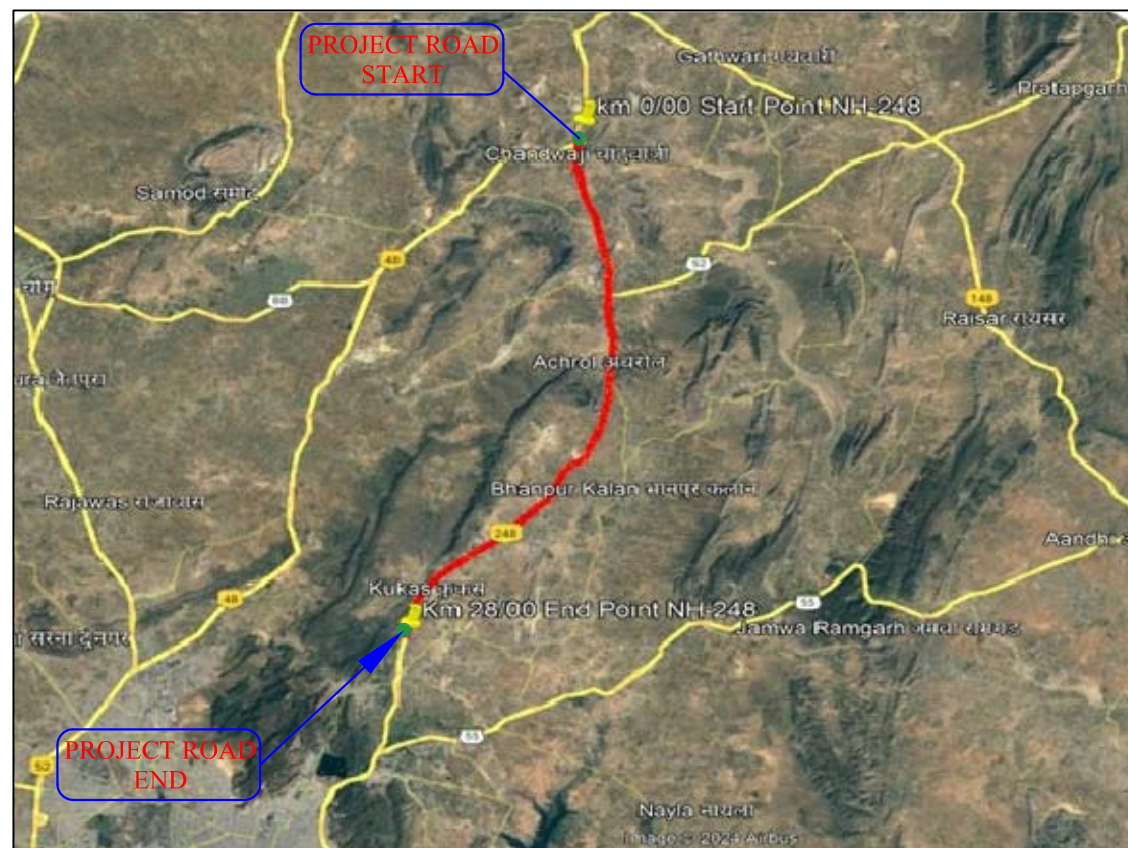


PUBLIC WORKS DEPARTMENT, RAJASTHAN
(Ministry of Road Transport & Highway)
(GOVERNMENT OF INDIA)



Consultancy services for preparation of DPR for widening to four lane from Km 69/750 to Km 75/750 of NH552 Extn. and plantation, street lighting and road safety works from Km 0/00 to Km 28/00 on NH-248 (ii) Consultancy services for preparation of DPR for grade separated structure with slip road for grade separated structure with slip road at Achrol from km 11/00 to km 12/00 of NH248



**GAD OF
STRUCTURES**

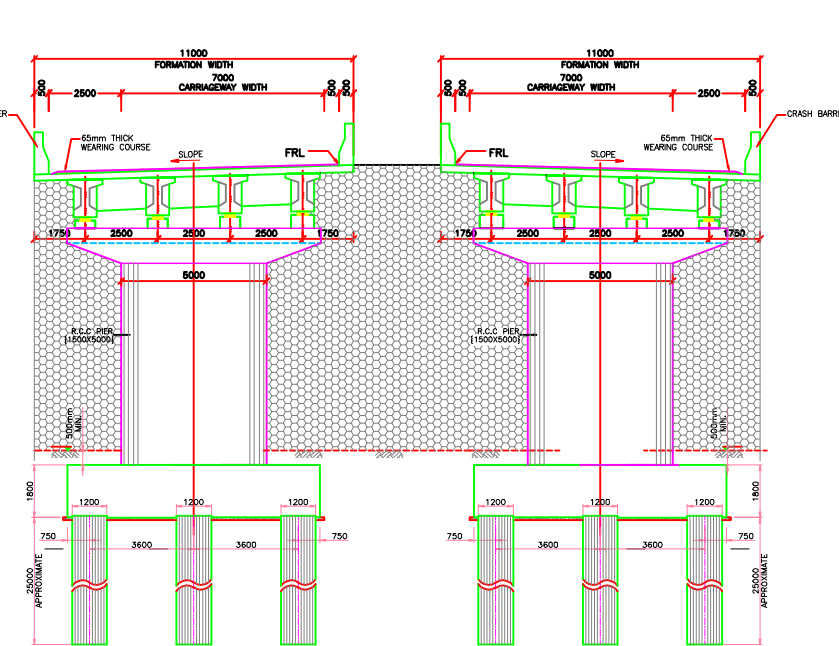
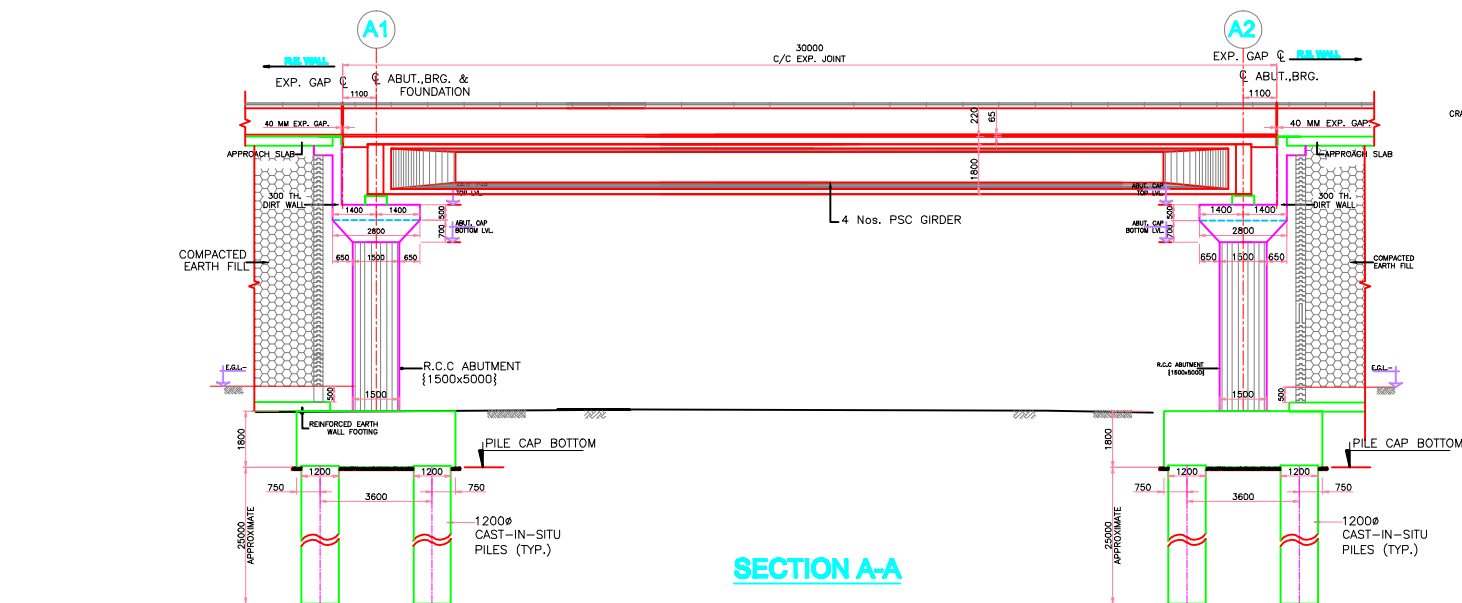


Theme Engineering Services Pvt. Ltd.

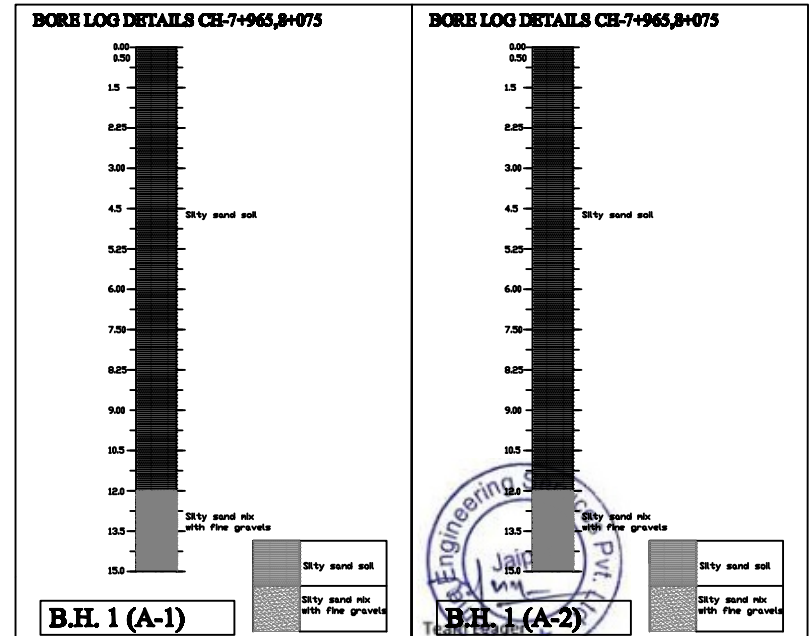
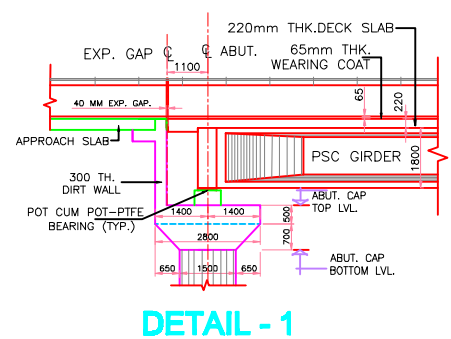
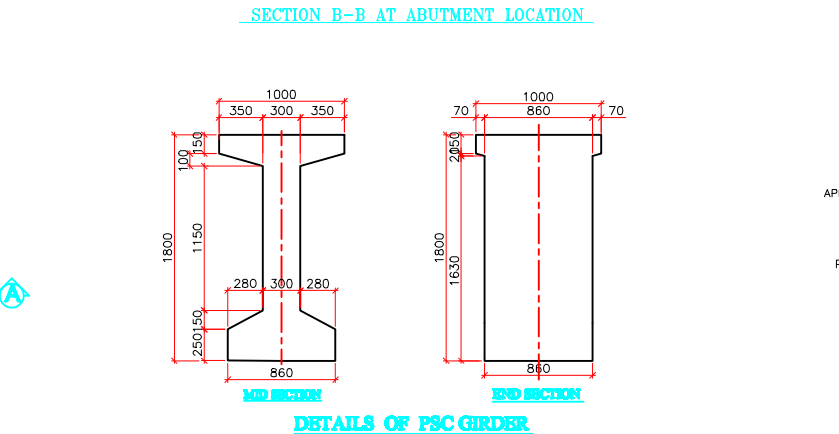
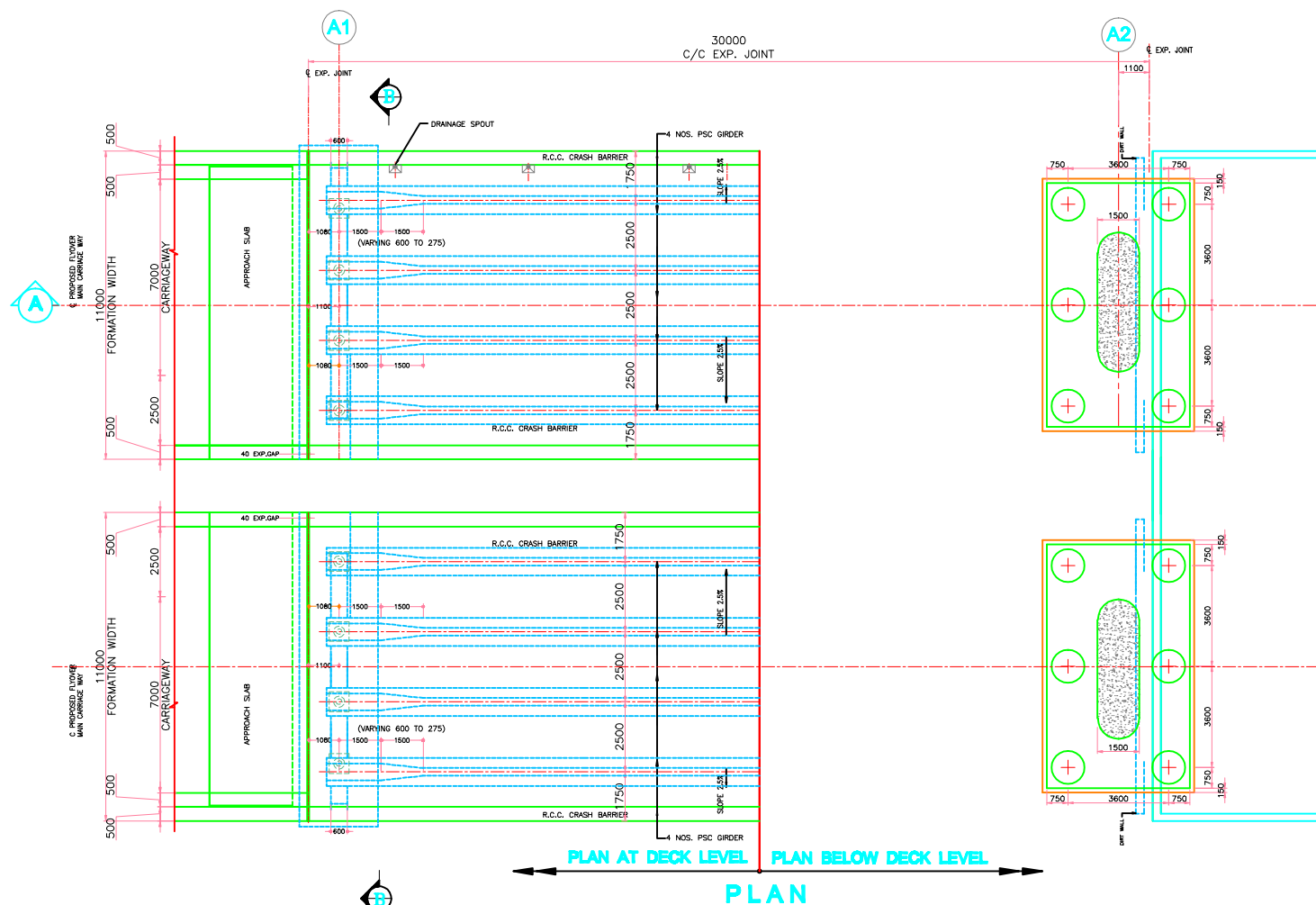
B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.)
Phone : +91-141-2724495-96-97, Telefax: +91-141-2724491
Email : theme@themeengineering.com, design@themeengineering.com
Website : www.themeengineering.com



VUP

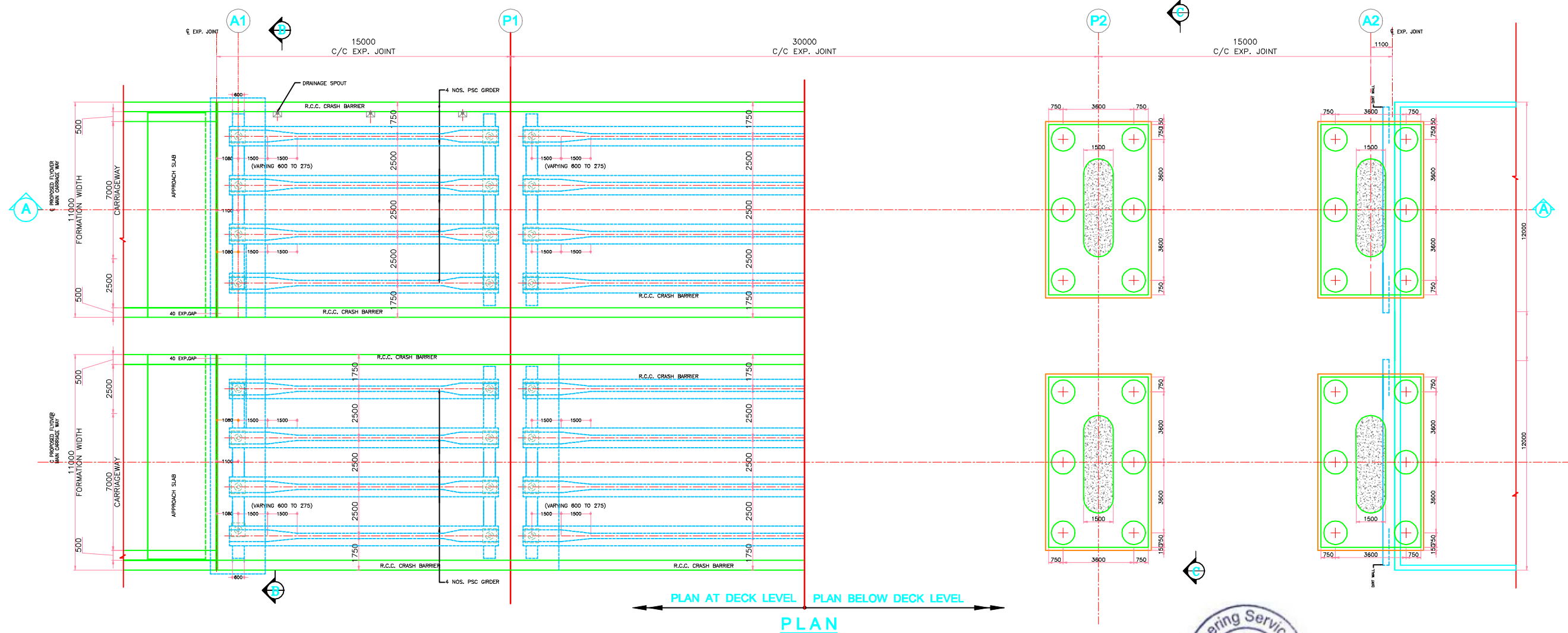
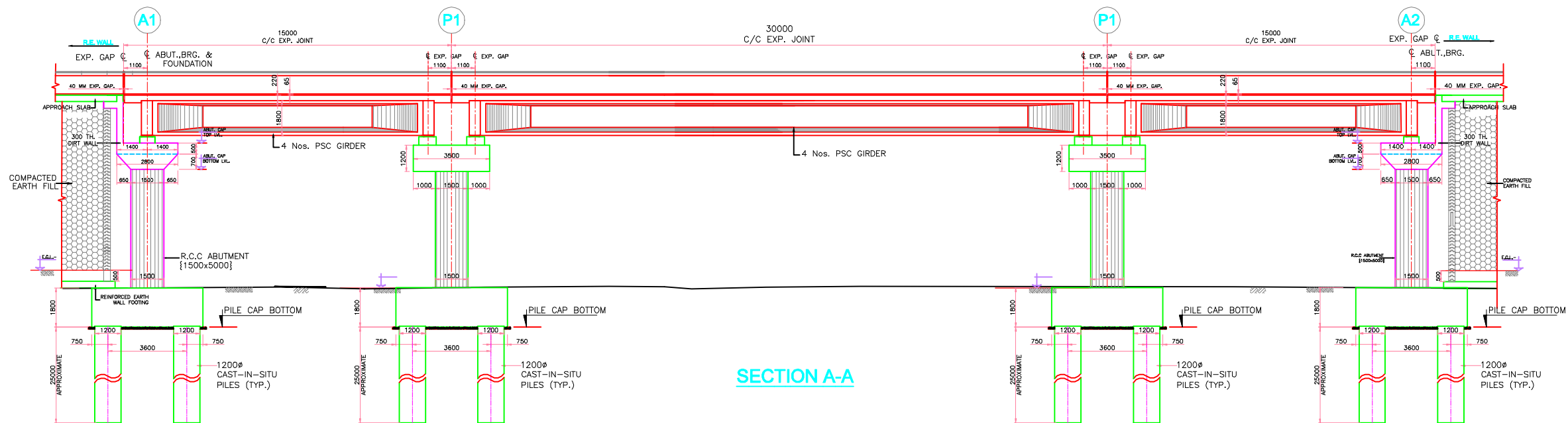





- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. POT CUM POT-POT-PTFE BEARING ARE PROVIDED UNDER THE SUPERSTRUCTURE.
 4. PRECAST POST TENSIONED GIRDER HAS BEEN PROVIDED IN SUPERSTRUCTURE.
 5. THE SELECTED EARTH FILL USED FOR BACKFILLING BEHIND ABUTMENTS WALL AND RETAINING WALL SHALL HAVE THE FOLLOWING PROPERTIES:
C=0, $\phi > 30^\circ$, $\gamma = 1.80t/m^3$
 6. GRADE OF CONCRETE FOR VARIOUS STRUCTURAL COMPONENTS SHALL BE AS FOLLOWS:-
 - PRECAST POST TENSIONED GIRDERM-40
 - R.C.C DECK SLAB & END DIAPHRAGMM-35/40
 - ABUTMENT, ABUTMENT FOUNDATION, ABUTMENT CAP, DIRT WALL, RETURN WALLM-35
 - APPROACH SLAB.....M-30
 - GRADE OF LEAN CONCRETE BELOW APPROACH SLAB SHALL BE ...M-15
 - PEDESTAL M-40
 7. ALL LEVELS ARE AS PER FINAL PLAN & PROFILE OF HIGHWAY.



