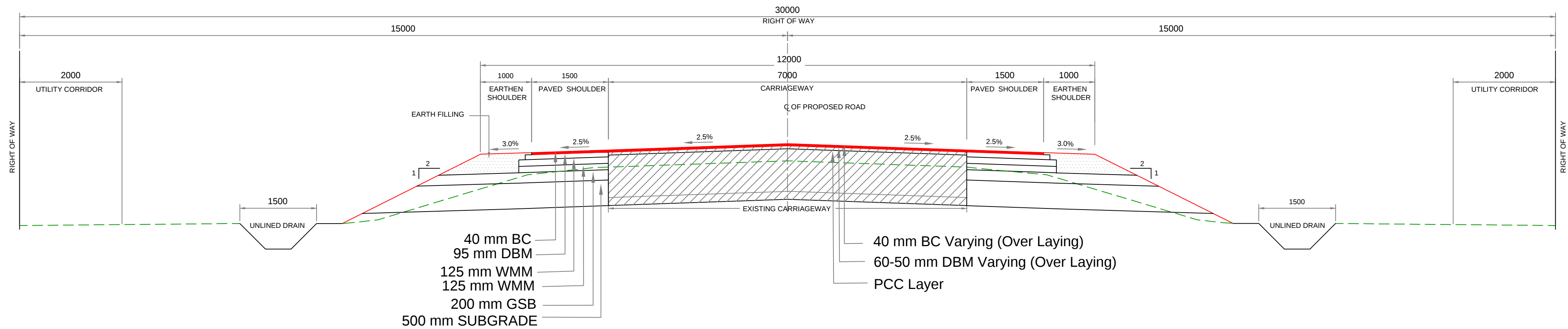
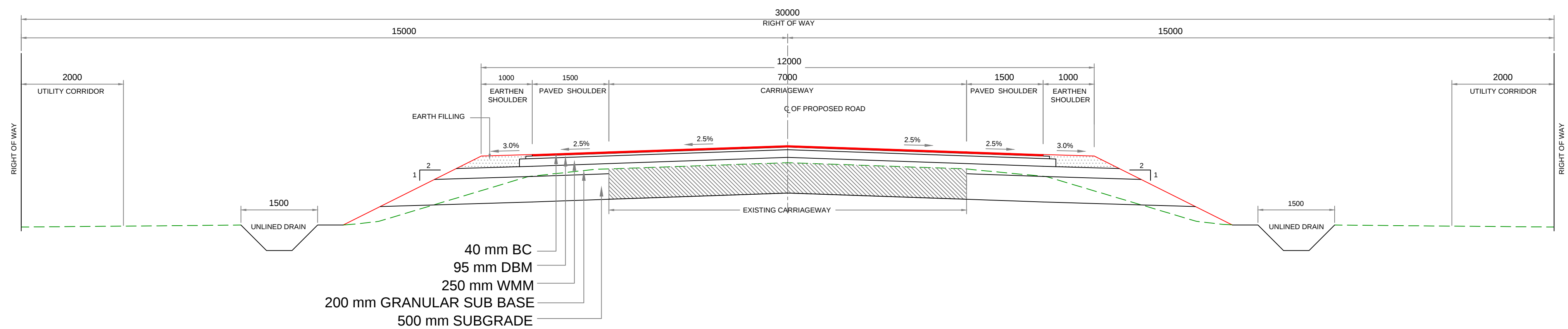




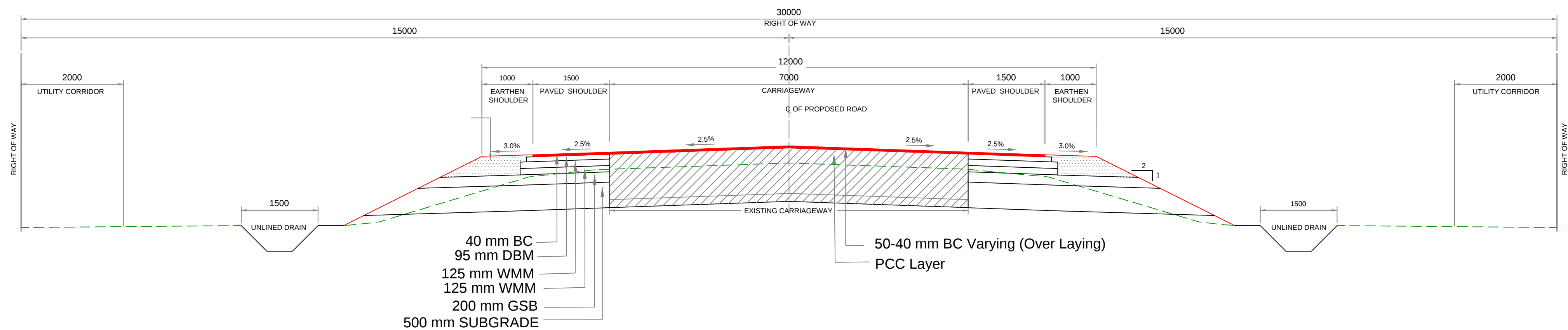
TCS-01 : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (30M ROW)
(IN RURAL AREA)

TCS- 01			Over Lay Thickness	
Chainage (Km)	Length (m)	From To	BC	DBM
2+600	6+860	4260	40	60
7+060	11+140	4080	40	60
11+840	12+440	600	40	50
12+680	14+000	1320	40	50
20+100	22+400	2300	40	50
22+800	23+800	1000	40	50
28+080	30+000	1920	40	50
31+040	33+050	2010	40	50
34+000	35+570	1570	40	50
35+980	36+400	420	40	50
Total=		19480		



TCS-01A : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (30M ROW)
(IN RURAL AREA)

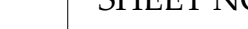
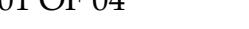
TCS- 01A		
Chainage (Km)	Length (m)	From To
2+320	2+600	280
6+860	7+060	200
12+440	12+680	240
17+480	17+700	220
18+250	18+380	130
23+800	23+890	90
27+920	28+080	160
30+000	30+130	130
Total=		1450

