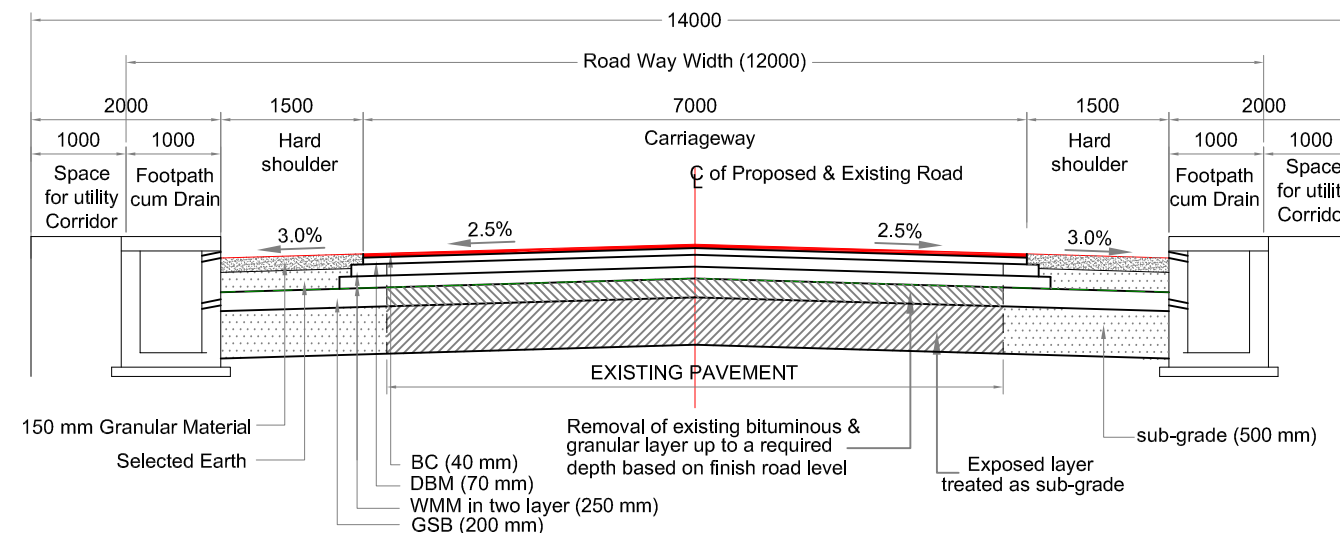
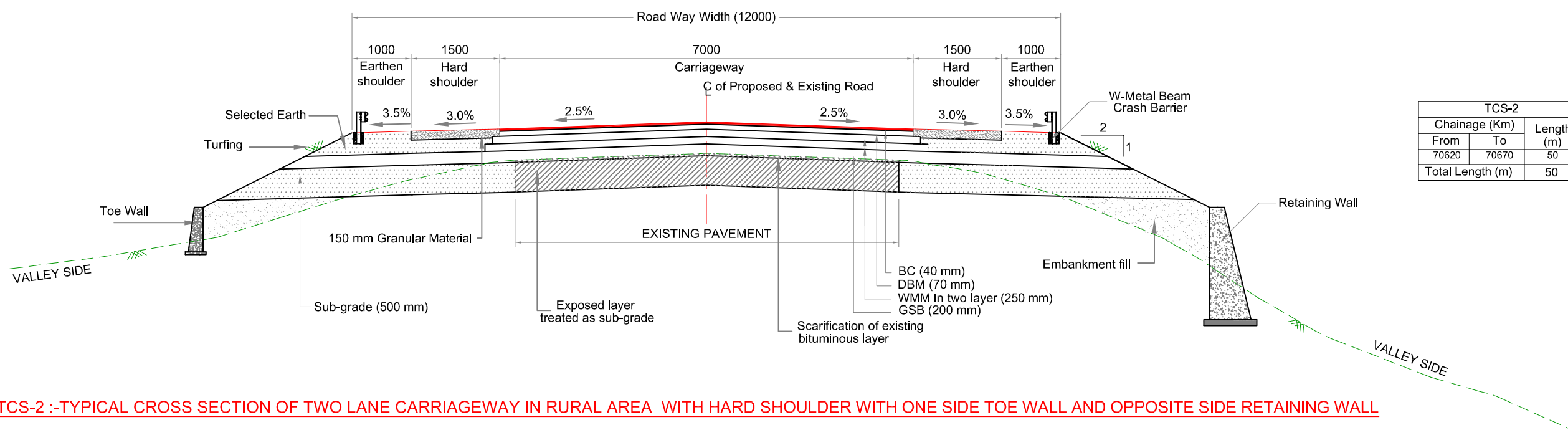




