GEOTEXTILE WARP EMBEDDED INTO BENAMENENT TO PREVENT PREFERENTIAL FLOW ALONG EDGE OF GABION BASKET 7.01-4.00th FLITRATION STONE PLACED PRIOR TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GABIONS 7.01-4.00th FLOW THAT THE TOWN CONSTRUCTED FROM TO GROW THAT THE TOWN CONSTRUCTED FROM TO COLLECTOR DITCH INLET DIVERT ROADSIDE DITCH INTO SETTLEMENT POND TO PREVENT OVERFLOW THE PREVENT OVERFLOW TO PREVENT OVERFL

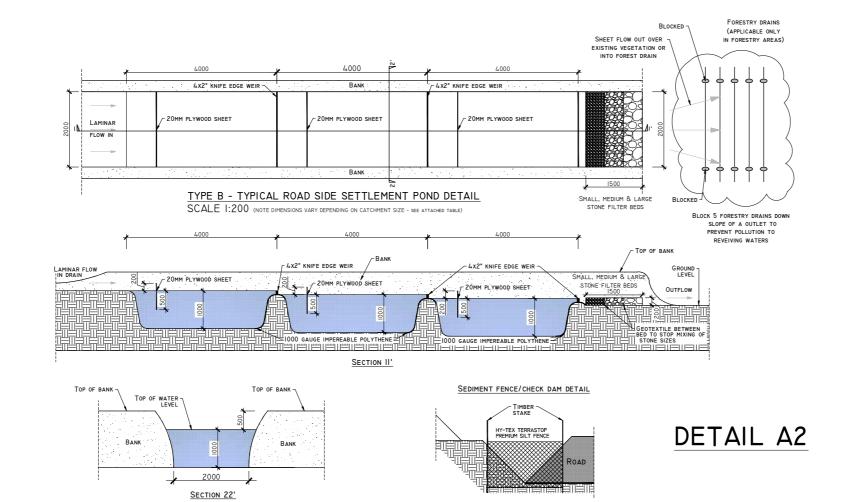
SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE DRAINAGE SHEETS)

DETAIL AI

POND SIZE W [M] X L [M] X D [M]		CATCHMENT SIZE (M2)			
RETURN PERIOD	50 YRS	STORM DURATION	500	1000	2000
6HR RETENTION I	FOR COARSE SILT	6 HRS	2.8 x 9 x l m	4 x 13 x 1 m	5.7 x 18 x I M
IIHR RETENTION	FOR MEDIUM SILT	I2 HRS	3.2 x 10 x 1 m	4.5 x 4 x M	6.4 x 20 x l m
24HR RETENTION	N FOR FINE SILT	24 HRS	3.5 x II x I m	5 x 16 x 1 m	7 x 22 x l m

EMBANKMENTS TO BE CONSTRUCTED FROM SUITABLE EXCAVATED MATERIALS. POST CONSTRUCTION PHASE EMBANKMENT MATERIALS TO BE USED TO INFILL POND.

PHASING OF INFILL TO BE AGREED WITH SUDS DESIGNER PERMENANT WATER LEVEL > OUTFLOW CONTROL LEVEL TO BE SET 500MM
BELOW TOP OF GABION GABION BASKET IN SETTLEMENT POND EDIMENT FOREBAY FOREBAY TO BE CLEANED 11250 3000 OUT REGULARLY DISCHARGE COLLECTOR DITCH 1000 BED SLOPE 1:50MAX ACCESS TRACK 800, 8 -100mm single sized stone INLET PLACED AT ENTRANCE TO SETTLEMENT POND AND AND WITHIN FOREBAY AREA - GEOTEXTILE L SILT WILL COLLECT IN THE BASE OF THE SETTLEMENT POND. THIS WILL HAVE TO BE CLEANED OUT REGULARLY. SILT BUILD UP SHOULD BE MONITORED ON SITE. DISCHARGE LEVEL **SECTION** SECTION –(ZZ') SCALE 1:100 SCALE 1:100



05/07/22 Planning MG MG
Date Description Chkd Signed
Revisions



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Dungarvan tel: +353 (0) 58-4244

Co. Waterford email: info@hydroenviron web: www.hydroenviron

ent:
Kocknamork Ltd

Job: Proposed Substation, Underground Cabling,
Access Roads to Knocknamork Renewable
Energy Development

Title:

Date: 05/07/2022

DRAINAGE DETAILS I

rigure No:	D50I	
Drawing No: P1421-1-0722-A1-D501-00A		
Sheet Size: A1	Project No.: P1421-1	
Scale: as shown (A1)	Drawn By: MG/GD	

Checked By: M.G.

