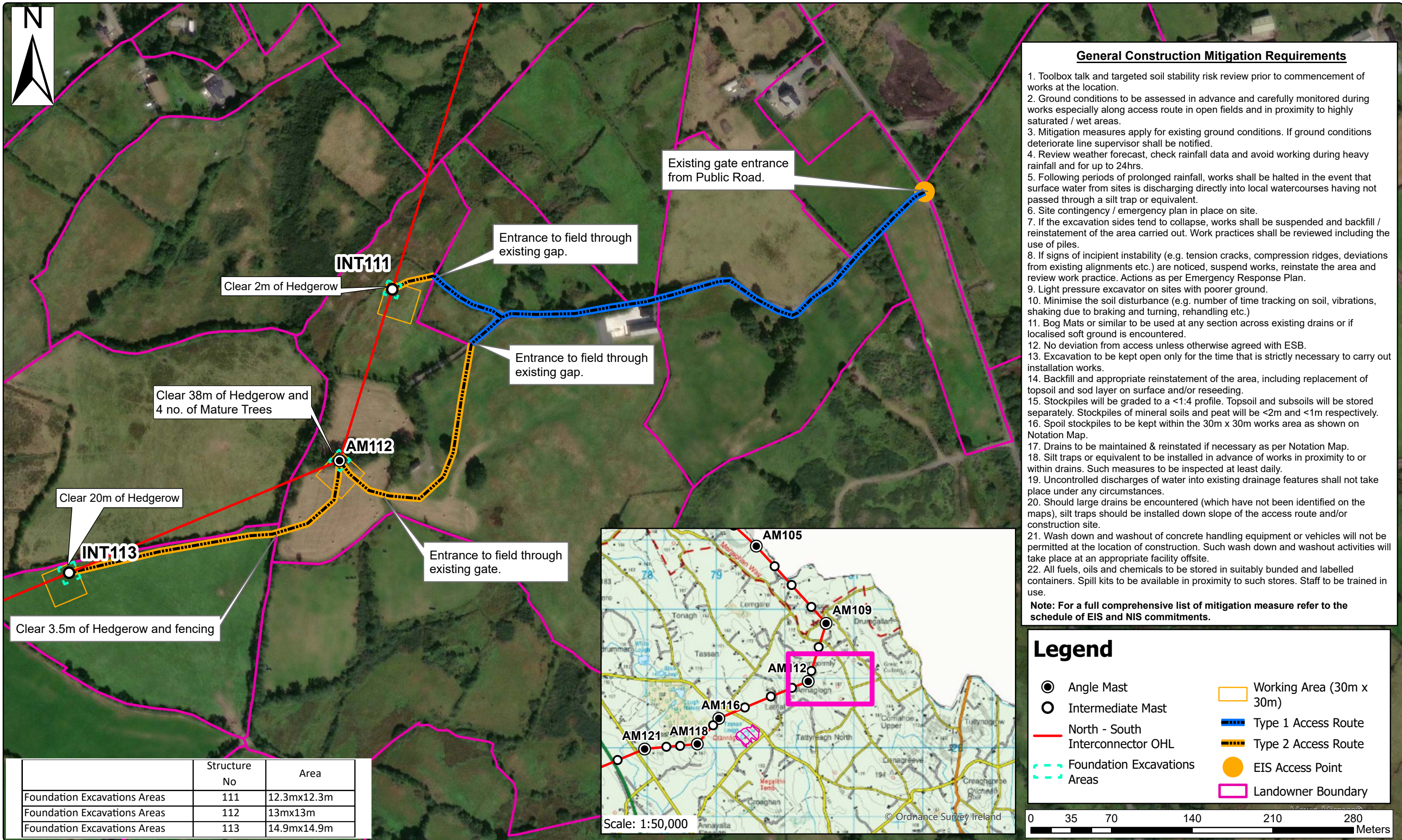


## **APPENDIX 3**

### **EXAMPLES OF ENVIRONMENTAL ROUTE MAPS**





Rev	Revision Description
	Purpose of Issue - Preliminary unless indicated
Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>	
Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland	



