



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Road Transport & Highways)

### क्षेत्रीय कार्यालय - हैदराबाद

प्रथम तल, नया भवन, भारतीय प्रशासनिक स्टाफ कॉलेज, कॉलेज पार्क कॉम्पस, रोड नंबर-3, बंजारा हिल्स, हैदराबाद-500 034. तेलंगाना

### Regional Office - Hyderabad,

First Floor, New Building, Administrative Staff College of India (ASCI), College Park Campus, Road No. 3, Banjara Hills, Hyderabad - 500 034, Telangana.

टेली / Tele : 040 - 29562147 / 48

ई-मेल / E-mail : rohyderabad@nhai.org  
nhairohyd@gmail.com



भारतमाला  
सुरति के लिए एक नया राजमार्ग  
BHARATMALA  
ROAD TO PROSPERITY

### Notice Inviting Public Comments

NHAI/RO-HYD/25011/3/22/2021/Utility/2141

Dt.25.11.2021

**Sub:** NHAI - RO Hyderabad - PIU Nirmal-Proposal for laying of Optical Fiber Cable for a total length of 82.731 Km from Km.176+200 to Km.260+400 along NH-44 by Open trench Methodology and Highway crossings by HDD methodology at Km.176+200, Km.183+000, Km.186+160, Km.188+480, Km.193+770, Km.199+680, Km.200+720, Km.206+420, Km.211+650, Km.213+700, Km.215+330, Km.218+150, Km.220+900m, Km.226+120, Km.226+720, Km.232+990, Km.233+720, Km.235+360, Km.240+200, Km.240+700, Km.241+460, Km.244+800, Km.245+750, Km.248+700, Km.253+800, and Km.255+080 on Nagpur to Hyderabad section of NH-44 in the State of Telangana- Reg-

**Ref:** 1. PD, PIU Nirmal Lr.no. NHAI/PIU-NRML/Utility/T-Fibre-OFC/2021/1372, dated 10.11.2021

The Project Director, PIU, NHAI, Nirmal vide letter cited above has recommended the Proposal submitted by M/s.Telangana Fiber Grid Corporation Limited for laying of Optical Fiber Cable in between Km.176+200 to Km.260+400 for a total length of 82.731 Km on Nagpur to Hyderabad section of NH-44 in the State of Telangana.

2. As per para 4 of the Ministry's guidelines no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, public comments is hereby invited on the above proposal seeking claims and objections (on grounds of public inconvenience, safety and general public interest) within 30 days on public portal i.e. website of Ministry of Road Transport and Highways (www.morth.nic.in) in Form-A (copy enclosed) for "Accommodation of Public and Industrial Utility Services along and across National Highways".

### Comment Inviting Authority

The Regional Officer,  
National Highways Authority of India,  
Regional Office: Hyderabad,  
First Floor, New Building,  
Administrative Staff College of India(ASCI),  
College Park Campus, Road No.3,  
Banjara Hills, Hyderabad - 500 034,  
Telangana State,  
Phone: 040-29562147, 040-29562148,  
Email: rohyderabad@nhai.org, nhairohyd@gmail.com

Yours faithfully,

Encls: Above Proposal

(G.V. Bheemasena Reddy)  
Deputy General Manager (Tech)  
For Regional Officer-cum-  
Highway Administrator, Hyderabad

To:

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.
2. Shri S.Manivasagam, Dy. GM (IT), NHAI HQs, New Delhi for uploading on NHAI website.

Copy to:-1. The Project Director, NHAI, PIU Nirmal: for information  
2. M/s Telangana Fiber Grid Corporation Limited: for information

**FORM-A**

Form for seeking claims and objections (on grounds of public inconvenience, safety and general public interest) on the application for Accommodation of Public and Industrial Utility Services along and across National Highways

**Sub:** NHAI - RO Hyderabad - PIU Nirmal-Proposal for laying of Optical Fiber Cable for a total length of 82.731 Km from Km.176+200 to Km.178+403 (RHS), from Km.180+795 to Km.192+625 (RHS), from Km.193+420 to Km.193+800 (RHS), from Km.197+572 to Km.199+680 (RHS), from Km.200+750 to Km.226+150 (RHS), from Km.226+750 to Km.226+910 (RHS), from Km.227+440 to Km.257+850 (RHS), from Km.259+000 to Km.260+400 (RHS), from Km.185+935 to Km.186+160 (LHS), from Km.188+510 to Km.188+750 (LHS), from Km.193+420 to Km.193+770 (LHS), from Km.199+710 to Km.199+930 (LHS), from Km.206+450 to Km.207+000 (LHS), from Km.211+650 to Km.212+810 (LHS), from Km.213+150 to Km.215+420 (LHS), from Km.218+175 to Km.218+490 (LHS), from Km.220+940 to Km.221+130 (LHS), from Km.225+780 to Km.226+120 (LHS), from Km.226+720 to Km.226+910 (LHS), from Km.235+360 to Km.235+440 (LHS), from Km.240+700 to Km.240+900 (LHS), from Km.241+460 to Km.241+780(LHS), from Km.244+840 to Km.244+930(LHS), from Km.253+330 to Km.253+800(LHS), from Km.255+000 to Km.255+080 (LHS) along NH-44 by Open trench Methodology and Highway crossings by HDD methodology at Km.176+200, Km.183+000, Km.186+160, Km.188+480, Km.193+770, Km.199+680, Km.200+720, Km.206+420, Km.211+650, Km.213+700, Km.215+330, Km.218+150, Km.220+900m, Km..226+120, Km.226+720, Km.232+990, Km.233+720, Km.235+360, Km.240+200, Km.240+700, Km.241+460, Km.244+800, Km.245+750, Km.248+700, Km.253+800, and Km.255+080 on Nagpur to Hyderabad section of NH-44 in the State of Telangana-Reg.

The claims and objections (on grounds of public inconvenience, safety and general public interest) by the general public needs to be given within 30 days of uploading the online application for comments

Sl. No	Item	Details
1	Name of the person who is desiring to give claims and objections (on grounds of public inconvenience, safety and general public interest)	
2	Address of the person	
3	Details of the application for Accommodation of Public and Industrial Utility Services along and across National Highways against which claims and objections are being given (name of applicant and other details like site address etc.)	
	a) Application No.	
	b) Name of applicant (who applied to Accommodation of Public and Industrial Utility Services along and across National Highways)	
	c) Details of Application	
4	The claims and objections (on grounds of public inconvenience, safety and general public interest)	



**CHECK-LIST**

**Guidelines for Project Directors for processing the proposal of laying optical fiber cable by private parties in the land along National Highways vested with NHAI.**

**Relevant circulars**

- Ministry Circular No. RW/NH-33044/17/2000-S&R dated 29.09.2000.
- NHAI's circular No. NHAI/OEC/2k/Vol II dated 7.11.2000, which includes the comprehensive guideline and draft license agreement for laying of OFC cable by private party in the land along National Highway vested with NHAI.
- Ministry's circular No. RW/NH-33044/27/2015-S&R(R) dated 22.11.2016. It is regarding the modification of previous Ministry's circular enhancing the amount of Performance Bank Guarantee and Charges for granting license for use of highway land.

**Check list for getting approval for laying of optical fiber cables on NH land**

S.No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	M/S Telangana Fiber Grid Corporation Limited, 7th Floor splendid Tower, SP Road Begumpet, Hyderabad, Telangana-500003	
1.2	National Highway Number	NH-44	
1.3	State	Telangana	
1.4	Location	Telangana/Maharashtra Border to Kadthal.	
1.5	(Chainage in km)	Between Km.176/200 to Km.260/400 (Annexure-III)	
1.6	Length in Meters	82731 Meters.	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction	30 Mtrs	
	(b) Right side from center line towards increasing chainage/km direction	30 Mtrs	
1.8	Proposal to lay the cable		
	(a) Left side from center line towards increasing	28 Mtrs	



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	chainage/km direction		
	(b) Right side from center line towards increasing chainage/km direction	28 Mtrs	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line		
	(b) Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route		
1.12	Number of lanes (2/4 / 6/8 lanes) existing	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	-	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	18-21 Meters	
	(b) Right side from center line	18-21 Meters	
1.15	Proposed Service Road	No	
	(a) Left side from center Line		
	(b) Right side from center line		
1.16	Whether proposal to lay cable is after the service road or between the service road and main carriageway	Beyond service road or in utility corridor,	
1.17	The permission for laying OFC shall be considered for approval/rejection		
	(i) Where the ROW is more than 45 m then the duct cable shall be laid at the edge of right of way within the utility corridor of 2m width, duly keeping in view the future widening.	At the edge of ROW within utility corridor of 2 Mtrs width	
	(ii) where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not proposed to be acquired for 4-laning.	NA	
	(iii) Where the widening plan for 4-laning is not yet decided and available ROW is around 30m or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans.	NA	
	(iv) Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. highways in cutting through hilly/rolling terrain), the cable shall be laid	NA	



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	clear of the drain.		
	(v) Where land strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused.	NA	
1.18	No. of applicants on the same stretch	1	
1.19	Whether the case of multiple licenses	No	
1.20	If so furnish a joint implementation programmer to lay their respective ducts within stipulated time frame.	NA	
1.21	If crossings of the road involved If Yes it shall only be through trench-less technology	Yes. Agreed	
2.	Document/Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.65m deep x 0.5m wide) Should not be greater than 1.2m in width in multiple ducts.	Yes, agreed	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes; Enclosed (Crossing)	
2.3	Strip plan/Route Plan showing the OFC, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important milestone, intersections, cross drainage works etc.	Yes; Enclosed	
2.4	Methodology for laying of OFC	Yes; Enclosed	
2.4.1	Open trenching method. If yes, Methodology of refilling of trench	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes @ Crossings	
2.4.3	Laying OFC Through CD Works And Method Of Laying (Whether to be hung outside parapet)	Yes	
3.	Draft license Agreement signed by two witnesses	Yes	
4.	Performance Bank Guarantee	Yes; enclosed	
4.2	Confirmation of BG has been obtained as per NHA guidelines		
5	Affidavit/ Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHA or to the concerned agency.	Yes ; Enclosed	
5.2	Renewal of Bank Guarantee		
5.3	Confirming all standard condition of NHA's guideline	Yes ; Enclosed	
5.4	Shifting of OFC as and when required by NHA	Yes ; Enclosed	
5.5	Shifting due to planning / widening of NH	Yes ; Enclosed	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes ; Enclosed	
5.7	Traffic movement during laying of OFC to be managed by the applicant	Yes, Traffic movement will be managed by the applicant	



*[Signature]*  
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5.8	If any claim is raised by the Concessionaries then the same has to be paid by the applicant	Yes ; Enclosed	
5.9	Certificate for 6-lanning from the applicant in following format "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development."	Yes ; Enclosed	
6.	Power of Attorney in favor of authorized signatory	Yes ; Enclosed	
7.	Copy of DOT license		
8.	Certificate from the Project Director		
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/17/2000-S&R dated 29.9.2000 and NHAI's guidelines issued vide No. NHAI/OEC/2k/Vol II dated 7.11.2000 and Ministry's Circular No. RW/NH-33044/27/2000-S&R dated 21.3.2006.	Yes	
8.2	Certificate for 4-lanning from PD in the following format.	Yes	
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location. (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".		
9.	The agreement fee of Rs. 1 shall be charged	Yes	
10.	If NH section proposed to be taken up by NHAI on BOT basis - a clause in para 17 to be inserted in the agreement. <i>"The permitted Highway on which Licensee has been granted the right to lay cable/duct has also ben granted as a right of way to the concessionaire under the concession agreement for up=gradation of [..... section from Km ----- to km ----- of NMH No.- ---- on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."</i>	<i>"The permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted as a right of way to the concessionaire under the concession agreement for upgradation of Design, Construction, Development, Finance, Operation and Maintenance of Km.175.000 (AP/Mah Border) to Km. 486.000 of NH-44 in the State of Telangana under North – South Corridor (NHDP Phase – II) on BOT (Annuity) Basis (Package No.NS2/BOT/AP-6) and "Design, Construction, Development, Finance,</i>	



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		Operation and Maintenance of Km.175.000 (Jainad) to Km. 486.000 of NH-44 in the State of Telangana under North – South Corridor (NHDP Phase – II) on BOT (Annuity) Basis (Package No.NS2/BOT/AP-8)" therefore, the licensee shall honour the same."	
11.	Who will supervise the work of laying OFC	M/S Telangana Grid corporation Limited (State Implementation Agency) BBNL Project for Government of Telangana	
12.	Who will ensure that the defects in road portion after laying of OFC are corrected and if not corrected then what action will be taken.	M/S Telangana fiber Grid corporation Limited(State Implementation Agency) BBNL Project for Government of Telangana.	
13.	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire	M/S Telangana Fiber Grid corporation Limited (State Implementation Agency) BBNL Project for Government of Telangana.	
14.	A Certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed) issued vide Ministry Circular No. RW/NH/33044/17/2000/S&R dated 23.7.2003.	Yes	
15.	If any previous approval is accorded for laying of cable then Photocopy of register of records of permissions accorded as maintained by PD (as per Ministry Circular No. RW/NH-33044/27/2015-S&R(R) dated 22.11.2016) as referred in para 13 above is enclosed or not.		




**PROJECT DIRECTOR**  
National Highways Authority of India  
P.O., NIRMAL. 4

[Enclosure to Ministry Circular No. RW/NH-33044/27/2015-S&R(R) dated 22.11.2016]  
**Format for Maintaining Records of Right-of-Way permission granted for laying OFC**  
**(to be maintained separately for every NH and State)**

- 1 Name of State : Telangana  
 2 Name of Agency : NHAI, PIU-Nirmal  
 3 NH Number : NH-44

S.No	Location (change in Km)	Left or right side of NH (towards increasing chainage/km direction)	Section and reach	Kind of service	Name of license and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MOST standard norms	Remarks
1	Km 176.200 to Km 178.403 ✓	RHS								
2	Km 180.795 to Km 192.625 ✓	RHS								
3	Km 185.935 to Km 186.160 ✓	LHS								
4	Km 188.510 to Km 188.750 ✓	LHS								
5	Km 193.420 to Km 193.770	LHS								
6	Km 193.420 to Km 193.800 ✓	RHS								
7	Km 197.572 to Km 199.680 ✓	RHS								
8	Km 199.710 to Km 199.930	LHS								
9	Km 200.750 to Km 213.580 ✓	RHS								
10	Km 206.450 to Km 207.000 ✓	LHS								
11	Km 211.650 to Km 212.810 ✓	LHS								
12	Km 213.150 to Km 215.420	LHS								
13	Km 213.590 to Km 226.150 ✓	RHS								
14	Km 218.175 to Km 218.490 ✓	LHS								
15	Km 220.940 to Km 221.130 ✓	LHS								
16	Km 225.780 to Km 226.120 ✓	LHS								
17	Km 226.720 to Km 226.910 ✓	LHS								
18	Km 226.750 to Km 226.910 ✓	RHS								
19	Km 227.440 to Km 257.850 ✓	RHS								
20	Km 235.360 to Km 235.440 ✓	LHS								
21	Km 240.700 to Km 240.900 ✓	LHS								
22	Km 241.460 to Km 241.780 ✓	LHS								
23	Km 244.840 to Km 244.930 ✓	LHS								
24	Km 253.330 to Km 253.800 ✓	LHS								
25	Km 255.000 to Km 255.080 ✓	LHS								
26	Km 259.000 to Km 260.400 ✓	RHS								
27	Km 176.200 to Km 176.250 ✓	Road Crossing								
28	km 183.000 to Km 183.030 ✓	Road Crossing								

M/S Telangana Fiber Grid Corporation Limited, 7th Floor splendid Tower, SP Road Begumpet, Hyderabad, Telangana-500003


  
**PROJECT DIRECTOR**  
 National Highways Authority of India  
 PIU, NIRMAL.





S.No	Location (change in Km)	Left or right side of NH (towards increasing chainage/km direction)	Section and reach	Kind of service	Name of license and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MOST standard norms	Remarks
29	Km 186.160 to Km 186.200	Road Crossing		Telecom	M/S Telangana Fiber Grid Corporation Limited, 7th Floor splendid Tower, SP Road Begumpet, Hyderabad, Telangana-500003				No	
30	Km 188.480 to Km 188.510	Road Crossing								
31	Km 193.770 to Km 193.800	Road Crossing								
32	Km 199.680 to Km 199.710	Road Crossing								
33	Km 200.720 to Km 200.750	Road Crossing								
34	Km 206.420 to Km 206.450	Road Crossing								
35	Km 211.650 to Km 211.670	Road Crossing								
36	Km 213.700 to Km 213.720	Road Crossing								
37	Km 215.330 to Km 215.350	Road Crossing								
38	Km 218.150 to Km 218.175	Road Crossing								
39	Km 220.900 to Km 220.940	Road Crossing								
40	Km 226.120 to Km 226.150	Road Crossing								
41	Km 226.720 to Km 226.750	Road Crossing								
42	Km 232.990 to Km 233.030	Road Crossing								
43	Km 233.720 to Km 233.750	Road Crossing								
44	Km 235.360 to Km 235.390	Road Crossing								
45	Km 240.200 to Km 240.210	Road Crossing								
46	Km 240.700 to Km 240.730	Road Crossing								
47	Km 241.460 to Km 241.490	Road Crossing								
48	Km 244.800 to Km 244.840	Road Crossing								
49	Km 245.750 to Km 245.750	Road Crossing								
50	Km 248.700 to Km 248.730	Road Crossing								
51	Km 253.800 to Km 253.820	Road Crossing								
52	Km 255.800 to Km 255.100	Road Crossing								



  
**PROJECT DIRECTOR**  
National Highways Authority of India  
P.W. MATERIAL.

*PSa*  
P SANDHYA RANI  
S.V.L.NO. 1/2007  
H.NO. 8-3-677/1/2  
YELLAREDDYGUDA  
HYDERABAD - 500073  
LICENSE NO: 06/2007



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Annexure No-5

### UNDERTAKING

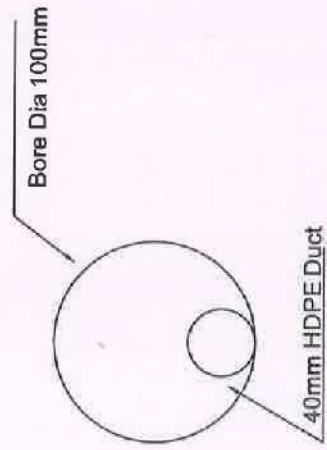
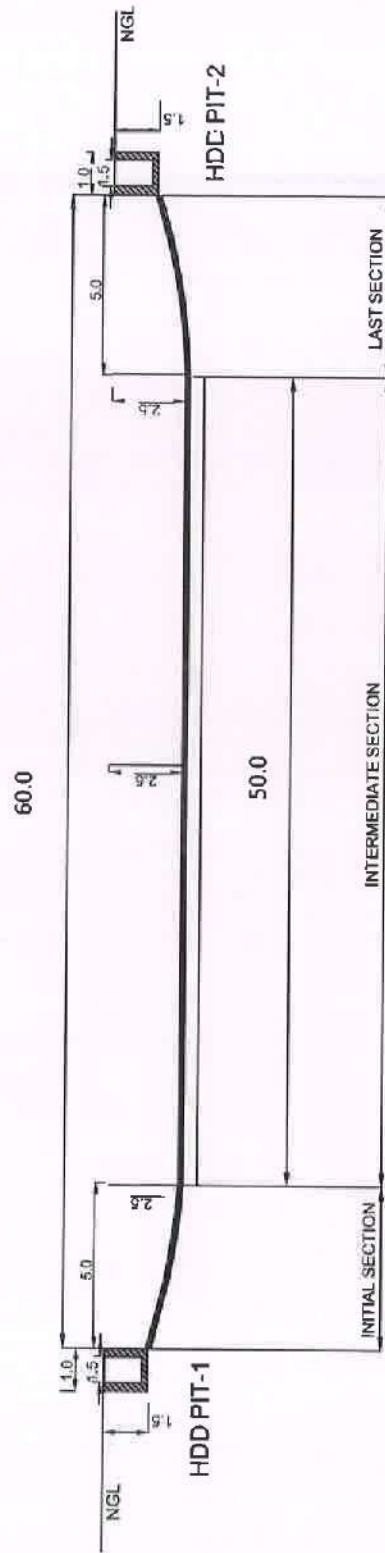
M/s Telangana Fiber Grid Corporation Limited. (A BBNL Project) for Government of Telangana to provide high speed Broad Band connectivity up to Gram Panchayats, Mandals hereby do undertake that: -

1. We propose to cross the river/nallah/any cross-drainage structure by cable laying GI/RCC pipes at least 1.65 Mtrs Below the river bed.
2. All link roads will be crossed by Auger boring or using trench less method. In case if there are any difficulties at a particular crossing M/s Telangana Fiber Grid Corporation Limited will contact department's concerned engineer before taking up the work.
3. The department shall not be responsible for any loss or damage to the cable etc. that may occur due to any reasons during/after laying the same.
4. In the event of any mis-happening/accidents etc. while carrying laying of cables M/s Telangana Fiber Grid Corporation Limited shall be liable to pay the any type of compensation so claimed.
5. M/s Telangana Fiber Grid Corporation shall not cause any damage to the carriageway of the highway and structure like bridges, culverts, drains, buildings, etc. and in case of failure Telangana Fiber Grid Corporation Limited will be liable to make good the loss caused to the department.
6. M/s Telangana Fiber Grid Corporation shall lay the cables under the guidance of the department.





# Typical Cross Sectional For HDD



**PROJECT DIRECTOR**  
National Highways Authority of India  
PUNJAB, INDIA.



## TELANGANA FIBER GRID CORPORATION LTD.

### Authorization letter

Dt. 02.09.2020

### To Whomsoever It May Concern

I, Sujai Karampuri, Managing Director, Telangana Fiber Grid Corporation Limited (T-Fiber) vide 1<sup>st</sup> Board of Directors Meeting resolution Dated: 31.08.2017, [Section-12], hereby appoint Sri. Srinivas Jukuri, Senior Director, T-Fiber, as a Representative of T-Fiber ("Representative"). The aforesaid Representative is hereby authorized to sign on letters or/and any other documents as may be necessary or required for the Right of Way (RoW) permissions from the Central and State Government Agencies, including not limited to, NHAI, MoRTH (R&B-NH Division), Forest Department, South Central Railways, GAS/OIL Agencies.

The individuals below are authorized on behalf of T-Fiber to sign ancillary documents, as may be required for aforesaid RoW approval, including but not limited to, Single Line Diagrams, Annexures, Methodology, Checklist, or any other documents as may be necessary or required for the RoW permission from the aforementioned Agencies.

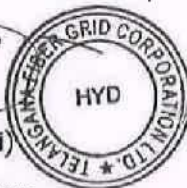
- 1) Sri Arun Kumar Jukkalkar, Manager (Liasioning & ROW), T-Fiber
- 2) Sri D.Srinivasulu Reddy, Project Manager, T-Fiber
- 3) Sri Bhaskar Chilupuri, Project Manager, T-Fiber
- 4) Sri Shiva Shankar Kongari, Project Manager, T-Fiber

(collectively, the "Representatives")

This letter of Authorization shall remain valid until T-Fiber removes or replaces its designated Representative(s) upon written notice in the same form as this letter of Authorization.

For Telangana Fiber Grid Corporation Ltd

  
(Sujai Karampuri)  
Managing Director





P&C  
P SANDHYA RANI  
S.V.L.NO. 1/2007  
H.NO. 8-3-677/1/2  
YELLAREDDYGUDA  
HYDERABAD - 500073  
LICENSE NO: 06/2007



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TELANGANA

Enclosure to Ministry of Road Transport & Highways letter No. 33044/29/2015/S&R® Dtd.22/11/2016

**AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS  
FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS**

Agreement to lay Telecom Cables/Duct/Optical Fiber along on road Nagpur-Hyderabad NH-44, from Km 176.200 to 260.400 as per Annexure-III Total Section length of 82731 Mtrs ,Under the Jurisdiction of Nirmal.

This Agreement made this \_\_\_\_\_ day of \_\_\_\_\_ Month of \_\_\_\_\_ year between National Highway Authority of India acting in his executive capacity through \_\_\_\_\_ (hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) on the one part and **M/S Telangana Fiber Grid Corporation Limited** (A BBNL Project) for Government of Telangana referred as Project Telangana Fiber, which expression shall, unless excluded by repugnant to the context, include his successors/administrator assignees on the second part.

Whereas the authority is responsible, inter-alia for development and maintenance of lands in a long road Nagpur-Hyderabad NH-44, from Km 176.200 to 260.400 as per Annexure-III Total Section length of 82731 Mtrs ,Under the Jurisdiction of Nirmal.



Whereas the Licensee has applied to the Authority for permission to lay Telecom Cables/ducts from road/route along Nagpur-Hyderabad NH-44, from Km 176.200 to 260.400 as per Annexure-III Total Section length of 82731 Mtrs ,Under the Jurisdiction of Nirmal.

And whereas the Authority has agreed to grant such permission for way leave on the NH RoW as per terms and conditions hereinafter mentioned.

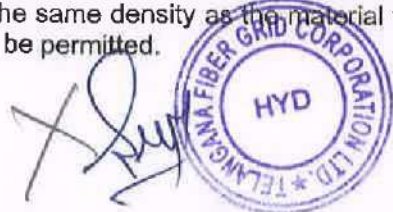
Now this agreement witnessed tat in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached hereto subject to the following conditions, namely.

1. RoW permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway RoW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the RoW and any subsequent user will be permitted to use the RoW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfillment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/industrial infrastructure facilities.
4. The Licensee shall pay license fees @ Rs. ....../sq m/month to the Authority. The License fee shall become payable from the date of handing over of RoW land to the Licensee, for laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.
6. Present policy of the MoRTH is to provide a 2.00 m wide utility corridor on either side of the extreme edge of RoW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other road side furniture etc; the utility services shall be laid beyond the toe line of the embankments and clear of the drain.





8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed in case, this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.
9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority;
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing/ conduit pipe should, as minimum, extend from drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
- a. Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
- b. The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
- c. The side fill shall consist of granular material laid in 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.





d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.

17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50 m away from the edge of the right of way;

18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.

19. Prior to commencement of any work on the ground, a performance Bank Guarantee @Rs 100/- per route metre with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/its designated agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.

20. In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility;

21. The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.

22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority, regarding the location of other utilities / underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations/utilities/facilities etc. before commencement of the excavation/using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/utilities /facilities etc.

23. The Licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency / aggrieved Authority for any direct, indirect or consequential damage caused to them / claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in co-ordination with Authority shall also have a right make good such damages/ recover the claims by forfeiture of Bank Guarantee.





24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The licensee shall indemnify the concerned agency in co-ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in co-ordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land/ property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.





35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the Site at all times to the authorized representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
- operation, repair and maintenance guidelines given by the manufacturers,
  - the requirements of Law,
  - the physical conditions at the Site, and
  - The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.
42. Any disputes in interpretation of the terms and conditions of this Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.





43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires. MoRT&H/

44. NHAI/ implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This Agreement has been made in duplicate, each on Stamp Paper. Each party to this Agreement has retained one stamped copy each.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESPECTIVE AUTHORISED REPRESENTATIVES THE DAY AND THE YEAR FIRST ABOVE WRITTEN.

SIGN, SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY

By Shri \_\_\_\_\_

(Signature, Name and Address with Stamp)





By Shri \_\_\_\_\_

(Signature, Name and Address with Stamp)

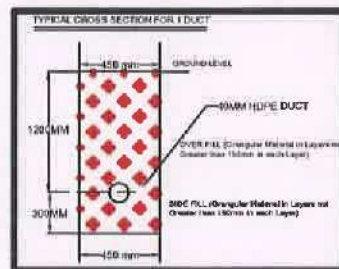
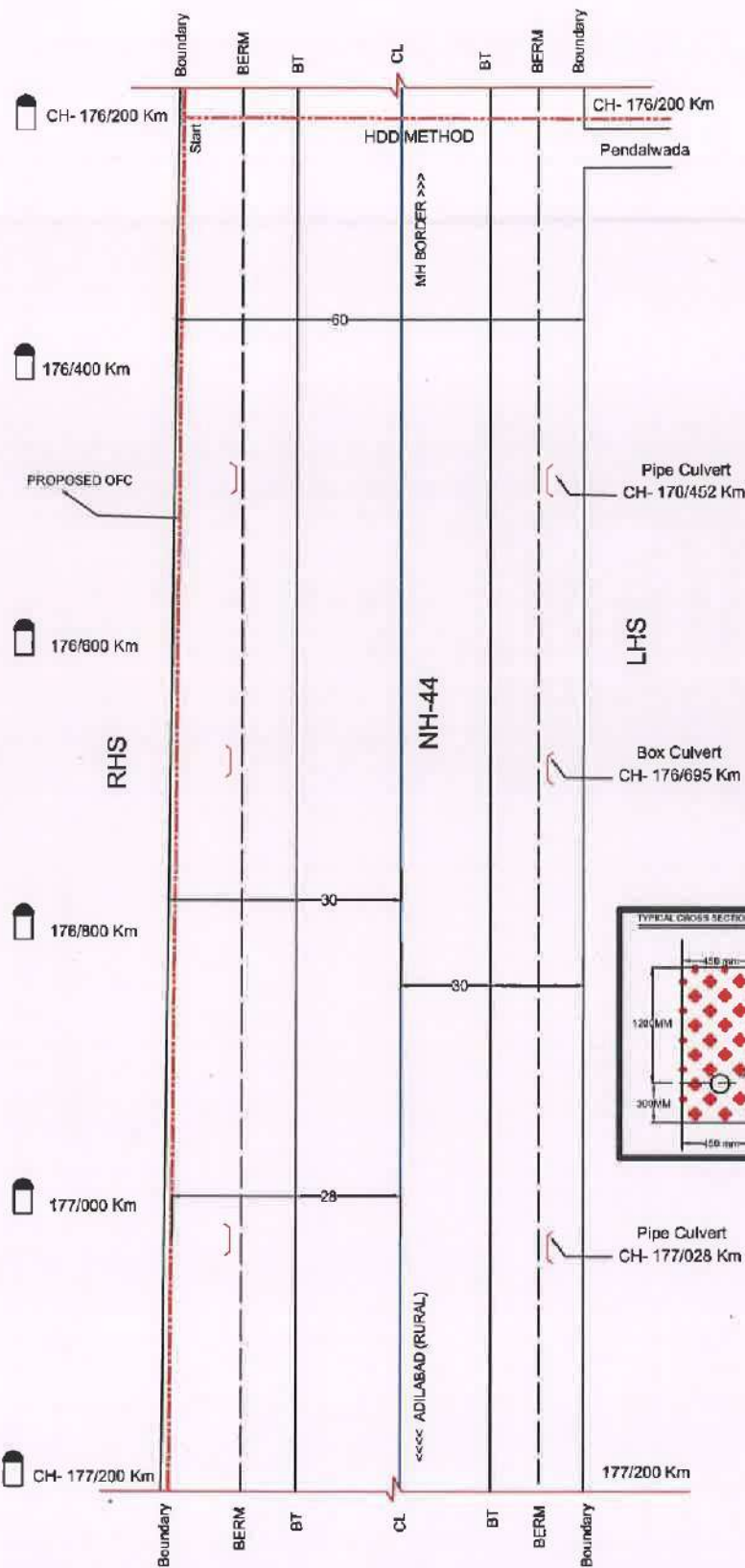
SIGNED ON BEHALF OF M/s. Telangana Fiber Grid Corporation Limited.

HOLDER OF GENERAL POWER OF ATTORNEY DATED \_\_\_\_\_EXECUTED IN  
ACCORDANCE WITH THE RESOLUTION NO. \_\_\_\_\_DATED \_\_\_\_\_PASSED BY THE  
BOARD OF DIRECTORS IN THE MEETING HELD ON \_\_\_\_\_.

IN THE PRESENCE OF (WITNESSES):

1. J. ARUN KUMAR, ROW MANAGER: 
2. R.V.R.V. HARI KISHORE, ROW EXECUTIVE: 

# NH-44 - 176/200 to 177/200 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

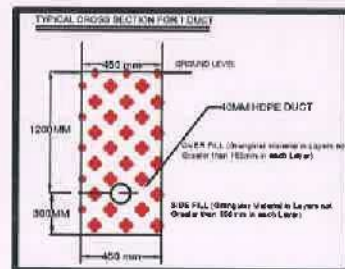
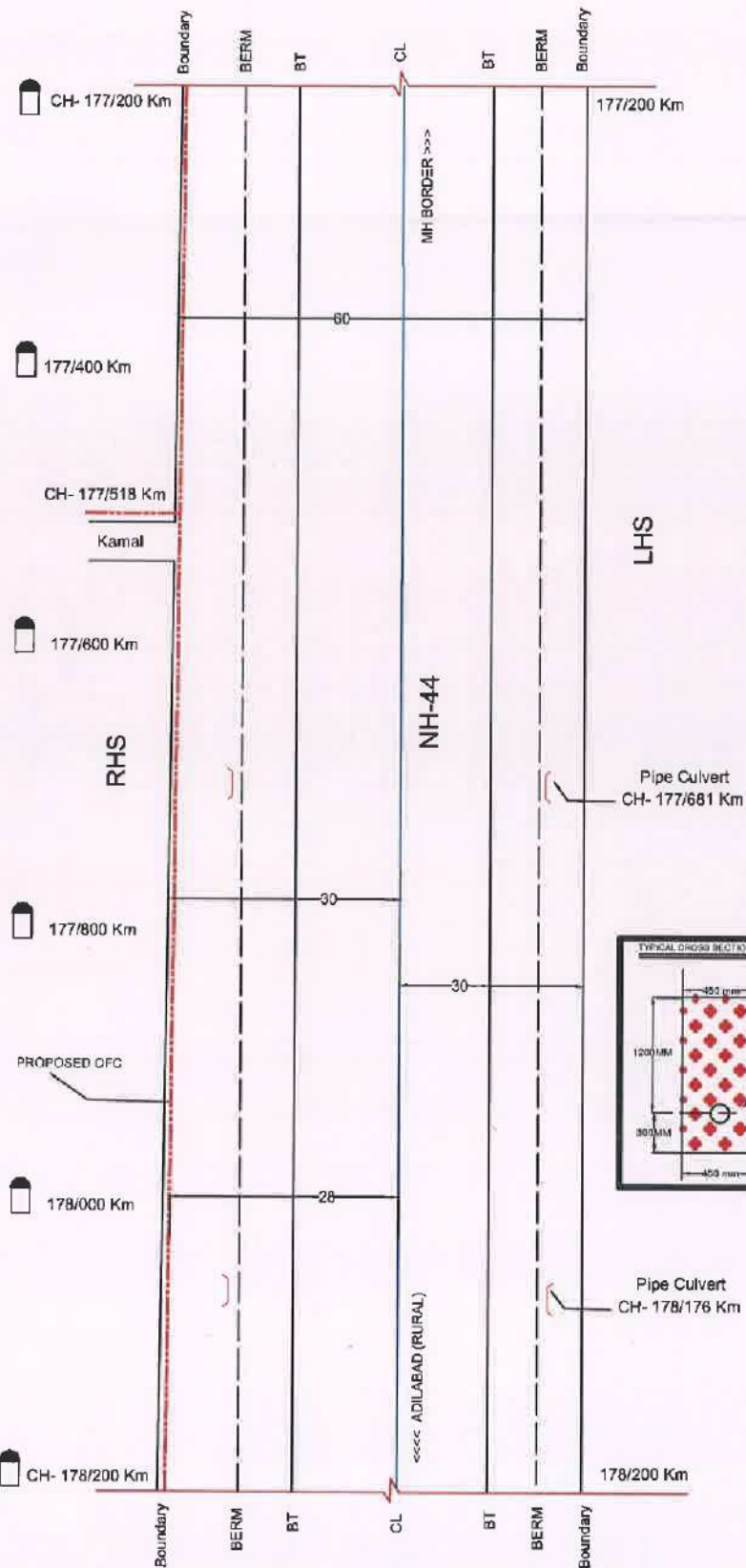
All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
P.W. NIRMAL.





# NH-44 - 177/200 to 178/200 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	CL
	BT
	PROPOSED OFC
	PROPOSED OFC
SCALE	NOT TO SCALE

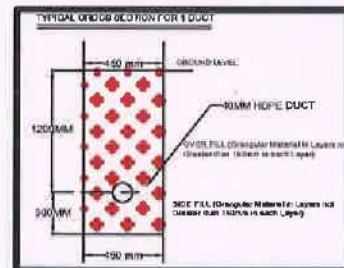
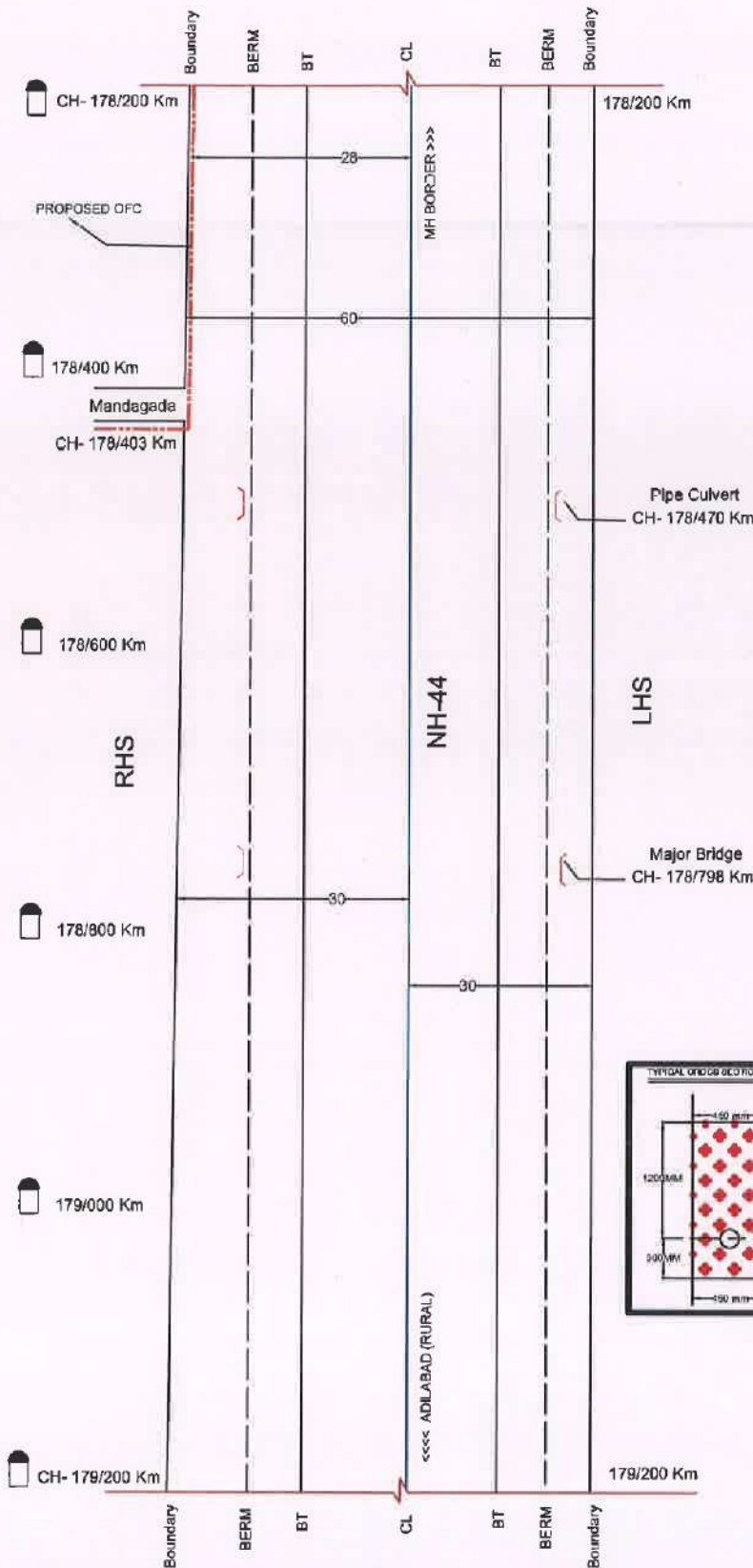
SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
PHU, MUMBAI.



