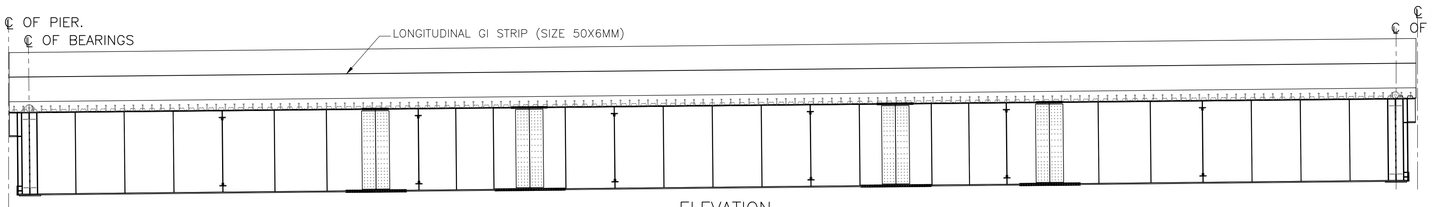

ELEVATION
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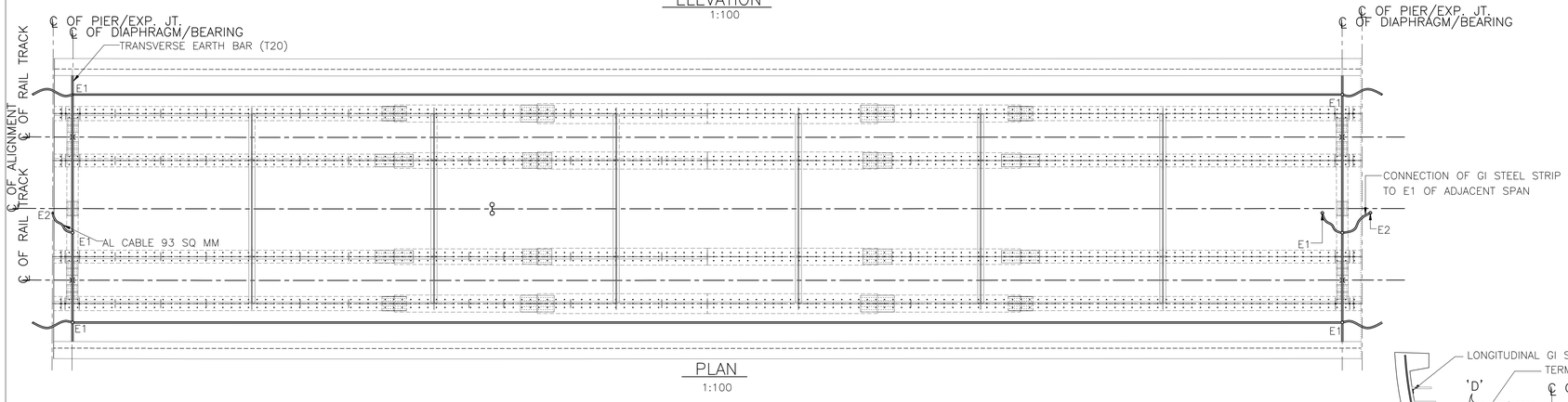


PLAN
1:100

LEGEND :

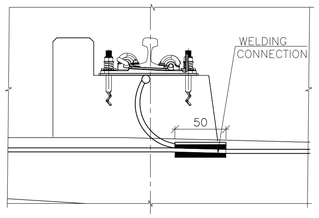
UN	----------	UNLESS NOTED
EXP.JT.	----------	EXPANSION JOINT
TYP	----------	TYPICAL
SYM	----------	SYMMETRY

NOTES:

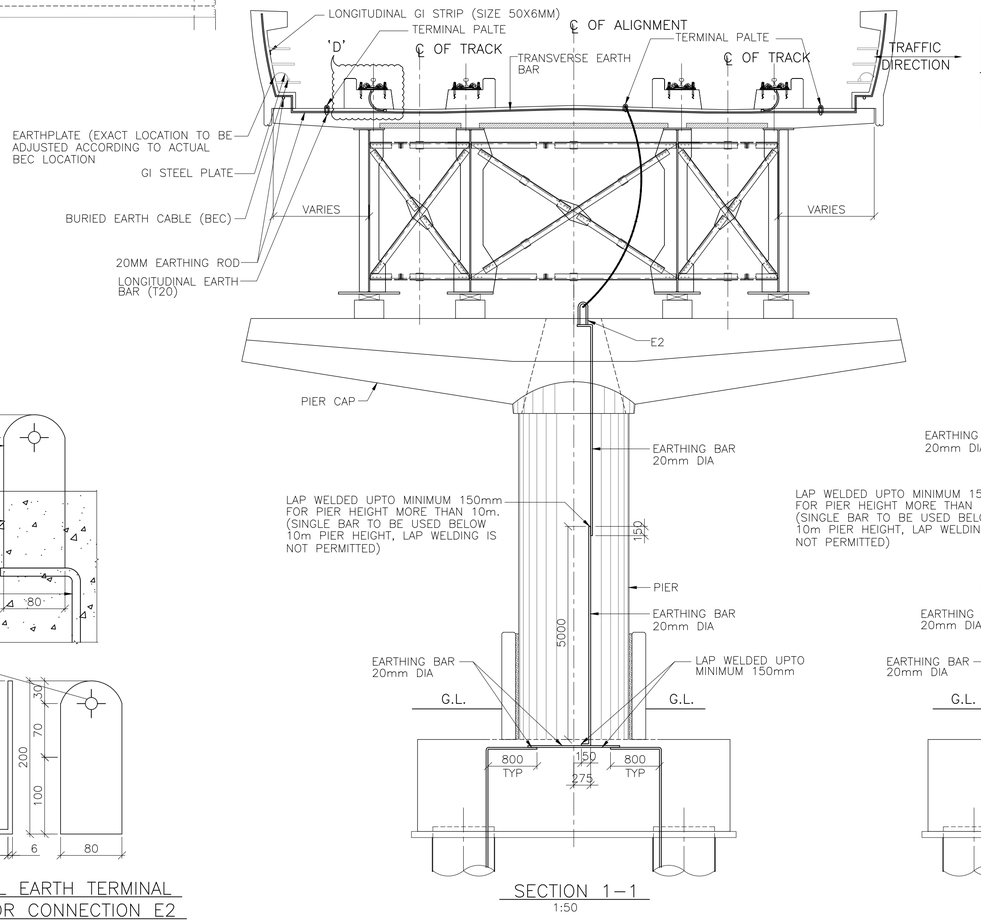
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS.
2. EACH LONGITUDNAL EARTHING BAR SHALL BE CONNECTED TO SUBSTRUCTURE EARTHING SYSTEM AT BOTH ENDS OF THE BAR.
3. CONNECTION OF EARTHING BAR TO BEC (BURIED EARTHING CABLE RUNNING IN CABLE TRAY) SHALL BE MADE AT EVERY 120m LENGTH (MAXIMUM).
4. CABLE TRAY ARRANGENEMENT AND LOCATION OF BEC (BURIED EARTHING CABLE) ARE INDICATIVE ONLY.
5. FLAT GI STEEL PLATE CONNECTING EARTH PLATES SHALL BE MADE OF 400mm.
6. EARTHING REBARS SHALL NOT BE CONSIDERED WHILE CHECKING STRUCTURAL RESISTANCE OF THE SUPERSTRUCTURE.
8. THE PLAN VIEW ABOVE SHOWS TYPICAL EARTHING SCHEME FOR 4 SUCCESSIVE 25m SPANS. SAME ARRANGEMENT SHALL BE REPEATED FOR NEXT FOUR SPANS.
9. AS A GENERAL PRINCIPAL ALL METALLIC STRUCTURES SHALL BE ELECTRICALLY CONNECTED (WELEDED) TOGETHER TO THE EARTHING SYSTEM ENDING IN GROUND.
10. THE PROPOSED EARTHING SCHEME IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROPOSED ITS OWN PRINCIPAL IN SHOP DRAWING.