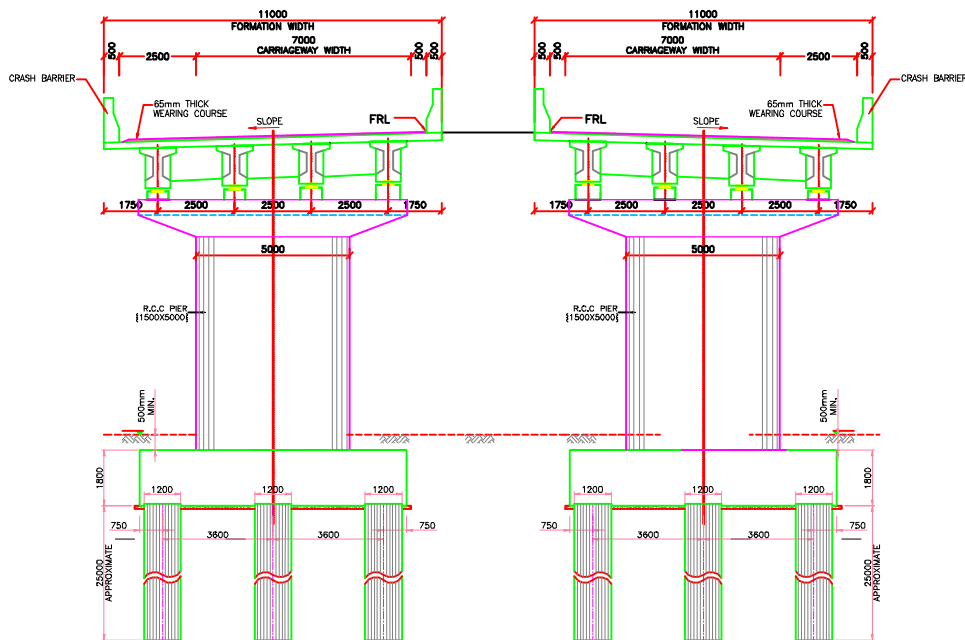
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					DESIGNED BY : T.M. MURLI								
					DRAWN BY : IRSHAD KHAN								
					APPROVED BY : D.K.GUPTA								
REV.	ISSUED	DESCRIPTION			CHECKED	APPROVED	CHAINAGE : -	DATE:-			Consultant <div><div>Theme Engineering Services Pvt. Ltd. B-34, Gated Vellia, Jaashar Circle, Jaipur-302017 (Reg.) Phone : +91-141-2724425-28-27, Telefax : +91-141-2724421 Email : thene@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div></div>	DRG. NO. : TE3/NH-248/STR/04	
						REVISION :- R-1		SCALE :-					



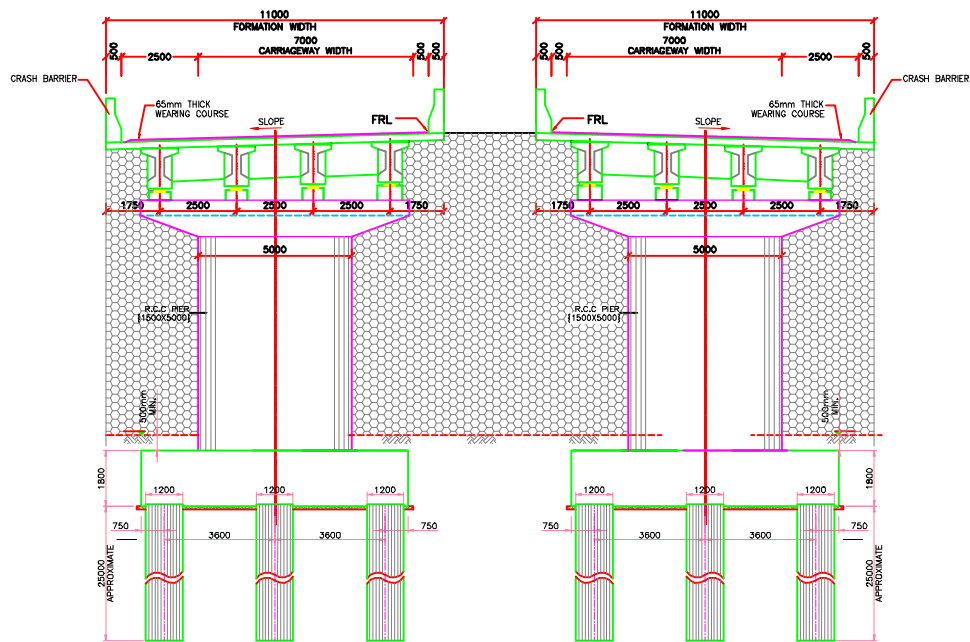
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					DESIGNED BY : T.M. MURLI				TITLE : GENRAL ARRANGEMENT DRAWING OF VUP 1X15+1X30+1X15 AT CH:-11+780		
					DRAWN BY : IRSHAD KHAN						
					APPROVED BY : D.K.GUPTA	CHAINAGE : -	DATE:-			Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/04	
REV.	ISSUED	DESCRIPTION		CHECKED	APPROVED		REVISION :- R-1		SCALE :-		
<div>B-24, Golul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724486-96-97, Telefax: +91-141-2724481 E-mail : themen@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div>											

NOTES:

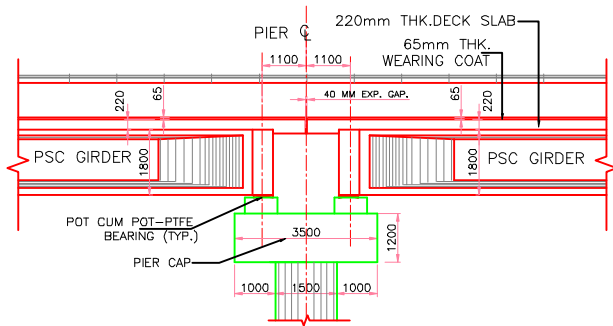
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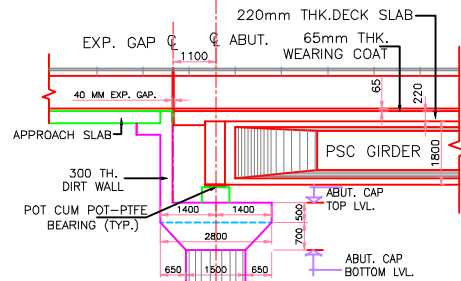
SECTION B-B AT ABUTMENT LOCATION



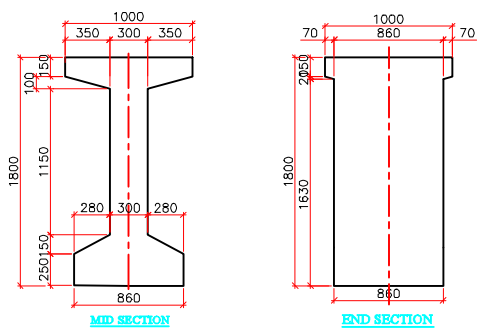
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DETAIL - 2

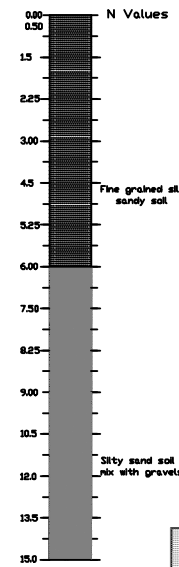


DETAIL - 1



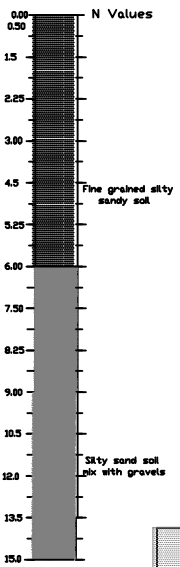
DETAILS OF PSC GIRDER

BORE LOG DETAILS CH-11+780



B.H. 1 (A-1)

BORE LOG DETAILS CH-11+780



B.H. 1 (A-2)

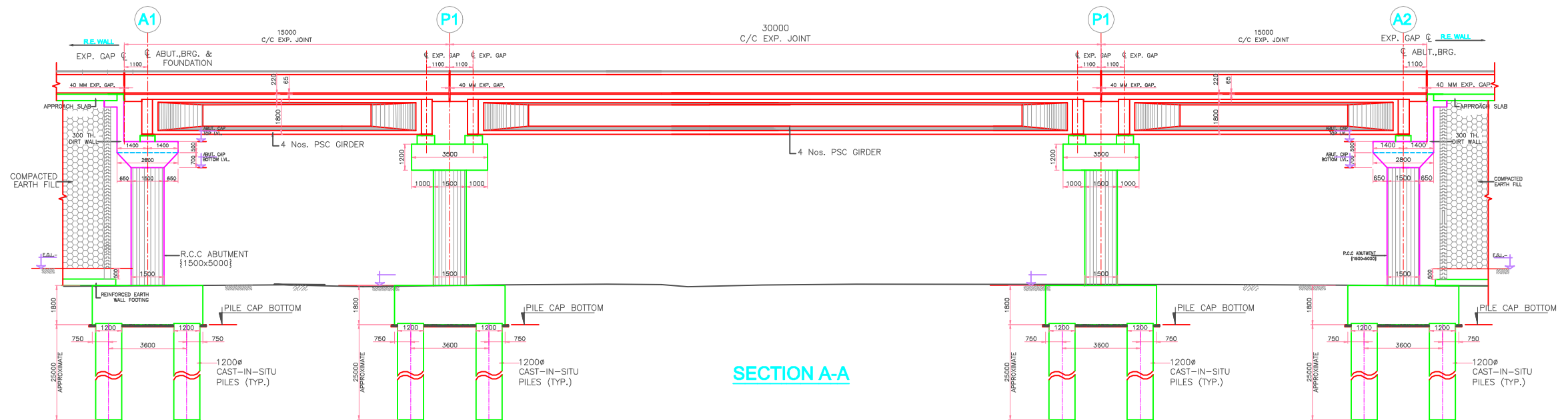


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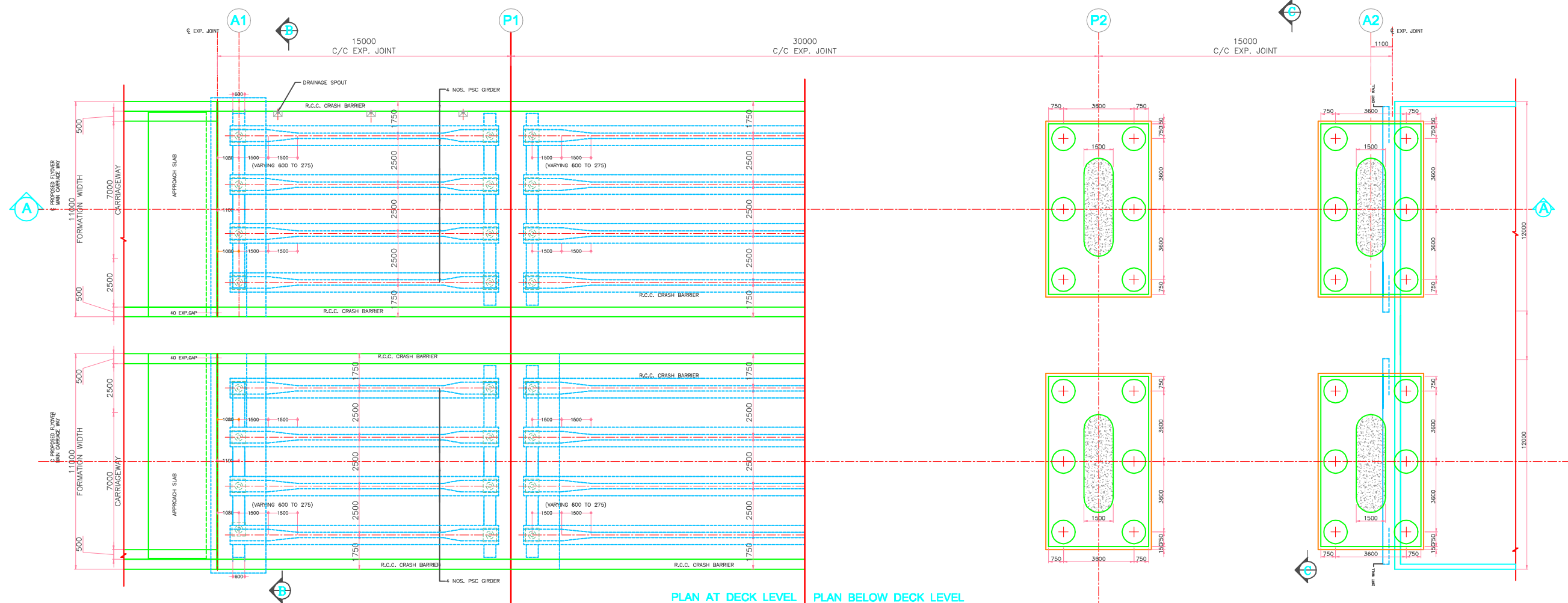
CHECKED BY : VVS RAMAKRISHNA K
DESIGNED BY : T.M. MURLI
DRAWN BY : IRSHAD KHAN
APPROVED BY : D.K.GUPTA

CLIENT :	Public Works Department, Rajasthan (Ministry of Road Transport & Highway)
CHAINAGE : - 12+840	DATE:-
	REVISION :- R-1
	SCALE :-

PROJECT :	CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRUTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.
TITLE :	GENRAL ARRANGEMENT DRAWING OF VUP 1X15+1X30+1X15 AT CH-11+780
Consultant :	Theme Engineering Services Pvt. Ltd. B-24, Golud Vatika, Jawahar Circle, Jalpur-302017 (Raj.) Phone : +91-141-2724486-96-97, Telefax: +91-141-2724491 Email : them+@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com
DRG. NO. :	TES/NH-248/STR/04



SECTION A-A



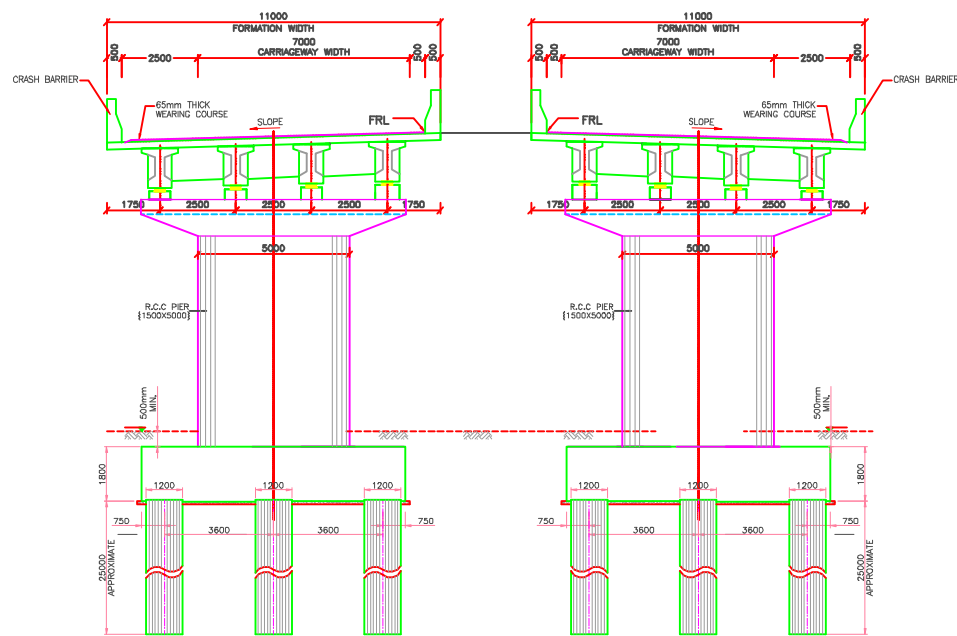
PLAN AT DECK LEVEL PLAN BELOW DECK LEVEL

PLAN

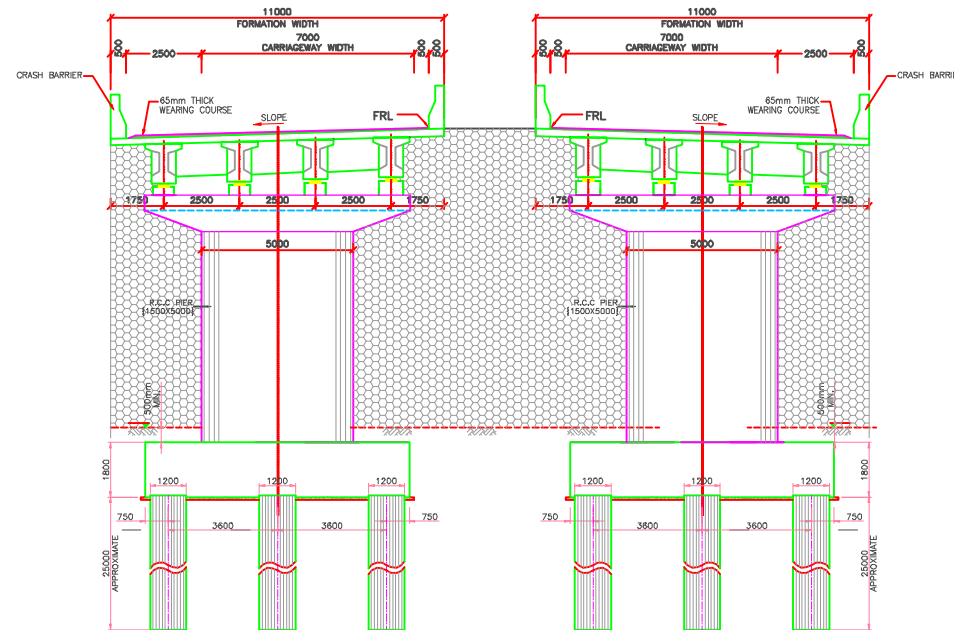


				CHECKED BY : G.K BAGDA	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	<div>PROJECT :</div> CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
				DESIGNED BY : T.M. MURLI		<div>TITLE :</div> GENRAL ARRANGEMENT DRAWING OFVUP 1X15+1X30+1X15 AT CH-25+300		
				PREPARE BY : IRSHAD KHAN		<div>Consultant</div> <div>Theme Engineering Services Pvt. Ltd.</div> <div>B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax: +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div>		
				APPROVED BY :		<div>CHAINAGE :</div> - 12+840	<div>DATE:-</div> AUG. - 2024	
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		<div>REVISION :-</div> R-1	<div>SCALE :-</div>	

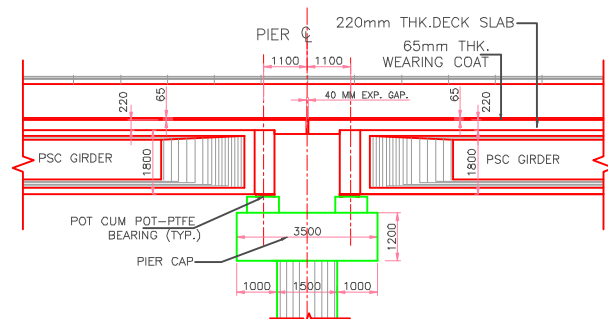
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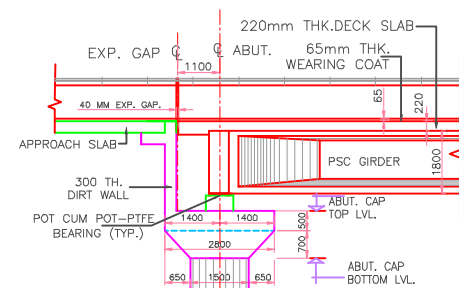
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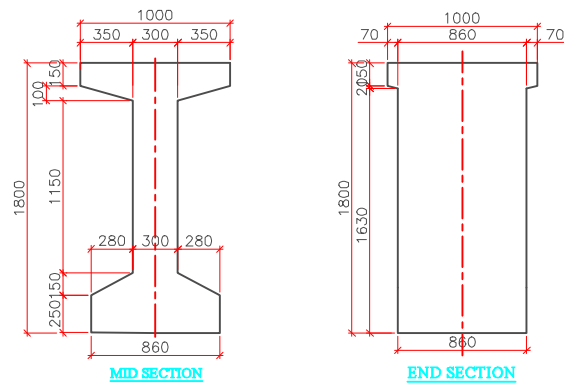
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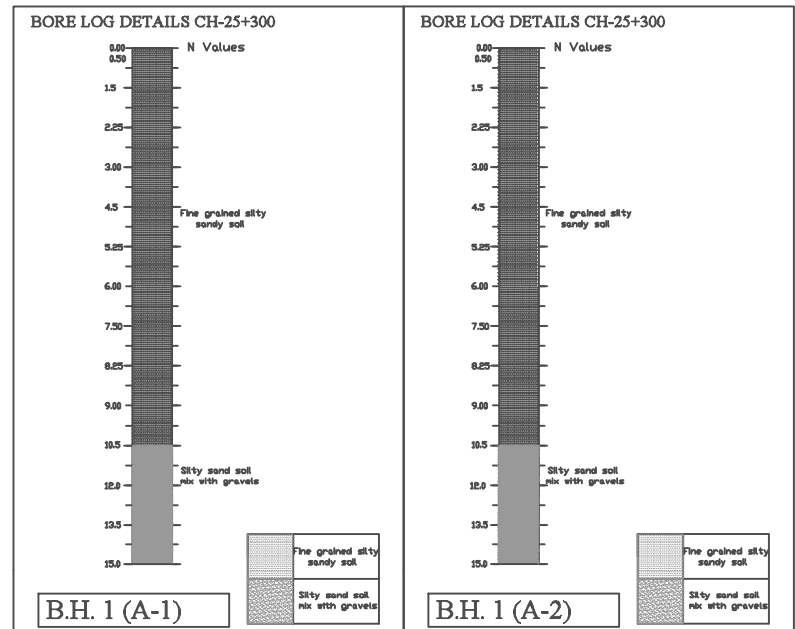
DETAIL - 2



DETAIL - 1



DETAILS OF PSC GIRDER



NOTES:

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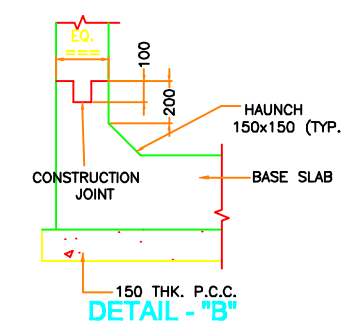
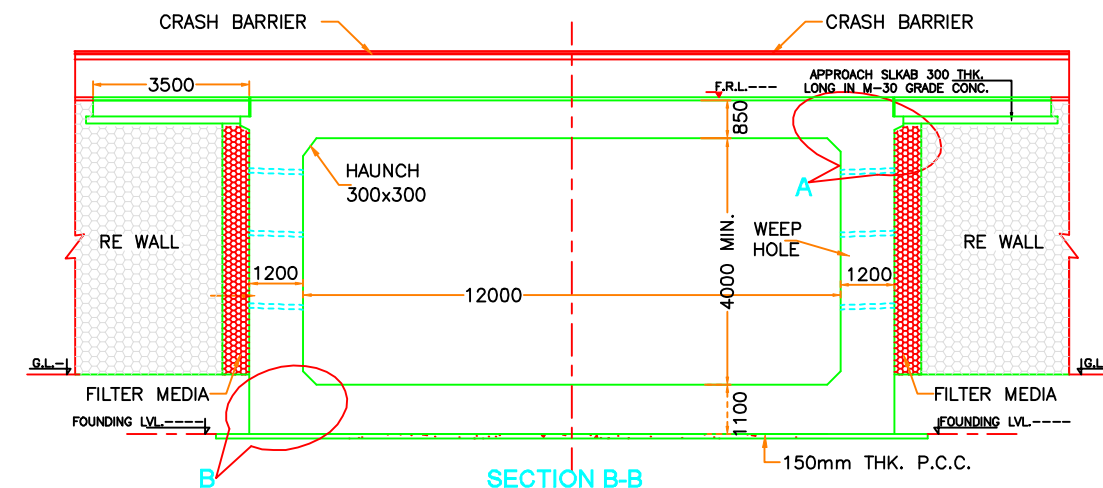
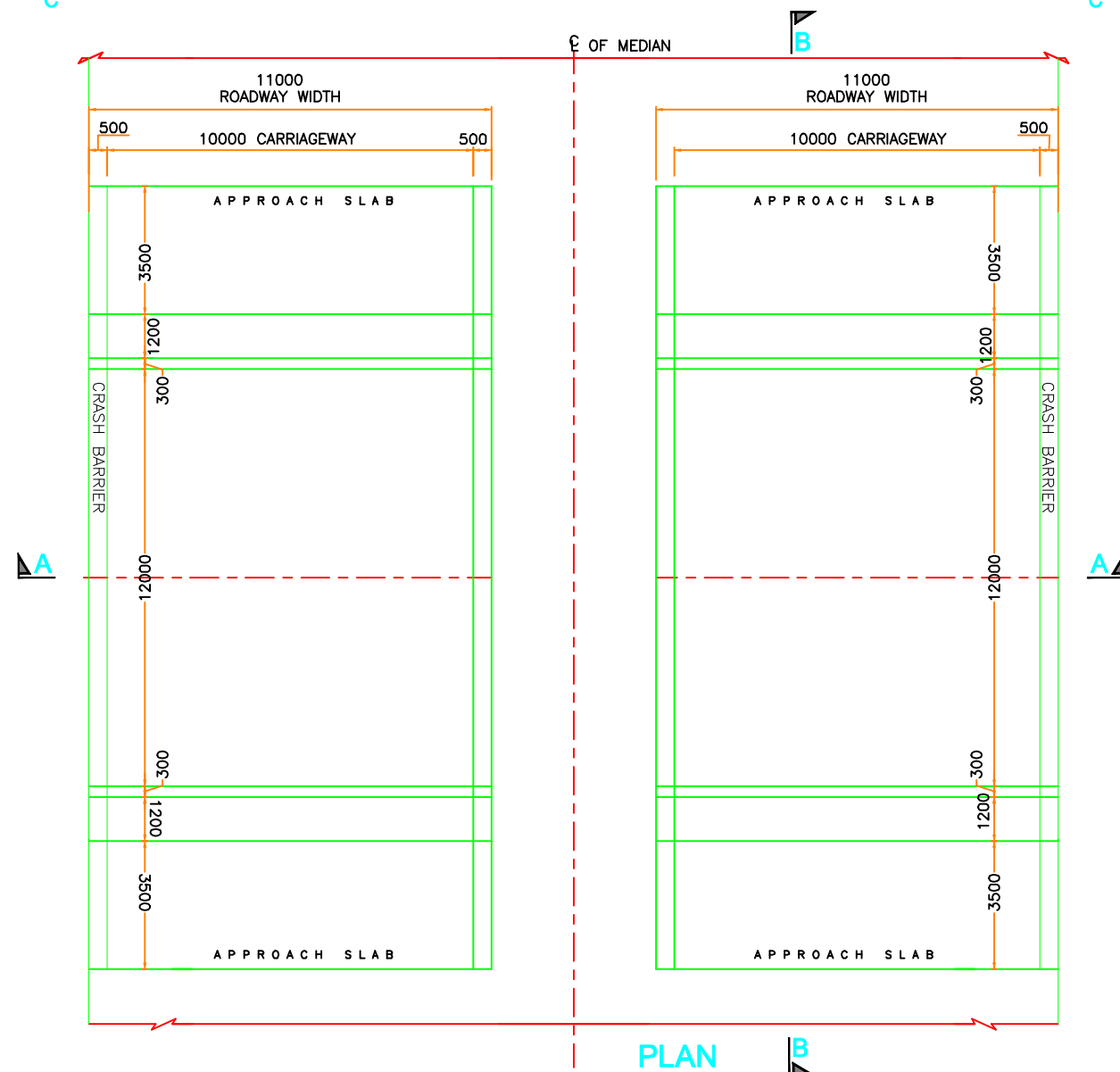
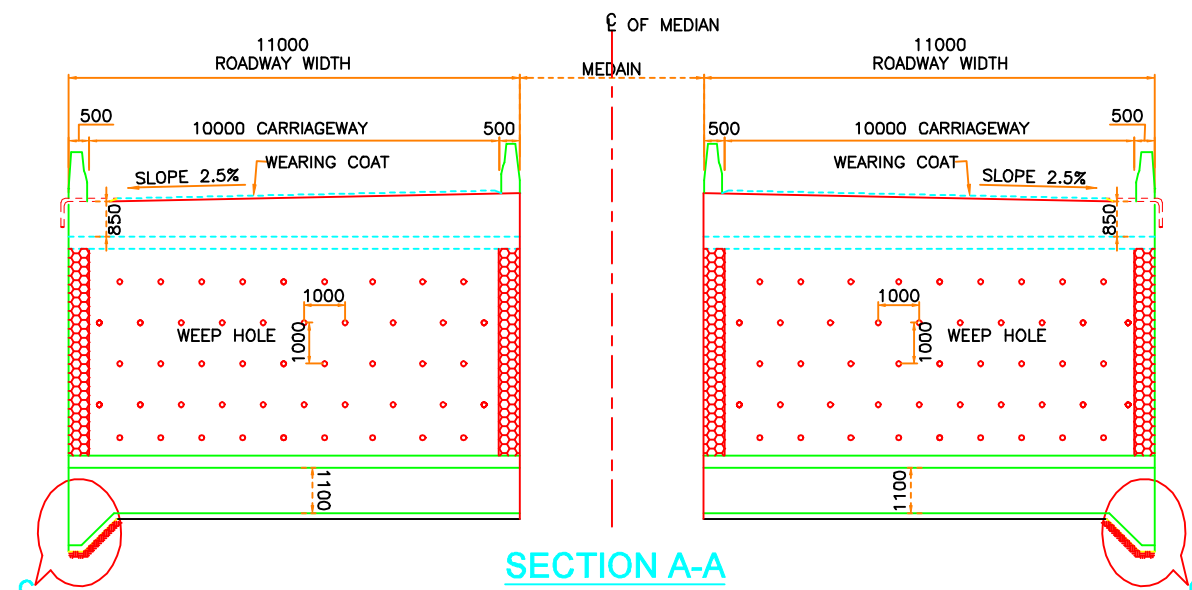
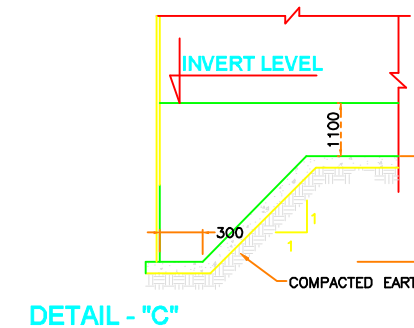
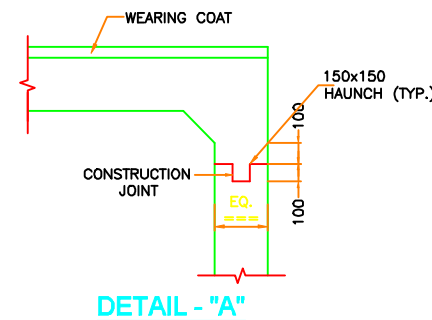
				CHECKED BY : G.K BAGDA	CLIENT :		PROJECT :	CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.
				DESIGNED BY : T.M. MURLI			TITLE :	GENRAL ARRANGEMENT DRAWING OF VUP 1X15+1X30+1X15 AT CH:25+300
				PREPARE BY : IRSHAD KHAN			Consultant	Theme Engineering Services Pvt. Ltd.
				APPROVED BY :	CHAINAGE : - 12+840	DATE:- AUG. - 2024	DRG. NO. :	TES/NH-248/STR/05
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		REVISION :- R-1	SCALE :-	

