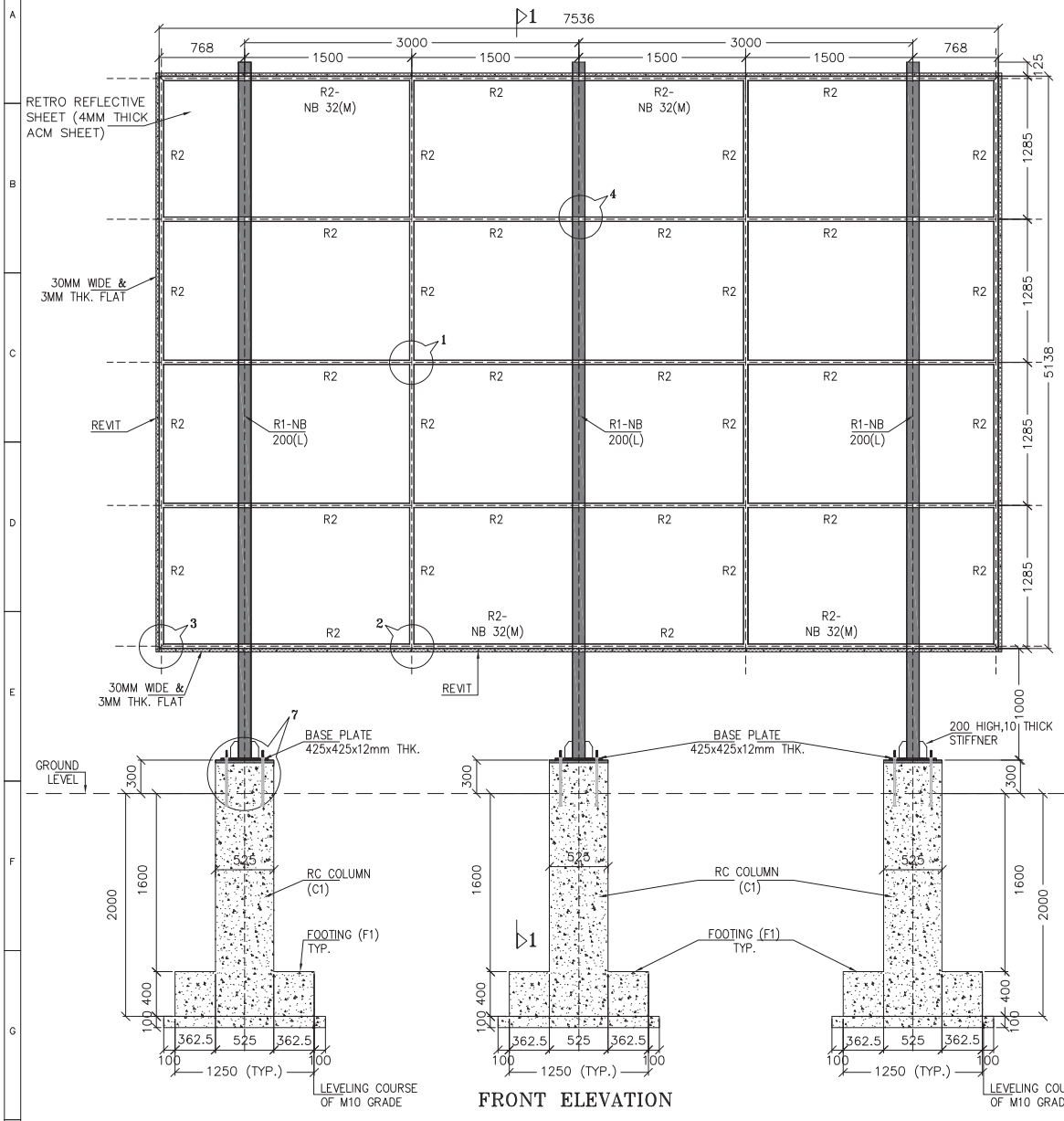
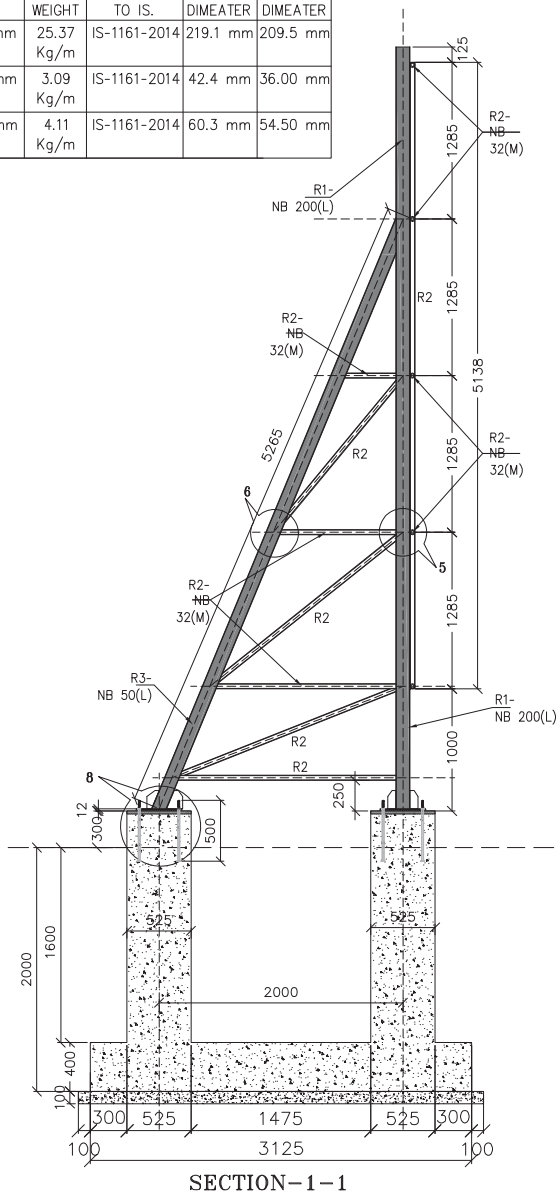
MEMBER MARKED IN DRAWING	STRUCTURAL MEMBER	THICKNESS	UNIT WEIGHT	CONFIRMING TO IS.	OUTSIDE DIMEATER	INSIDE DIMEATER
R1	NB 200 (L)	4.80 mm	25.37 Kg/m	IS-1161-2014	219.1 mm	209.5 mm
R2	NB 32 (M)	3.20 mm	3.09 Kg/m	IS-1161-2014	42.4 mm	36.00 mm
R3	NB 50 (L)	2.90 mm	4.11 Kg/m	IS-1161-2014	60.3 mm	54.50 mm



