

A1 A B C D E F G H J K L M N O P



E: 303941.2
N: 230229.5

ARUP <small>15000 Old Chapel Quay Dublin 9, Ireland www.arup.com Tel: +353 1 422 3863</small>		Client DLR Digital Realty Trust	Project Title DUB15-16 Profile Park Data Centre Expansion Site Development	Drawing Title Site Location
Rev P01	Date 29/06/21	By CDS	Check CDS	Appr JMAC
For Information				
Rev 280503-00	Date 28/06/21	By CDS	Check CDS	Appr JMAC
Scale 1:1000				
Role Civil				
Subsidiary For Information				
Area Job No 280503-00				
Name Site Location				
File P01				

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Campus Phasing Site Deployment

Red Flags

1. Confirmation of Watercourse re-routing tbc
2. Confirmation of Landscaping tbc following planning submission conditions
3. Confirmation of existing campus services to be diverted tbc
4. Coordination of demarcation between live DUB14 and construction area to be reviewed to not interrupt operations.



Phase 1a

- All construction works serving the 20MW snell,substructure, superstructure and underground services for the DUB15 building.
- Internal fitout of the first 10MW fundamental block & 5MW deployment, PBB and front of house areas. First Floor S210/S215
- Power provision to campus tbc

Phase 1b

- Internal fitout of the second 5MW deployment. Ground Floor S110/S115
- Power provision to campus tbc

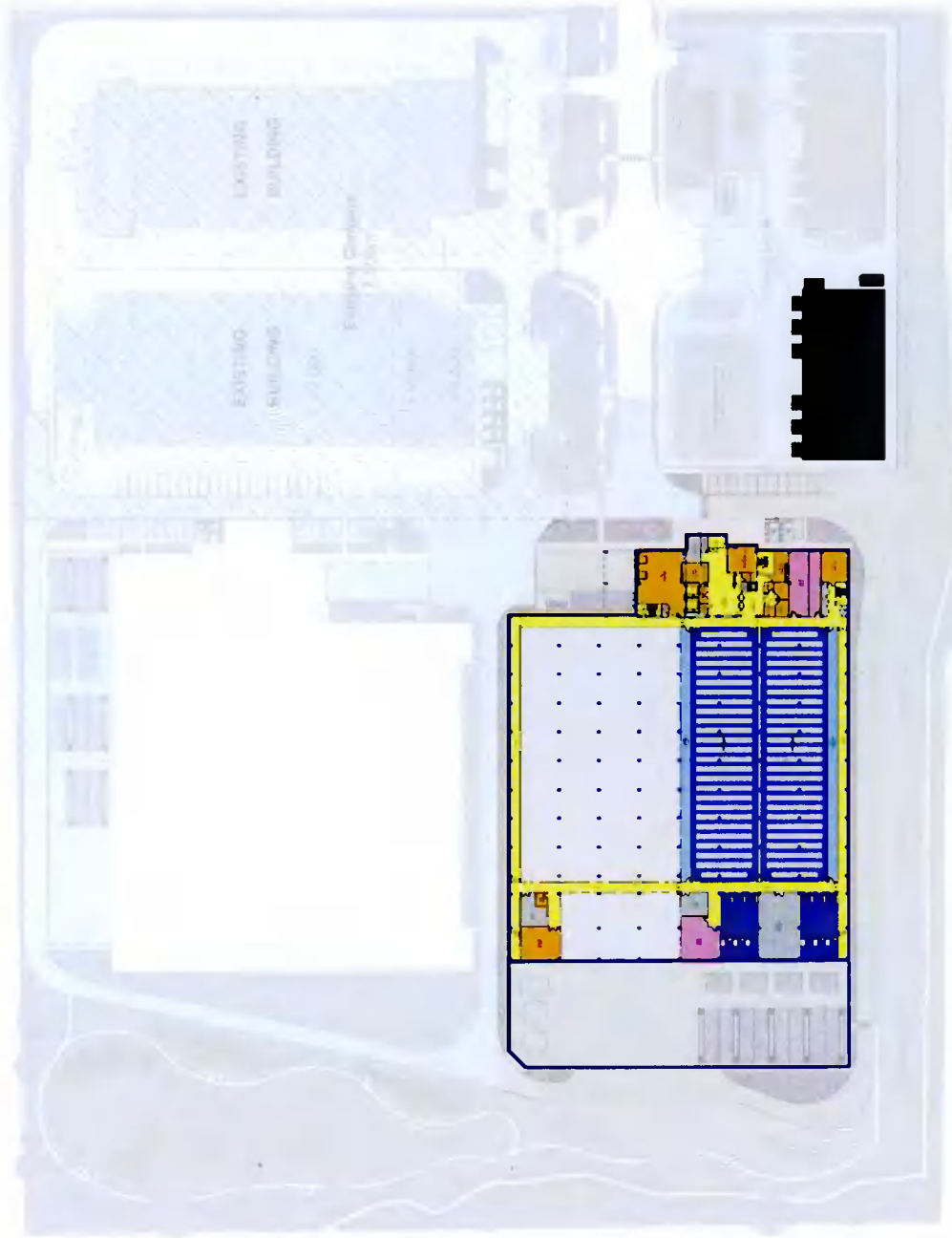


Phase 2a

- Internal fitout of the second 10MW fundamental block & 5MW deployment. First Floor S220/S225
- Power provision to campus tbc

Phase 2b

- Internal fitout of the second 5MW deployment. Ground floor S120/S125

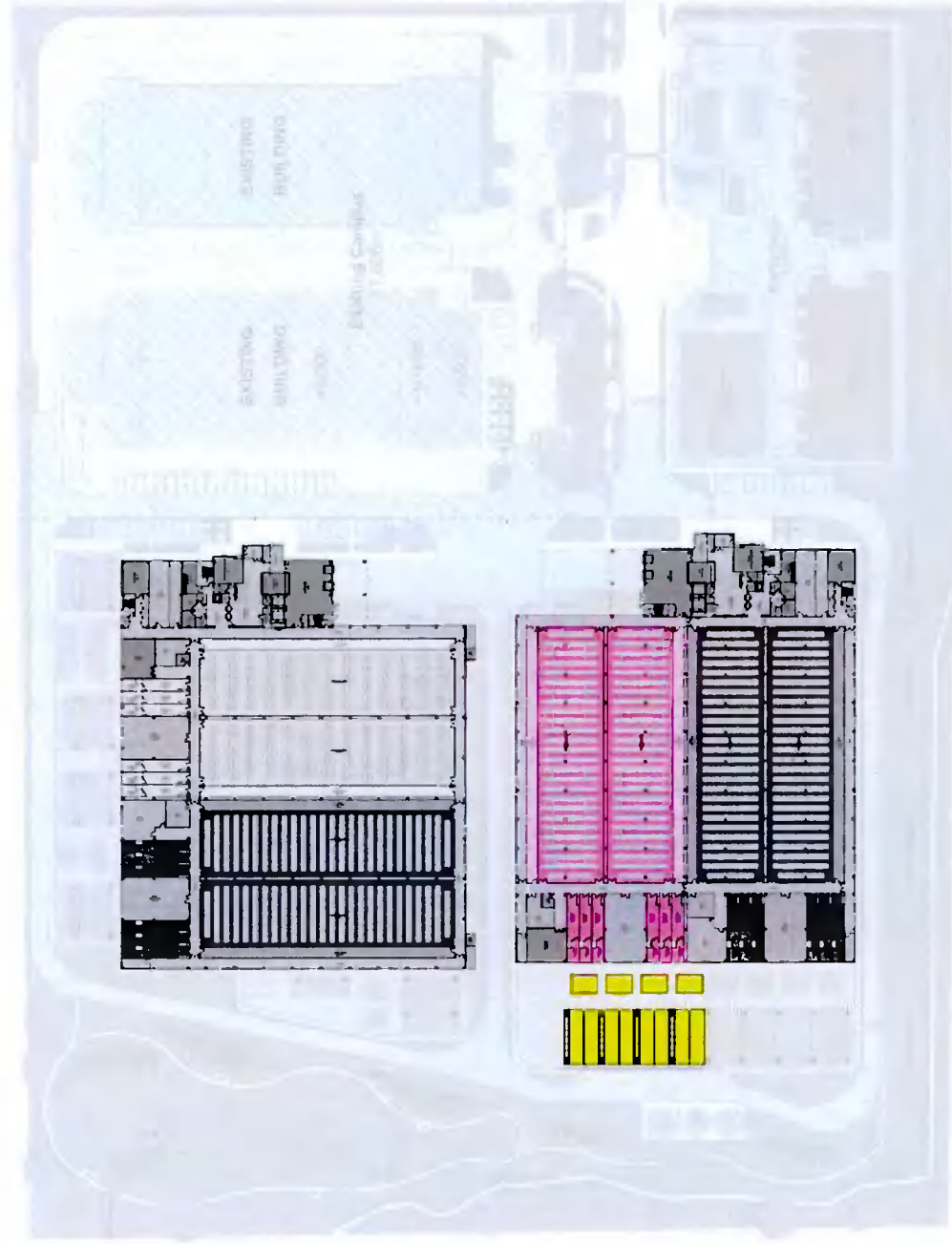


Phase 3a

- All construction works serving the 20MW shell, substructure, superstructure and underground services for the DUB16 building.
- Internal fitout of the first 10MW fundamental block & 5MW deployment, PBB and front of house areas. First Floor S210/S215.
- Power provision to campus tbc

Phase 3b

- Internal fitout of the second 5MW deployment. Ground Floor S110/S115.
- Power provision to campus tbc



Phase 4a

- Internal fitout of the second 10MW fundamental block & 5MW deployment. First Floor S220/S225
- Power provision to campus tbc

