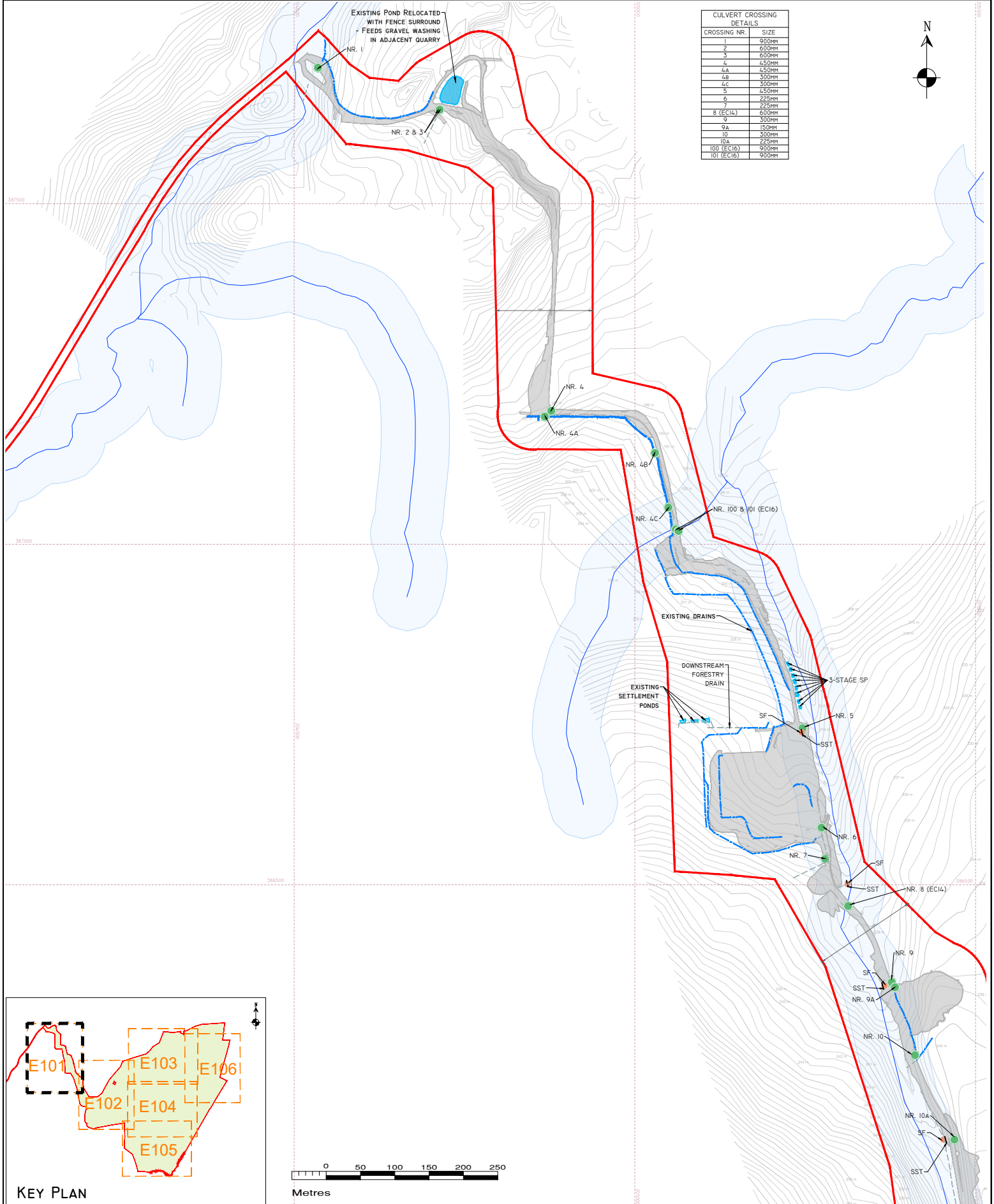


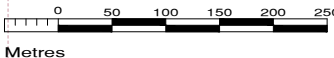
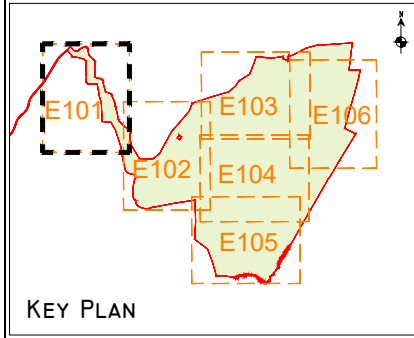
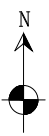


APPENDIX 4-5

DRAINAGE DESIGN



CULVERT CROSSING DETAILS	
CROSSING NR.	SIZE
1	900MM
2	600MM
3	600MM
4	450MM
4A	450MM
4B	300MM
4C	300MM
5	450MM
6	225MM
7	225MM
8 (EC14)	600MM
9	300MM
9A	150MM
10	300MM
10A	225MM
100 (EC16)	600MM
101 (EC16)	900MM



DRAWING LEGEND :

- PLANNING APPLICATION BOUNDARY
-
- EXISTING DEVELOPMENT FOOTPRINT

EXISTING DRAINAGE NOTES:
1. EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENERO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.
2. EXISTING DRAINAGE REFLECTS ALL RESIDUAL DRAINS, CULVERTS, SETTLEMENT PONDS, SILT TRAPS AND SILT FENCING INSTALLED AS PART OF PREVIOUS CONSTRUCTION WORKS.
3. ONLY THE DOWNSTREAM CONNECTIONS TO WATERCOURSES VIA THE FORESTRY DRAINAGE NETWORK ARE SHOWN FOR EACH WIND FARM OUTFALL. THE ENTIRE DOWNSTREAM FORESTRY DRAINAGE NETWORK IS NOT SHOWN.
4. FROM THOSE WIND FARM OUTFALL LOCATIONS TREATED DRAINAGE WATER MAKES ITS WAY DOWNHILL AS SHOWN.

