

Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
Project Directorate (ADB)
Implementing Agency : DOR, DCID

Project Preparatory Consultants
Under
SASEC Highway Improvement Project (SHIP-PPC)
(ADB Loan No: 3722 Nep)
Contract No. SHIP/PPC/2020/02

Pedestrian Overhead Crossing

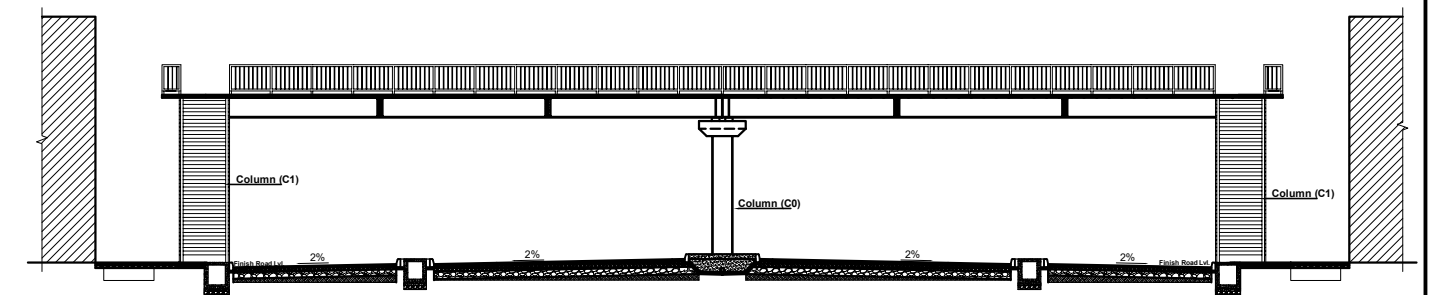
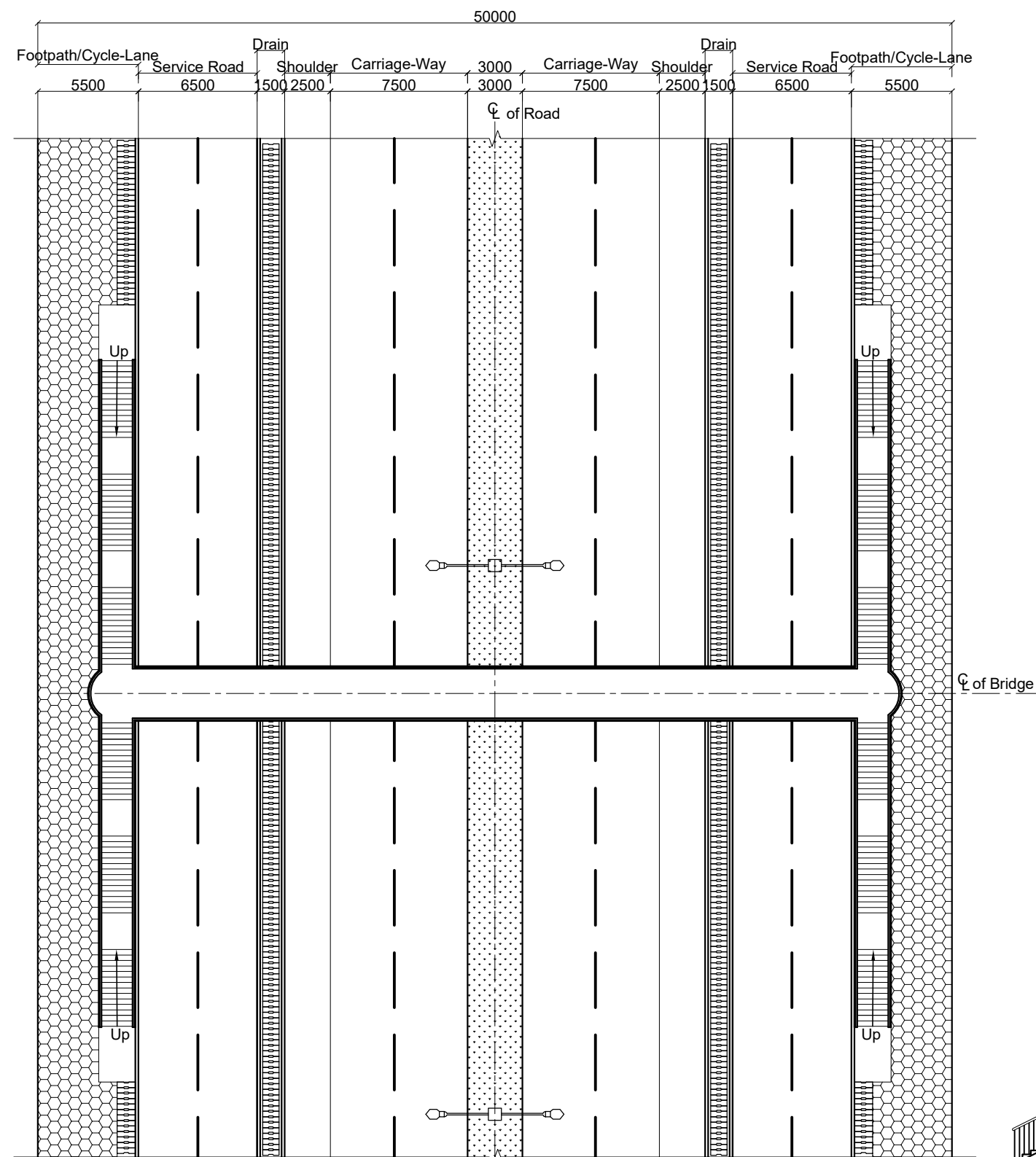
Detailed Drawing