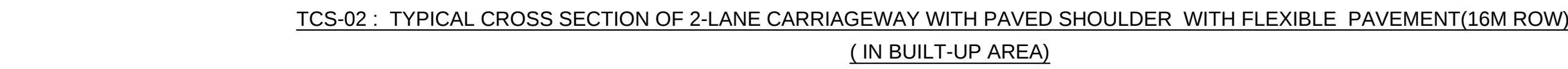


TCS-01B : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (30M ROW)
(IN RURAL AREA)

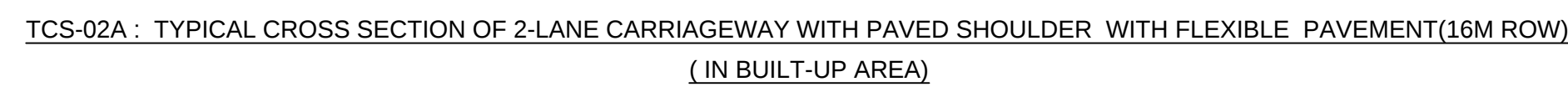
TCS- 01B			Over Lay Thickness
Chainage (Km)	Length (m)	From To	BC
17+000	17+480	480	40
18+380	19+250	870	40
36+400	40+540	4140	40
40+900	41+250	350	40
41+250	45+000	3750	50
Total=		9590	


Executive Engineer
N. H. Division Aurangabad

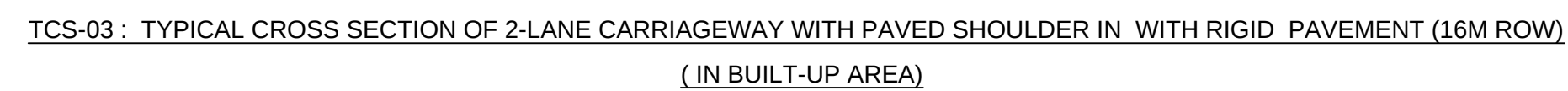
					 CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE : TYPICAL CROSS SECTION	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092.	DWG. NO. CET/3882/MOHANIA-BUXAR/FDPR/TCS			
SCALE: N.T.S								SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT		REVISION MKD. - R0	
DATE: SEPT,2021					PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO TWO LANE WITH PAVED SHOULDER OF MOHANIA - RAMGARH - CHAUSA - BUXAR IN BIHAR ON EPC MODE	PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01		DRAWN BY.	DESIGN BY.	CHECKED BY.	ISSUED BY.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.				 U.M	 M.B	 B. D	 A.N
REVISIONS											



TCS- 02			Over Lay	
Chainage (Km)		Length	Thickness	
From	To	(m)	BC	DBM
19+350	20+100	750	40	50
24+460	25+080	620	40	50
27+050	27+430	380	40	50
33+050	34+000	950	40	50
35+570	35+980	410	40	50
Total=		3110		



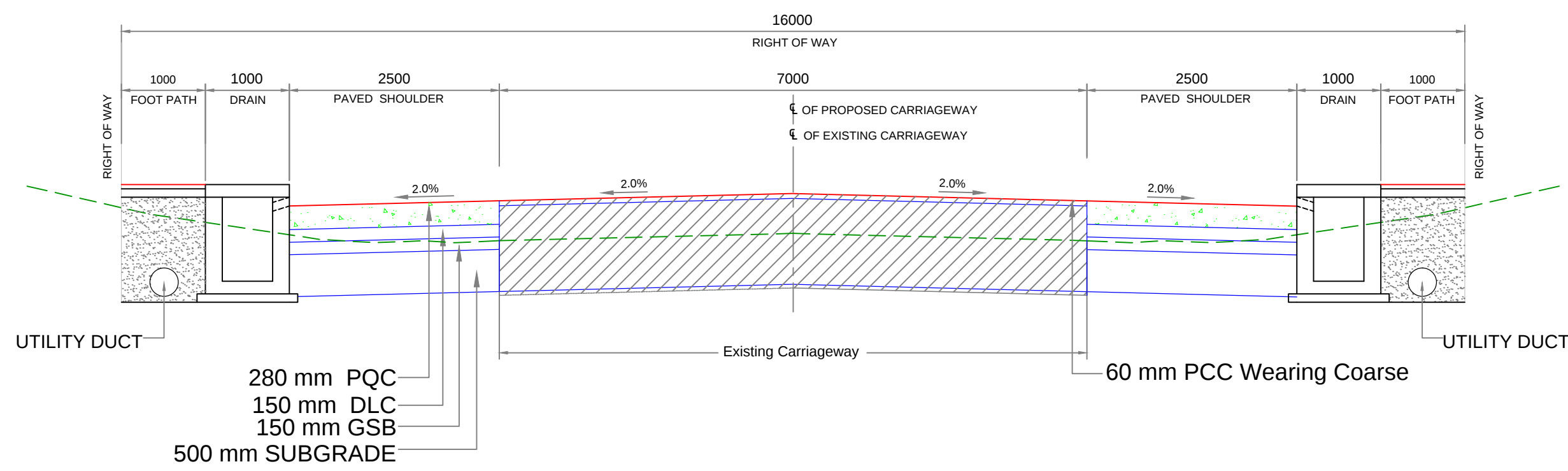
TCS- 02A			Over Lay
Chainage (Km)		Length	Thickness
From	To	(m)	BC
19+250	19+350	100	40
40+540	40+900	360	40
	Total=	460	



TCS- 03		
Chainage (Km)		Length (m)
From	To	
14+000	14+450	450
14+800	17+000	2200
25+080	26+150	1070
26+750	27+050	300
Total=		4020

