

DUBLIN URBAN RIVERS LIFE PROJECT – INTEGRATED CONSTRUCTED WETLAND BUILDER WORKSHOP







Stage A - Desk Study

Do you have a green area or open space?*

An ICW is likely to take up considerable space, likely 2000m², but at least 700m²

☒ Yes☐ No

How many houses are in the proposed ICW catchment area?*



Enter Depth of Existing Drainage to invert depth (metres)

Needed to calculate spoil estimate

Estimate of Spoil (m²)

$$\text{Spoil} = (\text{Treatment Area} \times (\text{depth} + 0.5)) + ((\text{depth} + 0.5) \times \text{bank slope} \times \text{bank slope} \times (\text{depth} + 0.5) \times (\text{depth} + 0.5) \times 2) + ((\text{depth} + 0.5) \times (\text{TAW}) \times \text{bank slope} \times (\text{depth} + 0.5)) + ((\text{depth} + 0.5) \times (\text{TAL}) \times \text{bank slope} \times (\text{depth} + 0.5))$$



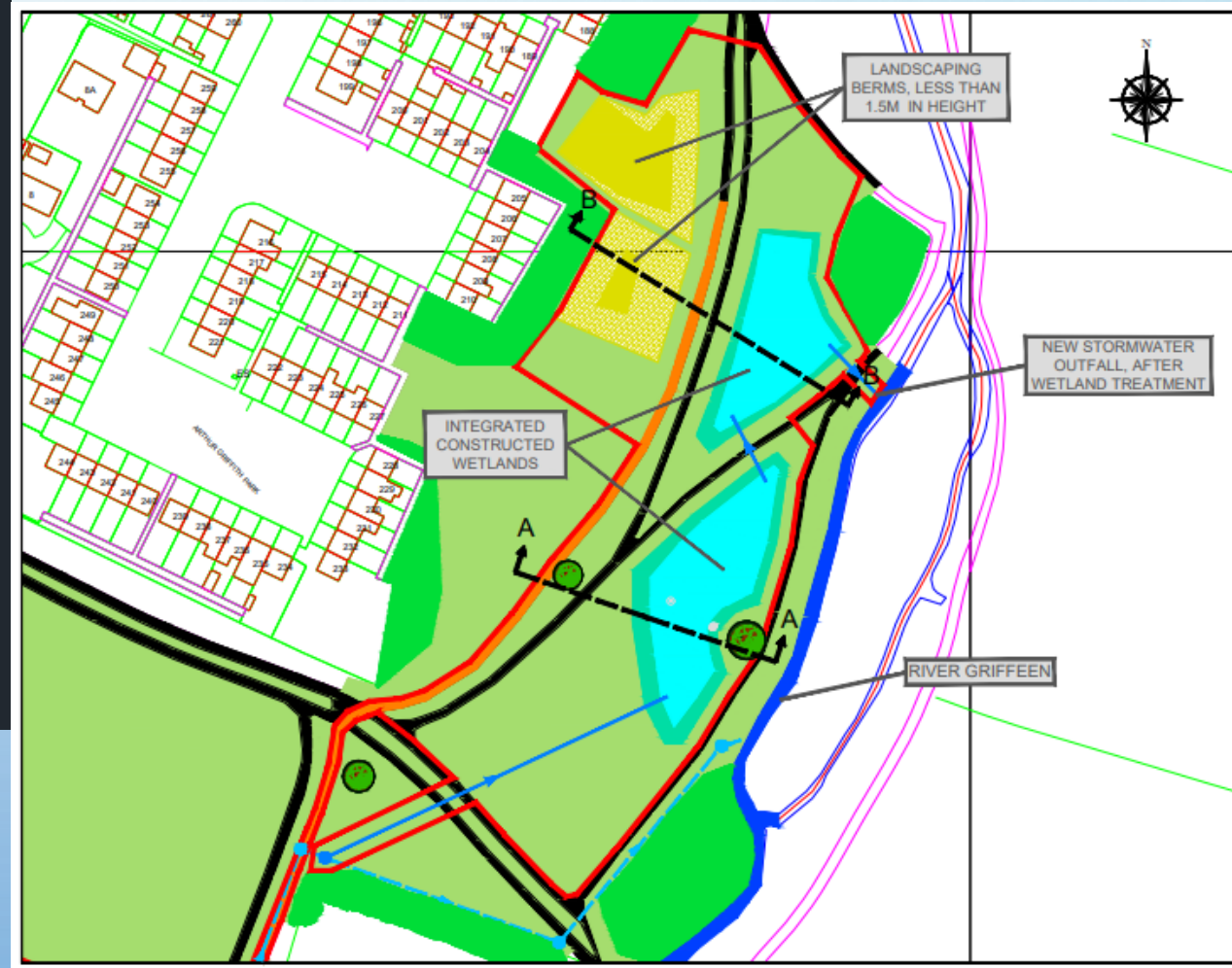
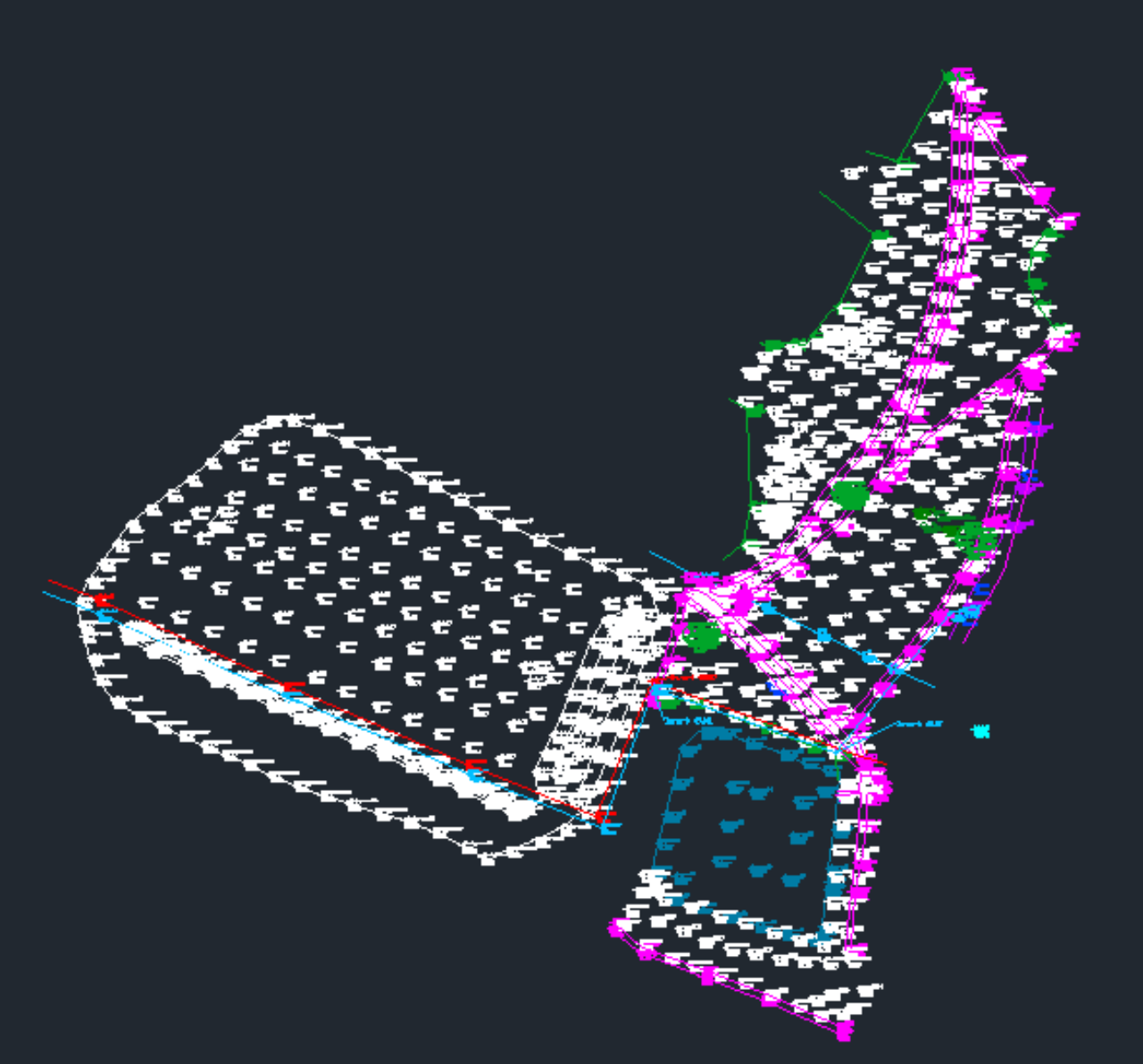


