[illegible]

OPERATION SCHEDULE FOR RAILWAY SPAN:

1. TRACK SHALL BE PROTECTED SUITABLY DURING THE COMPLETION OF BRIDGE FOR SAFETY OF RUNNING TRAIN.
2. ADEQUATE MEASURES SHALL BE TAKEN AT SITE DURING SAFETY FOR WORKING OF OVERHEAD WIRE, EQUIPMENTS, TRAFFIC ETC.
3. FOR SHEDDING OF THE WAFFER AND EXHAUSTING EQUIPMENTS, OVERCROW MAY BE CONSIDERED AS NECESSARY RULES.
4. FOR LAUNCHING OF GIRDERS ON RAILWAY TRACKS, A SUFFICIENT BLOCK SHALL BE TAKEN WITH ADEQUATE SIGN SIGNAL.
5. DETAILED STRUCTURAL DRAWINGS OF THE JOB SHALL BE APPROVED BY COMPETENT AUTHORITY.

8. CONSTRUCTION REQUIREMENTS:
(a) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(b) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(c) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(d) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
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(i) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(j) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(k) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(l) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(m) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(n) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(o) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(p) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(q) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(r) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(s) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(t) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(u) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(v) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(w) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(x) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(y) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.
(z) CONSTRUCTION OF THE RAILROADS MUST BE COMPLETED BY THE END OF 1992.

SAFETY PRECAUTIONS FOR PROPOSED SITE:

1. TRAIL HEADS SHOULD BE PROTECTED BY SUITABLE ARRANGEMENTS (E.G. BUILT) THE CONSTRUCTION OF BARRIERS FOR SAFETY OF MOTORIST TRAFFIC.
2. ADEQUATE WARNING SHOULD BE GIVEN AT SITE TO AVOID SAFETY FOR WORKING MEMBERS. TRAFFIC SHOULD BE STOPPED AT TRAFFIC SIGNALS.
3. TRAFFIC STOPPED MUST BE IN A SUFFICIENTLY SAFE PLACE TO BE IMPROVED BEFORE TAKING UP THE EXECUTION OF WORK WITH THE APPROVAL OF DEVELOPMENT, ROADWORKER IN CHARGE.
4. REPRESENTATIVE OF TELECOM / SIGNALING DEPARTMENT SHOULD BE AVAILABLE AT SITE DURING EXECUTION OF THE WORK OF REPAIRS/TELECOM CABLES.

SAFETY NOTES

1. TEST STAFF + CONSTRUCTION SHOULD WEAR HELMETS, TEST ROOM NORMAL CLOTHING, & RAINLITE, TO BE SURE OF WELL-ADVANCED BEFORE EXECUTION WORK.
2. BEFORE PRE-EXECUTION SHOULD BE CAUTIONED BY RAILWAY BOARD LATER 3000-TESTS-RAILS, BY TEST DATED 20-04-03 SHOULD BE FOLLOWED BY THE TEST & TEST SHOULD BE DISREGARDED. A FLAT PILEFILL 170 YD LASH WILL BE IMPROVED CONTRACT.
3. CABLE TO BE PROTECTED BY EXECUTING DEPARTMENT DURING EXECUTION OF THE RAILWAY BOARD.
4. MAINTAIN LOGGING SHOULD BE DONE FOR OUR CREATION.

TECHNICAL DEPARTMENT

LATITUDE/LONGITUDE	- 44.8343N / 122.904W
RAIL-LEVEL	- LVL 1, 100' 00"
FORMATION/TYPE OF APPROACHES	- LVL 1, 100' 00"
DEEP LEVEL	- LVL 100' 00"
VERTICAL CLEARANCE	- 4444' 00"
STANDARD OF LENDING	- SLABS OF CLAR 4444' 00" POUTY/THICKNESS OF PAVING 4444' 00" OF GRADE
TYPE OF BRIDGE STRUCTURE	- COMPOSITE TIE/SLAB, GRADE
TYPE OF BEARING	- POT-TYPE / CLAR 4444' 00"
TYPE OF STRUCTURE	- R/C
TYPE OF FORMATION/TYPE	- OPEN ROADWAY
DEBRIS/ROCK	- ROCK 4444'
WIND DIRECTION	- EAST WIND FLEED 4444'
CLEAR-ROAD TO RE-APPROPRIATE	- 4444'

SOIL DESCRIPTION	SOIL CLASSIFICATION
FILL/ORG	-

1		VERY DENSE GRATING MARGINAL SCALE INTEGRATED ROADS	R3
2		NO REGULAR WEAR GRATING AND SLIGHTLY WEATHERED ROADS	HMB

FOUNDED 5.5' TO 10' B.C. = 10' 0" 0"		VERY POOR TO MODERATELY WEAR GRAYISH-BROWN WEATHERED ROCK	HM
		VERY POOR TO MODERATELY STRONG GRAYISH-BROWN	MF