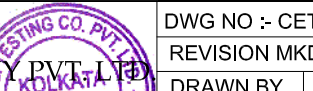
TCS-1		
Chainage (Km)		Length (m)
From	To	
70670	70900	230
78280	79230	950
86150	86450	300
Total Length (m)		1480

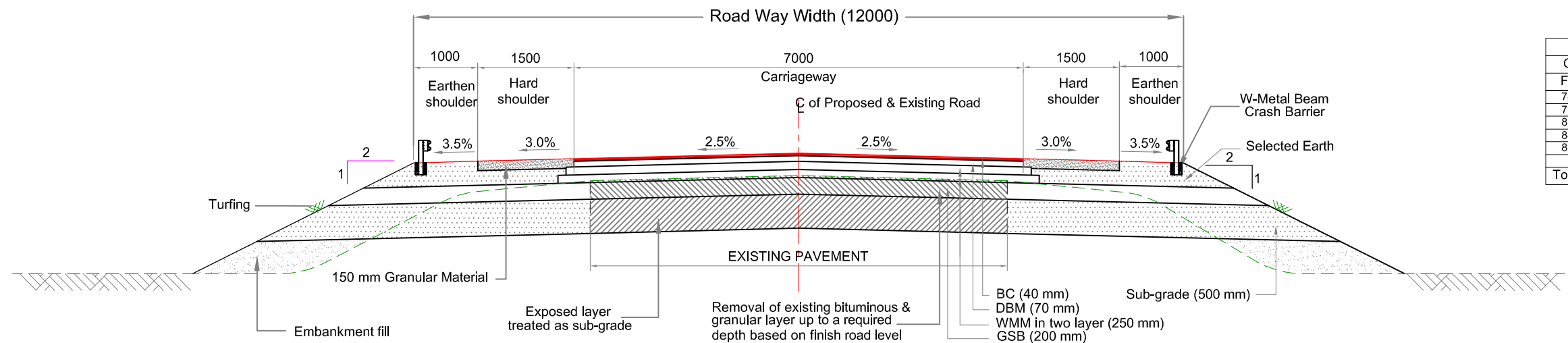
**TCS-1 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN BUILT UP AREA WITH BOTH SIDE FOOTPATH CUM RCC RECTENGULAR DRAIN
(RECONSTRUCTION OF EXISTING PAVEMENT)**



