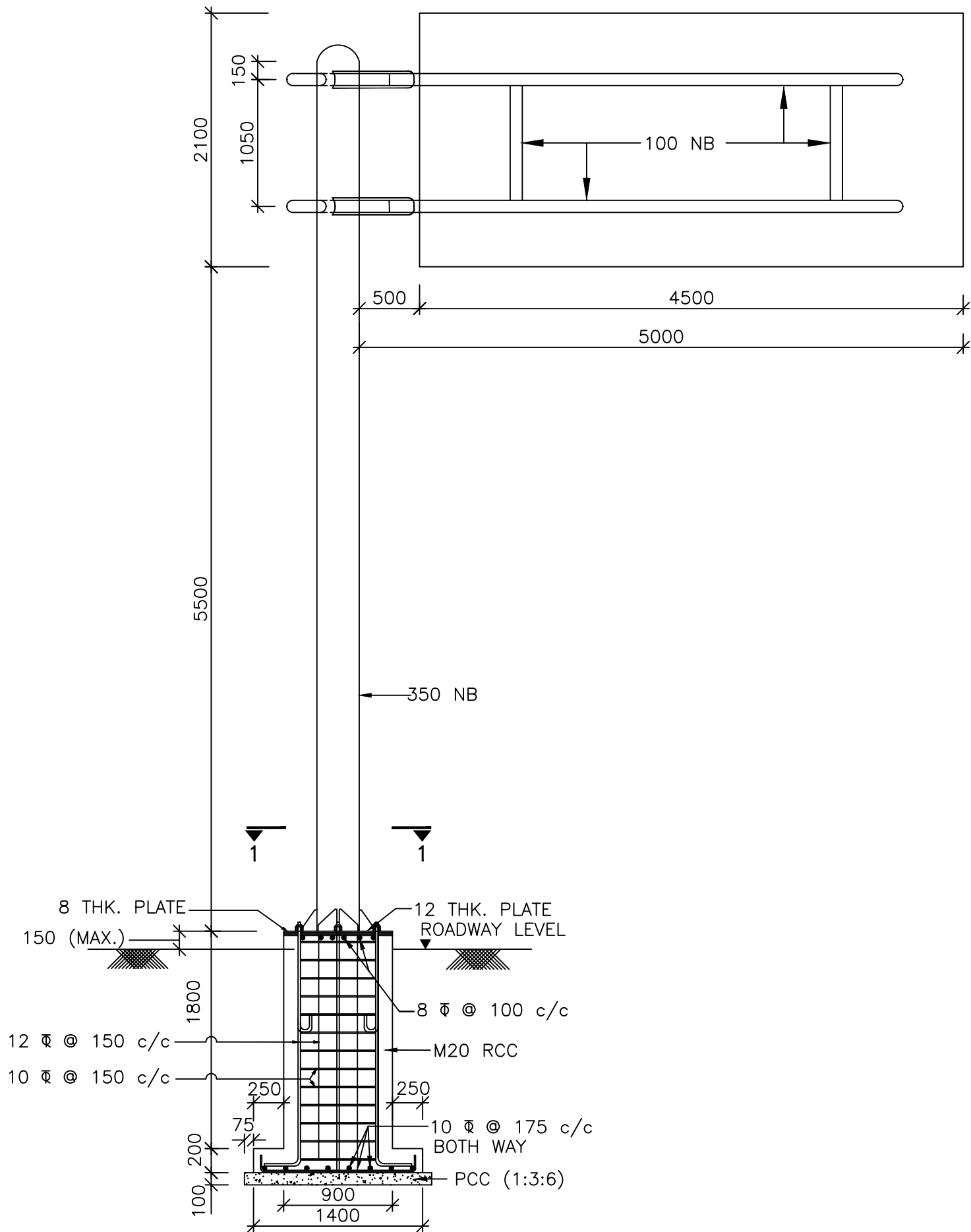
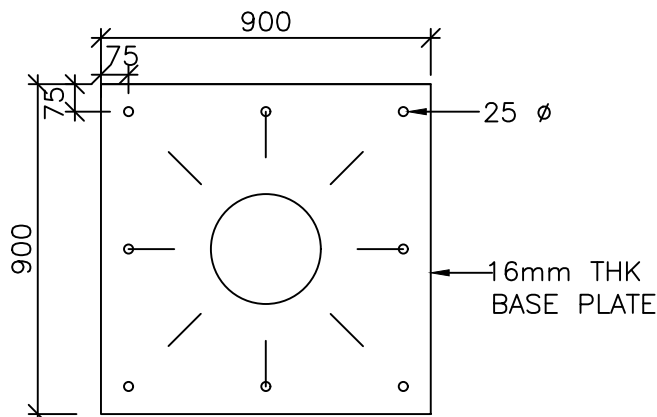




DETAILS FOR CANTILEVER
TYPE OVERHEAD SIGN

SCALE-1:50



SECTION 1-1
SCALE-1:25

SIGN	MARK	SHAPE	C O L O U R			DIMENSION
			BORDER	BACKGROUND	SYMBOL	
WARNING	WS	EQUILATEROL TRIANGLE WITH APEX POINTING UPWARDS	RED REFLECTIVE	WHITE REFLECTIVE	BLACK	SIDE =900MM CORNER=900MM RADIUS BORDER=70MM
MANDATORY/ REGULATORY	MS	GENERALLY CIRCULAR BUT FOR STOP SIGN OCTOGONAL AND TRIANGULAR FOR GIVE WAY SIGN	RED REFLECTIVE	WHITE REFLECTIVE	ARROWS : BLACK BAND : RED	DIA =600MM BORDER =65MM BEND =60MM OCTAGON SIDE =370MM BORDER =30MM TRIANGULAR SIDE =900MM BORDER =900MM
INFORMATORY	IS	RECTANGULAR WITH LONGER SIDE VERTICAL	BLUE REFLECTIVE	WHITE REFLECTIVE	BLACK OR RED REFLECTIVE SQUARE IN WHITE	OVERALL = 800X600 CENTRAL SQUARE = 400X400
DIRECTION	DS	RECTANGULAR WITH LONGER SIDE HORIZONTAL	BACK REFLECTIVE	WHITE REFLECTIVE	BLACK	VARIES BORDER = 50MM