1		WEATHERED ROCK	
2		POOR TO MODERATELY STRONG GRAVELLY TO SLIGHTLY WEATHERED ROCK	FIRM

GR. LVL. 113.265

UNIT 1 (2)		DOE
DOE DECK/FLOOR	DOE	DOE
FILLING	-	-
VERY DENSE GRAVEL	DOE	DOE

	DISINTEGRATED ROCK	LOW
	DISCOVERY OF GRAVELLY WEATHERED ROCK	

VERY POOR RGD MODERATELY WEAR GRAVELLY HEAVY WEATHERED ROCK	100%
VERY POOR RGD MODERATELY STRONG GRAVELLY CLAYEY	0%

  	WEATHERED ROCK	FMR
	POOR TO MODERATELY STRONG GRAVELLY-CLAYEY WEATHERED ROCK	



KEYSTONE INFRASTRUCTURE ASSOCIATES	DEPUTY GENERAL MANAGER (P) GUDC
---------------------------------------	------------------------------------

DRG SUBMITTED BY: KEYSTONE INFRASTRUCTURE

CLIENT : GUJARAT URBAN DEVELOPMENT COMPANY LIMITED
 WESTERN RAILWAY
 DIVISION : BHAVNAGAR SECTION : JIV-VRI

NAME OF PROJECT: CONSTRUCTION OF ROB IN LIEU OF LC-19B AT RLY. KM. 16+2.3 BETWEEN KHAJADIYA JN. AND AMBULI STATION FOR GUJARAT URBAN

DEVELOPMENT COMPANY LTD.

SCALE AS SHOWN

GENERAL ARRANGEMENT DRAWING

CEB-009	BHAWESH KUMAR JHA Digitally signed by BHAWESH KUMAR JHA Date: 2025.07.18 13:50:18 +05'30'
	TANU GUPTA Digitally signed by TANU GUPTA

Raviranjana Ramuday Sharma Digitally signed by Raviranjana Ramuday Sharma
Date: 2025.07.26 19:09:32 +05'30'

Date: 2023-04-19 10:52:52 +05'57'
 MAMTSH MALIK Digitally signed by KANAKSINGHAR MEENA
 Date: 2023-04-19 10:52:54 +05'57'

GR-2023-077	KARANDESH KUMAR MEENA Digitally signed by KARANDESH KUMAR MEENA Date:2023.04.28 09:35:15 +05'30'
GR-2023-077	PRADEEP KUMAR Digitally signed by PRADEEP KUMAR Date:2023.04.28 20:15:15 +05'30'

CHATURAM GARUDA Digitally signed by CHATURAM GARUDA
Date: 2023.03.15 12:29:43 +05'30'

SHRI KSHINAR CHHOTALAI MODI Digitally signed by
Date: 2023.03.15 12:29:43 +05'30'

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ASDH-AG-017	RUDENDER KUMAR VERMA Digitally signed by RUDENDER KUMAR VERMA Date: 2020.09.16 09:45:07 Manspur Prithupuri Goswami Digitally signed by Manspur Prithupuri Goswami
SH-PRST-AG-017	

