

100
0 10



LEGEND

- PROPOSED ROAD SURFACING
- PROPOSED CONCRETE SURFACING
- PROPOSED NATIVE HEDGEROW
- PROPOSED LONG GRASSLAND
- PROPOSED SHORT GRASSLAND
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING

- PROPOSED NATIVE WOODLAND PLANTING
- PROPOSED SPECIMEN TREE WITHIN NATIVE WOODLAND PLANTING
- PROPOSED TREE
- EXISTING VEGETATION RETAINED
- EXISTING WOODLAND RETAINED
- EXISTING HEDGEROW RETAINED
- EXISTING ROAD
- EXISTING PATHWAY
- EXISTING TREE RETAINED

GENERAL NOTES:

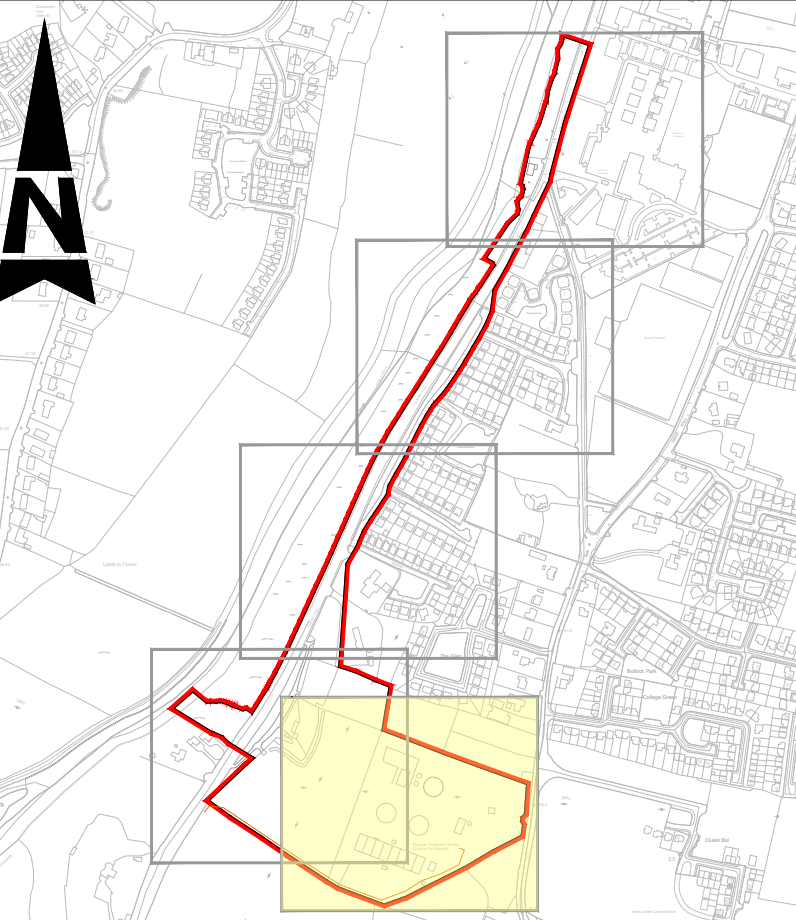
- ALL DIMENSIONS ARE INTERNAL AND IN METRES UNLESS NOTED OTHERWISE.
- ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS.
- ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM.
- ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR.

LEGEND :

- SITE BOUNDARY LINE (AREA = 10.766 ha)
- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED

NOTES:

- REFER TO GENERAL ARRANGEMENT PLAN DRAWING 5161805_EWE_DR_MOR_5101 FOR PROPOSED WWTP LAYOUT AND LABELING.



KEY PLAN SCALE 1:10000 @ A1

Purpose				
PLANNING				
0	PLANNING	AMQ	26.05.26	KA
Rev	Description	By	Date	Chk'd



DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE, 150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com



MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

PROPOSED SITE LANDSCAPING LAYOUT SHEET 1 OF 5

Original Scale		Design/Drawn		Checked		Authorised	
1:500 @ A1		AMQ		KA		FQ	
Date 26.05.26		Date 26.05.26		Date 26.05.26		Date 26.05.26	
Status	Drawing Number	Rev		Rev		Rev	
P	5161805_EWE_DR_MOR_5180	0					

1 PROPOSED LANDSCAPING SITE LAYOUT

1:500 @ A1
1:1000 @ A3
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ORDNANCE SURVEY IRELAND & GOVERNMENT OF IRELAND

NOTES

- PROPOSED NATIVE HEDGEROW. TO CONSIST OF 75% HAWTHORN AND 25% OF AT LEAST 4 OTHER NATIVE SPECIES.
- PROPOSED LONG GRASSLAND. GRASSLAND TO BE MANAGED AS A LONG-SWARD SPECIES GRASSLAND BY MOWING REGIME INVOLVING 1NO. CUT AND REMOVAL OF ARISINGS ANNUALLY.
- PROPOSED SHORT GRASSLAND. GRASSLAND TO BE MANAGED AS A SHORT-SWARD SPECIES GRASSLAND BY MOWING REGIME INVOLVING 5NO. 6 WEEKLY CUTS AND REMOVAL OF ARISINGS ANNUALLY.
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- EXISTING WALL RETAINED.
- EXISTING VEGETATION RETAINED

