



कार्यालय कार्यपालन यंत्री लोक निर्माण विभाग राष्ट्रीय राजमार्ग
(पुरानी तहसीली के पास) संभाग सागर (म.प्र.)

Email:- eepwdnhsagar768@gmail.com



पत्र क्रमांक 2655 / कार्य / 2025-26,
प्रति,

सागर, दिनांक 31/12/2025

वन मण्डलाधिकारी
सामान्य वन मण्डल
जिला-छतरपुर (म0प्र0)

विषय:-

छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क्रमांक-43 एक्सटेंशन गुलगंज-अमानगंज-पवई- कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर संरक्षित वनभूमि कार्यपालन यंत्री लोक निर्माण विभाग, राष्ट्रीय राजमार्ग संभाग, सागर को उपयोग पर देने बावत् । प्रस्ताव क्रमांक-FP/MP/ROAD/30762/2017 ।

सन्दर्भ:-

- 1-भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय क्षेत्रीय कार्यालय भोपाल का पत्र क्र0-6-एमपीस 026 / 2019-बीएचओ / दिनांक 23.09.2025
- 2-कार्यालय प्रधान मुख्य वन संरक्षक एवं वन बल प्रमुख मध्य प्रदेश भोपाल का पत्र क्र एफ-5/865 / 2019/10-11/2424 भोपाल दिनांक 25.09.2025
- 3- कार्या. सामान्य वन मण्डल म0प्र0 का पत्र क्र/तक/2025/4715 छतरपुर दिनांक 30.09.2025
- 4- अनुविभागीय अधिकारी लो0नि0वि0रा0रा0 उपसंभाग छतरपुर का पत्र क्र0-891/तक0/2025-26 दिनांक 29.12.2025

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उपरोक्त विषयान्तर्गत लेख है कि संदर्भित पत्र क्र0-1 के द्वारा विषयांकित कार्य के लिये भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भोपाल ने विषयांकित प्रकरण की प्रथम चरण सैद्धांतिक अनुमति सर्शत प्रदान की गई है । संदर्भित पत्रों के माध्यम से सैद्धांतिक स्वीकृति में अधिरोपित समस्त शर्तों का शर्तवार पालन प्रतिवेदन प्रस्तुत करने का लेख किया गया है ।

अतः समस्त शर्तों का शर्तवार पालन प्रतिवेदन निम्नानुसार प्रस्तुत है:-

Compliance	User Agency Reply
A. Conditions which need to be complied prior to handing over of forest land by the State Forest Department	
1. The cost of compensatory afforestation on the CA land 61.00 ha degraded-forest land at the prevailing wage rates as per compensatory afforestation scheme (including the cost of survey, demarcation and erection of permanent pillars etc. as required for securing the land against encroachment) shall be deposited in advance with the State Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	Agreed & complied The User Agency has deposited an amount of Rs. 19102448.00 against CA Amount in CAMPA. Wide UTR No. CNRBR52025122973537211 (The copy of Deposit Details enclosed.)
2. The State Government shall charge the Net Present Value (NPV) for the 30.426 Ha, forest area to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03 / 2008 , 24/04/2008 and 09/05/2008 in IA No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt.II) dated 18/09/2003, as well as letter No. 5-2/2006-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 & 5-3/2011-FC(vol-1) dated 06/10/2022 in this regard.	Agreed & complied The User Agency has deposited an amount of Rs. 29141415.00 against NPV Amount in CAMPA wide As UTR No. CNRBR52025122973537211 (The copy of Deposit Details enclosed.)
3. All the funds received from the user agency under the project shall be transferred/ deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/).	Agreed & complied

	The User Agency has deposited an amount of Rs. 66401950.00 the same amount the CAMPA. As UTR No. CNRBR52025122973537211 & Inspection Fees Rs. 3726054.00 deposited by Challan No. 051/9999999 /0406/12/25/004316 dt. 26-12-2025. <i>(The copy of Deposit Details enclosed.)</i>
4. Complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.	Agreed & complied The User Agency has already submitted the FRA-2006 Certificate to the Forest Department. <i>(The copy of FRA - 2006 enclosed.)</i>
5. The left-out portions where green field alignment and curve improvement is being proposed in the alignment shall be reinstated to its original form and reclaimed at the cost of the project by the project proponent under the supervision of Forest Department. The same shall be surrendered to the Forest Department after completion of the projects. The detailed site improvement plan shall be submitted before submitting proposal for Stage-II approval.	Agreed The User Agency is agreed to the left-out portions where green field alignment and curve improvement is being proposed in the alignment shall be reinstated to its original form and reclaimed at the cost of the project by the project proponent under the supervision of Forest Department. The same shall be surrendered to the supervision of Forest Department.
6. The acoustic noise barrier system/ crash barrier system may be installed/ executed as per specification of IRC SP130-2022 and IRC-2015 wherever required during the construction of proposed road in consultation with the concern DFO.	Agreed
7. The State Govt. Has clarified that the diverted area in not passing through the any protected area but movement of wildlife is seen in the area, therefore as per the specification and suggestions given in the WII report for "Eco-friendly measure to mitigate impacts of linear infrastructure on Wildlife" shall be incorporated after consultation with the concerned DFO during the construction at the cost of project by the project proponent.	Agreed
8. The User Agency shall submit a detailed layout plan for the construction of 02 major bridges and 31 culverts/Minor Bridges, prior to the grant of Stage-II approval.	Agreed , Layout Plan enclosed
9. The road side plantation shall be carried out by the State Forest Department as per Scheme submitted and the requisite fund shall be deposited in CAMPA by the Project Proponent.	Agreed & complied The User Agency has deposited an amount of Rs. 18158087.00 in CAMPA wide UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
10. The User Agency shall submit an undertaking that no muck shall be disposed of in forest land.	Agreed The User Agency has agreed to No Muck will be disposed inside the Protected or Forest Areas.
11. The KML files of Diverted and CA area shall be uploaded on the e.Green watch portal with all requisite details prior to Stage-II Approval.	The condition is related to Forest Department, and The User Agency has ensured that the KML files of Diverted and CA area has been provided to the Forest Department.

12. Violation of any these Condition will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of Comprehensive Guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.	Agreed The User Agency has ensured that the violation of Forest (Conservation) Act, 1980 will never occurred in any Protected or Forest Areas.
13. The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/).	Agreed The User Agency has ensured that The compliance report will be uploaded on e-portal (https://parivesh.nic.in/)
14. In case working permission is granted by the State Forest Department, a copy of the same shall be submitted with compliance report of Stage-I approval.	Agreed
B. Conditions which need to be strictly complied on field after handing over of forest land to the User Agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approvals:	
1. Legal Status of the forest land shall remain unchanged.	Agreed
2. Compensatory afforestation shall be taken up by the Forest Department over 61.00 Ha degraded Forest Land, Compartment No. P-712, Piprihar, Forest Range – Luvkushnagar Forest Division-Chhatarpur at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Agreed The User Agency has deposited the same amount Rs. 29141415.00 the CAMPA. As UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
3. Additional amount of the NPV of the diverted Forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall also be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.	Agreed Under Taking enclosed.
4. The User Agency shall restrict felling of trees to the enumerated 1883 numbers/minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department or the cost of felling of trees shall be deposited by the User Agency with the State Forest Department and State Forest Department shall undertake the fellings..	Agreed The User Agency has agreed to felling of Trees inside the Protect and Forest Area will be minimum or as per the minimum requirement of Project.
5. Boundary of the diverted forest land shall be suitably demarcated on ground at the project cost.	Agreed The User Agency has agreed to Boundary of the diverted forest land shall be suitably demarcated on ground at the project cost
6. Speed regulating signages will be erected all along the road at regular intervals in the Protected Areas/ Forest Areas.	Agreed
7. Layout plan of the proposal shall not be changes without prior approval of Central Government.	Agreed
8. No Labour camp shall be established on the forest land.	Agreed
9. The User Agency shall provide alternate fuels preferably LPG to the labourers and staff working at the site so as to prevent any damage and pressure on the nearby forests.	Agreed

10. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.	Agreed
11. The period of diversion under this approval shall be co-terminus with the project life.	Agreed
12. The Forest land shall not be used for any purpose other than that specified in the project proposal.	Agreed
13. The User Agency and the State Government shall ensure compliance to provisions of all the Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to this project, if any for the time being in force, as applicable to the project.	Agreed
14. The forest land proposed to be diverted shall under no circumstance be transferred to any other agencies, department or person without prior approval of central Government.	Agreed
15. Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife.	Agreed

Encl:- As Above.

पृ. क्रमांक 2656 / कार्य / 2025-26,
प्रतिलिपि:-

(पंकज व्यास)
कार्यपालन यंत्री
लो.नि.वि.रा.रा., संभाग सागर
सागर, दिनांक 31/12/2025

- 1- मुख्य अभियंता लो.नि.वि.रा.रा. परिक्षेत्र, निर्माण भवन भोपाल की ओर उक्त शर्तों के परिपालन में आने वाली संभावित लागत में वृद्धि के संबंध में सूचनार्थ एवं आवश्यक कार्यवाही हेतु संप्रेषित।
- 2- क्षेत्रीय अधिकारी, एम.ओ.आर.टी.एण्ड.एच. भोपाल की ओर सूचनार्थ संप्रेषित।
- 3- अनुविभागीय अधिकारी लो0नि0वि0रा0रा0 उपसंभाग छतरपुर की ओर कडाई से पालनार्थ प्रेषित।

कार्यपालन यंत्री
लो.नि.वि.रा.रा., संभाग सागर

कार्यालय कार्यपालन यंत्री, लोक निर्माण विभाग रा0रा0 संभाग सागर (म0प्र0)

पत्र क्र0

2654 / कार्य / 2025-26

सागर दिनांक 31/12/25

Undertakings

विषय:-

छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क्रमांक-43 एक्सटेंशन गुलगंज-अमानगंज-पवाई-कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर संरक्षित वनभूमि कार्यपालन यंत्री लोक निर्माण विभाग, राष्ट्रीय राजमार्ग संभाग, सागर को उपयोग पर देने बावत् ।
(ऑनलाईन प्रकरण क्रमांक -FP/MP/ROAD/30762/2017)

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उपरोक्त विषयान्तर्गत लेख है कि विषयांकित कार्य के लिये प्रथम चरण की सैद्धांतिक स्वीकृति प्रदान की गई है। सैद्धांतिक स्वीकृति में लगाई गई शर्तों के पालन का वचन पत्र निम्नानुसार प्रस्तुत है:-

- 1- सैद्धांतिक स्वीकृति की शर्त क्र0-(A-10) का पालन किया जाता है-
प्रभावित वन क्षेत्र में किसी भी प्रकार का कूड़ा-कंकट (MUCK) इकट्ठा नहीं किया जायेगा जिसके पालन हेतु आवेदक संस्थान वचनबद्ध रहेगा ।
- 2- सैद्धांतिक स्वीकृति में लगाई गई शर्त क्रमांक (B-3) का पालन किया जाता है-
सैद्धांतिक स्वीकृति में एक वचन पत्र के लिये लेख किया गया है कि एक्सपर्ट कमेटी से रिपोर्ट मिलने और माननीय सुप्रीम कोर्ट द्वारा उसे फाइनल करने के बाद, अगर डायवर्टेड फॉरेस्ट लैंड के नुकसान के लिए कोई एक्स्ट्रा रकम देनी होगी, तो यूजर एजेंसी वह रकम भी राज्य सरकार के CAMPA अकाउंट में जमा करेगी। यूजर एजेंसी इसके लिए वचन बद्ध है।
- 3- योजना में प्रभावित वन भूमि के बदले क्षतिपूर्ति वृक्षारोपण कार्य के अवधि में अतिरिक्त राशि की मांग किये जाने पर अंतर की राशि जमा करने हेतु आवेदक संस्थान वचन बद्ध रहेगा ।

Ab

उपयंत्री,
लो0नि0वि0रा0रा0
उपसंभाग छतरपुर

अनुविभागीय अधिकारी,
लो0नि0वि0रा0रा0
उपसंभाग छतरपुर

कार्यपालन यंत्री
लो0नि0वि0रा0रा0
संभाग सागर (म0प्र0)

प्रति, 2631

वन मण्डलाधिकारी
सामान्य वनमण्डल छतरपुर
छतरपुर (म.प्र.)

विषय:-

छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क-43 विस्तार गुलगंज-अमानगंज-पवाई-कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर वनभूमि कार्यपालन यंत्री लोक निर्माण विभाग राष्ट्रीय राजमार्ग संभाग को उपयोग पर देने बाबत। क्षतिपूर्ति वैकल्पिक वृक्षारोपण एवं एन.पी.डी की राशि मार्ग किनारे रोपण योजना की राशि जमा करने बाबत।

संदर्भ :-

कार्यालय, सामान्य, वनमण्डल छतरपुर म.प्र. का पत्र क्रमांक तकनीकी/2025/2991 छतरपुर दिनांक 22.12.2025

उपरोक्त विषयांतर्गत लेख है कि यह मार्ग इस कार्यालय के कार्यक्षेत्र में प्रस्तावित है। संदर्भित पत्र के द्वारा विषयांकित कार्य प्रथम चरण की सैद्धांतिक स्वीकृति शर्त प्रदान की गई है। पत्र में वर्णित अनुसार सैद्धांतिक स्वीकृति में रोपित शर्त क्रमांक-(A)1 के अनुसार में प्रभावित वनभूमि रकवा 30.426 हेक्टेयर के एवज में दुगने बिगड़े वनों के सुधार हेतु रकवा 61.00 हेक्टेयर की क्षतिपूर्ति वनीकरण की राशि 1,91,02,448.00, शर्त क्रमांक -(A)2 के अनुसार नेट प्रजेन्ट वैल्यू (एनपीडी) की राशि 957780X30.426 = 2,91,41,415.00 एवं (A)9 के अनुसार प्रकरण में मार्ग के किनारे-किनारे रोपण योजना राशि रु. 1,81,58,087.00 इस प्रकार वनभूमि की नेट प्रजेन्ट वैल्यू की कुल राशि रु. 6,64,01,950.00 केम्पा मद में जमा की गई Campa fund राशि का विवरण निम्नानुसार है:-

Campa fund में challan द्वारा भेजी गई राशि	क्षतिपूर्ति वैकल्पिक वृक्षारोपण राशि	1,91,02,448.00
	एन.पी.डी की राशि	2,91,41,415.00
	मार्ग किनारे रोपण योजना की कुल वयय की राशि	1,81,58,087.00
	Total	6,64,01,950.00
Challan date - 23-12-2025 Application No. 6130762145		
Beneficiary Branch and code:		
Proposal No. 6-MPC026/2019-BHO		
Beneficiary A/C No. 150766130762145		
UTR No. -UBIN09996335 CHRB R 52025122973537211		
क्षतिपूर्ति वनीकरण की राशि 1,91,02,448.00 रुपये का 10 प्रतिशत पर्यवेक्षण शुल्क 1910245.00		1910245.00
मार्ग के किनारे-किनारे किये जाने वाले वृक्षारोपण की राशि रु. 1,81,58,087.00 रुपये का 10 प्रतिशत पर्यवेक्षण शुल्क 1815809.00		1815809.00
	Total	3726054.00
राशि रु. 3726054.00 का चालान क्रमांक 051/9999999/0406/12/25/004316 दिनांक 26.12.2025 को जमा किया गया है		

अतः आपसे निवेदन है कि मार्ग के कार्य में वन भूमि के व्यवर्तन हेतु द्वितीय स्टेज की अनुमति प्रदान करने हेतु आवश्यक कार्यवाही करने का कष्ट करे।

सहपत्र:- Campa fund

में किए गए भुगतान प्रति एवं चालान की प्रति

पृ. क्रो 2632 रा.रा./ व.ले.लि./

सागर दिनांक

कार्यालय यंत्री

लो.नि.वि.रा.संभाग सागर

20/12/25

1. अपर प्रधान वन संरक्षक (भ-प्रबंध) सतपुडा भवन भोपाल की ओर सूचनार्थ संप्रेषित।
2. मुख्य अभियंता क्षेत्रीय अधिकारी सड़क परिवहन एवं राजमार्ग मंत्रालय, निर्माण भवन भोपाल की ओर सूचनार्थ संप्रेषित।
3. मुख्य अभियंता लो.नि.वि.रा.रा. परिक्षेत्र, निर्माण भवन भोपाल की ओर सूचनार्थ संप्रेषित।
4. मुख्य वन संरक्षक वन वृत्त छतरपुर की ओर सूचनार्थ संप्रेषित।
5. कलेक्टर जिला छतरपुर की ओर सूचनार्थ संप्रेषित।
6. अनुविभागीय अधिकारी लो.नि.वि.रा.रा. उपसंभाग छतरपुर की ओर सूचनार्थ प्रेषित।

सहपत्र:- शून्य

कार्यालय यंत्री

लो.नि.वि.रा.संभाग सागर



AGENCY COPY

यूनियन बैंक Union Bank of India

NEFT / RTGS CHALLAN for CAMPA Funds

Date : 23-12-2025

Agency Name.	NHMP
Application No.	6130762145
MoEF/SG File No.	6-MPC026/2019-BHO
Location.	MADHYA PRADESH
Address.	MPRDC, 45A, Arera Hills Bhopal Bhopal
Amount(in Rs)	66401950/-

Amount in Words : Six Crore Sixty-Four Lakh One Thousand Nine Hundred and Fifty Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	MADHYA PRADESH CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150766130762145 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY

यूनियन बैंक Union Bank of India



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This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

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Back

2025, 03:42

Cyber Treasury



Department of Finance, Government of Madhya Pradesh
Acknowledgement Receipt for Online Tax Payment
to M.P. State Government



TIN (Tax payment Identification Number) / Enrollment / Registration No.	
Depositor/Dealer Name	Ram Raja construction company
Address	Jer bhawan , PRITHVIPUR, Niwari, Madhya Pradesh - 472336
District selected for Payment	Chhatarpur
Unique Registration Number (URN)	MPTURN261220250010418
Department and Office Name	Common Challan Entry, Forest
Challan Payment Period	2025-2026

Purpose Details

CRN	Assessment/ Concerning Period	Head of Account	Challan Identification Number (CIN)	Challan No.	Amount(Rs.)
MPT040626122025000183	2025-12-26 to 2026-01-10	0406-01-800-0229 (Other Receipts- Miscellaneous receipts)	CNRB0002073040626122025509176	051/9999999/0406/12/25/004316	3726054.00

Total Amount(in figures)	37,26,054.00
Total Amount(in words)	Thirty Seven Lakh Twenty Six Thousand Fifty Four Rupees Only
Name and Code of the Bank	CANARA BANK (15)
Bank Reference Number	207326122025672951
Scroll No	20251226
Scroll Date	26/12/2025
Date of Transaction / Time of Transaction (HH24:mm:ss)	26/12/2025 17:11:57
Transaction Status	Success

कार्यालय कलेक्टर, (जन जातीय कार्य विभाग) जिला छतरपुर म.प्र.

क्र./वन अधिकार/2022-23/10688
प्रति,

छतरपुर दिनांक 26/10/22

कार्यपालन यंत्री,
लोक निर्माण विभाग(रा.रा.)
सागर संभाग सागर

विषय :-

संदर्भ :-

वन अधिकार अधिनियम 2006 अंतर्गत प्रपत्र-1 प्रदाय करने बावत।
आपका कार्यालयीन पत्र क्रमांक /366/कार्य/2020-21/सागर दिनांक 01.02.2021 प्राप्ति दिनांक 30.07.2021

—00—

विषयांतर्गत सन्दर्भित पत्र का अवलोकन करने का कष्ट करें, जिसके माध्यम से राष्ट्रीय राजमार्ग 43 (विस्तार) गुलगंज-अमानगंज-पवई-कटनी मार्ग के खण्ड किमी. 0+00 से किमी. 43+00 तक (ग्राम गुलगंज से बराना नदी, ग्राम कुपी) चौड़ीकरण एवं एकरेखड़ सुधार कार्य में वन मण्डल छतरपुर के वन परिक्षेत्र बिजावर के क्षेत्रांतर्गत वन अधिकार अधिनियम 2006 के तहत विनिश्चय प्रमाण-पत्र चाहा गया है, उक्त के संबंध में अधिनियम में दिये गये प्रावधानों के अनुसार अनुविभागीय अधिकारी (राजस्व) बिजावर को सम्पूर्ण प्रकरण भेजा जाकर प्रस्ताव में वन अधिकार समिति, ग्राम सभा, एवं उपखण्ड स्तरीय समिति से नियमानुसार प्रस्ताव चाहा गया था जो कि उनके पत्र क्रमांक/984/वन.मा.अधि./वनाधिकार/2022 दिनांक 29.07.2022 प्राप्त हो चुका है।

उपखण्ड स्तरीय समिति का प्रस्ताव प्रमाण-पत्र, पत्र दिनांक 04.05.2022 उपखण्ड स्तरीय वन अधिकार समिति का ठहराव (विनिश्चय) दिनांक 11.01.2022, ग्राम सभा का कार्यवाही रजिस्टर दिनांक 11.01.2022 के आधार पर वन अधिकारों की मान्यता अधिनियम 2006 एवं नियम 2008 के अन्तर्गत कार्यपालन यंत्री लोक निर्माण विभाग(रा.रा.) सागर संभाग सागर के सन्दर्भित आवेदन पर ग्राम सभा पहाड़ी बावन के ग्राम सपौहां तहसील राजनगर के कम्पार्टमेंट कक्ष क्रमांक पी-00683 रकबा 8.212 हे० के विनिश्चय प्रमाण-पत्र देने के संबंध में विचारोपरान्त निर्णय लिया गया कि उक्त कक्ष क्रमांक के आस-पास स्थित ग्रामों में रहने वाले स्थानीय ग्रामीण परिवारों को जंगल से प्राप्त होने वाली आय अकास्टीय लघु वनोपज (N.T.F.P.) एवं अन्य तेदुपत्ता संग्रहण जो कि कम्पनी द्वारा एवं म०प्र० शासन तथा भारत शासन के वर्तमान एवं इस संबंध में भविष्य के निर्णय के अनुसार एवं मुआवजा/कार्यवाही विधि अनुसार संपादित की जावेगी।

अतः पत्र के साथ संलग्न प्रमाणित कार्यवाही विवरण उपखण्ड स्तरीय समिति का प्रस्ताव प्रमाण-पत्र दिनांक 04.05.2022, उपखण्ड स्तरीय वन अधिकार समिति का ठहराव (विनिश्चय) दिनांक 11.01.2022, ग्राम सभा का कार्यवाही रजिस्टर दिनांक 11.01.2022, के आधार पर जिला स्तरीय वन अधिकार समिति द्वारा प्राप्त प्रस्ताव में लिये गये निर्णय के अनुसार ही विनिश्चय प्रमाण-पत्र जारी किया जा रहा है।

उपरोक्त संलग्न निर्णयों के अनुसार ही कार्यवाही सम्पादित की जाना अनिवार्य होगा। पत्र के साथ विनिश्चय प्रमाण पत्र तथा अन्य सहपत्र संलग्न कर आवश्यक कार्यवाही हेतु सम्प्रेषित है।

संलग्न - उपरोक्तानुसार।

जिला संयोजक

जनजातीय कार्य विभाग

छतरपुर म.प्र.

छतरपुर दिनांक 26/10/22

पू.क्र./वन अधिकार/2022-23/10688

प्रतिलिपि :-

- 1- वन मण्डलाधिकारी सामान्य वन मण्डल छतरपुर म०प्र० की ओर आवश्यक कार्यवाही हेतु।
- 2- खनिज अधिकारी जिला छतरपुर की ओर आवश्यक कार्यवाही हेतु।
- 3- अनुविभागीय अधिकारी (राजस्व) बिजावर जिला छतरपुर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

जिला संयोजक

जनजातीय कार्य विभाग

छतरपुर म.प्र.

FORM -I
(For projects linear projects)

Government of M.P.

Office of the District Collector, Chhatarpur

FRA/Tribal/2022-23 10693

Chhatarpur Date 26/10/22

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MOEF) Government of India's letter No.11-9/98-FC(pt.) dated 3rd August 2009 wherein the MOEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 ('FRA' for short) on the forest land proposed to be diverted For Non Forest purpose read with MOEF's letter dated 5th February 2013 wherein MOEF issued certain relaxation in respect of linear projects, it is certified that total area 30,426 hec. Hectares in Compartment No P-71,321,322,323,347,370,3-69,374,368,371,373,428,429,427,432 Forest Land and in favour of MPPWD Sagar (MP) for a part of Gulganj-Amanganj-Pawai-Katni Road NH-43 Ext.Details are given below.

It is further certified that :

- (a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 30,426 in Compartment No P-71,321,322,323,347,370,3-69,374,368,371,373,428,429,427,432 of forest land A copy of records of all consultation and meetings of the Forest Rights Committee (s), Gram Sabha (s), Sub-Division Level Committee (s) and the District Level Committee are enclosed as Annexure ---to--- Annexure.
- (b) The diversion of forest land and Revenue forest for facilities managed by the Government as required under section 3 (2) of the FRA have been completed and the Gram Sabhas have given their consent to it.
- (c) The proposal does not involve recognized rights of Primitive Tribal Groups and pre-agricultural communities.

Encl: As above

Collector
District Chhatarpur
जिला छतारपुर (म.प्र.)



MP Forest
Department

कार्यालय सामान्य, वन मंडल छतरपुर म. प्र.

