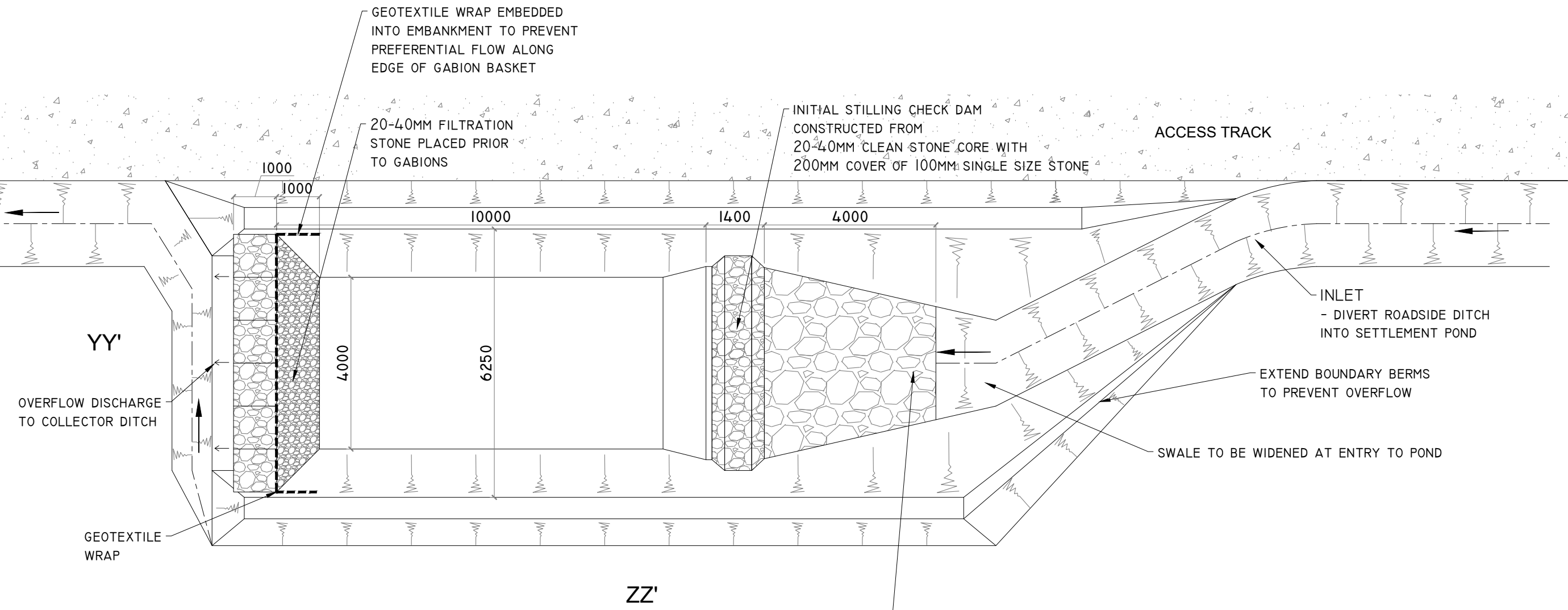


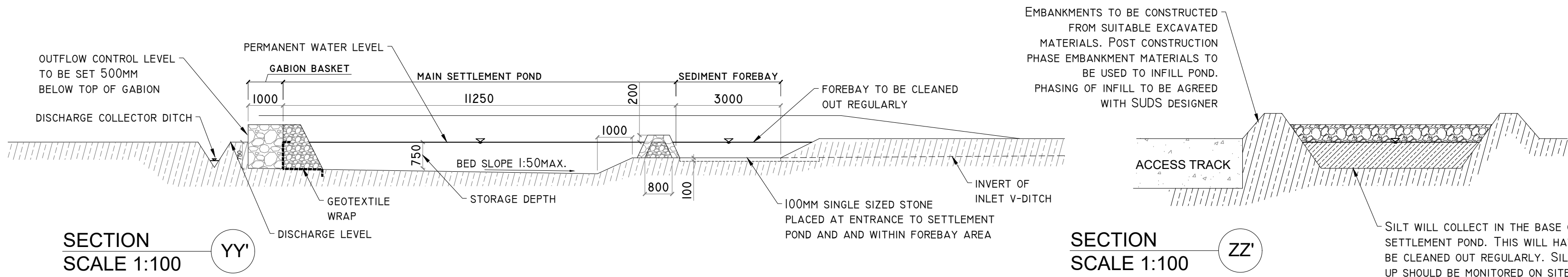


# **APPENDIX 10**

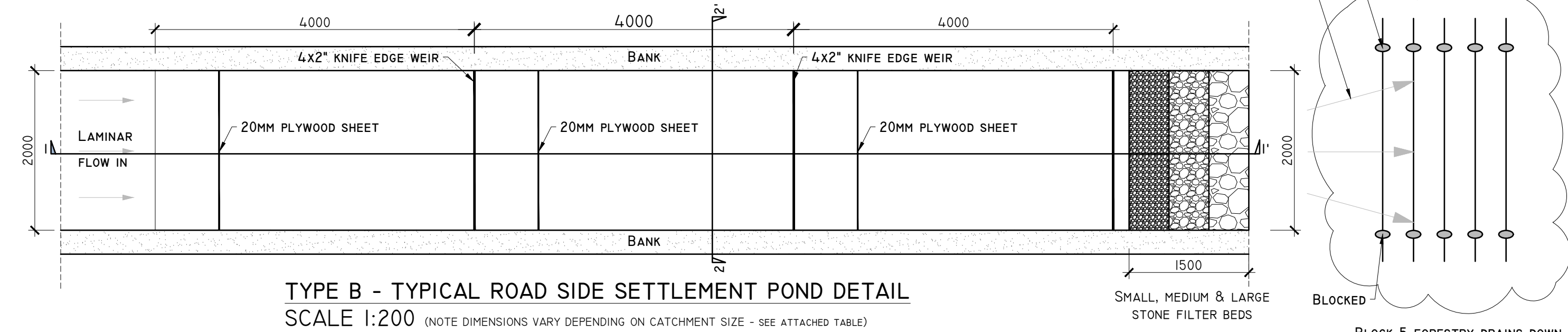
*DRAINAGE DRAWINGS*



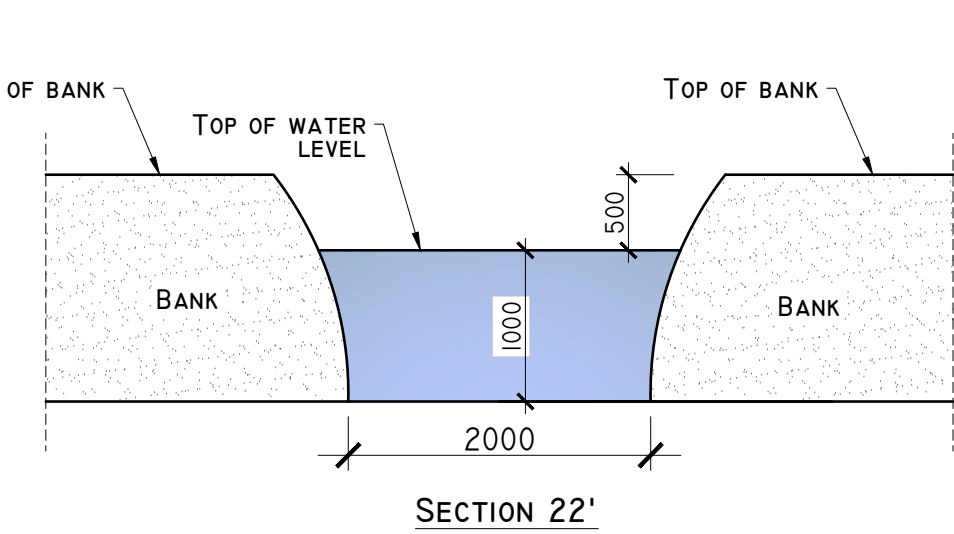
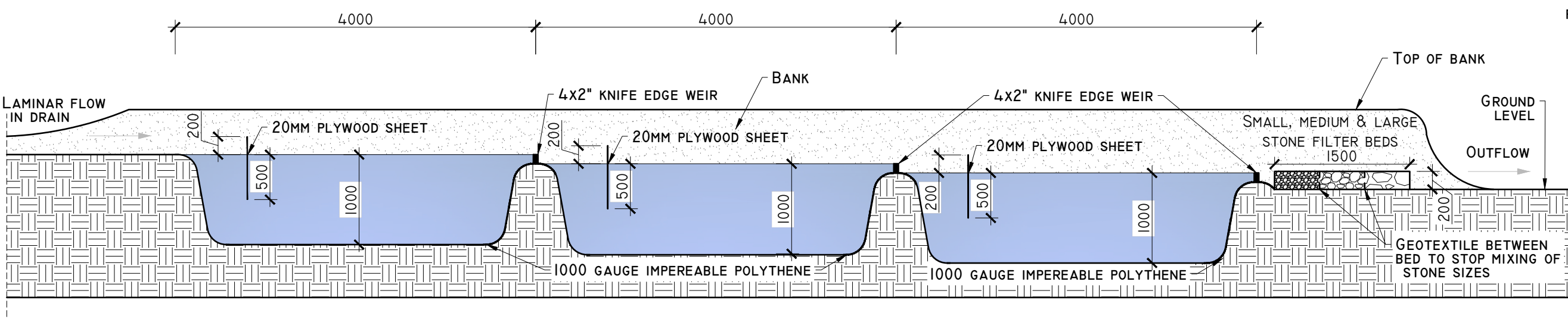
TYPE A - ROAD SIDE SETTLEMENT POND DETAIL  
SCALE 1:100 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)



