Shannon Technology and Energy Park

Environmental Impact Assessment Report

VOLUME 3 | Figures

Delivering a better world

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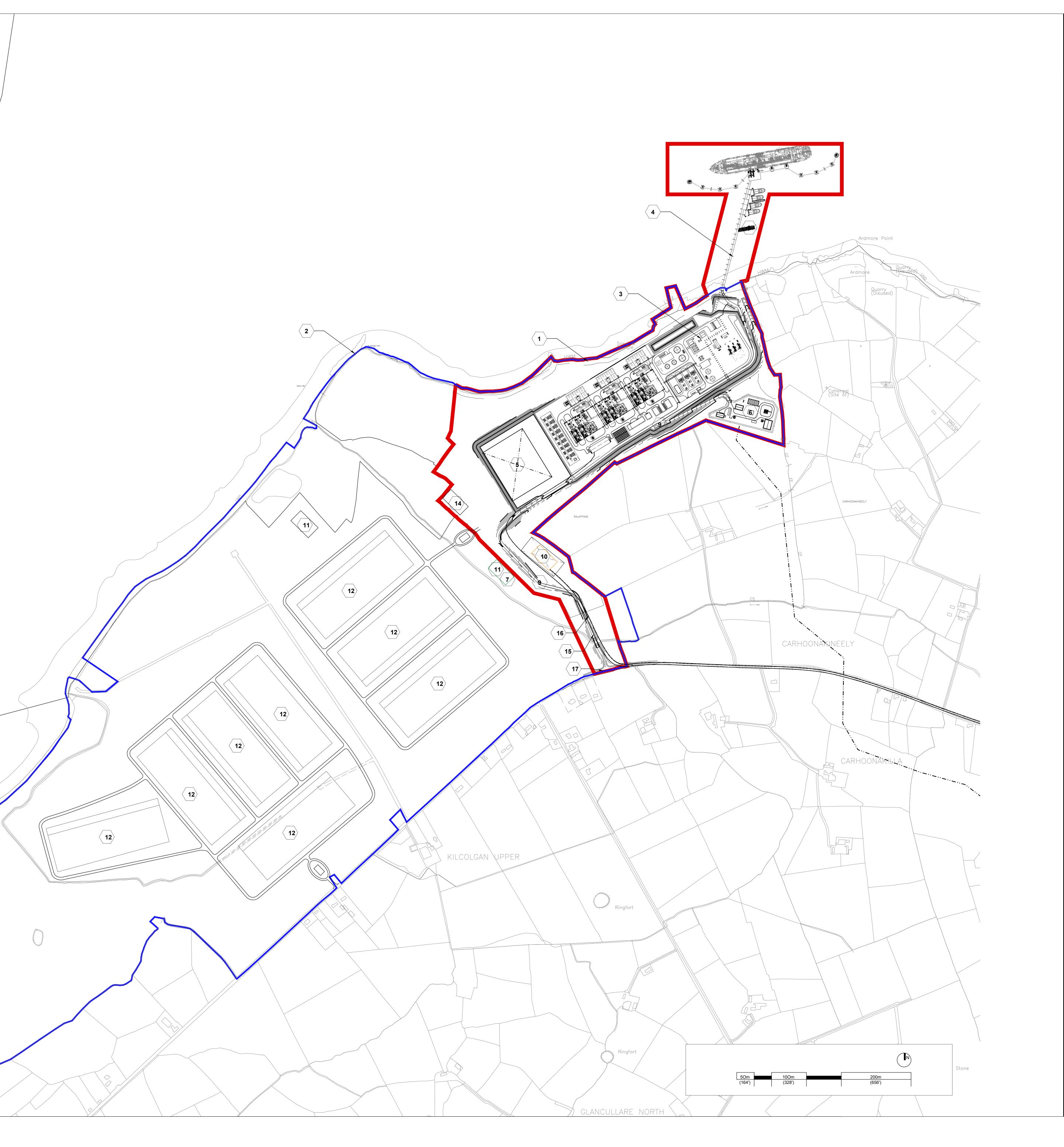
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-EC	GEND
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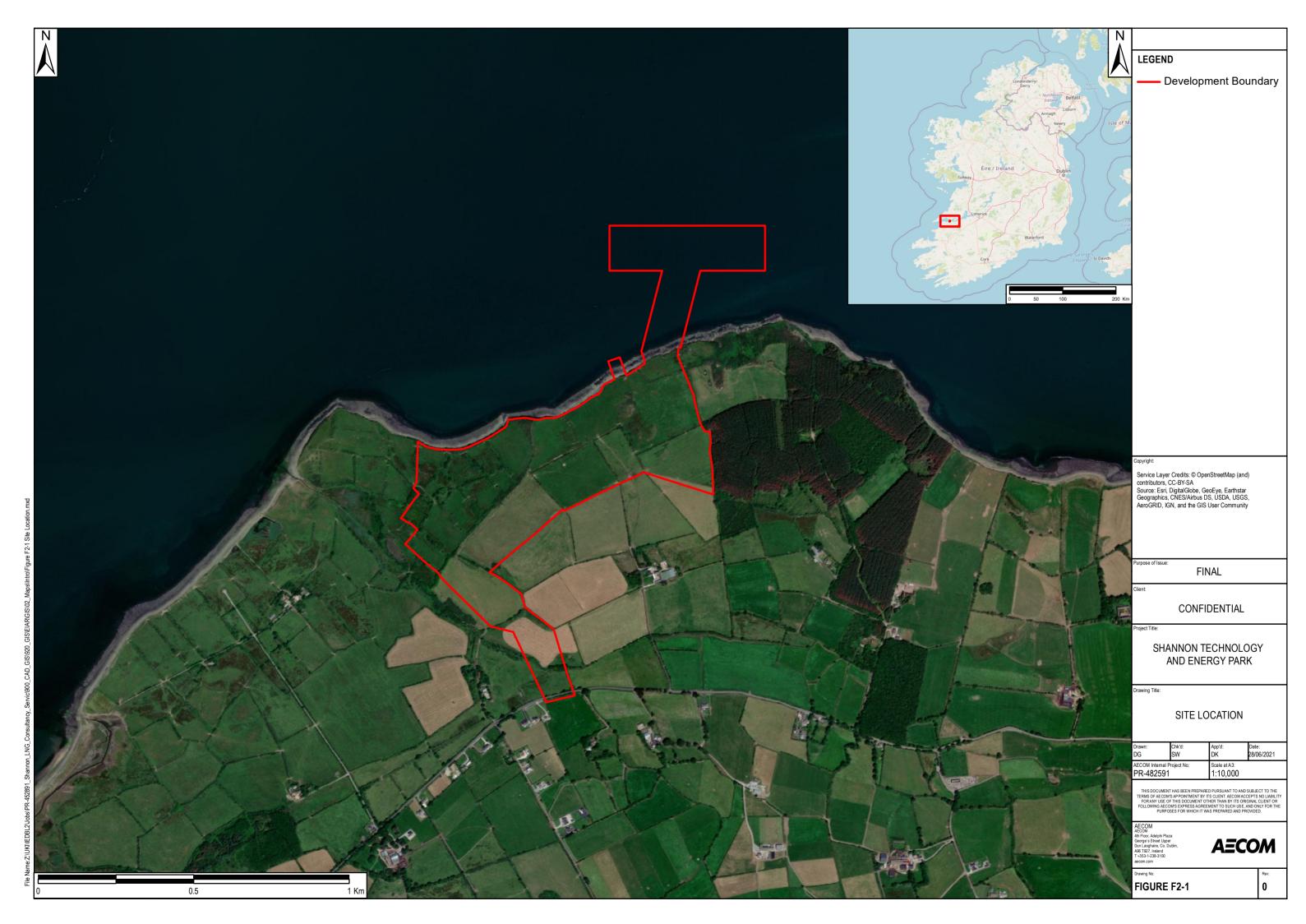
DWG. TITLE CAMPUS SITE PLAN

Figure F1-1

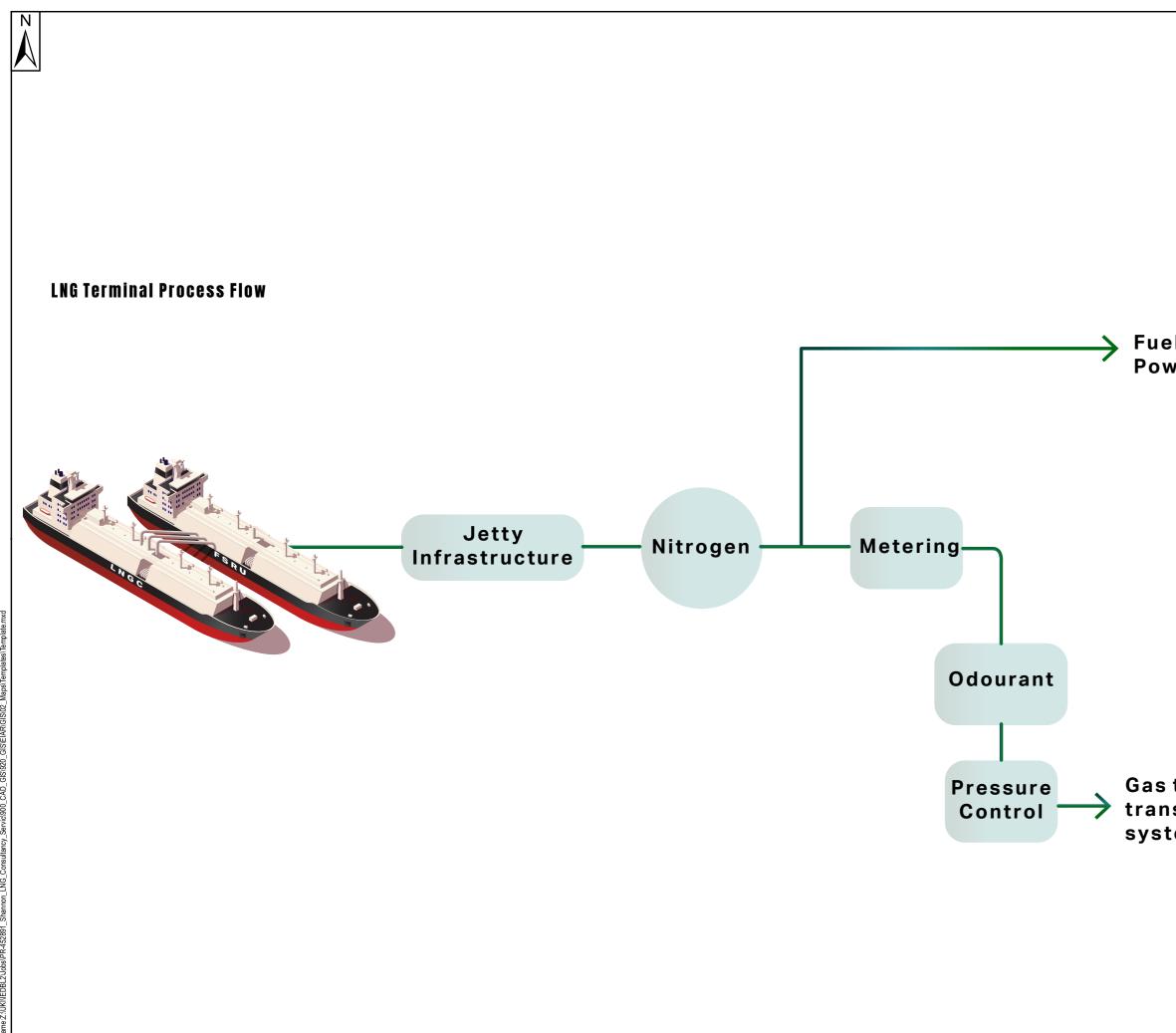
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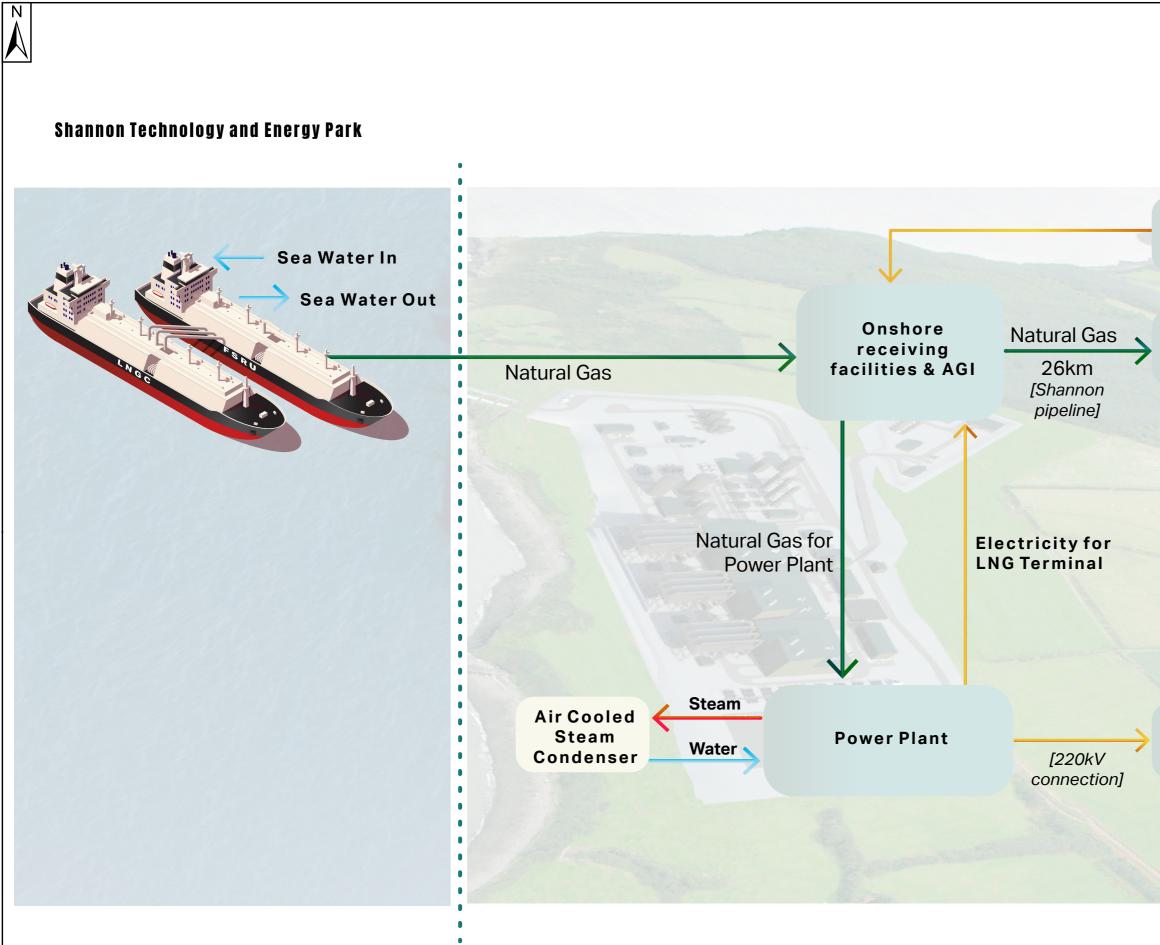
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	GENERATION PROCESS FLOW	
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LEGEND

1	LNG SITE BOUNDARY (RED LINE)
2	SITE BOUNDARY (BLUE LINE)
3	POWER PLANT
4	JETTY
5	LAYDOWN AREA
6	LNG PROCESSING/METERING
7	STORAGE AND REGASIFICATION SHIP
8	4.0 M INNER ELECTRIC WIRE FENCE
9	2.9 M OUTER FENCE
10	RETAIN EXISTING VEGETATION +/- 5-10M EITHER SIDE OF THE STREAM

NATIVE SEEDING AREA PRESERVED AREA

GRAVEL

WOODLAND MIX (SHRUBS)

WOODLAND MIX (TREES)

TREE

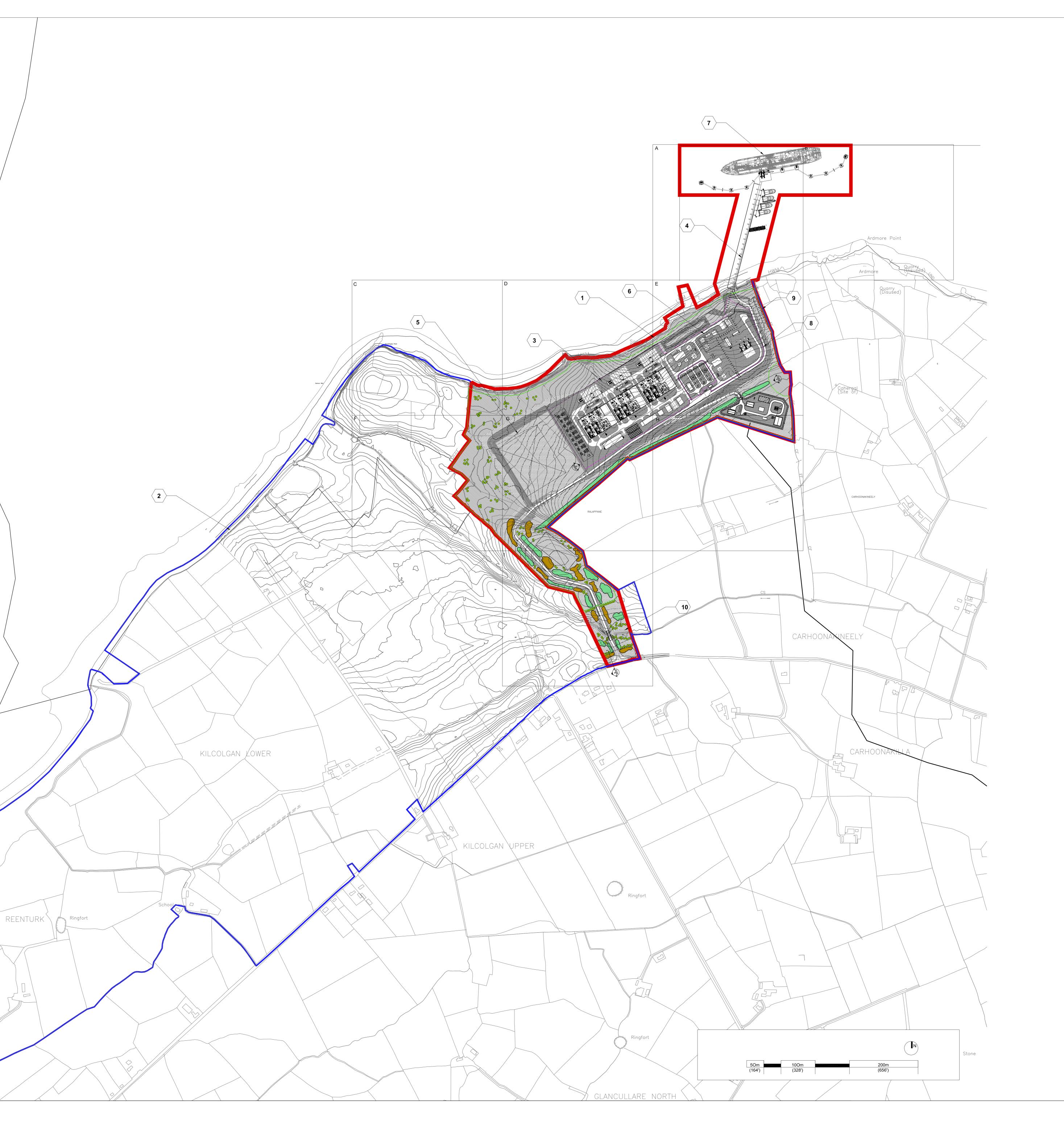
Components of Woodland Planting Mix 15% Pinus sylvestris (Scots Pine) 10% Salix caprea (Willow) 10% Quercus robur (Common Oak) 25% Alwa glutinooo (Alder)

- 25% Alnus glutinosa (Alder) 5% Sorbus aucuparia (Rowan)
- 15% Malus sylvestris (Crabapple) 20% Quercus robur (Pedunculate Oak) Components of Woodland Edge Shrub Planting Mix 30% Corylus avellana (Hazel)
- 30% Crataegus monogyna (Haxthorn) 15% Prunus spinosa (Blackthorn) 15% Sambucus nigra (Elder) 10% Ilex aquifolium (Holly)
- Specimen trees (Road Edge and Administration Areas) 40% Salix Caprea (Willow) 30% Prunus avium (Wild Cherry) 10% Sorbus aucuparia (Rowan)
- 10% Sorbus aria (Whitebeam) 10% Betula pendula (Silver Birch)

Native Seed Mix Irish wildflower turf mixture 50% supplied with 50% grass seed (no ryegrass) to produce a low maintenance wildflower grass. Will be reviewed for applicability to existing site soils

5

Gravel 3/8" -3/4" crushed stone for 8" topical layer





No.	Description	Date

ISSUED FOR PLANNING	08/2021
PROJECT ISSUANCES	

PROJECT:

SHANNON TECHNOLOGY AND ENERGY PARK (STEP)

SHANNON LNG LIMITED

DWG. TITLE SITE LAYOUT **PLAN OVERALL**

Figure 2	2-4a
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SCALE:	1:4000

SCALE: Scale as Noted

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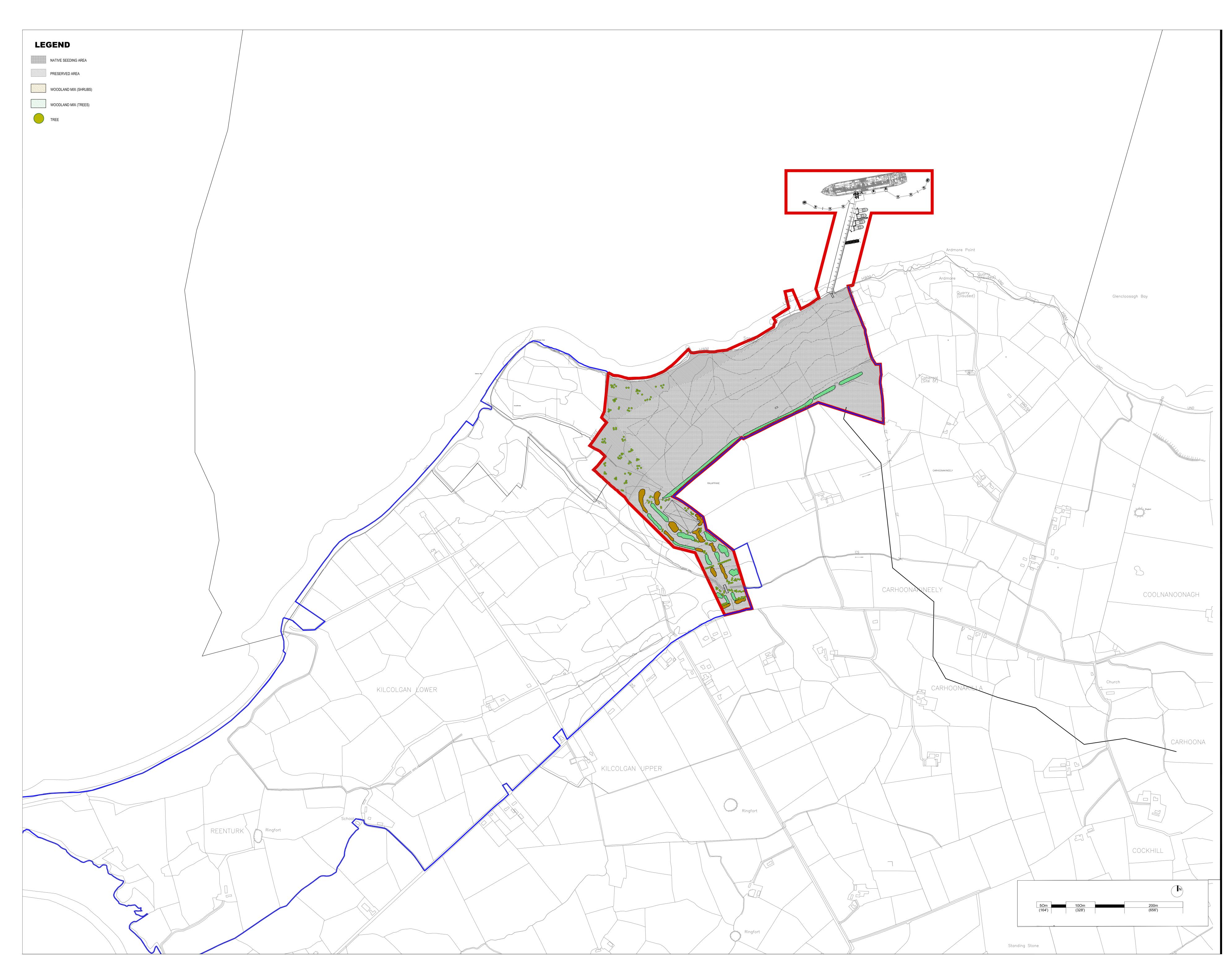


