



PINS Document Number:
EN010140/APP/9.13

Preliminary Flood Compensation Scheme

April 2025

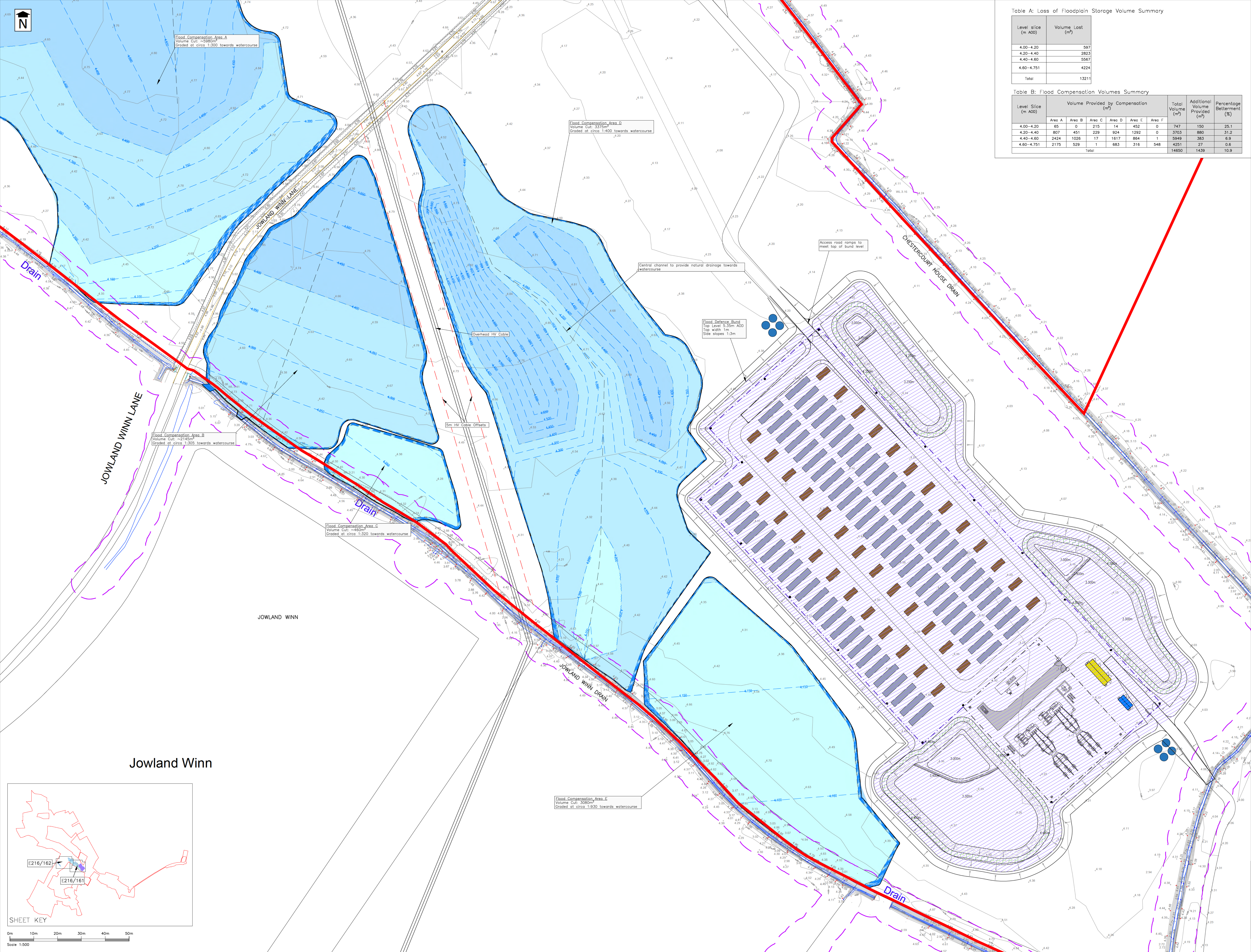


Table A: Loss of Floodplain Storage Volume Summary

Level slice (m AOD)	Volume Lost (m³)
4.00-4.20	597
4.20-4.40	2823
4.40-4.60	5567
4.60-4.751	4224
Total	13211

Table B: Flood Compensation Volumes Summary

Level Slice (m AOD)	Volume Provided by Compensation (m³)						Total Volume (m³)	Additional Volume Provided (m³)	Percentage Betterment (%)
	Area A	Area B	Area C	Area D	Area E	Area F			
4.00-4.20	65	215	14	452	0	0	747	150	25.1
4.20-4.40	807	451	229	924	1292	0	3703	880	31.2
4.40-4.60	2424	1026	17	1617	864	1	5949	383	6.9
4.60-4.751	2175	529	1	683	316	548	4251	27	0.6
Total							14550	1439	10.9