100
10
0



RIVER BARROW

1650mm DIAMETER GRAVITY MAIN TUNNEL FROM EXISTING
KILKENNY ROAD PUMPING STATION

CARLOW SOUTHERN RELIEF ROAD LAYOUT
OPTION (SUBJECT TO ROUTE OPTION
ASSESSMENT AND DETAIL DESIGN BY OTHERS)

SITE
NOTICE

PARTS OF THE EXISTING WOODLAND WILL
HAVE TO BE CLEARED TO ALLOW ACCESS FOR
MACHINERY ETC. FOR INSTALLATION OF NEW
OUTFALL PIPE. THE EXTENT OF THIS WORK
AREA WILL BE KEPT TO THE MINIMUM
REQUIRED.

NOTES

- PROPOSED NATIVE HEDGEROW,
TO CONSIST OF 75% HAWTHORN AND 25%
OF AT LEAST 4 OTHER NATIVE SPECIES.
- PROPOSED LONG GRASSLAND.
GRASSLAND TO BE MANAGED AS A LONG-SWARD
SPECIES GRASSLAND BY MOWING REGIME INVOLVING
1NO. CUT AND REMOVAL OF ARISINGS ANNUALLY.
- PROPOSED SHORT GRASSLAND.
GRASSLAND TO BE MANAGED AS A SHORT-SWARD
SPECIES GRASSLAND BY MOWING REGIME INVOLVING
5NO. 6 WEEKLY CUTS AND REMOVAL OF ARISINGS
ANNUALLY.
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- EXISTING WALL RETAINED.
- EXISTING VEGETATION RETAINED

LEGEND

- PROPOSED ROAD SURFACING
- PROPOSED CONCRETE SURFACING
- PROPOSED NATIVE HEDGEROW
- PROPOSED LONG GRASSLAND
- PROPOSED SHORT GRASSLAND
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- PROPOSED SPECIMEN TREE WITHIN
NATIVE WOODLAND PLANTING
- PROPOSED TREE
- EXISTING VEGETATION RETAINED
- EXISTING WOODLAND RETAINED
- EXISTING HEDGEROW RETAINED
- EXISTING ROAD
- EXISTING PATHWAY
- EXISTING TREE RETAINED

GENERAL NOTES:

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DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS.
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DATUM.
- ALL COORDINATES ARE IN METRES AND ARE TO IRISH
TRANSVERSE MERCATOR.

LEGEND :

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- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED

NOTES:

- REFER TO GENERAL ARRANGEMENT PLAN
DRAWING 5161805_EWE_DR_MOR_5102 FOR PROPOSED
WWTP LAYOUT AND LABELING.



KEY PLAN SCALE 1:10000 @ A1

Purpose

PLANNING

Rev	Description	By	Date	Chk'd	Auth
0	PLANNING		AMQ 26.05.26	KA	FQ



DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE, 150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com

Client



Project

MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

Title
PROPOSED SITE LANDSCAPING LAYOUT
SHEET 2 OF 5

Original	Scale	Design/Drawn	Checked	Authorised
1:500 @ A1	AMQ	KA	FQ	
Date 26.05.26	Date 26.05.26	Date 26.05.26	Date 26.05.26	

Status	Drawing Number	Rev
P	5161805_EWE_DR_MOR_5181	0

1

PROPOSED LANDSCAPING SITE LAYOUT

1:500 @ A1
1:1000 @ A3

100
10
0



1650mm DIAMETER GRAVITY MAIN TUNNEL FROM EXISTING
KILKENNY ROAD PUMPING STATION

SITE
NOTICE

INTERMEDIATE
SHAFT

LINE

5161805_EWE_DR_MOR_5181

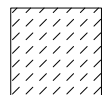
MATCH

5161805_EWE_DR_MOR_5183

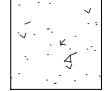
LINE

MATCH

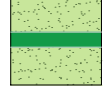
LEGEND



PROPOSED ROAD SURFACING



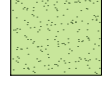
PROPOSED CONCRETE SURFACING



PROPOSED NATIVE HEDGEROW



PROPOSED LONG GRASSLAND



PROPOSED SHORT GRASSLAND



PROPOSED MARGINAL PLANTING



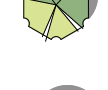
PROPOSED PONDS



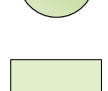
PROPOSED NATIVE SCRUB PLANTING



PROPOSED NATIVE WOODLAND PLANTING



PROPOSED SPECIMEN TREE WITHIN
NATIVE WOODLAND PLANTING



PROPOSED TREE



EXISTING VEGETATION RETAINED



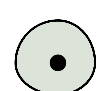
EXISTING WOODLAND RETAINED



EXISTING HEDGEROW RETAINED



EXISTING ROAD



EXISTING PATHWAY



EXISTING TREE RETAINED

GENERAL NOTES:

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LEGEND :

- SITE BOUNDARY LINE (AREA = 10.766 ha)
- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED

NOTES:

1. REFER TO GENERAL ARRANGEMENT PLAN DRG: 5161805_EWE_MOR_5103 FOR PROPOSED.



KEY PLAN SCALE 1:10000 @ A1

Purpose **PLANNING**

Rev	Description	By	Date	Chk'd	Auth
0	PLANNING		AMQ 26.05.26	KA	FQ



DUBLIN | CORK | GALWAY | DUNDALK

ATKINS HOUSE, 150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com

Client



Project

MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

Title

PROPOSED SITE LANDSCAPING LAYOUT
SHEET 3 OF 5

Original	Scale	Design/Drawn	Checked	Authorised
1:500 @ A1	AMQ	KA	FQ	
Date 26.05.26	Date 26.05.26	Date 26.05.26	Date 26.05.26	

Status	Drawing Number	Rev
P	5161805_EWE_DR_MOR_5182	0

NOTES

- PROPOSED NATIVE HEDGEROW. TO CONSIST OF 75% HAWTHORN AND 25% OF AT LEAST 4 OTHER NATIVE SPECIES.
- PROPOSED LONG GRASSLAND. GRASSLAND TO BE MANAGED AS A LONG-SWARD SPECIES GRASSLAND BY MOWING REGIME INVOLVING 1NO. CUT AND REMOVAL OF ARISING ANNUALLY.
- PROPOSED SHORT GRASSLAND. GRASSLAND TO BE MANAGED AS A SHORT-SWARD SPECIES GRASSLAND BY MOWING REGIME INVOLVING 5NO. 6 WEEKLY CUTS AND REMOVAL OF ARISING ANNUALLY.
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- EXISTING WALL RETAINED.
- EXISTING VEGETATION RETAINED

1 PROPOSED LANDSCAPING SITE LAYOUT 1:500 @ A1 1:1000 @ A3

0 10 100



LEGEND

- PROPOSED ROAD SURFACING
- PROPOSED CONCRETE SURFACING
- PROPOSED NATIVE HEDGEROW
- PROPOSED LONG GRASSLAND
- PROPOSED SHORT GRASSLAND
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- PROPOSED SPECIMEN TREE WITHIN NATIVE WOODLAND PLANTING
- PROPOSED TREE
- EXISTING VEGETATION RETAINED
- EXISTING WOODLAND RETAINED
- EXISTING HEDGEROW RETAINED
- EXISTING ROAD
- EXISTING PATHWAY
- EXISTING TREE RETAINED

GENERAL NOTES:

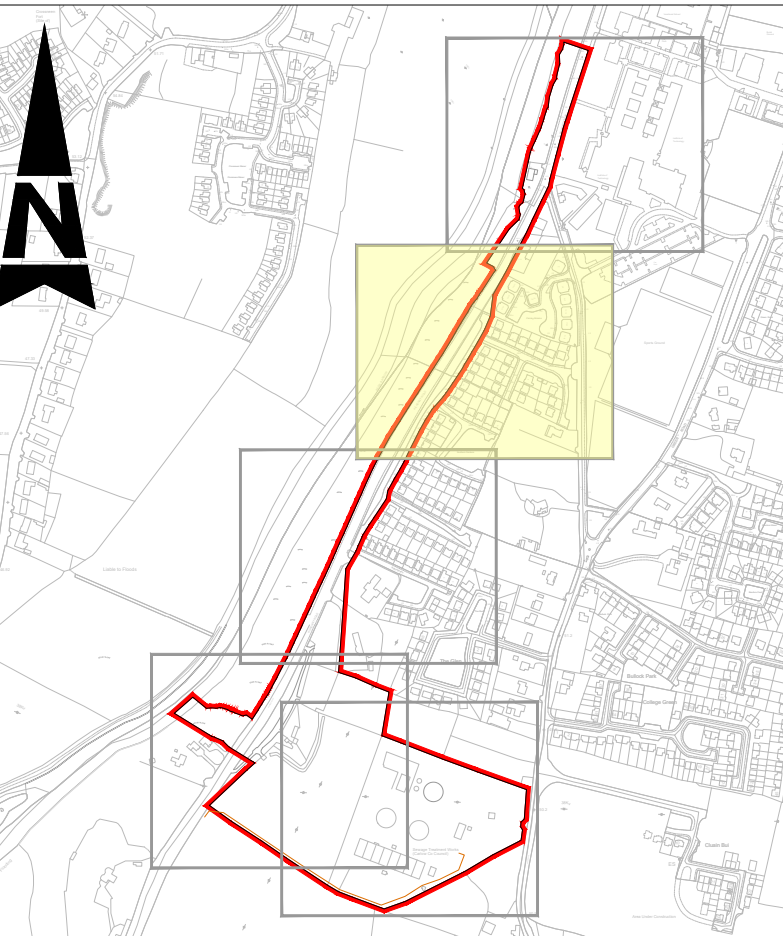
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LEGEND :

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- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED

NOTES:

- REFER TO GENERAL ARRANGEMENT PLAN DRAWING 5161805_EWE_DR_MOR_5104 FOR PROPOSED



KEY PLAN SCALE 1:10000 @ A1

Purpose				
PLANNING				
0	PLANNING	AMQ	26.05.26	KA
Rev	Description	By	Date	Chk'd



ATKINS HOUSE, 150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com



MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

PROPOSED SITE LANDSCAPING LAYOUT SHEET 4 OF 5

Original Scale	Design/Drawn	Checked	Authorised
1:500 @ A1	AMQ	KA	FQ
Date	Date	Date	Date
26.05.26	26.05.26	26.05.26	26.05.26
Status	Drawing Number	Rev	
P	5161805_EWE_DR_MOR_5183	0	

NOTES

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- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- EXISTING WALL RETAINED.
- EXISTING VEGETATION RETAINED

1

PROPOSED LANDSCAPING SITE LAYOUT

1:500 @ A1
1:1000 @ A3

0 10 100



10Kv

10Kv

KILKENNY ROAD PUMPING STATION
(TO BE DECOMMISSIONED)

X: 671578.5
Y: 675670.5

ESB SUBSTATION

SITE NOTICE

EXISTING SITE ENTRANCE

CONTROL BUILDING
FFL: 47.24m
RL: 50.62m

Institute of
Technology

1650mm DIAMETER GRAVITY MAIN TUNNEL FROM EXISTING
KILKENNY ROAD PUMPING STATION

CARRIG BHAIRN

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ORDNANCE SURVEY IRELAND & GOVERNMENT OF IRELAND

LINE 5161805_EWE_DR_MOR_5183

1

PROPOSED LANDSCAPING SITE LAYOUT

1:500 @ A1
1:1000 @ A3

LEGEND

- PROPOSED ROAD SURFACING
- PROPOSED CONCRETE SURFACING
- PROPOSED NATIVE HEDGEROW
- PROPOSED LONG GRASSLAND
- PROPOSED SHORT GRASSLAND
- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- PROPOSED SPECIMEN TREE WITHIN NATIVE WOODLAND PLANTING
- PROPOSED TREE
- EXISTING VEGETATION RETAINED
- EXISTING WOODLAND RETAINED
- EXISTING HEDGEROW RETAINED
- EXISTING ROAD
- EXISTING PATHWAY
- EXISTING TREE RETAINED

GENERAL NOTES:

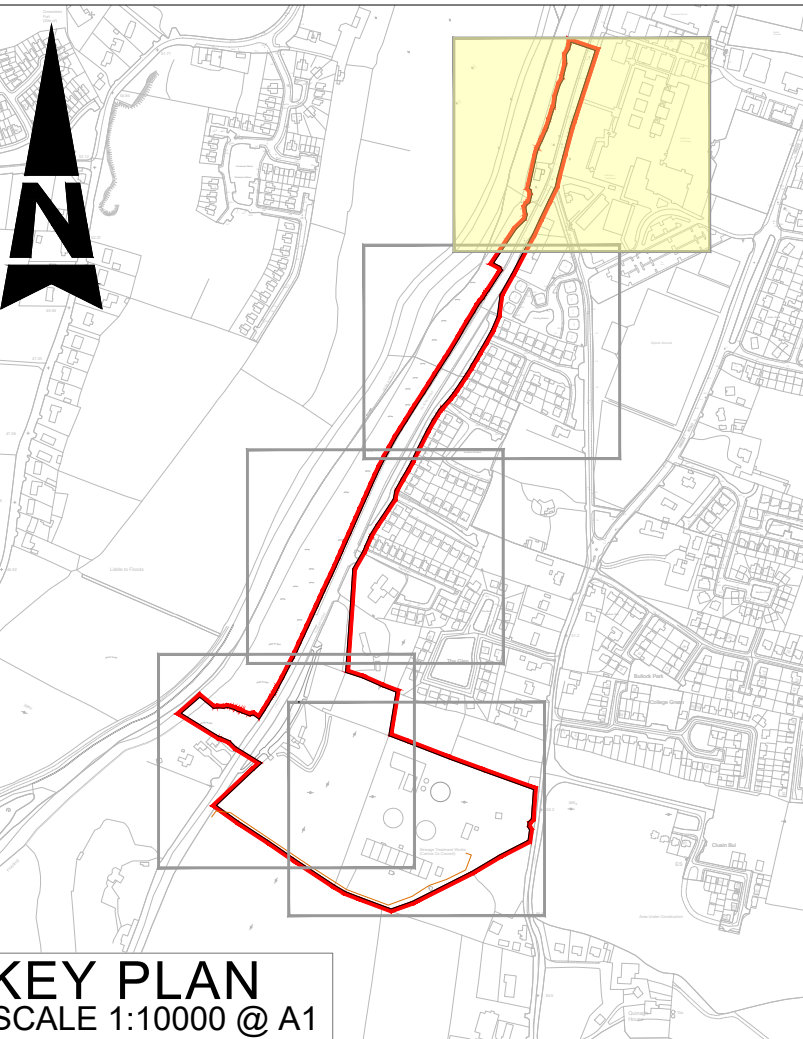
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LEGEND :

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- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED

NOTES:

- REFER TO GENERAL ARRANGEMENT PLAN DRG: 5161805_EWE_DR_MOR_5105 FOR PROPOSED.