# NH-44 - 178/200 to 179/200 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

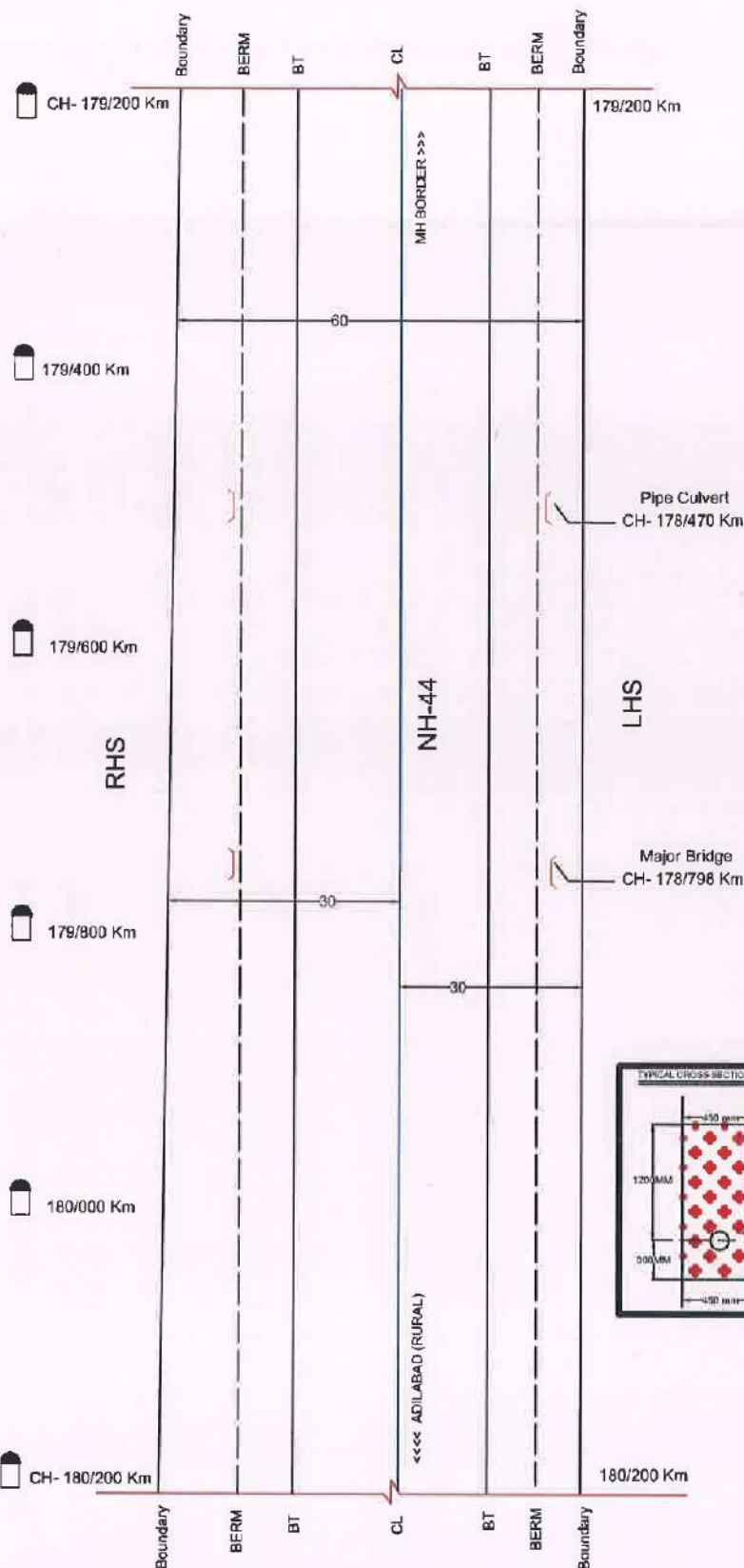
All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
P.U., NIRMAL.





# NH-44 - 179/200 to 180/200 km



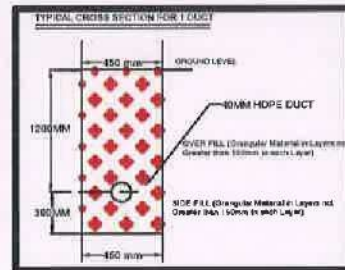
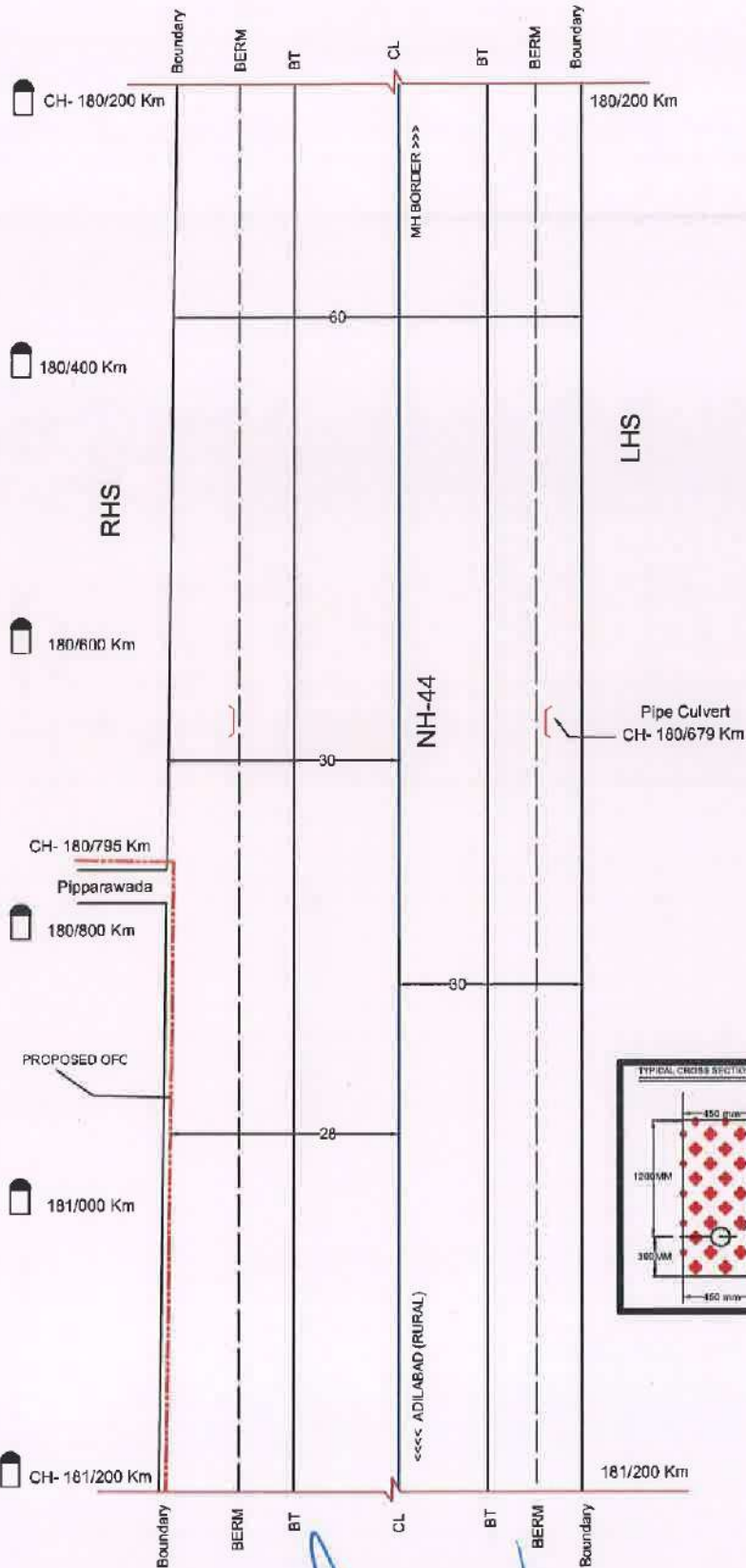
SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
PIU, NRMAL.



# NH-44 - 180/200 to 181/200 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

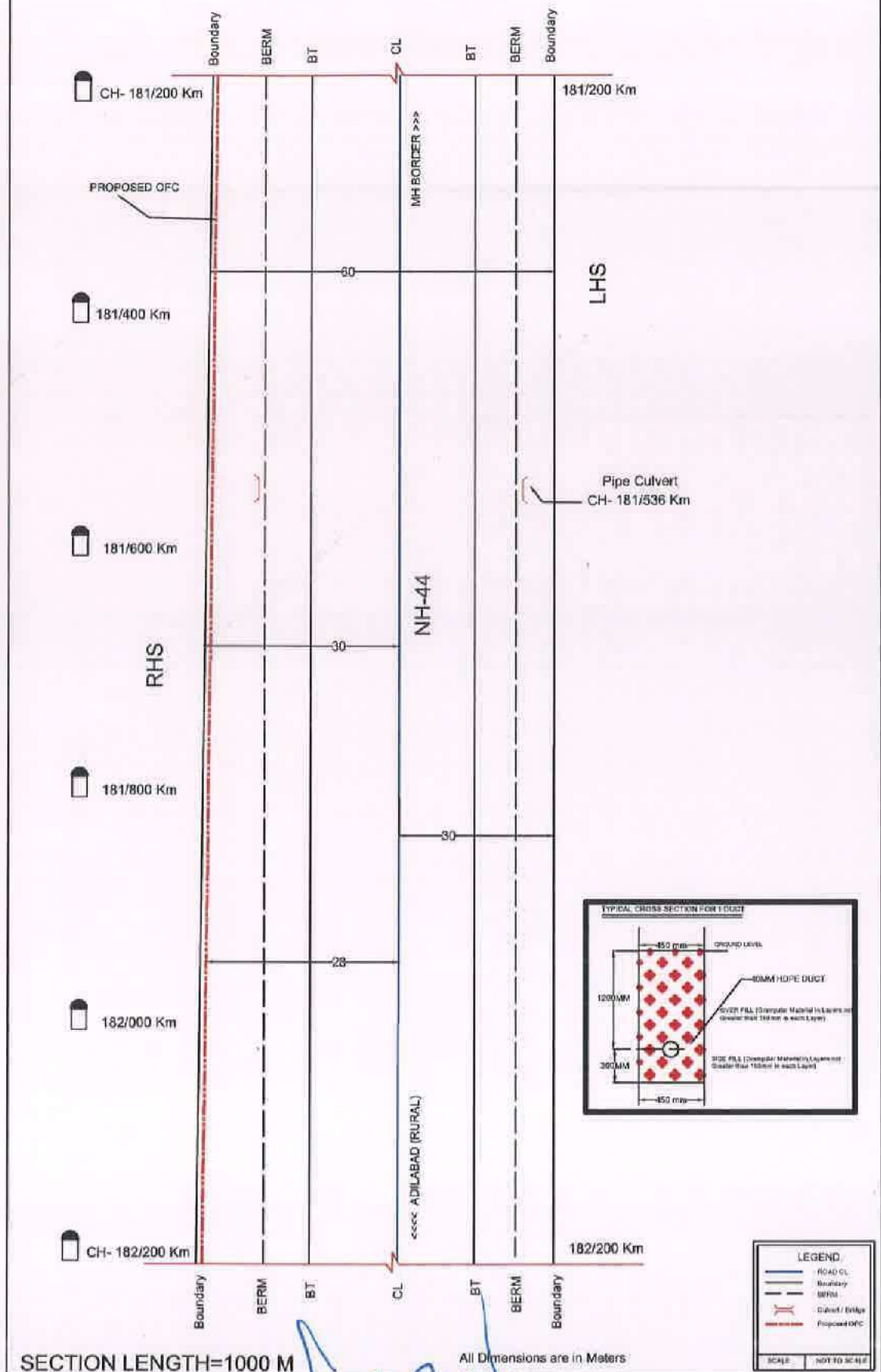
All dimensions are in Meters

**PROJECT DIRECTOR**  
National Highways Authority of India  
PHU, NIRMAL.





# NH-44 - 181/200 to 182/200 km



**PROJECT DIRECTOR**  
National Highways Authority of India  
PKU, NIRMAL.



NH-44 - 182/200 to 183/200 km

Boundary BERM BT CL BT BERM Boundary

CH- 182/200 Km 182/200 Km

PROPOSED OFC

MH BORDER >>>

60

RHS

LHS

Pipe Culvert  
CH- 182/724 Km

30

30

28

HDD METHOD

CH- 183/000 Km

POOSAI

ADILABAD (RURAL)

CH- 183/200 Km 183/200 Km

SECTION LENGTH=1000 M

All Dimensions are in Meters

**TYPICAL CROSS SECTION FOR 1 DUCT**

GROUND LEVEL

1200MM

300MM

150mm

60MM HDPE DUCT

OTHER FILL (Irregular Material) in Layers not Greater than 150mm in each Layer

SIDE FILL (Irregular Material) in Layers not Greater than 150mm in each Layer

**LEGEND**

- ROAD CL
- Boundary
- BERM
- Culverts / Bridge
- Proposed OFC

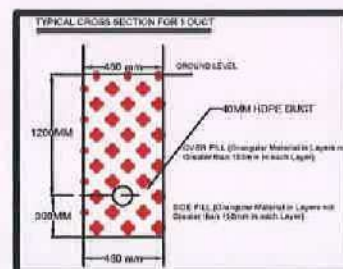
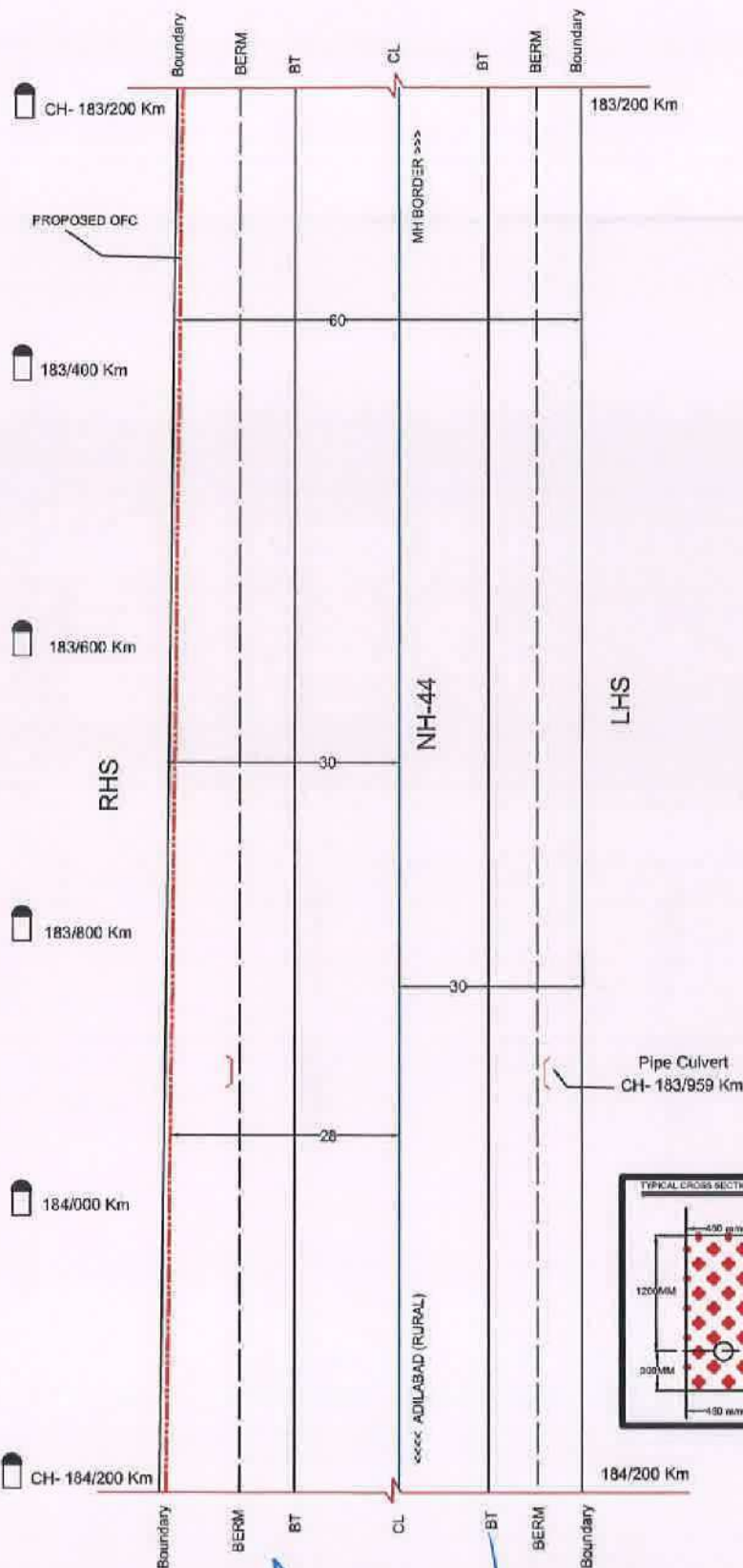
SCALE NOT TO SCALE

PROJECT DIRECTOR  
National Highways Authority of India  
PIU, NIRMAL.





# NH-44 - 183/200 to 184/200 km



LEGEND:	
	ROAD CL
	Boundary
	BERM
	Culvert/Bridge
	Proposed OFC
SCALE	NOT TO SCALE

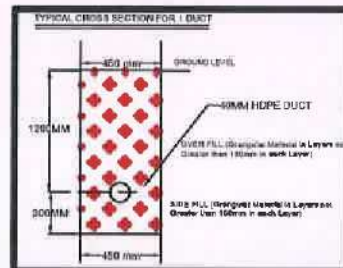
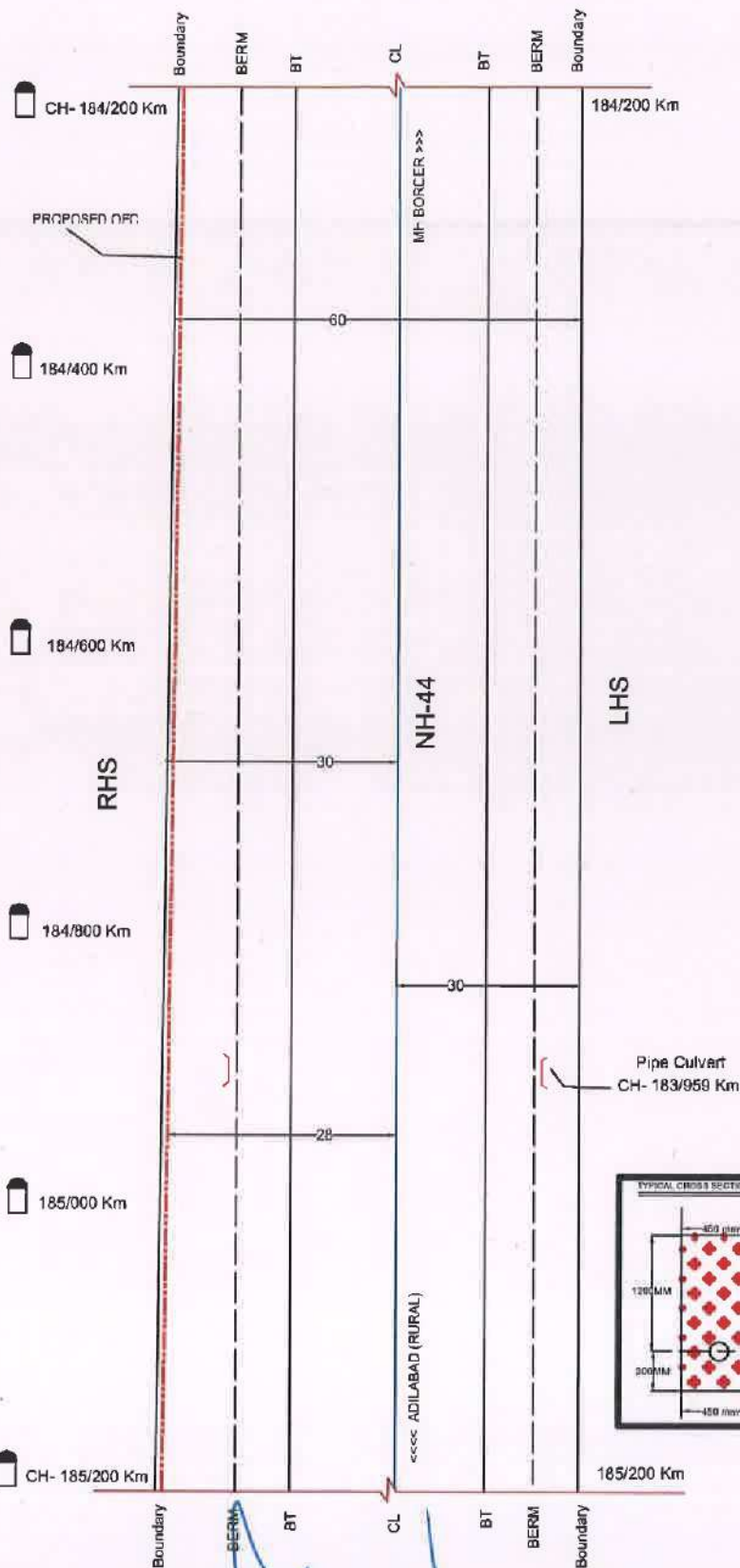
SECTION LENGTH=1000 M

All Dimensions are in Meters

**PROJECT DIRECTOR**  
National Highways Authority of India  
PHU, NIRMAL.



# NH-44 - 184/200 to 185/200 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Curve R/Offset
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

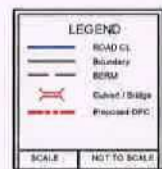
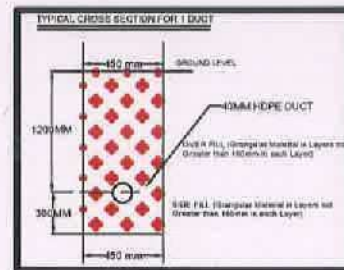
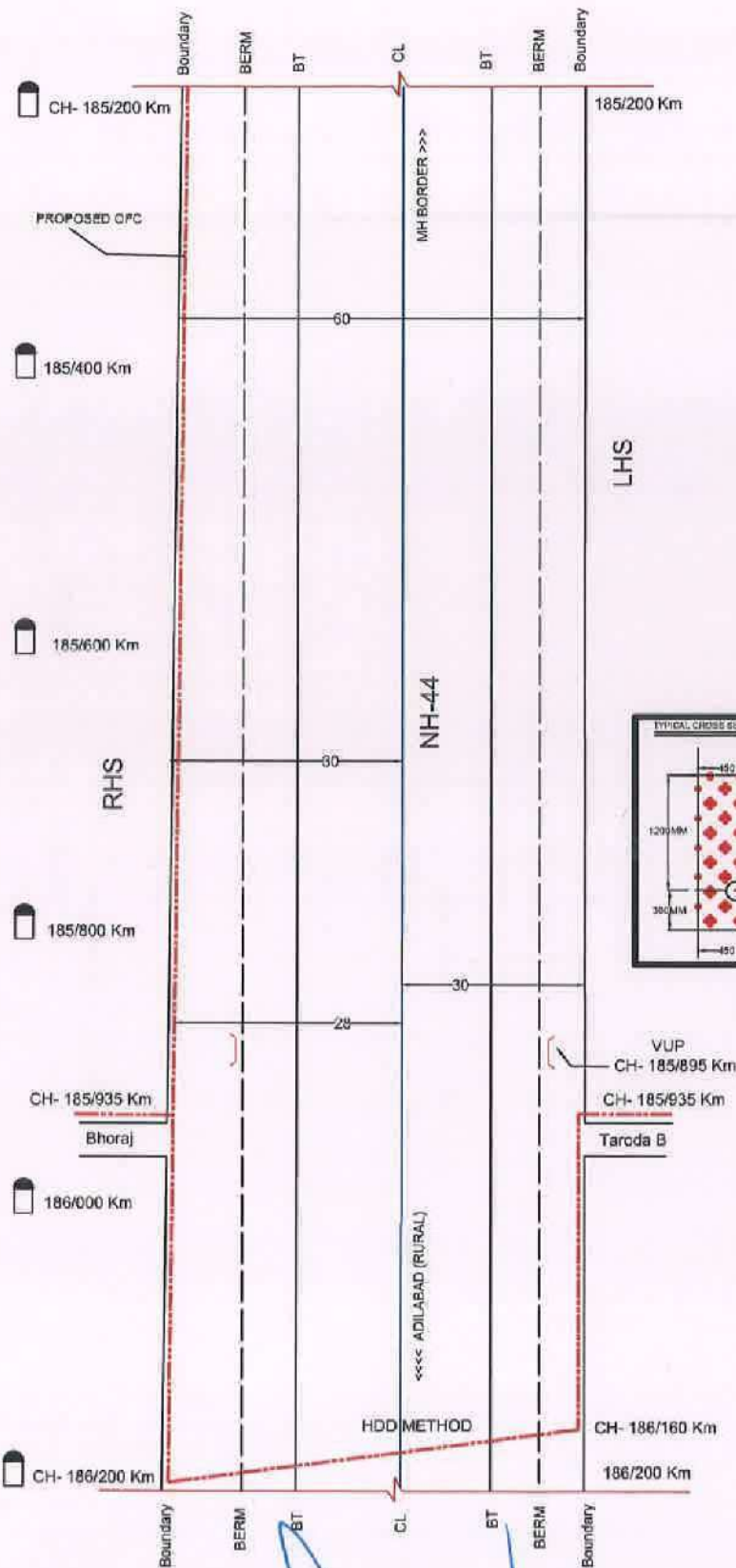
All Dimensions are in Meters

**PROJECT DIRECTOR**  
National Highways Authority of India  
PIU, NIRMAL. L





# NH-44 - 185/200 to 186/200 km



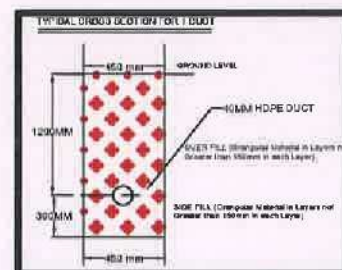
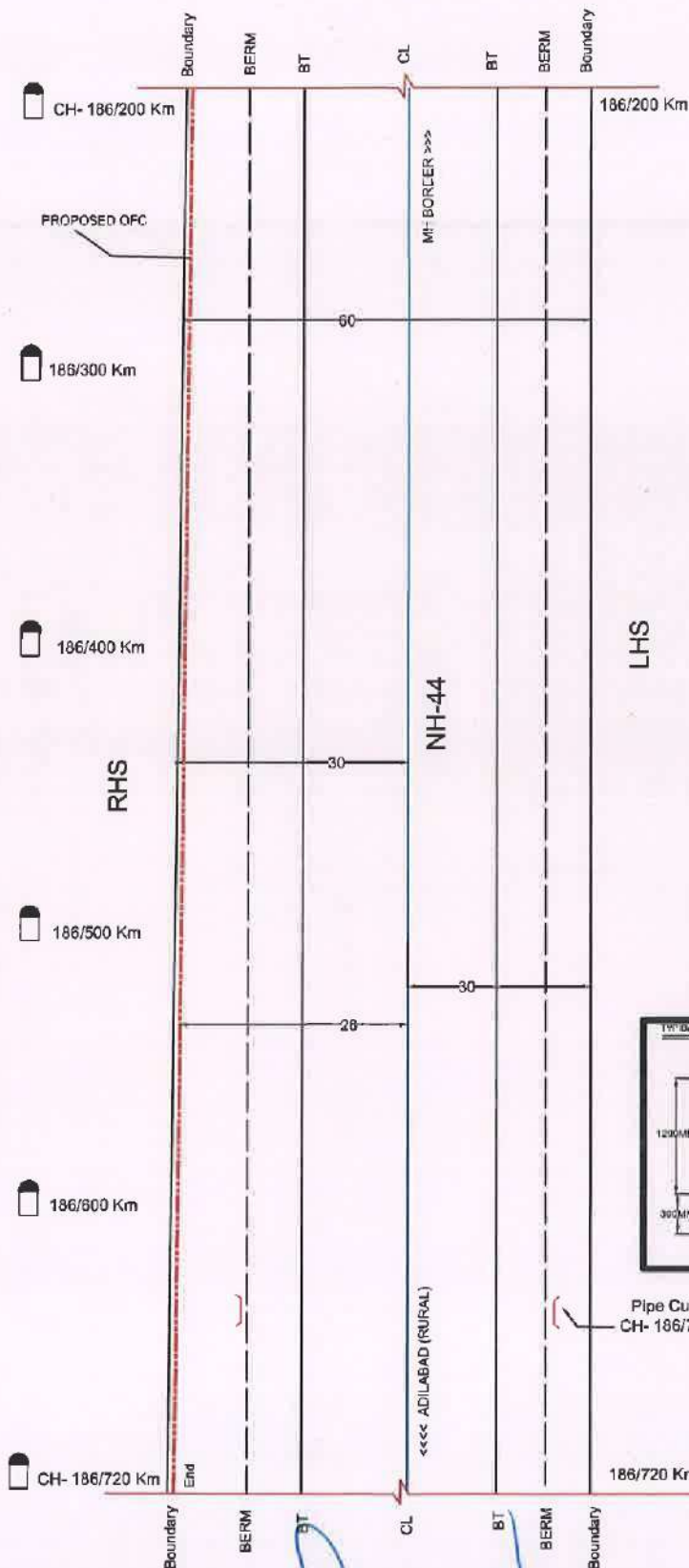
SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
PIU, NIRMAL.



# NH-44 - 186/200 to 186/720 km



LEGEND	
ROAD CL	Boundary
BERM	BT
Culvert / Bridge	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=520 M

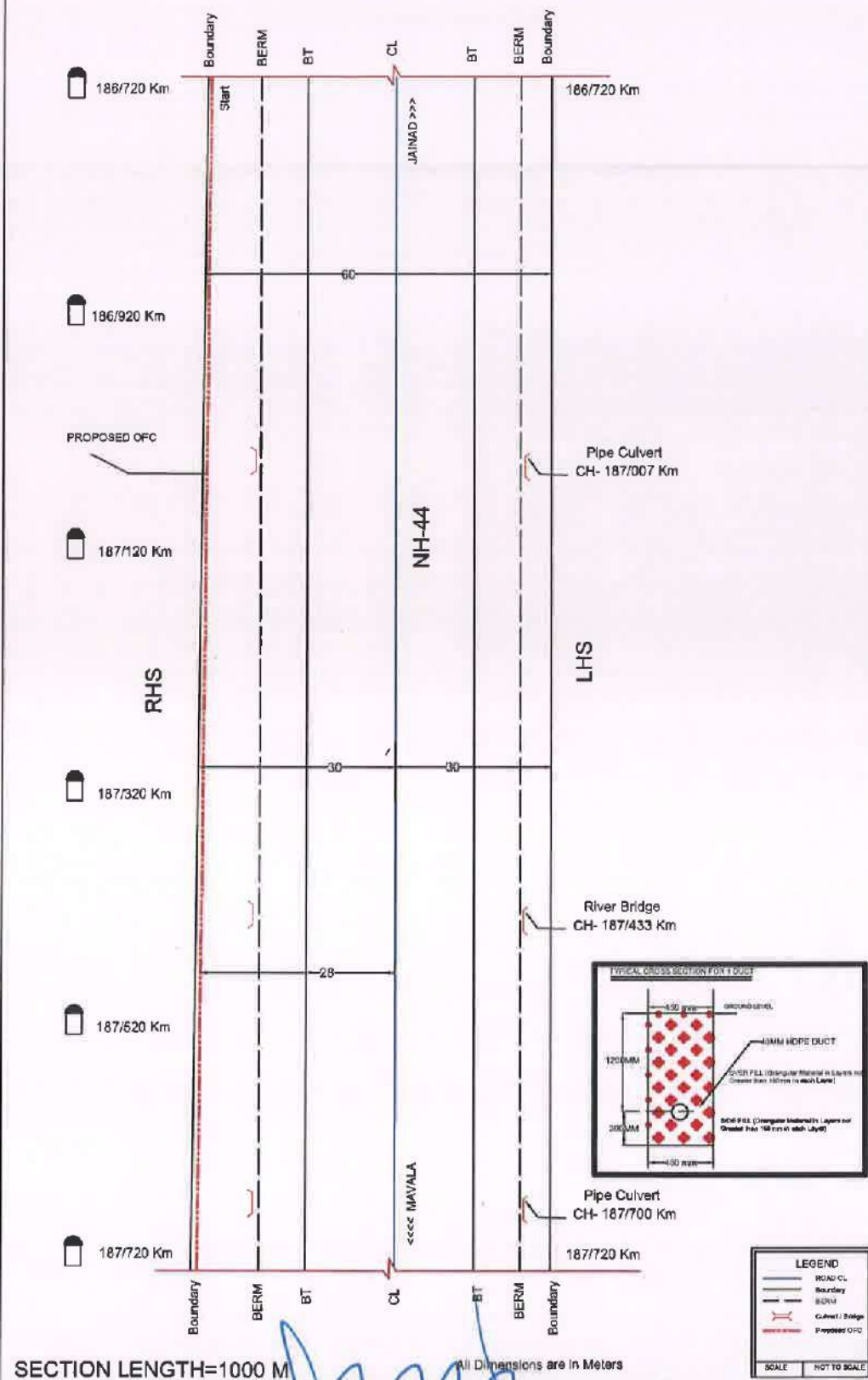
All Dimensions are in Meters

**PROJECT DIRECTOR**  
National Highways Authority of India  
P.U., NHMAL.





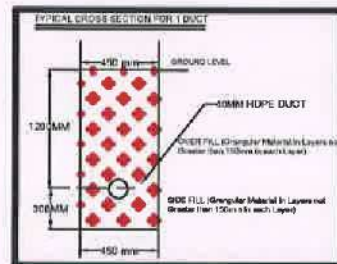
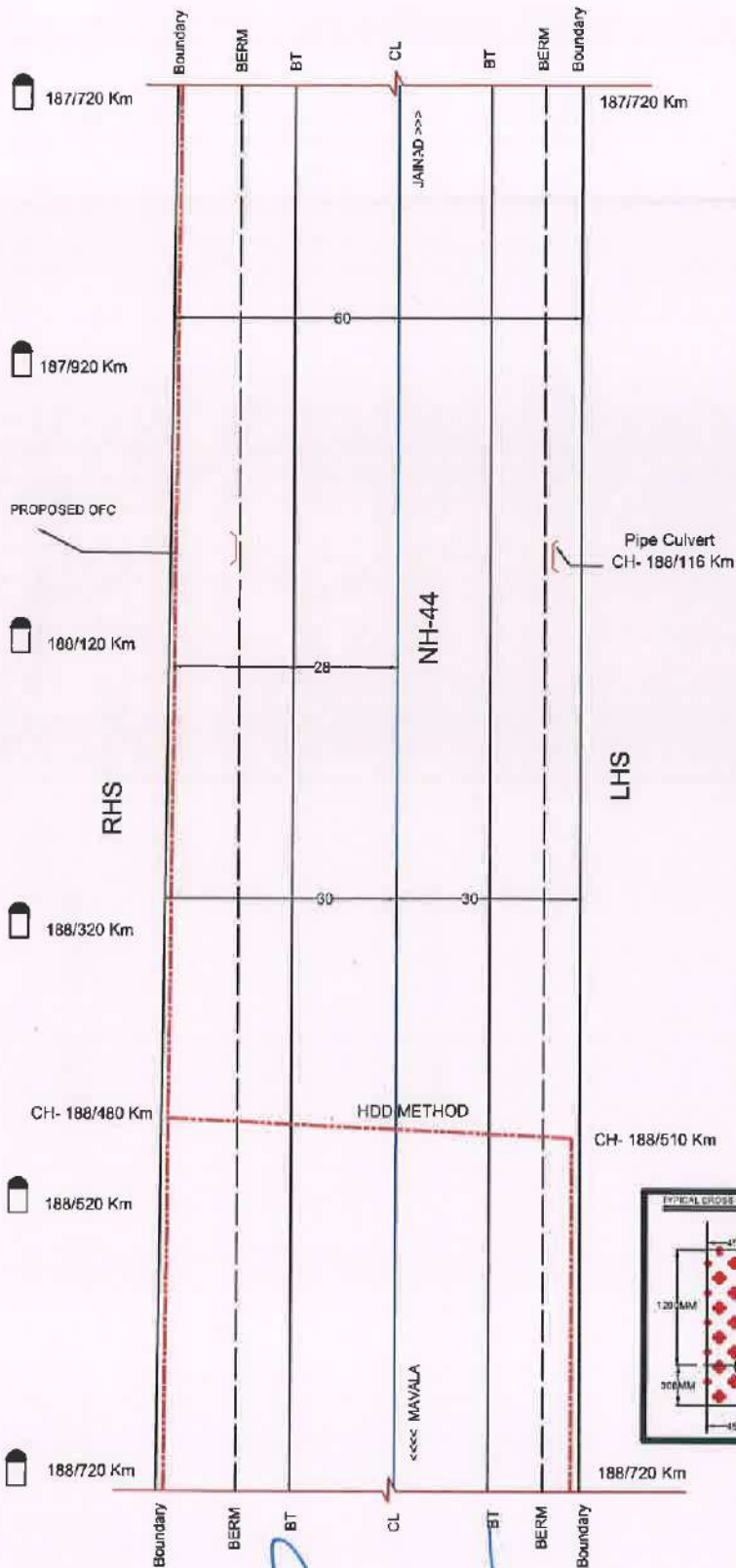
# NH-44 - 186/720 to 187/720 km



PROJECT DIRECTOR  
National Highways Authority of India  
PHU, NH&MAL.



