

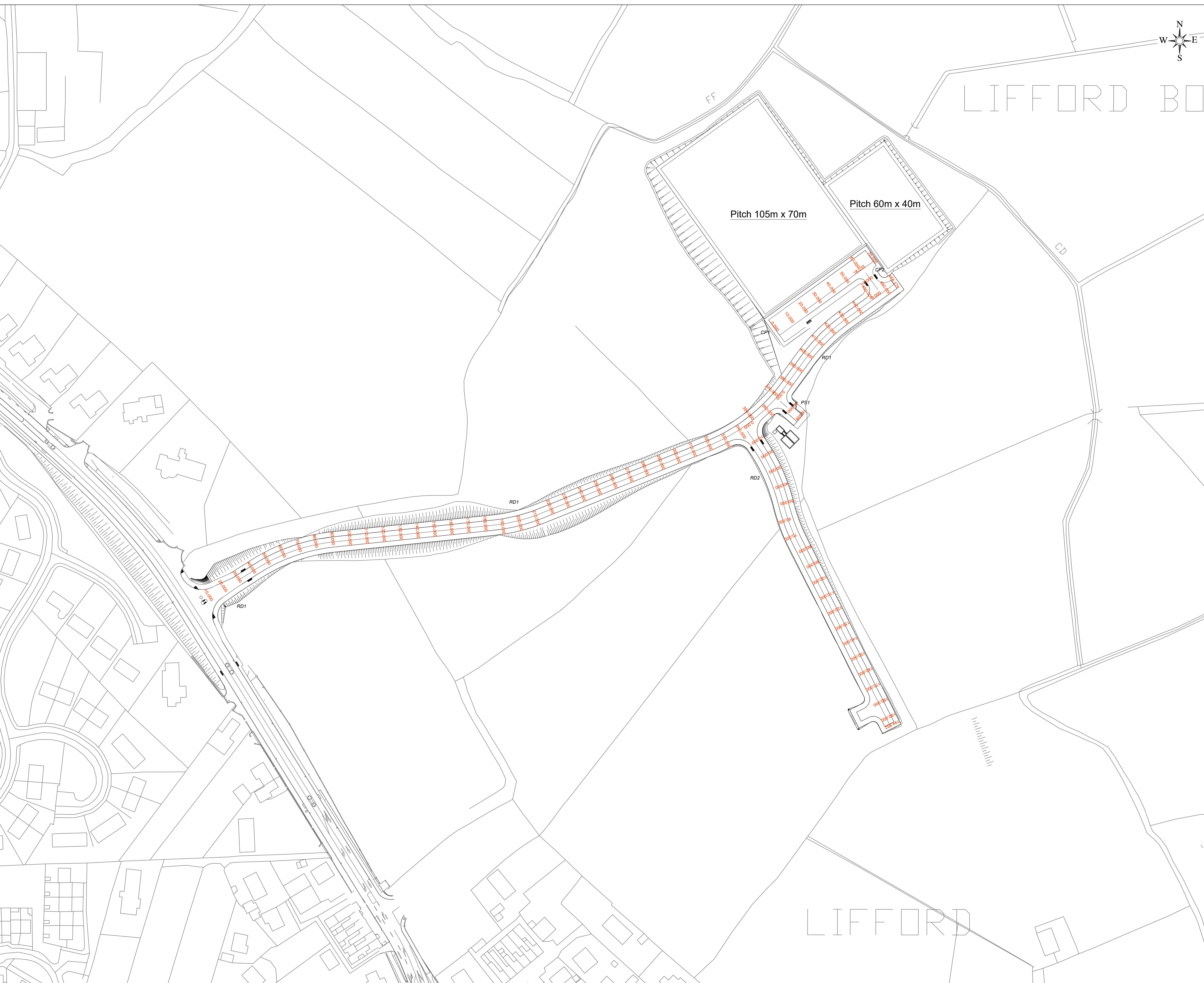
LIFFORD BO

FF

CD

Pitch 105m x 70m

Pitch 60m x 40m



NOTES

1. This drawings illustrates chainage references for longitudinal section profiles along the access roads.
2. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated
3. All Coordinates are to Irish Grid, unless otherwise noted. These sections need to be read in conjunction with the proposed site layout & levels drawings. Any discrepancy in levels need to be informed to the Engineers prior to construction
4. For Longitudinal Sections Relating to these chainage references please refer to drawings LIF-MCA-ST1-00-DR-C-1111 / 1112-Proposed Road Longitudinal Sections

LEGEND

0.000 Proposed Chainage Marker

P3	13/04/2022	Alterations Following Stage 1 RSA	PA
P2	24/03/2022	Car Park Extension	PA
Rev	Issue Date	Description	App

Status **PRELIMINARY**

Client **Donegal County Council**

Project **The Common, Lifford Multi-Use Development**

Drawing **Proposed Road Longitudinal Sections Plan**

Scale **1:1000 @ A1**



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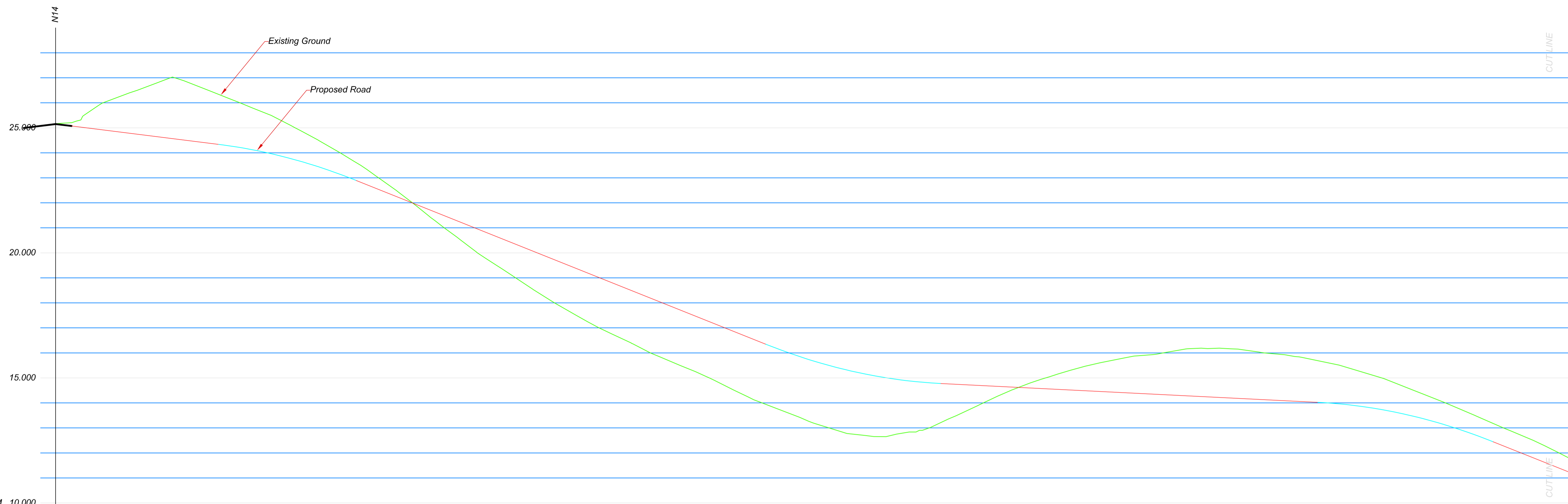
Drawn	DWW	Checked	PA	Approved	PA
Date	2022-02-14	Date	2022-02-14	Date	2022-02-14

Project - Organisation - Zone - Level - Type - Role - Number - Revision
LIF - MCA - ST1-00 - DR - C - 1110 - P3

Project Number **E2324**
 Status code & Description **S2 - For Information**

All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.

LIFFORD

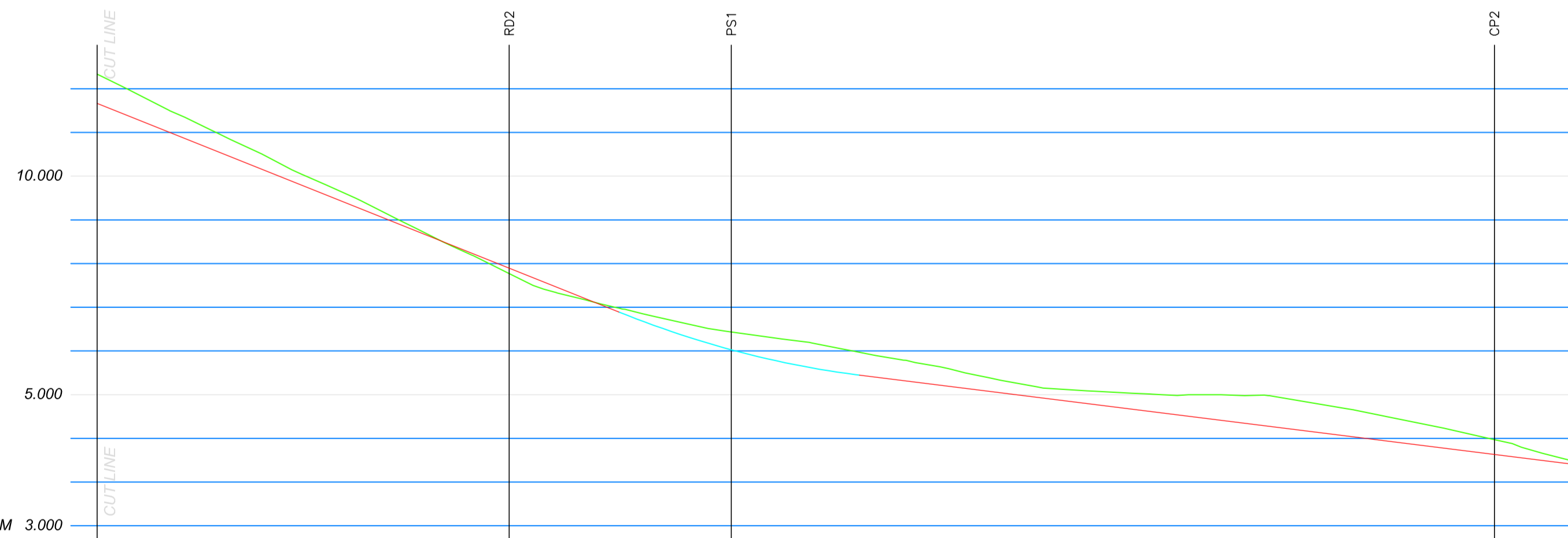


NOTES

1. This drawings illustrates longitudinal section profiles along the access road. All levels / chainages shown along the road centreline.
2. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated.
3. All Coordinates are to Irish Grid, unless otherwise noted.
4. These sections need to be read in conjunction with the proposed site layout & levels drawings. Any discrepancy in levels need to be informed to the Engineers prior to construction.
5. For chainage references please refer to drawing LIF-MCA-ST1-00-DR-C-1110-Proposed Road Longitudinal Sections Plan.

CHAINAGE	EXISTING GROUND LEVEL	ALIGNMENT LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0.000	25.167	25.073	G= -2.500% 1: -40.0	R= 105.000
3.200		24.903		
10.000	26.040	24.653	L= 27.500 KF= -5.0	R= 105.000
20.000	26.779	24.403		
30.000	26.540	24.338	G= -8.000% 1: -12.5	R= 105.000
32.567		24.087		
40.000	25.740	23.599	KF= 5.0 L= 35.000	R= 105.000
42.791		22.100		
50.000	24.780	22.906	G= -1.000% 1: -100.0	R= 105.000
60.000	23.821	21.300		
70.000	22.203	20.500	L= 35.000 KF= -5.0	R= 105.000
80.000	20.656	19.700		
90.000	19.257	18.900		
91.514		18.100		
100.000	17.963	17.300		
110.000	16.866	16.500		
120.000	15.904	16.352		
130.000	15.054	15.766		
140.000	14.086	15.229		
147.854		14.892		
150.000	13.305	14.777		
160.000	12.737	14.745		
170.000	12.818	14.645		
176.854		14.545		
180.000	13.482	14.445		
185.264		14.345		
190.000	14.427	14.245		
200.000	15.141	14.145		
210.000	15.659	14.045		
214.553		14.023		
220.000	15.953	13.884		
230.000	16.174	13.528		
240.000	16.043	12.972		
250.000	15.780	12.448		
262.193		12.224		
260.000	15.299	11.424		
260.000	13.884			
270.000	14.608			
280.000	13.803			
287.193				
290.000	12.941			
300.000	12.041			

Vt 5/1 Hz exaggeration

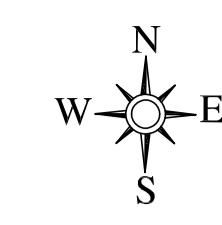


CHAINAGE	EXISTING GROUND LEVEL	ALIGNMENT LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
300.000	12.041	11.424	G= -8.000% 1: -12.5	R= 105.000
310.000	11.059	10.624		
320.000	10.078	9.824	KF= 5.0 L= 27.500	R= 105.000
330.000	9.149	9.024		
340.000	8.182	8.224	G= -2.500% 1: -40.0	R= 105.000
344.123		7.424		
350.000	7.309	6.691		
356.654	6.622	6.635		
360.000	6.417	6.002		
370.000	6.134	5.569		
378.810		5.448		
384.154		5.302		
390.000	5.761	5.052		
397.819	5.347	4.802		
400.000	5.089	4.552		
410.000	4.988	4.302		
420.000	4.675	4.052		
430.000	4.272	3.802		
440.000	3.791	3.552		
450.000	3.454	3.395		
455.774				
460.000				
466.274				

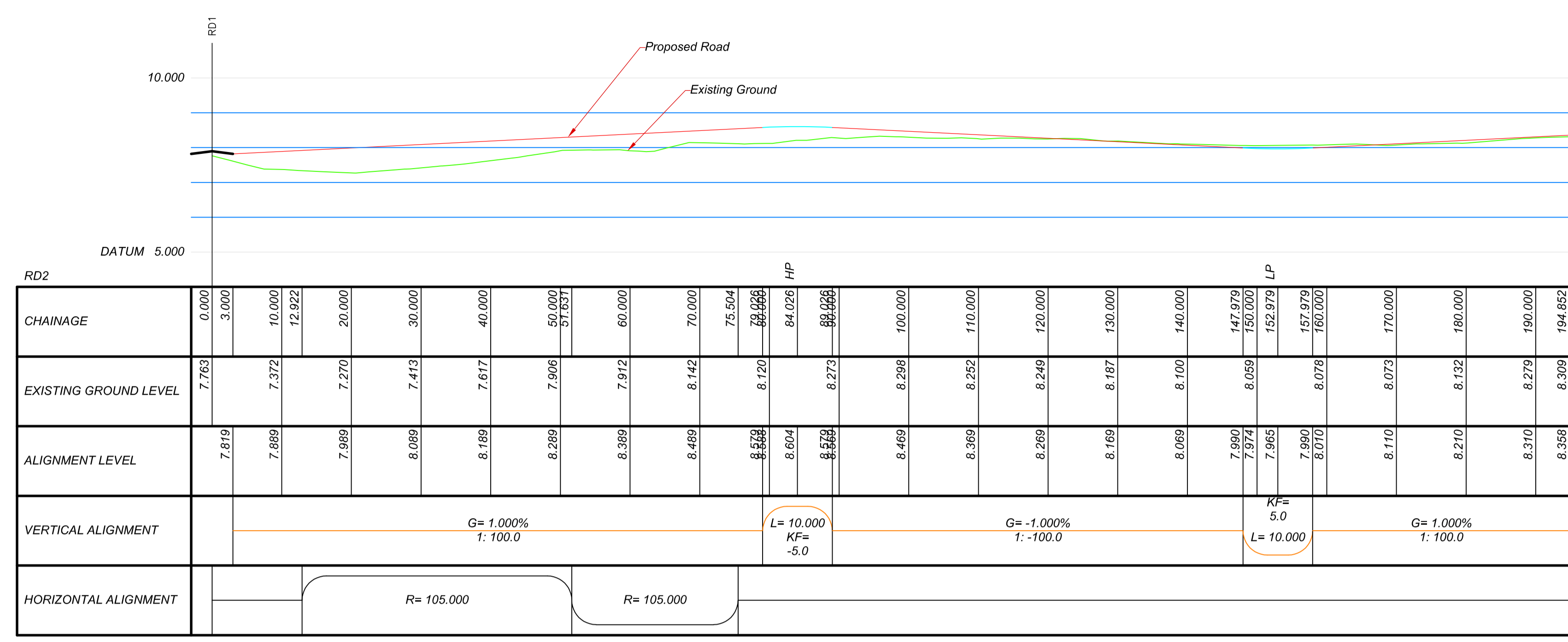
Vt 5/1 Hz exaggeration

Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Road Longitudinal Sections (1 of 2)			
Scale: 1:500 @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	
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Drawn	DWW	Checked	PA
Date	2022-02-14	Date	2022-02-14
Approved		PA	
Date		2022-02-14	
Project	- Organisation - Zone - Level - Type - Role - Number - Revision		
LIF	- MCA - ST1-00 - DR - C - 1111 - P1		
Project Number	Status code & Description		
E2324	S2 - For Information		

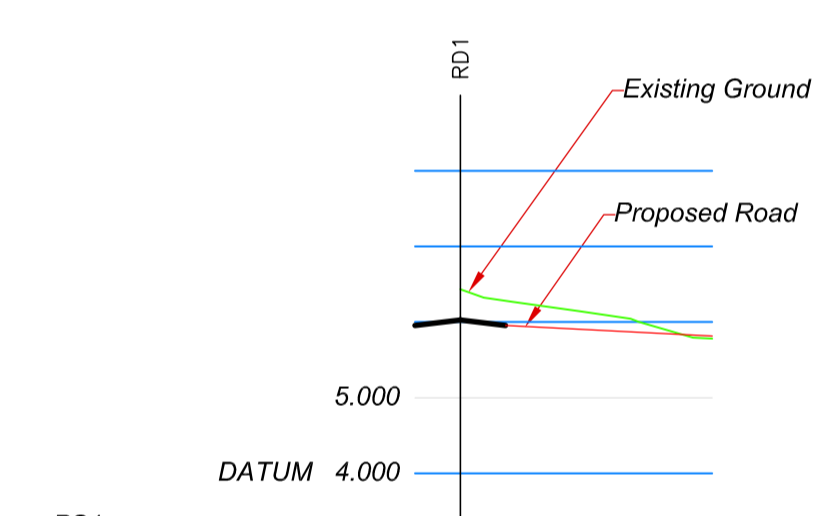
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.



