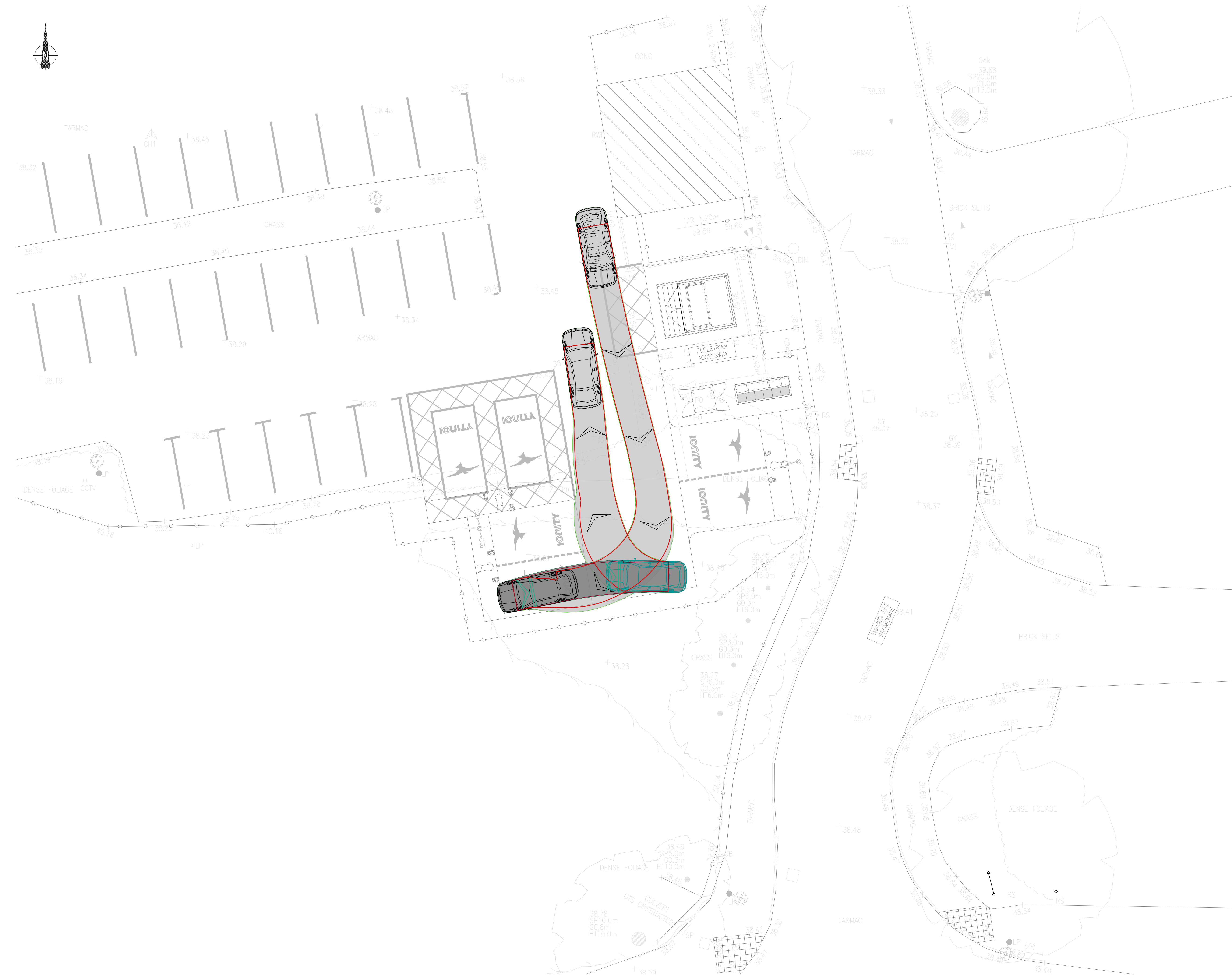
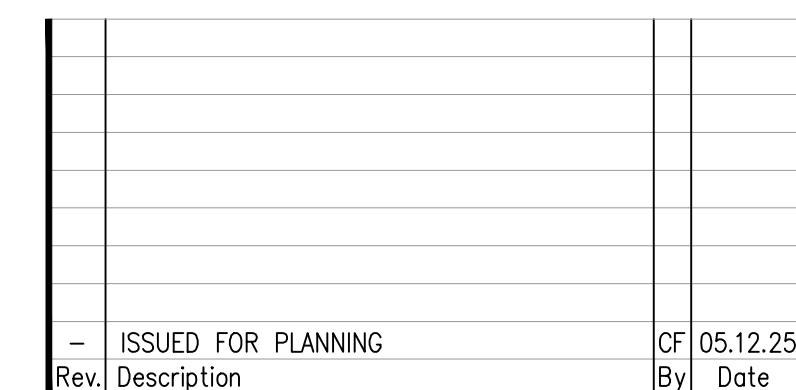
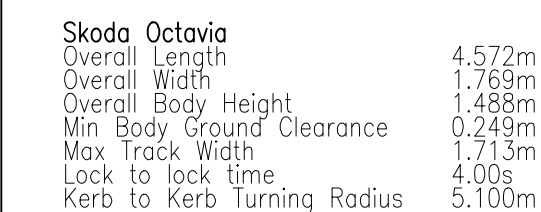




ALL WORKS TO COMPLY WITH THE CURRENT BUILDING REGULATIONS.
DO NOT SCALE.



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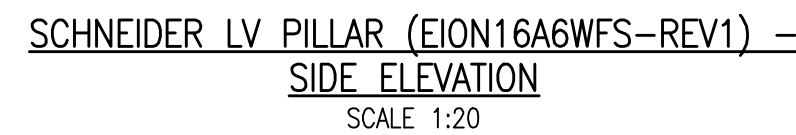
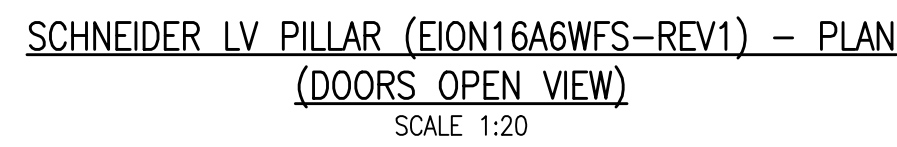
mail@mcardleedoyle.ie
+353(0) 42 942 9052

CLIENT: **IONITY** 

DRAWING TITLE:

AUTOTRACK ANALYSIS

Date 29/08/25	Drawn CF	Checked JR	Approved JF	
Scale at A1 1:100	Drawing Number P2434.23.C07		Status PL	Rev. -



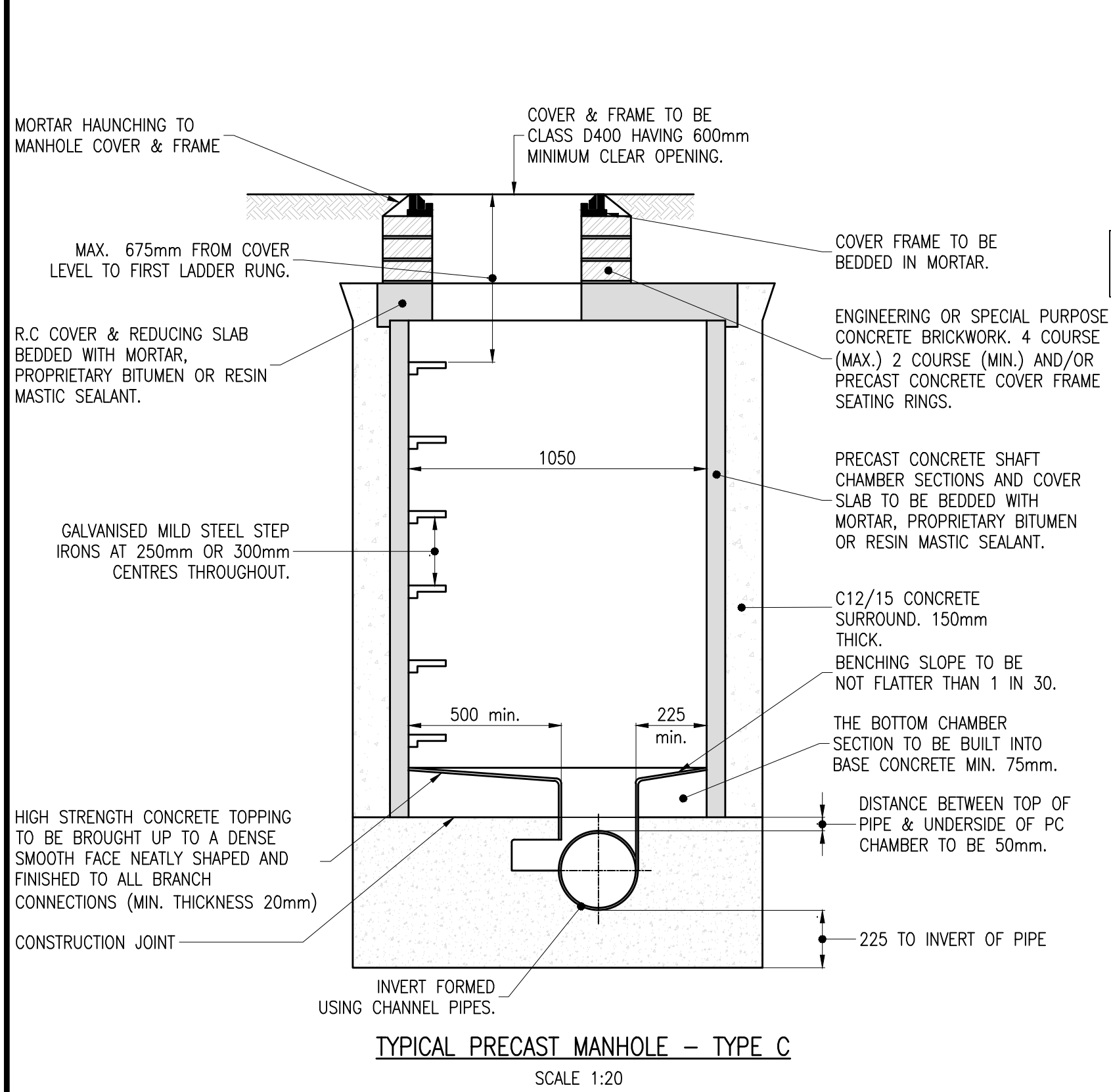
ALL DUCTS TO BE DRILLED THE CORRECT SIZE FOR
INSTALLATION USING THE METHOD SHOWN IN DIAGRAM 1
BELOW, LETTERBOX STYLE OPENINGS ARE TO BE AVOIDED TO
MAINTAIN STRENGTH OF THE STAKKAbOX ACCESS CHAMBER



