

NOTES:

GENERAL

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3. Additional temporary drainage / mitigation will be provided during the construction phase on an observational basis.
4. All drainage management features shown should be read in conjunction with relevant typical detail drawings.

POLLUTION PREVENTION

5. Temporary or permanent drainage / silt management features including settlement features and drainage crossings should be installed prior to or in parallel with construction of new access roads / hardstanding to prevent the conveyance of silts to receiving watercourses.
6. Interim measures to be employed in all instances where work carried out is likely to cause adverse environmental impacts through increased silt loadings being generated during the construction phase.
7. Oil fuel should be stored within containment and cement should be mixed within compound / containment, tools washed in the same area and water recycled (in the cement mix).
8. Direct discharge of untreated track drainage to watercourses shall not be permitted.
9. DO NOT pump water direct to watercourses.
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NOTIFY - The relevant authorities and Client/Developer should be notified immediately to ensure that measures can be implemented downstream to protect fish habitat and other sensitive areas.

TRACK / INFRASTRUCTURE DRAINAGE

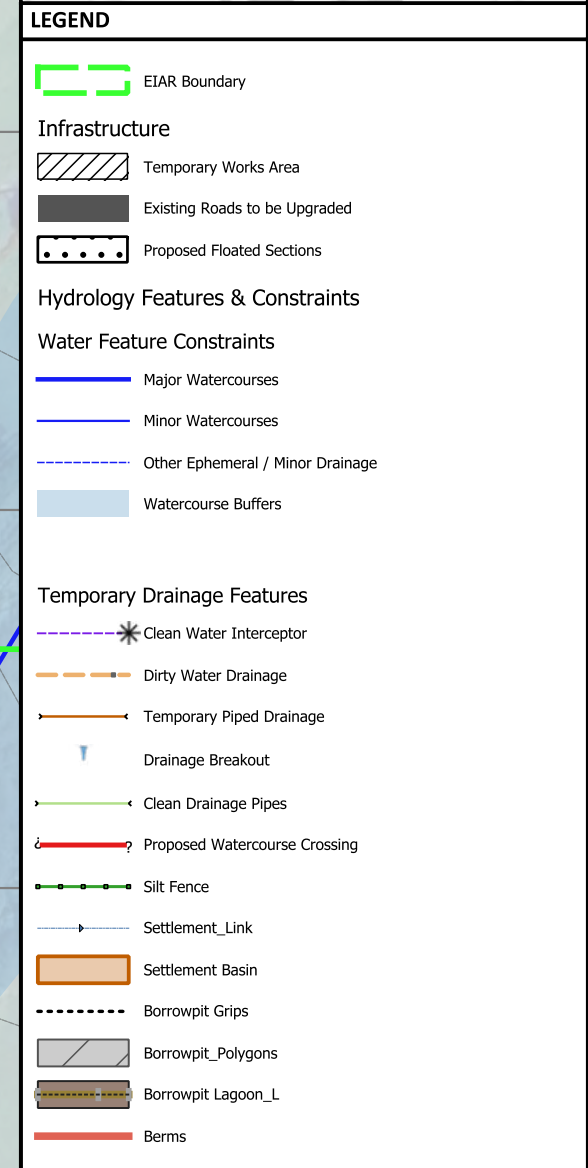
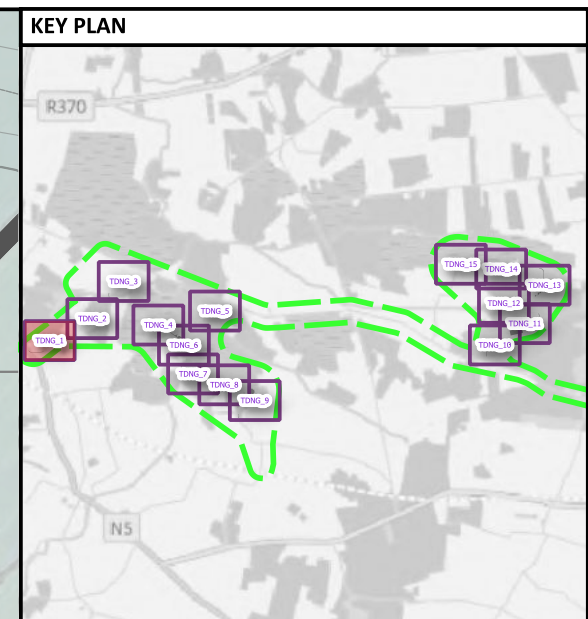
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13. Settlement/attenuation ponds are retained following completion of construction activities.
14. Batters of swales to have dimensions as per separately issued typical detail drawing. Swale to be re-vegetated with local species.
15. Slopes of swales to be vegetated or protected from erosion until vegetation has been established. Stripped vegetative layer from excavations to be stored locally and used to line slopes and base of swale. Vegetative layer to be placed into swale after construction of the swale.
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17. Swale breakouts to be installed at regular intervals (every c. 80m).

WATERCOURSE & TRACK DRAINAGE CROSSINGS

18. The minimum pipe diameter for any track drainage crossing shall be 450mm.
19. All HDPE pipes shall be twinwall type, BBA HAPAS approved.
20. All watercourse crossings to be installed min. 0.15m below existing bed level and to suit existing stream channel gradients.
21. Refer to Watercourse Crossing Schedule for min. soffit levels.

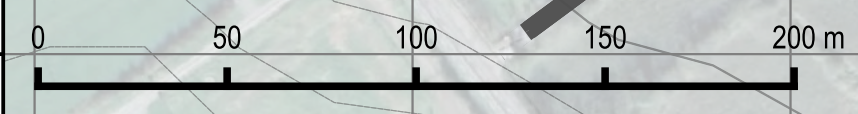
MAINTENANCE

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LINED CONCRETE / CEMENT WASH-OUT PIT. COLLECTED WATER TO BE DISPOSED OF OFF-SITE.

TEMPORARY COMPOUND. ALL FUEL / OIL STORAGE TO BE ON IMPERMEABLE BUNDED SURFACE. TEMPORARY WASTEWATER FROM WELFARE FACILITIES TO SEALED TANK.



CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION				
LAYOUT SHEET 1				
PROJECT / FIGURE NO.				
M02232-01_TDNG_1				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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TRACK / INFRASTRUCTURE DRAINAGE

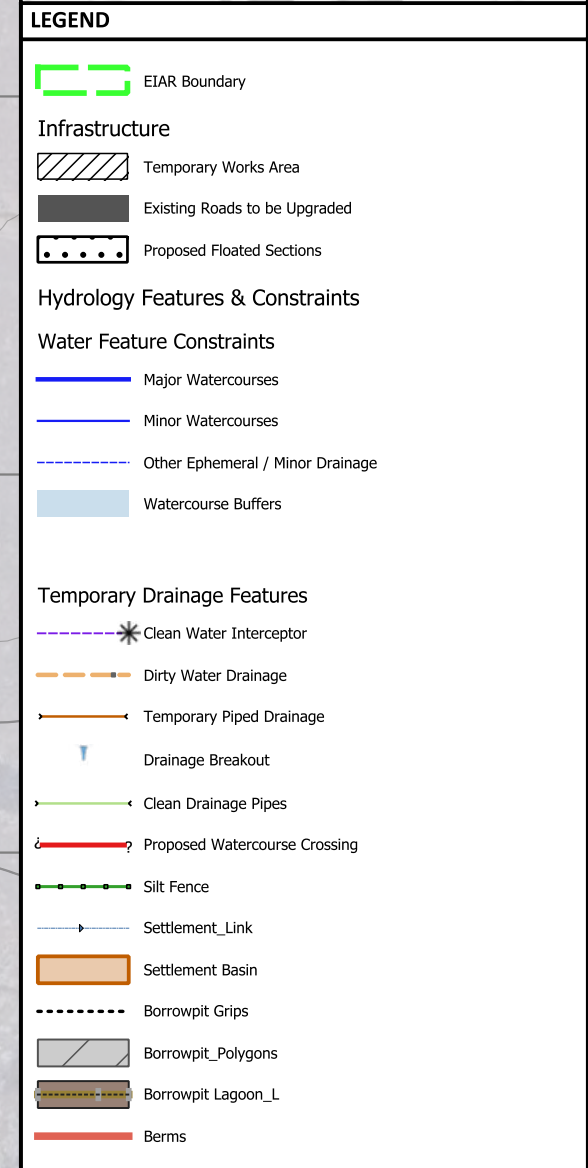
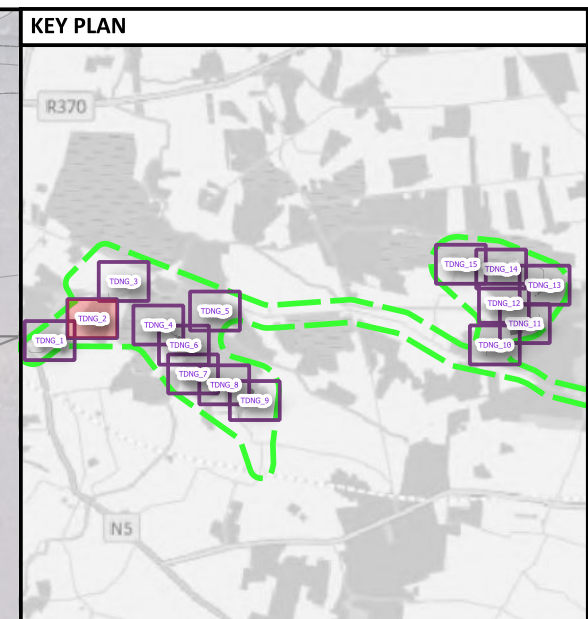
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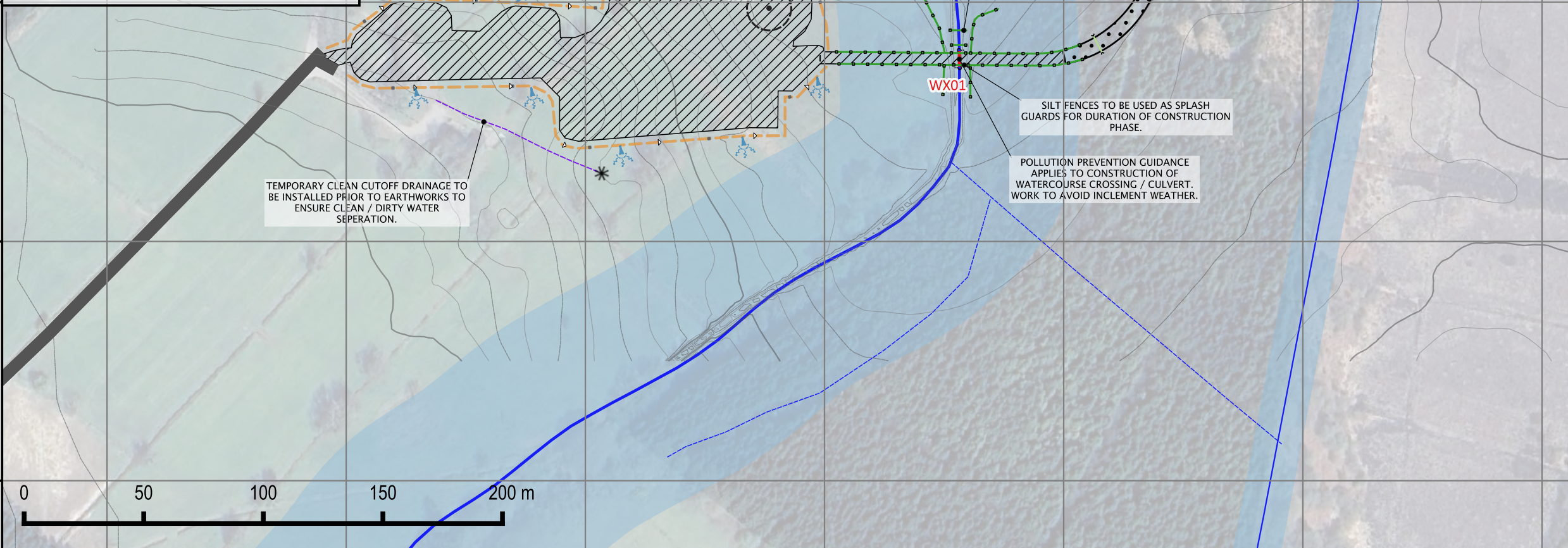
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Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX01	66.72	Clear span bridge or bottomless culvert