TCS-2		
Chainage (Km)		Length (m)
From	To	
70620	70670	50
Total Length (m)		50

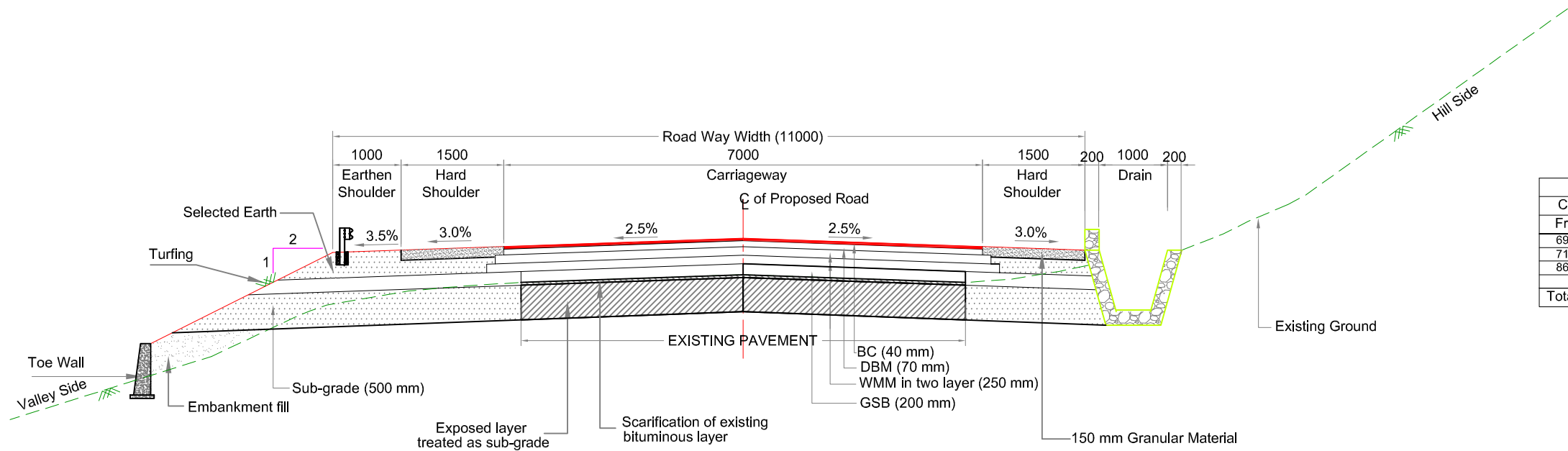
**TCS-2 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY IN RURAL AREA WITH HARD SHOULDER WITH ONE SIDE TOE WALL AND OPPOSITE SIDE RETAINING WALL
(RECONSTRUCTION OF EXISTING PAVEMENT)**

					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4 Parliament Street, New Delhi - 110001	TYPICAL CROSS SECTION	CONSULTANT :  CETEST CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092 	DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TCS					
										DATE: APRIL, 2020	REVISION MKD. - R0		SHEET NO. - 01		
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION (LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017)						DRAWN BY	DESIGNED BY	CHECKED BY	ISSUED BY	
REVISIONS															
										SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT					
										PACKAGE - IIIA					



TCS-4		
Chainage (Km)		Length (m)
From	To	
74570	74620	50
75120	75220	100
81870	82020	150
84870	84920	50
85120	85220	100
Total Length (m)		450

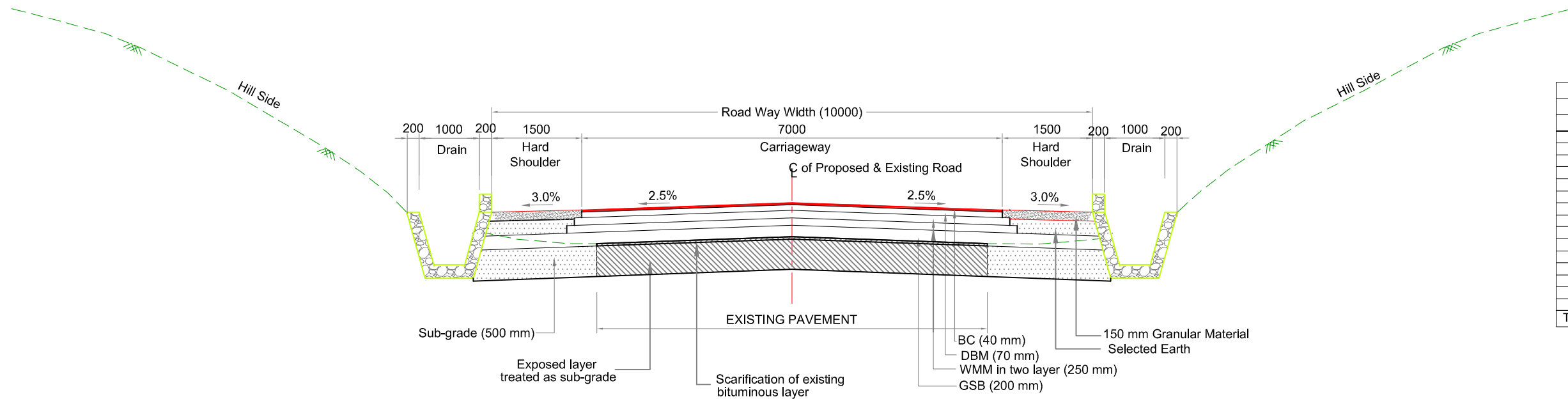
**TCS- 4 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA
(RECONSTRUCTION OF EXISTING PAVEMENT)**