- THE EV CABINET BASE MUST BE MANUFACTURED FROM GALVANIZED STEEL.
- EV CABINET BASES TO BE MANUFACTURED FROM GALVANIZED STEEL.
- BOTH PLINTH AND CABLE GLAND TRAY TO BE MANUFACTURED WITH PRE-DRILLED FIXING POINTS FOR CABINET AND EARTH POINTS.
- CABINET BASES MUST HAVE INTERCHANGEABLE A15 ANTI SLIP COMPOSITE COVERS
- ACCESS CHAMBERS MUST BE MANUFACTURED FROM THERMOSET GRP.
- ACCESS CHAMBERS SHALL BE A TWIN-WALL DESIGN WITH A TRANSVERSE VERTICAL RIB AND ASSEMBLED FROM STACKABLE 150mm DEEP SECTIONS.
- ACCESS CHAMBERS MUST BE TESTED TO WITHSTAND A MINIMUM VERTICAL LOAD OF 90 TONNES WITHOUT THE USE OF CONCRETE SURROUND FOR SUPPORT.
- EXTERNAL WALLS SHALL BE SMOOTH WITH A KEY LIP TO ALLOW FULL COMPACTION AGAINST THE CHAMBER AND KEY INTO BACKFILL MATERIAL.
- EXTERNAL WALLS SHALL BE FREE FROM MOULDING VOIDS THAT WILL NEGATIVELY IMPACT THE EFFECTIVENESS OF COMPACTION WHICH SHOULD BE IN ACCORDANCE WITH THE NEW ROADS AND STREET WORKS ACT (1991).
- ACCESS CHAMBERS MUST NOT BE JOINED IN THE CORNER OR REQUIRE MECHANICAL FIXING TO ACHIEVE STRENGTH. VERTICAL JOINTS WILL BE STAGGERED.
- ACCESS CHAMBER SECTIONS MUST HAVE THE ABILITY TO BE ADJUSTED IN HEIGHT DURING INSTALLATION BY BEING CUT LATERALLY WITHOUT LOSS OF STRENGTH TO ALLOW FOR TRANSITIONAL GRADIENT INSTALLATIONS.
- ACCESS CHAMBERS WILL ALLOW DUCT ENTRIES TO BE QUICKLY FORMED ON
- ACCESS CHAMBERS MUST HAVE SMOOTH INTERNAL WALLS TO ALLOW CHAMBER FURNITURE TO BE FITTED.
- ANY SIZE CHAMBER CAN BE MADE IN 100mm INTERVALS
- TWIN WALL ACCESS CHAMBERS TO BE SUPPLIED TO THE ABOVE SPECIFICATION BY NAL LTD OR EQUALLY APPROVED MANUFACTURER.

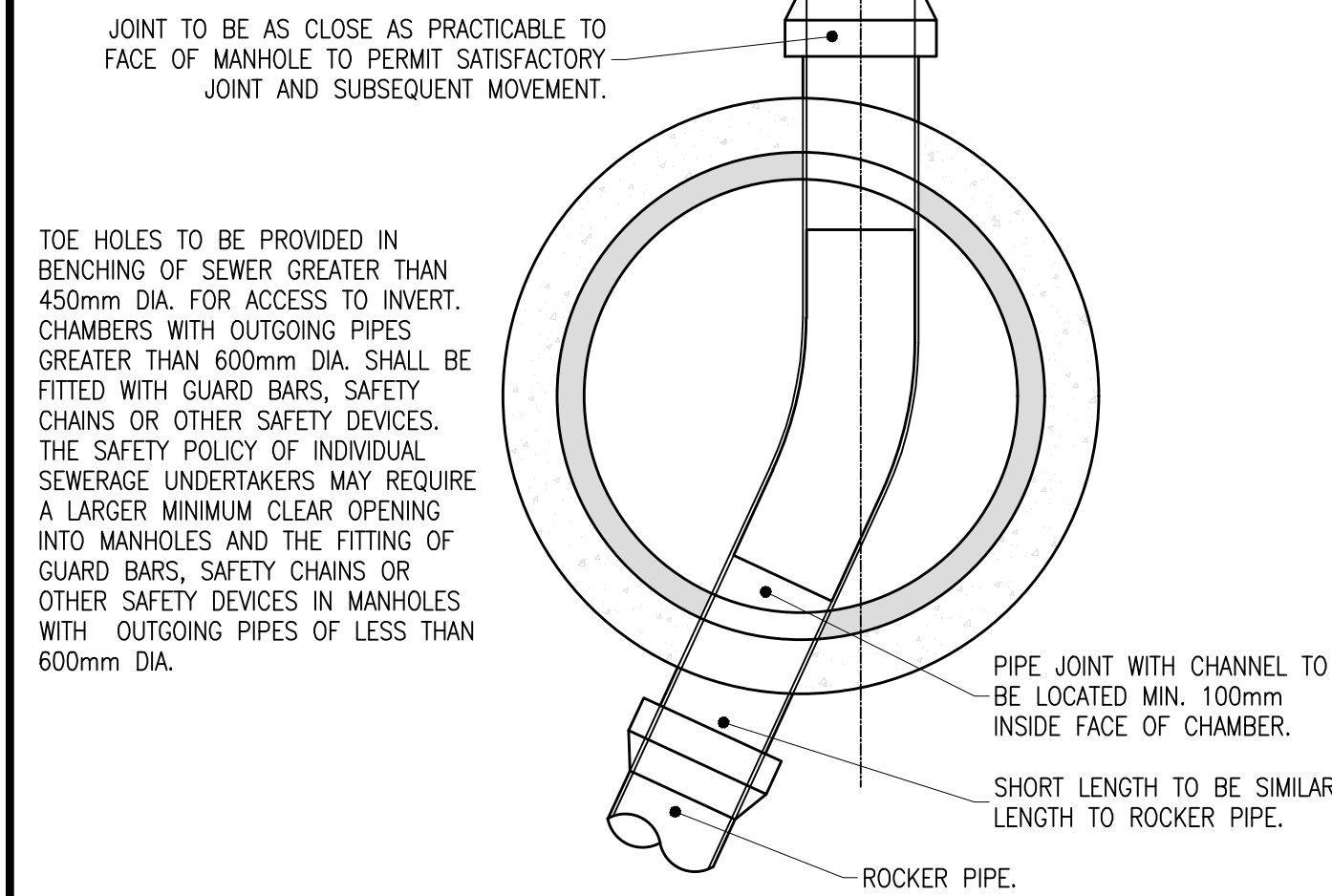
Scale at A1 AS SHOWN	Drawing Number P2434.23.C08	Status PL	Rev. -
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TYPICAL PRECAST MANHOLE – TYPE C
SCALE 1:20

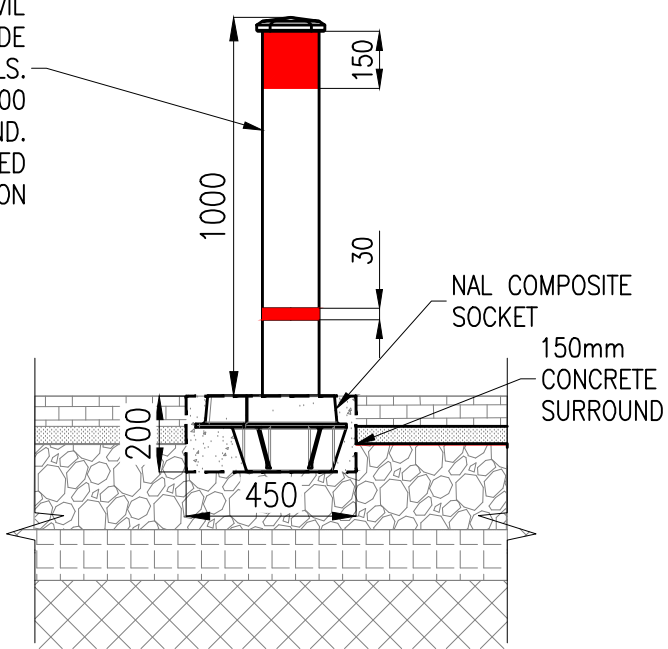
PIPE DIA.	ROCKER PIPE LENGTH
150 – 450	0.5m – 0.75m
451 – 750	0.75m – 1.0m
451 – 750	SEEK GUIDANCE



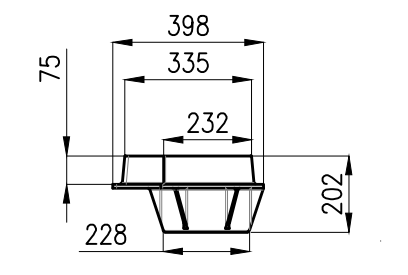
SECTION

NAL COMPOSITE SOCKETS FOR NAL X-LAST BOLLARDS. REFER NAL X-LAST BOLLARDS CIVIL INSTALLATION GUIDE FOR FOUNDATION DETAILS. SIZE OF FOUNDATION 450x450x200 DEEP IS SHOWN AS HARD GROUND. CONFIRMATION FROM NAL IS REQUIRED BEFORE ACTUAL CONSTRUCTION

