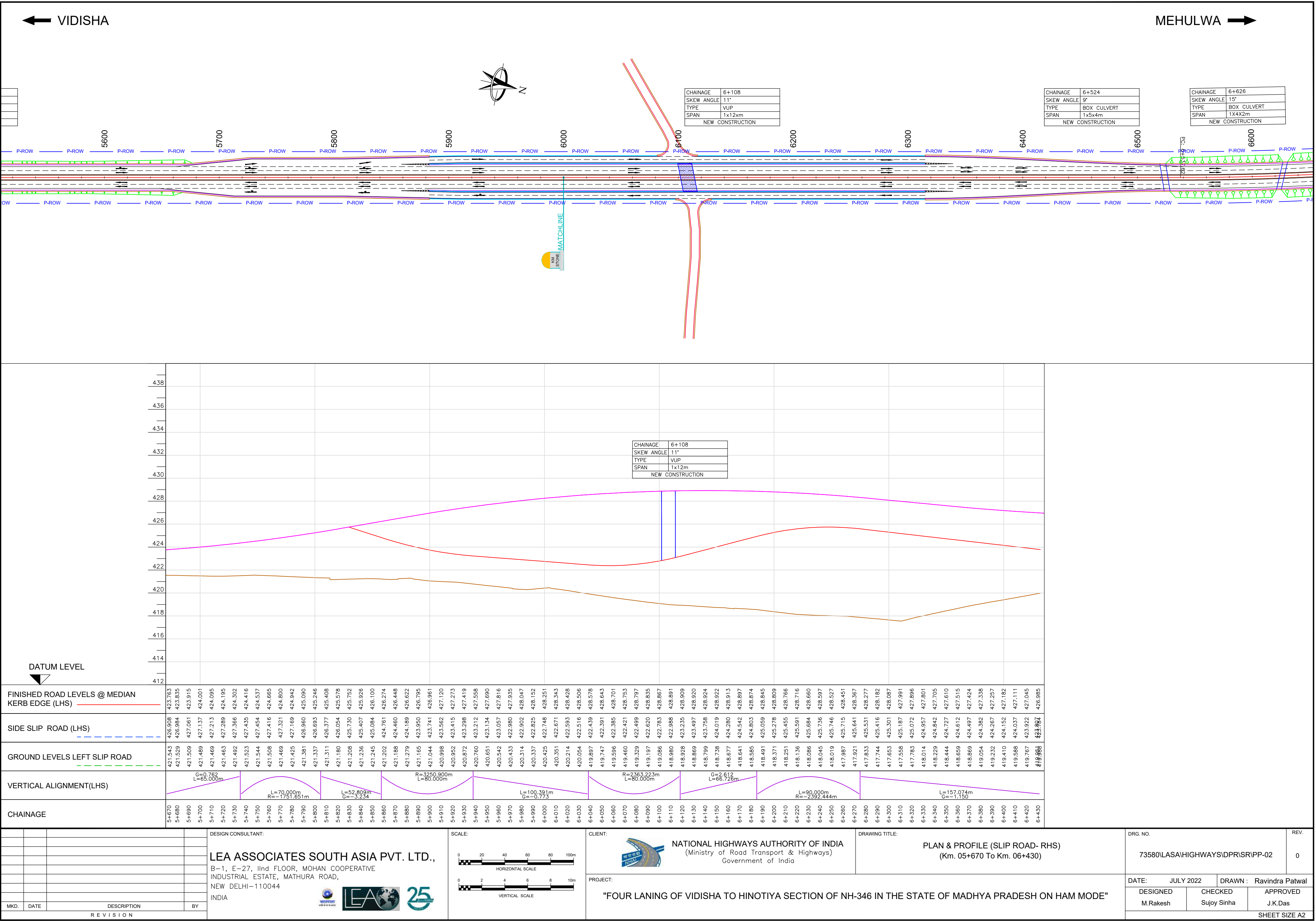
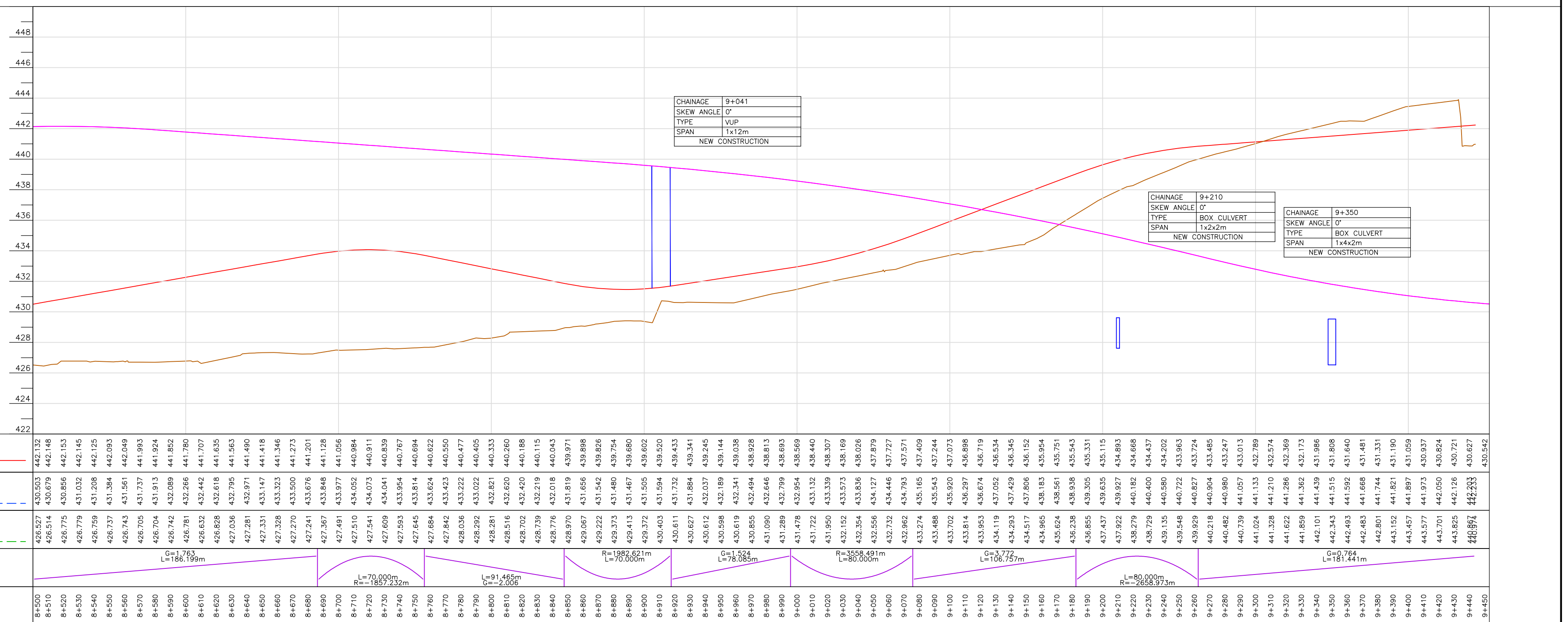
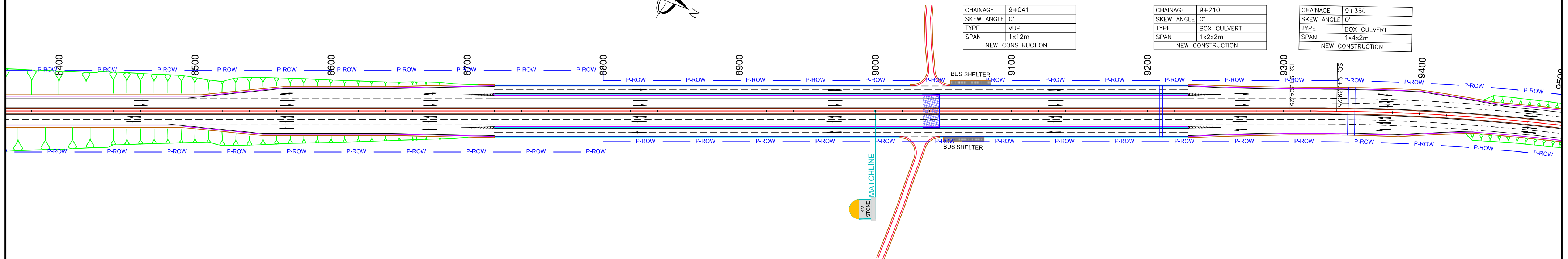
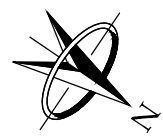


PLAN & PROFILE (SLIP ROAD-RHS)



← VIDISHA

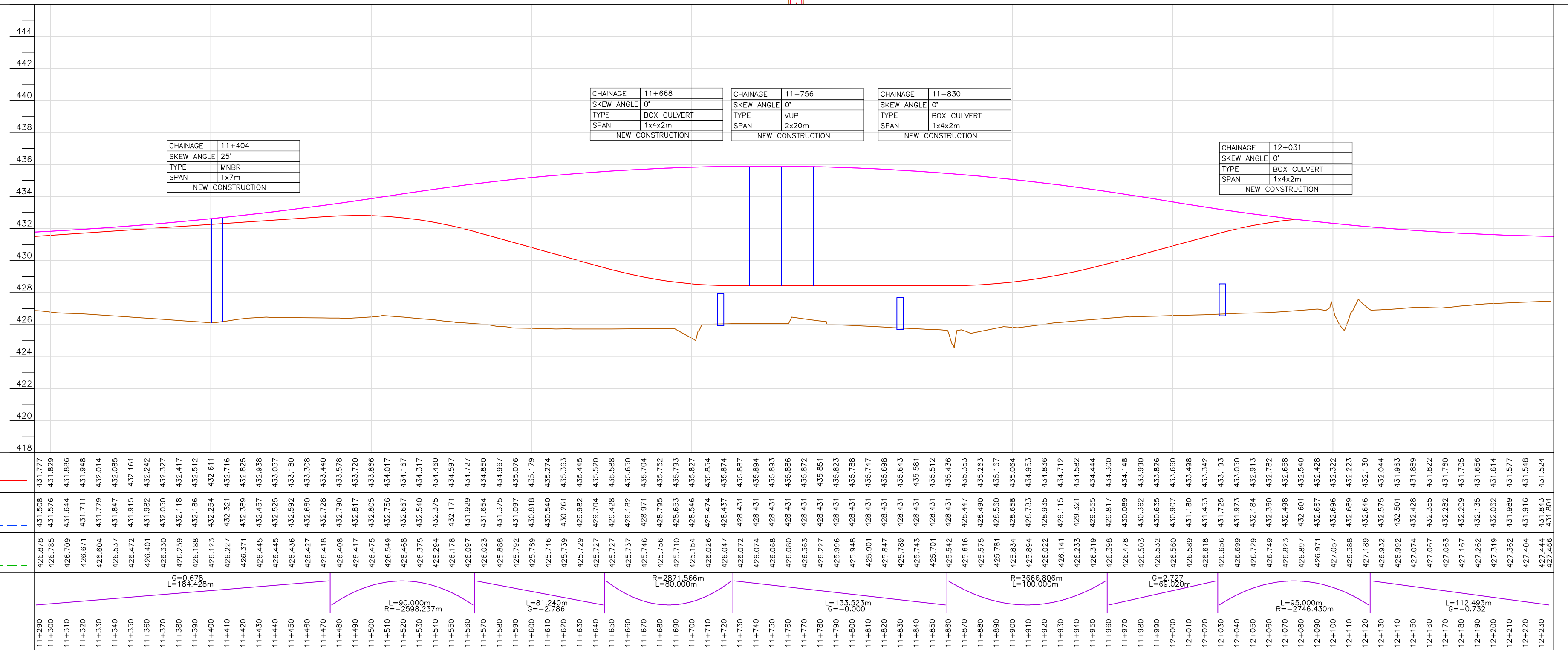
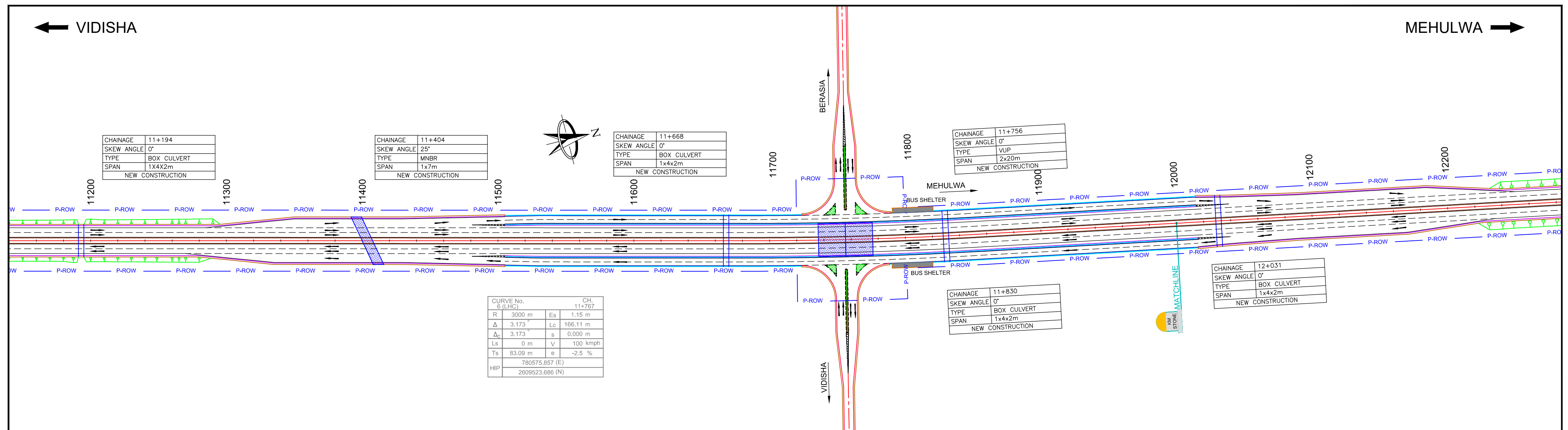
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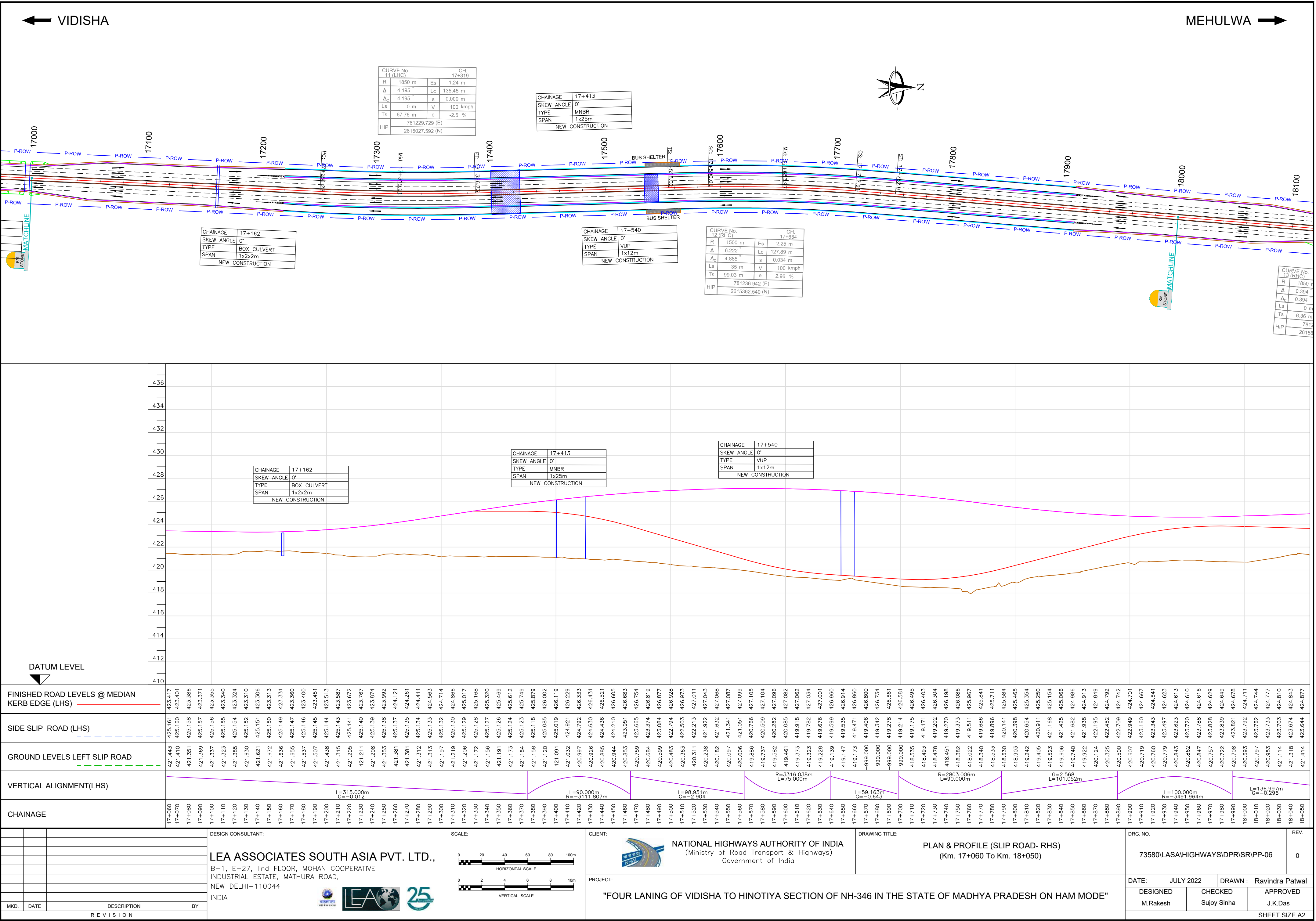
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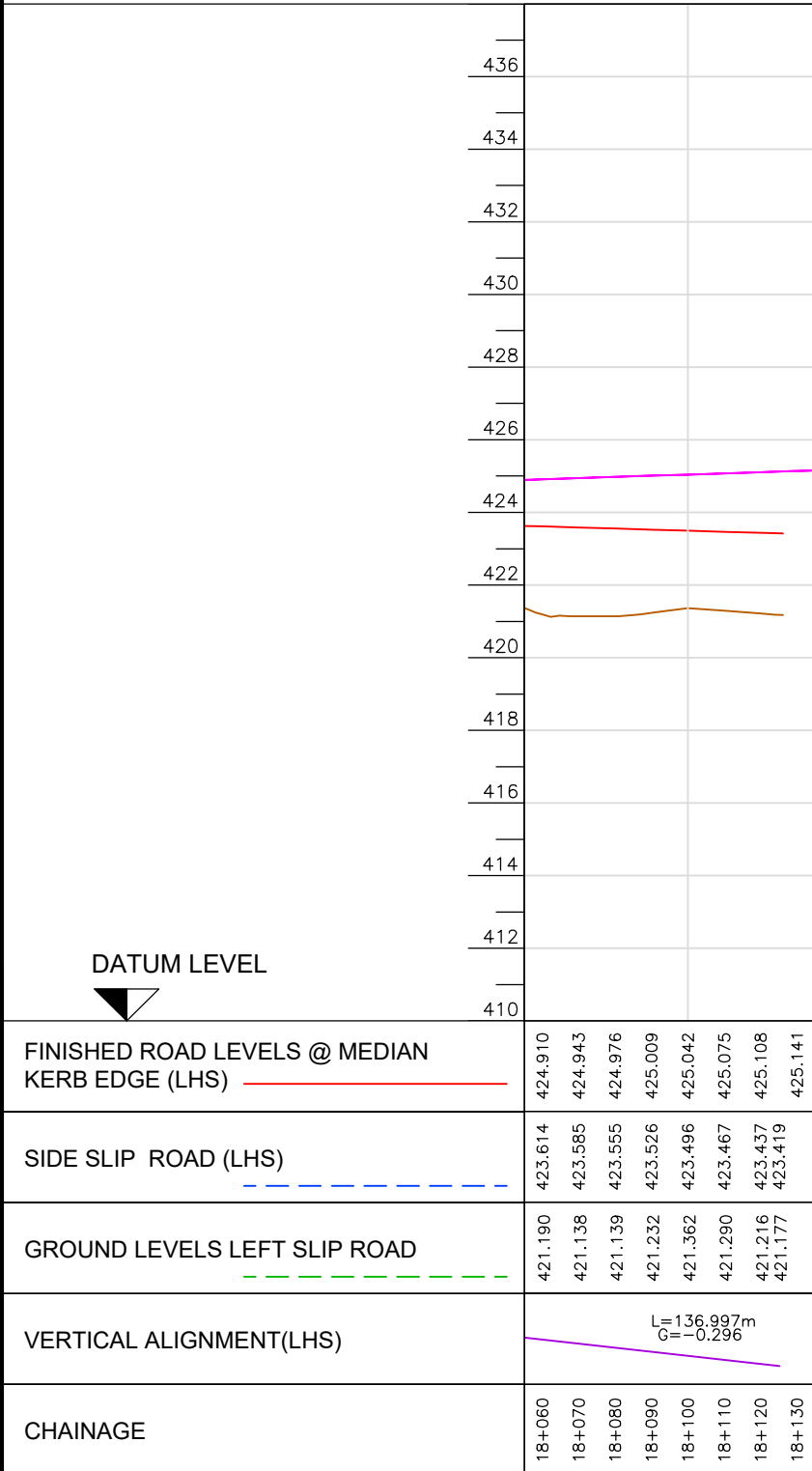
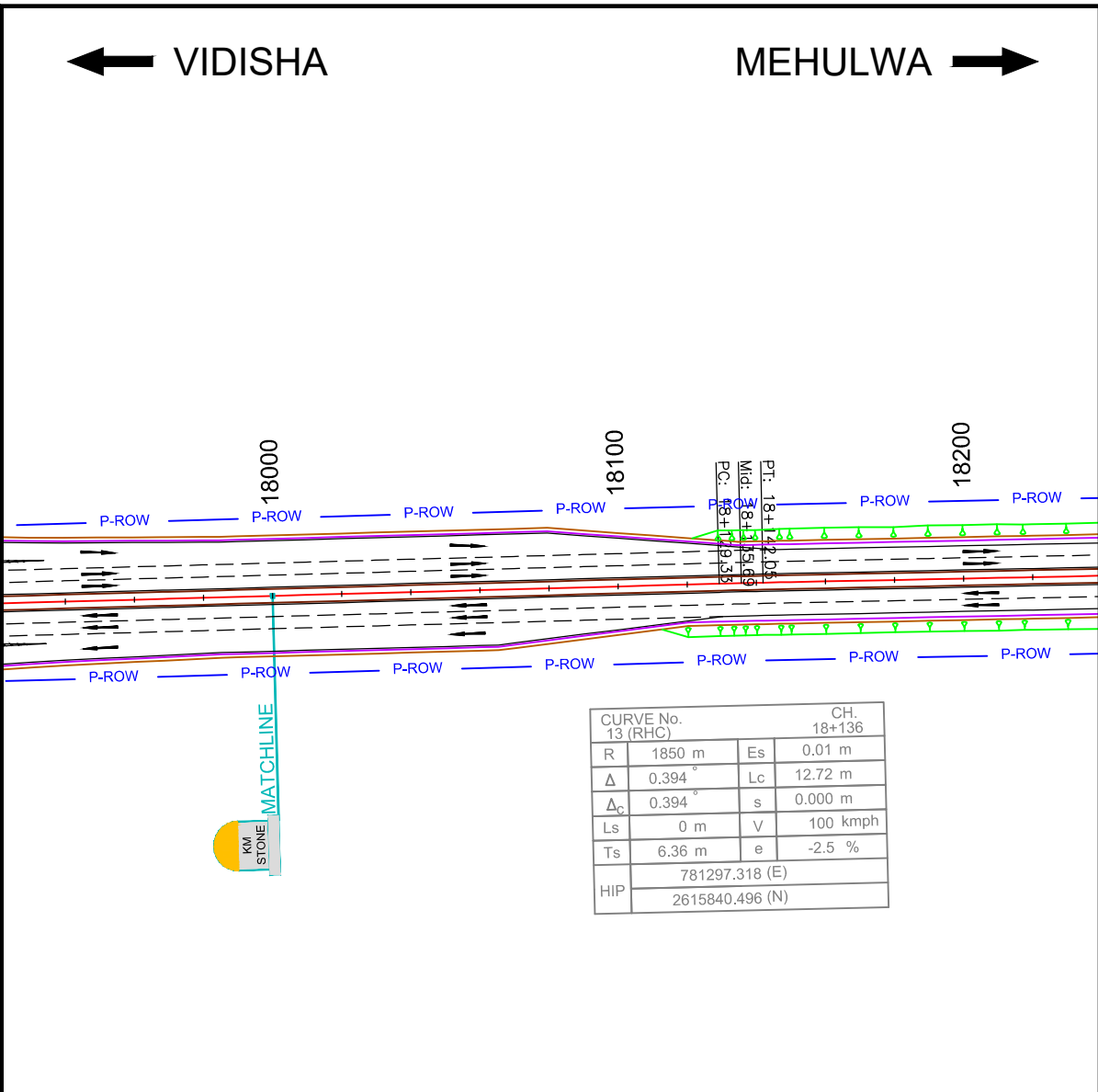
← VIDISHA

MEHULWA →

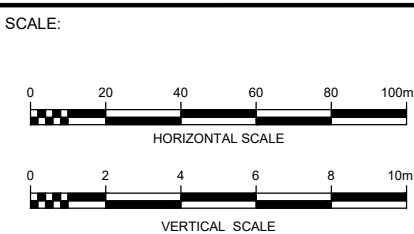


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MKD.	DATE	DESCRIPTION	BY																									
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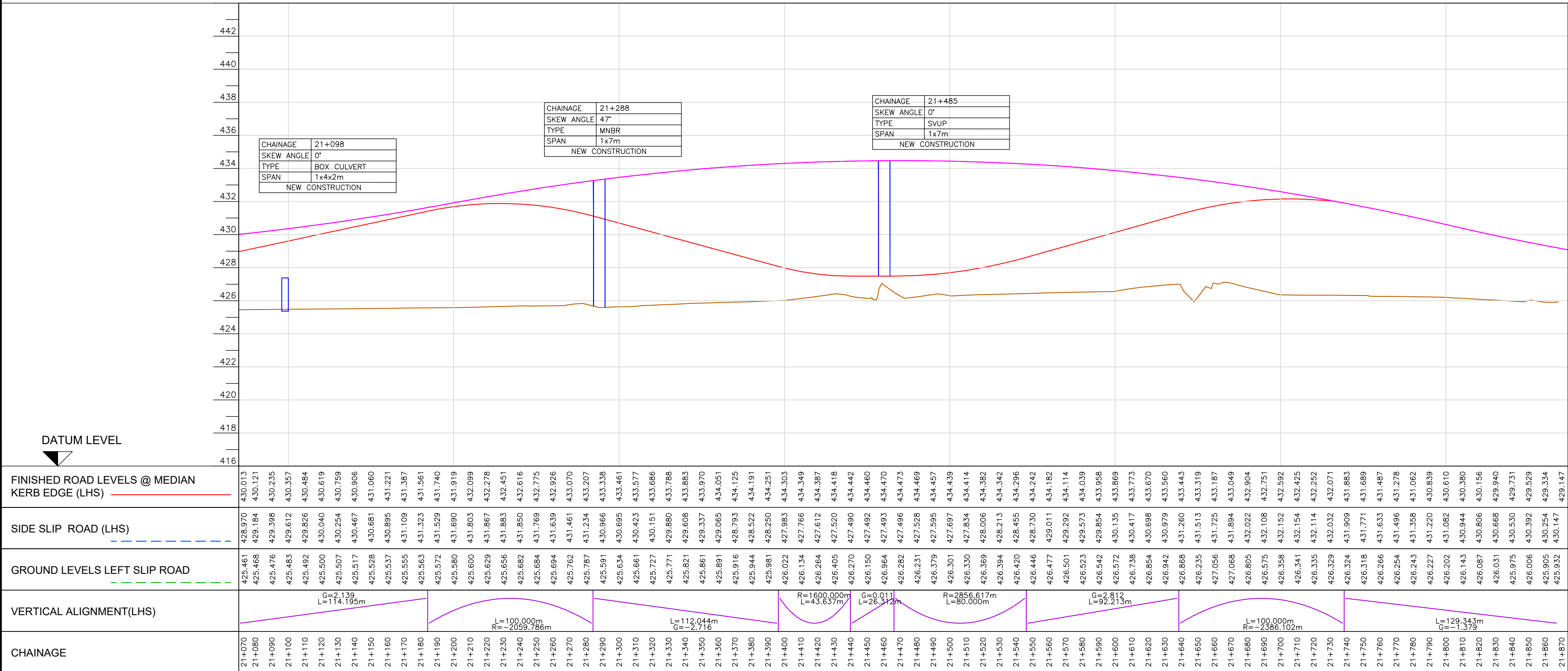
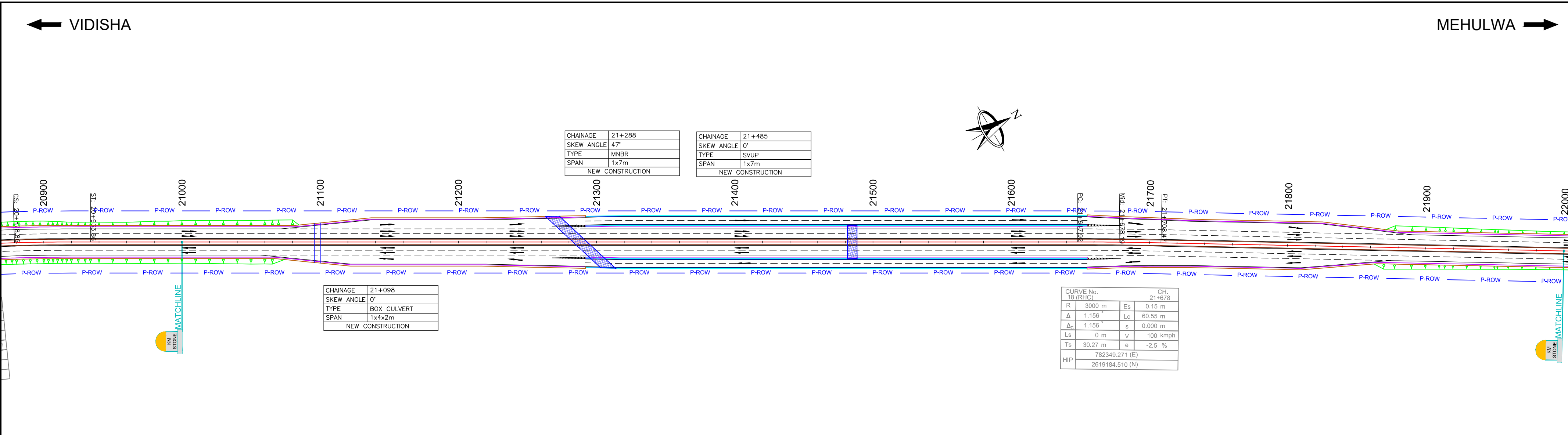
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				INDUSTRIAL ESTATE, MATHURA ROAD,
				NEW DELHI-110044
				INDIA
MKD.	DATE	DESCRIPTION	BY	
R E V I S I O N				



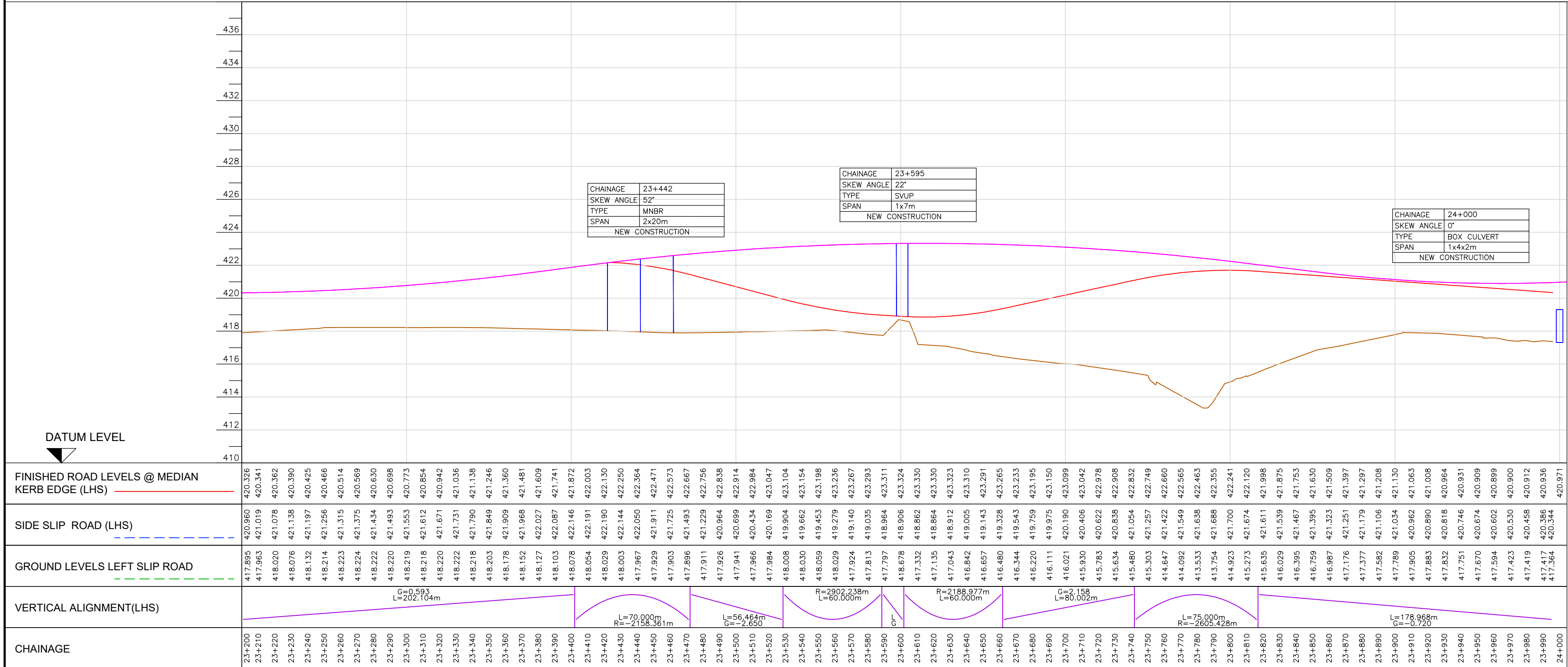
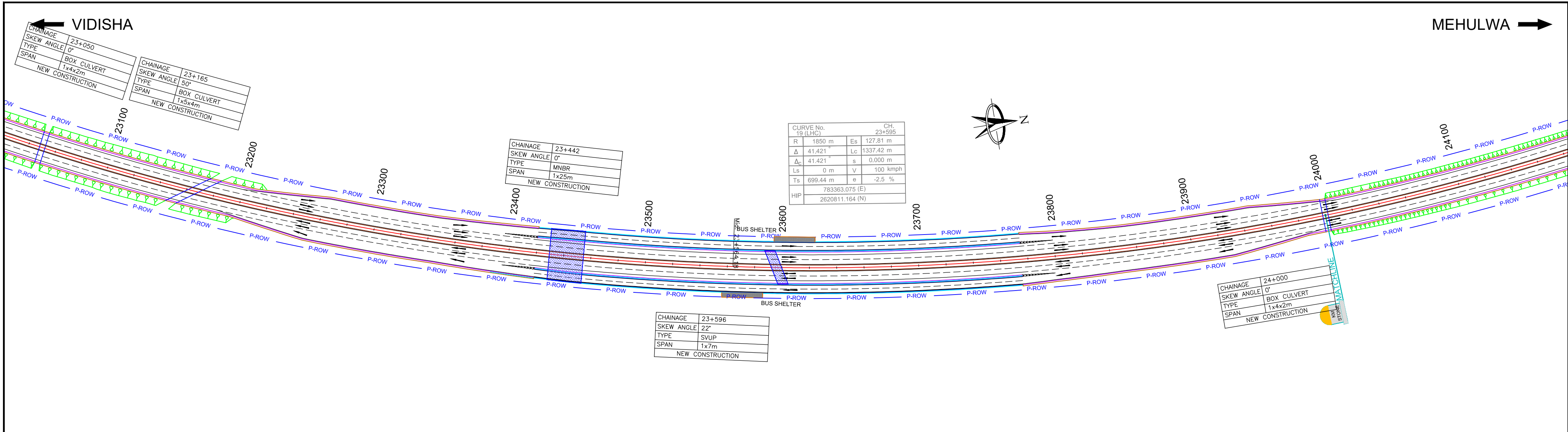
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PROJECT:	"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"

