APPROXIM	DRAIN TO OUTFALL. DESIGNED AND INSTALLED BY OTHERS (LES COTTON).
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DRAINAGE MANAGEMENT DURING THE CONSTRUCTION PHASE.

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IT IS PROPOSED THAT THE WETLAND/ATTENUATION POND IS CONSTRUCTED AT AN EARLY STAGE SO THAT IT CAN BE USED AS A MEANS TO CONTROL SILT FLOWS TO THE WATERCOURSE. IT IS RECOMMENDED THAT CUT-OFF DITCHES ARE CONSTRUCTED WHICH WILL DIRECT FLOWS DURING CONSTRUCTION INTO THE POND. THE POND WILL HAVE A MINIMUM DEPTH OF 300mm WHICH WILL PROVIDE SUFFICIENT ROOM FOR SILTS TO SETTLE. THE POND WILL BE SUBJECT TO REGULAR INSPECTION TO ENSURE THAT ANY BUILDUP OF SILTS ARE REMOVED PROMPTLY. WITH THIS MITIGATION IN PLACE, THE WATER BEING DISCHARGED WILL REMAIN IN COMPLIANCE WITH THE ENVIRONMENTAL QUALITY STANDARD FOR SURFACE WATER, i.e. 40 mg/I OF SEDIMENT. IN ADDITION TO THE ABOVE, AN OIL ABSORPTION AND DEBRIS BOOM WILL BE PLACED IN FRONT OF THE POND OUTFALL.

A MONITORING REGIME WILL BE DEVELOPED FOR THE WATER BEING DISCHARGED IN ORDER TO TRACK TURBIDITY, pH AND OVERALL QUALITY. IN THE EVENT THAT QUALITY DECREASES FURTHER, TREATMENT MEASURES CAN THEN BE PUT IN PLACE.

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— DRAINAGE OUTFALL DETAILS AND POSITIONING BY OTHERS (LES COTTON). E = 611764.588

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N = 275192.154 INVERT LEVEL = 42.170m AOD.



SCALE 1:300

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DRAINAGE THERE ARE NO RISKS UNFAMILIAR TO A COMPETE ALL BACKGROUND INFORMATION IS INDICATIVE

 SAFE METHODS OF WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE IDENTIFIED IN THE HEALTH AND SAFETY PLAN.
 Designed
 Drawn

 M.Patterson
 T.Peeling

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M.Patterson T.Peeling

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1. DO NOT SCALE, WORK TO DIMENSIONS SHOWN. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE. 2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL EXISTING SERVICES WITHIN THE WORKS AREA AND FOR THE STRUCTURAL STABILITY THROUGHOUT THE WORKS.

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5. THE TERM 'ENGINEER' REFERS TO PATTERSON REEVES & PARTNERS. 6. THE TERM 'CONTRACTOR' REFERS TO THE CONTRACTOR RESPONSIBLE FOR THE

INDIVIDUAL ELEMENT OF THE WORKS. 7. ANY CONTRACTOR RESPONSIBLE FOR THE PLANNING AND EXECUTION OF ANY EXCAVATION WORKS SHOULD BE AWARE OF HSG47 - AVOIDING DANGER FROM

UNDERGROUND SERVICE.

8. SIEMENS ENERGY ARE RESPONSIBLE FOR SIZING OF DRAWPITS. THE SIZES OFFERED ARE STANDARD CUBIS SIZES AND ARE BASED ON THE SIEMENS ENERGY PRIMARY LAYOUT. SIEMENS ENERGY TO REVIEW AND ACCEPT.