DETAIL BI

ROAD LEVEL CAPPING MATERIAL/ ROAD CONSTRUCTION REFER TO CLIENT STANDARD DETAIL DRAINAGE PIPE, DIAMETER VARIES FILL MATERIAL TO CL. 503.5 (1) OF THE NRA SPEC. FOR ROADWORKS TRENCH WIDTH= X +300 Min.

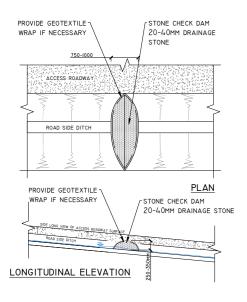
'TYPE B' CULVERT - DRAINAGE CROSSING BENEATH EXCAVATED ROAD

COUTFALL PROTECTION BERM COLLECTOR DITCH-ACCESS ROAD OUTFALL PROTECTION BERN TOE OF BANK CULVET FORESTRY PROPOSED CULVET SILT FENCE ACCESS ROAD TOE OF BANK COLLECTOR DITCH PLAN IZOMETRIC VIEW CULVET - OUTFALL PROTECTION DETAIL

SCHEMATIC - NOT TO SCALE

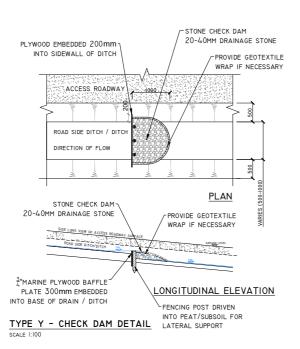
DETAIL C

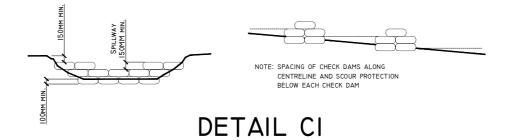
DETAIL B



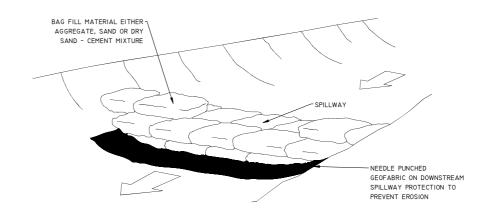
TYPE X - CHECK DAM DETAIL

DETAIL D

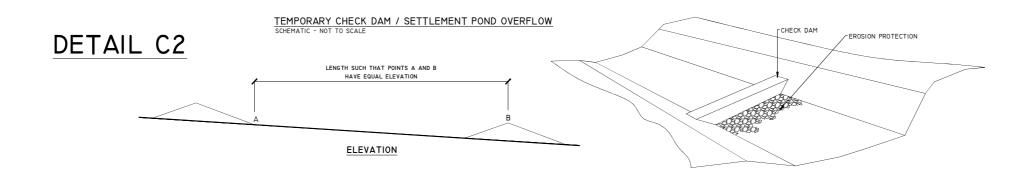




EXISTING FORESTRY DRAINS



TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW
SAND FILLED BAG CONSTRUCTION