- NOTES**
1. This drawings illustrates longitudinal section profiles along the access road. All levels / chainages shown along the road centreline.
 2. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated.
 3. All Coordinates are to Irish Grid, unless otherwise noted.
 4. These sections need to be read in conjunction with the proposed site layout & levels drawings. Any discrepancy in levels need to be informed to the Engineers prior to construction.
 5. For chainage references please refer to drawing LIF-MCA-ST1-00-DR-C-1110-Proposed Road Longitudinal Sections Plan

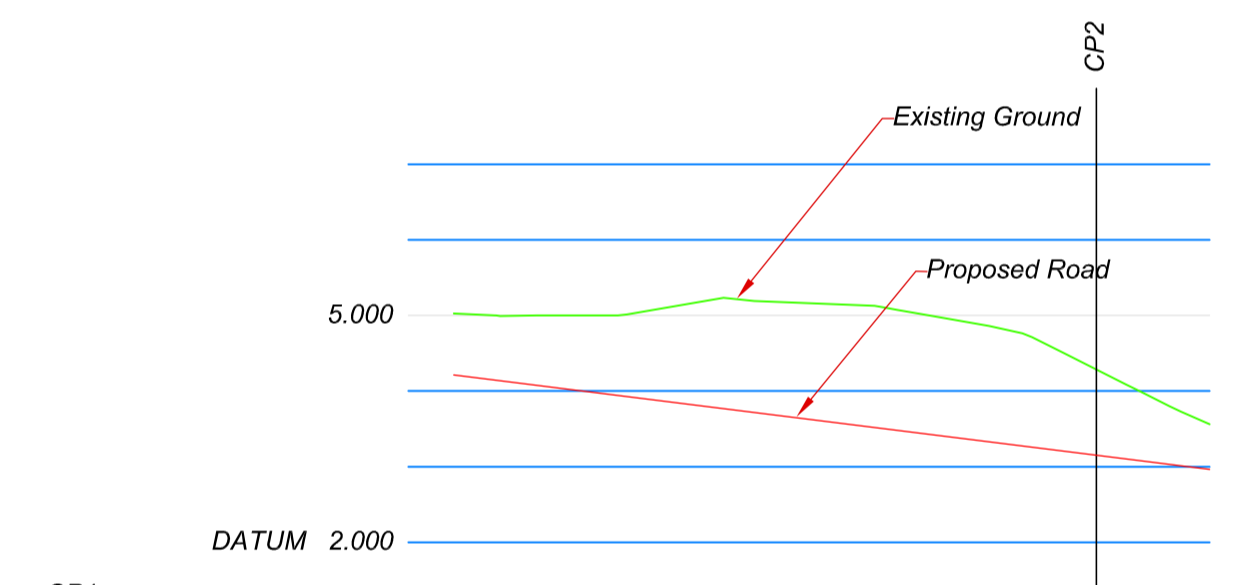


Vt 5/1 Hz exaggeration



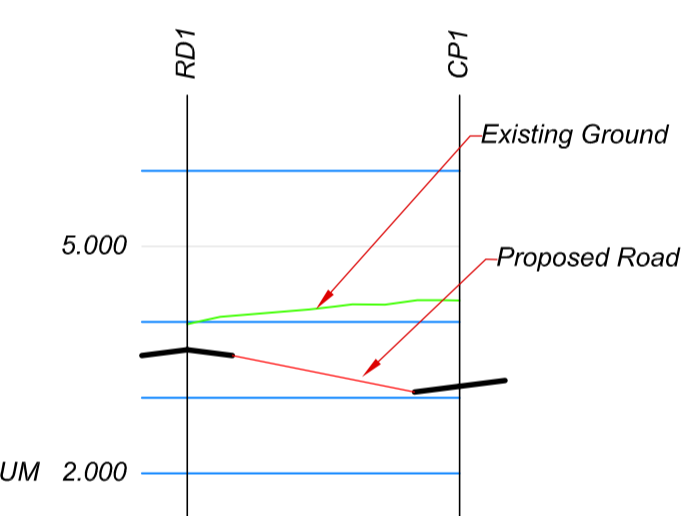
CHAINAGE	EXISTING GROUND LEVEL	ALIGNMENT LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0.000	6.432	5.953	G= -1.000% 1: -100.0	
3.000		5.883		
10.000	6.080	5.816	G= -1.000% 1: -100.0	
16.658	5.781	5.716		

Vt 5/1 Hz exaggeration



CHAINAGE	EXISTING GROUND LEVEL	ALIGNMENT LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0.000	5.025	4.213	G= -2.500% 1: -40.0	
10.000	5.000	3.963		
20.000	5.190	3.713	G= -2.500% 1: -40.0	
30.000	5.051	3.463		
40.000	4.537	3.213	G= -2.500% 1: -40.0	
42.494		2.963		
50.000	3.559	2.963	G= -2.500% 1: -40.0	

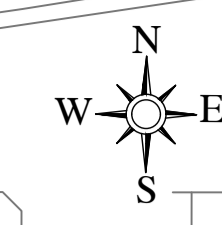
Vt 5/1 Hz exaggeration



CHAINAGE	EXISTING GROUND LEVEL	ALIGNMENT LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0.000	3.971	3.557	G= -4.000% 1: -25.0	
3.000		3.277		
10.000	4.211	3.076	G= -4.000% 1: -25.0	
18.032	4.286	3.076		

Vt 5/1 Hz exaggeration

Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Road Longitudinal Sections (2 of 2)			
Scale: 1:500 @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	
		T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk	
Drawn	DWW	Checked	PA
Date	2022-02-14	Date	2022-02-14
Approved		PA	
Date		2022-02-14	
Project: LIF - MCA - ST1-00 - DR - C - 1112 - P1			
Project Number: E2324		Status code & Description: S2 - For Information	
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			



LIFFORD B

- NOTES**
1. This drawing illustrates locations for section section profiles along the scheme.
 2. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated
 3. All Coordinates are to Irish Grid, unless otherwise noted.
 4. These sections need to be read in conjunction with the proposed site layout & levels drawings. Any discrepancy in levels need to be informed to the Engineers prior to construction
 5. For Cross Sections Relating to these profile references please refer to drawing LIF-MCA-ST1-00-DR-C-1116-Proposed Site Cross Sections

Pitch 105m x 70m

Pitch 60m x 40m



P3	13/04/2022	Layout Alterations Following RSA	PA
P2	24/03/2022	Car Park Extended	PA
Rev	Issue Date	Description	App

Status **PRELIMINARY**

Client **Donegal County Council**

Project **The Common, Lifford Multi-Use Development**

Drawing **Proposed Site Cross Sections Location Plan**

Scale **1:1000 @ A1**



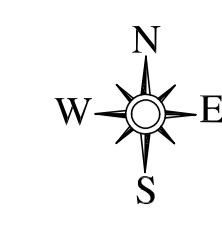
Contact Details
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 www.mcadamdesign.co.uk

Drawn	DWW	Checked	PA	Approved	PA
Date	2022-02-14	Date	2022-02-14	Date	2022-02-14

Project - Organisation - Zone - Level - Type - Role - Number - Revision
 LIF - MCA - ST1-00 - DR - C - 1115 - P3

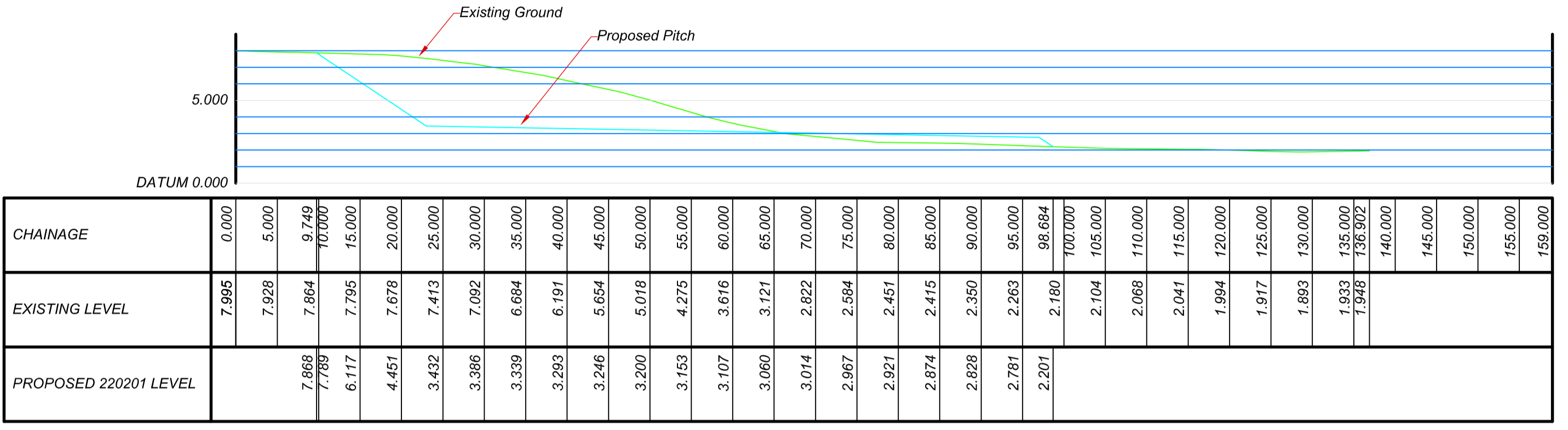
Project Number **E2324**
 Status code & Description **S2 - For Information**

All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.

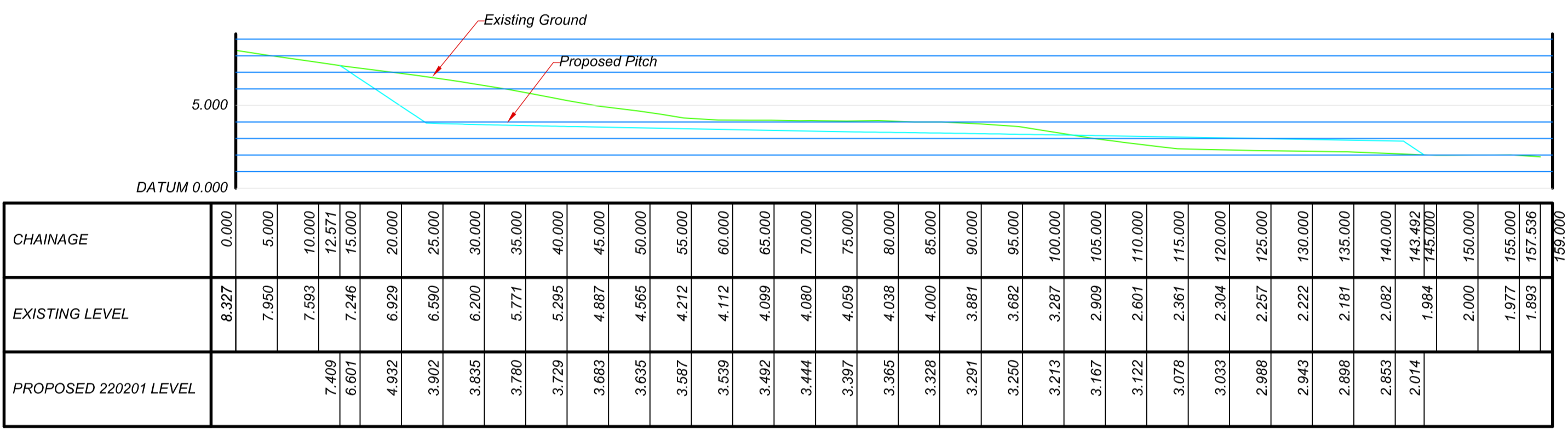


NOTES

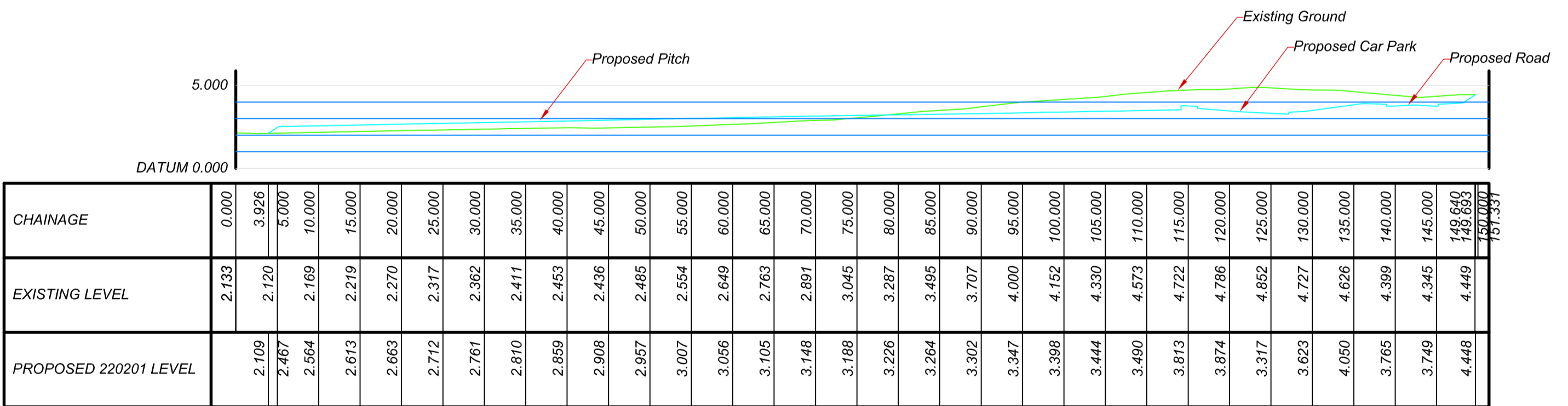
1. This drawing illustrates section section profiles along the scheme.
2. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated.
3. All Coordinates are to Irish Grid, unless otherwise noted.
4. These sections need to be read in conjunction with the proposed site layout & levels drawings. Any discrepancy in levels need to be informed to the Engineers prior to construction.
5. For plan illustration the location of these Cross Section Profiles please refer to drawing LIF-MCA-ST1-00-DR-C-1115-Proposed Site Cross Sections - Location Plan