Figure	2-4b	
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DWG. TITLE LANDSCAPE REINSTATEMENT PLAN

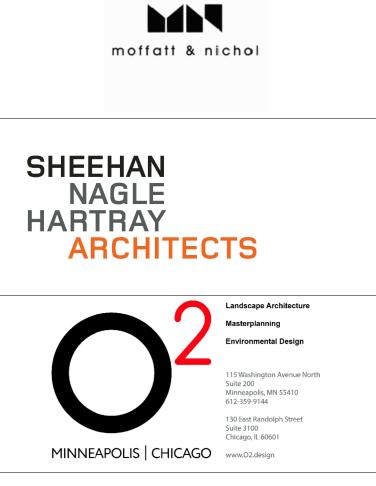
SHANNON LNG LIMITED

PROJECT: SHANNON TECHNOLOGY AND ENERGY PARK (STEP)

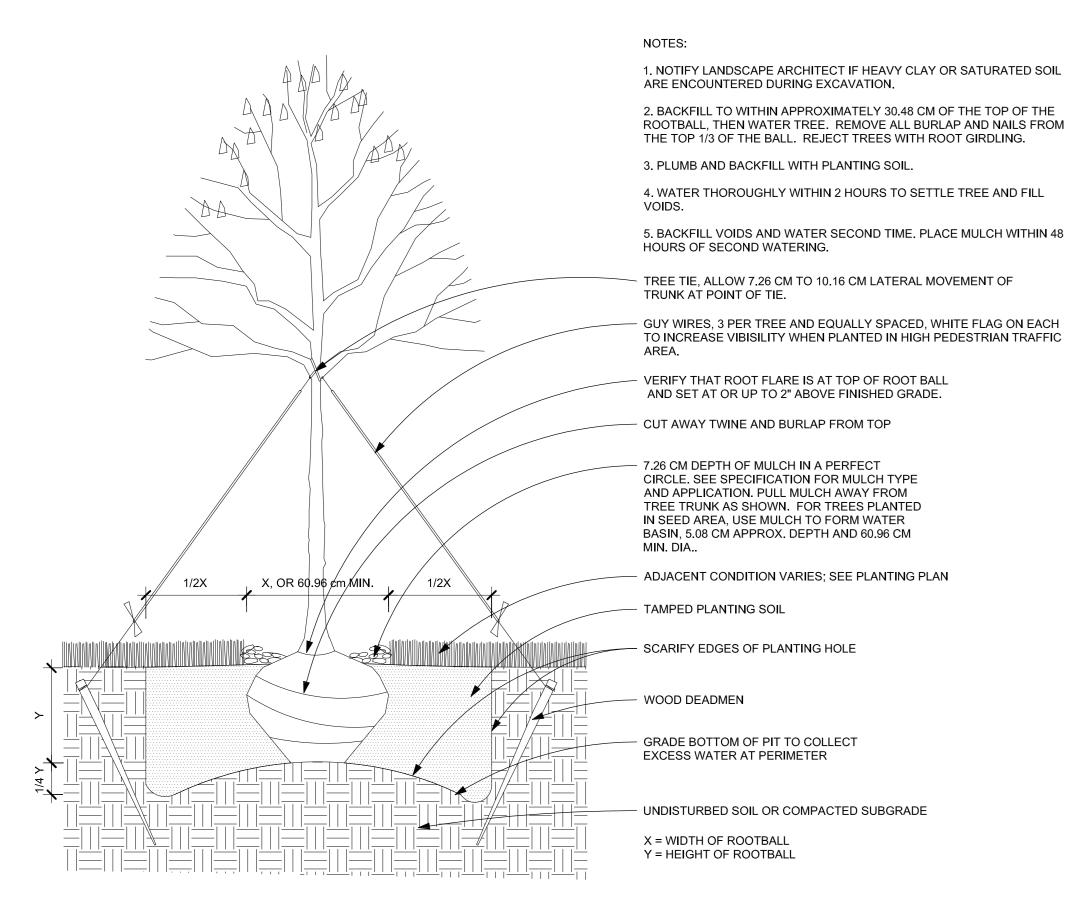
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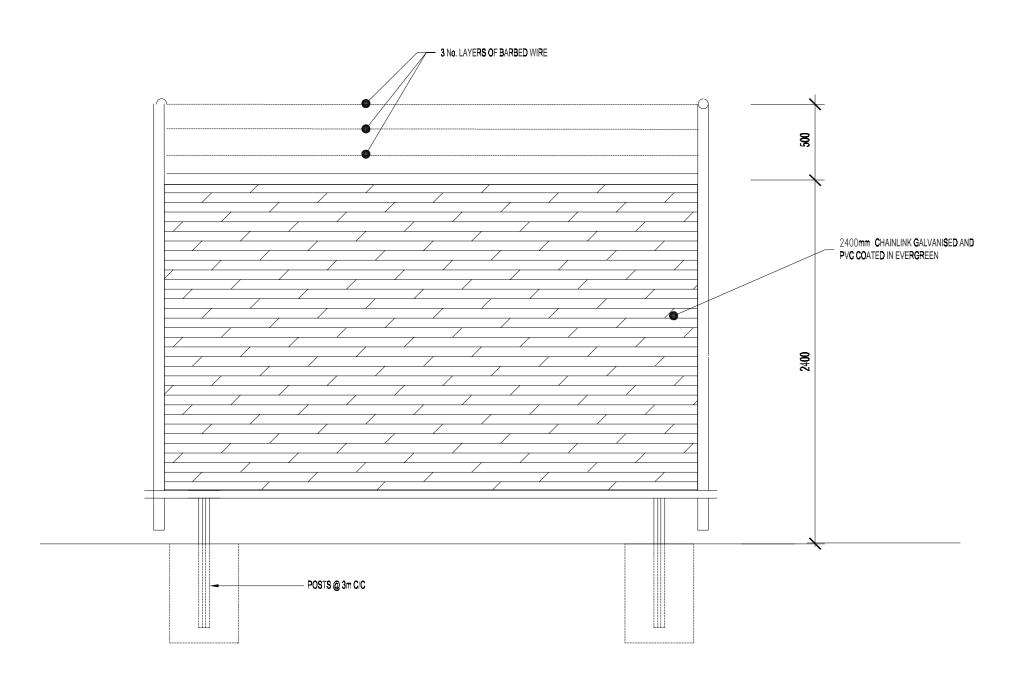
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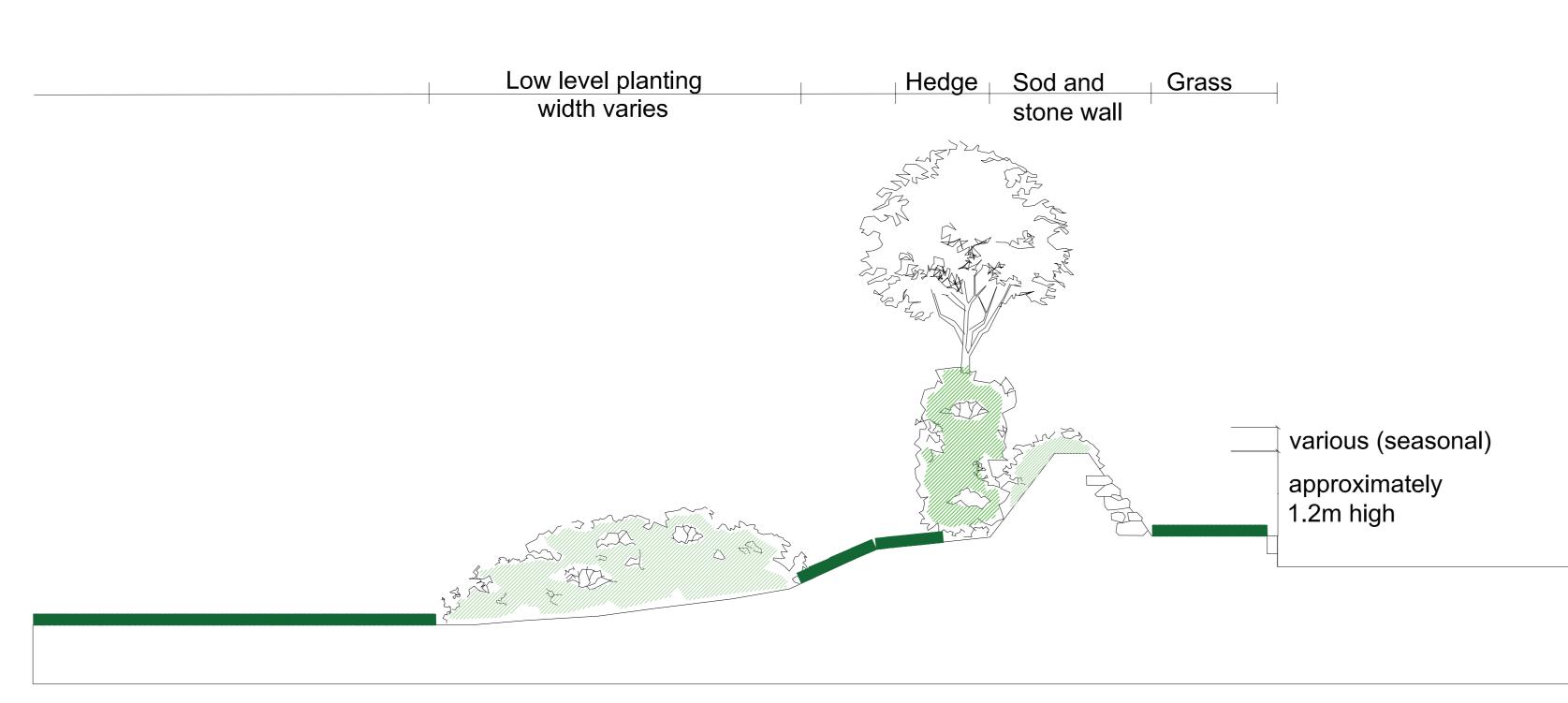




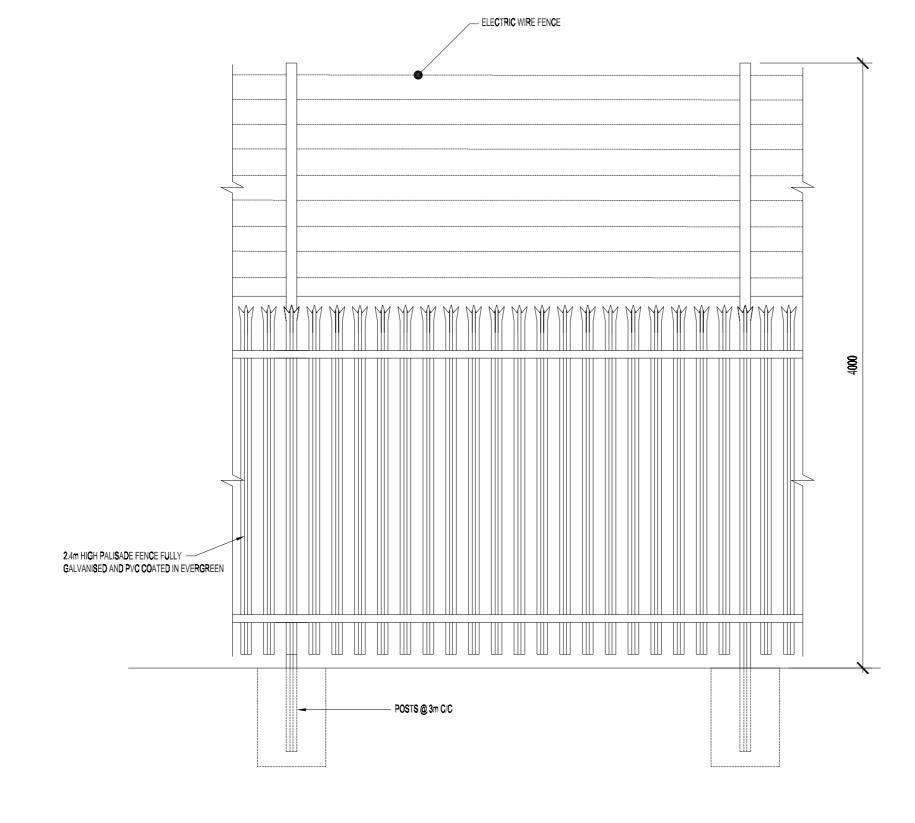
1 DECIDUOUS TREE PLANTING DETAIL 1:15



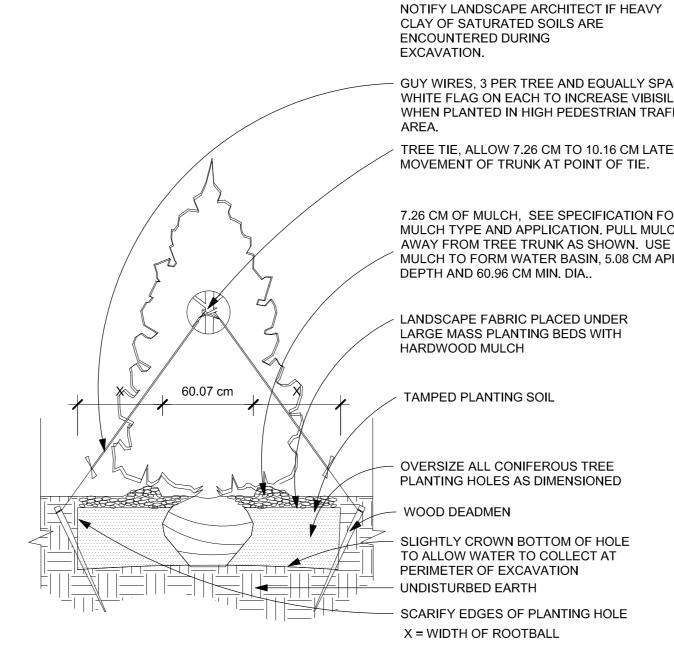
4 PROPOSED 2.9M HIGH CHAINLINK FENCE 1:25

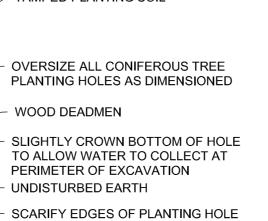






2 CONIFER PLANTING DETAIL 1:25



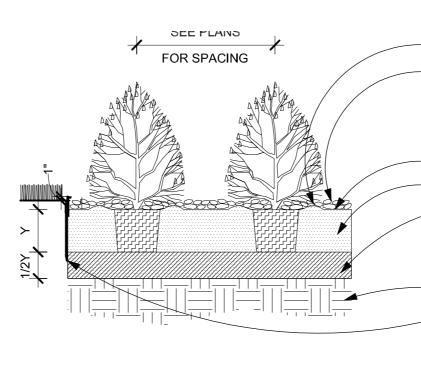


ZAMPED PLANTING SOIL

/ LANDSCAPE FABRIC PLACED UNDER LARGE MASS PLANTING BEDS WITH HARDWOOD MULCH

7.26 CM OF MULCH, SEE SPECIFICATION FOR MULCH TYPE AND APPLICATION. PULL MULCH AWAY FROM TREE TRUNK AS SHOWN. USE MULCH TO FORM WATER BASIN, 5.08 CM APPROX. DEPTH AND 60.96 CM MIN. DIA..

GUY WIRES, 3 PER TREE AND EQUALLY SPACED, WHITE FLAG ON EACH TO INCREASE VIBISILITY WHEN PLANTED IN HIGH PEDESTRIAN TRAFFIC AREA. TREE TIE, ALLOW 7.26 CM TO 10.16 CM LATERAL MOVEMENT OF TRUNK AT POINT OF TIE.

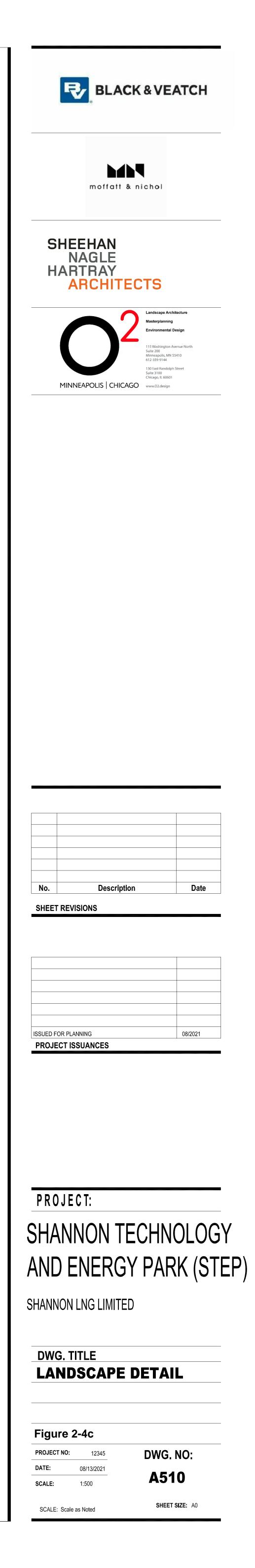


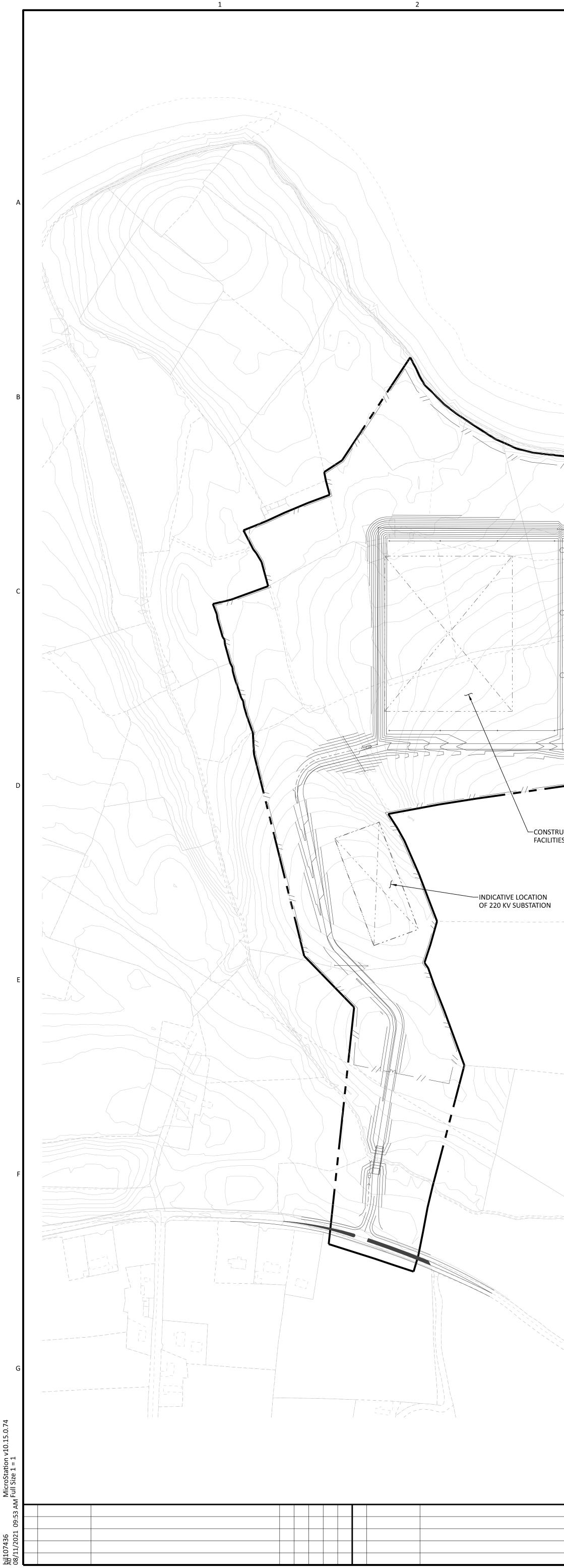
3 SHRUB PLANTING DETAIL 1:25

- CREATE A SAUCER W/ TOPSOIL 7.26 CM DEPTH OF MULCH OVER LANDSCAPE FABRIC. FOR INDIVIDUAL SPECIMENS (I.E. NOT IN COUNTINUOUS PLANT BEDS AS SHOWN) MULCH SHOULD EXTEND 15.24 CM MIN. BEYOND EDGE OF ROOTBALL. - LANDSCAPE FABRIC PLANTING SOIL