	KERBED ROAD	UN-KERBED ROADS
MINIMUM CLEARANCE (C)	>6 cm	2-3 METRE
BOTTOM EDGE OF SIGN HEIGHT (H) SHOULD BE	>2m ABOVE KERB	>1.5m ABOVE CROWN OF THE PAVEMENT

CLIENT :



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GOVERNMENT OF INDIA

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**CONSULTANCY SERVICES FOR PREPARATION OF
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ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN: U74140HR2004PTC046918
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E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

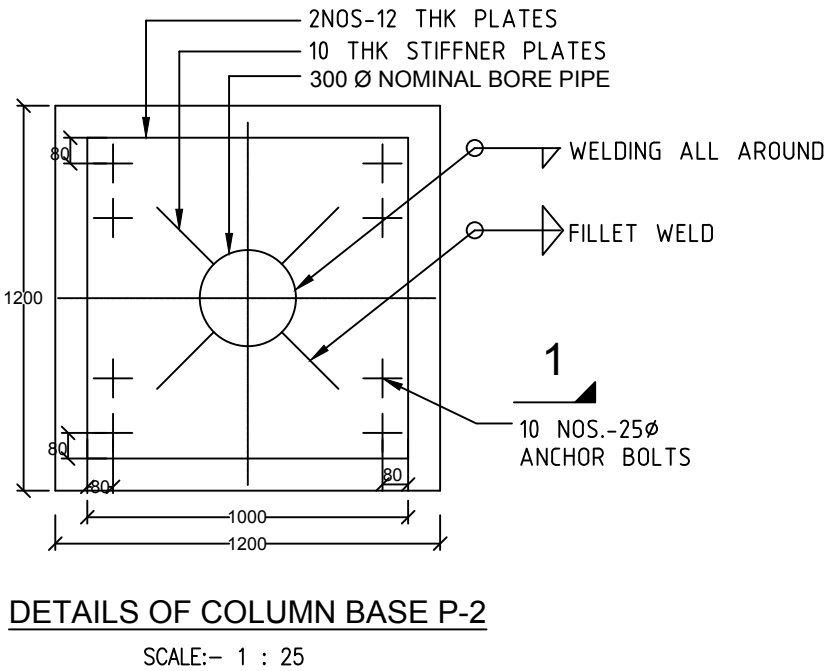
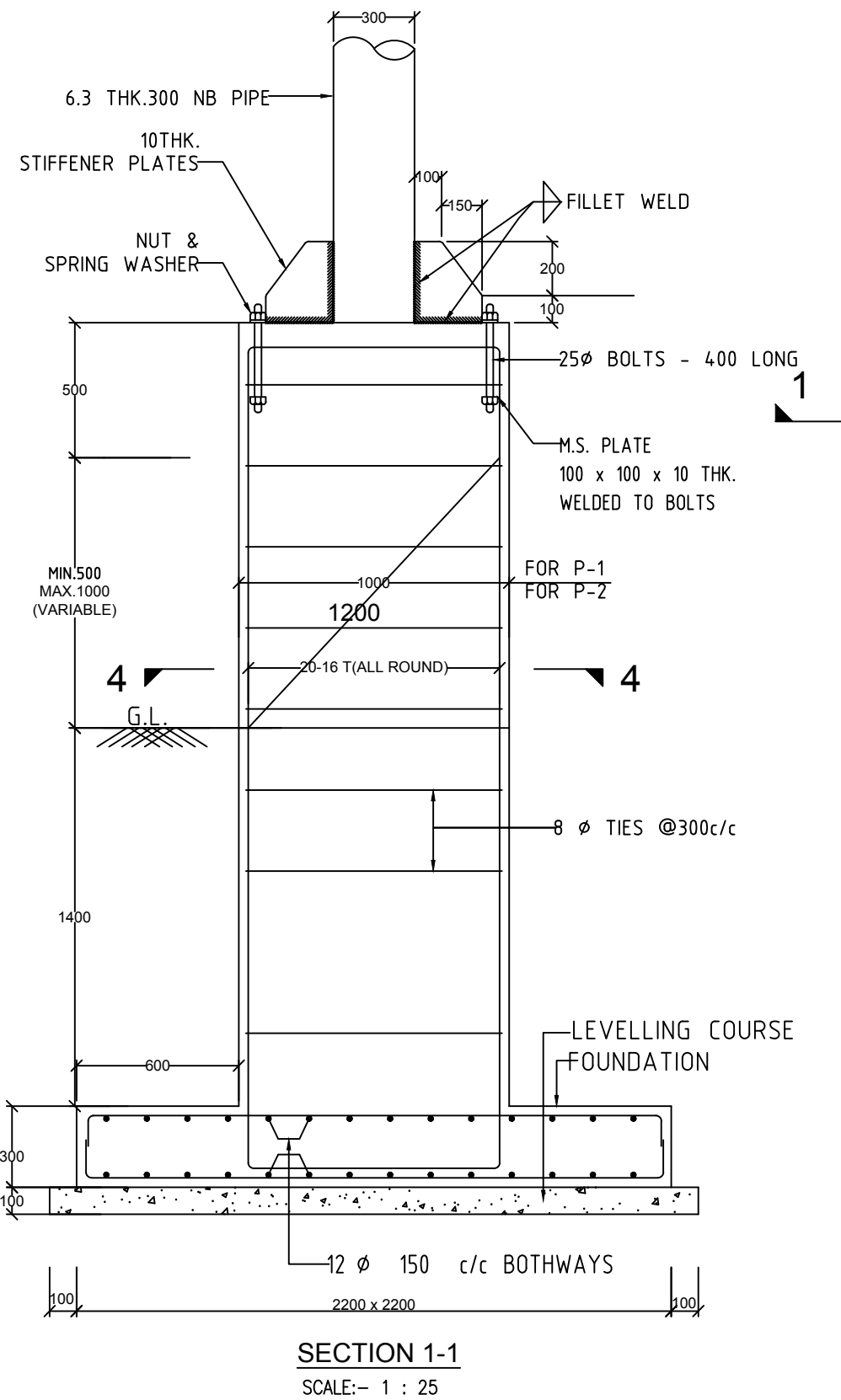
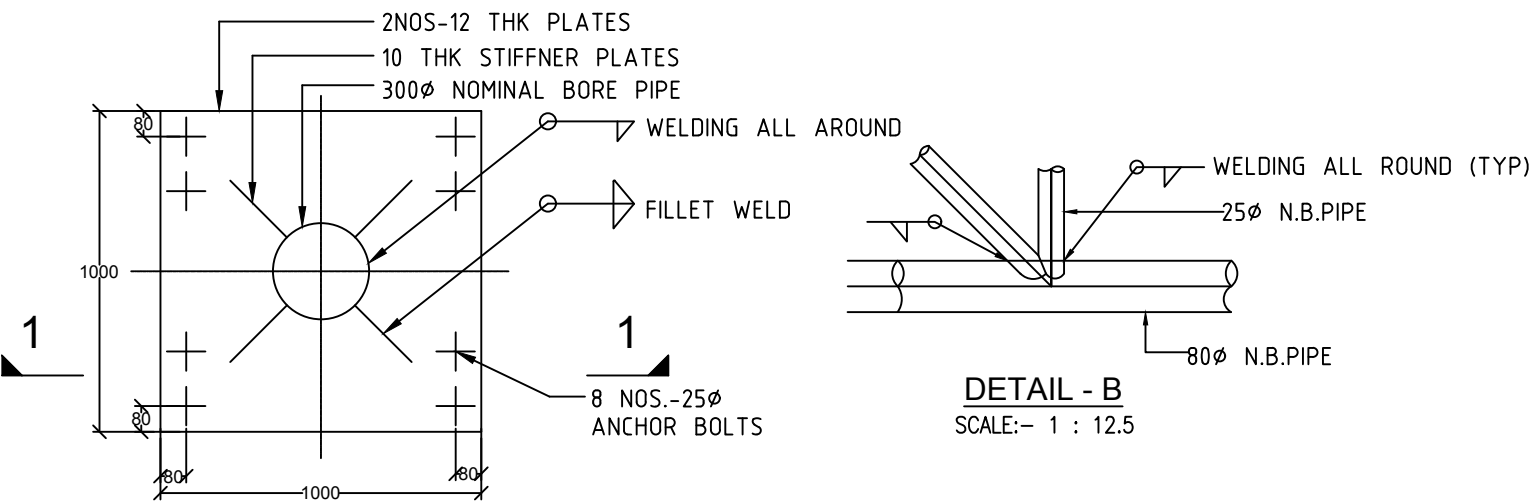
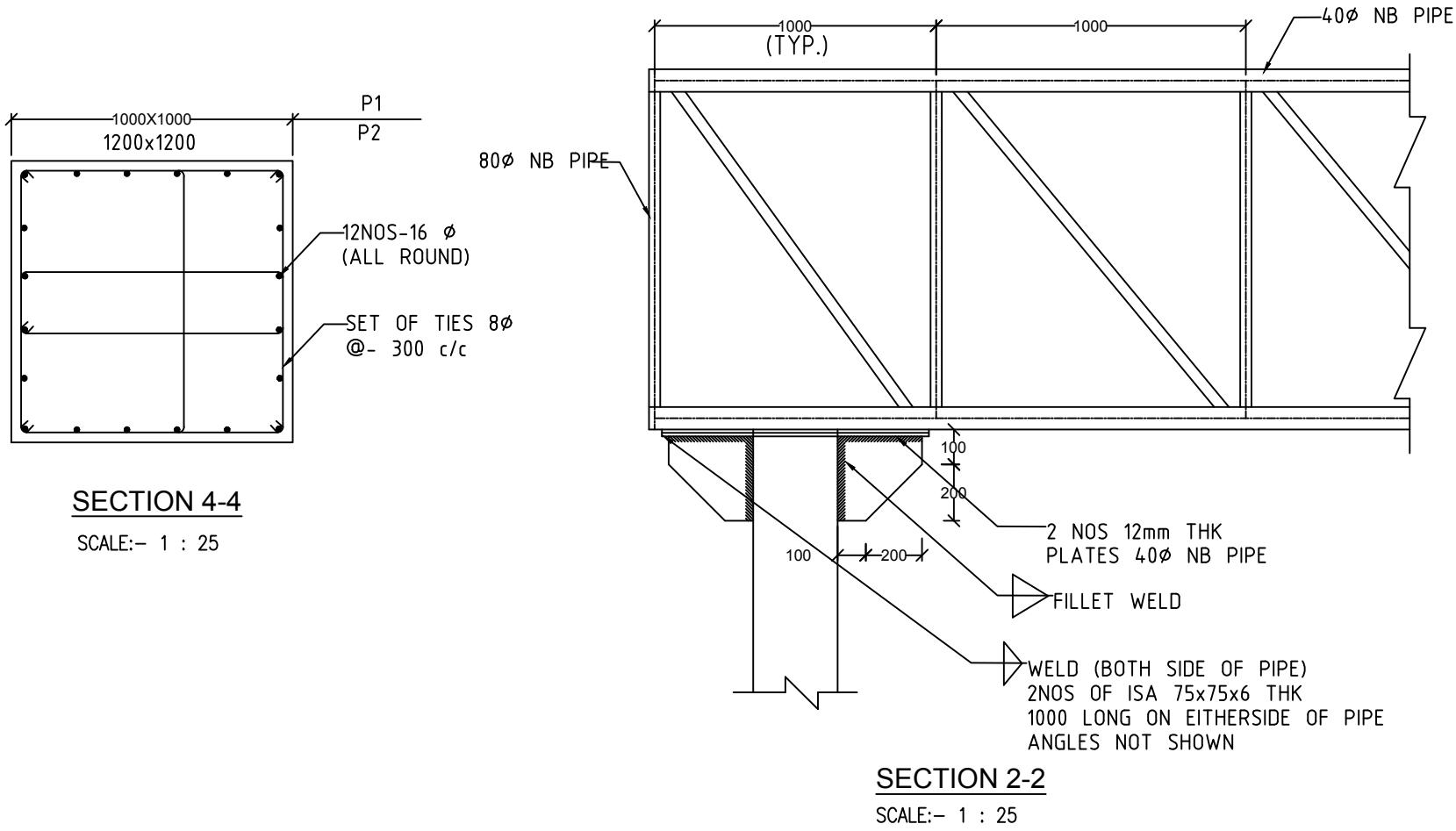
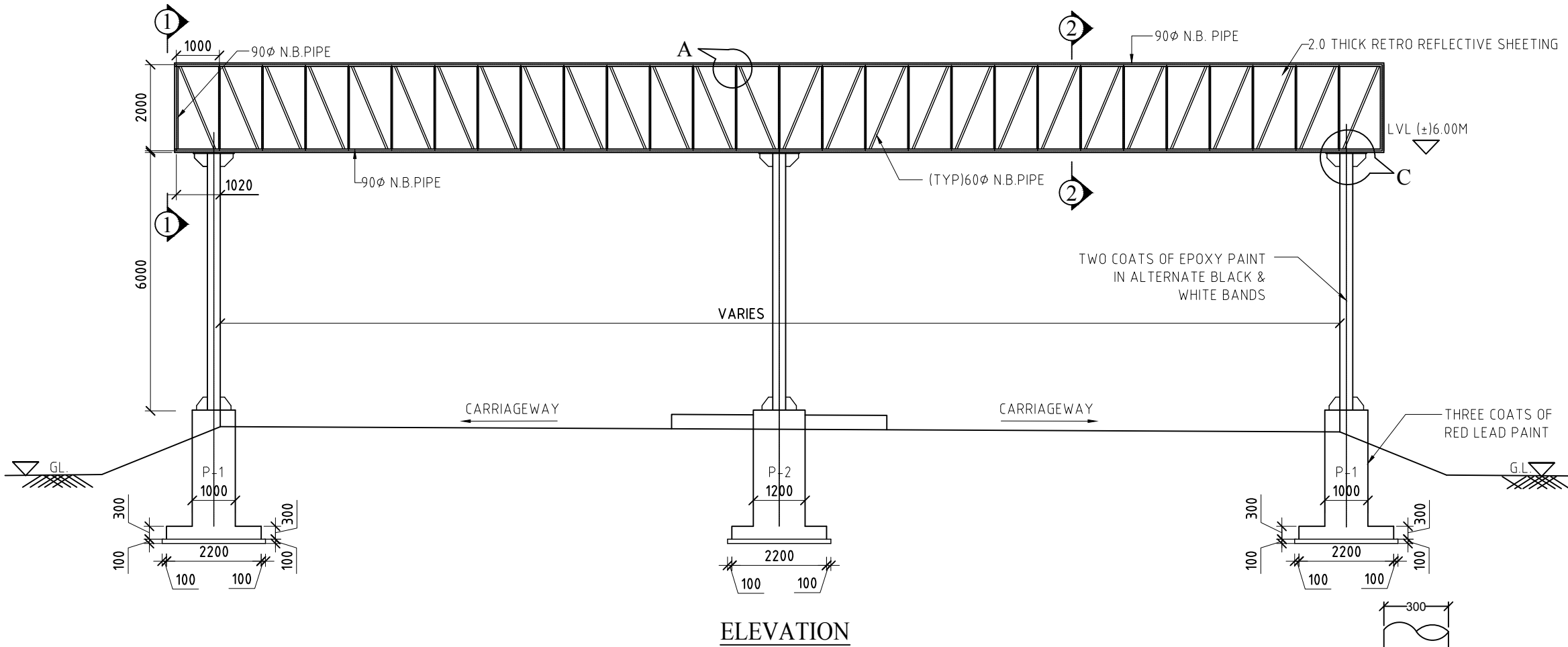
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	N.T.S	SHEET SIZE	A2