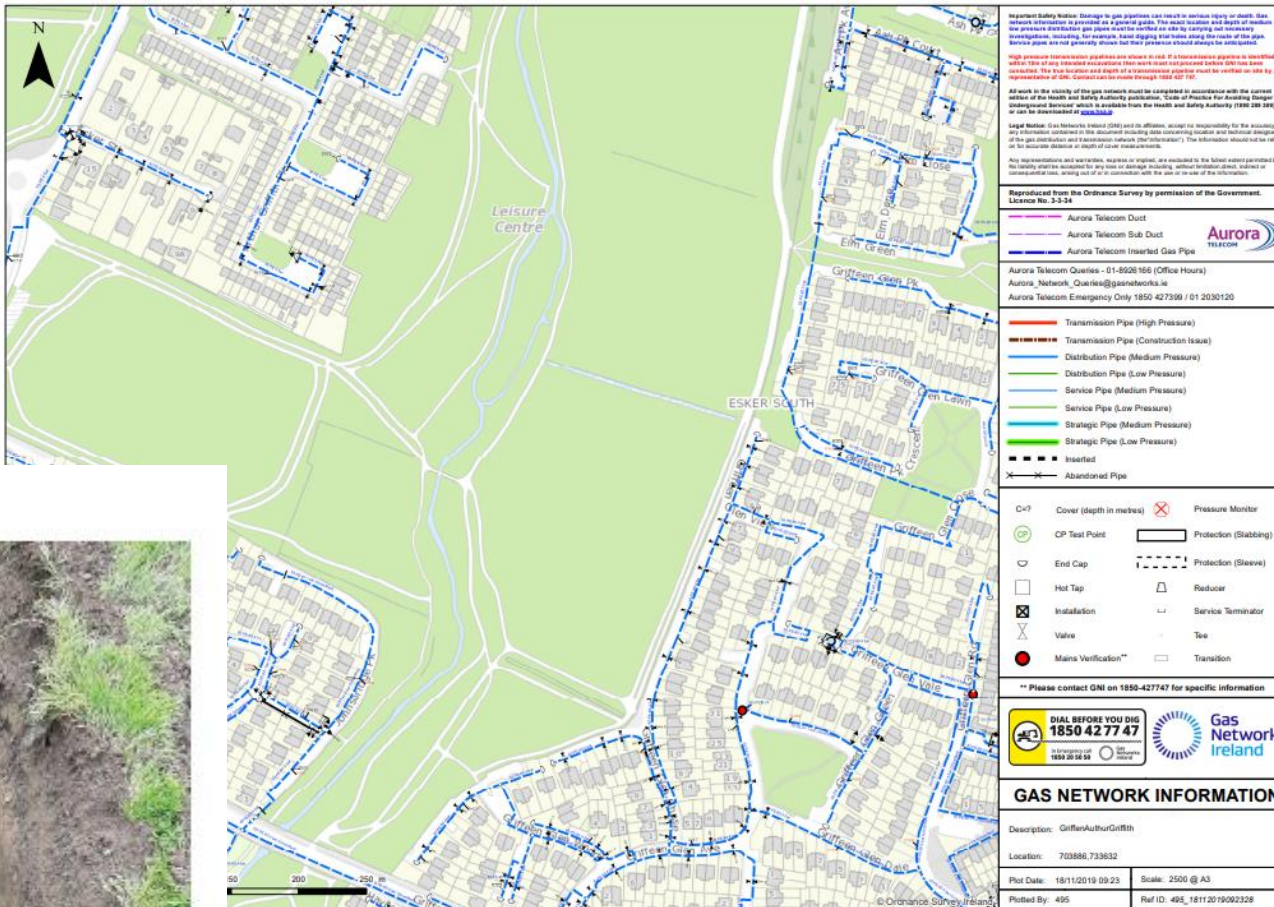
SPOIL QUANTITIES

- AN EARLY ESTIMATE OF SPOIL QUANTITIES GIVES A GOOD PICTURE OF THE SCALE OF PROJECT
- IT IS CRUCIAL TO PLANNING THE PROJECT TO ASCERTAIN IF SOIL CAN BE REUSED ON-SITE AND IF SO, WHERE THE SOIL CAN BE REUSED. CONSULTATION WITH PARKS.
- IT IS USEFUL FOR EARLY ESTIMATES ON THE COST OF THE PROJECT
- ENVIRONMENTAL IMPACT, CARBON RELEASED WHEN SOIL IS EXCAVATED, CARBON FOOTPRINT OF REMOVING SPOIL FROM SITE IN TRUCKS. THIS WILL WORK AGAINST THE POSITIVE ENVIRONMENTAL IMPACT YOU ARE TRYING TO ACHIEVE.









TP01 – 2 of 3



ST REPORT

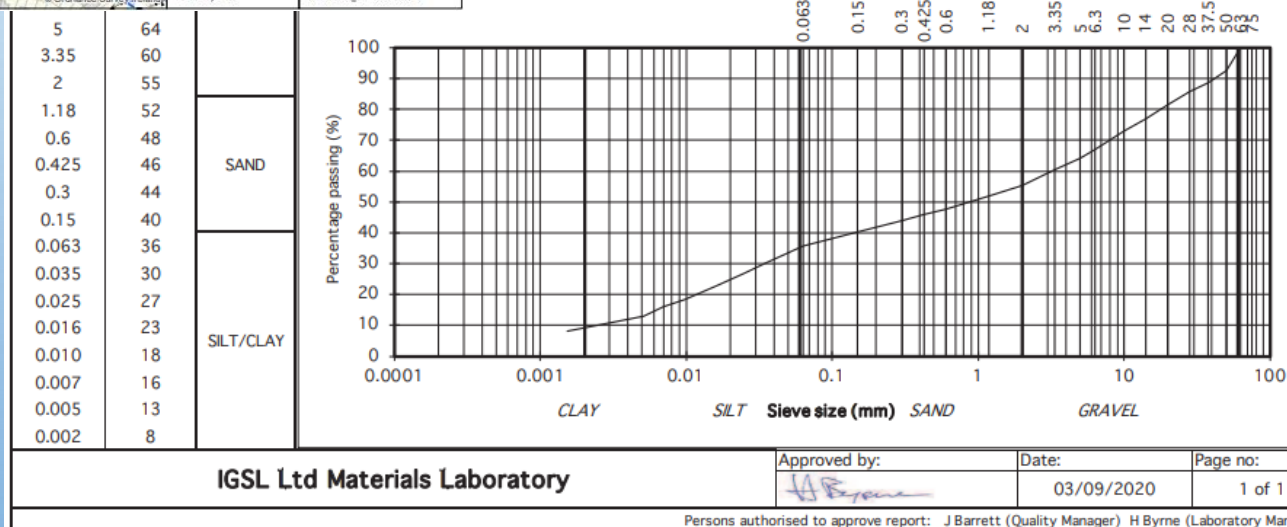
Particle Size Distribution

BS1377:Part2:1990 , clause 9.2 & 9.5
tation stage not accredited)