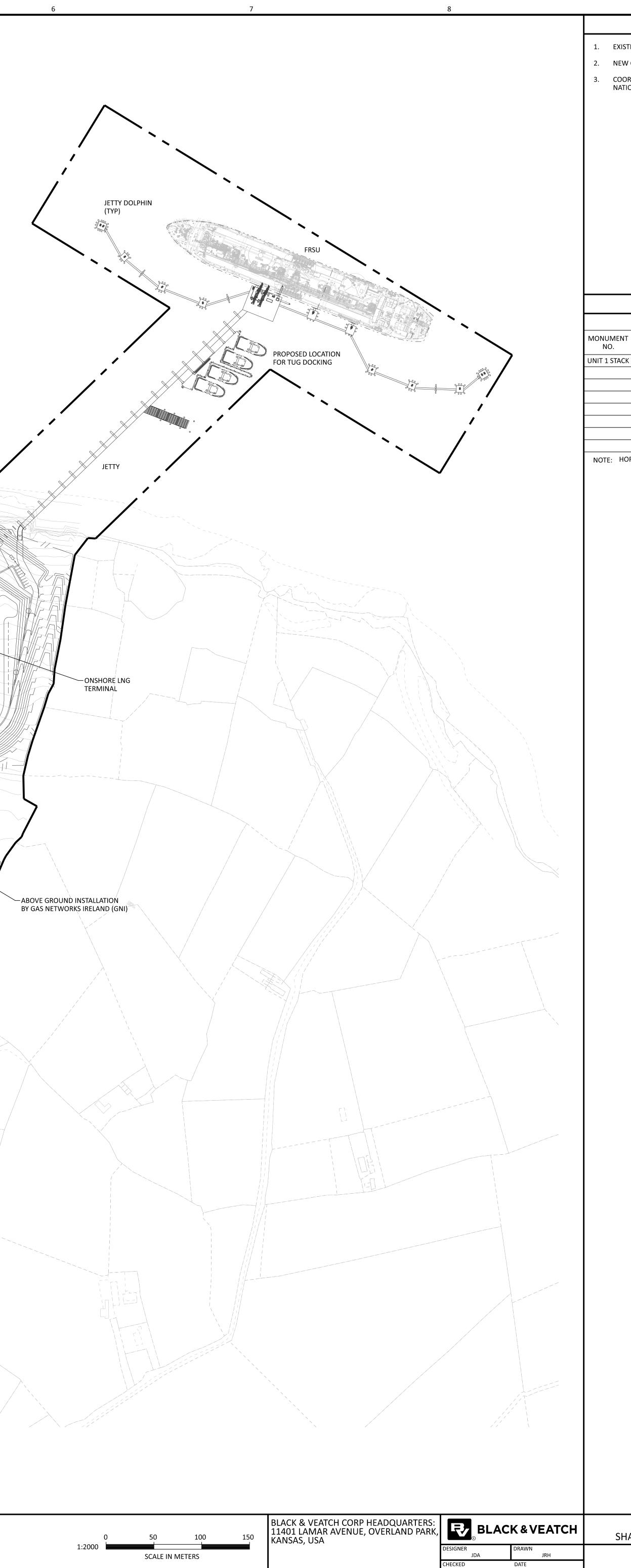
INSTALL LIFT OF PLANTING SOIL. WORK INTO EXISTING SUBGRADE. TAMP SOIL TO PREVENT SETTLEMENT

- SCARIFYSIDES AND EDGES OF PLANTING HOLE LANDSCAPE EDGING IF IN A CONTINUOUS BED. SEE SPECIFICATIONS Y = HEIGHT OF ROOTBALL





		REF. PL08.GA0003)		
ITIES AREA		SHANNON PIPELINE (PREVIOUSLY CONSENTED UNDER		
TRUCTION				
BATTERY ENERGY STORAGE SYSTEM (BESS) AREA	UNIT 1 STACK PLANT GRID <u>N 5000</u> E 5000 IRISH NATIONAL GRID <u>N 148665.605</u> E 102453.451 POWER PLANT (CCGT)	AXIS OF ROTATION	STORMWAT OUTFALL	ER



9	10
	NOTES
EXISTING CONTOURS AND FEATURES ARE DISPLAYED AS PR	ROVIDED TO BLACK & VEATCH.
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COORDINATES SHOWN ARE BASED ON A PLANT GRID SYST NATIONAL GRID.	EM. SEE THIS DRAWING FOR CONTROL POINT AND ROTATION TO THE IRISH

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NOTE: HORIZONTAL CONTROL IS BASED ON THE IRISH NATIONAL GRID COORDINATE SYSTEM.

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OVERALL SITE ARRANGEMENT	CODE	Figure F2-5a	
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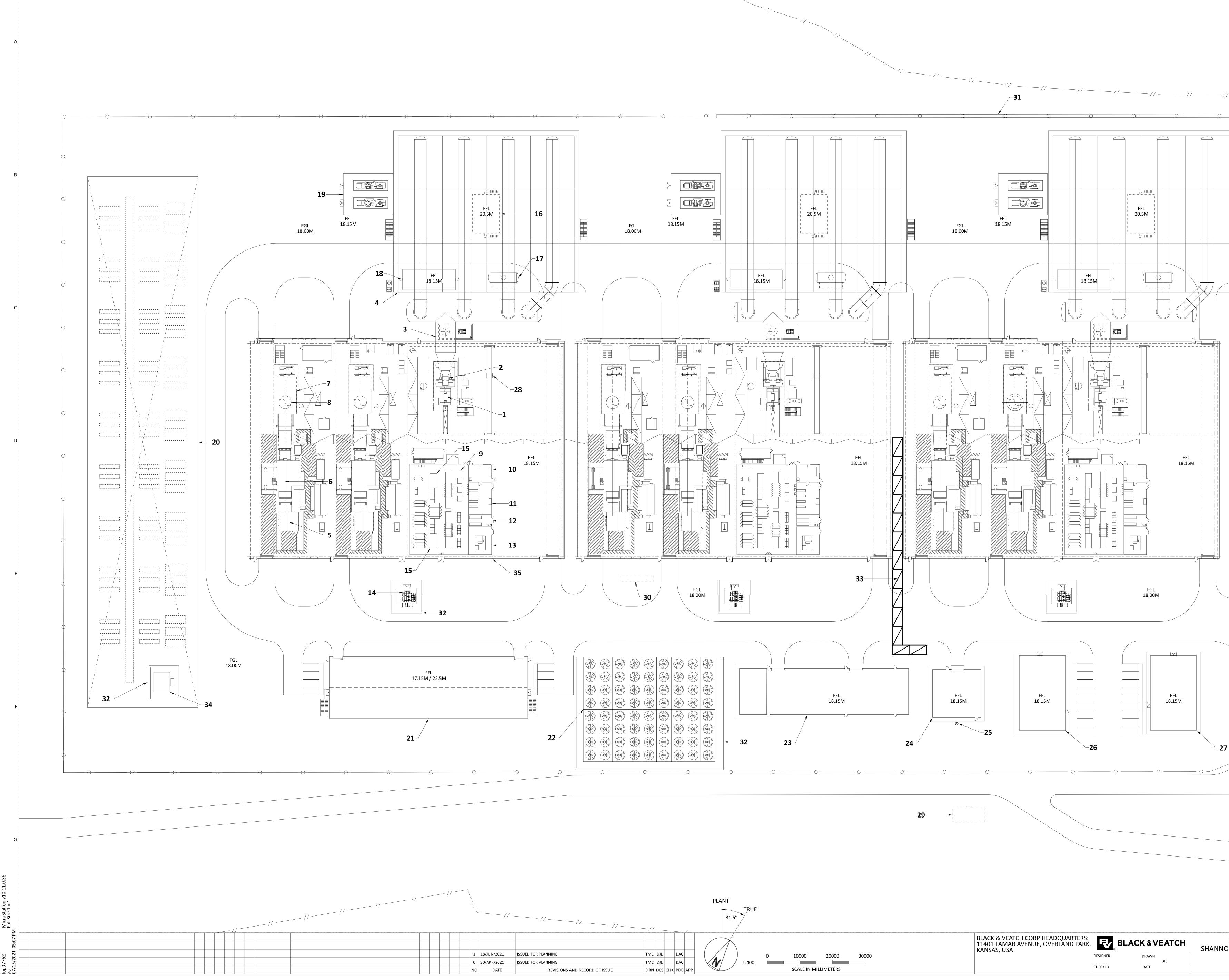


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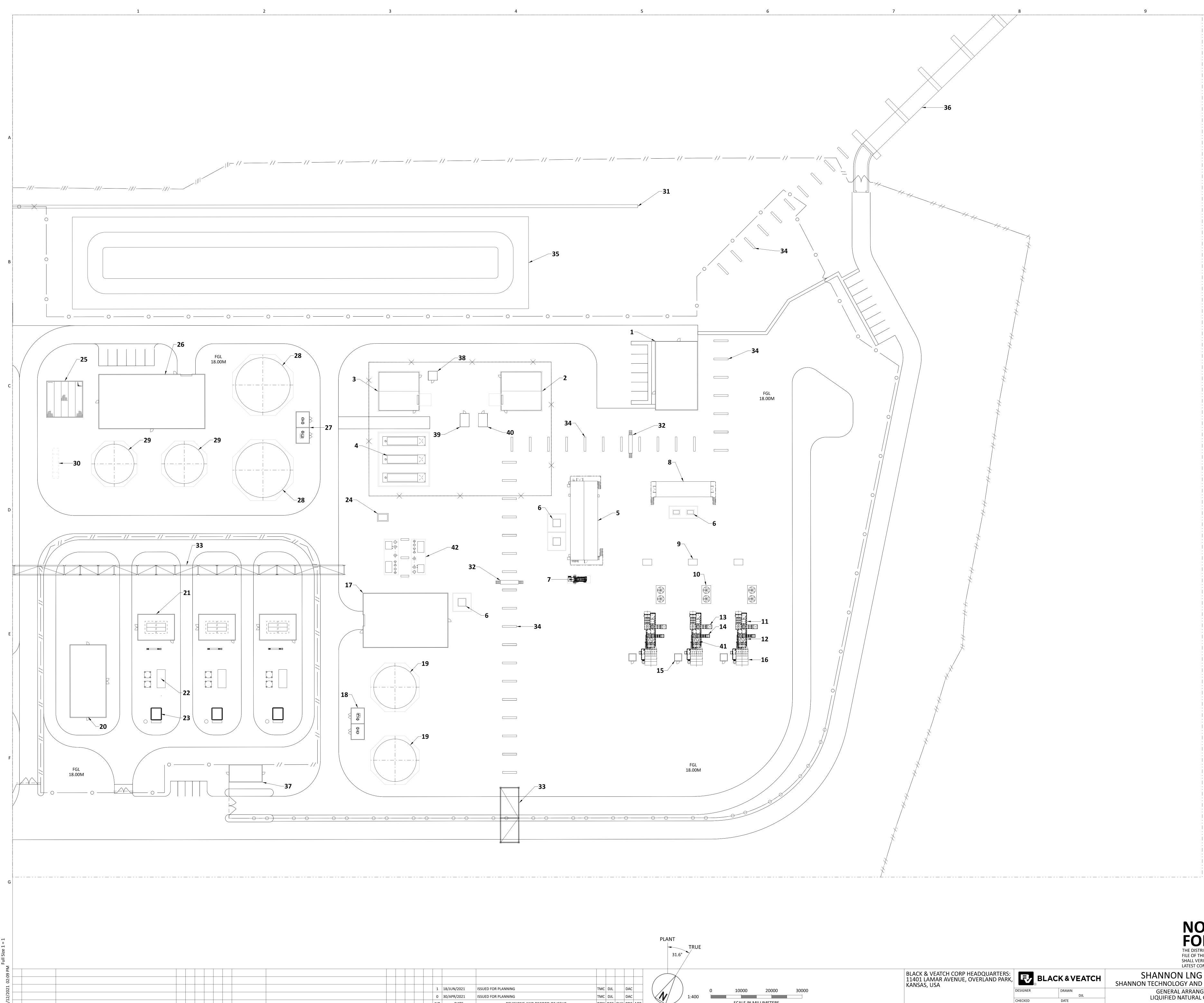


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9	ITEM EQUIPMENT IDENTICATION 1 STEAM TURBINE GENERATOR 2 STEAM TURBINE EXHAUST DUCT 4 AIR COOLED CONDENSER 5 COMBUSTION TURBINE GENERATOR 6 COMBUSTION TURBINE 7 HEAT RECOVERY STEAM GENERATOR 8 HRSG EXHAUST STACK 9 ELECTRICAL EQUIPMENT ROOM 10 AUXILIARY CONTROL ROOM 11 DCS ROOM 12 BATTERIES ROOM 13 STANDBY DIESEL GENERATOR ROOM 14 GENERATOR STEP-UP TRANSFORMER 15 AUXILIARY TRANSFORMER 16 ACC ELECTRICAL EQUIPMENT POWER DISTRIBUTION CENTER 17 CONDENSATE COLLECTION TANK 18 CONDENSATE COLLECTION TANK 18 CONDENSATE POLISHING EQUIPMENT ENCLOSURE 19 ACC AIR EXTRACTION EQUIPMENT ENCLOSURE 20 BATTERY ENERGY STORAGE SYSTEM (BESS) EQUIPMENT AREA 21 ELECTRICAL (GIS) SUBSTATION BUILDING 22 AIR COOLED HEAT EXCHANGERS 23 WORKSHOP/STORES/CANTEEN	
	23WORKSHOP/STORES/CANTEEN24AUXILIARY BOILER BUILDING25AUXILIARY BOILER EXHAUST STACK26CENTRAL CONTROL/OPERATIONS BUILDING27ADMINISTRATION BUILDING28OVERHEAD CRANE29INDICATIVE ELECTRICAL GRID INTERFACE BUILDING30OIL/WATER SEPARATOR31RETAINING WALL32SOUND RETENTION WALL33UTILITY RACK34BESS STEP-UP TRANSFORMER35TURBINE HALL (TYP OF 3)	B
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-27		F
FOR	 NOTES. THE FINISHED SURFACE LEVEL (FSL) OR PLATFORM FOR THE POWER PLANT, IS +18M ABOVE ORDINANCE DATUM (AOD). THE PROPOSED FINISHED GRADE LEVEL (FGL) ARE IDENTIFIED THRU OUT THE PERIMETER OF THE POWER BLOCK AREA. THE PROPOSED FINISHED FLOOR LEVEL (FFL) ARE IDENTIFIED WITHIN THE BUILDING STRUCTURES. SEE DRAWING 198291-1GSU-G1003 FOR SITE ARRANREMENT. 	G
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GENERAL ARRANGEMENT COMBINED CYCLE POWER PLANT

Figure F2-5c AREA



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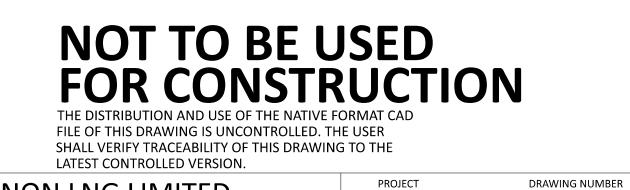
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NO. 1	EQUIPMENT IDENTICATION
1	
	MAIN CONTROL BUILDING
2	FUEL GAS METERING ENCLOSURE
3	FUEL GAS REGULATING ENCLOSURE
4	FUEL GAS HEATER - WATER BATH TYPE (TYP OF 3)
5	ELECTRICAL SWITCHGEAR ENCLOSURE (MAIN)
6	SUS TRANSFORMER
7	BLACK START DIESEL GENERATOR
8	ELECTRICAL SWITCHGEAR ENCLOSURE (SECONDARY)
9	GENERATOR BREAKER (TYP OF 3)
10	AIR COOLED HEAT EXCHANGER (TYP OF 3)
11	GAS TURBINE GENERATOR
12	GAS TURBINE
13	GENERATOR VENT AIR EXHAUST SYSTEM
14	GAS TURBINE VENT AIR EXHAUST SYSTEM
15	CEMS ENCLOSURE (TYP OF 3)
16	INLET AIR FILTER
17	WORKSHOP/WAREHOUSE BUILDING
18	FIREWATER PUMPS ENCLOSURE
19	FIREWATER STORAGE TANK
20	NITROGEN GENERATION PACKAGE BUILDING
21	NITROGEN COMPRESSOR BUILDING (TYP OF 3)
22	NITROGEN PURIFICATION SKID/ABSORBERS (TYP OF 3)
23	NITROGEN EVAPORATOR/COLD BOX (TYP OF 3)
24	WASTEWATER TREATMENT EQUIPMENT PACKAGE
25	EFFLUENT SUMP - CCPP
26	WATER TREATMENT BUILDING - CCPP
27	FIRE WATER PUMPS ENCLOSURE - CCPP
28	RAW/SERVICE/FIRE WATER STORAGE TANK - CCPP
29	DEMINERALIZED WATER STORAGE TANK - CCPP
30	OIL/WATER SEPARATOR
31	RETAINING WALL
32	CROSSOVER PLATFORM
33	UTILITY RACK
34	UTILITY SLEEPER
35	FIRE WATER RETENTION POND
36	JETTY
37	SECURITY BUILDING
38	KIOSK ENCLOSURE - METERING AND REGULATING AREA
39	ANALYZER ENCLOSURE - METERING AND REGULATING AREA
40	INSTRUMENT ENCLOSURE - METERING AND REGULATING AREA
41 42	GAS TURBINE EXHAUST STACK INSTRUMENT AIR PACKAGE

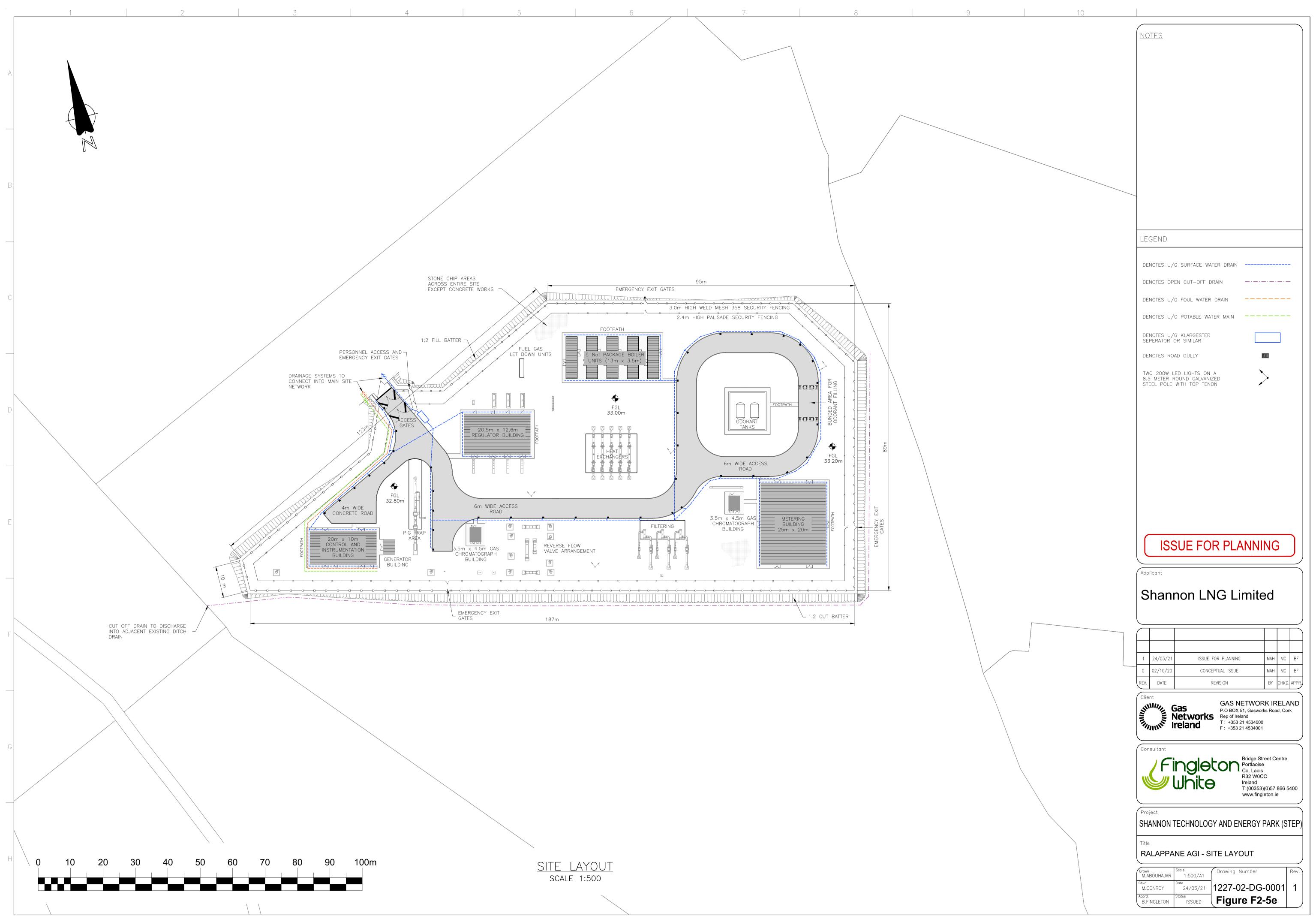
*CCPP - INDICATES EQUIPMENT THAT IS PERTAINING TO THE COMBINED CYCLE POWER PLANT

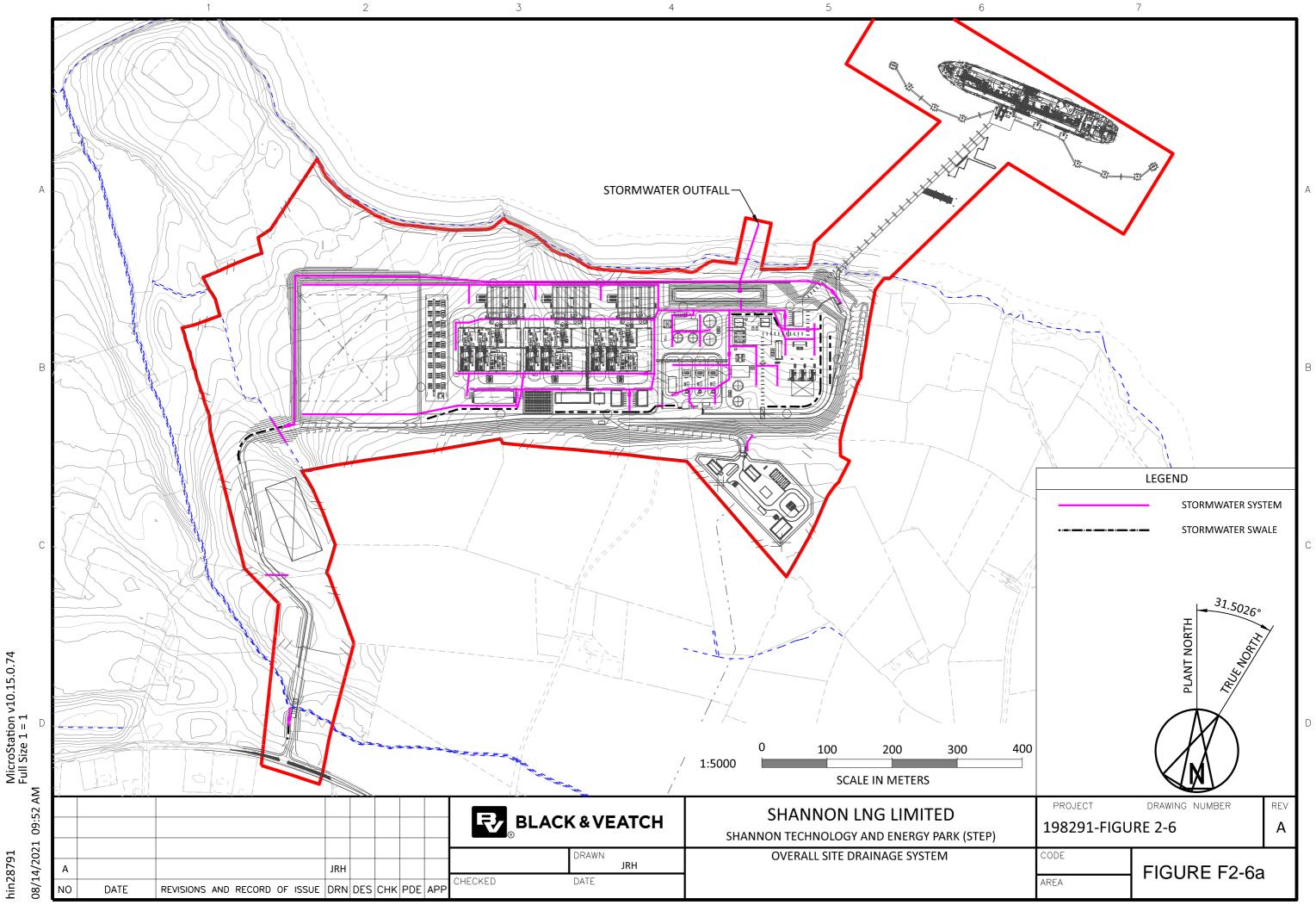
NOTES. 1.THE FINISHED SURFACE LEVEL (FSL) OR PLATFORM FOR THE POWER PLANT, IS +18M ABOVE ORDINANCE DATUM (AOD).



