## ØRSTED OATFIELD WIND FARM

## PLANNING DRAWINGS

DRAWING. No.	TITLE
20959-NOD-XX-XX-DR-Z-08000	Location of Site Notices
20959-NOD-XX-XX-DR-C-08000	Site Location Plan in County Clare
20959-NOD-XX-XX-DR-C-08001	Site Layout Plan (Key Plan)
20959-NOD-XX-XX-DR-C-08002	Site Location Plan - Sheet 1 of 5
20959-NOD-XX-XX-DR-C-08003	Site Location Plan - Sheet 2 of 5
20959-NOD-XX-XX-DR-C-08004	Site Location Plan - Sheet 3 of 5
20959-NOD-XX-XX-DR-C-08005	Site Location Plan - Sheet 4 of 5
20959-NOD-XX-XX-DR-C-08006	Site Location Plan - Sheet 5 of 5
20959-NOD-XX-XX-DR-C-08007	Site Location & Site Plan (Off-Site Works)
20959-NOD-XX-XX-DR-C-08008	Wind Farm Site Layout
20959-NOD-XX-XX-DR-C-08010	Detailed Site Plan Sheet 1 of 14
20959-NOD-XX-XX-DR-C-08011	Detailed Site Plan Sheet 2 of 14
20959-NOD-XX-XX-DR-C-08012	Detailed Site Plan Sheet 3 of 14
20959-NOD-XX-XX-DR-C-08013	Detailed Site Plan Sheet 4 of 14
20959-NOD-XX-XX-DR-C-08014	Detailed Site Plan Sheet 5 of 14
20959-NOD-XX-XX-DR-C-08015	Detailed Site Plan Sheet 6 of 14
20959-NOD-XX-XX-DR-C-08016	Detailed Site Plan Sheet 7 of 14
20959-NOD-XX-XX-DR-C-08017	Detailed Site Plan Sheet 8 of 14
20959-NOD-XX-XX-DR-C-08018	Detailed Site Plan Sheet 9 of 14
20959-NOD-XX-XX-DR-C-08019	Detailed Site Plan Sheet 10 of 14
20959-NOD-XX-XX-DR-C-08020	Detailed Site Plan Sheet 11 of 14
20959-NOD-XX-XX-DR-C-08021	Detailed Site Plan Sheet 12 of 14
20959-NOD-XX-XX-DR-C-08022	Detailed Site Plan Sheet 13 of 14
20959-NOD-XX-XX-DR-C-08023	Detailed Site Plan Sheet 14 of 14
20959-NOD-XX-XX-DR-C-08030	Hardstand Layout Sheet 1 of 11 Turbine 1
20959-NOD-XX-XX-DR-C-08031	Hardstand Layout Sheet 2 of 11 Turbine 2
20959-NOD-XX-XX-DR-C-08032	Hardstand Layout Sheet 3 of 11 Turbine 3
20959-NOD-XX-XX-DR-C-08033	Hardstand Layout Sheet 4 of 11 Turbine 4
20959-NOD-XX-XX-DR-C-08034	Hardstand Layout Sheet 5 of 11 Turbine 5
20959-NOD-XX-XX-DR-C-08035	Hardstand Layout Sheet 6 of 11 Turbine 6
20959-NOD-XX-XX-DR-C-08036	Hardstand Layout Sheet 7 of 11 Turbine 7

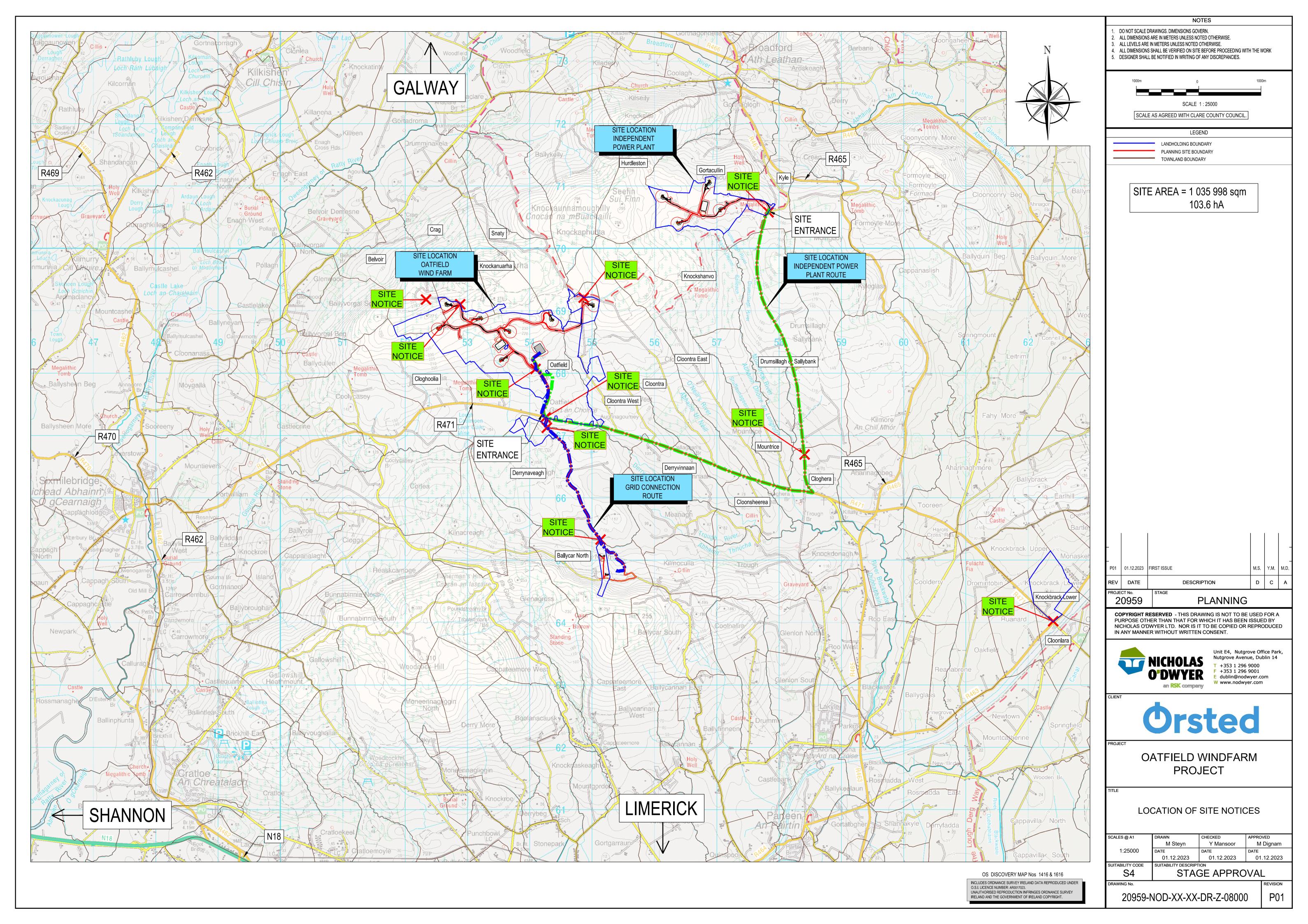
Hardstand Layout Sheet 8 of 11 Turbine 8

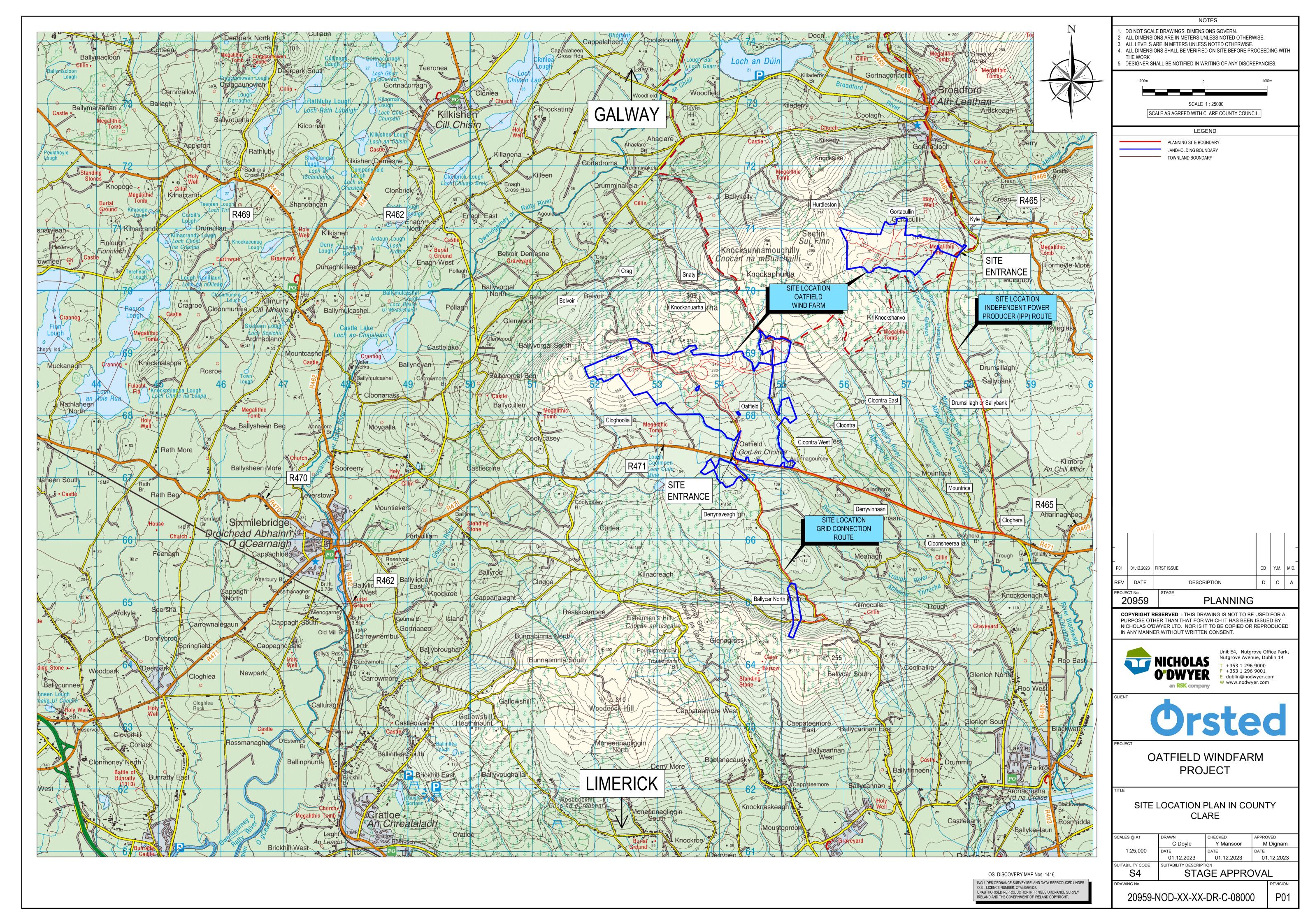
DRAWING. No.	TITLE
20959-NOD-XX-XX-DR-C-08038	Hardstand Layout Sheet 9 of 11 Turbine 9
20959-NOD-XX-XX-DR-C-08039	Hardstand Layout Sheet 10 of 11 Turbine 10
20959-NOD-XX-XX-DR-C-08040	Hardstand Layout Sheet 11 of 11 Turbine 11
20959-NOD-XX-XX-DR-C-08050	West Access Track 3. Bridge Details
20959-NOD-XX-XX-DR-C-08101	Western Site Access Junction Details & Sightlines
20959-NOD-XX-XX-DR-C-08102	Eastern Site Access Junction Details & Sightlines
20959-NOD-XX-XX-DR-C-08103	OHL Mast Location Site Access Junction Details & Sightlines
20959-NOD-XX-XX-DR-C-08104	Proposed Turbine Elevations
20959-NOD-XX-XX-DR-C-08105	Typical Turbine Hardstand & Laydown Area. Temporary Works
20959-NOD-XX-XX-DR-C-08106	Met Mast Specification
20959-NOD-XX-XX-DR-C-08107	Indicative Contractors Compound Layout
20959-NOD-XX-XX-DR-C-08108	Wind turbine foundation, general arrangement
20050 NOD VV VV DD C 09200	Cuid Compostion Site Legation Plan
20959-NOD-XX-XX-DR-C-08200	Grid Connection Site Location Plan
20959-NOD-XX-XX-DR-C-08201	Grid Connection Route Plan
20959-NOD-XX-XX-DR-C-08202	Grid Connection - Site Layout Plan Sheet 1 of 3
20959-NOD-XX-XX-DR-C-08203	Grid Connection - Site Layout Plan Sheet 2 of 3
20959-NOD-XX-XX-DR-C-08204	Grid Connection - Site Layout Plan Sheet 3 of 3
20959-NOD-XX-XX-DR-C-08210	Grid Connection Crossing 1
20959-NOD-XX-XX-DR-C-08211	Grid Connection Crossing 2
20959-NOD-XX-XX-DR-C-08212	HDD Crossing Details for Bridge No1.
20959-NOD-XX-XX-DR-C-08213	HDD Crossing Details for Bridge No2.
20959-NOD-XX-XX-DR-C-08221	Independent Power Producer (IPP) Cable Route Plan
20959-NOD-XX-XX-DR-C-08222	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 1 of 7
20959-NOD-XX-XX-DR-C-08223	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 2 of 7
20959-NOD-XX-XX-DR-C-08224	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 3 of 7
20959-NOD-XX-XX-DR-C-08225	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 4 of 7
20959-NOD-XX-XX-DR-C-08226	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 5 of 7
20959-NOD-XX-XX-DR-C-08227	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 6 of 7
20959-NOD-XX-XX-DR-C-08228	Independent Power Producer (IPP) Cable Route - Site Layout Plan Sheet 7 of 7
20959-NOD-XX-XX-DR-C-08230	Independent Power Producer (IPP) Cable Crossings 1, 4, 6, 8, 10, 12, 13 & 14
20959-NOD-XX-XX-DR-C-08231	Independent Power Producer (IPP) Cable Crossings 2, 3, 5, 7, 9, 11, 15, 16 & 17

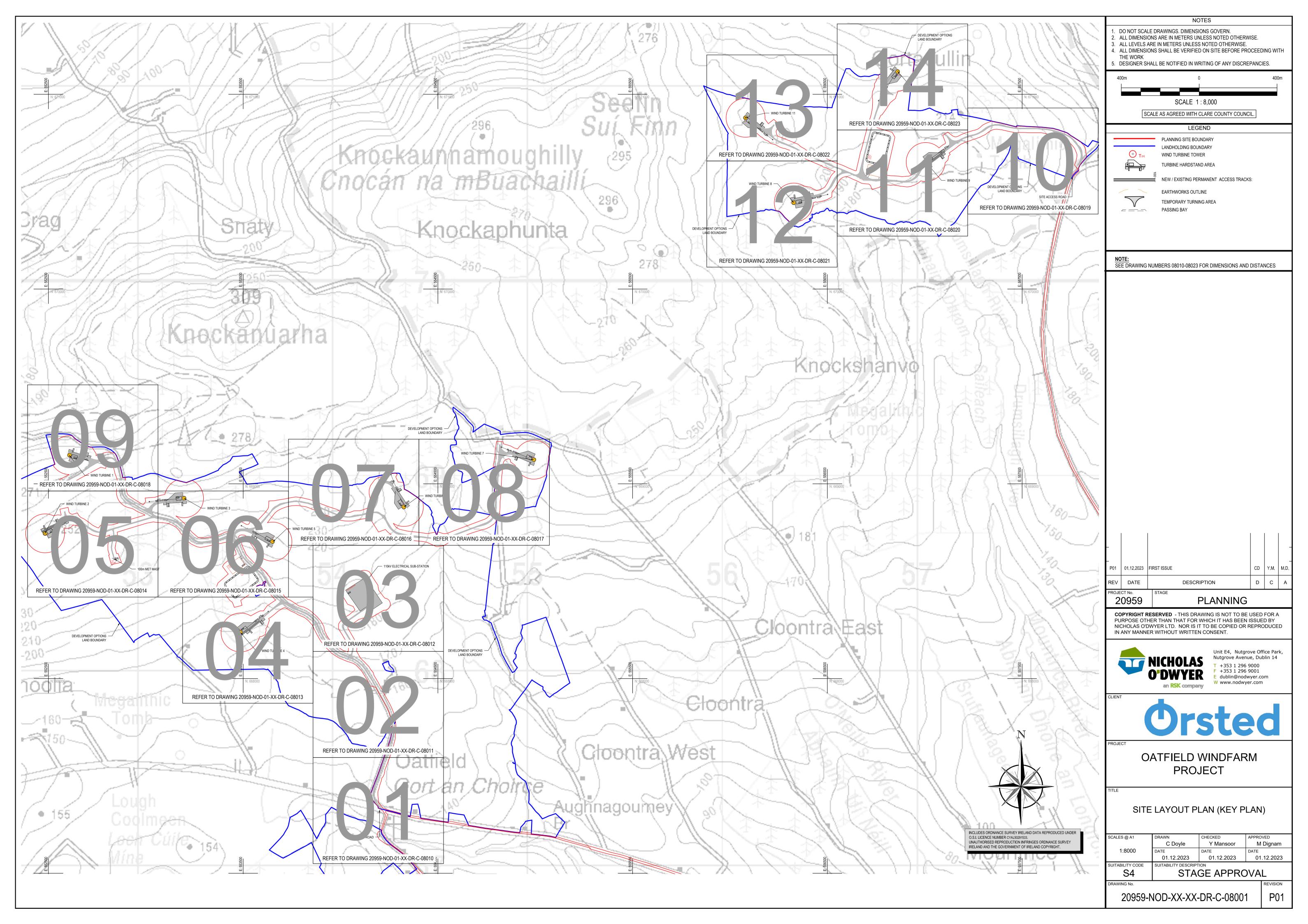
20959-NOD-XX-XX-DR-C-08240	Independent Power Producer (IPP) 33kV Duct Trench Reinstatement
20959-NOD-XX-XX-DR-C-08241	Independent Power Producer (IPP) 33kV Duct Trench Reinstatement Flat Formation
20959-NOD-XX-XX-DR-C-08242	Independent Power Producer (IPP) 33kV Joint Bay Typical Details
20959-NOD-XX-XX-DR-C-08243	Grid Connection 110kV Duct Trench Reinstatement
20959-NOD-XX-XX-DR-C-08245	Grid Connection 110kV Joint Bay Typical Details
20959-NOD-XX-XX-DR-C-08246	Internal Windfarm Collector Circuits. Sheet 1 of 3
20959-NOD-XX-XX-DR-C-08247	Internal Windfarm Collector Circuits. Sheet 2 of 3
20959-NOD-XX-XX-DR-C-08248	Internal Windfarm Collector Circuits. Sheet 3 of 3
20959-NOD-XX-XX-DR-C-08249	Internal Windfarm Collector Circuits. Cable Trench & Crossing Details
20959-NOD-XX-XX-DR-C-08301	Temporary Drainage Details Sheet 1 of 2
20959-NOD-XX-XX-DR-C-08302	Temporary Drainage Details Sheet 2 of 2
20959-NOD-XX-XX-DR-C-08303	Foul Tank Details
20959-NOD-XX-XX-DR-C-08304	Access Track Cross Sections
20959-NOD-XX-XX-DR-C-08305	Site Reinstatement Plan Sheet 1 of 3
20959-NOD-XX-XX-DR-C-08306	Site Reinstatement Plan Sheet 2 of 3
20959-NOD-XX-XX-DR-C-08307	Site Reinstatement Plan Sheet 3 of 3
20959-NOD-XX-XX-DR-C-08308	Access Track Reinstatement Sections
20959-NOD-XX-XX-00-DR-C-4210	Substation Layout Plan
20959-NOD-XX-XX-00-DR-C-4211	Substation Construction Compound Details
20959-NOD-XX-XX-00-DR-C-4212	Substation Building Layout
20959-NOD-XX-XX-00-DR-C-4213	IPP Building Details
20959-NOD-XX-XX-00-DR-C-4214	Lightening Monopole Foundation Details
20959-NOD-XX-XX-00-DR-C-4215	Gate and Fence Details
20959-NOD-XX-XX-00-DR-C-4216	Interface Mast Details
20959-NOD-XX-XX-00-DR-C-4217	Elevation View of Ardnacrusher - Ennis 110kV Line