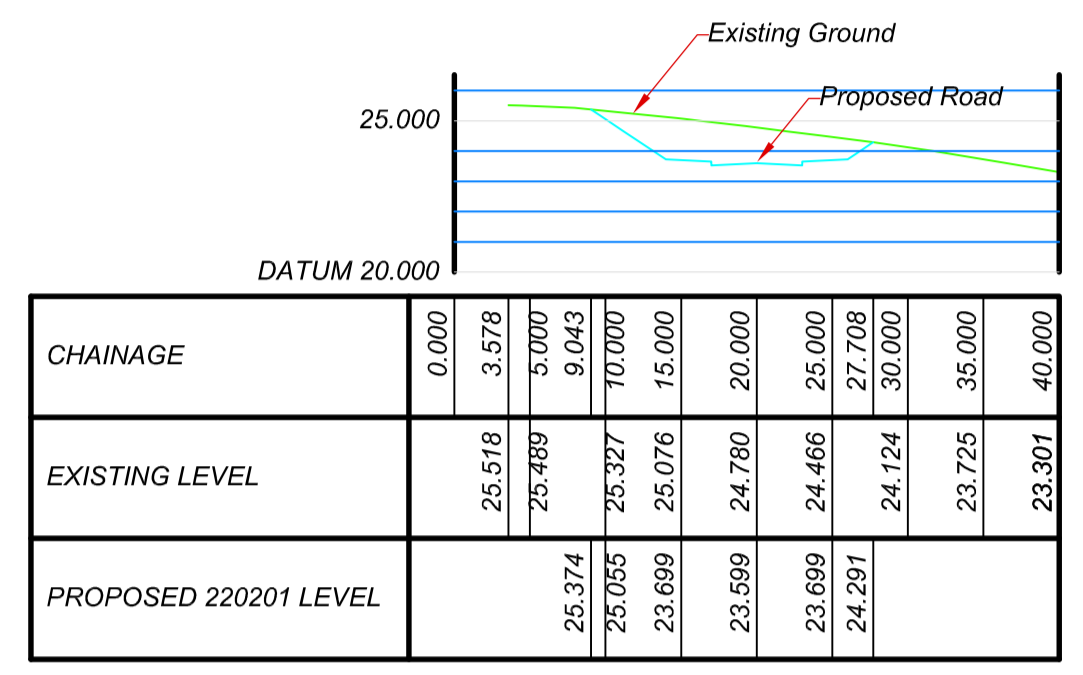
Pitches A-A Vt 2/1 Hz exaggeration



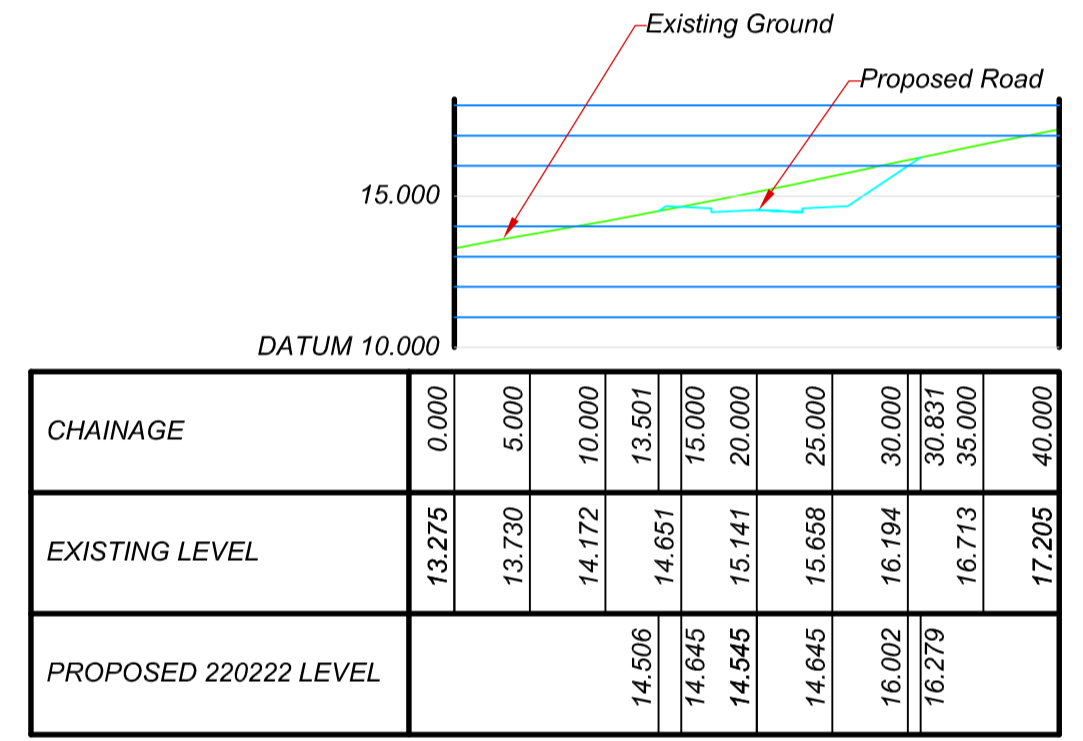
Pitches B-B Vt 2/1 Hz exaggeration



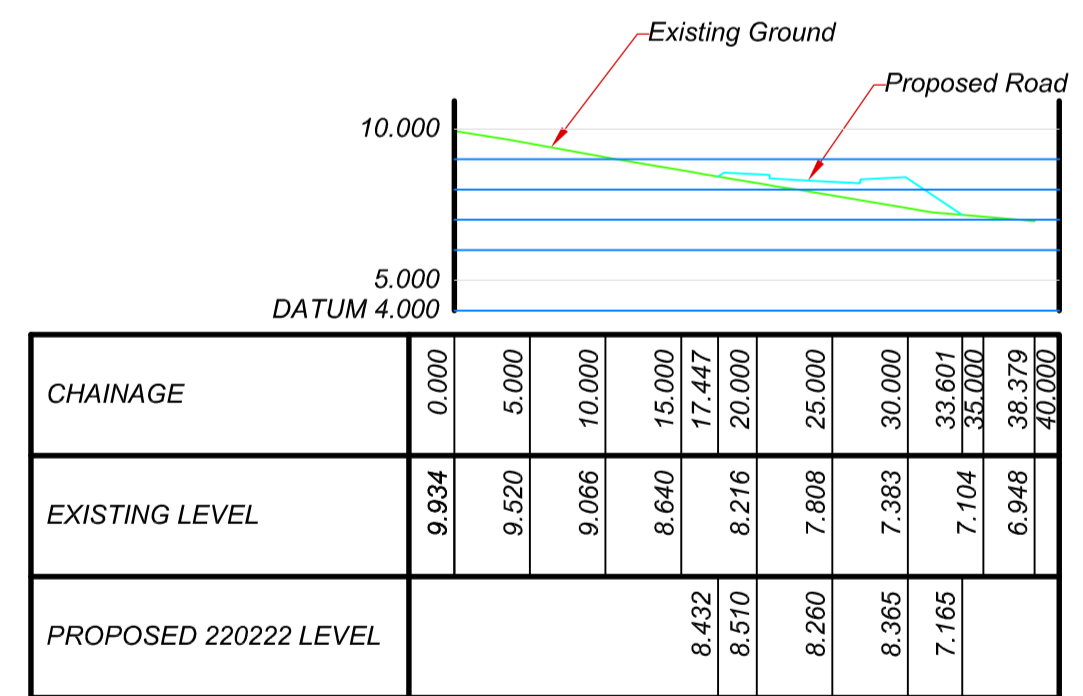
Pitches C-C Vt 2/1 Hz exaggeration



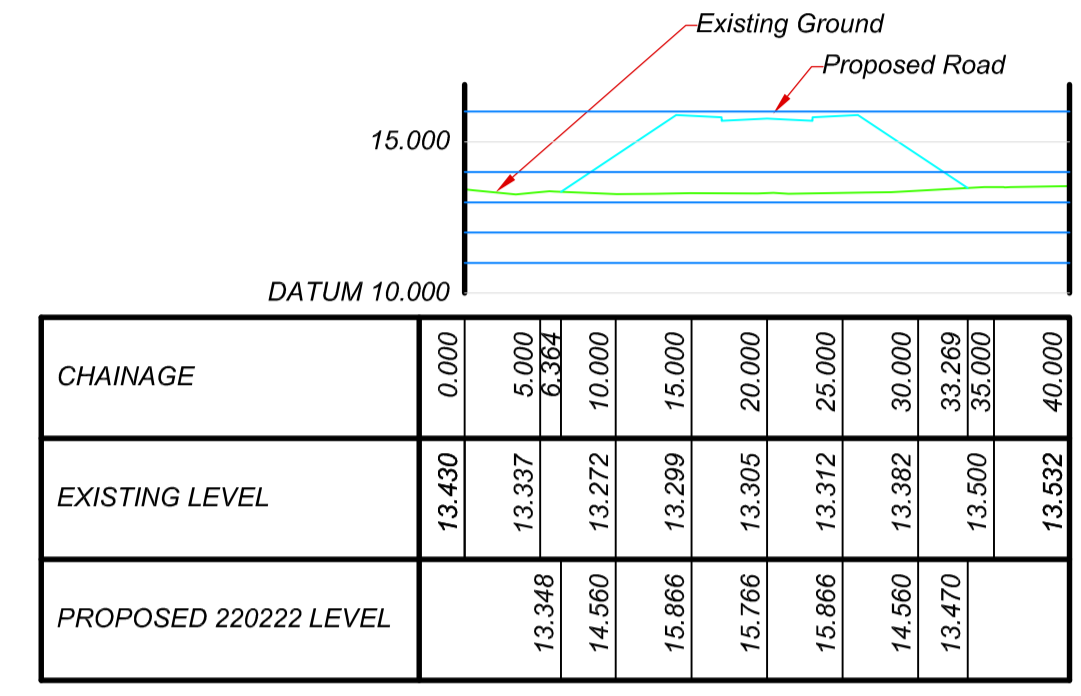
Rd 1 CH50 Vt 2/1 Hz exaggeration



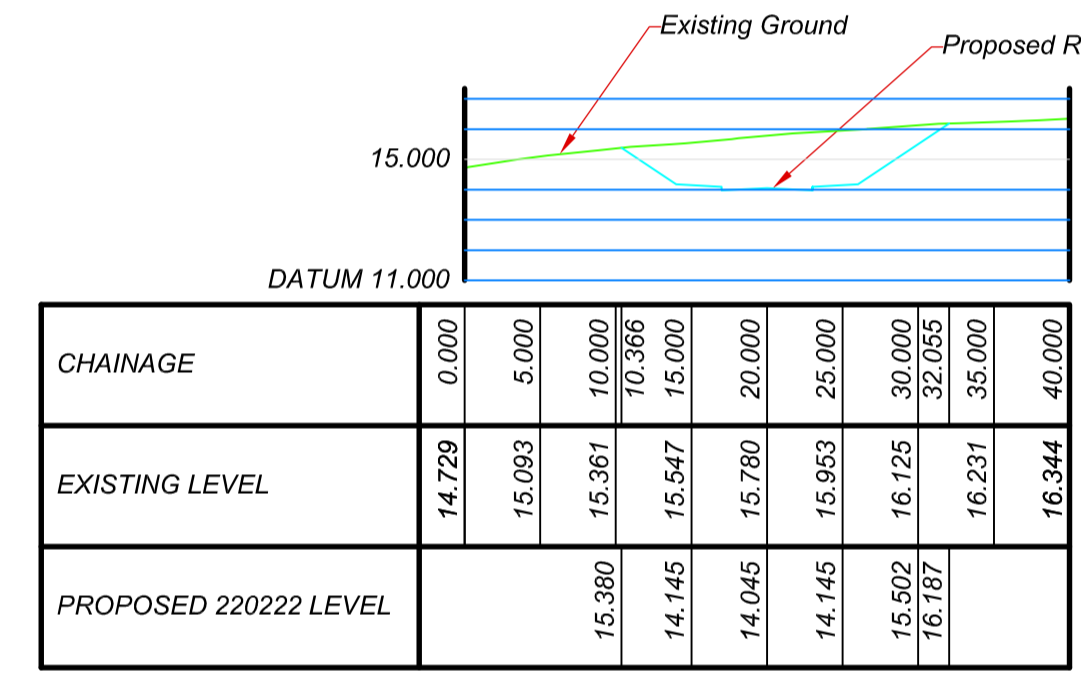
Rd 1 CH200 Vt 2/1 Hz exaggeration



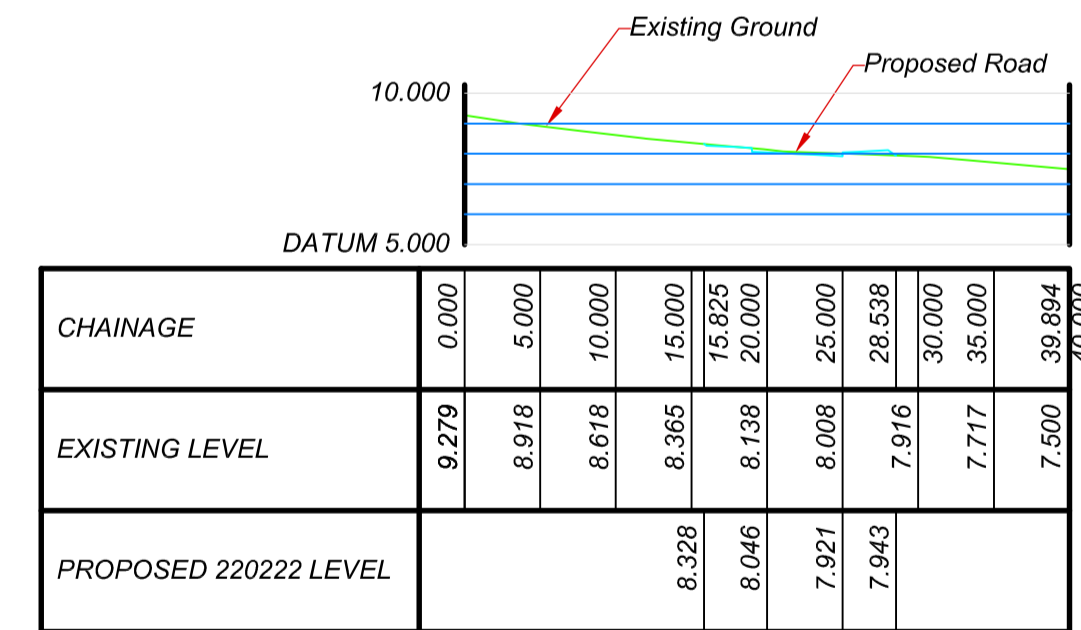
Rd 2 CH50 Vt 2/1 Hz exaggeration



Rd 1 CH150 Vt 2/1 Hz exaggeration

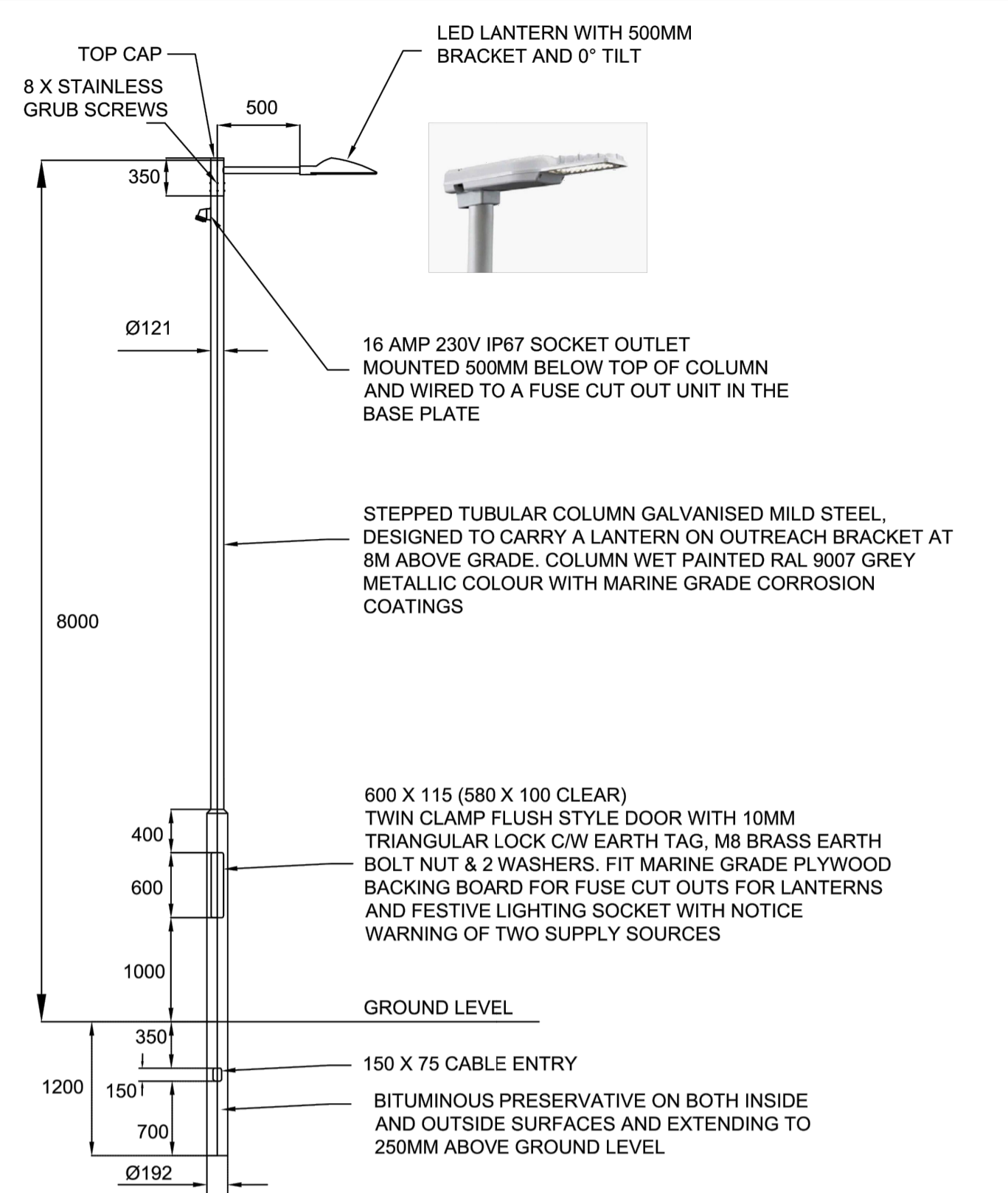


Rd 1 CH250 Vt 2/1 Hz exaggeration

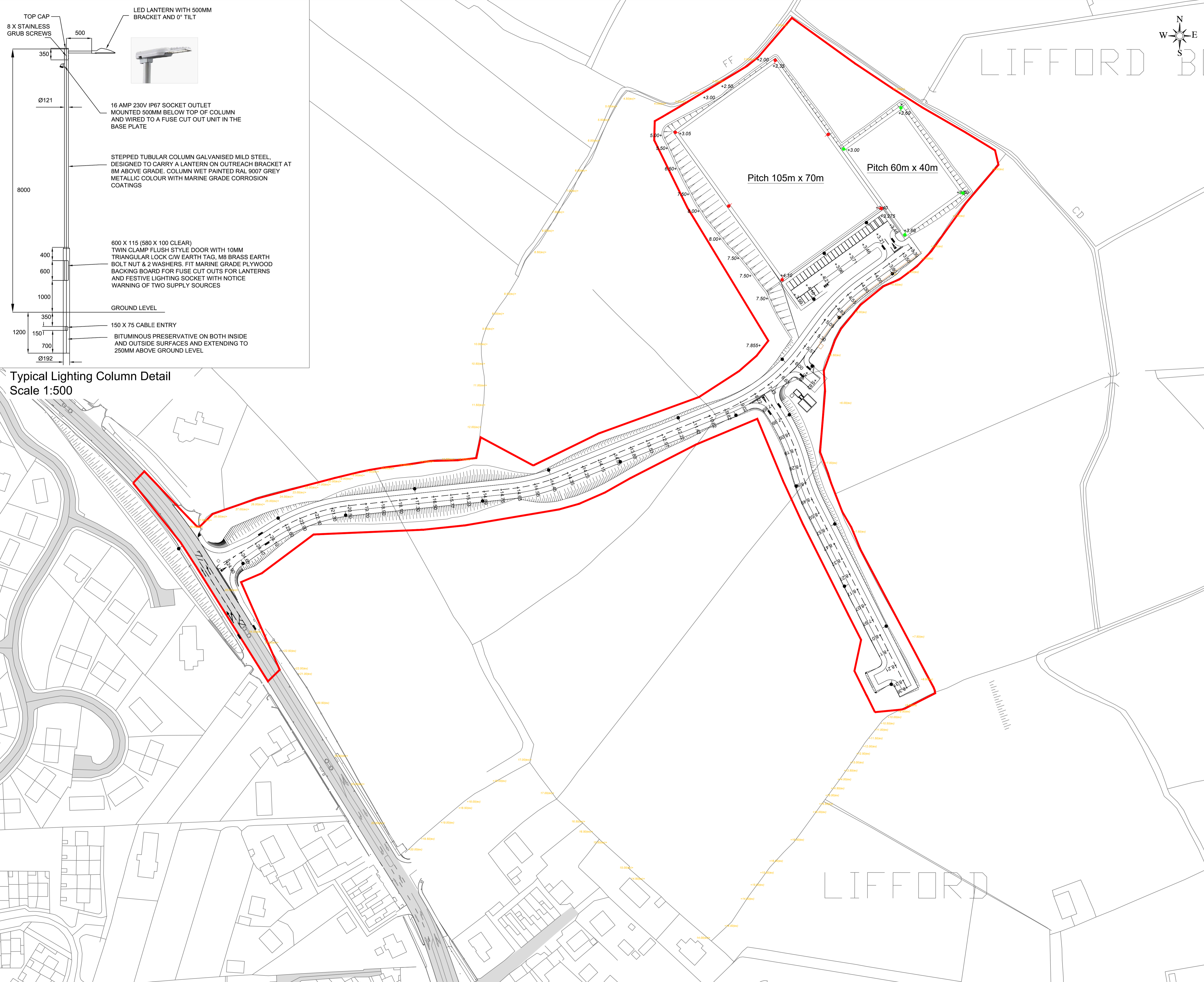


Rd 2 CH150 Vt 2/1 Hz exaggeration

Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Site Cross Sections			
Scale: 1:500 @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk
Drawn	DWW	Checked	PA
Date	2022-02-14	Date	2022-02-14
Project		Approved	
LIF - MCA - ST1-00 - DR - C - 1116		PA	