# NH-44 - 187/720 to 188/720 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

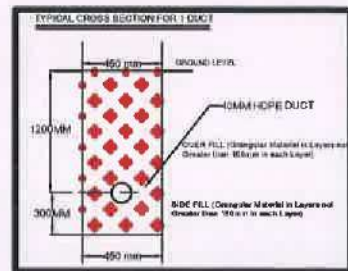
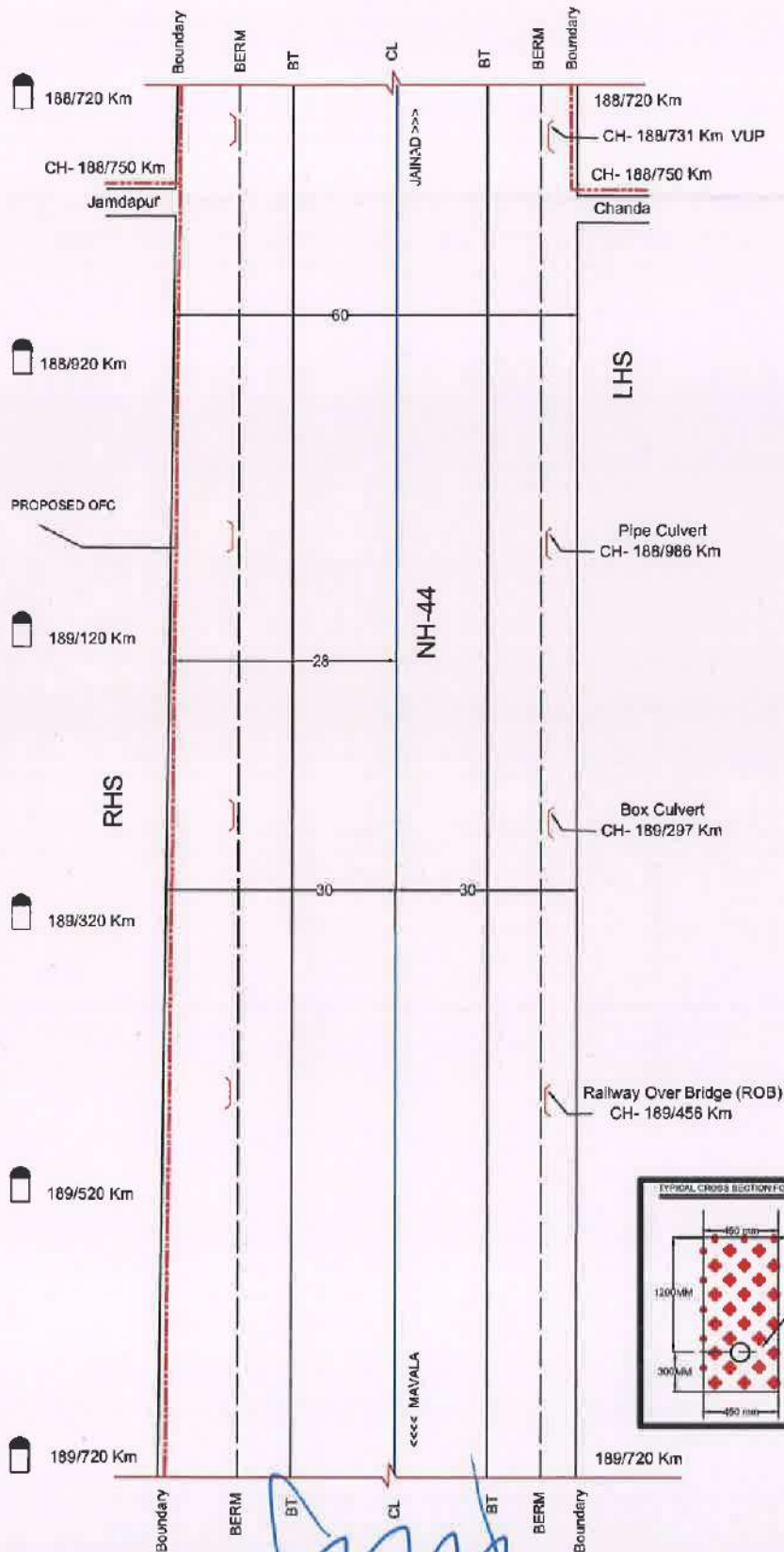
All Dimensions are in Meters

**PROJECT DIRECTOR**  
National Highways Authority of India  
PTU, NIRMAL.





# NH-44 - 188/720 to 189/720 km



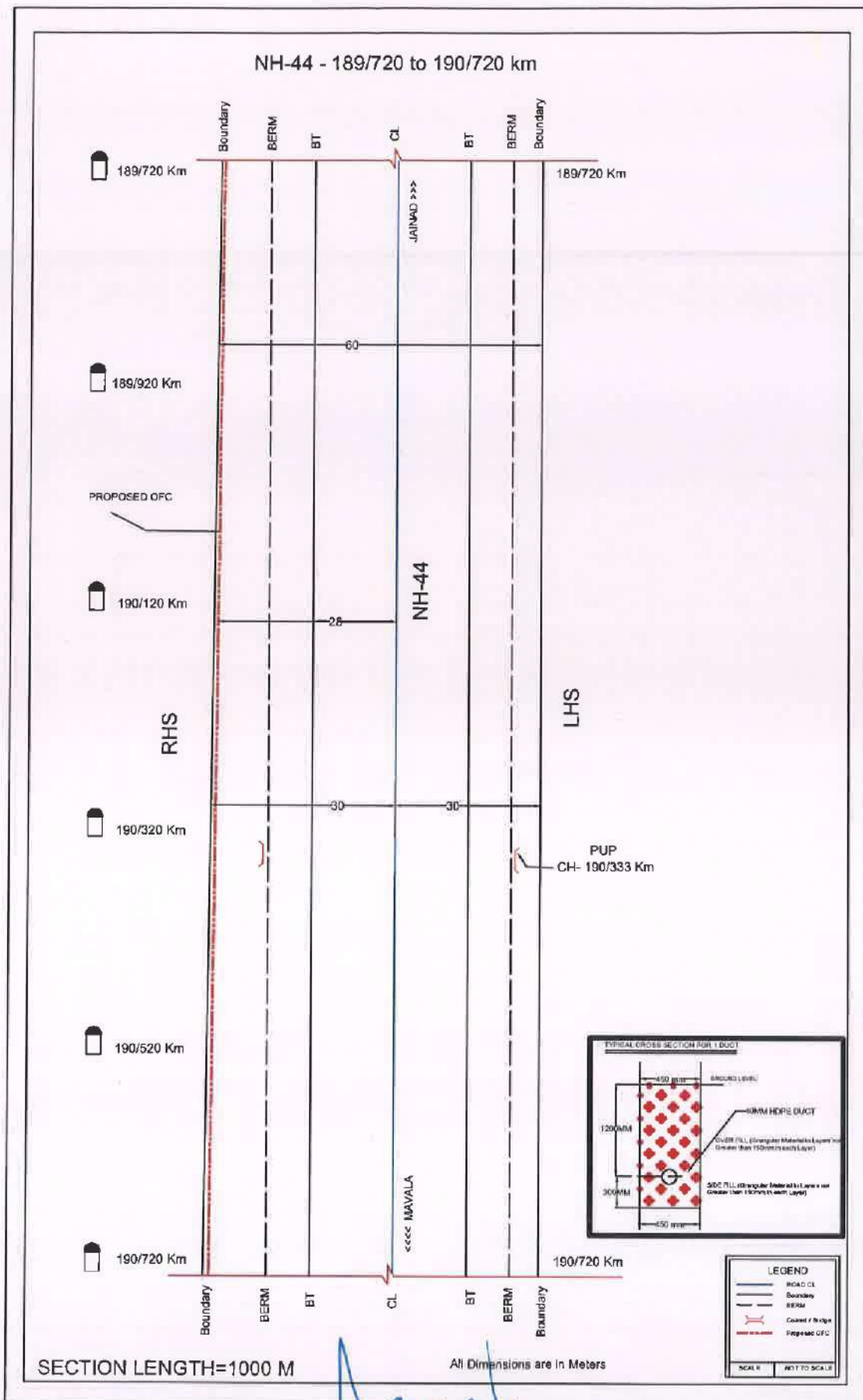
LEGEND	
—	ROAD CL
---	Boundary
---	BT
---	BERM
---	Culvert / Bridge
---	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
PHU, NIRMAL.



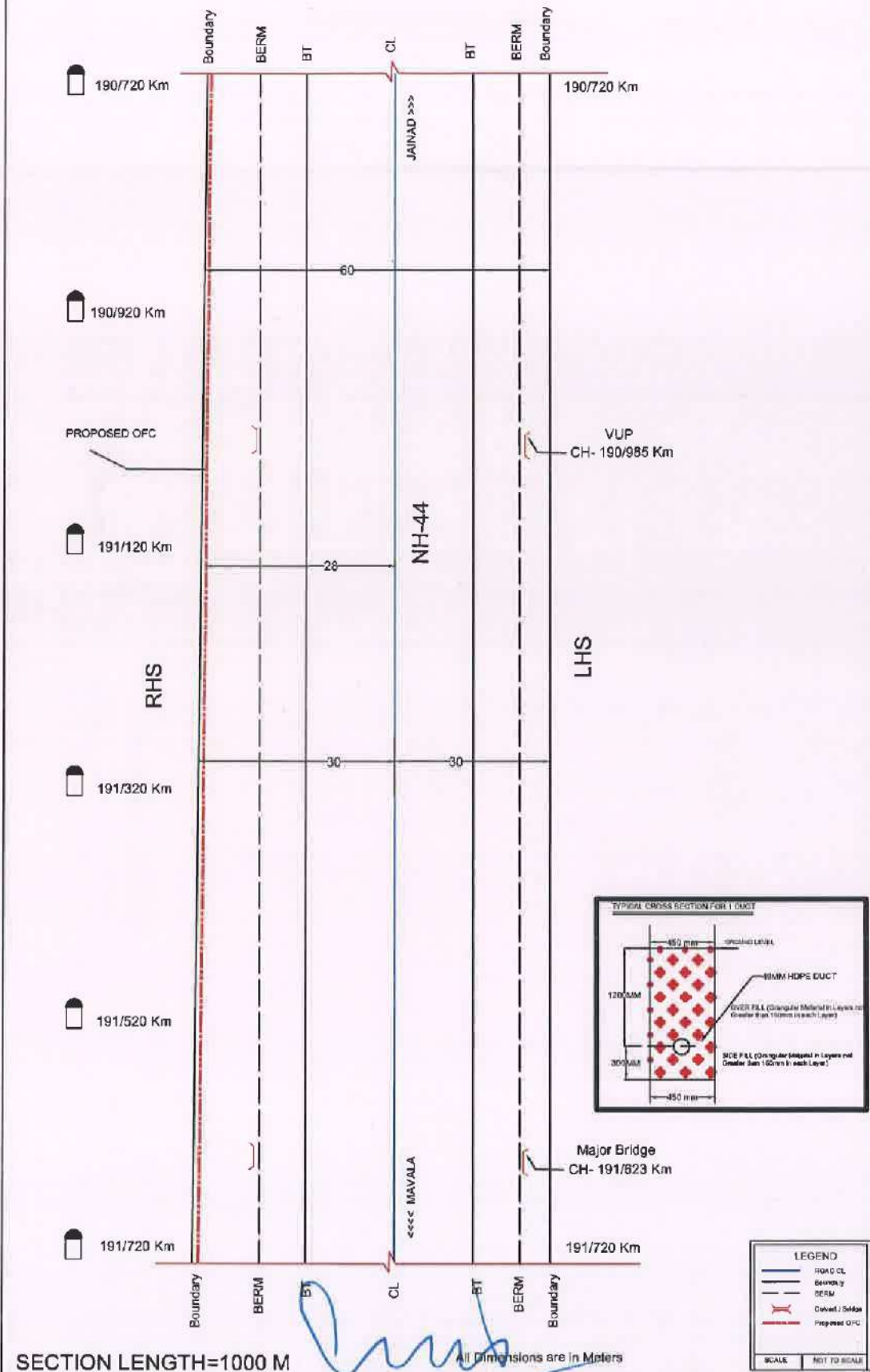


**PROJECT DIRECTOR**  
**National Highways Authority of India**  
**PHU, MUMBAI.**





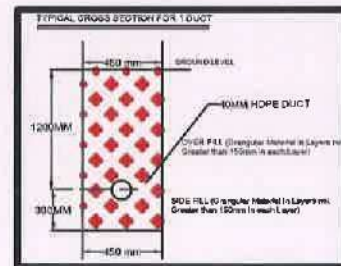
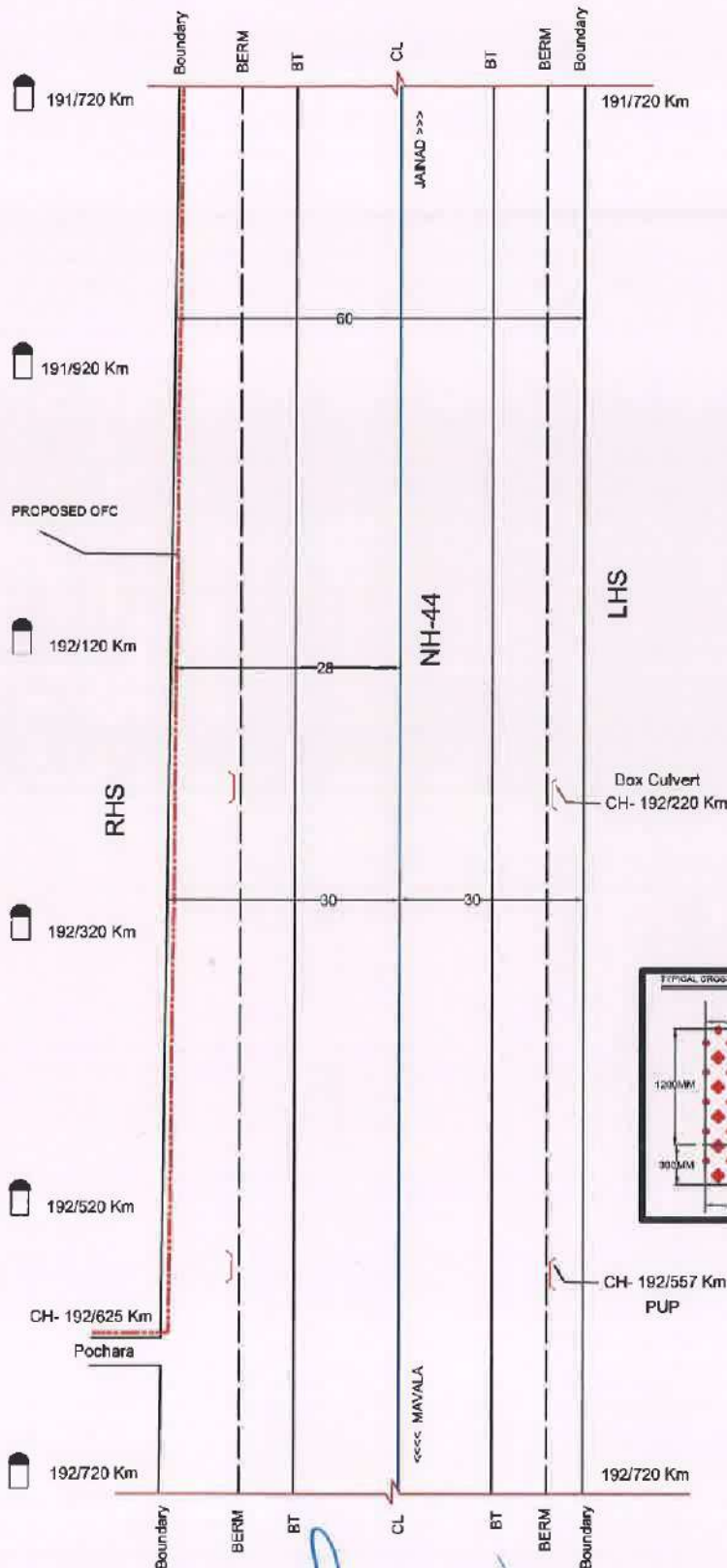
# NH-44 - 190/720 to 191/720 km



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National Highways Authority of India  
PIU, NIRMAL.



# NH-44 - 191/720 to 192/720 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

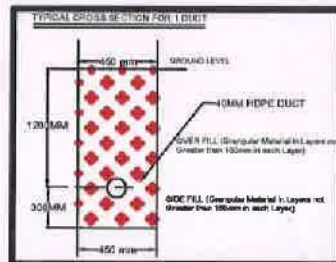
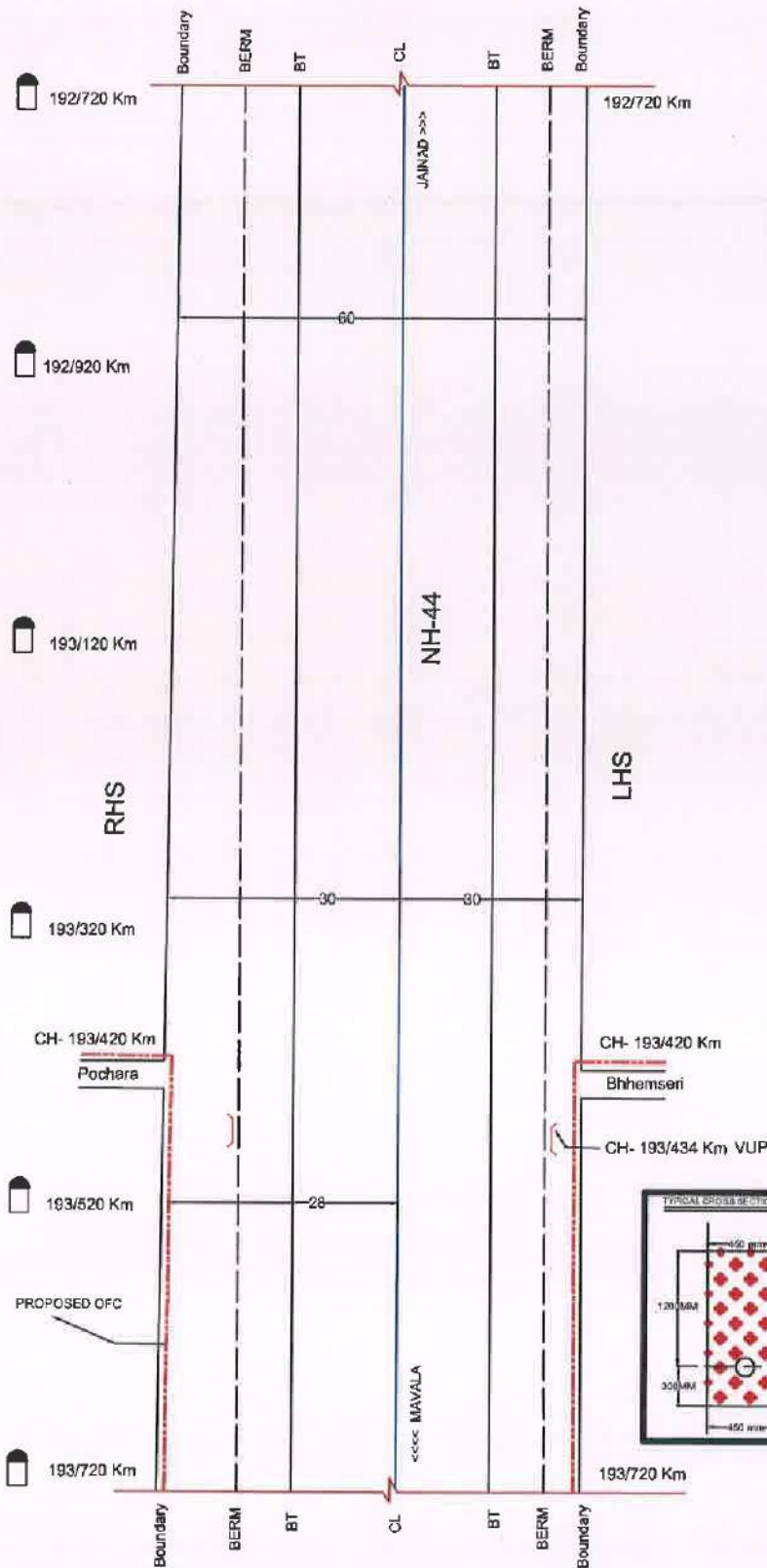
All Dimensions are in Meters

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National Highways Authority of India  
PIU, NIRMAL.





# NH-44 - 192/720 to 193/720 km



LEGEND	
ROAD CL	ROAD CL
Boundary	Boundary
BERM	BERM
Culvert / Bridge	Culvert / Bridge
Proposed OFC	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
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The drawing shows a 1000m section of NH-44. Key features include:
 

- Boundaries:** CH-194/772 Km on the left and CH-195/772 Km on the right.
- Lanes:** A central 60m lane (CL) and two 30m lanes (BT) on either side.
- Shoulders:** 4.50m wide shoulders (BERM) on both sides.
- Culverts:** Three box culverts are shown: CH-194/912 Km, CH-195/131 Km, and CH-195/518 Km.
- Labels:** 'ADILABAD (RURAL) >>>' and '<<< GUDHATHANNOOR' indicate the direction of travel.
- Inset:** A 'TYPICAL CROSS SECTION FOR 1 CULVERT' shows a 1200mm wide culvert with 450mm shoulders, 300mm base, and 150mm side slopes.
- Legend:** Defines symbols for Road CL, Boundary, BERM, Culvert/Bridge, and Proposed ORC.
- Scale:** Not to scale.

SECTION LENGTH=1000 M

All Dimensions are in Meters

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NH-44 - 196/772 to 197/772 km

Boundary BERM BT CL BT BERM Boundary

CH- 196/772 Km 196/772 Km

ADILABAD (RURAL) >>>

60

30

RHS

197/100 Km

197/300 Km

60

Box Culvert CH- 197/273 Km

197/500 Km

CH- 197/572 Km

Battisawargaon

PROPOSED OFC

CH- 197/772 Km

<<<< GUDITHATNOOR

28

VUP CH- 197/532 Km

Box Culvert CH- 197/760 Km

197/772 Km

Boundary BERM BT CL BT BERM Boundary

SECTION LENGTH=1000 M

All Dimensions are in Meters

LEGEND

- ROAD CL
- Boundary
- BERM
- Culvert / Bridge
- Proposed OFC

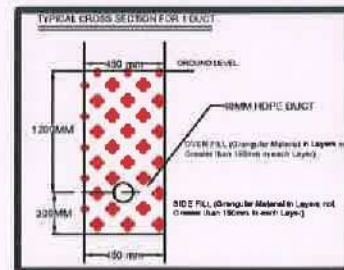
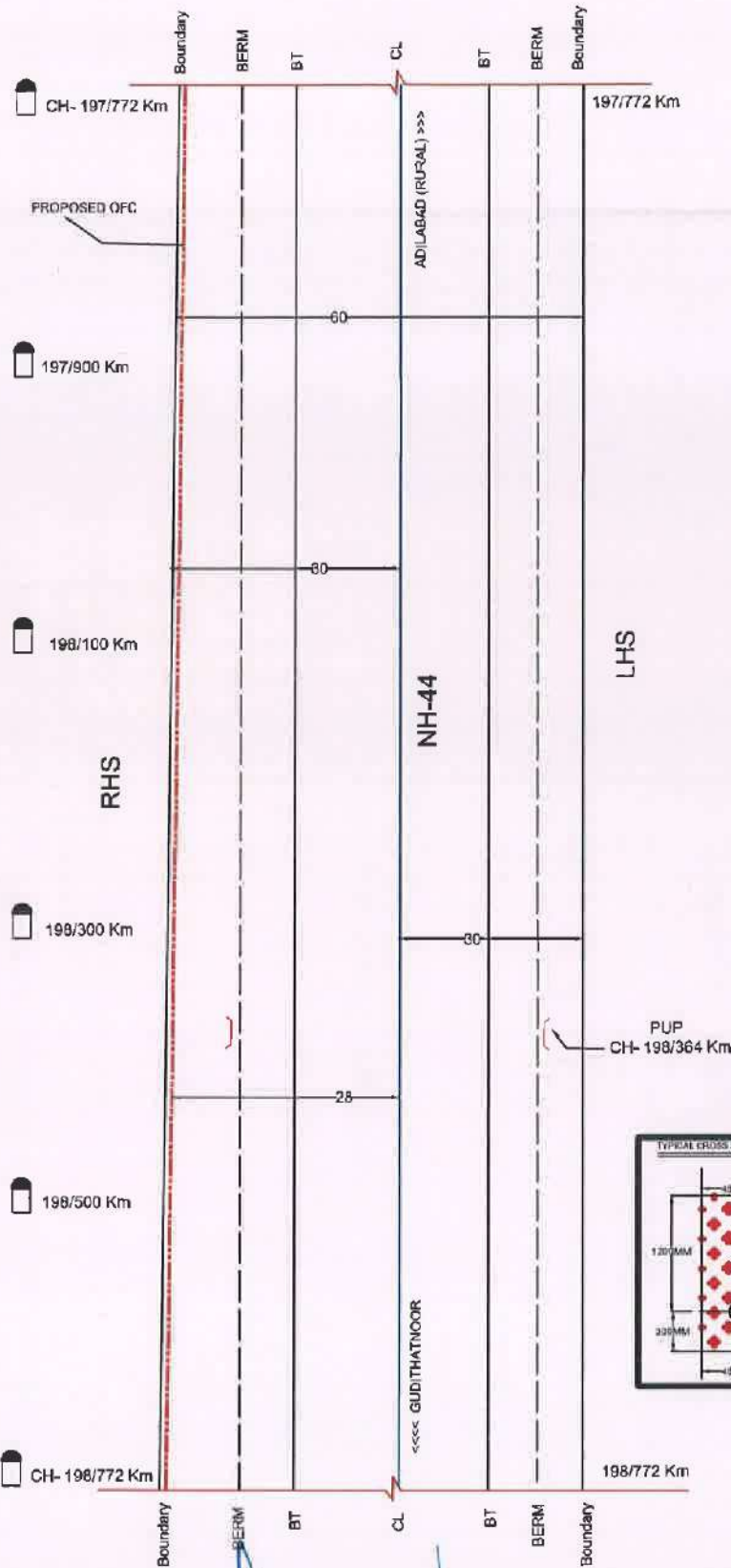
SCALE NOT TO SCALE

All Dimensions are in Meters

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# NH-44 - 197/772 to 198/772 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

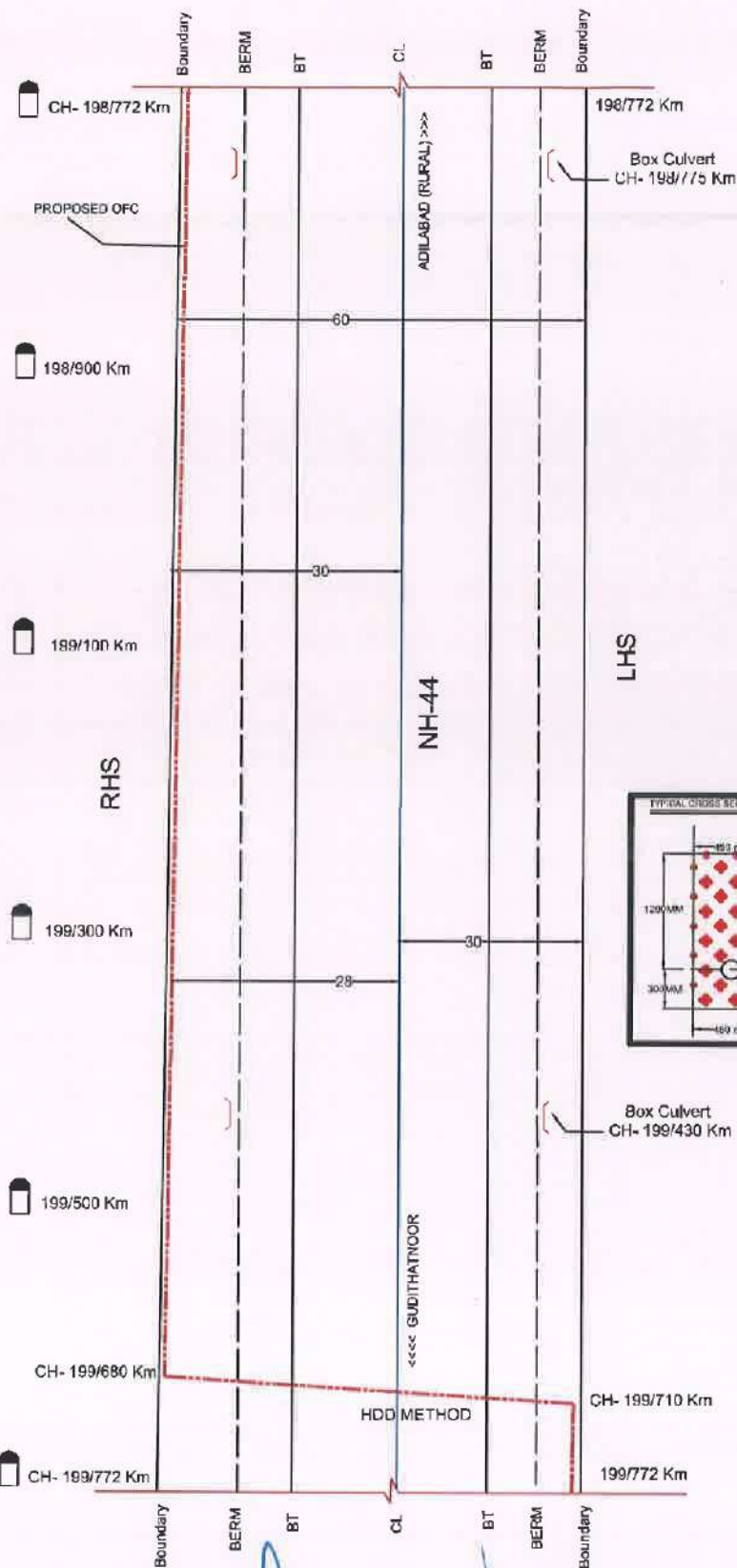
All Dimensions are in Meters

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# NH-44 - 198/772 to 199/772 km



SECTION LENGTH=1000 M

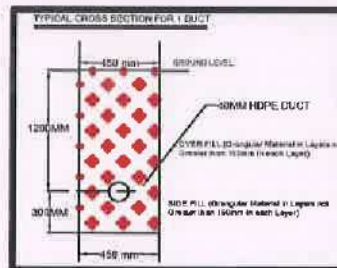
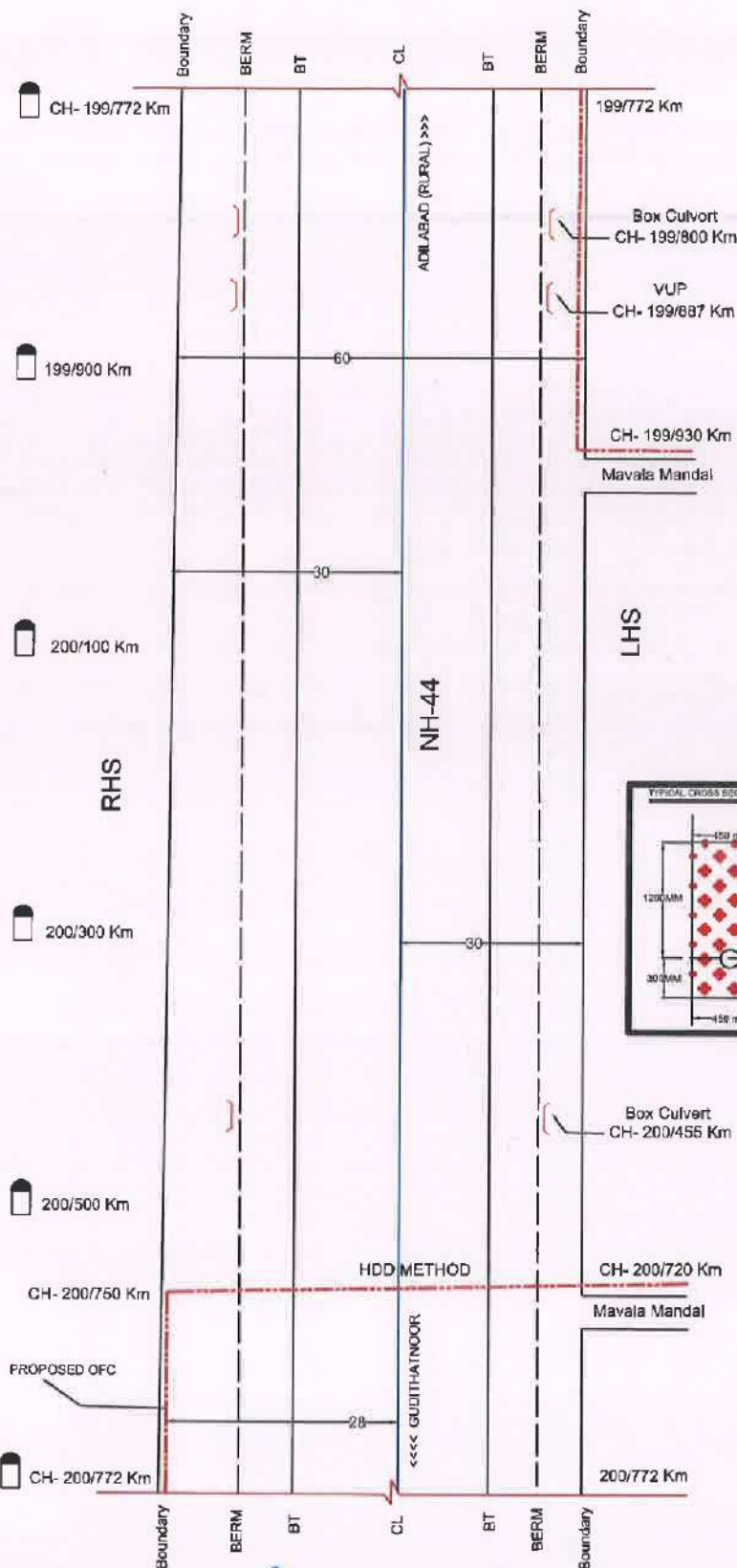
All Dimensions are in Meters



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# NH-44 - 199/772 to 200/772 km



LEGEND	
	ROAD CL
	Secondary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

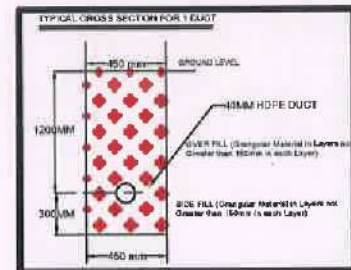
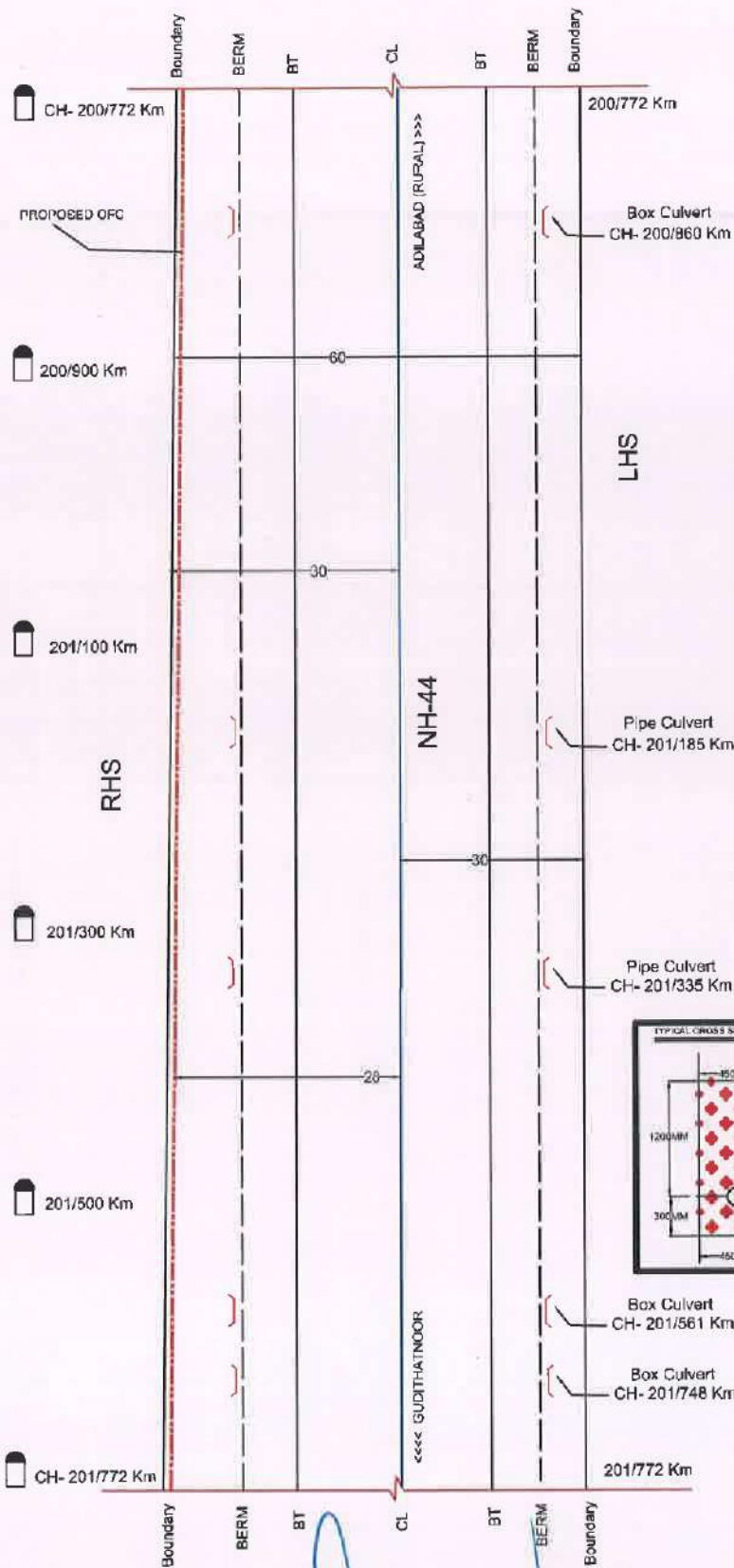
All Dimensions are in Meters

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# NH-44 - 200/772 to 201/772 km



LEGEND	
ROAD CL	ROAD CL
Boundary	Boundary
BERM	BERM
Culvert, Bridge	Culvert, Bridge
Proposed OFC	Proposed OFC
SCALE	NOT TO SCALE

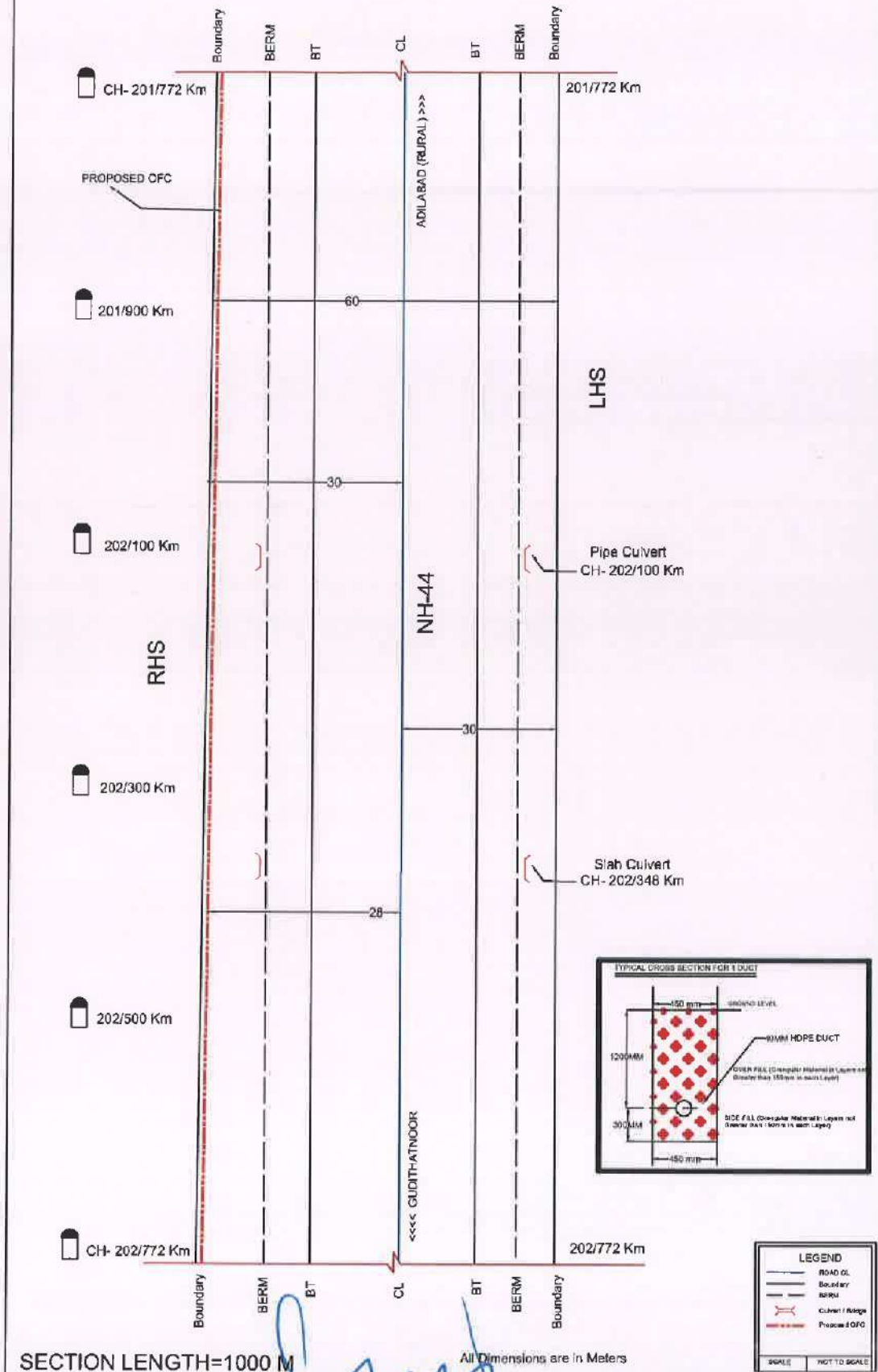
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 201/772 to 202/772 km