TCS-5		
Chainage (Km)		Length (m)
From	To	
69920	69970	50
71770	71820	50
86810	86870	60
Total Length (m)		160

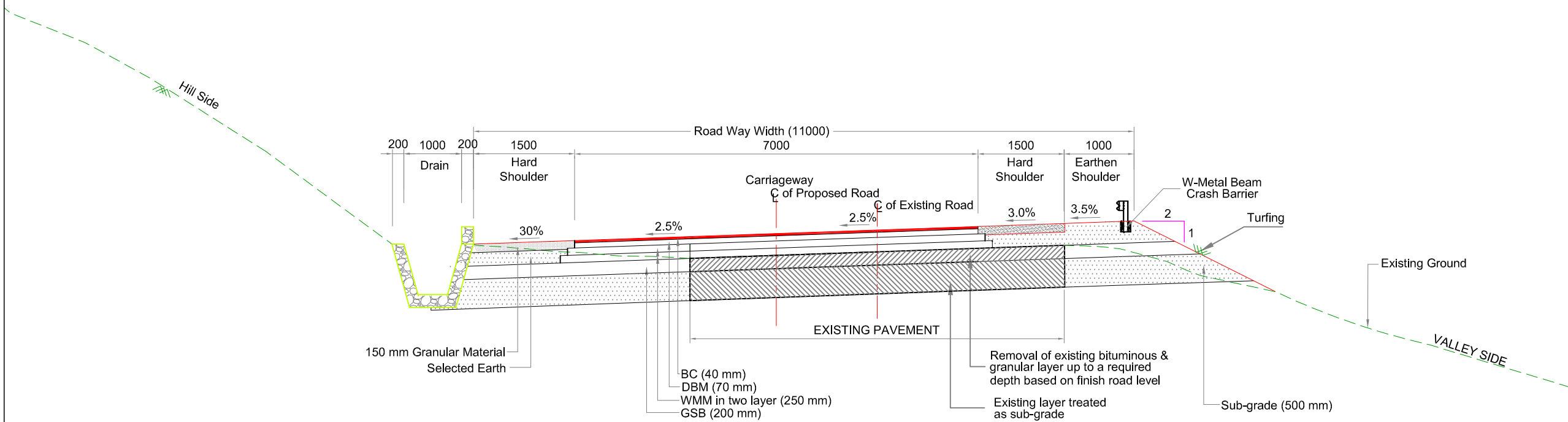
**TCS-5 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH TOE WALL ON VALLEY SIDE & OPEN TRAPEZOIDAL DRAIN ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)**

					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4 Parliament Street, New Delhi - 110001		TYPICAL CROSS SECTION		CONSULTANT : CETEST CE TESTING COMPANY PVT. LTD. Engineering Consultants AN ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TCS			
					DATE: APRIL, 2020		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANE OF CHURACHANDPUR - TUIVAI ROAD SECTION (LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT4J-TP/Manipur/2017)		SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT				REVISION MKD. - R0		SHEET NO. - 02	
													DRAWN BY		DESIGNED BY	
													CHECKED BY		ISSUED BY	
													S.MANDAL		B.DAS	
													S.SADHU		A.K.DAS	