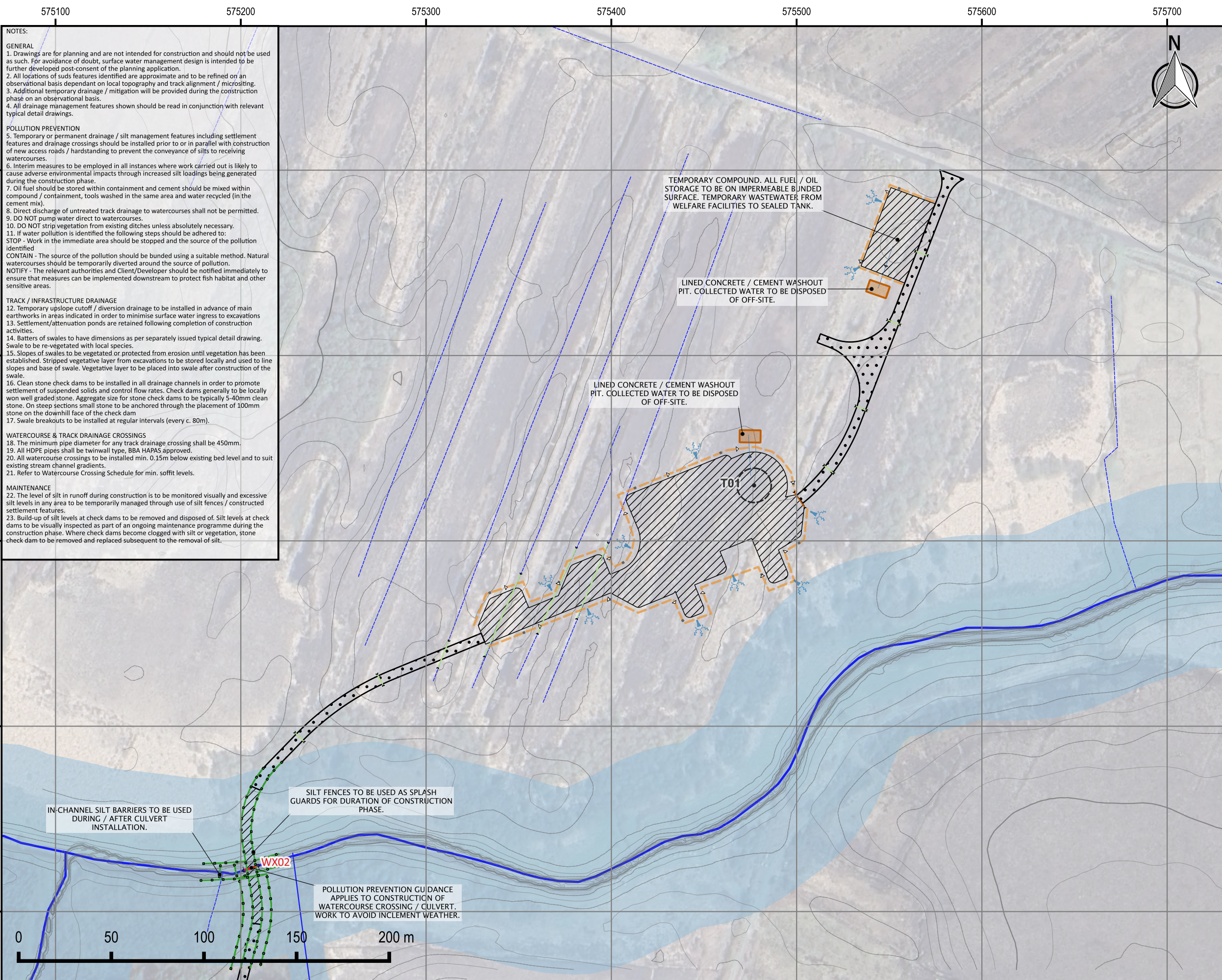
IE +353 (0) 1 5138963
 UK +44 (0) 28 9084 8694
 E: info@mcclloyconsulting.com
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION				
LAYOUT SHEET 2				
PROJECT / FIGURE NO.				
M02232-01_TDNG_2				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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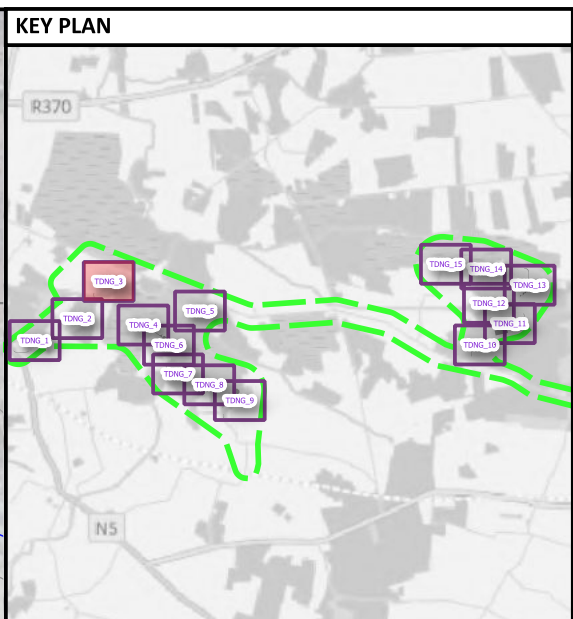
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 - Hydrology Features & Constraints**
 - Water Feature Constraints**
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 - Minor Watercourses
 - Other Ephemeral / Minor Drainage
 - Watercourse Buffers
 - Temporary Drainage Features**
 - Clean Water Interceptor
 - Dirty Water Drainage
 - Temporary Piped Drainage
 - Drainage Breakout
 - Clean Drainage Pipes
 - Proposed Watercourse Crossing
 - Silt Fence
 - Settlement_Link
 - Settlement Basin
 - Borrowpit Grips
 - Borrowpit_Polygons
 - Borrowpit Lagoon_L
 - Berms

Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX02	66.62	Clear span bridge or bottomless culvert

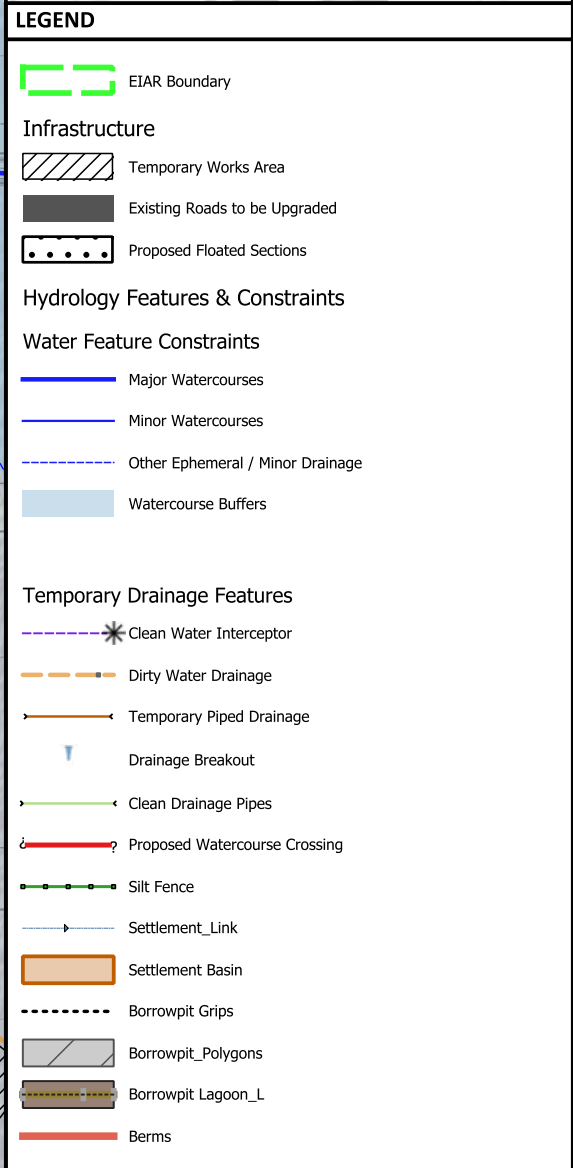
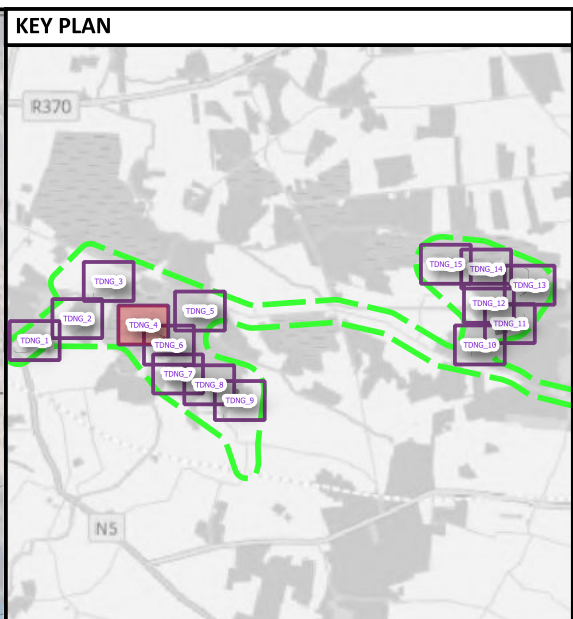
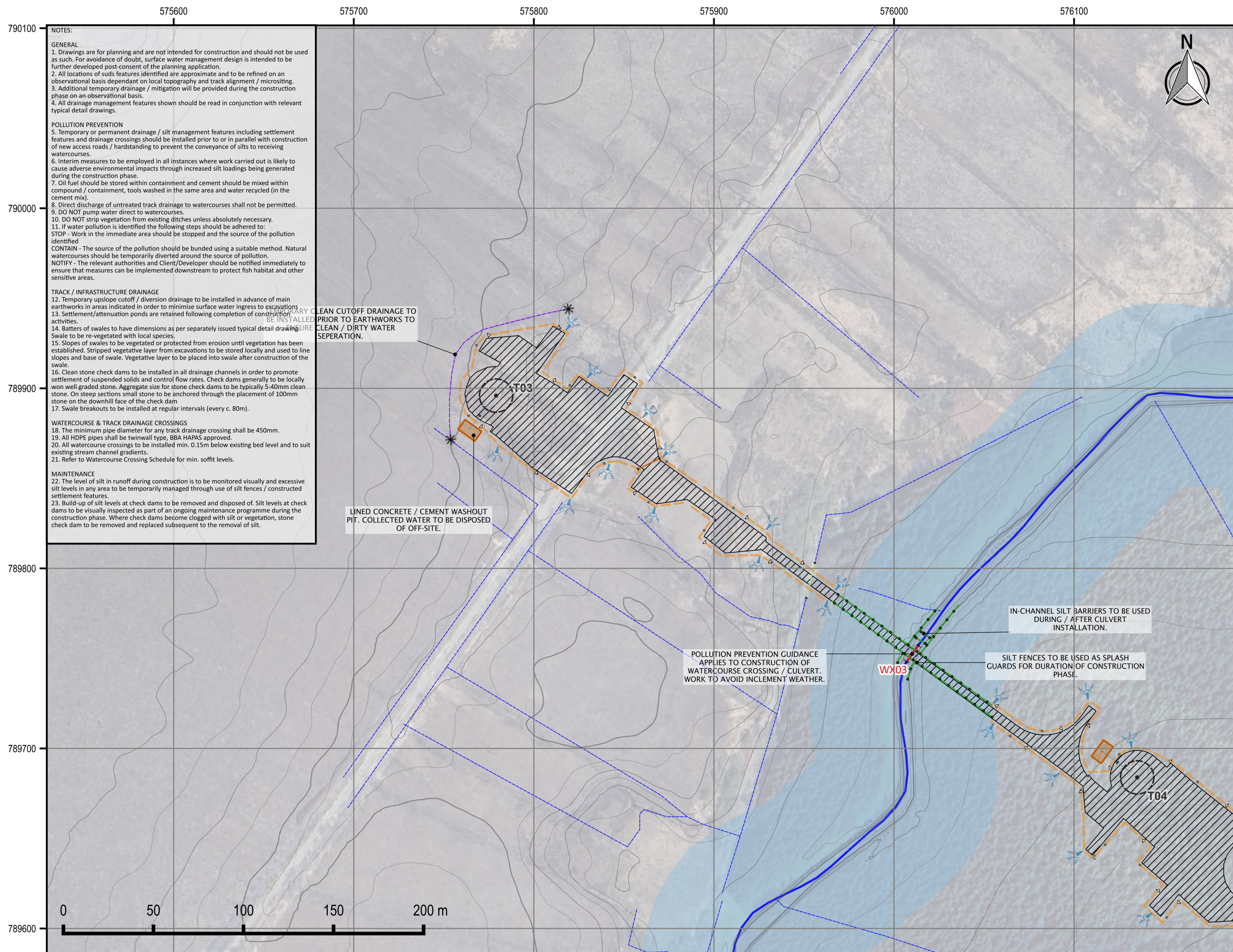
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 3				
PROJECT / FIGURE NO. M02232-01_TDNG_3				
DRAWN BY	SCALE	REVISION	DATE	
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BACKGROUND MAP CONTAINS OPENSTREETMAP DATA © OSM CONTRIBUTORS (2026)