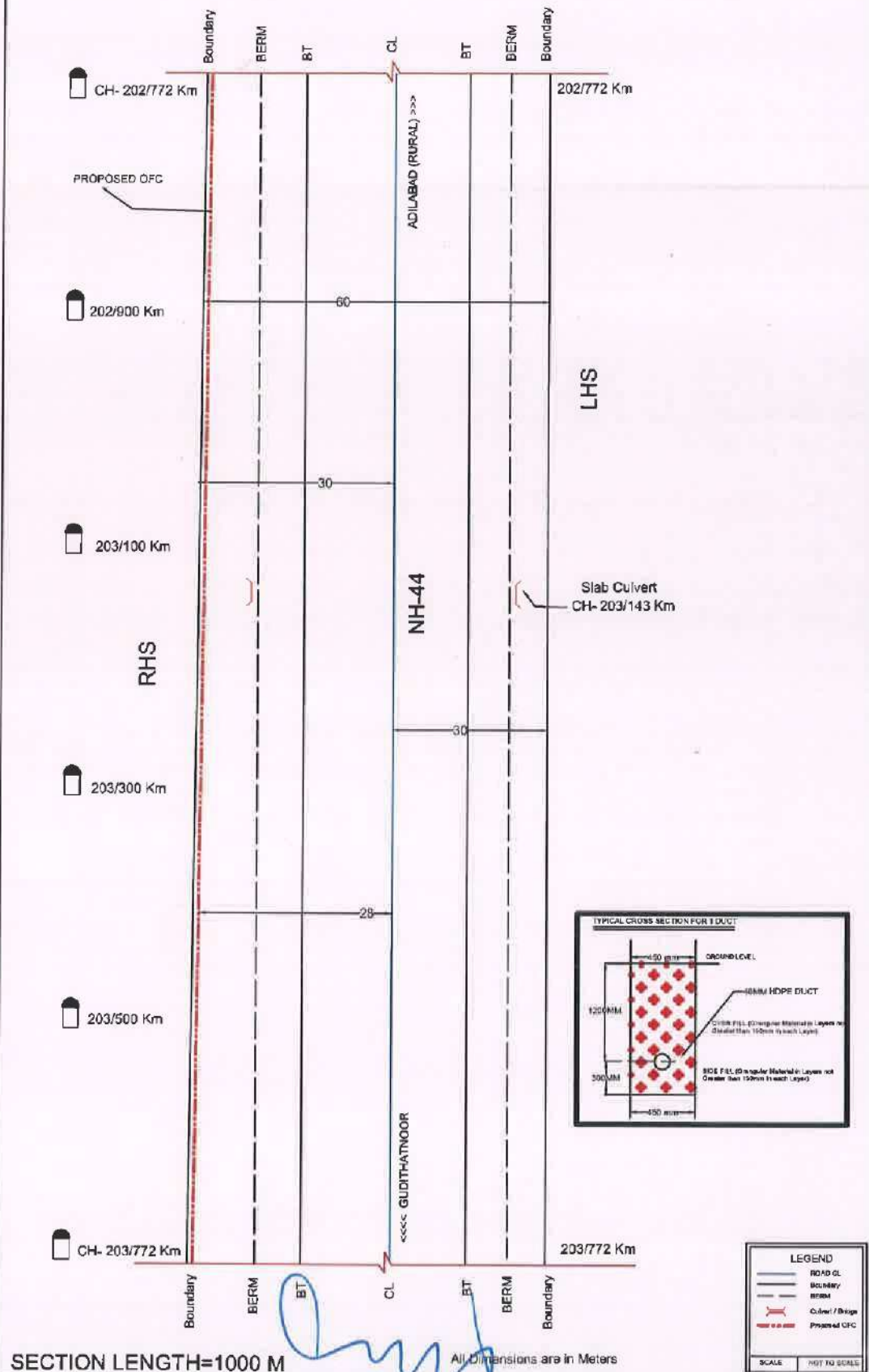


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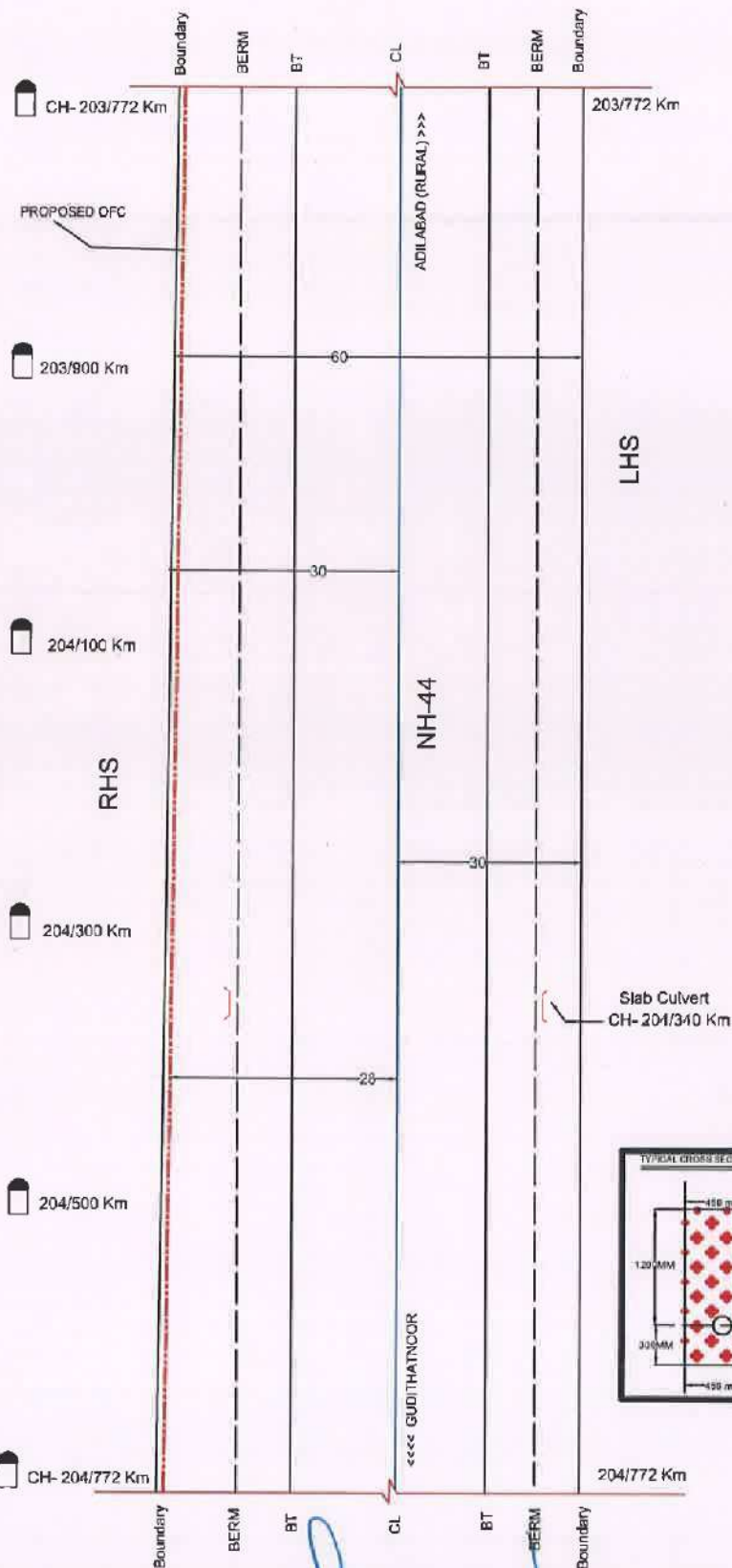
# NH-44 - 202/772 to 203/772 km



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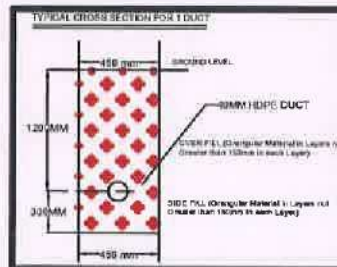


# NH-44 - 203/772 to 204/772 km



SECTION LENGTH=1000 M

All dimensions are in Meters

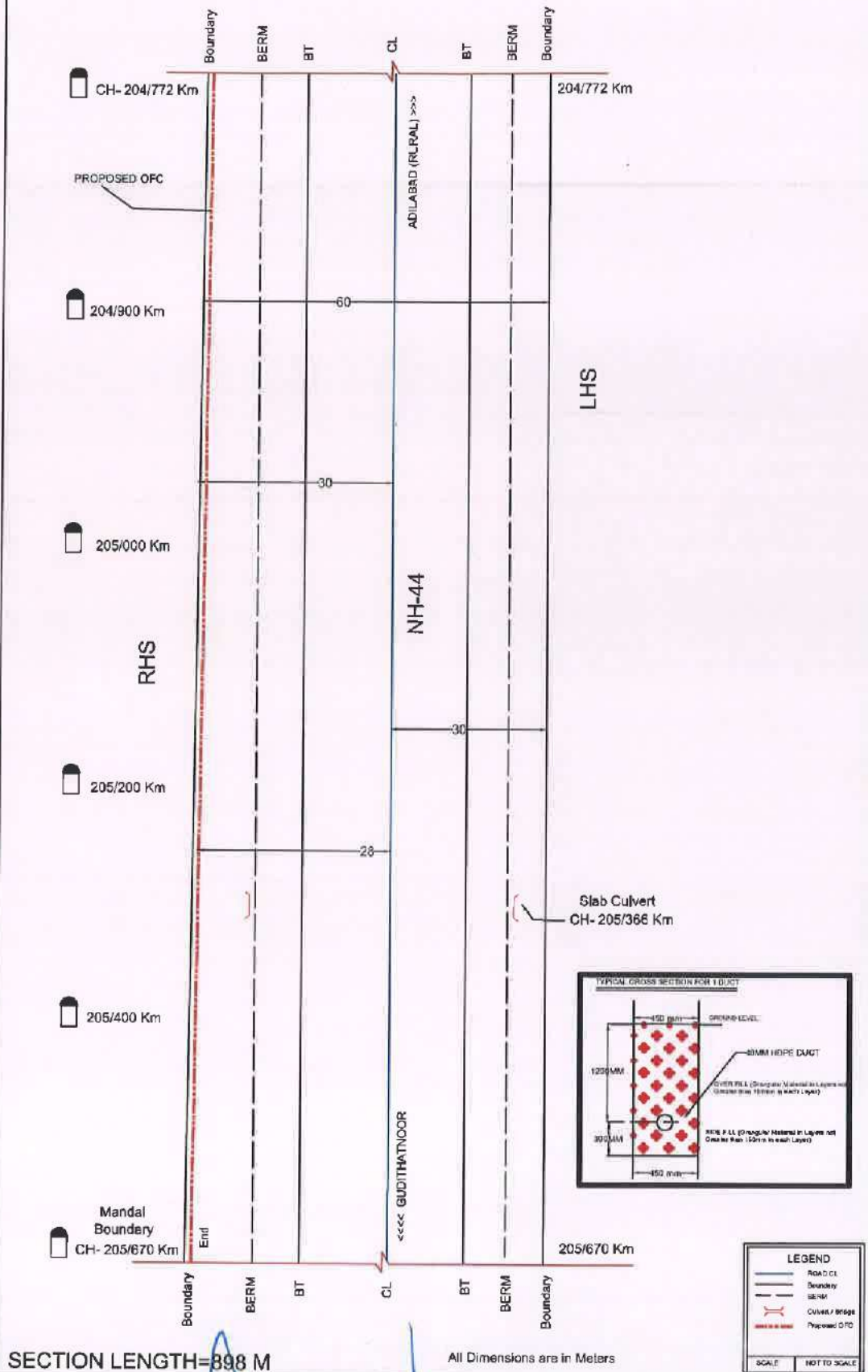


LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

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# NH-44 - 204/772 to 205/670 km



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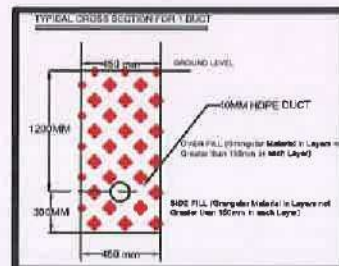


# NH-44 - 205/670 to 206/670 km



SECTION LENGTH=1000 M

All Dimensions are in Meters



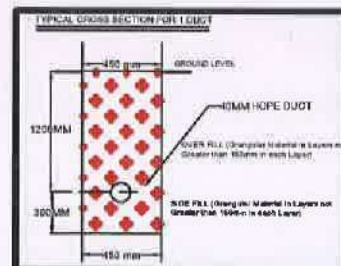
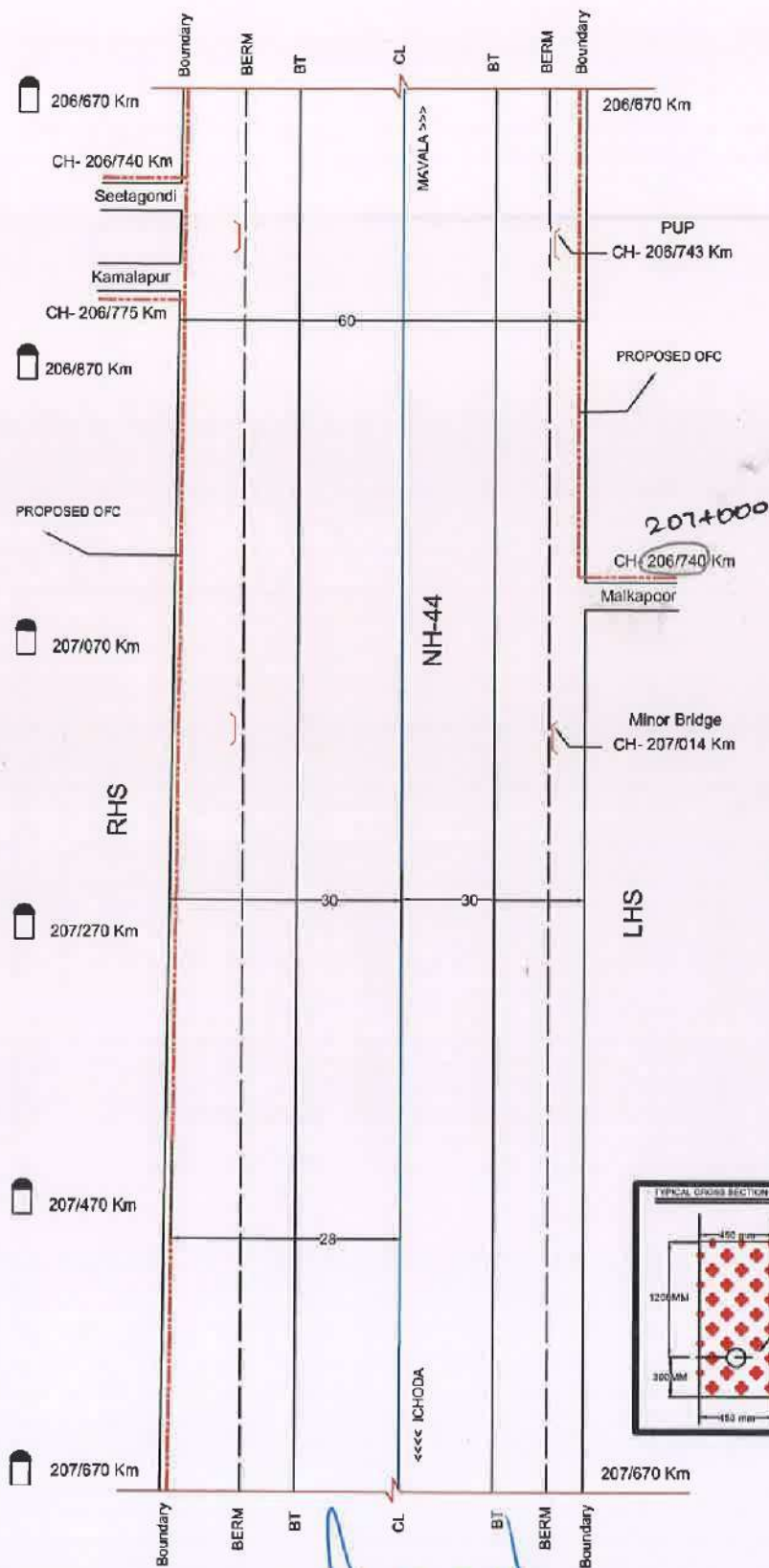
LEGEND	
—	ROAD CL
---	Boundary
---	BERM
---	BT
---	Cut and Bridge
---	Proposed O/C

SCALE: NOT TO SCALE

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# NH-44 - 206/670 to 207/670 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE: NOT TO SCALE	

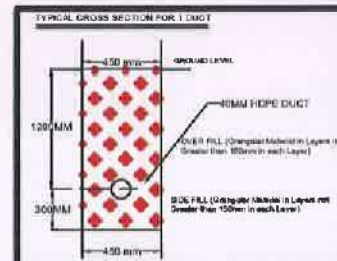
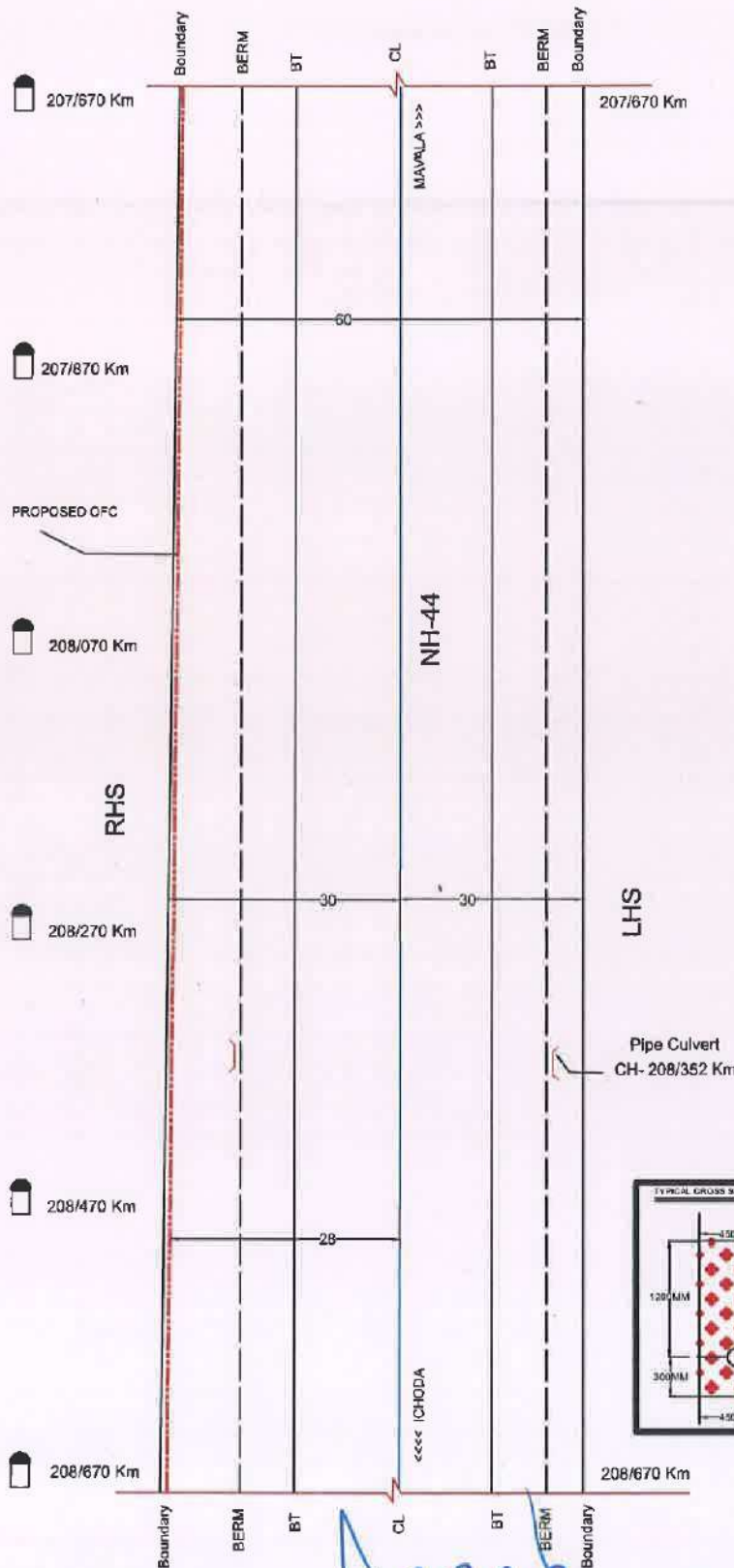
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 207/670 to 208/670 km



LEGEND	
	ROAD CL
	Boundary
	BT
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

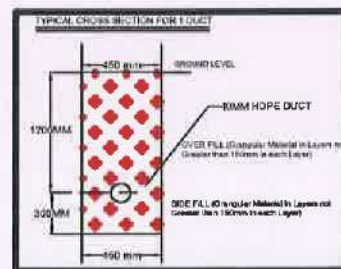
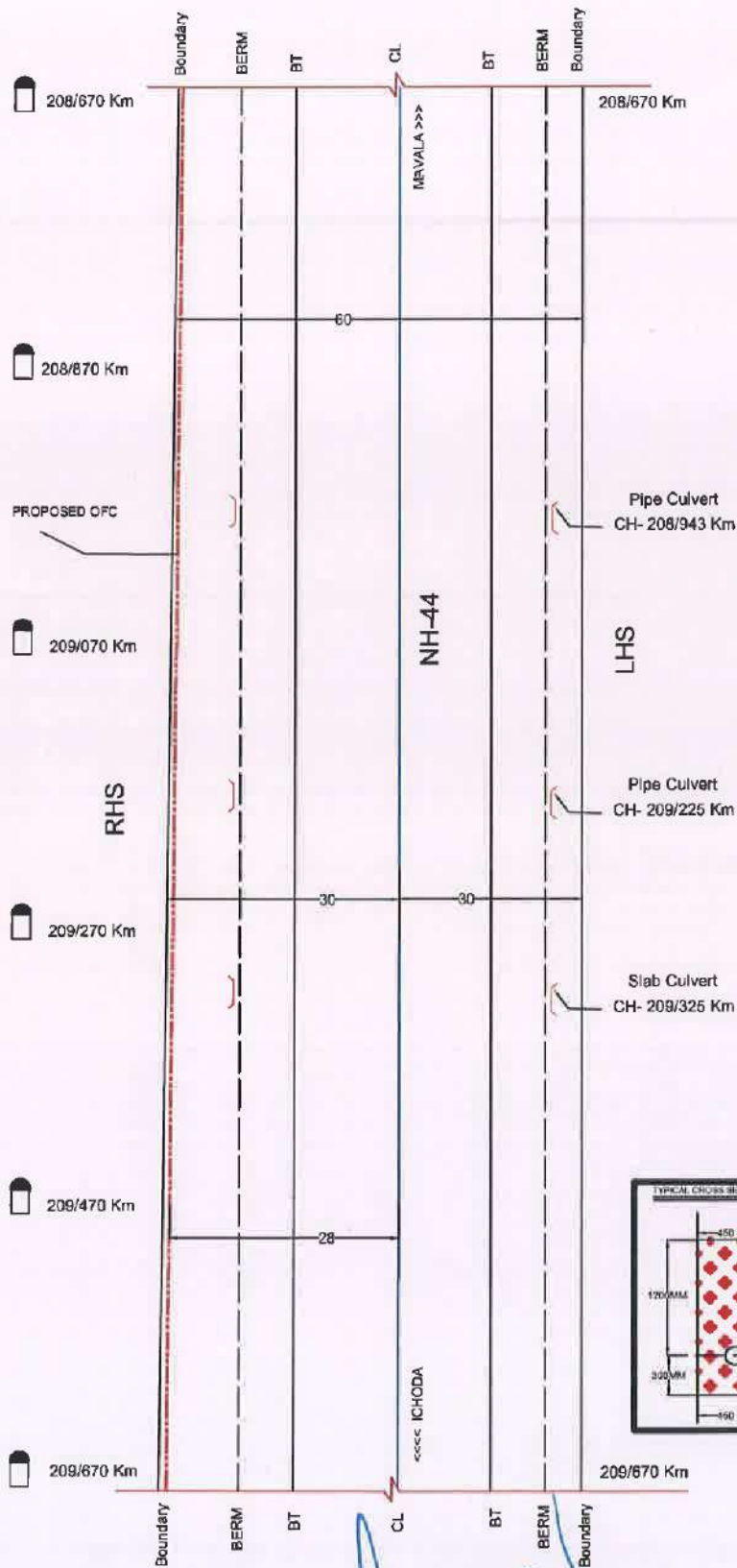
All Dimensions are in Meters

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# NH-44 - 208/670 to 209/670 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE: NOT TO SCALE	

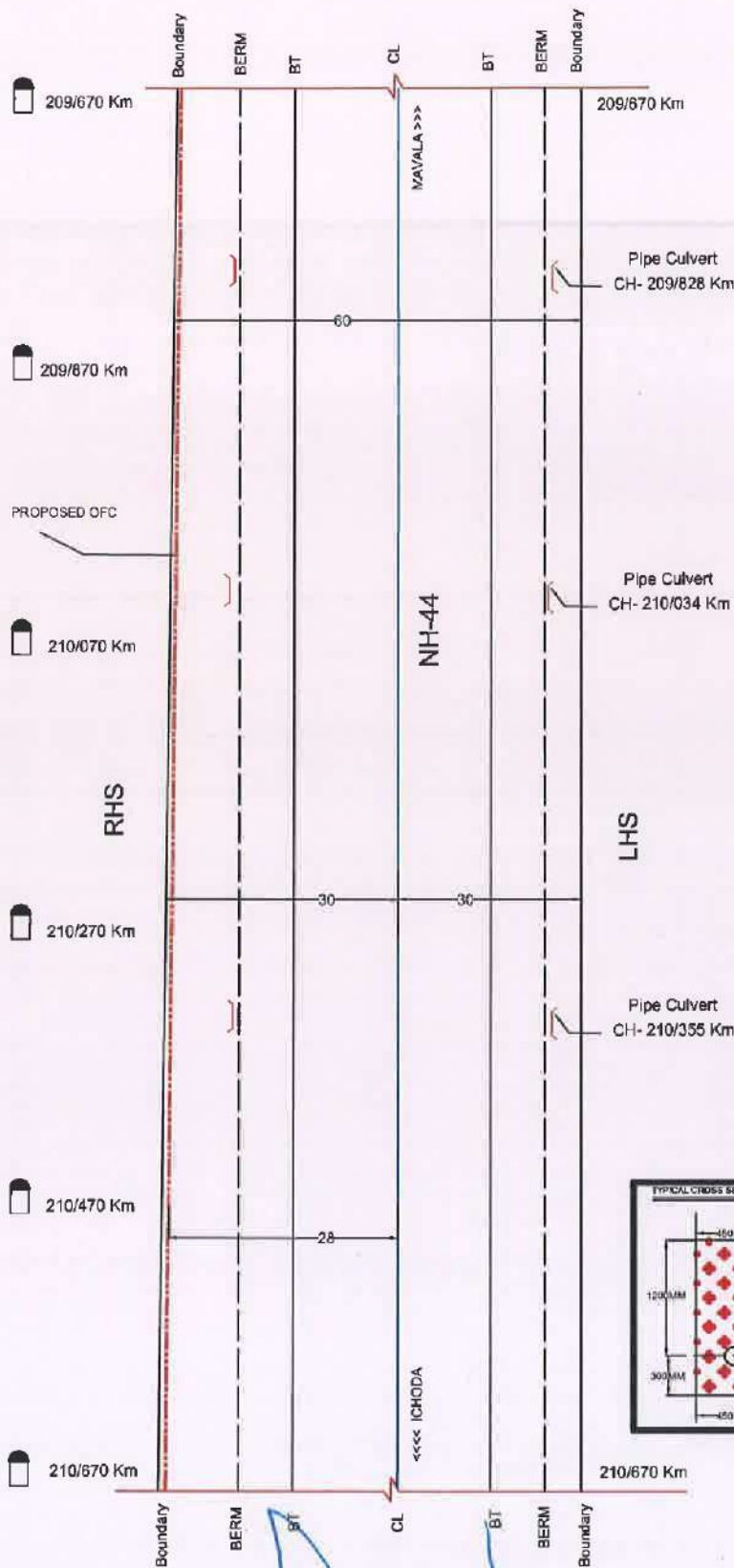
SECTION LENGTH=1000 M

All Dimensions are in Meters

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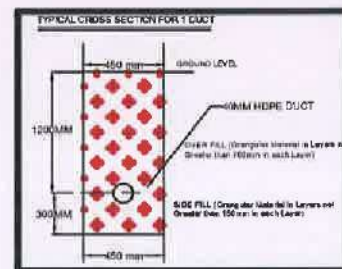


# NH-44 - 209/670 to 210/670 km



SECTION LENGTH=1000 M

All Dimensions are in Meters



LEGEND	
	ROAD CL
	Boundary
	BERM
	BT
	CL
	MAVALA >>>
	PROPOSED OFC
	PIPE CULVERT
	SCALE
	NOT TO SCALE

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All Dimensions are in Meters





NH-44 - 211/670 to 212/670 km

Boundary BERM BT CL BT BERM Boundary

CH- 211/670 Km 211/670 Km

MAVALA &&&

Pipe Culvert CH- 211/732 Km

60

PUP CH- 211/854 Km

PROPOSED CFC

212/070 Km

CH- 212/130 Km

Machapur

212/270 Km

30 30

RHS LHS

VUP CH- 212/395 Km

CH- 212/400 Km

Mankapoor

212/470 Km

28 28

212/670 Km

ICHOODA

SECTION LENGTH=1000 M

All Dimensions are in Meters

LEGEND

- ROAD CL
- Boundary
- BERM
- Culvert / Bridge
- Proposed CFC

SCALE: NOT TO SCALE

TYPICAL CROSS SECTION FOR 1 LANE

1200MM

300MM

100MM

GROUND LEVEL

100MM HIDE OUT

OVER FILL (Compacted Material is Laid on the Ground level 100mm at each layer)

SIDE FILL (Compacted Material is Laid on the Ground level 100mm at each layer)

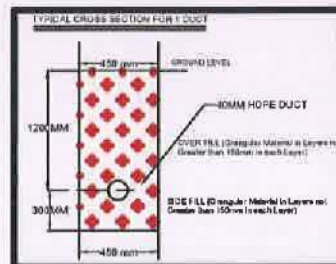
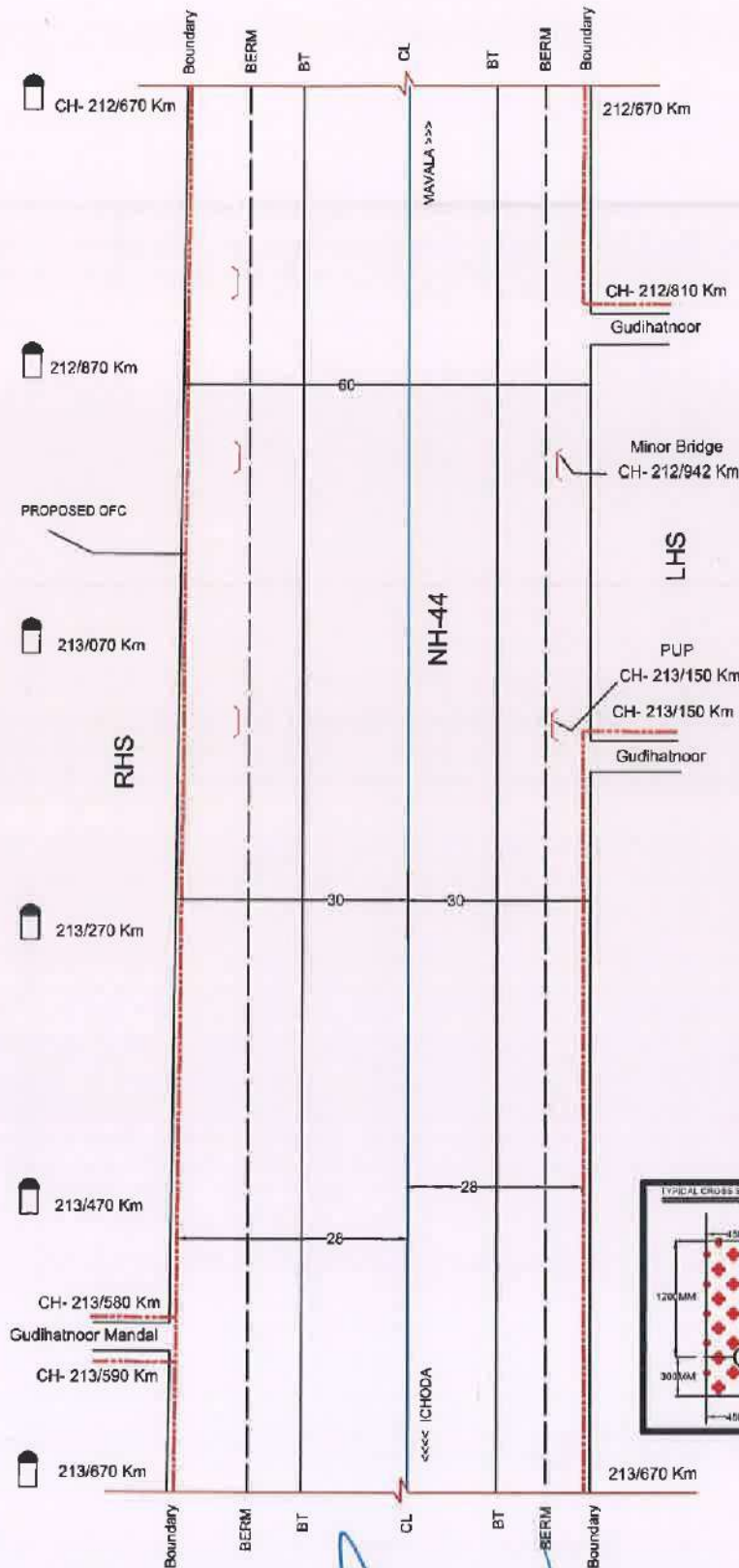
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 212/670 to 213/670 km



LEGEND	
	ROAD CL
	Boundary
	SEMI
	Cutvert / Bridge
	Proposed OFC
SCALE: NOT TO SCALE	

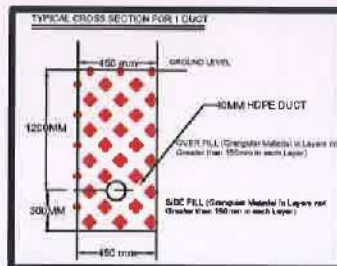
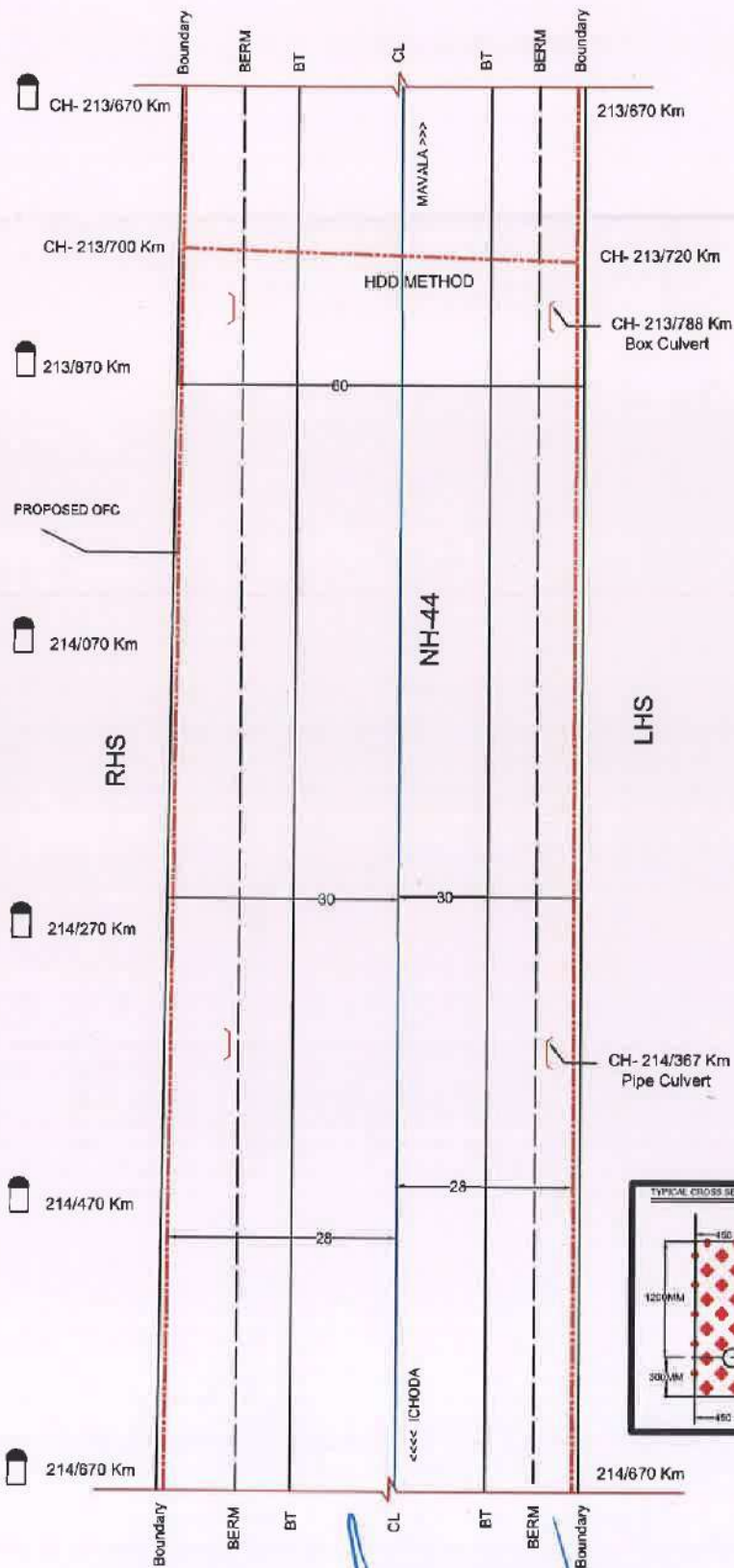
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 213/670 to 214/670 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	BT
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

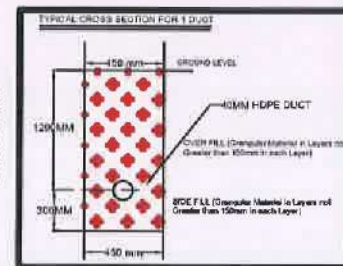
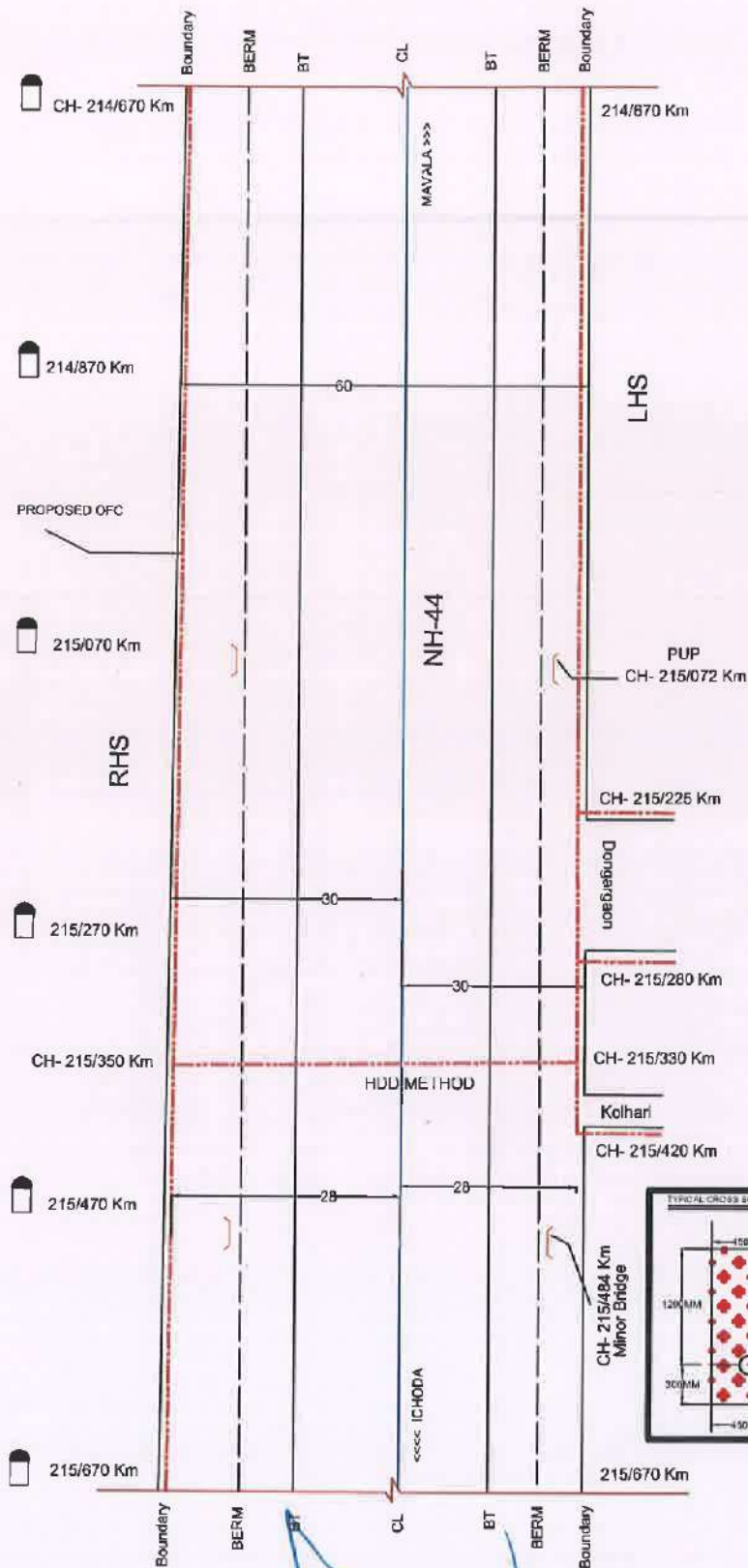
All Dimensions are in Meters

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# NH-44 - 214/670 to 215/670 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Center Bridge
	Proposed OFC
SCALE	NOT TO SCALE

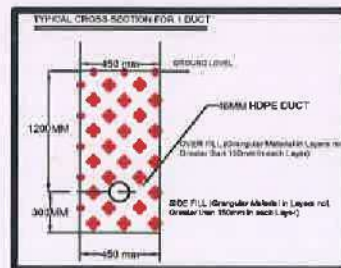
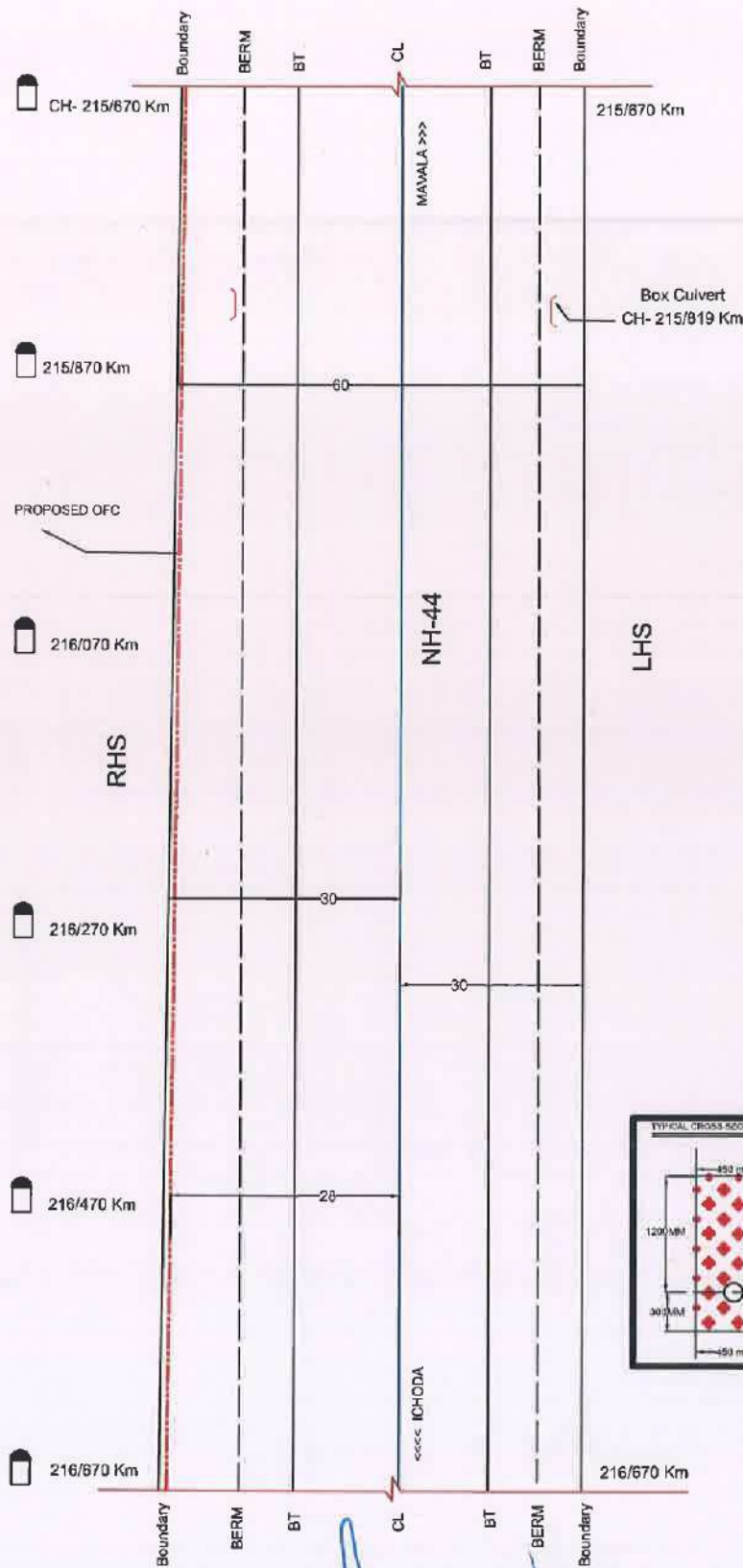
SECTION LENGTH=1000 M

All Dimensions are in Meters

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PHU, NHRAAL.