Phase 4b

- Internal fitout of the second 5MW deployment. Ground Floor S120/S125

A1 1 2 3 4 5 6 7 8 9 10

P O N M L K J I H G F E D C B A



Notes:

- All other interceptors catching for runoff from generator yards and retaining areas to be full accordance with standards and details.
- All manholes immediately upstream of catchment to be provided with level alarms and to terminate in agreed services or staff reception (to be agreed with client and architect). All interceptors to be vented to atmosphere.
- Gully discrepancy valves (GDV) are required to be provided with concrete bed and transformers.
- Proposed drainage to be coordinated with design team; contractor to allow for power supply and ducting as necessary. Interceptors serve connecting areas based on compounding.
- This drawing is to be read in conjunction with

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Client: Digital Netherlands VIII B.V. (Netherlands)

Project No: INXN DUB15/16

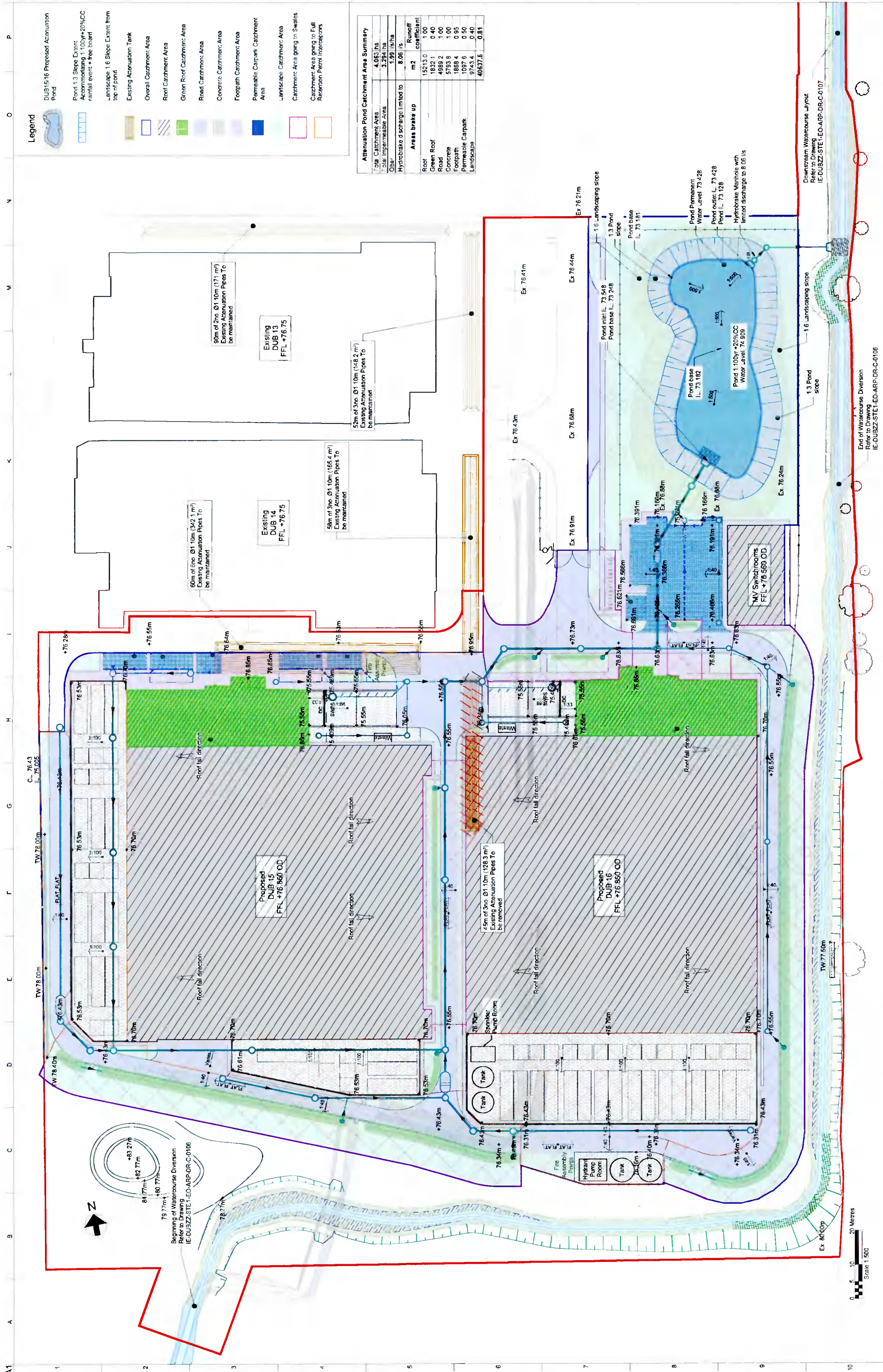
Drawing No: Proposed Surface Water Drainage Layout

Scale: 1:500

Rev: C03

App No: 280503-00

Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0104



Legend

- DUB 15/16 Proposed Attenuation Pond
- Pond 1:3 Slope Extent: Accommodating 100yr-20%CC rainfall event: + free board
- Landscape 1:6 Slope Extent from top of pond
- Existing Attenuation Tank
- Overall Catchment Area
- Roof Catchment Area
- Green Roof Catchment Area
- Road Catchment Area
- Concrete Catchment Area
- Footpath Catchment Area
- Pervious Carpark Catchment Area
- Landscape Catchment Area
- Catchment Area going to Swales
- Catchment Area going to Full Retention Perv Interceptors

Attenuation Pond Catchment Area Summary

Total Catchment Area	4,063 ha		
Total Imperviable Area	3,294 ha		
Overhead	1.99 l/s/ha		
Hydrant discharge limited to	8.06 l/s		
Areas break up			
Roof	15213.0	Runoff coefficient	1.00
Green Roof	1832.1		0.40
Road	4989.2		1.00
Concrete	5793.6		1.00
Footpath	1869.4		0.95
Pervious Carpark	1097.6		0.50
Landscape	9743.6		0.40
	40637.5		0.81

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Client: Digital Netherlands VIII B.V. (Netherlands)

Project Title: INXN DUB15/16

Proposed Surface Water Attenuation Catchment Areas

Scale: 1:500

Author: Civil

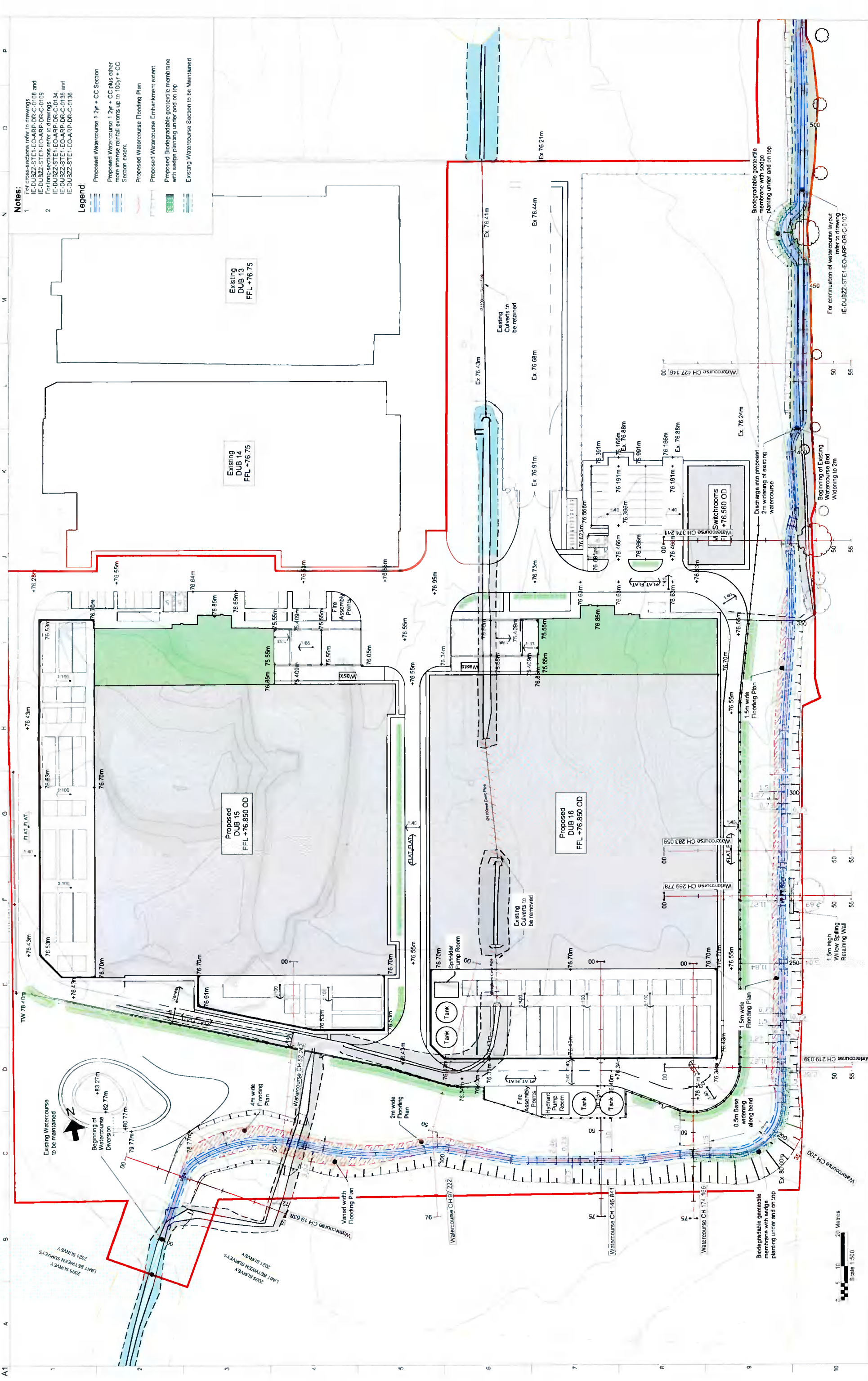
Submittal: Planning RTI Response

Area No: 280503-00

Rev: C03

Project Name: IE-DUBZZ-STE1-E0-ARP-DR-C-0105

C03	14/03/22	CDS	CDS	JMAC
Issued for Planning RTI Response				
C02	04/02/22	CDS	CDS	JMAC
Issued for Planning RTI Response				
C01	28/07/21	DF	CDS	JMAC
Issued for Planning				
Rev	Date	By	Check	App'd



