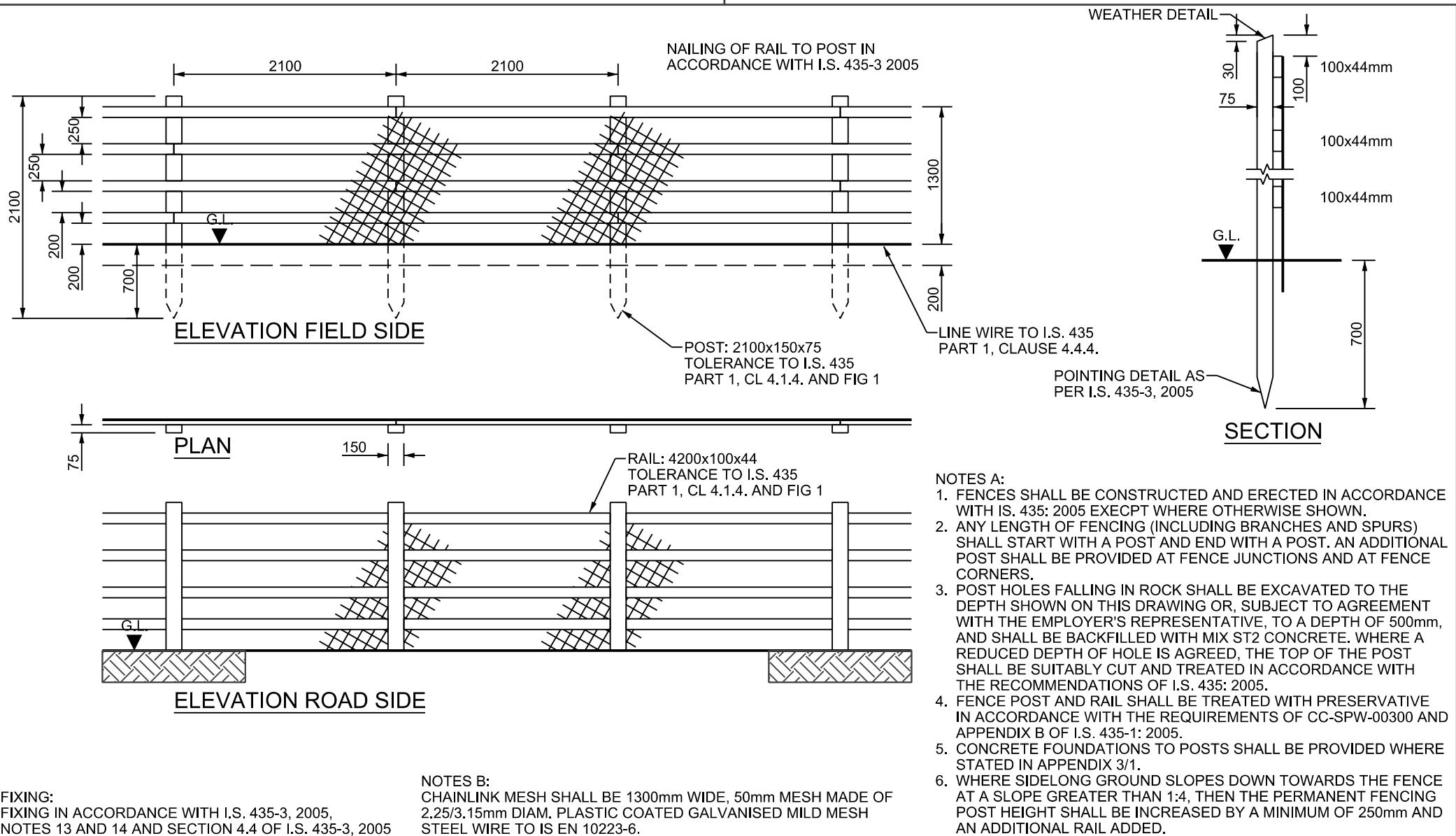


Appendix A.5.4

Standard Construction Details

A.5.4 Standard Construction Details



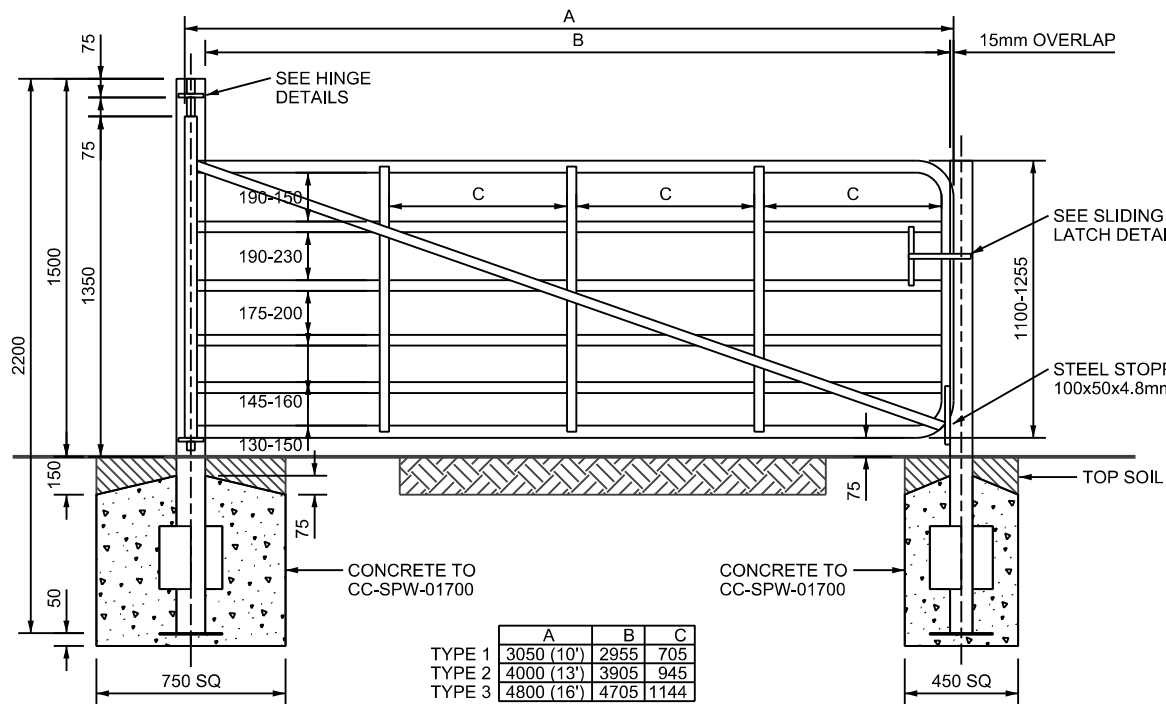
ACTIVITY

CC Construction & Commissioning

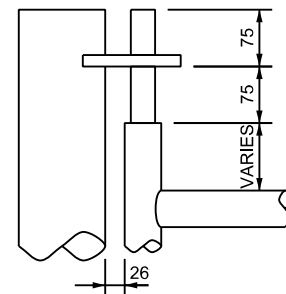
STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

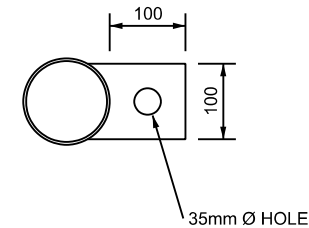
PUBLICATION TITLE						
FENCING TIMBER POST AND RAIL FENCE						
HISTORICAL REFERENCE		DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER		
RCD/300/1		STANDARDS	JANUARY 2009	ACTIVITY CC	STREAM SCD	DRAWING NUMBER 00301



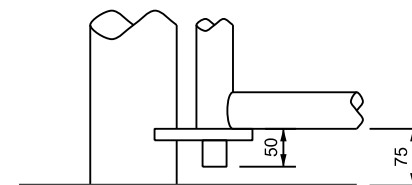
MATERIAL DESCRIPTION	SIZE	FIXINGS
HANGING POST (TUBULAR STEEL)	114.3mm EXT. DIA. 3.6mm THICK	CAP PLATES 4.8mm THICK. BASE PLATES 250x250x4.8mm THICK CAP & BASE PLATES TO BE CONTINUOUSLY FLUSH WELDED TO TUBE.
SHAPING POST (TUBULAR STEEL)	88.9mm EXT. DIA. 3.2mm THICK	WING PLATES 250x250x4.8mm THICK STITCH WELDED TO POST.
MAIN FRAME (TUBULAR STEEL)	48.3mm EXT. DIA. 2.9mm THICK	
INFILL HORIZONTAL RAILS (TUBULAR STEEL)	42.4mm EXT. DIA. 2.6mm THICK	
BRACES (FLAT STEEL) 3 VERTICAL, 2 DIAGONAL	38x4.8mm	FILLET WELDED TO EACH GATE MEMBER CROSSED BY BRACES.
MESH FABRIC (IF SPECIFIED)	51mm SQ.x4.1mm Ø STEEL SQUARE WELDED MESH FABRIC.	



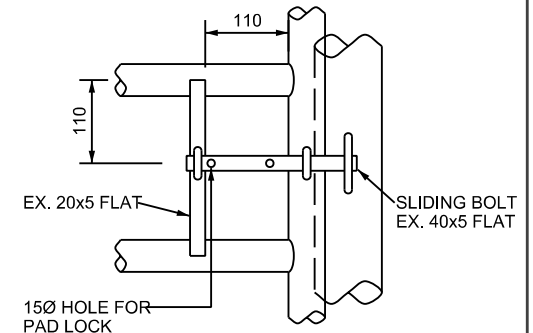
**TOP HINGE
ELEVATION**



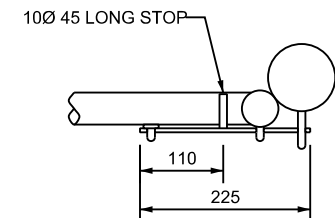
PLAN



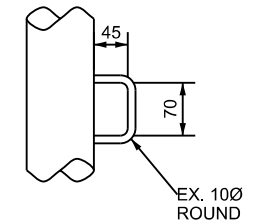
HINGE DETAILS



ELEVATION



PLAN



**SLIDING BOLT
LATCH DETAIL**

NOTES :-

- ALL DIMENSIONS ARE IN MILLIMETRES.
- GATES SHALL COMPLY WITH THE APPROPRIATE CLAUSES IN CC-RMP-00300 AND ANY FURTHER REQUIREMENTS IN APPENDIX 1/15 OR 3/1.
- GATES SHALL OPEN INWARD FROM THE ADJACENT CARRIAGEWAY INTO THE OWNERS PROPERTY.
- HINGES AND LATCH AS DETAILED.
- THE CORNERS OF THE MAIN FRAME MAY BE ROUNDED OR MITRED.
- GATES & FITTINGS SHALL BE GALVANISED TO COMPLY WITH IS EN 10240 UNLESS ALTERNATIVE PROTECTIVE TREATMENT DESCRIBED IN APPENDIX 1/15 OR 3/1.
- GATE STOPS TO BE PROVIDED IN ACCORDANCE WITH CC-SCD-00314.



