460.0
203.532	216.736	2.204	2.204				53470.0
203.532	216.736	2.204	2.204				53480.0
203.532	216.736	2.204	2.204				53490.0
203.532	216.736	2.204	2.204				53500.0
203.532	216.736	2.204	2.204				53510.0
203.532	216.736	2.204	2.204				53520.0
203.532	216.736	2.204	2.204				53530.0
203.532	216.736	2.204	2.204				53540.0
203.532	216.736	2.204	2.204				53550.0
203.532	216.736	2.204	2.204				53560.0
203.532	216.736	2.204	2.204				53570.0
203.532	216.736	2.204	2.204				53580.0
203.532	216.736	2.204	2.204				53590.0
203.532	216.736	2.204	2.204				53600.0
203.532	216.736	2.204	2.204				53610.0
203.532	216.736	2.204	2.204				53620.0
203.532	216.736	2.204	2.204				53630.0
203.532	216.736	2.204	2.204				53640.0
203.532	216.736	2.204	2.204				53650.0
203.532	216.736	2.204	2.204				53660.0
203.532	216.736	2.204	2.204				53670.0
203.532	216.736	2.204	2.204				53680.0
203.532	216.736	2.204	2.204				53690.0
203.532	216.736	2.204	2.204				53700.0
203.532	216.736	2.204	2.204				53710.0
203.532	216.736	2.204	2.204				53720.0
203.532	216.736	2.204	2.204				53730.0
203.532	216.736	2.204	2.204				53740.0
203.532	216.736	2.204	2.204				53750.0
203.532	216.736	2.204	2.204				53760.0
203.532	216.736	2.204	2.204				53770.0
203.532	216.736	2.204	2.204				53780.0
203.532	216.736	2.204	2.204				53790.0
203.532	216.736	2.204	2.204				53800.0
203.532	216.736	2.204	2.204				53810.0
203.532	216.736	2.204	2.204				53820.0
203.532	216.736	2.204	2.204				53830.0
203.532	216.736	2.204	2.204				53840.0
203.532	216.736	2.204	2.204				53850.0
203.532	216.736	2.204	2.204				53860.0
203.532	216.736	2.204	2.204				53870.0
203.532	216.736	2.204	2.204				53880.0
203.532	216.736	2.204	2.204				53890.0
203.532	216.736	2.204	2.204				53900.0
203.532	216.736	2.204	2.204				53910.0
203.532	216.736	2.204	2.204				53920.0
203.532	216.736	2.204	2.204				53930.0
203.532	216.736	2.204	2.204				53940.0
203.532	216.736	2.204	2.204				53950.0
203.532	216.736	2.204	2.204				53960.0
203.532	216.736	2.204	2.204				53970.0
203.532	216.736	2.204	2.204				53980.0
203.532	216.736	2.204	2.204				53990.0
203.532	216.736	2.204	2.204				54000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

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PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE :- Horizontal= 1:2000 Vertical= 1:200

DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 53+000 TO KM. 54+000)

DRAWING No. :- CPC/P-152/BWEXP/JR/F&P/154

DATE : AUGUST 2018 Revision: R0

PREPARED BY: R.K. JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DILARAM IYER APPROVED BY: S.K. SINHA

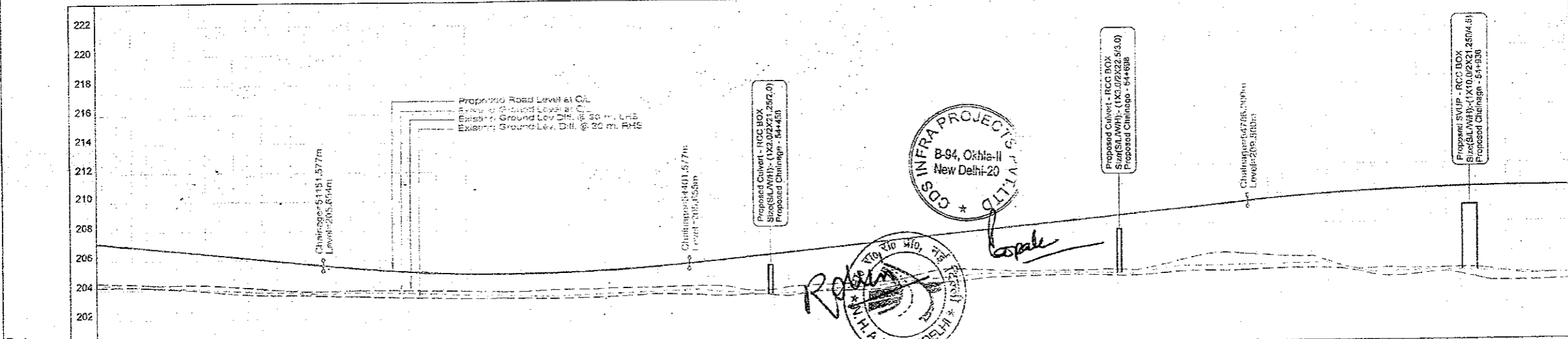
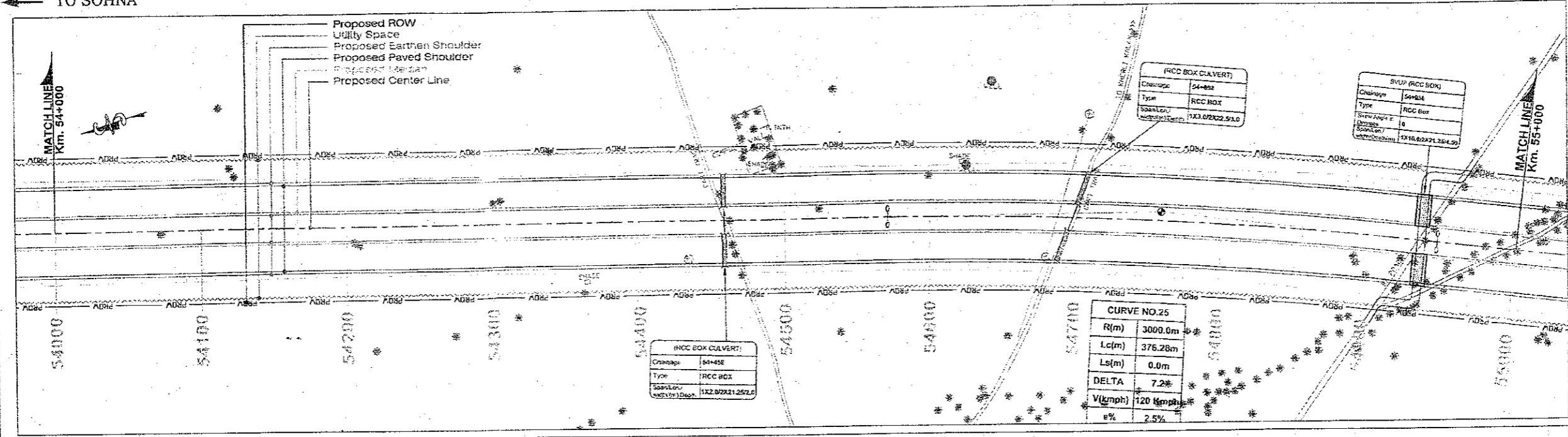
TO SOHNA ← TO FIROZPUR JHIRKA →

PROPOSED LEGEND

HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. CW	
PROP. ES	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT CL OF CW	
Ground Road Level at CL of Ex. CW	
EXIST. GROUND LEV. DIFF. @ 30 M (LHS)	
FROM CL	
EXIST. GROUND LEV. DIFF. @ 30 M (RHS)	
FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	EXISTING GROUND LEVEL AT CL OF EX. CW (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM CL (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (RHS) FROM CL (M)	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
207.170	207.304	2.879	2.879				54000.0
207.070	207.376	2.855	2.855				54010.0
206.970	207.302	2.767	2.767				54020.0
206.870	206.679	2.694	2.694				54030.0
206.770	206.770	2.643	2.643				54040.0
206.670	206.770	2.232	2.232				54050.0
206.470	206.670	2.251	2.251				54060.0
206.370	206.370	2.249	2.249				54070.0
206.270	206.270	2.252	2.252				54080.0
206.170	206.170	2.241	2.241				54090.0
206.070	206.070	2.244	2.244				54100.0
205.970	205.970	2.241	2.241				54110.0
205.870	205.870	2.240	2.240				54120.0
205.770	205.770	2.242	2.242				54130.0
205.670	205.670	2.240	2.240				54140.0
205.573	205.573	2.240	2.240				54150.0
205.484	205.484	1.843	1.843				54160.0
205.402	205.402	1.894	1.894				54170.0
205.328	205.328	1.849	1.849				54180.0
205.264	205.264	1.799	1.799				54190.0
205.207	205.207	1.769	1.769				54200.0
205.157	205.157	1.728	1.728				54210.0
205.116	205.116	1.700	1.700				54220.0
205.083	205.083	1.693	1.693				54230.0
205.038	205.038	1.672	1.672				54240.0
205.000	205.000	1.660	1.660				54250.0
204.954	204.954	1.641	1.641				54260.0
204.908	204.908	1.631	1.631				54270.0
204.864	204.864	1.623	1.623				54280.0
204.812	204.812	1.616	1.616				54290.0
204.762	204.762	1.611	1.611				54300.0
204.714	204.714	1.603	1.603				54310.0
204.668	204.668	1.596	1.596				54320.0
204.624	204.624	1.590	1.590				54330.0
204.581	204.581	1.584	1.584				54340.0
204.540	204.540	1.579	1.579				54350.0
204.500	204.500	1.574	1.574				54360.0
204.461	204.461	1.570	1.570				54370.0
204.424	204.424	1.567	1.567				54380.0
204.388	204.388	1.565	1.565				54390.0
204.354	204.354	1.563	1.563				54400.0
204.321	204.321	1.562	1.562				54410.0
204.290	204.290	1.561	1.561				54420.0
204.260	204.260	1.560	1.560				54430.0
204.231	204.231	1.559	1.559				54440.0
204.203	204.203	1.558	1.558				54450.0
204.176	204.176	1.557	1.557				54460.0
204.150	204.150	1.556	1.556				54470.0
204.125	204.125	1.555	1.555				54480.0
204.100	204.100	1.554	1.554				54490.0
204.076	204.076	1.553	1.553				54500.0
204.053	204.053	1.552	1.552				54510.0
204.031	204.031	1.551	1.551				54520.0
204.010	204.010	1.550	1.550				54530.0
203.990	203.990	1.549	1.549				54540.0
203.970	203.970	1.548	1.548				54550.0
203.950	203.950	1.547	1.547				54560.0
203.930	203.930	1.546	1.546				54570.0
203.910	203.910	1.545	1.545				54580.0
203.890	203.890	1.544	1.544				54590.0
203.870	203.870	1.543	1.543				54600.0
203.850	203.850	1.542	1.542				54610.0
203.830	203.830	1.541	1.541				54620.0
203.810	203.810	1.540	1.540				54630.0
203.790	203.790	1.539	1.539				54640.0
203.770	203.770	1.538	1.538				54650.0
203.750	203.750	1.537	1.537				54660.0
203.730	203.730	1.536	1.536				54670.0
203.710	203.710	1.535	1.535				54680.0
203.690	203.690	1.534	1.534				54690.0
203.670	203.670	1.533	1.533				54700.0
203.650	203.650	1.532	1.532				54710.0
203.630	203.630	1.531	1.531				54720.0
203.610	203.610	1.530	1.530				54730.0
203.590	203.590	1.529	1.529				54740.0
203.570	203.570	1.528	1.528				54750.0
203.550	203.550	1.527	1.527				54760.0
203.530	203.530	1.526	1.526				54770.0
203.510	203.510	1.525	1.525				54780.0
203.490	203.490	1.524	1.524				54790.0
203.470	203.470	1.523	1.523				54800.0
203.450	203.450	1.522	1.522				54810.0
203.430	203.430	1.521	1.521				54820.0
203.410	203.410	1.520	1.520				54830.0
203.390	203.390	1.519	1.519				54840.0
203.370	203.370	1.518	1.518				54850.0
203.350	203.350	1.517	1.517				54860.0
203.330	203.330	1.516	1.516				54870.0
203.310	203.310	1.515	1.515				54880.0
203.290	203.290	1.514	1.514				54890.0
203.270	203.270	1.513	1.513				54900.0
203.250	203.250	1.512	1.512				54910.0
203.230	203.230	1.511	1.511				54920.0
203.210	203.210	1.510	1.510				54930.0
203.190	203.190	1.509	1.509				54940.0
203.170	203.170	1.508	1.508				54950.0
203.150	203.150	1.507	1.507				54960.0
203.130	203.130	1.506	1.506				54970.0
203.110	203.110	1.505	1.505				54980.0
203.090	203.090	1.504	1.504				54990.0
203.070	203.070	1.503	1.503				55000.0

CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-5/Package-4) of Sohna - Firozpur Jhirka

PROJECT: C-5, 2ND FLOOR, R.K.TOWER PLOT NO.-21-22, SECTOR-4, VAISHALI, GHAZIABAD PH: 0120-3223419, 4120472, FAX: 0120-4110472

SCALE: Horizontal=1:2000 Vertical=1:200

DWG TITLE: PLAN & PROFILE [SOHNA - FIROZPUR JHIRKA] (KM. 54+000 TO KM. 55+000)

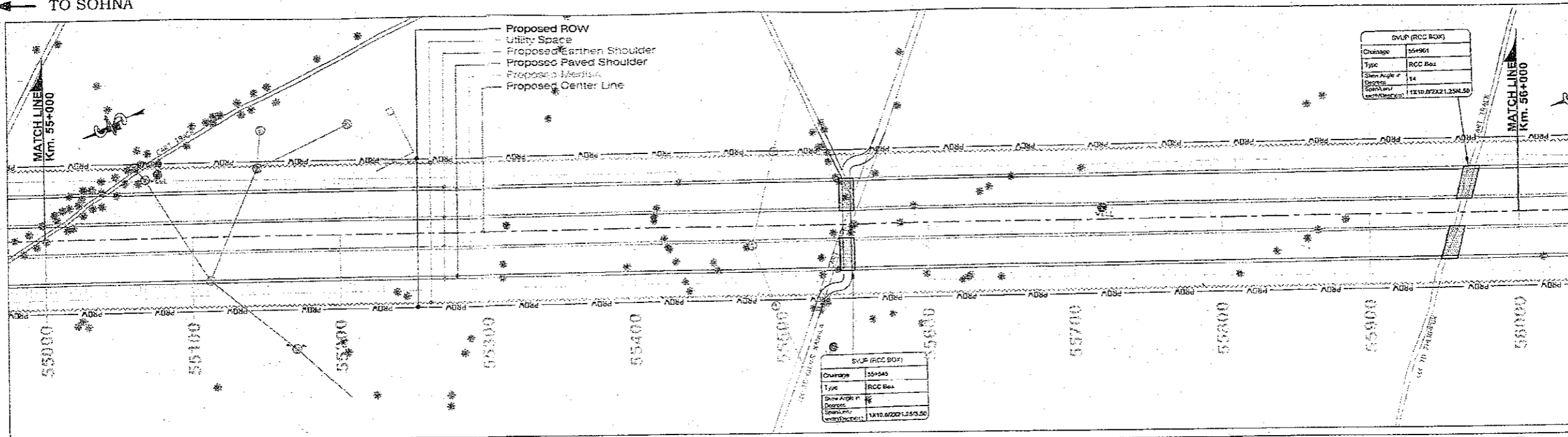
DRAWING No.: C/PCP-152/BM/EXP./FR/P&P/55

DATE: AUGUST 2018 **Revision:** R0

PREPARED BY: R K JALANDRA **DESIGNED BY:** SANTOSH **CHECKED BY:** DHARAMVIR **APPROVED BY:** S K SINHA

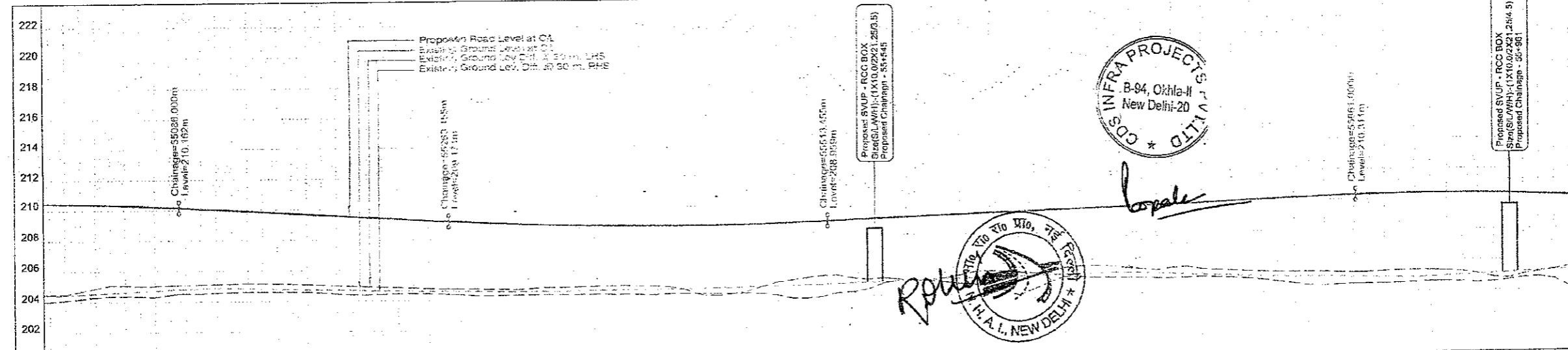
TO FIROZPUR JHIRKA

TO SOHNA

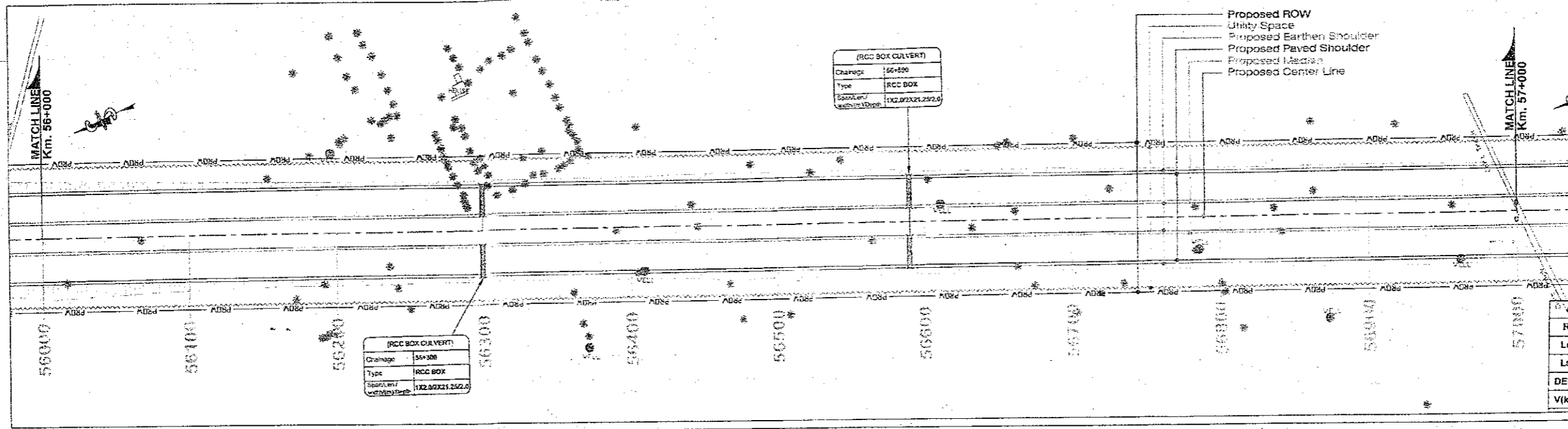


PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF CNW	
Ground/Road Level at C/L of Ex. CNW	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

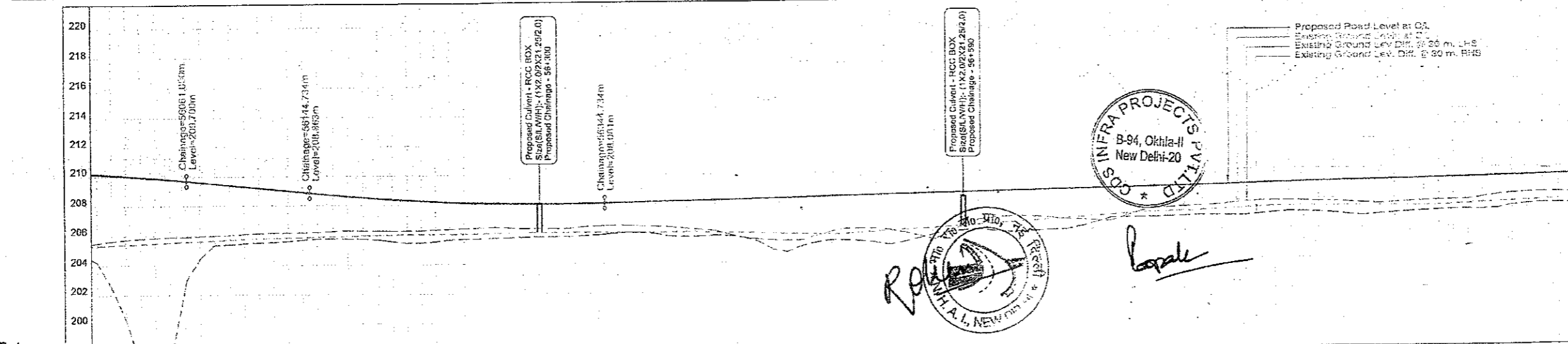
EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	EXISTING GROUND LEVELS DIFF. @ 30 M LHS FROM CL	EXISTING GROUND LEVELS DIFF. @ 30 M RHS FROM CL	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPER ELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
210.450	5.971	6.428				55000.0
210.437	5.926	6.340				55010.0
210.418	5.876	6.216				55020.0
210.393	5.805	6.065				55030.0
210.364	5.722	5.902				55040.0
210.330	5.627	5.709				55050.0
210.290	5.521	5.504				55060.0
210.195	5.404	5.287				55070.0
210.140	5.275	5.054				55080.0
210.084	5.133	4.804				55090.0
210.028	4.979	4.539				55100.0
209.916	4.813	4.262				55110.0
209.801	4.635	3.974				55120.0
209.681	4.447	3.674				55130.0
209.556	4.249	3.362				55140.0
209.427	4.042	3.039				55150.0
209.293	3.826	2.705				55160.0
209.155	3.601	2.360				55170.0
209.012	3.367	2.005				55180.0
208.864	3.125	1.640				55190.0
208.712	2.875	1.265				55200.0
208.556	2.618	0.880				55210.0
208.395	2.354	0.485				55220.0
208.230	2.083	0.080				55230.0
208.061	1.806	-0.325				55240.0
207.888	1.523	-0.730				55250.0
207.712	1.234	-1.125				55260.0
207.533	0.939	-1.510				55270.0
207.350	0.638	-1.885				55280.0
207.163	0.331	-2.250				55290.0
206.972	0.019	-2.605				55300.0
206.777	-0.298	-2.950				55310.0
206.578	-0.609	-3.285				55320.0
206.375	-0.914	-3.610				55330.0
206.168	-1.213	-3.925				55340.0
205.957	-1.506	-4.230				55350.0
205.742	-1.793	-4.525				55360.0
205.523	-2.074	-4.810				55370.0
205.300	-2.349	-5.085				55380.0
205.073	-2.618	-5.350				55390.0
204.842	-2.881	-5.605				55400.0
204.607	-3.138	-5.850				55410.0
204.368	-3.389	-6.085				55420.0
204.125	-3.634	-6.310				55430.0
203.878	-3.873	-6.525				55440.0
203.627	-4.106	-6.730				55450.0
203.372	-4.333	-6.925				55460.0
203.113	-4.554	-7.110				55470.0
202.850	-4.769	-7.285				55480.0
202.583	-4.968	-7.450				55490.0
202.312	-5.161	-7.605				55500.0
202.037	-5.348	-7.750				55510.0
201.758	-5.530	-7.885				55520.0
201.475	-5.707	-8.010				55530.0
201.188	-5.879	-8.125				55540.0
200.897	-6.046	-8.230				55550.0
200.602	-6.208	-8.325				55560.0
200.303	-6.365	-8.410				55570.0
200.000	-6.517	-8.485				55580.0
199.693	-6.664	-8.550				55590.0
199.382	-6.806	-8.605				55600.0
199.067	-6.943	-8.650				55610.0
198.748	-7.075	-8.685				55620.0
198.425	-7.202	-8.710				55630.0
198.098	-7.324	-8.725				55640.0
197.767	-7.441	-8.730				55650.0
197.432	-7.553	-8.725				55660.0
197.093	-7.660	-8.710				55670.0
196.750	-7.762	-8.685				55680.0
196.403	-7.859	-8.650				55690.0
196.052	-7.951	-8.605				55700.0
195.697	-8.038	-8.550				55710.0
195.338	-8.120	-8.485				55720.0
194.975	-8.197	-8.410				55730.0
194.608	-8.269	-8.325				55740.0
194.237	-8.336	-8.230				55750.0
193.862	-8.398	-8.125				55760.0
193.483	-8.455	-8.010				55770.0
193.100	-8.507	-7.885				55780.0
192.713	-8.554	-7.750				55790.0
192.322	-8.596	-7.605				55800.0
191.927	-8.633	-7.450				55810.0
191.528	-8.665	-7.285				55820.0
191.125	-8.692	-7.110				55830.0
190.718	-8.714	-6.925				55840.0
190.307	-8.731	-6.730				55850.0
189.892	-8.743	-6.525				55860.0
189.473	-8.750	-6.310				55870.0
189.050	-8.752	-6.085				55880.0
188.623	-8.749	-5.850				55890.0
188.192	-8.741	-5.605				55900.0
187.757	-8.728	-5.350				55910.0
187.318	-8.710	-5.085				55920.0
186.875	-8.687	-4.810				55930.0
186.428	-8.660	-4.525				55940.0
185.977	-8.628	-4.230				55950.0
185.522	-8.591	-3.925				55960.0
185.063	-8.549	-3.610				55970.0
184.600	-8.502	-3.285				55980.0
184.133	-8.450	-2.950				55990.0
183.662	-8.393	-2.605				56000.0
183.187	-8.331	-2.250				56010.0
182.708	-8.264	-1.885				56020.0
182.225	-8.192	-1.510				56030.0
181.738	-8.115	-1.125				56040.0
181.247	-8.033	-0.730				56050.0
180.752	-7.946	-0.325				56060.0
180.253	-7.854	0.080				56070.0
179.750	-7.757	0.485				56080.0
179.243	-7.655	0.880				56090.0
178.732	-7.548	1.265				56100.0
178.217	-7.436	1.640				56110.0
177.700	-7.319	2.005				56120.0
177.179	-7.197	2.360				56130.0
176.654	-7.070	2.705				56140.0
176.125	-6.938	3.039				56150.0
175.592	-6.801	3.362				56160.0
175.055	-6.659	3.674				56170.0
174.514	-6.512	3.974				56180.0
173.969	-6.360	4.262				56190.0
173.420	-6.203	4.539				56200.0
172.867	-6.041	4.804				56210.0
172.310	-5.874	5.054				56220.0
171.750	-5.702	5.287				56230.0
171.187	-5.525	5.504				56240.0
170.621	-5.343	5.709				56250.0
170.052	-5.156	5.899				56260.0
169.480	-4.964	6.074				56270.0
168.905	-4.767	6.234				56280.0
168.327	-4.565	6.379				56290.0
167.746	-4.358	6.509				56300.0
167.162	-4.146	6.624				56310.0
166.575	-3.929	6.724				56320.0
165.985	-3.707	6.809				56330.0
165.392	-3.480	6.879				56340.0
164.797	-3.248	6.934				56350.0
164.200	-3.011	6.974				56360.0
163.601	-2.769	7.000				56370.0
163.000	-2.522	7.012				56380.0
162.397	-2.270	7.010				56390.0
161.792	-2.013	7.000				56400.0
161.185	-1.751	6.985				56410.0
160.576	-1.484	6.965				56420.0
159.965	-1.212	6.940				56430.0
159.352	-0.935	6.910				56440.0
158.737	-0.653	6.875				56450.0
158.120	-0.366	6.835				56460.0
157.501	-0.073	6.790				56470.0
156.880	0.216	6.740				56480.0
156.257	0.509	6.685				56490.0
155.632	0.807	6.625				56500.0
155.005	1.110	6.560				56510.0
154.376	1.418	6.490				56520.0
153.745	1.731	6.415				56530.0
153.112	2.049	6.335				56540.0
152.477	2.372	6.250				56550.0
151.840	2.700	6.160				56560.0
151.201	3.033	6.065				56570.0
150.560	3.371	5.965				56580.0
149.917	3.714	5.860				56590.0
149.272	4.061	5.750				56600.0
148.625	4.412	5.635				56610.0
147.976	4.767	5.515				56620.0
147.325	5.125	5.390				56630.0
146.672	5.486	5.260				56640.0
146.017	5.849	5.125				56650.0
145.360	6.214	4.985				56660.0
144.701	6.581	4.835				56670.0
144.040	6.950	4.680				56680.0
143.377						



PROPOSED LEGEND	
HIP LINE	---
PROP. C/L	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT C/L OF C/W	---
Ground/Road Level at C/L of Ex.C/W	---
EXIST GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIST GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	---
GRADIENT	---
GRID	---



EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
RCW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---

PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	PROPOSED ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVEL DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
210.120	206.000	4.081	5.077				56000.0
210.120	205.300	4.194	7.570				56010.0
210.082	205.400	4.321	9.292				56020.0
209.977	205.465	4.470	12.761				56030.0
209.895	205.463	4.634	13.732				56040.0
209.805	205.500	3.890	13.398				56050.0
209.610	205.573	3.791	7.189				56060.0
209.510	205.564	3.559	5.173				56070.0
209.410	205.503	3.523	4.157				56080.0
209.310	205.424	3.386	3.006				56090.0
209.210	205.378	3.069	3.707				56100.0
209.110	205.305	2.983	3.675				56120.0
209.010	205.200	2.930	3.403				56130.0
208.910	205.000	2.745	3.230				56140.0
208.811	204.902	2.629	3.066				56150.0
208.717	204.787	2.464	2.844				56160.0
208.629	204.653	2.315	2.653				56170.0
208.548	204.501	2.257	2.502				56180.0
208.472	204.378	2.198	2.400				56190.0
208.403	204.280	2.123	2.332				56200.0
208.340	204.201	2.075	2.307				56210.0
208.283	204.148	1.993	2.289				56220.0
208.190	204.115	1.812	2.247				56230.0
208.148	204.115	1.647	2.386				56240.0
208.115	204.115	1.647	2.386				56250.0
208.115	204.115	1.647	2.386				56260.0
208.115	204.115	1.647	2.386				56270.0
208.115	204.115	1.647	2.386				56280.0
208.115	204.115	1.647	2.386				56290.0
208.115	204.115	1.647	2.386				56300.0
208.115	204.115	1.647	2.386				56310.0
208.115	204.115	1.647	2.386				56320.0
208.115	204.115	1.647	2.386				56330.0
208.115	204.115	1.647	2.386				56340.0
208.115	204.115	1.647	2.386				56350.0
208.115	204.115	1.647	2.386				56360.0
208.115	204.115	1.647	2.386				56370.0
208.115	204.115	1.647	2.386				56380.0
208.115	204.115	1.647	2.386				56390.0
208.115	204.115	1.647	2.386				56400.0
208.115	204.115	1.647	2.386				56410.0
208.115	204.115	1.647	2.386				56420.0
208.115	204.115	1.647	2.386				56430.0
208.115	204.115	1.647	2.386				56440.0
208.115	204.115	1.647	2.386				56450.0
208.115	204.115	1.647	2.386				56460.0
208.115	204.115	1.647	2.386				56470.0
208.115	204.115	1.647	2.386				56480.0
208.115	204.115	1.647	2.386				56490.0
208.115	204.115	1.647	2.386				56500.0
208.115	204.115	1.647	2.386				56510.0
208.115	204.115	1.647	2.386				56520.0
208.115	204.115	1.647	2.386				56530.0
208.115	204.115	1.647	2.386				56540.0
208.115	204.115	1.647	2.386				56550.0
208.115	204.115	1.647	2.386				56560.0
208.115	204.115	1.647	2.386				56570.0
208.115	204.115	1.647	2.386				56580.0
208.115	204.115	1.647	2.386				56590.0
208.115	204.115	1.647	2.386				56600.0
208.115	204.115	1.647	2.386				56610.0
208.115	204.115	1.647	2.386				56620.0
208.115	204.115	1.647	2.386				56630.0
208.115	204.115	1.647	2.386				56640.0
208.115	204.115	1.647	2.386				56650.0
208.115	204.115	1.647	2.386				56660.0
208.115	204.115	1.647	2.386				56670.0
208.115	204.115	1.647	2.386				56680.0
208.115	204.115	1.647	2.386				56690.0
208.115	204.115	1.647	2.386				56700.0
208.115	204.115	1.647	2.386				56710.0
208.115	204.115	1.647	2.386				56720.0
208.115	204.115	1.647	2.386				56730.0
208.115	204.115	1.647	2.386				56740.0
208.115	204.115	1.647	2.386				56750.0
208.115	204.115	1.647	2.386				56760.0
208.115	204.115	1.647	2.386				56770.0
208.115	204.115	1.647	2.386				56780.0
208.115	204.115	1.647	2.386				56790.0
208.115	204.115	1.647	2.386				56800.0
208.115	204.115	1.647	2.386				56810.0
208.115	204.115	1.647	2.386				56820.0
208.115	204.115	1.647	2.386				56830.0
208.115	204.115	1.647	2.386				56840.0
208.115	204.115	1.647	2.386				56850.0
208.115	204.115	1.647	2.386				56860.0
208.115	204.115	1.647	2.386				56870.0
208.115	204.115	1.647	2.386				56880.0
208.115	204.115	1.647	2.386				56890.0
208.115	204.115	1.647	2.386				56900.0
208.115	204.115	1.647	2.386				56910.0
208.115	204.115	1.647	2.386				56920.0
208.115	204.115	1.647	2.386				56930.0
208.115	204.115	1.647	2.386				56940.0
208.115	204.115	1.647	2.386				56950.0
208.115	204.115	1.647	2.386				56960.0
208.115	204.115	1.647	2.386				56970.0
208.115	204.115	1.647	2.386				56980.0
208.115	204.115	1.647	2.386				56990.0
208.115	204.115	1.647	2.386				57000.0

CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO. 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT: Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE: Horizontal= 1:2000 Vertical= 1:200

DWG TITLE: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM 56+000 TO KM 57+000)

DRAWING No: 74

DATE: AUGUST 2016

PREPARED BY: R.K. JALANDRA

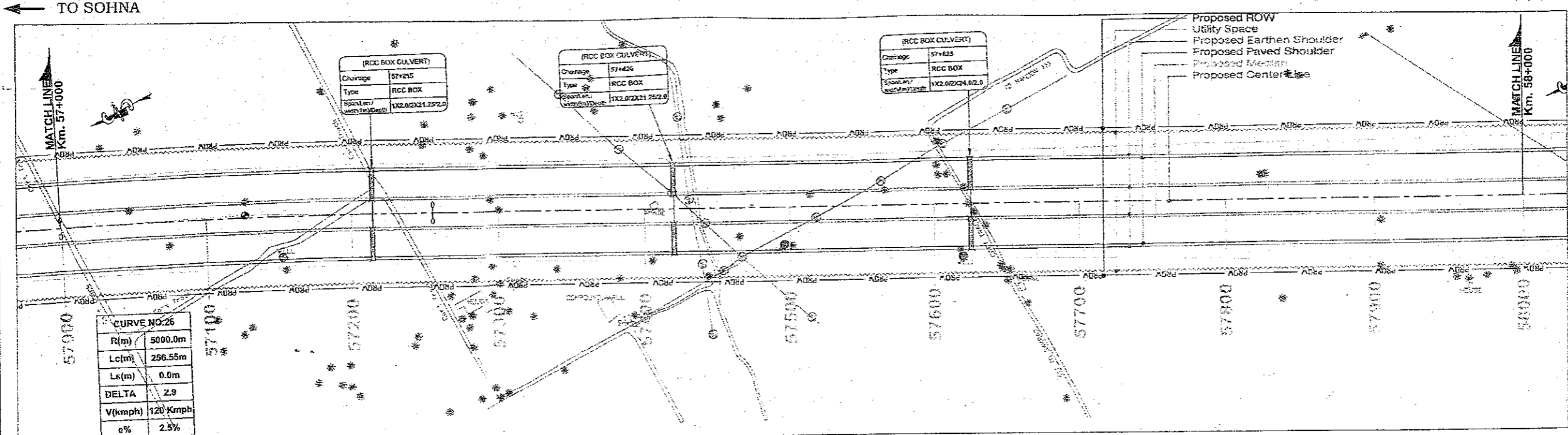
DESIGNED BY: SANTOSH

CHECKED BY: DHARAMYAR

APPROVED BY: S.K. SINHA

Revision: R0

CPC/P-152/BM/EXP/JRP/P/57



CURVE NO. 26

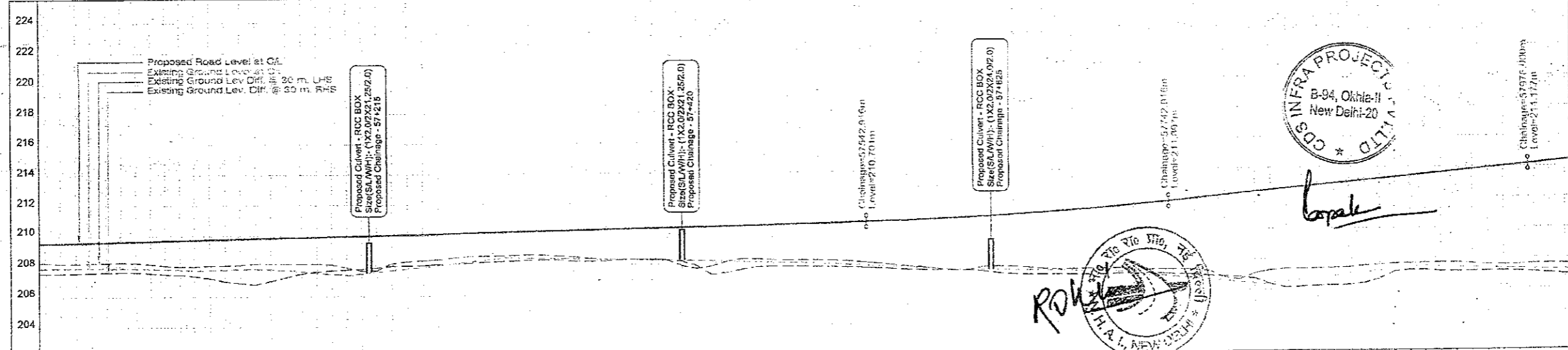
R(m)	5000.0m
Lc(m)	256.55m
Ls(m)	0.0m
DELTA	2.9
V(kmph)	120 Kmph
e%	2.5%

PROPOSED LEGEND

HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex. C/W	
EXIST. GROUND LEV. DIFF. @ 30 M (LHS)	
EXIST. GROUND LEV. DIFF. @ 30 M (RHS)	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



Datum	202
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	207.867, 208.536, 209.205, 209.874, 209.543, 209.212, 208.881, 208.550, 208.219, 207.888, 207.557, 207.226, 206.895, 206.564, 206.233, 205.902, 205.571, 205.240, 204.909, 204.578, 204.247, 203.916, 203.585, 203.254, 202.923, 202.592, 202.261, 201.930, 201.599, 201.268, 200.937, 200.606, 200.275, 199.944, 199.613, 199.282, 198.951, 198.620, 198.289, 197.958, 197.627, 197.296, 196.965, 196.634, 196.303, 195.972, 195.641, 195.310, 194.979, 194.648, 194.317, 193.986, 193.655, 193.324, 192.993, 192.662, 192.331, 191.999, 191.668, 191.337, 191.006, 190.675, 190.344, 190.013, 190.682, 190.351, 190.020, 190.689, 190.358, 190.027, 190.696, 190.365, 190.034, 190.703, 190.372, 190.041, 190.712, 190.381, 190.050, 190.721, 190.389, 190.059, 190.730, 190.398, 190.068, 190.741, 190.407, 190.077, 190.752, 190.416, 190.086, 190.763, 190.425, 190.095, 190.774, 190.434, 190.104, 190.785, 190.443, 190.113, 190.796, 190.452, 190.122, 190.807, 190.461, 190.131, 190.818, 190.470, 190.140, 190.829, 190.479, 190.149, 190.840, 190.488, 190.158, 190.851, 190.497, 190.167, 190.862, 190.506, 190.176, 190.873, 190.515, 190.185, 190.884, 190.524, 190.194, 190.895, 190.533, 190.203, 190.906, 190.542, 190.212, 190.917, 190.551, 190.221, 190.928, 190.560, 190.230, 190.939, 190.569, 190.239, 190.950, 190.578, 190.248, 190.961, 190.587, 190.257, 190.972, 190.596, 190.266, 190.983, 190.605, 190.275, 190.994, 190.614, 190.284, 191.005, 190.623, 191.014, 190.293, 191.016, 190.632, 191.025, 190.302, 191.027, 190.641, 191.036, 190.311, 191.038, 190.650, 191.045, 190.320, 191.049, 190.659, 191.054, 190.329, 191.058, 190.668, 191.063, 190.338, 191.067, 190.677, 191.072, 190.347, 191.076, 190.686, 191.081, 190.356, 191.085, 190.695, 191.090, 190.365, 191.094, 190.704, 191.103, 190.713, 191.112, 190.722, 191.121, 190.731, 191.130, 190.740, 191.139, 190.749, 191.148, 190.758, 191.157, 190.767, 191.166, 190.776, 191.175, 190.785, 191.184, 190.794, 191.193, 190.803, 191.202, 190.812, 191.211, 190.821, 191.220, 190.830, 191.229, 190.839, 191.238, 190.848, 191.247, 190.857, 191.256, 190.866, 191.265, 190.875, 191.274, 190.884, 191.283, 190.893, 191.292, 190.902, 191.301, 190.911, 191.310, 190.920, 191.319, 190.929, 191.328, 190.938, 191.337, 190.947, 191.346, 190.956, 191.355, 190.965, 191.364, 190.974, 191.373, 190.983, 191.382, 190.992, 191.391, 191.001, 191.400, 191.010, 191.409, 191.019, 191.418, 191.028, 191.427, 191.037, 191.436, 191.046, 191.445, 191.055, 191.454, 191.064, 191.463, 191.073, 191.472, 191.082, 191.481, 191.091, 191.490, 191.100, 191.499, 191.109, 191.508, 191.118, 191.517, 191.127, 191.526, 191.136, 191.535, 191.145, 191.544, 191.154, 191.553, 191.163, 191.562, 191.172, 191.571, 191.181, 191.580, 191.190, 191.589, 191.199, 191.598, 191.208, 191.607, 191.217, 191.616, 191.226, 191.625, 191.235, 191.634, 191.244, 191.643, 191.253, 191.652, 191.262, 191.661, 191.271, 191.670, 191.280, 191.679, 191.289, 191.688, 191.298, 191.697, 191.307, 191.706, 191.316, 191.715, 191.325, 191.724, 191.334, 191.733, 191.343, 191.742, 191.352, 191.751, 191.361, 191.760, 191.370, 191.769, 191.379, 191.778, 191.388, 191.787, 191.397, 191.796, 191.406, 191.805, 191.415, 191.814, 191.424, 191.823, 191.433, 191.832, 191.442, 191.841, 191.451, 191.850, 191.460, 191.859, 191.469, 191.868, 191.478, 191.877, 191.487, 191.886, 191.496, 191.895, 191.505, 191.904, 191.514, 191.913, 191.523, 191.922, 191.532, 191.931, 191.541, 191.940, 191.550, 191.949, 191.559, 191.958, 191.568, 191.967, 191.577, 191.976, 191.586, 191.985, 191.595, 191.994, 192.003, 192.012, 192.021, 192.030, 192.039, 192.048, 192.057, 192.066, 192.075, 192.084, 192.093, 192.102, 192.111, 192.120, 192.129, 192.138, 192.147, 192.156, 192.165, 192.174, 192.183, 192.192, 192.201, 192.210, 192.219, 192.228, 192.237, 192.246, 192.255, 192.264, 192.273, 192.282, 192.291, 192.300, 192.309, 192.318, 192.327, 192.336, 192.345, 192.354, 192.363, 192.372, 192.381, 192.390, 192.399, 192.408, 192.417, 192.426, 192.435, 192.444, 192.453, 192.462, 192.471, 192.480, 192.489, 192.498, 192.507, 192.516, 192.525, 192.534, 192.543, 192.552, 192.561, 192.570, 192.579, 192.588, 192.597, 192.606, 192.615, 192.624, 192.633, 192.642, 192.651, 192.660, 192.669, 192.678, 192.687, 192.696, 192.705, 192.714, 192.723, 192.732, 192.741, 192.750, 192.759, 192.768, 192.777, 192.786, 192.795, 192.804, 192.813, 192.822, 192.831, 192.840, 192.849, 192.858, 192.867, 192.876, 192.885, 192.894, 192.903, 192.912, 192.921, 192.930, 192.939, 192.948, 192.957, 192.966, 192.975, 192.984, 192.993, 193.002, 193.011, 193.020, 193.029, 193.038, 193.047, 193.056, 193.065, 193.074, 193.083, 193.092, 193.101, 193.110, 193.119, 193.128, 193.137, 193.146, 193.155, 193.164, 193.173, 193.182, 193.191, 193.200, 193.209, 193.218, 193.227, 193.236, 193.245, 193.254, 193.263, 193.272, 193.281, 193.290, 193.299, 193.308, 193.317, 193.326, 193.335, 193.344, 193.353, 193.362, 193.371, 193.380, 193.389, 193.398, 193.407, 193.416, 193.425, 193.434, 193.443, 193.452, 193.461, 193.470, 193.479, 193.488, 193.497, 193.506, 193.515, 193.524, 193.533, 193.542, 193.551, 193.560, 193.569, 193.578, 193.587, 193.596, 193.605, 193.614, 193.623, 193.632, 193.641, 193.650, 193.659, 193.668, 193.677, 193.686, 193.695, 193.704, 193.713, 193.722, 193.731, 193.740, 193.749, 193.758, 193.767, 193.776, 193.785, 193.794, 193.803, 193.812, 193.821, 193.830, 193.839, 193.848, 193.857, 193.866, 193.875, 193.884, 193.893, 193.902, 193.911, 193.920, 193.929, 193.938, 193.947, 193.956, 193.965, 193.974, 193.983, 193.992, 194.001, 194.010, 194.019, 194.028, 194.037, 194.046, 194.055, 194.064, 194.073, 194.082, 194.091, 194.100, 194.109, 194.118, 194.127, 194.136, 194.145, 194.154, 194.163, 194.172, 194.181, 194.190, 194.199, 194.208, 194.217, 194.226, 194.235, 194.244, 194.253, 194.262, 194.271, 194.280, 194.289, 194.298, 194.307, 194.316, 194.325, 194.334, 194.343, 194.352, 194.361, 194.370, 194.379, 194.388, 194.397, 194.406, 194.415, 194.424, 194.433, 194.442, 194.451, 194.460, 194.469, 194.478, 194.487, 194.496, 194.505, 194.514, 194.523, 194.532, 194.541, 194.550, 194.559, 194.568, 194.577, 194.586, 194.595, 194.604, 194.613, 194.622, 194.631, 194.640, 194.649, 194.658, 194.667, 194.676, 194.685, 194.694, 194.703, 194.712, 194.721, 194.730, 194.739, 194.748, 194.757, 194.766, 194.775, 194.784, 194.793, 194.802, 194.811, 194.820, 194.829, 194.838, 194.847, 194.856, 194.865, 194.874, 194.883, 194.892, 194.901, 194.910, 194.919, 194.928, 194.937, 194.946, 194.955, 194.964, 194.973, 194.982, 194.991, 195.000, 195.009, 195.018, 195.027, 195.036, 195.045, 195.054, 195.063, 195.072, 195.081, 195.090, 195.099, 195.108, 195.117, 195.126, 195.135, 195.144, 195.153, 195.162, 195.171, 195.180, 195.189, 195.198, 195.207, 195.216, 195.225, 195.234, 195.243, 195.252, 195.261, 195.270, 195.279, 195.288, 195.297, 195.306, 195.315, 195.324, 195.333, 195.342, 195.351, 195.360, 195.369, 195.378, 195.387, 195.396, 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196.405, 196.414, 196.423, 196.432, 196.441, 196.450, 196.459, 196.468, 196.477, 196.486, 196.495, 196.504, 196.513, 196.522, 196.531, 196.540, 196.549, 196.558, 196.567, 196.576, 196.585, 196.594, 196.603, 196.612, 196.621, 196.630, 196.639, 196.648, 196.657, 196.666, 196.675, 196.684, 196.693, 196.702, 196.711, 196.720, 196.729, 196.738, 196.747, 196.756, 196.765, 196.774, 196.783, 196.792, 196.801, 196.810, 196.819, 196.828, 196.837, 196.846, 196.855, 196.864, 196.873, 196.882, 196.891, 196.900, 196.909, 196.918, 196.927, 196.936, 196.945, 196.954, 196.963, 196.972, 196.981, 196.990, 197.000, 197.009, 197.018, 197.027, 197.036, 197.045, 197.054, 197.063, 197.072, 197.081, 197.090, 197.099, 197.108, 197.117, 197.126, 197.135, 197.144, 197.153, 197.162, 197.171, 197.180, 197.189, 197.198, 197.207, 197.216, 197.225, 197.234, 197.243, 197.252, 197.261, 197.270, 197.279, 197.288, 197.297, 197.306, 197.315, 197.324, 197.333, 197.342, 197.351, 197.360, 197.369, 197.378, 197.387, 197.396, 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198.405, 198.414, 198.423, 198.432, 198.441, 198.450, 198.459, 198.468, 198.477, 198.486, 198.495, 198.504, 198.513, 198.522, 198.531, 198.540, 198.549, 198.558, 198.567, 198.576, 198.585, 198.594, 198.603, 198.612, 198.621,

TO SOHNA

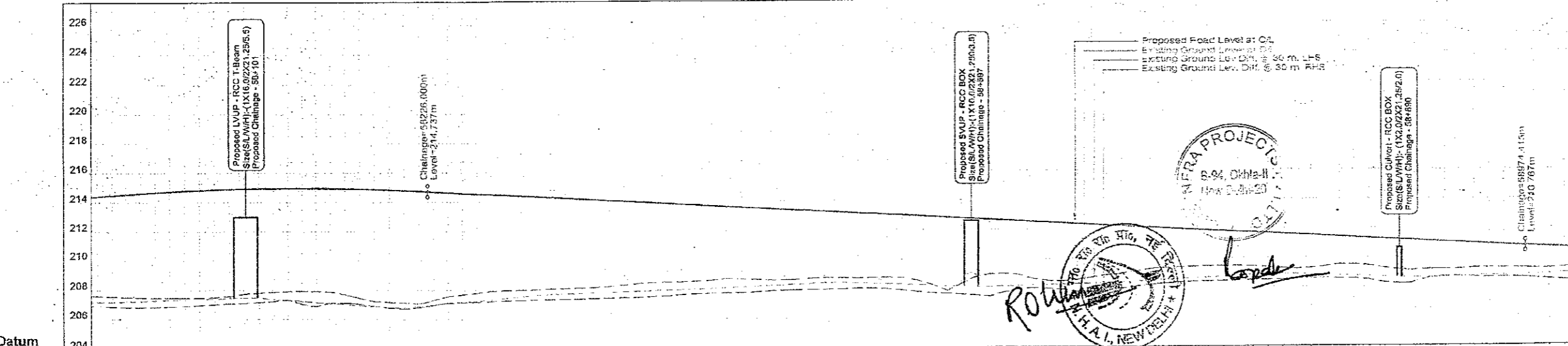
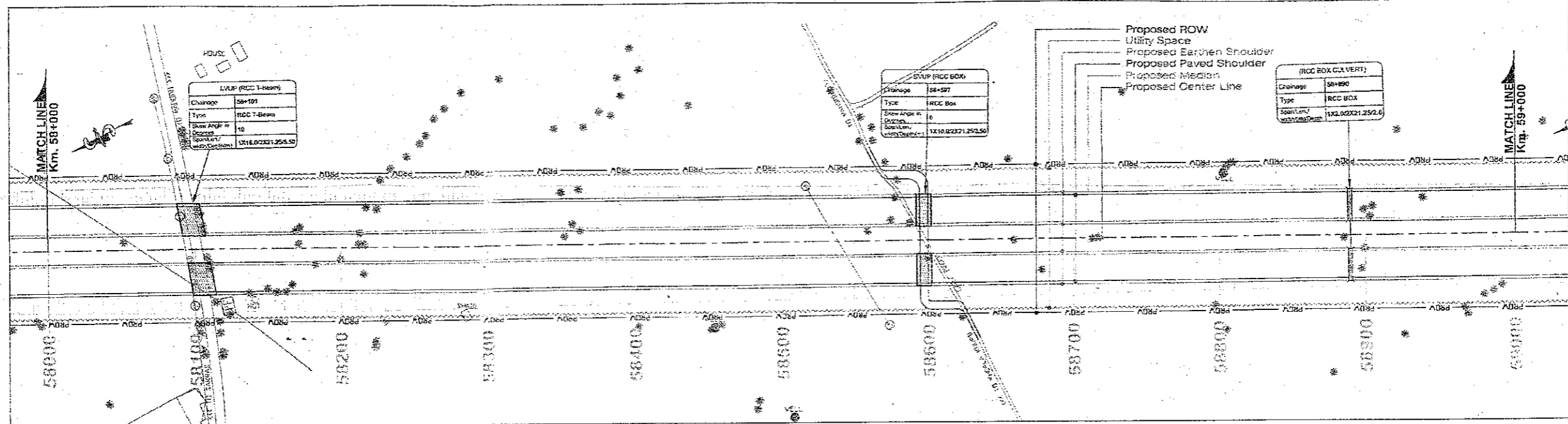
TO FIROZPUR JHIRKA

PROPOSED LEGEND

Legend table with symbols for HIP LINE, PROP. CL, MEDIAN, EDGE STRIP, PROP. C/W, PROP. E/S, UTILITY SPACE, FROW, PROP. CH, MATCH LINE, PRO. ROAD LEVEL AT CIL OF C/W, GROUND ROAD LEVEL AT CIL OF C/W, EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CIL, EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CIL, SUPER ELEVATION, GRADIENT, GRID.