जवाहर रोड, छतरपुर (म.प्र.) 471001 ☎ 07682-245316 (O.), 245316 (Fax)

E-mail: df@cthpur.mp.gov.in

क्रमांक/तकनीकी/2025/4715
प्रति,

छतरपुर, दिनांक 30/09/25

वन परिक्षेत्राधिकारी
परिक्षेत्राधिकारी बिजावर
विषय :- छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क्रमांक-43 एक्सटेंशन गुलगंज-अमानगंज-
पवई-कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर वनभूमि कार्यपालन यंत्री,
लोक निर्माण विभाग, राष्ट्रीय राजमार्ग संभाग को उपयोग पर देने यावत्।
(Proposal No. FP/MP/ROAD/30762/2017)
संदर्भ :- अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध) भोपाल का पत्र क्रमांक./एफ-5/865/2019/
10-11/2424 भोपाल दिनांक 05.09.2025

विषयांतर्गत संदर्भित पत्र द्वारा छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क्रमांक-43
एक्सटेंशन गुलगंज-अमानगंज- पवई-कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर वनभूमि
के प्रकरण में निर्धारित शर्तों के अधीन सैद्धांतिक स्वीकृति जारी की गई है।

प्रकरण में रोपित शर्त क्रमांक (A) 9 के अनुसार प्रकरण में मार्ग के किनारे-किनारे रोपण
योजना तैयार की जानी है। अतः आपको निर्देशित किया जाता है कि प्रकरण में मार्ग के किनारे-किनारे
रोपण योजना तैयारकर 04 प्रतियों में इस कार्यालय को उपलब्ध करवायें, ताकि रोपित शर्त की पूर्ति की
जा सके।

वन मण्डलाधिकारी

सा. वनमण्डल छतरपुर

छतरपुर, दिनांक 30/09/25

पृष्ठां. क्रमांक/तकनीकी/2025/4716

प्रतिलिपि :- कार्य पालन यंत्री, लोक निर्माण विभाग, राष्ट्रीय राजमार्ग संभाग-सागर की ओर सूचनार्थ
एवं आवश्यक कार्यवाही हेतु प्रेषित।

वन मण्डलाधिकारी

सा. वनमण्डल छतरपुर

कार्यालय अनुविभागीय अधिकारी लोक निर्माण विभाग रा0रा0 उपसंभाग छतरपुर (म0प्र0)

क्र0 / 891 / तक0 / 2025-26 /

छतरपुर दिनांक 29.12.2025

प्रति,

कार्यपालन यंत्री,
लोक निर्माण विभाग रा0रा0
संभाग सागर (म0प्र0)

विषय:- छतरपुर जिले में प्रस्तावित राष्ट्रीय राजमार्ग क्रमांक-43 एक्सटेंशन गुलगंज-अमानगंज-पवई-कटनी मार्ग के चौड़ीकरण/निर्माण हेतु 30.426 हेक्टेयर संरक्षित वनभूमि कार्यपालन यंत्री लोक निर्माण विभाग, राष्ट्रीय राजमार्ग संभाग, सागर को उपयोग पर देने बावत् । प्रस्ताव क्रमांक-FP/MP/ROAD/30762/2017 ।

सन्दर्भ:- 1- भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय क्षेत्रीय कार्यालय भोपाल का पत्र क्र0-6-एमपीस 026 / 2019-बीएचओ / दिनांक 23.09.2025
2-कार्यालय प्रधान मुख्य वन संरक्षक एवं वन बल प्रमुख मध्य प्रदेश भोपाल का पत्र क्र.-एफ-5 / 865 / 2019 / 10-11 / 2424 भोपाल दिनांक 25.09.2025
3- कार्यालय सामान्य वन मण्डल म0प्र0 का पत्र क्र / तकनीकी / 2025 / 4715 छतरपुर दिनांक 30.09.2025

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उपरोक्त विषयान्तर्गत लेख है कि संदर्भित पत्र क्र0-1 के द्वारा विषयांकित कार्य के लिये भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भोपाल ने विषयांकित प्रकरण की प्रथम चरण सैद्धांतिक अनुमति सर्शत प्रदान की गई है । संदर्भित पत्रों के माध्यम से सैद्धांतिक स्वीकृति मे अधिरोपित समस्त शर्तों का शर्तवार पालन प्रतिवेदन प्रस्तुत करने का लेख किया गया है ।

अतः समस्त शर्तों का शर्तवार पालन प्रतिवेदन निम्नानुसार प्रस्तुत है:-

Compliance	User Agency Reply
A. Conditions which need to be complied prior to handing over of forest land by the State Forest Department	
1. The cost of compensatory afforestation on the CA land 61.00 ha degraded-forest land at the prevailing wage rates as per compensatory afforestation scheme (including the cost of survey, demarcation and erection of permanent pillars etc. as required for securing the land against encroachment) shall be deposited in advance with the State Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	Agreed & complied The Executive Engineer, Division – Sagar, MPPWD (NH), has deposited an amount of Rs. 19102448.00 against CA Amount in CAMPA. Wide UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
2. The State Government shall charge the Net Present Value (NPV) for the 30.426 Ha, forest area to be diverted under this proposal from	Agreed & complied The Executive Engineer, Division – Sagar,

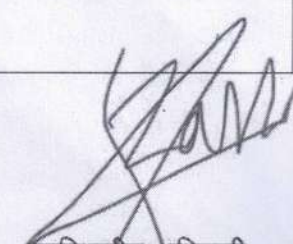
the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03 / 2008 , 24/04/2008 and 09/05/2008 in IA No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt.II) dated 18/09/2003, as well as letter No. 5-2/2006-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 & 5-3/2011-FC(vol-1) dated 06/10/2022 in this regard.	MPPWD (NH), has deposited an amount of Rs. 29141415.00 against NPV amount in CAMPA. Wide UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
3. All the funds received from the user agency under the project shall be transferred/ deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/).	Agreed & complied The Executive Engineer, Division – Sagar, MPPWD (NH), has deposited an amount of Rs. 66401950.00 in the CAMPA. Wide UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
4. Complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.	Agreed & complied The Executive Engineer, Division – Sagar, MPPWD (NH), has already submitted the FRA-2006 Certificate to the Forest Department. <i>(The copy of FRA - 2006 enclosed.)</i>
5. The left-out portions where green field alignment and curve improvement is being proposed in the alignment shall be reinstated to its original form and reclaimed at the cost of the project by the project proponent under the supervision of Forest Department. The same shall be surrendered to the Forest Department after completion of the projects. The detailed site improvement plan shall be submitted before submitting proposal for Stage-II approval.	Agreed The User Agency is agreed to the left-out portions where green field alignment and curve improvement is being proposed in the alignment shall be reinstated to its original form and reclaimed at the cost of the project by the project proponent under the supervision of Forest Department. The same shall be surrendered to the supervision of Forest Department.
6. The acoustic noise barrier system/ crash barrier system may be installed/ executed as per specification of IRC SP130-2022 and IRC-2015 wherever required during the construction of proposed road in consultation with the concern DFO.	Agreed
7. The State Govt. Has clarified that the diverted area in not passing through the any protected area but movement of wildlife is seen in the area, therefore as per the specification and suggestions given in the WII report for "Eco-friendly measure to mitigate impacts of linear	Agreed

infrastructure on Wildlife" shall be incorporated after consultation with the concerned DFO during the construction at the cost of project by the project proponent.	
8. The User Agency shall submit a detailed layout plan for the construction of 02 major bridges and 31 culverts/Minor Bridges, prior to the grant of Stage-II approval.	Agreed
9. The road side plantation shall be carried out by the State Forest Department as per Scheme submitted and the requisite fund shall be deposited in CAMPA by the Project Proponent.	Agreed & complied The Executive Engineer, Division – Sagar, MPPWD (NH), has deposited an amount of Rs. 18158087.00 in CAMPA wide UTR No. CNRBR52025122973537211 <i>(The copy of Deposit Details enclosed.)</i>
10. The User Agency shall submit an undertaking that no muck shall be disposed of in forest land.	Agreed The User Agency has agreed to No Muck will be disposed inside the Protected or Forest Areas.
11. The KML files of Diverted and CA area shall be uploaded on the e.Green watch portal with all requisite details prior to Stage-II Approval.	The condition is related to Forest Department, and The User Agency has ensured that the KML files of Diverted and CA area has been provided to the Forest Department.
12. Violation of any these Condition will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of Comprehensive Guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.	Agreed The User Agency has ensured that the violation of Forest (Conservation) Act, 1980 will never occurred in any Protected or Forest Areas.
13. The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/).	Agreed The User Agency has ensured that The compliance report will be uploaded on e-portal (https://parivesh.nic.in/)
14. In case working permission is granted by the State Forest Department, a copy of the same shall be submitted with compliance report of Stage-I approval.	Agreed
B. Conditions which need to be strictly complied on field after handing over of forest land	

to the User Agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approvals:	
1. Legal Status of the forest land shall remain unchanged.	Agreed
2. Compensatory afforestation shall be taken up by the Forest Department over 61.00 Ha degraded Forest Land, Compartment No. P-712, Piprihar, Forest Range – Luvkushnagar Forest Division-Chhatarpur at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Agreed The Executive Engineer, Division – Sagar, MPPWD (NH), has deposited the same amount the CAMPA. As UTR No. CNRBR52025122973537211 (The copy of Deposit Details enclosed.)
3. Additional amount of the NPV of the diverted Forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall also be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.	Agreed Under Taking enclosed.
4. The User Agency shall restrict felling of trees to the enumerated 1883 numbers/minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department or the cost of felling of trees shall be deposited by the User Agency with the State Forest Department and State Forest Department shall undertake the fellings..	Agreed The User Agency has agreed to felling of Trees inside the Protect and Forest Area will be minimum or as per the minimum requirement of Project.
5. Boundary of the diverted forest land shall be suitably demarcated on ground at the project cost.	Agreed The User Agency has agreed to Boundary of the diverted forest land shall be suitably demarcated on ground at the project cost
6. Speed regulating signages will be erected all along the road at regular intervals in the Protected Areas/ Forest Areas.	Agreed
7. Layout plan of the proposal shall not be changes without prior approval of Central Government.	Agreed
8. No Labour camp shall be established on the forest land.	Agreed
9. The User Agency shall provide alternate fuels preferably LPG to the labourers and staff working at the site so as to prevent any damage and pressure on the nearby forests.	Agreed

10. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.	Agreed
11. The period of diversion under this approval shall be co-terminus with the project life.	Agreed
12. The Forest land shall not be used for any purpose other than that specified in the project proposal.	Agreed
13. The User Agency and the State Government shall ensure compliance to provisions of all the Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to this project, if any for the time being in force, as applicable to the project.	Agreed
14. The forest land proposed to be diverted shall under no circumstance be transferred to any other agencies, department or person without prior approval of central Government.	Agreed
15. Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife.	Agreed

Encl:- As Above.


अनुविभागीय अधिकारी,
लोक निर्माण विभाग रा0रा0
उपसंभाग छतरपुर (म0प्र0)

Client:-



**Madhya Pradesh Public Works Department (NH ZONE BHOPAL)
Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh, Pin-462004**

PROJECT:-

REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 EXT. IN THE STATE OF MADHYA PRADESH ON EPC MODE

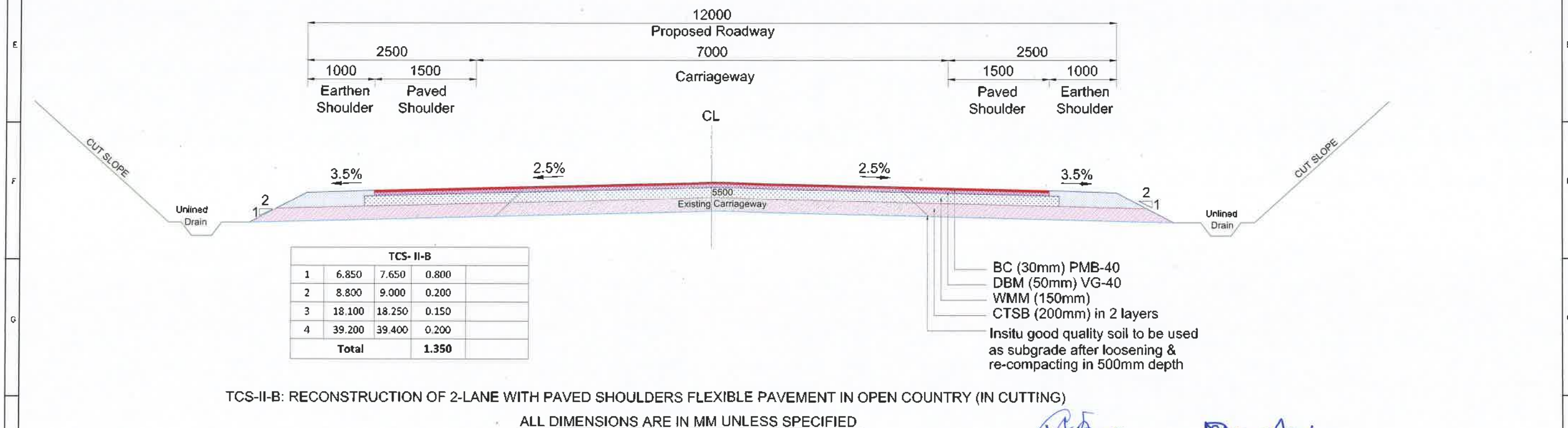
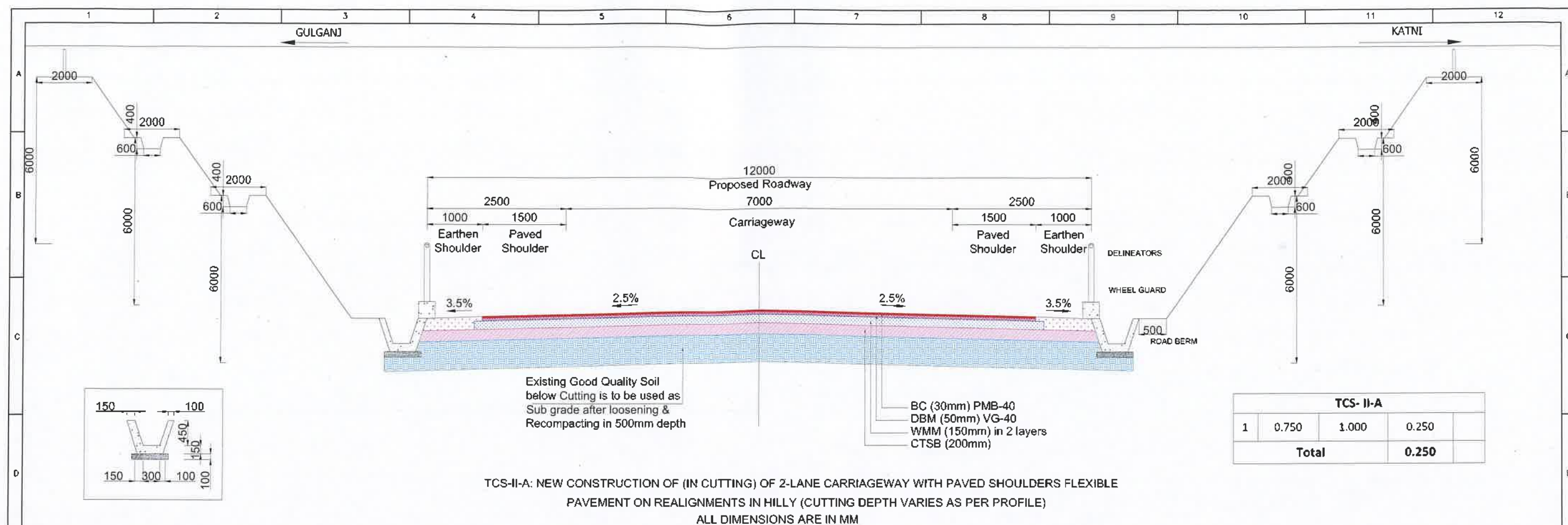


Design Consultant:

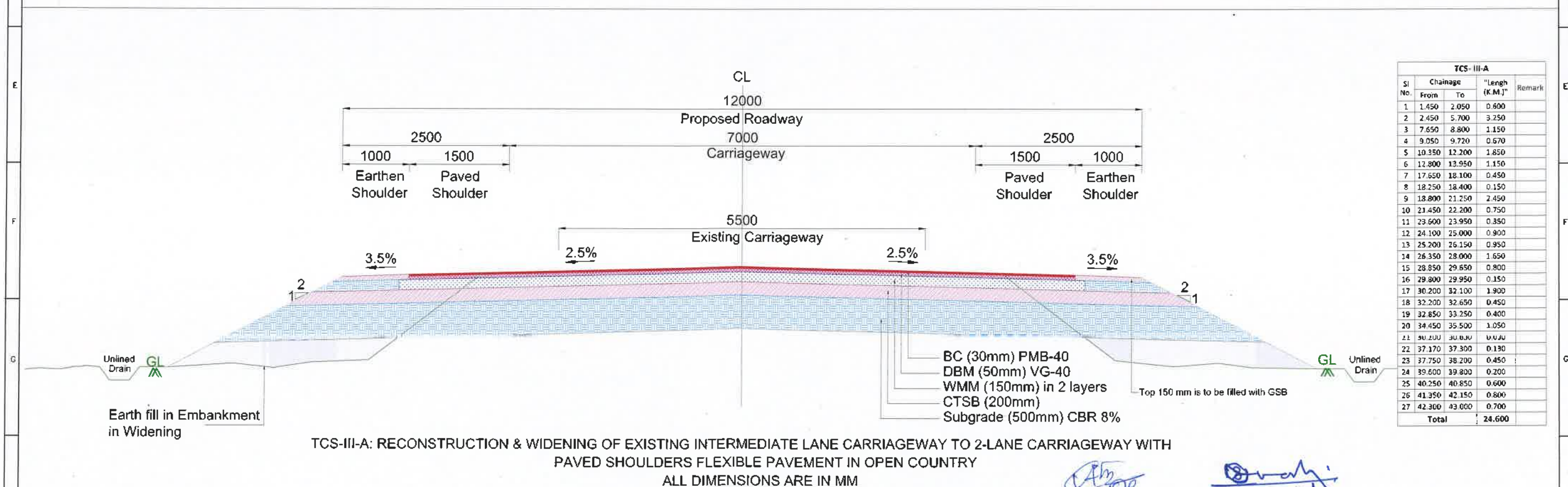
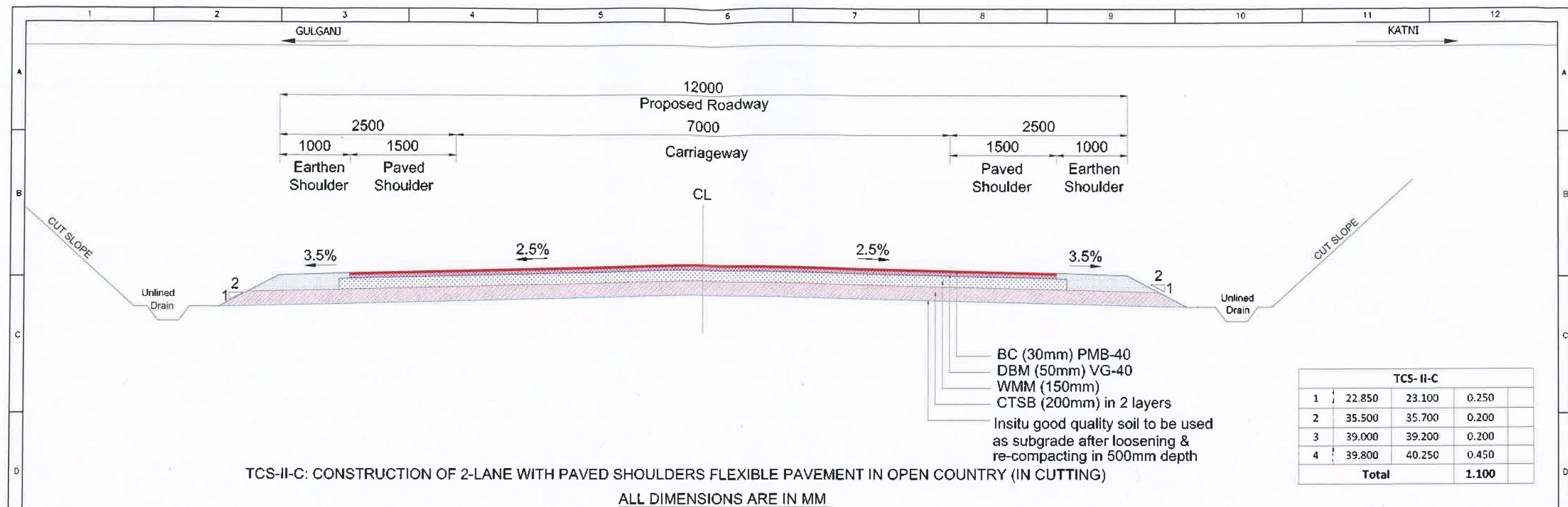
**A & A Consulting Engineer
18 Indus Empire
Near shahpura Police Station
Bhopal (M.P.) 462039
Phone:-+91 (755) 2997600**

EPC Contractor:

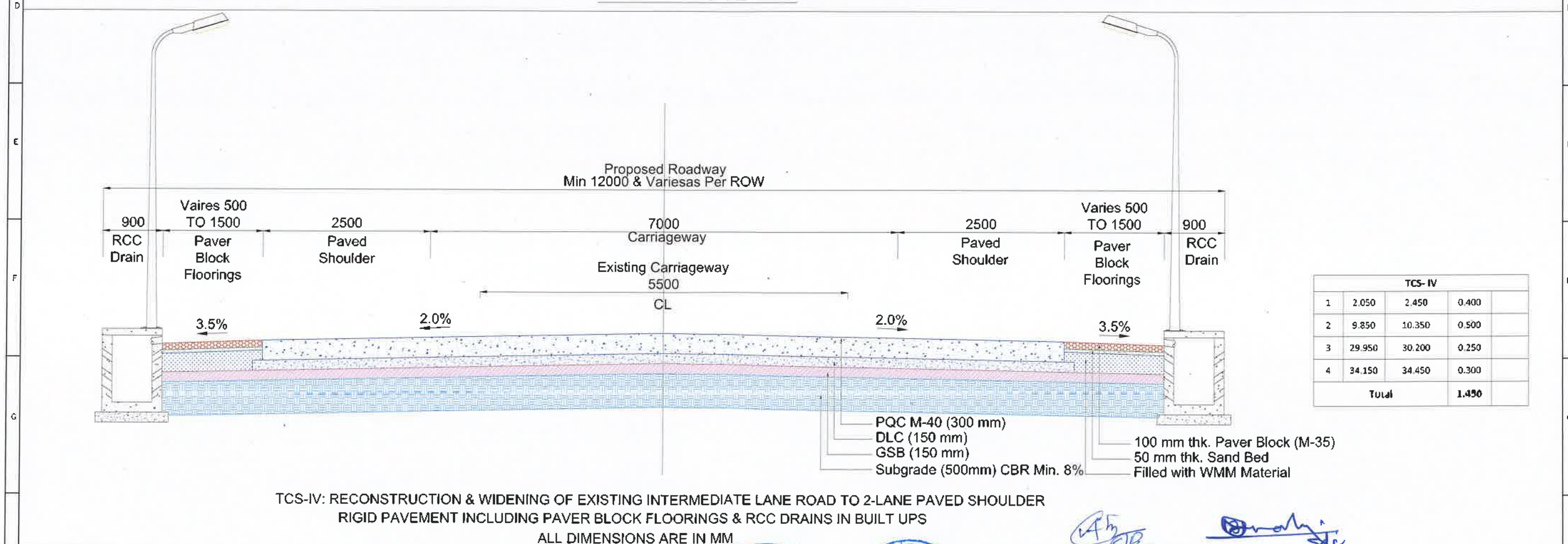
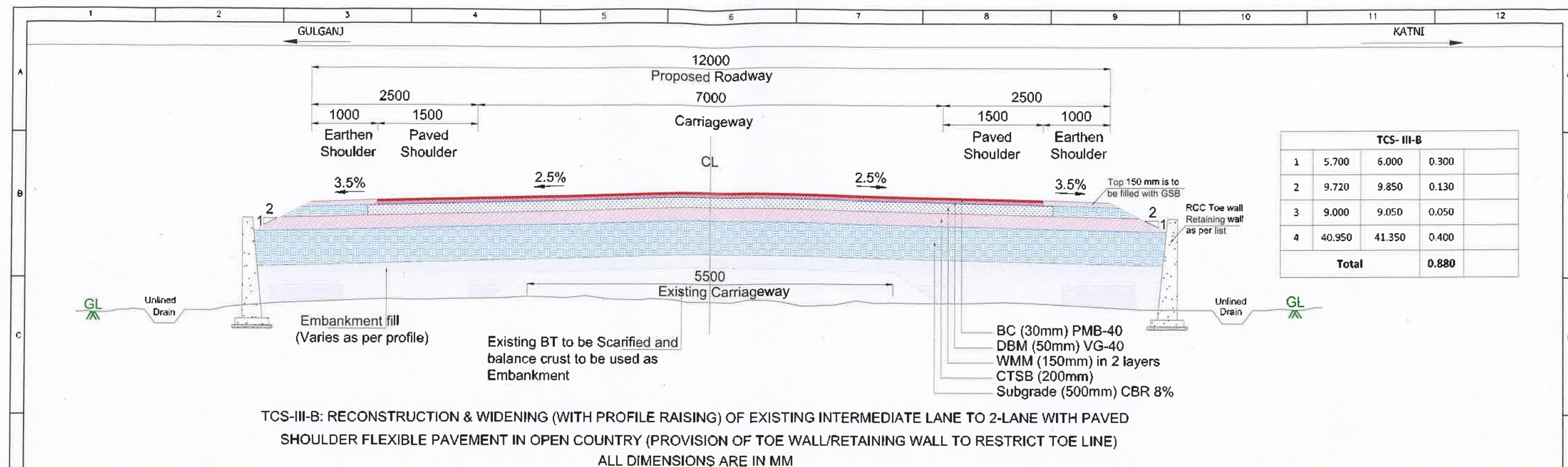
**M/s Ramraja Construction Company,
Jer Bhavan, Prithvipur**



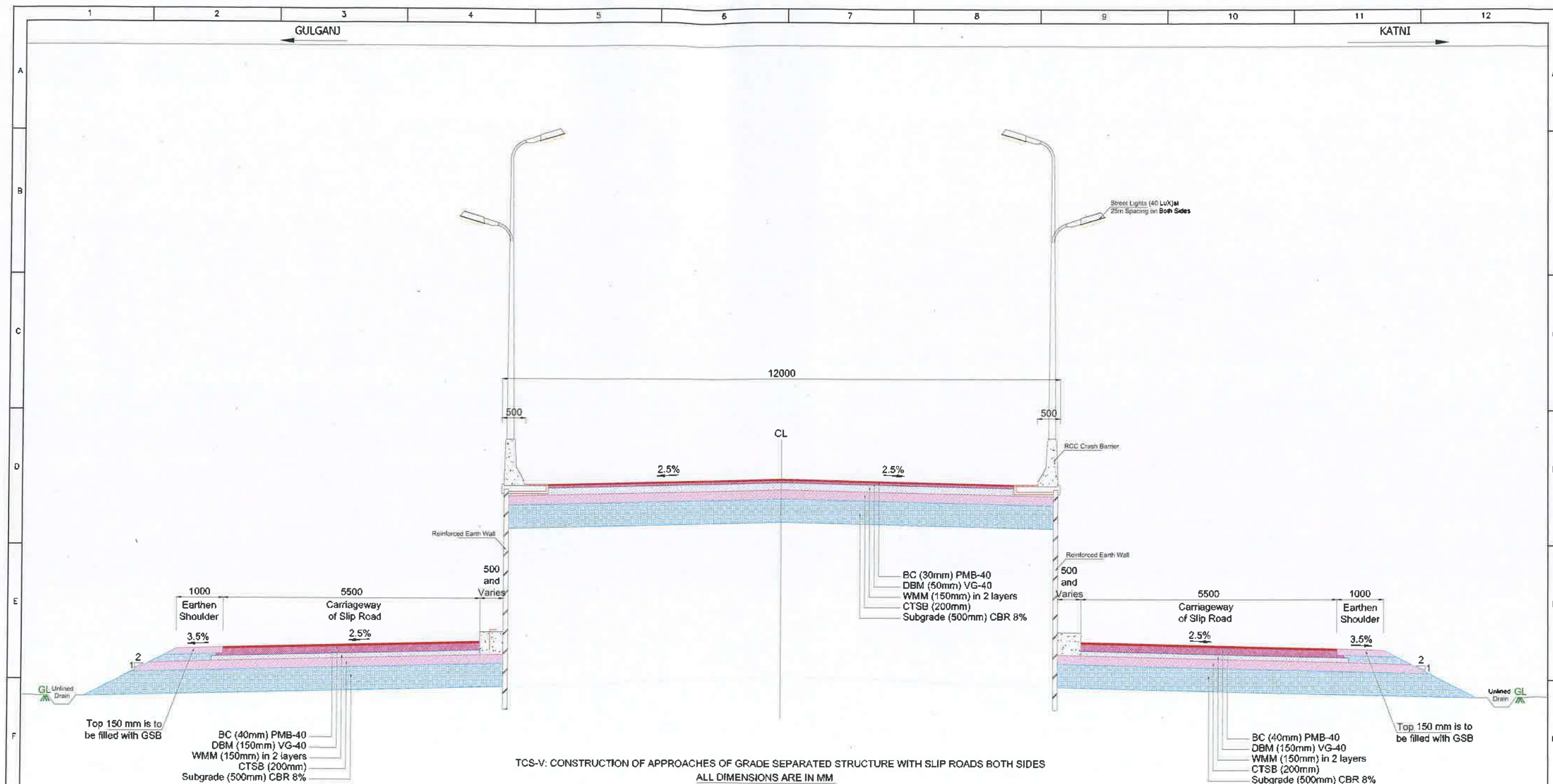
REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROJECT CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
			MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL)	A & A CONSULTING ENGINEERS	18 Indus Estate	ENARCO ENGINEERING PRIVATE LIMITED	Galaxy Designers LLP		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
									TITLE: TYPICAL CROSS SECTION Chainage
									ROAD NAME: GULGANJ TO BARNIA RIVER (NH-43) EXTENSION
									DATE: Dec-2024 SCALE: DRAWING NO. SHEET NO. 02 TO 06 REV. 00
FOR APPROVAL ONLY		13-12-2024							



REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R.D.	FOR APPROVAL ONLY	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL)	M/S. Ramjiya Construction Company, Ser. Bhovari, Prithvi	A & A CONSULTING ENGINEER, 18 Indus Estate, Near shohpura Police Station, Bhopal (M.P.) - 462039, Phone: +91 (755) 2987600	ENAMCO ENGINEERING PRIVATE LIMITED, Plot No. 27, M-1, First Floor, Noble Plaza, M.P. Nagar Zone-I, Bhopal (M.P.) - 462011	Krishna Goyal Designers LLP, T-5 1408 Valley View Estate, Gurugram, Faridkot Road, Gurugram, Haryana - 122001, Phone: +91 8878883366, Email: kghandesigners@gmail.com		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ - AMANGANJ - PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	TITLE: TYPICAL CROSS SECTION Chainage
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	DATE: Dec-2024 SCALE: DRAWING NO:
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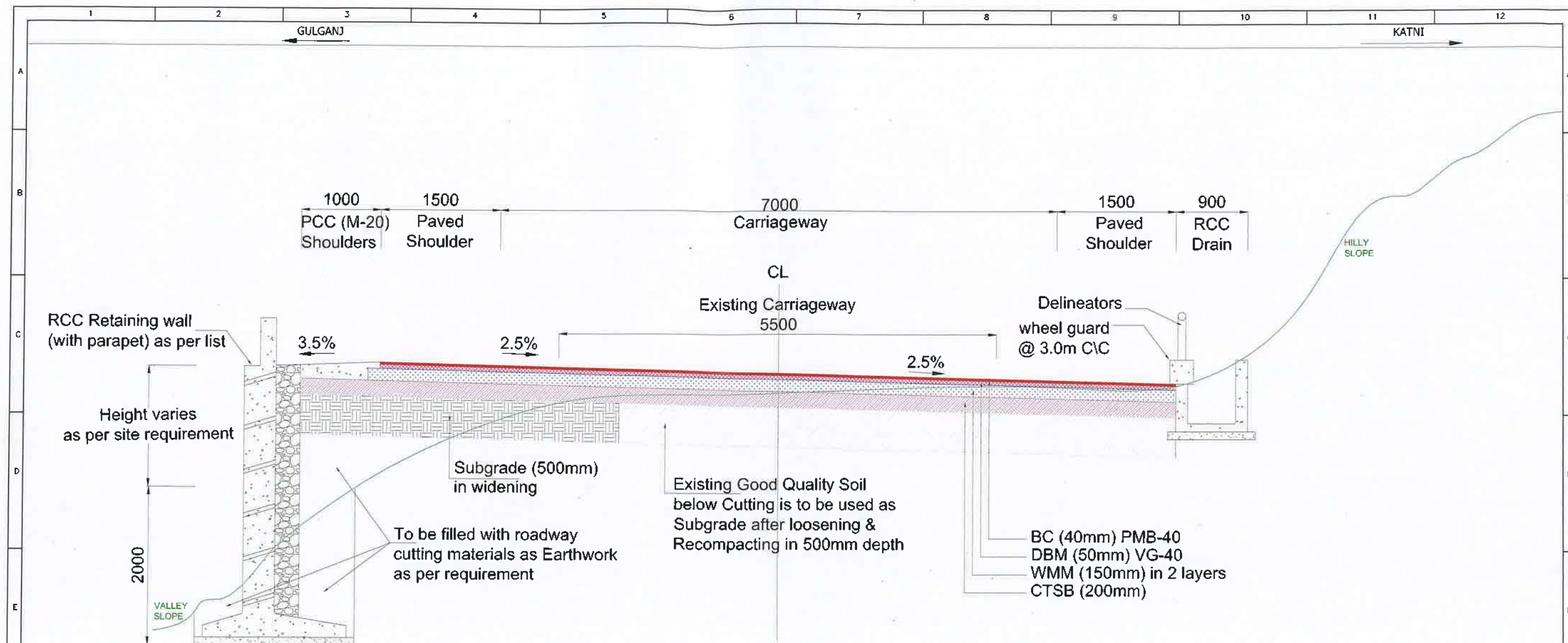


REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
1	FOR APPROVAL ONLY	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin - 462002	M/s. Ramraja Construction Company, Jee Bhawan, Prithvipur	A & A CONSULTING ENGINEERS 18 Indus Empire Near shohpura Police Station, Bhopal (M.P.)-462039 Phone:-+91 (755) 2997600	EMARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-9, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	Khaana Goyal Engineers LLP T-5, 400's Valley View Estate, Gurgaon, Haryana Road, Gurugram, Haryana-122003 M-983658396 Email:-khaanadesigners@gmail.com		REHABILITATION & UPGRADEMENT OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
									TITLE: TYPICAL CROSS SECTION Chainage
									ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION
									DATE: Dec-2024 SCALE: DRAWING NO.:
									SHEET NO.: 04 TO 06 REV. 00



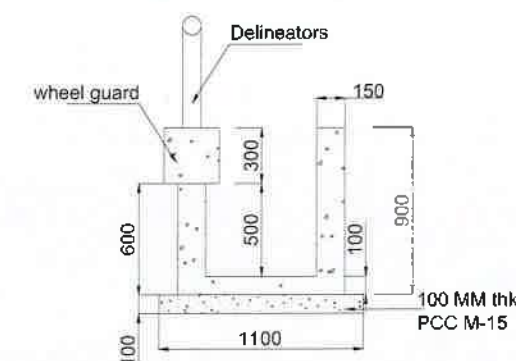
TCS- V				
1	14.850	16.400	1.550	
Total			1.550	

REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
			MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL)	M/s. Rajmaja Construction Company, Jor Bhovan, Prithvipur	A & A CONSULTING ENGINEERS, 18 Indus Empire, Near shohadai Police Station, Bhopal (M.P.) 462039, Phone: +91 (755) 2987600	ENARCO ENGINEERING PRIVATE LIMITED, Plot No. 20, M-2, First Floor, Mobile Plaza, M.P. Nagar Zone-II, Bhopal (M.P.) 462001	Khanna Goyal Designers LLP, T-5, 3403, Vellore View Estate, Gurugram, Haryana 122006, Phone: +91 987968396, Email: khannagoyaldesigners@gmail.com		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2-LANE WITH PAVED SHOULDERS FROM KM 0.500 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ - AMANGANJ - PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
RO	FOR APPROVAL ONLY	13-12-2024							TITLE: TYPICAL CROSS SECTION Chainage
									ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION
									DATE: Dec-2024 SCALE: DRAWING NO.:
									SHEET NO.: 05 TO 06 REV. 00



TCS-VI: RECONSTRUCTION & WIDENING OF EXISTING INTERMEDIATE LANE CARRIAGEWAY TO 2-LANE CARRIAGEWAY WITH PAVED SHOULDERS FLEXIBLE PAVEMENT IN GHAT SECTIONS
ALL DIMENSIONS ARE IN MM

TCS- VI				
1	37.500	37.750	0.250	
2	38.200	38.550	0.350	
Total			0.600	



MINIMUM SECTION OF RCC OPEN DRAIN

REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R0	FOR APPROVAL ONLY	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin - 462004	M/s. Baraja Construction Company, Jee Bhawan, Prithvi Pur	A & A CONSULTING ENGINEERS 18 Indus Enclave Near Shahpura Police Station, Bhopal (M.P.) - 462039 Phone: +91 (755) 2987600	Engineering PRIVATIZED Plot No. 27, 1st Floor, Noida Plaza, M.P. Nagar, Zone-II, Bhopal (M.P.) - 462041	Sharma Goyal Designers LLP C-5, 1st Floor, Vihar View Estate Gautam Road, Kailashpuram Bhopal - 462003 M-967385896 Email: sharmagoyaldesigners@gmail.com		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE.
				AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	TITLE: TYPICAL CROSS SECTION Chainage
									ROAD NAME: GULGANJ TO BARNIA RIVER (NH-43) EXTENSION
									DATE: Dec-2024 SCALE: DRAWING NO.: SHEET NO.: 06 TO 06 REV. 00

Horizontal Alignment Report

HIP/Curve No.	HIP		Deflection	Element	Start			End			Length	Chord Length	Bearing	Radius	Extra Widening	Hand Of Arc
	Easting	Northing			Chainage	Easting	Northing	Chainage	Easting	Northing						
				Straight	0+600	334385.956	2730620.827	1+138	334922.177	2730663.038	537.881		N 85° 29' 56.2371" E			
				Transition	1+138	334922.177	2730663.038	1+193	334977.081	2730666.096	55	54.988				
1	335108.865	2730667.389	36° 28' 18.3293"	Arc	1+193	334977.081	2730666.096	1+448	335215.608	2730590.092	254.621			400	0	RIGHT
				Transition	1+448	335215.608	2730590.092	1+503	335258.621	2730555.834	55	54.988				
				Straight	1+503	335258.621	2730555.834	2+093	335712.219	2730177.254	590.825		S 50° 09' 04.0227" E			
				Transition	2+093	335712.219	2730177.254	2+153	335759.347	2730140.152	60	59.98				
2	335791.901	2730117.41	12° 56' 46.4507"	Arc	2+153	335759.347	2730140.152	2+232	335828.723	2730102.539	79.084			350	0	LEFT
				Transition	2+232	335828.723	2730102.539	2+292	335885.531	2730083.292	60	59.98				
				Straight	2+292	335885.531	2730083.292	2+640	336217.589	2729981.261	347.379		S 72° 55' 10.1546" E			
				Transition	2+640	336217.589	2729981.261	2+700	336275.155	2729964.357	60	59.996				
3	336306.823	2729955.912	04° 41' 31.3347"	Arc	2+700	336275.155	2729964.357	2+765	336339.076	2729950.086	65.513			800	0	LEFT
				Transition	2+765	336339.076	2729950.086	2+825	336398.365	2729940.899	60	59.996				
				Straight	2+825	336398.365	2729940.899	2+916	336488.393	2729928.1	90.933		S 81° 54' 31.3498" E			
4	336600.589	2729912.15	07° 12' 17.8919"	Arc	2+916	336488.393	2729928.1	3+143	336713.901	2729910.397	226.351			1800	0	LEFT
				Straight	3+143	336713.901	2729910.397	3+425	336996.027	2729906.032	282.16		S 89° 06' 49.2416" E			
5	337021.483	2729905.639	01° 12' 55.9533"	Arc	3+425	336996.027	2729906.032	3+476	337046.925	2729904.705	50.917			2400	0	RIGHT
				Straight	3+476	337046.925	2729904.705	3+754	337324.742	2729894.509	278.004		S 87° 53' 53.2884" E			
				Transition	3+754	337324.742	2729894.509	3+809	337379.362	2729888.91	55	54.906				
6	337398.599	2729884.343	16° 04' 38.5180"	Arc	3+809	337379.362	2729888.91	3+848	337415.819	2729874.626	39.284			140	0.6	RIGHT
				Transition	3+848	337415.819	2729874.626	3+903	337459.705	2729841.631	55	54.906				
				Straight	3+903	337459.705	2729841.631	4+520	337927.801	2729439.171	617.323		S 49° 18' 42.1679" E			
7	337993.638	2729382.565	04° 58' 17.9915"	Arc	4+520	337927.801	2729439.171	4+694	338064.134	2729331.878	173.544			2000	0	LEFT
				Straight	4+694	338064.134	2729331.878	4+969	338287.576	2729171.22	275.204		S 54° 17' 00.1594" E			
8	338315.058	2729151.46	01° 17' 34.3191"	Arc	4+969	338287.576	2729171.22	5+037	338342.979	2729132.325	67.694			3000	0	LEFT
				Straight	5+037	338342.979	2729132.325	5+221	338494.739	2729028.321	183.978		S 55° 34' 34.4785" E			
				Transition	5+221	338494.739	2729028.321	5+266	338532.199	2729003.392	45	44.997				



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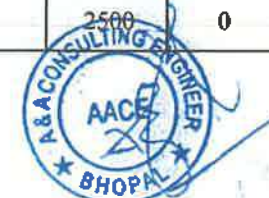
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18	342575.965	2727612.868	01° 50' 48.6756"	Arc	9+558	342556.657	2727614.02	9+597	342595.3	2727612.34	38.68			1200	0	LEFT
				Transition	9+597	342595.3	2727612.34	9+637	342635.294	2727611.692	40	40				
				Straight	9+637	342635.294	2727611.692	9+669	342667.318	2727611.351	32.026		S 89° 23' 22.7414" E			
				Transition	9+669	342667.318	2727611.351	9+704	342702.31	2727610.664	35	34.999				
19	342736.776	2727609.368	06° 04' 29.4771"	Arc	9+704	342702.31	2727610.664	9+772	342770.912	2727604.432	68.917			650	0	RIGHT
				Transition	9+772	342770.912	2727604.432	9+807	342805.455	2727598.803	35	34.999				
				Straight	9+807	342805.455	2727598.803	9+940	342935.716	2727576.372	132.178		S 80° 13' 46.6978" E			
				Transition	9+940	342935.716	2727576.372	9+970	342965.158	2727570.641	30	29.994				
20	342980.684	2727566.911	07° 56' 34.1766"	Arc	9+970	342965.158	2727570.641	10+002	342995.546	2727561.072	31.885			230	0.6	RIGHT
				Transition	10+002	342995.546	2727561.072	10+032	343022.96	2727548.9	30	29.994				
				Straight	10+032	343022.96	2727548.9	10+054	343043.379	2727539.298	22.564		S 64° 48' 48.4160" E			
				Transition	10+054	343043.379	2727539.298	10+079	343066.046	2727528.753	25	25				
21	343107.509	2727509.883	05° 12' 59.7217"	Arc	10+079	343066.046	2727528.753	10+170	343150.516	2727494.861	91.047			1000	0	LEFT
				Transition	10+170	343150.516	2727494.861	10+195	343174.185	2727486.814	25	25				
				Straight	10+195	343174.185	2727486.814	10+342	343313.458	2727440.113	146.894		S 71° 27' 44.7579" E			
22	343527.935	2727368.193	06° 59' 50.2981"	Arc	10+342	343313.458	2727440.113	10+794	343732.054	2727270.681	451.866			3700	0	RIGHT
				Straight	10+794	343732.054	2727270.681	11+169	344070.673	2727108.915	375.276		S 64° 27' 54.4598" E			
23	344117.168	2727086.704	00° 59' 02.6547"	Arc	11+169	344070.673	2727108.915	11+272	344163.273	2727063.697	103.052			6000	0	RIGHT
				Straight	11+272	344163.273	2727063.697	11+525	344389.239	2726950.941	252.536		S 63° 28' 51.8051" E			
24	344443.326	2726923.952	00° 51' 56.9324"	Arc	11+525	344389.239	2726950.941	11+646	344497.814	2726897.784	120.891			8000	0	LEFT
				Straight	11+646	344497.814	2726897.784	12+184	344982.936	2726664.799	538.168		S 64° 20' 48.7375" E			
				Transition	12+184	344982.936	2726664.799	12+239	345032.236	2726640.423	55	54.997				
25	345062.77	2726624.445	04° 55' 59.7309"	Arc	12+239	345032.236	2726640.423	12+308	345091.817	2726605.9	68.881			800	0	RIGHT
				Transition	12+308	345091.817	2726605.9	12+363	345137.482	2726575.251	55	54.997				
				Straight	12+363	345137.482	2726575.251	12+751	345457.423	2726355.151	388.338		S 55° 28' 28.3012" E			
				Transition	12+751	345457.423	2726355.151	12+806	345503.088	2726324.502	55	54.997				
26	345524.268	2726310.98	03° 35' 53.4461"	Arc	12+806	345503.088	2726324.502	12+856	345546.255	2726298.813	50.24			800	0	LEFT
				Transition	12+856	345546.255	2726298.813	12+911	345594.974	2726273.295	55	54.997				
				Straight	12+911	345594.974	2726273.295	13+102	345764.851	2726186.783	190.638		S 63° 00' 42.4528" E			
27	345802.836	2726167.438	01° 57' 13.3954"	Arc	13+102	345764.851	2726186.783	13+187	345840.14	2726146.809	85.247			2500	0	RIGHT



AS
S/B



				Straight	19+918	350410.381	2722770.354	19+999	350490.794	2722761.477	80.902		S 83° 42' 01.7879" E			
				Transition	19+999	350490.794	2722761.477	20+039	350530.527	2722756.867	40	40				
37	350600.215	2722747.996	06° 42' 02.5439"	Arc	20+039	350530.527	2722756.867	20+179	350668.391	2722731.055	140.339			1200	0	RIGHT
				Transition	20+179	350668.391	2722731.055	20+219	350707.1	2722720.977	40	40				
				Straight	20+219	350707.1	2722720.977	21+226	351680.599	2722461.766	1007.418		S 75° 05' 23.7505" E			
				Transition	21+226	351680.599	2722461.766	21+271	351724.396	2722451.501	45	44.984				
38	351825.362	2722434.145	44° 33' 58.0137"	Arc	21+271	351724.396	2722451.501	21+466	351909.472	2722492.631	194.456			250	0.6	LEFT
				Transition	21+466	351909.472	2722492.631	21+511	351944.798	2722520.481	45	44.984				
				Straight	21+511	351944.798	2722520.481	22+180	352457.759	2722950.438	669.322		N 50° 01' 50.5707" E			
				Transition	22+180	352457.759	2722950.438	22+235	352500.7	2722984.786	55	54.988				
39	352646.448	2723090.796	48° 30' 31.6853"	Arc	22+235	352500.7	2722984.786	22+574	352822.415	2723051.854	338.655			400	0	RIGHT
				Transition	22+574	352822.415	2723051.854	22+629	352875.503	2723037.525	55	54.988				
				Straight	22+629	352875.503	2723037.525	22+960	353193.643	2722943.785	331.663		S 73° 34' 56.3331" E			
				Transition	22+960	353193.643	2722943.785	23+060	353290.493	2722919.105	100	99.945				
40	353306.97	2722916.185	04° 15' 33.4138"	Arc	23+060	353290.493	2722919.105	23+094	353323.619	2722914.496	33.452			450	0	LEFT
				Transition	23+094	353323.619	2722914.496	23+194	353423.528	2722911.796	100	99.945				
				Straight	23+194	353423.528	2722911.796	23+696	353925.887	2722916.829	502.384		N 89° 25' 33.6295" E			
41	353981.165	2722917.383	03° 09' 59.6281"	Arc	23+696	353925.887	2722916.829	23+807	354036.389	2722914.882	110.534			2000	0	RIGHT
				Straight	23+807	354036.389	2722914.882	23+928	354157.588	2722909.395	121.323		S 87° 24' 26.7424" E			
				Transition	23+928	354157.588	2722909.395	24+003	354232.259	2722902.94	75	74.95				
42	354284.378	2722894.09	19° 39' 58.8526"	Arc	24+003	354232.259	2722902.94	24+108	354330.478	2722868.216	104.689			305	0	RIGHT
				Transition	24+108	354330.478	2722868.216	24+183	354392.613	2722826.305	75	74.95				
				Straight	24+183	354392.613	2722826.305	24+321	354503.893	2722744.418	138.161		S 53° 39' 07.0358" E			
				Transition	24+321	354503.893	2722744.418	24+366	354539.308	2722716.682	45	44.984				
43	354553.001	2722704.563	08° 22' 03.7438"	Arc	24+366	354539.308	2722716.682	24+402	354564.791	2722690.58	36.511			250	0.6	RIGHT
				Transition	24+402	354564.791	2722690.58	24+447	354591.668	2722654.508	45	44.984				
				Straight	24+447	354591.668	2722654.508	24+462	354600.201	2722642.308	14.888		S 34° 58' 15.6269" E			
				Transition	24+462	354600.201	2722642.308	24+522	354636.912	2722594.922	60	59.943				
44	354653.284	2722577.582	13° 16' 14.4147"	Arc	24+522	354636.912	2722594.922	24+570	354673.199	2722564.464	47.481			205	0.6	LEFT
				Transition	24+570	354673.199	2722564.464	24+630	354726.231	2722536.523	60	59.943				



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54	358615.199	2720132.522	03° 30' 02.5853"	Arc	29+418	358584.71	2720130.447	29+480	358645.757	2720132.733	61.099			1000	0	RIGHT
				Transition	29+480	358645.757	2720132.733	29+505	358670.757	2720132.696	25	25				
				Straight	29+505	358670.757	2720132.696	29+679	358844.741	2720131.719	173.987		S 89° 40' 41.1212" E			
				Transition	29+679	358844.741	2720131.719	29+729	358894.564	2720128.469	50	49.929				
55	358908.379	2720125.896	11° 27' 50.5209"	Arc	29+729	358894.564	2720128.469	29+757	358921.407	2720120.627	28.012			140	0.6	RIGHT
				Transition	29+757	358921.407	2720120.627	29+807	358965.144	2720096.544	50	49.929				
				Straight	29+807	358965.144	2720096.544	29+820	358976.115	2720089.622	12.972		S 57° 45' 04.5981" E			
				Transition	29+820	358976.115	2720089.622	29+880	359027.252	2720058.245	60	59.996				
56	359058.168	2720040.324	05° 06' 54.3887"	Arc	29+880	359027.252	2720058.245	29+951	359090.557	2720025.231	71.42			800	0	LEFT
				Transition	29+951	359090.557	2720025.231	30+011	359145.556	2720001.257	60	59.996				
				Straight	30+011	359145.556	2720001.257	30+058	359188.52	2719983.164	46.618		S 67° 09' 48.8473" E			
				Transition	30+058	359188.52	2719983.164	30+093	359221.139	2719970.508	35	34.989				
57	359253.529	2719960.018	18° 51' 32.1508"	Arc	30+093	359221.139	2719970.508	30+160	359287.57	2719960.561	67.476			205	0.6	LEFT
				Transition	30+093	359287.57	2719960.561	30+160	359322.466	2719963.108	35	34.989				
				Straight	30+093	359322.466	2719963.108	30+160	359763.275	2720007.92	443.081		N 84° 11' 43.0594" E			



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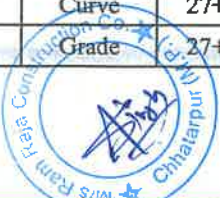
Vertical Alignment Report

PVI No.	PVI		Element	Start		End		Length	Grade In	Type
	Chainage	RL		Chainage	RL	Chainage	RL			
				0+600	293.501					
1	+880	307.044	Curve	0+830	304.624	0+930	305.825	100		Summit
			Grade	0+930	305.825	1+190	299.485	260.156	-2.44%	
2	1+250	298.023	Curve	1+190	299.485	1+310	297.79	120		Valley
			Grade	1+310	297.79	1+473	297.158	162.81	-0.39%	
3	1+610	296.625	Curve	1+473	297.158	1+747	297.126	274.379		Valley
			Grade	1+747	297.126	1+945	297.849	198.121	0.37%	
4	1+975	297.958	Curve	1+945	297.849	2+005	298.234	60		Valley
			Grade	2+005	298.234	2+160	299.658	154.754	0.92%	
5	2+220	300.21	Curve	2+160	299.658	2+280	299.824	120		Summit
			Grade	2+280	299.824	2+383	299.16	103.415	-0.64%	
6	2+443	298.775	Curve	2+383	299.16	2+503	298.606	120		Valley
			Grade	2+503	298.606	2+719	297.999	215.694	-0.28%	
7	2+919	297.435	Curve	2+719	297.999	3+119	298.037	400		Valley
			Grade	3+119	298.037	3+375	298.807	255.616	0.30%	
8	3+435	298.987	Curve	3+375	298.807	3+495	298.274	120		Summit
			Grade	3+495	298.274	3+810	294.523	315.211	-1.19%	
9	3+870	293.81	Curve	3+810	294.523	3+930	294.634	120		Valley
			Grade	3+930	294.634	4+230	298.756	300	1.37%	
10	4+290	299.58	Curve	4+230	298.756	4+350	299.781	120		Summit
			Grade	4+350	299.781	4+580	300.551	230	0.34%	
11	4+620	300.685	Curve	4+580	300.551	4+660	300.982	80		Valley
			Grade	4+660	300.982	4+755	301.687	94.999	0.74%	
12	4+830	302.244	Curve	4+755	301.687	4+905	302.485	150		Summit
			Grade	4+905	302.485	5+320	303.818	415.001	0.32%	
13	5+370	303.979	Curve	5+320	303.818	5+420	303.652	100		Summit
			Grade	5+420	303.652	5+495	303.163	75	-0.65%	
14	5+545	302.836	Curve	5+495	303.163	5+595	303.299	100		Valley
			Grade	5+595	303.299	5+800	305.195	204.712	0.93%	
15	5+860	305.751	Curve	5+800	305.195	5+920	307.166	120		Valley
			Grade	5+920	307.166	6+010	309.295	90.288	2.36%	
16	6+070	310.71	Curve	6+010	309.295	6+130	313.087	120		Valley
			Grade	6+130	313.087	6+380	322.983	249.786	3.96%	
17	6+440	325.36	Curve	6+380	322.983	6+500	328.052	120		Valley
			Grade	6+500	328.052	7+310	364.392	810.132	4.49%	
18	7+480	372.018	Curve	7+310	364.392	7+650	370.544	340		Summit
			Grade	7+650	370.544	7+900	368.375	250.082	-0.87%	
19	7+960	367.855	Curve	7+900	368.375	8+020	366.769	120		Summit
			Grade	8+020	366.769	8+128	364.809	108.2		
20	8+166	364.13	Curve	8+128	364.809	8+203	364.316	75		Valley
			Grade	8+203	364.316	8+257	364.582	53.888		



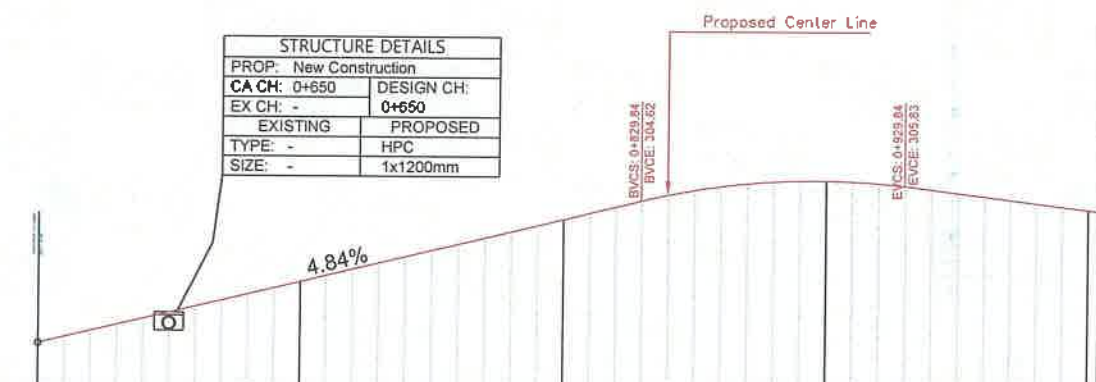
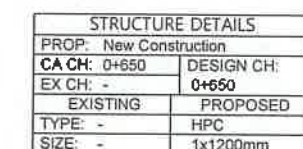
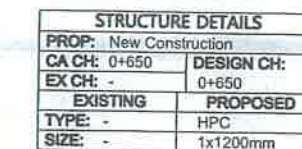
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			Grade	18+285	363.952	18+793	353.333	507.929	-2.09%	
44	18+883	351.452	Curve	18+793	353.333	18+973	351.154	180		Valley
			Grade	18+973	351.154	19+133	350.626	159.577	-0.33%	
45	19+173	350.494	Curve	19+133	350.626	19+213	350.034	80		Summit
			Grade	19+213	350.034	19+280	349.259	67.464	-1.15%	
46	19+320	348.799	Curve	19+280	349.259	19+360	349.184	80		Valley
			Grade	19+360	349.184	19+400	349.568	40.057	0.96%	
47	19+450	350.049	Curve	19+400	349.568	19+500	349.58	100		Summit
			Grade	19+500	349.58	19+563	348.987	63.217	-0.94%	
48	19+603	348.611	Curve	19+563	348.987	19+643	348.347	80		Valley
			Grade	19+643	348.347	20+007	345.947	363.96	-0.66%	
49	20+082	345.453	Curve	20+007	345.947	20+157	344.733	150		Summit
			Grade	20+157	344.733	20+296	343.396	139.116	-0.96%	
50	20+346	342.916	Curve	20+296	343.396	20+396	342.752	100		Valley
			Grade	20+396	342.752	20+900	341.097	503.686	-0.33%	
51	20+950	340.932	Curve	20+900	341.097	21+000	340.608	100		Summit
			Grade	21+000	340.608	21+068	340.168	67.991	-0.65%	
52	21+118	339.844	Curve	21+068	340.168	21+168	340.625	100		Valley
			Grade	21+168	340.625	21+253	341.949	84.674	1.56%	
53	21+328	343.121	Curve	21+253	341.949	21+403	342.87	150		Summit
			Grade	21+403	342.87	21+614	342.166	211.279	-0.33%	
54	21+864	341.332	Curve	21+614	342.166	22+114	347.535	500		Valley
			Grade	22+114	347.535	22+150	348.434	36.225	2.48%	
55	22+240	350.667	Curve	22+150	348.434	22+330	350.972	180		Summit
			Grade	22+330	350.972	22+526	351.637	196.175	0.34%	
56	22+651	352.06	Curve	22+526	351.637	22+776	356.424	250		Valley
			Grade	22+776	356.424	23+051	366.019	274.88	3.49%	
57	23+201	371.255	Curve	23+051	366.019	23+351	370.747	300		Summit
			Grade	23+351	370.747	23+741	369.429	389.897	-0.34%	
58	23+841	369.09	Curve	23+741	369.429	23+941	367.218	200		Summit
			Grade	23+941	367.218	24+099	364.261	157.986	-1.87%	
59	24+224	361.921	Curve	24+099	364.261	24+349	360.427	250		Valley
			Grade	24+349	360.427	24+511	358.488	162.215	-1.20%	
60	24+661	356.696	Curve	24+511	358.488	24+811	354.166	300		Summit
			Grade	24+811	354.166	25+003	350.94	191.254	-1.69%	
61	25+078	349.675	Curve	25+003	350.94	25+153	349.326	150		Valley
			Grade	25+153	349.326	25+430	348.031	277.425	-0.47%	
62	25+530	347.565	Curve	25+430	348.031	25+630	346.733	200		Summit
			Grade	25+630	346.733	25+830	345.069	200.006	-0.83%	
63	25+955	344.029	Curve	25+830	345.069	26+080	343.346	250		Valley
			Grade	26+080	343.346	26+703	339.936	623.344	-0.55%	
64	26+878	338.979	Curve	26+703	339.936	27+053	337.044	350		Summit
			Grade	27+053	337.044	27+248	334.89	194.66		
65	27+308	334.227	Curve	27+248	334.89	27+368	333.97	120		Valley
			Grade	27+368	333.97	27+454	333.601	86.288		



