

STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN

PART 8: DRAWINGS

JULY 2023



An Roinn Iompair
Department of Transport



Sligo County Council
Comhairle Chontae Shligigh

Sligo.



STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN

PART 8: DRAWINGS

JULY 2023

LOCATION MAP	(SHEET 01 OF 01)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300003
PROPOSED LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300001
PROPOSED SITE CLEARANCE	(SHEET 01 OF 01)	MCAAS2W-ROD-HSC-TO15_AE-DR-CH-300001
PROPOSED TII DEPOT - RESILIENCE SALT BARN	(SHEET 01 OF 03)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300001
	(SHEET 02 OF 03)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300002
	(SHEET 03 OF 03)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300003
PROPOSED TII DEPOT - MAINTENANCE & OPERATIONS OFFICE	(SHEET 01 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300004
	(SHEET 02 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300005
PROPOSED TII DEPOT - MAINTENANCE SALT BARN	(SHEET 01 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300006
	(SHEET 02 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300007
PROPOSED SCC DEPOT - WELFARE FACILITIES & WORKSHOP	(SHEET 01 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300008
	(SHEET 02 OF 02)	MCAAS2W-ROD-SGN-TO15_AE-DR-CH-300009
PROPOSED ROAD LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-HGN-TO15_AE-DR-CH-300001

PROPOSED STORMWATER DRAINAGE LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300501
PROPOSED STORM NETWORK PIPE LONGSECTIONS	(SHEET 01 OF 02)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300506
	(SHEET 02 OF 02)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300507
PROPOSED FOUL WATER DRAINAGE LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300503
PROPOSED FOUL NETWORK PIPE LONGSECTIONS	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300508
PROPOSED WATER SUPPLY LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DR-CH-300505
PROPOSED DRAINAGE TYPICAL DETAILS	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DE-CH-300501
PROPOSED WATERMAIN TYPICAL DETAILS	(SHEET 01 OF 01)	MCAAS2W-ROD-HDG-TO15_AE-DE-CH-300502
PROPOSED LANDSCAPING	(SHEET 01 OF 01)	MCAAS2W-ROD-ELS-TO15_AE-DR-CH-300001
PROPOSED BOUNDARY TREATMENT DETAILS	(SHEET 01 OF 01)	MCAAS2W-ROD-HFE-TO15_AE-DE-CH-300301
PROPOSED LIGHTING LAYOUT	(SHEET 01 OF 01)	MCAAS2W-ROD-HLG-TO15_AE-DR-CH-301301
PROPOSED SITE SECTIONS	(SHEET 01 OF 04)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300005
	(SHEET 02 OF 04)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300006
	(SHEET 03 OF 04)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300007
	(SHEET 04 OF 04)	MCAAS2W-ROD-GEN-TO15_AE-DR-CH-300008

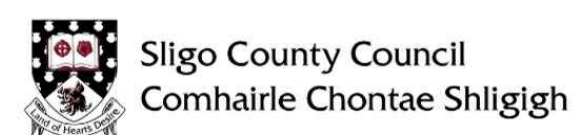
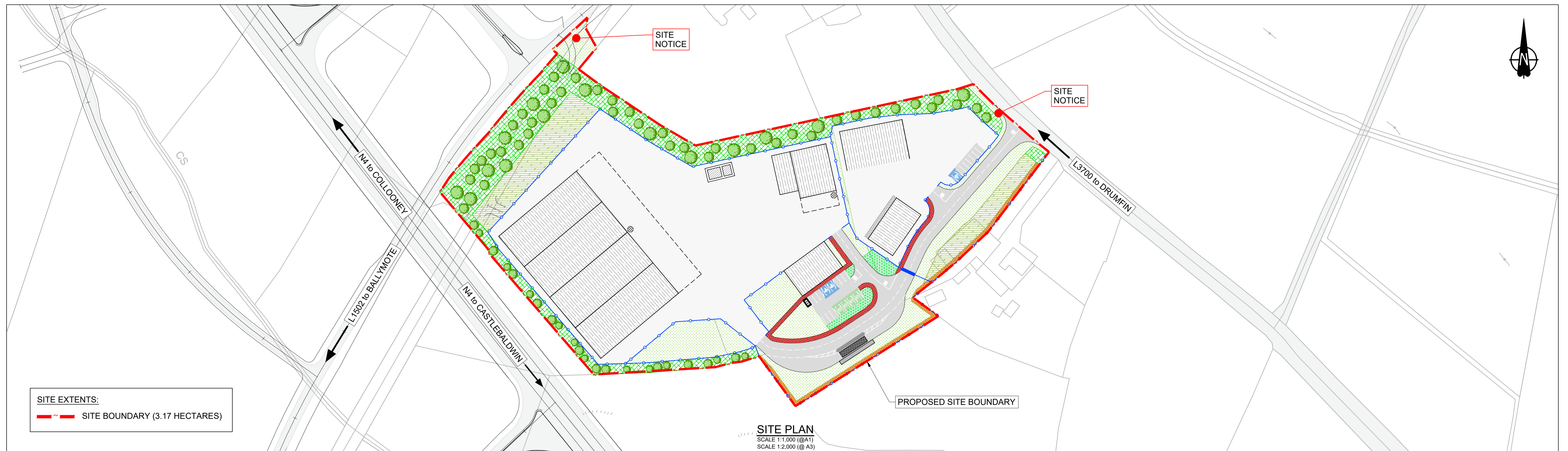
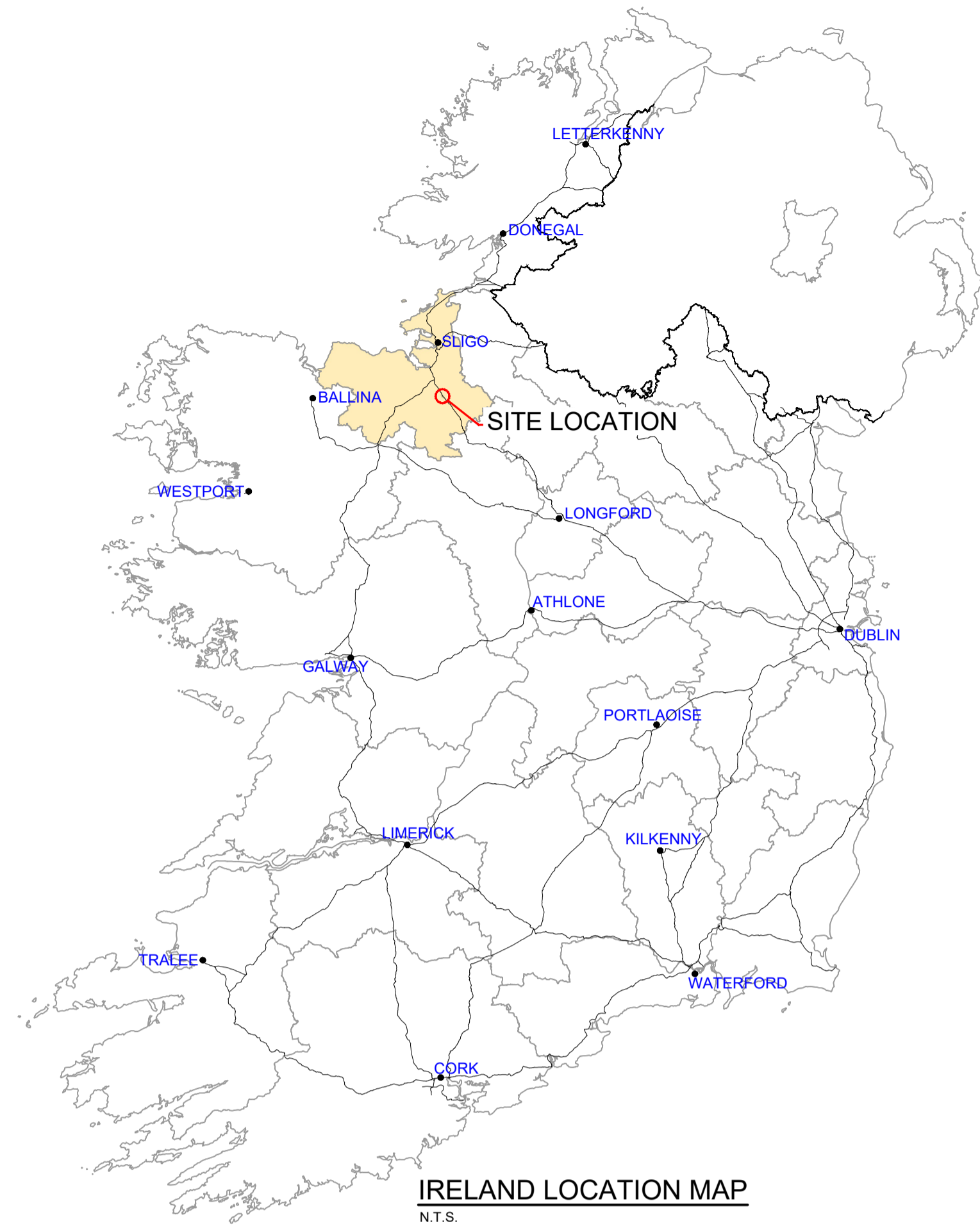


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Department of Transport



Sligo County Council
Comhairle Chontae Shligigh





Arena House, Arena Road, Sandyford, Dublin 18, Ireland
t +353 (0) 1 294 0800
f +353 (0) 1 294 0820
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No.	Revision	Date	By	Chk'd	App'd

Project Title		STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN			
Drawing Title		LOCATION MAP SHEET 01 OF 01			
Project Number	Originator	Volume	Location	Type	Role
MCAAS2W-	ROD	- GEN -	TO15_AE	- DR -	CH -
300003					
Scale (A1)	AS SHOWN	Date	JULY 2023	Job No:	21,114
				Rev:	P01




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No.	Revision	Date	By	Chkd	App'd


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Drawn: MJM Designed: CL Checked: EW Approved: EW Status: A1 - Approved/Accepted


Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title	PROPOSED LAYOUT					
Drawing Number	MCAAS2W-	ROD	- GEN -	TO15_AE	- DR -	CH - 300001
Scale (A1)	1:500	Date:	JULY 2023	Job No:	21.114	Rev: P01




- LEGEND:**
- - - SITE BOUNDARY
 - EXISTING BOUNDARY TO BE RETAINED
 - ▨ GENERAL SITE CLEARANCE
 - ▨ BUILDING TO BE DEMOLISHED
 - ▨ ACCESS ROAD TO BE REMOVED
 - ▨ SITE COMPOUND TO BE REMOVED




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Transport Infrastructure Ireland




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No.	Revision	Date	By	Chk'd	App'd

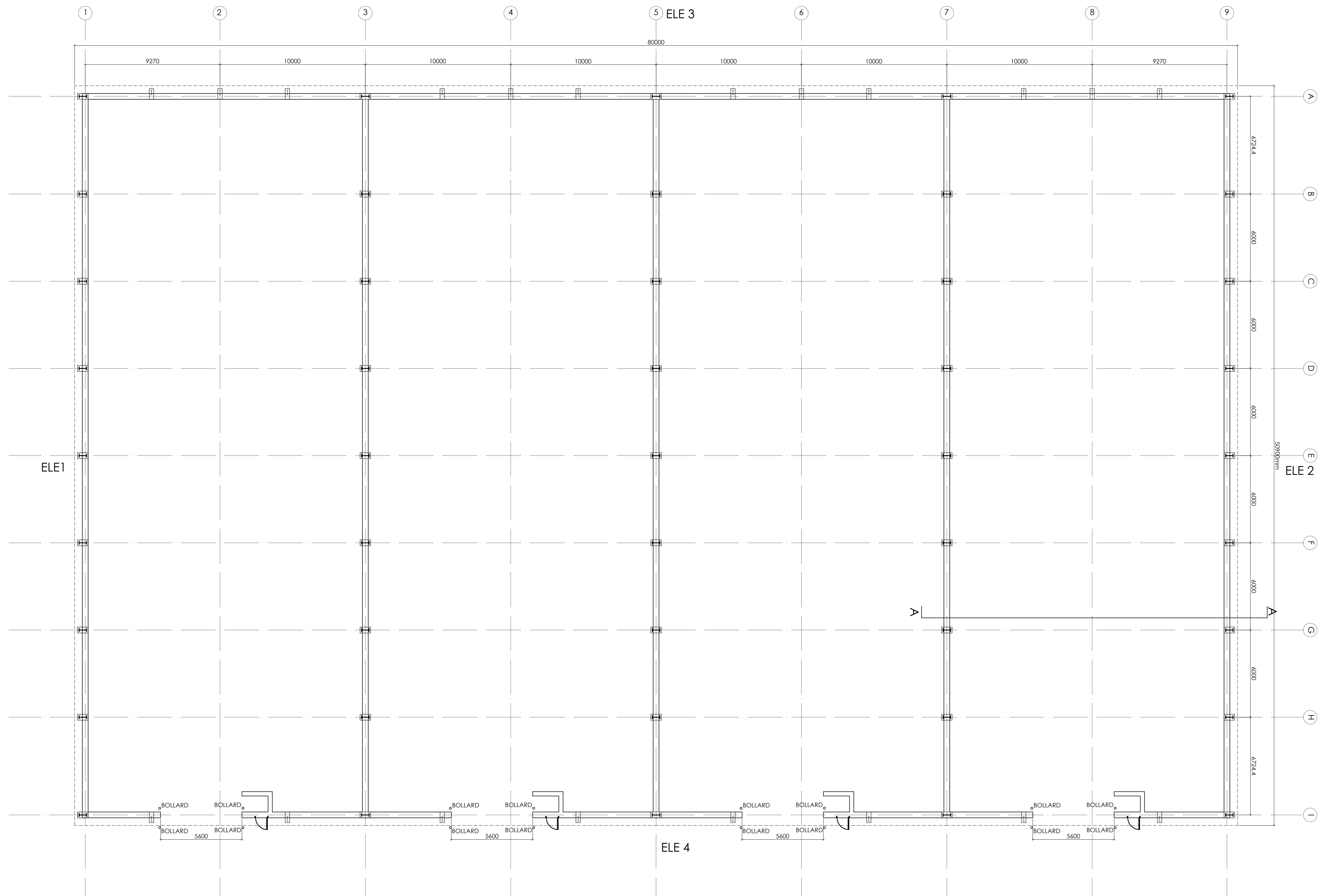


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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN				
Drawing Title	PROPOSED SITE CLEARANCE SHEET 01 OF 01				
Drawing Number	MCAAS2W-	ROD	- HSC -	TO15_AE	- DR - CH - 300001
Scale (A1)	1:500	Date:	JULY 2023	Job No:	21.114
				Rev:	P01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



Ground Floor Plan
SCALE 1:100 (@ A0)



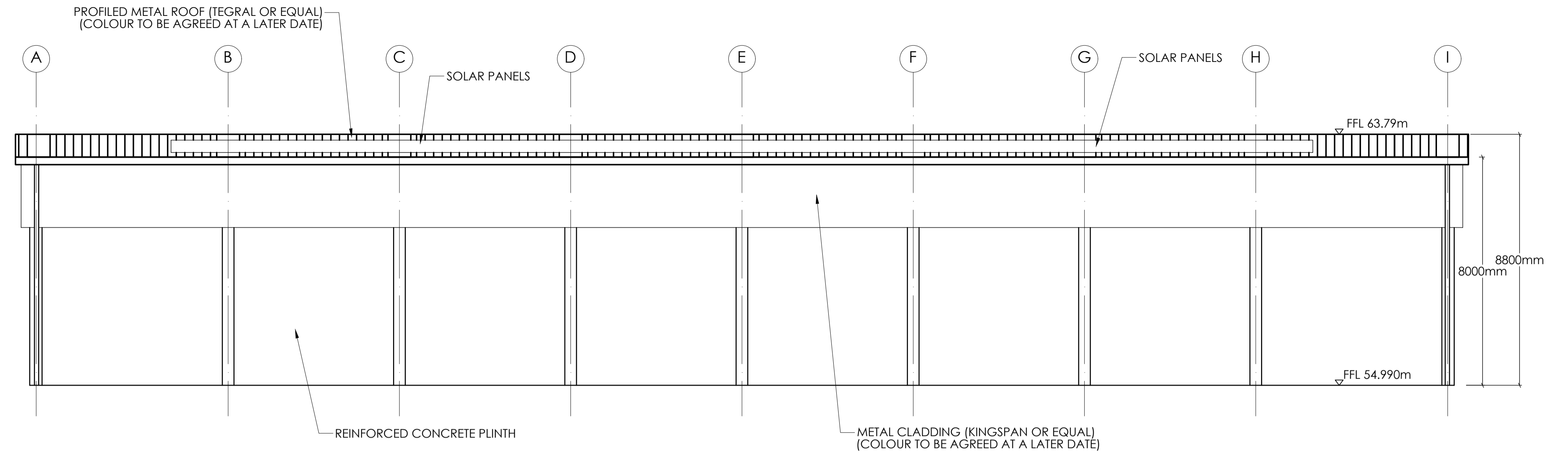
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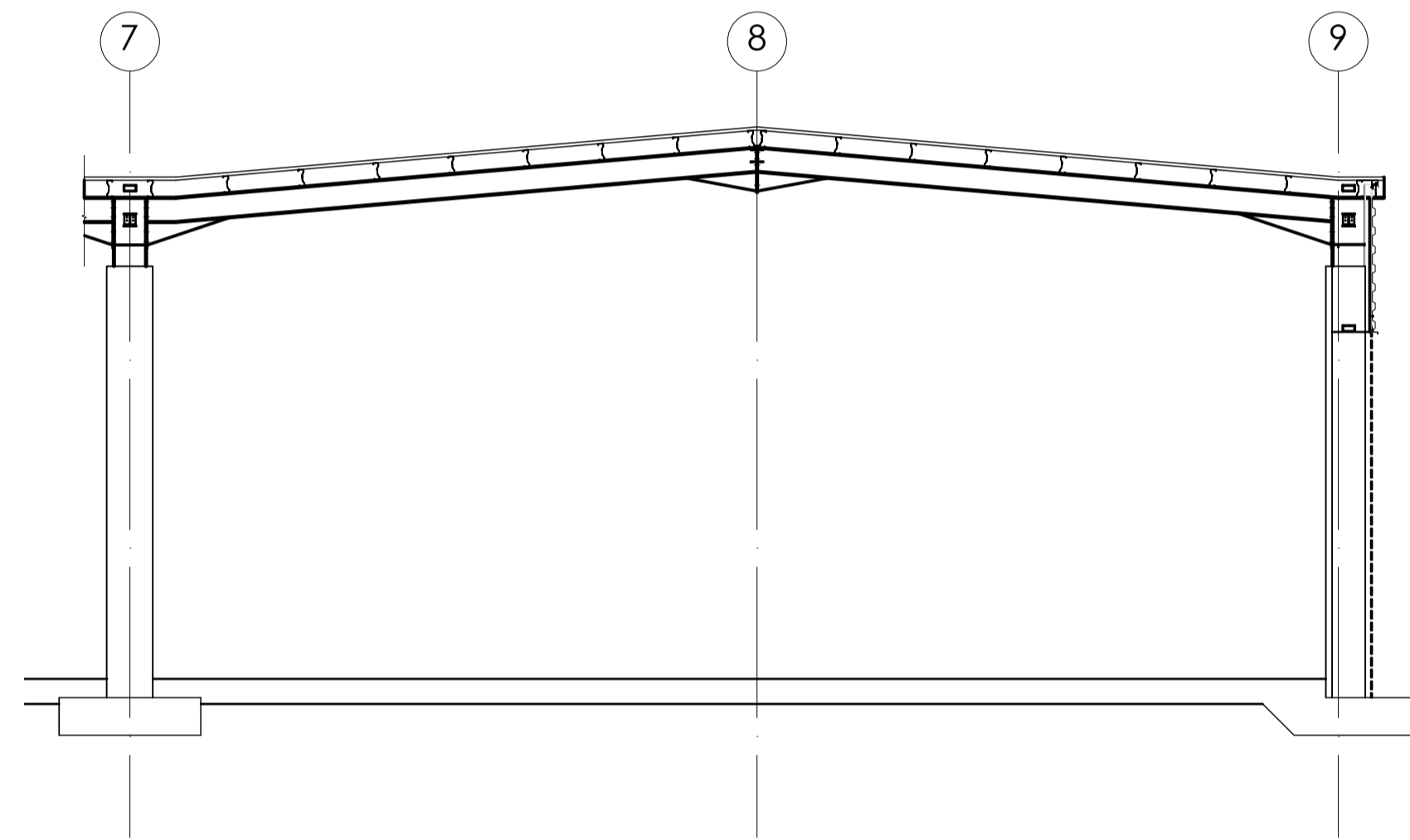
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Project Title		STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title		PROPOSED TII DEPOT RESILIENCE SALT BARN SHEET 01 OF 03					
Project	Originator	Volume	Location	Type	Role	Number	
MCAAS2W	ROD	SGN	TO15_AE	DR	CH	300001	
Drawing Number	Date	Job No.	Rev.				
AS SHOWN	JULY 2023	21.114	P01				
Scale (A1)	Status (A1)						
AS SHOWN	A1 - Approved/Accepted						

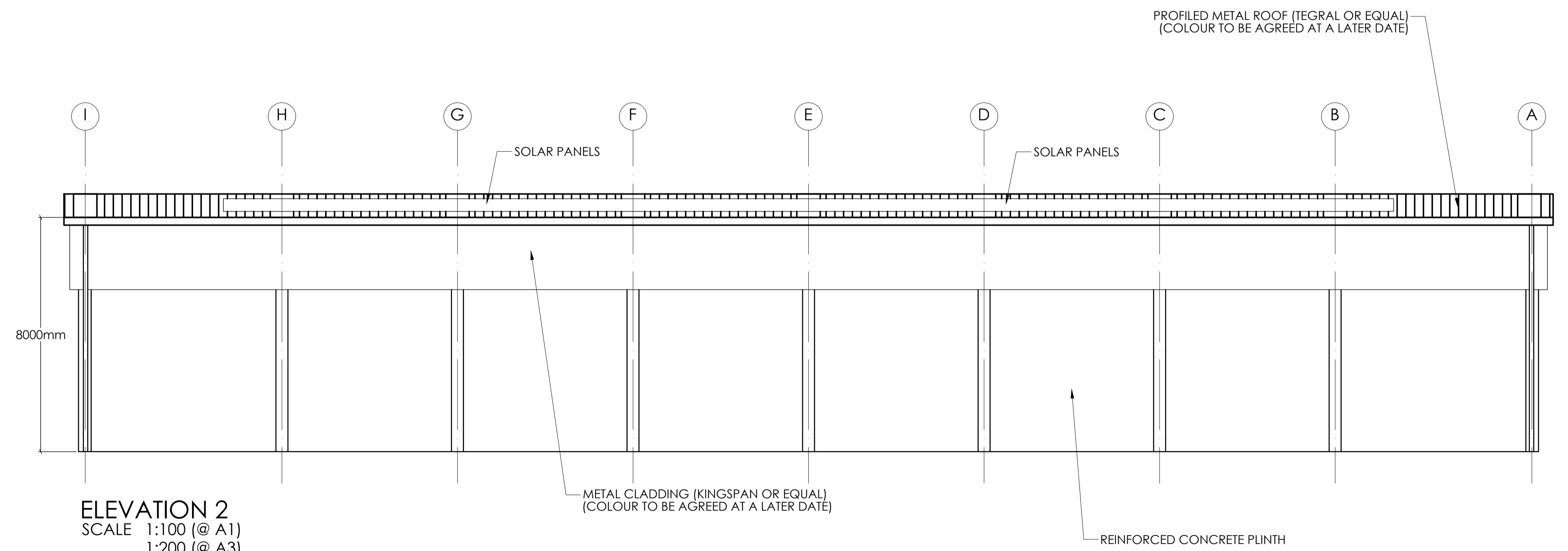
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ELEVATION 1
SCALE 1:100 (@ A1)
1:200 (@ A3)



SECTION A
SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 2
SCALE 1:100 (@ A1)
1:200 (@ A3)



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No.	Revision	Date	By	Chk'd	App'd

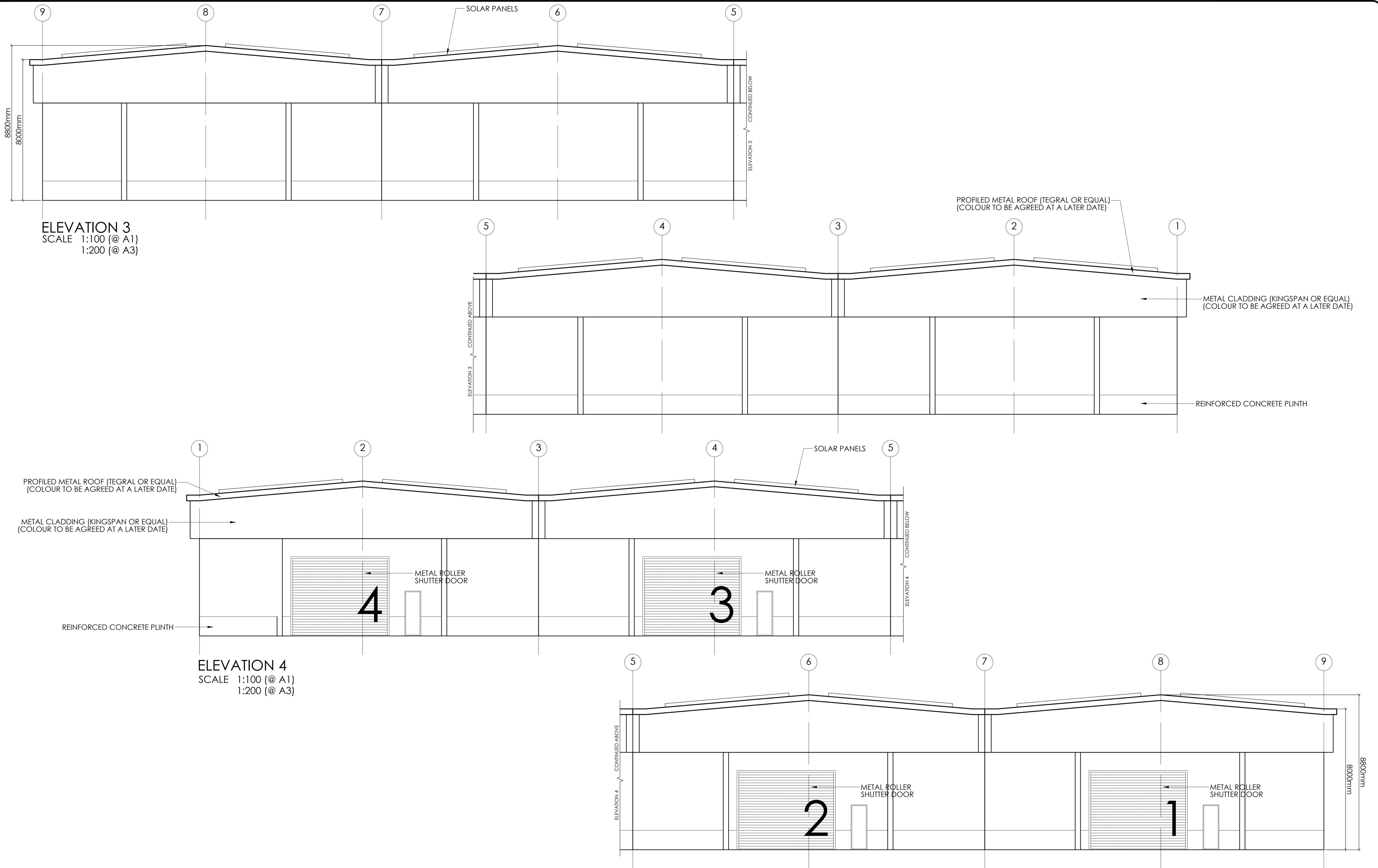


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f +353 (0) 1 294 0820
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Drawn: LA | Designed: CL | Checked: EW | Approved: EW | Status: A1 - Approved/Accepted

Project Title		STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN			
Drawing Title		PROPOSED TII DEPOT RESILIENCE SALT BARN SHEET 02 OF 03			
Project	Originator	Volume	Location	Type	Role
MCAAS2W-	ROD	-	SGN	-	TO15_AE - DR - CH
Drawing Number	MCAAS2W- ROD - SGN - TO15_AE - DR - CH - 300002				Number
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114
Rev:	P01				

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



ELEVATION 3
 SCALE 1:100 (@ A1)
 1:200 (@ A3)

ELEVATION 4
 SCALE 1:100 (@ A1)
 1:200 (@ A3)

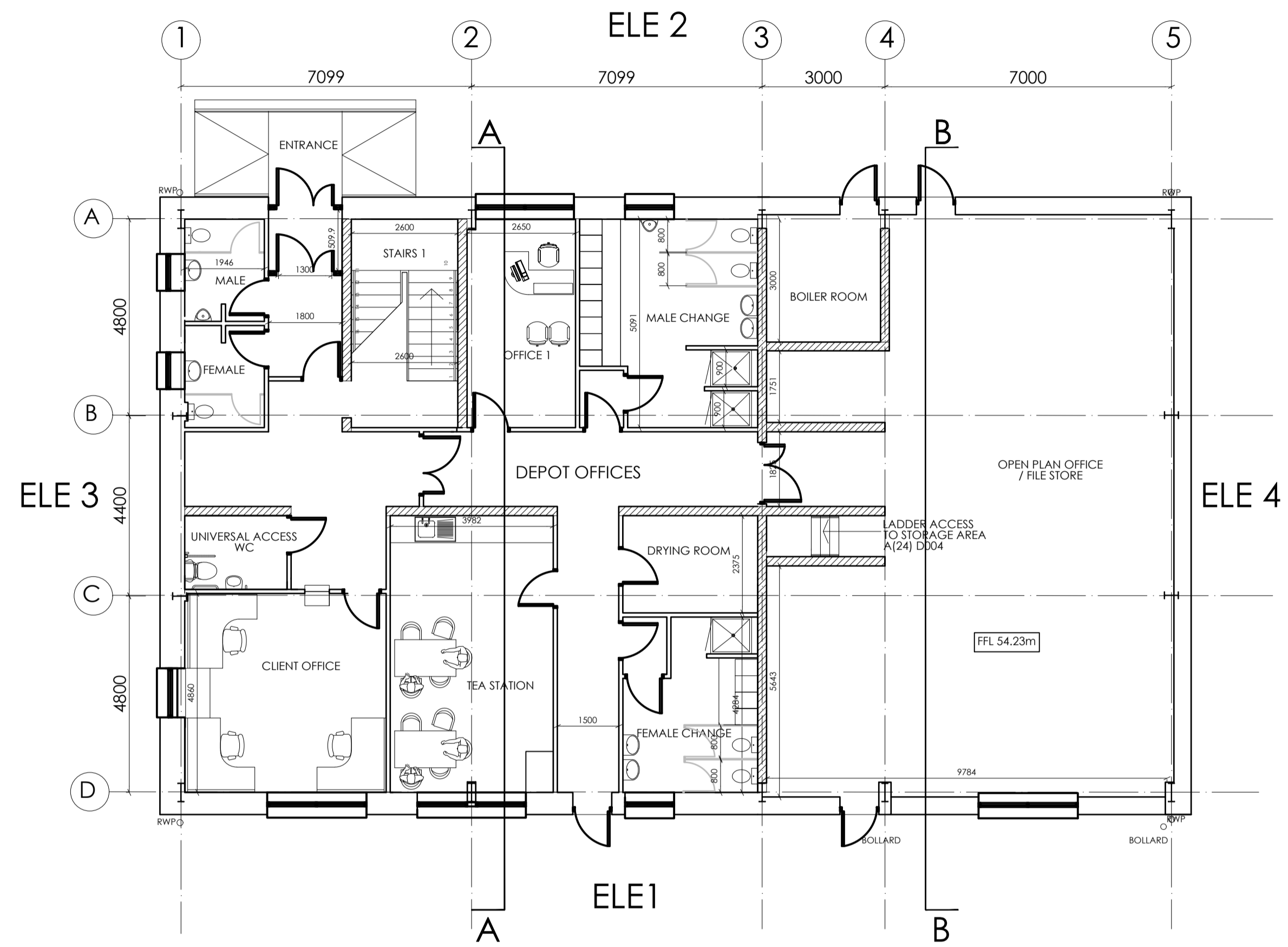
No.	Revision	Date	By	Chk'd	App'd



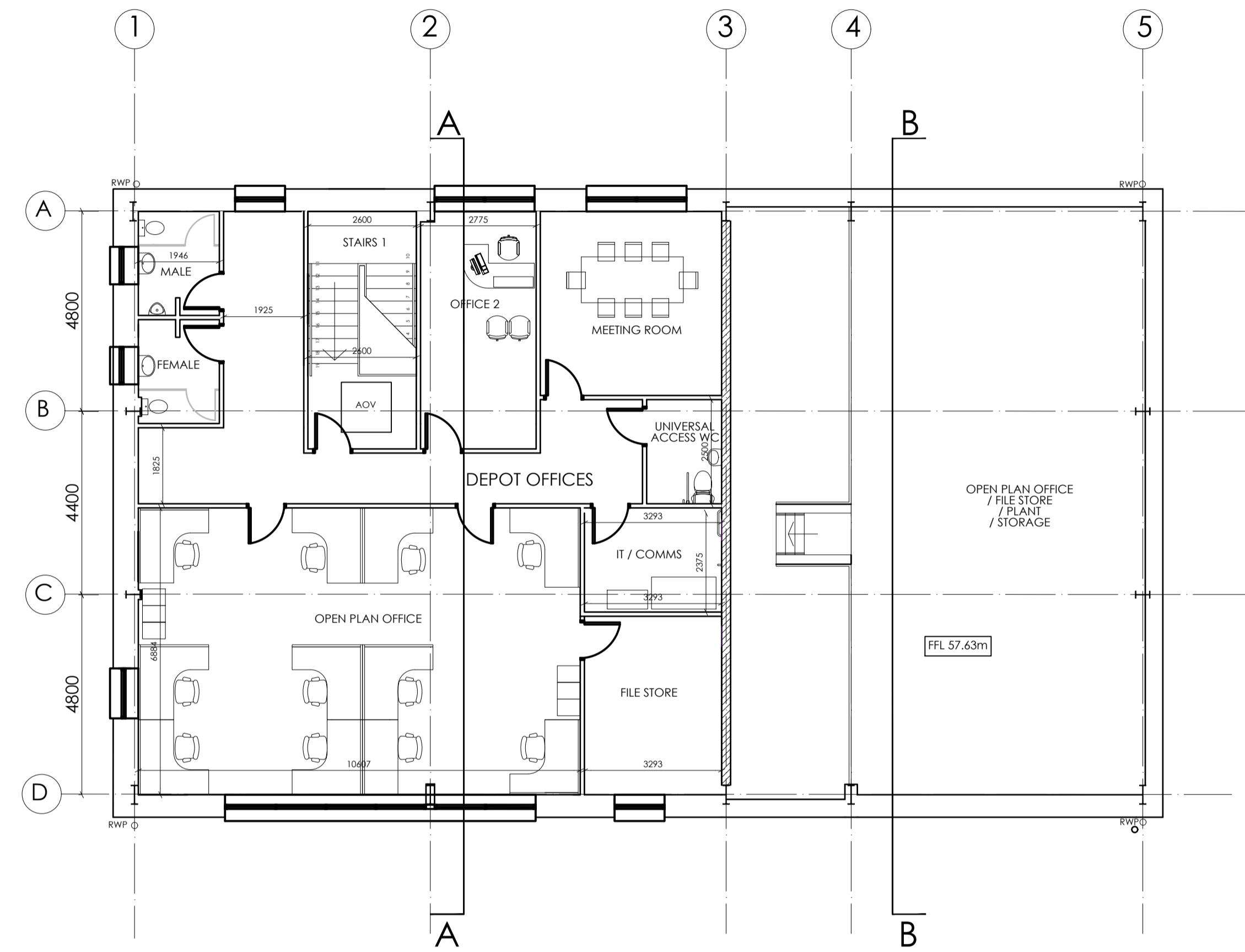
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STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN
PROPOSED TII DEPOT RESILIENCE SALT BARN
SHEET 03 OF 03