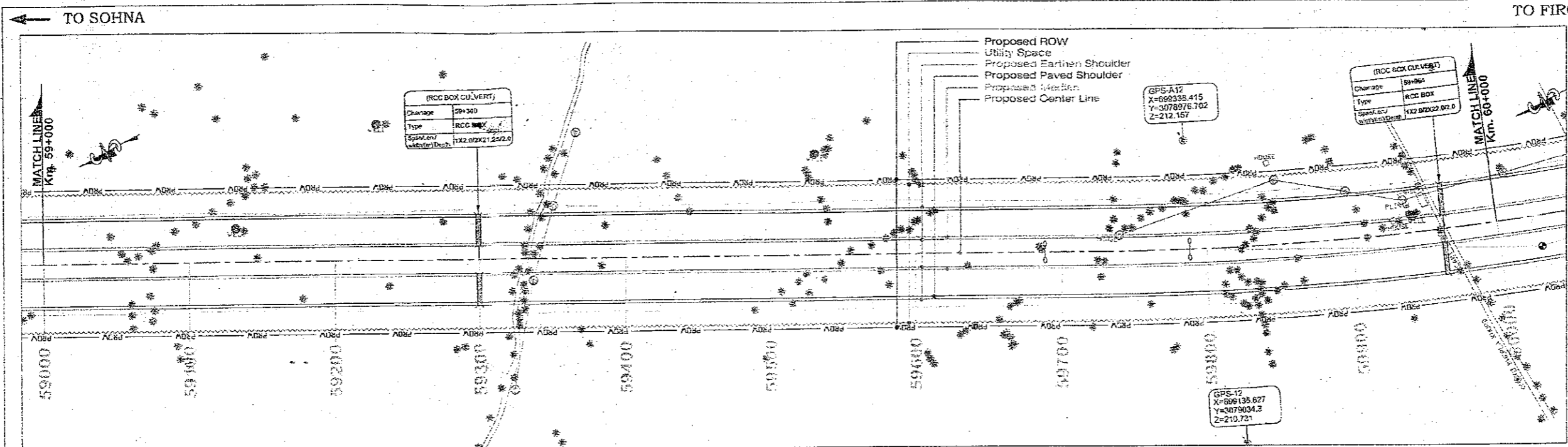
EXISTING LEGEND

Legend table with symbols for BRIDGE, BRANCH ROAD, BUILDING / STRUCTURE, BUS STOP, BOUNDARY WALL, CENTER LINE, CULVERT, DRAIN, ELECTRIC POLE, EX ROW, EXISTING ROAD, GATE, HAND PUMP, HUT, KILOMETER STONE, LAMP POST, MEDIAN, OFC, PILLAR, PETROL PUMP, RIVER/NALA, RAILWAY TRACK, ROW PILLAR, SIGN BOARD, TELEPHONE POLE, TEMPLE, TRANSFORMER, TOILET, TOWER, WARE HOUSE, TREE.



Profile data table with columns for Proposed Road Level at CIL, Existing Ground Level at CIL, Existing Ground Level at 30m from CIL, Existing Circum Level, Proposed Horizontal Alignment, Proposed Vertical Alignment, Super Elevation, and Proposed Chainage (MTR.).

Client: National Highways Authority of India. Consultant: Chaitanya Projects Consultancy Pvt. Ltd. Project: Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka. Scale: Horizontal=1:2000, Vertical=1:200. DWG Title: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 58+000 TO KM. 59+000). Drawing No: CPCI-F-152/BM/EXP./FR/P&PI/59.

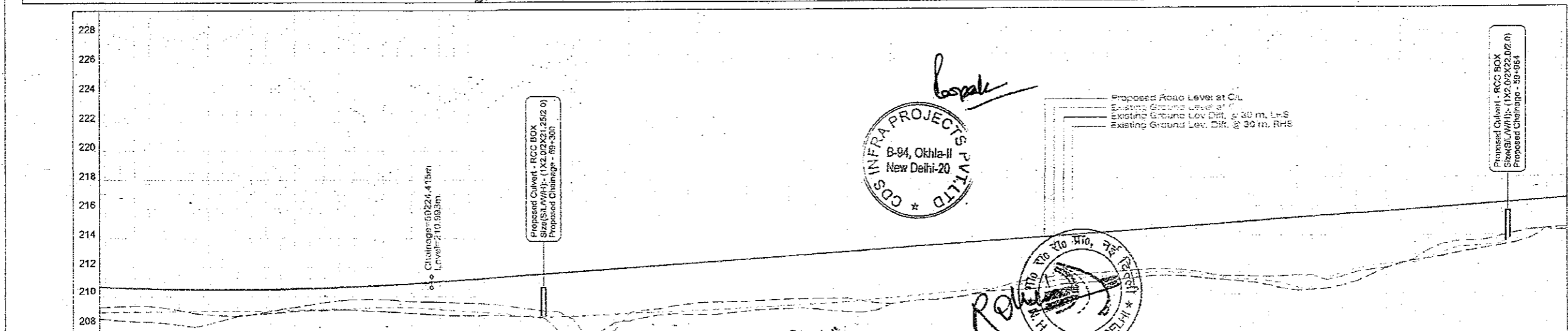


PROPOSED LEGEND

HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. CW	
PROP. ES	
UTILITY SPACE	
PROW	P ROW
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF CW	
Ground/Road Level at C/L of Ex. CW	
EXIST. GROUND LVL. DIFF. @ 30 M (LHS) FROM CL	
EXIST. GROUND LVL. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	EX ROW
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



Datum	206	208	210	212	214	216	218	220	222	224	226	228																																																																																									
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	210.048	210.010	210.010	210.010	210.010	210.010	210.010	210.010	210.010	210.010	210.010	210.010																																																																																									
GROUND/ROAD LEVEL AT C/L OF EX. CW	208.884	208.884	208.884	208.884	208.884	208.884	208.884	208.884	208.884	208.884	208.884	208.884																																																																																									
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CL	1.388	1.298	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229																																																																																									
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CL	2.242	2.203	2.203	2.203	2.203	2.203	2.203	2.203	2.203	2.203	2.203	2.203																																																																																									
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL																																																																																																					
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY																																																																																																					
SUPERELEVATION CROSS FALL (M)																																																																																																					
PROPOSED CHAINAGE (MTR.)	59000.0	59010.0	59020.0	59030.0	59040.0	59050.0	59060.0	59070.0	59080.0	59090.0	59100.0	59110.0	59120.0	59130.0	59140.0	59150.0	59160.0	59170.0	59180.0	59190.0	59200.0	59210.0	59220.0	59230.0	59240.0	59250.0	59260.0	59270.0	59280.0	59290.0	59300.0	59310.0	59320.0	59330.0	59340.0	59350.0	59360.0	59370.0	59380.0	59390.0	59400.0	59410.0	59420.0	59430.0	59440.0	59450.0	59460.0	59470.0	59480.0	59490.0	59500.0	59510.0	59520.0	59530.0	59540.0	59550.0	59560.0	59570.0	59580.0	59590.0	59600.0	59610.0	59620.0	59630.0	59640.0	59650.0	59660.0	59670.0	59680.0	59690.0	59700.0	59710.0	59720.0	59730.0	59740.0	59750.0	59760.0	59770.0	59780.0	59790.0	59800.0	59810.0	59820.0	59830.0	59840.0	59850.0	59860.0	59870.0	59880.0	59890.0	59900.0	59910.0	59920.0	59930.0	59940.0	59950.0	59960.0	59970.0	59980.0	59990.0	60000.0

CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT: Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE: Horizontal= 1:2000 Vertical= 1:200

DWG TITLE: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 59+000 TO KM. 60+000)

DRAWING No.: C/P/152/BM/EXP./FR/P&P/60

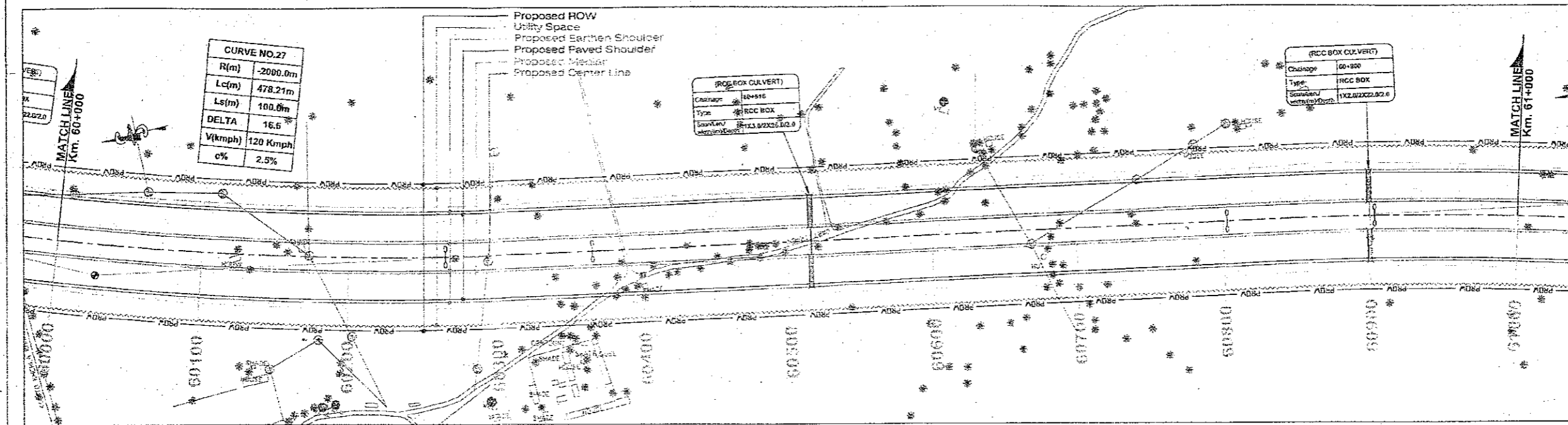
DATE: AUGUST 2018

PREPARED BY: R.R. JALANDRA

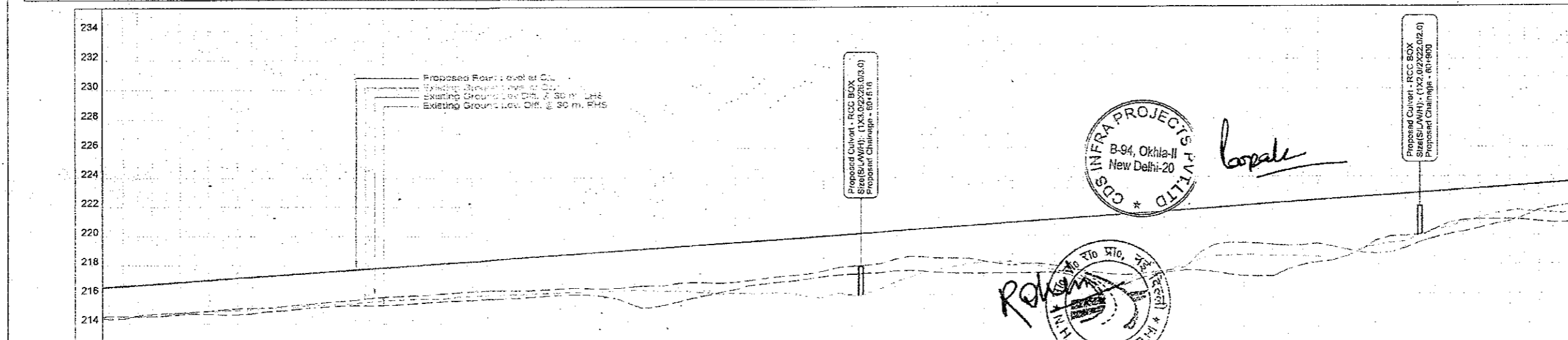
DESIGNED BY: SANTOSH

CHECKED BY: DHARAMVIR

APPROVED BY: S.K. SINHA

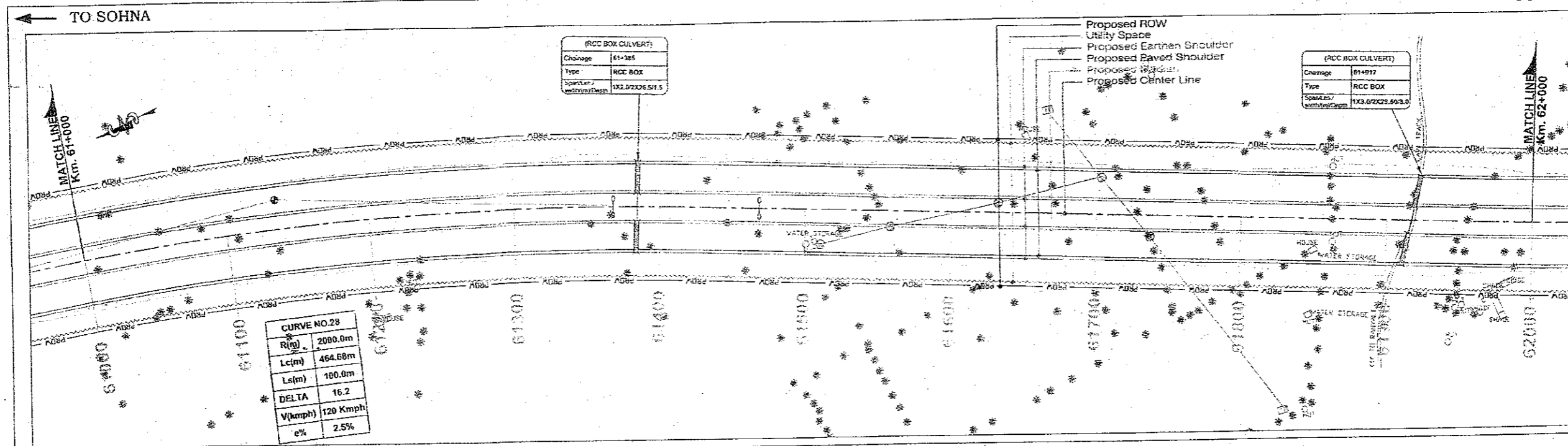


PROPOSED LEGEND	
HIP LINE	
PROP. CA	
MEDIAN	
EDGE STRIP	
PROP. CA/V	
PROP. ES	
UTILITY SPACE	
PROW	
PROP. CH	000
MATCH LINE	
PRO. ROAD LEVEL AT CL OF C/W	
Ground/Road Level at CL of Ex. C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	



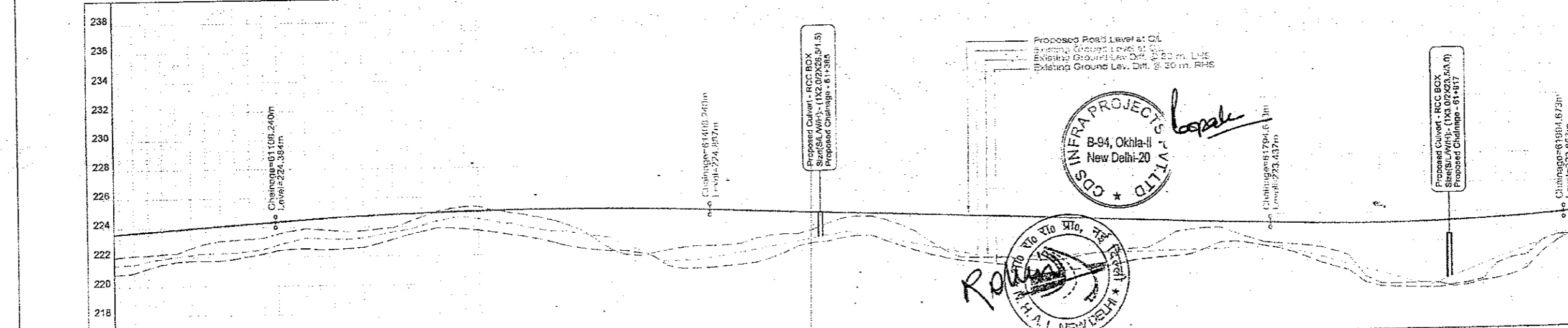
EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOWER	
WARE HOUSE	
TREE	

Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTERLINE (M)	CROSS ROAD LEVEL AT CL OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM CL	EXISTING GROUND LEVEL DIFF. @ 30 M (RHS) FROM CL	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
212	216.506	213.761	2.225	2.121				60000.0
	216.577	214.407	2.252	2.092				60010.0
	216.648	214.674	2.090	2.183				60020.0
	216.719	214.939	2.086	2.230				60030.0
	216.790	215.206	2.096	2.255				60040.0
	216.861	215.471	2.154	2.247				60050.0
	216.932	215.734	2.138	2.242				60060.0
	217.004	216.000	2.153	2.247				60070.0
	217.075	216.264	2.153	2.247				60080.0
	217.146	216.528	2.142	2.250				60090.0
	217.217	216.793	2.147	2.270				60100.0
	217.288	217.058	2.147	2.270				60110.0
	217.359	217.323	2.144	2.240				60120.0
	217.430	217.588	2.111	2.239				60130.0
	217.501	217.853	2.076	2.239				60140.0
	217.572	218.118	2.077	2.400				60150.0
	217.643	218.383	2.075	2.439				60160.0
	217.714	218.648	2.025	2.523				60170.0
	217.785	218.913	2.067	2.679				60180.0
	217.856	219.178	2.032	2.836				60190.0
	217.927	219.443	2.067	2.888				60200.0
	217.998	219.708	2.061	2.940				60210.0
	218.069	219.973	2.064	2.992				60220.0
	218.140	220.238	2.063	3.044				60230.0
	218.211	220.503	2.058	3.096				60240.0
	218.282	220.768	2.054	3.148				60250.0
	218.353	221.033	2.051	3.200				60260.0
	218.424	221.298	2.047	3.252				60270.0
	218.495	221.563	2.043	3.304				60280.0
	218.566	221.828	2.040	3.356				60290.0
	218.637	222.093	2.036	3.408				60300.0
	218.708	222.358	2.032	3.460				60310.0
	218.779	222.623	2.028	3.512				60320.0
	218.850	222.888	2.024	3.564				60330.0
	218.921	223.153	2.020	3.616				60340.0
	218.992	223.418	2.016	3.668				60350.0
	219.063	223.683	2.012	3.720				60360.0
	219.134	223.948	2.008	3.772				60370.0
	219.205	224.213	2.004	3.824				60380.0
	219.276	224.478	2.000	3.876				60390.0
	219.347	224.743	1.996	3.928				60400.0
	219.418	225.008	1.992	3.980				60410.0
	219.489	225.273	1.988	4.032				60420.0
	219.560	225.538	1.984	4.084				60430.0
	219.631	225.803	1.980	4.136				60440.0
	219.702	226.068	1.976	4.188				60450.0
	219.773	226.333	1.972	4.240				60460.0
	219.844	226.598	1.968	4.292				60470.0
	219.915	226.863	1.964	4.344				60480.0
	219.986	227.128	1.960	4.396				60490.0
	220.057	227.393	1.956	4.448				60500.0
	220.128	227.658	1.952	4.500				60510.0
	220.199	227.923	1.948	4.552				60520.0
	220.270	228.188	1.944	4.604				60530.0
	220.341	228.453	1.940	4.656				60540.0
	220.412	228.718	1.936	4.708				60550.0
	220.483	228.983	1.932	4.760				60560.0
	220.554	229.248	1.928	4.812				60570.0
	220.625	229.513	1.924	4.864				60580.0
	220.696	229.778	1.920	4.916				60590.0
	220.767	230.043	1.916	4.968				60600.0
	220.838	230.308	1.912	5.020				60610.0
	220.909	230.573	1.908	5.072				60620.0
	220.980	230.838	1.904	5.124				60630.0
	221.051	231.103	1.900	5.176				60640.0
	221.122	231.368	1.896	5.228				60650.0
	221.193	231.633	1.892	5.280				60660.0
	221.264	231.898	1.888	5.332				60670.0
	221.335	232.163	1.884	5.384				60680.0
	221.406	232.428	1.880	5.436				60690.0
	221.477	232.693	1.876	5.488				60700.0
	221.548	232.958	1.872	5.540				60710.0
	221.619	233.223	1.868	5.592				60720.0
	221.690	233.488	1.864	5.644				60730.0
	221.761	233.753	1.860	5.696				60740.0
	221.832	234.018	1.856	5.748				60750.0
	221.903	234.283	1.852	5.800				60760.0
	221.974	234.548	1.848	5.852				60770.0
	222.045	234.813	1.844	5.904				60780.0
	222.116	235.078	1.840	5.956				60790.0
	222.187	235.343	1.836	6.008				60800.0
	222.258	235.608	1.832	6.060				60810.0
	222.329	235.873	1.828	6.112				60820.0
	222.400	236.138	1.824	6.164				60830.0
	222.471	236.403	1.820	6.216				60840.0
	222.542	236.668	1.816	6.268				60850.0
	222.613	236.933	1.812	6.320				60860.0
	222.684	237.198	1.808	6.372				60870.0
	222.755	237.463	1.804	6.424				60880.0
	222.826	237.728	1.800	6.476				60890.0
	222.897	237.993	1.796	6.528				60900.0
	222.968	238.258	1.792	6.580				60910.0
	223.039	238.523	1.788	6.632				60920.0
	223.110	238.788	1.784	6.684				60930.0
	223.181	239.053	1.780	6.736				60940.0
	223.252	239.318	1.776	6.788				60950.0
	223.323	239.583	1.772	6.840				60960.0
	223.394	239.848	1.768	6.892				60970.0
	223.465	240.113	1.764	6.944				60980.0
	223.536	240.378	1.760	6.996				60990.0
	223.607	240.643	1.756	7.048				61000.0



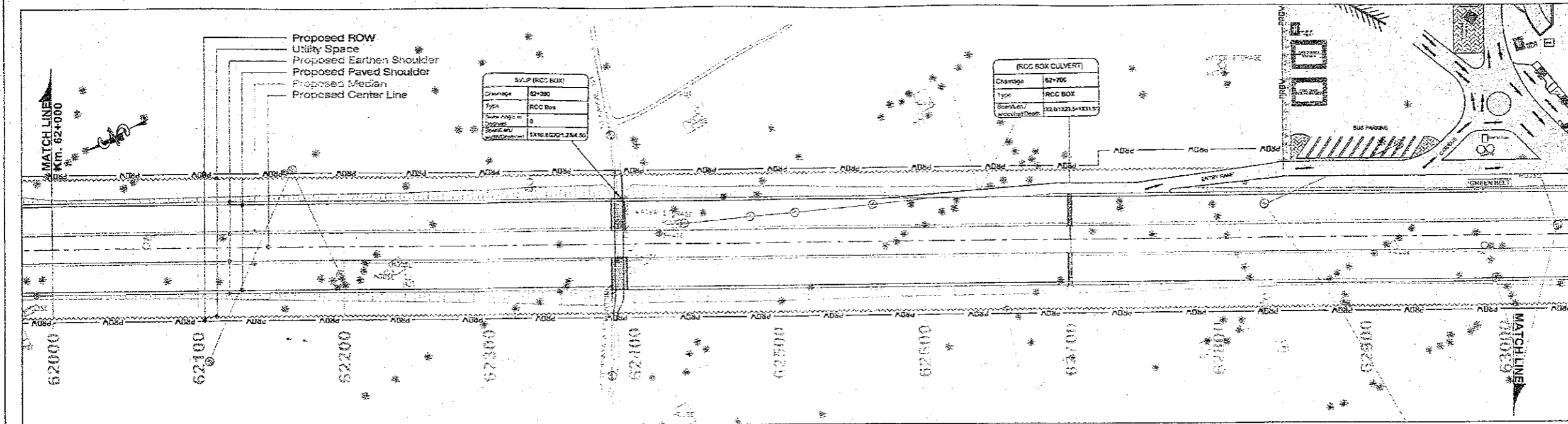
PROPOSED LEGEND	
HIP LINE	---
PROP. CA	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT CL OF CV	---
Ground Road Level at CL of Ex. CV	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	---
SUPER ELEVATION	---
GRADIENT	---
GRID	---

EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOWER	---
WARE HOUSE	---
TREE	---



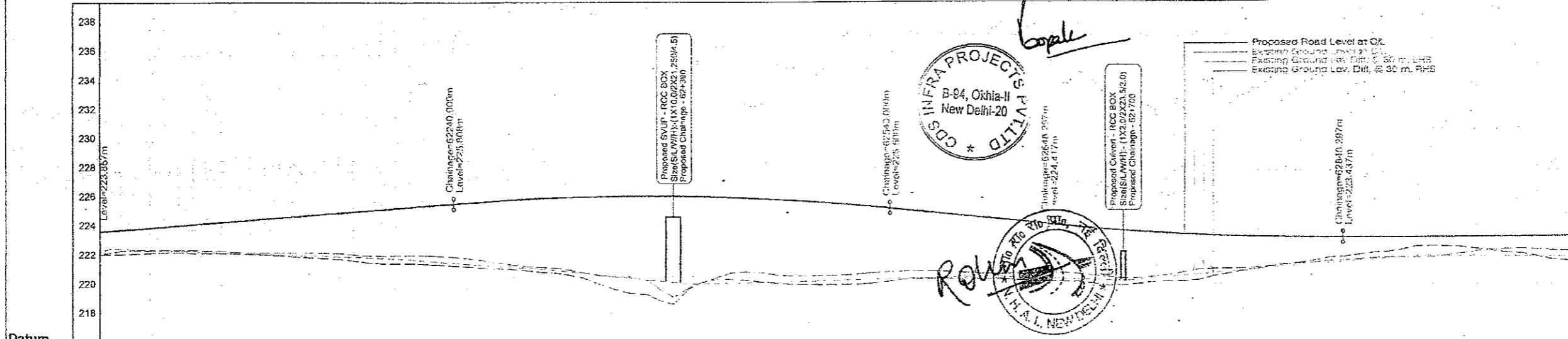
Datum	218	220	222	224	226	228	230	232	234	236	238
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	221.570	221.614	221.658	221.702	221.746	221.790	221.834	221.878	221.922	221.966	222.010
GROUND ROAD LEVEL AT CL OF EXISTING CARRIAGEWAY (M)	221.570	221.570	221.570	221.570	221.570	221.570	221.570	221.570	221.570	221.570	221.570
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CL	1.574	1.569	1.564	1.559	1.554	1.549	1.544	1.539	1.534	1.529	1.524
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CL	2.781	2.780	2.779	2.778	2.777	2.776	2.775	2.774	2.773	2.772	2.771
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	R=2000.0m										
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	L=900.0m										
SUPERELEVATION CROSSFALL (%)	0.0										
PROPOSED CHAINAGE (MTR.)	61000.0	61010.0	61020.0	61030.0	61040.0	61050.0	61060.0	61070.0	61080.0	61090.0	61100.0
PROPOSED CHAINAGE (MTR.)	61110.0	61120.0	61130.0	61140.0	61150.0	61160.0	61170.0	61180.0	61190.0	61200.0	61210.0
PROPOSED CHAINAGE (MTR.)	61220.0	61230.0	61240.0	61250.0	61260.0	61270.0	61280.0	61290.0	61300.0	61310.0	61320.0
PROPOSED CHAINAGE (MTR.)	61330.0	61340.0	61350.0	61360.0	61370.0	61380.0	61390.0	61400.0	61410.0	61420.0	61430.0
PROPOSED CHAINAGE (MTR.)	61440.0	61450.0	61460.0	61470.0	61480.0	61490.0	61500.0	61510.0	61520.0	61530.0	61540.0
PROPOSED CHAINAGE (MTR.)	61550.0	61560.0	61570.0	61580.0	61590.0	61600.0	61610.0	61620.0	61630.0	61640.0	61650.0
PROPOSED CHAINAGE (MTR.)	61660.0	61670.0	61680.0	61690.0	61700.0	61710.0	61720.0	61730.0	61740.0	61750.0	61760.0
PROPOSED CHAINAGE (MTR.)	61770.0	61780.0	61790.0	61800.0	61810.0	61820.0	61830.0	61840.0	61850.0	61860.0	61870.0
PROPOSED CHAINAGE (MTR.)	61880.0	61890.0	61900.0	61910.0	61920.0	61930.0	61940.0	61950.0	61960.0	61970.0	61980.0
PROPOSED CHAINAGE (MTR.)	61990.0	62000.0									

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472. FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- Horizontal= 1:2000 Vertical= 1:200	DWG TITLE :- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 61+000 TO KM. 62+000)	DRAWING No. :- C/PC/152/BM/EXP./FR/P/PI/62
					DATE : AUGUST 2018 PREPARED BY : R.K.JALANDRA DESIGNED BY : SANTOSH CHECKED BY : DHARAMVIR APPROVED BY : S.K.SINHA

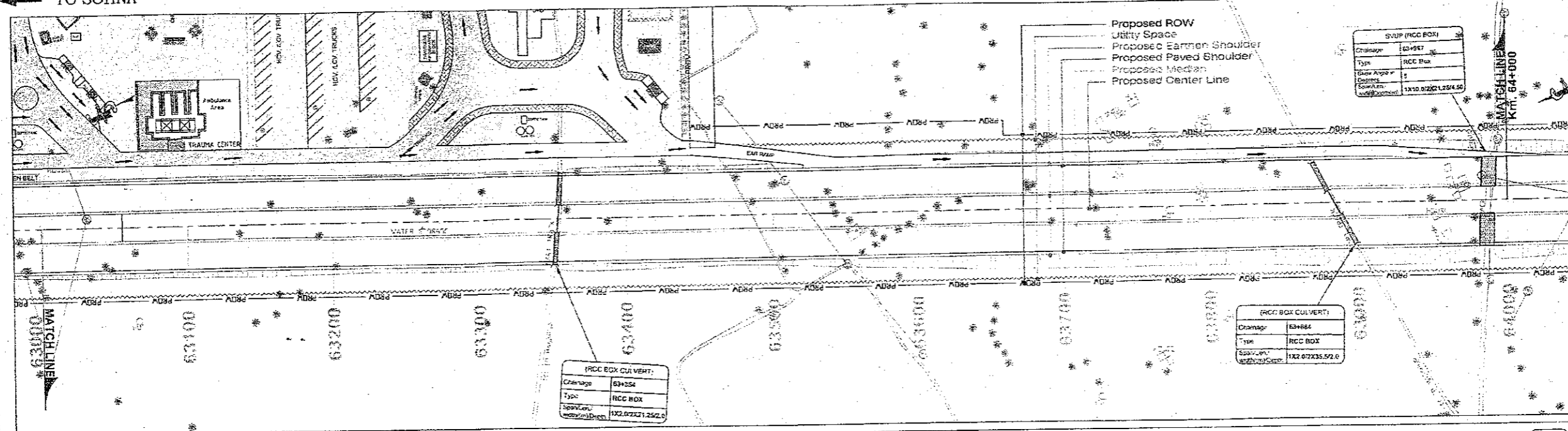


PROPOSED LEGEND	
HIP LINE	---
PROP. C/L	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT C/L OF CW	---
Ground/Road Level at C/L of Ex. CW	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	Q
GRADIENT	G
GRID	---

EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/CANAL	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---

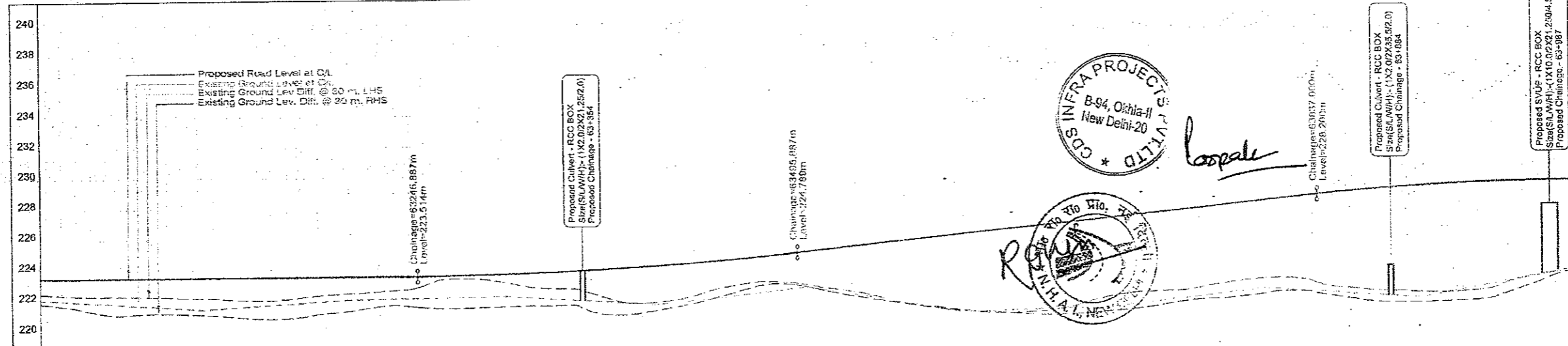


Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	PROPOSED ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSS FALL (%)	PROPOSED CHAINAGE (MTR.)
223.000	223.919	223.919	1.815	1.001			Q=2.5	62000.0
223.200	223.919	223.919	1.419	1.672				62010.0
223.400	223.919	223.919	1.023	1.714				62020.0
223.600	224.136	224.136	1.547	1.740				62030.0
223.800	224.218	224.218	1.596	1.753				62040.0
223.919	224.297	224.297	1.664	1.802				62050.0
224.000	224.377	224.377	1.769	2.086				62060.0
224.100	224.456	224.456	1.872	2.143				62070.0
224.200	224.536	224.536	1.973	2.221				62080.0
224.300	224.615	224.615	2.091	2.343				62090.0
224.400	224.695	224.695	2.202	2.473				62100.0
224.500	224.774	224.774	2.310	2.609				62120.0
224.600	224.854	224.854	2.419	2.763				62130.0
224.700	224.933	224.933	2.519	2.893				62140.0
224.800	225.013	225.013	2.619	3.029				62150.0
224.900	225.092	225.092	2.719	3.179				62160.0
225.000	225.172	225.172	2.819	3.339				62170.0
225.100	225.251	225.251	2.919	3.508				62180.0
225.200	225.331	225.331	3.019	3.678				62190.0
225.300	225.410	225.410	3.119	3.848				62200.0
225.400	225.489	225.489	3.219	4.018				62210.0
225.500	225.569	225.569	3.319	4.188				62220.0
225.600	225.648	225.648	3.419	4.358				62230.0
225.700	225.728	225.728	3.519	4.528				62240.0
225.800	225.808	225.808	3.619	4.698				62250.0
225.900	225.888	225.888	3.719	4.868				62260.0
226.000	225.968	225.968	3.819	5.038				62270.0
226.100	226.048	226.048	3.919	5.208				62280.0
226.200	226.128	226.128	4.019	5.378				62290.0
226.300	226.208	226.208	4.119	5.548				62300.0
226.400	226.288	226.288	4.219	5.718				62310.0
226.500	226.368	226.368	4.319	5.888				62320.0
226.600	226.448	226.448	4.419	6.058				62330.0
226.700	226.528	226.528	4.519	6.228				62340.0
226.800	226.608	226.608	4.619	6.398				62350.0
226.900	226.688	226.688	4.719	6.568				62360.0
227.000	226.768	226.768	4.819	6.738				62370.0
227.100	226.848	226.848	4.919	6.908				62380.0
227.200	226.928	226.928	5.019	7.078				62390.0
227.300	227.008	227.008	5.119	7.248				62400.0
227.400	227.088	227.088	5.219	7.418				62410.0
227.500	227.168	227.168	5.319	7.588				62420.0
227.600	227.248	227.248	5.419	7.758				62430.0
227.700	227.328	227.328	5.519	7.928				62440.0
227.800	227.408	227.408	5.619	8.098				62450.0
227.900	227.488	227.488	5.719	8.268				62460.0
228.000	227.568	227.568	5.819	8.438				62470.0
228.100	227.648	227.648	5.919	8.608				62480.0
228.200	227.728	227.728	6.019	8.778				62490.0
228.300	227.808	227.808	6.119	8.948				62500.0
228.400	227.888	227.888	6.219	9.118				62510.0
228.500	227.968	227.968	6.319	9.288				62520.0
228.600	228.048	228.048	6.419	9.458				62530.0
228.700	228.128	228.128	6.519	9.628				62540.0
228.800	228.208	228.208	6.619	9.798				62550.0
228.900	228.288	228.288	6.719	9.968				62560.0
229.000	228.368	228.368	6.819	10.138				62570.0
229.100	228.448	228.448	6.919	10.308				62580.0
229.200	228.528	228.528	7.019	10.478				62590.0
229.300	228.608	228.608	7.119	10.648				62600.0
229.400	228.688	228.688	7.219	10.818				62610.0
229.500	228.768	228.768	7.319	10.988				62620.0
229.600	228.848	228.848	7.419	11.158				62630.0
229.700	228.928	228.928	7.519	11.328				62640.0
229.800	229.008	229.008	7.619	11.498				62650.0
229.900	229.088	229.088	7.719	11.668				62660.0
230.000	229.168	229.168	7.819	11.838				62670.0
230.100	229.248	229.248	7.919	12.008				62680.0
230.200	229.328	229.328	8.019	12.178				62690.0
230.300	229.408	229.408	8.119	12.348				62700.0
230.400	229.488	229.488	8.219	12.518				62710.0
230.500	229.568	229.568	8.319	12.688				62720.0
230.600	229.648	229.648	8.419	12.858				62730.0
230.700	229.728	229.728	8.519	13.028				62740.0
230.800	229.808	229.808	8.619	13.198				62750.0
230.900	229.888	229.888	8.719	13.368				62760.0
231.000	229.968	229.968	8.819	13.538				62770.0
231.100	230.048	230.048	8.919	13.708				62780.0
231.200	230.128	230.128	9.019	13.878				62790.0
231.300	230.208	230.208	9.119	14.048				62800.0
231.400	230.288	230.288	9.219	14.218				62810.0
231.500	230.368	230.368	9.319	14.388				62820.0
231.600	230.448	230.448	9.419	14.558				62830.0
231.700	230.528	230.528	9.519	14.728				62840.0
231.800	230.608	230.608	9.619	14.898				62850.0
231.900	230.688	230.688	9.719	15.068				62860.0
232.000	230.768	230.768	9.819	15.238				62870.0
232.100	230.848	230.848	9.919	15.408				62880.0
232.200	230.928	230.928	10.019	15.578				62890.0
232.300	231.008	231.008	10.119	15.748				62900.0
232.400	231.088	231.088	10.219	15.918				62910.0
232.500	231.168	231.168	10.319	16.088				62920.0
232.600	231.248	231.248	10.419	16.258				62930.0
232.700	231.328	231.328	10.519	16.428				62940.0
232.800	231.408	231.408	10.619	16.598				62950.0
232.900	231.488	231.488	10.719	16.768				62960.0
233.000	231.568	231.568	10.819	16.938				62970.0
233.100	231.648	231.648	10.919	17.108				62980.0
233.200	231.728	231.728	11.019	17.278				62990.0
233.300	231.808	231.808	11.119	17.448				63000.0



PROPOSED LEGEND	
HIP LINE	---
PROP. CL	---
MEDIAN	---
EDGE STRIP	---
PROP. CAW	---
PROP. EIS	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT CA OF CM	---
Ground/Read Level at C/L of Ex. C/W	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	Q
GRADIENT	G
GRID	---

EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---



Datum	218	220	222	224	226	228	230	232	234	236	238	240
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	223.485	223.488	223.491	223.494	223.497	223.500	223.503	223.506	223.509	223.512	223.515	223.518
GROUND/READ LEVEL AT C/L OF EXISTING ROAD/ROAD AT	223.485	223.488	223.491	223.494	223.497	223.500	223.503	223.506	223.509	223.512	223.515	223.518
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	1.011	1.014	1.017	1.020	1.023	1.026	1.029	1.032	1.035	1.038	1.041	1.044
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	1.086	1.089	1.092	1.095	1.098	1.101	1.104	1.107	1.110	1.113	1.116	1.119
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	G=0.0											
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	L=250.0m											
SUPERELEVATION CROSSFALL (%)	G=2.5											
PROPOSED CHAINAGE (MTR.)	63000.0	63010.0	63020.0	63030.0	63040.0	63050.0	63060.0	63070.0	63080.0	63090.0	63100.0	63110.0

CLIENT:-
National Highways Authority of India
 (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:-
Chaitanya Projects Consultancy Pvt. Ltd.
 C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD
 PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-
 Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE:-
 Horizontal= 1:2000
 Vertical= 1:200

DWG TITLE:-
 PLAN & PROFILE
 (SOHNA - FIROZPUR JHIRKA)
 (KM. 61-000 TO KM. 61-000)

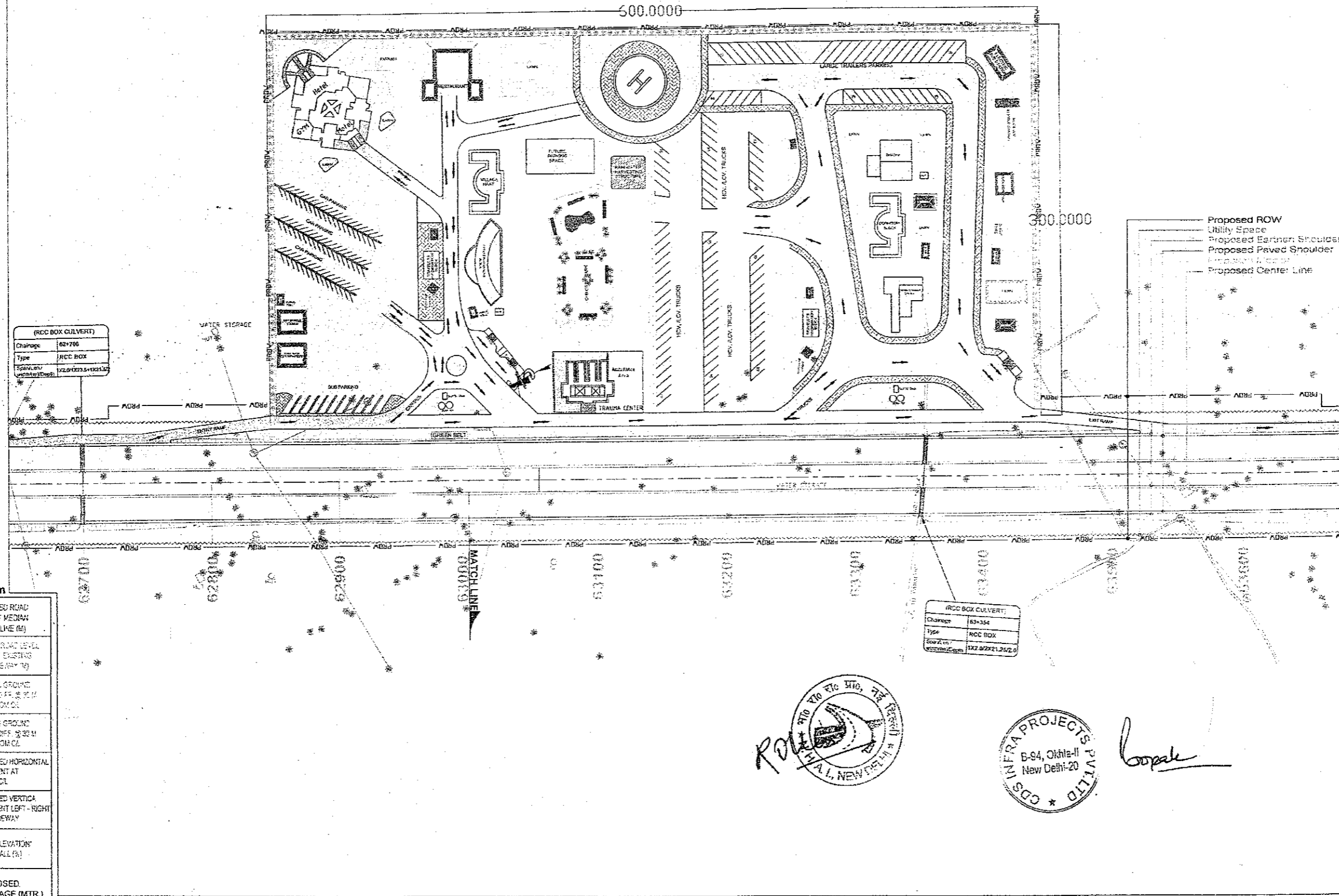
DRAWING No. 81

DATE: AUGUST 2016	Revision: R0
PREPARED BY: R.K. JALANDRA	DESIGNED BY: SANTOSH
CHECKED BY: DHARAMVIR	APPROVED BY: S.J. SINGHA

CPC/P-152/BM/EXP./FR/P&P/61

← TO SOHNA

TO FIROZPUR JHIRKA →



RCC BOX CULVERT	
Chainage	62+700
Type	RCC BOX
Span/Length	1x2.0/10.235+10.235
Vertical Curve	

RCC BOX CULVERT	
Chainage	63+354
Type	RCC BOX
Span/Length	1x2.0/22.2125+2.0
Vertical Curve	

PROPOSED LEGEND	
HIP LINE	---
PROP. CL	---
MEDIAN	---
EDGE STRIP	---
PROP. C/W	---
PROP. E/S	---
UTILITY SPACE	---
PROV	P ROW
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT C/L OF C/W	---
Ground/Road Level at C/L of Ex.C/W	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	---
SUPER ELEVATION	○
GRADIENT	G
GRID	---

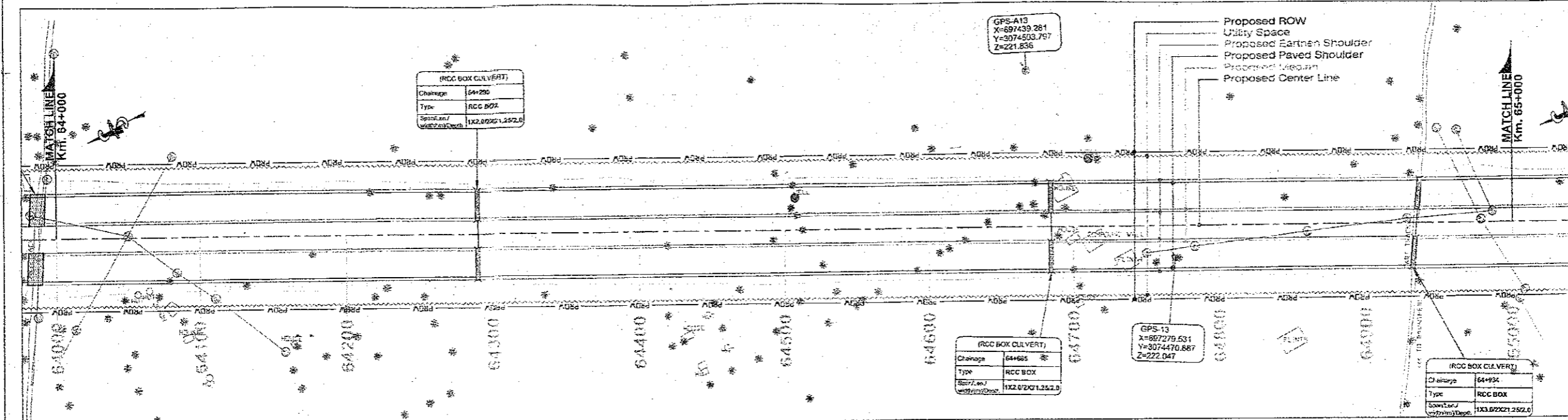
EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDING / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	EX ROW
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW/PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---

Datum	
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	
GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	
SUPERELEVATION CROSSLAND (M)	
PROPOSED CHAINAGE (MTR.)	