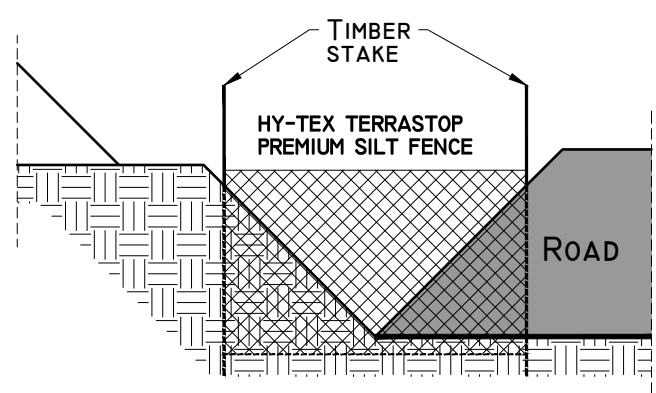
## DETAIL A2



TYPE B - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL  
SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)



SECTION II'  
SEDIMENT FENCE/CHECK DAM DETAIL

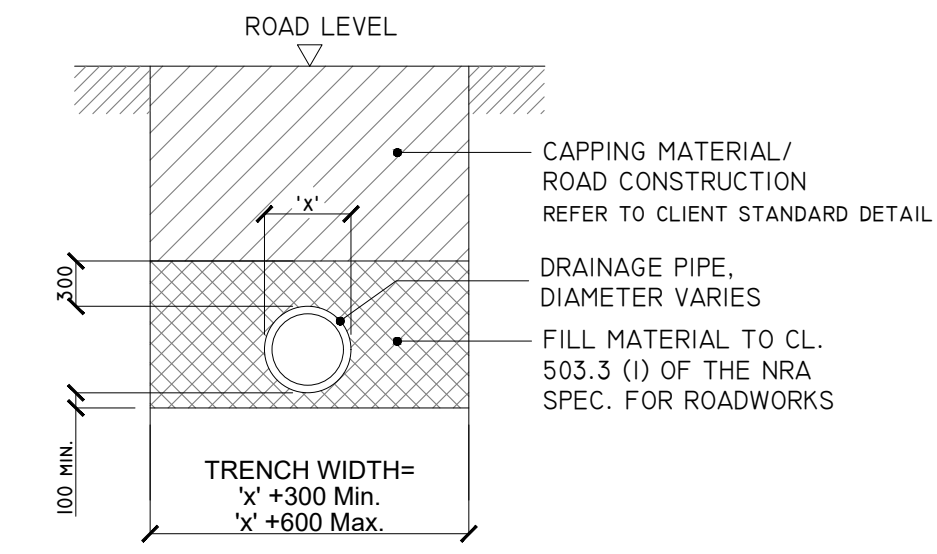


| POND SIZE W [M] x L [M] x D [M] |        |                |                  | TRACK/HARDSTAND CATCHMENT SIZE (M²) |                   |                    | BORROW PIT (M²) |
|---------------------------------|--------|----------------|------------------|-------------------------------------|-------------------|--------------------|-----------------|
| RETURN PERIOD                   | 10 YRS | STORM DURATION |                  | 500                                 | 1000              | 2000               | 5269            |
| 6HR RETENTION FOR COARSE SILT   | 6 HRS  |                | 2.6 x 8.2 x 1 M  | 3.7 x 11.5 x 1 M                    | 5.2 x 16.3 x 1 M  |                    | N/A             |
| 11HR RETENTION FOR MEDIUM SILT  | 12 HRS |                | 4.0 x 12.0 x 1 M | 5.5 x 17.4 x 1 M                    | 8.0 x 24.0 x 1 M  |                    | N/A             |
| 24HR RETENTION FOR FINE SILT    | 24 HRS |                | 6.7 x 20.4 x 1 M | 9.5 x 28.8 x 1 M                    | 13.5 x 40.5 x 1 M | 22.0 x 66.9 x 1 M* |                 |