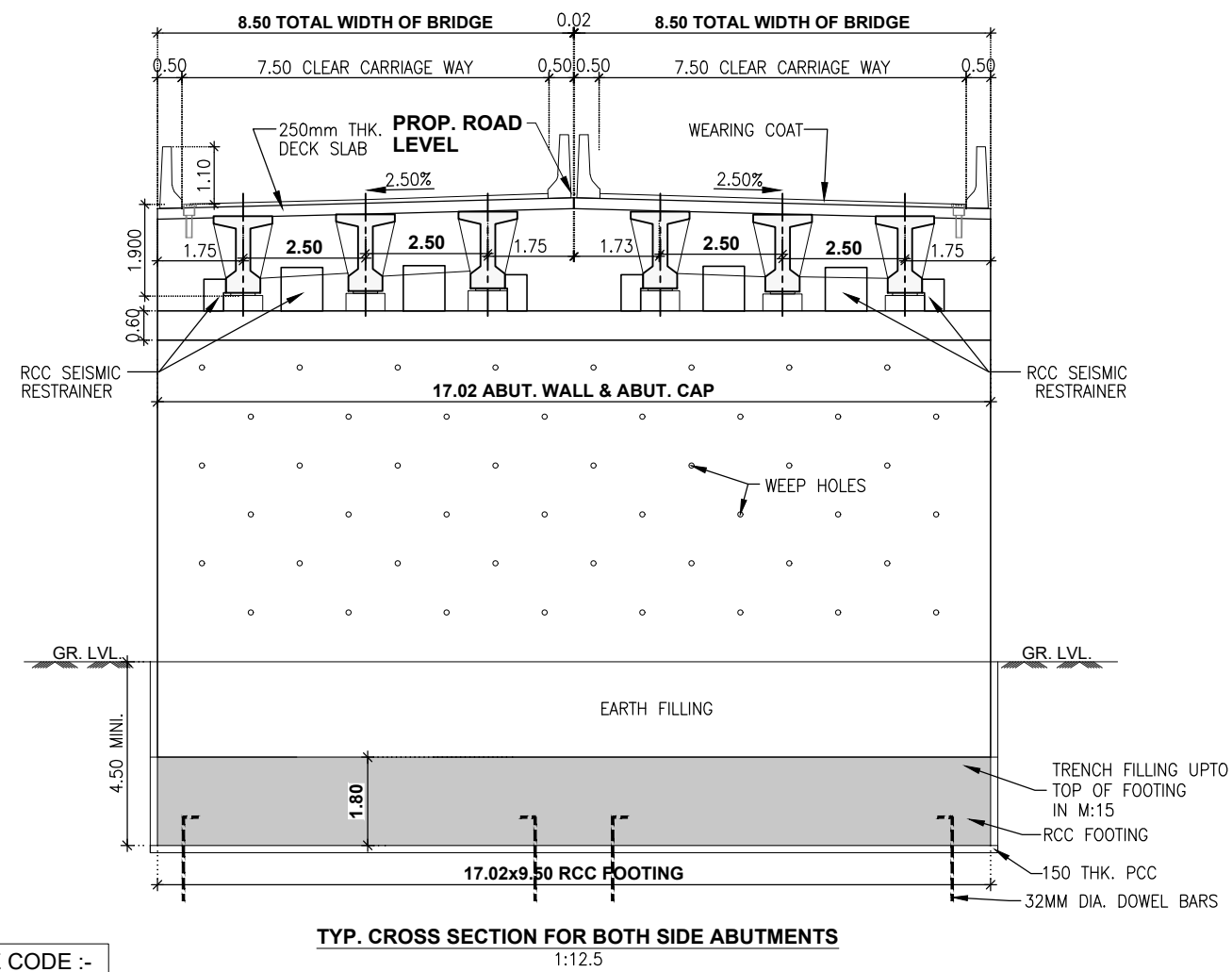
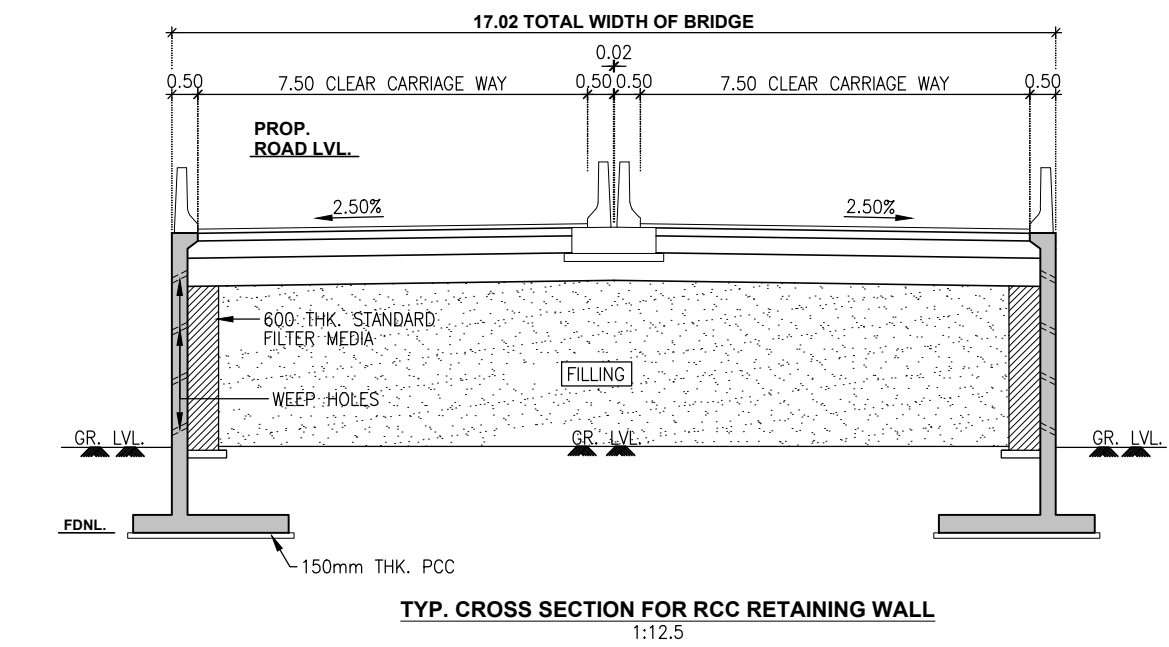
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W-2852-2009 RANA SAGAR DIPAKKUMAR Digitally signed by RANA SAGAR DIPAKKUMAR
Date: 2025.07.25 13:02:57 +05'30'