Drawn: LA	Designed: CL	Checked: EW	Approved: EW	Status: A1 - Approved/Accepted	Scale (A1): AS SHOWN	Date: JULY 2023	Job No: 21.114	Rev: P01
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Ground Floor Plan
SCALE 1:100 (@ A1)
1:200 (@ A3)



First Floor Plan
SCALE 1:100 (@ A1)
1:200 (@ A3)



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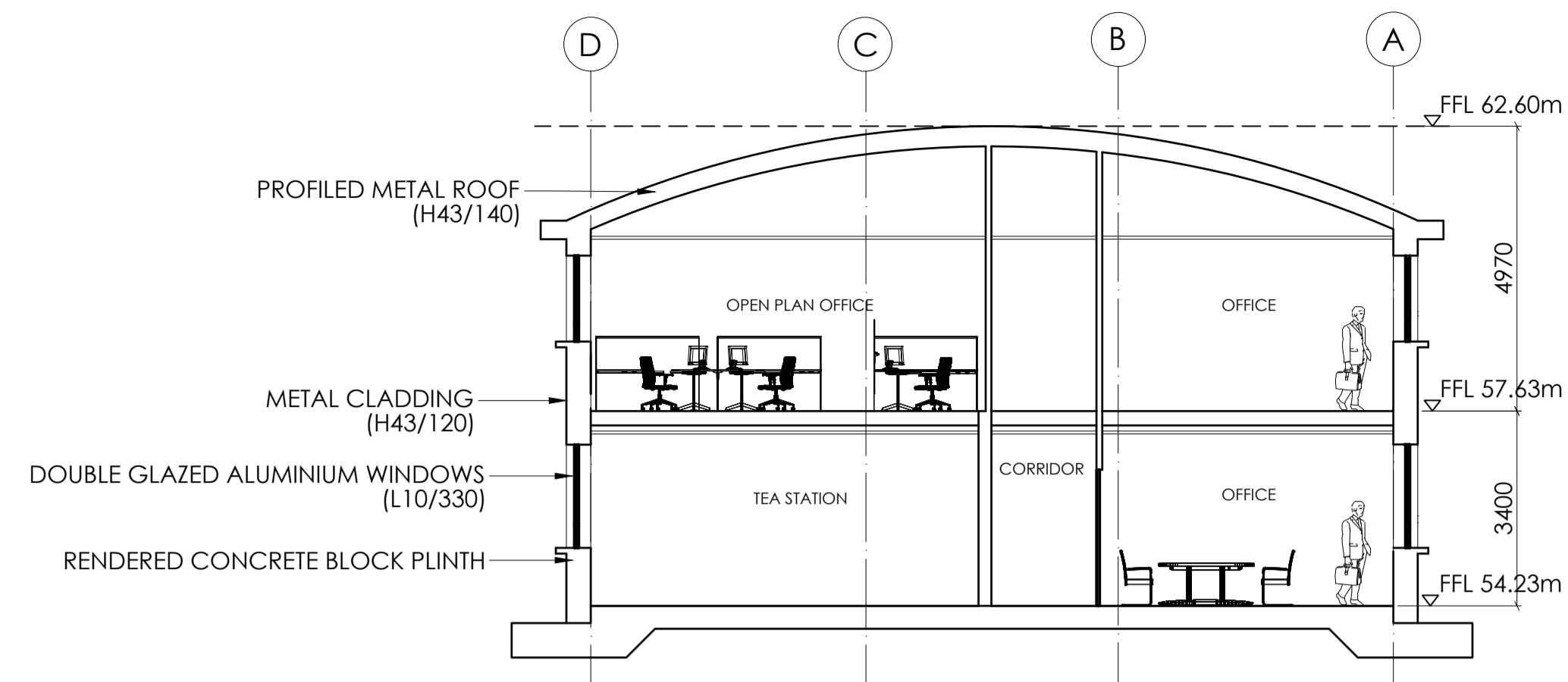


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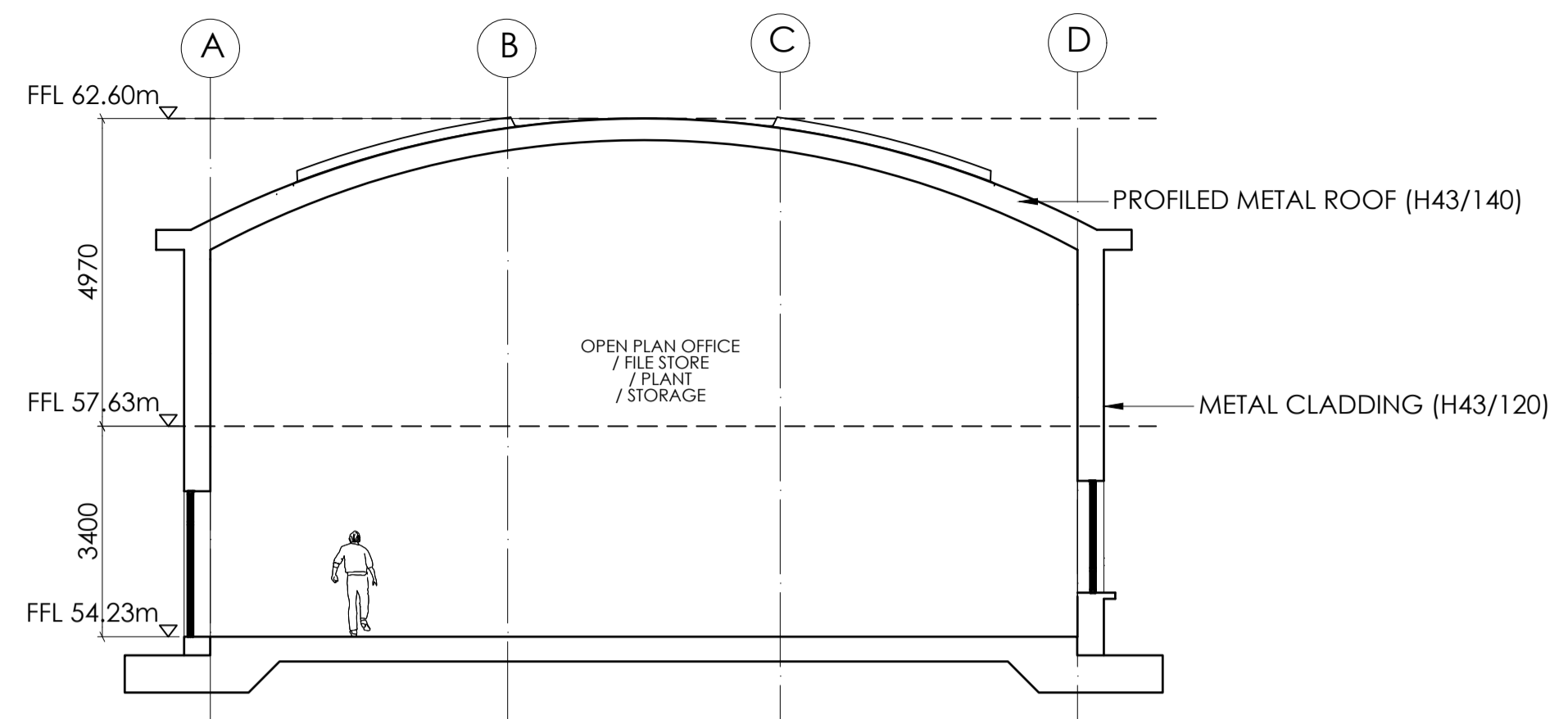
Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN				
Drawing Title	PROPOSED TII DEPOT MAINTENANCE AND OPERATIONS OFFICE SHEET 01 OF 02				
Drawing Number	Project	Originator	Volume	Location	Type Role Number
MCAAS2W-	ROD	SGN	TO15_AE	DR - CH	300004
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114
				Rev:	P01

No.	Revision	Date	By	Chk'd	App'd

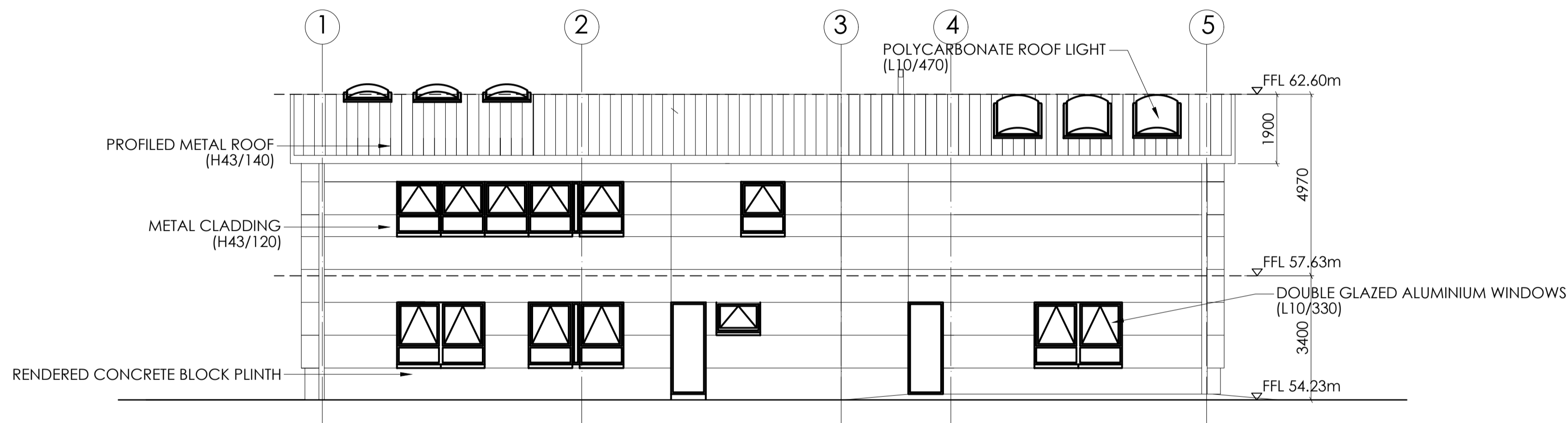
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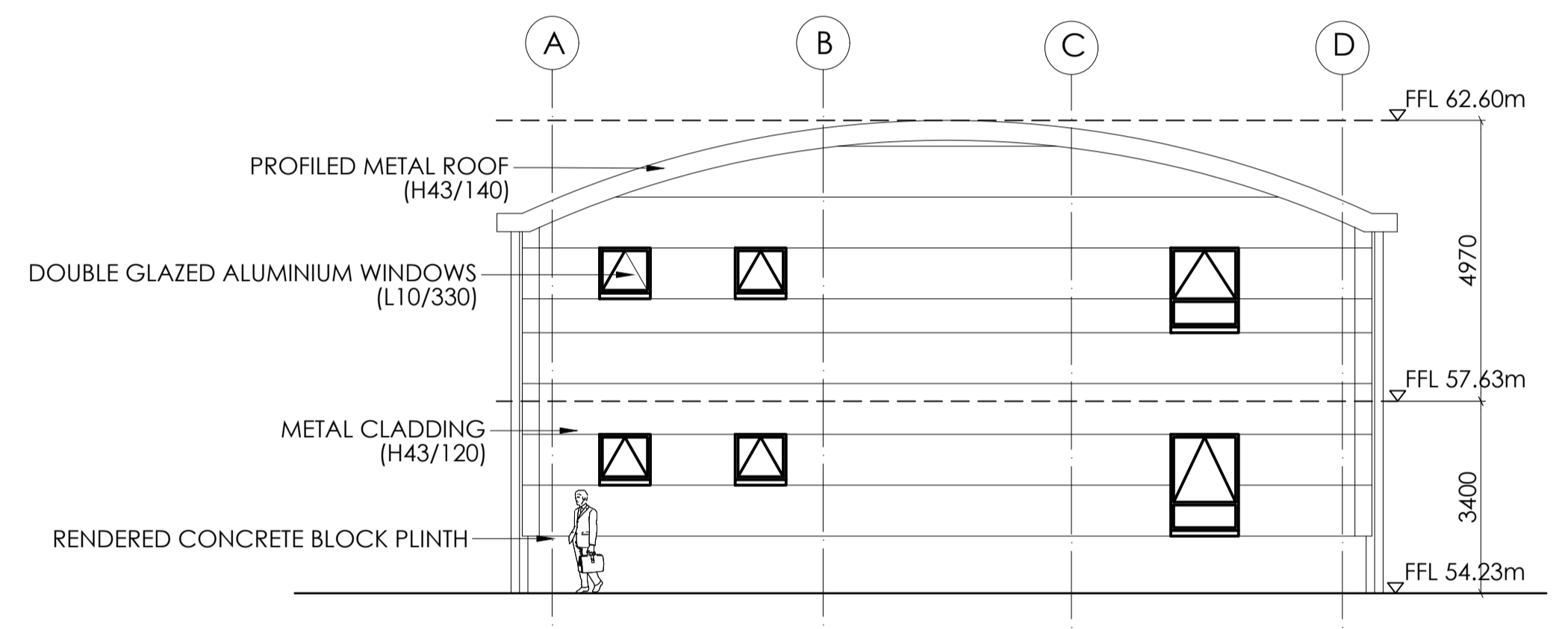
SECTION A-A
SCALE 1:100 (@ A1)
1:200 (@ A3)



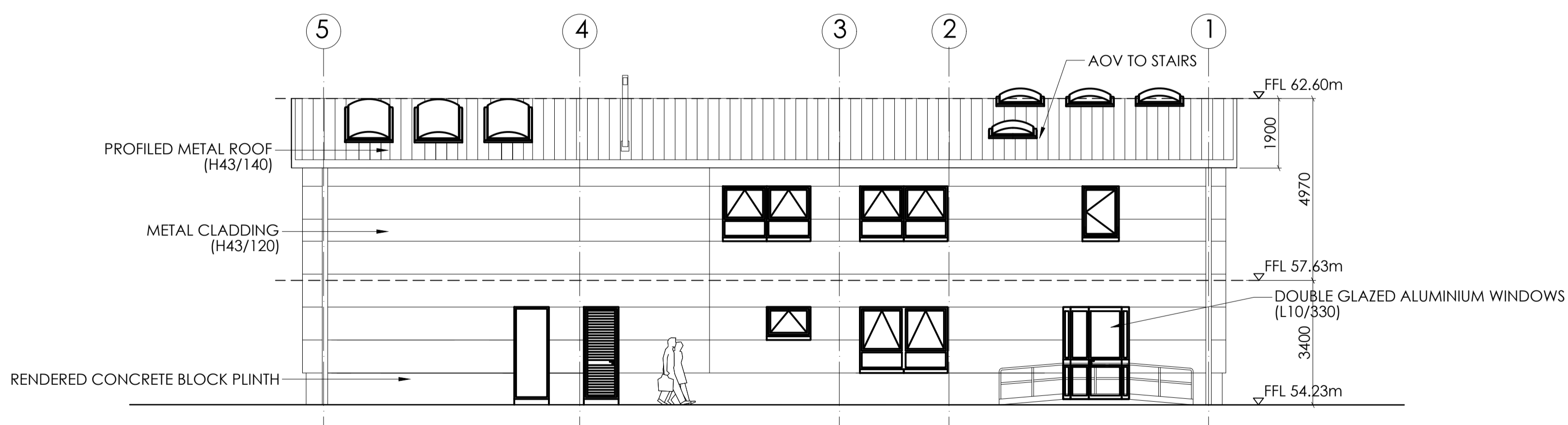
SECTION B-B
SCALE 1:100 (@ A1)
1:200 (@ A3)



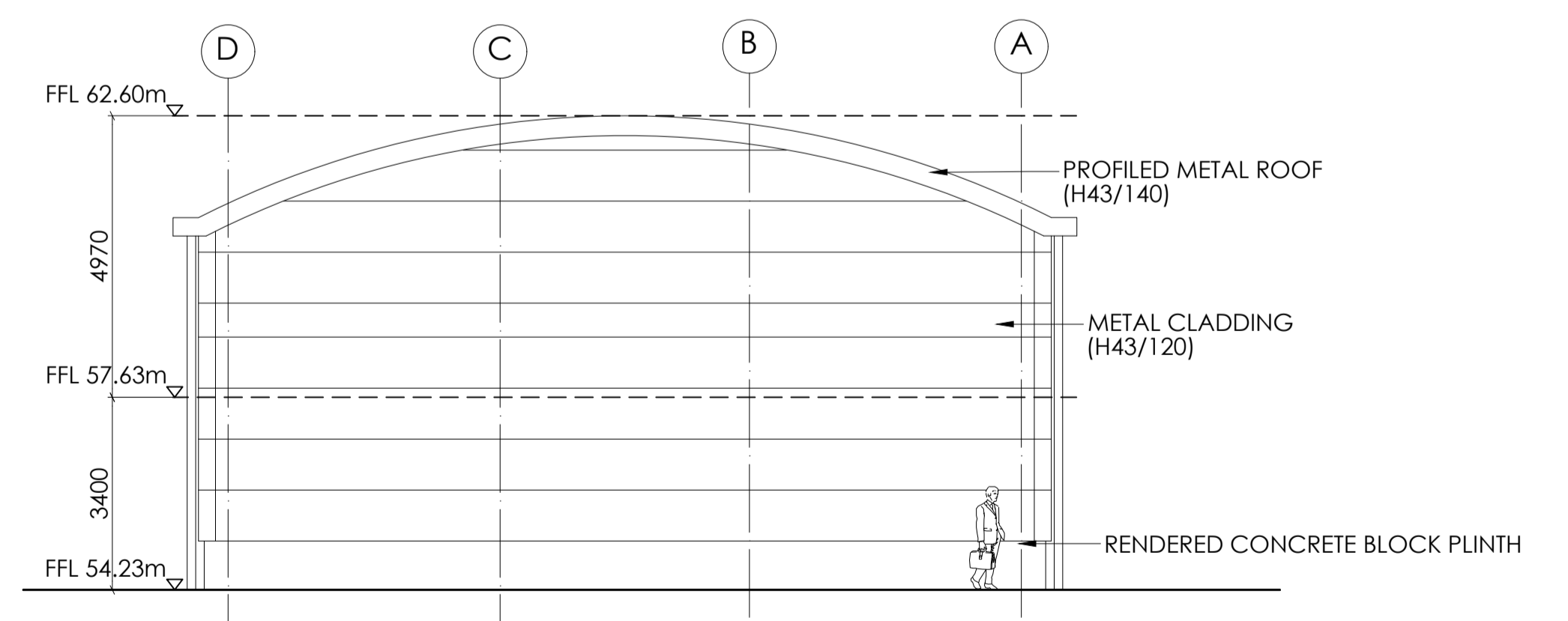
ELEVATION 1
SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 3
SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 2
SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 4
SCALE 1:100 (@ A1)
1:200 (@ A3)



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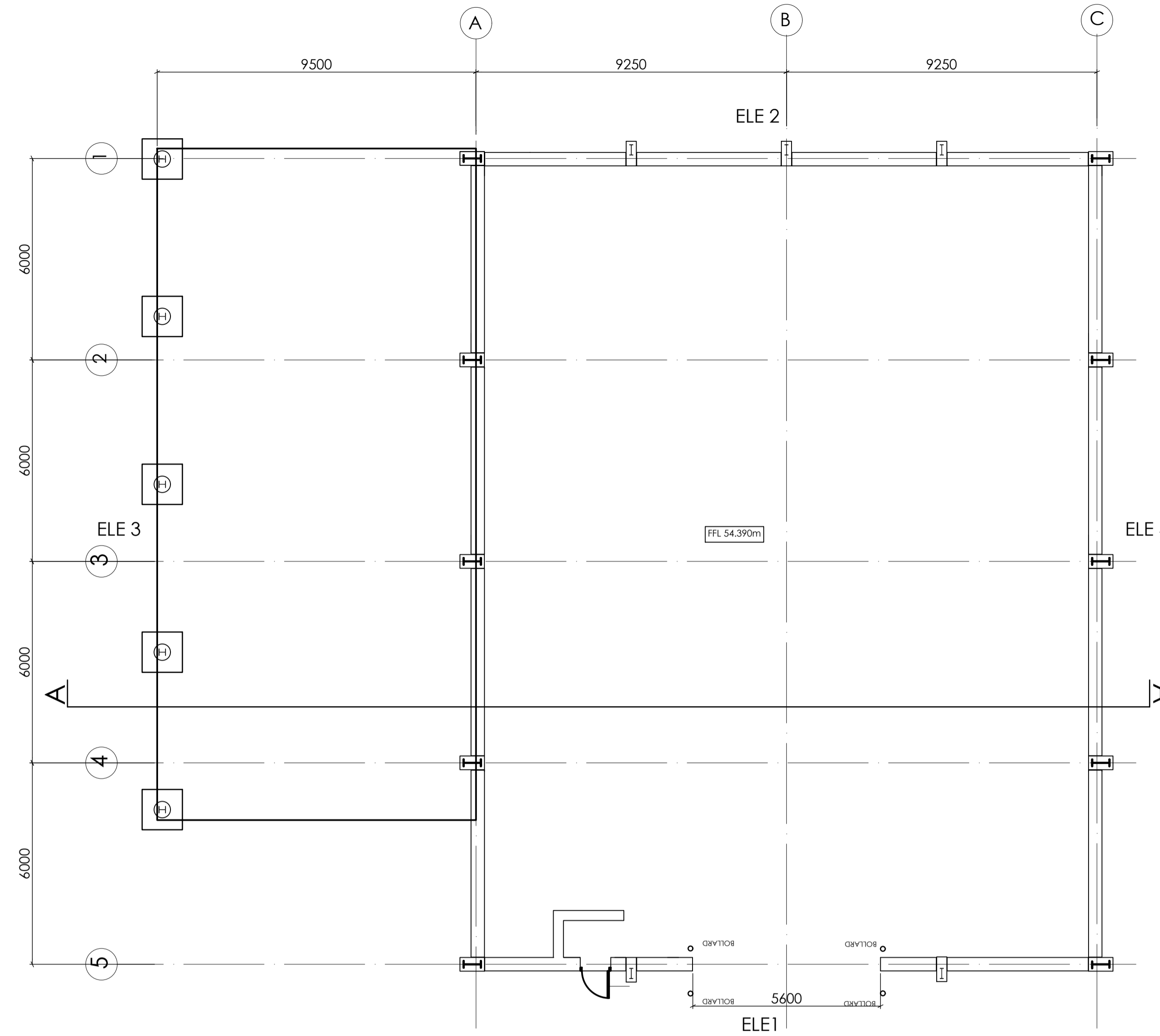


No.	Revision	Date	By	Chk'd	App'd



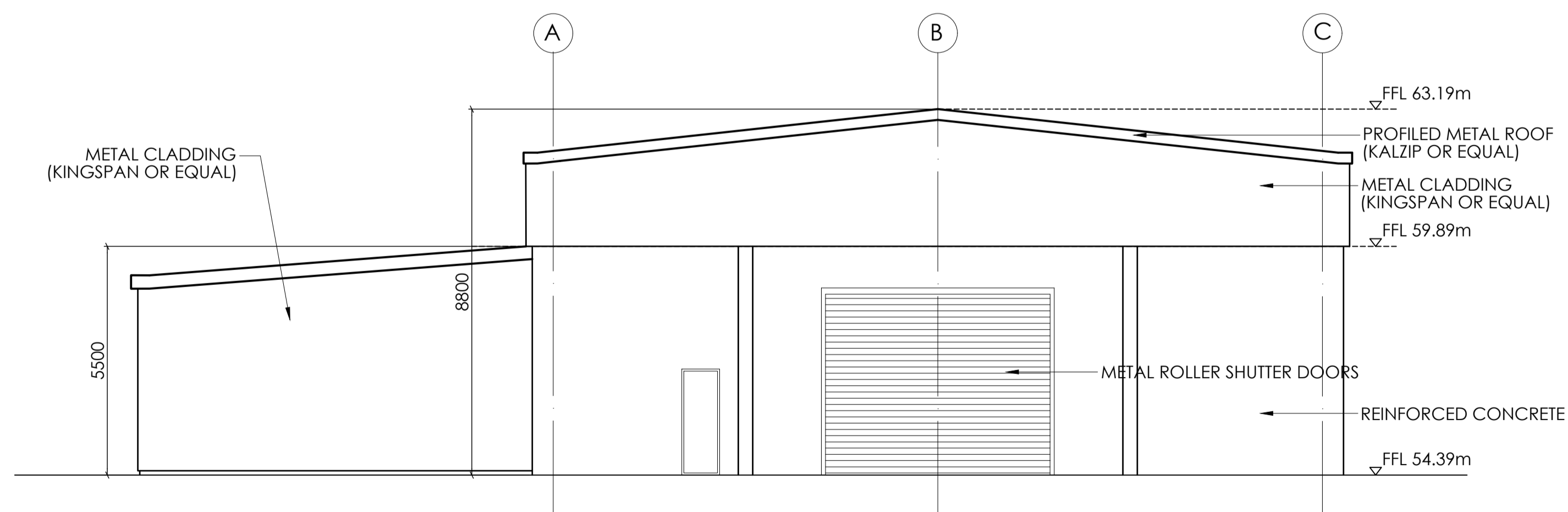
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Project Title STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title PROPOSED TII DEPOT MAINTENANCE AND OPERATIONS OFFICE SHEET 02 OF 02					
Project	Originator	Volume	Location	Type	Number
MCAAS2W-	ROD	-	SGN	-	TO15_AE - DR - CH - 300005
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114
Rev:	P01				



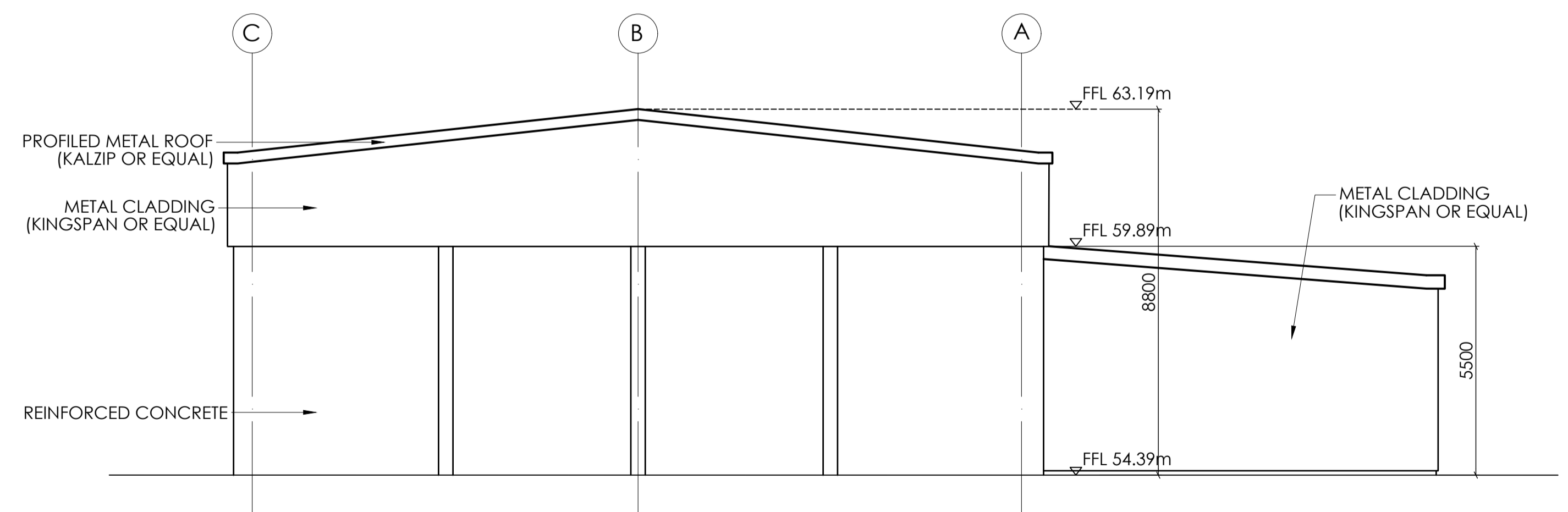
GROUND FLOOR PLAN

SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 1

SCALE 1:100 (@ A1)
1:200 (@ A3)



ELEVATION 2

SCALE 1:100 (@ A1)
1:200 (@ A3)



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No.	Revision	Date	By	Chk'd	App'd