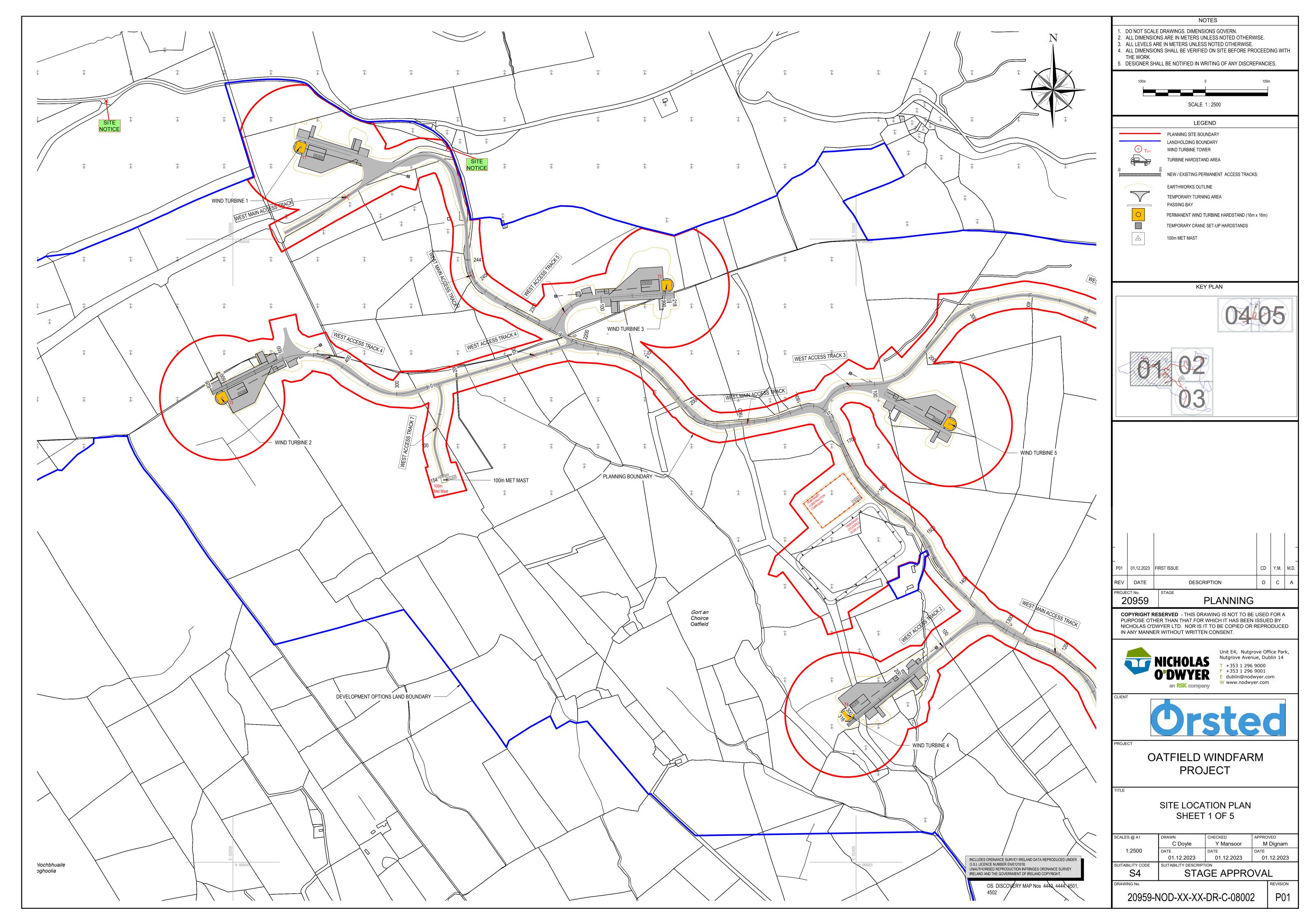


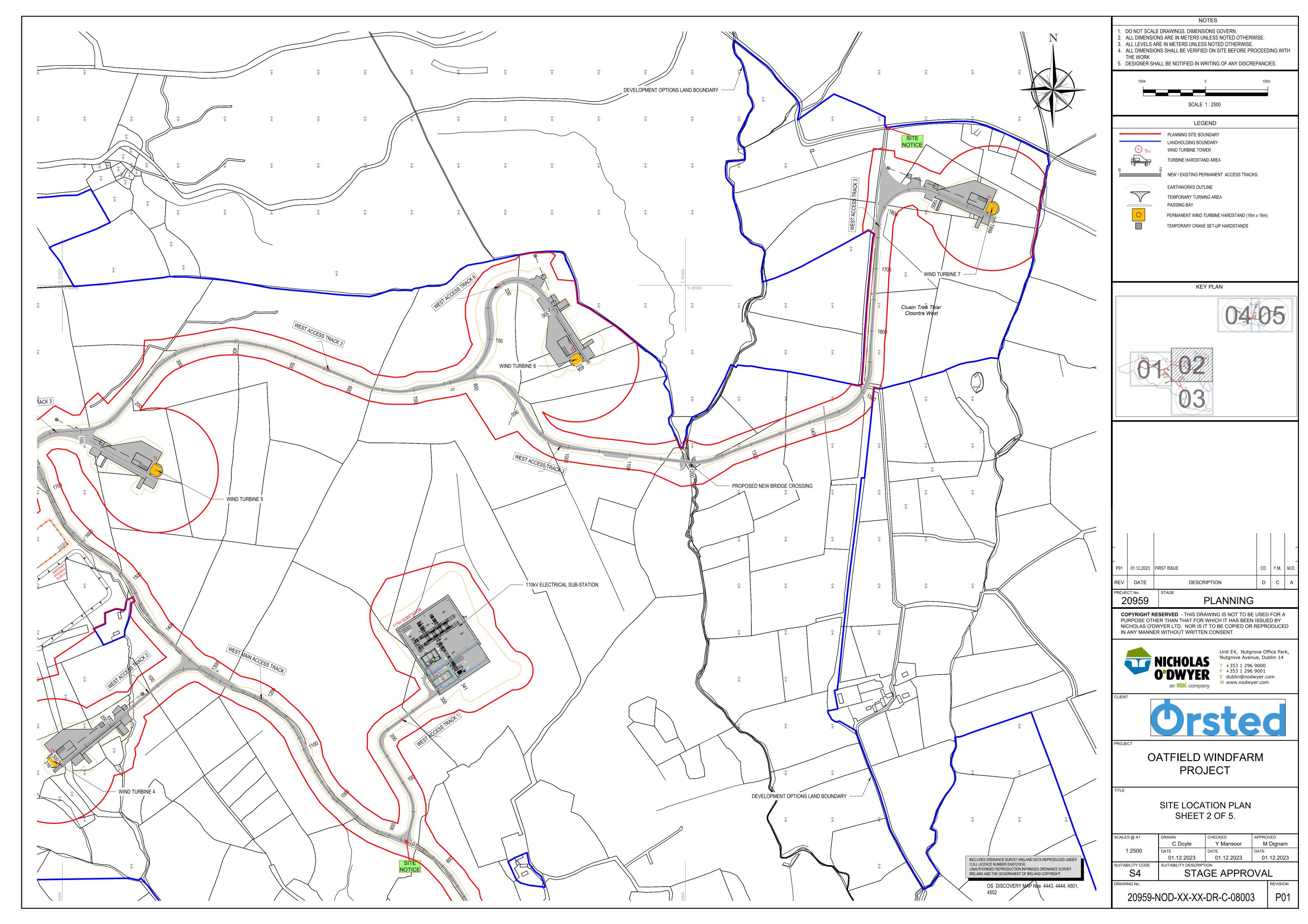


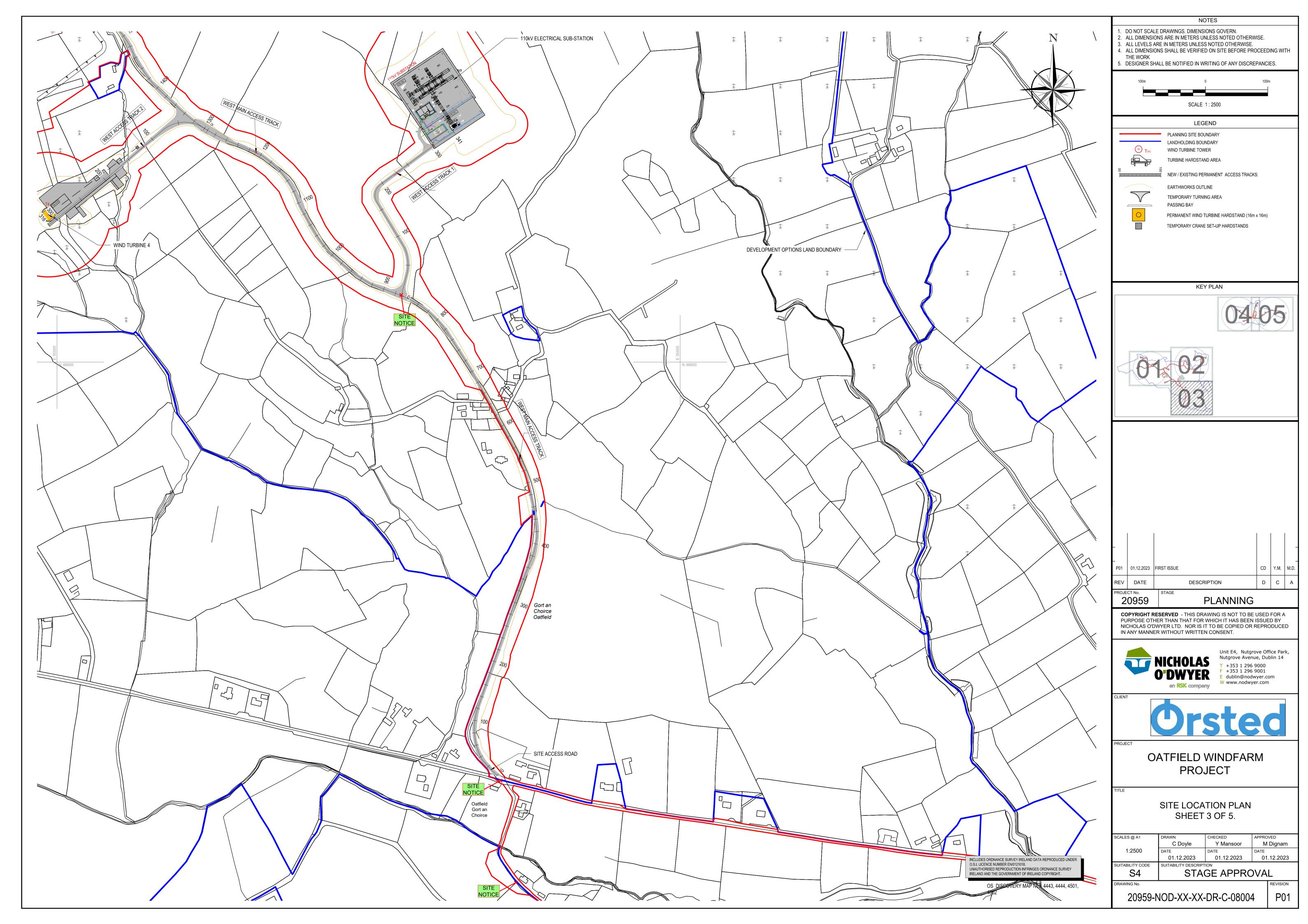


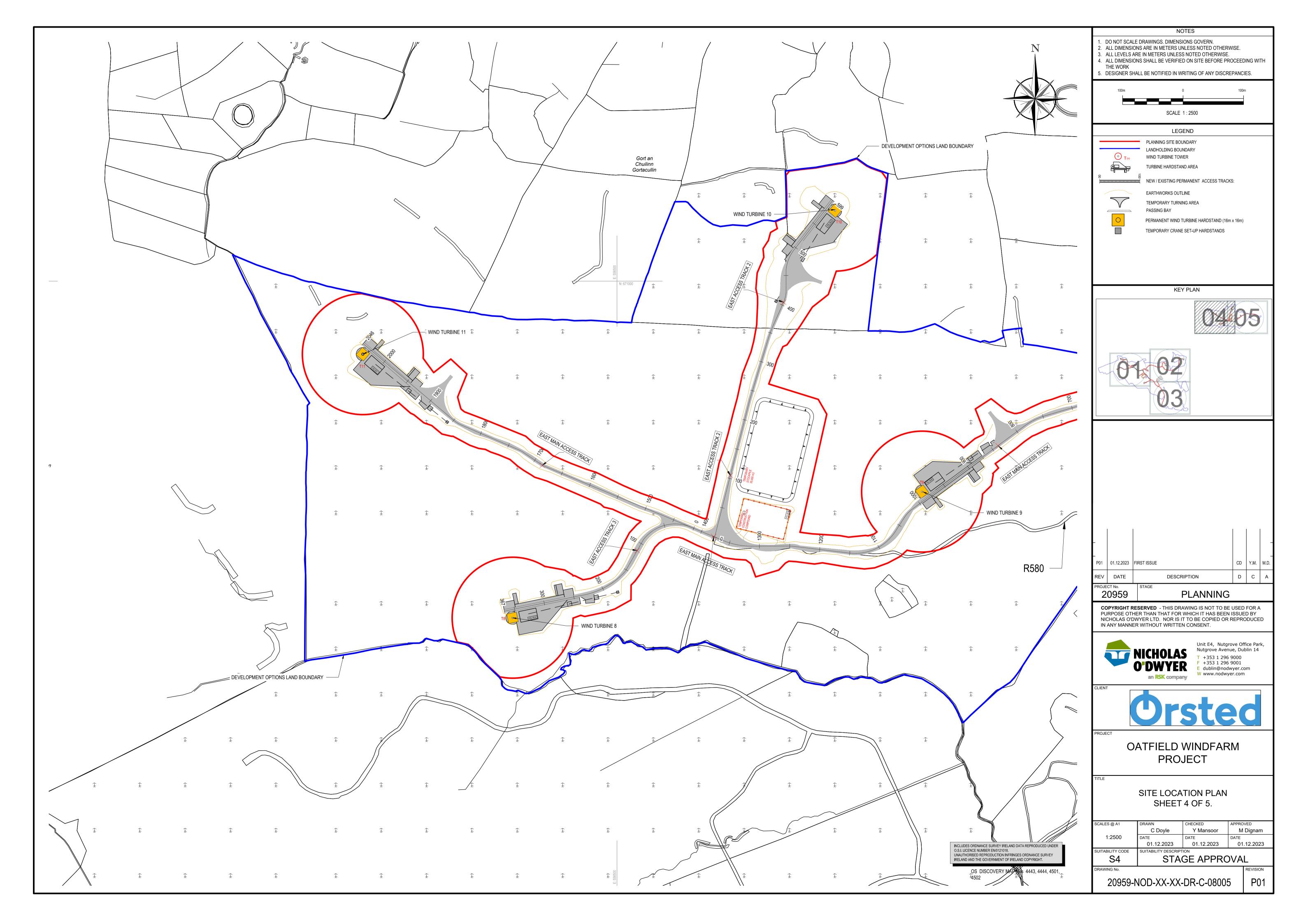


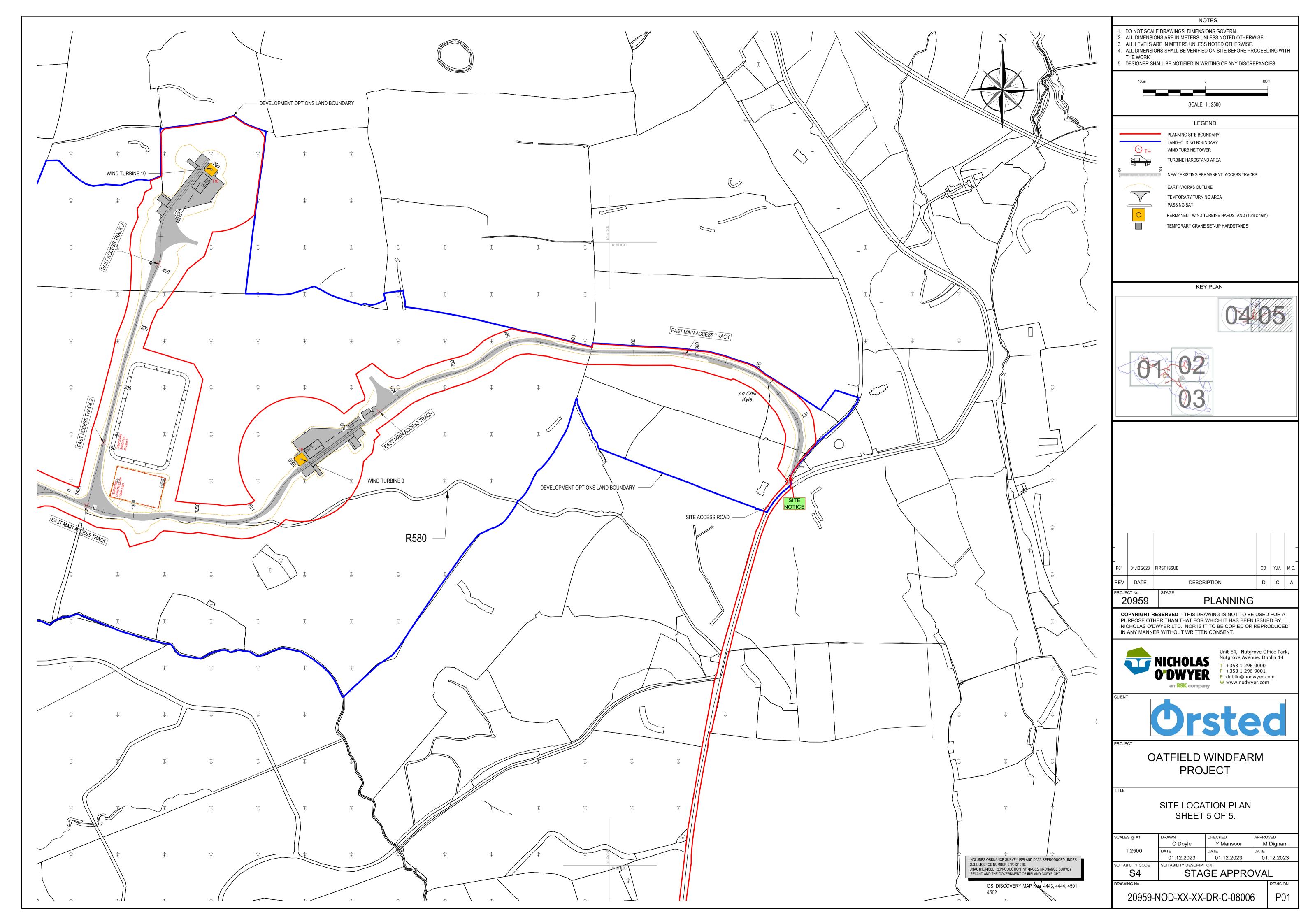


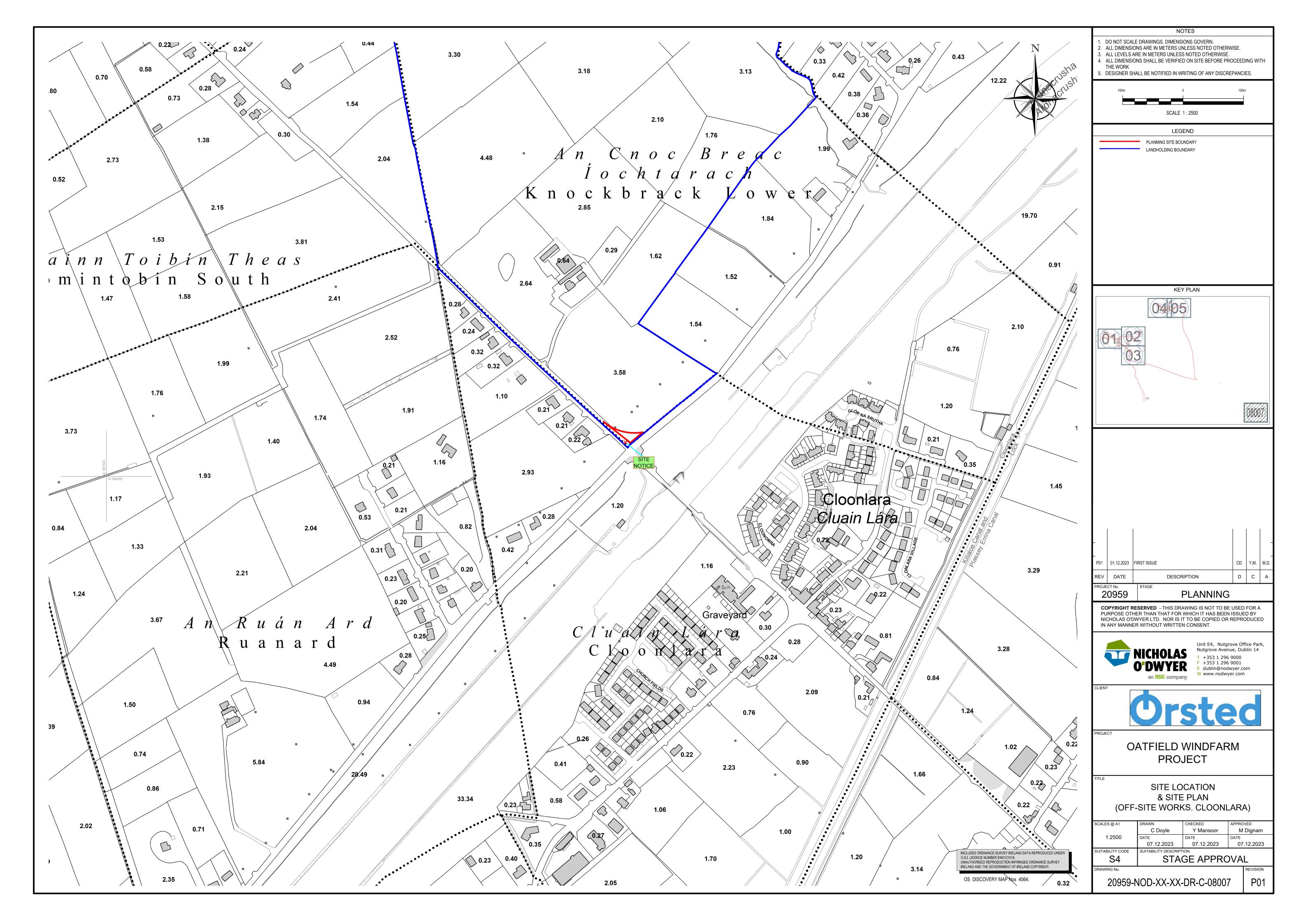


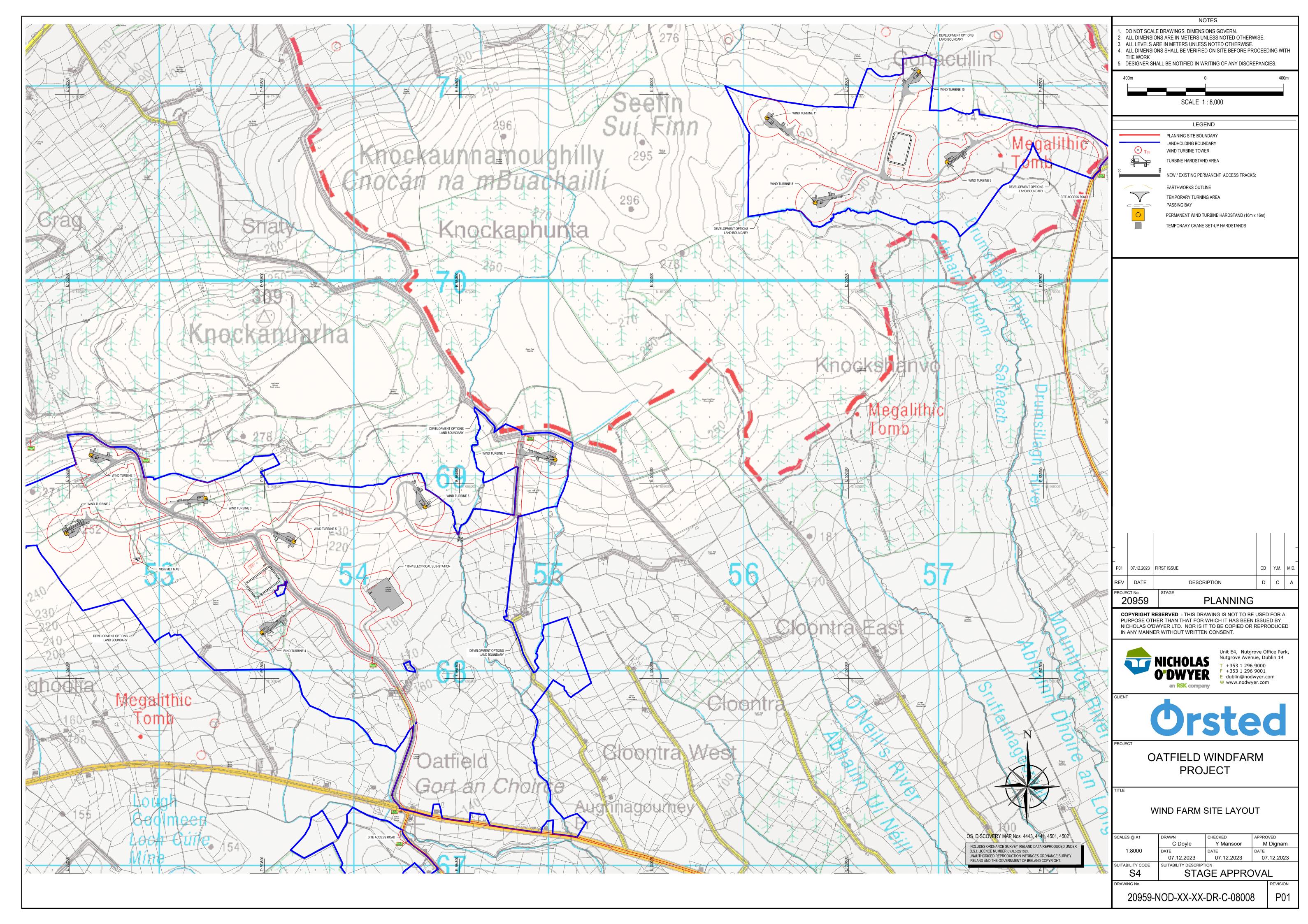


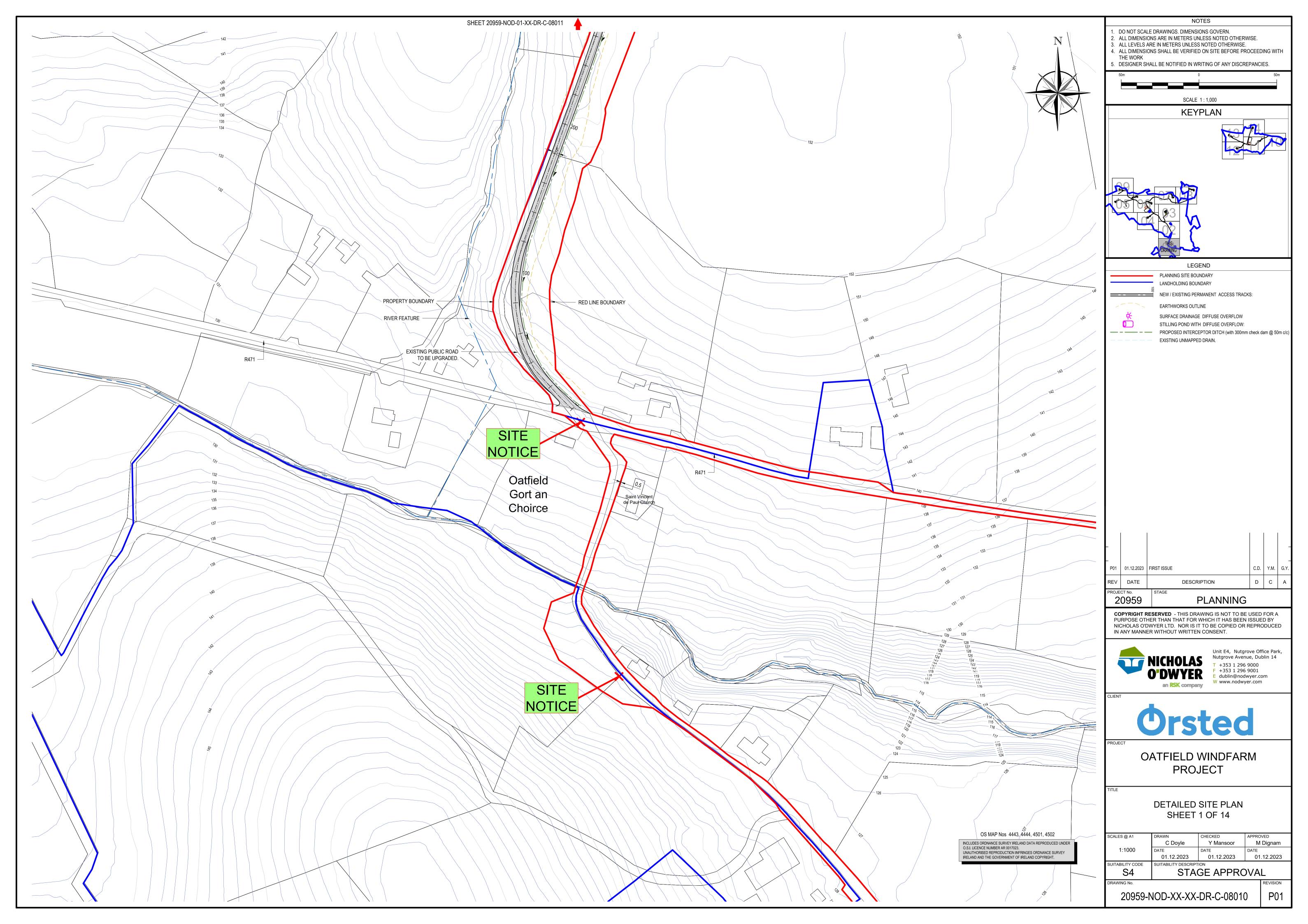


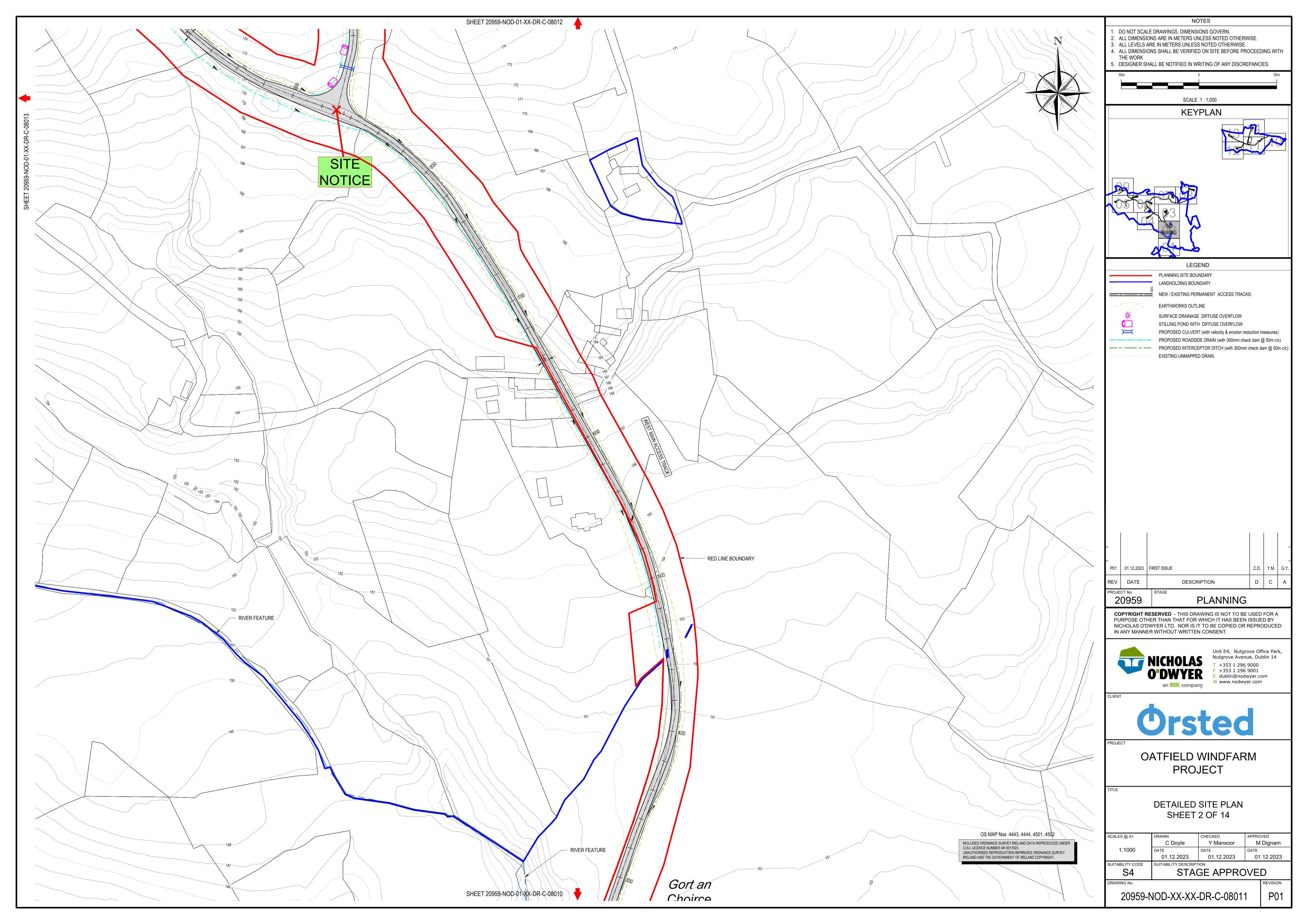


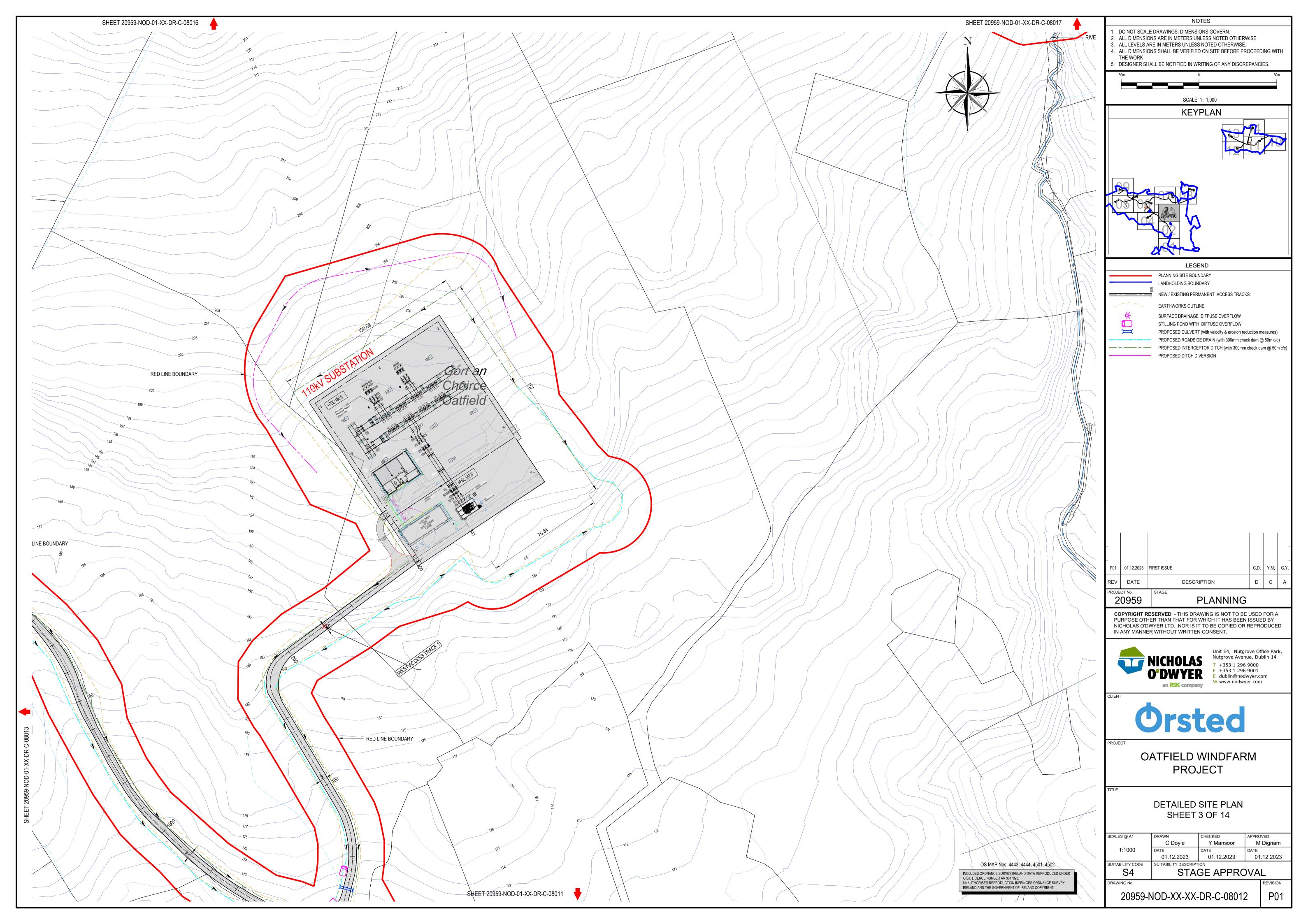


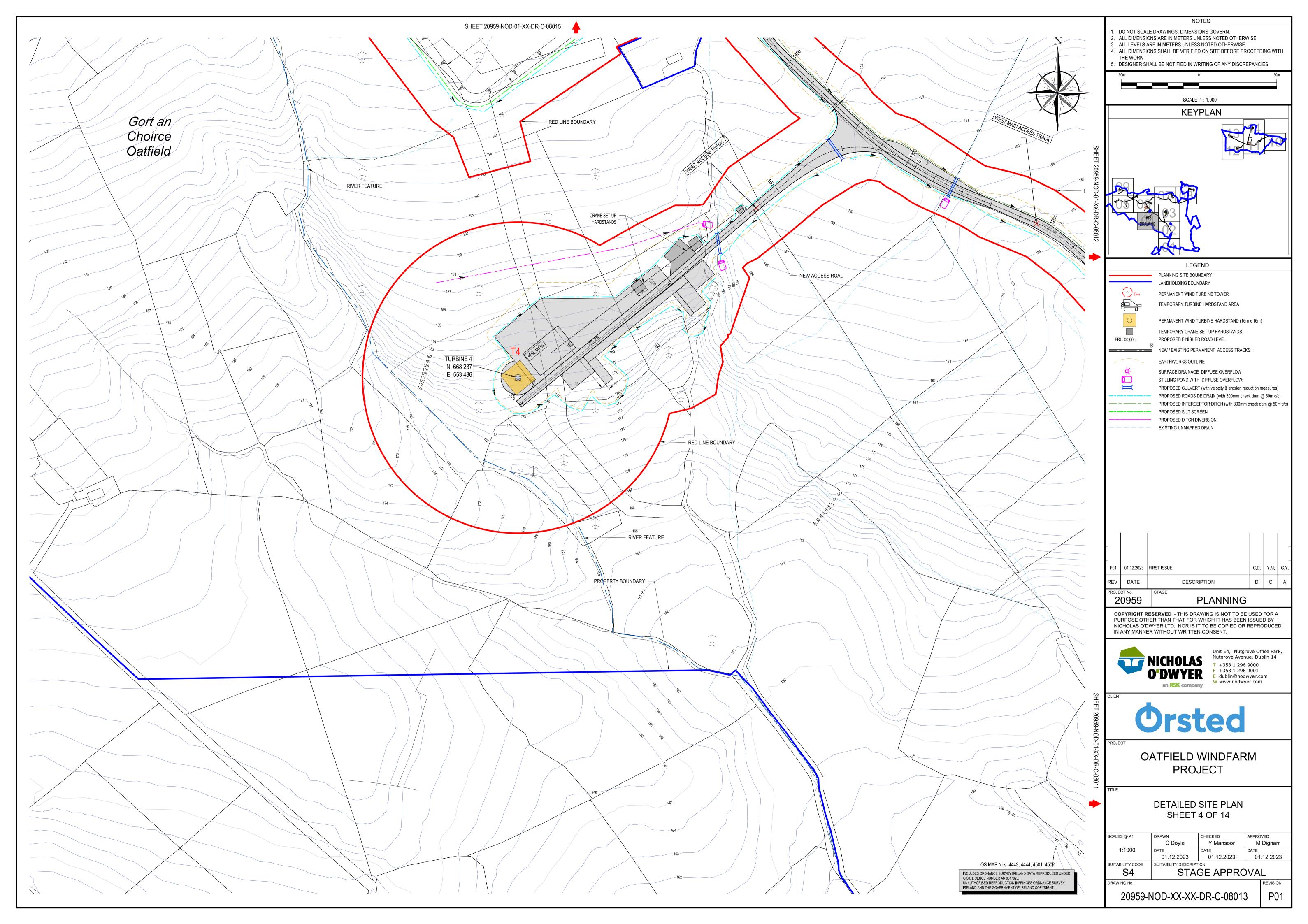


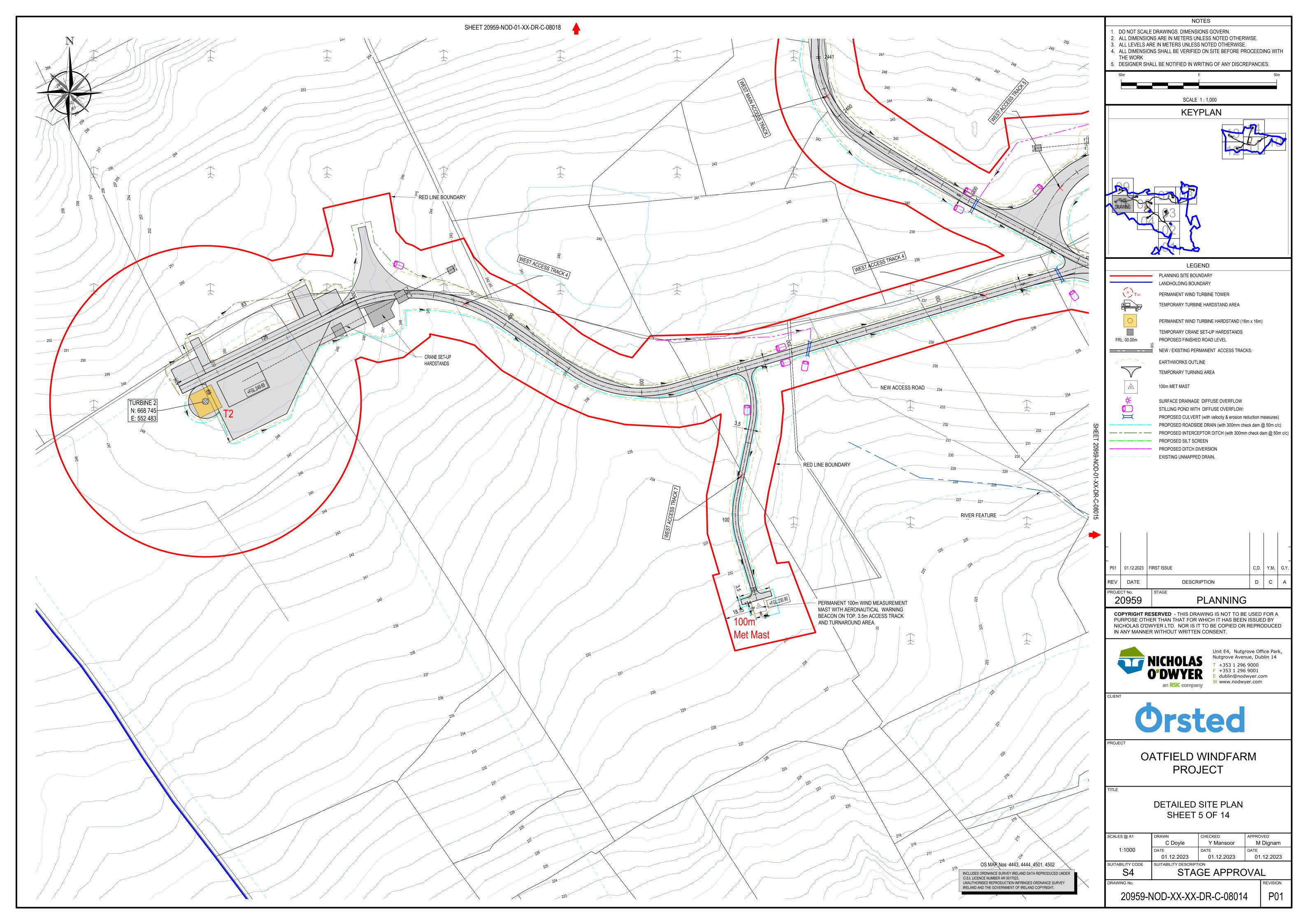


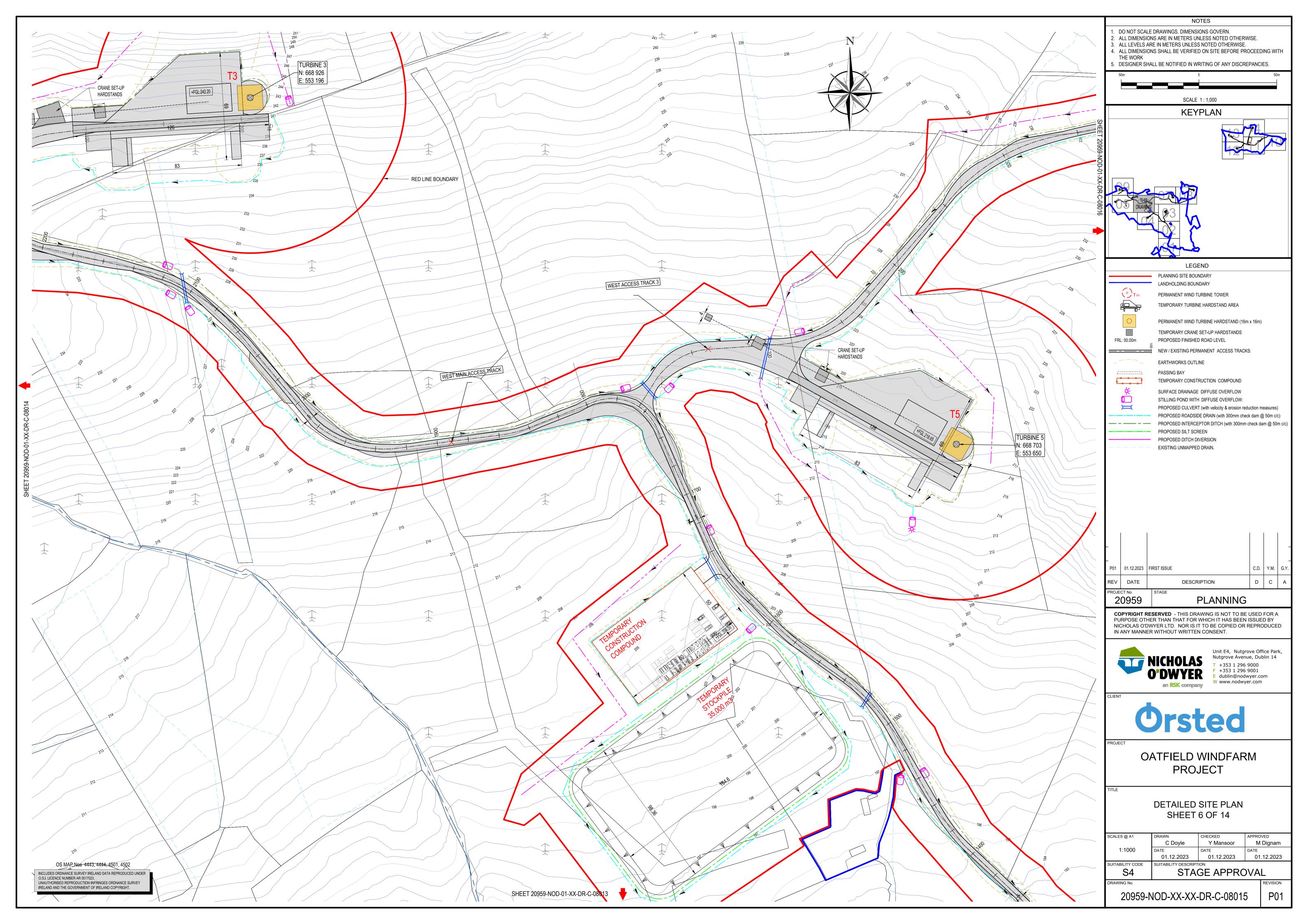


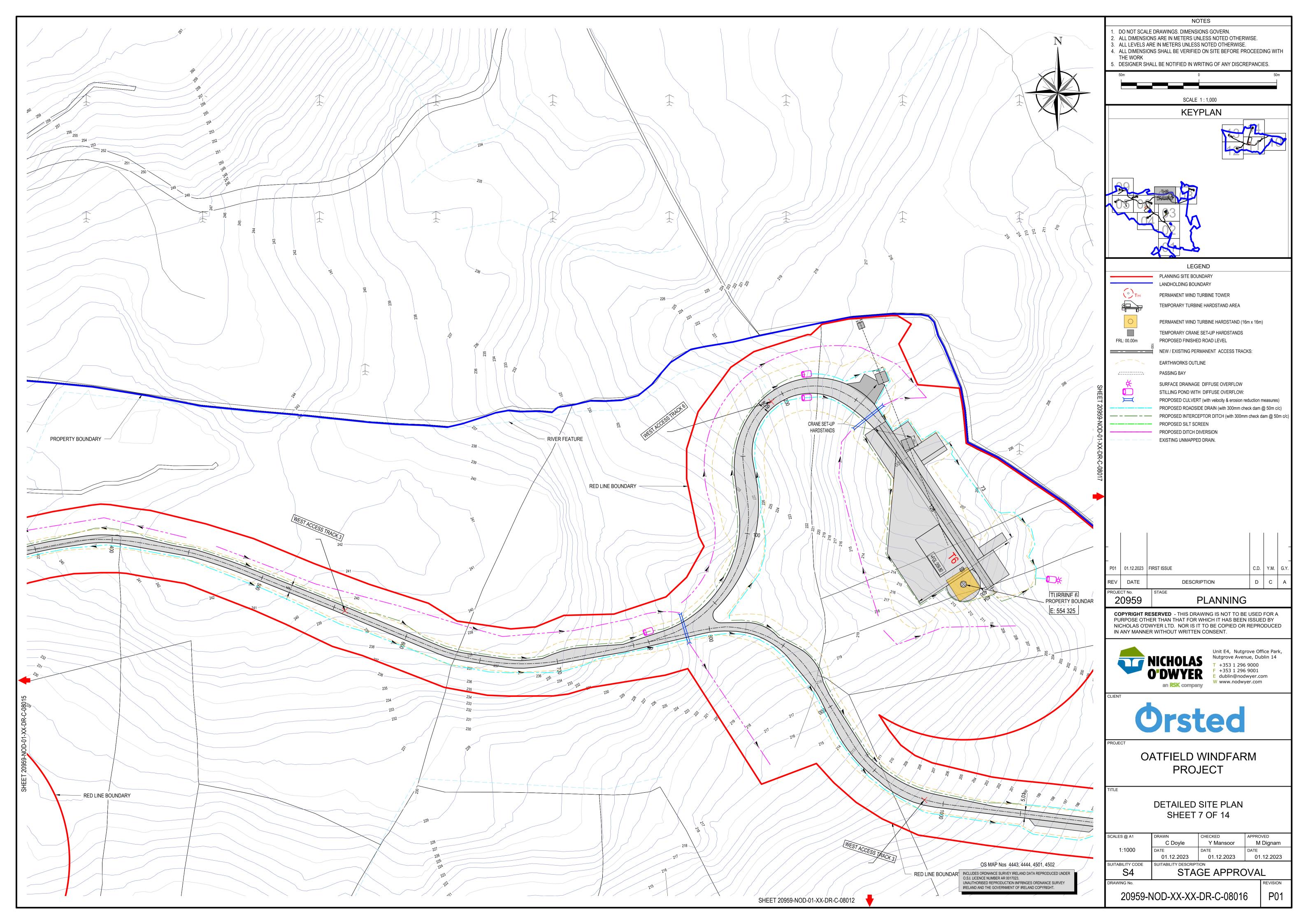


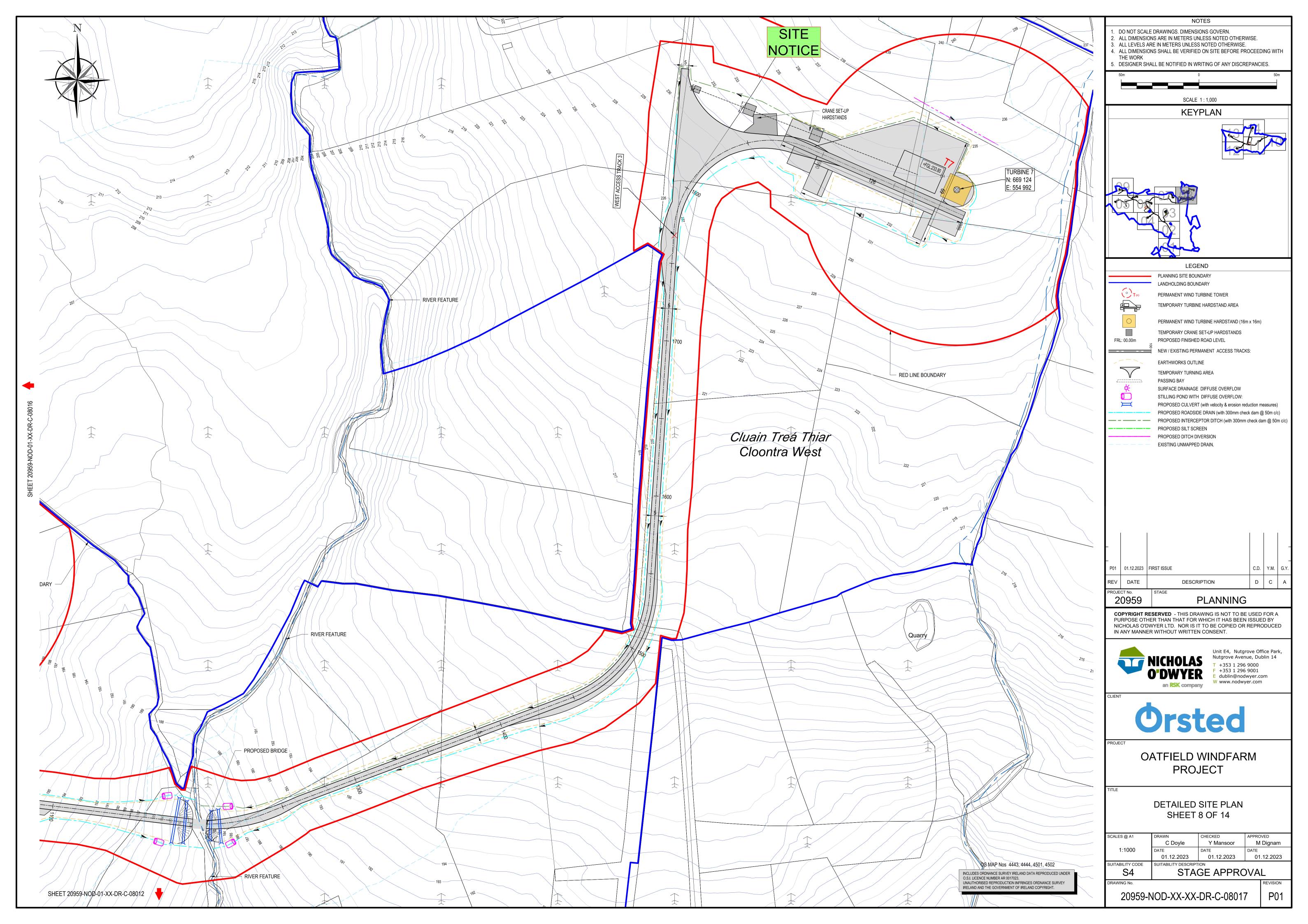


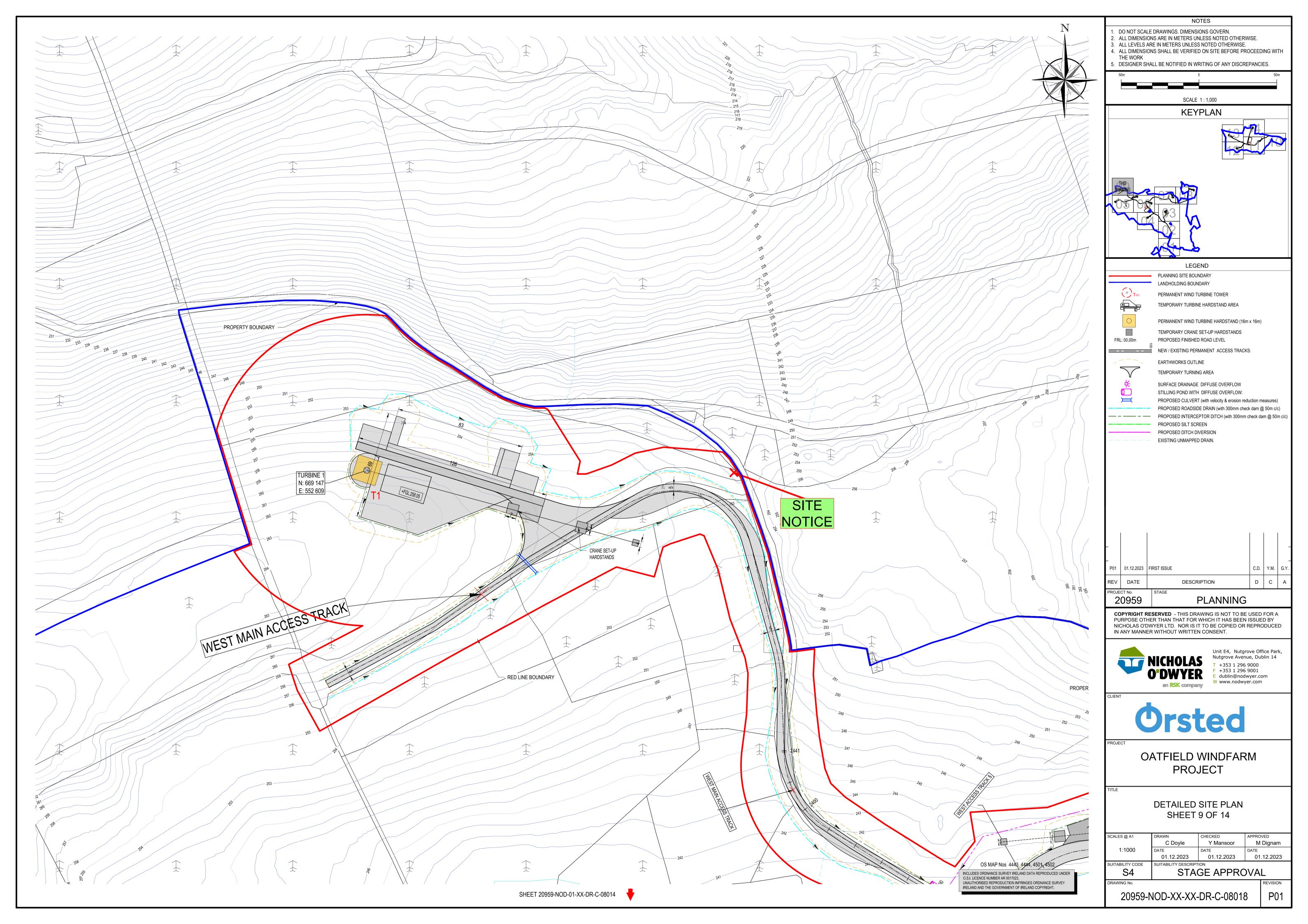


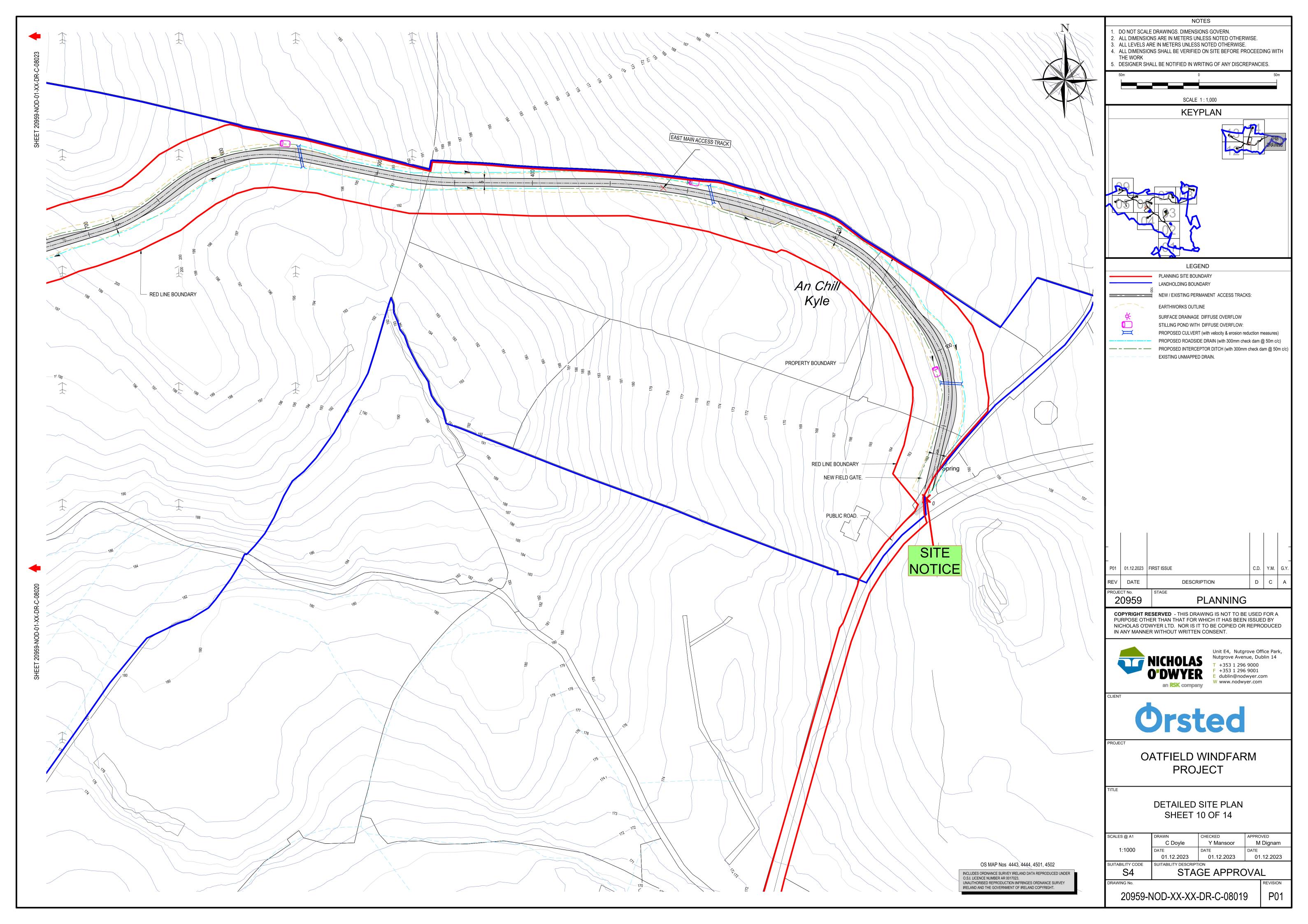


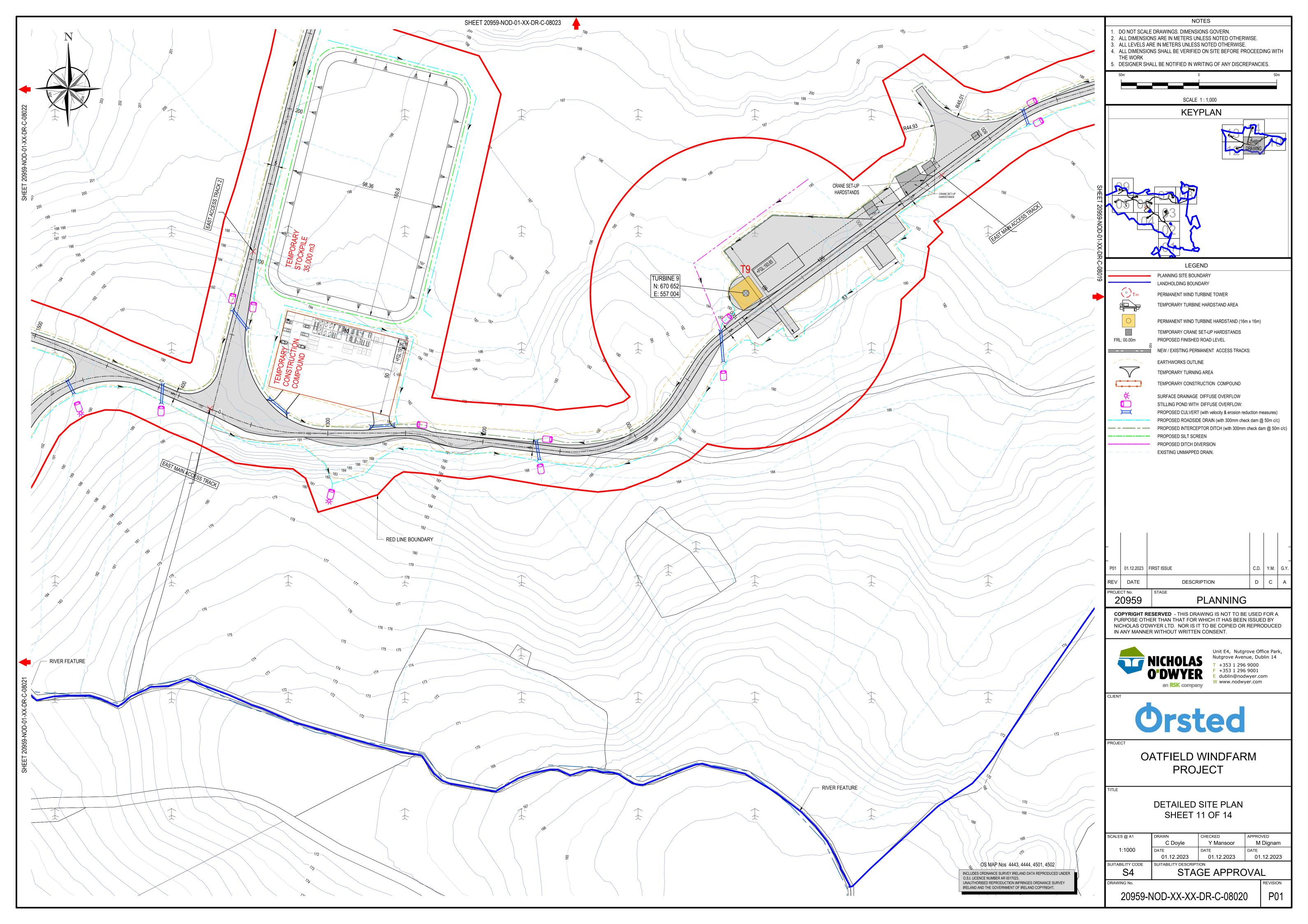


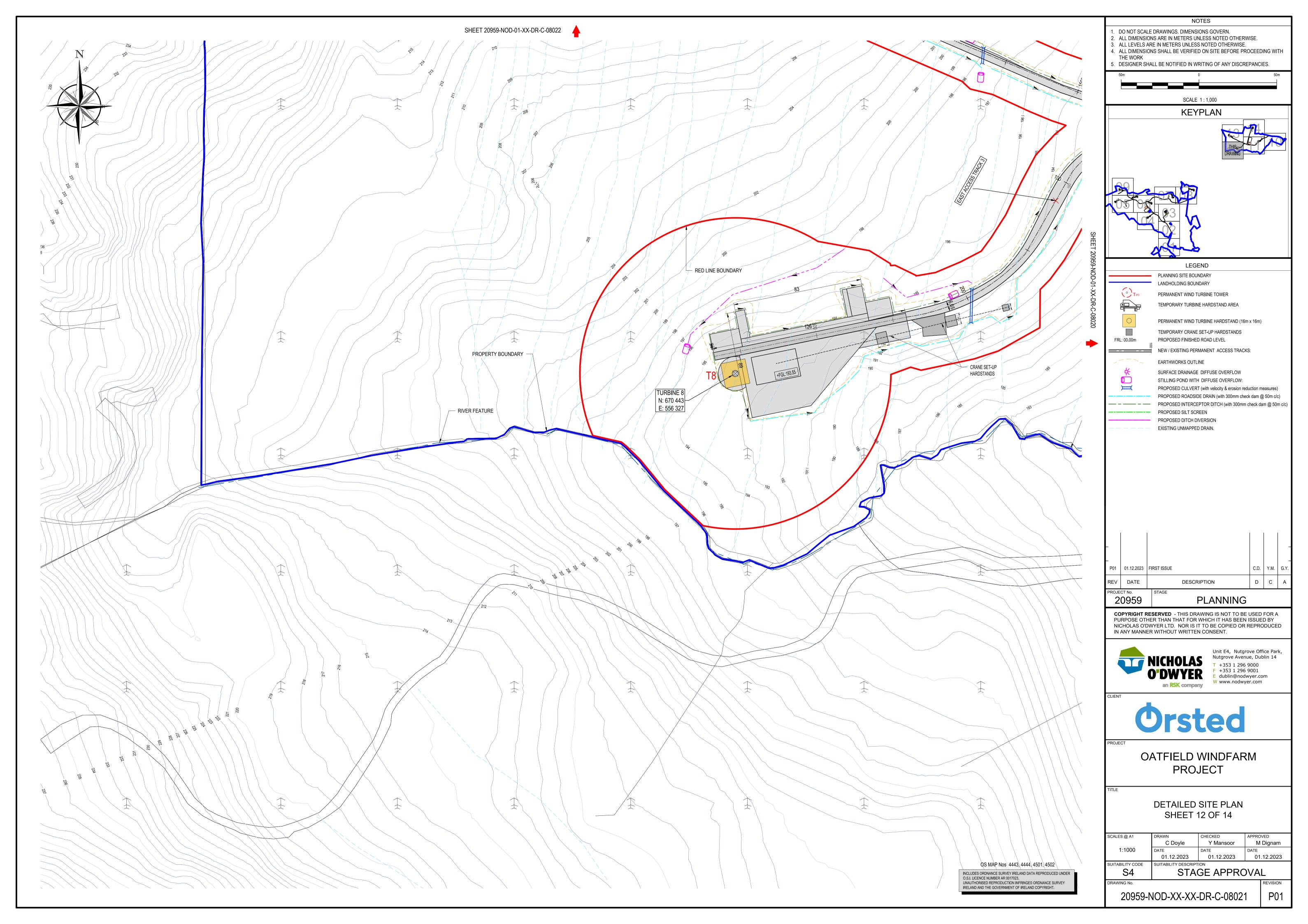


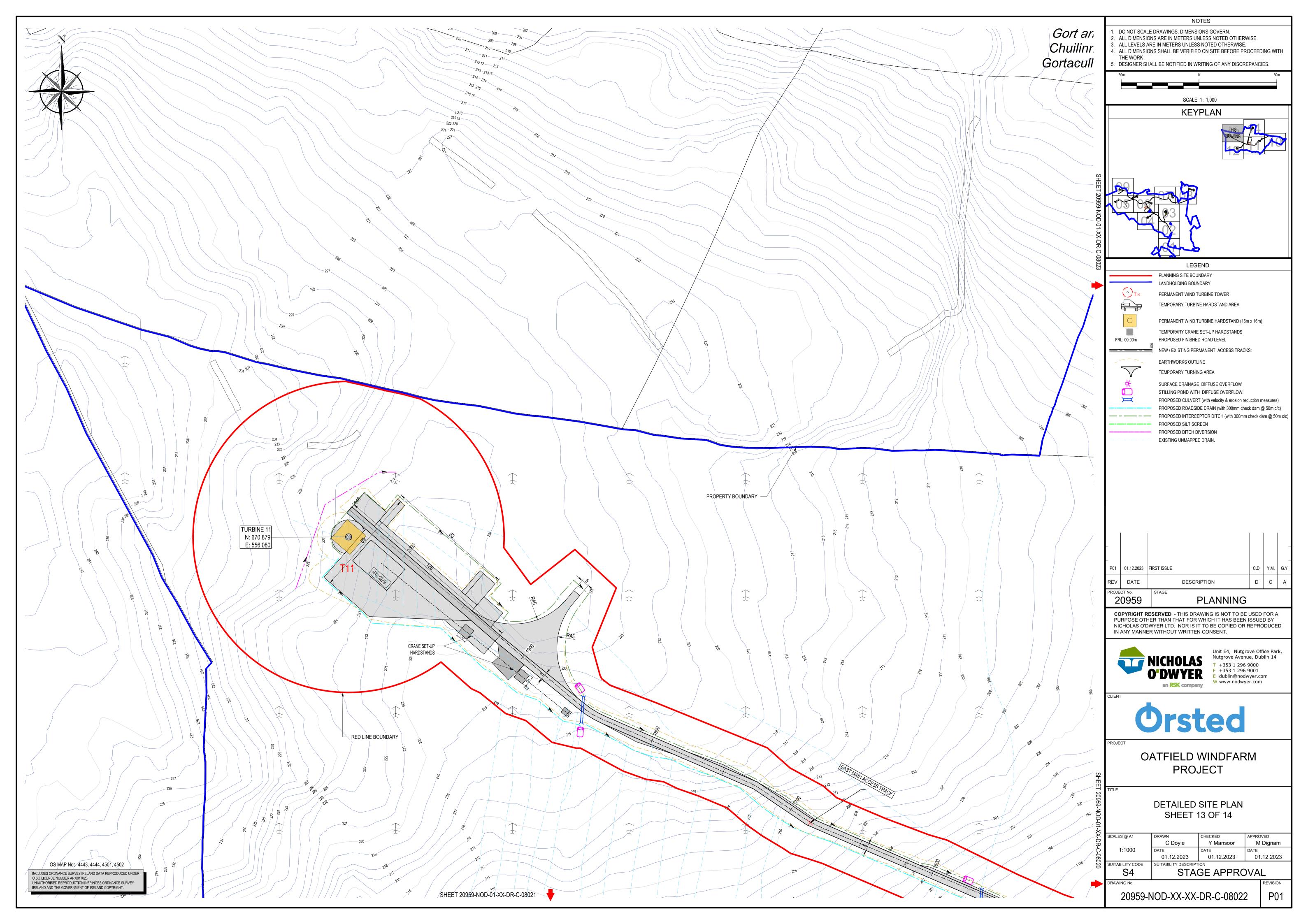


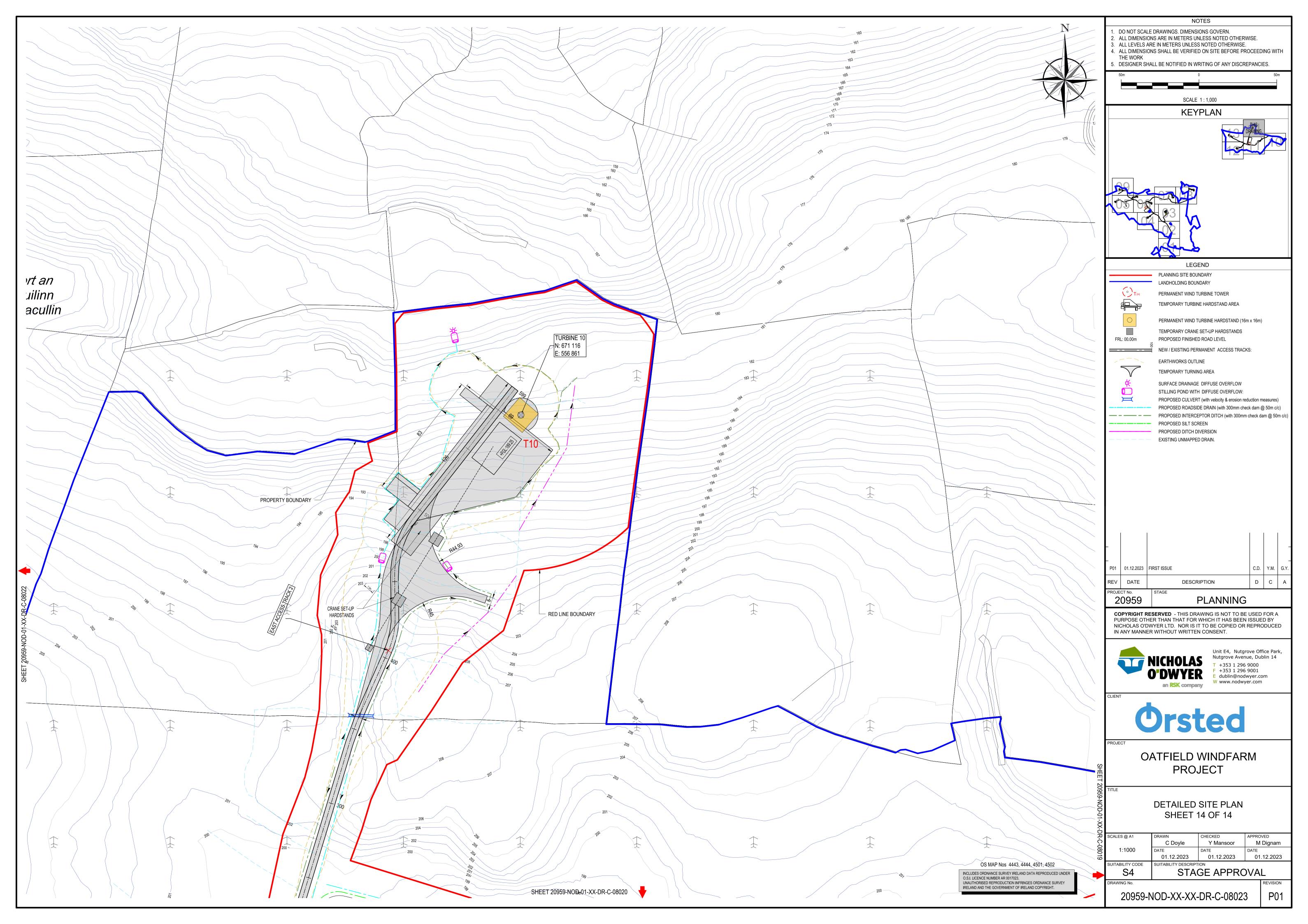