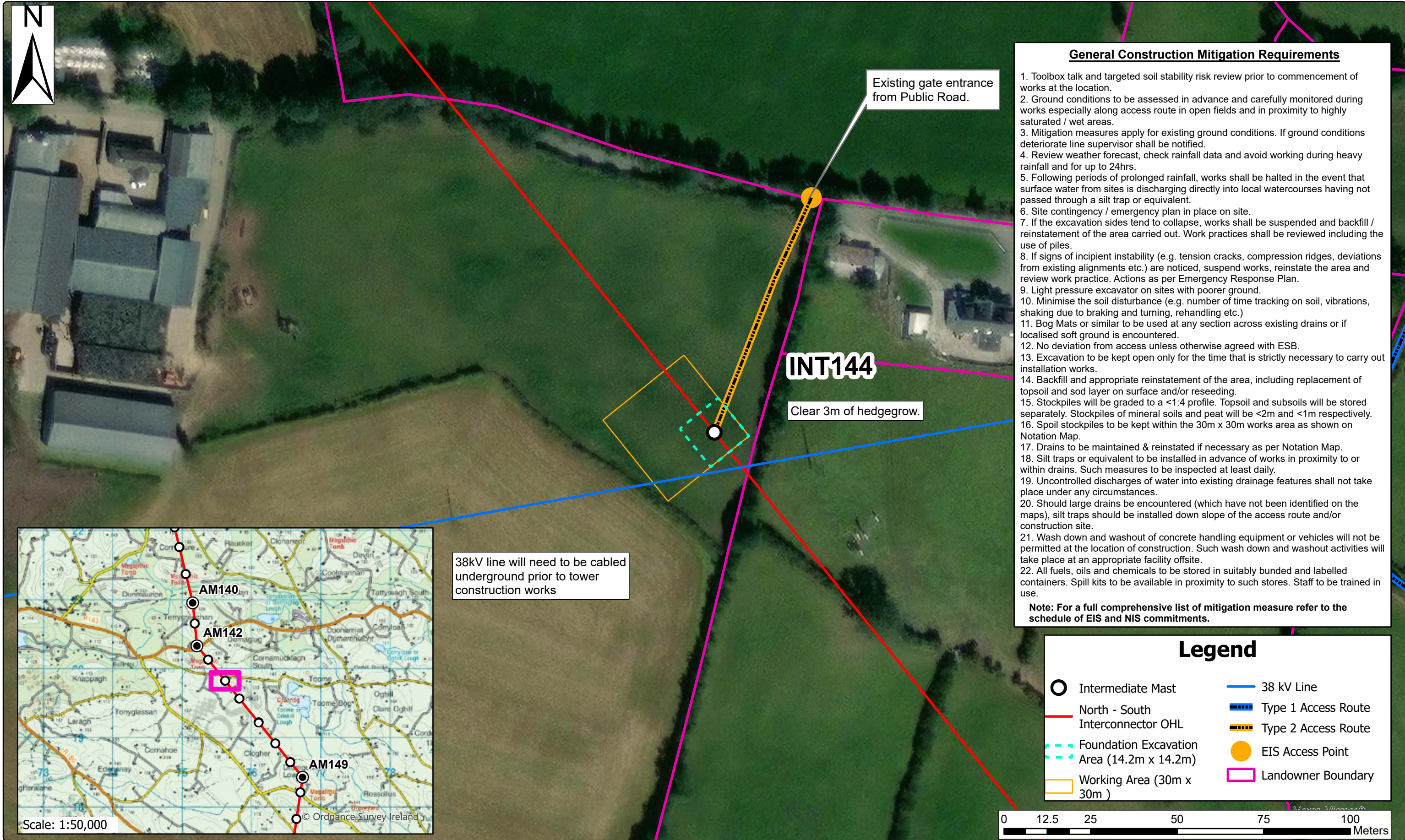
Engineering and Major Projects,  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.  
Tel: 353 1 703 8000 Web: www.esb.ie  
Engineering and Major Projects is a  
division of ESB.

CLIENT:	ESB Networks
PROJECT:	North - South 400 kV Interconnector Development
Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.	

PRODUCTION UNIT:	Engineering & Major Projects
DRAWING TITLE:	Environmental Map Intermediate Mast 111 & 113 Angle Mast 112

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVED DATE
GMM	GMM	-	-	18/08/2023
CLIENT REF.	NO. OF SHTS	SIZE	SCALE	
-	-	A3	1:3,000	
DRAWING NUMBER	SHEET REV			





Rev	Revision Description
	Purpose of Issue - Preliminary unless indicated
Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>	
Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland	



Engineering and Major Projects,  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.  
Tel: 353 1 703 8000 Web: www.esb.ie  
Engineering and Major Projects is a  
division of ESB.

CLIENT:	ESB Networks
PROJECT:	North - South 400 kV Interconnector Development
Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.	