Project Number		Status code & Description	
E2324		S2 - For Information	
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			



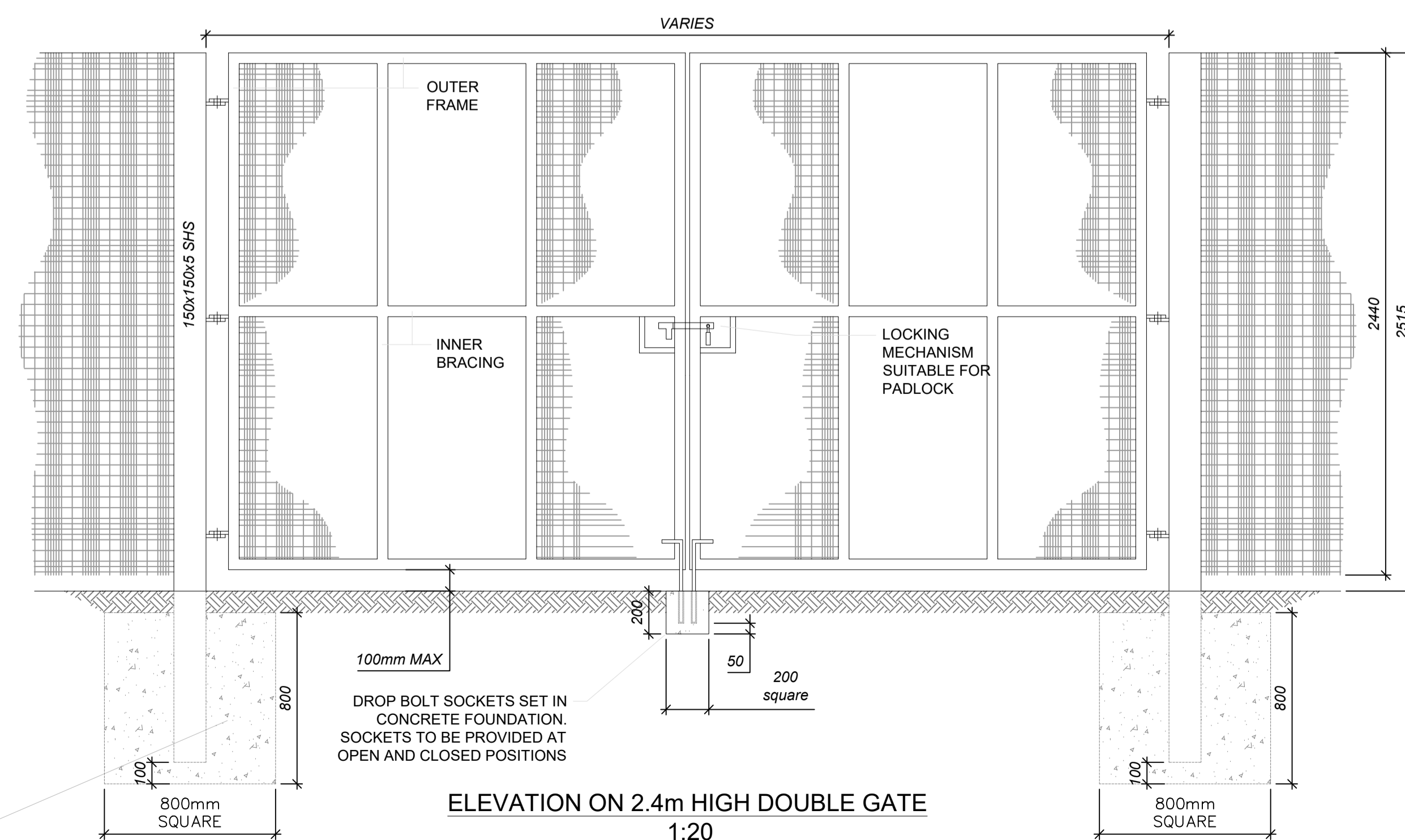
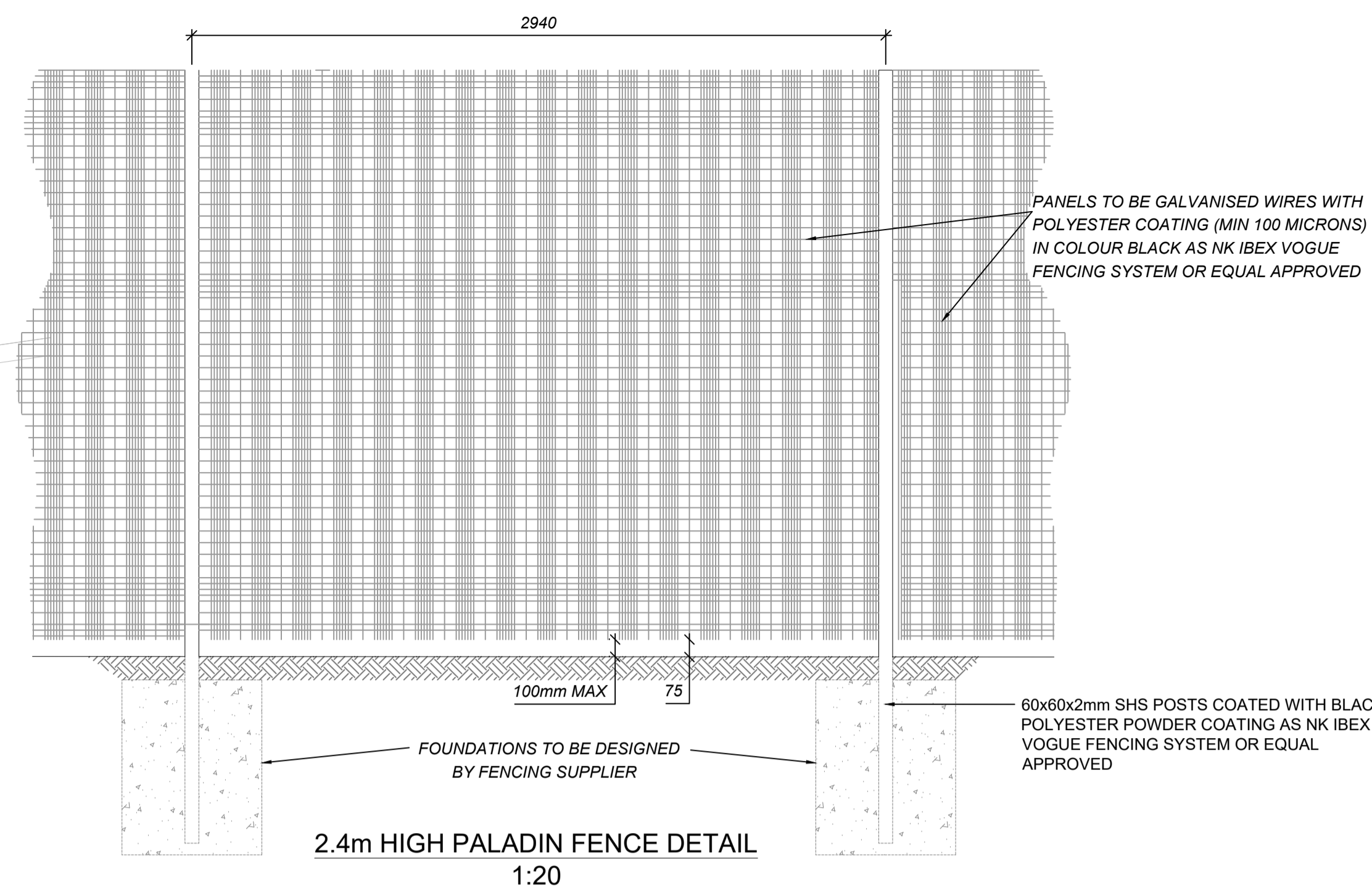
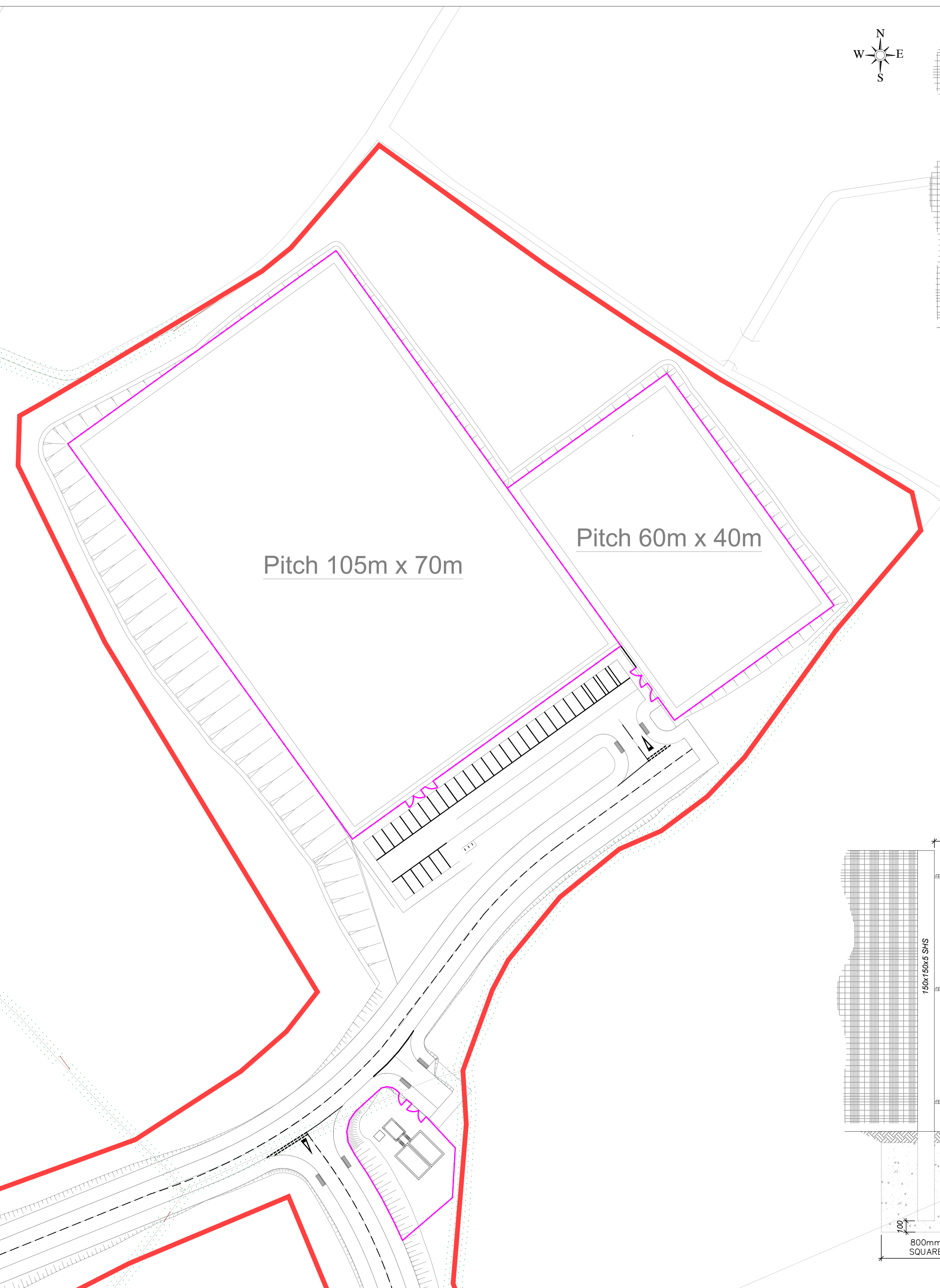
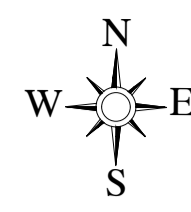
Typical Lighting Column Detail
Scale 1:500



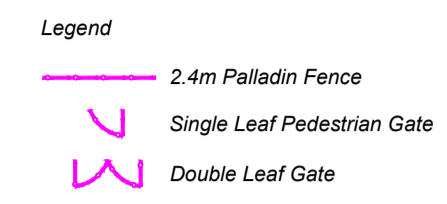
- NOTES:
- All levels and dimensions are in meters unless stated otherwise.
 - The mapping illustrated on this drawing is the proposed site layout which will be subject to change following design development.
 - This drawing should be read in conjunction with all relevant drawings (Architectural and Engineering).
 - The landscaping proposals illustrated on this drawing are indicative only.
 - All levels shown are for illustration purposes only and will require refinement at detailed design.