\*OR 2 x SPs: 15.5 x 47.5 x 1 M

## DETAIL A1

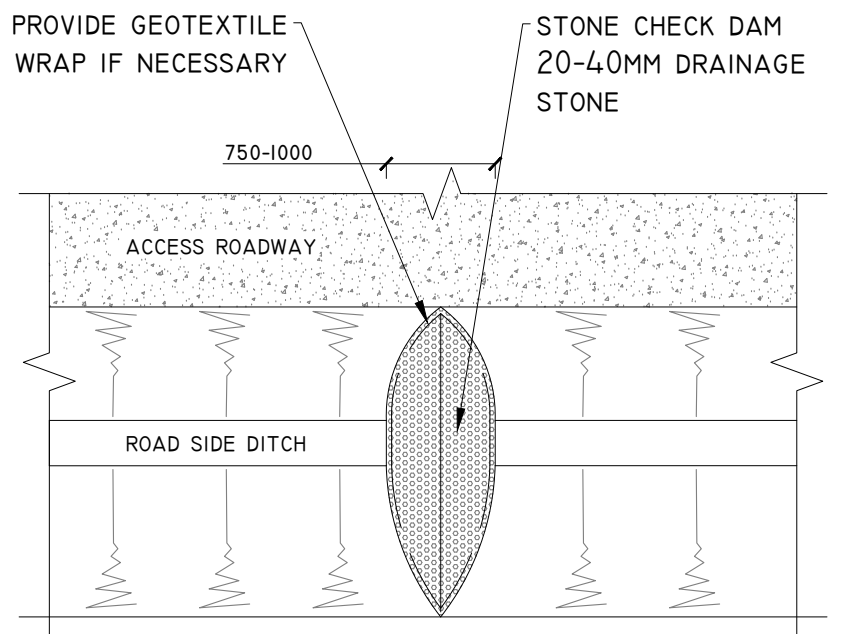
## DETAIL B



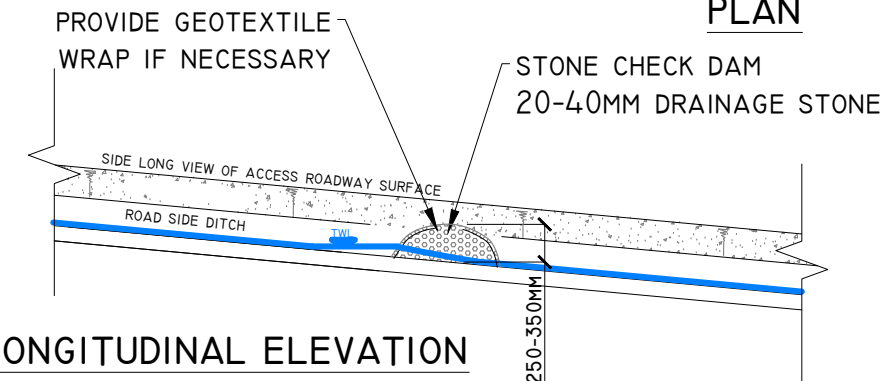
'TYPE B' CULVERT - DRAINAGE CROSSING  
BENEATH EXCAVATED ROAD

SCALE 1:50

## DETAIL C



PLAN

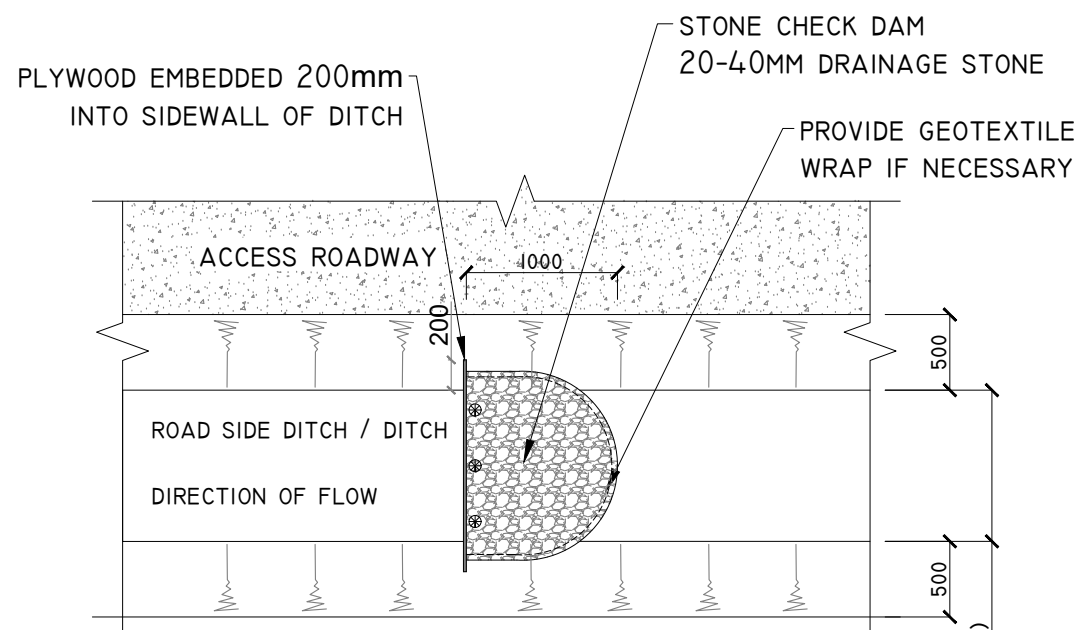


LONGITUDINAL ELEVATION

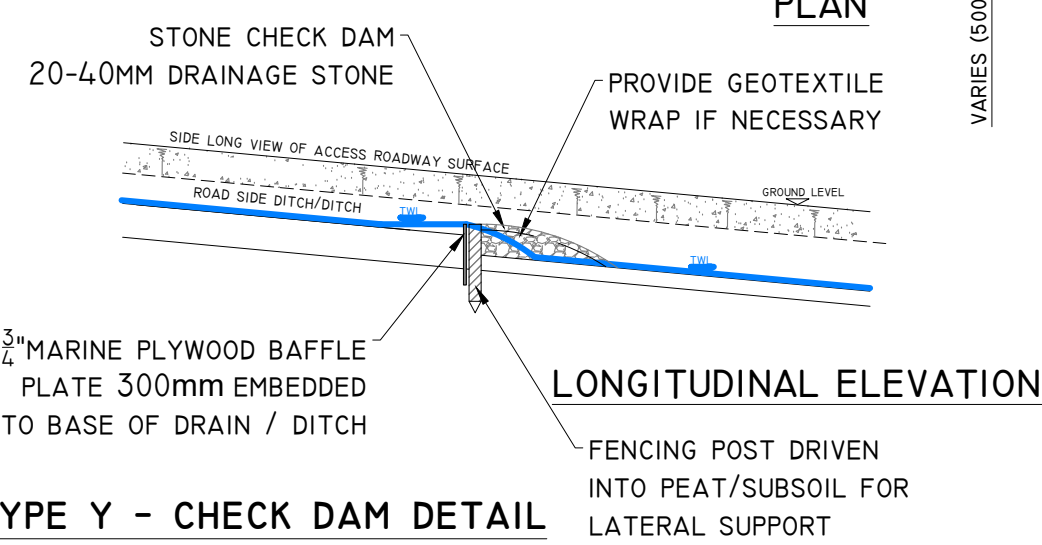
TYPE X - CHECK DAM DETAIL

SCALE 1:50

## DETAIL D



PLAN

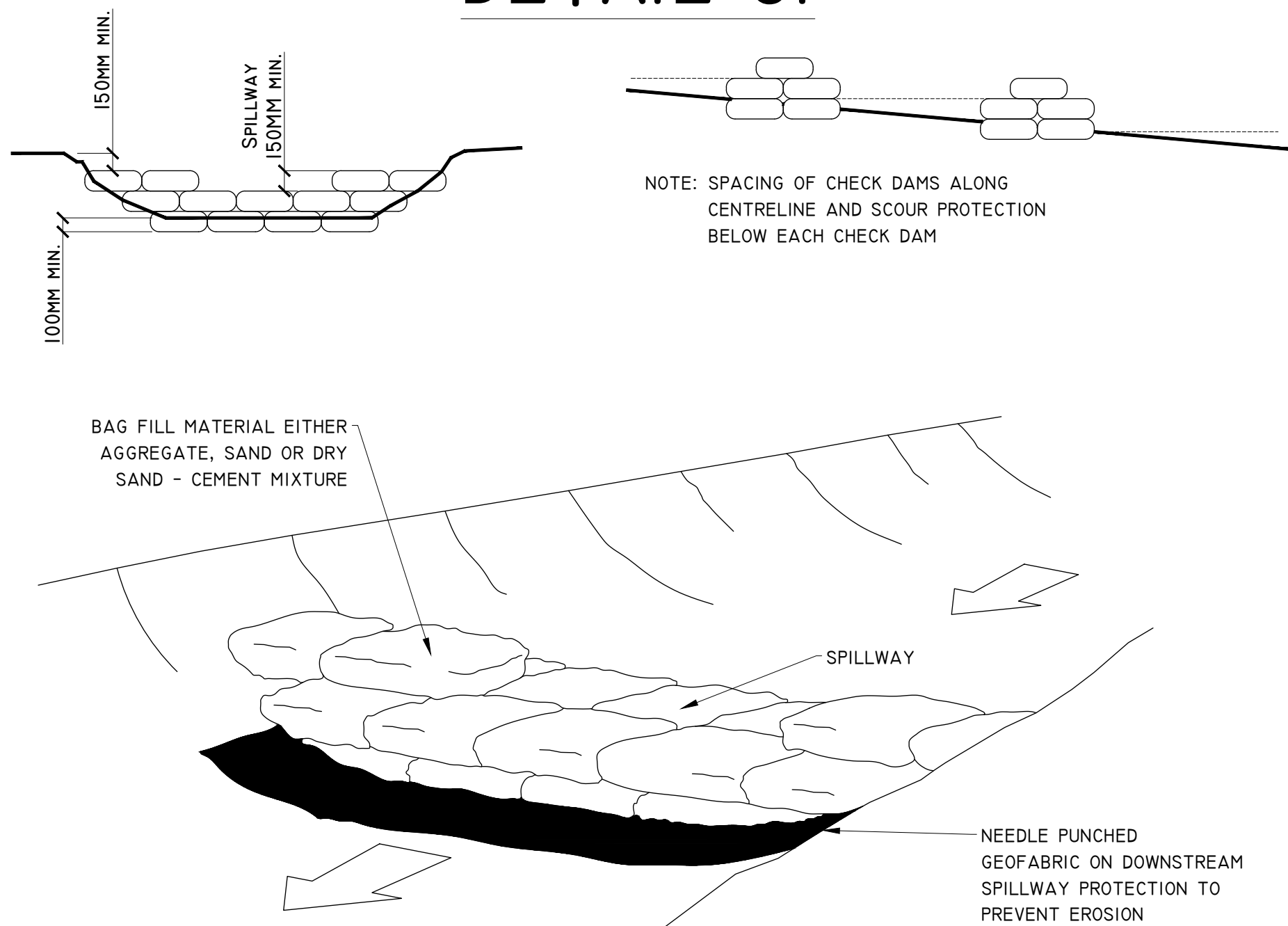


LONGITUDINAL ELEVATION

TYPE Y - CHECK DAM DETAIL

SCALE 1:100

## DETAIL C1



TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW  
SAND FILLED BAG CONSTRUCTION

SCHEMATIC - NOT TO SCALE

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|-----------|-------------|------|--------|
|           |             |      |        |
| Revisions |             |      |        |

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Client:  
CUNLAGHFADDA GREEN ENERGY LTD

Job:  
CUNLAGHFADDA, Co. MAYO

Title:  
DRAINAGE DETAILS I

Figure No: D501

Drawing No: P1646-0-0426-A1-D501-00A

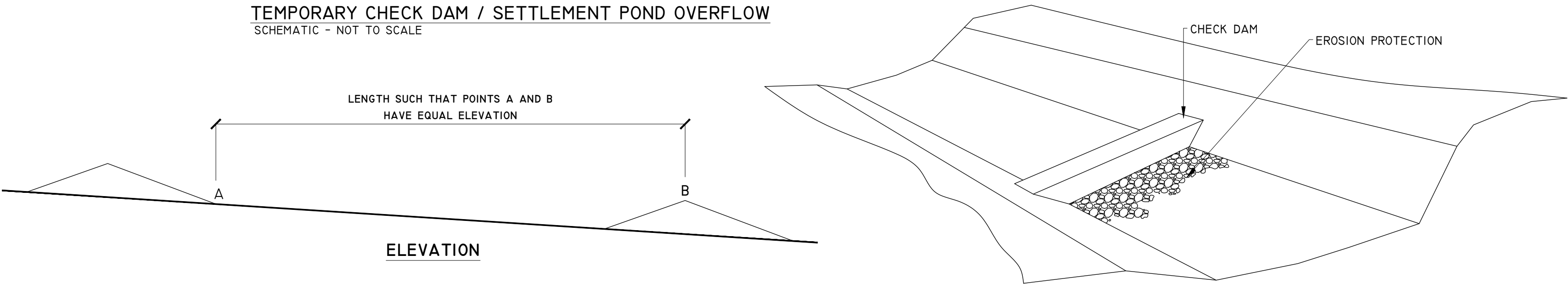
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Scale: as shown (A1) Drawn By: GA

