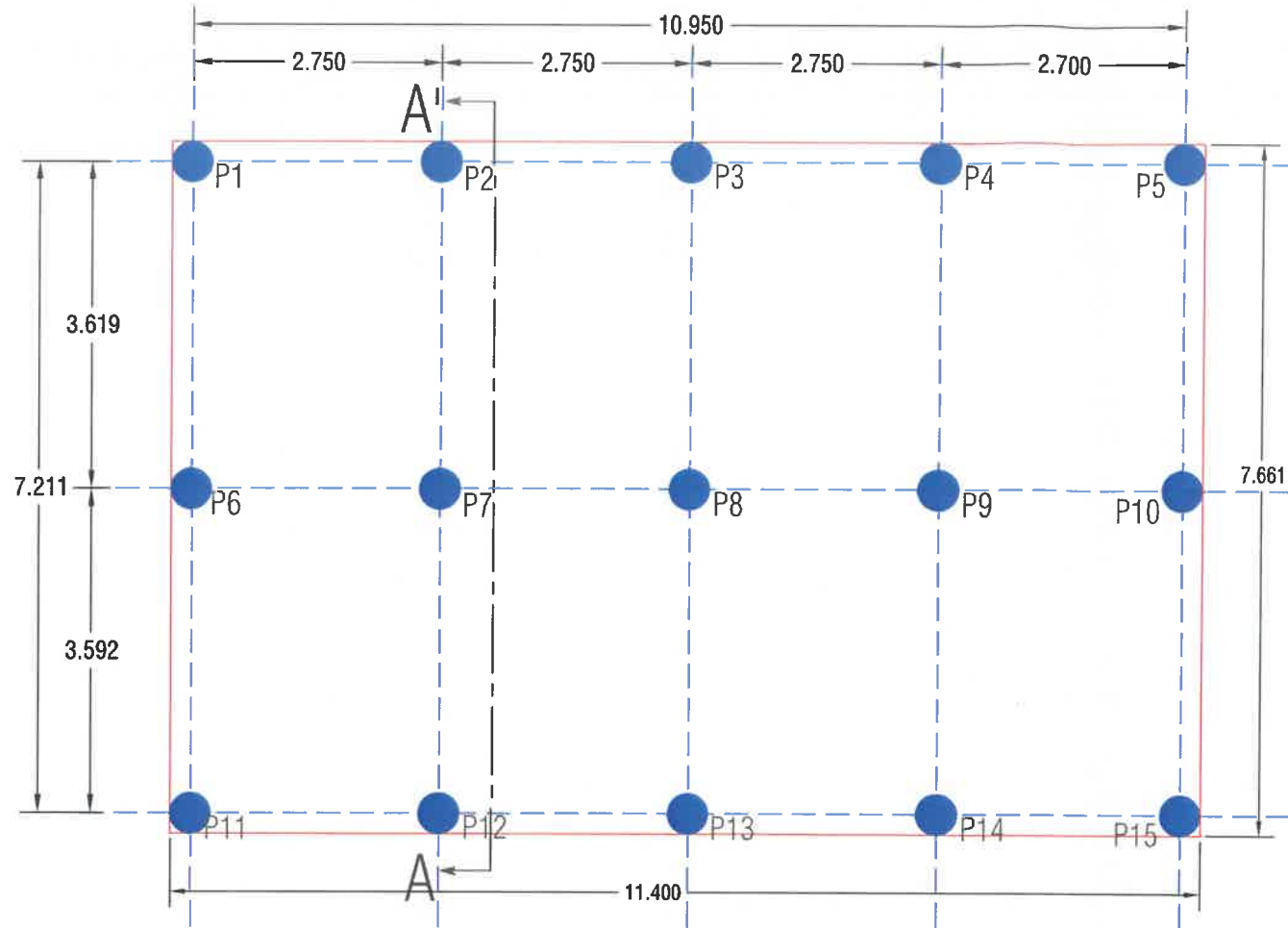
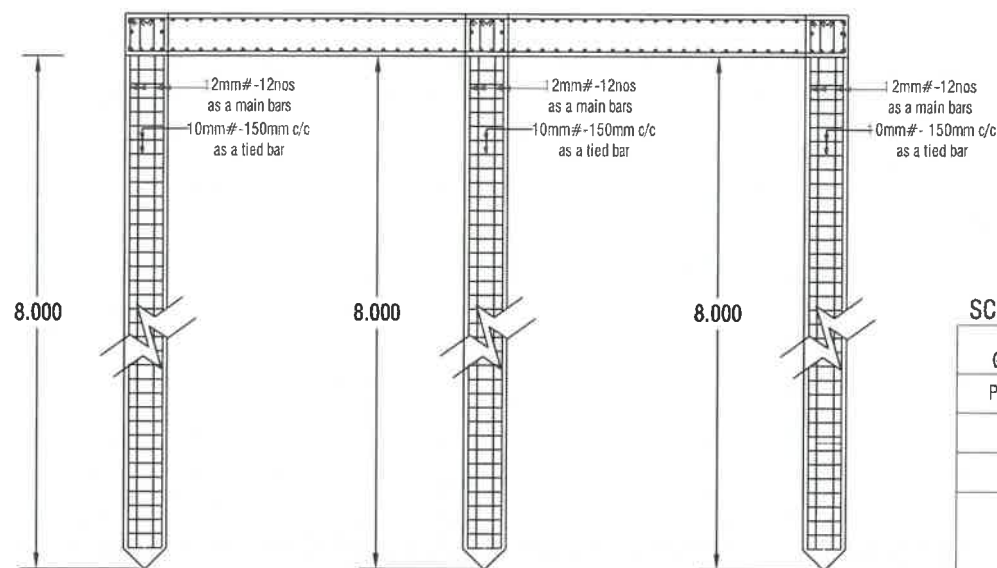
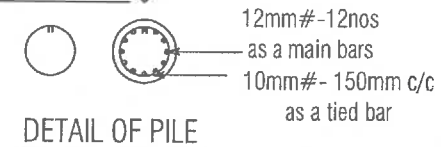
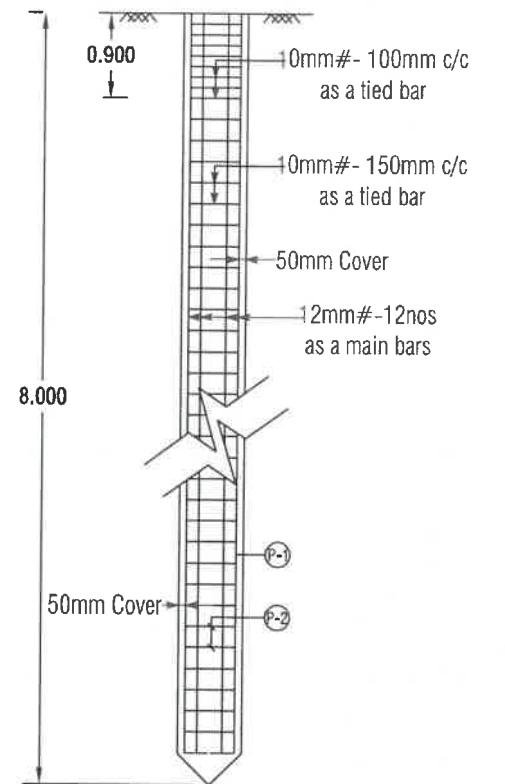


6



LAYOUT OF PILE FOUNDATION

BAR BENDING SCHEDULE					
Sr.No.	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.		9.1	12mm	144	P-1
2.		9.1	12mm	36	P-1
3.		1.30	10mm	825	P-2