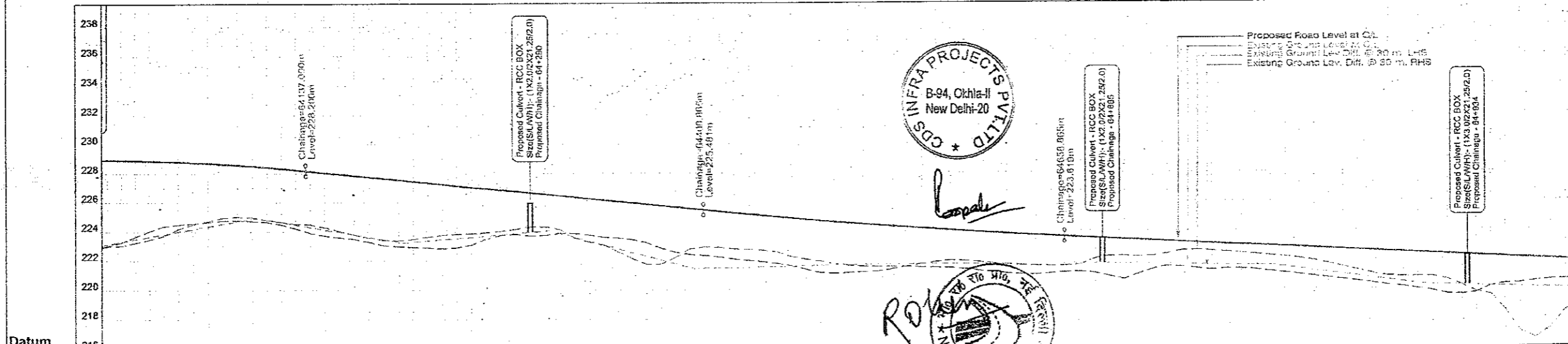


Boopale

CLIENT:- National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- Horizontal= 1:2000 Vertical= 1:200	DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 63+000 TO KM. 64+000)	DRAWING No :- CPC/P-152/BM/EXP./FR/P&P/64A DATE : AUGUST 2016 Revision: R0 PREPARED BY: R.K.JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARAMSIR APPROVED BY: S.K.SINHA
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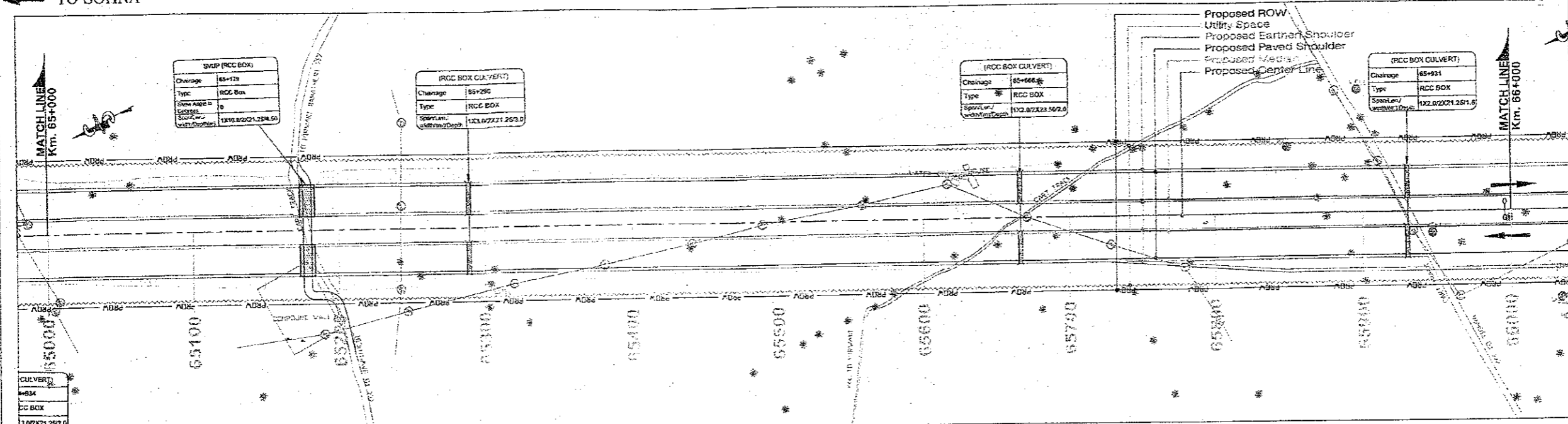


PROPOSED LEGEND	
HIP LINE	—
PROP. CL	—
MEDIAN	—
EDGE STRIP	—
PROP. CW	—
PROP. E/S	—
UTILITY SPACE	—
PROW	— P ROW
PROP. CH	—
MATCH LINE	—
PRO. ROAD LEVEL AT CIL OF CM	—
Ground/Road Level at CIL of Ex. CM	—
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CIL	—
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CIL	—
SUPER ELEVATION	Q
GRADIENT	G
GRID	—



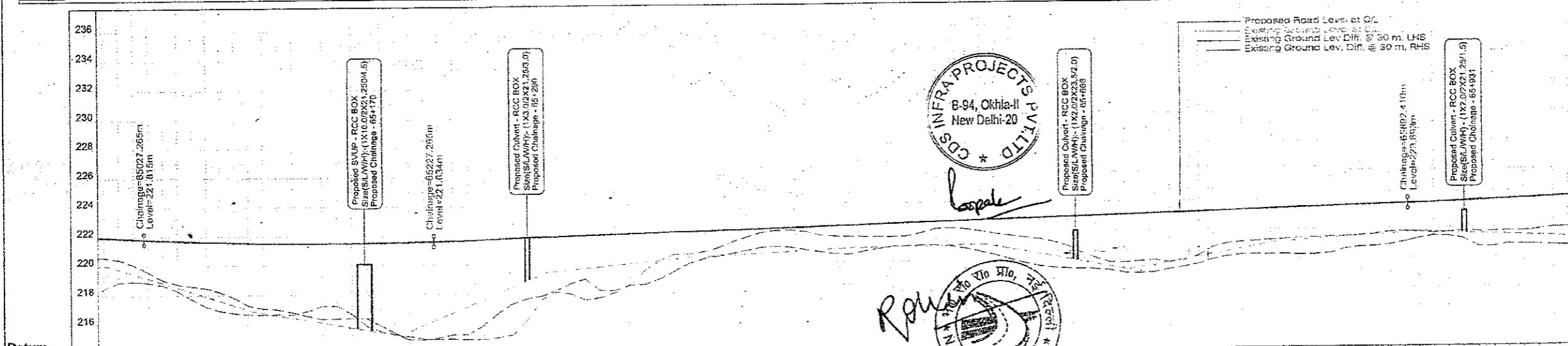
EXISTING LEGEND	
BRIDGE	—
BRANCH ROAD	—
BUILDING / STRUCTURE	—
BUS STOP	—
BOUNDARY WALL	—
CENTER LINE	—
CULVERT	—
DRAIN	—
ELECTRIC POLE	—
EX ROW	— EX ROW
EXISTING ROAD	—
GATE	—
HAND PUMP	—
HUT	—
KILOMETER STONE	—
LAMP POST	—
MEDIAN	—
OFC	—
PILLAR	—
PETROL PUMP	—
RIVER/NALA	—
RAILWAY TRACK	—
ROW PILLAR	—
SIGN BOARD	—
TELEPHONE POLE	—
TEMPLE	—
TRANSFORMER	—
TOILET	—
TOWER	—
WARE HOUSE	—
TREE	—

Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT CIL OF EX. CM (LHS) FROM CIL	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CIL	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CIL	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CIL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSS-FALL (%)	PROPOSED CHAINAGE (MTR.)
216	228.531	228.531	5.932	5.932			0	64000.0
	228.932	228.932	5.908	5.908			0	64010.0
	229.314	229.314	5.269	5.269			0	64020.0
	229.699	229.699	4.832	4.832			0	64030.0
	229.865	229.865	4.471	4.471			0	64040.0
	229.816	229.816	4.333	4.333			0	64050.0
	229.772	229.772	4.197	4.197			0	64060.0
	229.721	229.721	4.068	4.068			0	64070.0
	229.652	229.652	3.904	3.904			0	64080.0
	229.596	229.596	3.798	3.798			0	64090.0
	229.446	229.446	3.771	3.771			0	64100.0
	229.386	229.386	3.874	3.874			0	64120.0
	229.289	229.289	4.048	4.048			0	64130.0
	229.170	229.170	4.248	4.248			0	64140.0
	229.070	229.070	4.338	4.338			0	64150.0
	228.970	228.970	4.363	4.363			0	64160.0
	228.870	228.870	4.366	4.366			0	64170.0
	228.770	228.770	4.473	4.473			0	64180.0
	228.670	228.670	4.611	4.611			0	64190.0
	228.570	228.570	4.864	4.864			0	64200.0
	228.470	228.470	4.528	4.528			0	64210.0
	228.370	228.370	4.402	4.402			0	64220.0
	228.270	228.270	4.422	4.422			0	64230.0
	228.170	228.170	4.246	4.246			0	64240.0
	228.070	228.070	3.860	3.860			0	64250.0
	227.970	227.970	3.489	3.489			0	64260.0
	227.870	227.870	3.143	3.143			0	64270.0
	227.770	227.770	2.817	2.817			0	64280.0
	227.670	227.670	2.522	2.522			0	64290.0
	227.570	227.570	2.264	2.264			0	64300.0
	227.470	227.470	2.047	2.047			0	64310.0
	227.370	227.370	1.874	1.874			0	64320.0
	227.270	227.270	1.746	1.746			0	64330.0
	227.170	227.170	1.664	1.664			0	64340.0
	227.070	227.070	1.627	1.627			0	64350.0
	226.970	226.970	1.642	1.642			0	64360.0
	226.870	226.870	1.704	1.704			0	64370.0
	226.770	226.770	1.814	1.814			0	64380.0
	226.670	226.670	1.969	1.969			0	64390.0
	226.570	226.570	2.164	2.164			0	64400.0
	226.470	226.470	2.397	2.397			0	64410.0
	226.370	226.370	2.673	2.673			0	64420.0
	226.270	226.270	2.995	2.995			0	64430.0
	226.170	226.170	3.366	3.366			0	64440.0
	226.070	226.070	3.784	3.784			0	64450.0
	225.970	225.970	4.248	4.248			0	64460.0
	225.870	225.870	4.756	4.756			0	64470.0
	225.770	225.770	5.306	5.306			0	64480.0
	225.670	225.670	5.896	5.896			0	64490.0
	225.570	225.570	6.524	6.524			0	64500.0
	225.470	225.470	7.188	7.188			0	64510.0
	225.370	225.370	7.886	7.886			0	64520.0
	225.270	225.270	8.616	8.616			0	64530.0
	225.170	225.170	9.376	9.376			0	64540.0
	225.070	225.070	10.164	10.164			0	64550.0
	224.970	224.970	10.978	10.978			0	64560.0
	224.870	224.870	11.816	11.816			0	64570.0
	224.770	224.770	12.676	12.676			0	64580.0
	224.670	224.670	13.556	13.556			0	64590.0
	224.570	224.570	14.454	14.454			0	64600.0
	224.470	224.470	15.368	15.368			0	64610.0
	224.370	224.370	16.296	16.296			0	64620.0
	224.270	224.270	17.236	17.236			0	64630.0
	224.170	224.170	18.186	18.186			0	64640.0
	224.070	224.070	19.154	19.154			0	64650.0
	223.970	223.970	20.138	20.138			0	64660.0
	223.870	223.870	21.136	21.136			0	64670.0
	223.770	223.770	22.146	22.146			0	64680.0
	223.670	223.670	23.166	23.166			0	64690.0
	223.570	223.570	24.194	24.194			0	64700.0
	223.470	223.470	25.228	25.228			0	64710.0
	223.370	223.370	26.266	26.266			0	64720.0
	223.270	223.270	27.306	27.306			0	64730.0
	223.170	223.170	28.346	28.346			0	64740.0
	223.070	223.070	29.386	29.386			0	64750.0
	222.970	222.970	30.424	30.424			0	64760.0
	222.870	222.870	31.458	31.458			0	64770.0
	222.770	222.770	32.486	32.486			0	64780.0
	222.670	222.670	33.506	33.506			0	64790.0
	222.570	222.570	34.516	34.516			0	64800.0
	222.470	222.470	35.514	35.514			0	64810.0
	222.370	222.370	36.498	36.498			0	64820.0
	222.270	222.270	37.466	37.466			0	64830.0
	222.170	222.170	38.416	38.416			0	64840.0
	222.070	222.070	39.346	39.346			0	64850.0
	221.970	221.970	40.254	40.254			0	64860.0
	221.870	221.870	41.138	41.138			0	64870.0
	221.770	221.770	41.996	41.996			0	64880.0
	221.670	221.670	42.826	42.826			0	64890.0
	221.570	221.570	43.626	43.626			0	64900.0
	221.470	221.470	44.394	44.394			0	64910.0
	221.370	221.370	45.128	45.128			0	64920.0
	221.270	221.270	45.826	45.826			0	64930.0
	221.170	221.170	46.486	46.486			0	64940.0
	221.070	221.070	47.106	47.106			0	64950.0
	220.970	220.970	47.684	47.684			0	64960.0
	220.870	220.870	48.218	48.218			0	64970.0
	220.770	220.770	48.706	48.706			0	64980.0
	220.670	220.670	49.146	49.146			0	64990.0
	220.570	220.570	49.536	49.536			0	65000.0



PROPOSED LEGEND	
HIP LINE	—
PROP. C/L	—
MEDIAN	—
EDGE STRIP	—
PROP. C/W	—
PROP. E/S	—
UTILITY SPACE	—
PROW	— P ROW —
PROP. CH	—
MATCH LINE	—
PRO. ROAD LEVEL AT C/L OF C/W	—
Ground Road Level at C/L of Ex. C/W	—
EXIST GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	—
EXIST GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	—
SUPER ELEVATION	—
GRADIENT	—
GRID	—

EXISTING LEGEND	
BRIDGE	—
BRANCH ROAD	—
BUILDING / STRUCTURE	—
BUS STOP	—
BOUNDARY WALL	—
CENTER LINE	—
CULVERT	—
DRAIN	—
ELECTRIC POLE	—
EX ROW	— EX ROW —
EXISTING ROAD	—
GATE	—
HAND PUMP	—
HUT	—
KILOMETER STONE	—
LAMP POST	—
MEDIAN	—
DFC	—
PILLAR	—
PETROL PUMP	—
RIVER/NALA	—
RAILWAY TRACK	—
ROW PILLAR	—
SIGN BOARD	—
TELEPHONE POLE	—
TEMPLE	—
TRANSFORMER	—
TOILET	—
TOWER	—
WARE HOUSE	—
TREE	—



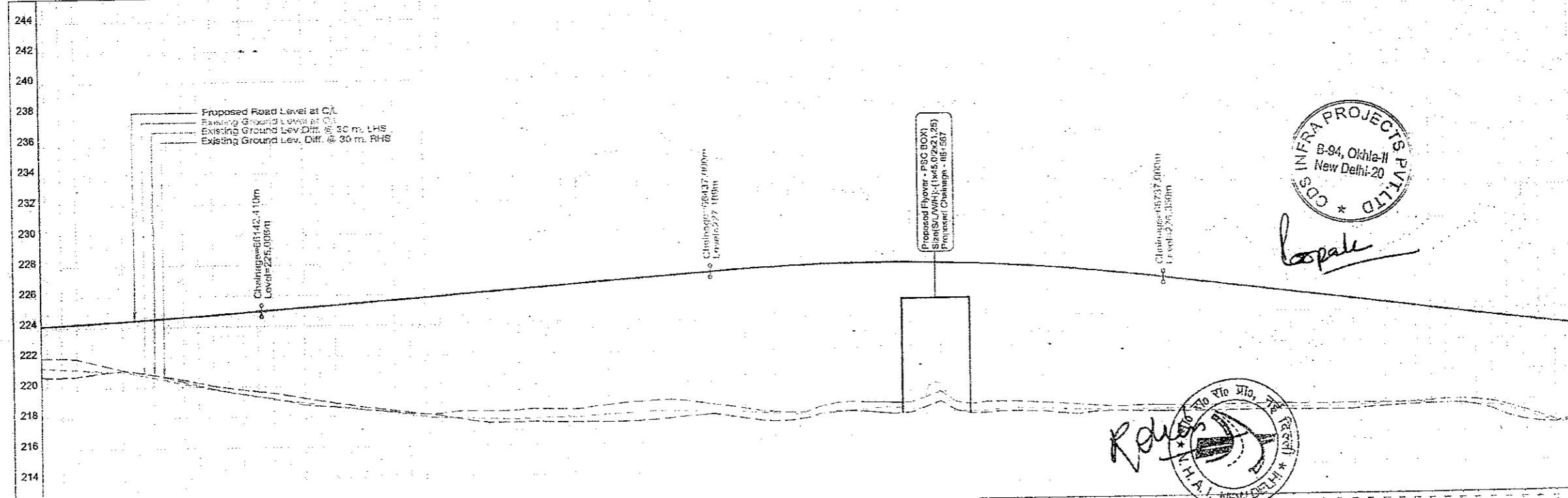
Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT C/L OF EXISTING ROAD (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)
236	221.848	219.273	3.482	1.305			
234	221.689	219.795	3.024	1.473			
232	221.680	219.493	2.895	1.703			
230	221.755	219.196	2.895	2.219			
228	221.713	218.905	3.083	2.730			
226	221.676	218.719	3.462	2.913			
224	221.642	218.537	3.942	3.071			
222	221.612	218.366	4.430	3.161			
220	221.586	218.204	4.687	3.409			
218	221.564	218.054	4.812	3.703			
216	221.554	217.916	4.884	4.214			
214	221.546	217.793	4.916	4.462			
	221.532	217.686	4.845	4.545			
	221.522	217.597	4.697	4.728			
	221.514	217.527	4.617	4.885			
	221.518	217.476	4.593	5.176			
	221.518	217.443	4.593	5.162			
	221.518	217.428	4.593	5.169			
	221.518	217.431	4.593	5.127			
	221.518	217.443	4.593	5.649			
	221.518	217.467	4.593	6.173			
	221.518	217.505	4.593	6.623			
	221.518	217.552	4.593	7.092			
	221.518	217.604	4.593	7.406			
	221.518	217.668	4.593	7.634			
	221.518	217.741	4.593	7.777			
	221.518	217.821	4.593	7.824			
	221.518	217.907	4.593	7.871			
	221.518	218.000	4.593	7.918			
	221.518	218.100	4.593	7.965			
	221.518	218.207	4.593	8.012			
	221.518	218.321	4.593	8.059			
	221.518	218.441	4.593	8.106			
	221.518	218.567	4.593	8.153			
	221.518	218.700	4.593	8.200			
	221.518	218.839	4.593	8.247			
	221.518	218.984	4.593	8.294			
	221.518	219.135	4.593	8.341			
	221.518	219.292	4.593	8.388			
	221.518	219.455	4.593	8.435			
	221.518	219.624	4.593	8.482			
	221.518	219.799	4.593	8.529			
	221.518	219.980	4.593	8.576			
	221.518	220.167	4.593	8.623			
	221.518	220.360	4.593	8.670			
	221.518	220.559	4.593	8.717			
	221.518	220.764	4.593	8.764			
	221.518	220.975	4.593	8.811			
	221.518	221.192	4.593	8.858			
	221.518	221.415	4.593	8.905			
	221.518	221.644	4.593	8.952			
	221.518	221.879	4.593	9.000			
	221.518	222.120	4.593	9.047			
	221.518	222.367	4.593	9.095			
	221.518	222.620	4.593	9.142			
	221.518	222.879	4.593	9.190			
	221.518	223.144	4.593	9.237			
	221.518	223.415	4.593	9.285			
	221.518	223.692	4.593	9.332			
	221.518	223.975	4.593	9.380			
	221.518	224.264	4.593	9.427			
	221.518	224.559	4.593	9.475			
	221.518	224.860	4.593	9.522			
	221.518	225.167	4.593	9.570			
	221.518	225.480	4.593	9.617			
	221.518	225.799	4.593	9.665			
	221.518	226.124	4.593	9.712			
	221.518	226.455	4.593	9.760			
	221.518	226.792	4.593	9.807			
	221.518	227.135	4.593	9.855			
	221.518	227.484	4.593	9.902			
	221.518	227.839	4.593	9.950			
	221.518	228.199	4.593	10.000			
	221.518	228.564	4.593	10.050			
	221.518	228.934	4.593	10.100			
	221.518	229.309	4.593	10.150			
	221.518	229.689	4.593	10.200			
	221.518	230.074	4.593	10.250			
	221.518	230.464	4.593	10.300			
	221.518	230.859	4.593	10.350			
	221.518	231.259	4.593	10.400			
	221.518	231.664	4.593	10.450			
	221.518	232.074	4.593	10.500			
	221.518	232.489	4.593	10.550			
	221.518	232.909	4.593	10.600			
	221.518	233.334	4.593	10.650			
	221.518	233.764	4.593	10.700			
	221.518	234.199	4.593	10.750			
	221.518	234.639	4.593	10.800			
	221.518	235.084	4.593	10.850			
	221.518	235.534	4.593	10.900			
	221.518	235.989	4.593	10.950			
	221.518	236.449	4.593	11.000			
	221.518	236.914	4.593	11.050			
	221.518	237.384	4.593	11.100			
	221.518	237.859	4.593	11.150			
	221.518	238.339	4.593	11.200			
	221.518	238.824	4.593	11.250			
	221.518	239.314	4.593	11.300			
	221.518	239.809	4.593	11.350			
	221.518	240.309	4.593	11.400			
	221.518	240.814	4.593	11.450			
	221.518	241.324	4.593	11.500			
	221.518	241.839	4.593	11.550			
	221.518	242.359	4.593	11.600			
	221.518	242.884	4.593	11.650			
	221.518	243.414	4.593	11.700			
	221.518	243.949	4.593	11.750			
	221.518	244.489	4.593	11.800			
	221.518	245.034	4.593	11.850			
	221.518	245.584	4.593	11.900			
	221.518	246.139	4.593	11.950			
	221.518	246.699	4.593	12.000			
	221.518	247.264	4.593	12.050			
	221.518	247.834	4.593	12.100			
	221.518	248.409	4.593	12.150			
	221.518	248.989	4.593	12.200			
	221.518	249.574	4.593	12.250			
	221.518	250.164	4.593	12.300			
	221.518	250.759	4.593	12.350			
	221.518	251.359	4.593	12.400			
	221.518	251.964	4.593	12.450			
	221.518	252.574	4.593	12.500			
	221.518	253.189	4.593	12.550			
	221.518	253.809	4.593	12.600			
	221.518	254.434	4.593	12.650			
	221.518	255.064	4.593	12.700			
	221.518	255.699	4.593	12.750			
	221.518	256.339	4.593	12.800			
	221.518	256.984	4.593	12.850			
	221.518	257.634	4.593	12.900			
	221.518	258.289	4.593	12.950			
	221.518	258.949	4.593	13.000			
	221.518	259.614	4.593	13.050			
	221.518	260.284	4.593	13.100			
	221.518	260.959	4.593	13.150			
	221.518	261.639	4.593	13.200			
	221.518	262.324	4.593	13.250			
	221.518	263.014	4.593	13.300			
	221.518	263.709	4.593	13.350			
	221.518	264.409	4.593	13.400			
	221.518	265.114	4.593	13.450			
	221.518	265.824	4.593	13.500			
	221.518	266.539	4.593	13.550			
	221.518	267.259	4.593	13.600			
	221.518	267.984	4.593	13.650			
	221.518	268.714	4.593	13.700			
	221.518	269.449	4.593	13.750			
	221.518	270.189	4.593	13.800			
	221.518	270.934	4.593	13.850			
	221.518	271.684	4.593	13.900			
	221.518	272.439	4.593	13.950			
	221.518	273.199	4.593	14.000			
	221.518	273.964	4.593	14.050			
	221.518	274.734	4.593	14.100			
	221.518	275.509	4.593	14.150			
	221.518	276.289	4.593	14.200			

PROPOSED LEGEND

HIP LINE	
PROP. CA	
MEDIAN	
EDGE STRIP	
PROP. CAW	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF CAW	
Ground/Road Level at C/L of Ex. CAW	
EXIS. GROUND LEV. DIFF. @ 30 M (LHS)	
FROM C/L	
EXIS. GROUND LEV. DIFF. @ 30 M (RHS)	
FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RAILWAY	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT C/L OF EXISTING ROADWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR)
212	224.125	221.300	2.180	3.407				66000.0
	224.176	221.341	2.184	3.454				66010.0
	224.228	221.393	2.246	3.474				66020.0
	224.282	221.447	2.586	3.303				66030.0
	224.337	221.502	2.507	3.287				66040.0
	224.391	221.556	3.262	3.252				66050.0
	224.446	221.611	3.302	3.444				66060.0
	224.514	221.666	3.417	3.667				66070.0
	224.454	221.721	3.569	3.805				66080.0
	224.617	221.776	3.989	3.805				66090.0
	224.774	221.831	4.274	4.136				66100.0
	224.844	221.886	4.583	4.408				66110.0
	224.916	221.941	4.989	4.694				66120.0
	224.988	222.000	5.168	5.103				66130.0
	225.062	222.059	5.367	5.297				66140.0
	225.136	222.118	5.640	5.481				66150.0
	225.210	222.177	5.722	5.722				66160.0
	225.284	222.236	6.134	5.986				66170.0
	225.358	222.295	6.424	6.233				66180.0
	225.432	222.354	6.571	6.457				66190.0
	225.506	222.413	6.678	6.807				66200.0
	225.580	222.472	6.878	6.807				66210.0
	225.654	222.531	7.073	7.228				66220.0
	225.728	222.590	7.573	7.393				66230.0
	225.802	222.649	7.873	7.484				66240.0
	225.876	222.708	8.173	7.975				66250.0
	225.950	222.767	8.473	8.178				66260.0
	226.024	222.826	8.773	8.411				66270.0
	226.098	222.885	9.073	8.623				66280.0
	226.172	222.944	9.373	8.623				66290.0
	226.246	223.003	9.673	8.781				66300.0
	226.320	223.062	9.973	8.781				66310.0
	226.394	223.121	10.173	8.917				66320.0
	226.468	223.180	10.373	9.012				66330.0
	226.542	223.239	10.573	9.195				66340.0
	226.616	223.298	10.773	9.491				66350.0
	226.690	223.357	10.973	9.491				66360.0
	226.764	223.416	11.173	9.260				66370.0
	226.838	223.475	11.373	9.260				66380.0
	226.912	223.534	11.573	9.260				66390.0
	226.986	223.593	11.773	9.385				66400.0
	227.060	223.652	11.973	9.385				66410.0
	227.134	223.711	12.173	9.385				66420.0
	227.208	223.770	12.373	9.385				66430.0
	227.282	223.829	12.573	9.385				66440.0
	227.356	223.888	12.773	9.385				66450.0
	227.430	223.947	12.973	9.385				66460.0
	227.504	224.006	13.173	9.385				66470.0
	227.578	224.065	13.373	9.385				66480.0
	227.652	224.124	13.573	9.385				66490.0
	227.726	224.183	13.773	9.385				66500.0
	227.800	224.242	13.973	9.385				66510.0
	227.874	224.301	14.173	9.385				66520.0
	227.948	224.360	14.373	9.385				66530.0
	228.022	224.419	14.573	9.385				66540.0
	228.096	224.478	14.773	9.385				66550.0
	228.170	224.537	14.973	9.385				66560.0
	228.244	224.596	15.173	9.385				66570.0
	228.318	224.655	15.373	9.385				66580.0
	228.392	224.714	15.573	9.385				66590.0
	228.466	224.773	15.773	9.385				66600.0
	228.540	224.832	15.973	9.385				66610.0
	228.614	224.891	16.173	9.385				66620.0
	228.688	224.950	16.373	9.385				66630.0
	228.762	225.009	16.573	9.385				66640.0
	228.836	225.068	16.773	9.385				66650.0
	228.910	225.127	16.973	9.385				66660.0
	228.984	225.186	17.173	9.385				66670.0
	229.058	225.245	17.373	9.385				66680.0
	229.132	225.304	17.573	9.385				66690.0
	229.206	225.363	17.773	9.385				66700.0
	229.280	225.422	17.973	9.385				66710.0
	229.354	225.481	18.173	9.385				66720.0
	229.428	225.540	18.373	9.385				66730.0
	229.502	225.599	18.573	9.385				66740.0
	229.576	225.658	18.773	9.385				66750.0
	229.650	225.717	18.973	9.385				66760.0
	229.724	225.776	19.173	9.385				66770.0
	229.798	225.835	19.373	9.385				66780.0
	229.872	225.894	19.573	9.385				66790.0
	229.946	225.953	19.773	9.385				66800.0
	230.020	226.012	19.973	9.385				66810.0
	230.094	226.071	20.173	9.385				66820.0
	230.168	226.130	20.373	9.385				66830.0
	230.242	226.189	20.573	9.385				66840.0
	230.316	226.248	20.773	9.385				66850.0
	230.390	226.307	20.973	9.385				66860.0
	230.464	226.366	21.173	9.385				66870.0
	230.538	226.425	21.373	9.385				66880.0
	230.612	226.484	21.573	9.385				66890.0
	230.686	226.543	21.773	9.385				66900.0
	230.760	226.602	21.973	9.385				66910.0
	230.834	226.661	22.173	9.385				66920.0
	230.908	226.720	22.373	9.385				66930.0
	230.982	226.779	22.573	9.385				66940.0
	231.056	226.838	22.773	9.385				66950.0
	231.130	226.897	22.973	9.385				66960.0
	231.204	226.956	23.173	9.385				66970.0
	231.278	227.015	23.373	9.385				66980.0
	231.352	227.074	23.573	9.385				66990.0
	231.426	227.133	23.773	9.385				67000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472. FAX: 0120-4110472

PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

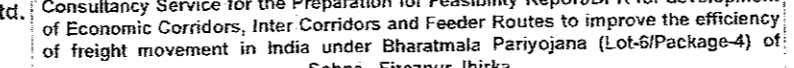
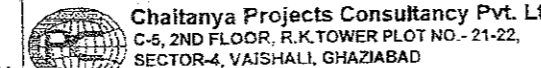
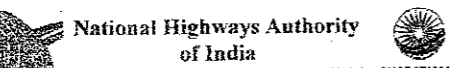
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DWG TITLE:- PLAN & PROFILE [SOHNA - FIROZPUR JHIRKA] (KM. 66+000 TO KM. 67+000)

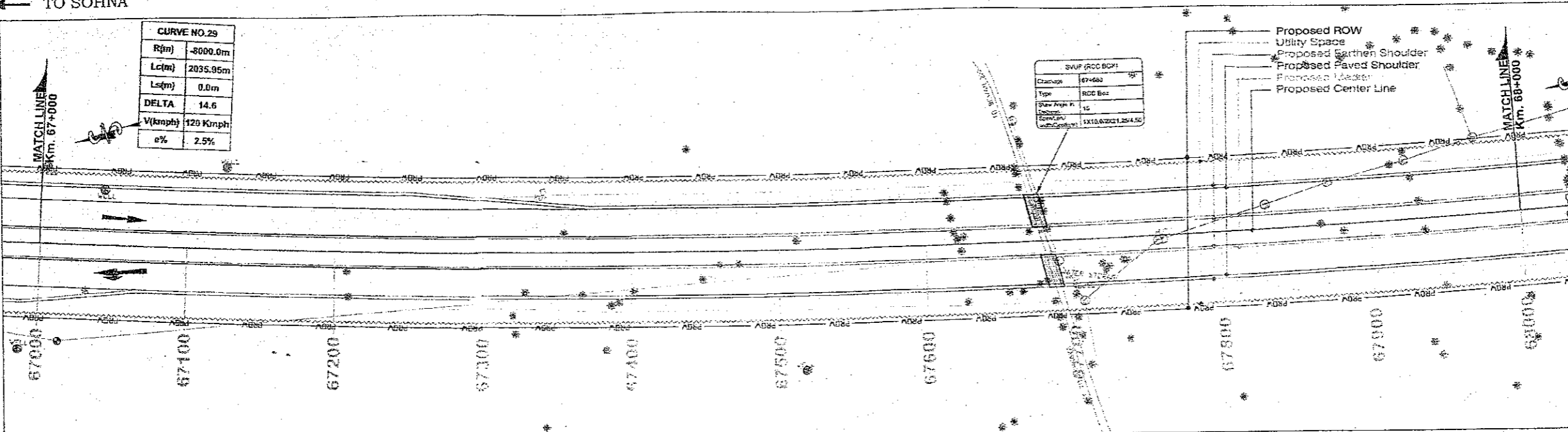
DRAWING No :- CPC/P-152/BM/EXP/JFR/P&P/47

DATE : AUGUST 2016 Revision: R1

PREPARED BY: R.K.JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARANATHR APPROVED BY: S.K.SENHA

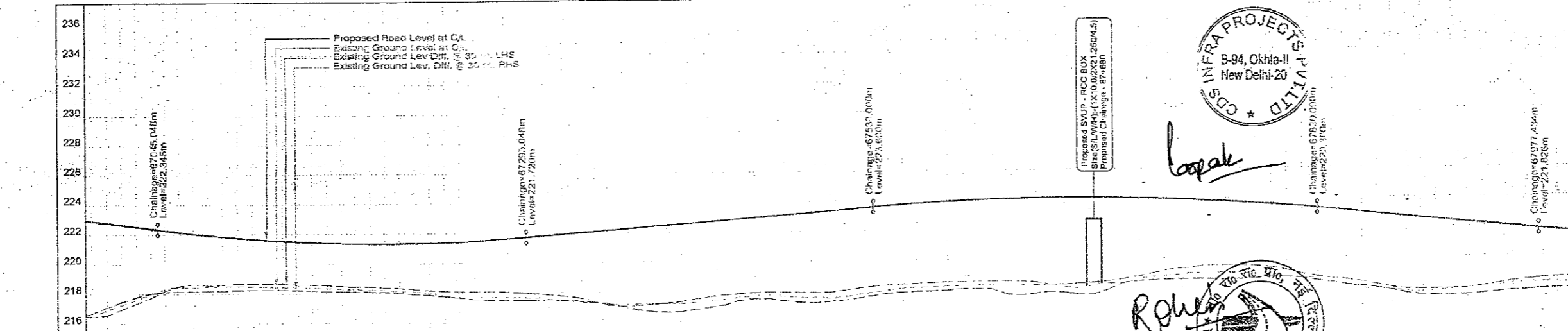


TO SOHNA ← TO FIROZPUR JHIRKA →



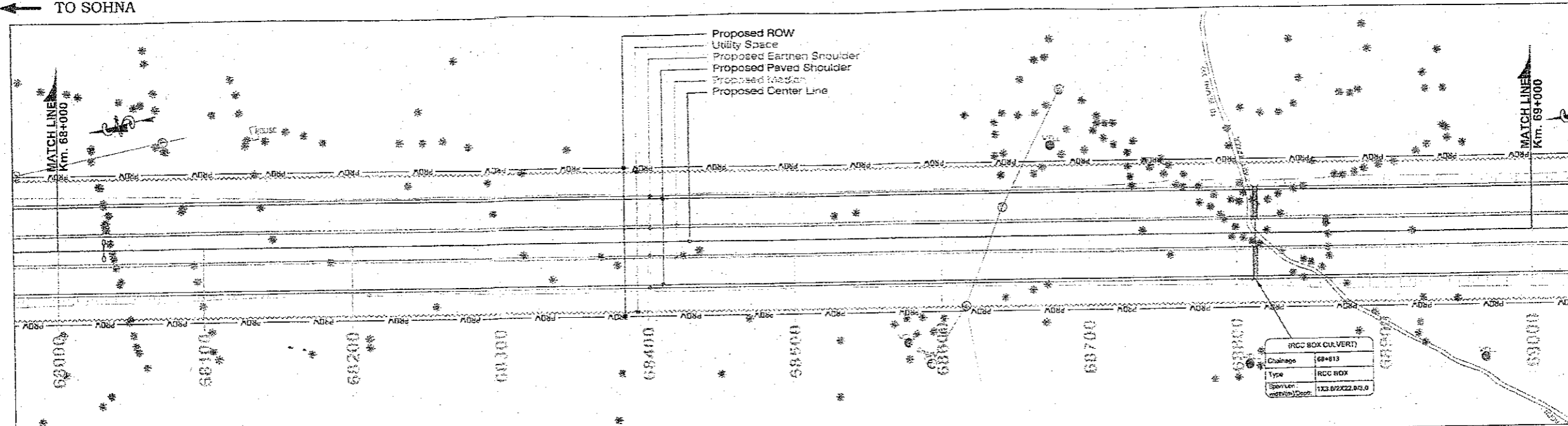
PROPOSED LEGEND	
HIP LINE	---
PROP. CL	---
MEDIAN	---
EDGE STRIP	---
PROP. CAV	---
PROP. E/S	---
UTILITY SPACE	---
PROW	---
PROP. CH	---
MATCH LINE	---
PRO. ROAD LEVEL AT CL OF C/W	---
Ground/Read Level at CL of Ex.C/W	---
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	---
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	---
SUPER ELEVATION	---
GRADIENT	G
GRID	---

EXISTING LEGEND	
BRIDGE	---
BRANCH ROAD	---
BUILDINGS / STRUCTURE	---
BUS STOP	---
BOUNDARY WALL	---
CENTER LINE	---
CULVERT	---
DRAIN	---
ELECTRIC POLE	---
EX ROW	---
EXISTING ROAD	---
GATE	---
HAND PUMP	---
HUT	---
KILOMETER STONE	---
LAMP POST	---
MEDIAN	---
OFC	---
PILLAR	---
PETROL PUMP	---
RIVER/NALA	---
RAILWAY TRACK	---
ROW PILLAR	---
SIGN BOARD	---
TELEPHONE POLE	---
TEMPLE	---
TRANSFORMER	---
TOILET	---
TOWER	---
WARE HOUSE	---
TREE	---



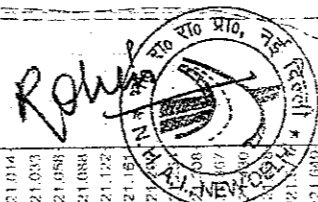
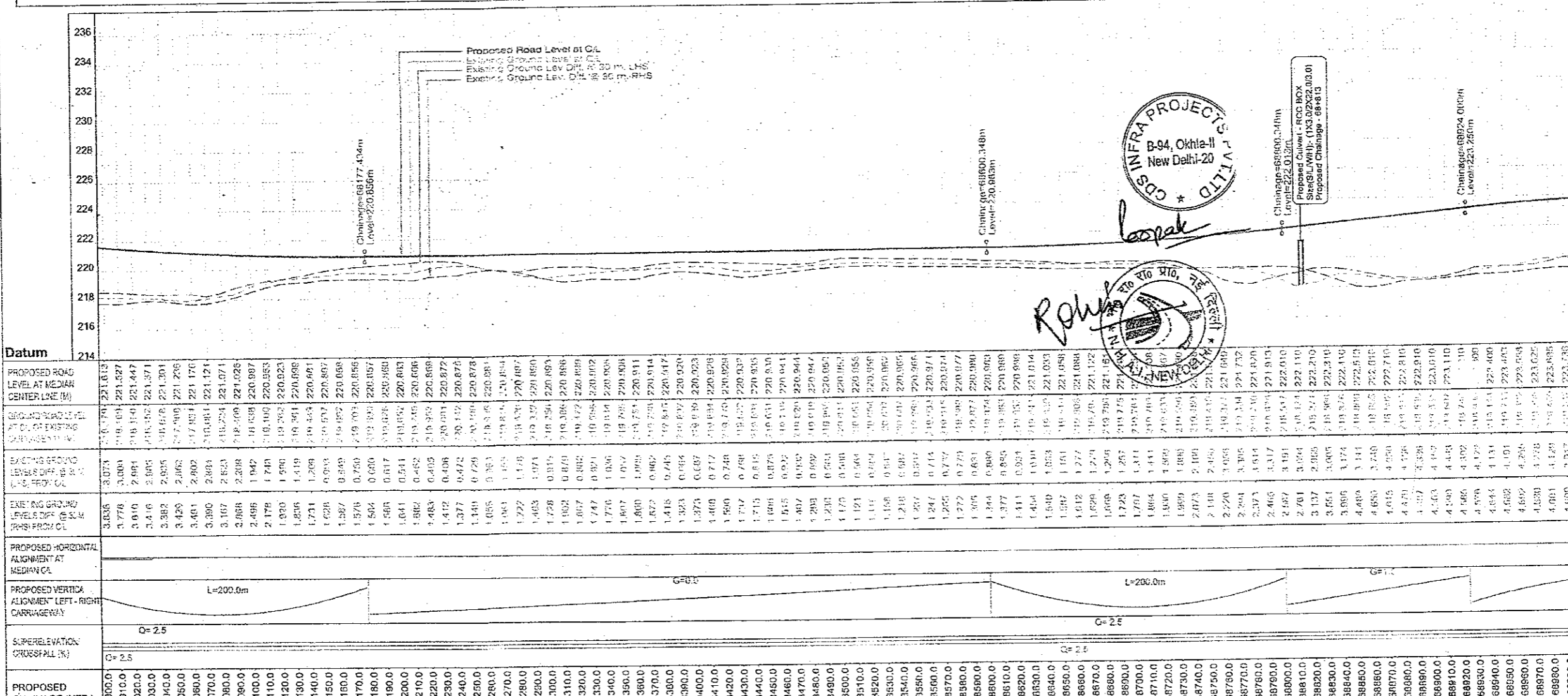
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)
R=8000.0m L=2035.95m	L=250.0m G=1.5	G=2.5

PROPOSED CHAINAGE (MTR.)	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (m)	EXISTING GROUND LEVEL (m)	EXISTING GROUND LEV. DIFF. @ 30 M (LHS) (m)	EXISTING GROUND LEV. DIFF. @ 30 M (RHS) (m)
67000.0	222.931	216.546	6.451	6.226
67010.0	222.831	216.913	5.918	5.691
67020.0	222.671	217.287	5.384	5.153
67030.0	222.541	217.671	4.873	4.753
67040.0	222.411	218.075	4.385	4.311
67050.0	222.282	218.509	3.922	3.880
67060.0	222.160	218.965	3.485	3.430
67070.0	222.047	219.443	3.064	3.002
67080.0	221.942	219.943	2.664	2.635
67090.0	221.846	220.465	2.281	2.329
67100.0	221.758	221.009	1.915	2.042
67110.0	221.678	221.575	1.565	1.825
67120.0	221.607	222.163	1.234	1.665
67130.0	221.544	222.773	0.921	1.558
67140.0	221.488	223.405	0.628	1.495
67150.0	221.439	224.059	0.354	1.476
67160.0	221.397	224.735	0.103	1.491
67170.0	221.361	225.433	0.074	1.539
67180.0	221.330	226.153	0.082	1.619
67190.0	221.303	226.894	0.120	1.728
67200.0	221.281	227.656	0.183	1.863
67210.0	221.263	228.439	0.271	2.021
67220.0	221.250	229.243	0.384	2.200
67230.0	221.241	230.068	0.521	2.400
67240.0	221.236	230.914	0.682	2.619
67250.0	221.235	231.781	0.867	2.855
67260.0	221.238	232.669	1.076	3.106
67270.0	221.244	233.578	1.309	3.371
67280.0	221.253	234.508	1.566	3.650
67290.0	221.264	235.459	1.847	3.942
67300.0	221.277	236.431	2.152	4.247
67310.0	221.291	237.424	2.481	4.564
67320.0	221.306	238.438	2.834	4.892
67330.0	221.322	239.473	3.211	5.230
67340.0	221.338	240.529	3.612	5.577
67350.0	221.355	241.606	4.037	5.932
67360.0	221.372	242.704	4.486	6.294
67370.0	221.390	243.823	4.959	6.662
67380.0	221.408	244.963	5.456	7.036
67390.0	221.426	246.124	5.977	7.415
67400.0	221.444	247.305	6.522	7.798
67410.0	221.462	248.506	7.091	8.184
67420.0	221.480	249.727	7.684	8.572
67430.0	221.498	250.968	8.291	8.962
67440.0	221.515	252.229	8.912	9.353
67450.0	221.532	253.510	9.547	9.745
67460.0	221.549	254.811	10.196	10.138
67470.0	221.566	256.132	10.859	10.532
67480.0	221.582	257.473	11.536	10.927
67490.0	221.598	258.834	12.227	11.322
67500.0	221.614	260.215	12.932	11.717
67510.0	221.629	261.616	13.651	12.112
67520.0	221.644	263.037	14.384	12.507
67530.0	221.658	264.478	15.131	12.902
67540.0	221.672	265.939	15.892	13.297
67550.0	221.686	267.420	16.667	13.692
67560.0	221.699	268.921	17.456	14.087
67570.0	221.712	270.442	18.259	14.482
67580.0	221.724	271.983	19.076	14.877
67590.0	221.736	273.544	19.907	15.272
67600.0	221.747	275.125	20.752	15.667
67610.0	221.758	276.726	21.611	16.062
67620.0	221.768	278.347	22.484	16.457
67630.0	221.778	280.000	23.371	16.852
67640.0	221.787	281.673	24.272	17.247
67650.0</				



PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex.C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS)	
EXIS GROUND LEV. DIFF. @ 30 M (RHS)	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDINGS / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



CLIENT:-
National Highways Authority of India
(Ministry of Road, Transport & Highways, Govt. of India)

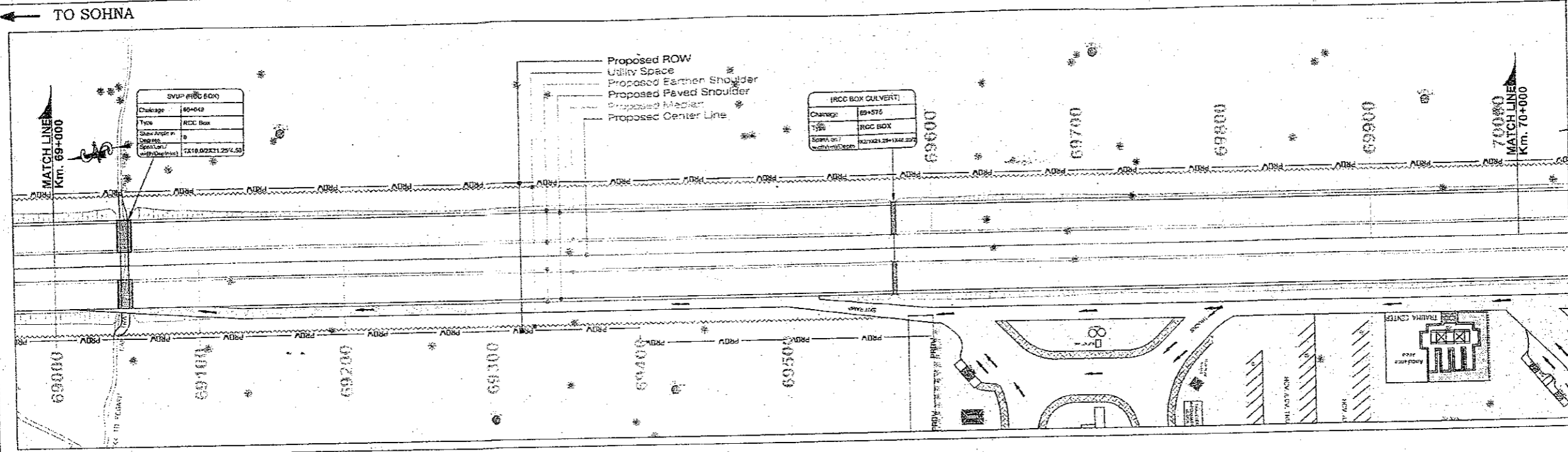
CONSULTANT:-
Chaitanya Projects Consultancy Pvt. Ltd.
C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22,
SECTOR-4, VAISHALI, GHAZIABAD
PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-
Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE:-
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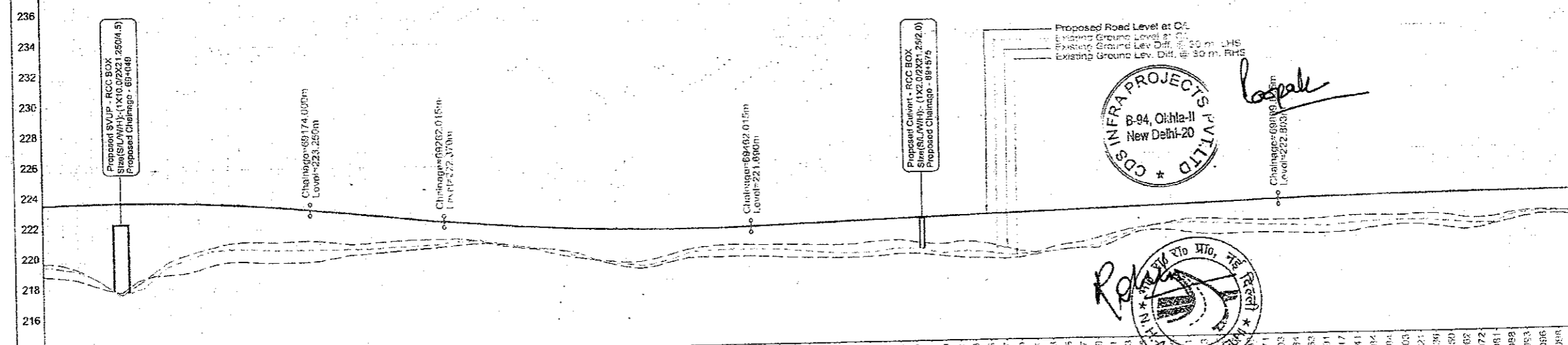
DWG TITLE:-
PLAN & PROFILE
(SOHNA - FIROZPUR JHIRKA)
(KM. 68+000 TO KM. 69+000)

DRAWING No. CPC/P-152/BM/EXP/JR/P&P/69			
DATE: AUGUST 2018	DESIGNED BY: SANTOSHI	CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA
PREPARED BY: R.R.JALANDRA	DESIGNED BY: SANTOSHI	CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA



HIP LINE	
PROP. CAL	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT CAL OF CM	
Ground/Road Level at CAL of Ex. C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

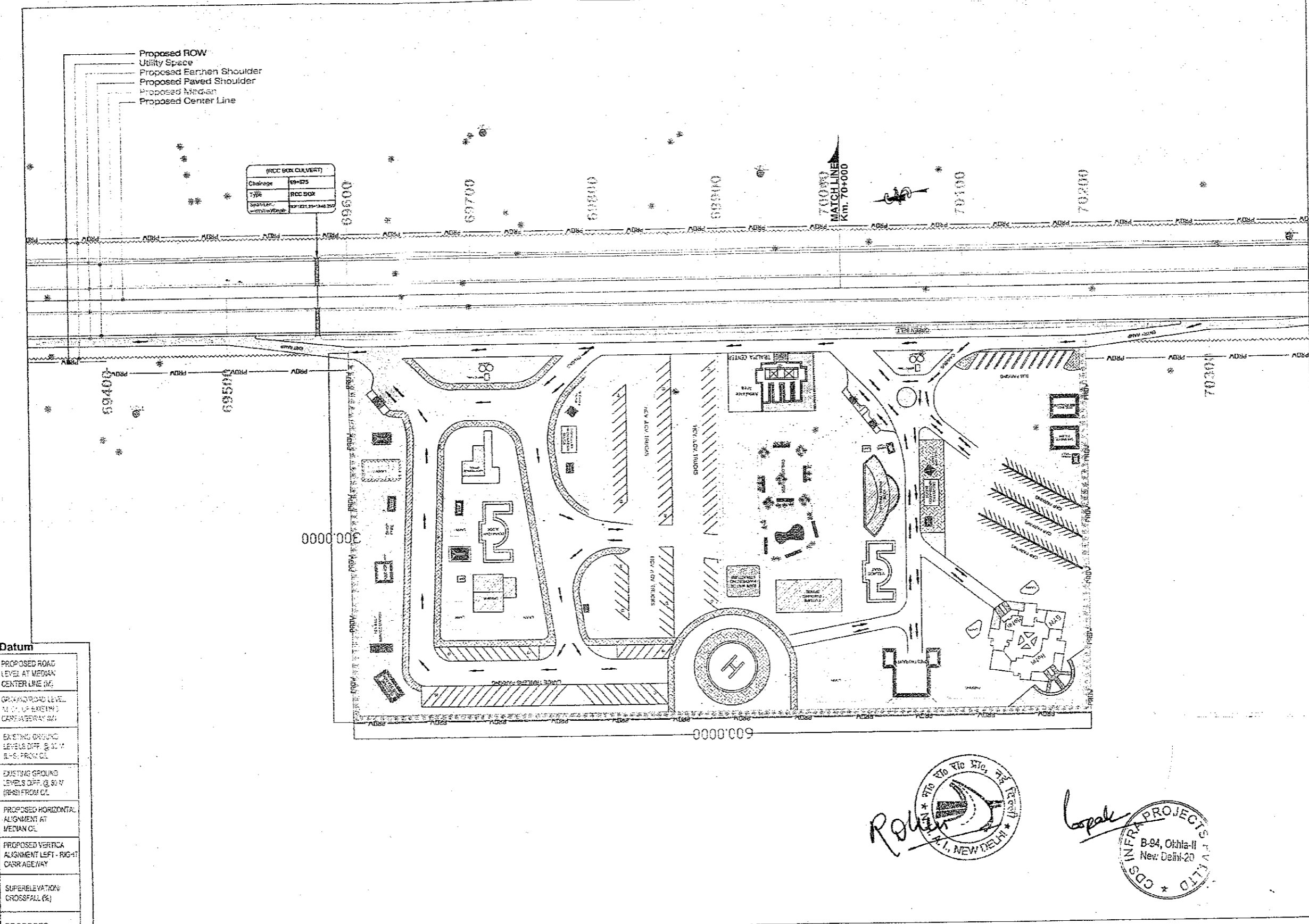
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	EXISTING GROUND LEVEL AT CAL OF EXISTING CENTERLINE (M)	EXISTING GROUND LEVELS DIFF. @ 30M (RHS) FROM CL	EXISTING GROUND LEVELS DIFF. @ 30M (LHS) FROM CL	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)
223.778	219.511	4.267	4.267			
223.814	219.547	4.267	4.267			
223.841	219.573	4.268	4.268			
223.861	219.592	4.269	4.269			
223.875	219.607	4.268	4.268			
223.875	219.607	4.268	4.268			
223.870	219.602	4.268	4.268			
223.857	219.589	4.268	4.268			
223.837	219.569	4.268	4.268			
223.813	219.545	4.268	4.268			
223.785	219.517	4.268	4.268			
223.753	219.485	4.268	4.268			
223.717	219.449	4.268	4.268			
223.677	219.409	4.268	4.268			
223.633	219.365	4.268	4.268			
223.585	219.317	4.268	4.268			
223.533	219.265	4.268	4.268			
223.477	219.209	4.268	4.268			
223.417	219.149	4.268	4.268			
223.353	219.085	4.268	4.268			
223.285	219.017	4.268	4.268			
223.213	218.945	4.268	4.268			
223.137	218.869	4.268	4.268			
223.057	218.789	4.268	4.268			
222.973	218.705	4.268	4.268			
222.885	218.617	4.268	4.268			
222.793	218.525	4.268	4.268			
222.697	218.429	4.268	4.268			
222.597	218.329	4.268	4.268			
222.493	218.225	4.268	4.268			
222.385	218.117	4.268	4.268			
222.273	218.005	4.268	4.268			
222.157	217.889	4.268	4.268			
222.037	217.769	4.268	4.268			
221.913	217.645	4.268	4.268			
221.785	217.517	4.268	4.268			
221.653	217.385	4.268	4.268			
221.517	217.249	4.268	4.268			
221.377	217.109	4.268	4.268			
221.233	216.965	4.268	4.268			
221.085	216.817	4.268	4.268			
220.933	216.665	4.268	4.268			
220.777	216.509	4.268	4.268			
220.617	216.349	4.268	4.268			
220.453	216.185	4.268	4.268			
220.285	216.017	4.268	4.268			
220.113	215.845	4.268	4.268			
219.937	215.669	4.268	4.268			
219.757	215.489	4.268	4.268			
219.573	215.305	4.268	4.268			
219.385	215.117	4.268	4.268			
219.193	214.925	4.268	4.268			
219.005	214.729	4.268	4.268			
218.813	214.529	4.268	4.268			
218.617	214.325	4.268	4.268			
218.417	214.117	4.268	4.268			
218.213	213.905	4.268	4.268			
218.005	213.689	4.268	4.268			
217.793	213.469	4.268	4.268			
217.577	213.245	4.268	4.268			
217.357	213.017	4.268	4.268			
217.133	212.785	4.268	4.268			
216.905	212.549	4.268	4.268			
216.673	212.309	4.268	4.268			
216.437	212.065	4.268	4.268			
216.197	211.817	4.268	4.268			
215.953	211.565	4.268	4.268			
215.705	211.309	4.268	4.268			
215.453	211.049	4.268	4.268			
215.197	210.785	4.268	4.268			
214.937	210.517	4.268	4.268			
214.673	210.245	4.268	4.268			
214.405	209.969	4.268	4.268			
214.133	209.689	4.268	4.268			
213.857	209.405	4.268	4.268			
213.577	209.117	4.268	4.268			
213.293	208.825	4.268	4.268			
213.005	208.529	4.268	4.268			
212.713	208.229	4.268	4.268			
212.417	207.925	4.268	4.268			
212.117	207.617	4.268	4.268			
211.813	207.305	4.268	4.268			
211.505	206.989	4.268	4.268			
211.193	206.669	4.268	4.268			
210.877	206.345	4.268	4.268			
210.557	206.017	4.268	4.268			
210.233	205.685	4.268	4.268			
209.905	205.349	4.268	4.268			
209.573	205.009	4.268	4.268			
209.237	204.665	4.268	4.268			
208.897	204.317	4.268	4.268			
208.553	203.965	4.268	4.268			
208.205	203.609	4.268	4.268			
207.853	203.249	4.268	4.268			
207.497	202.885	4.268	4.268			
207.137	202.517	4.268	4.268			
206.773	202.145	4.268	4.268			
206.405	201.769	4.268	4.268			
206.033	201.389	4.268	4.268			
205.657	201.005	4.268	4.268			
205.277	200.617	4.268	4.268			
204.893	200.225	4.268	4.268			
204.505	199.829	4.268	4.268			
204.113	199.429	4.268	4.268			
203.717	199.025	4.268	4.268			
203.317	198.617	4.268	4.268			
202.913	198.205	4.268	4.268			
202.505	197.789	4.268	4.268			
202.093	197.369	4.268	4.268			
201.677	196.945	4.268	4.268			
201.257	196.517	4.268	4.268			
200.833	196.085	4.268	4.268			
200.405	195.649	4.268	4.268			
199.973	195.209	4.268	4.268			
199.537	194.765	4.268	4.268			
199.097	194.317	4.268	4.268			
198.653	193.865	4.268	4.268			
198.205	193.409	4.268	4.268			
197.753	192.949	4.268	4.268			
197.297	192.485	4.268	4.268			
196.837	192.017	4.268	4.268			
196.373	191.545	4.268	4.268			
195.905	191.069	4.268	4.268			
195.433	190.589	4.268	4.268			
194.957	190.105	4.268	4.268			
194.477	189.617	4.268	4.268			
193.993	189.125	4.268	4.268			
193.505	188.629	4.268	4.268			
193.013	188.129	4.268	4.268			
192.517	187.625	4.268	4.268			
192.017	187.117	4.268	4.268			
191.513	186.605	4.268	4.268			
191.005	186.089	4.268	4.268			
190.493	185.569	4.268	4.268			
189.977	185.045	4.268	4.268			
189.457	184.517	4.268	4.268			
188.933	183.985	4.268	4.268			
188.405	183.449	4.268	4.268			
187.873	182.909	4.268	4.268			
187.337	182.365	4.268	4.268			
186.797	181.817	4.268	4.268			
186.253	181.265	4.268	4.268			
185.705	180.709	4.268	4.268			
185.153	180.149	4.268	4.268			
184.597	179.585	4.268	4.268			
184.037	179.017	4.268	4.268			
183.473	178.445	4.268	4.268			
182.905	177.869	4.268	4.268			
182.333	177.289	4.268	4.268			
181.757	176.705	4.268	4.268			
181.177	176.117	4.268	4.268			
180.593	175.525	4.268	4.268			
180.005	174.929	4.268	4.268			
179.413	174.329	4.268	4.268			
178.817	173.725	4.268	4.268			
178.217	173.117	4.268	4.268			
177.613	172.505	4.268	4.268			
177.005	171.889	4.268	4.268			
176.393	171.269	4.268	4.268			
175.777	170.645	4.268	4.268			
175.157	170.017	4.268	4.268			
174.533	169.385	4.268	4.268			
173.905	168.749	4.268	4.268			
173.273	168.109	4.268	4.268			
172.637	167.465	4.268	4.268			
171.997	166.817	4.268	4.268			
171.353	166.165	4.268	4.268			
170.705	165.509	4.268	4.268			
170.053	164.849	4.268	4.268			
169.397	164.185	4.268	4.268			
168.737	163.517	4.268	4.268			
168.073	162.845	4.268	4.268			

TO FIROZPUR JHIRKA →

← TO SOHNA



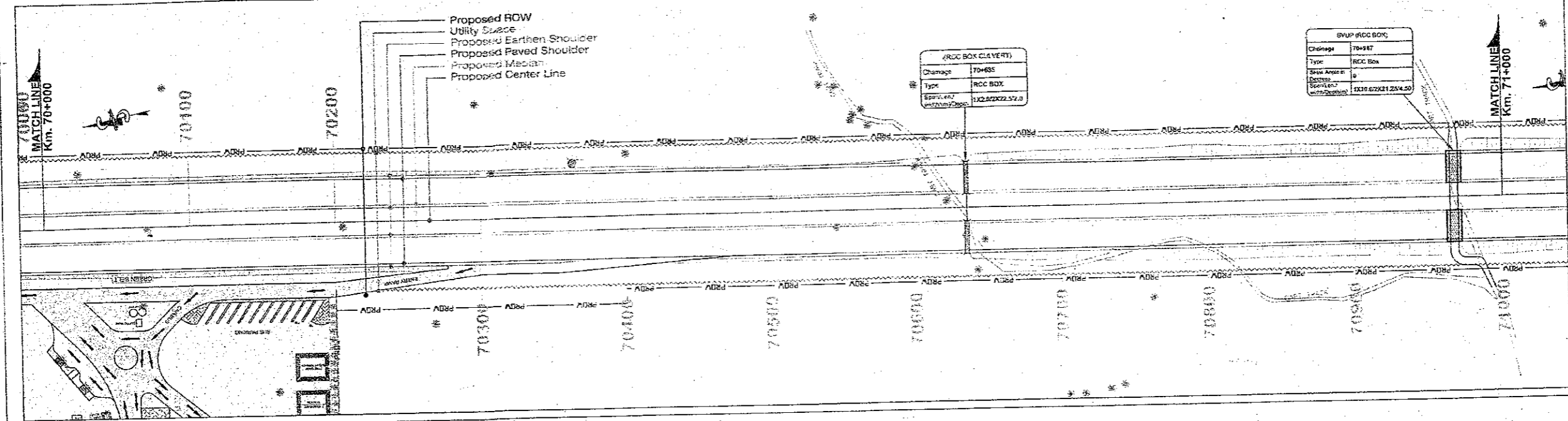
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HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex. C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

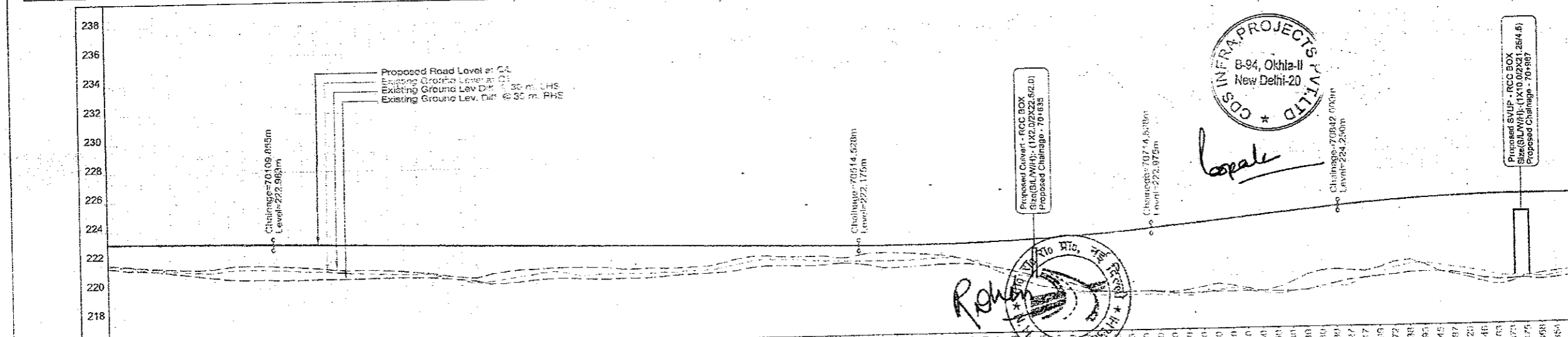
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PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	
GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	
EXISTING GROUND LEVELS DIFF. @ 30 M (L-S) FROM C/L	
EXISTING GROUND LEVELS DIFF. @ 30 M (R-S) FROM C/L	
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CROSSFALL (%)	
SUPERELEVATION CROSSFALL (%)	
PROPOSED CHAINAGE (MTR.)	