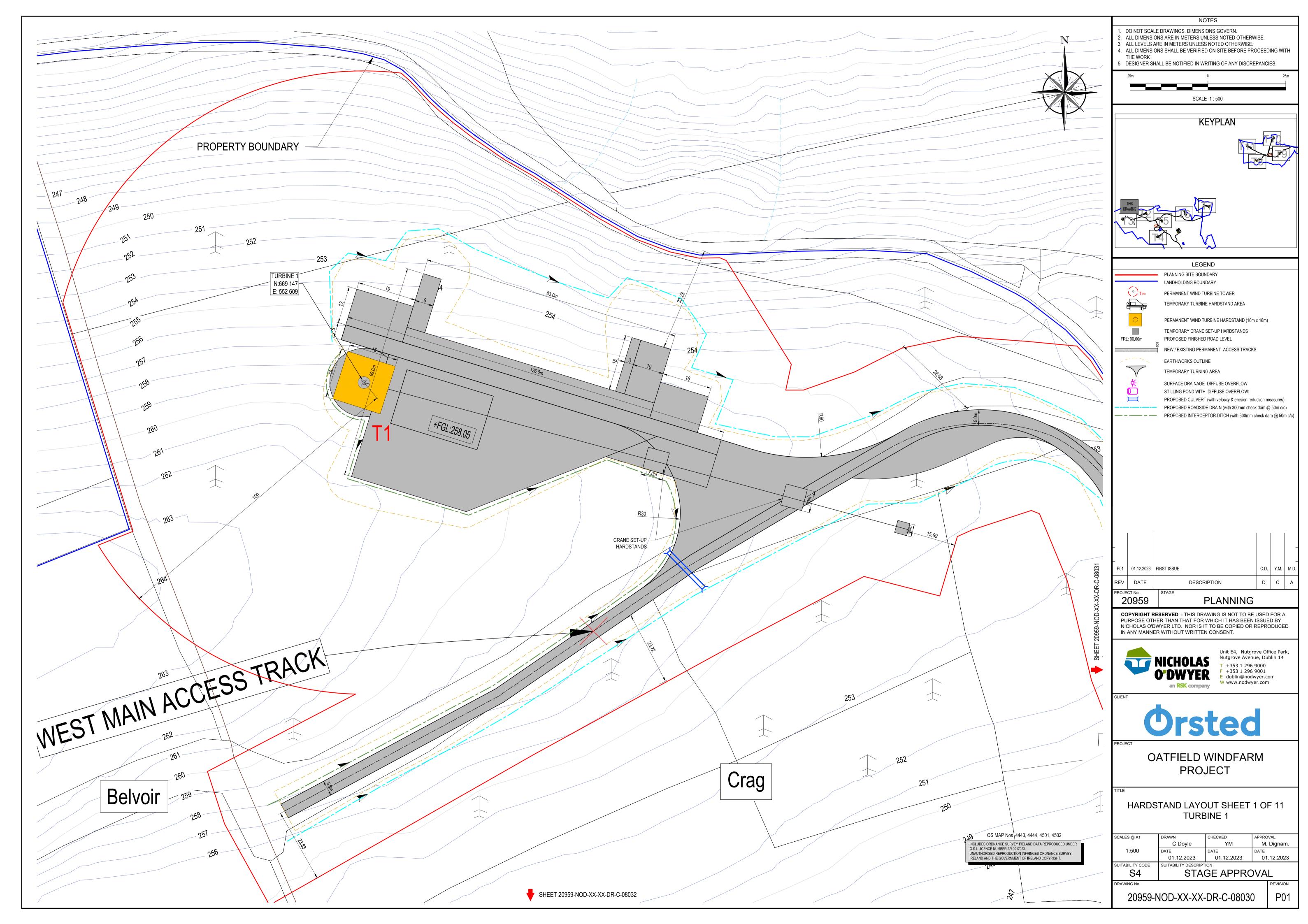


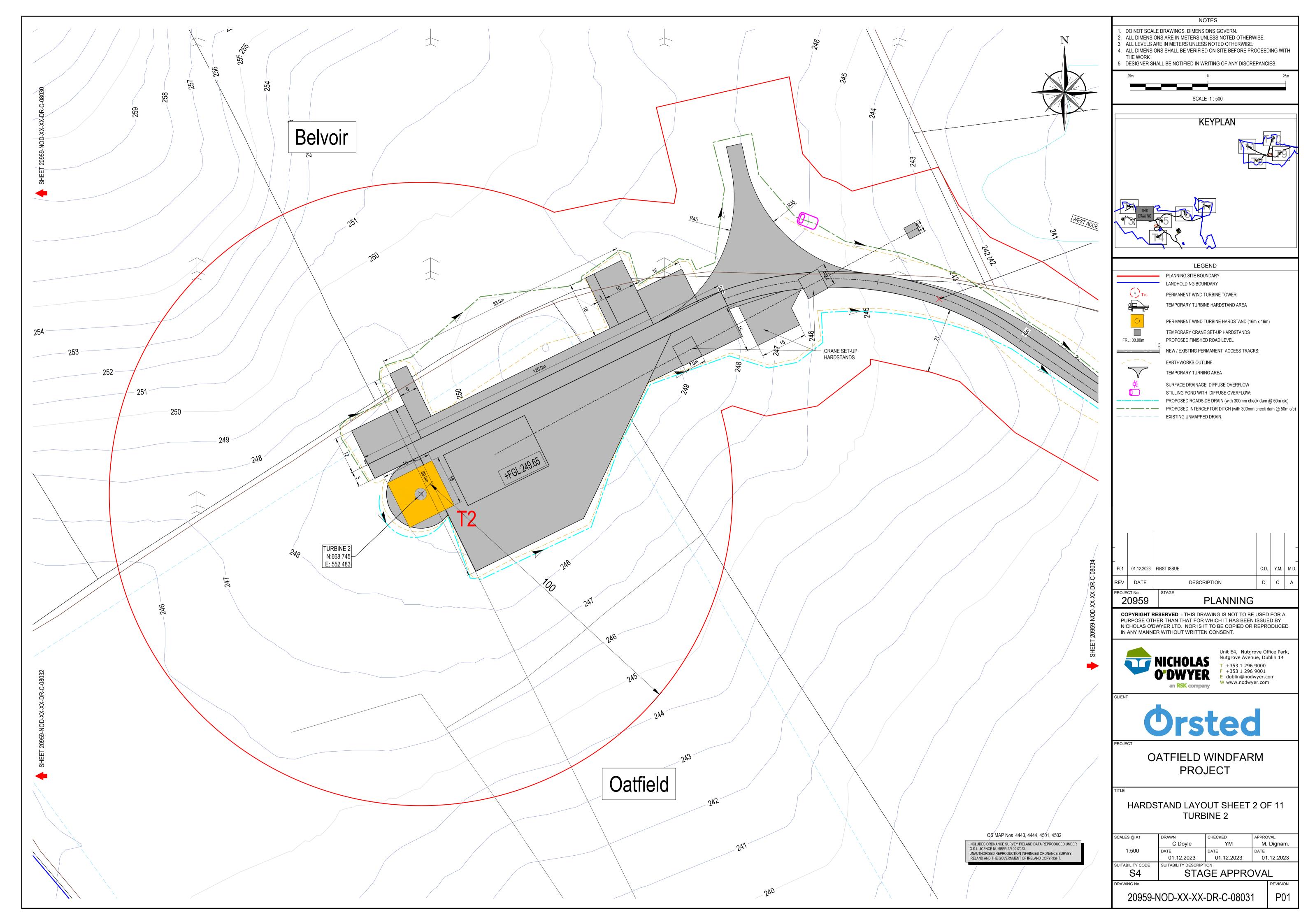


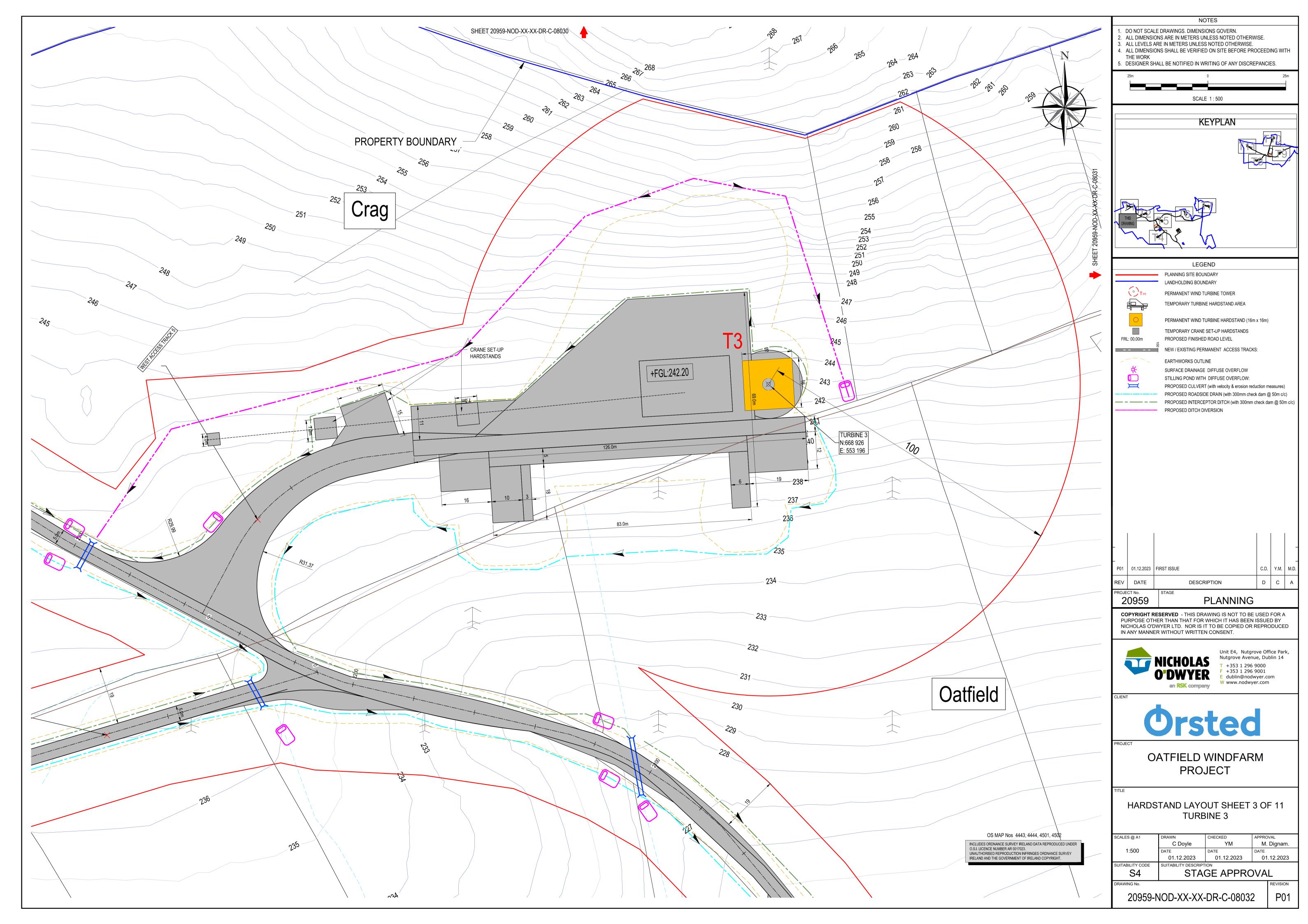


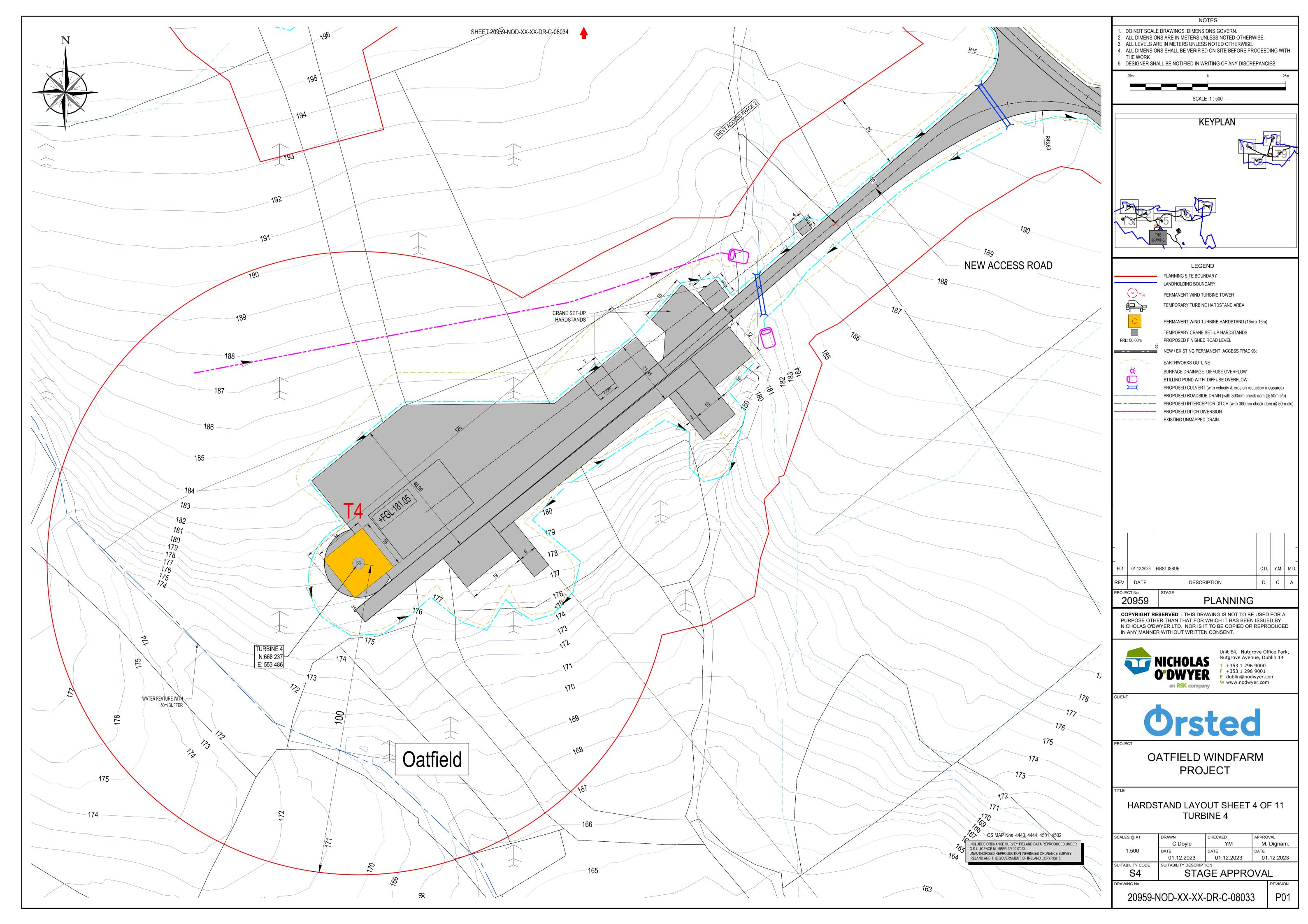


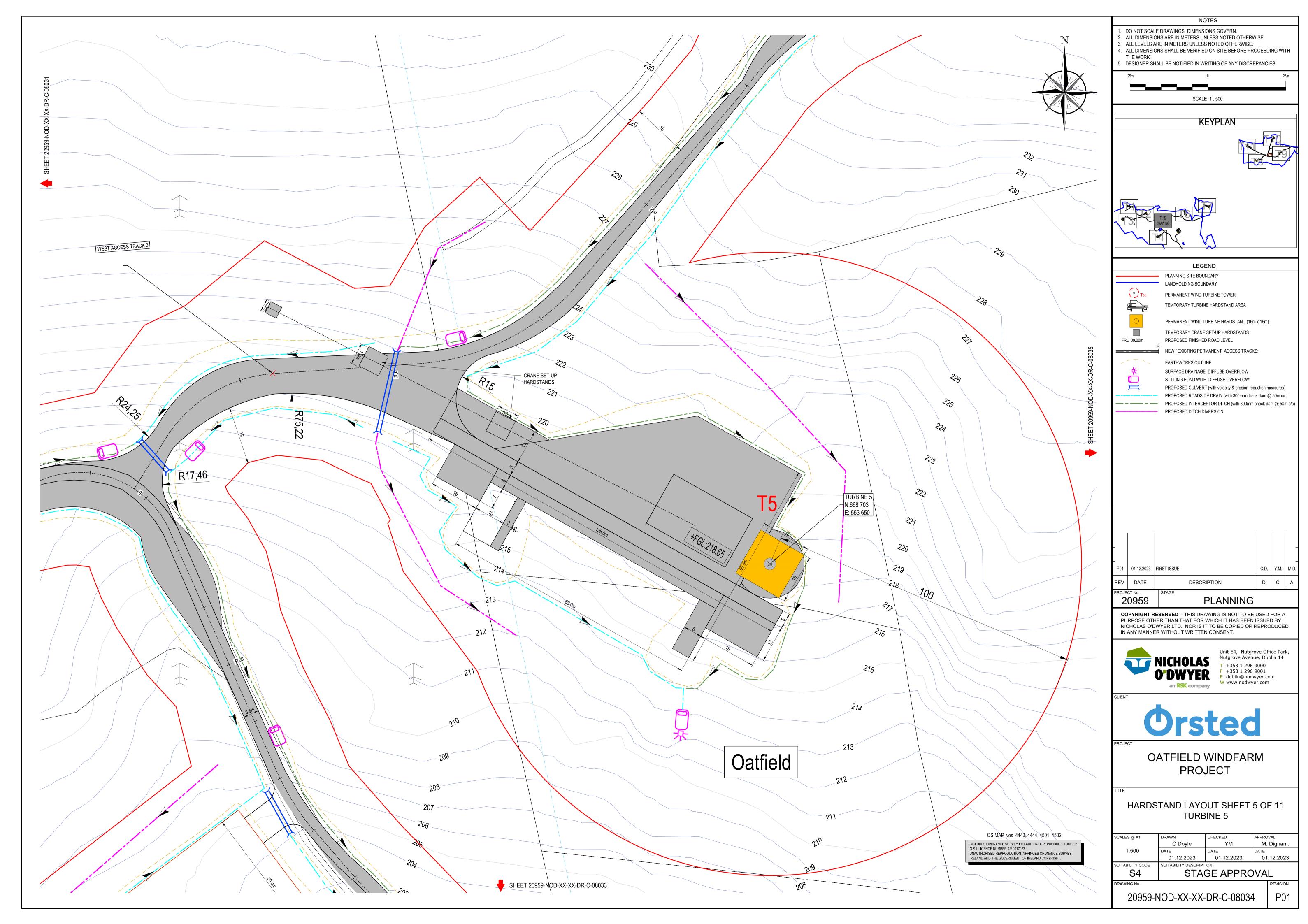


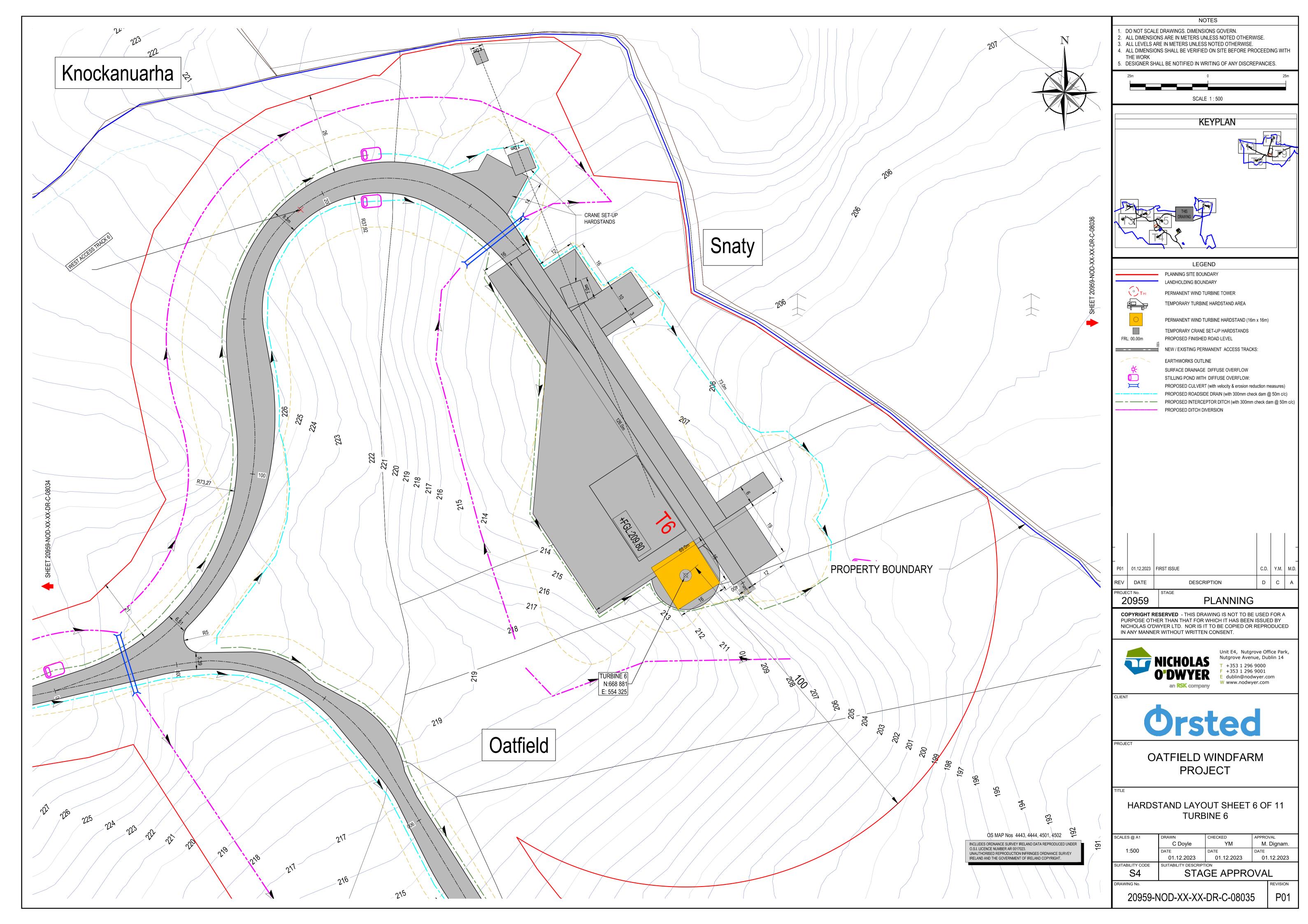


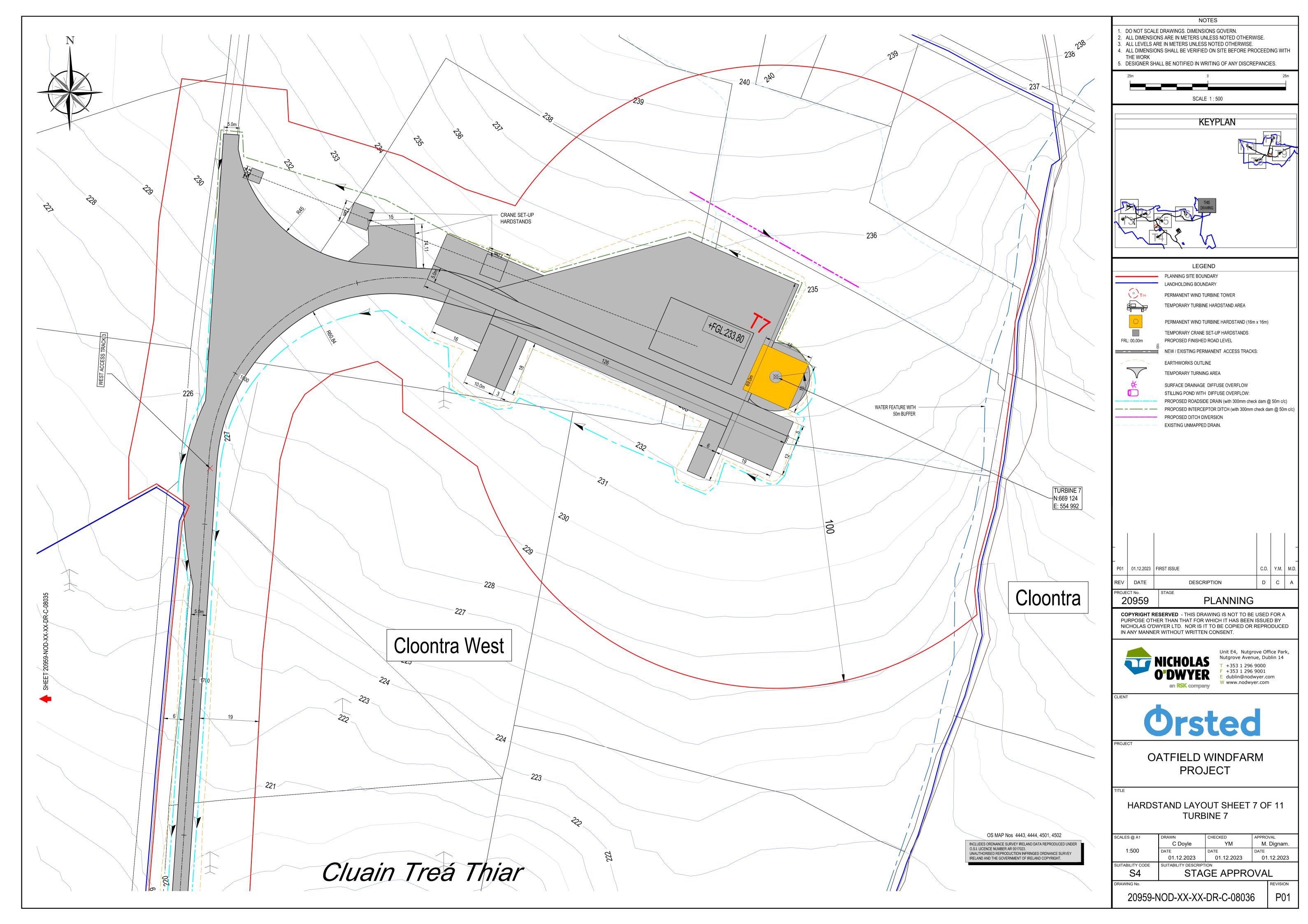


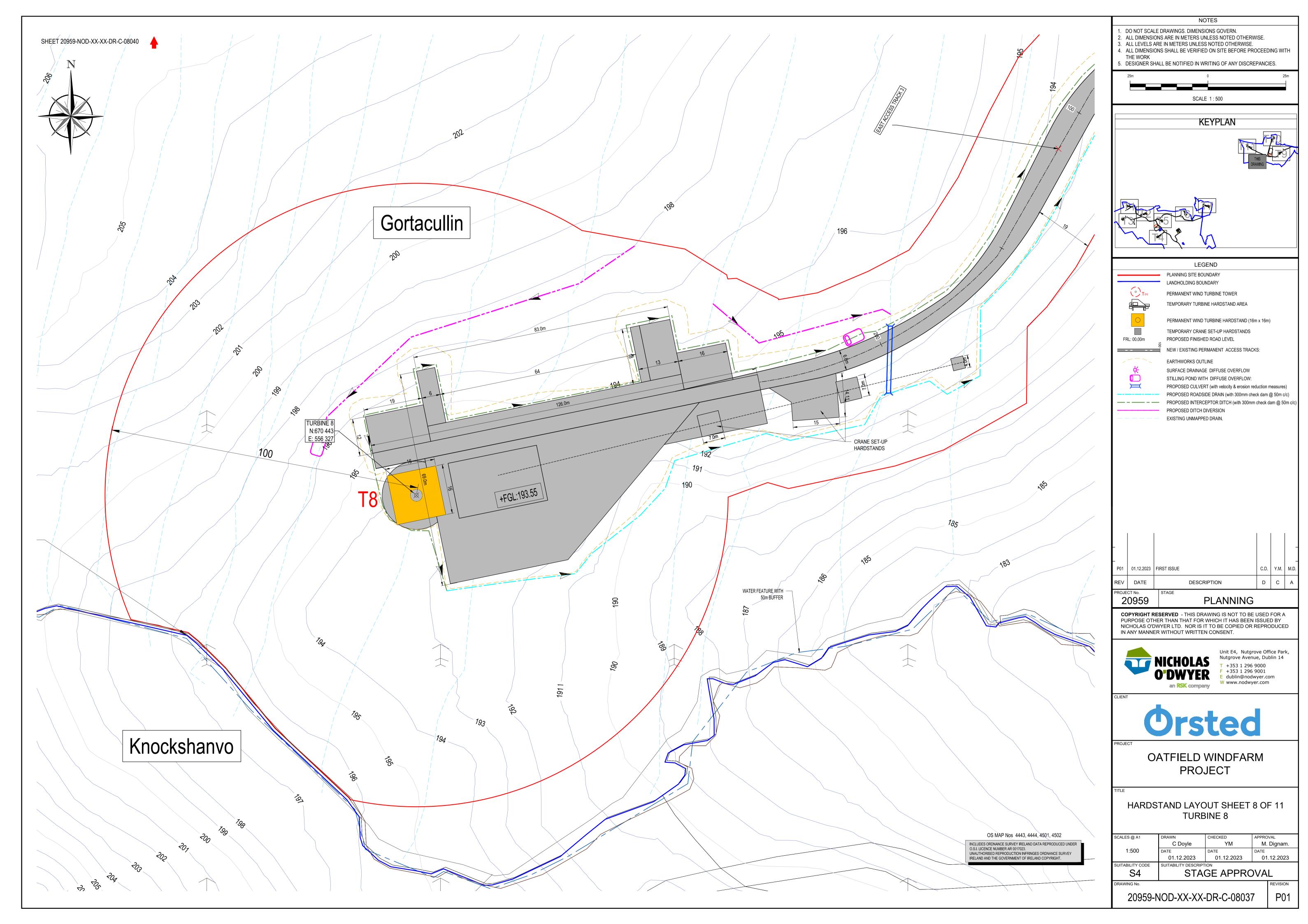


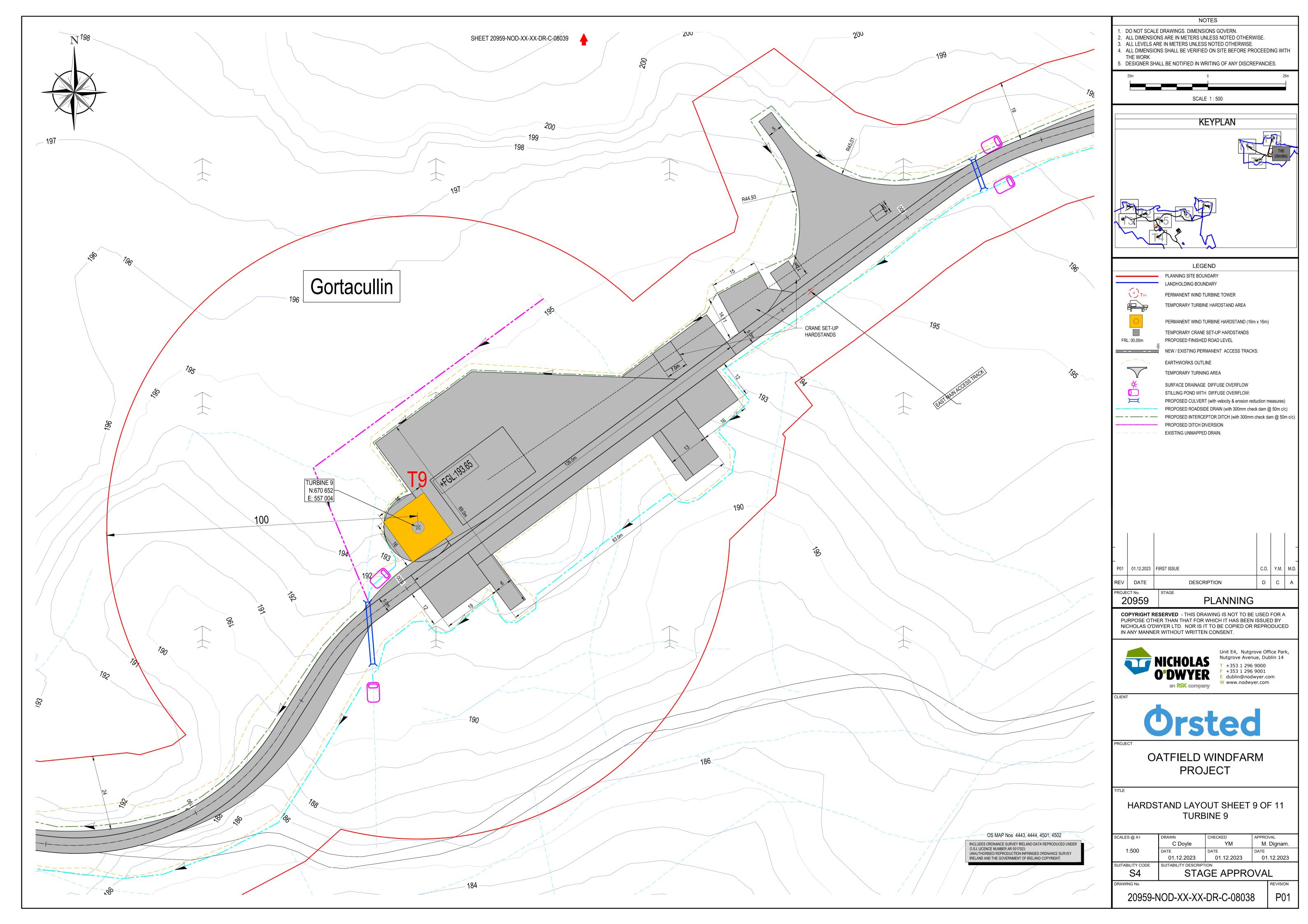


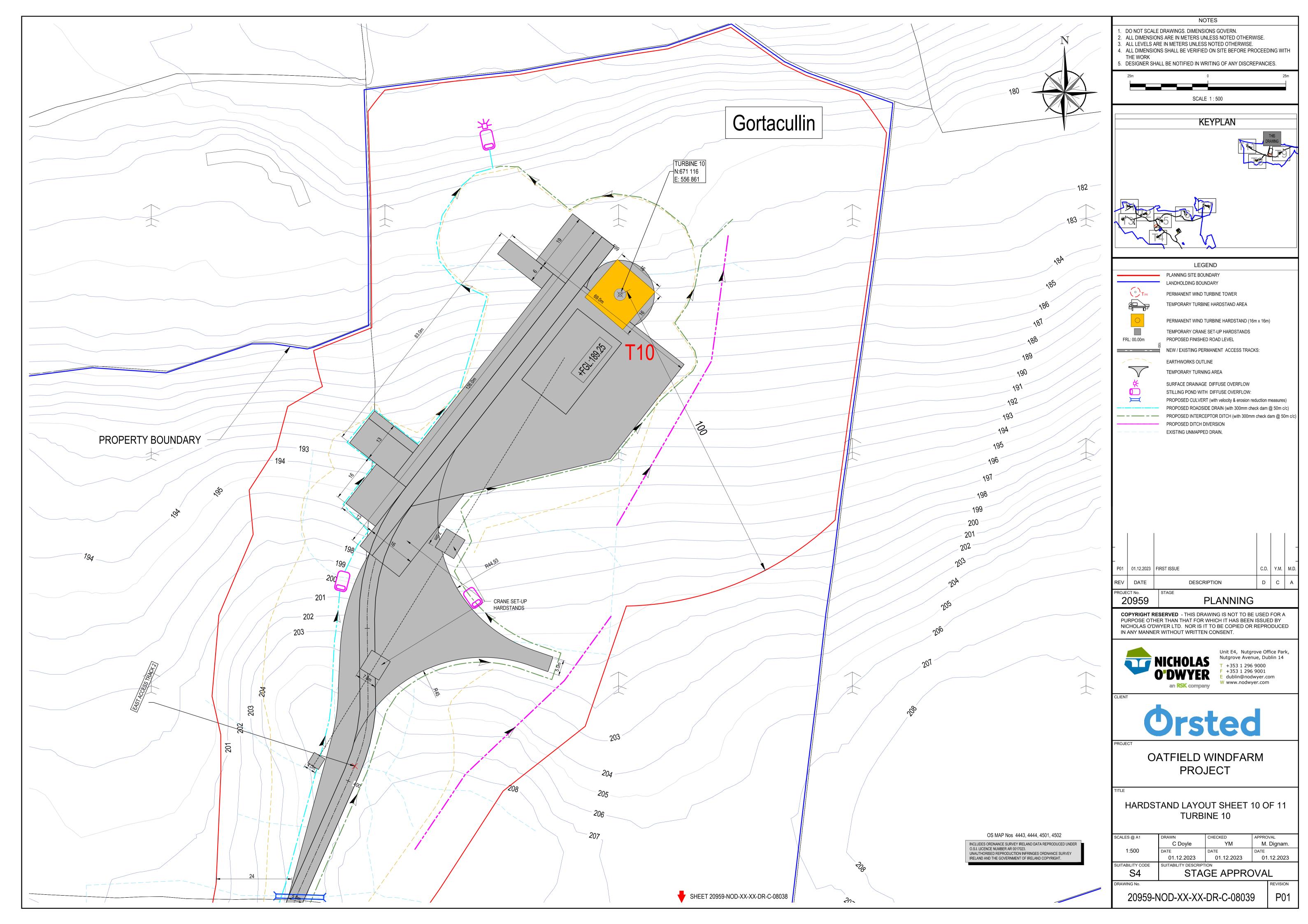


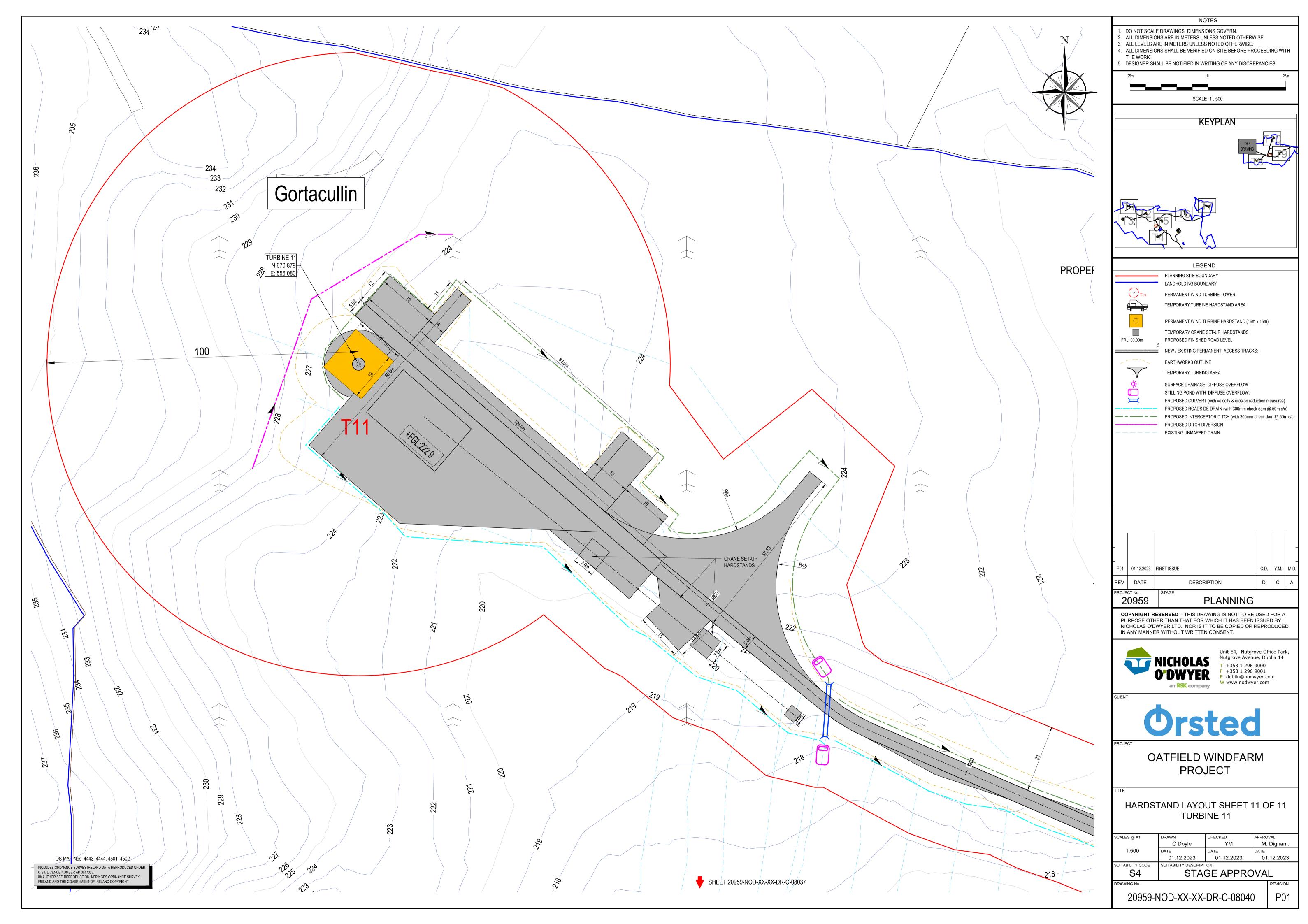


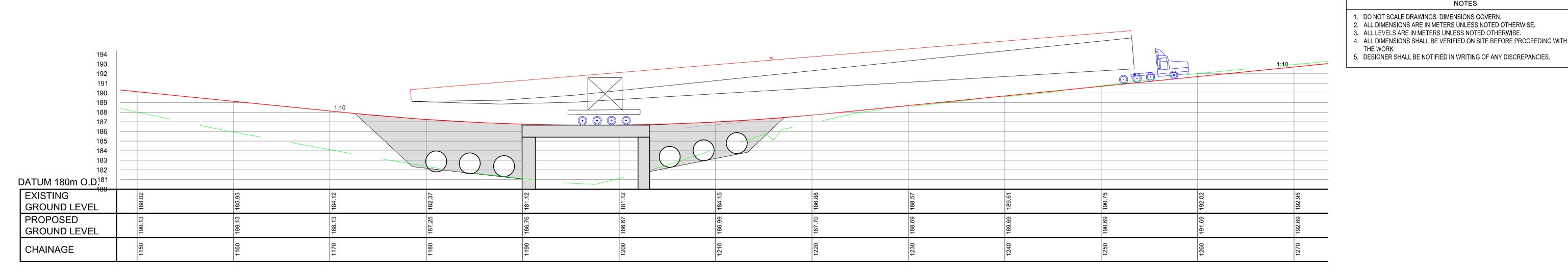






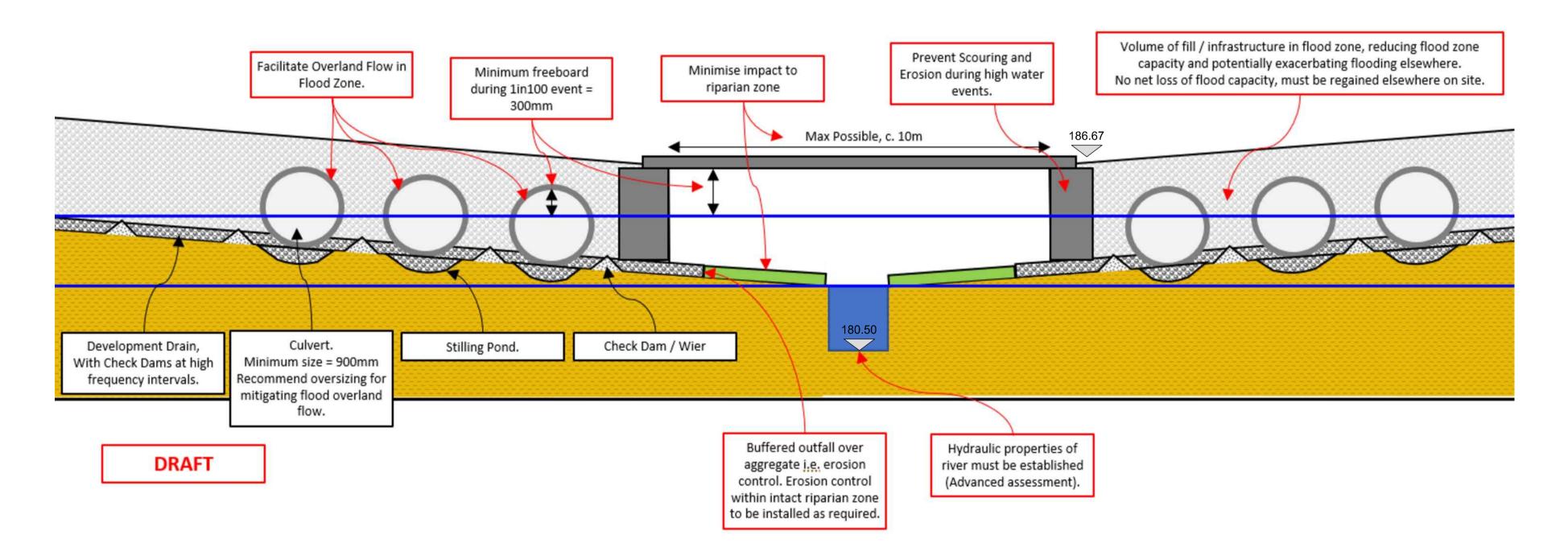




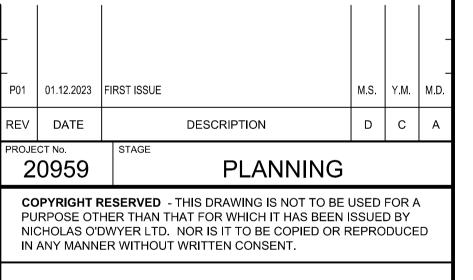


# **WEST ACCESS TRACK 3 - Longitudnal Section**

V Scale: 1:200 H Scale: 1:200



TYPICAL SINGLE SPAN BRIDGE SECTION.



NOTES

5. DESIGNER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

1. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.