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Revisions			

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Client:
PLANREE LTD

Job:
MEENBOG WIND FARM, CO. DONEGAL

Title:
**EXISTING DEVELOPMENT DRAINAGE LAYOUT
SHEET 1 OF 6**

Figure No:
E101

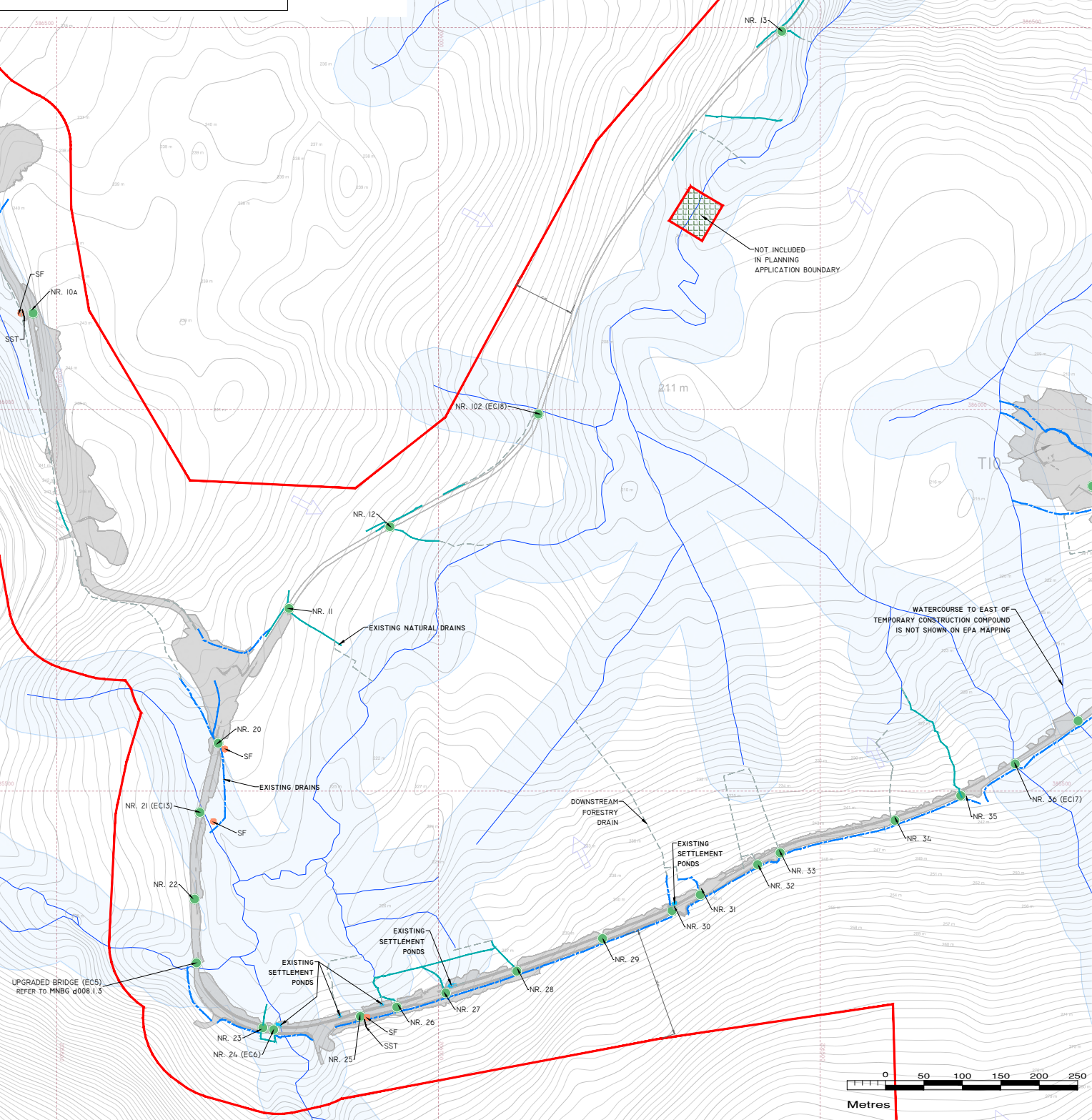
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Sheet Size: A1
Scale: 1:2,500 (A1)
Date: 25/04/2026

Project No.: P1249-9
Drawn By: MG/GA
Checked By: MG

CULVERT CROSSING DETAILS		
CROSSING NR.	SIZE	
11	450mm	
12	450mm	
13	300mm	
14 (EC12)	450mm	
20	450mm	
21 (EC13)	600mm	
22	300mm	
EC5	BRIDGE	
23	600mm	
24 (EC6)	600mm	
25	300mm	
26	450mm	
27	450mm	
28	450mm	
29	450mm	
30	450mm	
31	450mm	
32	300mm	
33	450mm	
34	450mm	
35	600mm	
36 (EC17)	900mm	
102 (EC18)	900mm	

KEY PLAN



DRAWING LEGEND :

- PLANNING APPLICATION BOUNDARY
- EXISTING DEVELOPMENT FOOTPRINT
- SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO HOD MAIN HEAD
- SLOPE / DRAINAGE DIRECTION
- WATERCOURSES
- WATERCOURSE BUFFER 50M
- LAKES
- LAKES 50M BUFFER
- EXISTING NATURAL DRAINS
- DOWNSTEAM FORESTRY DRAIN

