

SAFETY HEALTH & ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following risks and information.

Risks listed here are not exhaustive. Refer to Designer's Risk Assessment and pre-construction phase plan.

CONSTRUCTION

C1

Managing flow & stage levels in River Fowey

- Monitor flow levels & flood warnings.
- Check adequacy of cut-off & stability of cofferdams.

C2

Managing seepage flows through weir

- Monitor seepage.
- Check stability of cut face in weir and assess permeability of formation material.
- Check adequacy of cut-off & stability of cofferdams.

C3

Risk of falls from height

- Check depth of excavations.
- Check adequate edge protection and access provision onto weir.

C4

Lifting

- Check crane lifting facilities & constraints.
- Check access weight & size restrictions for crane along access route to site.

C5

Interface with public & other site operations

- Check adequate warning signs and fencing in place.

C6

Services

- Check for services.

C7

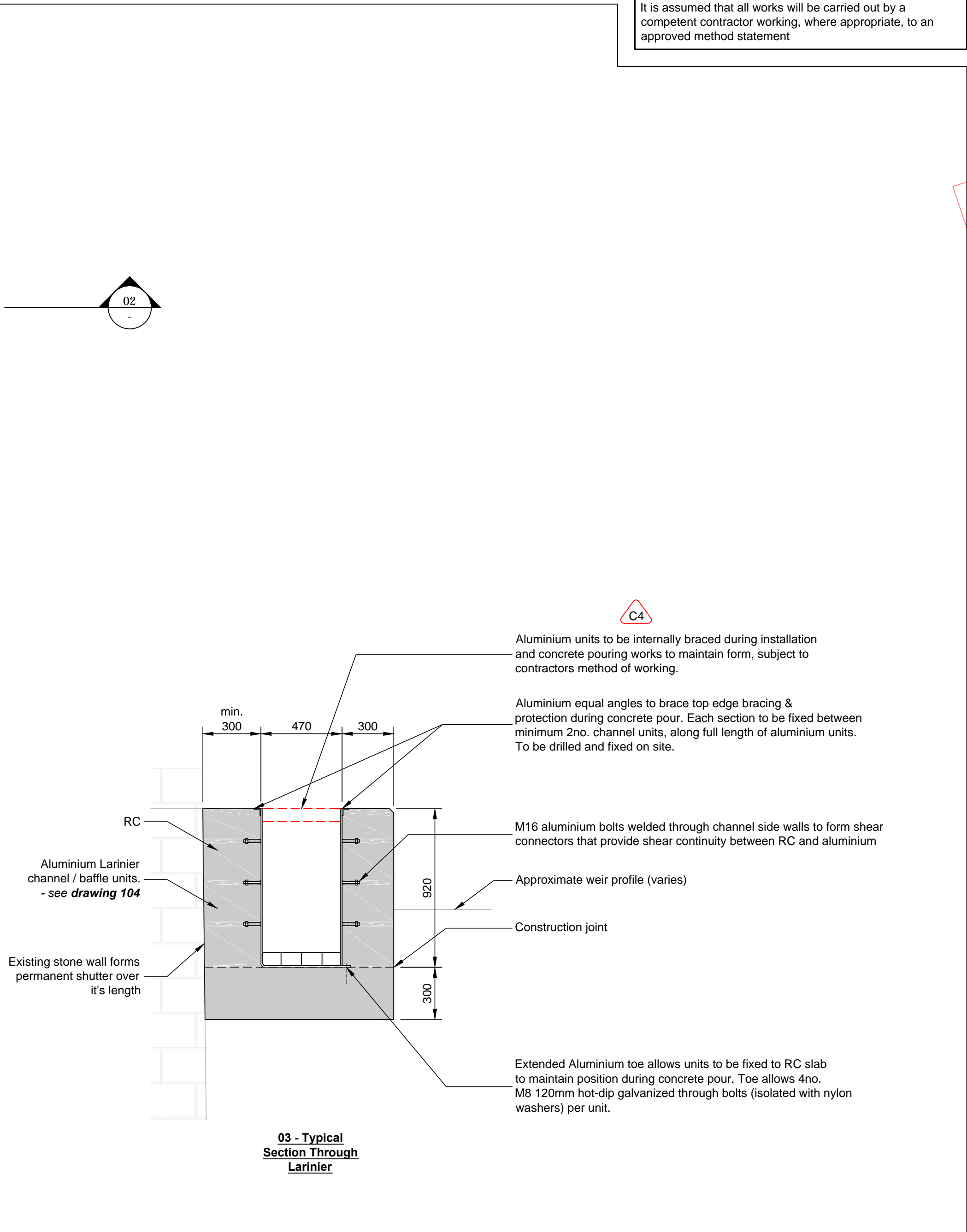
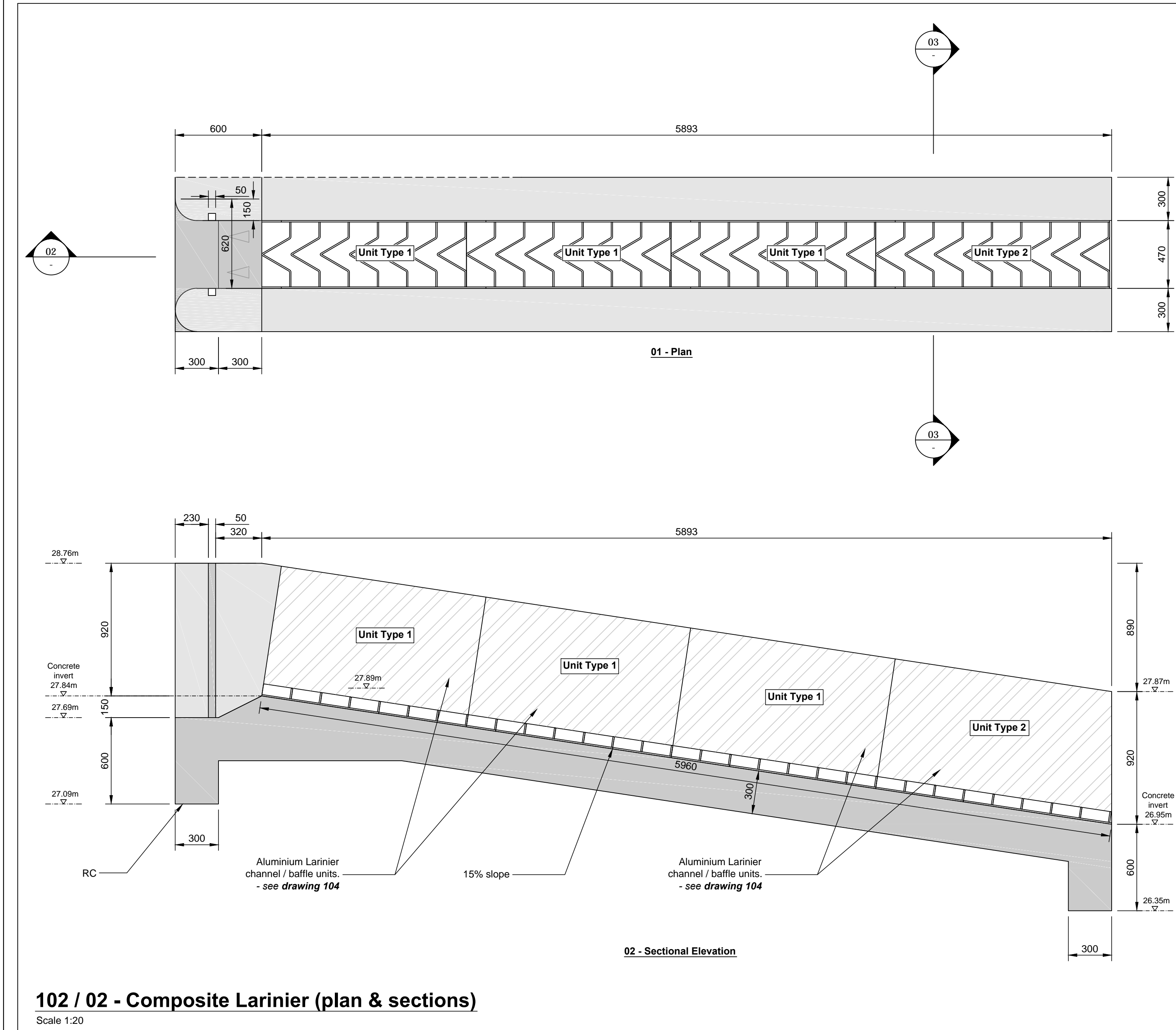
Stability of Excavations & Structures

- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

For information relating to Use, Cleaning and Maintenance see the Health and Safety File