FRONT ELEVATION



SECTION–1–1

REV.	DD MM YY DATE	DESCRIPTION	RRW INIT.	SIGN.	SKS INIT.	SIGN.	KNK INIT.	SIGN.	SPL INIT.	SIGN.
			DESIGNED		DRAWN		CHECKED		APPROVED	
R0	25/10/2023	FOR APPROVAL								

AUTHORITY

NATIONAL HIGHWAYS AUTHORITY OF INDIA

AUTHORITY ENGINEER:
FP Project Management
315,Balgovind Wadi, Nav Prabhadevi Road, Prabhadevi, Mumbai-4000 025

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DESIGN DIRECTOR
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501, 5th Floor, Pearl Square, Satav Nagar, Handewadi Road, Hadapsar, Pune - 411028, Maharashtra
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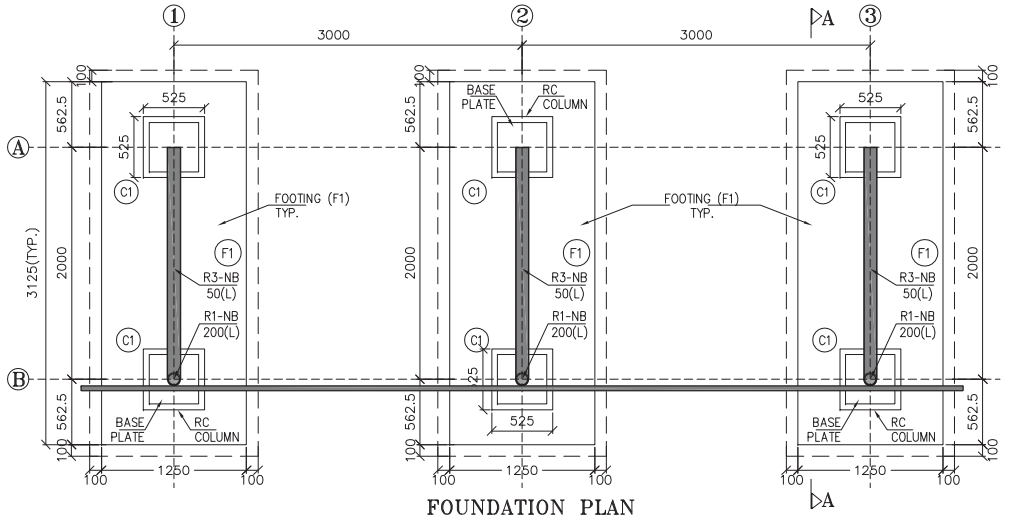
EPC CONTRACTOR:
ASHOKA BUILDCON Ltd.

DESIGN CONSULTANT:
SAMARTH Infraengg Technocrats Private Limited

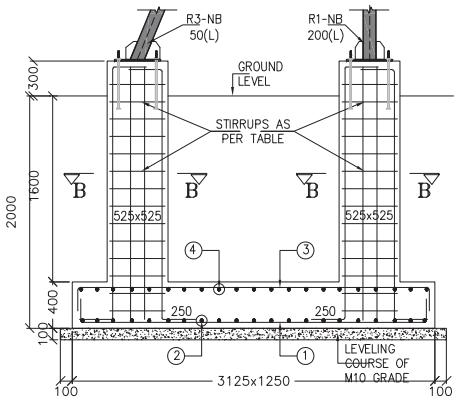
PROJECT:
CONSTRUCTION OF 6 LANING FROM BELGAUM TO SANKESHWAR BYPASSFROM KM. 515+000 TO KM. 555+017 OF NH-48 IN THE STATE OF KARNATAKA ON ENGINEERING, PROCUREMENT & CONSTRUCTION (EPC)MODE UNDER BHARATMALA PARIYOJANA (PACKAGE-I).

TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL EXEMPTED VEHICLES BOARD IN ENGLISH LANGUAGE

DRAWING NO:	SIZE	SCALE:	PROJECT CODE:	REV:
0 4 S A T E B E	A2	N. T. S.	B S R P	R0
		SHEET 1 OF 2		



FOUNDATION PLAN



SECTION–AA

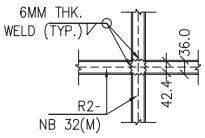
REINFORCEMENT DETAILS

BAR NO	REINFORCEMENT	
1	10ø @ 150 C/C	150
2	10ø @ 150 C/C	150
3	10ø @ 150 C/C	150
4	10ø @ 150 C/C	150

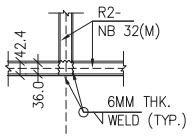
DESIGN BASE PRESSURE T/M²	ACTUAL BASE PRESSURE T/M²
15 T/M²	5.179 T/M²

TOP BAR ——————

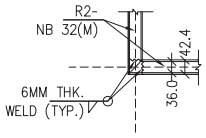
BOTTOM BAR - - - - - - - -



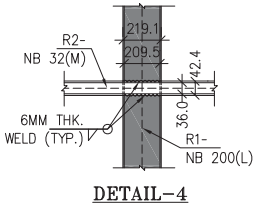
DETAIL–1



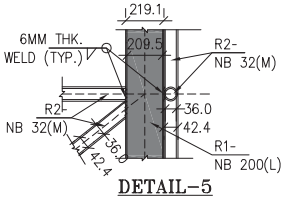
DETAIL–2



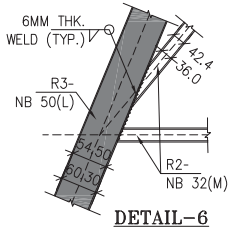
DETAIL–3



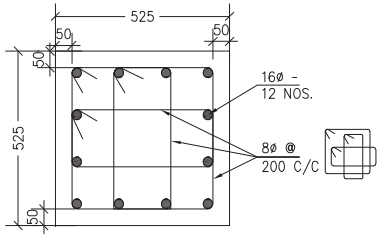
DETAIL–4



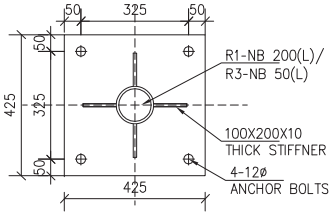
DETAIL–5



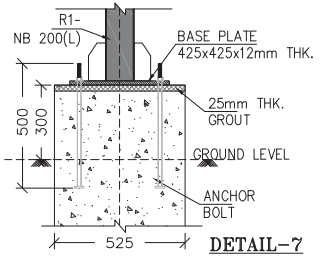
DETAIL–6



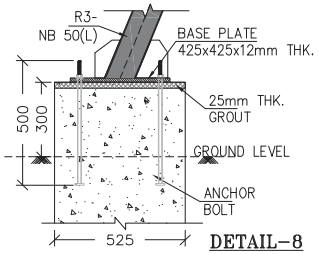
SECTION–BB (C1)



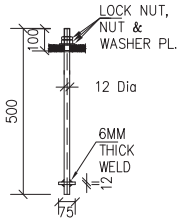
BASE PLATE
425x425x12MM THK.