ACTIVITY



**Construction &
Commissioning**

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

PUBLICATION TITLE

**GATES
STEEL SINGLE FIELD GATE**

HISTORICAL REFERENCE

RCD/300/9

DOCUMENTATION SET

STANDARDS

PUBLICATION DATE

JANUARY 2007

PUBLICATION NUMBER

ACTIVITY

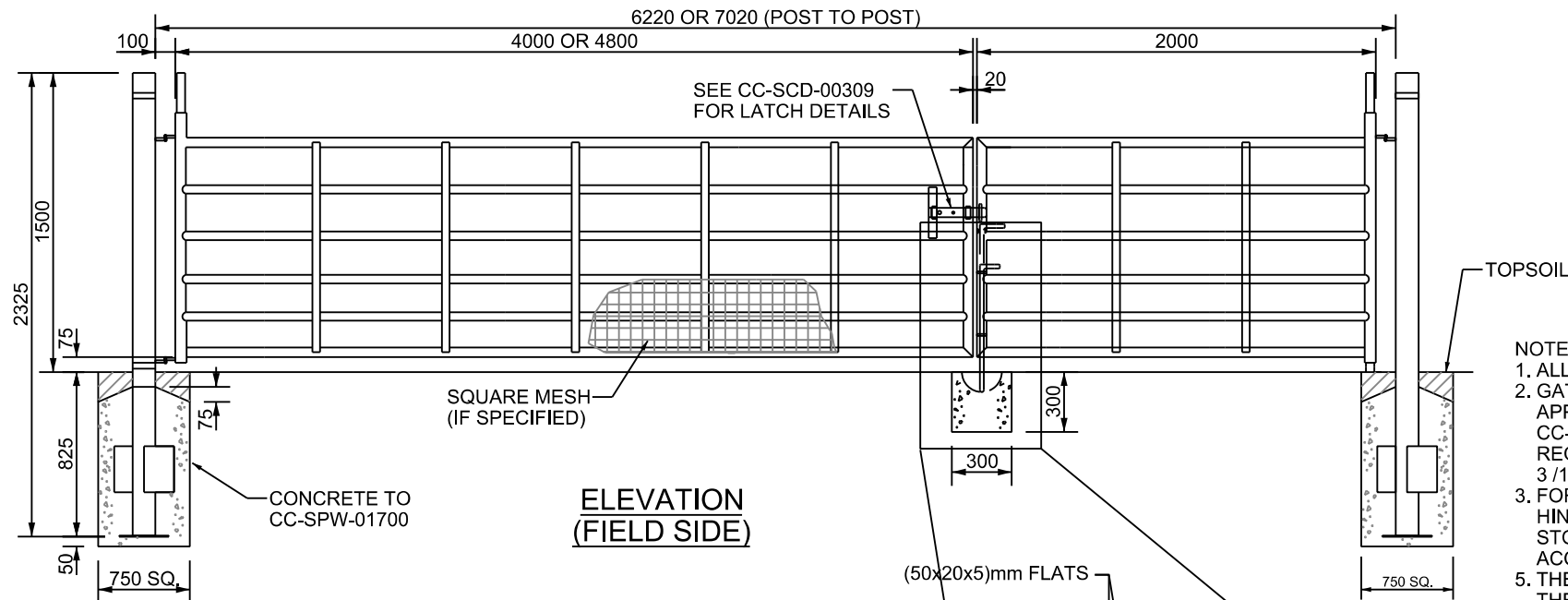
CC

STREAM

SCD

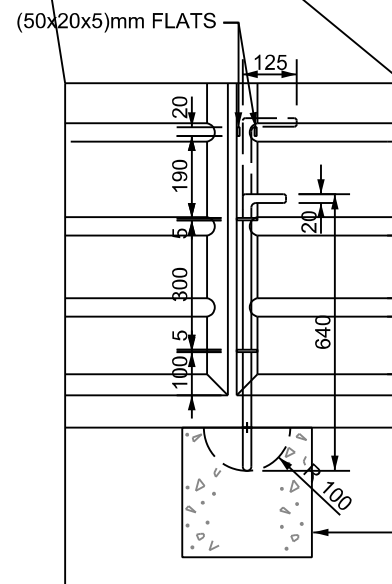
DRAWING NUMBER

00309



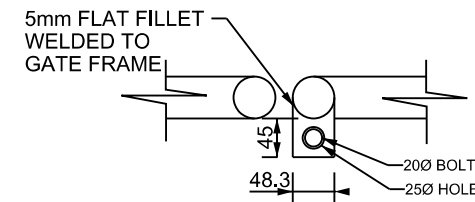
**ELEVATION
(FIELD SIDE)**

DESCRIPTION OF MATERIAL	SIZE	FIXINGS AND FITTINGS
POST (TUBULAR STEEL)	114.3 OUTER DIA x3.6 THICK	TOP CAPPING PLATE 4.8 THICK, TWO 250x250x4.8 WING PLATES STITCH WELDED TO POST, BASE PLATE 250x250x4.8, CAP AND BASE PLATE TO BE CONTINUOUSLY FLUSH WELDED TO TUBE.
OUTER FRAMES (TUBULAR STEEL)	48.3 OUTER DIA x2.9 THICK	
INFILLING HORIZONTAL RAILS (ALL TUBULAR STEEL)	42.4 OUTER DIA x2.6 THICK	
4 VERTICAL BRACES (FLAT STEEL)	38x4.8	FILLET WELDED TO EACH GATE MEMBER CROSSED BY BRACES.
MESH FABRIC (IF SPECIFIED)	51mm SQ.x 4.1mm Ø STEEL SQUARE WELDED MESH FABRIC	



(300x300x300)mm
CONCRETE BLOCK WITH
25mmX100mmR SLOT

- NOTES:-**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. GATES SHALL COMPLY WITH THE APPROPRIATE CLAUSES IN CC-SCD-00300 AND ANY FURTHER REQUIREMENTS IN APPENDIX 1 /15 OR 3 /1.
 3. FOR DETAILS OF LATCHES AND HINGES SEE CC-SCD-00309. GATE STOPS TO BE PROVIDED IN ACCORDANCE WITH CC-SCD-00314.
 5. THE GATE SHALL OPEN INWARD FROM THE ADJACENT CARRIAGEWAY INTO THE OWNER'S PROPERTY.
 6. THE CORNERS OF THE MAIN FRAME MAY BE ROUNDED OR/AND MITERED.
 7. GATE TO BE GALVANISED TO COMPLY WITH IS EN 10240 UNLESS ALTERNATIVE PROTECTIVE TREATMENT DESCRIBED IN APPENDIX 1 /15 OR 1 /3.