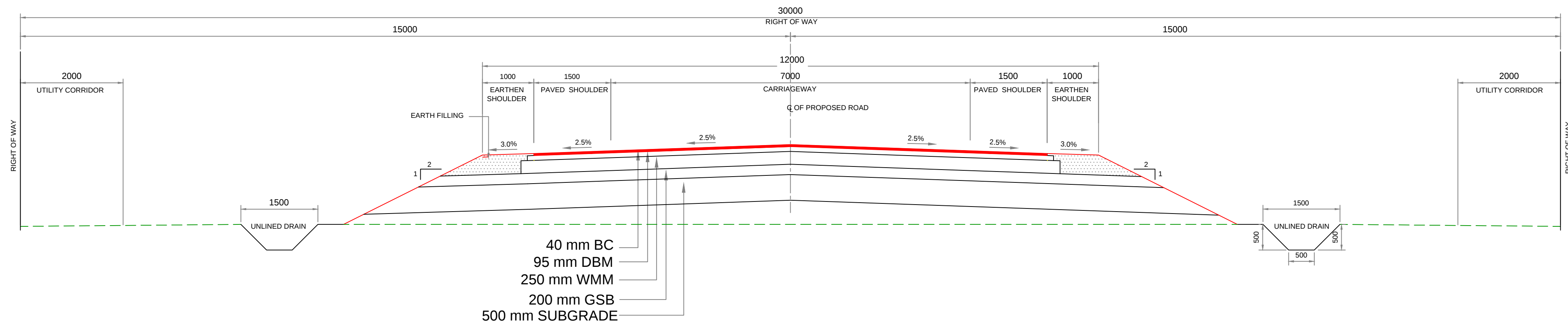
Executive Engineer
N. H. Division Aurangabad

					SCALE: N.T.S	 Government of India	CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE : TYPICAL CROSS SECTION	CONSULTANT :  CE TESTING COMPANY PVT.LTD. 124-A, N.S.C. BOSE ROAD, KOLKATA - 700092.	DWG. NO. CET/3882/MOHANIA-BUXAR/FDPR/TCS			
					DATE: SEPT,2021			PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO TWO LANE WITH PAVED SHOULDER OF MOHANIA - RAMGARH - CHAUSA - BUXAR IN BIHAR ON EPC MODE		SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT	REVISION MKD. - R0		SHEET NO. - 02 OF 04
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						DRAWN BY.  U.M	DESIGN BY.  M.B	CHECKED BY.  B. D	ISSUED BY.  A.N
REVISIONS													



TCS-03A : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER IN WITH RIGID PAVEMENT (16M ROW)
(IN BUILT-UP AREA)

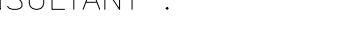
TCS- 03A		
Chainage (Km)		Length (m)
From	To	
14+450	14+800	350
26+150	26+750	600
Total=		950

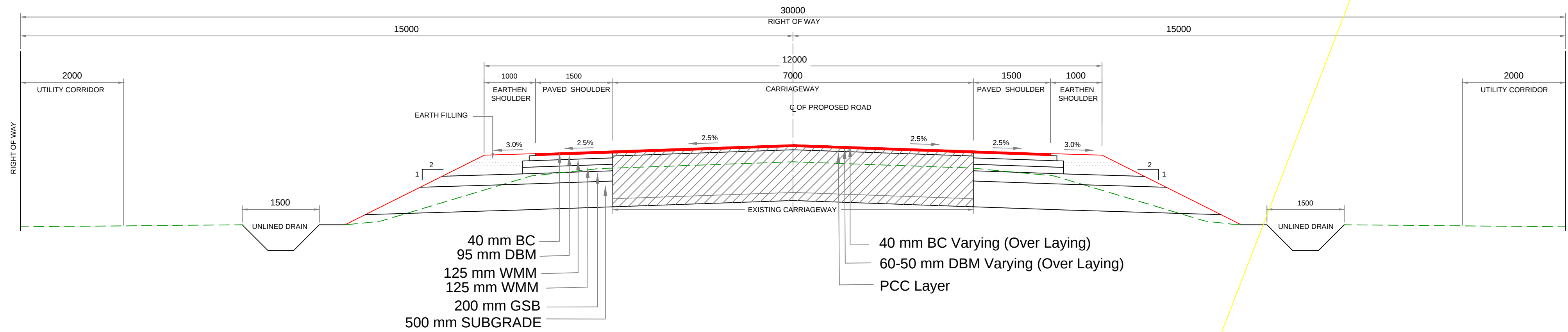


TCS-04 : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (30M ROW)
(IN REALIGNMENT PORTION AT RURAL AREA)

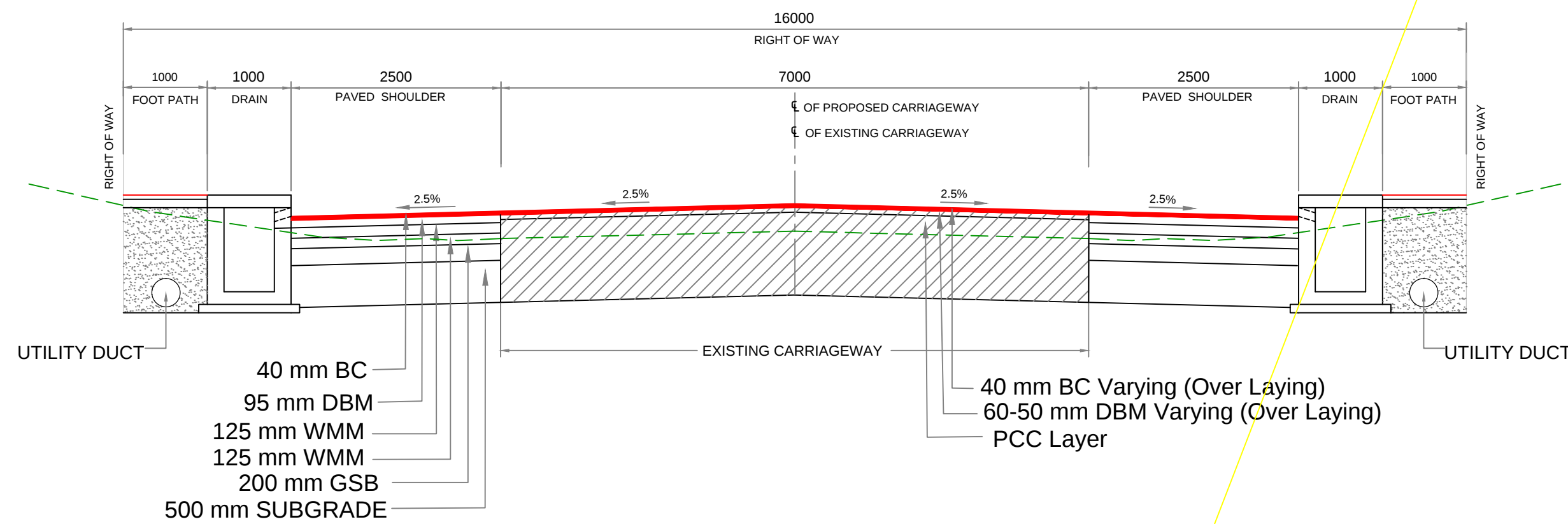
TCS- 4		
Chainage (Km)		Length (m)
From	To	
0+000	2+320	2320
11+140	11+840	700
17+700	18+250	550
22+400	22+800	400
23+890	24+460	570
27+430	27+920	490
30+130	31+040	910
Total=		5940