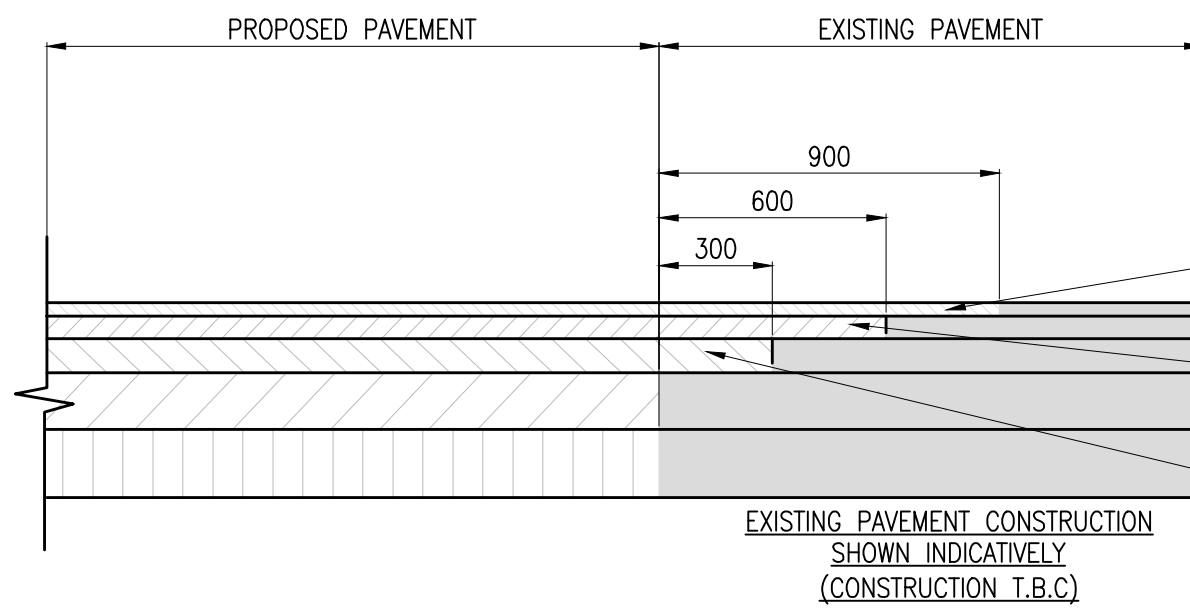
NOTE: BOLLARDS TO BE SUPPLIED & INSTALLED BY CONTRACTOR



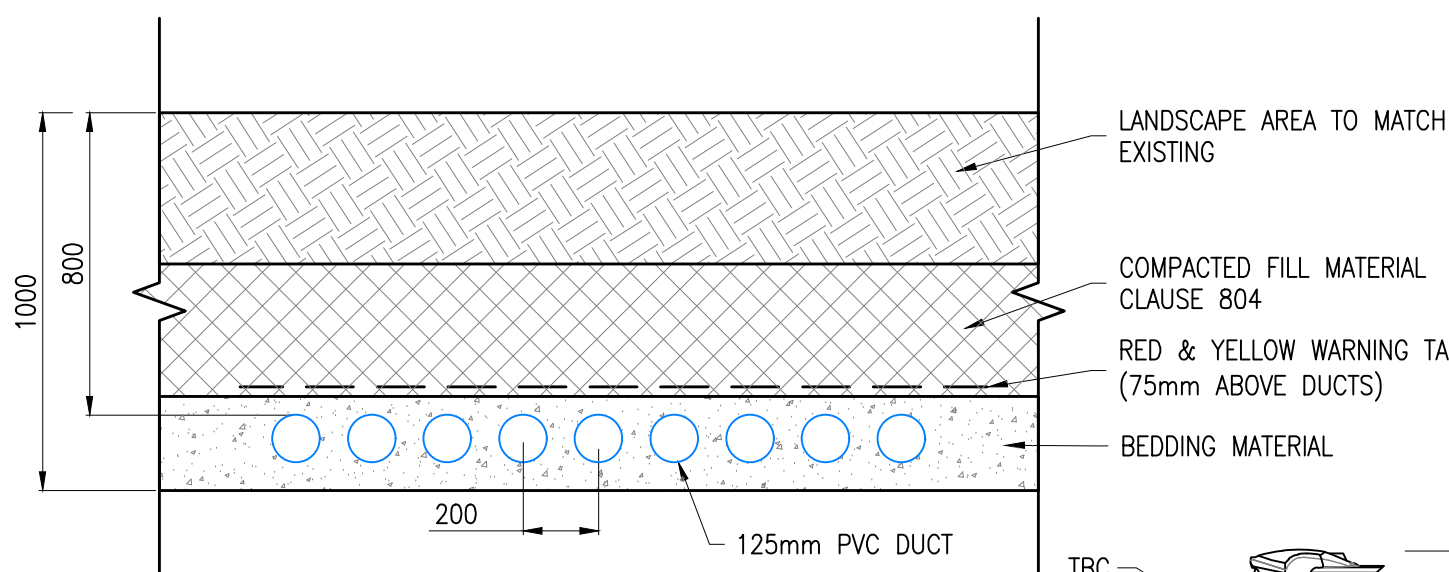
NAL SOCKET & NUVO X-LAST BOLLARD AT EV CHARGERS
SCALE 1:20



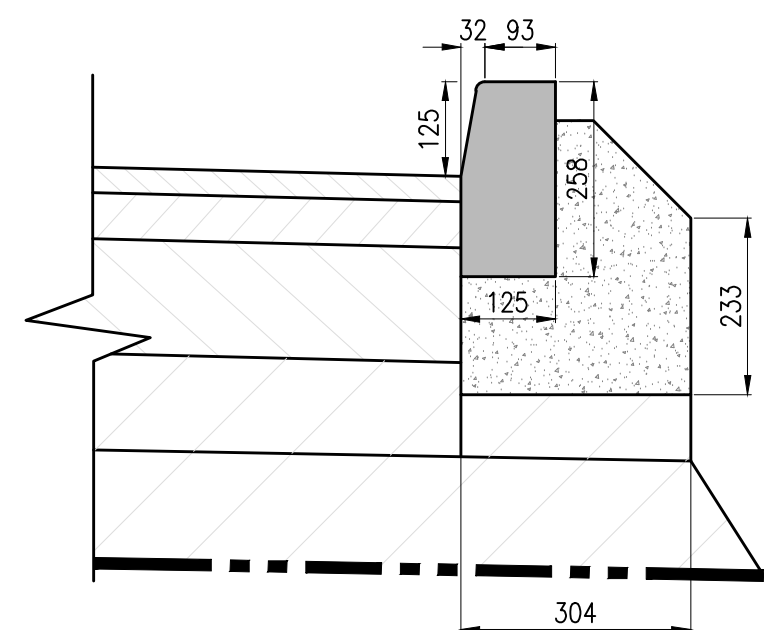
NAL COMPOSITE SOCKET
SCALE 1:20



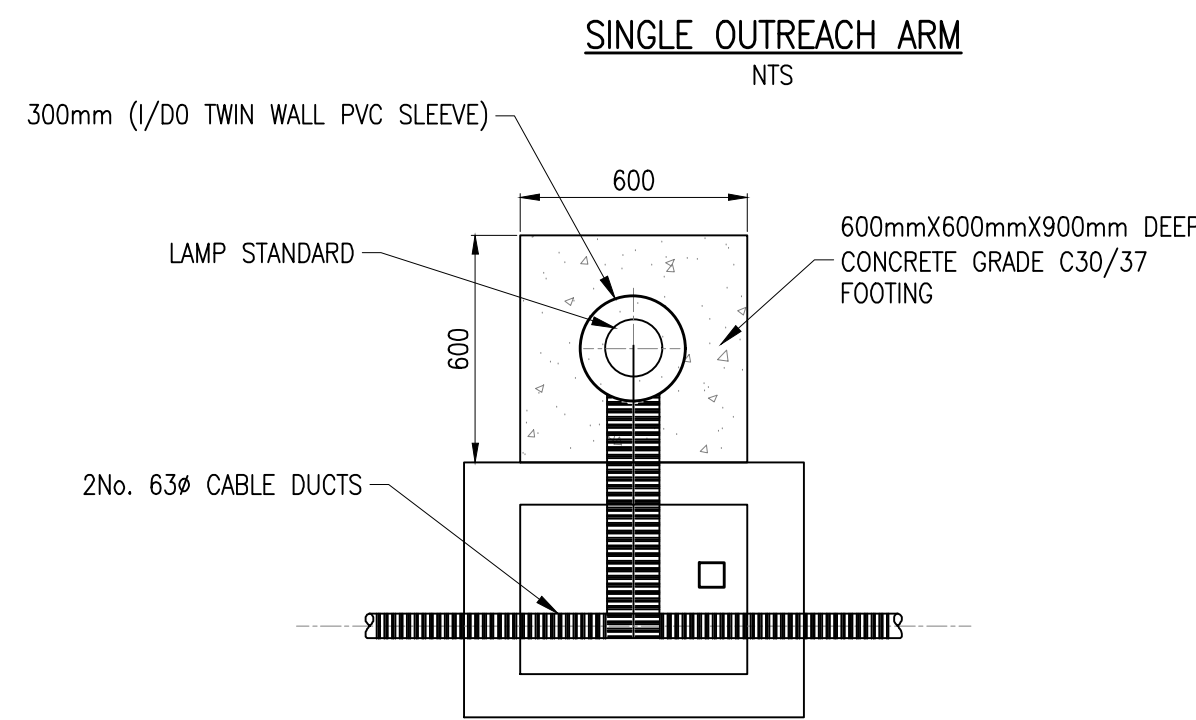
BITUMINOUS PAVEMENT TIE-IN DETAIL
SCALE 1:20