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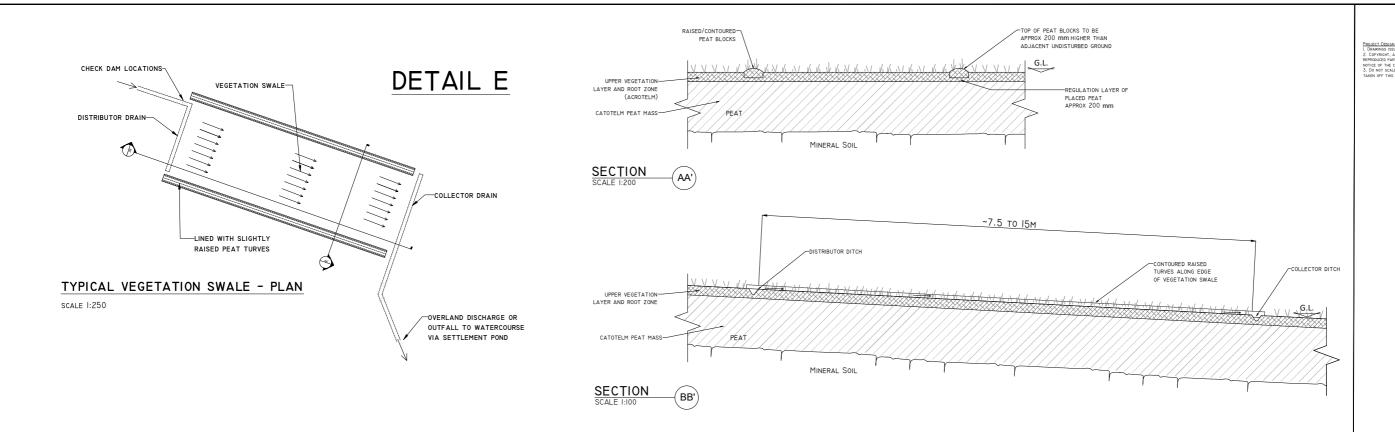
Co. Waterford email: info@hydroenvironmental.ii

nt:
KOCKNAMORK LTD

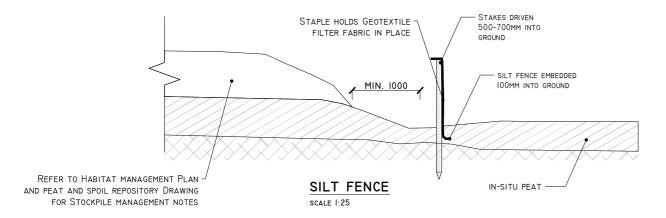
Job: PROPOSED SUBSTATION, UNDERGROUND CABLING, ACCESS ROADS TO KNOCKNAMORK RENEWABLE ENERGY DEVELOPMENT

itle:
Drainage Details 2

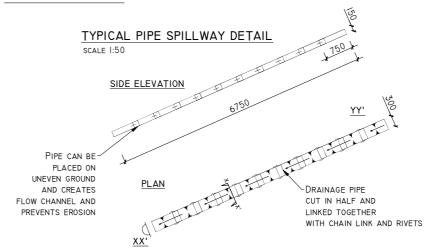
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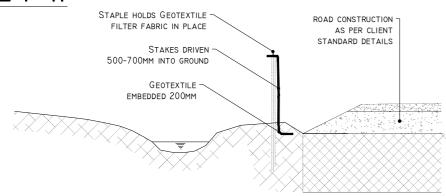
DETAIL F-I



DETAIL G



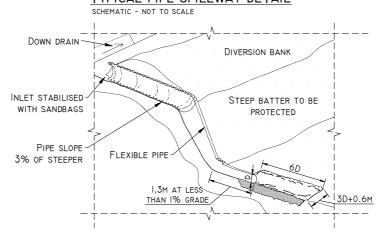
DETAIL F-II



SILT FENCE FOR WATERCOURSE PROTECTION

SCALE 1:25

TYPICAL PIPE SPILLWAY DETAIL



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Date	Description	Chkd	Signed