Butwal - Goringhe Sector

December, 2022

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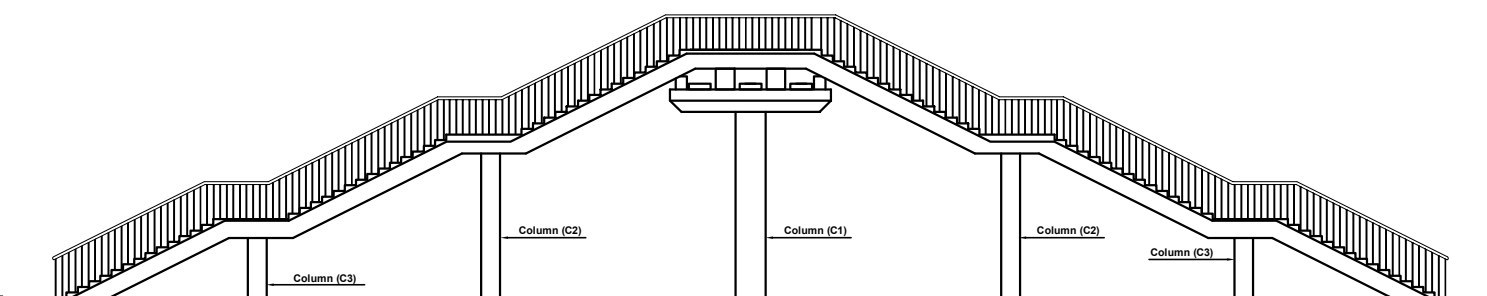
S.No.	DESCRIPTION	DWG. NO	NO. OF SHEETS
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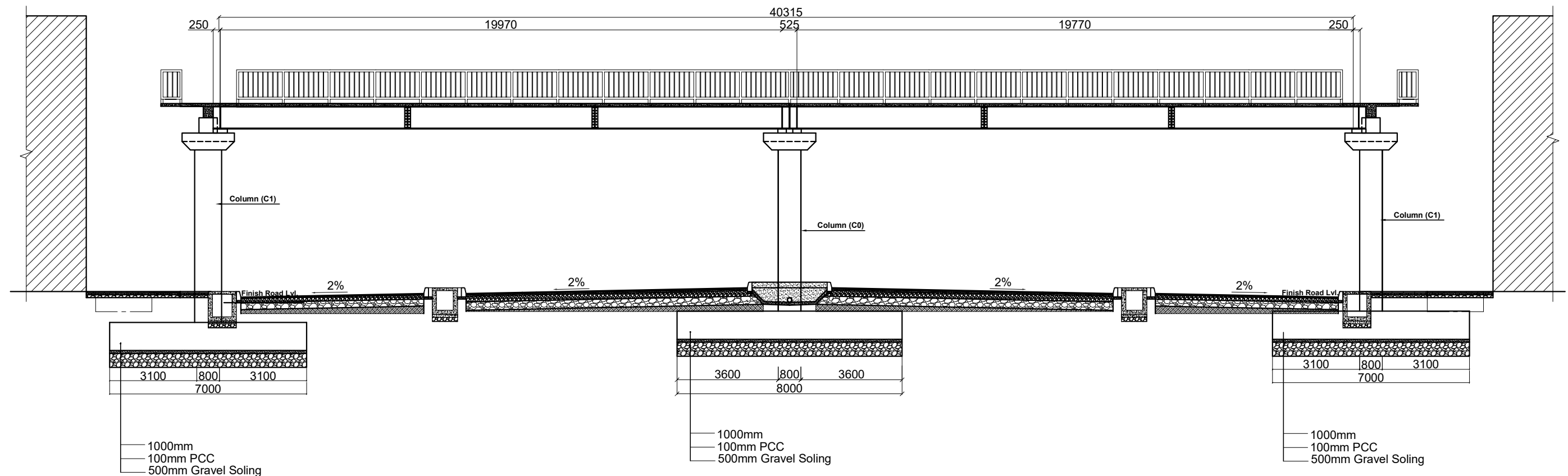
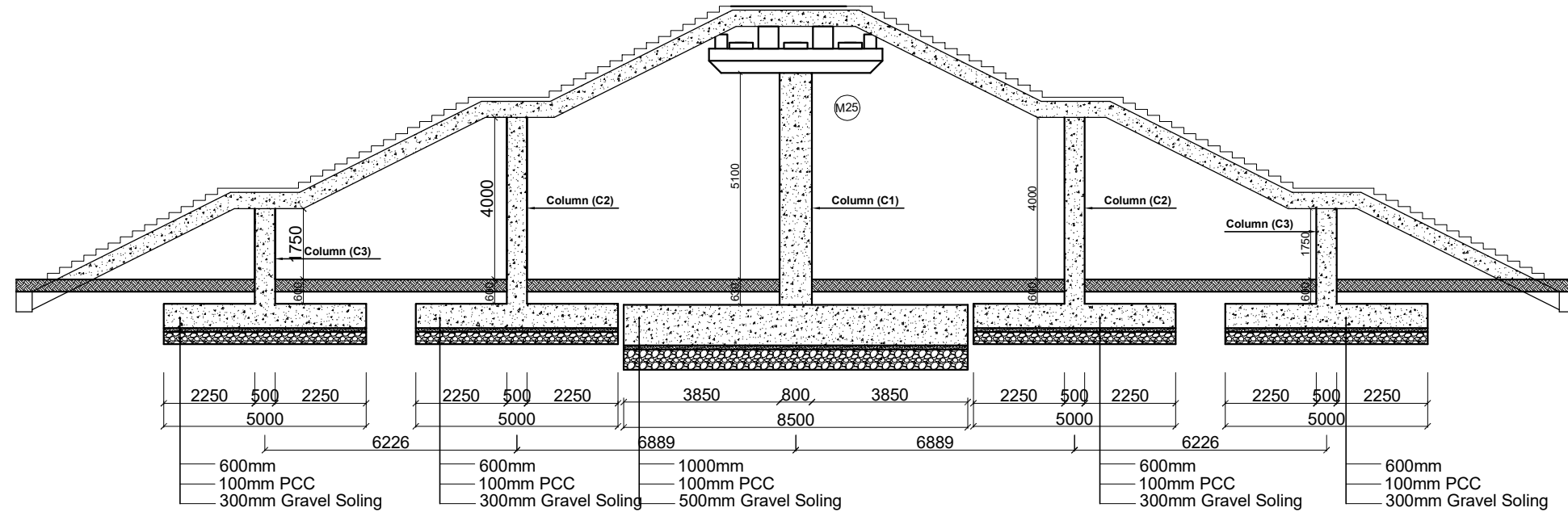
Front Elevation of Pedestrian Crossing
Scale:-1:300

Location of Pedestrian Overhead Crossing

S.No.	Chainage	Location
1.	592 + 980	Belbas
2.	598 + 500	Bamaha Bazar
3.	599 + 920	Rani Bangai Chowk
4.	606 + 410	Commercial Area
5.	610 + 060	Pahila Area
6.	611 + 220	Saljhandi
7.	618 + 050	Piparaha
8.	618 + 780	Banganga
9.	626 + 660	Banganga
10.	627 + 860	
11.	636 + 020	Buddha Bhumi