SECTION AT AA'

SCHEDULE OF PILES

PILE Below GROUND LEVEL		
PILE Size (mm)	450mm $\phi$	450mm $\phi$
Main Steel	12,12mm#	12,12mm#
Ring	10mm#@150mm c/c	10mm#@150mm c/c
PILE NOS.	P1,P2,P3,P4,P5,P6, P10,P11,P12, P13,P14,P15	P7,P8,P9,

- NOTES:-
1. ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
  2. THIS DRAWING IS NOT TO SCALE.
  3. GRADE OF CONCRETE MDX:PILE: M-35, SLAB& BEAM: M-35
  4. USE AS T.M.T.-Fe-500 REINFORCEMENT HAVING ELONGATION MORE THAN 14.5% AND CONFORMING TO OTHER REQUIREMENTS OF IS-1786
  5. SCHEDULE OF REINFORCEMENT IS ONLY FOR GUIDANCE AND SHALL VERIFIED BEFORE CUTTING/BENDING BAR.
  6. CLEAR COVER TO ANY REINFORCEMENT:PILE=50mm, SLAB & BEAM=50mm
  7. LAP REQUIRED SHALL BE AS PER TABLE SHOWN.
  8. ALL LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% BARS TO BE LAPPED AT ANY GIVEN SECTION.
  9. LAP SPLICES SHALL BE PROVIDED ONLY IN THE CENTRAL HALF OF CLEAR PILE HEIGHT AND NOT WITHIN A JOINT OR WITHIN A DISTANCE OF 2d FROM FACE OF BEAM
  10. AS PER IRS SEISMIC CODE 2017 (ANNEX-B DUCTILE DETAILING), CIRCULAR LINKS SHALL HAVE 135° HOOK ENDS WITH AN EXTENSION OF 10 DIAMETER AT EACH END.
  11. THE FIRST LINK SHALL BE AT A DISTANCE NOT EXCEEDING 50MM FROM THE JOINT FACE.
  12. USE ORDINARY PORTLAND CEMENT 53 GRADE AS PER IS:12269-2013

TENDER DRAWING	PROOF CONSULTANT:	NOTICE OF NO OBJECTIONS FROM EMPLOYERS			
	PROOF CHECKED AND FOUND SUITABLE FOR EXECUTION PURPOSE: DATE:	DESIGNATION	REMARKS	DATE:	SIGN.
	TEAM LEADER	REPRESENTATIVE			

NO.	DATE	REVISIONS
R0	28-11-2019	

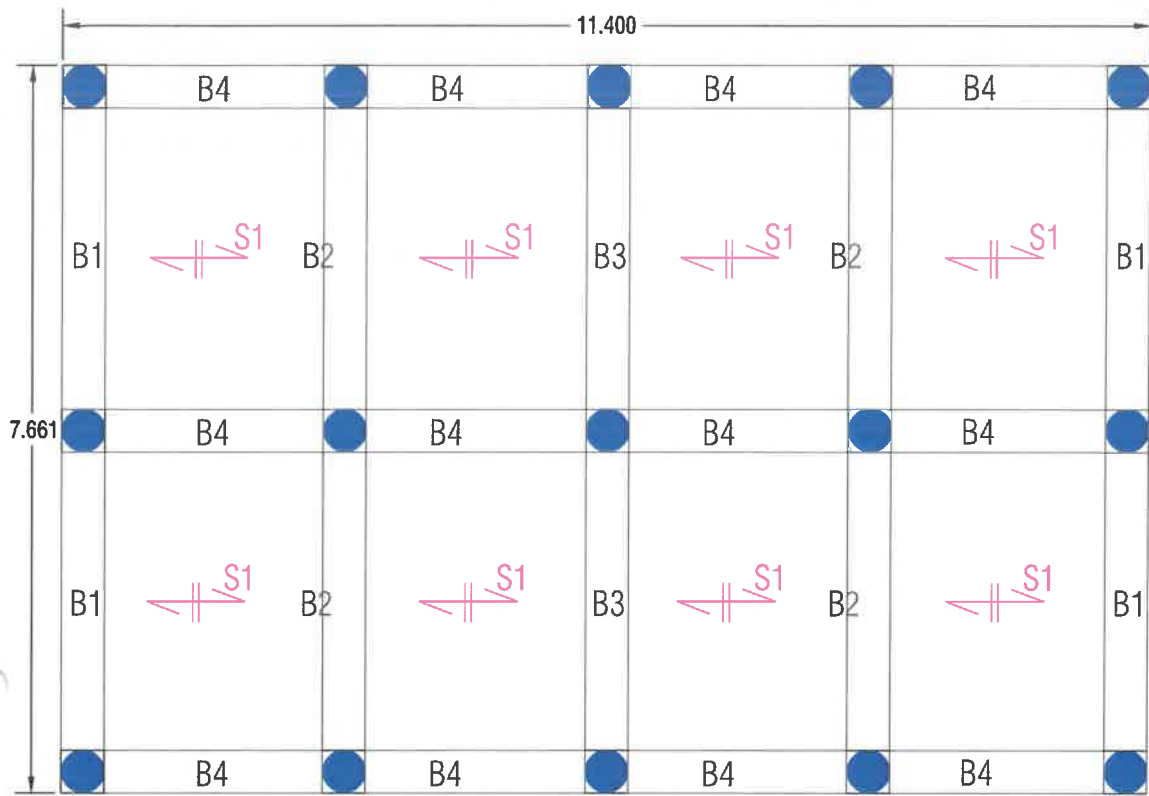
CLIENT: NATIONAL HIGH SPEED RAIL CORPORATION LTD.  
1001 to 1006, 10th FLOOR SWATISK UNIVERSAL,  
OPPOSITE CENTRAL MALL, DUMAS ROAD  
RUNDH SURAT, GUJARAT-395007

PROJECT: PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE AT R.S.NO-176,211, POST:NIYOL, TAL:PALSANA, DIST:SURAT

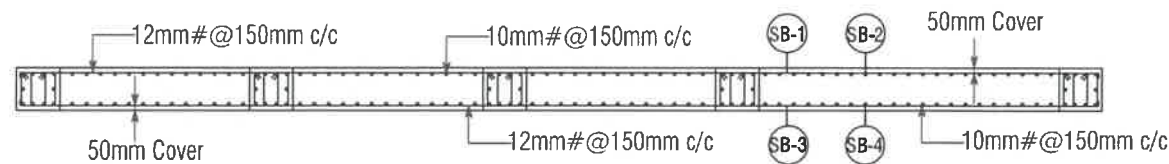
CONSULTANT: DR. Abul K. Desai Professor, AMD.SVNIT SURAT Ph.D.(STR.ENG.), I. I. B. Dr. S.A. Vasawala Professor, AMD.SVNIT SURAT Ph.D.(STR.ENG.). S.V.NATIONAL INSTITUTE OF TECHNOLOGY, APPLIED MECHANICS DEPT. SURAT-395007

DESIGN QUALITY ASSURANCE		
THE RESPONSIBILITY OF CONTROL, CHECK AND VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION AND FULL COMPLIANCE OF CONTRACT PROVISIONS IN RESPECT OF DESIGN ANALYSIS AND DRAWINGS RESTS WITH THE DESIGN CONSULTANTS.		
BY DESIGNER	BY CONTRACTOR	
DESIGNED BY	CHECKED BY	APPROVED BY
		ACCEPTED BY