- Legend
- Proposed Lighting Column Location
 - Proposed 15m High Floodlighting Column
 - Proposed 18m High Floodlighting Column

Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Lighting Overview			
Scale: 1:1000 @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	
		T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk	
Drawn	DWW	Checked	PA
Date	2021-09-21	Date	2021-09-21
Approved		PA	
Date		2021-09-21	
Project: - Organisation - Zone - Level - Type - Role - Number - Revision			
LIF - MCA - ST1-00 - DR - C - 1120 - P1			
Project Number		Status code & Description	
E2324		S2 - For Information	
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			

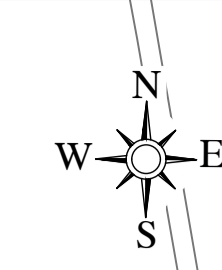


- NOTES**
- All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated
 - All Coordinates are to Irish Grid, unless otherwise noted.



Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Fencing			
Scale: 1:500 @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk
Drawn	PMcM	Checked	Approved
Date	2022-02-23	Date	Date
Project: LIF - MCA - ST1-00 - DR - C - 1500 - P1		Status code & Description: S2 - For Information	
Project Number: E2324		Status code & Description: S2 - For Information	

All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.



- Notes:**
- This drawing should be read in relation to the subject of the title. All other details illustrated on the drawing (e.g. The proposed layout) are indicative only and are subject to change. For updated details of the proposed layout and finished levels see Proposed Layout & Levels drawings.
 - The mapping illustrated on this drawing is taken from the existing topographical survey received from the client with amendments made to illustrate the proposed site layout for the scheme.
 - All storm & foul drainage designed in accordance with BS EN 752: 2008 drain and sewer systems outside buildings & The Building Regulations 2010, HM Government, Approved Document H (latest version).
 - Drainage works to be carried out in accordance with Civil Engineering Specification for the Water Industry 6th Edition; published by WRC plc 2004.
 - Manholes to be constructed from precast concrete rings (unless otherwise stated / approved) to BS EN 1917:2002 & BS 5911-3:2002 with a D400 heavy duty cover for driveway/carpark and S125 for remaining surface (in accordance with BS EN 124:1994).
 - Pipes to be uPVC to BS EN 1401-1:1998 for sizes Ø100 & Ø150mm. Pipes to be uPVC to WIS 4-35-01, for sizes Ø225 & Ø300mm.
 - Pipes for storm drainage to be Polypipe Rigidrain (or similar approved).
 - All measurements shown are in meters, and all levels are to ordnance datum unless otherwise indicated.
 - All Coordinates are to Irish Grid, unless otherwise noted.
 - For indicative location for all sewers and services please see Existing Site Services drawings. It shall be the contractor's responsibility to verify position and level prior to commencing construction. The contractor shall also be responsible for the arrangement of all necessary permits as required prior to commencement.
 - Min cover to Clay / Concrete drainage Pipes to be 1200mm under roads/footpaths and 600mm under landscaping. Min cover to Thermoplastic drainage Pipes to be 900mm under roads/footpaths and 600mm under landscaping. Where adequate cover cannot be provided pipes are to be protected with a lean mix concrete surround.
 - Changes in invert levels at a manhole (not requiring a drop manhole) shall be graded evenly through the manhole in order to avoid an abrupt change in invert level.
 - Where concrete surround is specified for pipes the pipes shall be first wrapped with an approved plastic membrane. Flexibility at joints shall be maintained by insertion of 25mm "flexcell" (or similar approved) at each joint to break the continuity of the concrete surround. However the plastic membrane shall be continuous at these locations to protect rubber jointing rings from ingress of grout. The minimum thickness of the concrete surround should be 150mm or the diameter of the pipe whichever is the greater.
 - Compressible boards to be laid between crossing pipes where cover between pipes limited.
 - Existing sewers to be maintained and kept in service at all times.
 - This drawing should be read in conjunction with proposed drainage schedule drawings, construction details drawings and all other relevant drawings.
 - All drainage channels and outfalls to be constructed in accordance with manufactures specifications.
 - All details/ dimensions to be checked by the contractor. Any discrepancies to be reported to the engineer immediately.
 - Invert levels of catchpit chambers shown denote approximate invert levels of the lowest pipe and do not include for catchpit sump depth.

LEGEND

	PROPOSED STORM SEWER
	PROPOSED FOUL SEWER
	PROPOSED PITCH DRAINAGE
	PROPOSED CHANNEL DRAINAGE
	PROPOSED PERFORATED FILTER / LAND DRAIN
	PROPOSED INFILTRATION TRENCH
	PROPOSED CHANNEL DRAINAGE OUTFALL
	PROPOSED FOUL MANHOLE
	PROPOSED STORM MANHOLE
	600mm Dia CATCHPIT CHAMBERS (LAND DRAINAGE) - 1.2m Deep
	FOUL SEWER RISING MAIN / INSPECTION CHAMBER
	PROPOSED TRAPPED GULLY
	ATTENUATION TANK / PETROL INTERCEPTOR / SOAKAWAY (REFER TO NOTES)
	PERMEABLE PAVEMENT

P3	13/04/2022	Amendments Following Stage 1 RSA	PA
P2	31/03/2022	Minor Car Park Layout Amendment	PA
Rev	Issue Date	Description	App

Status	PRELIMINARY
Client	Donegal County Council
Project	The Common, Lifford Multi-Use Development
Drawing	Proposed Drainage Overview
Scale	1:1000 @ A1

McAdam
ENHANCING LOCAL COMMUNITIES

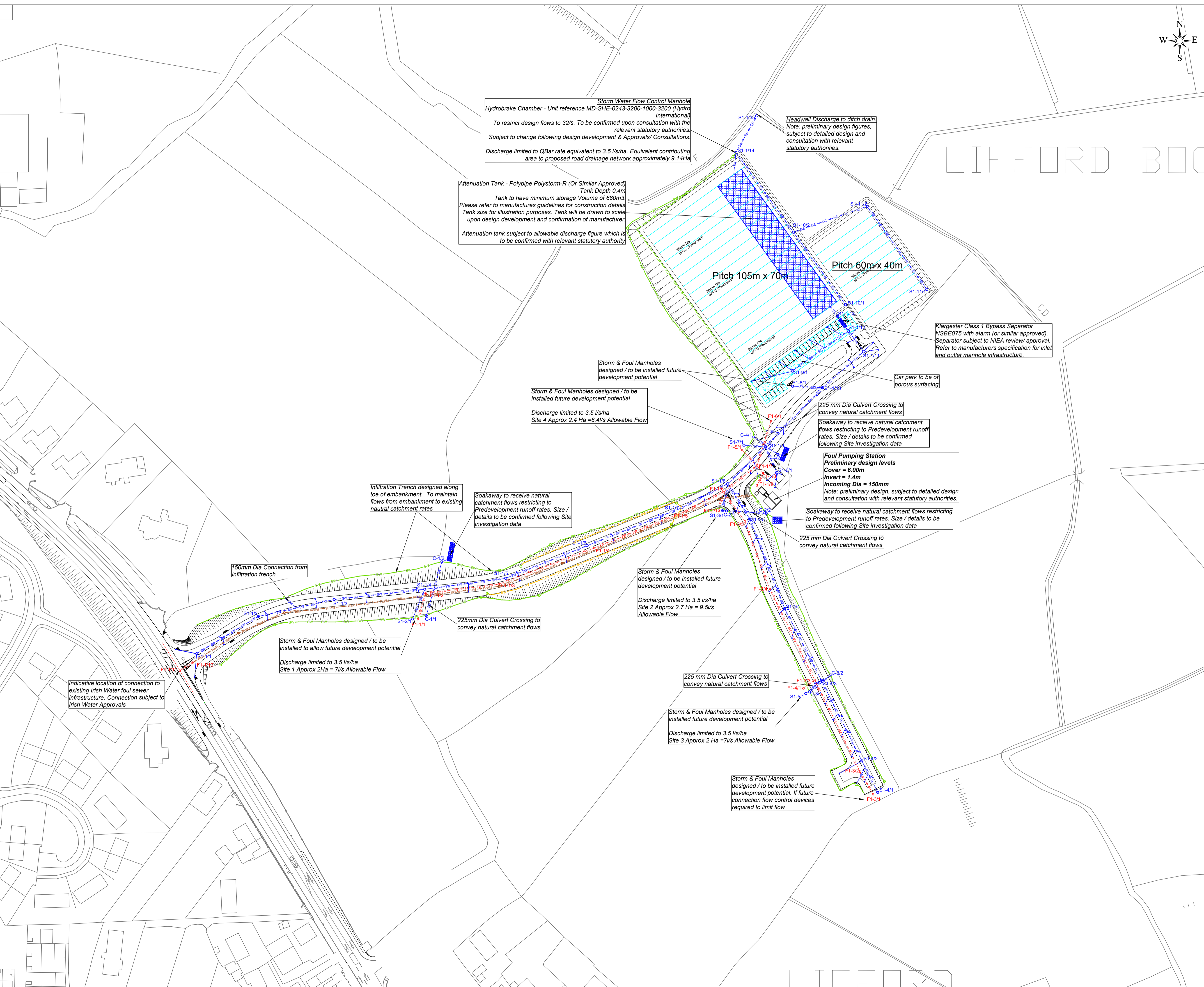
Contact Details: 1c Montgomery House, 478 Castlereagh Road, Belfast, BT5 6BQ. T: 028 9040 2000. E: admin@mcadamdesign.co.uk, www.mcadamdesign.co.uk

Drawn	DWW	Checked	PA	Approved	PA
Date	2022-03-01	Date	2022-03-01	Date	2022-03-01

Project - Organisation - Zone - Level - Type - Role - Number - Revision
LIF - MCA - ST1-00 - DR - C - 2000 - P3

Project Number: E2324
Status code & Description: S2 - For Information

All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.



Storm Water Flow Control Manhole
Hydrobrake Chamber - Unit reference MD-SHE-0243-3200-1000-3200 (Hydro International)
To restrict design flows to 32/s. To be confirmed upon consultation with the relevant statutory authorities.
Subject to change following design development & Approvals/ Consultations.
Discharge limited to QBar rate equivalent to 3.5 l/s/ha. Equivalent contributing area to proposed road drainage network approximately 9.14Ha

Headwall Discharge to ditch drain
Note: preliminary design figures, subject to detailed design and consultation with relevant statutory authorities.

Attenuation Tank - Polypipe Polystorm-R (Or Similar Approved)
Tank Depth 0.4m
Tank to have minimum storage Volume of 680m³.
Please refer to manufacturer's guidelines for construction details.
Tank size for illustration purposes. Tank will be drawn to scale upon design development and confirmation of manufacturer.
Attenuation tank subject to allowable discharge figure which is to be confirmed with relevant statutory authority

Largest Class 1 Bypass Separator
NSBE075 with alarm (or similar approved).
Separator subject to NIEA review/ approval.
Refer to manufacturer's specification for inlet and outlet manhole infrastructure.

Storm & Foul Manholes designed / to be installed future development potential

Storm & Foul Manholes designed / to be installed future development potential
Discharge limited to 3.5 l/s/ha
Site 4 Approx 2.4 Ha = 8.4l/s Allowable Flow

225 mm Dia Culvert Crossing to convey natural catchment flows
Soakaway to receive natural catchment flows restricting to Predevelopment runoff rates. Size / details to be confirmed following Site investigation data

Foul Pumping Station
Preliminary design levels
Cover = 6.00m
Invert = 1.4m
Incoming Dia = 150mm
Note: preliminary design, subject to detailed design and consultation with relevant statutory authorities.

Infiltration Trench designed along toe of embankment. To maintain flows from embankment to existing natural catchment rates

Soakaway to receive natural catchment flows restricting to Predevelopment runoff rates. Size / details to be confirmed following Site investigation data

Soakaway to receive natural catchment flows restricting to Predevelopment runoff rates. Size / details to be confirmed following Site investigation data

Storm & Foul Manholes designed / to be installed future development potential
Discharge limited to 3.5 l/s/ha
Site 2 Approx 2.7 Ha = 9.5l/s Allowable Flow

Storm & Foul Manholes designed / to be installed to allow future development potential
Discharge limited to 3.5 l/s/ha
Site 1 Approx 2Ha = 7l/s Allowable Flow

225 mm Dia Culvert Crossing to convey natural catchment flows
Storm & Foul Manholes designed / to be installed future development potential
Discharge limited to 3.5 l/s/ha
Site 3 Approx 2 Ha = 7l/s Allowable Flow

Storm & Foul Manholes designed / to be installed future development potential. If future connection flow control devices required to limit flow

Indicative location of connection to existing Irish Water foul sewer infrastructure. Connection subject to Irish Water Approvals

150mm Dia Connection from infiltration trench

225mm Dia Culvert Crossing to convey natural catchment flows

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225 mm Dia Culvert Crossing to convey natural catchment flows

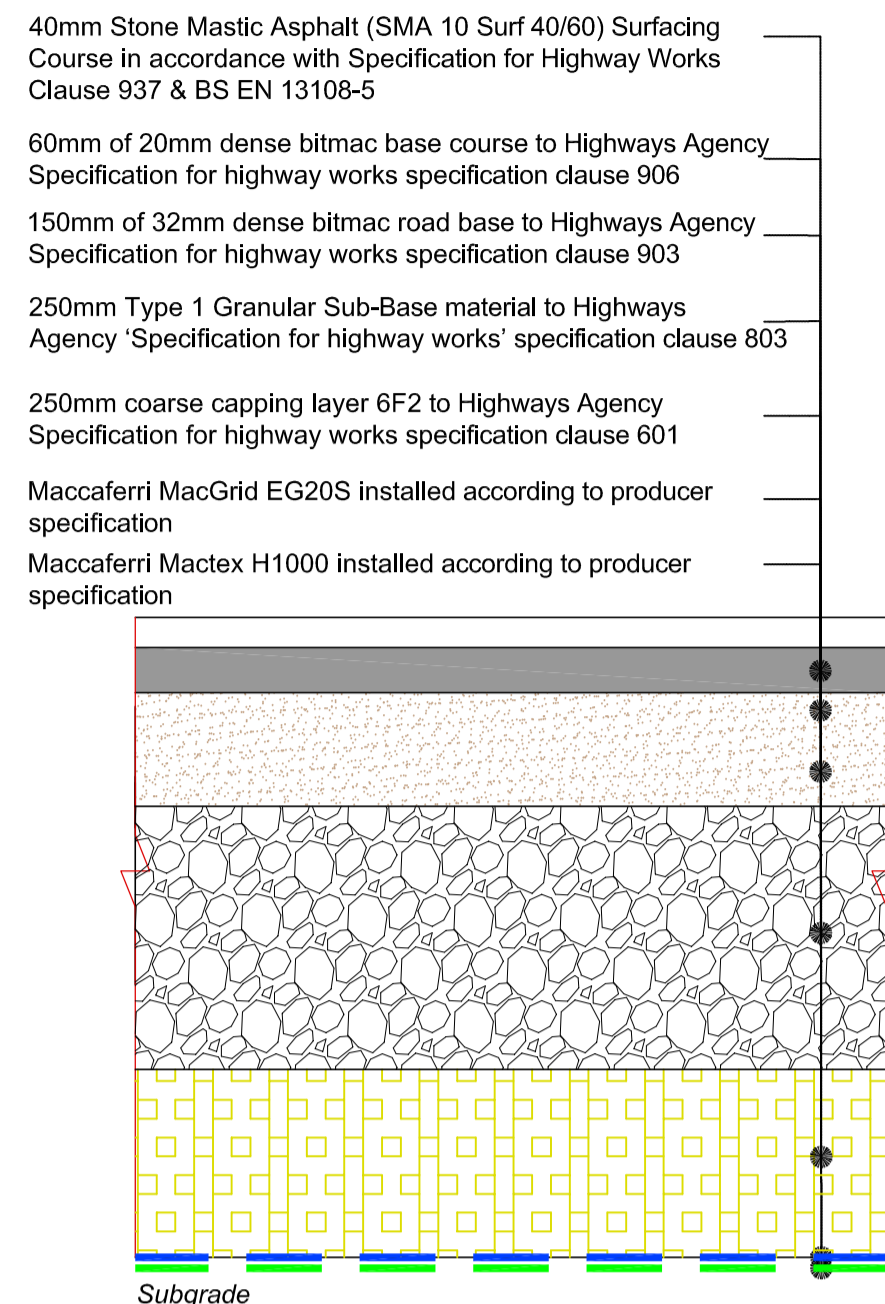
225 mm Dia Culvert Crossing to convey natural catchment flows