t No: 22698 Report No. R114356
t: DURL Projects Dublin (Site 1 Griffen Valley Park)
TP01
No. AA125838 Lab. Sample No. A20/4053
Type: B
n) 1.20 Customer: South Dublin County Council
ceived 16/08/2020 Date Testing started 20/08/2020
ion: Brown slightly sandy, gravelly, SILT

Sample size did not meet the requirements of BS1377



SITE INVESTIGATIONS – WHAT WE ARE LOOKING FOR

- TOPSOIL DEPTHS – QUICK TO BUILD AN ICW, SOD DOES NOT HAVE TIME TO ROT DOWN
- MADE UP GROUND OR CONTAMINATED MATERIAL
- CLAY CONTENT OF SOIL – ENOUGH TO FORM A CLAY LINER, TO HOLD THE WATER OF THE ICW
- IS THERE A HIGHLY PERMEABLE AREA PRESENT (SAND/GRAVEL)
- GROUND WATER LEVEL
- ROCK LEVEL
- BAD GROUND CONDITIONS (SILT, RUNNING SAND ETC).
- EXISTING SERVICE LOCATIONS AND LEVELS

Stage D - Environmental Reports

Have you allowed time for additional Surveys as part of the AA/EIA Screening process?*

Additional reports may be required for example mammal, bat and archaeological surveys. The AA and EIA Screening can lead to a requirement for further unplanned surveys, investigations and reports. For example at DR035 ICW, tufa springs were identified. A specialised ecologist was then required to do a survey and report on the springs, before the AA/EIA screening could be completed. The tufa spring ecologist then required a hydrological report in order to finish the tufa spring report.

☐ Yes☐ No

Back

Next

Page 5 of 8

- AA/EIA SCREENING REPORTS
- ECOLOGICAL REPORT
- BAT SURVEY
- ARCHAEOLOGICAL ASSESSMENT
- TUFA SPRING SPECIALISED ECOLOGIST SURVEY AND REPORT
- HYDROGEOLOGY REPORT



Part 8 Planning Process

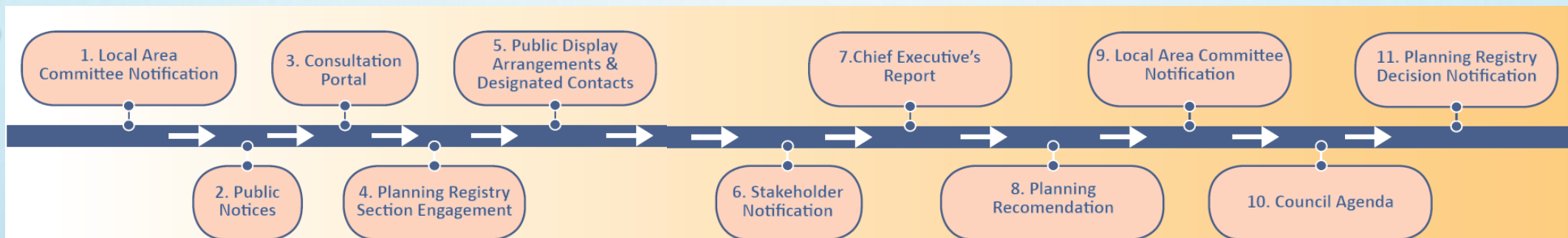


Figure 3: Formal Part 8 Procedure

**Comhairle Contae Átha Cliath Theas
South Dublin County Council**

**PLANNING & DEVELOPMENT ACT 2000 (AS AMENDED)
PLANNING AND DEVELOPMENT REGULATIONS 2001-2018
(AS AMENDED)
PART 8 SITE NOTICE**