DRAWING TITLE:	PLAN & PROFILE (SLIP ROAD- RHS) (Km. 18+060 To Km. 18+130)
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DATE:	JULY 2022	DRAWN :	Ravindra Patwal
DESIGNED	M.Rakesh	CHECKED	Sujoy Sinha
		APPROVED	J.K.Das
SHEET SIZE A2			

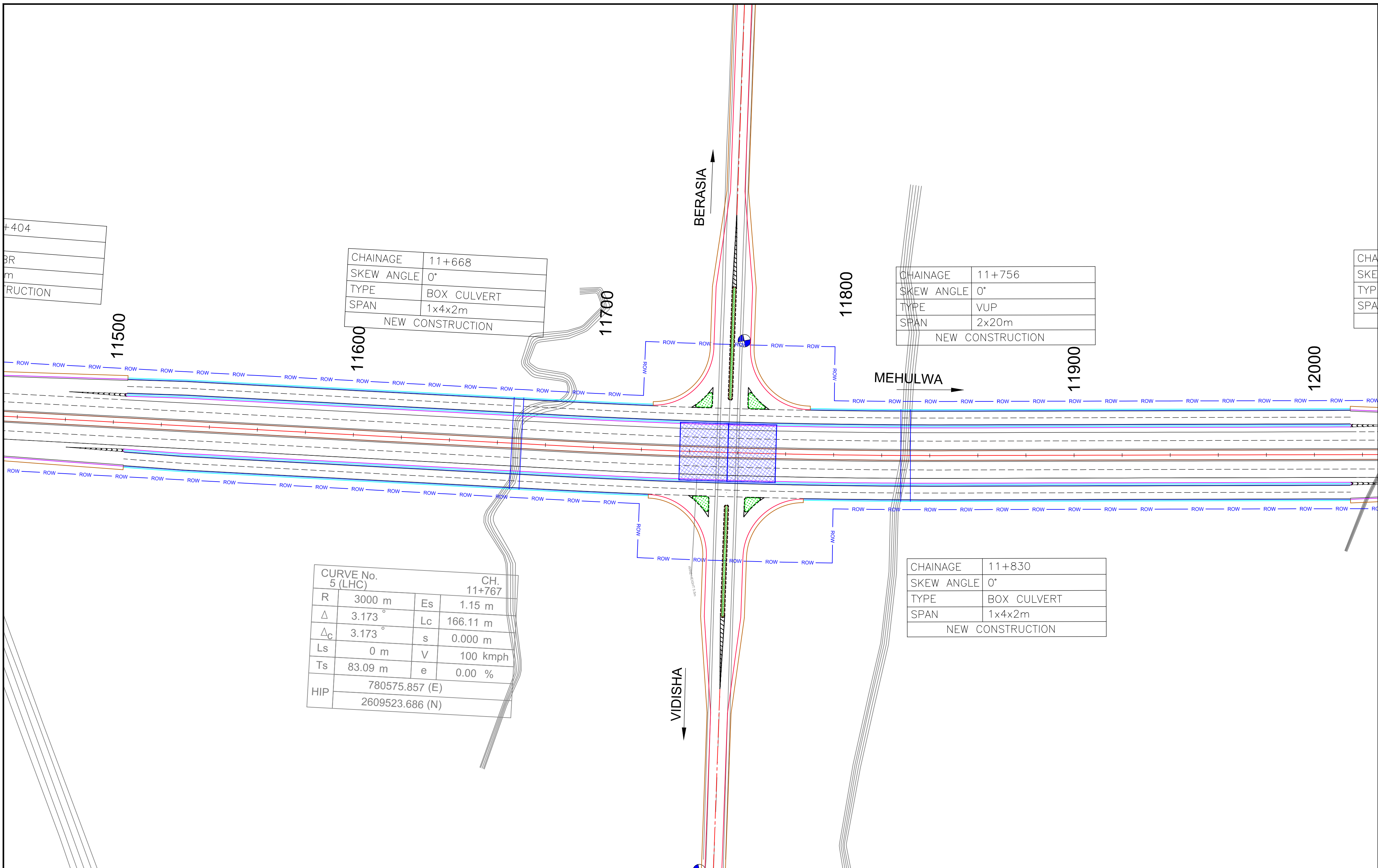


M.K.D.		DATE	DESCRIPTION	BY
REVISION				
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA				
SCALE: HORIZONTAL SCALE: 0 20 40 60 80 100m VERTICAL SCALE: 0 2 4 6 8 10m				
CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India				
PROJECT: "FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				
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DRG. NO. 73580\LASA\HIGHWAYS\DPRI\SR\PP-07				
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DATE: JULY 2022		DRAWN : Ravindra Patwal		
DESIGNED M.Rakesh	CHECKED Sujoy Sinha	APPROVED J.K.Das		
SHEET SIZE A2				

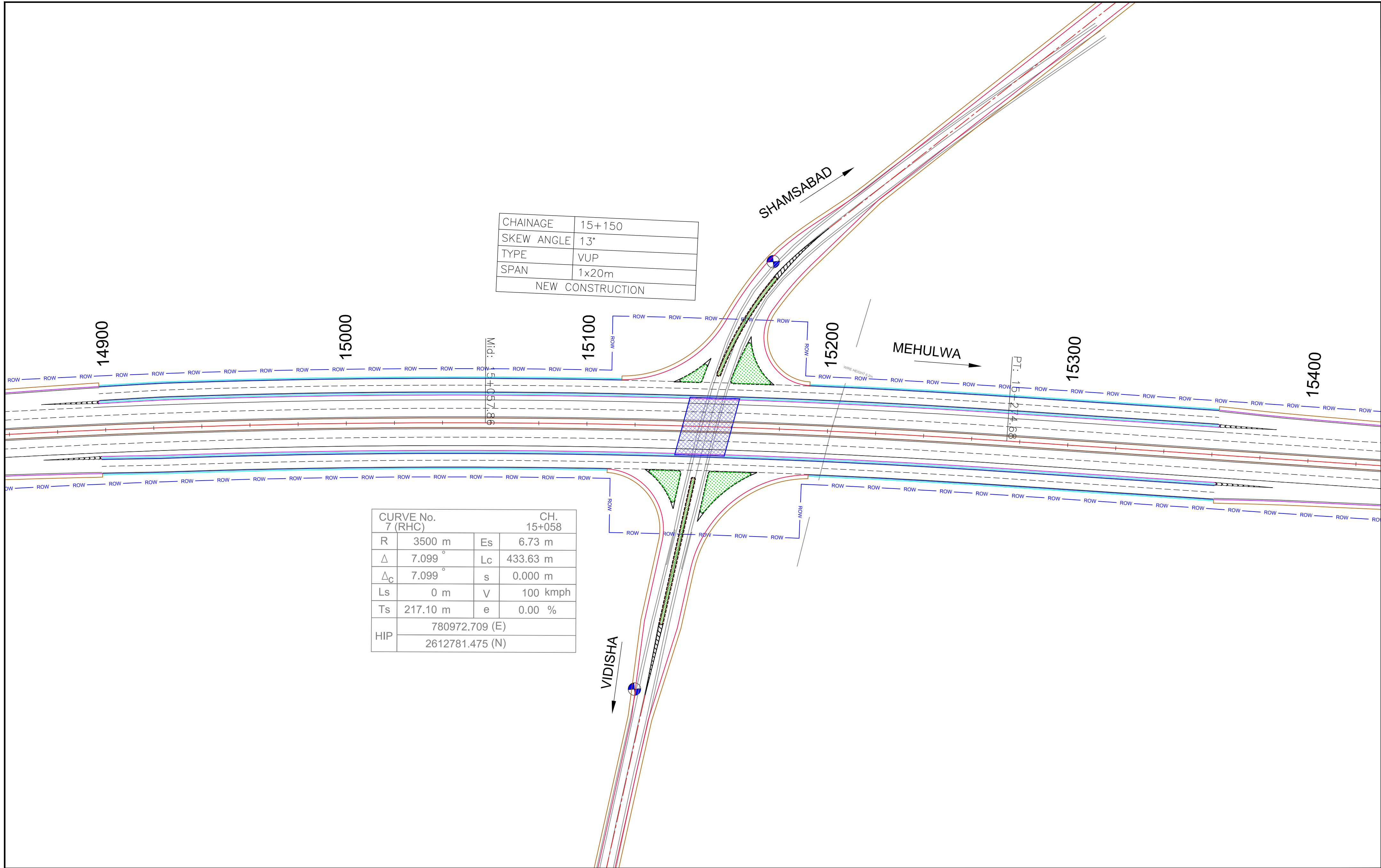


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B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				0 2 4 6 8 10m				(Ministry of Road Transport & Highways)				(Km. 23+200 To Km. 24+000)				DATE: JULY 2022		DRAWN : Ravindra Patwal	
INDIA				VERTICAL SCALE				PROJECT:				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DESIGNED M.Rakesh		CHECKED Sujoy Sinha	
REVISION																APPROVED J.K.Das		SHEET SIZE A2	

MAJOR JUNCTIONS

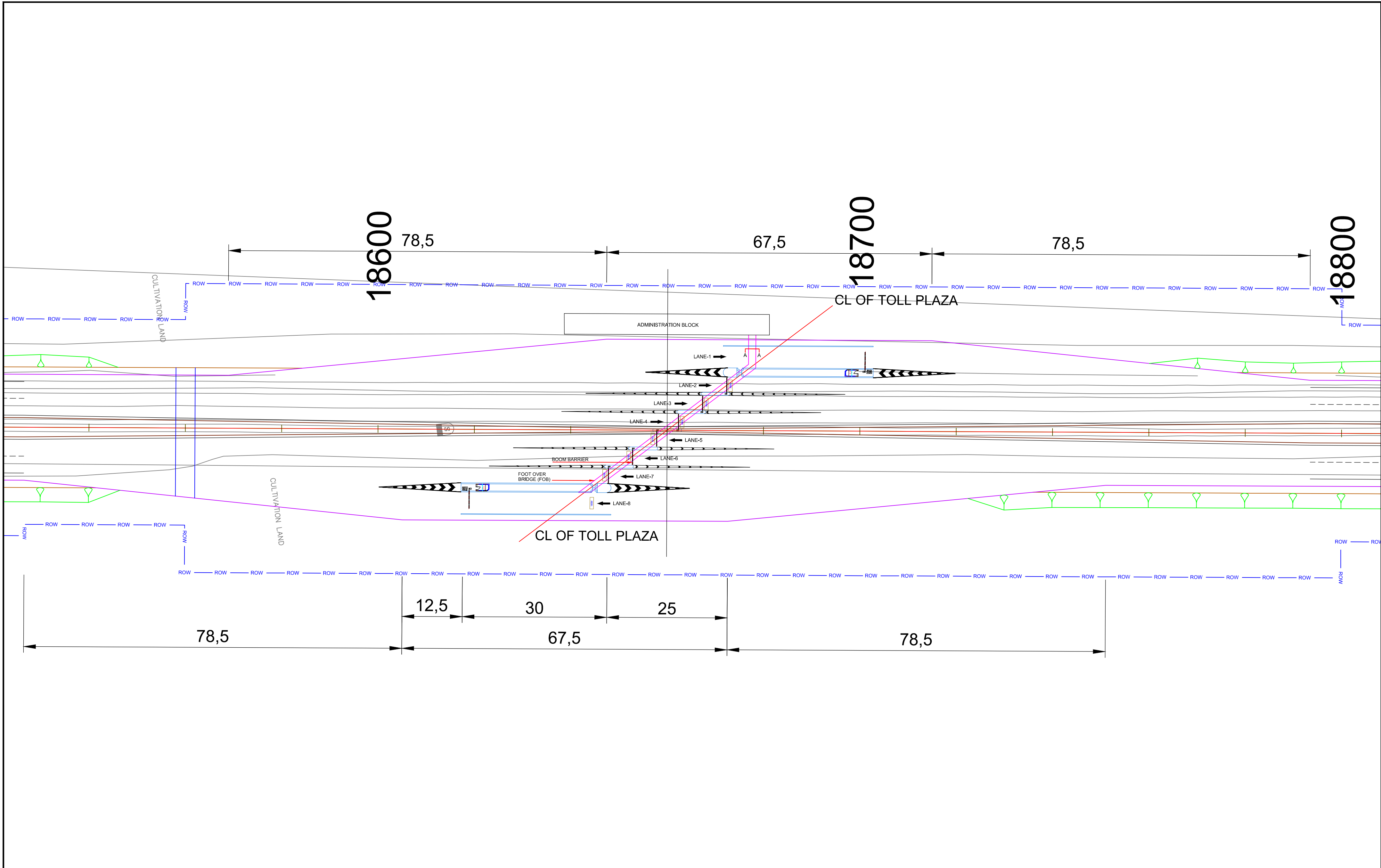


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MKD.				DATE				DESCRIPTION				BY				DESIGNED M.Rakesh				CHECKED Sujoy Sinha				APPROVED J.K.Das					
REVISION																								SHEET SIZE A2					



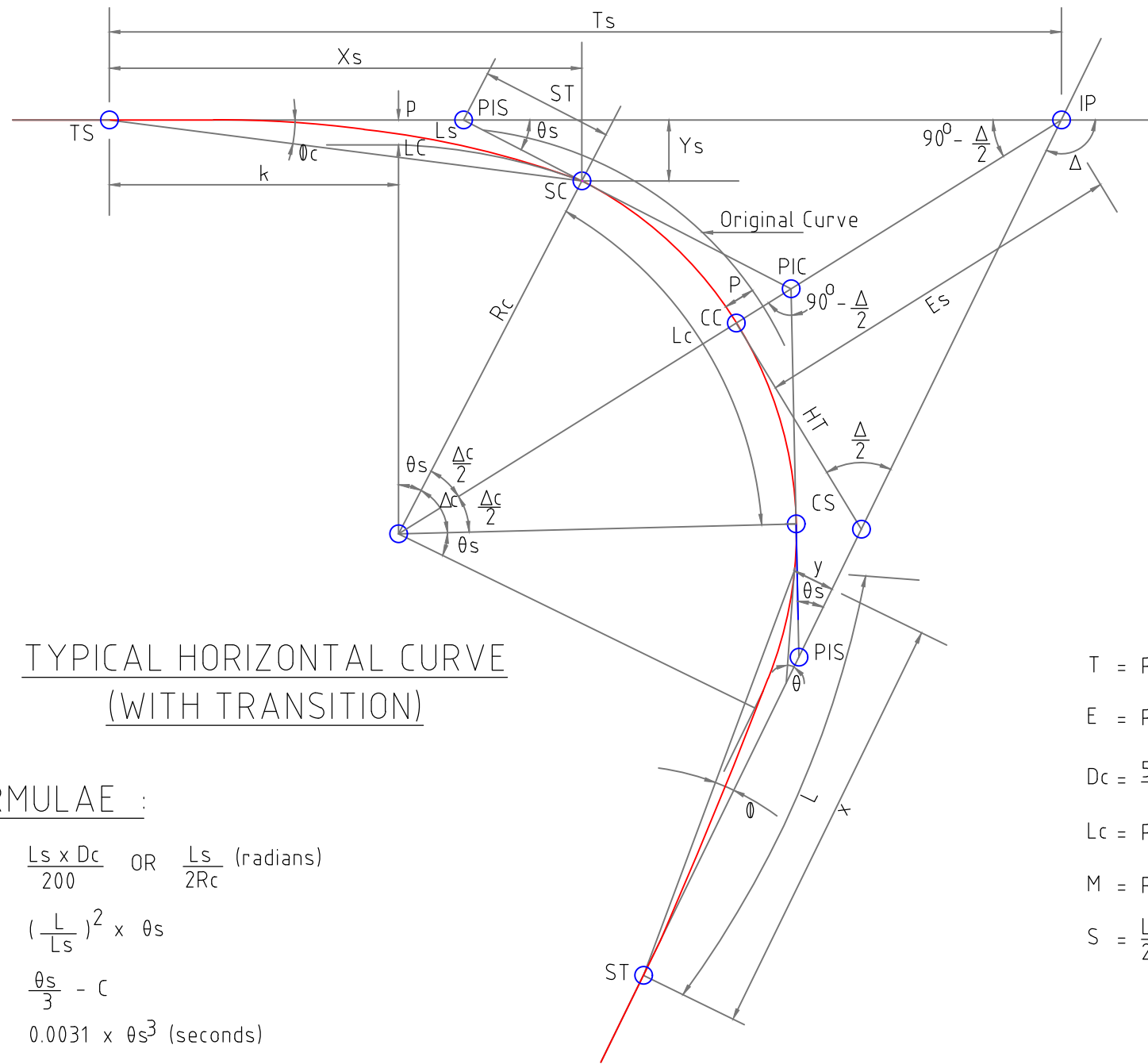
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INDUSTRIAL ESTATE, MATHURA ROAD,				Government of India								DESIGNED		CHECKED	
NEW DELHI-110044				PROJECT:								M.Rakesh		Sujoy Sinha	
INDIA				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"								APPROVED		J.K.Das	
REVISION				SCALE:										SHEET SIZE A2	
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				0 2 4 6 8 10m											
				VERTICAL SCALE											

TOLL PLAZA



				DESIGN CONSULTANT:		SCALE:		CLIENT:		DRAWING TITLE:		DRG. NO.		REV.	
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				INDUSTRIAL ESTATE, MATHURA ROAD,		DESIGNED						CHECKED		APPROVED	
				NEW DELHI-110044		M.Rakesh						Sujoy Sinha		J.K.Das	
				INDIA		  								SHEET SIZE A2	
MKD. DATE DESCRIPTION BY															
REVISION															

MISCELLANEOUS DRAWINGS



TYPICAL HORIZONTAL CURVE
(WITH TRANSITION)

FORMULAE :

$$\theta_s = \frac{L_s \times D_c}{200} \quad \text{OR} \quad \frac{L_s}{2R_c} \quad (\text{radians})$$

$$\theta = \left(\frac{L}{L_s} \right)^2 \times \theta_s$$

$$\phi_c = \frac{\theta_s}{3} - C$$

$$C = 0.0031 \times \theta_s^3 \quad (\text{seconds})$$

$$\phi = \left(\frac{L}{L_s} \right)^2 \times \phi_s$$

$$\Delta_c = \Delta - 2\theta_s$$

$$X_s = L_s \left(\frac{1-\theta_s^2}{10} + \frac{\theta_s^4}{216} - \frac{\theta_s^6}{9360} + \frac{\theta_s^8}{685440} \right) \quad \theta_s \text{ in radians}$$

$$Y_s = L_s \left(\frac{\theta_s^3}{3} - \frac{\theta_s^5}{42} + \frac{\theta_s^7}{1320} - \frac{\theta_s^9}{75600} + \frac{\theta_s^{11}}{6894720} \right) \quad \theta_s \text{ in radians}$$

$$ST = \frac{Y_s}{\sin \theta_s}$$

$$LT = X_s - Y_s \cot \theta_s$$

$$L_c = \frac{X_s}{\cot \phi_c} \quad \text{OR} \quad \sqrt{X_s^2 + Y_s^2}$$

$$p = Y_s - R_c(1 - \cos \theta_s) = \frac{L_s^2}{24R_c} \quad (\text{approx})$$

$$P = \frac{p}{\cos \frac{\Delta}{2}}$$

$$E_s = (R_c + p) \sec \frac{\Delta}{2} - R_c$$

$$T_s = (R_c + p) \tan \frac{\Delta}{2} + k$$

$$k = X_s - R_c \sin \theta_s$$

$$L_c = \Delta_c (\text{Radians}) R_c$$

$$\text{Radius on any point on spiral } R = \frac{R_c L_s}{L}$$

$$D_c = \frac{5729.578}{2} \quad (\text{in degrees})$$

$$HT = E_c \cot \frac{\Delta}{2}$$

Defination Of A 1° Curve
An Arc 100m in Length whose radii subtend an angle of 1°.
Rc = 5729.578m

$$T = R_c \tan \frac{\Delta}{2}$$

$$E = R_c \left(\sec \frac{\Delta}{2} - 1 \right) = \sqrt{T^2 + R_c^2} - R_c$$

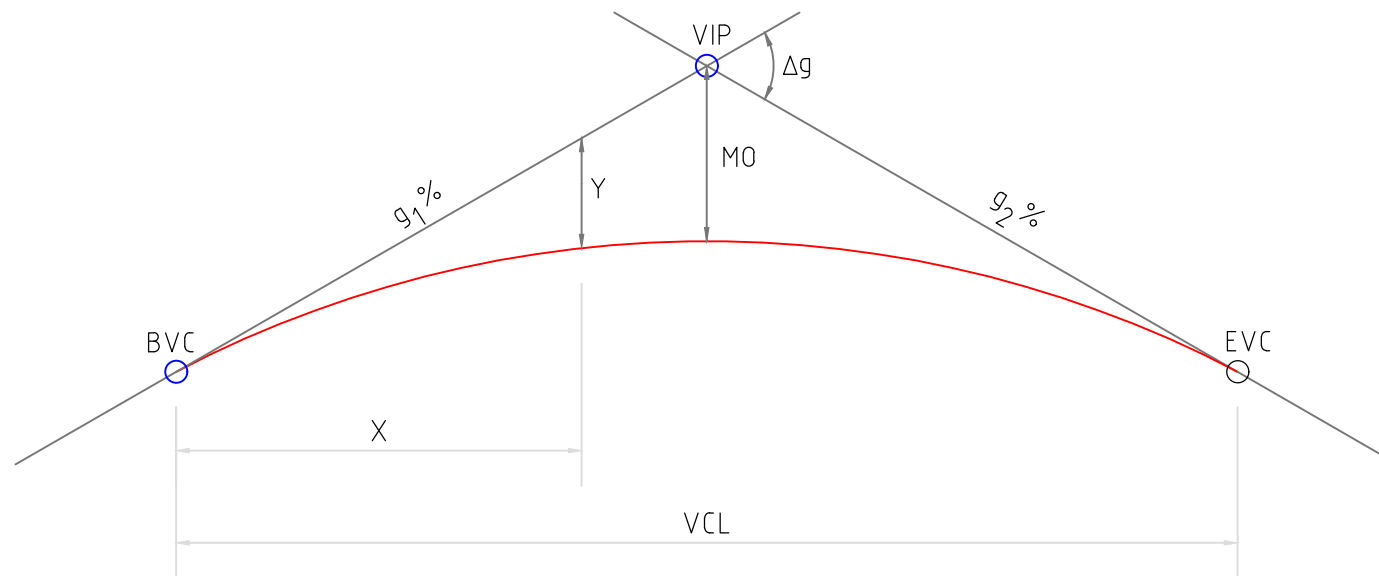
$$D_c = \frac{5729.578}{R_c}$$

$$L_c = R_c \frac{\Delta \pi}{180} \quad (\Delta \text{ is in degrees}) = R_c \Delta \quad (\Delta \text{ is in radius})$$

$$M = R_c \left(1 - \cos \frac{\Delta}{2} \right)$$

$$S = \frac{L_s}{24R_c}$$

TYPICAL HORIZONTAL CIRCULAR CURVE



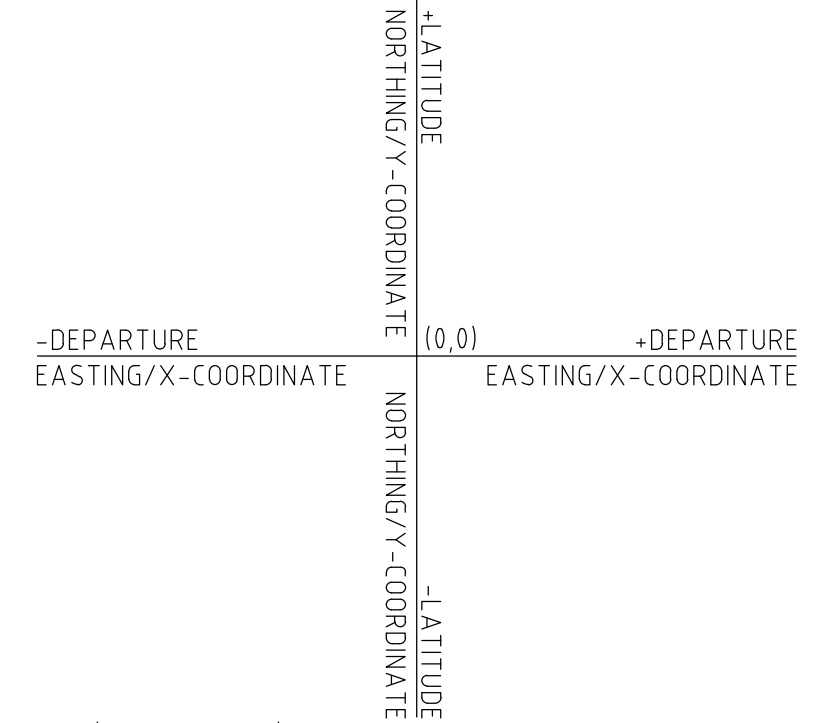
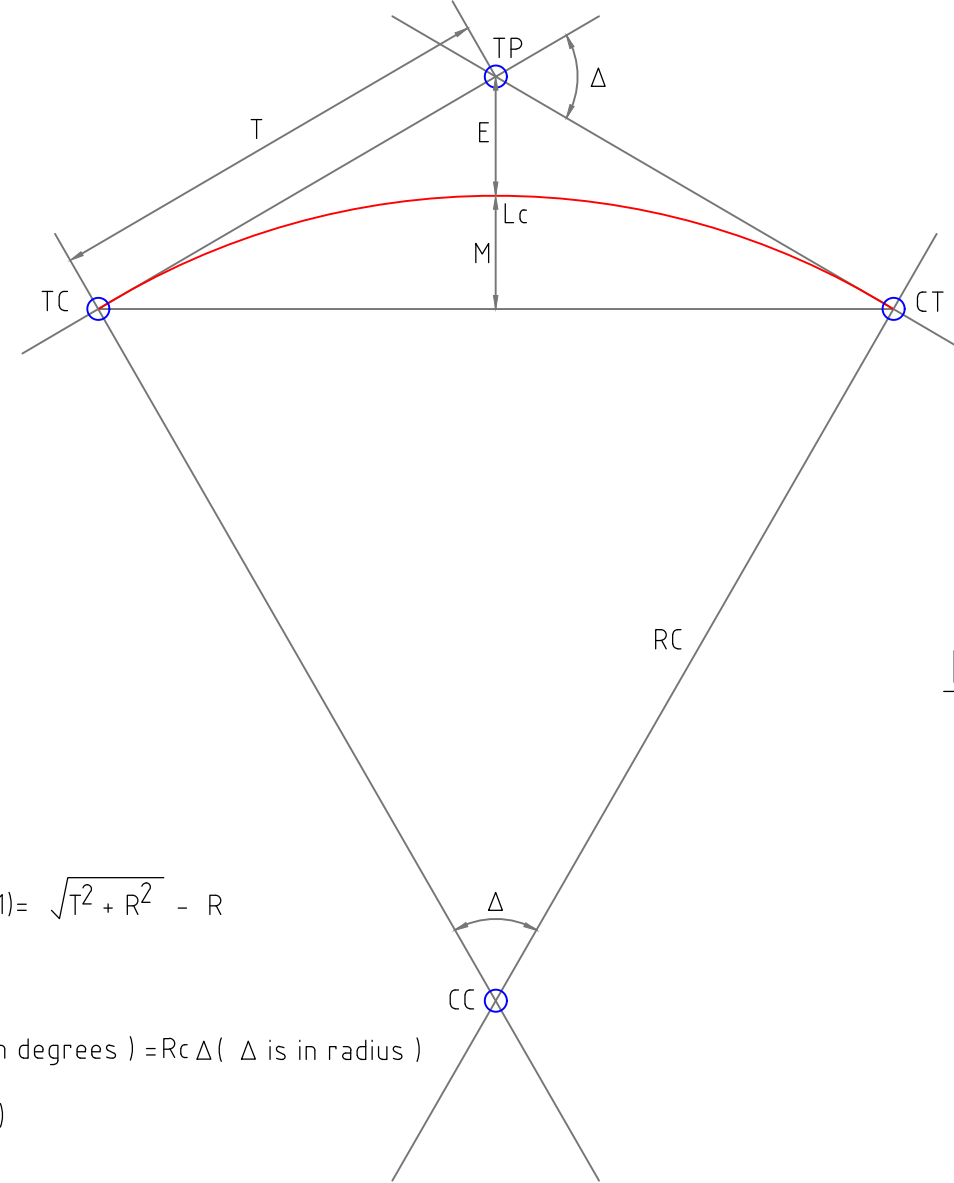
$$\Delta g = g_1\% - g_2\%$$

$$Y = \frac{\Delta g}{200 VCL} \times X^2$$

$$MO = \frac{\Delta g VCL}{800}$$

$$K = \frac{VCL}{\Delta g}$$

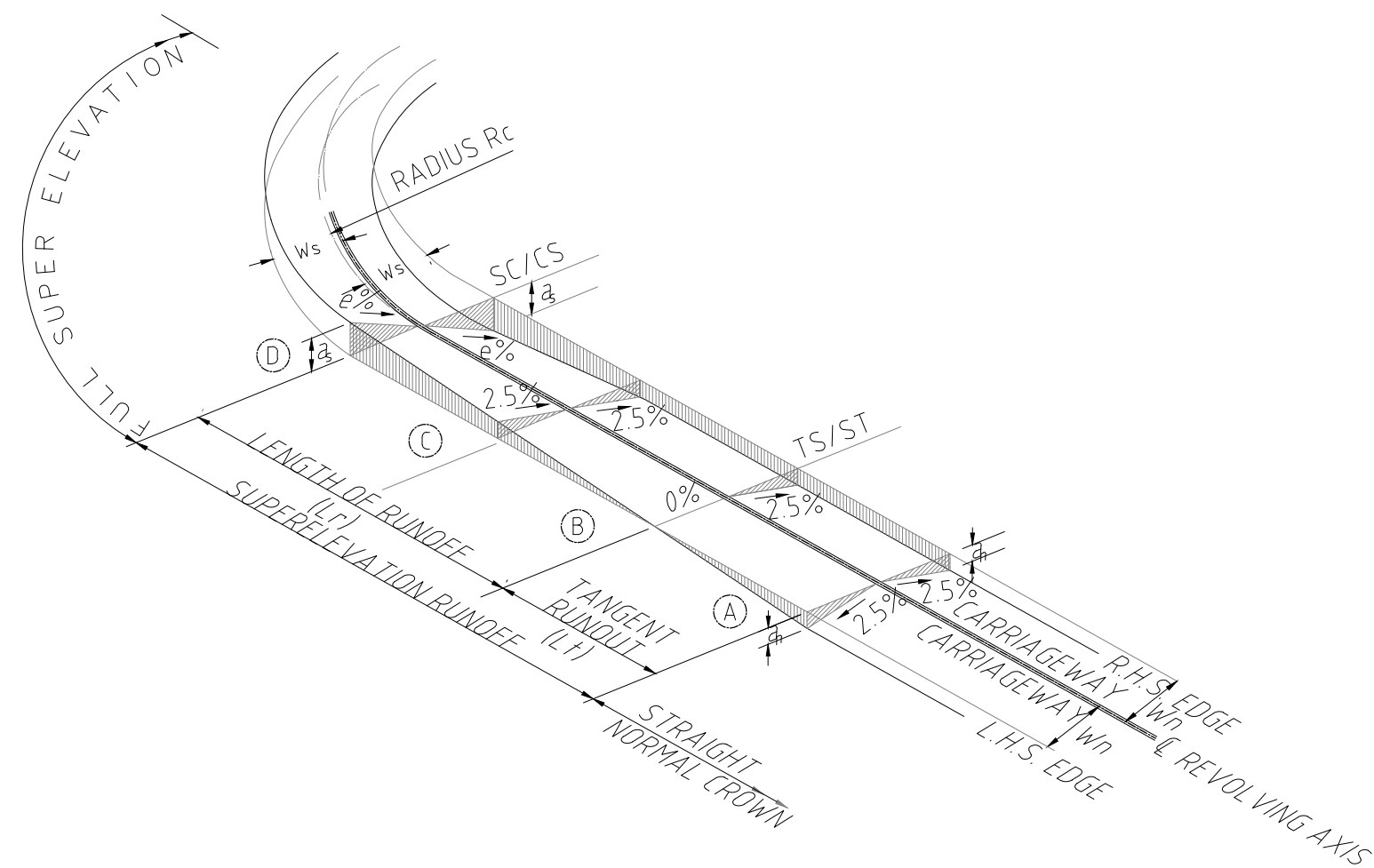
TYPICAL VERTICAL CURVE
PARABOLIC CURVE



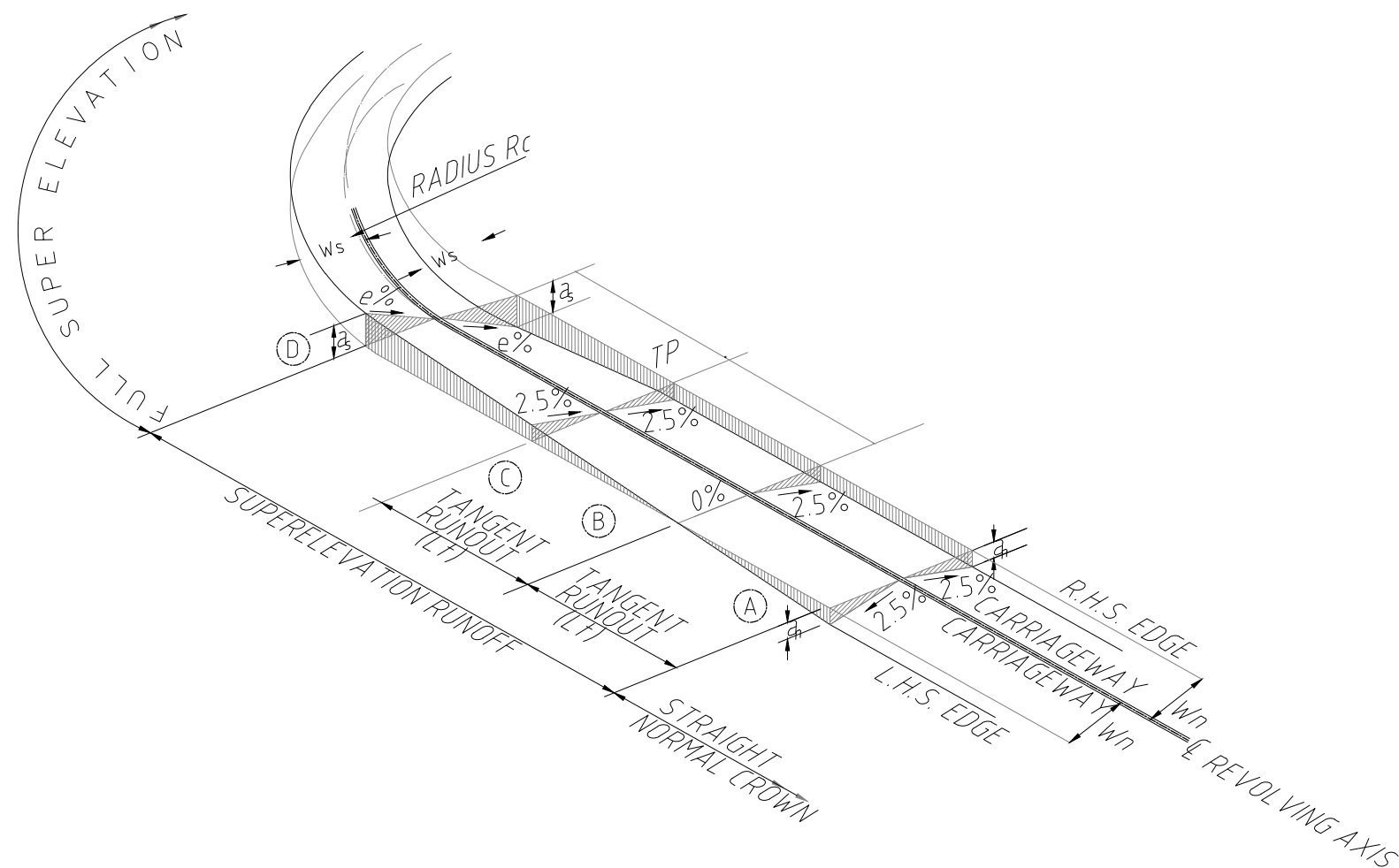
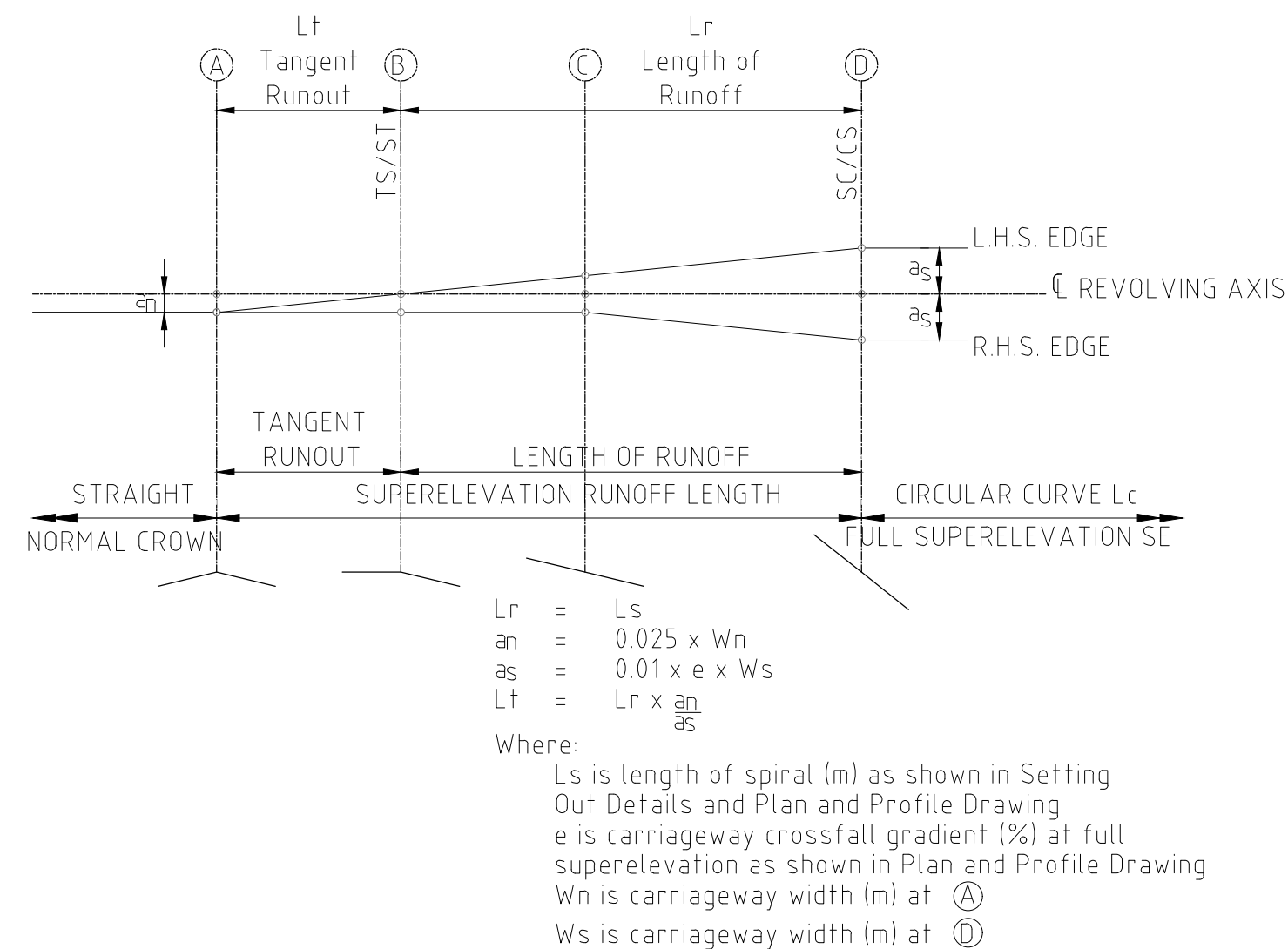
NOTATION.