9. FOR ADDITIONAL CONSTRUCTION NOTES REFER TO D069-SEL-V00-400-DD-C-0027.

					SURI	ACE WATER CHAN	IBERS
	COVER LEVEL	OUTLET INVERT	OUTLET INVERT	CHAMBER DEPTH	SOP EASTING	SOP NORTHING	
REFERENCE	(m)	LEVEL (m)	DEPTH (mm)	(mm)	(m)	(m)	
SWCP 01	46.600	45.672	928	1228	611935.796	274961.473	
SWCP 02	46.600	45.639	961	1261	611921.000	274974.520	
SWCP 03	46.600	45.545	1055	1355	611935.095	274987.817	
SWCP 04	46.600	45.309	1291	1591	611887.450	274994.096	
SWCP 05	46.600	45.663	938	1238	611881.269	274983.325	
SWCP 06	46.600	45.540	1060	1360	611856.174	274986.629	
SWCP 07	46.600	45.106	1494	1794	611846.475	275000.153	
SWCP 08	46.600	44.889	1712	2012	611802.081	275002.415	
SWCP 09	46.600	45.538	1062	1362	611930.081	274934.438	
SWCP 10	46.600	45.433	1167	1467	611908.336	274937.301	
SWCP 11	46.600	45.778	822	1122	611873.087	274951.432	
SWCP 12	46.600	45.254	1346	1646	611871.858	274942.103	
SWCP 13	46.600	45.094	1506	1806	611839.588	274947.837	
SWCP 14	46.600	45.623	977	1277	611795.371	274953.658	
SWCP 15	46.600	44.963	1637	1937	611812.755	274951.369	
SWCP 16	46.600	44.821	1779	2079	611816.577	274980.404	
SWCP 17	46.000	44.472	1528	1828	611785.164	274984.538	
SWCP 18	45.700	44.061	1639	1939	611766.988	275008.225	
SWCP 19	45.600	43.700	1900	2200	611766.528	275030.494	HYDROBRAKE CHAME
SWCP 20	45.200	43.595	1605	1905	611750.106	275044.874	
SWPEN 01	46.600	45.467 ~	1133	1433	611861.330	274953.893	OUTLET 200mm LOW
SWPEN 02	46.600	44.540	2060	2360	611799.477	274982.655	OUTLET 200mm LOW

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RODDING EYES										
REFERENCE	COVER LEVEL (m)	OUTLET INVERT LEVEL (m)	outlet invert Depth (mm)	SOP EASTING (m)	SOP NORTHING (m)	COMMENT				
RE 01	46.600	45.672	928	611919.158	274981.123					
RE 02	46.600	45.672	928	611920.005	274966.96					
RE 03	46.600	45.672	928	611855.339	274980.253					
RE 04	46.600	45.672	928	611844.049	274981.74					
RE 05	46.600	45.672	928	611840.903	274957.841					
RE 06	46.600	45.672	928	611796.796	274964.452					
RE 07	46.600	46.050	550	611889.045	274936.001					

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				OILY WATER	CHAMBERS
REFERENCE	COVER LEVEL (m)	OUTLET INVERT LEVEL (m)	OUTLET INVERT DEPTH (mm)	CHAMBER DEPTH (mm)	SOP EASTING (m)
OWPEN 01	46.600	45.750	850	1150	611868.254
OWPS 01	46.600	45.200	1400	1700	611871.344

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CHAMBERS SWCP 17, 18, 19 & 20 ARE LOCATED OUTSIDE THE SUBSTATION SECURITY FENCE LINE. **COVER LEVELS INDICATED ARE APPROXIMATE AND ARE** INTENDED ON BEING 500mm ABOVE FINISHED TOPSOIL LEVEL. FINAL LEVEL TO BE DETERMINED ON SITE.

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oddin	g 30.11.2023	VCP 15 VED	A.Godding	18.01.2024		A.Godding	01	.02.2024	RT LEVE	
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atters	on 30.11.2023	SWPE	N.Patterson	18.01.2024	RE 07	N.Patterson	01	.02.2024	OUTLE CORR	
		7			8				ç)

THIS DRAWING PROVIDES DETAILED INFORMATION RELATING ONLY TO: DRAINAGE

14

ALL BACKGROUND INFORMATION IS INDICATIVE

OVERVIEW & PHILOSOPHY D069-SEL-V00-4 LAYOUT 1 D069-SEL-V00-4 LAYOUT 2 LAYOUT 3 SCHEDULES DETAILS 1 - GENERAL DETAILS 2 - POND DETAILS 3 - OIL SEPARATOR DETAILS 4 - BUND DRAINAGE D069-SEL-V00-40

DRAWING TITLE

D069-SEL-V00-4 D069-SEL-V00-4 D069-SEL-V00-4 D069-SEL-V00-4 D069-SEL-V00-4 D069-SEL-V00-4

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,	NORTHING			COVER LEVEL	OUTLET INVERT	OUTLET INVERT	CHAMBER DEPTH	S
(m)		COMMENT	REFERENCE	E (m)	LEVEL (m)	DEPTH (mm)	(mm)	
					-			
4955.929	F	PENSTOCK ON OUTLET	FWIC 01	46.600	46.036	564	564	6118
4959 376	ſ	PUMPING STATION	FWIC 02	46.600	45.953	647	647	6118