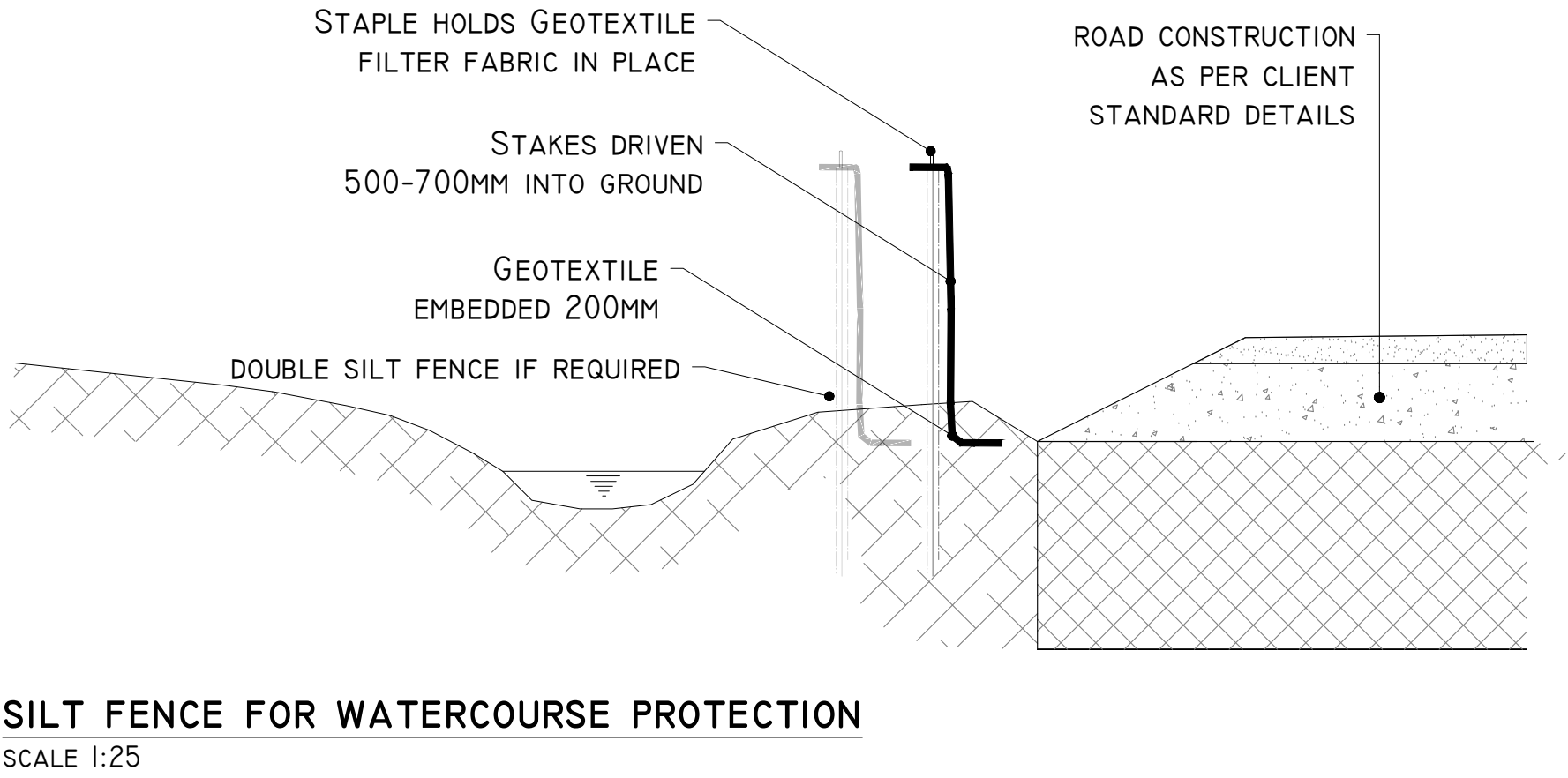
Date: 30/04/2026 Checked By: MG



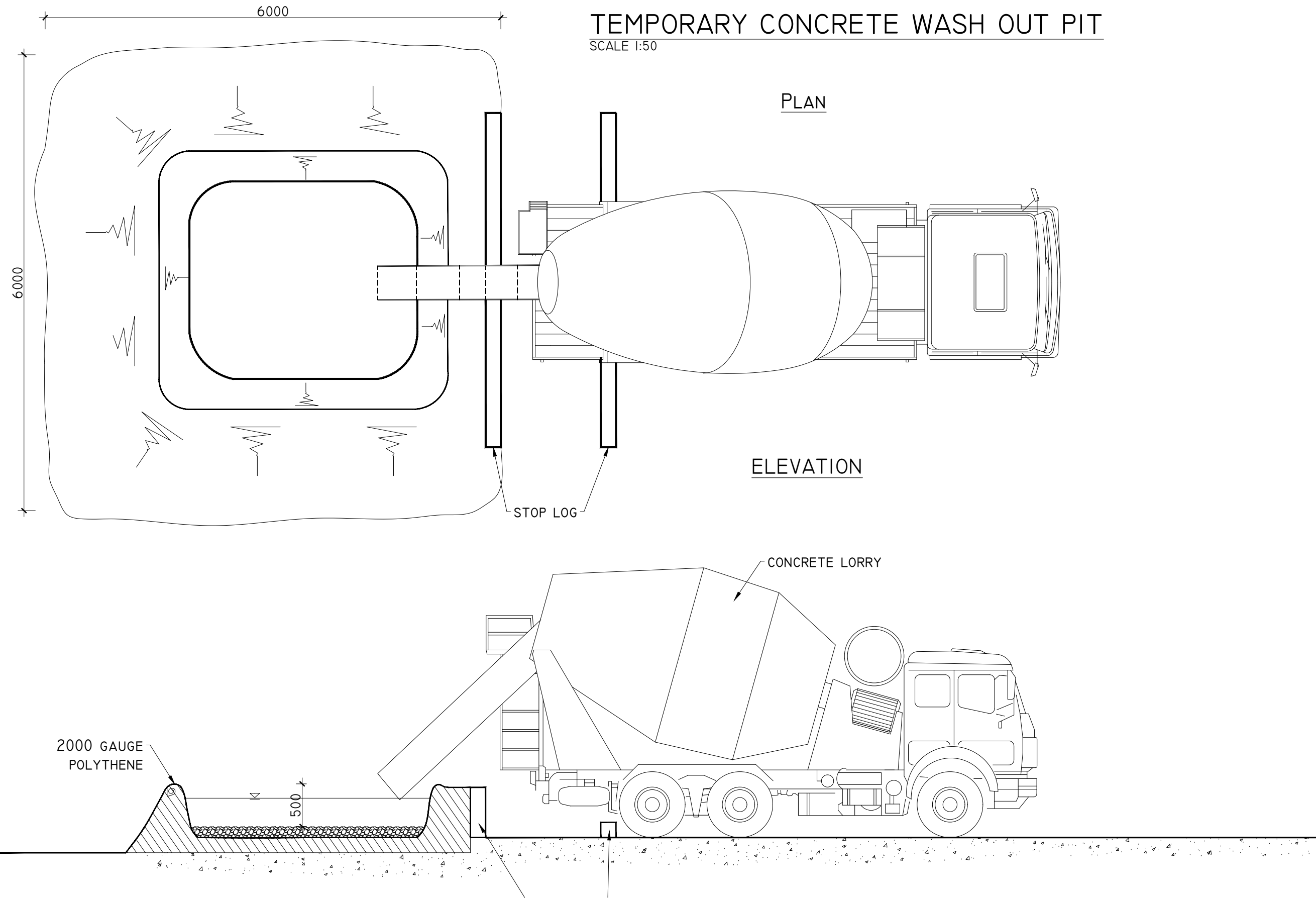
DETAIL C2



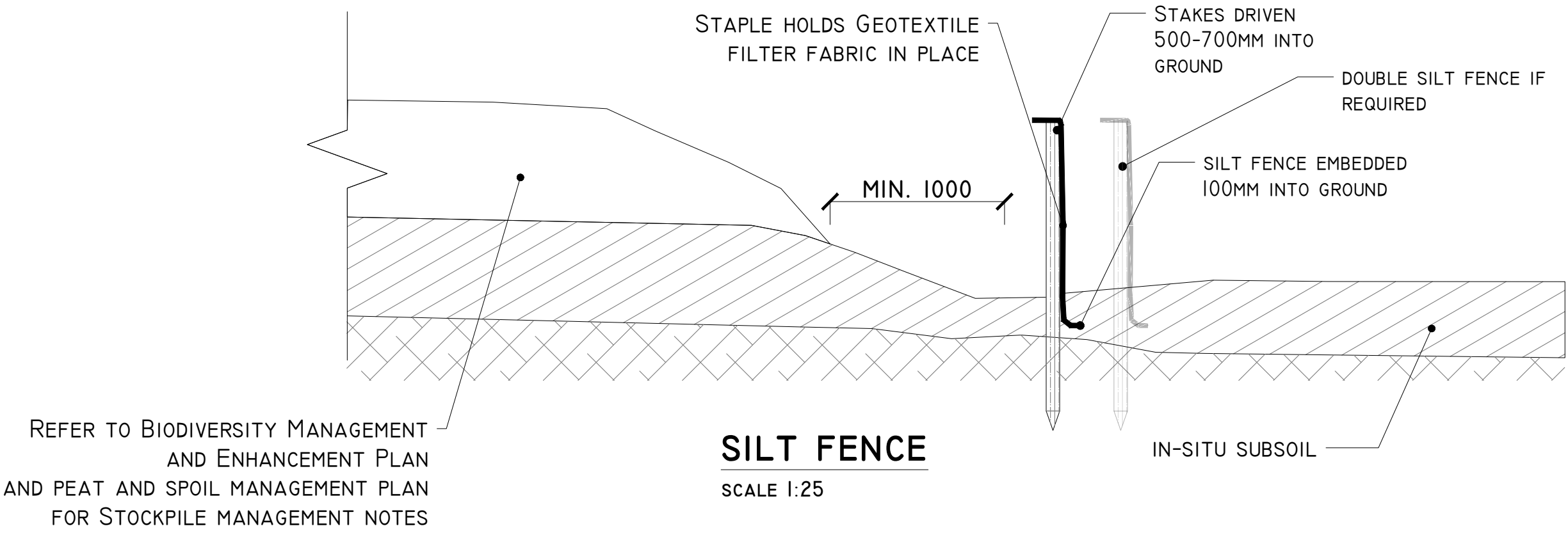
DETAIL E-II



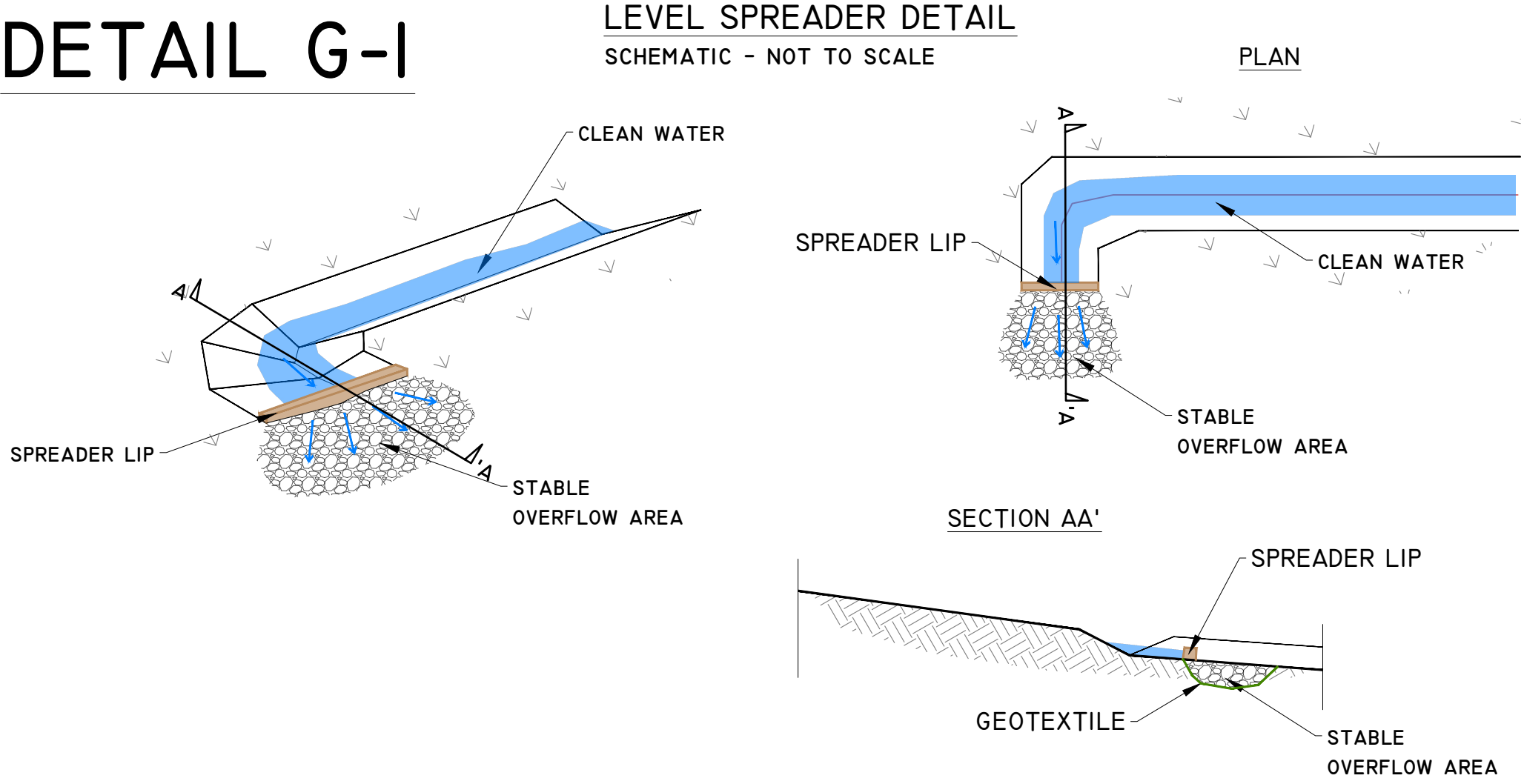
DETAIL F



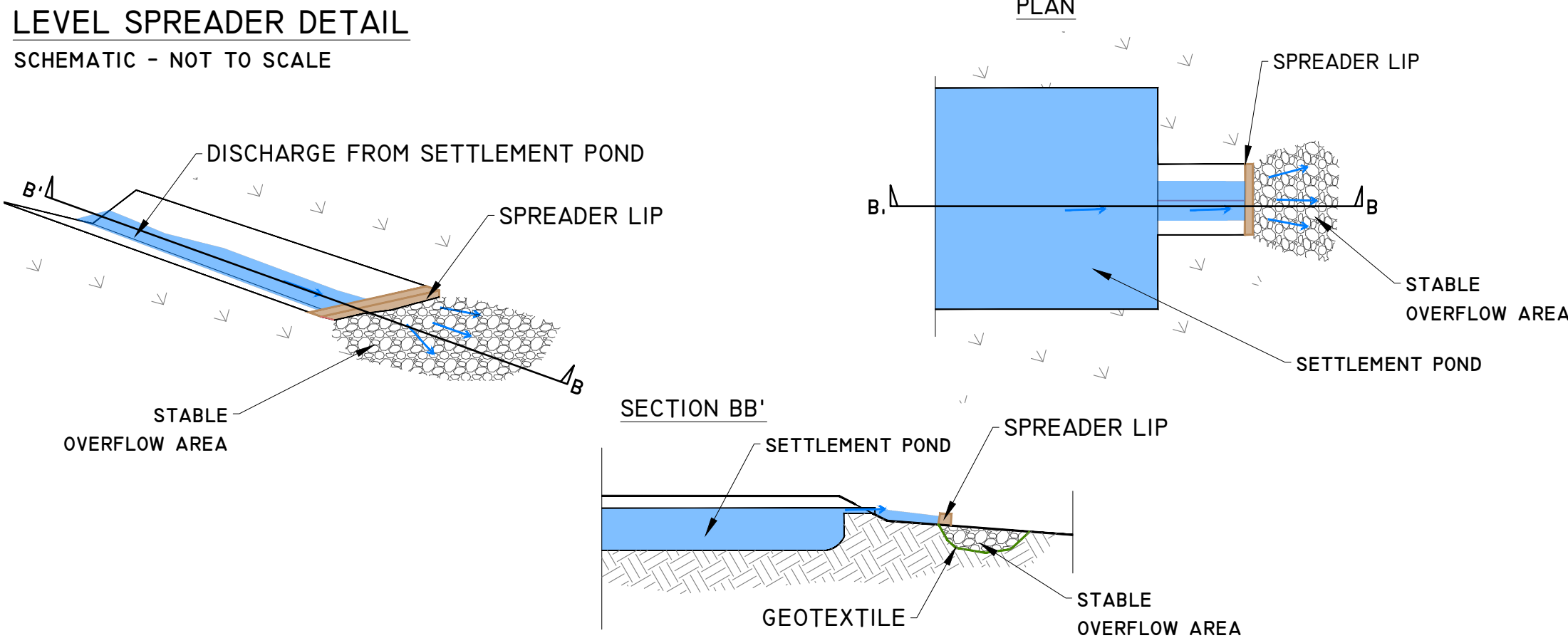
DETAIL E-I



DETAIL G-I



DETAIL G-2

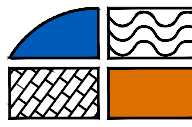


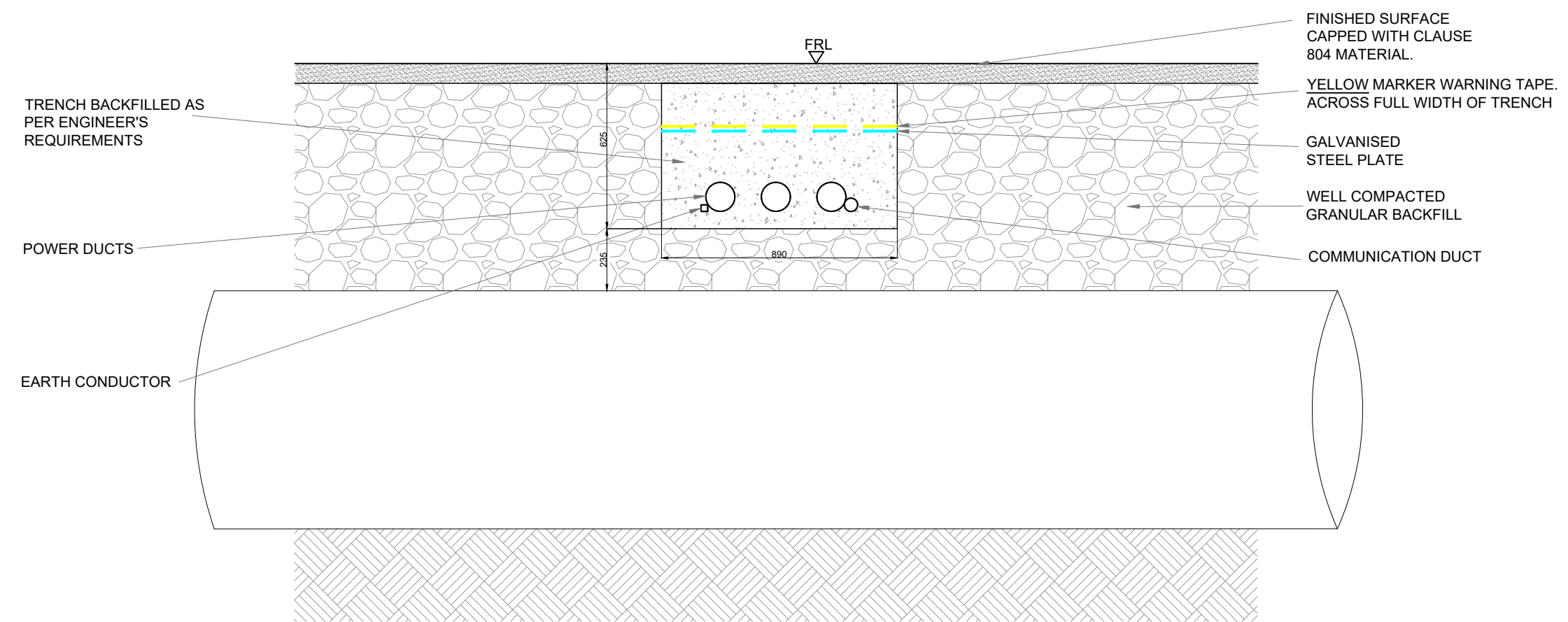
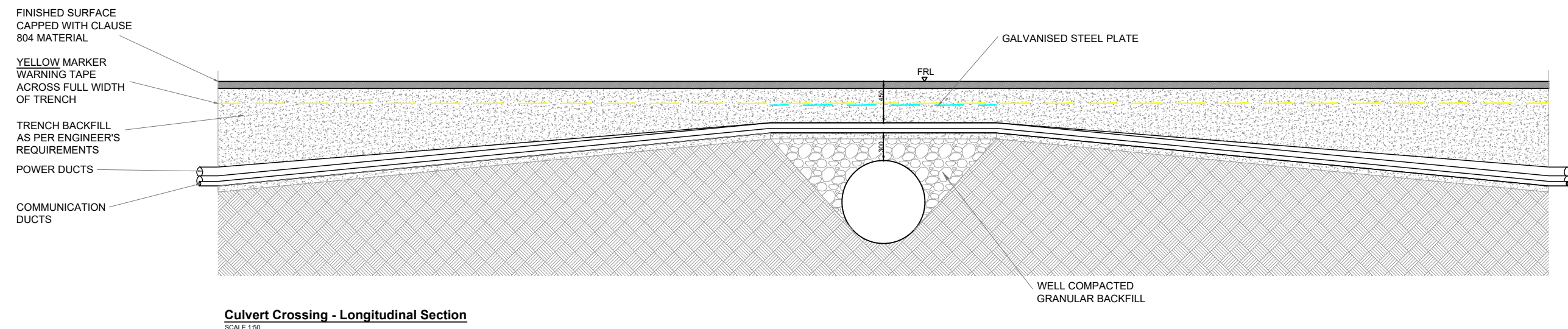
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                              |             |                      |        |
| Date                                                                                                                                                                                                                                                                                                                                                                                         | Description | Chkd                 | Signed |
| Revisions                                                                                                                                                                                                                                                                                                                                                                                    |             |                      |        |
| <div><div><div><div>HYDRO<br/>ENVIRONMENTAL<br/>SERVICES</div><div>22 Lower Main St<br/>Dungarvan<br/>Co. Waterford<br/>Ireland</div></div><div><div>tel: +353 (0) 56-44122<br/>tel: +353 (0) 56-44244<br/>email: info@hydroenvironmental.ie<br/>web: www.hydroenvironmental.ie</div></div></div></div> |             |                      |        |
| Client:<br>CUNLAGHFADDA GREEN ENERGY LTD                                                                                                                                                                                                                                                                                                                                                     |             |                      |        |
| Job:<br>CUNLAGHFADDA, Co. MAYO                                                                                                                                                                                                                                                                                                                                                               |             |                      |        |
| Title:<br>DRAINAGE DETAILS 2                                                                                                                                                                                                                                                                                                                                                                 |             |                      |        |
