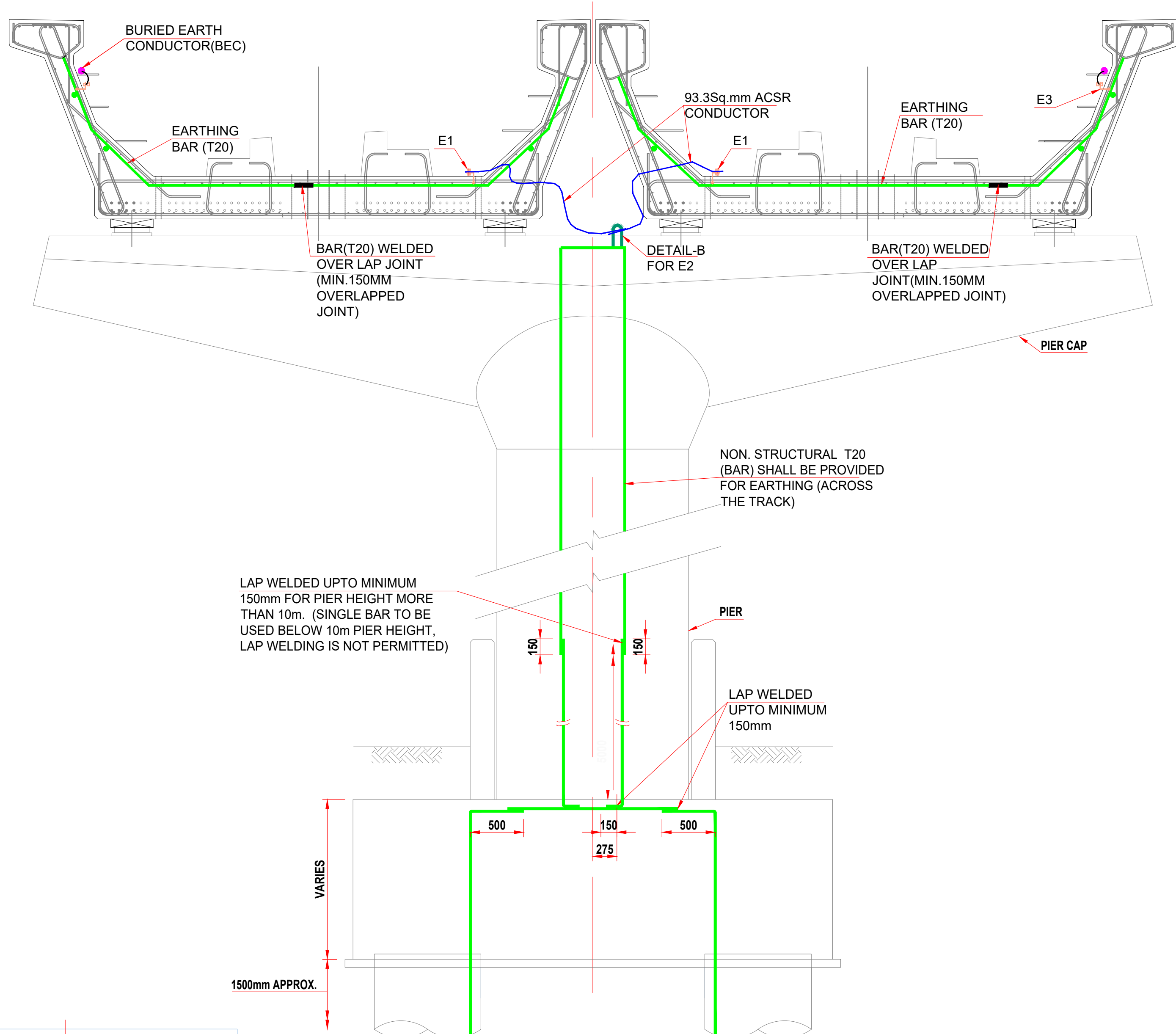
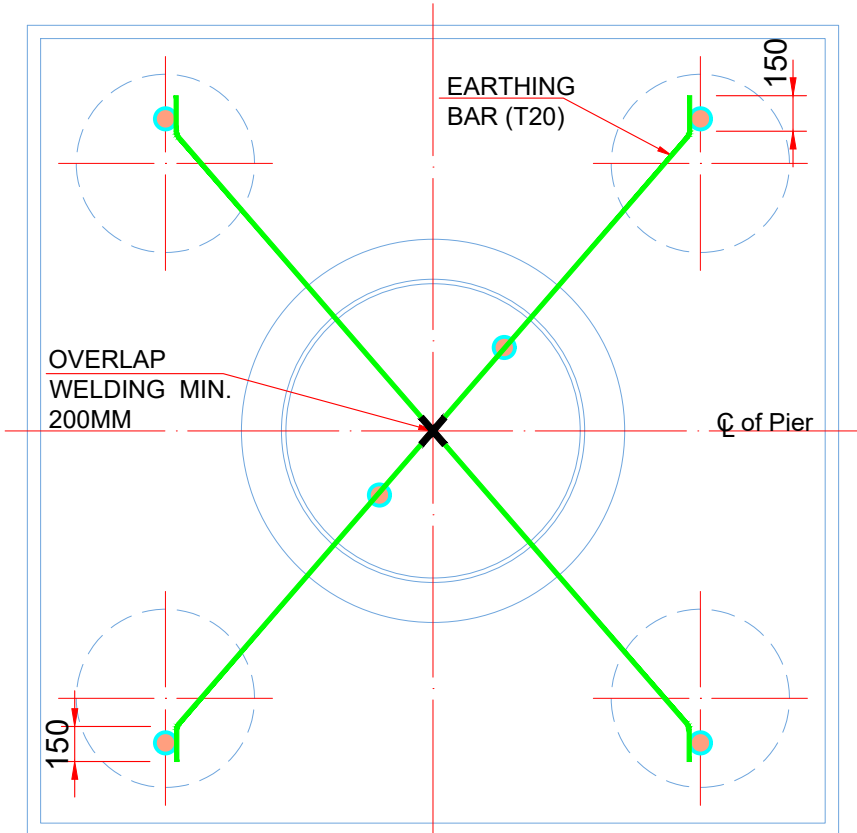