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NSIBILITY OF THE CONTRACTOR AND) SAFETY PLAN.	Designed M.Patterson	Drawn A.Godding	Checked G.Hooper	Approved N.Patterson	Date Jul 2023	Scale N / A	Size A0	Sheet of	01 01	Revision 09	





National Grid Yaxley 400kV Substation, Leys Lane, Yaxley IP23 8DX SuDS Management & Maintenance Plan

1 Introduction

Sustainable Drainage Systems (SuDS) features are utilised to manage rainfall and use landscape features to deal with surface water. SuDS control the flow rate and volume of water leaving the development area and reduce pollution by intercepting silt and cleaning run-off from hard surfaces.

Like all aspects of drainage systems, SuDS components should be regularly inspected and maintained. This ensures efficient operation and reduces the likelihood of failure. The level of inspection and maintenance will vary depending on the type of SuDS component. Further information on maintenance can be found in The SuDS Manual (CIRIA publication C753).

The SuDS and drainage features for the development are to be privately owned and maintained by the site occupant.

2 Managing SuDS

The SuDS features have been designed for easy maintenance to comprise:

- Regular day to day care litter collection and checking the inlets and outlets where water enters or leaves the SuDS feature.
- Occasional tasks removing any silt that builds up, cutting back and clearing excessive vegetation growth, inspection of outlets, manholes and flow controls.
- Remedial work repairing damage where necessary.

3 Contact

In the event of concern over any matter to do with the SuDS, please contact the site owner/occupant.

4 SuDS Maintenance

The surface water drainage system includes filter drains, pipes and manholes, an attenuation basin and a flow control.

Surface water generated by the hardstanding area is collected by filter drains and directed to the attenuation basin via a series of pipes. Surface water is then directed to the outfall via a flow control and pipe.

Table 1 below provides a breakdown of general maintenance requirements to be undertaken, appropriate to the types of SuDS and surface water drainage systems proposed at this site.



Regular Maintenance	Frequency				
1 Litter Management Check for and pick up litter around the entire site.	Monthly or as required				
2 Inlets and Outlets Remove silt and debris from inlets and outlets.	Quarterly or as required				
3 Respond to reported blockages, etc.	As required				
Occasional Maintenance	Frequency				
4 Inspection of Control Chamber Inspection of chambers for silt build up and visually check pipes appear clear and free flowing. Remove silt as required. Jetting as required.	Annually				
5 Inspection of Attenuation Check for blockages within the connecting pipes.	Quarterly and following heavy storms				
Remedial Work Frequency					
6 Inspect SuDS systems to check for damage or failure Undertake remedial work as required.	Annually				
7 Silt control and removal Wash or replace filter medium when required.	As required				

Table 1: SuDS General Maintenance Requirements

Tables 2 to 5 below provides a breakdown of typical maintenance requirements appropriate to the types of SuDS proposed at this site.

Haydn Evans Consulting Ltd is a company registered in England & Wales. Company no. 03902427 Registered Office Second Floor, Hyde Park House, Crown Street, Ipswich, IP1 3LG



Operation and Maintenance Requirements for Detention Basins					
Responsible for Maintenance	Site Owner/Occupier				
Maintenance Schedule	Required Action	Typical Frequency			
	Remove litter and debris.	Monthly			
	Cut grass - for spillways and access routes.	Monthly (during growing season), or as required.			
	Cut grass - meadow grass in and around basin.	Half yearly (spring - before nesting season, and autumn)			
	Manage other vegetation and remove nuisance plants.	Monthly (at start), then as required			
	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly			
Regular maintenance	Inspect banksides, structures, pipework etc for evidence of physical damage.	Monthly			
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies.	Monthly (for first year), then annually or as required			
	Check any penstocks and other mechanical devices.	Annually			
	Tidy all dead growth before start of growing season.	Annually			
	Remove sediment from inlets, outlets and forebay.	Annually, or as required			
	Manage wetland plants in outlet pool, where provided.	Annually			
	Reseed areas of poor vegetation growth	As required			
Occasional maintenance	Prune and trim any trees and remove cuttings	Every 2 years, or as required			
	Remove sediment from inlets, outlets, forebay and main basin when required	Every 5 years, or as required (likely to be minimal requirements where effective upstream source control is provided)			
Remedial actions	Repair erosion or other damage by reseeding or re- turfing.	As required			
	Realignment of rip-rap.	As required			
	Repair/rehabilitation of inlets, outlets and overflows.	As required			
	Relevel uneven surfaces and reinstate design levels.	As required			