PLANNING DESIGN



Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX03	66	Clear span bridge or bottomless culvert

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TRACK / INFRASTRUCTURE DRAINAGE

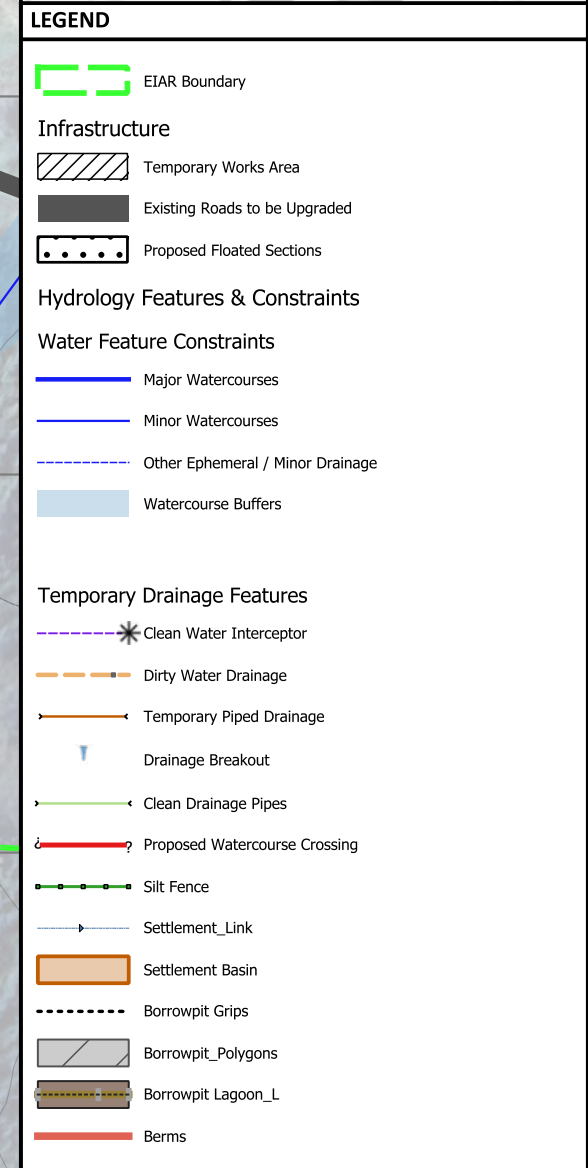
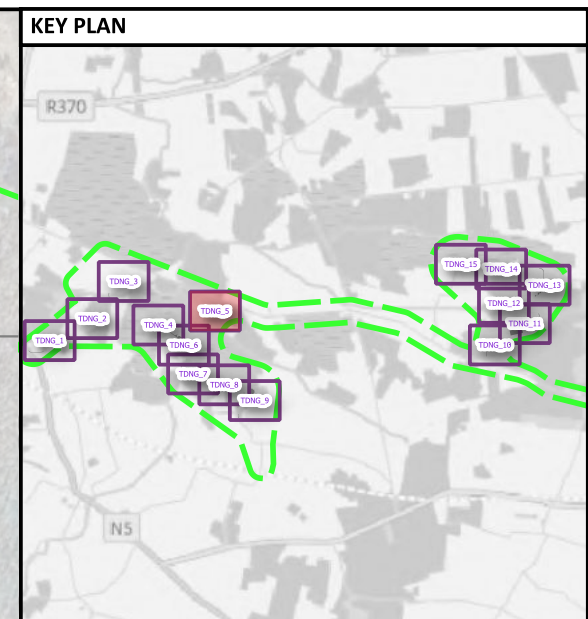
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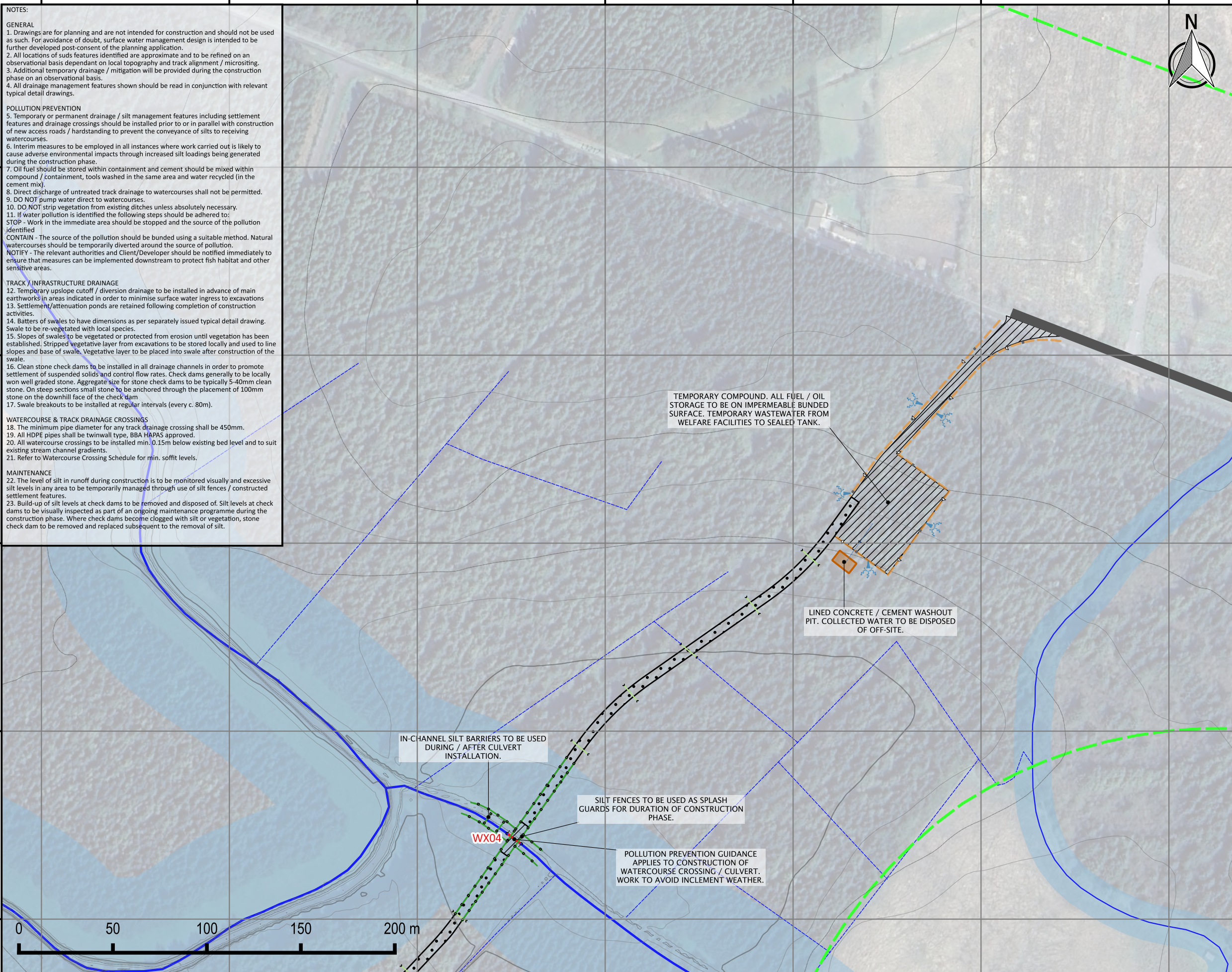
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WX04	65.8	Clear span bridge or bottomless culvert