KEY PLAN
SCALE 1:10000 @ A1

Purpose				
PLANNING				
0	PLANNING	AMQ	26.05.26	KA FQ
Rev	Description	By	Date	Chk'd Auth

AtkinsRéalis
DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE, 150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com

Client
Uisce Éireann
Irish Water

Project
MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

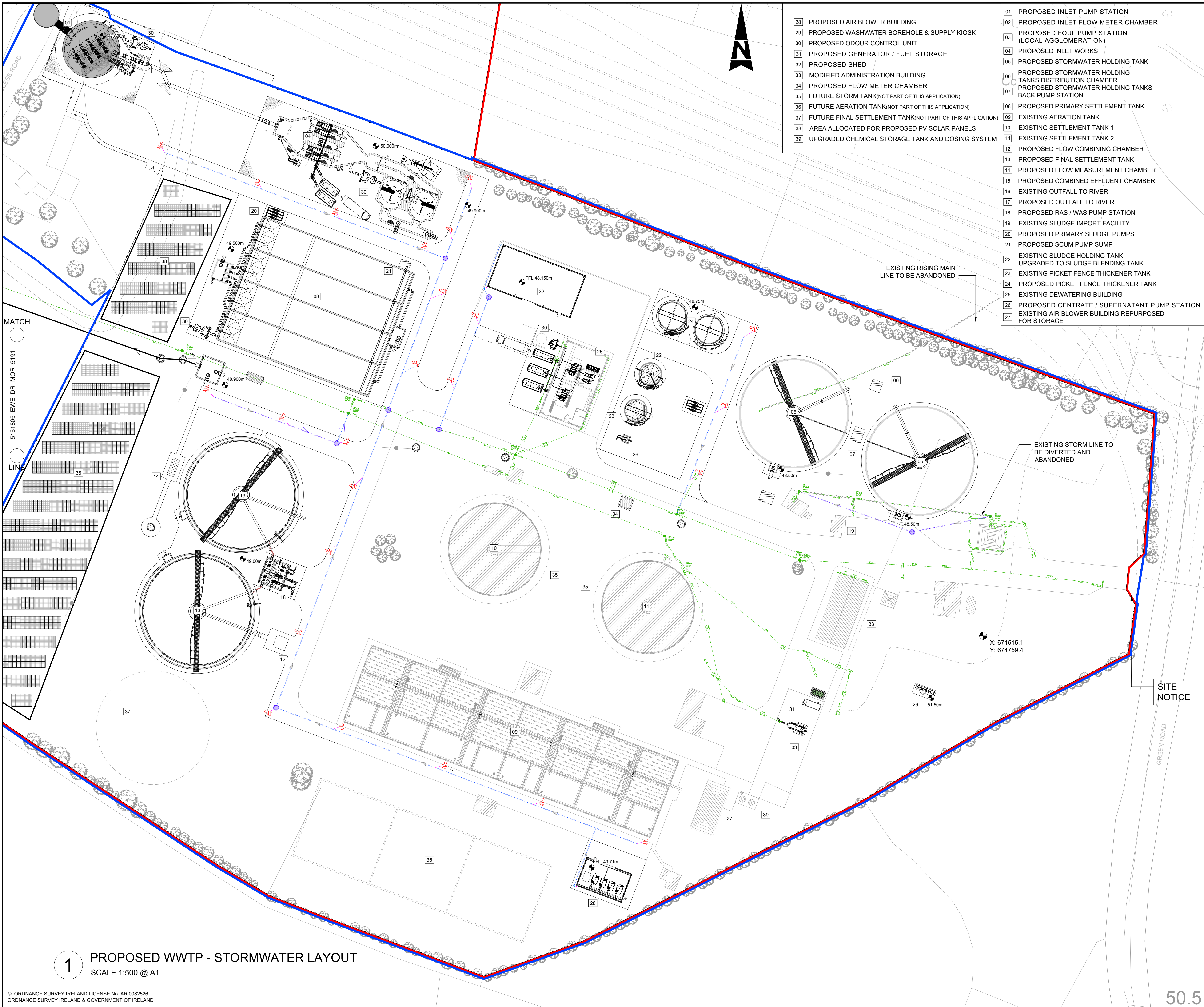
Title
PROPOSED SITE LANDSCAPING LAYOUT
SHEET 5 OF 5

Original: Scale		Design/Drawn	Checked	Authorised
1:500 @ A1		AMQ	KA	FQ
		Date 26.05.26	Date 26.05.26	Date 26.05.26
Status	Drawing Number			Rev
P	5161805_EWE_DR_MOR_5184			0