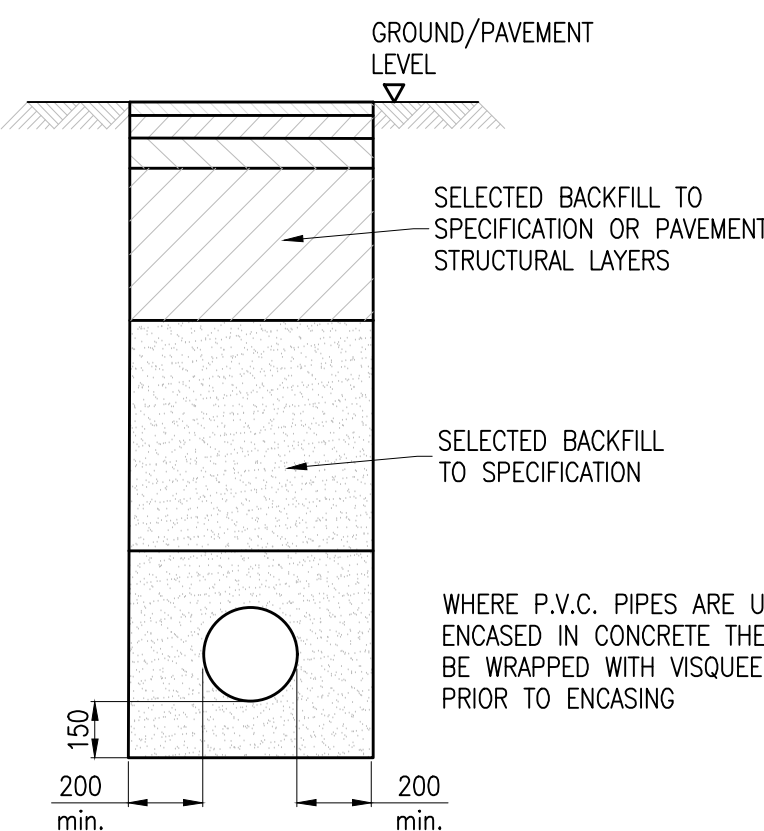
TYPICAL TRENCH DETAIL
SCALE 1:20



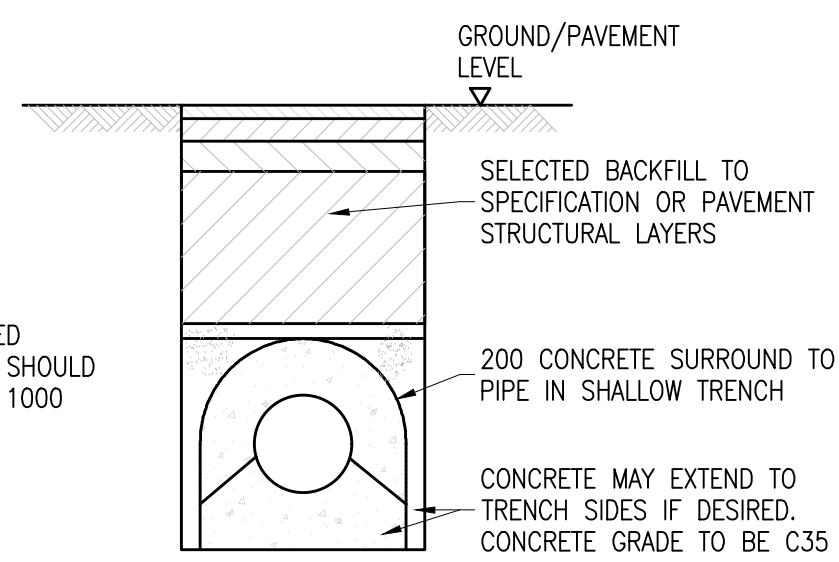
125mm PRECAST KERB
SCALE 1:10



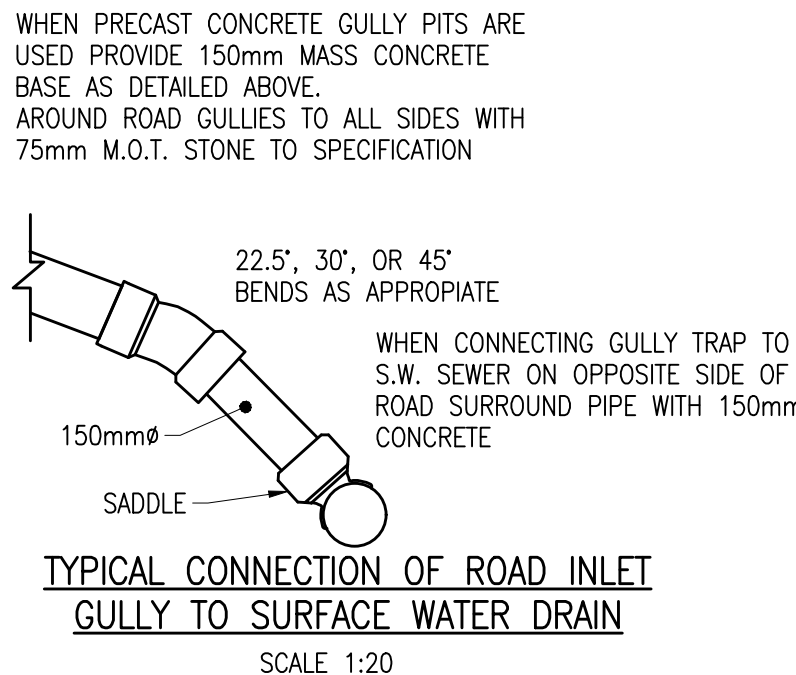
TYPICAL LIGHTING COLUMN PLAN
NTS



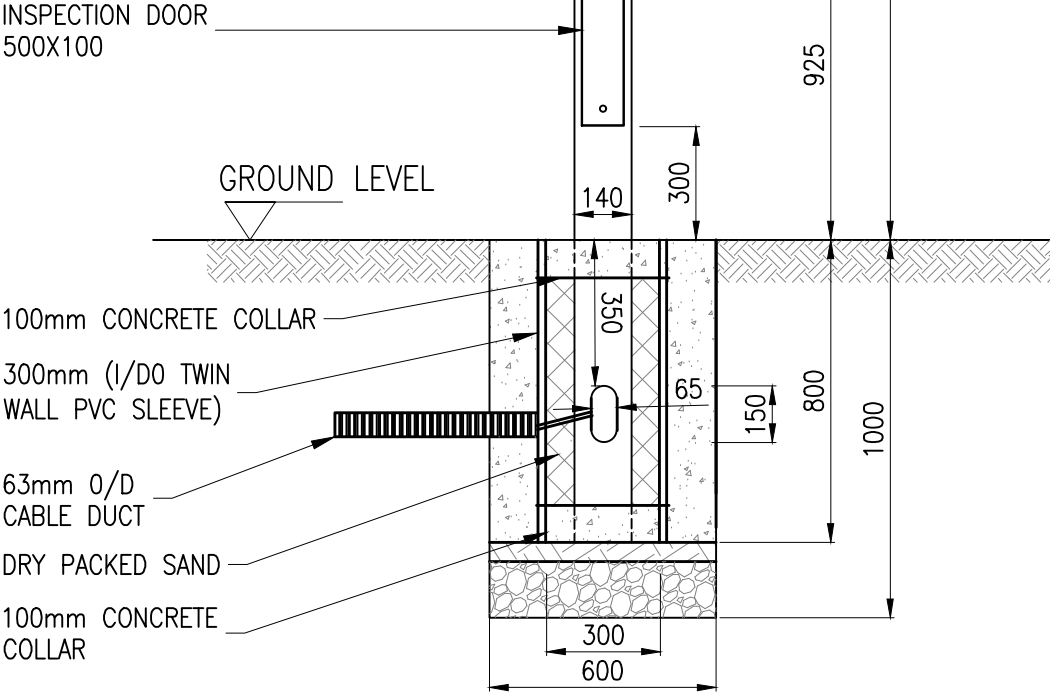
GRANULAR SURROUND DETAIL FOR SEWERS AND DRAINS
SCALE 1:20



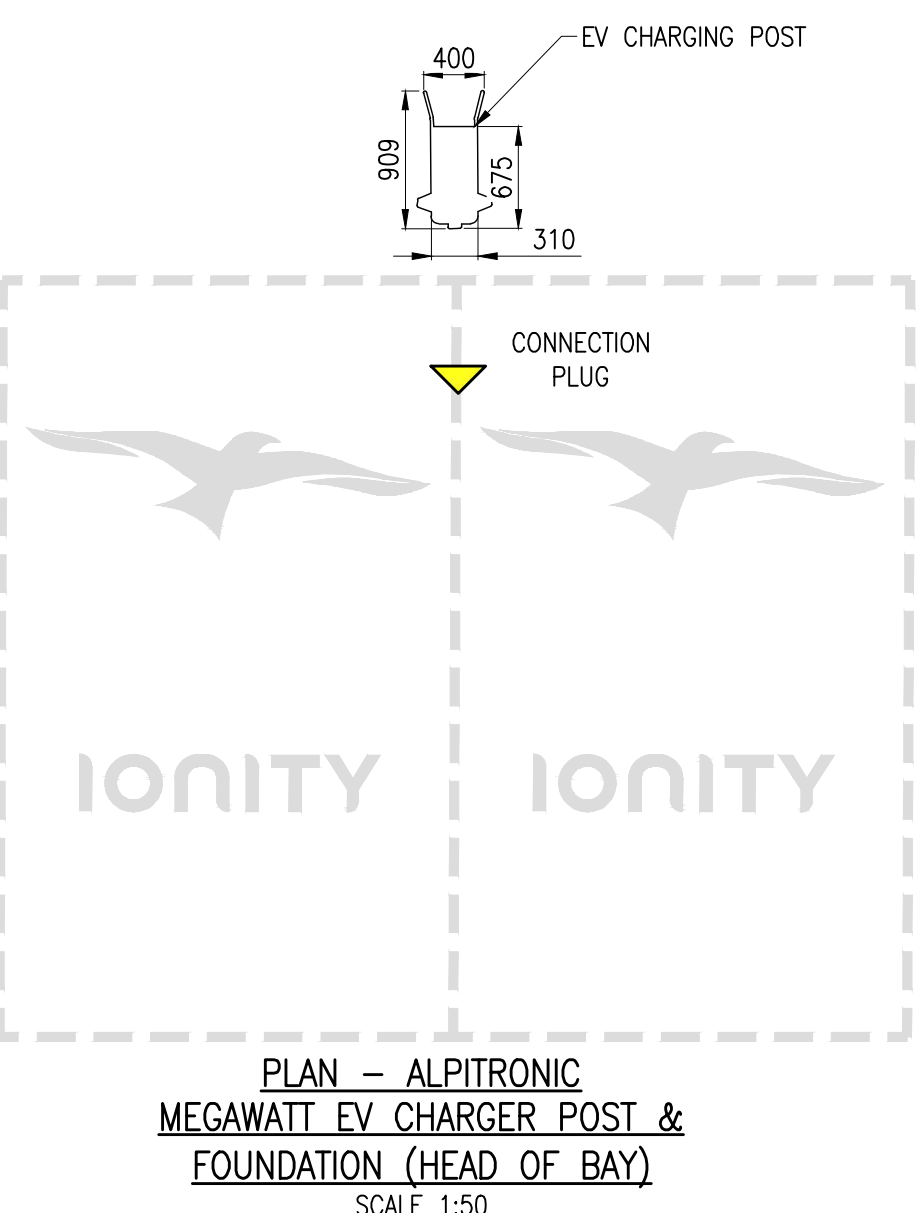
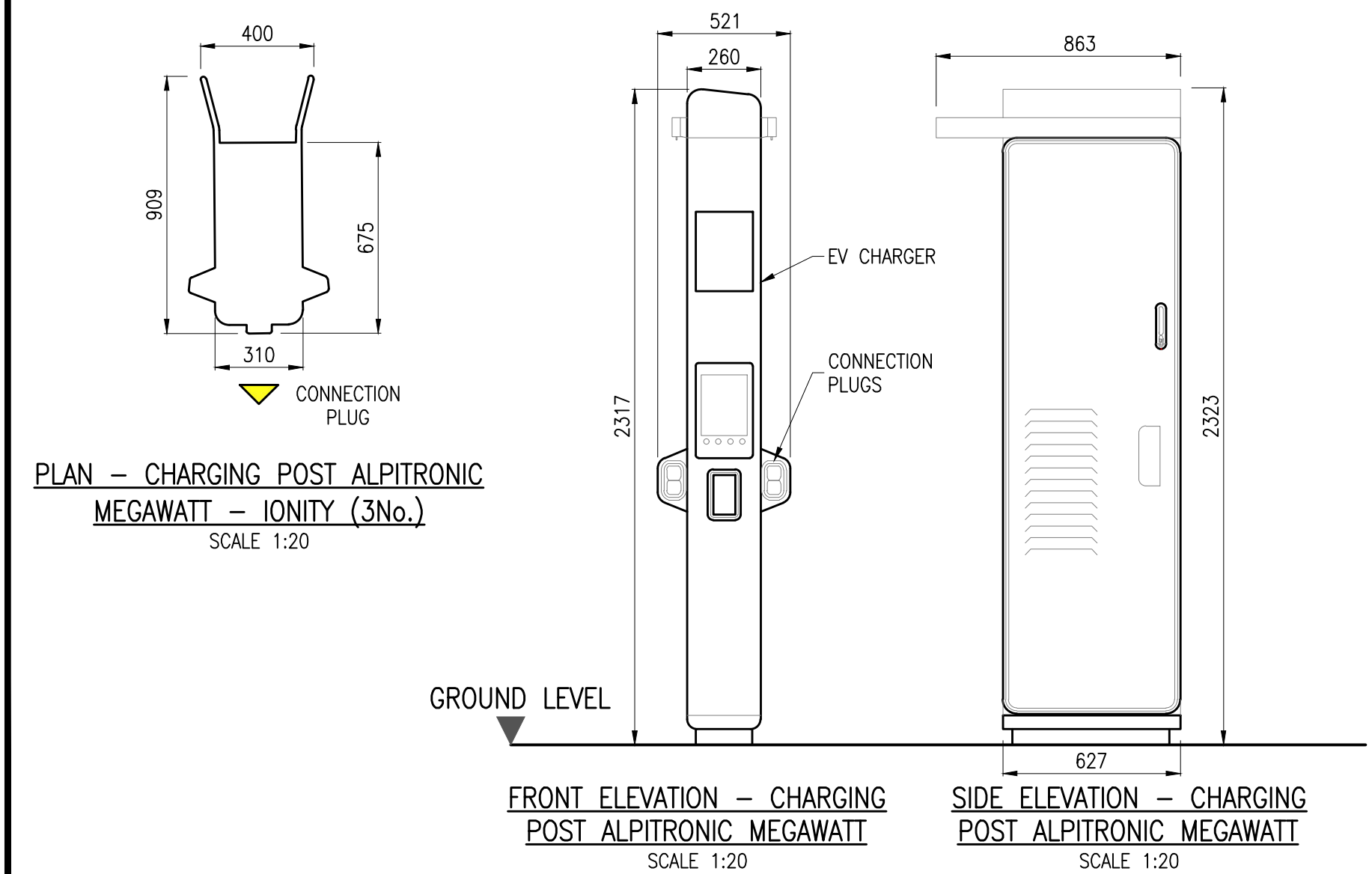
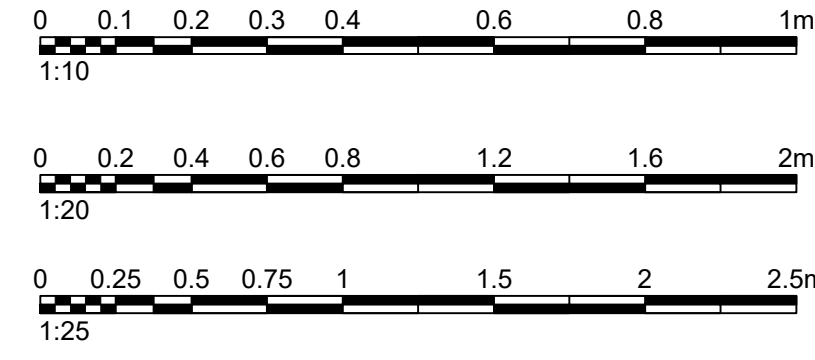
CONCRETE SURROUND DETAIL FOR SHALLOW DRAINS COVER LESS THAN 1.2m IN TRAFFICKED AREAS OR LESS THAN 0.9m IN GREEN AREAS
SCALE 1:20



