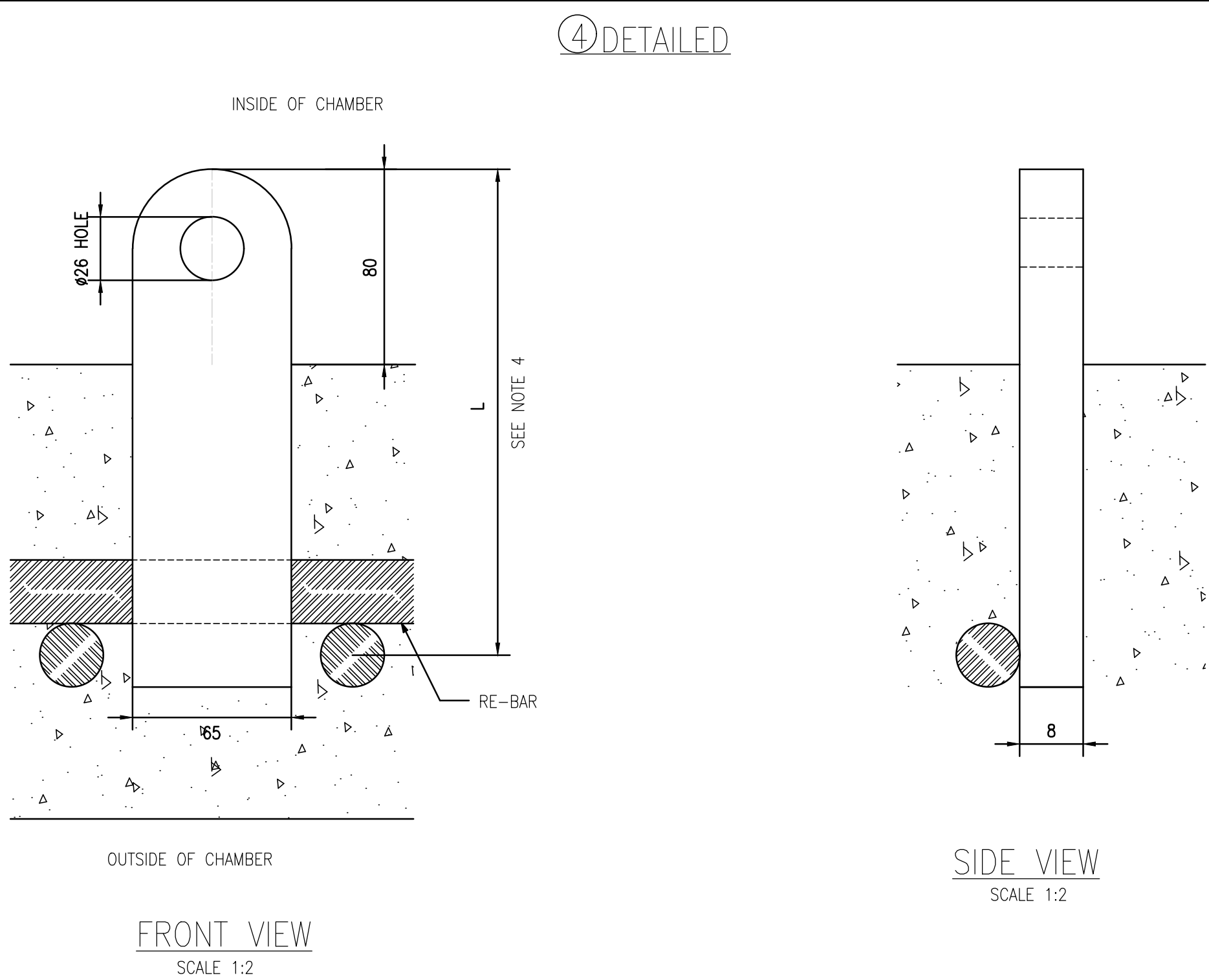
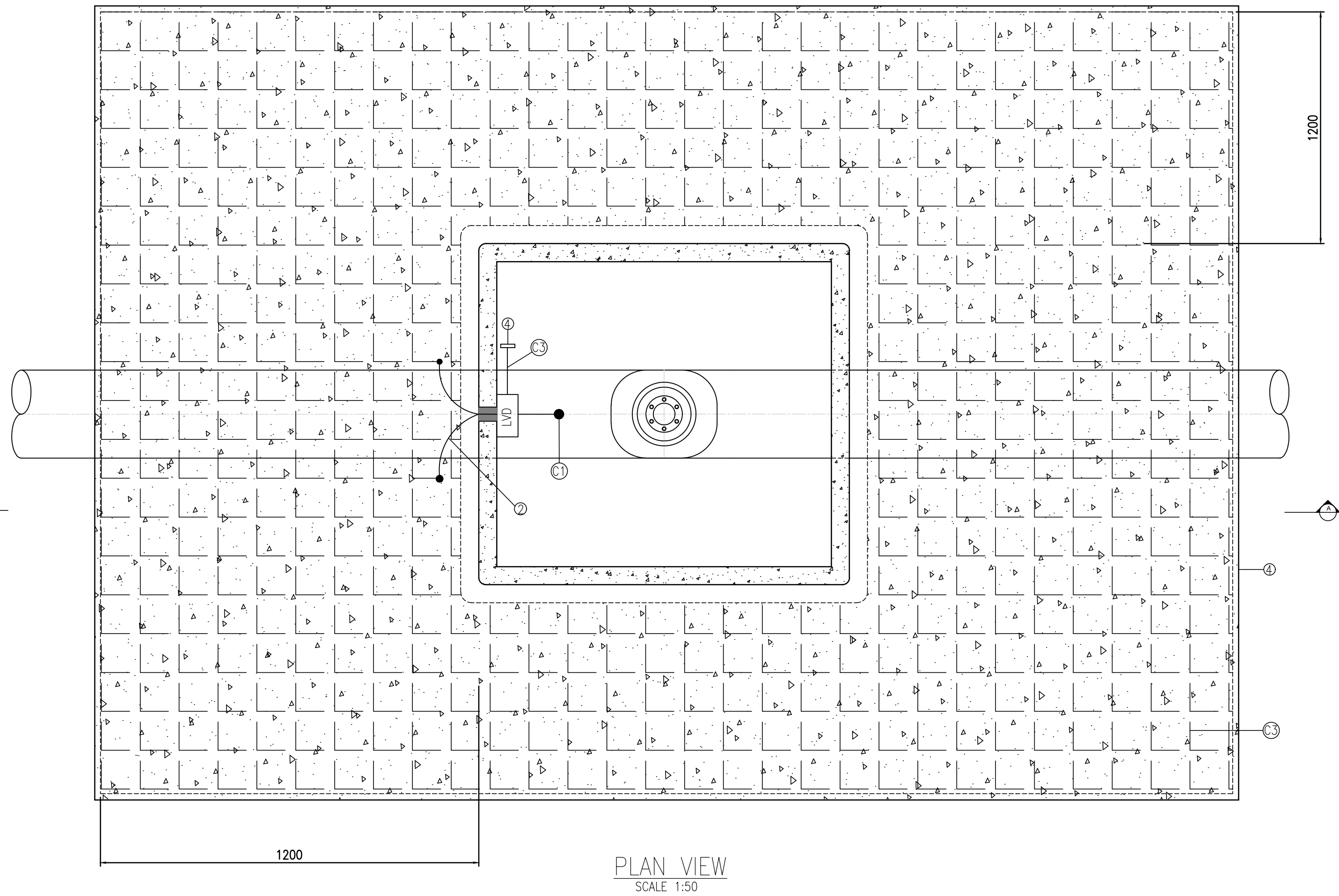