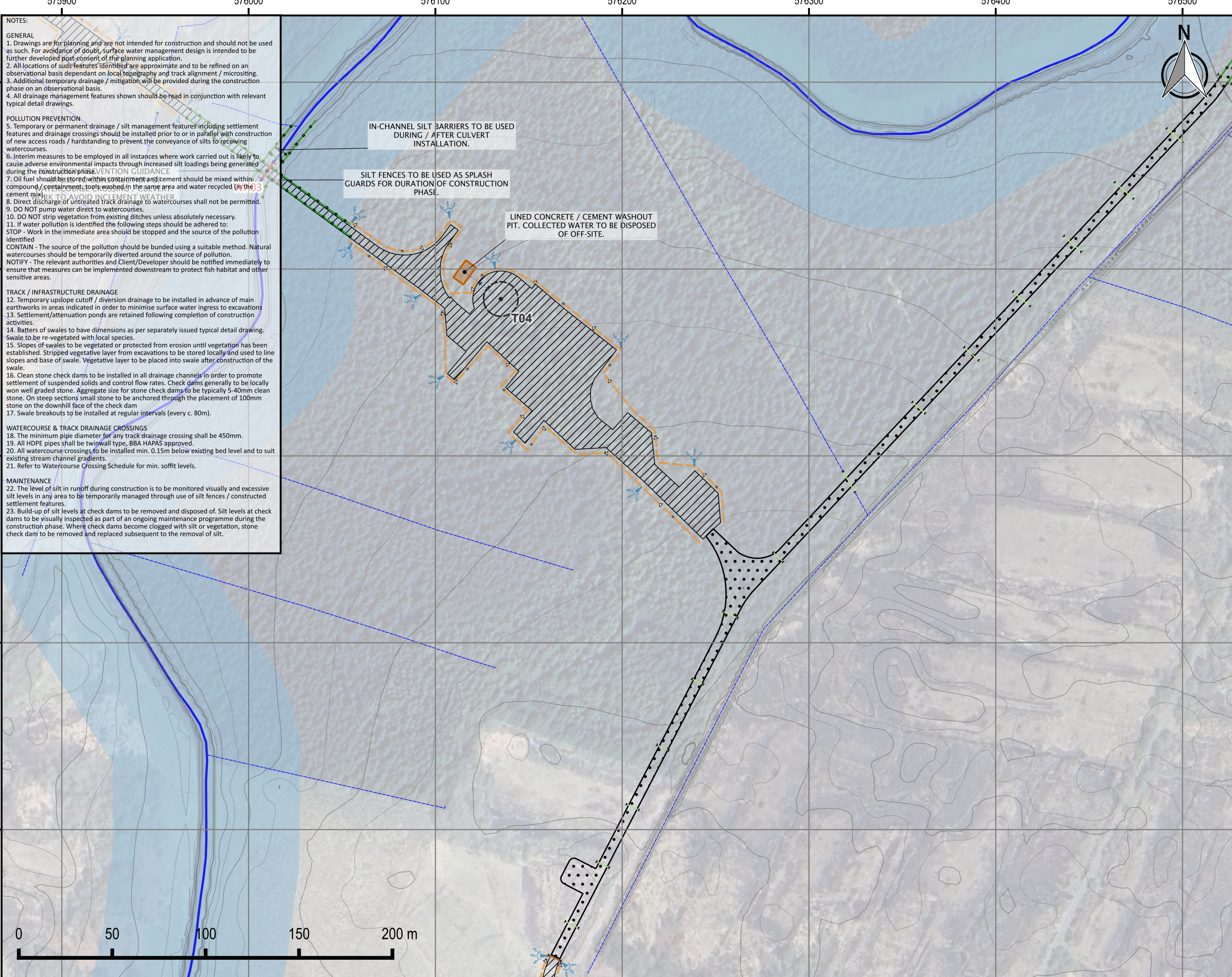
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 6				
PROJECT / FIGURE NO. M02232-01_TDNG_5				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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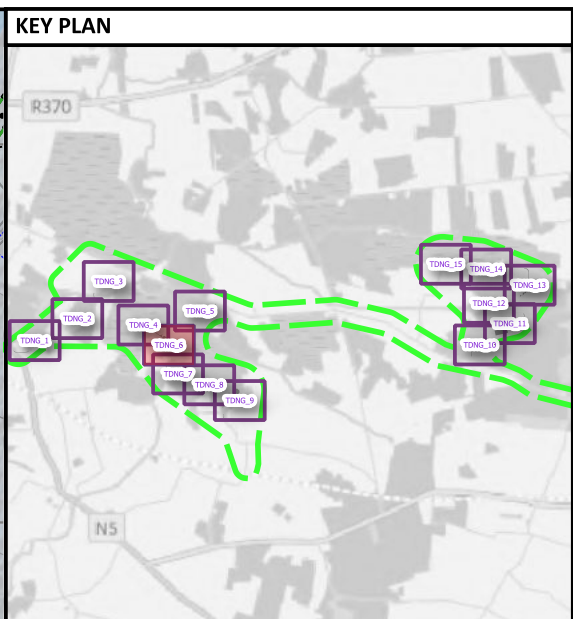
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Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX03	66	Clear span bridge or bottomless culvert

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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 4				
PROJECT / FIGURE NO. M02232-01_TDNG_6				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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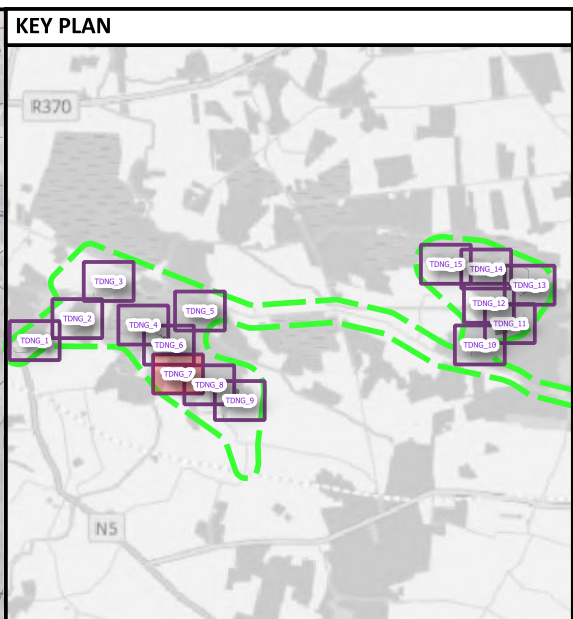
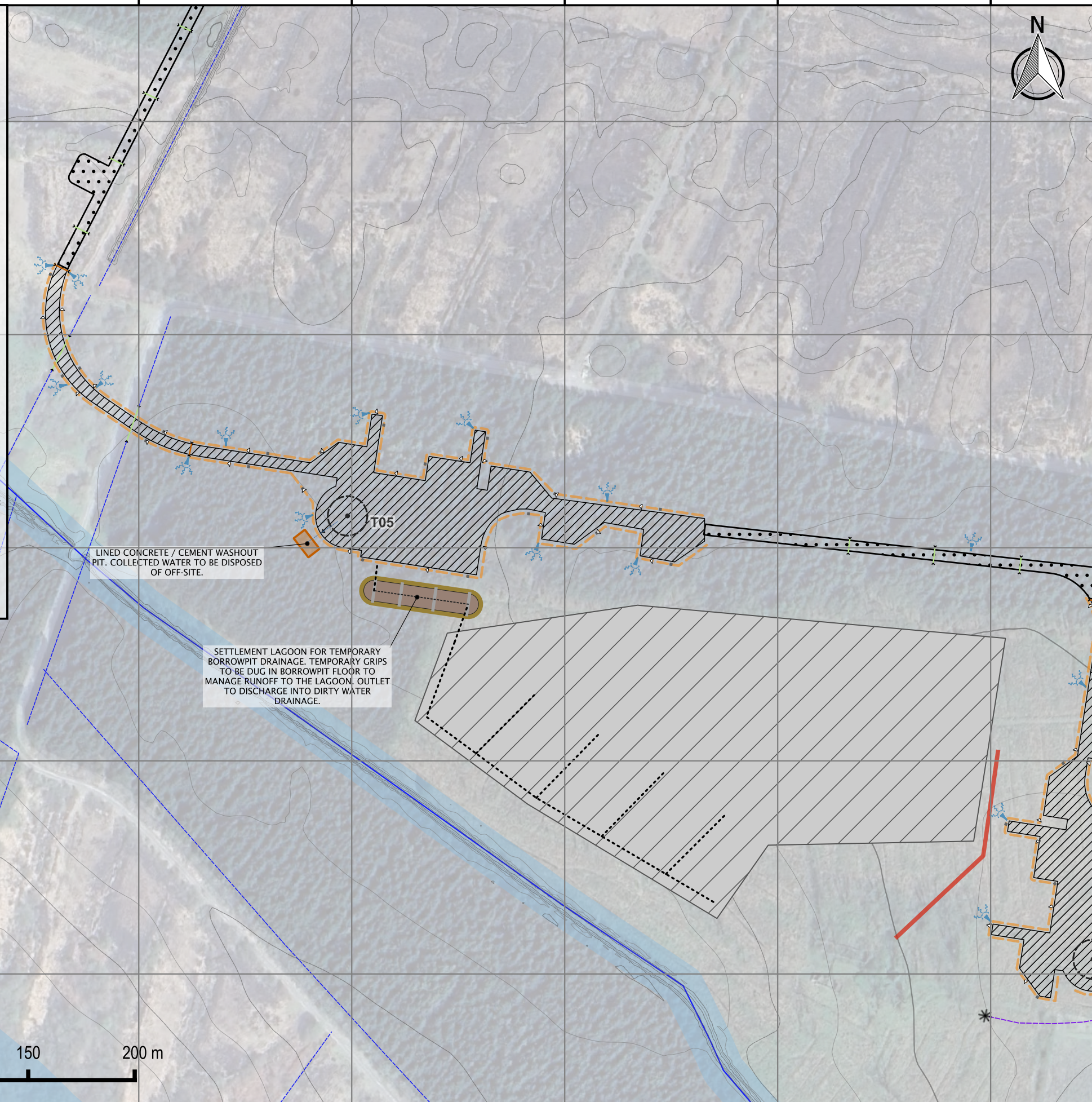
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17. Swale breakouts to be installed at regular intervals (every c. 80m).

WATERCOURSE & TRACK DRAINAGE CROSSINGS

18. The minimum pipe diameter for any track drainage crossing shall be 450mm.
19. All HDPE pipes shall be twinwall type, BBA HAPAS approved.
20. All watercourse crossings to be installed min. 0.15m below existing bed level and to suit existing stream channel gradients.
21. Refer to Watercourse Crossing Schedule for min. soffit levels.