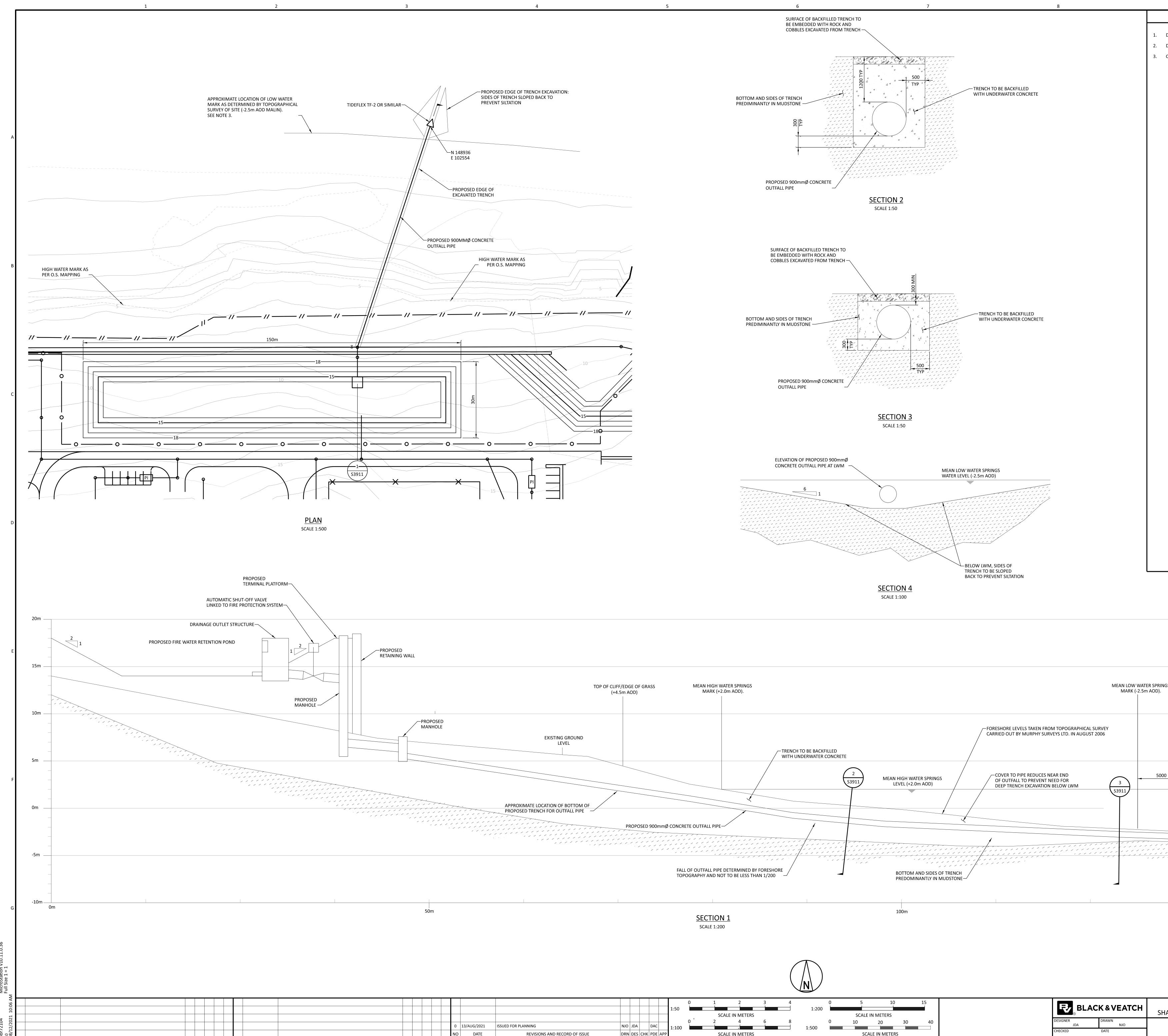
SHANNON LNG LIMITED HANNON TECHNOLOGY AND ENERGY PARK (STEP) GENERAL ARRANGEMENT LIQUIFIED NATURAL GAS AREA

198291-1GSU-G2002 CODE Figure F2-5d AREA





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	SCALE 1:200

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 											0 ×	2	4	6
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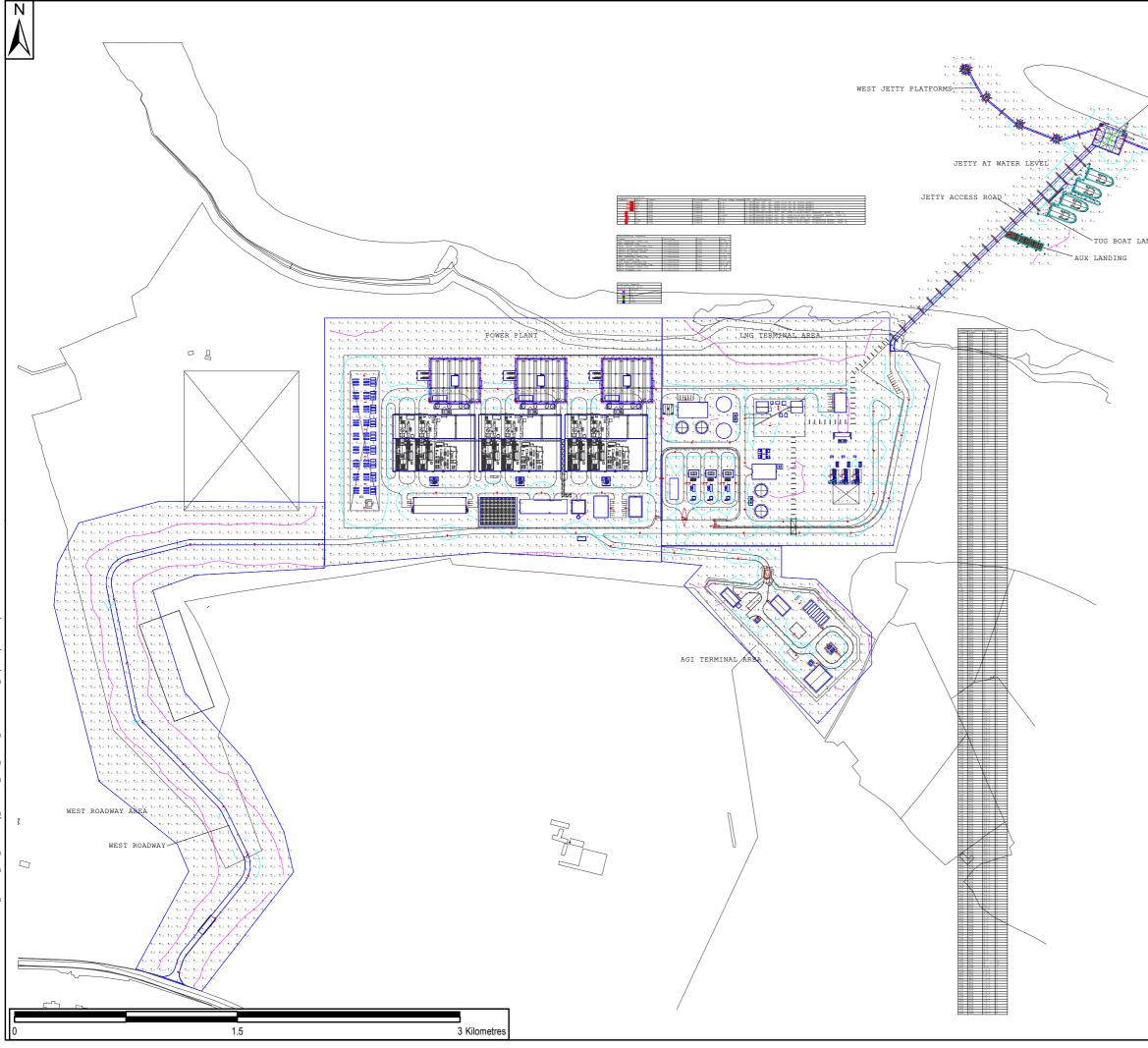
MEAN LOW WATER SPRINGS \$2011 LEVELS BELOW L.W.M. TAKEN FROM BATHYMETRIC SURVEY CARRIED OUT BY IRISH HYDRODATA LTD. IN AUGUST 2006-MEAN LOW WATER SPRINGS WATER LEVEL (-2.5m AOD) ----1111111111 TIDEFLEX TF-2 OR SIMILAR NOT TO BE USED FOR CONSTRUCTION THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION. SCALE IN METERS

1. DO NOT SCALE, USE FIGURED DIMENSIONS ONLY.

2. DRAWINGS FOR PLANNING PURPOSES ONLY, NOT FOR BID OR CONSTRUCTION.

3. CO-ORDINATES SHOWN ARE TO IRISH NATIONAL GRID IN METRES.

SHANNON LNG LIMITED	PROJECT	DRAWING NUMBER	REV
HANNON TECHNOLOGY AND ENERGY PARK (STEP)	198291-19	STA-S3911	0
FIRE WATER RETENTION POND & OUTFALL PIPE	CODE	FIGURE F2-6b	
PLAN, SECTION & DETAILS	AREA	FIGURE F2-00	



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	LEGEND
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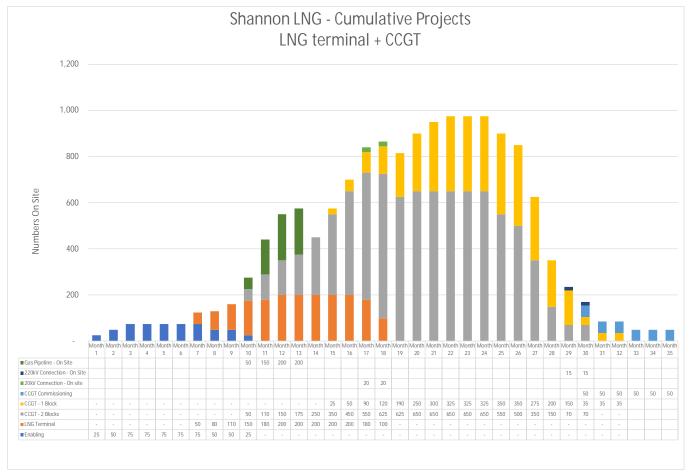


Figure F2-8a. Construction Manpower Projection for the Power Plant and LNG Terminal

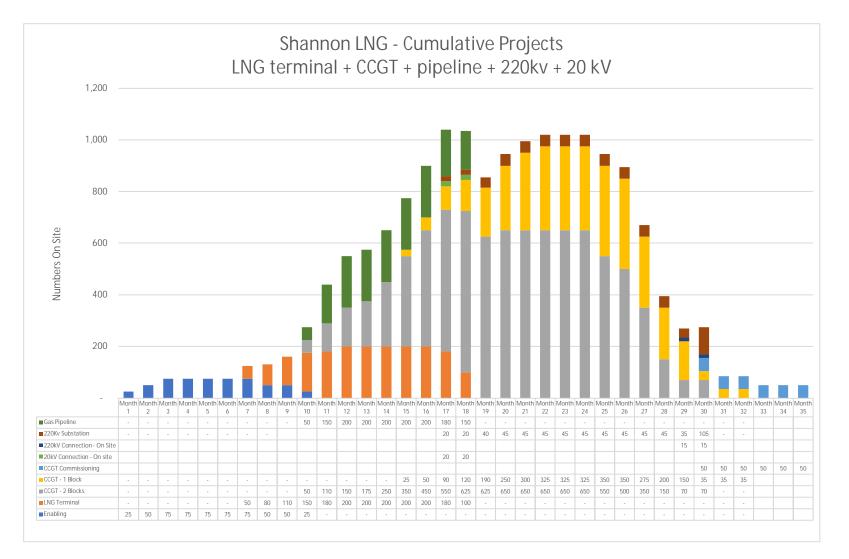


Figure F2-8b. Worst Case Construction Manpower Projection

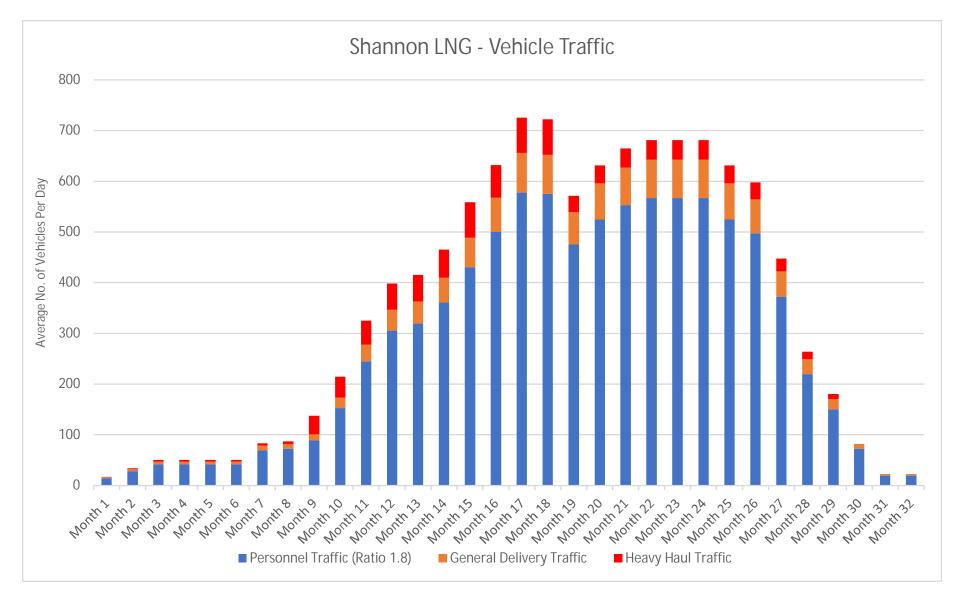
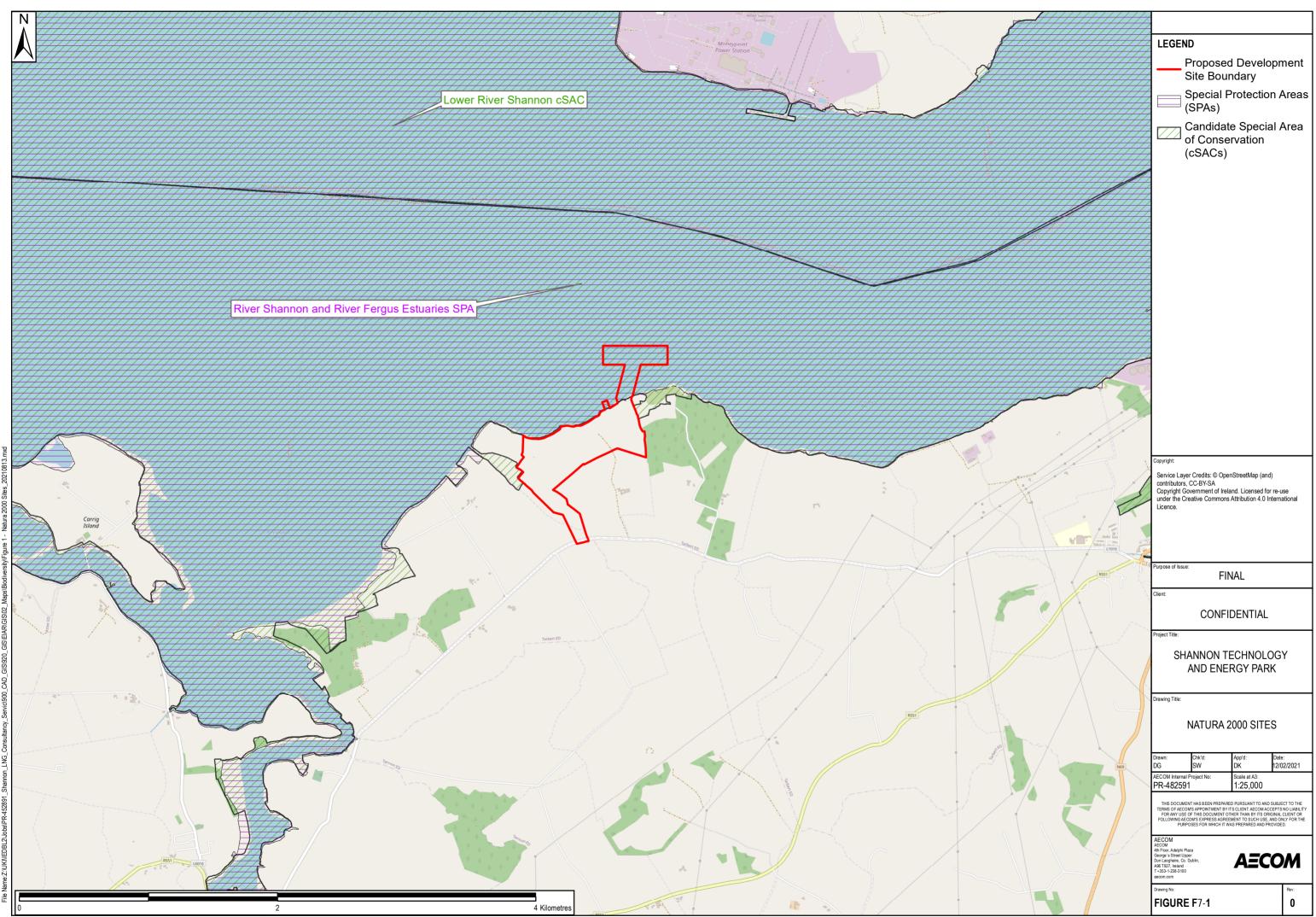
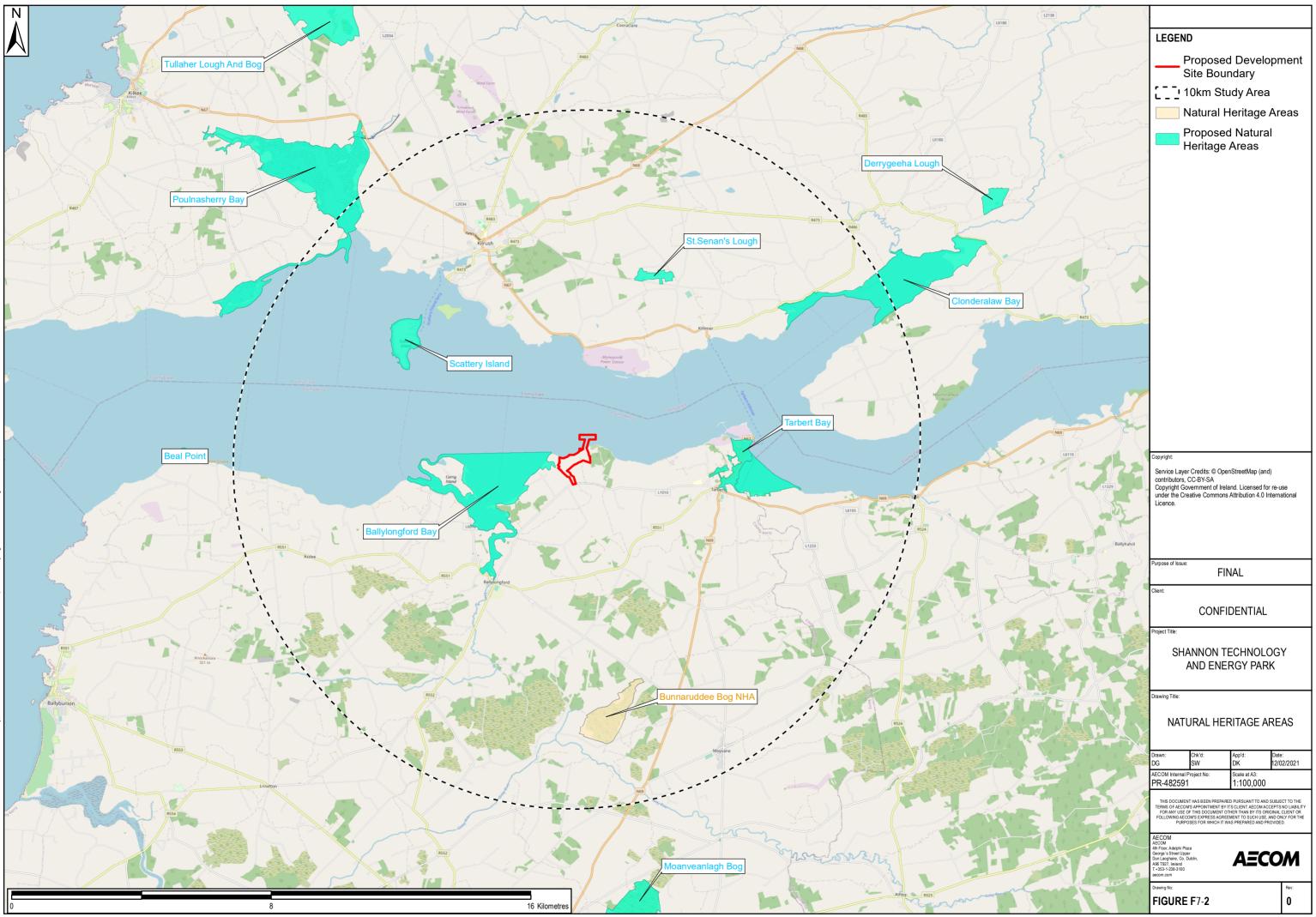