Prakash
Chaitanya
 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.
 B-84, Okhla-II, New Delhi-20

CLIENT:- National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- Horizontal= 1:2000 Vertical= 1:200	DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 69-000 TO KM. 70+000)	DRAWING No :- CPC/P-152/BM/EXP./FR/P&P/70A
					DATE : AUGUST 2018 PREPARED BY: R.K. JAI ANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARAMVIR APPROVED BY: S.K. SINHA



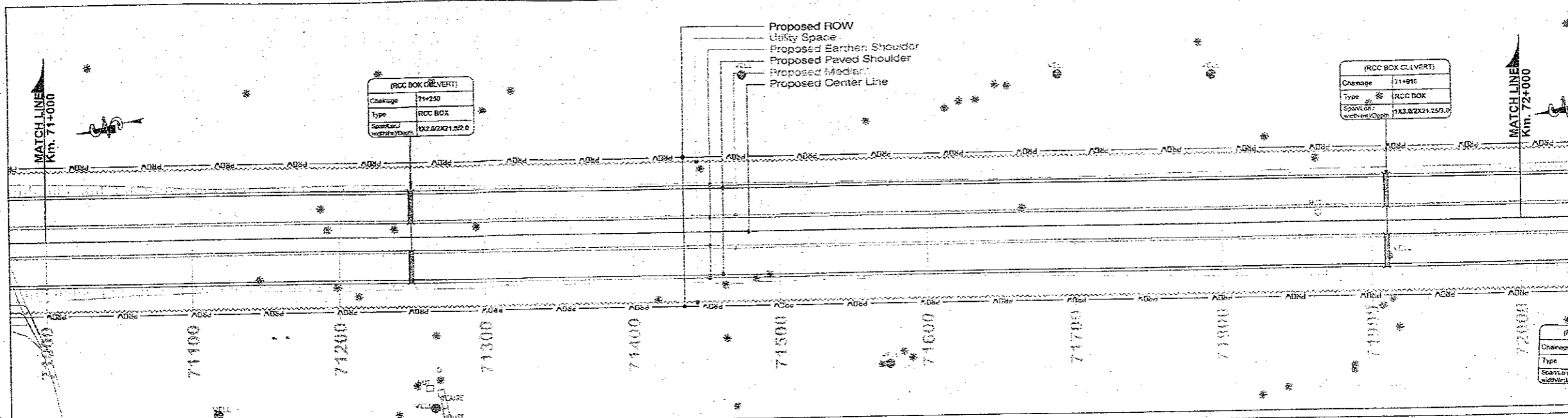
HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. CW	
PROP. ES	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT CL OF CW	
Ground Road Level at CL of Ex. CW	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	



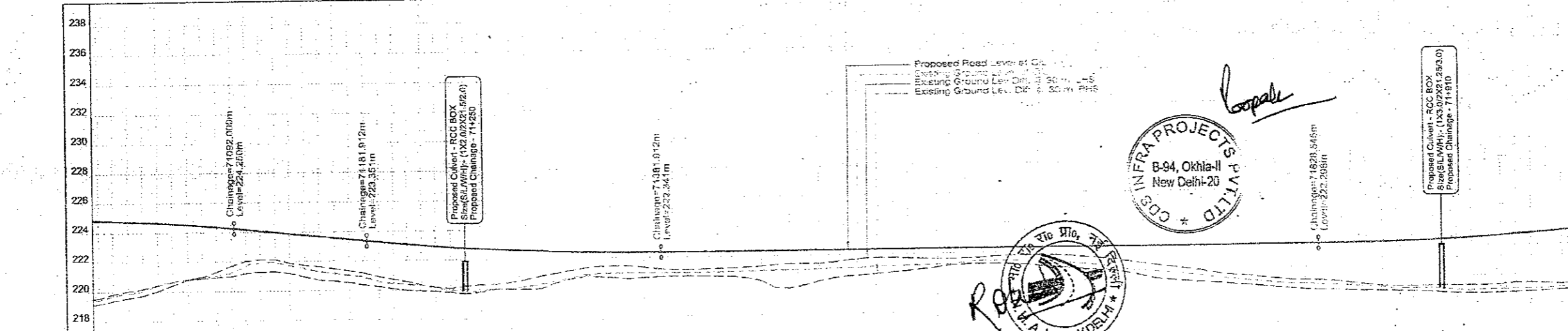
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

Datum	216	218	220	222	224	226	228	230	232	234	236	238
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CL	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CL	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL												
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY												
SUPERELEVATION CROSSFALL (%)												
PROPOSED CHAINAGE (MTR.)	70000.0	70010.0	70020.0	70030.0	70040.0	70050.0	70060.0	70070.0	70080.0	70090.0	70100.0	71000.0

<p>National Highways Authority of India Ministry of Road Transport & Highways, Govt. of India</p>	<p>Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka</p>	<p>SCALE:- Horizontal = 1:2000 Vertical = 1:200</p>	<p>DWG TITLE:- 91 PLAN & PROFILE {SOHNA - FIROZPUR JHIRKA} {KM. 70+000 TO KM. 71+000}</p>	<p>DRAWING No.:- CPC/P-152/IM/EXP./FRP&P/71</p> <table border="1"> <tr> <td>DATE: AUGUST 2018</td> <td>DESIGNED BY: R.K. JALANDRA</td> <td>CHECKED BY: SANTOSH</td> <td>APPROVED BY: S.K. SINHA</td> </tr> </table>	DATE: AUGUST 2018	DESIGNED BY: R.K. JALANDRA	CHECKED BY: SANTOSH	APPROVED BY: S.K. SINHA
DATE: AUGUST 2018	DESIGNED BY: R.K. JALANDRA	CHECKED BY: SANTOSH	APPROVED BY: S.K. SINHA						



PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	P ROW
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
PRO. ROAD LEVEL AT C/L OF EX.D/W	
EXIST. GROUND LEVEL DIFF. @ 30 M (LHS) FROM C/L	
EXIST. GROUND LEVEL DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	Q
GRAOIENT	G
GRID	



EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	EX ROW
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

Datum	PROPOSED ROAD LEVEL AT C/L OF MEDIAN CENTERLINE (M)	GROUND LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPER ELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
216	216.831	216.831	5.255	5.669				71000.0
	216.801	216.801	4.914	5.407				71010.0
	216.716	216.716	4.531	4.870				71020.0
	216.652	216.652	4.235	4.626				71030.0
	216.529	216.529	3.970	4.102				71040.0
	216.451	216.451	3.717	3.757				71050.0
	216.270	216.270	3.080	3.443				71060.0
	216.170	216.170	2.147	2.080				71070.0
	216.070	216.070	1.638	2.795				71080.0
	215.970	215.970	1.684	2.679				71090.0
	215.870	215.870	1.987	2.705				71100.0
	215.770	215.770	2.050	2.832				71110.0
	215.570	215.570	2.086	2.976				71120.0
	215.370	215.370	2.099	2.929				71130.0
	215.170	215.170	2.132	2.948				71140.0
	214.970	214.970	2.225	3.002				71150.0
	214.770	214.770	2.387	3.037				71160.0
	214.570	214.570	2.451	3.008				71170.0
	214.370	214.370	2.536	3.125				71180.0
	214.170	214.170	2.676	3.072				71190.0
	213.970	213.970	2.772	3.045				71200.0
	213.770	213.770	2.858	3.040				71210.0
	213.570	213.570	2.924	3.075				71220.0
	213.370	213.370	2.968	2.924				71230.0
	213.170	213.170	2.988	2.768				71240.0
	212.970	212.970	2.984	2.644				71250.0
	212.770	212.770	2.954	2.584				71260.0
	212.570	212.570	2.900	2.504				71270.0
	212.370	212.370	2.824	2.400				71280.0
	212.170	212.170	2.728	2.280				71290.0
	211.970	211.970	2.614	2.144				71300.0
	211.770	211.770	2.484	1.992				71310.0
	211.570	211.570	2.340	1.824				71320.0
	211.370	211.370	2.184	1.644				71330.0
	211.170	211.170	2.016	1.452				71340.0
	210.970	210.970	1.836	1.252				71350.0
	210.770	210.770	1.644	1.044				71360.0
	210.570	210.570	1.440	0.828				71370.0
	210.370	210.370	1.224	0.604				71380.0
	210.170	210.170	1.000	0.372				71390.0
	209.970	209.970	0.768	0.136				71400.0
	209.770	209.770	0.528	-0.104				71410.0
	209.570	209.570	0.280	-0.336				71420.0
	209.370	209.370	0.024	-0.568				71430.0
	209.170	209.170	-0.216	-0.792				71440.0
	208.970	208.970	-0.456	-1.008				71450.0
	208.770	208.770	-0.696	-1.216				71460.0
	208.570	208.570	-0.936	-1.416				71470.0
	208.370	208.370	-1.176	-1.608				71480.0
	208.170	208.170	-1.416	-1.792				71490.0
	207.970	207.970	-1.656	-1.968				71500.0
	207.770	207.770	-1.896	-2.136				71510.0
	207.570	207.570	-2.136	-2.296				71520.0
	207.370	207.370	-2.376	-2.448				71530.0
	207.170	207.170	-2.616	-2.592				71540.0
	206.970	206.970	-2.856	-2.728				71550.0
	206.770	206.770	-3.096	-2.856				71560.0
	206.570	206.570	-3.336	-2.976				71570.0
	206.370	206.370	-3.576	-3.088				71580.0
	206.170	206.170	-3.816	-3.192				71590.0
	205.970	205.970	-4.056	-3.288				71600.0
	205.770	205.770	-4.296	-3.376				71610.0
	205.570	205.570	-4.536	-3.456				71620.0
	205.370	205.370	-4.776	-3.528				71630.0
	205.170	205.170	-5.016	-3.592				71640.0
	204.970	204.970	-5.256	-3.648				71650.0
	204.770	204.770	-5.496	-3.696				71660.0
	204.570	204.570	-5.736	-3.736				71670.0
	204.370	204.370	-5.976	-3.768				71680.0
	204.170	204.170	-6.216	-3.792				71690.0
	203.970	203.970	-6.456	-3.808				71700.0
	203.770	203.770	-6.696	-3.816				71710.0
	203.570	203.570	-6.936	-3.816				71720.0
	203.370	203.370	-7.176	-3.808				71730.0
	203.170	203.170	-7.416	-3.792				71740.0
	202.970	202.970	-7.656	-3.768				71750.0
	202.770	202.770	-7.896	-3.736				71760.0
	202.570	202.570	-8.136	-3.696				71770.0
	202.370	202.370	-8.376	-3.648				71780.0
	202.170	202.170	-8.616	-3.592				71790.0
	201.970	201.970	-8.856	-3.528				71800.0
	201.770	201.770	-9.096	-3.456				71810.0
	201.570	201.570	-9.336	-3.376				71820.0
	201.370	201.370	-9.576	-3.288				71830.0
	201.170	201.170	-9.816	-3.192				71840.0
	200.970	200.970	-10.056	-3.088				71850.0
	200.770	200.770	-10.296	-2.976				71860.0
	200.570	200.570	-10.536	-2.856				71870.0
	200.370	200.370	-10.776	-2.728				71880.0
	200.170	200.170	-11.016	-2.592				71890.0
	199.970	199.970	-11.256	-2.448				71900.0
	199.770	199.770	-11.496	-2.296				71910.0
	199.570	199.570	-11.736	-2.136				71920.0
	199.370	199.370	-11.976	-1.968				71930.0
	199.170	199.170	-12.216	-1.792				71940.0
	198.970	198.970	-12.456	-1.608				71950.0
	198.770	198.770	-12.696	-1.416				71960.0
	198.570	198.570	-12.936	-1.216				71970.0
	198.370	198.370	-13.176	-1.008				71980.0
	198.170	198.170	-13.416	-0.792				71990.0
	197.970	197.970	-13.656	-0.568				72000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- C-5, 2ND FLOOR, R.K.TOWER PLOT NO. 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH. 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-5/Package-4) of Sohna - Firozpur Jhirka

SCALE:- Horizontal = 1:2000 Vertical = 1:200

DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 71+000 TO KM. 72+000)

DRAWING No.: CPCIP-152/BM/EXP/FR/P&P/72

DATE: AUGUST 2016

PREPARED BY: R.K. JALANDRA

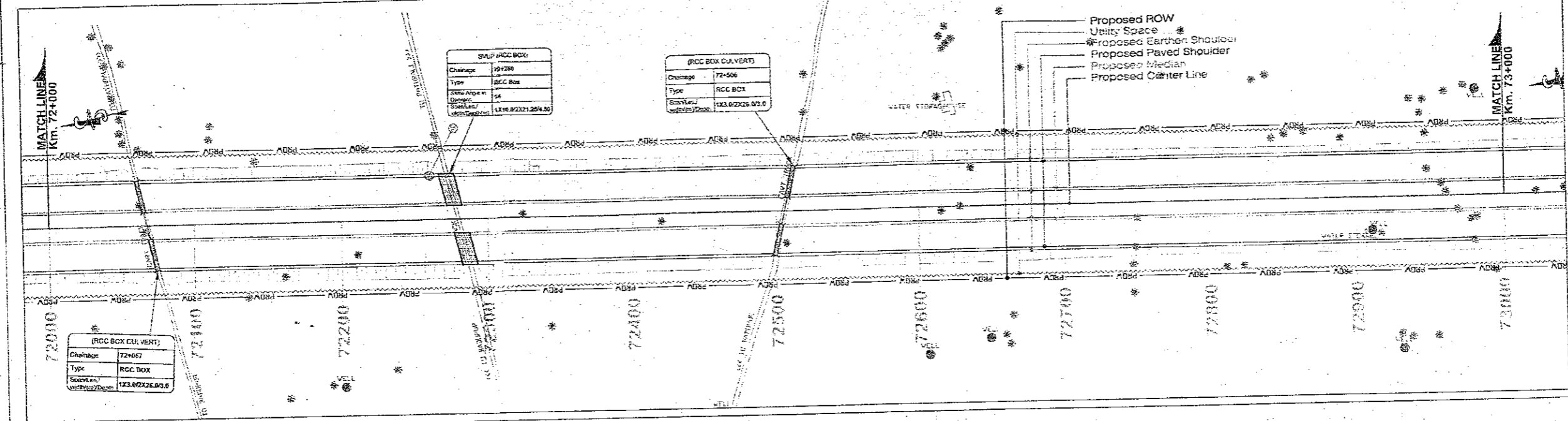
DESIGNED BY: SANTOSH

CHECKED BY: DHARAMAVIR

APPROVED BY: S.K. SINHA

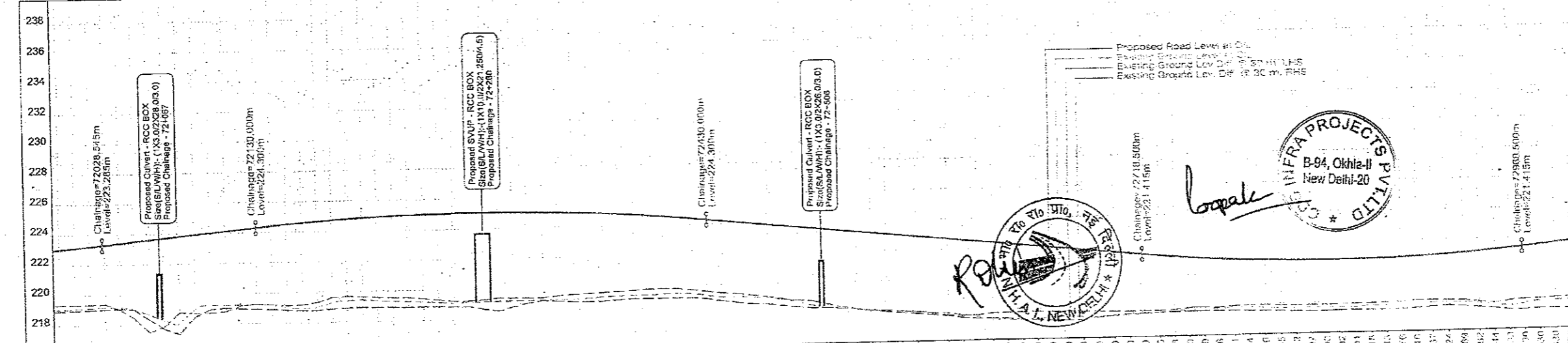
TO FIROZPUR JHIRKA

TO SOHNA



PROPOSED LEGEND	
HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. GW	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT CL OF CW	
Ground/Road Level at Cl. of E. of CW	
EXIST. GROUND LEVEL DIFF. @ 30 M (LHS) FROM CL	
EXIST. GROUND LEVEL DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
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HAND PUMP	
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RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (RHS) FROM CL	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM CL	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
223.063	3.681	4.092				72000.0
223.709	3.757	4.149				72010.0
223.202	3.991	4.210				72020.0
223.300	3.912	4.269				72030.0
223.400	4.371	4.304				72040.0
223.500	4.371	4.304				72050.0
223.600	4.371	4.304				72060.0
223.700	4.371	4.304				72070.0
223.800	4.371	4.304				72080.0
223.900	4.371	4.304				72090.0
224.000	4.371	4.304				72100.0
224.100	4.371	4.304				72110.0
224.200	4.371	4.304				72120.0
224.300	4.371	4.304				72130.0
224.400	4.371	4.304				72140.0
224.500	4.371	4.304				72150.0
224.600	4.371	4.304				72160.0
224.700	4.371	4.304				72170.0
224.800	4.371	4.304				72180.0
224.900	4.371	4.304				72190.0
225.000	4.371	4.304				72200.0
225.100	4.371	4.304				72210.0
225.200	4.371	4.304				72220.0
225.300	4.371	4.304				72230.0
225.400	4.371	4.304				72240.0
225.500	4.371	4.304				72250.0
225.600	4.371	4.304				72260.0
225.700	4.371	4.304				72270.0
225.800	4.371	4.304				72280.0
225.900	4.371	4.304				72290.0
226.000	4.371	4.304				72300.0
226.100	4.371	4.304				72310.0
226.200	4.371	4.304				72320.0
226.300	4.371	4.304				72330.0
226.400	4.371	4.304				72340.0
226.500	4.371	4.304				72350.0
226.600	4.371	4.304				72360.0
226.700	4.371	4.304				72370.0
226.800	4.371	4.304				72380.0
226.900	4.371	4.304				72390.0
227.000	4.371	4.304				72400.0
227.100	4.371	4.304				72410.0
227.200	4.371	4.304				72420.0
227.300	4.371	4.304				72430.0
227.400	4.371	4.304				72440.0
227.500	4.371	4.304				72450.0
227.600	4.371	4.304				72460.0
227.700	4.371	4.304				72470.0
227.800	4.371	4.304				72480.0
227.900	4.371	4.304				72490.0
228.000	4.371	4.304				72500.0
228.100	4.371	4.304				72510.0
228.200	4.371	4.304				72520.0
228.300	4.371	4.304				72530.0
228.400	4.371	4.304				72540.0
228.500	4.371	4.304				72550.0
228.600	4.371	4.304				72560.0
228.700	4.371	4.304				72570.0
228.800	4.371	4.304				72580.0
228.900	4.371	4.304				72590.0
229.000	4.371	4.304				72600.0
229.100	4.371	4.304				72610.0
229.200	4.371	4.304				72620.0
229.300	4.371	4.304				72630.0
229.400	4.371	4.304				72640.0
229.500	4.371	4.304				72650.0
229.600	4.371	4.304				72660.0
229.700	4.371	4.304				72670.0
229.800	4.371	4.304				72680.0
229.900	4.371	4.304				72690.0
230.000	4.371	4.304				72700.0
230.100	4.371	4.304				72710.0
230.200	4.371	4.304				72720.0
230.300	4.371	4.304				72730.0
230.400	4.371	4.304				72740.0
230.500	4.371	4.304				72750.0
230.600	4.371	4.304				72760.0
230.700	4.371	4.304				72770.0
230.800	4.371	4.304				72780.0
230.900	4.371	4.304				72790.0
231.000	4.371	4.304				72800.0
231.100	4.371	4.304				72810.0
231.200	4.371	4.304				72820.0
231.300	4.371	4.304				72830.0
231.400	4.371	4.304				72840.0
231.500	4.371	4.304				72850.0
231.600	4.371	4.304				72860.0
231.700	4.371	4.304				72870.0
231.800	4.371	4.304				72880.0
231.900	4.371	4.304				72890.0
232.000	4.371	4.304				72900.0
232.100	4.371	4.304				72910.0
232.200	4.371	4.304				72920.0
232.300	4.371	4.304				72930.0
232.400	4.371	4.304				72940.0
232.500	4.371	4.304				72950.0
232.600	4.371	4.304				72960.0
232.700	4.371	4.304				72970.0
232.800	4.371	4.304				72980.0
232.900	4.371	4.304				72990.0
233.000	4.371	4.304				73000.0

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE:- Horizontal = 1:2000 Vertical = 1:200

DWG TITLE:- PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 72-000 TO KM. 73-000)

DRAWING No.: CPC/P-152/BM/EXP./FR/P&P/73

DATE: AUGUST 2018

PREPARED BY: R.K. JALANPURA

DESIGNED BY: SANTOSH

CHECKED BY: DHARAMVIR

APPROVED BY: S.K. SINHA

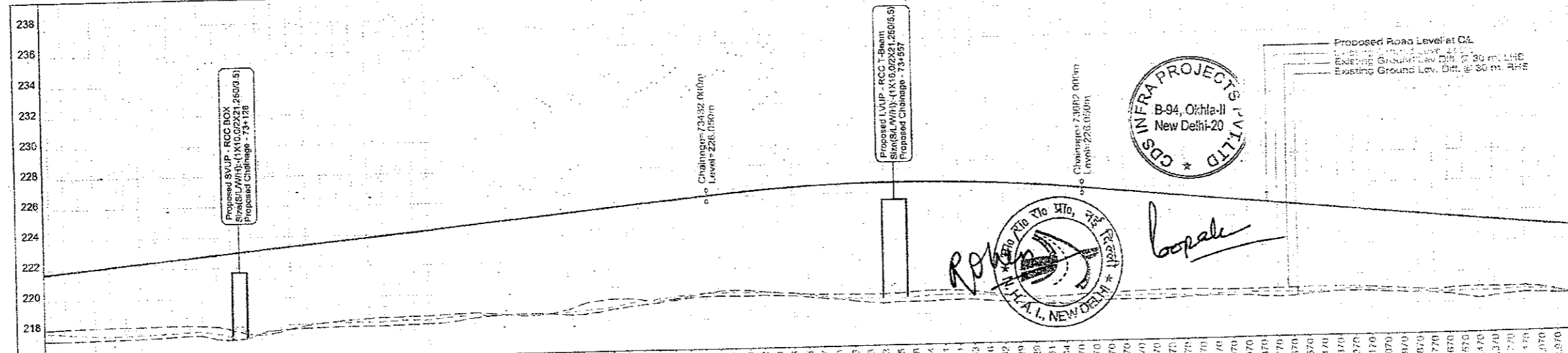
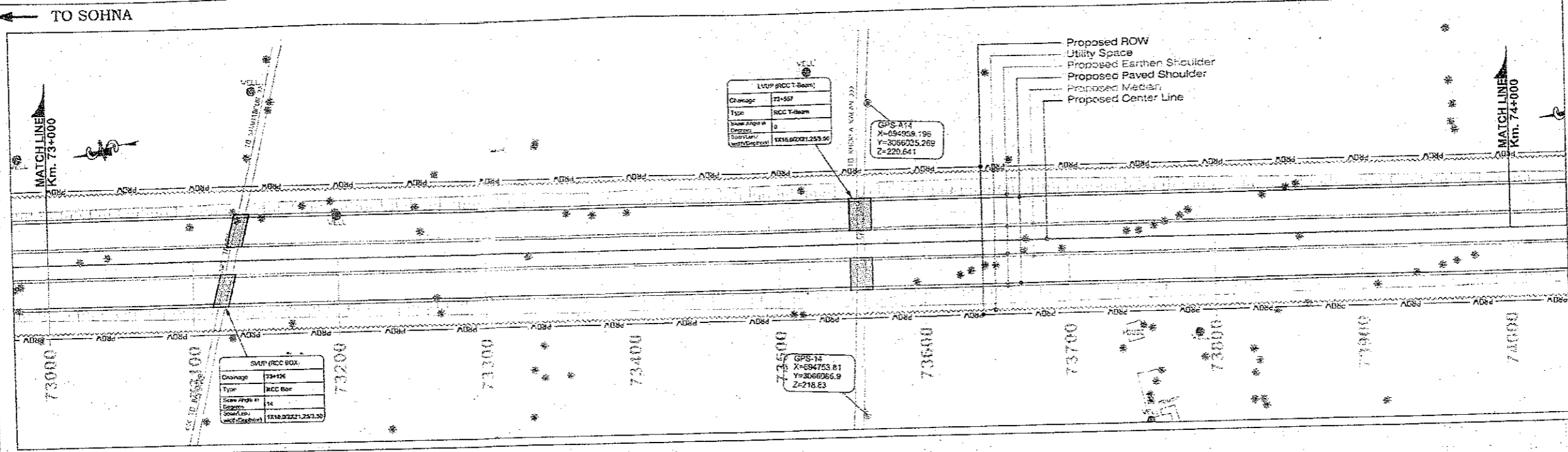
Revision: R0

TO FIROZPUR JHIRKA →

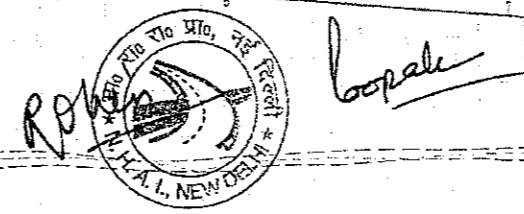
← TO SOHNA

PROPOSED LEGEND	
HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. CW	
PROP. ES	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF CAN	
Ground/Road Level at C/L of Ex. CAN	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	
GRADIENT	
GRID	

EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	



Datum	216	218	220	222	224	226	228	230	232	234	236	238
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
GROUND/ROAD LEVEL AT C/L OF EXISTING CAN	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CL	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CL	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
SUPERELEVATION CROSSFALL (%)	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730	221.730
PROPOSED CHAINAGE (MTR.)	73000.0	73010.0	73020.0	73030.0	73040.0	73050.0	73060.0	73070.0	73080.0	73090.0	73100.0	73110.0



CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472

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SCALE: Horizontal= 1:2000 Vertical= 1:200

DWG TITLE: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 73-000 TO KM. 74+000)

DRAWING No.: CPCP-152/BM/EXP/JFR/P&P/74

DATE: AUGUST 2018

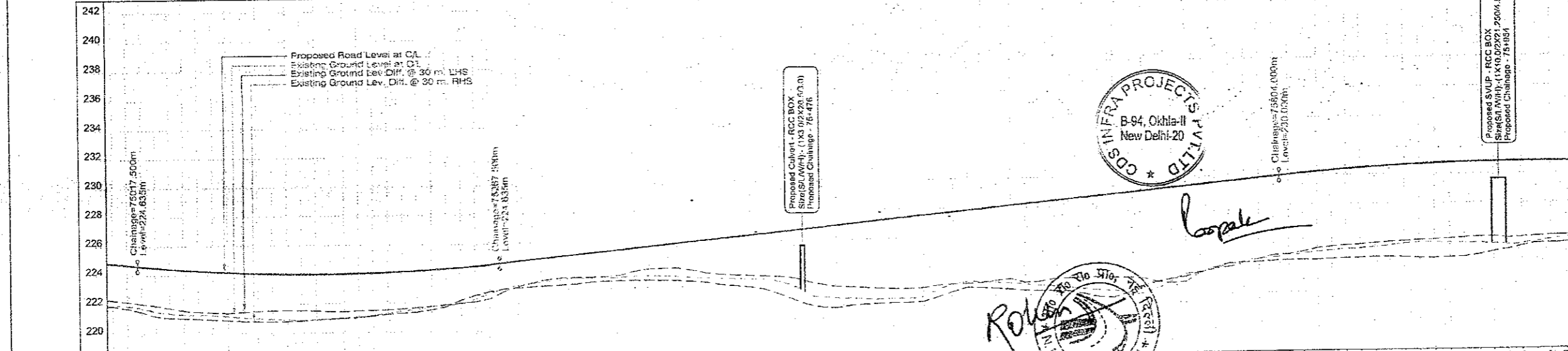
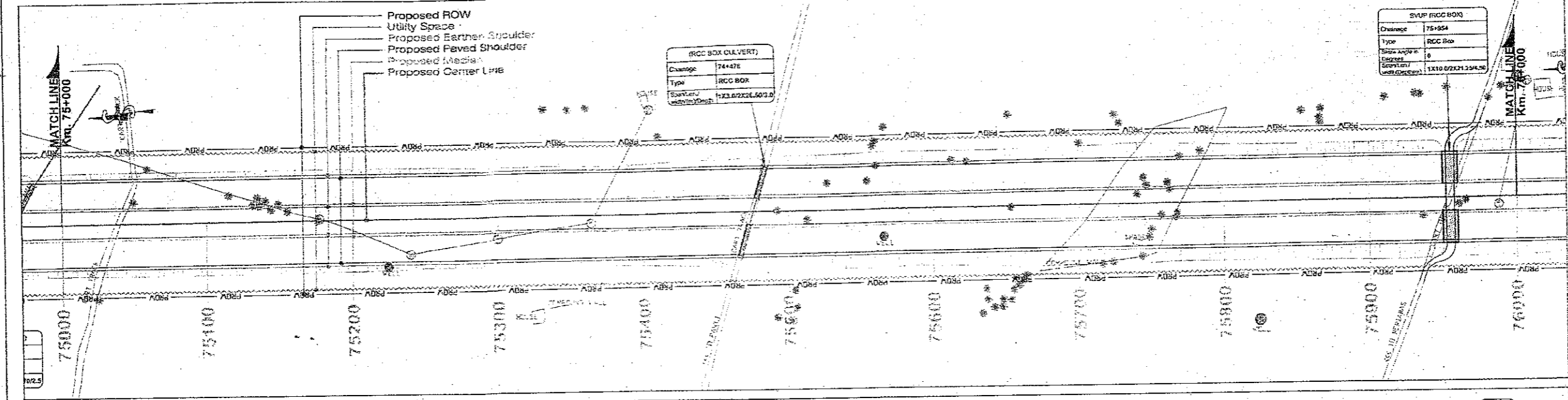
PREPARED BY: R.K.JALANDRA **DESIGNED BY:** SANTOSH **CHECKED BY:** DHARAMVIR **APPROVED BY:** S.K. SINHA

PROPOSED LEGEND

HIP LINE	—
PROP. C/L	—
MEDIAN	—
EDGE STRIP	—
PROP. C/W	—
PROP. E/S	—
UTILITY SPACE	—
PROW	— P ROW —
PROP. CH	— 000 —
MATCH LINE	—
PRO. ROAD LEVEL AT C/L OF C/W	—
Ground/Road Level at C/L of Ex. C/W	—
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	—
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	—
SUPER ELEVATION	—
GRADIENT	— G —
GRID	—

EXISTING LEGEND

BRIDGE	—
BRANCH ROAD	—
BUILDING / STRUCTURE	—
BUS STOP	—
BOUNDARY WALL	—
CENTER LINE	—
CULVERT	—
DRAIN	—
ELECTRIC POLE	—
EX ROW	— EX ROW —
EXISTING ROAD	—
GATE	—
HAND PUMP	—
HUT	—
KILOMETER STONE	—
LAMP POST	—
MEDIAN	—
OFC	—
PILLAR	—
PETROL PUMP	—
RIVER/NALA	—
RAILWAY TRACK	—
ROW PILLAR	—
SIGN BOARD	—
TELEPHONE POLE	—
TEMPLE	—
TRANSFORMER	—
TOILET	—
TOWER	—
WARE HOUSE	—
TREE	—



Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	EXISTING GROUND LEVELS DIFF. @ 30 M (R/S) FROM C/L	EXISTING GROUND LEVELS DIFF. @ 30 M (R/S) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
218	221.876	221.876	2.511	2.601			75000.0	
	221.895	221.895	2.537	2.626			75010.0	
	221.914	221.914	2.572	2.661			75020.0	
	221.933	221.933	2.608	2.696			75030.0	
	221.952	221.952	2.644	2.731			75040.0	
	221.971	221.971	2.680	2.766			75050.0	
	221.990	221.990	2.716	2.801			75060.0	
	222.009	222.009	2.752	2.836			75070.0	
	222.028	222.028	2.788	2.871			75080.0	
	222.047	222.047	2.824	2.906			75090.0	
	222.066	222.066	2.860	2.941			75100.0	
	222.085	222.085	2.896	2.976			75110.0	
	222.104	222.104	2.932	3.011			75120.0	
	222.123	222.123	2.968	3.046			75130.0	
	222.142	222.142	3.004	3.081			75140.0	
	222.161	222.161	3.040	3.116			75150.0	
	222.180	222.180	3.076	3.151			75160.0	
	222.199	222.199	3.112	3.186			75170.0	
	222.218	222.218	3.148	3.221			75180.0	
	222.237	222.237	3.184	3.256			75190.0	
	222.256	222.256	3.220	3.291			75200.0	
	222.275	222.275	3.256	3.326			75210.0	
	222.294	222.294	3.292	3.361			75220.0	
	222.313	222.313	3.328	3.396			75230.0	
	222.332	222.332	3.364	3.431			75240.0	
	222.351	222.351	3.400	3.466			75250.0	
	222.370	222.370	3.436	3.501			75260.0	
	222.389	222.389	3.472	3.536			75270.0	
	222.408	222.408	3.508	3.571			75280.0	
	222.427	222.427	3.544	3.606			75290.0	
	222.446	222.446	3.580	3.641			75300.0	
	222.465	222.465	3.616	3.676			75310.0	
	222.484	222.484	3.652	3.711			75320.0	
	222.503	222.503	3.688	3.746			75330.0	
	222.522	222.522	3.724	3.781			75340.0	
	222.541	222.541	3.760	3.816			75350.0	
	222.560	222.560	3.796	3.851			75360.0	
	222.579	222.579	3.832	3.886			75370.0	
	222.598	222.598	3.868	3.921			75380.0	
	222.617	222.617	3.904	3.956			75390.0	
	222.636	222.636	3.940	3.991			75400.0	
	222.655	222.655	3.976	4.026			75410.0	
	222.674	222.674	4.012	4.061			75420.0	
	222.693	222.693	4.048	4.096			75430.0	
	222.712	222.712	4.084	4.131			75440.0	
	222.731	222.731	4.120	4.166			75450.0	
	222.750	222.750	4.156	4.201			75460.0	
	222.769	222.769	4.192	4.236			75470.0	
	222.788	222.788	4.228	4.271			75480.0	
	222.807	222.807	4.264	4.306			75490.0	
	222.826	222.826	4.300	4.341			75500.0	
	222.845	222.845	4.336	4.376			75510.0	
	222.864	222.864	4.372	4.411			75520.0	
	222.883	222.883	4.408	4.446			75530.0	
	222.902	222.902	4.444	4.481			75540.0	
	222.921	222.921	4.480	4.516			75550.0	
	222.940	222.940	4.516	4.551			75560.0	
	222.959	222.959	4.552	4.586			75570.0	
	222.978	222.978	4.588	4.621			75580.0	
	222.997	222.997	4.624	4.656			75590.0	
	223.016	223.016	4.660	4.691			75600.0	
	223.035	223.035	4.696	4.726			75610.0	
	223.054	223.054	4.732	4.761			75620.0	
	223.073	223.073	4.768	4.796			75630.0	
	223.092	223.092	4.804	4.831			75640.0	
	223.111	223.111	4.840	4.866			75650.0	
	223.130	223.130	4.876	4.901			75660.0	
	223.149	223.149	4.912	4.936			75670.0	
	223.168	223.168	4.948	4.971			75680.0	
	223.187	223.187	4.984	5.006			75690.0	
	223.206	223.206	5.020	5.041			75700.0	
	223.225	223.225	5.056	5.076			75710.0	
	223.244	223.244	5.092	5.111			75720.0	
	223.263	223.263	5.128	5.146			75730.0	
	223.282	223.282	5.164	5.181			75740.0	
	223.301	223.301	5.200	5.216			75750.0	
	223.320	223.320	5.236	5.251			75760.0	
	223.339	223.339	5.272	5.286			75770.0	
	223.358	223.358	5.308	5.321			75780.0	
	223.377	223.377	5.344	5.356			75790.0	
	223.396	223.396	5.380	5.391			75800.0	
	223.415	223.415	5.416	5.426			75810.0	
	223.434	223.434	5.452	5.462			75820.0	
	223.453	223.453	5.488	5.497			75830.0	
	223.472	223.472	5.524	5.512			75840.0	
	223.491	223.491	5.560	5.527			75850.0	
	223.510	223.510	5.596	5.562			75860.0	
	223.529	223.529	5.632	5.597			75870.0	
	223.548	223.548	5.668	5.632			75880.0	
	223.567	223.567	5.704	5.667			75890.0	
	223.586	223.586	5.740	5.702			75900.0	
	223.605	223.605	5.776	5.737			75910.0	
	223.624	223.624	5.812	5.772			75920.0	
	223.643	223.643	5.848	5.807			75930.0	
	223.662	223.662	5.884	5.842			75940.0	
	223.681	223.681	5.920	5.877			75950.0	
	223.700	223.700	5.956	5.912			75960.0	
	223.719	223.719	5.992	5.947			75970.0	
	223.738	223.738	6.028	5.982			75980.0	
	223.757	223.757	6.064	6.017			75990.0	
	223.776	223.776	6.100	6.052			76000.0	
	223.795	223.795	6.136	6.087			76000.0	

CLIENT: National Highways Authority of India (Ministry of Road Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO. 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4116472

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SCALE: Horizontal = 1:2000, Vertical = 1:200

DWG TITLE: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 75+000 TO KM. 76+000)

DRAWING No.: CPC/P-152/EM/EXP./FR/P&P/76

DATE: AUGUST 2015

REVISION: R0

PREPARED BY: R.K. JALANDRA

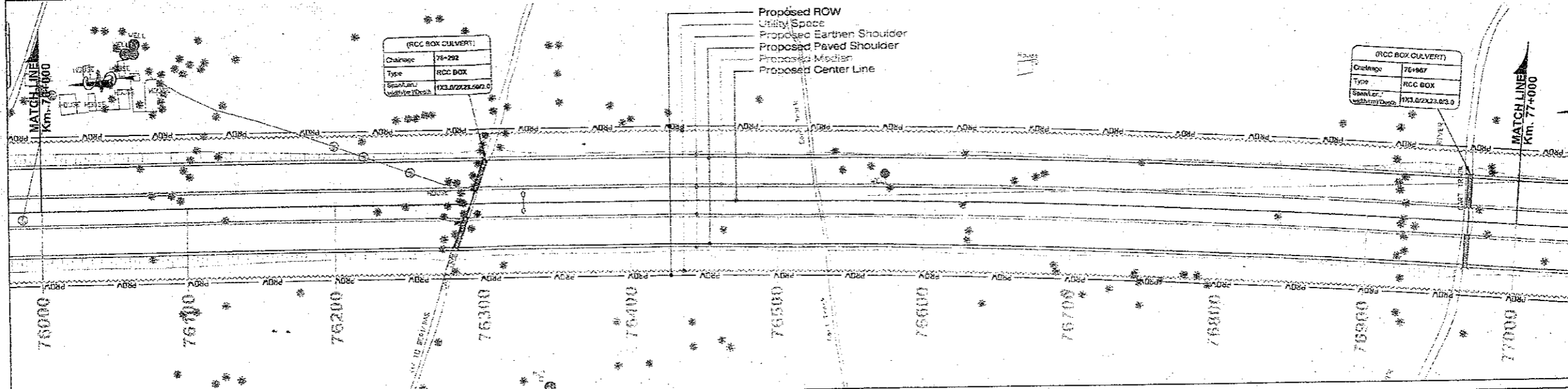
DESIGNED BY: SANTOSH

CHECKED BY: DHARAMVIR

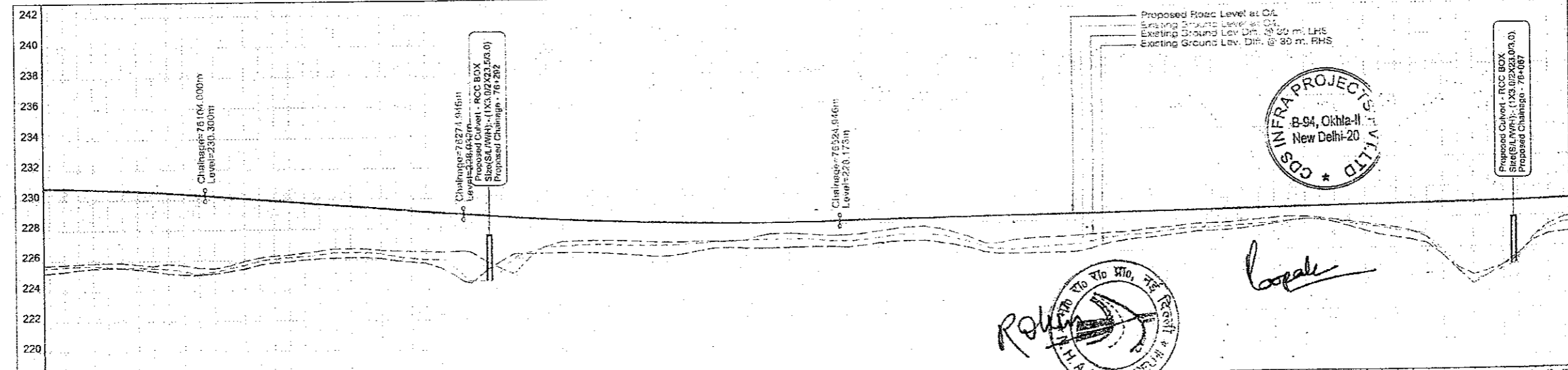
APPROVED BY: S.K. SINHA

TO SOHNA

TO FIROZPUR JHIRKA



PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	000
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex. C/W	
EXIST. GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIST. GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	Q
GRADIENT	G
GRID	



EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	EX ROW
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
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SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