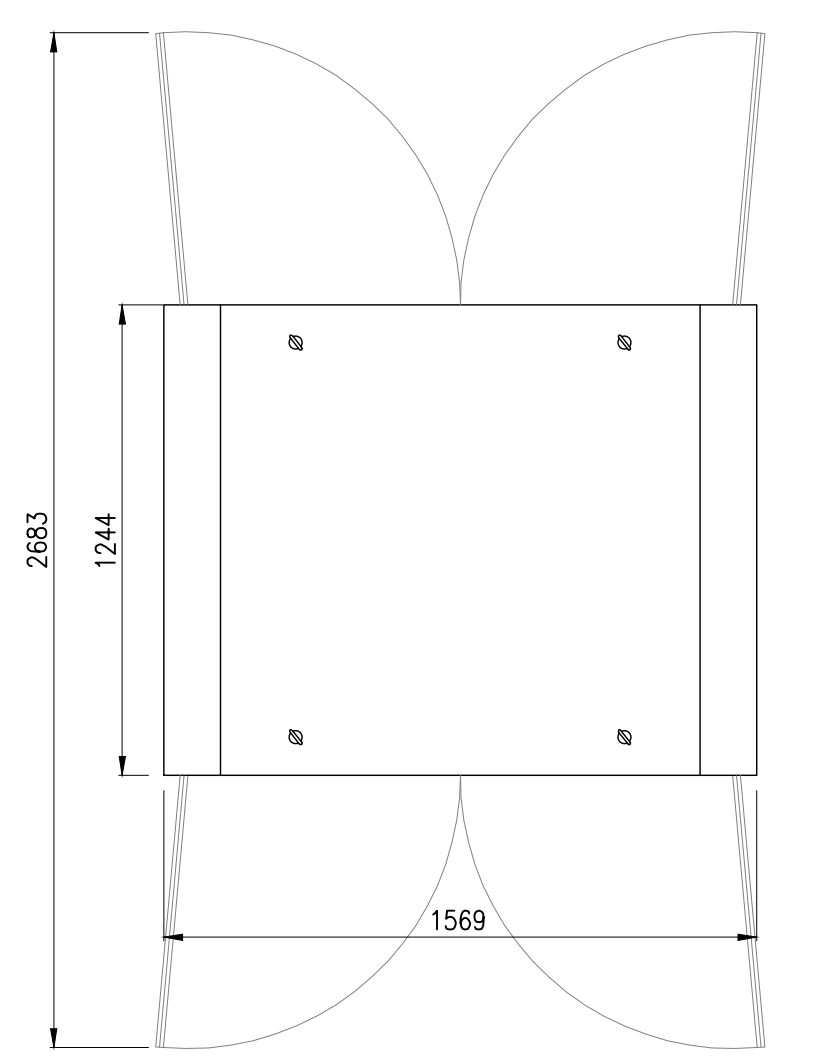
TYPICAL CONNECTION OF ROAD INLET GULLY TO SURFACE WATER DRAIN
SCALE 1:20



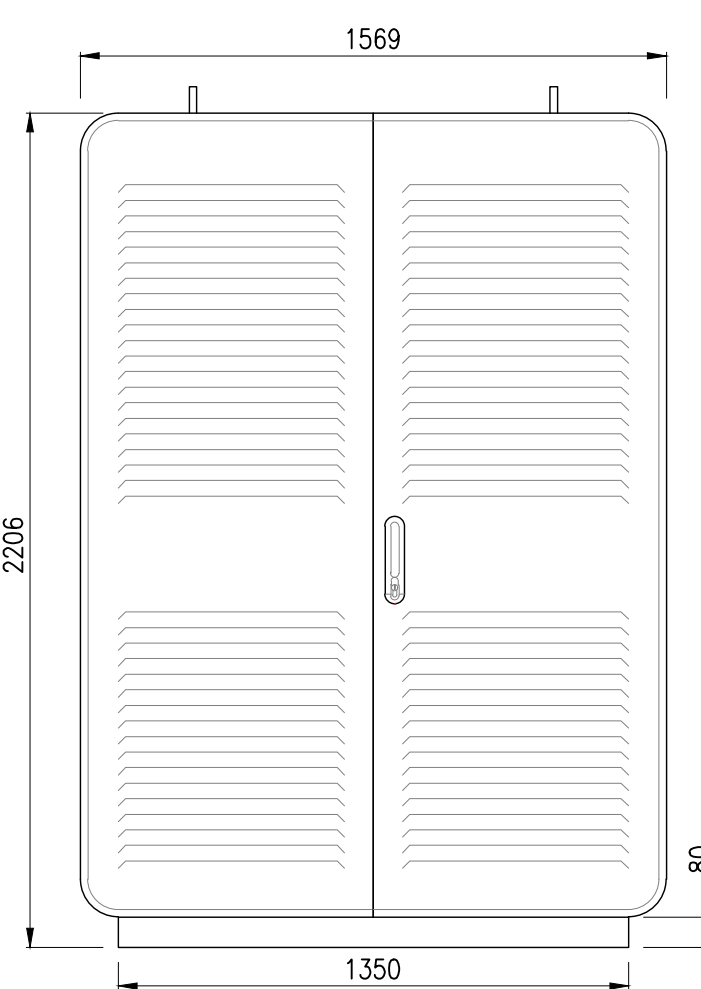
TYPICAL SECTION
NTS



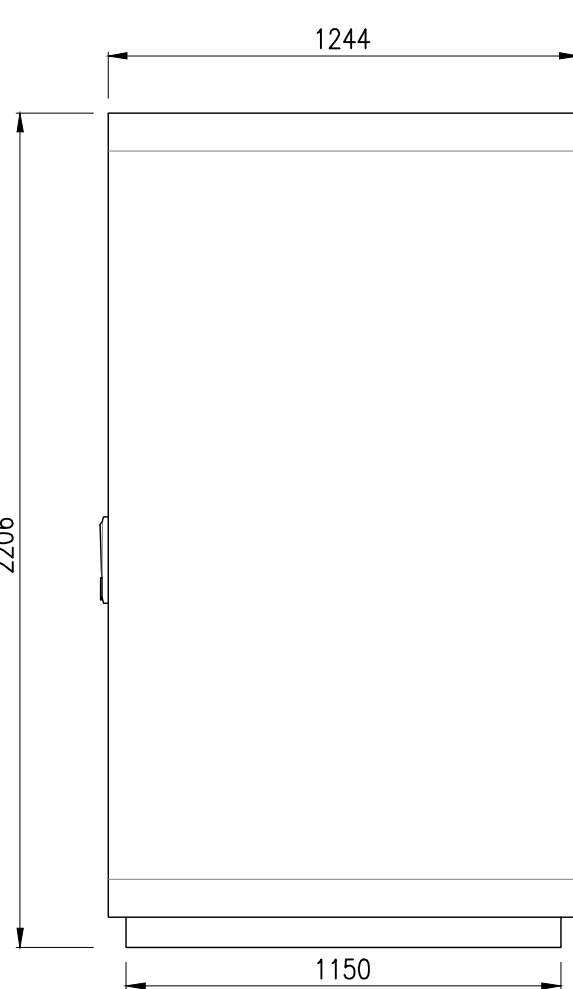
PLAN – ALPITRONIC MEGAWATT EV CHARGER POST & FOUNDATION (HEAD OF BAY)
SCALE 1:50



PLAN ALPITRONIC HYPERUNIT CABINET (1No)
SCALE 1:20



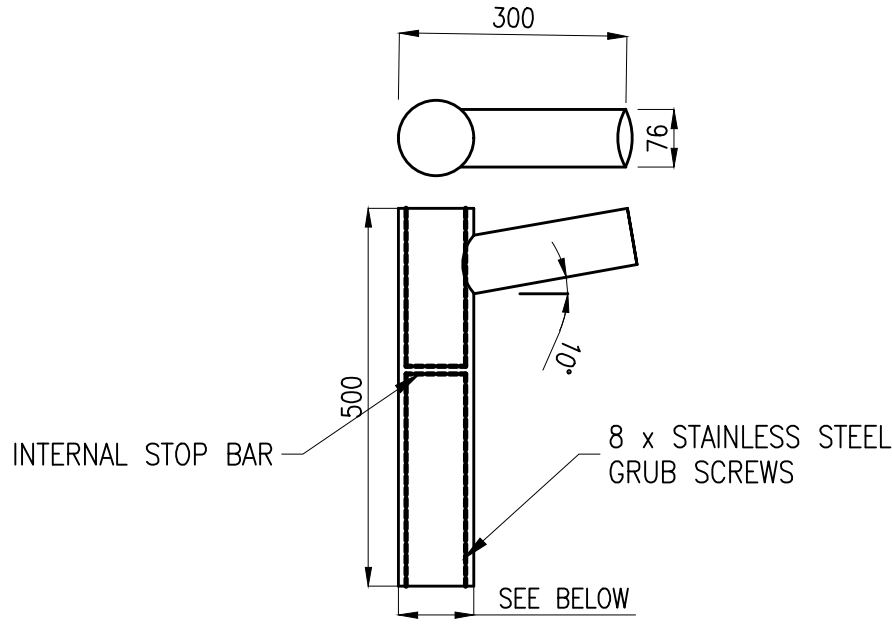
FRONT ELEVATION ALPITRONIC HYPERUNIT CABINET
SCALE 1:20



SIDE ELEVATION ALPITRONIC HYPERUNIT CABINET
SCALE 1:20

ALPITRONIC HYPERUNIT CABINET DETAILS

NOTES:
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NOTE:
SB 15863 TO FIT ON TO 76Dia.
SB 17788 TO FIT ON TO 89Dia.
SB 15865 TO FIT ON TO 101Dia.
SB 17180 TO FIT ON TO 114Dia.