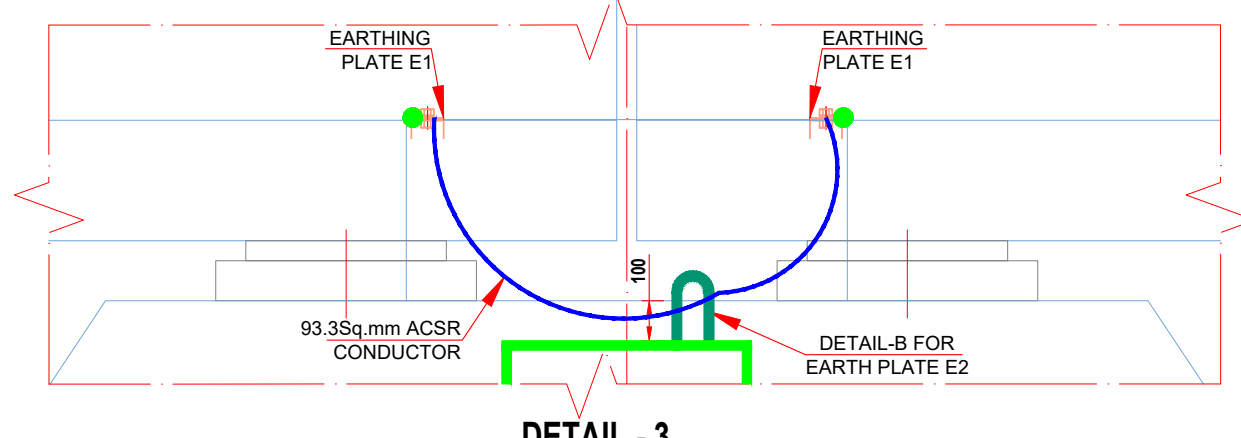