NOTES

- PROPOSED NATIVE HEDGEROW. TO CONSIST OF 75% HAWTHORN AND 25% OF AT LEAST 4 OTHER NATIVE SPECIES.
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- PROPOSED MARGINAL PLANTING
- PROPOSED PONDS
- PROPOSED NATIVE SCRUB PLANTING
- PROPOSED NATIVE WOODLAND PLANTING
- EXISTING WALL RETAINED.
- EXISTING VEGETATION RETAINED

100
0 10



1

PROPOSED WWTP - STORMWATER LAYOUT
SCALE 1:500 @ A1

0 10 100



RIVER BARROW

CARLOW SOUTHERN RELIEF ROAD LAYOUT
OPTION (SUBJECT TO ROUTE OPTION
ASSESSMENT AND DETAIL DESIGN BY OTHERS)

1650mm DIAMETER GRAVITY MAIN
TUNNEL FROM EXISTING KILKENNY
ROAD PUMPING STATION

INTERMEDIATE
SHAFT

ACCESS ROAD

SITE
NOTICE

EXISTING OUTFALL TO BE
RETAINED FOR SURFACE
WATER DRAINAGE

PROPOSED OUTFALL
PIPELINE

MICROTUNNEL UNDER
KILKENNY ROAD

INFRASTRUCTURE IDENTIFICATION:

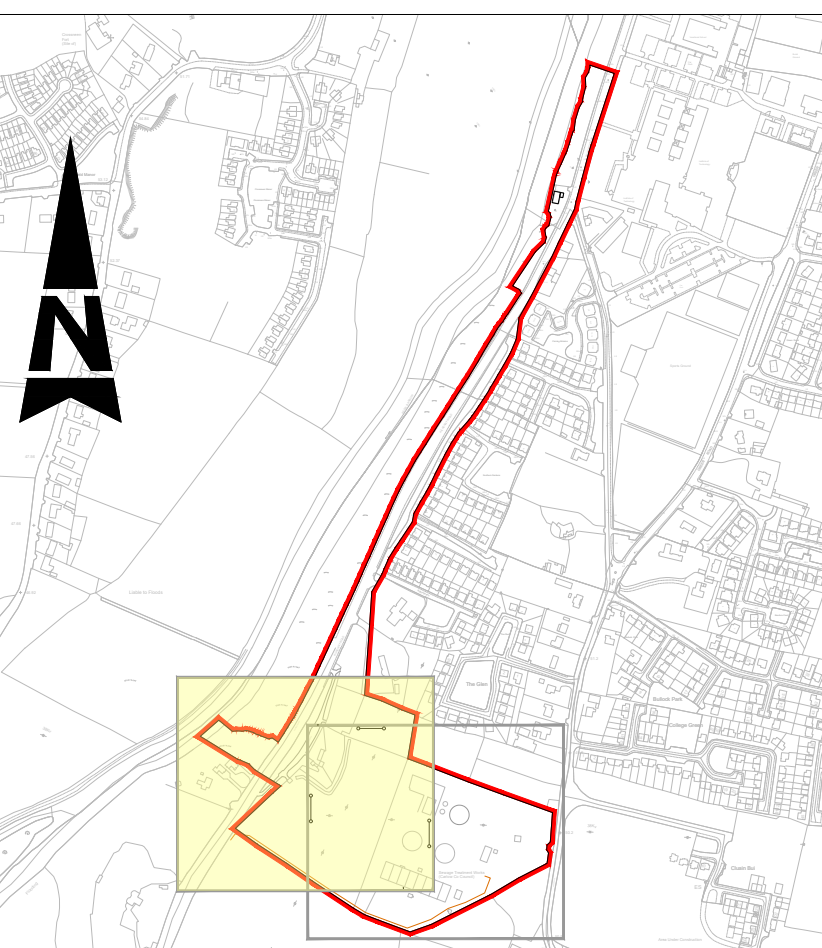
- 01 PROPOSED INLET PUMP STATION
- 02 PROPOSED INLET FLOW METER CHAMBER
- 03 PROPOSED FOUL PUMP STATION (LOCAL AGGLOMERATION)
- 04 PROPOSED INLET WORKS
- 05 PROPOSED STORMWATER HOLDING TANK
- 06 PROPOSED STORMWATER HOLDING TANKS DISTRIBUTION CHAMBER
- 07 PROPOSED STORMWATER HOLDING TANKS BACK PUMP STATION
- 08 PROPOSED PRIMARY SETTLEMENT TANK
- 09 EXISTING AERATION TANK
- 10 EXISTING SETTLEMENT TANK 1
- 11 EXISTING SETTLEMENT TANK 2
- 12 PROPOSED FLOW COMBINING CHAMBER
- 13 PROPOSED FINAL SETTLEMENT TANK
- 14 PROPOSED FLOW MEASUREMENT CHAMBER
- 15 PROPOSED COMBINED EFFLUENT CHAMBER
- 16 EXISTING OUTFALL TO RIVER
- 17 PROPOSED OUTFALL TO RIVER
- 18 PROPOSED RAS / WAS PUMP STATION
- 19 EXISTING SLUDGE IMPORT FACILITY
- 20 PROPOSED PRIMARY SLUDGE PUMPS
- 21 PROPOSED SCUM PUMP SUMP
- 22 EXISTING SLUDGE HOLDING TANK UPGRADED TO SLUDGE BLENDING TANK
- 23 EXISTING PICKET FENCE THICKENER TANK
- 24 PROPOSED PICKET FENCE THICKENER TANK
- 25 EXISTING DEWATERING BUILDING
- 26 PROPOSED CENTRATE / SUPERNATANT PUMP STATION
- 27 EXISTING AIR BLOWER BUILDING REPURPOSED FOR STORAGE
- 28 PROPOSED AIR BLOWER BUILDING
- 29 PROPOSED WASHWATER BOREHOLE & SUPPLY KIOSK
- 30 PROPOSED ODOUR CONTROL UNIT
- 31 PROPOSED GENERATOR / FUEL STORAGE
- 32 PROPOSED SHED
- 33 MODIFIED ADMINISTRATION BUILDING
- 34 PROPOSED FLOW METER CHAMBER
- 35 FUTURE STORM TANK(NOT PART OF THIS APPLICATION)
- 36 FUTURE AERATION TANK(NOT PART OF THIS APPLICATION)
- 37 FUTURE FINAL SETTLEMENT TANK(NOT PART OF THIS APPLICATION)
- 38 AREA ALLOCATED FOR PROPOSED PV SOLAR PANELS
- 39 UPGRADED CHEMICAL STORAGE TANK AND DOSING SYSTEM