Executive Engineer
N. H. Division Aurangabad

					SCALE: N.T.S		CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE : TYPICAL CROSS SECTION		CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092.	DWG. NO. CET/3882/MOHANIA-BUXAR/FDPR/TCS			
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: SEPT,2021			SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT			REVISION MKD. - R0		SHEET NO. - 03 OF 04	
REVISIONS						PROJECT:	CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO TWO LANE WITH PAVED SHOULDER OF MOHANIA - RAMGARH - CHAUSA - BUXAR IN BIHAR ON EPC MODE	PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01			 U.M	 M.B	 B. D	 A.N



TCS-01 : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (30M ROW)
(IN RURAL AREA)

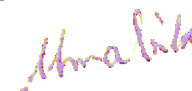


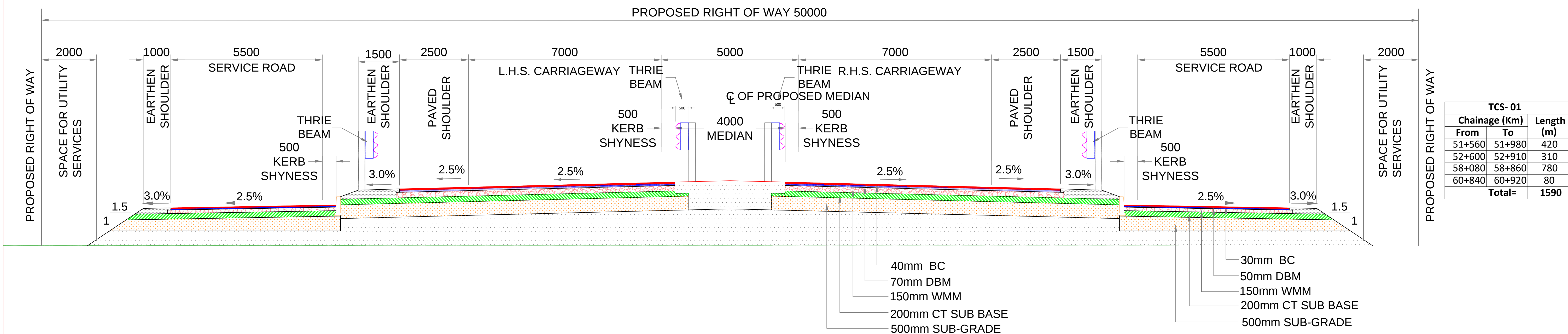
TCS-02 : TYPICAL CROSS SECTION OF 2-LANE CARRIAGEWAY WITH PAVED SHOULDER WITH FLEXIBLE PAVEMENT (16M ROW)
(IN BUILT-UP AREA)

TCS- 01			Over Lay Thickness	
Chainage (Km)		Length (m)	BC	DBM
From	To			
2+600	6+860	4260	40	60
7+060	11+140	4080	40	60
11+840	12+440	600	40	50
12+680	14+000	1320	40	50
20+100	22+400	2300	40	50
22+800	23+800	1000	40	50
28+080	30+000	1920	40	50
31+040	33+050	2010	40	50
34+000	35+570	1570	40	50
35+980	36+400	420	40	50
Total=		19480		

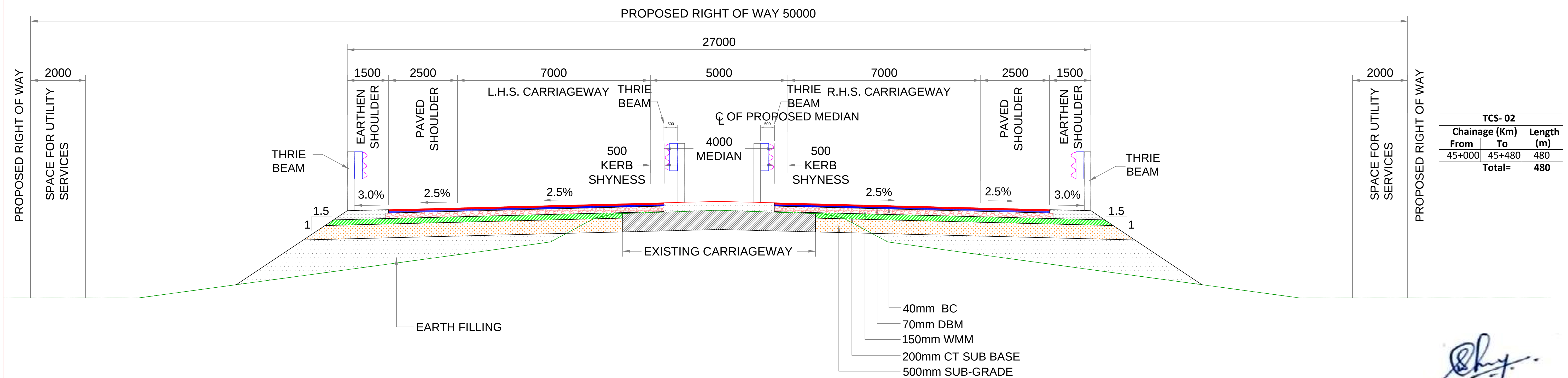
TCS- 02			Over Lay Thickness	
Chainage (Km)		Length (m)	BC	DBM
From	To			
19+350	20+100	750	40	50
24+460	25+080	620	40	50
27+050	27+430	380	40	50
33+050	34+000	950	40	50
35+570	35+980	410	40	50
Total=		3110		