- Notes:**
- For cross sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0108 and IE-DUBZZ-STE1-EO-ARP-DR-C-0109
 - For longitudinal sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0134, IE-DUBZZ-STE1-EO-ARP-DR-C-0135, and IE-DUBZZ-STE1-EO-ARP-DR-C-0136

- Legend**
- Proposed Watercourse 1.2yr + CC Section
 - Proposed Watercourse 1.2yr + CC plus other more extensive initial events up to 100yr + CC Section extent
 - Proposed Watercourse Flooding Plan
 - Proposed Watercourse Embankment extent
 - Proposed Biodegradable geotextile membrane with sedge planting under and on top
 - Existing Watercourse Section to be Maintained

Scale: A1 1:500
 Date: 28/07/21
 Project No: 280503-00
 Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0108

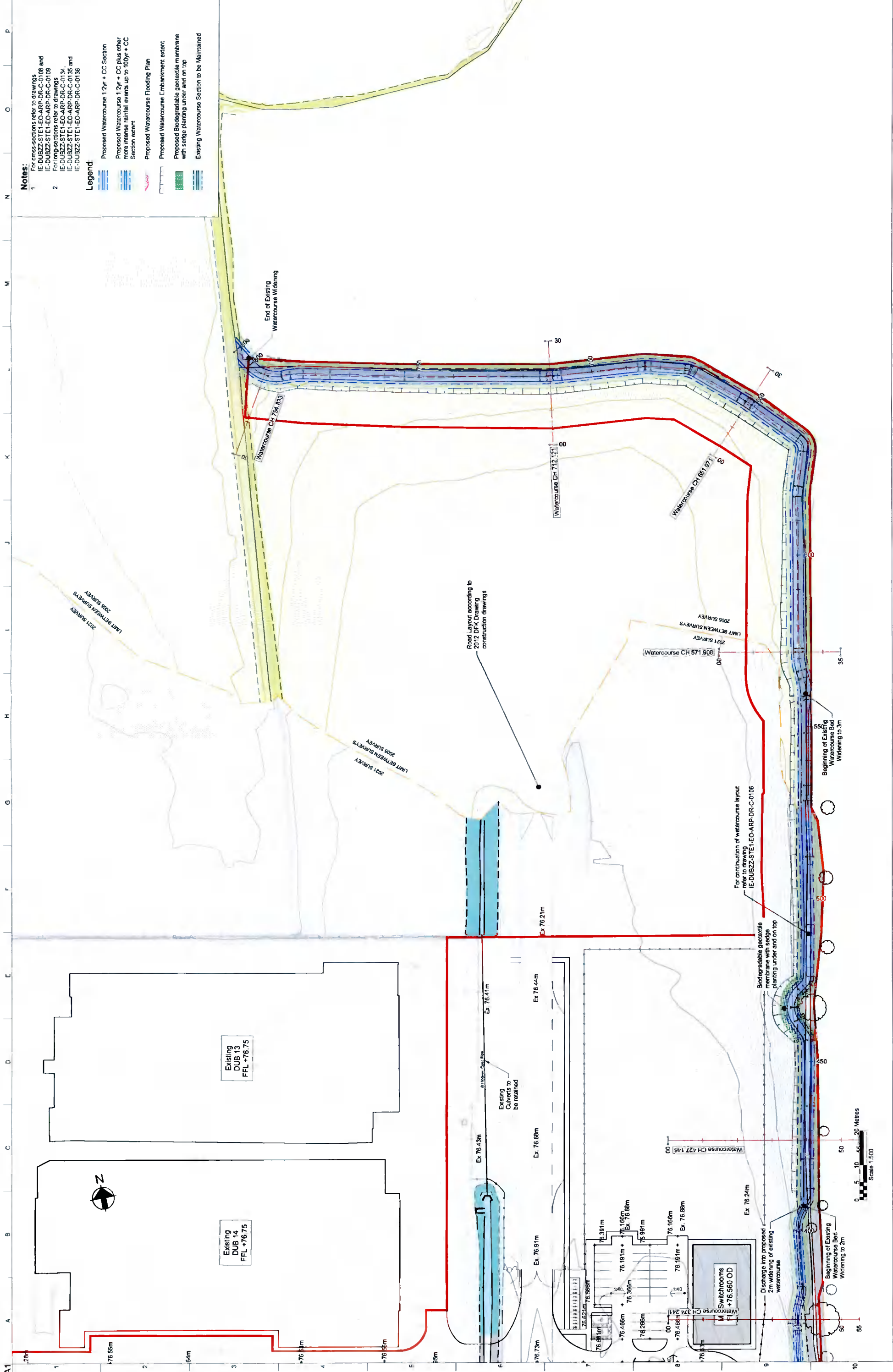
Project Title: Proposed Watercourse Diversion Layout Plan View Sheet 1 of 2

Client: Digital Netherlands VIII B.V. (Netherlands)
 Project Ref: INXN DUB15/16

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C03	14/03/22	CDS	JMAC	JMAC
C02	04/02/22	CDS	MD	JMAC
C01	28/07/21	CDS	JMAC	JMAC
		Issued for Planning RTI Response		
		Issued for Planning		

Scale: 1:500
 0 10 20 Metres



Notes:
 1 For cross-sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0108
 2 For cross-sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0134, IE-DUBZZ-STE1-EO-ARP-DR-C-0135 and IE-DUBZZ-STE1-EO-ARP-DR-C-0136

- Legend**
- Proposed Watercourse 1.2yr + CC Section
 - Proposed Watercourse 1.2yr + CC plus other more intense rainfall events up to 100yr + CC Section variant
 - Proposed Watercourse Flooding Plan
 - Proposed Watercourse Embankment: extant
 - Proposed Biodegradable geotextile membrane with sedge planting under and on top
 - Existing Watercourse Section to be Maintained

Scale: A1 1:500

Role	Chief
Summary	Planning RFI Response
Alt. Job No.	280503-00
Rev	C03
Name	IE-DUBZZ-STE1-EO-ARP-DR-C-0107

Project Title
Proposed Watercourse Diversion Layout Plan View
 Sheet 2 of 2

Client
Digital Netherlands VIII B.V. (Netherlands)



CD3	14/03/22	CDS	JMAC	
CD2	04/02/22	CDS	JMAC	
CD1	28/07/21	CDS	JMAC	
Rev	Date	By	Chief	Appr