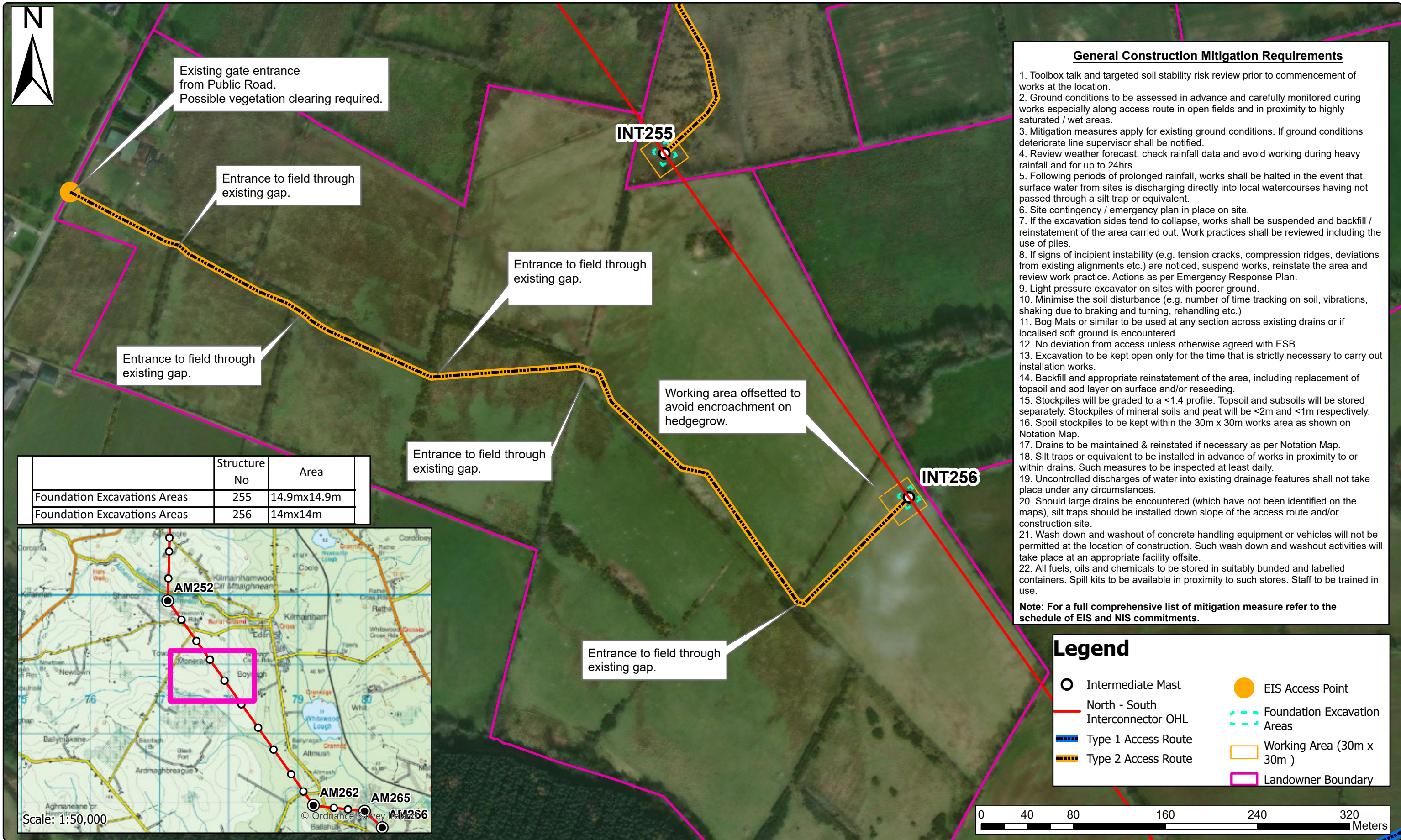
PRODUCTION UNIT:	Engineering & Major Projects
DRAWING TITLE:	Environmental Map Intermediate Mast 144

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVED DATE
GMM	GMM	-	-	18/08/2023
CLIENT REF.	NO. OF SHTS	SIZE	SCALE	
-	-	A3	1:1,000	
DRAWING NUMBER		SHEET REV		









Rev	Revision Description
	Purpose of Issue - Preliminary unless indicated
Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>	
Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland	



**Engineering and Major Projects,**  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.

Tel: 353 1 703 8000 Web: [www.esb.ie](http://www.esb.ie)