DETAIL–7



DETAIL–8



ANCHOR BOLT DETAIL
12ø TYP.

NOTES:–

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE FOR RC COLUMN & FOUNDATION = M-25.
3. GRADE OF STEEL SHALL BE Fe-500D (HYSD) AS PER TABLE 18.1 OF IRC-112-2020 & SHALL BE CONFORMING TO IS-1786.
4. CLEAR COVER TO FOOTING SHALL BE 50 MM & FOR RC COLUMN SHALL BE 40 mm.
5. THE GRADE OF STEEL YST 240 SHALL BE USED FOR THE STEEL TUBE AS PER IS-1161-2014.
6. STRUCTURAL STEEL OF GRADE Fe-250 SHALL BE USED FOR BASE PLATE & ANGLE SECTION.
7. DEVELOPMENT LENGTH SHALL BE 67 TIMES BAR DIAMETER & LAP LENGTH SHALL BE 94 TIMES BAR DIAMETER.
8. PATTERN OF COLOUR TO BACKGROUND (BORDER, LETTERS, ARROWS) AS PER TABLE 8.3 OF IRC-67-2012.
9. SBC SHALL BE VERIFIED AT SITE WITH THE AUTHORITY ENGINEER PRIOR TO THE EXECUTION OF WORK.
10. ALL WELD SHALL BE 6 MM THICK FILLET WELD UNLESS NOTED OTHERWISE.
11. ALL WELDS SHALL BE CONFORM TO IS-816-1969 & IS-1323-1982.
12. 25 MM THICK NON SHRINK CEMENTITUOUS GROUT SHALL BE PROVIDED HAVING COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 40 N/mm².
13. BOLTS ARE TO BE INSTALLED BEFORE CONCRETING.
14. BASE PLATE HOLES & BOLT LOCATION SHALL BE VERIFIED BEFORE CONCRETING.
15. SAFE BEARING CAPACITY OF 15 T/m² HAS TO BE ENSURED ON SITE BEFORE LAYING THE FOUNDATION.
16. ANCHOR BOLTS SHALL BE OF CLASS 4.6

NOTES:– FOR DETAILS OF INFORMATION OVER TOLL EXEMPTED VEHICLE BOARD IN ENGLISH LANGUAGE REFER DRAWING NUMBER B-S-MISC-17

REV.	DD MM YY DATE	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
R0	25/10/2023	FOR APPROVAL	RRW	SKS	KNK	SPL

AUTHORITY

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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DESIGN DIRECTOR
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email:rdcivilsolutions@gmail.com

EPC CONTRACTOR:
ASHOKA BUILDCON Ltd.

DESIGN CONSULTANT:
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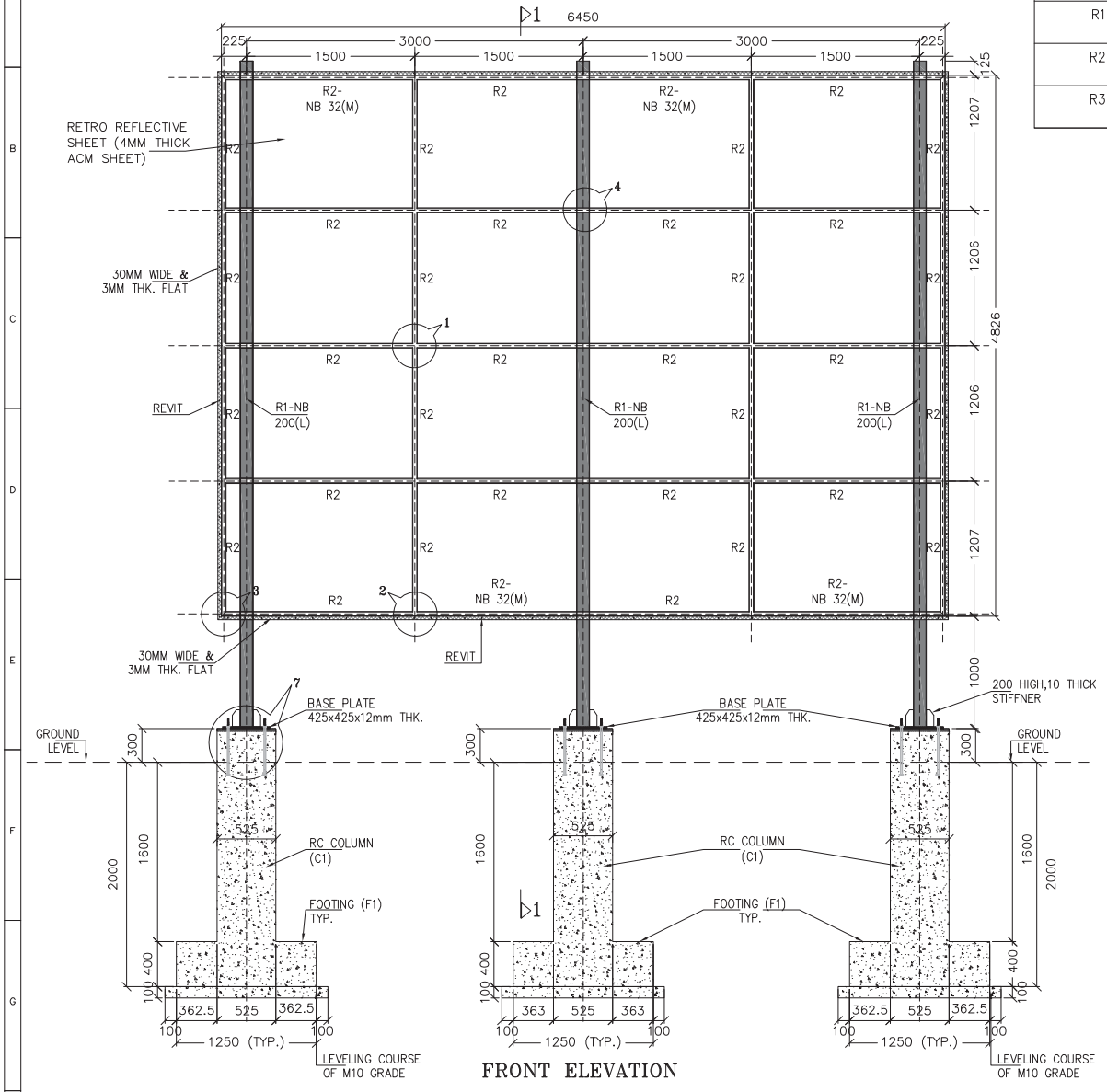
PROJECT:
CONSTRUCTION OF 6 LANING FROM BELGAUM TO SANKESHWAR BYPASSFROM KM. 515+000 TO KM. 555+017 OF NH-48 IN THE STATE OF KARNATAKA ON ENGINEERING, PROCUREMENT & CONSTRUCTION (EPC)MODE UNDER BHARATMALA PARIYOJANA (PACKAGE-I).