SINGLE OUTREACH ARM
NTS

–	ISSUED FOR PLANNING	CF	05.12.25
Rev.	Description	By	Date

McArdle Doyle
Chartered Engineers
Architectural Services
& Project Managers
mail@mcardle-doyle.ie
+353(0) 42 942 9052

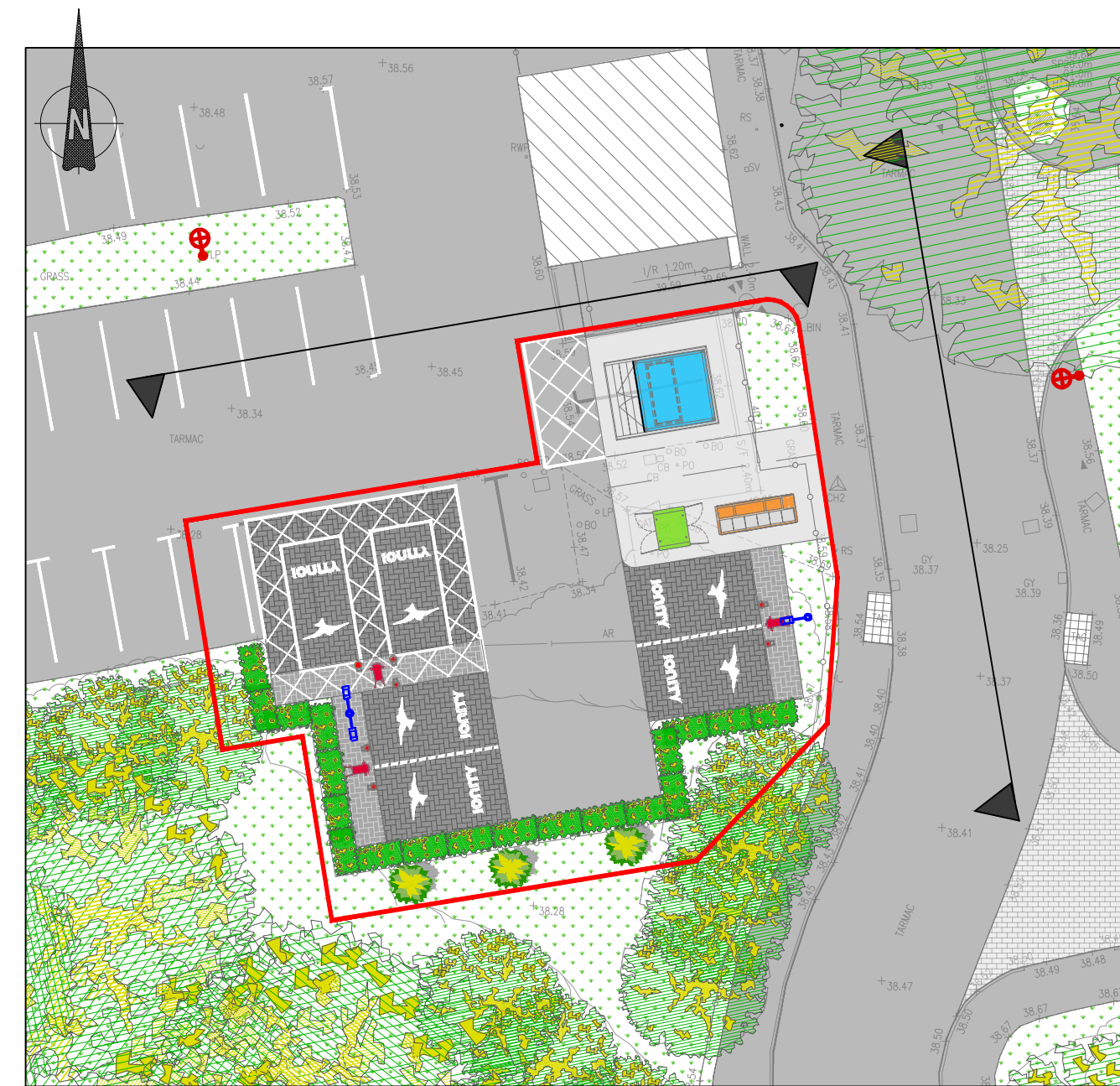
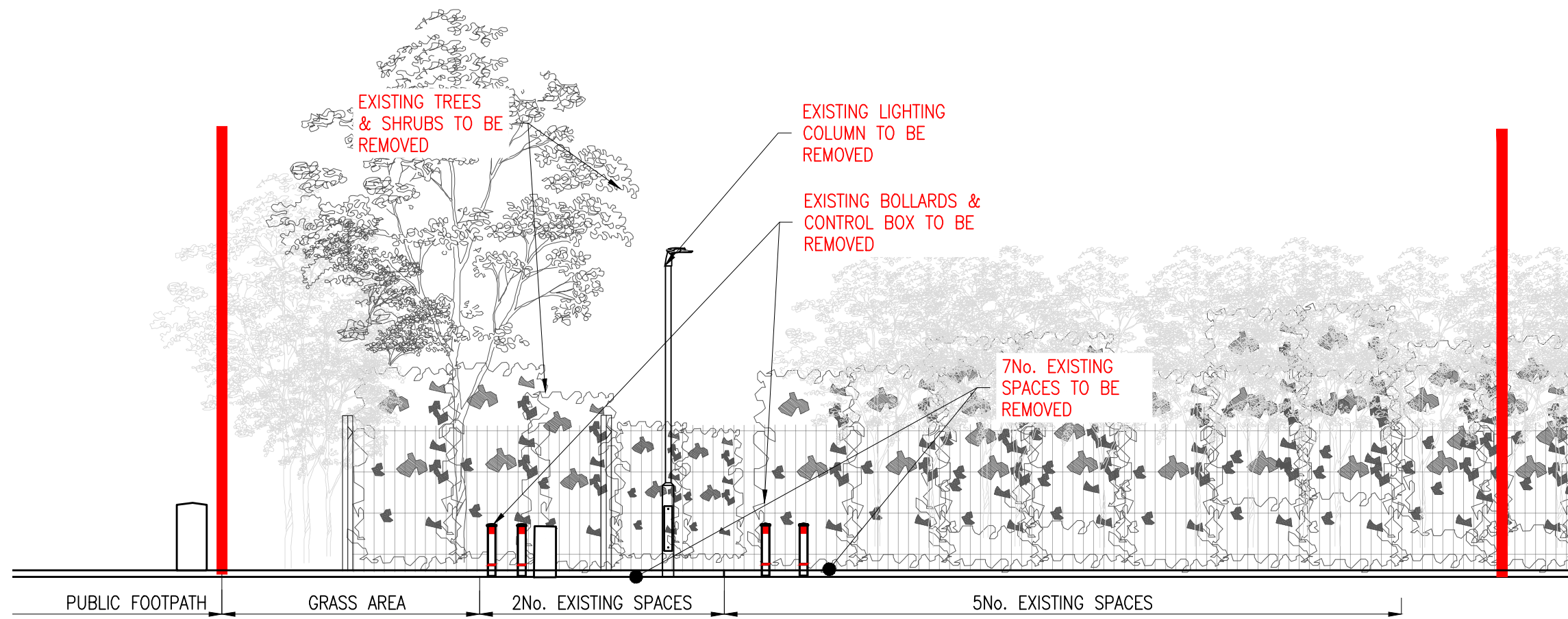
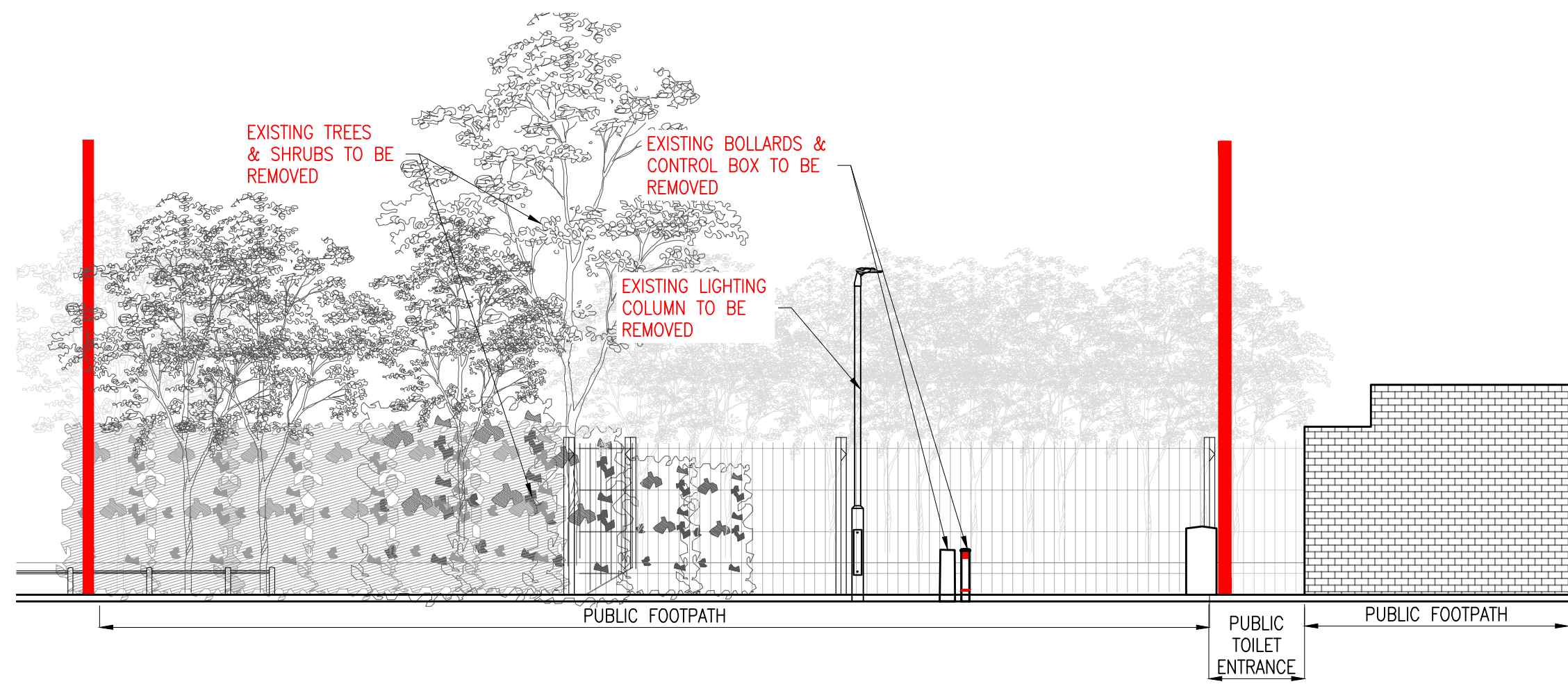
Second Floor
Exchange Building
The Long Walk
Dundalk, Co. Louth