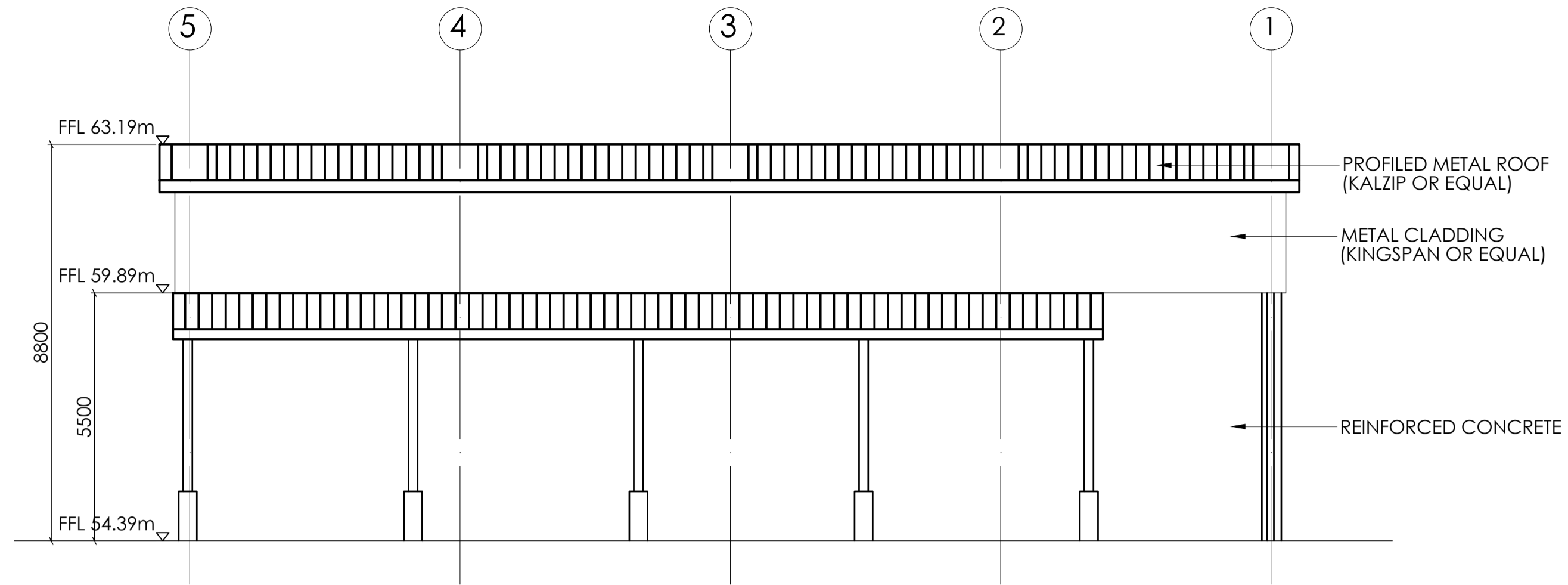


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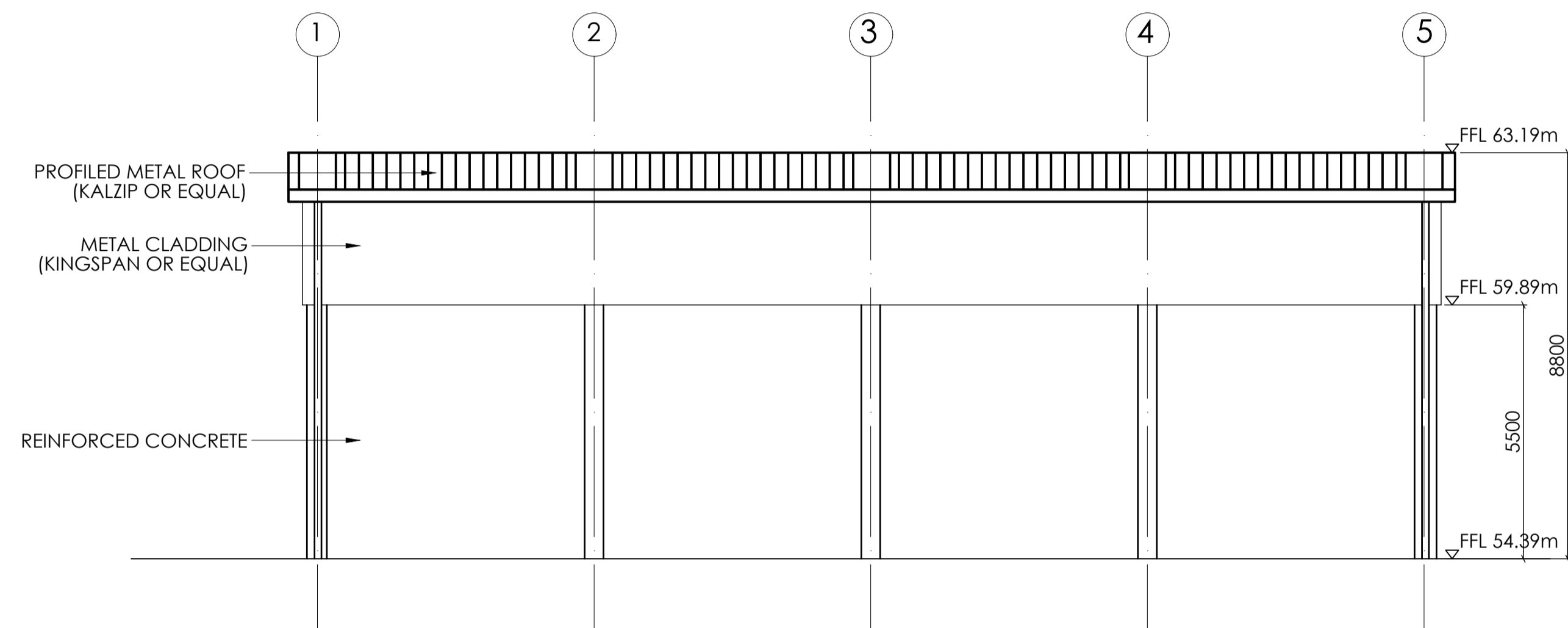
Drawn: LA | Designed: CL | Checked: EW | Approved: EW | Status: A1 - Approved/Accepted

Project Title STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title PROPOSED TII DEPOT MAINTENANCE SALT BARN SHEET 01 OF 02					
Project	Originator	Volume	Location	Type	Role
MCAAS2W-	ROD	-	SGN - TO15_AE	-	DR - CH -
Drawing Number	300006				
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114
Rev:	P01				

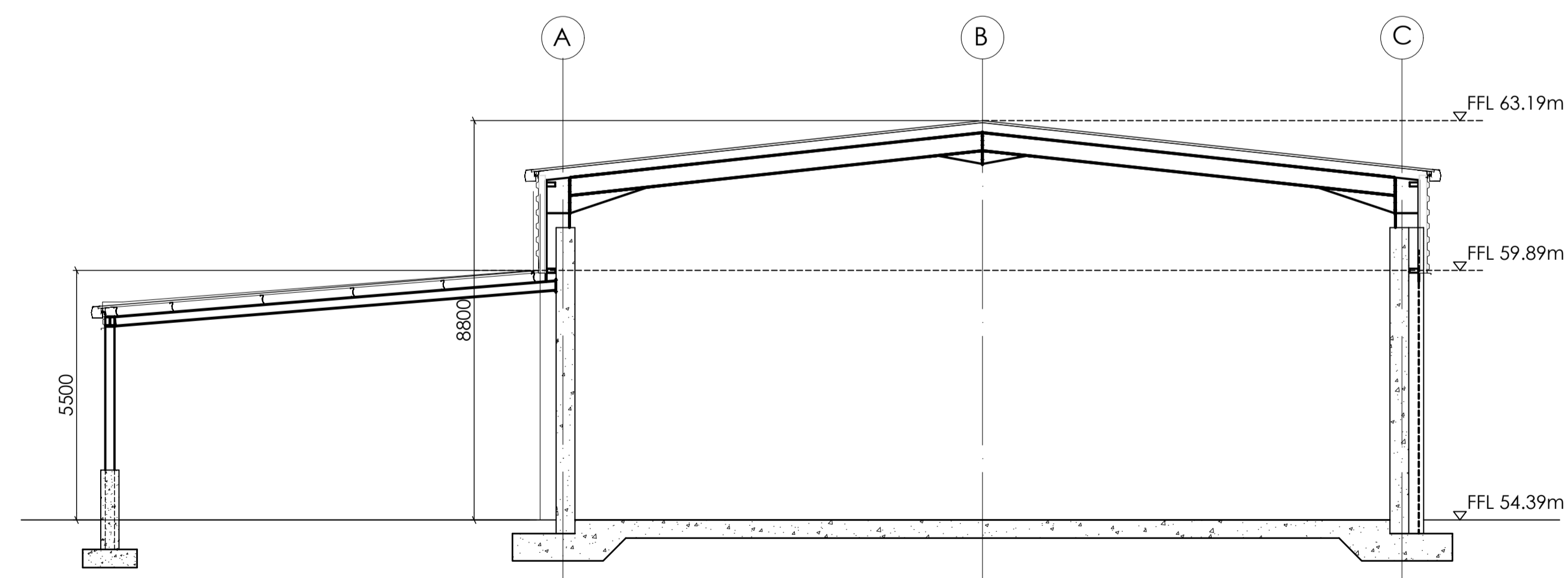
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ELEVATION 3
 SCALE 1:100 (@ A1)
 1:200 (@ A3)



ELEVATION 4
 SCALE 1:100 (@ A1)
 1:200 (@ A3)



SECTION A
 SCALE 1:100 (@ A1)
 1:200 (@ A3)

No.	Revision	Date	By	Chk'd	App'd



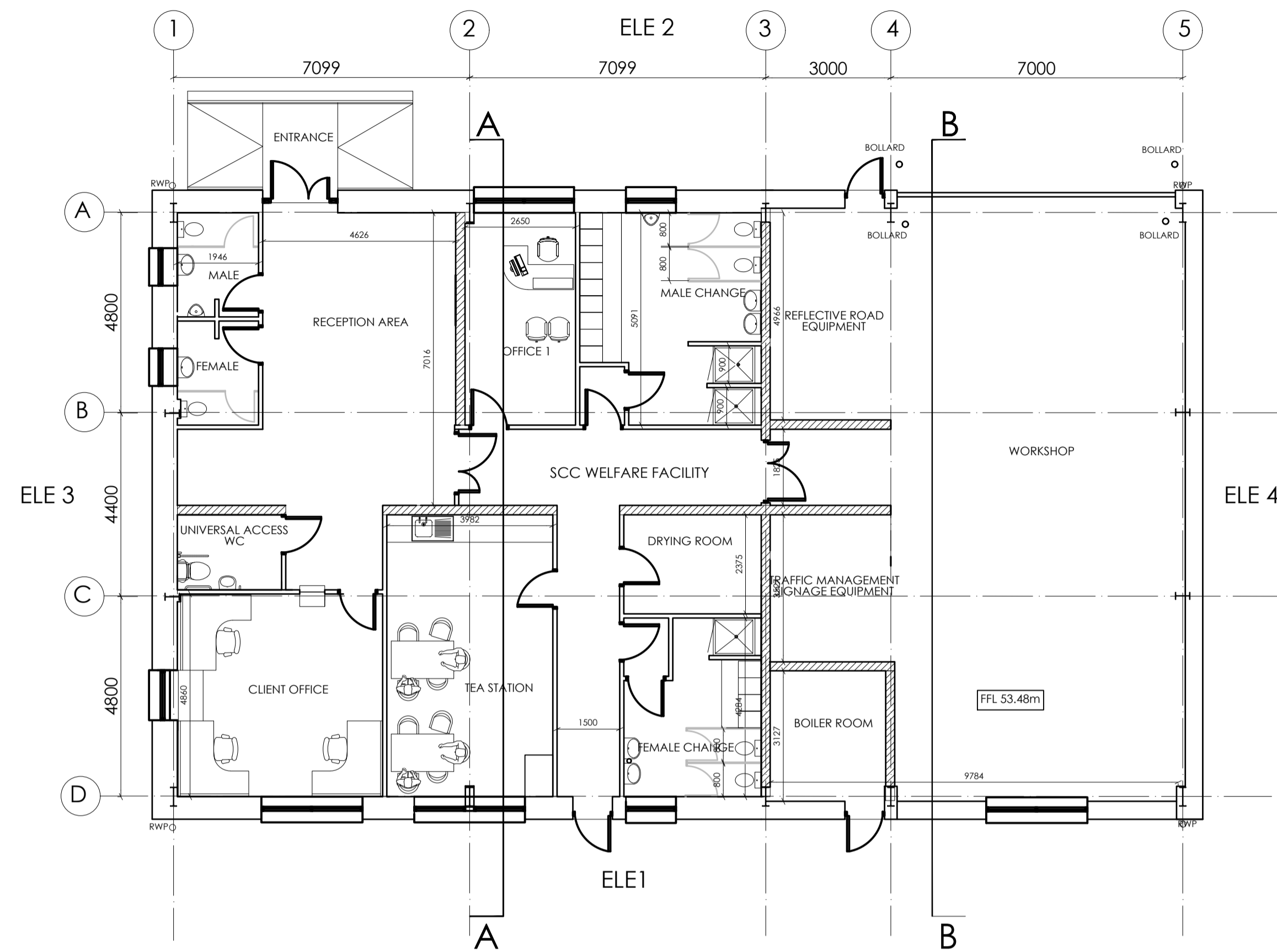
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Project Title							STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN								
Drawing Title							PROPOSED TII DEPOT MAINTENANCE SALT BARN SHEET 02 OF 02								
Project	Originator	Volume	Location	Type	Role	Number									
MCAAS2W-	ROD	-	SGN	-	TO15_AE	-	DR	-	CH	-	300007				
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114	Rev:	P01								



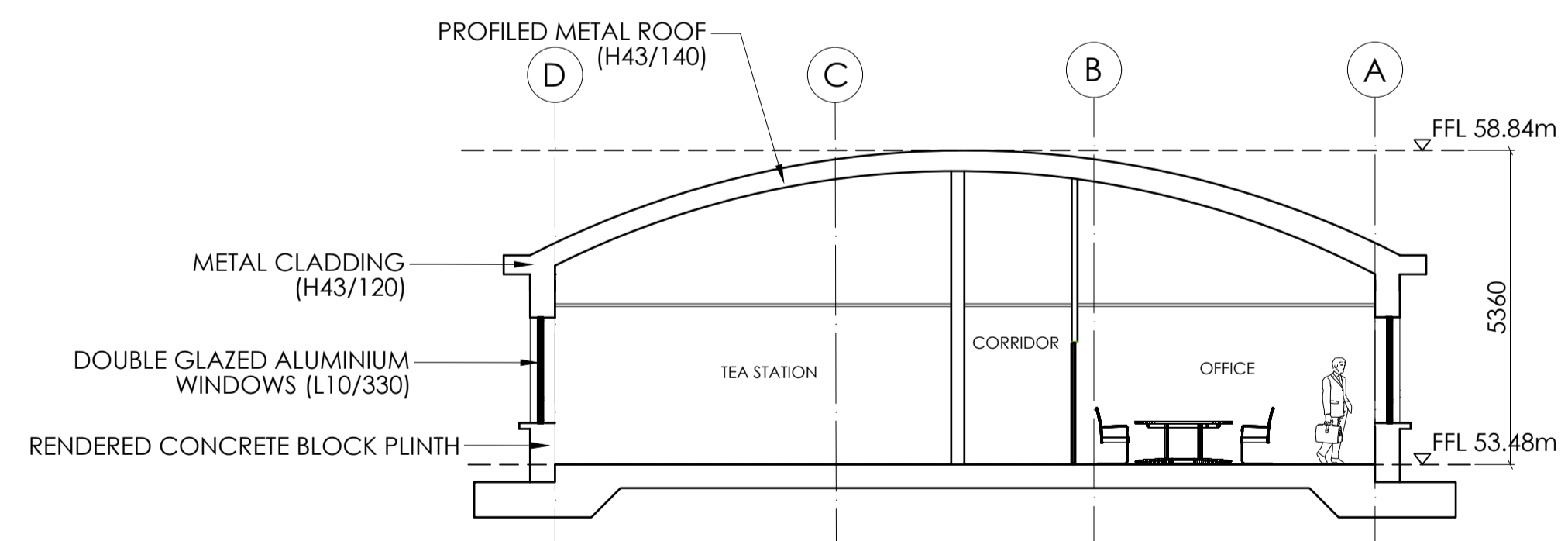
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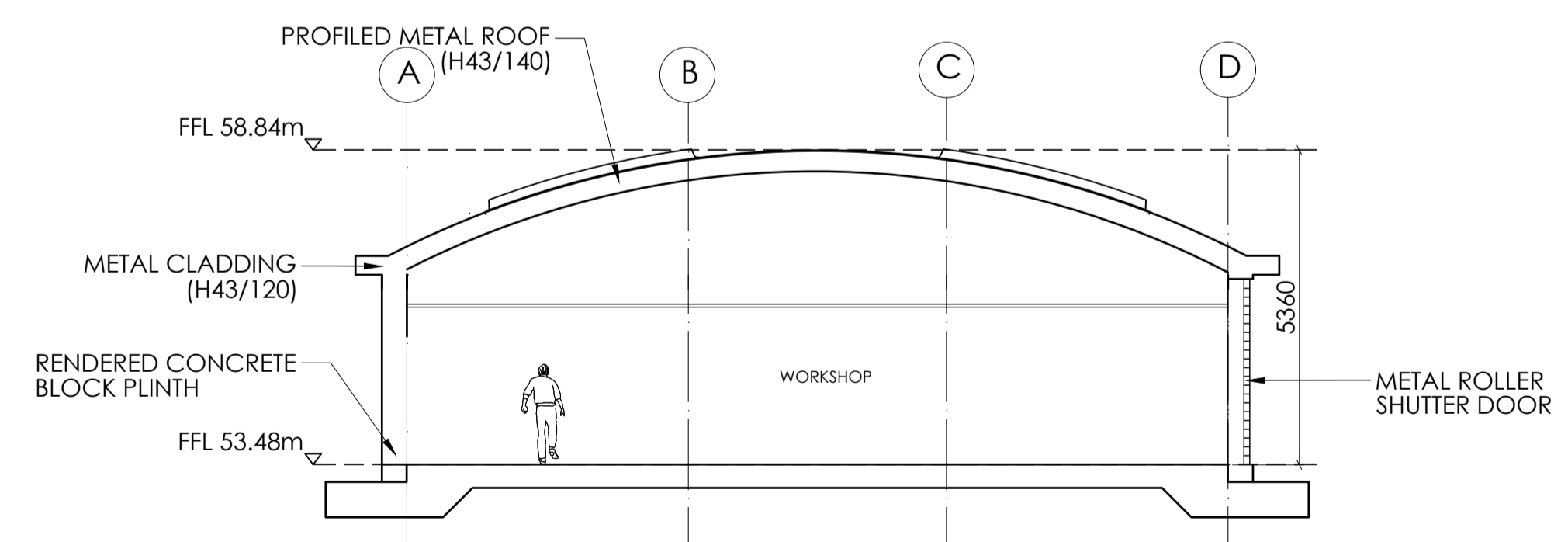
Ground Floor Plan

SCALE 1:100 (@ A1)
1:200 (@ A3)



SECTION A-A

SCALE 1:100 (@ A1)
1:200 (@ A3)



SECTION B-B

SCALE 1:100 (@ A1)
1:200 (@ A3)



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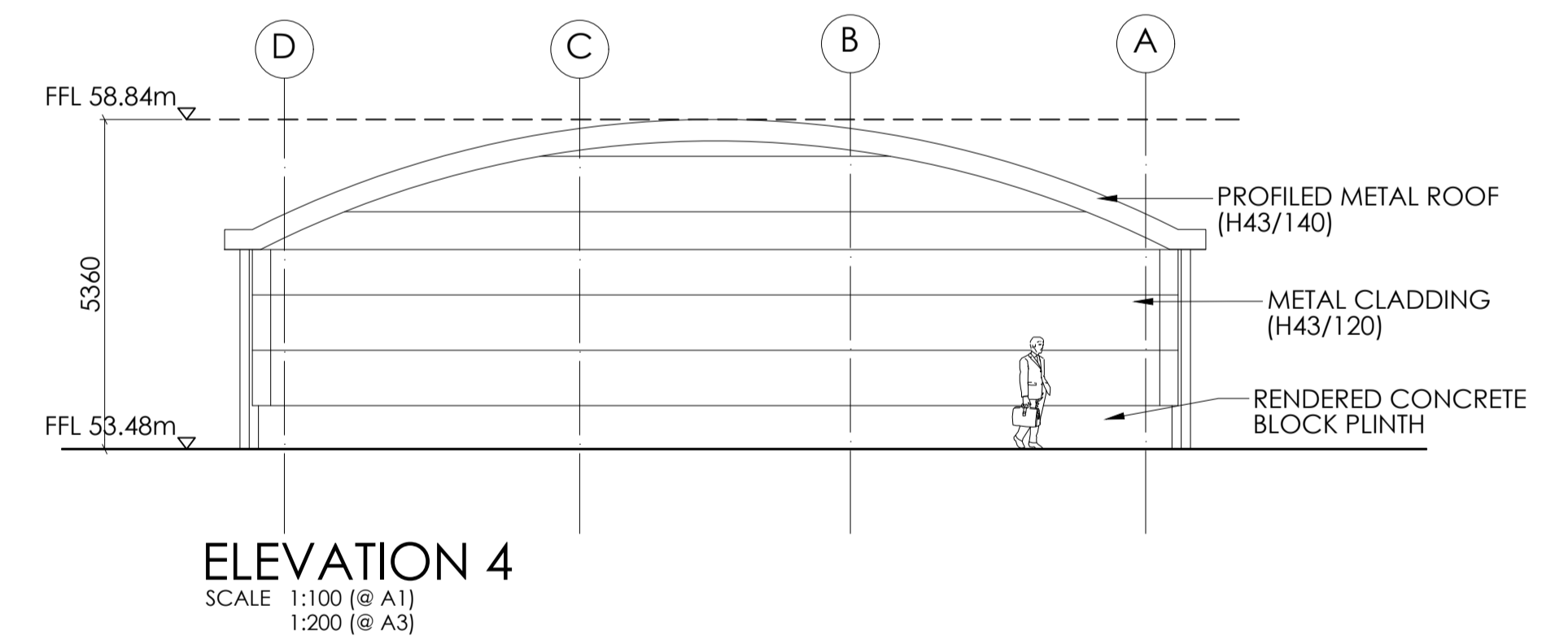
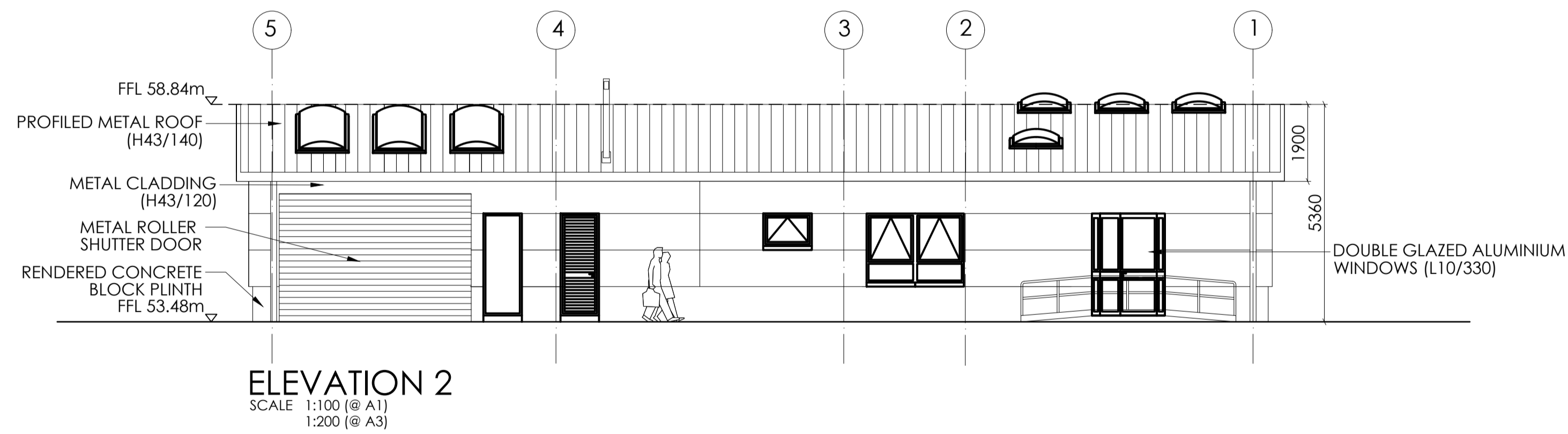
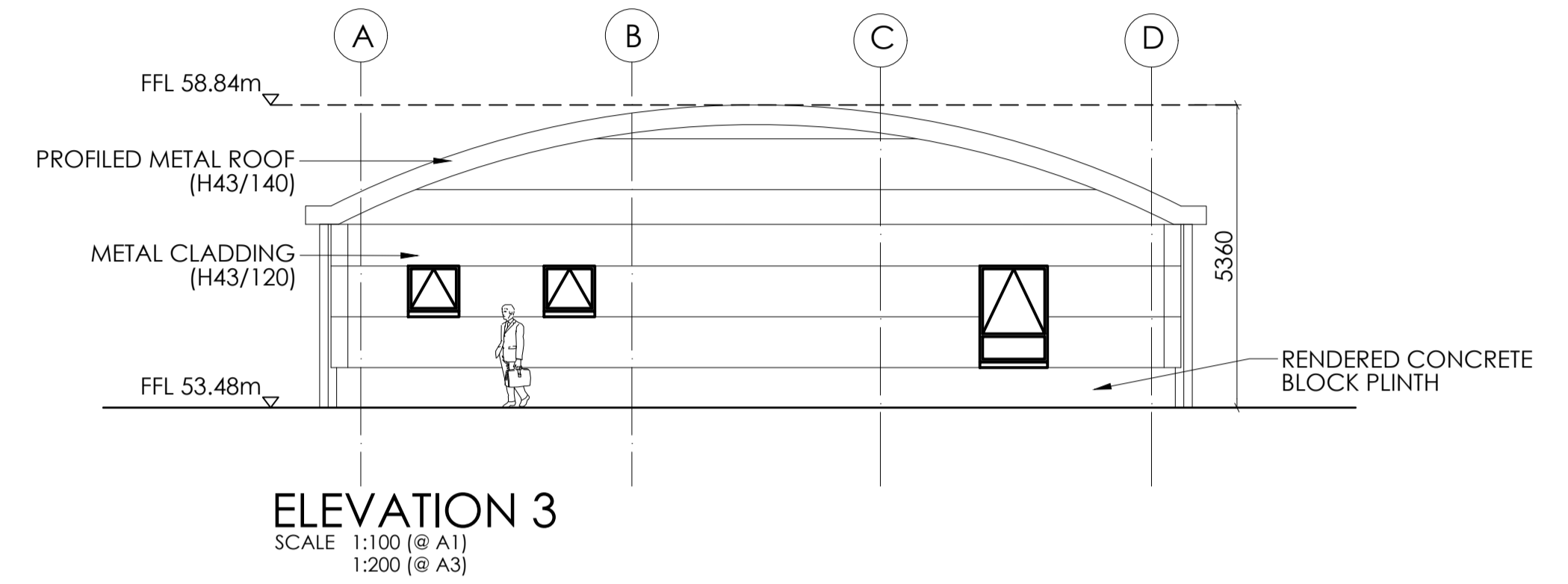
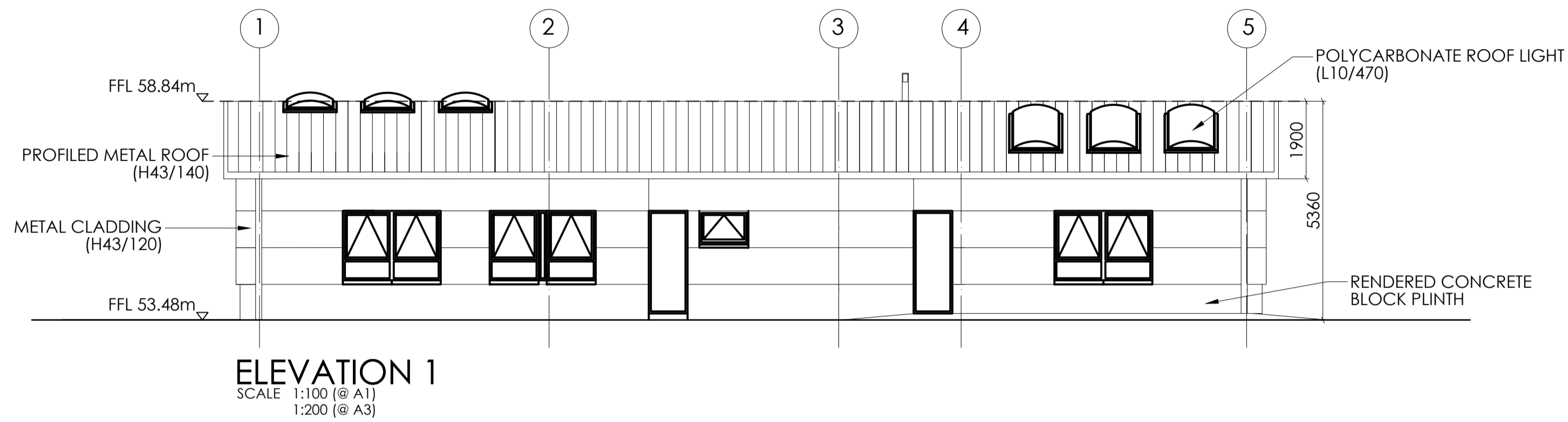
No.	Revision	Date	By	Chk'd	App'd





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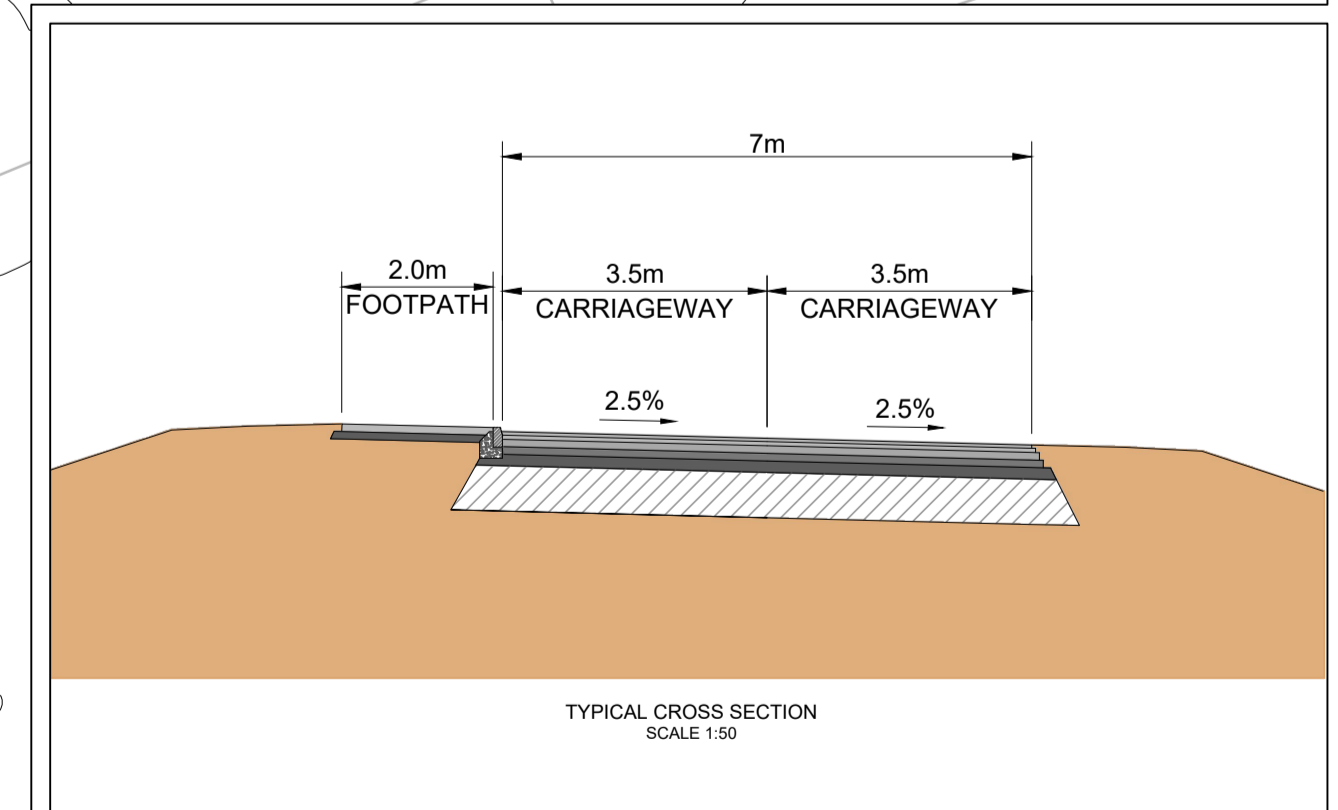
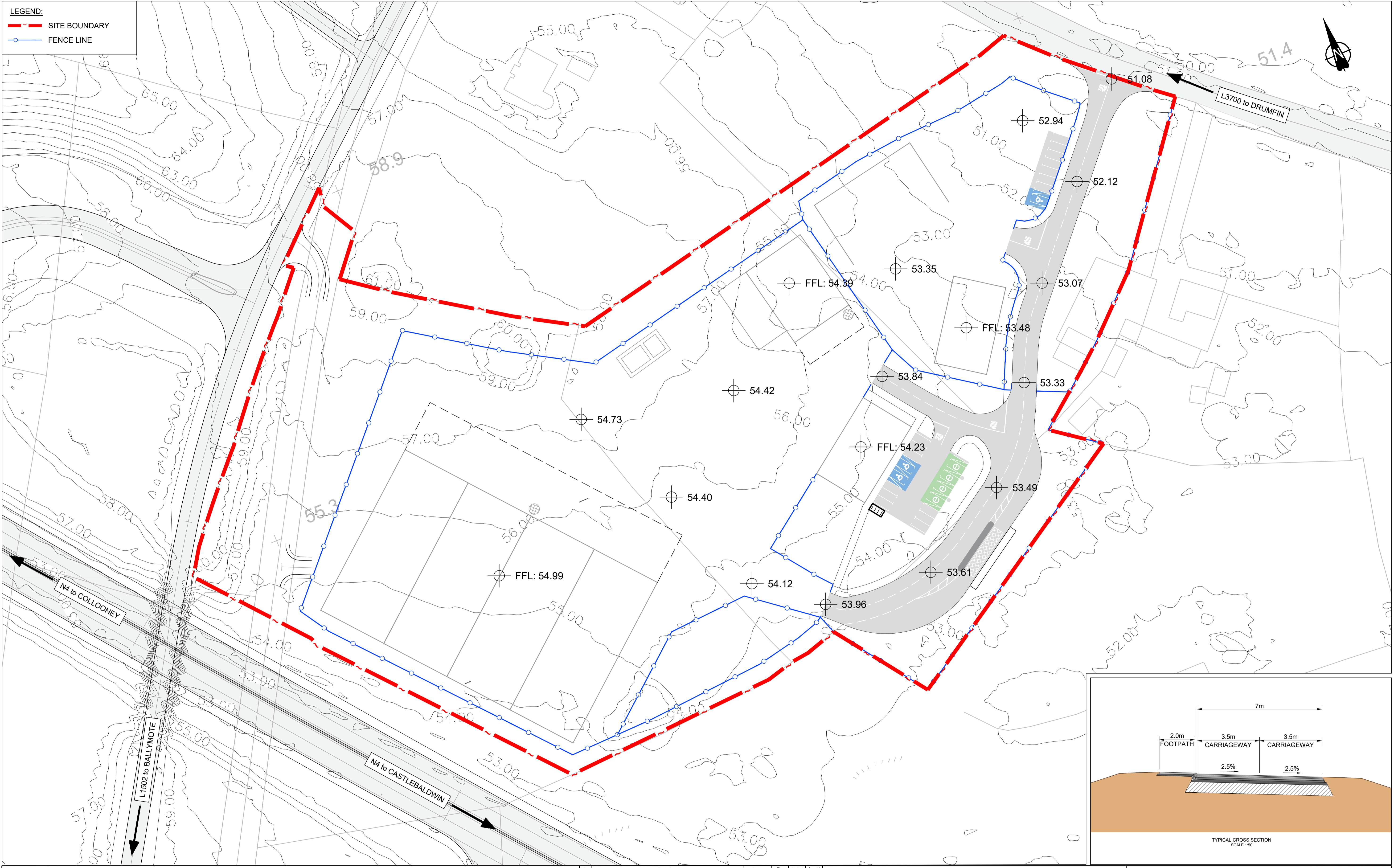
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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN				
Drawing Title	PROPOSED SCC DEPOT WELFARE FACILITIES AND WORKSHOP SHEET 01 OF 02				
Drawing Number	MCAAS2W-	ROD	- SGN	- TO15_AE	- DR - CH - 300008
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114
Rev:	P01				