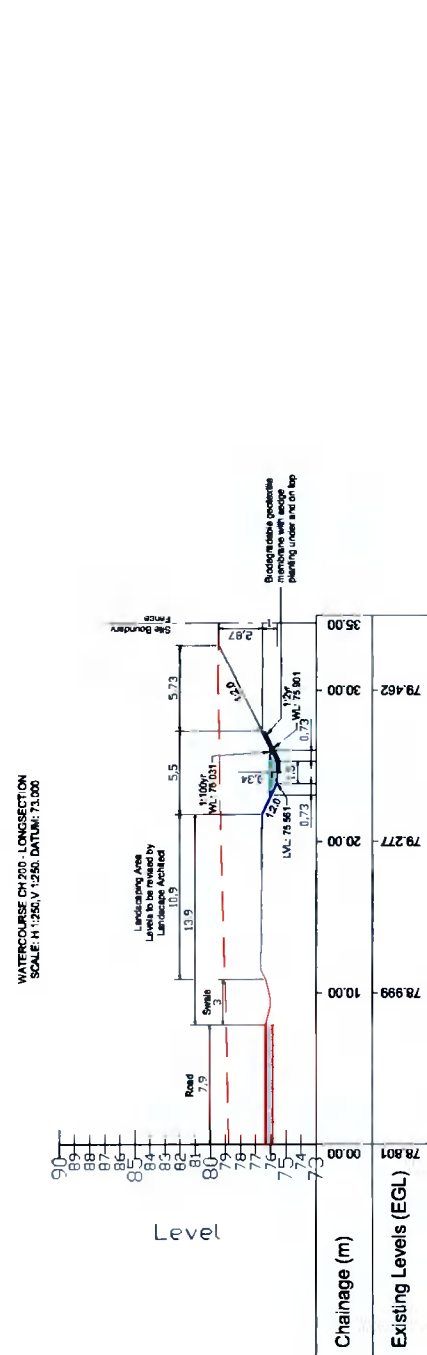
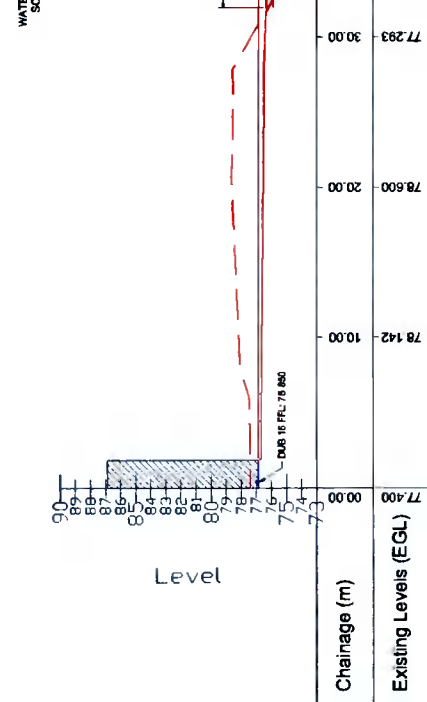
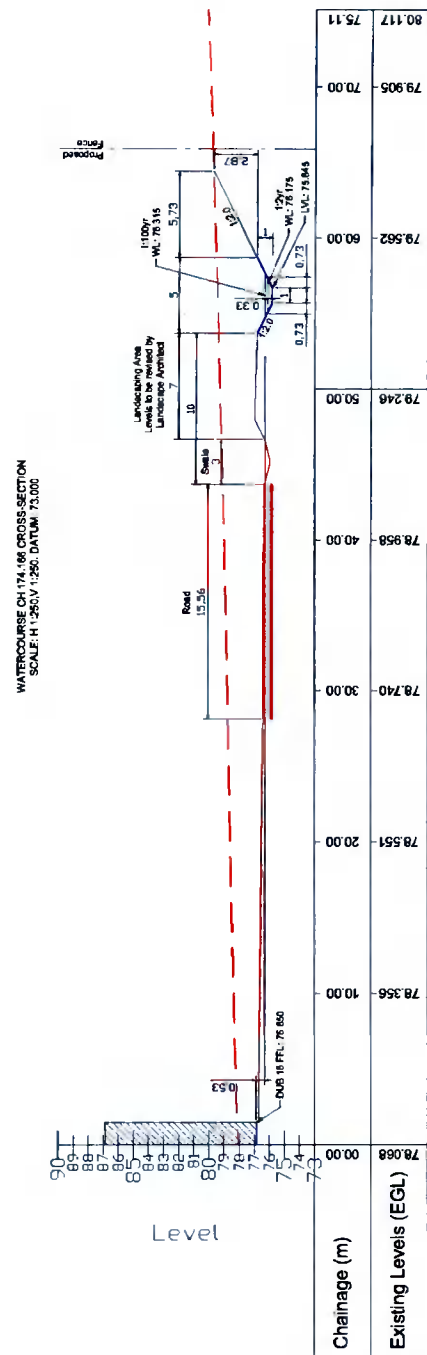
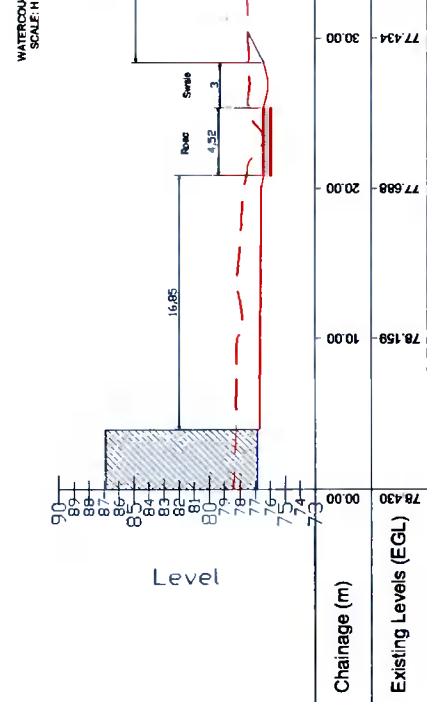
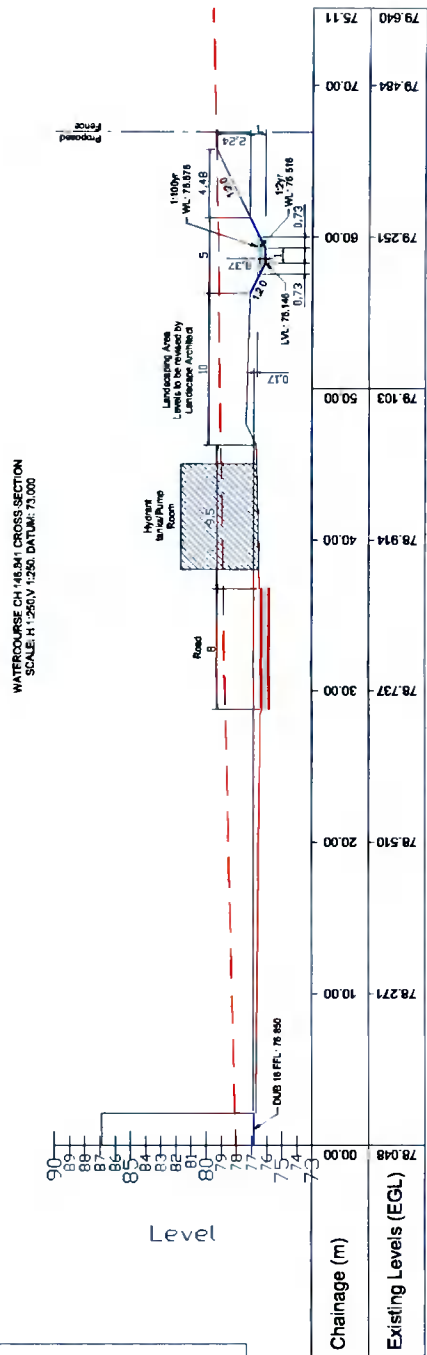
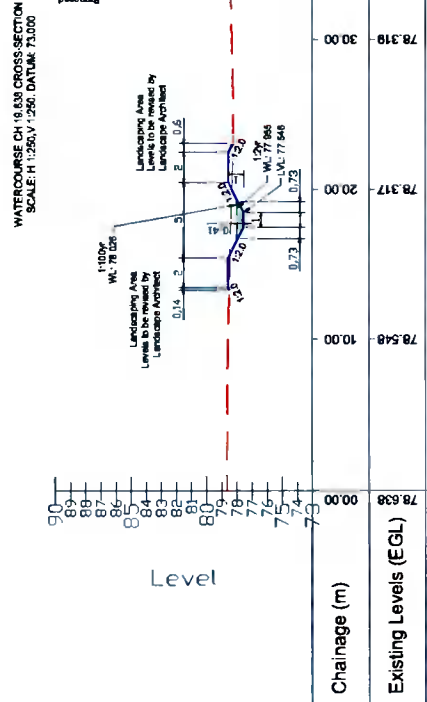
For continuation of watercourse layout refer to drawing IE-DUBZZ-STE1-EO-ARP-DR-C-0106

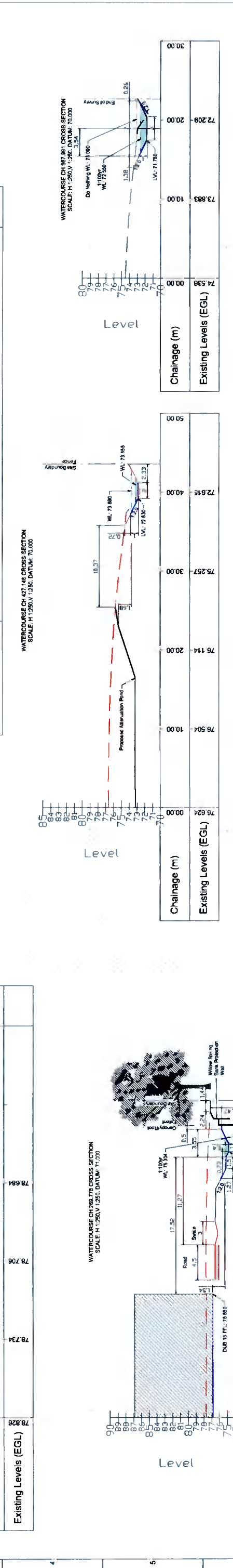
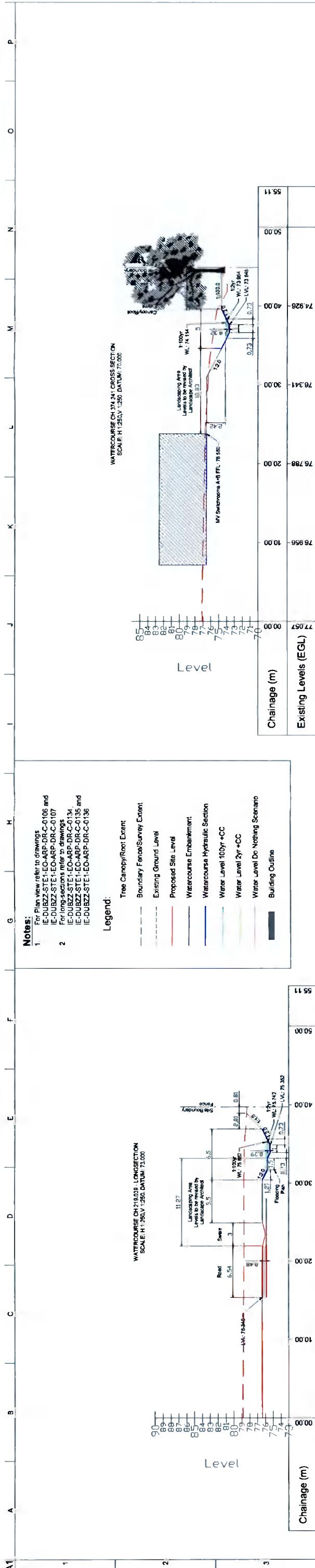
A1 1 2 3 4 5 6 7 8 9 10 P O N M L K J I H G F E D C B A

Notes:
 1. For Plan view refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0108 and IE-DUBZZ-STE1-EO-ARP-DR-C-0107.
 2. For Long sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0134 and IE-DUBZZ-STE1-EO-ARP-DR-C-0135 and IE-DUBZZ-STE1-EO-ARP-DR-C-0136.