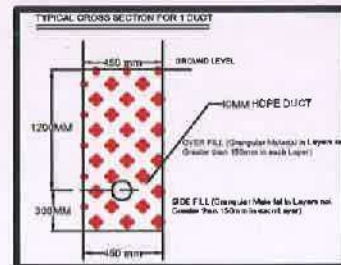
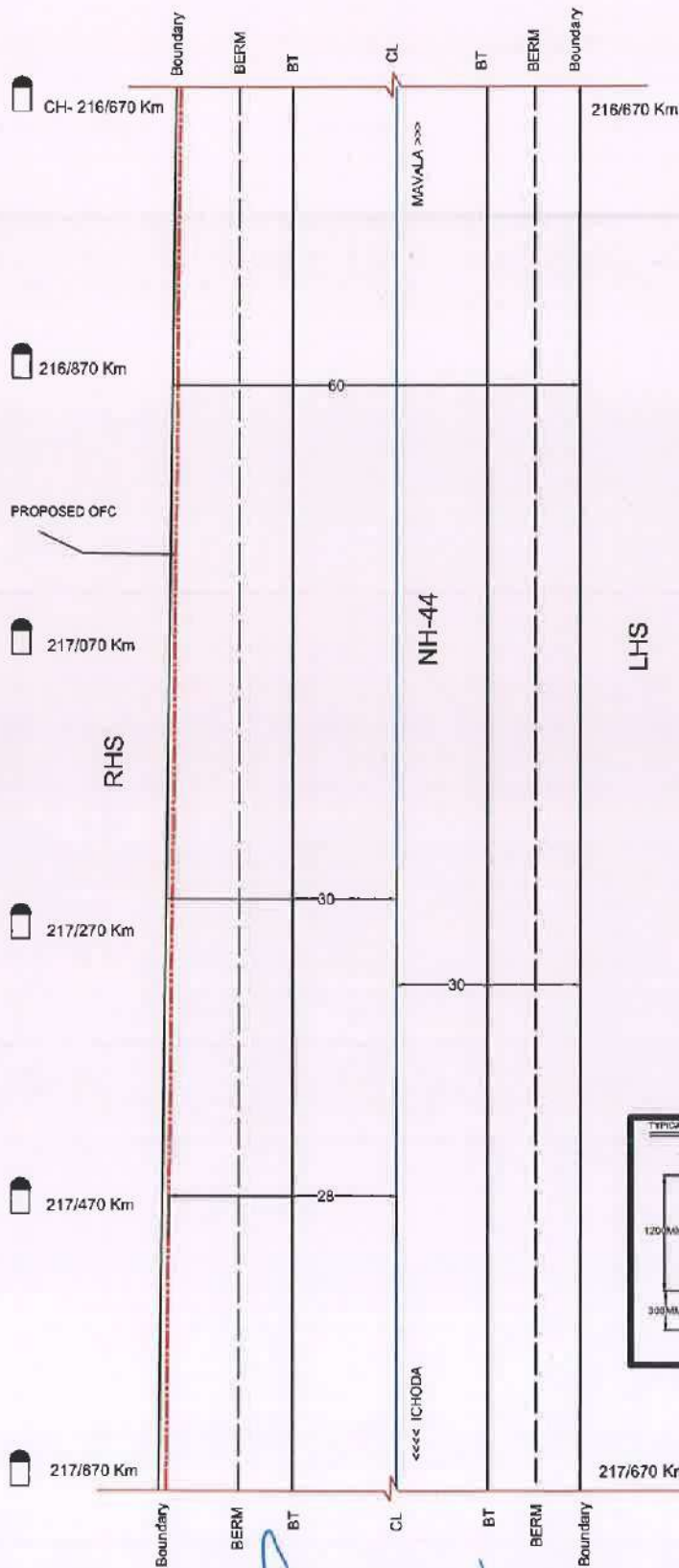
# NH-44 - 215/670 to 216/670 km



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# NH-44 - 216/670 to 217/670 km



LEGEND	
	BOUND CL
	Boundary
	BERM
	Cutback / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

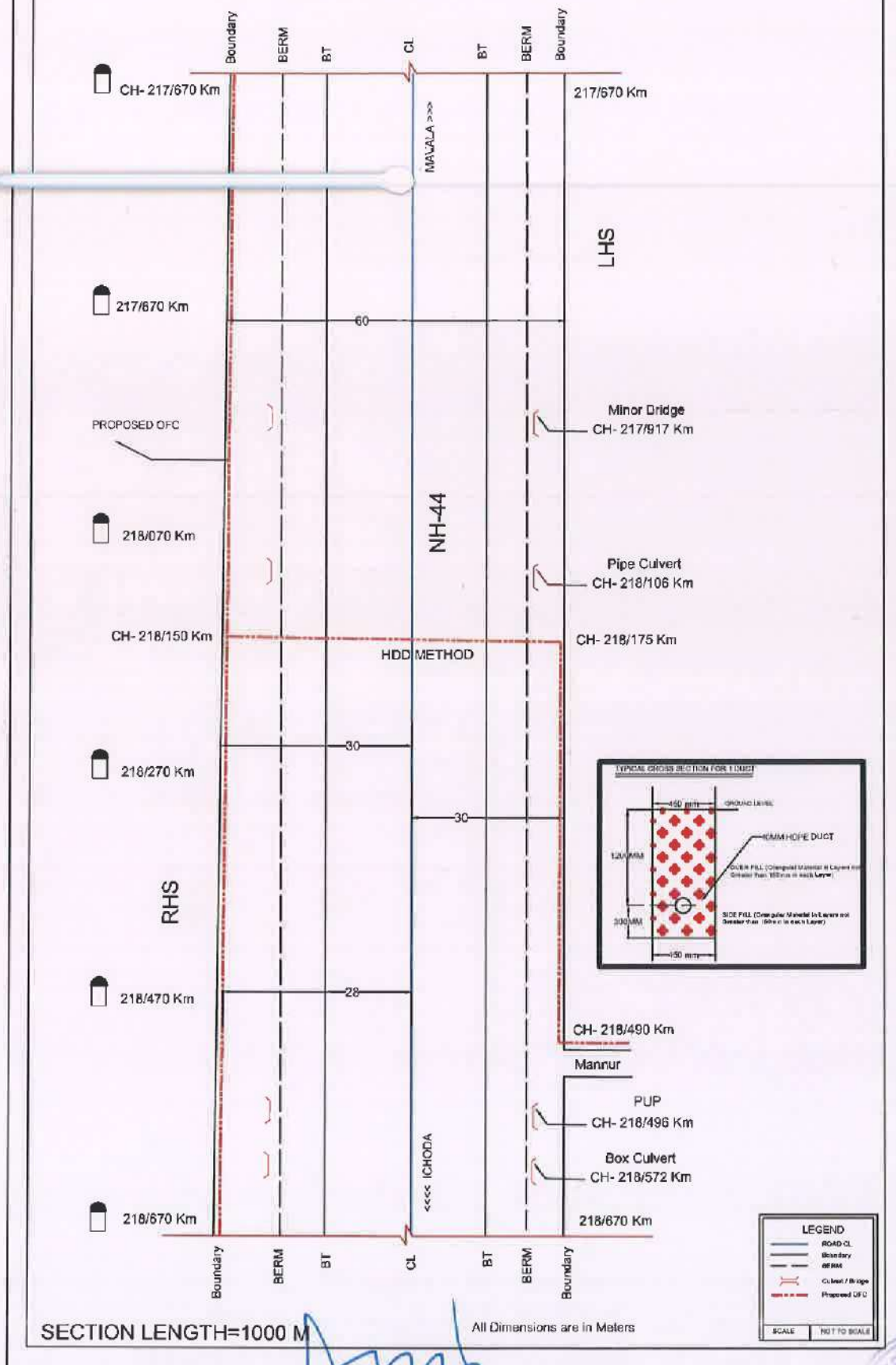
All Dimensions are in Meters

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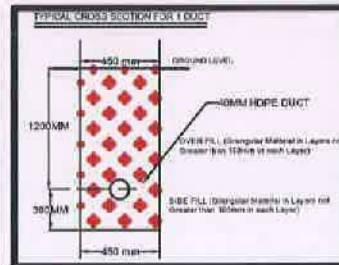
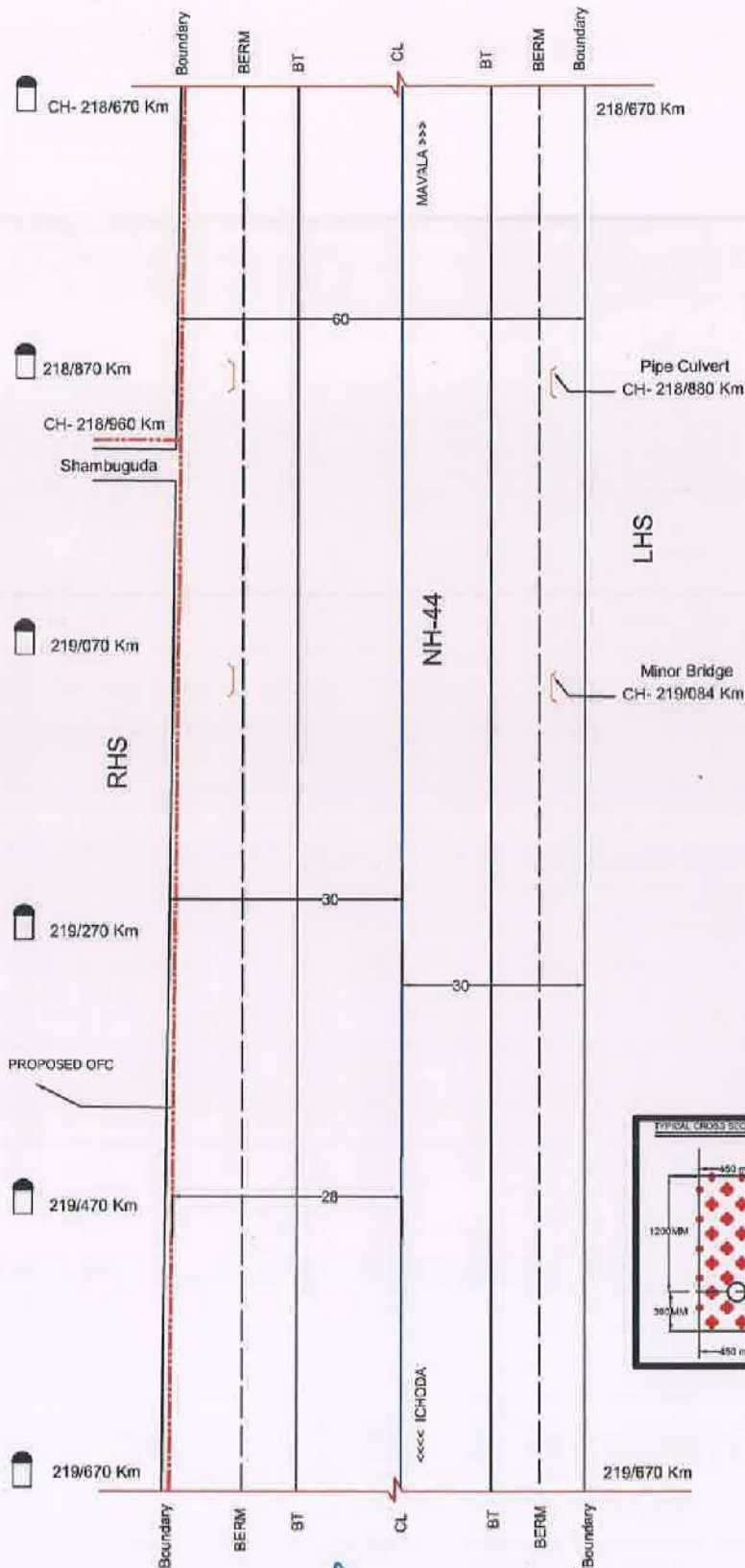
# NH-44 - 217/670 to 218/670 km



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P.W. NIRMAL.



# NH-44 - 218/670 to 219/670 km



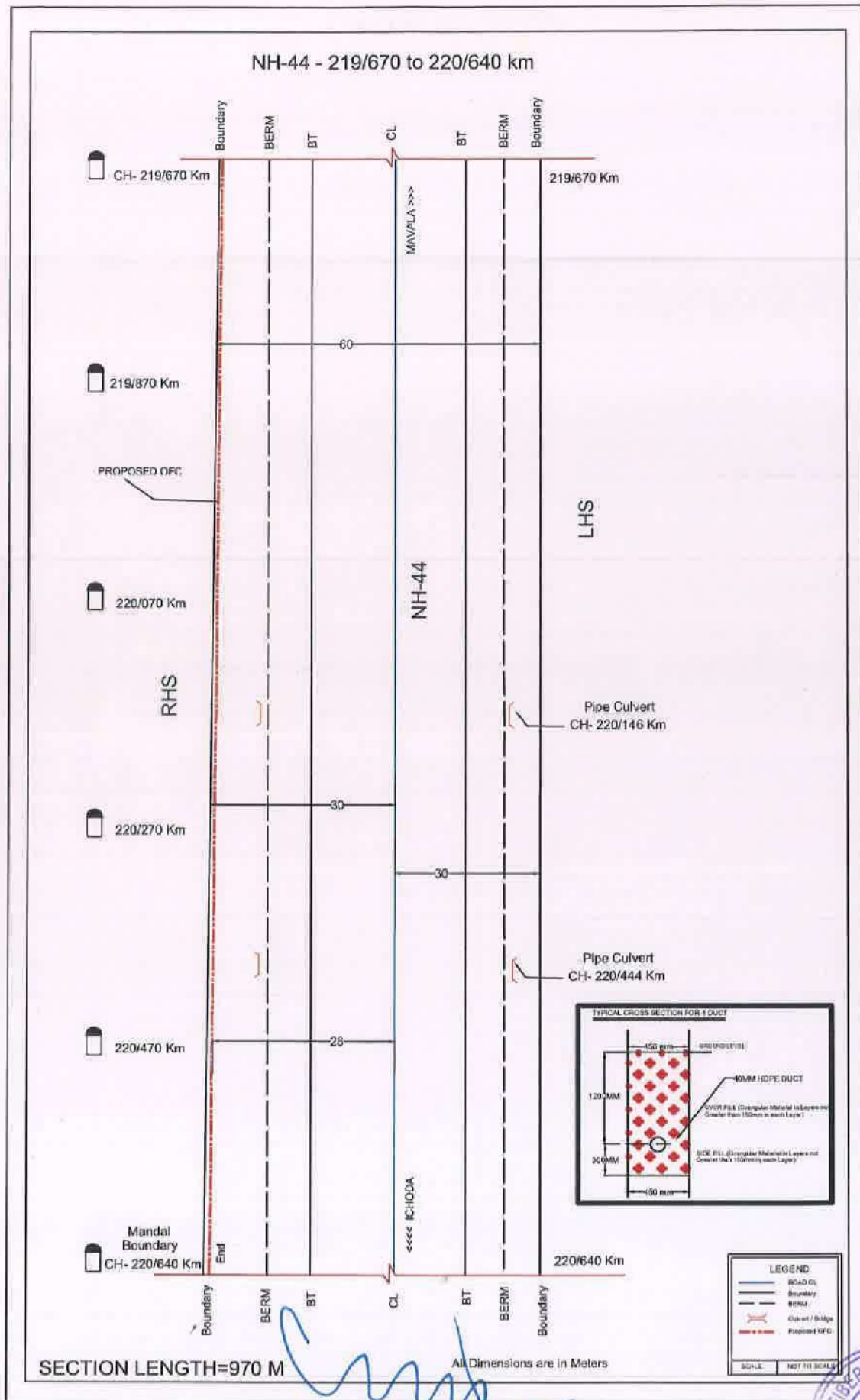
LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
WORKS	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

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PKU, NIRMAL.



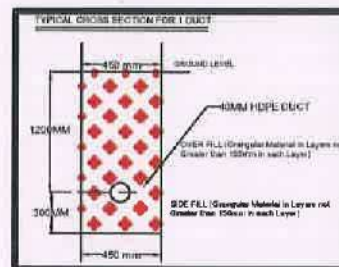
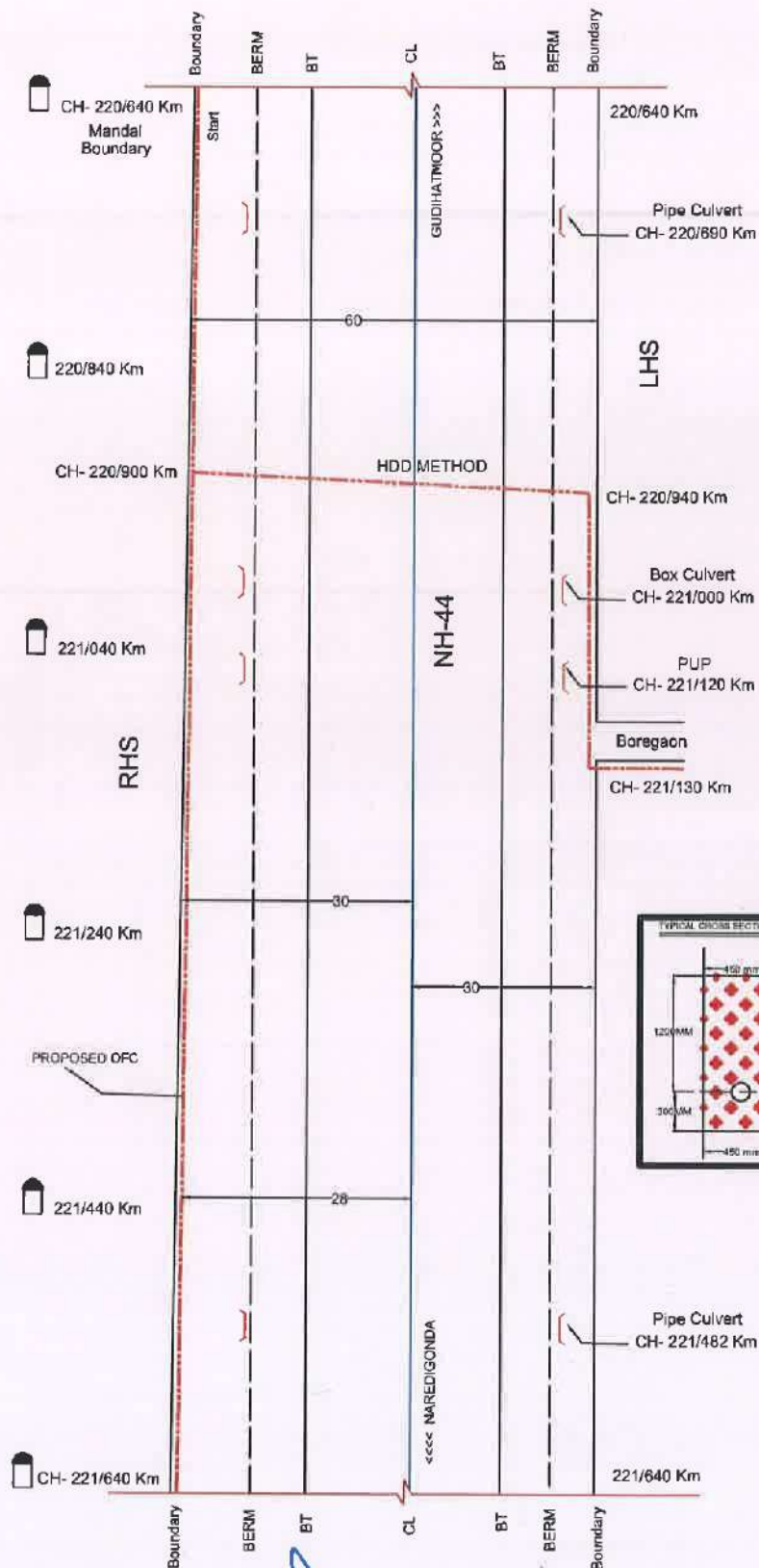


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# NH-44 - 220/640 to 221/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

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National Highways Authority of India  
PMU, NRMAL. I.

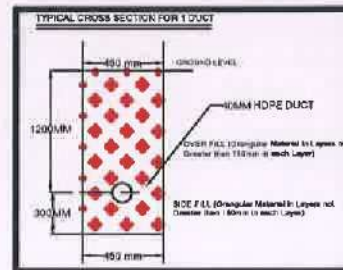
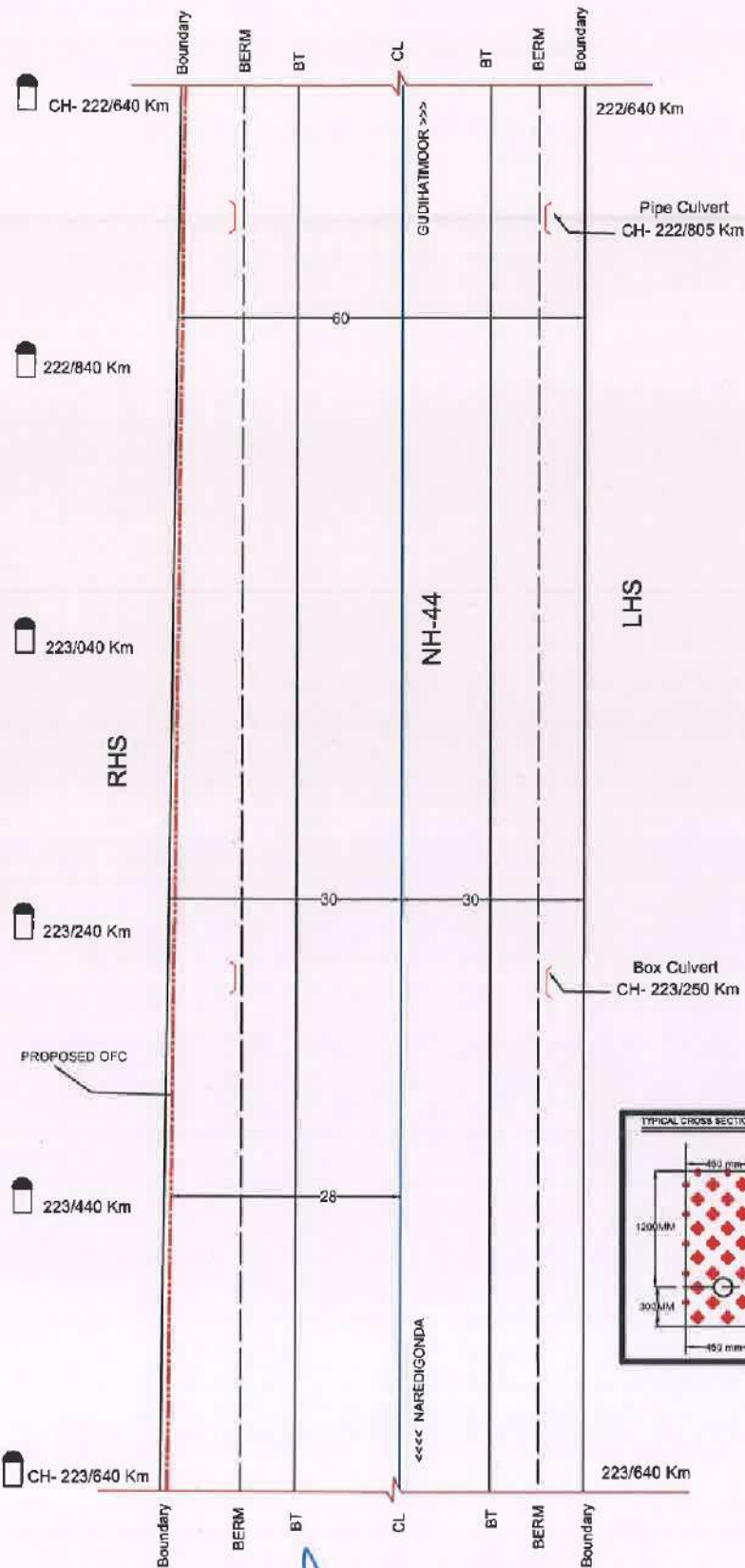


[illegible]

All Dimensions are in Meters



# NH-44 - 222/640 to 223/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

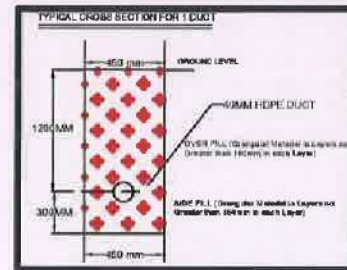
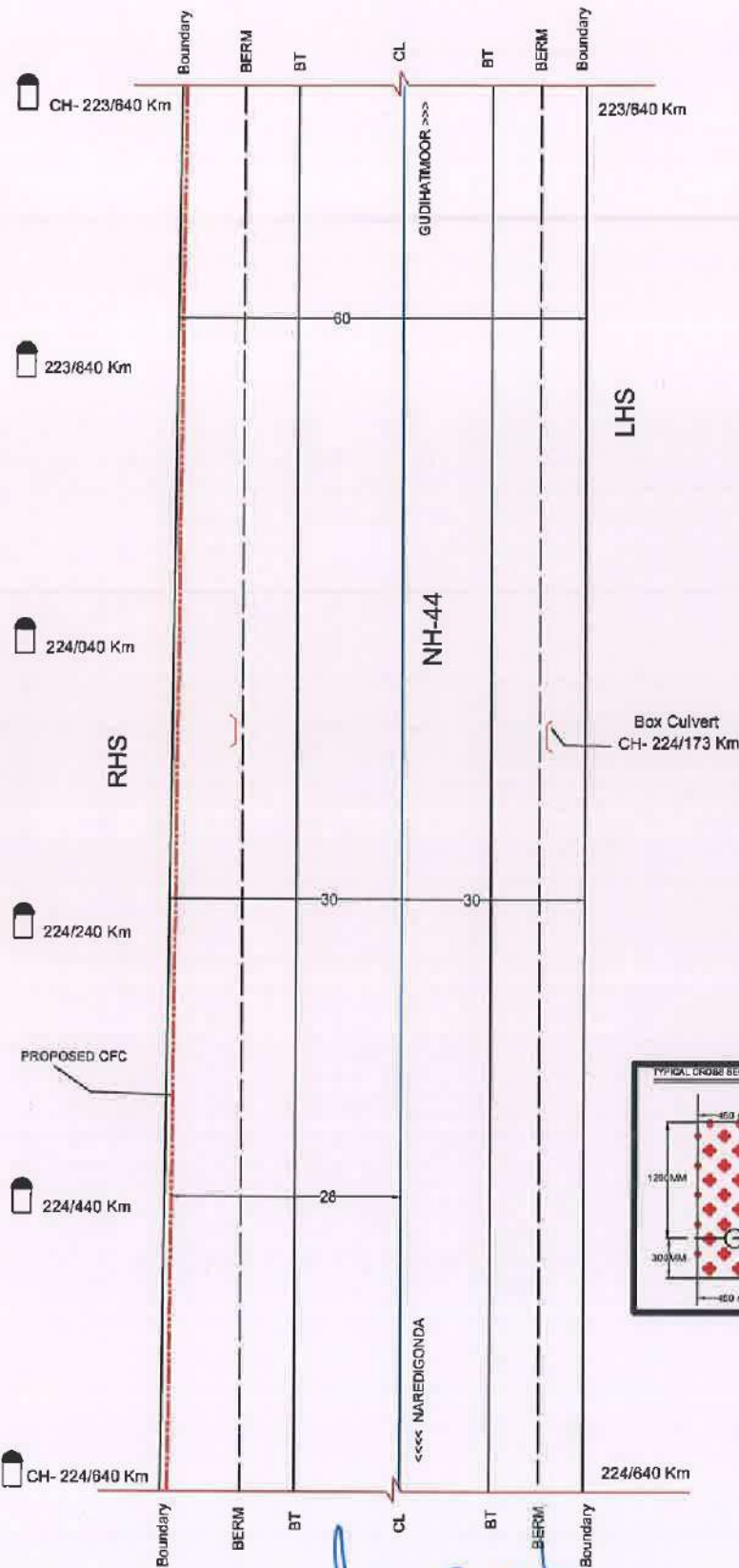
All Dimensions are in Meters

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National Highways Authority of India  
PTU, NHMAL.





# NH-44 - 223/640 to 224/640 km



LEGEND	
—	ROAD CL
- - -	Boundary
- - -	BERM
- - -	BT
- - -	Culvert / Bridge
- - -	Proposed CFC
SCALE	NOT TO SCALE

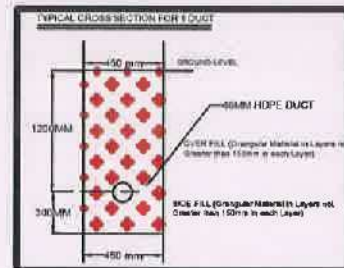
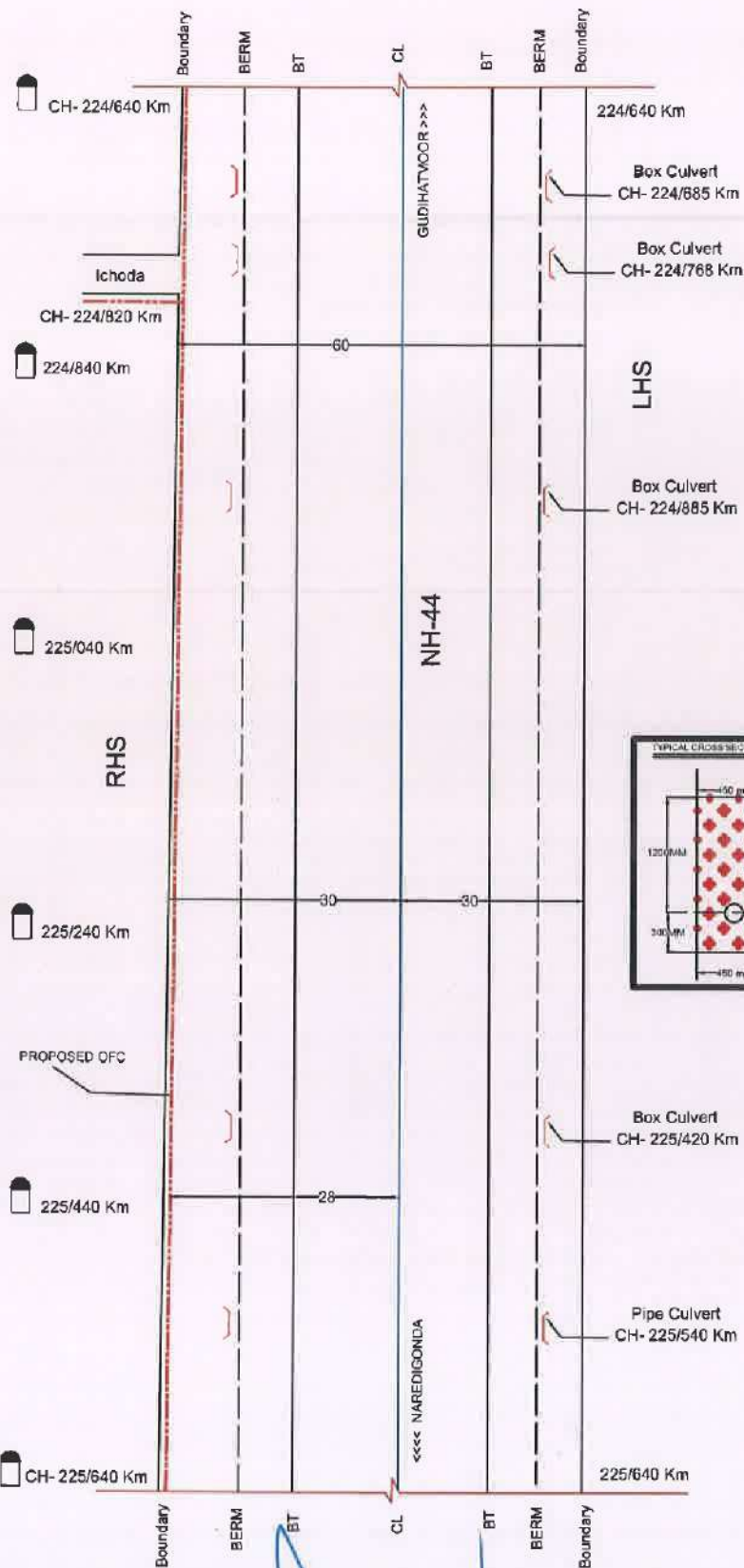
SECTION LENGTH=1000 M

All Dimensions are in Meters

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National Highways Authority of India  
PIU, NIRMAL.



# NH-44 - 224/640 to 225/640 km



LEGEND	
	Road CL
	Boundary
	BT RM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

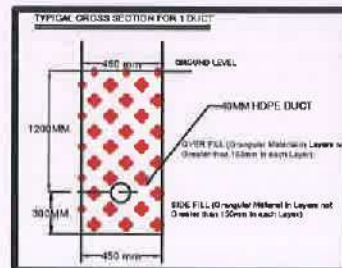
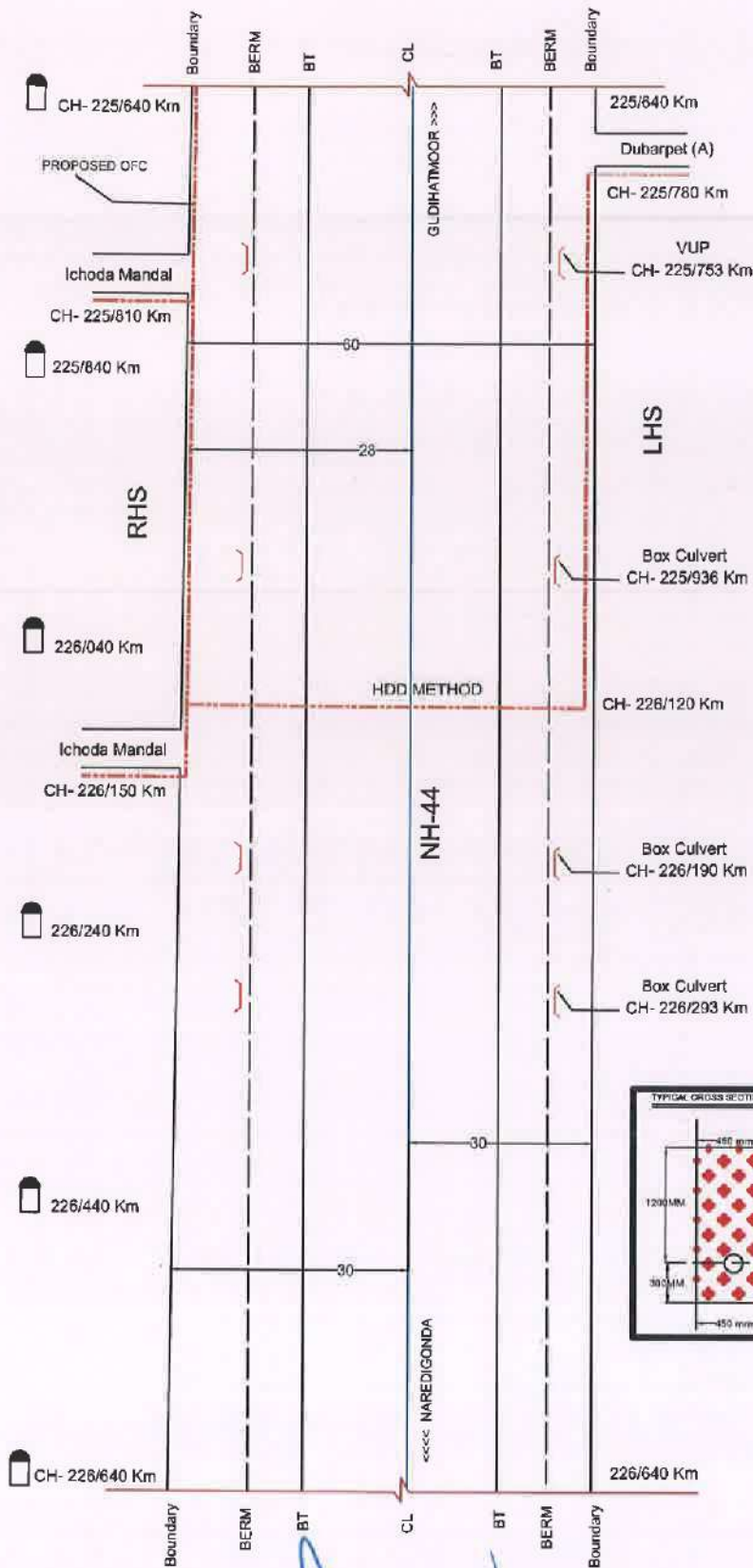
SECTION LENGTH=1000 M

All Dimensions are in Meters

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National Highways Authority of India  
P.U. NORMAL



# NH-44 - 225/640 to 226/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / P.W.
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

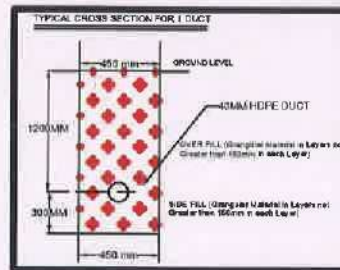
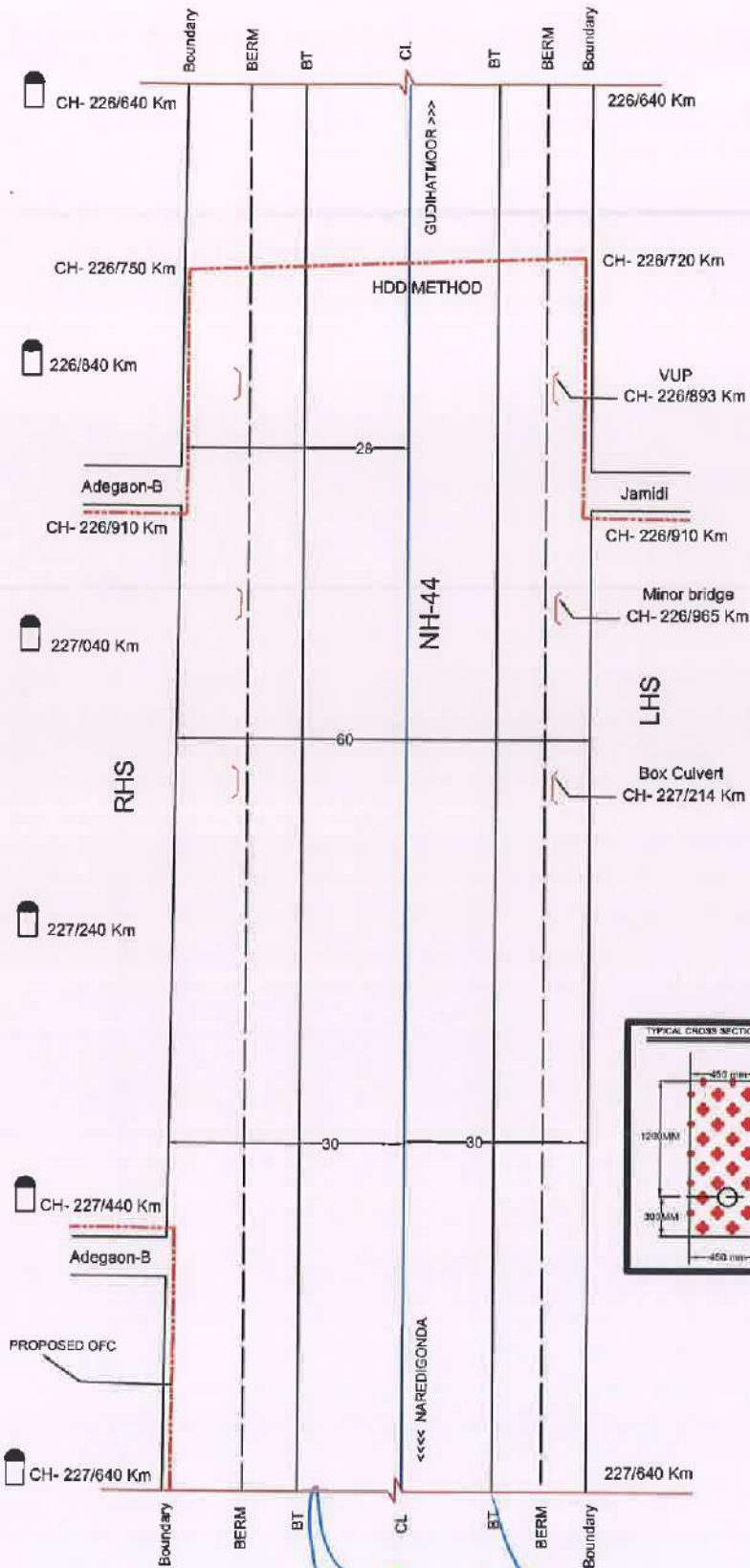
All Dimensions are in Meters

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National Highways Authority of India  
PHU, NIRMAL.