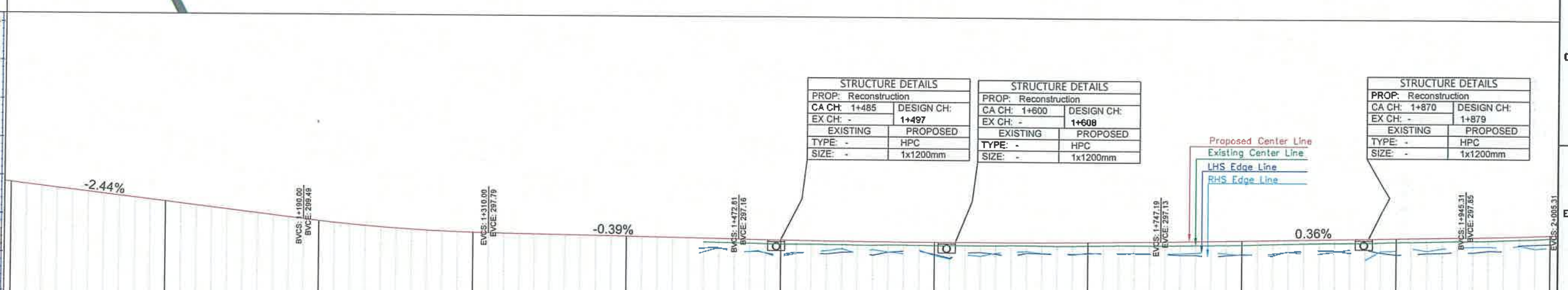
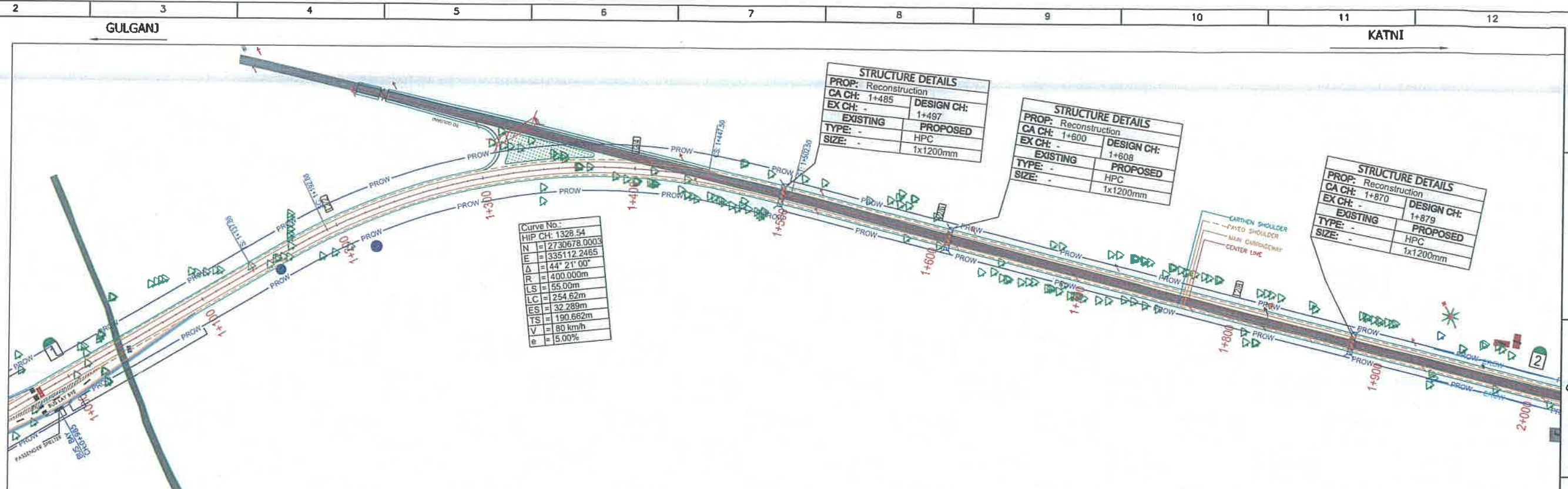
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LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	



LEVELS DATUM 269.00		
F	Proposed:	293.901 293.895 294.469 294.953 295.435 295.920 296.404 296.888 297.372 297.855 298.340 298.824 299.308 299.792 300.276 300.750 301.244 301.728 302.212 302.696 303.180 303.664 304.148 304.632 305.116 305.600 306.084 306.568 307.052 307.536 308.020 308.504 308.988 309.472 309.956 304.116
	Ground Level:	
	Lvl Diff (+/-):	
	Ground Level Left @ 9.0m	
G	Ground Level Right @ 9.0m	
	Vertical Alignment:	
	Horizontal Alignment:	
	Superelevation:	
	Chainage:	0+000 0+010 0+020 0+030 0+040 0+050 0+060 0+070 0+080 0+090 0+100 0+110 0+120 0+130 0+140 0+150 0+160 0+170 0+180 0+190 0+200 0+210 0+220 0+230 0+240 0+250 0+260 0+270 0+280 0+290 0+300 0+310 0+320 0+330 0+340 0+350 0+360 0+370 0+380 0+390 0+400 0+410 0+420 0+430 0+440 0+450 0+460 0+470 0+480 0+490 0+500 0+510 0+520 0+530 0+540 0+550 0+560 0+570 0+580 0+590 0+600 0+610 0+620 0+630 0+640 0+650 0+660 0+670 0+680 0+690 0+700 0+710 0+720 0+730 0+740 0+750 0+760 0+770 0+780 0+790 0+800 0+810 0+820 0+830 0+840 0+850 0+860 0+870 0+880 0+890 0+900 0+910 0+920 0+930 0+940 0+950 0+960 0+970 0+980 0+990 0+1000

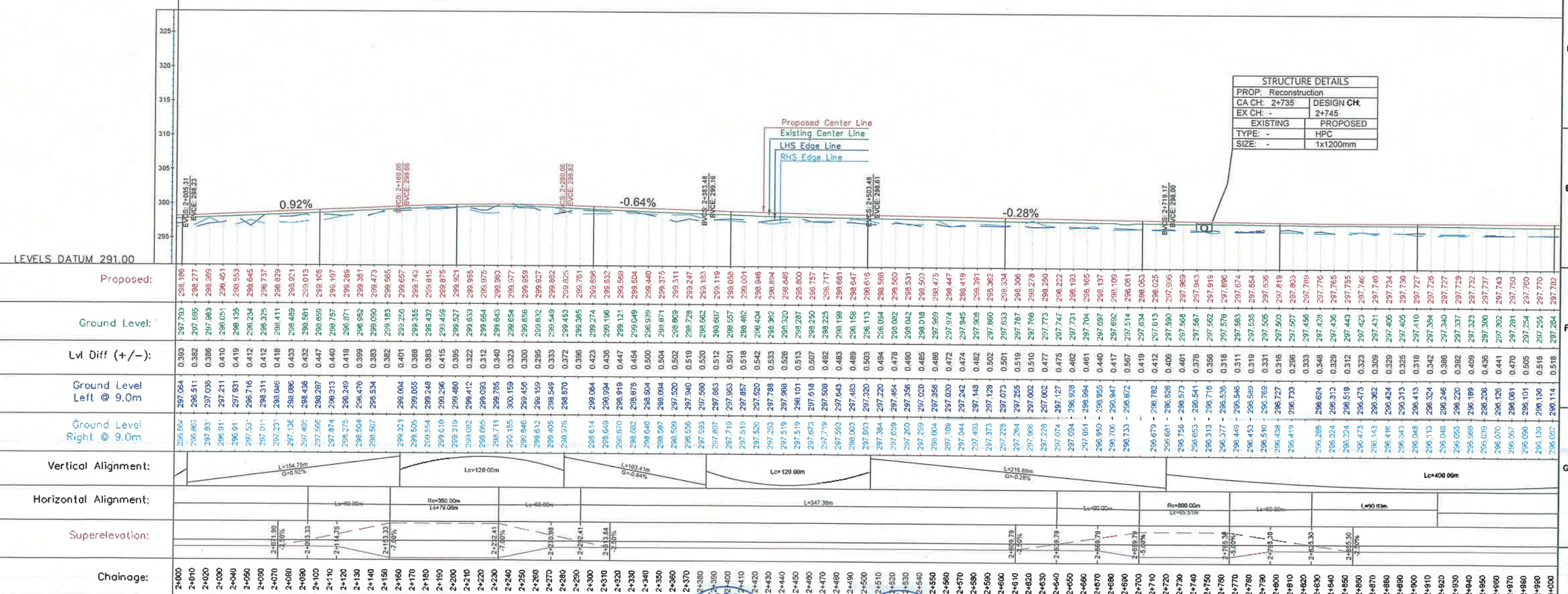
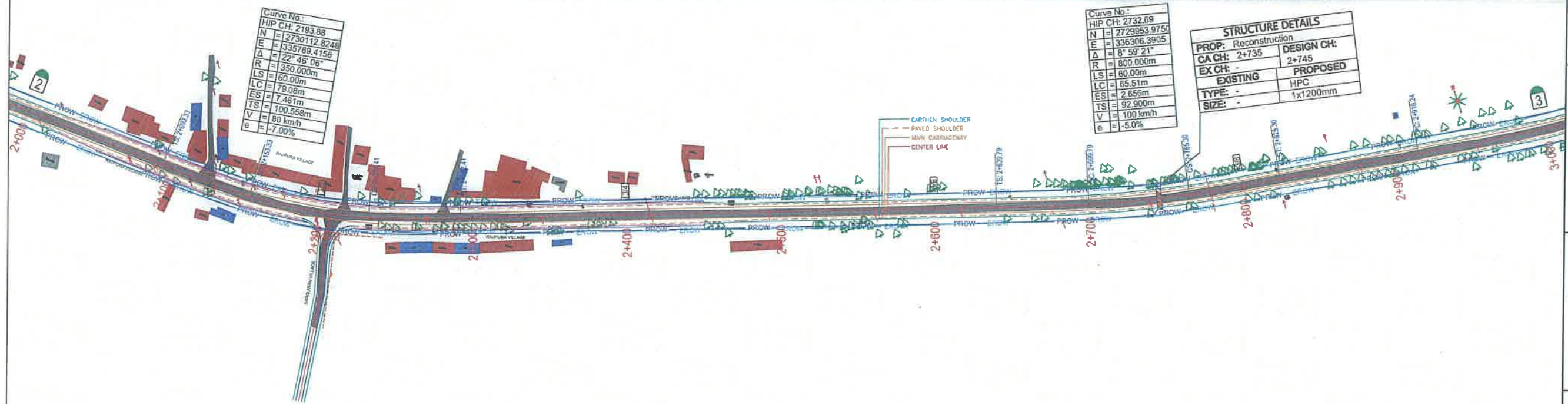
H	REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
				 MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	 M/s Rmireja Construction Company, der Bhawan, Prithivipur Pin-462004	 A & A CONSULTING ENGINEERS 18 Indus Empire Near shahpura Police Station Bhopal -M.P.-462035 Phone:-+91 (755) 2987600	 ENARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	 Khanna Royal Designers LLP 1403 Valley View Estate Gurugram Faridabad Road Gurugram Haryana-122003 M-8873858396 Email - khannaroyaldesigners@gmail.com		REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
					 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE		TITLE: PLAN & PROFILE Chainage 0+600 TO 1+000
R1	AS PER GENERAL COMMENTS	13-12-2024								ROAD NAME: GULGANJ TO BARNNA RIVER (NH-43) EXTENSION



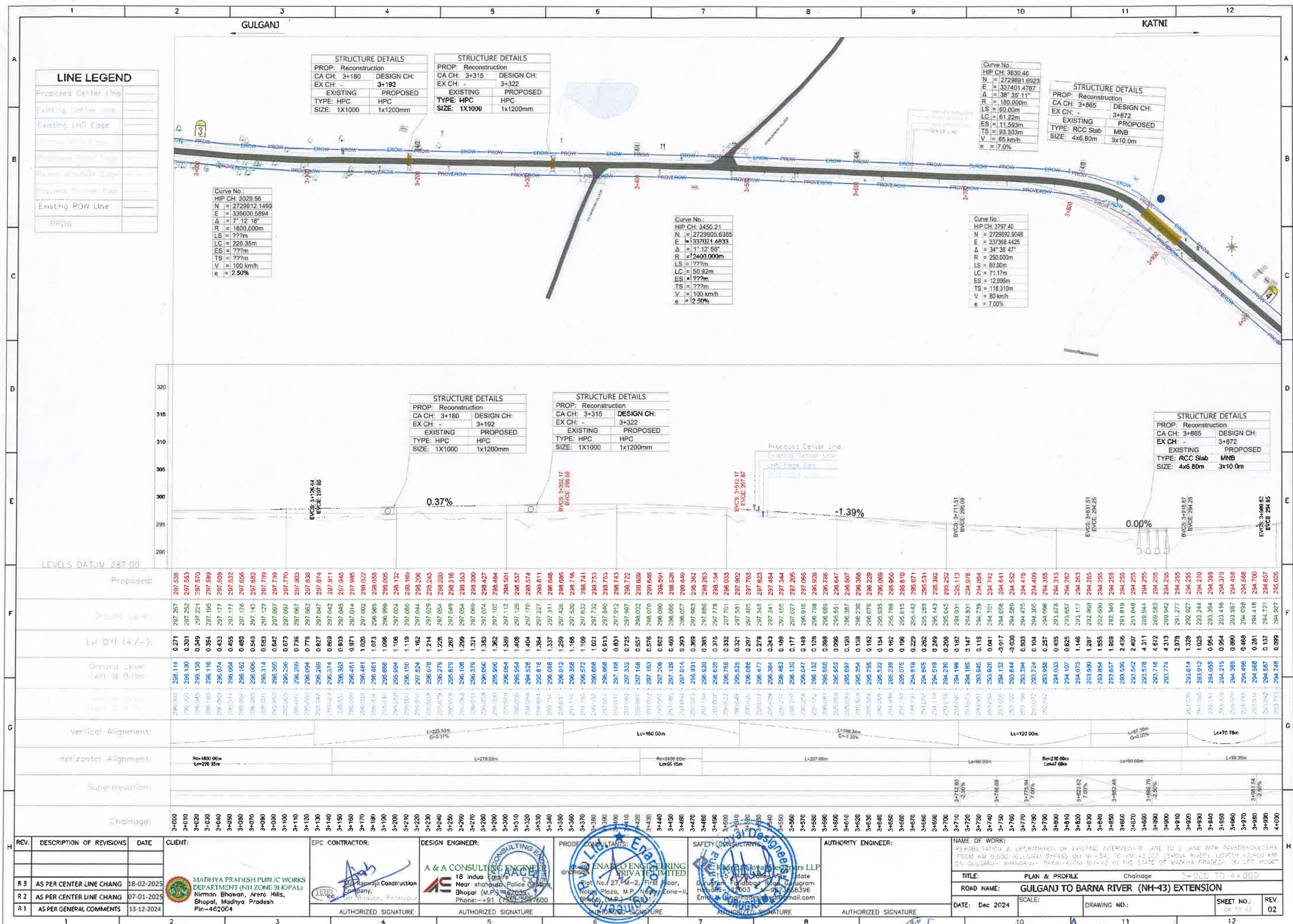
0+00	L=250.16m G=-2.44% Lc=120.00m	Rc=400.00m Lcr=254.62m	295.116
0+10			295.072
0+20			295.028
0+30			295.035
0+40			295.041
0+50			295.047
0+60			295.054
0+70			295.061
0+80			295.068
0+90			295.075
1+00	L=162.81m G=-0.39% Lc=274.36m	Lc=55.60m	297.902
1+10			297.858
1+20			297.814
1+30			297.770
1+40			297.726
1+50			297.682
1+60			297.638
1+70			297.594
1+80			297.550
1+90			297.506
2+00	L=198.12m G=-0.38% Lc=60.00m	L=500.82m	299.833
2+10			299.789
2+20			299.745
2+30			299.701
2+40			299.657
2+50			299.613
2+60			299.569
2+70			299.525
2+80			299.481
2+90			299.437
3+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	301.678
3+10			301.634
3+20			301.590
3+30			301.546
3+40			301.502
3+50			301.458
3+60			301.414
3+70			301.370
3+80			301.326
3+90			301.282
4+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	303.523
4+10			303.479
4+20			303.435
4+30			303.391
4+40			303.347
4+50			303.303
4+60			303.259
4+70			303.215
4+80			303.171
4+90			303.127
5+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	305.368
5+10			305.319
5+20			305.275
5+30			305.231
5+40			305.187
5+50			305.143
5+60			305.099
5+70			305.055
5+80			305.011
5+90			304.967
6+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	307.213
6+10			307.164
6+20			307.120
6+30			307.076
6+40			307.032
6+50			306.988
6+60			306.944
6+70			306.900
6+80			306.856
6+90			306.812
7+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	309.058
7+10			309.009
7+20			308.965
7+30			308.921
7+40			308.877
7+50			308.833
7+60			308.789
7+70			308.745
7+80			308.701
7+90			308.657
8+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	310.903
8+10			310.854
8+20			310.810
8+30			310.766
8+40			310.722
8+50			310.678
8+60			310.634
8+70			310.590
8+80			310.546
8+90			310.502
9+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	312.748
9+10			312.699
9+20			312.655
9+30			312.611
9+40			312.567
9+50			312.523
9+60			312.479
9+70			312.435
9+80			312.391
9+90			312.347
10+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	314.593
10+10			314.544
10+20			314.495
10+30			314.446
10+40			314.397
10+50			314.348
10+60			314.299
10+70			314.250
10+80			314.201
10+90			314.152
11+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	316.438
11+10			316.389
11+20			316.340
11+30			316.291
11+40			316.242
11+50			316.193
11+60			316.144
11+70			316.095
11+80			316.046
11+90			315.997
12+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	318.283
12+10			318.234
12+20			318.185
12+30			318.136
12+40			318.087
12+50			318.038
12+60			317.989
12+70			317.940
12+80			317.891
12+90			317.842
13+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	320.128
13+10			320.079
13+20			320.030
13+30			319.981
13+40			319.932
13+50			319.883
13+60			319.834
13+70			319.785
13+80			319.736
13+90			319.687
14+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	322.028
14+10			321.979
14+20			321.930
14+30			321.881
14+40			321.832
14+50			321.783
14+60			321.734
14+70			321.685
14+80			321.636
14+90			321.587
15+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	323.928
15+10			323.879
15+20			323.830
15+30			323.781
15+40			323.732
15+50			323.683
15+60			323.634
15+70			323.585
15+80			323.536
15+90			323.487
16+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	325.828
16+10			325.779
16+20			325.730
16+30			325.681
16+40			325.632
16+50			325.583
16+60			325.534
16+70			325.485
16+80			325.436
16+90			325.387
17+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	327.728
17+10			327.679
17+20			327.630
17+30			327.581
17+40			327.532
17+50			327.483
17+60			327.434
17+70			327.385
17+80			327.336
17+90			327.287
18+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	329.628
18+10			329.579
18+20			329.530
18+30			329.481
18+40			329.432
18+50			329.383
18+60			329.334
18+70			329.285
18+80			329.236
18+90			329.187
19+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	331.528
19+10			331.479
19+20			331.430
19+30			331.381
19+40			331.332
19+50			331.283
19+60			331.234
19+70			331.185
19+80			331.136
19+90			331.087
20+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	333.428
20+10			333.379
20+20			333.330
20+30			333.281
20+40			333.232
20+50			333.183
20+60			333.134
20+70			333.085
20+80			333.036
20+90			332.987
21+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	335.328
21+10			335.279
21+20			335.230
21+30			335.181
21+40			335.132
21+50			335.083
21+60			335.034
21+70			334.985
21+80			334.936
21+90			334.887
22+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	337.228
22+10			337.179
22+20			337.130
22+30			337.081
22+40			337.032
22+50			336.983
22+60			336.934
22+70			336.885
22+80			336.836
22+90			336.787
23+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	339.128
23+10			339.079
23+20			339.030
23+30			338.981
23+40			338.932
23+50			338.883
23+60			338.834
23+70			338.785
23+80			338.736
23+90			338.687
24+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	341.028
24+10			340.979
24+20			340.930
24+30			340.881
24+40			340.832
24+50			340.783
24+60			340.734
24+70			340.685
24+80			340.636
24+90			340.587
25+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	342.928
25+10			342.879
25+20			342.830
25+30			342.781
25+40			342.732
25+50			342.683
25+60			342.634
25+70			342.585
25+80			342.536
25+90			342.487
26+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	344.828
26+10			344.779
26+20			344.730
26+30			344.681
26+40			344.632
26+50			344.583
26+60			344.534
26+70			344.485
26+80			344.436
26+90			344.387
27+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	346.728
27+10			346.679
27+20			346.630
27+30			346.581
27+40			346.532
27+50			346.483
27+60			346.434
27+70			346.385
27+80			346.336
27+90			346.287
28+00	L=147.50 G=0.00% Lc=55.60m	Lc=55.60m	348.628
28+10			348.579
28+20			348.530
28+30			

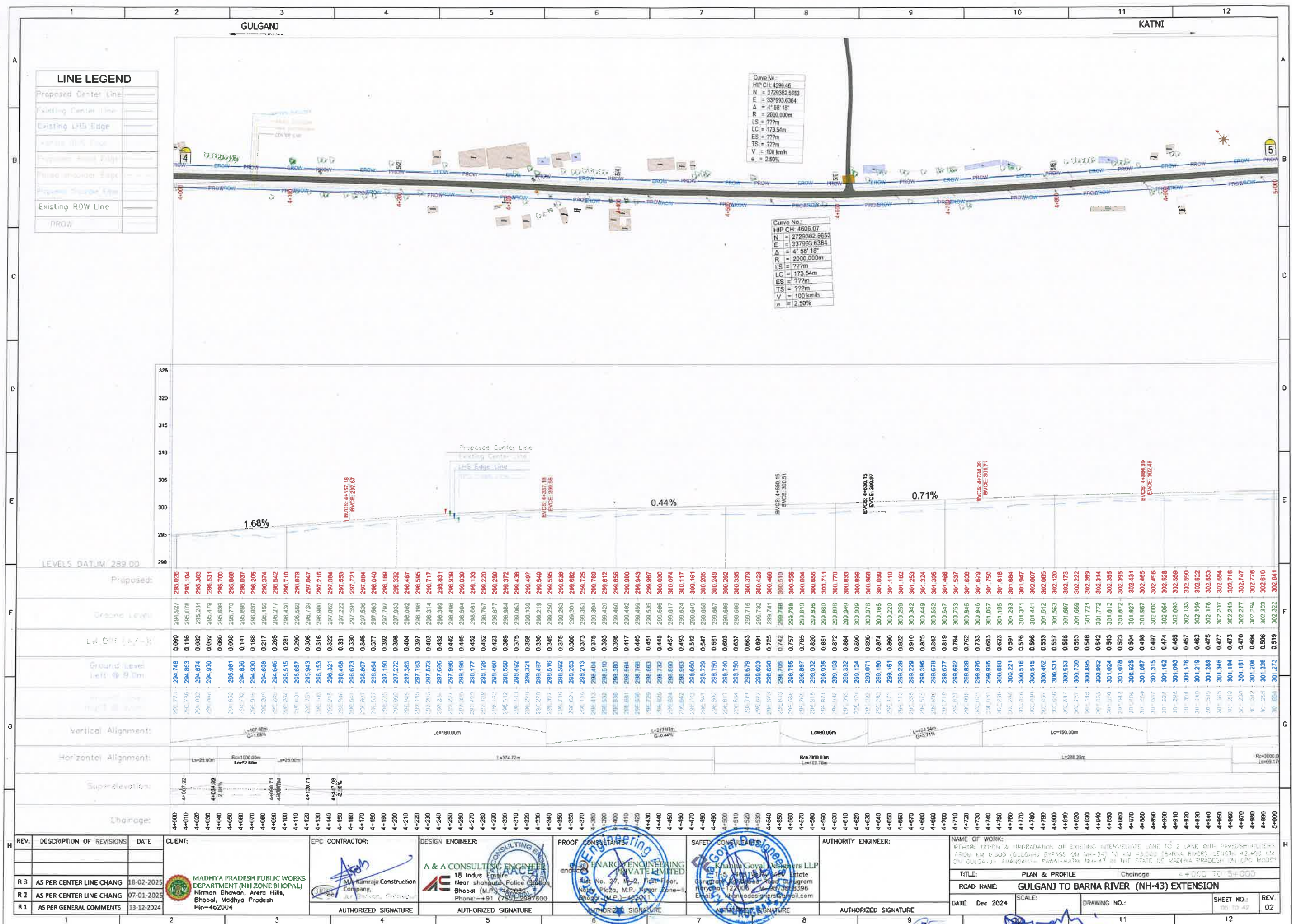
REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:														
			 MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	 M/s Ram Raja Construction Company, Jer Bhawan, Prithvipur	 A & A CONSULTING ENGINEERS 18 Indus Empire Near shahdada Police Station Bhopal (M.P.)-462035 Phone:-+91 (755) 2857600	 ENARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	 Khamrui Designers LLP 15/1403 Valley View Estate Gurugram, Faridabad Road Gurugram Haryana-122003 M-887958396 Email - khamsdesigners@gmail.com		REHABILITATION & UPGRADEATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE														
R1	AS PER GENERAL COMMENTS	13-12-2024		 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE	 AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	<table><tr><td colspan="2">TITLE: PLAN & PROFILE</td><td colspan="2">Chainage 1+000 TO 2+000</td></tr><tr><td colspan="4">ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION</td></tr><tr><td>DATE: Dec 2024</td><td>SCALE:</td><td>DRAWING NO.:</td><td><table><tr><td>SHEET NO.: 02 TO 42</td><td>REV. 01</td></tr></table></td></tr></table>	TITLE: PLAN & PROFILE		Chainage 1+000 TO 2+000		ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION				DATE: Dec 2024	SCALE:	DRAWING NO.:	<table><tr><td>SHEET NO.: 02 TO 42</td><td>REV. 01</td></tr></table>	SHEET NO.: 02 TO 42	REV. 01
TITLE: PLAN & PROFILE		Chainage 1+000 TO 2+000																					
ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION																							
DATE: Dec 2024	SCALE:	DRAWING NO.:	<table><tr><td>SHEET NO.: 02 TO 42</td><td>REV. 01</td></tr></table>	SHEET NO.: 02 TO 42	REV. 01																		
SHEET NO.: 02 TO 42	REV. 01																						

LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	



DESCRIPTION OF REVISIONS	DATE	CUSTOMER:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
								REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE

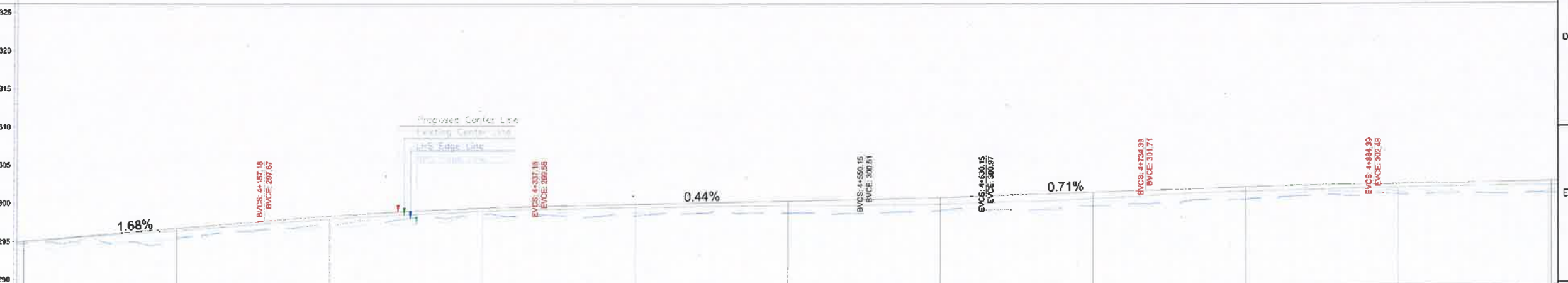




LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Proposed Shoulder Edge	
Proposed Turnout Edge	
Existing ROW Line	
PROW	

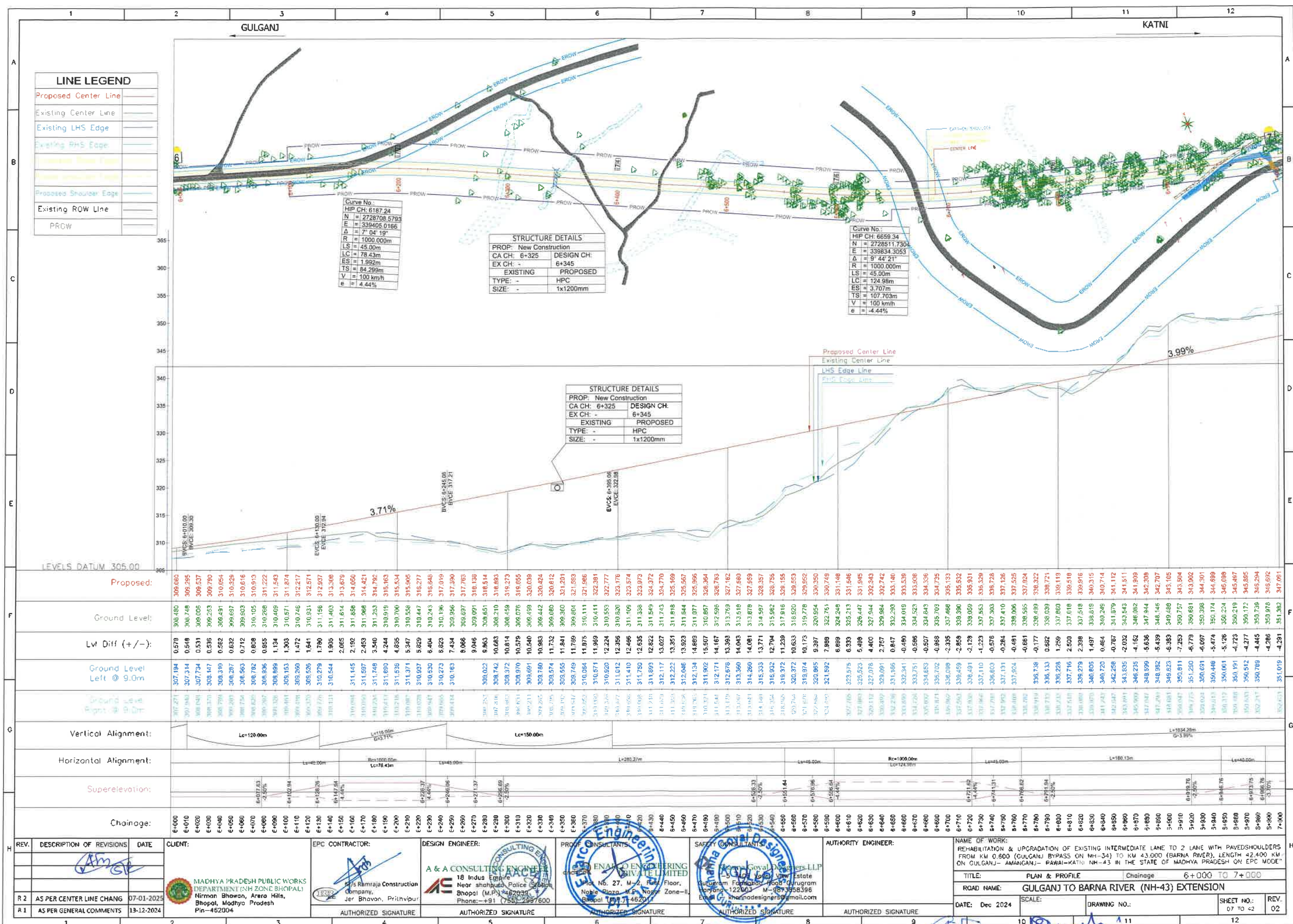
Curve No. 4
HPC CH: 4599.46
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E = 3379993.6384
Δ = 4° 58' 18"
R = 2000.000m
LS = 777m
LC = 173.54m
ES = 777m
TS = 777m
V = 100 km/h
e = 2.50%