- EXISTING DRAINS
- EXISTING SETTLEMENT PONDS
- EXISTING CULVERT LOCATIONS
- EXISTING SILT FENCES (SF*)
- SF - SINGLE SILT FENCE
- DSF - DOUBLE SILT FENCE
- MSF - MULTIPLE SILT FENCES
- EXISTING SILT TRAPS (SST*)
- SST - SINGLE SILT TRAP
- DST - DOUBLE SILT TRAP
- MST - MULTIPLE SILT TRAPS

EXISTING DRAINAGE NOTES:

- EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENHCO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.
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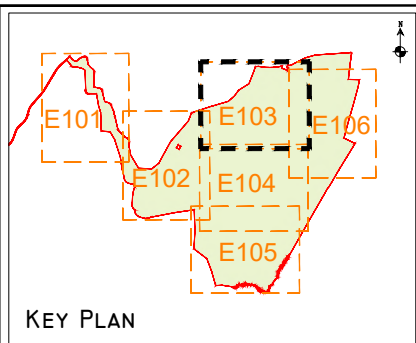
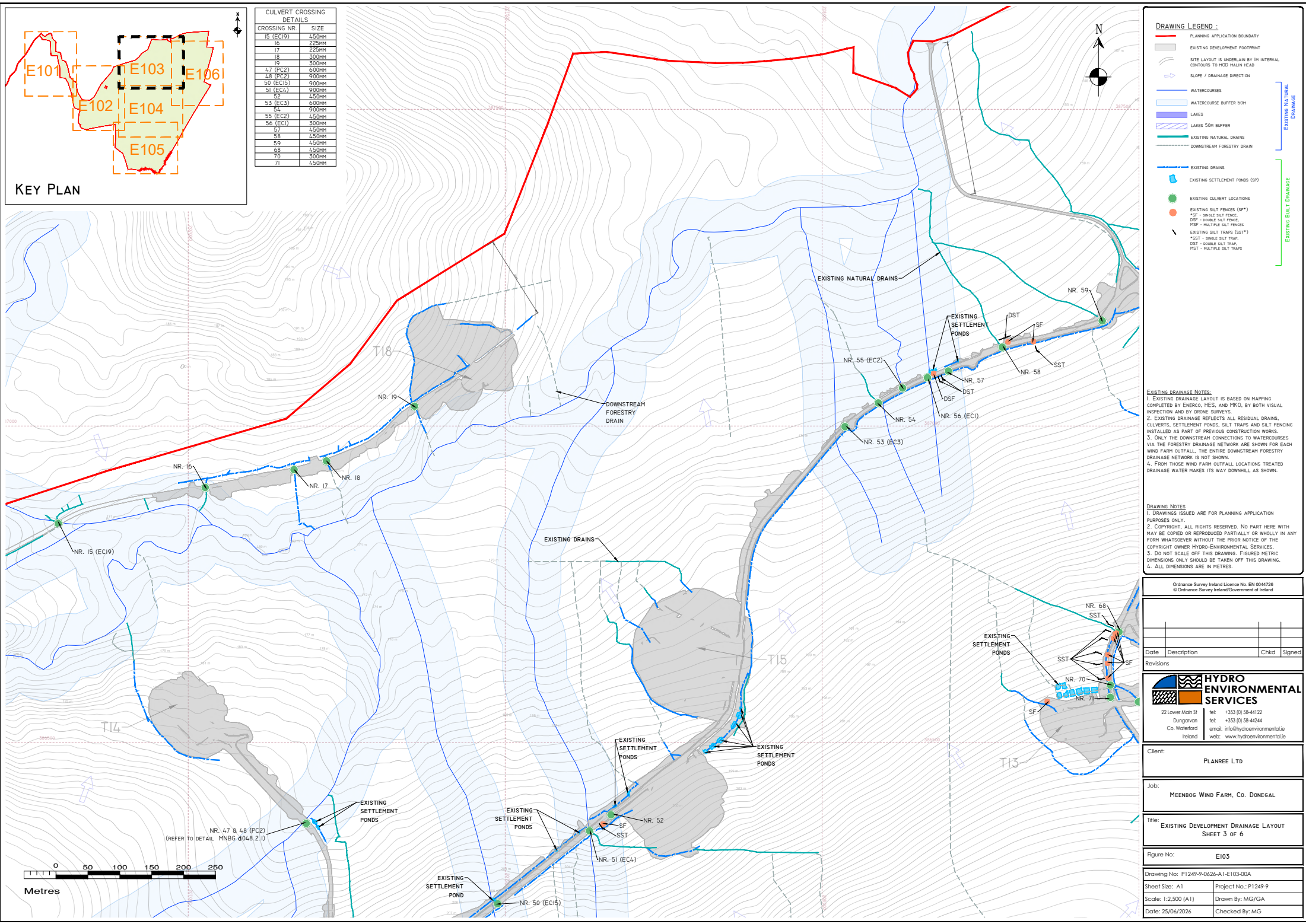
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Client:	PLANREE LTD
Job:	MEENBOG WIND FARM, CO. DONEGAL
Title:	EXISTING DEVELOPMENT DRAINAGE LAYOUT SHEET 2 OF 6
Figure No:	E102
Drawing No:	P1249-9-0626-A1-E102-00A
Sheet Size:	A1
Scale:	1:2,500 (A1)
Date:	25/06/2026
Project No:	P1249-9
Drawn By:	MG/GA
Checked By:	MG



CULVERT CROSSING DETAILS	
CROSSING NR.	SIZE
15 (EC19)	450mm
16	225mm
17	225mm
18	300mm
19	300mm
47 (PC2)	600mm
48 (PC2)	900mm
50 (EC15)	900mm
51 (EC4)	900mm
52	450mm
53 (EC3)	600mm
54	900mm
55 (EC2)	450mm
56 (EC1)	300mm
57	450mm
58	450mm
59	450mm
68	450mm
70	300mm
71	450mm