# NH-44 - 226/640 to 227/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Channel / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

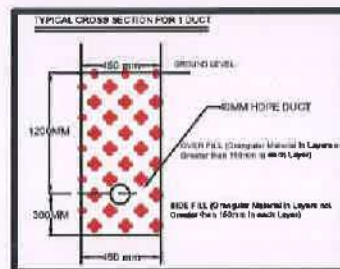
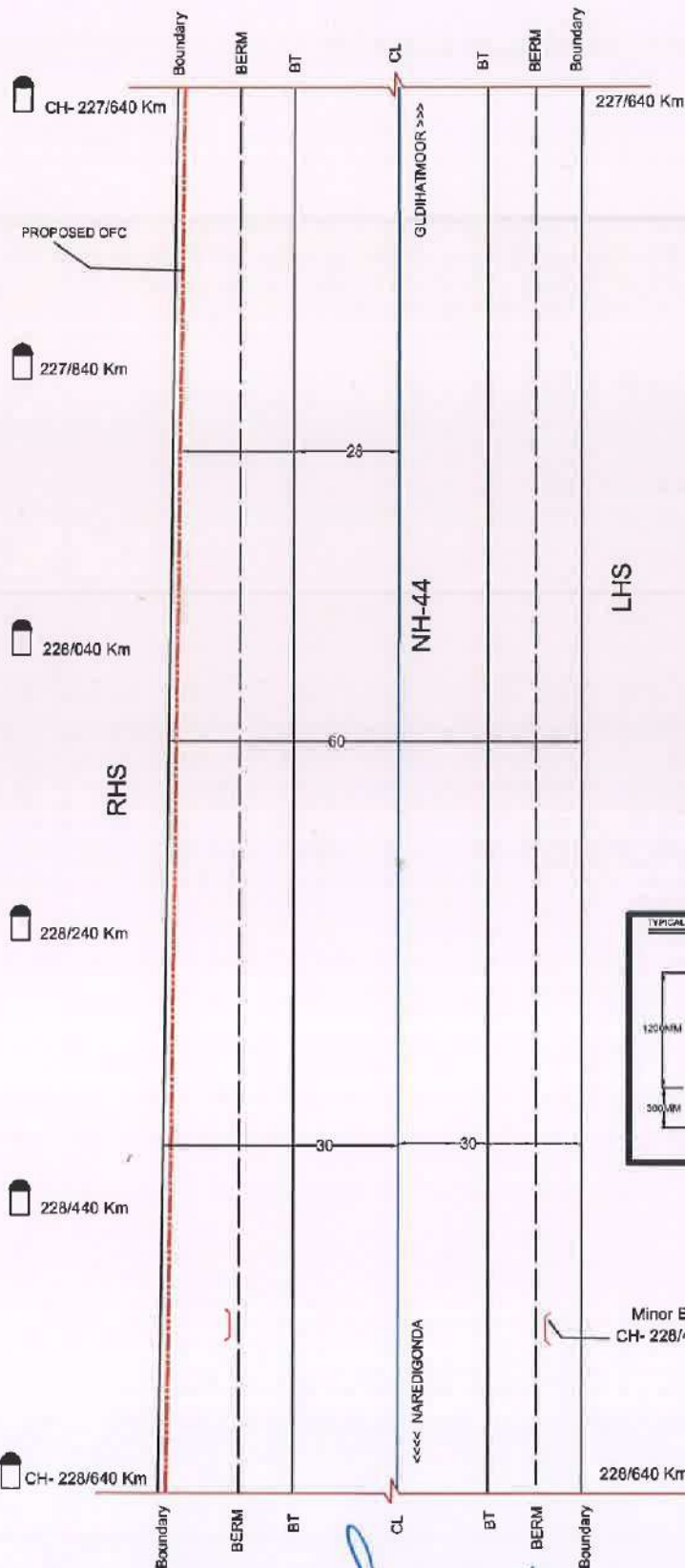
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PHU NARIMAL



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PIU, NIRMAL.



# NH-44 - 227/640 to 228/640 km



LEGEND	
—	ROAD CL
---	Borrow Pit
---	BERM
---	Culvert / Bridge
---	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

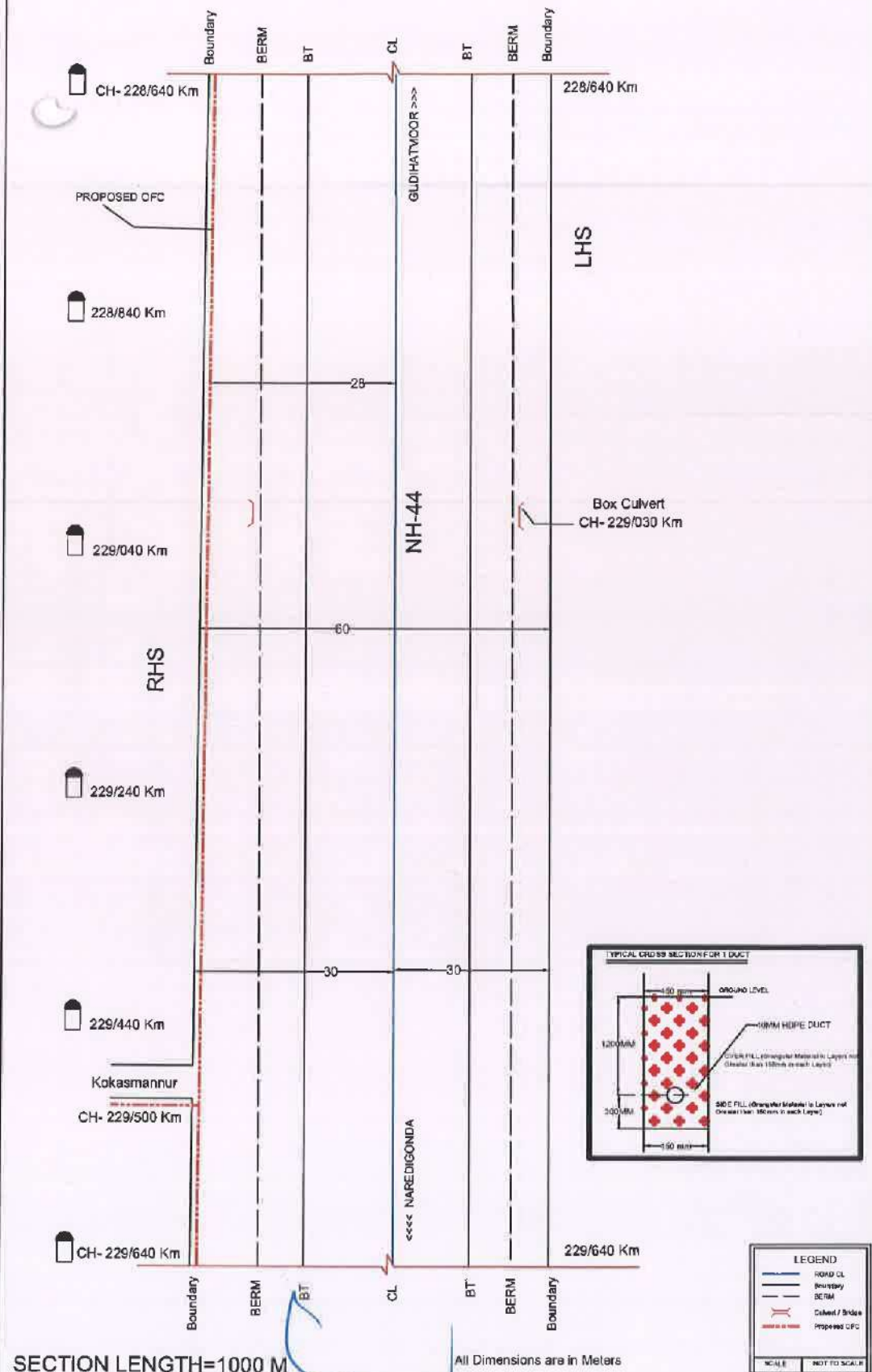
All Dimensions are in Meters

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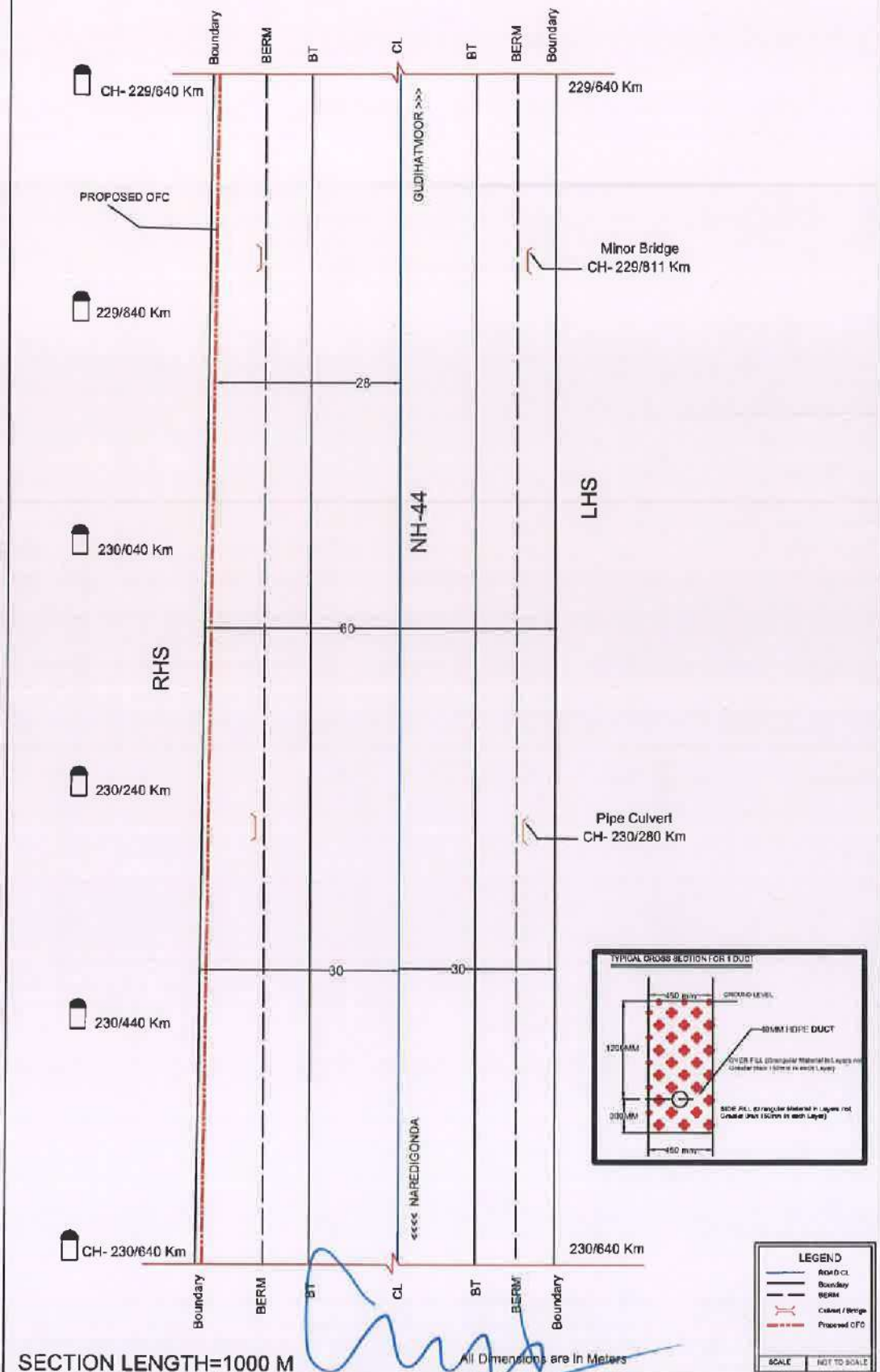
# NH-44 - 228/640 to 229/640 km



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PKU. NPMAL.



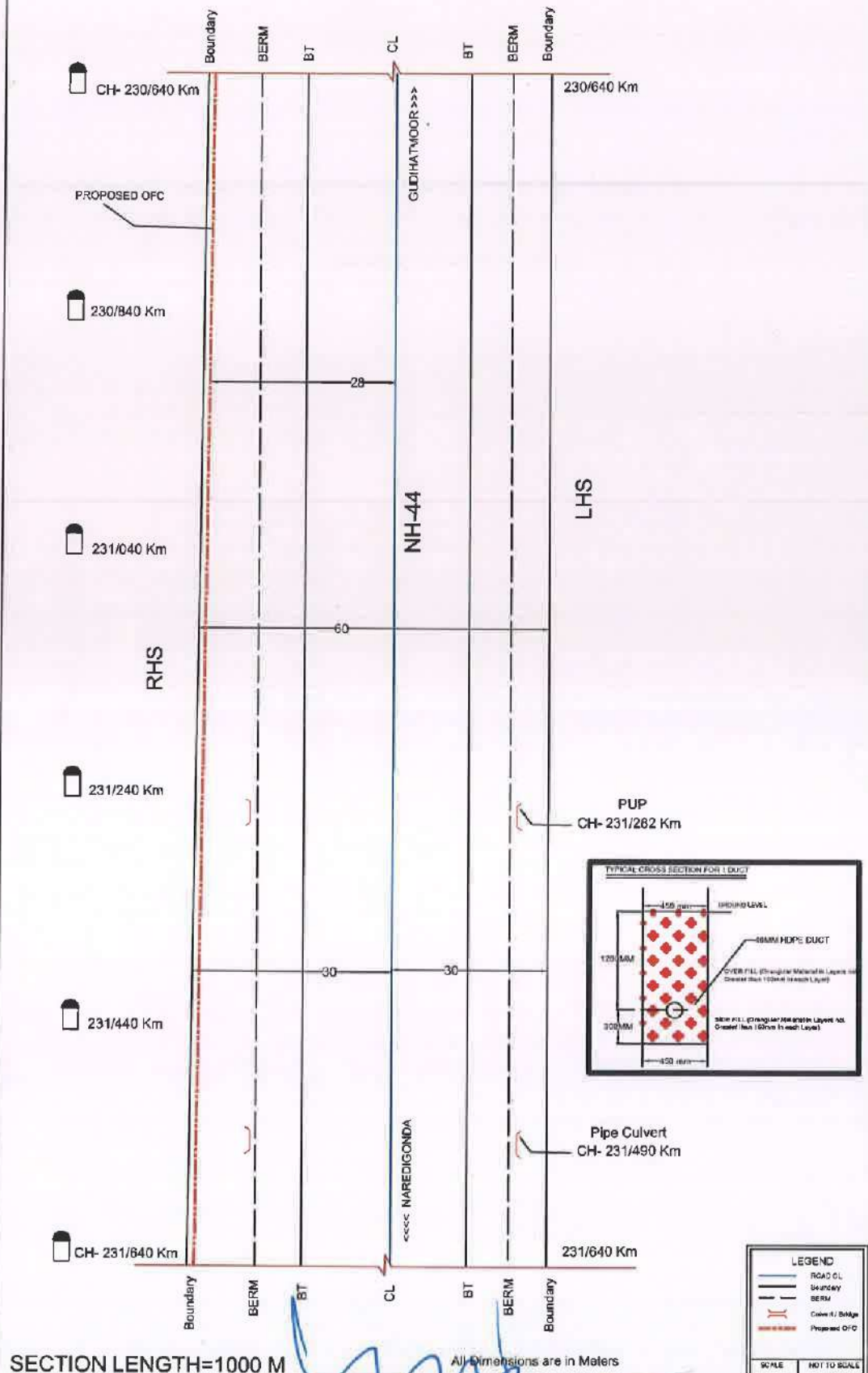
# NH-44 - 229/640 to 230/640 km



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# NH-44 - 230/640 to 231/640 km

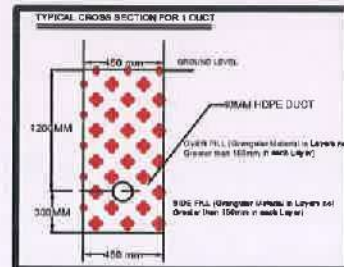
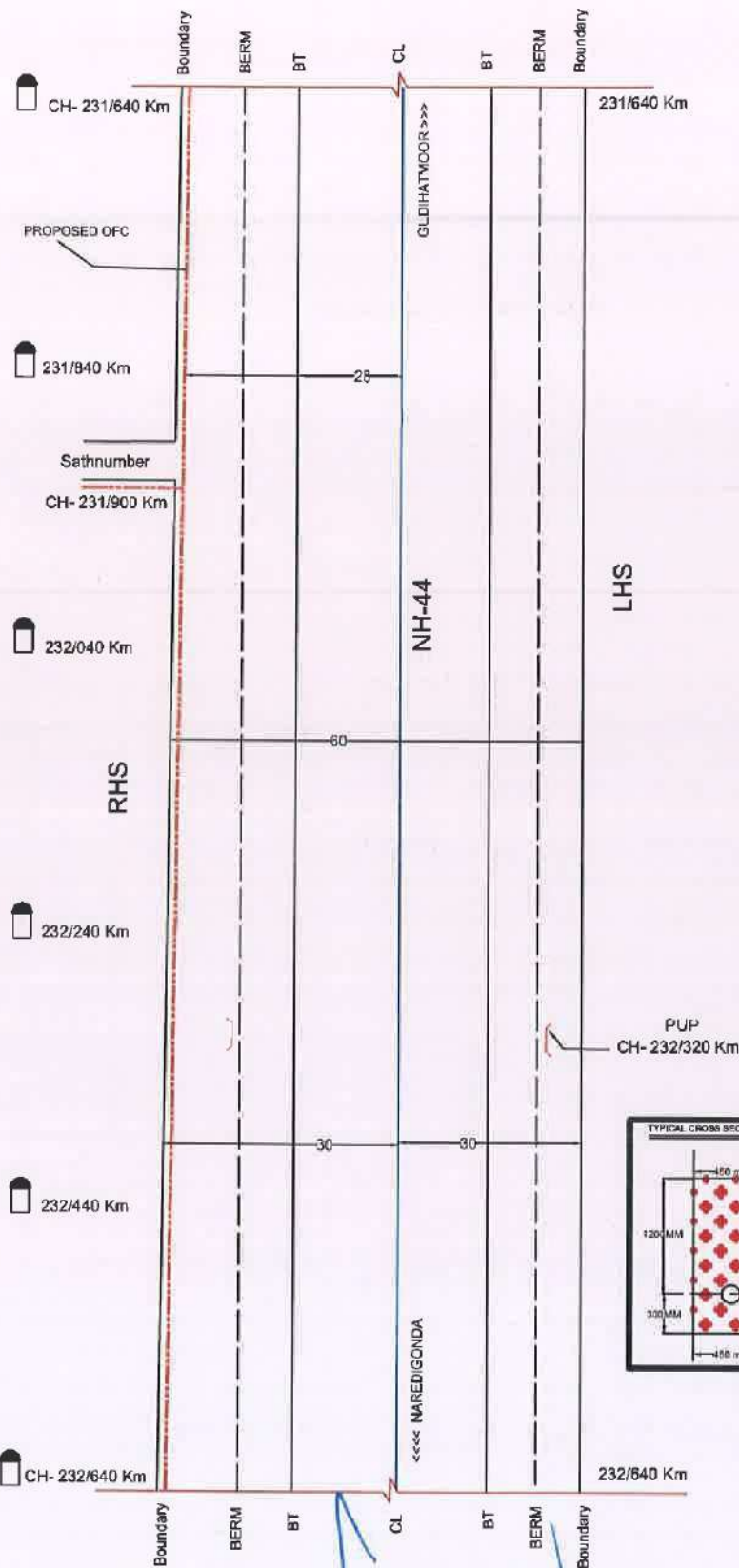


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# NH-44 - 231/640 to 232/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

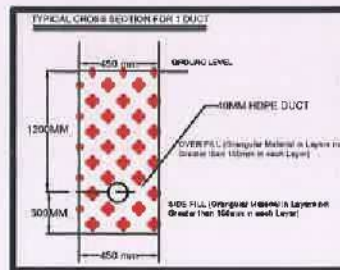
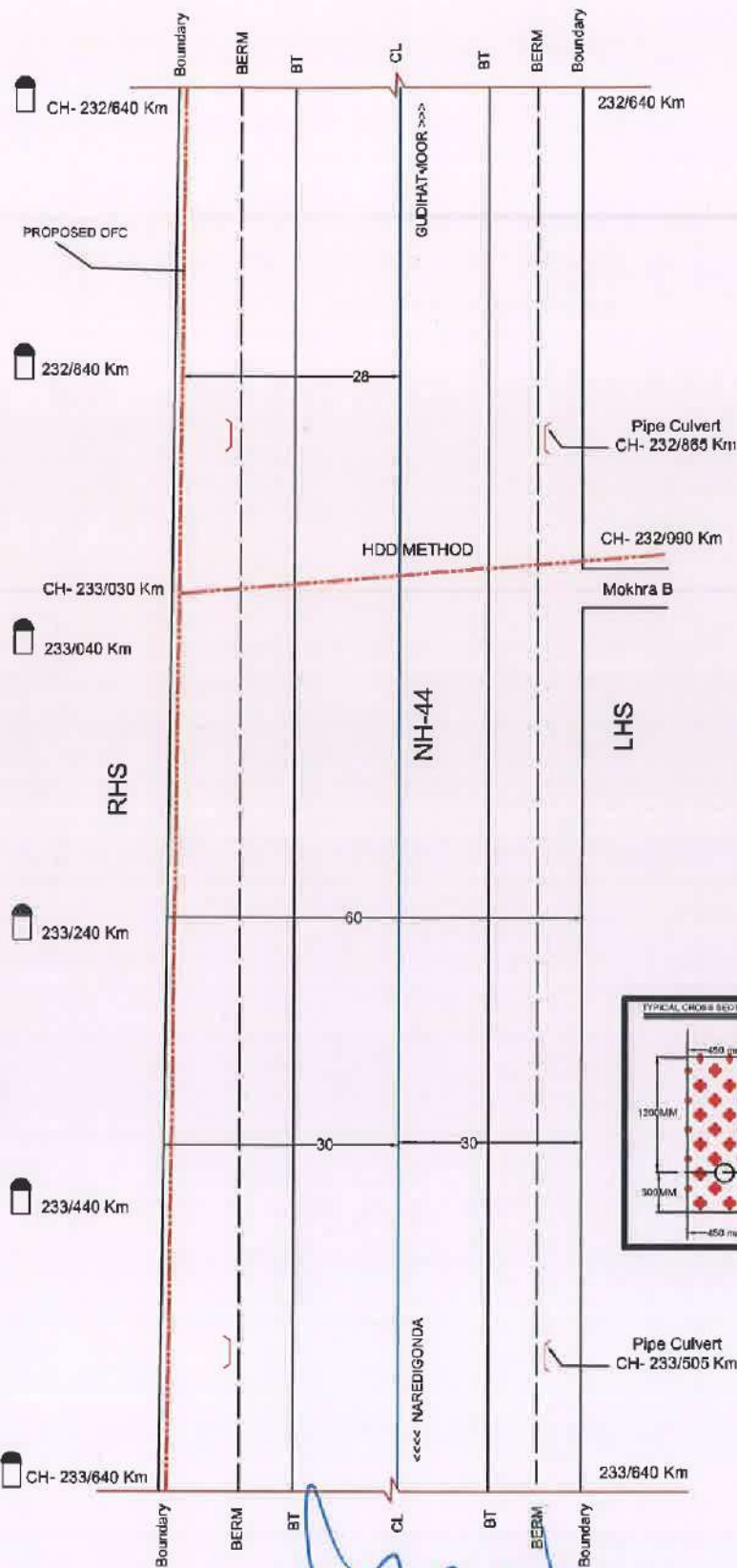
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 232/640 to 233/640 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

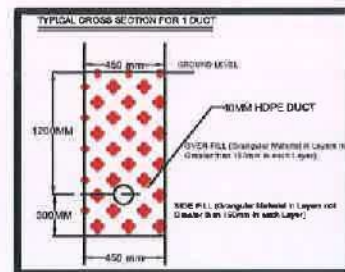
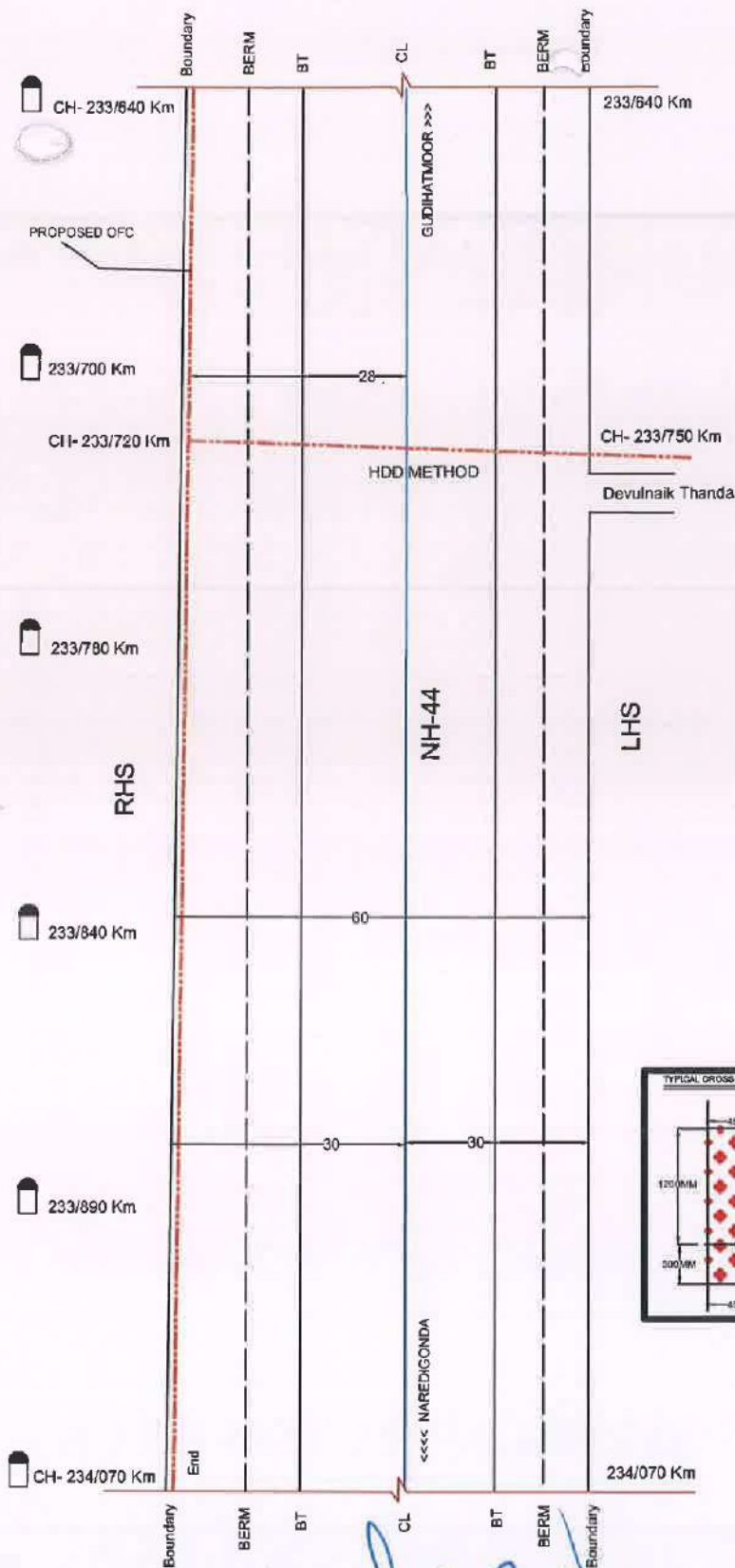
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 233/640 to 234/070 km



LEGEND	
---	BOUND CL
---	Boundary
---	BERM
---	Cutback / Bridge
---	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=430 M

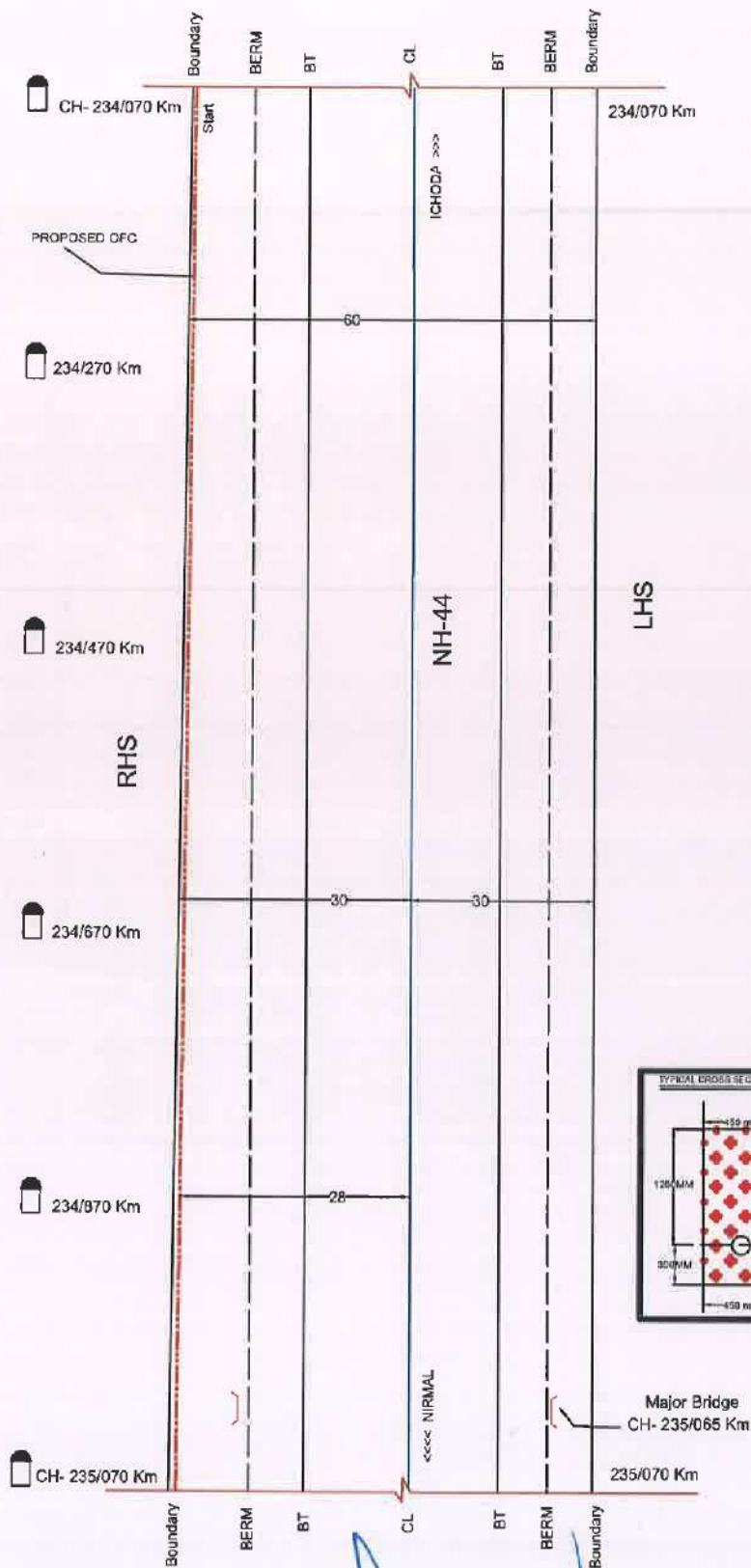
All Dimensions are in Meters

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National Highways Authority of India  
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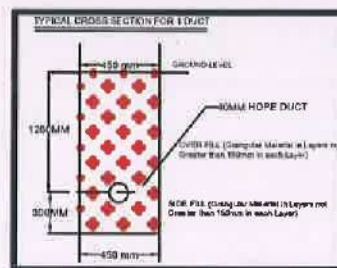


# NH-44 - 234/070 to 235/070 km



SECTION LENGTH=1000 M

All Dimensions are in Meters

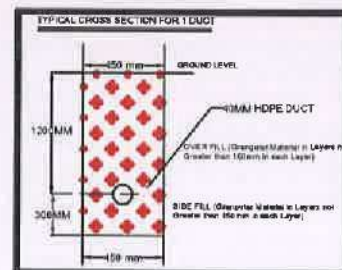
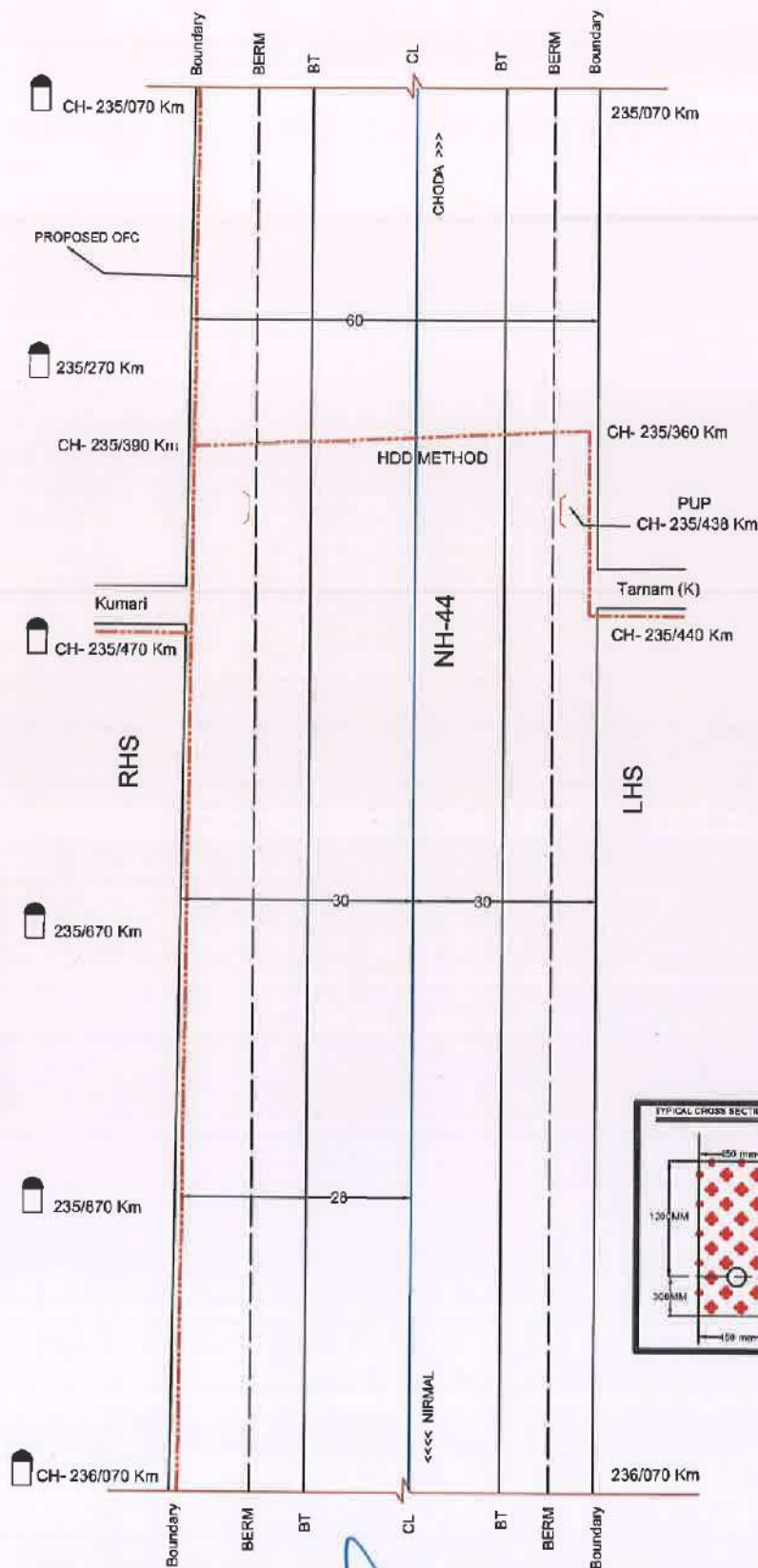


LEGEND	
ROAD CL	
Boundary	
BERM	
Center Bridge	
Proposed OFC	
SCALE	NOT TO SCALE

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# NH-44 - 235/070 to 236/070 km



LEGEND	
—	ROAD CL
- - -	Boundary
- - -	BTM
- - -	CL
- - -	Proposed OFC
—	SCALE
—	NOT TO SCALE