DRM-EVP-e-1600 PCE-e-32846-DRM/6-D

W-120-3-1-2025

TYP. CROSS SECTION FOR RAILWAY SPAN
1:125



C/L OF BEARING

C/L OF BEARING

STEEL COMPOSITE GIRDER-TYPE SUPER STRUCTURE

0.64 1.00

PSC SUPER

1.50

3.30 PIER CAP

1.50 PIER

RCC PIER

GR. LVL.

EARTH-FILLING

GR. LVL.

EARTH-FILLING

4.50 MIN.

TRENCH FILLING UP TO TOP OF FOOTING IN M:15

RCC FOOTING

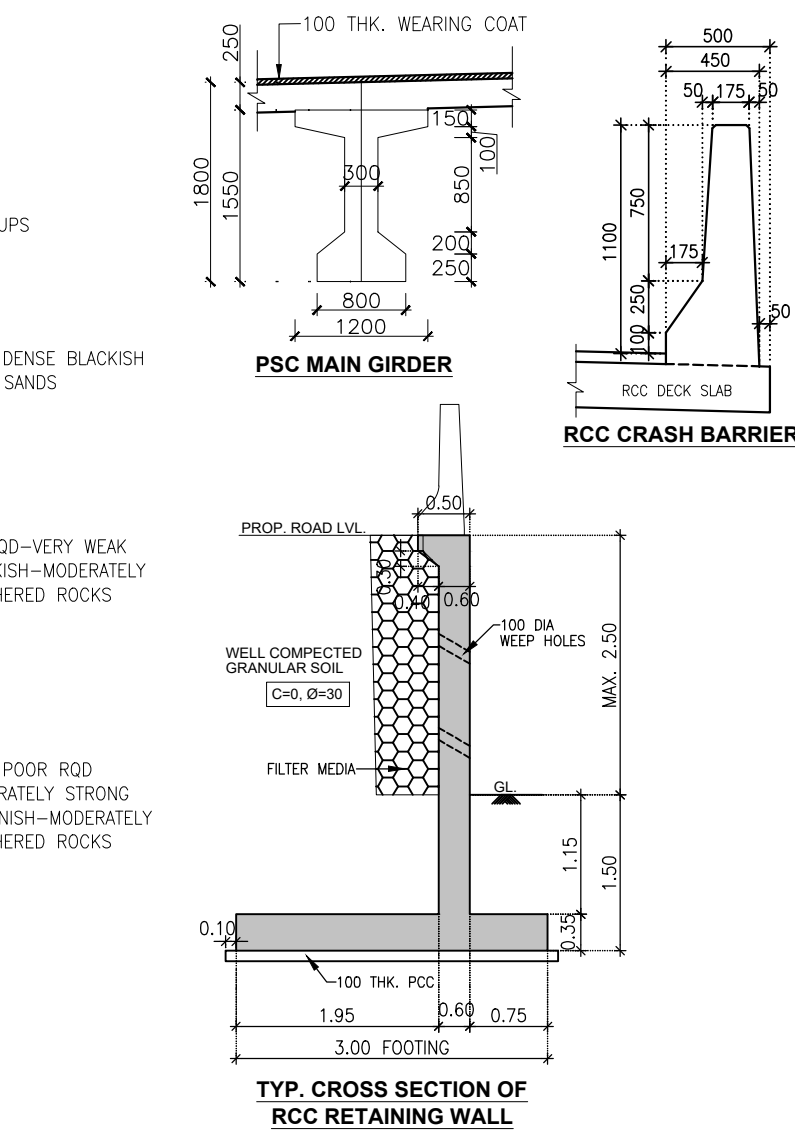
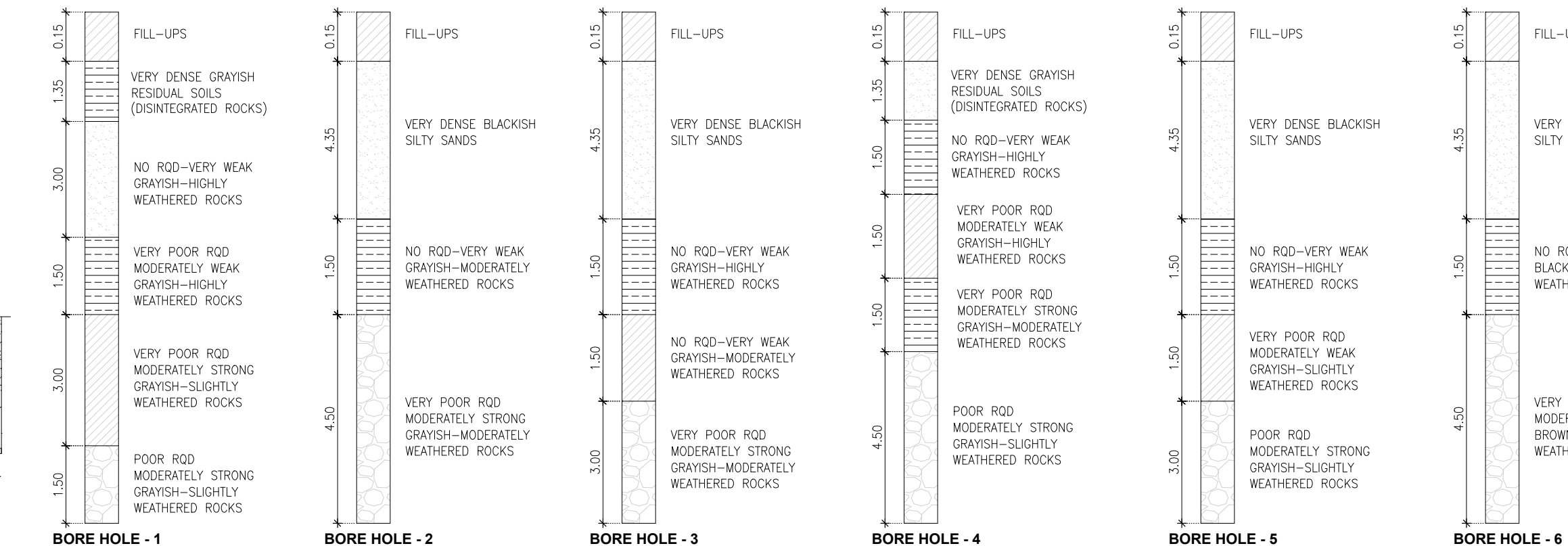
150 THK. RCC

