



- NOTES:**
- ONLY SCALE FOR PLANNING PURPOSES.
  - ALL DIMENSIONS ARE SHOWN IN METRES UNLESS OTHERWISE STATED.
  - THE DRAWING IS TO BE PRINTED IN COLOUR.
  - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELEVANT TECHNICAL NOTES AND ALL OTHER RELEVANT DRAWINGS.
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSE.
  - FLOW CONTROL SHALL BE THROUGH ORIFICE PLATE ON THE INCOMING PIPE.
  - FLOOD RELIEF CULVERTS HAVE BEEN DETERMINED BASED ON FLOOD MODELING PROVIDED BY OTHERS AND ARE SHOWN INDICATIVE ONLY. THE EXACT CULVERT DETAILS SHALL BE FINALISED AT PART A DESIGN STAGE.
  - EROSION PROTECTION SHALL BE PROVIDED AT ALL HEADWALL OUTLETS.
  - PROPOSED CHAMBER TYPES ARE AS FOLLOWS:  
T2: MCHW TYPE 2 1500mm Ø CHAMBER  
T7: MCHW TYPE 7 CATCHPIT  
T8: MCHW TYPE 8 CATCHPIT  
RE: RODDING EYE
  - THE INCLUSION OF ADDITIONAL ATTENUATION FEATURES, SUCH AS DETENTION BASINS, WITHIN THE RED LINE BOUNDARY WILL BE CONFIRMED FOLLOWING CONSULTATIONS WITH PERTH AND KINROSS COUNCIL.

KEY:	
	HAUL TRACK CENTRELINE
	PROPOSED HIGH CONTAINMENT KERB
	PROPOSED GRASSED SWALE
	PROPOSED GRASSED DITCH
	PROPOSED FILTER DRAIN
	PROPOSED CARRIER DRAIN
	EXISTING CARRIER DRAIN
	PROPOSED CATCHPIT (REFER NOTE 9)
	PROPOSED FLOW CONTROL CATCHPIT (REFER NOTES 6 & 9)
	PROPOSED GULLY
	PROPOSED HEADWALL
	PROPOSED CHECK DAM
	PROPOSED CULVERT
	FLOOD RELIEF CULVERTS (REFER NOTE 7)
	RED LINE BOUNDARY

**Designer's Site Specific Risk Assessment**

This assessment is for non-standard or unusual Hazards and it is expected that Hazards associated with standard installations and designs are well understood by a competent Contractor.

By: \_\_\_\_\_ Date: \_\_\_\_\_

☐ No works associated with this drawing

**HAZARDS/ ACTIVITY** - Assessed as Low (L) / Medium (M) / High (H)

<ul style="list-style-type: none"><li>Falls From Height</li><li>Hazardous Material</li><li>Excavation/Service Strike</li><li>HAVS</li><li>Confined Workplace</li><li>Access/Egress</li><li>Weight Limit</li><li>Residual Electricity</li></ul>	<ul style="list-style-type: none"><li>Drowning/Fall onto Rebar</li><li>Contaminated Land</li><li>Poor Ground conditions</li><li>Site Fabrication/Drilling</li><li>Manual Handling</li><li>Stored Energy</li><li>Congested site</li><li>Existing equipment in close proximity</li></ul>
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**Interfaces:** ☐ Public ☐ Operatives ☐ Vehicle/Plant

**WHO COULD BE HARMED?**

<ul style="list-style-type: none"><li>Construction operatives</li><li>Dismantling crew</li><li>Future maintenance crew</li><li></li></ul>	<b>CONTROL MEASURES</b> <ul style="list-style-type: none"><li>Existing work instruction</li><li>Method detailed on drawing</li><li>Method detailed on separate document</li></ul>
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**TEMPORARY WORKS**

<ul style="list-style-type: none"><li>No temporary works required</li><li>Temporary works required and documented separately</li><li>Drawing contains temporary works:</li></ul>	} Complete temporary works design check certificate ENG-SF-0101C										
<table><tr><td>DC01</td><td>-</td></tr><tr><td>DC1</td><td>-</td></tr><tr><td>DC2</td><td>- More complex design</td></tr><tr><td>DC3</td><td>- Complex/Innovative</td></tr><tr><td>DC4</td><td>- Abnormal Highly innovative</td></tr></table>		DC01	-	DC1	-	DC2	- More complex design	DC3	- Complex/Innovative	DC4	- Abnormal Highly innovative
DC01		-									
DC1		-									
DC2	- More complex design										
DC3	- Complex/Innovative										
DC4	- Abnormal Highly innovative										

**Level 1 Control**

<input type="checkbox"/>	OK to proceed, no significant design hazards and risks, standard control measures apply.
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**Level 2 Control**

<input type="checkbox"/>	OK to proceed as detailed in existing work instruction or procedure detailed on drawing or separate document.
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**Level 3 Control**

<input type="checkbox"/>	OK to proceed providing specific design hazards and risks have been recognised, acknowledged and understood by the operation team. Site operatives may require additional instruction/training
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**CDM REGULATIONS RESIDUAL RISKS**

Design based hazards are actively eliminated where possible. Where hazards cannot be eliminated, this symbol along with an attached note will identify the hazard and indicate that an action is required by the person supervising the works to manage the design hazard during construction.

Other than those noted, we are not aware of any further residual design risks apart from those that a competent contractor would ordinarily consider.

**RESIDUAL RISK METER**

LOW MEDIUM HIGH

OVERALL RISK SCORE = xx / xx

DRAWN	RS	REMARKS:
CHKD	SRA	SIXTH ISSUE - SCALE BAR ADDED
DESIGN	RS	STATUS S5 DATE 03/06/2025
APPD	FY	FOR ACCEPTANCE REV P06
DRAWN	RS	REMARKS:
CHKD	SRA	FIFTH ISSUE - MINOR AMENDMENTS
DESIGN	RS	STATUS S5 DATE 14/05/2025
APPD	FY	FOR ACCEPTANCE REV P05
DRAWN	RS	REMARKS:
CHKD	SRA	FOURTH ISSUE - MINOR AMENDMENTS
DESIGN	RS	STATUS S5 DATE 21/03/2025
APPD	FY	FOR ACCEPTANCE REV P04
DRAWN	RS	REMARKS:
CHKD	SRA	THIRD ISSUE
DESIGN	RS	STATUS S5 DATE 26/02/2025
APPD	FY	FOR ACCEPTANCE REV P03
DRAWN	GU	REMARKS:
CHKD	SRA	SECOND ISSUE
DESIGN	GU	STATUS S5 DATE 15/01/2025
APPD	FY	FOR ACCEPTANCE REV P02
DRAWN	GU	REMARKS:
CHKD	AC	FIRST ISSUE
DESIGN	SRA	STATUS S5 DATE 12/12/2024
APPD		FOR ACCEPTANCE REV P01

**Balfour Beatty**

PROJECT NAME:  
ASTI-ECE

LOCATION:  
CAMBUSHINNIE 400KV S/S

SITE:  
CMBS

TITLE:  
**BRACO HAUL TRACK DRAINAGE LAYOUT SHEET 2**

SIZE	SCALE	FORMAT	SHEET No.
A1	1:1000	ACAD	02 OF 02

DRAWING No.  
CMBS-LT520-BB-TRAC-ZZ-D-H-0016