MAINTENANCE

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LEGEND

- EIAR Boundary
- Infrastructure**
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 - Proposed Floated Sections
- Hydrology Features & Constraints**
 - Water Feature Constraints**
 - Major Watercourses
 - Minor Watercourses
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 - Watercourse Buffers
- Temporary Drainage Features**
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 7				
PROJECT / FIGURE NO. M02232-01_TDNG_7				
DRAWN BY DH	SCALE 1:2000	REVISION 2	DATE 26/03/2026	

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PLANNING DESIGN

576500

576600

576700

576800

576900

577000

NOTES:

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TRACK / INFRASTRUCTURE DRAINAGE

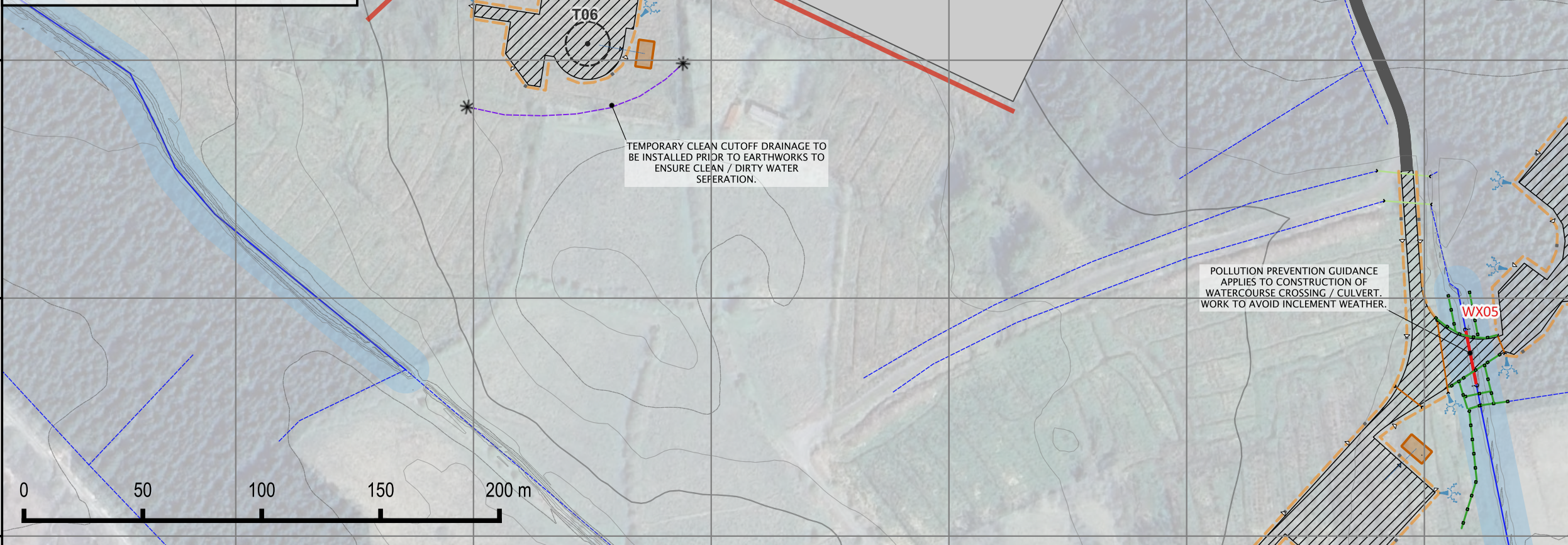
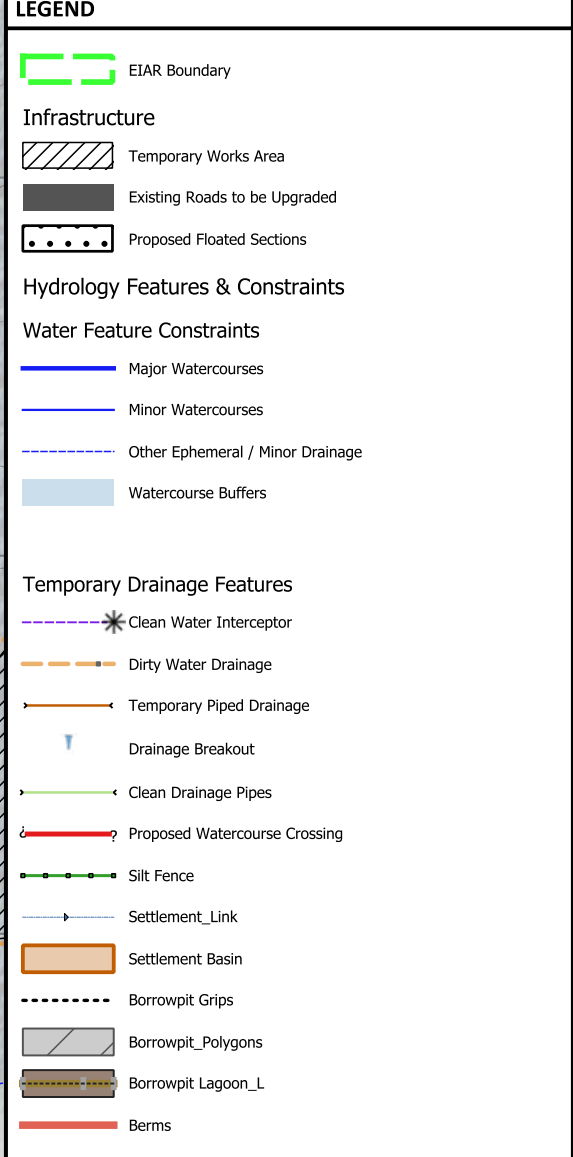
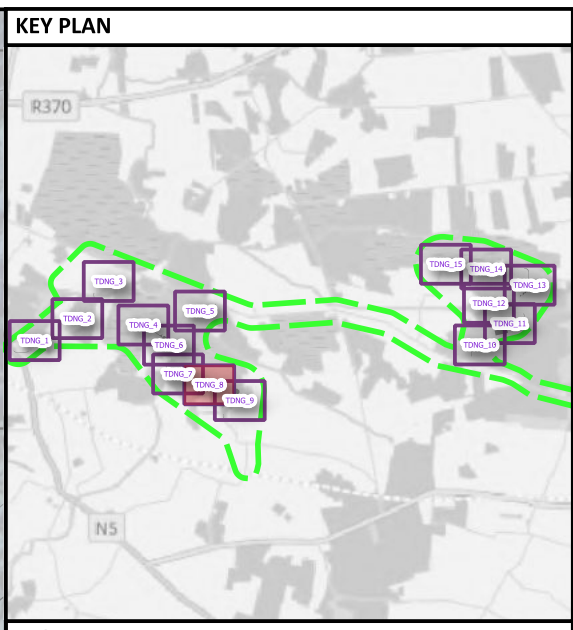
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SETTLEMENT LAGOON FOR TEMPORARY BORROWPIT DRAINAGE. TEMPORARY GRIPS TO BE DUG IN BORROWPIT FLOOR TO MANAGE RUNOFF TO THE LAGOON. OUTLET TO DISCHARGE INTO DIRTY WATER DRAINAGE.

TEMPORARY CLEAN CUTOFF DRAINAGE TO BE INSTALLED PRIOR TO EARTHWORKS TO ENSURE CLEAN / DIRTY WATER SEPERATION.

POLLUTION PREVENTION GUIDANCE APPLIES TO CONSTRUCTION OF WATERCOURSE CROSSING / CULVERT. WORK TO AVOID INCLEMENT WEATHER.

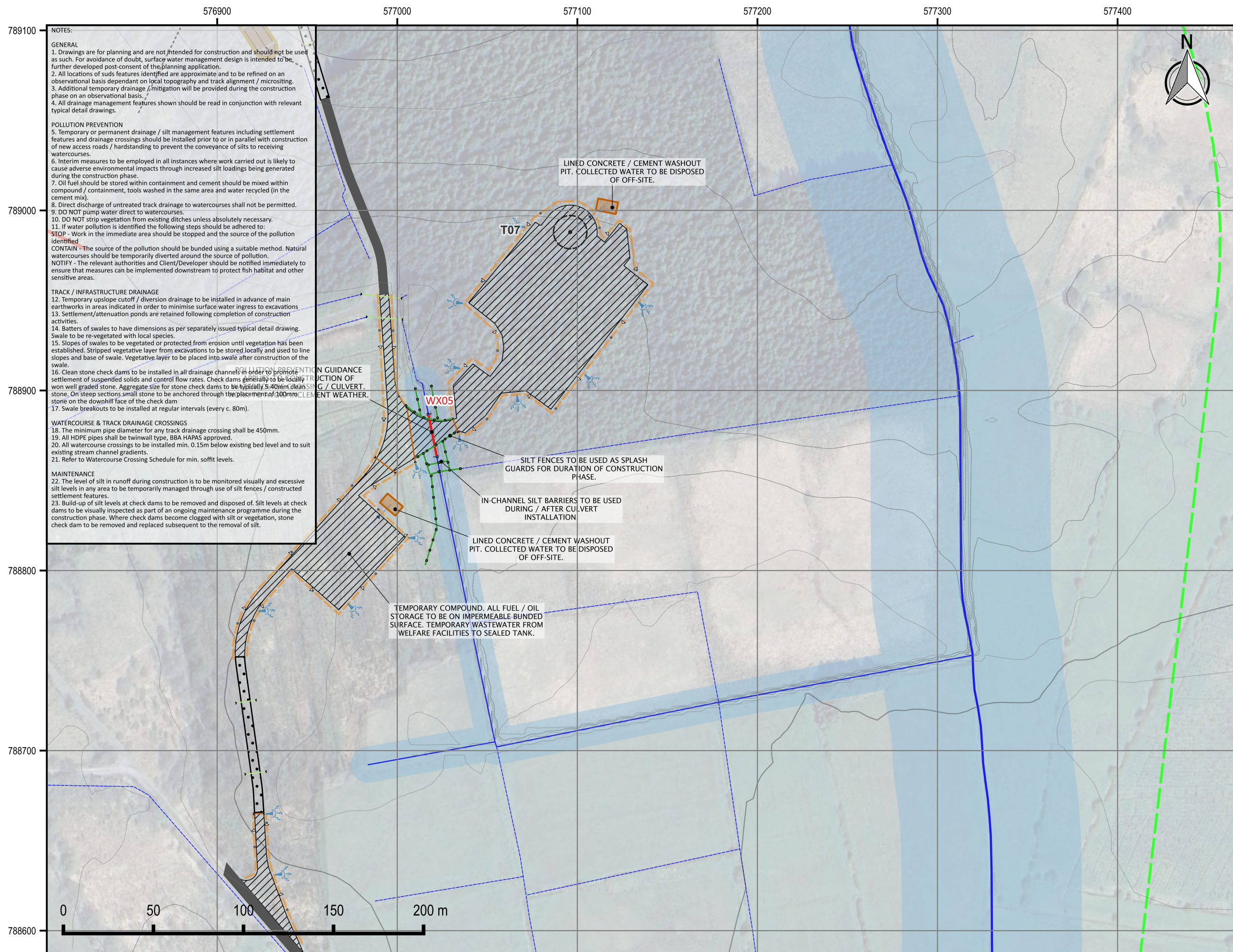
CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION		LAYOUT SHEET 8		
PROJECT / FIGURE NO.		M02232-01_TDNG_8		
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX05	68.4	Clear span bridge or bottomless culvert

PLANNING DESIGN



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TRACK / INFRASTRUCTURE DRAINAGE