- DRAWING LEGEND :**
- PLANNING APPLICATION BOUNDARY
 - EXISTING DEVELOPMENT FOOTPRINT
 - SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO MGD MAIN ROAD
 - SLOPE / DRAINAGE DIRECTION
 - WATERCOURSES
 - WATERCOURSE BUFFER 50M
 - LAKES
 - LAKES 50M BUFFER
 - EXISTING NATURAL DRAINS
 - DOWNSTEAM FORESTRY DRAIN
 - EXISTING DRAINS
 - EXISTING SETTLEMENT PONDS (SP)
 - EXISTING CULVERT LOCATIONS
 - EXISTING SILT FENCES (SF*)
 - SF - SINGLE SILT FENCE
 - DSF - DOUBLE SILT FENCE
 - MSP - MULTIPLE SILT FENCES
 - EXISTING SILT TRAPS (SST*)
 - SST - SINGLE SILT TRAP
 - DST - DOUBLE SILT TRAP
 - MST - MULTIPLE SILT TRAPS

- EXISTING DRAINAGE NOTES:**
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Client: PLANREE LTD

Job: MEENBEG WIND FARM, CO. DONEGAL

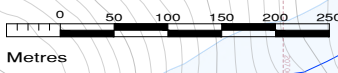
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SHEET 3 OF 6

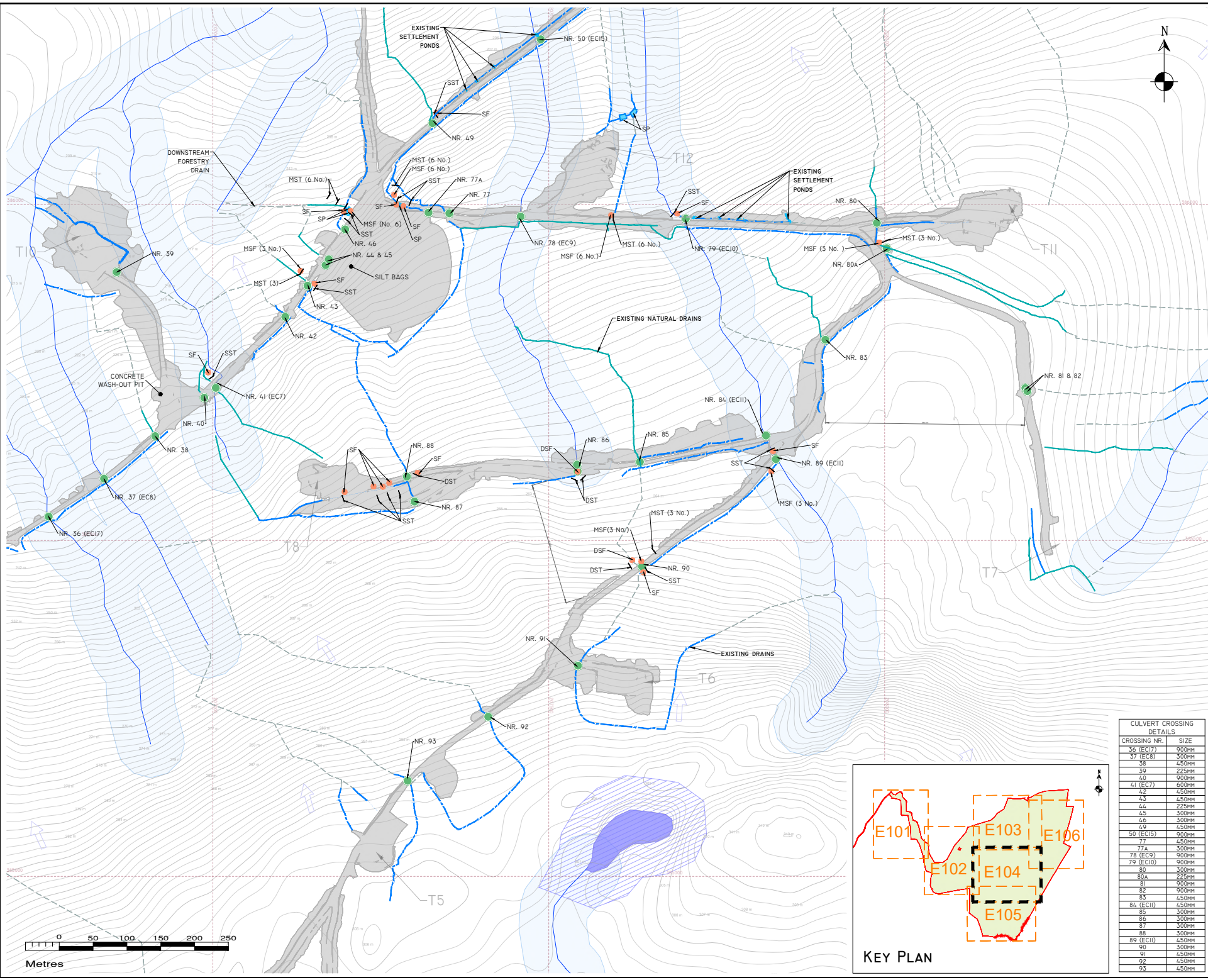
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Drawing No: P1249-9-0426-A1-E103-00A

Sheet Size: A1
Scale: 1:2,500 [A1]
Date: 25/04/2026

Project No: P1249-9
Drawn By: MG/GA
Checked By: MG





DRAWING LEGEND :