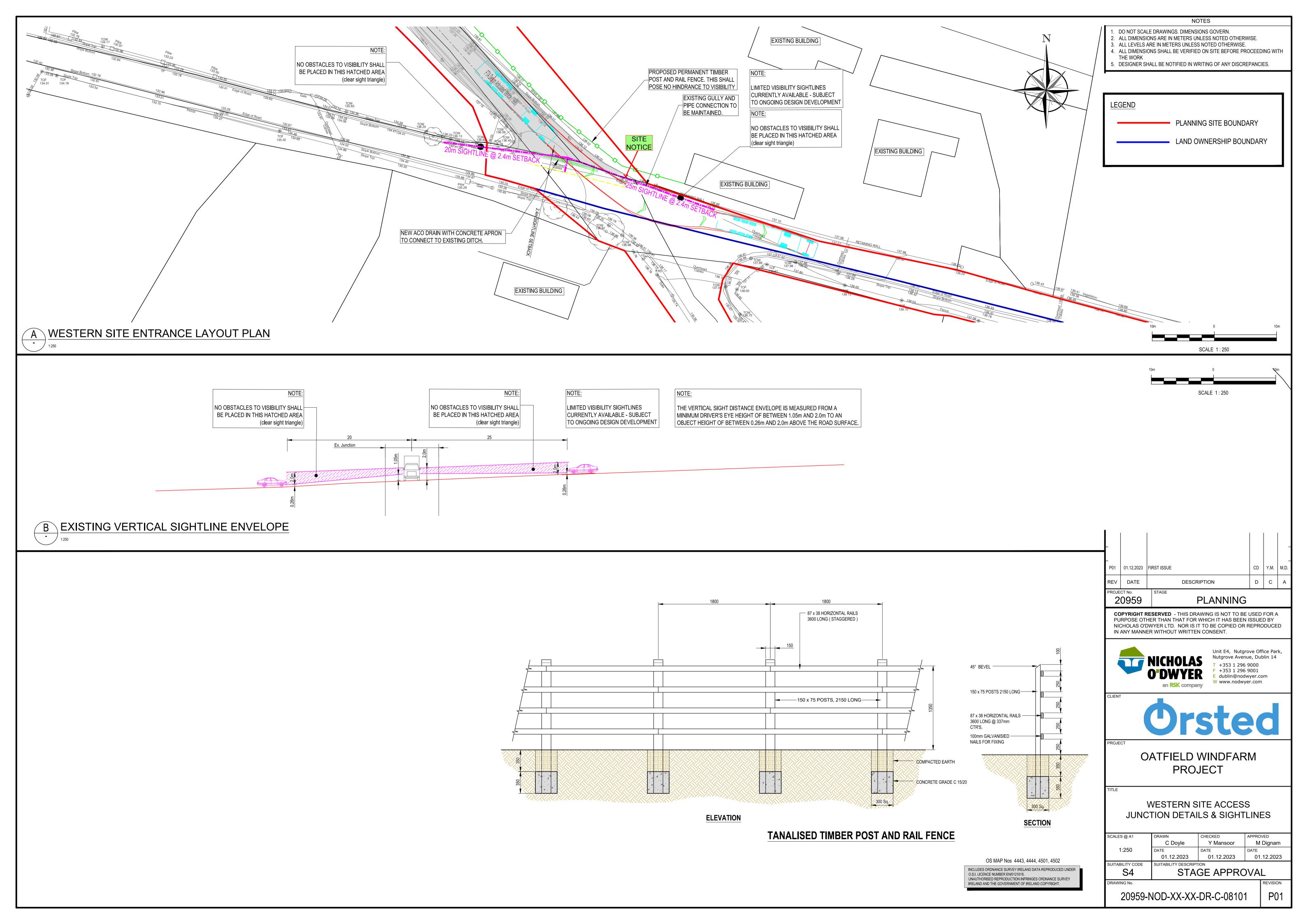
F +353 1 296 9001 E dublin@nodwyer.com W www.nodwyer.com

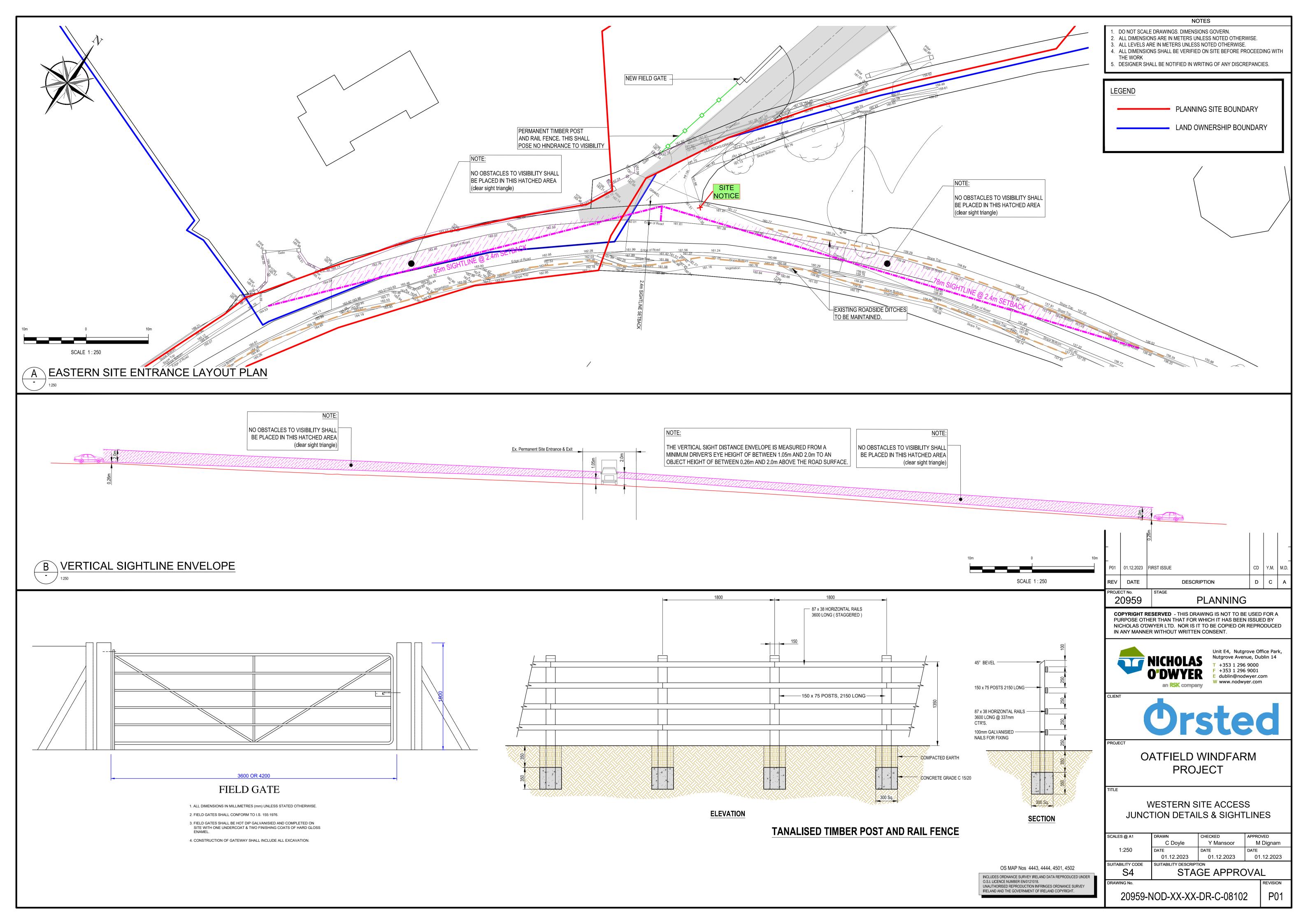
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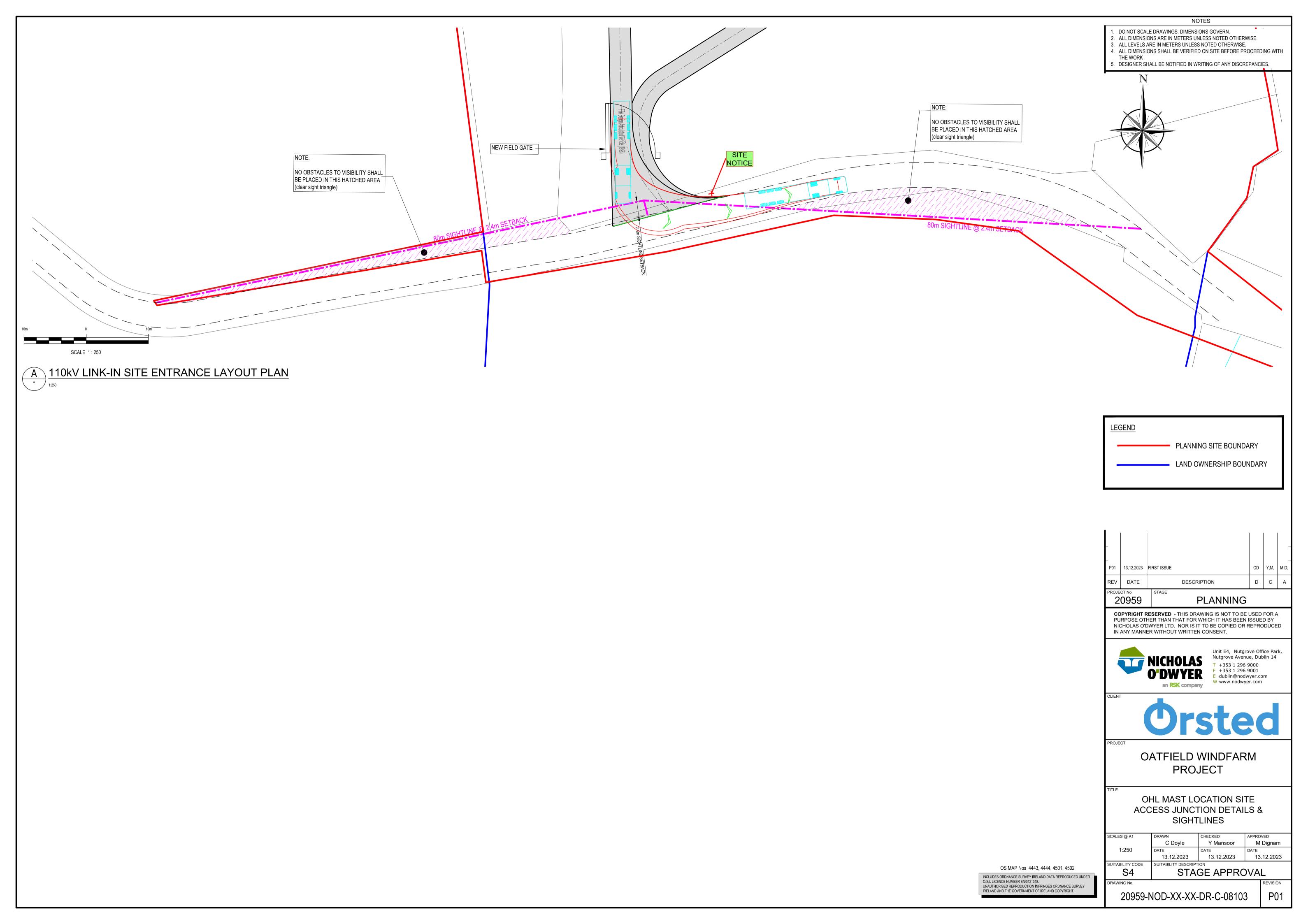
OATFIELD WINDFARM **PROJECT** 

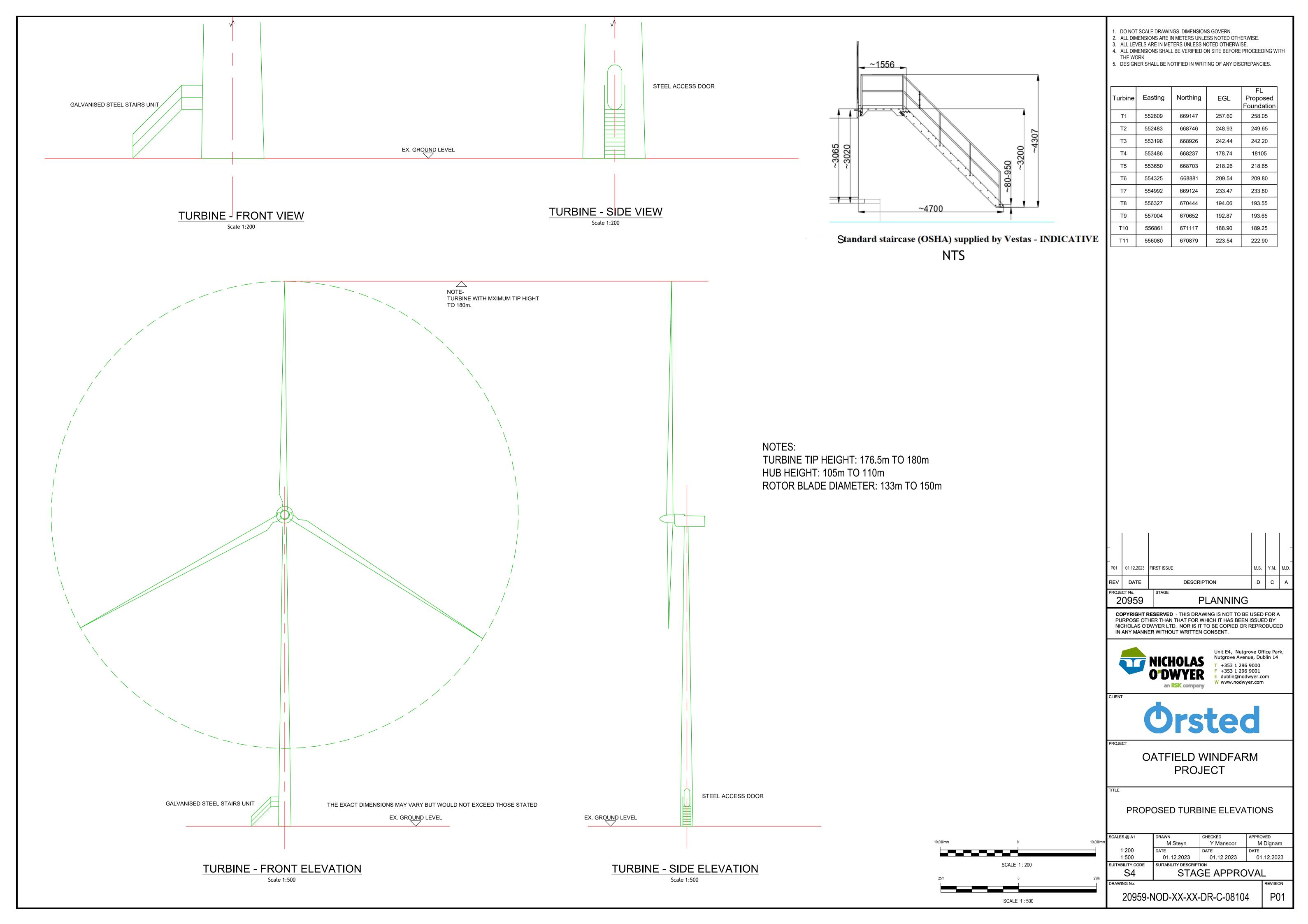
WEST ACCESS TRACK 3. BRIDGE DETAILS.

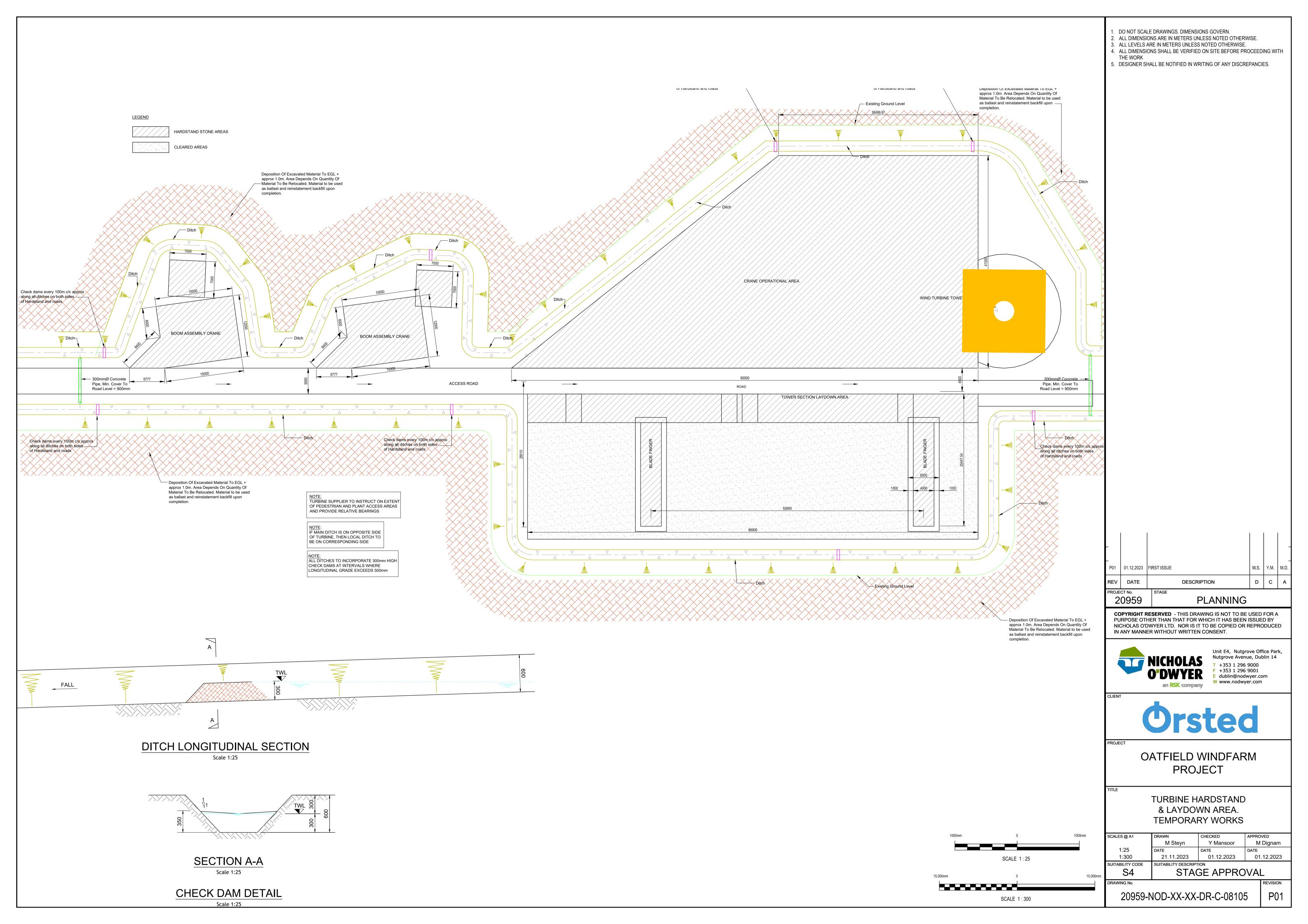
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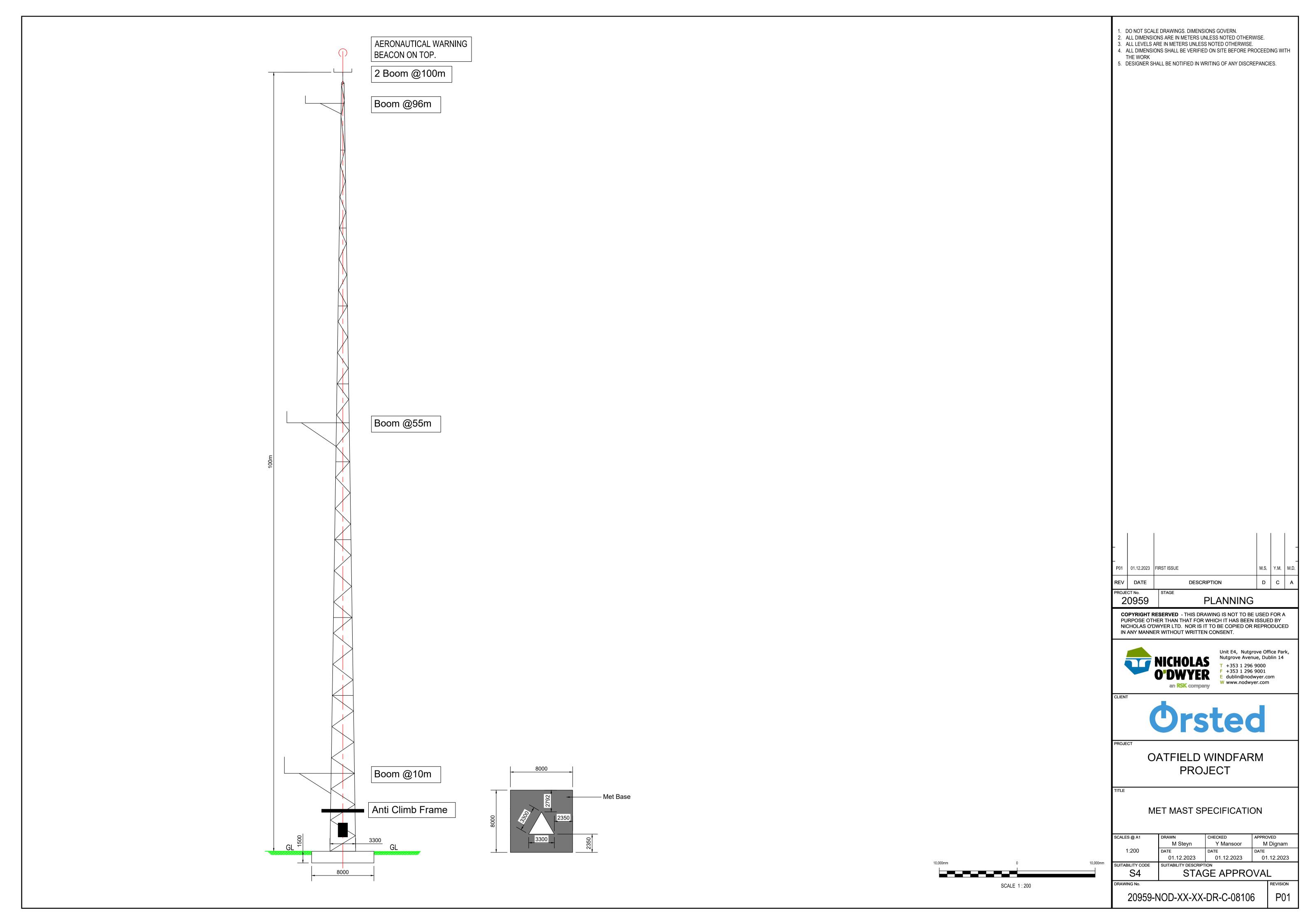


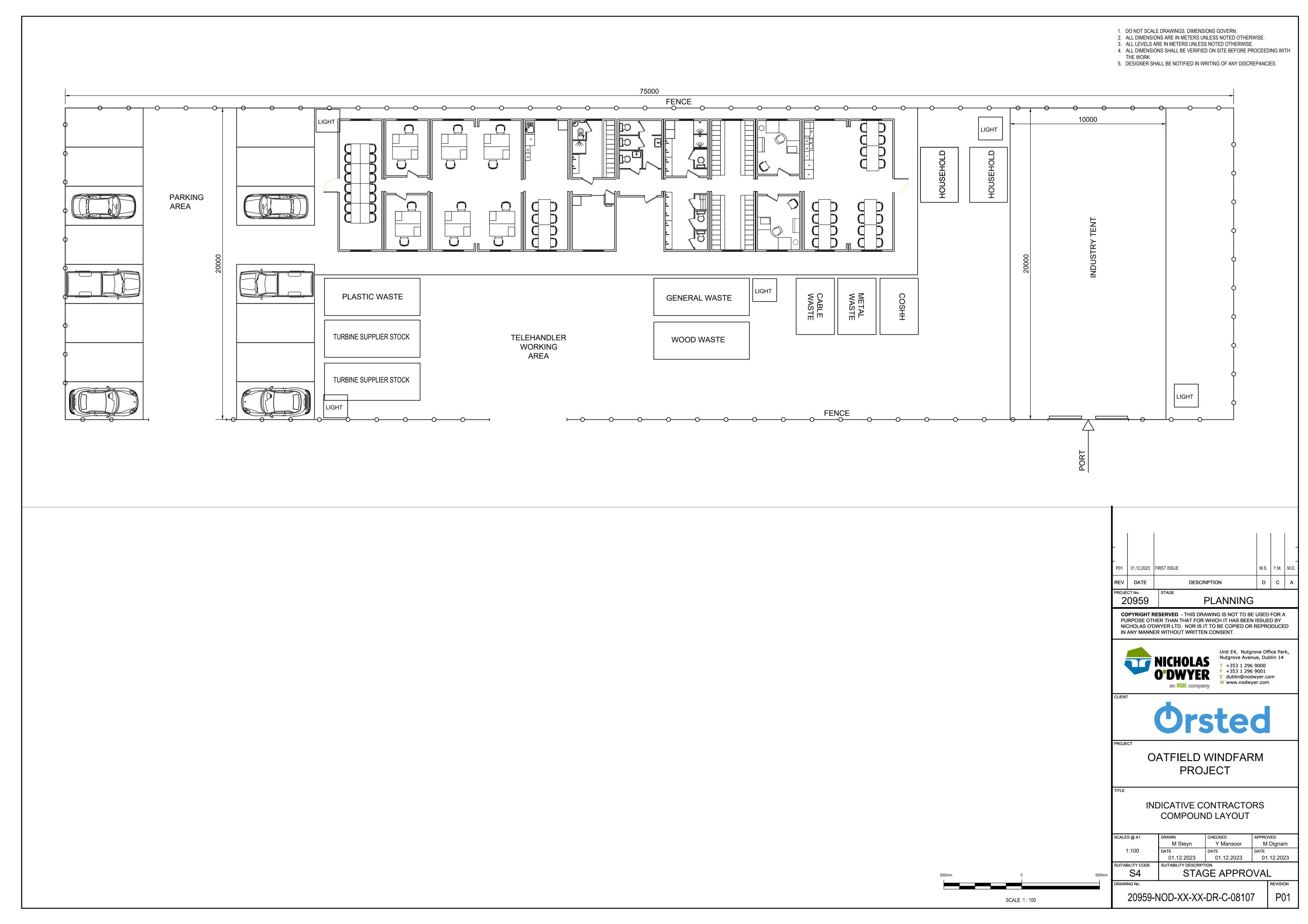


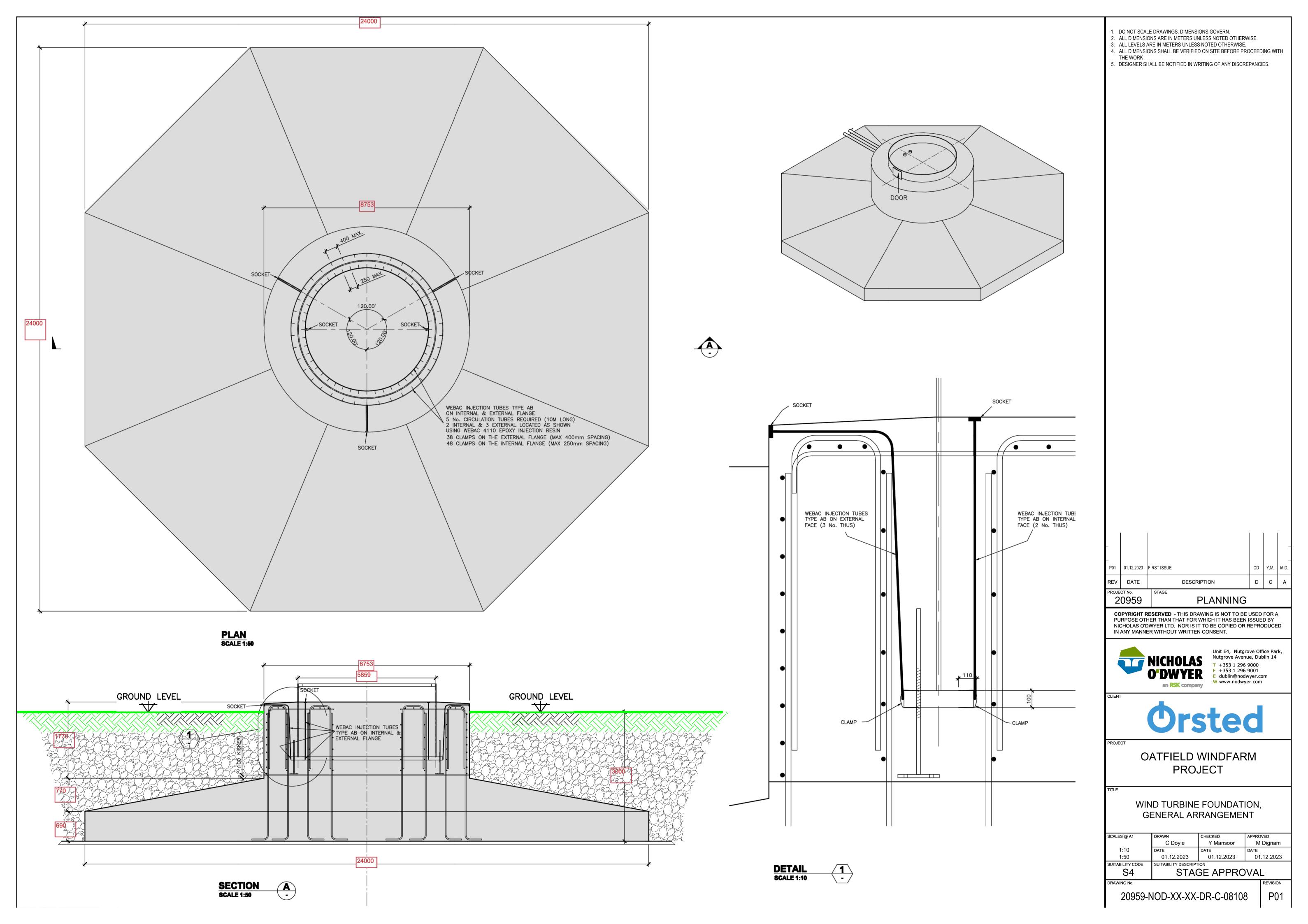


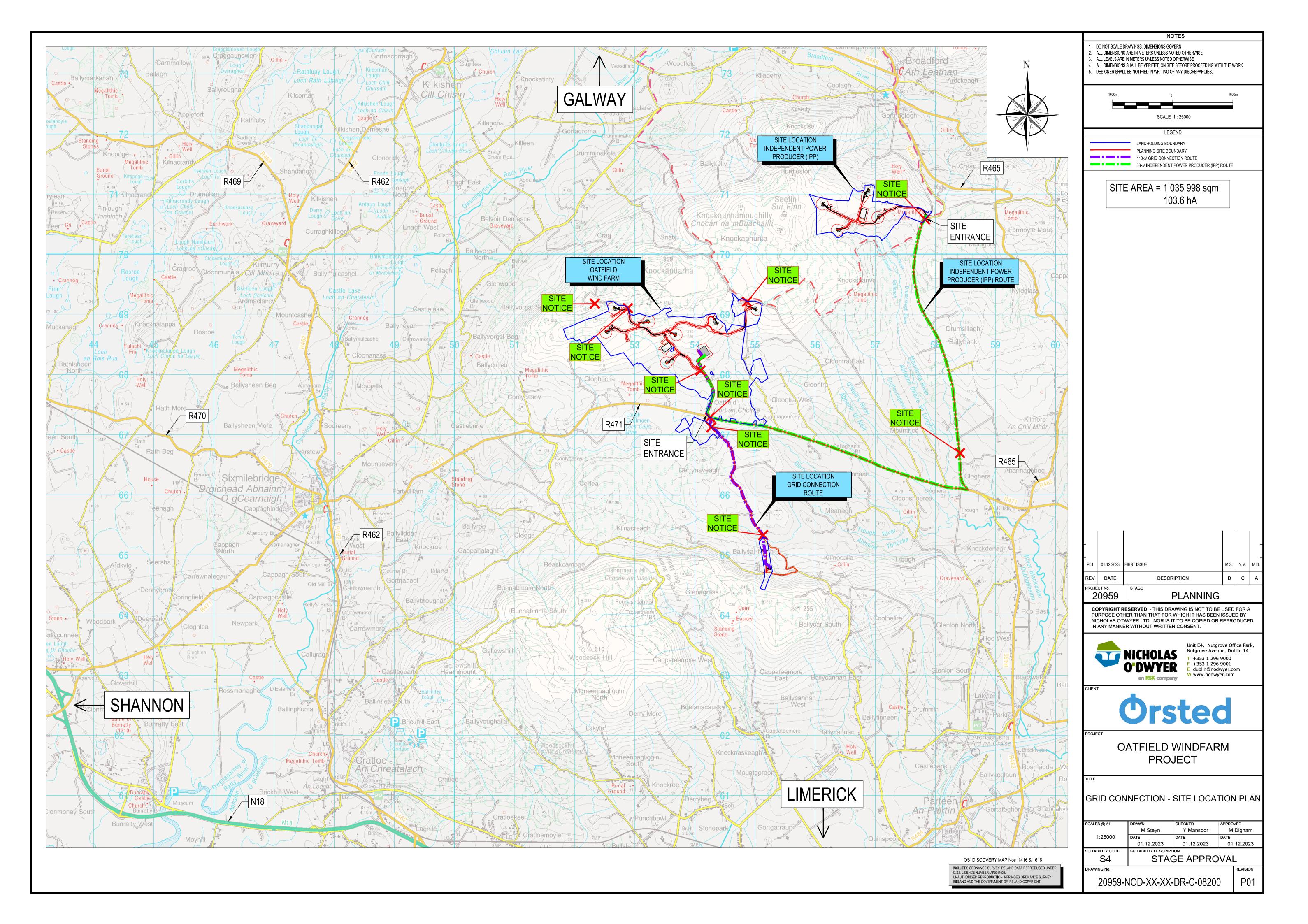


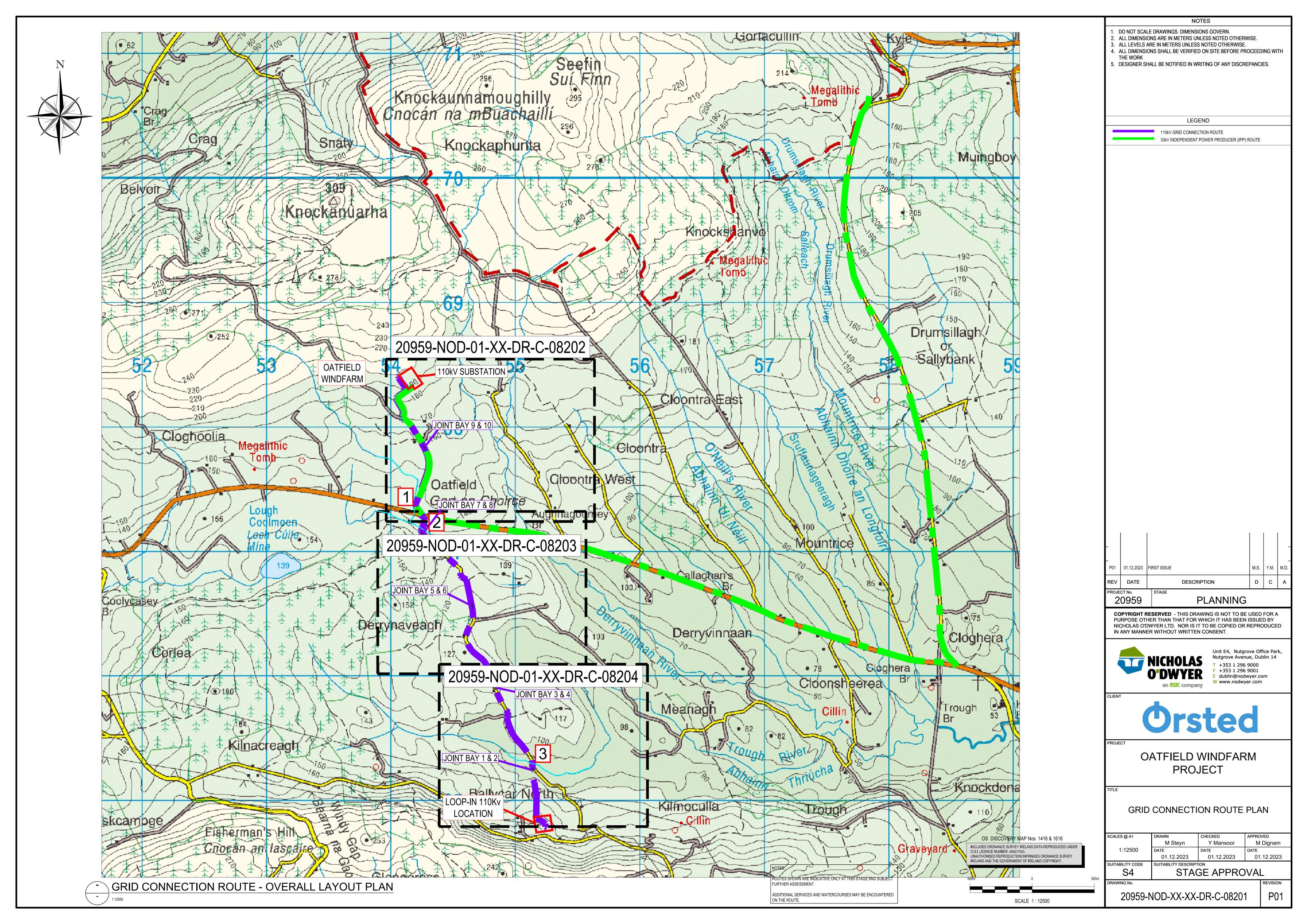


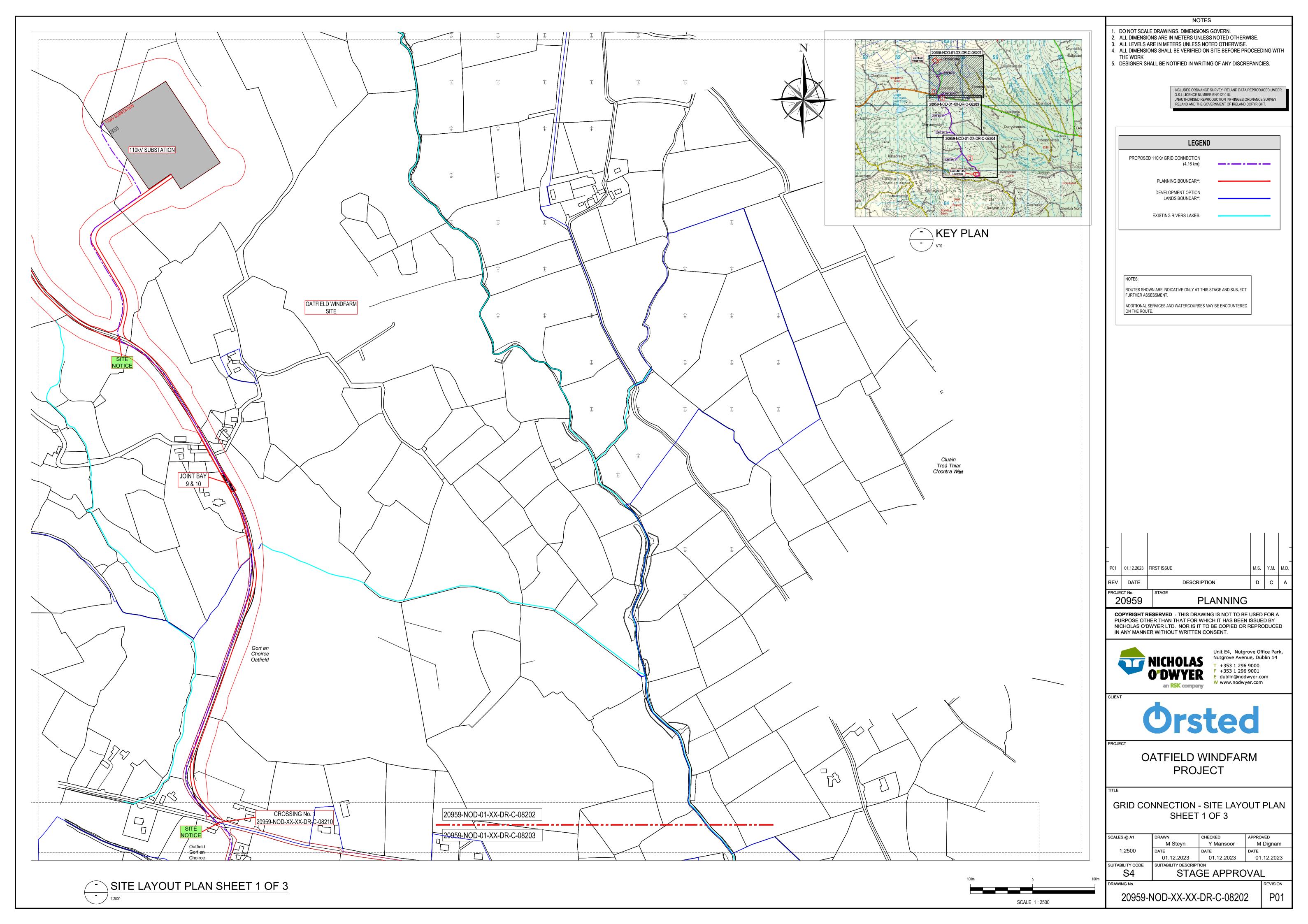


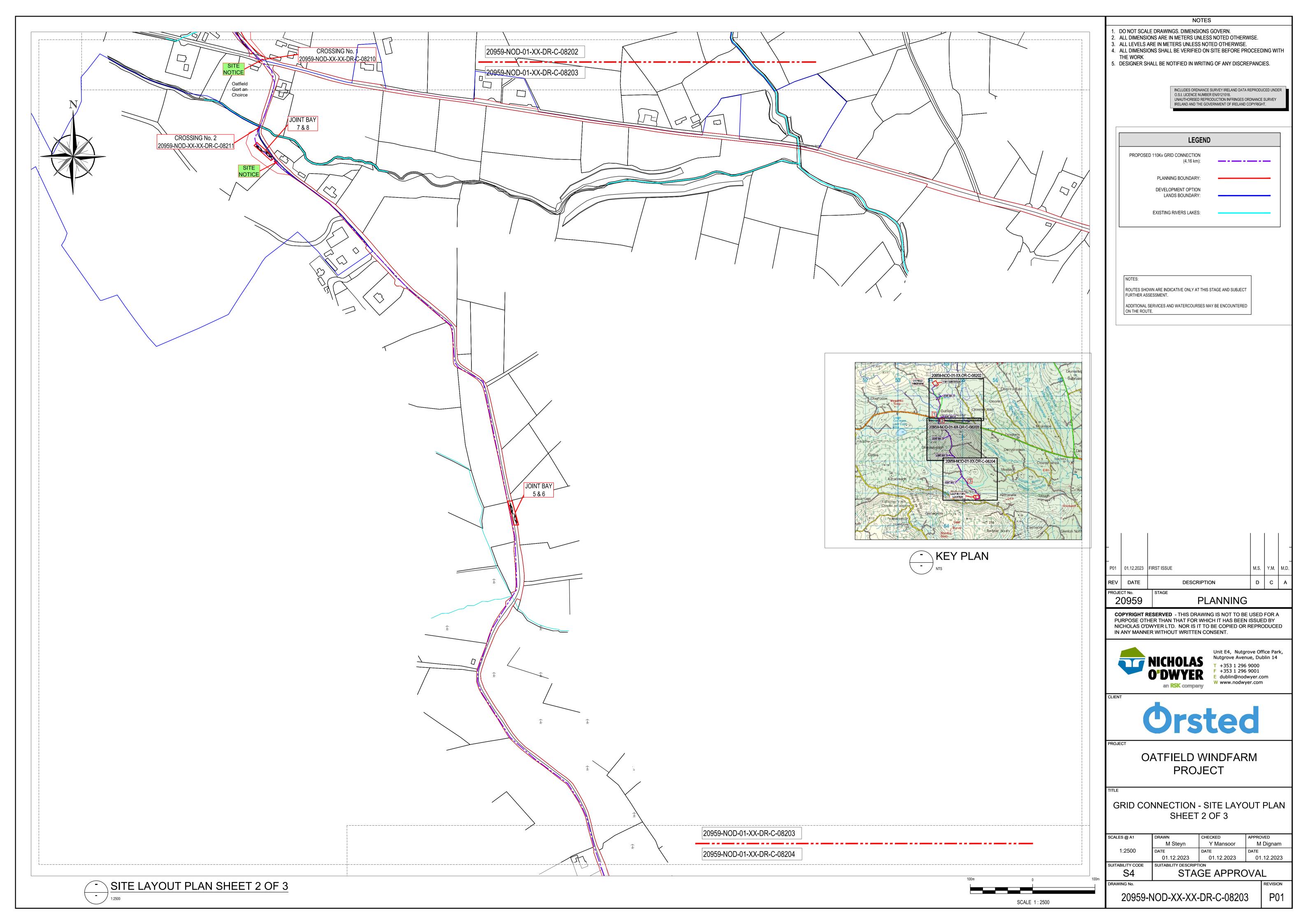


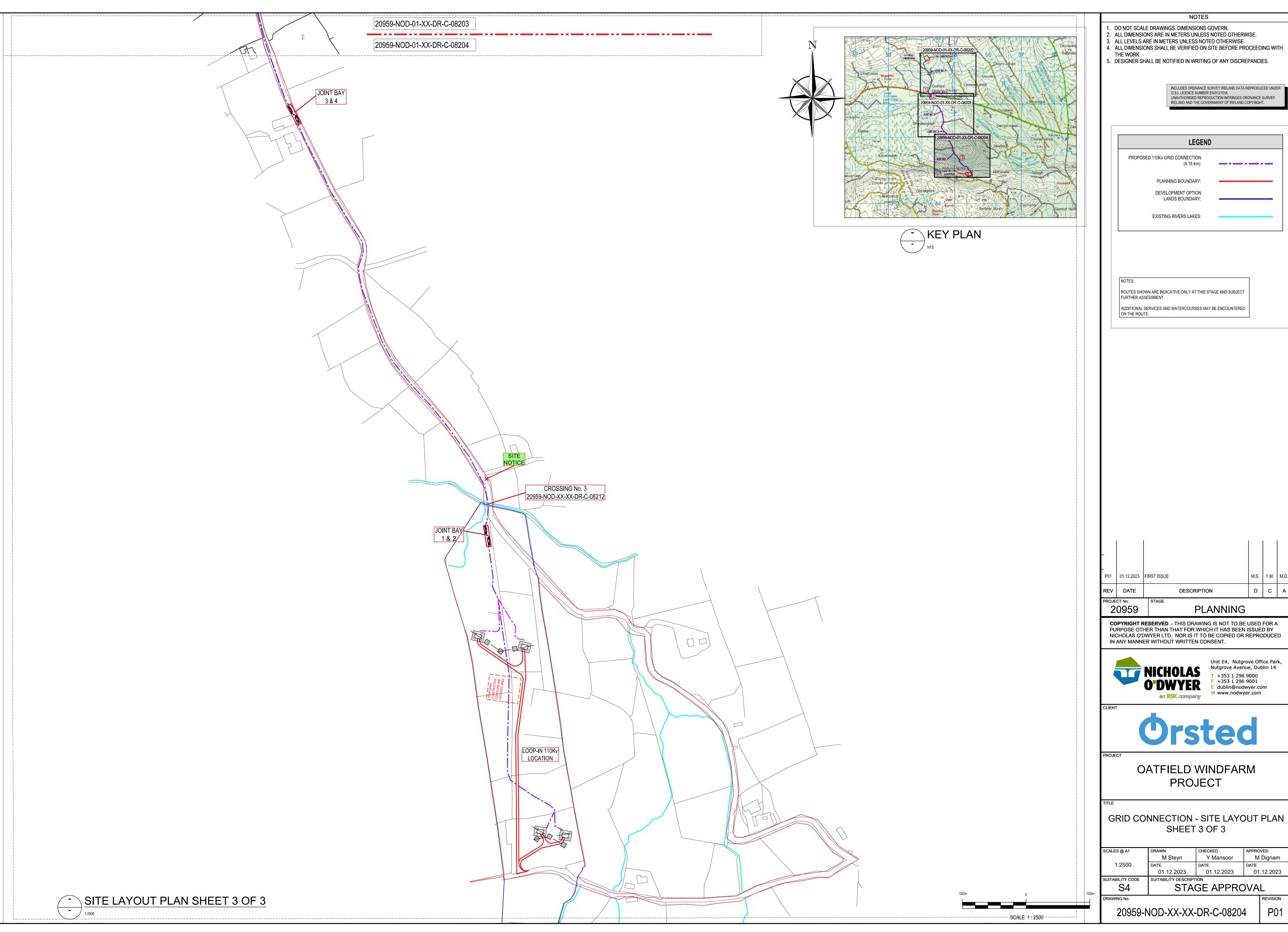




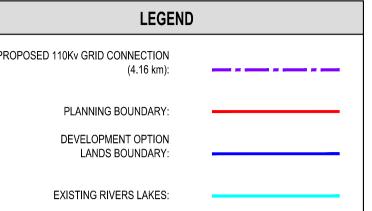








- 4. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH

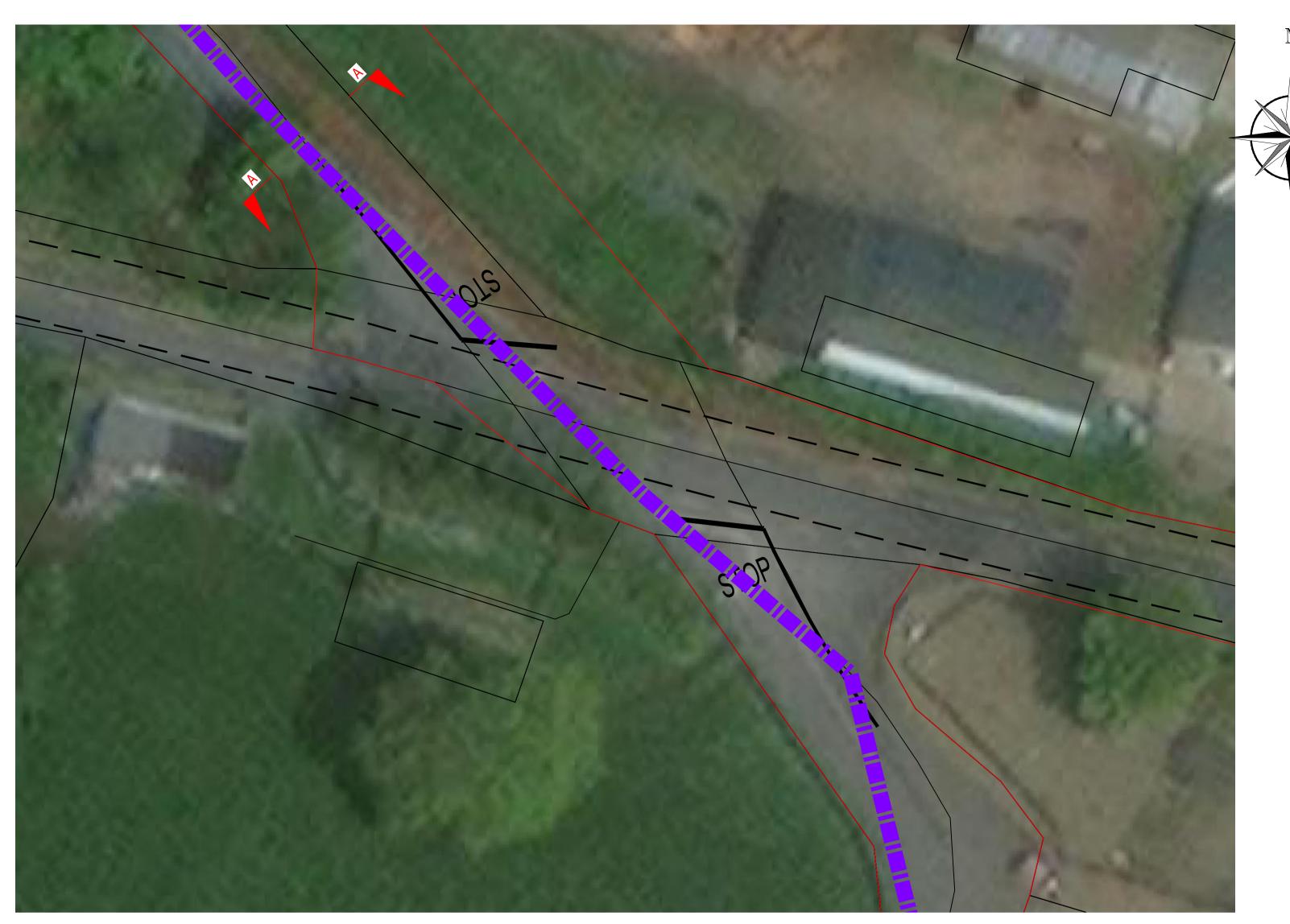


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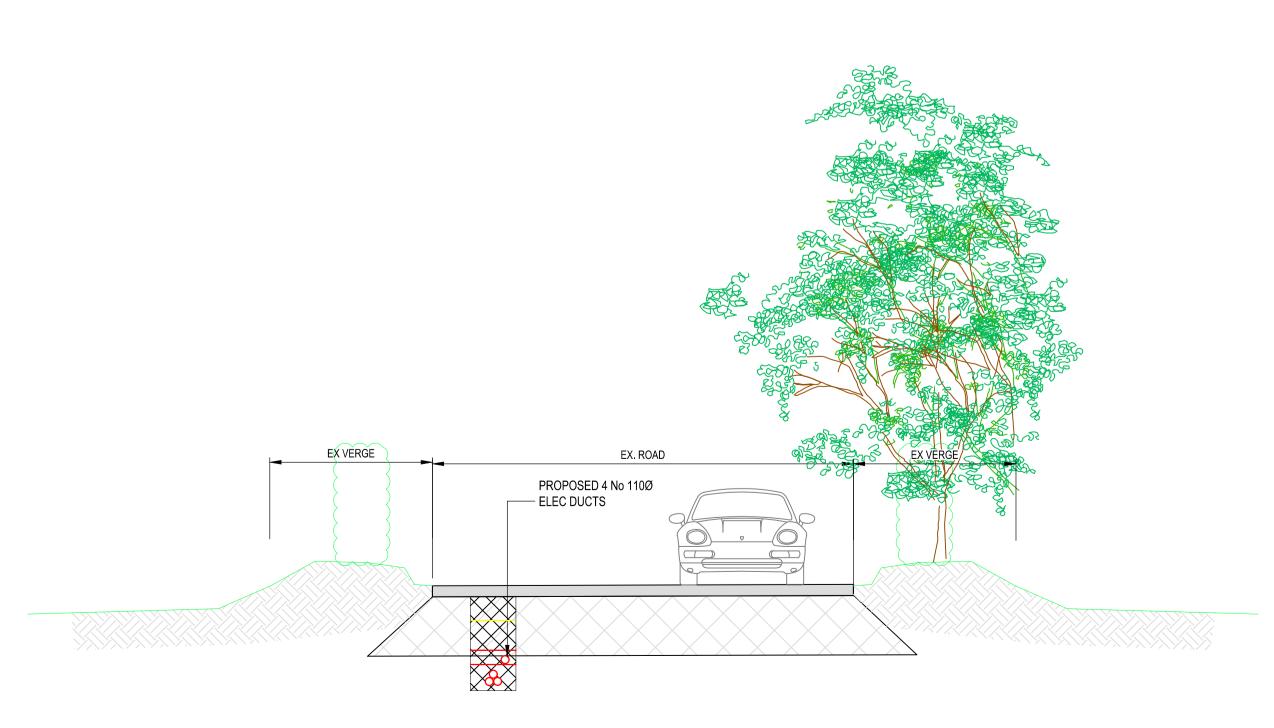
T +353 1 296 9000 F +353 1 296 9001 E dublin@nodwyer.com W www.nodwyer.com