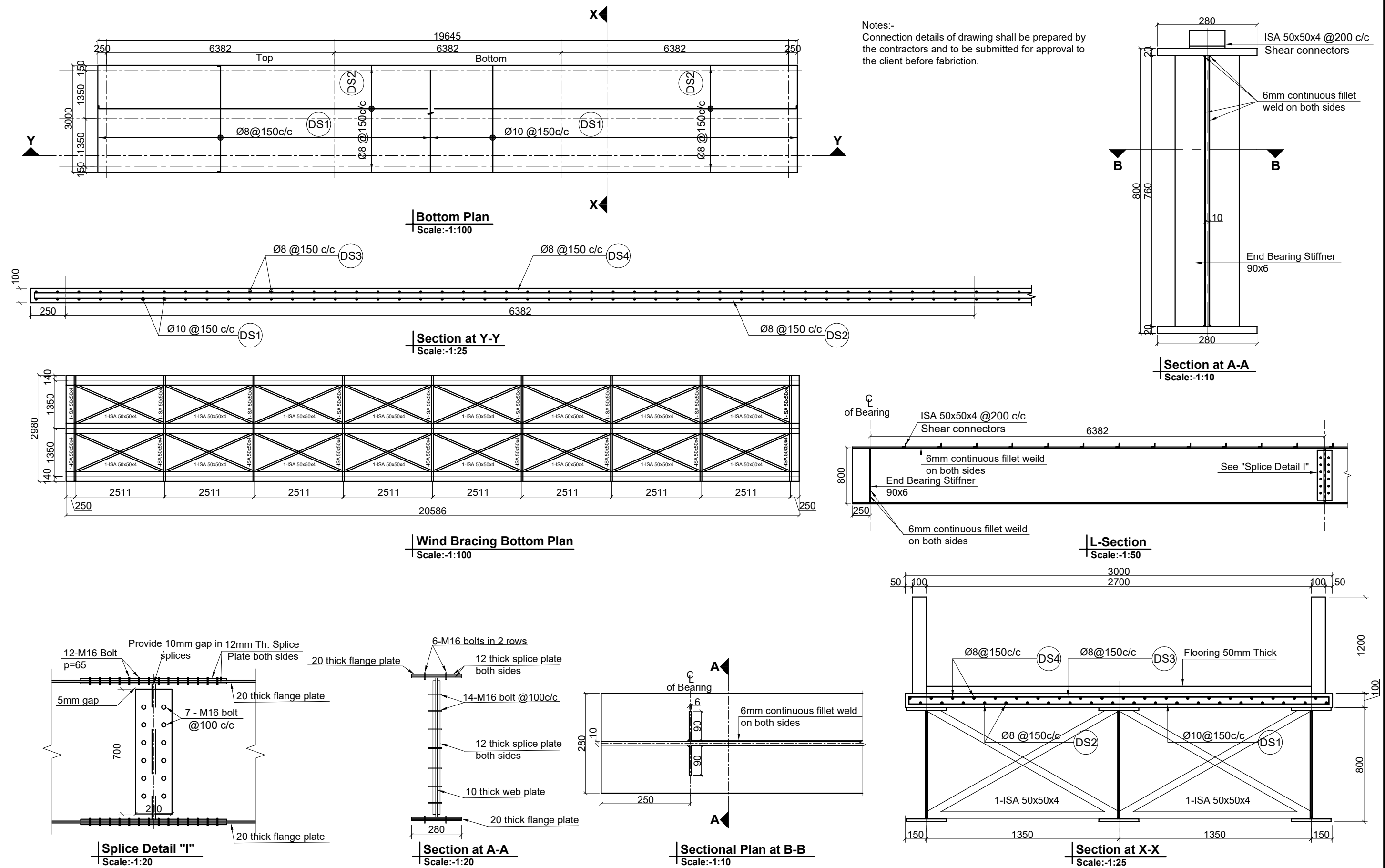


Side Elevation of Pedestrian Crossing
Scale:-1:200

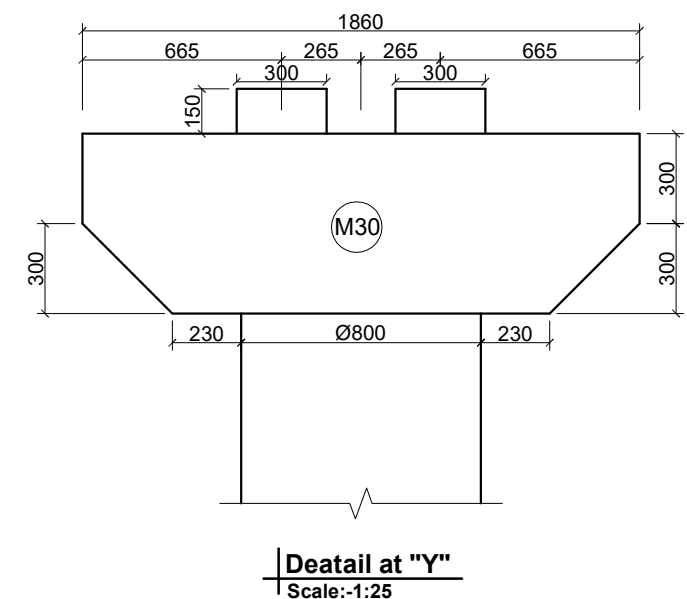
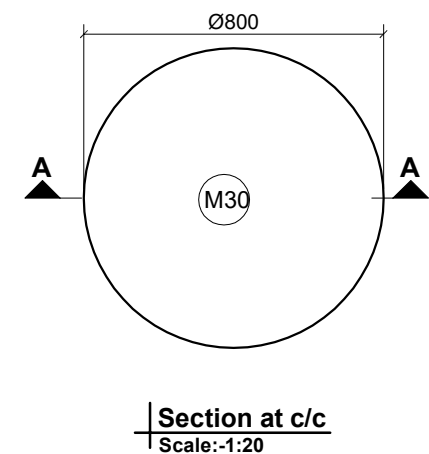
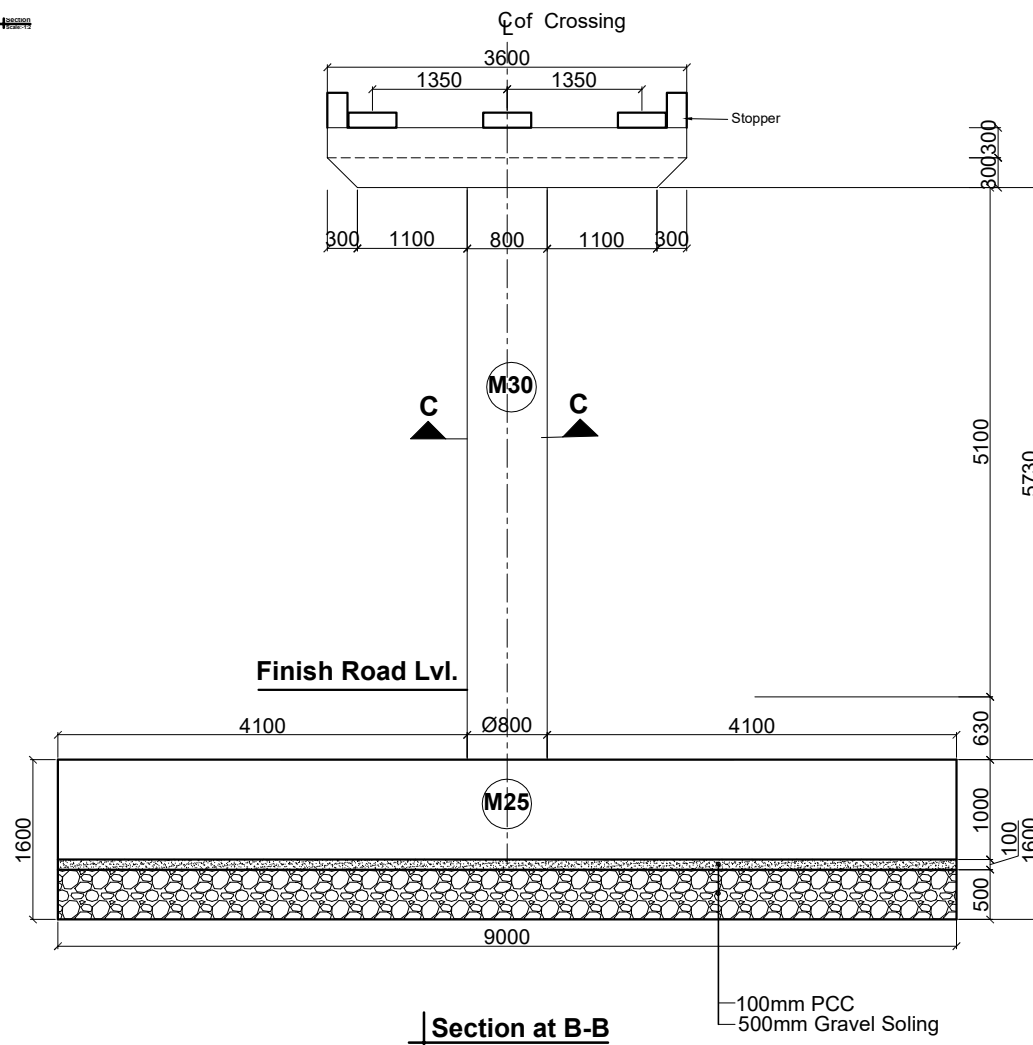
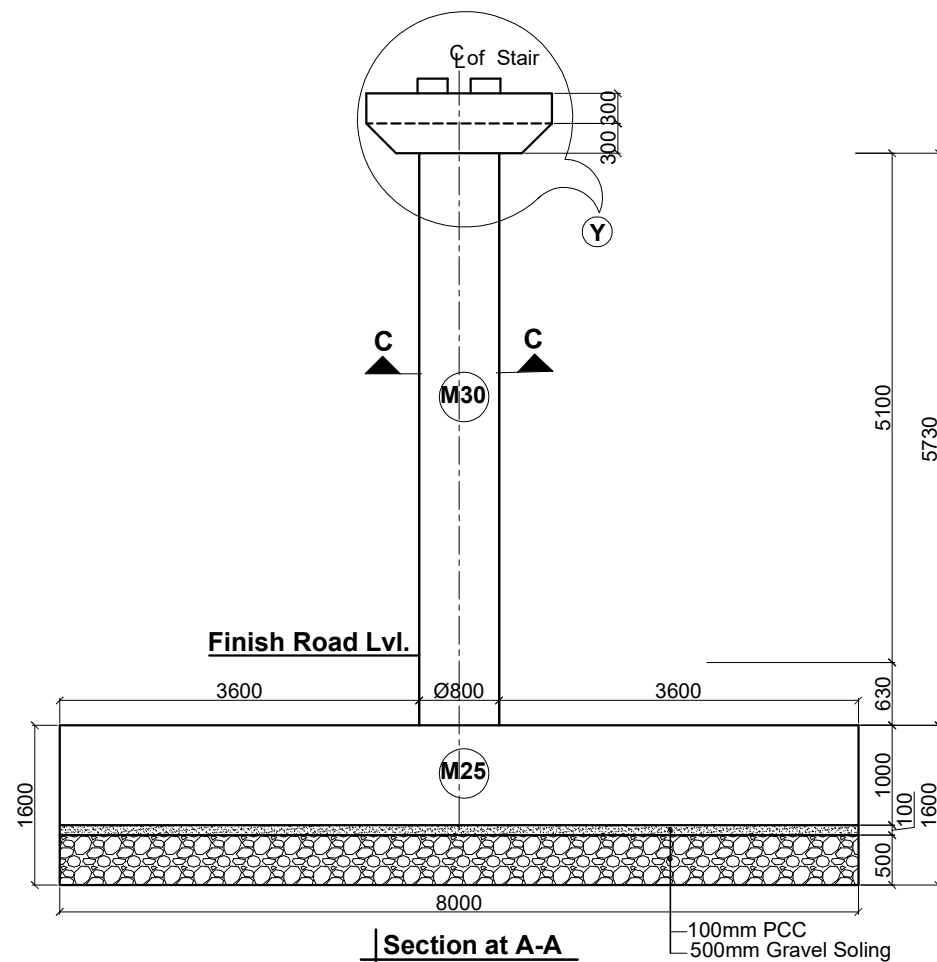
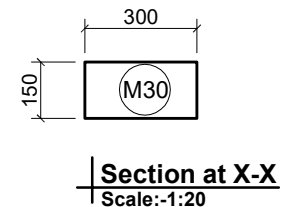
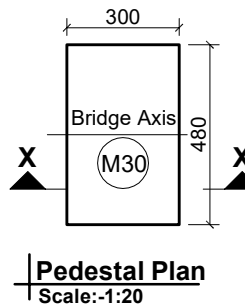
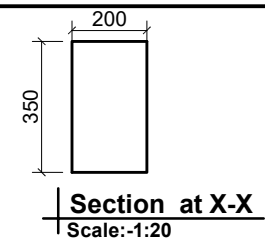
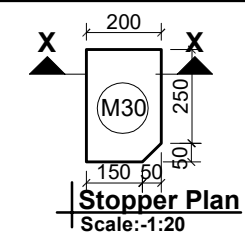
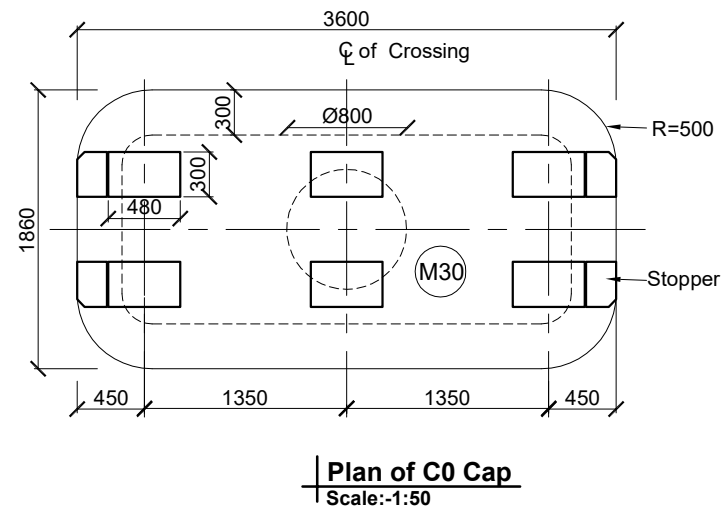
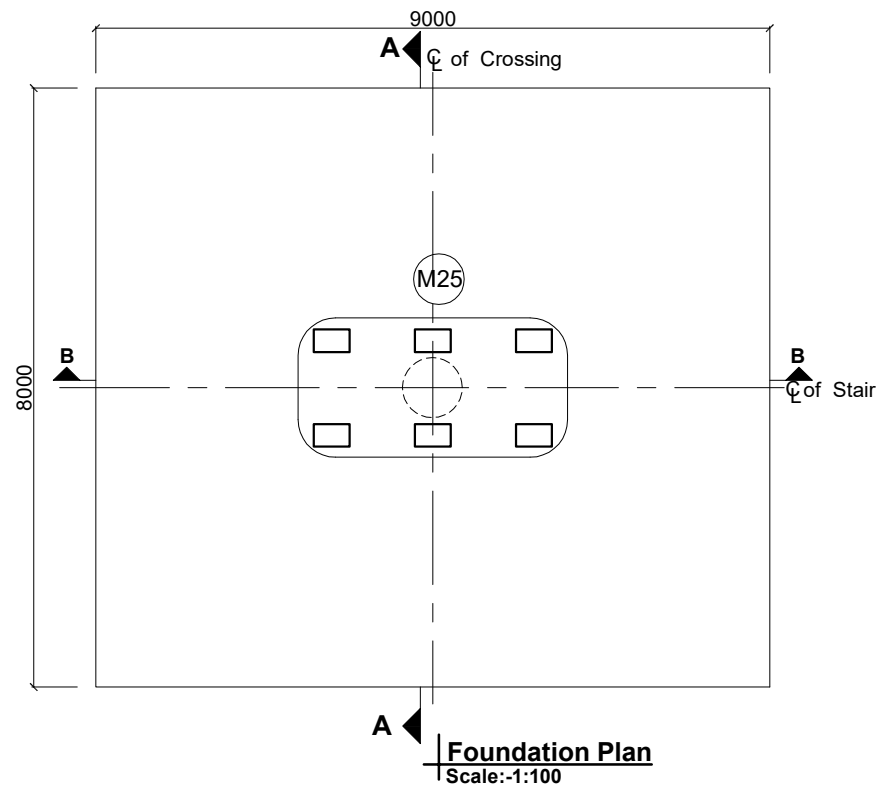