Executive Engineer
N. H. Division Aurangabad

					SCALE: N.T.S	 CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO TWO LANE WITH PAVED SHOULDER OF MOHANIA - RAMGARH - CHAUSA - BUXAR IN BIHAR ON EPC MODE	TITLE : TYPICAL CROSS SECTION SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092	DWG. NO. CET/3882/MOHANIA-BUXAR/FDPR/TCS			
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: SEPT,2021					REVISION MKD. - R0		SHEET NO. - 04 OF 04	
REVISIONS										DRAWN BY:  U.M	DESIGN BY:  M.B	CHECKED BY:  B. D	ISSUED BY:  A.N



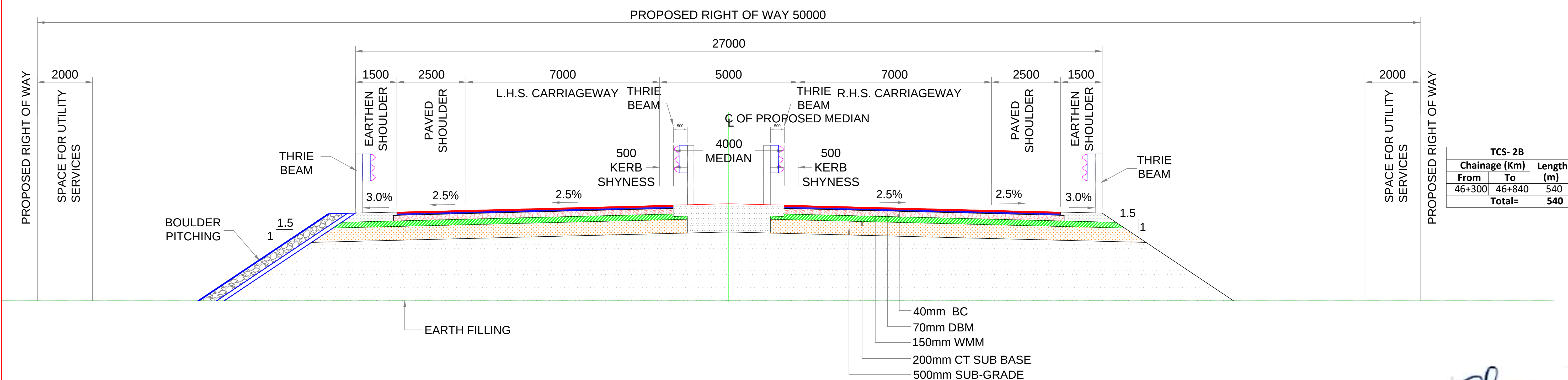
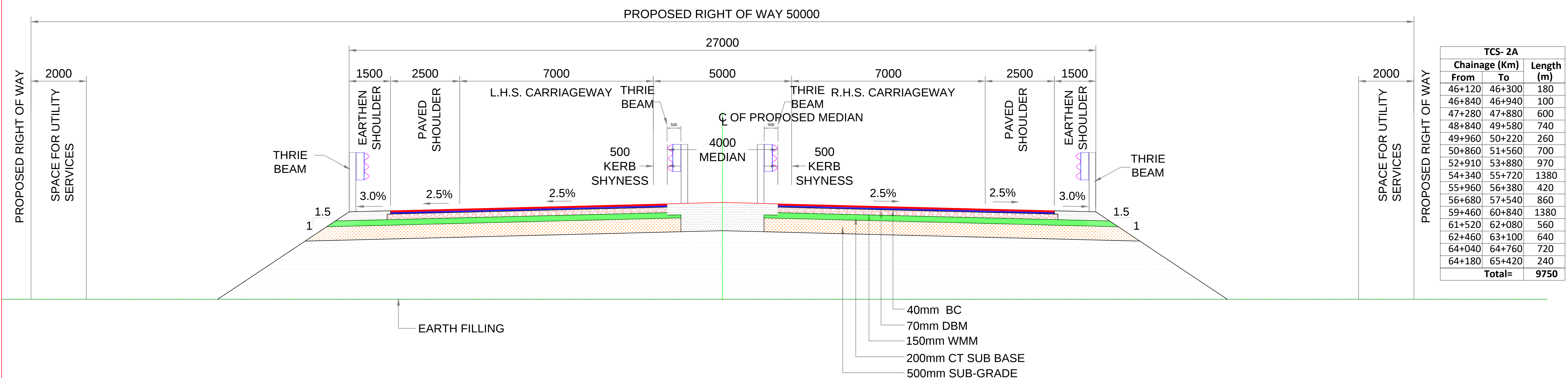
**TCS-1: TYPICAL CROSS SECTION OF 4 LANE CARRIAGEWAY IN RURAL SECTION
(WITH BOTH SIDE NEW SERVICE ROAD)**