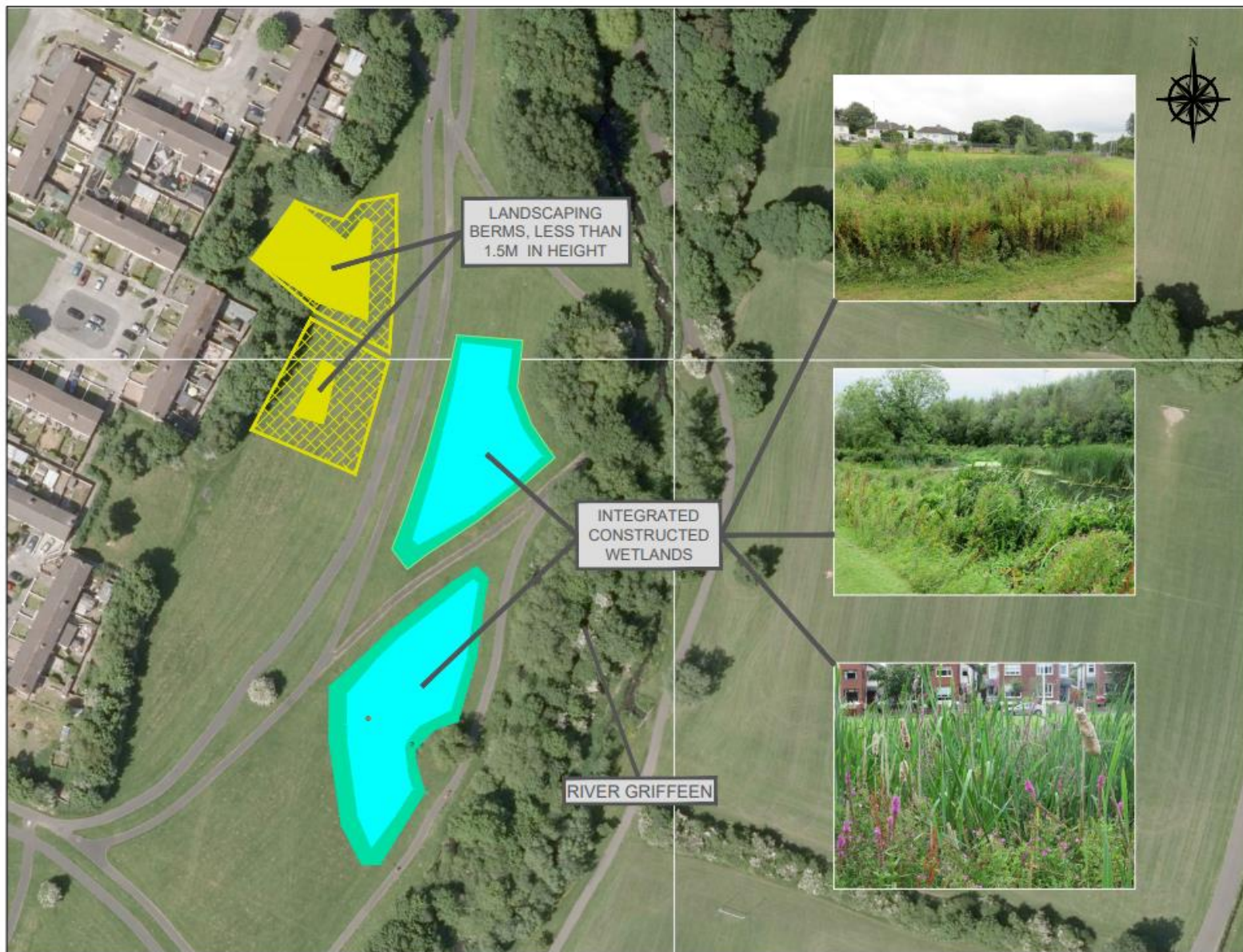
Pursuant to the requirements of the above, South Dublin County Council hereby give notice to construct the following development in the townland of Esker South, Lucan:

Development of public realm works totalling approximately 1.1ha at Griffen Valley Park, Esker South, Lucan, on South Dublin County Council lands, including:

- Build a new Integrated Constructed Wetland, to treat and improve surface water quality, before discharging to the River Griffen.
- Proposed works to include wetland planting scheme to treat surface water while offering greater biodiversity to the surrounding area.
- Proposed new surface water piped links between the existing surface water system and the Integrated Constructed Wetlands and a new surface water outfall to the River Griffen.
- Reprofilling of levels and small landscaping berms within the Park.
- All ancillary site development and landscaping works, including biodiverse planting, furniture, and pathways.

The proposal has undergone Appropriate Assessment Screening under the Habitats Directive (92/43/EEC) and screening for Environmental Impact Assessment under the EIA Directive 2014/52/EU. The authority has concluded that there is no real likelihood of significant effects on the environment arising from the proposed development and a determination has been made that an Environmental Impact Assessment (EIA) is not required. Any person may, within

Final Planning Docs > For Upload > GriffenValleyParkUploads				
Search GriffenValleyParkUploads				
Name	Date modified	Type	Size	
Griffen Valley Park Archaeological Asses...	08/10/2020 09:59	Microsoft Edge P...	4,791 KB	
Griffen Valley Park Ecological Survey Re...	21/09/2020 12:29	Microsoft Edge P...	1,539 KB	
Griffen Valley Park ICW AA Screening Fl...	29/10/2020 08:47	Microsoft Edge P...	1,840 KB	
Griffen Valley Park ICW Preliminary Exa...	29/10/2020 08:47	Microsoft Edge P...	3,517 KB	
Griffen Valley Park ICW Summary Repor...	03/11/2020 10:51	Microsoft Edge P...	1,534 KB	
Griffen Valley Park Newspaper Notice.pdf	03/11/2020 11:59	Microsoft Edge P...	701 KB	
Griffen Valley Park Part 8 Drawings.pdf	29/10/2020 14:07	Microsoft Edge P...	39,456 KB	
Griffen Valley Park Site Notice Signed.pdf	03/11/2020 13:14	Microsoft Edge P...	47 KB	
Griffen Valley Park Site Notice.pdf	03/11/2020 11:58	Microsoft Edge P...	513 KB	
ICWPart8SiteNoticeGriffenValleyPark.20....	02/11/2020 16:08	OpenDocument T...	55 KB	