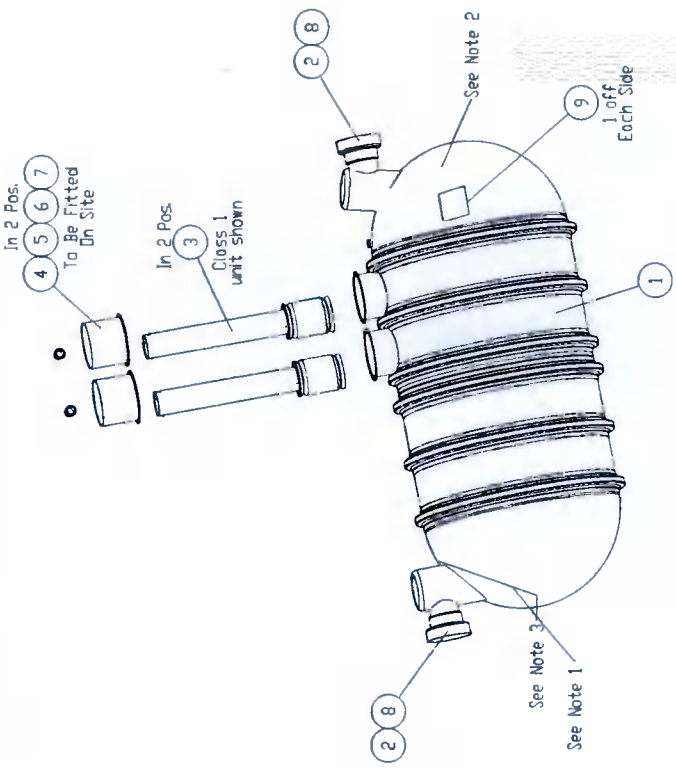
Legend:

- Tree Canopy/Root Extent
- Boundary Fence/Survey Extent
- Existing Ground Level
- Proposed Site Level
- Watercourse Embankment
- Watercourse Hydraulic Section
- Water Level 100yr +CC
- Water Level 2yr +CC
- Water Level Do Nothing Scenario
- Building Outline





- Notes:-
- "INLET" to be stencilled adjacent to inlet pipework. Lettering to be legible.
 - "OUTLET" to be stencilled adjacent to outlet pipework. Lettering to be legible.
 - "DESCRIPTION", "DATE BUILT", "DATE TESTED" & "W/D NUMBER" to be completed onto a Data Label and fitted to the side of the main tank. Lettering to be legible.



ITEM NO.	PART NUMBER	DESCRIPTION	Default Qty
4	101326	600 Diameter Flanged Neck 640 mm Long	2
5	013786	GRDNKCT 100MM C/W 10MM THK DAT	2
6	013612	4 inch PVCu Pipe - 200mm	2
7	G245	9600 Mastic Kit	2
8	R-30RY-0010	Hard Lockwate - Unfilled	See RefDs

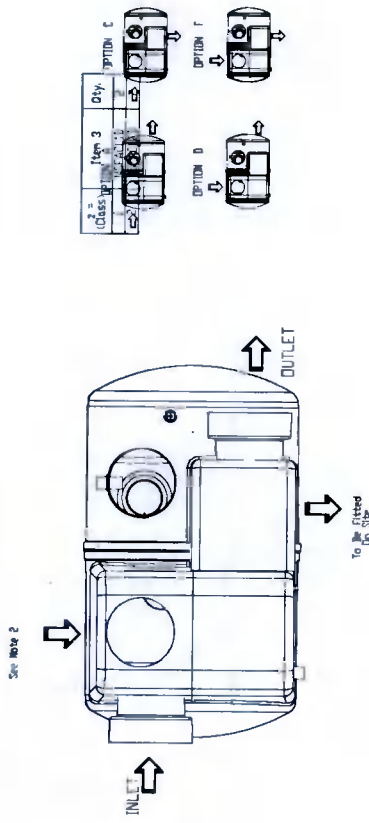
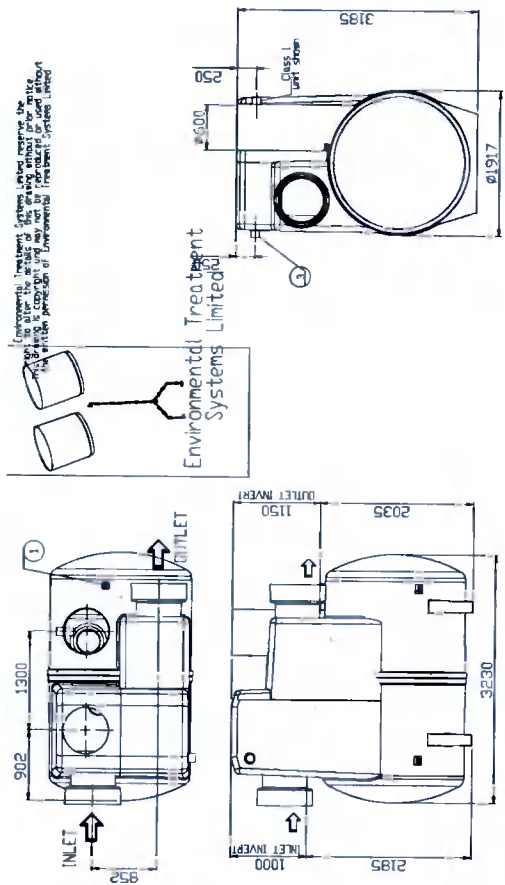
Z = (Class)	Item 3 Qty.	
1	NSFACLD10	2
2	NSFACLD20	2

X = (Pipe Size)	Item 2 Qty.	Item 8 Qty.
H	100704	2
K	100705	2
M	100706	2
N	100707	2

For pipe orientation options (y) See sheet 2

W = (Alarm Type)	Item 1
A	NSFACASE100A

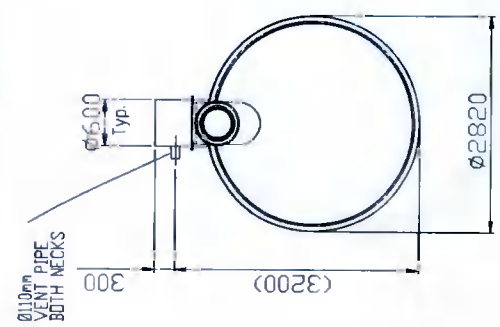
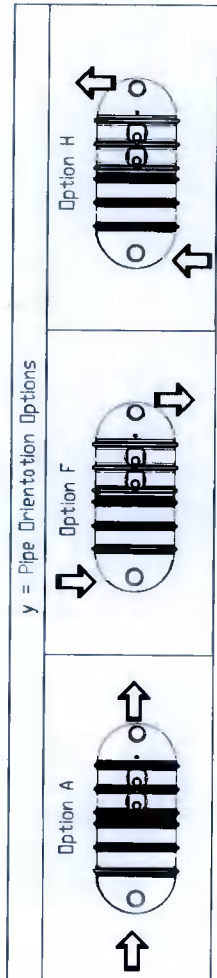
V = (Brand)	Item 9
K	NSFALABELK
T	NSFALABELT
C	NSFALABELC
E	NSFALABELE
I	NSFALABELI
L	NSFALABELL (No Branding)
P	NSFALABELP



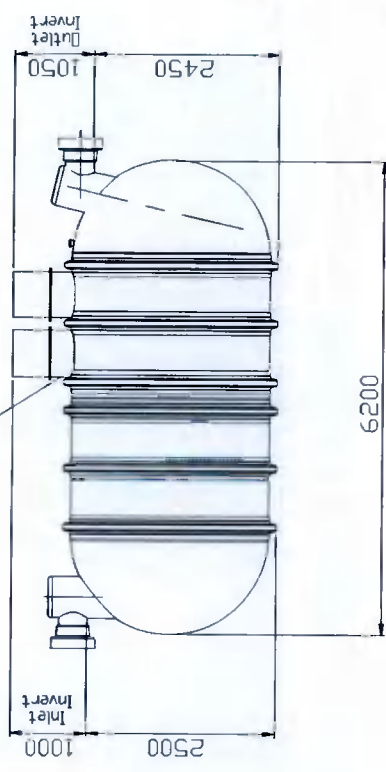
Bypass Petrol Interceptor Detail
Location Reference PI 3
Scale 1:50

LOCATION REF.	UNIT REF.	UNIT CLASS	NOMINAL FLOW RATE (L/s)	PEAK FLOW RATE (L/s)	OVERALL LENGTH	BASE TO INLET INVERT	OUTLET INVERT	STD PIPE DIA. (GRP)
PI 1 & PI 2	NSFA100	1	100	100	6200	2500	2450	600
PI 3	NSBE050	1	50	500	3960	2185	2035	600

*Based on peak slow & catchment size from Klargester Separator Technical Literature



Drill each neck to fix coalescer assemblies



Full Retention Petrol Interceptor Detail
Location Reference PI 1 & PI 2
Scale 1:50