TCS-6		
Chainage (Km)		Length (m)
From	To	
70420	70520	100
73270	73370	100
73620	73720	100
73820	74020	200
74920	75120	200
76120	76170	50
76470	76620	150
76720	76770	50
76920	77020	100
82870	83070	200
85570	85635	65
86980	87130	150
87375	88025	650
88135	88890	755
Total Length (m)		2870

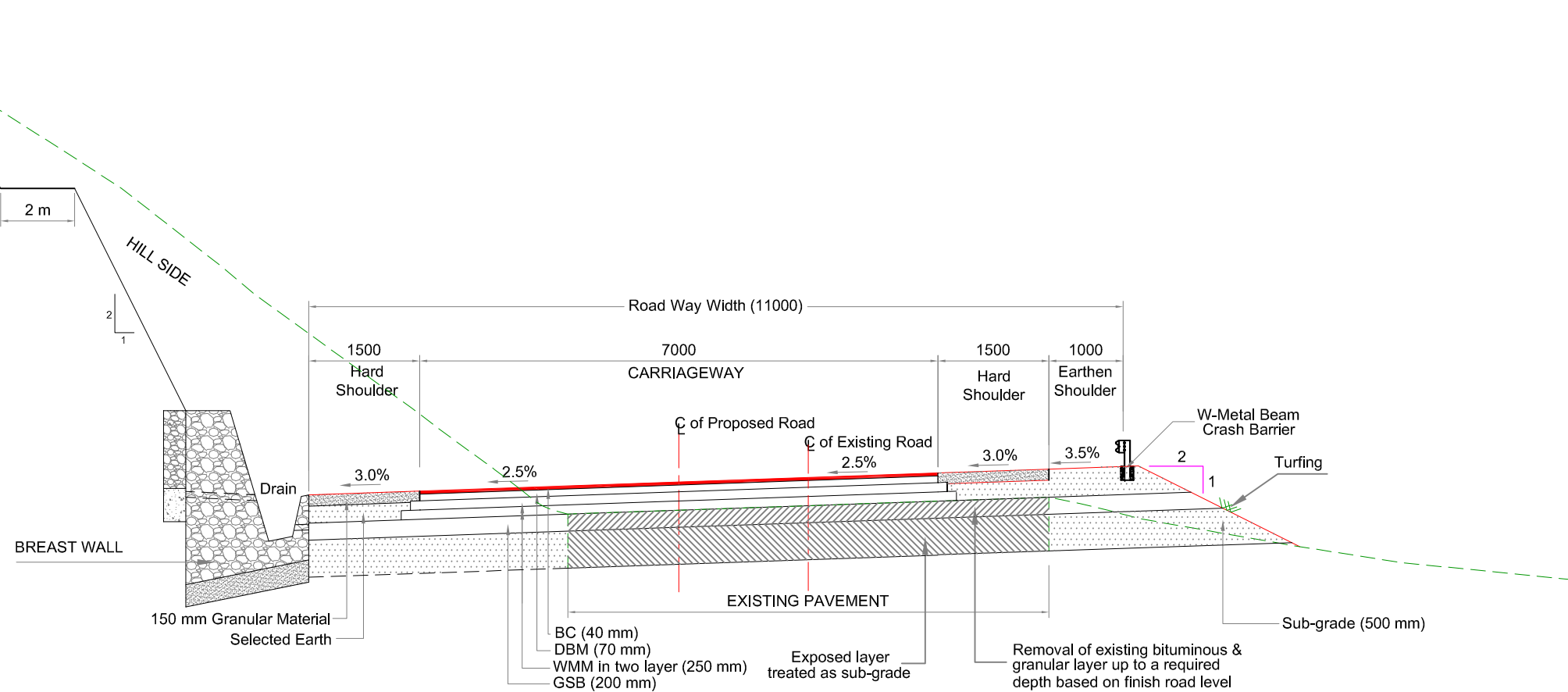
TCS-6 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH BOTH SIDE OPEN TRAPEZOIDAL DRAIN ON HILL SECTION
(RECONSTRUCTION OF EXISTING PAVEMENT)