LVUP



NOTES :

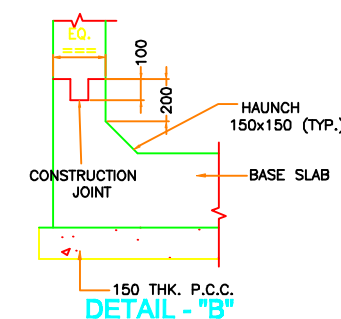
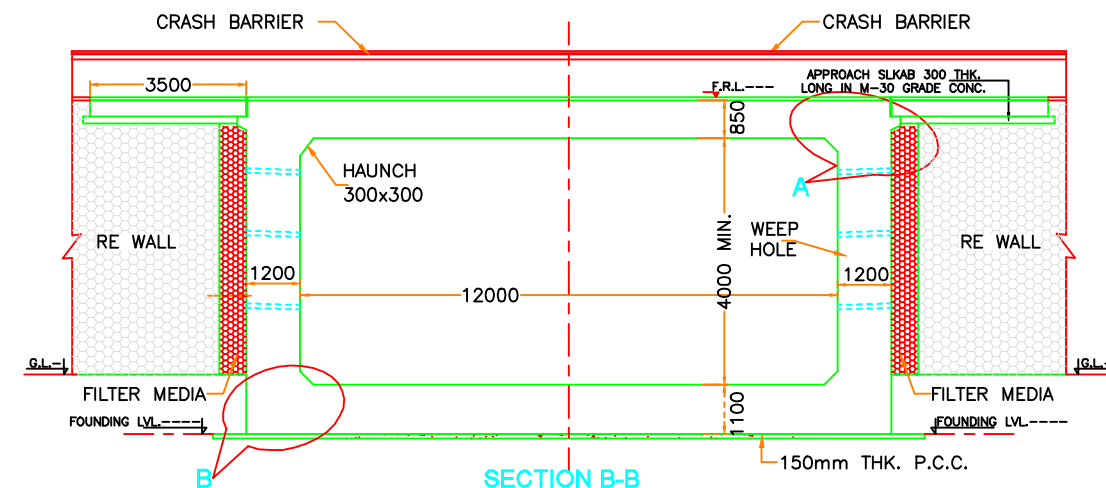
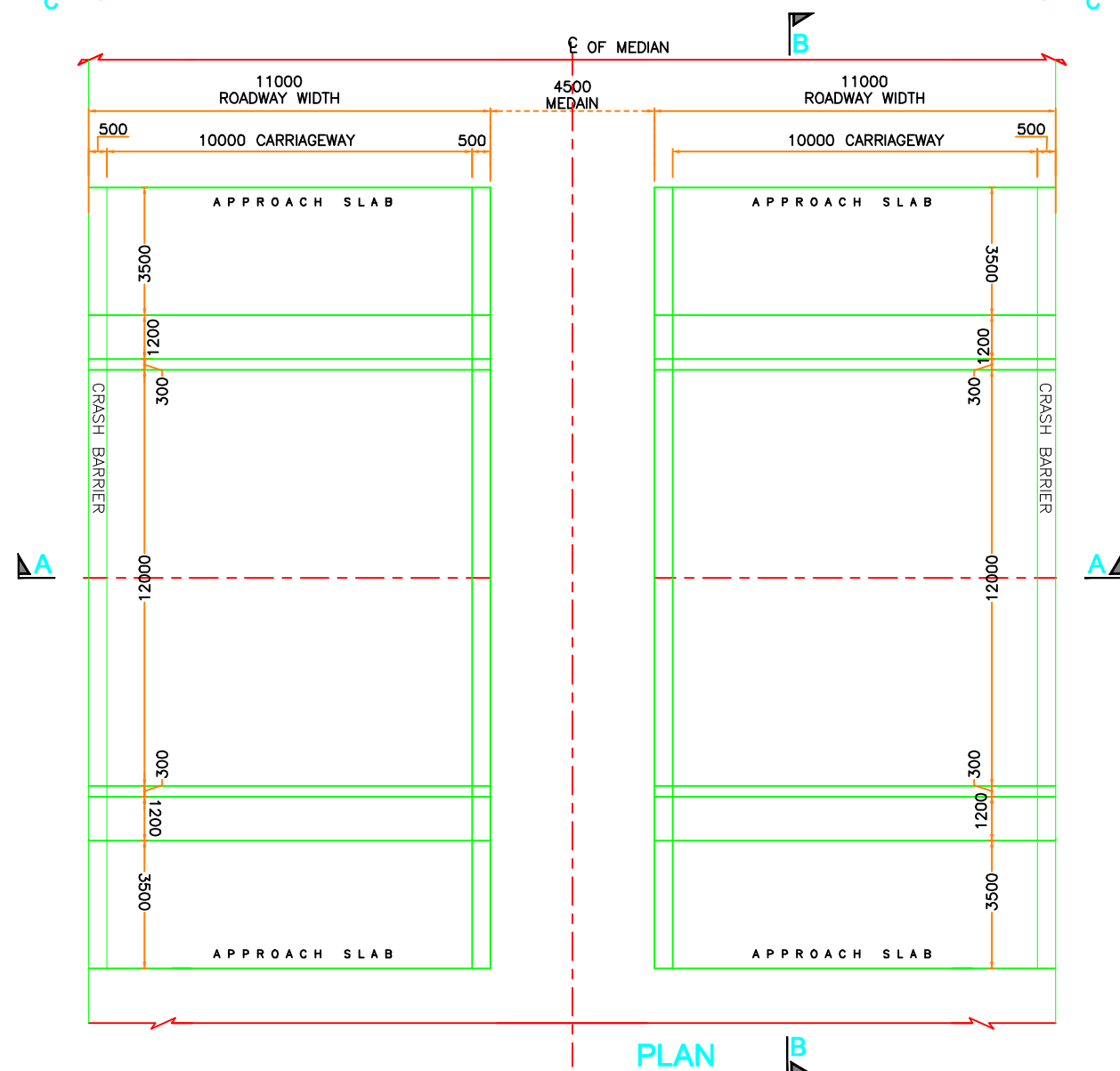
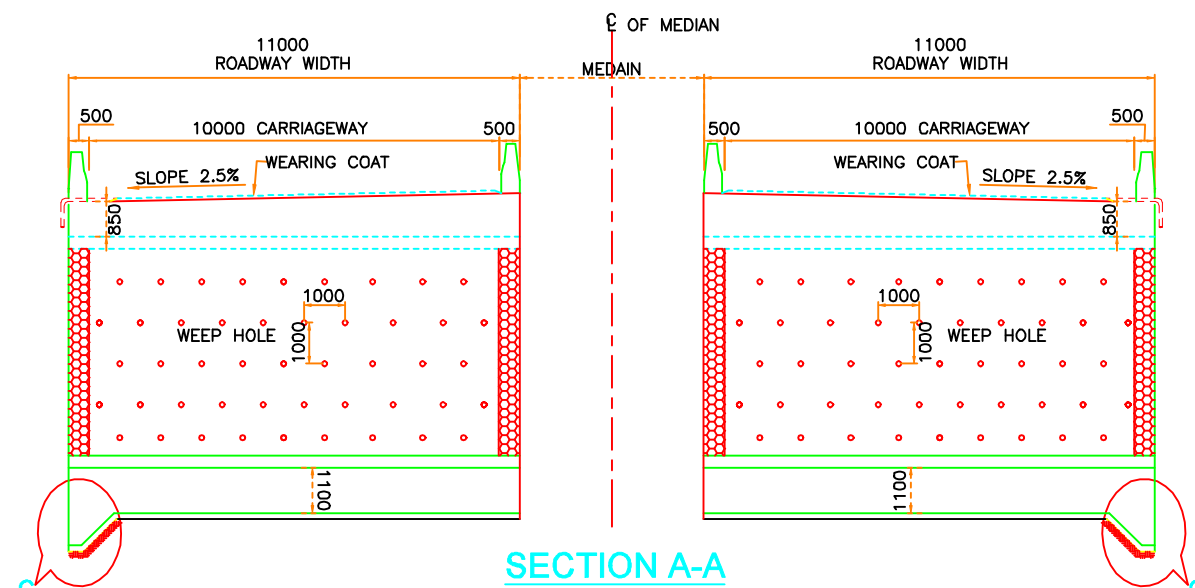
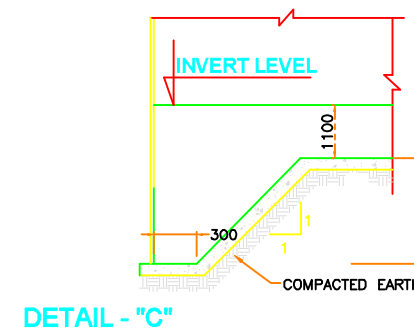
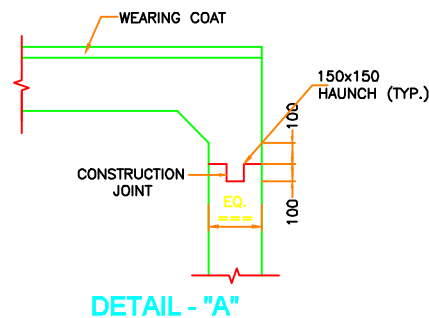
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
- FOR DETAILS OF PROTECTION WORK AND CURTAIN WALL REFER SEPARATE DRAWING.
- FILLING BEHIND SIDE WALLS TO BE DONE SIMULTANEOUSLY FROM BOTH SIDES.
- THE SELECTED EARTH FILL USED FOR BACKFILLING BEHIND BOX WALL, MEDIAN WALL AND WING WALL SHALL HAVE THE FOLLOWING PROPERTIES:
C=0
 $\phi > 30^\circ$
 $\gamma = 1.80 \text{ t/m}^3$
- GRADE OF CONCRETE FOR VARIOUS STRUCTURAL COMPONENTS SHALL BE AS FOLLOWS :-
• ALL ELEMENTS OF BOX CULVERT M35
• LEAN CONCRETE M15
- FOR DETAILS OF STRAIGHT RETURN WALL REFER SEPARATE DRAWING.
- FORMATION LEVELS AND INVERT LEVELS ARE TO BE CONFIRMED AT THE SITE AT THE TIME OF EXECUTION.
- SBC. SHALL BE MORE THAN 15T/SQM. AT 1m. BELOW GL.



					CHECKED BY : G.K BAGDA	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRUCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF SPAN AT CH:- 11+560 LVUP		
					PREPARE BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/LVUP		
					APPROVED BY :		CHAINAGE : -	DATE:- AUG. - 2024	SCALE :-
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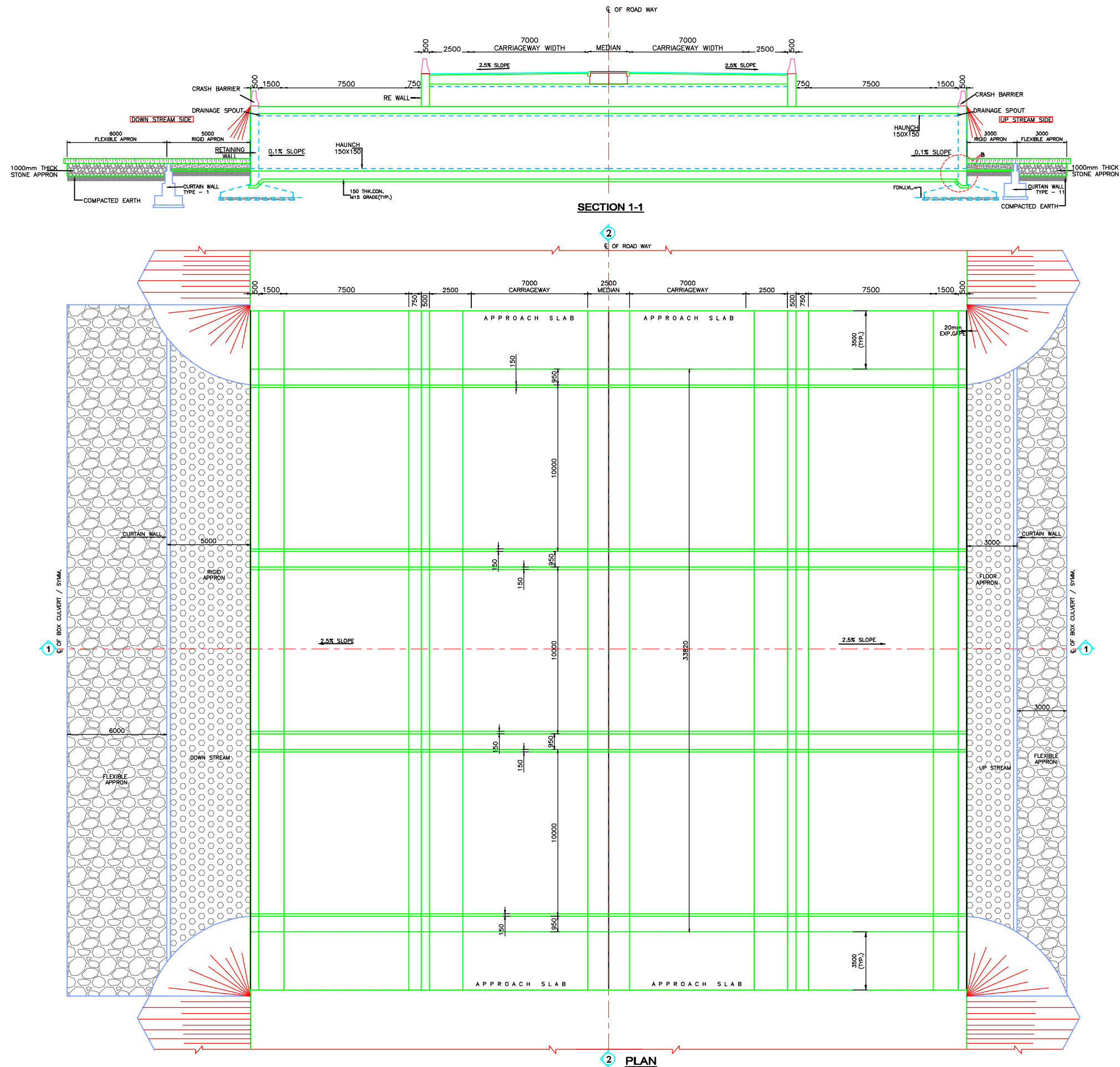
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					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF SPAN AT CH:- 11+970 LVUP		
					PREPARE BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/LVUP		
					APPROVED BY :		CHAINAGE : -	DATE:- AUG. - 2024	SCALE :-
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MNB





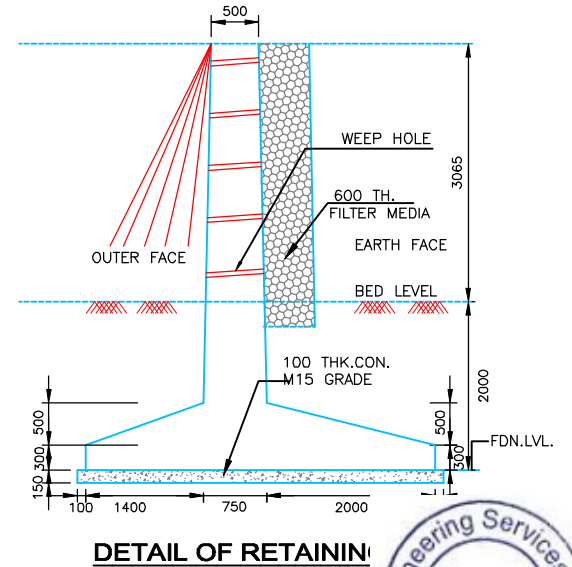
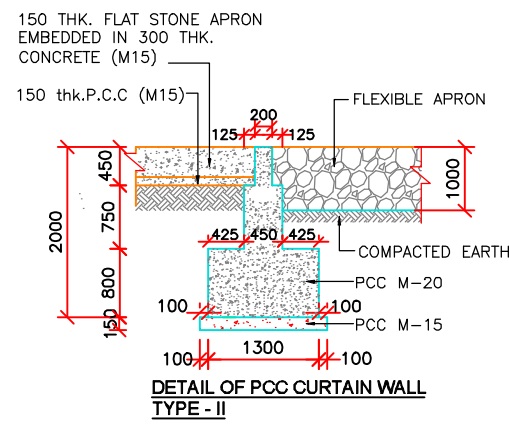
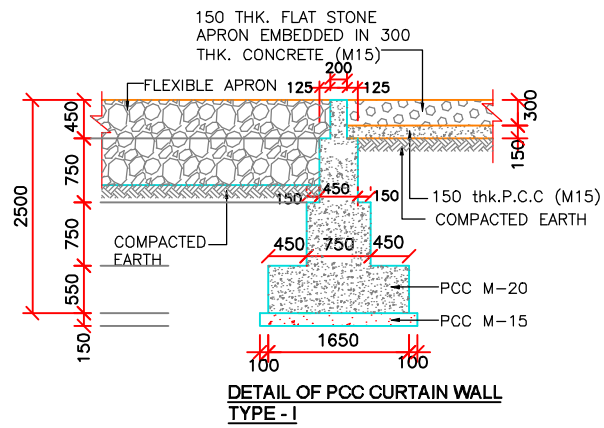
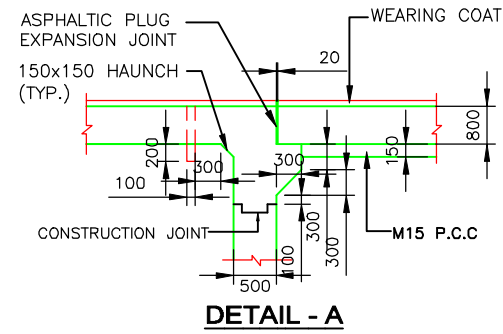
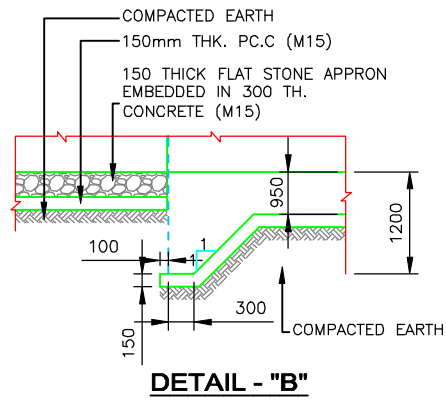
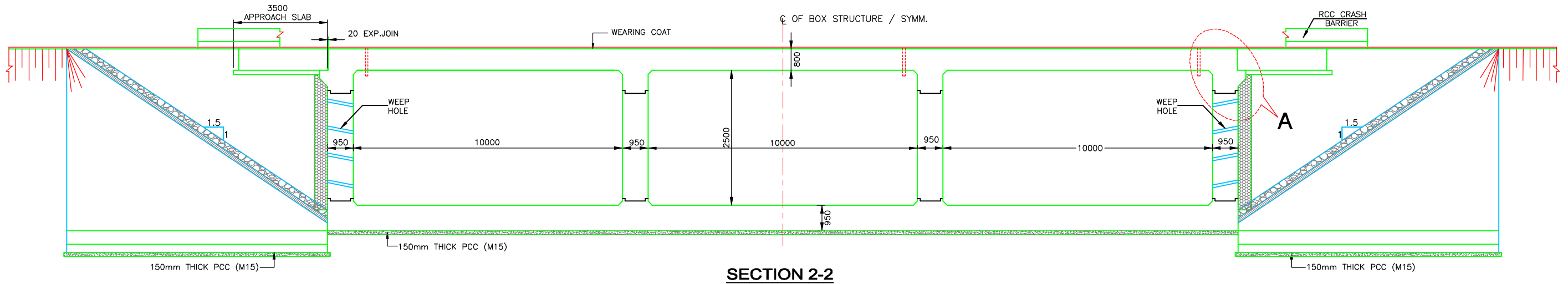
- NOTES:**
- THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING
- IRC 112-2020 : CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
 - IRC: 5-2015(SEC I) : GENERAL FEATURES OF DESIGN.
 - IRC: 6-2017 (SEC II) : LOADS AND STRESSES.
 - IRC: 78-2024 : FOUNDATIONS AND SUBSTRUCTURES.
 - IRC: 89-2019 : GUIDELINES FOR DESIGNING AND CONSTRUCTION OF RIVER TRAINING AND CONTROL WORKS FOR ROAD BRIDGES.
 - IRC: SP 13 -2022 : GUIDE LINES FOR THE DESIGN OF SMALL BRIDGES AND CULVERTS