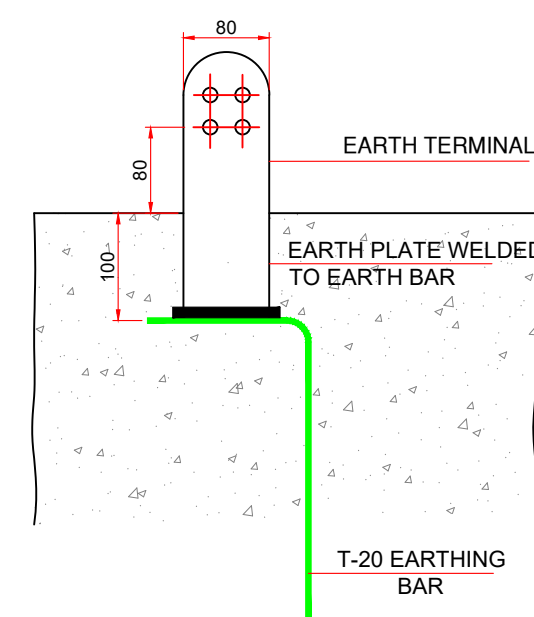
CROSS SECTION OF VIA DUCT



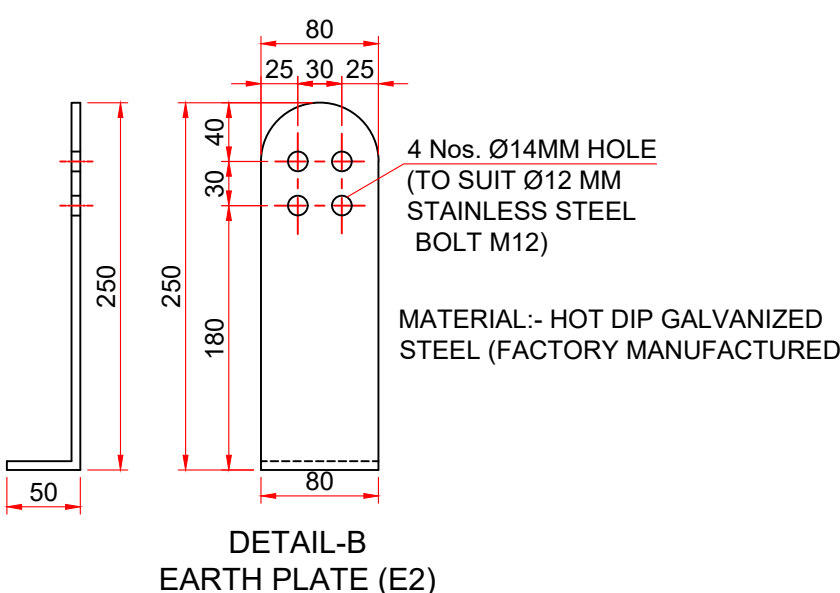
SECTION A-A