| Figure No: D502                                                                                                                                                                                                                                                                                                                                                                              |             |                      |        |
| Drawing No: P1646-0-0426-A1-D502-00A                                                                                                                                                                                                                                                                                                                                                         |             |                      |        |
| Sheet Size: A1                                                                                                                                                                                                                                                                                                                                                                               |             | Project No.: P1646-0 |        |
| Scale: as shown (A1)                                                                                                                                                                                                                                                                                                                                                                         |             | Drawn By: GA         |        |
| Date: 30/04/2026                                                                                                                                                                                                                                                                                                                                                                             |             | Checked By: MG       |        |



|                                   |              |               |            |
|-----------------------------------|--------------|---------------|------------|
| PROJECT TITLE:                    |              |               |            |
| Cunlaghfadda Green Energy Project |              |               |            |
| DRAWING TITLE:                    |              |               |            |
| Standard 33kV Culvert Crossing    |              |               |            |
| PROJECT No.:                      | DRAWING No.: | SCALE:        |            |
| 220825                            | 220825-17    | As Shown @ A3 |            |
| DRAWN BY:                         | CHECKED BY:  | DATE:         | REVISION.: |
| FB                                | GO           | 14.05.2026    | P01        |



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**POLLUTION PREVENTION NOTES:**

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SURFACE WATER SILTATION, AND STREAM BANK AND LAND EROSION.