Notes:-
Foundation type/Design to be confirmed after
Confirmatory boring during construction.

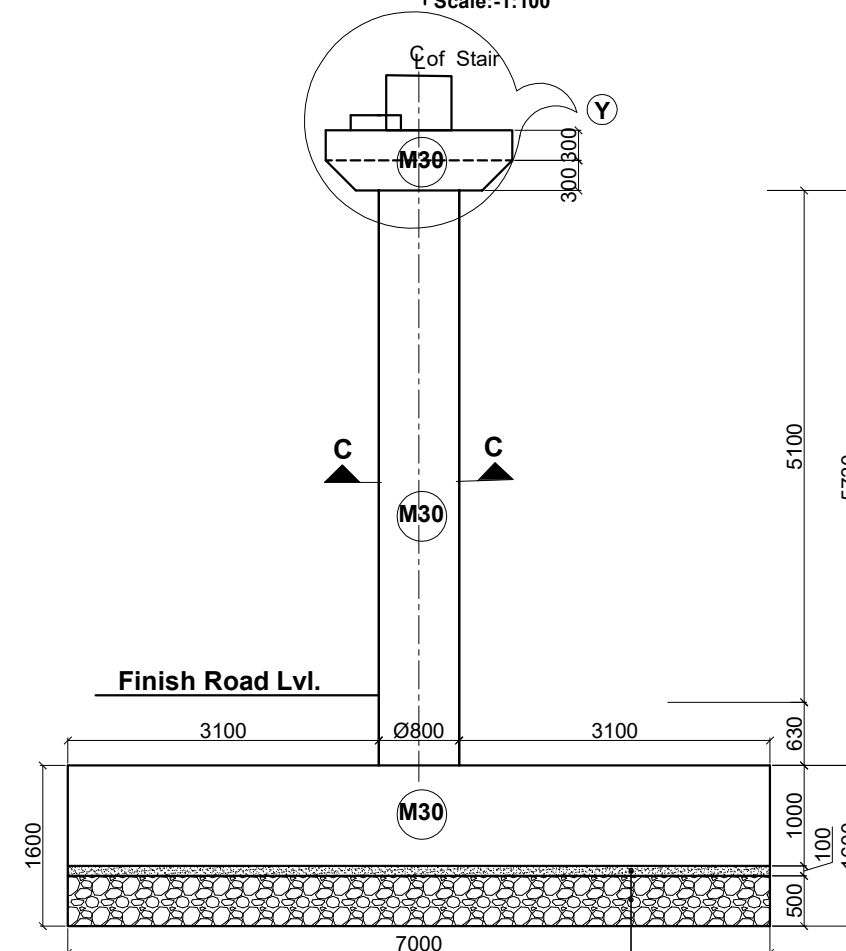
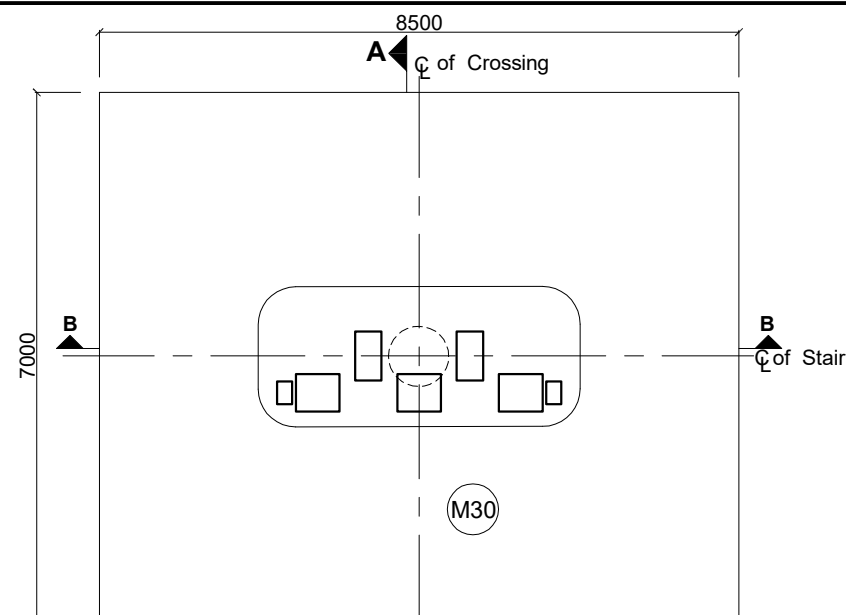
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	 Soosung Engineering Co. Ltd, Korea in association with ERM P (Ltd) and  JPE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing	As Shown		Designed by:	P.Shrestha				December,2022
		ROAD NAME:					General Arrangement Foundation Details	DWG.NO.:		1		
		East West Highway (H01)		SHEET NO.:				1.3				
		Butwal - Gorusinghe Section										
							Checked by:	P. Upadhyaya				
							Approved by:	Dr. T.H.Choi				



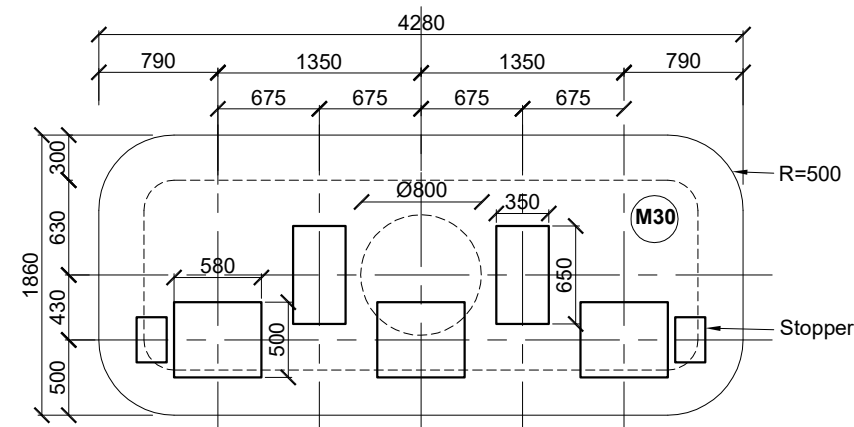
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					Designed by:	P.Shrestha			December, 2022
					Checked by:	P. Upadhyaya			DWG.NO.: 1
					Approved by:	Dr. T.H.Choi			SHEET NO.: 2.0