SECTION A-A



ACTIVITY



**Construction &
Commissioning**

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

PUBLICATION TITLE

**GATES
STEEL DOUBLE FIELD GATE**

HISTORICAL REFERENCE

SCD/300/10

DOCUMENTATION SET

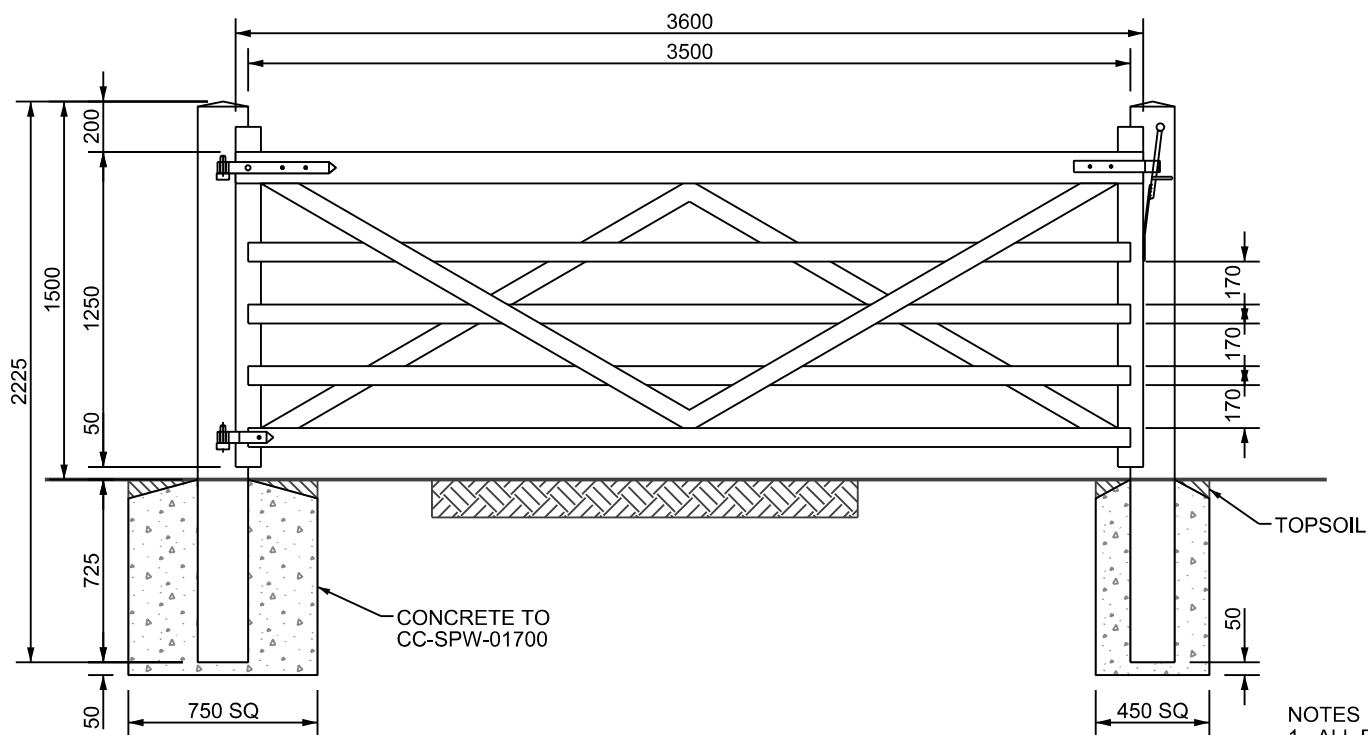
STANDARDS

PUBLICATION DATE

AUGUST 2010

PUBLICATION NUMBER

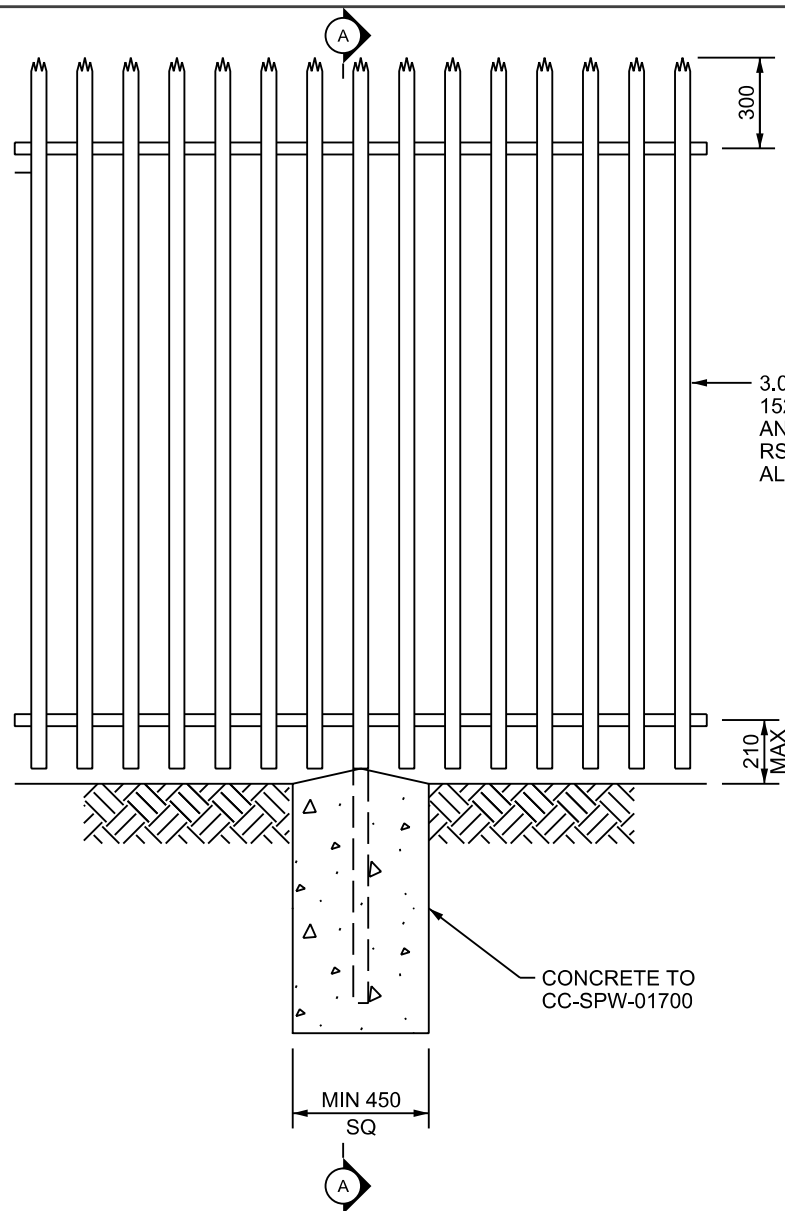
ACTIVITY	STREAM	DRAWING NUMBER
CC	SCD	00310



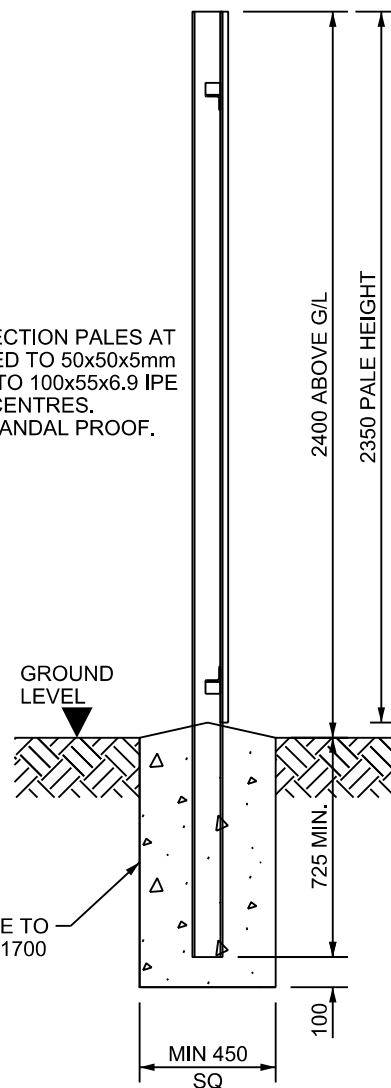
DESCRIPTION OF TIMBER MATERIALS	SIZES
HANGING POST	200x200x2225 LONG
SHUTTING POST	175x175x2225 LONG
HANGING STILE	100x100
SHUTTING STILE	100x100
TOP RAIL	100x125
UNDER RAILS	75x38
BRACES HOUSED IN TOP RAIL	75x25

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMITRES UNLESS OTHERWISE STATED.
2. GATES SHALL COMPLY WITH THE APPROPRIATE CLAUSES IN CC-SCD-00300 AND ANY FURTHER REQUIREMENTS IN APPENDIX 1/15 OR 3/1.
3. ALL THROUGH TENONS SHALL BE PEGGED WITH 13Ø OAK DOWELS.
4. FOR DETAILS OF FITTINGS FOR HANGING AND FASTENING SEE CC-SCD-00313 AND CC-SCD-00314.
5. THE GATE SHALL BE HUNG AS SHOWN FOR SELF CLOSING WITH SELF LATCHING STOP POST AS SHOWN ON CC-SCD-00314.
6. THE GATE SHALL OPEN INWARD FROM THE ADJACENT CARRIAGEWAY INTO THE OWNER'S PROPERTY.
7. TIMBER TO BE TREATED IN ACCORDANCE WITH I.S. 435.



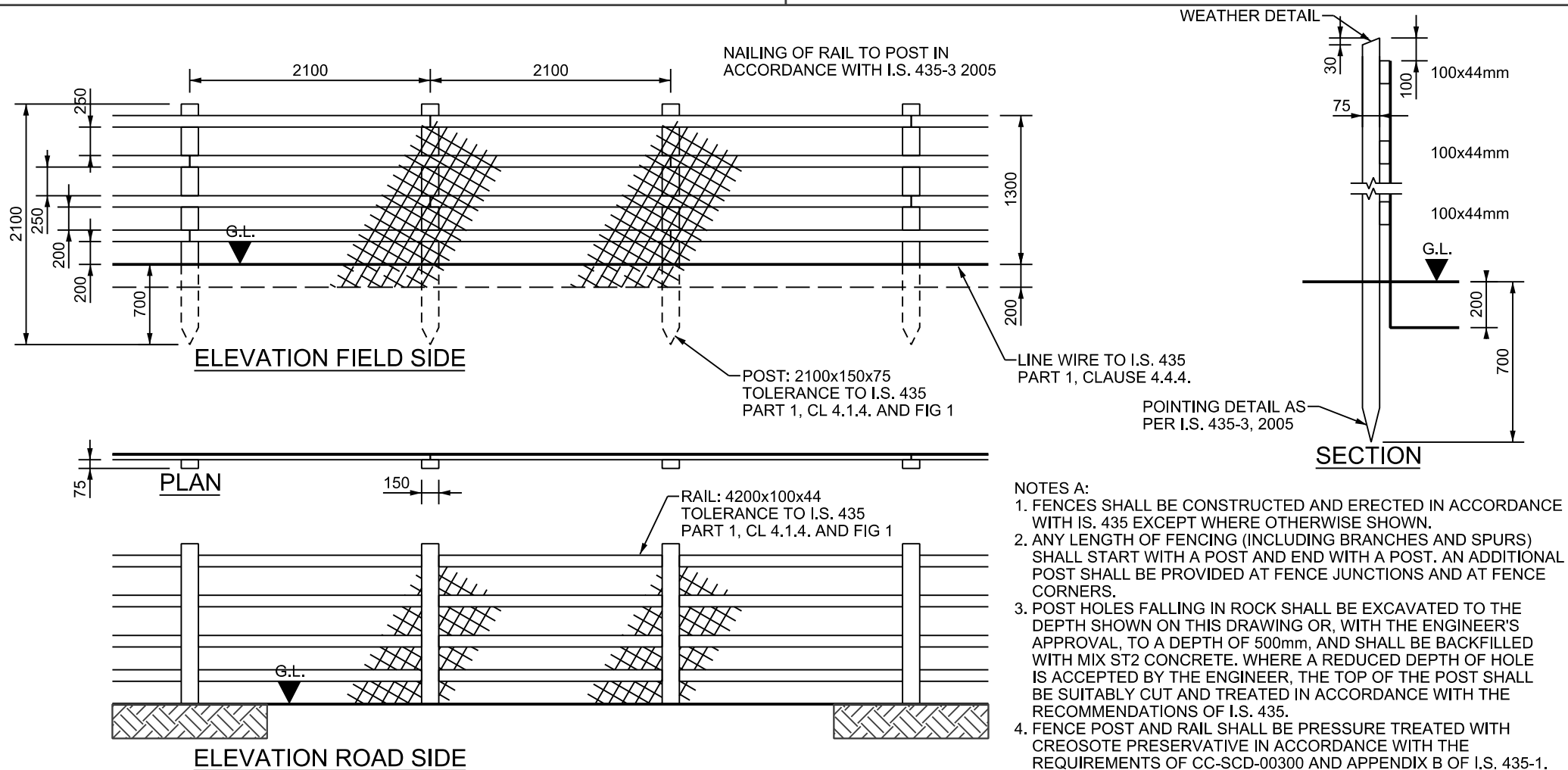
3.0mm MINIMUM D-SECTION PALES AT 152 CENTRES WELDED TO 50x50x5mm ANGLE RAILS FIXED TO 100x55x6.9 IPE RSJ POST AT 2.75M CENTRES. ALL FIXINGS TO BE VANDAL PROOF.