- MATERIAL SPECIFICATIONS**
- ONLY DESIGN MIX CONCRETE SHALL BE USED IN THE WORK FOR STRUCTURAL MEMBERS AS PER IS:10262. THE GRADE OF CONCRETE FOR VARIOUS COMPONENTS OF THE PROJECT SHALL BE AS FOLLOWS: -
- LEVELING COARSE : M 15
 - BOX STRUCTURE : M 35
 - PCC CURTAIN WALL : M 20
 - CRASH BARRIER : M 40
 - RETAINING WALL : M 30

- CLEAR COVER TO REINFORCEMENT BOX STRUCTURE**
- TOP SLAB : 45MM
 - BOTTOM SLAB : 75MM
 - SIDE WALL ERATH FACE : 75MM
 - SIDE WALL INNER FACE : 45MM
 - CRASH BARRIER : 40MM
- ALL DIMENSION ARE IN MILLIMETERS. AND LEVELS ARE IN METERS UNLESS MENTIONED OTHERWISE SPECIFIED.
 - THE DRAWING ARE NOT SCALED. ONLY WRITTEN DIMENSIONS AND LEVELS ARE FOLLOWED.
 - THIS DRAWING SHOULD BE CHECKED WITH RESPECT TO SITE CONDITIONS. IN CASE OF ANY DISCREPANCY, IT SHOULD BE BROUGHT TO THE NOTICE OF DESIGN OFFICE BEFORE STARTING THE WORK.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY DRAWINGS FOR F.R.L OF MAIN CARRIAGEWAY.
 - DESIGN LOAD SHALL BE AS PER IRC:6-2017 STRUCTURE TO BE DESIGNED FOR 70R VEHICLE, CLASS A VEHICLE & SPECIAL VEHICLE LOADING AS PER TABLE 6.
 - FILLING BEHIND SIDE WALLS TO BE DONE SIMULTANEOUSLY FROM BOTH SIDES, AFTER CASTING TOP SLAB & AS PER APPENDIX 8 OF IRC 78-2024.
 - ACTUAL LENGTH OF APPROACHES SHALL BE ADJUSTED AS PER SITE CONDITIONS.
 - GUIDE WALL SHALL BE PROVIDED WHERE EVER THE STREAM CURVES. TO PROTECT THE FIELD /EMBANKMENT.
 - 600 mm THK FILTER MEDIA BEHIND RETATING WALL & BOX CULVERT WALL SHALL BE PROVIDED AS PER IRC:78-2024.
 - LOOSE/UNSUITABLE SOIL BELOW BOX CULVERTS SHALL BE REPLACED WITH GRANULAR SOIL/SAND AND COMPACTED AS PER MORTH SPECIFICATION.
 - DIVERSION ROADS SHALL BE PROVIDED AS PER SITE CONDITIONS REQUIREMENT.
 - THE SAFE BEARING CAPECITY HAS BEEN CONSIDERED AS 10T/M2 IN DESIGN.
 - SBC SHALL BE CONFIGURED AT SITE BEFORE EXECUTING THE WORK.
 - THE REINFORCEMENT SHLL BE HYSD, BARS OF GRADE DESINATION Fe500D CONFIRMING TO IS:1786-2008.
 - DRAINAGE SPOUT SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS.
 - IN ORDER TO ENSURE THE SAFETY OF RAFT FOUNDATION. THE PROTECTIVE WORKS SHALL BE COMPLETED BEFORE THE FLOODS SO THAT THE FOUNDATION DOES NOT GET UNDERMINED.
 - WEEP HOLES OF 100 MM DIA OF PVC PIPE 6KG/SQCM @ 1.00 METERS C/C 1 IN 20 LOPES (STAGGERED) TO BE PROVIDED IN WALL FROM 500MM ABOVE BED LEVEL.
 - THE SELECTED EARTHFILL USED FOR BACKFILLING BEHIND WALL SHALL HAVE THE FOLLWING PROPERTIES: -
C=00 $\phi \geq 300$ DRY DENSITY = 20 KN/M3
 - THE TOP OF BOTTOM RAFT SHALL BE KEPT MINIMUM 300mm BELOW LOWEST GROUND LEVEL. HOWEVER, CHANGE IN CLEAR HEIGHT OF THE RCC BOX SHALL NOT BE MORE THAN 500mm.
 - 'DK' IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS
UP TO 900mm
GREATER THAN 900mm
VALUE OF 'DK'
1200mm
+300
 - REFER SEPARATE DRAWING FOR RETAINING WALL.
 - SOME VALUES MENTIONED IN THE DRAWING ARE ROUND OFFED.



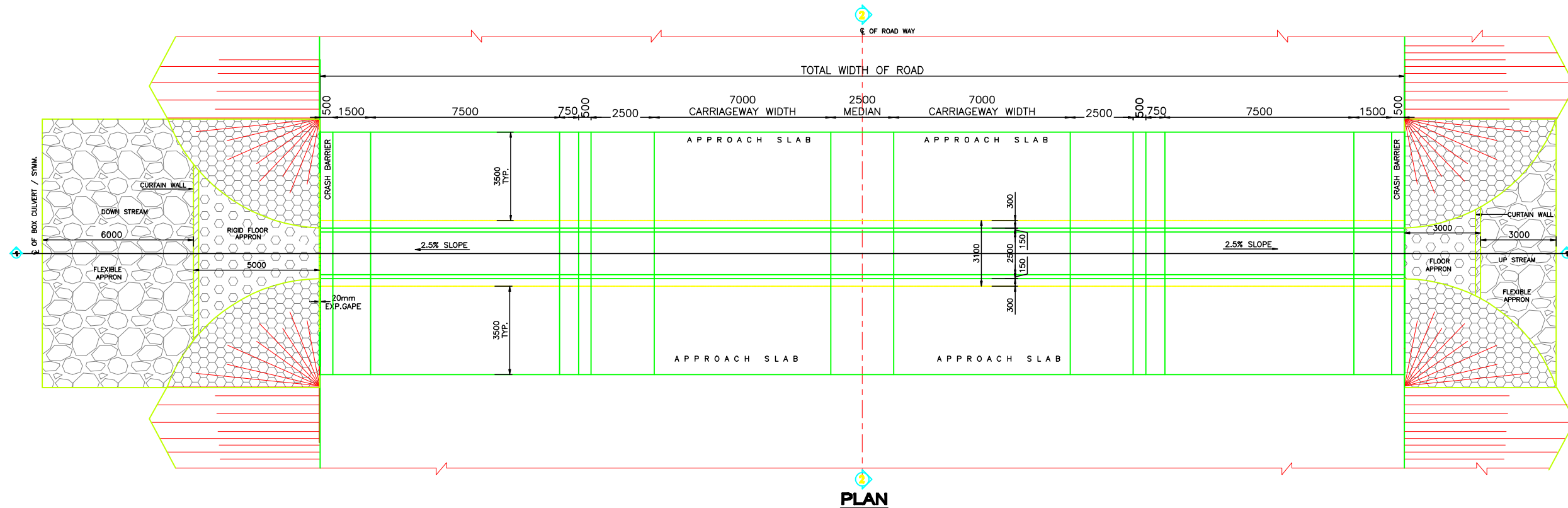
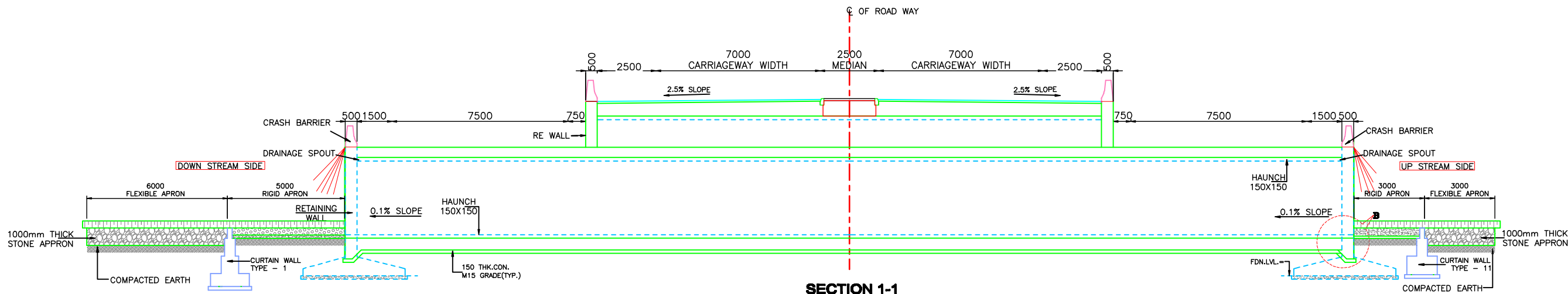
					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF RECON. OF SPAN 3X10M AT CH-25+350		
					DRAWN BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/01		
					APPROVED BY : D.K.GUPTA		CHAINAGE : -	DATE:- AUG. - 2024	SCALE :-
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED			REVISION :- R-1		



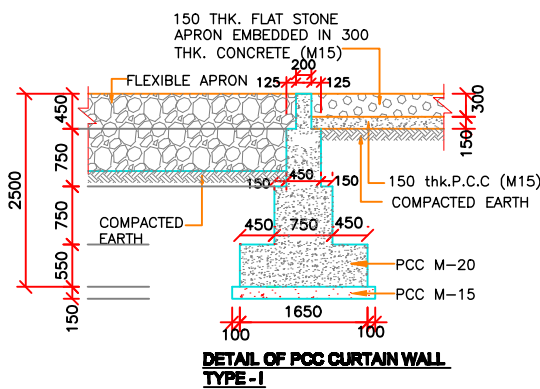
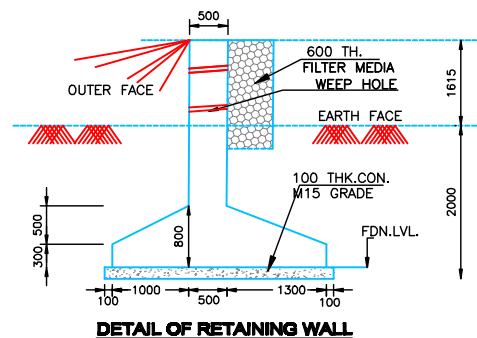
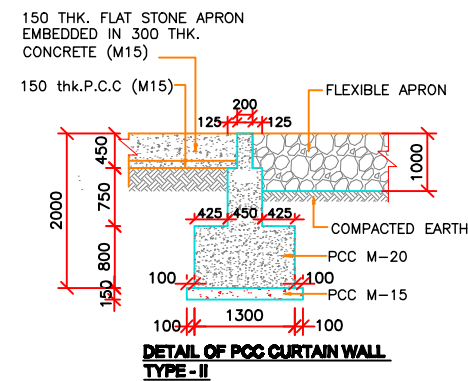
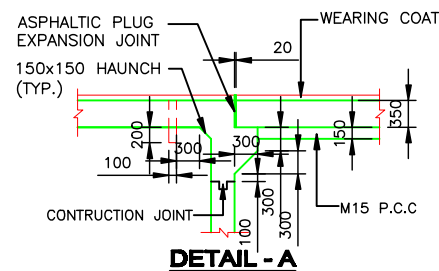
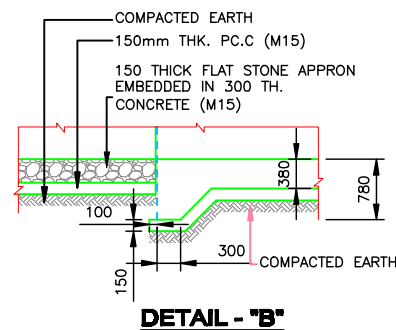
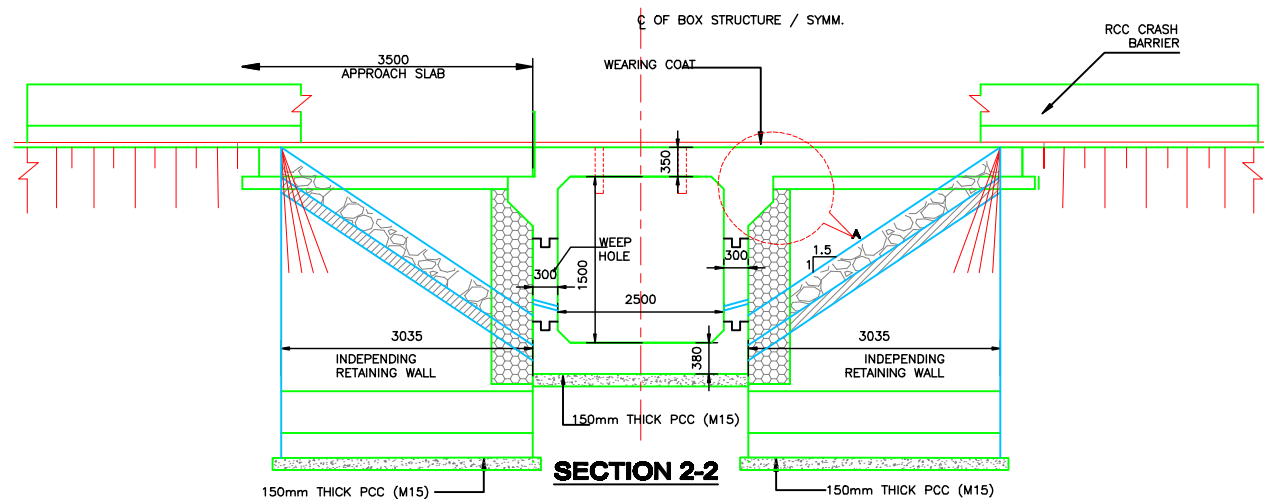
					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.				
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF RECON. OF SPAN 3X10M AT CH-25+350				
					DRAWN BY : IRSHAD KHAN		CHAINAGE : -	DATE:- AUG. - 2024		Consultant  Theme Engineering Services Pvt. Ltd. B-24, Gokul Vatika, Jawahar Circle, Jajpur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com	DRG. NO. : TES/NH-248/STR/01
					APPROVED BY : D.K.GUPTA			REVISION :- R-1	SCALE :-		
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED							

BOX CULVERT





					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRUCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.			
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.5x1.5 M AT CH+155			
					DRAWN BY : IRSHAD KHAN		CHAINAGE : -	DATE:- AUG. - 2024		
					APPROVED BY : D.K.GUPTA					
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED			REVISION :- R-1	SCALE :-	<div>Consultant</div> <div> Theme Engineering Services Pvt. Ltd.<div>B-84, Gokal Vihar, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724200-00-07, Tollfree : +91-141-2724401 Email : tesraj@themeengineering.com, tesraj@themeengineering.com</div></div>	DRG. NO. : TES/NH-248/STR/01



NOTES:

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

- IRC 112-2020 : CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
 IRC 5-2015 (SEC 1) : GENERAL FEATURES OF DESIGN.
 IRC 6-2017 (SEC 1) : LOADS AND STRESSES.
 IRC 78-2024 : FOUNDATIONS AND SUBSTRUCTURES.
 IRC 89-2019 : GUIDELINES FOR DESIGNING AND CONSTRUCTION OF RIVER TRAINING AND CONTROL WORKS FOR ROAD BRIDGES.
 IRC SP 13-2022 : GUIDE LINES FOR THE DESIGN OF SMALL BRIDGES AND CULVERTS

MATERIAL SPECIFICATIONS

ONLY DESIGN MIX CONCRETE SHALL BE USED IN THE WORK FOR STRUCTURAL MEMBERS AS PER IS:10262. THE GRADE OF CONCRETE FOR VARIOUS COMPONENTS OF THE PROJECT SHALL BE AS FOLLOWS:-

- LEVELING COARSE : M 15
 BOX STRUCTURE : M 85
 PCC CURTAIN WALL : M 20
 CRASH BARRIER : M 40
 RETAINING WALL : M 30

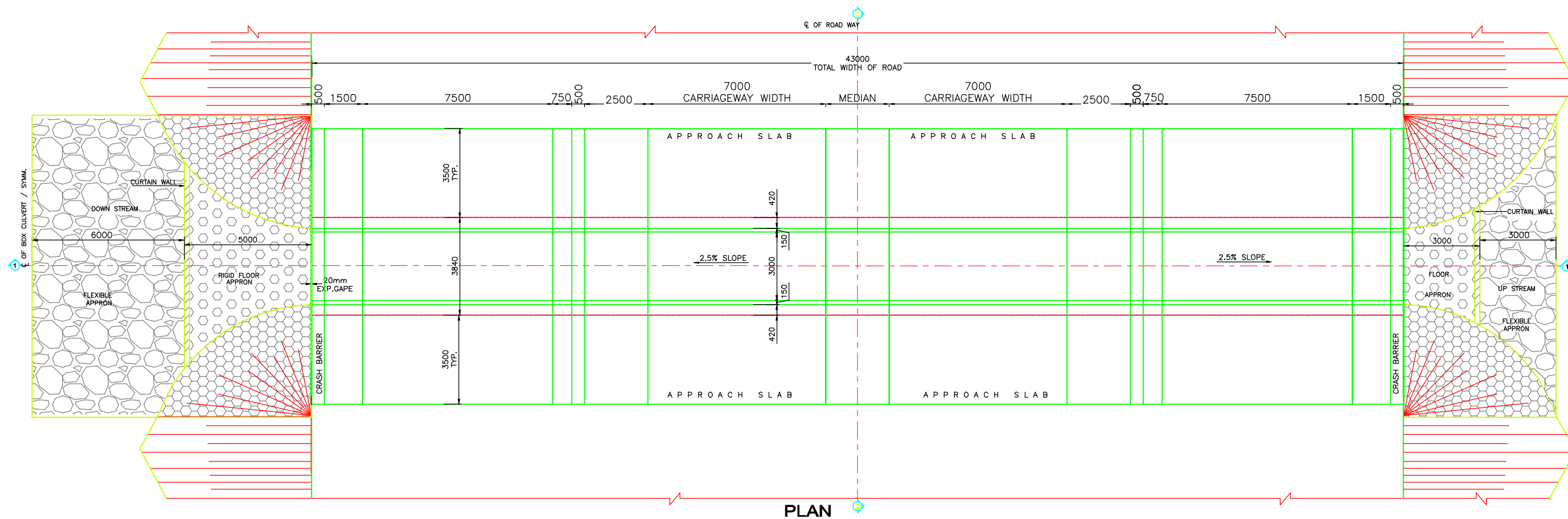
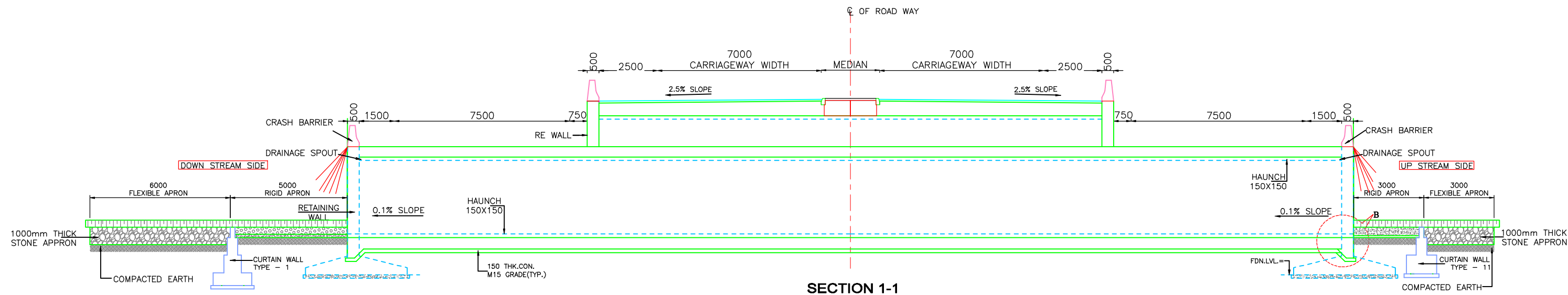
CLEAR COVER TO REINFORCEMENT BOX STRUCTURE

- TOP SLAB : 45MM
 BOTTOM SLAB : 75MM
 SIDE WALL ERATH FACE : 75MM
 SIDE WALL INNER FACE : 45MM
 CRASH BARRIER : 40MM

- ALL DIMENSION ARE IN MILLIMETERS. AND LEVELS ARE IN METERS UNLESS MENTIONED OTHERWISE SPECIFIED.
- THE DRAWING ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS AND LEVELS ARE FOLLOWED.
- THIS DRAWING SHOULD BE CHECKED WITH RESPECT TO SITE CONDITIONS. IN CASE OF ANY DISCREPANCY, IT SHOULD BE BROUGHT TO THE NOTICE OF DESIGN OFFICE BEFORE STARTING THE WORK.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY DRAWINGS FOR F.R.L OF MAIN CARRIAGEWAY.
- DESIGN LOAD SHALL BE AS PER IRC-6-2017 STRUCTURE TO BE DESIGNED FOR 70R VEHICLE, CLASS A VEHICLE & SPECIAL VEHICLE LOADING AS PER TABLE 6.
- ACTUAL LENGTH OF APPROACHES SHALL BE ADJUSTED AS PER SITE CONDITIONS AND PLAN & PROFILE.
- GUIDE WALL SHALL BE PROVIDED WHERE EVER THE STREAM CURVES. TO PROTECT THE FIELD / EMBANKMENT.
- 600 mm THK FILTER MEDIA BEHIND RETAINING WALL & BOX CULVERT WALL SHALL BE PROVIDED AS PER IRC-78-2024.
- LOOSE/UNSUITABLE SOIL BELOW BOX CULVERTS SHALL BE REPLACED WITH GRANULAR SOIL/SAND AND COMPACTED AS PER MORTH SPECIFICATION.
- DIVERSION ROADS SHALL BE PROVIDED AS PER SITE CONDITIONS REQUIREMENT.
- SBC SHALL BE CONFIGURED AT SITE BEFORE EXECUTING THE WORK.
- THE REINFORCEMENT SHALL BE HYSD, BARS OF GRADE DESIGNATION Fe550 D/550 D CONFIRMING TO IS:1786-2008.
- DRAINAGE SPOUT SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS.
- IN ORDER TO ENSURE THE SAFETY OF RAFT FOUNDATION. THE PROTECTIVE WORKS SHALL BE COMPLETED BEFORE THE FLOODS SO THAT THE FOUNDATION DOES NOT GET UNDERMINED.
- WEEP HOLES OF 100 MM DIA OF PVC PIPE 6KG/SQCM @ 1.00 METERS C/C 1 IN 20 LOPES (STAGGERED) TO BE PROVIDED IN WALL FROM 500MM ABOVE BED LEVEL.
- THE SELECTED EARTH FILL USED FOR BACKFILLING BEHIND WALL SHALL HAVE THE FOLLOWING PROPERTIES:-
 C-00 @ $\geq 90^\circ$ DRY DENSITY = 18 KV/MB
- THE TOP OF BOTTOM RAFT SHALL BE KEPT MINIMUM 300mm BELOW LOWEST GROUND LEVEL. HOWEVER, CHANGE IN CLEAR HEIGHT OF THE RCC BOX SHALL NOT BE MORE THAN 500mm.
- 'DK' IS DEPTH OF KEY AT BASE SLAB.
 FOR BASE SLAB THICKNESS
 UP TO 900mm
 GREATER THAN 900mm
 VALUE OF 'DK'
 1200mm
 +900
- REFER SEPARATE DRAWING FOR RETAINING WALL.