GRID CONNECTION - SITE LAYOUT PLAN

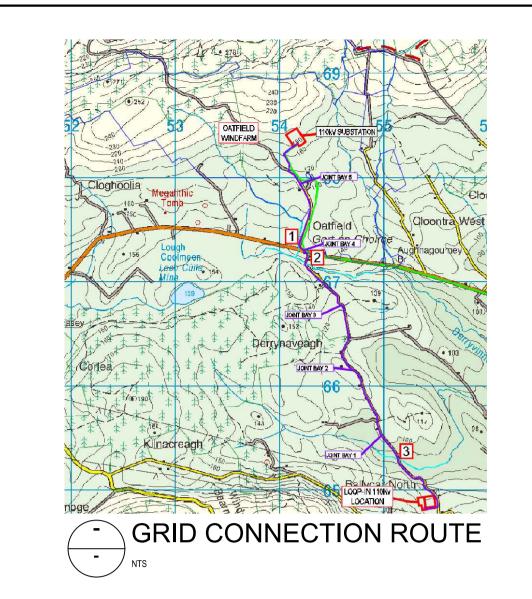
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SUITABILITY CODE	SUITABILITY DESCRIPTION		
S4	STAGE APPROVAL		

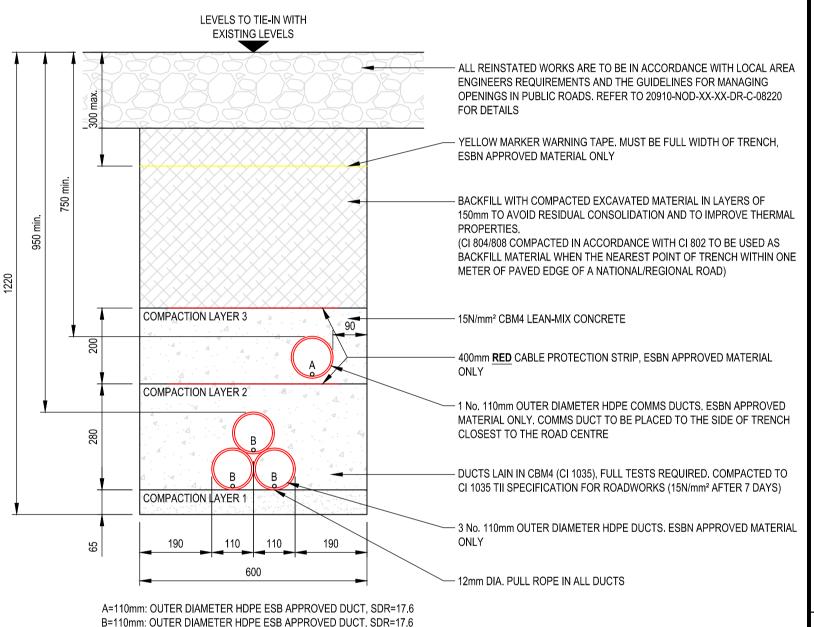


CROSSING NO. 1 - R471 ROAD CROSSING (OATFIELD)



SECTION A-A - CROSSING NO. 1 - R471 ROAD CROSSING (OATFIELD)





# TYPICAL GRID CONNECTION - TRENCH DETAIL

ROUTES SHOWN ARE INDICATIVE ONLY AT THIS STAGE AND SUBJECT

ADDITIONAL SERVICES AND WATERCOURSES MAY BE ENCOUNTERED

FURTHER ASSESSMENT.

THIS DRAWING IS SUBJECT TO ESB DESIGN APPROVAL AND IS TO BE USED FOR PLANNING PURPOSES ONLY. THIS DRAWING IS TO BE REVIEWED IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS. ALL DIMENSIONS ARE IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN

METRES UNLESS DEFINED OTHERWISE. THE EXISTING UTILITY SERVICE /INFORMATION SHOWN ON THIS PLAN IS A GENERAL GUIDE ONLY AND THE ACCURACY THEREOF CANNOT BE GUARANTEED. NO LIABILITY IS ACCEPTED FOR ANY DISCREPANCY. OMISSION OR DEVIATION AND THE ACTUAL POSITION OF INDIVIDUAL SERVICES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE COMMENCING THE WORKS NO EXCAVATION SHALL COMMENCE UNTIL THE CONTRACTOR HAS CONSULTED UP TO DATE SERVICES DRAWINGS AND CARRIED OUT AN ELECTROMAGNETIC LOCATOR (EML) SCAN.

300MM MIN ('HORIZONTAL AND VERTICAL CLEARANCE TO BE MAINTAINED FROM ALL SERVICES AT ALL TIMES, 600MM CLEARANCE REQUIRED FROM HIGH PRESSURE SERVICES. HAND DIG ONLY WITHIN 500MM OF EXISTING SERVICES. . ALL CO-ORDINATES ARE REFERENCED TO ITM. 0. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TEMPORARY

WORKS REQUIRED HDD LAUNCH AND RECEPTION PITS LOCATIONS TO BE DETERMINED FOLLOWING SITE

INVESTIGATIONS WORKS. 2. FINAL HDD DESIGN TO BE COMPLETED BY SPECIALIST DRILLING CONTRACTOR IN

CONJUNCTION WITH THE CABLE DESIGNER. 140MM (OD) SOR 11 HPDE POWER DUCTING AND 125MM (OD) SOR 11 COMMS DUCTING TO BE USED FOR HDD SECTION.

14. TRANSITION COUPLERS/TRANSITION CHAMBER TO BE UTILISED TO TRANSITION TO STANDARD POWER DUCTING AFTER HDD. COMMS DUCTS DO NOT REQUIRE A TRANSITION COUPLER AND WILL BE COUPLED DIRECTLY USING A CHAMFER BETWEEN THE TWO DUCTS. ALL INTERSTITIAL SPACE BETWEEN DUCTS AND BOREHOLE TO BE BENTONITED THOROUGHLY TO

MAINTAIN CABLE RATING. THE CONTRACTOR IS TO COMPLETE A COMPREHENSIVE STRUCTURAL SURVEY OF THE BRIDGE IN ADVANCE OF THE BRIDGE CROSSING WORKS COMMENCING. THE STRUCTURAL SURVEY REPORT SHALL BE SUBMITTED TO THE EMPLOYER CONFIRMING THE LONG TERM STRUCTURAL INTEGRITY OF THE STRUCTURE.

NOTES

DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE. . ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE. 4. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH THE WORK

DESIGNER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

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LEGEND PLANNING BOUNDARY: PROPOSED 110Kv GRID CONNECTION (4.16 km):

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P01 01.12.2023 FIRST ISSUE DESCRIPTION DATE 20959 **PLANNING** 

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Orsted

OATFIELD WINDFARM

**PROJECT** 

**GRID CONNECTION** 

**CROSSING 1** M Steyn Y Mansoor

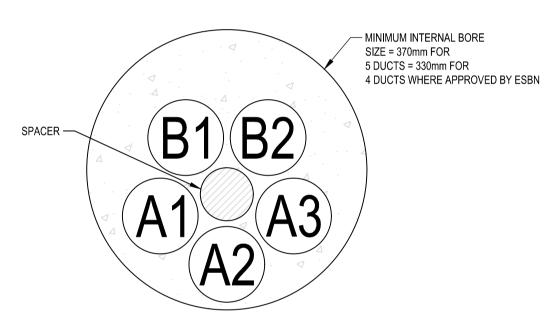
1:10 M Dignam 1:50 01.12.2023 01.12.2023 01.12.2023 1:200 IITABILITY CODE STAGE APPROVAL S4

20959-NOD-XX-XX-DR-C-08210

AWING No.



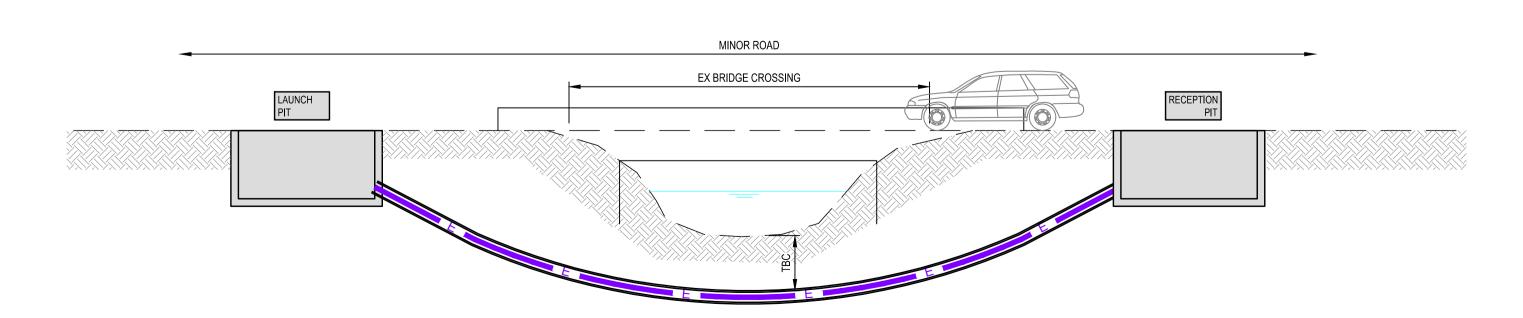
CROSSING NO. 2 - RIVER CROSSING



A = 140mm: OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR-11 (POWER) B = 125mm: OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR-11 (COMMS)

ALL INTERSTITIAL SPACE TO BE BENTONITED THOROUGHLY TO MAINTAIN CABLE RATING. ACCURATELY RECORD CROSSING LOCATION & ERECT MARKER POSTS

HDD SLEEVE CROSS SECTION



SECTION A-A - CROSSING NO. 2 - HDD LONGITUDINAL SECTION

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GRID CONNECTION ROUTE

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- ALL CO-ORDINATES ARE REFERENCED TO ITM. 0. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TEMPORARY WORKS REQUIRED
- HDD LAUNCH AND RECEPTION PITS LOCATIONS TO BE DETERMINED FOLLOWING SITE
- INVESTIGATIONS WORKS.
- 2. FINAL HDD DESIGN TO BE COMPLETED BY SPECIALIST DRILLING CONTRACTOR IN
- CONJUNCTION WITH THE CABLE DESIGNER.
- 3. 140MM (OD) SOR 11 HPDE POWER DUCTING AND 125MM (OD) SOR 11 COMMS DUCTING TO BE USED FOR HDD SECTION. 14. TRANSITION COUPLERS/TRANSITION CHAMBER TO BE UTILISED TO TRANSITION TO STANDARD POWER DUCTING AFTER HDD. COMMS DUCTS DO NOT REQUIRE A TRANSITION COUPLER AND

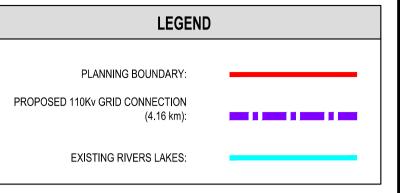
WILL BE COUPLED DIRECTLY USING A CHAMFER BETWEEN THE TWO DUCTS.

OF THE STRUCTURE.

5. ALL INTERSTITIAL SPACE BETWEEN DUCTS AND BOREHOLE TO BE BENTONITED THOROUGHLY TO MAINTAIN CABLE RATING. THE CONTRACTOR IS TO COMPLETE A COMPREHENSIVE STRUCTURAL SURVEY OF THE BRIDGE IN ADVANCE OF THE BRIDGE CROSSING WORKS COMMENCING. THE STRUCTURAL SURVEY REPORT SHALL BE SUBMITTED TO THE EMPLOYER CONFIRMING THE LONG TERM STRUCTURAL INTEGRITY

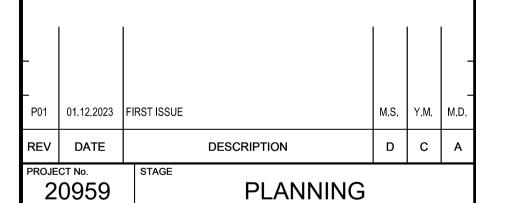
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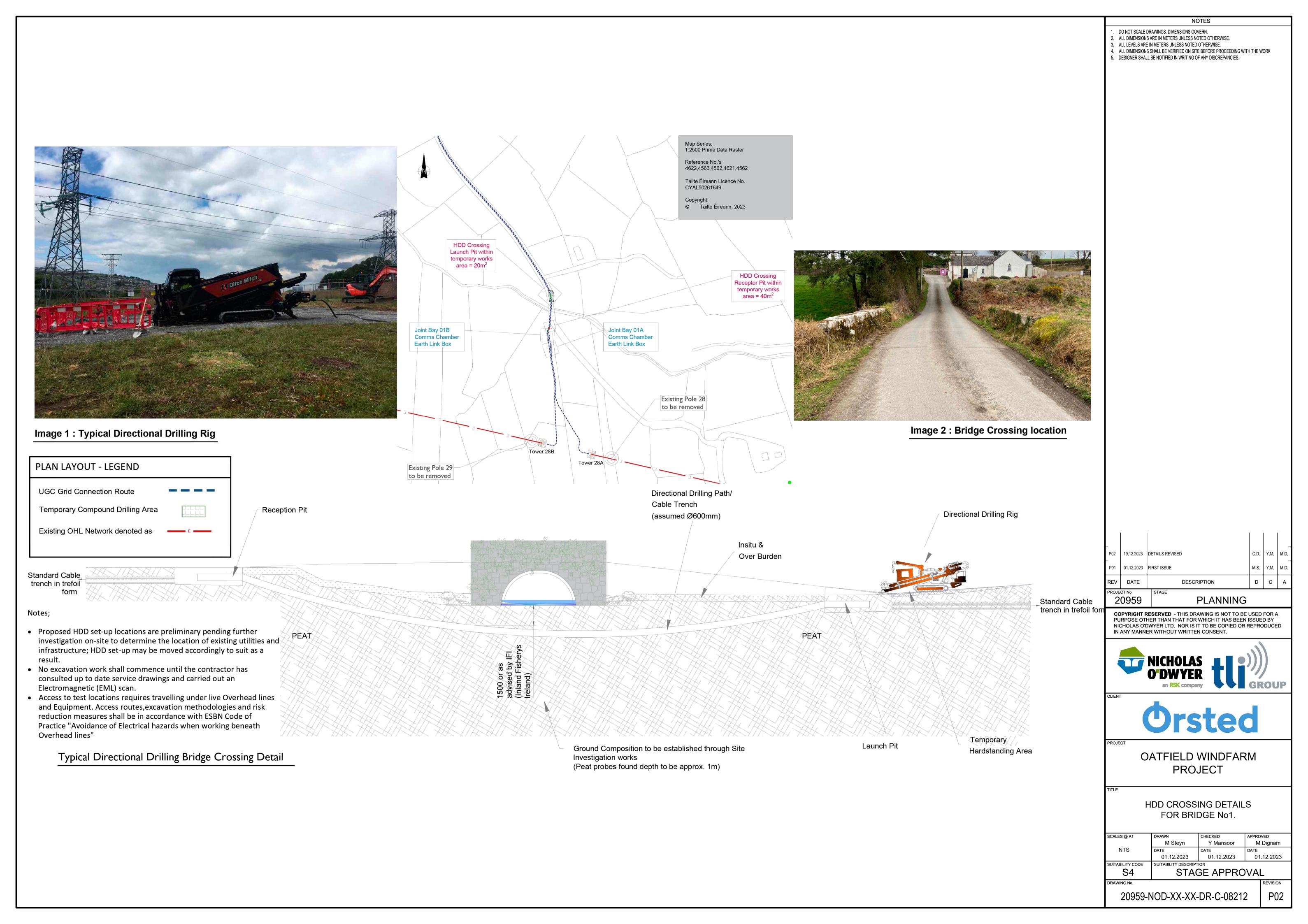


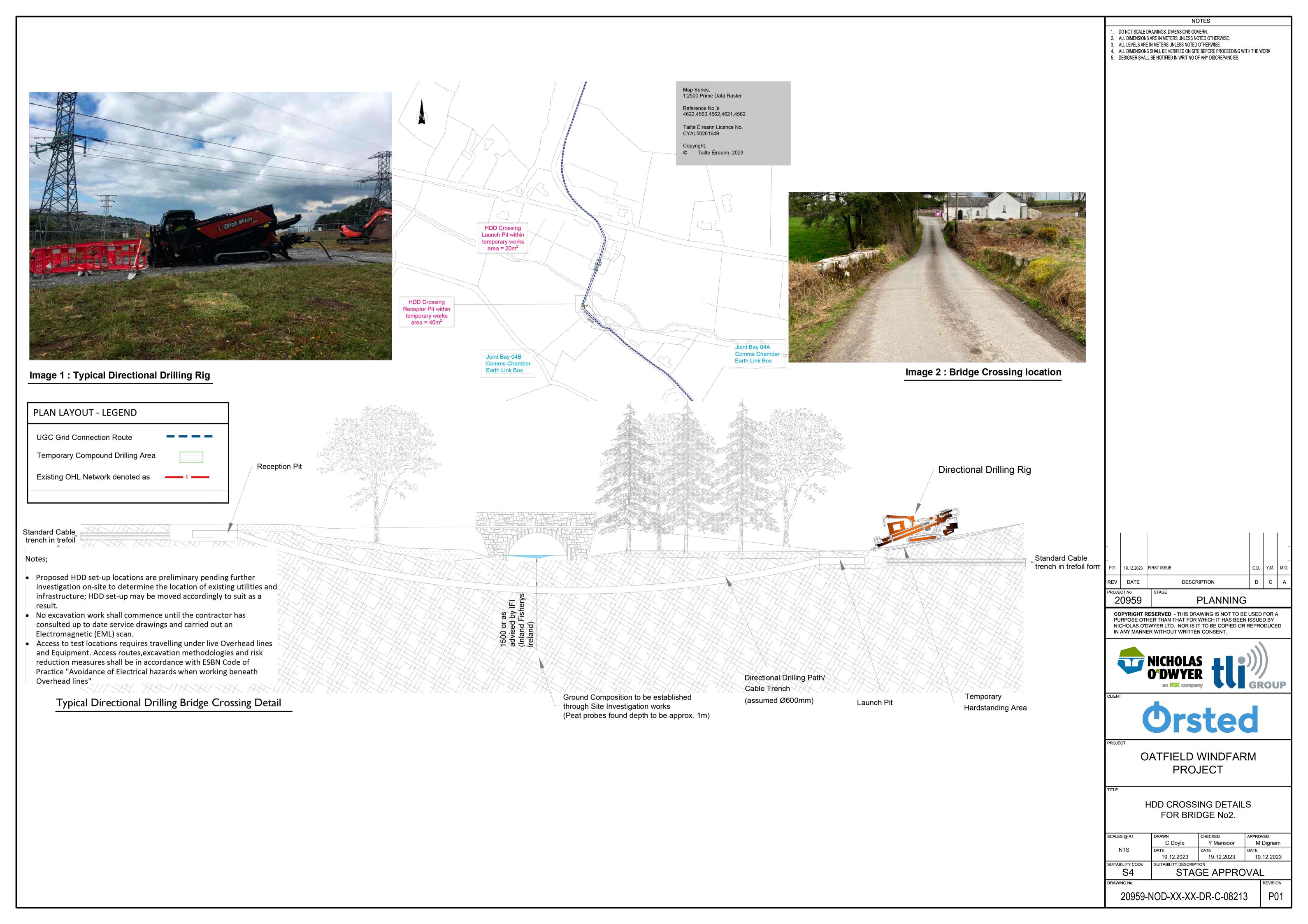
OATFIELD WINDFARM **PROJECT** 

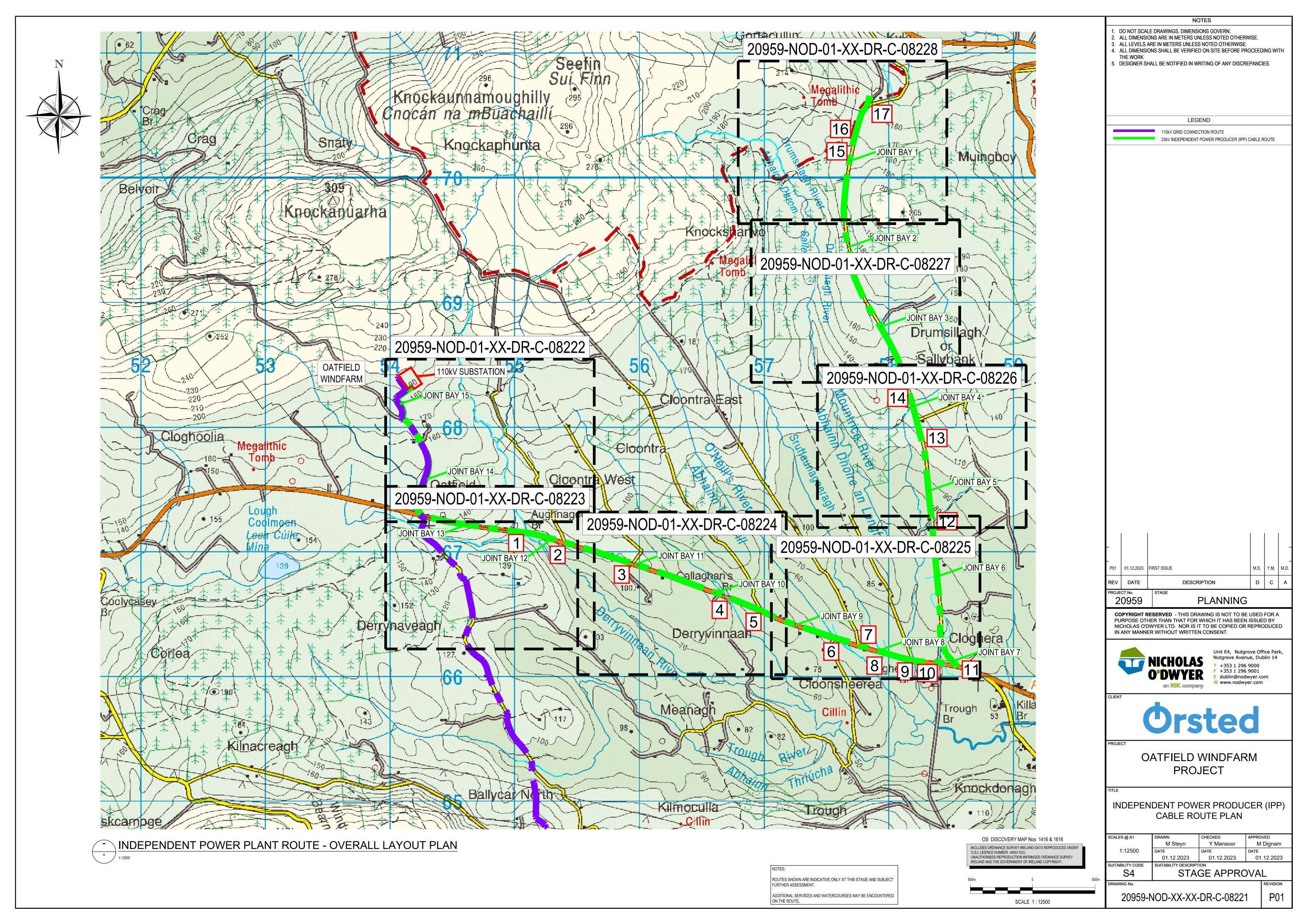
**GRID CONNECTION** 

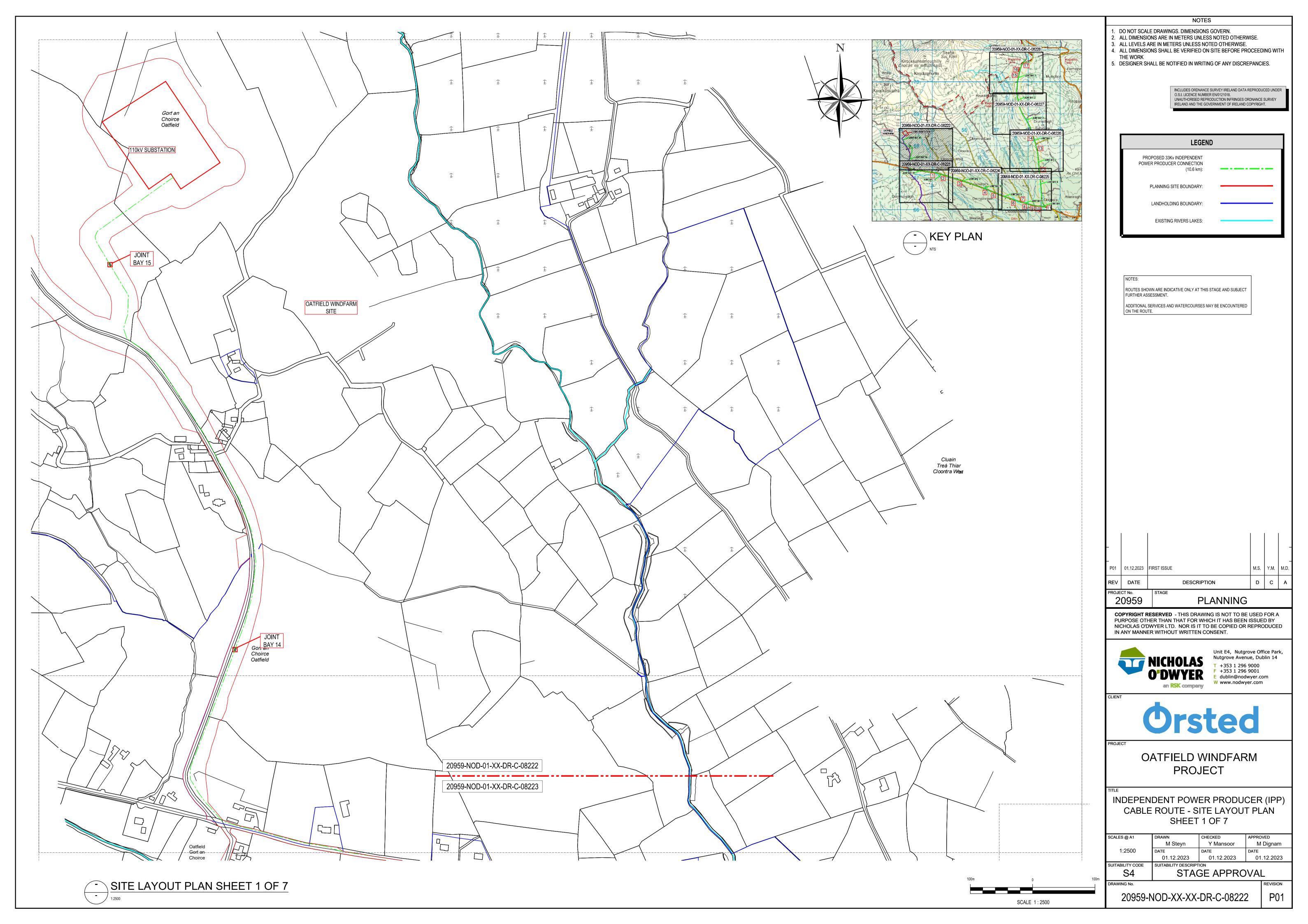
CROSSING 2

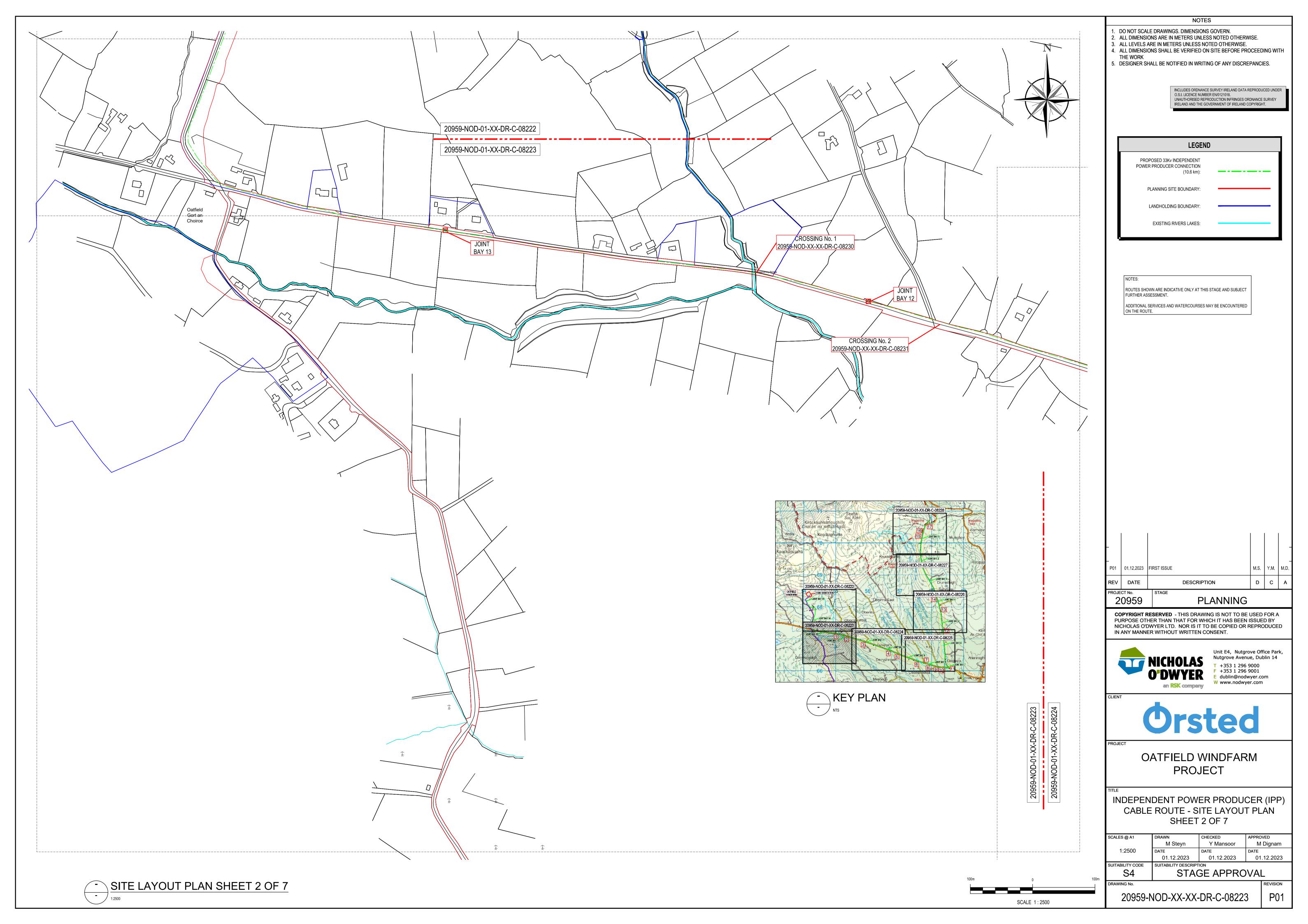
	M Steyn	Y Mansoor	M Dignam
1:100	DATE	DATE	DATE
1:200	01.12.2023	01.12.2023	01.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPTION		
S4	STAGE APPROVAL		