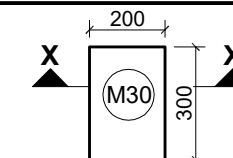
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	Korea		ROAD NAME:		Column (C0)				Checked by:		P. Upadhyaya			DWG.NO.:
	in association with		East West Highway (H01)		Concrete Outline				Approved by:		Dr. T.H.Choi			1
	ERM P (Ltd)		Butwal - Gorusinghe Section											SHEET NO.:
	and													3.1
	TPE-Tech Studio of Engineering													
	Nepal													



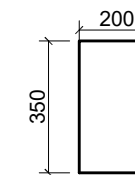
Section at A-A
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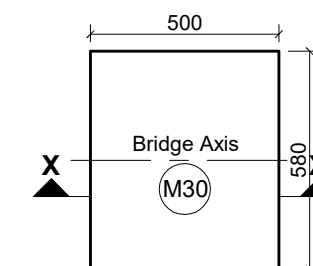
Plan of C1 Cap
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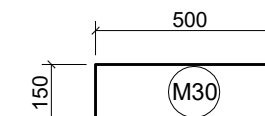
Stopper Plan
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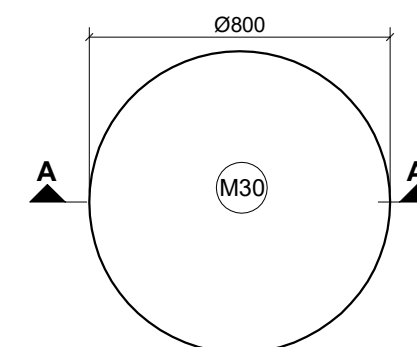
Section at X-X
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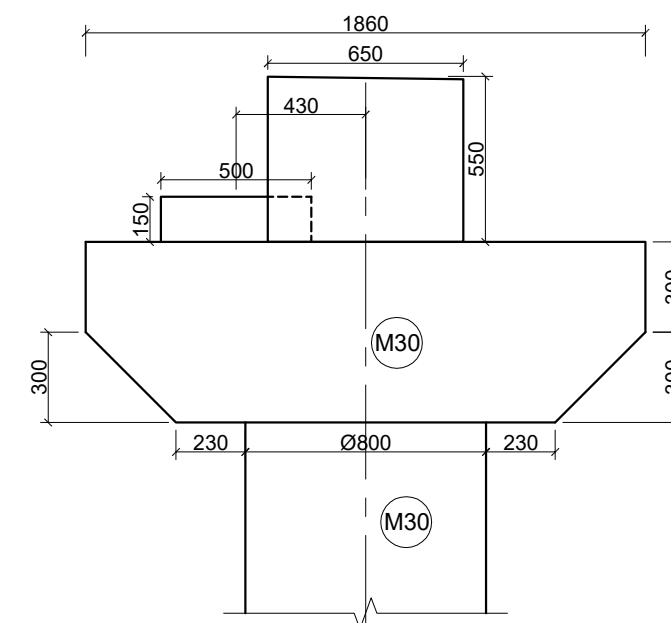
Pedestal Plan
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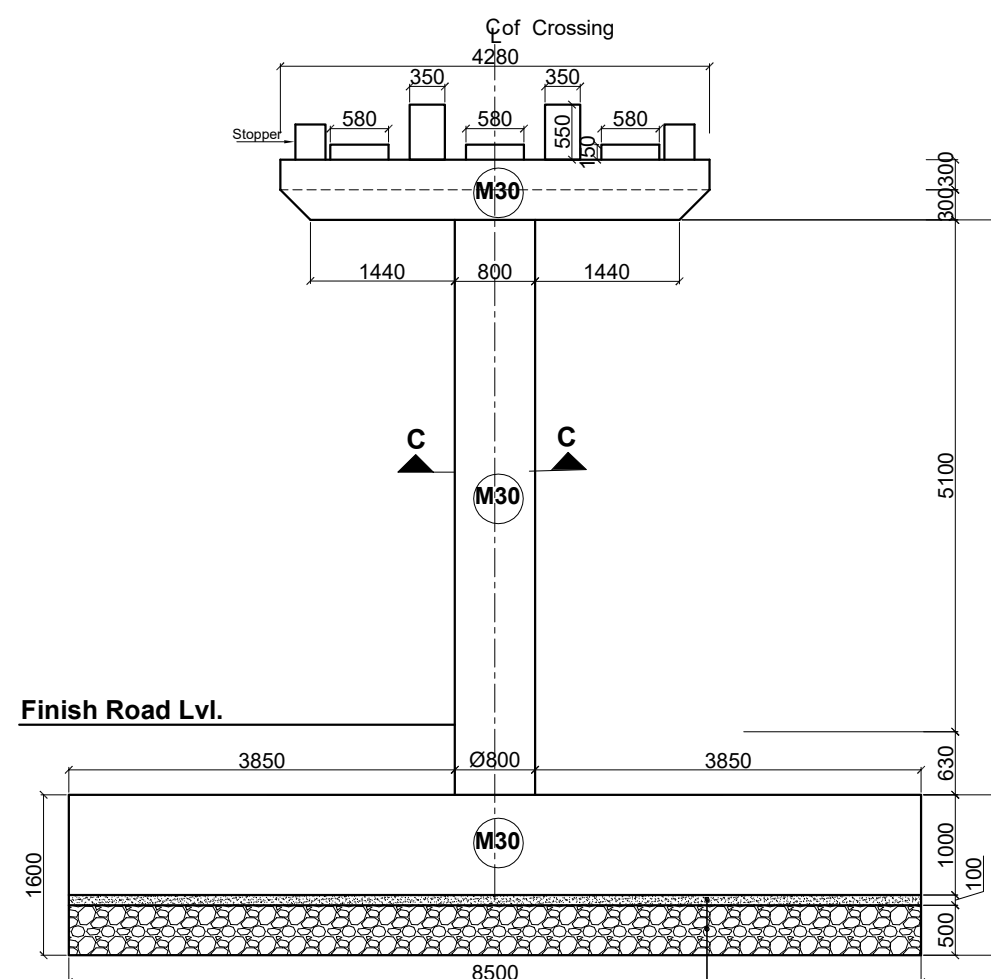
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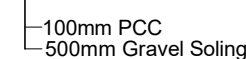
Section at c/c
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Detail at "Y"
Scale:-1:25

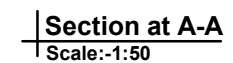
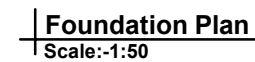
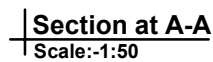
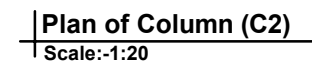
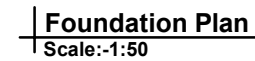
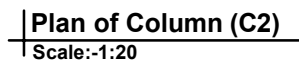


Section at B-B
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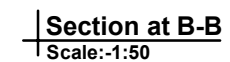
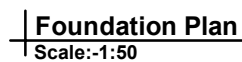
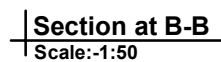
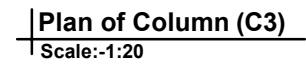
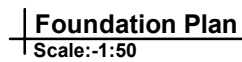
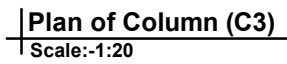


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	 Soosung Engineering Co. Ltd, Korea in association with ERM P (Ltd) and  TSE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing	As Shown	Designed by:	P.Shrestha				December,2022	
		ROAD NAME:				Column (C1) Concrete Outline	Checked by:	P. Upadhyaya				DWG.NO.:
		East West Highway (H01)		Approved by:			Dr. T.H.Choi				1	SHEET NO.:
		Butwal - Gorusinghe Section		3.3								