- Δ TOTAL DEFLECTION ANGLE (CURVE DELTA)
- IP INTERSECTION POINT OF TANGENTS (HORIZONTAL POINT OF INTERSECTION)
- TS POINT OF CHANGE FROM TANGENT TO SPIRAL
- ST POINT OF CHANGE FROM SPIRAL TO TANGENT
- SC POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
- TC POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
- CT POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
- CS POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
- CC CIRCULAR CURVE CENTER
- θs CENTRAL ANGLE OF SPIRAL ARC Ls (SPIRAL ANGLE)
- φc DEFLECTION ANGLE AT TS FROM INITIAL TANGENT TO SC OR AT ST FROM INITIAL TANGENT TO CS
- Rc RADIUS OF CIRCULAR CURVE.
- Ls LENGTH OF SPIRAL CURVE FROM TS TO SC OR ST TO CS.
- Lc LENGTH OF CIRCULAR CURVE
- L TOTAL LENGTH OF CURVE FROM TS TO ST.
- Δc CENTRAL ANGLE OF CIRCULAR CURVE.
- Xs TANGENT DISTANCE FOR SC/CS WITH REFERENCE TO TS/ST.
- Ys TANGENT OFFSET AT SC/CS WITH REFERENCE TO TS /ST.
- ST SHORT TANGENT.
- LT LONG TANGENT.
- k TANGENT DISTANCE FROM TS TO PC OF THE SHIFTED CIRCULAR CURVE.
- Ts TOTAL TANGENT DISTANCE (IP TO TS OR ST)
- Es EXTERNAL DISTANCE (OFFSET FROM IP TO MIDDLE OF THE CURVE) FOR HORIZONTAL CURVE WITH TRANSITION.
- LR LENGTH OF RUN OFF.
- SE SUPERELEVATION IN PERCENTAGE.
- LC LONG CHORD (TS TO SC OR ST TO CS).
- p OFFSET FROM THE INITIAL TANGENT TO A PARALLEL TANGENT OF SHIFTED CURVE.
- P CENTRAL SHIFT OF CIRCULAR CURVE.
- HT HALF TANGENT DISTANCE.
- Dc DEGREE OF CIRCULAR CURVE.
- PIS INTERSECTION OF LONG TANGENT AND SHORT TANGENT OF SPIRAL.
- A PARAMETER OF CLOTHOID.
- T TANGENT LENGTH (CIRCULAR CURVE).
- C CORRECTION FACTOR FOR SPIRAL DEFLECTION ANGLE.
- E LENGTH OF EXTERNAL DISTANCE ORDINATES
- Δg ALGEBRAIC DIFFERENCE IN GRADES (PERCENT) OF THE GRADES TANGENTS.
- VIP VERTICAL POINT OF INTERSECTION.
- BVC BEGINNING OF VERTICAL CURVE (POINT OF TANGENT TO CURVE).
- EVC END OF VERTICAL CURVE (POINT OF CURVE TO TANGENT).
- g GRADIENT.
- MO MID-ORDINATE (VERTICAL OFFSET FROM VIP TO THE MIDDLE OF CURVE).
- VCL VERTICAL CURVE LENGTH MEASURED HORIZONTALLY.
- I SPIRAL ARC FROM TS OR ST TO ANY POINT ON SPIRAL.
- θ SPIRAL ANGLE AT ANY POINT ON THE SPIRAL I.E THE ANGLE BETWEEN THE TANGENT AT THE SPIRAL AND TANGENT DISTANCE.
- φ DEFLECTION FROM TANGENT AT TS TO ANY POINT ON THE SPIRAL.
- K HORIZONTAL DISTANCE REQUIRED TO EFFECT A ONE PERCENT CHANGE IN GRADIENT.
- M LENGTH OF MIDDLE ORDINATE DISTANCE
- S SHIFT

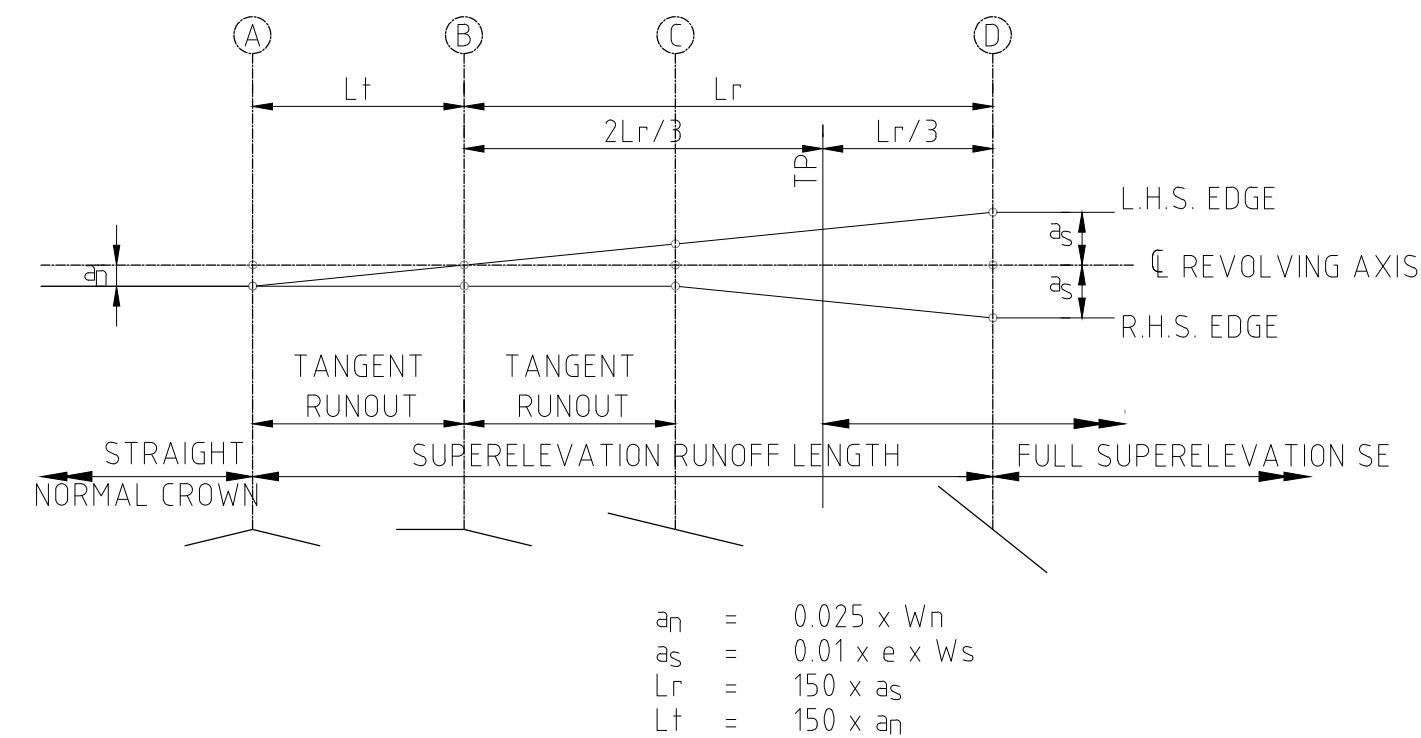
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				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044		0 2 4 6 8 10m		(Ministry of Road Transport & Highways) Government of India							
				INDIA				PROJECT:				DATE: JULY 2021		DRAWN : Ravindra Patwal	
								"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DESIGNED Rakesh.M		CHECKED Sujoy Sinha	
														APPROVED J.K.Das	
														SHEET SIZE A2	



SUPERELEVATION FOR CURVE WITH SPIRAL



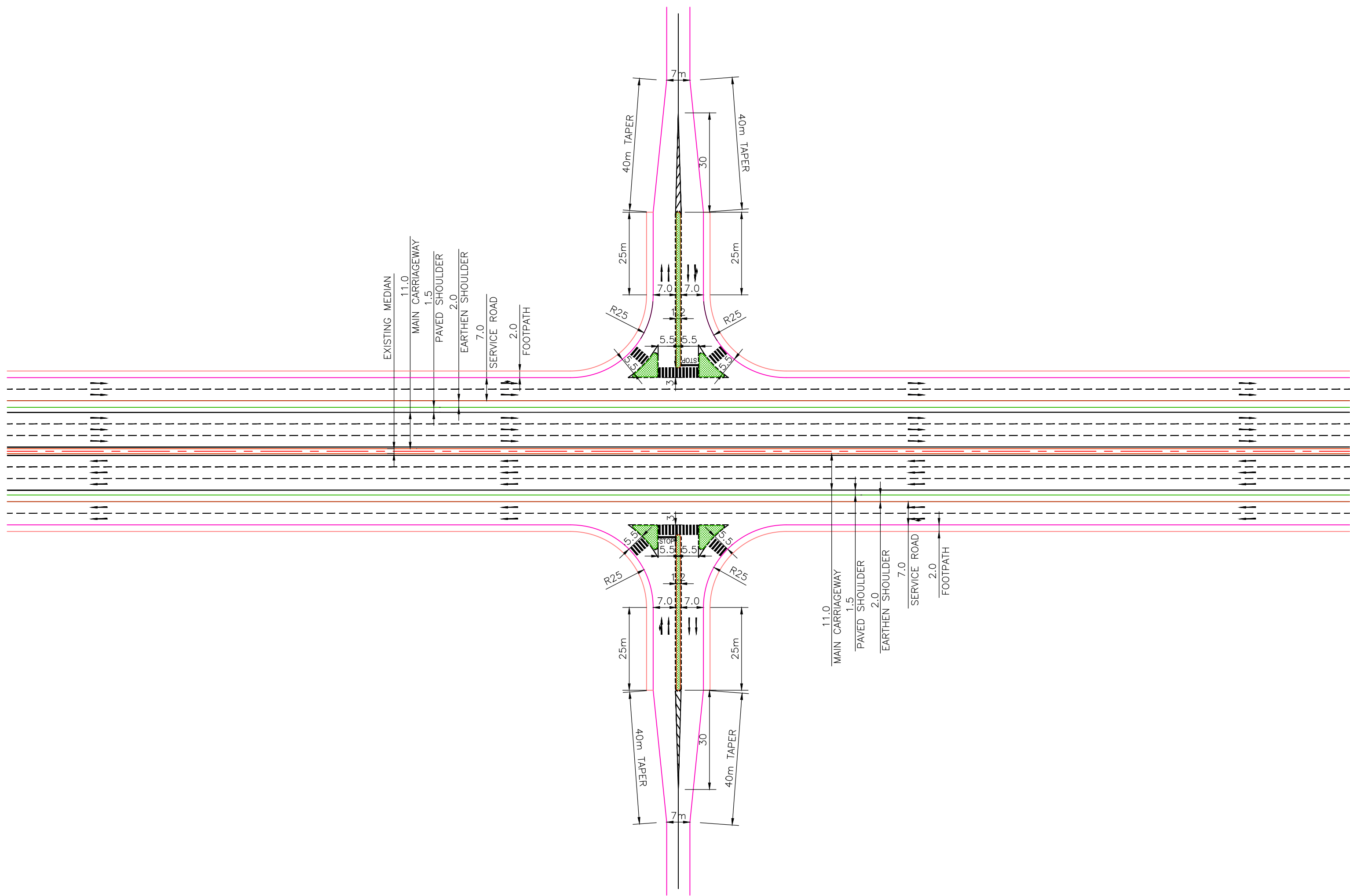
SUPERELEVATION FOR CIRCULAR CURVE



NOTE:

LEVEL OF CENTRE LINE SETTING OUT POINTS SHALL BE AS SHOWN IN PLAN AND PROFILE DRAWINGS

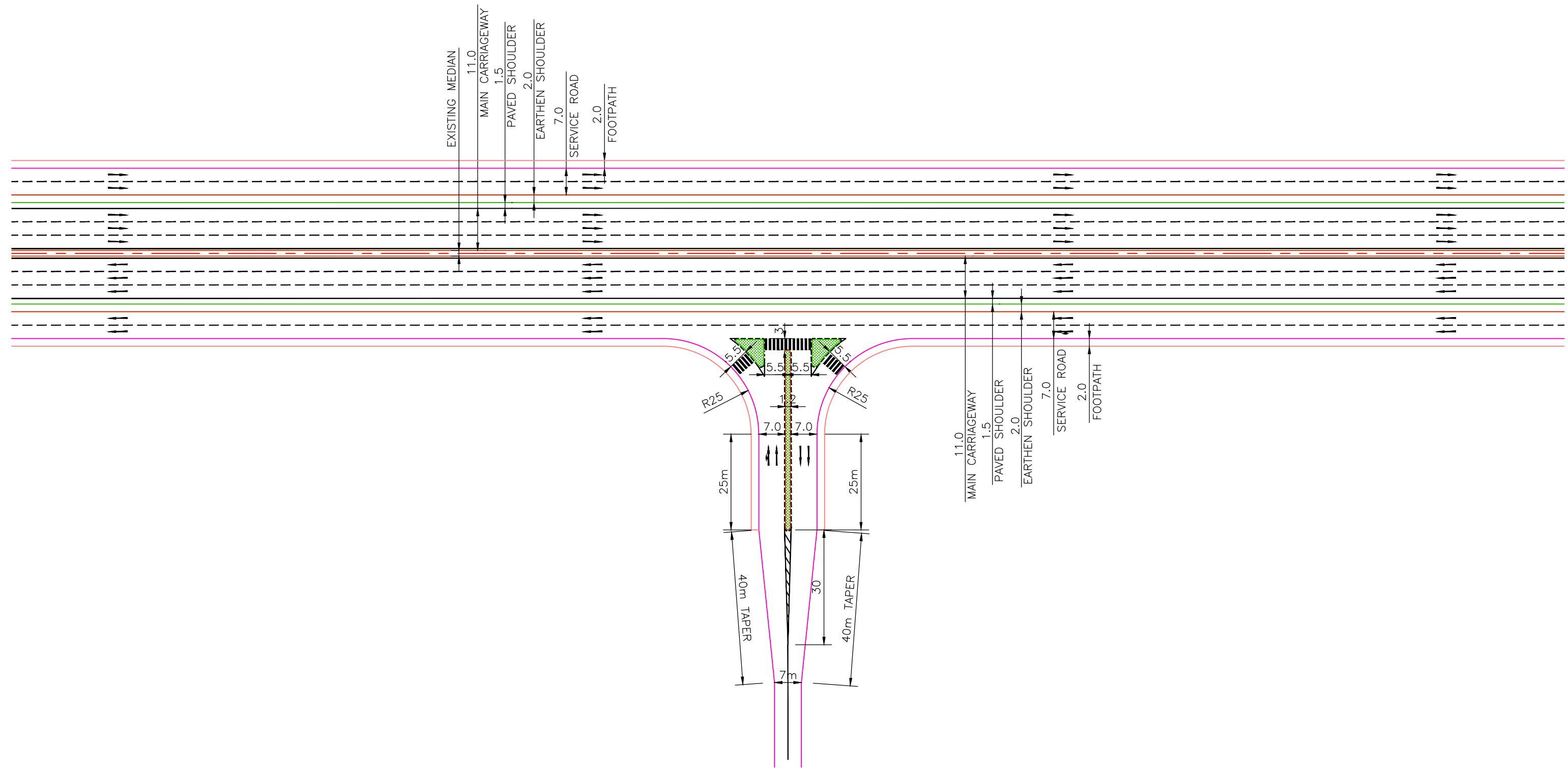
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'T' INTERSECTION

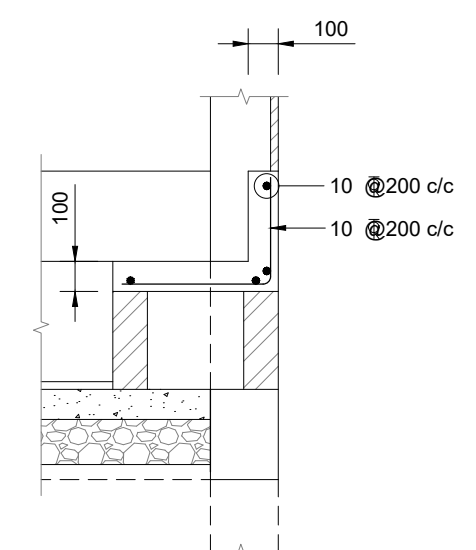
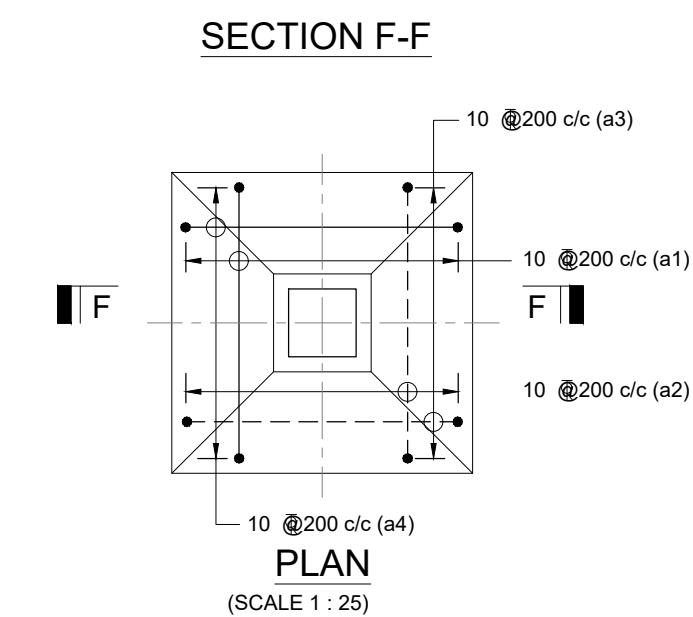
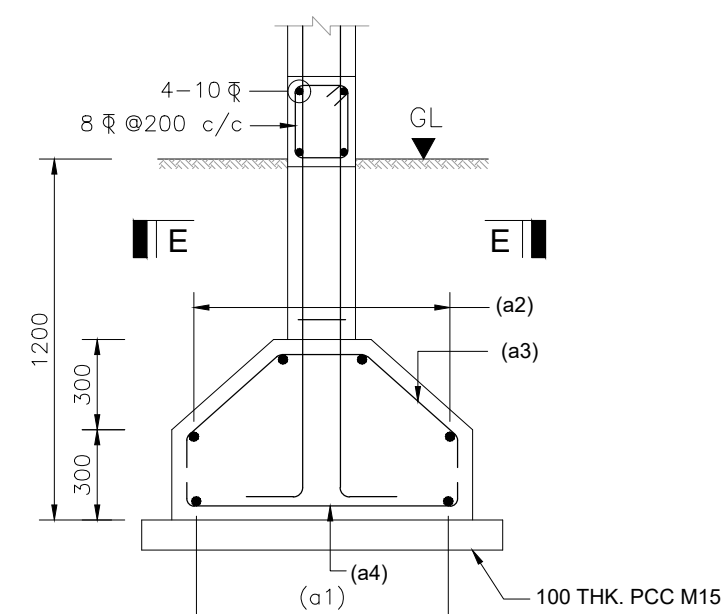
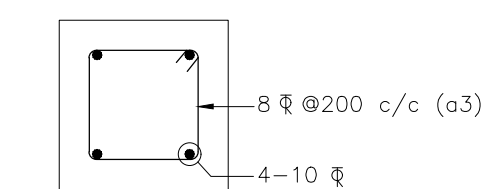
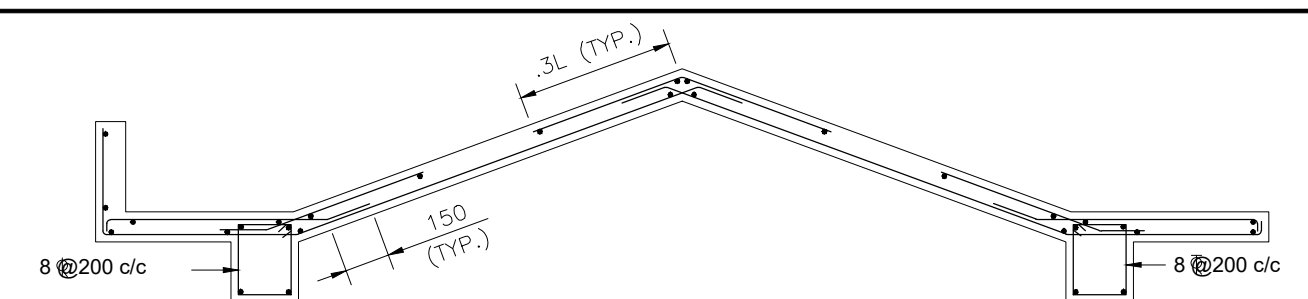
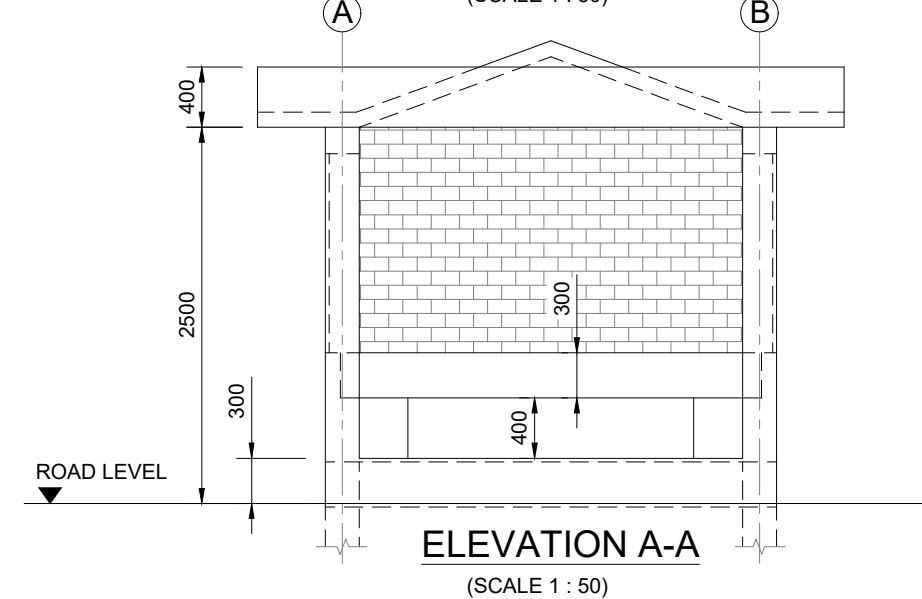
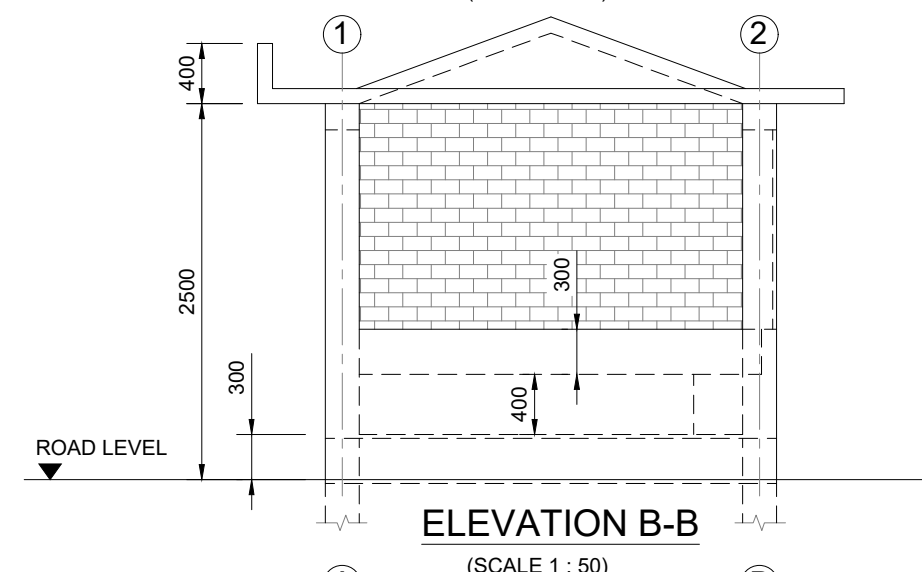
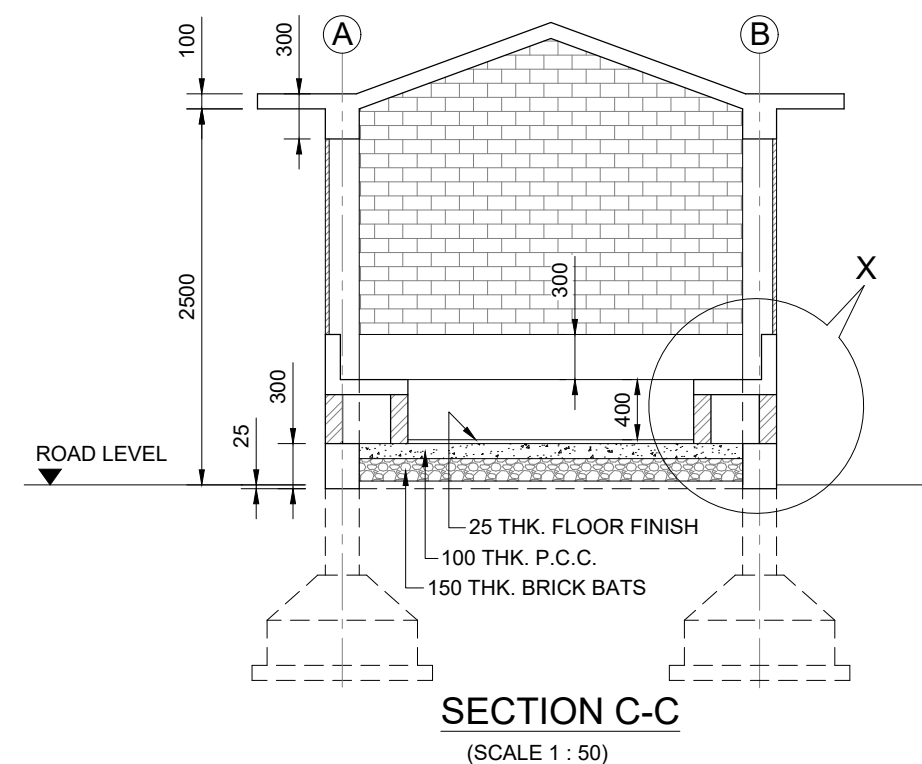
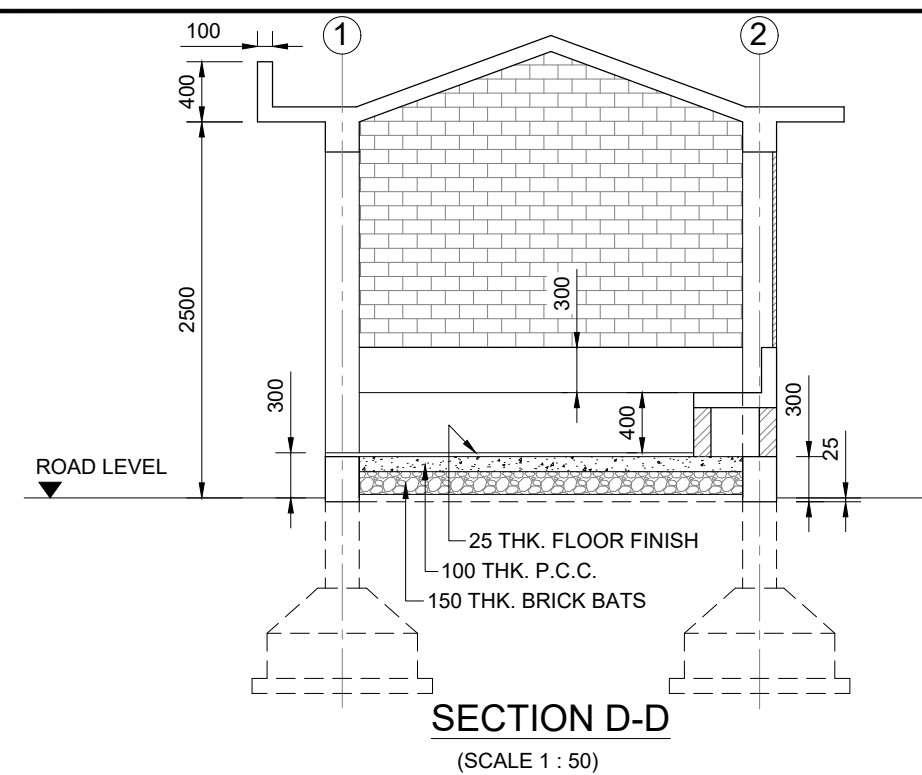
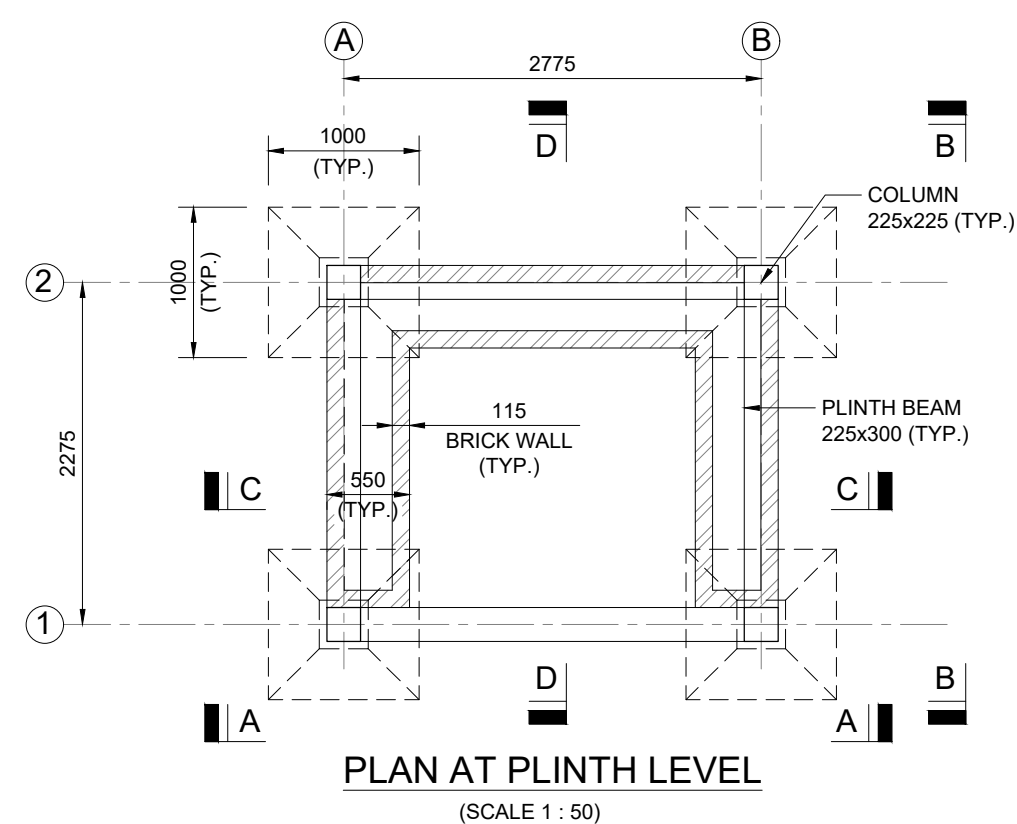
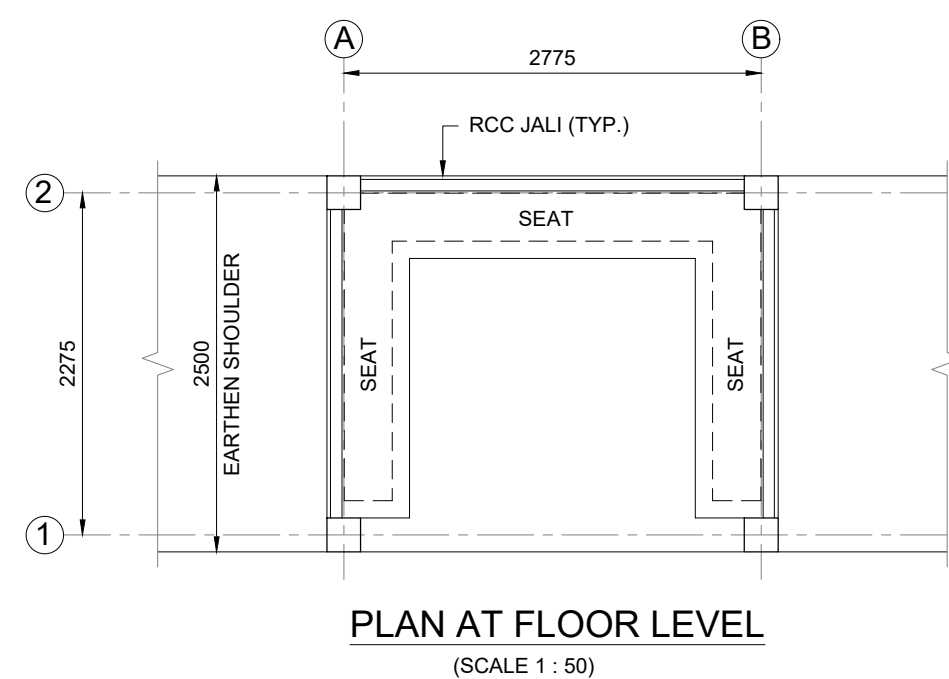
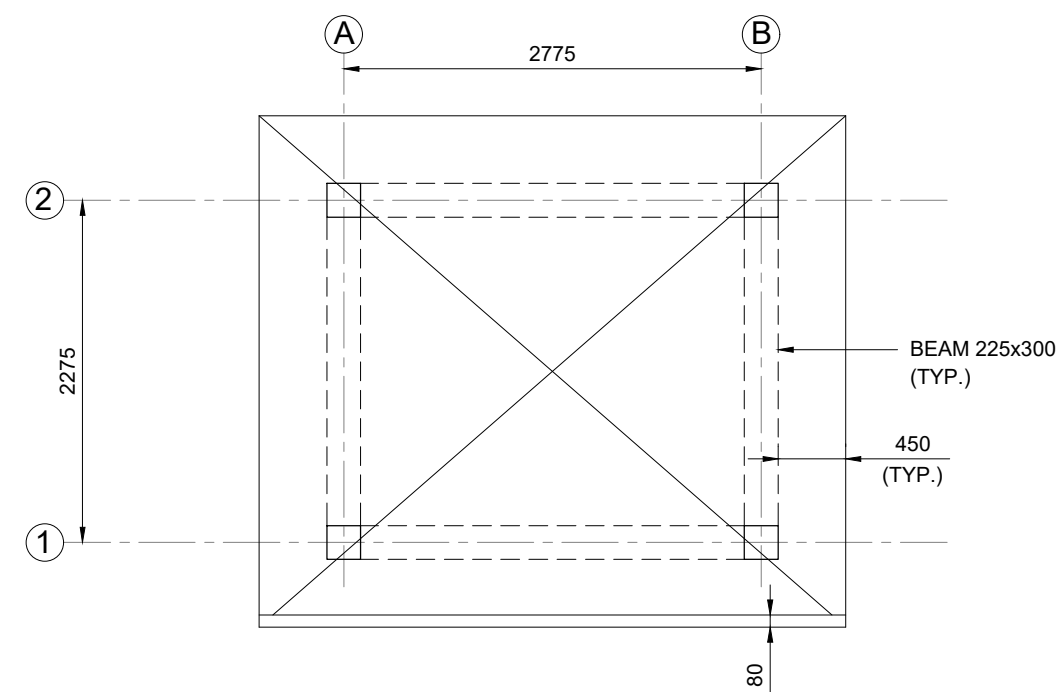
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				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044																					
				INDIA				 VERTICAL SCALE				PROJECT:				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DATE: JULY 2021		DRAWN : Ravindra Patwal			
																				DESIGNED Rakesh.M		CHECKED Sujoy Sinha		APPROVED J.K.Das	
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'T' INTERSECTION