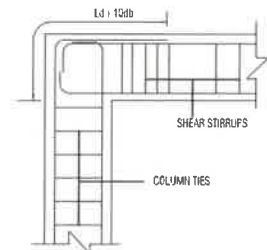
TITLE: DETAIL OF PILE FOUNDATION OF PORTION 2 PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE  
DRAWING NO: SVNIT\_19001\_03\_01  
SCALE: NOT TO SCALE  
DATE: 28-11-2019



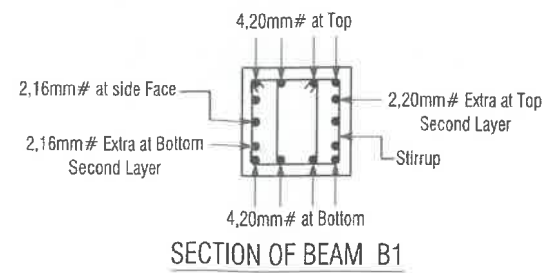
LAYOUT OF BEAM AND SLAB



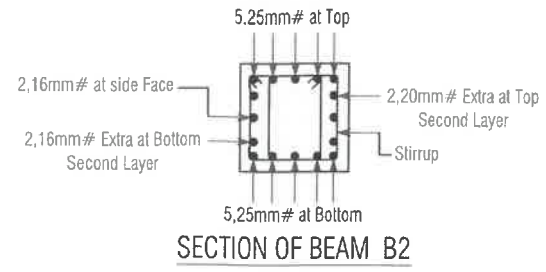
SECTION OF DECK SLAB



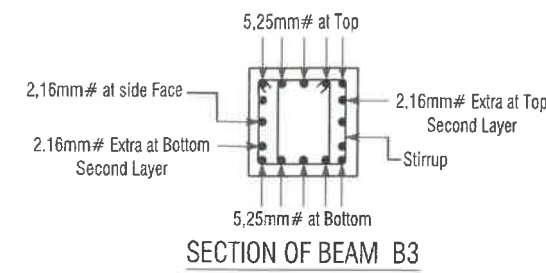
(a) TYPICAL DETAILS OF BEAM-COLUMN JUNCTION AT EXTERIOR PILE



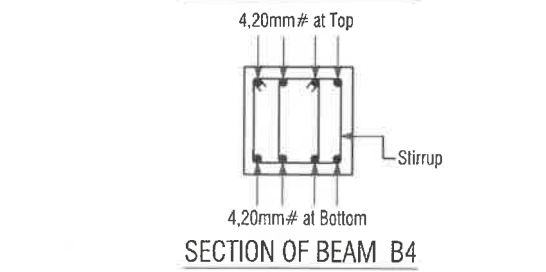
SECTION OF BEAM B1



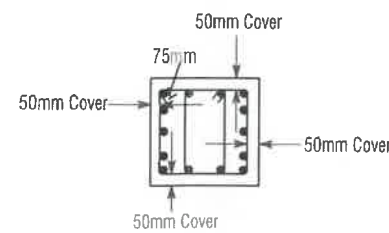
SECTION OF BEAM B2



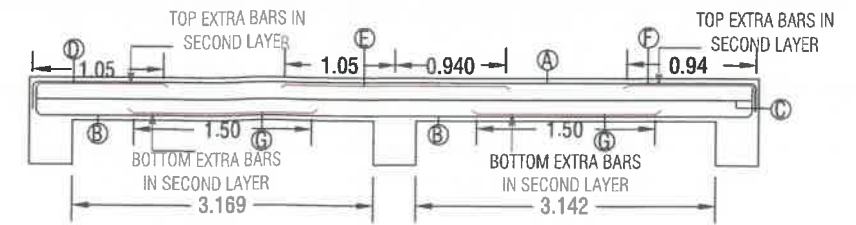
SECTION OF BEAM B3



SECTION OF BEAM B4



SCHEDULE OF COVERING



ARRANGEMENT OF EXTRA BARS FOR BEAMS

BAR BENDING SCHEDULE FOR SLAB

Sr.No.	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.		11.6	12mm	52	SB-1
2.		7.861	10mm	77	SB-2
3.		11.6	12mm	52	SB-3
4.		7.861	10mm	77	SB-4

BAR BENDING SCHEDULE FOR BEAMS

Sr.No.	Type	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.	B1		8.16	20mm	8	A
2.			8.16	20mm	8	B
3.			7.56	16mm	4	C
4.			1.42	20mm	4	D
5.			1.32	20mm	4	E
6.	B2		2.14	20mm	4	F
7.			1.64	16mm	8	G
8.			8.16	25mm	10	A
9.			8.16	25mm	10	B
10.			7.56	16mm	4	C
11.	B3		1.42	20mm	4	D
12.			1.32	20mm	4	E
13.			2.14	20mm	4	F
14.			1.64	16mm	8	G
15.			8.16	25mm	10	A
16.	B4		8.16	25mm	10	B
17.			7.56	16mm	4	C
18.			1.42	20mm	4	D
19.			1.32	14mm	4	E
20.			2.14	16mm	4	F
21.	B4		1.64	16mm	8	G
22.			13.04	20mm	12	A
23.			13.04	20mm	12	B
24.			12.3	16mm	6	C

BAR BENDING SCHEDULE FOR STIRRUPS

Sr.No.	SHAPE	LENGTH	DIA.	Nos
1.		1.600	10mm	725
		1.180	10mm	496
		1.280	10mm	229

THE LAP LENGTH FOR BAR FOR M35 CONCRETE

% OF STEEL LAPED	ANCHOR LENGTH	LAP LENGTH
≤ 25 %		52 ϕ
≤ 25 % TO 33 %	52 ϕ	61 ϕ
≤ 33 % TO 50 %		73 ϕ

Signature: / Sushil Kumar Chourasiya  
 Design Manager (Civil)  
 National High Speed Rail Corporation Limited  
 Surat / Surat.

NOTES:-

- ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
- THIS DRAWING IS NOT TO SCALE.
- GRADE OF CONCRETE MDX:PILE: M-35, SLAB& BEAM: M-35
- USE AS T.M.T.-Fe-500 REINFORCEMENT HAVING ELONGATION MORE THAN 14.5% AND CONFORMING TO OTHER REQUIREMENTS OF IS-1786
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- CLEAR COVER TO ANY REINFORCEMENT: SLAB & BEAM=50mm
- LAP REQUIRED SHALL BE AS PER TABLE SHOWN.
- ALL LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% BARS TO BE LAPPED AT ANY GIVEN SECTION.
- LAP SPLICES SHALL NOT BE PROVIDED WITHIN A JOINT OR WITHIN A DISTANCE OF 2d FROM FACE OF SUPPORT
- AS PER IRS SEISMIC CODE 2017 (ANNEX-B DUCTILE DETAILING),STIRRUPS SHALL HAVE 135° HOOK ENDS WITH AN EXTENSION OF 10 DIAMETER AT EACH END.
- THE FIRST LINK SHALL BE AT A DISTANCE NOT EXCEEDING 50MM FROM THE JOINT FACE.
- USE ORDINARY PORTLAND CEMENT 53 GRADE AS PER IS:12269-2013

SECHDULE OF BEAM

Sr.No.	BEAM	SIZE		TOP STEEL	TOP EXTRA			BOTTOM STEEL	BOTTOM EXTRA			SIDE FACE STEEL	4LEGGED STIRRUPS			REMARKS
		B	D		LEFT L/4	MID	RIGHT L/4		LEFT	MID L/3	RIGHT		LEFT L/4 @ DISTANCE	MID	RIGHT L/4 @ DISTANCE	
1	B1	450	450	4,20mm#	2,20mm#	----	2,20mm#	4,20mm#	----	2,16mm#	----	2,16mm#	10mm#@100mm c/c	10mm#@100mm c/c	10mm#@100mm c/c	
2	B2	450	450	5,25mm#	2,20mm#	----	2,20mm#	5,25mm#	----	2,16mm#	----	2,16mm#	10mm#@100mm c/c	10mm#@100mm c/c	10mm#@100mm c/c	
3	B3	450	450	5,25mm#	2,16mm#	----	2,16mm#	5,25mm#	----	2,16mm#	----	2,16mm#	10mm#@100mm c/c	10mm#@100mm c/c	10mm#@100mm c/c	
4	B4	450	450	4,20mm#	----	----	----	4,20mm#	----	----	----	2,16mm#	10mm#@100mm c/c	10mm#@100mm c/c	10mm#@100mm c/c	

TENDER DRAWING	NOTICE OF NO OBJECTIONS FROM EMPLOYERS			
	DESIGNATION	REMARKS	DATE:	SIGN.