**TCS-2: TYPICAL CROSS SECTION OF 4 LANE CARRIAGEWAY IN RURAL SECTION
(RECONSTRUCTION)**

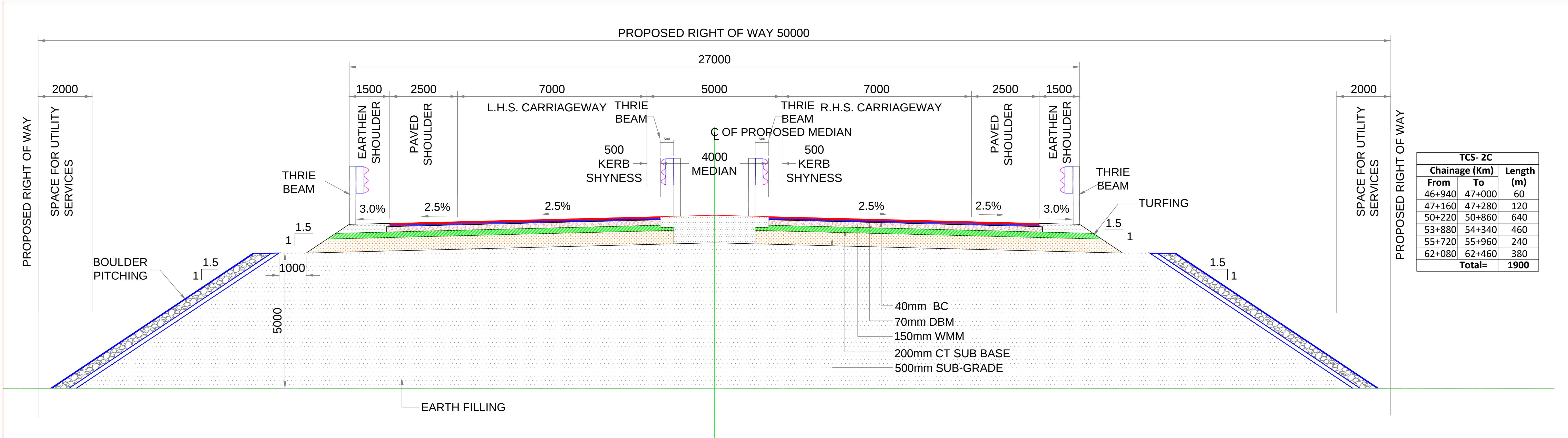
[Signature]
Executive Engineer
N. H. Division Aurangabad

					SCALE: 1:100			CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE: TYPICAL CROSS SECTION	CONSULTANT: CETEST CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD, KOLKATA - 700092	DWG. NO. CET/3882/CHAUSA-BUXAR/FDPR/TCS			
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: APRIL, 2022	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO FOUR LANE WITH PAVED SHOULDER OF CHAUSA - BUXAR BYPASS IN BIHAR ON EPC MODE					REVISION MKD. - R0	SHEET NO. - 01		
REVISIONS									SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: II (45.000KM TO 65.915KM)		DRAWN BY: <i>[Signature]</i> U.M.	DESIGN BY: <i>[Signature]</i> M.B.	CHECKED BY: <i>[Signature]</i> B. D.	ISSUED BY: <i>[Signature]</i> A.N.
									PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01					

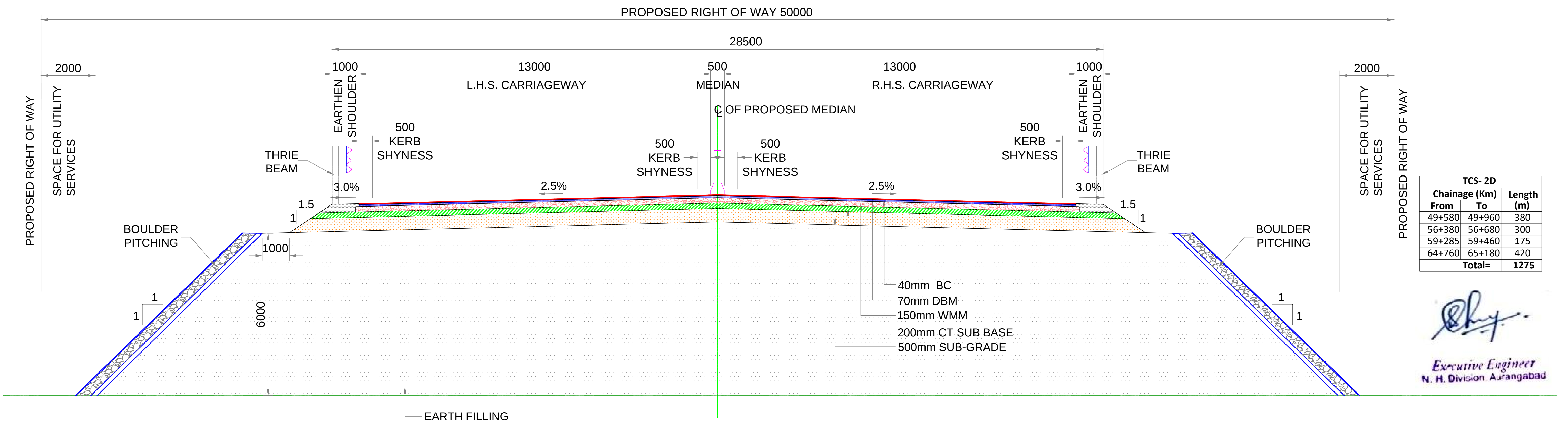


Executive Engineer
N. H. Division Aurangabad

					SCALE: 1:100	 Government of India	CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE : TYPICAL CROSS SECTION		CONSULTANT :  CE TEST Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company	 CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD, KOLKATA - 700092.	DWG. NO. CET/3882/CHAUSA-BUXAR/FDPR/TCS				
					DATE: APRIL, 2022			PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO FOUR LANE WITH PAVED SHOULDER OF CHAUSA - BUXAR BYPASS IN BIHAR ON EPC MODE	SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: II (45.000KM TO 65.915KM)			REVISION MKD. - R0		SHEET NO. - 02		
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.					PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01					DRAWN BY.  U.M.	DESIGN BY.  M.B.	CHECKED BY.  B.D.
REVISIONS																