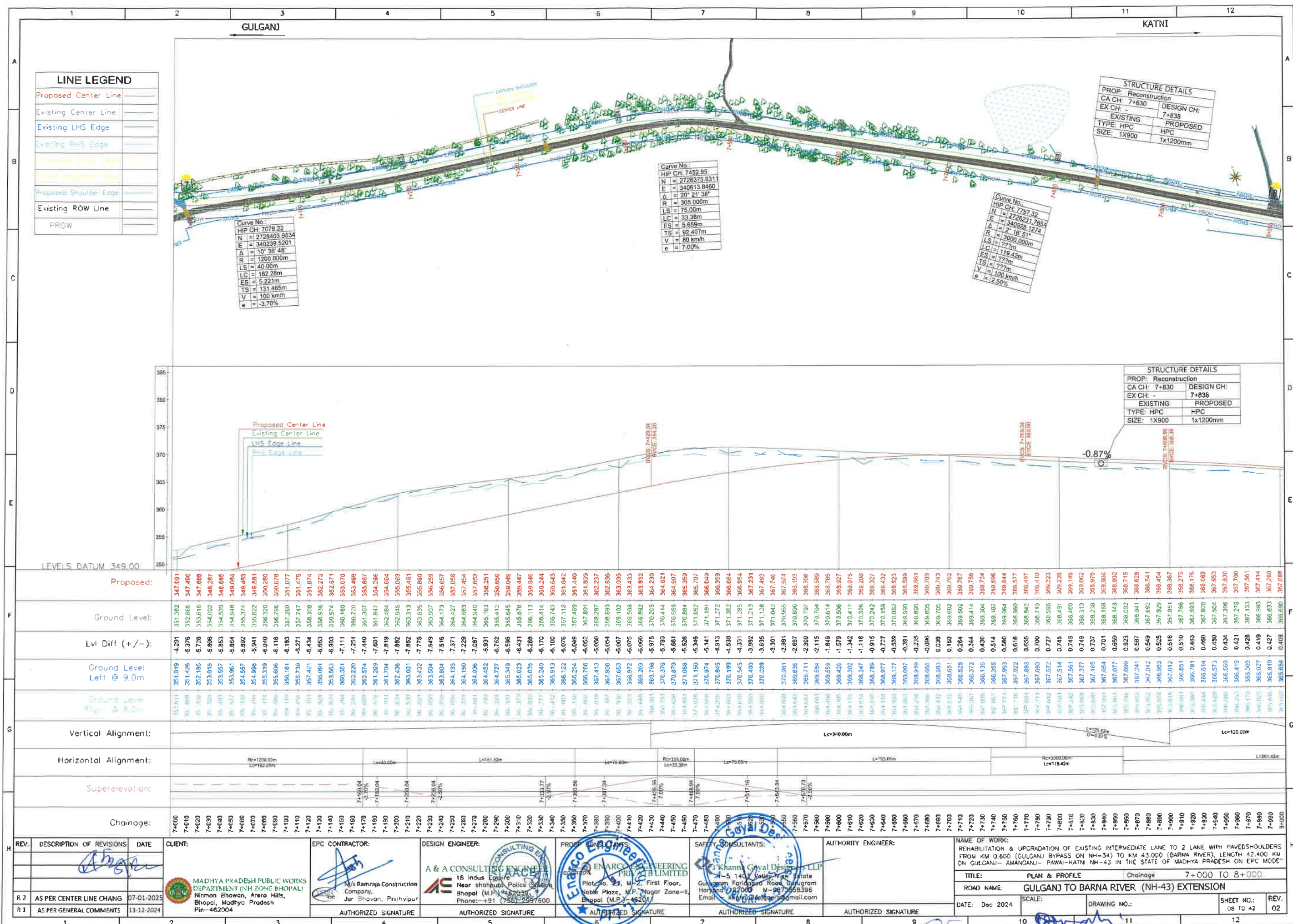
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E = 3379993.6384
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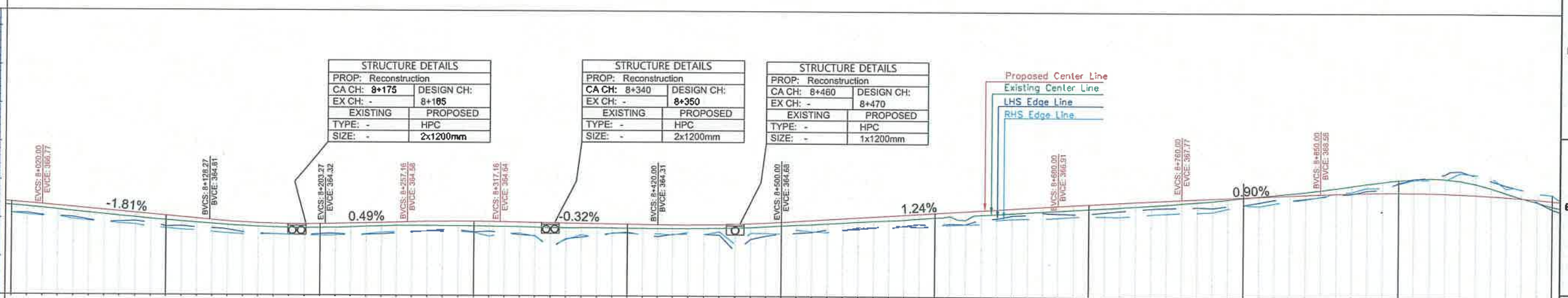
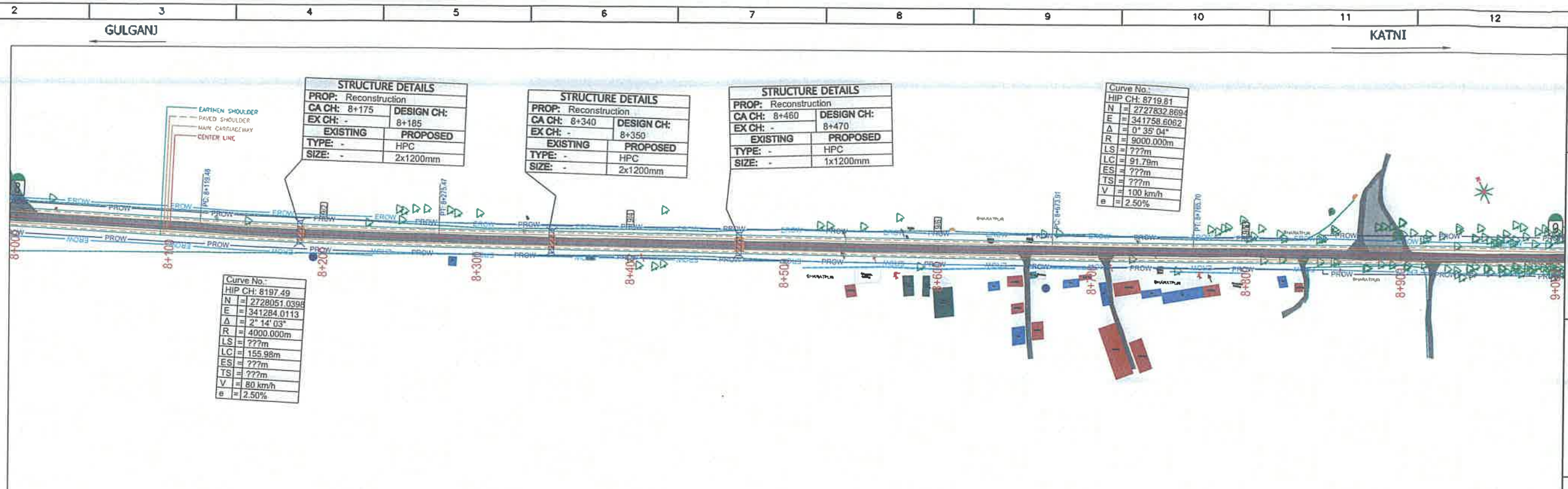


Station	Proposed	Ground	Existing
4+000	294.927	294.748	292.771
4+010	295.078	294.863	292.771
4+020	295.194	294.974	292.771
4+030	295.363	295.030	292.771
4+040	295.531	295.081	292.771
4+050	295.700	295.136	292.771
4+060	295.868	295.191	292.771
4+070	296.037	295.246	292.771
4+080	296.205	295.301	292.771
4+090	296.374	295.356	292.771
4+100	296.542	295.411	292.771
4+110	296.710	295.466	292.771
4+120	296.879	295.521	292.771
4+130	297.047	295.576	292.771
4+140	297.216	295.631	292.771
4+150	297.384	295.686	292.771
4+160	297.553	295.741	292.771
4+170	297.721	295.796	292.771
4+180	297.890	295.851	292.771
4+190	298.058	295.906	292.771
4+200	298.227	295.961	292.771
4+210	298.395	296.016	292.771
4+220	298.564	296.071	292.771
4+230	298.732	296.126	292.771
4+240	298.901	296.181	292.771
4+250	299.069	296.236	292.771
4+260	299.238	296.291	292.771
4+270	299.406	296.346	292.771
4+280	299.575	296.401	292.771
4+290	299.743	296.456	292.771
4+300	299.912	296.511	292.771
4+310	300.080	296.566	292.771
4+320	300.249	296.621	292.771
4+330	300.417	296.676	292.771
4+340	300.586	296.731	292.771
4+350	300.754	296.786	292.771
4+360	300.923	296.841	292.771
4+370	301.091	296.896	292.771
4+380	301.260	296.951	292.771
4+390	301.428	297.006	292.771
4+400	301.597	297.061	292.771
4+410	301.765	297.116	292.771
4+420	301.934	297.171	292.771
4+430	302.102	297.226	292.771
4+440	302.271	297.281	292.771
4+450	302.439	297.336	292.771
4+460	302.608	297.391	292.771
4+470	302.776	297.446	292.771
4+480	302.945	297.501	292.771
4+490	303.113	297.556	292.771
4+500	303.282	297.611	292.771

REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R3	AS PER CENTER LINE CHANG	18-02-2025	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE B KOPAL)	M. K. Raju Construction Company	A & A CONSULTING ENGINEERS	ENRONG ENGINEERING PRIVATE LIMITED	Khanna Goyal Designers LLP		REHABILITATION & IMPROVEMENT OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0+000 (GULGANJ BYPASS ON NH-34) TO KM 4+000 (BARNAR RIVER) LENGTH 4.000 KM ON GULGANJ - AMARGAON - PARAHATHA NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
R2	AS PER CENTER LINE CHANG	07-01-2025							
R1	AS PER GENERAL COMMENTS	13-12-2024							
AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	







Chainage:	Superelevation:	Horizontal Alignment:	Vertical Alignment:	Ground Level		Lvl Diff (+/-):	Ground Level:	Proposed:
				Ground Level Left @ 9.0m	Ground Level Right @ 9.0m			
8+000		n		365.618	365.618	0.473	366.842	367.115
8+010				365.407	365.618	0.484	366.461	366.946
8+020				365.238	365.336	0.482	366.207	366.769
8+030				365.185	365.236	0.508	366.062	366.588
8+040				364.837	365.120	0.527	365.880	366.407
8+050				364.820	364.738	0.548	365.690	366.226
8+060				364.475	364.485	0.573	365.471	366.045
8+070				364.274	364.533	0.578	365.295	365.854
8+080				364.191	364.630	0.580	365.102	365.693
8+090				363.693	363.930	0.580	364.901	365.502
8+100				363.500	363.956	0.558	364.740	365.321
8+110				363.389	363.794	0.528	364.430	364.959
8+120				363.304	363.691	0.469	364.280	364.778
8+130				363.041	363.523	0.493	364.125	364.618
8+140				362.925	363.215	0.465	364.023	364.448
8+150				362.907	363.034	0.466	363.923	364.369
8+160				362.958	362.942	0.469	363.852	364.321
8+170				362.883	362.889	0.495	363.789	364.254
8+180				362.797	362.862	0.513	363.764	364.277
8+190				362.791	362.893	0.502	363.799	364.301
8+200				362.813	363.019	0.534	363.815	364.349
8+210				362.880	362.920	0.512	363.897	364.399
8+220				363.023	362.932	0.464	363.984	364.448
8+230				363.206	363.093	0.459	364.039	364.499
8+240				363.284	363.129	0.446	364.101	364.547
8+250				363.348	363.263	0.483	364.113	364.586
8+260				363.391	363.416	0.533	364.102	364.635
8+270				363.320	363.538	0.592	364.096	364.660
8+280				363.198	363.288	0.608	364.063	364.672
8+290				362.737	363.383	0.616	364.039	364.655
8+300				363.138	363.149	0.622	364.005	364.627
8+310				363.149	362.949	0.610	363.985	364.596
8+320				362.762	362.822	0.632	363.932	364.564
8+330				361.442	361.242	0.642	363.891	364.533
8+340				362.342	362.442	0.632	363.859	364.501
8+350				362.977	362.881	0.598	363.864	364.470
8+360				362.564	362.944	0.559	363.879	364.438
8+370				363.217	363.170	0.550	363.857	364.407
8+380				363.177	363.314	0.540	363.835	364.375
8+390				363.107	362.773	0.479	363.812	364.290
8+400				362.977	362.662	0.490	363.822	364.312
8+410				363.337	363.121	0.488	363.820	364.288
8+420				363.050	363.082	0.480	363.845	364.305
8+430				364.312	363.965	0.613	364.936	365.550
8+440				364.203	364.289	0.634	365.040	365.674
8+450				364.103	364.510	0.581	365.217	365.798
8+460				364.203	364.300	0.576	365.322	365.922
8+470				364.395	364.545	0.500	365.546	366.046
8+480				364.470	364.539	1.084	365.077	366.170
8+490				364.521	365.139	0.573	365.722	366.294
8+500				365.070	365.239	0.584	365.834	366.418
8+510				365.196	365.659	0.580	365.953	366.542
8+520				365.252	365.726	0.595	366.072	366.669
8+530				364.010	363.813	0.557	364.745	365.302
8+540				364.021	364.010	0.582	364.844	365.426
8+550				364.312	363.965	0.613	364.936	365.550
8+560				364.203	364.289	0.634	365.040	365.674
8+570				364.103	364.510	0.581	365.217	365.798
8+580				364.203	364.300	0.576	365.322	365.922
8+590				364.395	364.545	0.500	365.546	366.046
8+600				364.470	364.539	1.084	365.077	366.170
8+610				364.521	365.139	0.573	365.722	366.294
8+620				365.070	365.239	0.584	365.834	366.418
8+630				365.196	365.659	0.580	365.953	366.542
8+640				365.252	365.726	0.595	366.072	366.669
8+650				364.010	363.813	0.557	364.745	365.302
8+660				364.021	364.010	0.582	364.844	365.426
8+670				364.312	363.965	0.613	364.936	365.550
8+680				364.203	364.289	0.634	365.040	365.674
8+690				364.103	364.510	0.581	365.217	365.798
8+700				364.203	364.300	0.576	365.322	365.922
8+710				364.395	364.545	0.500	365.546	366.046
8+720				364.470	364.539	1.084	365.077	366.170
8+730				364.521	365.139	0.573	365.722	366.294
8+740				365.070	365.239	0.584	365.834	366.418
8+750				365.196	365.659	0.580	365.953	366.542
8+760				365.252	365.726	0.595	366.072	366.669
8+770				364.010	363.813	0.557	364.745	365.302
8+780				364.021	364.010	0.582	364.844	365.426
8+790				364.312	363.965	0.613	364.936	365.550
8+800				364.203	364.289	0.634	365.040	365.674
8+810				364.103	364.510	0.581	365.217	365.798
8+820				364.203	364.300	0.576	365.322	365.922
8+830				364.395	364.545	0.500	365.546	366.046
8+840				364.470	364.539	1.084	365.077	366.170
8+850				364.521	365.139	0.573	365.722	366.294
8+860				365.070	365.239	0.584	365.834	366.418
8+870				365.196	365.659	0.580	365.953	366.542
8+880				365.252	365.726	0.595	366.072	366.669
8+890				364.010	363.813	0.557	364.745	365.302
8+900				364.021	364.010	0.582	364.844	365.426
8+910				364.312	363.965	0.613	364.936	365.550
8+920				364.203	364.289	0.634	365.040	365.674
8+930				364.103	364.510	0.581	365.217	365.798
8+940				364.203	364.300	0.576	365.322	365.922
8+950				364.395	364.545	0.500	365.546	366.046
8+960				364.470	364.539	1.084	365.077	366.170
8+970				364.521	365.139	0.573	365.722	366.294
8+980				365.070	365.239	0.584	365.834	366.418
8+990				365.196	365.659	0.580	365.953	366.542
9+000				365.252	365.726	0.595	366.072	366.669

REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
			 MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh. Pin-462004	 A & A CONSULTING ENGINEER 18 Indus Empire Near shahpura Police Station, Bhopal (M.P.) 462034 Phone: +91 (755) 2987600	 ENARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.R. Nagar Zone-II, Bhopal (M.P.) - 462011	 Khanna Civil Designers LLP 1-A 1483 Valley View Estate Gurugram, Faridabad Road, Gurugram Haryana - 122903 M-9873558396 Email - khannacivildesigners@gmail.com		REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER). LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE	
				 M/s Ram Raja Construction Company, Jer Bhovan, Prithvipur					TITLE: PLAN & PROFILE Chainage 8+000 TO 9+000
									ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION
R 1	AS PER GENERAL COMMENTS	13-12-2024		AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	DATE: Dec 2024 SCALE: DRAWING NO.: SHEET NO.: 09 TO 42 REV. 01

LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	

Curve No.:-	
HIP CH: 9188.70	
N = 2727642.1957	
E = 342184.7866	
Δ = 19° 44' 12"	
R = 400.000m	
LC = 115.00m	
ES = 22.79m	
TS = 7.406m	
VS = 127.323m	
V = 80 km/h	
e = 5.00%	

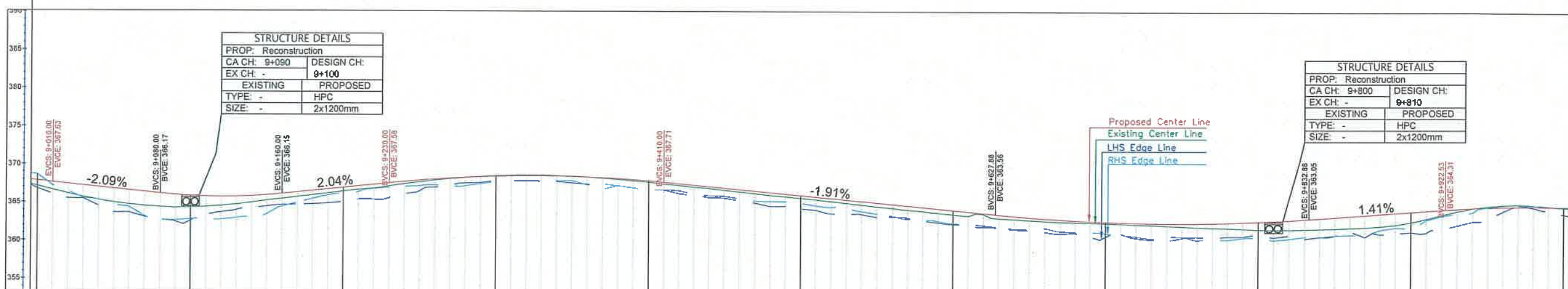
STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 9+100
CA CH: 9+090	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	2x1200mm

Curve No.:-	
HIP CH: 9577.21	
N = 2727612.3241	
E = 342575.9412	
Δ = 3° 45' 24"	
R = 1200.000m	
LC = 40.00m	
ES = 38.68m	
TS = 0.701m	
VS = 59.356m	
V = 80 km/h	
e = -3.70%	

Curve No.:-	
HIP CH: 9738.14	
N = 2727610.6098	
E = 342736.8891	
Δ = 9° 09' 36"	
R = 650.000m	
LC = 35.00m	
ES = 68.92m	
TS = 2.161m	
VS = 69.576m	
V = 80 km/h	
e = 4.38%	

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 9+810
CA CH: 9+800	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	2x1200mm

Curve No.:-	
HIP CH: 9985.81	
N = 2727568.5403	
E = 342981.1973	
Δ = 15° 24' 58"	
R = 230.000m	
LC = 30.00m	
ES = 31.88m	
TS = 2.652m	
VS = 46.152m	
V = 50 km/h	
e = 4.83%	

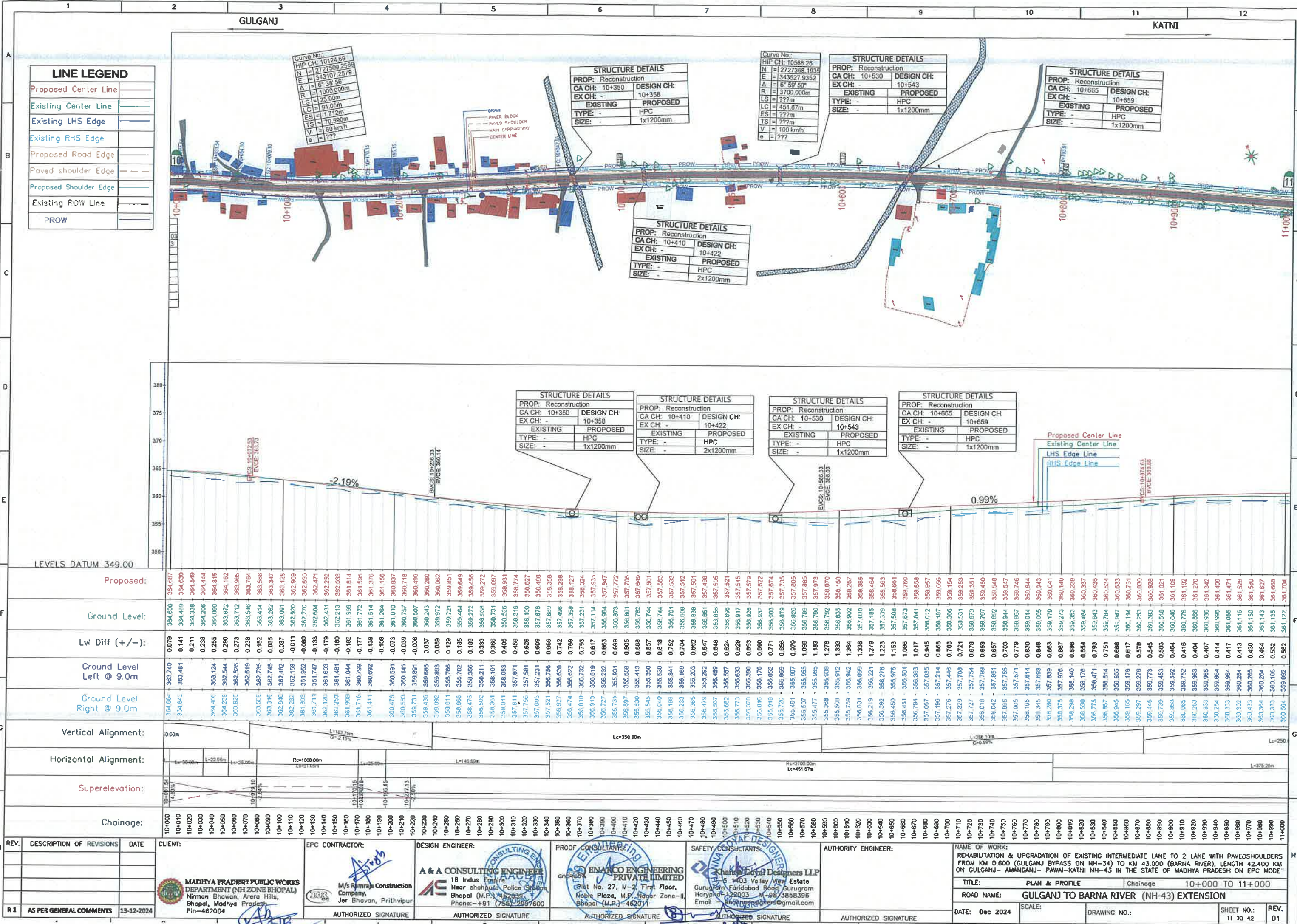


Chainage:	Proposed:	Ground Level:	Lvl Diff (+/-):	Ground Level Left @ 9.0m	Ground Level Right @ 9.0m	Vertical Alignment:	Horizontal Alignment:	Superelevation:
9+000	367.833	367.725	0.708	368.642	368.787	L=70.00m G=-2.09%	L=115.00m	9+001.81 -2.10%
9+010	367.633	367.525	1.025	367.102	367.062			
9+020	367.425	367.317	1.293	366.438	366.487			
9+030	367.216	367.108	1.514	365.542	365.487			
9+040	367.007	366.899	1.691	365.335	365.335			
9+050	366.798	366.690	1.816	364.653	364.653			
9+060	366.589	366.481	1.842	364.351	364.351			
9+070	366.380	366.272	1.852	364.224	364.224			
9+080	366.171	366.063	1.785	364.075	364.075			
9+090	365.962	365.854	1.689	363.927	363.927			
9+100	365.753	365.645	1.551	363.779	363.779			
9+110	365.544	365.436	1.180	363.631	363.631			
9+120	365.335	365.227	1.029	363.483	363.483			
9+130	365.126	365.018	0.846	363.335	363.335			
9+140	364.917	364.809	0.693	363.187	363.187			
9+150	364.708	364.600	0.647	363.039	363.039			
9+160	364.499	364.391	0.605	362.891	362.891			
9+170	364.290	364.182	0.571	362.743	362.743			
9+180	364.081	363.973	0.541	362.595	362.595			
9+190	363.872	363.764	0.492	362.447	362.447			
9+200	363.663	363.555	0.469	362.299	362.299			
9+210	363.454	363.346	0.507	362.151	362.151			
9+220	363.245	363.137	0.412	362.003	362.003			
9+230	363.036	362.928	0.327	361.855	361.855			
9+240	362.827	362.719	0.221	361.707	361.707			
9+250	362.618	362.510	0.221	361.559	361.559			
9+260	362.409	362.301	0.142	361.411	361.411			
9+270	362.200	362.092	0.064	361.263	361.263			
9+280	361.991	361.883	0.064	361.115	361.115			
9+290	361.782	361.674	0.145	360.967	360.967			
9+300	361.573	361.465	0.172	360.819	360.819			
9+310	361.364	361.256	0.220	360.671	360.671			
9+320	361.155	361.047	0.238	360.523	360.523			
9+330	360.946	360.838	0.253	360.375	360.375			
9+340	360.737	360.629	0.270	360.227	360.227			
9+350	360.528	360.420	0.307	360.079	360.079			
9+360	360.319	360.211	0.326	359.931	359.931			
9+370	360.110	360.002	0.355	359.783	359.783			
9+380	359.901	359.793	0.355	359.635	359.635			
9+390	359.692	359.584	0.355	359.487	359.487			
9+400	359.483	359.375	0.355	359.339	359.339			
9+410	359.274	359.166	0.355	359.191	359.191			
9+420	359.065	358.957	0.355	359.043	359.043			
9+430	358.856	358.748	0.355	358.895	358.895			
9+440	358.647	358.539	0.355	358.747	358.747			
9+450	358.438	358.330	0.355	358.599	358.599			
9+460	358.229	358.121	0.355	358.451	358.451			
9+470	358.020	357.912	0.355	358.303	358.303			
9+480	357.811	357.703	0.355	358.155	358.155			
9+490	357.602	357.494	0.355	358.007	358.007			
9+500	357.393	357.285	0.355	357.859	357.859			
9+510	357.184	357.076	0.355	357.711	357.711			
9+520	356.975	356.867	0.355	357.563	357.563			
9+530	356.766	356.658	0.355	357.415	357.415			
9+540	356.557	356.449	0.355	357.267	357.267			
9+550	356.348	356.240	0.355	357.119	357.119			
9+560	356.139	356.031	0.355	356.971	356.971			
9+570	355.930	355.822	0.355	356.823	356.823			
9+580	355.721	355.613	0.355	356.675	356.675			
9+590	355.512	355.404	0.355	356.527	356.527			
9+600	355.303	355.195	0.355	356.379	356.379			
9+610	355.094	354.986	0.355	356.231	356.231			
9+620	354.885	354.777	0.355	356.083	356.083			
9+630	354.676	354.568	0.355	355.935	355.935			
9+640	354.467	354.359	0.355	355.787	355.787			
9+650	354.258	354.150	0.355	355.639	355.639			
9+660	354.049	353.941	0.355	355.491	355.491			
9+670	353.840	353.732	0.355	355.343	355.343			
9+680	353.631	353.523	0.355	355.195	355.195			
9+690	353.422	353.314	0.355	355.047	355.047			
9+700	353.213	353.105	0.355	354.899	354.899			
9+710	353.004	352.896	0.355	354.751	354.751			
9+720	352.795	352.687	0.355	354.603	354.603			
9+730	352.586	352.478	0.355	354.455	354.455			
9+740	352.377	352.269	0.355	354.307	354.307			
9+750	352.168	352.060	0.355	354.159	354.159			
9+760	351.959	351.851	0.355	354.011	354.011			
9+770	351.750	351.642	0.355	353.863	353.863			
9+780	351.541	351.433	0.355	353.715	353.715			
9+790	351.332	351.224	0.355	353.567	353.567			
9+800	351.123	351.015	0.355	353.419	353.419			
9+810	350.914	350.806	0.355	353.271	353.271			
9+820	350.705	350.597	0.355	353.123	353.123			
9+830	350.496	350.388	0.355	352.975	352.975			
9+840	350.287	350.179	0.355	352.827	352.827			
9+850	350.078	349.970	0.355	352.679	352.679			
9+860	349.869	349.761	0.355	352.531	352.531			
9+870	349.660	349.552	0.355	352.383	352.383			
9+880	349.451	349.343	0.355	352.235	352.235			
9+890	349.242	349.134	0.355	352.087	352.087			
9+900	349.033	348.925	0.355	351.939	351.939			
9+910	348.824	348.716	0.355	351.791	351.791			
9+920	348.615	348.507	0.355	351.643	351.643			
9+930	348.406	348.298	0.355	351.495	351.495			
9+940	348.197	348.089	0.355	351.347	351.347			
9+950	347.988	347.880	0.355	351.199	351.199			
9+960	347.779	347.671	0.355	351.051	351.051			
9+970	347.570	347.462	0.355	350.903	350.903			
9+980	347.361	347.253	0.355	350.755	350.755			
9+990	347.152	347.044	0.355	350.607	350.607			
10+000	346.943	346.835	0.355	350.459	350.459			