TITLE :

Typical Details of Overhead Sign

DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 04 (Sheet 01 of 02)
REVISION:R0 May 2022



- NOTES :**
1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.
 2. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED, AND NO DIMENSIONS SHALL BE SCALED.
 3. SAFE BEARING CAPACITY HAS BEEN TAKEN AS 10 MN/Sqm.
 4. THE CONCRETE GRADE SHALL BE M-20 IN FOUNDATION AND M-15 IN LEVELING COURSE
 5. CLEAR COVER TO THE OUTER MOST STEEL SHALL BE
i) PEDESTAL - 40mm
ii) FOUNDATION - 50mm
 6. STEEL TUBES ARE DESIGNATED BY THEIR NOMINAL BORES INDICATED ON DRAWING.
 7. STEEL TUBES USED ARE CLASSIFIED MEDIUM TYPE STEEL TUBES.
 8. STEEL TUBES SHALL CONFORM TO GRADE Yst 210.
 9. STEEL TUBES USED SHALL BE CONFORMING TO IS:1611-1998.
 10. TUBULAR MEMBERS SHALL HAVE ANNULAR CUT HEAD SMOOTH FINISHED SO AS TO HAVE PROPER SEAT OVER THE SUPPORTING TUBE.
 11. ELECTRODE USED SHALL CONFORM TO RELEVANT I.S. SPECIFICATIONS AND THE CHEMICAL COMPOSITION OF ELECTRODE & THE TUBE SHOULD MATCH.
 12. SLAG SHALL BE REMOVED BEFORE MEASURING THE DIMENSIONS OF FILLET WELD.
 13. WELDING SHALL BE DONE BY ARC WELDING.
 14. 4.5mm SIZE WELD SHALL BE MADE WITH A SINGLE PASS.
 15. WELD SIZE SHALL BE 4.5mm UNLESS OTHERWISE MENTIONED AND SHALL BE DONE ALL ROUND ON THE CONTACT LENGTH OF MEMBERS.
 16. HIGH STRENGTH BOLTS SHALL CONFORM TO IS:4000-1992.
 17. DIA. OF HOLES IN MS PLATES SHALL BE MACHINE MADE & AS FOLLOWS
DIA OF BOLTS DIA OF HOLES.
i) 20mm. 21.5mm.
ii) 25mm. 26.5mm.
 18. SIZE OF LETTERS AND COLOUR OF PAINT SHALL BE DECIDED BY THE ENGINEER.
i) IRC : 67-2001
ii) IRC : 30-1968
 19. SHADE OF ANTI-CORROSION PAINT FOR PIPES SHALL BE DECIDED BY THE ENGINEER.
 20. RETRO-REFLECTIVE SHEETING SHALL BE BOLTED WITH 40 MM Ø PIPE WITH 20 MM HIGH STRENGTH BOLT.

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MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

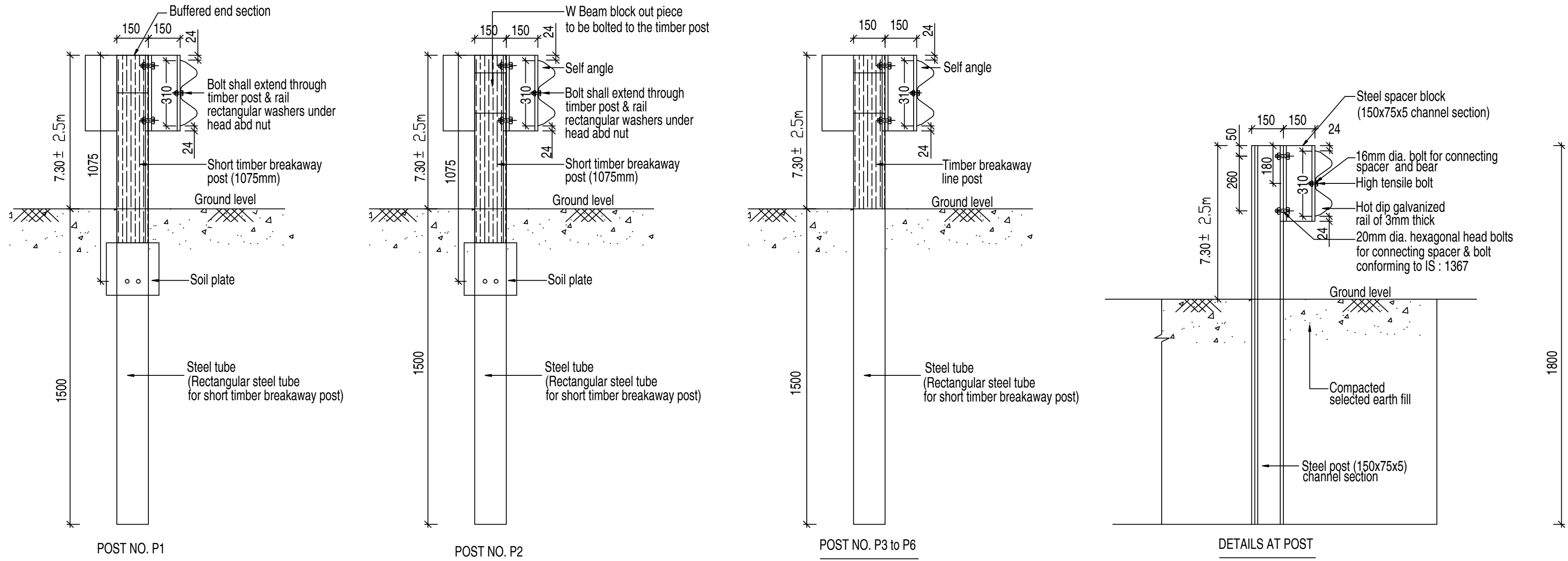


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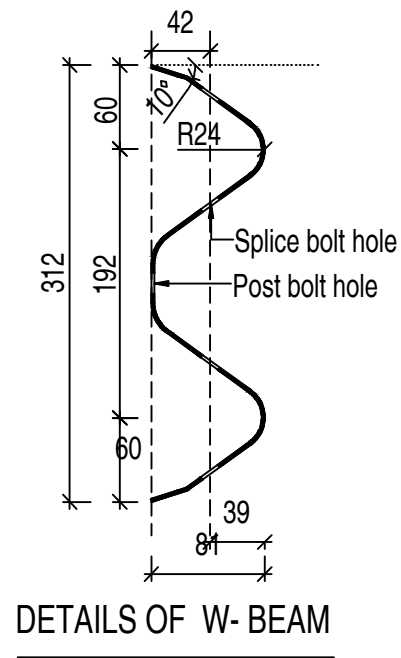
Detailed Project Report