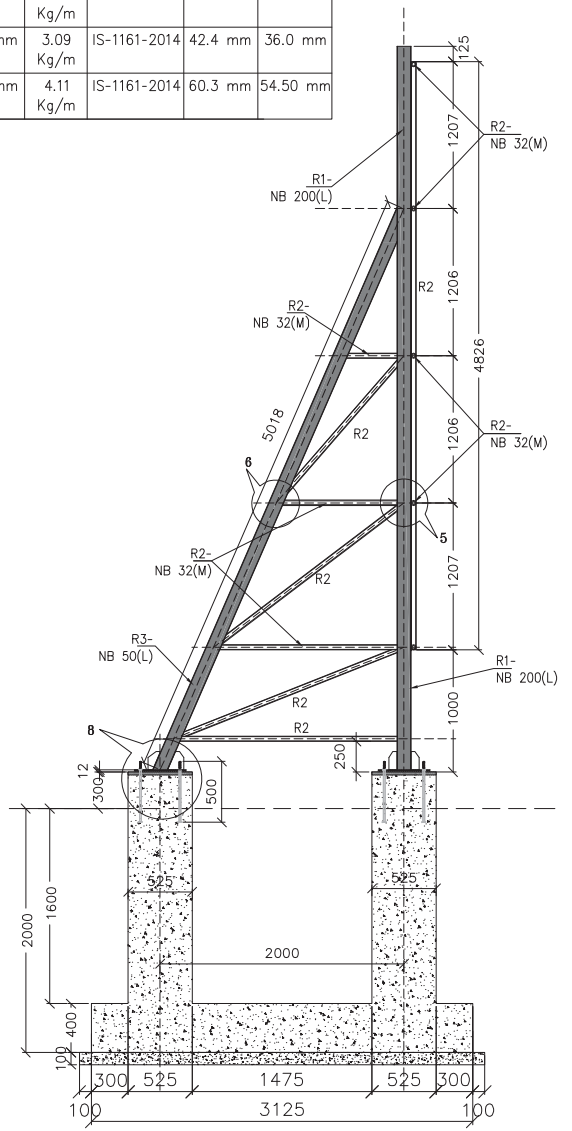
TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL EXEMPTED VEHICLES BOARD IN ENGLISH LANGUAGE

DRAWING NO: 04SATEBE | SIZE: A2 | SCALE: N. T. S. | SHEET 2 OF 2 | PROJECT CODE: BSRP | REV: R0

MEMBER MARKED IN DRAWING	STRUCTURAL MEMBER	THICKNESS	UNIT WEIGHT	CONFIRMING TO IS.	OUTSIDE DIMEATER	INSIDE DIMEATER
R1	NB 200 (L)	4.80 mm	25.37 Kg/m	IS-1161-2014	219.1 mm	209.5 mm
R2	NB 32 (M)	3.20 mm	3.09 Kg/m	IS-1161-2014	42.4 mm	36.0 mm
R3	NB 50 (L)	2.90 mm	4.11 Kg/m	IS-1161-2014	60.3 mm	54.50 mm



FRONT ELEVATION



SECTION–1–1

REV.	DD MM YY DATE	DESCRIPTION	RRW INIT.	SIGN.	SKS INIT.	SIGN.	KNK INIT.	SIGN.	SPL INIT.	SIGN.
R0	25/10/2023	FOR APPROVAL	DESIGNED		DRAWN		CHECKED		APPROVED	

AUTHORITY

NATIONAL HIGHWAYS AUTHORITY OF INDIA

AUTHORITY ENGINEER:
FP Project Management
315,Balgovind Wadi, Nev Prabhadevi Road, Prabhadevi, Mumbai-4000 025

SAFETY CONSULTANT:
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Email: info.indianinfratech@gmail.com

DESIGN DIRECTOR:
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DESIGN DIRECTOR
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#6-3-1100/5, 2nd Floor Raj Bhavan Road, Somajiguda Hyderabad-500082

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PROJECT:
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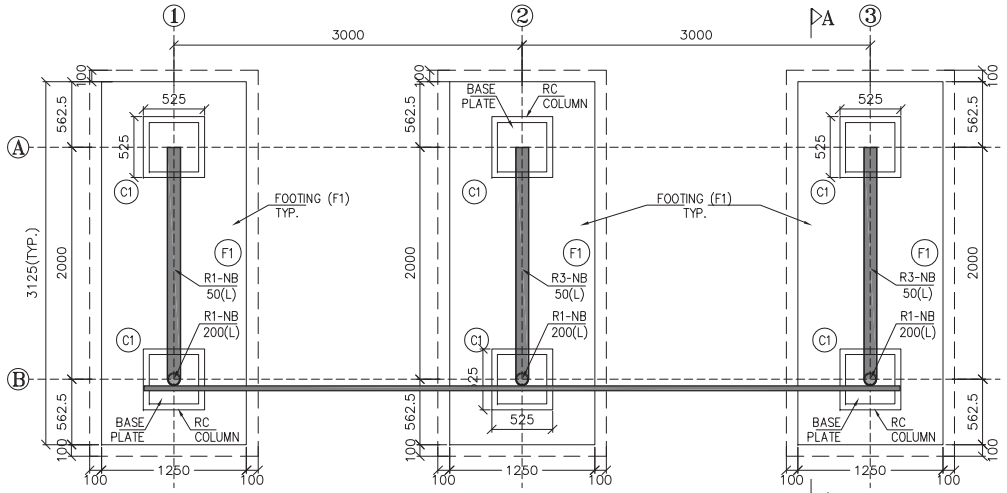
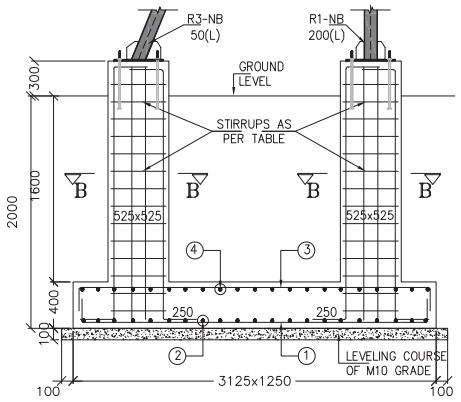
TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL EXEMPTED VEHICLES BOARD IN HINDI LANGUAGE