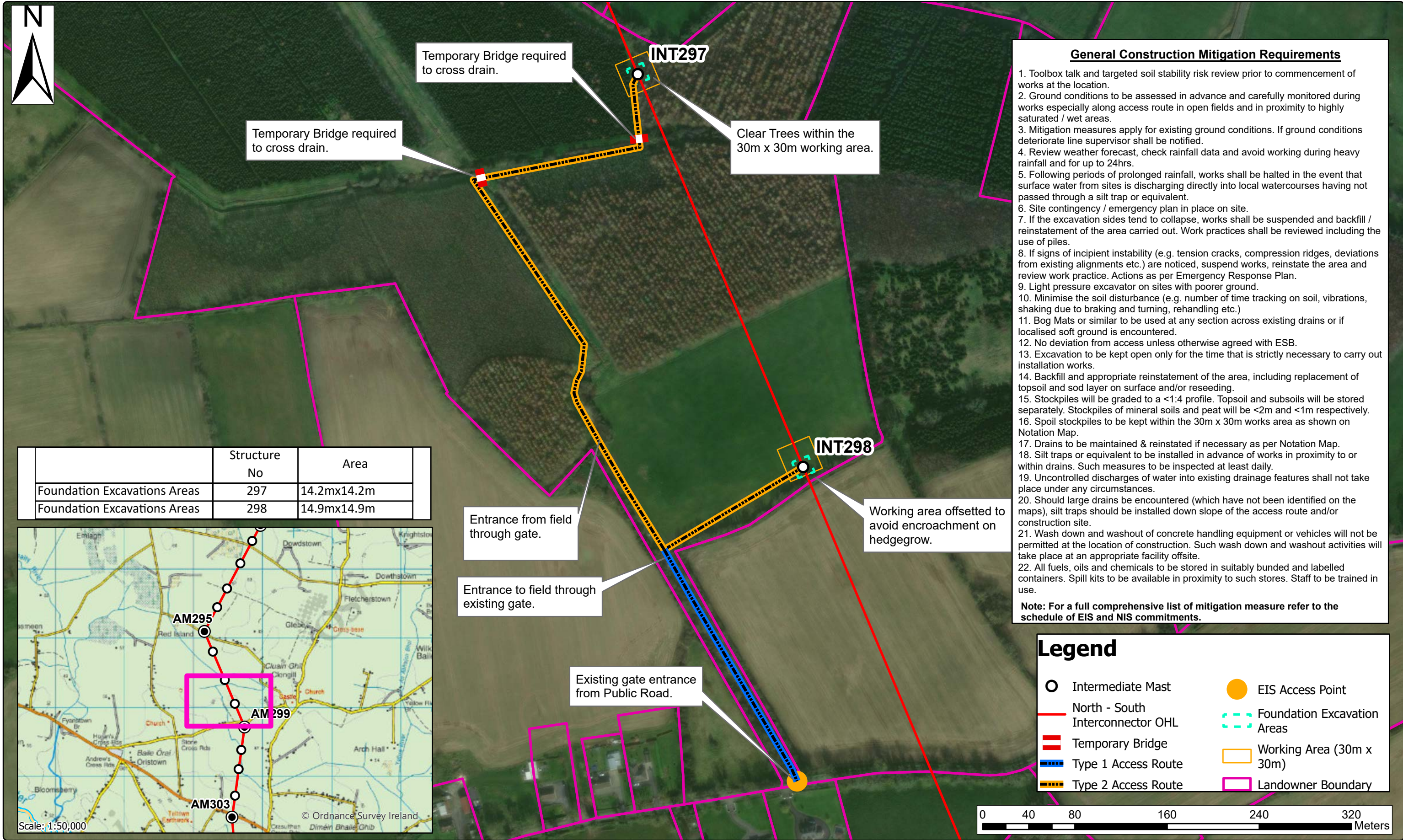
Engineering and Major Projects is a  
division of ESB.

CLIENT:	<b>ESB Networks</b>
PROJECT:	<b>North - South 400 kV Interconnector Development</b>
Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.	

PRODUCTION UNIT:	<b>Engineering &amp; Major Projects</b>
DRAWING TITLE:	<b>Environmental Map Intermediate Mast 256</b>

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVED DATE
GMM	GMM	-	-	26/07/2023
CLIENT REF.	NO. OF SHTS	SIZE	SCALE	
-	-	A3	1:3,000	
DRAWING NUMBER		SHEET REV		