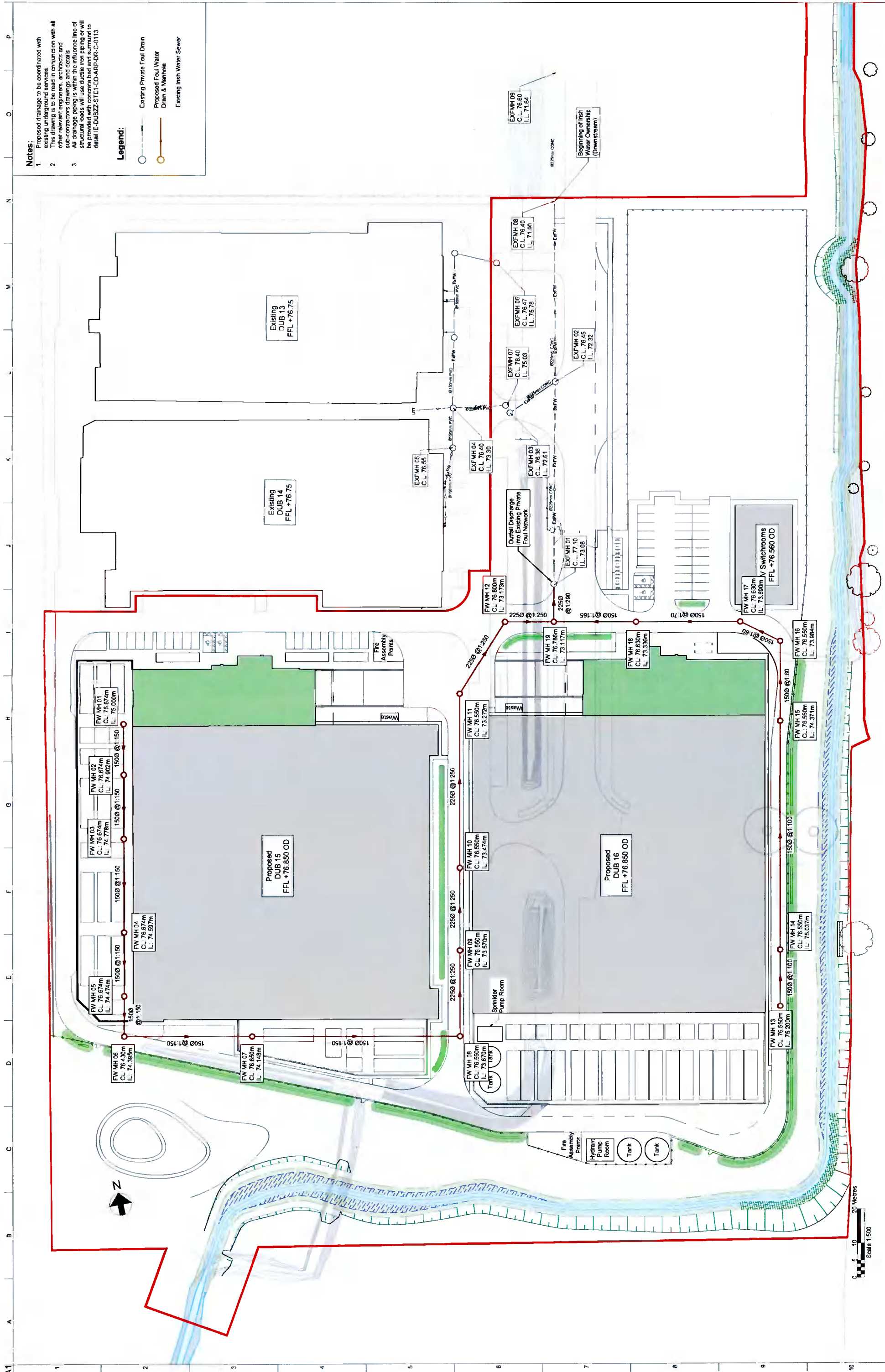
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CD1	CD2	CDS	CDS	JMAC	JMAC
01/2007/01	01/2007/01	CDS	CDS	JMAC	JMAC

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File	Date	By	Check	Appd

Client: Digital Netherlands VIII B.V. (Netherlands)
 Project No: INXN DUB15/16
 Drawing No: Standard Details Sheet 5 of 11
 Scale of A1: As Shown
 Rev: C02
 App No: 280503-00
 Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0116



- Notes:**
- Proposed drainage to be coordinated with existing underground services.
 - This drawing is to be read in conjunction with all other relevant drawings, architects and sub-contractors drawings and details.
 - All drainage piping is within the influence line of structural loads will use ductile iron piping or will be provided with concrete bed and surrounded to detail IE-DUBZZ-STE1-EO-ARP-DR-C-0113



Scale #A1	1:500
Role	Civil
Subsidiary	Planning RFI Response
Area Job No.	280503-00
Rev	C03
Name	IE-DUBZZ-STE1-EO-ARP-DR-C-0110

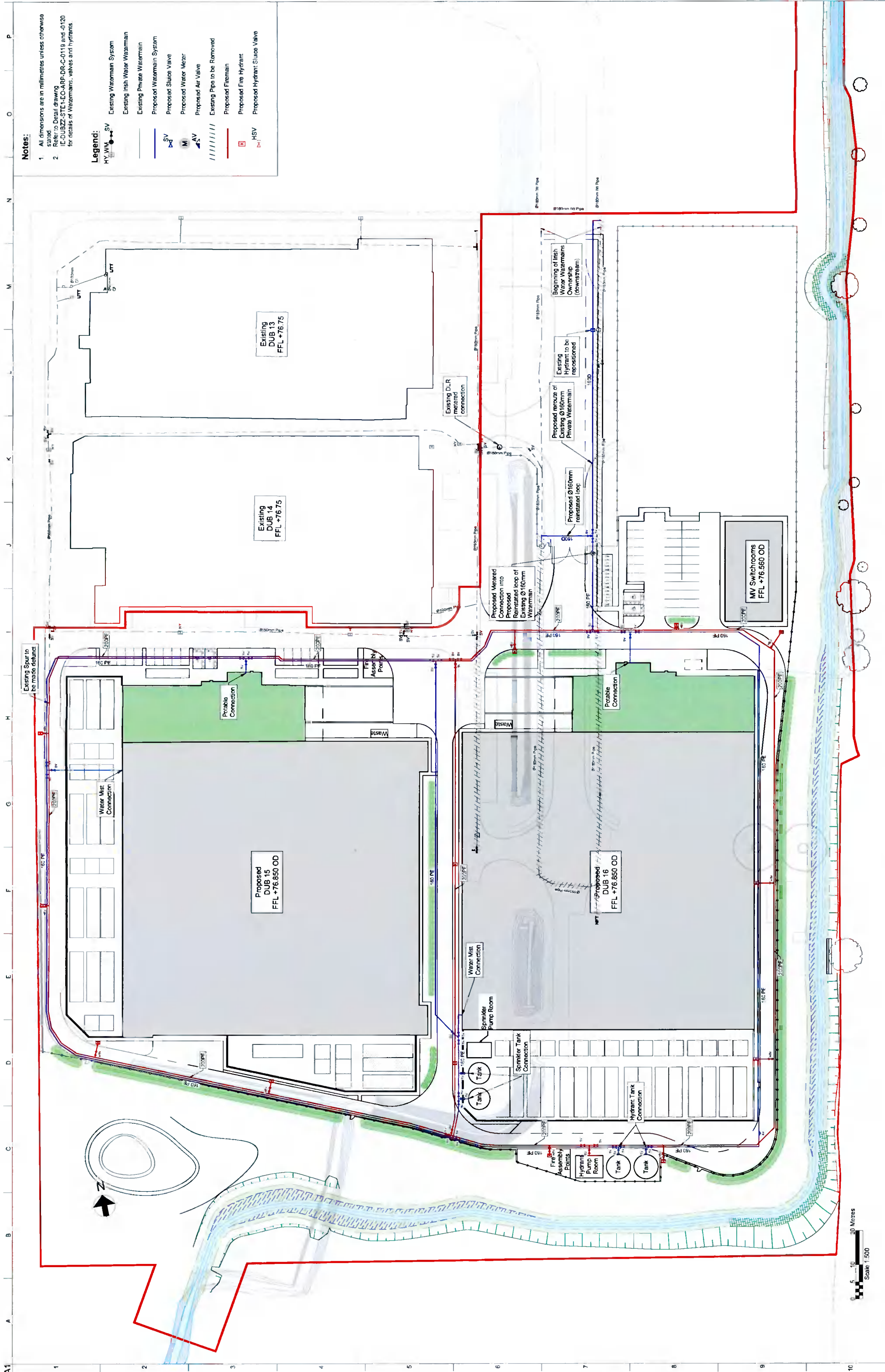
Drawing Title
Proposed Foul Water Layout

Project Title
INXN DUB15/16

Client
Digital Netherlands VIII B.V. (Netherlands)



C03	14/03/22	CDS	CDS	JMAC
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C02	04/02/22	CDS	CDS	JMAC
Issued for Planning RFI Response				
C01	28/07/21	CDS	CDS	JMAC
Issued for Planning				
Rev	Num	By	Chk	Appd



Notes:

- All dimensions are in millimetres unless otherwise stated.
- Refer to Detail drawing IE-DUBZZ-STE1-EO-ARP-DR-C-0119 and -0120 for details of Watermain, valves and hydrants.