					CHECKED BY : VVS RAMAKRISHNA K	CLIENT :		PROJECT :	CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRUCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.
					DESIGNED BY : T.M. MURLI			TITLE :	GENERAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.5x1.5 M AT CH-8+155
					DRAWN BY : IRSHAD KHAN	CHAINAGE : -	DATE:- AUG. - 2024	Consultant	Theme Engineering Services Pvt. Ltd. DRG. NO. : TEBNH-248/STR/01
					APPROVED BY : D.K.GUPTA		REVISION :- R-1		
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED			SCALE :-		



					CHECKED BY : VVS RAMAKRISHNA K	<div><div>CLIENT :</div><div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF RECON. OF SPAN 1X3.0X2.0M AT CH-25+580		
					DRAWN BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/06		
					APPROVED BY : D.K.GUPTA		B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724485-86-87, Telefax : +91-141-2724481 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com		
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		CHAINAGE : -	DATE:- AUG. - 2024		
							REVISION :- R-1	SCALE :-	

NOTES:

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

- IRC 112-2020 : CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
IRC: 5-2015 (SEC I) : GENERAL FEATURES OF DESIGN.
IRC: 6-2017 (SEC II) : LOADS AND STRESSES.
IRC: 78-2024 : FOUNDATIONS AND SUBSTRUCTURES.
IRC: 89-2019 : GUIDELINES FOR DESIGNING AND CONSTRUCTION OF RIVER TRAINING AND CONTROL WORKS FOR ROAD BRIDGES.
IRC: SP 13 -2022 : GUIDE LINES FOR THE DESIGN OF SMALL BRIDGES AND CULVERTS

MATERIAL SPECIFICATIONS

ONLY DESIGN MIX CONCRETE SHALL BE USED IN THE WORK FOR STRUCTURAL MEMBERS AS PER IS:10262. THE GRADE OF CONCRETE FOR VARIOUS COMPONENTS OF THE PROJECT SHALL BE AS FOLLOWS: -

- LEVELING COARSE : M 15
BOX STRUCTURE : M 35
PCC CURTAIN WALL : M 20
CRASH BARRIER : M 40
RETAINING WALL : M 30

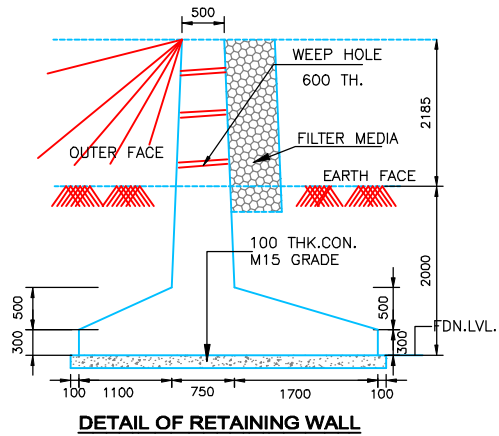
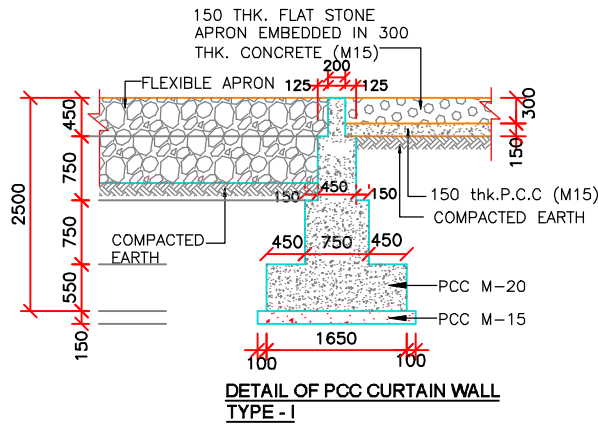
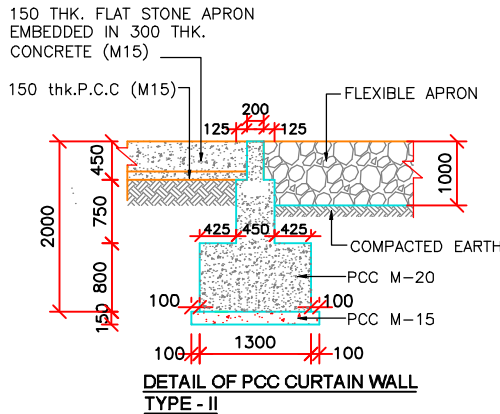
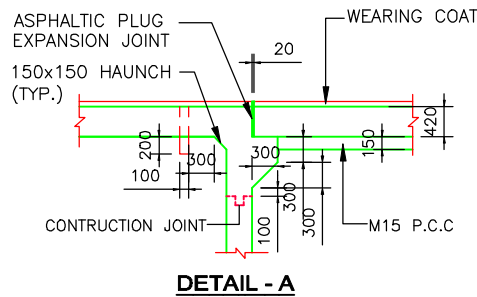
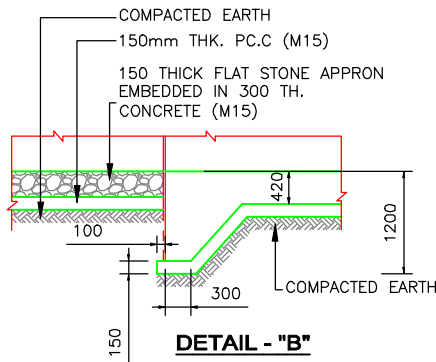
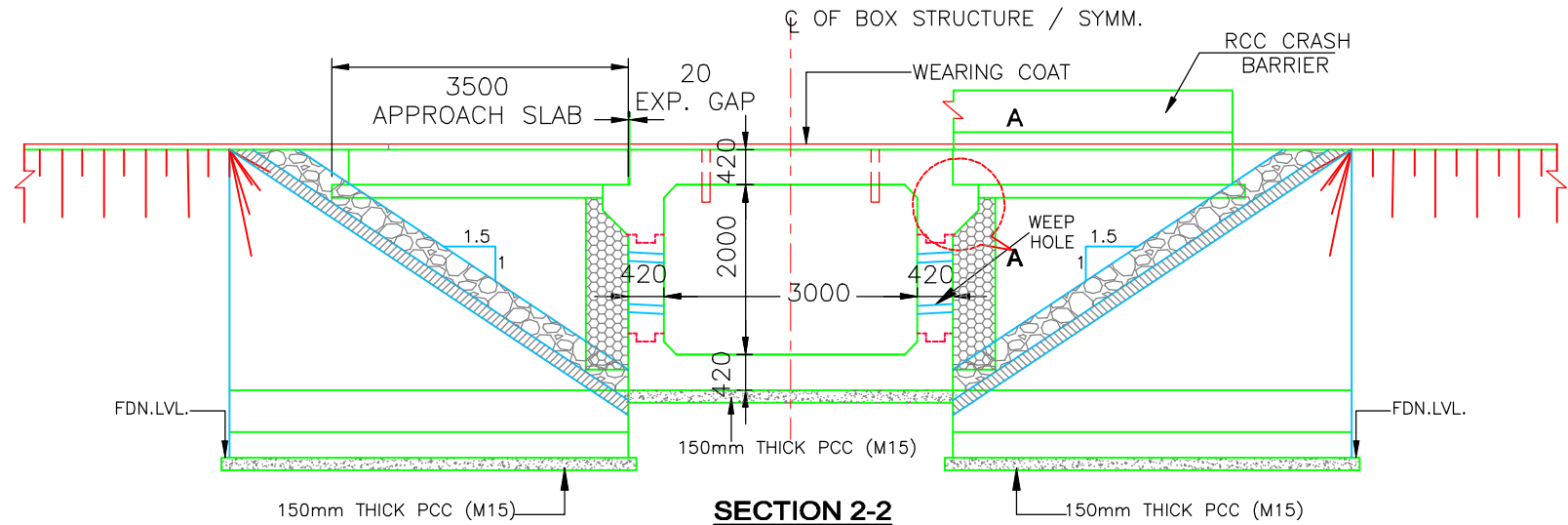
CLEAR COVER TO REINFORCEMENT BOX STRUCTURE

- TOP SLAB : 45MM
BOTTOM SLAB : 75MM
SIDE WALL ERATH FACE : 75MM
SIDE WALL INNER FACE : 45MM
CRASH BARRIER : 40MM

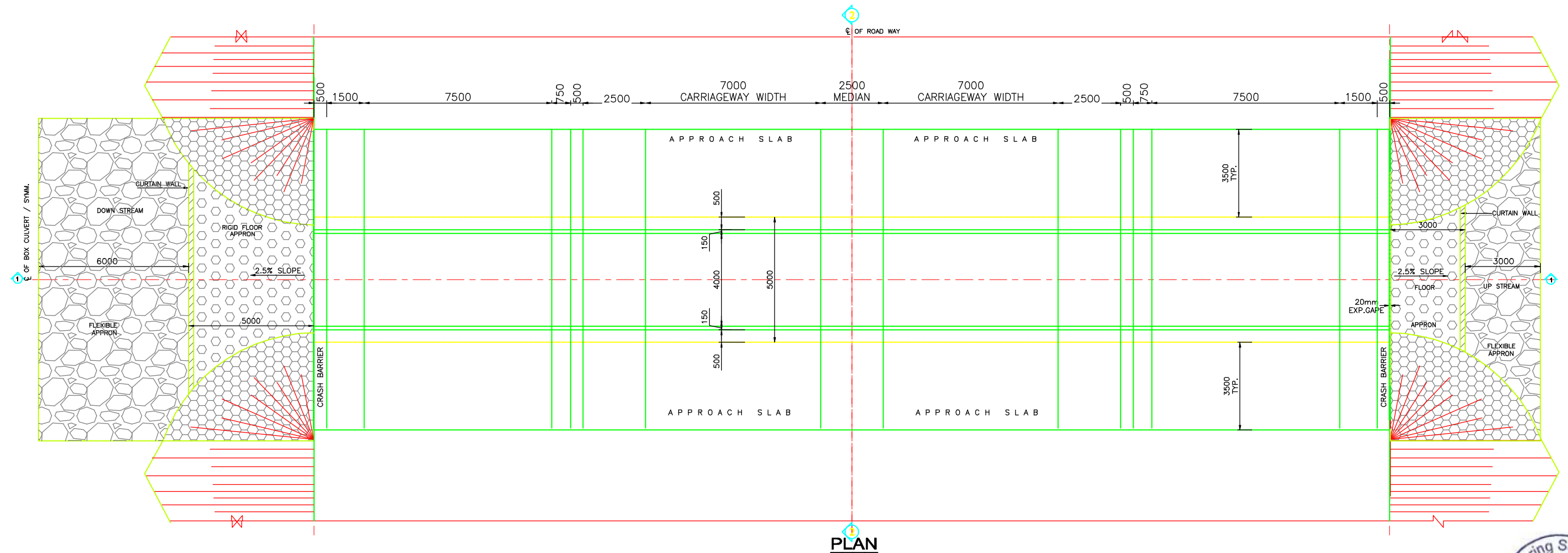
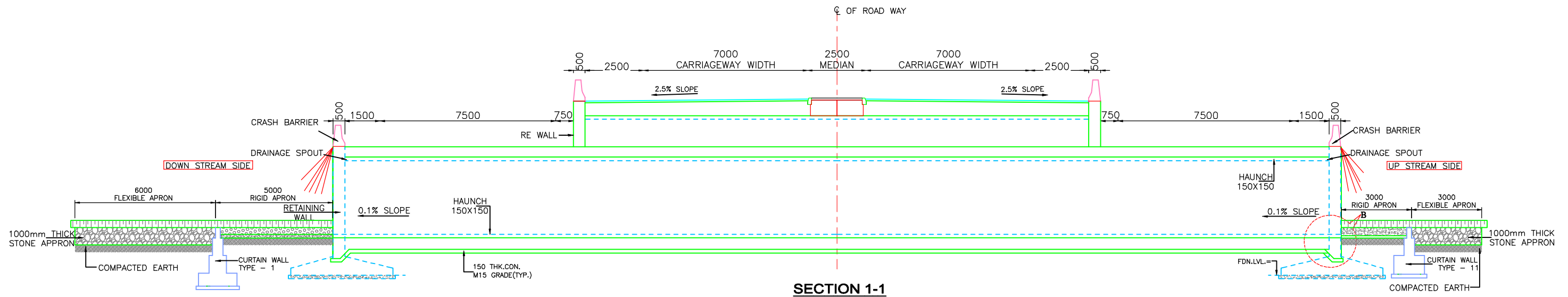
1. ALL DIMENSION ARE IN MILLIMETERS. AND LEVELS ARE IN METERS UNLESS MENTIONED OTHERWISE SPECIFIED.
2. THE DRAWING ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS AND LEVELS ARE FOLLOWED.
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4. THIS DRAWING IS TO BE READ IN CONIUNCTION WITH RELEVANT HIGHWAY DRAWINGS FOR F.R.L OF MAIN CARRIAGEWAY.
5. DESIGN LOAD SHALL BE AS PER IRC:6-2017 STRUCTURE TO BE DESIGNED FOR 70R VEHICLE, CLASS A VEHICLE & SPECIAL VEHICLE LOADING AS PER TABLE 6.
6. ACTUAL LENGTH OF APPROACHES SHALL BE ADJUSTED AS PER SITE CONDITIONS AND PLAN & PROFILE.
7. GUIDE WALL SHALL BE PROVIDED WHERE EVER THE STREAM CURVES. TO PROTECT THE FIELD /EMBANKMENT.
8. 600 mm THK FILTER MEDIA BEHIND RETAINING WALL & BOX CULVERT WALL SHALL BE PROVIDED AS PER IRC:78-2024.
9. LOOSE/UNSUITABLE SOIL BELOW BOX CULVERTS SHALL BE REPLACED WITH GRANULAR SOIL/SAND AND COMPACTED AS PER MORTH SPECIFICATION.
10. DIVERSION ROADS SHALL BE PROVIDED AS PER SITE CONDITIONS REQUIREMENT.

11. SBC SHALL BE CONFIGURED AT SITE BEFORE EXECUTING THE WORK.
12. THE REINFORCEMENT SHALL BE HYSD, BARS OF GRADE DESINATION Fe550 D/550 D CONFIRMING TO IS:1786-2008.
13. DRAINAGE SPOUT SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS.
14. IN ORDER TO ENSURE THE SAFETY OF RAFT FOUNDATION. THE PROTECTIVE WORKS SHALL BE COMPLETED BEFORE THE FLOODS SO THAT THE FOUNDATION DOES NOT GET UNDERMINED.
15. WEEP HOLES OF 100 MM DIA OF PVC PIPE 6KG/SQCM @ 1.00 METERS C/C 1 IN 20 LOPES (STAGGERED) TO BE PROVIDED IN WALL FROM 500MM ABOVE BED LEVEL.
16. THE SELECTED EARTHFILL USED FOR BACKFILLING BEHIND WALL SHALL HAVE THE FOLLWING PROPERTIES: -
C=00 $\phi \geq 30^\circ$ DRY DENSITY = 18 KN/M3
17. THE TOP OF BOTTOM RAFT SHALL BE KEPT MINIMUM 300mm BELOW LOWEST GROUND LEVEL. HOWEVER, CHANGE IN CLEAR HEIGHT OF THE RCC BOX SHALL NOT BE MORE THAN 500mm.
18. 'DK' IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS
UP TO 900mm
GREATER THAN 900mm
19. REFER SEPARATE DRAWING FOR RETAINING WALL.

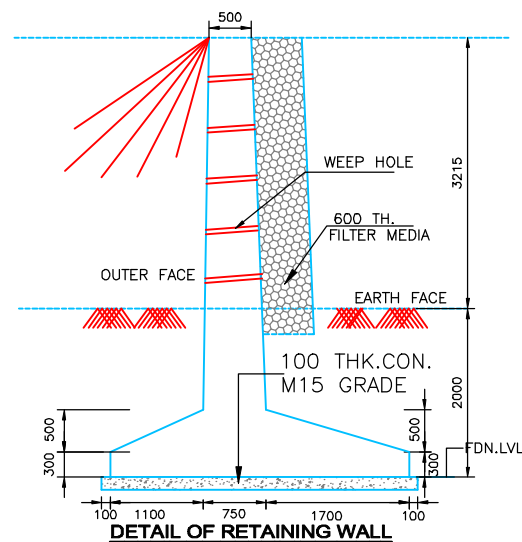
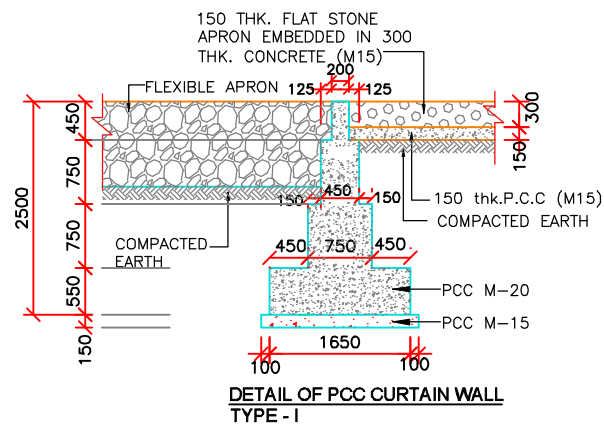
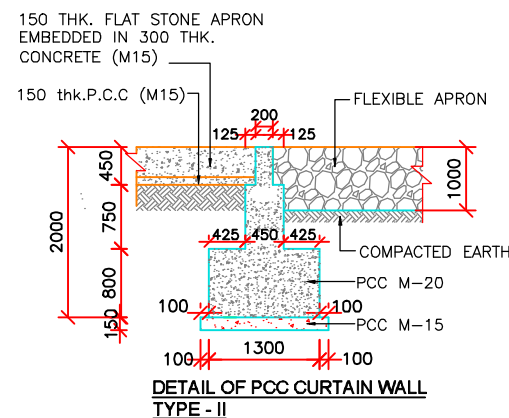
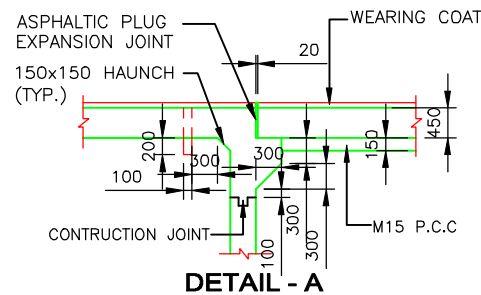
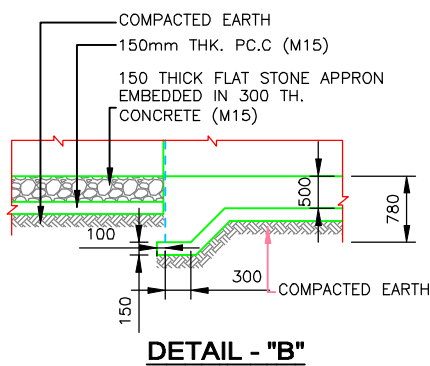
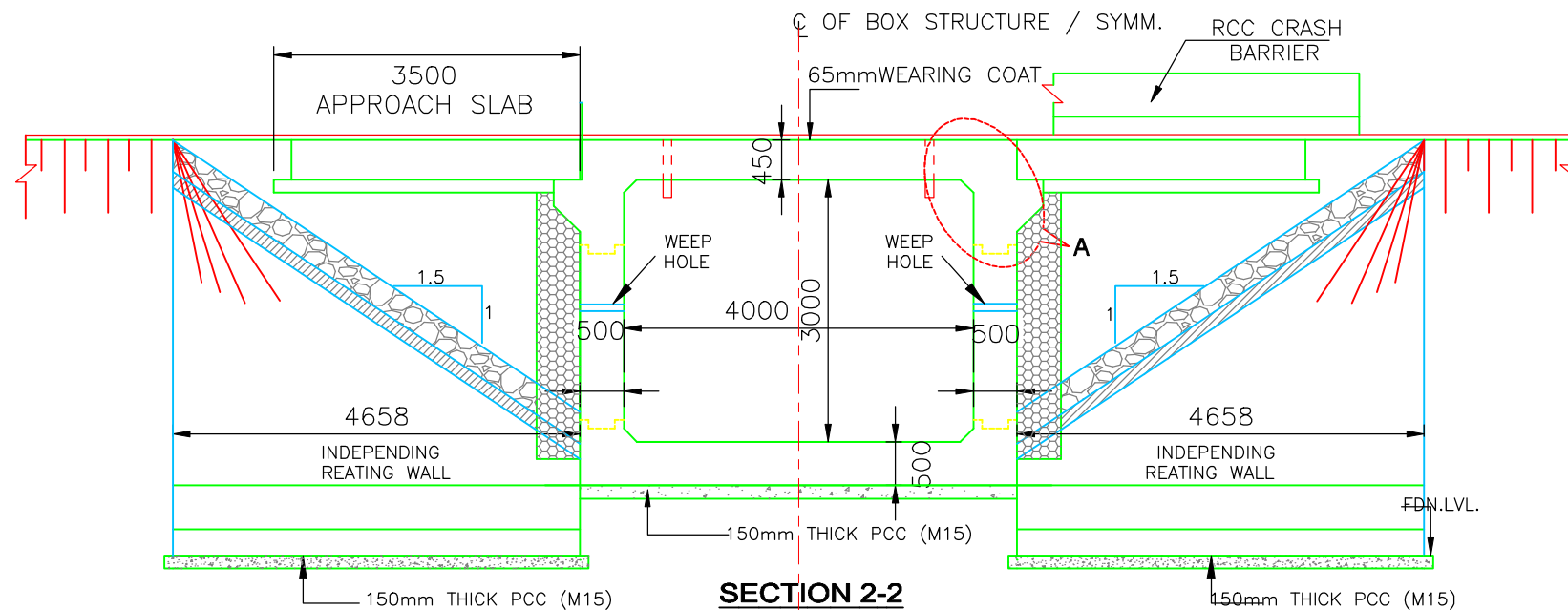
VALUE OF 'DK'
1200mm
+300



					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.						
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF RECON. OF SPAN 1X3.0X2.0M AT CH-25+580						
					DRAWN BY : IRSHAD KHAN		CHAINAGE : -	DATE:- AUG. - 2024					
					APPROVED BY : D.K.GUPTA			SCALE :-					
REV.	ISSUED	DESCRIPTION			CHECKED	APPROVED	REVISION :- R-1		Consultant  Theme Engineering Services Pvt. Ltd. B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com			DRG. NO. : TES/NH-248/STR/06	



					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.				
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x4.0x3.0M AT CH-11+580				
					DRAWN BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/02				
					APPROVED BY : D.K.GUPTA		CHAINAGE : -	DATE:- AUG. - 2024		REVISION :- R-1	
REV.	ISSUED	DESCRIPTION			CHECKED	APPROVED					



NOTES:

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

IRC 112-2020	: CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
IRC: 5-2015 (SEC I)	: GENERAL FEATURES OF DESIGN.
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MATERIAL SPECIFICATIONS

ONLY DESIGN MIX CONCRETE SHALL BE USED IN THE WORK FOR STRUCTURAL MEMBERS AS PER IS:10262. THE GRADE OF CONCRETE FOR VARIOUS COMPONENTS OF THE PROJECT SHALL BE AS FOLLOWS:-