GENERAL NOTES:

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LEGEND :

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- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- PROPOSED LEVEL
- GRID REFERENCE LOCATION
- OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- ABANDONED LINE
- PROPOSED GULLY
- PROPOSED GULLY CONNECTION
- PROPOSED STORMWATER MANHOLE
- PROPOSED OIL INTERCEPTOR



KEY PLAN
SCALE 1:10000 @ A1

Purpose				
PLANNING				
0	PLANNING	AMQ	26.05.26	KA FQ
Rev	Description	By	Date	Chk'd Auth

AtkinsRéalis
DUBLIN | CORK | GALWAY | DUNDALK
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Tel : +353 1 810 8000 Email : info.ie@atkinsrealis.com

Client
Uisce Éireann
Irish Water

Project
MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

Title
PROPOSED WWTP STORMWATER
DETAILED LAYOUT
SHEET 2 OF 2

Original	Scale	Design/Drawn	Checked	Authorised
1:500 @ A1	AMQ	KA	FQ	
Date	26.05.26	Date	26.05.26	Date
26.05.26		26.05.26		26.05.26
Status	Drawing Number	Rev		
P	5161805_EWE_DR_MOR_5191	0		

1 PROPOSED WWTP - STORMWATER LAYOUT
SCALE 1:500 @ A1

100
10
0



MATCH

5161805_EWE_DR_MOR_5196
LINE

1 LIGHTING LAYOUT
1:500 @ A1
1:1000 @ A3

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ORDNANCE SURVEY IRELAND & GOVERNMENT OF IRELAND

ELECTRICAL NOTES

- 1) ELECTRICAL INSTALLATION TO BE CARRIED OUT IN ACCORDANCE WITH IS 10101:2020 ALL ELECTRICAL WORK WILL BE CARRIED OUT BY A COMPETENT ELECTRICAL CONTRACTOR. THE INSTALLATION, I.E DESIGN, CONSTRUCTION, INSPECTION AND TESTING WILL BE COMPLETED IN STRICT ACCORDANCE WITH IS 10101:2020 AND IN COMPLIANCE WITH OTHER REGULATIONS.
- 2) PROPOSED NEW LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH IS EN 13201-2:2015, BS 5489-1:2020, WIMES 3.02E & ILP GN08/23
- 3) SWITCHING OF NEW LIGHTING SYSTEM WILL BE FACILITATED VIA THE INDIVIDUAL PHOTOCELLS AND PIR'S MOUNTED ON LUMINAIRE HEADS.
- 4) LUMINAIRE COLOUR TEMPERATURE TO BE 2700K.
- 5) ALL LUMINAIRES TO BE INSTALLED AT 0 DEGREES WITH NO UPWARD LIGHT
- 6) BACK SHIELDS/BAFFLES SHALL BE INSTALLED ON THE FOLLOWING LUMINAIRES: 13A, 20A, 23A & 24A
- 7) THE AREAS AS FOLLOW HAVE BEEN DESIGNED ACCORDING TO THE FOLLOWING STANDARDS:
 - ROADS ARE DESIGNED IN ACCORDANCE WITH WIMES 3.02E. [EAV MIN=10 LUX / UO=0.25]
 - BAT ROOST - LESS THAN 1 LUX
 - MAINTENANCE FACTOR 0.89

Design Data

Results Roads - Horizontal Illuminance (lux)
Eav= 10.08
Emin= 2.6
Emax= 21.12
Emin/Emax= 0.12
Emin/Eav= 0.26