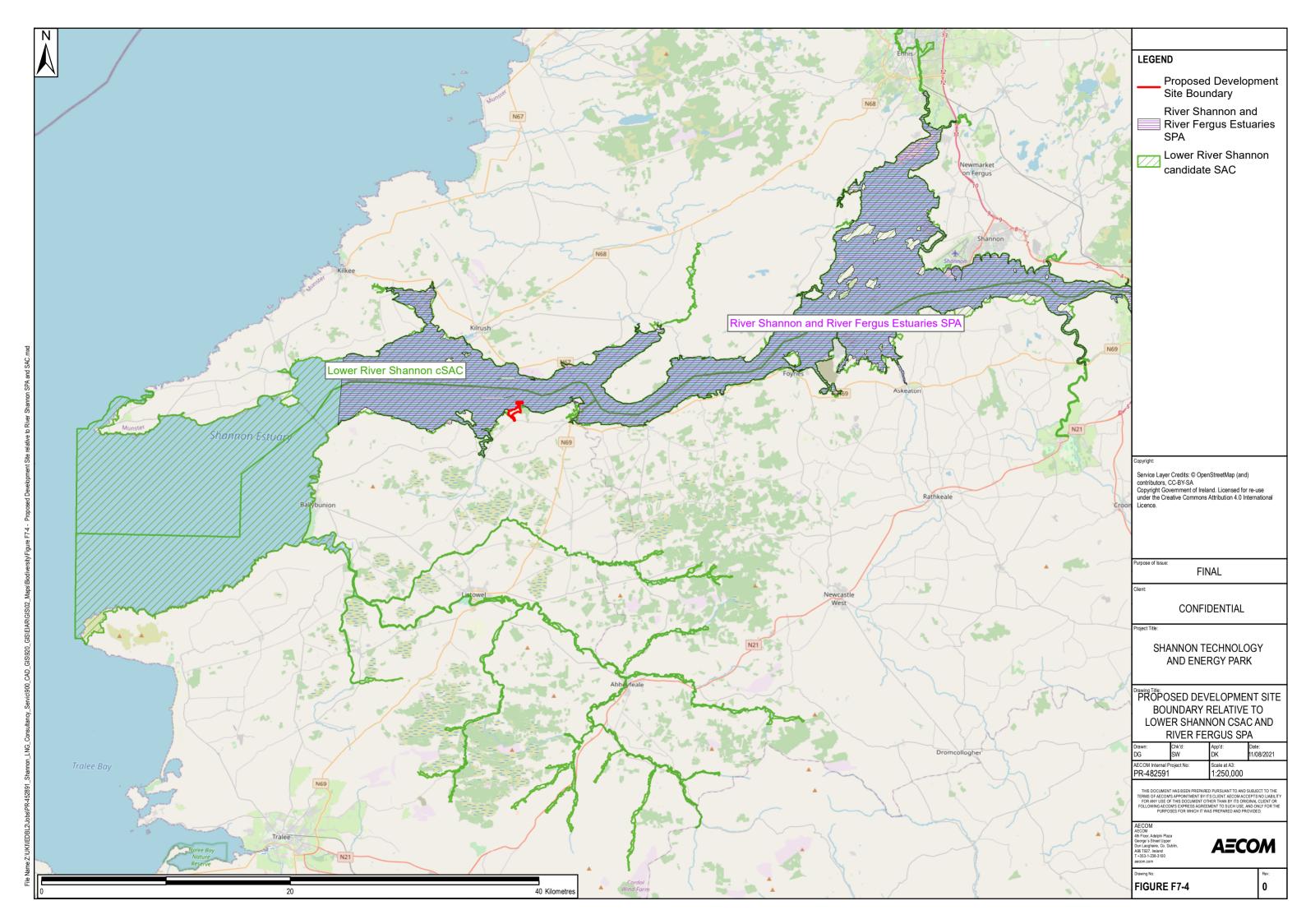
Figure F2-8c. Worst Case Construction Vehicle Projection

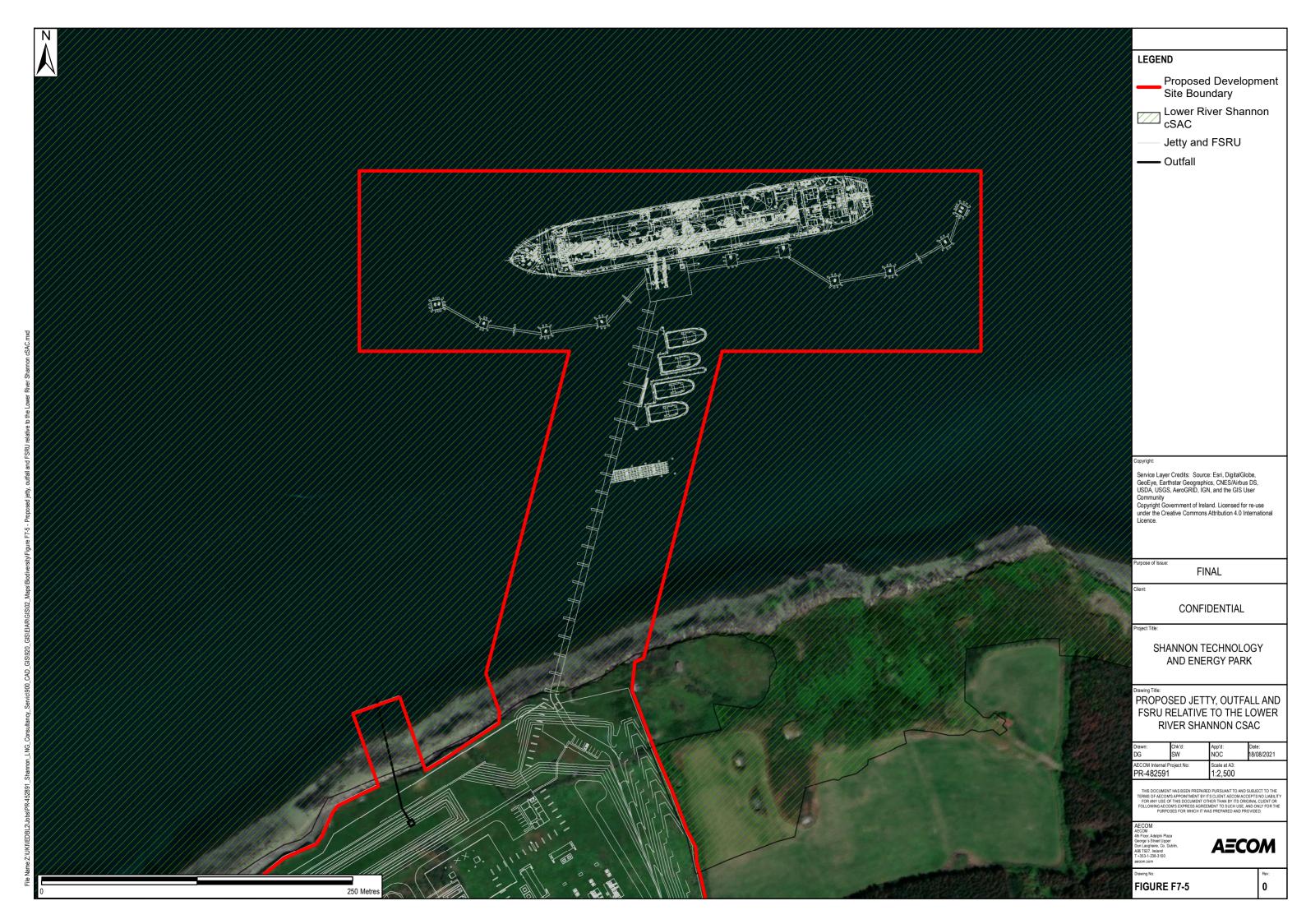






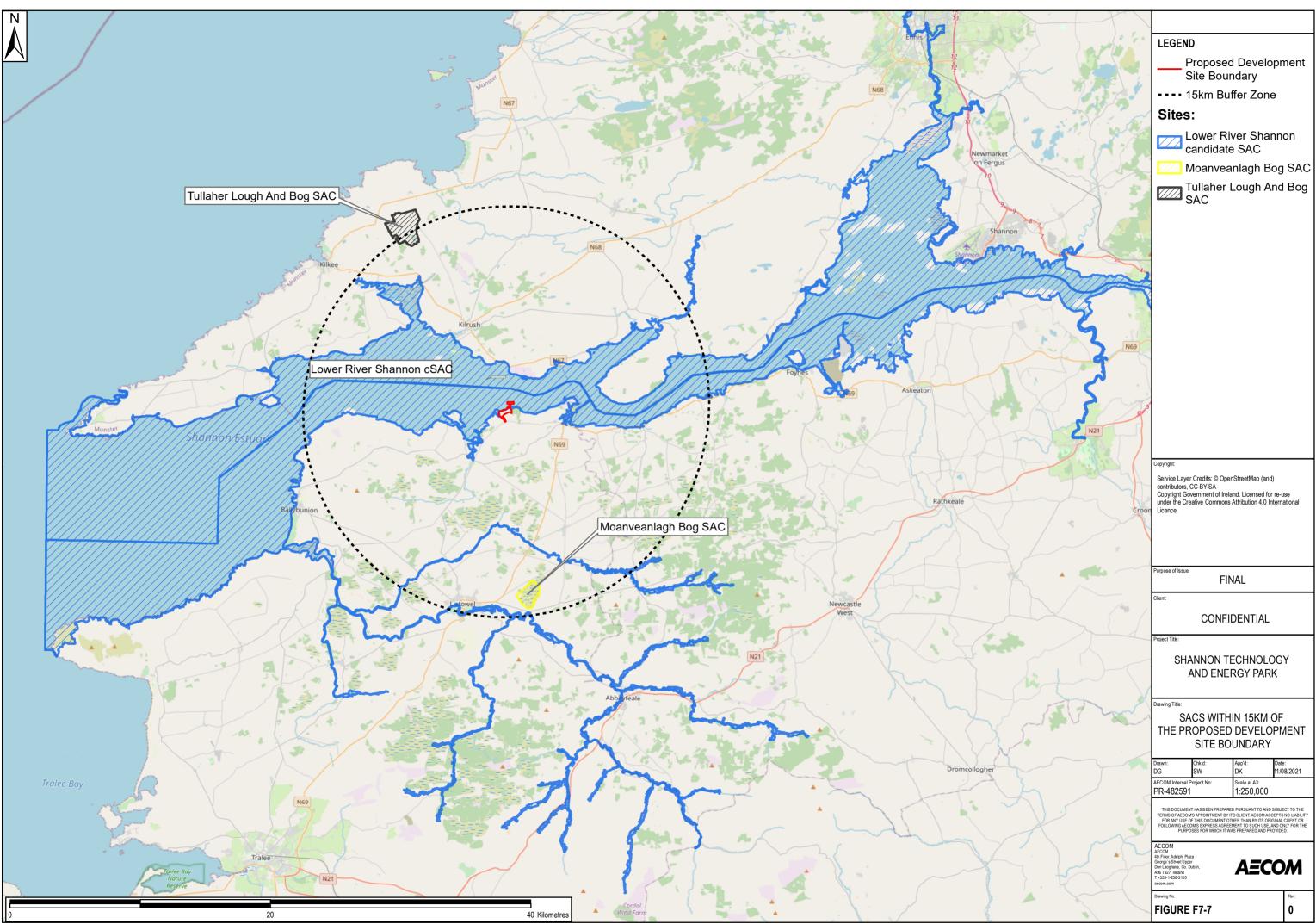
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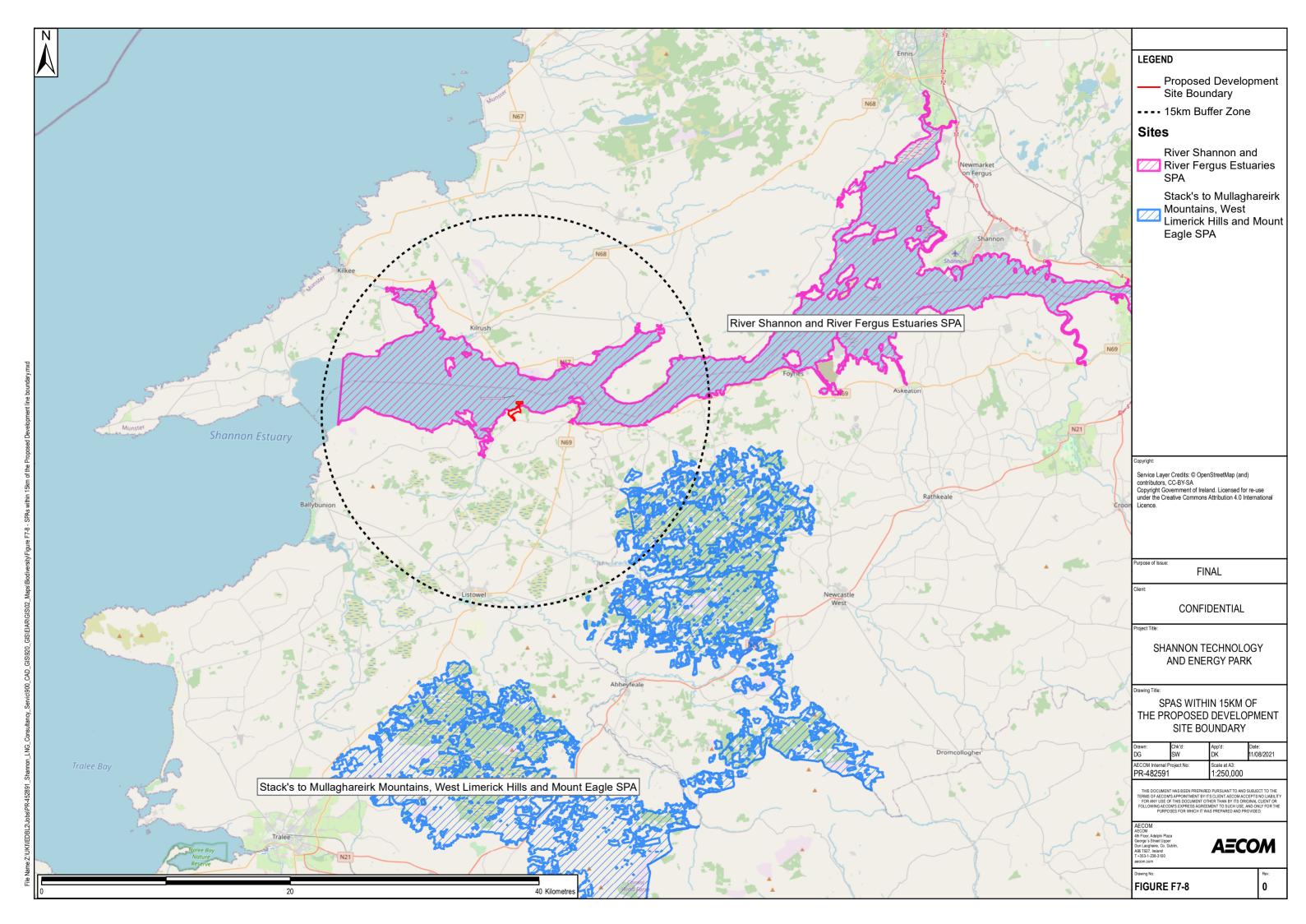




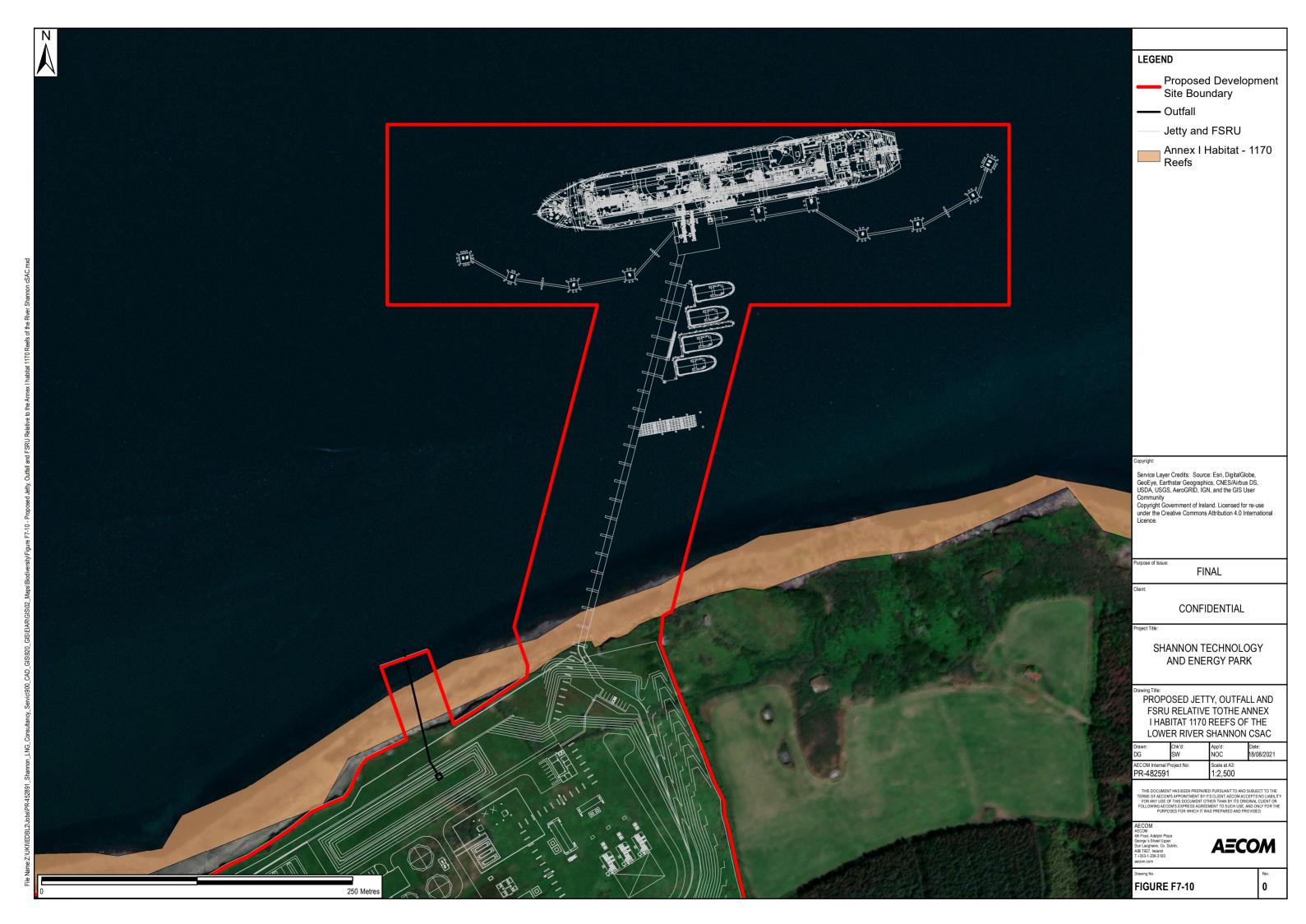


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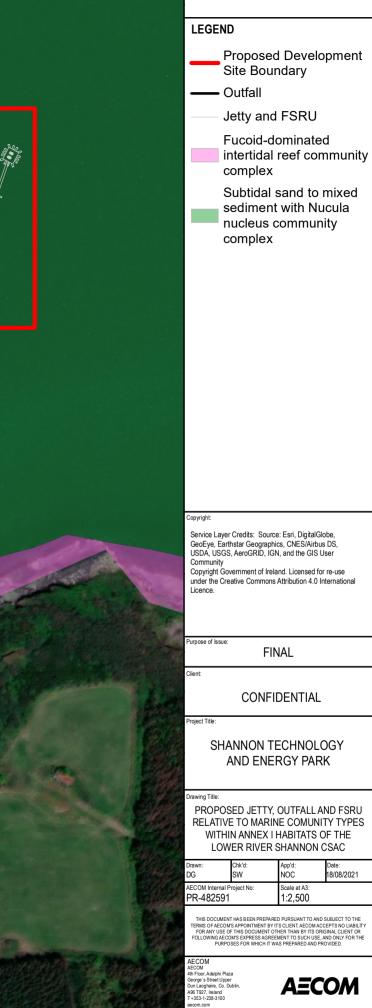