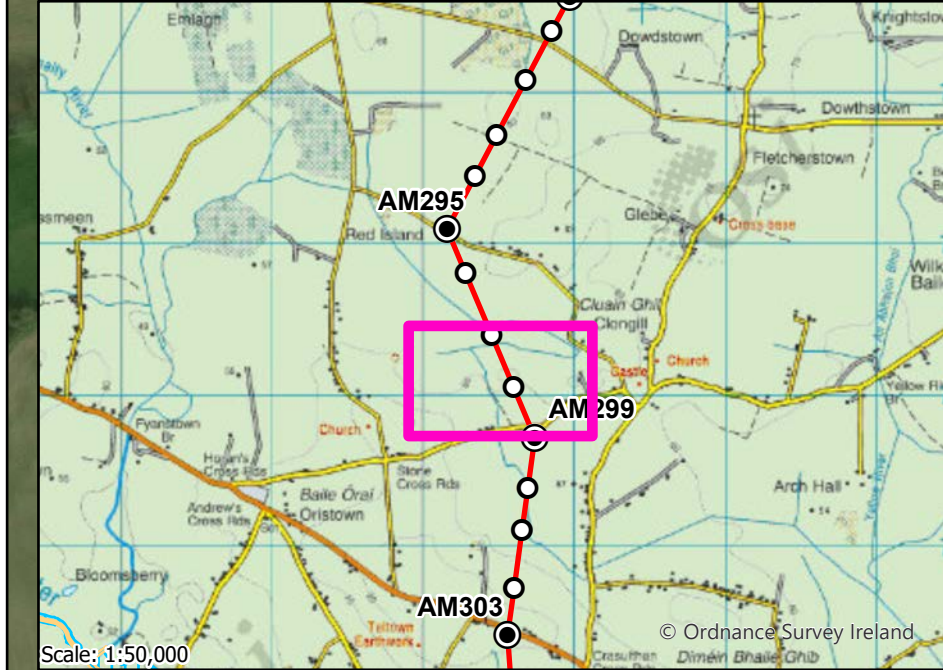




- General Construction Mitigation Requirements**
1. Toolbox talk and targeted soil stability risk review prior to commencement of works at the location.
  2. Ground conditions to be assessed in advance and carefully monitored during works especially along access route in open fields and in proximity to highly saturated / wet areas.
  3. Mitigation measures apply for existing ground conditions. If ground conditions deteriorate line supervisor shall be notified.
  4. Review weather forecast, check rainfall data and avoid working during heavy rainfall and for up to 24hrs.
  5. Following periods of prolonged rainfall, works shall be halted in the event that surface water from sites is discharging directly into local watercourses having not passed through a silt trap or equivalent.
  6. Site contingency / emergency plan in place on site.
  7. If the excavation sides tend to collapse, works shall be suspended and backfill / reinstatement of the area carried out. Work practices shall be reviewed including the use of piles.
  8. If signs of incipient instability (e.g. tension cracks, compression ridges, deviations from existing alignments etc.) are noticed, suspend works, reinstate the area and review work practice. Actions as per Emergency Response Plan.
  9. Light pressure excavator on sites with poorer ground.
  10. Minimise the soil disturbance (e.g. number of time tracking on soil, vibrations, shaking due to braking and turning, rehandling etc.)
  11. Bog Mats or similar to be used at any section across existing drains or if localised soft ground is encountered.
  12. No deviation from access unless otherwise agreed with ESB.
  13. Excavation to be kept open only for the time that is strictly necessary to carry out installation works.
  14. Backfill and appropriate reinstatement of the area, including replacement of topsoil and sod layer on surface and/or reseeding.
  15. Stockpiles will be graded to a <1:4 profile. Topsoil and subsoils will be stored separately. Stockpiles of mineral soils and peat will be <2m and <1m respectively.
  16. Spoil stockpiles to be kept within the 30m x 30m works area as shown on Notation Map.
  17. Drains to be maintained & reinstated if necessary as per Notation Map.
  18. Silt traps or equivalent to be installed in advance of works in proximity to or within drains. Such measures to be inspected at least daily.
  19. Uncontrolled discharges of water into existing drainage features shall not take place under any circumstances.
  20. Should large drains be encountered (which have not been identified on the maps), silt traps should be installed down slope of the access route and/or construction site.
  21. Wash down and washout of concrete handling equipment or vehicles will not be permitted at the location of construction. Such wash down and washout activities will take place at an appropriate facility offsite.
  22. All fuels, oils and chemicals to be stored in suitably banded and labelled containers. Spill kits to be available in proximity to such stores. Staff to be trained in use.
- Note: For a full comprehensive list of mitigation measure refer to the schedule of EIS and NIS commitments.**

- Legend**
- Intermediate Mast
  - North - South Interconnector OHL
  - ▬ Temporary Bridge
  - ▬ Type 1 Access Route
  - ▬ Type 2 Access Route
  - EIS Access Point
  - ▬ Foundation Excavation Areas
  - ▬ Working Area (30m x 30m)
  - ▬ Landowner Boundary

	Structure No	Area
Foundation Excavations Areas	297	14.2mx14.2m
Foundation Excavations Areas	298	14.9mx14.9m



Rev	Revision Description
	Purpose of Issue - Preliminary unless indicated
	Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>
Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland	