225 mm Dia Culvert Crossing to convey natural catchment flows

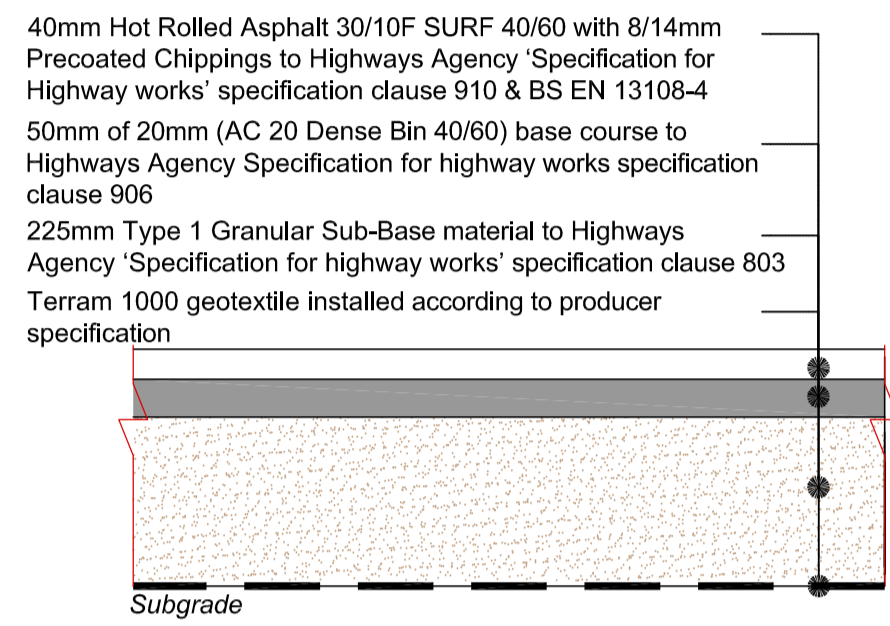
225 mm Dia Culvert Crossing to convey natural catchment flows

225 mm Dia Culvert Crossing to convey natural catchment flows

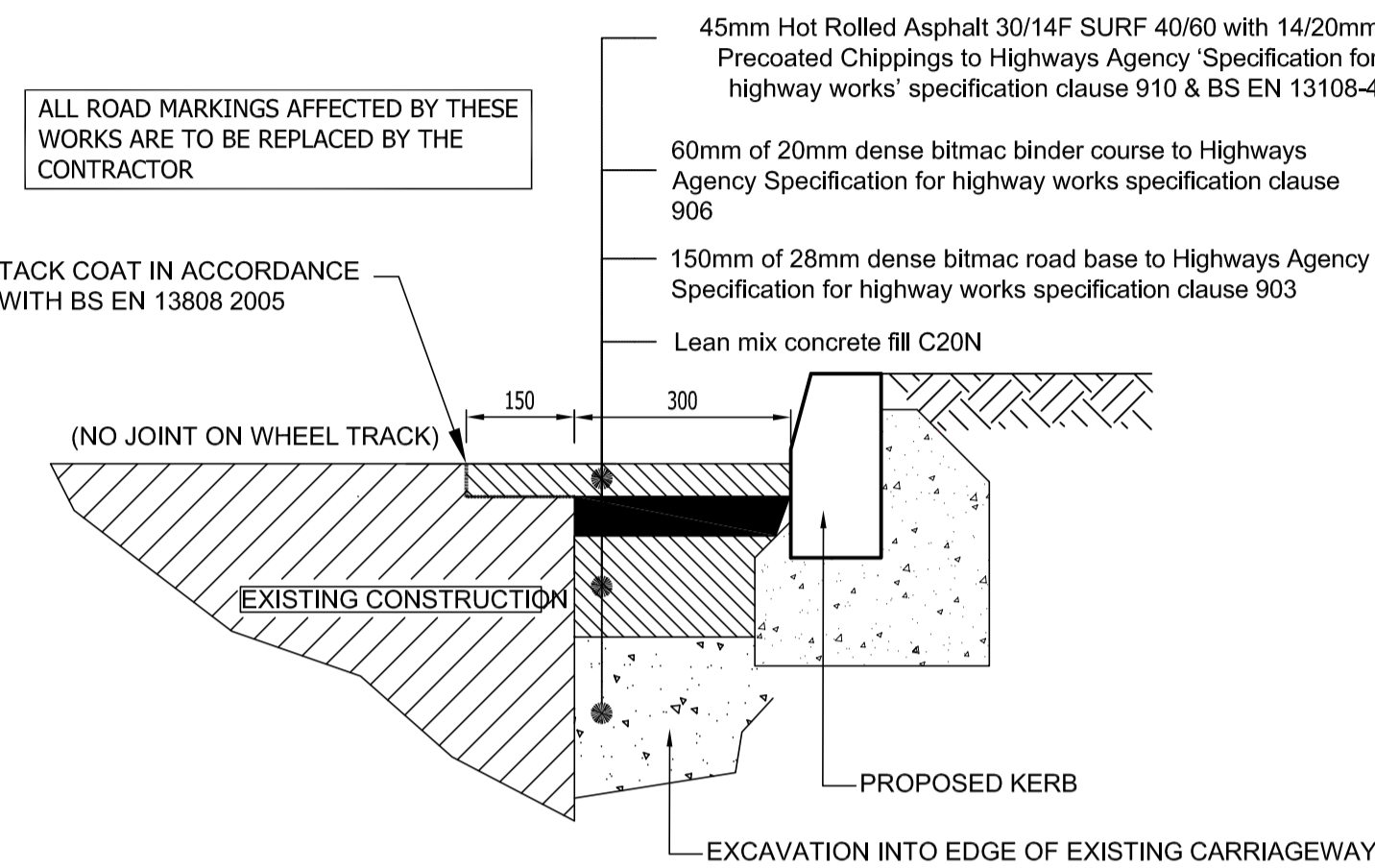
225 mm Dia Culvert Crossing to convey natural catchment flows



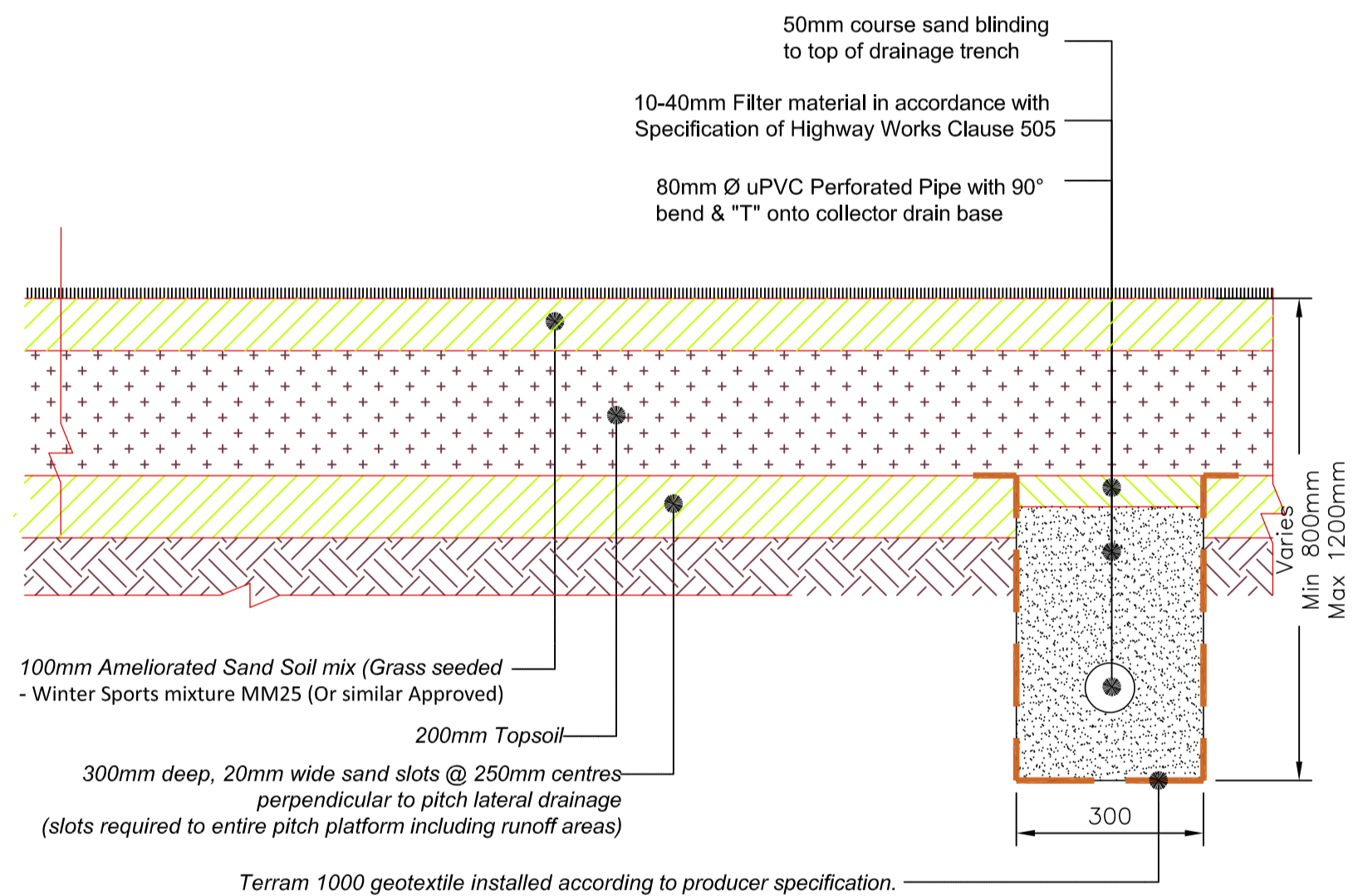
Detail 1
Vehicular Pavements - Access Roads / Car Parking
 Allowance For Servicing Vehicles / HGVs
 Formation CBR > 3%
 In-situ CBR required at formation to confirm design
 May be subject to change Depending on Site Investigation Results
 Scale 1:10



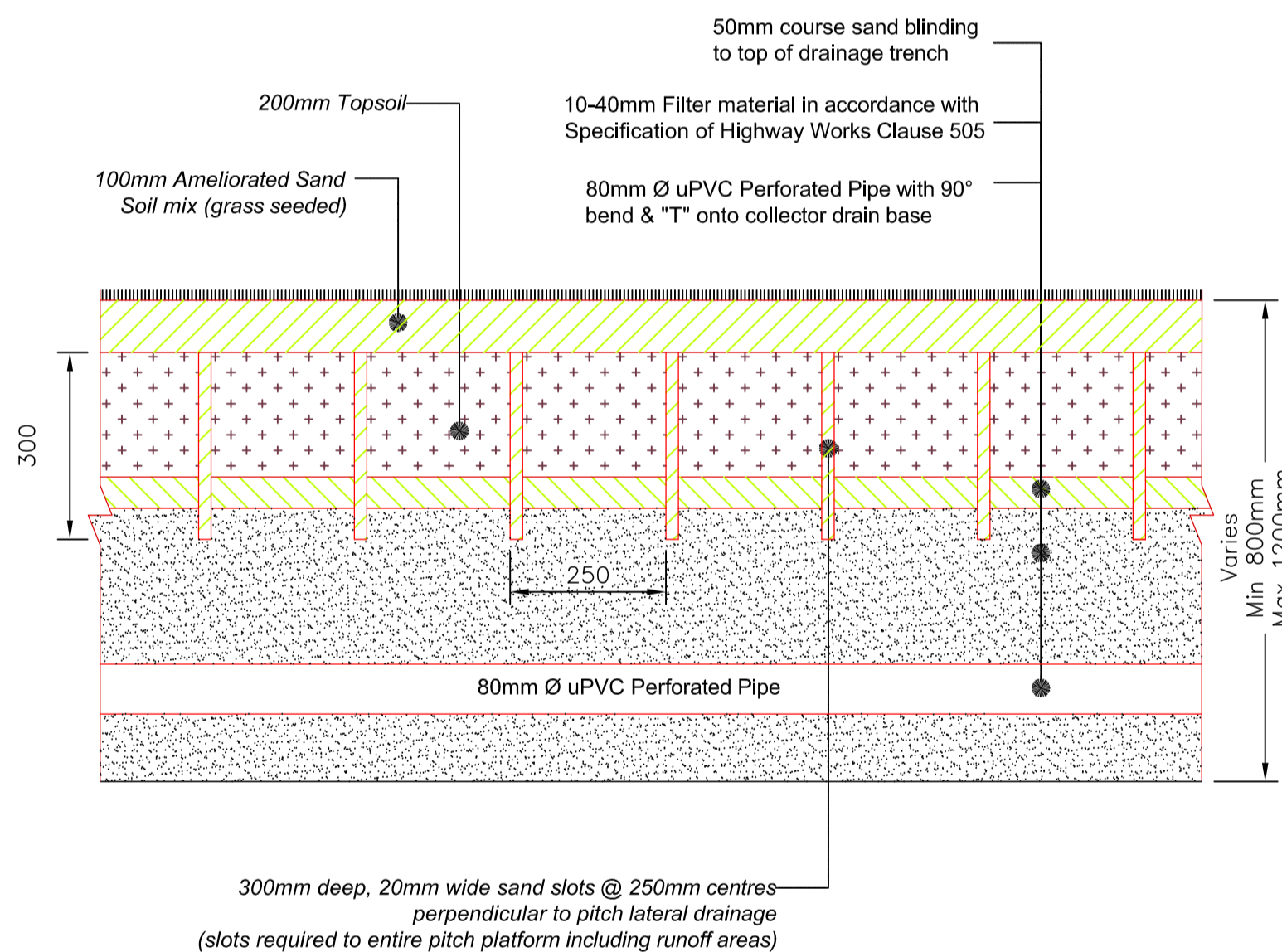
Detail 2
Pedestrian Pavements - Asphalt / Bitmac
 Formation CBR > 3%
 In-situ CBR required at formation to confirm design
 Scale 1:10



Carriageway Edge Reinstatement Detail
 Where Kerbing Replacement Necessary
 Scale 1:10