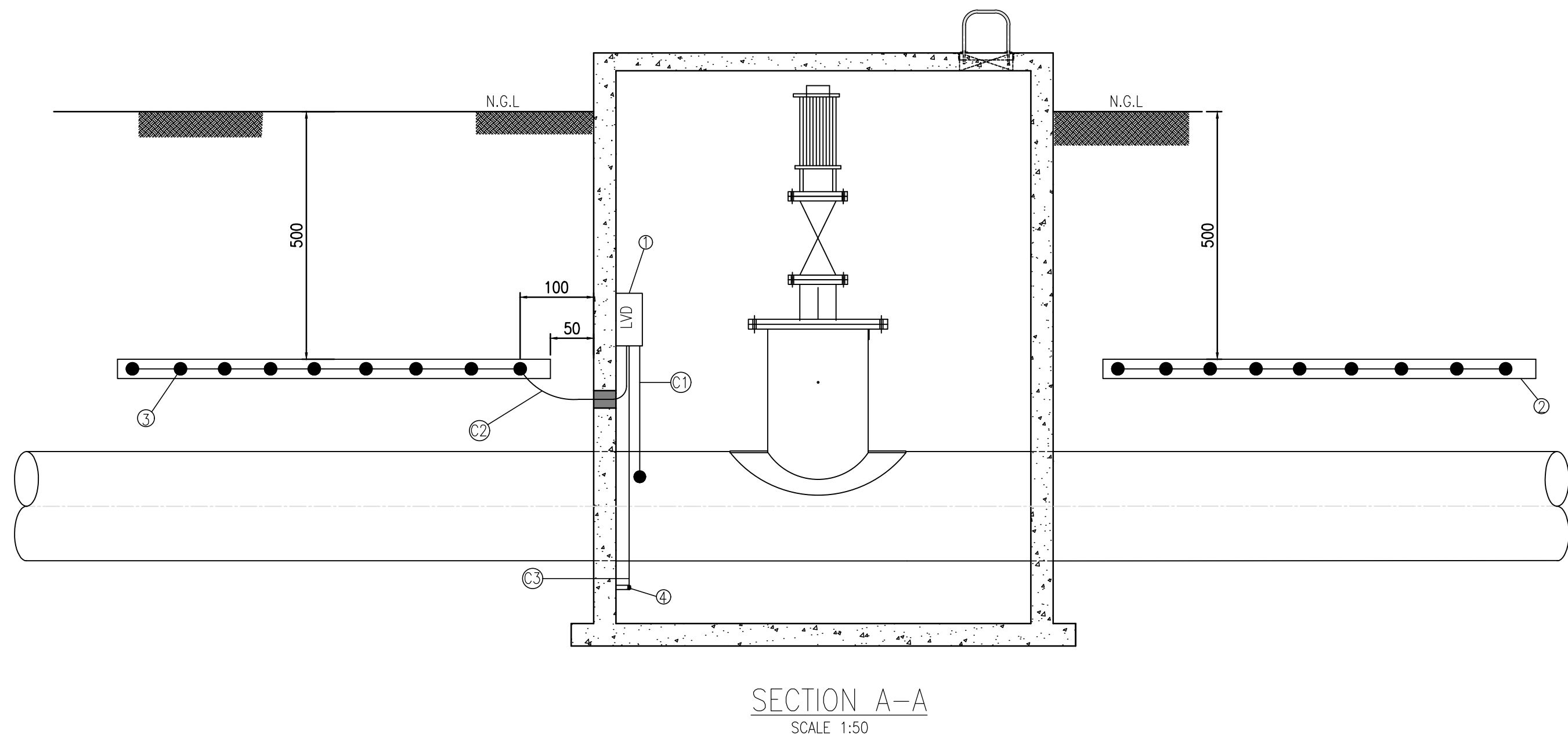




