



APPENDIX 4-6

DRAINAGE DESIGN DRAWINGS

POLLUTION PREVENTION NOTES:

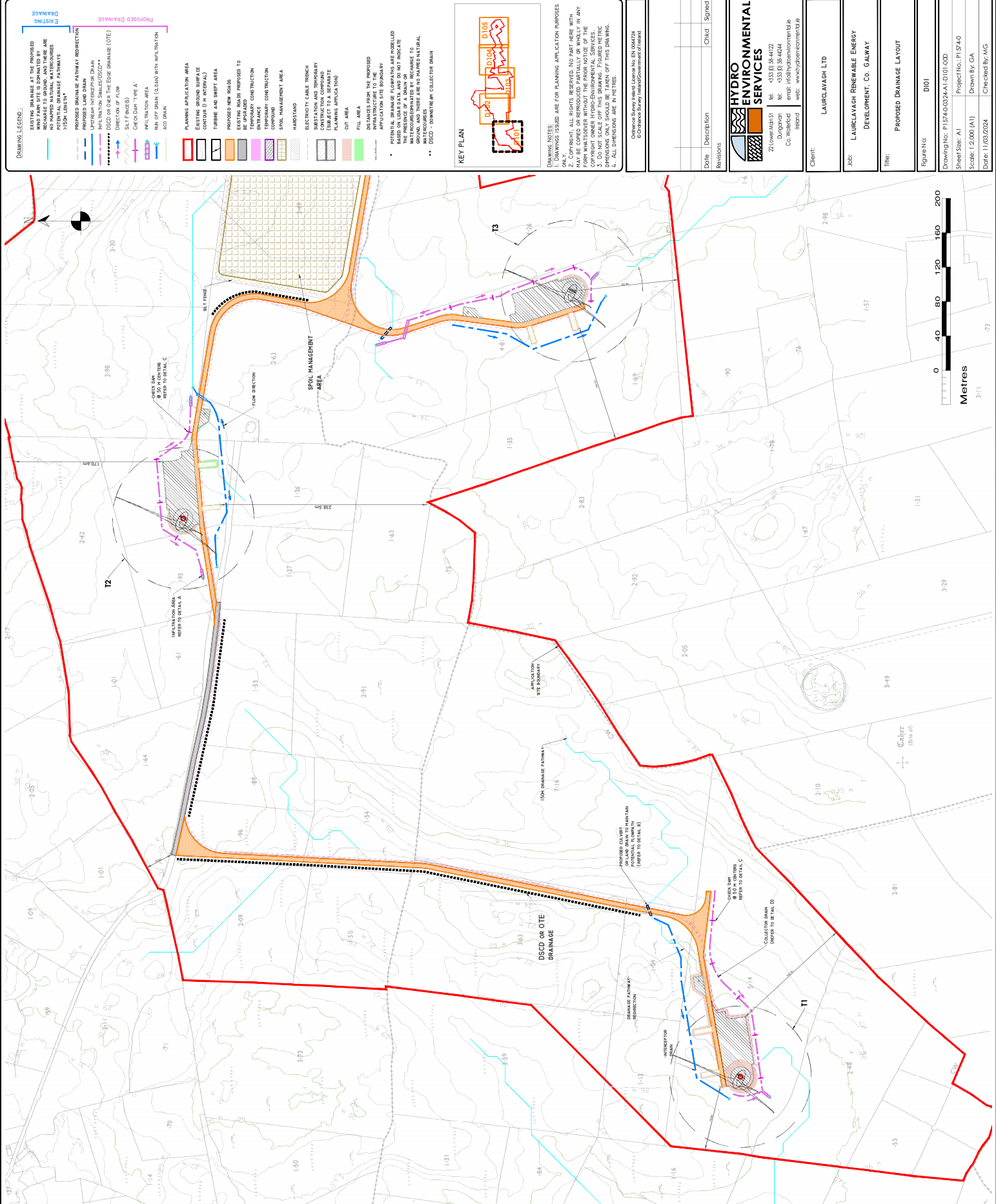
1. ALL POLLUTION PREVENTION MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF THE PROJECT.
2. POLLUTION PREVENTION MEASURES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE PROJECT.
3. SILT FENCES SHALL BE INSTALLED AT ALL EXISTING AND NEW CONSTRUCTION SITES.
4. ALL DRAINAGE CHANNELS TO BE MADE OPEN AND GRADED TO INFILTRATION PITS OR TO STORM DRAINS.
5. ALL DRAINAGE CHANNELS TO BE MADE OPEN AND GRADED TO STORM DRAINS.
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PERMITS AND APPROVALS:

- 1. THE CLIENT HAS OBTAINED ALL NECESSARY PERMITS AND APPROVALS FOR THIS PROJECT.
- 2. THE CLIENT HAS OBTAINED ALL NECESSARY PERMITS AND APPROVALS FOR THIS PROJECT.
- 3. THE CLIENT HAS OBTAINED ALL NECESSARY PERMITS AND APPROVALS FOR THIS PROJECT.
- 4. THE CLIENT HAS OBTAINED ALL NECESSARY PERMITS AND APPROVALS FOR THIS PROJECT.
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- 20. THE CLIENT HAS OBTAINED ALL NECESSARY PERMITS AND APPROVALS FOR THIS PROJECT.

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
2. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
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19. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
20. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.



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SHEET NO: A1
PROJECT NO: P15240
DRAWING NO: P15240-01
DATE: 11/03/2024
DRAWN BY: GA
CHECKED BY: NG

PLANNING APPLICATION NOTES:

1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY.
2. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT THE PRIOR NOTICE OF THE APPLICANT.
3. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT THE PRIOR NOTICE OF THE APPLICANT.
4. ALL DIMENSIONS ARE IN METRES.

REVISIONS:

Date	Description	Chkd	Signed



Drainage Legend:

- EXISTING DRAINAGE
- PROPOSED DRAINAGE PATHWAY RESTRICTION
- PROPOSED DRAINAGE PATHWAY
- PROPOSED DRAINAGE PATHWAY RESTRICTION
- PROPOSED DRAINAGE PATHWAY
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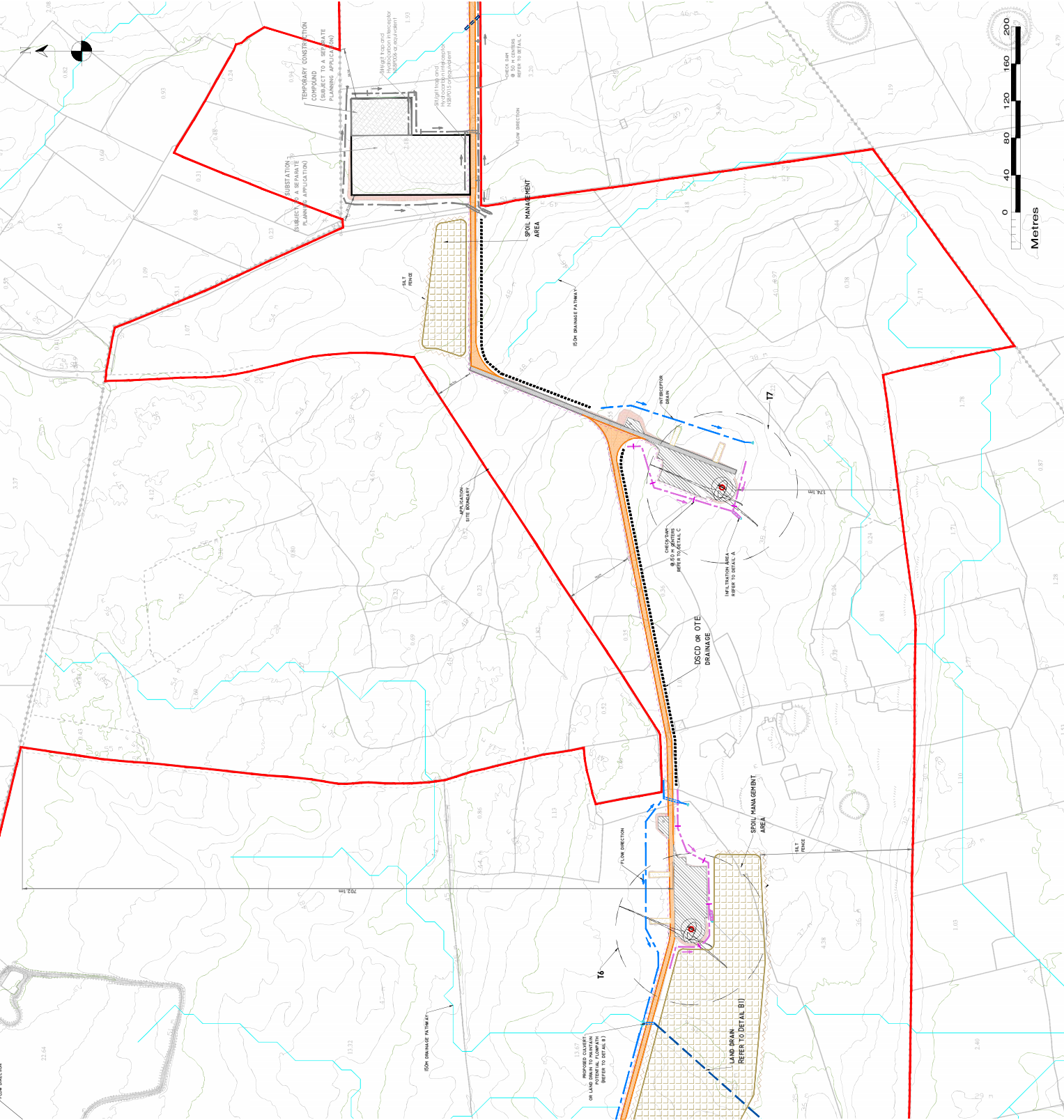
DRAINAGE NOTES:

1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY. ALL DIMENSIONS, LEVELS, AND FINISHES MAY BE CORRECTED OR MODIFIED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE CLIENT. A COMPLETE RECORD OF ANY CHANGES MUST BE SUBMITTED TO THE CLIENT WITHIN 30 DAYS OF THE DATE OF THE DRAWING. ALL DIMENSIONS ARE IN METRES.
2. ALL DIMENSIONS ARE IN METRES.
3. ALL DIMENSIONS ARE IN METRES.
4. ALL DIMENSIONS ARE IN METRES.

CLIENT: LAURLAVAGH LTD
JOB: LAURLAVAGH RENEWABLE ENERGY DEVELOPMENT, Co. GALWAY
TITLE: PROPOSED DRAINAGE LAYOUT

Figure No: D103
Drawing No: P15740-03A-1-D103-03D
Sheet Size: A1
Project No.: P15740
Scale: 1:2000 (A1)
Date: 11/03/2024
Drawn By: GA
Checked By: MG

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 Web: www.hydroenvironmental.ie



POLLUTION PREVENTION NOTES:

1. POLLUTION PREVENTION, ELUTION AND REDUCTION.
2. POLLUTION PREVENTION, ELUTION AND REDUCTION.
3. POLLUTION PREVENTION, ELUTION AND REDUCTION.
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20. POLLUTION PREVENTION, ELUTION AND REDUCTION.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE

MANAGEMENT TYPE

DESCRIPTION OF MITIGATION CONTROL

- 1) LONG GRASS WORKING AREAS
- 2) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
- 3) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
- 4) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
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- 19) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
- 20) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS

MANAGEMENT TYPE

DESCRIPTION OF MITIGATION CONTROL

- 1) LONG GRASS WORKING AREAS
- 2) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
- 3) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
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- 19) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS
- 20) WOODPILE ACTIVITIES IN WOODS OR OUTPOSTS

EXISTING DRAINAGE
EXISTING DRAINAGE AT THE PROPOSED REGRADE TO GROUND, AND THERE ARE NO IMPROVED NATURAL WATERCOURSES OR TRENCHES WITH A MINIMUM 1% SLOPE LENGTH

PROPOSED DRAINAGE
PROPOSED DRAINAGE PATHWAY REDIRECTION
PROPOSED LAND DRAIN
ULTRASONIC INTERCEPTOR DRAIN
DISED OR OVER THE EDGE DRAINAGE (OTE)
DIRECTION OF FLOW
SALT FENCES
CHECK DAM TYPE 'A'
INFILTRATION AREA
RAIN OFF DRAIN (CLEAN) WITH INFILTRATION
ADD DRAIN