Table 2: Site specific maintenance requirements - Detention Basin

Engineering technical excellence

Haydn Evans Consulting Ltd is a company registered in England & Wales. Company no. 03902427 Registered Office: Second Floor, Hyde Park House, Crown Street, Ipswich, IP1 3LG



Operation and Maintenance Requirements for Pipes and Manholes					
Responsible for Maintenance	Site Owner/Occupier				
Maintenance Schedule	Required Action	Typical Frequency			
Regular	Remove cover and inspect, ensuring that water is flowing freely and that the exit route for water is unobstructed. Remove debris and silt.	Annually and after leaf fall in autumn			
inspections	Jetting pipes or poor performance to assess requirements for CCTV survey and potential replacement pipes.	Annually or as required			
Remedial action Repair physical damage if necessary. As required					

Table 3: Site specific maintenance requirements - Pipes and manholes

Operation and Maintenance Requirements for a Flow Control				
Responsible for Maintenance	Site Owner/Occupier			
Maintenance Schedule	Required Action	Typical Frequency		
Routine maintenance	Remove litter and debris and inspect for sediment, oil and grease accumulation	Six monthly		
	Remove sediment, oil, grease and floatables	As necessary - indicated by system inspections or immediately following significant spill		
Remedial actions	Replace malfunctioning parts or structures	As required		
Monitoring	Inspect for evidence of poor operation	Six monthly		
	Inspect sediment accumulation rates and establish appropriate removal frequencies	Monthly during first half year of operation, then every six months		

Table 4: Site specific maintenance requirements - Flow control

01473 236550 / mail@haydnevans.co.uk / www.haydnevans.co.uk



Operation and Maintenance Requirements for Filter Drains					
Responsible for Maintenance	Developer/Household				
Maintenance Schedule	Required Action	Typical Frequency			
Regular maintenance	Remove litter (including leaf litter) and debris from filter drain surface, access chambers and pre-treatment devices	Monthly, or as required			
	Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage	Monthly			
	Inspect pre-treatment systems, inlets and perforated pipework for silt accumulation, and establish appropriate silt removal frequencies	Six monthly			
	Remove sediment from pre-treatment	Six monthly, or as required			
Occasional maintenance	Remove or control tree roots where they are encroaching the sides of the filter drain, using recommended methods (eg NJUG, 2007 or BS 3998:2010)	As required			
	At locations with high pollution loads, remove surface geotextile and replace, and wash or replace overlying filter medium	Five yearly, or as required			
	Clear perforated pipework of blockages	As required			

Table 5: Site specific maintenance requirements - Filter drain

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Legend



Application Boundary

Easement for high voltage cables



Existing Vegetation Retained

Approved planting to be undertaken as part of the Yaxley Substation development (Refer Landscape Masterplan D6492.002H)



Low Maintenance Grass Verge Germinal A22 Low Maintenance Mix (Or Similar)

Understorey Woodland Seed Mix Emorsgate EW1 - 4gms/m² (Or Similar)

Refer Planting Schedules Dwg 059-12-03 (S73)

WF







Standard Trees Acer Campetre (Ac) Sorbus torminalis (St) (Ac)

Planted at 1.5m Centres

Meadow Seed Mix

Pond Edge Seed Mix

Emorsgate EM1 - 4gms/m² (or Similar)

Emorsgate EP1 - 4gms/m² (Or Similar) Native Woodland Mix

Quercus robur (Qr) Quercus patrea (Qp)



(Bp) (Pa)

Prunus avium



Mixed Native Hedgerow Planted at 7 Plants per Lin M Refer Planting Schedule Dwg 059-12-03 (S73)



Proposed earth mounding Refer to Drawing 059-12-02 (S73) Hard Works



Wildlife Hibernacula Refer Detail Opposite

Palisade Fence Refer to Drawing 059-12-02 (S73) Hard Works

For Planting Schedules Ref Dwg 059-12-03 (S73)

For Planting Specifications Ref Dwg 059-12-04 (S73)

For Earth Mounding and Topsoil Depths Ref Dwg 059-12-02 (S73)

Client Conrad	Client Conrad Energy Limited					
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DRaW (UK) Itd Morwick Hall York Road Leeds LS15 4TA t: 0113 8232871 www.draw-Itd.com						

Feathered Trees Betula pendula