REV.	DESCRIPTION OF REVISIONS	DATE
R 1	AS PER GENERAL COMMENTS	13-12-2024

CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:
MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/S. Madhya Construction Company, Jer Bhawan, Prithvipur	A & A CONSULTING ENGINEER 18 Indus Empire Near Shahpura Police Station Bhopal (M.P.) 462033 Phone: +91 7550 2987600	ENAMCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.) - 462011	Khanna Koyal Designers LLP 1443 Valley View Estate Gurgaon, Gurugram Road, Gurgaon Haryana 122003 Phone: +91 9873855396 Email: khannakoyal@gmail.com	

NAME OF WORK:	REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
TITLE:	PLAN & PROFILE
ROAD NAME:	GULGANJ TO BARNA RIVER (NH-43) EXTENSION
DATE:	Dec 2024
SCALE:	
DRAWING NO.:	
SHEET NO.:	10 TO 42
REV.:	01

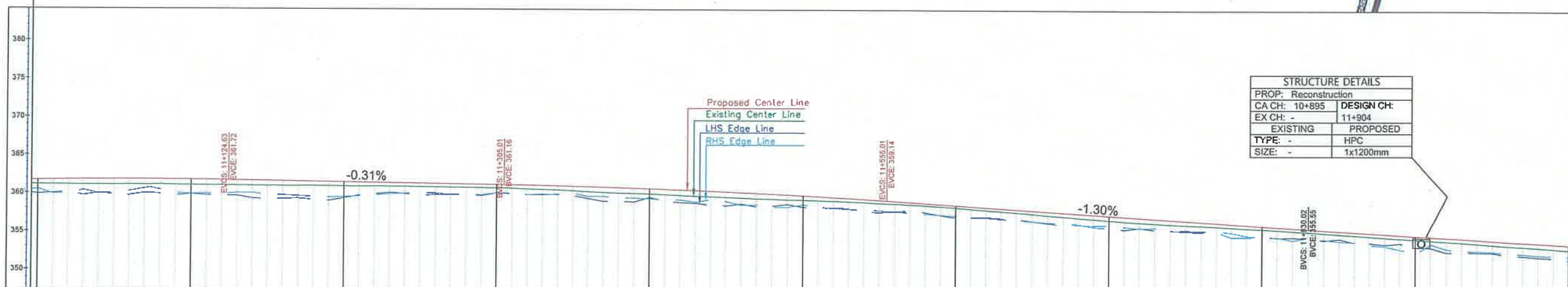


LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	

Curve No.: 1	
HIP CH:	11220.71
N =	2727086.7037
E =	344117.1676
A =	0° 59' 03"
R =	6000.000m
LS =	777m
LC =	103.05m
ES =	777m
TS =	777m
V =	100 km/h
e =	777

Curve No.: 2	
HIP CH:	11585.22
N =	2727086.7037
E =	344443.3261
A =	0° 51' 57"
R =	8000.000m
LS =	777m
LC =	120.89m
ES =	777m
TS =	777m
V =	100 km/h
e =	777

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 11+904
CA CH: 10+895	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm



STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 11+904
CA CH: 10+895	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

Chainage:	Proposed:	Ground Level:	LM Diff (+/-):	Ground Level Left @ 9.0m	Ground Level Right @ 9.0m
11+000	361.704	361.122	0.582	359.892	360.504
11+010	361.735	361.104	0.631	359.888	359.888
11+020	361.761	361.102	0.659	359.971	359.971
11+030	361.762	361.088	0.674	359.952	359.952
11+040	361.797	361.083	0.714	359.976	359.976
11+050	361.807	361.091	0.717	359.984	359.984
11+060	361.812	361.102	0.711	359.991	359.991
11+070	361.807	361.097	0.711	359.991	359.991
11+080	361.796	361.123	0.673	359.984	359.984
11+090	361.761	361.051	0.710	359.955	359.955
11+100	361.734	361.027	0.707	359.938	359.938
11+110	361.703	361.021	0.682	359.930	359.930
11+120	361.672	361.021	0.651	359.922	359.922
11+130	361.641	361.021	0.620	359.914	359.914
11+140	361.610	361.021	0.589	359.906	359.906
11+150	361.579	361.021	0.558	359.898	359.898
11+160	361.548	361.021	0.527	359.890	359.890
11+170	361.517	361.021	0.496	359.882	359.882
11+180	361.486	361.021	0.465	359.874	359.874
11+190	361.455	361.021	0.434	359.866	359.866
11+200	361.424	361.021	0.403	359.858	359.858
11+210	361.393	361.021	0.372	359.850	359.850
11+220	361.362	361.021	0.341	359.842	359.842
11+230	361.331	361.021	0.310	359.834	359.834
11+240	361.300	361.021	0.279	359.826	359.826
11+250	361.269	361.021	0.248	359.818	359.818
11+260	361.238	361.021	0.217	359.810	359.810
11+270	361.207	361.021	0.186	359.802	359.802
11+280	361.176	361.021	0.155	359.794	359.794
11+290	361.145	361.021	0.124	359.786	359.786
11+300	361.114	361.021	0.093	359.778	359.778
11+310	361.083	361.021	0.062	359.770	359.770
11+320	361.052	361.021	0.031	359.762	359.762
11+330	361.021	361.021	0.000	359.754	359.754
11+340	360.990	361.021	-0.031	359.746	359.746
11+350	360.959	361.021	-0.062	359.738	359.738
11+360	360.928	361.021	-0.093	359.730	359.730
11+370	360.897	361.021	-0.124	359.722	359.722
11+380	360.866	361.021	-0.155	359.714	359.714
11+390	360.835	361.021	-0.186	359.706	359.706
11+400	360.804	361.021	-0.217	359.698	359.698
11+410	360.773	361.021	-0.248	359.690	359.690
11+420	360.742	361.021	-0.279	359.682	359.682
11+430	360.711	361.021	-0.310	359.674	359.674
11+440	360.680	361.021	-0.341	359.666	359.666
11+450	360.649	361.021	-0.372	359.658	359.658
11+460	360.618	361.021	-0.403	359.650	359.650
11+470	360.587	361.021	-0.434	359.642	359.642
11+480	360.556	361.021	-0.465	359.634	359.634
11+490	360.525	361.021	-0.496	359.626	359.626
11+500	360.494	361.021	-0.527	359.618	359.618
11+510	360.463	361.021	-0.558	359.610	359.610
11+520	360.432	361.021	-0.589	359.602	359.602
11+530	360.401	361.021	-0.620	359.594	359.594
11+540	360.370	361.021	-0.651	359.586	359.586
11+550	360.339	361.021	-0.682	359.578	359.578
11+560	360.308	361.021	-0.713	359.570	359.570
11+570	360.277	361.021	-0.744	359.562	359.562
11+580	360.246	361.021	-0.775	359.554	359.554
11+590	360.215	361.021	-0.806	359.546	359.546
11+600	360.184	361.021	-0.837	359.538	359.538
11+610	360.153	361.021	-0.868	359.530	359.530
11+620	360.122	361.021	-0.899	359.522	359.522
11+630	360.091	361.021	-0.930	359.514	359.514
11+640	360.060	361.021	-0.961	359.506	359.506
11+650	360.029	361.021	-0.992	359.498	359.498
11+660	359.998	361.021	-1.023	359.490	359.490
11+670	359.967	361.021	-1.054	359.482	359.482
11+680	359.936	361.021	-1.085	359.474	359.474
11+690	359.905	361.021	-1.116	359.466	359.466
11+700	359.874	361.021	-1.147	359.458	359.458
11+710	359.843	361.021	-1.178	359.450	359.450
11+720	359.812	361.021	-1.209	359.442	359.442
11+730	359.781	361.021	-1.240	359.434	359.434
11+740	359.750	361.021	-1.271	359.426	359.426
11+750	359.719	361.021	-1.302	359.418	359.418
11+760	359.688	361.021	-1.333	359.410	359.410
11+770	359.657	361.021	-1.364	359.402	359.402
11+780	359.626	361.021	-1.395	359.394	359.394
11+790	359.595	361.021	-1.426	359.386	359.386
11+800	359.564	361.021	-1.457	359.378	359.378
11+810	359.533	361.021	-1.488	359.370	359.370
11+820	359.502	361.021	-1.519	359.362	359.362
11+830	359.471	361.021	-1.550	359.354	359.354
11+840	359.440	361.021	-1.581	359.346	359.346
11+850	359.409	361.021	-1.612	359.338	359.338
11+860	359.378	361.021	-1.643	359.330	359.330
11+870	359.347	361.021	-1.674	359.322	359.322
11+880	359.316	361.021	-1.705	359.314	359.314
11+890	359.285	361.021	-1.736	359.306	359.306
11+900	359.254	361.021	-1.767	359.298	359.298
11+910	359.223	361.021	-1.798	359.290	359.290
11+920	359.192	361.021	-1.829	359.282	359.282
11+930	359.161	361.021	-1.860	359.274	359.274
11+940	359.130	361.021	-1.891	359.266	359.266
11+950	359.099	361.021	-1.922	359.258	359.258
11+960	359.068	361.021	-1.953	359.250	359.250
11+970	359.037	361.021	-1.984	359.242	359.242
11+980	359.006	361.021	-2.015	359.234	359.234
11+990	358.975	361.021	-2.046	359.226	359.226
12+000	358.944	361.021	-2.077	359.218	359.218

CLIENT:		EPC CONTRACTOR:		DESIGN ENGINEER:		PROOF CONSULTANTS:		SAFETY CONSULTANTS:		AUTHORITY ENGINEER:		NAME OF WORK:	
MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Avera Hills, Bhopal, Madhya Pradesh Pin-462004		 M/s. Kamrja Construction Company, Jer Bhovan, Prithvipur		A & A CONSULTING ENGINEERS 18 Indus Empire Near shahupada Police Station, Bhopal (M.P.)-462033 Phone:-+91 (755) 2997600		ENANCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Mable Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011		Kamrja Coyal Designers LLP F-6 1st/3 Valley View Estate Gurugram Focidabad Road, Gurugram Haryana-122003 M-9873858396 Email : kamrjadesigners@gmail.com				REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE	
		 AUTHORIZED SIGNATURE		 AUTHORIZED SIGNATURE		 AUTHORIZED SIGNATURE		 AUTHORIZED SIGNATURE		 AUTHORIZED SIGNATURE		TITLE: PLAN & PROFILE Chainage 11+000 TO 12+000	
										ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION		DATE: Dec 2024	
										SCALE:		DRAWING NO.:	
												SHEET NO.: 12 TO 42	
												REV. 01	

LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	

Curve No.:	
HIP CH:	13144.56
N:	2726167.4373
E:	345602.8363
A:	1° 57' 13"
R:	2500.000m
LS:	277m
LC:	85.25m
ES:	277m
TS:	277m
V:	100 km/h
e:	2.50%

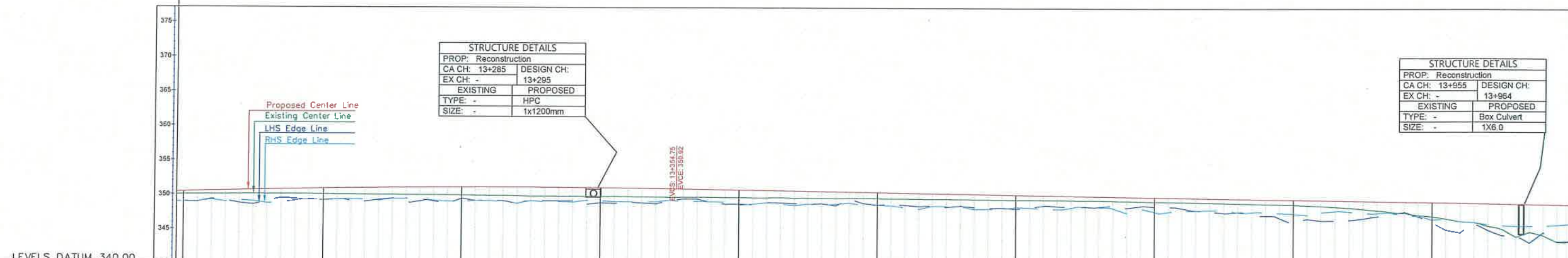
STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 13+295
CA CH: 13+285	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

Curve No.:	
HIP CH:	13750.98
N:	2725873.9713
E:	345333.5316
A:	8° 44' 54"
R:	1850.000m
LS:	277m
LC:	282.48m
ES:	277m
TS:	277m
V:	100 km/h
e:	2.50%

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 13+964
CA CH: 13+955	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X6.0

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 13+295
CA CH: 13+285	EX CH: -
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 13+964
CA CH: 13+955	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X6.0



LEVELS DATUM 340.00

Superelevation:	Horizontal Alignment:	Vertical Alignment:	Ground Level Right @ 9.0m	Ground Level Left @ 9.0m	Lvl Diff (+/-):	Ground Level:	Proposed:
	L=100.64m	L=500.00m	348.923	349.017	0.430	350.020	350.450
			349.016	348.954	0.472	350.036	350.508
	R=2500.00m Lc=85.25m		349.25	349.358	0.514	350.050	350.564
			348.98	349.154	0.549	350.067	350.616
			349.16	348.790	0.575	350.082	350.666
			349.05	348.587	0.608	350.105	350.714
			348.75	349.044	0.673	350.086	350.759
			348.84	348.544	0.702	350.089	350.801
			349.15	349.419	0.746	350.095	350.841
			349.33	349.154	0.775	350.103	350.878
			348.22	349.234	0.834	350.079	350.913
			349.32	349.318	0.679	350.068	350.944
			349.35	349.131	0.827	350.047	350.974
			349.26	349.000	0.963	350.038	351.001
			349.14	349.288	0.883	350.042	351.025
			349.43	349.484	1.024	350.022	351.046
			349.45	349.012	1.053	350.012	351.051
			349.33	349.080	1.107	349.975	351.082
			349.20	349.077	1.113	349.983	351.095
			349.05	348.709	1.141	349.965	351.106
			349.03	348.459	1.177	349.958	351.115
			349.13	349.155	1.211	349.910	351.121
			349.15	349.249	1.229	349.895	351.124
			349.92	349.135	1.237	349.888	351.125
			349.79	348.759	1.268	349.855	351.123
			349.13	349.249	1.300	349.818	351.119
			349.06	349.132	1.303	349.809	351.112
			349.92	348.136	1.314	349.798	351.102
			349.95	349.135	1.288	349.803	351.090
			349.22	348.654	1.297	349.778	351.075
			349.14	348.685	1.286	349.771	351.058
			349.05	348.769	1.261	349.778	351.038
			349.027	348.993	1.280	349.754	351.015
			349.037	348.947	1.261	349.729	350.990
			349.037	348.721	1.242	349.720	350.962
			349.275	349.241	1.206	349.696	350.932
			349.053	349.431	1.195	349.705	350.899
			349.084	349.443	1.190	349.716	350.866
			349.005	348.949	1.136	349.697	350.834
			349.036	348.723	1.130	349.671	350.801
			349.76	348.743	1.109	349.665	350.766
			348.742	348.841	1.089	349.646	350.735
			348.932	348.943	1.053	349.649	350.702
			348.757	348.901	1.013	349.639	350.669
			348.511	348.811	1.034	349.602	350.636
			348.792	348.737	0.979	349.624	350.603
			349.567	348.811	0.988	349.582	350.570
			348.752	348.502	0.951	349.587	350.537
			349.911	349.477	0.923	349.551	350.504
			348.500	348.864	0.873	349.598	350.471
			348.514	348.847	0.883	349.595	350.438
			348.536	348.711	0.681	349.544	350.406
			348.287	348.669	0.843	349.530	350.373
			348.077	348.431	0.834	349.508	350.340
			348.462	348.932	0.808	349.498	350.307
			348.472	348.344	0.787	349.487	350.274
			348.423	348.912	0.770	349.471	350.241
			348.052	348.202	0.735	349.440	350.208
			348.102	348.245	0.727	349.415	350.142
			348.348	348.066	0.728	349.381	350.109
			348.121	348.550	0.677	349.357	350.044
			348.060	348.481	0.631	349.380	350.011
			348.295	348.465	0.636	349.342	349.978
			348.423	349.411	0.627	349.318	349.945
			348.176	348.508	0.598	349.315	349.912
			347.525	348.258	0.608	349.281	349.879
			347.997	348.510	0.611	349.202	349.813
			347.690	348.450	0.626	349.154	349.780
			347.693	348.399	0.621	349.127	349.747
			347.845	348.213	0.621	349.093	349.714
			347.864	347.991	0.628	349.053	349.681
			347.949	347.750	0.627	349.022	349.649
			347.933	347.542	0.633	349.983	349.616
			347.628	347.671	0.600	349.923	349.583
			347.656	347.348	0.606	349.882	349.550
			347.656	347.140	0.685	349.832	349.517
			347.545	348.706	0.691	349.793	349.484
			347.418	346.237	0.718	349.733	349.451
			347.293	346.660	0.784	349.634	349.418
			347.638	346.447	0.835	349.550	349.395
			347.809	346.448	0.929	349.423	349.352
			347.746	346.638	1.010	349.309	349.318
			347.591	346.761	1.104	349.123	349.296
			347.532	347.080	1.321	347.933	349.254
			347.501	347.393	1.503	347.717	349.221
			347.293	347.725	1.636	347.551	349.188
			347.110	347.053	1.685	347.270	349.155
			346.627	346.254	2.050	347.072	349.122
			346.746	345.146	2.324	346.784	349.089
			346.373	344.774	2.677	346.379	349.056
			346.287	346.136	2.731	346.292	349.023
			345.900	345.133	3.264	345.726	348.990
			345.816	344.302	3.965	345.292	348.957
			345.748	344.435	4.741	344.183	348.924
			345.793	343.322	2.983	344.898	348.891
			345.752	344.814	4.497	344.362	348.859
			345.688	343.905	5.365	343.441	348.826
			345.635	343.905	5.375	343.441	348.826

LINE LEGEND	
Proposed Center Line	—
Existing Center Line	—
Existing LHS Edge	—
Existing RHS Edge	—
Proposed Road Edge	—
Paved shoulder Edge	—
Proposed Shoulder Edge	—
Existing ROW Line	—
PROW	—

Curve No.:
 HPI CH: 14123.51
 N = 2725745.1528
 E = 346683.7733
 A = 1° 28' 36"
 R = 3000.000m
 LS = 222m
 LC = 77.35m
 ES = 222m
 TS = 222m
 V = 100 km/h
 e = 2.50%

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 12+255	DESIGN CH: 14+270
EX CH: -	
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

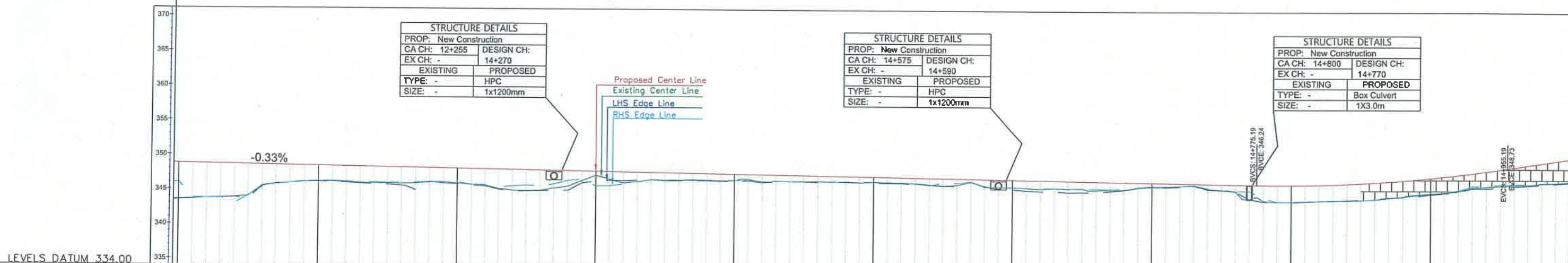
STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 14+575	DESIGN CH: 14+590
EX CH: -	
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 14+800	DESIGN CH: 14+770
EX CH: -	
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 12+255	DESIGN CH: 14+270
EX CH: -	
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 14+575	DESIGN CH: 14+590
EX CH: -	
EXISTING	PROPOSED
TYPE: -	HPC
SIZE: -	1x1200mm

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 14+800	DESIGN CH: 14+770
EX CH: -	
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