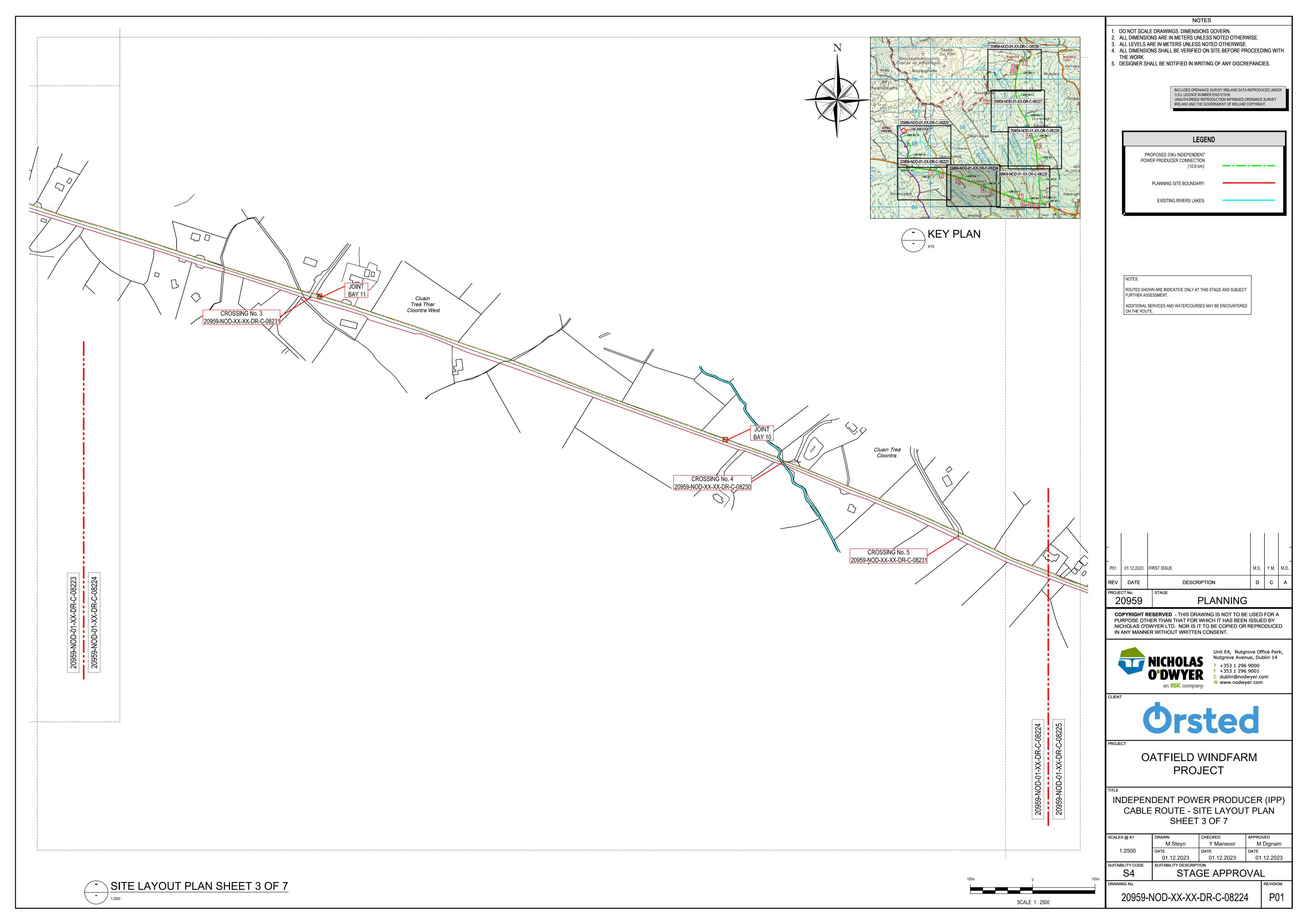


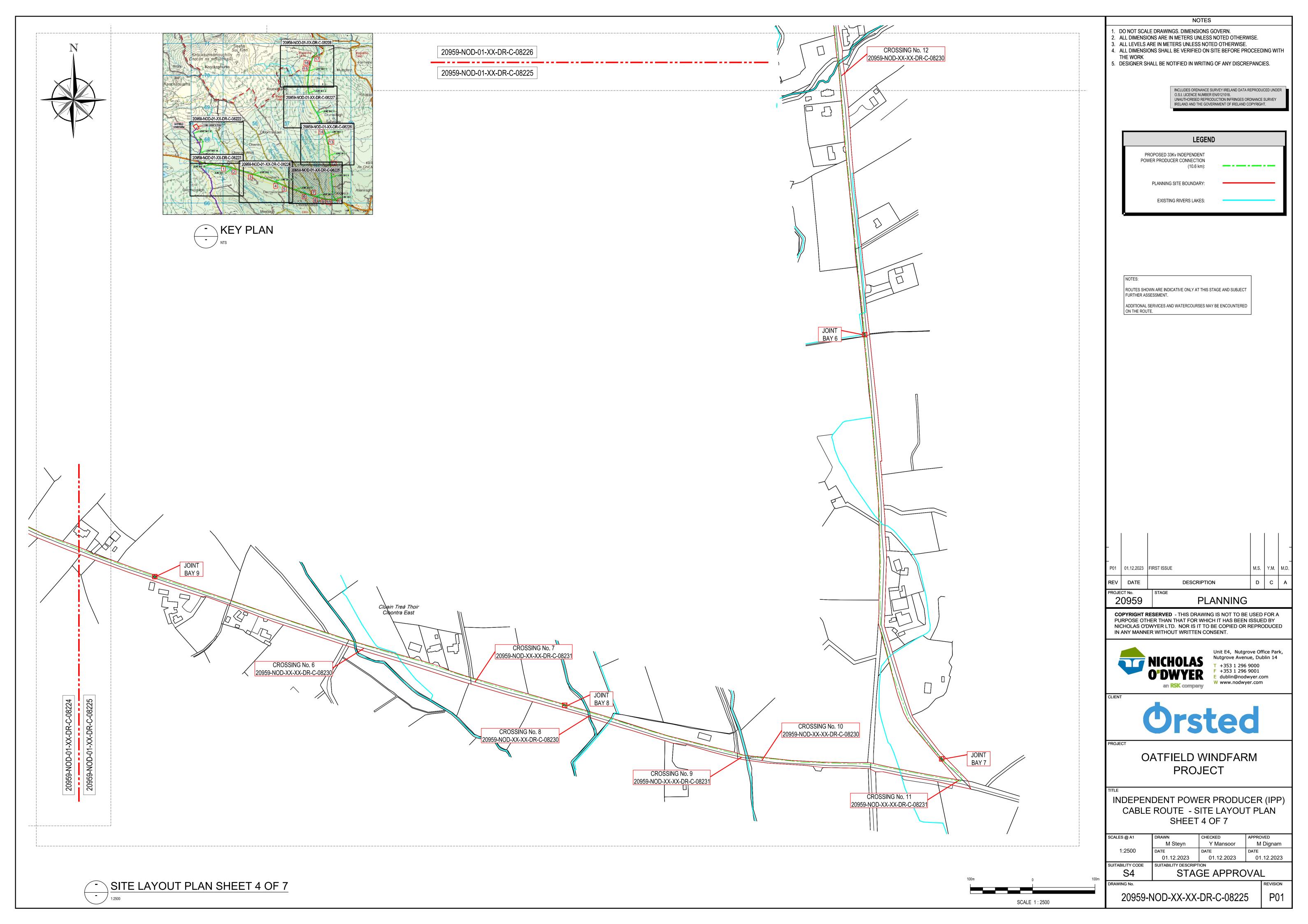


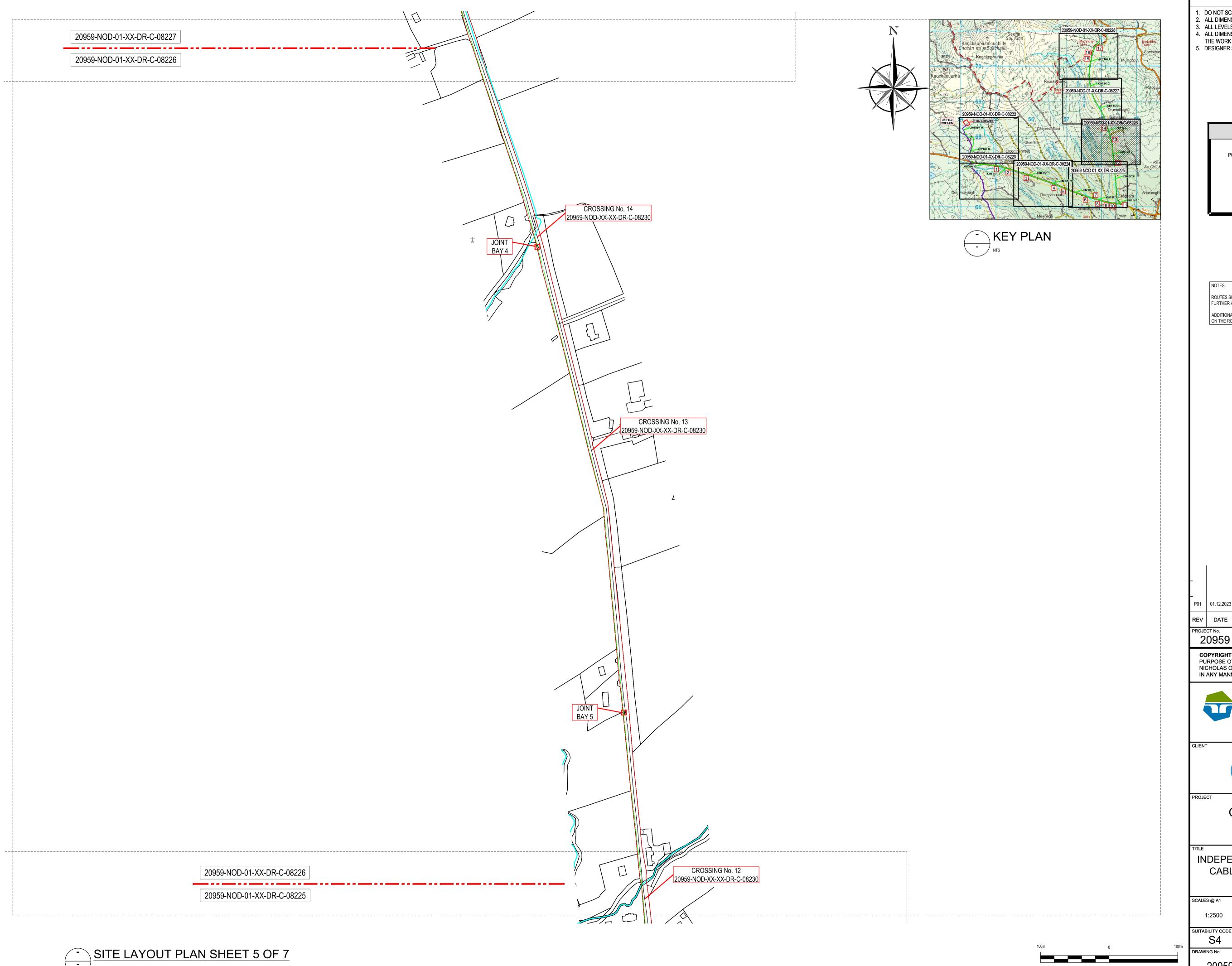












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SCALE 1:2500

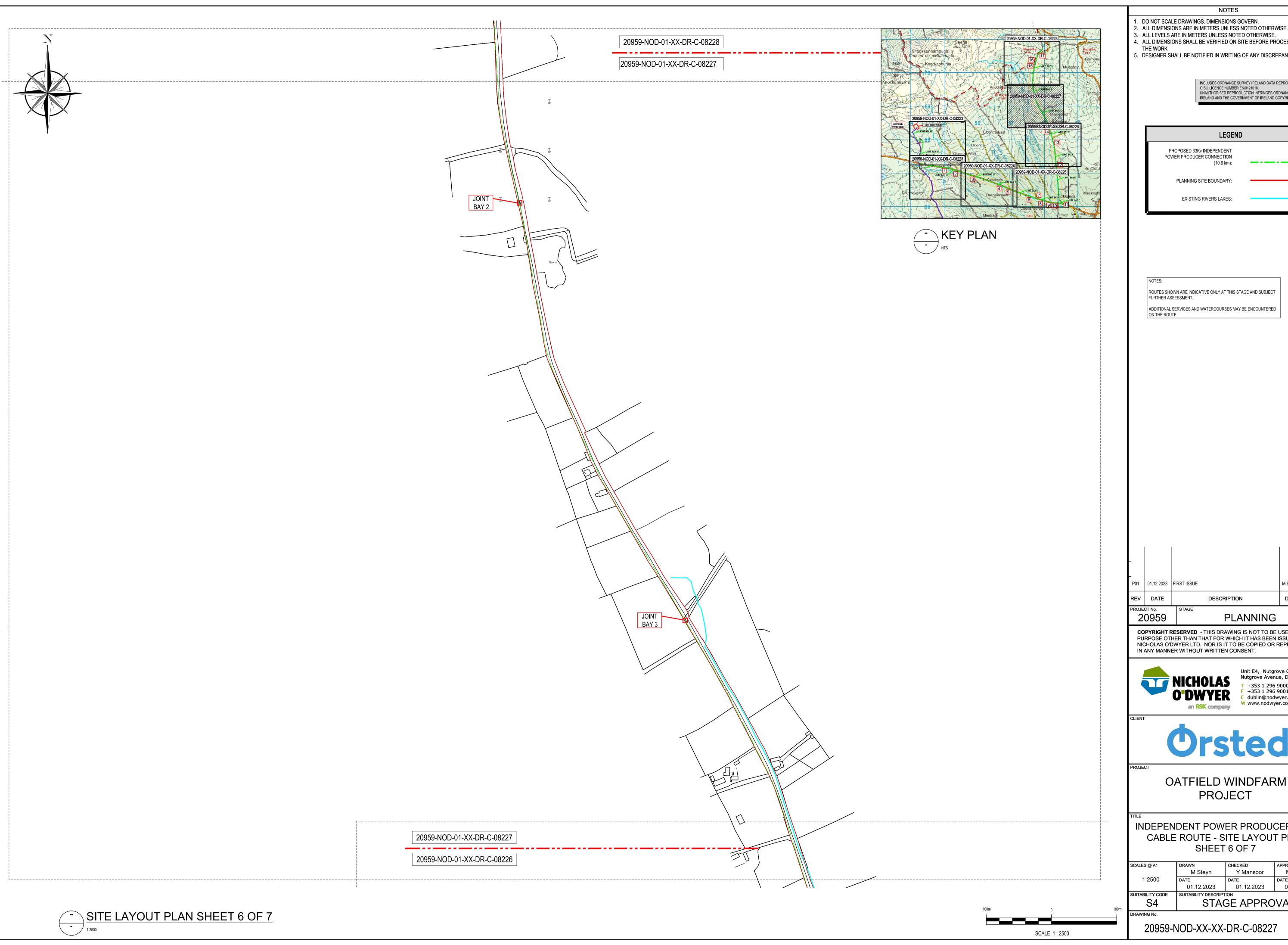


OATFIELD WINDFARM **PROJECT** 

INDEPENDENT POWER PRODUCER (IPP) CABLE ROUTE - SITE LAYOUT PLAN

SHEET 5 OF 7 M Steyn Y Mansoor M Dignam 01.12.2023 01.12.2023 01.12.2023

STAGE APPROVAL



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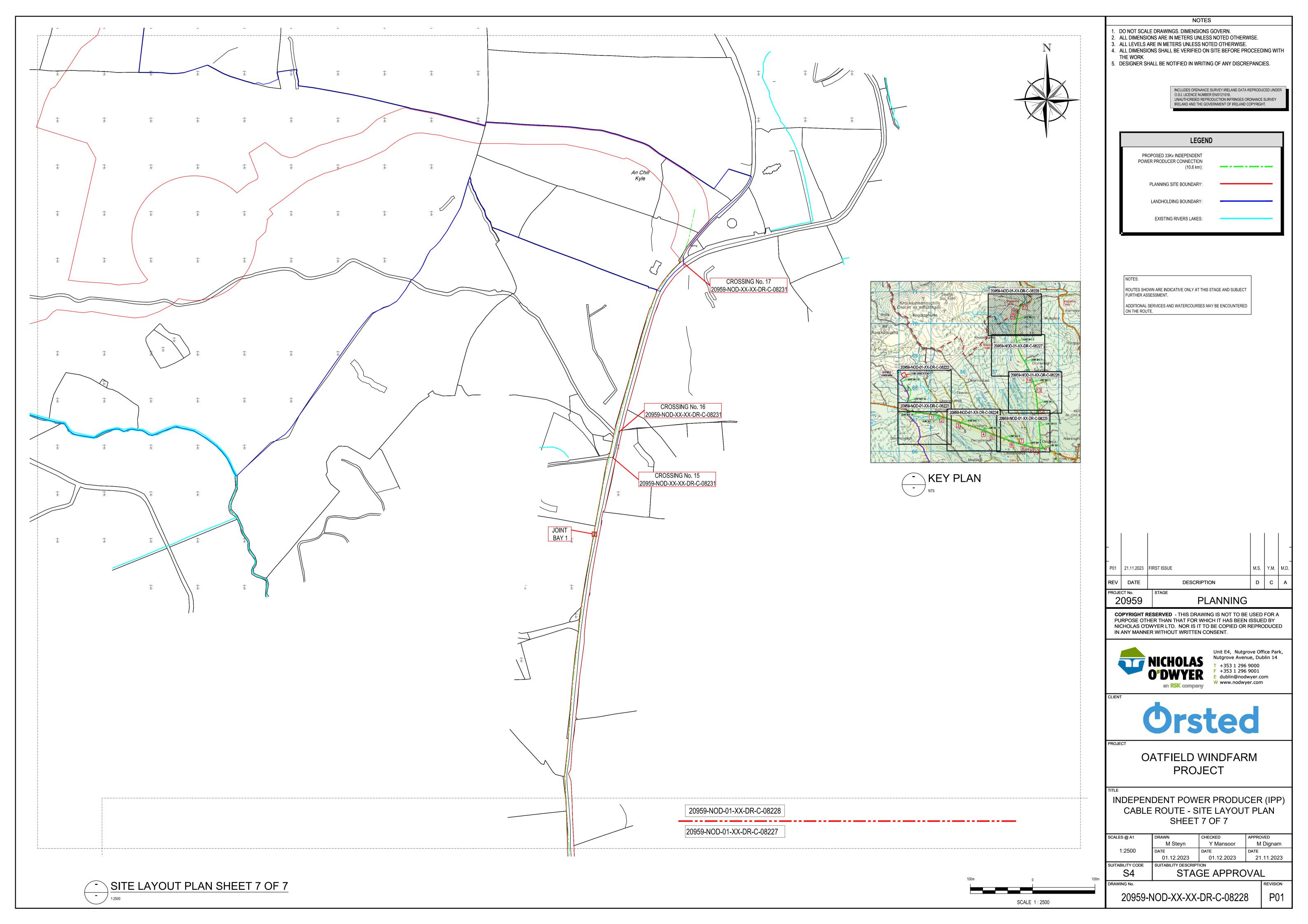


OATFIELD WINDFARM **PROJECT** 

INDEPENDENT POWER PRODUCER (IPP) CABLE ROUTE - SITE LAYOUT PLAN

Y Mansoor M Steyn M Dignam 01.12.2023 01.12.2023 01.12.2023 SUITABILITY CODE SUITABILITY DESCRIPTION

STAGE APPROVAL





# INDEPENDENT POWER PRODUCER (IPP) CABLE ROUTE

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- HAND DIG ONLY WITHIN 500MM OF EXISTING SERVICES. ALL CO-ORDINATES ARE REFERENCED TO ITM. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TEMPORARY
- HDD LAUNCH AND RECEPTION PITS LOCATIONS TO BE DETERMINED FOLLOWING SITE INVESTIGATIONS WORKS.
- FINAL HDD DESIGN TO BE COMPLETED BY SPECIALIST DRILLING CONTRACTOR IN CONJUNCTION WITH THE CABLE DESIGNER.
- 140MM (OD) SOR 11 HPDE POWER DUCTING AND 125MM (OD) SOR 11 COMMS
- DUCTING TO BE USED FOR HDD SECTION. TRANSITION COUPLERS/TRANSITION CHAMBER TO BE UTILISED TO TRANSITION TO STANDARD POWER DUCTING AFTER HDD, COMMS DUCTS DO NOT REQUIRE A TRANSITION COUPLER AND WILL BE COUPLED DIRECTLY USING A CHAMFER BETWEEN THE TWO DUCTS.
- MAINTAIN CABLE RATING. THE CONTRACTOR IS TO COMPLETE A COMPREHENSIVE STRUCTURAL SURVEY OF THE BRIDGE IN ADVANCE OF THE BRIDGE CROSSING WORKS COMMENCING. THE STRUCTURAL SURVEY REPORT SHALL BE SUBMITTED TO THE EMPLOYER CONFIRMING THE LONG TERM STRUCTURAL INTEGRITY OF THE STRUCTURE.

ALL INTERSTITIAL SPACE BETWEEN DUCTS AND BOREHOLE TO BE BENTONITED THOROUGHLY TO

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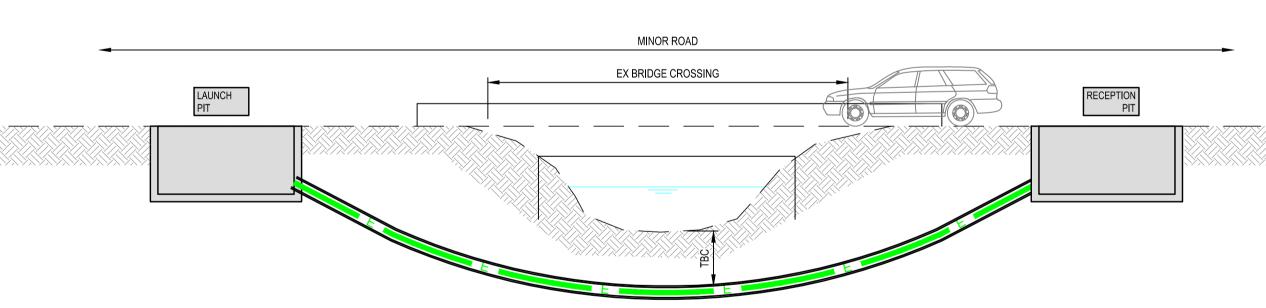
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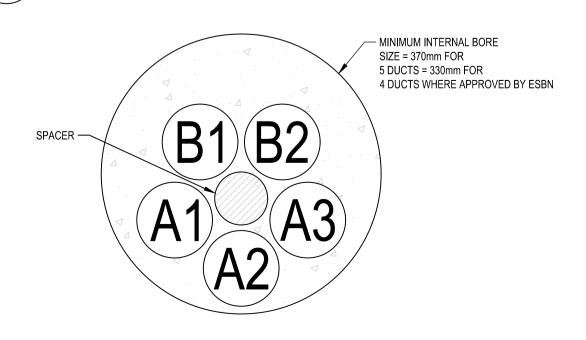
LEGEND

PLANNING BOUNDARY

EXISTING RIVERS LAKES:



TYPICAL SECTION A-A - CROSSING NO. 1, 4, 6, 8, 10, 12, 13 & 14 - HDD LONGITUDINAL SECTION



A = 140mm: OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR-11 (POWER) B = 125mm: OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR-11 (COMMS) ALL INTERSTITIAL SPACE TO BE BENTONITED THOROUGHLY TO MAINTAIN CABLE RATING. ACCURATELY RECORD CROSSING LOCATION & ERECT MARKER POSTS

- HDD SLEEVE CROSS SECTION

PROPOSED 4 No 110Ø ELEC DUCTS CROSSING BRIDGE -

FURTHER ASSESSMENT.

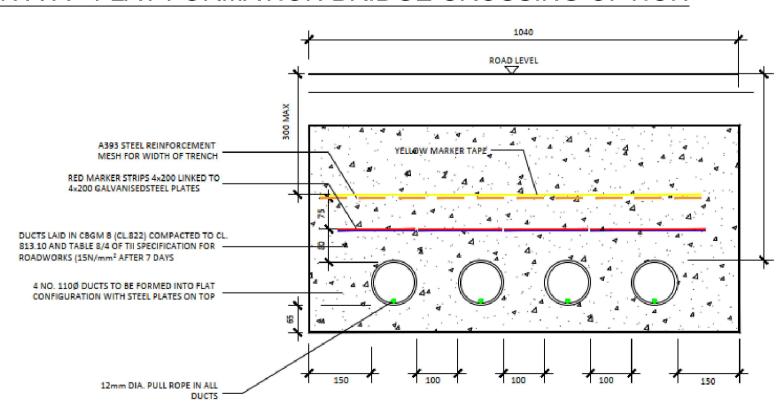
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EX. ROAD

TYPICAL SECTION A-A - FLAT FORMATION BRIDGE CROSSING OPTION

CROSSING DETAIL USED DEPENDS ON LOCAL CONDITIONS



Typical Ducting Detail in Flat Formation

SCALE - 1:10

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L					_
P02	19.12.2023	DETAILS REVISED		Y.M.	M.D.
P01	01.12.2023	FIRST ISSUE		Y.M.	M.D.
REV	DATE	DESCRIPTION		С	Α
PROJE	ст No. 0959	PLANNING			

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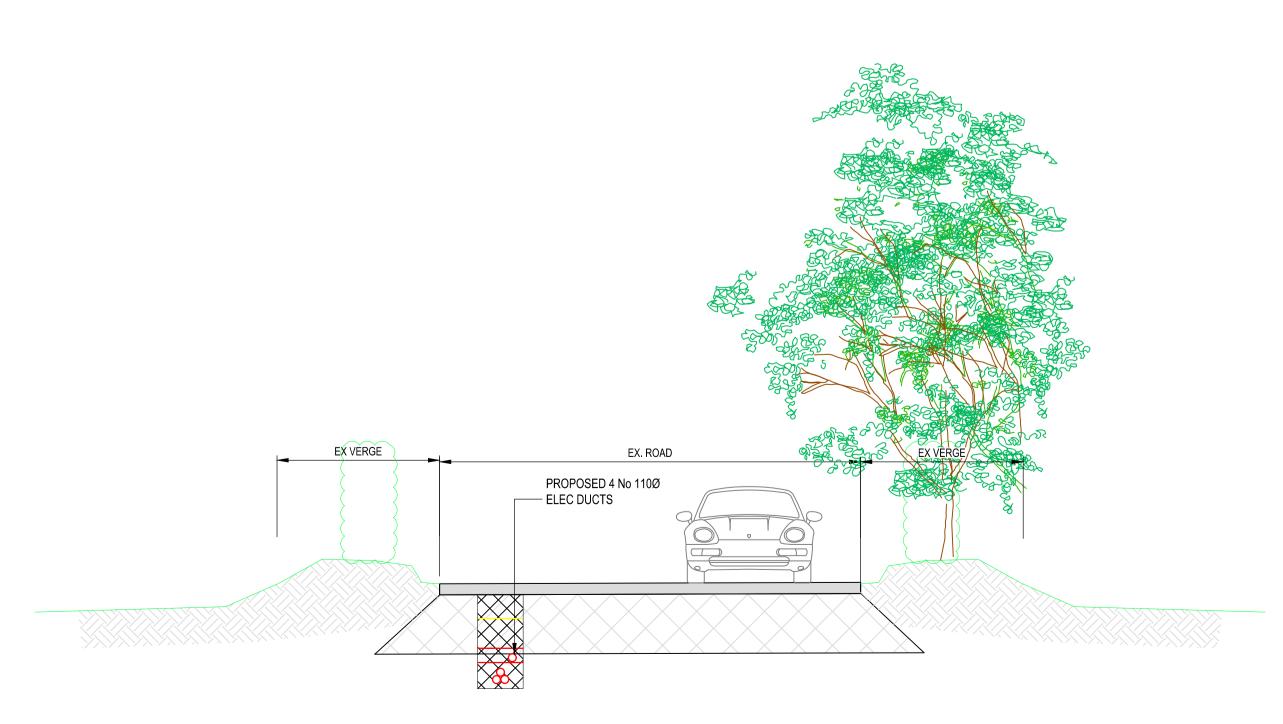
OATFIELD WINDFARM **PROJECT** 

INDEPENDENT POWER PRODUCER (IPP) CABLE CROSSINGS 1, 4, 6, 8, 10, 12, 13 & 14

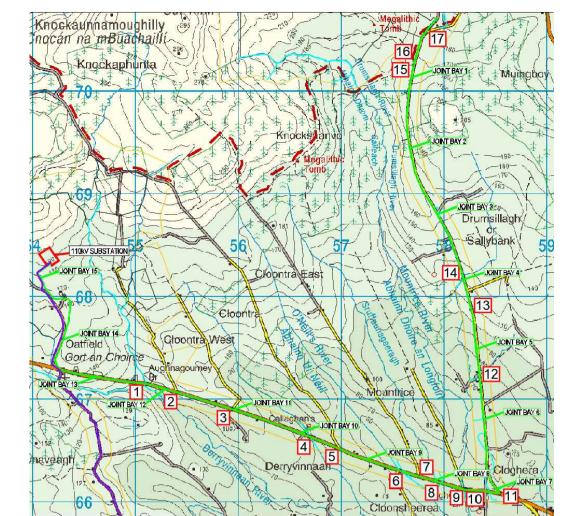
SCALES @ A1	DRAWN	CHECKED	APPROVED
	M Steyn	Y Mansoor	M Dignam
AS SHOWN.	DATE	DATE	DATE
	01.12.2023	01.12.2023	01.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPTION		
S4	STAGE APPROVAL		



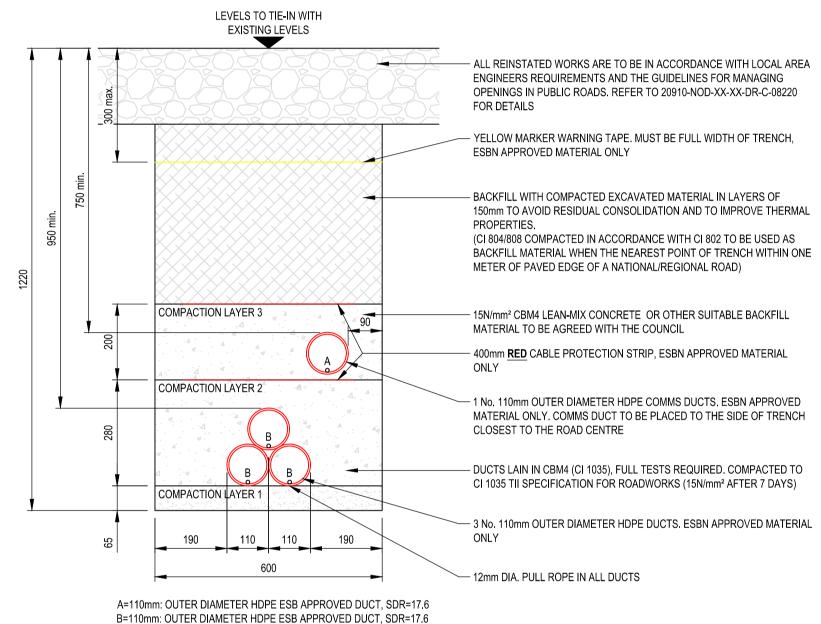
- CROSSING NO. 2, 3, 5, 7, 9, 11, 15, 16 & 17 - TYPICAL ROAD CROSSING



> SECTION A-A - CROSSING NO. 2, 3, 5, 7, 9, 11, 15, 16 & 17 - ROAD CROSSING



# - INDEPENDENT POWER PRODUCER (IPP) CABLE ROUTE



TYPICAL TRENCH DETAIL

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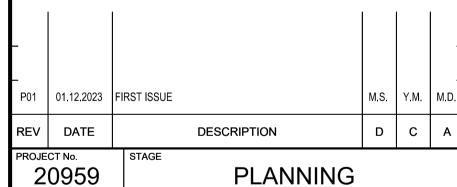
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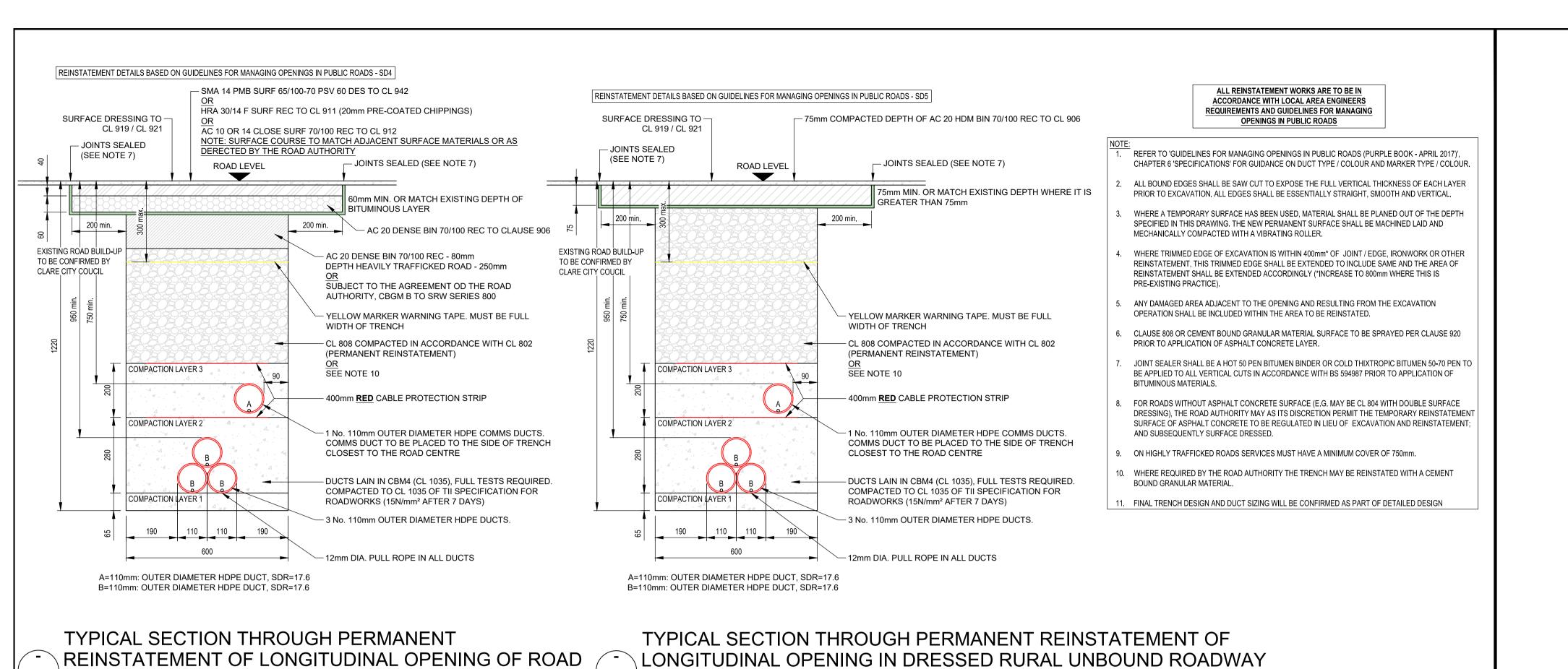
OATFIELD WINDFARM

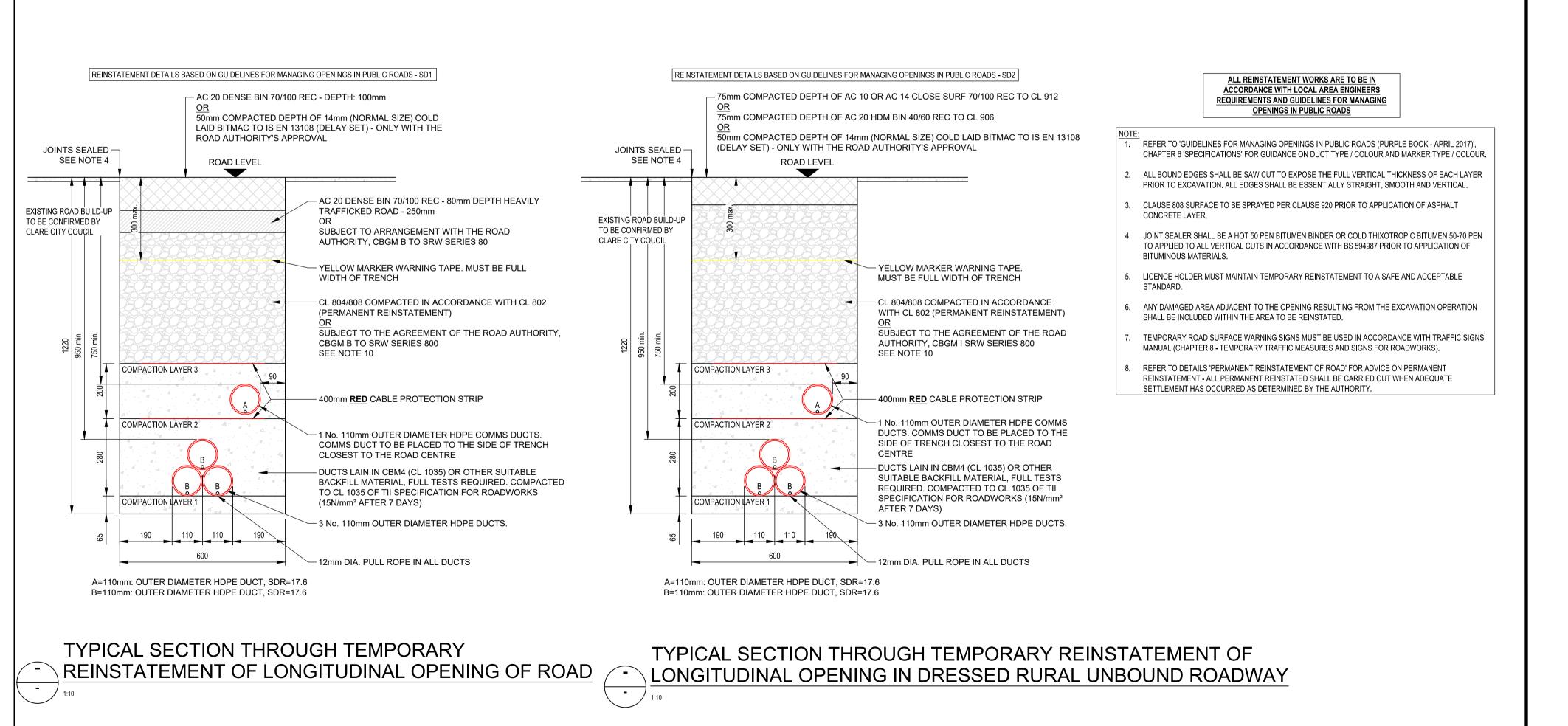
**PROJECT** 

INDEPENDENT POWER PRODUCER (IPP) CABLE CROSSINGS 2, 3, 5, 7, 9, 11, 15, 16 &

SCALES @ A1	DRAWN	CHECKED	APPROVED
1:10	M Steyn	Y Mansoor	M Dignam
1:50	DATE	DATE	DATE
1:200	01.12.2023	01.12.2023	01.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPT	ION	
<b>C</b> 1	QTA/		<b>11///</b>

STAGE APPROVAL





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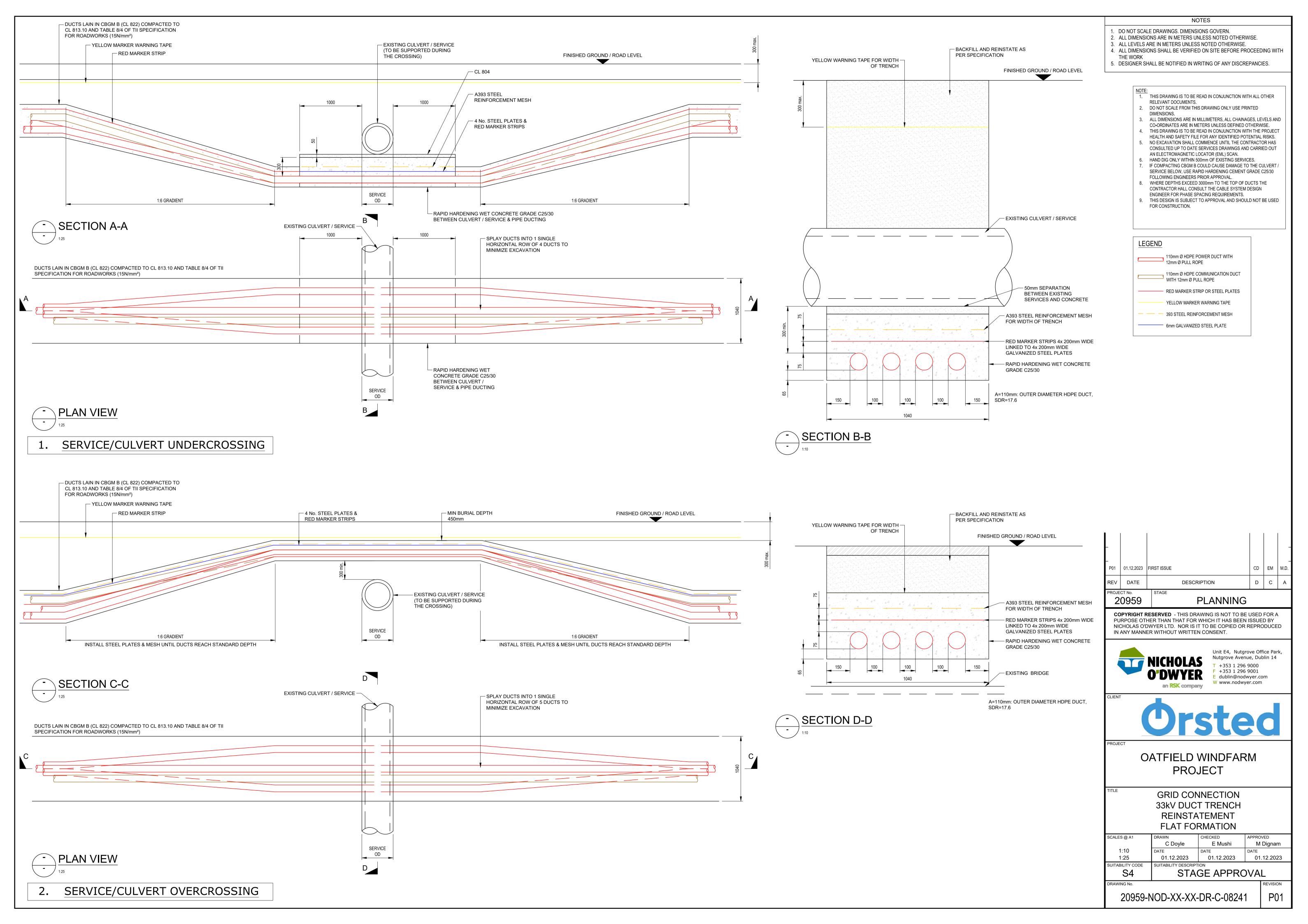
P01

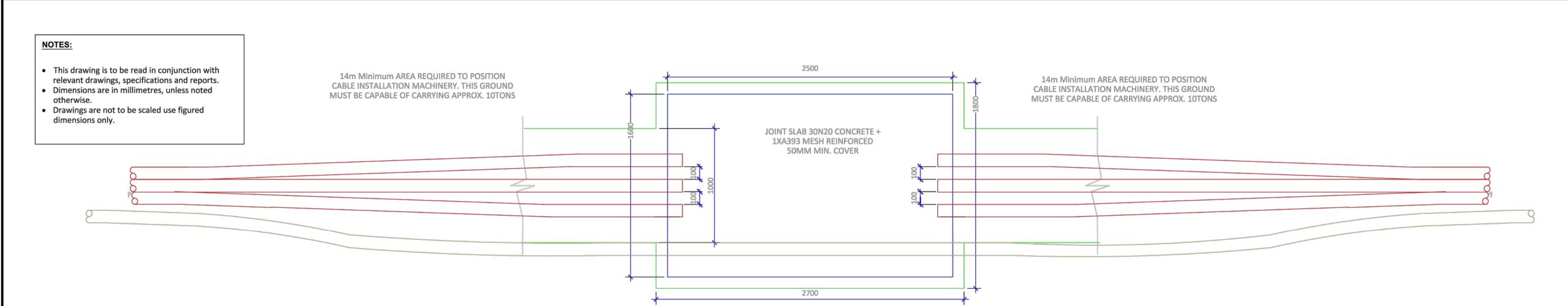
OATFIELD WINDFARM

OATFIELD WINDFARI PROJECT

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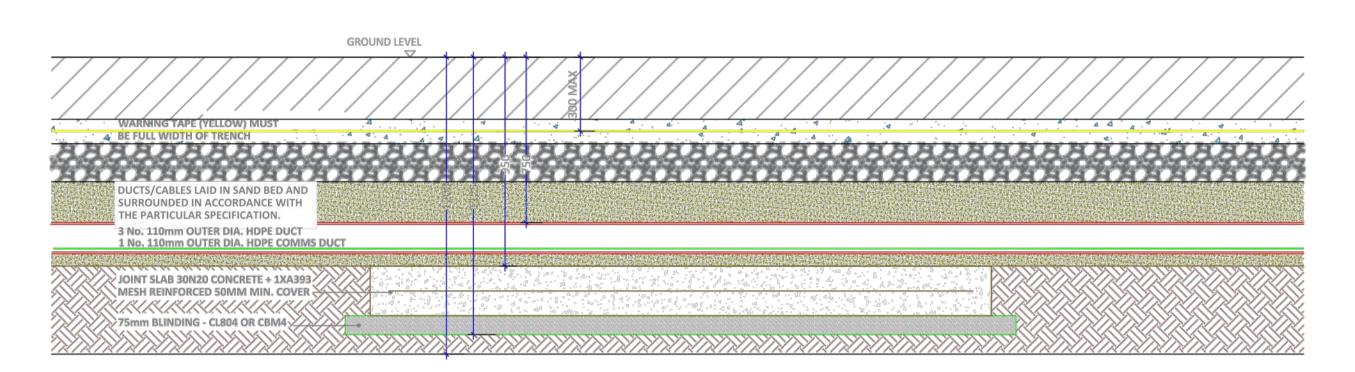
GRID CONNECTION 33kV DUCT TRENCH REINSTATEMENT





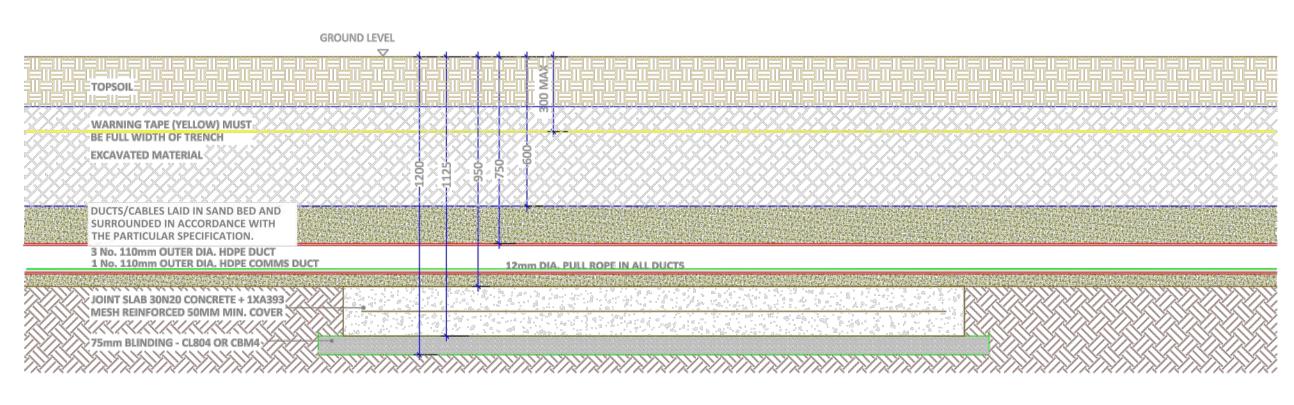
# Typical Joint Bay Slab Plan layout

**SCALE 1:20** 



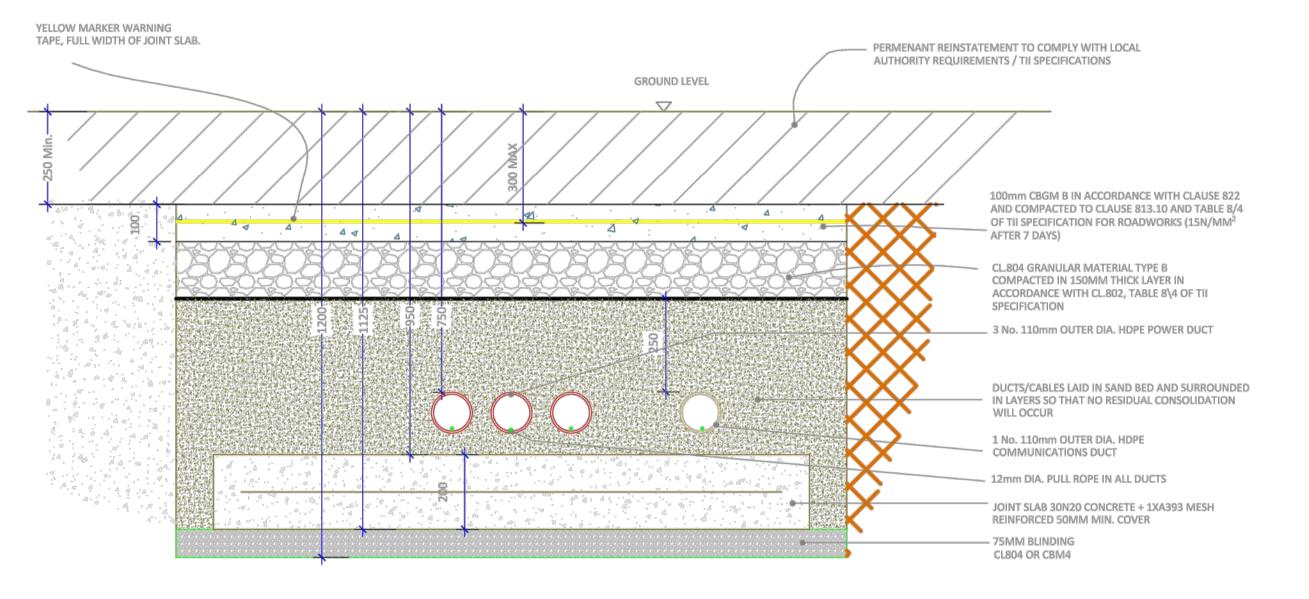
## Typical Roadway Elevation of Joint Bay Slab Ducting detail

**SCALE 1:15** 



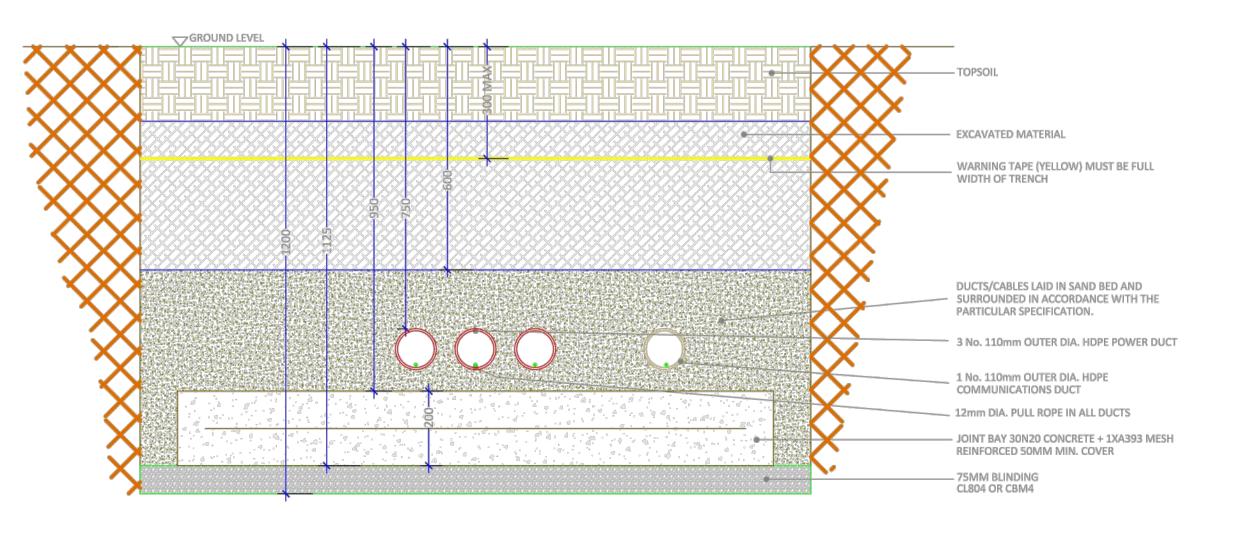
## Typical Off Road Elevation of Joint Bay Slab Ducting detail

SCALE 1:15



# Typical Joint Bay Slab for Through Road Ducting detail

SCALE 1:10



#### Typical Joint Bay Slab for Off Road Ducting detail

SCALE 1:10

20959 PLANN						
OJECT No. STAGE		STAGE	•			
EV	DATE	DESCRIPTION	D	С	Α	
)1	01.12.2023	FIRST ISSUE	CD	EM	M.D.	
)2	15.12.2023	DETAILS REVISED.	CD	EM	M.D.	