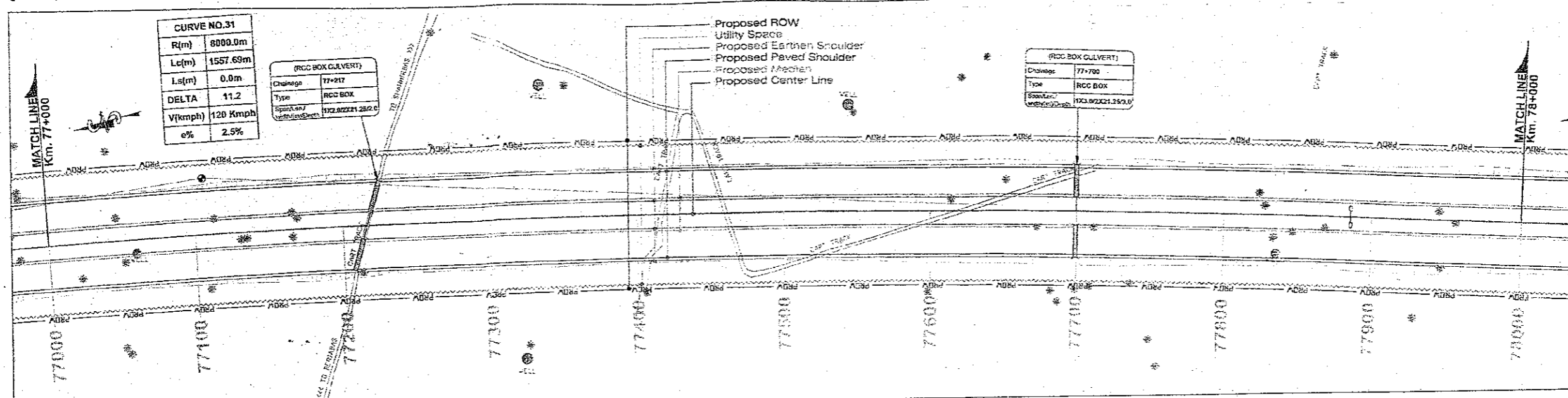
Datum	218
PROPOSED ROAD LEVEL AT CENTER LINE (M)	225.816, 226.787, 227.863, 229.049, 230.346, 231.754, 233.274, 234.906, 236.549, 238.203, 239.868, 241.544, 243.231, 244.929, 246.637, 248.355, 250.084, 251.824, 253.574, 255.334, 257.104, 258.884, 260.674, 262.474, 264.284, 266.104, 267.934, 269.774, 271.624, 273.484, 275.354, 277.234, 279.124, 281.024, 282.934, 284.854, 286.784, 288.724, 290.674, 292.634, 294.604, 296.584, 298.574, 300.574, 302.584, 304.604, 306.634, 308.674, 310.724, 312.784, 314.854, 316.934, 319.024, 321.124, 323.234, 325.354, 327.484, 329.624, 331.774, 333.934, 336.104, 338.284, 340.474, 342.674, 344.884, 347.104, 349.334, 351.574, 353.824, 356.084, 358.354, 360.634, 362.924, 365.224, 367.534, 369.854, 372.184, 374.524, 376.874, 379.234, 381.604, 383.984, 386.374, 388.774, 391.184, 393.604, 396.034, 398.474, 400.924, 403.384, 405.854, 408.334, 410.824, 413.324, 415.834, 418.354, 420.884, 423.424, 425.974, 428.534, 431.104, 433.684, 436.274, 438.874, 441.484, 444.104, 446.734, 449.374, 452.024, 454.684, 457.354, 460.034, 462.724, 465.424, 468.134, 470.854, 473.584, 476.324, 479.074, 481.824, 484.584, 487.354, 490.134, 492.924, 495.724, 498.534, 501.354, 504.184, 507.024, 509.874, 512.724, 515.584, 518.454, 521.324, 524.204, 527.094, 529.994, 532.904, 535.824, 538.754, 541.694, 544.644, 547.604, 550.574, 553.554, 556.544, 559.544, 562.554, 565.574, 568.604, 571.644, 574.694, 577.754, 580.824, 583.904, 586.994, 590.094, 593.204, 596.324, 599.454, 602.594, 605.744, 608.904, 612.074, 615.254, 618.444, 621.644, 624.854, 628.074, 631.304, 634.544, 637.794, 641.054, 644.324, 647.604, 650.894, 654.194, 657.504, 660.824, 664.154, 667.494, 670.844, 674.204, 677.574, 680.954, 684.344, 687.744, 691.154, 694.574, 697.994, 701.424, 704.864, 708.314, 711.774, 715.244, 718.724, 722.214, 725.714, 729.224, 732.744, 736.274, 739.814, 743.364, 746.924, 750.494, 754.074, 757.664, 761.264, 764.874, 768.494, 772.124, 775.764, 779.414, 783.074, 786.744, 790.424, 794.114, 797.814, 801.524, 805.244, 808.974, 812.714, 816.464, 820.224, 823.994, 827.774, 831.564, 835.364, 839.174, 842.994, 846.824, 850.664, 854.514, 858.374, 862.244, 866.124, 870.014, 873.914, 877.824, 881.744, 885.674, 889.614, 893.564, 897.524, 901.494, 905.474, 909.464, 913.464, 917.474, 921.494, 925.524, 929.564, 933.614, 937.674, 941.744, 945.824, 949.914, 954.014, 958.124, 962.244, 966.374, 970.514, 974.664, 978.824, 982.994, 987.174, 991.364, 995.564, 999.774, 1003.994, 1008.224, 1012.464, 1016.714, 1020.974, 1025.244, 1029.524, 1033.814, 1038.114, 1042.424, 1046.744, 1051.074, 1055.414, 1059.764, 1064.124, 1068.494, 1072.874, 1077.264, 1081.664, 1086.074, 1090.494, 1094.924, 1099.364, 1103.814, 1108.274, 1112.744, 1117.224, 1121.714, 1126.214, 1130.724, 1135.244, 1139.774, 1144.314, 1148.864, 1153.424, 1157.994, 1162.574, 1167.164, 1171.764, 1176.374, 1180.994, 1185.624, 1190.264, 1194.914, 1199.574, 1204.244, 1208.924, 1213.614, 1218.314, 1223.024, 1227.744, 1232.474, 1237.214, 1241.964, 1246.724, 1251.494, 1256.274, 1261.064, 1265.864, 1270.674, 1275.494, 1280.324, 1285.164, 1289.914, 1294.674, 1299.444, 1304.224, 1309.014, 1313.814, 1318.624, 1323.444, 1328.274, 1333.114, 1337.964, 1342.824, 1347.694, 1352.574, 1357.464, 1362.364, 1367.274, 1372.194, 1377.124, 1382.064, 1387.014, 1391.974, 1396.944, 1401.924, 1406.914, 1411.914, 1416.924, 1421.944, 1426.974, 1432.014, 1437.064, 1442.124, 1447.194, 1452.274, 1457.364, 1462.464, 1467.574, 1472.694, 1477.824, 1482.964, 1488.114, 1493.274, 1498.444, 1503.624, 1508.814, 1514.014, 1519.224, 1524.444, 1529.674, 1534.914, 1540.164, 1545.424, 1550.694, 1555.974, 1561.264, 1566.564, 1571.874, 1577.194, 1582.524, 1587.864, 1593.214, 1598.574, 1603.944, 1609.324, 1614.714, 1620.114, 1625.524, 1630.944, 1636.374, 1641.814, 1647.264, 1652.724, 1658.194, 1663.674, 1669.164, 1674.664, 1680.174, 1685.694, 1691.224, 1696.764, 1702.314, 1707.874, 1713.444, 1719.024, 1724.614, 1730.214, 1735.824, 1741.444, 1747.074, 1752.714, 1758.364, 1764.024, 1769.694, 1775.374, 1781.064, 1786.764, 1792.474, 1798.194, 1803.924, 1809.664, 1815.414, 1821.174, 1826.944, 1832.724, 1838.514, 1844.314, 1850.124, 1855.944, 1861.774, 1867.614, 1873.464, 1879.324, 1885.194, 1891.074, 1896.964, 1902.864, 1908.774, 1914.694, 1920.624, 1926.564, 1932.514, 1938.474, 1944.444, 1950.424, 1956.414, 1962.414, 1968.424, 1974.444, 1980.474, 1986.514, 1992.564, 1998.624, 2004.694, 2010.774, 2016.864, 2022.964, 2029.074, 2035.194, 2041.324, 2047.464, 2053.614, 2059.774, 2065.944, 2072.124, 2078.314, 2084.514, 2090.724, 2096.944, 2103.174, 2109.414, 2115.664, 2121.924, 2128.194, 2134.474, 2140.764, 2147.064, 2153.374, 2159.694, 2166.024, 2172.364, 2178.714, 2185.074, 2191.444, 2197.824, 2204.214, 2210.614, 2217.024, 2223.444, 2229.874, 2236.314, 2242.764, 2249.224, 2255.694, 2262.174, 2268.664, 2275.164, 2281.674, 2288.194, 2294.724, 2301.264, 2307.814, 2314.374, 2320.944, 2327.524, 2334.114, 2340.714, 2347.324, 2353.944, 2360.574, 2367.214, 2373.864, 2380.524, 2387.194, 2393.874, 2400.564, 2407.264, 2413.974, 2420.694, 2427.424, 2434.164, 2440.914, 2447.674, 2454.444, 2461.224, 2468.014, 2474.814, 2481.624, 2488.444, 2495.274, 2502.114, 2508.964, 2515.824, 2522.694, 2529.574, 2536.464, 2543.364, 2550.274, 2557.194, 2564.124, 2571.064, 2578.014, 2584.974, 2591.944, 2598.924, 2605.914, 2612.914, 2619.924, 2626.944, 2633.974, 2641.014, 2648.064, 2655.124, 2662.194, 2669.274, 2676.364, 2683.464, 2690.574, 2697.694, 2704.824, 2711.964, 2719.114, 2726.274, 2733.444, 2740.624, 2747.814, 2755.014, 2762.224, 2769.444, 2776.674, 2783.914, 2791.164, 2798.424, 2805.694, 2812.974, 2820.264, 2827.564, 2834.874, 2842.194, 2849.524, 2856.864, 2864.214, 2871.574, 2878.944, 2886.324, 2893.714, 2901.114, 2908.524, 2915.944, 2923.374, 2930.814, 2938.264, 2945.724, 2953.194, 2960.674, 2968.164, 2975.664, 2983.174, 2990.694, 2998.224, 3005.764, 3013.314, 3020.874, 3028.444, 3036.024, 3043.614, 3051.214, 3058.824, 3066.444, 3074.074, 3081.714, 3089.364, 3097.024, 3104.694, 3112.374, 3120.064, 3127.764, 3135.474, 3143.194, 3150.924, 3158.664, 3166.414, 3174.174, 3181.944, 3189.724, 3197.514, 3205.314, 3213.124, 3220.944, 3228.774, 3236.614, 3244.464, 3252.324, 3260.194, 3268.074, 3275.964, 3283.864, 3291.774, 3300.694, 3308.624, 3316.564, 3324.514, 3332.474, 3340.444, 3348.424, 3356.414, 3364.414, 3372.424, 3380.444, 3388.474, 3396.514, 3404.564, 3412.614, 3420.674, 3428.744, 3436.824, 3444.914, 3453.014, 3461.124, 3469.244, 3477.364, 3485.494, 3493.634, 3501.784, 3509.944, 3518.114, 3526.294, 3534.484, 3542.684, 3550.894, 3559.114, 3567.344, 3575.584, 3583.834, 3592.094, 3600.364, 3608.644, 3616.934, 3625.234, 3633.544, 3641.864, 3650.194, 3658.534, 3666.884, 3675.244, 3683.614, 3691.994, 3700.384, 3708.784, 3717.194, 3725.614, 3734.044, 3742.484, 3750.934, 3759.394, 3767.864, 3776.344, 3784.834, 3793.334, 3801.844, 3810.364, 3818.894, 3827.434, 3835.984, 3844.544, 3853.114, 3861.694, 3870.284, 3878.884, 3887.494, 3896.114, 3904.744, 3913.384, 3922.034, 3930.694, 3939.364, 3948.044, 3956.734, 3965.434, 3974.144, 3982.864, 3991.594, 4000.334, 4009.084, 4017.844, 4026.614, 4035.394, 4044.184, 4052.984, 4061.794, 4070.614, 4079.444, 4088.284, 4097.134, 4106.094, 4115.064, 4124.044, 4133.034, 4142.034, 4151.044, 4160.064, 4169.094, 4178.134, 4187.184, 4196.244, 4205.314, 4214.394, 4223.484, 4232.584, 4241.694, 4250.814, 4259.944, 4269.084, 4278.234, 4287.394, 4296.564, 4305.744, 4314.934, 4324.134, 4333.344, 4342.564, 4351.794, 4361.034, 4370.284, 4379.544, 4388.814, 4398.094, 4407.384, 4416.684, 4425.994, 4435.314, 4444.644, 4453.984, 4463.334, 4472.694, 4482.064, 4491.444, 4500.834, 4510.234, 4519.644, 4529.064, 4538.494, 4547.934, 4557.384, 4566.844, 4576.314, 4585.794, 4595.284, 4604.784, 4614.294, 4623.814, 4633.344, 4642.884, 4652.434, 4661.994, 4671.564, 4681.144, 4690.734, 4700.334, 4709.944, 4719.564, 4729.194, 4738.834, 4748.484, 4758.144, 4767.814, 4777.494, 4787.184, 4796.884, 4806.594, 4816.314, 4826.044, 4835.784, 4845.534, 4855.294, 4865.064, 4874.844, 4884.634, 4894.434, 4904.244, 4914.064, 4923.894, 4933.734, 4943.584, 4953.444, 4963.314, 4973.194, 4983.084, 4992.984, 5002.894, 5012.814, 5022.744, 5032.684, 5042.634, 5052.594, 5062.564, 5072.544, 5082.534, 5092.534, 5102.544, 5112.564, 5122.594, 5132.634, 5142.684, 5152.744, 5162.814, 5172.894, 5182.984, 5193.084, 5203.194, 5213.314, 5223.444, 5233.584, 5243.734, 5253.894, 5264.064, 5274.244, 5284.434, 5294.634, 5304.844, 5315.064, 5325.294, 5335.534, 5345.784, 5356.044, 5366.314, 5376.594, 5386.884, 5397.184, 5407.494, 5417.814, 5428.144, 5438.484, 5448.834, 5459.194, 5469.564, 5479.944, 5490.334, 5500.734, 5511.144, 5521.564, 5531.994, 5542.434, 5552.884, 5563.344, 5573.814, 5584.294, 5594.784, 5605.284, 5615.794, 5626.314, 5636.844, 5647.384, 5657.934, 5668.494, 5679.064, 5689.644, 5700.234, 5710.834, 5721.444, 5732.064, 5742.694, 5753.334, 5763.984, 5774.644, 5785.314, 5795.994, 5806.684, 5817.384, 5828.094, 5838.814, 5849.544, 5860.284, 5871.034, 5881.794, 5892.564, 5903.344, 5914.134, 5924.934, 5935.744, 5946.564, 5957.394, 5968.234, 5979.084, 5989.944, 6000.814, 6011.694, 6022.584, 6033.484, 6044.394, 6055.314, 6066.244, 6077.184, 6088.134, 6099.094, 6110.064, 6121.044, 6132.034, 6143.034, 6154.044, 6165.064, 6176.094, 6187.134, 6198.184, 6209.244, 6220.314, 6231.394, 6242.484, 6253.584, 6264.694, 6275.814, 6286.944, 6298.084, 6309.234, 6320.394, 6331.564, 6342.744, 6353.934, 6365.134, 6376.344, 6387.564, 6398.794, 6409.034, 6420.284, 6431.544, 6442.814, 6454.094, 6465.384, 6476.684, 6487.994, 6499.314, 6510.644, 6521.984, 6533.334, 6544.694, 6556.064, 6567.444, 6578.834, 6590.234, 6601.644, 6613.064, 6624.494, 6635.934, 6647.384, 6658.844, 6670.314, 6681.794, 6693.284, 6704.784, 6716.294, 6727.814, 6739.344, 6750.884, 6762.434, 6773.994, 6785.564, 6797.144, 6808.734, 6820.334, 6831.944, 6843.564, 6855.194, 6866.834, 6878.484, 6890.144, 6901.814, 6913.494, 6925.184, 6936.884, 6948.594, 6960.314, 6972.044, 6983.784, 6995.534, 7007.294, 7019.064, 7030.844, 7042.634, 7054.434, 7066.244, 7078.064, 7089.894, 7101.734, 7113.584, 7125.444, 7137.314, 7149.194, 7161.084, 7172.984, 7184.894, 7196.814, 7208.744, 7220.684, 7232.634, 7244.594, 7256.564, 7268.544, 7280.534, 7292.534, 7304.544, 7316.564, 7328.594, 7340.634, 7352.684, 7364.744, 7376.814, 7388.894, 7400.984, 7413.084, 7425.194, 7437.314, 7449.444, 7461.584, 7473.734, 7485.894, 7498.064, 7510.244, 7522.434, 7534.634, 7546.844, 7559.064, 7571.294, 7583.534, 7595.784, 7608.044, 7620.314, 7632.594, 7644.884, 7657.184, 7669.494, 7681.814, 7694.144, 7706.484, 7718.834, 7731.194, 7743.564, 7755.944, 7768.334, 7780.734, 7793.144, 7805.564, 7817.994, 7830.434, 7842.884, 7855.344, 7867.814, 7880.294, 7892.784, 7905.284, 7917.794, 7930.314, 7942.844, 7955.384, 7967.934, 7980.494, 7993.064, 8005.644, 8018.234, 8030.834, 8043.444, 8056.064, 8068.694, 8081.334, 8093.984, 8106.644, 8119.314, 8131.994, 8144.684, 8157.384, 8170.094

TO FIROZPUR JHIRKA

TO SOHNA

PROPOSED LEGEND	
HIP LINE	
PROP. C/L	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	
PROP. CH	
MATCH LINE	
PRC. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex.C/W	
EXIST. GROUND LEV. DIFF. @ 30 M (LHS) FROM C/L	
EXIST. GROUND LEV. DIFF. @ 30 M (RHS) FROM C/L	
SUPER ELEVATION	
GRADIENT	
GRID	

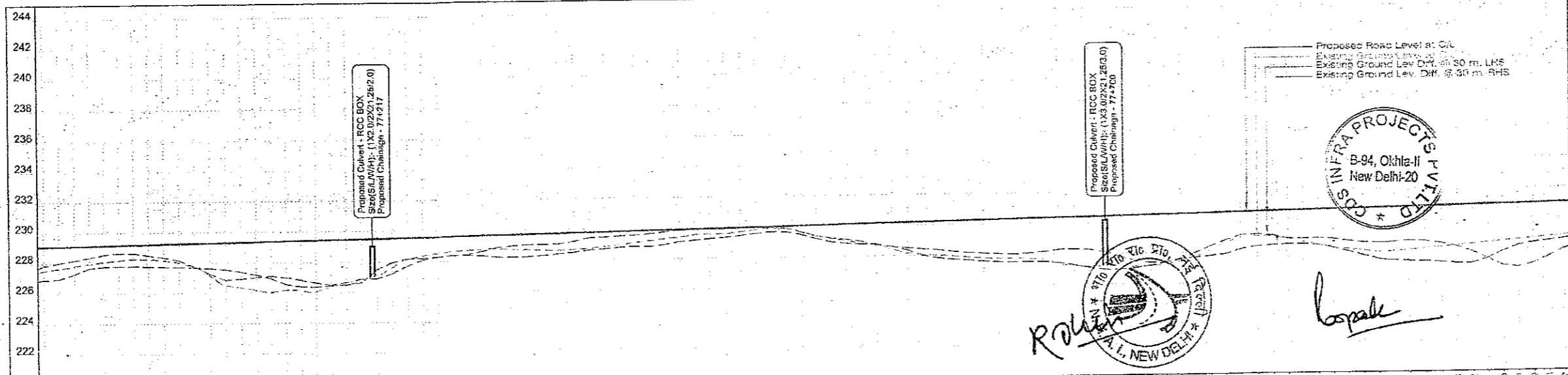
EXISTING LEGEND	
BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX. ROW	
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOWER	
WARE HOUSE	
TREE	



CURVE NO.31	
R(m)	8000.0m
Lc(m)	1557.69m
Ls(m)	0.0m
DELTA	11.2
V(kmph)	120 Km/h
e%	2.5%

RCC BOX CULVERT	
Chainage	77217
Type	RCC BOX
Span/Length	1X2.0/2X1.25(3.0)

RCC BOX CULVERT	
Chainage	77700
Type	RCC BOX
Span/Length	1X3.0/2X1.25(3.0)



Datum	PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	EXISTING GROUND LEVEL DIFF. @ 30 M (LHS) FROM C/L	EXISTING GROUND LEVEL DIFF. @ 30 M (RHS) FROM C/L	PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN C/L	PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY	SUPERELEVATION CROSSFALL (%)	PROPOSED CHAINAGE (MTR.)
220	228.066	1.254	2.205				77000.0
221	228.065	1.082	2.141				77010.0
222	228.121	0.933	1.879				77020.0
223	228.143	0.770	1.463				77030.0
224	228.162	0.584	1.300				77040.0
225	228.182	0.534	1.370				77050.0
226	228.201	0.557	1.410				77060.0
227	228.222	0.722	1.455				77070.0
228	228.259	0.887	1.407				77080.0
229	228.279	1.054	1.540				77090.0
230	228.297	1.209	1.666				77100.0
231	228.315	1.348	1.767				77110.0
232	228.332	1.471	1.851				77120.0
233	228.355	1.576	1.901				77130.0
234	228.374	1.663	1.920				77140.0
235	228.374	1.733	1.911				77150.0
236	228.374	1.785	1.884				77160.0
237	228.374	1.821	1.842				77170.0
238	228.374	1.843	1.788				77180.0
239	228.374	1.851	1.725				77190.0
240	228.374	1.845	1.655				77200.0
241	228.374	1.826	1.580				77210.0
242	228.374	1.795	1.503				77220.0
243	228.374	1.752	1.428				77230.0
244	228.374	1.700	1.357				77240.0
245	228.374	1.641	1.292				77250.0
246	228.374	1.578	1.234				77260.0
247	228.374	1.514	1.184				77270.0
248	228.374	1.451	1.143				77280.0
249	228.374	1.391	1.111				77290.0
250	228.374	1.335	1.088				77300.0
251	228.374	1.284	1.074				77310.0
252	228.374	1.238	1.069				77320.0
253	228.374	1.197	1.073				77330.0
254	228.374	1.162	1.086				77340.0
255	228.374	1.133	1.107				77350.0
256	228.374	1.110	1.135				77360.0
257	228.374	1.094	1.168				77370.0
258	228.374	1.085	1.205				77380.0
259	228.374	1.083	1.245				77390.0
260	228.374	1.088	1.287				77400.0
261	228.374	1.099	1.331				77410.0
262	228.374	1.116	1.376				77420.0
263	228.374	1.139	1.422				77430.0
264	228.374	1.167	1.468				77440.0
265	228.374	1.200	1.514				77450.0
266	228.374	1.237	1.560				77460.0
267	228.374	1.278	1.605				77470.0
268	228.374	1.323	1.650				77480.0
269	228.374	1.371	1.694				77490.0
270	228.374	1.422	1.737				77500.0
271	228.374	1.476	1.779				77510.0
272	228.374	1.533	1.820				77520.0
273	228.374	1.592	1.860				77530.0
274	228.374	1.653	1.898				77540.0
275	228.374	1.716	1.935				77550.0
276	228.374	1.781	1.970				77560.0
277	228.374	1.848	2.003				77570.0
278	228.374	1.917	2.034				77580.0
279	228.374	1.988	2.063				77590.0
280	228.374	2.061	2.090				77600.0
281	228.374	2.136	2.115				77610.0
282	228.374	2.213	2.138				77620.0
283	228.374	2.292	2.159				77630.0
284	228.374	2.373	2.177				77640.0
285	228.374	2.456	2.192				77650.0
286	228.374	2.541	2.204				77660.0
287	228.374	2.628	2.213				77670.0
288	228.374	2.717	2.219				77680.0
289	228.374	2.808	2.222				77690.0
290	228.374	2.901	2.222				77700.0
291	228.374	2.996	2.219				77710.0
292	228.374	3.093	2.213				77720.0
293	228.374	3.192	2.204				77730.0
294	228.374	3.293	2.192				77740.0
295	228.374	3.396	2.177				77750.0
296	228.374	3.501	2.159				77760.0
297	228.374	3.608	2.138				77770.0
298	228.374	3.717	2.115				77780.0
299	228.374	3.828	2.090				77790.0
300	228.374	3.941	2.063				77800.0
301	228.374	4.056	2.034				77810.0
302	228.374	4.173	2.003				77820.0
303	228.374	4.292	1.970				77830.0
304	228.374	4.413	1.935				77840.0
305	228.374	4.536	1.898				77850.0
306	228.374	4.661	1.860				77860.0
307	228.374	4.788	1.820				77870.0
308	228.374	4.917	1.779				77880.0
309	228.374	5.048	1.737				77890.0
310	228.374	5.181	1.694				77900.0
311	228.374	5.316	1.650				77910.0
312	228.374	5.453	1.605				77920.0
313	228.374	5.592	1.560				77930.0
314	228.374	5.733	1.515				77940.0
315	228.374	5.876	1.470				77950.0
316	228.374	6.021	1.425				77960.0
317	228.374	6.168	1.380				77970.0
318	228.374	6.317	1.335				77980.0
319	228.374	6.468	1.290				77990.0
320	228.374	6.621	1.245				78000.0

CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT: Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT: Economic Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE: Horizontal= 1:2000 Vertical= 1:200

DWG TITLE: PLAN & PROFILE (SOHNA - FIROZPUR JHIRKA) (KM. 77+000 TO KM. 78+000)

DRAWING NO: CPC/P-152/BM/EXP/FRP&P/78

DATE: AUGUST 2018

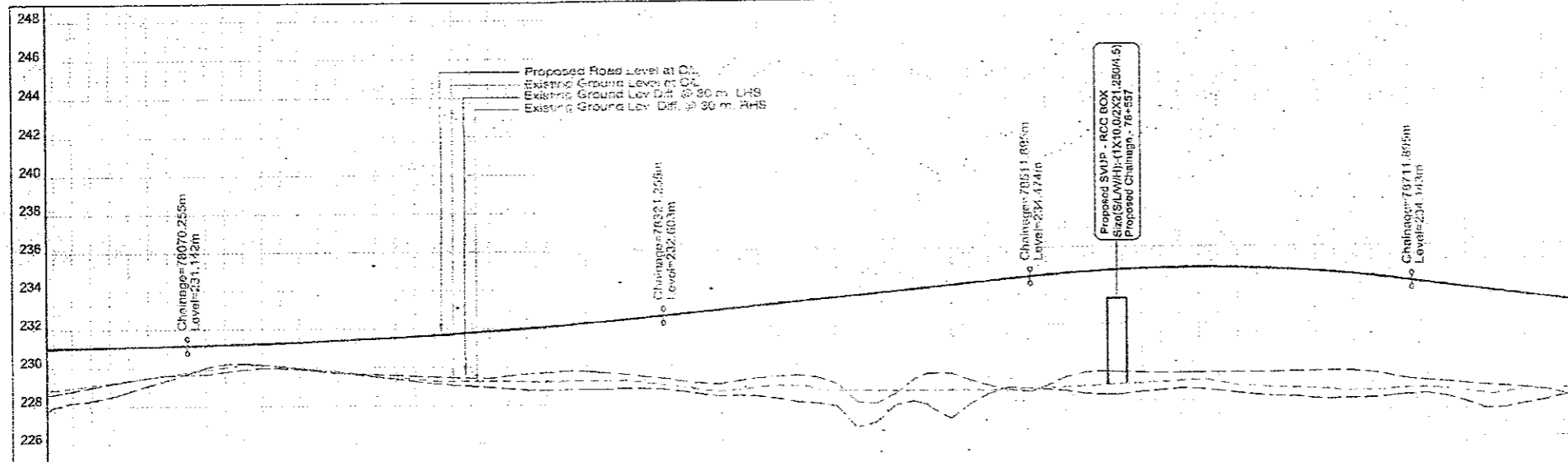
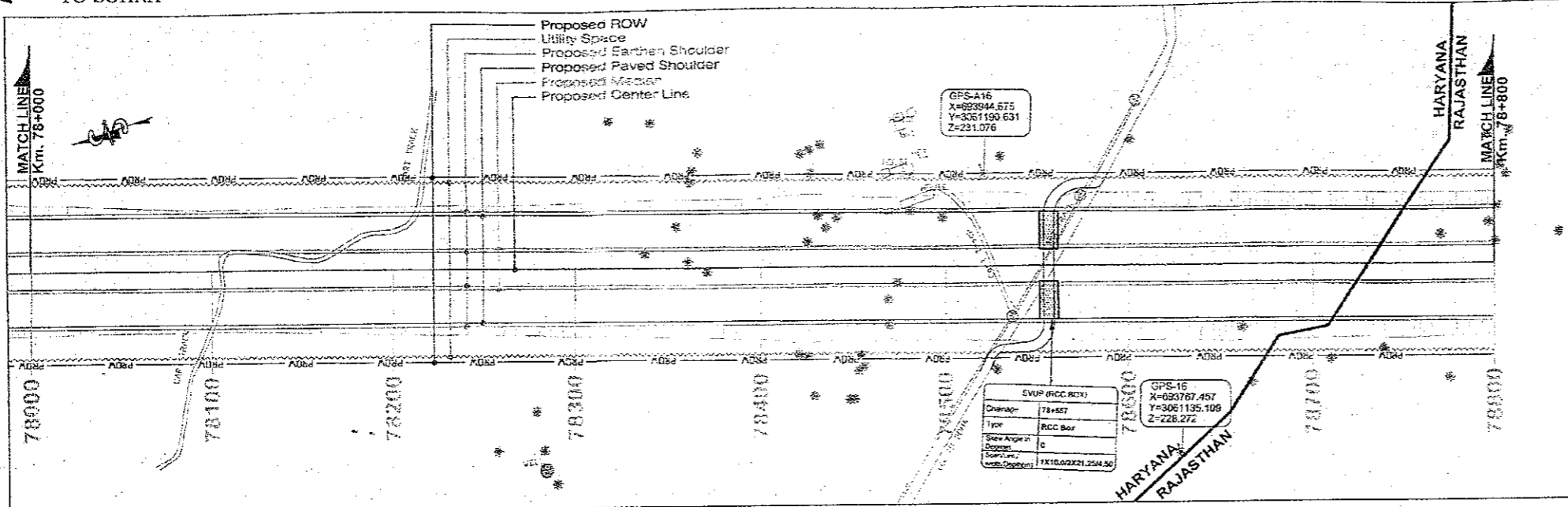
PREPARED BY: R.K.JALANDRA

DESIGNED BY: SANTOSH

CHECKED BY: DHARAMVIR

APPROVED BY: S.K.SINHA

Revision: R0



PROPOSED LEGEND

HIP LINE	
PROP. CL	
MEDIAN	
EDGE STRIP	
PROP. C/W	
PROP. E/S	
UTILITY SPACE	
PROW	P ROW
PROP. CH	
MATCH LINE	
PRO. ROAD LEVEL AT C/L OF C/W	
Ground/Road Level at C/L of Ex.C/W	
EXIS GROUND LEV. DIFF. @ 30 M (LHS) FROM CL	
EXIS GROUND LEV. DIFF. @ 30 M (RHS) FROM CL	
SUPER ELEVATION	Q
GRADIENT	G
GRID	

EXISTING LEGEND

BRIDGE	
BRANCH ROAD	
BUILDING / STRUCTURE	
BUS STOP	
BOUNDARY WALL	
CENTER LINE	
CULVERT	
DRAIN	
ELECTRIC POLE	
EX ROW	EX ROW
EXISTING ROAD	
GATE	
HAND PUMP	
HUT	
KILOMETER STONE	
LAMP POST	
MEDIAN	
OFC	
PILLAR	
PETROL PUMP	
RIVER/NALA	
RAILWAY TRACK	
ROW PILLAR	
SIGN BOARD	
TELEPHONE POLE	
TEMPLE	
TRANSFORMER	
TOILET	
TOWER	
WARE HOUSE	
TREE	

Datum	224	226	228	230	232	234	236	238	240	242	244	246	248																		
PROPOSED ROAD LEVEL AT MEDIAN CENTER LINE (M)	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000																		
GROUND ROAD LEVEL AT C/L OF EXISTING CARRIAGEWAY (M)	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000	224.000																		
EXISTING GROUND LEVELS DIFF. @ 30 M (LHS) FROM CL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																		
EXISTING GROUND LEVELS DIFF. @ 30 M (RHS) FROM CL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																		
PROPOSED HORIZONTAL ALIGNMENT AT MEDIAN CL																															
PROPOSED VERTICAL ALIGNMENT LEFT - RIGHT CARRIAGEWAY																															
SUPERELEVATION CROSSFALL (%)																															
PROPOSED CHAINAGE (MTR.)	78000.0	78010.0	78020.0	78030.0	78040.0	78050.0	78060.0	78070.0	78080.0	78090.0	78100.0	78110.0	78120.0	78130.0	78140.0	78150.0	78160.0	78170.0	78180.0	78190.0	78200.0	78210.0	78220.0	78230.0	78240.0	78250.0	78260.0	78270.0	78280.0	78290.0	78300.0

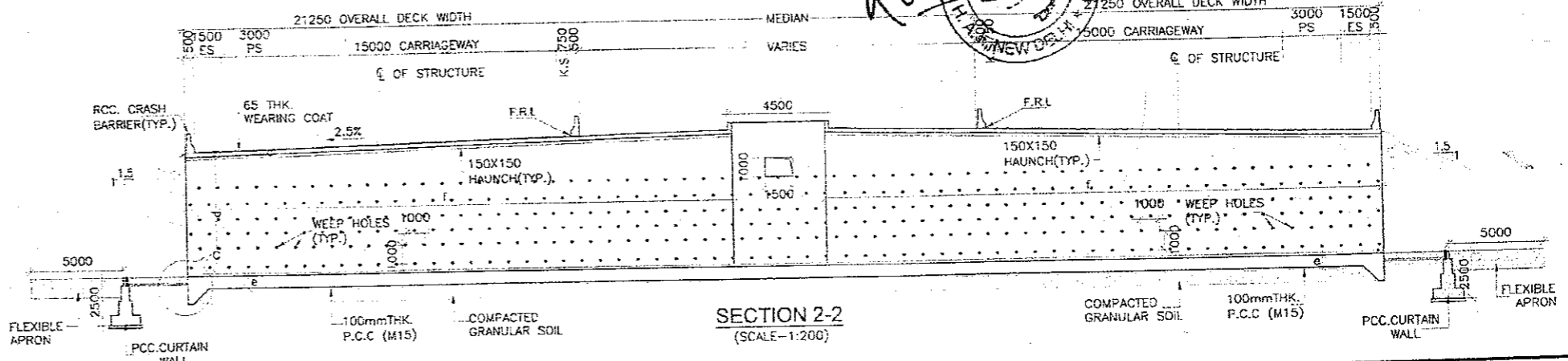
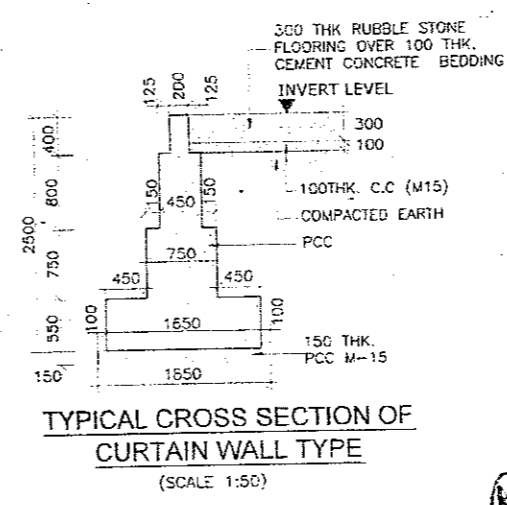
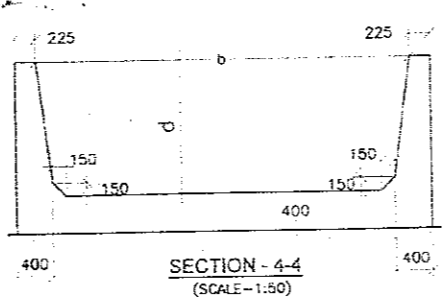
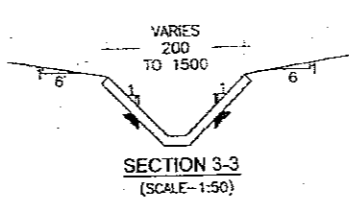
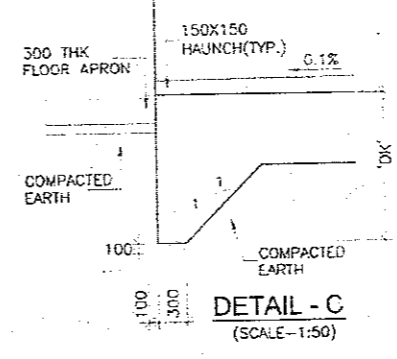
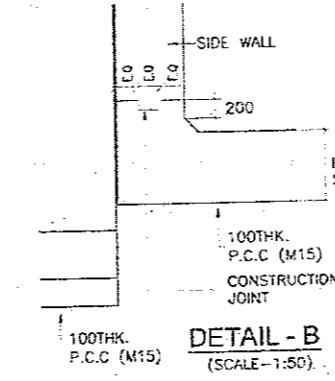
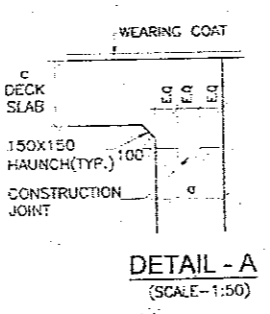
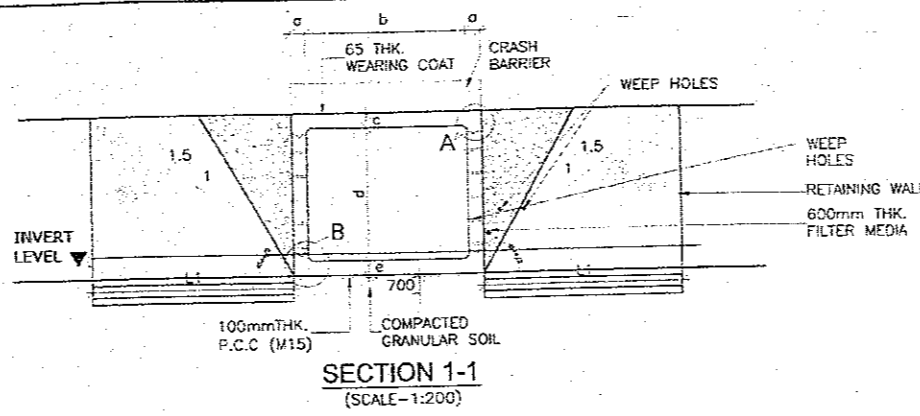
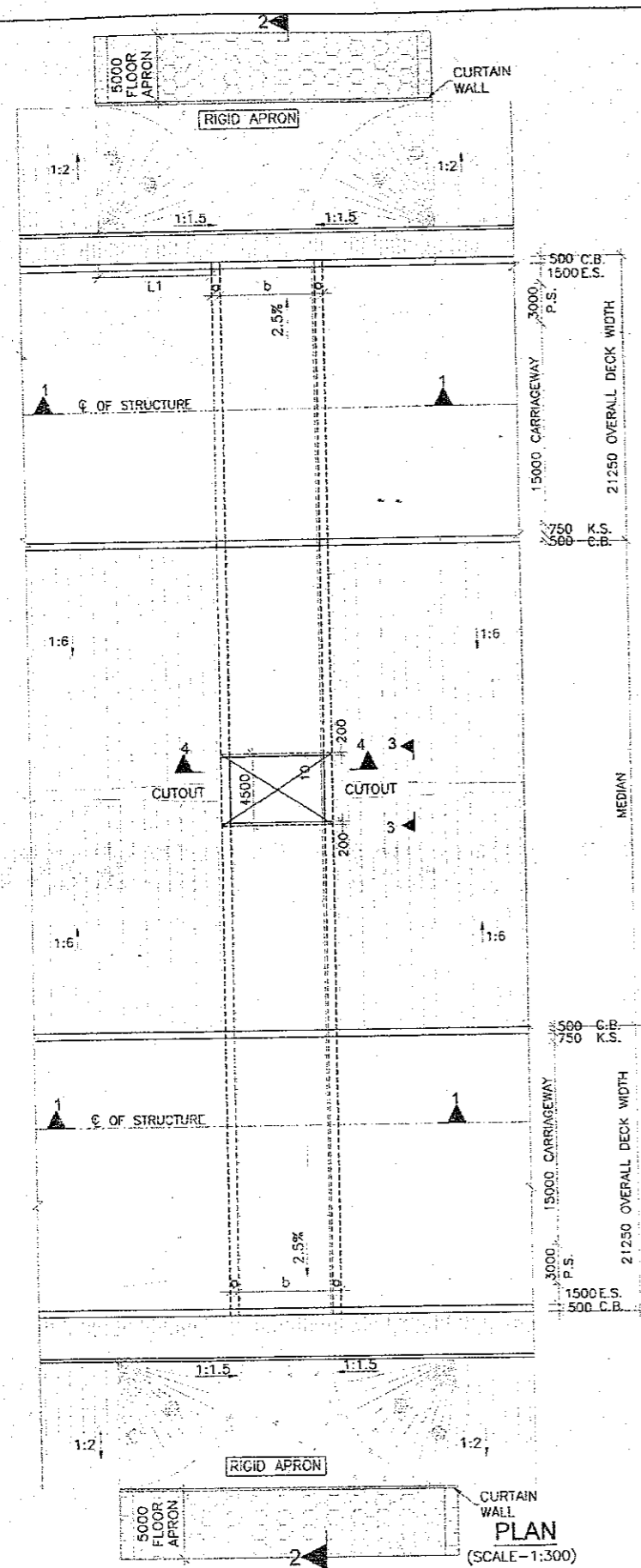
COS INFRA PROJECTS PVT LTD
B-94, Okhla-II
New Delhi-20

99

NEW DELHI

CLIENT: National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT: Chaityanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAJSHALI, GHAZIABAD PH.: 01220-3223419, 4120472, FAX: 01220-4110472	PROJECT: Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE: Horizontal= 1:2000 Vertical= 1:200	DWG TITLE: PLAN & PROFILE {SOHNA - FIROZPUR JHIRKA} {KM. 78+000 TO KM. 78+800}	DRAWING No. :- CPC/P-152/BM/EXP./FR/P&P/79 DATE: AUGUST 2018 Revision: R0 PREPARED BY: R.K.JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARAMVIK APPROVED BY: S.K.SINHA
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Corrigendum Drawings

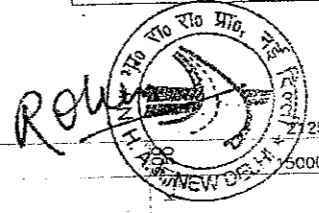


- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - CHAINAGE & LEVEL SHALL BE VERIFIED WITH THE RELEVANT PLAN & PROFILE DRAWINGS. VARIATION (IF ANY) SHALL BE REPORTED TO ENGINEER FOR MODIFICATION.
 - PROPERTIES OF SELECTED BACK FILL BEHIND RETAINING WALL SHALL BE AS FOLLOWS:-
C=0, $\phi > 30^\circ$ = 2.0 t/m³
 - EXPANSION GAP (20mm) WILL BE FILLED UP BY ASPHALTIC PLUG EXPANSION JOINT.
 - GRADE OF CONCRETE IN VARIOUS ELEMENTS SHALL BE AS FOLLOWS:-
PCC CURTAIN WALL : M15
CRASH BARRIER : METAL BEAM
RETAINING WALL : M30
 - NET SAFE BEARING CAPACITY AT FOUNDING LEVEL FOR DESIGN IS AS FOLLOWS:-
BOX : 10 t/m²
 - WEAP HOLES SHALL BE PROVIDED @ 1000 MM C/C STAGGERED. BOTH HORIZONTALLY AND VERTICALLY IN RETAINING WALL FROM GROUND LEVEL TO HIGH FLOOD LEVEL.
 - BACKFILLING BEHIND BOX SHALL BE CARRIED OUT SIMULTANEOUSLY.
 - GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.2008
 - 65MM THICK WEARING COAT SHALL CONSIST OF LAYER OF MASTIC ASPHALT OF 25mm THK. OVER 40MM BITUMINOUS COURSE.
 - "d" IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS VALUE OF 'd'
UPTO 900mm : 1200mm.
GREATER THAN 900mm : d+300mm
d = BASE SLAB THICKNESS
 - 600 THK. FILTER MEDIA SHALL BE PROVIDED BEHIND RETAINING WALL.
 - FOR DETAILS OF RETAINING WALL & FLOOR PROTECTION WORKS REFER SEPARATE DRAWINGS.
 - THIS STRUCTURE LIES IN SEISMIC ZONE IV.
 - F.R.L IS TAKEN AT MEDIAN EDGE.
 - CONDITION OF EXPOSURE IS MODERATE.
 - REFER SHEET 2 OF 2 FOR RETAINING WALL DETAILS.

Span/Cell Arrangement	Span(b)	Clear opening (d)	Top slab (c)	Bottom Slab (e)	Side wall (a)
1x2.0x1.5	2.0	1.5	0.225	0.225	0.225
1x2.0x2.0	2.0	2.0	0.225	0.225	0.225
1x3.0x2.5	3.0	2.5	0.225	0.250	0.250
1x3.0x3.0	3.0	3.0	0.225	0.250	0.250
1x4.0x2.0	4.0	2.0	0.250	0.275	0.275



Signature



CLIENT:-
National Highways Authority of India
(Ministry of Road, Transport & Highways, Govt. of India)

CONSULTANT:-
Chaitanya Projects Consultancy Pvt. Ltd.
C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD
PH.: 0120-3223419, 4120472, FAX: 0120-4110472

PROJECT:-
Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka

SCALE:-
AS SHOWN

DWG TITLE:-
GENERAL ARRANGEMENT BOX CULVERT (WITHOUT FILLING) PACKAGE-3

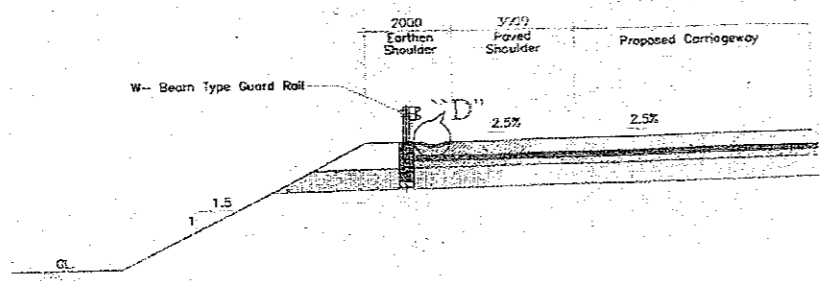
DRAWING No :- CPC/P-152/B.C./S-100

DATE : SEPTEMBER 2018

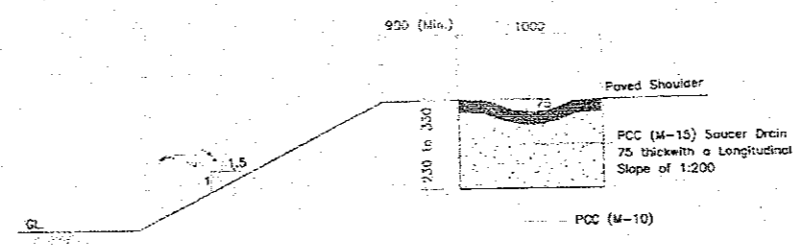
PREPARED BY : P.K.S. **CHECKED BY :** M.S. **APPROVED BY :** A.C.

Revision: RD

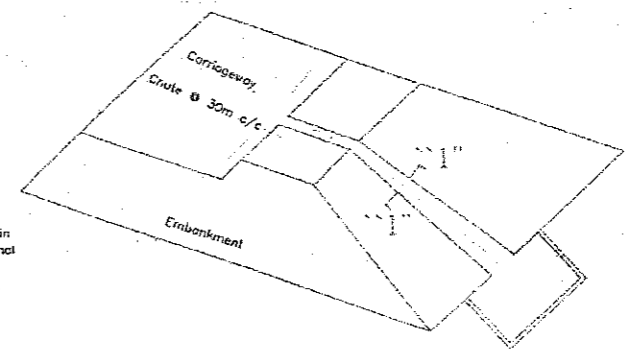
SHEET 1 OF 2



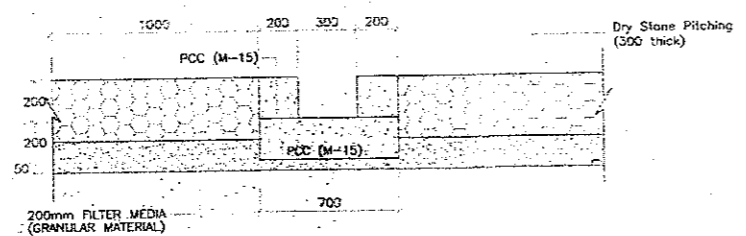
Road Side Drain in High Embankment for Smooth Water Flow to Chute
(Scale-1:100)



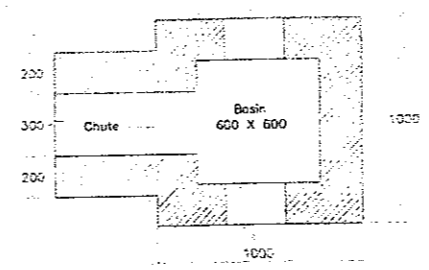
Detail at "D"
(Scale-1:25)



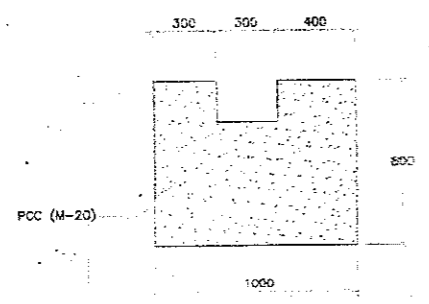
Aerial View of Chute & Basin
(Not to scale)



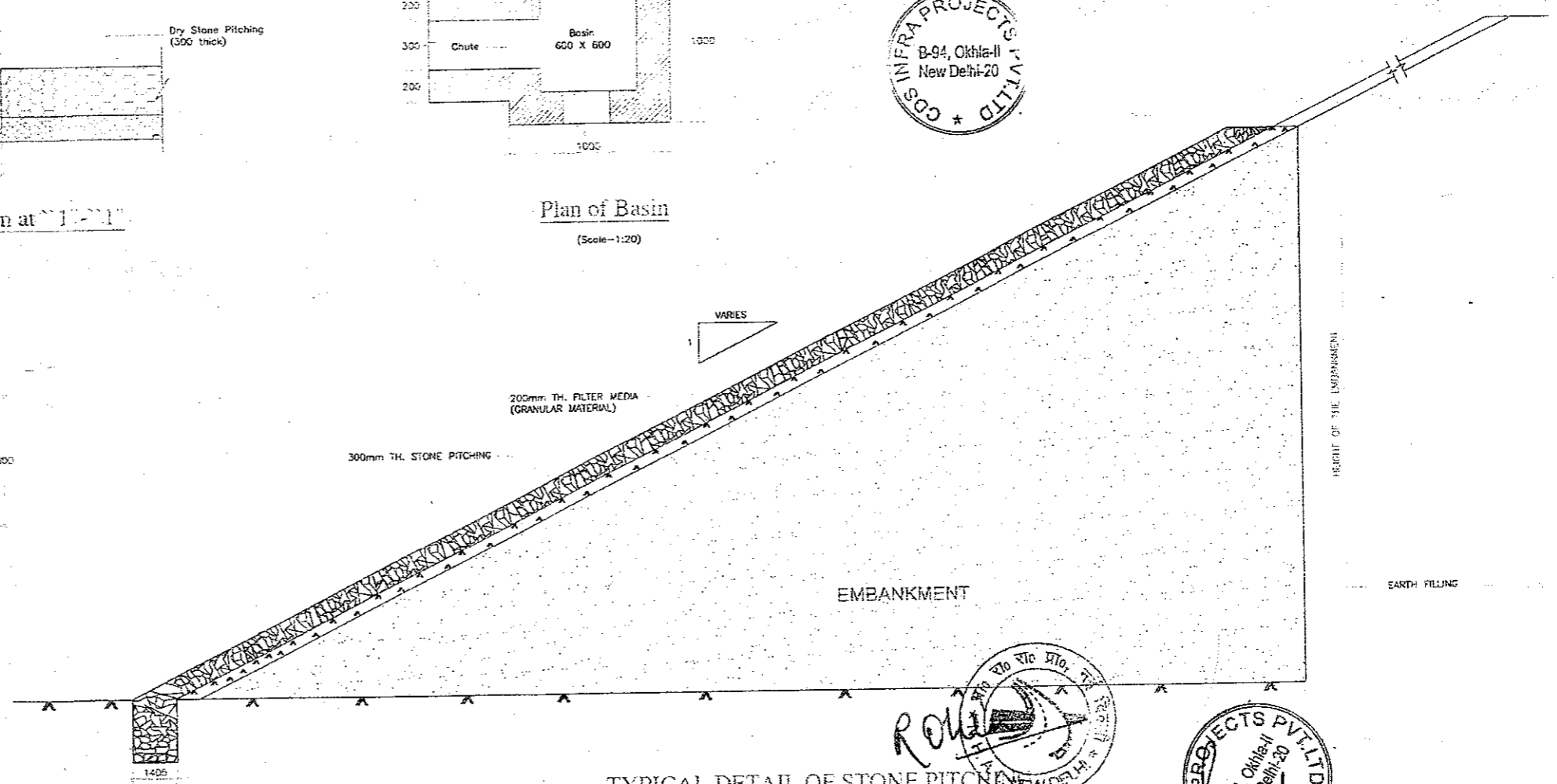
Chute Cross Section at "1-1"
(Scale-1:20)



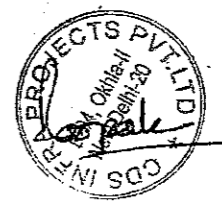
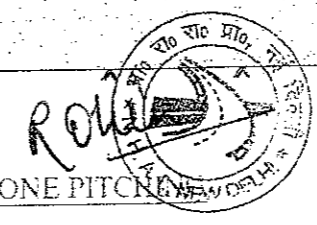
Plan of Basin
(Scale-1:20)



Side View of Basin
(Scale-1:20)



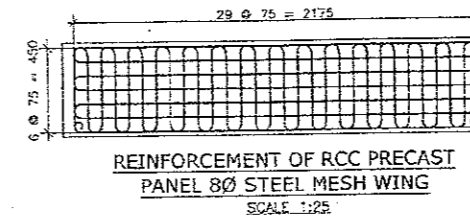
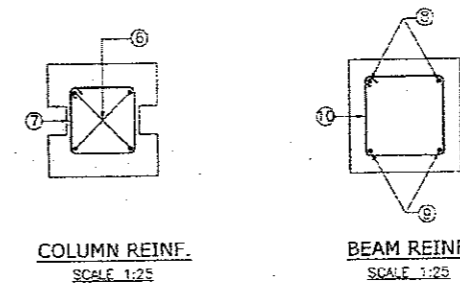
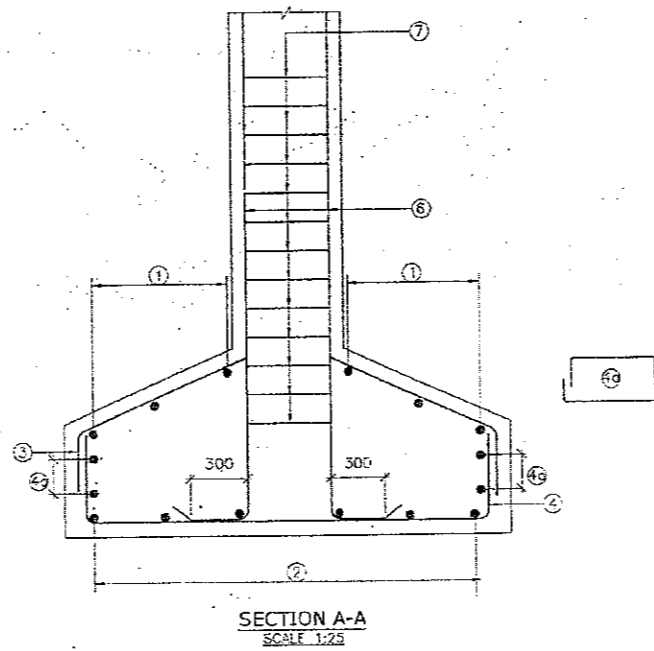
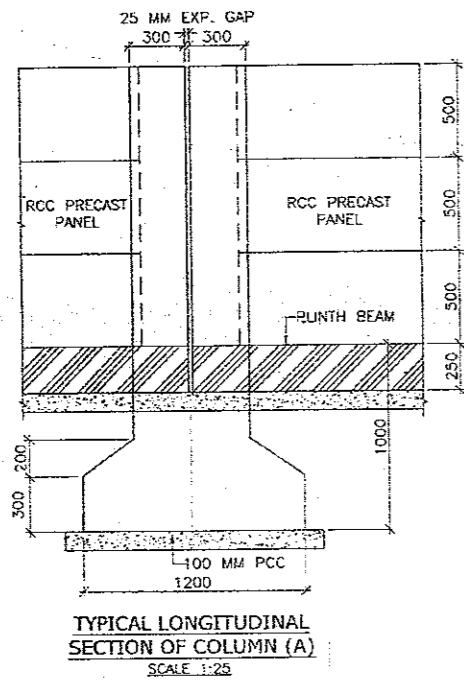
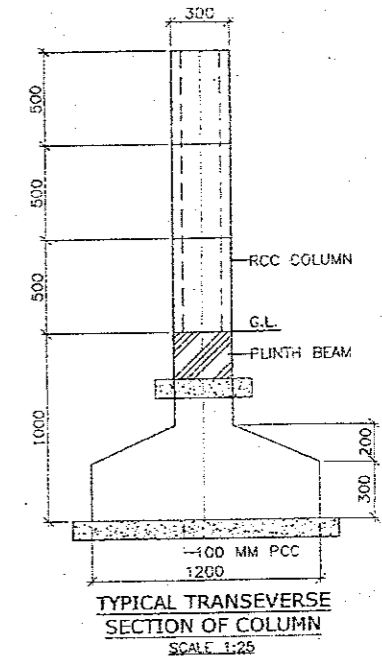
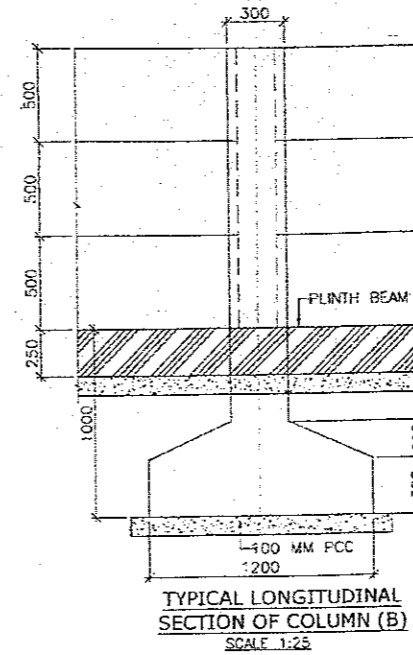
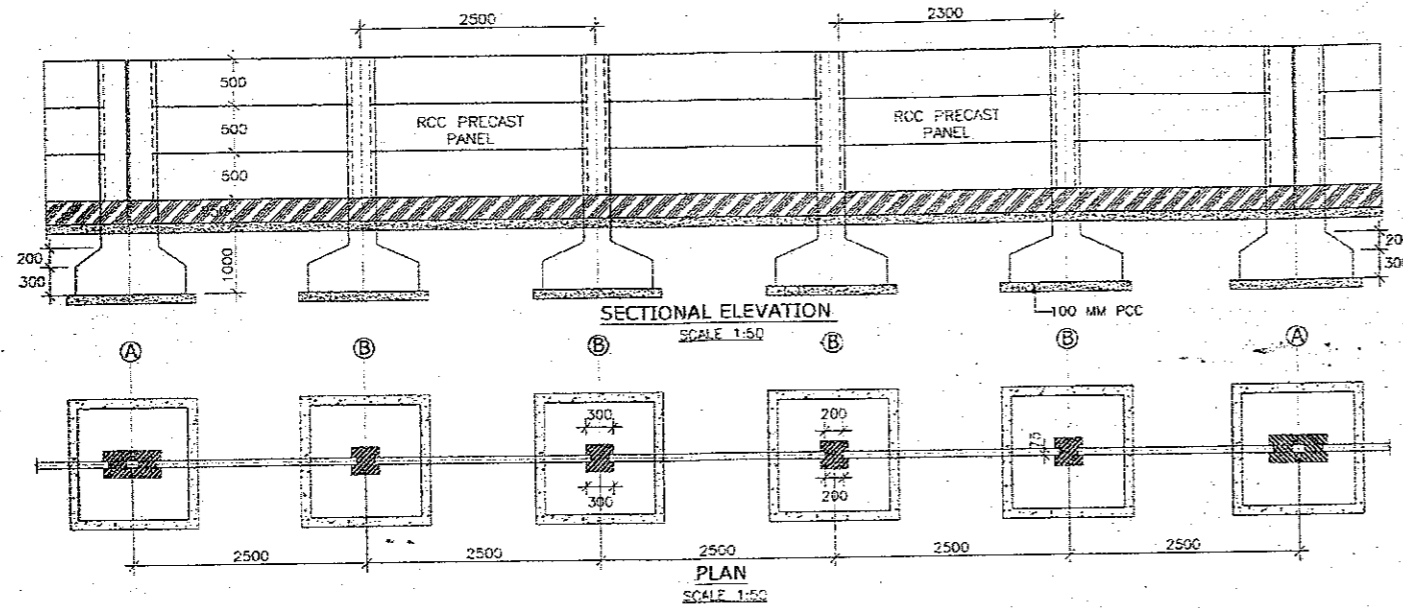
TYPICAL DETAIL OF STONE PITCHING



Notes:-

- All dimensions are in millimetres unless otherwise specified.
- For Pitching / Filter Media is to be carried out as per the clause No. 2504 of MORT&H Specification.

CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)	SCALE :- AS SHOWN	DWG TITLE:- TYPICAL DETAIL OF CHUTE DRAIN AND OTHER RELATED WORKS	102 DRAWING No :- CPC/P-152/BM/EXP./FR/MISC./01	DATE : AUGUST 2018 Revision: R0			
						PREPARED BY R.K. JALANDRA	DESIGNED BY SANTOSH	CHECKED BY DHARAMVIR	APPROVED BY S.K. SINHA

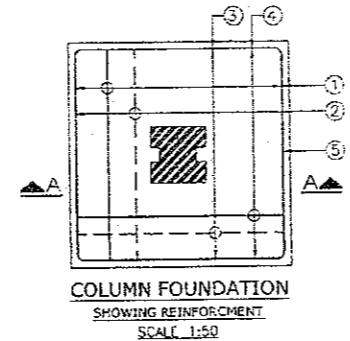
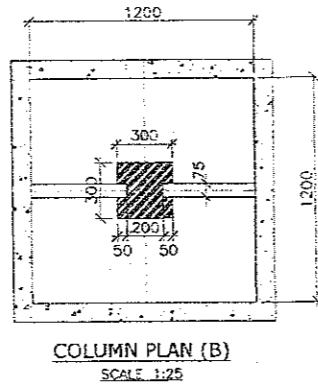
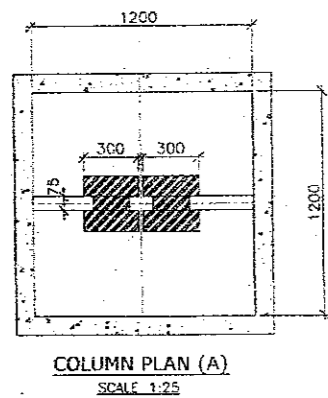


REINFORCEMENT SCHEDULE

BAR MARK	BAR DIA (mm)	SPACING/NUMBER (mm)	REMARK
1	10	@ 200 c/c	
2	10	@ 200 c/c	
3	10	@ 200 c/c	
4	10	@ 200 c/c	
4a	10	@ 200 c/c	EACH FACE
5	10	@ 200 c/c	
6	16	4 Nos.	
7	8	@ 200 c/c	
8	12	2 Nos.	
9	16	2 Nos.	
10	8	@ 200 c/c	

LEGEND

TOP BAR	—————
BOTTOM BAR	—————
L.V. - - - - -	LENGTH VARIES



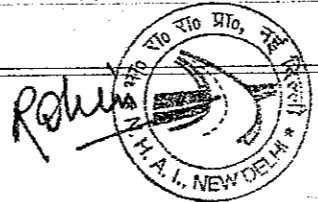
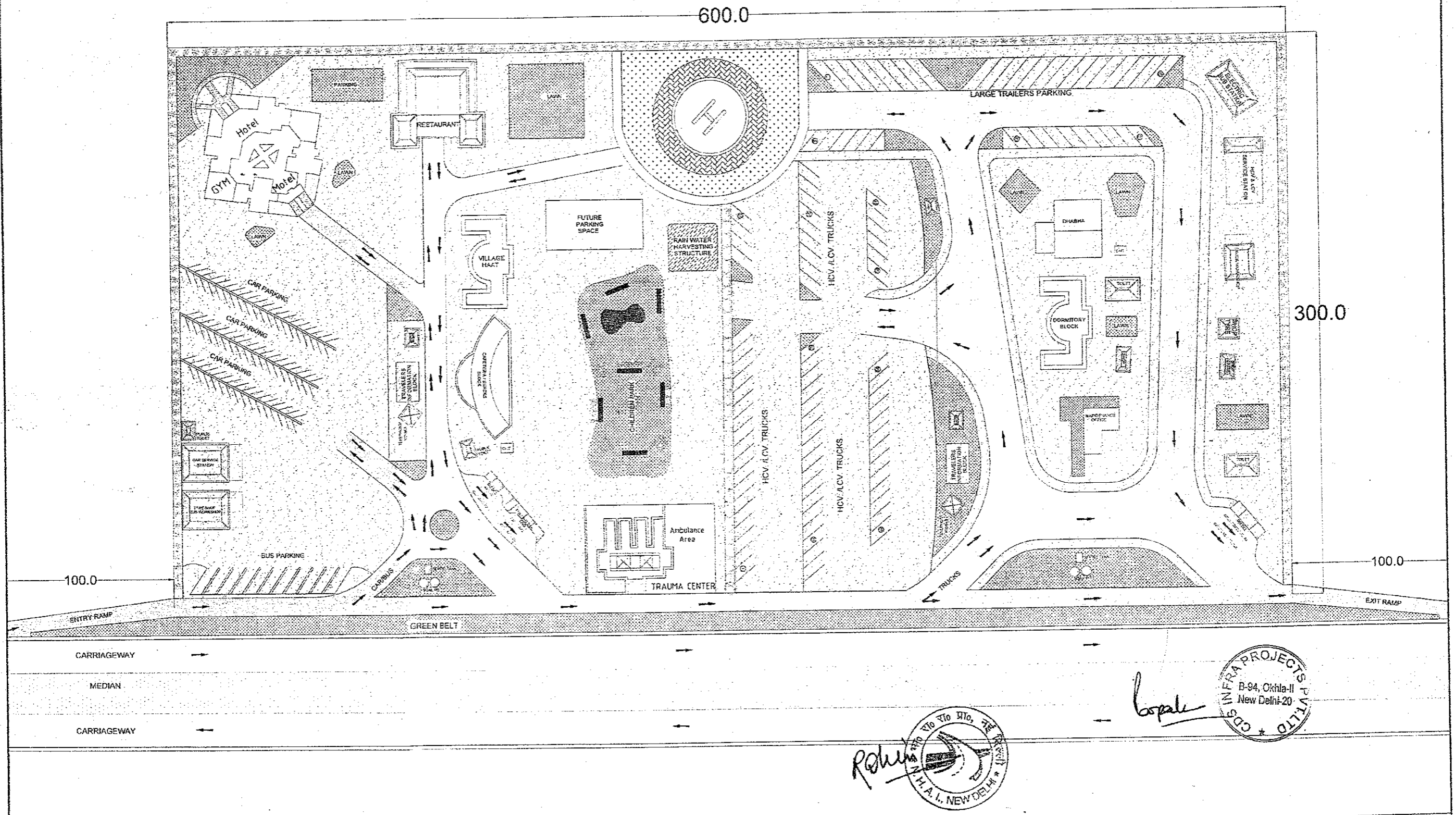
- NOTES:-**
- ALL DIMENSIONS ARE IN mm. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL BE OF GRADE AS INDICATED BELOW:-
PCC LEVELLING COURSE : M-15
BEAM & COLUMN : M-25
 - GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786.
 - CLEAR COVER TO OUTER STEEL SHALL BE AS FOLLOWS:-
c. BEAM & COLUMN : 50MM
b. FOUNDATION : 50MM

RO. P. S. A. L., NEW DELHI

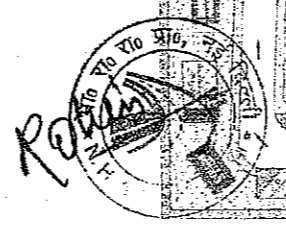
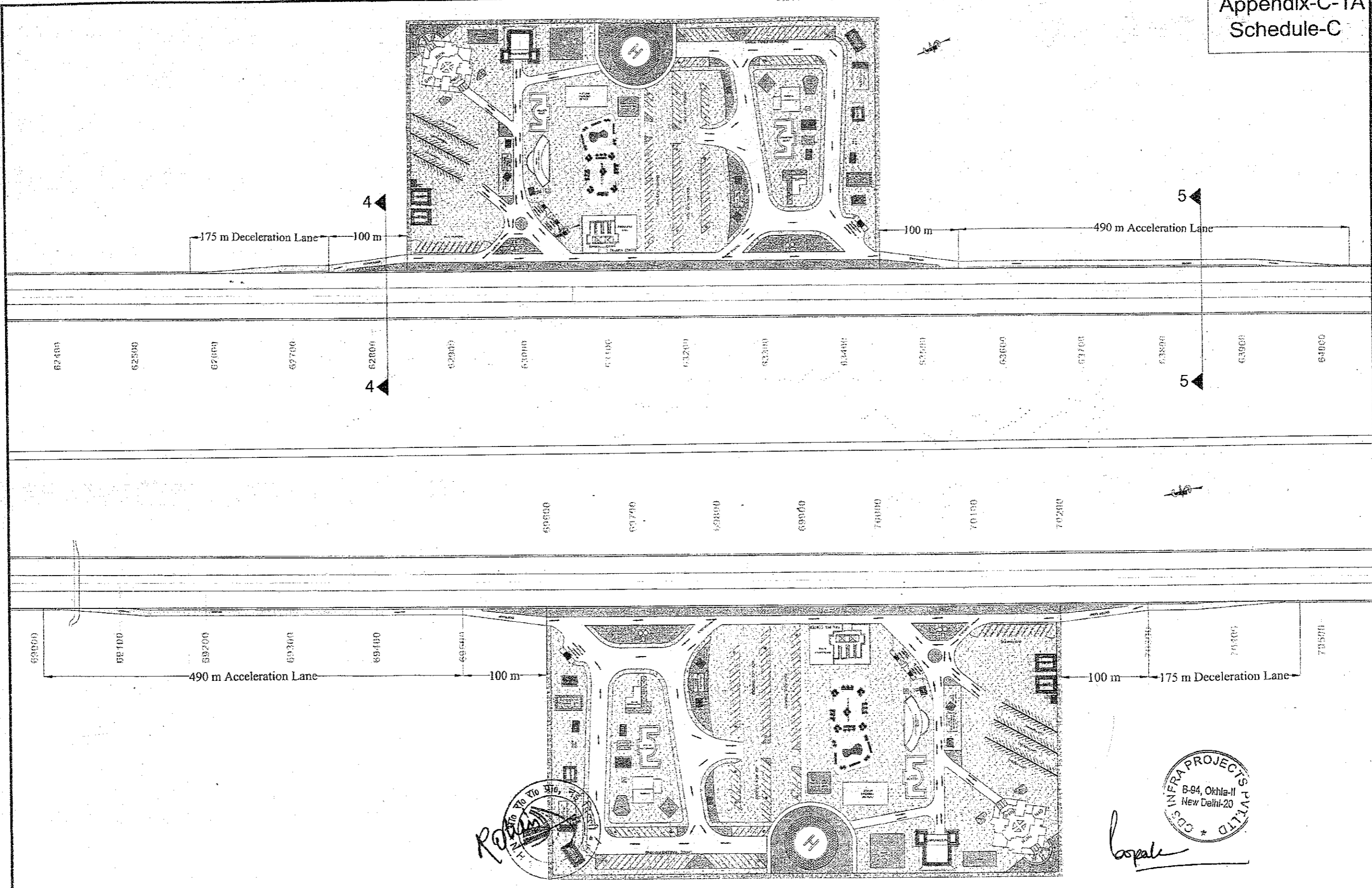
CDSS INFRA PROJECTS PVT. LTD.
B-94, Okhla-II
New Delhi-20

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CLIENT:- National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE:- AS SHOWN	DWG TITLE:- TYPICAL DETAIL & REINFORCEMENT DRAWING OF PRECAST BOUNDARY WALL PACKAGE-3	DRAWING No. :- 103 CPC/P-152/B.W./S-100	SHEET 1 OF 1
					DATE : OCTOBER 2018	Revision: R0
PREPARED BY P.K.S.	CHECKED BY M.S.	APPROVED BY A.C.				



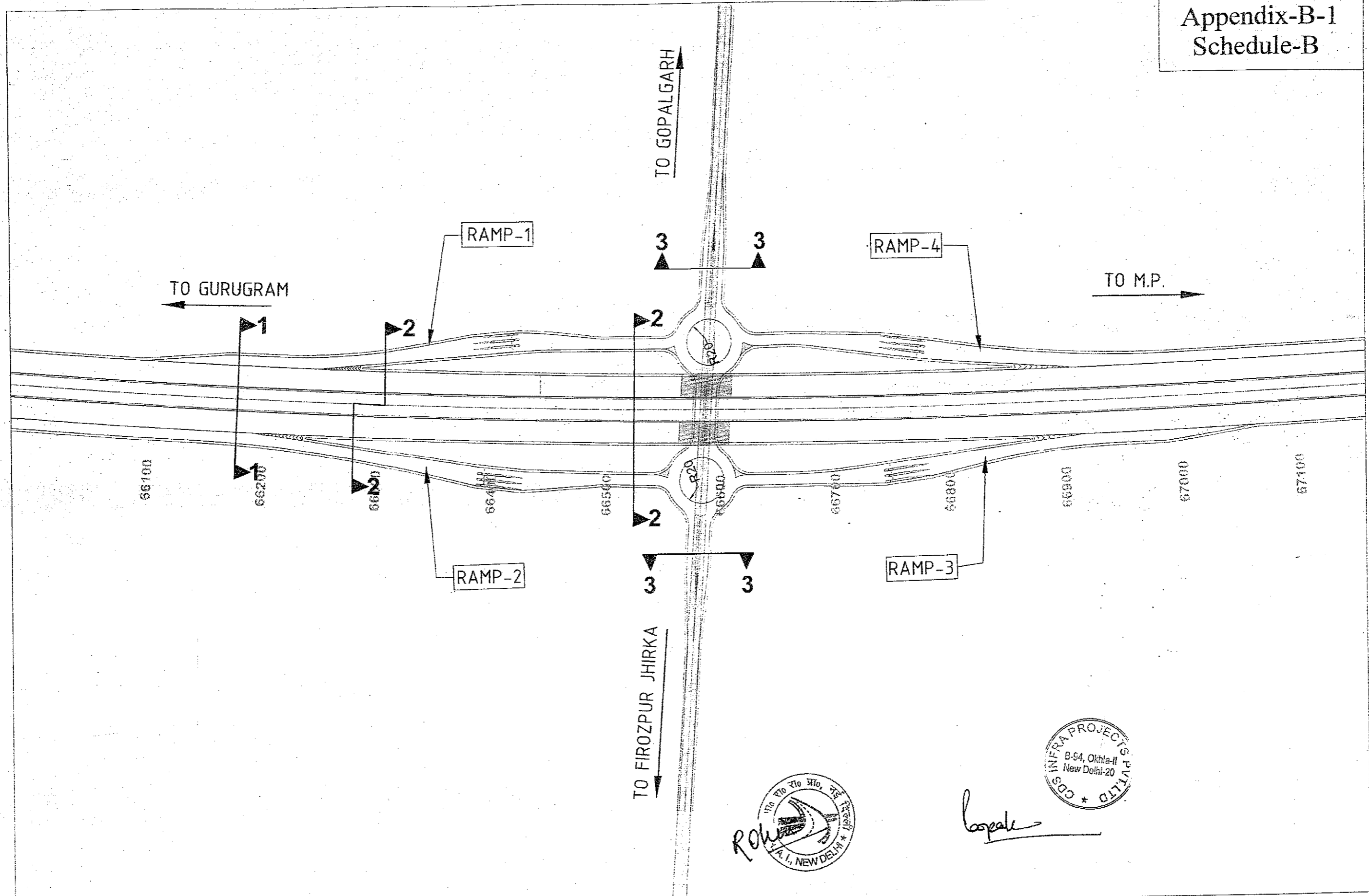
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)	SCALE :- NTS.	DWG TITLE:- LAYOUT PLAN OF WAYSIDE AMENITIES AT CH- 65-140 (LHS) & CH- 69:900 (RHS)	104 DRAWING No :- CPC/P-152/BM/EXP./FR/NSA/04	DATE: SEPTEMBER 2010 Revision: R0			
						PREPARED BY: KUNTI	DESIGNED BY: SANTOSH	CHECKED BY: DBARAMVIR	APPROVED BY: S.K.SINHA



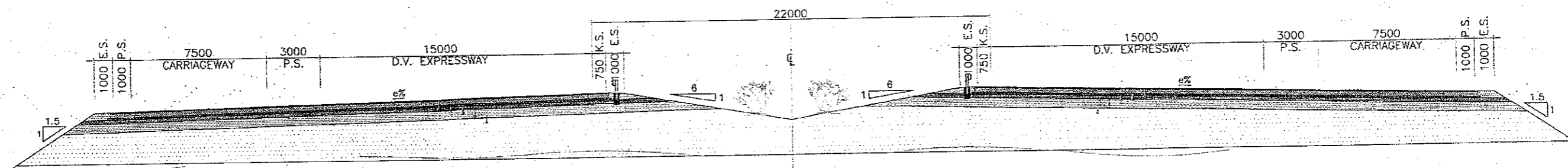
<p>CLIENT:- National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small></p>	<p>CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- NTS.</p>	<p>DWG TITLE:- LAYOUT PLAN OF WAYSIDE AMENITIES AT CH- 63-140 (LHS) & CH- 69-900 (RHS)</p>	<p>DRAWING No :- CPC/IP-152/BM/EXP./FRWSA/05 DATE : SEPTEMBER 2018 Revision: R0 PREPARED BY: KUNTI DESIGNED BY: SANTOSH CHECKED BY: DHARAMVIR APPROVED BY: S.K. SENHA</p>
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105

Appendix-B-1
Schedule-B



CLIENT:- National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation of Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)	SCALE :- NTS.	DWG TITLE:- LAYOUT PLAN OF DIAMOND INTERCHANGE AT CH- 66+587	106 DRAWING No :- CPC/P-152/BM/EXP/FR/INT/03	DATE : SEPTEMBER 2018	Revision: R0
						PREPARED BY KUNTI	DESIGNED BY SANTOSH



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DBM
WMM
CT SUB BASE
SUBGRADE

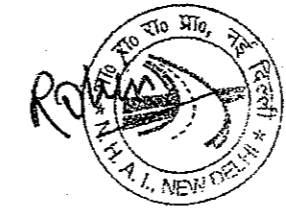
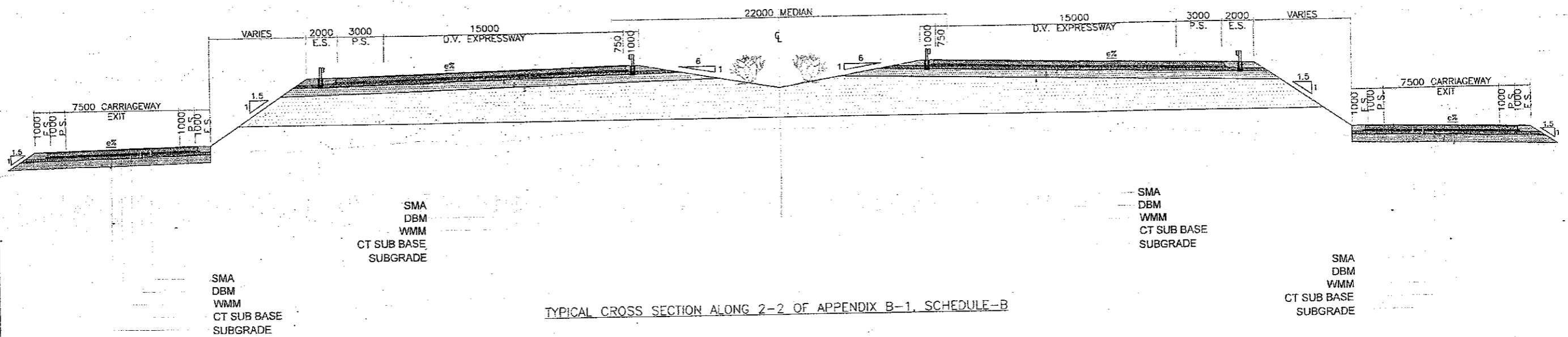
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TYPICAL CROSS SECTION ALONG 1-1 OF APPENDIX B-1, SCHEDULE-B

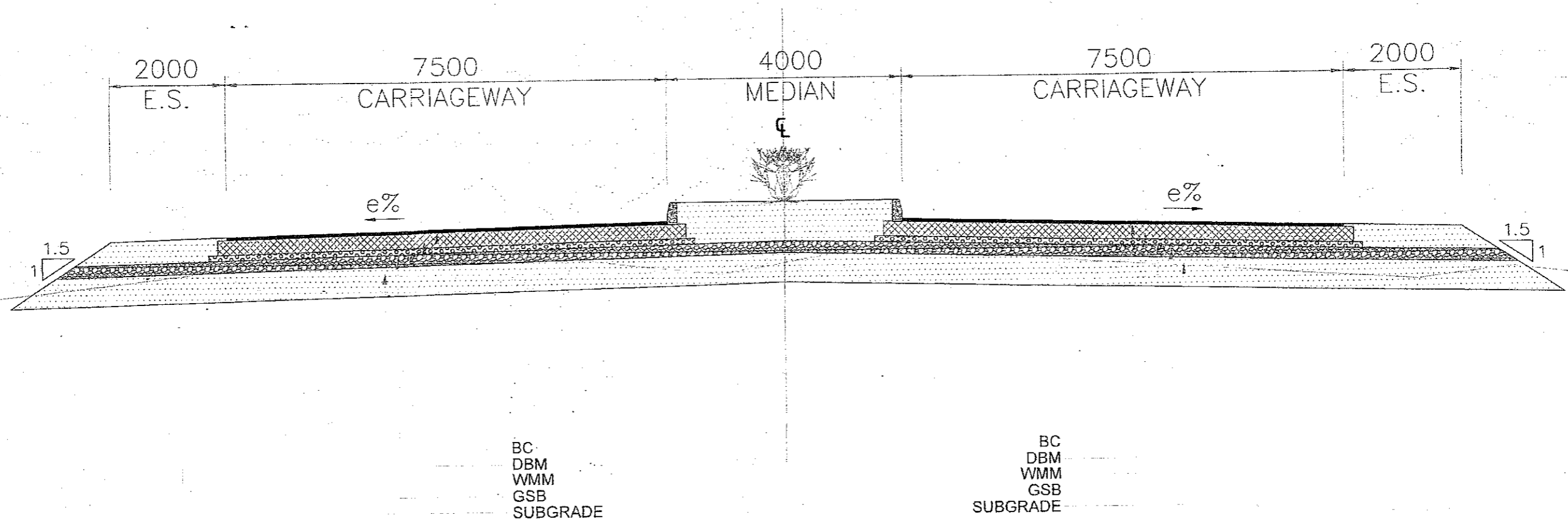


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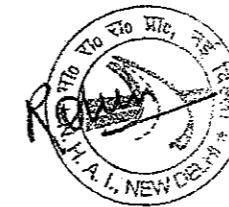
CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- NTS	DWG TITLE:- TYPICAL CROSS SECTION SECTION 1-1 107	DRAWING No :- CPC/P-152/BM/EXP.JFR/TCS/01
					DATE : OCTOBER 2018 PREPARED BY : R.K. JALANDRA DESIGNED BY : SANTOSH CHECKED BY : DHARAMVIR APPROVED BY : S.K. SINHA





CLIENT -  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT -  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT - Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sonha - Firozpur Jhirka	SCALE - NTS	DWG TITLE - TYPICAL CROSS SECTION SECTION 2-2	DRAWING No - 108 CPCP-152/BM/EXP/JFR/TCS/02

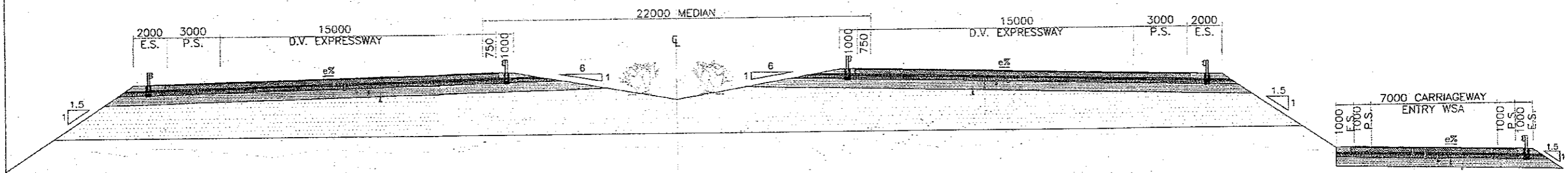


TYPICAL CROSS SECTION ALONG 3-3 OF APPENDIX B-1, SCHEDULE-B



Signature

CLIENT-  National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- NTS	DWG TITLE:- TYPICAL CROSS SECTION SECTION 3-3	DRAWING No :- CPC/P-152/BM/EXP/JR/TC/03
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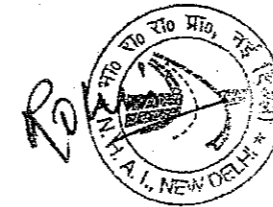


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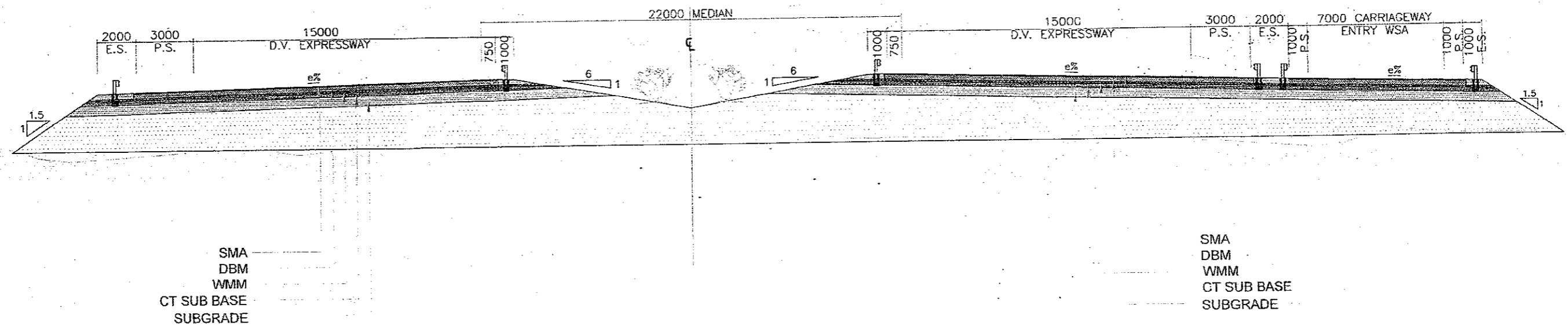
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Signature



CLIENT:- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- NTS	DWG TITLE:- TYPICAL CROSS SECTION SECTION 4-4	DRAWING No :- CPC/P-152/BMEXP./FR/TCS/04
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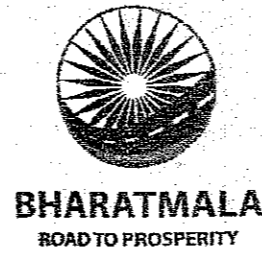
TYPICAL CROSS SECTION ALONG 5-5 OF APPENDIX C-1A, SCHEDULE-C

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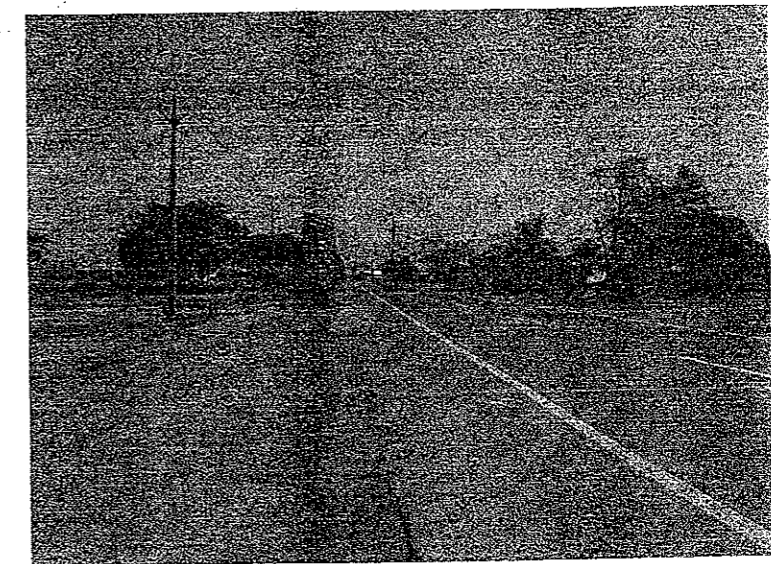
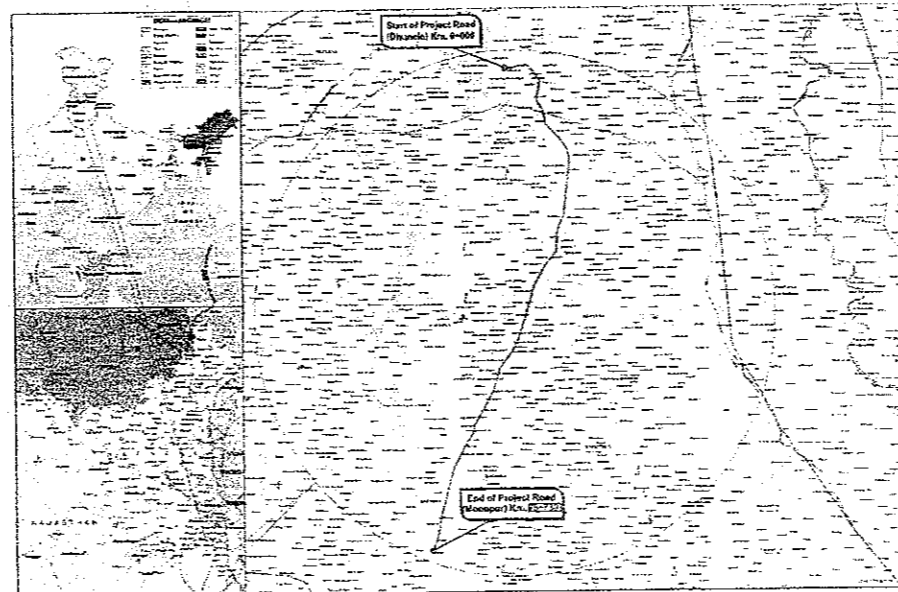
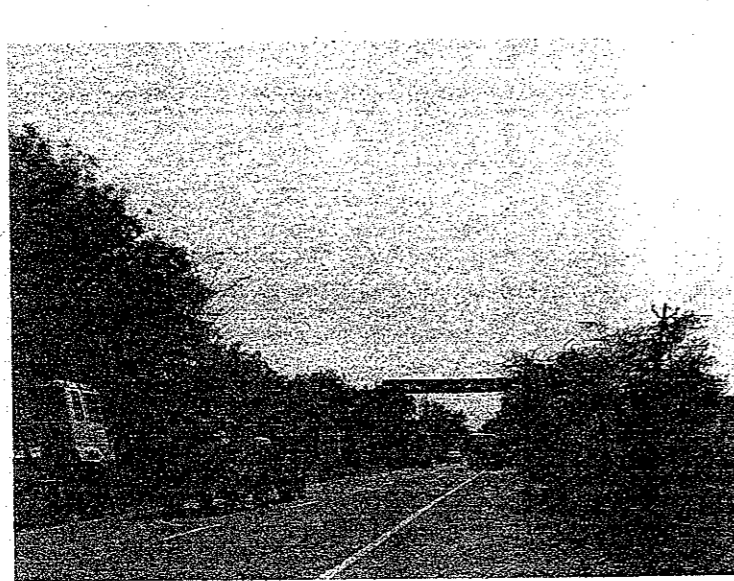
CHAITANYA PROJECTS PVT. LTD.
 B-94, Okhla-II
 New Delhi-20

CLIENT- National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka	SCALE :- NTS	DWG TITLE:- 111 TYPICAL CROSS SECTION SECTION 5-5	DRAWING No :- CPC/P-152/BM/EXP./FR/TCS/05
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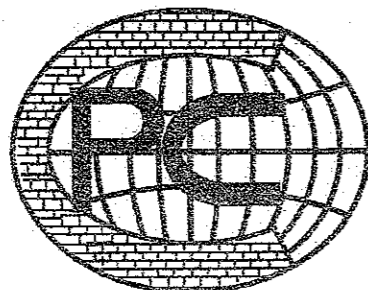


National Highways Authority of India

Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4) of Sohna - Firozpur Jhirka



ROAD SIGNAGE & MARKING PLAN OF SOHNA- FIROZPUR JHIRKA SECTION-
OF DELHI-VADODARA EXPRESSWAY
PACKAGE-III (Km. 47+000 to Km. 78+800)
SEPTEMBER 2018

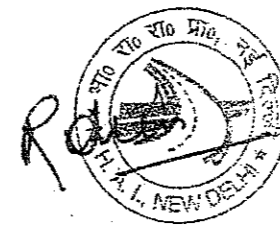


Chaitanya Projects Consultancy Pvt. Ltd.

C-5, 2nd Floor, Plot No. 21-22, R.K. Tower, Sector-4,
Vaishali, Ghaziabad – 201010
Ph:- 0120-3223419, 4120472, Fax:- 0120-4110472
Email:- chaitanya.projects@gmail.com

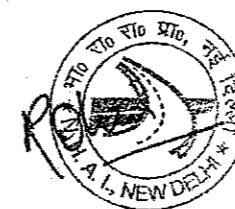


Traffic Signage



Cooper

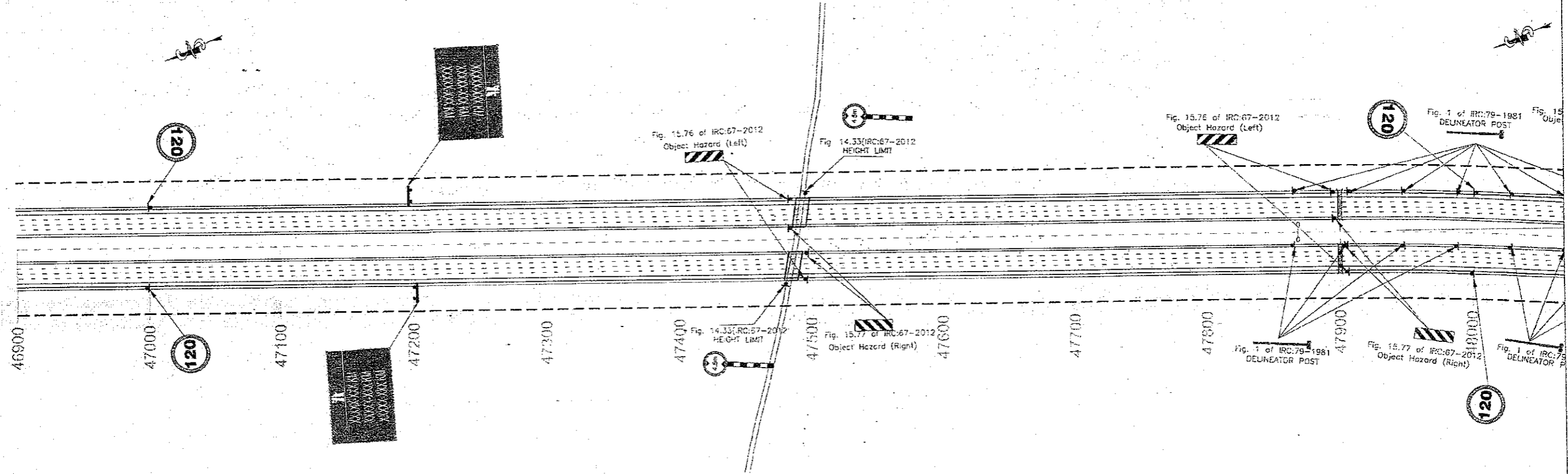
ROAD SIGNAGE & MARKING PLAN
SOHNA- FIROZPUR JHIRKA SECTION OF DELHI-VADODARA EXPRESSWAY
PACKAGE-III (Km. 47+000 to Km. 78+800)



Coopale



TO FIROZPUR JHIRKA →

← TO SOHNA



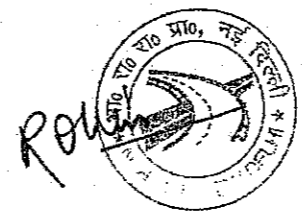
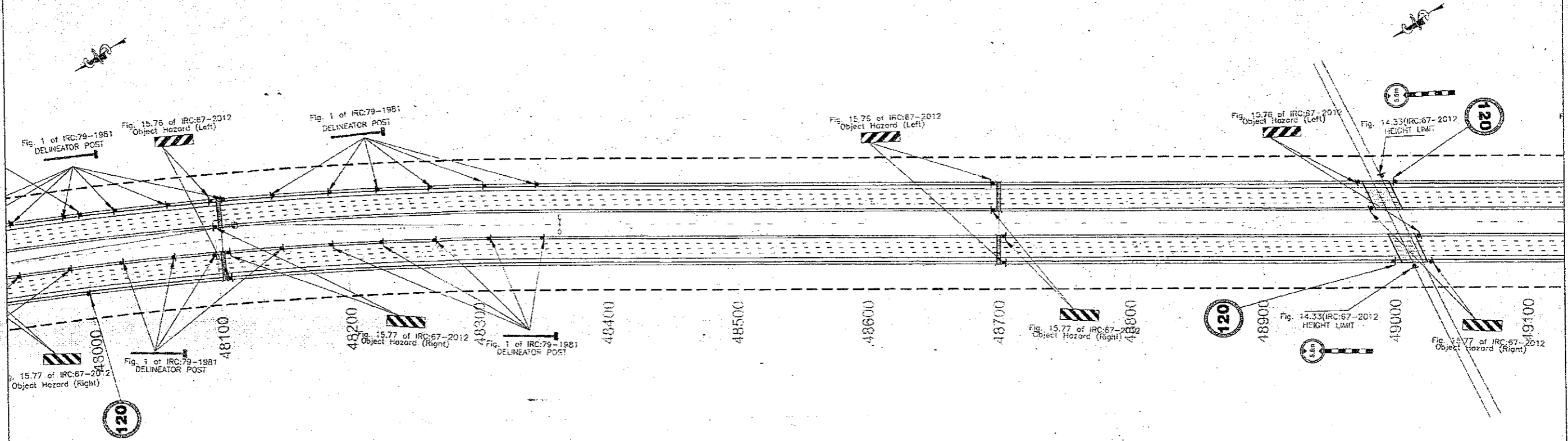
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115

<p>CLIENT:-  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)</p>	<p>CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 47:000 To KM. 48:000)</p>	<p>DRAWING No :- CPC/P-152/BM/EXP./FR/RS&MP/01</p> <table border="1"> <tr> <td>DATE : SEPTEMBER 2018</td> <td>Revision: R1</td> </tr> <tr> <td>PREPARED BY: R.K.JALANDRA</td> <td>DESIGNED BY: SANTOSH</td> </tr> <tr> <td>CHECKED BY: DHARAMVIR</td> <td>APPROVED BY: S.K.SINHA</td> </tr> </table>	DATE : SEPTEMBER 2018	Revision: R1	PREPARED BY: R.K.JALANDRA	DESIGNED BY: SANTOSH	CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA
DATE : SEPTEMBER 2018	Revision: R1										
PREPARED BY: R.K.JALANDRA	DESIGNED BY: SANTOSH										
CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA										



TO FIROZPUR JHIRKA →

← TO SOHNA



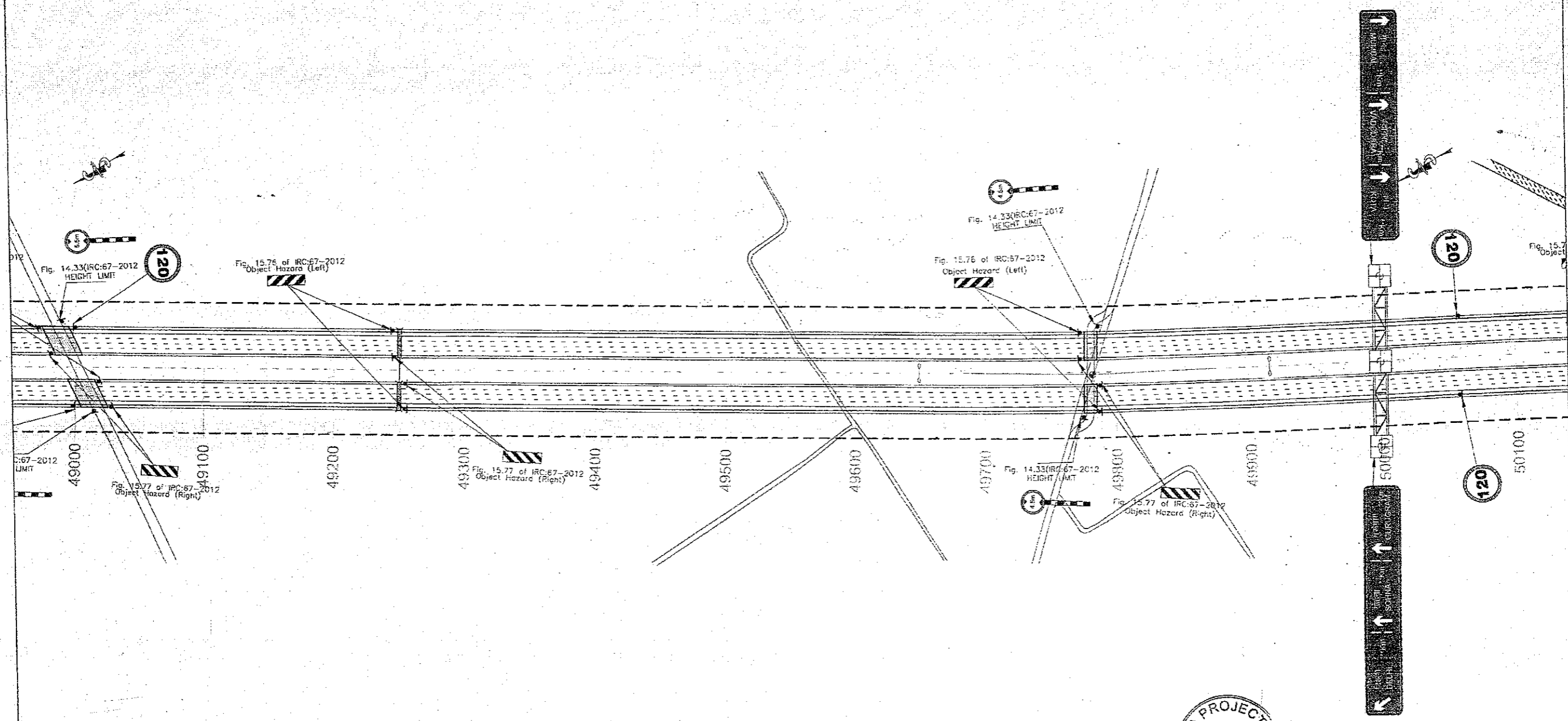
Signature

116

<p>CLIENT:-  National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small></p>	<p>CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) <small>(KM. 48+000 To KM. 49+000)</small></p>	<p>DRAWING No :- CPC/P-152/BM/EXP.JFR/RS&MP/ 02</p> <table border="1"> <tr> <td>DATE : SEPTEMBER 2018</td> <td>REVISION: R1</td> </tr> <tr> <td>PREPARED BY: R.K.JALANDRA</td> <td>DESIGNED BY: SANTOSH</td> </tr> <tr> <td>CHECKED BY: DHARAMVIR</td> <td>APPROVED BY: S.K.SINHA</td> </tr> </table>	DATE : SEPTEMBER 2018	REVISION: R1	PREPARED BY: R.K.JALANDRA	DESIGNED BY: SANTOSH	CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA
DATE : SEPTEMBER 2018	REVISION: R1										
PREPARED BY: R.K.JALANDRA	DESIGNED BY: SANTOSH										
CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA										

TO FIROZPUR JHIRKA →

← TO SOHNA

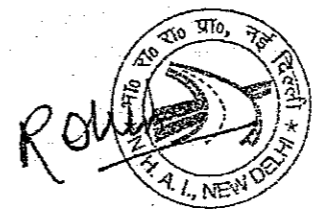
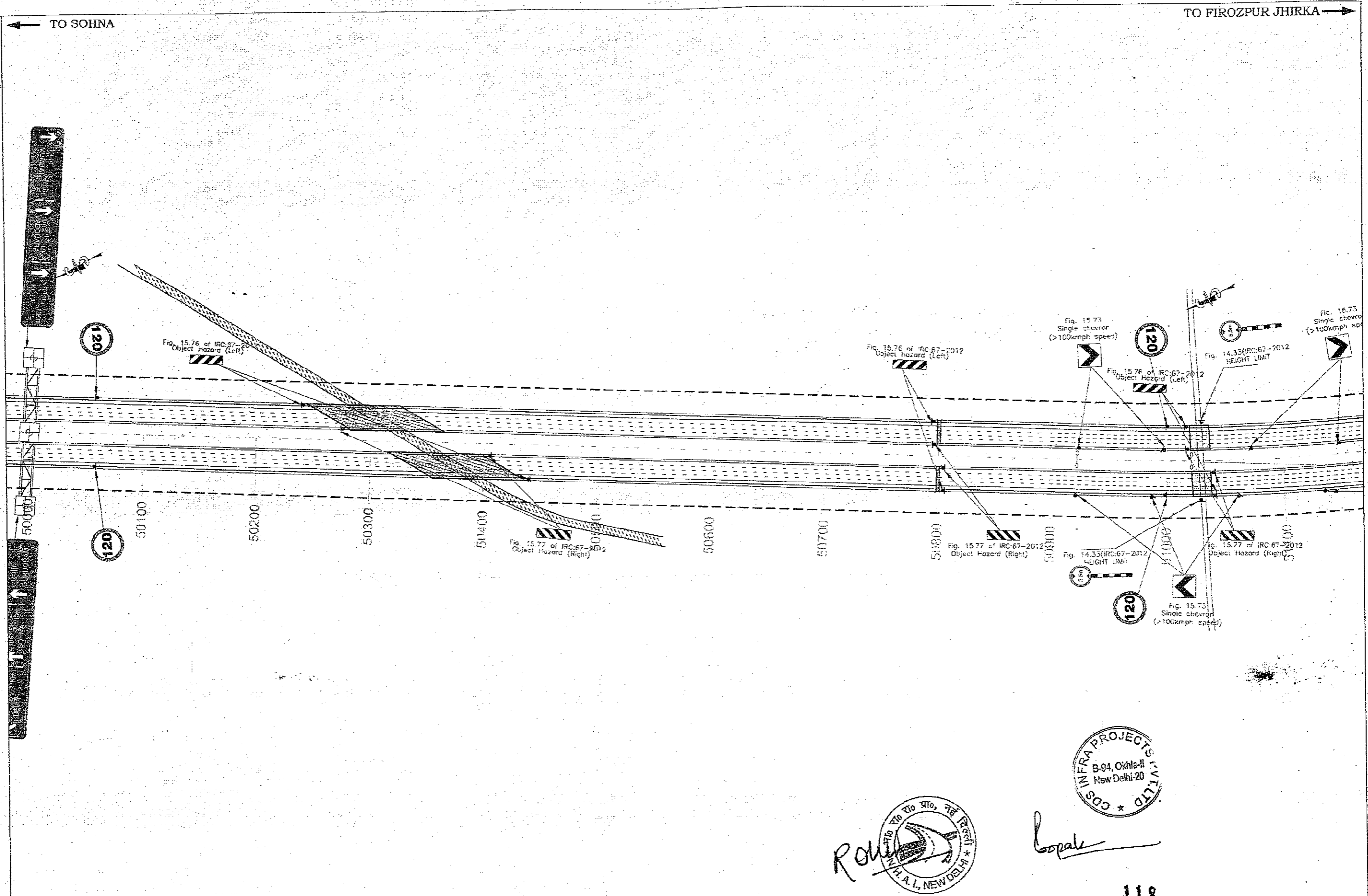


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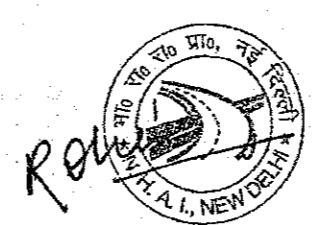
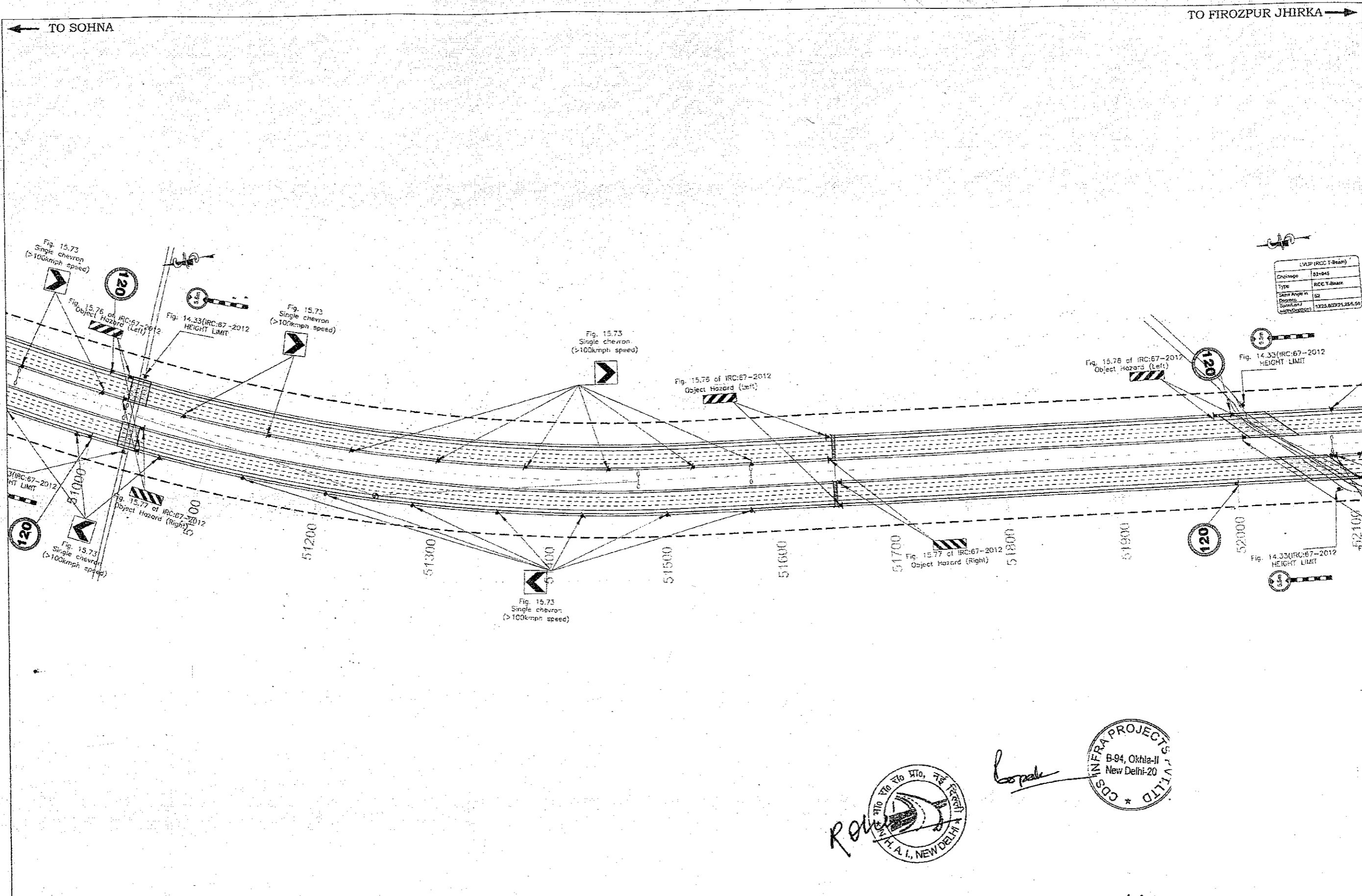
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<p>CLIENT:- National Highways Authority of India Ministry of Road, Transport & Highways, Govt. of India</p>	<p>CONSULTANT:- Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.-21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatnala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE:- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN {SOHNA - FIROZPUR JHIRKA} {KM. 49+000 To KM. 50+000}</p>	<p>DRAWING No :- CPC/P-152/BW/EXP./FR/RS&MP/03</p> <table border="1"> <tr> <td>DATE: SEPTEMBER 2018</td> <td>Revision: R1</td> </tr> <tr> <td>PREPARED BY: K.K.JALANDRA</td> <td>DESIGNED BY: SANTOSH</td> </tr> <tr> <td>CHECKED BY: DHARANVIR</td> <td>APPROVED BY: S.K.SINHA</td> </tr> </table>	DATE: SEPTEMBER 2018	Revision: R1	PREPARED BY: K.K.JALANDRA	DESIGNED BY: SANTOSH	CHECKED BY: DHARANVIR	APPROVED BY: S.K.SINHA
DATE: SEPTEMBER 2018	Revision: R1										
PREPARED BY: K.K.JALANDRA	DESIGNED BY: SANTOSH										
CHECKED BY: DHARANVIR	APPROVED BY: S.K.SINHA										