DRAWING NO:	SIZE	SCALE: N. T. S.	PROJECT CODE:	REV:
0 5 S A T E B H	A2	SHEET 1 OF 2	B S R P	R0



FOUNDATION PLAN

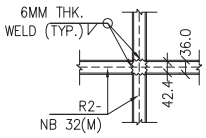


SECTION–AA

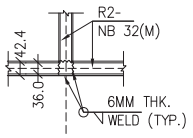
REINFORCEMENT DETAILS

BAR NO	REINFORCEMENT	
1	10ø @ 150 C/C	150
2	10ø @ 150 C/C	150
3	10ø @ 150 C/C	150
4	10ø @ 150 C/C	150

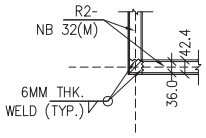
DESIGN BASE PRESSURE T/M²	ACTUAL BASE PRESSURE T/M²
15 T/M²	5.173 T/M²



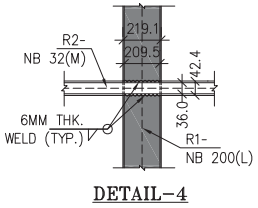
DETAIL–1



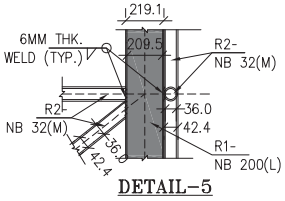
DETAIL–2



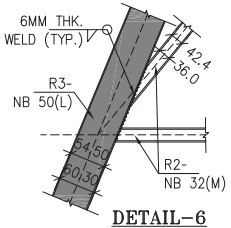
DETAIL–3



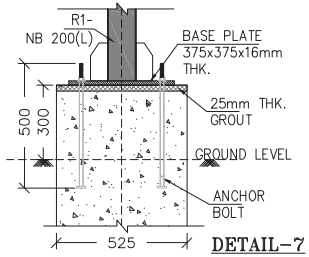
DETAIL–4



DETAIL–5



DETAIL–6



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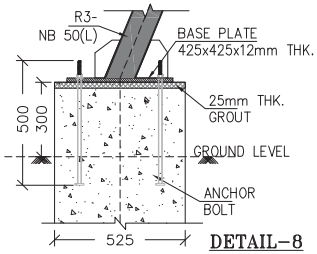
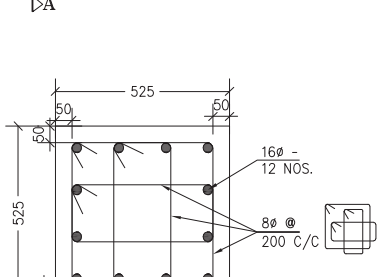
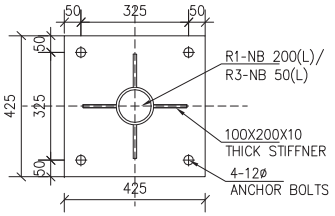


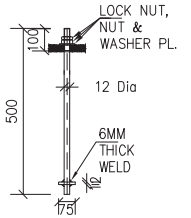
DETAIL–8



SECTION–BB (C1)



BASE PLATE
425x425x12MM THK.



ANCHOR BOLT DETAIL
12ø TYP.

NOTES:–

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE FOR RC COLUMN & FOUNDATION = M-25.
3. GRADE OF STEEL SHALL BE Fe-500D (HYSD) AS PER TABLE 18.1 OF IRC-112-2020 & SHALL BE CONFORMING TO IS-1786.
4. CLEAR COVER TO FOOTING SHALL BE 50 MM & FOR RC COLUMN SHALL BE 40 mm.
5. THE GRADE OF STEEL YST 240 SHALL BE USED FOR THE STEEL TUBE AS PER IS-1161-2014.
6. STRUCTURAL STEEL OF GRADE Fe-250 SHALL BE USED FOR BASE PLATE & ANGLE SECTION.
7. DEVELOPMENT LENGTH SHALL BE 67 TIMES BAR DIAMETER & LAP LENGTH SHALL BE 94 TIMES BAR DIAMETER.
8. PATTERN OF COLOUR TO BACKGROUND (BORDER, LETTERS, ARROWS) AS PER TABLE 8.3 OF IRC-67-2012.
9. SBC SHALL BE VERIFIED AT SITE WITH THE AUTHORITY ENGINEER PRIOR TO THE EXECUTION OF WORK.
10. ALL WELD SHALL BE 6 MM THICK FILLET WELD UNLESS NOTED OTHERWISE.
11. ALL WELDS SHALL BE CONFORM TO IS-816-1969 & IS-1323-1982.
12. 25 MM THICK NON SHRINK CEMENTITUOUS GROUT SHALL BE PROVIDED HAVING COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 40 N/mm².
13. BOLTS ARE TO BE INSTALLED BEFORE CONCRETING.
14. BASE PLATE HOLES & BOLT LOCATION SHALL BE VERIFIED BEFORE CONCRETING.
15. SAFE BEARING CAPACITY OF 15 T/m² HAS TO BE ENSURED ON SITE BEFORE LAYING THE FOUNDATION.
16. ANCHOR BOLTS SHALL BE OF CLASS 4.6

NOTES:– FOR DETAILS OF INFORMATION OVER TOLL EXEMPTED VEHICLE BOARD IN HINDI LANGUAGE REFER DRAWING NUMBER B-S-MISC-17

REV.	DD MM YY DATE	DESCRIPTION	RRW INIT.	SIGN.	SKS INIT.	SIGN.	KNK INIT.	SIGN.	SPL INIT.	SIGN.
R0	25/10/2023	FOR APPROVAL	DESIGNED		DRAWN		CHECKED		APPROVED	

AUTHORITY
NATIONAL HIGHWAYS AUTHORITY OF INDIA

AUTHORITY ENGINEER:
FP Project Management
315,Balgovind Wadi, Nav Prabhadevi Road, Prabhadevi, Mumbai-4000 025