TCS-7		
Chainage (Km)		Length (m)
From	To	
69875	69920	45
71120	71270	150
71670	71720	50
71820	71870	50
72620	72670	50
74120	74420	300
74620	74770	150
75420	75570	150
76170	76320	150
76620	76720	100
76770	76920	150
77020	78280	1260
79820	79970	150
80120	80670	550
80820	81070	250
81370	81470	100
81670	81820	150
82020	82420	400
83220	83370	150
83620	83770	150
83920	84020	100
85220	85570	350
85770	85940	170
86040	86150	110
86450	86810	360
88890	88980	90
Total Length (m)		5685

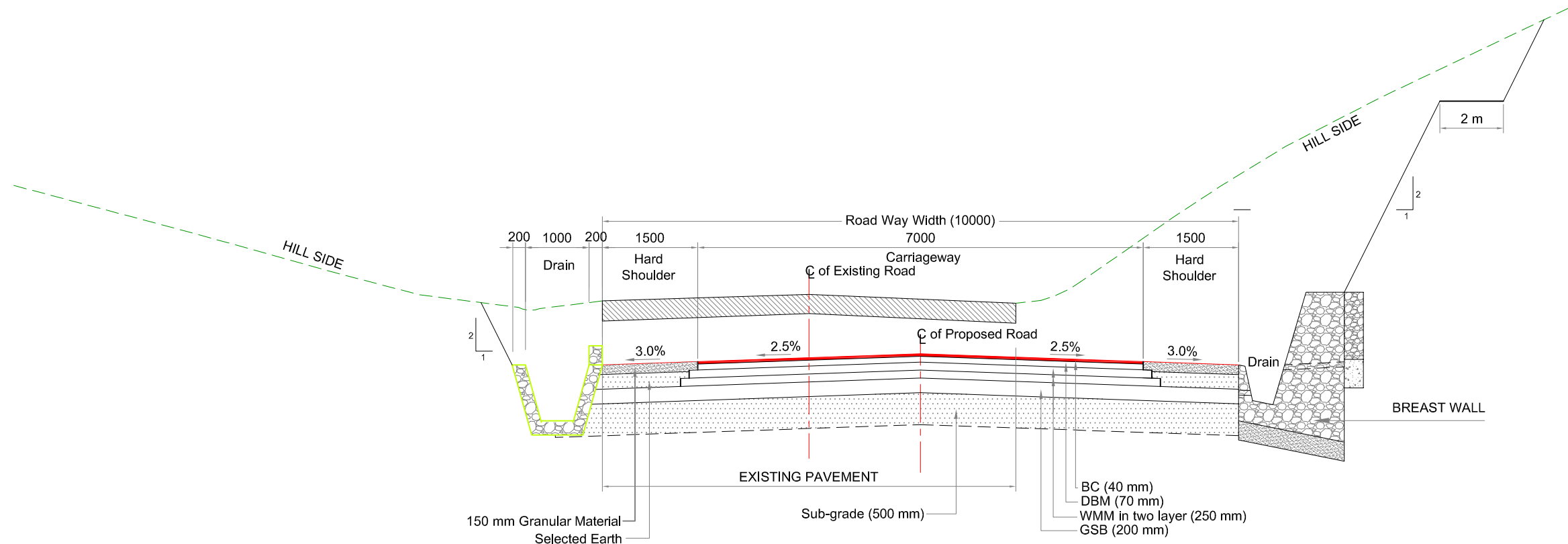
TCS-7 : TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH OPEN TRAPEZOIDAL DRAIN ON HILL SIDE AND EARTHEN SHOULDER ON VALLEY SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)

					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building,3rd Floor, 4 Parliament Street, New Delhi - 110001		TYPICAL CROSS SECTION		CONSULTANT : CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TC			
					DATE: APRIL, 2020		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING,PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR		SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT		PACKAGE - IIIA		REVISION MKD. - R0		SHEET NO. - 03	
							PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-4-JP/Manipur/2017)						DRAWN BY		DESIGNED BY	
													CHECKED BY		ISSUED BY	
													S.MANDAL		B.DAS	
													S.SADHU		A.K.DAS	