2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.

3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, EROSION OF TEMPORARY STOCKPILES, PLANT AND WHEEL WASH WATER, RUNOFF FROM SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

**DISCHARGES**

4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP A MINIMUM 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.

5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.

6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.

7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING INTO FIELD DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.

8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING FIELD DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

**EXCAVATIONS**

9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

**EXPOSED GROUND & STOCKPILES**

10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

**SITE TRACKS**

11. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.

12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

**REFUELLING**

13. REFUELLING WILL BE COMPLETED IN LINE WITH CEMP REQUIREMENTS AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES.

14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

**CONCRETE**

15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OF CONCRETE OR WASH WATER OCCURS.

16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

**IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:**

**STOP** - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

**CONTAIN** - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

**NOTIFY** - THE RELEVANT AUTHORITIES (SITE MANAGER / INLAND FISHERIES IRELAND / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS, IF REQUIRED.

**DRAINAGE NOTES:**

1. ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION.

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS.

3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.

6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.

7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.

8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1:1 - 1:5 TO 1:1 - 2:2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.

10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON CATCHMENT AREA SERVED. SAMPLE POND SIZES SHOWN ON DRAWING D501.

11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.

12. SILT FENCES TO BE PROVIDED ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <20M OF EDGE OF ANY DITCH / EPHEMERAL CHANNELS.

13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.

14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.

15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

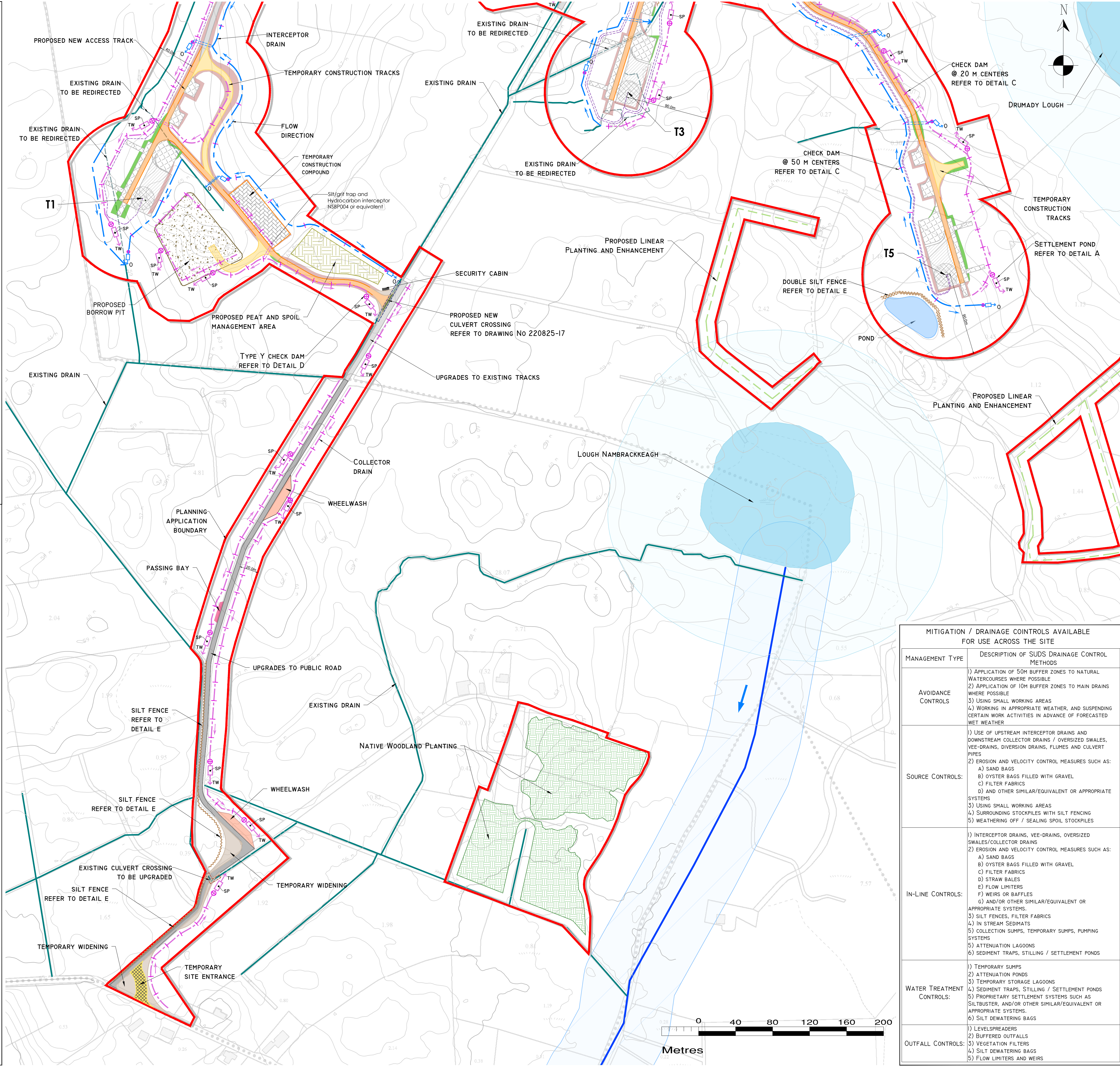
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.

19. OIL/FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.

20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.



**DRAWING LEGEND:**

- WATERCOURSES
- WATERCOURSE 50M BUFFER
- LAKES
- LAKE 50M BUFFER
- WATERCOURSE FLOW DIRECTION
- EXISTING DRAINS
- REDIRECTED DRAINS
- UPSTREAM INTERCEPTOR DRAIN
- SWALE/DOWNSTREAM COLLECTOR DRAIN (SDCD)
- DIRECTION OF FLOW
- SILT FENCES (SF)
- DOUBLE SILT FENCES (DSF)
- SETTLEMENT POND
- CHECK DAM TYPE A
- CHECK DAM TYPE B
- PROPOSED WC CROSSINGS
- EXISTING WC CROSSINGS
- INTERCEPTOR DITCH CULVERT
- COLLECTOR DITCH CULVERT
- OVERLAND FLOW DISCHARGE
- TREATED WATER DISCHARGE
- SETTLEMENT POND
- SEMI-NATURAL VEGETATION
- SWALE / FILTER BED / SECONDARY SP
- PUMPING SUMP
- PLANNING APPLICATION BOUNDARY - 50m WIND FARM APPLICATION
- EXISTING GROUND SURFACE
- MAJOR CONTOUR (10 M INTERVAL)
- EXISTING GROUND SURFACE
- MINOR CONTOUR (1 M INTERVAL)
- PROPOSED TURBINE FOUNDATION
- PERMANENT HARDSTAND
- TEMPORARY HARDSTAND AREAS
- PROPOSED NEW ACCESS TRACK (PERMANENT)
- UPGRADES TO EXISTING TRACKS
- UPGRADES TO PUBLIC ROAD
- TEMPORARY WIDENING
- TEMPORARY CONSTRUCTION TRACKS
- TEMPORARY SITE ENTRANCE
- BORROW PIT
- TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED PEAT AND SPOIL MANAGEMENT AREA
- ELECTRICAL CABLE TRENCH
- FILL AREA
- CUT AREA
- PROPOSED MARSH FRITILLARY ENHANCEMENT AREAS
- NATIVE WOODLAND PLANTING
- PROPOSED LINEAR PLANTING AND ENHANCEMENT
- PROPOSED FELLING AREA

**KEY PLAN**

D102\_WF  
D101\_WF

500m 1000m

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Revisions

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Client: CUNLAGHFADDA GREEN ENERGY LTD

Job: CUNLAGHFADDA S34 WIND FARM APPLICATION, CO. MAYO

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D101\_WF

Drawing No: P1646-0-0526-A1-D101\_WF-00C

| Sheet Size: A1      | Project No.: P1646-0 |
|---------------------|----------------------|
| Scale: 1:2,000 (A1) | Drawn By: GA         |
| Date: 14/05/2026    | Checked By: MG       |

**MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE**

| MANAGEMENT TYPE           | DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AVOIDANCE CONTROLS        | 1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE<br>2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE<br>3) USING SMALL WORKING AREAS<br>4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER                                                                                                                                                                                                                                |
| SOURCE CONTROLS:          | 1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES<br>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:<br>A) SAND BAGS<br>B) OYSTER BAGS FILLED WITH GRAVEL<br>C) FILTER FABRICS<br>D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS<br>3) USING SMALL WORKING AREAS<br>4) SURROUNDING STOCKPILES WITH SILT FENCING<br>5) WEATHERING OFF / SEALING SPOIL STOCKPILES                                                       |
| IN-LINE CONTROLS:         | 1) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS<br>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:<br>A) SAND BAGS<br>B) OYSTER BAGS FILLED WITH GRAVEL<br>C) FILTER FABRICS<br>D) STRAW BALES<br>E) FLOW LIMITERS<br>F) WEIRS OR BAFFLES<br>G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS<br>3) SILT FENCES, FILTER FABRICS<br>4) IN STREAM SEDIMENTS<br>5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS<br>6) ATTENUATION LAGOONS<br>7) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS |
| WATER TREATMENT CONTROLS: | 1) TEMPORARY SUMPS<br>2) ATTENUATION PONDS<br>3) TEMPORARY STORAGE LAGOONS<br>4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS<br>5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.<br>6) SILT DEWATERING BAGS                                                                                                                                                                                                                                                       |
| OUTFALL CONTROLS:         | 1) LEVELSPREADERS<br>2) BUFFERED OUTFALLS<br>3) VEGETATION FILTERS<br>4) SILT DEWATERING BAGS<br>5) FLOW LIMITERS AND WEIRS                                                                                                                                                                                                                                                                                                                                                                                                    |



**POLLUTION PREVENTION NOTES:**

1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SURFACE WATER SILTATION, AND STONE BANK AND LAND EROSION.
2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, EROSION OF TEMPORARY STOCKPILES, PLANT AND WHEEL WASH WATER, RUNOFF FROM SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

**DISCHARGES**

4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP A MINIMUM 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING INTO FIELD DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING FIELD DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

**EXCAVATIONS**

9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

**EXPOSED GROUND & STOCKPILES**

10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

**SITE TRACKS**

11. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

**REFUELLING**

13. REFUELLING WILL BE COMPLETED IN LINE WITH CEMP REQUIREMENTS AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES.
14. SPILL NITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

**CONCRETE**

15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OF CONCRETE OR WASH WATER OCCURS.
16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

**IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:**

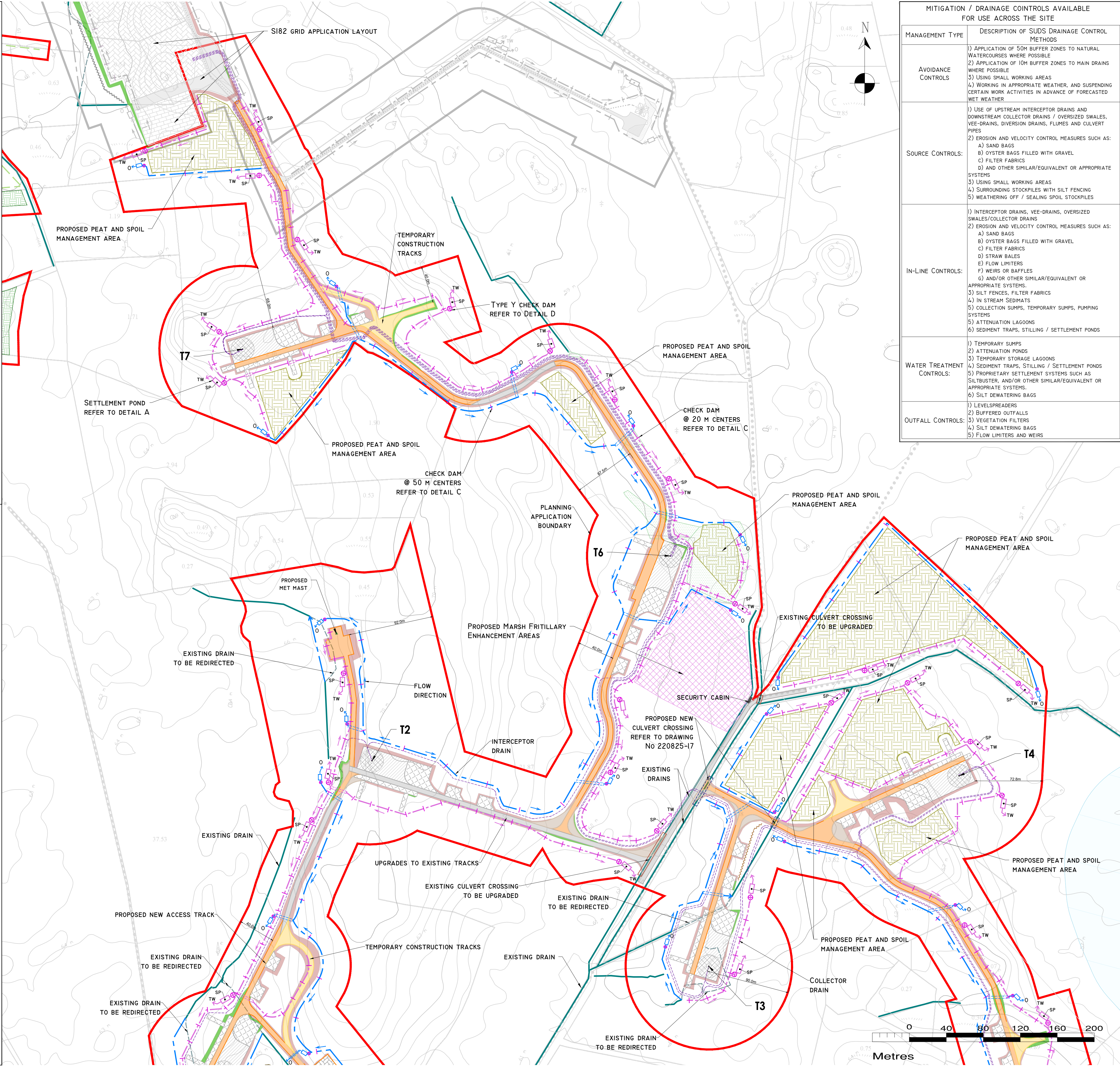
**STOP** - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

**CONTAIN** - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

**NOTIFY** - THE RELEVANT AUTHORITIES (SITE MANAGER / INLAND FISHERIES IRELAND / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS, IF REQUIRED.

**DRAINAGE NOTES:**

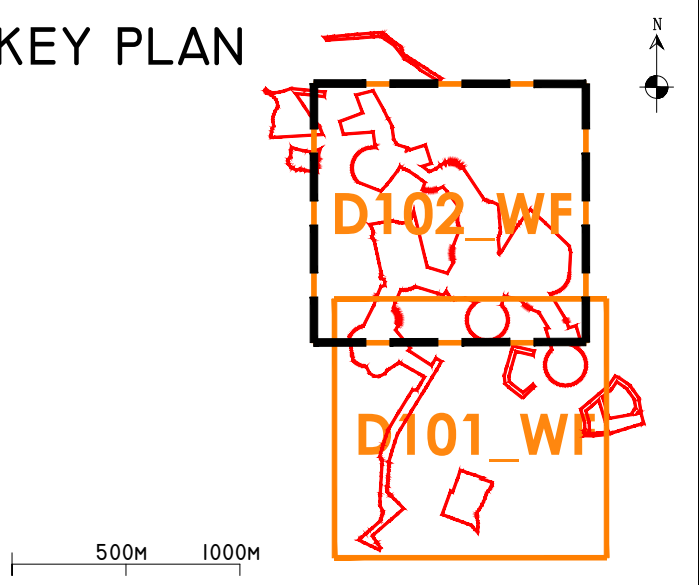
1. ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION.
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS.
3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.
5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.
7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1:1.5 TO 1:2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.
10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON CATCHMENT AREA SERVED. SAMPLE POND SIZES SHOWN ON DRAWING D501.
11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <20M OF EDGE OF ANY DITCH / EPHEMERAL CHANNELS.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL 'VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
15. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
16. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.
17. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
18. OIL/FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
19. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.



| MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MANAGEMENT TYPE                                                  | DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| AVOIDANCE CONTROLS                                               | 1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE<br>2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE<br>3) USING SMALL WORKING AREAS<br>4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER                                                                                                                                                                                                                                 |
|                                                                  | 1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES<br>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:<br>A) SAND BAGS<br>B) OYSTER BAGS FILLED WITH GRAVEL<br>C) FILTER FABRICS<br>D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS<br>3) USING SMALL WORKING AREAS<br>4) SURROUNDING STOCKPILES WITH SILT FENCING<br>5) WEATHERING OFF / SEALING SPOIL STOCKPILES                                                        |
| SOURCE CONTROLS:                                                 | 1) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS<br>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:<br>A) SAND BAGS<br>B) OYSTER BAGS FILLED WITH GRAVEL<br>C) FILTER FABRICS<br>D) STRAW BALES<br>E) FLOW LIMITERS<br>F) WEIRS OR BAFFLES<br>G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.<br>3) SILT FENCES, FILTER FABRICS<br>4) IN STREAM SEDIMENTS<br>5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS<br>5) ATTENUATION LAGOONS<br>6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS |
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| IN-LINE CONTROLS:                                                | 1) LEVELSPREADERS<br>2) BUFFERED OUTFALLS<br>3) VEGETATION FILTERS<br>4) SILT DEWATERING BAGS<br>5) FLOW LIMITERS AND WEIRS                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| WATER TREATMENT CONTROLS:                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OUTFALL CONTROLS:                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**DRAWING LEGEND:**