EXISTING APPLICATION AREA
EXISTING GROUND SURFACE CONTOUR (1 M INTERVAL)
TURFING AND SHEET AREA
PROPOSED NEW ROADS
EXISTING ROADS PROPOSED TO BE UPGRADED
TEMPORARY CONSTRUCTION ENTRANCE
TEMPORARY CONSTRUCTION
SALT MANAGEMENT AREA
HANDSAND
ELECTRICITY CABLE TRENCH
SUBSTATION AND TEMPORARY (SUBJECT TO A SEPARATE PLANNING APPLICATION)
CUT AREA
FILL AREA
DISTANCES FROM THE PROPOSED APPLICATION SITE BOUNDARY
POTENTIAL DRAINAGE BOUNDARIES ARE INDICATED BASED ON LEAN DATA AND DO NOT INDICATE WATERCOURSES OR DRAINAGE TO BE CHANGED TO IMPROVED NATURAL GROUNDS AND THERE ARE NO IMPROVED NATURAL GROUNDS
DISED - DOWNSTREAM COLLECTOR DRAIN

KEY PLAN
DRAINAGE NOTES: 1. DRAWINGS ISSUED ARE FOR PLANNING APPLICATION PURPOSES ONLY. 2. PLEASE NOTE: ALL DRAWINGS BESIDES: NO PART ARE NOT TO BE REPRODUCED OR COPIED OR WHOLE OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE CLIENT. 3. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING. 4. ALL DIMENSIONS ARE IN METRES.

DATE	DESCRIPTION	CHKD	SIGNED

HYDRO ENVIRONMENTAL SERVICES 21 Lower Mac 1/1 Dungraon Co. Leitrim Ireland tel: +353 (0) 86 4412 tel: +353 (0) 86 4424 email: info@hydroenvironmental.ie web: www.hydroenvironmental.ie
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Client: LAURLAVAGH LTD