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

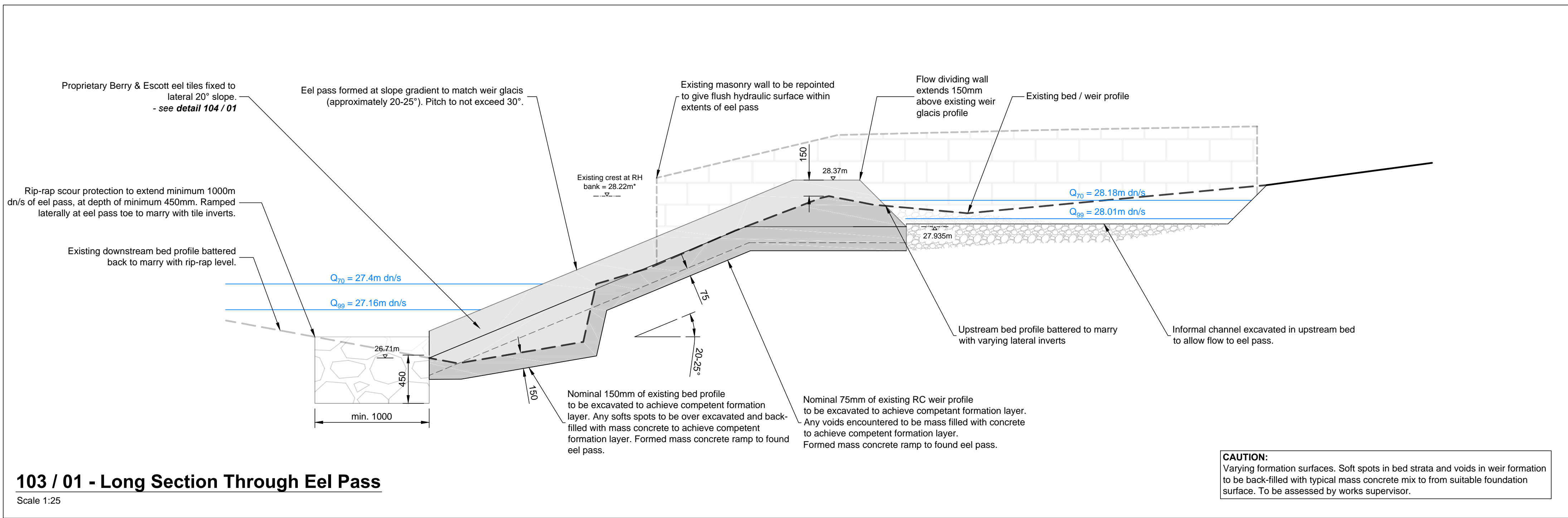
- NOTES:**
- 1. DIMENSIONS:**
- Are in millimetres unless otherwise stated
 - Marked thus (?) are approximate
 - All levels are in metres to Site Datum
 - Critical levels set out to crest level. Temporary site datum to be agreed on site.
- 2. SPECIFICATION:**
- All works to be carried out in accordance with the Environment Agency Minimum Technical Requirements which shall be the Civil Engineering Specification for the Water Industry (CESWI).
- 3. REINFORCED & MASS CONCRETE**
- All concrete to comply with BS 8500-2.
 - **Mass concrete and reinforced concrete** of the same mix.
 - Concrete to have a minimum strength class of C35 / 45.
 - **Designated Mix REQUIREMENTS:**
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
 - Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4446 or BS4449.
 - Minimum cover to reinforcement C_{min} = 60mm.
 - All exposed edges to have 25mm chamfer, with exception to abutting joints.
 - Exposed formed concrete to have fair worked finish.
 - Exposed unformed concrete to have wood float finish.
 - Nominal 100mm layer of mass concrete blinding for pours.
- 4. RIP-RAP SCOUR PROTECTION:**
- Rip-rap scour protection to comprise of natural hard stone with nominal density 2700kg/m³. Approximate grading to be: 50% 300mm<Ø<450mm, 50% 150mm<Ø<300mm.



For Information Purposes only

Not for construction

P01	For Information	20 / 06 / 19
Issue	Description	Date
Status	Detailed Design	
Scales	As shown	Current Issue Signatures
Original Size	A1	Author M.Giblin
Datum	N/A	Checker M.Lakin
Grid	N/A	Approver I.St-R.
Filename:	© Copyright reserved	
Client		
PROJECT	WFG Framework Glynn Weir	
TITLE	Larinier Fish Pass Plan and Sections	
Drawing No.	Project No.	Issue
0102	- 02458	- P01



SAFETY HEALTH & ENVIRONMENTAL INFORMATION

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- Monitor flow levels & flood warnings.
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C2

Managing seepage flows through weir

- Monitor seepage.
- Check stability of cut face in weir and assess permeability of formation material.
- Check adequacy of cut-off & stability of cofferdams.