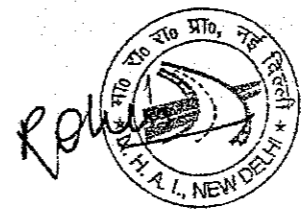
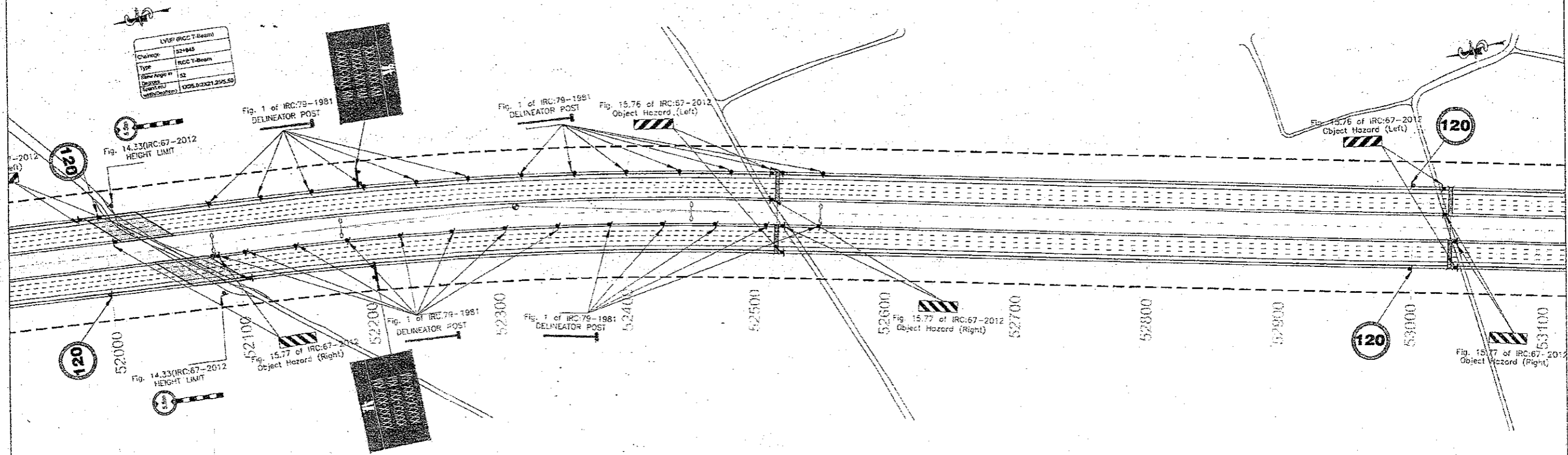
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<p>CLIENT:-  National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small></p>	<p>CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 50+000 To KM. 51+000)</p>	<p>DRAWING No :- CPC/P-152/BM/EXP./FR/RS&MP/ 04</p> <table border="1"> <tr> <td>DATE : SEPTEMBER 2018</td> <td>Revision: - RI</td> </tr> <tr> <td>PREPARED BY R.K.JALANURA</td> <td>DESIGNED BY SANTOSH</td> </tr> <tr> <td>CHECKED BY DHARAMVIR</td> <td>APPROVED BY S.K.SINHA</td> </tr> </table>	DATE : SEPTEMBER 2018	Revision: - RI	PREPARED BY R.K.JALANURA	DESIGNED BY SANTOSH	CHECKED BY DHARAMVIR	APPROVED BY S.K.SINHA
DATE : SEPTEMBER 2018	Revision: - RI										
PREPARED BY R.K.JALANURA	DESIGNED BY SANTOSH										
CHECKED BY DHARAMVIR	APPROVED BY S.K.SINHA										





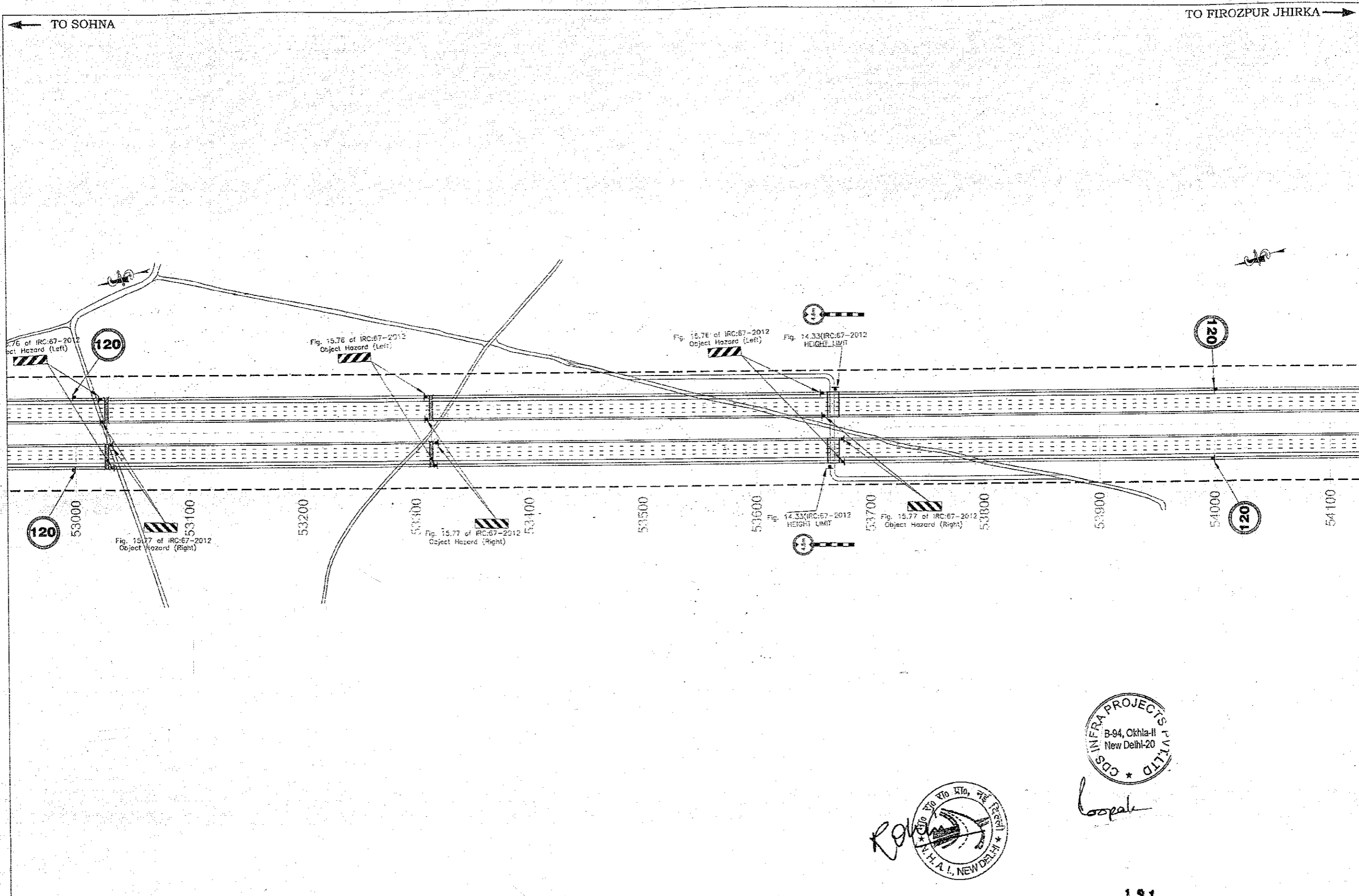
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<p>CLIENT:-  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)</p>	<p>CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 51+000 To KM. 52+000)</p>	<p>DRAWING No :- CPCIP-152/BM/EXP/JFR/RS&MP/05 DATE : SEPTEMBER 2018 PREPARED BY : R.K. JALANDRA DESIGNED BY : SANTOSH CHECKED BY : DHARAMVIR APPROVED BY : S.K. SINHA Revision: RI</p>
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120

<p>CLIENT:-</p>  <p>National Highways Authority of India Ministry of Road, Transport & Highways, Govt. of India</p>	<p>CONSULTANT:-</p>  <p>Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K. TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:-</p> <p>Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :-</p> <p>H=1:2000</p>	<p>DWG TITLE:-</p> <p>PKG-3 ROAD SIGNAGE & MARKING PLAN {SOHNA - FIROZPUR JHIRKA} {KM. 52-000 To KM. 53+000}</p>	<p>DRAWING No :-</p> <p>CPC/P-152/BM/EXP./FR/RS&MP/06</p> <table border="1"> <tr> <td>DATE : SEPTEMBER 2018</td> <td>Revision: R1</td> </tr> <tr> <td>PREPARED BY: R.K.JALANDRA</td> <td>DESIGNED BY: SANTOSH</td> </tr> <tr> <td>CHECKED BY: DHARAMVIR</td> <td>APPROVED BY: S.K.SINHA</td> </tr> </table>	DATE : SEPTEMBER 2018	Revision: R1	PREPARED BY: R.K.JALANDRA	DESIGNED BY: SANTOSH	CHECKED BY: DHARAMVIR	APPROVED BY: S.K.SINHA
DATE : SEPTEMBER 2018	Revision: R1										
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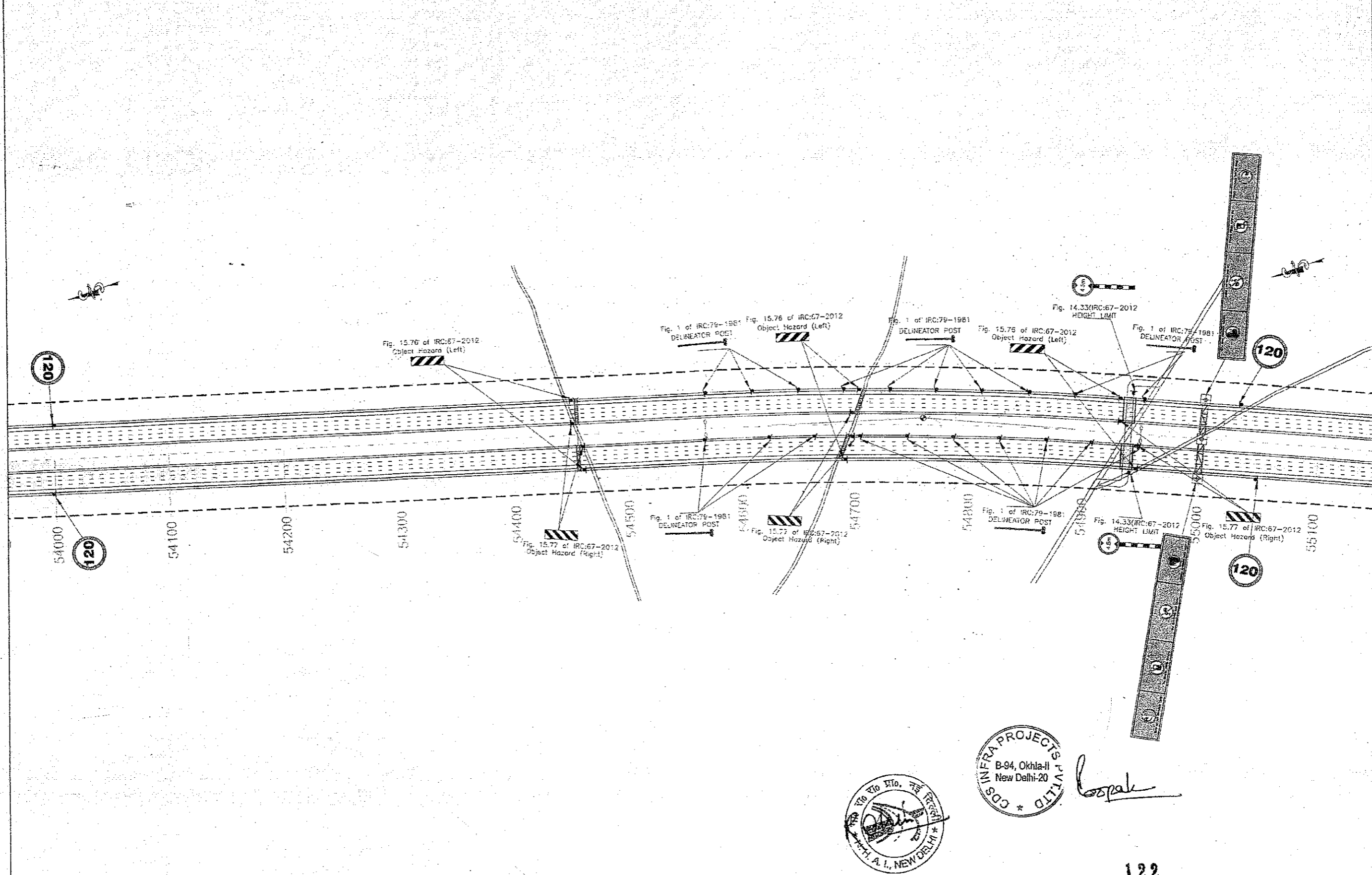


121

CLIENT:-  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)	CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH: 0126-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)	SCALE :- H=1:2000	DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 53+000 To KM. 54+000)	DRAWING No :- CPCIP-152/BM/EXP./FR/RS&MPI/07 DATE : SEPTEMBER 2018 Revisions: R1 <table border="1"> <tr> <td>PREPARED BY</td> <td>DESIGNED BY</td> <td>CHECKED BY</td> <td>APPROVED BY</td> </tr> <tr> <td>R.K.JALANDRA</td> <td>SANTOSH</td> <td>DIHARAMITR</td> <td>S.K.SINHA</td> </tr> </table>	PREPARED BY	DESIGNED BY	CHECKED BY	APPROVED BY	R.K.JALANDRA	SANTOSH	DIHARAMITR	S.K.SINHA
PREPARED BY	DESIGNED BY	CHECKED BY	APPROVED BY										
R.K.JALANDRA	SANTOSH	DIHARAMITR	S.K.SINHA										



← TO SOHNA

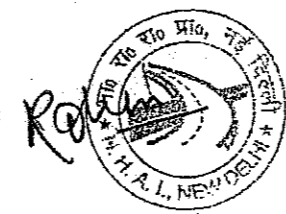
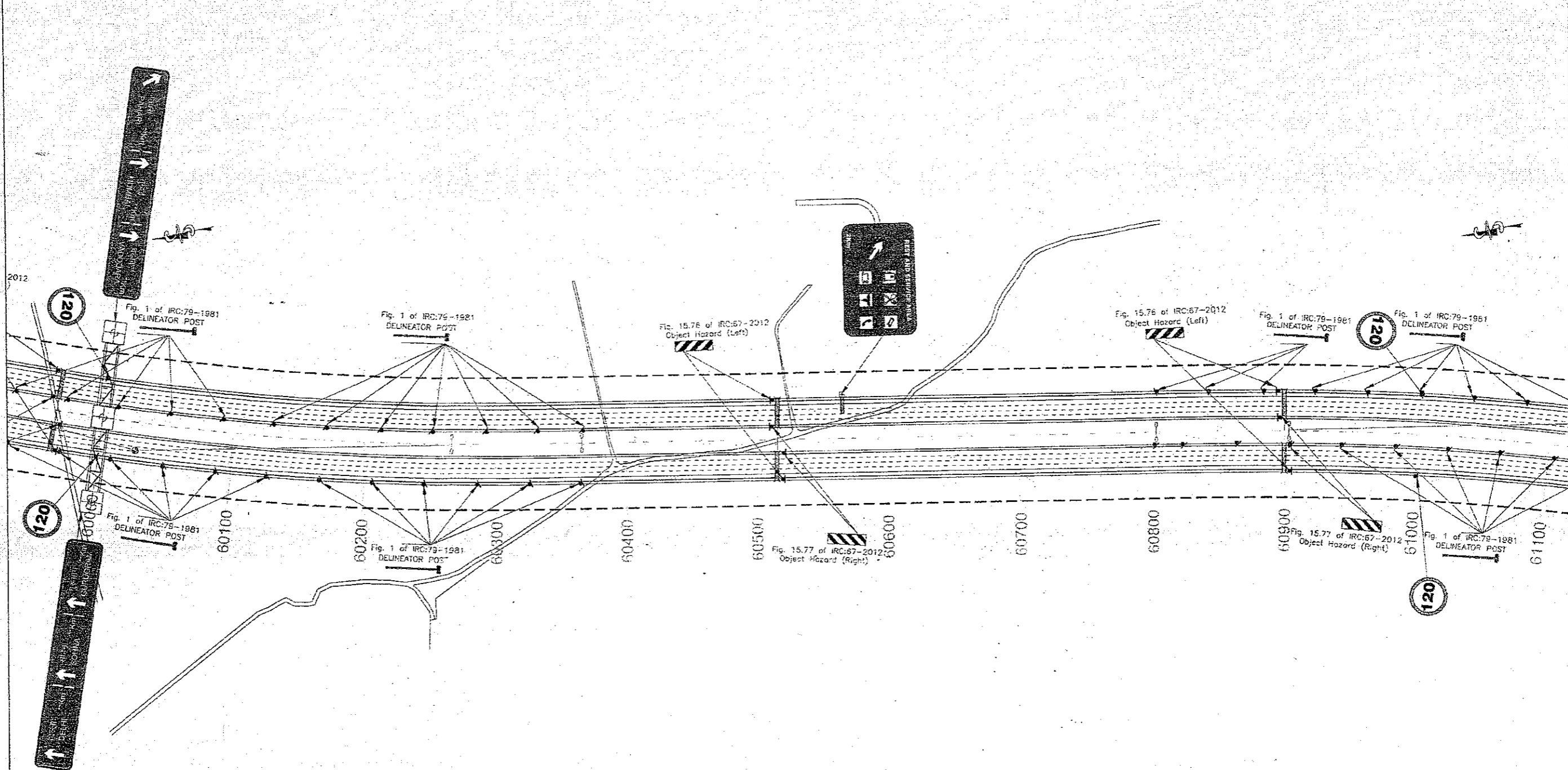
TO FIROZPUR JHIRKA →





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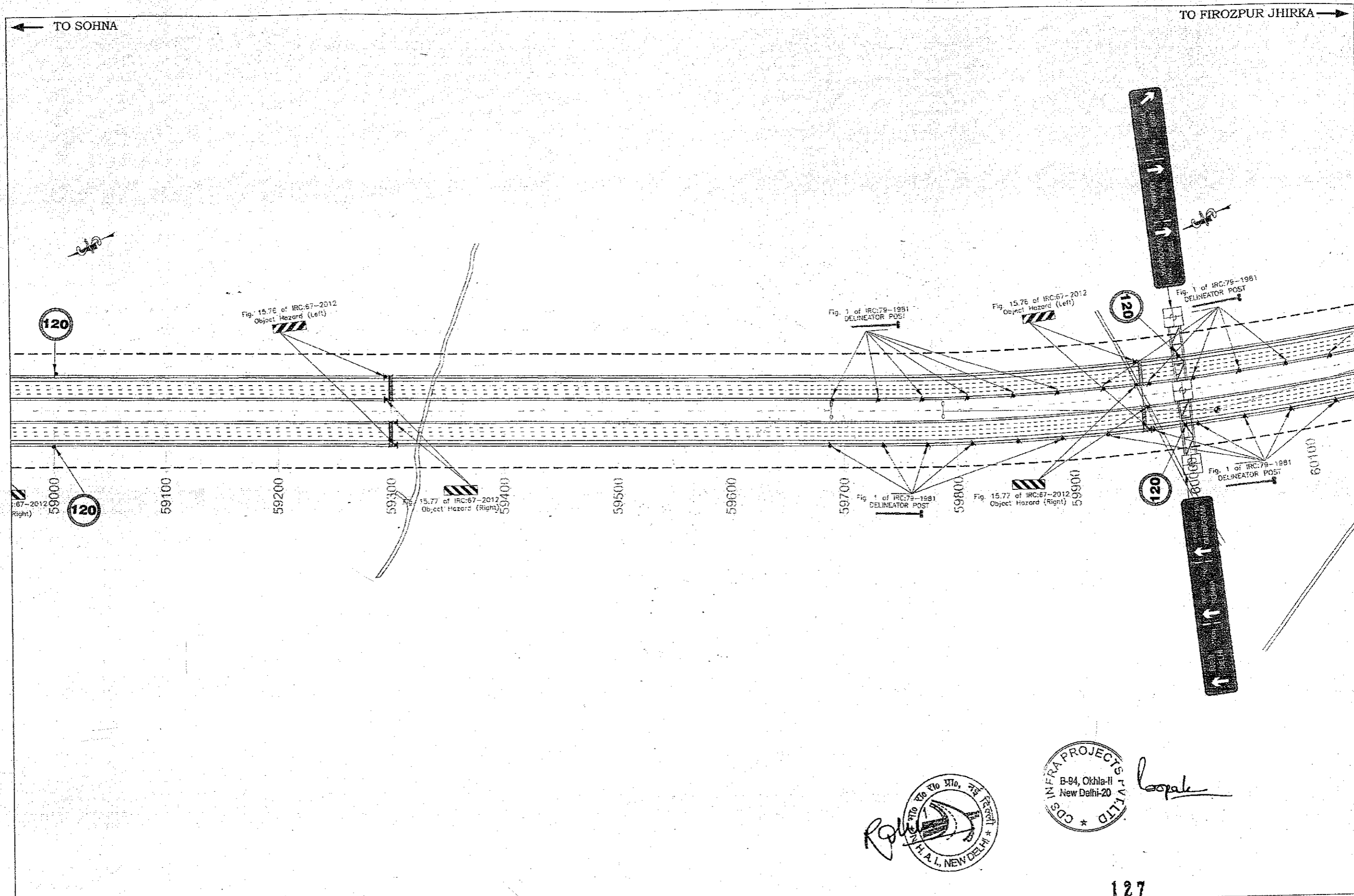
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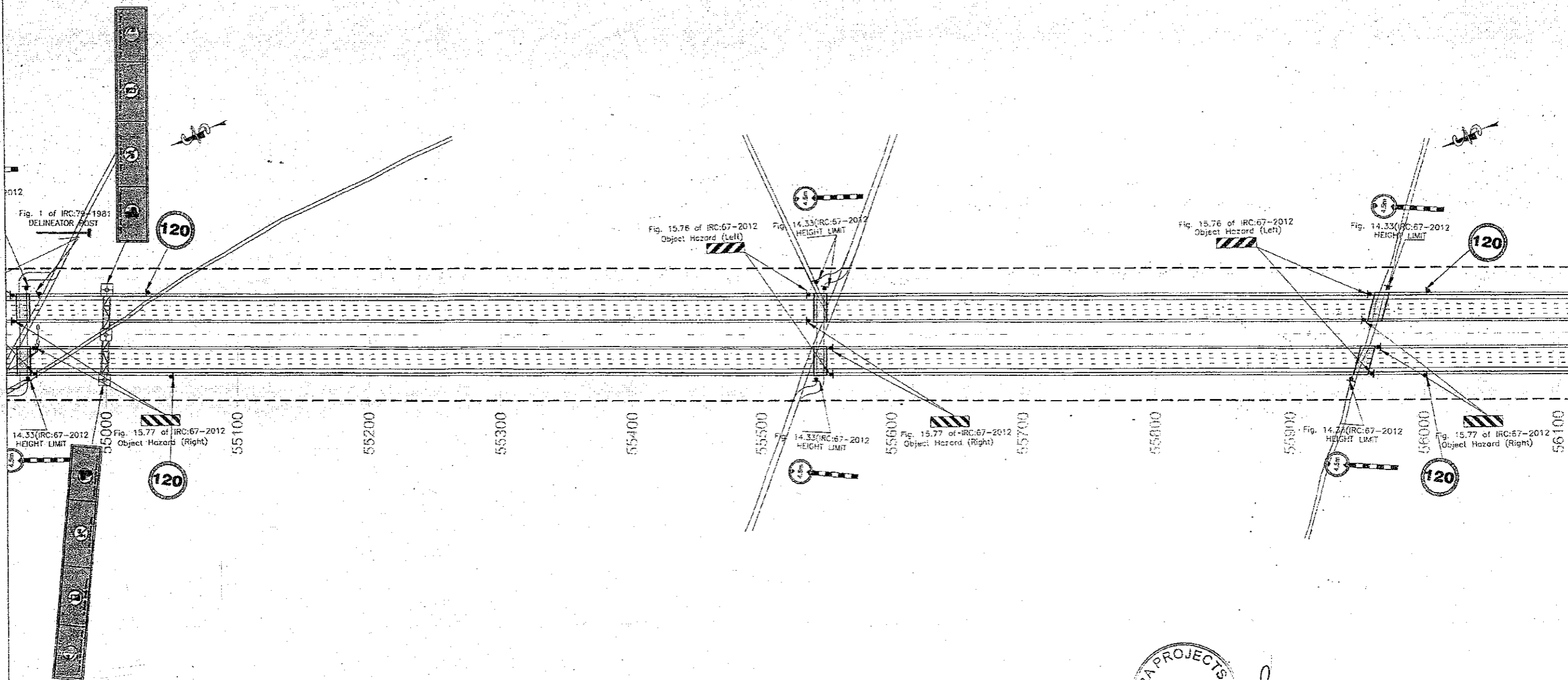







 R.K. IALANDRA

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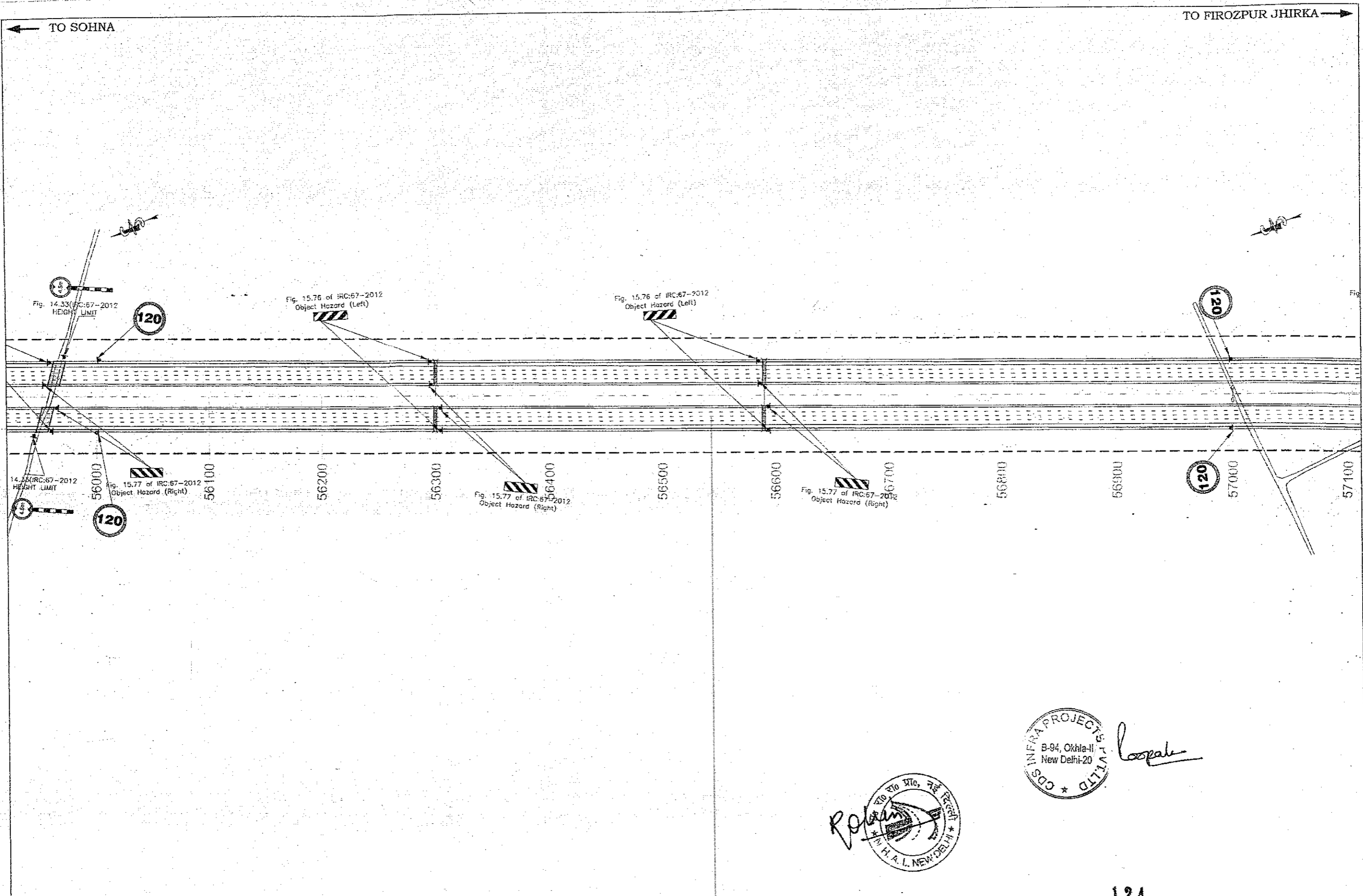


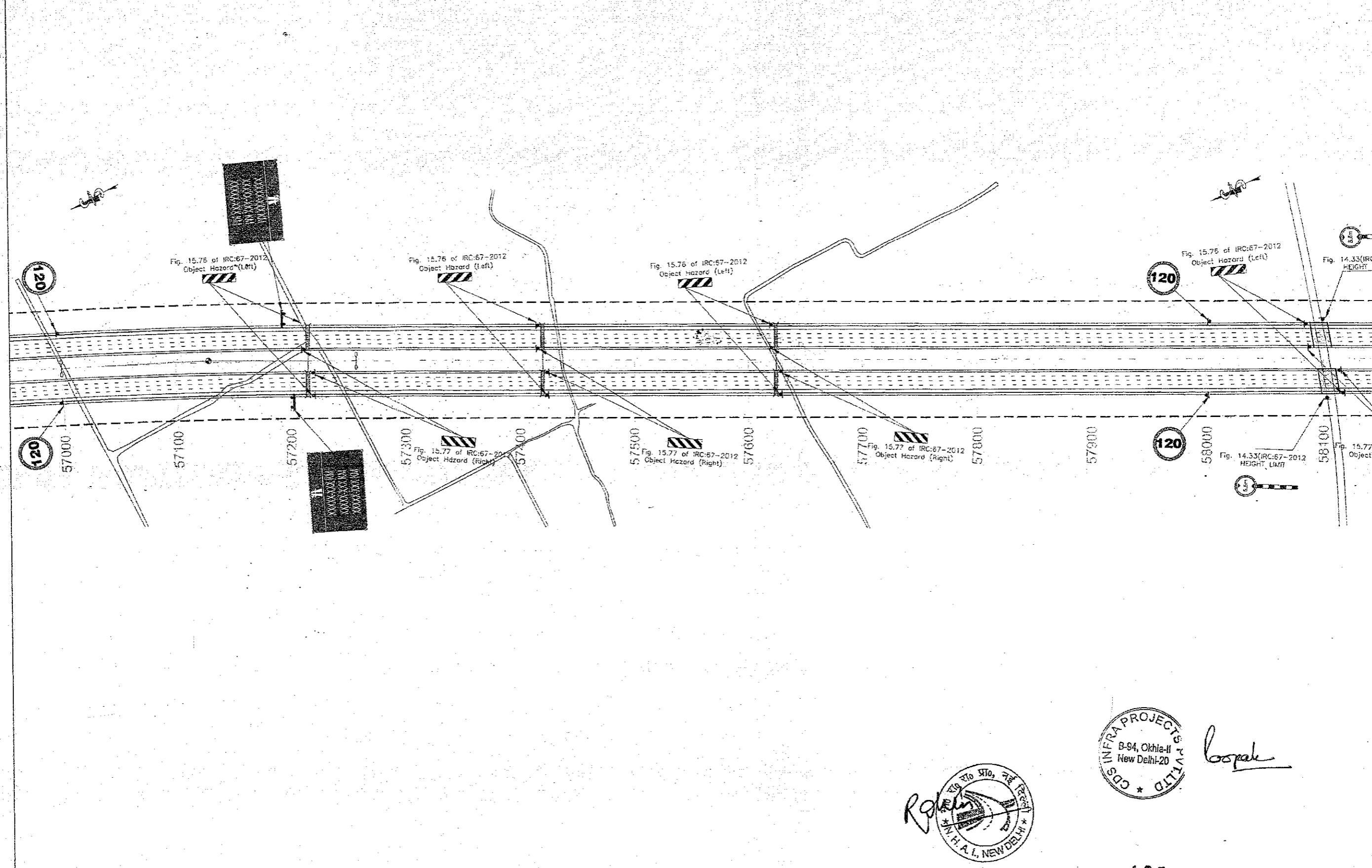



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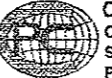
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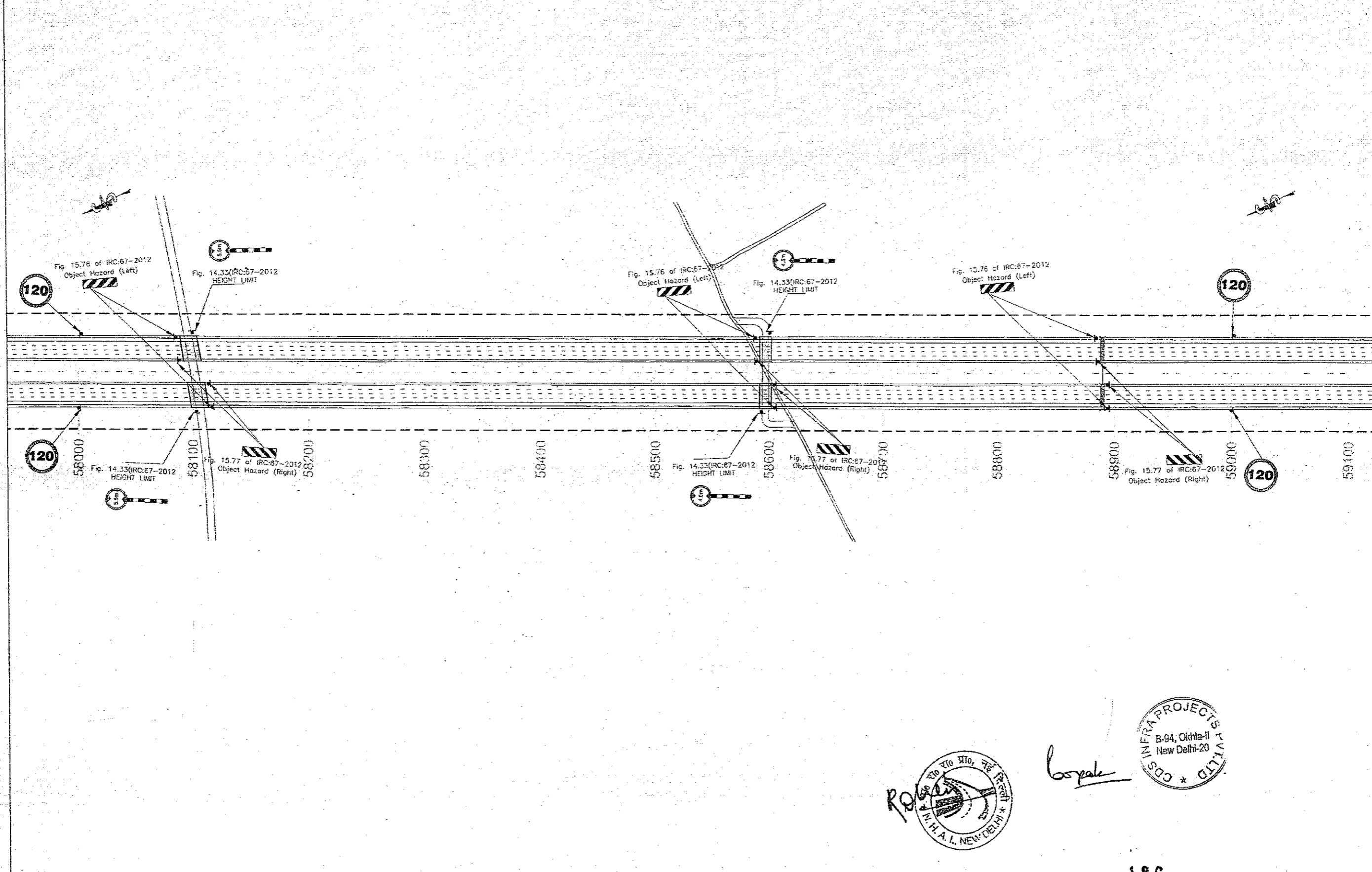
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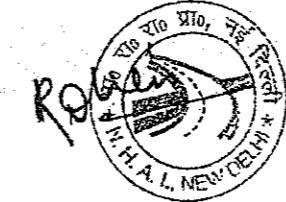
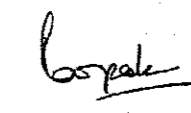








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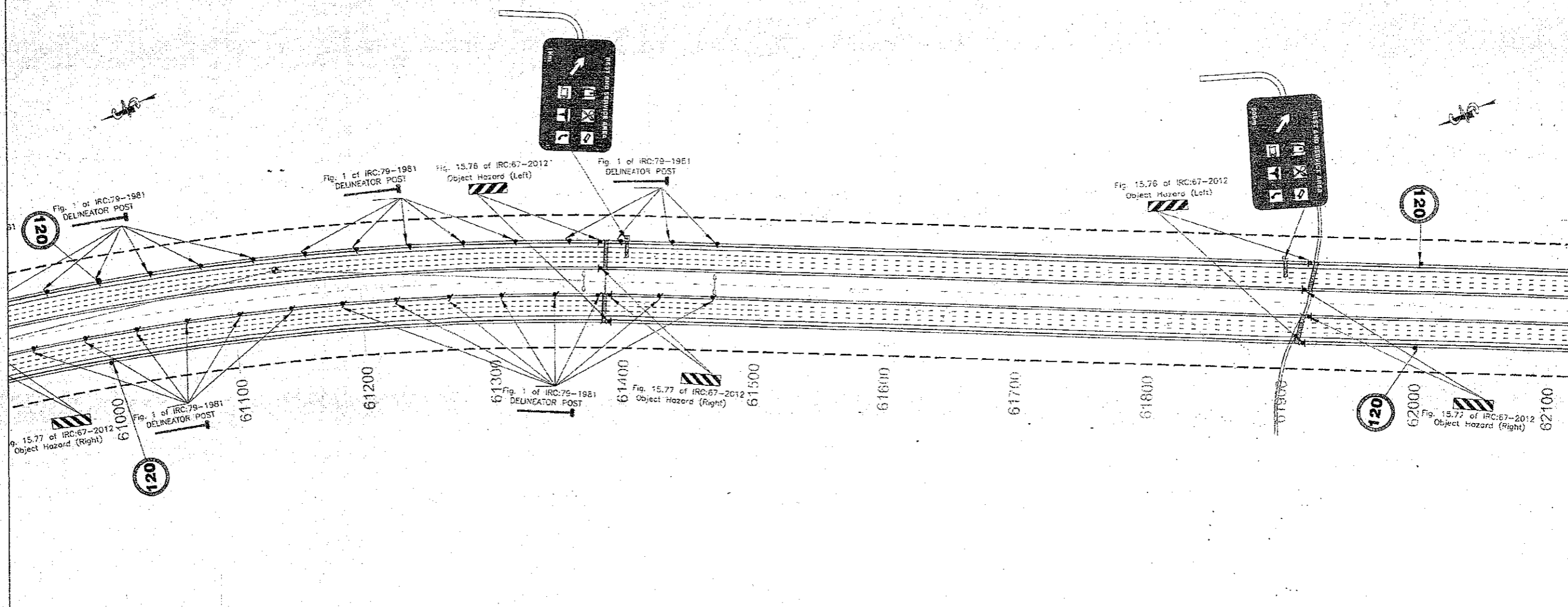
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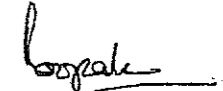









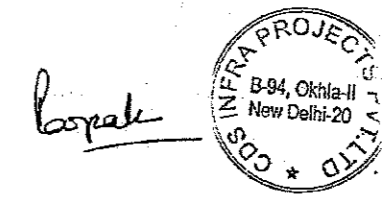
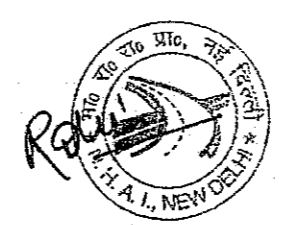
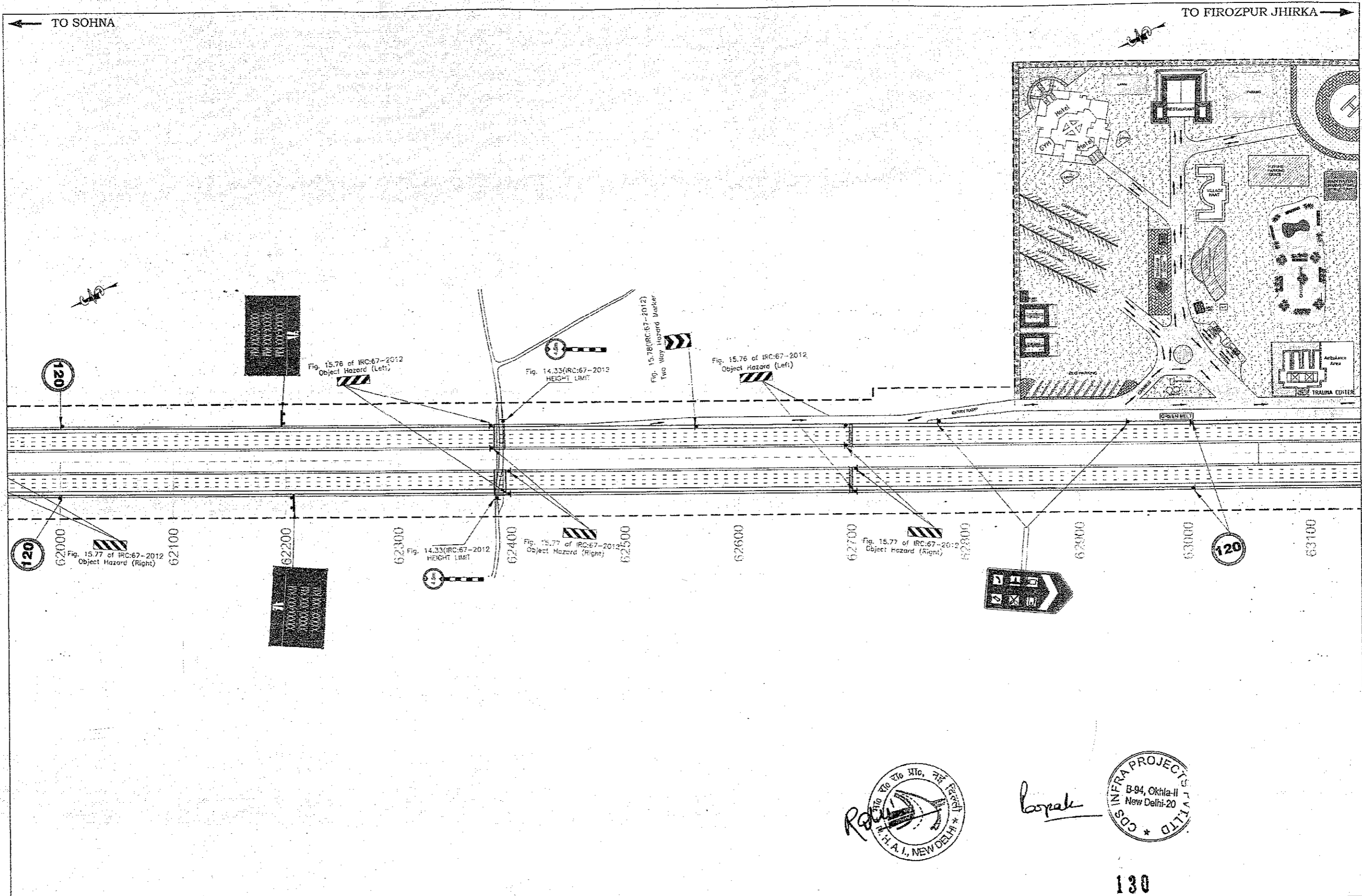
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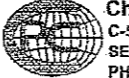


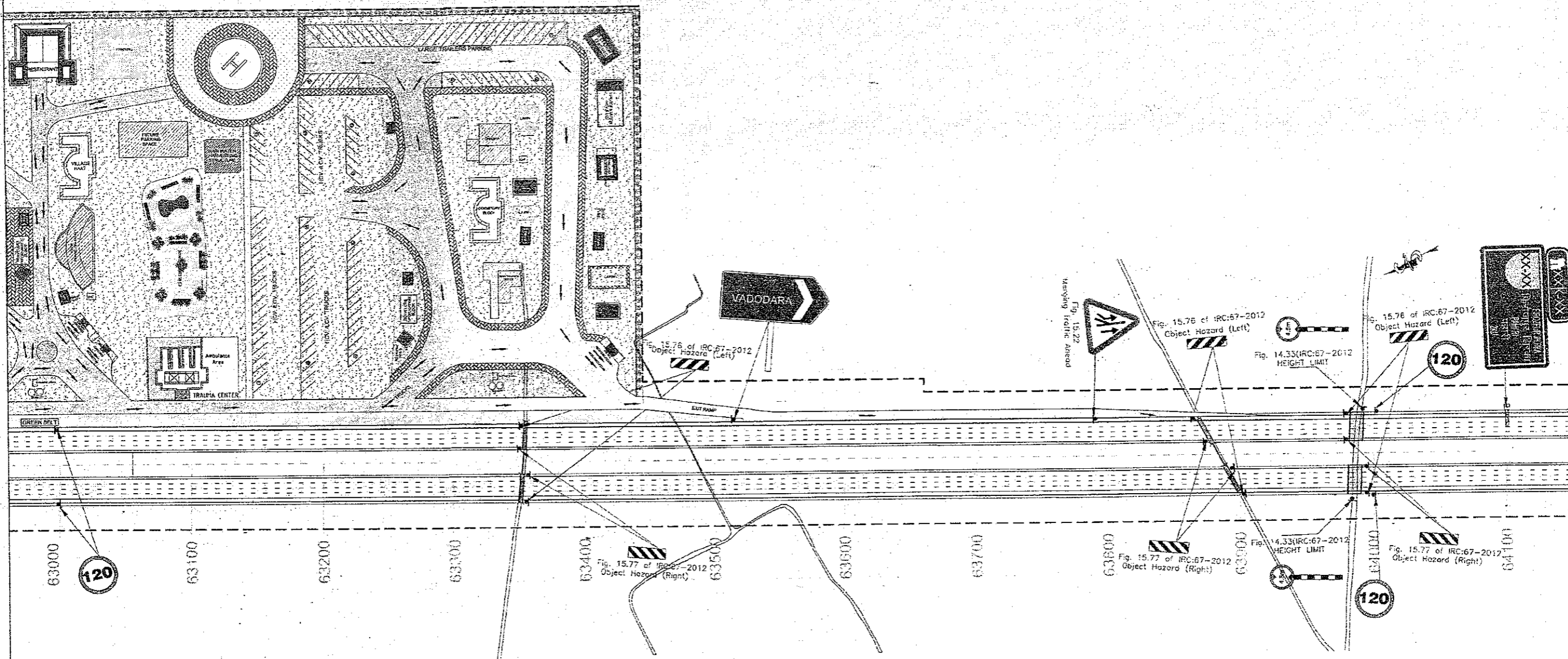







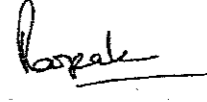
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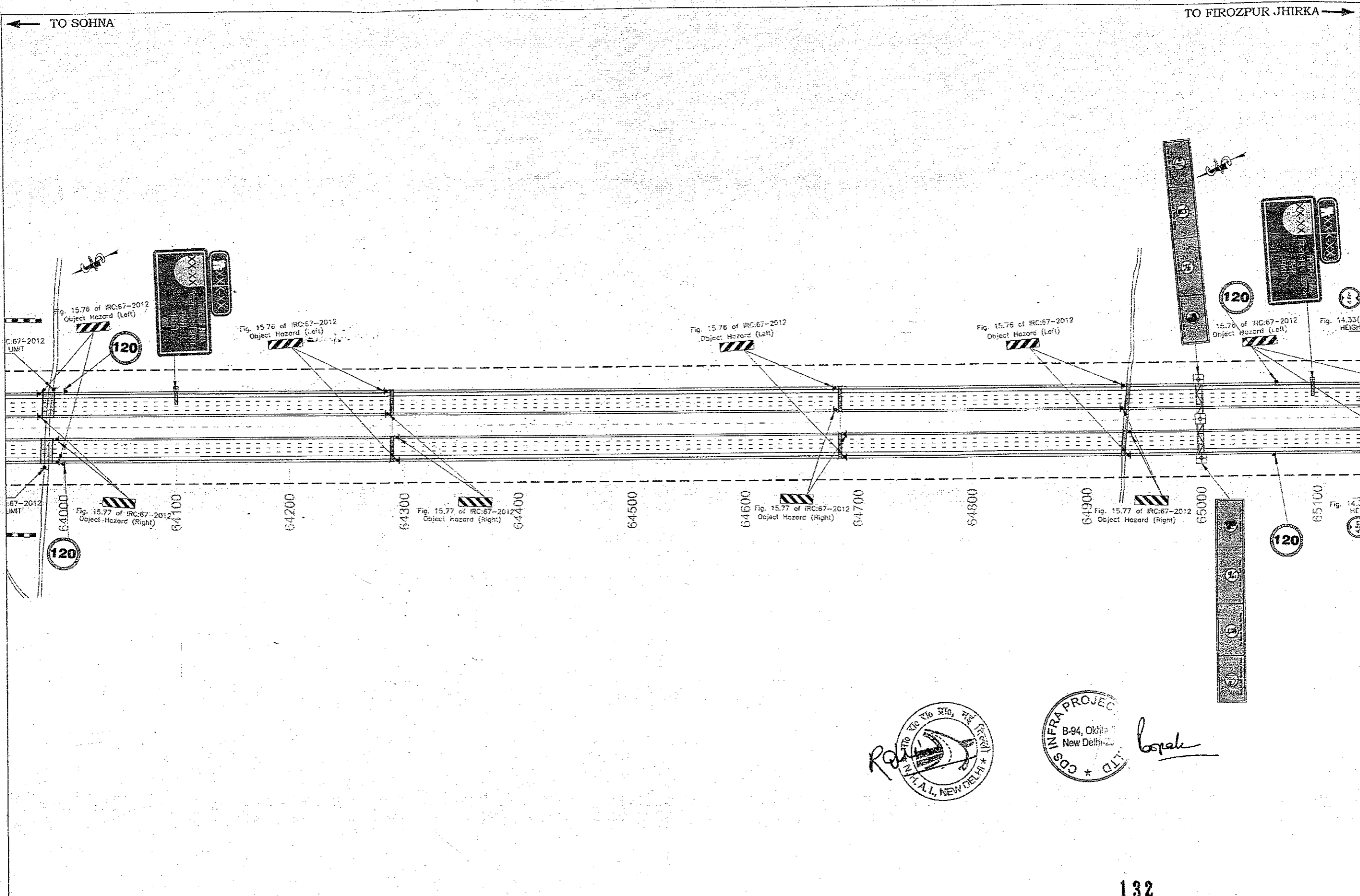
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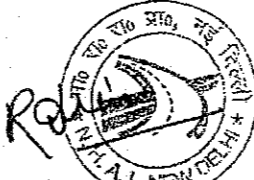