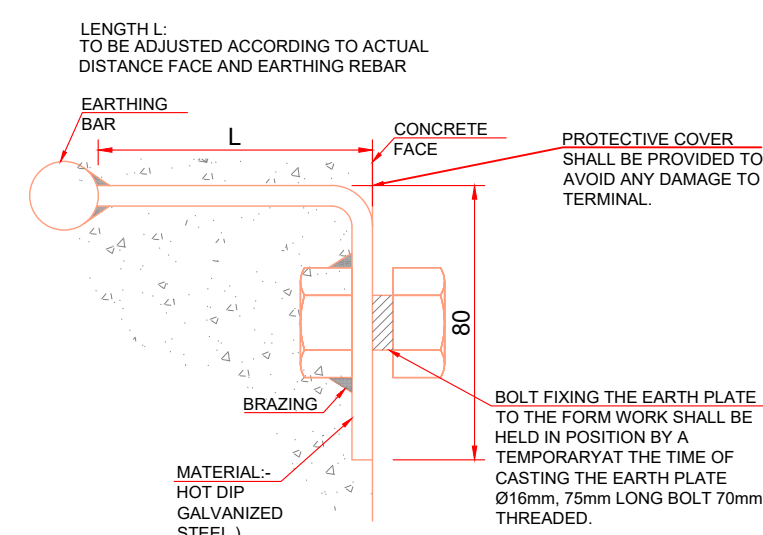
DETAIL - 3



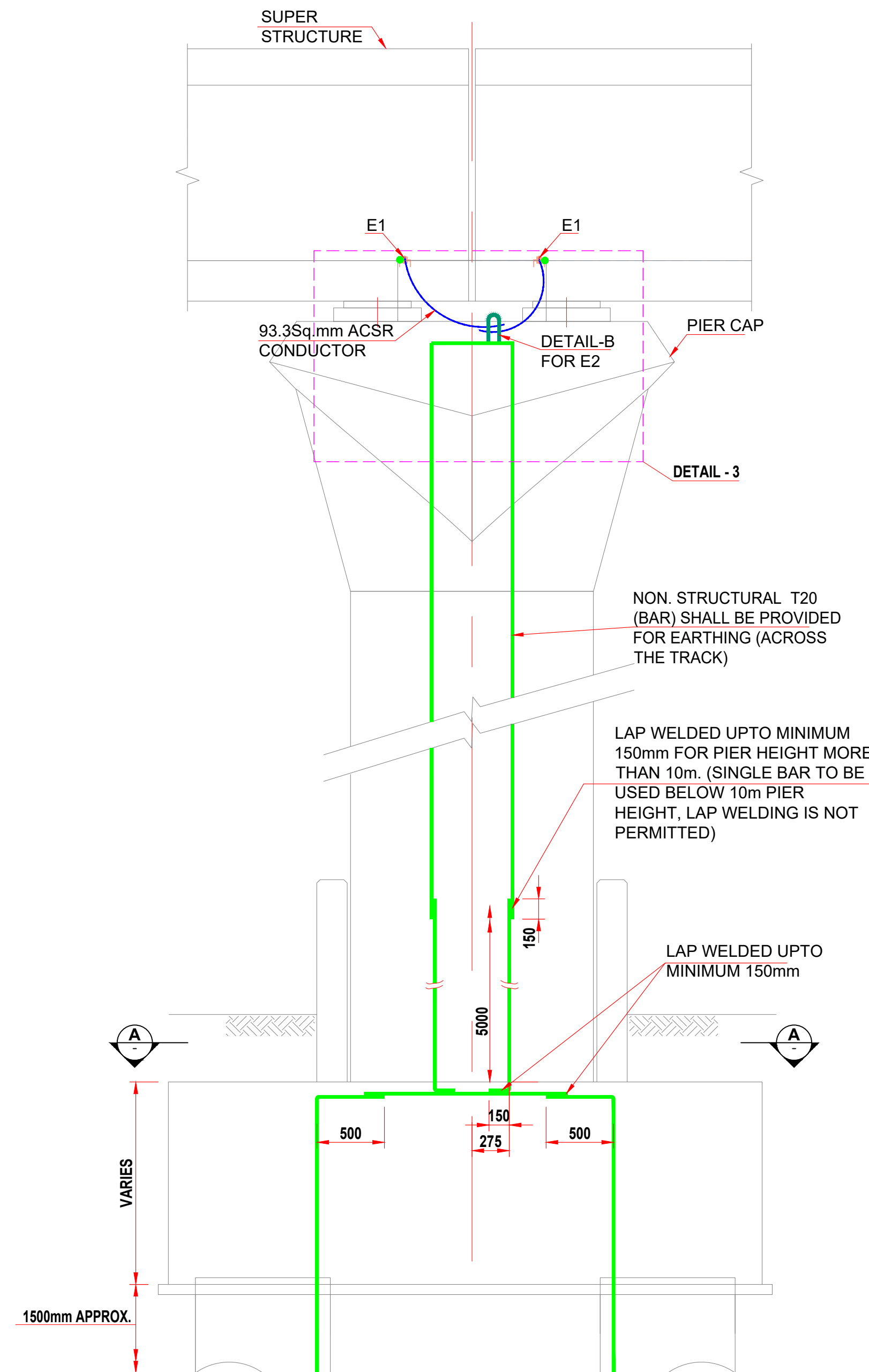
TYPICAL EARTH PLATE DETAIL FOR CONNECTION E2