SECTION A - A

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL MATERIAL SHALL BE GALVANISED TO EN ISO 1461.
3. THE PALE HEADS MAY BE EITHER DOME OR TRIAD UNLESS SPECIFIED.
4. PALES SHALL BE SECURED TO RAILS AT EVERY INTERSECTION BY MEANS OF WELDING. WELDING SHALL CONSIST OF 3mm FILLET WELDS AT EACH SIDE OF THE PALE.
5. TOP OF THE CONCRETE FOUNDATION TO BE SLOPED TO DRAIN.



FIXING:
FIXING IN ACCORDANCE WITH I.S. 435-3, 2005,
NOTES 13 AND 14 AND SECTION 4.4 OF I.S. 435-1, 2005

NOTES B:
CHAINLINK MESH SHALL BE 1800mm WIDE, 50mm MESH MADE
OF 2.25/3.15mm Ø. PLASTIC COATED GALVANISED MILD MESH
STEEL WIRE TO IS EN 10223-6.



ACTIVITY



Construction &
Commissioning

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

PUBLICATION TITLE

FENCING
MAMMAL RESISTANT FENCE

HISTORICAL REFERENCE

RCD/300/19

DOCUMENTATION SET

STANDARDS

PUBLICATION DATE

FEBRUARY 2007

PUBLICATION NUMBER

ACTIVITY

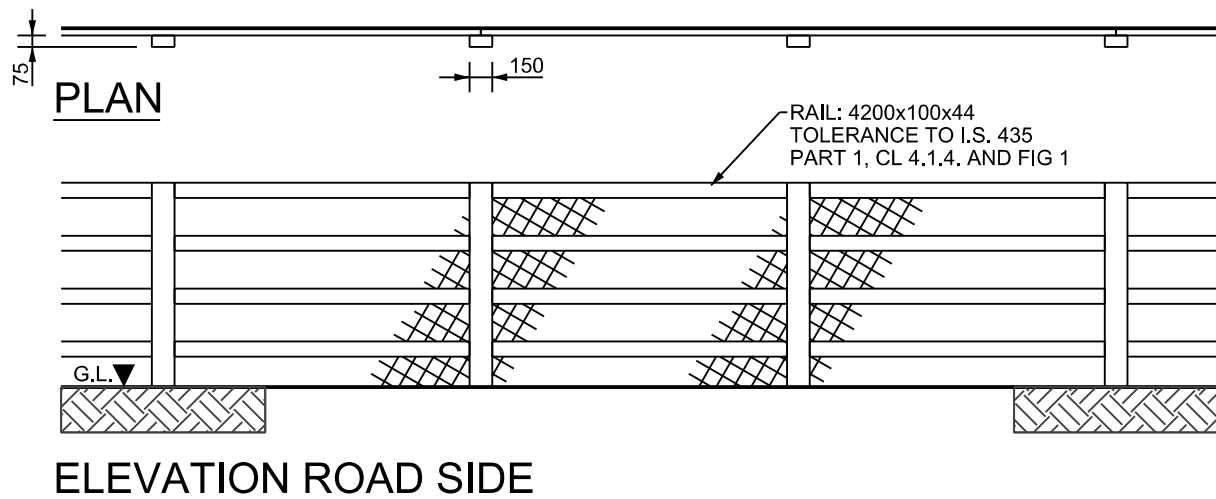
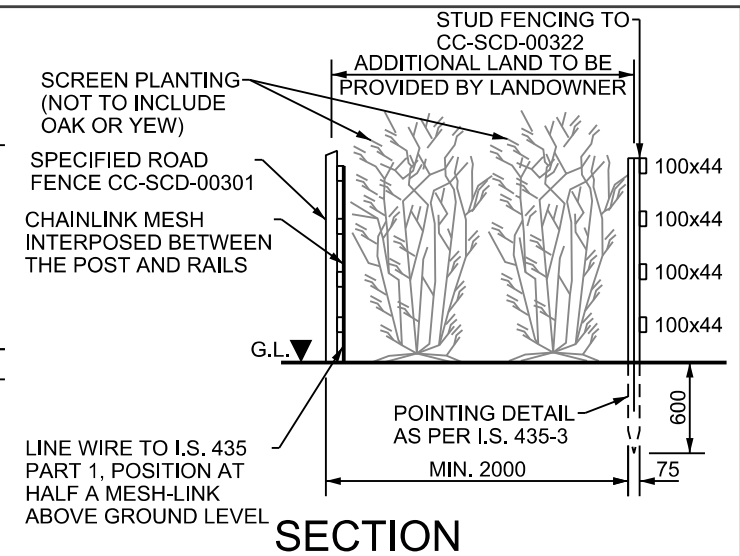
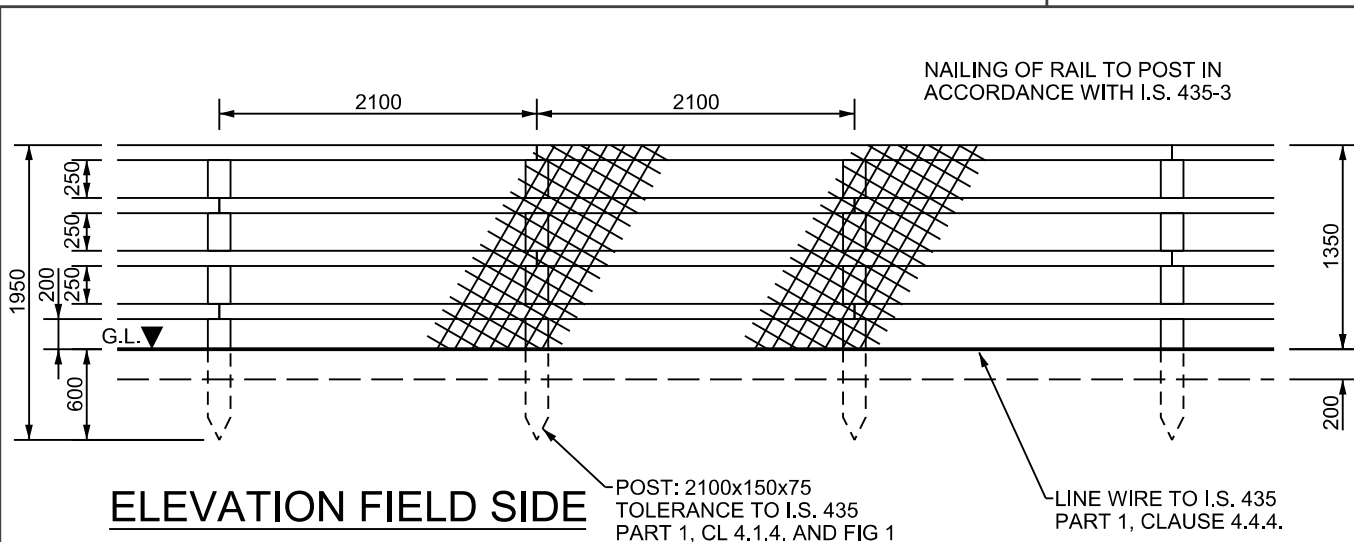
CC