Job: LAURLAVAGH RENEWABLE ENERGY DEVELOPMENT, Co. GALWAY
--

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D105

Drawing No: P15740-03/24/1-D105-03D

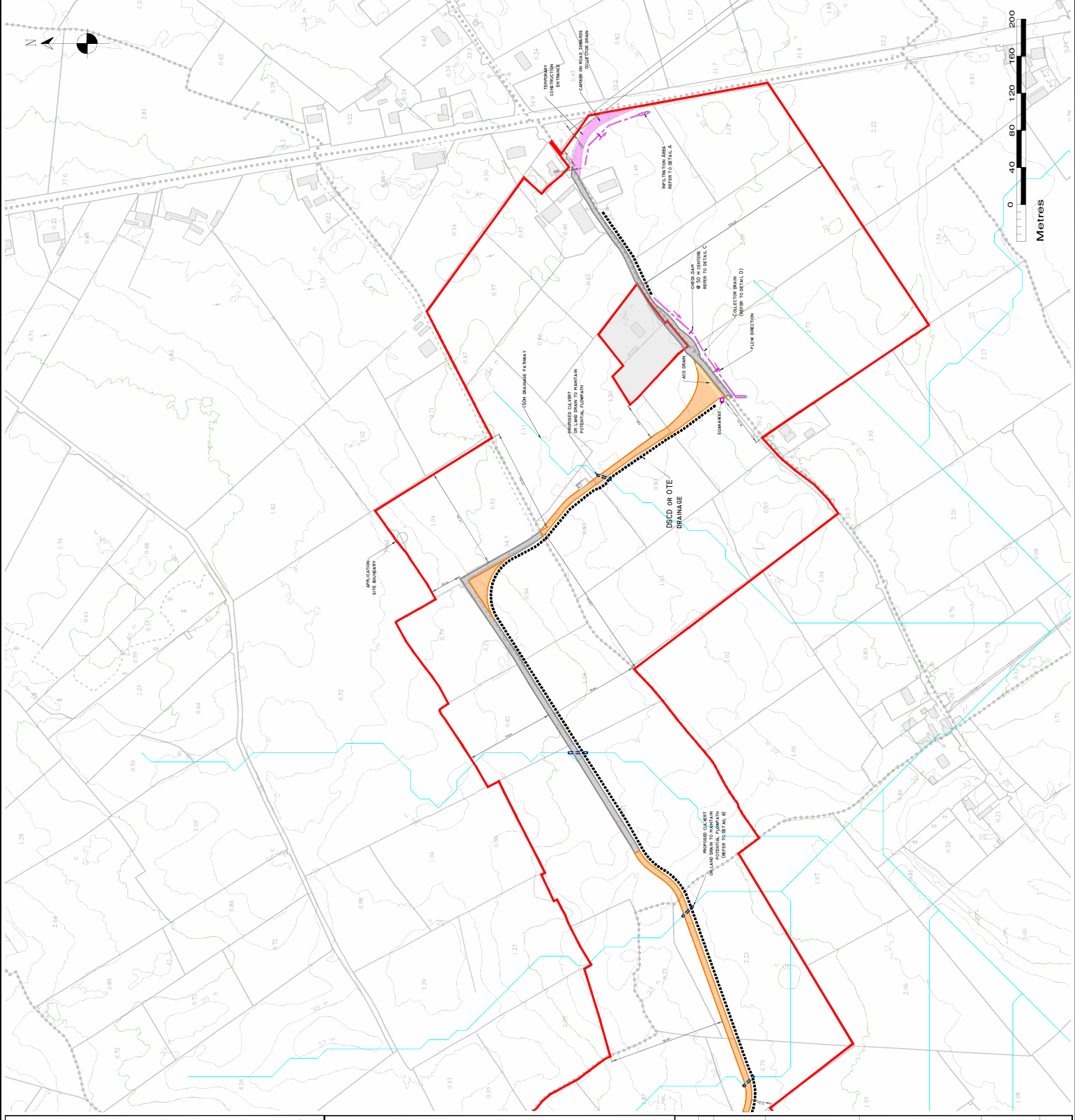
Sheet Size: A1

Scale: 1:2000 (A1)

Drawn By: CA

Date: 11/03/2024

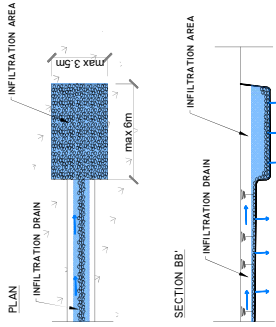
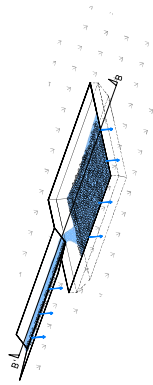
Checked By: AG



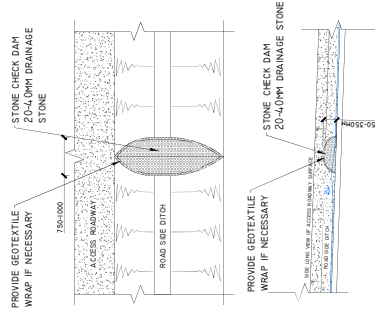
MANAGEMENT TYPE	DESCRIPTION OF SUBS DRAINAGE CONTROL
AVOIDANCE CONTROLS	1) LENS SHALL WORKING AREAS 2) LENS SHALL BE SET UP AND MAINTAINED AT ALL TIMES 3) LENS SHALL BE MAINTAINED AT ALL TIMES 4) LENS SHALL BE MAINTAINED AT ALL TIMES 5) LENS SHALL BE MAINTAINED AT ALL TIMES
SOURCE CONTROLS	1) USE OF SUBS DRAINAGE CONTROL 2) USE OF SUBS DRAINAGE CONTROL 3) USE OF SUBS DRAINAGE CONTROL 4) USE OF SUBS DRAINAGE CONTROL 5) USE OF SUBS DRAINAGE CONTROL
IN-LINE CONTROLS	1) INTERCEPTOR DRAINS, OVERSIZED MALE/COLLECTOR DRAINS 2) INTERCEPTOR DRAINS, OVERSIZED MALE/COLLECTOR DRAINS 3) INTERCEPTOR DRAINS, OVERSIZED MALE/COLLECTOR DRAINS 4) INTERCEPTOR DRAINS, OVERSIZED MALE/COLLECTOR DRAINS 5) INTERCEPTOR DRAINS, OVERSIZED MALE/COLLECTOR DRAINS
WATER TREATMENT CONTROLS	1) TEMPORARY STORM 2) TEMPORARY STORAGE LAGOONS 3) TEMPORARY STORAGE LAGOONS 4) TEMPORARY STORAGE LAGOONS 5) TEMPORARY STORAGE LAGOONS
OUTFALL CONTROLS	1) SALT TRENCH BARRIERS 2) SALT TRENCH BARRIERS 3) SALT TRENCH BARRIERS 4) SALT TRENCH BARRIERS 5) SALT TRENCH BARRIERS