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	No.	Revision	Date	By	Chk'd	App'd																																																																							
Drawn: LA Designed: CL Checked: EW Approved: EW Status: A1 - Approved/Accepted	PROPOSED SCC DEPOT STAFF WELFARE FACILITIES SHEET 02 OF 02																																																																												
Project: MCAAS2W- Originator: ROD Volume: SGN Location: TO15_AE Type: DR Role: CH Number: 300009	Scale (A1): AS SHOWN Date: JULY 2023 Job No: 21.114 Rev: P01																																																																												

LEGEND:
 SITE BOUNDARY
 FENCE LINE







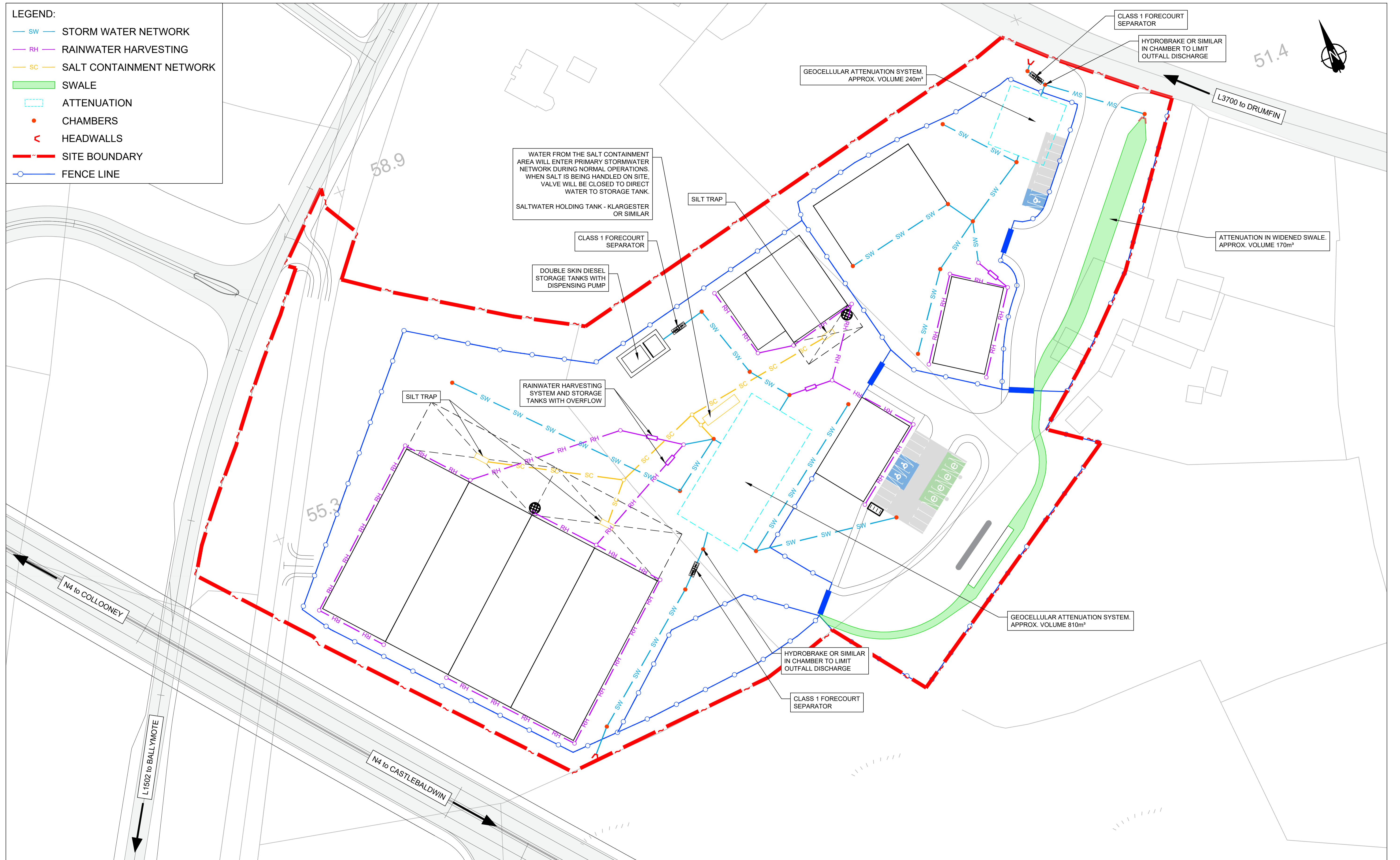

No.	Revision	Date	By	Chkd	App'd


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STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN
 PROPOSED ROAD LAYOUT SHEET 01 OF 01
 Project | Originator | Volume | Location | Type | Role | Number
 Drawing Number: MCAAS2W- ROD - HGN - TO15_AE - DR - CH - 300001
 Scale (A1): 1:500 Date: JULY 2023 Job No: 21.114 Rev: P01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

- LEGEND:**
- SW — STORM WATER NETWORK
 - RH — RAINWATER HARVESTING
 - SC — SALT CONTAINMENT NETWORK
 - SWALE
 - - - ATTENUATION
 - CHAMBERS
 - < HEADWALLS
 - - - SITE BOUNDARY
 - FENCE LINE



No.	Revision	Date	By	Chk'd	App'd

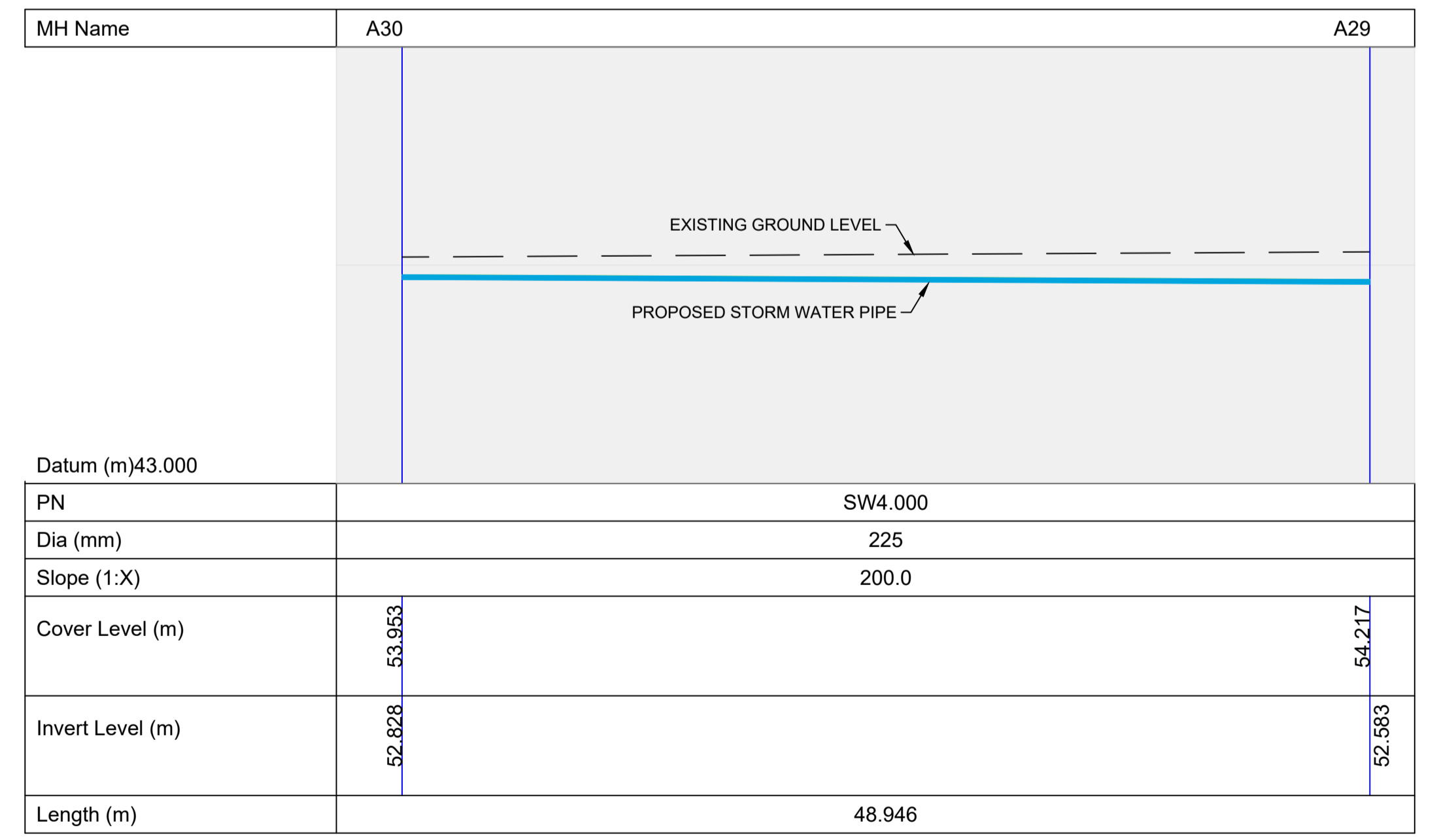
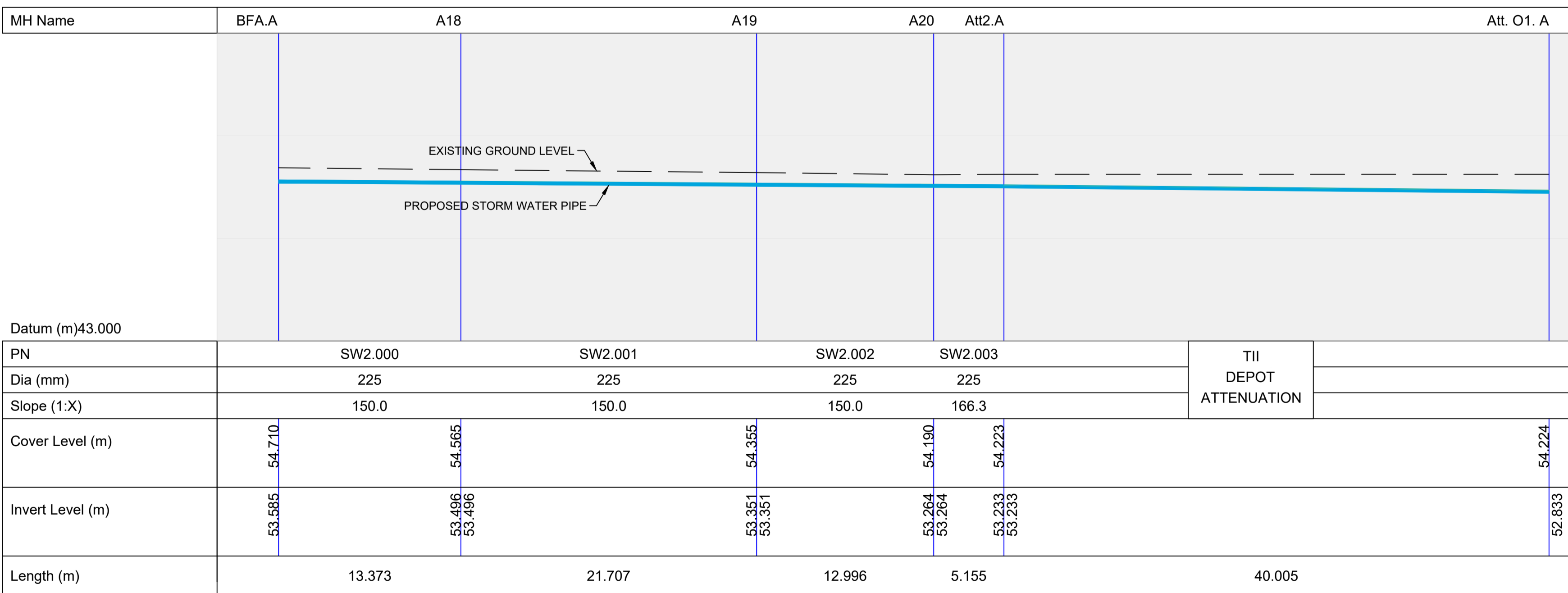
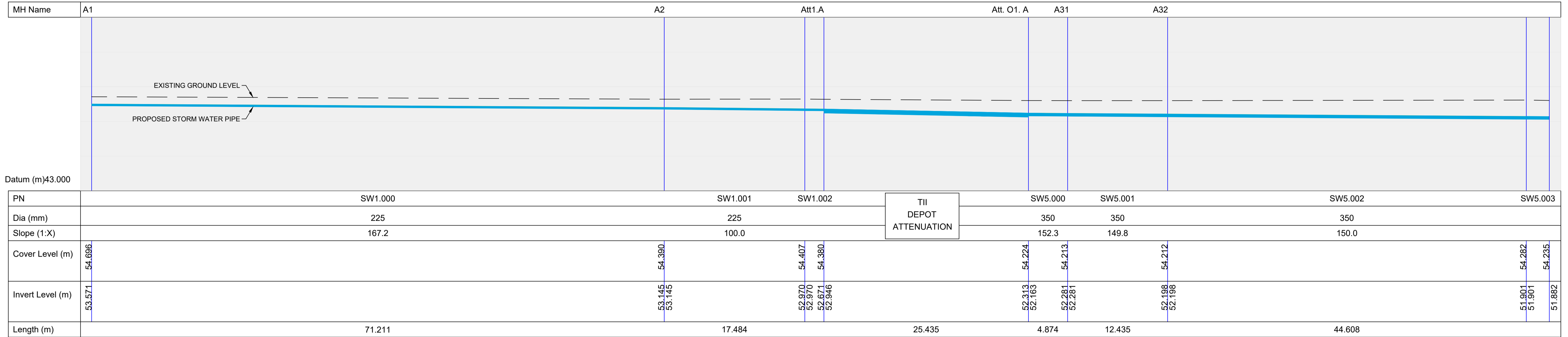
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Drawn: LA	Designed: EC	Checked: AS	Approved: EW	Status: A1 - Approved/Accepted
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Project Title		STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN				
Drawing Title		PROPOSED STORMWATER DRAINAGE LAYOUT SHEET 01 OF 01				
Project	Originator	Volume	Location	Type	Role	Number
MCAAS2W-	ROD	-	HDG - TO15_AE	-	DR - CH	- 300501
Scale (A1)	1:500	Date:	JULY 2023	Job No:	21.114	Rev: P01

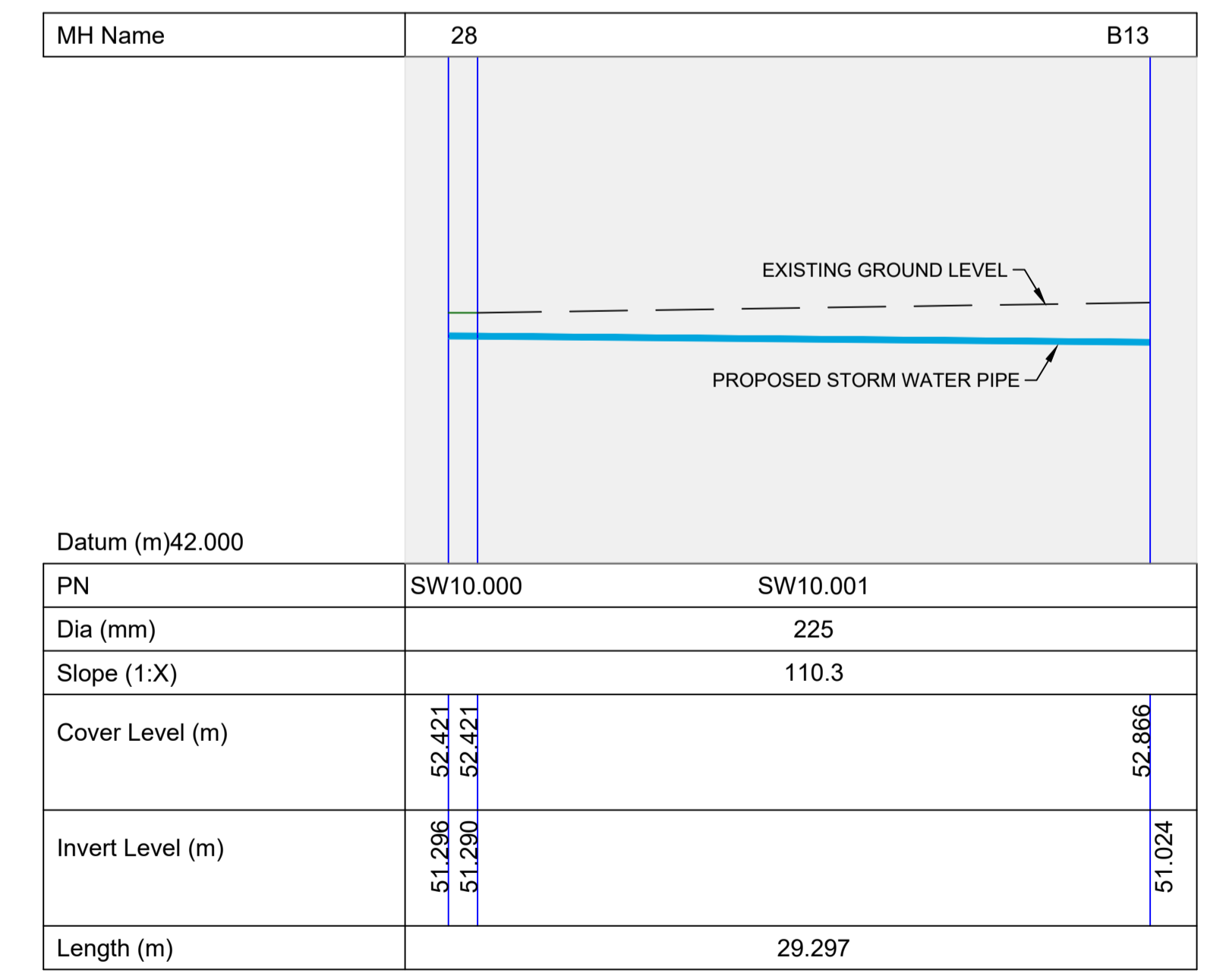
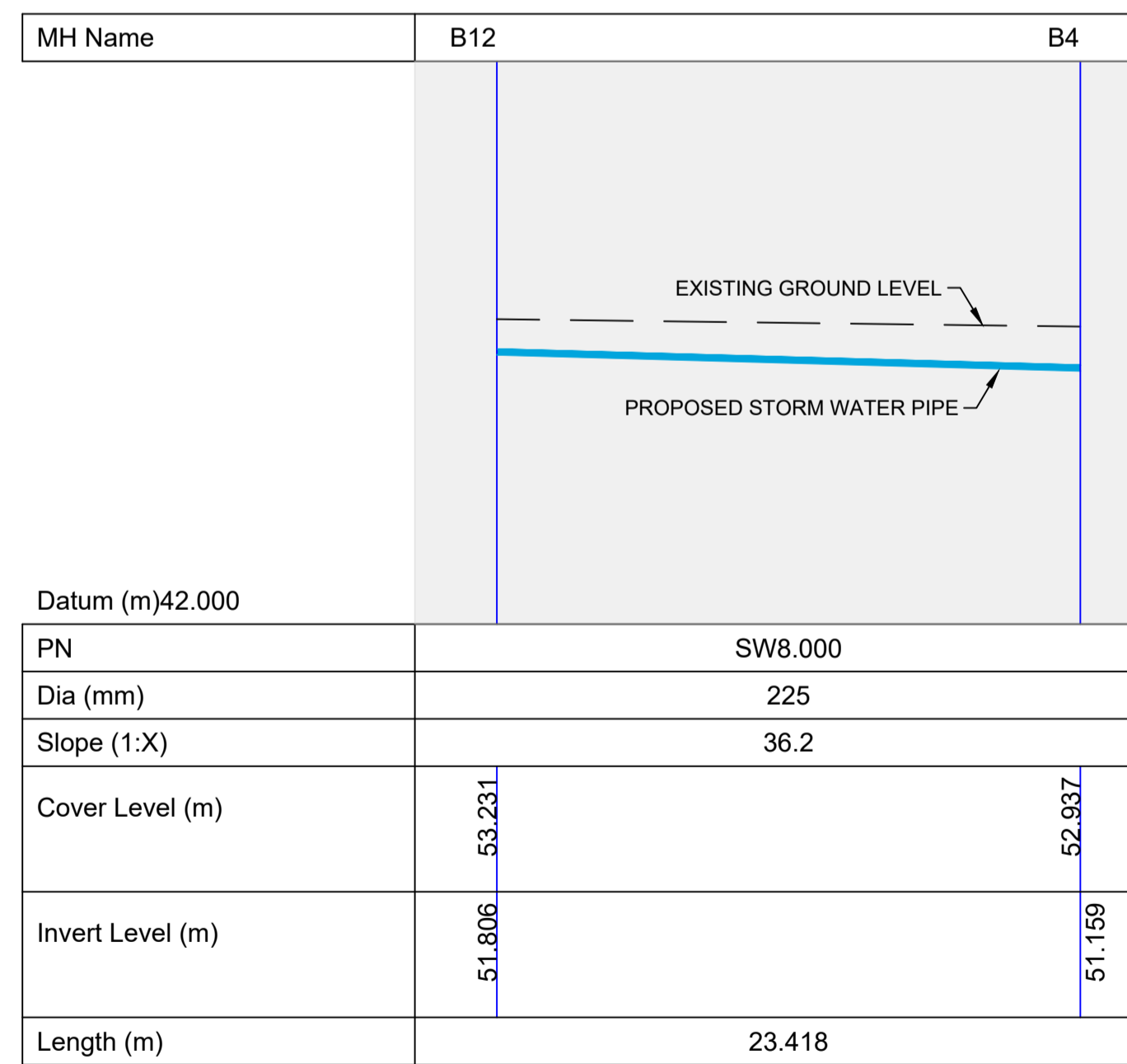
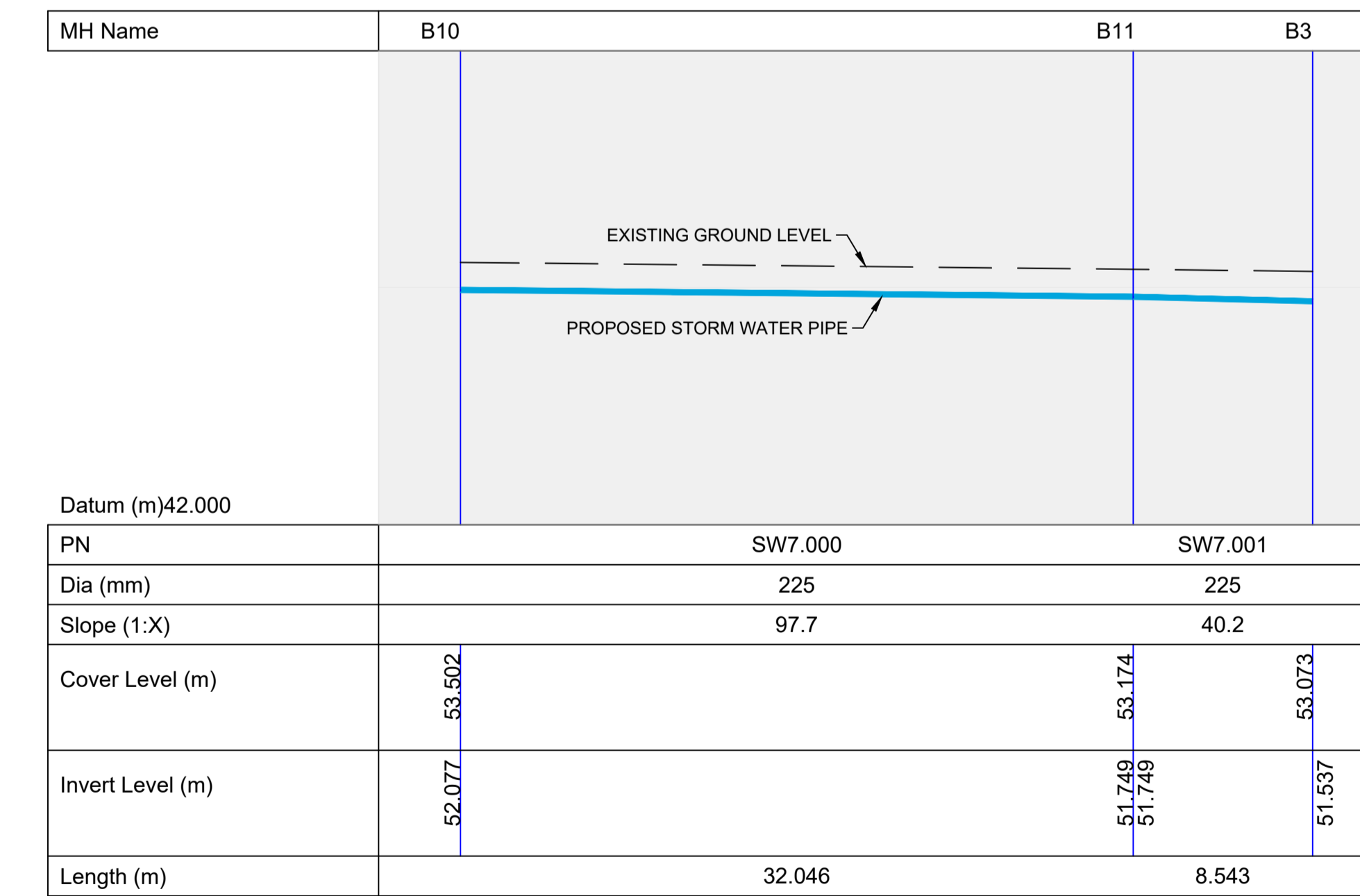
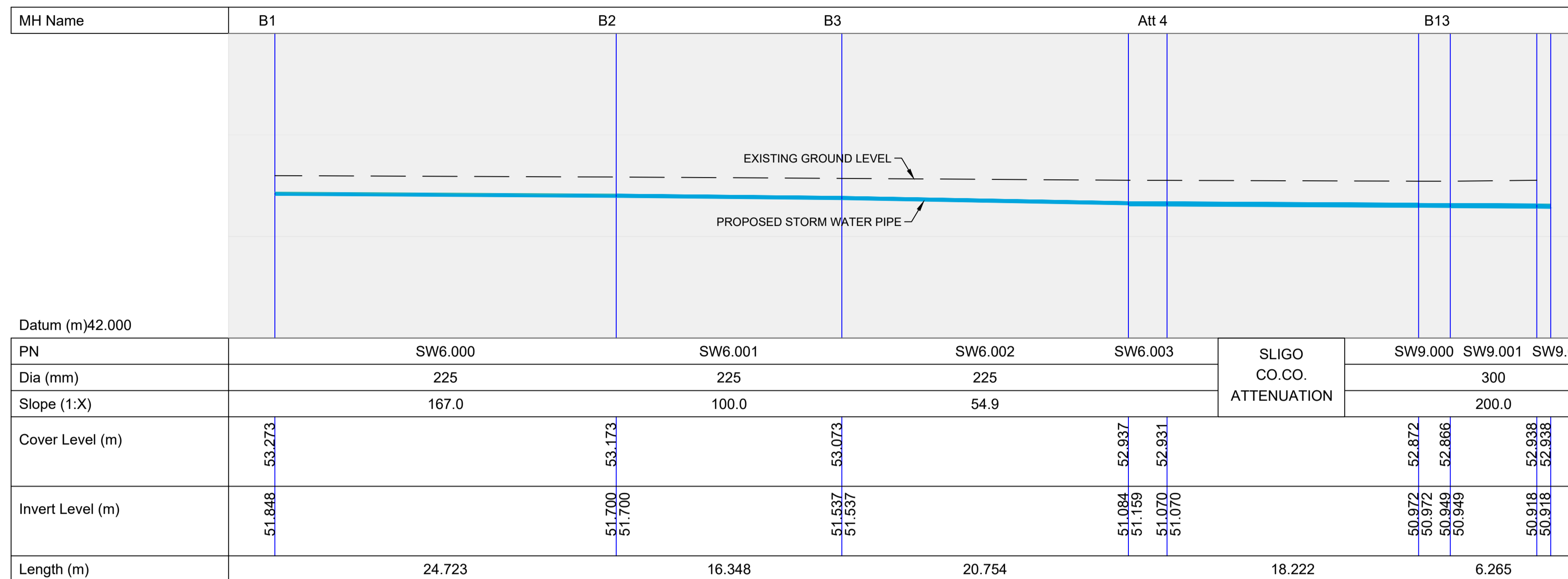




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Project Title		STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN			
Drawing Title		PROPOSED STORM NETWORK PIPE LONGSECTIONS SHEET 01 OF 02			
Project Number	Originator	Volume	Location	Type	Role
MCAAS2W-	ROD	- HDG -	TO15_AE	- DR -	CH -
300506					
Scale (A1)	1:250	Date	JULY 2023	Job No.	21.114
Drawn:	MG	Designed:	CL	Checked:	EW
Approved:	EW	Status:	A1 - Approved/Accepted		



No.	Revision	Date	By	Chkd	App'd

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Project Title: STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title: PROPOSED STORM NETWORK PIPE LONGSECTIONS SHEET 02 OF 02					
Project	Originator	Volume	Location	Type	Role
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Number	300507				
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Approved:	EW	Status:	A1 - Approved/Accepted		
Scale (A1)	1:250	Date:	JULY 2023	Job No:	21.114
Rev:	P01				