STREAM

SCD

DRAWING NUMBER



00319

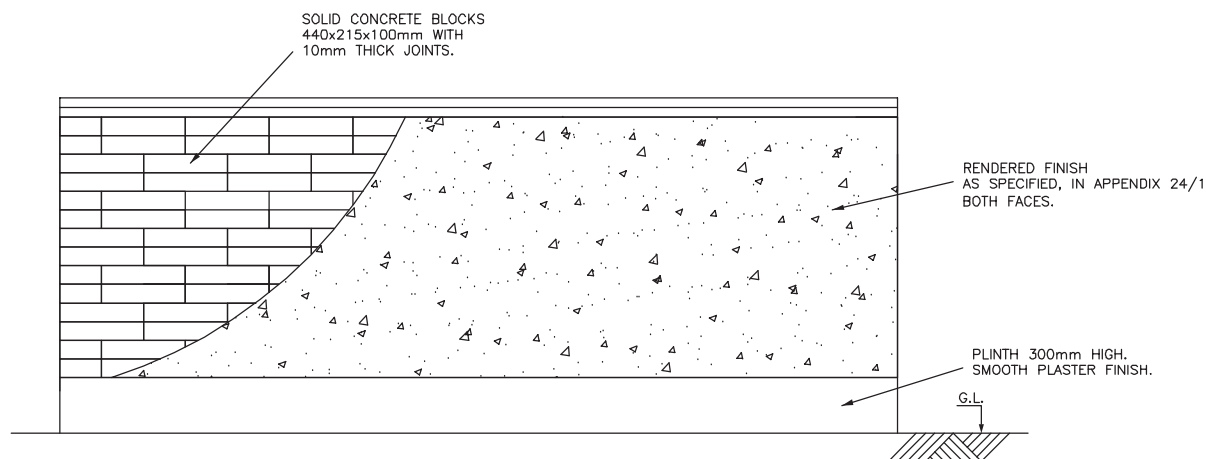


- NOTES A:**
1. FENCES SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH I.S. 435 EXCEPT WHERE OTHERWISE SHOWN.
 2. ANY LENGTH OF FENCING (INCLUDING BRANCHES AND SPURS) SHALL START WITH A POST AND END WITH A POST. AN ADDITIONAL POST SHALL BE PROVIDED AT FENCE JUNCTIONS AND AT FENCE CORNERS.
 3. POST HOLES FALLING IN ROCK SHALL BE EXCAVATED TO THE DEPTH SHOWN ON THIS DRAWING OR, SUBJECT TO AGREEMENT WITH THE EMPLOYER'S REPRESENTATIVE, TO A DEPTH OF 500mm, AND SHALL BE BACKFILLED WITH MIX ST2 CONCRETE. WHERE A REDUCED DEPTH OF HOLE IS AGREED, THE TOP OF THE POST SHALL BE SUITABLY CUT AND TREATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF I.S. 435.
 4. FENCE POST AND RAIL SHALL BE TREATED WITH PRESERVATIVE IN ACCORDANCE WITH THE REQUIREMENTS OF CC-SCD-00322 AND APPENDIX B OF I.S. 435-1.
 5. CONCRETE FOUNDATIONS TO POSTS SHALL BE PROVIDED WHERE STATED IN APPENDIX 1/3.
 6. STUD FENCE (CC-SCD-00322) TO BE CONSTRUCTED PARALLEL TO ROAD SIDE TIMBER POST AND RAIL FENCE (CC-SCD-00301). FENCE TO BE CONSTRUCTED 2m APART WITH ADDITIONAL LAND TO BE SUPPLIED BY LAND OWNER (AS INDICATED ON CROSS SECTION).
 7. WHERE SIDELONG GROUND SLOPES DOWN TOWARDS THE FENCE AT A SLOPE GREATER THAN 1:4, THEN THE PERMANENT FENCING POST HEIGHT SHALL BE INCREASED BY A MINIMUM OF 250mm AND AN ADDITIONAL RAIL ADDED.

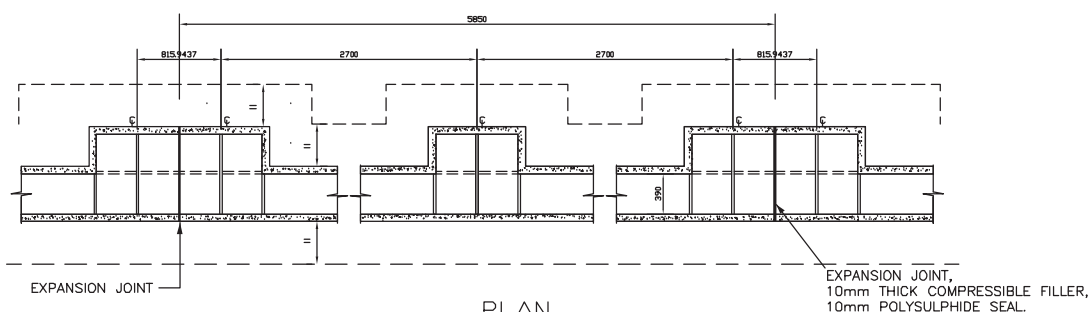
FIXING:
FIXING IN ACCORDANCE WITH I.S. 435-3,
NOTES 13 AND 14 AND SECTION 4.4 OF I.S. 435-3.

NOTES B:
CHAINLINK MESH SHALL BE 1300mm WIDE, 50mm MESH MADE OF 2.25/3.15mm DIAM. PLASTIC COATED GALVANISED MILD MESH STEEL WIRE TO IS EN 10223-6.

 <p>Bonnagar Iompair Eireann Transport Infrastructure Ireland</p>	 <p>Construction & Commissioning</p>	<p>PUBLICATION TITLE</p> <p>FENCING STUD FENCING TYPE B</p>		<p>HISTORICAL REFERENCE</p> <p>RCD/300/22</p>		<p>DOCUMENTATION SET</p> <p>STANDARDS</p>	<p>PUBLICATION DATE</p> <p>JANUARY 2009</p>	<p>PUBLICATION NUMBER</p> <p>CC SCD 00322</p>	
		<p>ACTIVITY</p> <p>STANDARD CONSTRUCTION DETAILS (SCD)</p>		<p>STREAM</p> <p>CC</p>		<p>ACTIVITY</p> <p>CC</p>		<p>STREAM</p> <p>SCD</p>	<p>DRAWING NUMBER</p> <p>00322</p>



ELEVATION



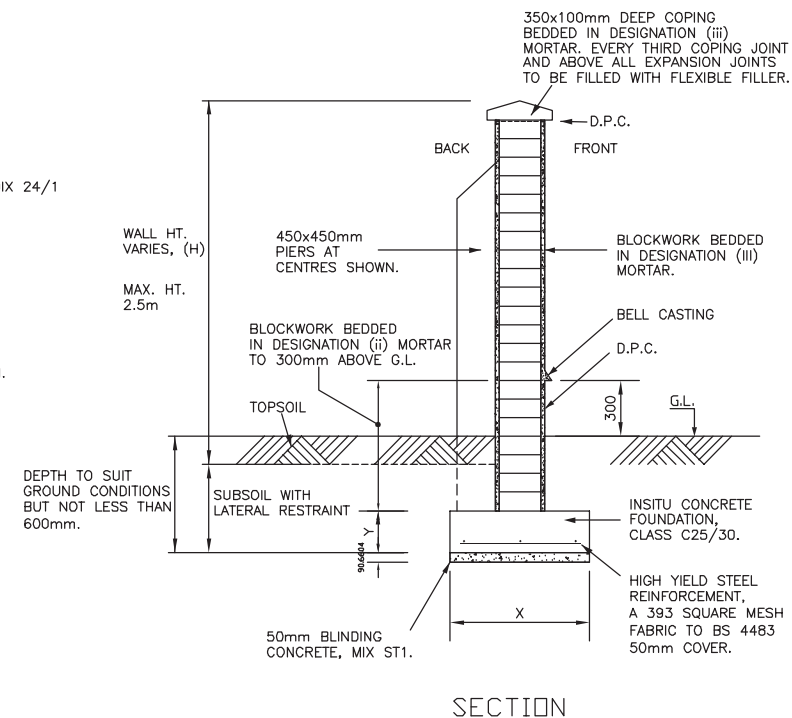
PLAN

TABLE 1

WALL HT, (H) (mm)	X (mm)	Y (mm)	PIER CTRS. (mm)
UP TO 1200	700	225	NO PIERS
1200 TO 1800	700	225	2700
1800 TO 2500	800	250	2700

TABLE 2

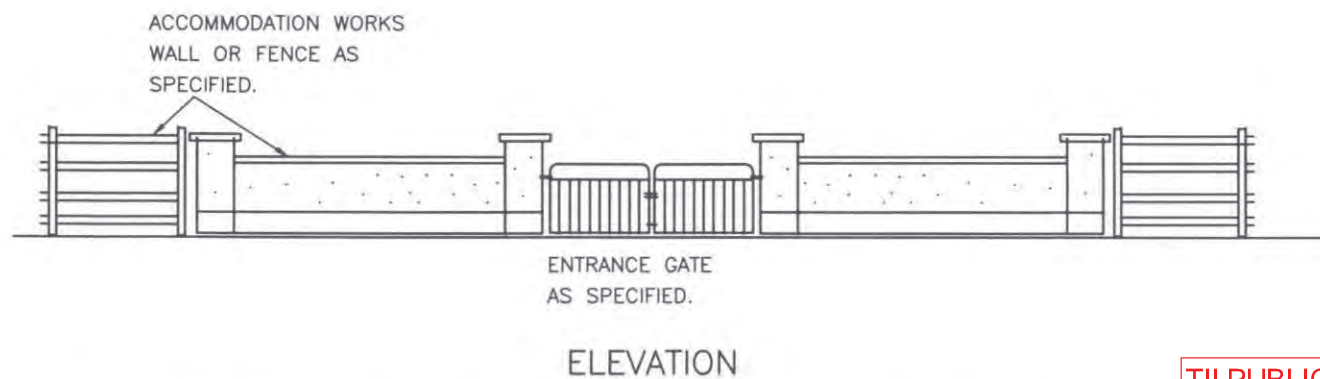
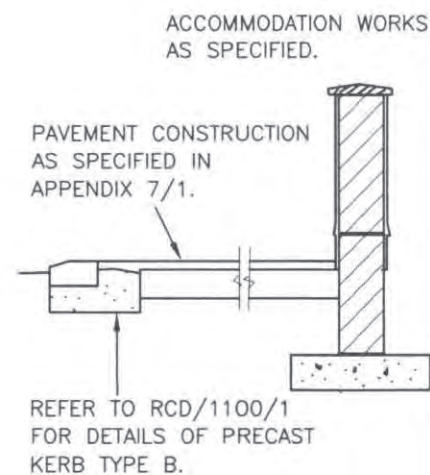
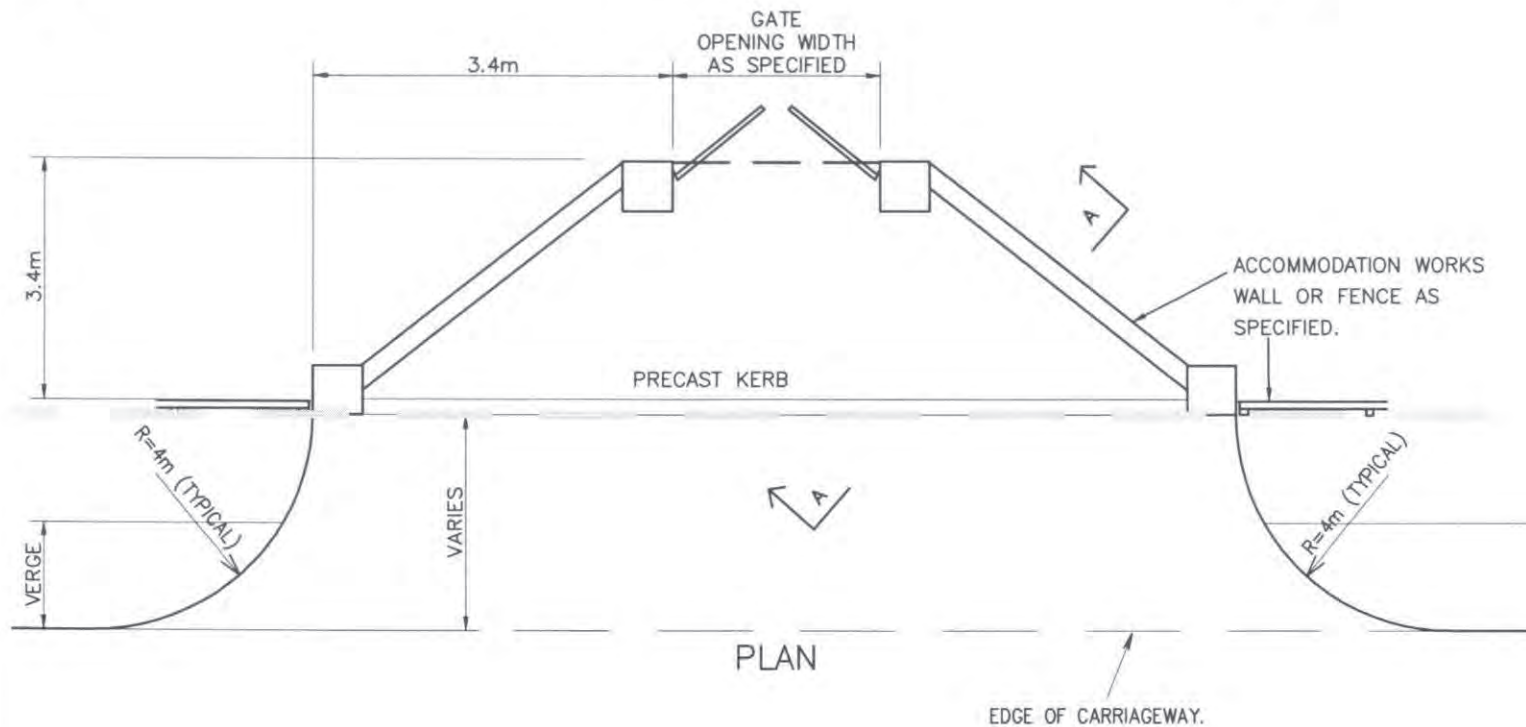
FINISH TYPE	
1	FAIRFACED
2	ROUGHCAST
3	NAPPED PLASTER
4	TYROLENE