Legend:

- HY, WM, SV Existing Watermain System
- Existing Irish Water Watermain
- Existing Private Watermain
- Proposed Watermain System
- Proposed Sluice Valve
- Proposed Water Meter
- Proposed Air Valve
- Existing Pipe to be Removed
- Proposed Fireman
- Proposed Fire Hydrant
- Proposed Hydrant Sluice Valve

Scale at A1: 1:500

Role: Civil

Subsidiary: Planning RTI Response

App. No. No: 280503-00

Rev: C03

Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0111

Drawing Title: Proposed Watermain Layout

Project Title: INXN DUB15/16

Client: Digital, Netherlands VIII B.V. (Netherlands)

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Rev	Date	By	Check	App'd
C03	14/03/22	CDS	CDS	JMAC
Issued for Planning RTI Response				
C02	04/02/22	CDS	CDS	JMAC
Issued for Planning RTI Response				
C01	28/07/21	CDS	CDS	JMAC
Issued for Planning				

Scale 1:500

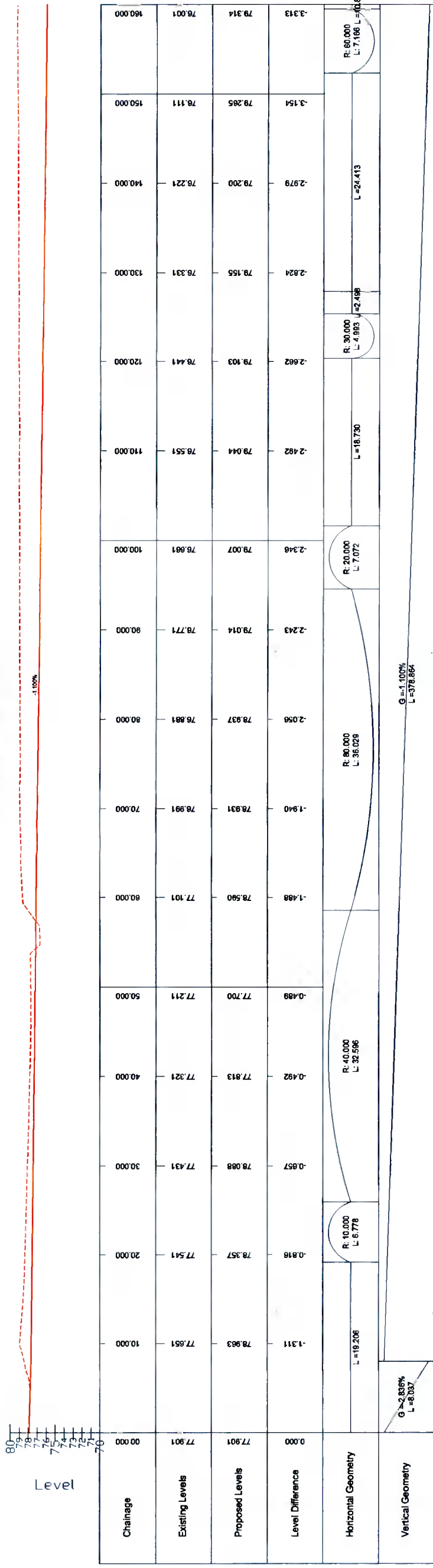
0 5 10 20 Metres

Notes:
 1 For Plan view refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0107
 2 For cross-sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0108

Legend:
 - - - Existing Ground Level
 - - - Proposed Watercourse Invert Level

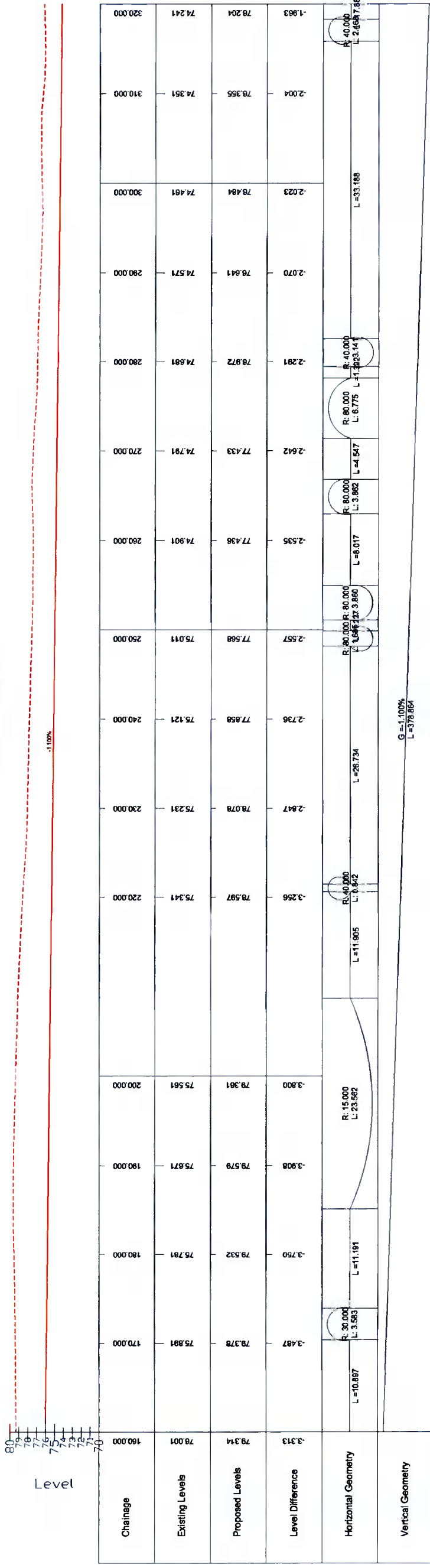
10 Metres
 Scale 1:250

WATERCOURSE CENTRELINE LONGSECTION
 SCALE: H 1:250, V 1:250, DATUM: TGD30



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
00.000	77.901	77.901	0.000		G = -2.838% L = 8.037
10.000	77.651	78.963	-1.311	L = 19.206	
20.000	77.541	78.357	-0.816	R: 10.000 L: 6.778	
30.000	77.431	78.088	-0.657		
40.000	77.321	77.813	-0.492	R: 40.000 L: 32.586	
50.000	77.211	77.700	-0.489		
60.000	76.881	78.837	-2.056	R: 80.000 L: 36.029	
70.000	76.991	78.931	-1.940		
80.000	76.881	78.837	-2.056		G = -1.000% L = 378.864
90.000	78.771	79.014	-2.243		
100.000	76.681	79.007	-2.346	R: 20.000 L: 7.072	
110.000	76.551	79.044	-2.492	L = 18.730	
120.000	76.441	79.103	-2.662	R: 30.000 L: 4.993 L = 24.413	
130.000	76.331	79.155	-2.824		
140.000	76.221	79.200	-2.979		
150.000	76.111	79.265	-3.154		
160.000	76.001	79.314	-3.313	R: 60.000 L: 7.186 L = 60.887	

WATERCOURSE CENTRELINE LONGSECTION (1)
 SCALE: H 1:250, V 1:250, DATUM: TGD30



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
160.000	76.001	79.314	-3.313		
170.000	75.891	78.378	-3.487	R: 30.000 L: 3.563 L = 10.887	
180.000	75.781	79.532	-3.750	L = 11.191	
190.000	75.671	79.579	-3.908	R: 15.000 L: 23.562	
200.000	75.561	79.361	-3.800		
210.000	75.451	79.597	-3.256	R: 40.000 L: 9.642 L = 28.734	
220.000	75.341	78.078	-2.736		
230.000	75.231	78.078	-2.847	R: 30.000 L: 23.562 L = 33.862	
240.000	75.121	77.856	-2.734		
250.000	75.011	77.568	-2.557	R: 80.000 L: 3.862 L = 8.017	
260.000	74.901	77.436	-2.535	L = 18.730	
270.000	74.791	77.433	-2.642	R: 80.000 L: 3.862 L = 54.7	
280.000	74.681	78.972	-2.291	R: 80.000 L: 6.175 L = 33.141	
290.000	74.571	78.641	-2.070		
300.000	74.461	78.484	-2.023	L = 33.188	
310.000	74.351	78.355	-2.004	R: 40.000 L: 2.681 L = 2.681	
320.000	74.241	78.204	-1.963		

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C01	04/02/22	CDS	CDS	JMAC

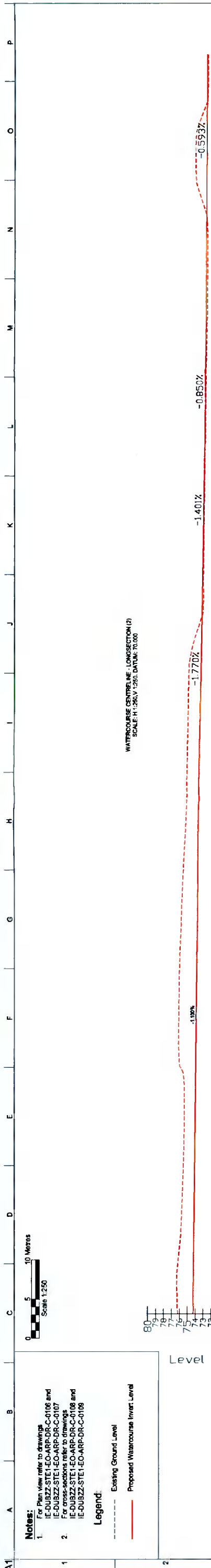
Issued for Planning RFI Response

Client:
 Digital Netherlands VIII B.V.
 (Netherlands)

Project Title:
 INXN DUB15/16

Drawing Title:
 Proposed Watercourse Diversion
 Layout
 Long Sections
 Sheet 1 of 3

Scale: A1 1:250
Rate: CH1
Contract No.: 280503-00
Area Job No.: 280503-00
Rev: C01
Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0134



WATERCOURSE CENTRELINE - LONGSECTION (2)
SCALE: H: 1:250, V: 1:250, DATUM: 70.000

Notes:

- For Plan view refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0107
- For cross-sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0108

Legend:

- Existing Ground Level
- Proposed Watercourse Invert Level

Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
320.000	74.241	76.204	-1.963	L=17.883	G=-1.100% L=378.864
340.000	74.021	75.418	-1.397	L=8.162	
350.000	73.911	75.402	-1.491	R=200.000 L=25.788	
360.000	73.901	76.005	-2.203	R=20.000 L=1.410	
370.000	73.981	75.726	-2.035	R=10.000 L=2.788	
380.000	73.581	74.949	-1.468	R=10.000 L=2.788	
390.000	73.451	74.949	-1.498	L=16.557	
400.000	73.274	74.807	-1.533	R=10.000 L=6.426	
410.000	73.087	72.985	0.132	R=10.000 L=6.426	
420.000	72.930	72.968	0.062	L=23.872	
430.000	72.806	72.743	0.063		
440.000	72.721	72.828	0.096		
450.000	72.643	72.488	0.155	L=19.080	
460.000	72.584	72.688	-0.084	R=3.761 L=2.311	
470.000	72.524	73.858	-1.334	R=5.900 L=3.641	
480.000	72.465	72.368	0.098	R=4.681 L=3.623	