SAFETY CONSULTANT:
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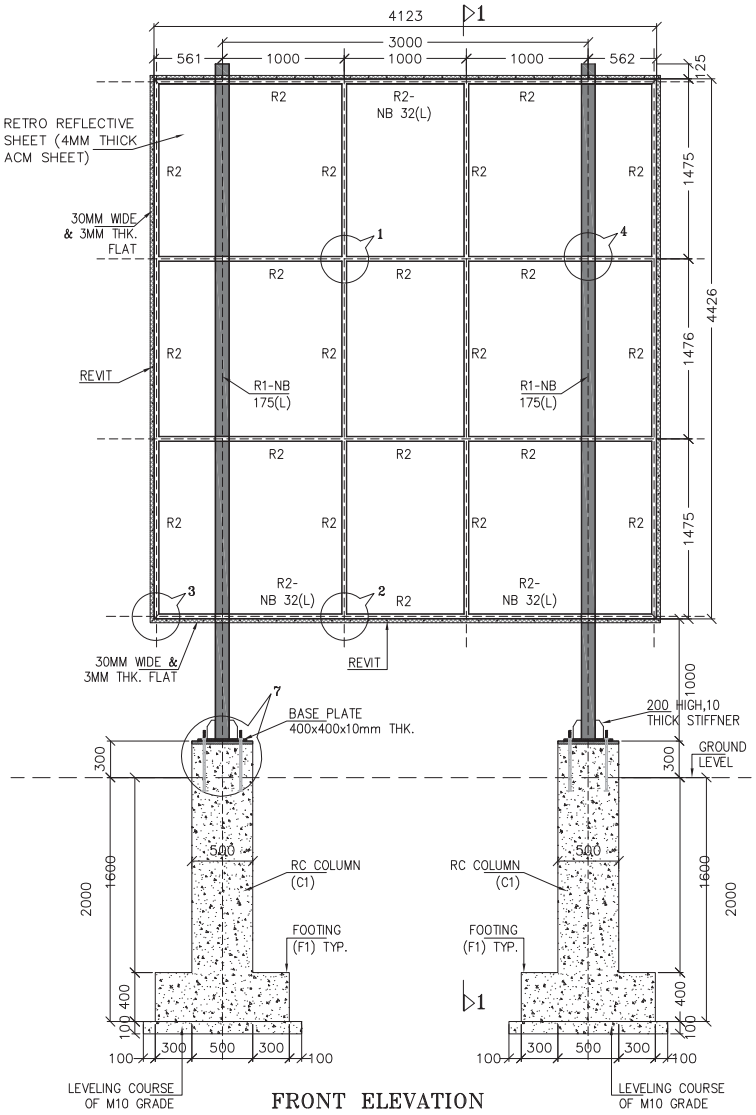
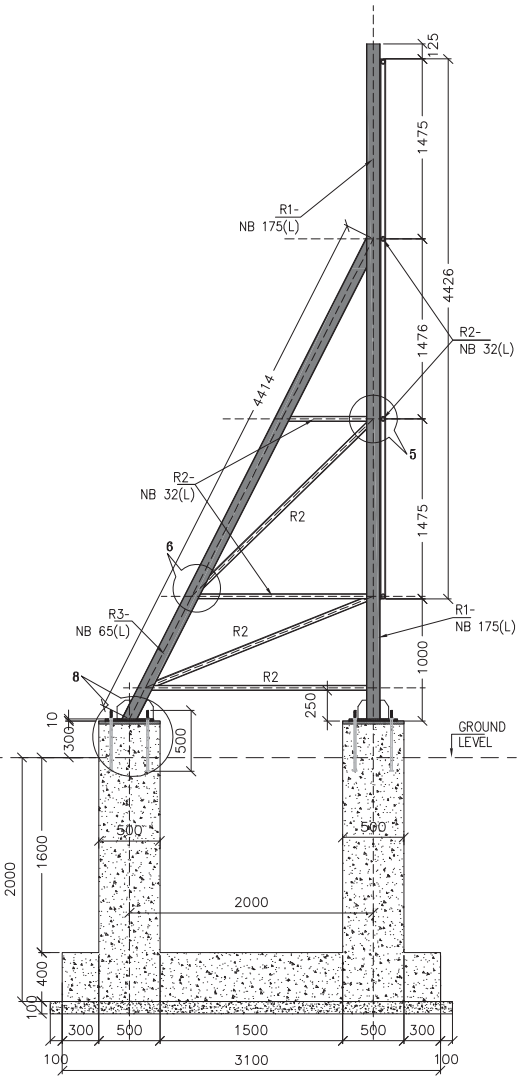
TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL EXEMPTED VEHICLES BOARD IN HINDI LANGUAGE

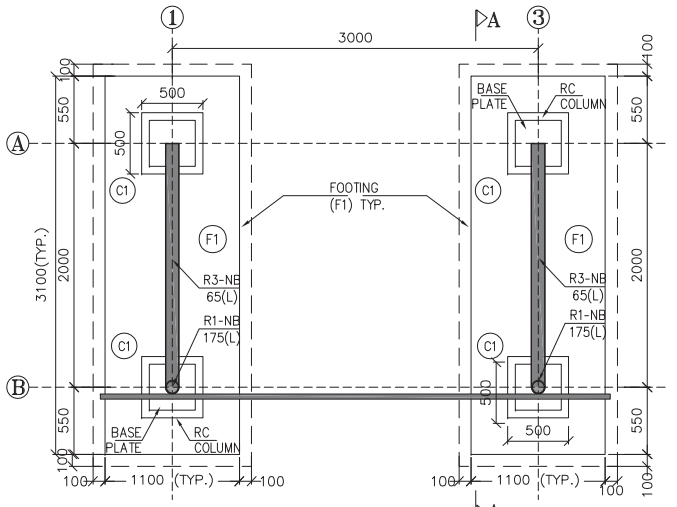
DRAWING NO: 05SATEBH | SIZE: A2 | SCALE: N. T. S. | SHEET 2 OF 2 | PROJECT CODE: BSRP | REV: R0



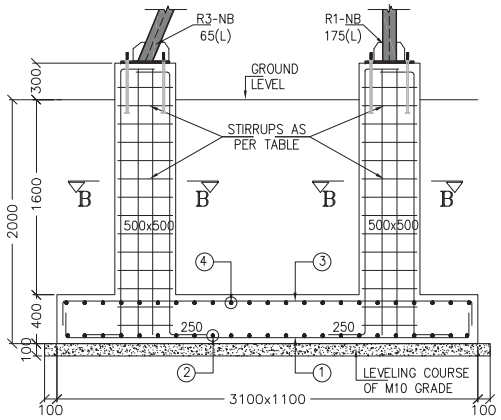
FRONT ELEVATION



SECTION–1–1



FOUNDATION PLAN



SECTION–AA

MEMBER MARKED IN DRAWING	STRUCTURAL MEMBER	THICKNESS	UNIT WEIGHT	CONFIRMING TO IS.	OUTSIDE DIMEATER	INSIDE DIMEATER
R1	NB 175 (L)	4.80 mm	22.36 Kg/m	IS-1161-2014	193.7 mm	184.1 mm
R2	NB 32 (L)	2.60 mm	2.55 Kg/m	IS-1161-2014	42.4 mm	37.20 mm
R3	NB 65 (L)	2.90 mm	4.11 Kg/m	IS-1161-2014	76.1 mm	70.3 mm

REV.	DD MM YY DATE	DESCRIPTION	INIT.	SIGN.	INIT.	SIGN.	INIT.	SIGN.	INIT.	SIGN.
R0	25/10/2023	FOR APPROVAL	RRW		SKS		KNK		SPL	
			DESIGNED		DRAWN		CHECKED		APPROVED	

AUTHORITY

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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EPC CONTRACTOR:
ASHOKA BUILDCON Ltd.