CLIENT:  <b>NATIONAL HIGH SPEED RAIL CORPORATION LTD.</b> 1001 to 1006, 10 <sup>th</sup> FLOOR SWATISK UNIVERSAL, OPPOSITE CENTRAL MALL, DUMAS ROAD RUNDH SURAT, GUJARAT-395007	PROJECT: <b>PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE AT R.S.NO-176,211, POST:NIYOL, TAL:PALSANA, DIST.SURAT</b>	DR. Abul K. Desai Professor, AMD SVNIT SURAT Ph.D.(STR.ENG.),LL.B. DR. S.A. Vasamwala Professor, AMD SVNIT SURAT Ph.D.(STR.ENG.) S.V.NATIONAL INSTITUTE OF TECHNOLOGY, APPLIED MECHANICS DEPT. SURAT-395007	PROOF CONSULTANT: PROOF CHECKED AND FOUND SUITABLE FOR EXECUTION PURPOSE: DATE: TEAM LEADER: _____ REPRESENTATIVE: _____	DESIGN QUALITY ASSURANCE THE RESPONSIBILITY OF CONTROL CHECK AND VERIFICATION OF ACCURACY,CORRECTNESS,COMPLETENESS,INTEGRATION AND FULL COMPLIANCE OF CONTRACT PROVISIONS IN RESPECT OF DESIGN ANALYSIS AND DRAWINGS RESTS WITH THE DESIGN CONSULTANTS. BY DESIGNER: _____ BY CONTRACTOR: _____ CHECKED BY: _____ APPROVED BY: _____ ACCEPTED BY: _____	TITLE: DETAIL OF SLAB & BEAM OF PORTION 2 PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE DRAWING NO:SVNIT_19001_03_02 SCALE: NOT TO SCALE DATE: 28-11-2019
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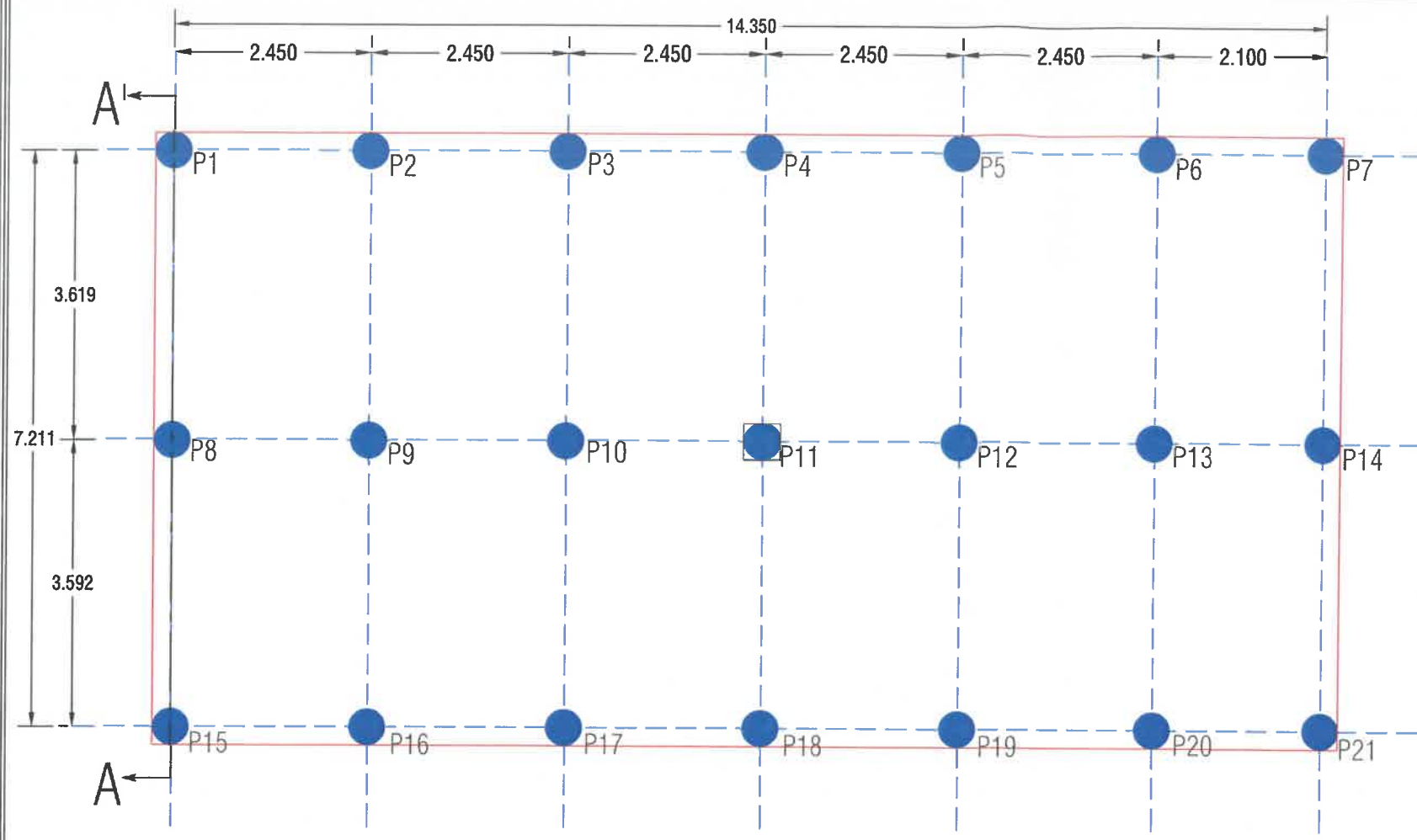
REVISIONS