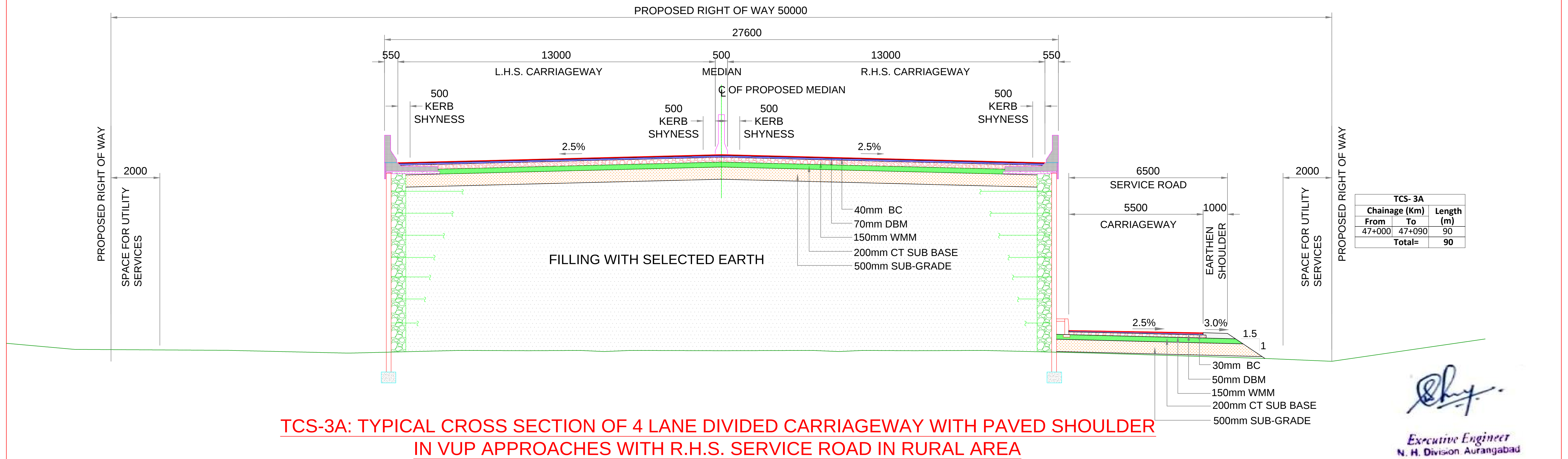
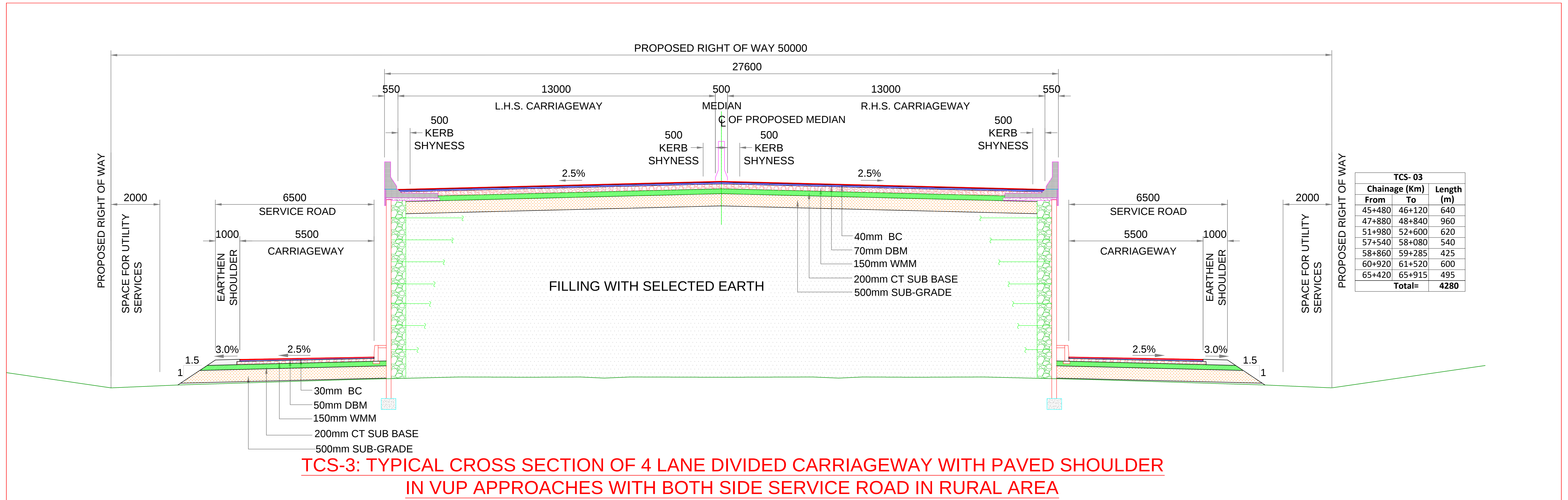


TCS-2C: TYPICAL CROSS SECTION OF 4 LANE CARRIAGEWAY IN RURAL SECTION FOR HIGH EMBANKMENT STRETCH (INCLUDING SIDE SLOPE PROTECTION WITH BOULDER PITCHING AT BOTH SIDE)