| MATERIALS LIST |      |                         |                      |
|----------------|------|-------------------------|----------------------|
| ITEM           | QTY. | DESCRIPTION             | MATERIAL / REFERENCE |
| 1              | 1    | RE-BAR CONNECTING PLATE | STAINLESS STEEL      |

1. PLATE TO BE CONNECTED TO REBAR / WELD MESH BY WELDING.
2. PLATE MUST PROTRUDE 80mm FROM CONCRETE.
3. PLATE TO BE POSITIONED IN CLOSE PROXIMITY TO PIPE.
4. LENGTH TO BE CONFIRMED ON SITE, WILL DEPEND ON CHAMBER WALL THICKNESS AND REBAR LOCATION.

| MATERIALS LIST |          |                                                            |                                                          |
|----------------|----------|------------------------------------------------------------|----------------------------------------------------------|
| ITEM           | QTY.     | DESCRIPTION                                                | MATERIAL / REFERENCE                                     |
| 1              | 1        | VOLTAGE LIMITING DEVICE                                    | INSTALLED INSIDE JUNCTION                                |
| 2              | AS REQ'D | CONCRETE ENCASEMENT FOR EXTERNAL GRADIENT MAT (100mm THK.) | CAST IN-SITU                                             |
| 3              | AS REQ'D | EXTERNAL GRADIENT MAT                                      | 200x200x6mm <sup>2</sup> STEEL WELD MESH, NOT GALVANIZED |
| 4              | 1        | RE-BAR CONNECTING PLATE                                    | STEEL                                                    |

| CABLE SCHEDULE & MATERIAL DESCRIPTION |      |                |                       |                      |           |                   |             |          |            |
|---------------------------------------|------|----------------|-----------------------|----------------------|-----------|-------------------|-------------|----------|------------|
| ITEM                                  | QTY. | LENGTH OF EACH | CABLE SERVICE         | CORE mm <sup>2</sup> | CORE QTY. | CABLE DESCRIPTION |             | MATERIAL |            |
|                                       |      |                |                       |                      |           | STRAND TYPE       | COLOUR      | CORE     | INSULATION |
| C1                                    | 2    | AS REQ'D       | PIPE CONNECTION       | 16                   | 1         | MULTI             | BLACK       | COPPER   | PVC/PVC    |
| C2                                    | 2    | AS REQ'D       | EXTERNAL GRADIENT MAT | 16                   | 1         | MULTI             | BLACK/GREEN | COPPER   | PVC/PVC    |
| C3                                    | 2    | AS REQ'D       | RE-BAR CONNECTION     | 16                   | 1         | MULTI             | BLACK/GREEN | COPPER   | PVC/PVC    |

| REVISIONS |      |         |          |             |
|-----------|------|---------|----------|-------------|
| No        | DATE | CHECKED | APPROVED | DESCRIPTION |
|           |      |         |          |             |
|           |      |         |          |             |
|           |      |         |          |             |
|           |      |         |          |             |
|           |      |         |          |             |
|           |      |         |          |             |

| REFERENCE DRAWINGS |       |
|--------------------|-------|
| NUMBER             | TITLE |
|                    |       |
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|              |            |                   |        |
|--------------|------------|-------------------|--------|
| SAP No.      | P.XXXXX    | CHECKED BY        |        |
| CONTRACT No. | RWXXXXX/XX | D.O.M. c. TUMBARE |        |
| DESIGNED BY  | XXX        | APPROVED          | Pr Eng |
| DRAWN BY     | KS KWINDA  | REG. No.          |        |
| DATE         | 2017-03-22 | DATE              |        |

RAND WATER  
STANDARD DRAWING

CATHODIC PROTECTION EXTERNAL  
EARTH MAT INSTALLATION

STATION      WKS      DOC. TYPE      S

SCALE : AS SHOWN

DRG No. RA\_27375

REVISION  
0