Detail 8
Natural Turf Pitch
 Scale 1:10

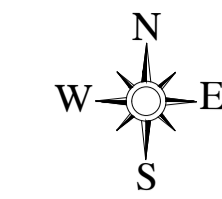
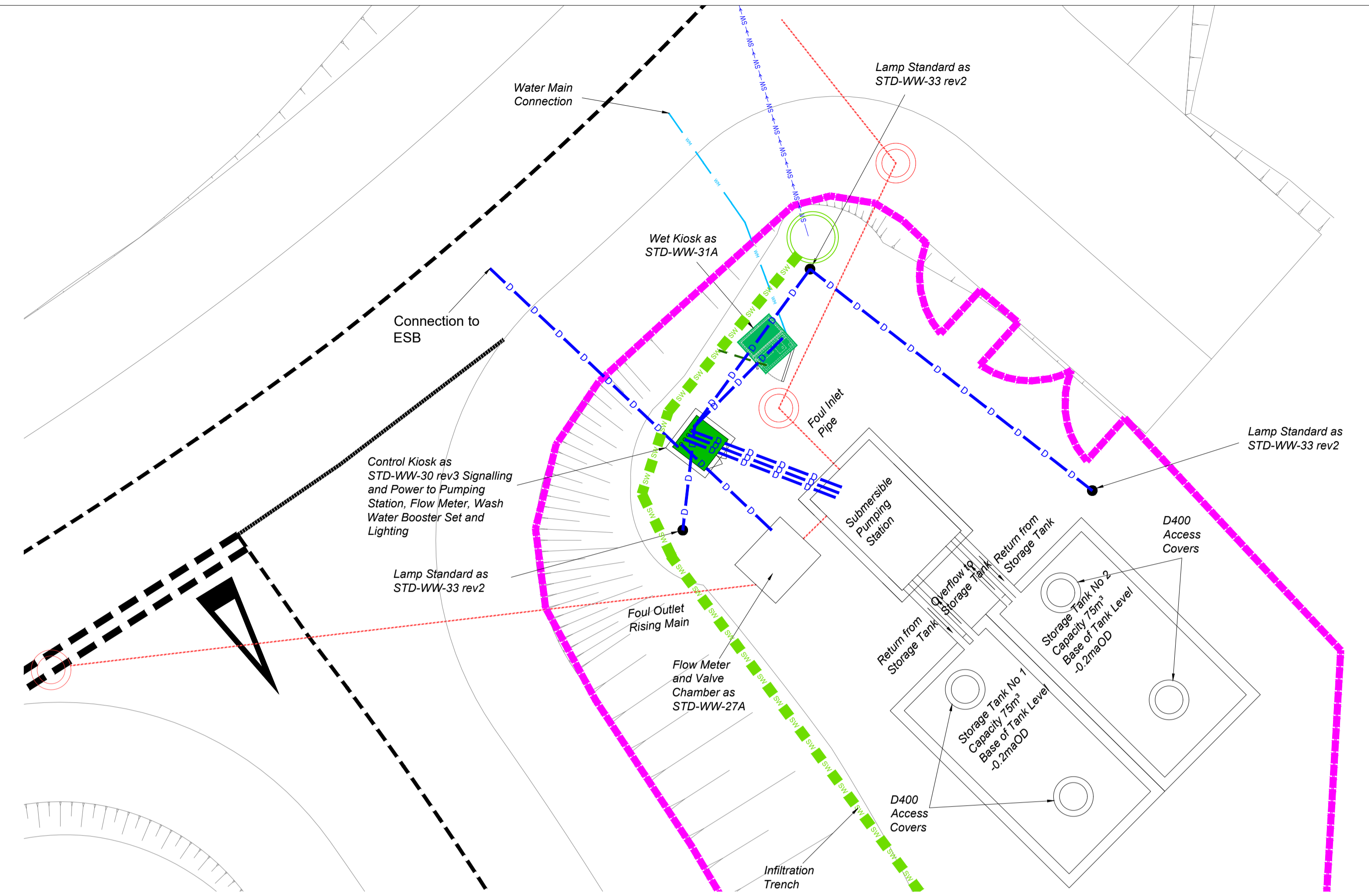
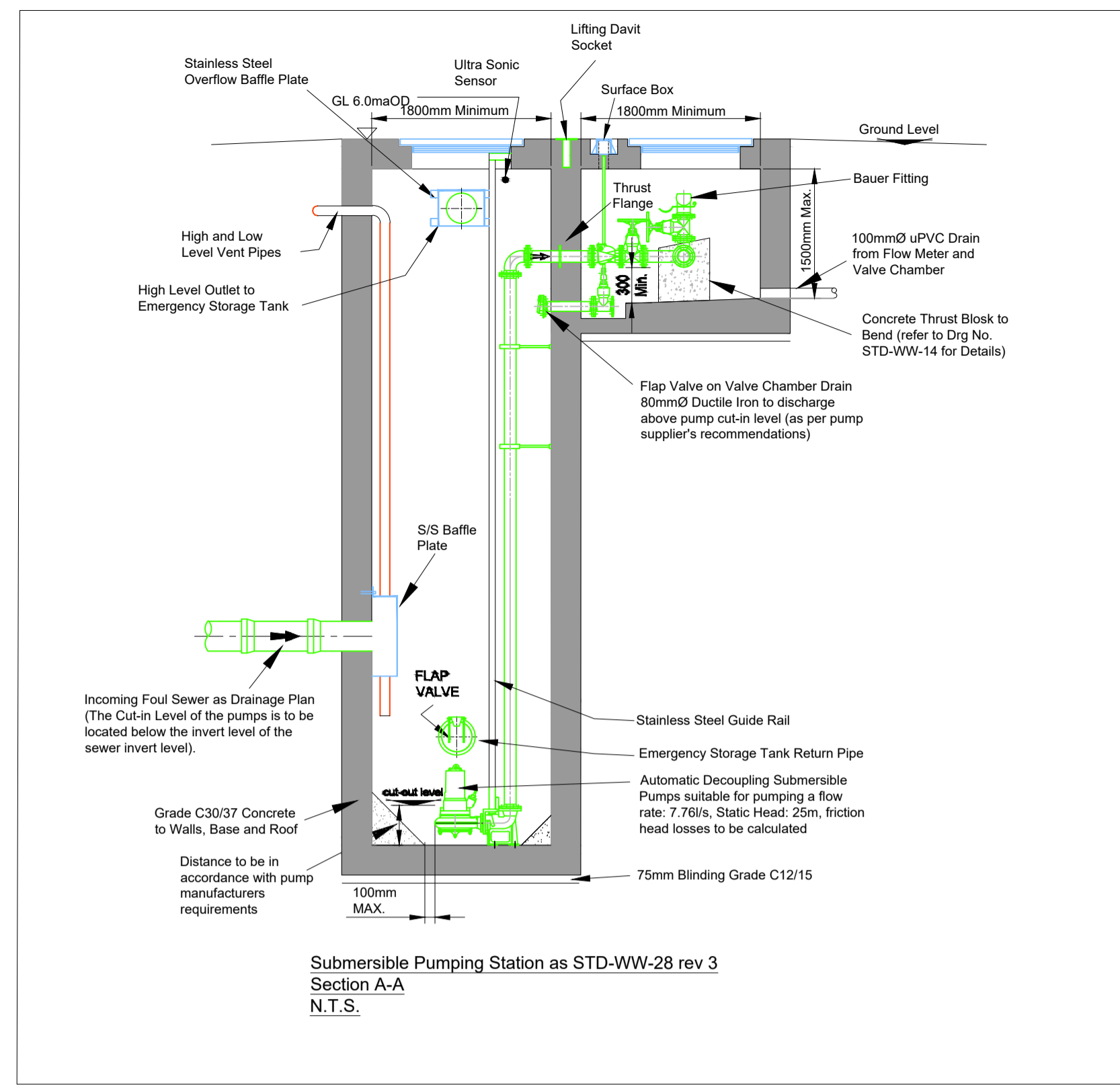


Detail 8
Natural Turf Pitch (Perpendicular to lateral drainage)
 Scale 1:10

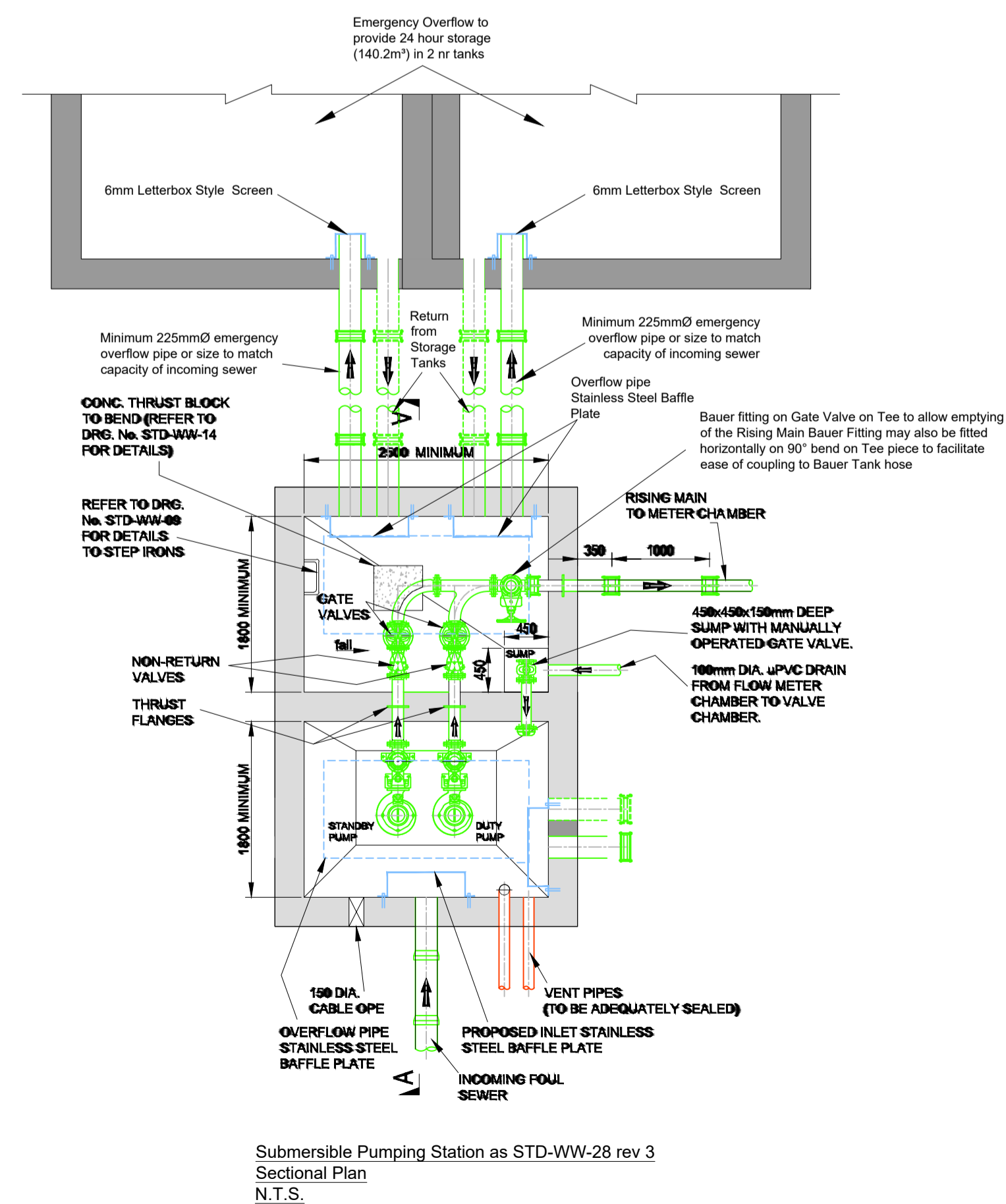
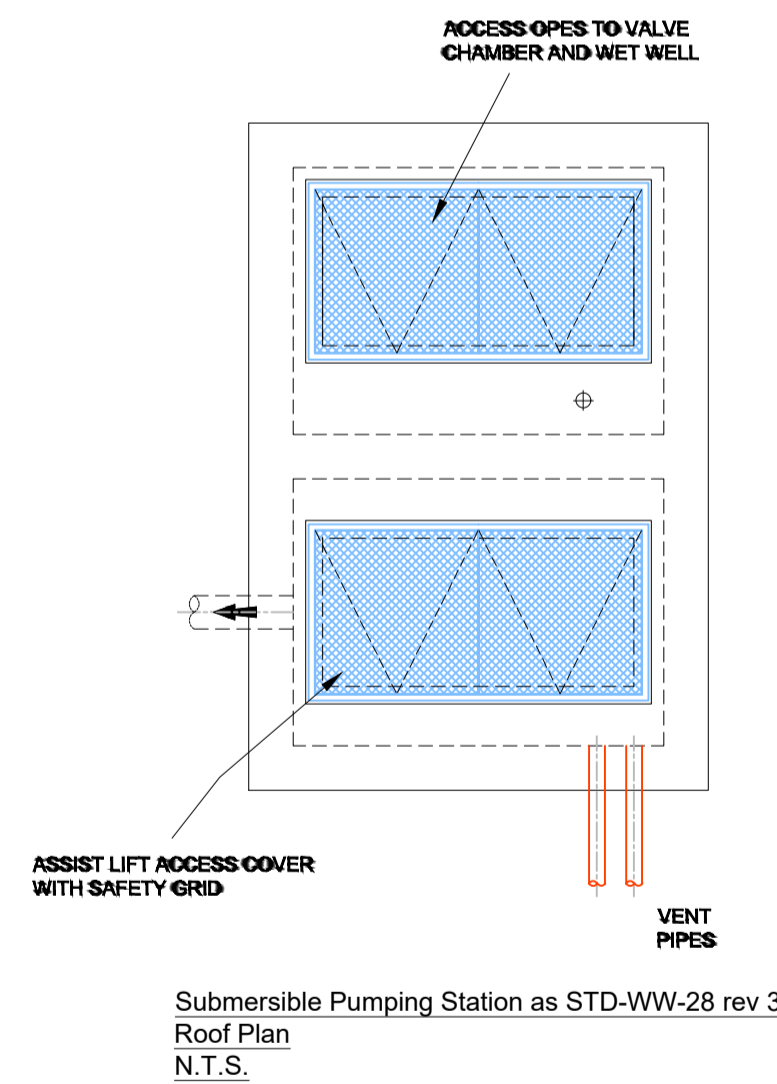
Notes:

- All dimensions are in millimeters unless stated otherwise. All levels are in meters referenced to AOD.
- This drawing should be read in conjunction with all relevant drawings (Architectural and Engineering).
- Preparation of formation levels -
 - Any soft spots should be excavated first and back-filled with suitable well-compacted material (in accordance with Specification of Highway Works Class 6F1 or 6F2).
 - The subgrade, or original ground formation, should be prepared by stripping all vegetation and topsoil, trimming to level (at least 75mm deep) and compacting, in accordance with the Specification for Highway Works, to a tolerance within +20mm to -30mm.
- California Bearing Ratios must be checked on site by completion of in-situ CBR tests prior to construction as redesign of pavement reinstatement may be necessary.
- Any filling should be carried out in layers not exceeding 150mm thickness, with each layer compacted before the next spread.
- The prepared formation shall be treated with a total weed-killer selected to minimise the risk of future weed growth within the construction.
- This drawing indicates reinstatement depths for all pavements within the proposed site. The drawing should be read in conjunction with all respective Proposed Layout Drawings.
- Materials and Workmanship to be as Civil Engineering Specification for the Water Industry 6th Edition; published by WRC plc 2004 unless otherwise stated. Drainage work generally shall be i.a.w. BS EN 752:2008.
- Should there be any discrepancy between details indicated on this drawing and those indicated on any Architect drawings this may be varied to suit manufacturer's dimensions provided minimum dimensions are maintained.
- All details illustrated are to be constructed in accordance with manufacturers specifications/ guidelines.
- All works in roads shall be carried out in accordance with the "Street Works (Northern Ireland) Order 1995." Reinstatement and opening of roads shall be carried out in accordance with the "Specification for the reinstatement of openings on roads: (2nd Edition) A Code of Practice" July 2006 issued on behalf of NIRA/ULC by the Stationery Office, Belfast.
- The Contractor shall confirm on site, the position and level of existing infrastructure including existing services prior to commencing any work.
- Any significant difference in line and level that will affect the overall design shall be referred to the Project Manager at the earliest opportunity.
- The Pavements Designs are Based on BS7533 & DMRB Volume 7, Section 2, Part 3 and Interim Advice Note 73/06. No Allowance has been made for Construction Traffic. Contractor to ensure pavement structure not affected by Construction Traffic unless otherwise indicated.
- All Pavement Construction Material Within 450mm of the Surface to be Non Frost Susceptible
- Dense Bitumen Macadam (DBM) Layer
 - DBM to be a 32mm size dense base in accordance with clause 906 of the SHW & BS EN 13108-1.
 - To be installed in accordance with BS4987-2:2003 Coated Macadam (asphalt concrete) for roads and other paved areas - Part 2: Specification for Transport, Laying and Compaction.
 - Where this layer is required to be permeable prior to installing the porous surface layers, 75mm diameter holes must be drilled through the DBM layer on an orthogonal grid of 750mm to convert the pavement to a permeable pavement. All debris must be removed from the holes in the DBM and all holes must be filled with similar coarse graded aggregate as the Layer Beneath. This will be noted on the detail if required.