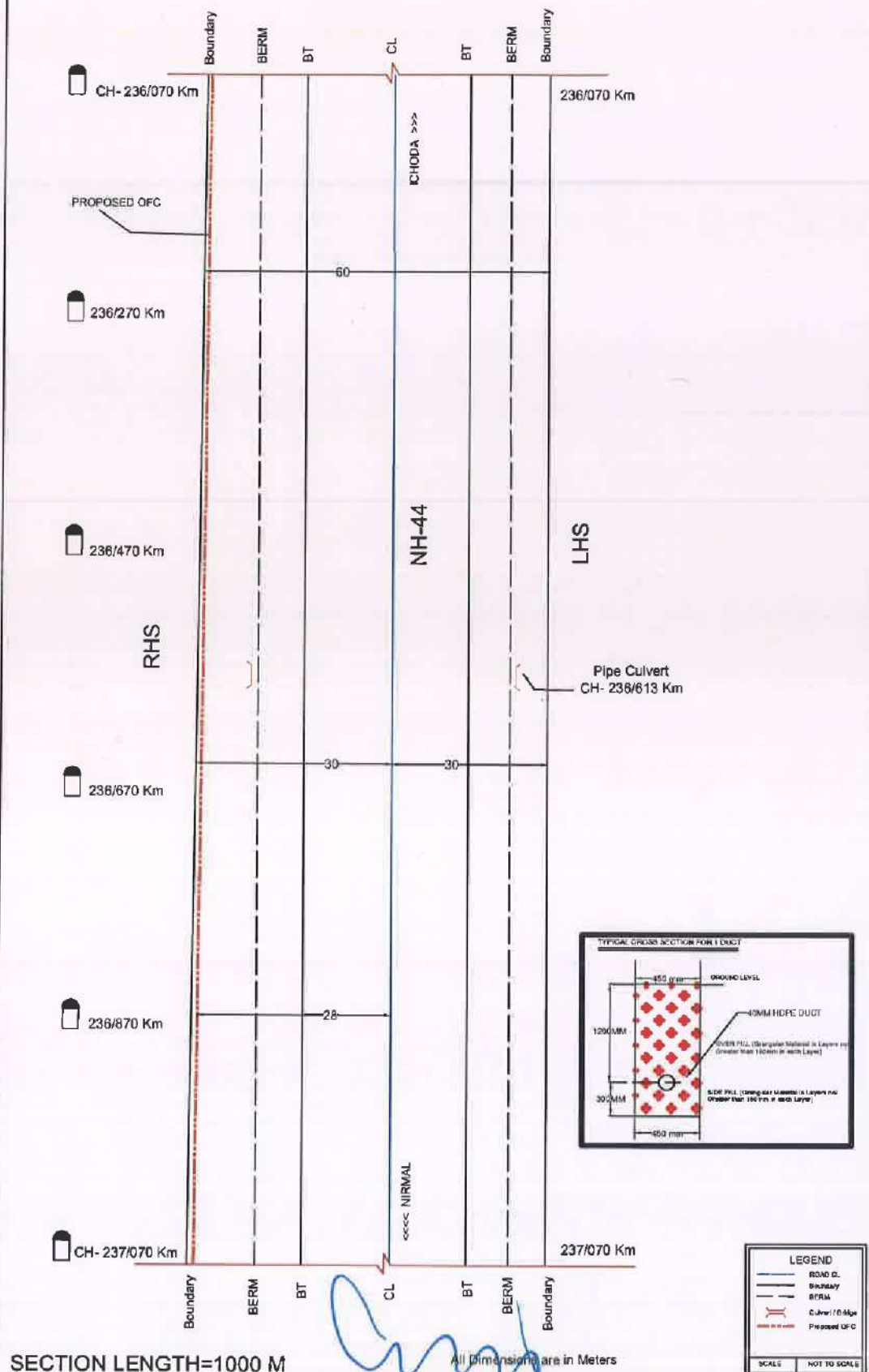
SECTION LENGTH=1000 M

All Dimensions are in Meters

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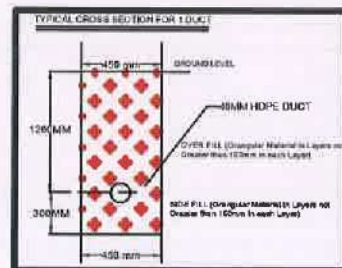
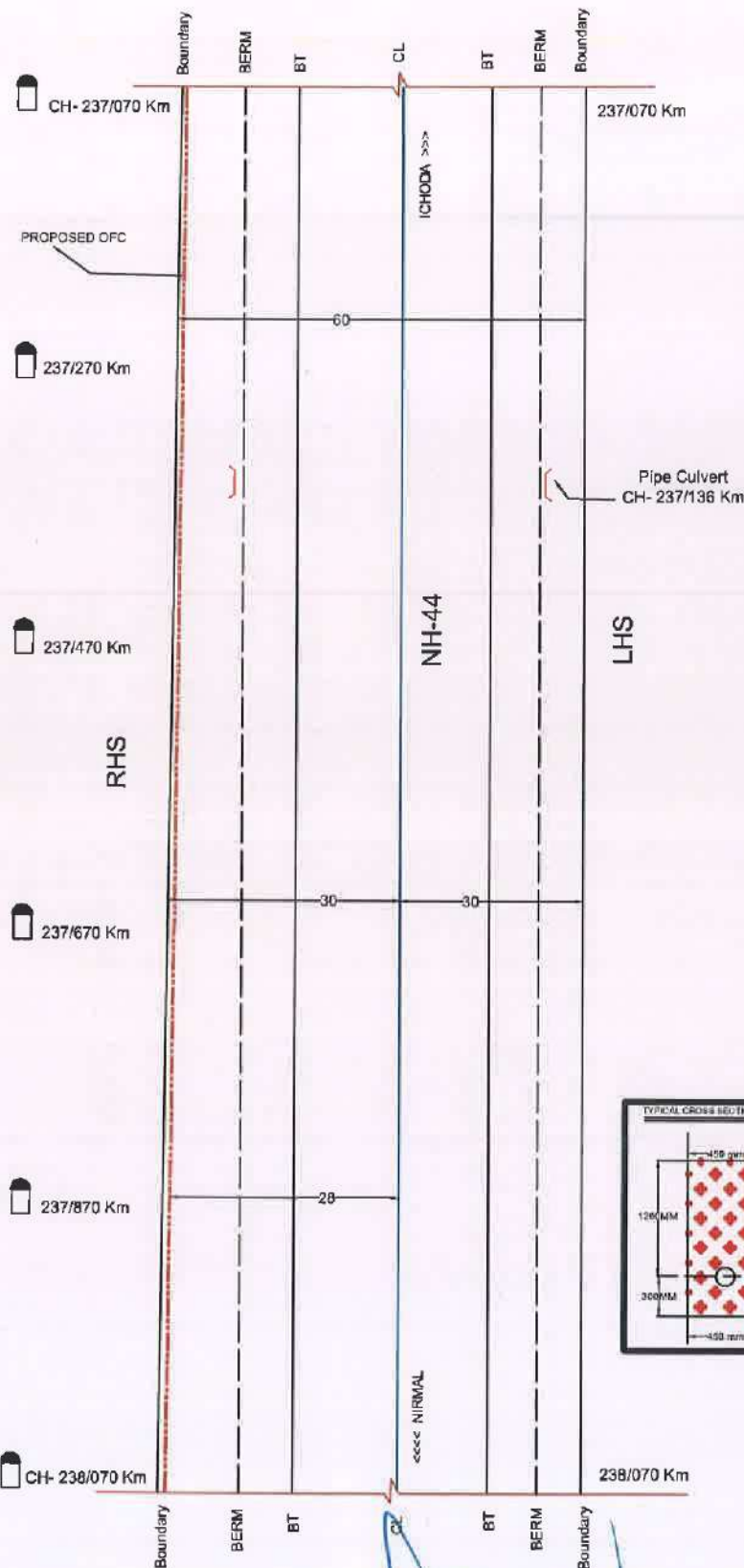


# NH-44 - 236/070 to 237/070 km





# NH-44 - 237/070 to 238/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

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NH-44 - 238/070 to 239/070 km

CH- 238/070 Km

PROPOSED DFC

238/270 Km

Tejapur

CH- 238/380 Km

238/470 Km

238/670 Km

238/670 Km

CH- 239/070 Km

238/070 Km

238/189 Km

Pipe Culvert  
CH- 238/272 Km

Minor  
CH- 238/569 Km

239/070 Km

SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR

LEGEND

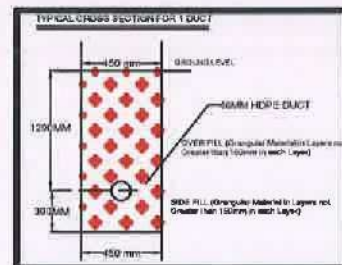
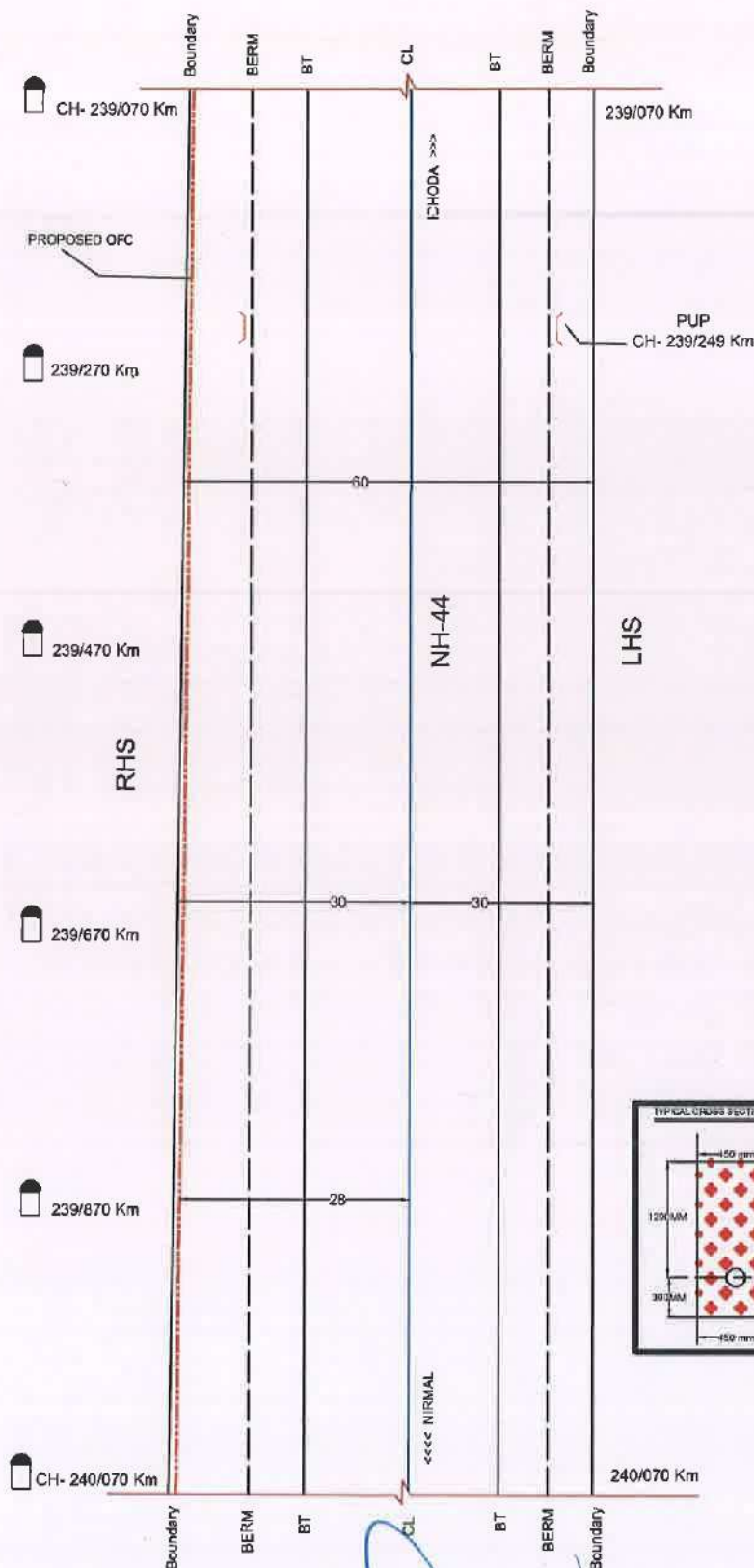
- ROAD CL
- Boundary
- BERM
- Culvert / Bridge
- Proposed DFC

SCALE 1:1000

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# NH-44 - 239/070 to 240/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / bridge
	Proposed OFC
SCALE	NOTE TO SCALE

SECTION LENGTH=1000 M

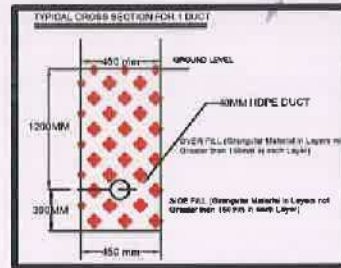
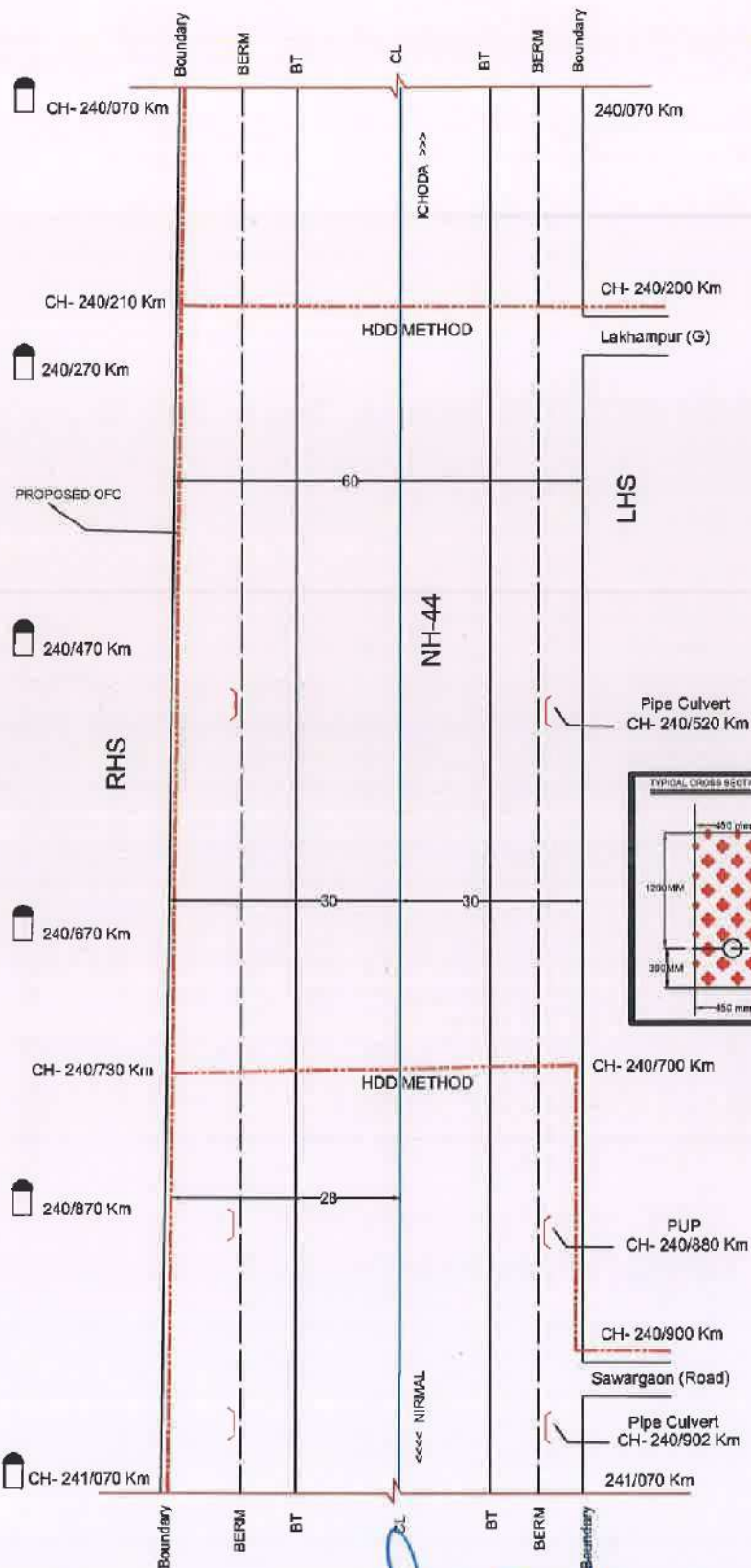
All Dimensions are in Meters

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# NH-44 - 240/070 to 241/070 km



LEGEND	
	ROAD CL
	Boundary
	US/IR
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

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**NH-44 - 241/070 to 242/070 km**

SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR

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NH-44 - 242/070 to 243/070 km

CH- 242/070 Km

PROPOSED OFC

242/270 Km

242/470 Km

242/670 Km

242/870 Km

CH- 243/070 Km

Boundary

BERM

BT

CL

NH-44

LHS

RHS

Pipe Culvert CH- 242/320 Km

60

30

26

400mm

1200mm

300mm

400mm

GROUND LEVEL

400mm HOPE DUCT

COVER FLL (Concrete Slab on 150mm in each layer)

SOC FLL (Concrete Slab on 150mm in each layer)

LEGEND

- ROAD CL
- Boundary
- BERM
- Culvert / Bridge
- Proposed OFC

SCALE

NOTE TO SCALE

SECTION LENGTH=1000 M

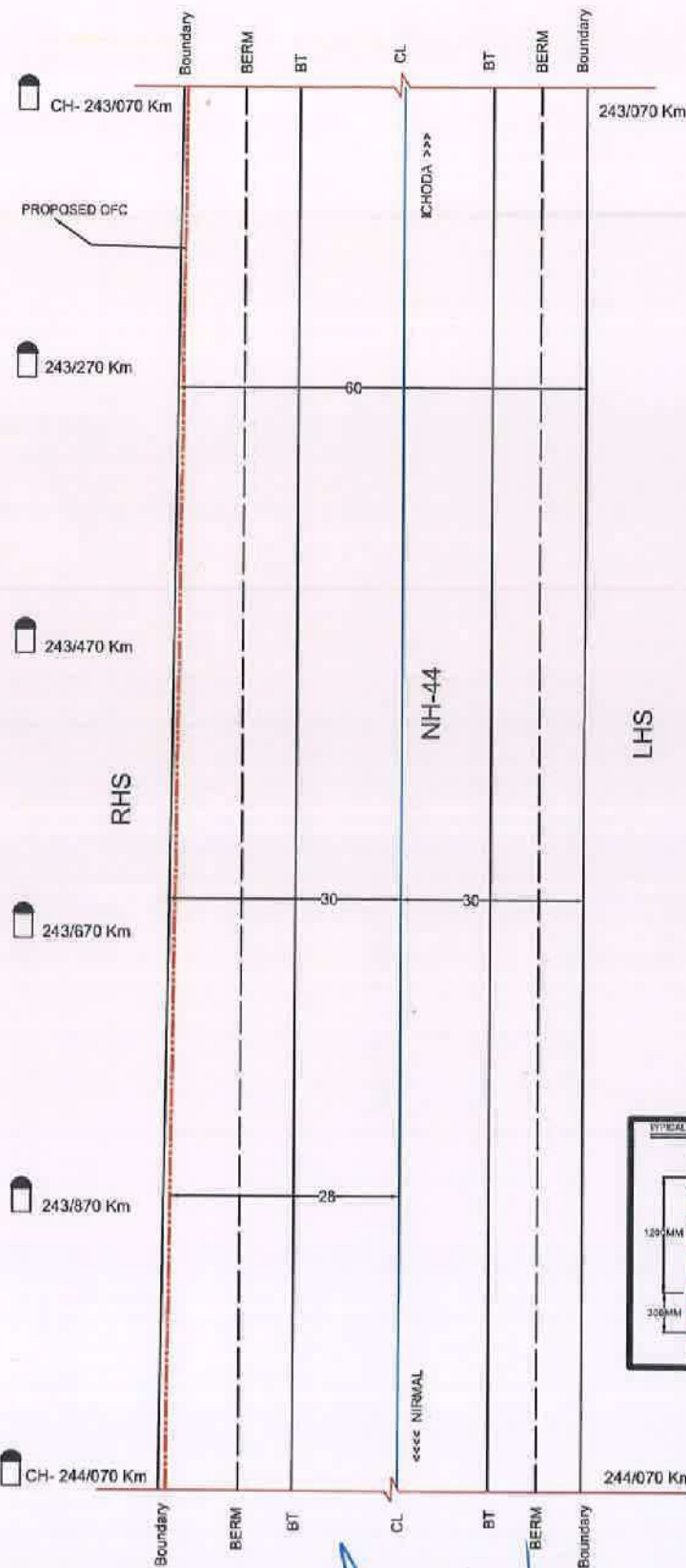
All Dimensions are in Meters

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# NH-44 - 243/070 to 244/070 km



SECTION LENGTH=1000 M

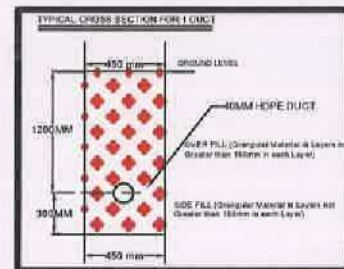
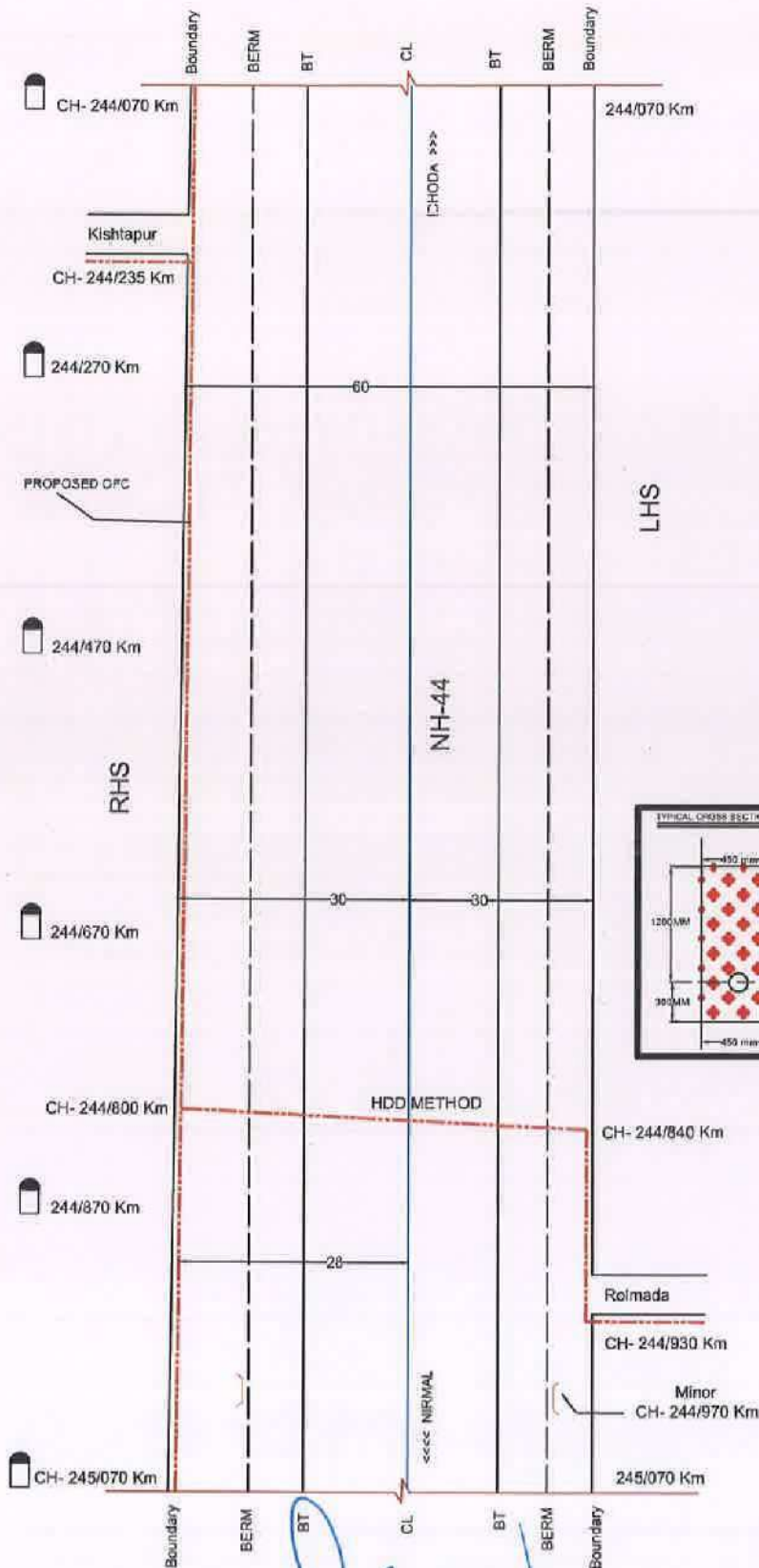
All Dimensions are in Meters

LEGEND	
	ROAD CL
	Boundary
	BERM
	Current / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

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# NH-44 - 244/070 to 245/070 km



LEGEND	
---	ROAD CL
---	Boundary
---	BERM
---	BT
---	Cut-off / Bridge
---	Proposed O/P
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

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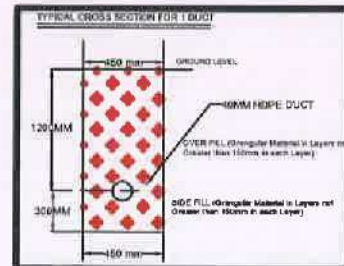
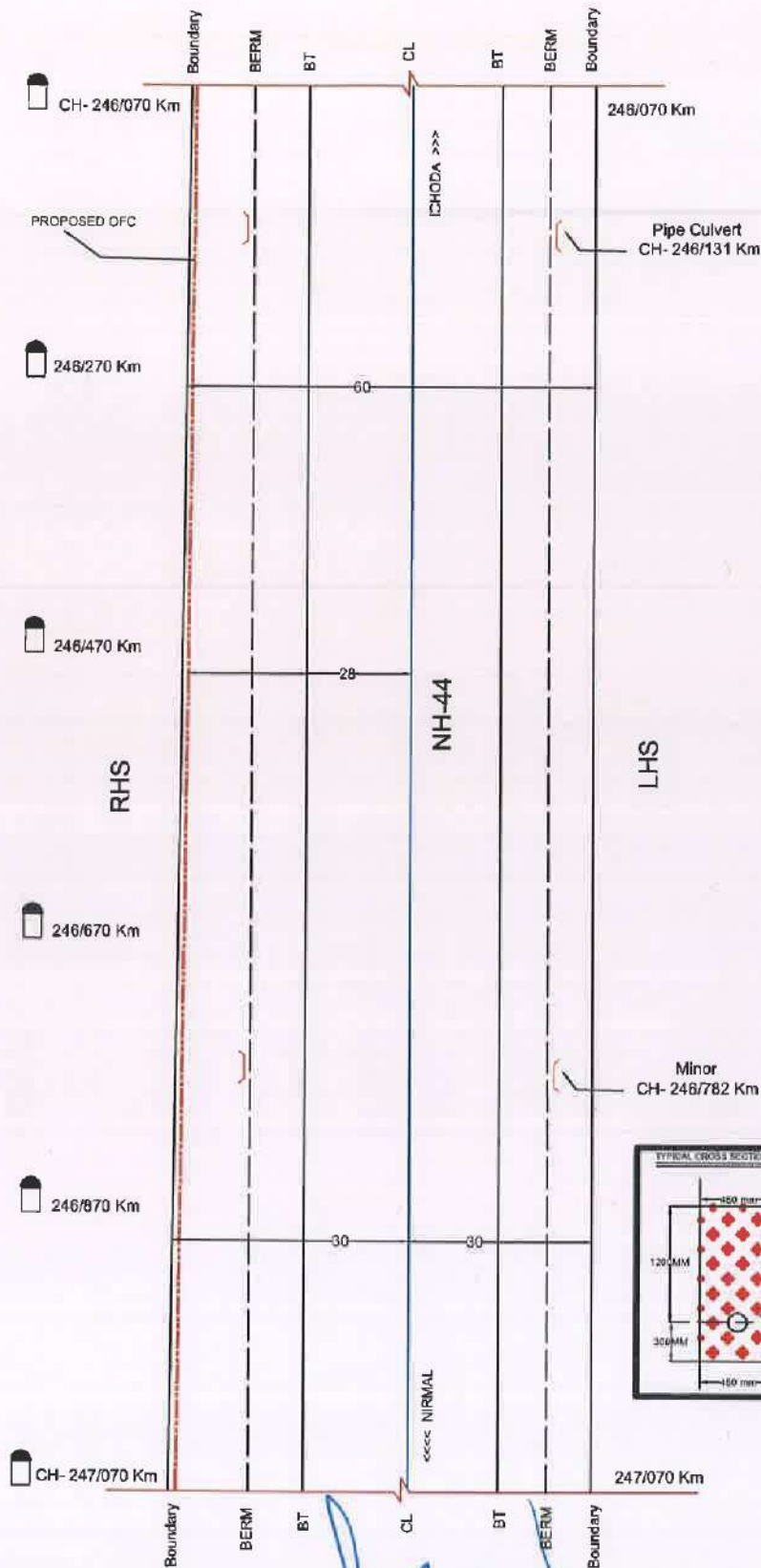


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PIU, NHRAI. 4





# NH-44 - 246/070 to 247/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

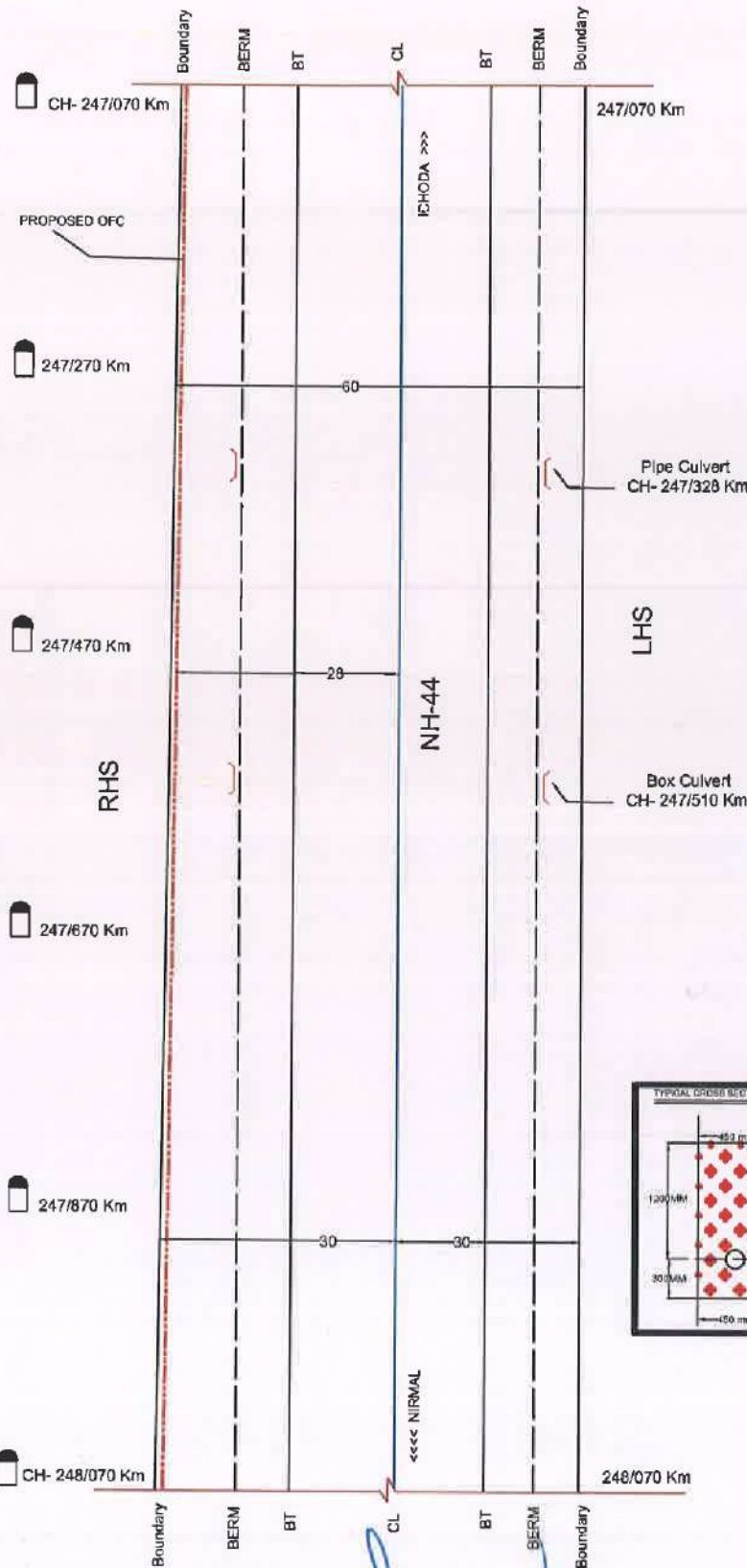
SECTION LENGTH=1000 M

All Dimensions are in Metres

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National Highways Authority of India  
PHU, NIRMAL.



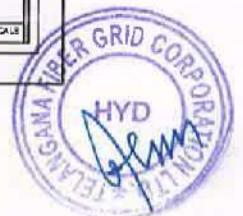
# NH-44 - 247/070 to 248/070 km



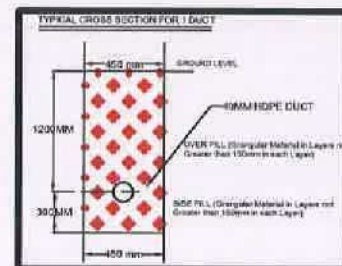
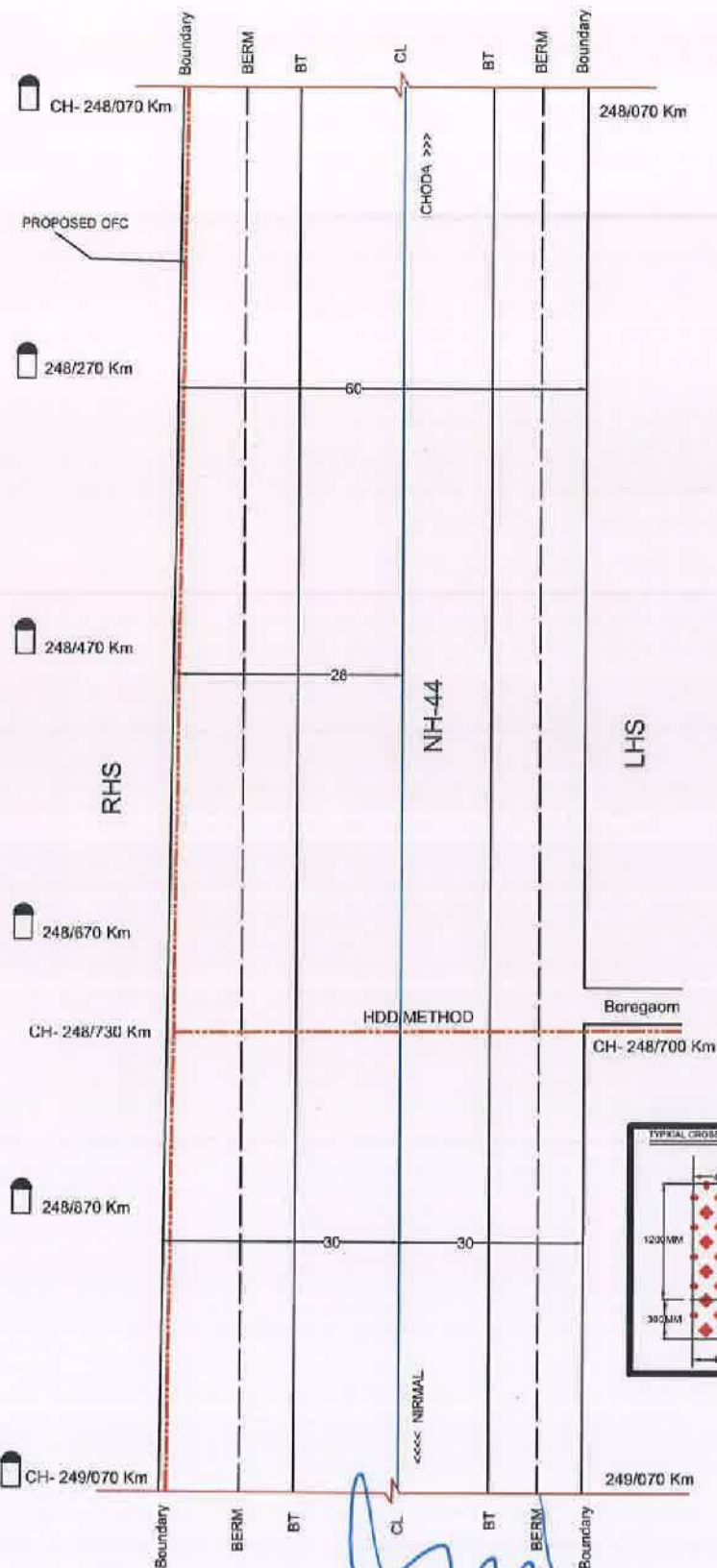
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 248/070 to 249/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Cutback / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

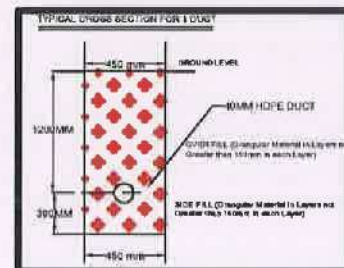
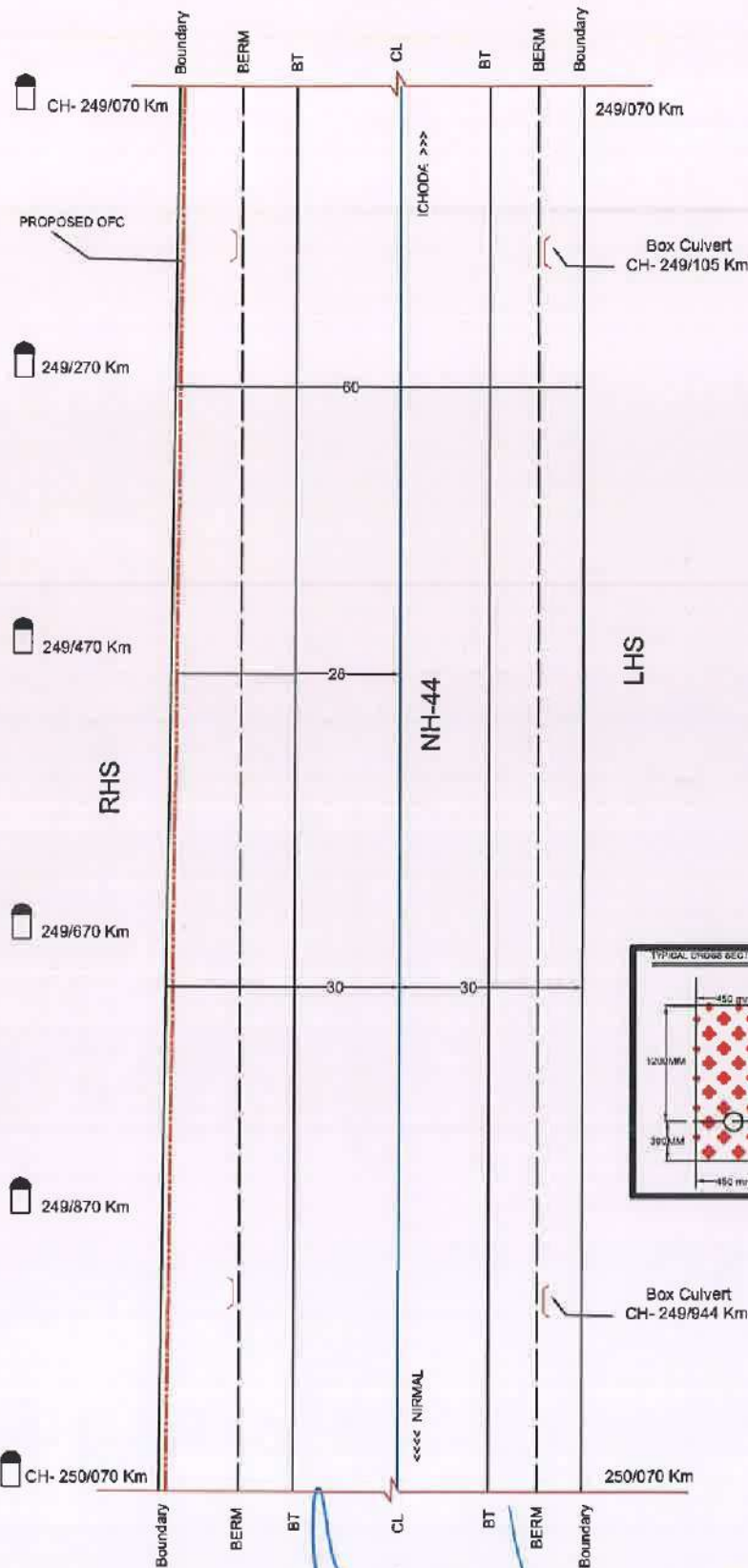
All Dimensions are in Meters

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# NH-44 - 249/070 to 250/070 km



LEGEND	
---	ROAD CL
---	Boundary
---	BERM
---	Culvert / Bridge
---	Proposed OFC
SCALE	NOT TO SCALE

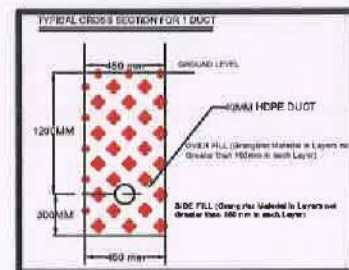
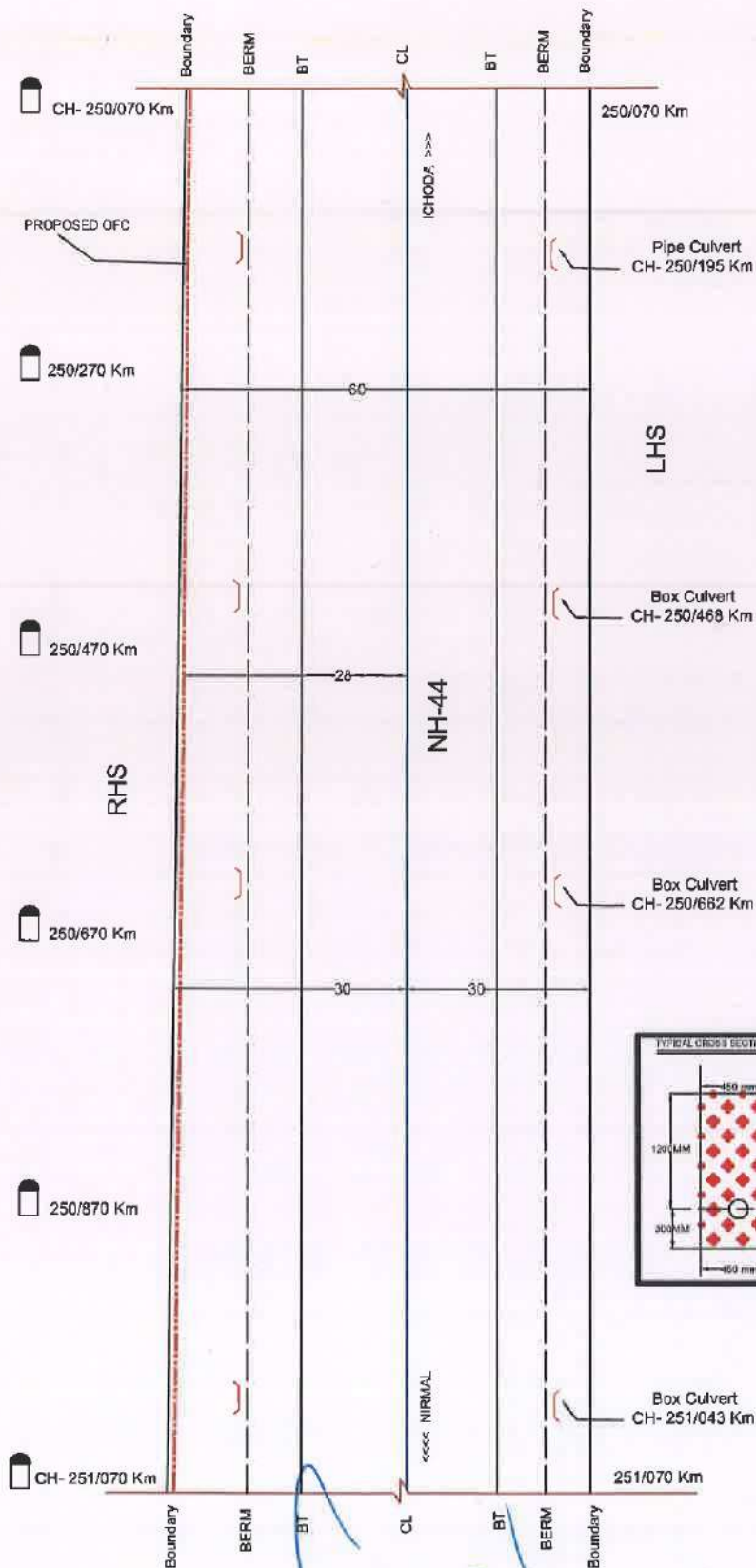
SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
PIU, NH-44.