- WATERCOURSES
- WATERCOURSE 50M BUFFER
- LAKES
- LAKE 50M BUFFER
- WATERCOURSE FLOW DIRECTION
- EXISTING DRAINS
- REDIRECTED DRAINS
- UPSTREAM INTERCEPTOR DRAIN
- SWALES/DOWNSTREAM COLLECTOR DRAIN (SDCD)
- DIRECTION OF FLOW
- SILT FENCE (SFT)
- DOUBLE SILT FENCES (DSF)
- SETTLEMENT POND - LEVEL SPREADER
- CHECK DAM 'TYPE A'
- CHECK DAM 'TYPE B'
- PROPOSED WC CROSSINGS
- EXISTING WC CROSSING
- INTERCEPTOR DITCH CULVERT
- COLLECTOR DITCH CULVERT
- OVERLAND FLOW DISCHARGE
- TREATED WATER DISCHARGE
- SETTLEMENT POND
- SEMI-NATURAL VEGETATION
- SWALE / FILTER BED / SECONDARY SP
- PUMPING SUMP
- PLANNING APPLICATION BOUNDARY - S34 WIND FARM APPLICATION
- EXISTING GROUND SURFACE
- MAJOR CONTOUR (10 M INTERVAL)
- EXISTING GROUND SURFACE
- MINOR CONTOUR (1 M INTERVAL)
- PROPOSED TURBINE FOUNDATION
- PERMANENT HARDSTAND
- TEMPORARY HARDSTAND AREAS
- PROPOSED NEW ACCESS TRACK (PERMANENT)
- UPGRADES TO EXISTING TRACKS
- UPGRADES TO PUBLIC ROAD
- TEMPORARY WIDENING
- TEMPORARY CONSTRUCTION TRACKS
- TEMPORARY SITE ENTRANCE
- BORROW PIT
- TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED MET MAST
- PROPOSED PEAT AND SPOIL MANAGEMENT AREA
- ELECTRICAL CABLE TRENCH
- FILL AREA
- CUT AREA
- PROPOSED MARSH FRITILLARY ENHANCEMENT AREAS
- NATIVE WOODLAND PLANTING
- PROPOSED LINEAR PLANTING AND ENHANCEMENT
- PROPOSED FELLING AREA



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| Date      | Description | Chkd | Signed |
| Revisions |             |      |        |

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Client: CUNLAGHFADDA GREEN ENERGY LTD

Job: CUNLAGHFADDA S34 WIND FARM APPLICATION, CO. MAYO

Title: CONSTRUCTION PHASE PROPOSED DRAINAGE LAYOUT

Figure No: D102\_WF

Drawing No: P1646-0-0526-A1-D102\_WF-00C

Sheet Size: A1 Project No.: P1646-0

Scale: 1:2,000 (A1) Drawn By: GA

Date: 14/05/2026 Checked By: MG



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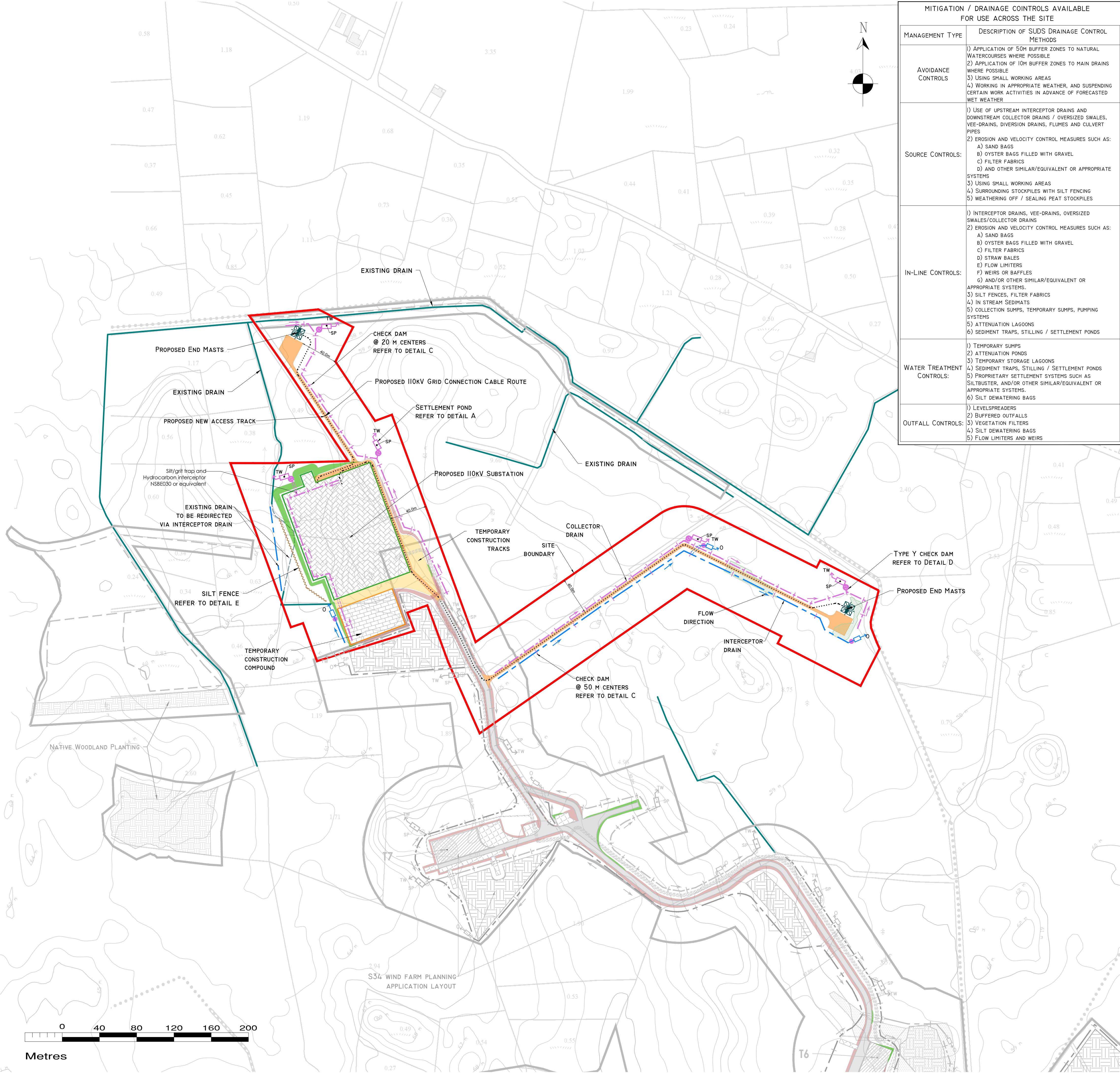
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3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
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11. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE PROVIDED ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <20M OF EDGE OF ANY DITCH / EPHEMERAL CHANNELS.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.
17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDANT UPON LONGITUDINAL GRADIENT OF SWALE.
18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL/FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.



| MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE |                                                                                                                                                                                                                                  |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MANAGEMENT TYPE                                                  | DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS                                                                                                                                                                                     |
| AVOIDANCE CONTROLS                                               | 1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE                                                                                                                                                        |
|                                                                  | 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE                                                                                                                                                                 |
| SOURCE CONTROLS:                                                 | 3) USING SMALL WORKING AREAS                                                                                                                                                                                                     |
|                                                                  | 4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER                                                                                                                   |
| IN-LINE CONTROLS:                                                | 1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES                                                                                 |
|                                                                  | 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS |
| WATER TREATMENT CONTROLS:                                        | 3) USING SMALL WORKING AREAS                                                                                                                                                                                                     |
|                                                                  | 4) SURROUNDING STOCKPILES WITH SILT FENCING                                                                                                                                                                                      |
| OUTFALL CONTROLS:                                                | 5) WEATHERING OFF / SEALING PEAT STOCKPILES                                                                                                                                                                                      |
|                                                                  | 1) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS                                                                                                                                                             |
| IN-LINE CONTROLS:                                                | 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS |
|                                                                  | 3) SILT FENCES, FILTER FABRICS                                                                                                                                                                                                   |
| WATER TREATMENT CONTROLS:                                        | 4) IN STREAM SEDIMENTS                                                                                                                                                                                                           |
|                                                                  | 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS                                                                                                                                                                            |
| OUTFALL CONTROLS:                                                | 5) ATTENUATION LAGOONS                                                                                                                                                                                                           |
|                                                                  | 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS                                                                                                                                                                                   |
| WATER TREATMENT CONTROLS:                                        | 1) TEMPORARY SUMPS                                                                                                                                                                                                               |
|                                                                  | 2) ATTENUATION LAGOONS                                                                                                                                                                                                           |
| OUTFALL CONTROLS:                                                | 3) TEMPORARY STORAGE LAGOONS                                                                                                                                                                                                     |
|                                                                  | 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS                                                                                                                                                                                   |
| WATER TREATMENT CONTROLS:                                        | 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.                                                                                                                    |
|                                                                  | 6) SILT DEWATERING BAGS                                                                                                                                                                                                          |
| OUTFALL CONTROLS:                                                | 1) LEVELSPREADERS                                                                                                                                                                                                                |
|                                                                  | 2) BUFFERED OUTFALLS                                                                                                                                                                                                             |
| OUTFALL CONTROLS:                                                | 3) VEGETATION FILTERS                                                                                                                                                                                                            |
|                                                                  | 4) SILT DEWATERING BAGS                                                                                                                                                                                                          |
| OUTFALL CONTROLS:                                                | 5) FLOW LIMITERS AND WEIRS                                                                                                                                                                                                       |

**DRAWING LEGEND:**

- EXISTING DRAINS
- REDIRECTED DRAINS
- UPSTREAM INTERCEPTOR DRAIN
- SWALES/DOWNSTREAM COLLECTOR DRAIN (SDCD)
- DIRECTION OF FLOW
- SILT FENCES (SF)
- DOUBLE SILT FENCES (DSF)
- SETTLEMENT POND - LEVEL SPREADER
- CHECK DAM 'TYPE A'
- CHECK DAM 'TYPE B'
- INTERCEPTOR DITCH CULVERT
- COLLECTOR DITCH CULVERT
- OVERLAND FLOW DISCHARGE
- TW TREATED WATER DISCHARGE
- SP SETTLEMENT POND
- VS SEMI-NATURAL VEGETATION
- SWALE / FILTER BED /SECONDARY SP
- PUMPING SUMP
- SITE BOUNDARY
- EXISTING GROUND SURFACE
- MAJOR CONTOUR (10 M INTERVAL)
- EXISTING GROUND SURFACE
- MINOR CONTOUR (1 M INTERVAL)
- PROPOSED NEW ACCESS TRACK (PERMANENT)
- TEMPORARY CONSTRUCTION TRACKS
- PROPOSED 110kV SUBSTATION
- TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED 110kV GRID CONNECTION CABLE ROUTE
- END MAST
- PROPOSED FELLING AREA
- FILL AREA
- CUT AREA

**KEY PLAN**

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Revisions

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Job: CUNLAGHFADDA S182 GRID CONNECTION APPLICATION, CO. MAYO

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D101\_GC

Drawing No: P1646-0-0426-A1-D101\_GC-008

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