				DESIGN CONSULTANT:	SCALE:				CLIENT:	DRAWING TITLE:				DRG. NO.	REV.
				LEA ASSOCIATES SOUTH ASIA PVT. LTD.,					 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India	TYPICAL DETAILS OF MAJOR INTERSECTION				73580\LASA\HIGHWAYS\MISC\MJ-01	0
				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044						(Sheet 2 of 3)				DATE: JULY 2021	
				INDIA					PROJECT:	"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DRAWN : Ravindra Patwal	
													DESIGNED Rakesh.M	CHECKED Sujoy Sinha	APPROVED J.K.Das
													SHEET SIZE A2		



NOTES:

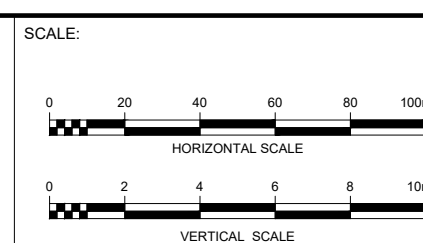
1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.

MKD.	DATE	DESCRIPTION	BY
R E V I S I O N			

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1, E-27, 1st FLOOR, MOHAN COOPERATIVE
INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI-110044
INDIA

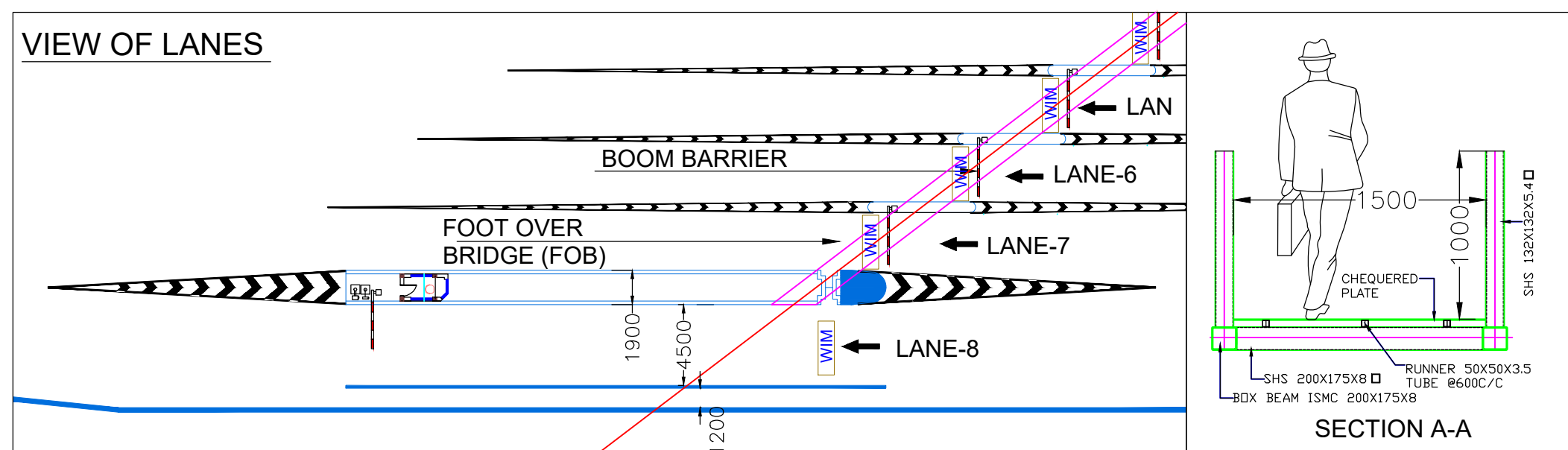
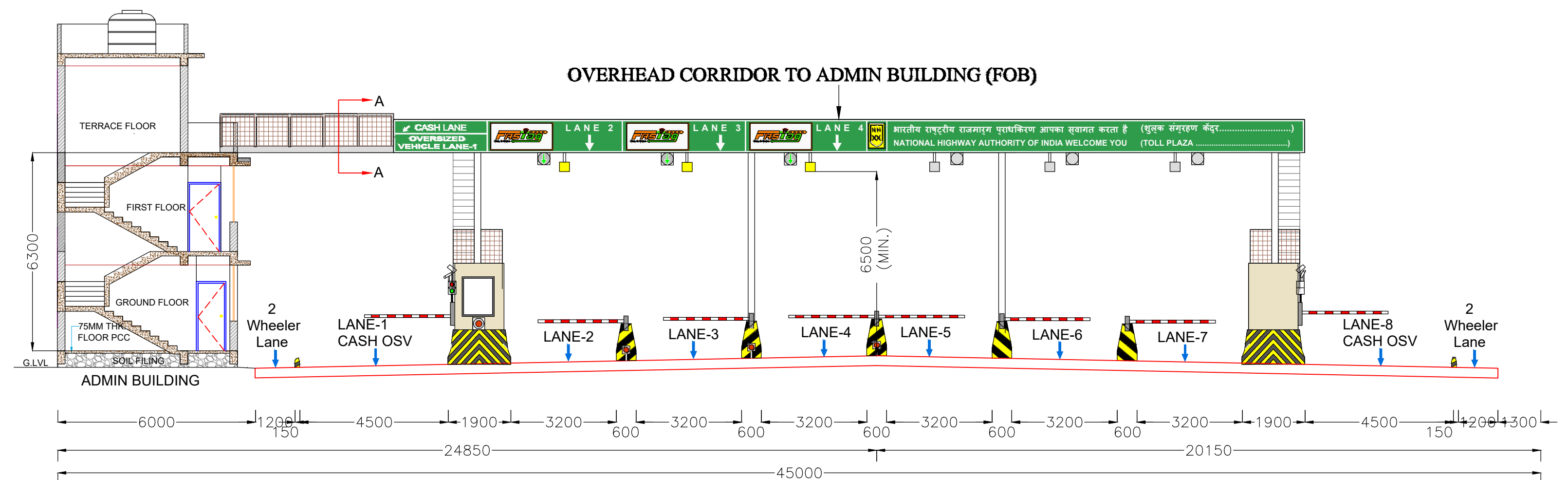
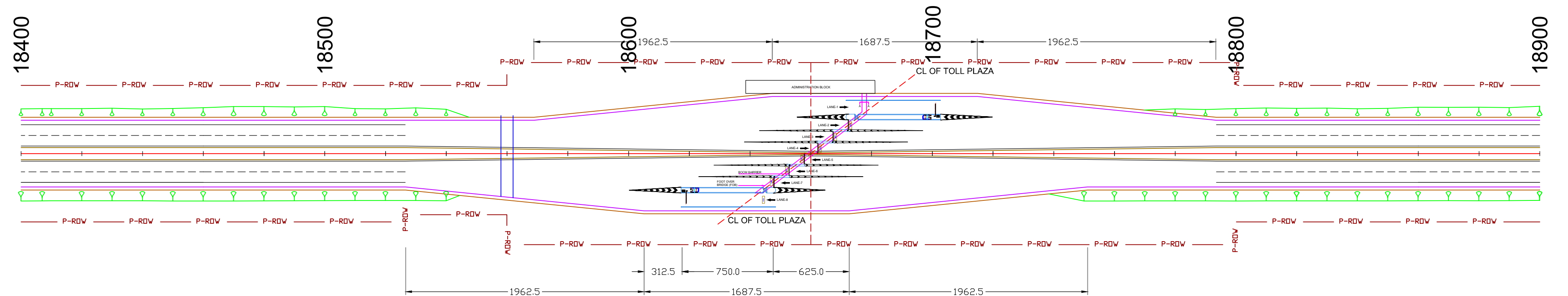


CLIENT:  **NATIONAL HIGHWAYS AUTHORITY OF INDIA**
(Ministry of Road Transport & Highways)
Government of India

PROJECT:	"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"
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DRAWING TITLE:	TYPICAL DETAILS OF BUS SHELTER
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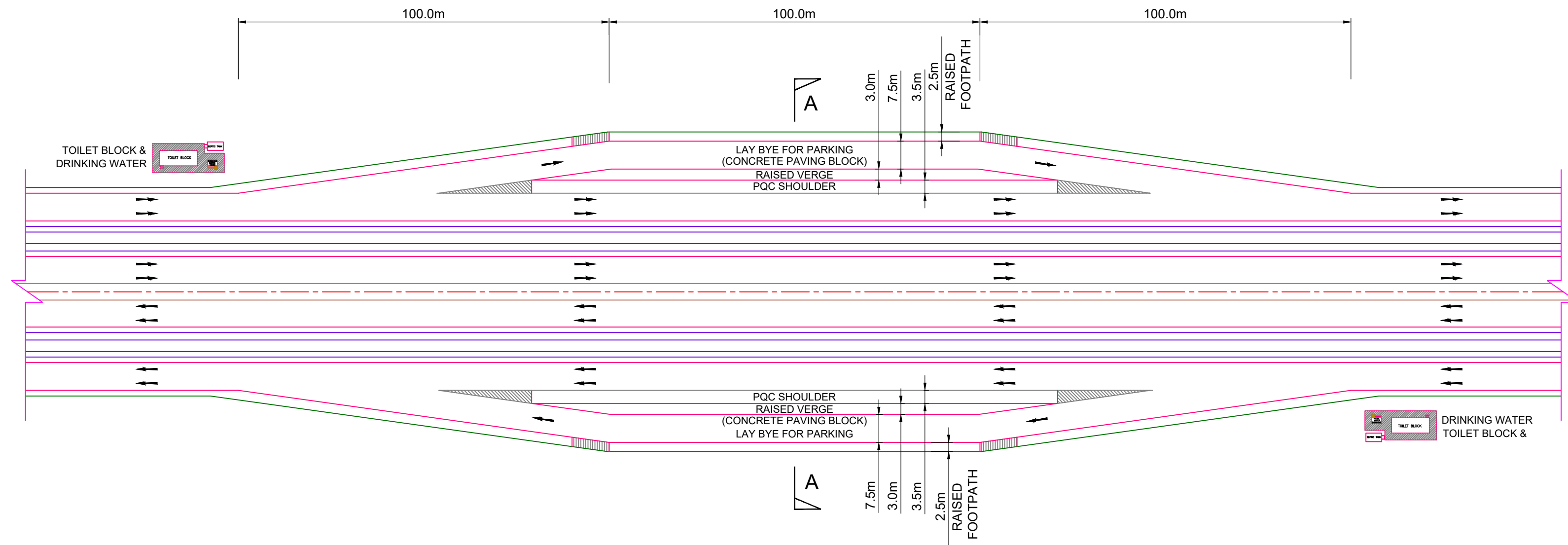
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DATE: JULY 2021		DRAWN : Ravindra Patwal	
DESIGNED Rakesh.M	CHECKED Sujoy Sinha	APPROVED J.K.Das	
		SHEET SIZE A2	



NOTES:-

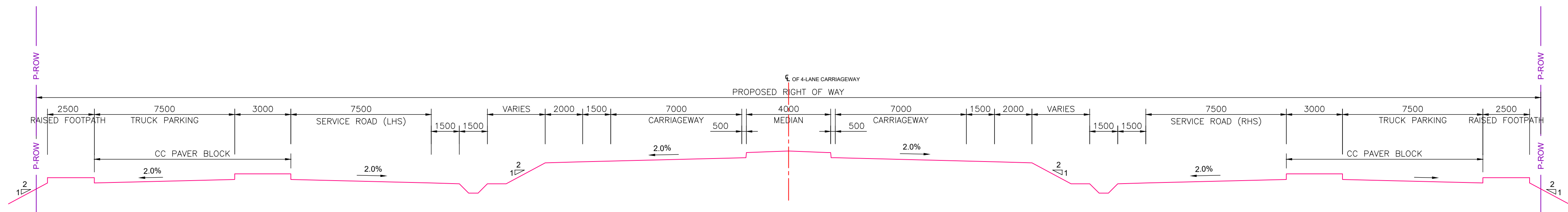
1. ALL DIMENSIONS ARE IN MM.
UNLESS OTHERWISE MENTIONED.
2. TAPER LENGTH OF TOLL PLAZA IS 1 IN 10 .
3. REFERENCE OF
IRC: SP: 84-2019 (FOR TOLL PLAZA DETAIL)
4. FOR DETAILED DESIGN OF ADMINISTRATIVE
BUILDING REFER SEPARATE DRAWING

[illegible]



TYPICAL DETAILS OF TRUCK PARKING

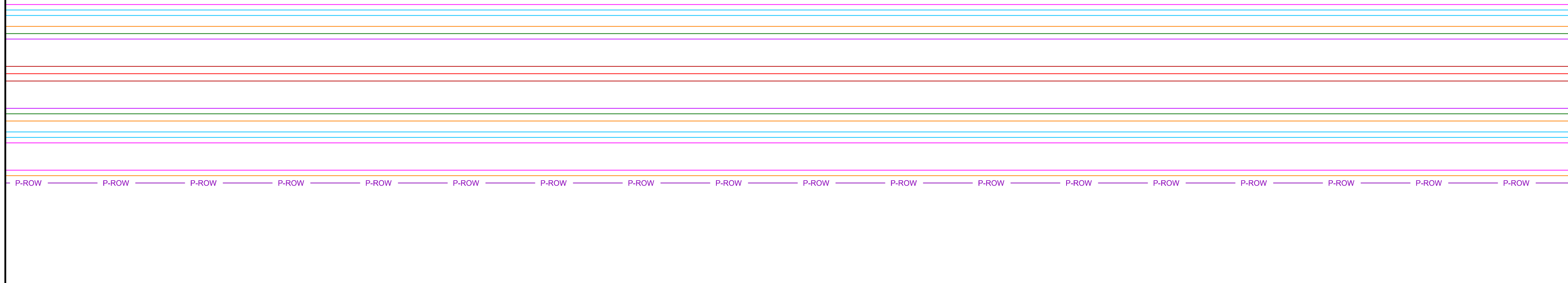
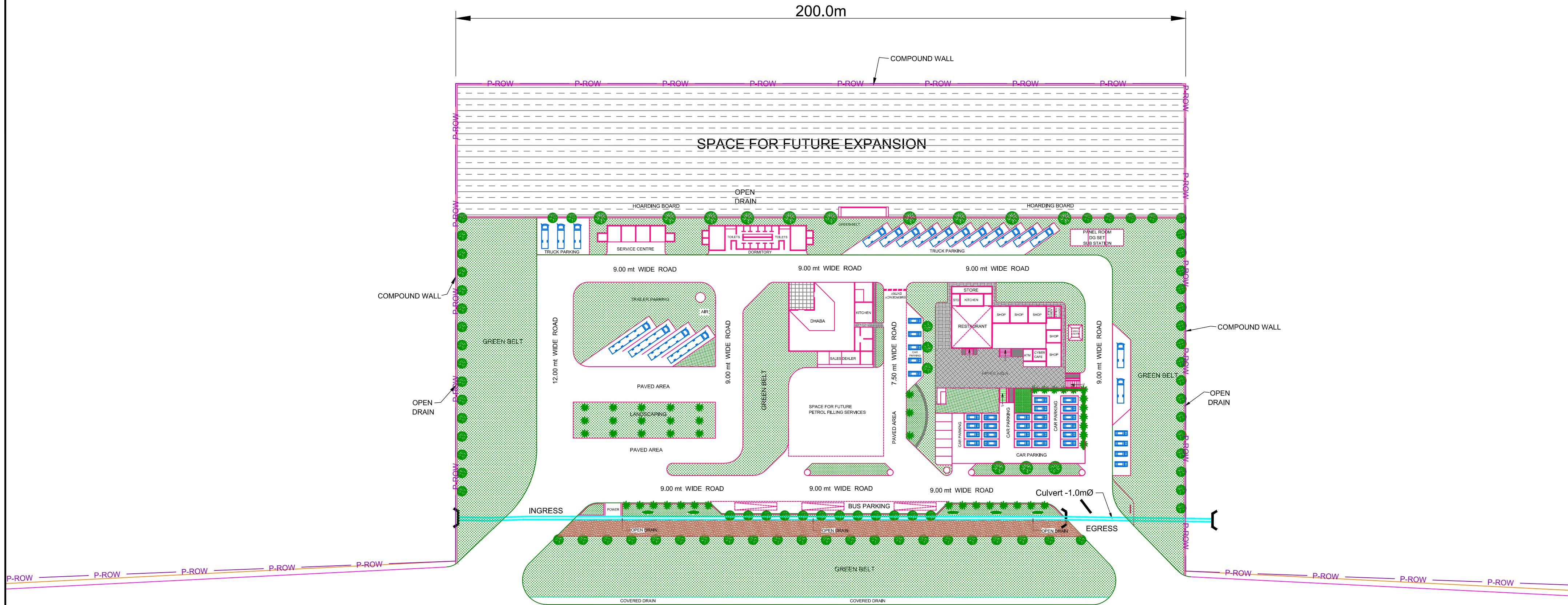
(SCALE 1 : 100)



SECTION A-A

(SCALE 1 : 150)

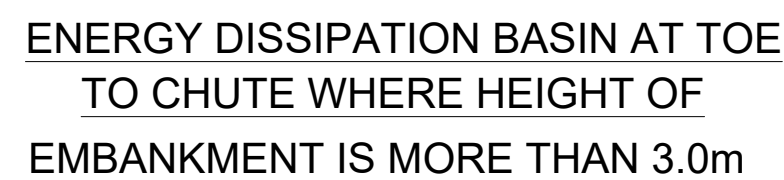
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				DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.				REV.	
				LEA ASSOCIATES SOUTH ASIA PVT. LTD.,												WAYSIDE AMENITIES				73580\LASA\HIGHWAYS\MISC\WA-01				0	
				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE								(Ministry of Road Transport & Highways)								DATE: JULY 2021				DRAWN : Ravindra Patwal	
				INDUSTRIAL ESTATE, MATHURA ROAD,								Government of India								DESIGNED				CHECKED	
				NEW DELHI-110044																Rakesh.M				Sujoy Sinha	
				INDIA																				APPROVED	
																								J.K.Das	

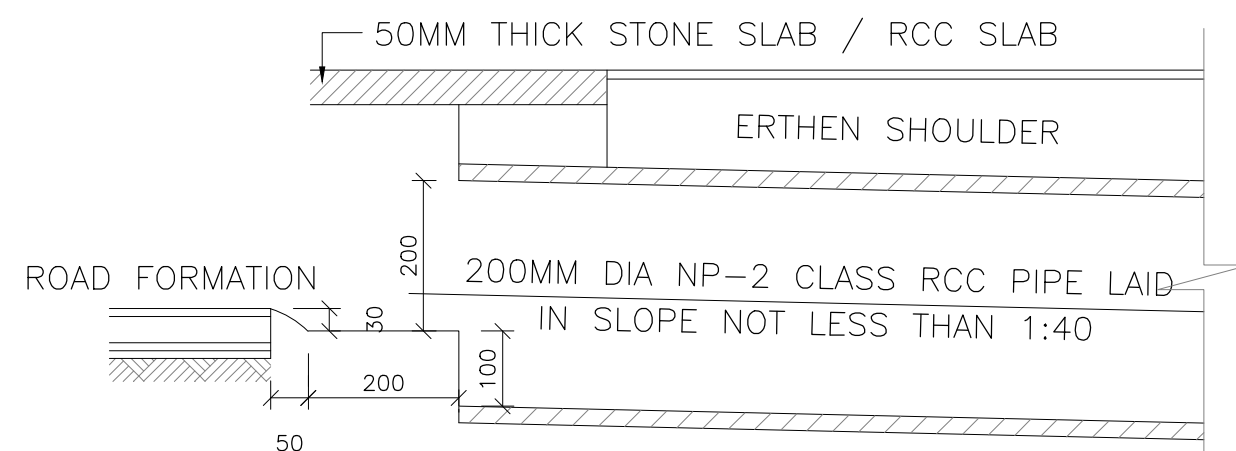


STONE PITCHING ON SIDE SLOPE



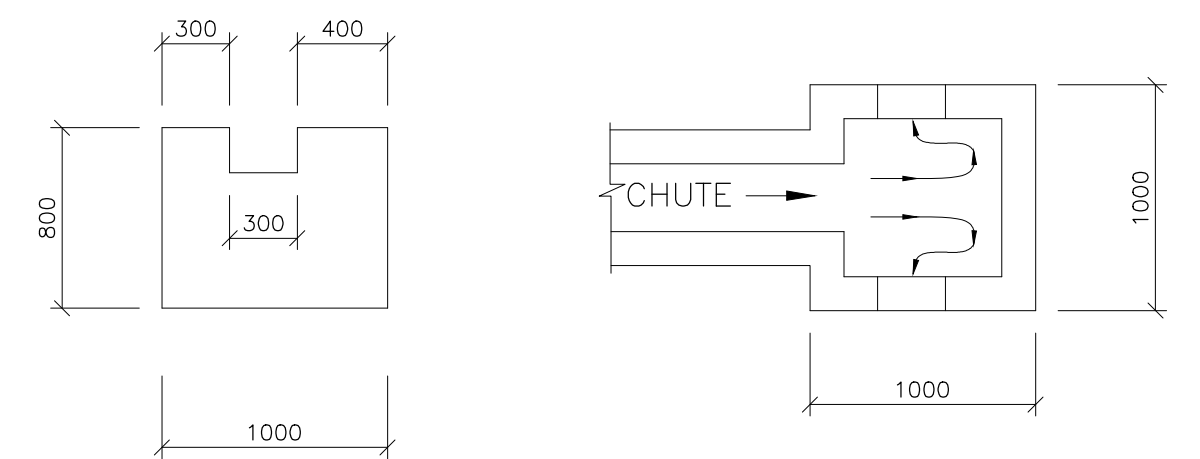
A cross-sectional diagram of a circular manhole. The manhole is a circular opening with a diameter of 200 units. It is surrounded by a concrete structure. The top of the structure is labeled 'CEMENT CONCRETE'. The side walls are labeled 'KERB STONE'. The bottom of the structure is labeled 'CARRIAGEWAY LINE'. The diagram includes several dimension lines: a vertical dimension of 75 units for the top concrete layer, a vertical dimension of 275 units for the total height of the structure, a horizontal dimension of 100 units for the radius of the manhole, and a diagonal dimension of 200 units for the diameter of the manhole.

FRONT ELEVATION



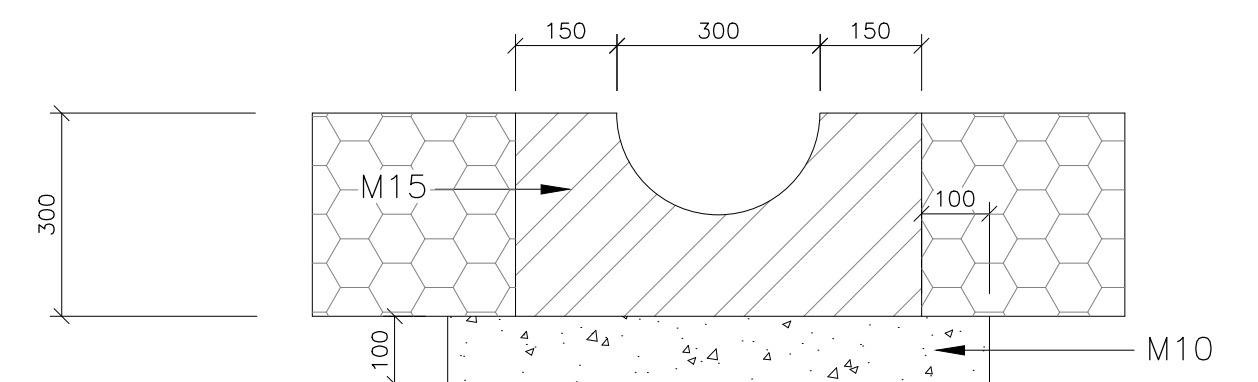
SECTION AT A-A

DETAILS OF BELL MOUTH OPENING



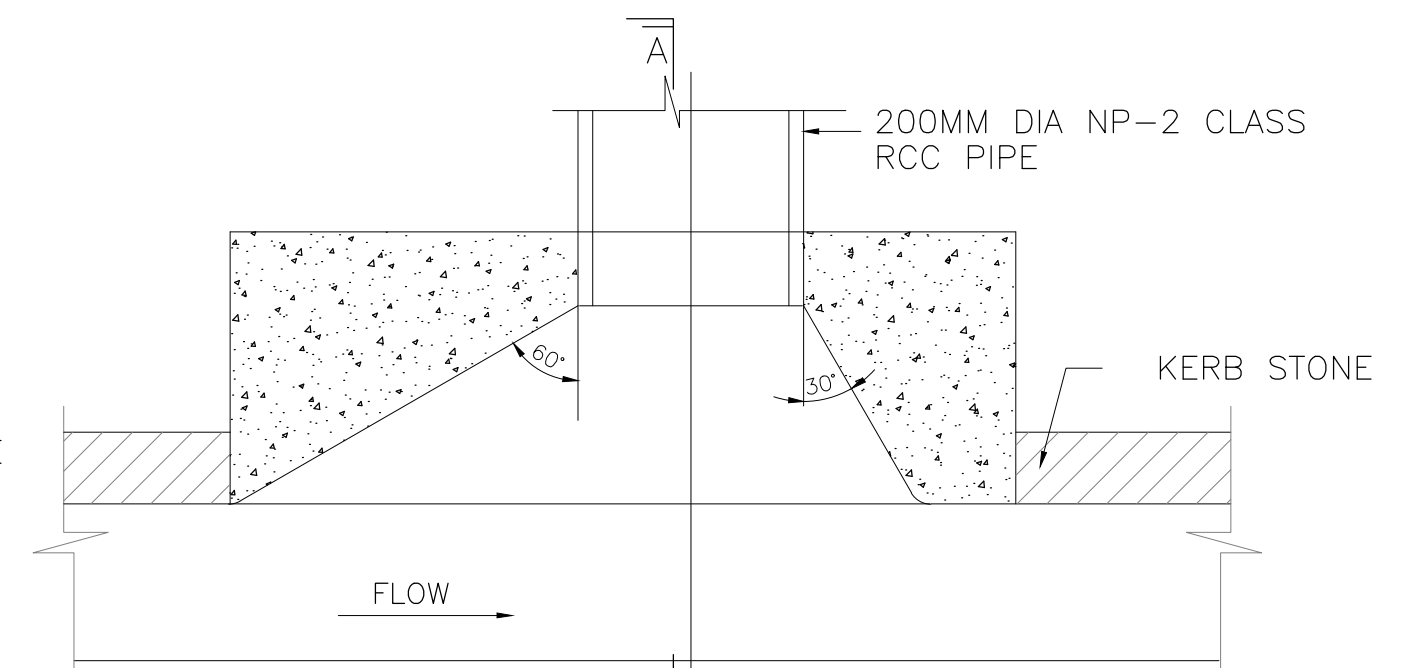
SIDE VIEW OF BASIN

PLAN OF ENERGY DISSIPATION BASIN



SECTION ON B-B

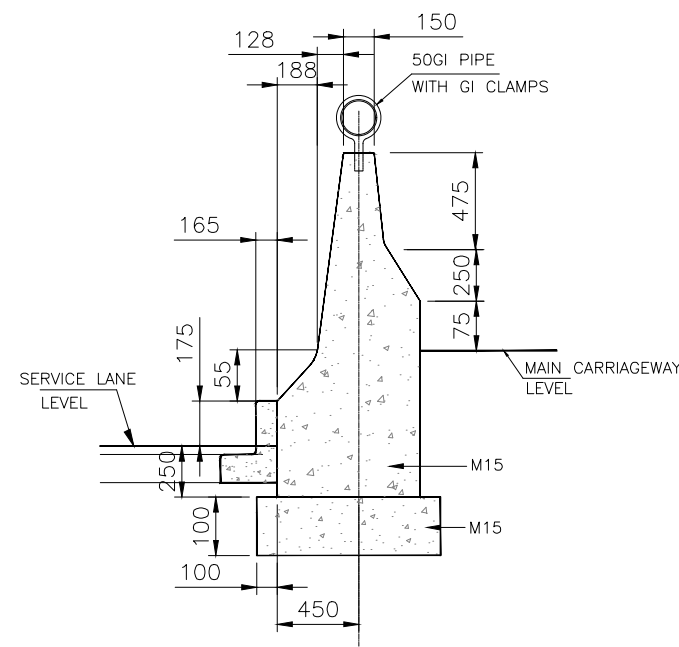
DRAINAGE CHUTE



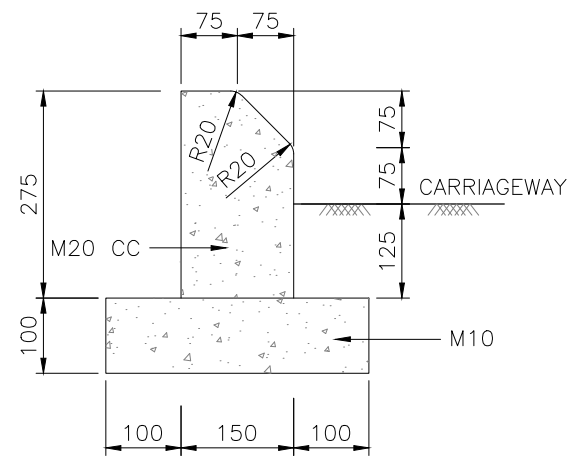
PLAN

ALL DRAWINGS REPRESENTED ARE TYPICAL AND SHOULD BE CHECKED AND VERIFIED IN ACCORDANCE TO IRC-SP-84 AND SCHEDULE.