PROJECT:
IONITY FAST CHARGING HUB, VILLAGE HOTEL, READING, UNITED KINGDOM

CLIENT:
IONITY

DRAWING TITLE:
DETAILS SHEET

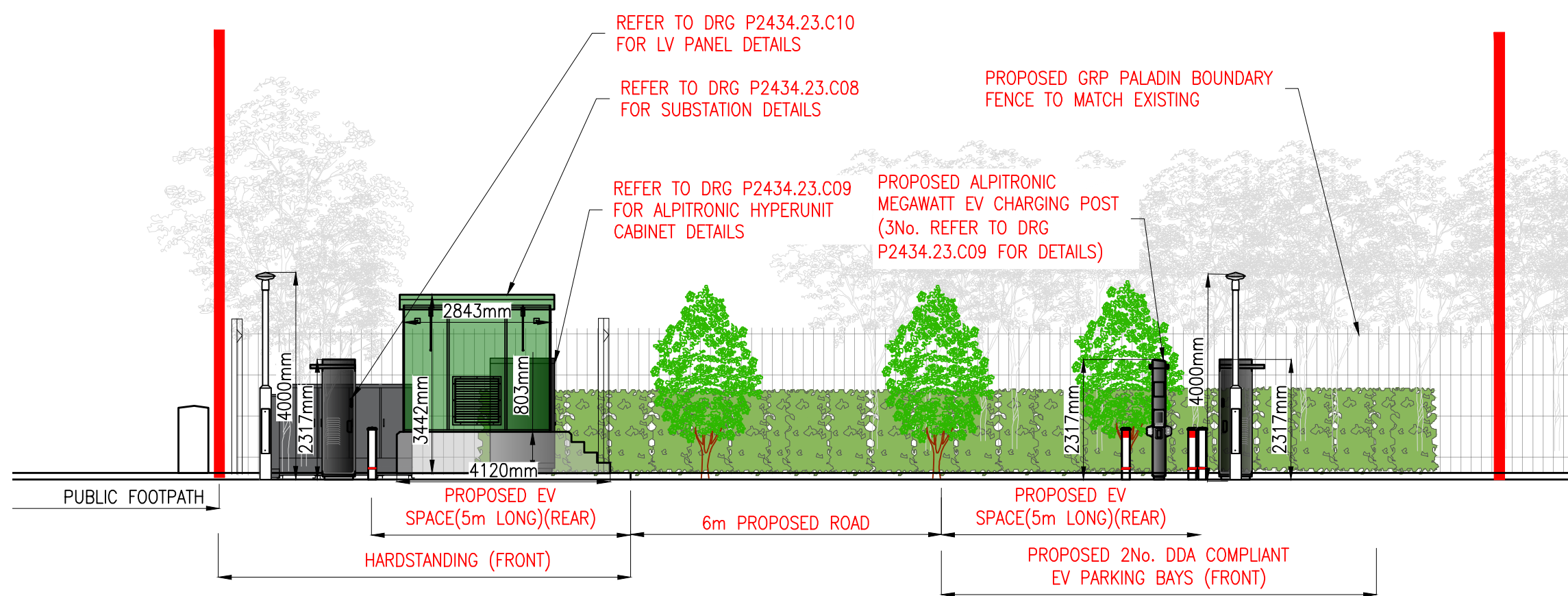
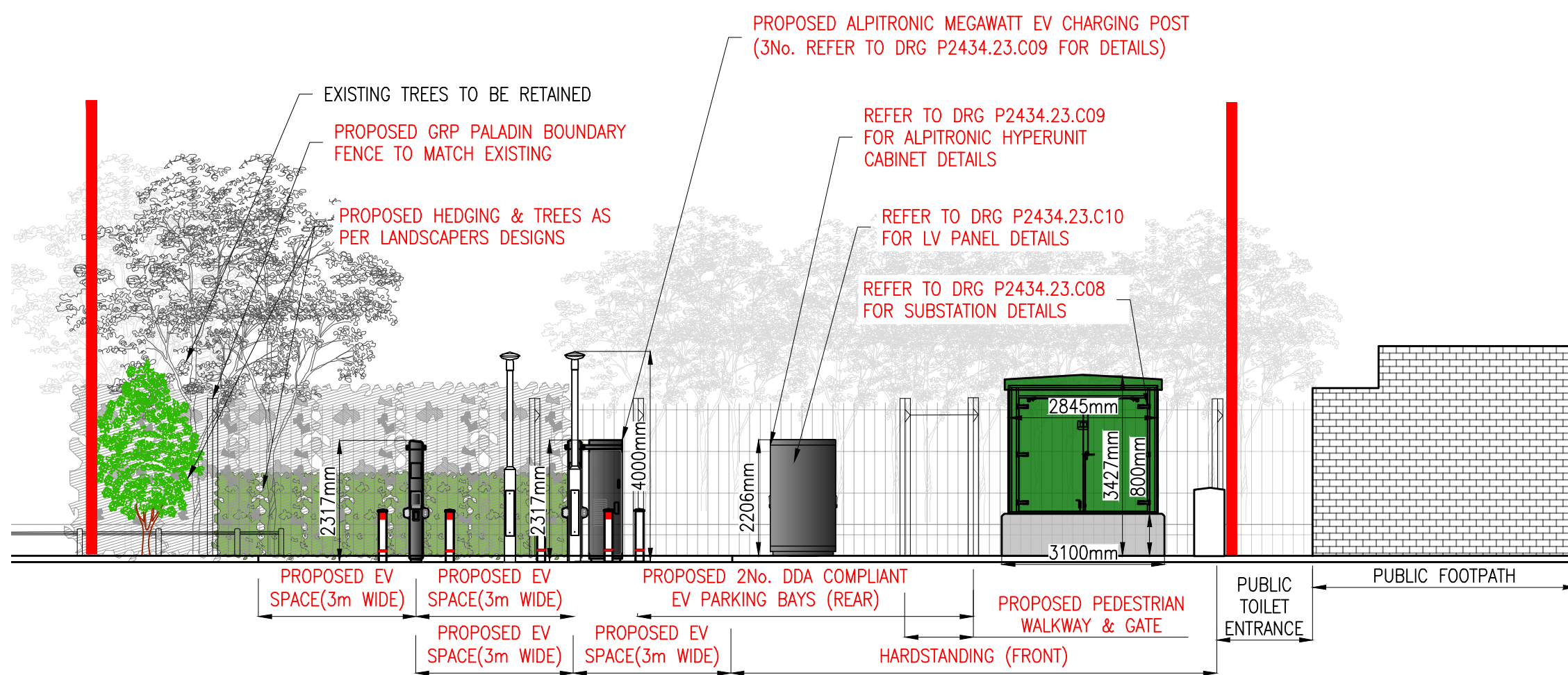
Date 29/08/25	Drawn CF	Checked JR	Approved JF
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SITE PLAN
NTS

LEGEND

PROPOSED SITE BOUNDARY



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McArdle Doyle
Chartered Engineers
Architectural Services
& Project Managers

Second Floor
Exchange Building
The Long Walk
Dundalk, Co. Louth

mail@mcardedoyle.ie
+353(0) 42 942 9052

PROJECT:
IONITY FAST CHARGING HUB, VILLAGE
HOTEL, READING, UNITED KINGDOM

CLIENT:
IONITY

DRAWING TITLE:
EXISTING & PROPOSED
SECTION ELEVATIONS

Date	Drawn	Checked	Approved
29/08/25	CF	JR	JF
Scale at A1 AS SHOWN	Drawing Number P2434.23.C10	Status PL	Rev. -

0 1 2 3 4 6 8 10m
1:100

ALL WORKS TO COMPLY WITH THE CURRENT BUILDING REGULATIONS.

GENERAL NOTES

7. Contractor to establish the location of any existing services and utilities to ensure that new structure does not bear over existing except where shown on drawings.

REPRESENTATION OF BAR REINFORCEMENT

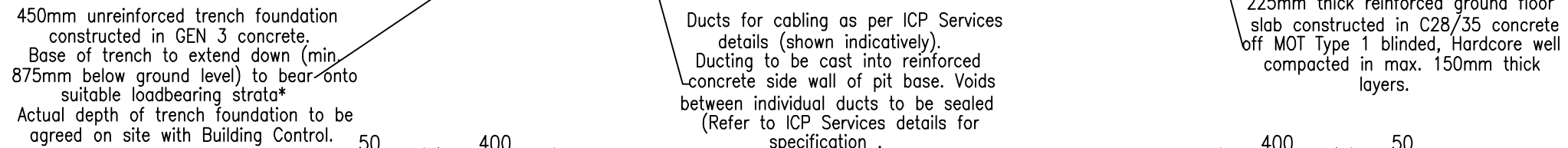
2. Reinforcement bar sizes, shape codes and quantities are listed on Bar Bending Schedule No. 15644--11-1.
3. Unless indicated otherwise on schedule, all bars to be 500MPa high yield (H) in accordance with BS 8866:2005.
4. All corner bars in reinforced walls to be laid in threes.

REINFORCED CONCRETE NOTES

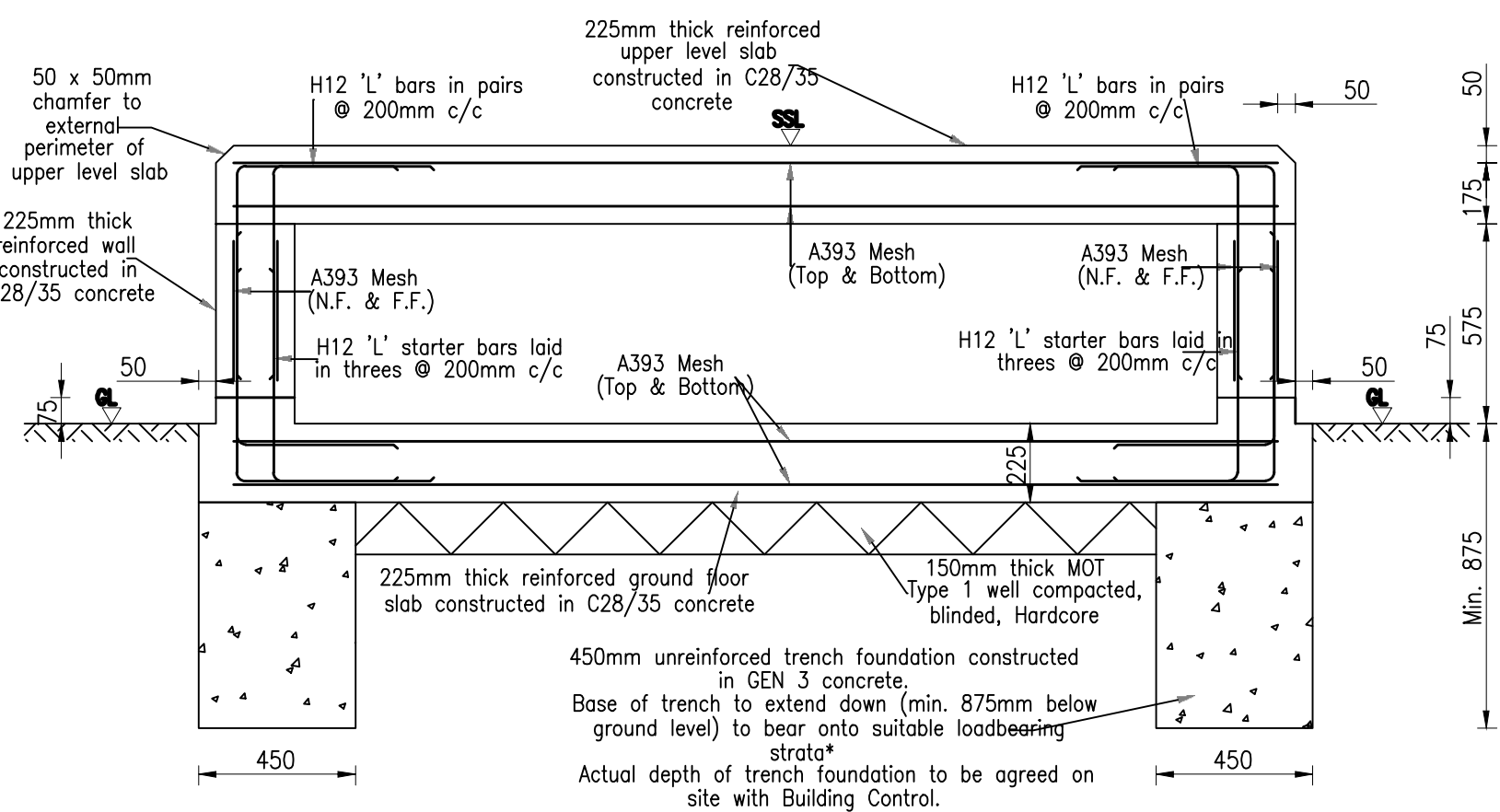
- Assumed Design Sulphate Class = DS-1 (subject to results of Ground Investigation by Others)
 - Assumed Aggressive Chemical Class = ACCE-1 (subject to results of Ground Investigation by Others)
 - Assumed Design Chemical Class = DC-1 (subject to results of Ground Investigation by Others)
3. Aggregate size to be 20mm maximum.
 4. Cover to reinforcement to be min. 35mm unless shown otherwise.
 5. Reinforcement mesh to be supported with proprietary chairs.
 6. Structural 'B' mesh (where specified) to be orientated as shown on plan.
 7. Mesh must not be trodden into concrete surface.
 8. Reinforcement should be set out using ties & spacers in accordance with BS 7973-2 : 2001.
 9. Damp proof membrane (DPM) to be provided beneath internal ground floor slabs which are laid on top of a minimum 150mm thick well compacted Type 1 hardcore sub-base.