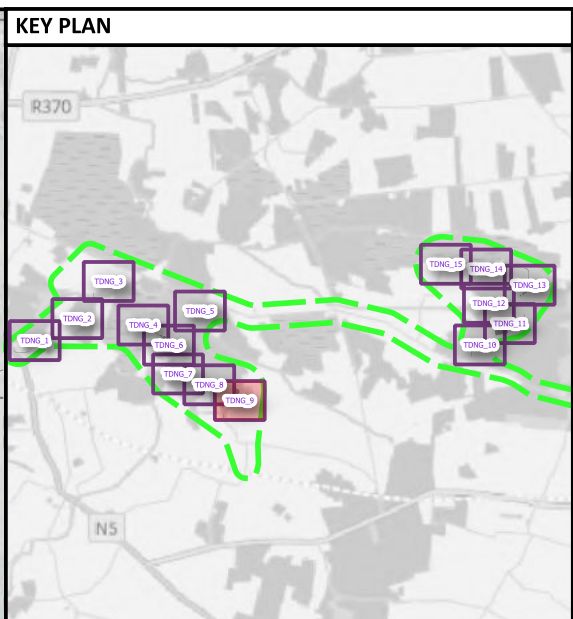
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 - Borrowpit_Polygons
 - Borrowpit Lagoon_L
 - Berms

Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX05	68.4	Clear span bridge or bottomless culvert

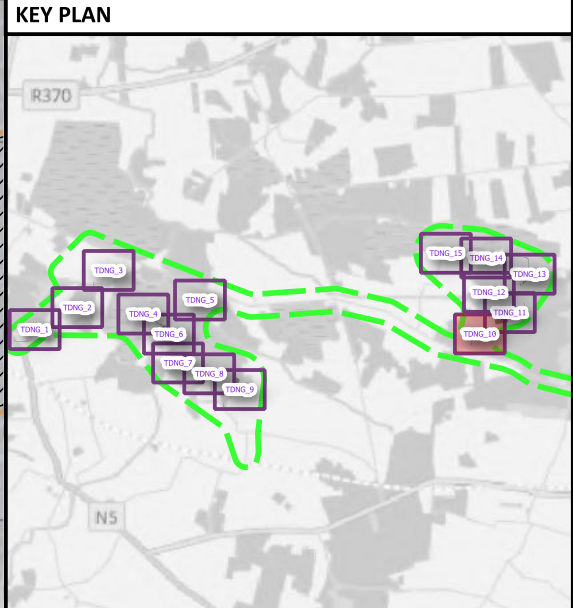
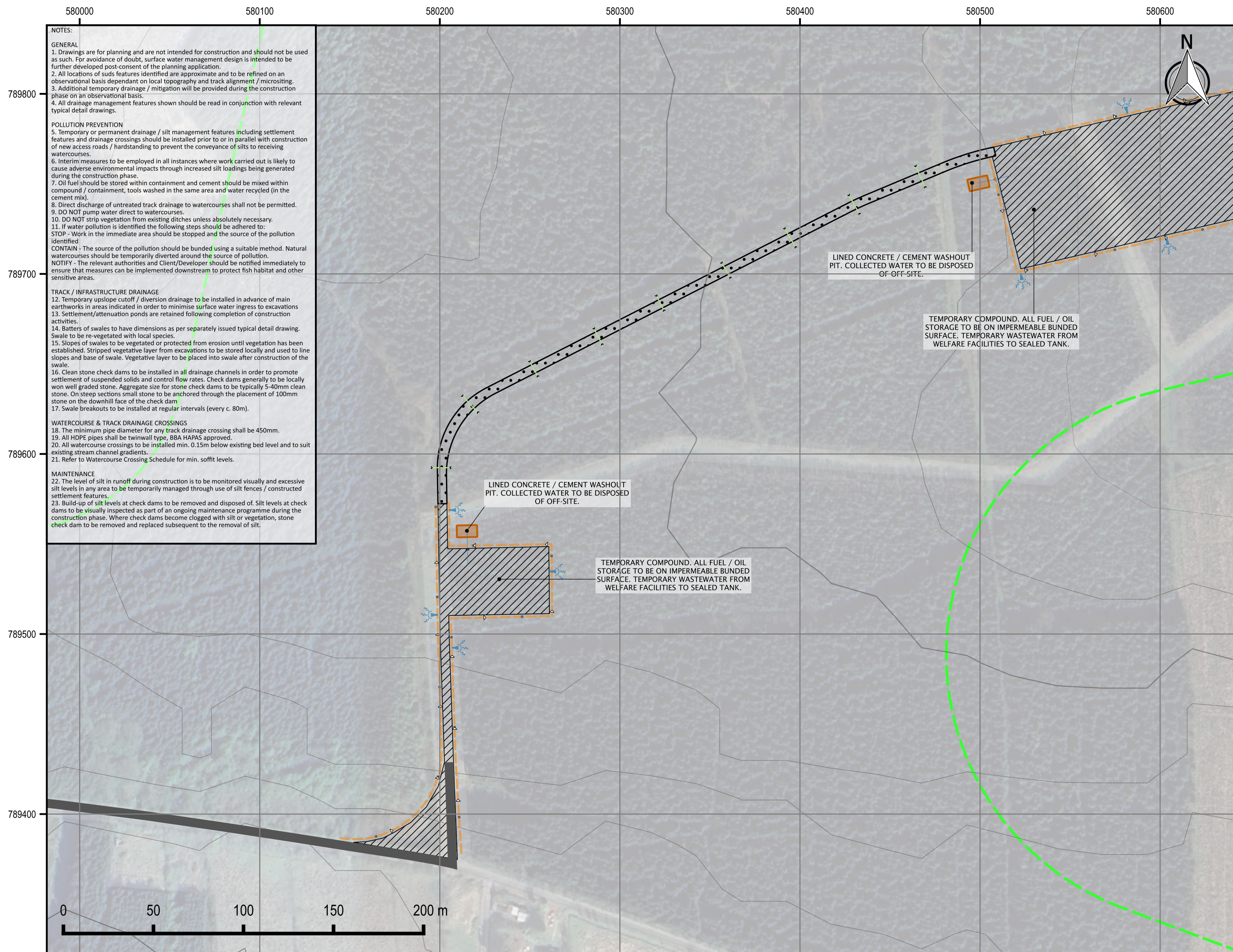
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 9				
PROJECT / FIGURE NO. M02232-01_TDNG_9				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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PLANNING DESIGN



LEGEND

- EIAR Boundary
- Infrastructure**
 - Temporary Works Area
 - Existing Roads to be Upgraded
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NOTES:

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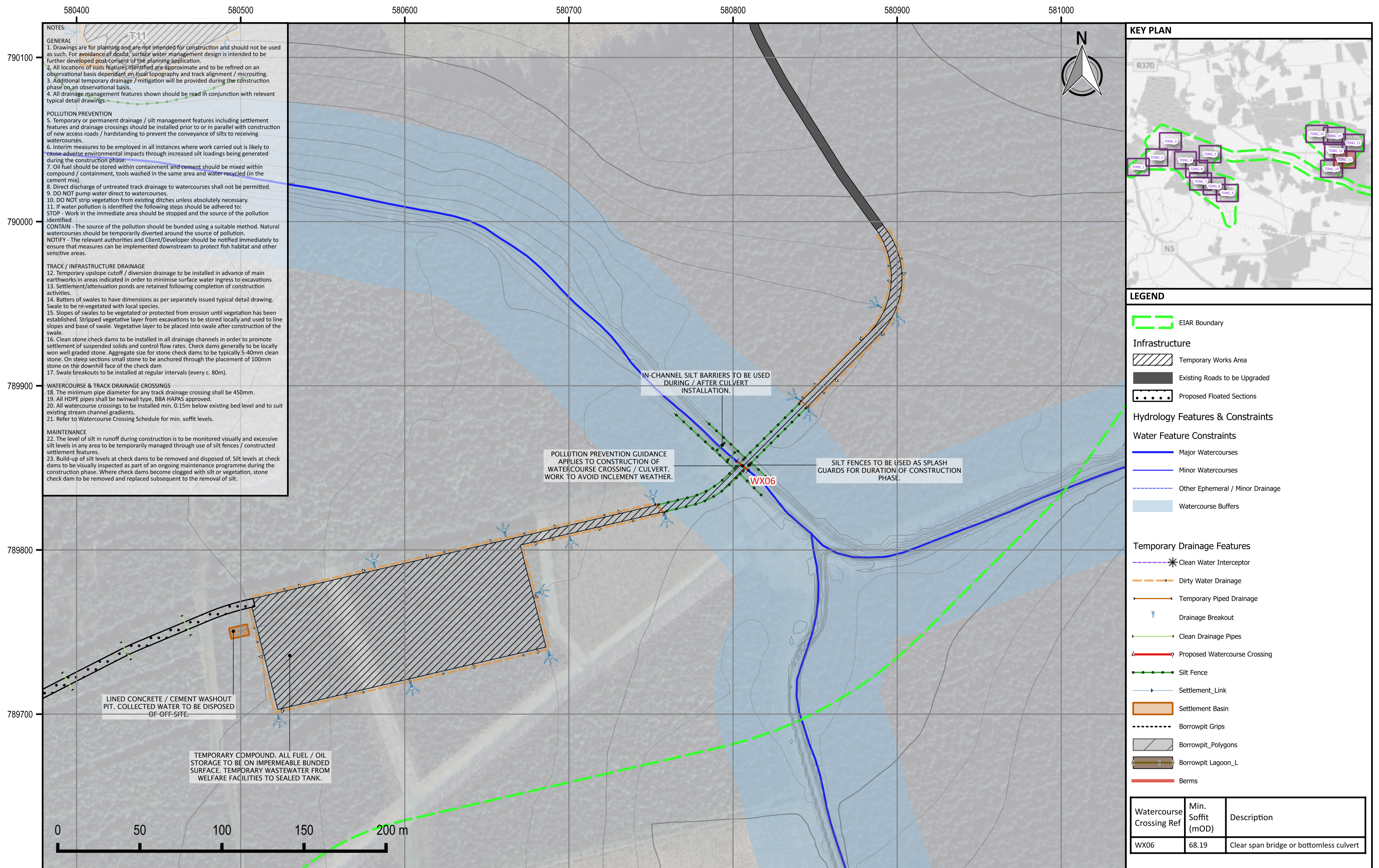
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 10				
PROJECT / FIGURE NO. M02232-01_TDNG_10				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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PLANNING DESIGN



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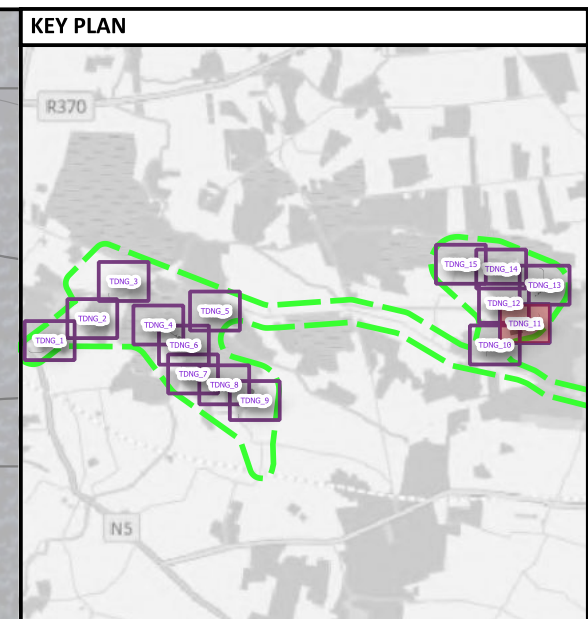
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 - Borrowpit Lagoon_L
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Watercourse Crossing Ref	Min. Soffit (mOD)	Description
WX06	68.19	Clear span bridge or bottomless culvert