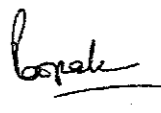
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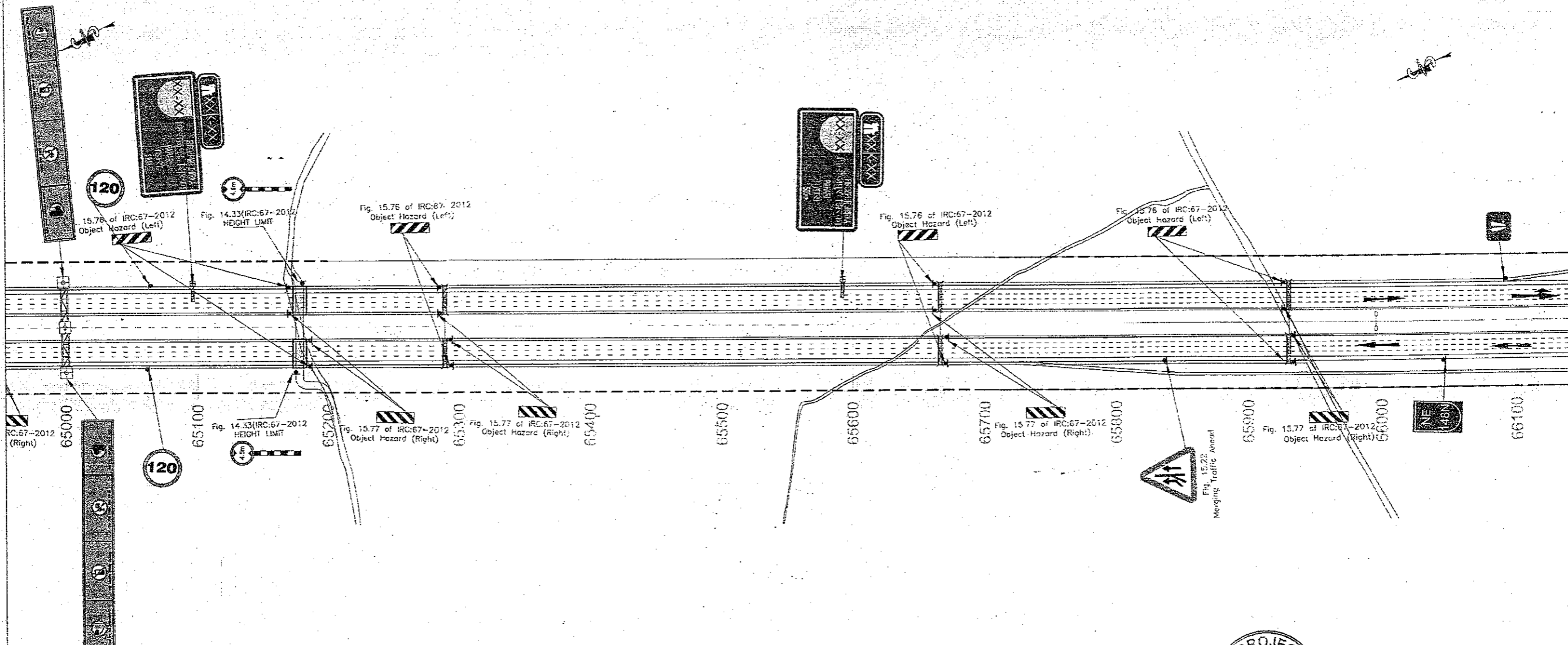
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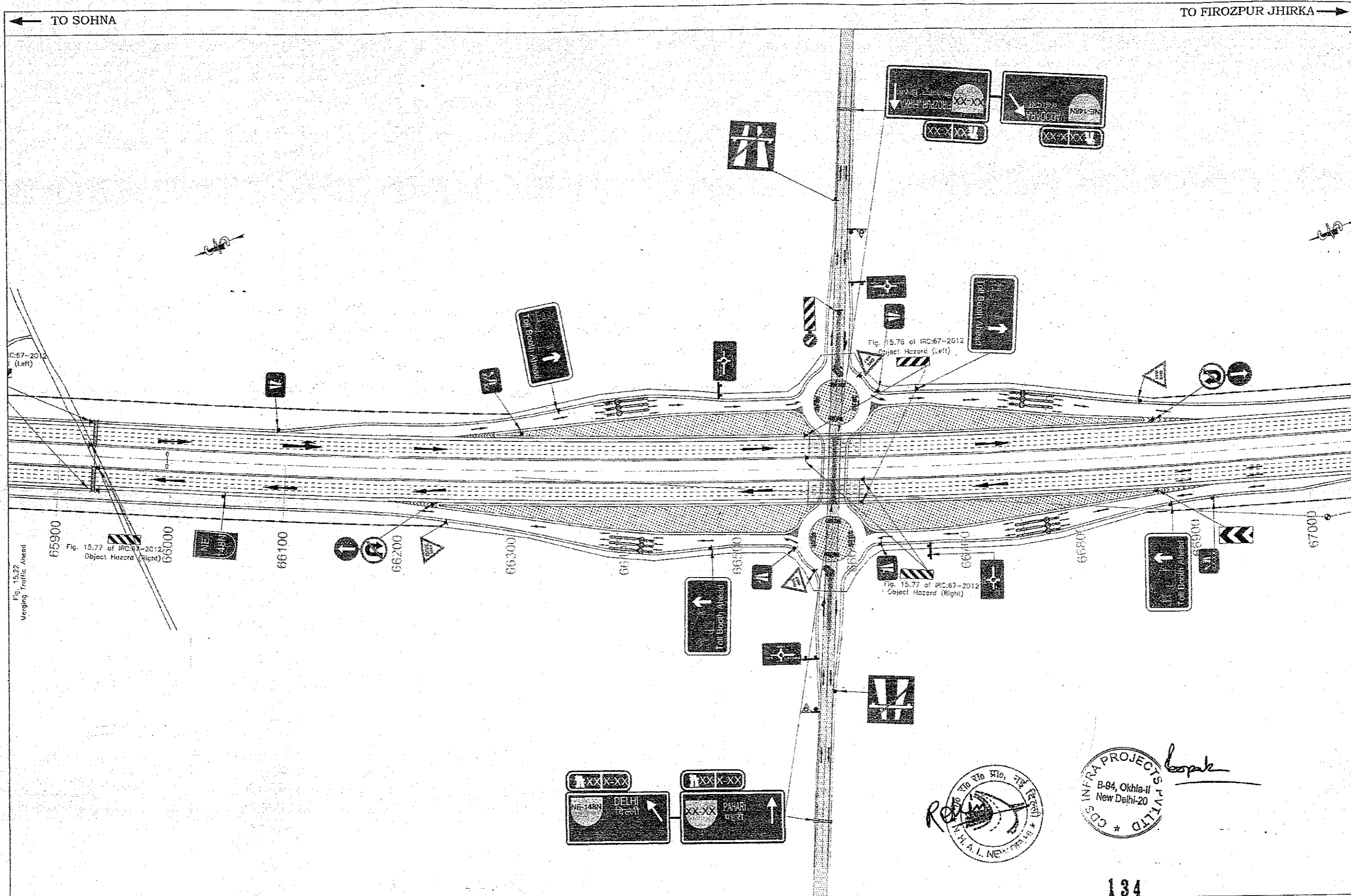
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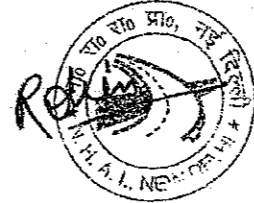
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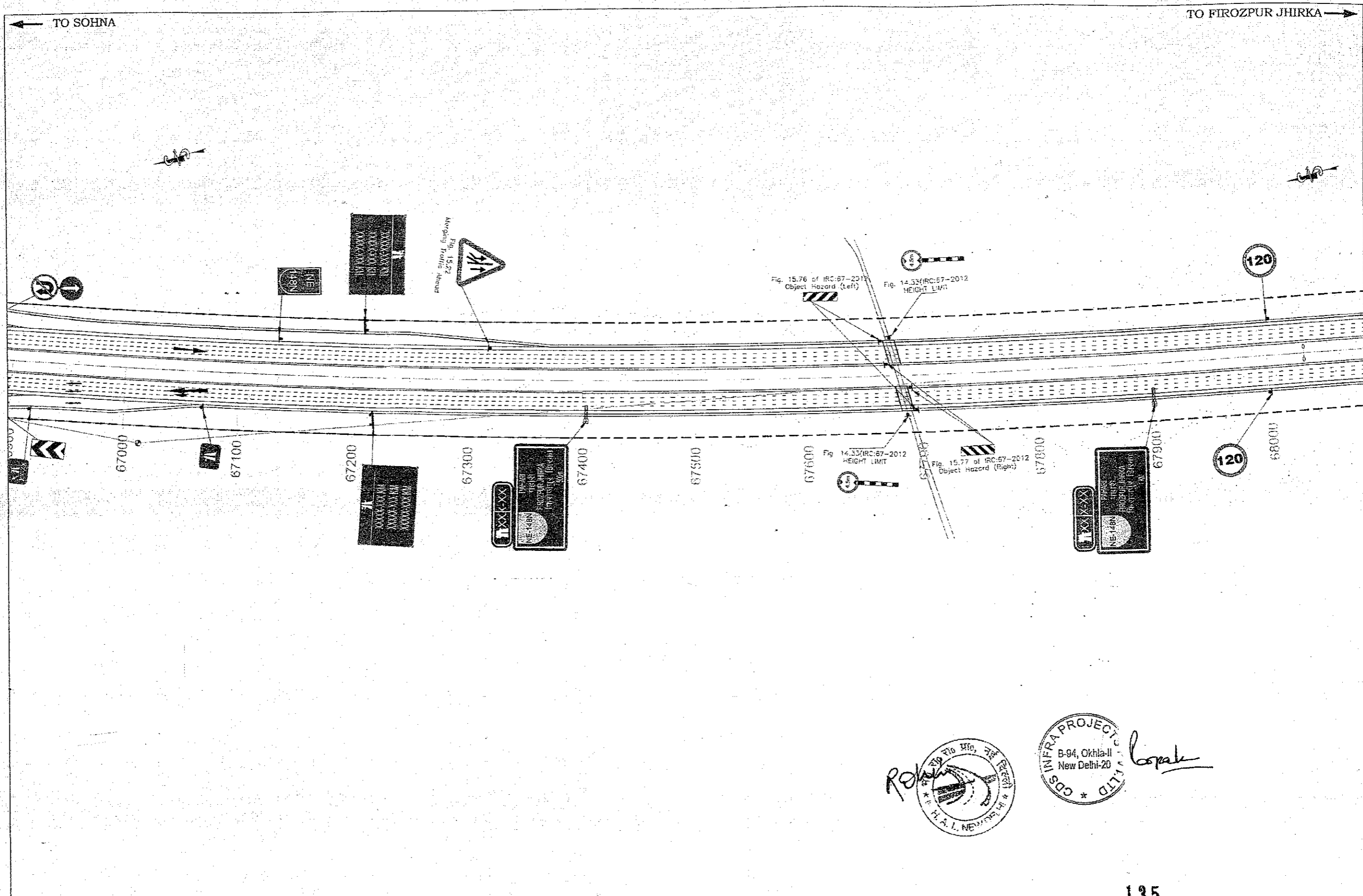
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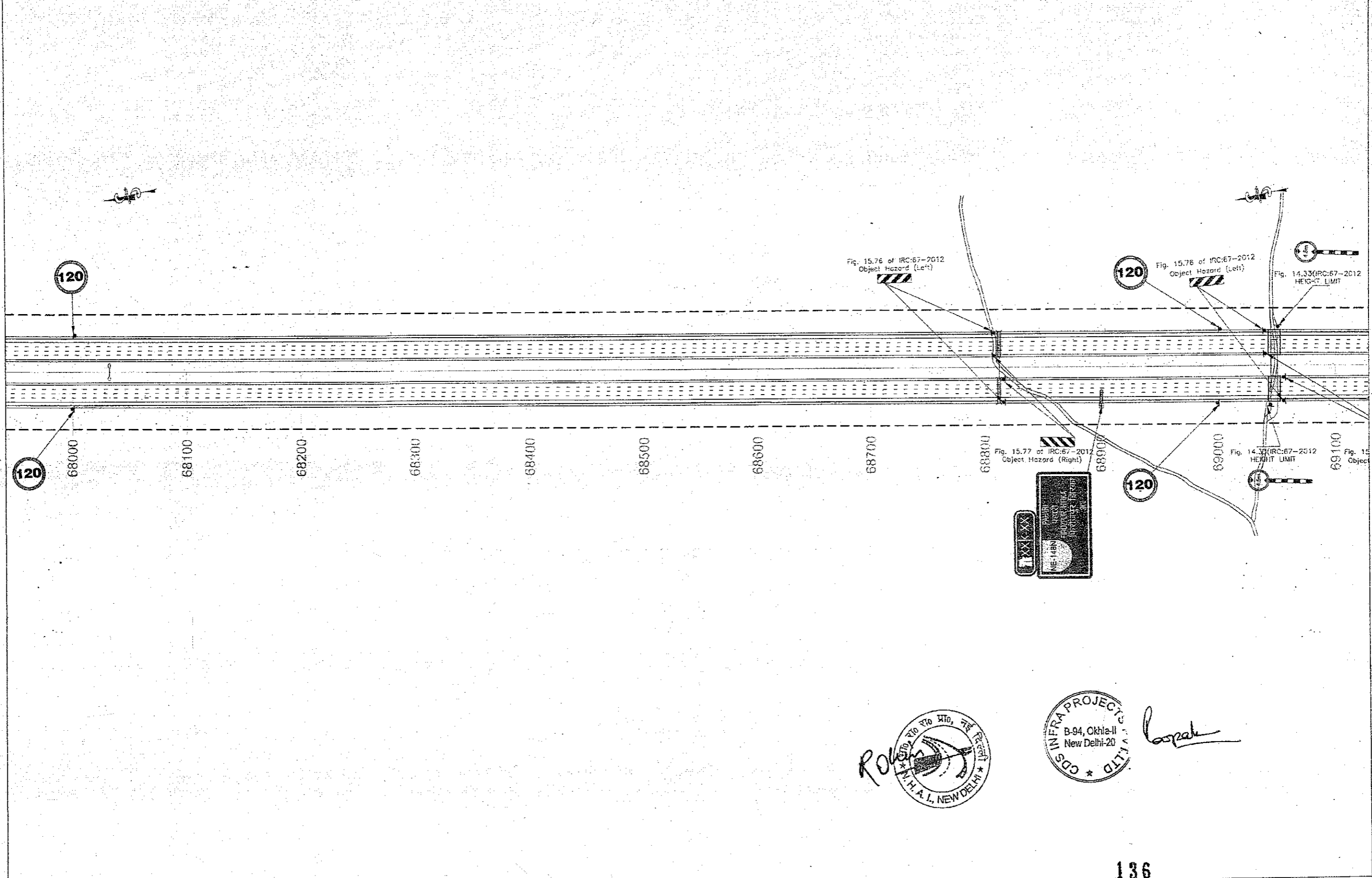


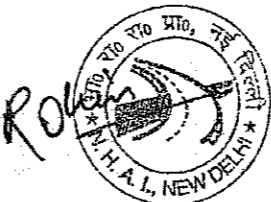




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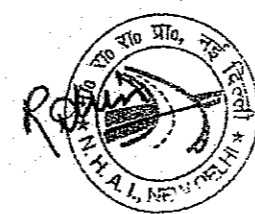
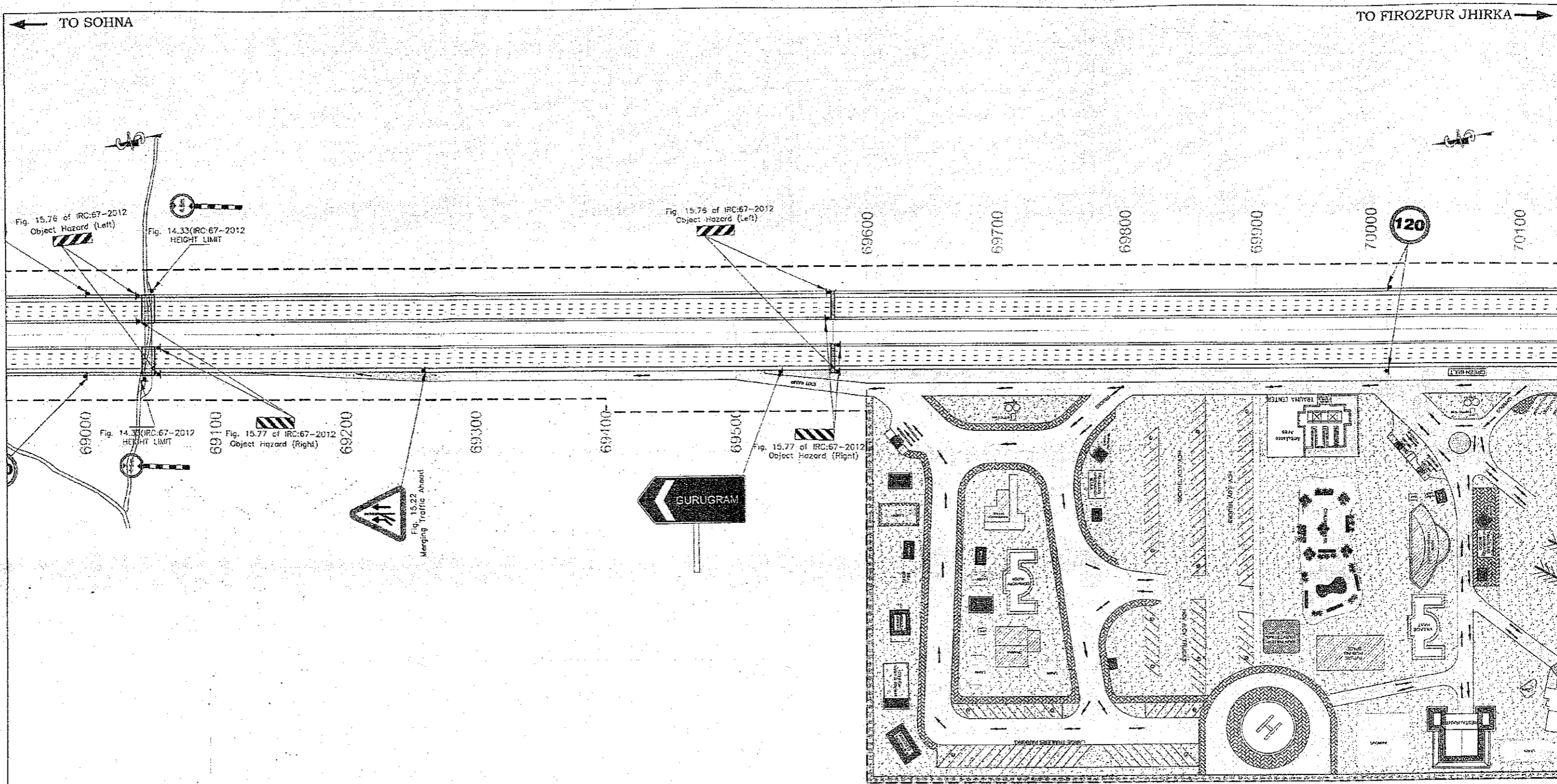


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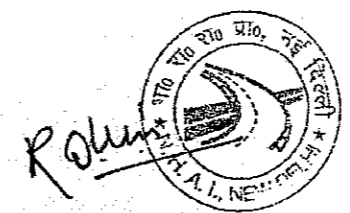
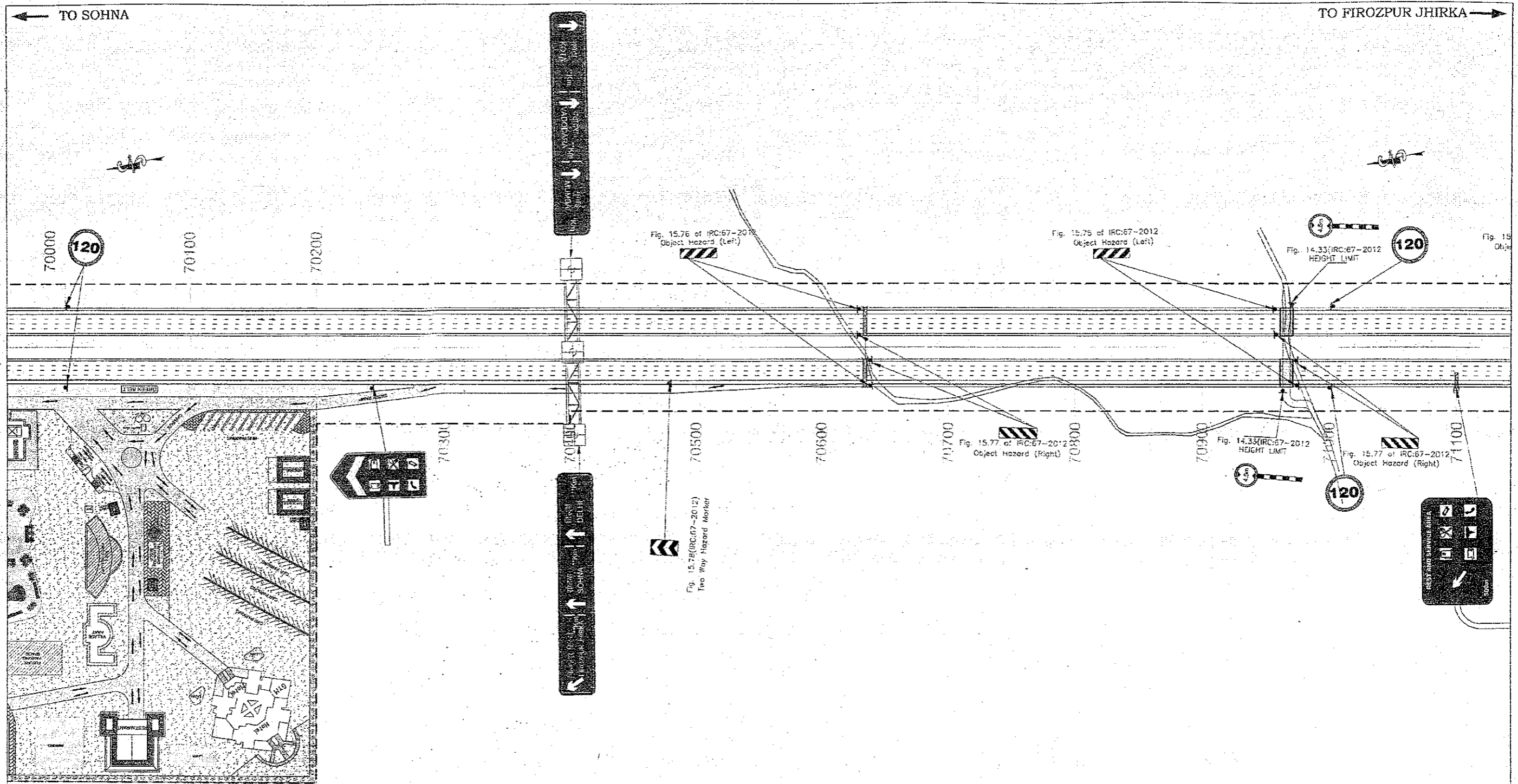
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KAJJALANUKA	SANTOSH	DHARANIVR	S.K.SNIELA										






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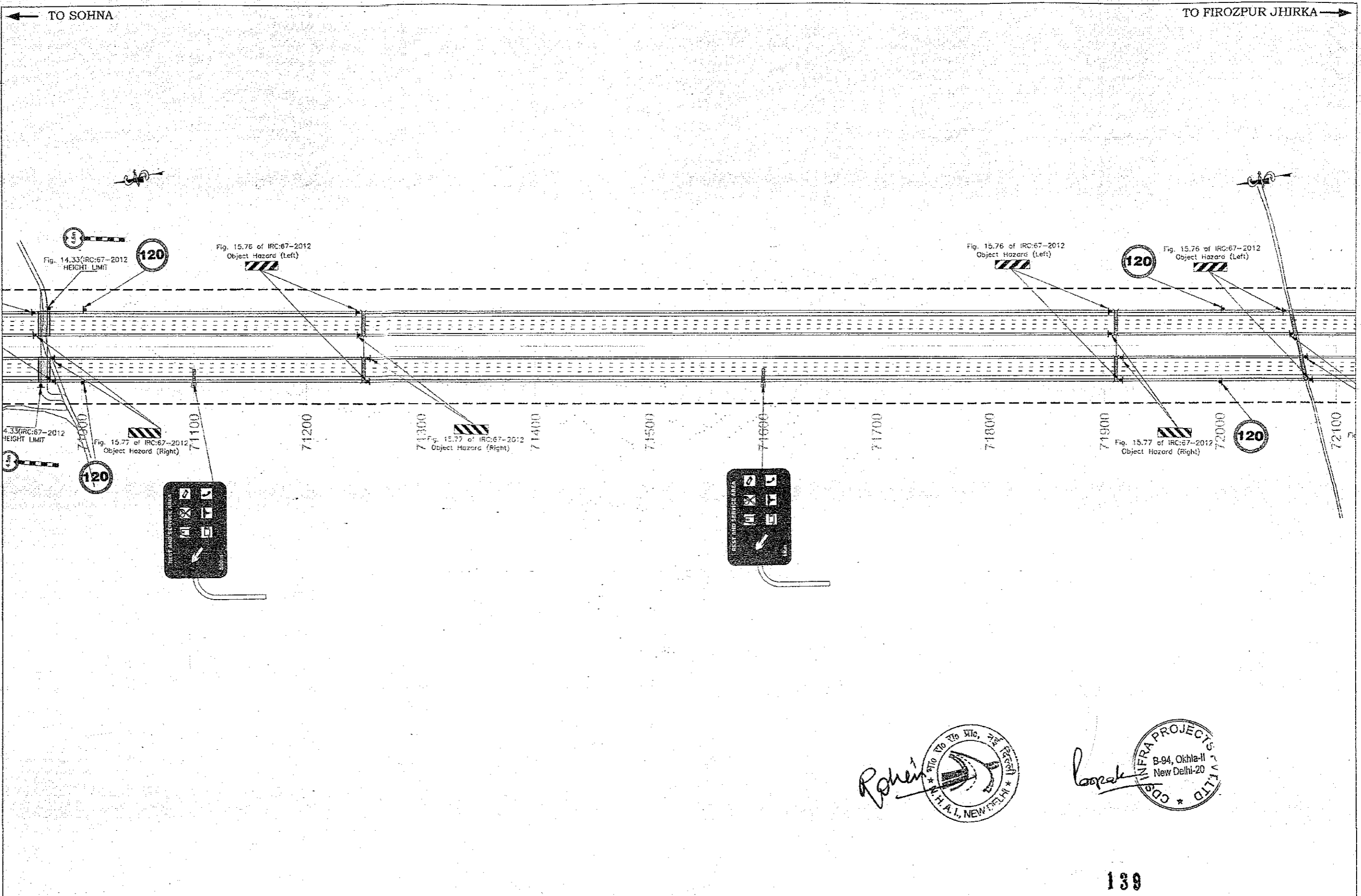
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CLIENT:-  National Highways Authority of India <small>(Ministry of Road, Transport & Highways, Govt. of India)</small>	CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472	PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)	SCALE :- H=1:2000	DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 69+000 To KM. 70+000)	DRAWING No :- CPCIP-152/BM/EXP./FR/RS&MP/ 23 DATE : SEPTEMBER 2018 PREPARED BY: K.K.JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DIKRAMVIR APPROVED BY: S.K.SINHA Revision: RI
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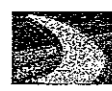

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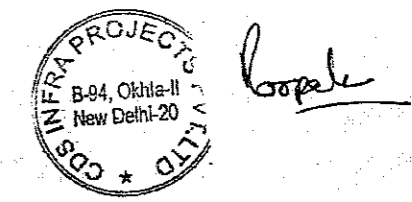
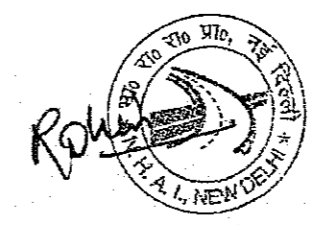
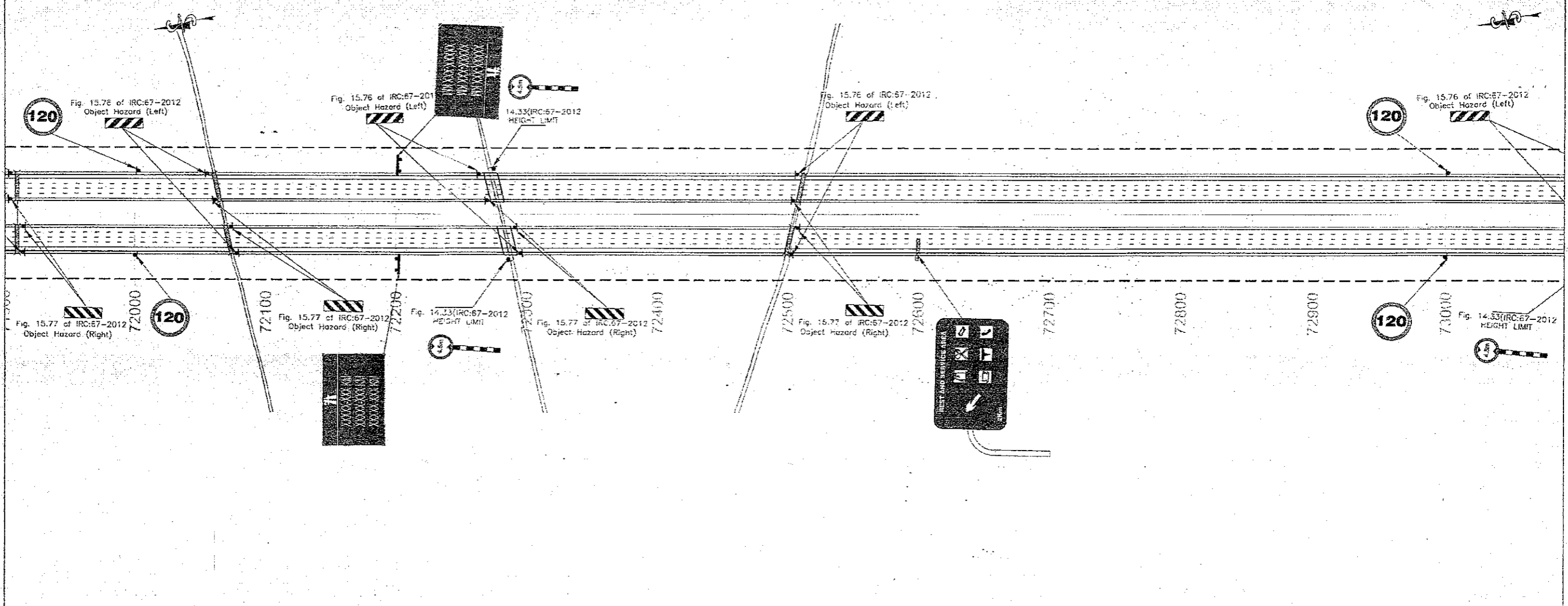


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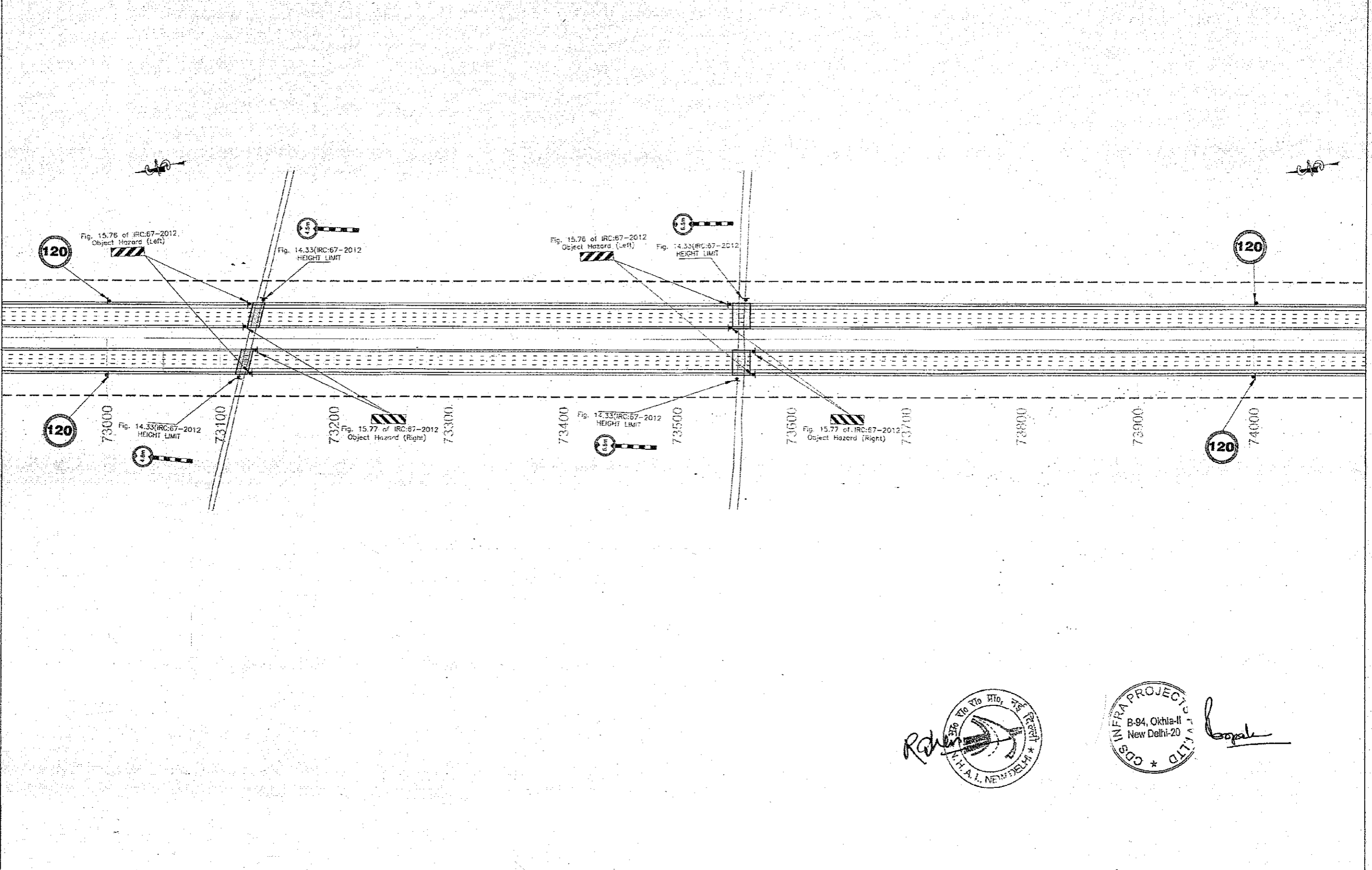
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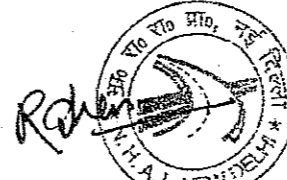

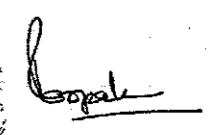
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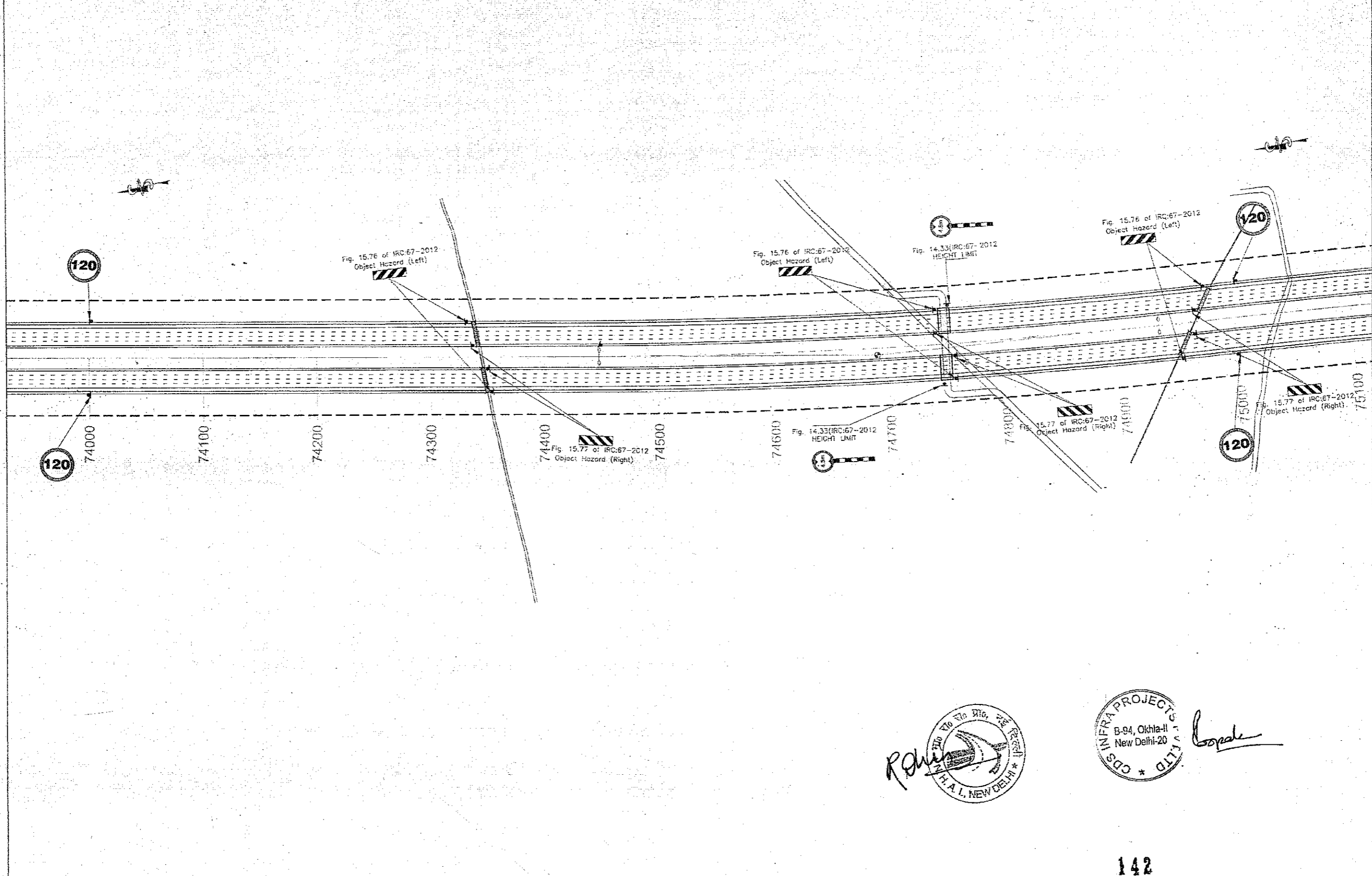
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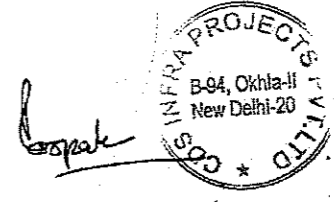
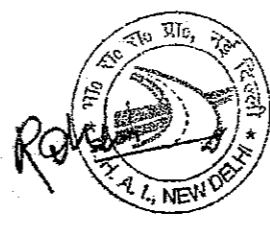
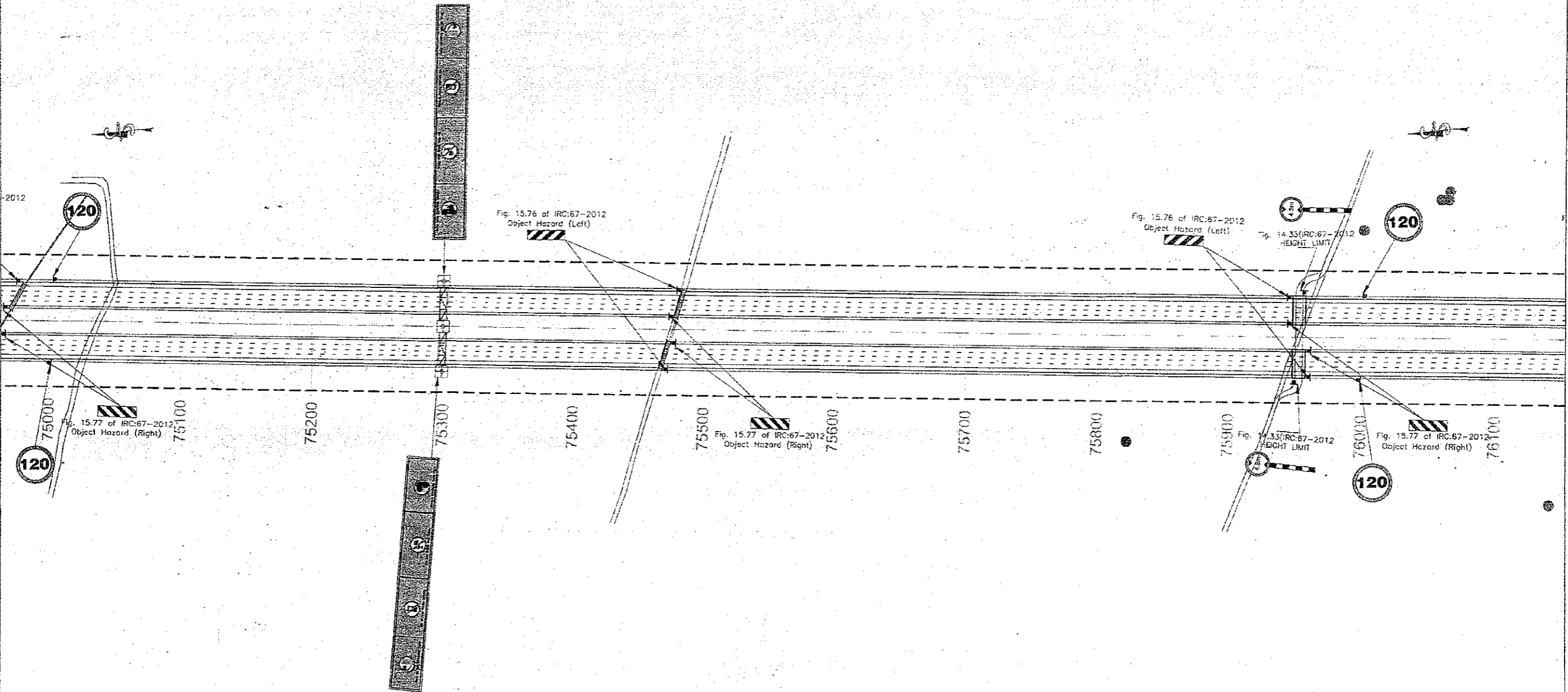






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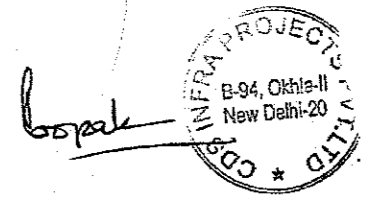
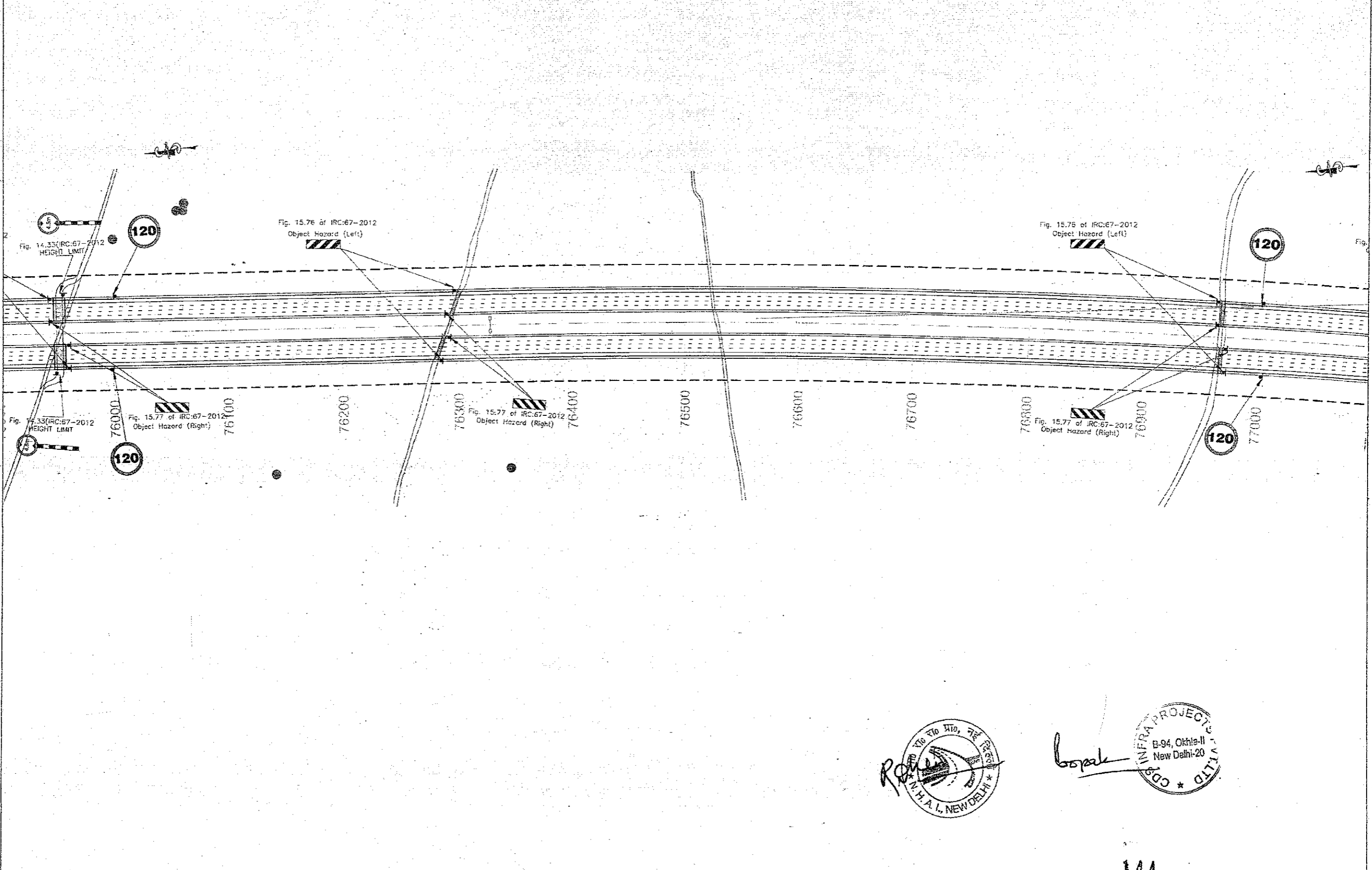


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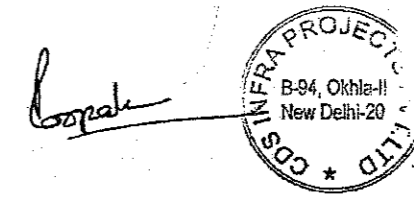
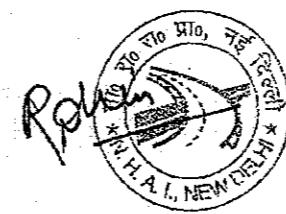
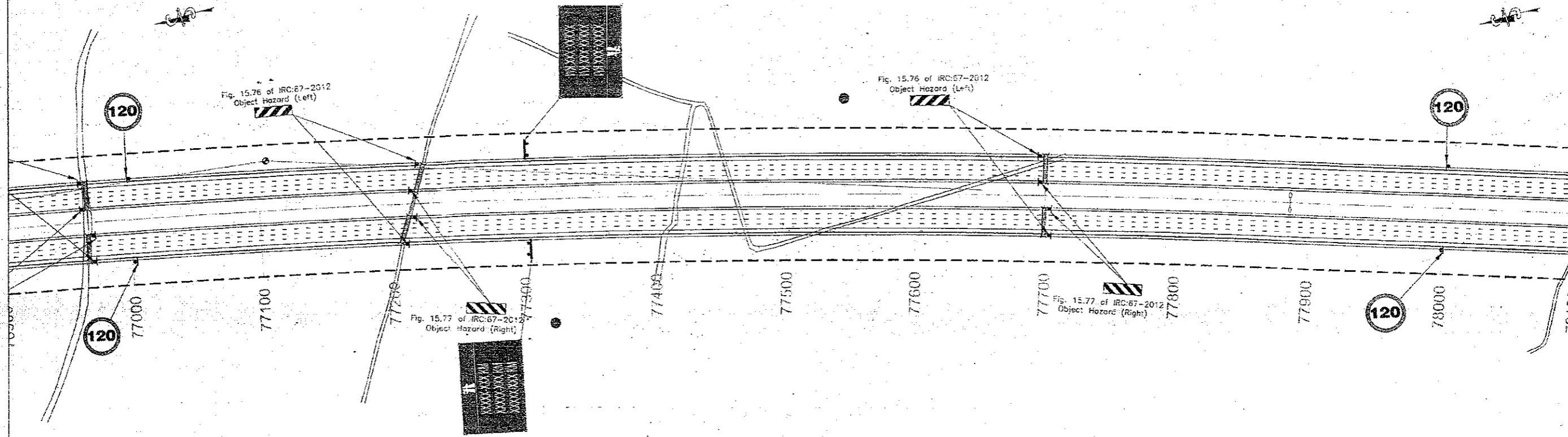


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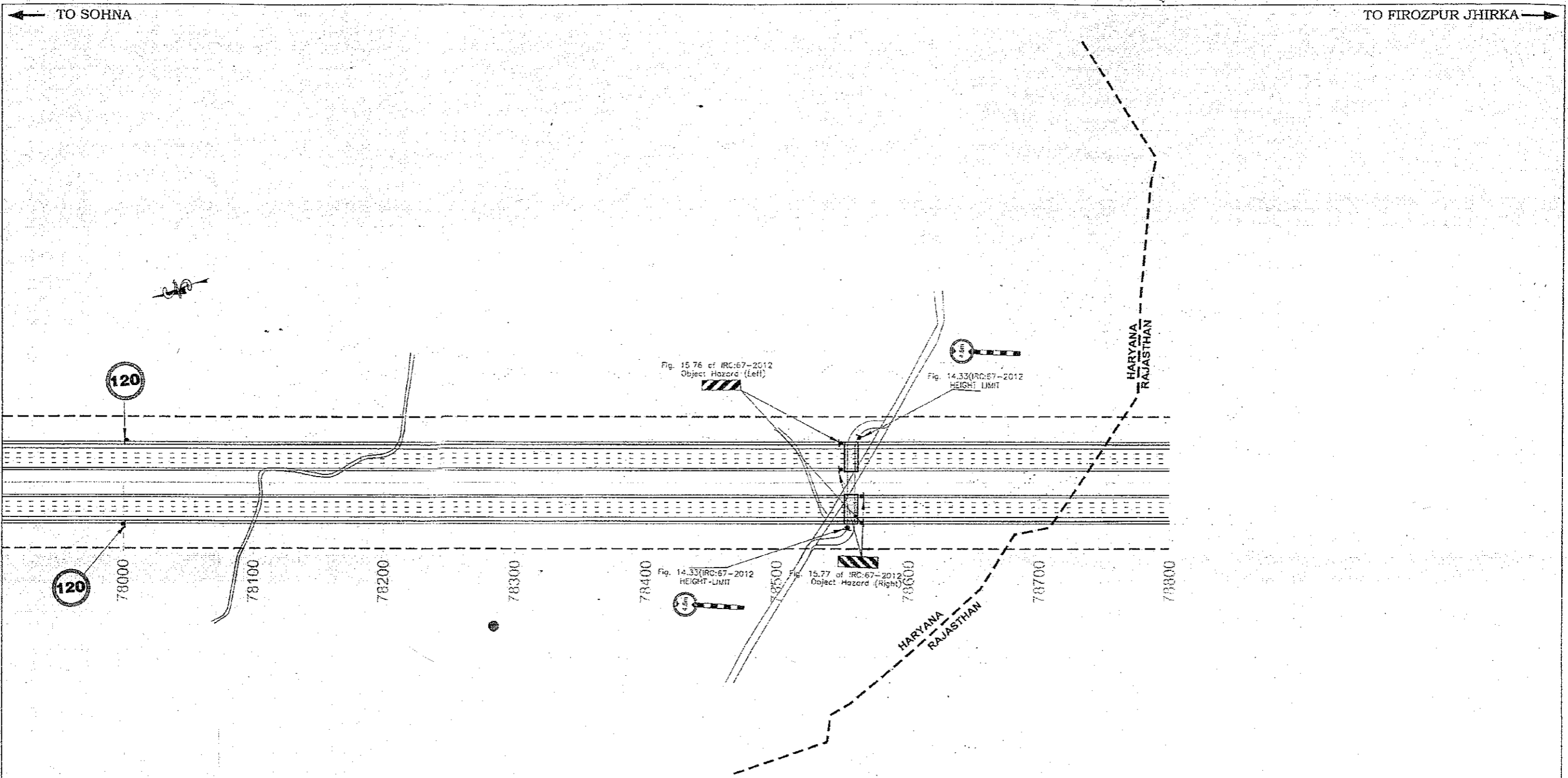
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<p>CLIENT:-  National Highways Authority of India (Ministry of Road, Transport & Highways, Govt. of India)</p>	<p>CONSULTANT:-  Chaitanya Projects Consultancy Pvt. Ltd. C-5, 2ND FLOOR, R.K.TOWER PLOT NO.- 21-22, SECTOR-4, VAISHALI, GHAZIABAD PH.: 0120-3223419, 4120472, FAX: 0120-4110472</p>	<p>PROJECT:- Consultancy Service for the Preparation for Feasibility Report/DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojana (Lot-6/Package-4: Sohna - Firozpur Jhirka)</p>	<p>SCALE :- H=1:2000</p>	<p>DWG TITLE:- PKG-3 ROAD SIGNAGE & MARKING PLAN (SOHNA - FIROZPUR JHIRKA) (KM. 76+000 To KM. 77+000)</p>	<p>DRAWING No :- CPC/P-152/BM/EXP./FR/RS&MP/30 DATE - SEPTEMBER 2018 PREPARED BY: R.K.JALANDRA DESIGNED BY: SANTOSH CHECKED BY: DHARAMVIR APPROVED BY: S.K.SINGHA</p>
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Signature
 PROJECTS
 3-34, Okhla-II
 New Delhi-20

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PREPARED BY	DESIGNED BY	CHECKED BY	APPROVED BY										
R.K.JALANDRA	SARTOSH	DHARAMVIR	S.K.SINGHA										