LEVELING COARSE	: M 15
BOX STRUCTURE	: M 35
PCC CURTAIN WALL	: M 20
CRASH BARRIER	: M 40
RETAINING WALL	: M 30

CLEAR COVER TO REINFORCEMENT BOX STRUCTURE

TOP SLAB	: 45MM
BOTTOM SLAB	: 75MM
SIDE WALL ERATH FACE	: 75MM
SIDE WALL INNER FACE	: 45MM
CRASH BARRIER	: 40MM

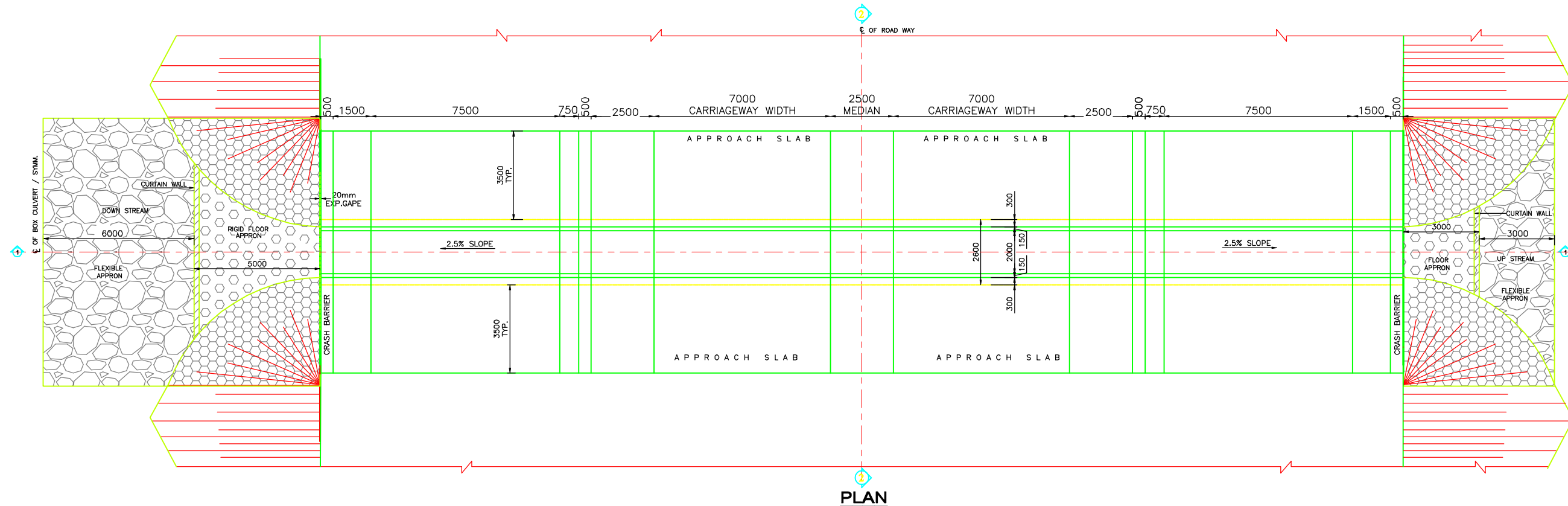
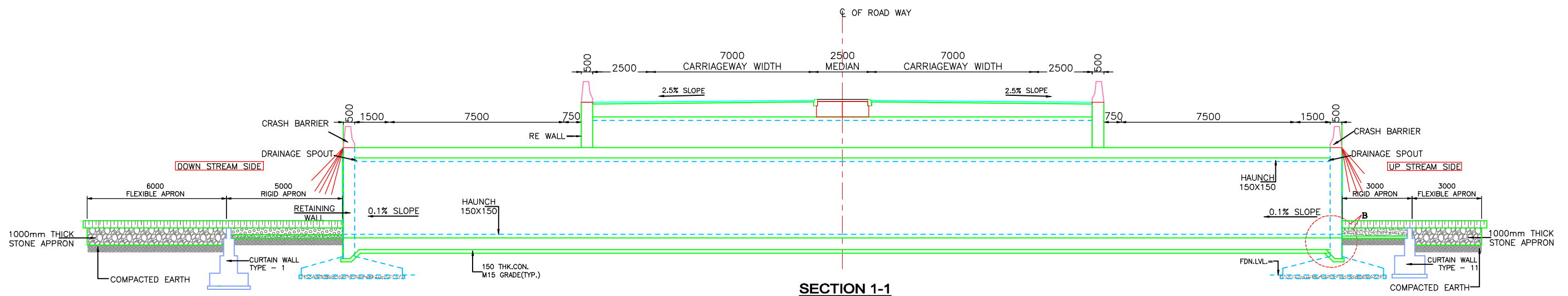
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- DESIGN LOAD SHALL BE AS PER IRC:6-2017 STRUCTURE TO BE DESIGNED FOR 70R VEHICLE, CLASS A VEHICLE & SPECIAL VEHICLE LOADING AS PER TABLE 6.
- ACTUAL LENGTH OF APPROACHES SHALL BE ADJUSTED AS PER SITE CONDITIONS AND PLAN & PROFILE.
- GUIDE WALL SHALL BE PROVIDED WHERE EVER THE STREAM CURVES. TO PROTECT THE FIELD / EMBANKMENT.
- 600 mm THK FILTER MEDIA BEHIND RETAINING WALL & BOX CULVERT WALL SHALL BE PROVIDED AS PER IRC:78-2024.
- LOOSE/UNSUITABLE SOIL BELOW BOX CULVERTS SHALL BE REPLACED WITH GRANULAR SOIL/SAND AND COMPACTED AS PER MORTH SPECIFICATION.
- DIVERSION ROADS SHALL BE PROVIDED AS PER SITE CONDITIONS REQUIREMENT.

- SBC SHALL BE CONFIGURED AT SITE BEFORE EXECUTING THE WORK.
- THE REINFORCEMENT SHALL BE HYSD, BARS OF GRADE DESIGNATION Fe550 D/550 D CONFIRMING TO IS:1786-2008.
- DRAINAGE SPOUT SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS.
- IN ORDER TO ENSURE THE SAFETY OF RAFT FOUNDATION, THE PROTECTIVE WORKS SHALL BE COMPLETED BEFORE THE FLOODS SO THAT THE FOUNDATION DOES NOT GET UNDERMINED.
- WEEP HOLES OF 100 MM DIA OF PVC PIPE 6KG/SQCM @ 1.00 METERS C/C 1 IN 20 LOPES (STAGGERED) TO BE PROVIDED IN WALL FROM 500MM ABOVE BED LEVEL.
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C=00 $\phi \geq 30^\circ$ DRY DENSITY = 18 KN/M3
- THE TOP OF BOTTOM RAFT SHALL BE KEPT MINIMUM 300mm BELOW LOWEST GROUND LEVEL. HOWEVER, CHANGE IN CLEAR HEIGHT OF THE RCC BOX SHALL NOT BE MORE THAN 500mm.
- 'DK' IS DEPTH OF KEY AT BASE SLAB.
FOR BASE SLAB THICKNESS
UP TO 900mm
GREATER THAN 900mm
VALUE OF 'DK'
1200mm
+300
- REFER SEPARATE DRAWING FOR RETAINING WALL.



					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div> Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.			
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x4.0x3.0M AT CH-11+580			
					DRAWN BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd.			
					APPROVED BY : D.K.GUPTA		DRG. NO. : TES/NH-248/STR/02			
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		CHAINAGE : -	DATE:- AUG. - 2024			
							REVISION :- R-1			SCALE :-
<div>DRG. NO. : TES/NH-248/STR/02</div> <div> Theme Engineering Services Pvt. Ltd. B-24, Gokul Vastika, Jawahar Circle, Jajpur-302017 (Raj.) Phone : +91-141-2724495-86-87, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeonlineindia.com</div>										

Theme Engineering Services Pvt. Ltd.
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					DESIGNED BY : T.M. MURLI		<div>CHAINAGE : -</div> <div>DATE:- AUG. - 2024</div> <div>REVISION :- R-1</div> <div>SCALE :-</div>	<div>TITLE :</div> <div>GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.0x1.5 M AT CH-12+400</div>				
					DRAWN BY : IRSHAD KHAN			<div>Consultant</div> <div> Theme Engineering Services Pvt. Ltd.</div> <div>B-24, Gokul Vatika, Jawahar Circle, Jelpur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div>	<div>DRG. NO. :</div> <div>TES/NH-248/STR/03</div>			
					APPROVED BY : D.K.GUPTA							
REV.	ISSUED	DESCRIPTION			CHECKED	APPROVED						

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

IRC 112-2020	: CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
IRC: 5-2015(SEC1)	: GENERAL FEATURES OF DESIGN.
IRC: 6-2017 (SEC II)	: LOADS AND STRESSES.
IRC: 78-2024	: FOUNDATIONS AND SUBSTRUCTURES.
IRC: 89-2019	: GUIDELINES FOR DESIGNING AND CONSTRUCTION OF RIVER TRAINING AND CONTROL WORKS FOR ROAD BRIDGES.
IRC: SP 13 -2022	: GUIDE LINES FOR THE DESIGN OF SMALL BRIDGES AND CULVERTS

ONLY DESIGN MIX CONCRETE SHALL BE USED IN THE WORK FOR STRUCTURAL MEMBERS AS PER IS:10262. THE GRADE OF CONCRETE FOR VARIOUS COMPONENTS OF THE PROJECT SHALL BE AS FOLLOWS: -

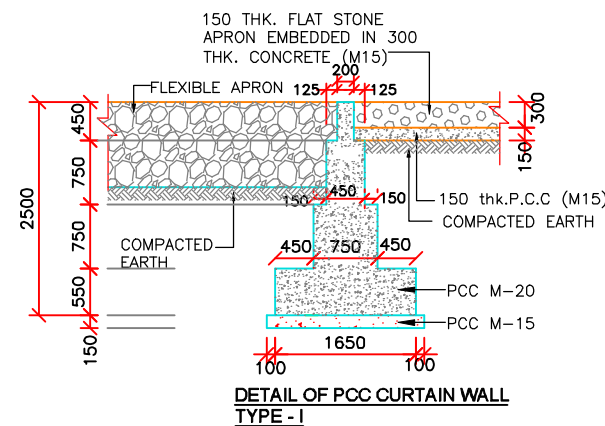
LEVELING COARSE : M 15
BOX STRUCTURE : M 35

PCC CURTAIN WALL : M 20
CRASH BARRIER : M 40
RETAINING WALL : M 30

TOP SLAB	: 45MM
BOTTOM SLAB	: 75MM
SIDE WALL ERATH FACE	: 75MM
SIDE WALL INNER FACE	: 45MM
CRASH BARRIER	: 40MM

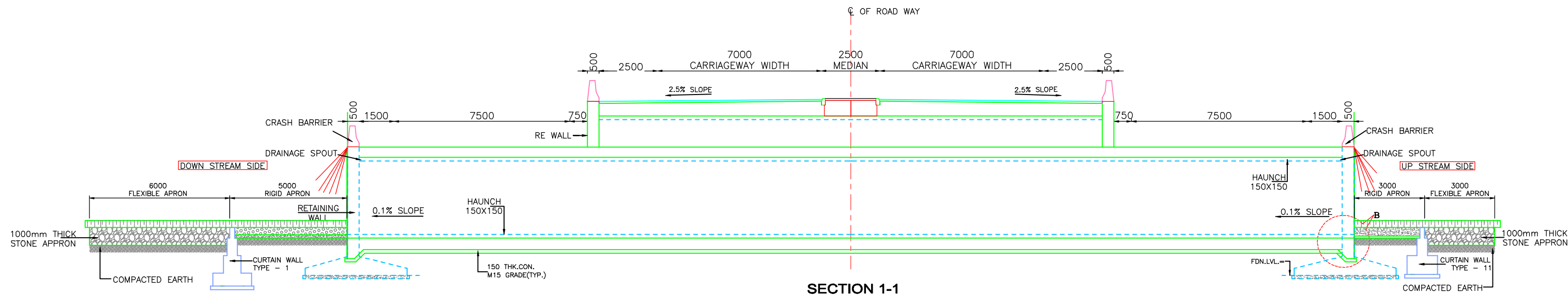
1. ALL DIMENSION ARE IN MILLIMETERS. AND LEVELS ARE IN METERS UNLESS MENTIONED OTHERWISE SPECIFIED.
2. THE DRAWING ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS AND LEVELS ARE FOLLOWED.
3. THIS DRAWING SHOULD BE CHECKED WITH RESPECT TO SITE CONDITIONS. IN CASE OF ANY DISCREPANCY, IT SHOULD BE BROUGHT TO THE NOTICE OF DESIGN OFFICE BEFORE STARTING THE WORK.
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7. GUIDE WALL SHALL BE PROVIDED WHERE EVER THE STREAM CURVES, TO PROTECT THE FIELD /EMBANKMENT.
8. 600 mm THK FILTER MEDIA BEHIND RETAINING WALL & BOX CULVERT WALL SHALL BE PROVIDED AS PER IRC:78-2024.
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10. DIVERSION ROADS SHALL BE PROVIDED AS PER SITE CONDITIONS REQUIREMENT.
11. SBC SHALL BE CONFIGURED AT SITE BEFORE EXECUTING THE WORK.
12. THE REINFORCEMENT SHALL BE HYSD, BARS OF GRADE DESIGNATION Fe550 D/550 D CONFIRMING TO IS:1786-2008.
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14. IN ORDER TO ENSURE THE SAFETY OF RAFT FOUNDATION. THE PROTECTIVE WORKS SHALL BE COMPLETED BEFORE THE FLOODS SO THAT THE FOUNDATION DOES NOT GET UNDERMINED.
15. WEEP HOLES OF 100 MM DIA OF PVC PIPE 6KG/SQCM @ 1.00 METERS C/C IN 20 LOPES (STAGGERED) TO BE PROVIDED IN WALL FROM 500MM ABOVE BED LEVEL.
16. THE SELECTED EARTH FILL USED FOR BACK FILLING BEHIND WALL SHALL HAVE THE FOLLOWING PROPERTIES: -
 $C_{u00} \geq 30^\circ$ DRY DENSITY = 18 KN/M3
17. THE TOP OF BOTTOM RAFT SHALL BE KEPT MINIMUM 300mm BELOW LOWEST GROUND LEVEL. HOWEVER, CHANGE IN CLEAR HEIGHT OF THE RCC BOX SHALL NOT BE MORE THAN 500mm.
18. 'DK' IS DEPTH OF KEY AT BASE SLAB.

FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UP TO 900mm	1200mm
GREATER THAN 900mm	+300
19. REFER SEPARATE DRAWING FOR RETAINING WALL.

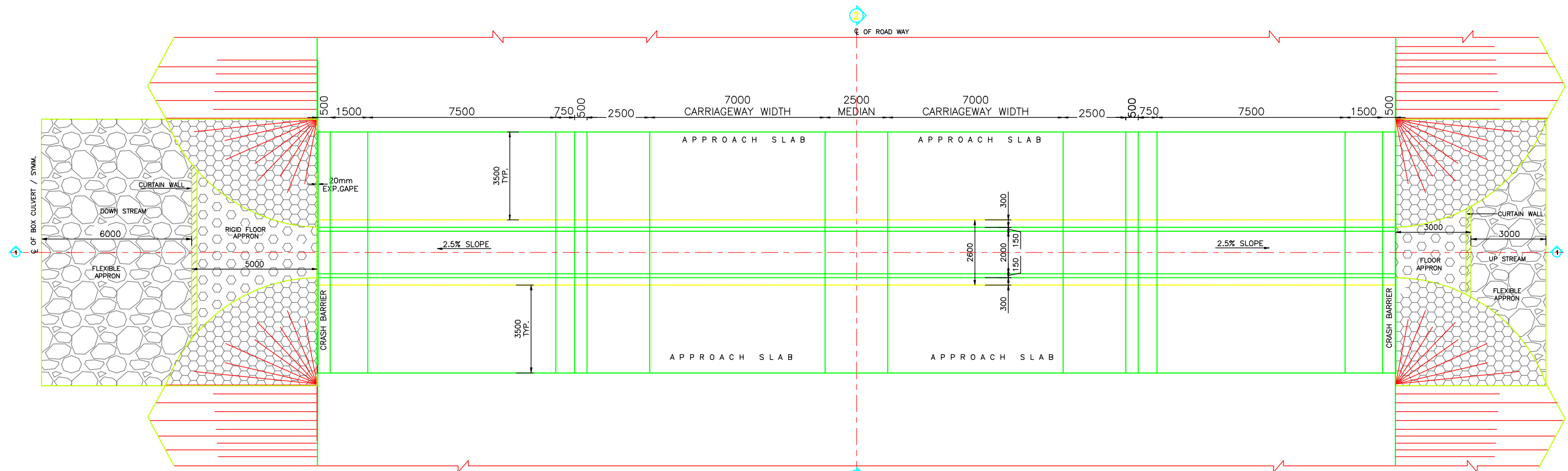


Engineering Services Pvt. Ltd.
Jaipur
Team Leader

					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.0x1.5 M AT CH-12+400		
					DRAWN BY : IRSHAD KHAN		<div>Consultant</div> <div><div>Theme Engineering Services Pvt. Ltd.</div><div>B-24, Gokul Vatika, Jawahar Circle, Jajpur-302017 (Raj.) Phone : +91-141-2724495-98-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div></div>		
					APPROVED BY : D.K.GUPTA				
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		DRG. NO. : TES/NH-248/STR/03			



SECTION 1-1



PLAN



					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.0x2.0 M AT CH-12+500		
					DRAWN BY : IRSHAD KHAN		CHAINAGE : -	DATE:- AUG. - 2024	
					APPROVED BY : D.K.GUPTA			REVISION :- R-1	SCALE :-
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED			<div>Consultant</div> <div>Theme Engineering Services Pvt. Ltd. B-24, Gokul Vatika, Jawahar Circle, Jaiapur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div> <div>DRG. NO. : TES/NH-248/STR/04</div>		

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

IRC 112-2020	: CODE OF PRACTICE FOR CONCRETE ROAD BRIDGES
IRC: 5-2015(SEC1)	: GENERAL FEATURES OF DESIGN.
IRC: 6-2017 (SEC II)	: LOADS AND STRESSES.
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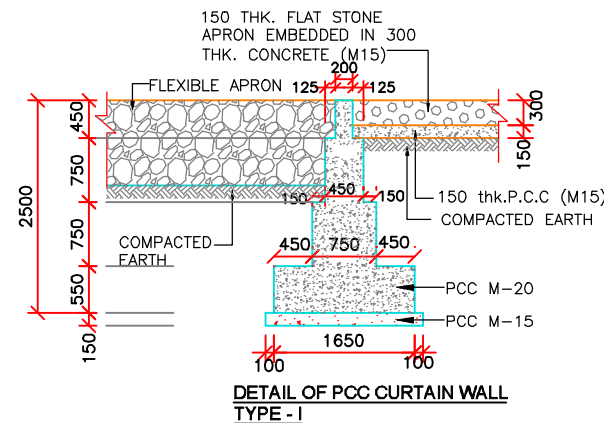
LEVELING COARSE : M 15
BOX STRUCTURE : M 35
PCC CURTAIN WALL : M 20
CRASH BARRIER : M 40
RETAINING WALL : M 30

CLEAR COVER TO REINFORCEMENT BOX STRUCTURE

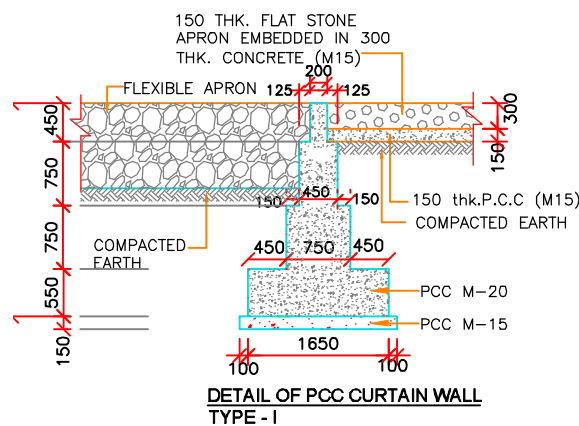
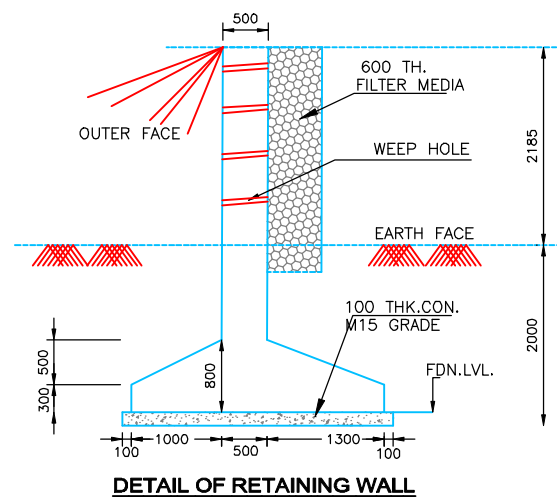
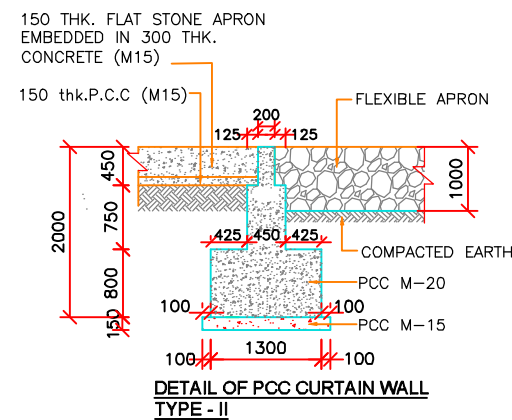
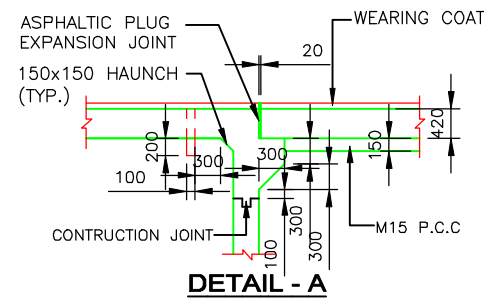
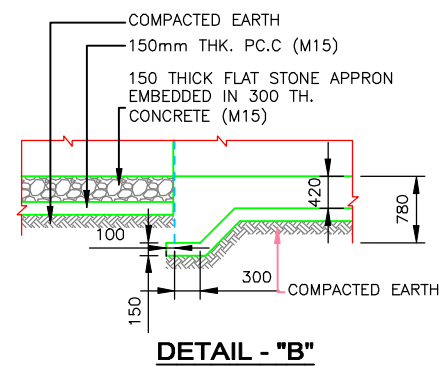
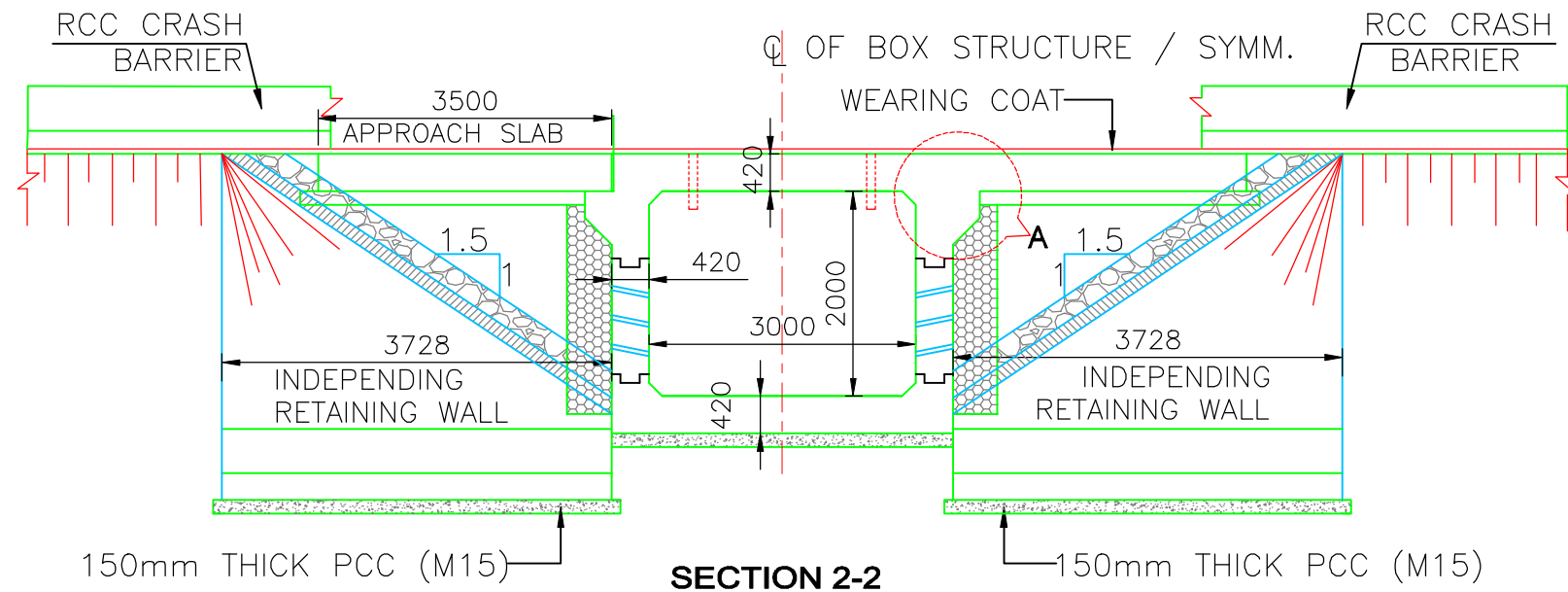
TOP SLAB	: 45MM
BOTTOM SLAB	: 75MM
SIDE WALL ERATH FACE	: 75MM
SIDE WALL INNER FACE	: 45MM
CRASH BARRIER	: 40MM

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FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UP TO 900mm	1200mm
GREATER THAN 900mm	+300
19. REFER SEPARATE DRAWING FOR RETAINING WALL.



				CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div> Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div> <div></div>	<div>PROJECT :</div> <div>CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.</div>					
				DESIGNED BY : T.M. MURLI		<div>TITLE :</div> <div>GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x2.0x2.0 M AT CH-12+500</div>					
				DRAWN BY : IRSHAD KHAN		<div>Consultant</div> <div> Theme Engineering Services Pvt. Ltd. B-24, Gokul Vastha, Jewahar Circle, Jelpur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div>					
				APPROVED BY : D.K.GUPTA		<div>DRG. NO. : TES/NH-248/STR/04</div>					
REV.	ISSUED	DESCRIPTION		CHECKED	APPROVED	CHAINAGE : -		DATE:- AUG. - 2024			
								REVISION :- R-1		SCALE :-	



NOTES:

THE DESIGN AND CONSTRUCTION SHALL CONFORMING TO THE FOLLOWING

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MATERIAL SPECIFICATIONS

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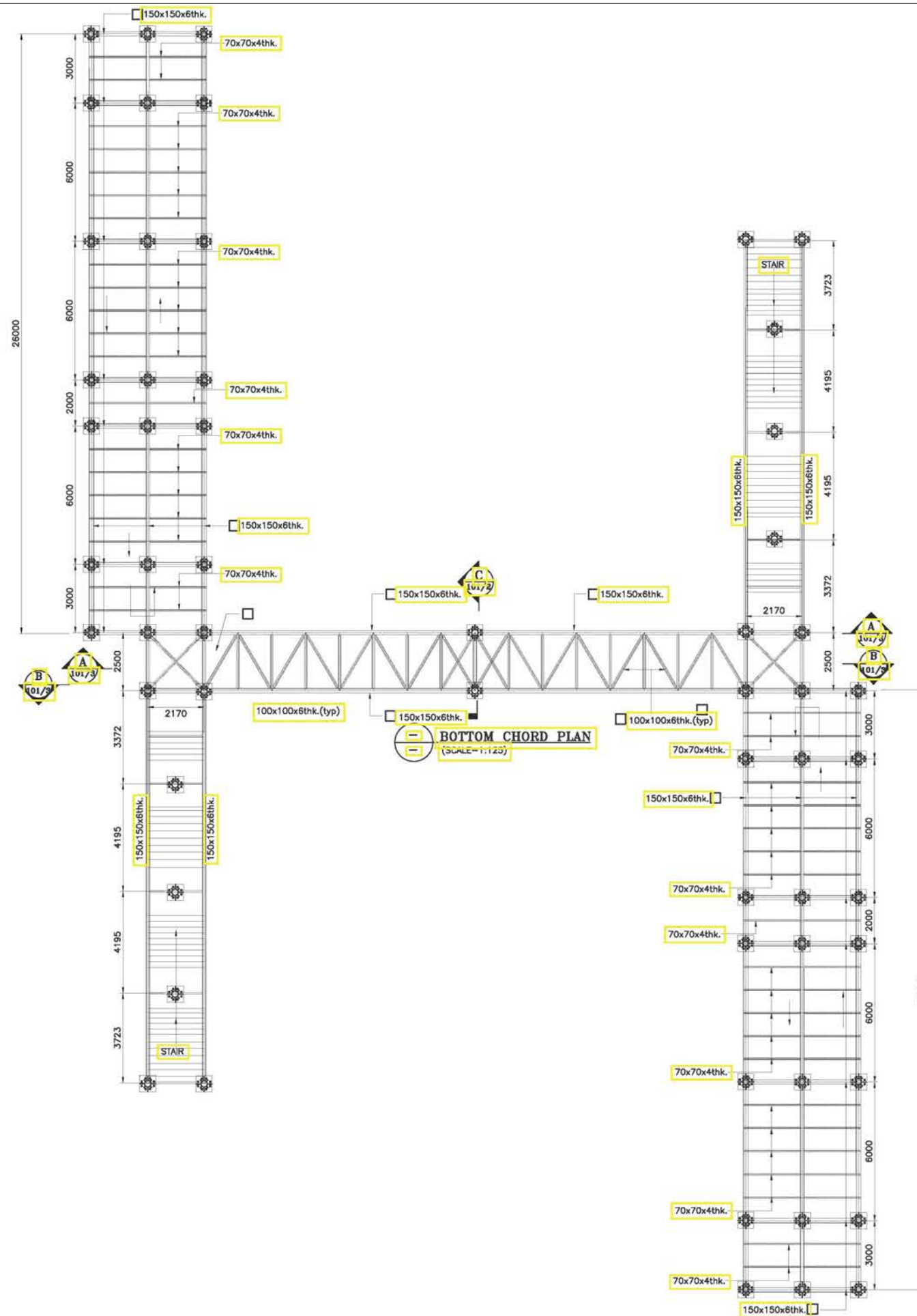
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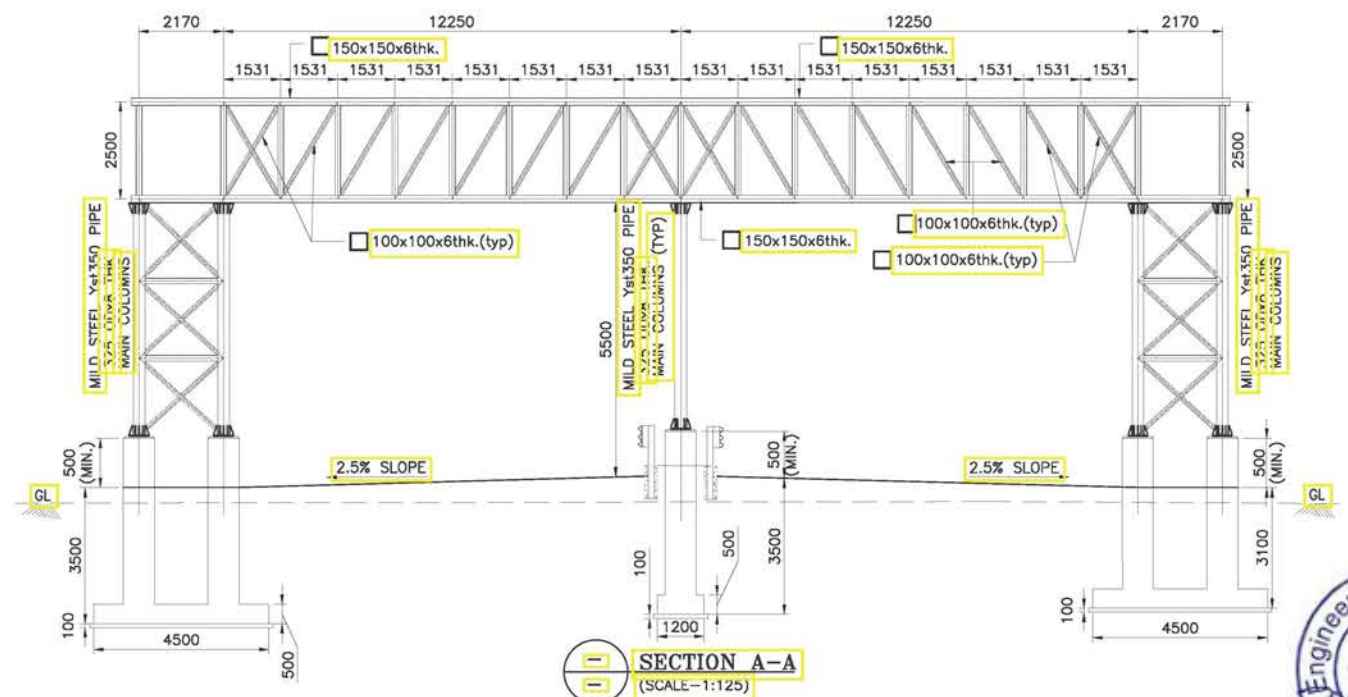
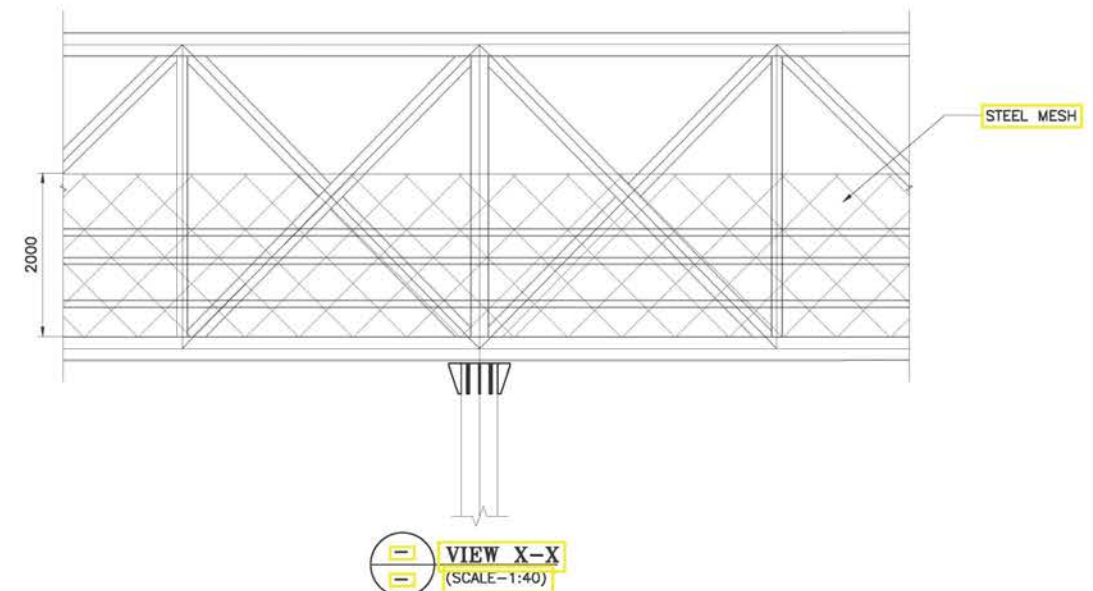
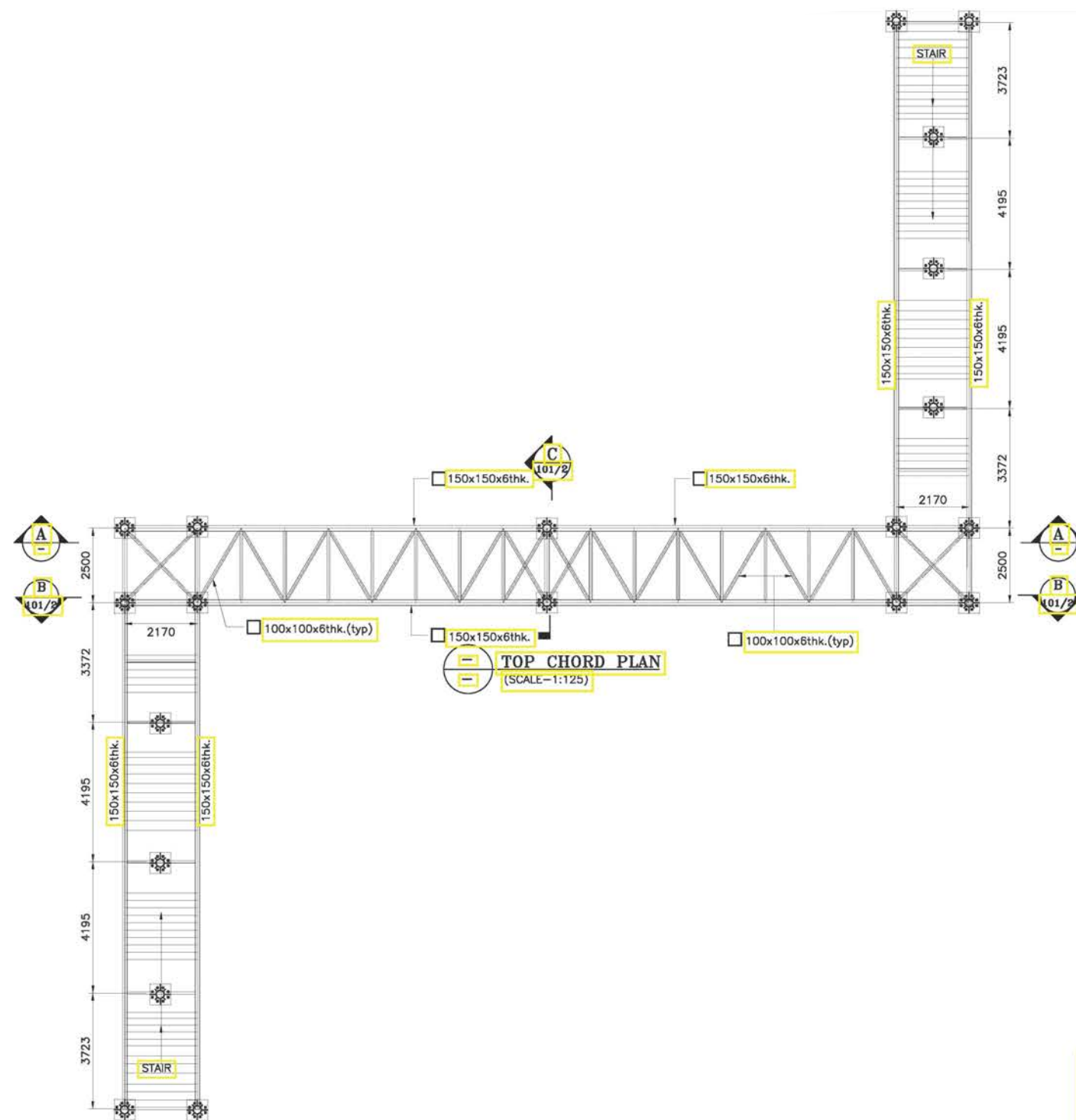
					CHECKED BY : VVS RAMAKRISHNA K	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADE SEPARATED STRCTURE WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF NH-248.		
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING OF BOX CULVERT RECON. OF SPAN 1x3.0x2.0 M AT CH-7+385		
					DRAWN BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/05		
					APPROVED BY : D.K.GUPTA		CHAINAGE : -	DATE:- AUG. - 2024	SCALE :-
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED			REVISION :- R-1		

FOOT OVER BRIDGE

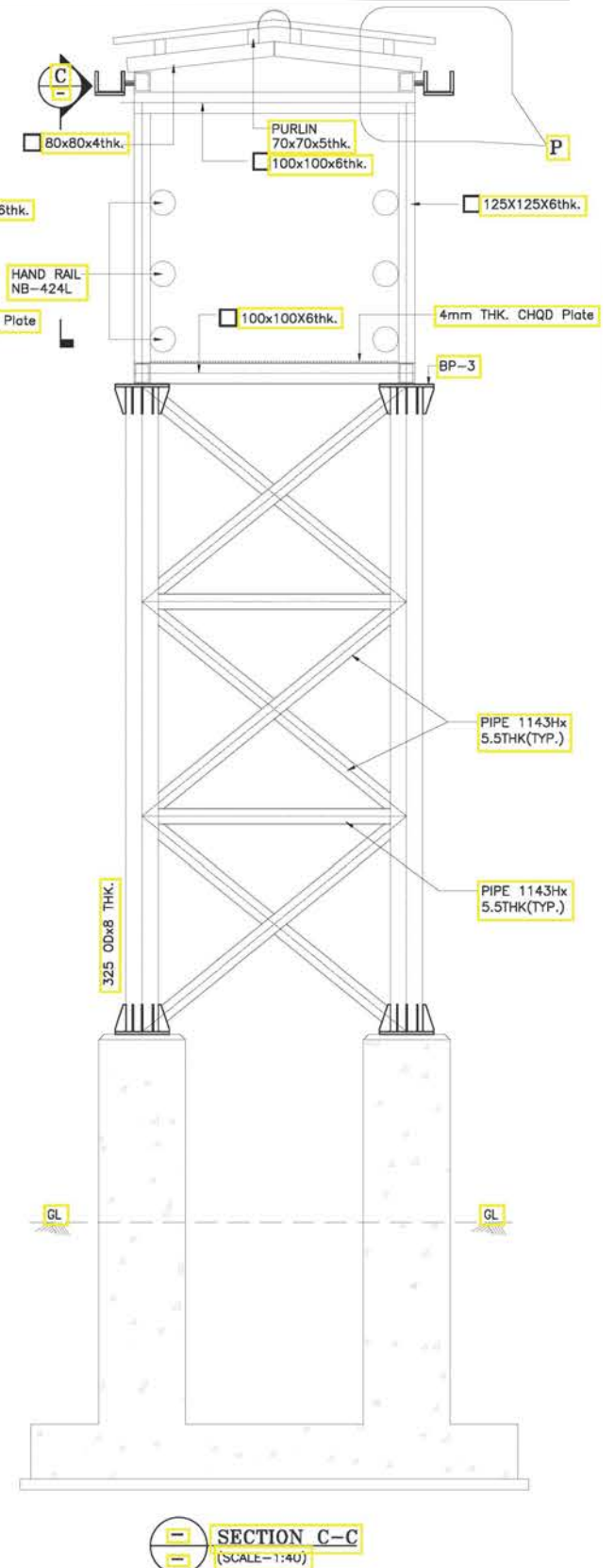
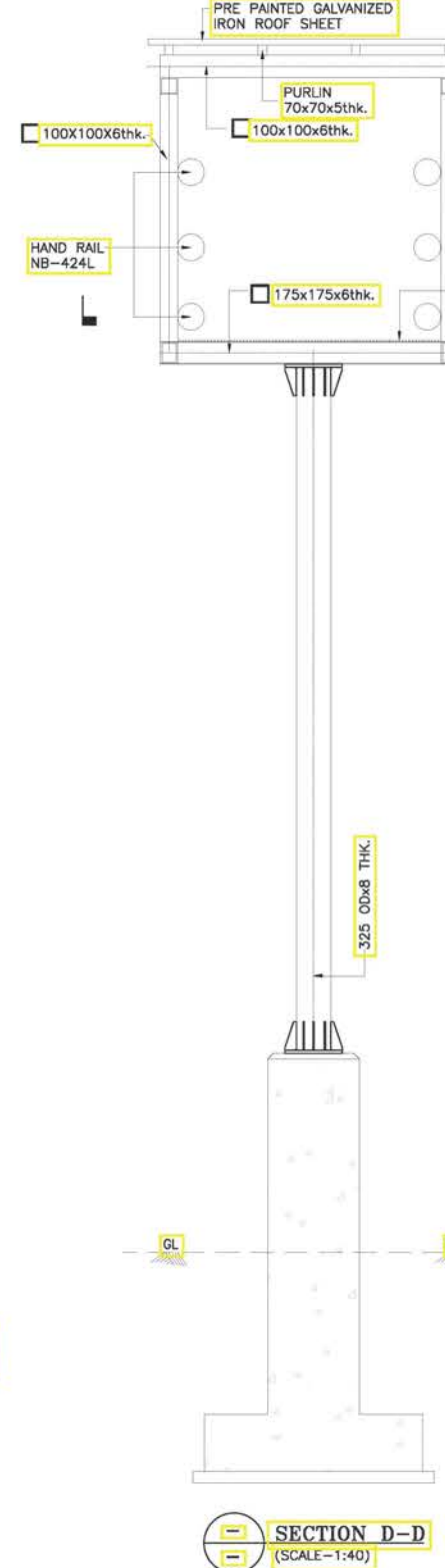
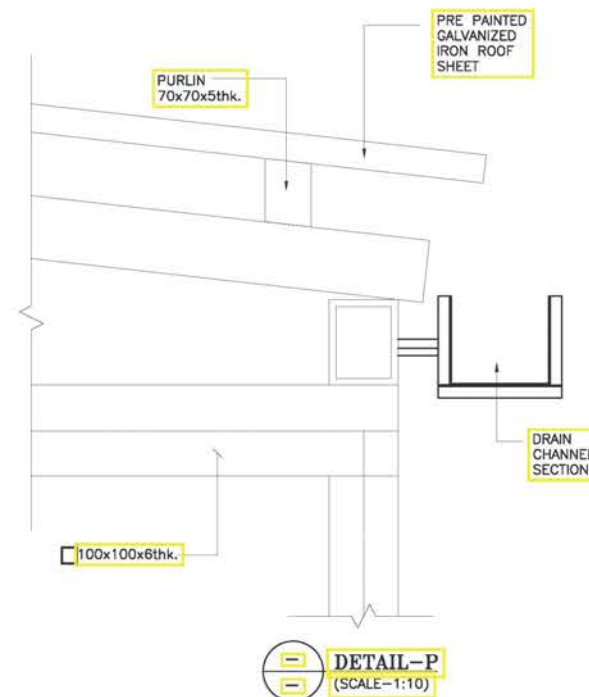
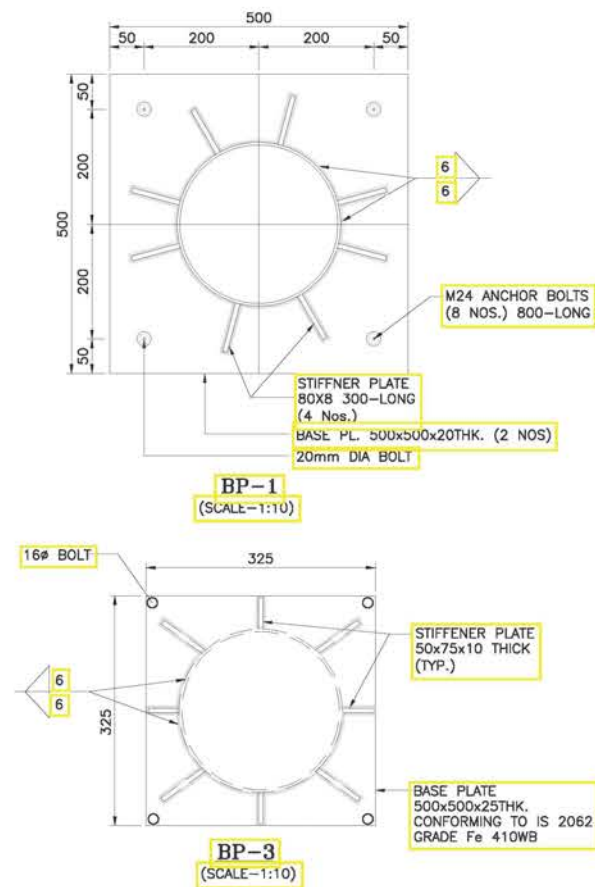
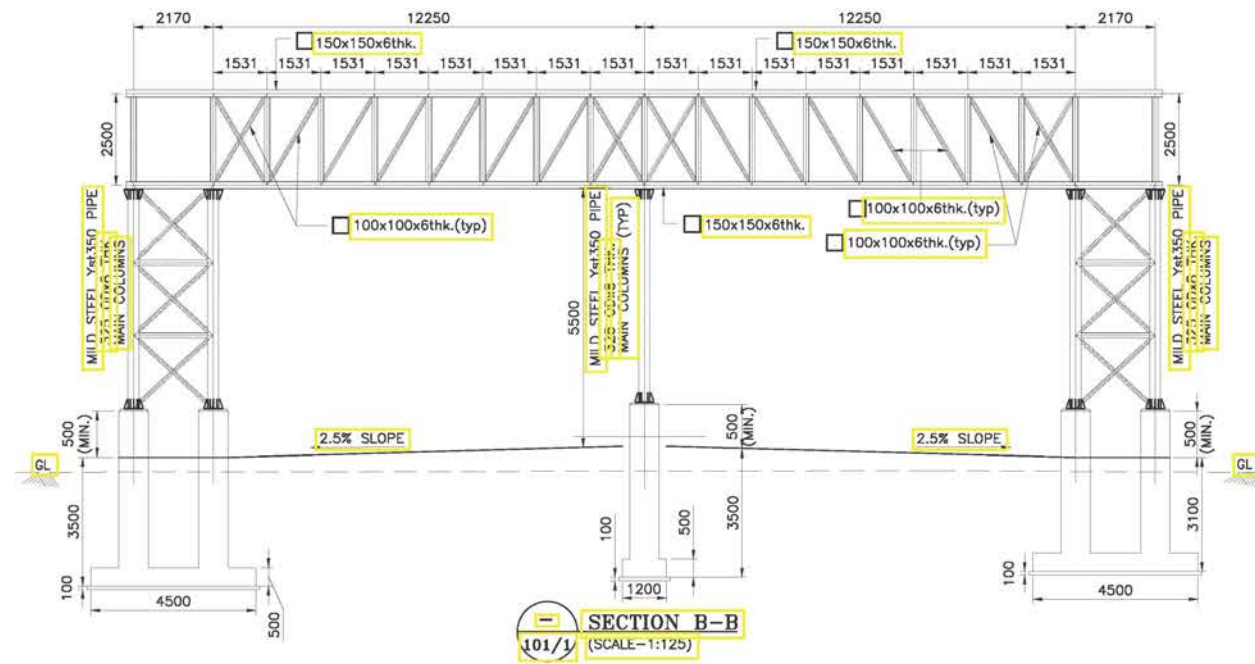