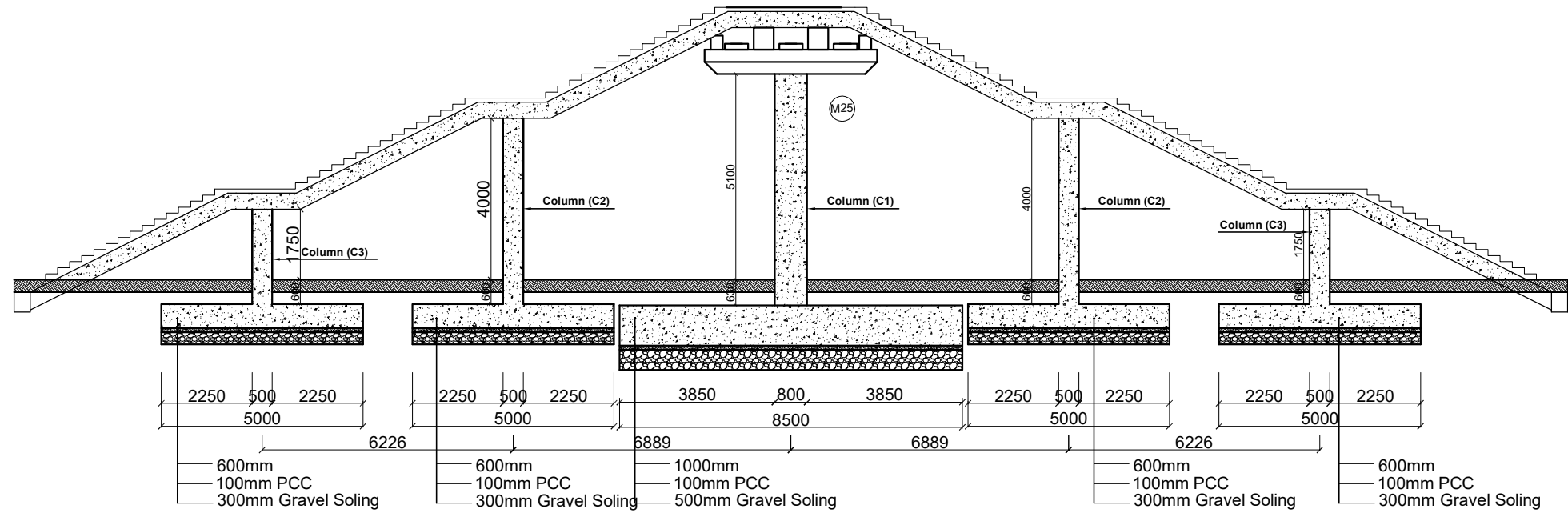
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	 Soosung Engineering Co. Ltd, Korea in association with ERMC P (Ltd) and ITE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing	As Shown	Designed by:	P.Shrestha				December,2022	
		ROAD NAME:										DWG.NO.:
		East West Highway (H01)				Column (C1)	Checked by:	P. Upadhyaya				1
		Butwal - Gorusinghe Section				Reinforcment Details	Approved by:	Dr. T.H.Choi				SHEET NO.:
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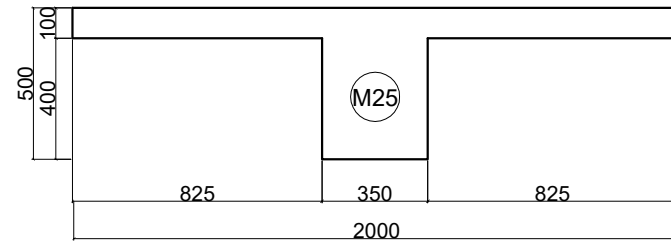
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	 Soosung Engineering Co. Ltd, Korea in association with ERMC P (Ltd) and  TTE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing	As Shown	Designed by:	P.Shrestha				December,2022
		ROAD NAME:		Column (C2) Concrete outline & Reinforcrment Details		Checked by:	P. Upadhyaya				
		East West Highway (H01)				Approved by:	Dr. T.H.Choi				
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											SHEET NO.: 3.5



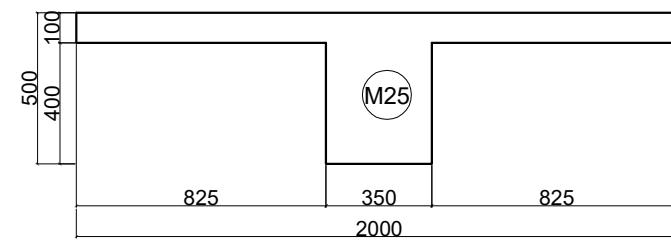
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	 Soosung Engineering Co. Ltd, Korea in association with ERM P (Ltd) and  TTE-Tech Studio of Engineering Nepal	DOR, DCID	Pedestrian Overhead Crossing	As Shown	Designed by: P.Shrestha						December,2022					
		ROAD NAME:														
		East West Highway (H01)	Column (C3)								Checked by: P. Upadhyaya					DWG.NO.: 1
		Butwal - Gorusinghe Section	Concrete outline & Reinforcment Details								Approved by: Dr. T.H.Choi					



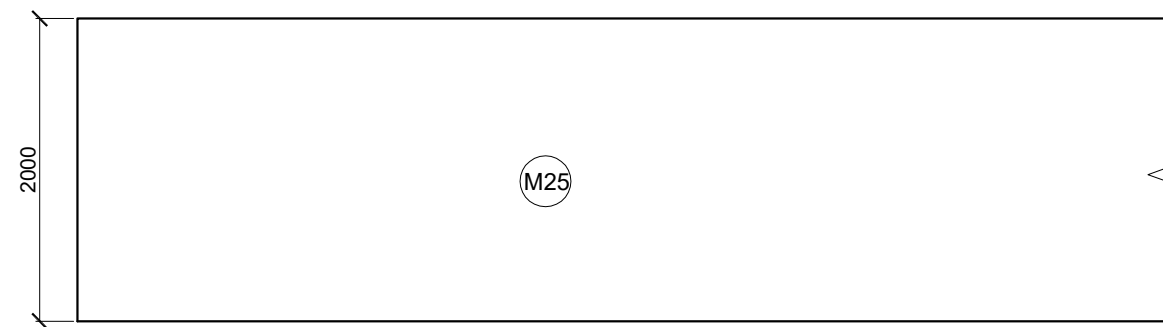
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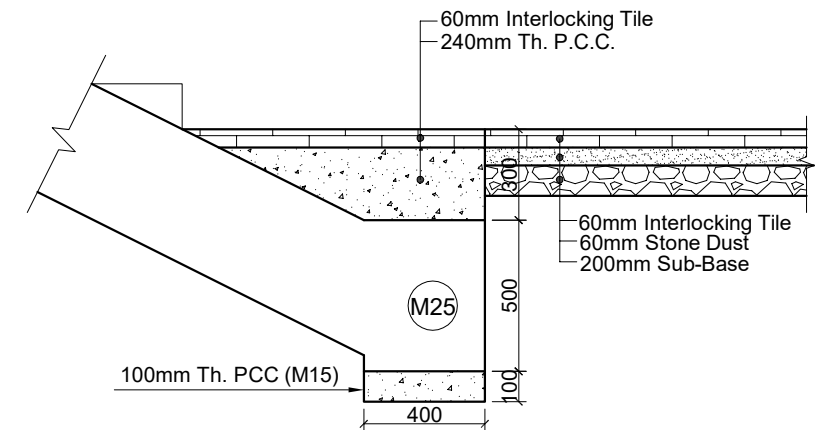
Section at A-A (Mid-Span)
Scale:-1:25