THE EARTHING BAR SHOULD BE WELDED TO THE TRACK PLINTH REINFORCEMENT & TO THE GIRDER REINFORCEMENT PROJECTING INTO THE DECK

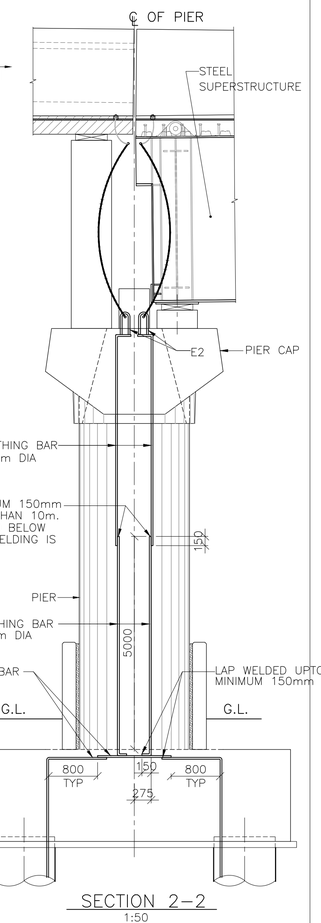
THE PARAPET TO ACHIEVE EARTH CONNECTION SHOULD BE MADE CONTINUOUS THROUGH A NON-STRUCTURAL Y-20 LONGITUDINAL EARTHING BAR BY WELDING AT THE TIME OF STITCHING THE PARAPETS. WELDING TO BE DONE WITH MINIMUM OVERLAP OF 150MM.



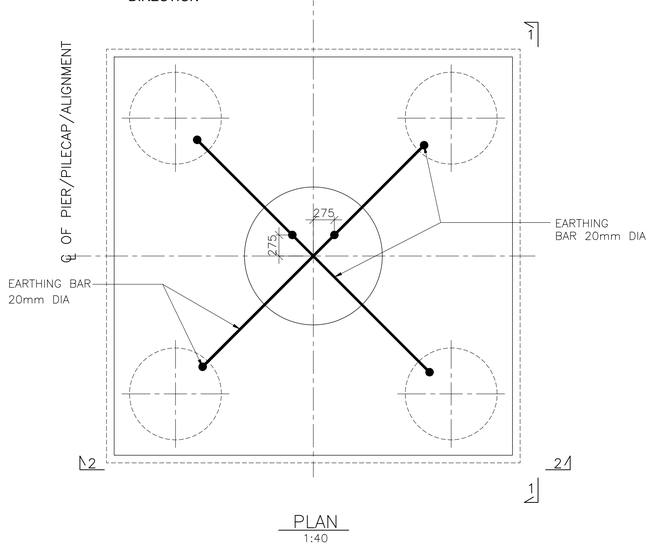
DETAIL 'D'
1:15



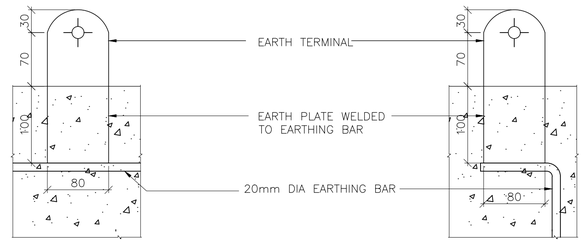
SECTION 1-1
1:50

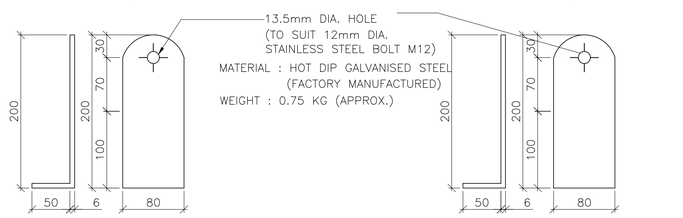


SECTION 2-2
1:50



PLAN
1:40





TYPICAL EARTH TERMINAL DETAIL FOR CONNECTION E1
1:4

TYPICAL EARTH TERMINAL DETAIL FOR CONNECTION E2
1:4

REVISIONS		
R0	04.01.2025	FOR APPROVAL
REV	DATE	BRIEF DESCRIPTION

EMPLOYER :
RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

GENERAL CONSULTANTS :
AECOM egis wsp AECOM-EGIS-WSP

PROJECT :
BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)
K-RIDE CORRIDOR - 4

DRAWING TITLE :
C4 PACKAGE : EARTHING ARRANGEMENT- STEEL GIRDER SPANS

DRAWING NO. :	REVISION	DWG STATUS
SDPL-1012-CR4-SK-0005	R0	P
SCALE : AS SHOWN / DATE :		

PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M) — SHEET SIZE - A1