DESIGN CONSULTANT:
SAMARTH Infraengg Technocrats Private Limited

PROJECT:
CONSTRUCTION OF 6 LANING FROM BELGAUM TO SANKESHWAR BYPASSFROM KM. 515+000 TO KM. 555+017 OF NH-48 IN THE STATE OF KARNATAKA ON ENGINEERING, PROCUREMENT & CONSTRUCTION (EPC)MODE UNDER BHARATMALA PARIYOJANA (PACKAGE-I).

TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL RATE SIGN BOARD (SIZE - 4123 X 4426 MM)

DRAWING NO: 0 6 S A T F R S

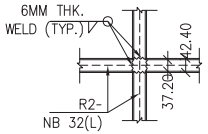
SIZE: A2

SCALE: N. T. S.

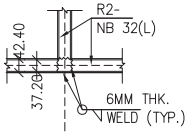
SHEET 1 OF 2

PROJECT CODE: B S R P

REV: R0



DETAIL–1



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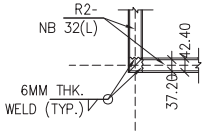
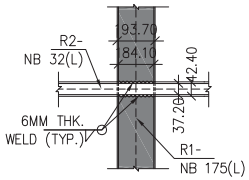


DETAIL–3

REINFORCEMENT DETAILS

BAR NO	REINFORCEMENT	
1	10ø @ 150 C/C	└_____┘150
2	10ø @ 150 C/C	└_____┘150
3	10ø @ 150 C/C	└_____┘150
4	10ø @ 150 C/C	└_____┘150

DESIGN BASE PRESSURE T/M²	ACTUAL BASE PRESSURE T/M²
15 T/M²	4.694 T/M²



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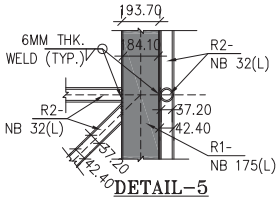
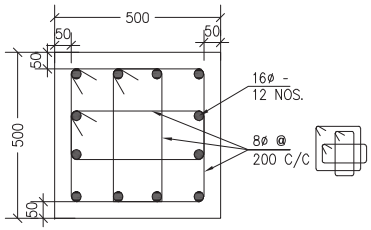
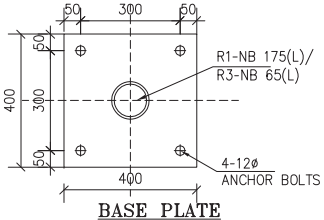


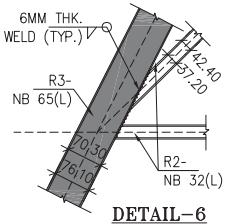
DETAIL–5



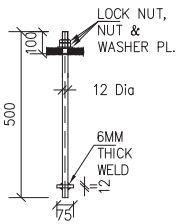
SECTION–BB (C1)



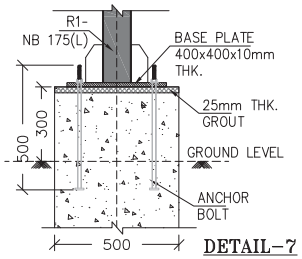
BASE PLATE
400x400x10MM THK.



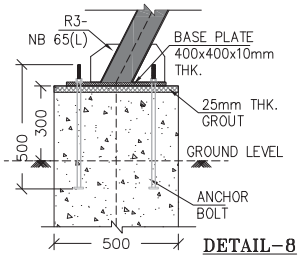
DETAIL–6



ANCHOR BOLT DETAIL
12ø TYP.



DETAIL–7



DETAIL–8

NOTES:–

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE FOR RC COLUMN & FOUNDATION = M-25.
3. GRADE OF STEEL SHALL BE Fe-500D (HYSD) AS PER TABLE 18.1 OF IRC-112-2020 & SHALL BE CONFORMING TO IS-1786.
4. CLEAR COVER TO FOOTING SHALL BE 50 MM & FOR RC COLUMN SHALL BE 40 mm.
5. THE GRADE OF STEEL YST 240 SHALL BE USED FOR THE STEEL TUBE AS PER IS-1161-2014.
6. STRUCTURAL STEEL OF GRADE Fe-250 SHALL BE USED FOR BASE PLATE & ANGLE SECTION.
7. DEVELOPMENT LENGTH SHALL BE 67 TIMES BAR DIAMETER & LAP LENGTH SHALL BE 94 TIMES BAR DIAMETER.
8. PATTERN OF COLOUR TO BACKGROUND (BORDER, LETTERS, ARROWS) AS PER TABLE 8.3 OF IRC-67-2012.
9. SBC SHALL BE VERIFIED AT SITE WITH THE AUTHORITY ENGINEER PRIOR TO THE EXECUTION OF WORK.
10. ALL WELD SHALL BE 6 MM THICK FILLET WELD UNLESS NOTED OTHERWISE.
11. ALL WELDS SHALL BE CONFORM TO IS-816-1969 & IS-1323-1982.
12. 25 MM THICK NON SHRINK CEMENTITUOUS GROUT SHALL BE PROVIDED HAVING COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 40 N/mm².
13. BOLTS ARE TO BE INSTALLED BEFORE CONCRETING.
14. BASE PLATE HOLES & BOLT LOCATION SHALL BE VERIFIED BEFORE CONCRETING.
15. SAFE BEARING CAPACITY OF 15 T/m² HAS TO BE ENSURED ON SITE BEFORE LAYING THE FOUNDATION.
16. ANCHOR BOLTS SHALL BE OF CLASS 4.6

NOTES:– FOR DETAILS OF INFORMATION OVER TOLL RATE SIGN BOARD REFER DRAWING NUMBER B-S-MISC-17

REV.	DD MM YY DATE	DESCRIPTION	INIT.	SIGN.	INIT.	SIGN.	INIT.	SIGN.	INIT.	SIGN.
			DESIGNED		DRAWN		CHECKED		APPROVED	
R0	25/10/2023	FOR APPROVAL	RRW		SKS		KNK		SPL	

AUTHORITY
NATIONAL HIGHWAYS AUTHORITY OF INDIA

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TITLE: STRUCTURAL & REINFORCEMENT DETAILS OF TOLL RATE SIGN BOARD (SIZE - 4123 X 4426 MM)

DRAWING NO: 0 6 S A T F R S

SIZE: A2

SCALE: N. T. S.