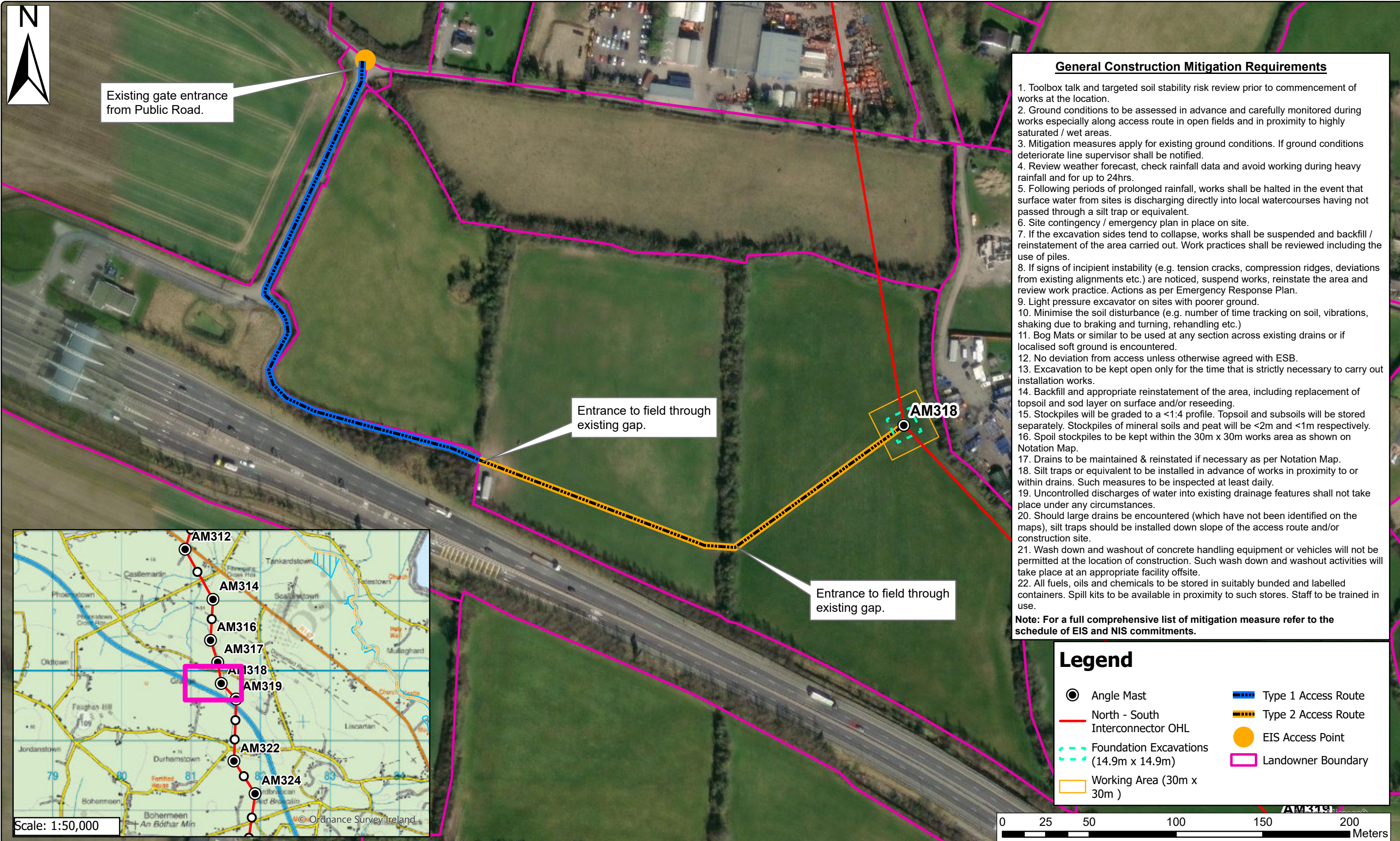
Engineering and Major Projects,  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.  
Tel: 353 1 703 8000 Web: www.esb.ie  
Engineering and Major Projects is a  
division of ESB.

CLIENT:	ESB Networks
PROJECT:	North - South 400 kV Interconnector Development
Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.	

PRODUCTION UNIT:	Engineering & Major Projects
DRAWING TITLE:	Environmental Map Intermediate Masts 297 & 298

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVED DATE
GMM	GMM	-	-	18/08/2023
CLIENT REF.	NO. OF SHTS	SIZE	SCALE	
-	-	A3	1:3,000	
DRAWING NUMBER	SHEET REV			





- ### General Construction Mitigation Requirements
1. Toolbox talk and targeted soil stability risk review prior to commencement of works at the location.
  2. Ground conditions to be assessed in advance and carefully monitored during works especially along access route in open fields and in proximity to highly saturated / wet areas.
  3. Mitigation measures apply for existing ground conditions. If ground conditions deteriorate line supervisor shall be notified.
  4. Review weather forecast, check rainfall data and avoid working during heavy rainfall and for up to 24hrs.
  5. Following periods of prolonged rainfall, works shall be halted in the event that surface water from sites is discharging directly into local watercourses having not passed through a silt trap or equivalent.
  6. Site contingency / emergency plan in place on site.
  7. If the excavation sides tend to collapse, works shall be suspended and backfill / reinstatement of the area carried out. Work practices shall be reviewed including the use of piles.
  8. If signs of incipient instability (e.g. tension cracks, compression ridges, deviations from existing alignments etc.) are noticed, suspend works, reinstate the area and review work practice. Actions as per Emergency Response Plan.
  9. Light pressure excavator on sites with poorer ground.
  10. Minimise the soil disturbance (e.g. number of time tracking on soil, vibrations, shaking due to braking and turning, rehandling etc.)
  11. Bog Mats or similar to be used at any section across existing drains or if localised soft ground is encountered.
  12. No deviation from access unless otherwise agreed with ESB.
  13. Excavation to be kept open only for the time that is strictly necessary to carry out installation works.
  14. Backfill and appropriate reinstatement of the area, including replacement of topsoil and sod layer on surface and/or reseedling.
  15. Stockpiles will be graded to a <1:4 profile. Topsoil and subsoils will be stored separately. Stockpiles of mineral soils and peat will be <2m and <1m respectively.
  16. Spoil stockpiles to be kept within the 30m x 30m works area as shown on Notation Map.
  17. Drains to be maintained & reinstated if necessary as per Notation Map.
  18. Silt traps or equivalent to be installed in advance of works in proximity to or within drains. Such measures to be inspected at least daily.
  19. Uncontrolled discharges of water into existing drainage features shall not take place under any circumstances.
  20. Should large drains be encountered (which have not been identified on the maps), silt traps should be installed down slope of the access route and/or construction site.
  21. Wash down and washout of concrete handling equipment or vehicles will not be permitted at the location of construction. Such wash down and washout activities will take place at an appropriate facility offsite.
  22. All fuels, oils and chemicals to be stored in suitably bundled and labelled containers. Spill kits to be available in proximity to such stores. Staff to be trained in use.
- Note: For a full comprehensive list of mitigation measure refer to the schedule of EIS and NIS commitments.**