32MM DIA. DOWEL BARS

2.00

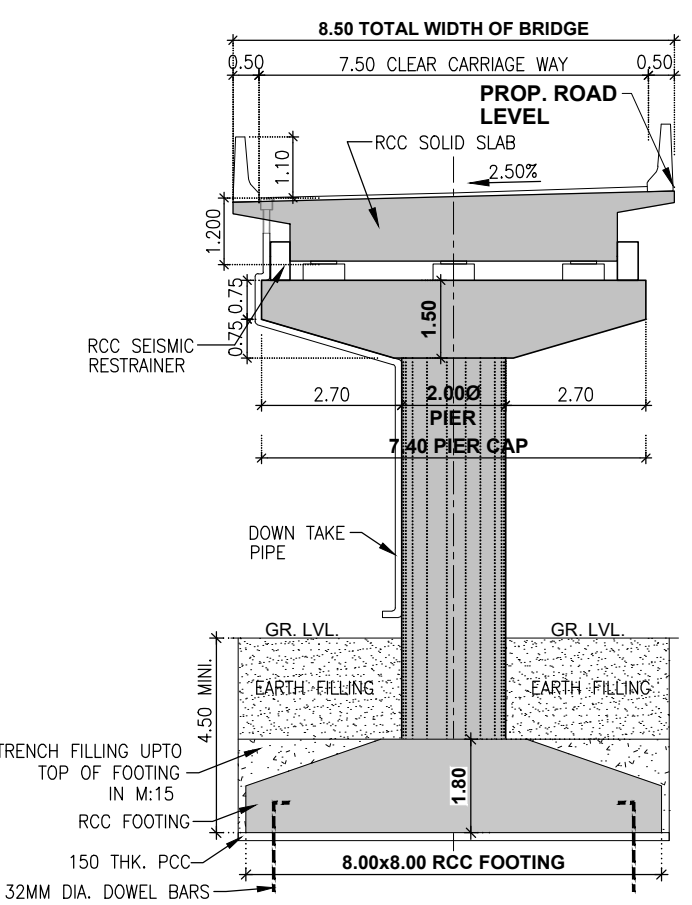
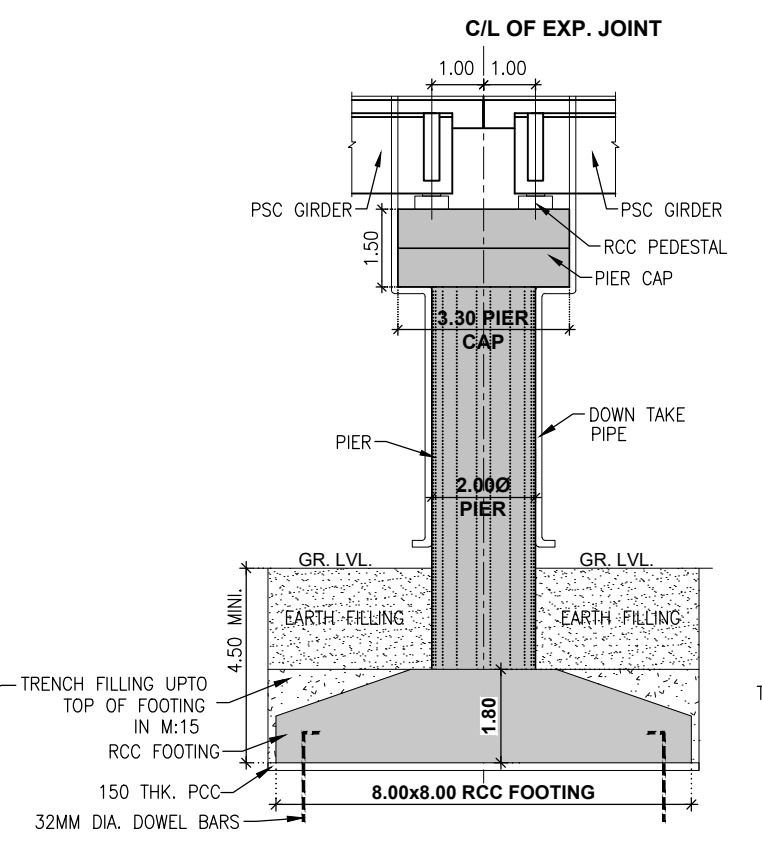