TCS-8		
Chainage (Km)		Length (m)
From	To	
69970	70420	450
70900	71120	220
71870	72270	400
74420	74570	150
74770	74920	150
75270	75420	150
75720	76120	400
76320	76420	100
79230	79720	490
80670	80820	150
81070	81370	300
81470	81670	200
81820	81870	50
82420	82570	150
82620	82870	250
83070	83170	100
83370	83470	100
84020	84620	600
84670	84870	200
85635	85720	85
Total Length (m)		4695

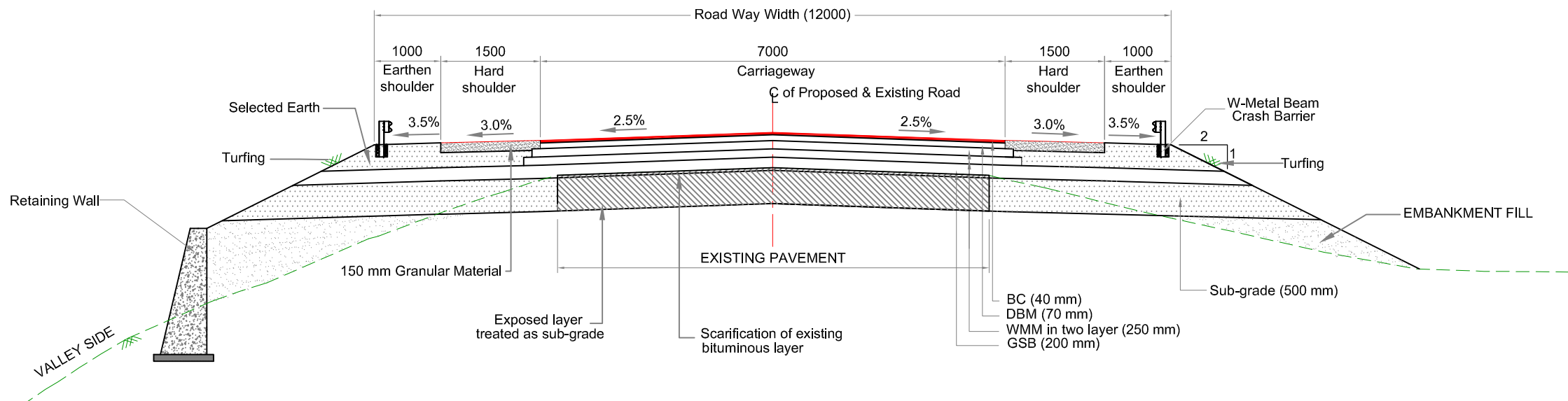
**TCS-8 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOILDER IN RURAL AREA WITH BREAST WALL ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)**