REV.	DATE	DESCRIPTION

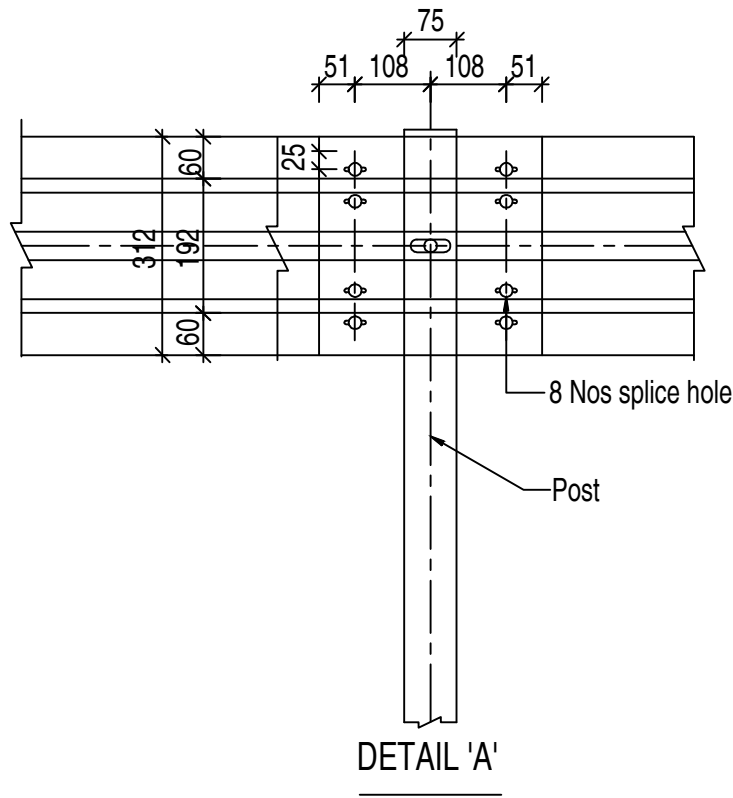
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	Typical Details of Overhead Sign
				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 04 (Sheet 02 of 02)
SCALE :	N.T.S	SHEET SIZE	A2	REVISION:R0 May 2022



MODIFIED ECCENTRIC LOADER TERMINAL (MELT)
GENERAL ARRANGEMENT

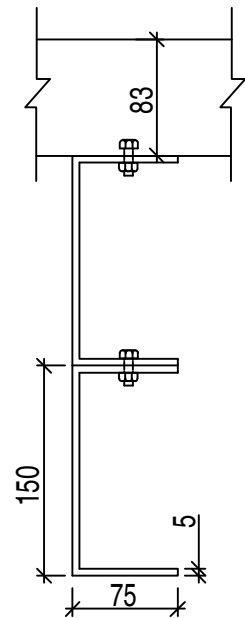


DETAILS OF W-BEAM

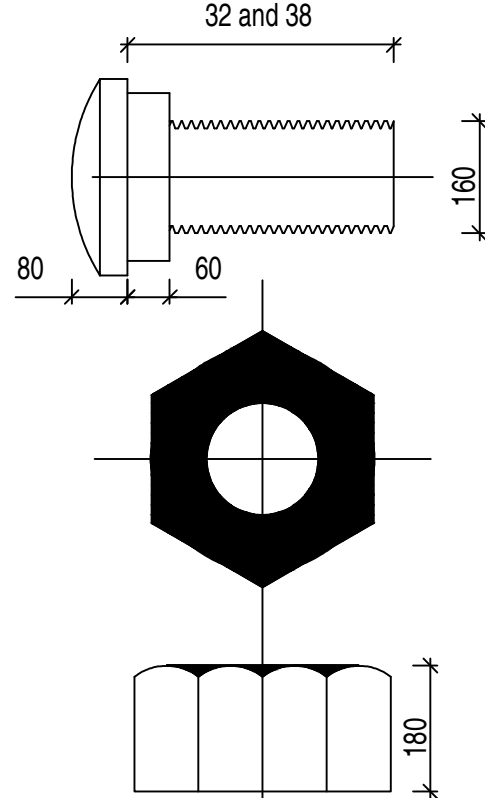


DETAIL 'A'

CHANNEL SECTION FOR
POST & SPACER



SPLICE BOLT AND NUT



- Notes:
1. All dimensions are in millimeter unless otherwise specified.
 2. Hot dipped galvanized section as per mort & h specification shall be used for vertical post & spacer.
 3. Thickness of W-beam shall be 3 mm.
 4. Thickness of channel section shall be 5 mm.

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(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

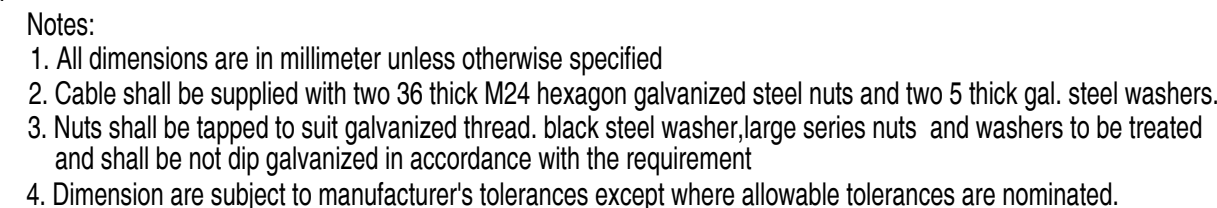
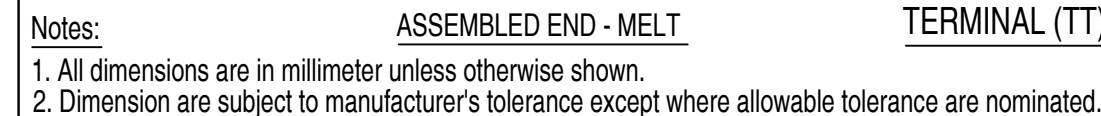
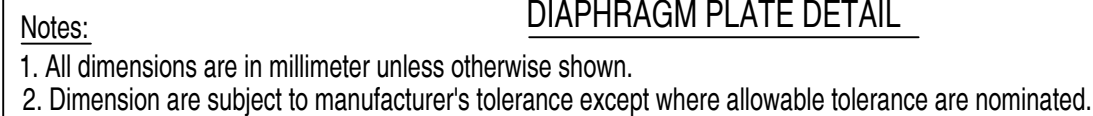