Stratton Park House, Wanborough Road
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For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

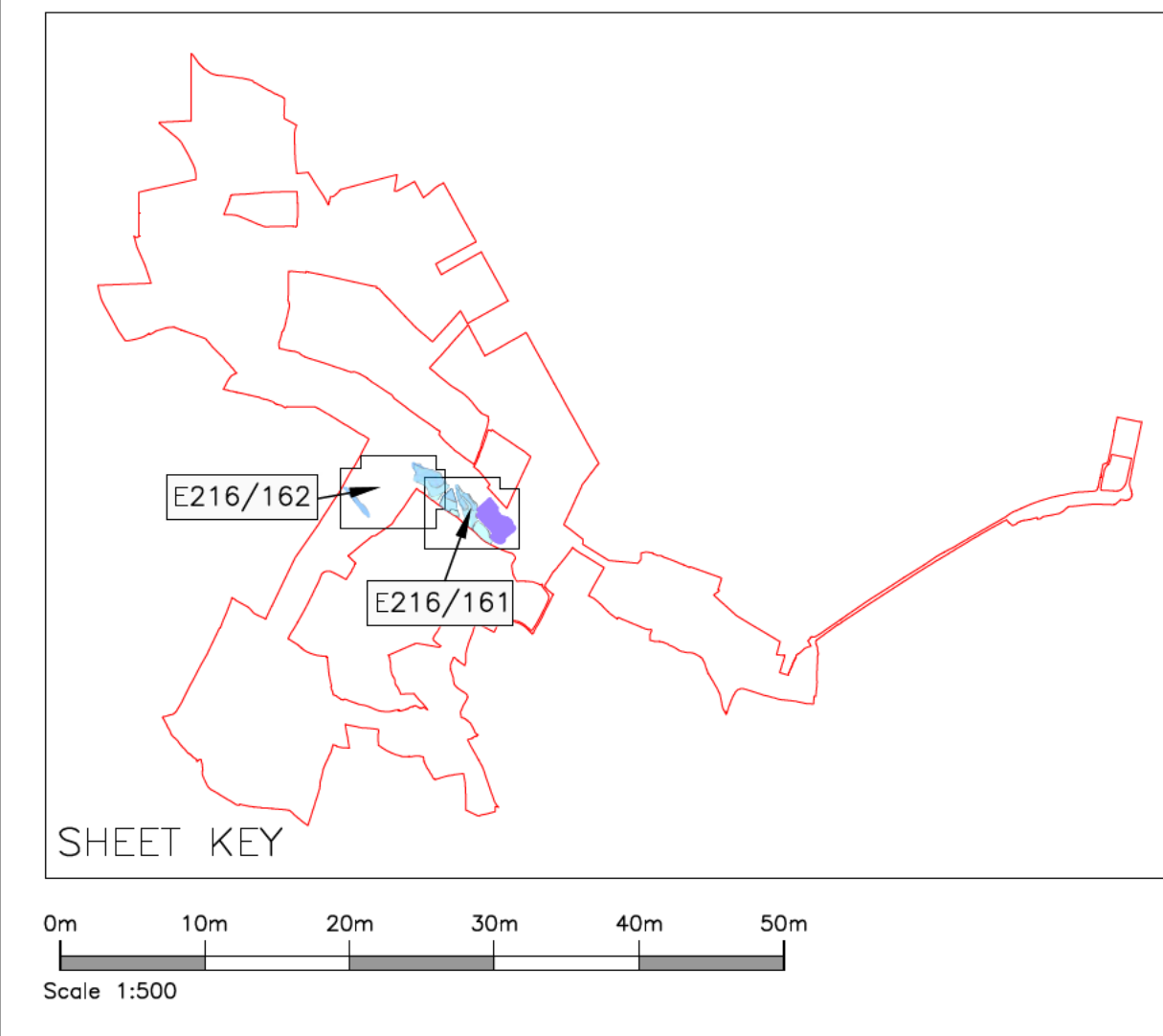
KEY

- Site Boundary
- 7m Watercourse Maintenance Buffer
- Watercourse
- SUDS Feature Earthworks
- Existing Levels (UDAR DTM / Survey)
- Flood Defence Bund
Top Level: 5.35m AOD
Top Width: 1m
Side Slopes: 1:3m
Assumed Flood level: 4.75m AOD
- Area protected by Flood Defence Bund / Flood storage volume lost
- Floodplain Compensation Area Earthworks