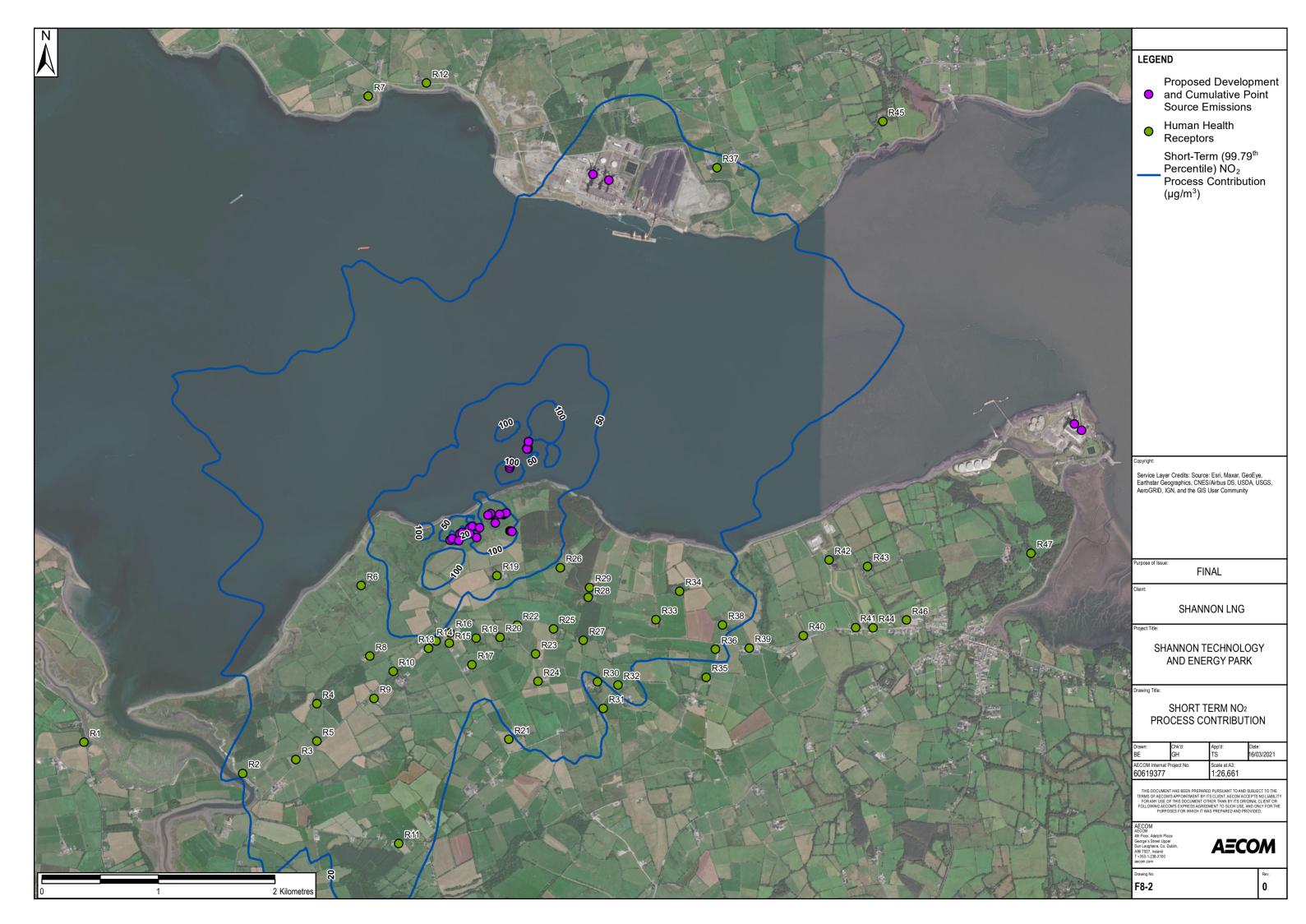
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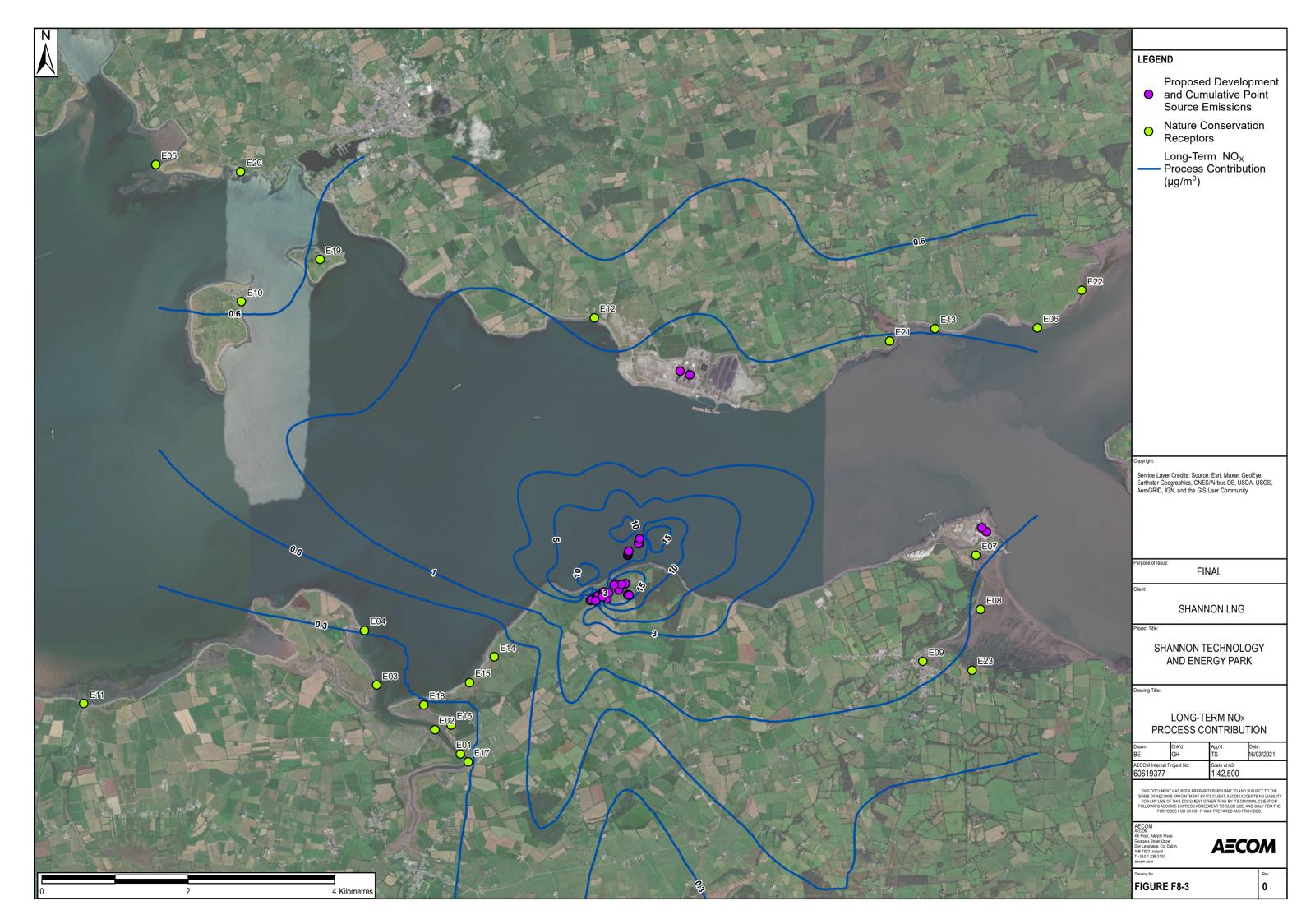
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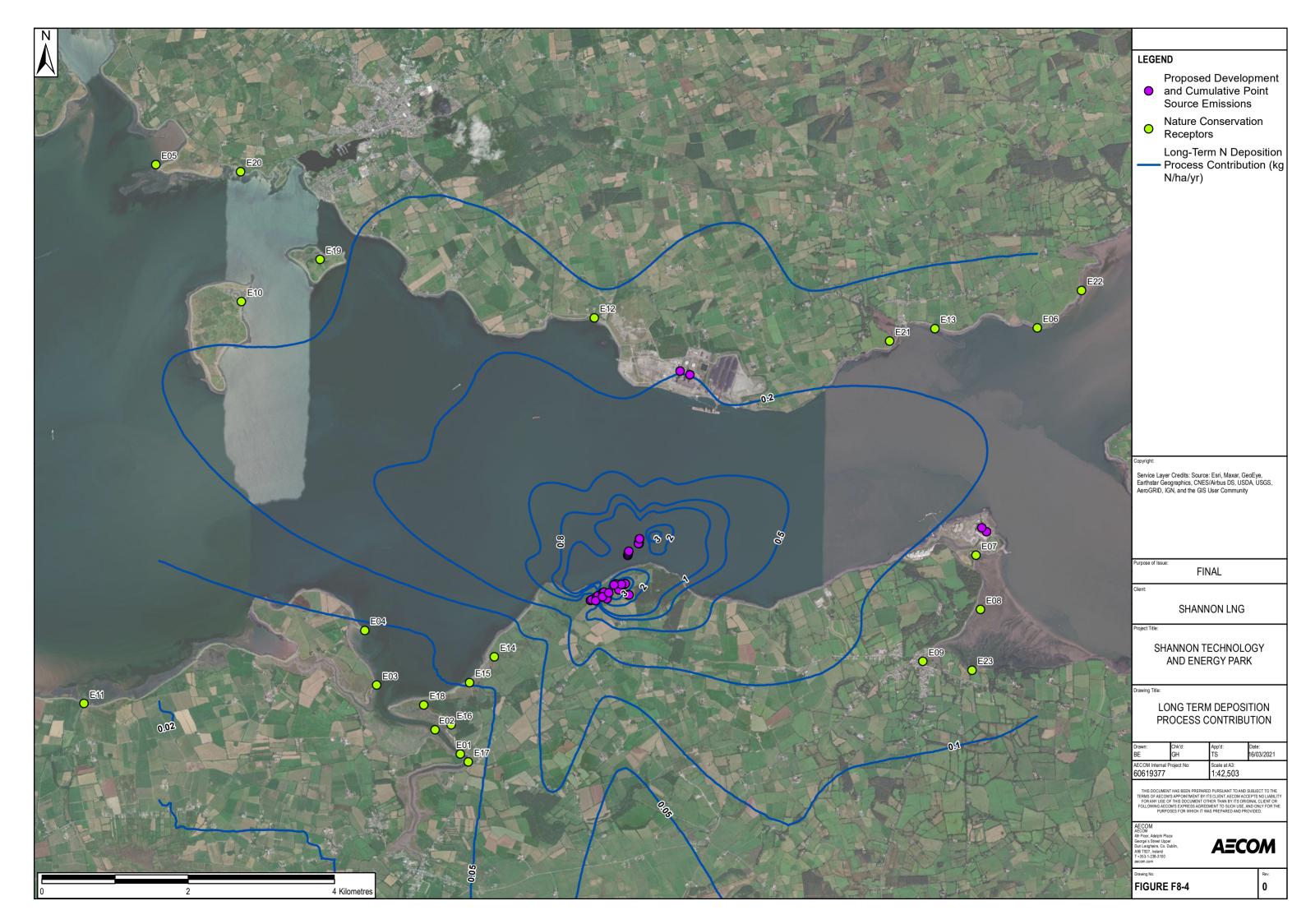
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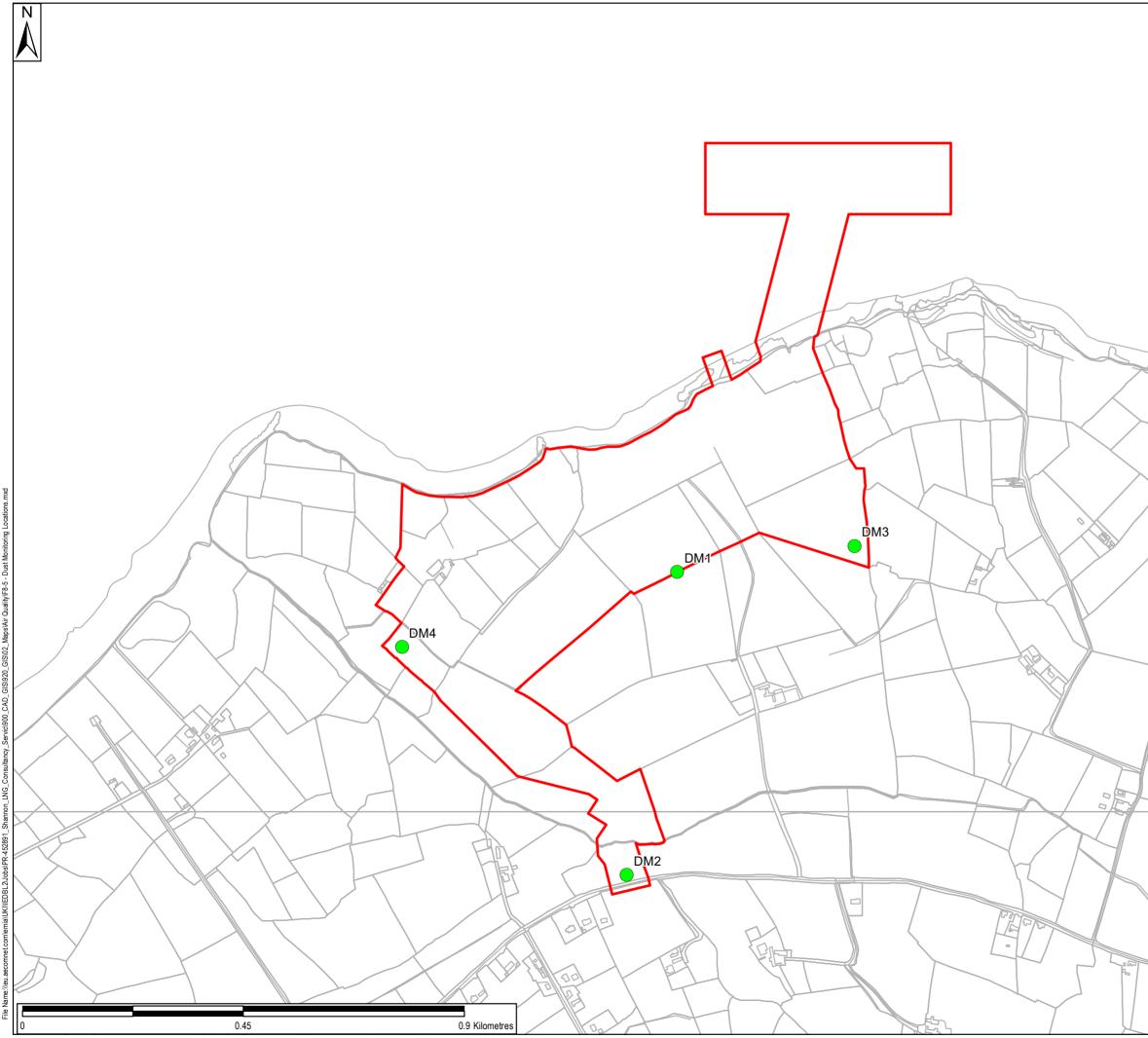
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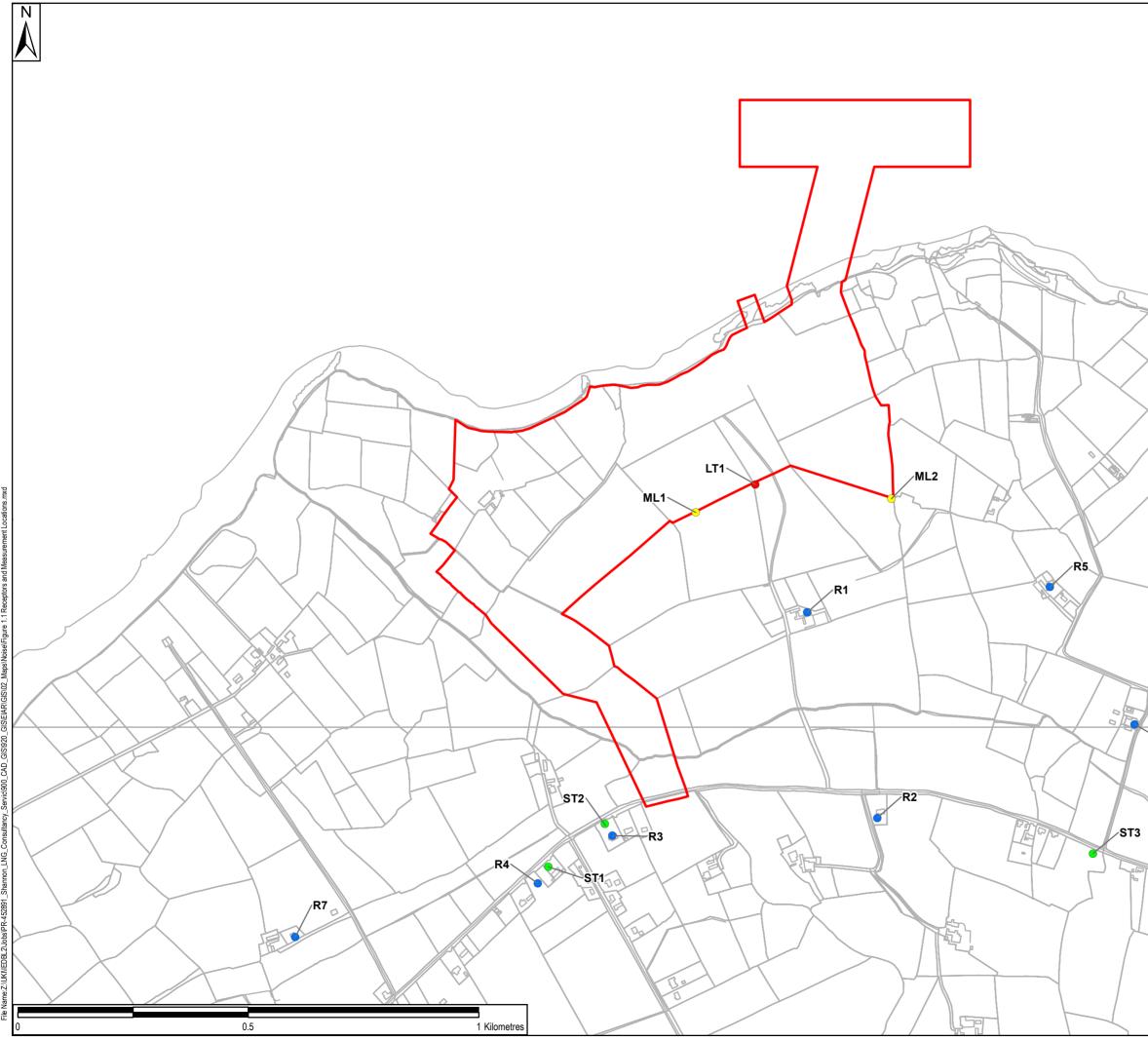