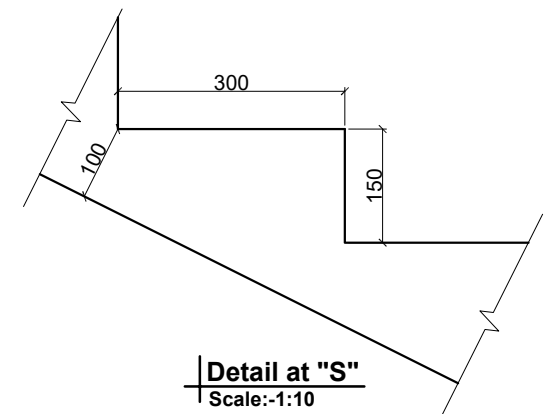
Section at B-B (Support)
Scale:-1:25



Waist Slab (Plan)
Scale:-1:50

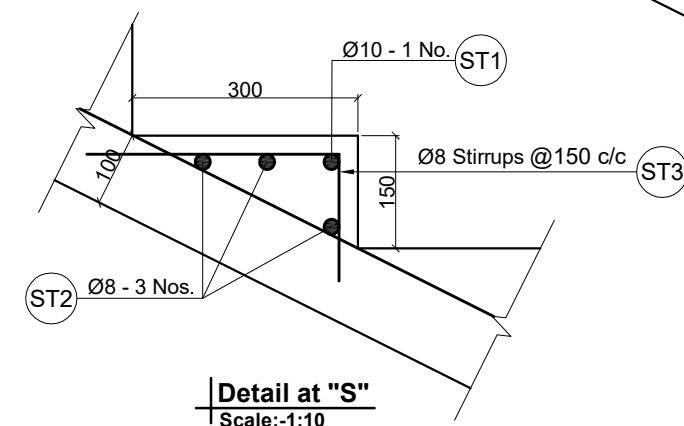
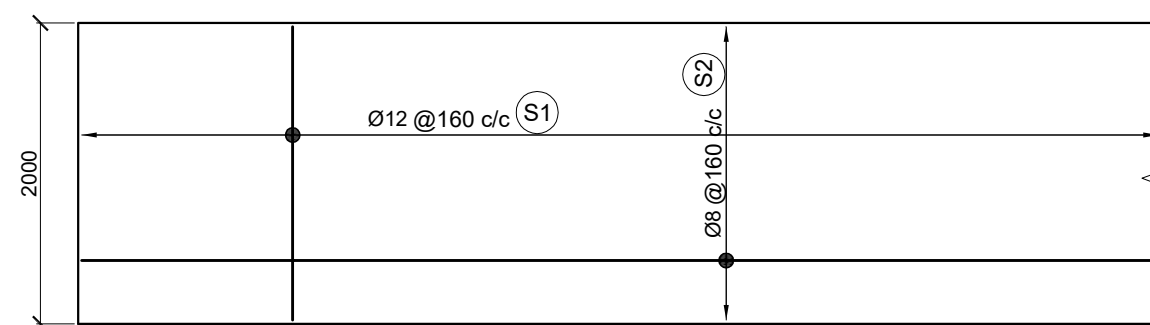
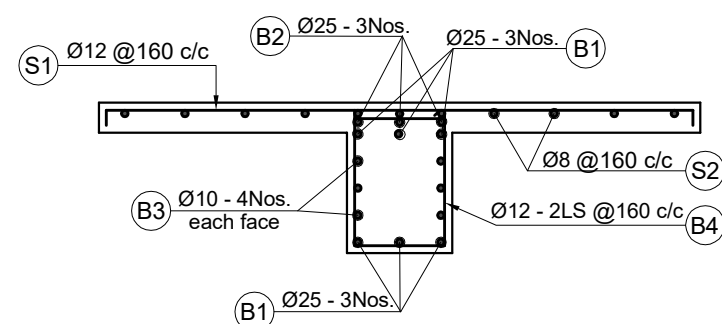
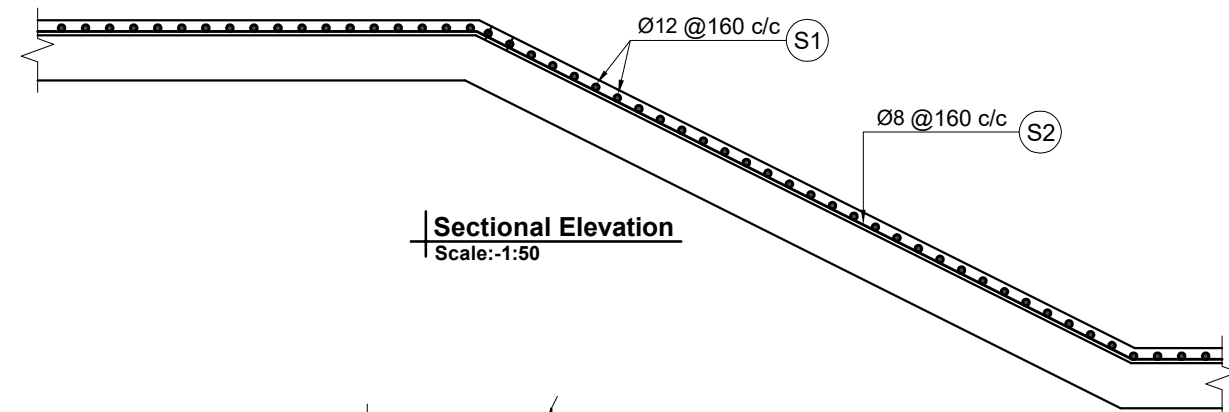
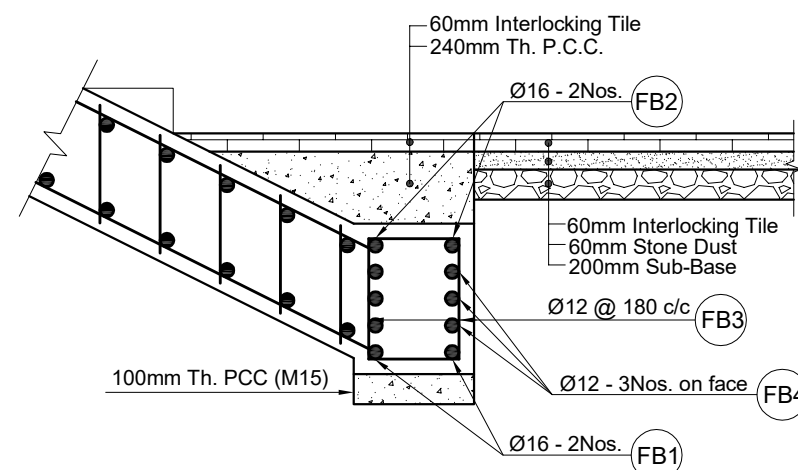
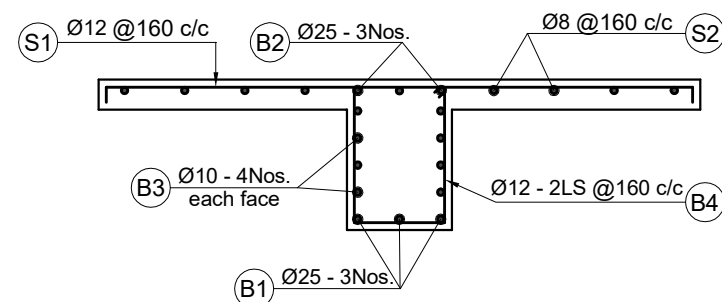
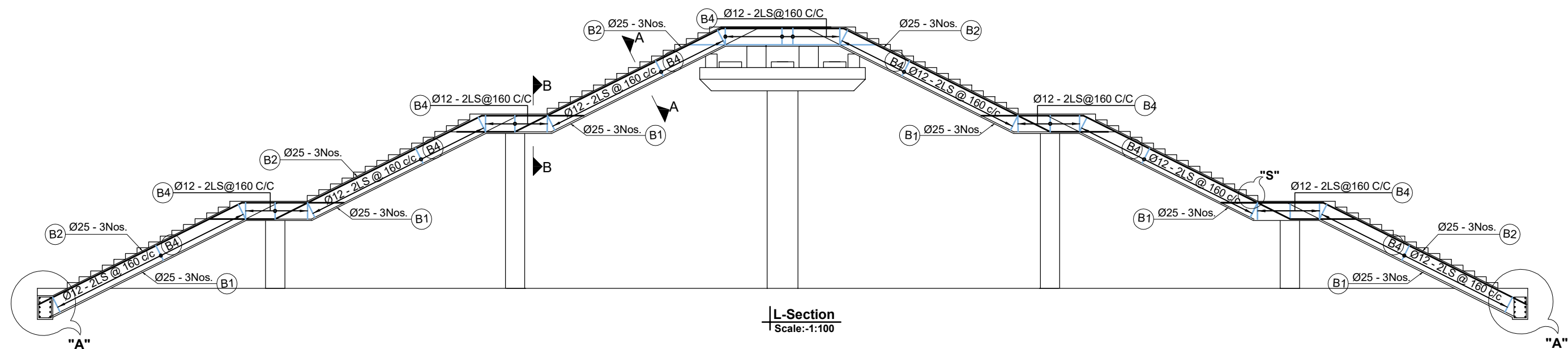


Detail at "A"
Scale:-1:25



Detail at "S"
Scale:-1:10

Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Project Directorate Office (ADB) SASEC Highway Improvement Project- Project Preparatory Consultant (SHIP-PPC) ADB Loan No: 3722-NEP	CONSULTANT:		IMPLEMENTING AGENCY:	SHEET TITLE:	SCALE:		NAME	SIGNATURE	REV NO.	DESCRIPTION	DATE:
	 Soosung Engineering Co. Ltd, Korea in association with  ERM P (Ltd) and  JPE-Tech Studio of Engineering Nepal	DOR, DCID	Pedestrian Overhead Crossing	As Shown	Designed by:	P.Shrestha					December,2022
		ROAD NAME:							DWG.NO.:		
		East West Highway (H01)	Staircase Concrete Outline		Checked by:	P. Upadhyaya				1	
		Butwal - Gorusinghe Section			Approved by:	Dr. T.H.Choi				SHEET NO.:	
											4.1



Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Project Directorate Office (ADB) SASEC Highway Improvement Project- Project Preparatory Consultant (SHIP-PPC) ADB Loan No: 3722-NEP	CONSULTANT:  Soosung Engineering Co. Ltd, Korea in association with ERM P (Ltd) and  TPE-Tech Studio of Engineering Nepal		IMPLEMENTING AGENCY: DOR, DCID ROAD NAME: East West Highway (H01) Butwal - Gorusinghe Section	SHEET TITLE: Pedestrian Overhead Crossing Staircase Reinforcment Details	SCALE: As Shown	Designed by: Checked by: Approved by:	NAME P.Shrestha P. Upadhyaya Dr. T.H.Choi	SIGNATURE   	REV NO.	DESCRIPTION	DATE: December,2022 DWG.NO.: 1 SHEET NO.: 4.2
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BAR BENDING SCHEDULE OF STINGER BEAM,WAIST SLAB AND STEP FOR ONE LEG						
Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)
FB1		16	2	2.020	1.578	6.376
FB2		16	2	2.020	1.578	6.376
FB3		12	12	1.830	0.888	19.496
FB4		12	6	1.920	0.888	10.228
	1st Flight	0	0	0.000	0.000	0.000
B1		25	3	10.240	3.853	118.375
B2		25	3	7.565	3.853	87.452
	2nd Flight	0	0	0.000	0.000	0.000
B1		25	3	10.320	3.853	119.300
B2		25	3	10.310	3.853	119.185
	3rd Flight					
B1		25	3	10.100	3.853	116.757
B2		25	3	9.050	3.853	104.619
B3		10	8	20.530	0.617	101.260
B4		12	130	1.590	0.888	183.512
S1		12	130	2.020	0.888	233.141
S2		8	13	20.530	0.395	105.311
ST1		10	44	1.920	0.617	52.085
ST2		8	132	1.920	0.395	100.004
ST2		8	563	0.480	0.395	106.633
TOTAL OF STINGER BEAM, WAIST SLAB AND STEP FOR ONE LEG						1590.111
TOTAL OF STINGER BEAM, WAIST SLAB AND STEP FOR ONE LEG (IN METRIC TON)						1.590