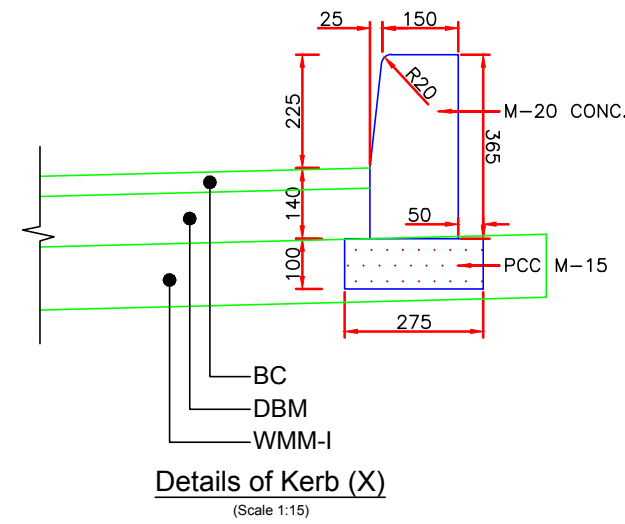
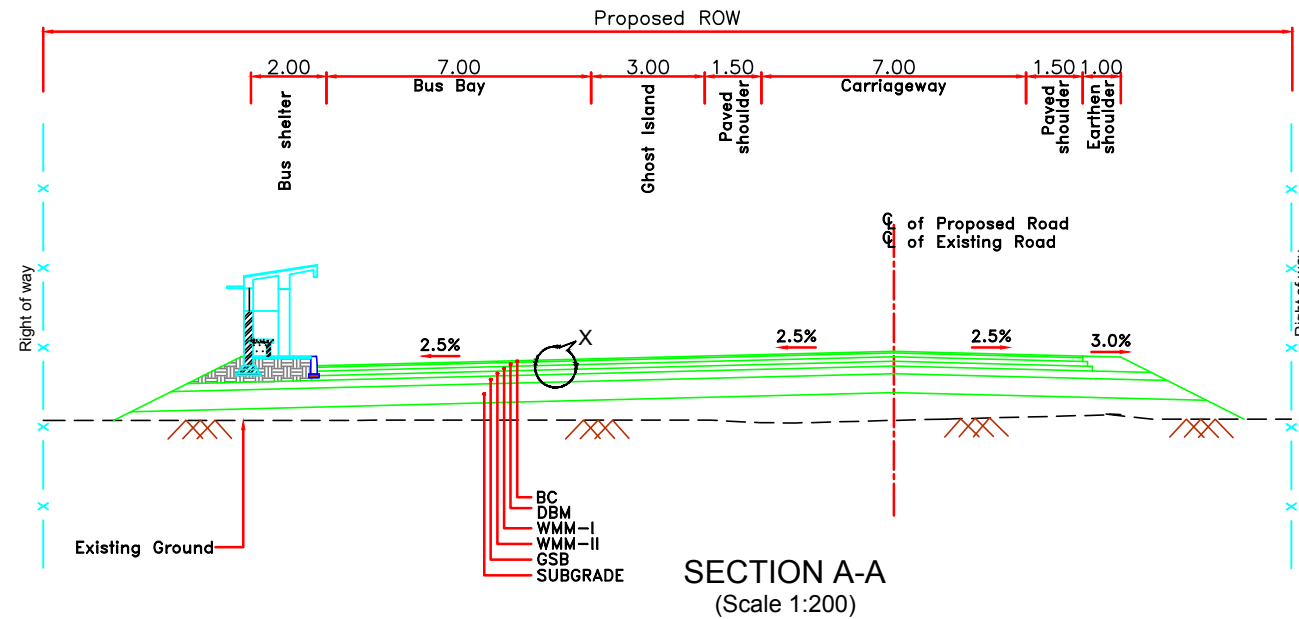
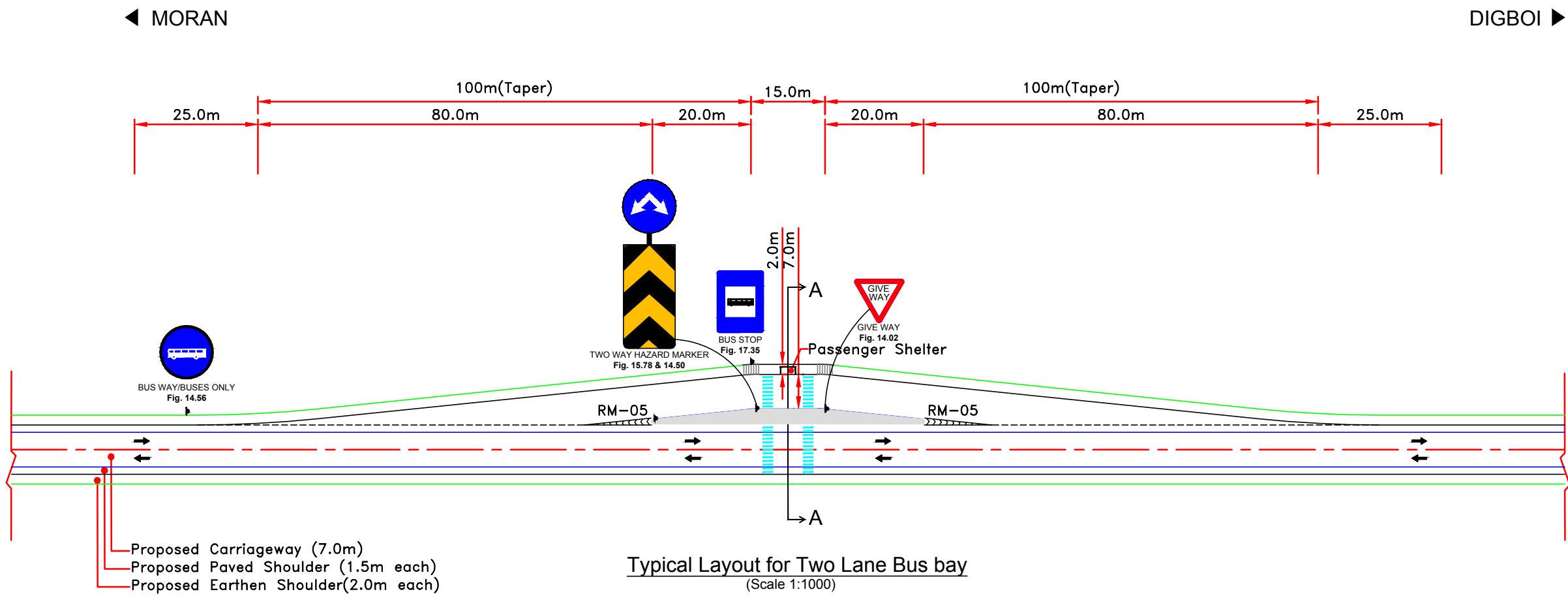
VOYANTS SOLUTIONS PVT LTD.
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Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	Typical Details of Metal Beam Crash Barrier
				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 06 (Sheet 02 of 03)
SCALE :	N.T.S	SHEET SIZE	A2	REVISION:R0 May 2022