RO	DATE	DESCRIPTION
	28-11-2019	

5

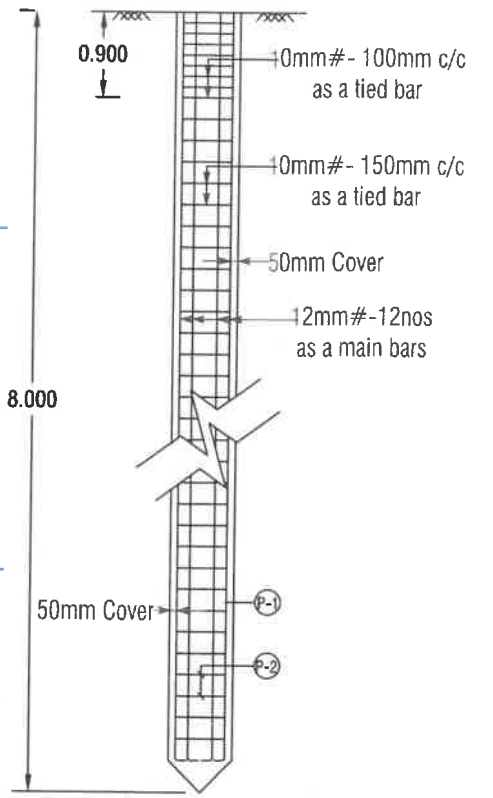
2/2

4

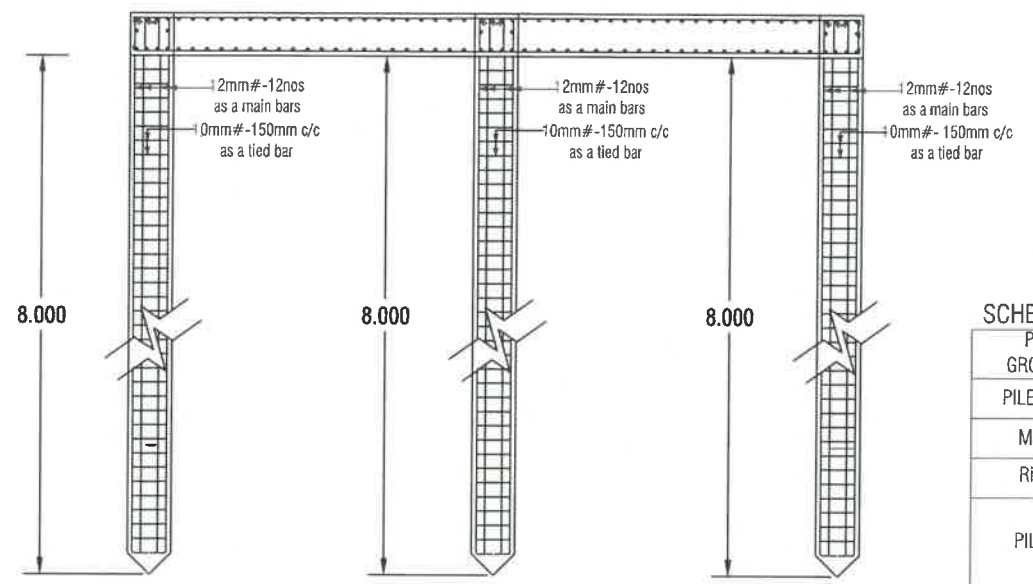


LAYOUT OF PILE FOUNDATION

BAR BENDING SCHEDULE						
Sr.No.	SHAPE	LENGTH	DIA.	Nos.	Bemarks	
1.		0.65	12mm	144	P-1	
2.		0.65	12mm	36	P-1	
3.		1.30	10mm	825	P-2	



DETAIL OF PILE



SECTION AT AA'

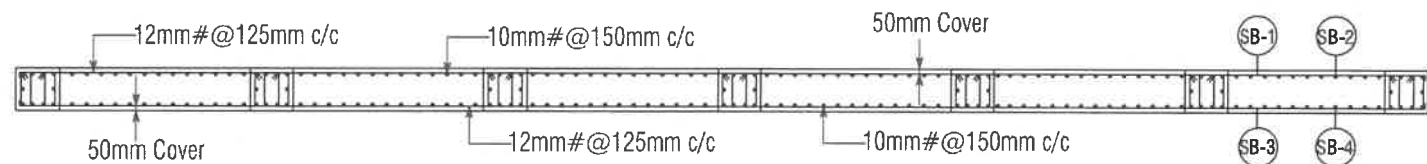
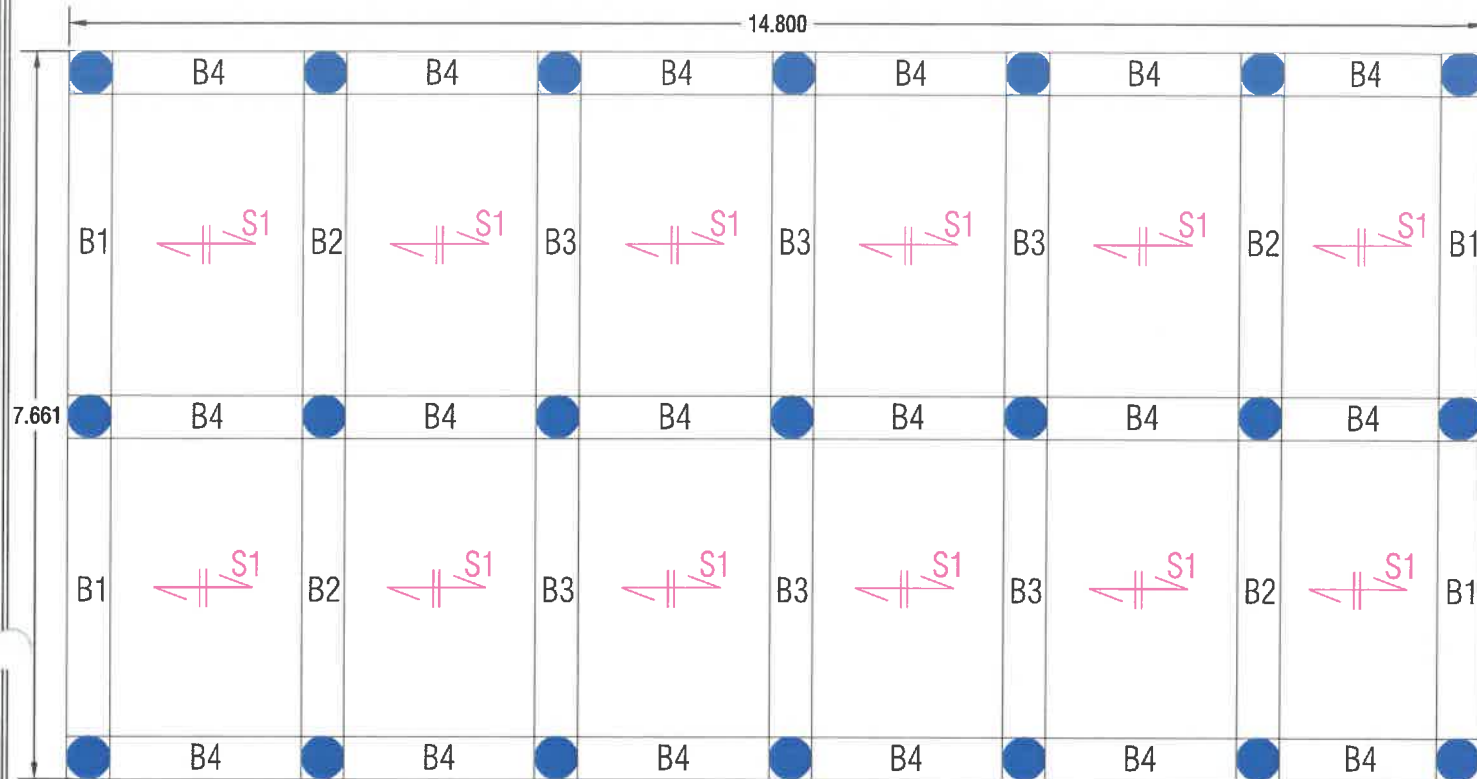
SCHEDULE OF PILES