LEGEND:

- FOUL WATER NETWORK
- MANHOLE
- - - SITE BOUNDARY
- FENCE LINE



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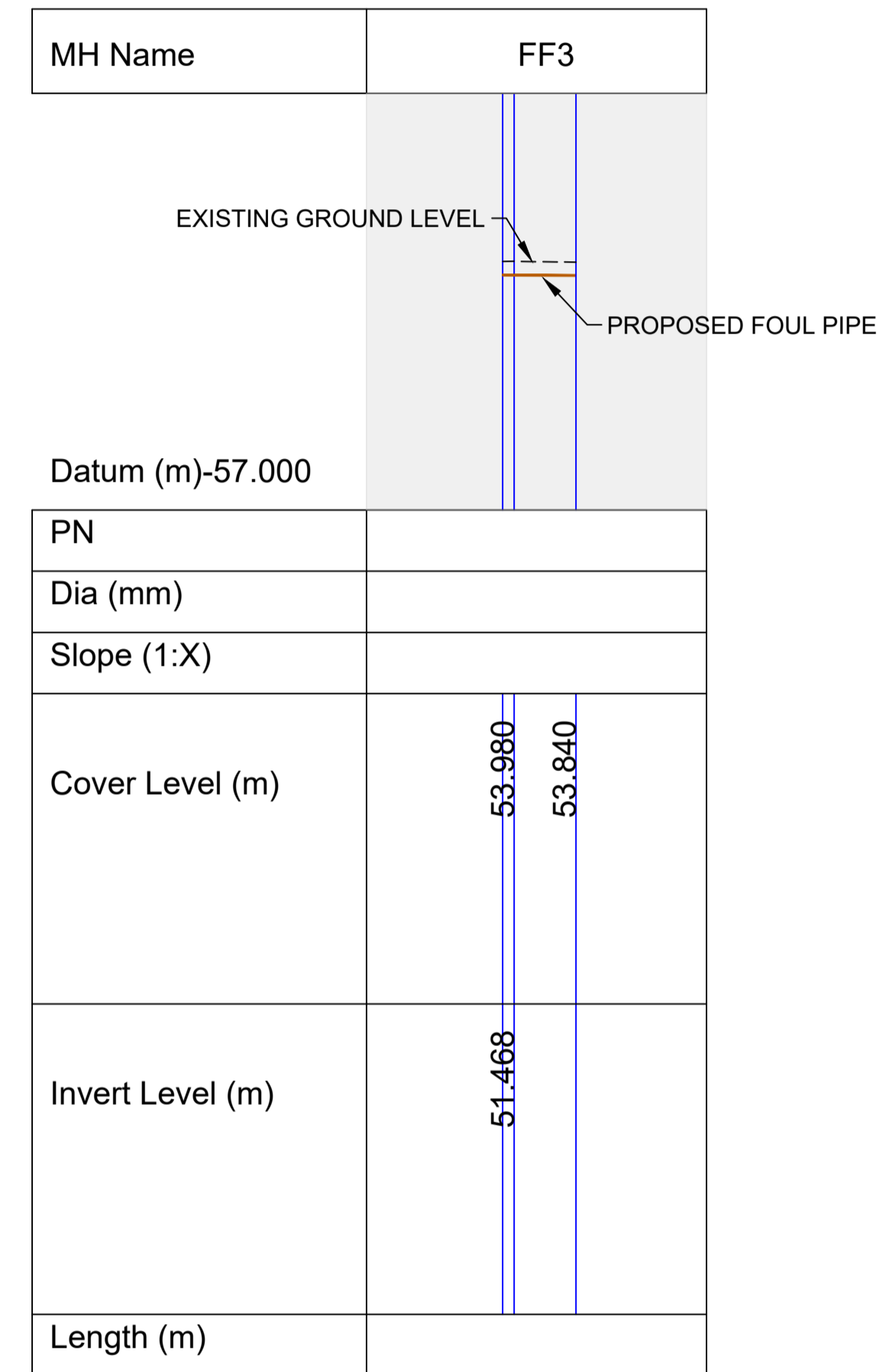
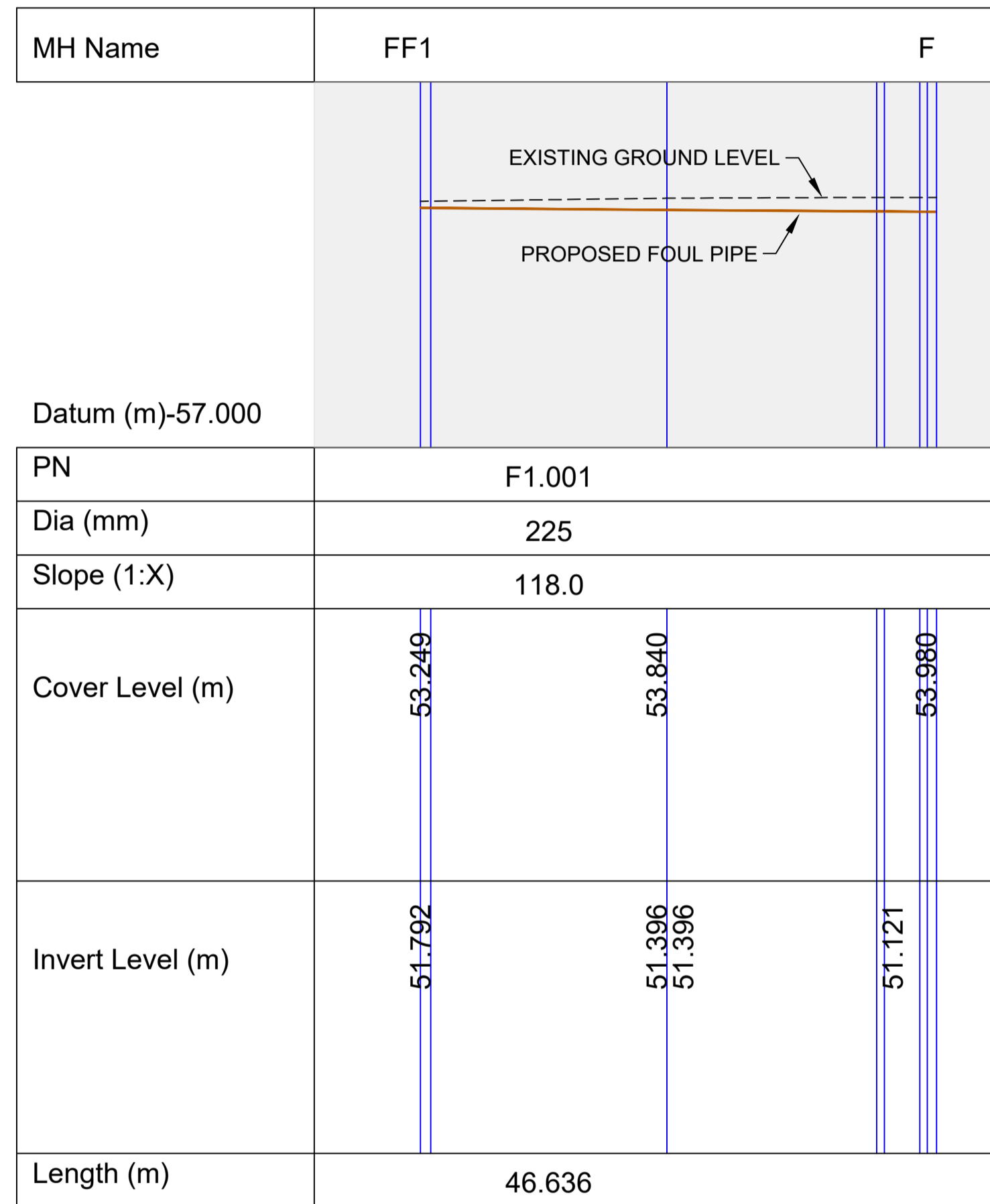
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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN				
Drawing Title	PROPOSED FOUL WATER DRAINAGE LAYOUT SHEET 01 OF 01				
Drawing Number	MCAAS2W-	ROD	- HDG -	TO15_AE	- DR - CH - 300503
Scale (A1)	1:500	Date:	JULY 2023	Job No:	21.114
				Rev:	P01



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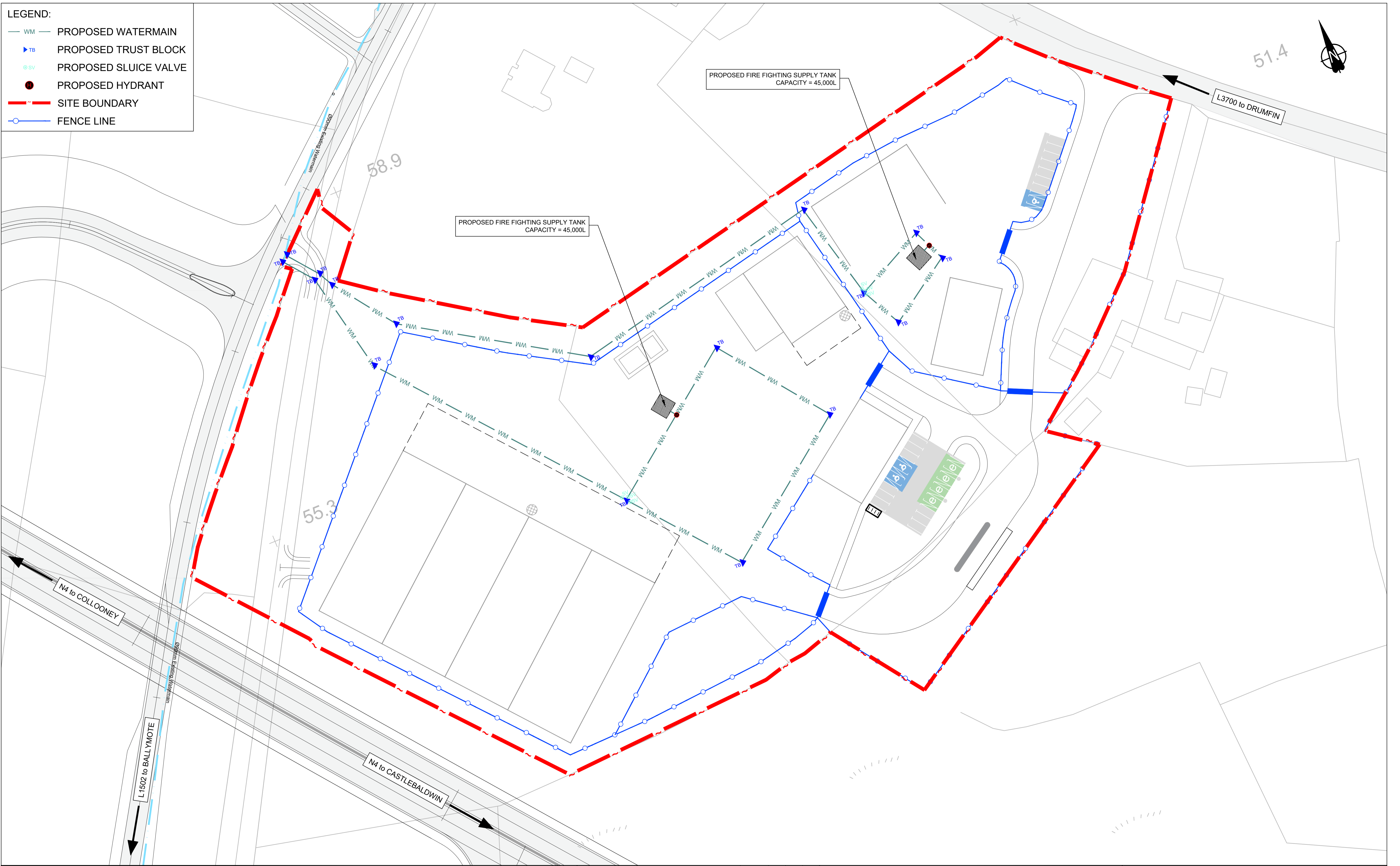
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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN						
Drawing Title	PROPOSED FOUL NETWORK PIPE LONGSECTIONS SHEET 01 OF 01						
Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
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Scale (A1)	1:1000	Date:	JULY 2023	Job No:	21.114	Rev:	P01

- LEGEND:**
- WM — PROPOSED WATERMAIN
 - ▶ TB PROPOSED TRUST BLOCK
 - ⊙ SV PROPOSED SLUICE VALVE
 - PROPOSED HYDRANT
 - - - SITE BOUNDARY
 - FENCE LINE



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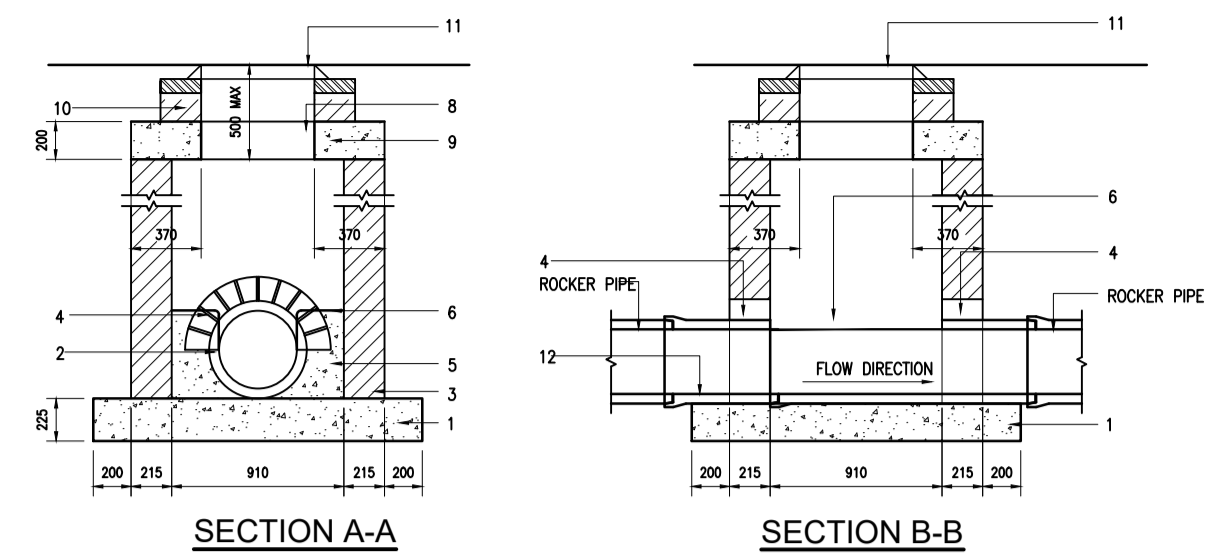
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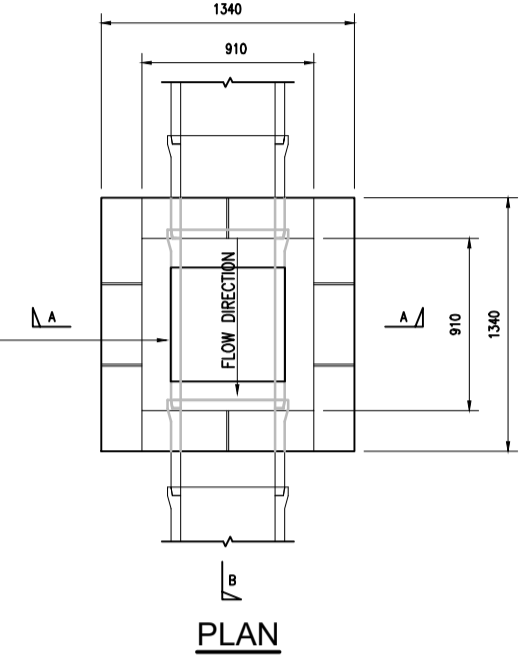
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Scale (A1)	1:500	Date:	JULY 2023	Job No:	21.114	Rev:	P01

- MANHOLE GENERAL NOTES:**
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
 - ALL BRICK TO BE SOLID ENGINEERING BRICK CLASS A OR B
 - FOR PIPE DIAMETER >750MM USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE + 1 METRE + 300MM
 - DISTANCE FROM TOP RING OF THE LADDER TO GROUND LEVEL MUST BE A MAXIMUM OF 500MM
- MANHOLE DRAWING NOTES:**
- 225mm THICK CL20/20 MASS CONCRETE FOUNDATIONS.
 - PREFORMED HALF CIRCLE CHANNEL PIPES. THE PIPELINE MAY WHERE PRACTICABLE, BE LAID THROUGH THE MANHOLE AND THE CROWN CUT OUT TO HALF DIAMETER. PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM THE INNER FACE OF THE MANHOLE WALL.
 - MANHOLE CONSTRUCTION FOR SURFACE WATER MANHOLES HIGH DENSITY BLOCKS TO CLS10 OF LS20 PART 1: 1997 OR CL30/20 IN-SITU CONCRETE BLOCKWORK SHALL BE BEDDED AND JOINTED USING MORTAR DESIGNATION THREE TO LS406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS. ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (M1 CLASS A OR B), OR IN-SITU CONCRETE FOR FULL HEIGHT. BRICK TO BE BONDED TO BLOCKWORK USING ENGLISH GARDEN WALL BOND.
 - RELIEVING ARCH FORMED BY 215x103x65 BRICK CLASS A OR B AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCKWORK MANHOLES TO EXTEND OVER FULL THICKNESS OF WALL. A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm.
 - BENCHING AND PIPE CHANNEL PIPE SURROUND -CL20/20 CONCRETE.
 - BENCHING FINISHED IN 2:1 SAND-CEMENT MORTAR WITH SMOOTH TROWEL FINISH. AT 1 IN 30 SLOPE TOWARDS CHANNEL.
 - STANDARD RINGS AT 300/c VERTICALLY AND GALVANISED TO LATEST VERSION OF BS729 OR EQUIVALENT.
 - 600mm SQUARE OPE. IN ROOF SLAB.
 - PRECAST R.C. ROOF SLAB SHALL BE 200MM THICK IN CL30N/20MM CONCRETE, WITH 40MM COVER TO STEEL.
 - 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS B TO LS.91:1983 SET IN 1:3 (CEMENT AND MORTAR)
 - CLASS E600 MANHOLE COVER AND FRAME TO IS/EN 124. 150mm DEEP FRAME FOR ROADS; 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN. CLOSED KEYWAYS, MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), 600x600 (OR 600 DIAM) CLEAR OPENING. COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL. COVER TO HAVE A MINIMUM MASS OF 140kg/m². FRAME BEARING AREA SHALL BE 80,000mm². MIN. FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURER'S CONSTRUCTIONS.
 - SHORT LENGTH PIPE, PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.
 - TOE HOLES OF 230mm MIN. DEPTH AND GALVANISED STEEL SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525 DIAMETER, AND DEPTH TO INVERT >3m FOR ACCESS TO INVERT.
 - SAFETY CHAIN TO BE PROVIDED ON PIPES THAT EXCEED 450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON CALIBRATED CHAIN TYPE 1, COMPLYING WITH BS: 4942 Part 2 OR EQUIVALENT.
 - WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS, TO BS4211 EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 45x12mm IN SECTION AND RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS 4211.
 - LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.
 - ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIP GALVANISED TO BS729.
 - SOCKET OF PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT THE CHANNEL EXTENDS FULL LENGTH OF THE MANHOLE (EXCEPT FOR PRECAST MANHOLES).
 - POSITION OF 910 SQUARE OPENING IN INTERMEDIATE ROOF SLAB.
 - ALL MANHOLES SHALL BE WATER TIGHT TO THE SATISFACTION OF THE ENGINEER.
 - FORMWORK TO REINFORCEMENT CONCRETE AND MASS CONCRETE SHALL COMPLY TO CLASS 2, SECTION 6.2.7, BS8110: PART 1: 1997.
 - FINISH TO THE TOP OF SLABS SHALL COMPLY TO TYPE A, SECTION 6.2.7, BS8110: PART 1: 1997.
 - PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK HAVING A CO-ORDINATING SIZE OF 450x225x100.
 - MANHOLES ARE DESIGNED TO BS8005 AND WALL THICKNESS TO IS325 BLOCKWORK DESIGN CODE TAKING GRANULAR FILL PRESSURE AND H.B. SURCHARGE.
 - REINFORCEMENT TO SLABS TO CONTRACT ADMINISTRATOR.
 - FOR MANHOLES >3.0m DEPTH TO INVERT USE 30N/20 IN-SITU CONCRETE. REINFORCING MESH REF. A393 @6.18kg/m TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.
 - FOR PRECAST MANHOLES, CHAMBER WALLS AND COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 AND IS 420 2004.
 - MANHOLE OPENING TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS/ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC.
 - FOR BEDDING AND SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST COVER SLAB) AND BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PRE-FORMED JOINTING STRIP.
 - PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150MM THICK GRADE C20/40 CONCRETE



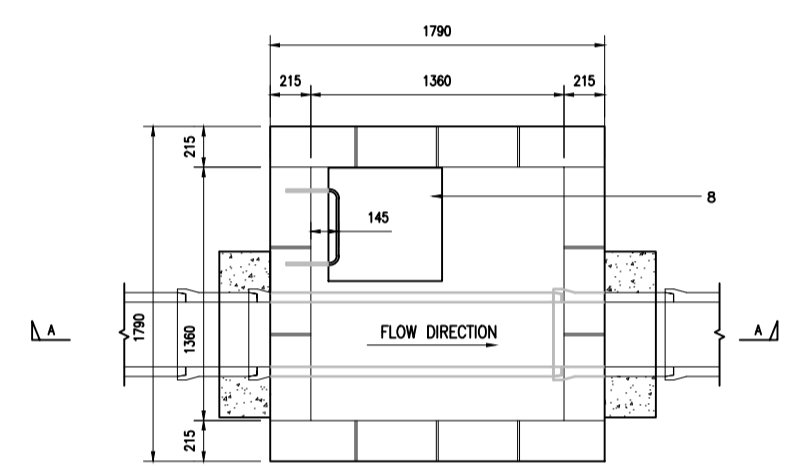
SECTION A-A

SECTION B-B



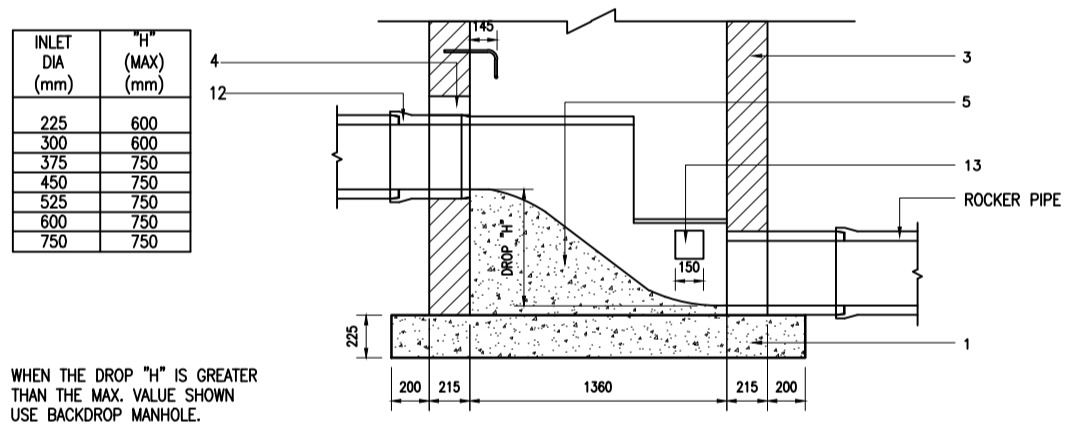
PLAN

TYPE A MANHOLE



PLAN

TYPE B MANHOLE

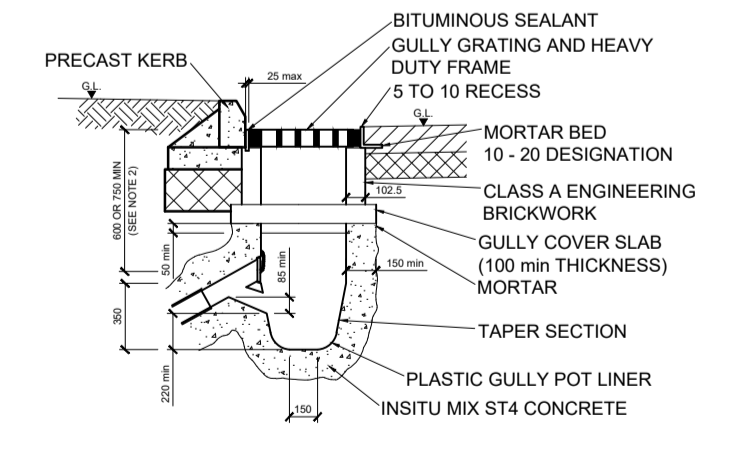


SECTION A-A

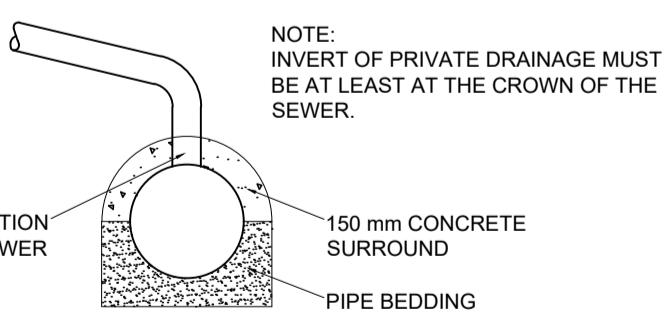
TYPE F MANHOLE (RAMP)

NOTES:

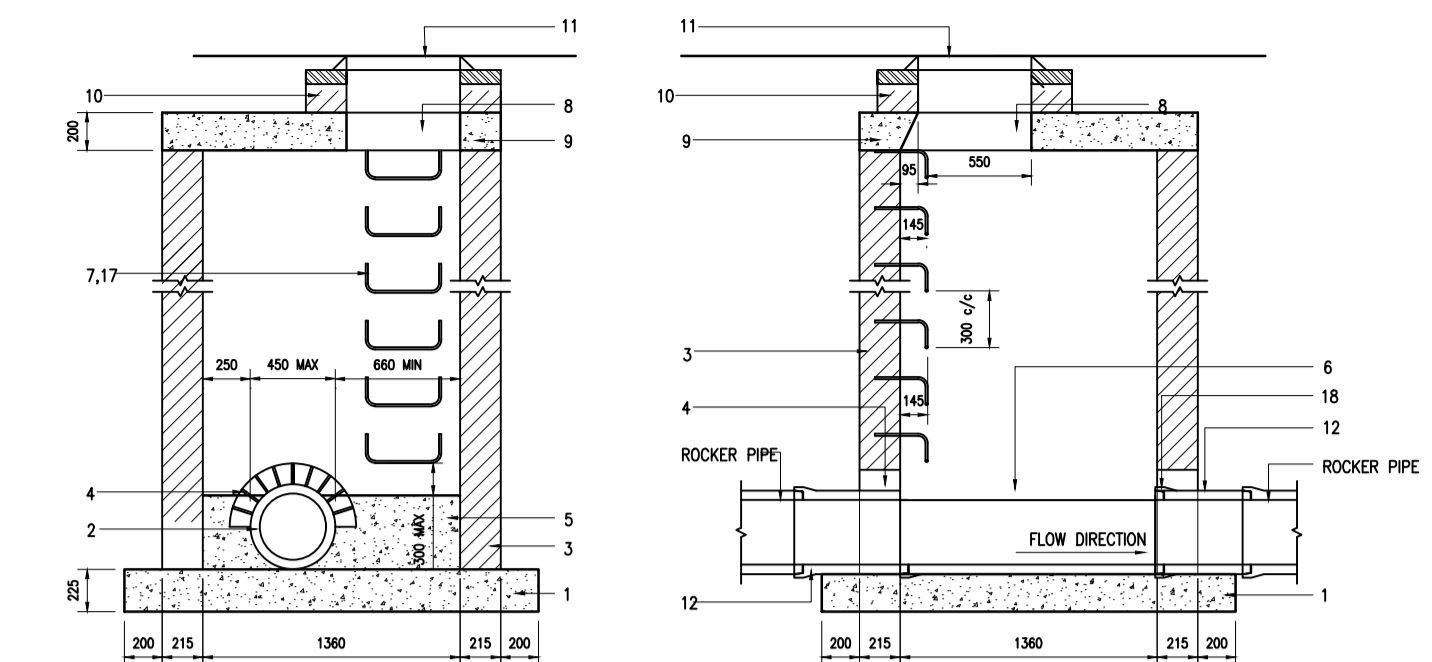
- ALL DIMENSIONS ARE IN MILLIMETERS.
- THE MINIMUM DEPTH FROM THE TOP OF THE GRATING TO THE TOP OF THE GULLY OUTLET IS TO BE 750mm WHEN THE CONNECTING PIPE IS UNDER A CARRIAGE WAY OR A HARD SHOULDER AND 600 ELSEWHERE.
- PRE CAST CONCRETE GULLIES AND COVER SLABS SHALL BE TO BS 5911-6.
- WHEN AN INSITU CAST GULLY HAS A TRAP, THE STOPPERS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5911-4 AND BS EN 1917.
- ALL ST CONCRETE SHALL BE TO SHW, CLAUSE 2602



TYPICAL PRECAST GULLY

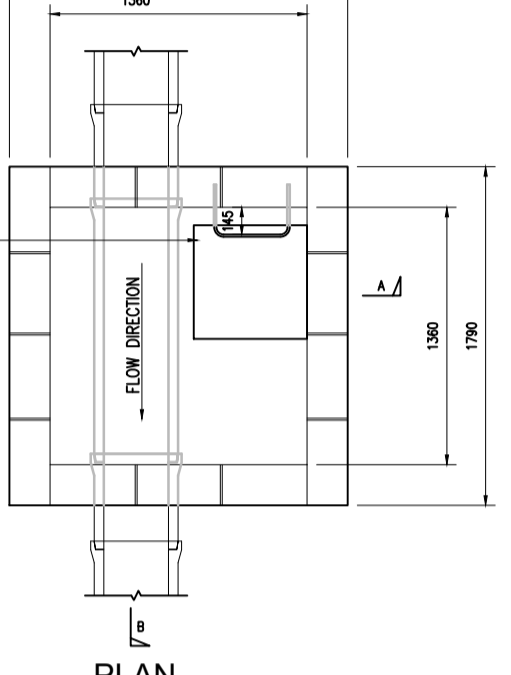


SADDLE CONNECTION



SECTION A-A

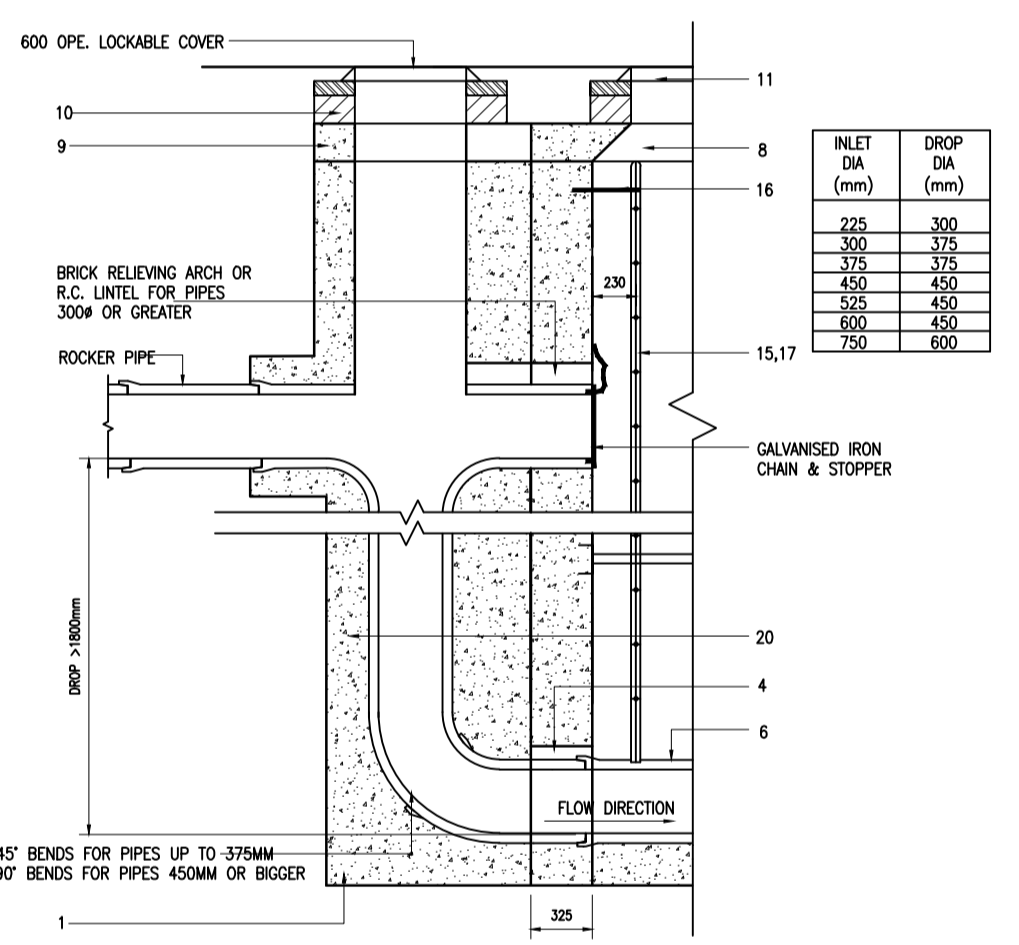
SECTION B-B



PLAN

TYPE C MANHOLE

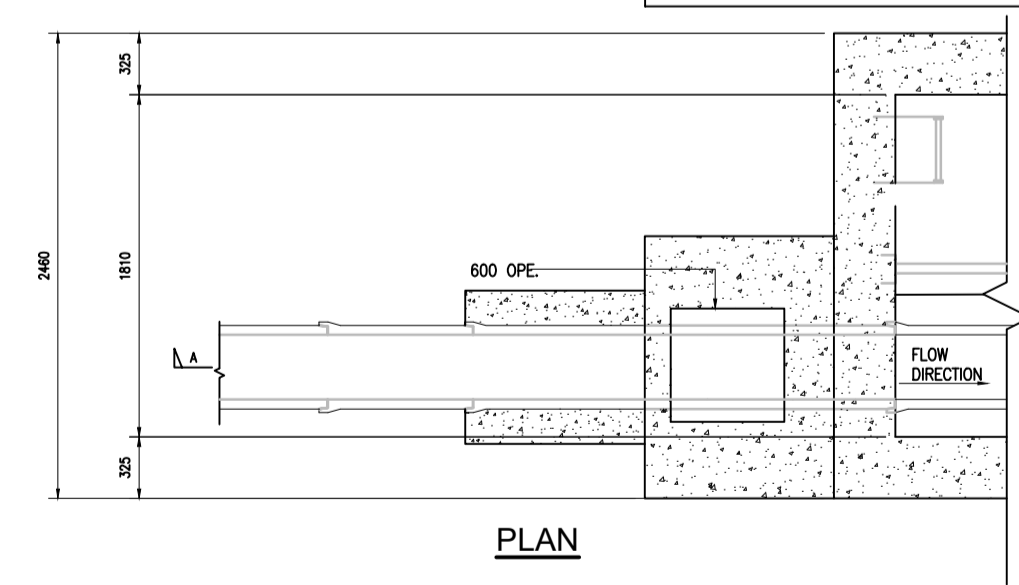
MANHOLE DETAILS FOR PIPE #'s 150, 225, 300, 375 & 450mm. DEPTH TO INVERT 1.0m TO 3.0m.