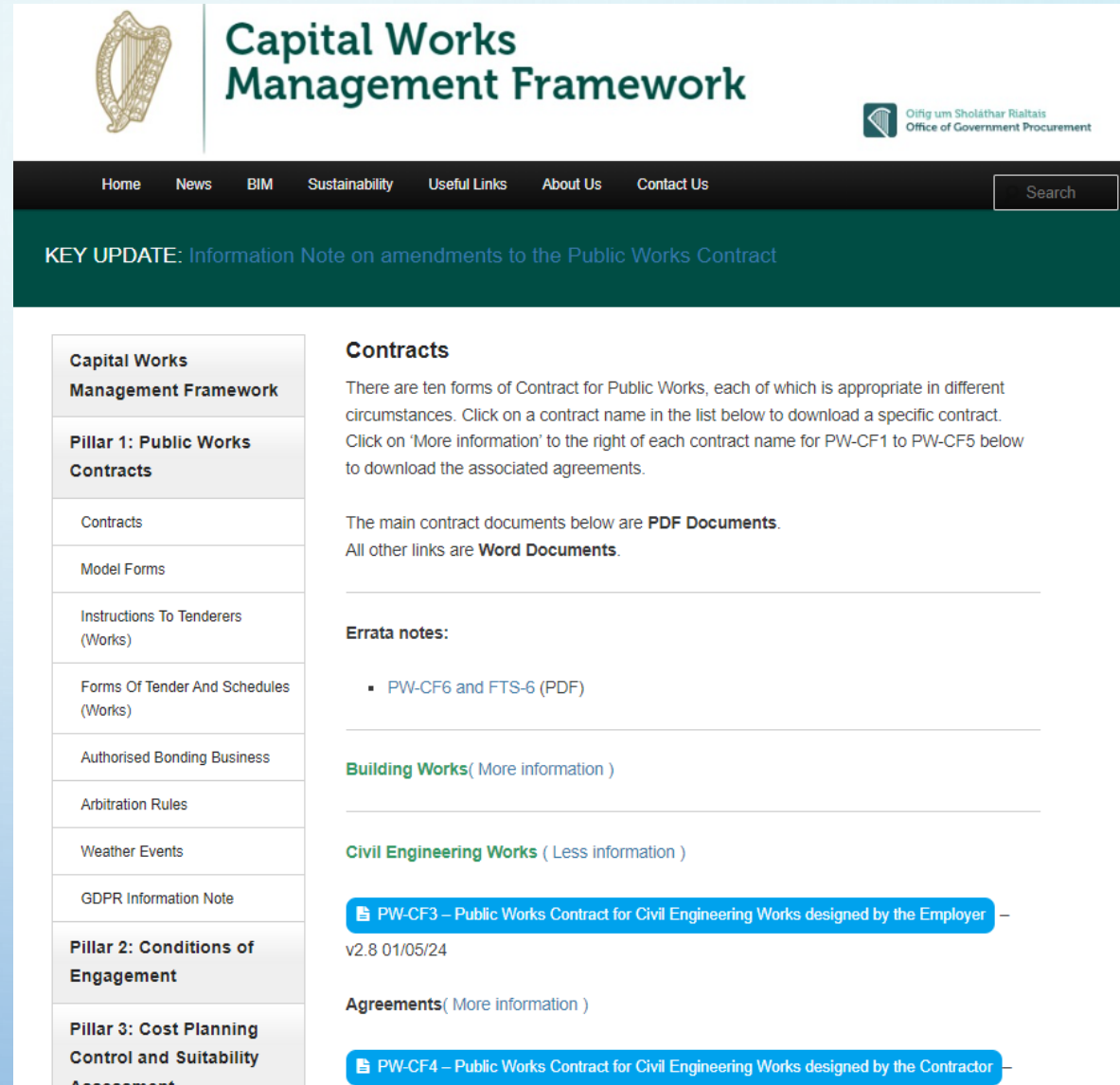
1 Proposed Visual Site Plan - Intergrated Constructed Wetland

SCALE 1:500

NOTES				
1) Images are of already existing similar Integrated Constructed Wetlands in Dublin				
LEGEND				
PROPOSED CW SLOPED BANKS				
PROPOSED CW BASE AREA				
KEYPLAN				
LANDSCAPE LEGEND				
PROPOSED BERM, 1.5 SLOPED SIDE				
REV	DATE	DESCRIPTION	D	C
000281	A1	PLANNING		
<small>COPYRIGHT RESERVED - THIS DRAWING IS NOT TO BE USED FOR A PURPOSE OTHER THAN THAT FOR WHICH IT HAS BEEN ISSUED BY SOUTH DUBLIN COUNTY COUNCIL LTD. NOR IS IT TO BE COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN CONSENT.</small>				
DUBLIN URBAN RIVERS LIFE PROJECT				
GRIFFEEN VALLEY PARK - VISUAL PLAN AND IMAGES				
SCALE	DRAWN	CHECKED	APPROVED	
1:500 @ A1	G. Stanton	R. Fitzpatrick	C. Galvin	
DATE	DATE	DATE	DATE	
20.10.2020	27.10.2020	29.10.2020		
PROJECT No.				01
DURL-SDCC-GVP-D-011				