Bat Roost
Results - Horizontal Illuminance (lux)
Eav= 0.13
Emin= 0.01
Emax= 1.29
Emin/Emax= 0.00
Emin/Eav= 0.05

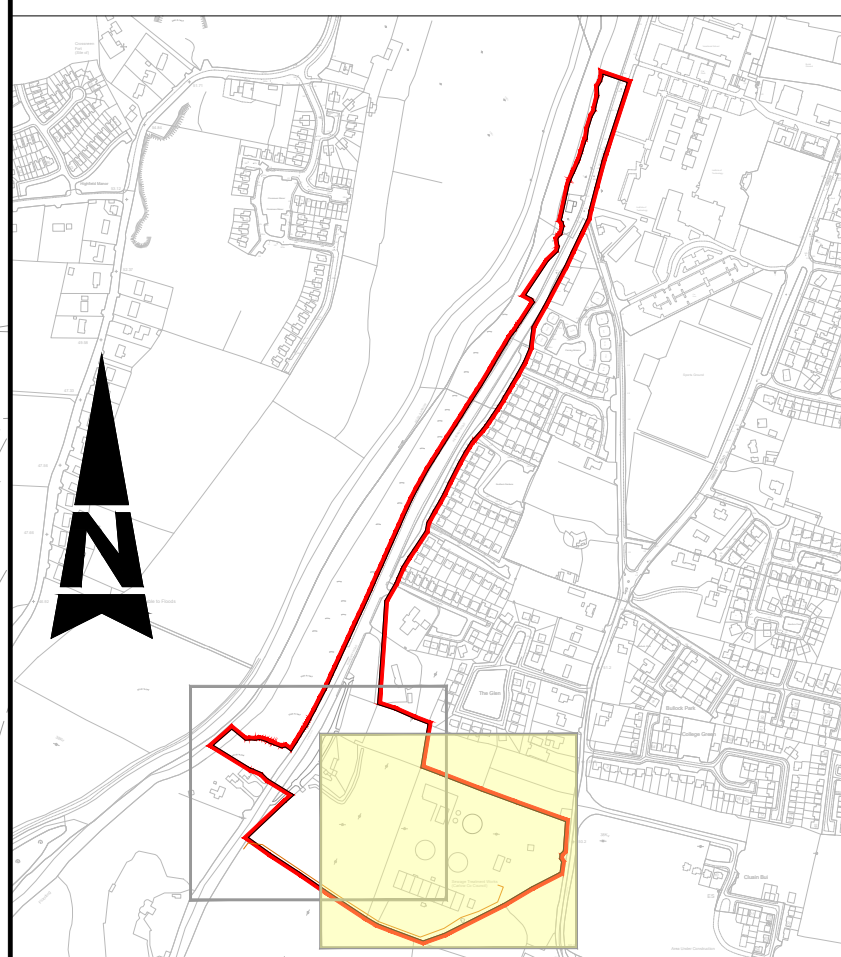
Bat Roost Vertical Grid
Results - Horizontal Illuminance (lux)
Eav= 0.23
Emin= 0.01
Emax= 0.68
Emin/Emax= 0.01
Emin/Eav= 0.02

GENERAL NOTES:

1. ALL DIMENSIONS ARE INTERNAL AND IN METRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS.
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM.
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR.

LEGEND :

- SITE BOUNDARY LINE (AREA = 10.766 ha)
- LANDS IN CONTROL OF APPLICANT
- EXISTING LEVEL
- X PROPOSED LEVEL
- Y GRID REFERENCE LOCATION
- 4356 - 20 4356 - 25, 4356 - 10 4414, 4414 - B OS MAP REFERENCE NUMBER
- EXISTING
- PROPOSED
- LP EXISTING LAMP POST TO BE REMOVED
- LS EXISTING LIGHTING STANDARD TO BE REMOVED



KEY PLAN
SCALE 1:10000 @ A1

Purpose
PLANNING

Rev	Description	By	Date	Chk'd	Auth
0	PLANNING		AMQ 26.05.26	KA	FQ



DUBLIN | CORK | GALWAY | DUNDALK

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Client



Project
MORTARSTOWN WASTEWATER
TREATMENT PLANT UPGRADE

Title
PROPOSED WWTP LIGHTING
DETAILED LAYOUT
SHEET 1 OF 2

Original Scale	Design/Drawn	Checked	Authorised
1:500 @ A1	AMQ	KA	FQ
	Date 26.05.26	Date 26.05.26	Date 26.05.26

Status	Drawing Number	Rev
P	5161805_EWE_DR_MOR_5195	0

LEGEND

SYMBOL	IMAGE	DESCRIPTION
		Luminaire A Height: 6Mtr AXIA 3-1 5384 Integrated lenses 16 OSLOM SQUARE GIANT@700mA Lamp 16 OSLOM SQUARE GIANT@870mA WW 727 230V 00-53-397 MF 0.89
	TYPE-A	
—		PROJECT ELEMENT OUTLINE
—	10	10 Lux
—	5.0	5 Lux
—	2.0	2 Lux
—	1.0	1 Lux
—	0.5	0.5 Lux
—	0.2	0.2 Lux