SECTION A-A

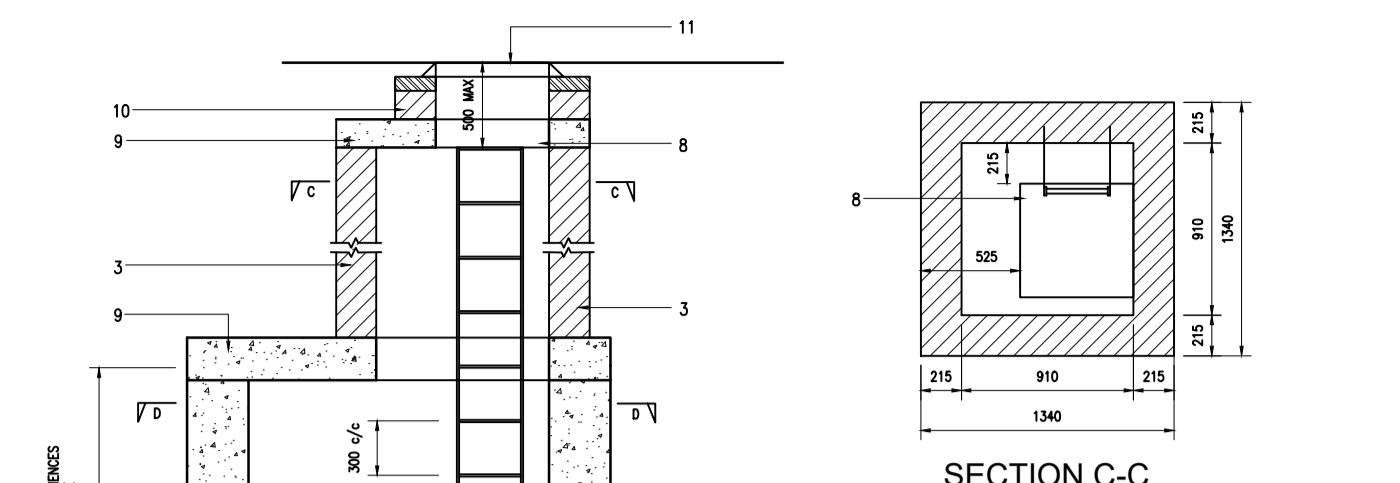
TYPE G MANHOLE (BACKDROP)

BACKDROP MANHOLE DETAILS FOR PIPE #'s 225, 300, 375, 450, 525, 600 & 750mm. DROP >750mm.

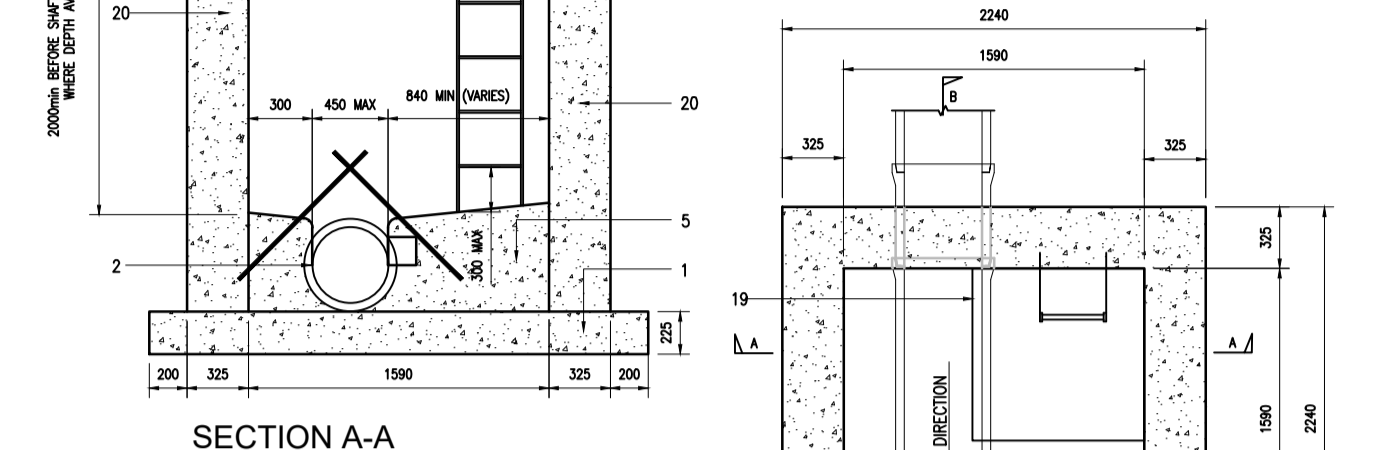


PLAN

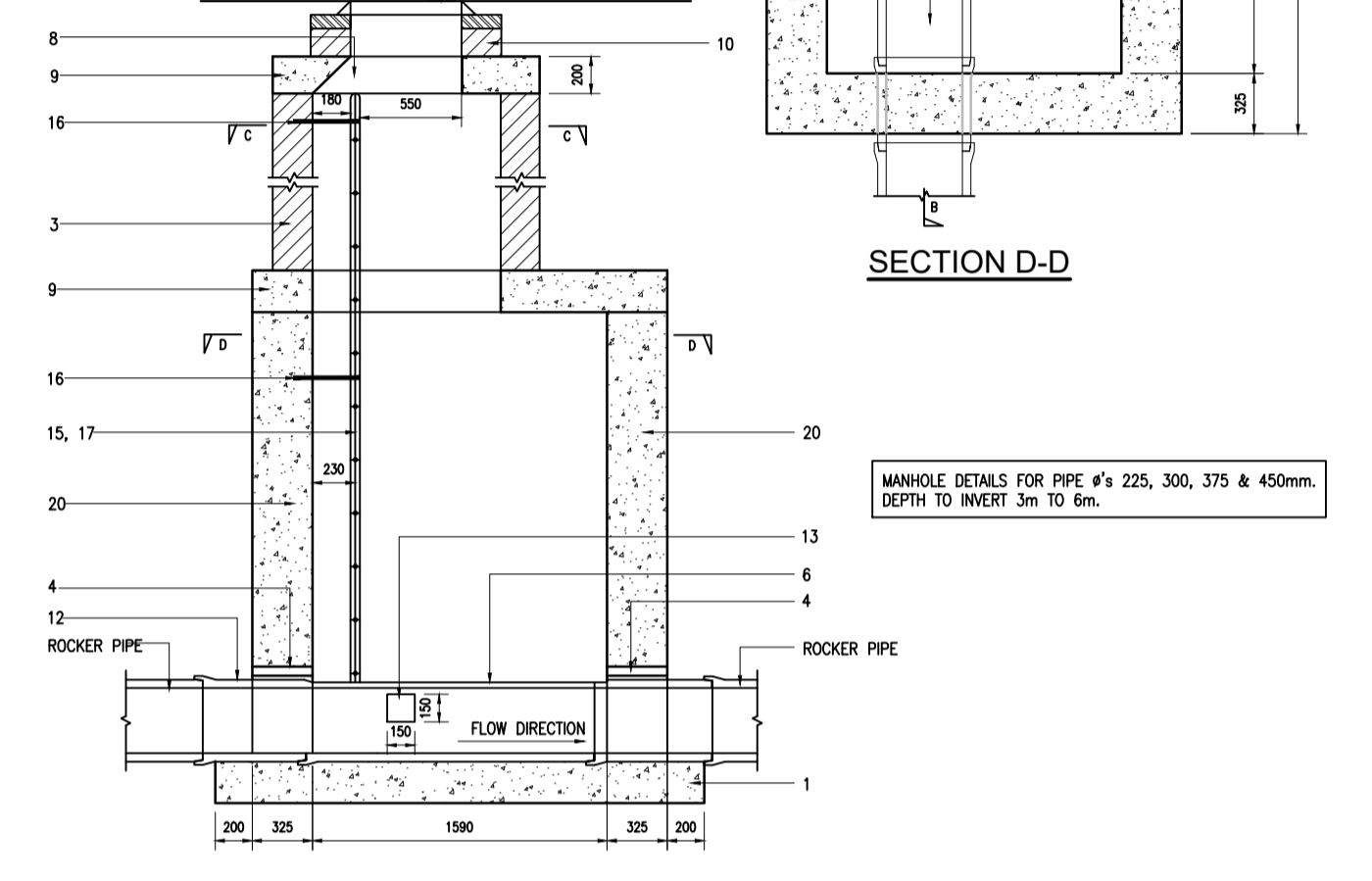
TYPE G MANHOLE (BACKDROP)



SECTION C-C



SECTION A-A

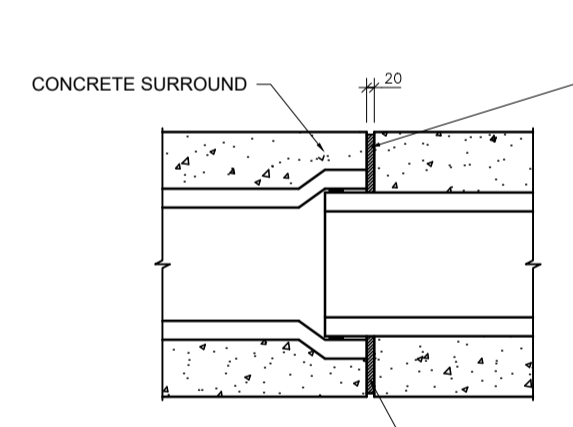


SECTION B-B

TYPE C MANHOLE

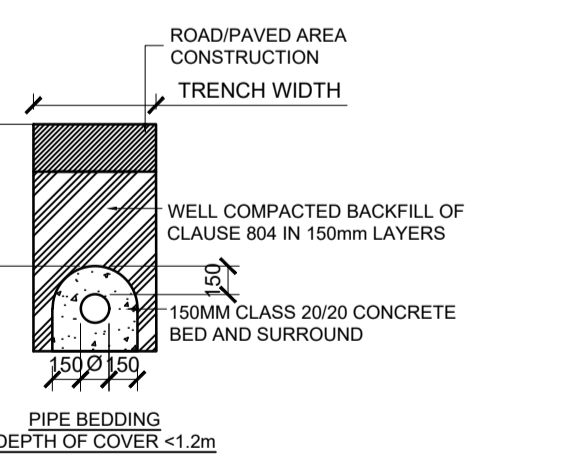
SECTION D-D

MANHOLE DETAILS FOR PIPE #'s 225, 300, 375 & 450mm. DEPTH TO INVERT 3m TO 6m.

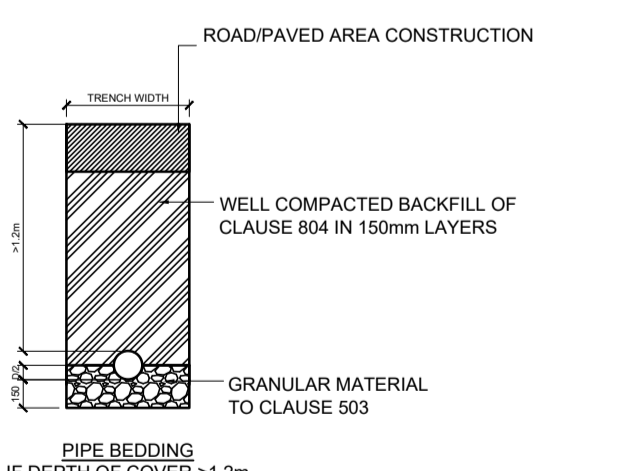


JOINT IN CONCRETE SURROUND

WHERE FLEXIBLY JOINTED PIPES ARE USED THE CONCRETE SURROUND SHALL HAVE A 20mm GAP FILLED WITH APPROVED COMPRESSIBLE MATERIAL. WHERE RIGID PIPES WITH FLEXIBLE JOINTS ARE USED WITH CONCRETE BEDS FOR DRAINS AND WATERMANS, VERTICAL MOVEMENT JOINTS SHALL BE PROVIDED IN THE BEDS AT MAX. INTERVALS OF 5.0m AND ALIGNED WITH FACE OF PIPE SOCKET. JOINTS TO BE 15mm WIDE AND FILLED WITH FLEXCELL OR SIMILAR IN THE CONCRETE BED AND SURROUND.



ROADPAVED AREA CONSTRUCTION TRENCH WIDTH



ROADPAVED AREA CONSTRUCTION TRENCH WIDTH

FOUL SEWER SURFACE WATER PIPE BEDDING DETAILS

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		No.	Revision	Date	By	Ch'd	App'd									
Drawing Title PROPOSED DRAINAGE TYPICAL DETAILS SHEET 01 OF 01																
Drawing Number MCAAS2W- ROD - HDG - TO15_AE - DE - CH - 300501	Project Originator Volume Location Type Role Number MCAAS2W- ROD - HDG - TO15_AE - DE - CH - 300501	Drawn: LA Designed: CL Checked: EW Approved: EW Status: A1 - Approved/Accepted	Scale (A1) Date: JULY 2023 Job No: 21.114 Rev: P01													

WATERMAIN NOTES

- W1 ALL INTERNAL AND EXTERNAL PLUMBING SHALL COMPLY WITH CURRENT REGULATIONS AND THE LOCAL AUTHORITY WATER BYE-LAWS AND REQUIREMENTS.
THE CONSTRUCTION OF THE WATERMAIN SHALL BE IN ACCORDANCE WITH THE BEST CURRENT PRACTICE AND THE LATEST EDITIONS OF THE RELEVANT STANDARDS AND CODE OF PRACTICE.
- W2 APPLICATIONS FOR WATERMAINS CONNECTIONS MUST BE MADE AT LEAST 1 MONTH IN ADVANCE OF COMMENCEMENT OF WORKS ON SITE. THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER AREA ENGINEER ONE WEEK PRIOR TO THE DATE ON WHICH IT IS PROPOSED TO COMMENCE WORK.
- W3 ALL PIPES SHALL HAVE A MINIMUM DEPTH OF COVER OF 750MM AND MAXIMUM DEPTH OF 900MM MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED GROUND SURFACE.
- W4 NO OTHER SERVICE IS TO BE LOCATED ABOVE OR WITHIN 500MM OF ANY WATERMAINS, UNLESS IT IS CROSSING OVER THE WATERMAIN AT RIGHT ANGLES, WHERE THERE MUST BE A MINIMUM OF 250MM VERTICAL CLEARANCE.
- W5 ONLY DI PIPES ARE TO BE USED WHERE A WATERMAIN CROSSES A PUBLIC ROAD, EXCEPT WHERE OTHERWISE AGREED.
- W6 NO PROPERTY SHALL BE MORE THAN 45M FROM A HYDRANT.
- W7 CONCRETE ANCHOR BLOCKS SHALL BE PROVIDED ON WATERMAINS AT DEAD ENDS, TEES, BENDS AND AT BOTH SIDES OF A SLUICE VALVE CHAMBER. ANCHOR BLOCKS SHALL BE GRADE 30N20 CONCRETE. BLOCKS SHALL BE TAKEN 150MM BELOW THE PIPE INVERT FOR THE FULL WIDTH OF TRENCH AND SHALL ENCASE THE PIPES TO 150MM OVER THE TOP OF THE BARREL.
THE MIN. LENGTH OF ANCHOR BLOCK SHALL BE 600MM FOR PIPES UP TO 150MM. FOR PIPES GREATER THAN 150MM Ø THE MINIMUM LENGTH SHALL BE TAKEN AS 900MM.
- W8 THE PREFERRED WATERMAIN PIPE MATERIAL IS INDICATED ON THE FOLLOWING TABLE

SIZE OF PIPE (MM)	TYPE OF PIPE
100 TO 150M	MOPVC, PVC/A, PE, DI
150 - 300M	MOPVC, DI, PE
> 300	DI

ALL PLASTIC WATER PIPES SHALL BE BLUE IN COLOUR.
UPVC PIPES ARE NO LONGER ACCEPTED.
MOPVC PIPES SHALL CONFORM TO THE U.K. WRAC OR AN ALTERNATIVE LOCAL AUTHORITY APPROVED LIST.
DUCTILE IRON PIPES SHALL CONFORM TO CLASS K9 OF EN 545. DUCTILE IRON FITTINGS SHALL BE EITHER K9 OR K12. DUCTILE IRON PIPES AND FITTINGS SHALL BE LINED WITH A MATERIAL THAT IS APPROVED FOR CONTACT WITH DRINKING WATER.
PVC ALLOY PRESSURE PIPE SHALL CONFORM TO BS PAS 27. ALL FITTINGS SHOULD CONFORM TO THIS STANDARD ALSO.
PE PIPES SHALL CONFORM TO BS 672 AND WATER INDUSTRIES SPECIFICATION 4.32.03 TO 4.32.05 (INCLUSIVE) AND 4.32.13.
- W9 SERVICE PIPES & FITTINGS MATERIALS

MDPE PIPE AND FITTINGS. MDPE PIPE AND FITTINGS SHOULD BE OF TYPE PE-80 AND HAVE AN SDR RATING OF 11. THE PIPE SHOULD TO THE UK WATER INDUSTRY SPECIFICATION NO. 4-32-02 AND/OR BS 6972 FOR PIPE SIZES UP TO 63MM OD AND NO. 4-32-04 FOR FUSION JOINTS AND FITTINGS.
COPPER ALLOY FITTINGS SHALL BE APPROVED GUNMETAL AND CONFORM TO BS 2872 OR BS 2874. (MATERIAL C2132 RESISTANT TO DE-ZINCIFICATION)
- W10 ALL SERVICE PIPES SHALL INCLUDE THE INSTALLATION OF A BOUNDARY BOX WITH INTEGRAL STOPCOCK (NOTE THAT THE USE OF THE TRADITIONAL STOPCOCK HAS BEEN DISCONTINUED). THE BOUNDARY BOX COMPRISES OF A CONCENTRIC METER BOX WITH TELESCOPIC BODY AND CIRCULAR PLASTIC LID COMPLETE WITH SHUT-OFF VALVE, NON-RETURN VALVE AND PUSH-FITS OUTLETS (EXCLUDE METER IF DOMESTIC SUPPLY, METER REQUIRED FOR COMMERCIALS OPERATION). THE MINIMUM DEPTH FROM LID TO METER BASE PLATE IS 250MM AND THE LID STRUCTURE IS TO MATCH ITS REQUIRED LOADING. N.B. ALL METERS MUST BE COMPATIBLE WITH THE NON DOMESTIC WATER METERING SYSTEM.
- W11 ALL PROPERTIES MUST HAVE 24HOUR WATER STORAGE.
- W12 SLUICE VALVES SHALL BE DOUBLE FLANGED; DUCTILE IRON RESILIENT SEAL GATE VALVES FOR WATERMAIN PURPOSES AND SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF EN1074. THE NUMBER OF TURNS TO OPEN/CLOSE THE VALVE MUST BE $N=2n + 1$ WHERE N = THE EQUIVALENT DIAMETER IN INCHES. ALL FLANGES SHALL BE DRILLED TO P.N. 16. THE SPINDLE SHALL BE FITTED WITH A CAST IRON OVAL FALSE CAP (COMPLETE WITH GRUB SCREW). DEPTH FROM GROUND LEVEL TO THE TOP OF THE VALVE SPINDLE MUST NOT BE GREATER THAN 600MM. THE OPERATING TORQUE SHOULD NOT EXCEED THE MAXIMUM ALLOWED IN EN 1074, WITH WRITTEN TEST RESULTS REQUIRED.
SLUICE VALVES SHALL BE COATED WITH AN ELECTROSTATIC EPOXY POWDER SPRAY, OR BITUMEN - TRICHLOROETHYLENE SOLUTION TO U.K. WRAC OR AN ALTERNATIVE LOCAL AUTHORITY APPROVED COATING.
W13 BUTTERFLY VALVES SHALL BE DOUBLE FLANGED AND SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF EN1074. MANUALLY OPERATED BUTTERFLY VALVES ARE TO BE OPERATED FROM ABOVE GROUND WITH A LOCAL AUTHORITY VALVE KEY AND THE OPERATING TORQUE SHOULD NOT EXCEED THE MAXIMUM ALLOWED IN EN 1074. ALL FLANGES SHALL BE DRILLED TO P.N. 16.
BUTTERFLY VALVES SHALL BE COATED WITH AN ELECTROSTATIC EPOXY POWDER SPRAY, OR BITUMEN - TRICHLOROETHYLENE SOLUTION TO U.K. WRAC OR AN ALTERNATIVE LOCAL AUTHORITY APPROVED COATING.
ALL BUTTERFLY VALVES OPERATED BY A VALVE KEY SHALL BE ANTI-CLOCKWISE CLOSING.
ACTUATED BUTTERFLY VALVES WILL REQUIRE MANUAL OVER-RIDE FACILITY AND THE ACTUATOR SHALL BE IP RATED TO SUIT ITS LOCATION.

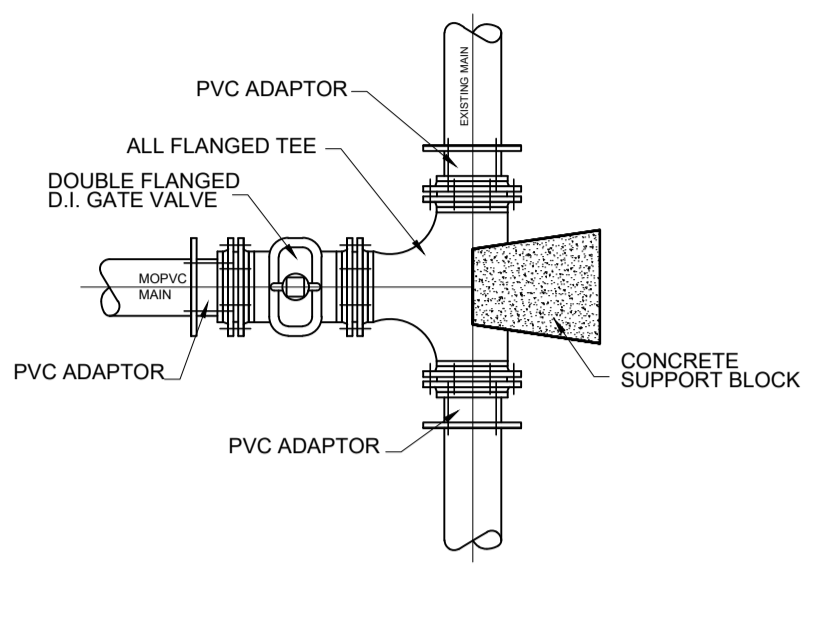
WATERMAIN NOTES CONT.

- W14 HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 759: 1984, TYPE 2 AND SHALL INCORPORATE A SCREW-DOWN VALVE, UNDERGROUND, "GUIDE IN HEAD" TYPE, WITH BAYONET LUG OUTLETS AND FALSE SPINDLE. THE HYDRANT VALVE SHALL BE CLOCKWISE CLOSING I.E. THE OPPOSITE OF A SLUICE VALVE.
HYDRANTS SHALL BE COATED WITH AN ELECTROSTATIC EPOXY POWDER SPRAY, OR BITUMEN - TRICHLOROETHYLENE SOLUTION TO U.K. WRAC OR AN ALTERNATIVE LOCAL AUTHORITY APPROVED COATING.
HYDRANTS (WHICH ARE PROVIDED FOR EMERGENCY SUPPLY) MAY NOT BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF LOCAL AUTHORITY.
- W15 AIR VALVES MUST COMPLY WITH THE REQUIREMENTS OF BS5159 AND ARE TO BE LOCATED AT SUMMITS OF WATERMAINS OR BESIDE TRUNK WATERMAIN BODY VALVES. LOCAL AUTHORITY REQUIRE THAT ALL AIRVALVES ARE DOUBLE ORIFICE TYPE AND INCLUDE AN ISOLATOR VALVE (TO ALLOW EASE OF REMOVAL WITHOUT DRAINING THE WATERMAIN), ANY OTHER TYPE OF AIRVALVE IS SUBJECT TO THE APPROVAL OF LOCAL AUTHORITY PRIOR TO CONSTRUCTION.
- W16 VALVES AND HYDRANTS WHEN INSTALLED SHALL BE COVERED WITH APPROVED HEAVY-DUTY METAL SURFACE COVERS TO IS EN 124: 1994.
- W17 HYDRANT INDICATOR PLATES AND BASEBOARDS SHALL COMPLY WITH B.S. 3251 WHILE SLUICE VALVE INDICATOR PLATES AND BASEBOARDS SHALL COMPLY WITH THE LOCAL AUTHORITY REQUIREMENTS. THEY SHALL BE MOUNTED AT THE BOUNDARY OF THE PUBLIC THOROUGHFARE NEAREST TO THE HYDRANT OR VALVE.
- W18 ALL PIPEWORK SHALL HAVE A 400MM WIDE WATER WARNING MESH - PLYAGE HR 400 BLUE POLYETHYLENE WARNING MESH OR SIMILAR - LAID DIRECTLY OVER THE CENTRELINE OF THE PIPELINE AND TIED TO VALVES, AT A DEPTH OF 350MM BELOW THE FINISHED GROUND SURFACE. SUPPLY PIPES SHALL HAVE A MESH 200MM WIDE LAID AT THE SAME DEPTH.
- W19 ALL PIPES SHALL BE EXAMINED INTERNALLY FOR DIRT, STONES, OR ANY FOREIGN MATTER AND SHALL BE THOROUGHLY CLEANED BEFORE LAYING IN FINAL POSITION TO PREVENT FOREIGN MATTER OR VERMIN ENTERING THE MAIN AS IT IS BEING LAID. ALL OPEN ENDS OF LAID PIPES SHALL BE PLUGGED UNTIL THE NEXT PIPE IS READY FOR INSERTION.
- W20 ALL PIPES SHALL BE LAID ON A 150MM BED OF ROUNDED SINGLE SIZED PEBBLE OF 10MM NOMINAL DIAMETER AND HAUNCHED AND COVERED TO A DEPTH OF 150MM WITH SIMILAR MATERIAL. PIPES SHALL NOT BE SUPPORTED BY STONE OR ROCK AT ANY POINT. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150MM BELOW THE ACTUAL DEPTH OF TRENCH REQUIRED AND BACKFILLED WITH DOE CLAUSE 805 PRIOR TO LAYING THE PEBBLE BED. IN GROUND THAT CONTAINS ASHES OR CHEMICALS OR MATERIAL THAT COULD ACCELERATE CORROSION OR DETERIORATION OF THE PIPE, THE MATERIAL TO BE USED AND METHOD OF LAYING SHALL BE AGREED IN WRITING WITH THE LOCAL AUTHORITY WATER SERVICES DEPARTMENT PRIOR TO LAYING.
- W21 ALL TRENCHES IN OR NEAR ROADWAYS SHALL BE BACKFILLED AND REINSTATED IN ACCORDANCE WITH THE TRANSPORTATION DEPARTMENT REQUIREMENTS.
- W22 AFTER THE PIPES HAVE BEEN LAID AND JOINTED, THE MAIN SHALL BE TESTED AS OUTLINED BELOW.

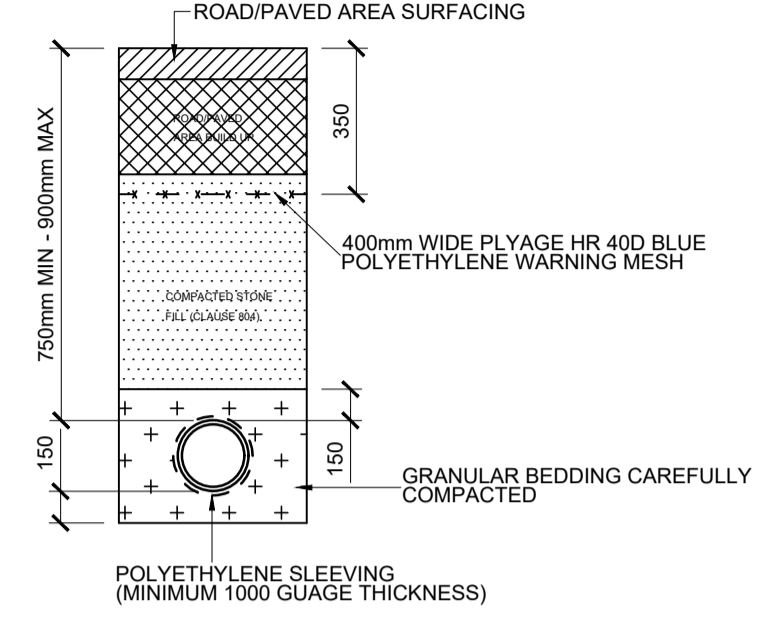
PRESSURE TEST
THE CONTRACTOR IS RESPONSIBLE FOR TESTING THE WATERMAIN. THE WATERMAIN SHALL BE SUBJECTED TO 10 BAR OR 1 & 1/2 TIMES ITS NORMAL WORKING PRESSURE, WHICHEVER IS THE GREATER PRESSURE, FOR 1 HOUR IN THE PRESENCE OF A REPRESENTATIVE OF LOCAL AUTHORITY. TESTING SHALL BE CARRIED OUT BETWEEN SUITABLY SUPPORTED BLANK END PIECES. TESTING BETWEEN 'LIVE' SHUT VALVES WILL NOT BE ACCEPTED. WATERMAINS ARE TO BE TESTED PRIOR TO ANY SERVICE PIPE TAPPINGS INSTALLED ON THE WATERMAIN (OTHER THAN THOSE REQUIRED FOR FILLING THE WATERMAIN).