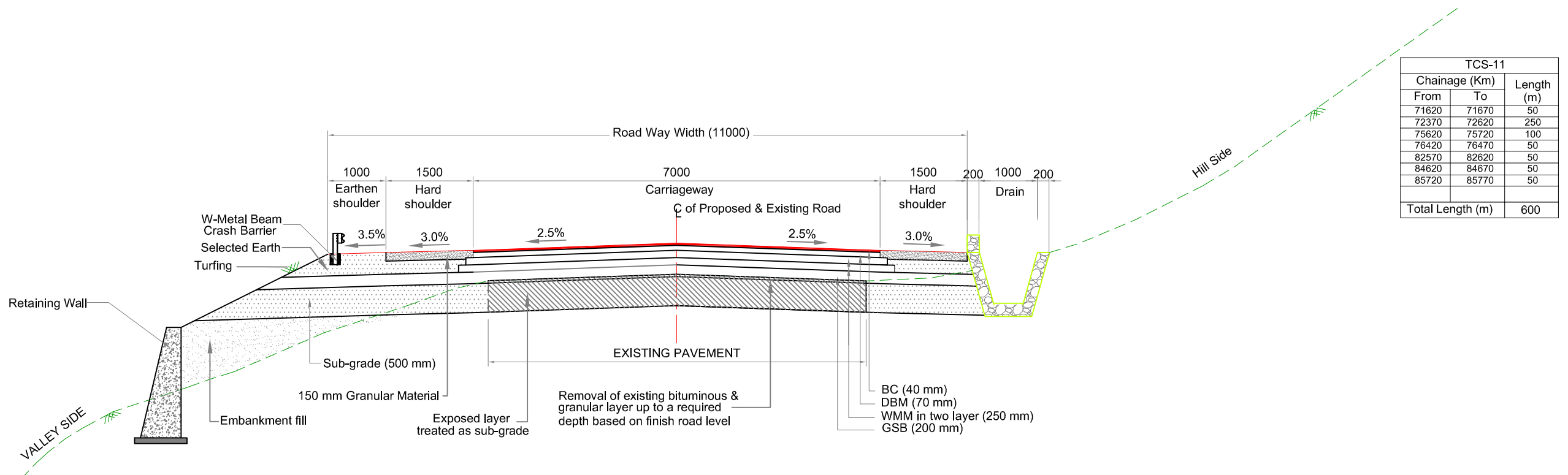
TCS-9		
Chainage (Km)		Length (m)
From	To	
71270	71570	300
72670	73270	600
73370	73620	250
73720	73820	100
74020	74120	100
75570	75620	50
83170	83220	50
83470	83620	150
84970	85120	150
85940	86040	100
Total Length (m)		1850

**TCS-9 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT CUTTING SECTION IN RURAL AREA WITH BREAST WALL ON HILL SIDE AND 'v' DRAIN ON VALLEY SIDE.
(RECONSTRUCTION OF EXISTING PAVEMENT)**

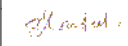
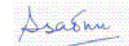
					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building,3rd Floor, 4 Parliament Street, New Delhi - 110001		TYPICAL CROSS SECTION		CONSULTANT : CETEST CE TESTING COMPANY PVT. LTD. Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.		DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TCS			
					DATE: APRIL, 2020		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING,PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR		SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT		PACKAGE - IIIA		REVISION MKD. - R0		SHEET NO. - 04	
REVISIONS							PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-1J-TP/Manipur/2017)						DRAWN BY		DESIGNED BY	
													CHECKED BY		ISSUED BY	
													S.MANDAL		B.DAS	
													S.SADHU		A.K.DAS	

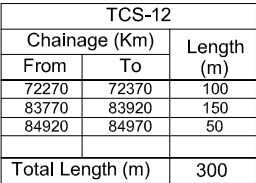


**TCS-10 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)**

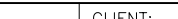
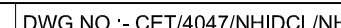


**TCS-11 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND OPEN TRAPEZOIDAL DRAIN ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)**

					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4 Parliament Street, New Delhi - 110001	TYPICAL CROSS SECTION	CONSULTANT :  CETEST CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092. 	DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TCS			
										DATE: APRIL, 2020	REVISION MKD. - R0		SHEET NO. - 05
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANE OF CHURACHANDPUR – TUIVAI ROAD SECTION (LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017)					DRAWN BY	DESIGNED BY	CHECKED BY	ISSUED BY
REVISIONS													
					SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT								
					PACKAGE - IIIA								



TCS-12 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND BREAST WALL ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)

					Scale :- 1 : 75		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4 Parliament Street, New Delhi - 110001	TYPICAL CROSS SECTION		CONSULTANT :  CETEST Engineering Consultants ANISO 9001, 14001 & CHSAS 18001 Certified Company		DWG NO :- CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-III/TC			
					DATE: APRIL, 2020	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR) ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG-NHIDCL/DPR/CT-4-JP/Manipur/2017)	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT	CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		REVISION MKD. - R0		SHEET NO. - 06			
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.				DRAWN BY	DESIGNED BY	CHECKED BY	ISSUED BY				
REVISIONS															
								PACKAGE - IIIA							