WATERCOURSE CENTRELINE - LONGSECTION (2)(1)
SCALE: H: 1:250, V: 1:250, DATUM: 70.000

Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
480.000	72.465	72.368	0.098	L=15.032	
490.000	72.406	72.308	0.098		
500.000	72.348	72.291	0.056	L=18.876	
510.000	72.290	72.288	0.002		
520.000	72.290	72.262	0.028	L=16.352	
530.000	72.234	72.224	0.010	L=4.333	
540.000	72.179	72.179	0.000	L=15.223	
550.000	72.179	72.179	0.000	L=9.784	
560.000	72.179	72.179	0.000	L=1.130	

Scale: H: 1:250, V: 1:250, DATUM: 70.000

Client: Digital Netherlands VIII B.V. (Netherlands)

Project Title: INXN DUB15/16

Drawing Title: Proposed Watercourse Diversion Layout Long Sections Sheet 2 of 3

ARUP

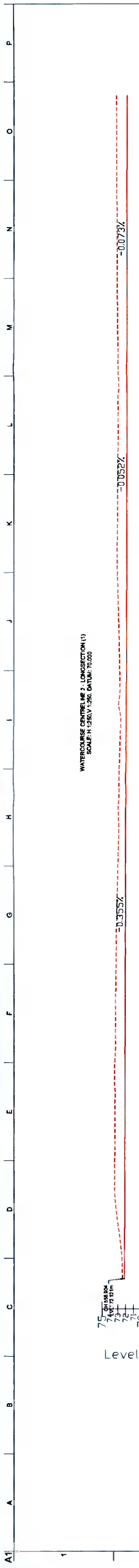
Approved for Planning RFI Response

Rev	Date	By	Check	App'd
C01	04/02/22	CDS	CDS	JMAC

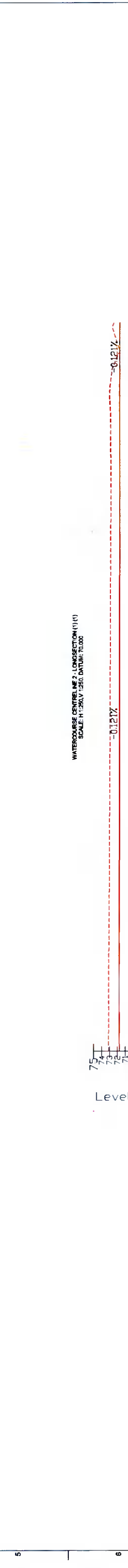
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Rev: C01

Name: IE-DUBZZ-STE1-EO-ARP-DR-C-0135



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
555.000	72.117	72.377	-0.260	R: 20.000 L: 5.428 J: 2.216 L: 5.359	
570.000	72.081	73.364	-1.283		
580.000	72.046	73.316	-1.270		
590.000	72.010	73.252	-1.242		
600.000	71.975	73.157	-1.183		
610.000	71.939	72.959	-1.020		
620.000	71.904	72.832	-0.928	R: 20.000 L: 2.842	
630.000	71.868	72.562	-0.694	R: 4.000 L: 4.333	
640.000	71.833	72.782	-0.949	L: 14.782	
650.000	71.797	73.017	-1.220	R: 40.000 R: 40.000 L: 14.313 L: 14.313	
660.000	71.768	72.944	-1.158		G = -0.052% L = 19.305
670.000	71.781	72.910	-1.129	R: 10.000 R: 10.000 L: 9.746 L: 9.746	
680.000	71.774	72.981	-1.207		
690.000	71.768	73.025	-1.258		G = -0.073% L = 40.845
700.000	71.759	73.083	-1.304		
710.000	71.752	73.100	-1.348	R: 40.000 L: 2.561	



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
710.000	71.752	73.100	-1.348	R: 40.000 L: 2.561 L: 9.976	G = -0.073% L = 40.845
720.000	71.740	73.070	-1.329		
730.000	71.728	73.016	-1.288		
740.000	71.716	72.972	-1.256		
750.000	71.704	72.919	-1.215		
760.000	71.688	72.788	-1.120	L: 21.674	G = -0.421% L = 79.414
770.000	71.680	72.846	-1.168		
780.000	71.656	72.833	-1.177	R: 20.000 L: 3.797 L: 2.411	
790.000	71.644	71.820	-0.176		
803.000	71.640	72.395	-0.755	R: 10.000 L: 10.130 L: 5.845	G = -0.421% L = 79.414

Notes:
 1. For Plan view refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0106 and IE-DUBZZ-STE1-EO-ARP-DR-C-0107
 2. For cross-sections refer to drawings IE-DUBZZ-STE1-EO-ARP-DR-C-0108 and IE-DUBZZ-STE1-EO-ARP-DR-C-0109

Legend:
 - - - - - Existing Ground Level
 ——— Proposed Watercourse Invert Level



Scale: A1 1:250

Drawing Title: Proposed Watercourse Diversion Layout Long Sections Sheet 3 of 3

Project Title: INXN DUB15/16

Client: Digital Netherlands VIII B.V. (Netherlands)

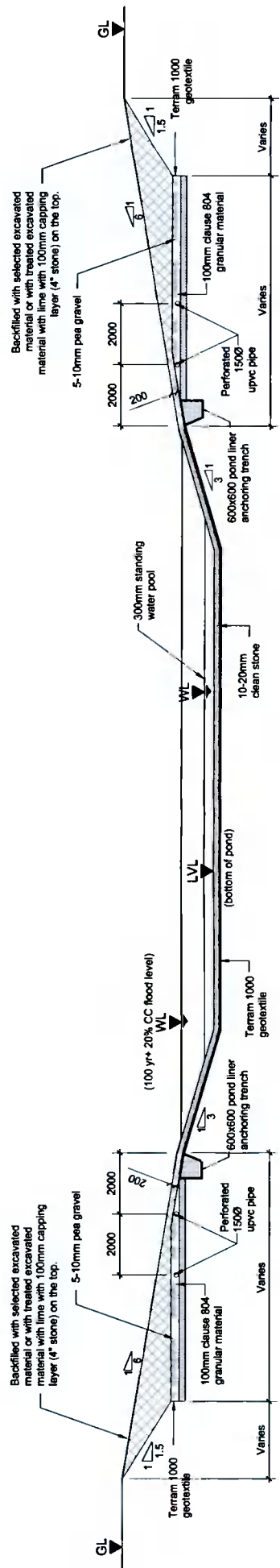
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Approved for Planning RFI Response
 Issued for Planning RFI Response
 Date: 04/02/22
 By: CDS
 Checked: MD
 Approved: JMAC

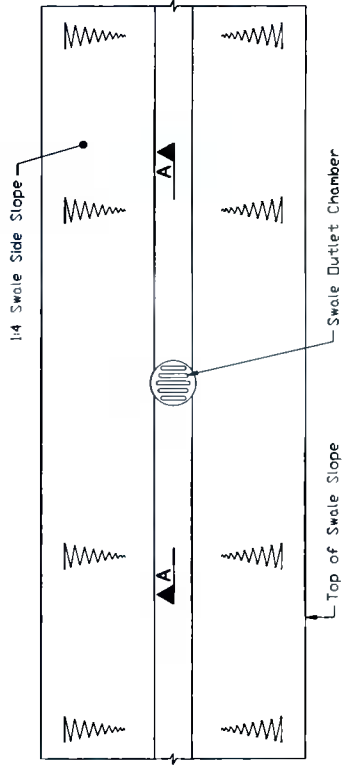
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 By: Planning RFI Response
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Row: 280503-00
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 By: Planning RFI Response
 Checked: C01
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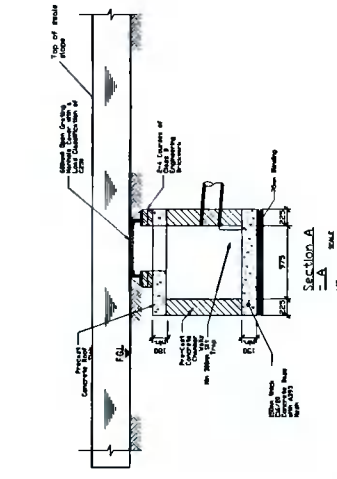
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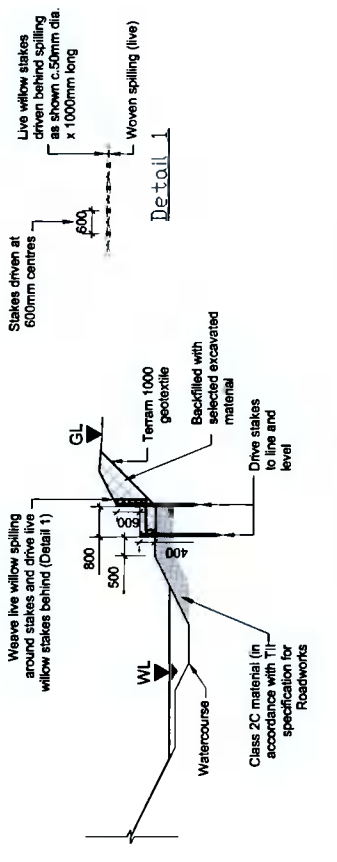
Typical Section Through Attenuation Pond
Scale 1:100



Typical Swale Outlet Detail
Scale 1:50



Typical Willow Spilling Retaining Wall
Scale 1:100



ARUP

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Project Title: INXN DUB15/16

Drawing Title: Standard Details Sheet 12 of 12

Scale as At	As Shown
Rev	Civil
Submittal	Planning RFI Response
Arup Job No	280503-00
Rev	C01
Name	IE-DUBZZ-STE1-E0-ARP-DR-C-0137