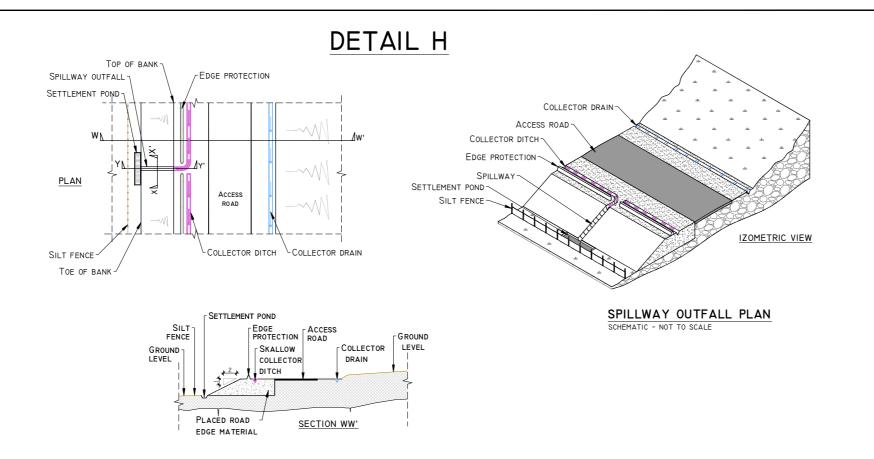


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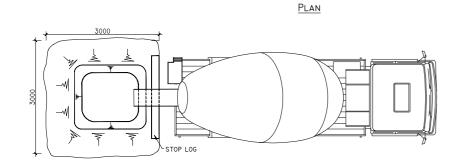
Job: PROPOSED SUBSTATION, UNDERGROUND CABLING, ACCESS ROADS TO KNOCKNAMORK RENEWABLE ENERGY DEVELOPMENT

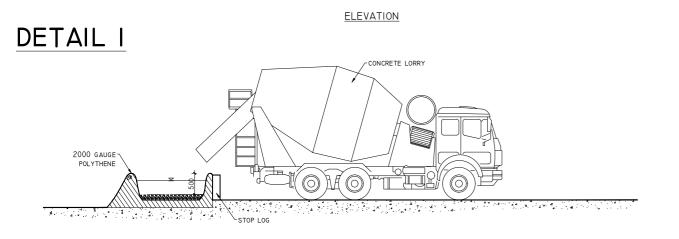
DRAINAGE DETAILS 3

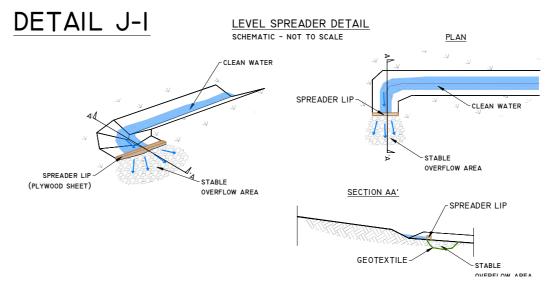
Drawing No: P1421-1-0722-A1-D503-00A		2-A1-D503-00A
	Sheet Size: A1	Project No.: P1421-1
	Scale: as shown (A1)	Drawn By: MG/GD
	Date: 05/07/2022	Chacked By: M.G.



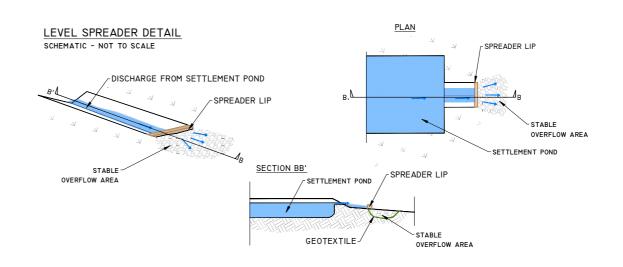
TEMPORARY CONCRETE WASH OUT PIT







DETAIL J-2



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KOCKNAMORK LTD

Job: PROPOSED SUBSTATION, UNDERGROUND CABLING,
ACCESS ROADS TO KNOCKNAMORK RENEWABLE
ENERGY DEVELOPMENT

itle:
Drainage Details 4

Date: 05/07/2022

Figure No:	D504	
Drawing No: P1421-1-0722-A1-D504-00A		
Sheet Size: A1	Project No.: P1421-1	
Scale: as shown (A1)	Drawn Bv: MG/GD	

Checked By: M.G.