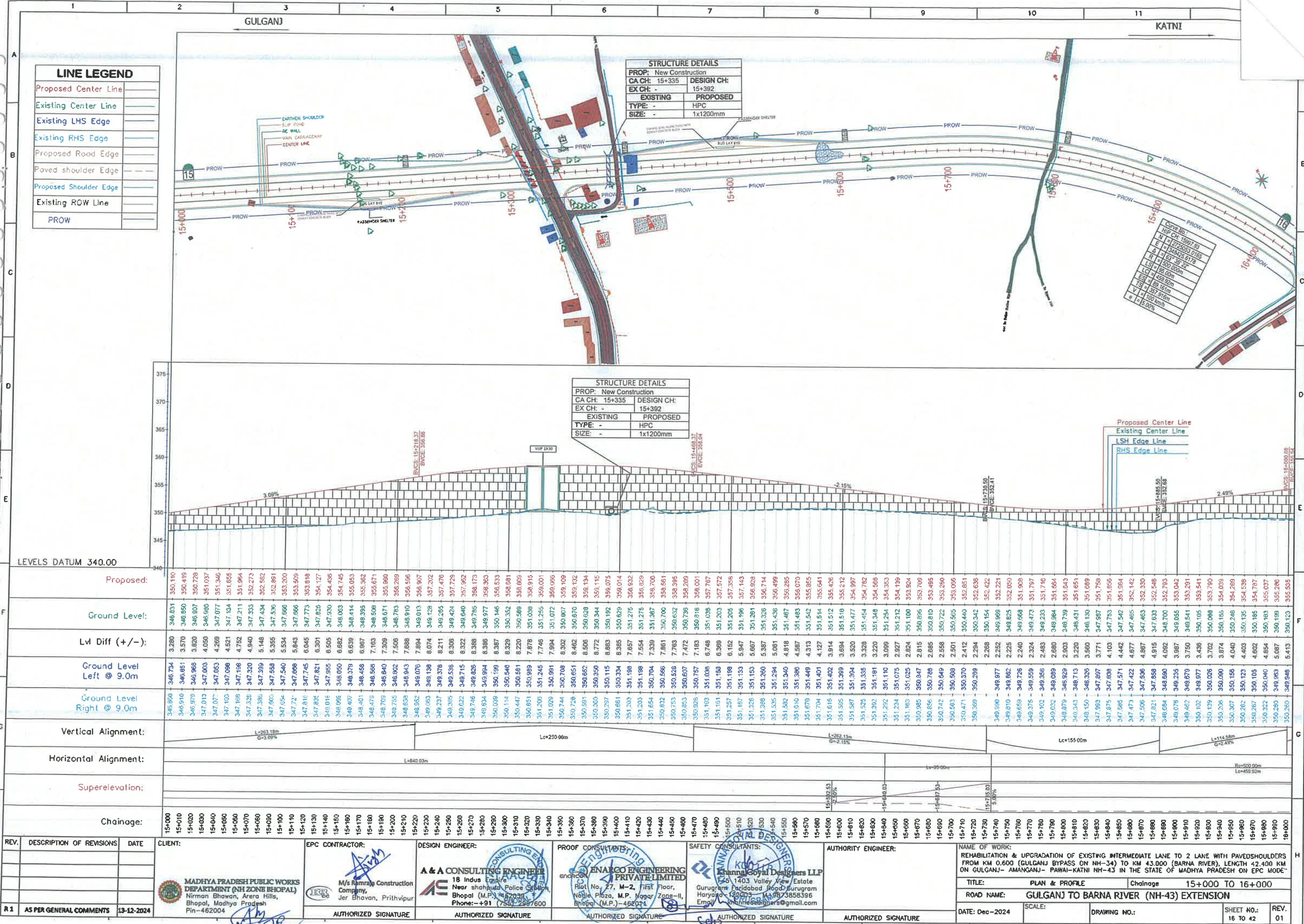


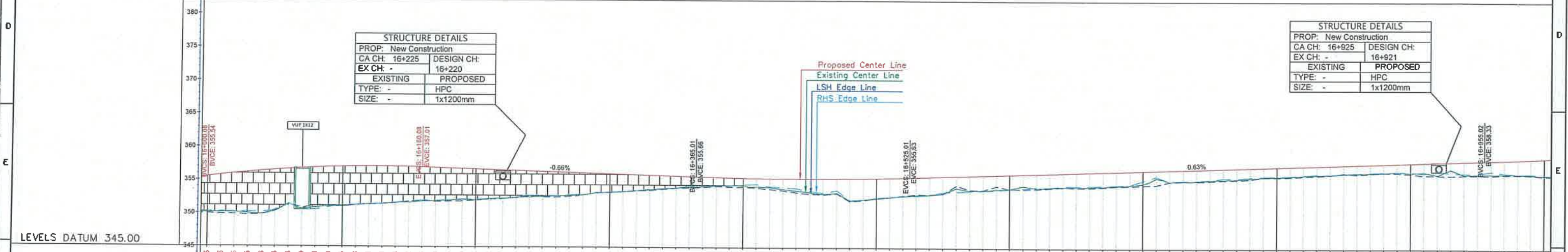
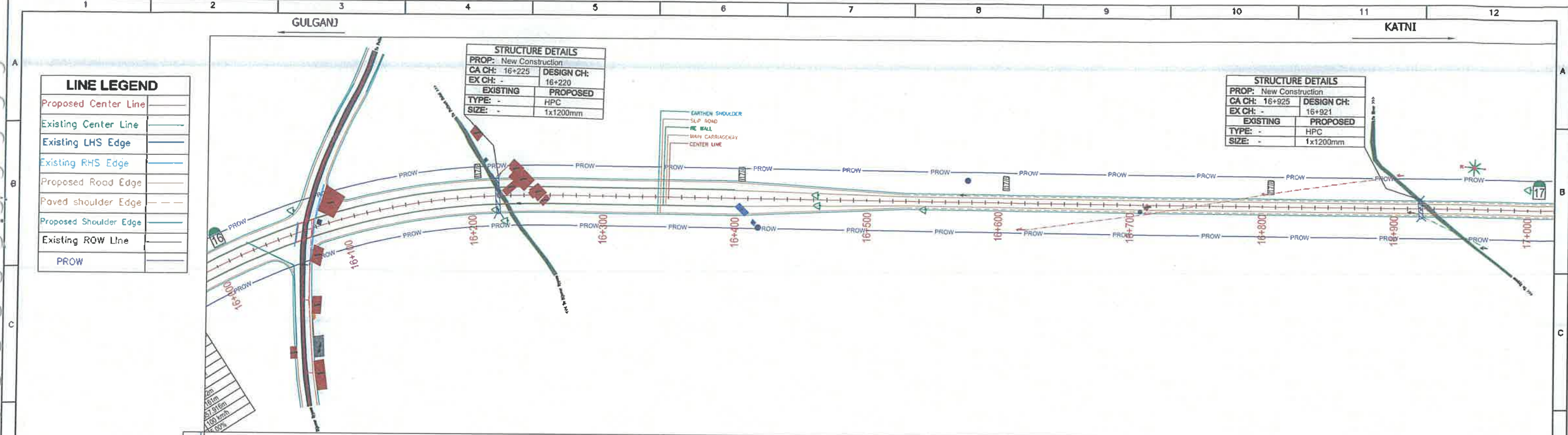
LEVELS DATUM 334.00	Proposed:	Ground Level:	Lm Diff (+/-):	Ground Level Left @ 9.0m	Ground Level Right @ 9.0m
14+000	343.522	343.522	5.271	343.525	343.525
14+010	343.624	343.624	5.135	343.624	343.624
14+020	343.724	343.724	5.003	343.724	343.724
14+030	343.824	343.824	4.888	343.824	343.824
14+040	343.924	343.924	4.784	343.924	343.924
14+050	344.024	344.024	4.683	344.024	344.024
14+060	344.124	344.124	4.583	344.124	344.124
14+070	344.224	344.224	4.483	344.224	344.224
14+080	344.324	344.324	4.383	344.324	344.324
14+090	344.424	344.424	4.283	344.424	344.424
14+100	344.524	344.524	4.183	344.524	344.524
14+110	344.624	344.624	4.083	344.624	344.624
14+120	344.724	344.724	3.983	344.724	344.724
14+130	344.824	344.824	3.883	344.824	344.824
14+140	344.924	344.924	3.783	344.924	344.924
14+150	345.024	345.024	3.683	345.024	345.024
14+160	345.124	345.124	3.583	345.124	345.124
14+170	345.224	345.224	3.483	345.224	345.224
14+180	345.324	345.324	3.383	345.324	345.324
14+190	345.424	345.424	3.283	345.424	345.424
14+200	345.524	345.524	3.183	345.524	345.524
14+210	345.624	345.624	3.083	345.624	345.624
14+220	345.724	345.724	2.983	345.724	345.724
14+230	345.824	345.824	2.883	345.824	345.824
14+240	345.924	345.924	2.783	345.924	345.924
14+250	346.024	346.024	2.683	346.024	346.024
14+260	346.124	346.124	2.583	346.124	346.124
14+270	346.224	346.224	2.483	346.224	346.224
14+280	346.324	346.324	2.383	346.324	346.324
14+290	346.424	346.424	2.283	346.424	346.424
14+300	346.524	346.524	2.183	346.524	346.524
14+310	346.624	346.624	2.083	346.624	346.624
14+320	346.724	346.724	1.983	346.724	346.724
14+330	346.824	346.824	1.883	346.824	346.824
14+340	346.924	346.924	1.783	346.924	346.924
14+350	347.024	347.024	1.683	347.024	347.024
14+360	347.124	347.124	1.583	347.124	347.124
14+370	347.224	347.224	1.483	347.224	347.224
14+380	347.324	347.324	1.383	347.324	347.324
14+390	347.424	347.424	1.283	347.424	347.424
14+400	347.524	347.524	1.183	347.524	347.524
14+410	347.624	347.624	1.083	347.624	347.624
14+420	347.724	347.724	0.983	347.724	347.724
14+430	347.824	347.824	0.883	347.824	347.824
14+440	347.924	347.924	0.783	347.924	347.924
14+450	348.024	348.024	0.683	348.024	348.024
14+460	348.124	348.124	0.583	348.124	348.124
14+470	348.224	348.224	0.483	348.224	348.224
14+480	348.324	348.324	0.383	348.324	348.324
14+490	348.424	348.424	0.283	348.424	348.424
14+500	348.524	348.524	0.183	348.524	348.524
14+510	348.624	348.624	0.083	348.624	348.624
14+520	348.724	348.724	0.000	348.724	348.724
14+530	348.824	348.824	0.000	348.824	348.824
14+540	348.924	348.924	0.000	348.924	348.924
14+550	349.024	349.024	0.000	349.024	349.024
14+560	349.124	349.124	0.000	349.124	349.124
14+570	349.224	349.224	0.000	349.224	349.224
14+580	349.324	349.324	0.000	349.324	349.324
14+590	349.424	349.424	0.000	349.424	349.424
14+600	349.524	349.524	0.000	349.524	349.524
14+610	349.624	349.624	0.000	349.624	349.624
14+620	349.724	349.724	0.000	349.724	349.724
14+630	349.824	349.824	0.000	349.824	349.824
14+640	349.924	349.924	0.000	349.924	349.924
14+650	350.024	350.024	0.000	350.024	350.024
14+660	350.124	350.124	0.000	350.124	350.124
14+670	350.224	350.224	0.000	350.224	350.224
14+680	350.324	350.324	0.000	350.324	350.324
14+690	350.424	350.424	0.000	350.424	350.424
14+700	350.524	350.524	0.000	350.524	350.524
14+710	350.624	350.624	0.000	350.624	350.624
14+720	350.724	350.724	0.000	350.724	350.724
14+730	350.824	350.824	0.000	350.824	350.824
14+740	350.924	350.924	0.000	350.924	350.924
14+750	351.024	351.024	0.000	351.024	351.024
14+760	351.124	351.124	0.000	351.124	351.124
14+770	351.224	351.224	0.000	351.224	351.224
14+780	351.324	351.324	0.000	351.324	351.324
14+790	351.424	351.424	0.000	351.424	351.424
14+800	351.524	351.524	0.000	351.524	351.524
14+810	351.624	351.624	0.000	351.624	351.624
14+820	351.724	351.724	0.000	351.724	351.724
14+830	351.824	351.824	0.000	351.824	351.824
14+840	351.924	351.924	0.000	351.924	351.924
14+850	352.024	352.024	0.000	352.024	352.024
14+860	352.124	352.124	0.000	352.124	352.124
14+870	352.224	352.224	0.000	352.224	352.224
14+880	352.324	352.324	0.000	352.324	352.324
14+890	352.424	352.424	0.000	352.424	352.424
14+900	352.524	352.524	0.000	352.524	352.524
14+910	352.624	352.624	0.000	352.624	352.624
14+920	352.724	352.724	0.000	352.724	352.724
14+930	352.824	352.824	0.000	352.824	352.824
14+940	352.924	352.924	0.000	352.924	352.924
14+950	353.024	353.024	0.000	353.024	353.024
14+960	353.124	353.124	0.000	353.124	353.124
14+970	353.224	353.224	0.000	353.224	353.224
14+980	353.324	353.324	0.000	353.324	353.324
14+990	353.424	353.424	0.000	353.424	353.424
15+000	353.524	353.524	0.000	353.524	353.524

REV.	DESCRIPTION OF REVISIONS	DATE
R1	AS PER GENERAL COMMENTS	23-12-2024

CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:
MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/S. Ramraja Construction Company, Jee Bhawan, Prithvipur	A & A CONSULTING ENGINEERS 18 Indus Empire Near shohpura Police Station, Bhopal (M.P.)-462035 Phone:-+91 (755) 2997600	ENARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Mobile Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	Channel Royal Designers LLP 135 1401 Valley View Estate Gurgaon Road, Gurgaon Haryana-122003 M-9873458395 Email:-info@channelroyal.com	
	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE

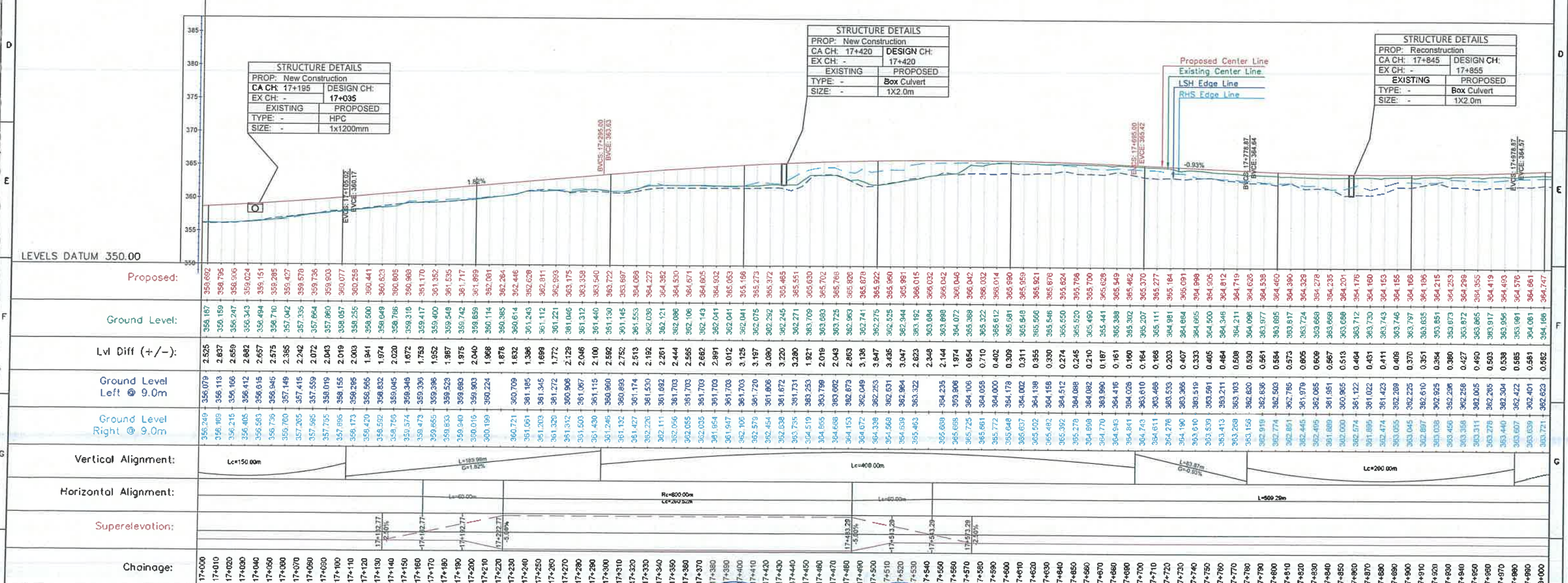
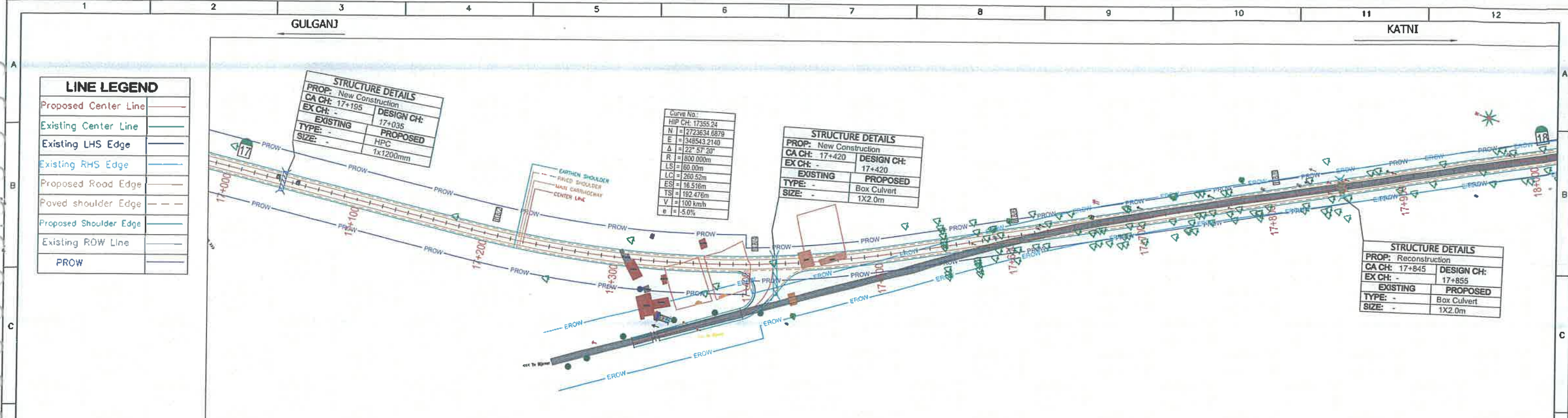
NAME OF WORK:	REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANI- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
TITLE:	PLAN & PROFILE
ROAD NAME:	GULGANJ TO BARNA RIVER (NH-43) EXTENSION
DATE:	Dec 2024
SCALE:	
DRAWING NO.:	
SHEET NO.:	15 TO 42
REV.	01





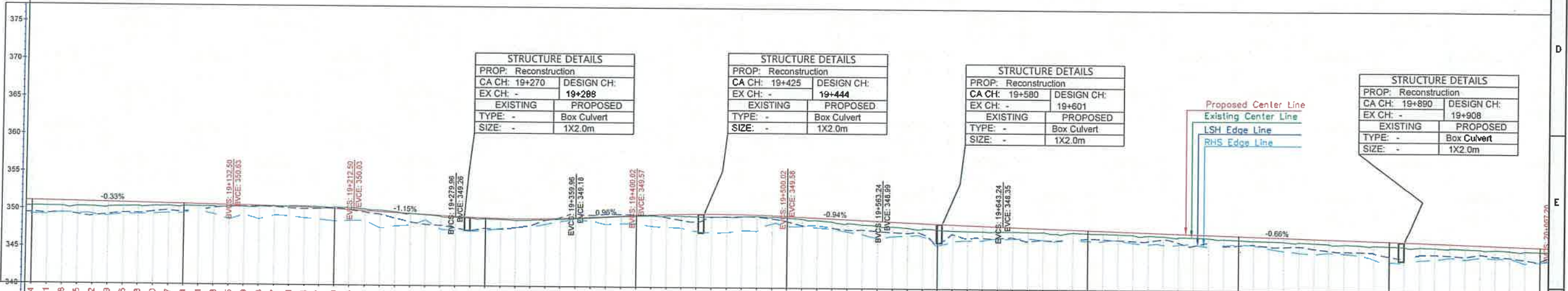
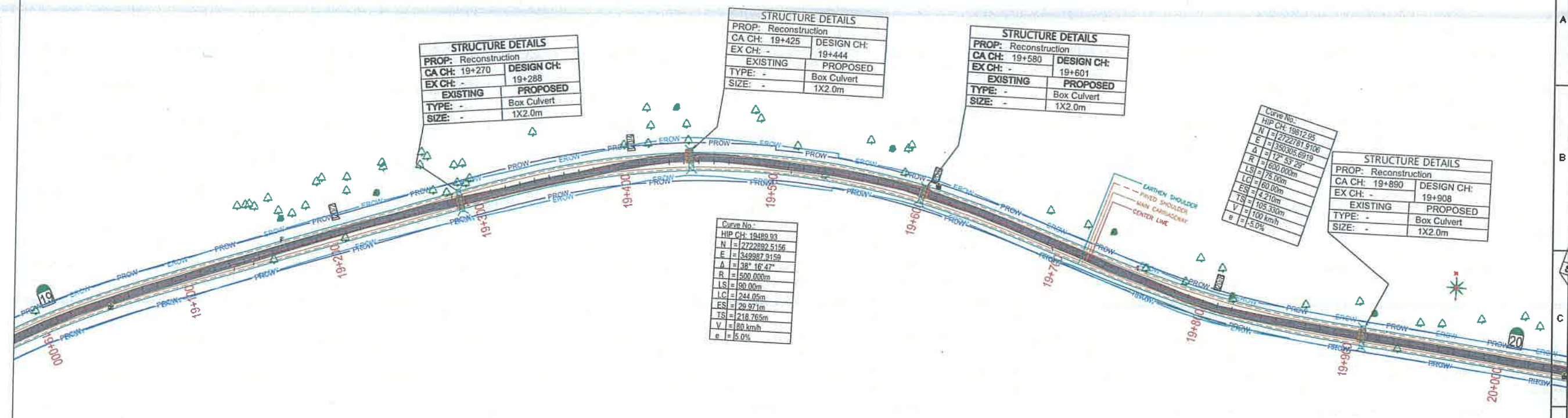
REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROFESSIONAL CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R 1	AS PER GENERAL COMMENTS	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/s Ramraja Construction Company Jer Bhawan, Prithvipur	A & A CONSULTING ENGINEERS 18 Indus Enclave Near shohubada Police Station Bhopal (M.P.)-462035 Phone:-+91 (755) 2987600	ENARGO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462031	Khanna Royal Designers LLP 1483 Valley View Estate Gurgaon, Faridabad Road Gurgaon Haryana-122003 M-9873558395 Email:-khannaroyaldesigners@gmail.com		REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.000 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ- AMANGANI- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		TITLE: PLAN & PROFILE
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		ROAD NAME: GULGANJ TO BARNIA RIVER (NH-43) EXTENSION
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		DATE: Dec-2024
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		SCALE:
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		DRAWING NO.:
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		SHEET NO.:
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		REV. 01

			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
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			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE	



REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R1	AS PER GENERAL COMMENTS	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/s. Nirman Construction Company, Jer Bhawan, Prithvipur	A & A CONSULTING ENGINEERS 18 Indus Empire Near Shahpura Police Station, Bhopal (M.P.)-462033, Phone:-+91 (755) 2597600	ENAPCO ENGINEERING PRIVATE LIMITED E-10, No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	Khanna Goyal Designers LLP 15, 1003 Valley View Estate Gurgaon, Faridabad Road, Gurugram Haryana-122003, M-9873858396 Email: khannagoyaldesigners@gmail.com		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		TITLE: PLAN & PROFILE
									ROAD NAME: GULGANJ TO BARNIA RIVER (NH-43) EXTENSION
									DATE: Dec-2024
									SCALE:
									DRAWING NO.:
									SHEET NO.:
									REV. 01

LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	



Chainage:	Superelevation:	Horizontal Alignment:	Vertical Alignment:	Ground Level Right @ 9.0m	Ground Level Left @ 9.0m	Lvl Diff (+/-):	Ground Level:	Proposed:
9+000				349.209	349.468	0.705	350.359	351.060
9+010				349.218	349.354	0.695	350.337	351.030
9+020				349.462	349.479	0.698	350.330	350.999
9+030				349.342	349.247	0.686	350.329	350.960
9+040				349.301	349.070	0.630	350.302	350.930
9+050				349.109	349.293	0.591	350.309	350.890
9+060				349.325	349.500	0.519	350.347	350.960
9+070				349.315	349.477	0.466	350.387	350.830
9+080				349.410	349.660	0.378	350.422	350.600
9+090				349.493	349.691	0.321	350.445	350.760
9+100				349.569	349.732	0.260	350.454	350.730
9+110						0.287	350.433	350.700
9+120				349.372	350.257	0.248	350.420	350.660
9+130				348.717	350.413	0.244	350.391	350.630
9+140				349.323	350.423	0.199	350.400	350.590
9+150				348.717	350.458	0.117	350.436	350.553
9+160				348.250	350.389	0.036	350.481	350.481
9+170				349.140	350.233	-0.067	350.498	350.437
9+180				348.507	350.137	-0.132	350.486	350.354
9+190				348.723	350.183	-0.141	350.408	350.267
9+200				348.907	350.323	-0.201	350.372	350.170
9+210				348.604	349.737	-0.232	350.295	350.063
9+220				347.002	348.463	-0.172	350.005	349.833
9+230				347.604	349.914	-0.099	349.817	349.718
9+240				349.047	348.468	-0.010	349.814	349.603
9+250				349.732	348.147	0.050	349.439	349.498
9+260				347.529	348.047	0.092	348.282	349.374
9+270				347.403	347.719	0.107	348.152	348.259
9+280				347.308	347.399	0.111	349.046	349.157
9+290				347.413	347.693	0.120	348.962	349.082
9+300				347.698	347.626	0.122	348.911	349.033
9+310				347.643	347.785	0.211	348.799	349.010
9+320				347.947	348.097	0.171	348.943	349.014
9+330				348.313	348.840	0.130	348.914	349.044
9+340				348.691	349.225	0.108	348.993	349.101
9+350						0.090	349.104	349.184
9+360				348.732	349.547	0.078	349.202	349.280
9+370				348.308	348.682	0.074	349.302	349.376
9+380				348.446	349.687	0.075	349.397	349.472
9+390				348.435	349.642	0.036	349.472	349.568
9+400				348.119	349.550	0.122	349.533	349.655
9+410				347.895	348.964	0.258	349.513	349.771
9+420				347.464	348.784	0.368	349.433	349.601
9+430				347.331	349.401	0.380	349.432	349.611
9+440				347.362	349.158	0.390	349.414	348.803
9+450				347.568	349.500	0.323	349.452	349.776
9+460				347.542	349.457	0.190	349.539	349.729
9+470				348.540	349.220	0.187	349.478	349.664
9+480				348.198	348.981	0.223	349.357	349.590
9+490				348.259	348.372	0.278	349.207	349.496
9+500				348.068	348.324	0.340	349.052	348.392
9+510				347.936	348.047	0.414	348.985	348.298
9+520				347.550	347.814	0.498	348.707	348.205
9+530				347.205	347.819	0.620	348.481	349.111
9+540				346.751	347.683	0.620	348.397	349.017
9+550				345.985	347.544	0.649	348.275	348.924
9+560				347.002	347.448	0.710	348.124	348.834
9+570				345.981	347.329	0.758	348.040	348.748
9+580				345.847	346.670	0.700	347.909	348.665
9+590				346.401	347.328	0.604	347.782	348.586
9+600				346.495	346.777	0.788	347.742	348.510
9+610				346.550	346.838	0.698	347.739	348.438
9+620				346.756	346.898	0.645	347.724	348.369
9+630				346.765	346.938	0.593	347.719	348.303
9+640				346.651	346.455	0.555	347.682	348.237
9+650				346.536	346.591	0.498	347.673	348.171
9+660				346.514	346.590	0.616	347.690	348.105
9+670						0.414	347.625	348.039
9+680				346.561	346.871	0.419	347.554	347.973
9+690				346.539	346.796	0.392	347.516	347.907
9+700				346.619	346.670	0.377	347.465	347.841
9+710				346.323	346.578	0.391	347.385	347.775
9+720				346.148	346.564	0.415	347.294	347.709
9+730				346.088	346.796	0.431	347.212	347.643
9+740				346.112	346.371	0.450	347.128	347.578
9+750				346.159	345.993	0.439	347.073	347.512
9+760						0.437	347.009	347.446
9+770				346.036	345.978	0.507	346.873	347.380
9+780				346.198	346.072	0.530	346.784	347.314
9+790				346.118	346.200	0.556	346.682	347.248
9+800				345.680	345.932	0.550	346.631	347.182
9+810				345.347	345.871	0.546	346.569	347.115
9+820				345.146	345.924	0.571	346.503	347.050
9+830				344.904	345.648	0.547	346.413	346.984
9+840				345.145	345.418	0.603	346.316	346.918
9+850				345.044	345.283	0.813	346.239	346.852
9+860				344.936	345.257	0.811	346.175	346.786
9+870				344.925	345.095	0.824	346.097	346.720
9+880				344.328	344.673	0.629	346.026	346.654
9+890						0.623	345.985	346.589
9+900				344.216	344.880	0.634	345.886	346.522
9+910				344.298	344.950	0.621	345.835	346.458
9+920				344.594	344.851	0.593	345.798	346.391
9+930				344.361	344.894	0.594	345.730	346.325
9+940				344.641	345.012	0.590	345.673	346.259
9+950				344.497	344.751	0.568	345.627	346.193
9+960				344.581	344.614	0.986	345.539	346.127
9+970				343.992	344.351	0.587	345.474	346.061
9+980						0.579	345.415	345.995
9+990				344.064	344.190			

LINE LEGEND	
Proposed Center Line	
Existing Center Line	
Existing LHS Edge	
Existing RHS Edge	
Proposed Road Edge	
Paved shoulder Edge	
Proposed Shoulder Edge	
Existing ROW Line	
PROW	

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+079
CA CH: 20+060	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+337
CA CH: 20+315	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+540
CA CH: 20+525	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+739
CA CH: 20+700	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

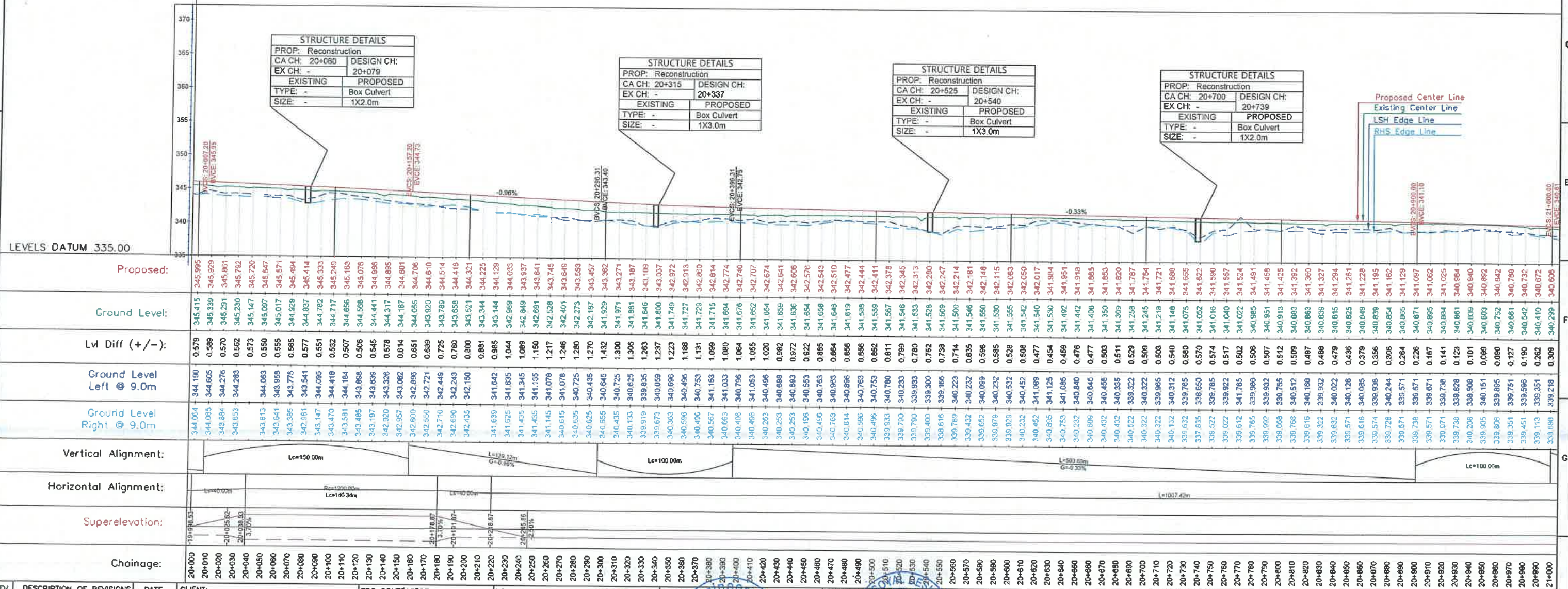
Curve No.:	
HIP CH: 20+06.57	
N = 2722749.3892	
E = 350600.4718	
A = 8° 36' 36"	
R = 1200.000m	
LS = 40.00m	
LC = 140.34m	
ES = 3.451m	
TS = 110.344m	
V = 100 km/h	
e = 3.70%	

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+079
CA CH: 20+060	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X2.0m

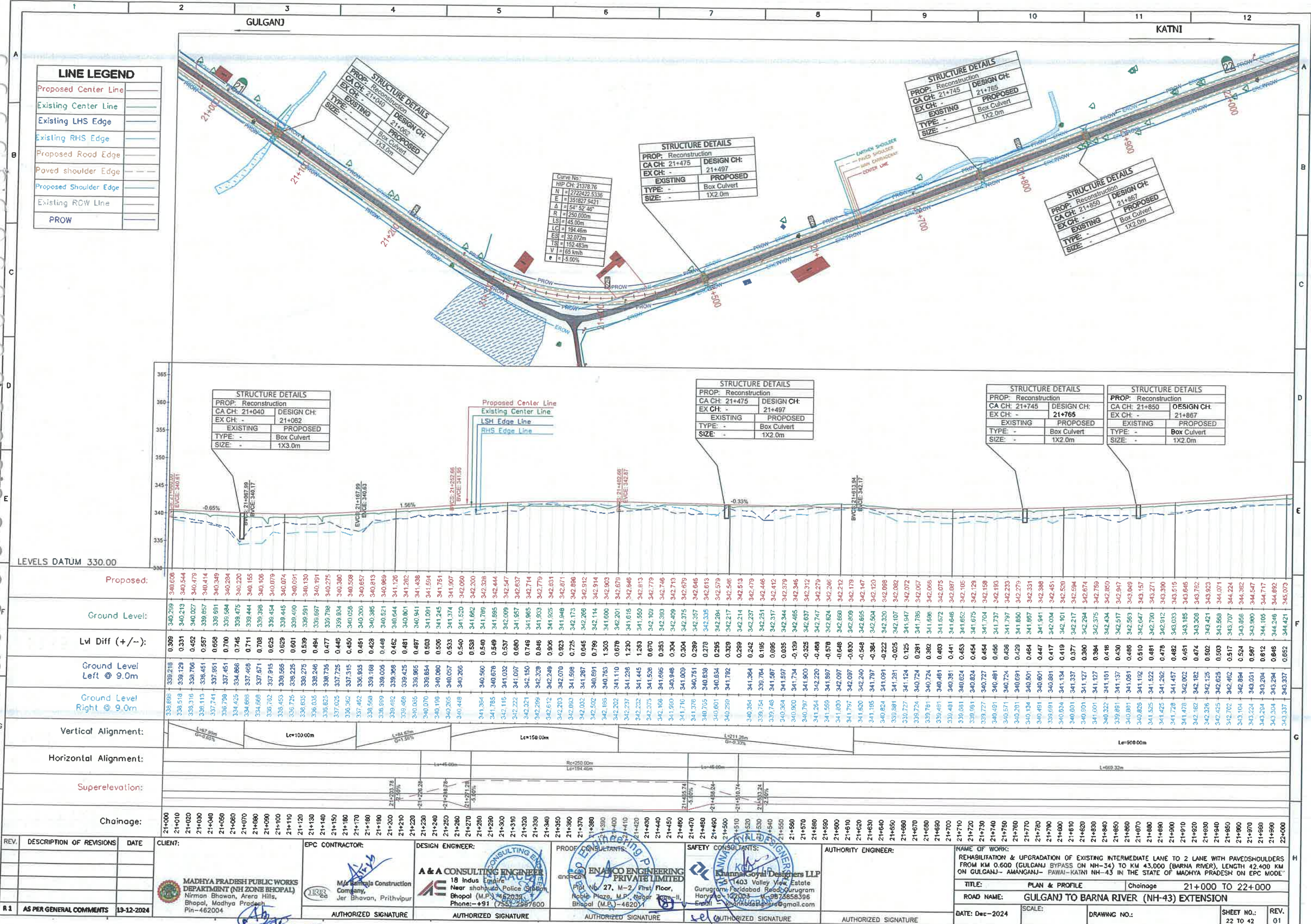
STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+337
CA CH: 20+315	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