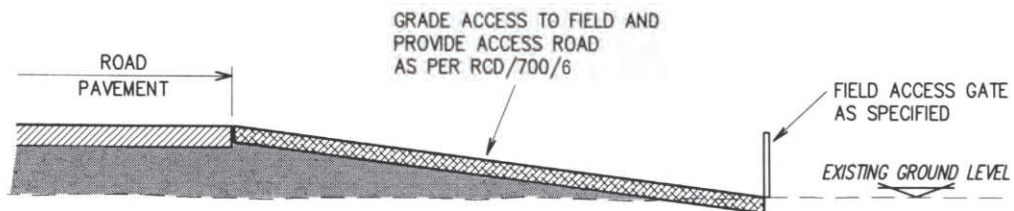
SECTION

- NOTES: 1. THIS RCD IS ONLY TO BE USED IN ASSOCIATION WITH A UNIQUE STRUCTURAL DESIGN CARRIED OUT FOR THE WALLS ON A PROJECT IN ACCORDANCE WITH RELEVANT DESIGN CODES FOR BLOCKWORK, MASONRY AND LOADING.
2. BLOCKS TO COMPLY WITH I.S. E.N. 771-3.
MORTAR TO COMPLY WITH I.S. E.N. 998.
MASONRY TO COMPLY WITH I.S. E.N. 1996
FULL ADHESION OF BLOCKWORK TO MORTAR AT ALL INTERFACES.
3. RENDERED FINISHES TO BE IN ACCORDANCE WITH BS 5262 CODE OF PRACTICE FOR EXTERNAL RENDERINGS.
4. PIERS AT ENDS AND CHANGES OF DIRECTION.
ENDS OF WALLS TO RETURN BY H/3.
5. MINIMUM ALLOWABLE BEARING CAPACITY OF FORMATION 1S
25 kN/m² (UNIFORMLY DISTRIBUTED) OR
50 kN/m² (TRIANGULARLY DISTRIBUTED).