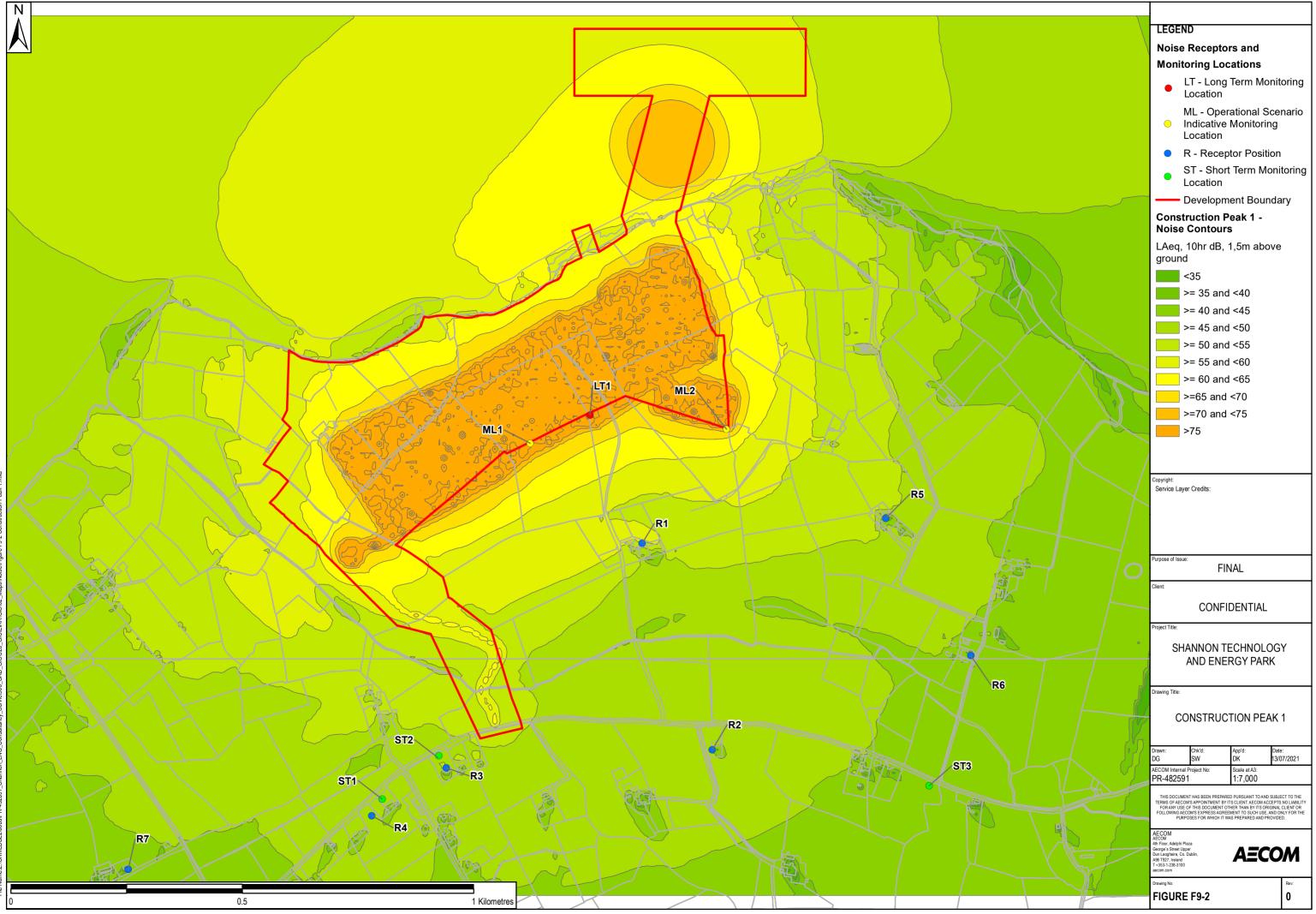


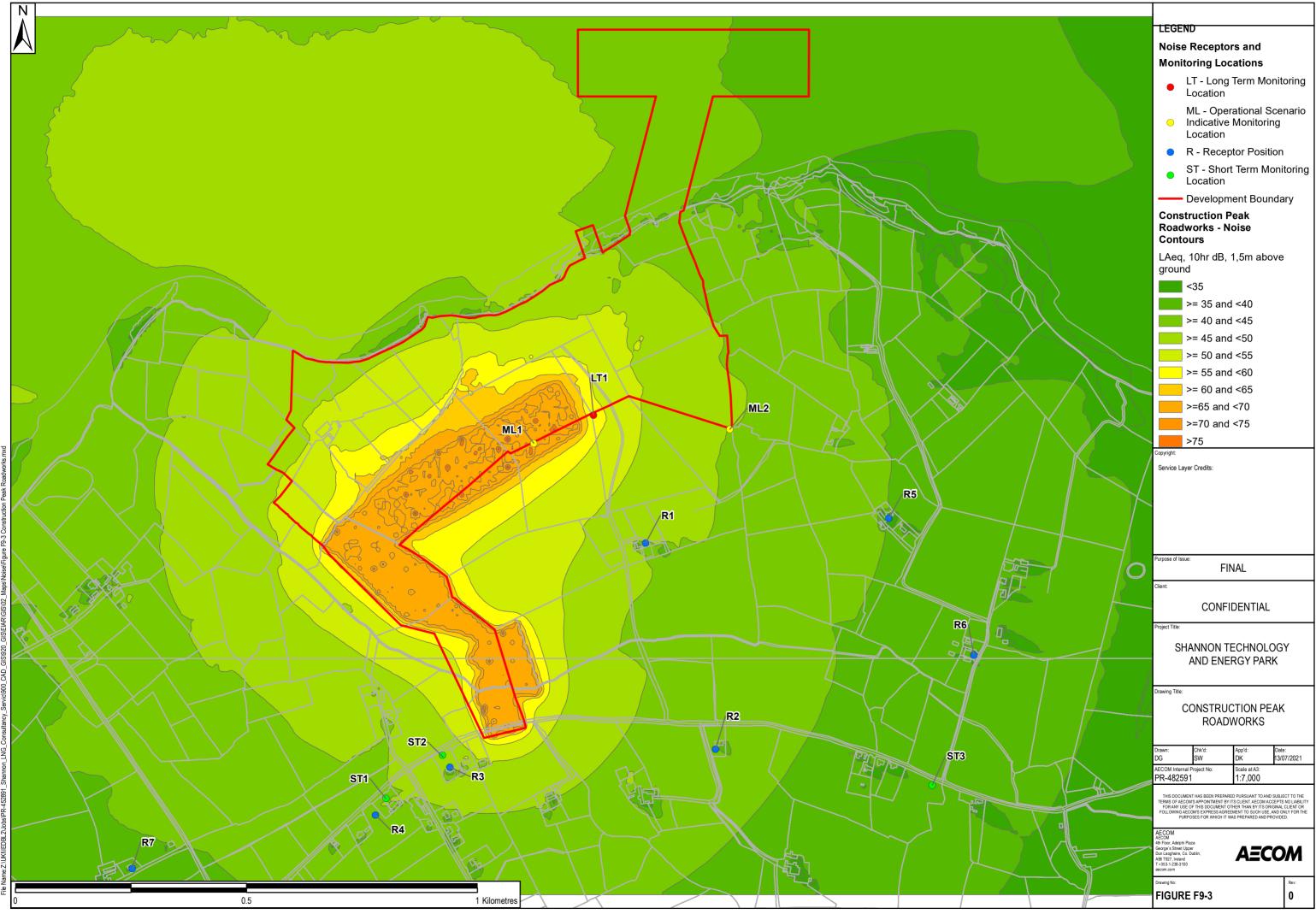


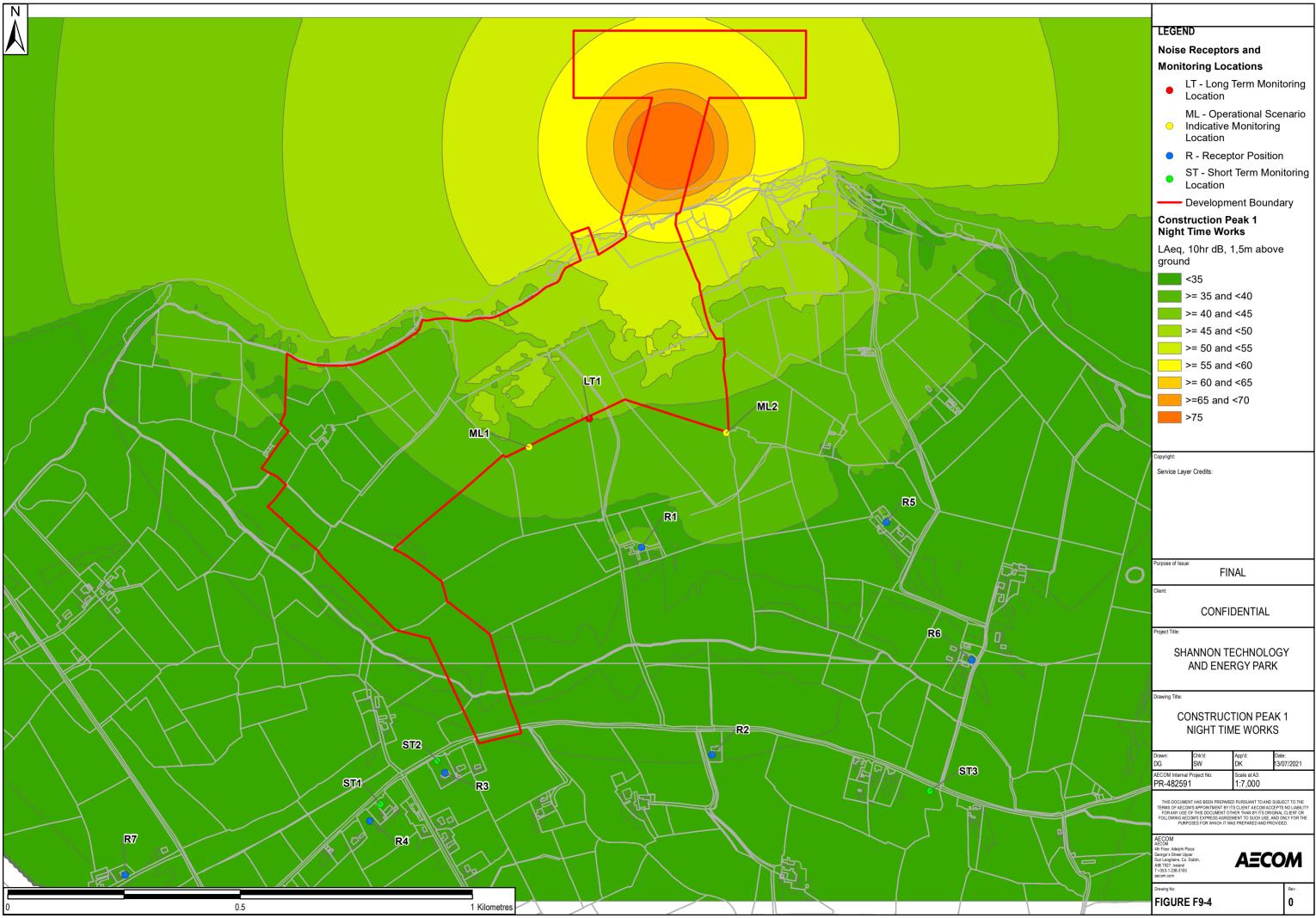
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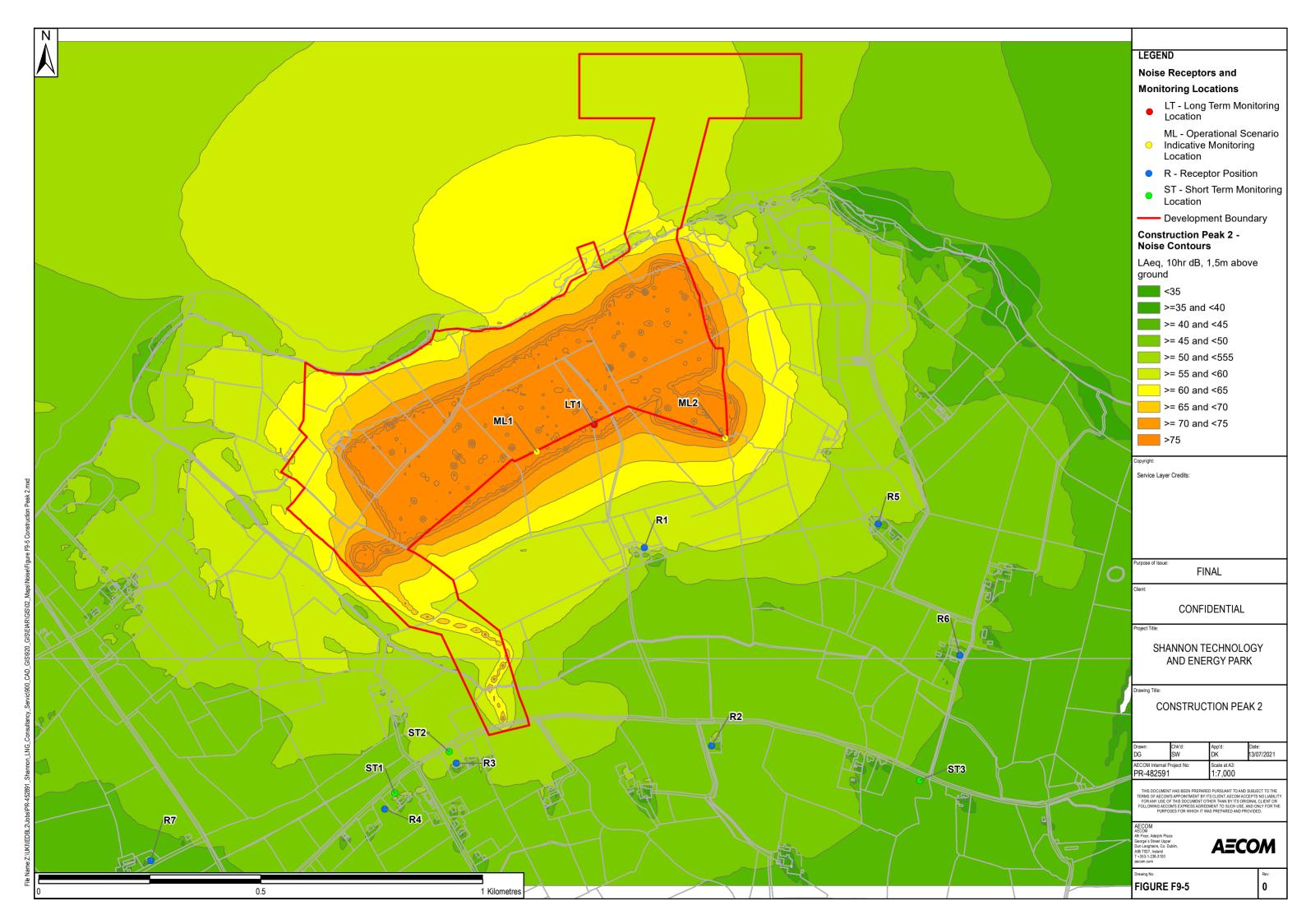


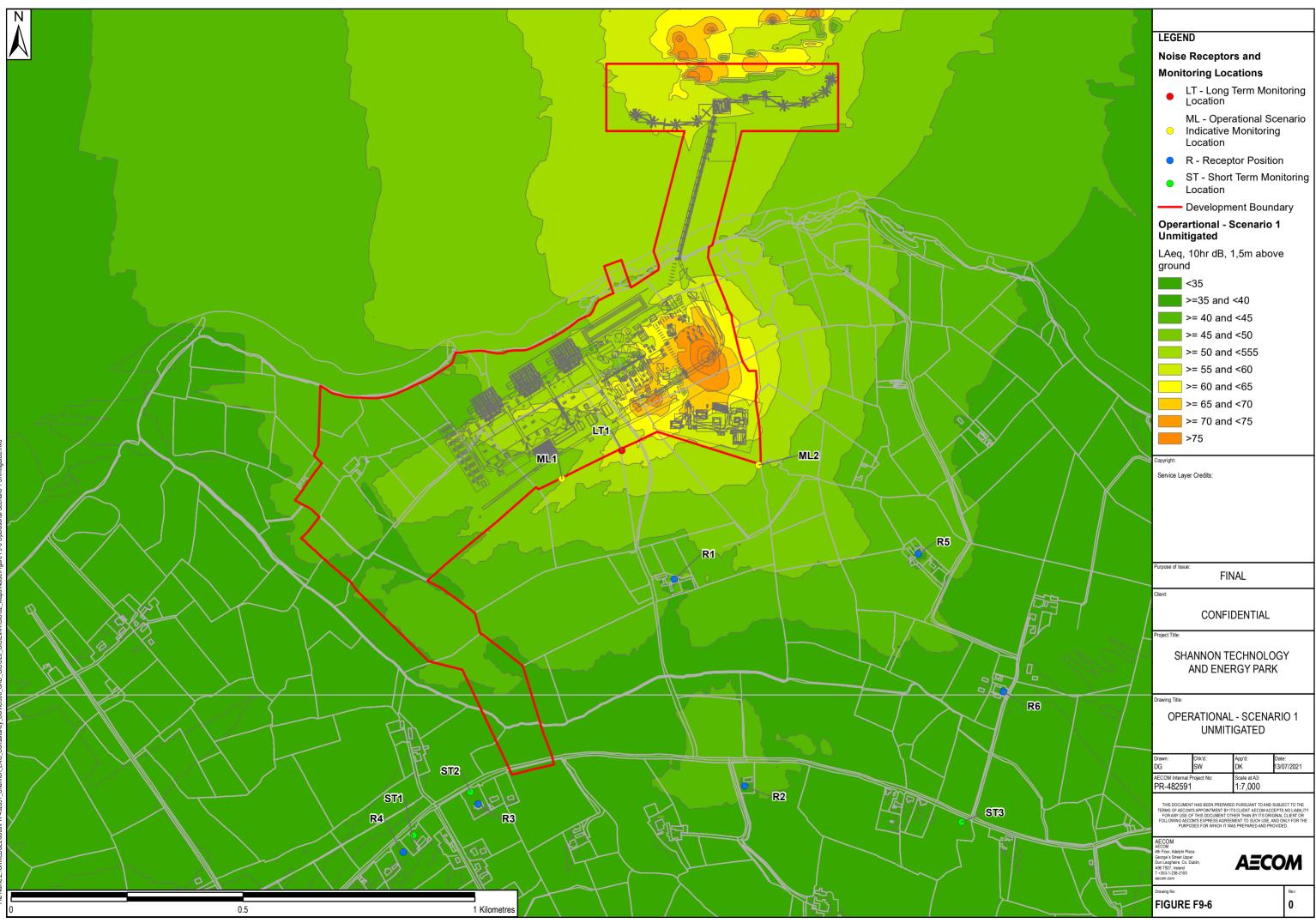
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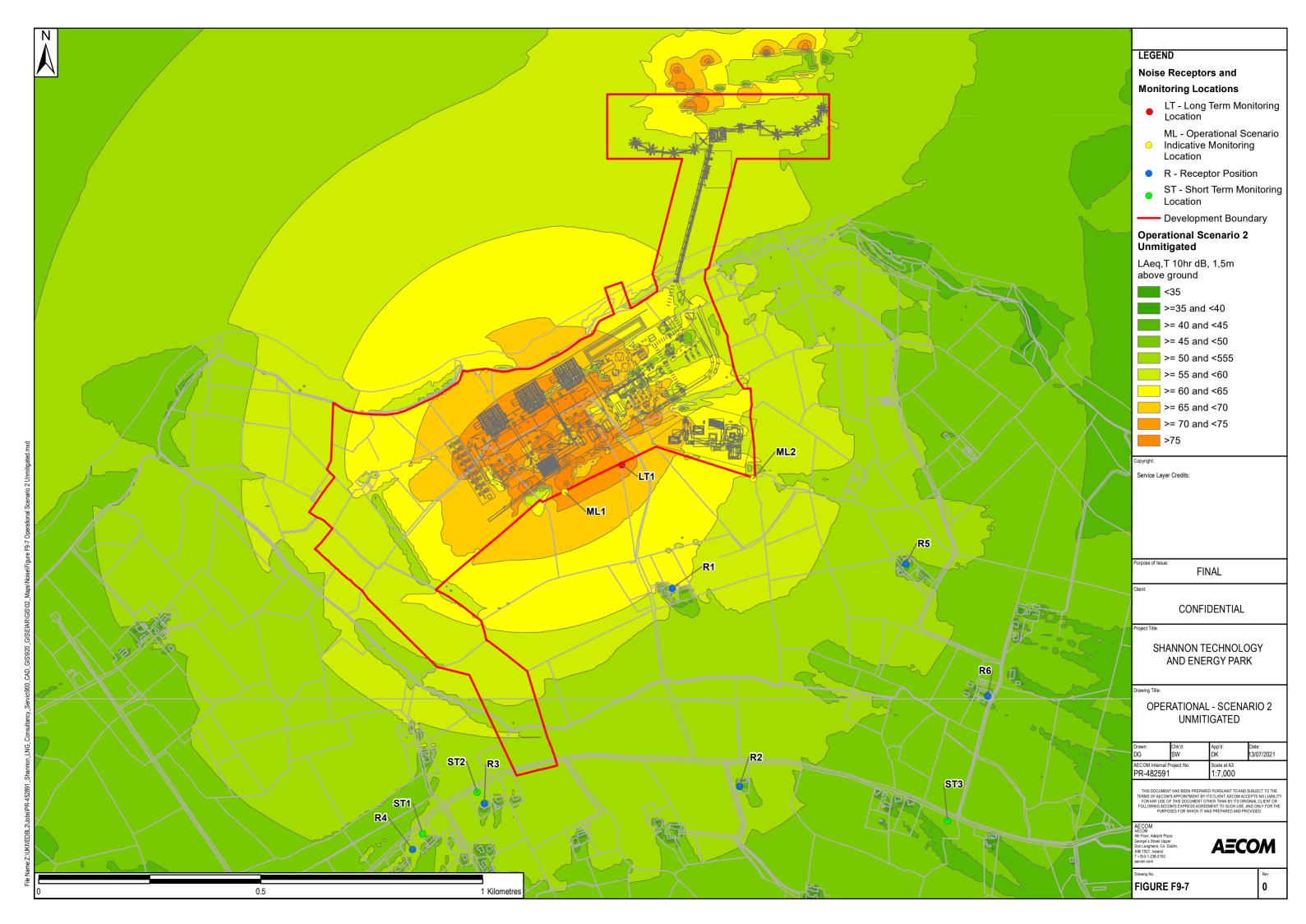