REPRESENTATION OF BAR REINFORCEMENT

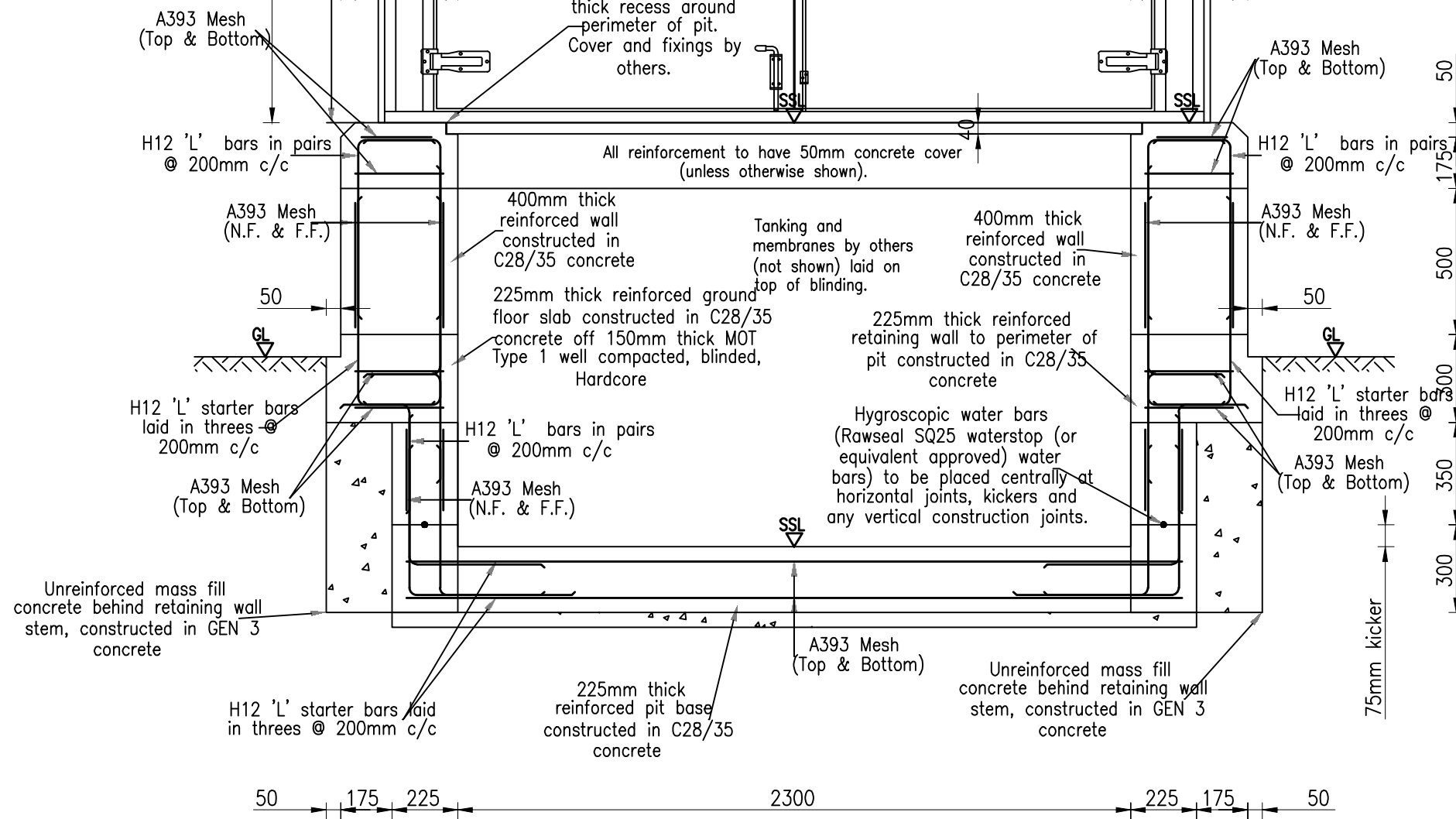
2. Reinforcement bar sizes, shape codes and quantities are listed on Bar Bending Schedule No. 15644-11-1
3. Unless indicated otherwise on schedule, all bars to be 500MPa high yield (H) in accordance with BS 8866:2005.
4. All corner bars in reinforced walls to be laid



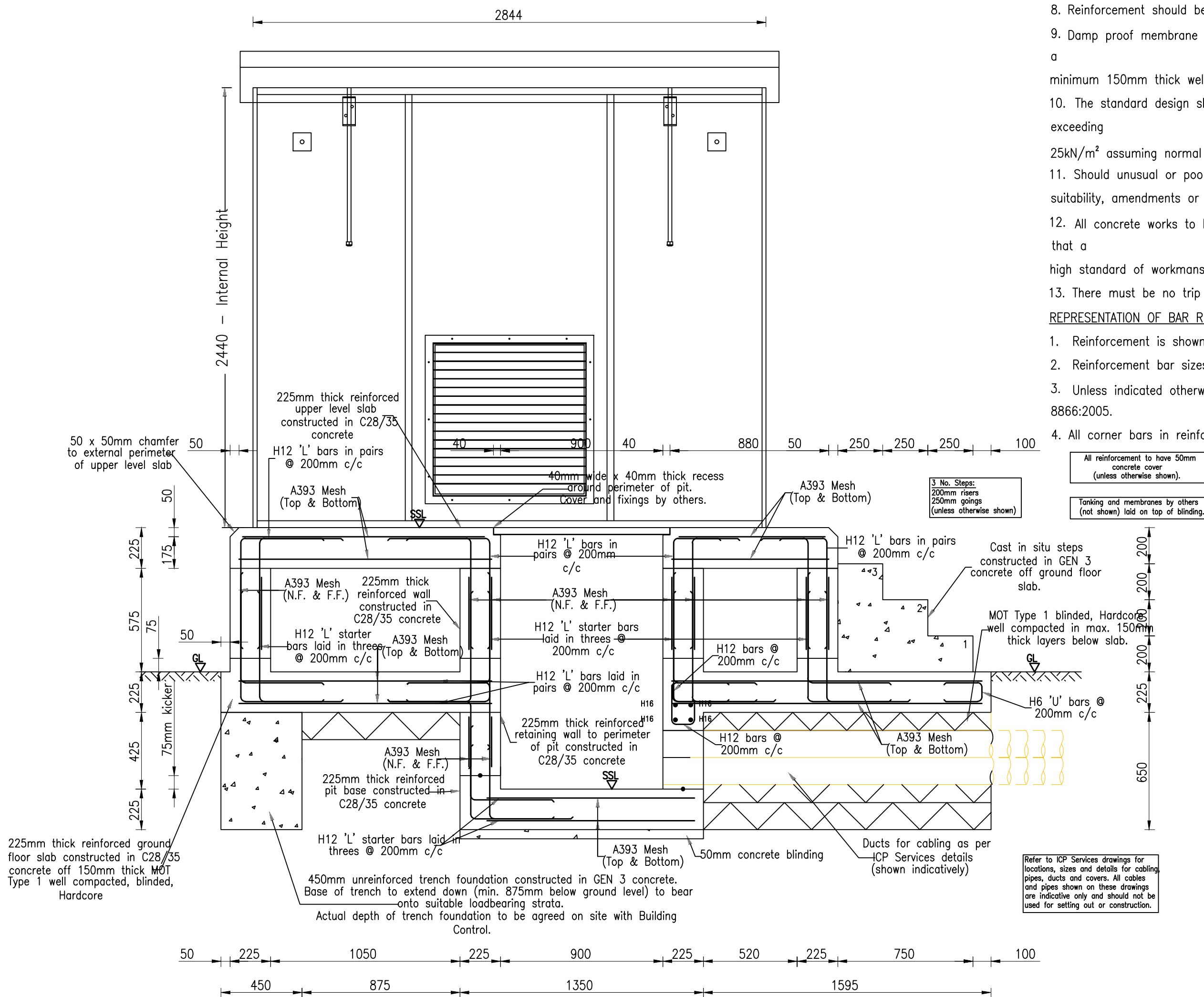
FRONT ELEVATION ON SUBSTRUCTURE SHOWING EXTERNAL STAIRS



SECTION X - X

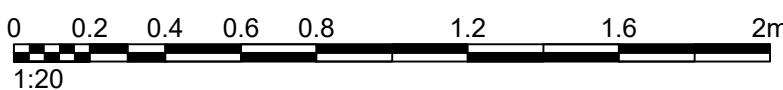


SECTION Z - Z



SECTION Y - Y

NOTE:
SUBSTATION INCLUDING BASE
& BY DUCTING OTHERS



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Rev.	Description		By	Date

McArdle Doyle			
Chartered Engineers Architectural Services & Project Managers		Second Floor Exchange Building The Long Walk Dundalk, Co. Louth mail@mcardledoyle.ie +353(0) 42 942 9052	
PROJECT: IONITY FAST CHARGING HUB, VILLAGE HOTEL, READING, UNITED KINGDOM			
CLIENT: 			
DRAWING TITLE: PROPOSED IONITY SUBSTATION DETAIL			
Date 29/08/25	Drawn CF	Checked JR	Approved JF
Scale of A1 1:20	Drawing Number P2434.23.C11		Status PL
		Rev. -	