- PLANNING APPLICATION BOUNDARY
- EXISTING DEVELOPMENT FOOTPRINT
- SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO MOD MAIN HEAD
- SLOPE / DRAINAGE DIRECTION
- WATERCOURSES
- WATERCOURSE BUFFER 50M
- LAKES
- LAKES 50M BUFFER
- EXISTING NATURAL DRAINS
- DOWNTHEM FORESTRY DRAIN
- EXISTING DRAINS
- EXISTING SETTLEMENT PONDS (SP)
- EXISTING CULTIV LOCATIONS
- EXISTING SILT FENCES (SF*)
- SF* - SINGLE SILT FENCE
- DSF - DOUBLE SILT FENCE
- MSF - MULTIPLE SILT FENCES
- EXISTING SILT TRAPS (SST*)
- SST* - SINGLE SILT TRAP
- DST - DOUBLE SILT TRAP
- MST - MULTIPLE SILT TRAPS

EXISTING DRAINAGE NOTES:

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tel: +353 (0) 58-44244
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web: www.hydroenvironmental.ie

Client: **PLANREE LTD**

Job: **MEENBEG WIND FARM, Co. DONEGAL**

Title: **EXISTING DEVELOPMENT DRAINAGE LAYOUT
SHEET 4 OF 6**

Figure No: **E104**

Drawing No: **P1249-9-0426-A1-E104-00A**

Sheet Size:	Project No:
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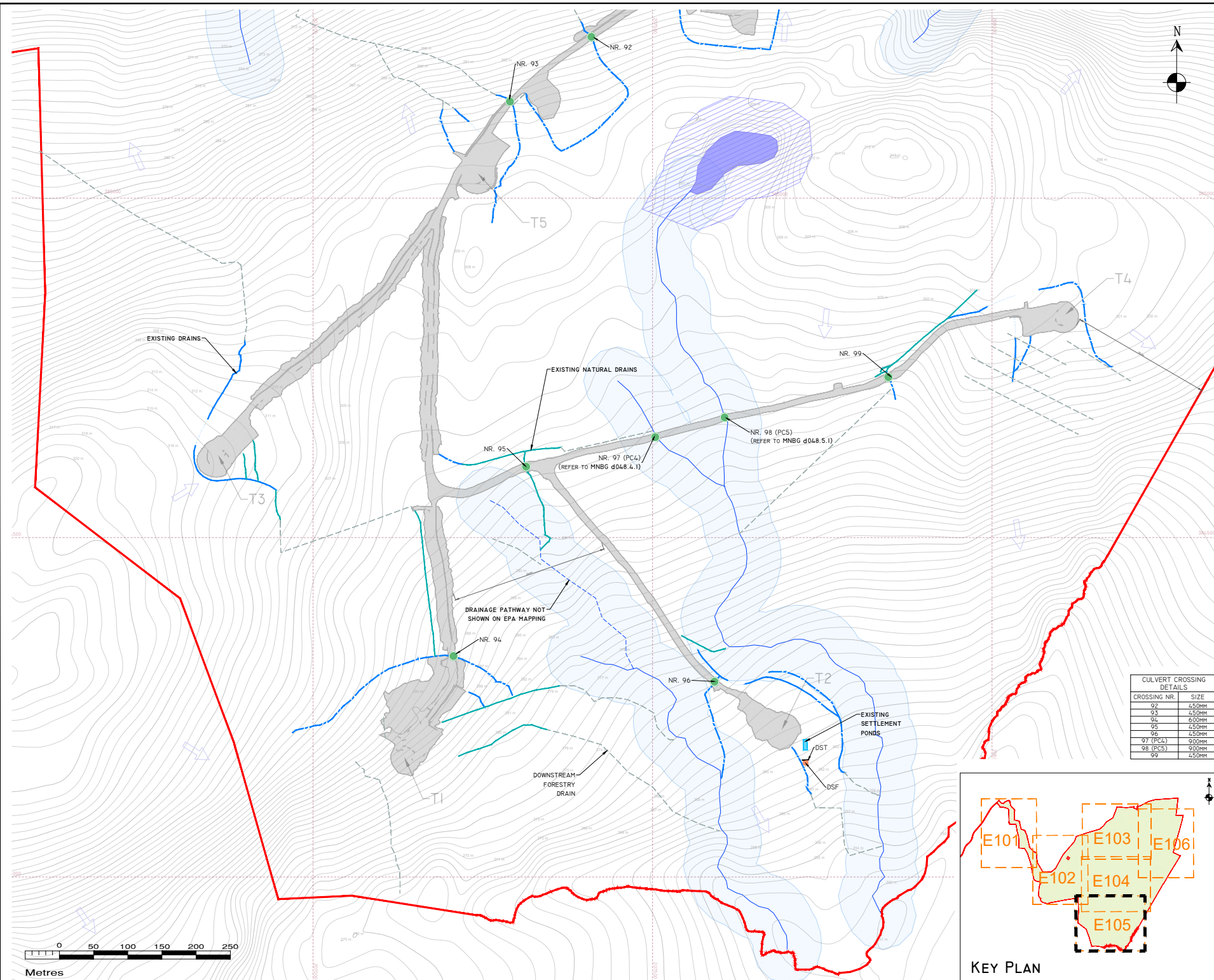
Scale: 1:2,500 (A1) Drawn By: MG/GA

Date: 25/06/2026 Checked By: MG

CULVERT CROSSING DETAILS

CROSSING NR.	SIZE
36 (EC17)	900MM
37 (EC8)	300MM
38	450MM
39	225MM
40	900MM
41 (EC7)	600MM
42	450MM
43	450MM
44	225MM
45	300MM
46	300MM
49	450MM
50 (EC15)	900MM
77	450MM
77A	300MM
78 (EC9)	900MM
79 (EC10)	900MM
80	300MM
80A	225MM
81	900MM
82	900MM
83	450MM
84 (EC11)	450MM
85	300MM
86	300MM
87	300MM
88	300MM
89 (EC11)	450MM
90	300MM
91	450MM
92	450MM
93	450MM