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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 11				
PROJECT / FIGURE NO. M02232-01_TDNG_11				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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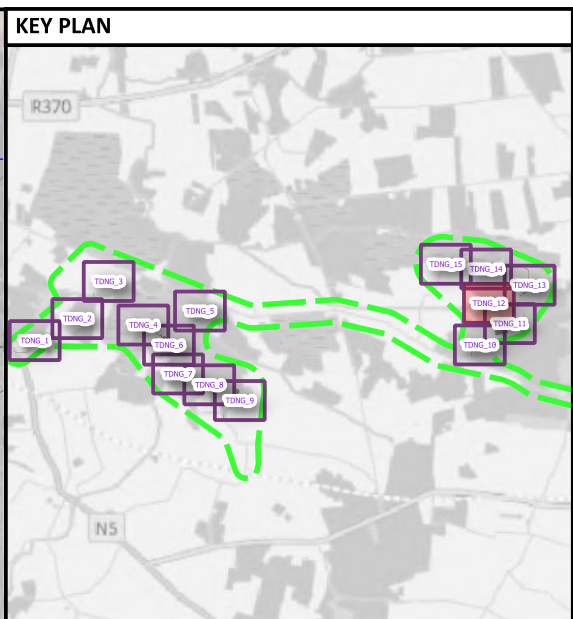
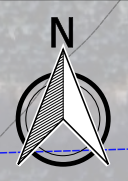
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 - Borrowpit_Polygons
 - Borrowpit Lagoon_L
 - Berms

TEMPORARY CLEAN CUTOFF DRAINAGE TO BE INSTALLED PRIOR TO EARTHWORKS TO ENSURE CLEAN / DIRTY WATER SEPERATION.

LINED CONCRETE / CEMENT WASHOUT PIT. COLLECTED WATER TO BE DISPOSED OF OFF-SITE.

T-11



CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 12				
PROJECT / FIGURE NO. M02232-01_TDNG_12				
DRAWN BY	SCALE	REVISION	DATE	
DH	1:2000	2	26/03/2026	

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PLANNING DESIGN



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NOTES:

GENERAL

1. Drawings are for planning and are not intended for construction and should not be used as such. For avoidance of doubt, surface water management design is intended to be further developed post-consent of the planning application.
2. All locations of suds features identified are approximate and to be refined on an observational basis dependant on local topography and track alignment / microcrosing.
3. Additional temporary drainage / mitigation will be provided during the construction phase on an observational basis.
4. All drainage management features shown should be read in conjunction with relevant typical detail drawings.

POLLUTION PREVENTION

5. Temporary or permanent drainage / silt management features including settlement features and drainage crossings should be installed prior to or in parallel with construction of new access roads / hardstanding to prevent the conveyance of silts to receiving watercourses.
6. Interim measures to be employed in all instances where work carried out is likely to cause adverse environmental impacts through increased silt loadings being generated during the construction phase.
7. Oil fuel should be stored within containment and cement should be mixed within compound / containment, tools washed in the same area and water recycled (in the cement mix).
8. Direct discharge of untreated track drainage to watercourses shall not be permitted.
9. DO NOT pump water direct to watercourses.
10. DO NOT strip vegetation from existing ditches unless absolutely necessary.
11. If water pollution is identified the following steps should 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 and Client/Developer should be notified immediately to ensure that measures can be implemented downstream to protect fish habitat and other sensitive areas.

TRACK / INFRASTRUCTURE DRAINAGE

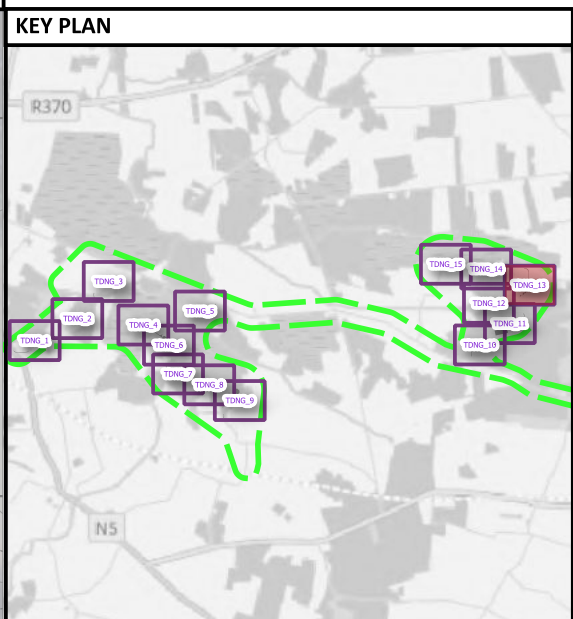
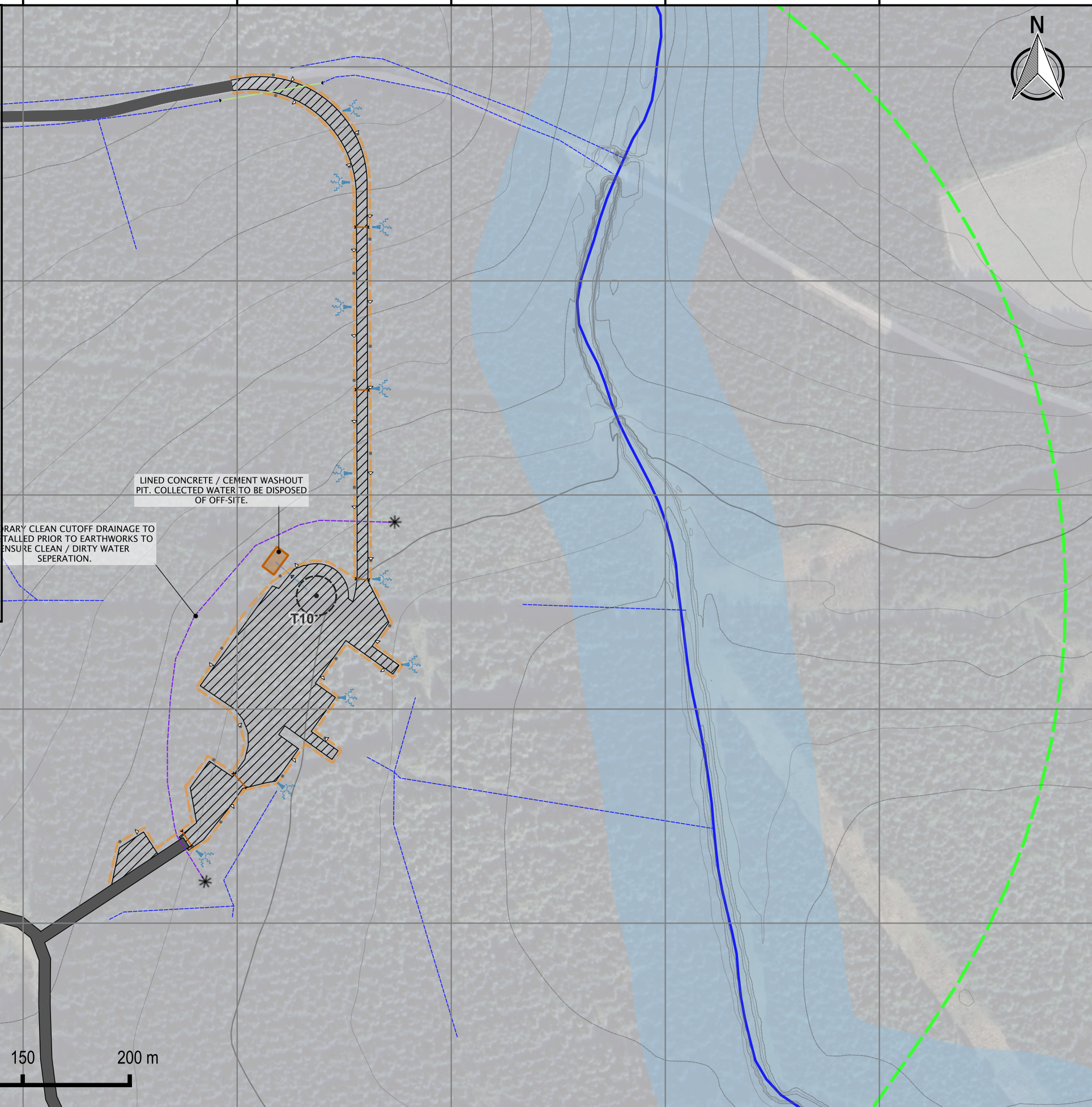
12. Temporary upslope cutoff / diversion drainage to be installed in advance of main earthworks in areas indicated in order to minimise surface water ingress to excavations
13. Settlement/attenuation ponds are retained following completion of construction activities.
14. Batters of swales to have dimensions as per separately issued typical detail drawing. Swale to be re-vegetated with local species.
15. Slopes of swales to be vegetated or protected from erosion until vegetation has been established. Stripped vegetative layer from excavations to be stored locally and used to line slopes and base of swale. Vegetative layer to be placed into swale after construction of the swale.
16. Clean stone check dams to be installed in all drainage channels in order to promote settlement of suspended solids and control flow rates. Check dams generally to be locally won well graded stone. Aggregate size for stone check dams to be typically 5-40mm clean stone. On steep sections small stone to be anchored through the placement of 100mm stone on the downhill face of the check dam
17. Swale breakouts to be installed at regular intervals (every c. 80m).

WATERCOURSE & TRACK DRAINAGE CROSSINGS

18. The minimum pipe diameter for any track drainage crossing shall be 450mm.
19. All HDPE pipes shall be twinwall type, BBA HAPAS approved.
20. All watercourse crossings to be installed min. 0.15m below existing bed level and to suit existing stream channel gradients.
21. Refer to Watercourse Crossing Schedule for min. soffit levels.

MAINTENANCE

22. The level of silt in runoff during construction is to be monitored visually and excessive silt levels in any area to be temporarily managed through use of silt fences / constructed settlement features.
23. Build-up of silt levels at check dams to be removed and disposed of. Silt levels at check dams to be visually inspected as part of an ongoing 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.