DETAIL-B EARTH PLATE (E2)



DETAIL - A FOR CONNECTION E1 & E3 TYPICAL EARTH PLATE



SIDE VIEW OF VIADUCT

- NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
 3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
 4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.
 5. ALL WELDED PORTION SHALL BE MADE RUST FREE & PAINTED.
 6. EACH LONGITUDINAL EARTHING BAR SHALL BE CONNECTED TO SUBSTRUCTURE EARTHING SYSTEM AT BOTH ENDS OF THE BAR.
 7. CONNECTION OF EARTHING BAR TO BEC(BARED EARTHING CONDUCTOR.) RUNNING IN CABLE TRAY SHALL BE MADE AT EVERY 120 MTR. LENGTH(MAX.)
 8. SUPPORT BRACKET ARRANGEMENT AND LOCATION OF BEC(Buried earth conductor) ARE INDICATIVE ONLY.
 9. EARTHING REBARS SHALL BE CONSIDERED WHILE CHECKING STRUCTURAL RESISTANCE OF THE SUPERSTRUCTURE.
 10. AS GENERAL PRINCIPLE ALL METALLIC STRUCTURES SHALL BE ELECTRICALLY CONNECTED (WELDED) TOGETHER TO THE EARTHING SYSTEM ENDING IN GROUND.
 11. THE PROPOSED EARTHING SCHEMES IS INDICATIVE ONLY AND THE CONTRACTOR SHALL BE PROPOSE ITS OWN PRINCIPLE IN SHOP DRAWING.
 12. CABLE BRACKETS SHOULD BE CONNECTED TO EVERY 1 MTR. FOR EARTHING.
 13. THE CONNECTION FOR T20 EARTHING REBARS IS REQUIRED TO BE ESTABLISHED BY ENSURING A MINIMUM OVERLAP OF 150MM.
 14. PROTECTIVE COVER SHALL BE PROVIDED TO AVOID ANY DAMAGE TO TERMINAL.

Legends:-

Symbol	Description
—	Earthing Bar
—	ACSR Conductor
—	Buried earth conductor(BEC)/ Structure Earth Conductor(SEC)
●	Earth Plate(E1, E2 & E3)
—	Overlapped Joint

NOTES:

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3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R0	21-06-2024	FIRST SUBMISSION	RS	RK	SK

K RIDE

DM / ELE / KRIDE Sr. DGM / ELE / KRIDE AGM / ELE / KRIDE

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.

EGIS AECOM WSP
EGIS-AECOM-WSP

Senior Discipline Expert Chief Discipline Expert Project Director

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

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Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

Corridor- 2

Drawing Title: TYPICAL INTEGRATED EARTHING SCHEME- EARTHING & BONDING ARRANGEMENT AT PIER(U-GIRDER)

Project Stage: Tender Drawing

Paper Size: A1 Discipline: Power Supply & Traction System Date: 21/06/2024 Scale: TS/NTS

Drawing no.: KRDD01-TDR-GEN-GEN-TPS-DWG-00005 Revision: R0

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