PILE Below GROUND LEVEL		
PILE Size (mm)	450mm $\phi$	450mm $\phi$
Main Steel	12,12mm#	12,12mm#
Ring	10mm#@150mm c/c	10mm#@150mm c/c
PILE NOS.	P1,P2,P3,P4,P5,P6,P7,P8,P14,P15,P16,P17,P18,P19,P20,P21	P9,P10,P11,P12,P13

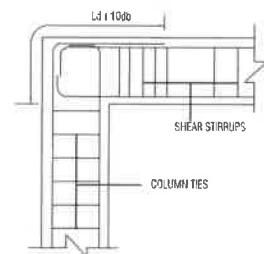
- NOTES:-
1. ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
  2. THIS DRAWING IS NOT TO SCALE.
  3. GRADE OF CONCRETE MIX: PILE= M-35, SLAB & BEAM= M-35
  4. USE AS T.M.T.-Fe-500 REINFORCEMENT HAVING ELONGATION MORE THAN 14.5% AND CONFORMING TO OTHER REQUIREMENTS OF IS-1786
  5. SCHEDULE OF REINFORCEMENT IS ONLY FOR GUIDANCE AND SHALL VERIFIED BEFORE CUTTING/BENDING BAR.
  6. CLEAR COVER TO ANY REINFORCEMENT: PILE=50mm, SLAB & BEAM=50mm
  7. LAP REQUIRED SHALL BE AS PER TABLE SHOWN.
  8. ALL LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% BARS TO BE LAPPED AT ANY GIVEN SECTION.
  9. LAP SPLICES SHALL BE PROVIDED ONLY IN THE CENTRAL HALF OF CLEAR PILE HEIGHT AND NOT WITHIN A JOINT OR WITHIN A DISTANCE OF 2d FROM FACE OF BEAM
  10. AS PER IRS SEISMIC CODE 2017 (ANNEX-B DUCTILE DETAILING), CIRCULAR LINKS SHALL HAVE 135° HOOK ENDS WITH AN EXTENSION OF 10 DIAMETER AT EACH END.
  11. THE FIRST LINK SHALL BE AT A DISTANCE NOT EXCEEDING 50MM FROM THE JOINT FACE.
  12. USE ORDINARY PORTLAND CEMENT 53 GRADE AS PER IS:12269-2013

Pratik Kumar Chourasiya / Chief Engineer (Civil)  
 National High Speed Rail Corporation Limited  
 Surat / Surat.

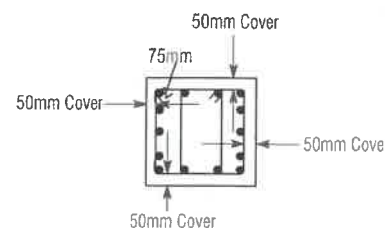
<b>TENDER DRAWING</b> PROOF CHECKED AND FOUND SUITABLE FOR EXECUTION PURPOSE: DATE: _____ TEAM LEADER: _____ REPRESENTATIVE: _____	PROOF CONSULTANT: DESIGNATION: _____ REMARKS: _____ DATE: _____ SIGN: _____	
	NOTICE OF NO OBJECTIONS FROM EMPLOYERS DESIGNATION: _____ REMARKS: _____ DATE: _____ SIGN: _____	
CLIENT:  <b>NATIONAL HIGH SPEED RAIL CORPORATION LTD.</b> 1001 to 1005, 10 <sup>th</sup> FLOOR SWATISK UNIVERSAL, OPPOSITE CENTRAL MALL, DUMAS ROAD RUNDH SURAT, GUJARAT-395007	PROJECT: <b>PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE AT R.S.NO-176,211, POST:NIYOL, TAL:PALSANA, DIST: SURAT</b>	CONSULTANT:  <b>S.V.NATIONAL INSTITUTE OF TECHNOLOGY,</b> APPLIED MECHANICS DEPT. SURAT-395007
REVISIONS RD 28-11-2019	DESIGN QUALITY ASSURANCE THE RESPONSIBILITY OF CONTROL, CHECK AND VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION AND FULL COMPLIANCE OF CONTRACT PROVISIONS IN RESPECT OF DESIGN ANALYSIS AND DRAWINGS RESTS WITH THE DESIGN CONSULTANTS. BY DESIGNER: _____ DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____ BY CONTRACTOR: _____ ACCEPTED BY: _____	TITLE: DETAIL OF PILE FOUNDATION OF PORTION:3 PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE DRAWING NO: <b>SVNIT_19001_04_01</b> SCALE: NOT TO SCALE DATE: 28-11-2019 <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">1/2</div>



SECTION OF DECK SLAB



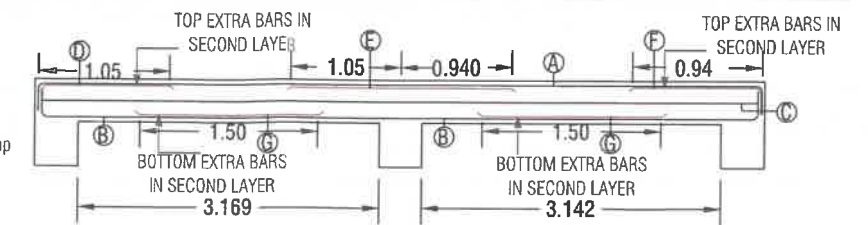
(a) TYPICAL DETAILS OF BEAM-COLUMN JUNCTION AT EXTERIOR PILE



SCHEDULE OF COVERING

SECHDULE OF BEAM

Sr.No.	BEAM	SIZE		TOP STEEL	TOP EXTRA			BOTTOM STEEL	BOTTOM EXTRA			SIDE FACE STEEL	4LEGGED STIRRUPS			REMARKS
		B	D		LEFT L/4	MID	RIGHT L/4		LEFT	MID L/3	RIGHT		LEFT L/4 @ DISTANCE	MID	RIGHT L/4 @ DISTANCE	
1	B1	450	450	4,20mm#	2,20mm#	----	2,20mm#	4,20mm#	----	2,16mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
2	B2	450	450	5,25mm#	2,20mm#	----	2,20mm#	5,25mm#	----	2,16mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
3	B3	450	450	6,25mm#	2,25mm#	----	2,25mm#	6,25mm#	----	2,20mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
4	B4	450	450	4,20mm#	----	----	----	4,20mm#	----	----	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	



ARRANGEMENT OF EXTRA BARS FOR BEAMS

BAR BENDING SCHEDULE FOR SLAB

Sr.No.	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.	0.15 15.32 0.15	15.62	12mm	62	SB-1
2.	0.15 7.561 0.15	7.861	10mm	100	SB-2
3.	0.15 15.32 0.15	15.62	12mm	62	SB-3
4.	0.15 7.561 0.15	7.861	10mm	100	SB-4