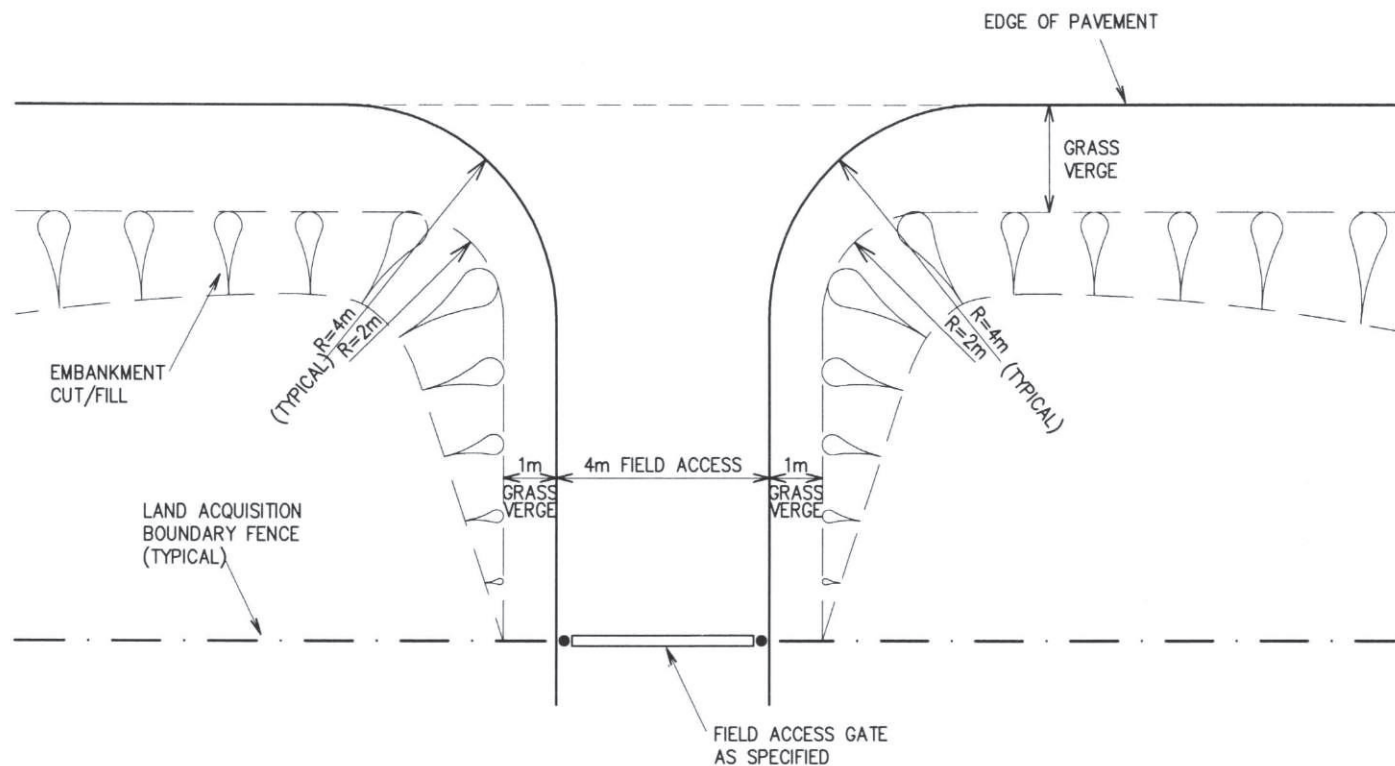
TII PUBLICATION NUMBER: CC-SCD-02401



TII PUBLICATION NUMBER: CC-SCD-02753

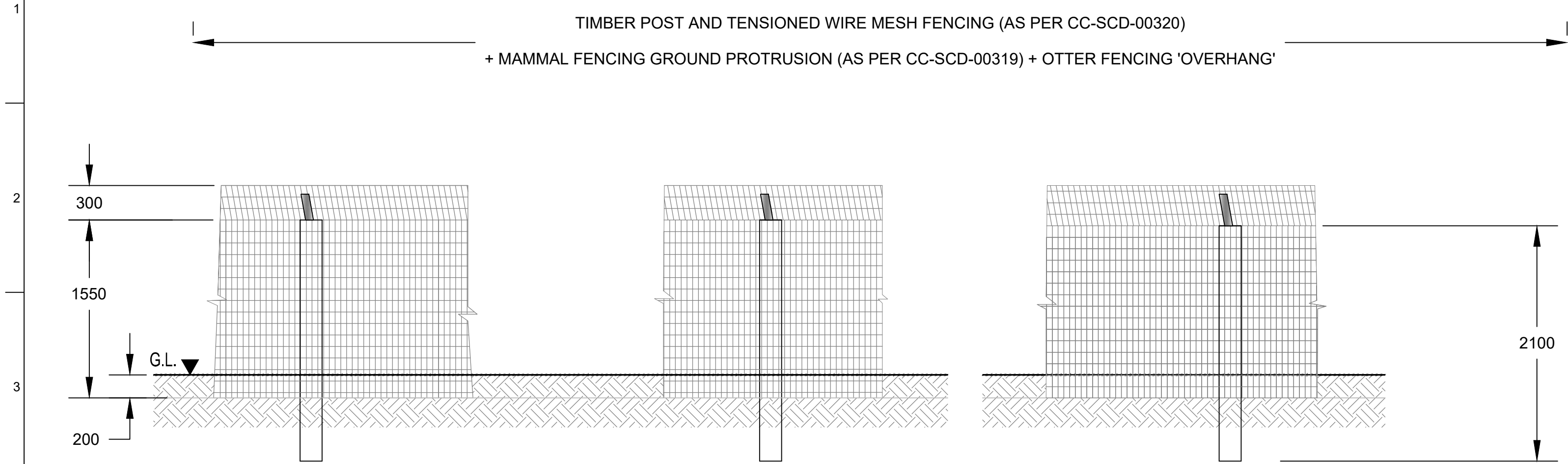


SECTIONAL ELEVATION

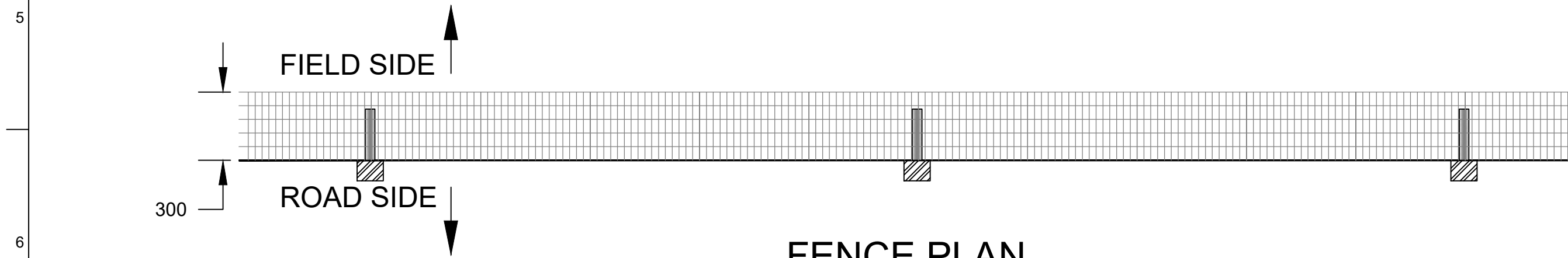


PLAN

TII PUBLICATION NUMBER: CC-SCD-02754



FENCE ELEVATION

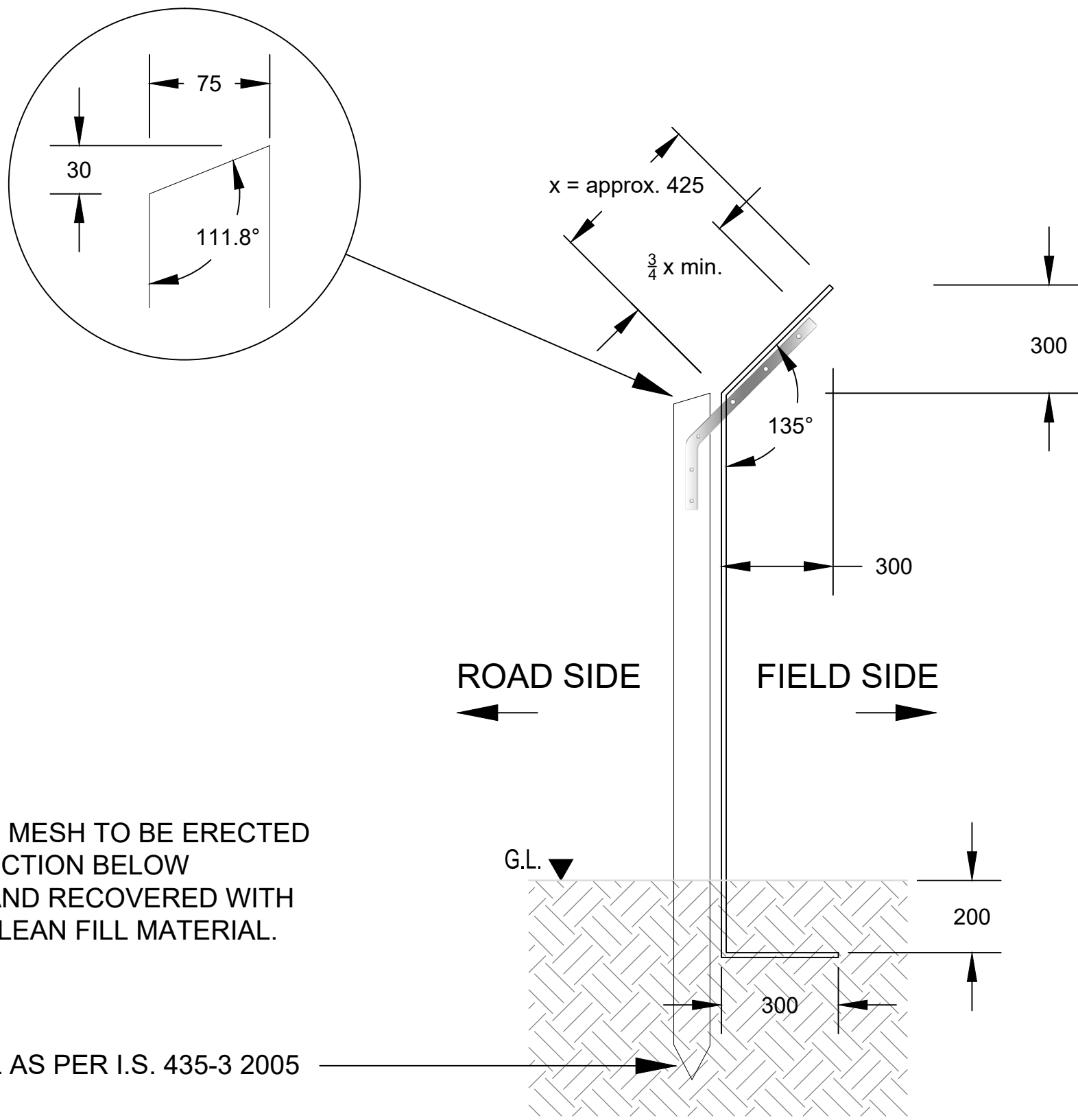


FENCE PLAN

NOTE
TENSIONED WIRE MESH TO BE ERECTED
WITH A 200mm SECTION BELOW
GROUND LEVEL AND RECOVERED WITH
GOOD QUALITY CLEAN FILL MATERIAL.

POINTING DETAIL AS PER I.S. 435-3 2005

WEATHER DETAIL



SECTION

NOTES:

1. TO BE READ IN CONJUNCTION WITH CC-SCD-00304, CC-SCD-00319, & CC-SCD-00320
2. GENERAL NOTES AS PER CC-SCD-00320 APPLY
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

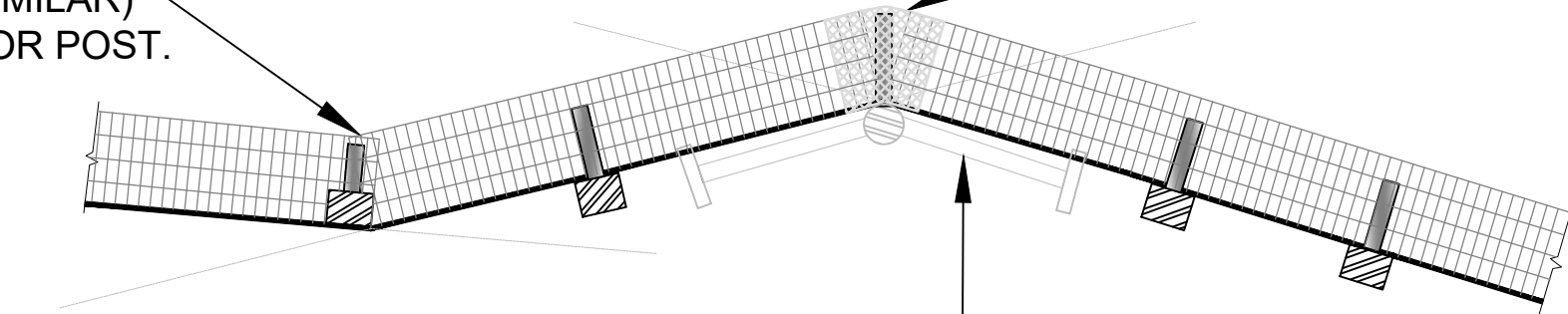
ADDITIONAL NOTES

4. TENSIONED WIRE MESH WIDTHS SHALL BE:
 - 4.1. 1550mm WIDE & 300mm MAMMAL RESISTANT FLAP SECTION FOR REGULAR TIMBER POST AND TENSIONED WIRE MESH FENCE
 - 4.2. AN ADDITIONAL 425mm WIDE OVERHANG SECTION TO BE LAID INCLINED AT A 135° ANGLE FROM THE VERTICAL FENCE (45° ANGLE FROM AN HORIZONTAL PLANE) AND FIXED WITH A STEEL BRACKET (COMPLYING WITH RELEVANT PROTECTIVE COATING REQUIREMENTS TO FIGHT CORROSION)
5. WHERE MAMMAL RESISTANT FLAP IS REQUIRED ON THE SAME SIDE OF THE FENCING AS A POST THE WIRE MESH IS TO BE CUT TO FACILITATE POSTS. ANY GAPS IN THE MAMMAL RESISTANT FENCING RESULTING FROM REQUIRED CUTS ARE TO BE FILLED WITH WIRE MESH OFF-CUTS AND SECURED WITH LANDSCAPING STAPLES (OR SIMILAR).
6. CUTTING OF WIRE MESH FENCING IS TO BE KEPT TO A MINIMUM AND SHOULD ONLY OCCUR WHERE NO OTHER OPTION EXISTS.
7. ALL TENSIONED WIRE MESH FENCING FORMING PART OF MAMMAL RESISTANT FENCING IS TO BE COATED WITH ADDITIONAL ZINC ALUMINUM ALLOY AS PER SERIES NG 300 SPECIFICATION.
8. STRAINING POSTS ARE TO BE EXTENDED 200mm BELOW GROUND LEVEL OR TO BE BACKFILLED WITH MIX ST2 CONCRETE WHERE MAMMAL RESISTANT FENCING IS REQUIRED TO ENSURE FULL PERFORMANCE OF FENCE.
9. WHERE MAMMAL RESISTANT FENCING IS REQUIRED AT THE LOCATION OF AN END POST ASSEMBLY THE BED LOG ELEMENT IS TO BE INSTALLED AN ADDITIONAL 100mm BELOW GROUND LEVEL TO ACCOMMODATE THE MAMMAL RESISTANT FLAP. WIRE MESH IS TO BE CUT AS REQUIRED TO FIT WITH CROSS MEMBER ELEMENT OF ARRANGEMENT.
10. AT END POST ASSEMBLIES, WHEREVER POSSIBLE, THE BED LOG AND CROSS MEMBER ELEMENTS ARE TO BE LOCATED ON THE OPPOSITE SIDE OF THE TENSIONED WIRE MESH FENCE TO THE MAMMAL FLAP TO AVOID CONFLICT BETWEEN THE TWO ELEMENTS.