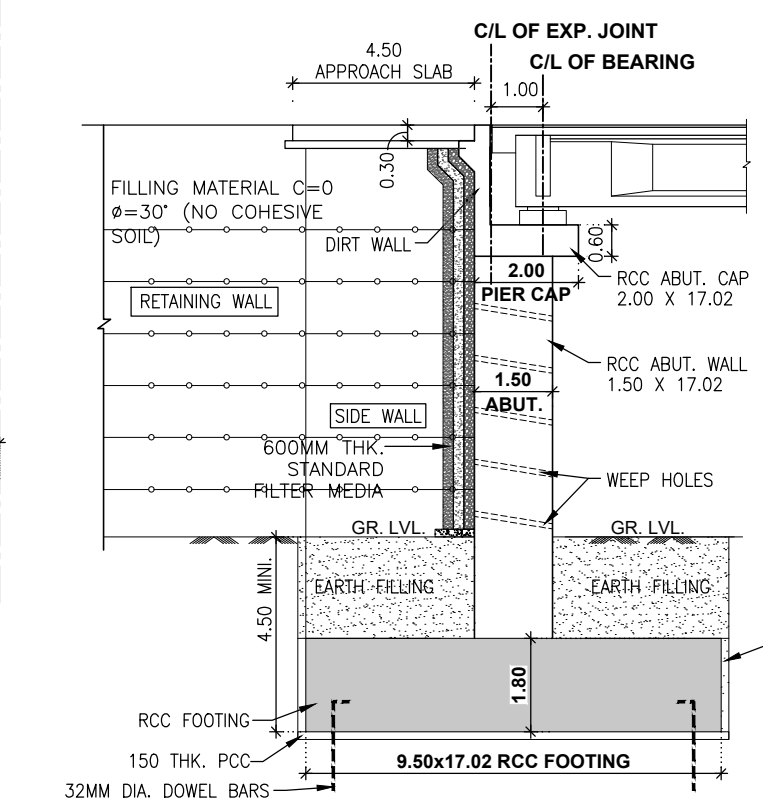
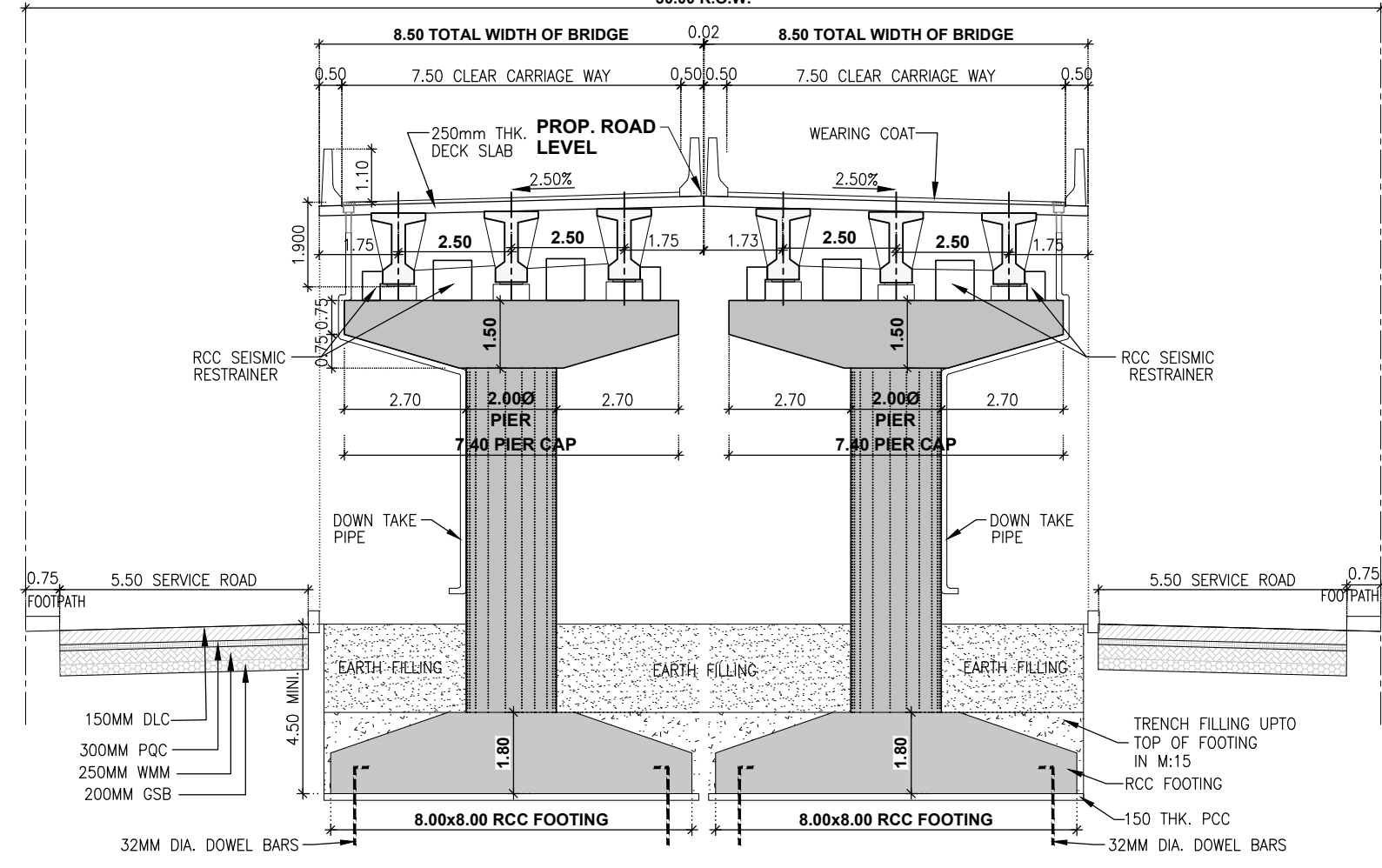
9.50x8.00 RCC FOOTING