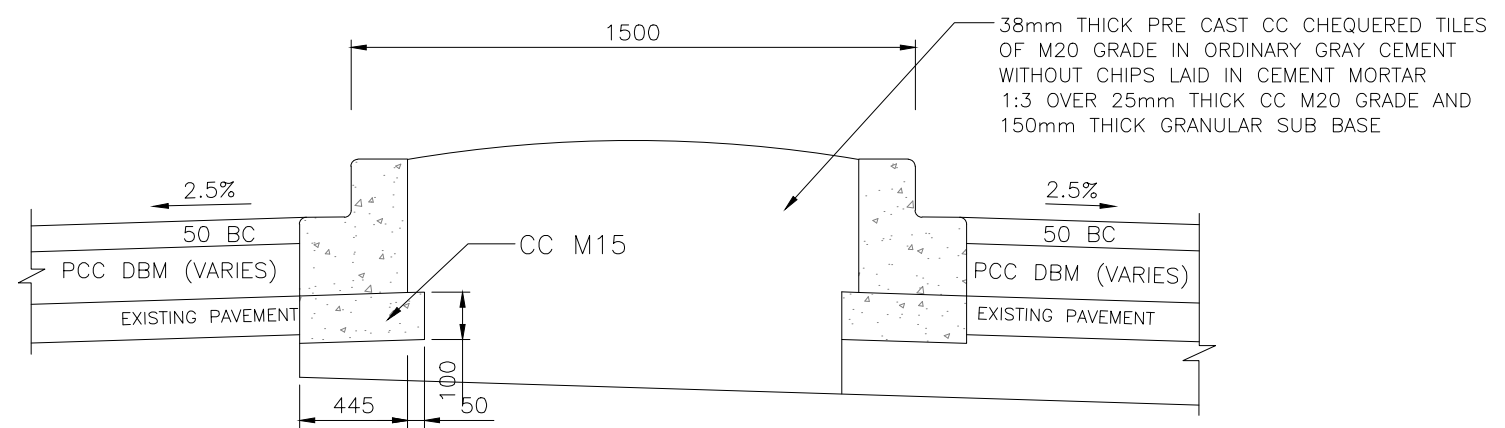
				DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IIInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA				  				SCALE:  HORIZONTAL SCALE  VERTICAL SCALE				CLIENT:  NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India				DRAWING TITLE: TYPICAL DETAILS OF PITCHING, CHUTE & STILLING BASIN				DRG. NO. 73580\LASA\HIGHWAYS\MISC\SB-01				REV. 0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
MKD. DATE DESCRIPTION BY												PROJECT: "FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DATE: JULY 2021				DRAWN : Ravindra Patwal				DESIGNED Rakesh.M				CHECKED Sujoy Sinha				APPROVED J.K.Das																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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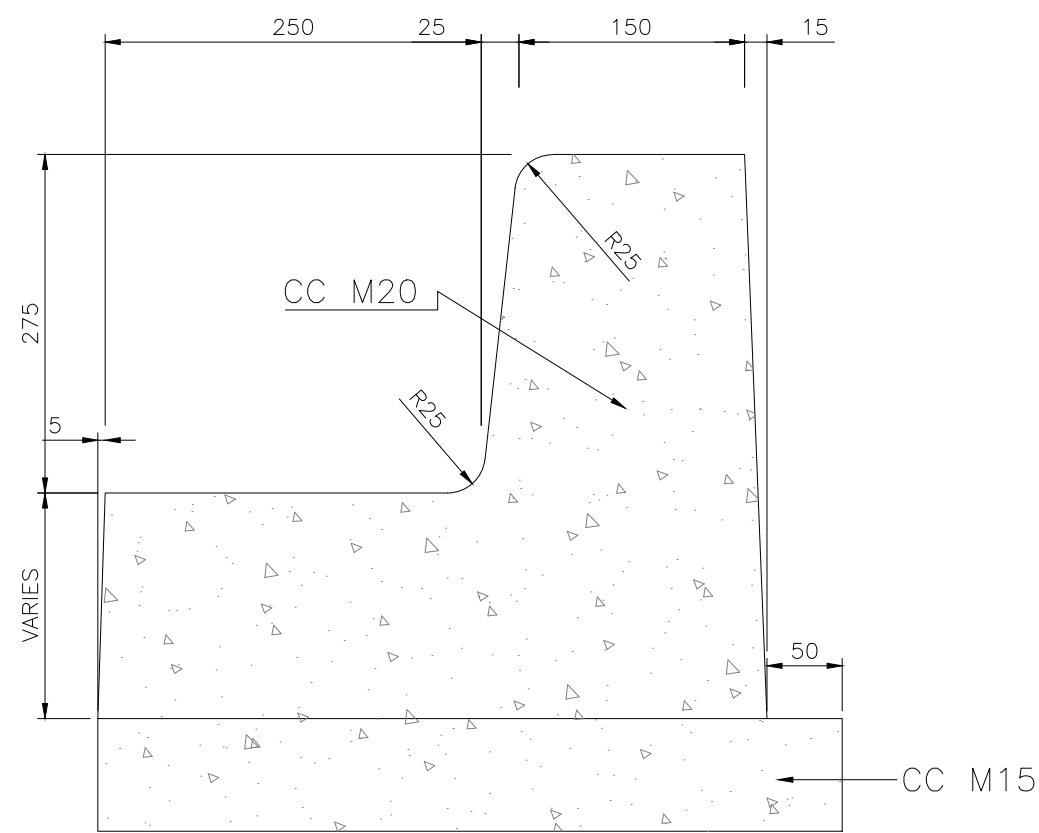
**SEPARATOR BETWEEN MAIN CARRIAGEWAY
AND SERVICE ROAD AT URBAN AREAS**



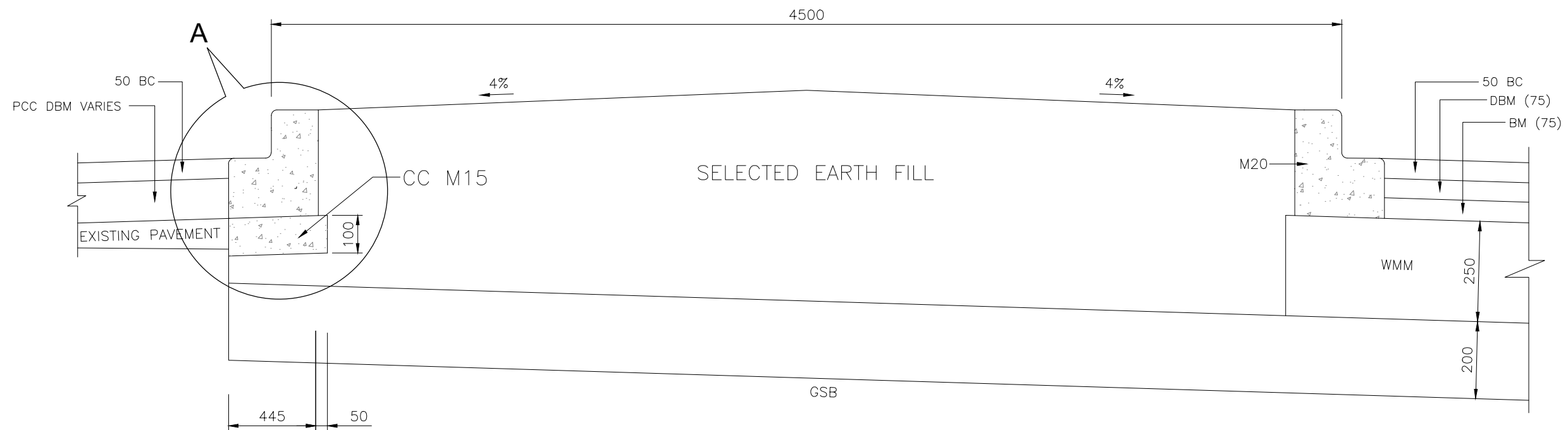
**SEMI BARRIER TYPE KERB
OF CEMENT CONCRETE FOR
DIRECTIONAL ISLAND**



**MEDIAN DETAIL IN URBAN AREA
(1.5M MEDIAN)**



DETAIL - A



MEDIAN DETAIL IN RURAL SECTION

NOTES:

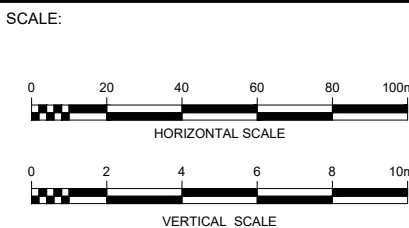
1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.

NOTES:

ALL DRAWINGS REPRESENTED ARE TYPICAL AND SHOULD BE CHECKED AND VERIFIED IN ACCORDANCE TO IRC-SP-84 AND SCHEDULE.

MKD.	DATE	DESCRIPTION	BY

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE
INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI-110044
INDIA

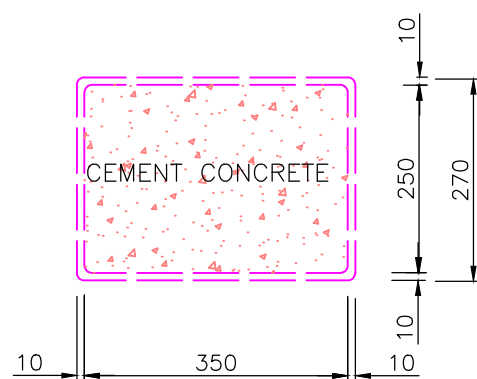
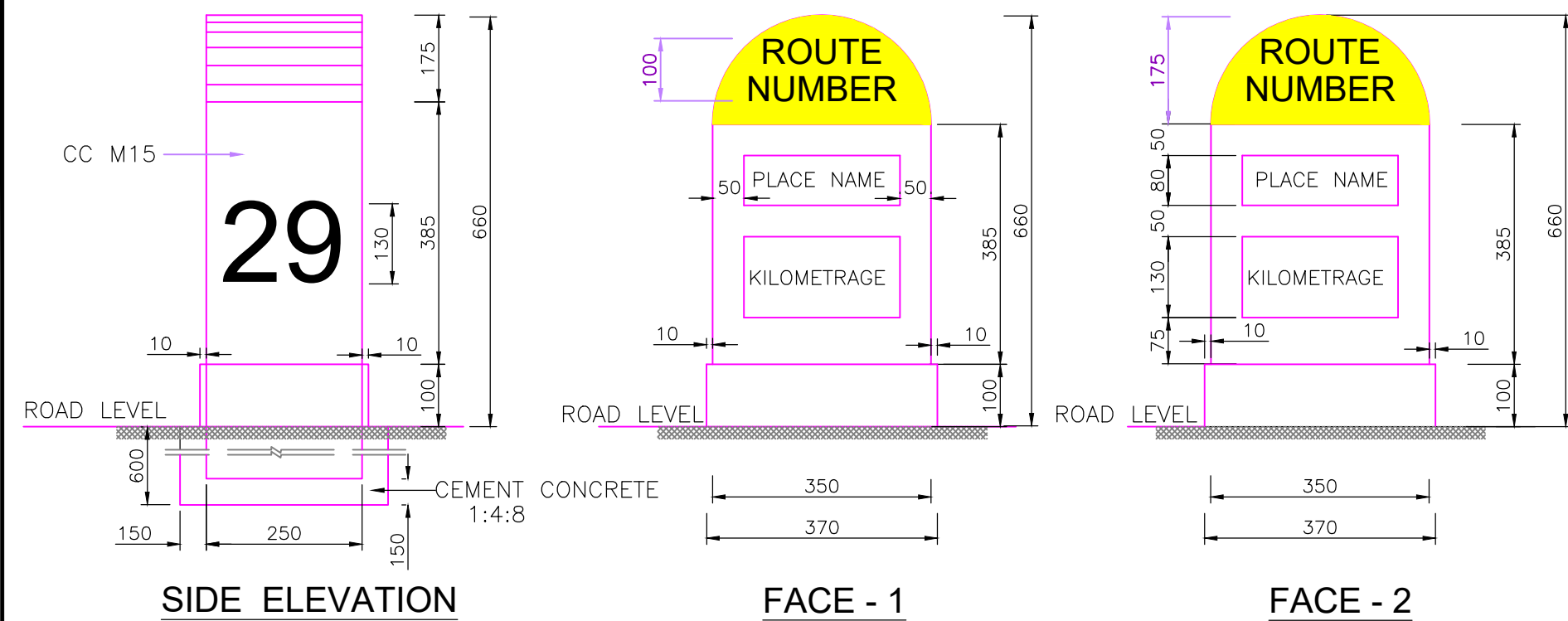


CLIENT:
 **NATIONAL HIGHWAYS AUTHORITY OF INDIA**
(Ministry of Road Transport & Highways)
Government of India

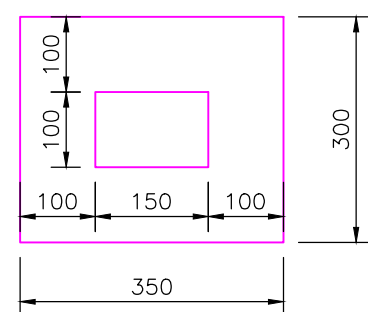
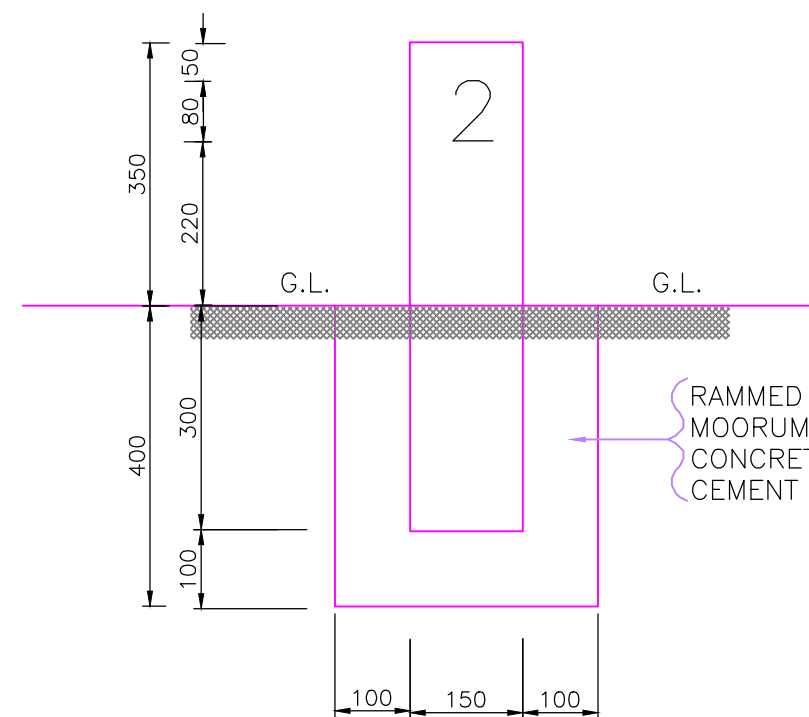
PROJECT:
"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"

DRAWING TITLE:
**TYPICAL DETAILS OF MEDIAN, KERB,
KERB CAHNNEL AND SEPARATOR**

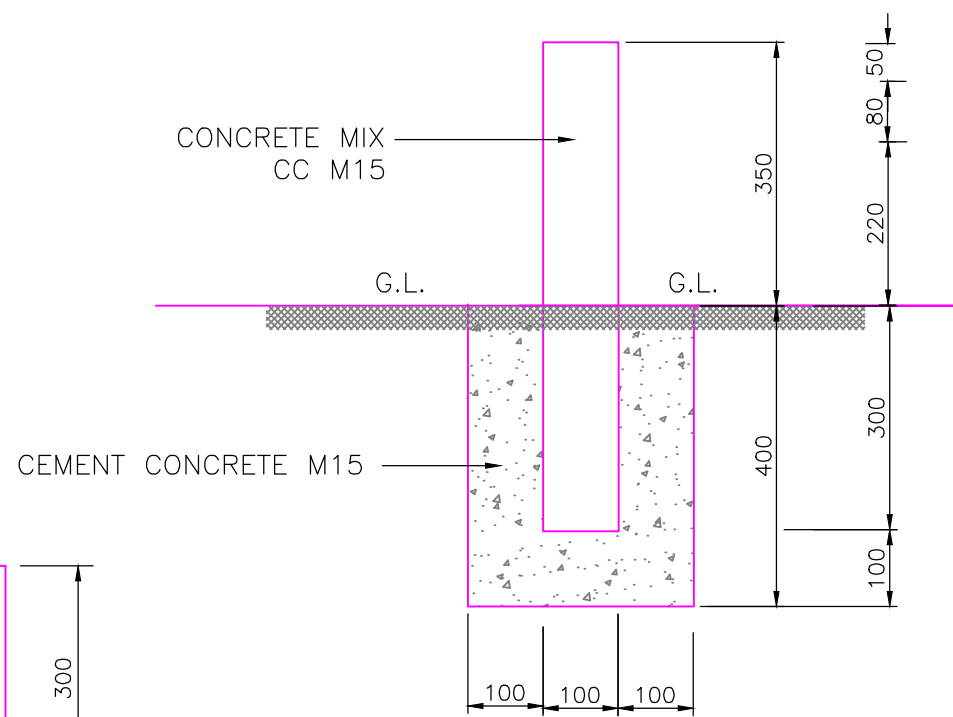
DRG. NO.	REV.
73580\LASA\HIGHWAYS\MISC\MK-01	0
DATE: JULY 2021	DRAWN : Ravindra Patwal
DESIGNED: Rakesh.M	CHECKED: Sujoy Sinha
	APPROVED: J.K.Das
	SHEET SIZE A2



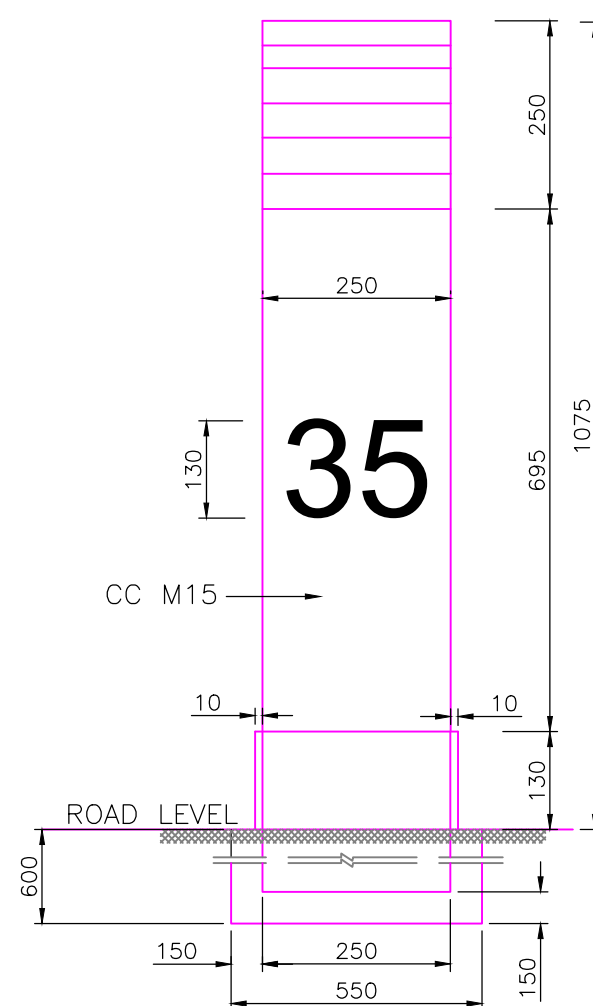
SECTIONAL PLAN
TYPICAL DESIGN FOR THE ORDINARY
KILOMETRE STONE



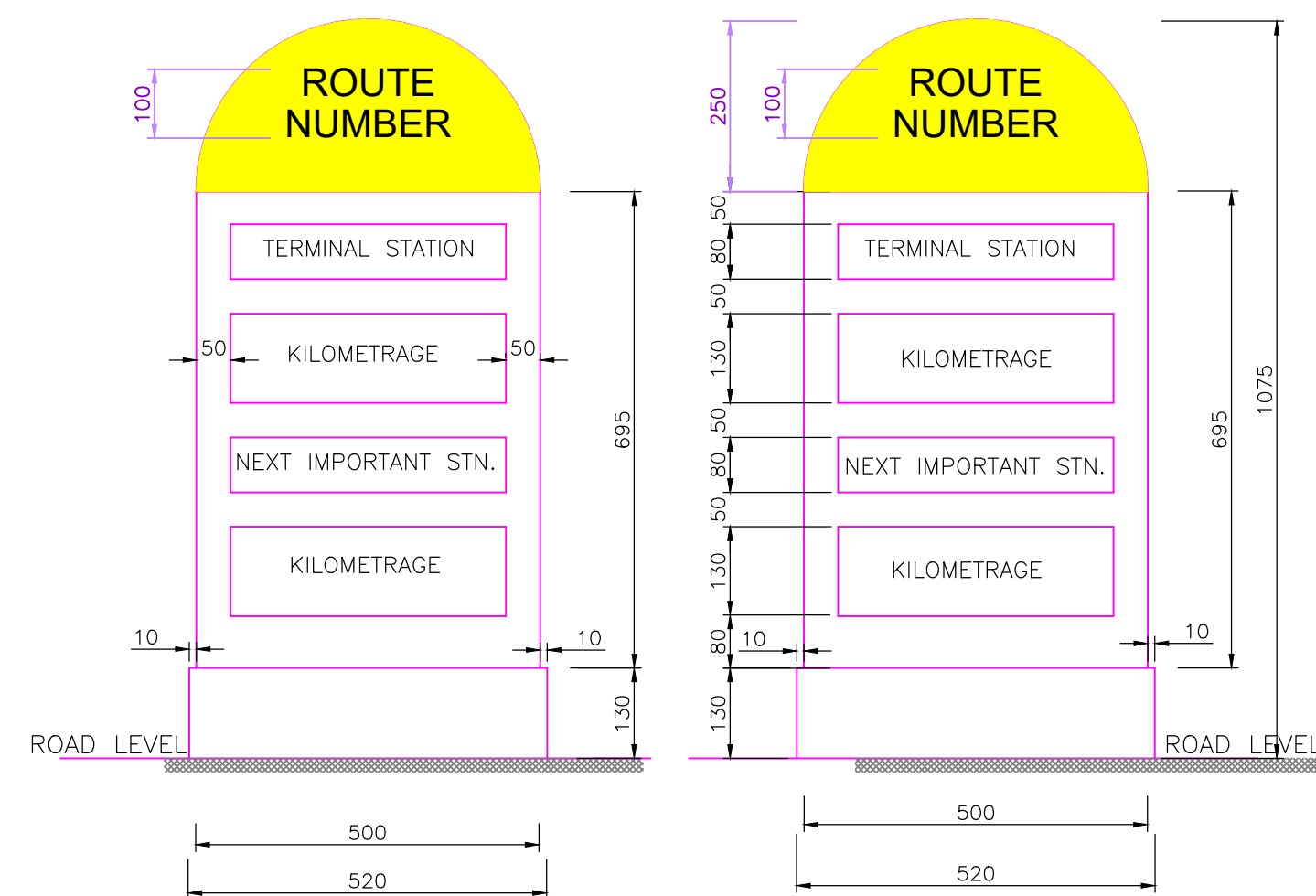
PLAN
HECTOMETER STONE



SIDE ELEVATION

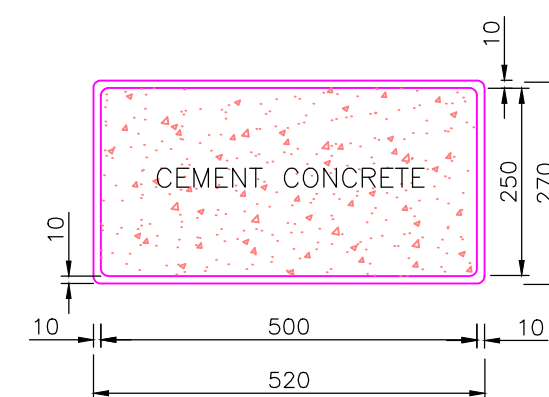


SIDE ELEVATION



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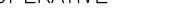
FACE - 2

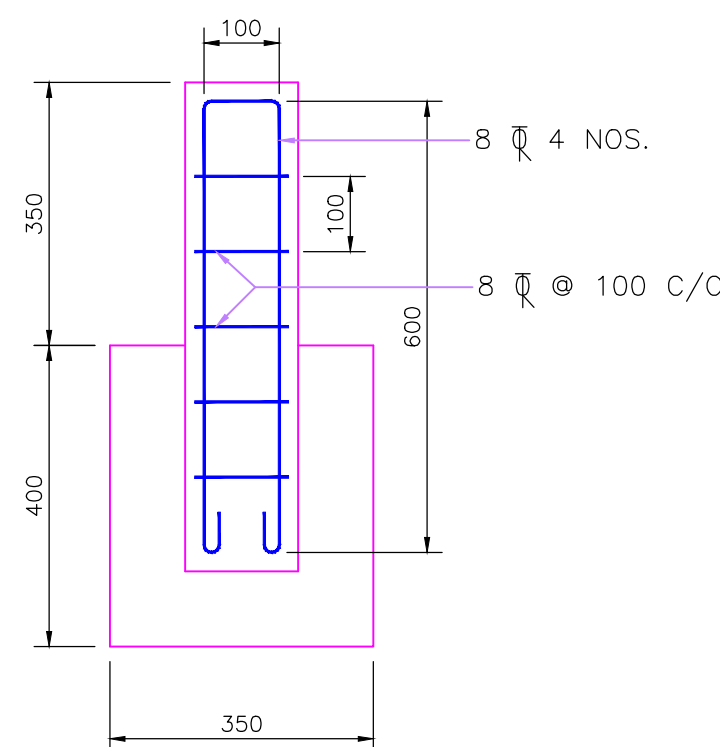


SECTIONAL PLAN
TYPICAL DESIGN FOR THE 5TH KILOMETRE STONE

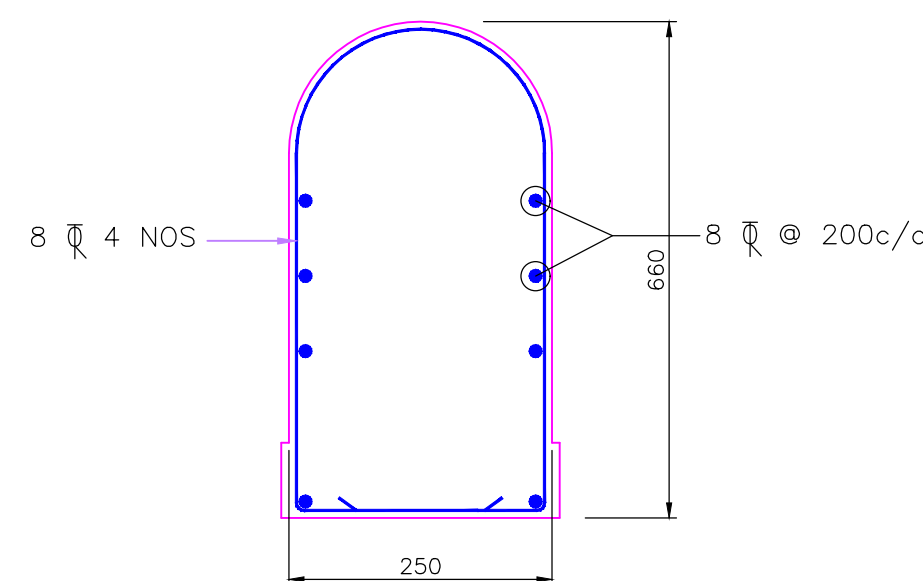
NOTES:

1. ALL THE DIMENSIONS ARE IN MILLIMETRES UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 8 - 1980 AND IRC: 26 - 1967.
3. WHEREVER CRASH BARRIER IS PRESENT, KILOMETER AND HECTOMETER STONE SHOULD BE MOUNTED ABOVE IT.

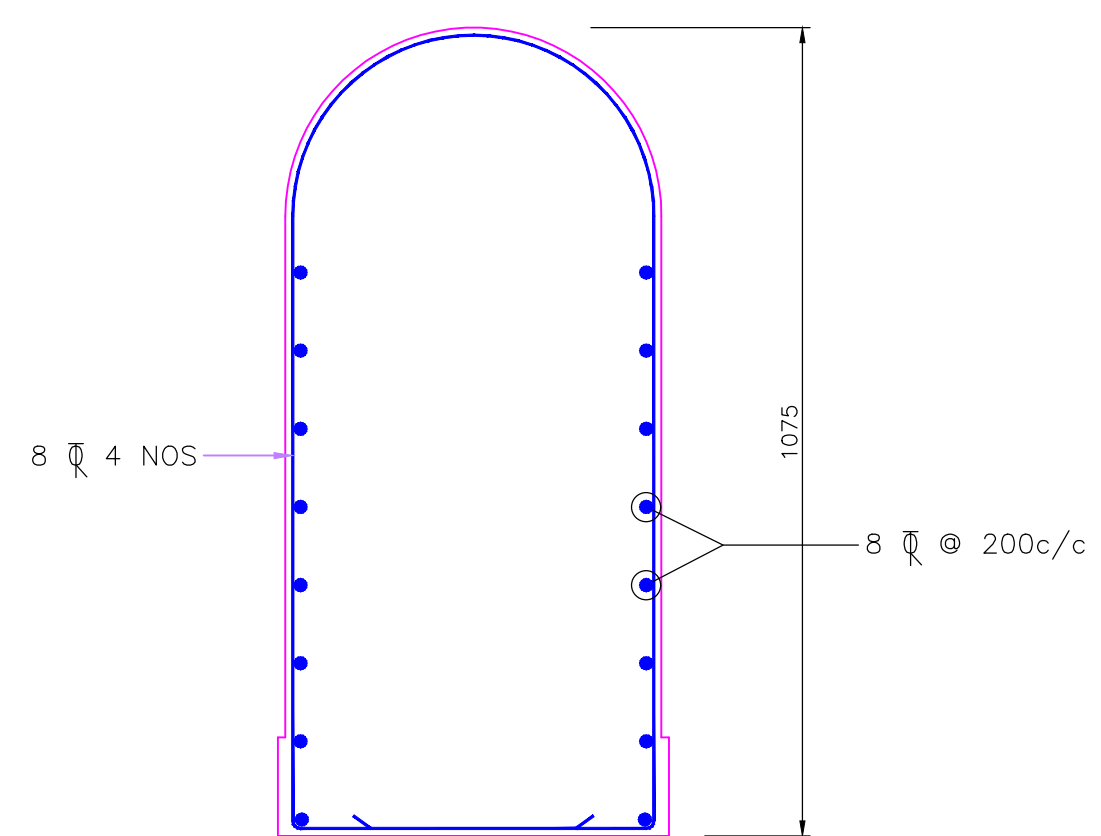
				DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA				  				SCALE:  HORIZONTAL SCALE  VERTICAL SCALE				CLIENT:  NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India				DRAWING TITLE: TYPICAL DETAILS OF KM STONE AND HECTOMETRE STONE (Sheet 1 of 2)				DRG. NO. 73580\LASA\HIGHWAYS\MISC\KM-01 0				REV.			
MKD.				DATE				DESCRIPTION				BY																			
REVISION																															
PROJECT: "FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"																															
DATE:				JULY 2021				DRAWN :				Ravindra Patwal																			
DESIGNED				Rakesh.M				CHECKED				Sujoy Sinha																			
APPROVED				J.K.Das				SHEET SIZE A2																							



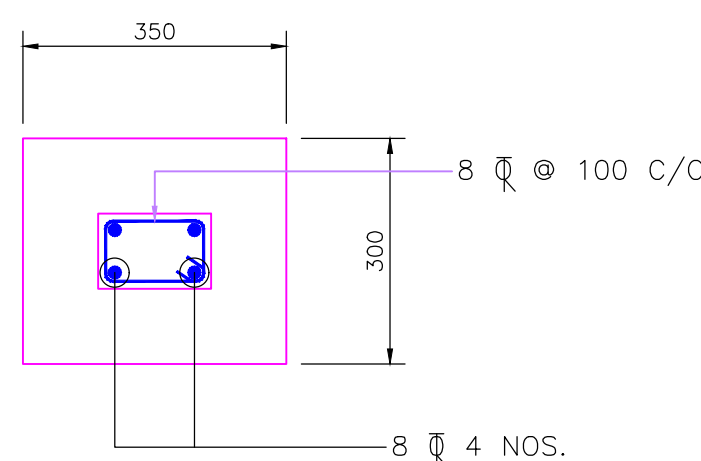
SECTIONAL ELEVATION



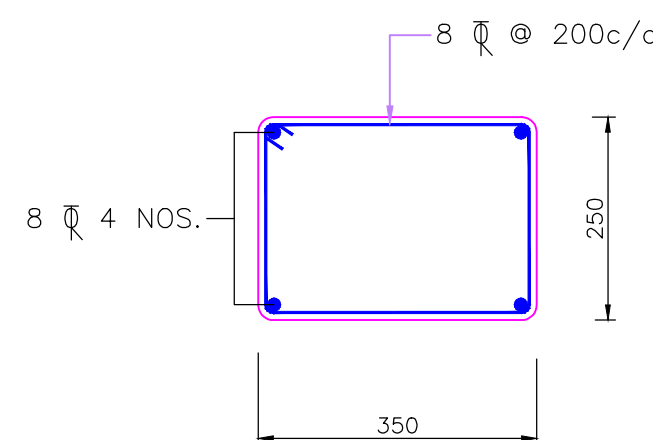
FACE - 1



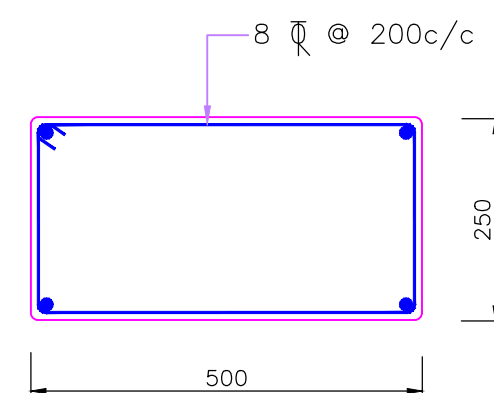
FACE - 1



SECTIONAL PLAN



SECTIONAL PLAN



SECTIONAL PLAN

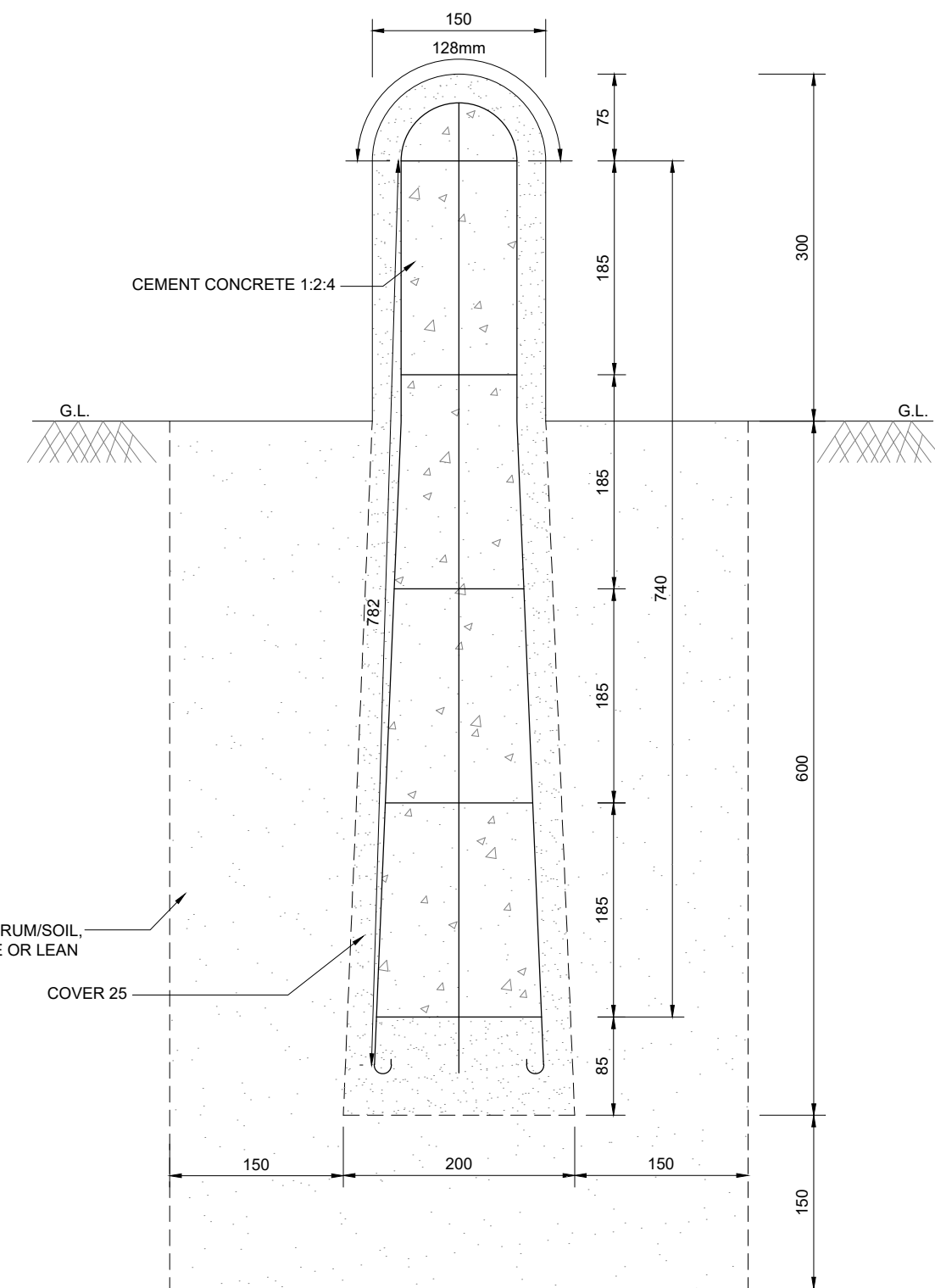
TYPICAL DESIGN FOR 200 - METRE STONE
HECTOMETER STONE

TYP. REINFORCEMENT DETAIL FOR THE ORDINARY
KILOMETRE STONE

TYP. DESIGN FOR THE 5TH KILOMETRE STONE

- NOTES:
1. ALL THE DIMENSIONS ARE IN MILLIMETRES UNLESS AND OTHERWISE SPECIFIED.
 2. CLEAR COVER 25mm.
 3. GRADE OF CONCRETE SHALL BE M-15. THE REINFORCEMENT SHALL BE fe 415.
 4. FOR DIMENSION DETAILS REFER DWG. 73340\LASA\HIGHWAY\MISC\KM-01

DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.		REV.	
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,				0 20 40 60 80 100m				NATIONAL HIGHWAYS AUTHORITY OF INDIA				TYPICAL DETAILS OF KM STONE				73580\LASA\HIGHWAYS\MISC\KM-01		0	
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE				0 2 4 6 8 10m				(Ministry of Road Transport & Highways)				(Sheet 2 of 2)				DATE: JULY 2021		DRAWN : Ravindra Patwal	
INDUSTRIAL ESTATE, MATHURA ROAD,				VERTICAL SCALE				Government of India								DESIGNED		CHECKED	
NEW DELHI-110044								PROJECT:								Rakesh.M		Sujoy Sinha	
INDIA								"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"								APPROVED		J.K.Das	
MKD. DATE DESCRIPTION BY																SHEET SIZE A2			
REVISION																			

ELEVATION

BAR BENDING SCHEDULE

BAR BENDING SCHEDULE					
SL. NO.	TYPE OF M.S. BAR	NO. OF BARS	SHAPE OF BARS	DIA IN mm	LENGTH OF BARS INCLUDING HOOKS(mm)
1.	MAIN BARS	2		6	1840
2.	TOPMOST STIRRUP	1		6	370
3.	STIRRUP (1st FROM TOP)	1		6	405
4.	STIRRUP (2nd FROM TOP)	1		6	440
5.	STIRRUP (3rd FROM TOP)	1		6	475
6.	BOTTOM MOST STIRRUP	1		6	810

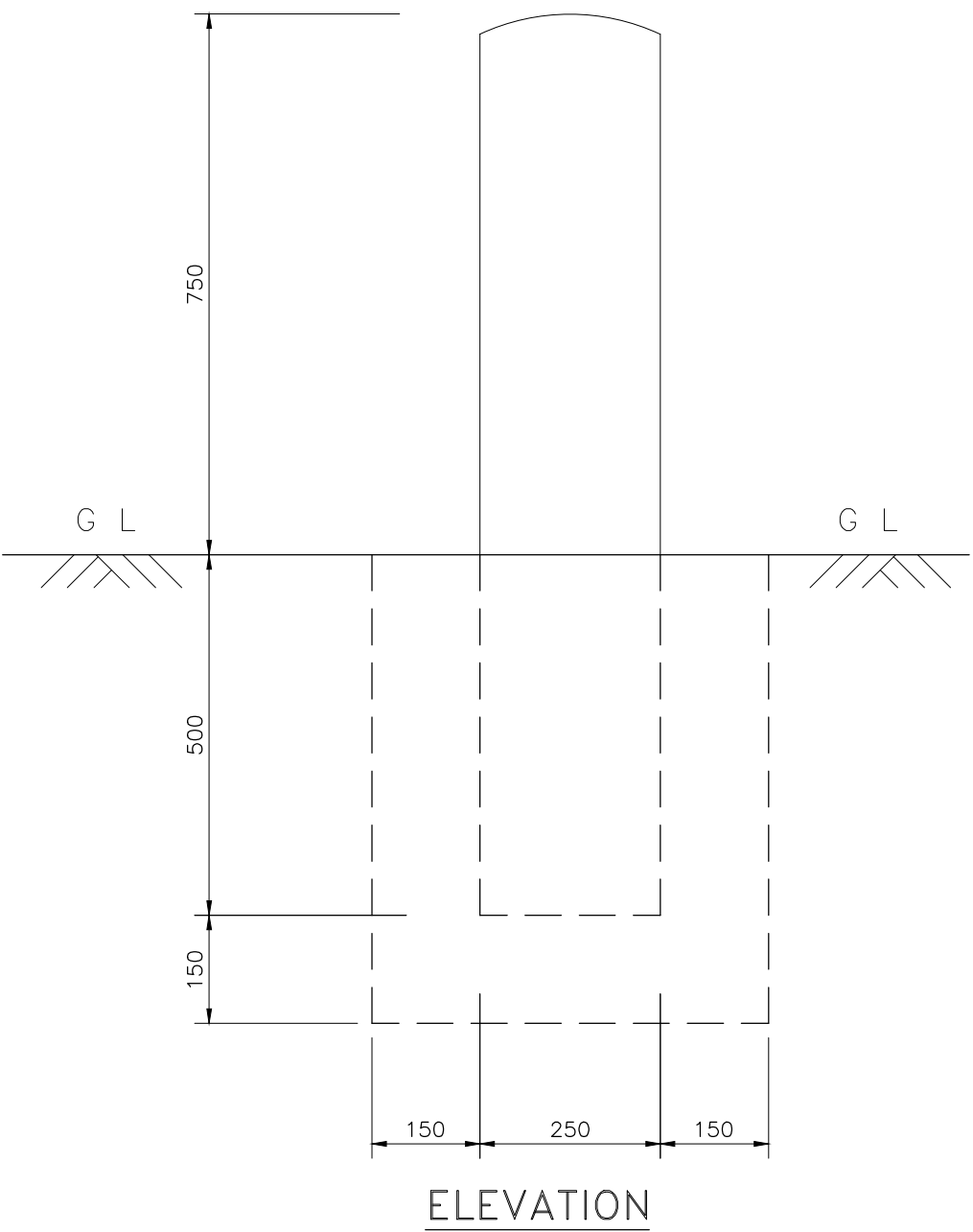
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE MENTIONED.
2. DRAWINGS ARE NOT TO BE SCALED. ONLY THE FIGURED DIMENSIONS ARE TO BE FOLLOWED.

[illegible]



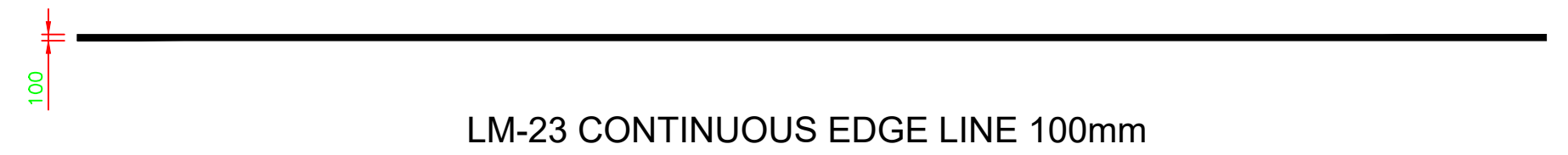
RADIUS OF CURVE (METERS)	SPACING ON CURVE, S (METERS)
300	25
400	30
500	35
600	38
700	42
800	45
900	48
1000	50

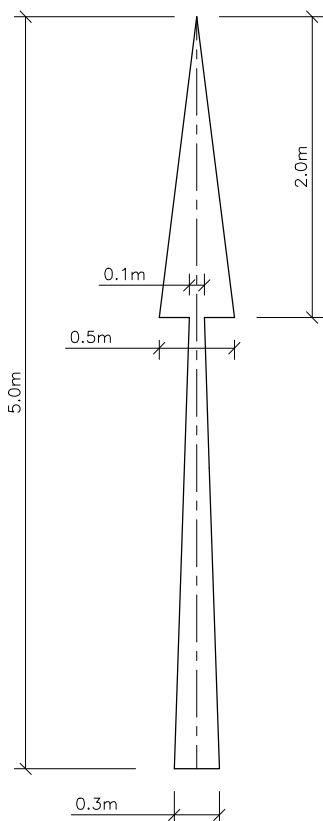
1. ADJUST DISTANCE 'X' SUITABLY SO THAT THE LAST ROADWAY DELINEATOR IS AT THE END OF THE CURVE.
2. INSTALL ALL DELINEATORS AT EDGE OF THE ROADWAY PERPENDICULAR TO THE ONCOMING TRAFFIC.
3. SEE TABLE1 FOR VALUE OF 'S' i.e. SPACING OF DELINEATORS ON THE CURVE.
4. THE SPACING OF FIRST, SECOND & THIRD DELINEATORS ON THE APPROACHES SHALL BE 1.85S, 3S & 6S RESPECTIVELY BUT NOT EXCEEDING 50m.



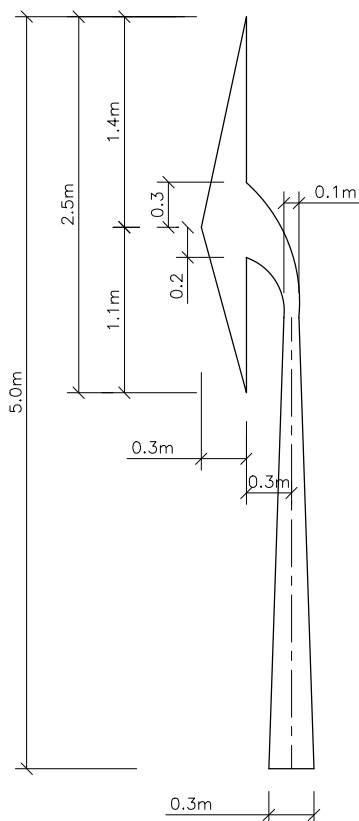
1. ALL DIMENSIONS ARE IN mm EXCEPT WHERE OTHERWISE MENTIONED
2. REINFORCEMENT – MILD STEEL BARS CONFORMING TO I.S.432/1966 GRADE 1 TESTED STEEL
3. GUARD POST TO BE PROVIDED ON EMBANKMENTS 2m TO 3m HIGH AT 5m INTERVAL ON BOTH SIDE OF THE ROADWAY

[illegible]

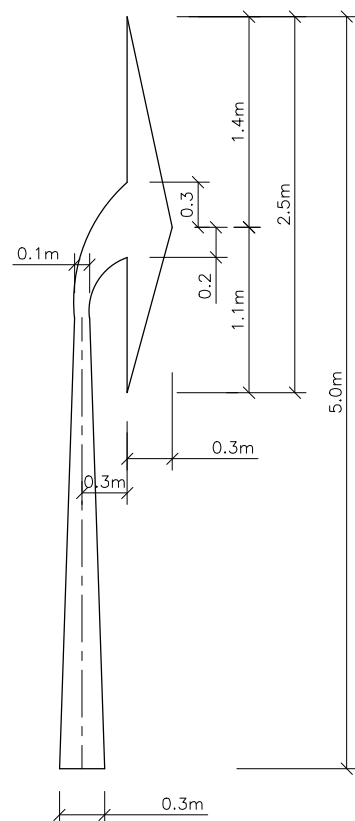
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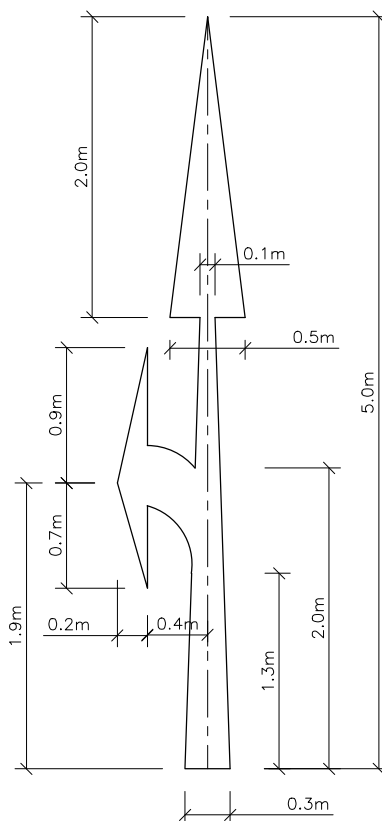
AM 08



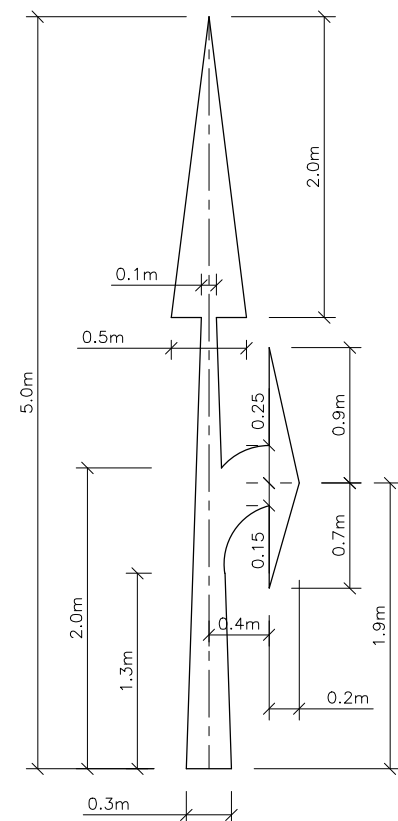
AM 09



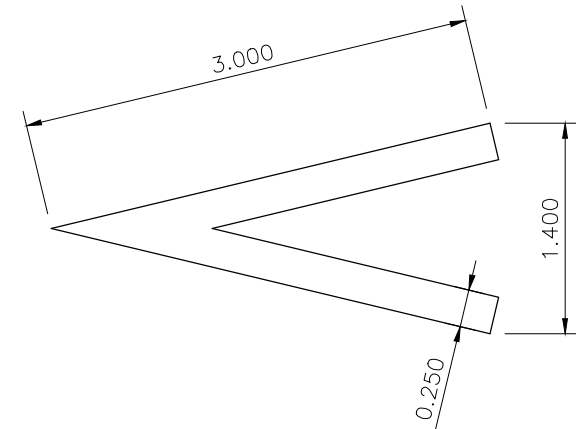
AM 10



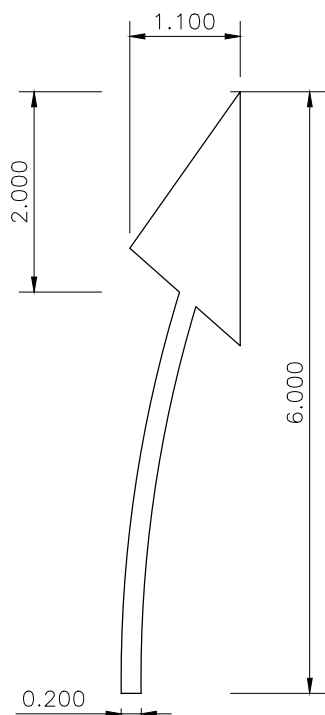
AM 11



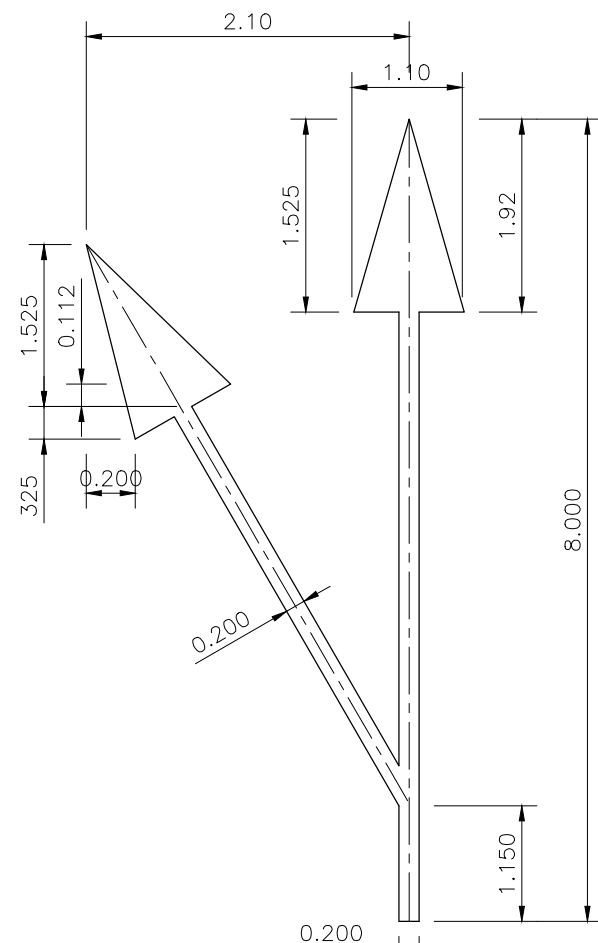
AM 12



AM 13



AM 18

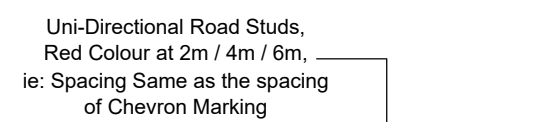


AM 20

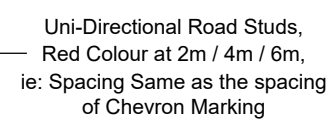
ARROW MARKING FOR ROUTE DIRECTION

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED.
 2. MARKING SHALL BE CONSTRUCTED AS PER IRC : 35-2015

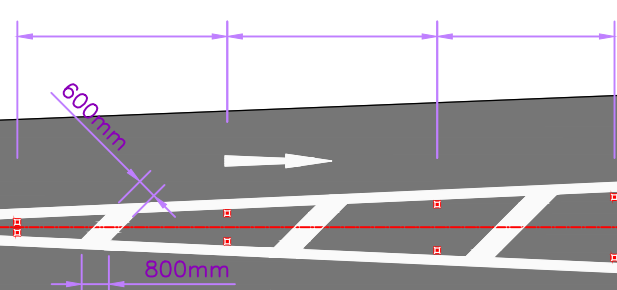
DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.		REV.	
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,				0 20 40 60 80 100m				NATIONAL HIGHWAYS AUTHORITY OF INDIA				TYPICAL DETAIL OF LANE MARKING				73580\LASA\HIGHWAYS\MISC\LM-01		0	
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				0 2 4 6 8 10m				(Ministry of Road Transport & Highways) Government of India				(Sheet 2 of 5)				DATE: JULY 2021		DRAWN : Ravindra Patwal	
INDIA				VERTICAL SCALE				PROJECT:				DESIGNED				CHECKED		APPROVED	
MKD. DATE DESCRIPTION BY				Rakesh.M				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				Sujoy Sinha				J.K.Das		SHEET SIZE A2	
REVISION																			



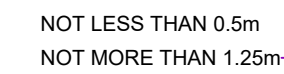
CHEVRON MARKING (DIVERGING)



CHEVRON MARKING (CONVERGING)
HM-06

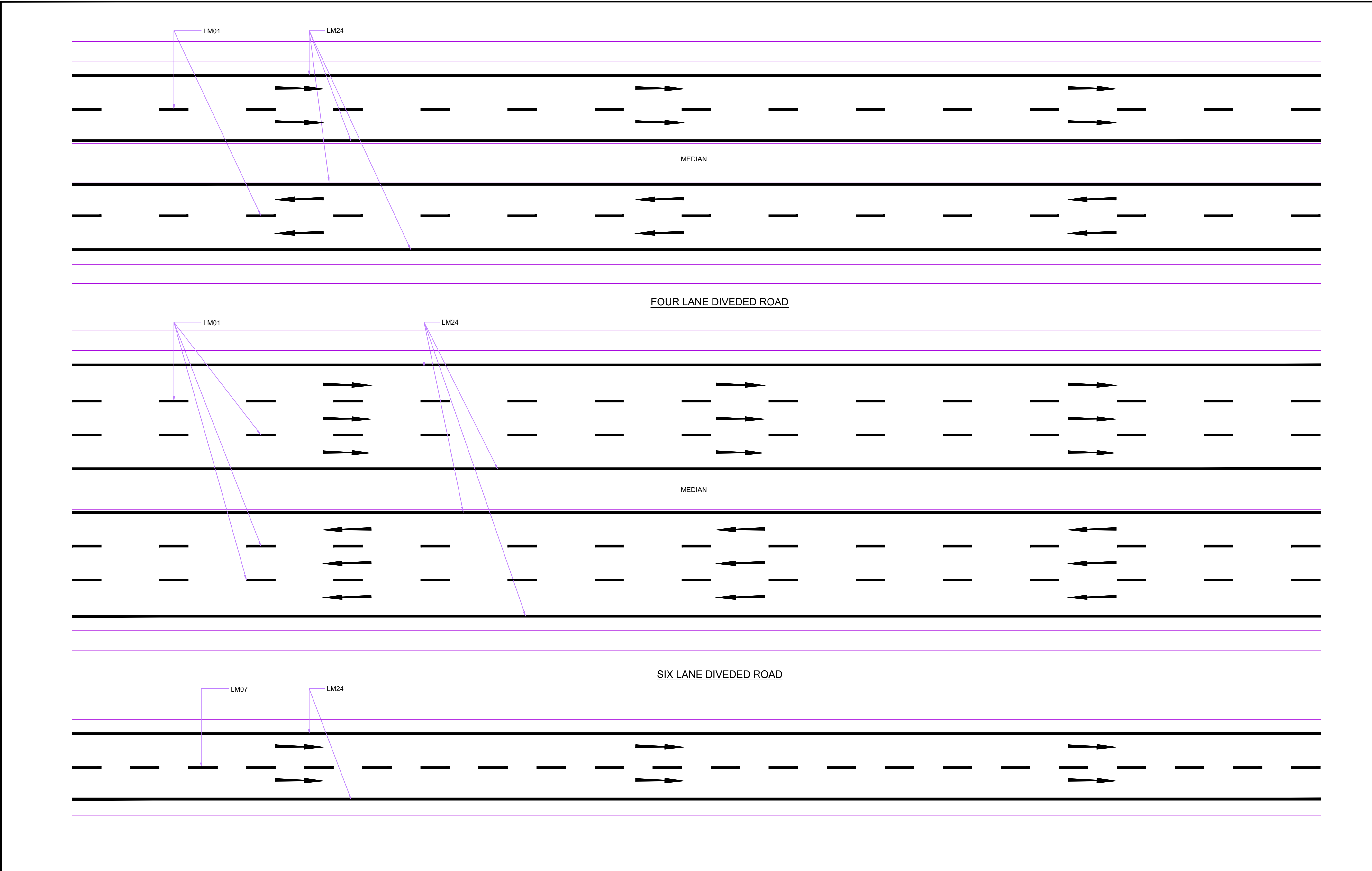


DIAGONAL MARKING
HM-09

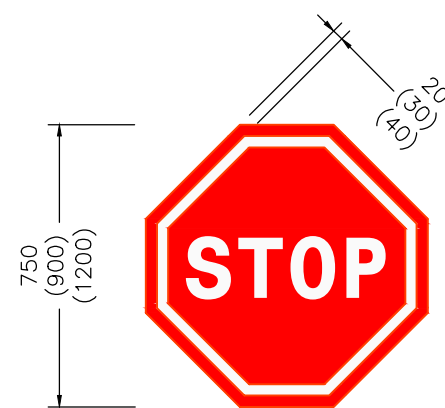


BM-01 PEDESTRIAN CROSSING MARKING

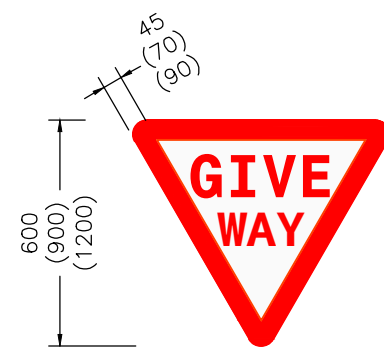
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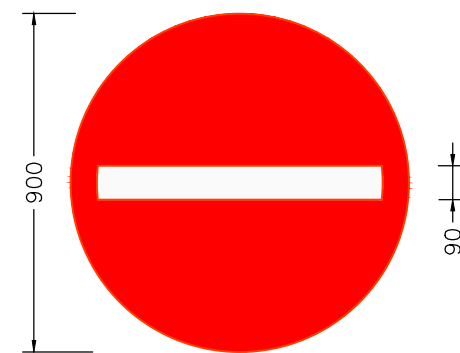
				DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.				REV.	
				LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India				TYPICAL DETAIL OF LANE MARKING (Sheet 4 of 5)				73580\LASA\HIGHWAYS\MISC\LM-01				0					
				INDIA				  				PROJECT:								DATE: JULY 2021				DRAWN : Ravindra Patw	
												"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"								DESIGNED Rakesh.M		CHECKED Sujoy Sinha		APPROVED J.K.Das	
																								SHEET SIZE A	



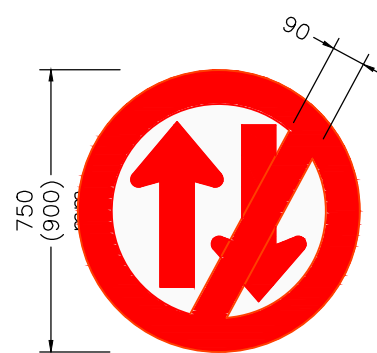
STOP
FIG 14.01



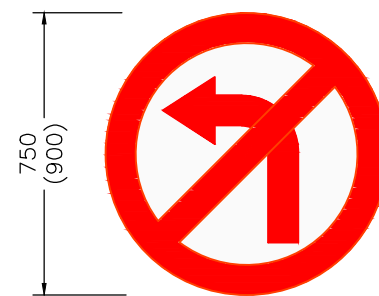
GIVE WAY
FIG 14.02



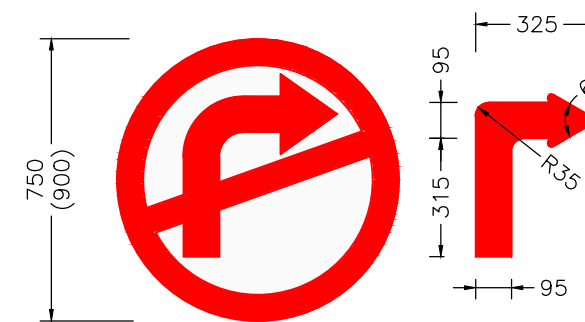
NO ENTRY
FIG 14.19



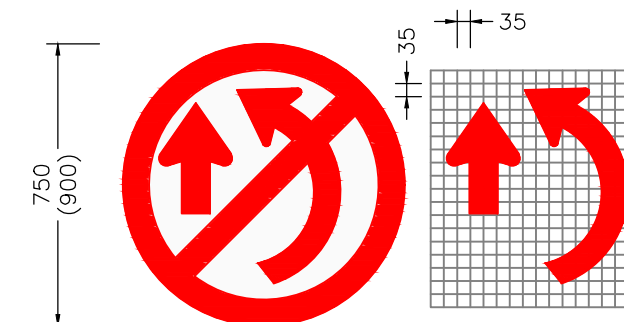
ONE WAY SIGN
FIG 14.20



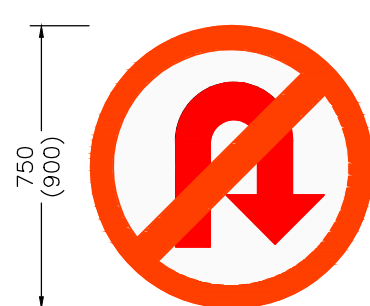
LEFT TURN PROHIBITED
FIG 14.21



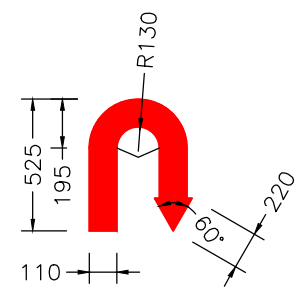
RIGHT TURN PROHIBITED
FIG 14.22



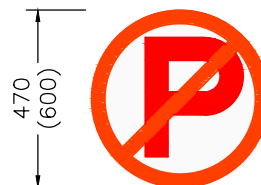
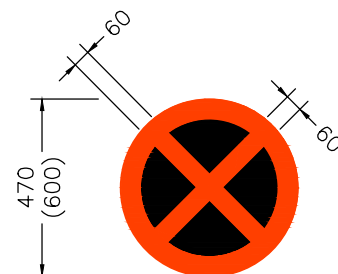
OVER TAKING PROHIBITED
FIG 14.23



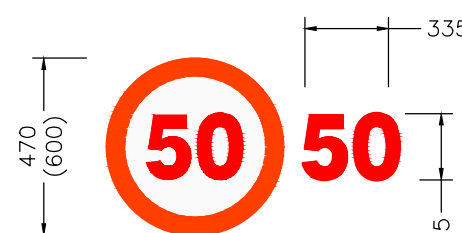
U-TURN PROHIBITED
FIG 14.24



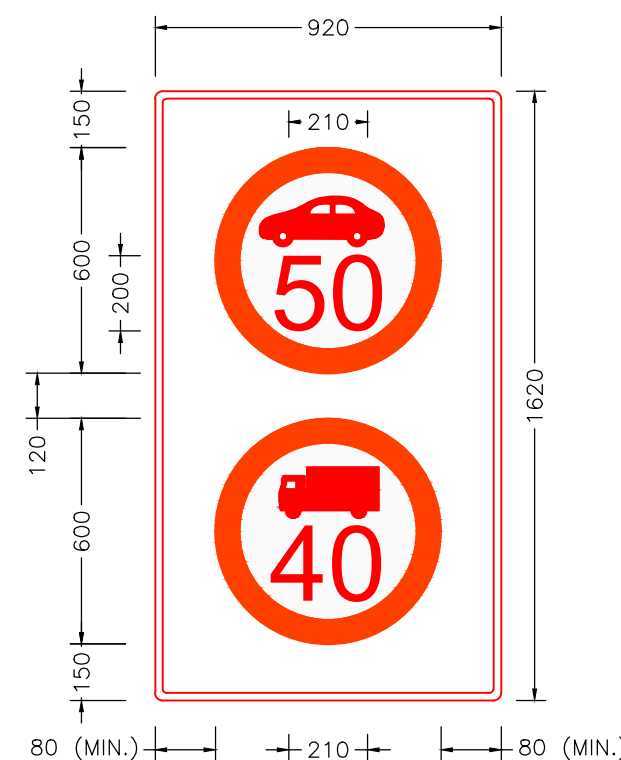
NO STOPPING
NO STANDING
FIG 14.28



NO PARKING
FIG 14.29



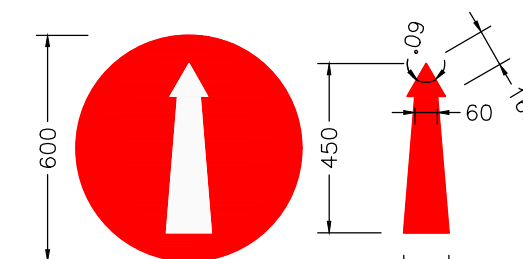
MAXIMUM SPEED LIMIT
FIG 14.37



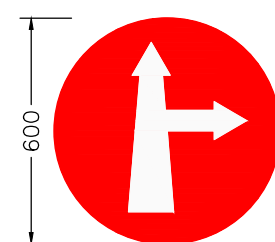
MAXIMUM SPEED LIMIT
FIG 14.38



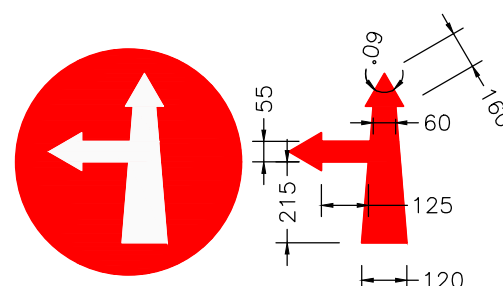
RESTRICTION ENDS
FIG 14.40



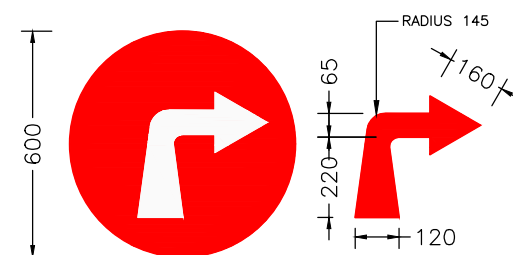
COMPULSORY AHED
FIG 14.41



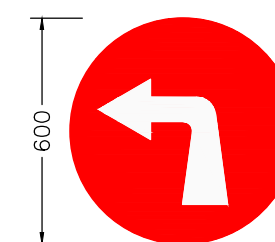
COMPULSORY AHEAD
OR TURN RIGHT
FIG 14.42



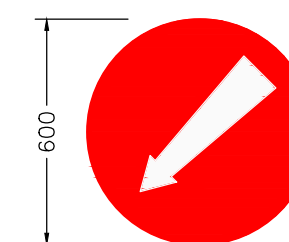
COMPULSORY AHEAD
OR TURN LEFT
FIG 14.43



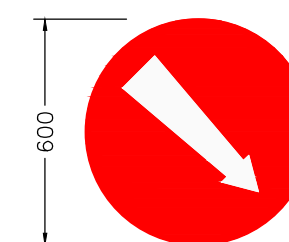
COMPULSORY TURN RIGHT
FIG 14.46



COMPULSORY TURN LEFT
FIG 14.47



COMPULSORY
KEEP LEFT
FIG 14.48

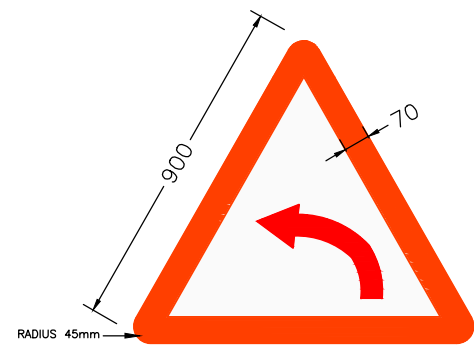


COMPULSORY
KEEP RIGHT
FIG 14.49

NOTES:

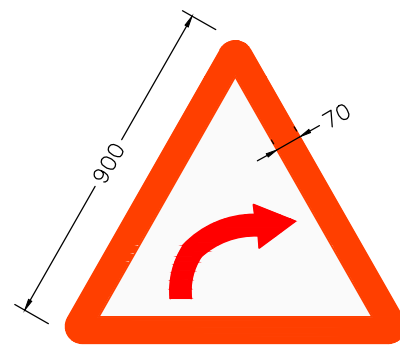
1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 67-2012.