BAR BENDING SCHEDULE FOR BEAMS

Sr.No.	Type	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.	B1	0.3 7.56 0.3	8.16	20mm	8	A
2.		0.3 7.56 0.3	8.16	20mm	8	B
3.		7.56	7.86	16mm	4	C
4.		0.3 1.05 0.3	1.42	20mm	4	D
5.	B2	0.3 0.95 0.3	1.32	20mm	4	E
6.		0.3 2.00 0.3	2.14	20mm	4	F
7.		0.3 1.50 0.3	1.64	16mm	8	G
8.		0.3 7.56 0.3	8.16	25mm	10	A
9.	B3	0.3 7.56 0.3	8.16	25mm	18	B
10.		0.3 7.56 0.3	8.16	25mm	18	B
11.		7.56	7.56	16mm	4	C
12.		0.3 1.05 0.3	1.42	20mm	4	D
13.	B4	0.3 0.95 0.3	1.32	20mm	4	E
14.		0.3 2.00 0.3	2.14	20mm	4	F
15.		0.3 1.50 0.3	1.64	16mm	8	G
16.		0.3 7.56 0.3	8.16	25mm	18	A
17.	B3	0.3 7.56 0.3	8.16	25mm	18	B
18.		0.3 7.56 0.3	8.16	25mm	18	B
19.		7.56	7.56	16mm	4	C
20.		0.3 1.05 0.3	1.42	25mm	6	D
21.	B4	0.3 0.95 0.2	1.32	25mm	6	E
22.		0.3 2.00 0.3	2.14	25mm	6	F
23.		0.3 1.50 0.3	1.64	25mm	12	G
24.		0.3 15.74 0.3	16.34	20mm	12	A
25.	B4	0.3 15.74 0.3	16.34	20mm	12	B
26.		15.53	15.53	16mm	6	C

BAR BENDING SCHEDULE FOR STIRRUPS

Sr.No.	SHAPE	LENGTH	DIA.	Nos.
1.	0.1 1.600	1.600	10mm	981
2.	0.1 1.180	1.180	10mm	596
3.	0.1 1.280	1.280	10mm	154
4.	0.1 1.360	1.360	10mm	230

THE LAP LENGTH FOR BAR FOR M35 CONCRETE

% OF STEEL LAPED	ANCHOR LENGTH	LAP LENGTH
≤ 25 %		52 φ
≤ 25 % TO 33 %	52 φ	61 φ
≤ 33 % TO 50 %		73 φ

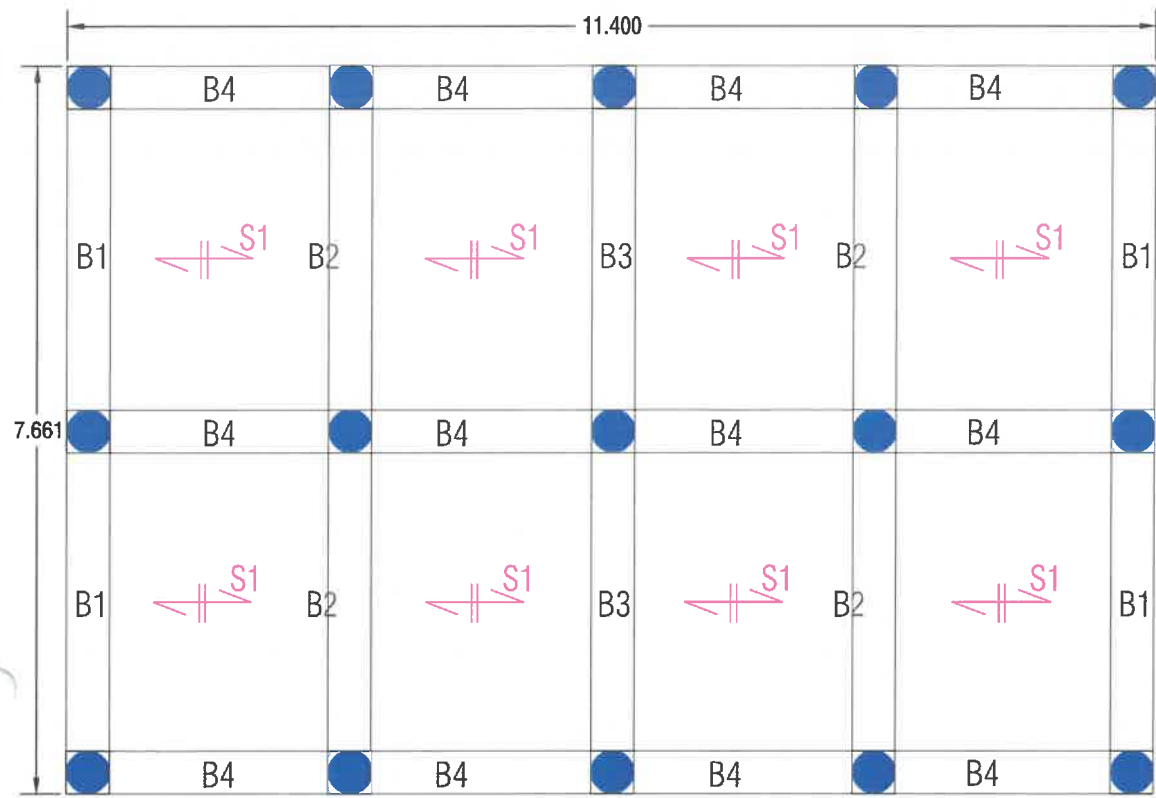
NOTES:-

- ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
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- USE AS T.M.T.-Fe-500 REINFORCEMENT HAVING ELONGATION MORE THAN 14.5% AND CONFORMING TO OTHER REQUIREMENTS OF IS-1786
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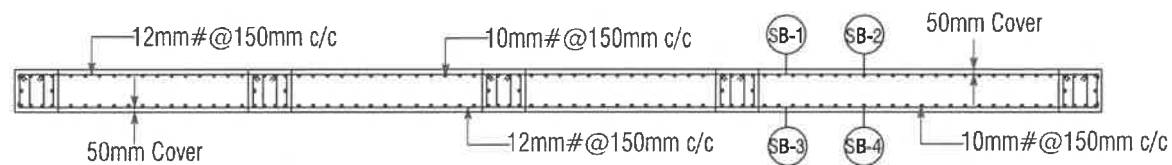
सतीश कुमार चौरसिया / Satish Kumar Chouraslya  
 उप मुख्य परियोजना प्रबंधक (जनपद) / Dy. Chief Project Manager (Civil)  
 राष्ट्रीय हाईस्पीड रेल निगम लिमिटेड  
 National High Speed Rail Corporation Limited  
 सुरत / Surat.

DESIGNATION	NOTICE OF NO OBJECTIONS FROM EMPLOYERS		DATE:	SIGN.
	REMARKS			

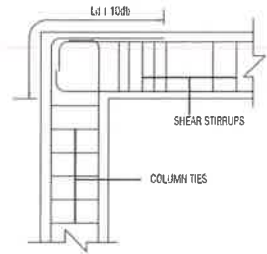
CLIENT:  <b>NATIONAL HIGH SPEED RAIL CORPORATION LTD.</b> 1001 to 1006, 10 <sup>th</sup> FLOOR SWATISK UNIVERSAL, OPPOSITE CENTRAL MALL,DUMAS ROAD RUNDH SURAT,GUJARAT-395007	PROJECT: <b>PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE AT R.S.NO-176,211, POST:NIYOL, TAL:PALSANA,DIST:SURAT</b>	PROOF CONSULTANT: DR. Atul K. Desai Professor, AMD,SVNIT SURAT Ph.D.(STR.ENG.),LL.B. DR. S.A. Vasanthwala Professor, AMD,SVNIT SURAT Ph.D.(STR.ENG.) S.V.NATIONAL INSTITUTE OF TECHNOLOGY, APPLIED MECHANICS DEPT. SURAT-395007	DESIGN QUALITY ASSURANCE THE RESPONSIBILITY OF CONTROL, CHECK AND VERIFICATION OF ACCURACY,CORRECTNESS,COMPLETENESS,INTEGRATION AND FULL COMPLIANCE OF CONTRACT PROVISIONS IN RESPECT OF DESIGN ANALYSIS AND DRAWINGS RESTS WITH THE DESIGN CONSULTANTS. BY DESIGNER DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____ BY CONTRACTOR ACCEPTED BY: _____	TITLE: DETAIL OF SLAB & BEAM OF PORTION:3 PROTECTION STRUCTURE OF HYDROCARBON GAS PIPE DRAWING NO: SVNIT_19001_04_02 SCALE: NOT TO SCALE DATE: 26-11-2019