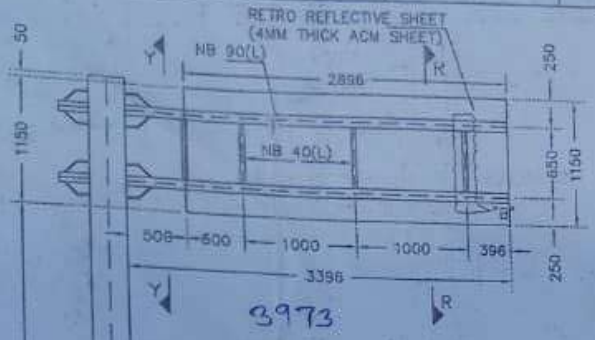
SHEET 2 OF 2

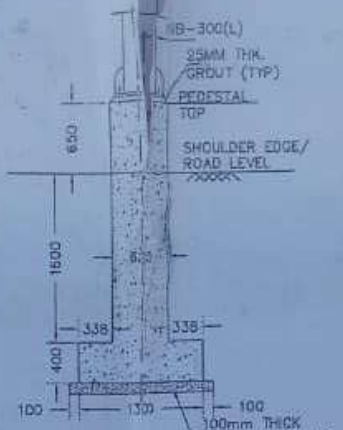
PROJECT CODE: B S R P

REV: R0

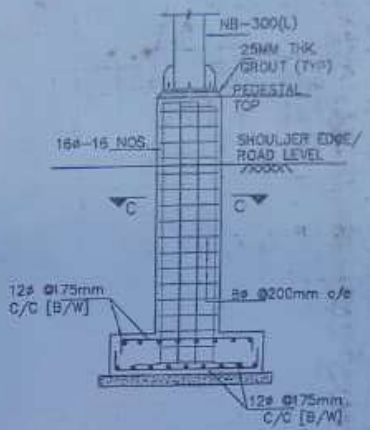
2025/11/15 09:37

Encl-650

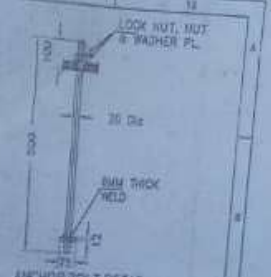


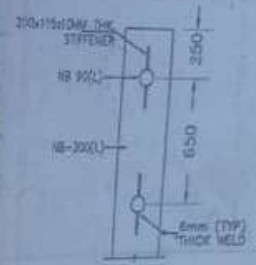


DETAIL-1

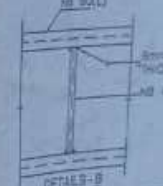


REINFORCEMENT DETAILS





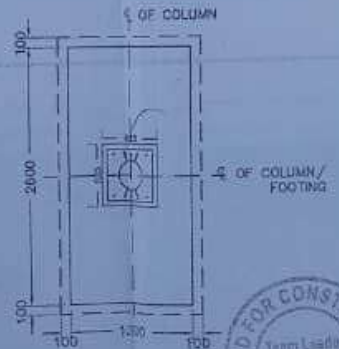
SECTION Y-Y



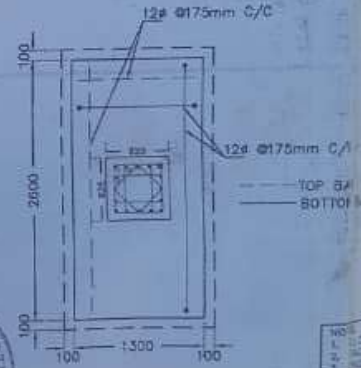
DETAIL-B

NH-48-Schedule of Location of 1Km Toll Ahead Boards as per RFP			
S.No	Chainage	Side	Placement of Board
1	535+805	LHS	MCW Outer Edge
2	538+790	RHS	MCW Outer Edge

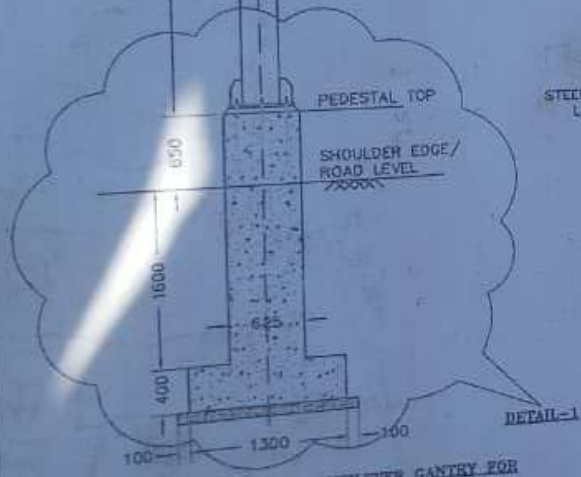
SECTION R-R



FOUNDATION PLAN

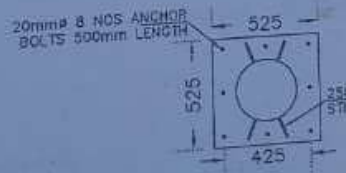


REINFORCEMENT PLAN

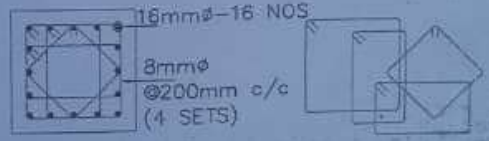


DETAIL-1

TYPICAL POSITION OF CANTILEVER GANTRY FOR
1 Km FEE PLAZA
(SIZE OF SIGN BOARD 2896x1150mm.)



BASE PLATE
525x525x20 mm THICK



SECTION-CC

SR.NO.	STRUCTURAL MEMBER	THICKNESS	UNIT WT (KG/M)	CONFORMING TO IS	OUTSIDE DIAMETER	INSIDE DIAMETER
1.	NB-300(L)	8.50mm	48.34 Kg/m	IS-1161-2014	323.90mm	307.30mm
2	NB-90(L)	3.65mm	8.70 Kg/m	IS-1161-2014	101.60mm	94.40mm
3	NB-40(L)	2.90mm	3.33 Kg/m	IS-1161-2014	48.30mm	42.50mm

ALLOWABLE SBC = 150kN/M²
DESIGN SBC = 78.75kN/M²

REV	DATE	DESCRIPTION
R1	01.10.2025	REVISED AS PER R.E COMMENTS
R0	20.10.2025	FOR APPROVAL
REV.	DD.MM.YY	DATE

AUTHORITY: NATIONAL HIGHWAYS AUTHORITY OF INDIA

SAFETY CONSULTANT:

EPC CONTRACTOR: ASHOKA AMBIKA BUILDCON LTD.

GOOD FOR CONSTRUCTION
Team Leader
FP Project