NOTES

- Drawing based on Substation/BESS Block Plan, produced by Enso Energy, Drawing No. EX-01-P42, Rev 01 (Dated 01/02/24).
- Drawing based on Topographical Survey, produced by Storm Geomatics, Drawing Nos. 851/15 and 851/16 (Dated: 09/10/2023).
- Drawing is based on 1m DTM UDAR Data. Environment Agency copyright and/or database right 2022.
- Surface water drainage for the BESS area subject to detailed design and technical approval.
- Drawing to be read in conjunction with Flood Risk Assessment (including drainage strategy), Document Reference: (218-00001-FRA).
- As an adaptation measure the Substation and BESS Compound would be protected by a suitably designed earth flood defence bund. The height of the proposed earth flood defence bund would be raised at least +0.6m above the fluvial 'credible maximum scenario sensitivity test' flood level to protect equipment from inundation.
- As an adaptation measure a level for level and volume floodplain compensation scheme would be implemented to mitigate the effect of the earth flood defence bund on the potential fluvial flood risk at the end of the decommissioning period (the fluvial 'credible maximum scenario sensitivity test' flood).
- Earth flood defence bunds is indicative only and subject to detailed design and technical approval.
- Floodplain compensation areas are preliminary and subject to detailed design and technical approval.
- A preliminary floodplain compensation scheme within the DCO limits is shown to be feasible on Drawing Nos. E216/161-162 Rev A based on outputs from the Environment Agency approved site-specific flood modelling.
- A detailed Flood Management Strategy containing details of the flood defence bund and floodplain compensation scheme adaptation measures based on the outputs of the Environment Agency approved site-specific flood model would be secured by a suitably worded DCO Requirement.
- No building factor has been applied to earthworks volumes stated.

Jowland Winn



Rev	Date	Description	Drawn	Check
#	07/06/24	First Issue	BF	SAM
A	24/03/25	Notes updated to reflect the mechanism for the delivery of adaptation measures agreed with the Environment Agency.	BF	MWS

Status
FOR PLANNING

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
Preliminary Floodplain Compensation Scheme Sheet 1 of 2

Drawing No. **E216/161** Rev A
Date: June 2024 Scale: 1:500 @ A0
E-Mail: @pfaplc.com

Table A: Loss of Floodplain Storage Volume Summary

Level slice (m AOD)	Volume Lost (m³)
4.00-4.20	597
4.20-4.40	2823
4.40-4.60	5567
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Total	13211

Table B: Flood Compensation Volumes Summary

Level Slice (m AOD)	Volume Provided by Compensation (m³)						Total Volume (m³)	Additional Volume Provided (m³)	Percentage Betterment (%)
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- KEY**
- Site Boundary
 - 7m Watercourse Maintenance Buffer
 - Watercourse
 - SuDS Feature Earthworks
 - Existing Levels (LiDAR DTM / Survey)
 - Flood Defence Bund
 - Top Level: 6.35m AOD
 - Top Width: 1m
 - Side Slopes: 1:3m
 - Assumed Flood level: 4.75m AOD
 - Area protected by Flood Defence Bund / Flood storage volume lost
 - Floodplain Compensation Area Earthworks

NOTES

- Drawing based on Substation/BESS Block Plan, produced by Uno Energy, Drawing No. DX-01-P42, Rev 01 (Dated 01/02/24).
- Drawing based on Topographical Survey, produced by Storm Geomatics, Drawing Nos. 651/15 and 651/16 (Dated: 09/10/2023).
- Drawing is based on 1m DTM LiDAR Data, Environment Agency copyright and/or database right 2022.
- Surface water drainage for the BESS area subject to detailed design and technical approval.
- Drawing to be read in conjunction with Flood Risk Assessment (including drainage strategy), Document Reference: E216-DOC01-FRA.
- As an adaptation measure the Substation and BESS Compound would be protected by a suitably designed earth flood defence bund. The height of the proposed earth flood defence bund would be raised at least 10.8m above the fluvial credible maximum scenario sensitivity test flood level to protect equipment from inundation.
- As an adaptation measure a level for level and volume floodplain compensation scheme would be implemented to mitigate the effect of the earth flood defence bund on the potential fluvial flood risk at the end of the decommissioning period (the fluvial credible maximum scenario sensitivity test flood).
- Earth flood defence bund is indicative only and subject to detailed design and technical approval.
- Floodplain compensation areas are preliminary and subject to detailed design and technical approval.
- A preliminary floodplain compensation scheme within the DCO limits is shown to be feasible on Drawing Nos. E216/161-162 Rev A based on outputs from the Environment Agency approved site-specific flood modelling.
- A detailed Flood Management Strategy containing details of the flood defence bund and floodplain compensation scheme adaptation measures based on the outputs of the Environment Agency approved site-specific flood model would be secured by a suitably worded DCO Requirement.
- No bulking factor has been applied to earthworks volumes stated.