CHLORINATION TEST
ALL MAINS SHALL BE SWABBED AND DISINFECTED BEFORE BEING PUT IN TO SUPPLY. THE PIPELINES SHALL BE DISINFECTED WITH WATER HAVING A MINIMUM CONCENTRATION OF 20MG/L OF FREE CHLORINE. THE WATER SERVICES DEPARTMENT WILL CARRY THIS OUT WITH THE ASSISTANCE OF THE CONTRACTOR.
THE CHLORINATED WATER SHALL BE LEFT IN THE MAIN FOR A PERIOD OF AT LEAST 24 HOURS. CHLORINE RESIDUAL TESTS SHALL BE TAKEN AT THE END OF THE MAIN FURTHEST FROM THE POINT OF INJECTION. THE STERILISATION PROCESS SHALL BE REPEATED IF THE CHLORINE RESIDUAL IS LESS THAN 10MG/L.
ALL CHLORINATED WATER MUST BE DISPOSED OFF IN SUCH A MANNER AS NOT TO POSE A POLLUTION RISK.

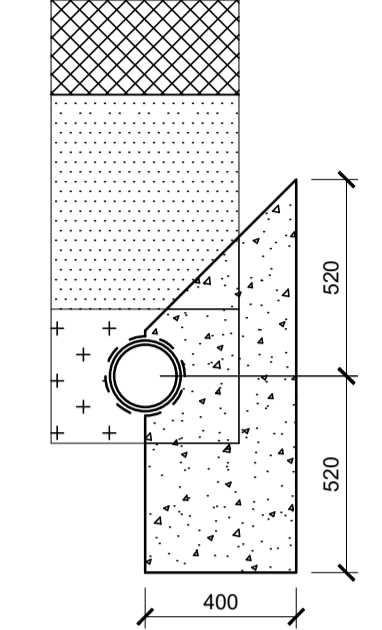
BACTERIOLOGICAL TEST
THE MAIN SHALL THEN BE REFILLED AND THE CONTRACTOR WILL ORGANISE A SAMPLE OF THE WATER TO BE TAKEN FOR BACTERIOLOGICAL ANALYSIS. GREAT CARE SHALL BE TAKEN WHEN OBTAINING SAMPLES FOR TESTING AND ONLY STERILE CONTAINERS SHALL BE USED. THIS SAMPLING SHALL BE CARRIED OUT IN THE PRESENCE OF THE WATER INSPECTOR. SAMPLES SHALL BE TESTED WITHIN 6 HOURS OF COLLECTION. WATER SAMPLES MAY BE TESTED IN ANY APPROVED OR ACCREDITED LABORATORY.



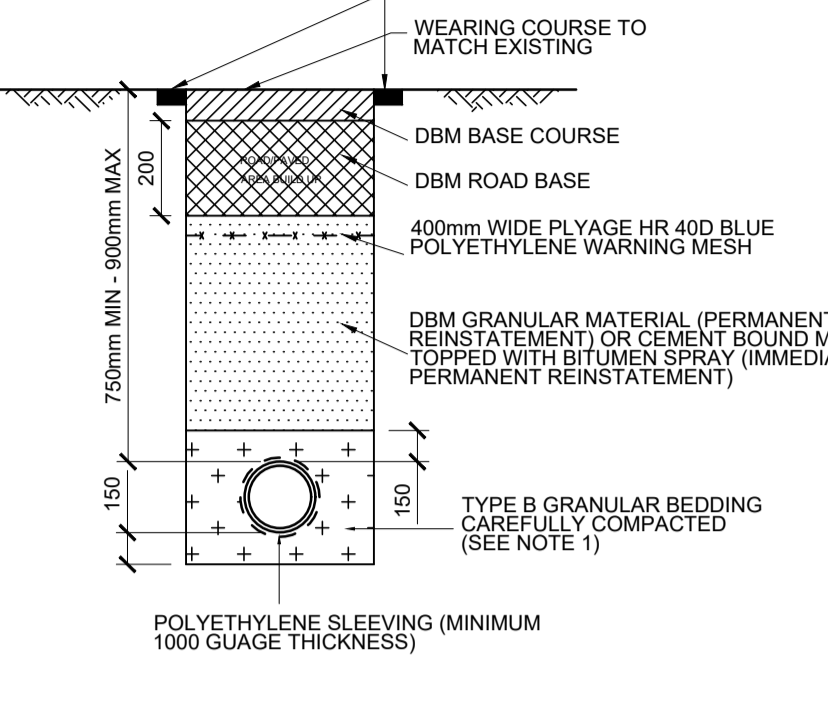
BRANCH CONNECTION OFF EX. MAIN



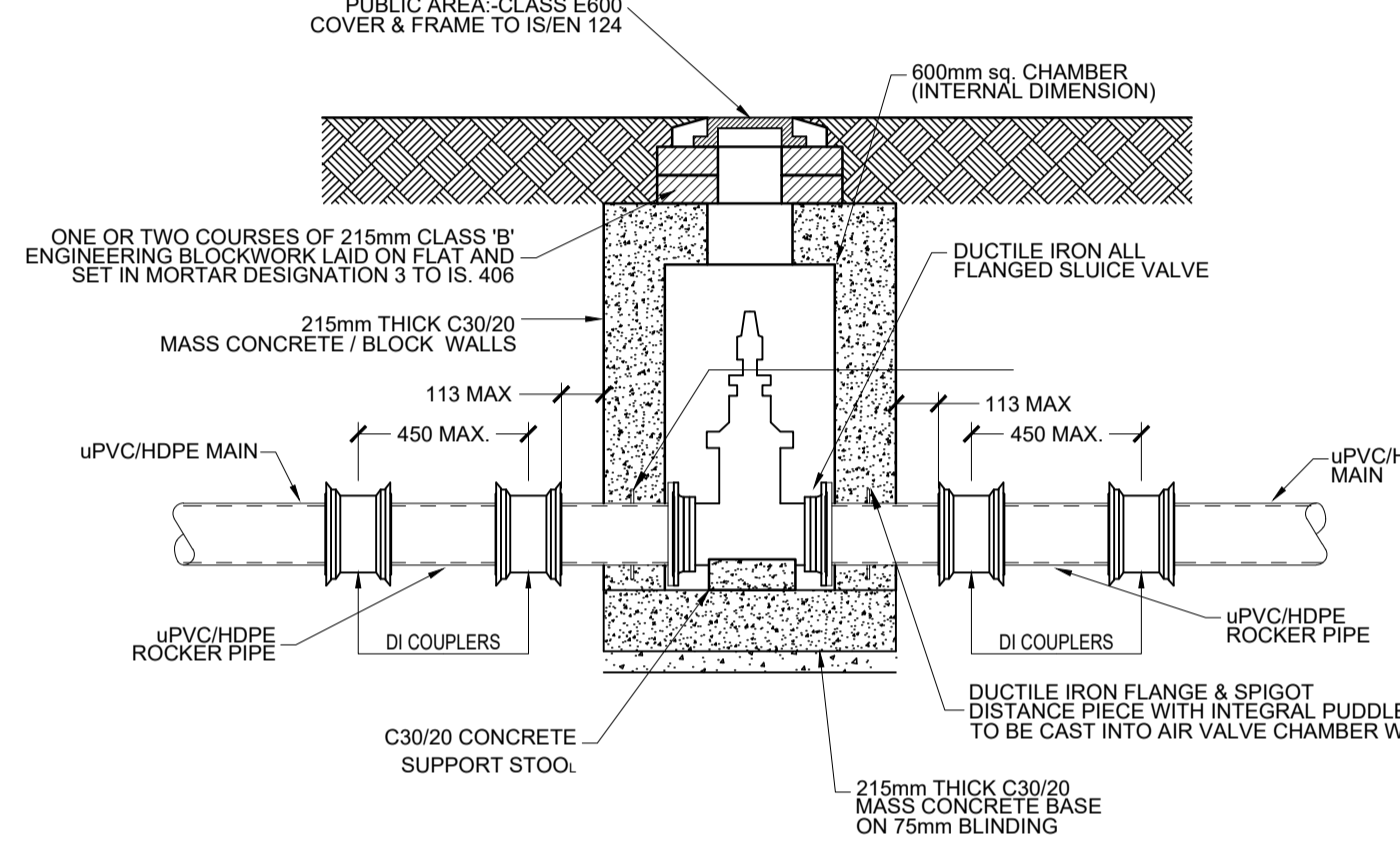
WATERMAINS BEDDING DETAILS



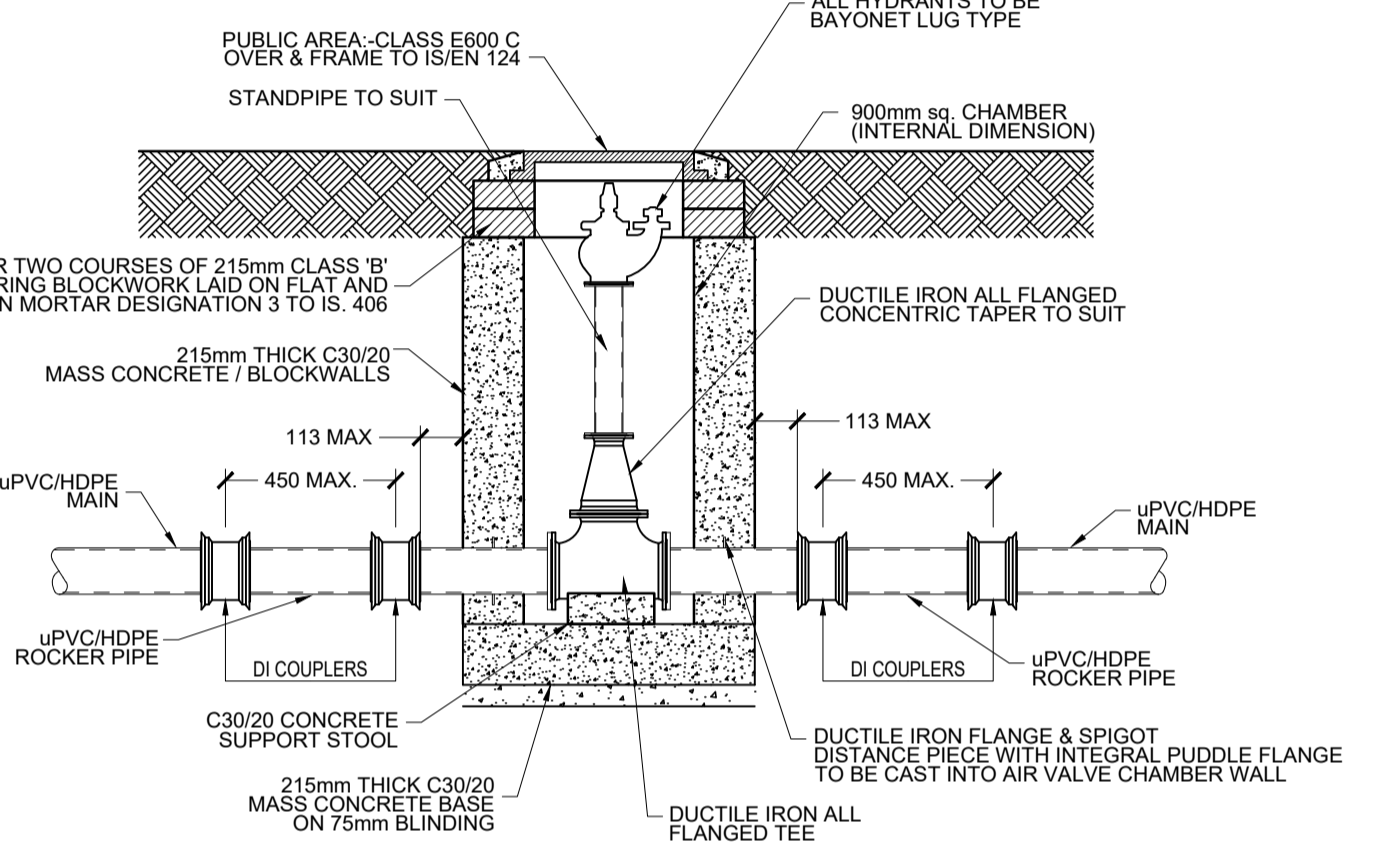
ANCHOR BLOCK SECTION



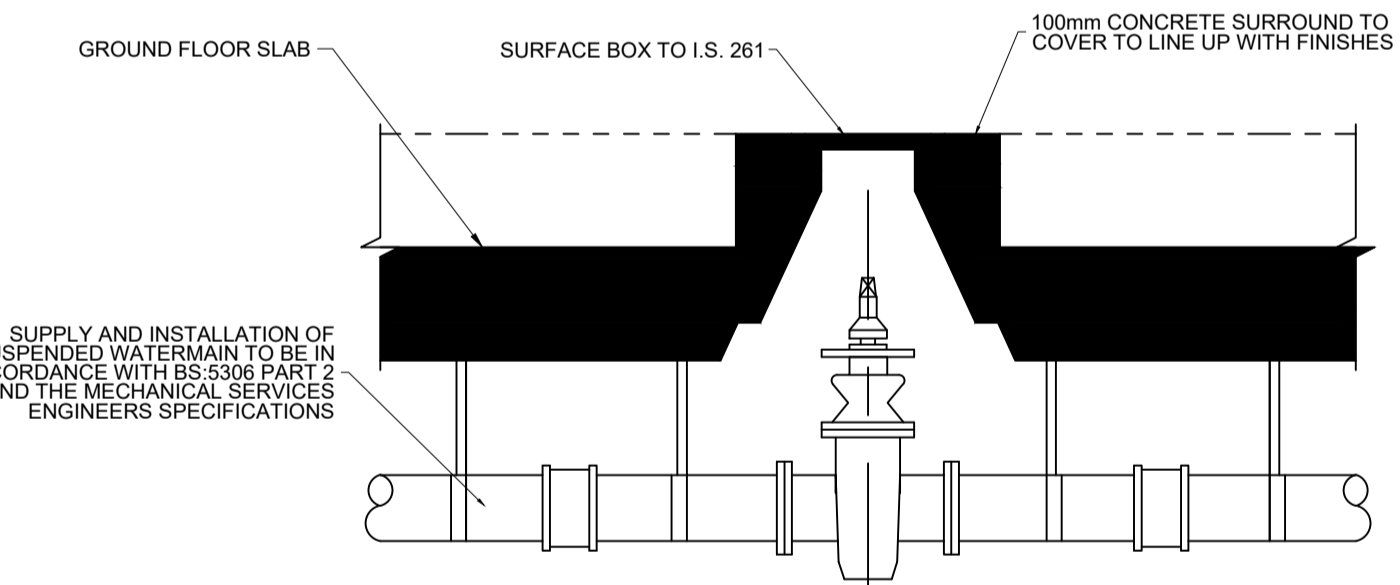
TYPICAL TRENCH REINSTATEMENT DETAIL



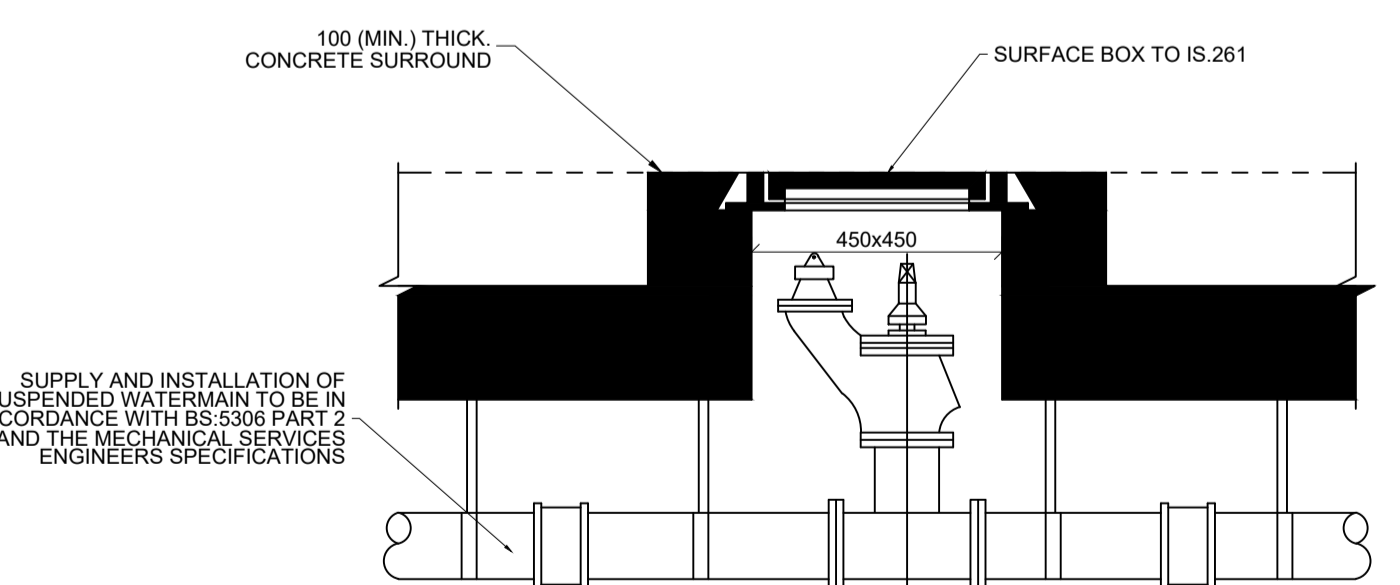
IN-LINE SLUICE VALVE



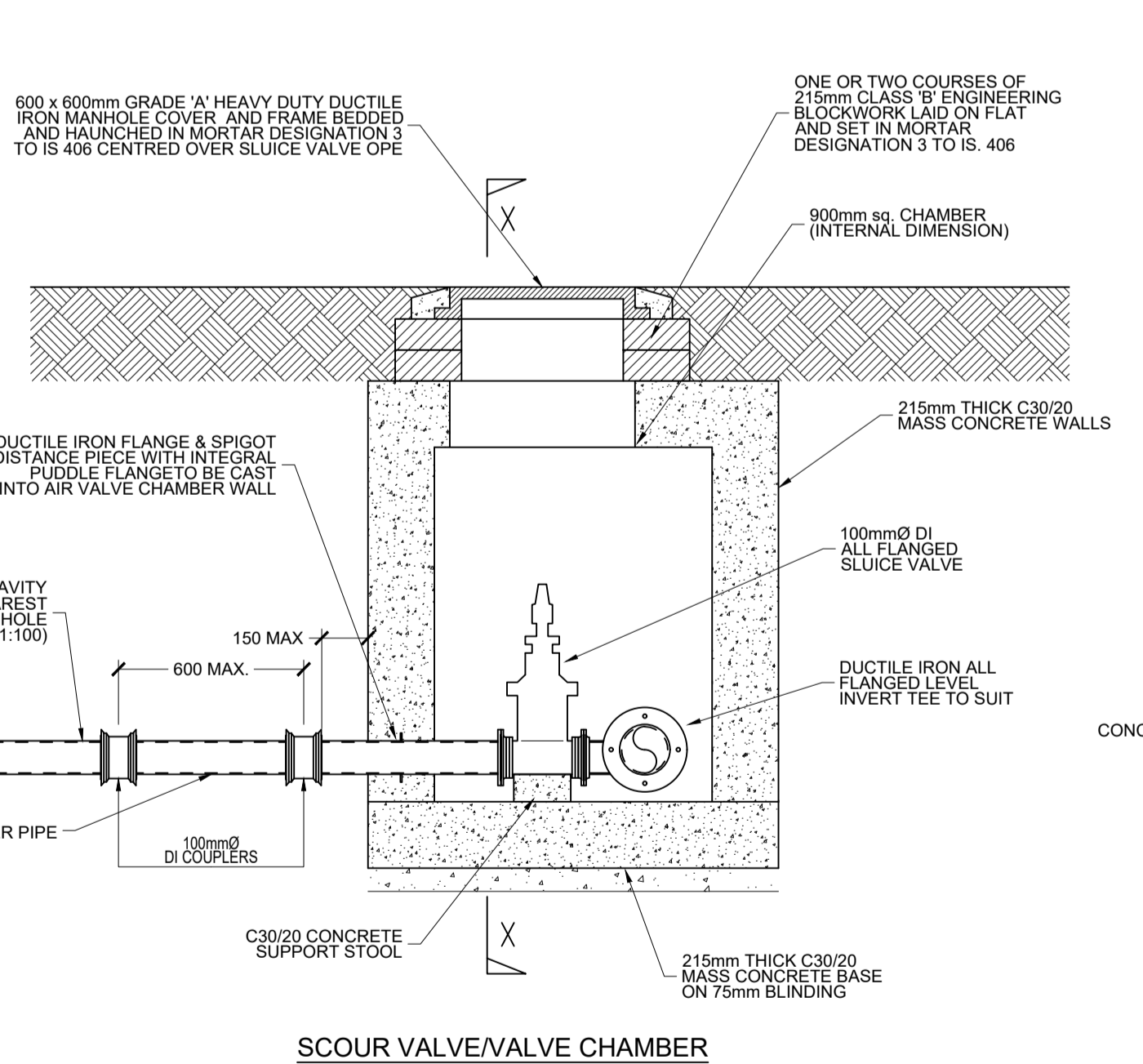
IN-LINE HYDRANT MAIN



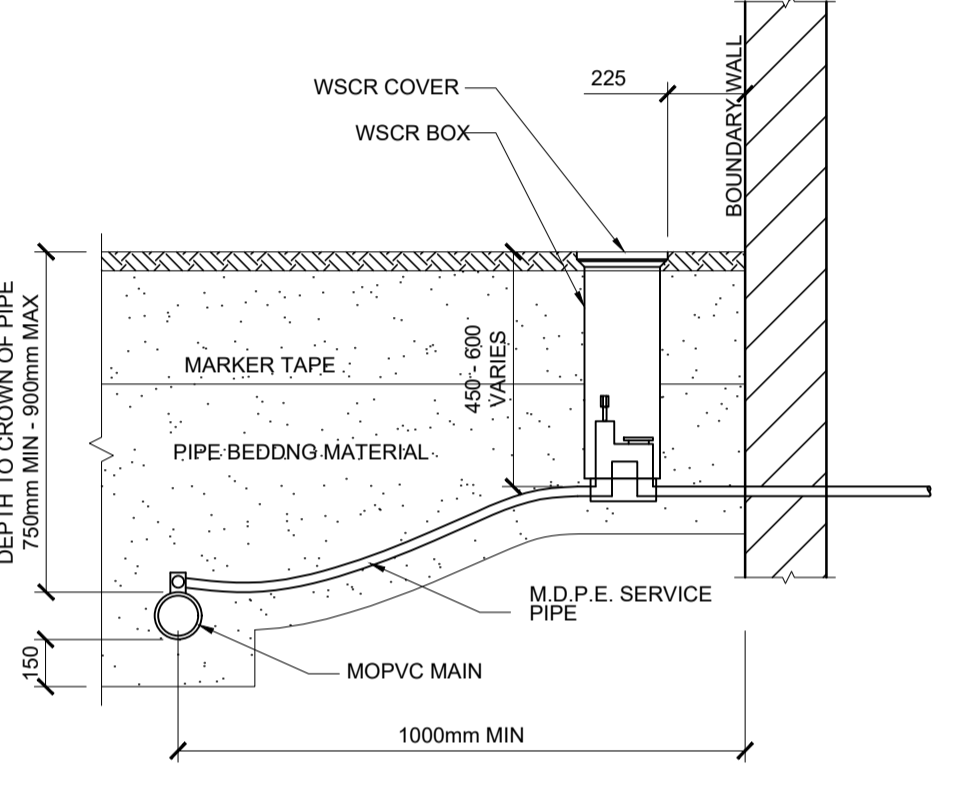
SUSPENDED SLUICE VALVE DETAIL



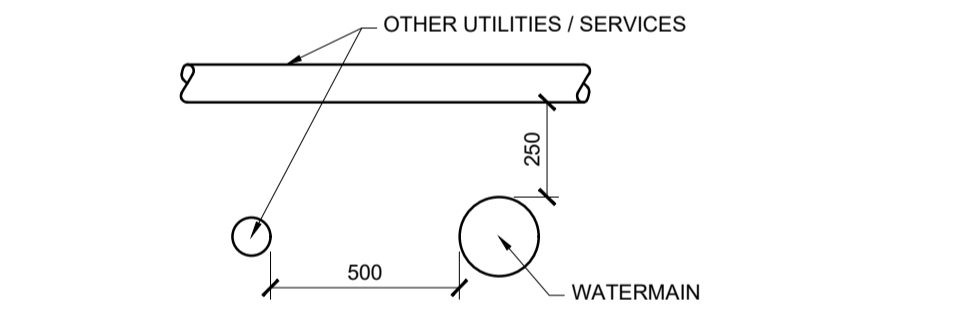
SUSPENDED HYDRANT DETAIL



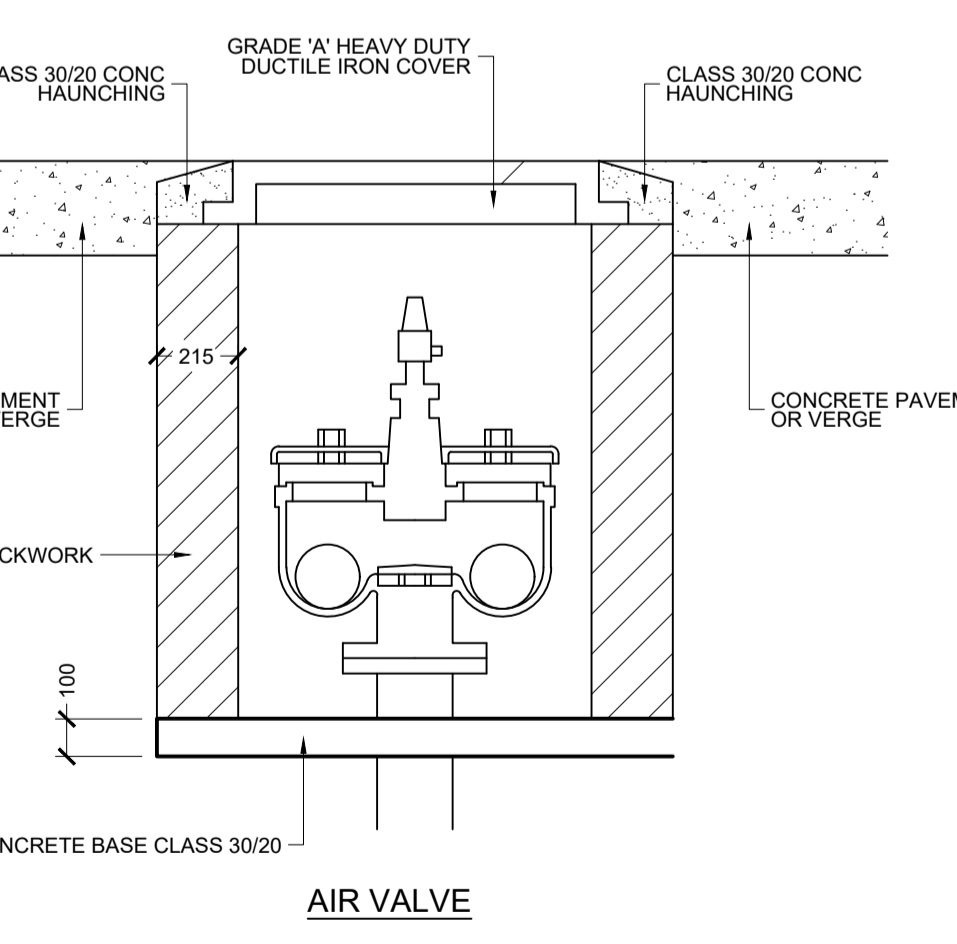
SCOUR VALVE/VALVE CHAMBER



COMMERCIAL SUPPLY PIPE AND BOUNDARY BOX FROM MOPVC MAIN



MINIMUM PIPE CLEARANCES



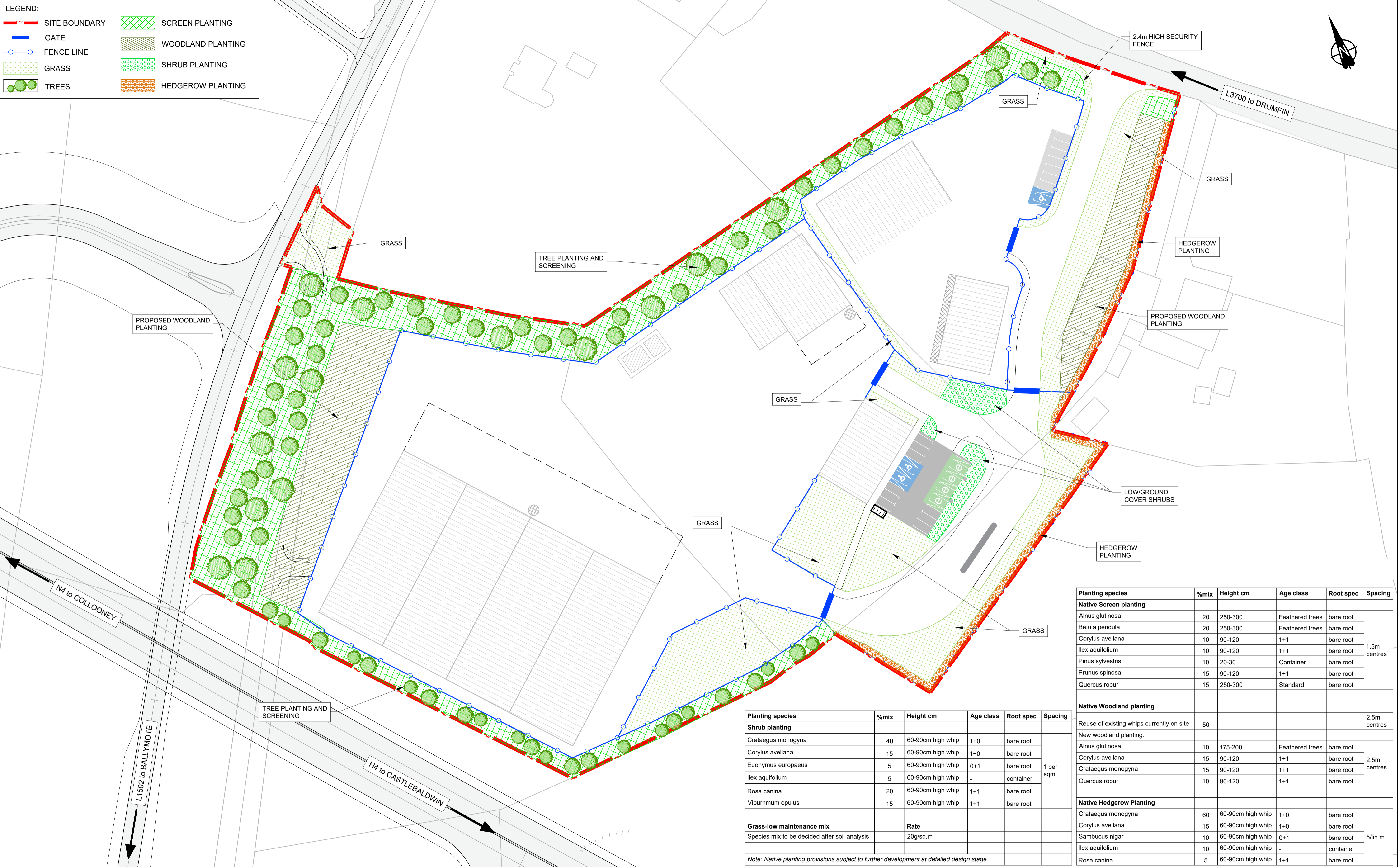
AIR VALVE

	<p>Sligo County Council Comhairle Chontae Shligigh</p>	<p>Sligo.</p>	<p>ROD ROUGHAN & O'DONOVAN Consulting Engineers Civil - Structural - Transportation - Environmental</p>	<p>Arena House, Arena Road, Sandyford, Dublin 18, Ireland t +353 (0) 1 294 0800 f +353 (0) 1 294 0820 www.rod.ie</p>	<p>STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN</p>
	<p>PROPOSED WATERMAIN TYPICAL DETAILS SHEET 01 OF 01</p>				
<p>Project Title</p>	<p>Project Originator Volume Location Type Role Number</p>				
<p>Drawing Title</p>	<p>MCAAS2W- ROD - HDG - TO15_AE - DE - CH - 300502</p>				
<p>Drawing Number</p>	<p>Scale (A1)</p>	<p>Date</p>	<p>Job No</p>	<p>Rev</p>	<p>Number</p>
<p>1:500</p>	<p>JULY 2023</p>	<p>21,114</p>	<p>P01</p>	<p>1:500</p>	<p>1:500</p>

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

LEGEND:

	SITE BOUNDARY		SCREEN PLANTING
	GATE		WOODLAND PLANTING
	FENCE LINE		SHRUB PLANTING
	GRASS		HEDGEROW PLANTING
	TREES		

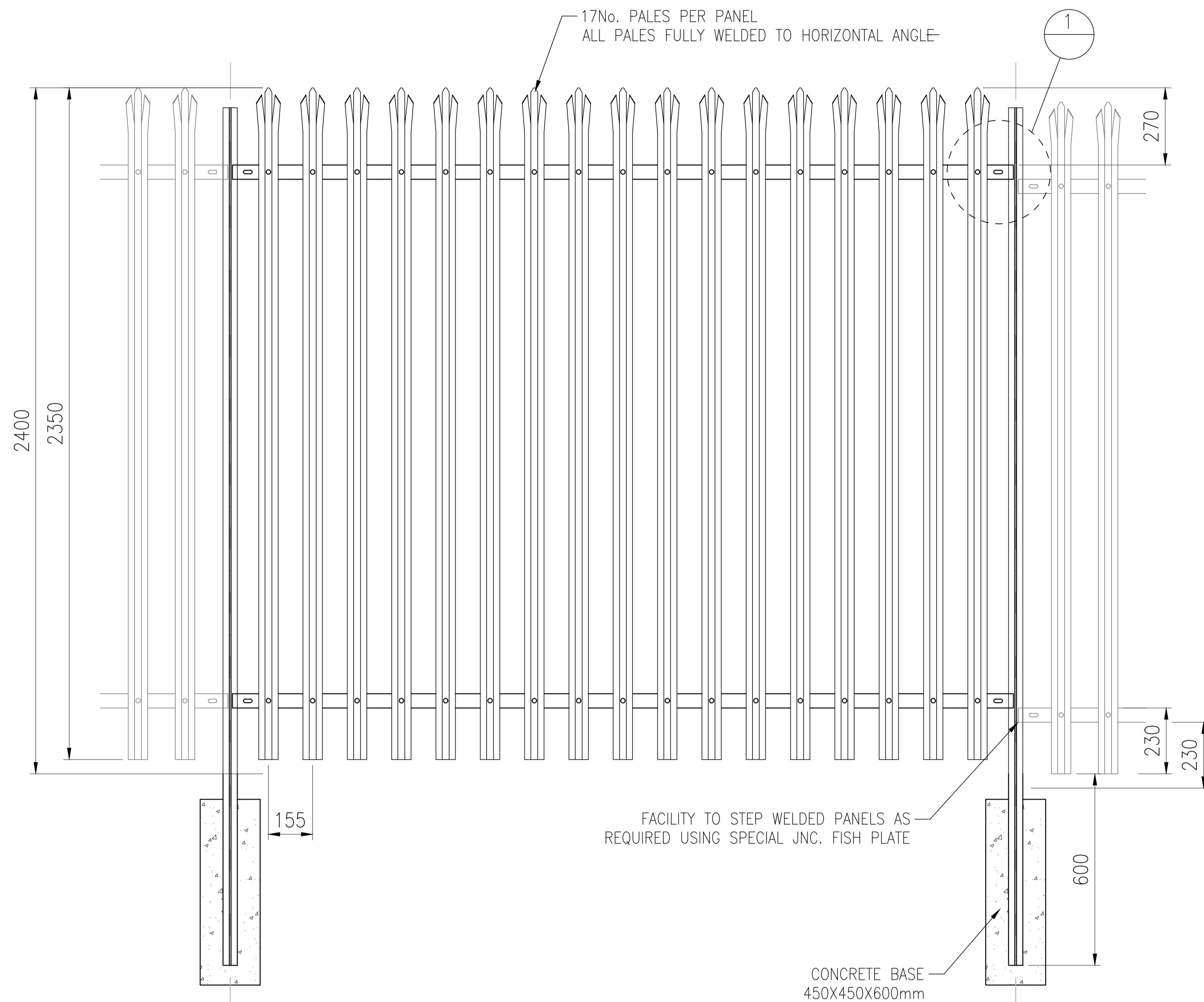


Planting species	%mix	Height cm	Age class	Root spec	Spacing
Native Screen planting					
Alnus glutinosa	20	250-300	Feathered trees	bare root	1.5m centres
Betula pendula	20	250-300	Feathered trees	bare root	
Corylus avellana	10	90-120	1+1	bare root	
Ilex aquifolium	10	90-120	1+1	bare root	
Pinus sylvestris	10	20-30	Container	bare root	
Prunus spinosa	15	90-120	1+1	bare root	
Quercus robur	15	250-300	Standard	bare root	
Native Woodland planting					
Reuse of existing whips currently on site	50				2.5m centres
New woodland planting:					
Alnus glutinosa	10	175-200	Feathered trees	bare root	2.5m centres
Corylus avellana	15	90-120	1+1	bare root	
Crataegus monogyna	15	90-120	1+1	bare root	
Quercus robur	10	90-120	1+1	bare root	
Native Hedgerow Planting					
Crataegus monogyna	60	60-90cm high whip	1+0	bare root	5/lin m
Corylus avellana	15	60-90cm high whip	1+0	bare root	
Sambucus niger	10	60-90cm high whip	0+1	bare root	
Ilex aquifolium	10	60-90cm high whip	-	container	
Rosa canina	5	60-90cm high whip	1+1	bare root	

Planting species	%mix	Height cm	Age class	Root spec	Spacing
Shrub planting					
Crataegus monogyna	40	60-90cm high whip	1+0	bare root	1 per sqm
Corylus avellana	15	60-90cm high whip	1+0	bare root	
Euonymus europaeus	5	60-90cm high whip	0+1	bare root	
Ilex aquifolium	5	60-90cm high whip	-	container	
Rosa canina	20	60-90cm high whip	1+1	bare root	
Viburnum opulus	15	60-90cm high whip	1+1	bare root	
Grass-low maintenance mix					
Species mix to be decided after soil analysis		Rate			
		20g/sq.m			

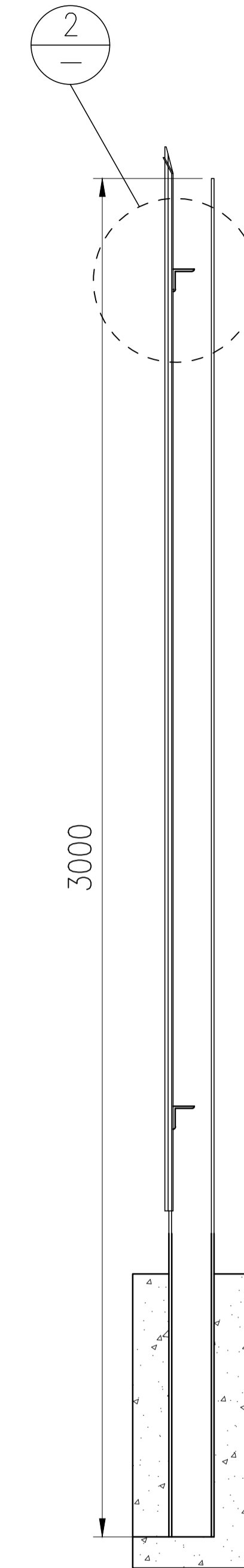
Note: Native planting provisions subject to further development at detailed design stage.

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		No.	Revision	Date	By	Chkd	App'd								
Drawing Title: PROPOSED LANDSCAPING SHEET 01 OF 01															
Drawn: MJM Designed: CL Checked: EW Approved: EW Status: A1 - Approved/Accepted		Project Originator Volume Location Type Role Number MCAAS2W- ROD - ELS - TO15_AE - DR - CH - 300001	Scale (A1): 1:500 Date: JULY 2023 Job No: 21.114 Rev: P01												



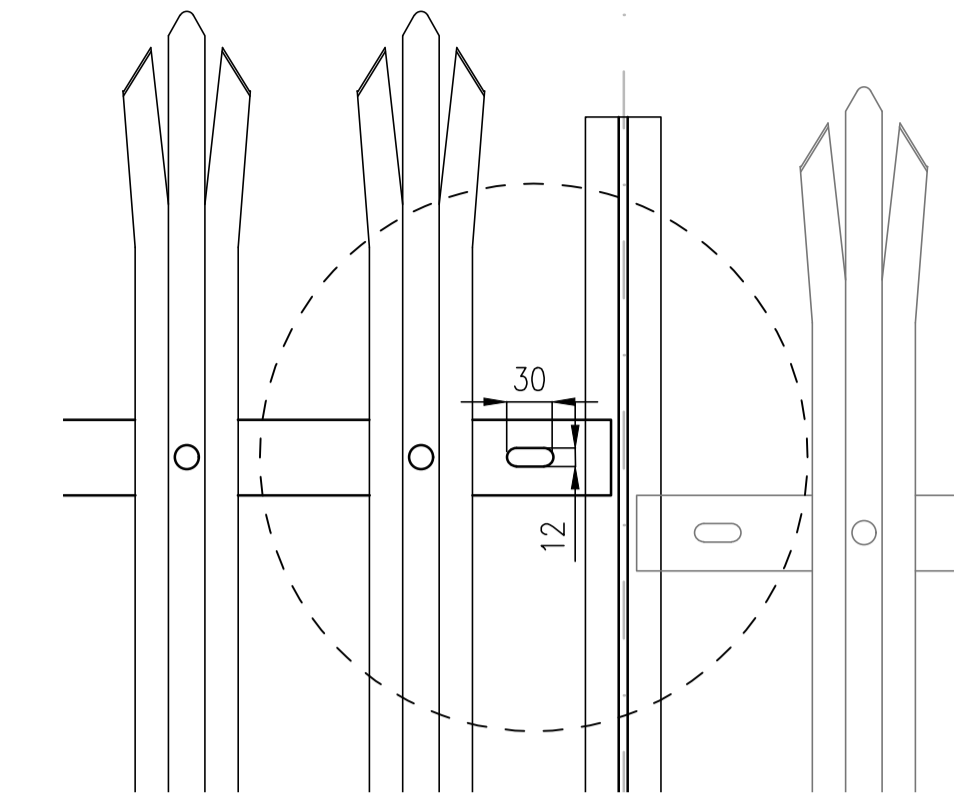
FRONT ELEVATION

SCALE 1:100 (@ A1)
1:200 (@ A3)

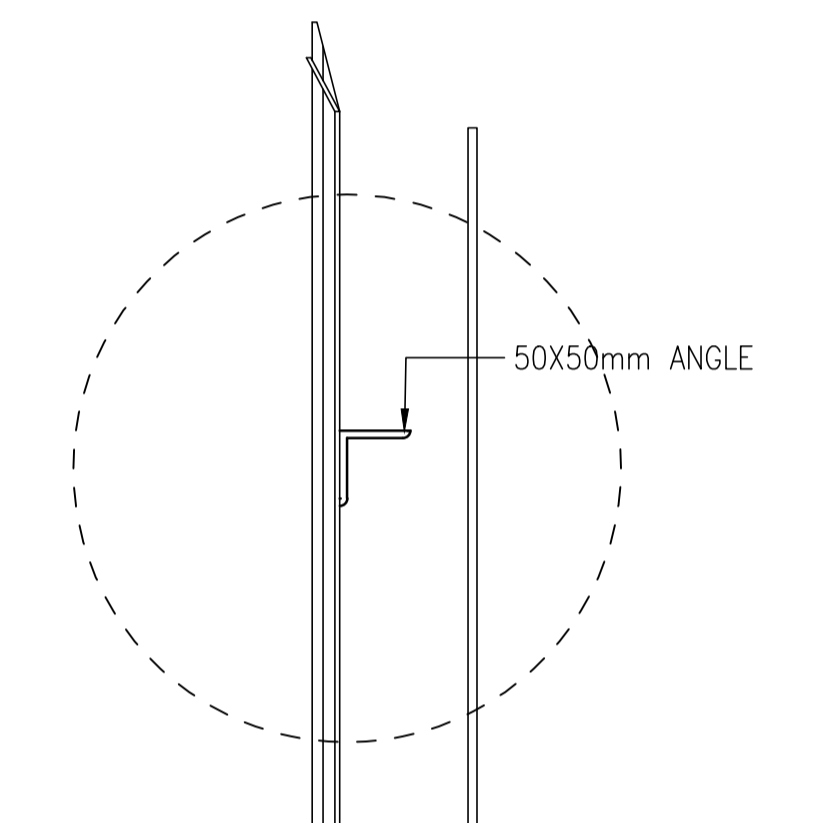


SIDE VIEW

DETAIL 1



DETAIL 2



NOTE:
ALL MEASUREMENTS ARE IN MILLIMETERS
UNLESS OTHERWISE STATED



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No.	Revision	Date	By	Chk'd	App'd

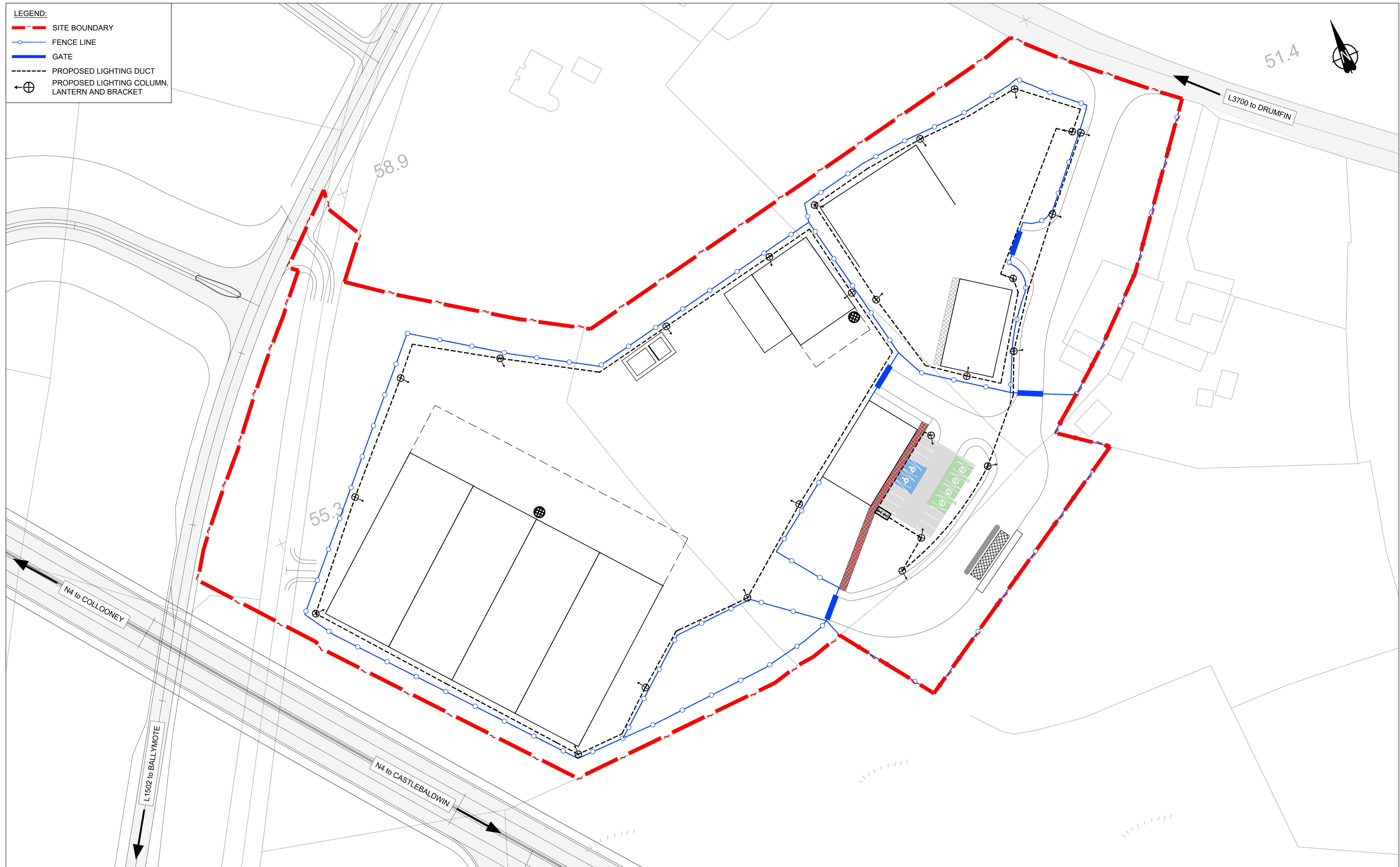



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t +353 (0) 1 294 0800
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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN					
Drawing Title	PROPOSED BOUNDARY TREATMENT DETAILS SHEET 01 OF 01					
Drawing Number	MCAAS2W-	ROD	- HFE -	TO15_AE	- DE -	CH - 300301
Scale (A1)	AS SHOWN	Date:	JULY 2023	Job No:	21.114	Rev: P01


LEGEND:

- - - SITE BOUNDARY
- FENCE LINE
- GATE
- - - PROPOSED LIGHTING DUCT
- ⊕ PROPOSED LIGHTING COLUMN, LANTERN AND BRACKET







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Department of Transport



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Transport Infrastructure Ireland




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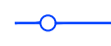


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Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN			
Drawing Title	PROPOSED LIGHTING LAYOUT SHEET 01 OF 01			
Drawing Number	MCAAS2W-	ROD	- HLG -	TO15_AE - DR - CH - 301301
Scale (A1)	1:500	Date:	JULY 2023	Job No: 21.114 Rev: P01

LEGEND:
 SITE BOUNDARY
 FENCE LINE




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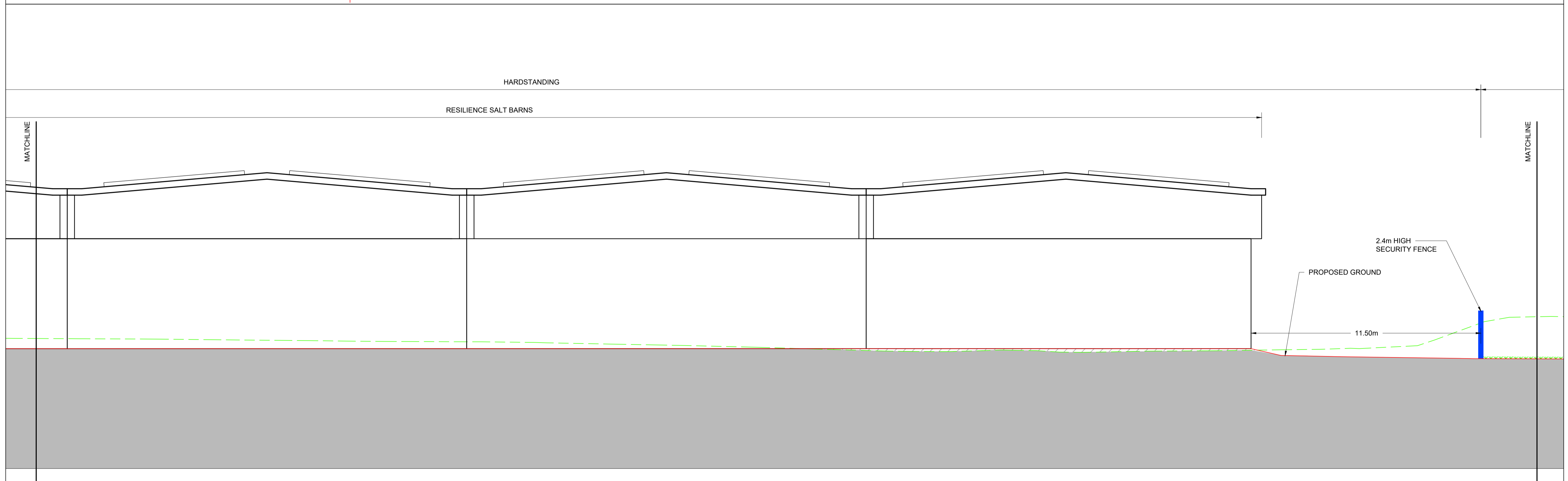
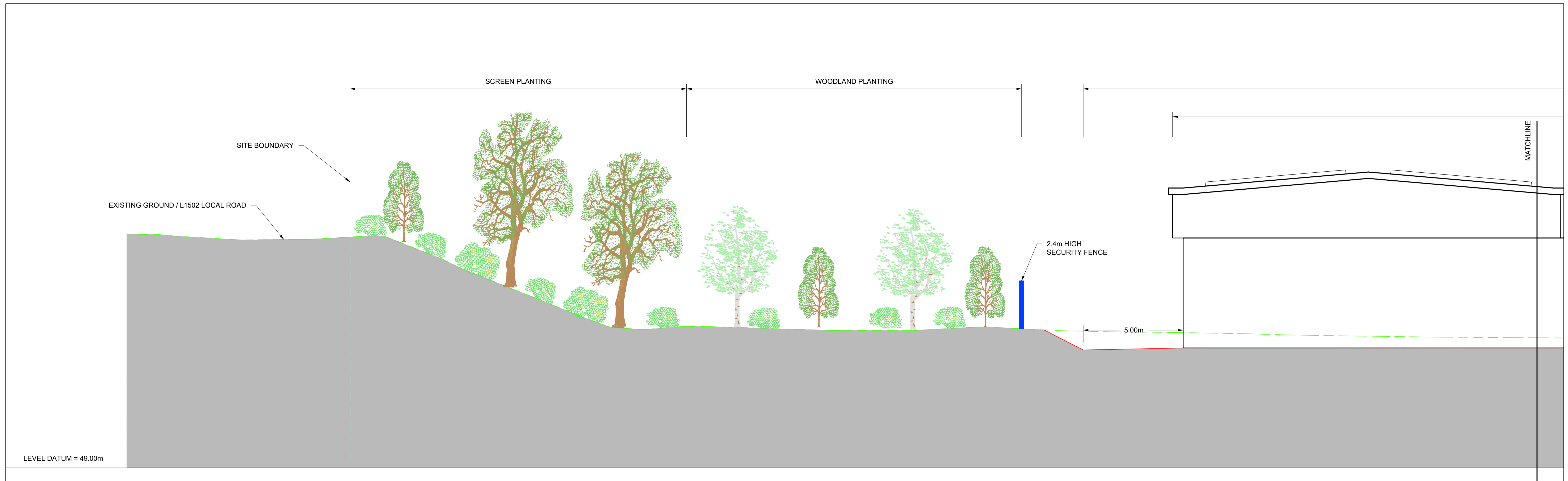
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Project Title: STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN

Drawing Title: PROPOSED SITE SECTIONS SHEET 01 OF 04

Project	Originator	Volume	Location	Type	Role	Number
MCAAS2W-	ROD	GEN	TO15_AE	DR	CH	300005

Scale (A1): 1:500 | Date: JULY 2023 | Job No: 21.114 | Rev: P01



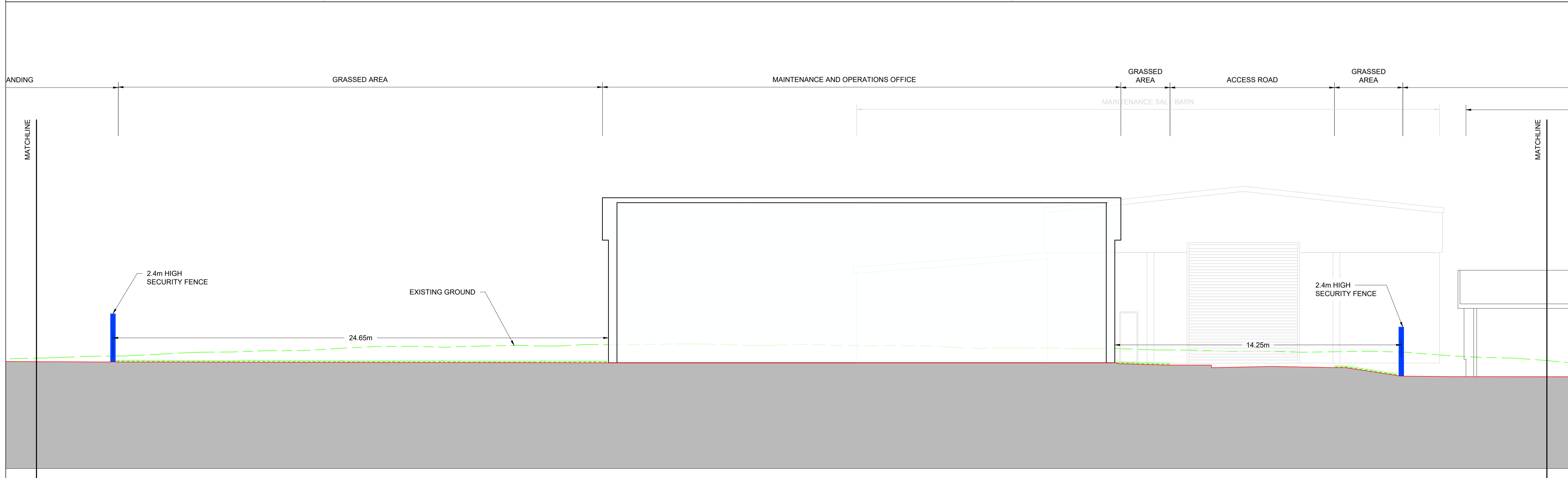
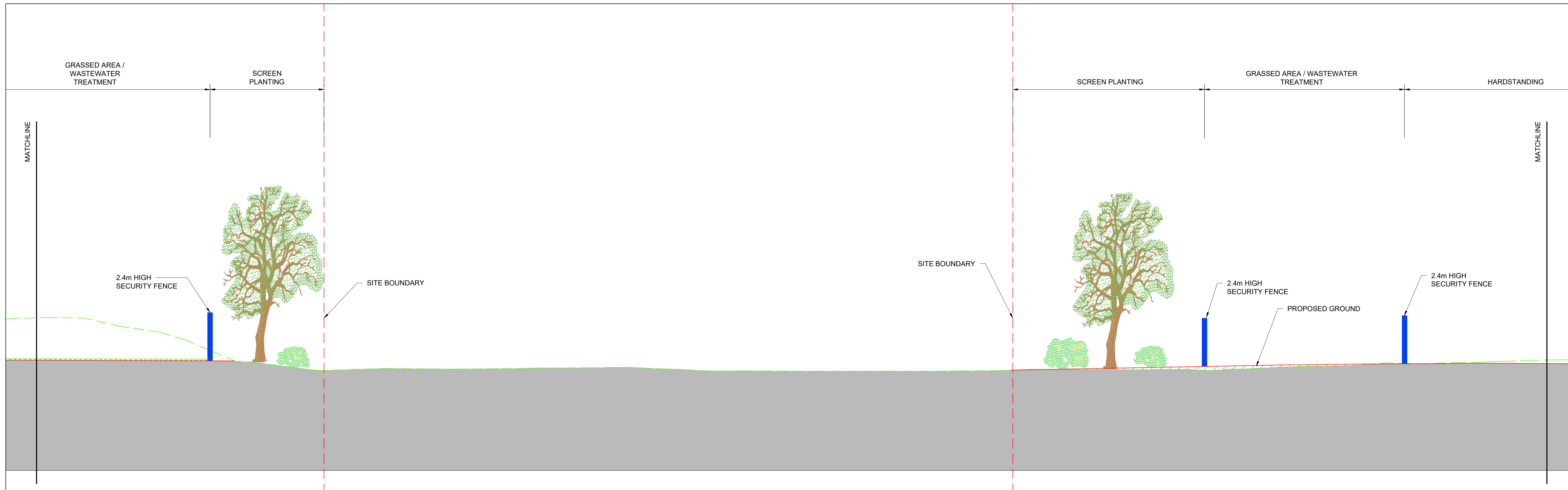
No.	Revision	Date	By	Chk'd	App'd

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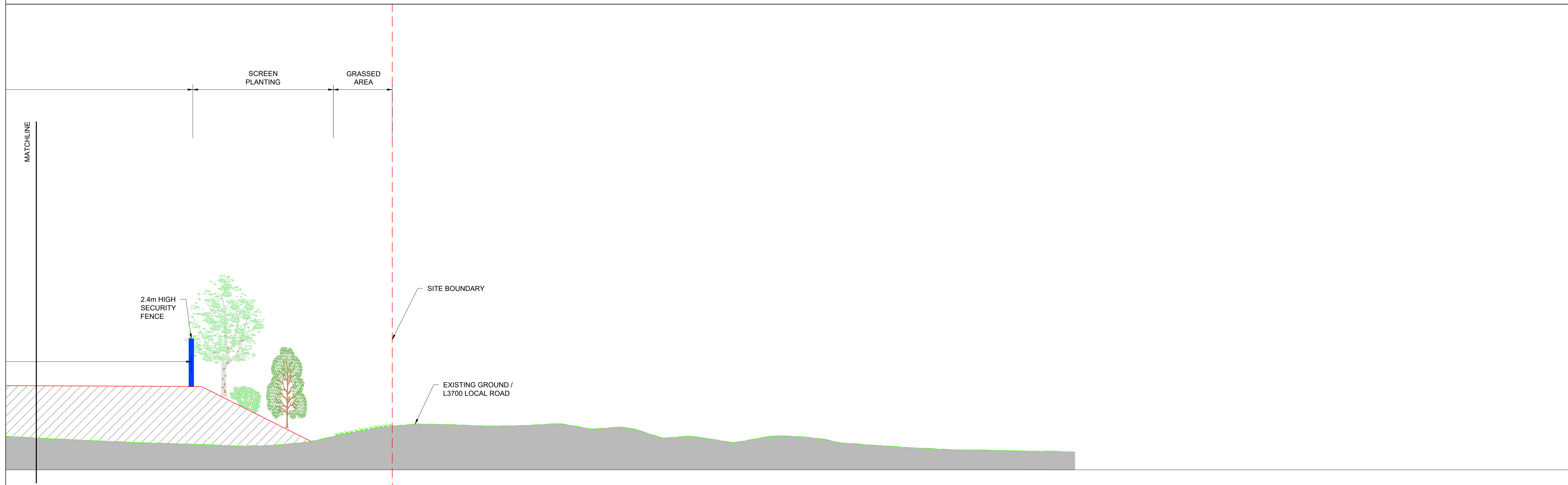
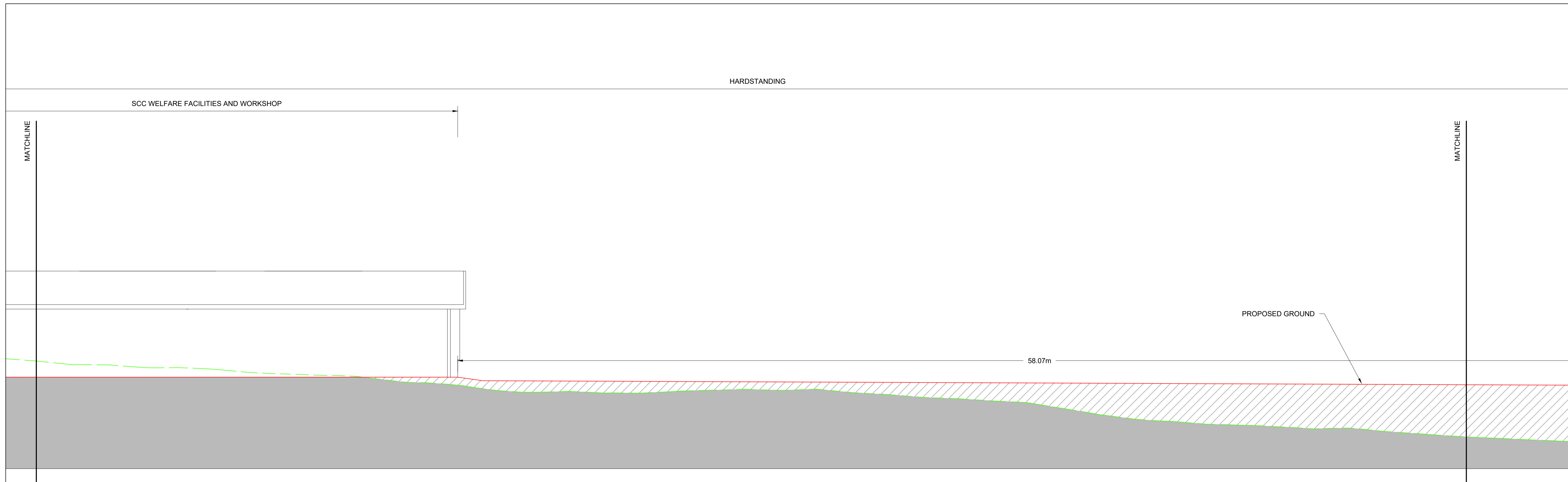
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Drawn: MJM | Designed: CL | Checked: EW | Approved: EW | Status: A1 - Approved/Accepted

Project Title	STRATEGIC ROAD MAINTENANCE FACILITY AT DRUMFIN						
Drawing Title	PROPOSED SITE SECTIONS SHEET 02 OF 04						
Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
MCAAS2W-	ROD	GEN	TO15_AE	DR	CH		300006
Scale (A1)	1:100	Date:	JULY 2023	Job No:	21.114	Rev:	P01



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Consulting Engineers
 Civil - Structural - Transportation - Environmental

Arena House, Arena Road, Sandyford, Dublin 18, Ireland
 t +353 (0) 1 294 0800
 f +353 (0) 1 294 0820
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