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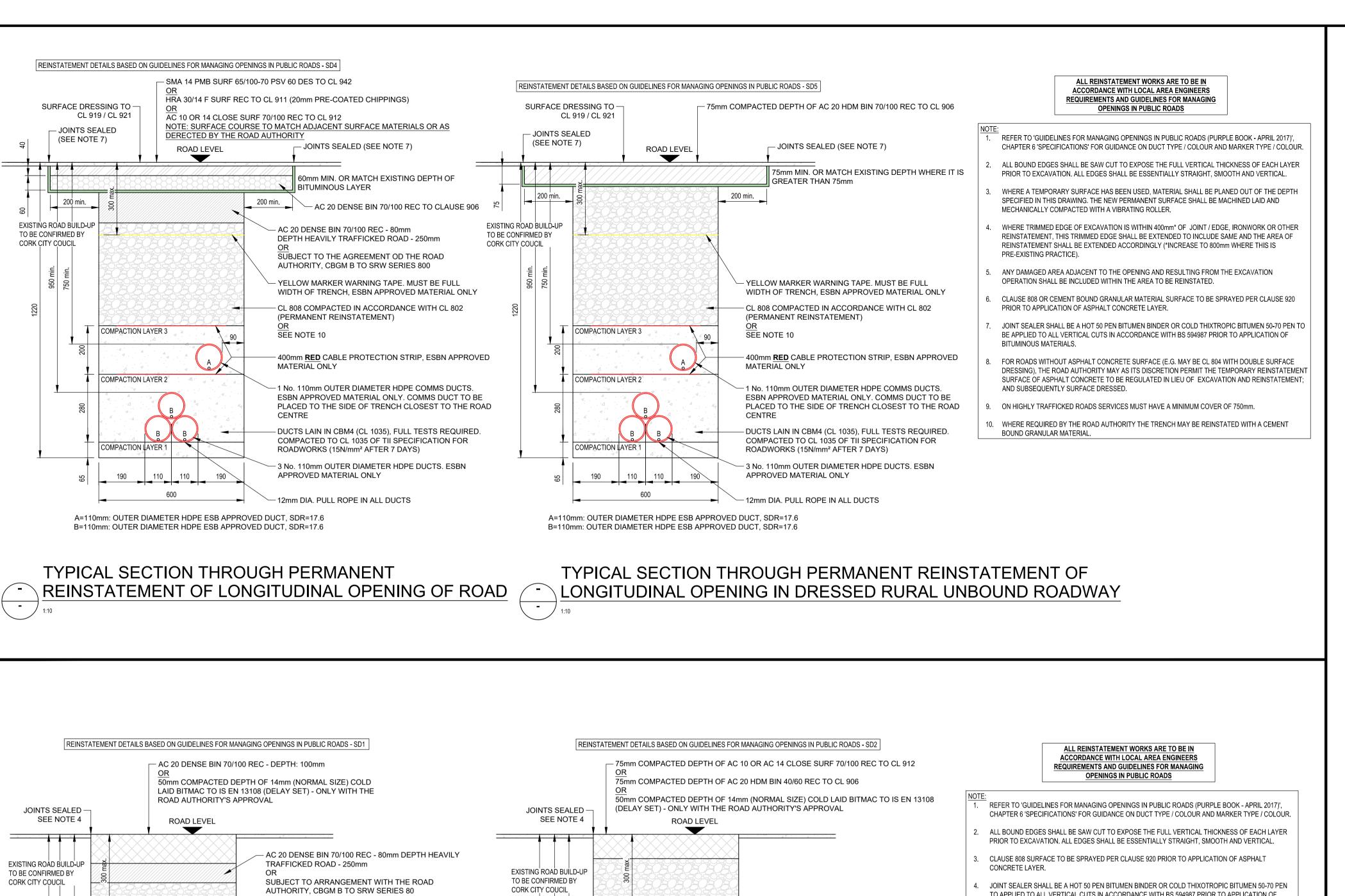
## OATFIELD WINDFARM PROJECT

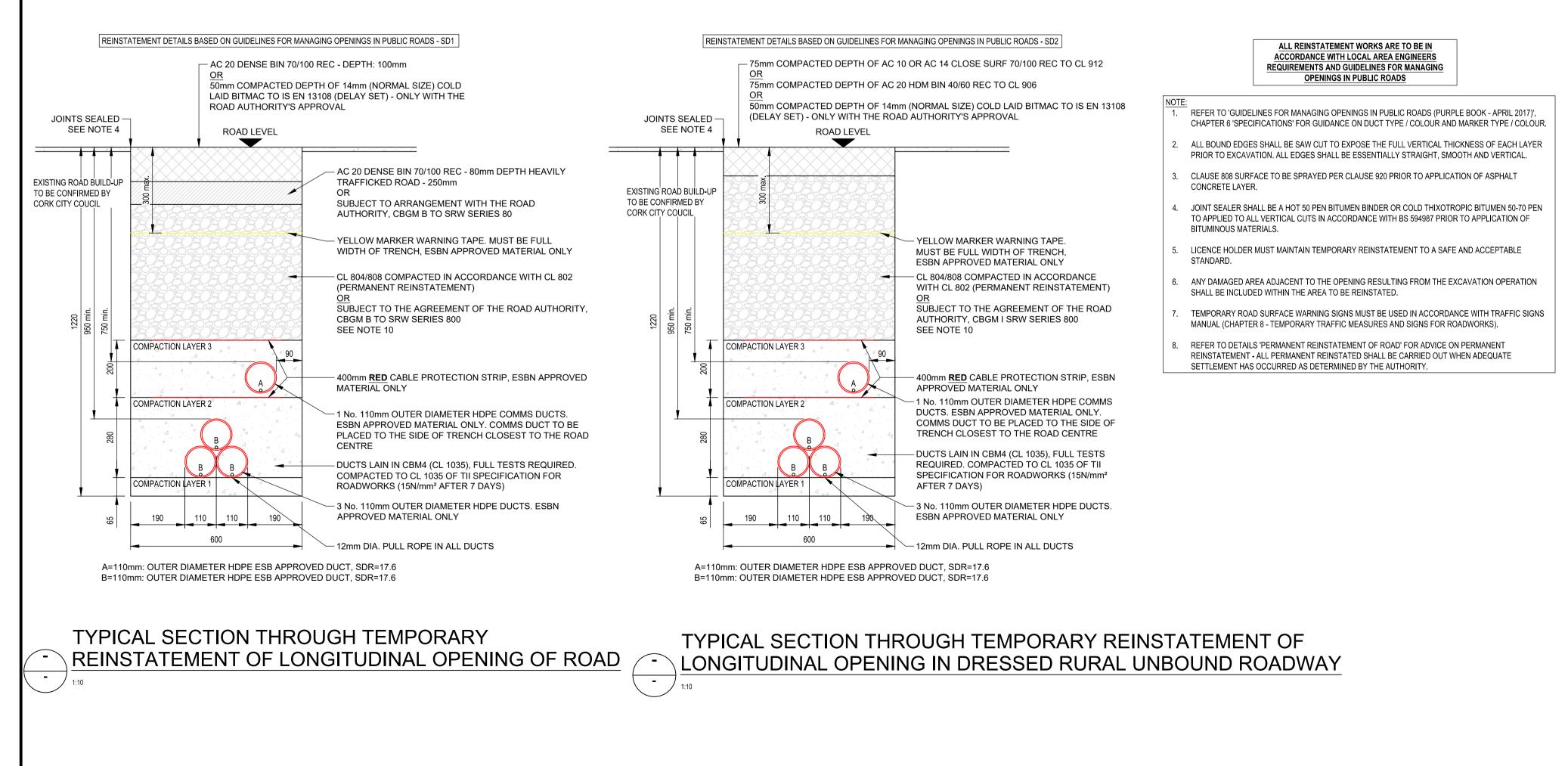
GRID CONNECTION
33kV JOINT BAY TYPICAL DETAILS

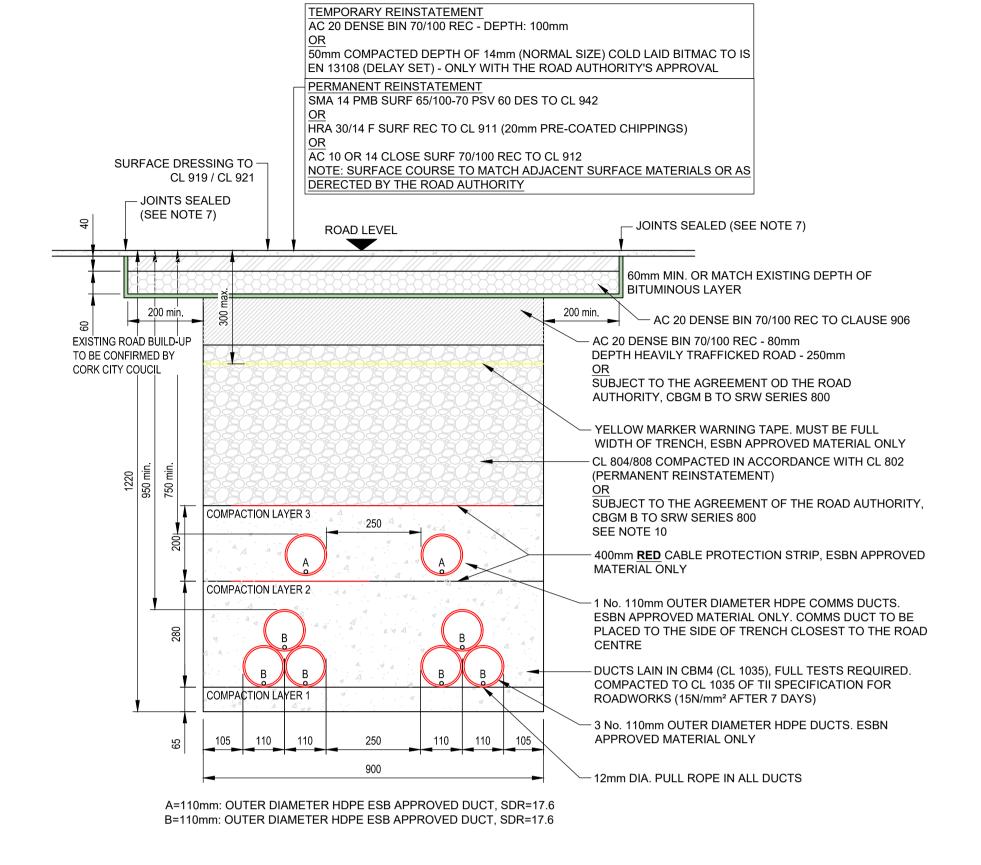
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	C Doyle	E Mushi	M Dignam
1:25	DATE	DATE	DATE
	01.12.2023	01.12.2023	01.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPTION		
S4	STAGE APPROVAL		

20959-NOD-XX-XX-DR-C-08242

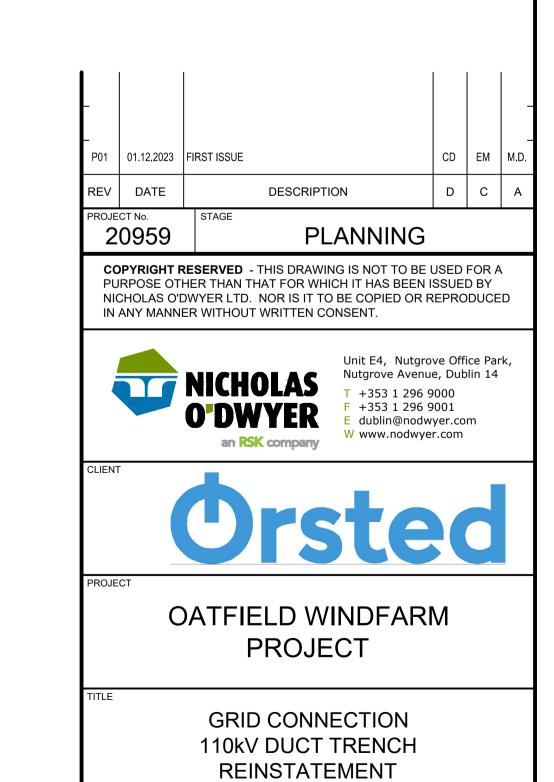
P02











E Mushi

01.12.2023

STAGE APPROVAL

C Doyle

01.12.2023

20959-NOD-XX-XX-DR-C-08243

M Dignam

01.12.2023

SCALES @ A1

JITABILITY CODE

NOTES

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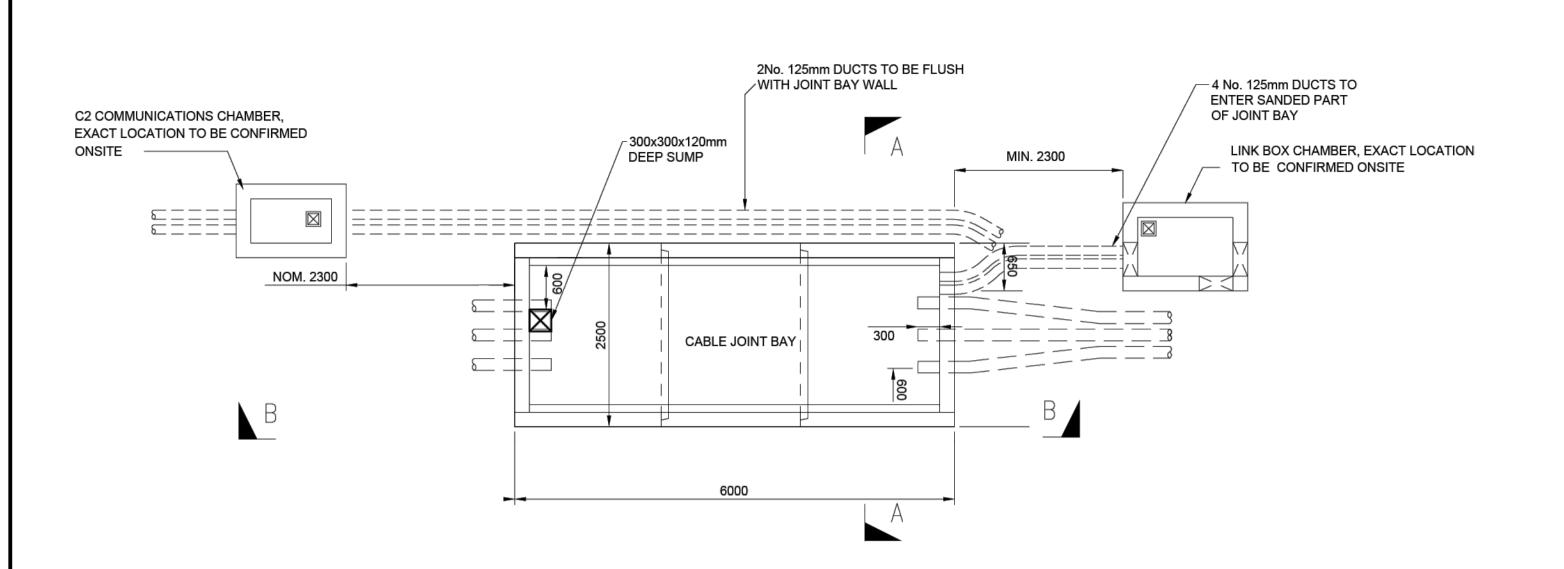
5. DESIGNER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

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THE WORK

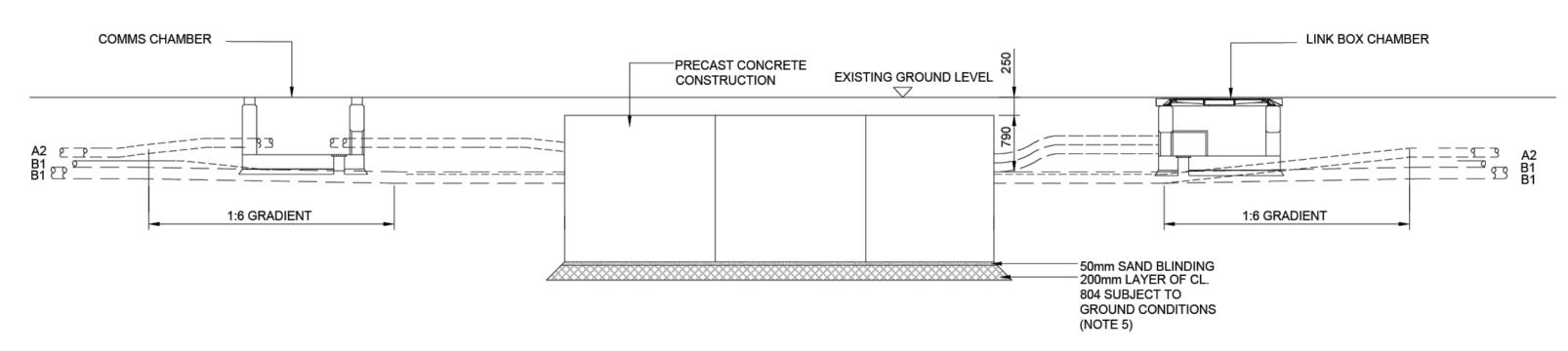
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ISOMETRIC VIEW PRECAST CHAMBER

SCALE 1:50



#### **SECTION B-B**

SCALE 1:50

#### 2500 EXISTING GROUND LEVEL VARIES DEPENDING ON ~ SITE GROUND CONDITIONS PRECAST CONCRETE CONCRETE C16/20 CONSTRUCTION 6) 6) 6) - 1000 ADDITIVE BY EIRGRID 1600 GRANULAR BACKFILL TO CL. 610 10 T HALFEN DEHA SPHERICAL LIFTING 50mm SAND BLINDING 200mm LAYER OF CL. 804 SUBJECT TO 30mmØ OPENING IN SLAB @ Ø125MM HDPE DUCT (COMMS) GROUND CONDITIONS Ø160MM HDPE DUCT

#### **SECTION A-A**

SCALE 1:50

#### **GENERAL NOTES:**

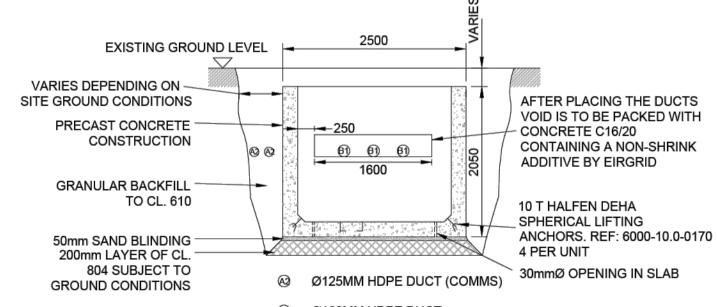
- THIS DESIGN IS SUBJECT TO EIRGRID DESIGN APPROVAL.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
- STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m2. SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS SHALL BE REQUIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE,

**PLAN VIEW** 

SCALE 1:50

- AND WHERE PEAT IS ENCOUNTERED, THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE. 6. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE
- 7. ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
- 8. THE DEPTH FROM GROUND LEVELTO THE TOP OF THE CONCRETE WALL SHALL BE
  - 500MM IN CULTIVATED FIELDS & GRASS LAND 300MM - IN PAVED ROADS AND GRASS VERGES
- 350MM IN PAVED CITY ROADS AND GRASS VERGES
- 9. LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD
- 10. LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID

PRIOR TO INSTALLATION



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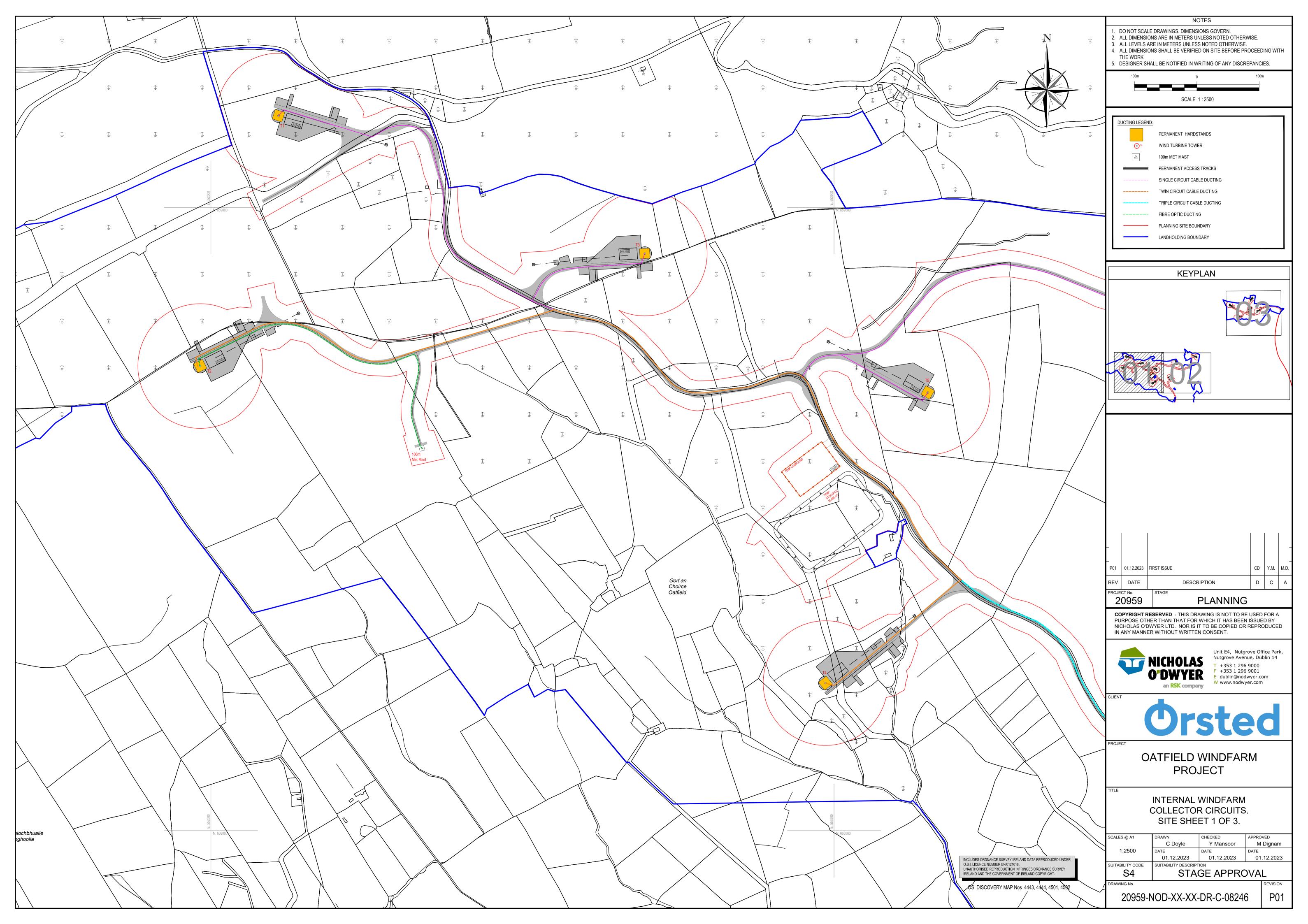
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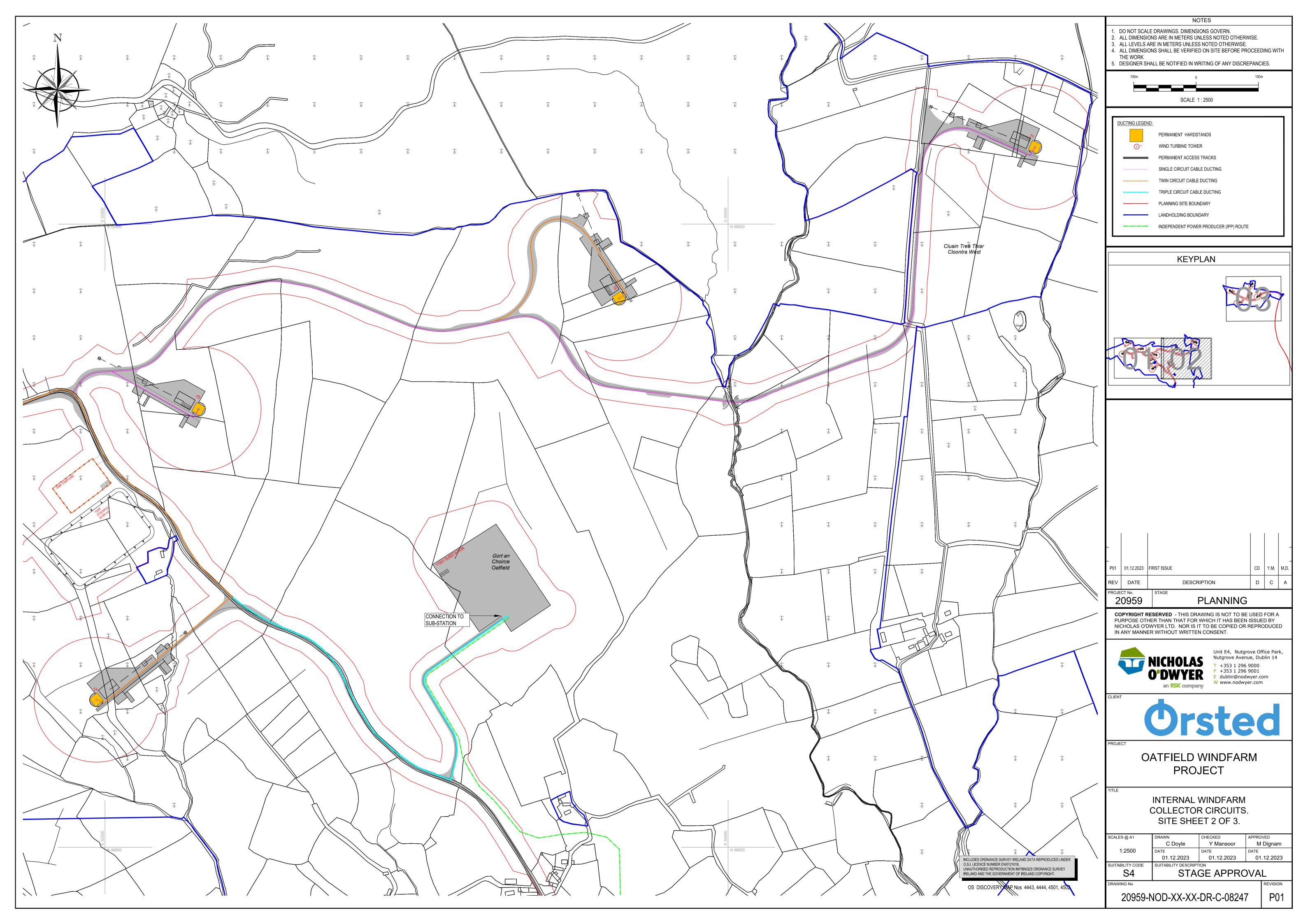


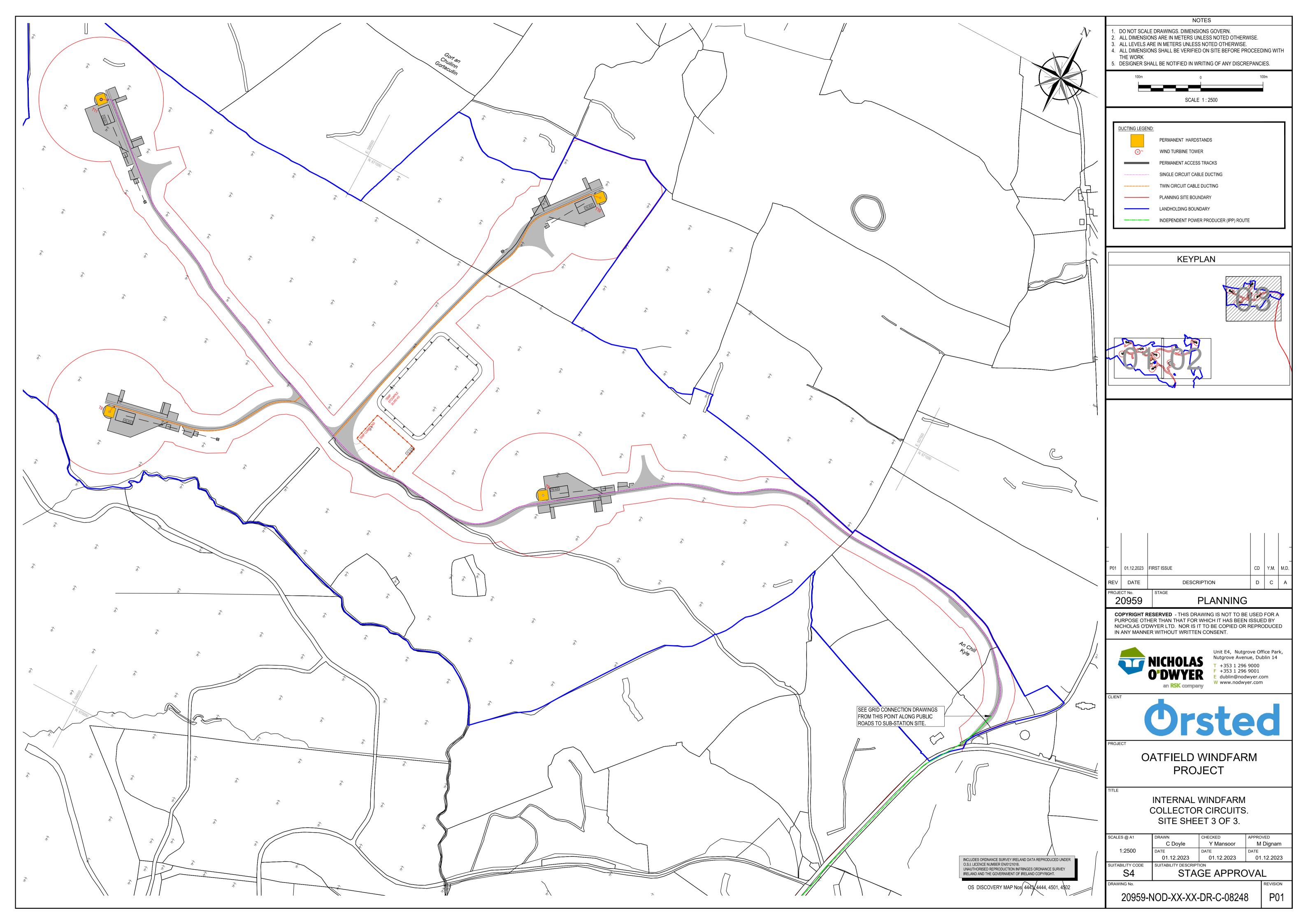
OATFIELD WINDFARM **PROJECT** 

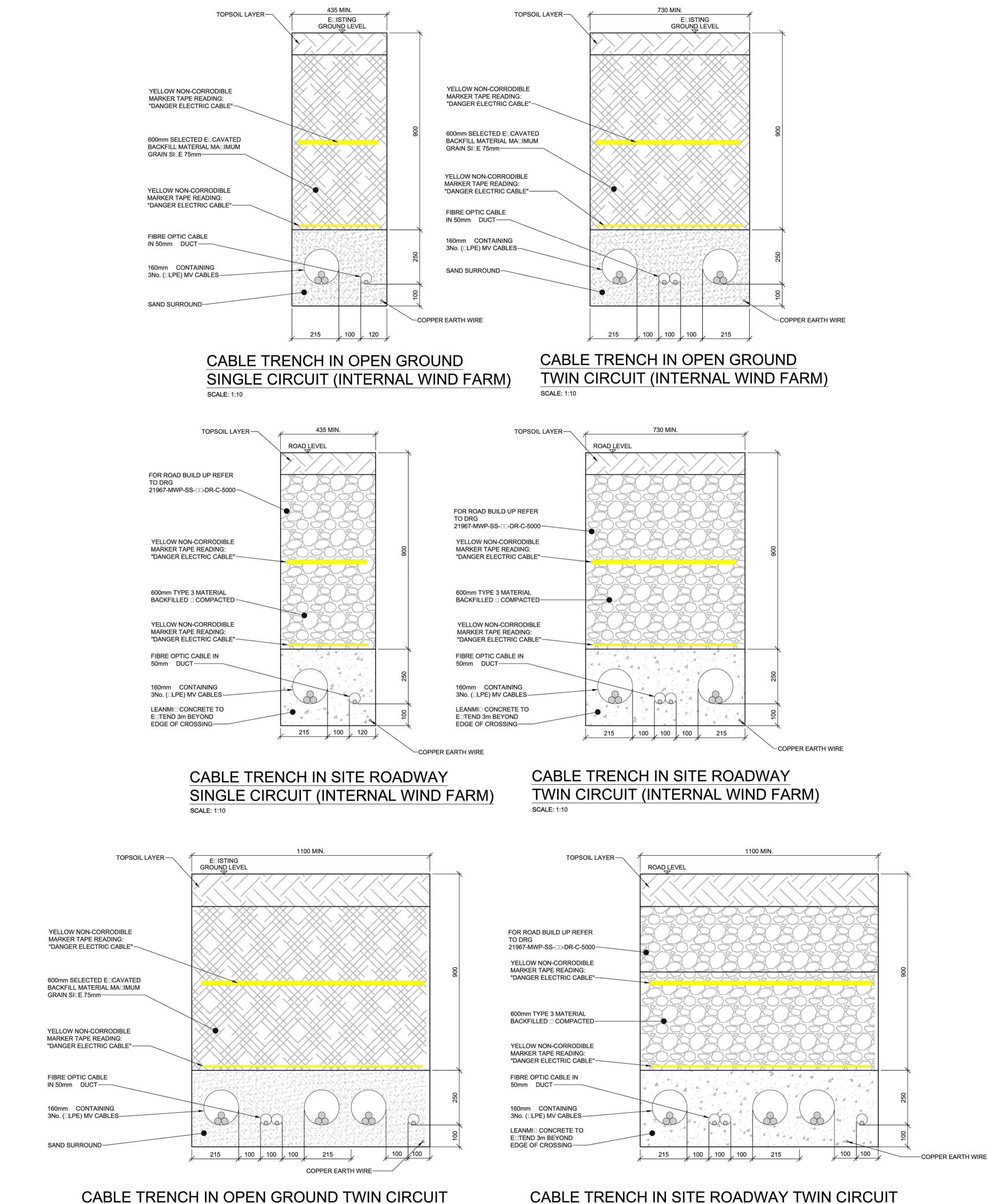
GRID CONNECTION 110kV JOINT BAY TYPICAL **DETAILS** 

SCALES @ A1 E Mushi M Dignam C Doyle 01.12.2023 01.12.2023 01.12.2023 ITABILITY CODE STAGE APPROVAL









WITH MET MAST DUCT (INTERNAL WIND FARM)

WITH MET MAST DUCT (INTERNAL WIND FARM)

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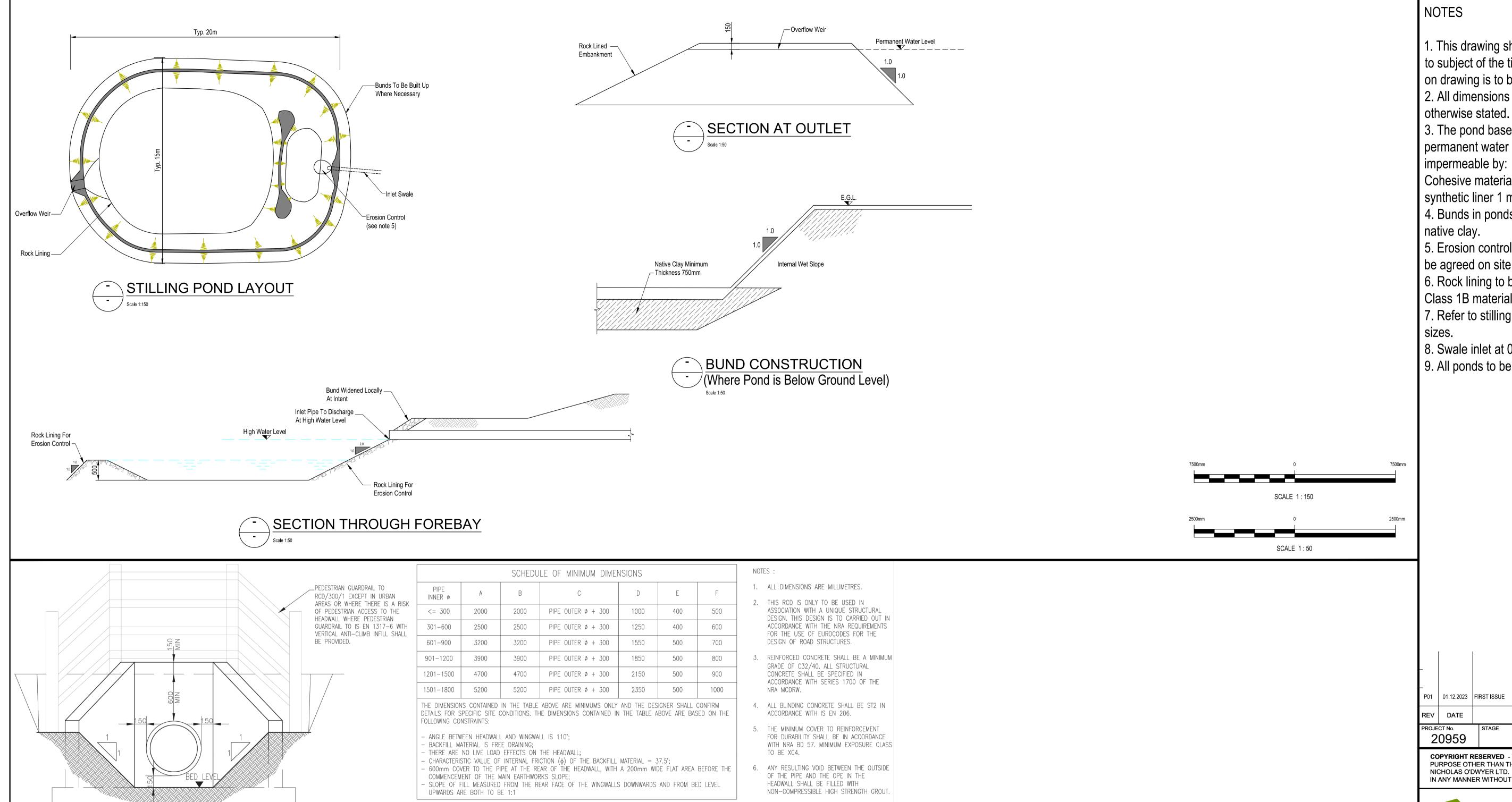


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OATFIELD WINDFARM **PROJECT** 

**GRID CONNECTION -**GRID ROUTE WITHIN WINDFARM SITE. CABLE TRENCH & CROSSING DETAILS

SCALES @ A1 CHECKED M Steyn Y Mansoor M Dignam 01.12.2023 01.12.2023 01.12.2023 SUITABILITY CODE STAGE APPROVAL



7. ALL EXPOSED CONCRETE SURFACES FROM

U4/F4 FINISH. ALL OTHER CONCRETE SURFACES TO BE CLASS U1/F1 FINISH

8. HEADWALL WINGWALLS TO BE SLOPED AND

SHALL MAINTAIN A MINIMUM HEIGHT OF

9. RENDERED CONCRETE BLOCKWORK MAY BE USED AS AN ALTERNATIVE TO IN-SITU OR PRECAST CONCRETE FOR PIPES UP TO

10. ALL HEADWALLS SHALL BE BACKFILLED WITH CLASS 6N1, 6N2 OR 6P BACKFILL MATERIAL.

> HEADWALLS SHALL BE FOUNDED ON A MINIMUM 75mm LAYER OF ST2 BLINDING

CONCRETE. DETAILS OF THE SUB-BASE LAYER TO BE CONFIRMED BASED ON SITE

11. ROCK ARMOUR AND/OR GABION HEADWALLS AND WINGWALLS ARE PROHIBITED.

150mm ABOVE ADJACENT BACKFILL LEVEL.

UNLESS OTHERWISE SPECIFIÉD.

300mm INNER DIAMETER.

CONDITIONS.

/1:1 SLOPE SHALL NOT START

GROUND LEVEL

BED LEVEL

75mm ST2

CONCRETE BLINDING

BEFORE THIS POINT

100mm BELOW GROUND LEVEL TO BE CLASS

MAIN EARTHWORKS

TYPICAL CULVERT DETAILS

05 N 250

SECTION A-A

PIPE INVERT LEVEL I

SLOPE

6N1, 6N2 OR 6P

Scale NTS

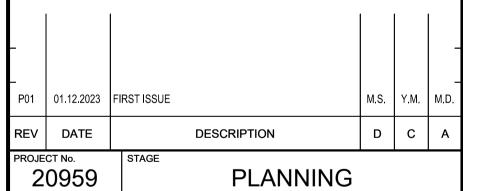
BACKFILL MATERIAL \

ELEVATION

PLAN

A/2

- 1. This drawing should only be read in relation to subject of the title. Other information shown on drawing is to be considered indicative only.
- 2. All dimensions are in millimetres unless otherwise stated.
- 3. The pond base and sides below the permanent water level should be made
- Cohesive material using native clay or a synthetic liner 1 mm LLDPE
- 4. Bunds in ponds to be constructed from
- 5. Erosion control to be rock lining. Extent to be agreed on site.
- 6. Rock lining to be a 125mm thickness of Class 1B material.
- 7. Refer to stilling pond schedules for pond
- 8. Swale inlet at 0.15 m below top of pond.
- 9. All ponds to be fenced off



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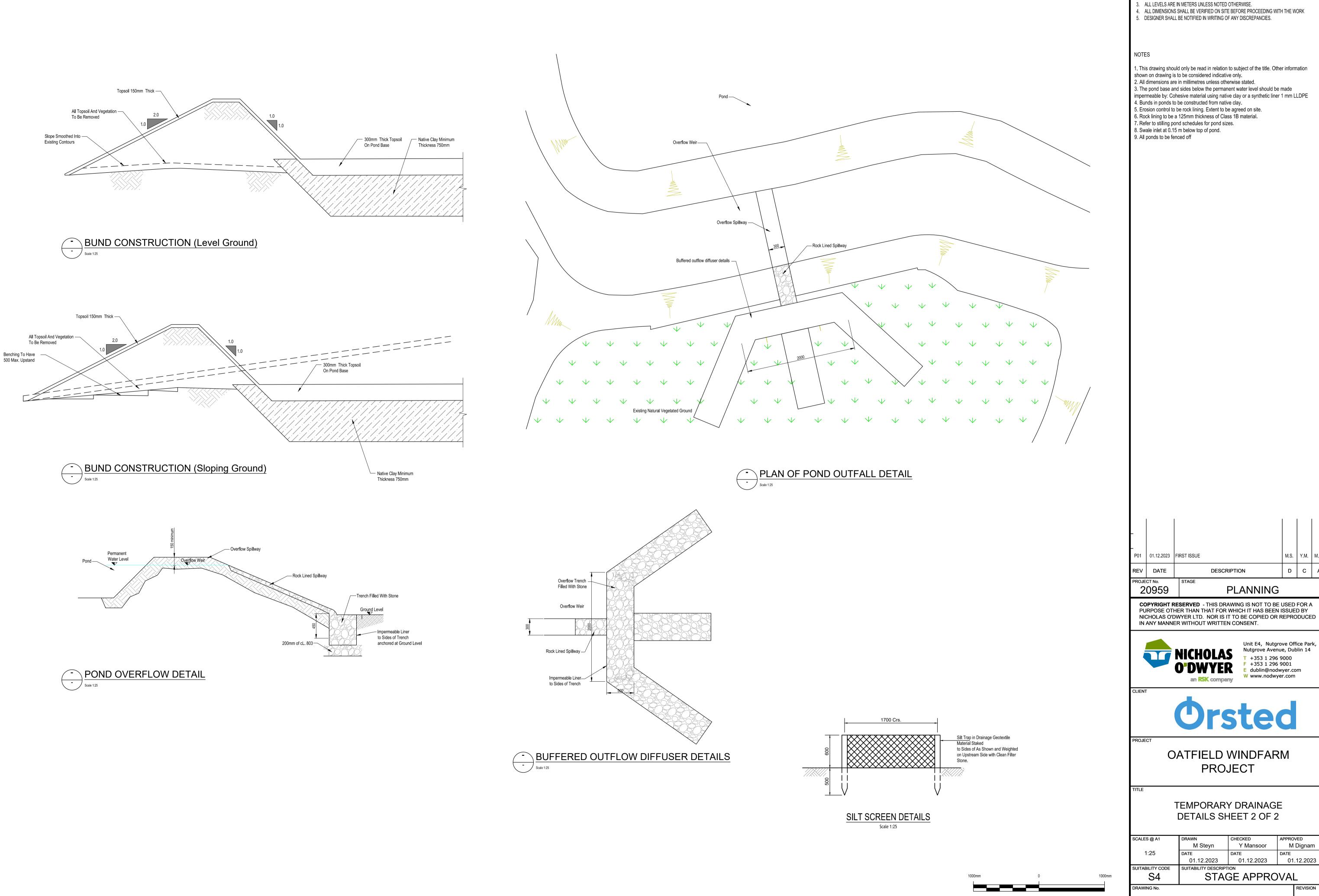
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Unit E4, Nutgrove Office Park,

## OATFIELD WINDFARM **PROJECT**

TEMPORARY DRAINAGE DETAILS SHEET 1 OF 2

DDAWING N	,		DEMOION.
S4	STAGE APPROVAL		
SUITABILITY CODE	SUITABILITY DESCRIPTION		
1:150	01.12.2023	01.12.2023	01.12.2023
1:50	DATE	DATE	DATE
	M Steyn	Y Mansoor	M Dignam
SCALES @ A1	DRAWN	CHECKED	APPROVED



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- 3. The pond base and sides below the permanent water level should be made
- impermeable by: Cohesive material using native clay or a synthetic liner 1 mm LLDPE 4. Bunds in ponds to be constructed from native clay.
- 5. Erosion control to be rock lining. Extent to be agreed on site.
- 6. Rock lining to be a 125mm thickness of Class 1B material.
- 7. Refer to stilling pond schedules for pond sizes.
- 8. Swale inlet at 0.15 m below top of pond.
- 9. All ponds to be fenced off

DATE DESCRIPTION D	С	Α
01.12.2023 FIRST ISSUE M.S.	Y.M.	– M.D.

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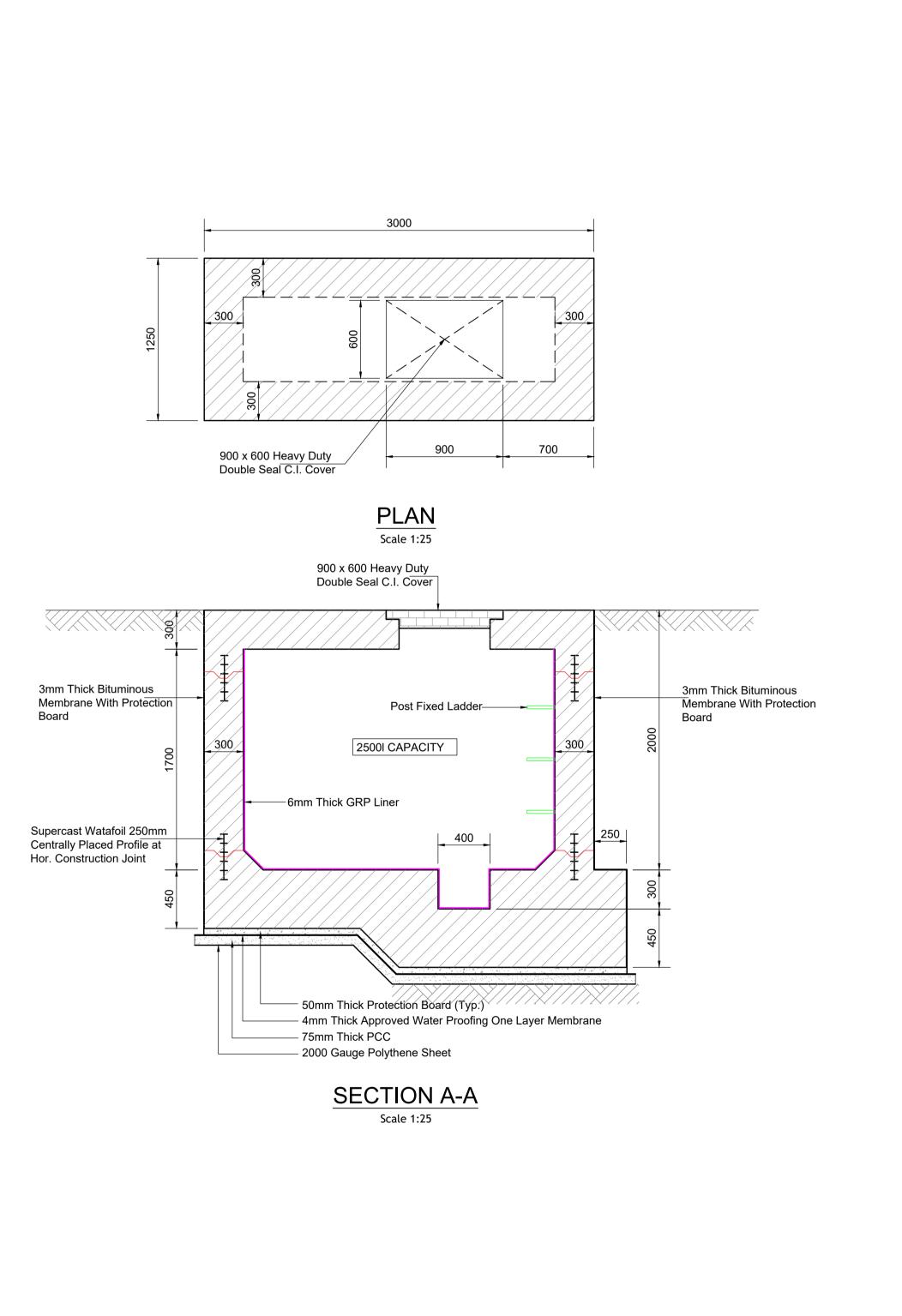
P01

OATFIELD WINDFARM PROJECT

SCALE 1:25

TEMPORARY DRAINAGE DETAILS SHEET 2 OF 2

SCALES @ A1	DRAWN	CHECKED	APPROVED	
	M Steyn	Y Mansoor	M Dignam	
1:25	DATE	DATE	DATE	
	01.12.2023	01.12.2023	01.12.2023	
SUITABILITY CODE	SUITABILITY DESCRIPTION			
S4	STAGE APPROVAL			



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REV	DATE		DESCRIPTION	D	С	Α	
PROJE	ст №. 0959	PLANNING					

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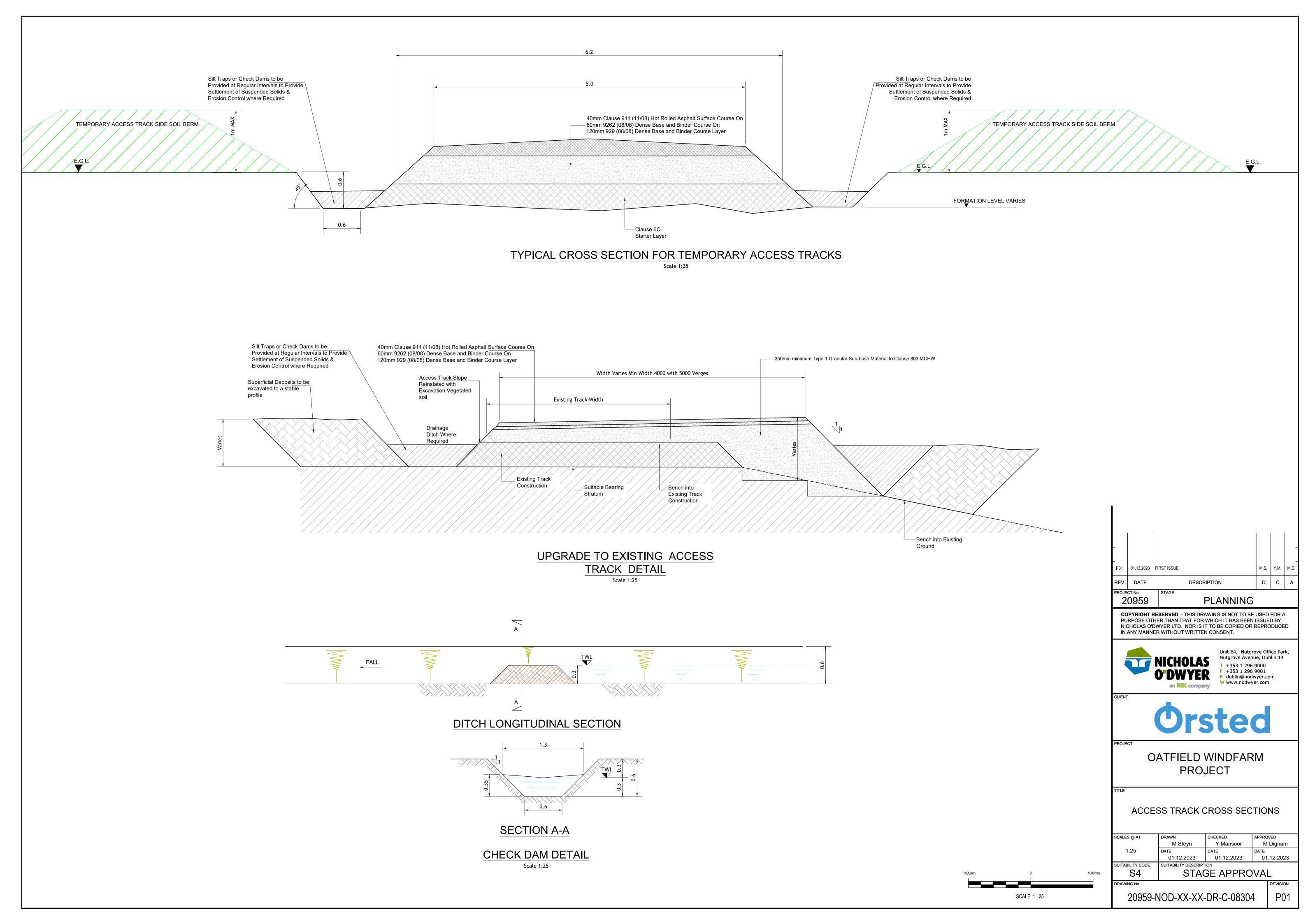