LEGEND

- EIAR Boundary
- Infrastructure**
 - Temporary Works Area
 - Existing Roads to be Upgraded
 - Proposed Floated Sections
- Hydrology Features & Constraints**
 - Water Feature Constraints**
 - Major Watercourses
 - Minor Watercourses
 - Other Ephemeral / Minor Drainage
 - Watercourse Buffers
- Temporary Drainage Features**
 - Clean Water Interceptor
 - Dirty Water Drainage
 - Temporary Piped Drainage
 - Drainage Breakout
 - Clean Drainage Pipes
 - Proposed Watercourse Crossing
 - Silt Fence
 - Settlement_Link
 - Settlement Basin
 - Borrowpit Grips
 - Borrowpit_Polygons
 - Borrowpit Lagoon_L
 - Berms

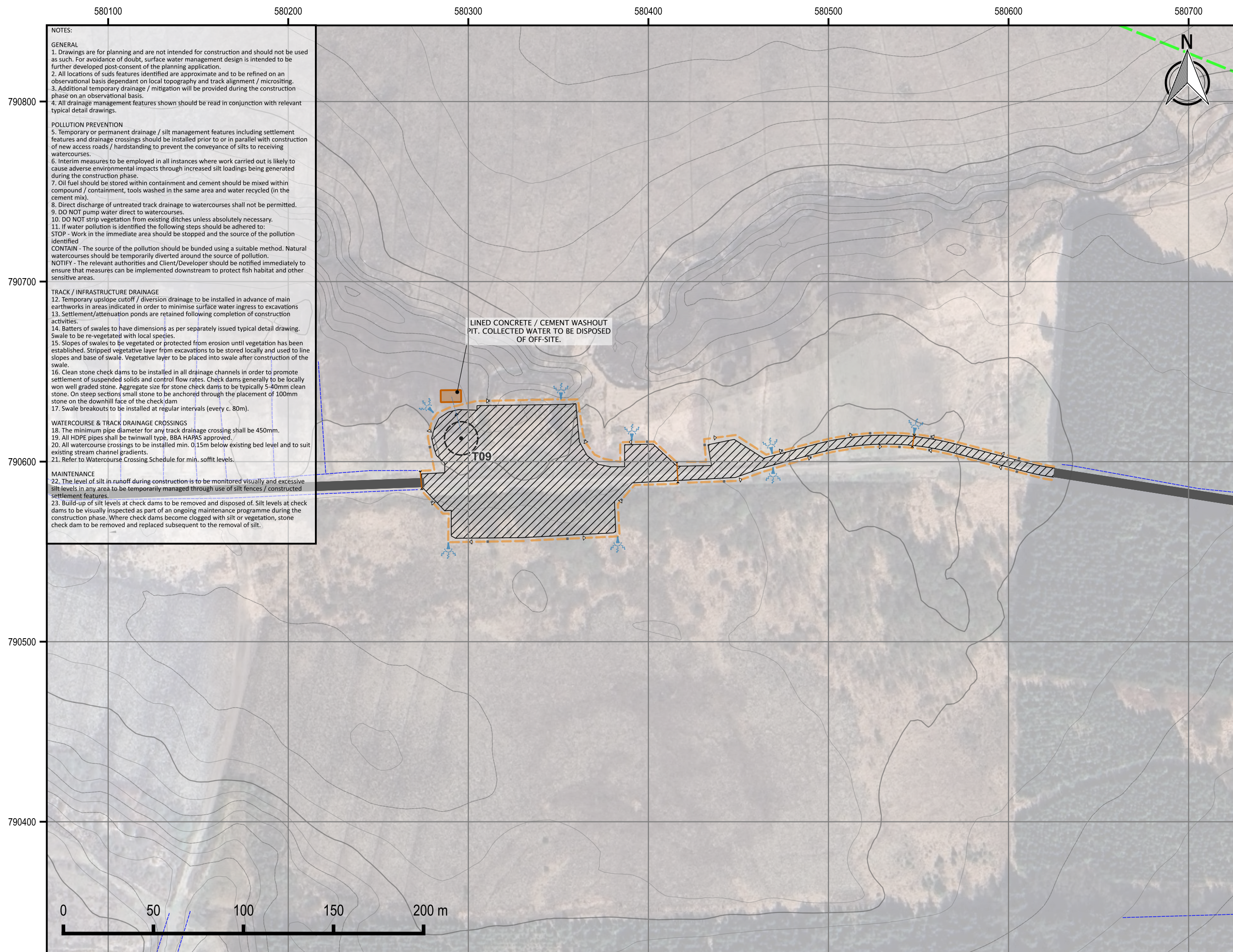
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 13				
PROJECT / FIGURE NO. M02232-01_TDNG_13				
DRAWN BY	SCALE	REVISION	DATE	
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PLANNING DESIGN



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TRACK / INFRASTRUCTURE DRAINAGE

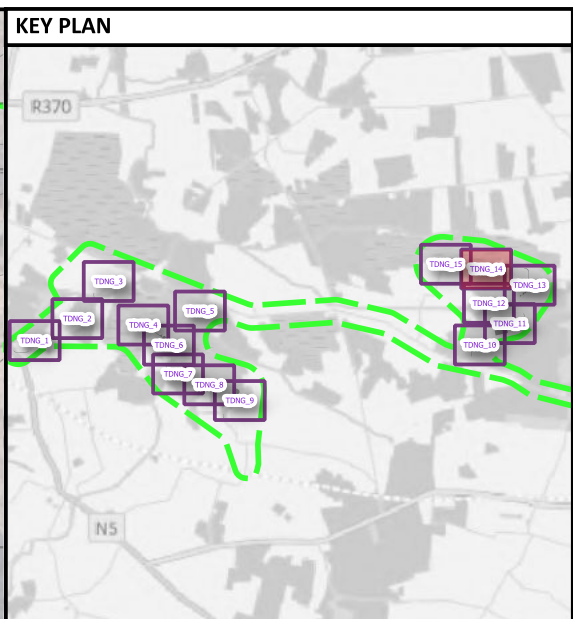
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LEGEND

- EIAR Boundary

Infrastructure

- Temporary Works Area
- Existing Roads to be Upgraded
- Proposed Floated Sections

Hydrology Features & Constraints

Water Feature Constraints

- Major Watercourses
- Minor Watercourses
- Other Ephemeral / Minor Drainage
- Watercourse Buffers

Temporary Drainage Features

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- Borrowpit Lagoon_L
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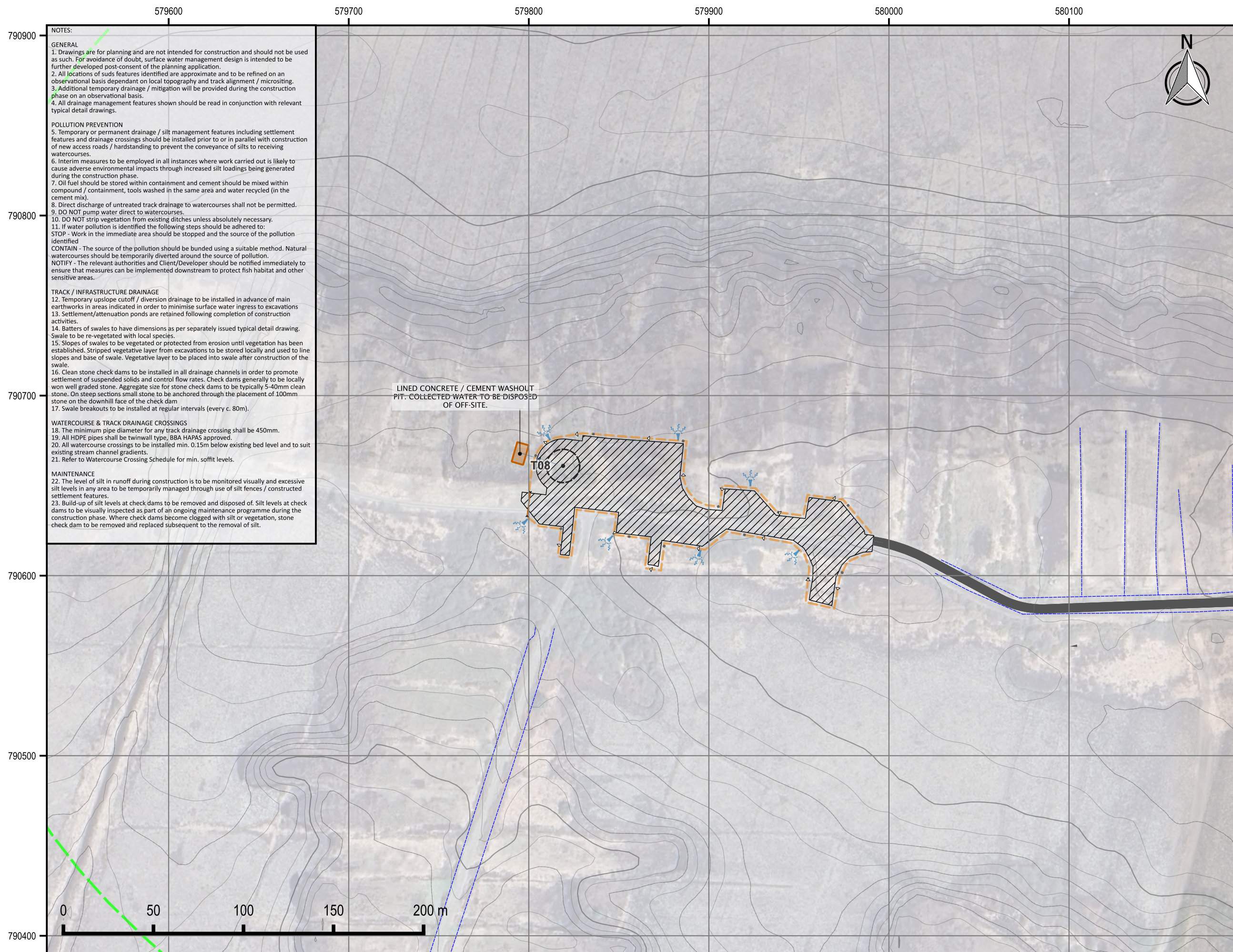
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 14				
PROJECT / FIGURE NO. M02232-01_TDNG_14				
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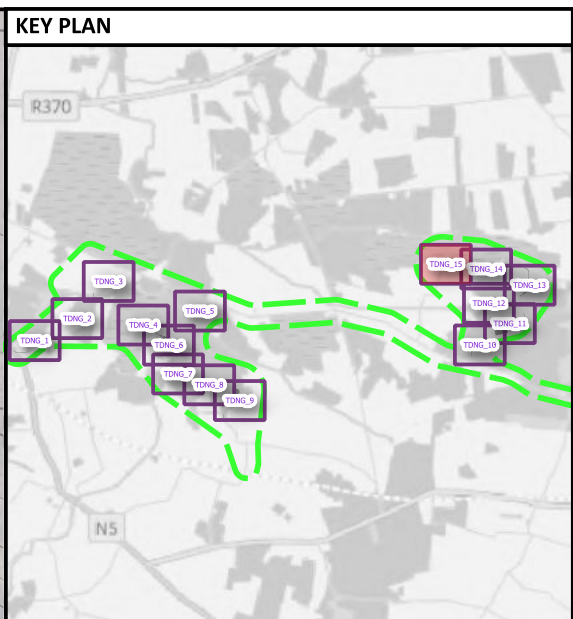
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CARRIGEEN RENEWABLE ENERGY DEVELOPMENT - TEMPORARY DRAINAGE				
DESCRIPTION LAYOUT SHEET 15				
PROJECT / FIGURE NO. M02232-01_TDNG_15				
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