LONGI. SECTION FOR RLY. SPAN



GRADE & MATERIAL TABLE :-		
SR. NO.	COMPONENT	GRADE / MATERIAL
1)	GRADE OF CONCRETE LEVELLING COURSE / P.C.C. RCC FOOTING PIER/ABUTMENT PIER CAP/ABUT.CAP/DORT WALL RCC PEDESTAL/RESTRAINER P.S.C. GIRDER RCC. SOLID SLAB DECK SLAB CRASH BARRIER RCC APPROACH & GAP SLAB RCC RETAINING WALL	M-15 M-40 M-40 M-40 M-45 M-50 M-40 M-50 M-40 M-35 M-35
2)	REINFORCEMENT	TMT Fe-550 D (F8EC)
3)	PRESSURISED STEEL (HTS)	CONFORMING TO IS 14268
4)	WEARING COAT	60mm DBM + 40mm BC
5)	EXPANSION JOINT	STRIPSTEEL TYPE
6)	BEARING	ELASTOMERIC

- GENERAL NOTES :**
1. ALL DIMENSIONS ARE IN METERS AND LEVELS IN METER UNLESS WRITTEN OTHERWISE.
 2. ALL DIMENSIONS SHALL NOT BE SCALED FROM THIS DRAWING, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. THE DIMENSIONS, SECTIONAL DETAILS, CURVE DETAILS ARE TENTATIVE AND MAY BE CHANGED TO ACCORDANCE WITH SURROUNDING SITE CONDITIONS.
 4. FOR STRIP SEAL TYPE EXPANSION JOINTS, MORTH I.R.C. & I.S SPECIFICATION SHALL BE USED.
 5. ALL OTHER SPECIFICATIONS SHALL BE AS PER MORTH & I.R.C SPECIFICATION FOR ROAD & BRIDGES.
 6. THE APPROACHES WORK SHOULD BE OF SAME WITH MOST SPECIFICATION.
 7. THE LATEST COLD PROVISION OF IRC-SPP-114-2018 WITH ITS AMENDMENT SHALL APPLY DURING DETAILS DESIGN.
 8. CRASH BARRIER SHALL BE AS PER LATEST IRC STANDARD.
 9. THE STRUCTURE WILL BE DESIGNED AS PER LATEST IRC / IS SPECIFICATIONS FOR "SEVERE" EXPOSURE CONDITION.
 10. BED LEVEL, FRL, SHALL BE VERIFIED BEFORE EXECUTION. ALL THE SETTING OUT DIMENSIONS AND REDUCED LEVEL ETC. SHALL BE VERIFIED AT SITE, BEFORE STARTING THE WORK.
 11. DESIGN LAMINAE SHALL BE 2 LAMES OF CLASS A OR C LAME OF FOR OR SV LAMINAE FOR BOTH SUPER STRUCTURE.
 12. CHECK & VERIFY THE ALIGNMENT BEFORE STARTING EXECUTION OF WORK.
 13. SHAPES AND SIZE OF GIRDERS, BEAMS, PILEDRALS, ABUTMENTS, PERS, CAPS, FOOTING, RETAINERS AND ARE SUBJECT TO CHANGE IN FINAL DESIGN AND DRAWING.
 14. PROPOSED ROAD IS LOCATED IN SEISMIC ZONE - III
 15. SOIL INVESTIGATION WAS CARRIED OUT AND FACT INVESTIGATION REPORT WAS SUBMITTED TO GEO, GANDHINAGAR, VIDE REF NO: PACT/25022032126 DATED 23/02/2025 OF GEOTECHNICS APPLICATION FOR CIVIL ENGINEERING & TESTING LAB AHMEDABAD
 16. WIND SPEED CONSIDERED IN DESIGN IS 39M/S.
 17. IN PRINCIPLE APPROVAL FOR PROPOSED WORK WAS GIVEN BY GOC VIDE THEIR LETTER NO:UDH/00/03/02/12/2024, DATE: 03-12-2024.
 18. DESIGN SPEED 60 kmph IS CONSIDERED.
 19. INSPECTION LEADER SHOULD BE KEPT FOR INSPECTION OF BEARING AND SUPERSTRUCTURE.
 20. APPROACH PORTION AS PER GOVERNMENT OR FRCH/102020/1293/C DATED 17.02.2021
 21. IF FRESH HARD ROCK IS AVAILABLE AT SHALLOW DEPTH, SHALL BE ANCHORED MINIMUM 0.6M IN HARD ROCK.
 22. WEEP HOLES WITH BACKING OF FILTER MATERIAL SHALL BE PROVIDED BEHIND ABUTMENTS AND RETURNS ON ACCORDANCE WITH APPENDIX-B OF IRC-78-2014.



					
KEYSTONE INFRASTRUCTURE AHMEDABAD					
REVISIONS		PARTICULARS		CHECKED	
NO.	DATE				
CLIENT:					
GUJARAT URBAN DEVELOPMENT COMPANY LIMITED					
PROJECT NO. -		PROJECT : CONSTRUCTION OF R.O.B IN LIEU OF LC-19B AT RLY. CH. 16/2 TO 16/3 KM. BETWEEN KHUJADIYA TO AMRELI STATION ON AMRELI - LATHI STATE HIGHWAY.			
DRAWN: BRUJESH SOLANKI CHECKED: NIRAV SHAH		TITLE: GENERAL ASSEMBLING DRAWING			
SCALE: AS SHOWN DATE : 08/09/2025		CONSULTANT :  KEYSTONE INFRASTRUCTURE			
DRG. NO. GAD-01	REV. RO	402, Primate Complex, Nr. Gormoh Restaurant, Judges Bungalow Cross Road, Bodakev, Ahmedabad - 380015 M : +919924133551 Phone/Fax: 079-49489541 Mail : info@keystoneinfra.in www.keystoneinfra.in			