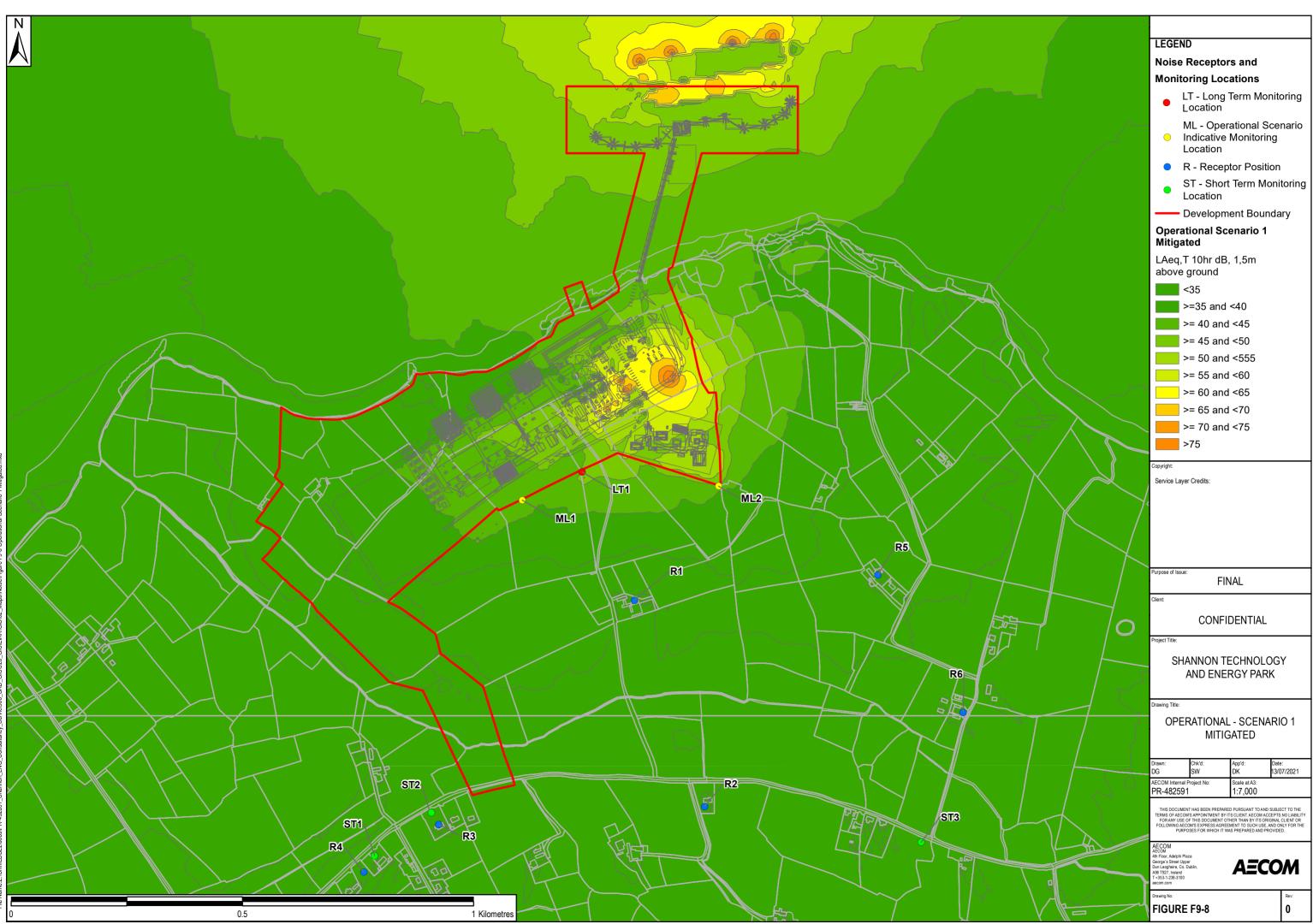




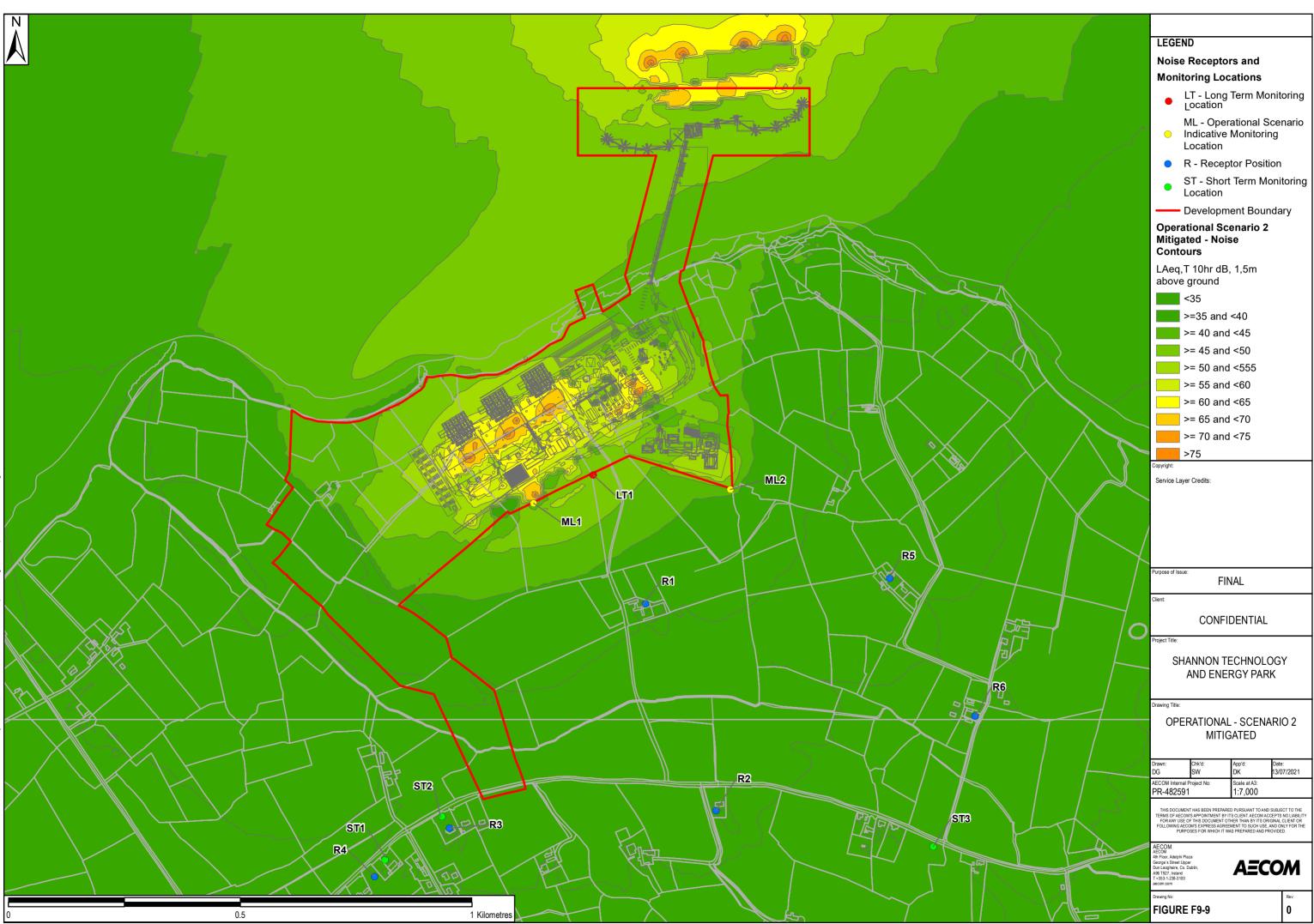


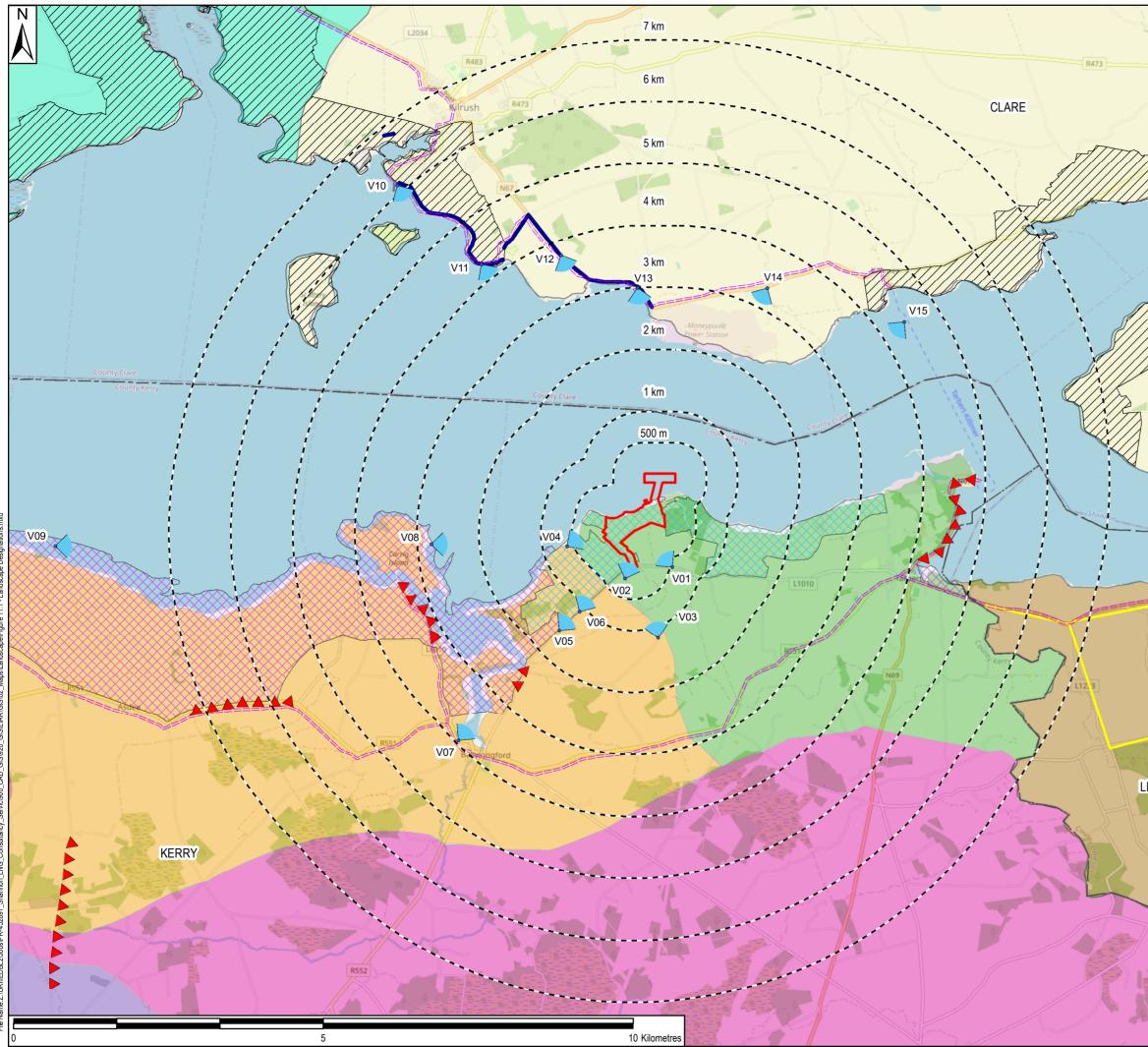




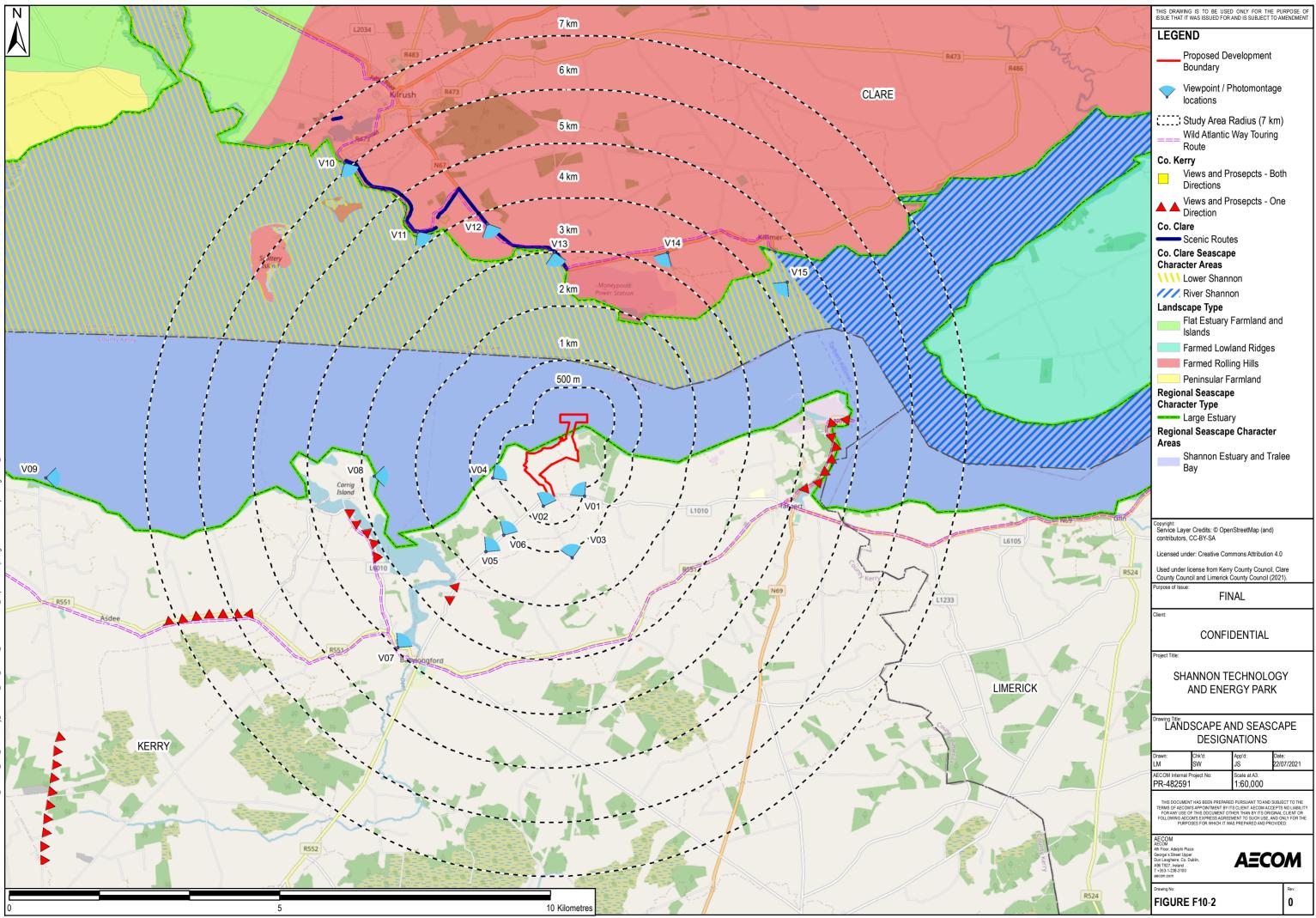


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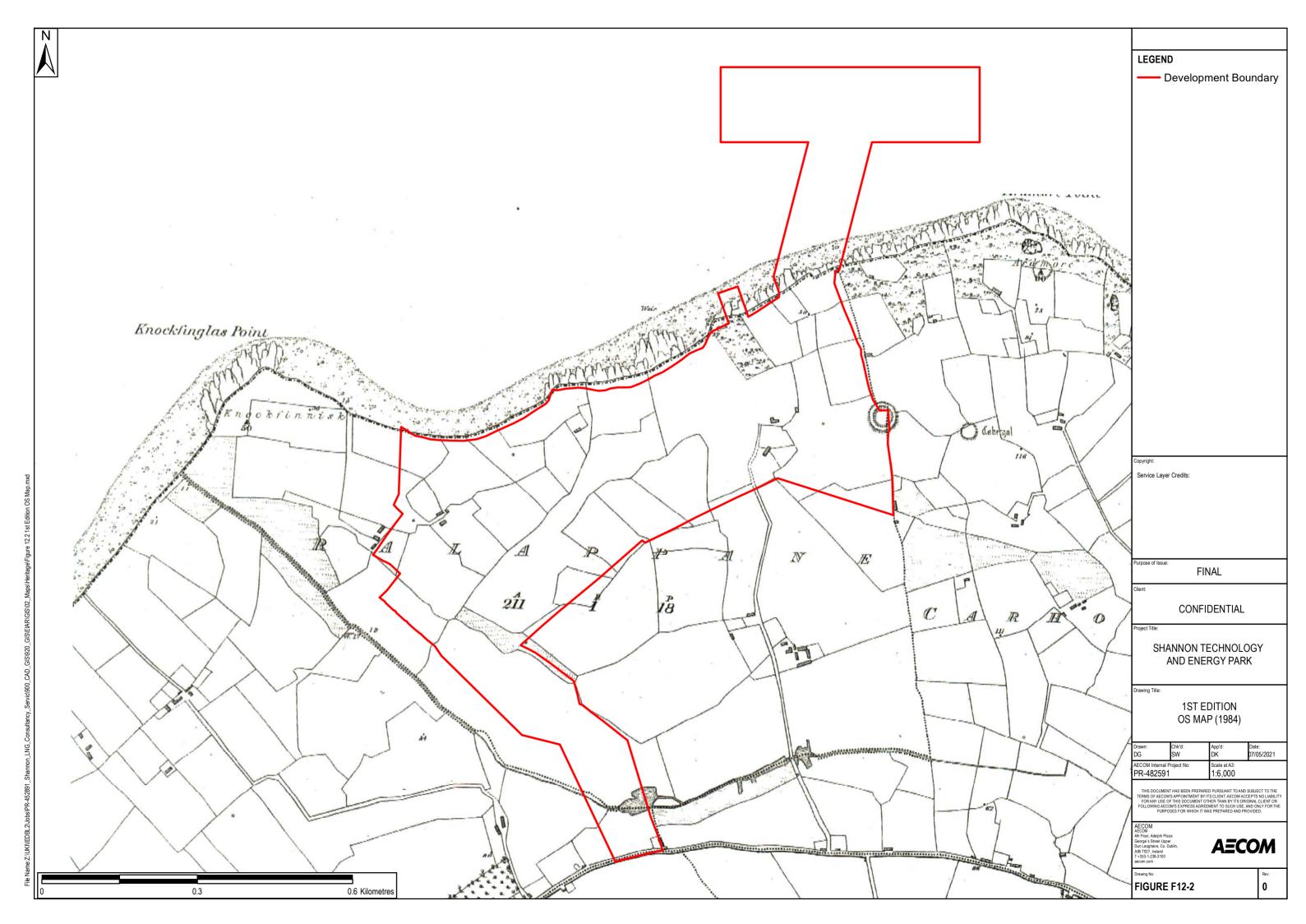


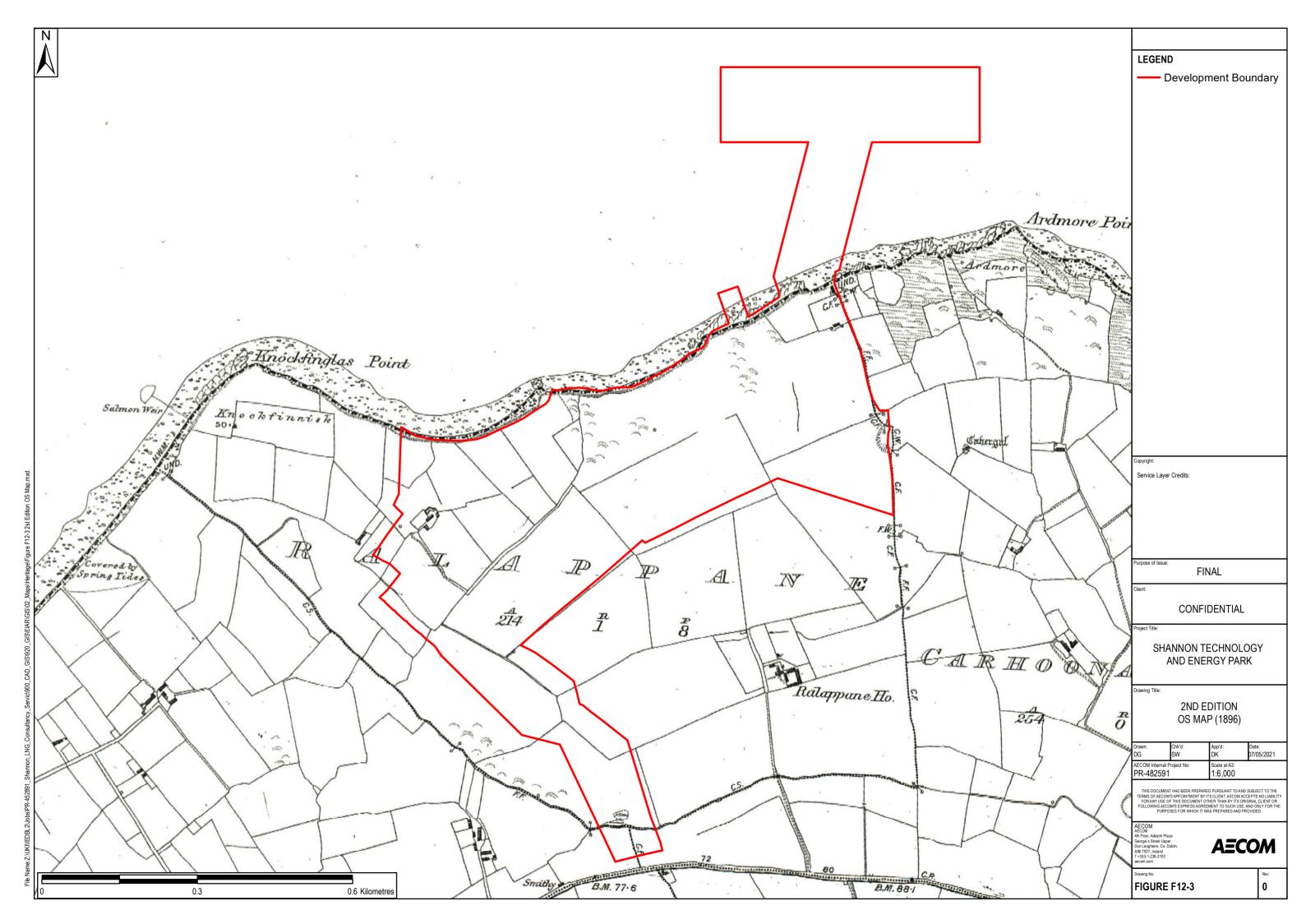


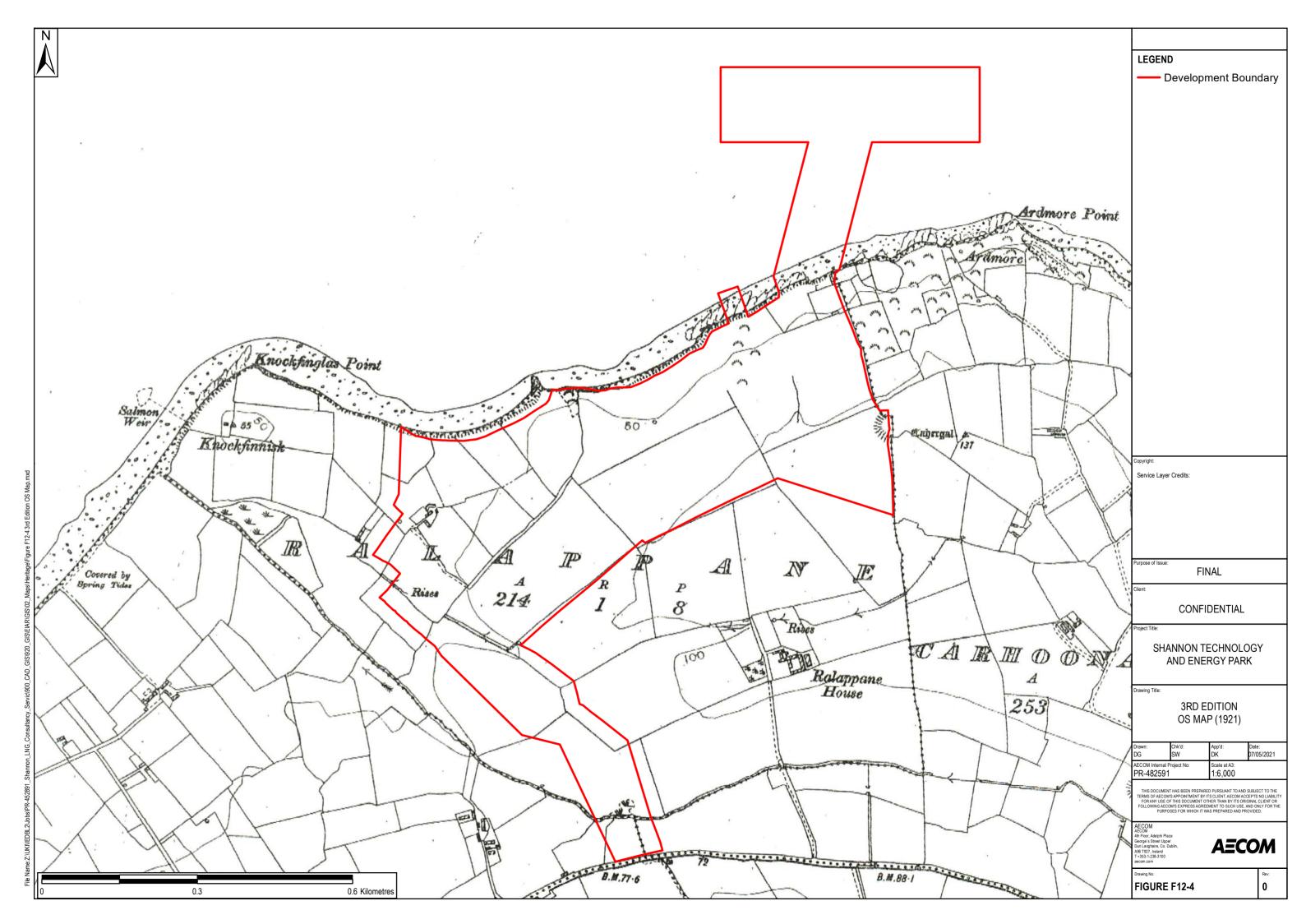
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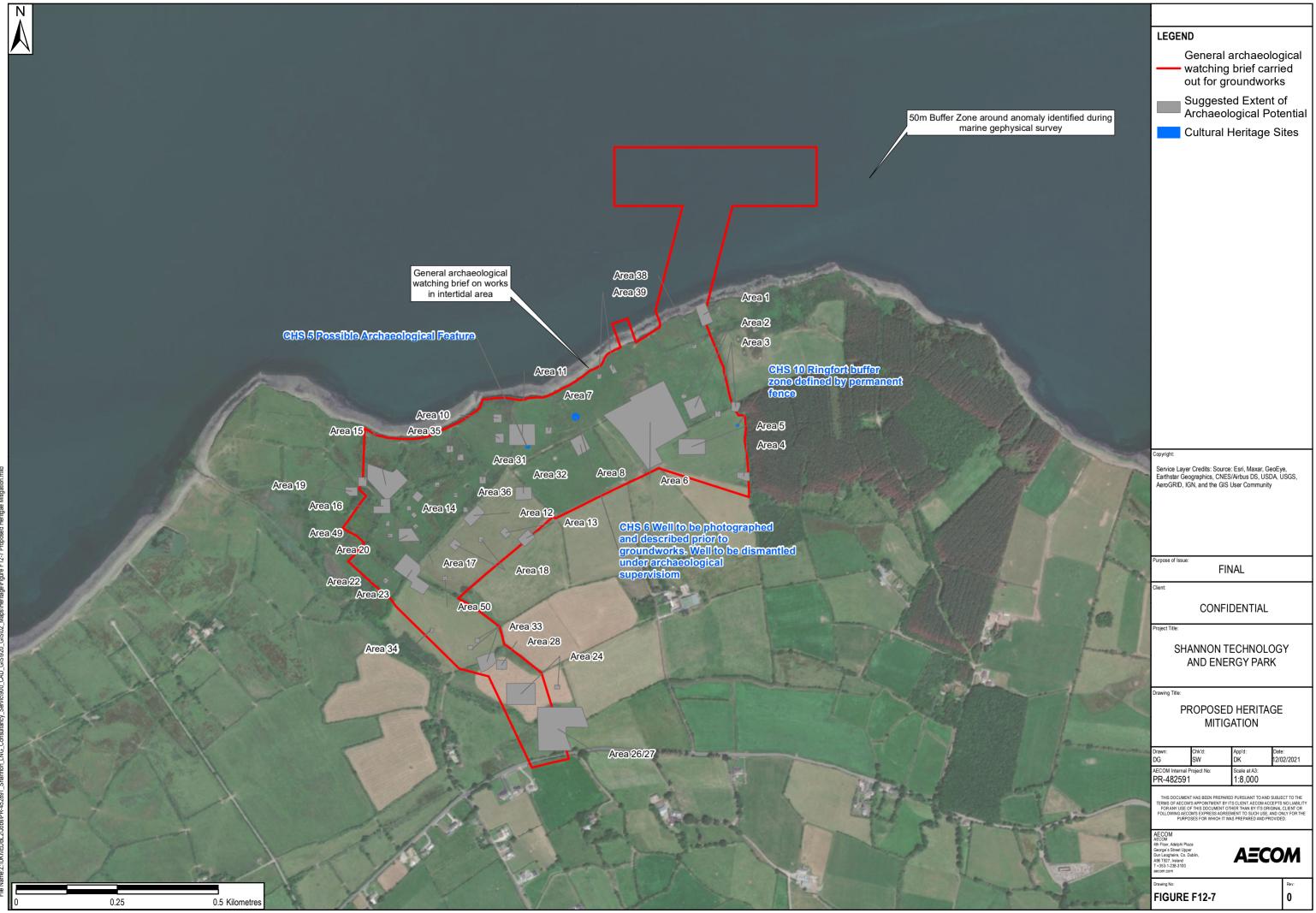














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