### Legend

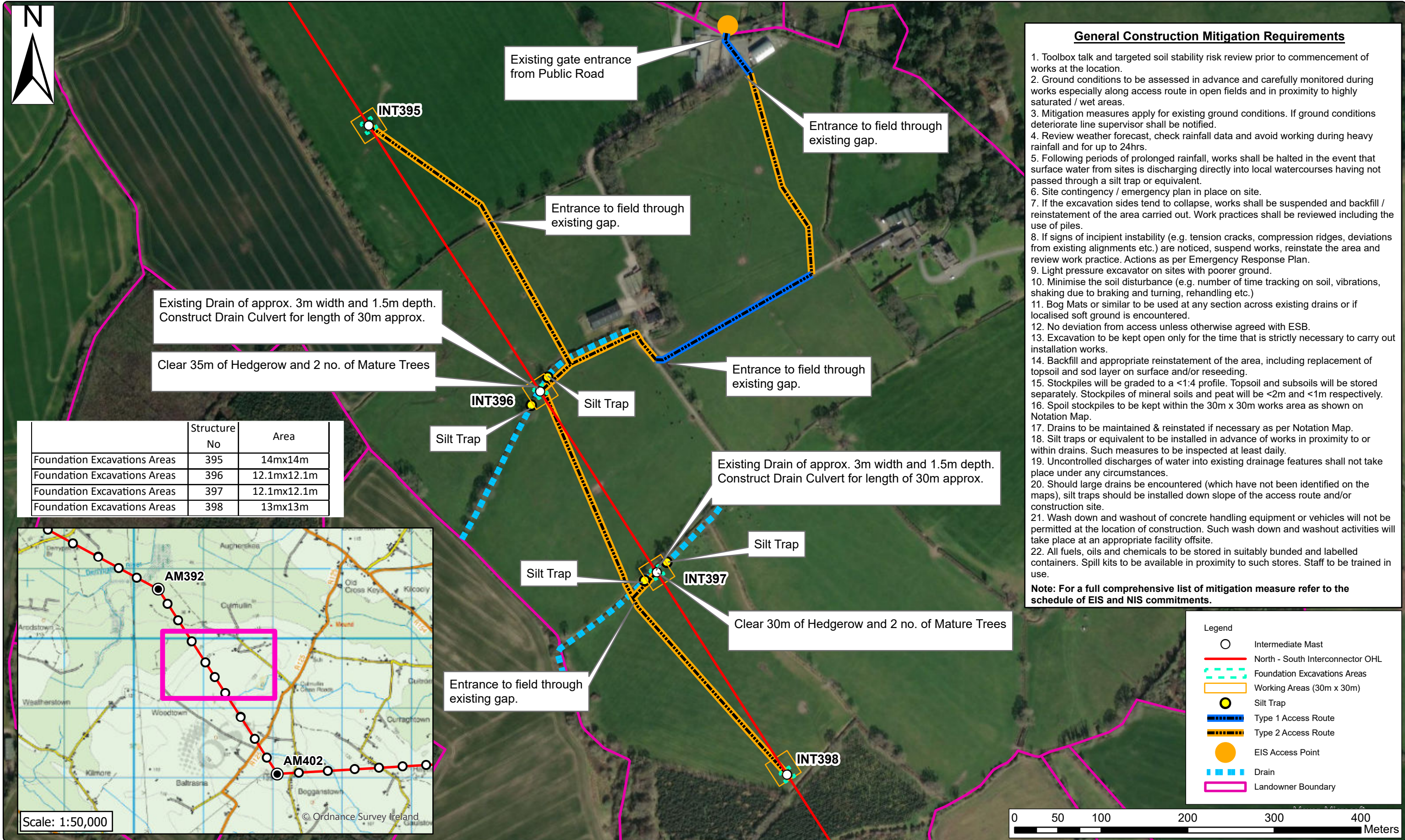
● Angle Mast	Type 1 Access Route
— North - South Interconnector OHL	Type 2 Access Route
Foundation Excavations (14.9m x 14.9m)	EIS Access Point
Working Area (30m x 30m )	Landowner Boundary