TENDER PROCESS

- WE WENT WITH A DESIGN AND BUILD CONTRACT, AS WE FELT IT GAVE MORE COST CERTAINTY.
- WE WENT AN OPEN PROCEDURE AS AT THE TIME DID NOT BELIEVE THAT WE WOULD GET TOO MANY TENDERS IN, AND WANTED THE MAXIMUM WE COULD GET.
- THIS ALSO MEANT WE DIDN'T HAVE TO RUN A SEPARATE QUALIFICATION COMPETITION, SAVING TIME.



The screenshot shows the homepage of the Capital Works Management Framework website. The header features the Harp logo and the title 'Capital Works Management Framework' in green. To the right is the 'Oifig um Sholáthar Rialtais Office of Government Procurement' logo. A dark navigation bar contains links for Home, News, BIM, Sustainability, Useful Links, About Us, and Contact Us, along with a search box. A green banner below the navigation bar displays a 'KEY UPDATE' regarding amendments to the Public Works Contract. The main content area is divided into two columns. The left column is a sidebar with a table of contents for the framework, including sections for Pillar 1 (Public Works Contracts), Pillar 2 (Conditions of Engagement), and Pillar 3 (Cost Planning Control and Suitability Assessment). The right column contains the 'Contracts' section, which explains the ten forms of contract available and provides links to download specific contracts (PW-CF1 to PW-CF5) and associated agreements. It also includes links for Errata notes, Building Works, and Civil Engineering Works.

Capital Works Management Framework

Pillar 1: Public Works Contracts

- Contracts
- Model Forms
- Instructions To Tenderers (Works)
- Forms Of Tender And Schedules (Works)
- Authorised Bonding Business
- Arbitration Rules
- Weather Events
- GDPR Information Note

Pillar 2: Conditions of Engagement

Pillar 3: Cost Planning Control and Suitability Assessment

Contracts

There are ten forms of Contract for Public Works, each of which is appropriate in different circumstances. Click on a contract name in the list below to download a specific contract. Click on 'More information' to the right of each contract name for PW-CF1 to PW-CF5 below to download the associated agreements.

The main contract documents below are **PDF Documents**. All other links are **Word Documents**.

Errata notes:

- PW-CF6 and FTS-6 (PDF)

Building Works (More information)

Civil Engineering Works (Less information)

PW-CF3 – Public Works Contract for Civil Engineering Works designed by the Employer – v2.8 01/05/24

Agreements (More information)

PW-CF4 – Public Works Contract for Civil Engineering Works designed by the Contractor –

Tender Documents for Procurement

	Document Headings		Clarification	Tender Return HARD and SOFT COPY
1.A	Invitation to Tender			
1.B	Contents Page		This Document	
1.C	Instruction to Tenderers – ITT W2			
2.	Suitability Assessment Questionnaire: SAQ DOC ID QW2: Works Contractor (as PSCS, as Designer) Open Procedure Supplements and Appendices	2.0 2.1 2.A	For Main Contractor (and any subcontractor providing 25%+ of contract) Suitability Assessment Questionnaire Doc QW2: Works Contractor (as PSCS, Designer and PSDP) Open Procedure QW2 Supplements and QW2 Appendices – Self Declarations See attached List Appendix 1, pg4	✓ To be returned completed in Tender Envelope 1, marked “SAQ Documents”
3.	Appendix 3		Data Protection Declaration	✓ To be returned completed in Tender Envelope 1, marked “SAQ Documents”
4.	Volume B Form of Tender and Schedule			✓ To be returned, completed in Tender Envelope 2
5.	Volume C Pricing Document			✓ To be returned, completed in Tender Envelope 2
6.	Volume A Works Requirements Employer’s Requirements		Performance Specification, Design Brief and Design Input Information	
7.	Volume A Works Requirements SDCC Indicative Drawings		See Document Register Appendix 2 attached – pages 8 and 9 of this document	
DOCUMENTS FOR INFORMATION ONLY – TECHNICAL THIRD PARTY INFORMATION				
8.	Reports by 3 rd Parties		See Document Register Appendix 2 attached – Page 5, 6 and 7 of this document.	