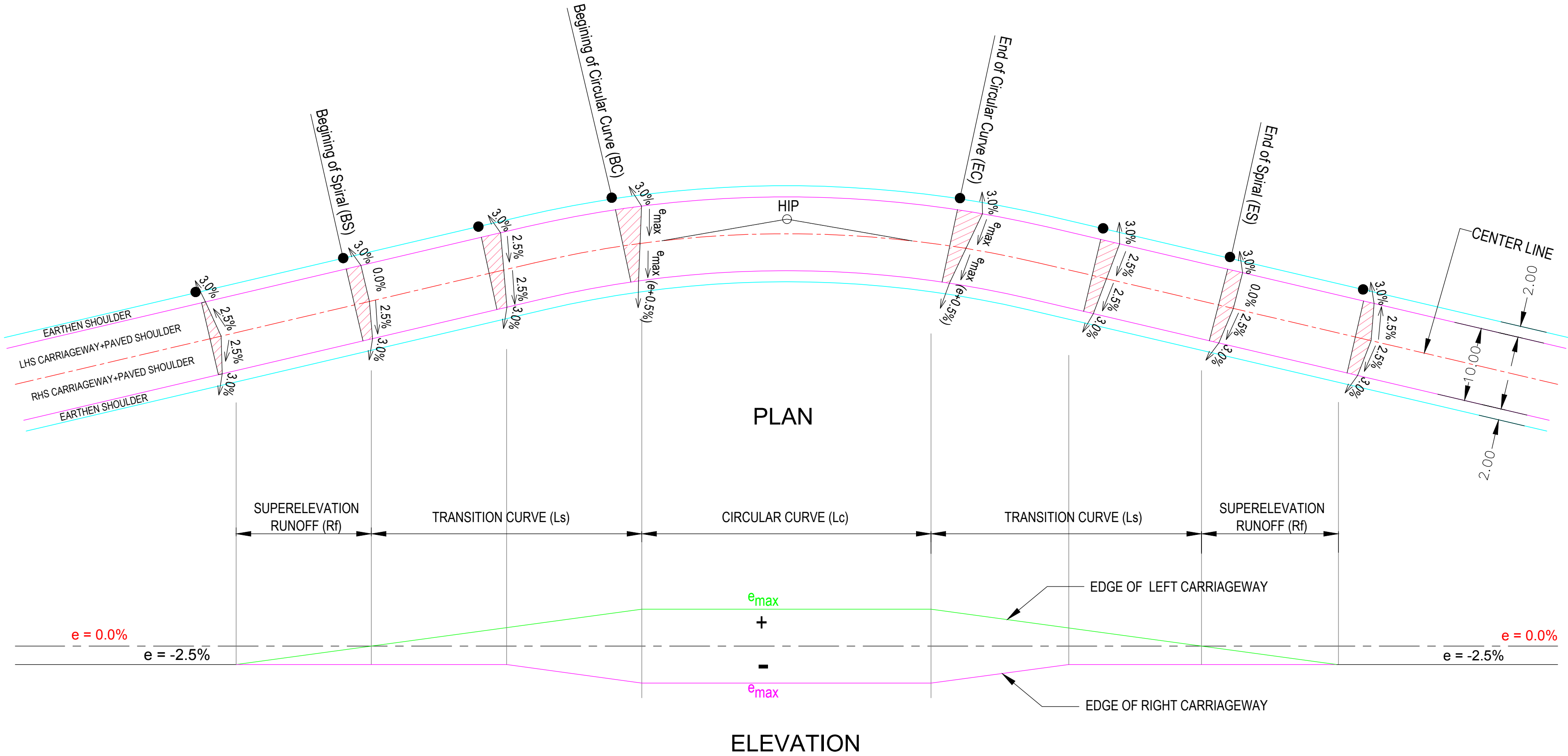


Note:
1. All dimensions are in meter unless otherwise specified.

CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurugram-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report		DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :	
					PD/PS	SS/SP	DGR	SKC	Typical Detail of Bus Bay	
									DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 07	
					SCALE : AS SHOWN		SHEET SIZE		A2	
		REV.	DATE	DESCRIPTION				REVISION:R0		May 2022

◀ MORAN

DIGBOI ▶



- Notes:
- 1. $R_f = L_s \times 2.5/e$
 - 2. Maximum Superelevation (e_{max}) = $V^2 / (225 \times R)$ Limited to 5%
 - 3. Besides the above, standards and specifications mentioned in IRC:SP:73-2015 shall be followed strictly whenever applicable.
 - 4. All dimensions are in metres unless otherwise mentioned.

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DESIGN CONSULTANT:



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Detailed Project Report	
REV.	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
			
SCALE :	N.T.S.	SHEET SIZE	A2

TITLE :	
Details of Superelevation	
DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 10	
REVISION:R0	May 2022