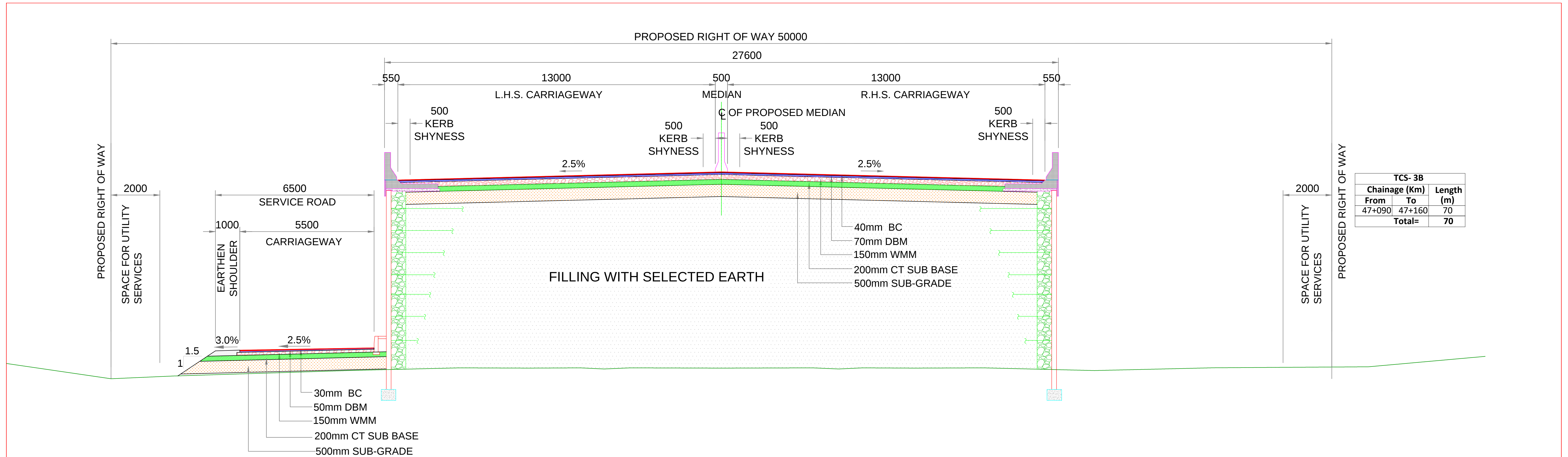


TCS-2D: TYPICAL CROSS SECTION OF 4 LANE CARRIAGEWAY IN RURAL SECTION FOR HIGH EMBANKMENT STRETCH AT VUP APPROACHES (INCLUDING SIDE SLOPE PROTECTION WITH BOULDER PITCHING AT BOTH SIDE)

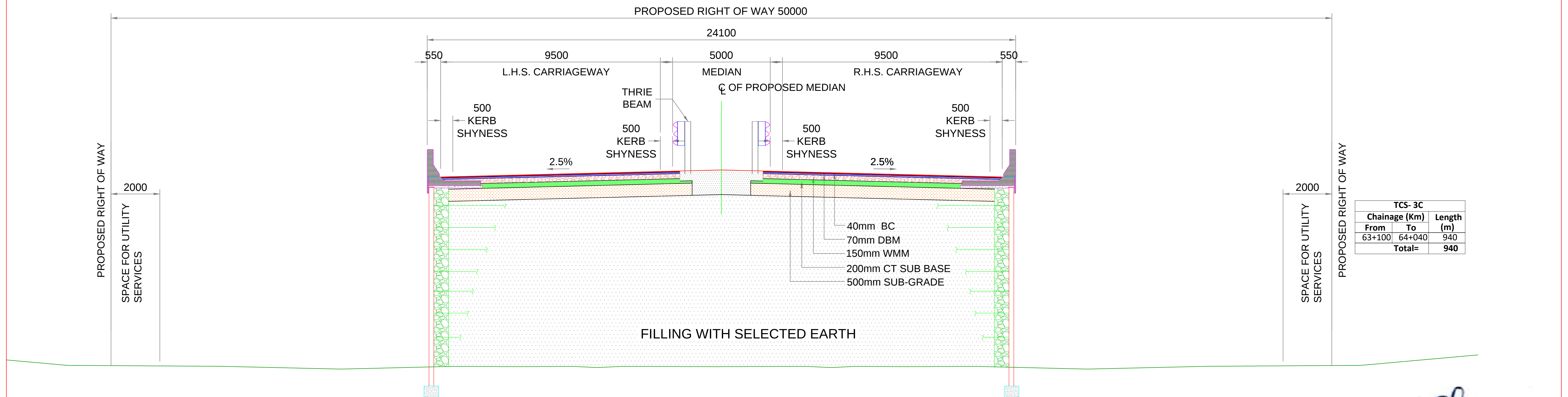
					SCALE: 1:100		 Government of India	CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE: TYPICAL CROSS SECTION		CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD, KOLKATA - 700092. 	DWG. NO. CET/3882/CHAUSA-BUXAR/FDPR/TCS					
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: APRIL, 2022	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO FOUR LANE WITH PAVED SHOULDER OF CHAUSA - BUXAR BYPASS IN BIHAR ON EPC MODE			SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: II (45.000KM TO 65.915KM)	REVISION MKD. - R0		SHEET NO. - 03					
REVISIONS									PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01					DRAWN BY.  U.M	DESIGN BY.  M.B	CHECKED BY.  B. D	ISSUED BY.  A.N



					SCALE: 1:100		CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE: TYPICAL CROSS SECTION	CONSULTANT :  CETEST Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company	CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092. 	DWG. NO. CET/3882/CHAUSA-BUXAR/FDPR/TCS						
					DATE: APRIL,2022						PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO FOUR LANE WITH PAVED SHOULDER OF CHAUSA - BUXAR BYPASS IN BIHAR ON EPC MODE	SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: II (45.000KM TO 65.915KM)	REVISION MKD. - R0		SHEET NO. - 04		
MKD.	DATE	DESCRIPTION		CHKD.									APPRD.	DRAWN BY.	DESIGN BY.	CHECKED BY.	ISSUED BY.
REVISIONS																	

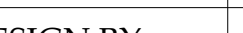


**TCS-3B: TYPICAL CROSS SECTION OF 4 LANE DIVIDED CARRIAGEWAY WITH PAVED SHOULDER
IN VUP APPROACHES WITH L.H.S. SERVICE ROAD IN RURAL AREA**



**TCS-3C: TYPICAL CROSS SECTION OF 4 LANE DIVIDED CARRIAGEWAY WITH PAVED SHOULDER
IN ROB APPROACHES WITH BOTH SIDE SERVICE ROAD IN RURAL AREA**

[Signature]
Executive Engineer
N. H. Division Aurangabad

					SCALE: 1:100		CLIENT: MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA EXECUTIVE ENGINEER, NATIONAL HIGHWAY DIVISION GULZARBAGH, PATNA GOVT. OF BIHAR	TITLE: TYPICAL CROSS SECTION		CONSULTANT :  CETEST CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092.	DWG. NO. CET/3882/CHAUSA-BUXAR/FDPR/TCS			
								SUBMISSION TYPE: FINAL DETAILED PROJECT REPORT PACKAGE NO: II (45.000KM TO 65.915KM)			REVISION MKD. - R0		SHEET NO. - 05	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: APRIL,2022		PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR IMPROVEMENT TO FOUR LANE WITH PAVED SHOULDER OF CHAUSA - BUXAR BYPASS IN BIHAR ON EPC MODE	PACKAGE NO: DPR/BIHAR/ NHDG-PAT/01		 CETEST CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. BOSE ROAD KOLKATA - 700092.	DRAWN BY.	DESIGN BY.	CHECKED BY.	ISSUED BY.
REVISIONS													 U.M	 M.B