# NH-44 - 250/070 to 251/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	BT
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

All Dimensions are in Meters

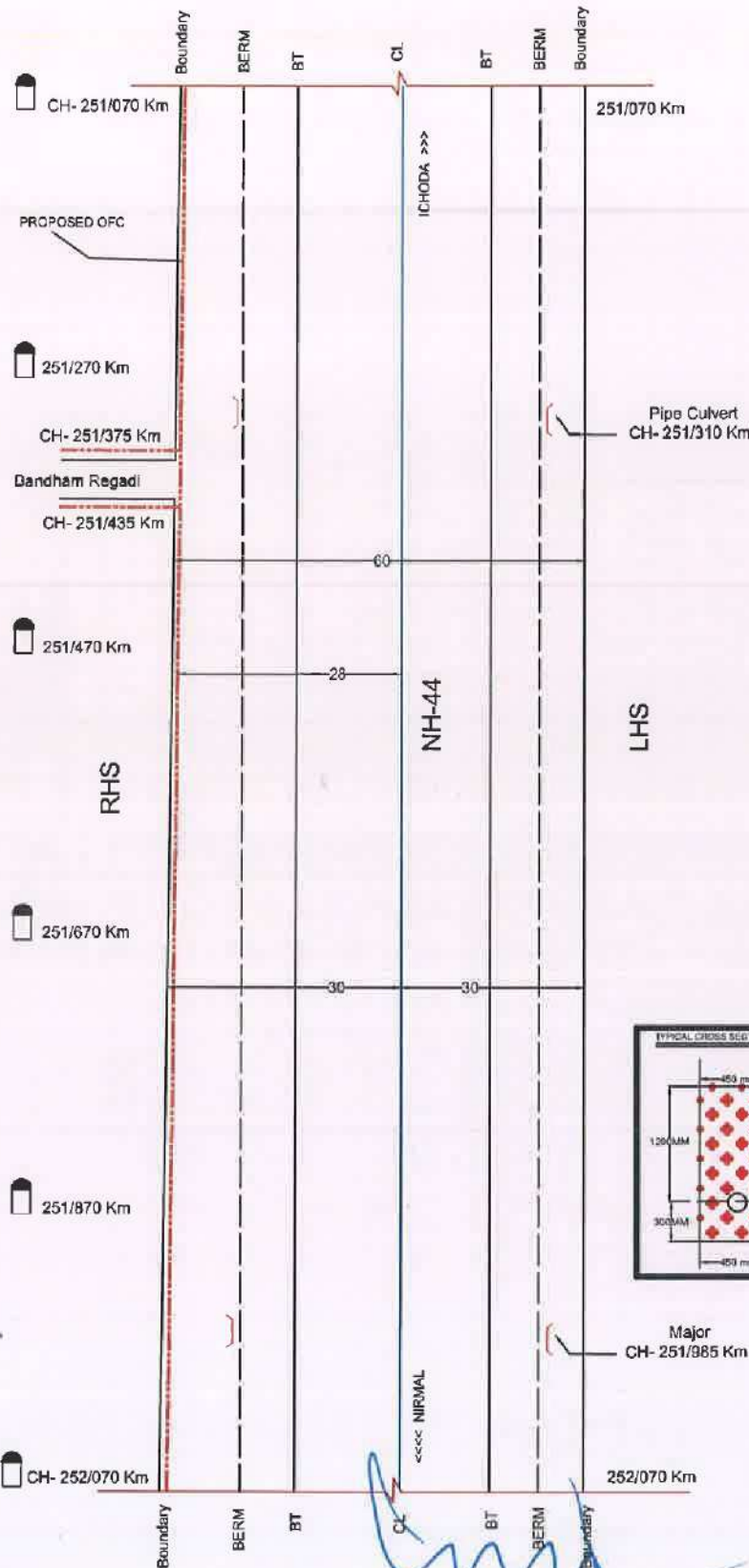
PROJECT DIRECTOR

National Highways Authority of India

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# NH-44 - 251/070 to 252/070 km



SECTION LENGTH=1000 M

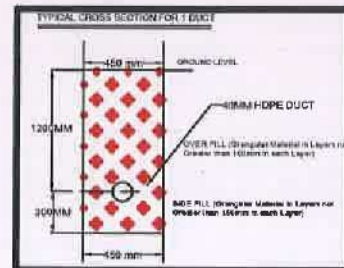
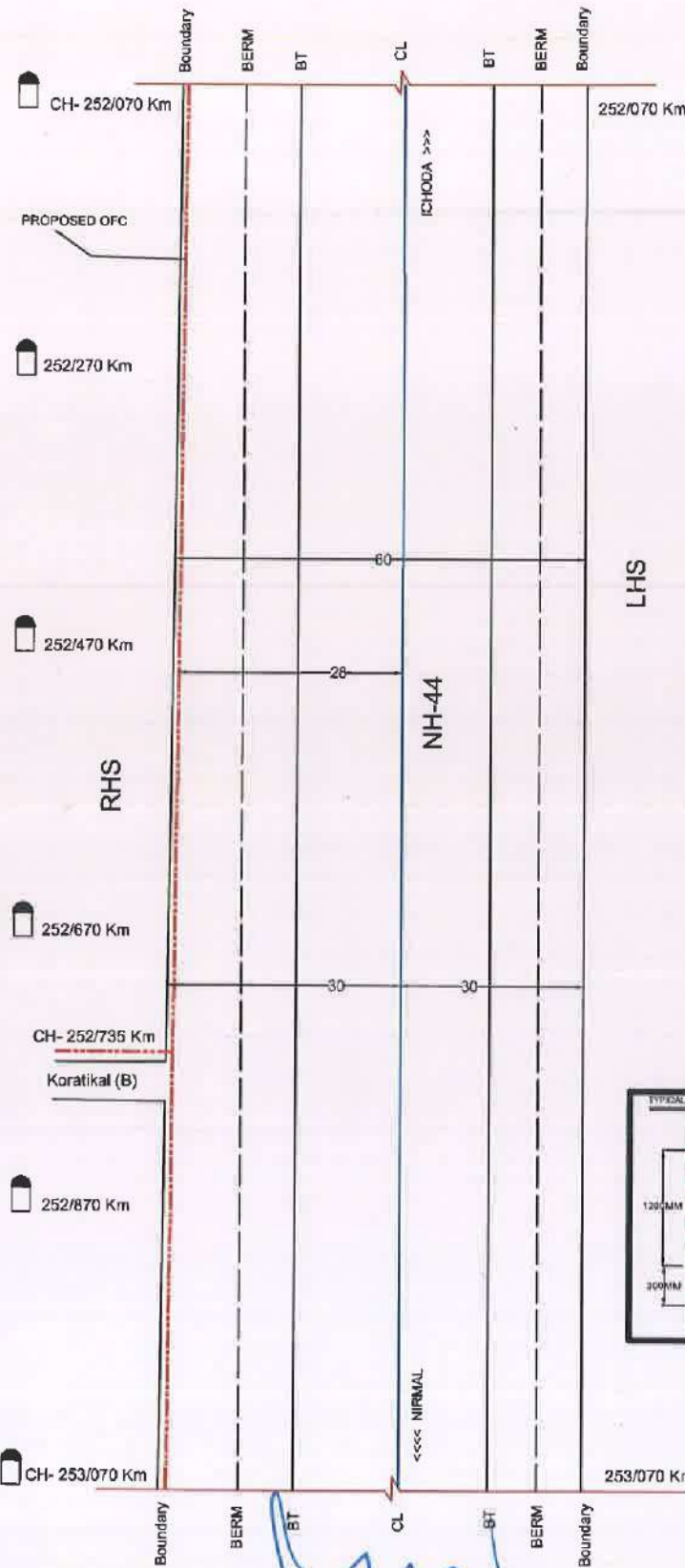
All Dimensions are in Meters

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# NH-44 - 252/070 to 253/070 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Curve T/B Bridge
	Proposed OFC
SCALE	NOT TO SCALE

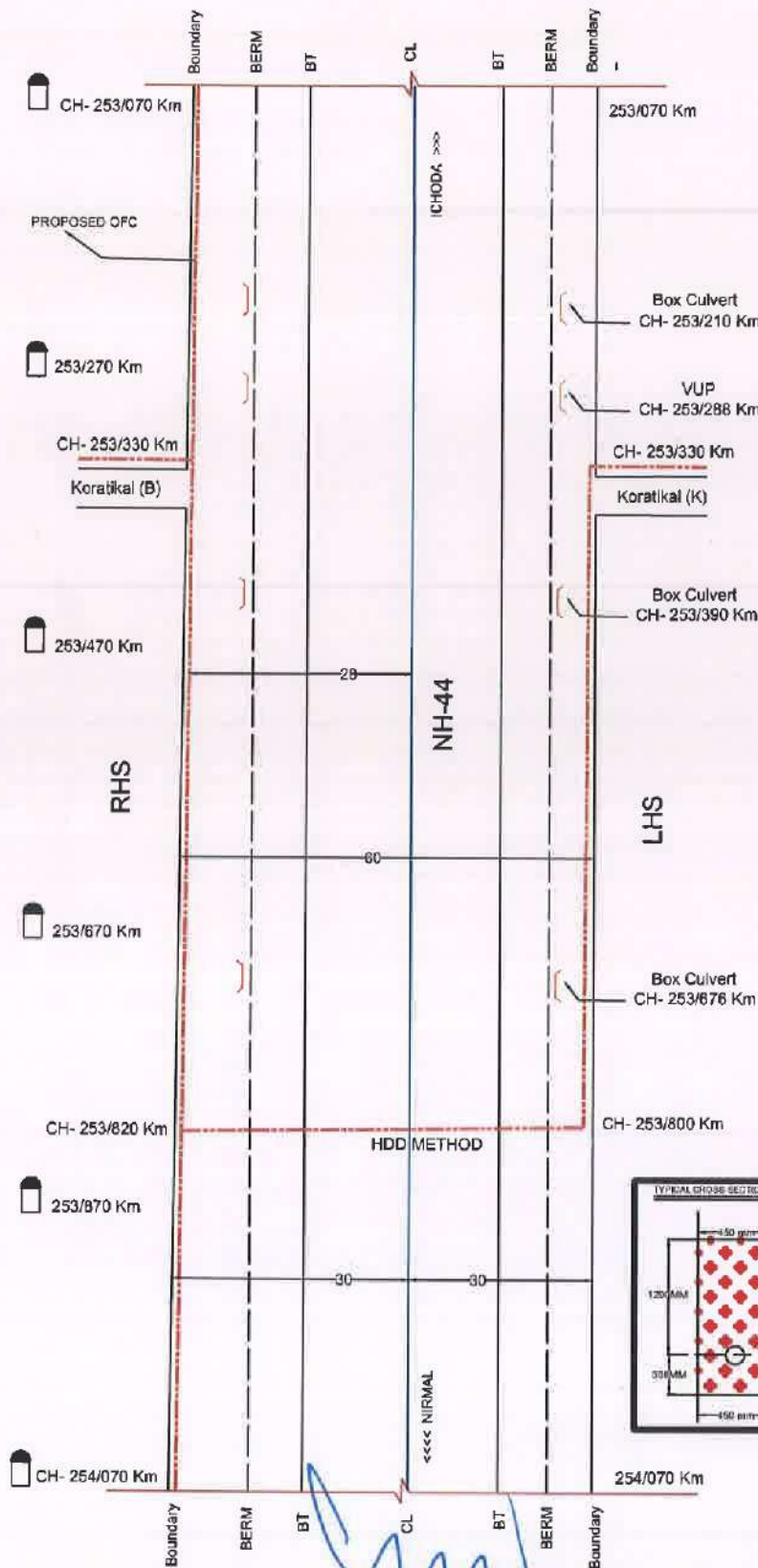
SECTION LENGTH=1000 M

All Dimensions are in Meters

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**National Highways Authority of India**  
**PIU, NIRMAL.**



# NH-44 - 253/070 to 254/070 km



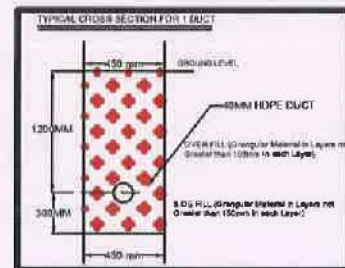
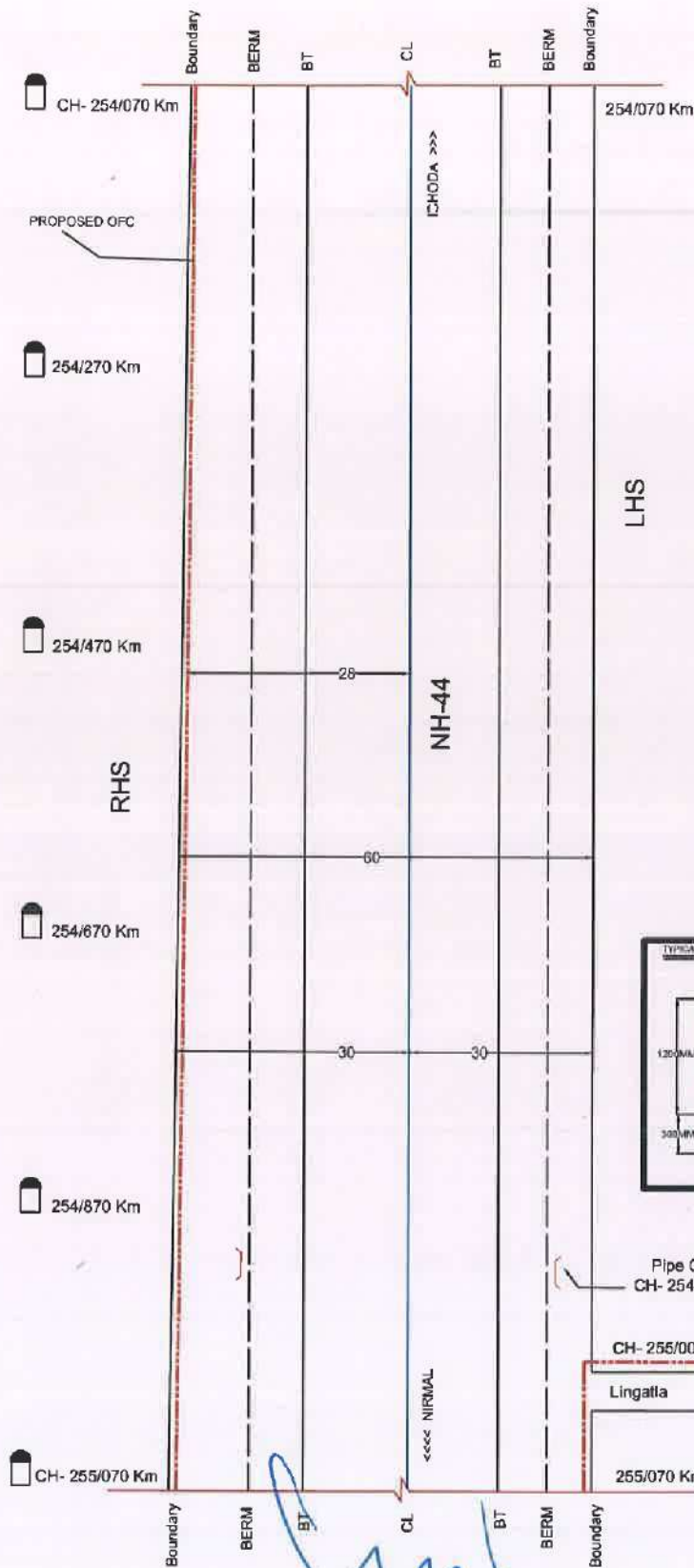
SECTION LENGTH=1000 M

All Dimensions are in Meters

PROJECT DIRECTOR  
National Highways Authority of India  
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# NH-44 - 254/070 to 255/070 km



LEGEND	
—	near CL
---	Boundary
---	BT line
---	Culvert / Bridge
---	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

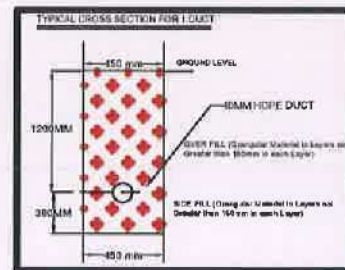
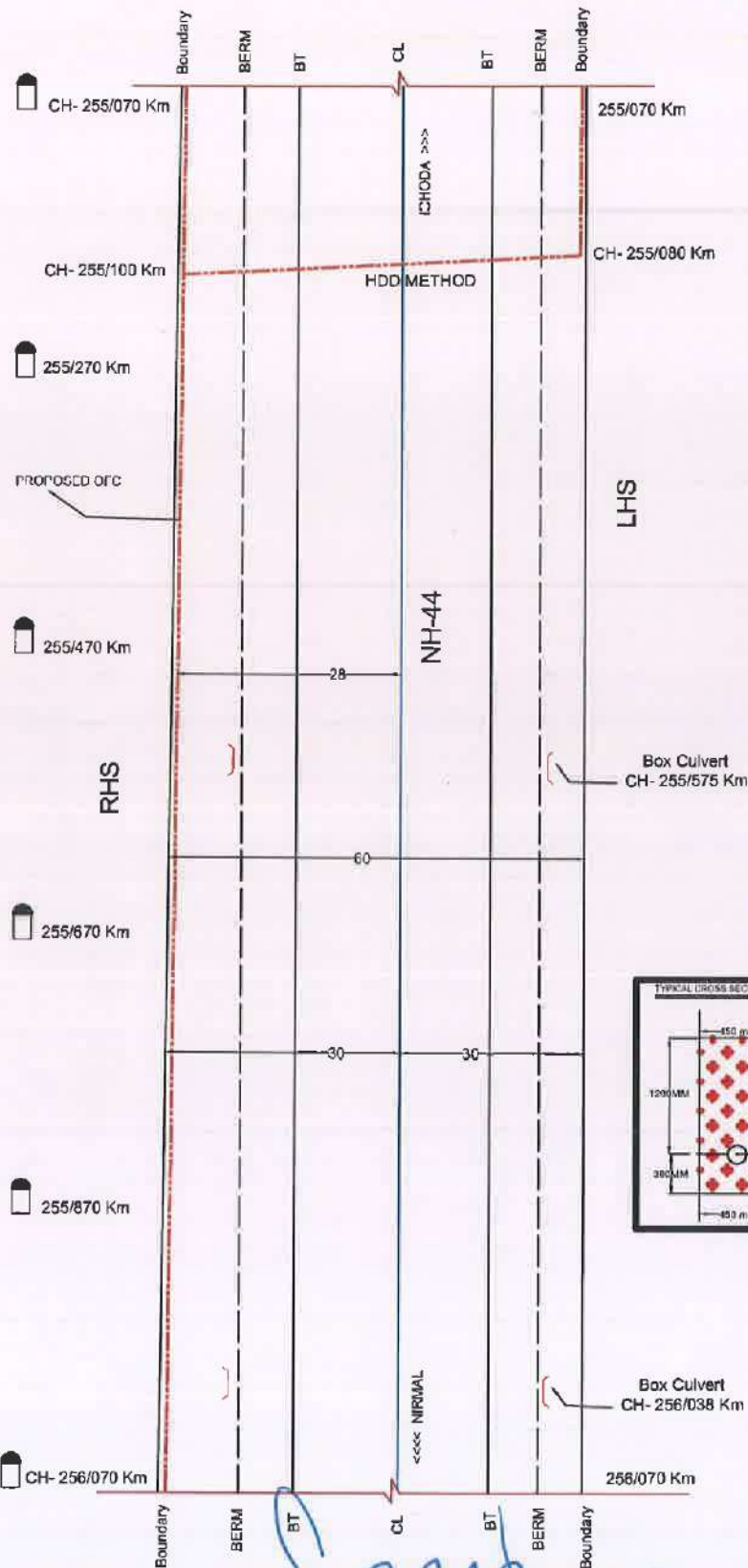
All Dimensions are in Meters

PROJECT DIRECTOR  
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# NH-44 - 255/070 to 256/070 km



LEGEND	
	ROAD CL
	Boundary
	BT/BERM
	Culvert / Bridge
	Proposed ORC
SCALE	NOT TO SCALE

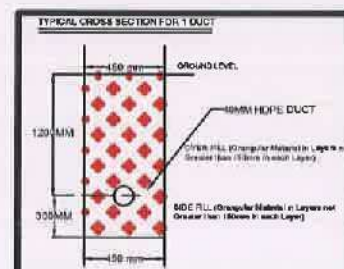
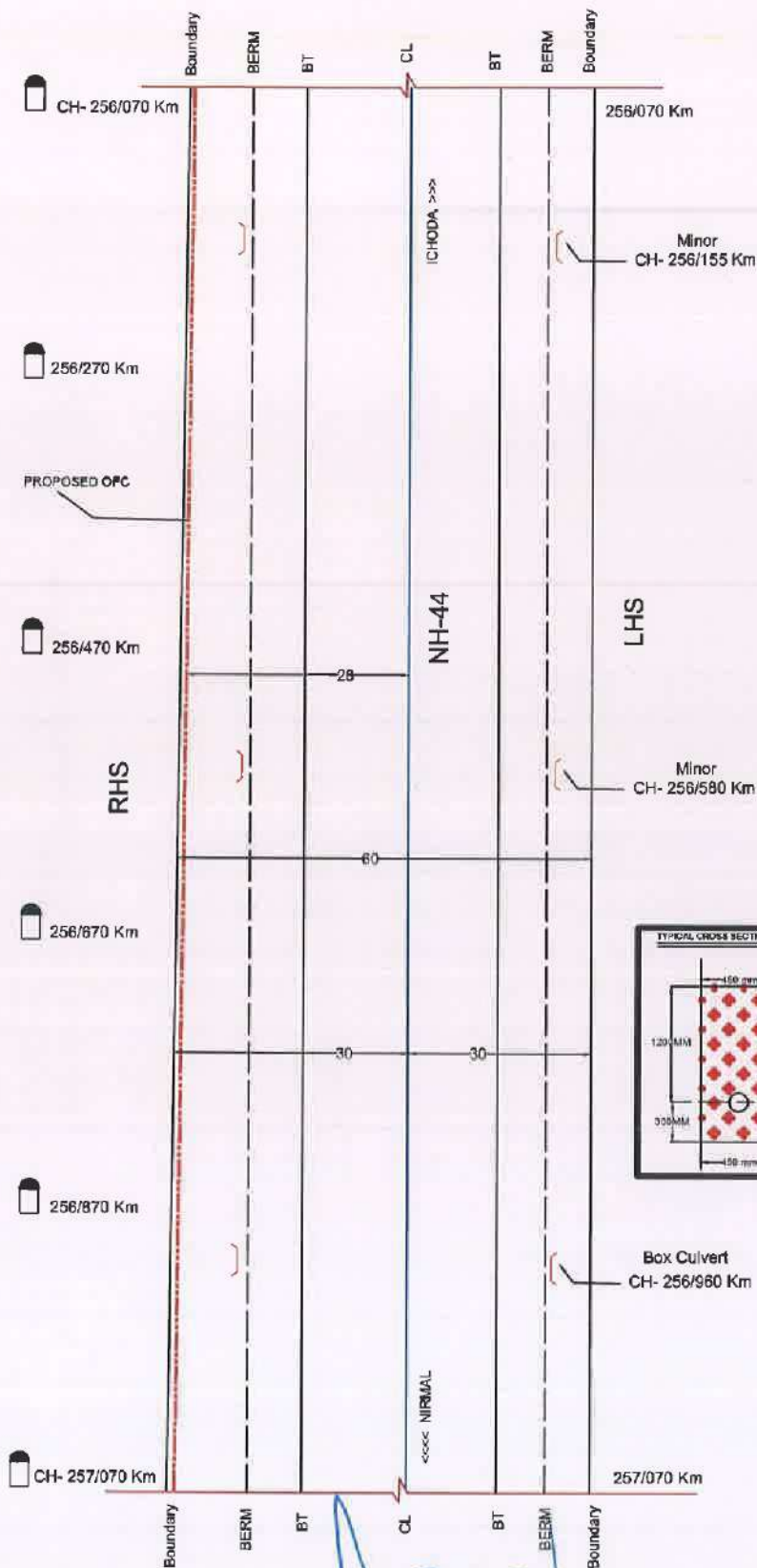
SECTION LENGTH=1000 M

All Dimensions are in Meters

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National Highways Authority of India  
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# NH-44 - 256/070 to 257/070 km



LEGEND	
—	ROAD CL
—	Boundary
—	BERM
—	Culvert / Bridge
—	Proposed OPC
SCALE	NOT TO SCALE

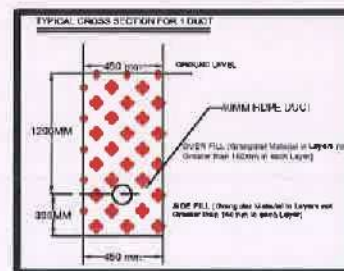
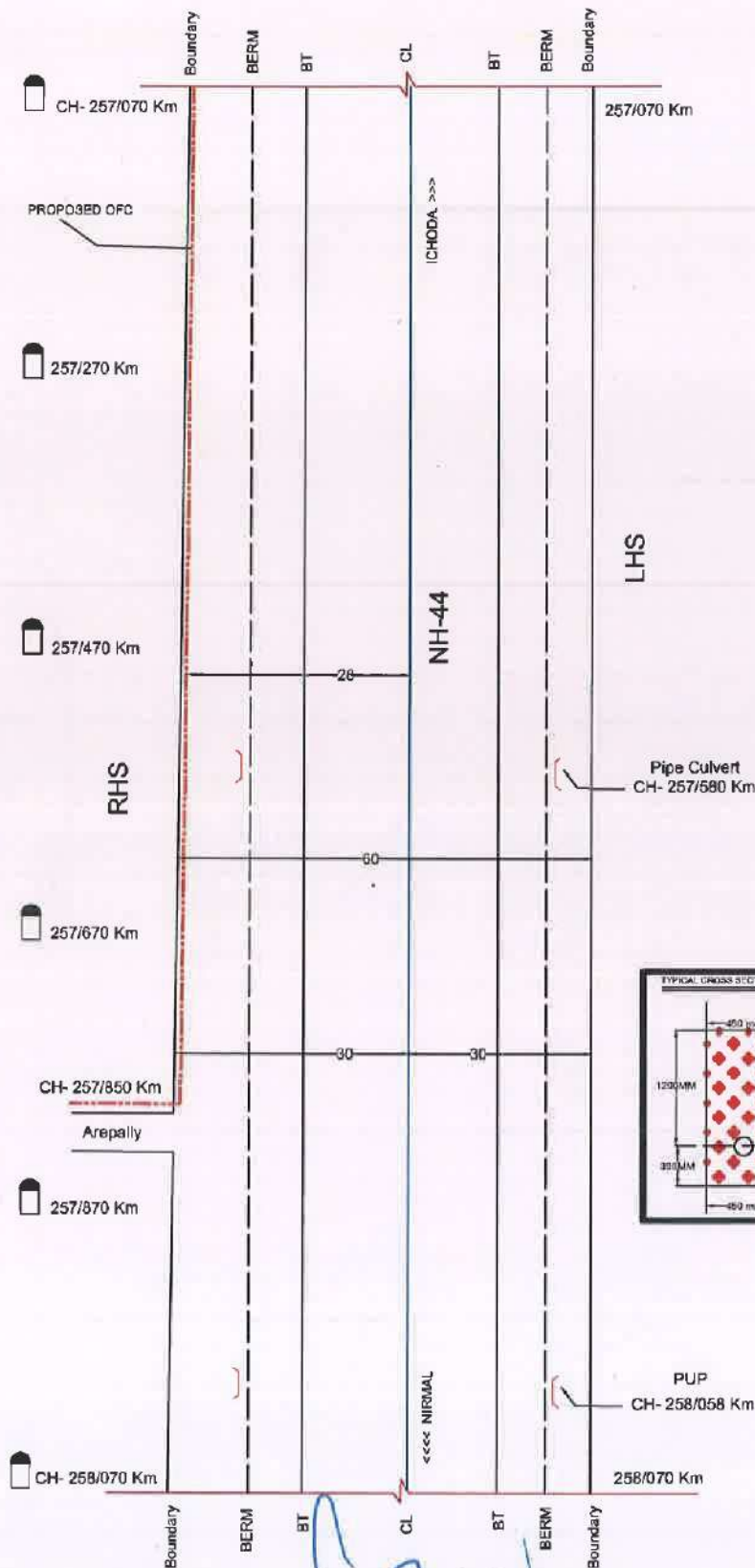
SECTION LENGTH=1000 M

All Dimensions are in Meters

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# NH-44 - 257/070 to 258/070 km



LEGEND	
	ROAD OR
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1000 M

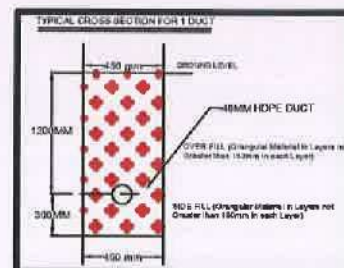
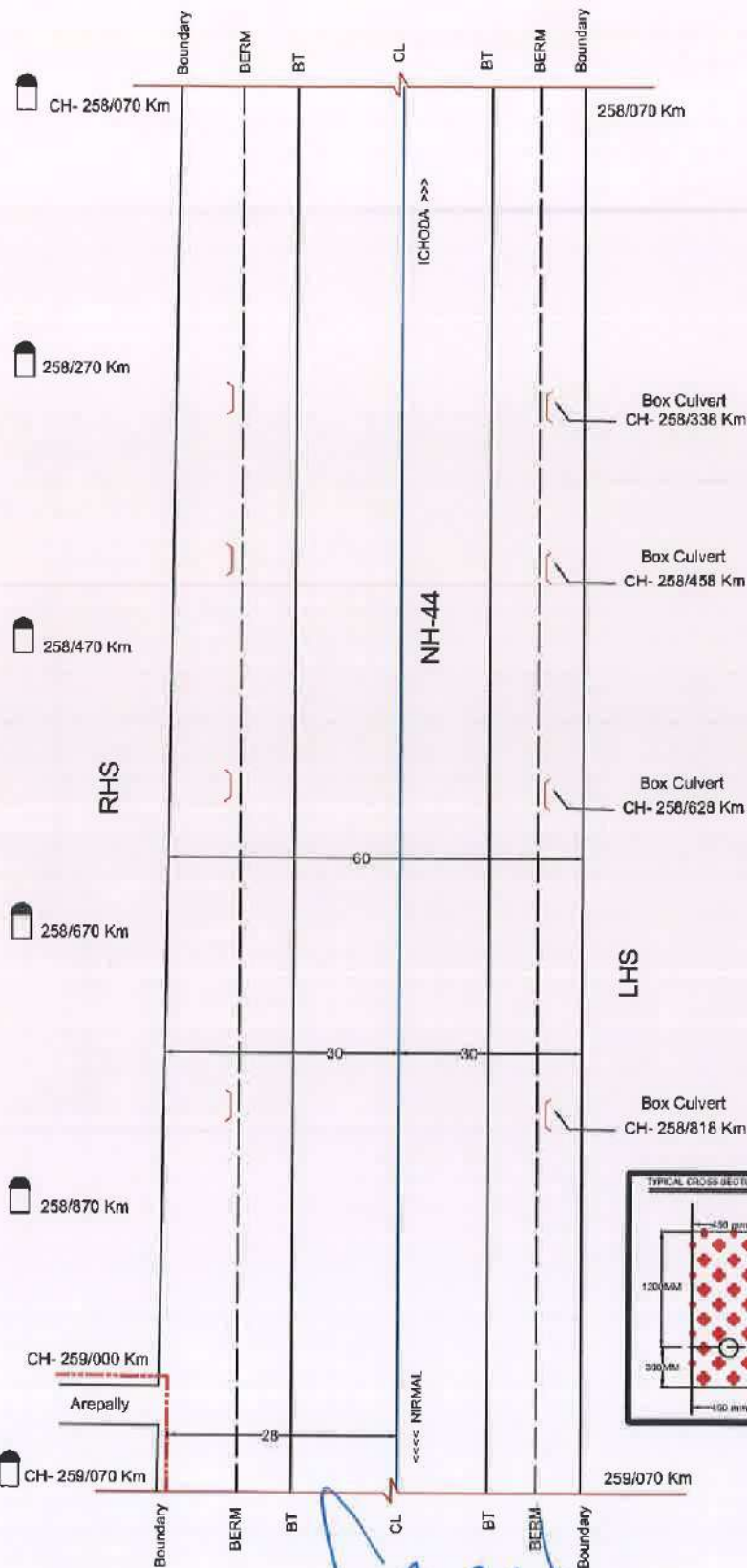
All Dimensions are in Meters

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# NH-44 - 258/070 to 259/070 km

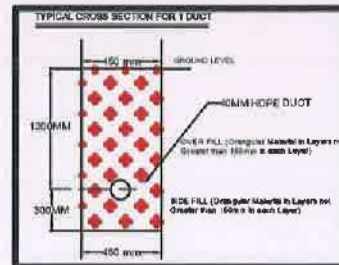
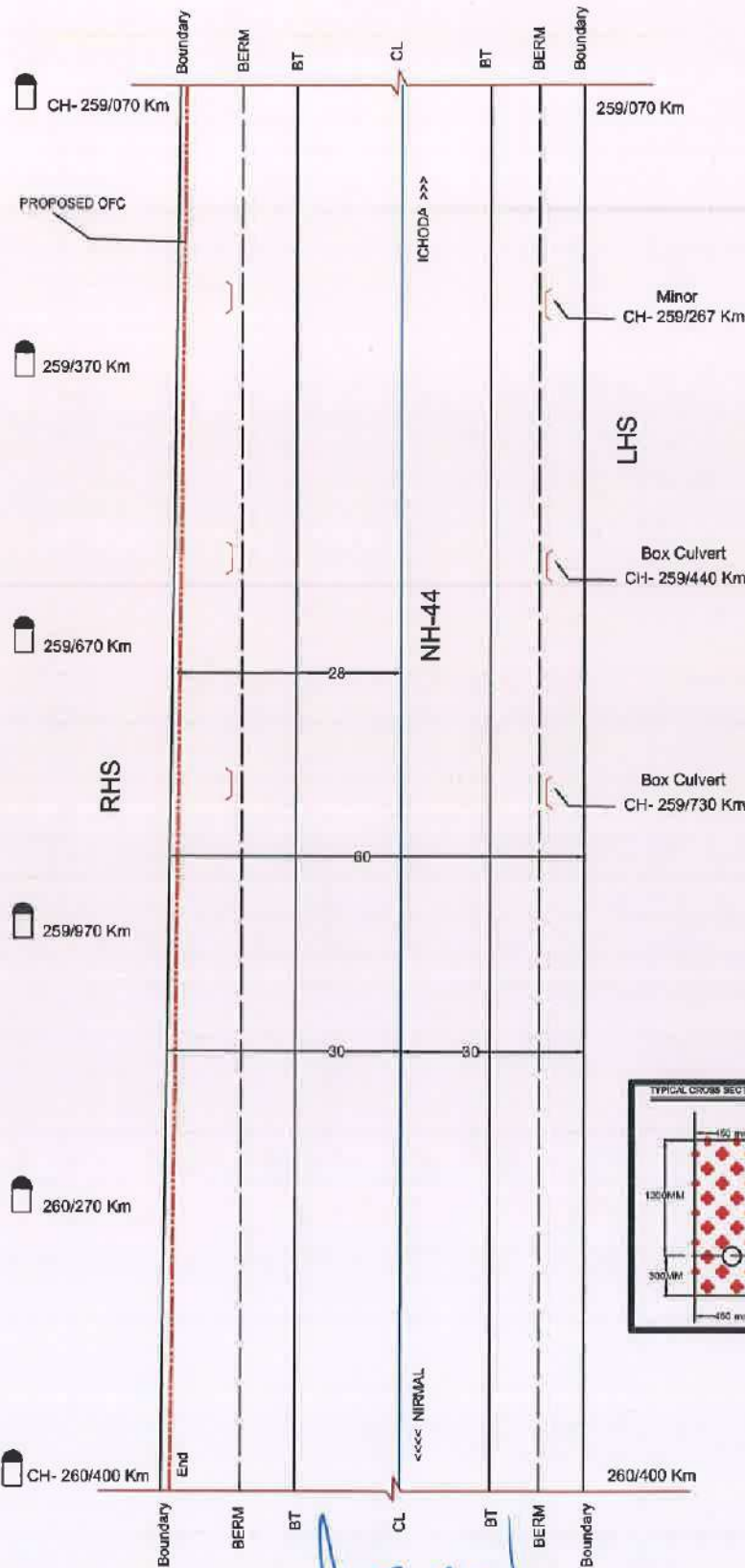


LEGEND	
ROAD CL	
BERM	
BT	
CL	
BERM	
BT	
Boundary	
Proposed DFC	
SCALE	NOT TO SCALE

PROJECT DIRECTOR  
National Highways Authority of India  
PHU, NPMAL. 1.



# NH-44 - 259/070 to 260/400 km



LEGEND	
	ROAD CL
	Boundary
	BERM
	Culvert / Bridge
	Proposed OFC
SCALE	NOT TO SCALE

SECTION LENGTH=1330 M

All Dimensions are in Meters

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