		CLIENT: <b>ESB Networks</b>		PRODUCTION UNIT: <b>Engineering &amp; Major Projects</b>		DRAWN <b>GMM</b>	PRODUCED <b>GMM</b>	VERIFIED <b>-</b>	APPROVED <b>-</b>	APPROVED DATE <b>26/07/2023</b>
		PROJECT: <b>North - South 400 kV Interconnector Development</b>		DRAWING TITLE: <b>Environmental Map Intermediate Mast 318</b>		CLIENT REF. <b>-</b>		NO. OF SHTS <b>-</b>	SIZE <b>A3</b>	SCALE <b>1:2,000</b>
Rev		Revision Description		Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.		DRAWING NUMBER				
		Purpose of Issue - Preliminary unless indicated				SHEET REV				
		Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>								
		Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland								



Engineering and Major Projects,  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.  
Tel: 353 1 703 8000 Web: www.esb.ie  
Engineering and Major Projects is a  
division of ESB.





**General Construction Mitigation Requirements**

1. Toolbox talk and targeted soil stability risk review prior to commencement of works at the location.
2. Ground conditions to be assessed in advance and carefully monitored during works especially along access route in open fields and in proximity to highly saturated / wet areas.
3. Mitigation measures apply for existing ground conditions. If ground conditions deteriorate line supervisor shall be notified.
4. Review weather forecast, check rainfall data and avoid working during heavy rainfall and for up to 24hrs.
5. Following periods of prolonged rainfall, works shall be halted in the event that surface water from sites is discharging directly into local watercourses having not passed through a silt trap or equivalent.
6. Site contingency / emergency plan in place on site.
7. If the excavation sides tend to collapse, works shall be suspended and backfill / reinstatement of the area carried out. Work practices shall be reviewed including the use of piles.
8. If signs of incipient instability (e.g. tension cracks, compression ridges, deviations from existing alignments etc.) are noticed, suspend works, reinstate the area and review work practice. Actions as per Emergency Response Plan.
9. Light pressure excavator on sites with poorer ground.
10. Minimise the soil disturbance (e.g. number of time tracking on soil, vibrations, shaking due to braking and turning, rehandling etc.)
11. Bog Mats or similar to be used at any section across existing drains or if localised soft ground is encountered.
12. No deviation from access unless otherwise agreed with ESB.
13. Excavation to be kept open only for the time that is strictly necessary to carry out installation works.
14. Backfill and appropriate reinstatement of the area, including replacement of topsoil and sod layer on surface and/or reseeding.
15. Stockpiles will be graded to a <1:4 profile. Topsoil and subsoils will be stored separately. Stockpiles of mineral soils and peat will be <2m and <1m respectively.
16. Spoil stockpiles to be kept within the 30m x 30m works area as shown on Notation Map.
17. Drains to be maintained & reinstated if necessary as per Notation Map.
18. Silt traps or equivalent to be installed in advance of works in proximity to or within drains. Such measures to be inspected at least daily.
19. Uncontrolled discharges of water into existing drainage features shall not take place under any circumstances.
20. Should large drains be encountered (which have not been identified on the maps), silt traps should be installed down slope of the access route and/or construction site.
21. Wash down and washout of concrete handling equipment or vehicles will not be permitted at the location of construction. Such wash down and washout activities will take place at an appropriate facility offsite.
22. All fuels, oils and chemicals to be stored in suitably banded and labelled containers. Spill kits to be available in proximity to such stores. Staff to be trained in use.

**Note: For a full comprehensive list of mitigation measure refer to the schedule of EIS and NIS commitments.**

- Legend
- Intermediate Mast
  - North - South Interconnector OHL
  - - - Foundation Excavations Areas
  - Working Areas (30m x 30m)
  - Silt Trap
  - ▬ Type 1 Access Route
  - ▬ Type 2 Access Route
  - EIS Access Point
  - ▬ Drain
  - ▬ Landowner Boundary

Rev	Revision Description
	Purpose of Issue - Preliminary unless indicated
Tender <input type="checkbox"/> Client Approval <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/> Revised <input type="checkbox"/>	
Ordnance Survey Ireland Licence No. EN 0092320 © Ordnance Survey Ireland/Government of Ireland	



Engineering and Major Projects,  
One Dublin Airport Central,  
Dublin Airport, Cloghran,  
Co. Dublin, K67 XF72, Ireland.  
Tel: 353 1 703 8000 Web: www.esb.ie  
Engineering and Major Projects is a  
division of ESB.

CLIENT:	<b>ESB Networks</b>
PROJECT:	<b>North - South 400 kV Interconnector Development</b>
Copyright © ESB All rights reserved. No part of this work may be modified, reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or used for any purpose other than its designated purpose, without the written permission of ESB.	

PRODUCTION UNIT:	<b>Engineering &amp; Major Projects</b>
DRAWING TITLE:	<b>Environmental Map Intermediate Masts 395, 396, 397 &amp; 398</b>

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVED DATE
GMM	GMM	-	-	26/07/2023
CLIENT REF.	NO. OF SHTS	SIZE	SCALE	
-	-	A3	1:4,000	
DRAWING NUMBER		SHEET REV		