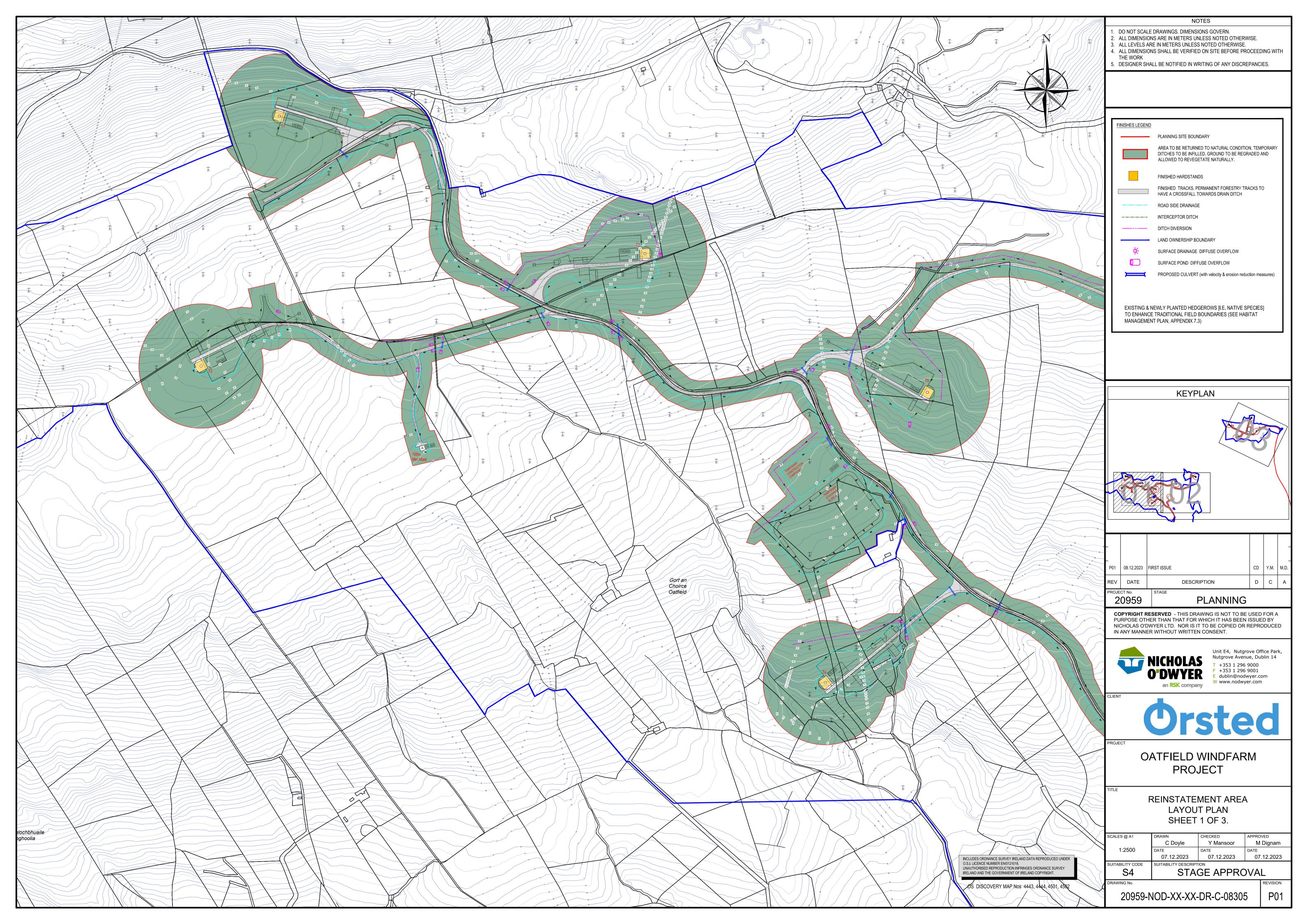
## OATFIELD WINDFARM PROJECT

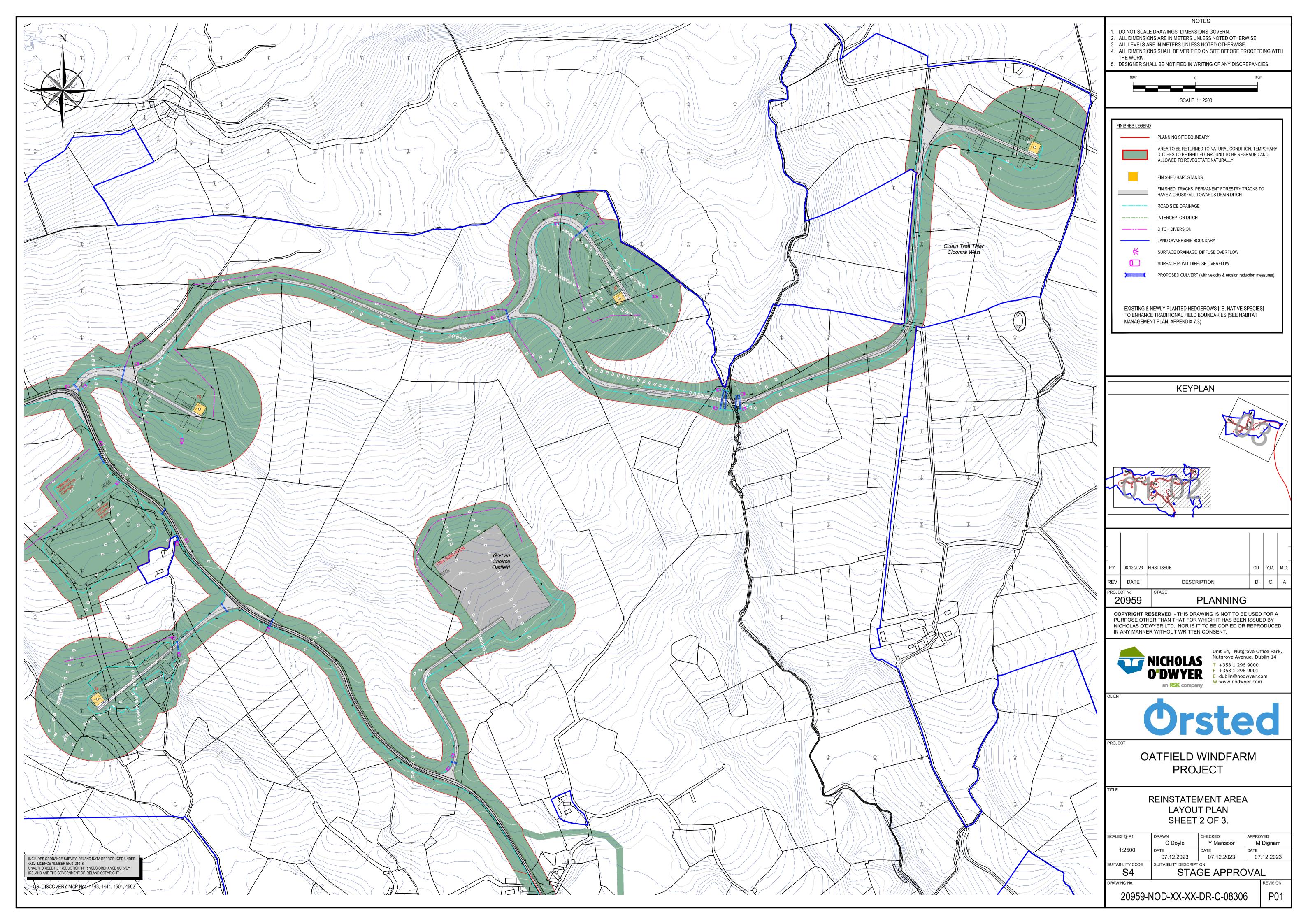
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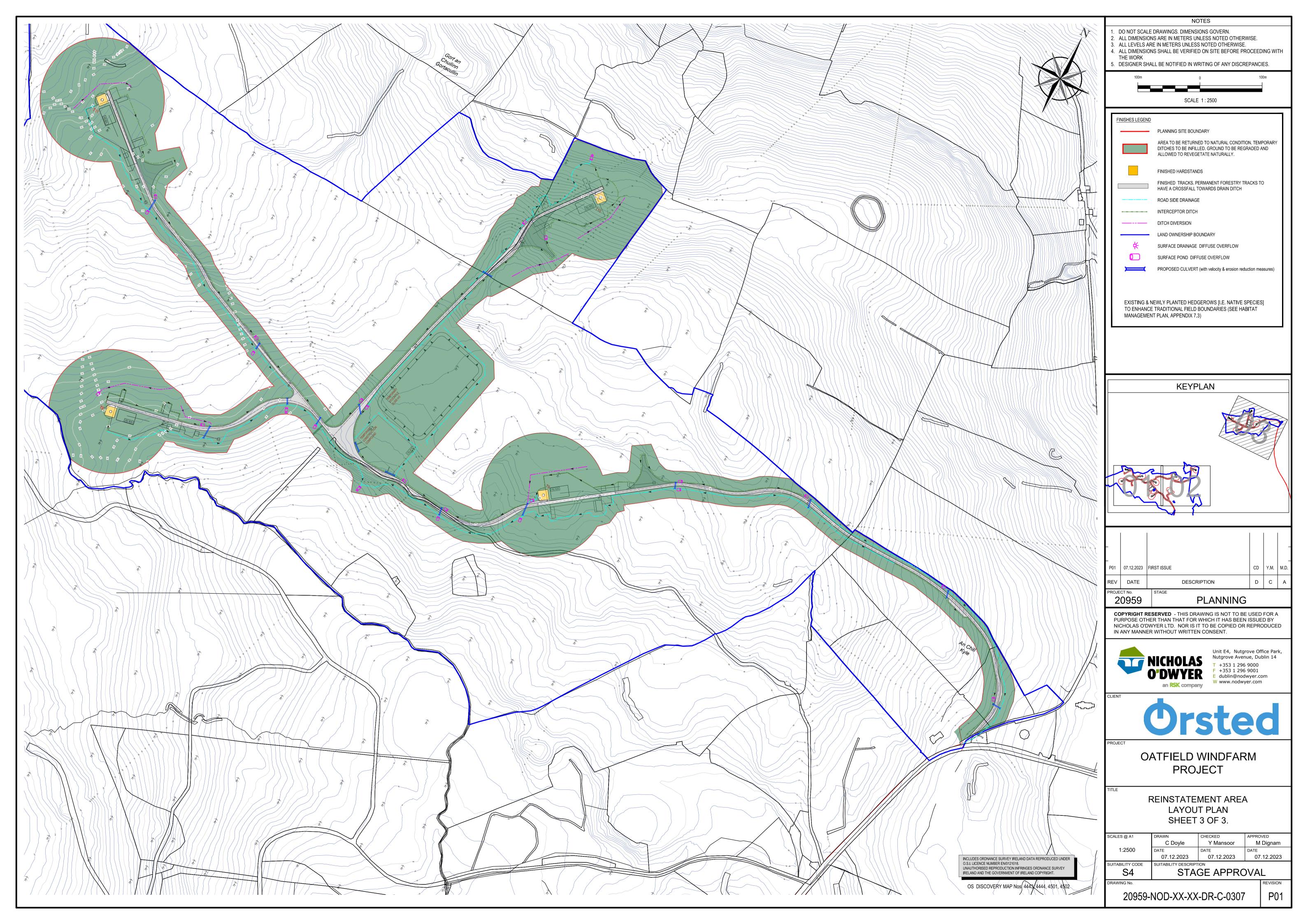
FOUL TANK DETAILS

SCALES @ A1	DRAWN	CHECKED	APPROVED
	M Steyn	Y Mansoor	M Dignam
1:25	DATE	DATE	DATE
	01.12.2023	01.12.2023	01.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPT	ION	
S4	STAGE APPROVAL		
	1:25	M Steyn  1:25  DATE  01.12.2023  SUITABILITY CODE  SUITABILITY DESCRIPT	M Steyn         Y Mansoor           1:25         DATE         DATE           01.12.2023         01.12.2023           SUITABILITY CODE         SUITABILITY DESCRIPTION

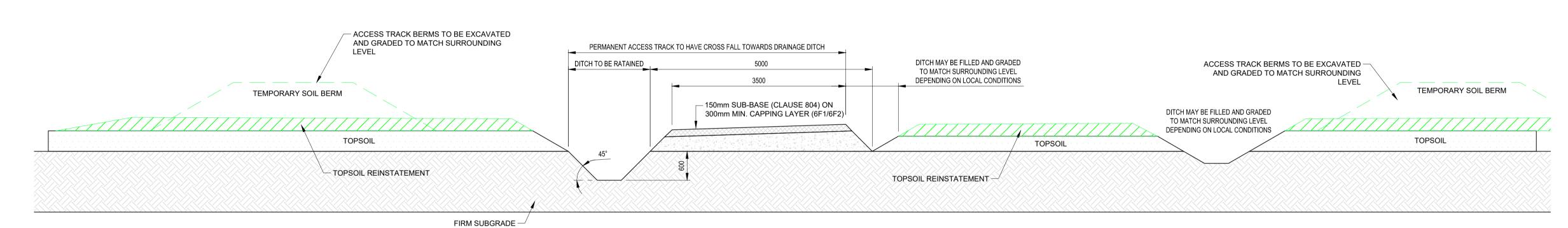








REINSTATEMENT SOIL TYPE: 300mm TOPSOIL GRASS SEEDED AS PER LANDSCAPE SPECIALIST EXCAVATED AREA FOR TEMPORARY ACCESS TRACK AND DRAINAGE DITCH TO BE GRADED TO MATCH SURROUNDING LEVEL - ACCESS TRACK BERMS TO BE EXCAVATED DITCH TO BE INFILLED & DITCH TO BE INFILLED & ACCESS TRACK BERMS TO BE EXCAVATED -GRADED TO MATCH GRADED TO MATCH AND GRADED TO MATCH SURROUNDING AND GRADED TO MATCH SURROUNDING SURROUNDING LEVEL SURROUNDING LEVEL LEVEL TEMPORARY SOIL BERM TEMPORARY SOIL BERM TOPSOIL TOPSOIL TOPSOIL REINSTATEMENT TOPSOIL REINSTATEMENT FIRM SUBGRADE — ☐ FIRM SUBGRADE TYPICAL CROSS SECTION FOR REINSTATEMENT OF TEMPORARY TRACKS



TYPICAL CROSS SECTION FOR REINSTATEMENT OF PERMANENT TRACKS

P01 01.12.2023 FIRST ISSUE M.S. Y.M. M.D. REV DATE DESCRIPTION PROJECT No. PLANNING

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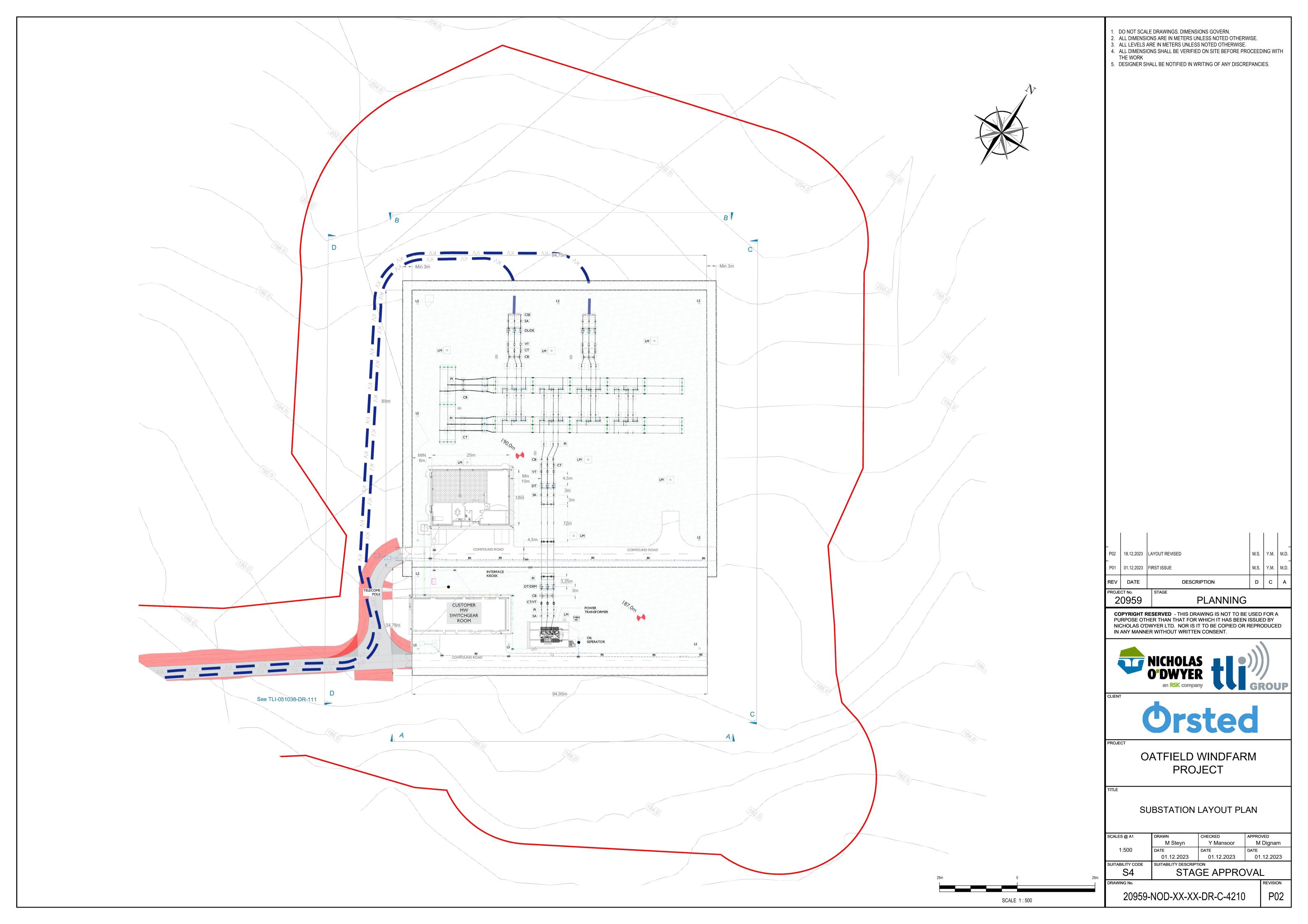
OATFIELD WINDFARM **PROJECT** 

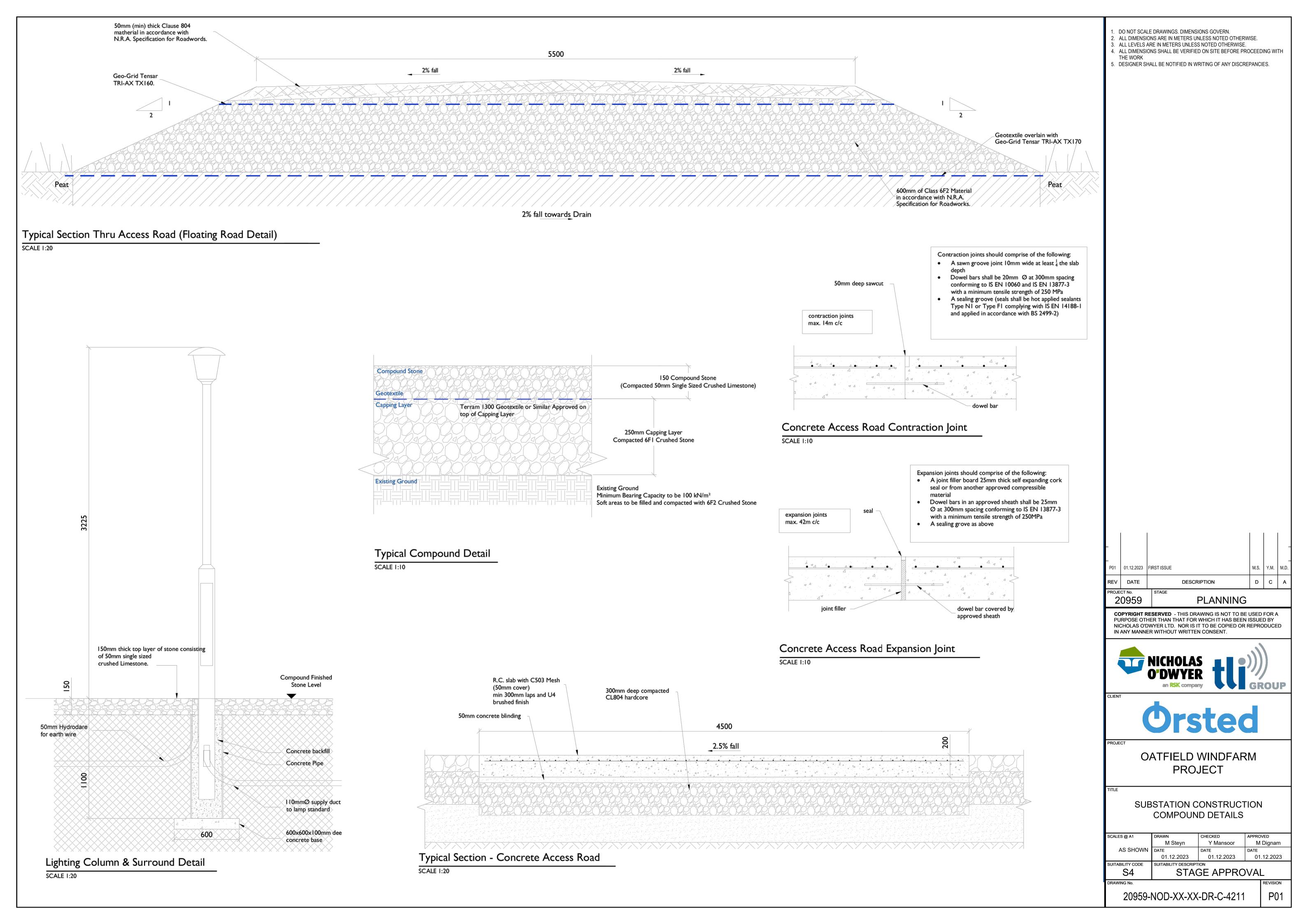
ACCESS TRACK REINSTATEMENT SECTIONS

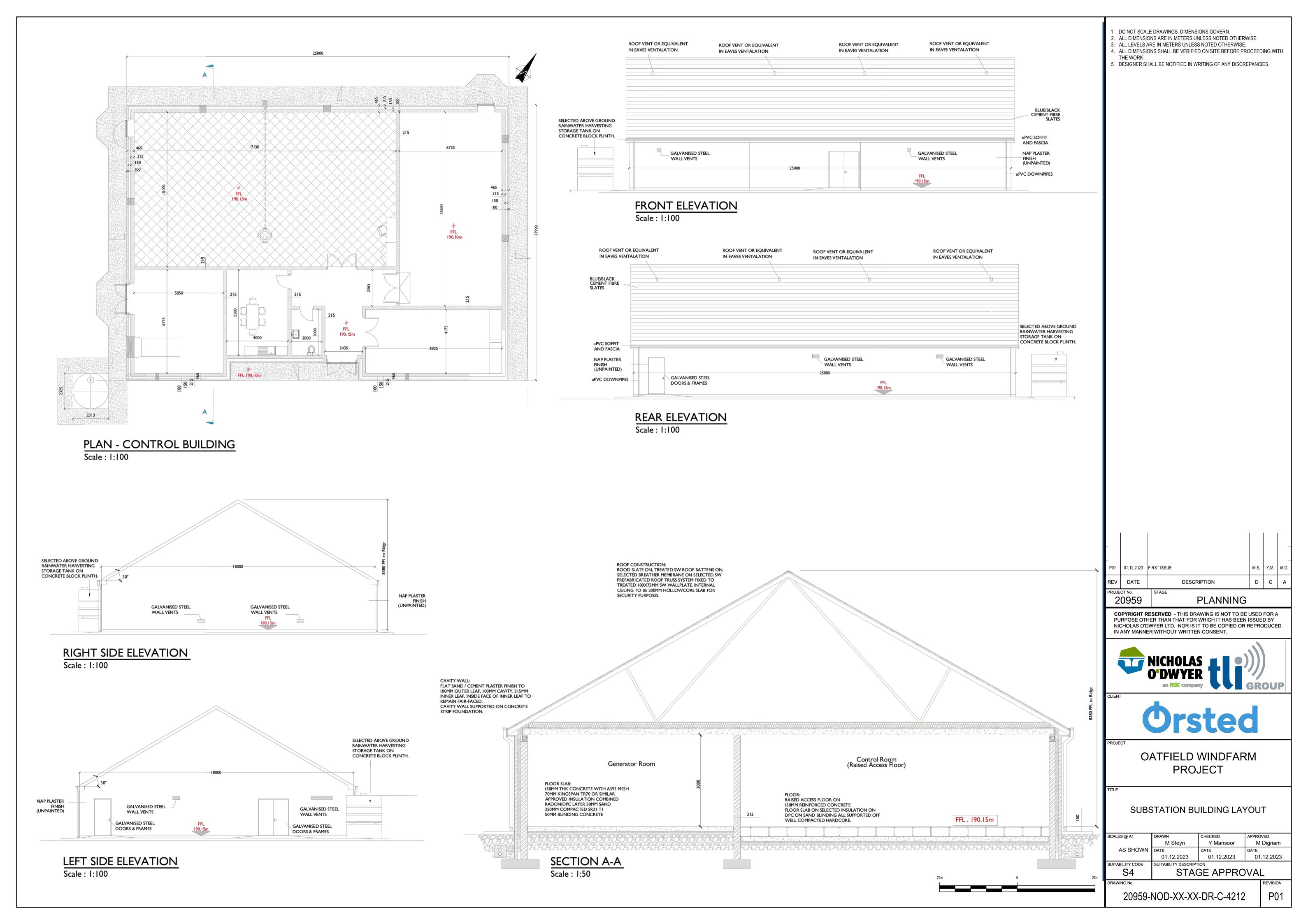
S4	STAGE APPROVAL			
SUITABILITY CODE	SUITABILITY DESCRIPT	ION		
	01.12.2023	01.12.2023	01.12.2023	
1:50	DATE	DATE	DATE	
	M Steyn	Y Mansoor	M Dignam	
SCALES @ A1	DRAWN	CHECKED	APPROVED	

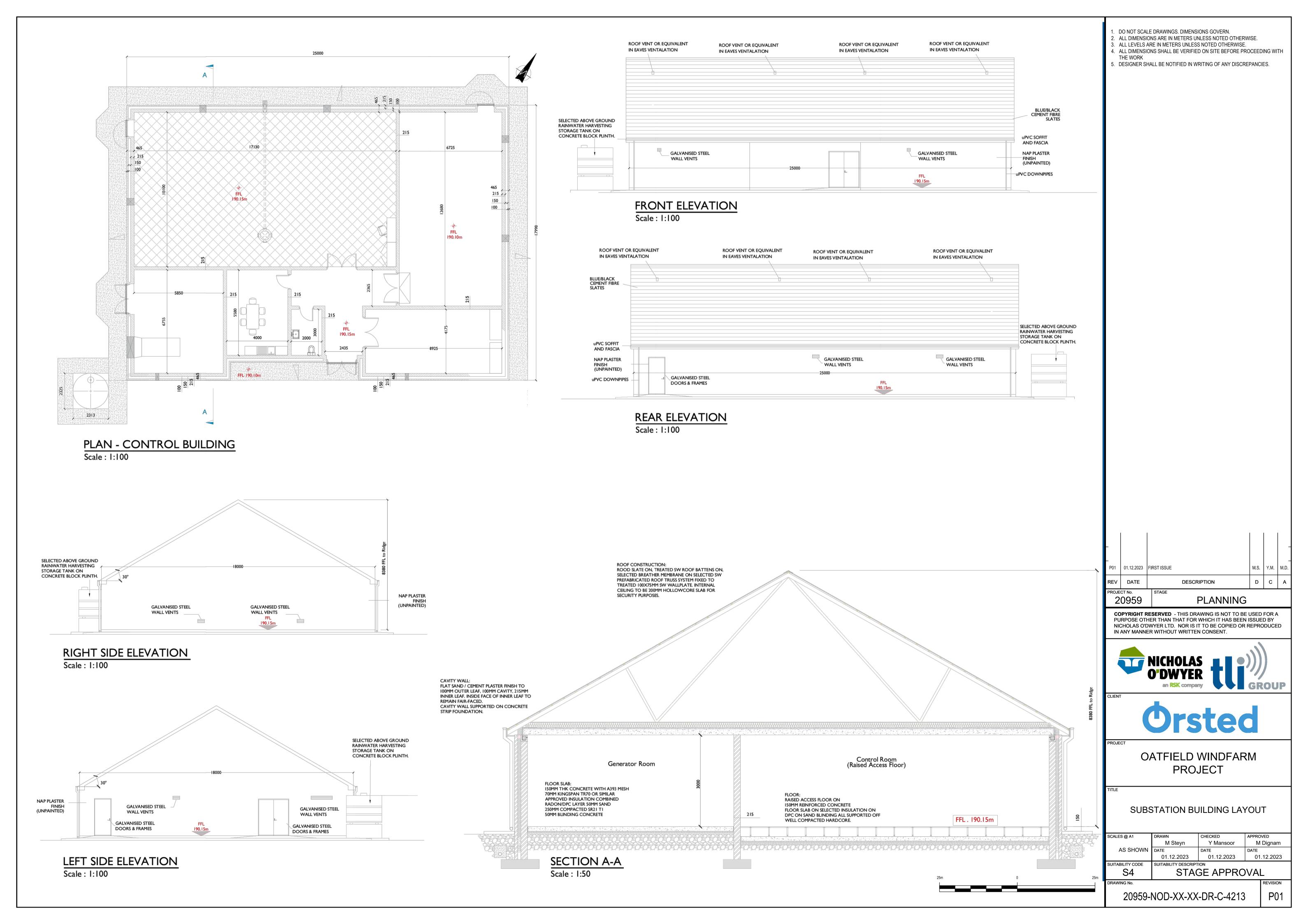
P01 20959-NOD-XX-XX-DR-C-08308

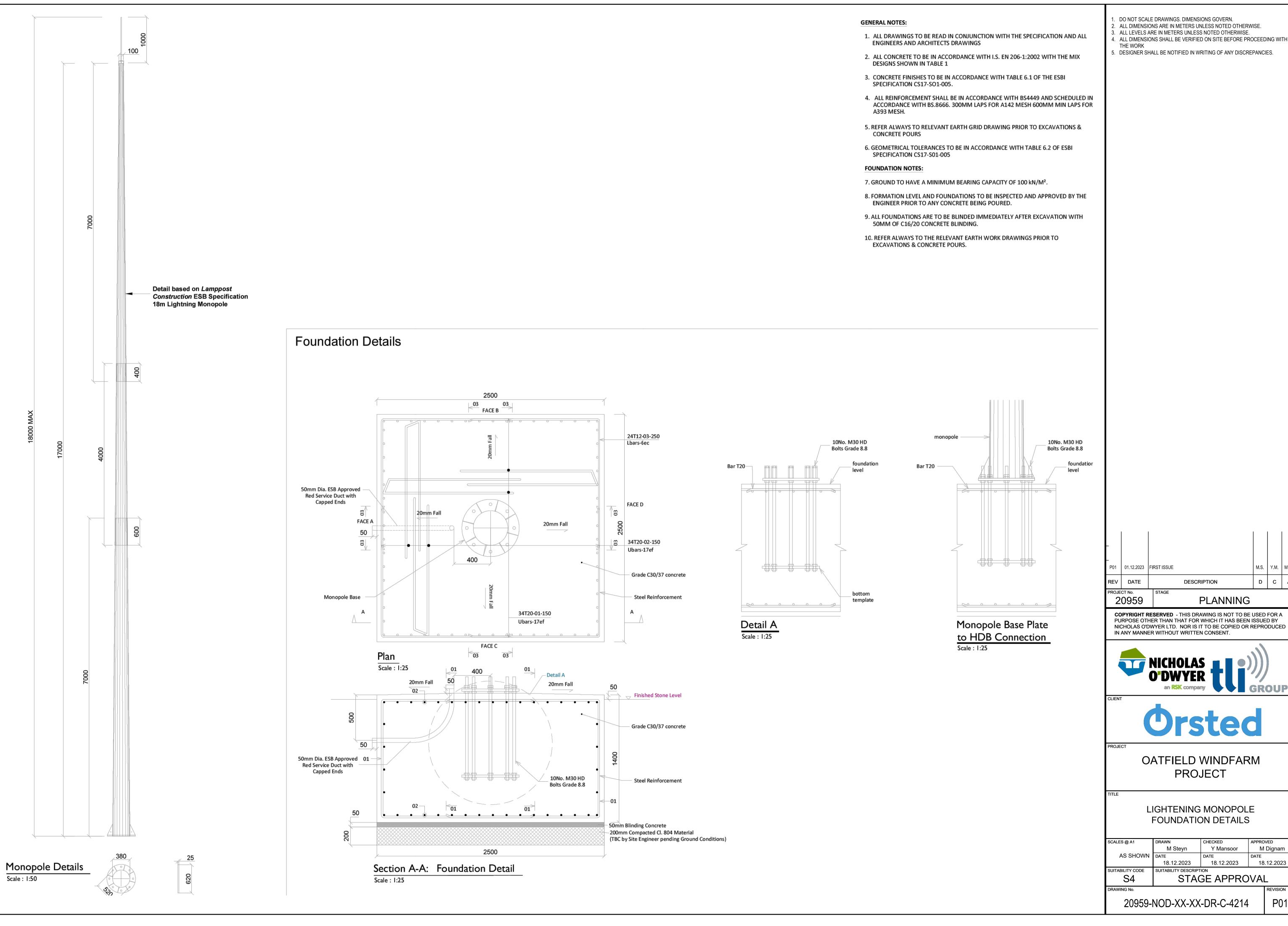
SCALE 1:50











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DESCRIPTION

**PROJECT** 

M Steyn

18.12.2023

Y Mansoor

18.12.2023

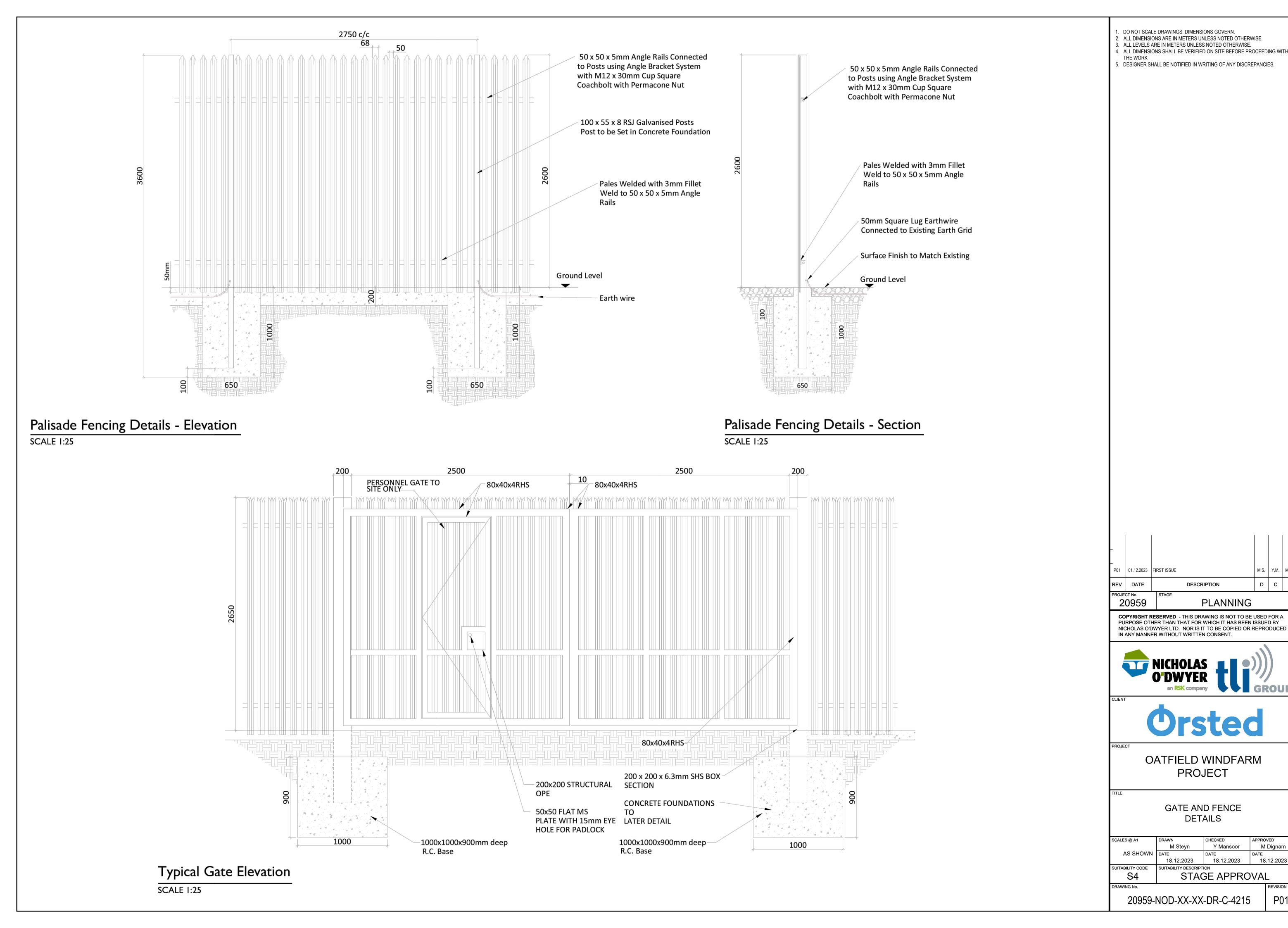
STAGE APPROVAL

M Dignam

18.12.2023

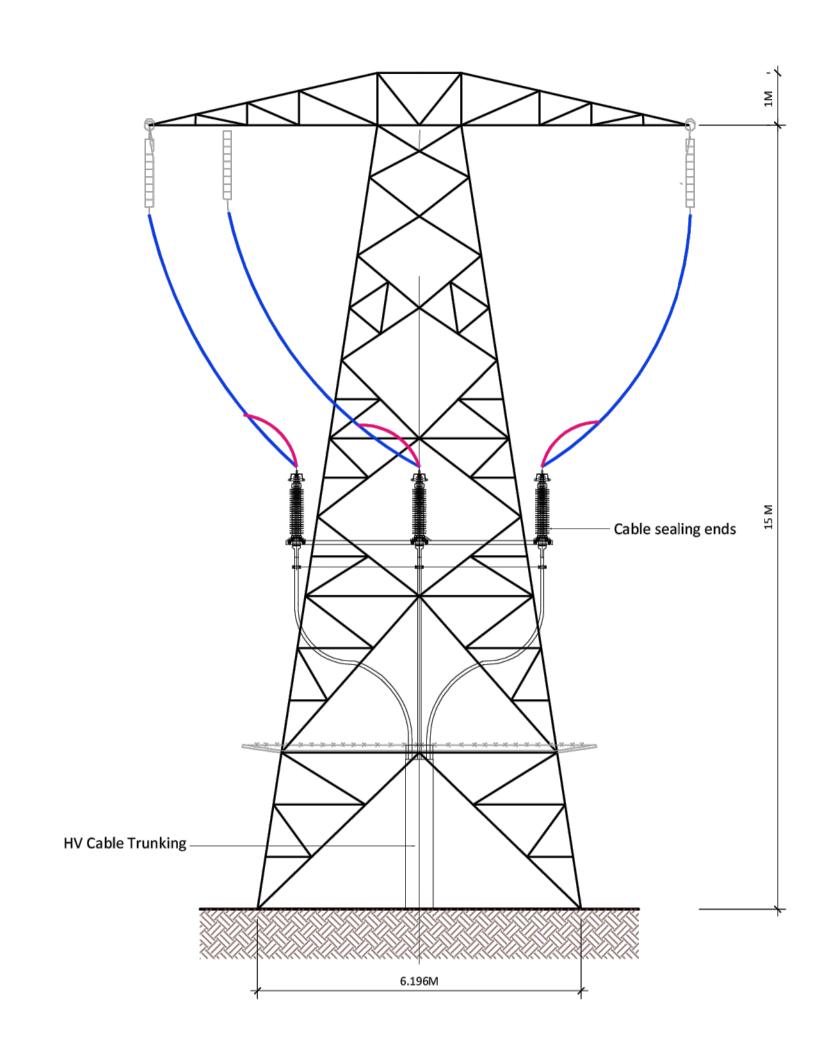
P01

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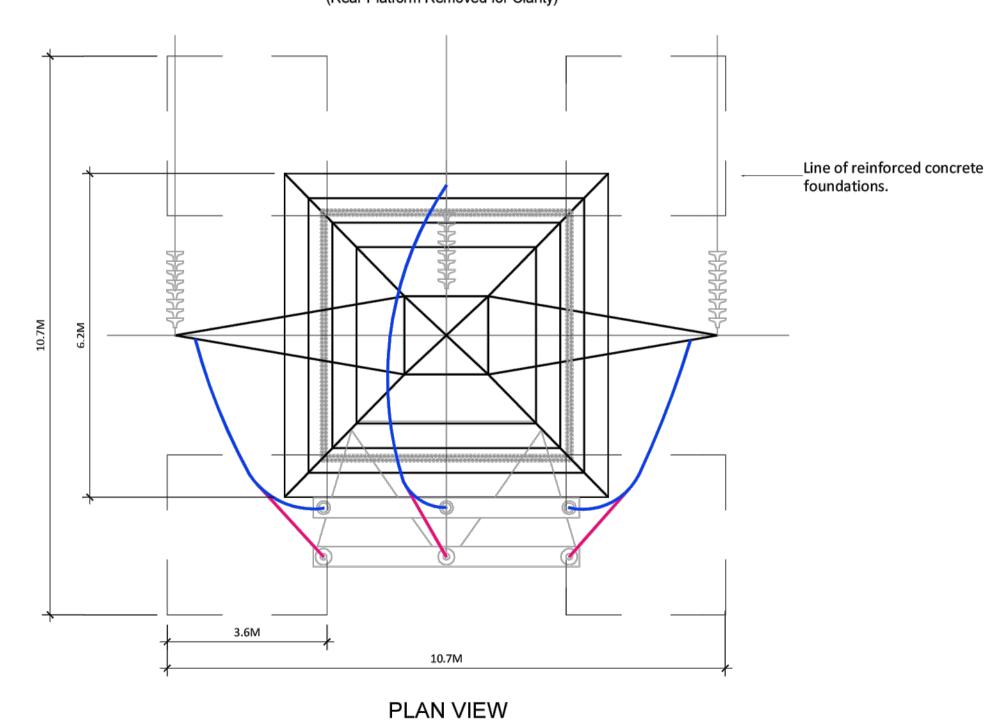


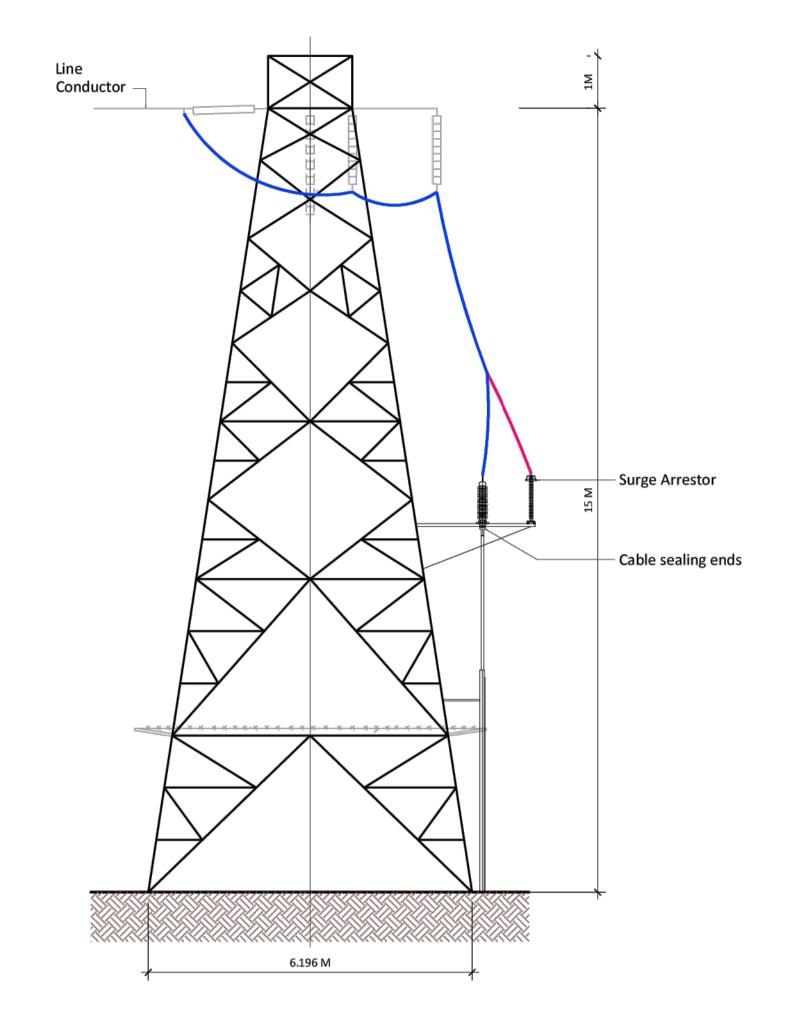
M Dignam

18.12.2023



FRONT ELEVATION
(Rear Platform Removed for Clarity)



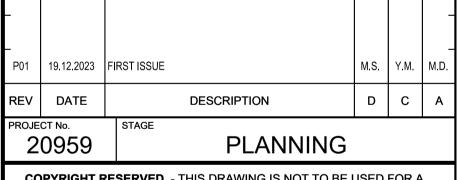


SIDE ELEVATION

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PROJECT

OATFIELD WINDFARM PROJECT

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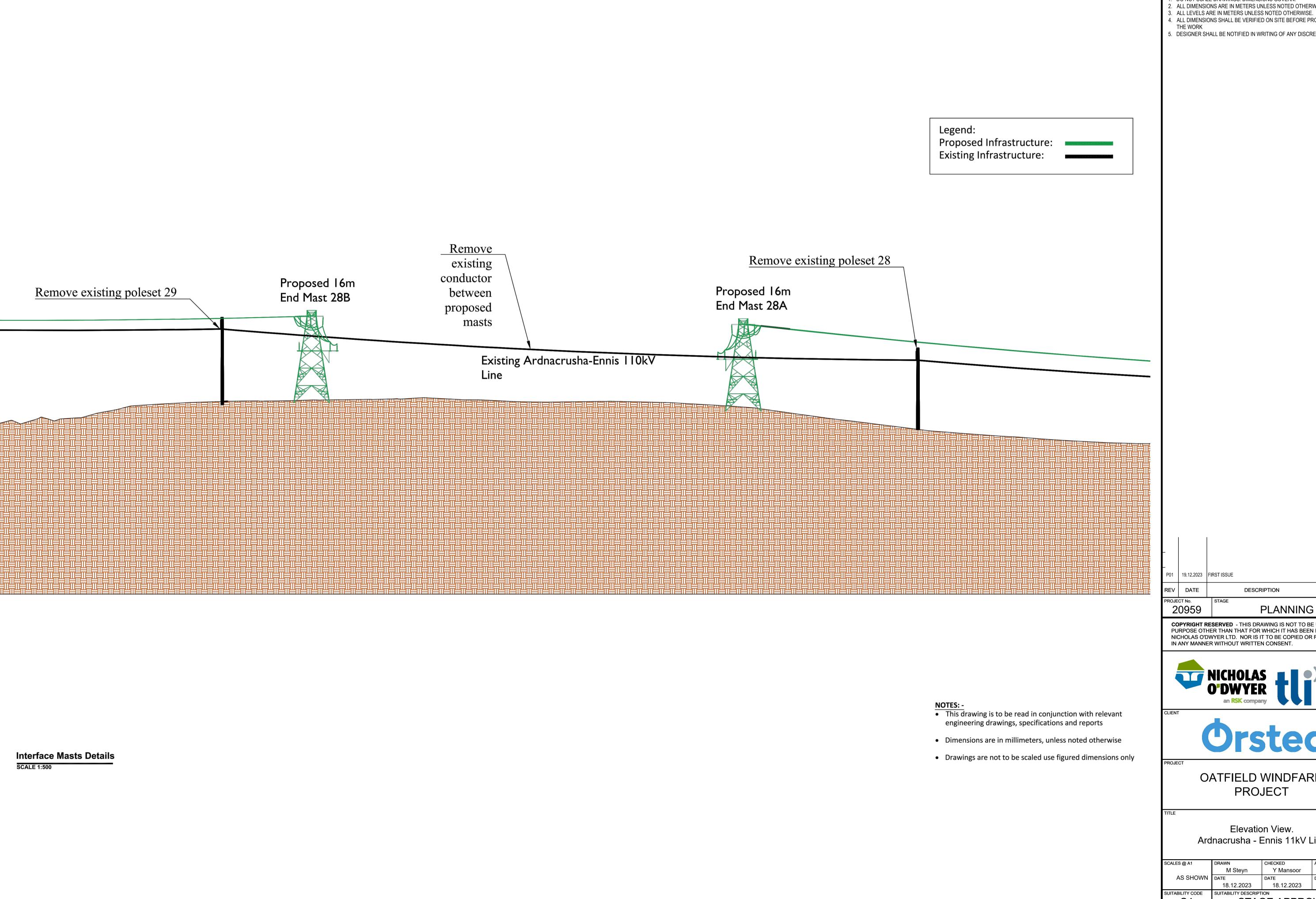
INTERFACE MAST DETAILS

SCALES @ A1	DRAWN	CHECKED	APPRO	VED
	M Steyn	Y Mansoor	М	Dignam
AS SHOWN	DATE	DATE	DATE	
	18.12.2023	18.12.2023	18	.12.2023
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## OATFIELD WINDFARM

Elevation View. Ardnacrusha - Ennis 11kV Line

SCALES @ A1	DRAWN	CHECKED	APPROVED
	M Steyn	Y Mansoor	M Dignam
AS SHOWN	DATE	DATE	DATE
	18.12.2023	18.12.2023	18.12.2023
SUITABILITY CODE	SUITABILITY DESCRIPTION		
S4	STAGE APPROVAL		
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