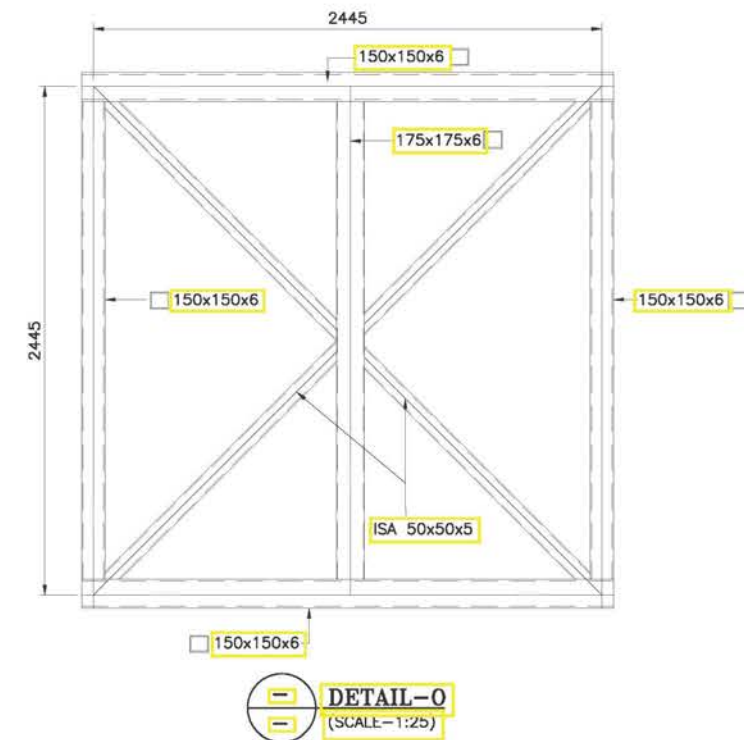
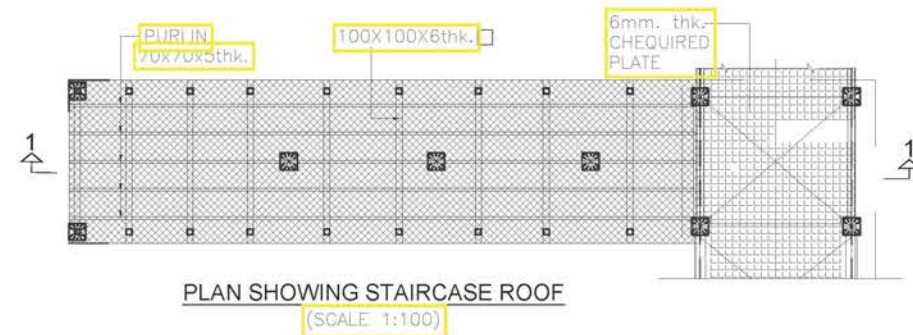
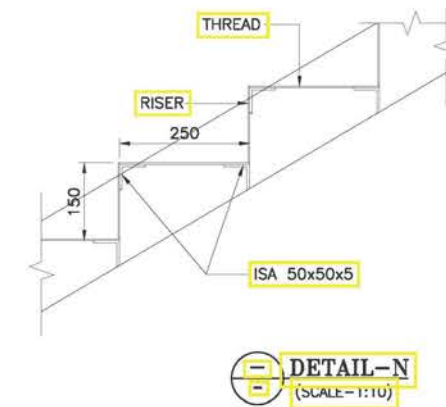
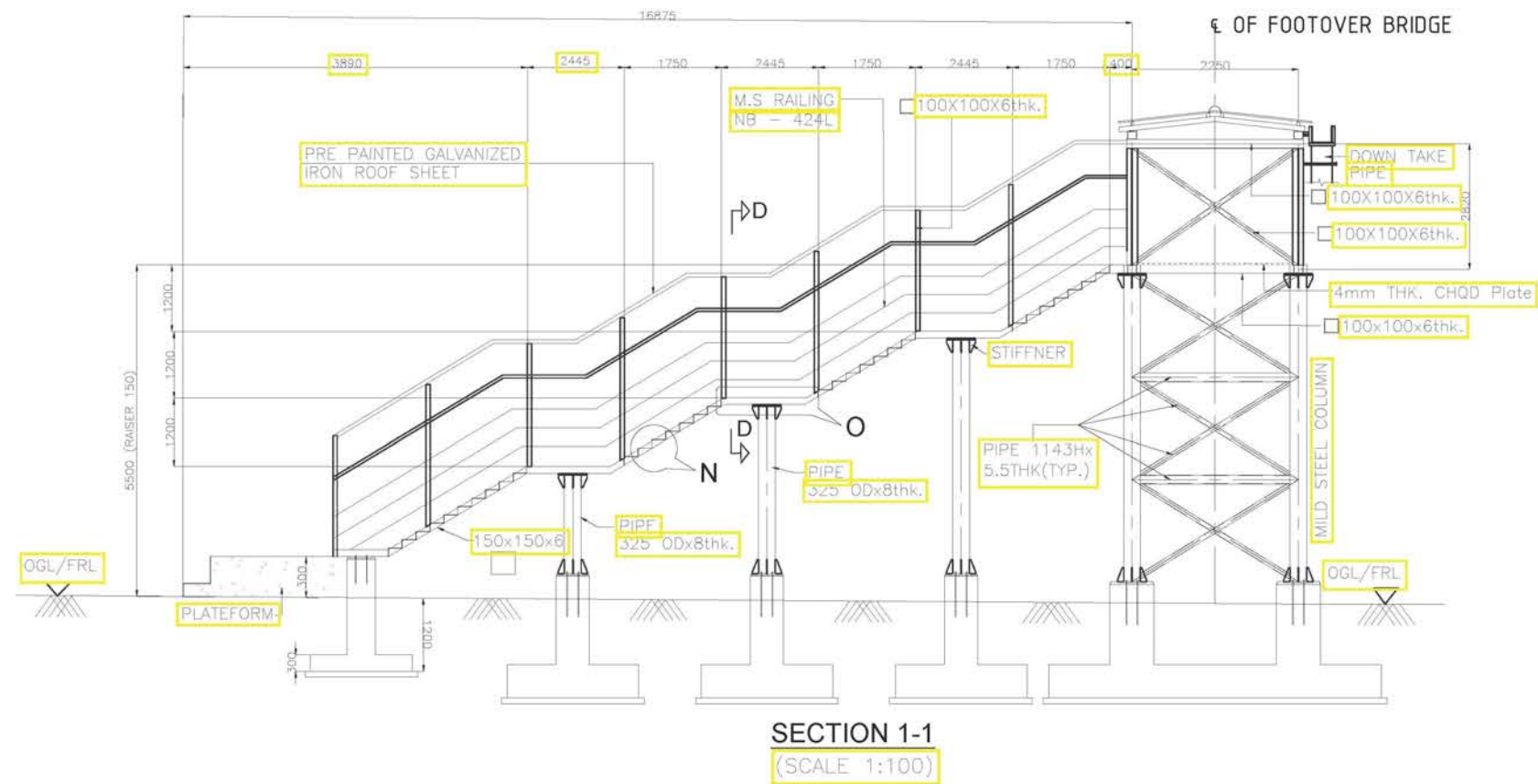
					CHECKED BY : G.K BAGDA	<div>CLIENT :  Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div>	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRAD WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF	
					DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGEAT CH-6+420	
					PREPARE BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/01	
					APPROVED BY :		B-24, Gokul Vastika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com	
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED		CHAINAGE : - 12+840	DATE:- AUG. - 2024	SCALE :-
							REVISION :- R-1	




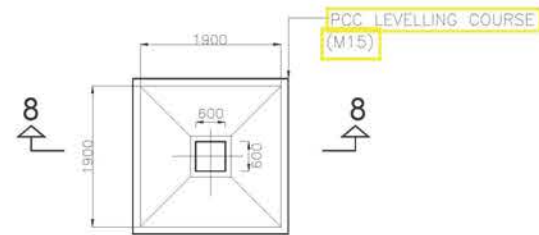
					CHECKED BY : G.K BAGDA	<div>CLIENT :</div> <div><div><div><div><div></div></div><div>PWD</div><div>Public Works Department</div><div>Government of Rajasthan</div></div></div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div></div>	<div>PROJECT :</div> <div>CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRAD WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF</div>		
					DESIGNED BY : T.M. MURLI		<div>TITLE :</div> <div>GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGEAT CH:-6+420</div>		
					PREPARE BY : IRSHAD KHAN		<div>Consultant</div> <div><div><div><div></div></div><div>TES</div><div>Theme Engineering Services Pvt. Ltd.</div></div><div>B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div></div> <div>DRG. NO. : TES/NH-248/STR/02</div>		
					APPROVED BY :		<div>CHAINAGE :</div> <div>- 12+840</div>	<div>DATE:-</div> <div>AUG. - 2024</div>	<div>SCALE :-</div>
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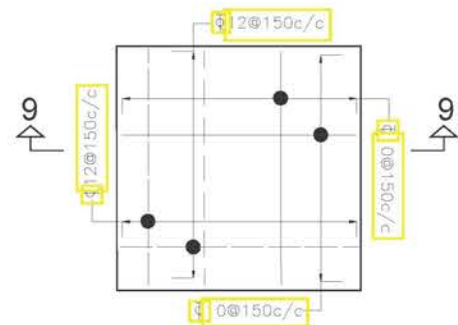
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						DESIGNED BY : T.M. MURLI		TITLE : GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGEAT CH:-6+420		
						PREPARE BY : IRSHAD KHAN		Consultant  Theme Engineering Services Pvt. Ltd. DRG. NO. : TES/NH-248/STR/03		
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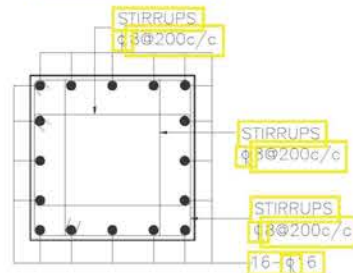
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			DESIGNED BY : T.M. MURLI			TITLE : GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGE AT CH-6+420		
			PREPARE BY : IRSHAD KHAN	CHAINAGE : - 12+840	DATE:- AUG. - 2024	Consultant  Theme Engineering Services Pvt. Ltd. B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax : +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com		
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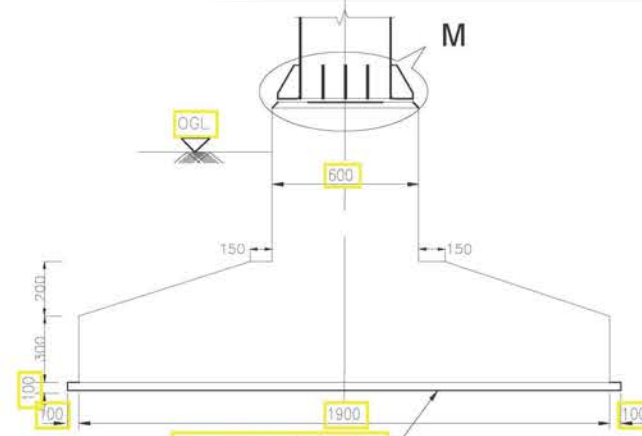
**DIMENSION DETAILS OF
STAIR FOUNDATION (F3)**
(SCALE 1:100)



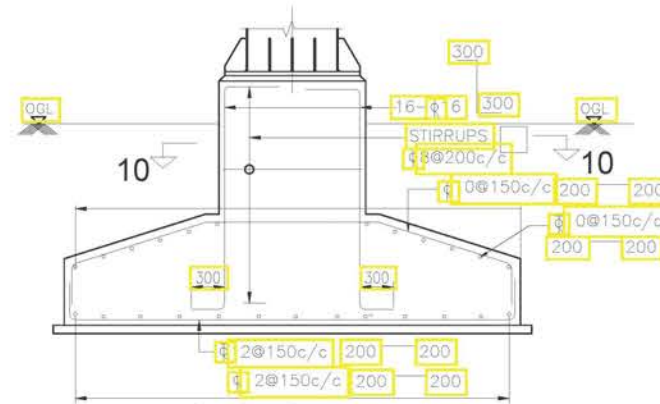
**REINFORCEMENT DETAILS OF
STAIR FOUNDATION (F3)**
(SCALE 1:50)



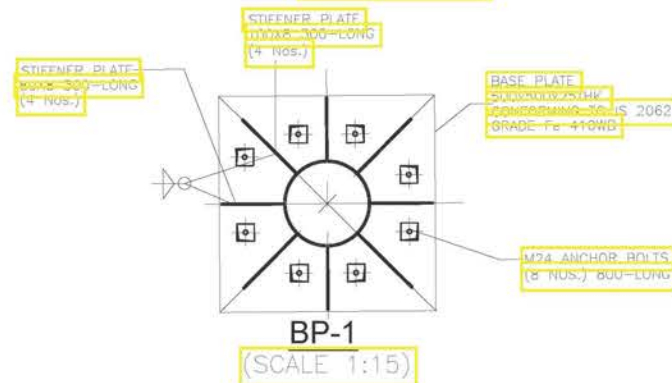
**SECTION - 10-10
(SHOWING REINFORCEMENT)**
DIMENSION DETAILS OF STAIR FDN.
(SCALE 1:50)



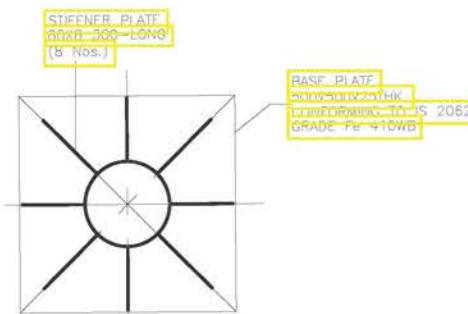
**SECTION 8-8
(SCALE 1:50)**



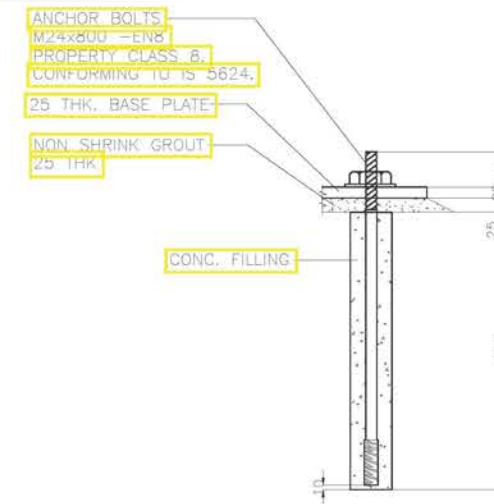
**SECTION 9-9
(SCALE 1:150)**



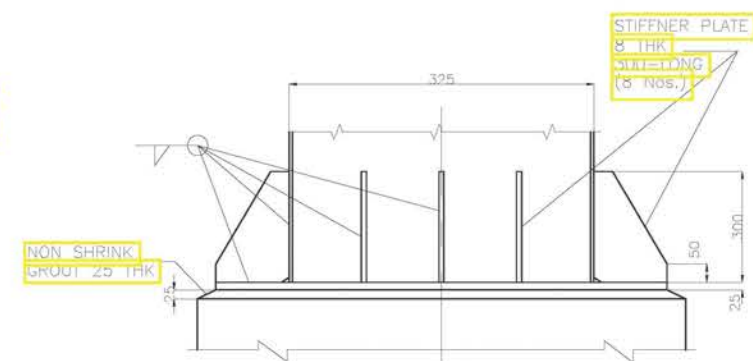
**BP-1
(SCALE 1:15)**



**BP-3
(SCALE 1:15)**



**DETAILS OF ANCHOR BOLTS
(SCALE 1:10)**



**DETAIL - M
(SCALE 1:15)**

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT DRAWING.
3. RCC GRADE OF FOOTING-M35
4. COVER FOR FOOTING-75mm
5. GRADE OF COLUMN STEEL E-350 AND ALL OTHER STEEL E-300.
6. NET BEARING CAPACITY THAT SHALL BE ENSURED BEFORE EXECUTION OF WORK IS 16 T/m2.

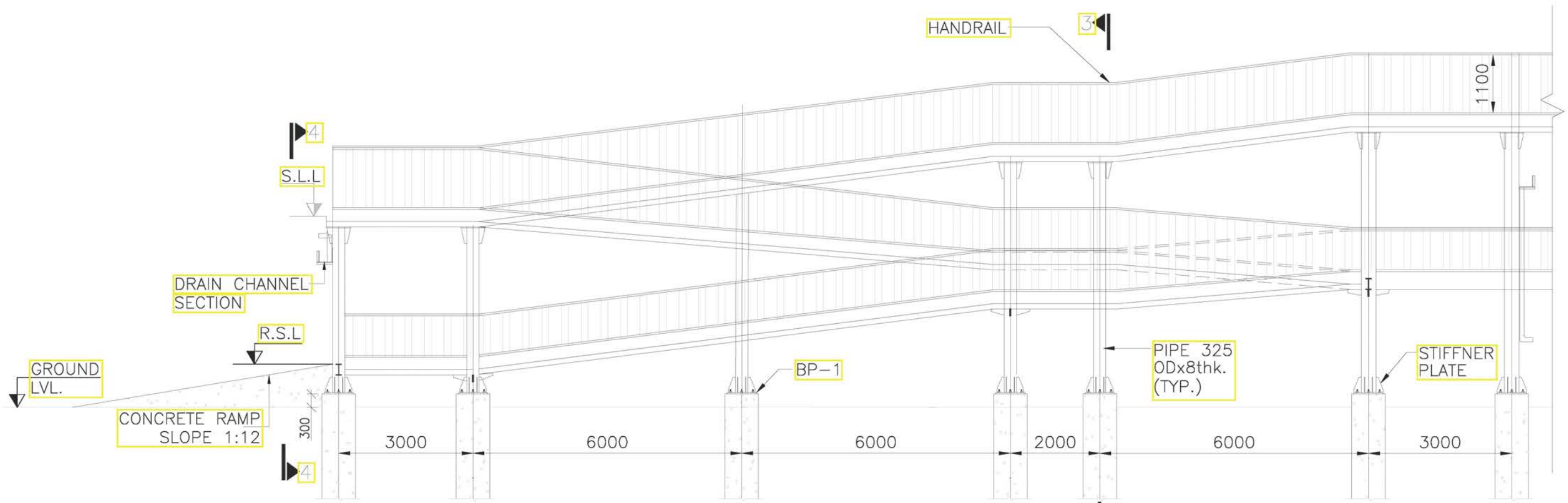
REV.	ISSUED	DESCRIPTION	CHECKED	APPROVED

CHECKED BY : G.K BAGDA
DESIGNED BY : T.M. MURLI
PREPARE BY : IRSHAD KHAN
APPROVED BY :

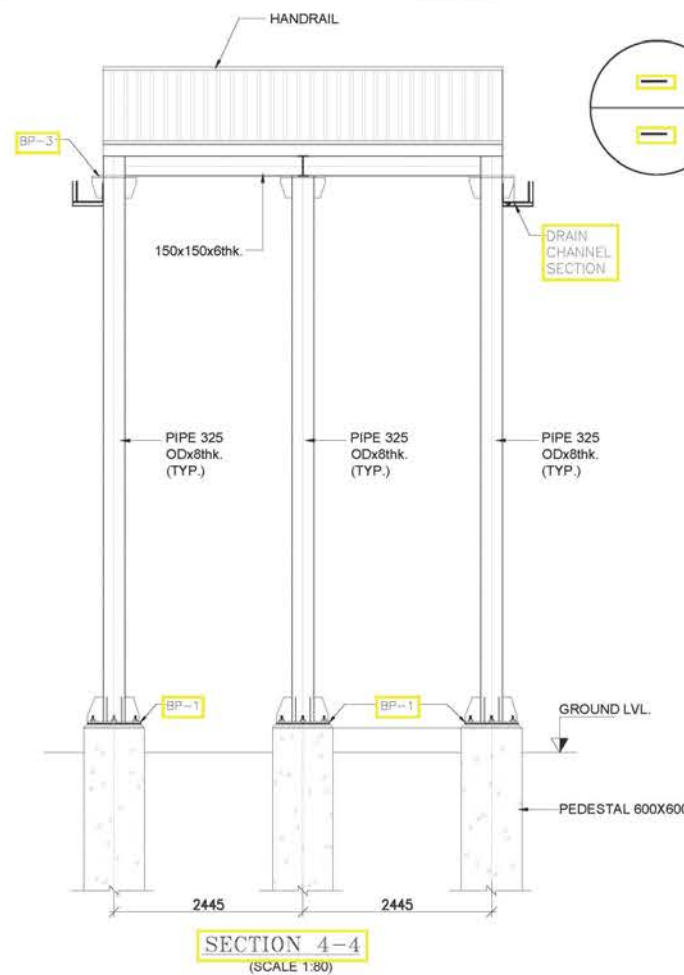
CLIENT :	DATE:- AUG. - 2024	SCALE :-
CHAINAGE : - 12+840	REVISION :- R-1	

PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRAD WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF	DRG. NO. : TES/NH-248/STR/05
TITLE : GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGEAT CH:6+420	
Consultant Theme Engineering Services Pvt. Ltd. B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax: +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com	

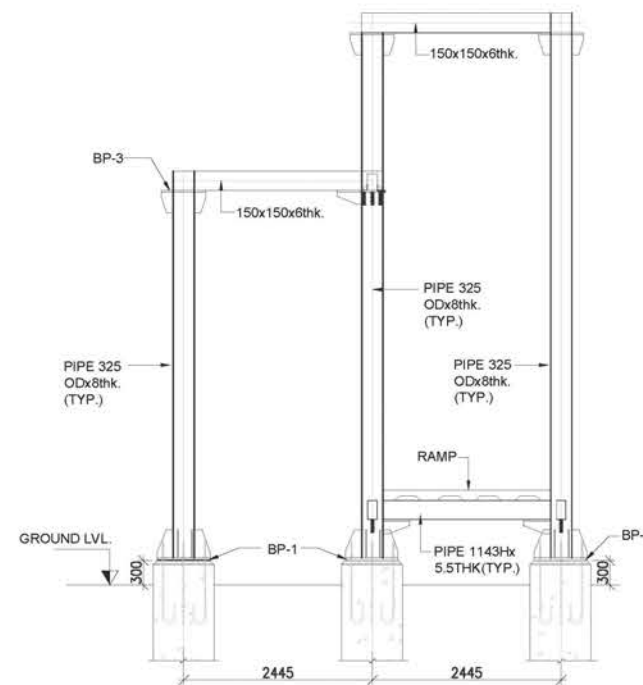




SIDE VIEW
(SCALE-1:125)



SECTION 4-4
(SCALE 1:80)



SECTION 3-3
(SCALE 1:80)

The ramp is for pedestrian or physically challenged persons use only. No vehicles allowed.



					CHECKED BY : G.K BAGDA	<div>CLIENT :</div> <div><div>Public Works Department, Rajasthan (Ministry of Road Transport & Highway)</div><div></div></div>	<div>PROJECT :</div> <div>CONSULTANCY SERVICES FOR PREPARATION OF DPR FOR GRADI WITH SLIP ROAD AT ACHROL FROM KM 11/00 TO KM 12/00 OF</div>		<div>Team Leader</div> <div></div>	
					DESIGNED BY : T.M. MURLI		<div>TITLE :</div> <div>GENRAL ARRANGEMENT DRAWING FOR FOOT OVER BRIDGEAT CH-6+420</div>			
					PREPARE BY : IRSHAD KHAN		<div>Consultant</div> <div> Theme Engineering Services Pvt. Ltd.</div>			
					APPROVED BY :		<div>DRG. NO. : TES/NH-248/STR/06</div>			
REV.	ISSUED	DESCRIPTION			CHECKED	APPROVED	<div>CHAINAGE : - 12+840</div>	<div>DATE:- AUG. - 2024</div>		<div>B-24, Gokul Vatika, Jawahar Circle, Jaipur-302017 (Raj.) Phone : +91-141-2724495-96-97, Telefax: +91-141-2724491 Email : theme@themeengineering.com, design@themeengineering.com Website : www.themeengineering.com</div>
								<div>REVISION :- R-1</div>	<div>SCALE :-</div>	