DETAIL A

INFILTRATION AREA SCHEMATIC - NOT TO SCALE



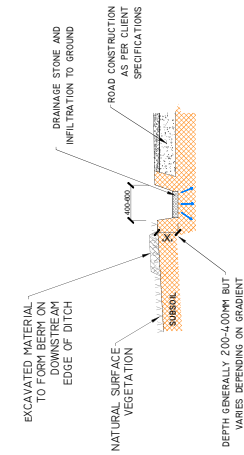
DETAIL C



TYPE X - CHECK DAM DETAIL

SCALE 1:50

DETAIL D

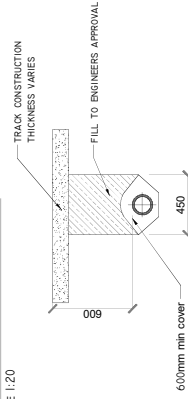


TYPICAL COLLECTOR DITCH WITH INFILTRATION

SCALE 1:50

DETAIL B

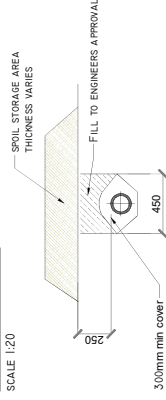
TYPICAL UNDER TRACK DRAINAGE SCALE 1:20



NOTE:
150-300mm DIAMETER UPVC PIPES FOR EXISTING DRAINAGE PATHWAYS TO DISCHARGE TO TRACKSIDE INFILTRATION DRAIN OR INFILTRATION AREA

DETAIL BI

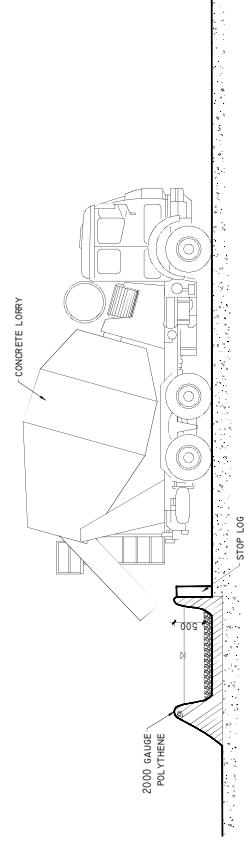
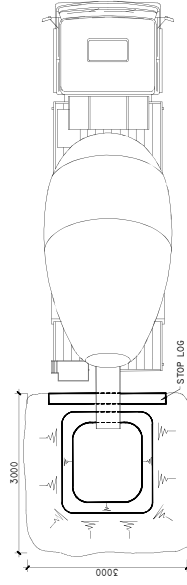
TYPICAL LAND DRAIN SCALE 1:20



NOTE:
150-300mm DIAMETER UPVC PIPES FOR EXISTING DRAINAGE PATHWAYS TO DISCHARGE TO TRACKSIDE INFILTRATION DRAIN OR INFILTRATION AREA

DETAIL E

TEMPORARY CONCRETE WASH OUT PIT SCALE 1:50



PROJECT DESIGN/DRIVING NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK.
3. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE STATED.
4. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE STATED.
5. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE STATED.

Date	Description	Chkd	Signed

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Client: LAURLAVAGH LTD

Job: LAURLAVAGH RENEWABLE ENERGY DEVELOPMENT, Co. GALWAY

Drawn: J.M.S/G.A
 Checked: M.G.

Figure No: D501

Drawing No: P15740-0324A1-D501-008

Sheet Size: A1

Scale: as shown (A1)

Date: 06/03/2024