		Reports as part of AA/EIA screening for part8 planning application, Site Photos, Service Drawings, Topo Surveys, Site Investigations Results	
DOCUMENTS FOR INFORMATION ONLY – TO BE COMPLETED AT CONTRACT SIGNING			
A	PW-CF4 v 2.3	Public Works Contract for Civil Engineering Works Designed by the Contractor	
B	MF 1.10	PSCS/PSDP Appointment Form	
C	MF 1.13	Rates of Pay and Conditions of Employment Form	
D	GDPR	Works Confidentiality Agreement	
Z	Preliminary Testing and Inspection Plan	Preliminary Testing/Inspection Plan	

ADDITIONAL DOCUMENTS TO BE SUBMITTED BY THE TENDERER AND TO BE RETURNED IN ENVELOPE 2, OR IN A CLEARLY MARKED SEPARATE SEALED ENVELOPE WITHIN OUTER TENDER RETURN ENVELOPE 3

E	Design Works Proposal Details	Refer to ITT Particulars, Award Criterion and ITT Appendix 1	✓	To be returned in Tender Envelope 2 or *
F	Management & Supervision Structure for the Delivery of the Facilities	Refer to ITT Particulars, Award Criterion and ITT Appendix 1	✓	To be returned in Tender Envelope 2 or *
G	Programme Tenderer’s Initial Programme and Methodology from Appointment to Completion	Refer to ITT Particulars, Award Criterion and ITT Appendix 1	✓	To be returned in Tender Envelope 2 or *
H	Tenderer’s Detailed Breakdown of Tender Price for Indicative Project	Tender to show detailed breakdown of Categories referred to in Pricing Document – Volume C	✓	To be returned in Tender Envelope 2 or *

***OR IN A CLEARLY MARKED “WORKS PROPOSALS” SEPARATE SEALED ENVELOPE WITHIN OUTER TENDER RETURN ENVELOPE**

Appendix 1

List of Suitability Assessment Questionnaires, Supplements and Appendices to be completed and returned with Tender in Envelope 1 All available on the following link also: https://constructionprocurement.gov.ie/suitability-assessment-questionnaires/			Docs to be returned marked with '✓'	
2.0	Suitability Assessment Questionnaire QW2	Works Contractor Open Procedure	✓	
	QW2 Supplements: Contractor to use the following relevant Supplement/s where any of the following is in-house			
2.1	QW2 Supplement 3.4.1	H&S Competence of Contractor	✓	
2.2	QW2 Supplement 3.4.2	H&S Competence of PSCS	✓	
2.3	QW2 Supplement 3.4.3	H&S Competence of Contractor as Designer	✓	
2.4	QW2 Supplement 3.4.4	H & Competence of Project Supervisor for the Design Process and Health & Safety Coordinator	✓	
	QW2 Self Declarations: Contractor to use the following relevant Self Declarations and omit anywhere the Service is NOT being provided in-house			
2.A	QW2 Appendix A	Applicant's Personal Situation Declaration (Declaration on Oath)	✓	
	or	or		
2.A1	QW2 Appendix A1	Letter of Confirmation that Declaration on Oath previously submitted to SDCC is still valid		
2.B1	QW2 Appendix B1	List of previous works and services for which there is a certificate of satisfactory execution (3 projects of a similar scale, complexity and timeframe and/or similar use over the last 7 years, and at least one project must demonstrate experience in delivering a Construction Works Management Framework contract of a similar scale, complexity and timeframe in the last 7 years	✓	
2.B2	QW2 Appendix B2 x3	Certificate of Satisfactory Execution – Works Only (as main Contractor only) for the 3 projects in B1	✓	
2.B3	QW2 appendix B3 x3	Certificate of Satisfactory Delivery of Services (Works Contractor as PSCS) For the 3 projects in B1	✓	
2.C1	QW2 Appendix C1	Health & Safety Declaration – Contractor or PSCS Appointments	✓	
2.C2	QW2 Appendix C2	Health & Safety Compliance Declaration – by Contractor as Designer/PSDP/SC	✓	
2.C3	QW2 Appendix C3	Health & Safety Compliance Declaration – Contractor/Specialist	✓	
2.C4	QW2 Appendix C4	Health & Safety Compliance Declaration - PSCS	✓	
2.C5	QW2 Appendix C5	Health & Safety Compliance Declaration – Contractor/Specialist as Designer	✓	

2.C6	QW2 Appendix C6	Health & Safety Compliance Declaration – Project Supervisor for the Design Process/Health & Safety Coordinator Appointment	✓	
2.D	QW2 Appendix D	Declaration that Applicant can meet Minimum Standard for Economic and Financial Criteria in Suitability Questionnaire	✓	
2.E	QW2 Appendix E	Declaration that Applicant can meet Minimum Standard for Technicians or Technical Bodies responsible for Quality Control (and those upon whom the contractor can call in, in order to carry out the work/in regard to providing a service and also study and research facilities).	✓	
2.F	QW2 Appendix F	Declaration that Applicant can meet the Minimum Standard for the Technical Equipment Criterion in Suitability Questionnaire	✓	
2.G	QW2 Appendix G	Declaration that applicant can meet Minimum Health and Safety Standards in regard to Educational and Professional Qualifications in Supplement 3.4.1 to suitability Questionnaire	✓	
2.H	QW2 Appendix H	Declaration that Applicant can meet the Minimum Standard for Educational and Professional Qualifications in supplement 3.4.2 to Suitability Questionnaire.	✓	
2.I	QW2 Appendix I	Letter of Undertaking from Security Company regarding Bond	✓	

GRIFFEEN CASE STUDY

- Starting the Construction Stage of 1st ICW, at Griffeen Valley Park, on the 4th July 2022



- INFORMATION
SIGNS FOR
THE PROJECT



COMMUNITY PLANTING DAY





- CONSTRUCTION
PHOTOS OF ICW