DESIGN CONSULTANT:				CLIENT:				DRAWING TITLE:				DRG. NO.		REV.	
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,				NATIONAL HIGHWAYS AUTHORITY OF INDIA				TYPICAL DETAIL OF ROAD SIGNS				73580\LASA\HIGHWAYS\MISC\RS-01		0	
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				(Ministry of Road Transport & Highways) Government of India				(Sheet 1 of 5)				DATE: JULY 2021		DRAWN : Ravindra Patwal	
INDIA				PROJECT:				DESIGNED Rakesh.M				CHECKED Sujoy Sinha		APPROVED J.K.Das	
REVISION				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				SHEET SIZE A2							



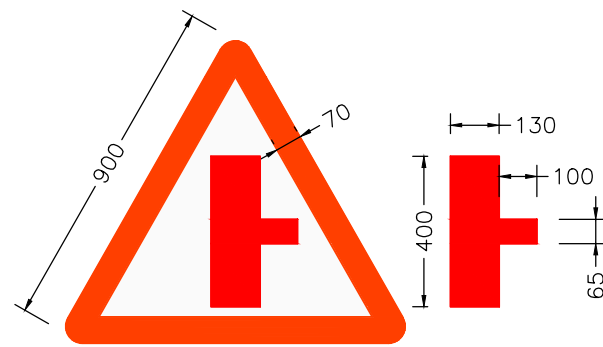
LEFT HAND CURVE

FIG 15.01



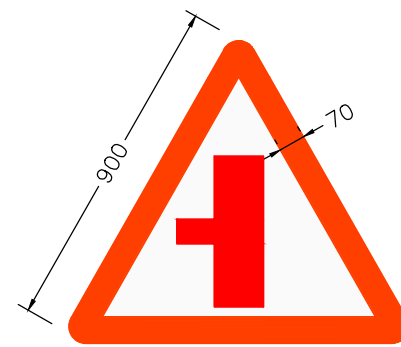
RIGHT HAND CURVE

FIG 15.02



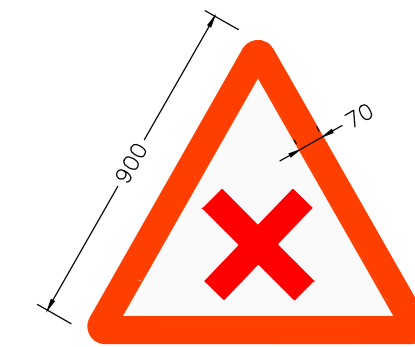
SIDE ROAD RIGHT

FIG 15.09



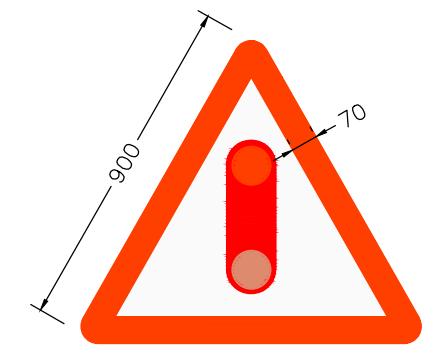
SIDE ROAD LEFT

FIG 15.10



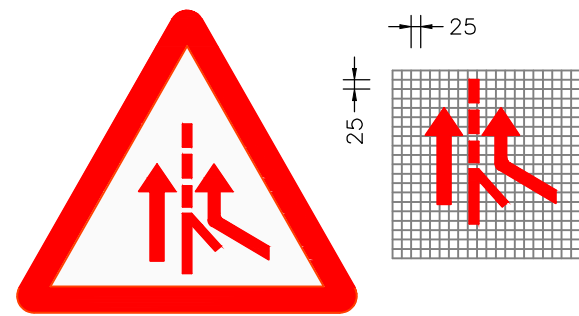
CROSS ROAD

FIG 15.14



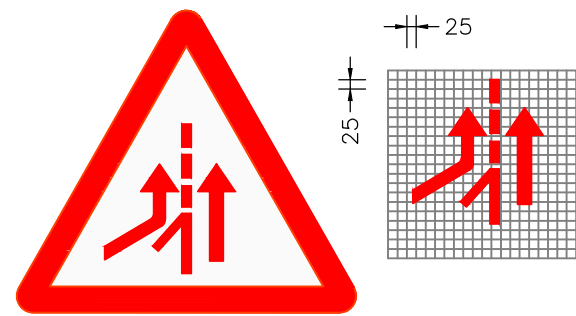
TRAFFIC SIGNALS

FIG 15.16



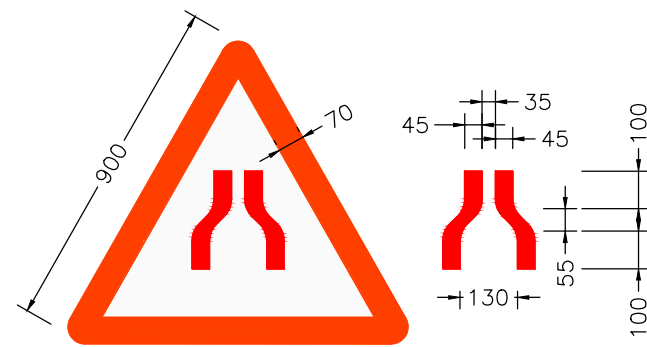
MERGING TRAFFIC AHEAD
(FROM RIGHT)

FIG 15.22



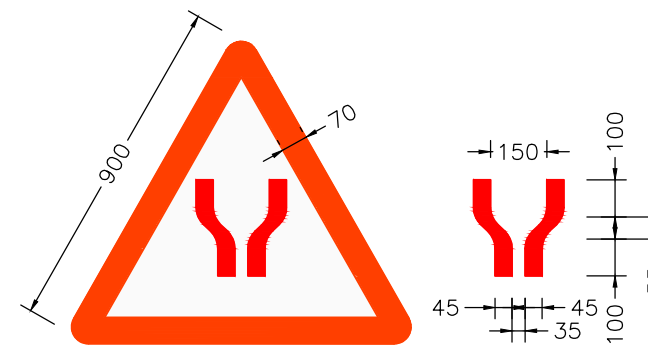
MERGING TRAFFIC AHEAD
(FROM LEFT)

FIG 15.22



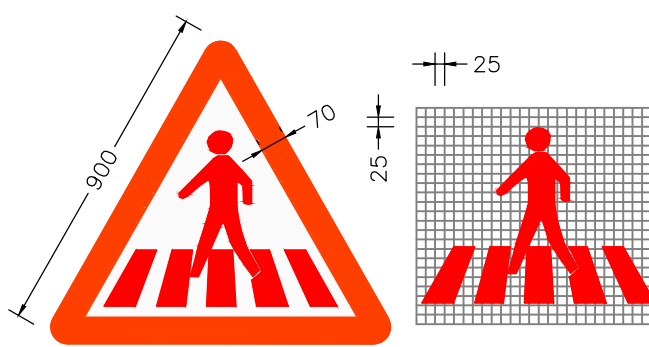
NARROW ROAD AHEAD

FIG 15.23



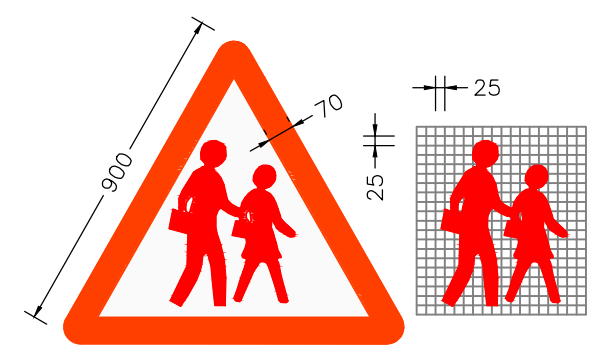
ROAD WIDENS

FIG 15.24



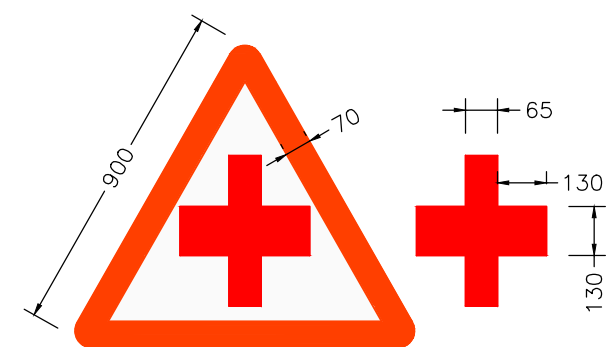
PEDESTRIAN CROSSING

FIG 15.33



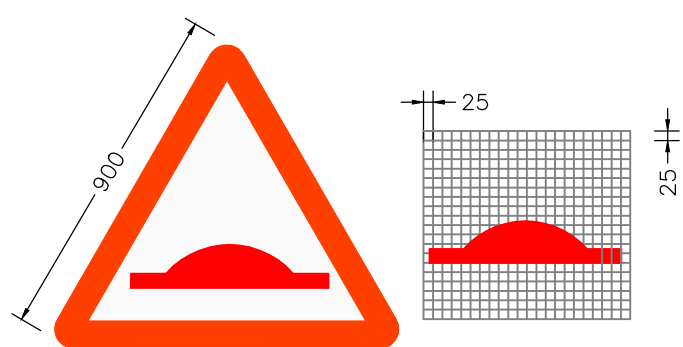
SCHOOL AHEAD

FIG 15.34



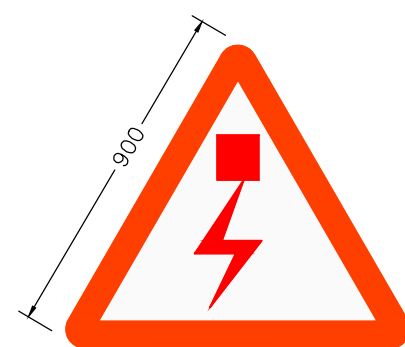
MAJOR ROAD AHEAD

FIG 15.19



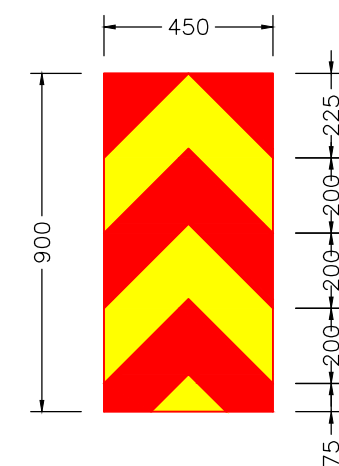
SPEED BREAKER

FIG 15.49



OVERHEAD CABLES

FIG 15.57



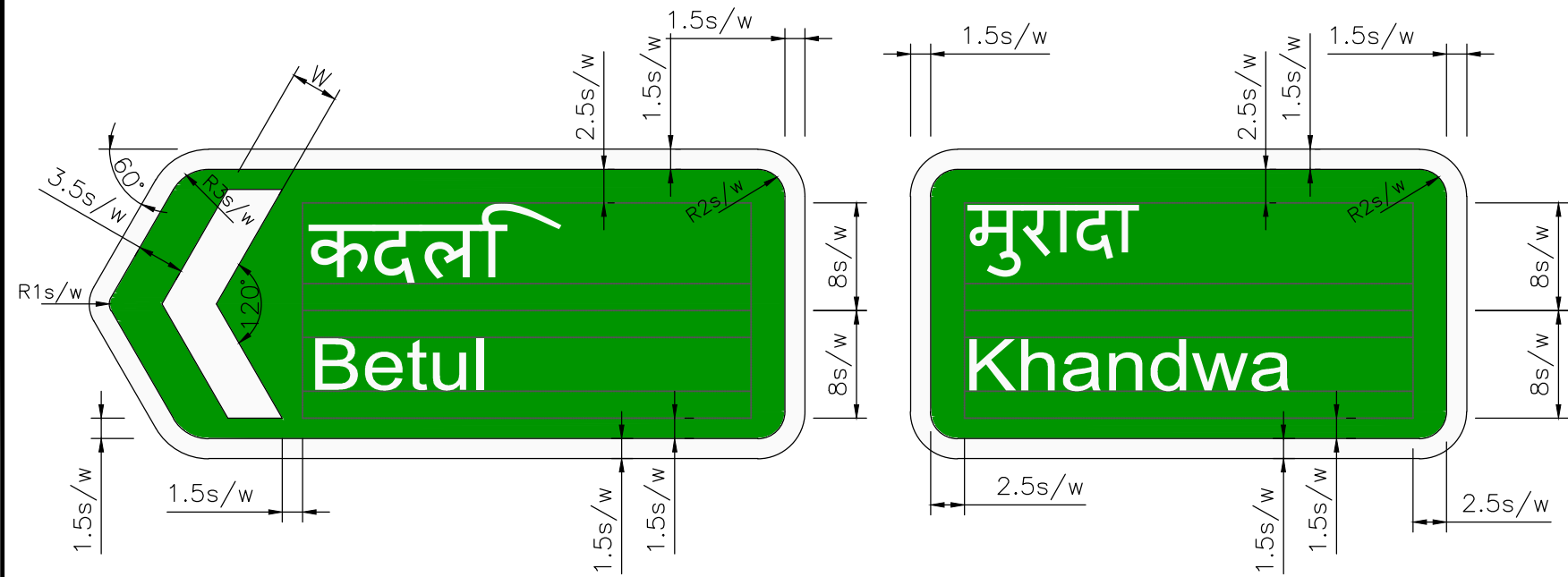
TWO WAY HAZARD MARKER

FIG 15.78

NOTES:

1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 67-2012.

DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.		REV.	
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,				0 20 40 60 80 100m				NATIONAL HIGHWAYS AUTHORITY OF INDIA				TYPICAL DETAIL OF ROAD SIGNS				73580\LASA\HIGHWAYS\MISC\RS-01		0	
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				0 2 4 6 8 10m				(Ministry of Road Transport & Highways) Government of India				(Sheet 2 of 5)				DATE: JULY 2021		DRAWN : Ravindra Patwal	
INDIA				VERTICAL SCALE				PROJECT:				DESIGNED Rakesh.M				CHECKED Sujoy Sinha		APPROVED J.K.Das	
REVISION								"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"										SHEET SIZE A2	



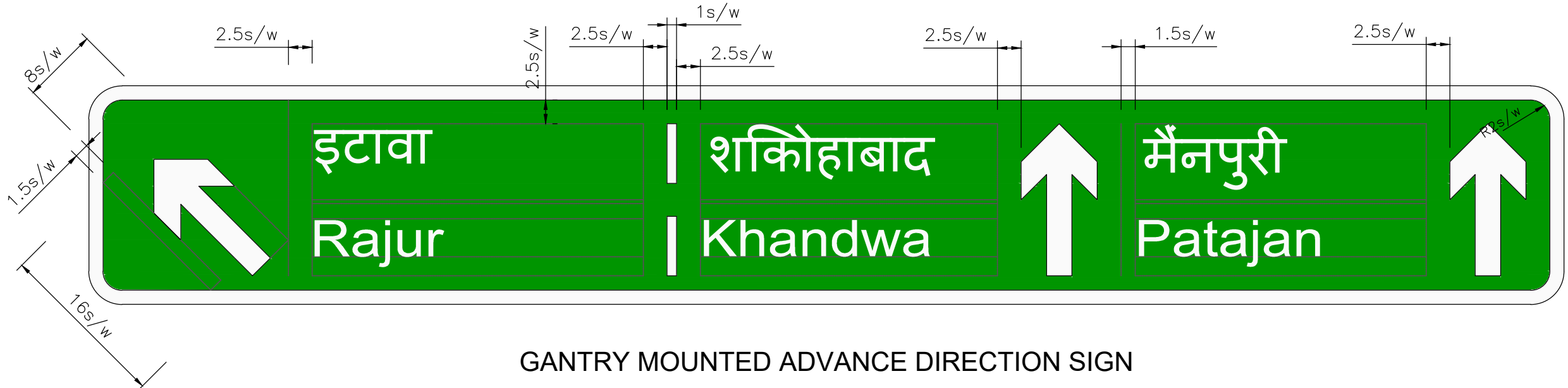
FLAG TYPE DIRECTION SIGN

PLACE IDENTIFICATION SIGN

Width of Chevron (W)
1 Line of Text=3.5s/w
2 Line of Text=4s/w
3 Line of Text=4.5s/w
4 Line of Text=5s/w

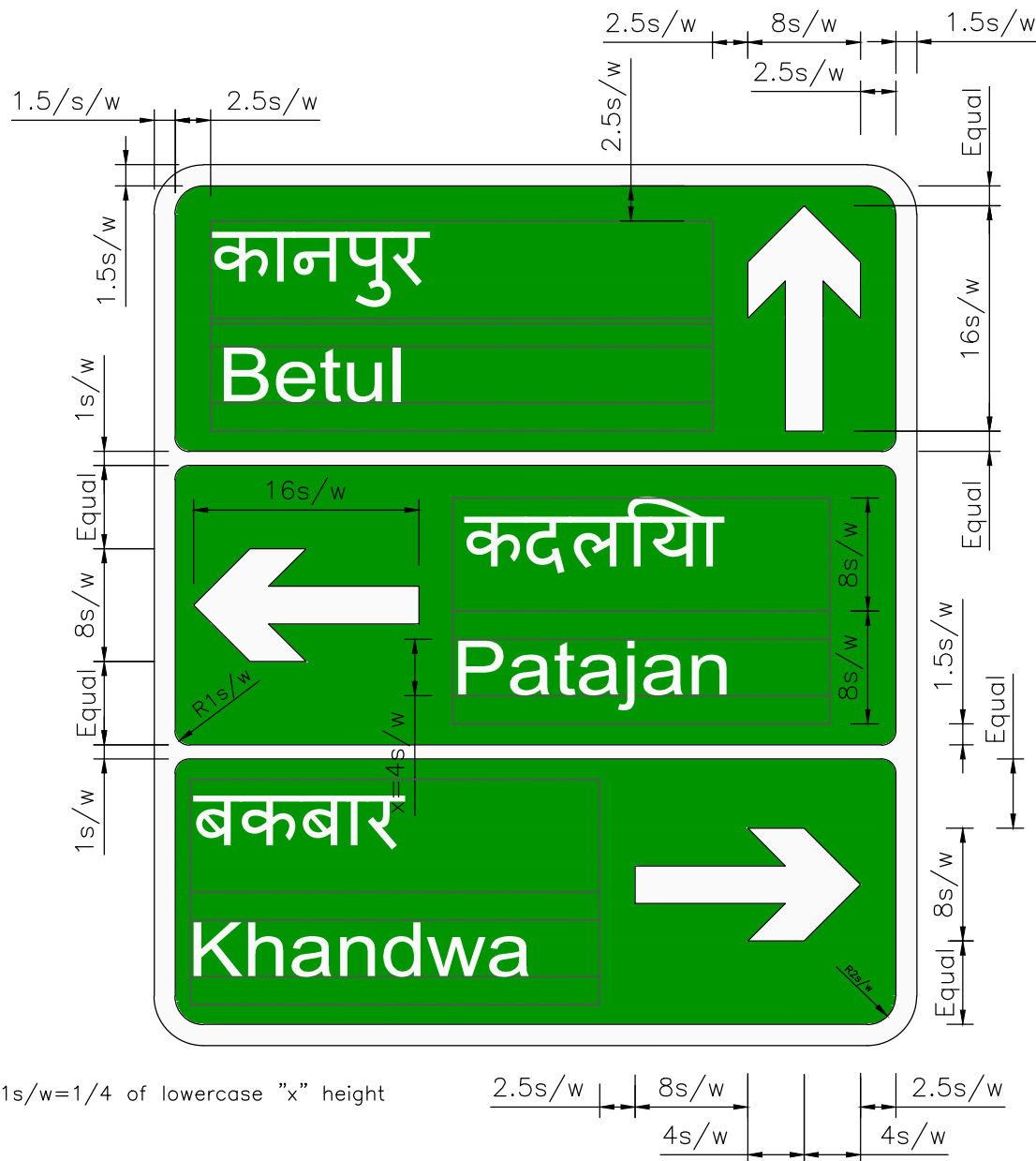
FIG 16.04

FIG 16.06



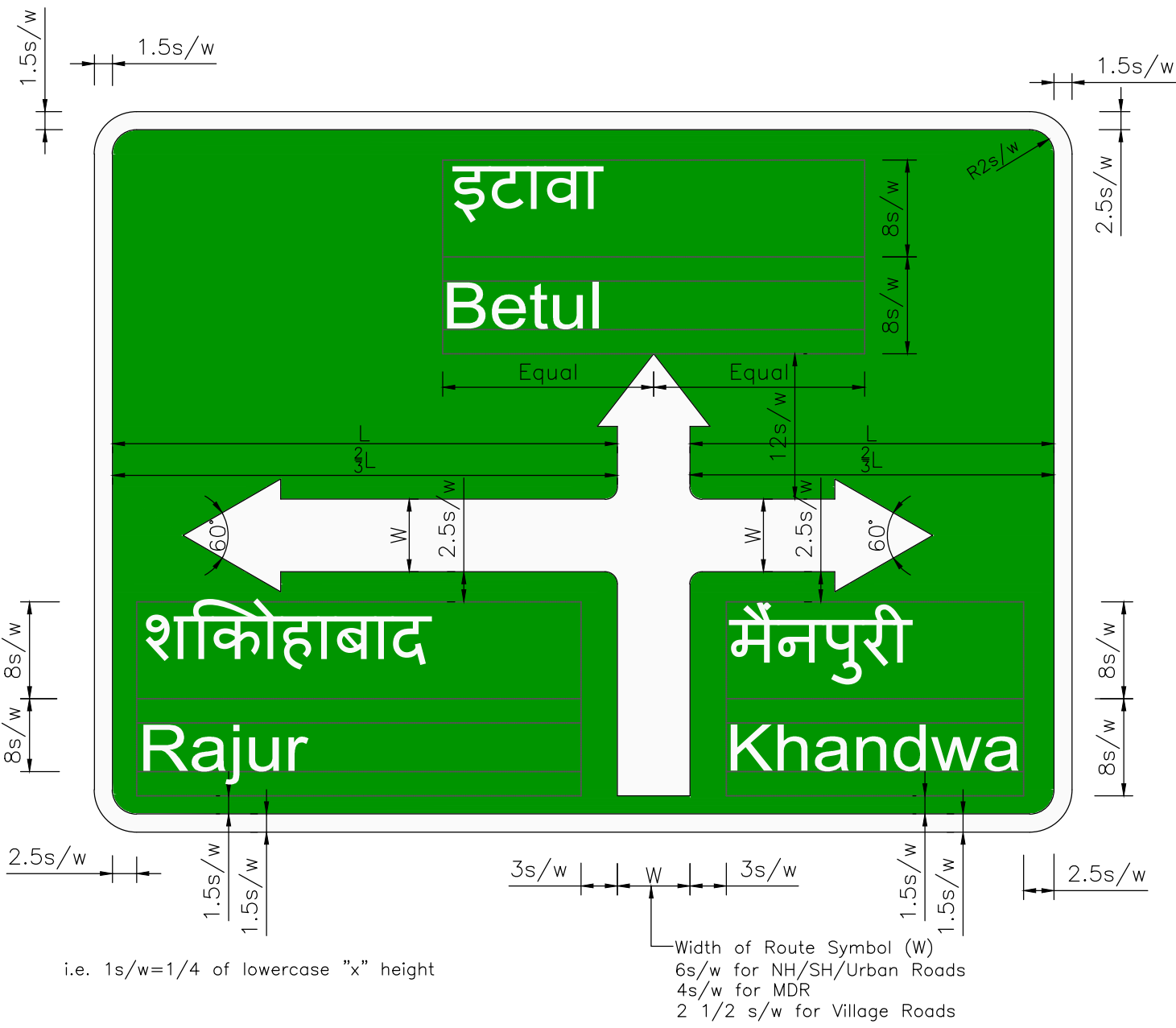
GANTRY MOUNTED ADVANCE DIRECTION SIGN
AHEAD OF A GRADE SEPARATED JUNCTION

FIG 16.10



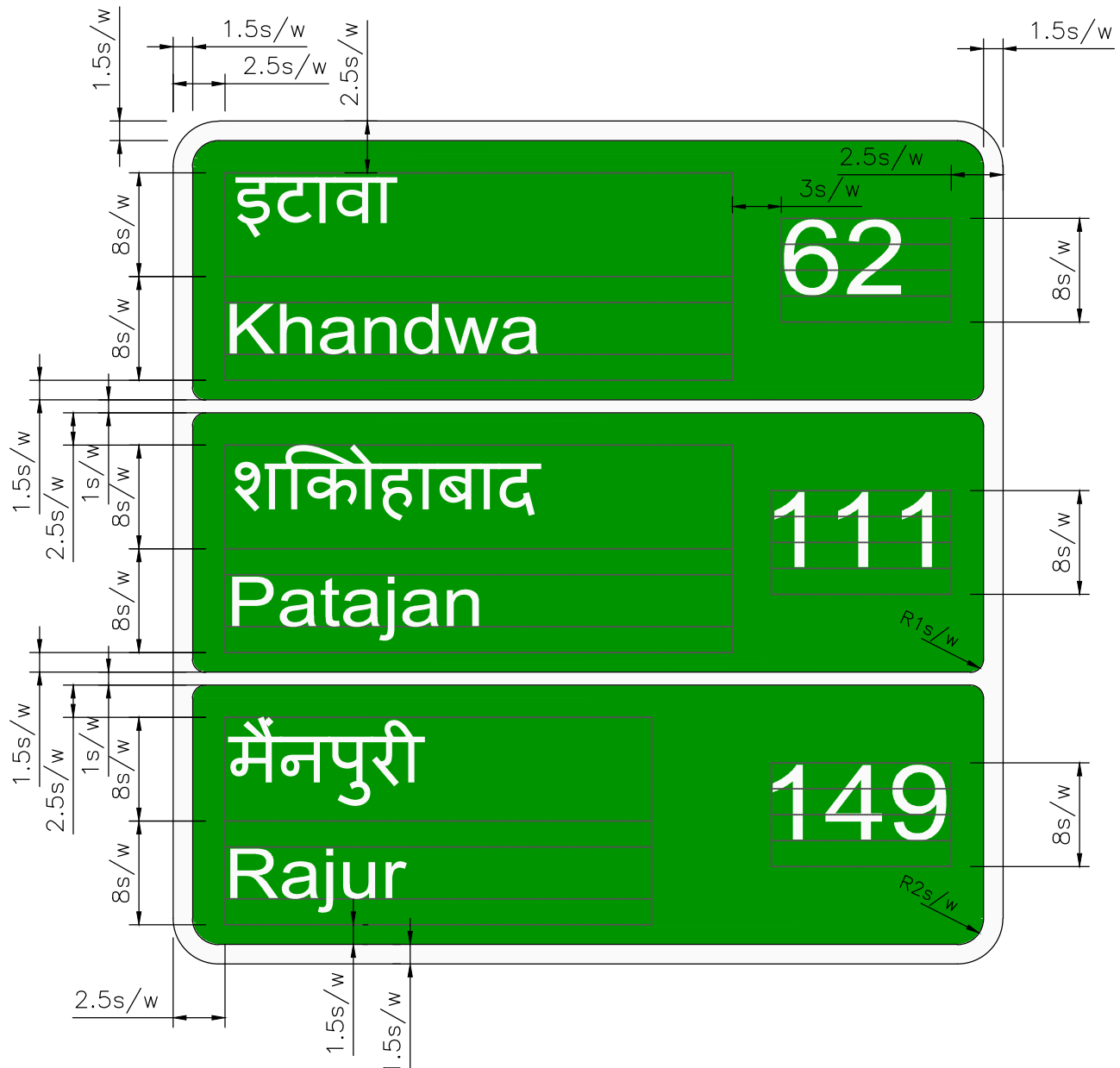
STACK TYPE ADVANCE DIRECTION
(SHOULDER MOUNTED)

FIG 16.01



MAP TYPE ADVANCE DIRECTION
(SHOULDER MOUNTED)

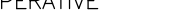
FIG 16.02

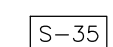
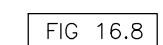
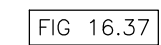
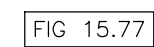
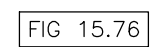


RE ASSURANCE SIGN

FIG 16.05

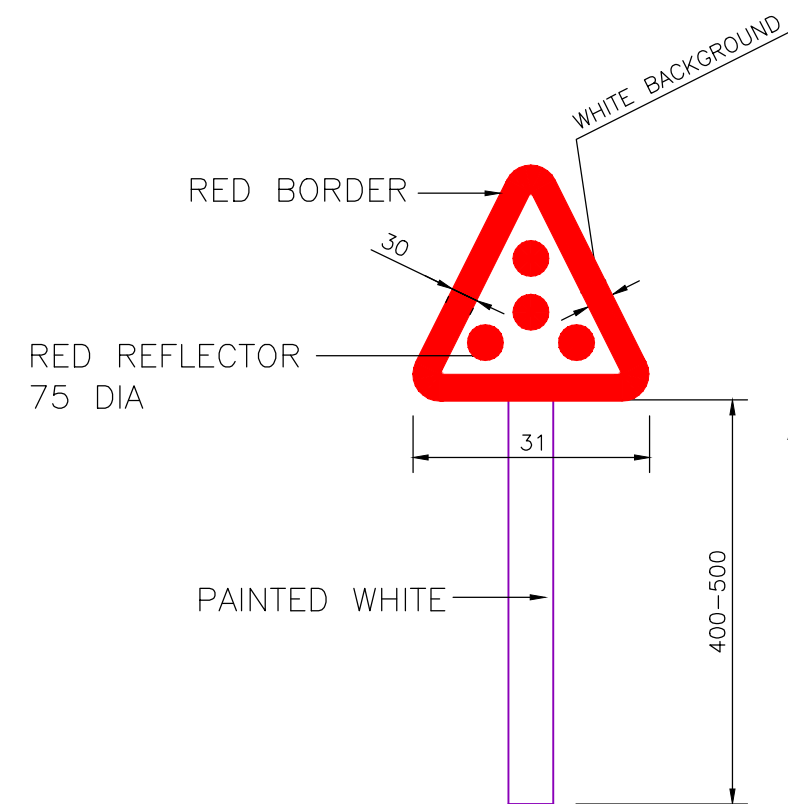
NOTES:
1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 67-2012.

				DESIGN CONSULTANT:				SCALE:				CLIENT:				DRAWING TITLE:				DRG. NO.		REV.	
				LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				 HORIZONTAL SCALE				 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India				TYPICAL DETAIL OF ROAD SIGNS				73580\LASA\HIGHWAYS\MISC\RS-01		0	
				INDIA   				 VERTICAL SCALE				PROJECT:				(Sheet 3 of 5)							
								"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"								DATE: JULY 2021				DRAWN : Ravindra Patwal			
MKD.				DATE				DESCRIPTION				BY				DESIGNED Rakesh.M				CHECKED Sujoy Sinha		APPROVED J.K.Das	
REVISION																				SHEET SIZE A2			



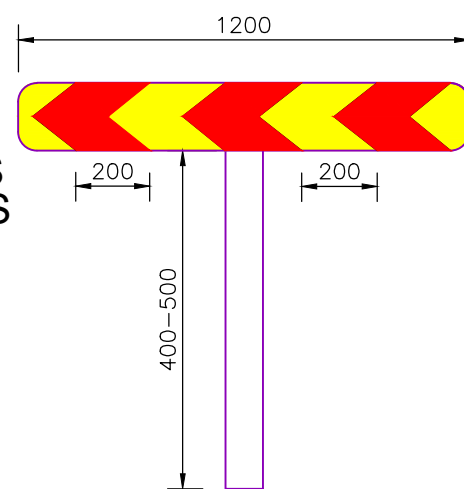
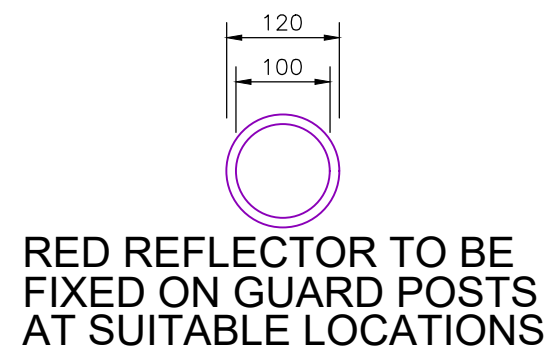
1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 67-2012.