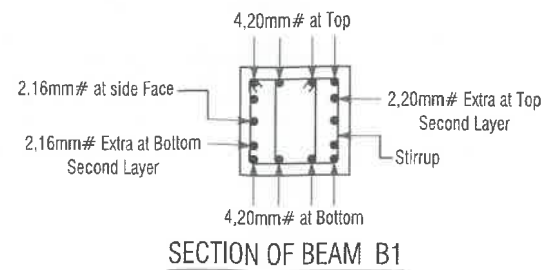
LAYOUT OF BEAM AND SLAB



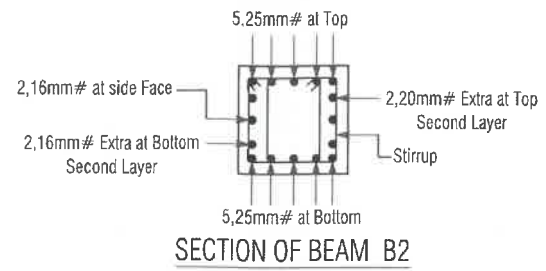
SECTION OF DECK SLAB



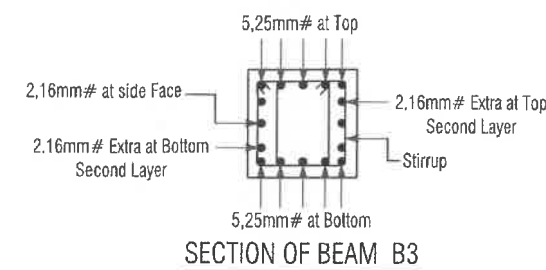
(a) TYPICAL DETAILS OF BEAM-COLUMN JUNCTION AT EXTERIOR PILE



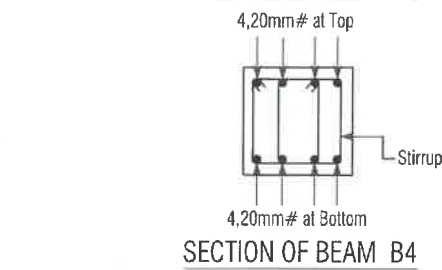
SECTION OF BEAM B1



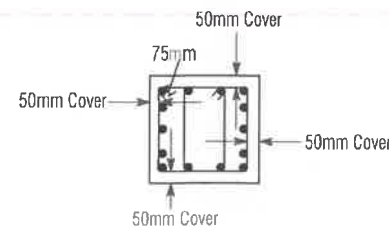
SECTION OF BEAM B2



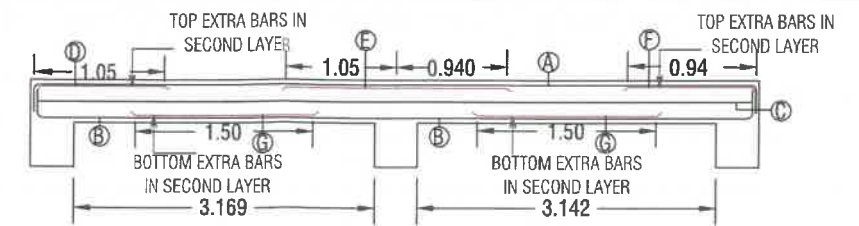
SECTION OF BEAM B3



SECTION OF BEAM B4



SCHEDULE OF COVERING



ARRANGEMENT OF EXTRA BARS FOR BEAMS

BAR BENDING SCHEDULE FOR SLAB

Sr.No.	SHAPE	LENGTH	DIA	Nos.	Bemarks
1.		11.6	12mm	52	SB-1
2.		7.861	10mm	77	SB-2
3.		11.6	12mm	52	SB-3
4.		7.861	10mm	77	SB-4

BAR BENDING SCHEDULE FOR BEAMS

Sr.No.	Type	SHAPE	LENGTH	DIA.	Nos.	Bemarks
1.	B1		8.16	20mm	8	A
2.			8.16	20mm	8	B
3.			7.56	16mm	4	C
4.			1.42	20mm	4	D
5.			1.32	20mm	4	E
6.			2.14	20mm	4	F
7.	B2		1.64	16mm	8	G
8.			8.16	25mm	10	A
9.			8.16	25mm	10	B
10.			7.56	16mm	4	C
11.			1.42	20mm	4	D
12.			1.32	20mm	4	E
13.	B3		2.14	20mm	4	F
14.			1.64	16mm	8	G
15.			8.16	25mm	10	A
16.			8.16	25mm	10	B
17.			7.56	16mm	4	C
18.			1.42	16mm	4	D
19.	B4		1.32	14mm	4	E
20.			2.14	16mm	4	F
21.			1.64	16mm	8	G
22.			13.04	20mm	12	A
23.			13.04	20mm	12	B
24.			12.13	16mm	6	C

BAR BENDING SCHEDULE FOR STIRRUPS

Sr.No.	SHAPE	LENGTH	DIA.	Nos.
1.		1.600	10mm	725
		1.180	10mm	496
		1.280	10mm	229

THE LAP LENGTH FOR BAR FOR M35 CONCRETE

% OF STEEL LAPED	ANCHOR LENGTH	LAP LENGTH
≤ 25 %	52 φ	52 φ
≤ 25 % TO 33 %		61 φ
≤ 33 % TO 50 %		73 φ

NOTES:-

- ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
- THIS DRAWING IS NOT TO SCALE.
- GRADE OF CONCRETE MIX: PILE: M-35, SLAB & BEAM: M-35
- USE AS T.M.T.-Fe-500 REINFORCEMENT HAVING ELONGATION MORE THAN 14.5% AND CONFORMING TO OTHER REQUIREMENTS OF IS-1786
- SCHEDULE OF REINFORCEMENT IS ONLY FOR GUIDANCE AND SHALL VERIFIED BEFORE CUTTING/BENDING BAR.
- CLEAR COVER TO ANY REINFORCEMENT: SLAB & BEAM=50mm
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SECHDULE OF BEAM

Sr.No.	BEAM	SIZE		TOP STEEL	TOP EXTRA			BOTTOM STEEL	BOTTOM EXTRA			SIDE FACE STEEL	4LEGGED STIRRUPS			REMARKS
		B	D		LEFT L/4	MID	RIGHT L/4		LEFT	MID L/3	RIGHT		LEFT L/4 @ DISTANCE	MID	RIGHT L/4 @ DISTANCE	
1	B1	450	450	4,20mm#	2,20mm#	----	2,20mm#	4,20mm#	----	2,16mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
2	B2	450	450	5,25mm#	2,20mm#	----	2,20mm#	5,25mm#	----	2,16mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
3	B3	450	450	5,25mm#	2,16mm#	----	2,16mm#	5,25mm#	----	2,16mm#	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	
4	B4	450	450	4,20mm#	----	----	----	4,20mm#	----	----	----	2,16mm#	10mm# @ 100mm c/c	10mm# @ 100mm c/c	10mm# @ 100mm c/c	

TENDER DRAWING	NOTICE OF NO OBJECTIONS FROM EMPLOYERS			
	DESIGNATION	REMARKS	DATE:	SIGN.

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REVISIONS

NO	DATE	DESCRIPTION
RO	28-11-2019	