KEY PLAN



DRAWING LEGEND :

- PLANNING APPLICATION BOUNDARY
- EXISTING DEVELOPMENT FOOTPRINT
- SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO SHOW MAIN HEAD
- SLOPE / DRAINAGE DIRECTION
- WATERCOURSES
- WATERCOURSE BUFFER 50M
- LAKES
- LAKES 50M BUFFER
- EXISTING NATURAL DRAINS
- DOWNSTREAM FORESTRY DRAIN
- EXISTING DRAINS
- EXISTING SETTLEMENT PONDS (SP)
- EXISTING CULVERT LOCATIONS
- EXISTING SILT FENCES (SF*)
*SF - SINGLE SILT FENCE
DSF - DOUBLE SILT FENCE
MSF - MULTIPLE SILT FENCES
- EXISTING SILT TRAPS (SST*)
*SST - SINGLE SILT TRAP
DST - DOUBLE SILT TRAP
MST - MULTIPLE SILT TRAPS

EXISTING NATURAL DRAINAGE

EXISTING BUILT DRAINAGE

EXISTING DRAINAGE NOTES:

- EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENERCO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.
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- FROM THOSE WIND FARM OUTFALL LOCATIONS TREATED DRAINAGE WATER MAKES ITS WAY DOWNHILL AS SHOWN.

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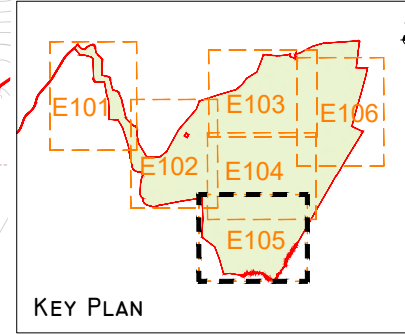
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Revisions			

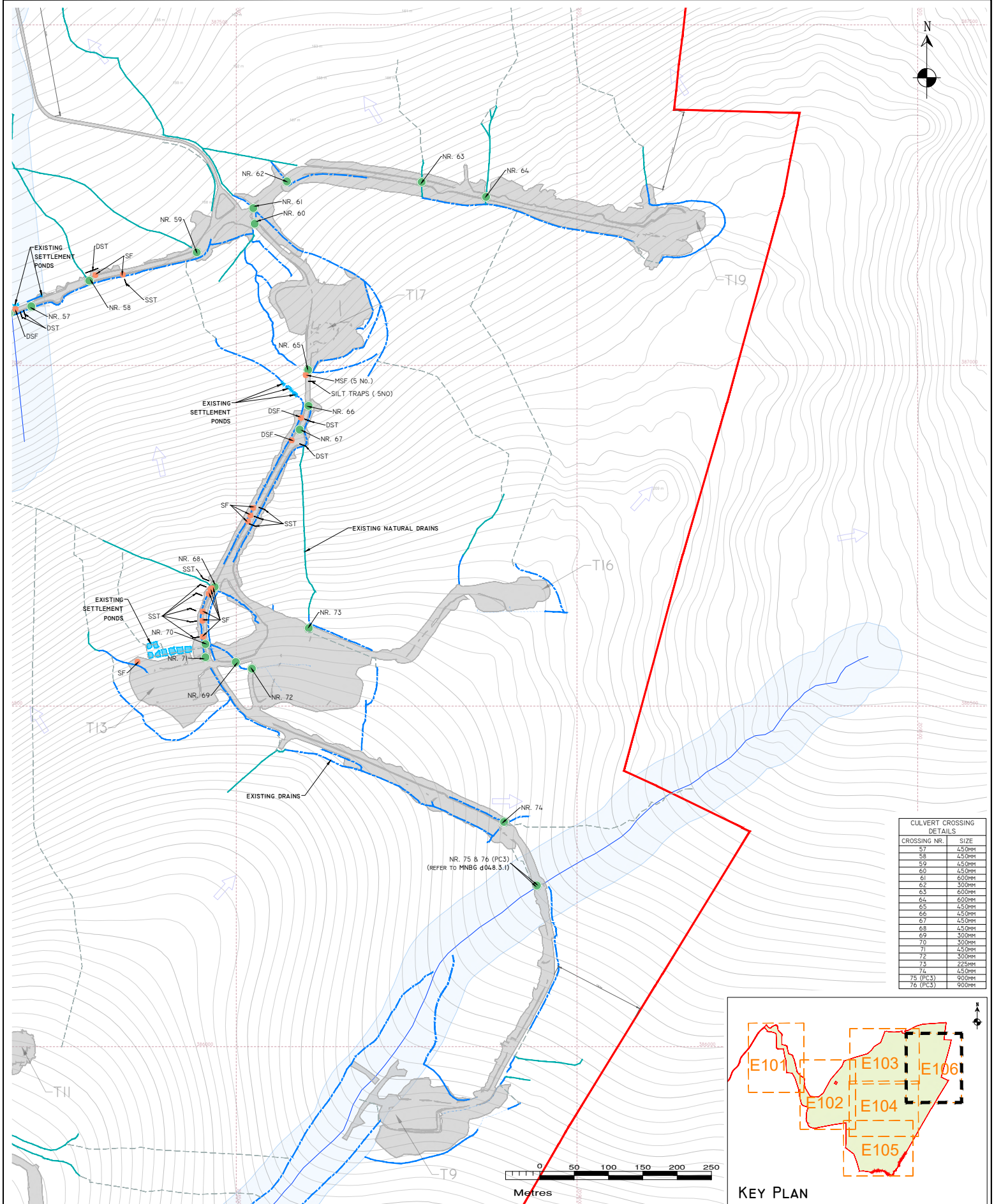
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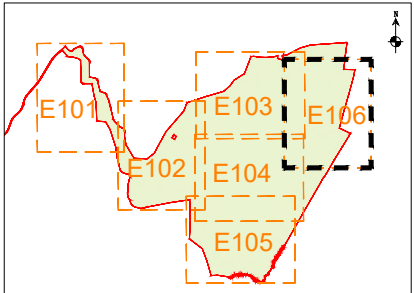
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web: www.hydroenvironmental.ie