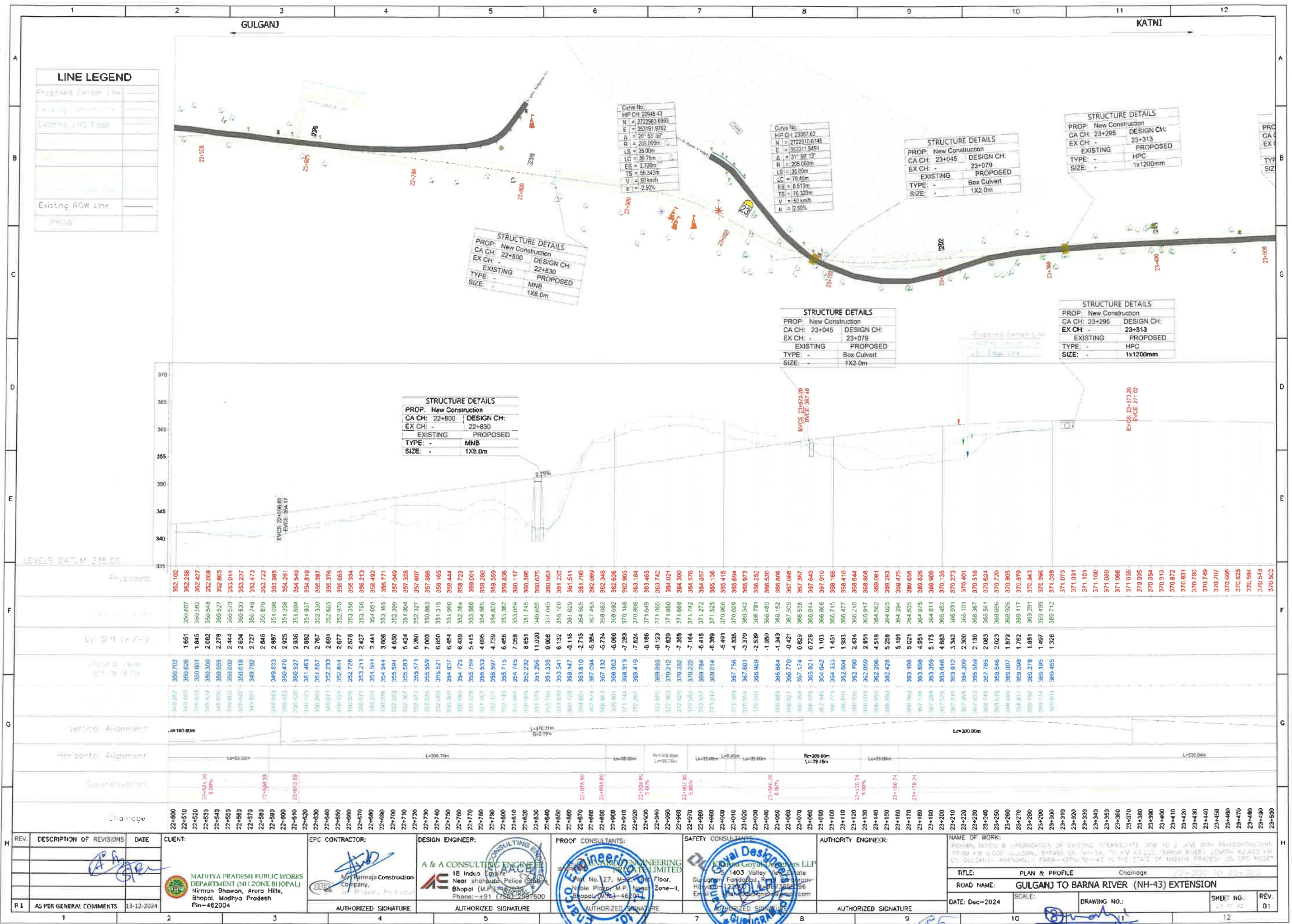
STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+540
CA CH: 20+525	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 20+739
CA CH: 20+700	EX CH: -
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X2.0m



REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROF. CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:
R1	AS PER GENERAL COMMENTS	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/S Ramraja Construction Company, Jer Bhawan, Prithvipur	A & A CONSULTING ENGINEERS 18 Indus Empire Near shahpura Police Station Bhopal (M.P.)-462033 Phone: +91 (755) 2887600	ENARCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.)-462011	Shantika Goyal Designers LLP E-5 1403 Valley View Estate Gurgaon Faridabad Road Gurgaon Haryana-122003 Phone: +91 9873858396 Email: shantika@shantikaengineers.com		REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
			AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		AUTHORIZED SIGNATURE		TITLE: PLAN & PROFILE
									ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION
									DATE: Dec-2024
									SCALE:
									DRAWING NO.:
									SHEET NO.:
									REV. 01





H	REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROOF CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:	H												
				 MADHYA PRADESH PUBLIC WORKS DEPARTMENT (N I I ZONE B/JOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	 M/s Aniraj Construction Company, Bhopal (M.P.) Pin-462025 Phone: +91 (755) 2987600	 A & A CONSULTING ENGINEERS 18 Indus Enclave Near Shahpura Police Station, Bhopal (M.P.) Pin-462025 Phone: +91 (755) 2987600	 ANIRAJ ENGINEERING CONSULTANTS PVT. LIMITED Plot No. 27, M-2, 1st Floor, Noble Plaza, M.P. Nagar Zone-II, Bhopal (M.P.) Pin-462011	 K. D. Goyal Designers LLP 1403 Valley View Estate Gurgaon, Haryana, India Pin-122009 Phone: +91 9673855396 Email: kdgoyal@gmail.com		REPAIR, MAINTENANCE & UPGRADE OF EXISTING INTERMEDIATE JUNE 10.2 LANE WITH PARALLEL DRIVEWAY FROM KM 0.000 (GULGANJ) BYPASS ON NH-34 TO KM 43.122 (BARNIA RIVER) LENGTH 43.122 KM ON GULGANJ-BARNIA RIVER, PARALLEL TO NH-34 IN THE STATE OF MADHYA PRADESH, INDIA. EPC MODE													
R 1	AS PER GENERAL COMMENTS	13-12-2024																					
1		2		3		4		5		6		7		8		9		10		11		12	

STRUCTURE DETAILS

PROP: New Construction	
CA CH: 22+350	DESIGN CH: 22+350
EX CH: -	-
EXISTING	PROPOSED
TYPE: -	Box Culvert
SIZE: -	1X3.0m

CURVE DATA

Curve No:	22+72.15
HIP CH:	22+72.15
N.I.	2723.105 847.1
E	352643.2859
A	56° 23' 13"
R	400.000m
L.S.	65.00m
P.C.	238.66m
L.Q.	54.203m
F.S.	242.08m
T.S.	80.10m

STRUCTURE DETAILS

PROP: New Construction	
CA CH:	-

Curve No.: 22422 15
 HPI CH: 22422 15
 N = 2773105.9471
 E = 352643.2889
 A = 56° 23' 13"
 R = 400.000m
 L = 55.000m
 LG = 338.203m
 ES = 242.085m
 TS = 80.000m
 V = 15.00%

STRUCTURE DETAILS	
PROP:	New Construction
CA CH:	22+800
EX CH:	22+800
EXISTING:	22+800
DESIGN CH:	22+800

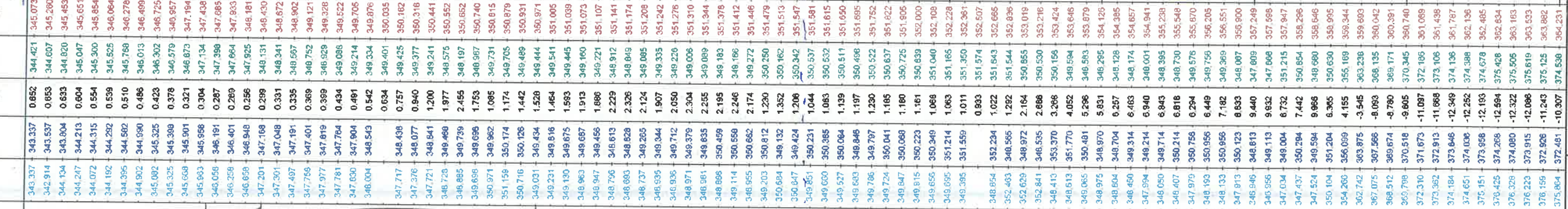
EXISTING	22+843
TYPE: -	PROPOSED
SIZE: -	MNB
	1X8.0m

STRUCTURE DETAILS	
PROP: New Construction	
CA CH: 22+800	DESIGN CH: 22+843
EX CH: -	
EXISTING	PROPOSED

Profile view of the proposed road alignment. The horizontal axis represents stationing, and the vertical axis represents elevation. The profile shows a road with a 0.34% grade followed by a 3.49% grade. Key vertical curve data points are labeled:

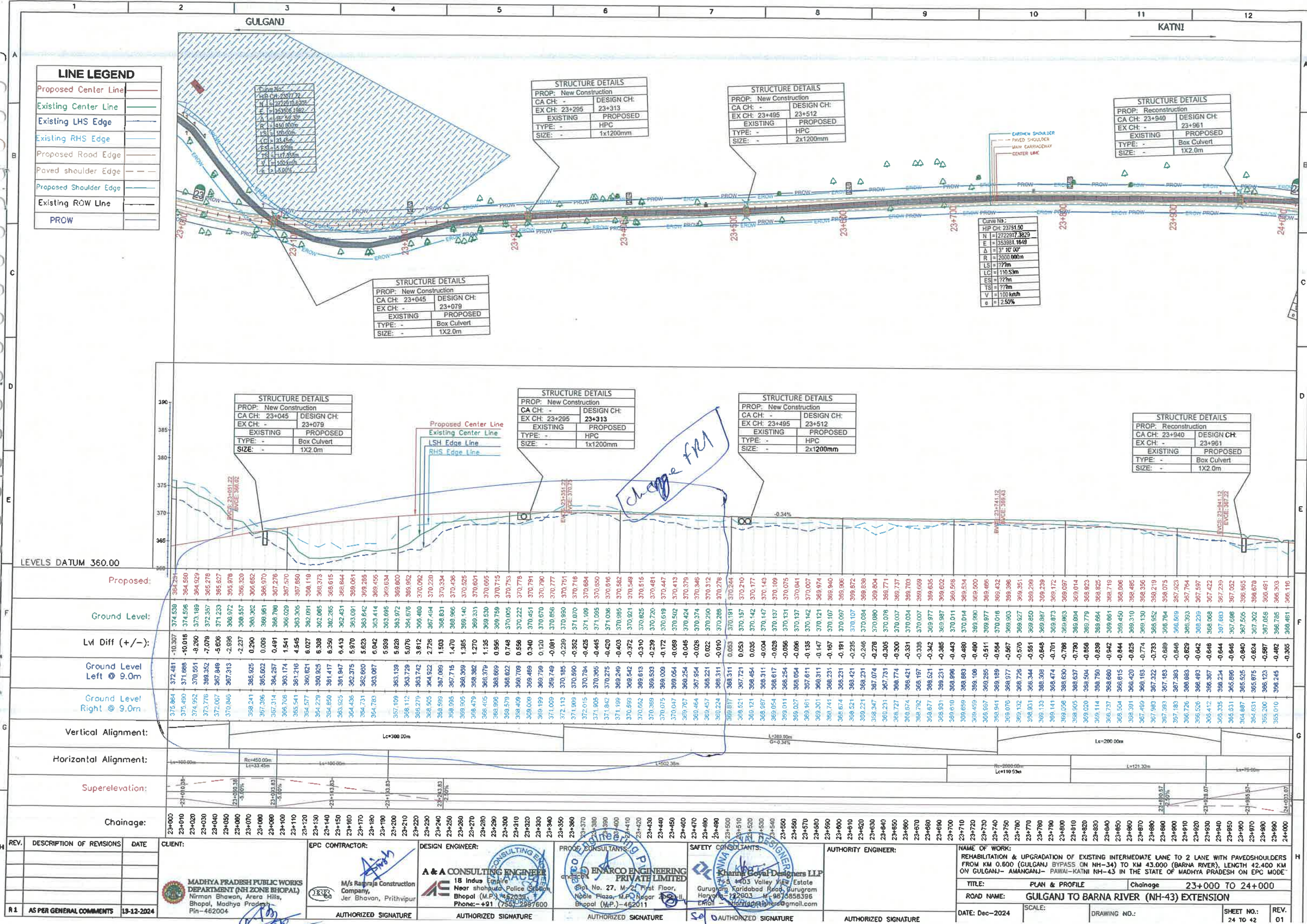
- BVC: 22+330.17, EVC: 340.67
- BVC: 22+526.34, EVC: 351.64
- BVC: 22+776.94, EVC: 356.42

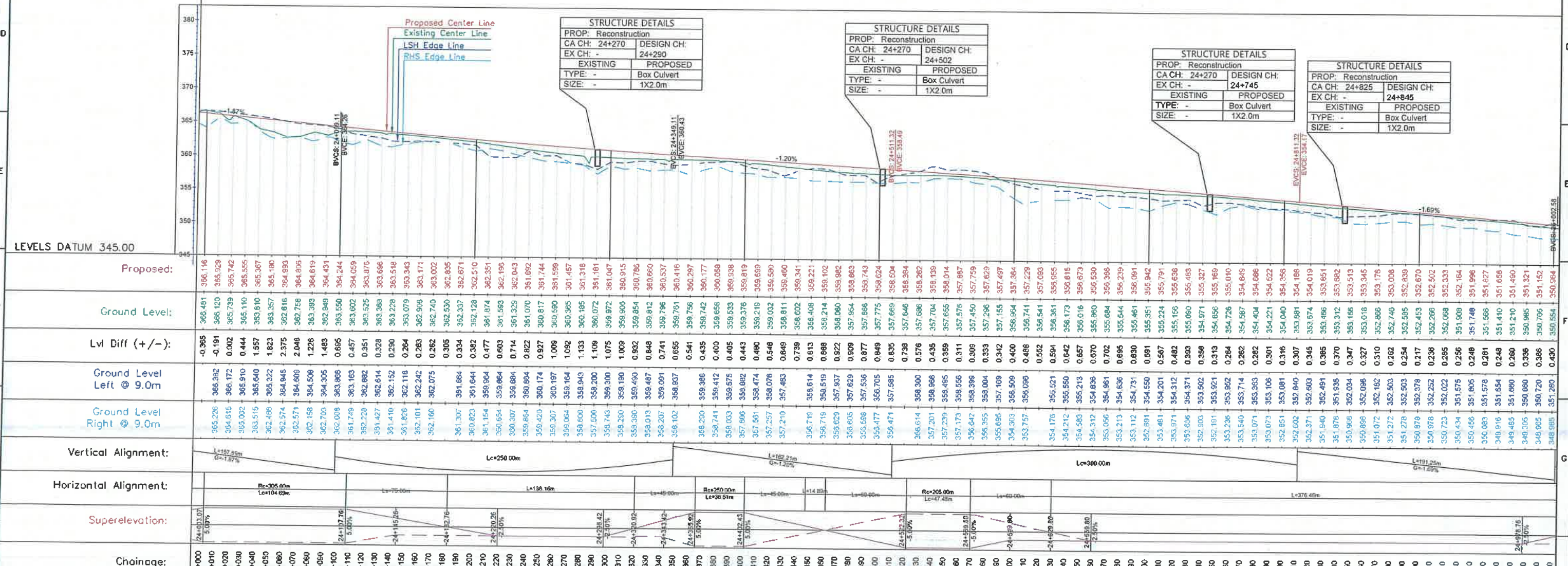
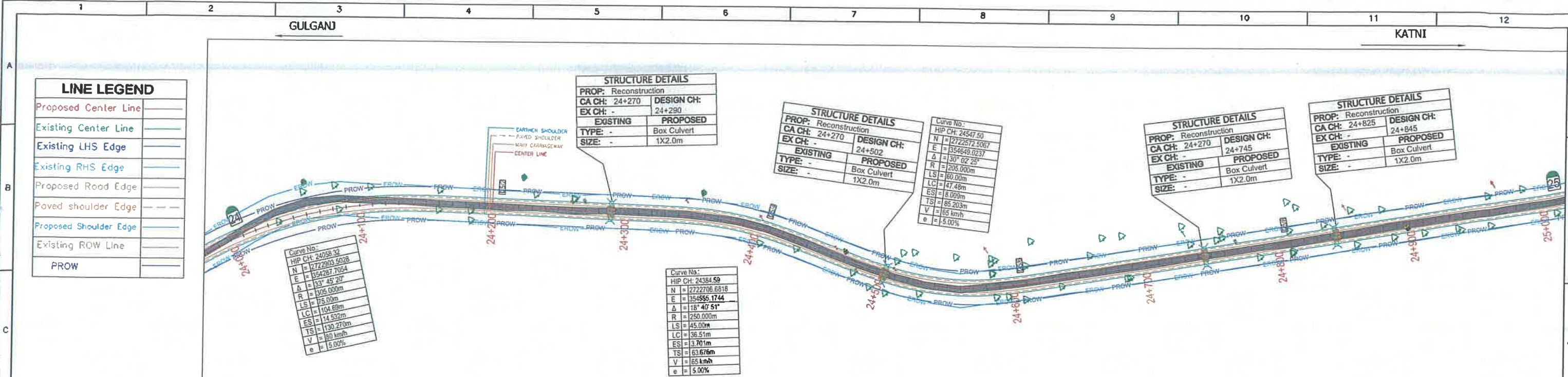
The profile also shows the existing ground line and the proposed road grade line. A vertical curve is shown between the first and second BVC points, and another between the second and third BVC points. The road crosses a water body (river or stream) between the second and third BVC points.



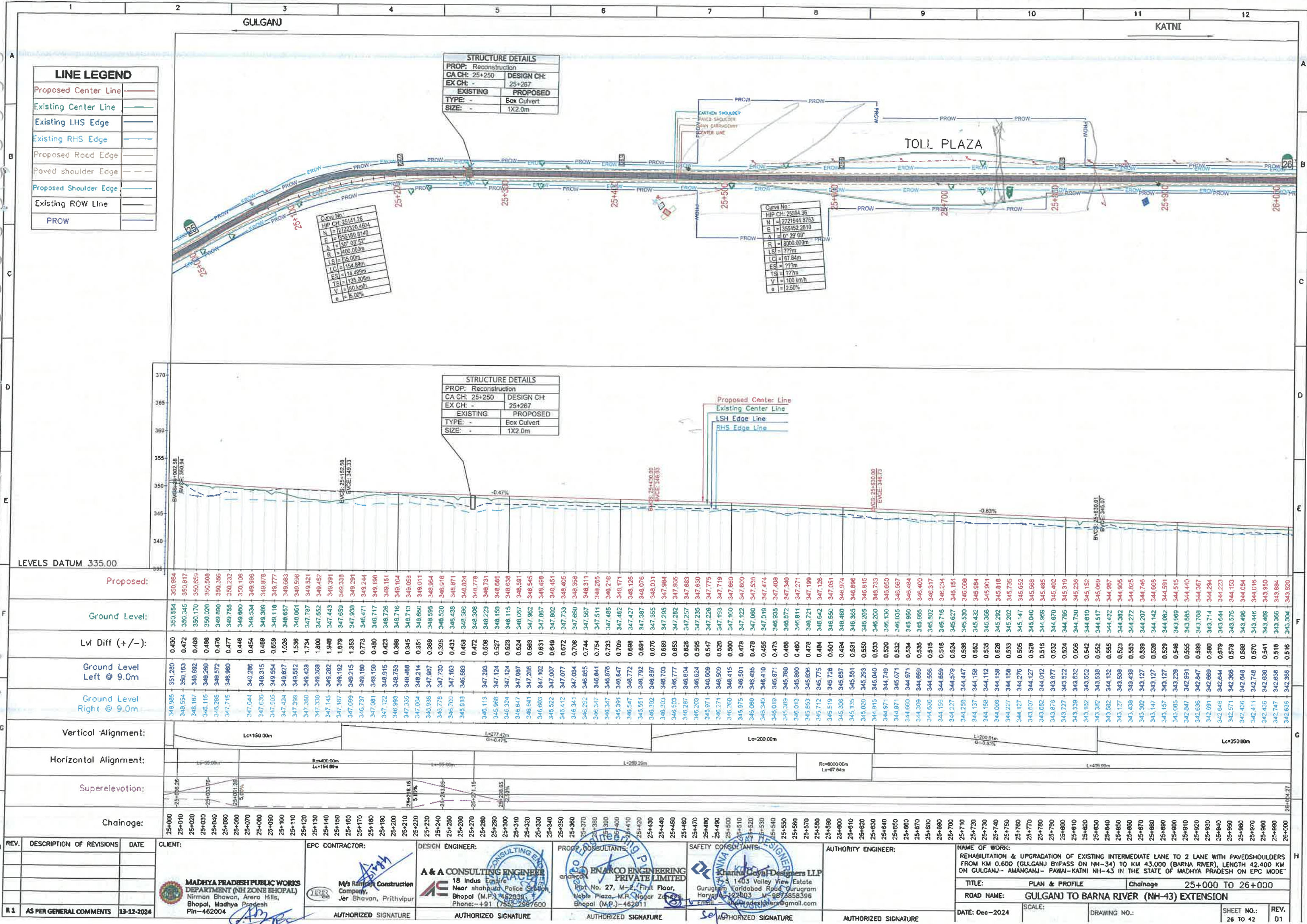
 MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	CLIENT:	EPC CONTRACTOR: <i>(Signature)</i> M/s Ramraja Construction Company, Jer Bhawan, Prithvipur	DESIGN ENGINEER: <i>(Stamp: A & A CONSULTING ENGINEERS)</i> A & A CONSULTING ENGINEER 18 Indus Empire Near shahpura Police Station, Bhopal (M.P.)-462038 Phone: +91 (755) 2897600	PROFESSIONAL CONSULTANTS: <i>(Stamp: ENARCO ENGINEERING PRIVATE LIMITED)</i> ENARCO ENGINEERING PRIVATE LIMITED Plot No./27, M-2, First Floor, Noble Plaza, M.P., Nagar Khand, Bhopal (M.P.)-462011	SAFETY CONSULTANTS: <i>(Stamp: Kanna Goyal Designers LLP)</i> Kanna Goyal Designers LLP 1-B 1403 Valley View Estate Gurgaon Faridabad Road Gurgaon Haryana-122003 M-9873858396 Email - kanna@kannagoyal.com	AUTHORITY ENGINEER:	NAME OF WORK: REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER). LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE
		AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE	TITLE: PLAN & PROFILE Chainage 22+000 TO 23+000
		ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION	DATE: Dec-2024	SCALE:	DRAWING NO.:	SHEET NO.: 23 TO 42	REV. 01

CLIENT:  MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	EPC CONTRACTOR:  M/s Ramnara Construction Company, Jer Bhavan, Prithvipur AUTHORIZED SIGNATURE	DESIGN ENGINEER:  A & A CONSULTING ENGINEERS 18 Indus Empire Near Shampura Police Station Bhopal (M.P.)-462035 Phone:-+91 (755) 2997600 AUTHORIZED SIGNATURE	PROJECT CONSULTANTS:  ENAMCO ENGINEERING PRIVATE LIMITED GOSWAMI Plot No./27, M-2, First Floor, Noble Plaza, M.P. Nagar, Indus III, Bhopal (M.P.)-462041 AUTHORIZED SIGNATURE	SAFETY CONSULTANTS:  Khanna Goyal Designers LLP F-5 1403 Valley View Estate Gurugram Faridabad Road Gurugram Haryana-122003 M-9873585396 Email:-khanna.goyaldesigners@gmail.com AUTHORIZED SIGNATURE	AUTHORITY ENGINEER: AUTHORIZED SIGNATURE	NAME OF WORK: REHABILITATION & UPGRADATION OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER). LENGTH 42.400 KM ON GULGANJ- AMANGANJ- PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE. TITLE: PLAN & PROFILE Chainage 22+000 TO 23+000 ROAD NAME: GULGANJ TO BARNA RIVER (NH-43) EXTENSION DATE: Dec-2024 SCALE: DRAWING NO.: SHEET NO.: 23 TO 42 REV. 01
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REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROF. CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:	TITLE:	ROAD NAME:	DATE:	SCALE:	DRAWING NO.:	SHEET NO.:	REV.
R1	AS PER GENERAL COMMENTS	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL) Nirman Bhawan, Arera Hills, Bhopal, Madhya Pradesh Pin-462004	M/s Ramraaj Construction Company, Jer Bhawan, Prithipur	A & A CONSULTING ENGINEER 18 Indus Enclave Near shohkhuda Police Station Bhopal (M.P.)-462039 Phone: +91 (755) 2997600	ENAMCO ENGINEERING PRIVATE LIMITED Plot No. 27, M-2, First Floor, Noble Plaza, M.P. Nagar Bhopal (M.P.)-462031	Shri. Gopal Designers LLP 1403 Valley View Estate Gurgaon, Faridabad Road Gurgaon Haryana-122093 Phone: +91 9673858396 Email: shri.gopal.designers@gmail.com		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNIA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE	PLAN & PROFILE	GULGANJ TO BARNIA RIVER (NH-43) EXTENSION	Dec-2024			25 TO 42	01



LINE LEGEND	
Proposed Center Line	—
Existing Center Line	—
Existing LHS Edge	—
Existing RHS Edge	—
Proposed Road Edge	—
Paved shoulder Edge	—
Proposed Shoulder Edge	—
Existing ROW Line	—
PROW	—

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 25+267
CA CH: 25+250	EX CH: -
TYPE: -	Box Culvert
SIZE: -	1X2.0m

Curve No. 1	
HIP CH: 25+141.26	N = 2722320.4604
E = 355189.8140	A = 30° 03' 52"
R = 1400.000m	LS = 154.89m
LC = 14.400m	ES = 14.400m
TS = 135.000m	V = 80 km/h
e = 5.00%	

Curve No. 2	
HIP CH: 25594.36	N = 2721944.8753
E = 355452.2810	A = 0° 29' 09"
R = 8000.000m	LS = 777m
LC = 67.84m	ES = 777m
TS = 777m	V = 100 km/h
e = 2.50%	

STRUCTURE DETAILS	
PROP: Reconstruction	DESIGN CH: 25+267
CA CH: 25+250	EX CH: -
TYPE: -	Box Culvert
SIZE: -	1X2.0m

LEVELS DATUM 335.00	
Proposed:	350.984
Ground Level:	350.554
Lvl Diff (+/-):	0.430
Ground Level Left @ 9.0m	351.280
Ground Level Right @ 9.0m	349.985
Vertical Alignment:	Lc=150.00m
Horizontal Alignment:	Lc=200.00m
Superelevation:	Lc=200.00m
Chainage:	25+000

REV.	DESCRIPTION OF REVISIONS	DATE	CLIENT:	EPC CONTRACTOR:	DESIGN ENGINEER:	PROP. CONSULTANTS:	SAFETY CONSULTANTS:	AUTHORITY ENGINEER:	NAME OF WORK:	TITLE:	ROAD NAME:	DATE:	SCALE:	DRAWING NO.:	SHEET NO.:	REV.
R1	AS PER GENERAL COMMENTS	13-12-2024	MADHYA PRADESH PUBLIC WORKS DEPARTMENT (NH ZONE BHOPAL)	M/s Ramji Construction Company, Jer Bhawan, Prithivipur	A & A CONSULTING ENGINEERS	ENARCO ENGINEERING PRIVATE LIMITED	Khanna Deyal Designers LLP		REHABILITATION & UPGRADE OF EXISTING INTERMEDIATE LANE TO 2 LANE WITH PAVED SHOULDERS FROM KM 0.600 (GULGANJ BYPASS ON NH-34) TO KM 43.000 (BARNA RIVER), LENGTH 42.400 KM ON GULGANJ-AMANGANJ-PAWAI-KATNI NH-43 IN THE STATE OF MADHYA PRADESH ON EPC MODE	PLAN & PROFILE	GULGANJ TO BARNA RIVER (NH-43) EXTENSION	Dec-2024			26 TO 42	01