CUT WIRE MESH FENCE AT 90° AND FOLD
WIRE OVER & SECURE TO ITSELF WITH
LANDSCAPING STAPLES (OR SIMILAR)
TRIM WIRE MESH TO ALLOW FOR POST.

FIELD SIDE

CUT WIRE MESH FENCE AT 90°
FILL IN CUT GAP WITH WIRE MESH OFF-CUT
& SECURE TO ITSELF WITH LANDSCAPING
STAPLES (OR SIMILAR)



Double end post assembly required when fence line rotates at an angle of
greater than or equal to 30°. Wire mesh is stapled to each brace post.

MAMMAL RESISTANT FENCING AT CHANGE IN DIRECTION

Clients



Comhairle Chontae na Gaillimhe
Galway County Council



Galway City
Transport Project



An Roinn Iompair
Turasóireachta agus Spóirt



Bonnagar Iompair Éireann
Transport Infrastructure Ireland

Consultant



Corporate House
City East Business Park
Ballybrit, Galway, Ireland.

Tel +353 (0)91 460675
www.N6GalwayCity.ie
www.arup.ie

Job Title

N6 Galway City Ring Road

Scale Not To Scale

Date: March 2018

I1	27/03/2018	JR	HK	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

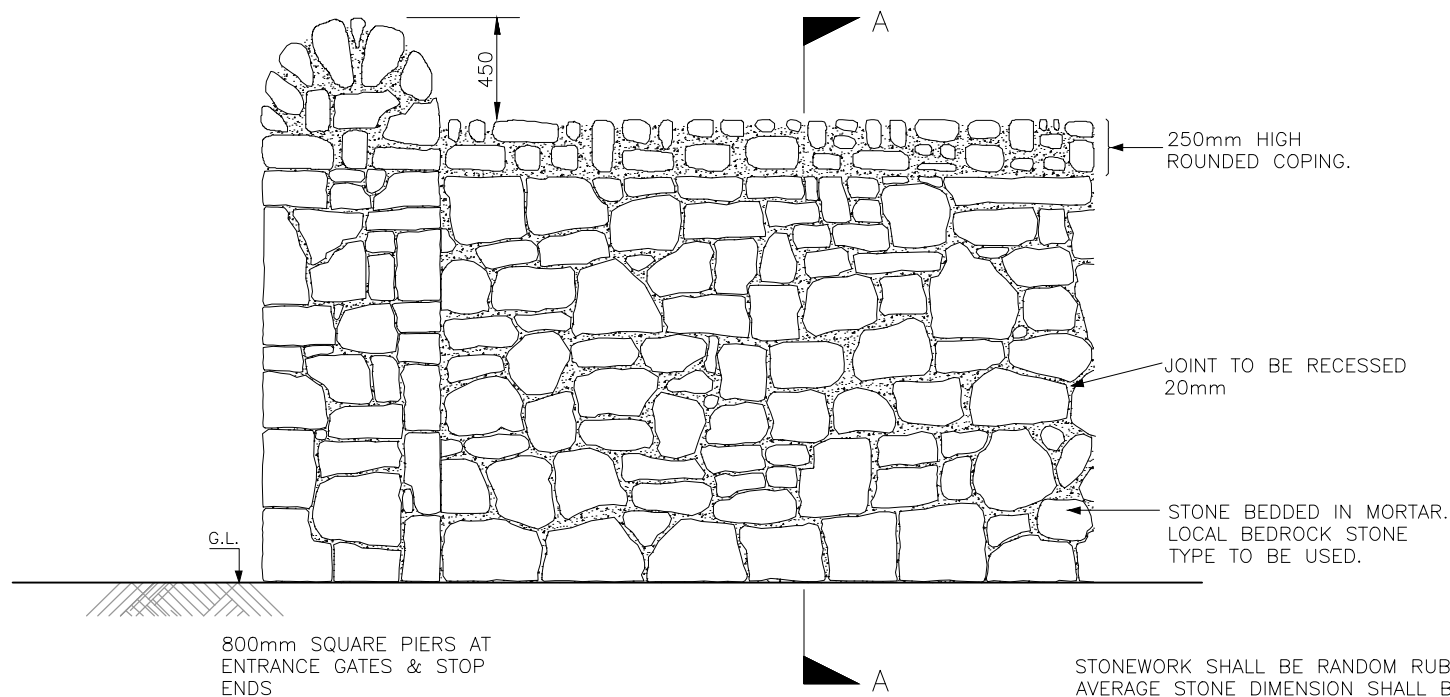
Other Fencing Details

Sheet 1 of 1

Drawing Status

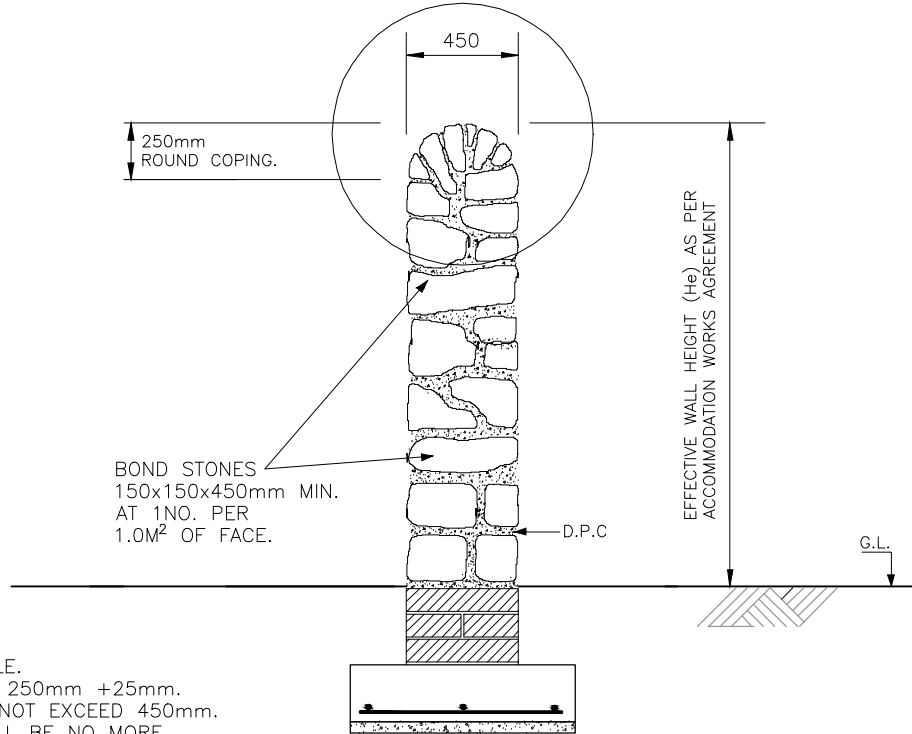
For Information

Job No	Drawing No	Issue
233985	GCOB-300-D-101	11



ELEVATION

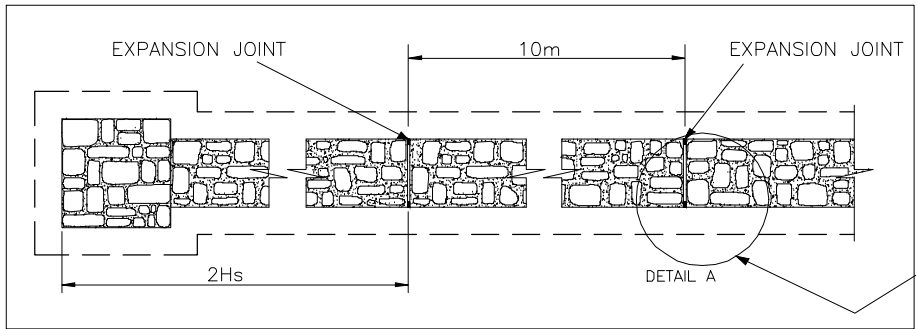
STONEMWORK SHALL BE RANDOM RUBBLE.
AVERAGE STONE DIMENSION SHALL BE 250mm +25mm.
INDIVIDUAL STONE DIMENSIONS SHALL NOT EXCEED 450mm.
NO PART OF THE EXPOSED FACE SHALL BE NO MORE
+25mm or -25mm FROM THE SPECIFIED VERTICAL PLANE
OF THE WALL.



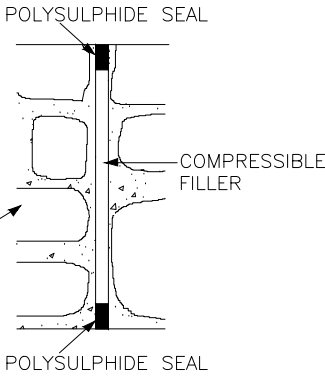
SECTION A-A

NOTES:

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TII CC-SCD-02404
(RCD/2400/4)



PLAN



DETAIL A



Job Title
N6 Galway City Ring Road

Scale
NTS

Date:
February 2025

I1	26/03/2025	KJ	GCC	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Typical Stone Wall Detail
Sheet 1 of 1

Drawing Status
For Information

Job No	Drawing No	Issue
233985	GCRR-SK-C-001	11