Client:	PLANREE LTD
Job:	MEENBOG WIND FARM, Co. DONEGAL
Title:	EXISTING DEVELOPMENT DRAINAGE LAYOUT SHEET 5 OF 6
Figure No:	E105
Drawing No:	P1249-9-0426-A1-E105-00A
Sheet Size:	A1
Scale:	1:2,500 [A1]
Date:	25/06/2026
Project No.:	P1249-9
Drawn By:	MG/GA
Checked By:	MG





CULVERT CROSSING DETAILS	
CROSSING NR.	SIZE
57	450mm
58	450mm
59	450mm
60	450mm
61	600mm
62	600mm
63	600mm
64	600mm
65	450mm
66	450mm
67	450mm
68	450mm
69	300mm
70	300mm
71	450mm
72	300mm
73	225mm
74	450mm
75 (PC3)	900mm
76 (PC3)	900mm



KEY PLAN



DRAWING LEGEND :

- PLANNING APPLICATION BOUNDARY
- EXISTING DEVELOPMENT FOOTPRINT
- SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO HO'D MAIN HEAD
- SLOPE / DRAINAGE DIRECTION
- WATERCOURSES
- WATERCOURSE BUFFER 50M
- LAKES
- LAKES 50M BUFFER
- EXISTING NATURAL DRAINS
- DOWNSTREAM FORESTRY DRAIN

EXISTING DRAINS

- EXISTING SETTLEMENT PONDS
- EXISTING CULVERT LOCATIONS
- EXISTING SILT FENCES (SF*)
- SF - SINGLE SILT FENCE
- DGF - DOUBLE SILT FENCE
- HST - MULTIPLE SILT FENCES
- EXISTING SILT TRAPS (SST*)
- *SST - SINGLE SILT TRAP
- DST - DOUBLE SILT TRAP
- HST - MULTIPLE SILT TRAPS

EXISTING BUILT DRAINAGE

EXISTING DRAINAGE NOTES:

1. EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENERO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.

2. EXISTING DRAINAGE REFLECTS ALL RESIDUAL DRAINS, CULVERTS, SETTLEMENT PONDS, SILT TRAPS AND SILT FENCING INSTALLED AS PART OF PREVIOUS CONSTRUCTION WORKS.

3. ONLY THE DOWNSTREAM CONNECTIONS TO WATERCOURSES VIA THE FORESTRY DRAINAGE NETWORK ARE SHOWN FOR EACH WIND FARM OUTFALL. THE ENTIRE DOWNSTREAM FORESTRY DRAINAGE NETWORK IS NOT SHOWN.

4. FROM THOSE WIND FARM OUTFALL LOCATIONS TREATED DRAINAGE WATER MAKES ITS WAY DOWNHILL AS SHOWN.

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Revisions			

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Job: MEENBEG WIND FARM, CO. DONEGAL

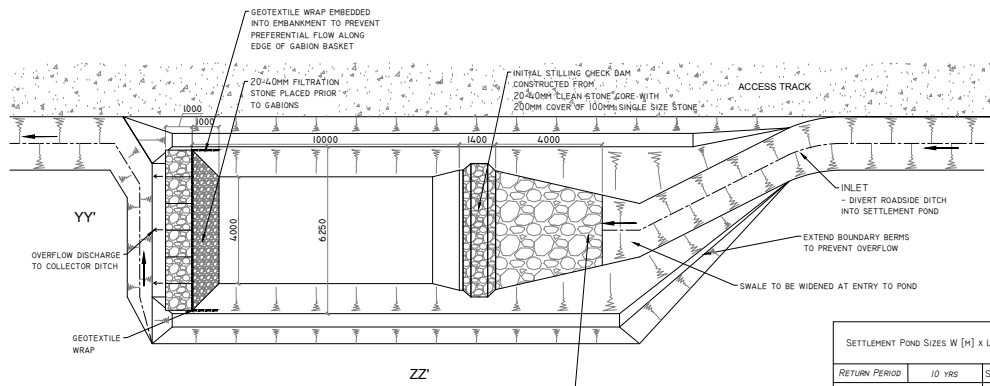
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SHEET 6 OF 6

Figure No: E106

Drawing No: P1249-9-0626-A1-E106-00A

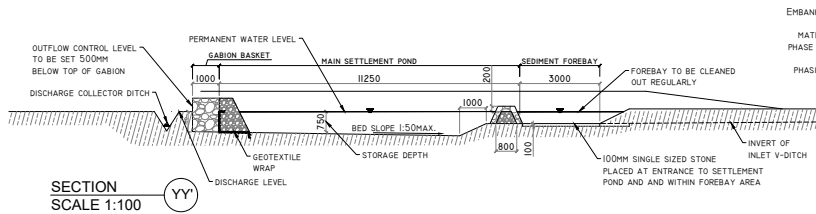
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Date: 25/06/2026

Project No: P1249-9
Drawn By: MG/GA
Checked By: MG

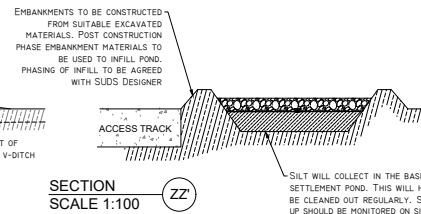


TYPE A - ROAD SIDE SETTLEMENT POND DETAIL
SCALE 1:100 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)