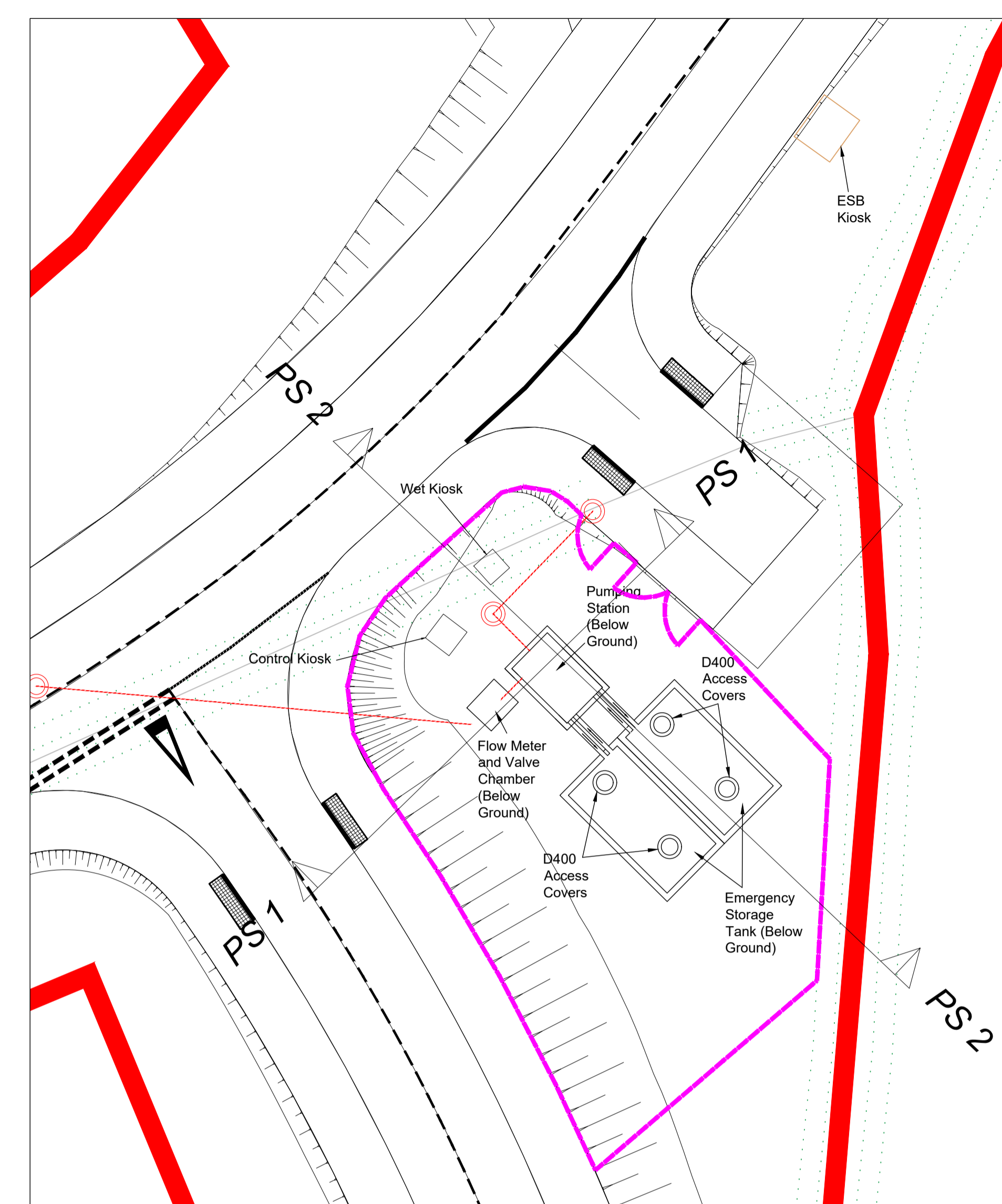
Rev	Issue Date	Description	App
Status PRELIMINARY			
Client Donegal County Council			
Project The Common, Lifford Multi-Use Development			
Drawing Construction Details Pavement Buidups			
Scale N.T.S. @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk
Drawn	PMGM	Checked	PA
Date	2022-02-24	Date	2022-02-25
Approved PA Date 2022-02-25			
Project - Organisation - Zone - Level - Type - Role - Number - Revision LIF - MCA - ST1-00 - DR - C - 3001 - P1			
Project Number E2324		Status code & Description S2 - For Information	
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			



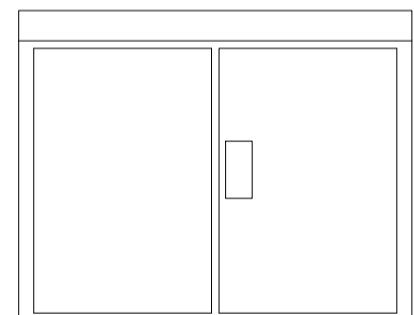
- NOTES**
- All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated
 - All Coordinates are to Irish Grid, unless otherwise noted.



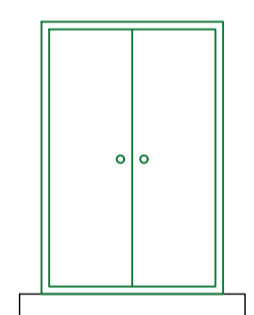
Rev	Issue Date	Description	App
Status: PRELIMINARY			
Client: Donegal County Council			
Project: The Common, Lifford Multi-Use Development			
Drawing: Proposed Foul Pumping Station Construction Details			
Scale: N.T.S. @ A1			
Contact Details		1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	
		T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk	
Drawn	PMcM	Checked	PA
Date	2022-02-24	Date	2022-02-25
		Approved	
		PA	
		Date	
		2022-02-25	
Project - Organisation - Zone - Level - Type - Role - Number - Revision			
LIF - MCA - ST1-00 - DR - C - 3100 - P1			
Project Number		Status code & Description	
E2324		S2 - For Information	
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			



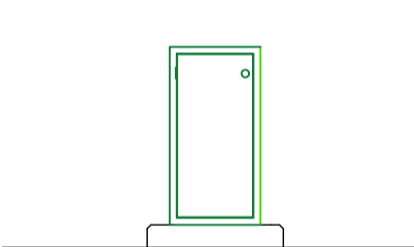
Pumping Station Layout
Scale 1:100



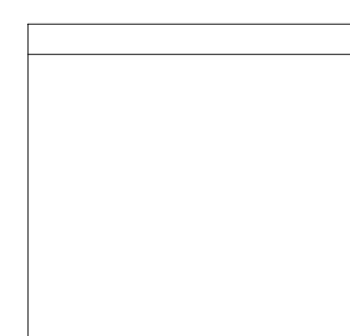
ESB Sub Station
Front Elevation
Brick / Block Render
Colour to match
surrounding area
Scale 1:50



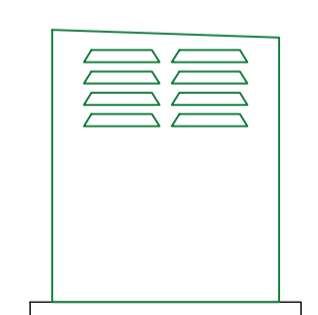
Wastewater Pumping
Station Control Kiosk
as STD-WW-30 rev3
Front Elevation
Colour: Holly Green
BS4900 14 C39
Scale 1:50



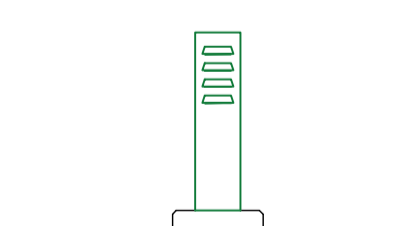
Wet Kiosk as
STD-WW-31A
Front Elevation
Colour: Holly Green
BS4900 14 C39
Scale 1:50



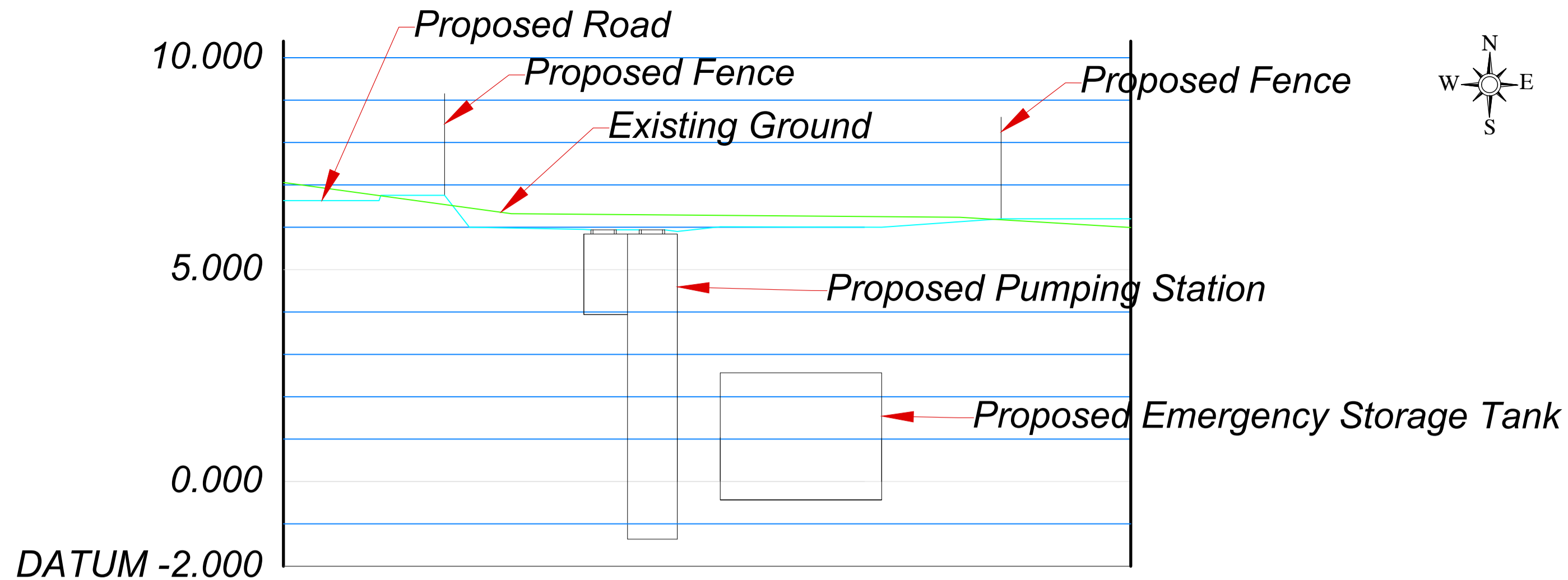
ESB Sub Station
Side Elevation
Brick / Block Render
Colour to match
surrounding area
Scale 1:50



Wastewater Pumping
Station Control Kiosk
as STD-WW-30 rev3
Side Elevation
Colour: Holly Green
BS4900 14 C39
Scale 1:50

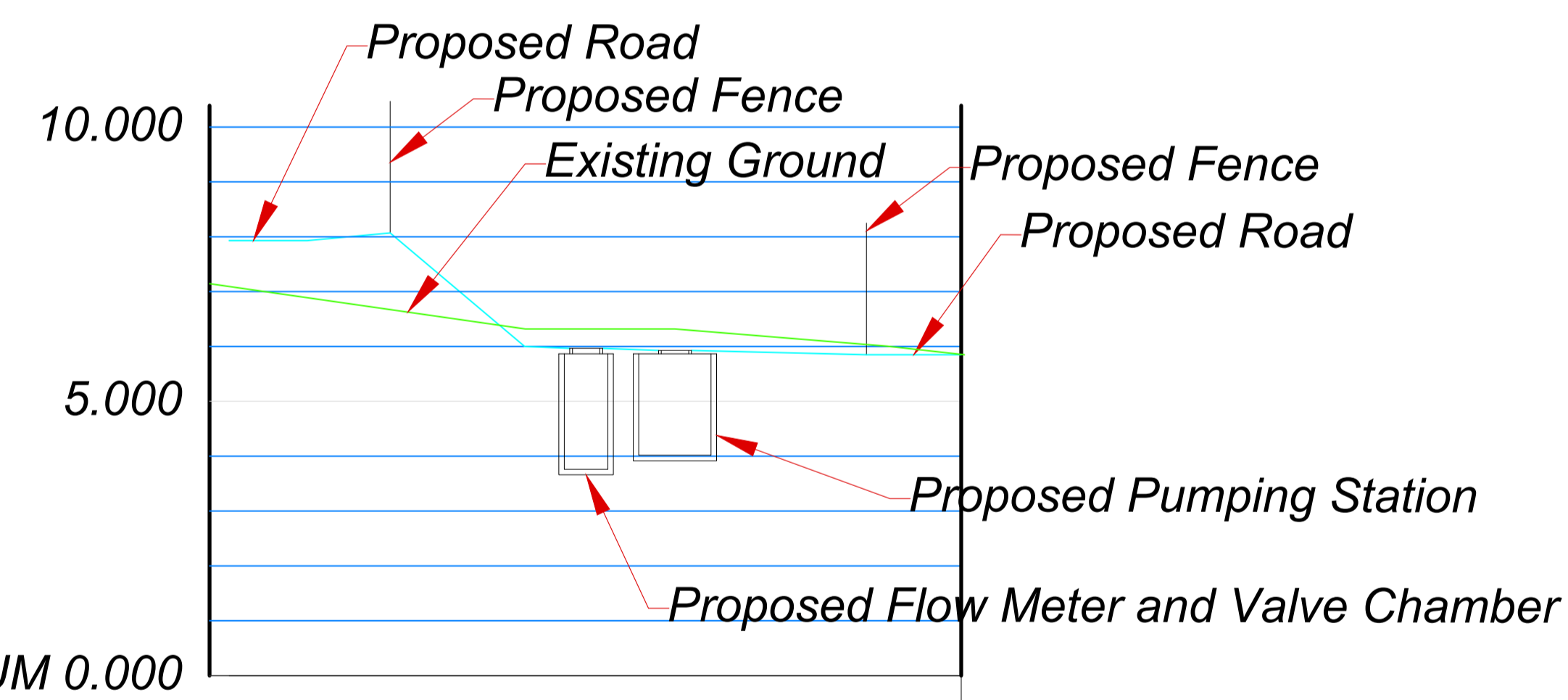


Wet Kiosk as
STD-WW-31A
Side Elevation
Colour: Holly Green
BS4900 14 C39
Scale 1:50



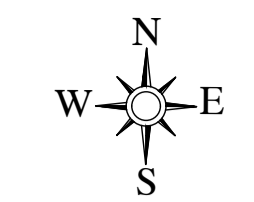
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
EXISTING LEVEL		6.976		6.320				6.235	6.130
PROPOSED 220201 LEVEL	6.630	6.755	6.755	6.000	5.938	5.938		6.200	

PS 2
Vt Scale 1:100
Hz Scale 1:100



CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	
EXISTING LEVEL		6.950	6.320	6.320		6.006	
PROPOSED 220201 LEVEL	7.930	7.930	8.070	6.000	5.966	5.927	5.850

PS 1
Vt Scale 1:100
Hz Scale 1:100



NOTES
1. All measurements shown are in metres, and all levels are to ordnance datum unless otherwise indicated
2. All Coordinates are to Irish Grid, unless otherwise noted.

Rev	Issue Date	Description	App
Status	PLANNING		
Client	Donegal County Council		
Project	The Common, Lifford Multi-Use Development		
Drawing	Proposed Foul Pumping Station		
Scale	As Shown @ A1		
Contact Details	1c Montgomery House 478 Castlereagh Road Belfast, BT5 6BQ	T: 028 9040 2000 E: admin@mcadamdesign.co.uk www.mcadamdesign.co.uk	
Drawn	PMcM	Checked	PA
Date	2022-02-24	Date	2022-02-25
Approved	PA	Date	2022-02-25
Project	- Organisation - Zone - Level - Type - Role - Number - Revision		
LIF	- MCA - ST1-00 - DR - C - 3101 - P1		
Project Number	E2324		
Status code & Description	S2 - For Information		
All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.			