BAR BENDING SCHEDULE OF COLUMN C0						
Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)
F1		32	70	8.700	6.313	3844.836
F2		20	54	9.700	2.466	1291.773
F3		20	46	8.700	2.466	986.956
F4		20	41	9.700	2.466	980.790
F5		12	5	33.700	0.888	149.597
PS-1		32	12	7.600	6.313	575.778
PS-2		10	98	2.260	0.617	136.551
PS-3		20	6	3.840	2.466	56.820
PS-4		16	21	1.9	1.578	62.976
PS-5		12	21	7.240	0.888	134.984
PS-6		12	8	3.520	0.888	25.001
PS-7		16	10	4.299	1.578	67.853
BAR BENDING SCHEDULE OF COLUMN C0						8313.914
BAR BENDING SCHEDULE OF COLUMN C0 (IN METRIC TON)						8.314

BAR BENDING SCHEDULE OF PEDESTAL MESH OF DECK SLAB BEAM						
LABEL	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)
PED1		8	8	0.580	0.395	1.831
PED2		8	10	0.220	0.395	0.868
TOTAL OF ONE PEDESTAL MESH						2.699
TOTAL OF ONE PEDESTAL MESH(IN METRIC TON)						0.003

BAR BENDING SCHEDULE OF COLUMN C1						
Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)
F1		20	54	7.900	2.466	1052.062
F2		20	44	9.400	2.466	1020.002
F3		20	43	7.900	2.466	837.753
F4		20	36	9.400	2.466	834.547
F5		12	5	30.600	0.888	135.836
PS-1		32	12	8.200	6.313	621.235
PS-2		10	98	2.260	0.617	136.551
PS-3		20	11	4.520	2.466	122.617
PS-4		16	25	1.9	1.578	74.971
PS-5		12	25	7.240	0.888	160.695
PS-6		12	8	4.280	0.888	30.399
PS-7		16	10	4.940	1.578	77.970
BAR BENDING SCHEDULE OF COLUMN C1						5104.638
BAR BENDING SCHEDULE OF COLUMN C1 (IN METRIC TON)						5.105

BAR BENDING SCHEDULE OF DECK SLAB						
Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)
DS1		10	132	2.920	0.617	237.639
DS2		8	21	19.590	0.395	162.328
DS3		8	132	2.920	0.395	152.089
DS4		8	21	19.590	0.395	162.328
						714.384
BAR BENDING SCHEDULE OF DECK SLAB (IN METRIC TON)						0.714

Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Project Directorate Office (ADB) SASEC Highway Improvement Project- Project Preparatory Consultant (SHIP-PPC) ADB Loan No: 3722-NEP	CONSULTANT:		IMPLEMENTING AGENCY:		SHEET TITLE:	SCALE:		NAME	SIGNATURE	REV NO.	DESCRIPTION	DATE:
	 Soosung Engineering Co. Ltd, Korea in association with  ERM C P (Ltd) and  TPE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing	As Shown	Designed by:	P.Shrestha					December,2022
		ROAD NAME:				Barbending Schedule	Checked by:	P. Upadhyaya				DWG.NO.:
		East West Highway (H01)		Approved by:			Dr. T.H.Choi				SHEET NO.:	4.3
		Butwal - Gorusinghe Section										

BAR BENDING SCHEDULE OF COLUMN C2							BAR BENDING SCHEDULE OF COLUMN C3							BAR BENDING SCHEDULE OF STAIRCASE(FOR ONE STEP)																																																														
Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)	Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)	LABEL	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)																																																								
F1		16	26	5.300	1.578	217.495	F1		16	26	5.300	1.578	217.495	ST1		10	1	1.920	0.617	1.184																																																								
F2		16	26	5.300	1.578	217.495	F2		16	26	5.300	1.578	217.495	ST2		8	3	1.920	0.395	2.273																																																								
F3		12	28	5.300	0.888	131.752	F3		12	28	5.300	0.888	131.752	ST3		8	14	0.532	0.395	2.939																																																								
F4		12	28	5.300	0.888	131.752	F4		12	28	5.300	0.888	131.752	TOTAL OF ONE STEP						6.395																																																								
													TOTAL OF ONE STEP (IN METRIC TON)						0.006																																																									
F5		12	3	19.600	0.888	52.204	F5		12	3	19.600	0.888	52.204	<table><tr><th colspan="7">BAR BENDING SCHEDULE OF DECK SLAB</th></tr><tr><th>Label</th><th>SHAPE OF BAR IN mm (NOT TO SCALE)</th><th>Ø OF BARS (mm)</th><th>NO. OF BARS</th><th>LENGTH (m)</th><th>WEIGHT/LENGTH (kG/m)</th><th>TOTAL WEIGHT (kG)</th></tr><tr><td>DS1</td><td></td><td>10</td><td>132</td><td>2.920</td><td>0.617</td><td>237.639</td></tr><tr><td>DS2</td><td></td><td>8</td><td>21</td><td>19.590</td><td>0.395</td><td>162.328</td></tr><tr><td>DS3</td><td></td><td>8</td><td>132</td><td>2.920</td><td>0.395</td><td>152.089</td></tr><tr><td>DS4</td><td></td><td>8</td><td>21</td><td>19.590</td><td>0.395</td><td>162.328</td></tr><tr><td colspan="6"></td><td>714.384</td></tr><tr><td colspan="6">BAR BENDING SCHEDULE OF DECK SLAB (IN METRIC TON)</td><td>0.714</td></tr></table>							BAR BENDING SCHEDULE OF DECK SLAB							Label	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kG/m)	TOTAL WEIGHT (kG)	DS1		10	132	2.920	0.617	237.639	DS2		8	21	19.590	0.395	162.328	DS3		8	132	2.920	0.395	152.089	DS4		8	21	19.590	0.395	162.328							714.384	BAR BENDING SCHEDULE OF DECK SLAB (IN METRIC TON)						0.714
BAR BENDING SCHEDULE OF DECK SLAB																																																																												
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						714.384																																																																						
BAR BENDING SCHEDULE OF DECK SLAB (IN METRIC TON)						0.714																																																																						
PS-1							20	9	6.110	2.466	135.614	PS-1		16	9	3.860	1.578	54.832																																																										
PS-2		10	78	1.320	0.617	63.479	PS-2		10	48	1.320	0.617	39.064																																																															
BAR BENDING SCHEDULE OF COLUMN C2						949.791	BAR BENDING SCHEDULE OF COLUMN C3						844.593																																																															
BAR BENDING SCHEDULE OF COLUMN C2 (IN METRIC TON)						0.950	BAR BENDING SCHEDULE OF COLUMN C3 (IN METRIC TON)						0.845																																																															

BAR BENDING SCHEDULE OF PEDESTAL MESH OF STAIRCASE BEAM						
LABEL	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kg/m)	TOTAL WEIGHT (kg)
PS1a		20	4	2.190	2.466	21.604
PS5a		12	5	1.710	0.888	7.591
PS6a		12	8	0.570	0.888	4.048
TOTAL OF ONE PEDESTAL MESH						33.243
TOTAL OF ONE PEDESTAL MESH(IN METRIC TON)						0.033

BAR BENDING SCHEDULE OF STOPPER(FOR ONE)						
LABEL	SHAPE OF BAR IN mm (NOT TO SCALE)	Ø OF BARS (mm)	NO. OF BARS	LENGTH (m)	WEIGHT/LENGTH (kg/m)	TOTAL WEIGHT (kg)
ST1		16	8	0.820	1.578	10.354
ST2		10	4	1.120	0.617	2.762
TOTAL OF ONE STOPPER						13.116
TOTAL OF ONE STOPPER(IN METRIC TON)						0.013

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	 Soosung Engineering Co. Ltd, Korea in association with ERM P (Ltd) and  JTE-Tech Studio of Engineering Nepal	DOR, DCID		Pedestrian Overhead Crossing		As Shown		Designed by:		P.Shrestha								December,2022	
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		East West Highway (H01)		Approved by:						Dr. T.H.Choi								SHEET NO.:	
		Butwal - Gorusinghe Section																	