SETTLEMENT POND SIZES W [m] x L [m] x D [m]				MEENBOG WIND FARM TRACKS/HARDSTANDS CATCHMENT AREAS (M ²)		
RETURN PERIOD	10 YRS	STORM DURATION	500	1000	2000	
6HR RETENTION FOR COARSE SILT	6 HRS		2.4 x 11.0 x 1M	4.6 x 14.2 x 1M	8.0 x 22.5 x 1M	
11HR RETENTION FOR MEDIUM SILT	12 HRS		4.0 x 12.5 x 1M	6.0 x 22.0 x 1M	10.0 x 36.0 x 1M	
24HR RETENTION FOR FINE SILT	24 HRS		6.0 x 17.0 x 1M	9.0 x 29.0 x 1M	16.0 x 44.5 x 1M	

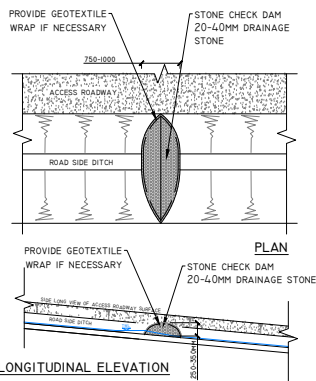


SECTION YY'
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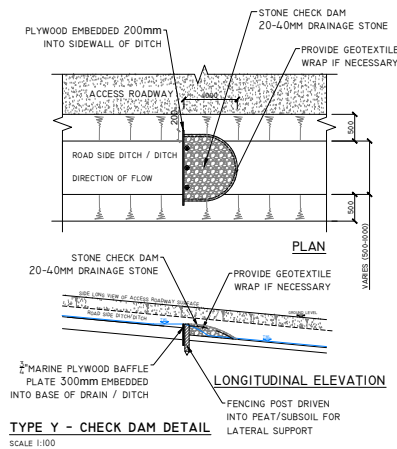
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DETAIL C



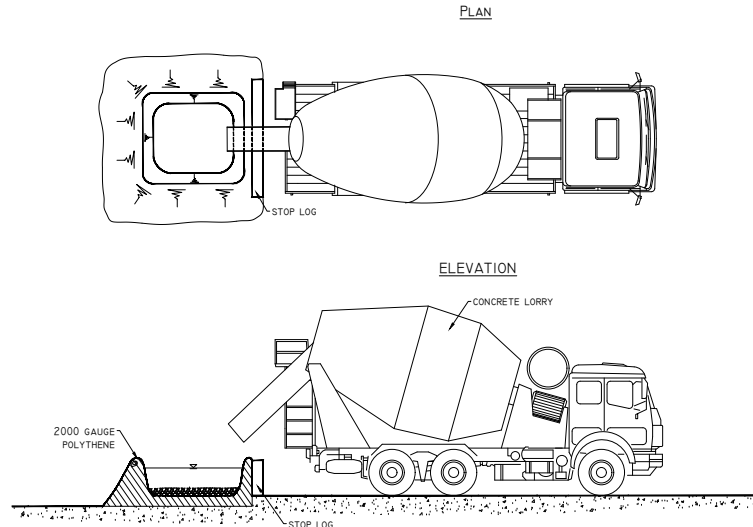
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SCALE 1:50

DETAIL D

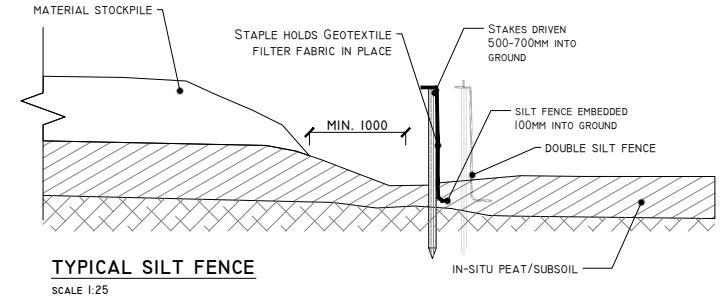


TYPE Y - CHECK DAM DETAIL
SCALE 1:100

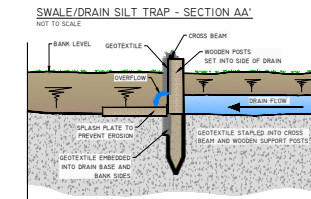
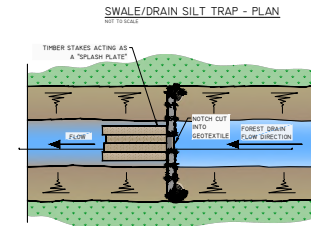
DETAIL E TEMPORARY CONCRETE WASH OUT PIT



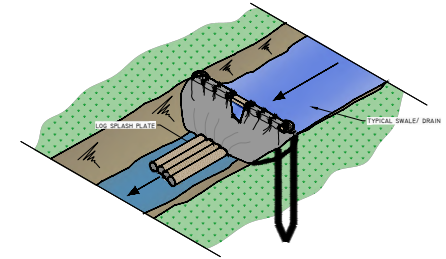
DETAIL B



TYPICAL SILT FENCE
SCALE 1:25



SWALE/RAIN SILT TRAP - ISOMETRIC
NOT TO SCALE



DETAIL F

Project: Drainage Details
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Date	Description	Chkd	Signed
Revisions			
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Client:		PLANREE LTD	
Job:		MEENBOG WIND FARM, Co. DONEGAL	
Title:		DRAINAGE DETAILS	
Figure No:		D50J	
Drawing No: P1249-9-0626-A1-D501-00A			
Sheet Size: A1	Project No.: P1249-9		
Scale: as shown (A1)	Drawn By: GA/MG		
Date: 25/06/2026	Checked By: MG		