[illegible]

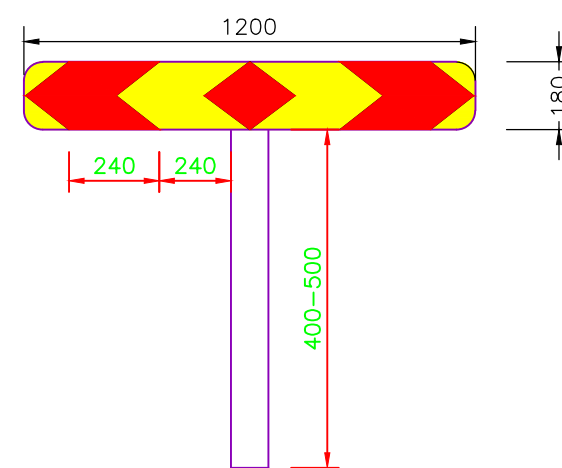


CLUSTER OF RED REFLECTORS

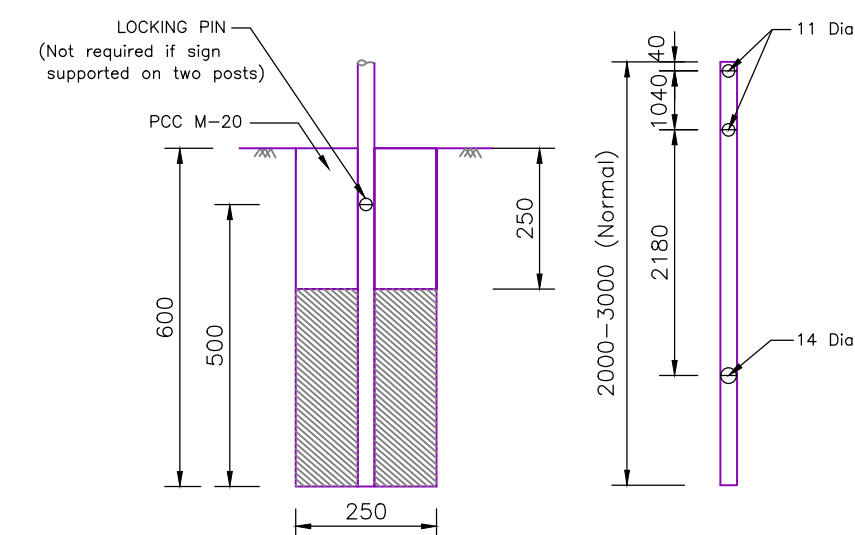
TA-1



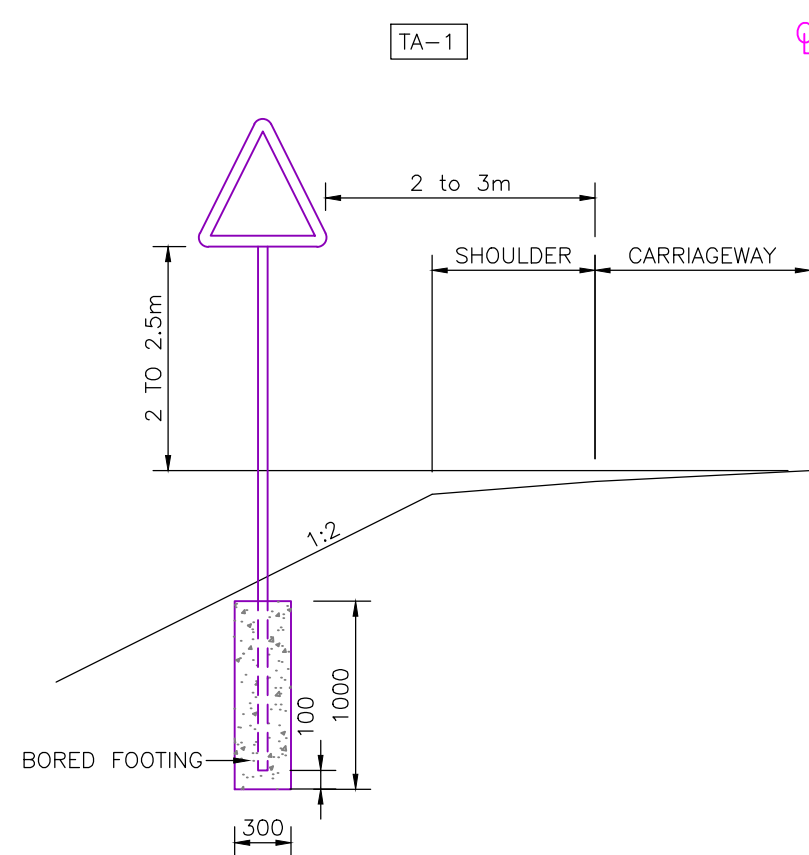
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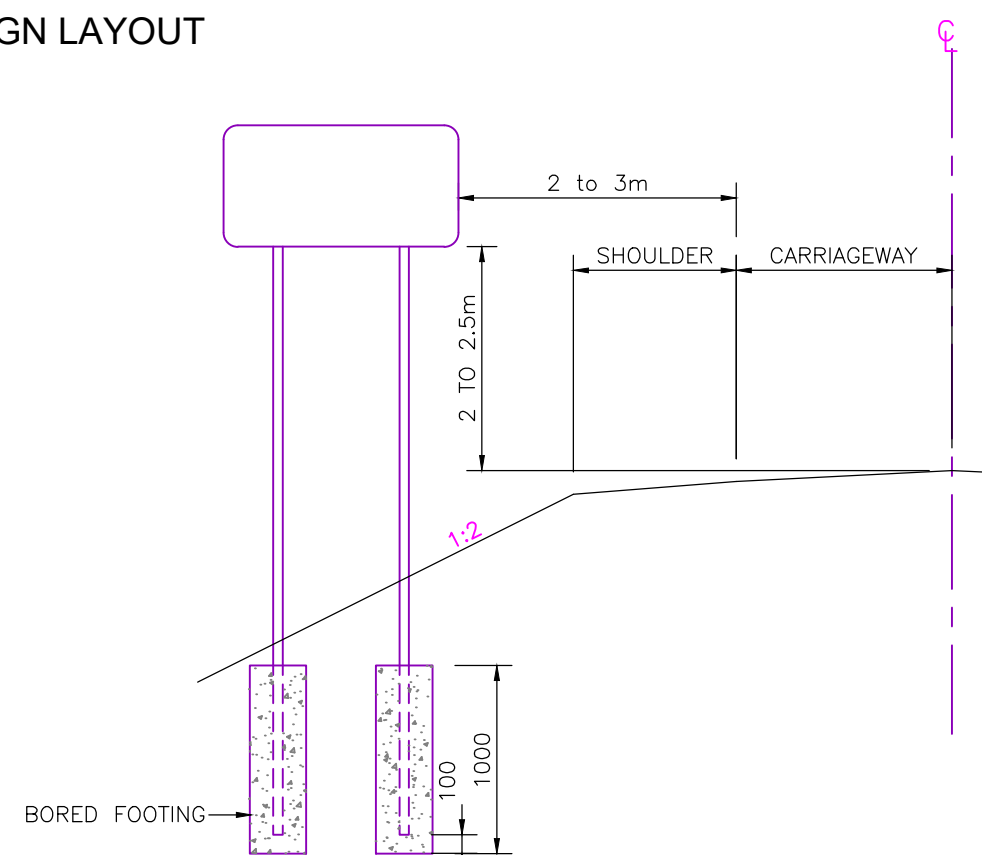
TA-3



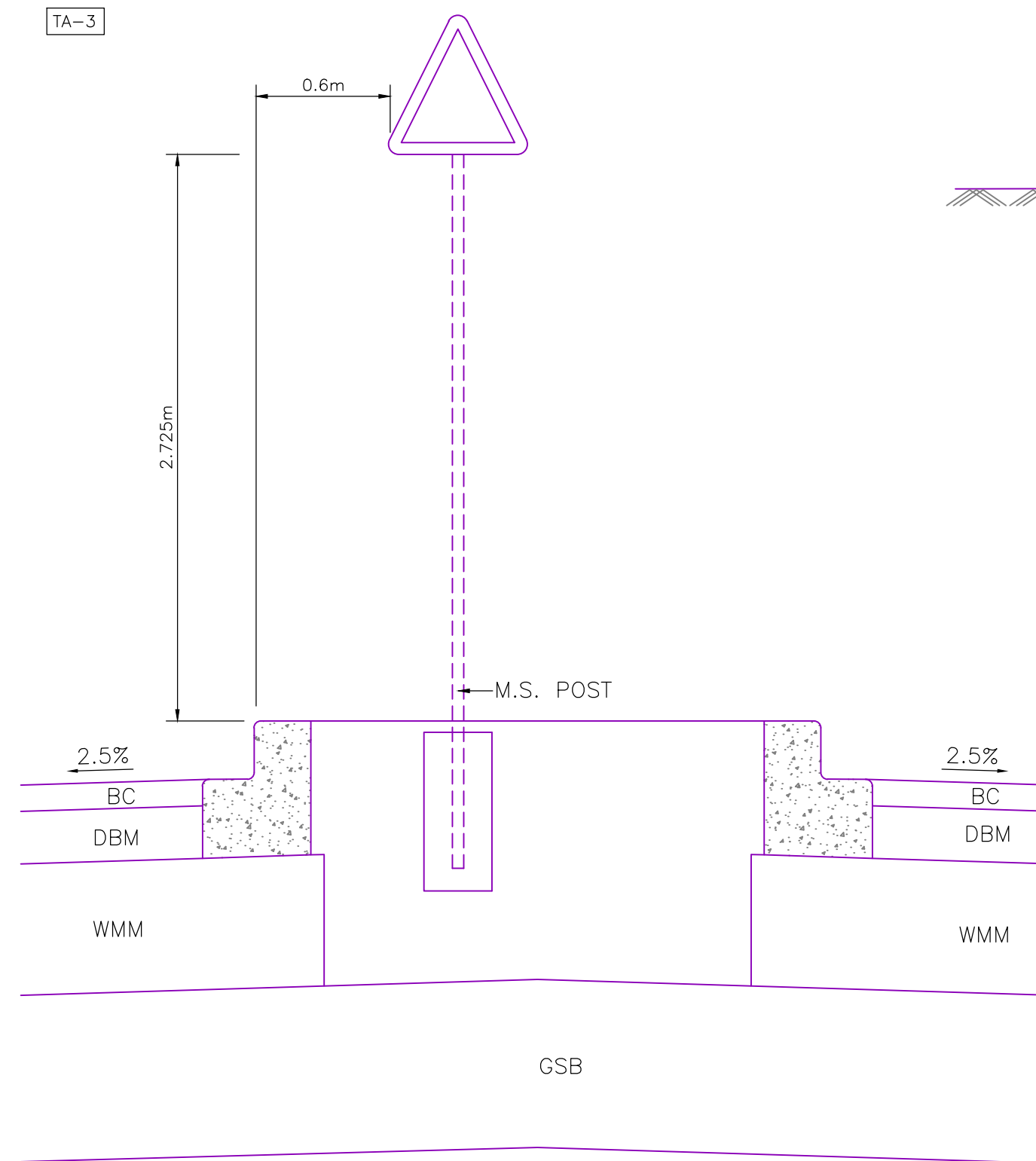
FOOTING DETAILS FOR SINGLE SIGN SUPPORT



SINGLE LEAF SIGN



DIRECTIONAL SIGN
(WITH BORED FOOTING)



SIGN DETAILS IN MEDIAN

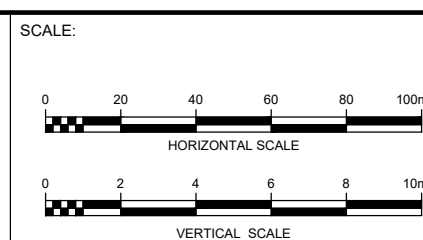
NOTES:

1. ALL THE DIMENSIONS ARE IN MILLIMETERS UNLESS AND OTHERWISE SPECIFIED.
2. FOR FURTHER DETAILS OF DRAWING REFER IRC: 67-1997.

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DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE
INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI-110044
INDIA



CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways)
Government of India

PROJECT:

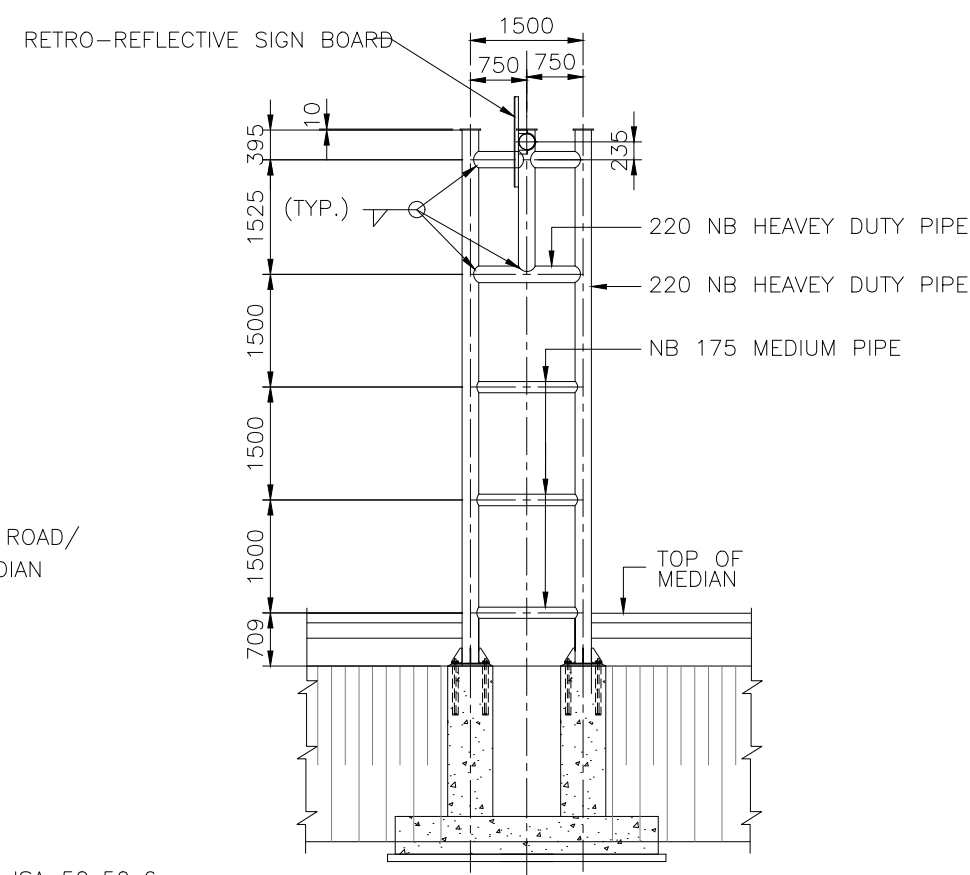
"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"

DRAWING TITLE:

TYPICAL DETAIL OF ROAD SIGNS

(Sheet 5 of 5)

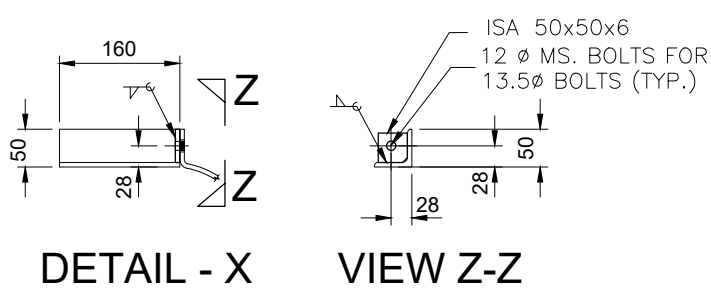
DRG. NO.	REV.
73580\LASA\HIGHWAYS\MISC\RS-01	0
DATE: JULY 2021	DRAWN : Ravindra Patwal
DESIGNED Rakesh.M	CHECKED Sujoy Sinha
	APPROVED J.K.Das
	SHEET SIZE A2



LEGEND:-

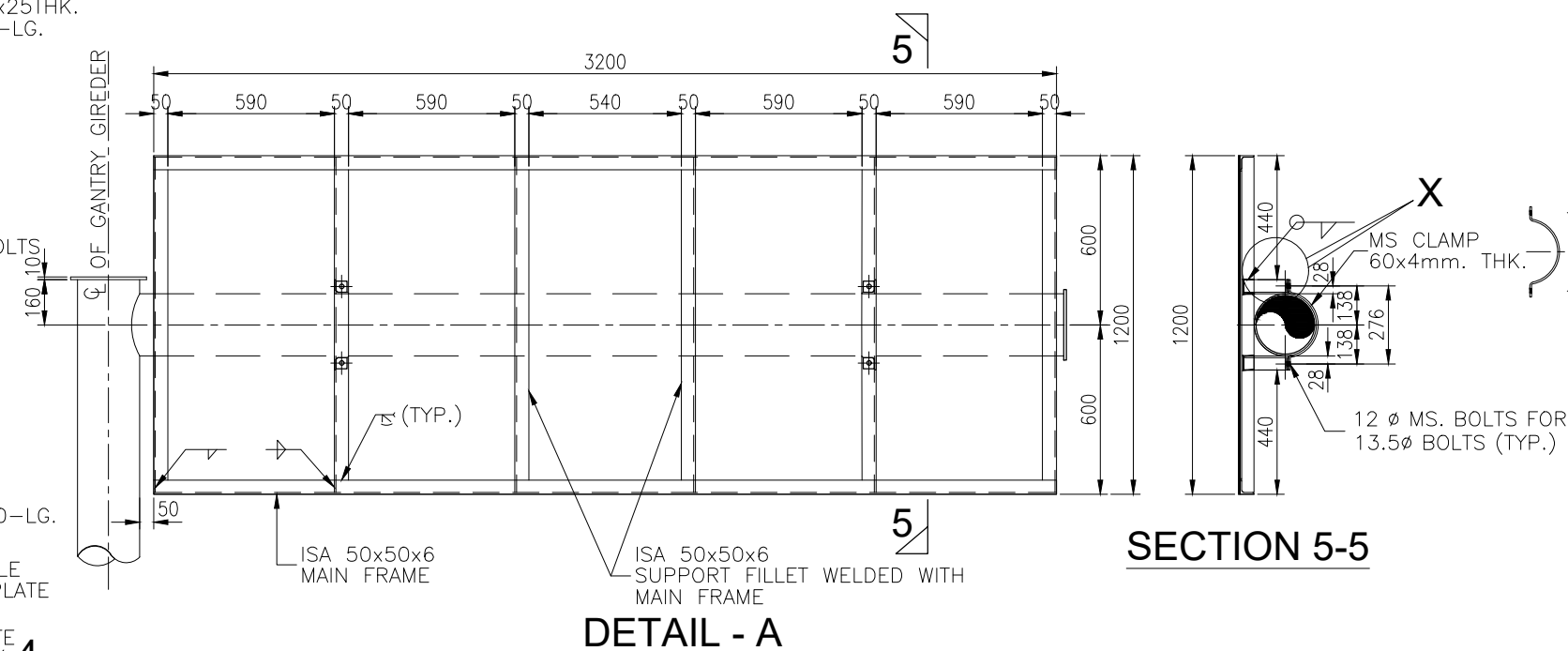
TOP BARS / NEAR BARS	— — —
BOTTOM BARS / FAR BARS	=====

ELEVATION 1-1



DETAIL - X

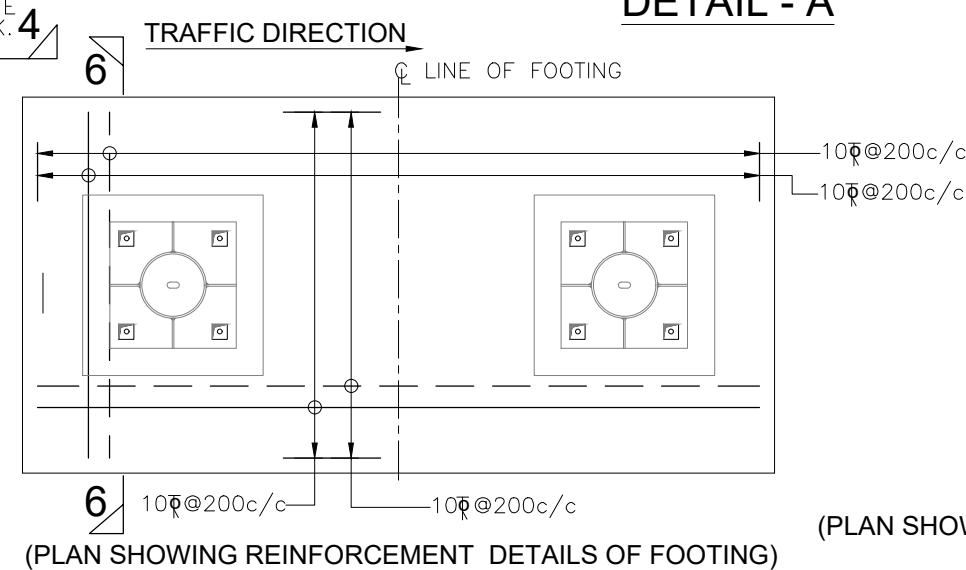
VIEW Z-Z



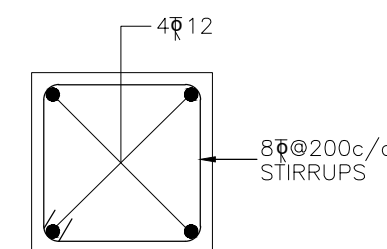
SECTION 5-5



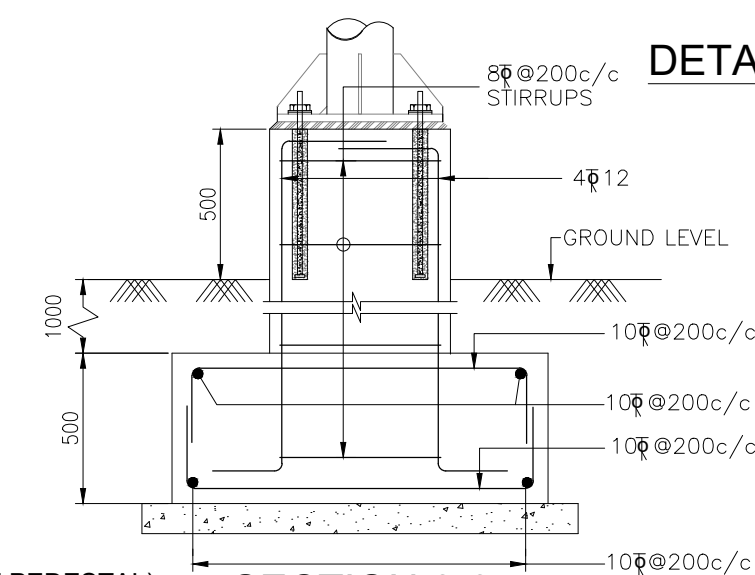
DETAIL SHOWING SIGN BOARD

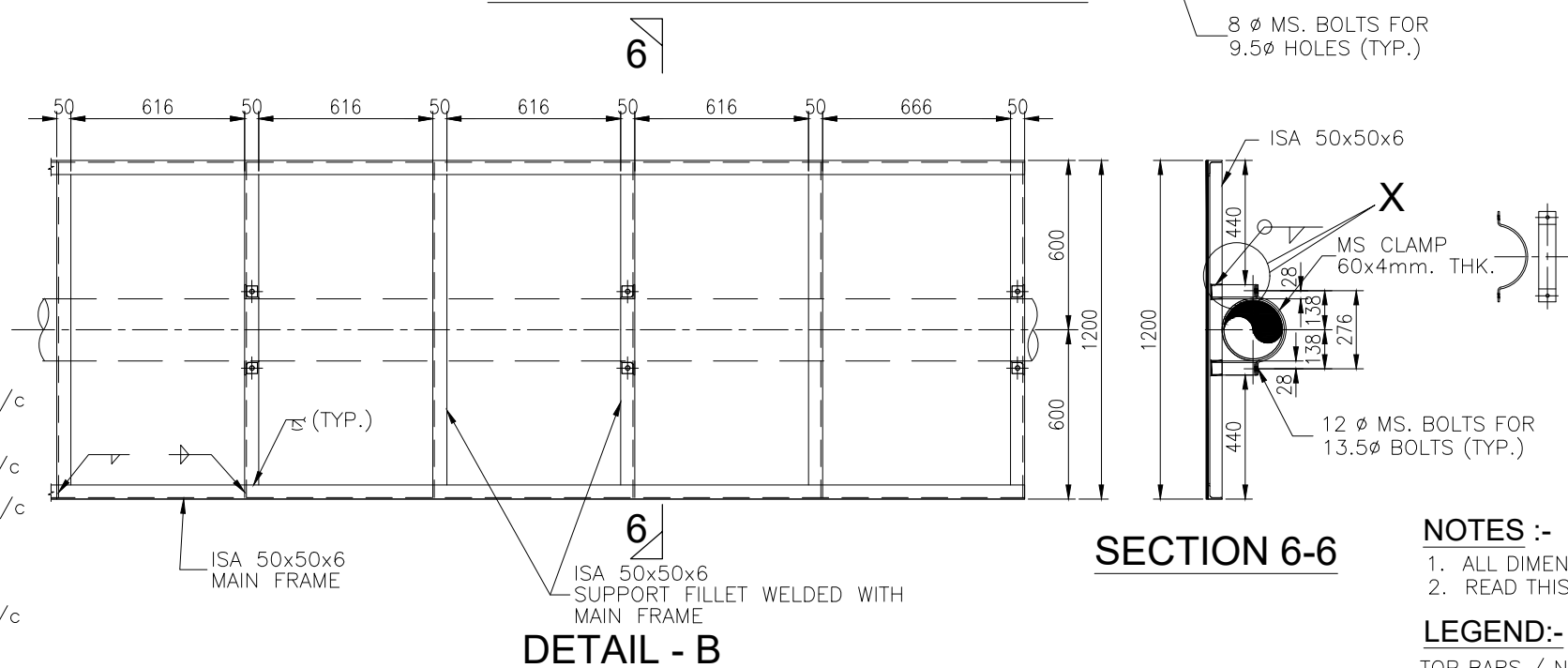
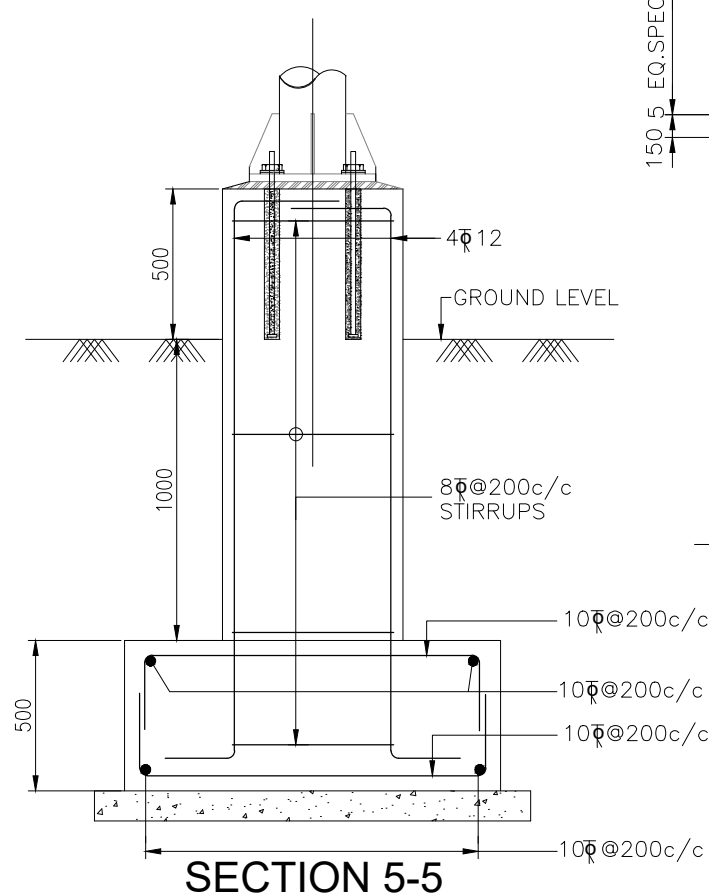
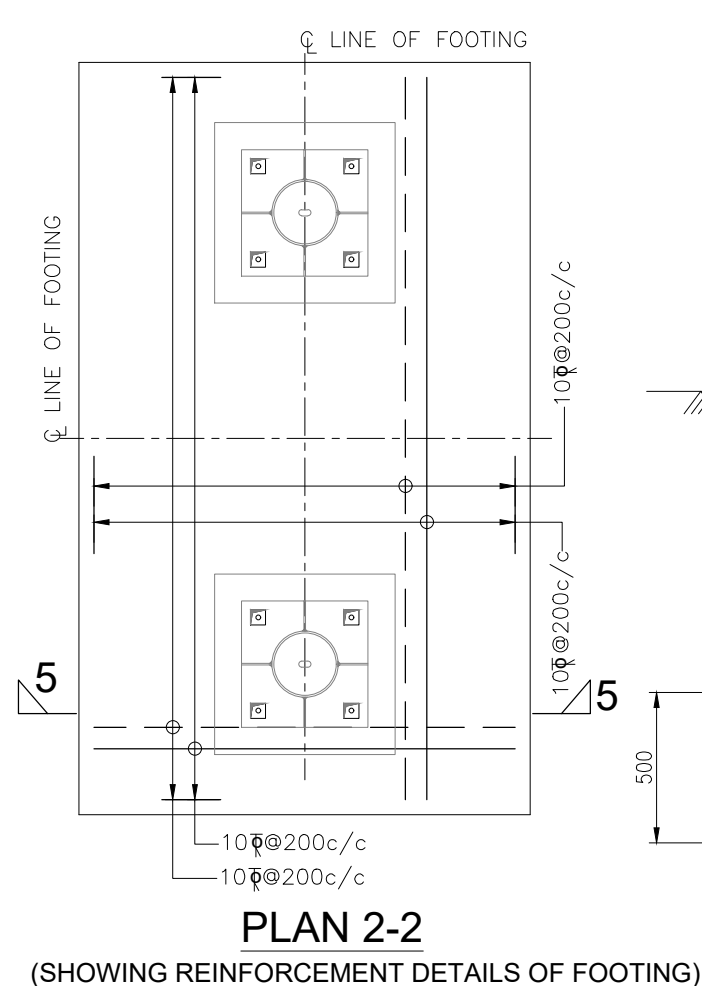
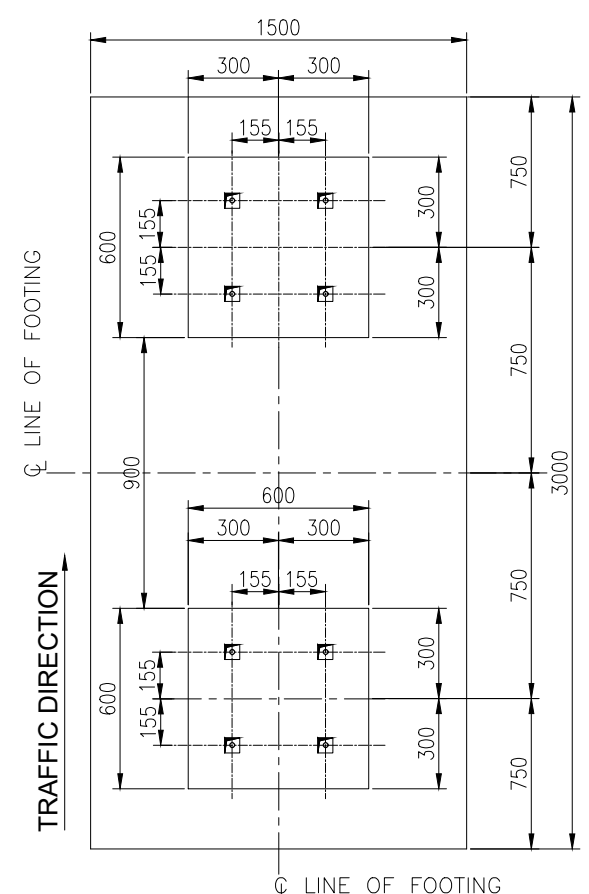
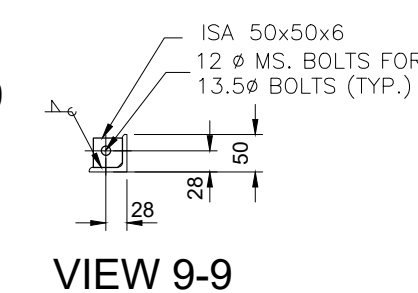
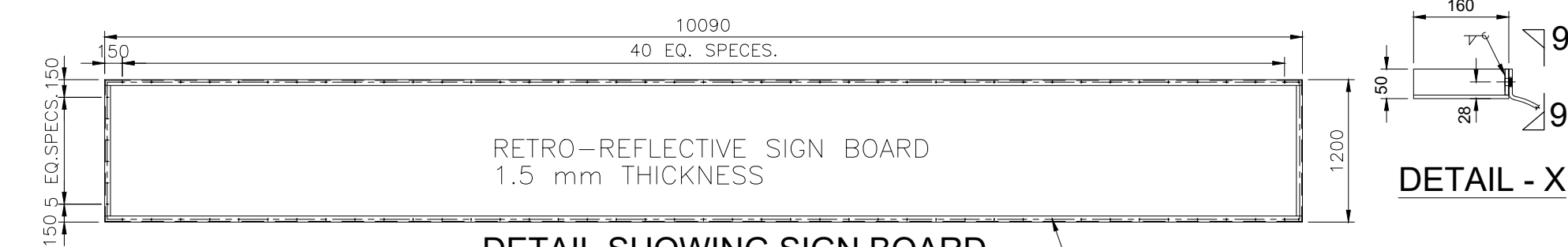
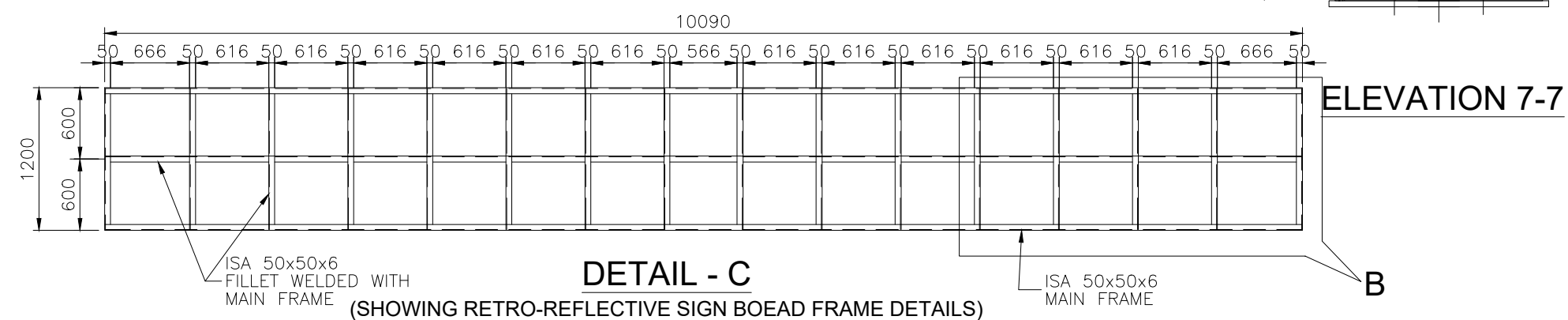
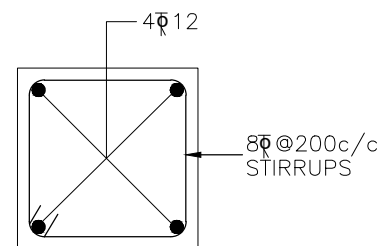
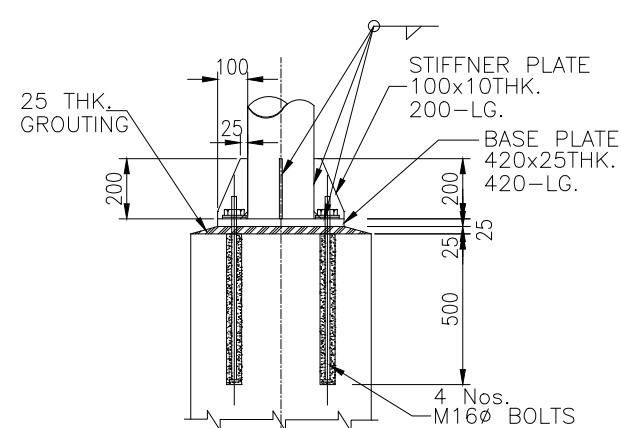
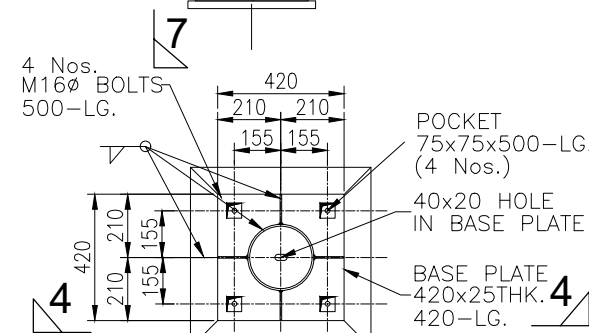
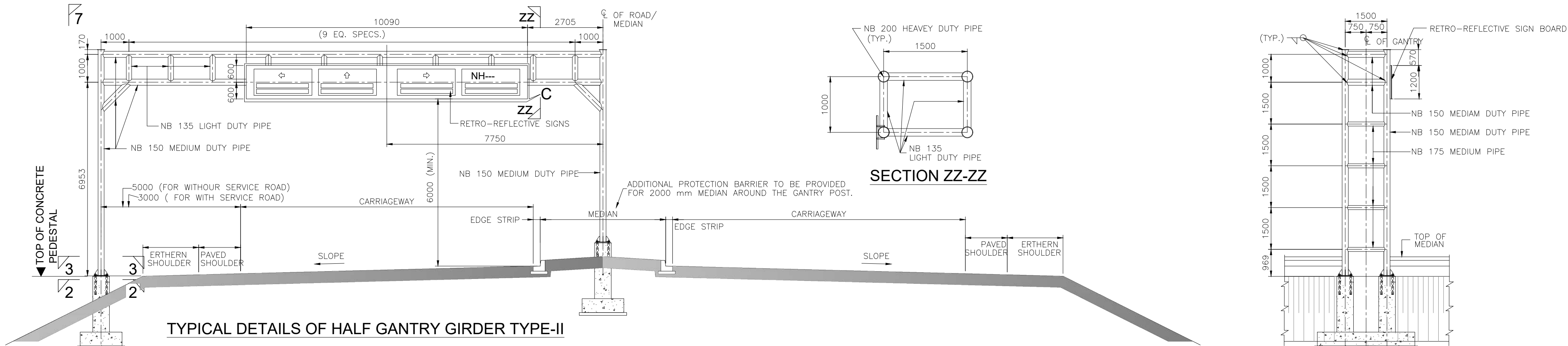


(PLAN SHOWING REINFORCEMENT DETAILS OF PEDESTAL)



SECTION 6-6

[illegible]



SECTION 6-6

NOTES :-
1. ALL DIMENSION ARE IN MILLIMETRES. UNLESS OTHERWISE SPECIFIED.
2. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.

LEGEND:-
TOP BARS / NEAR BARS
BOTTOM BARS / FAR BARS

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MKD.	DATE	DESCRIPTION	BY										
REVISION													