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NOTES

1.

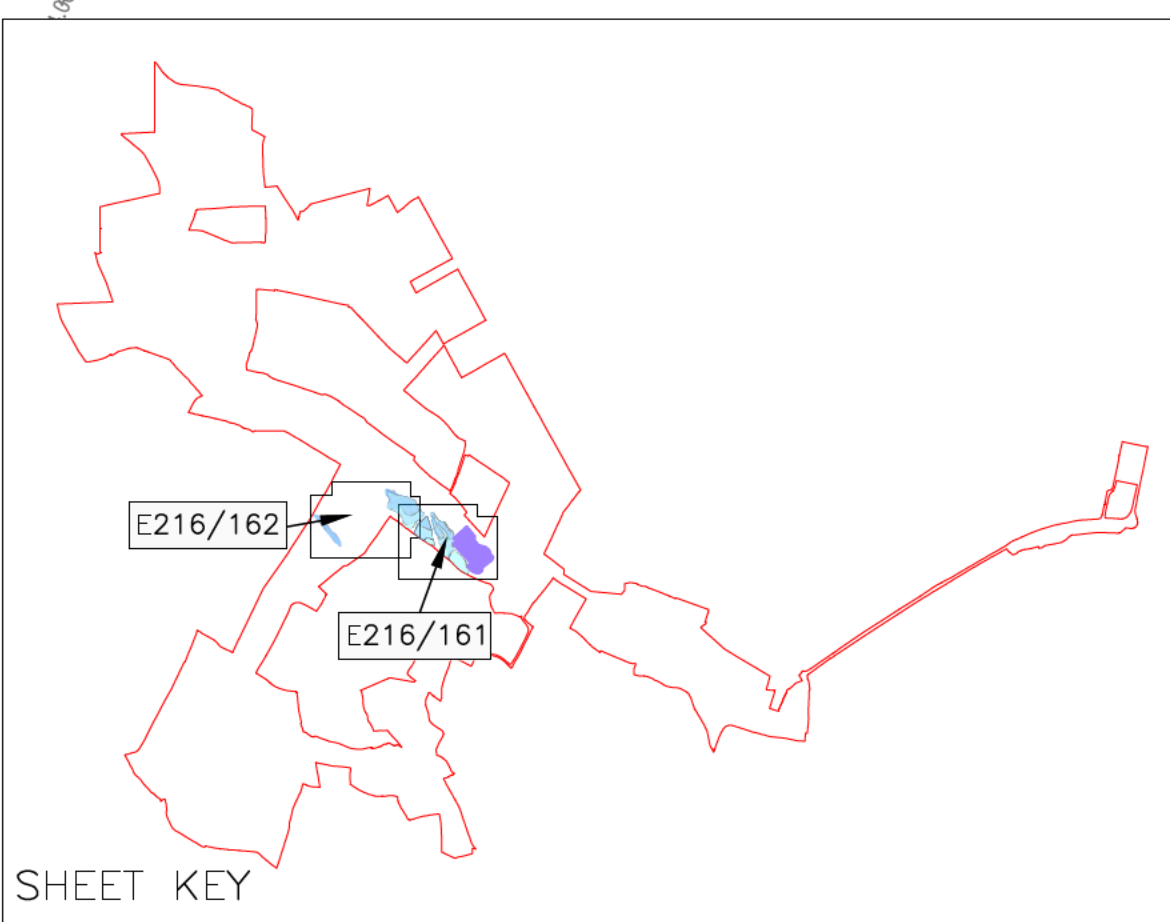
Flood Compensation Area A
Volume Cut: ~5980m³
Graded at circa 1:300 towards watercourse

Flood Compensation Area E
Volume Cut: ~1270m³
Graded at circa 1:400 towards track

Atkinson Wood
Path (up)

Drain

JOWLAND WINN LANE



0m 10m 20m 30m 40m 50m
Scale 1:500

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Status
FOR PLANNING

Client
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Project
Helios Renewable Energy Project

Drawing Title
Preliminary Floodplain Compensation Scheme Sheet 2 of 2

Drawing No. **E216/162** Rev A
Date: June 2024 Scale: 1:500 @ A0
E-Mail: bf@pfapl.com