C3

Risk of falls from height

- Check depth of excavations.
- Check adequate edge protection and access provision onto weir.

C4

Lifting

- Check craneage lifting facilities & constraints.
- Check access weight & size restrictions for craneage along access route to site.

C5

Interface with public & other site operations

- Check adequate warning signs and fencing in place.

C6

Services

- Check for services.

C7

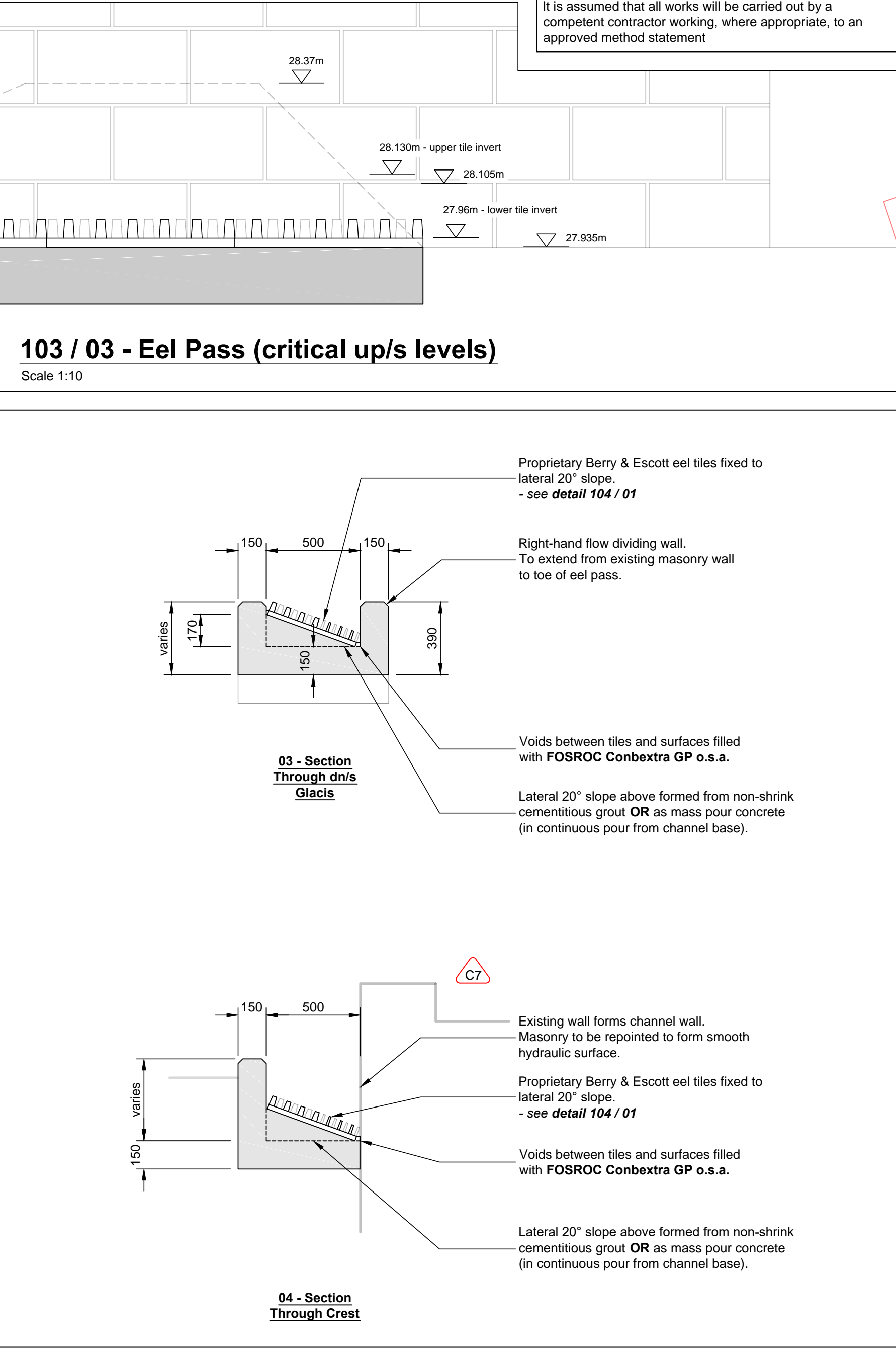
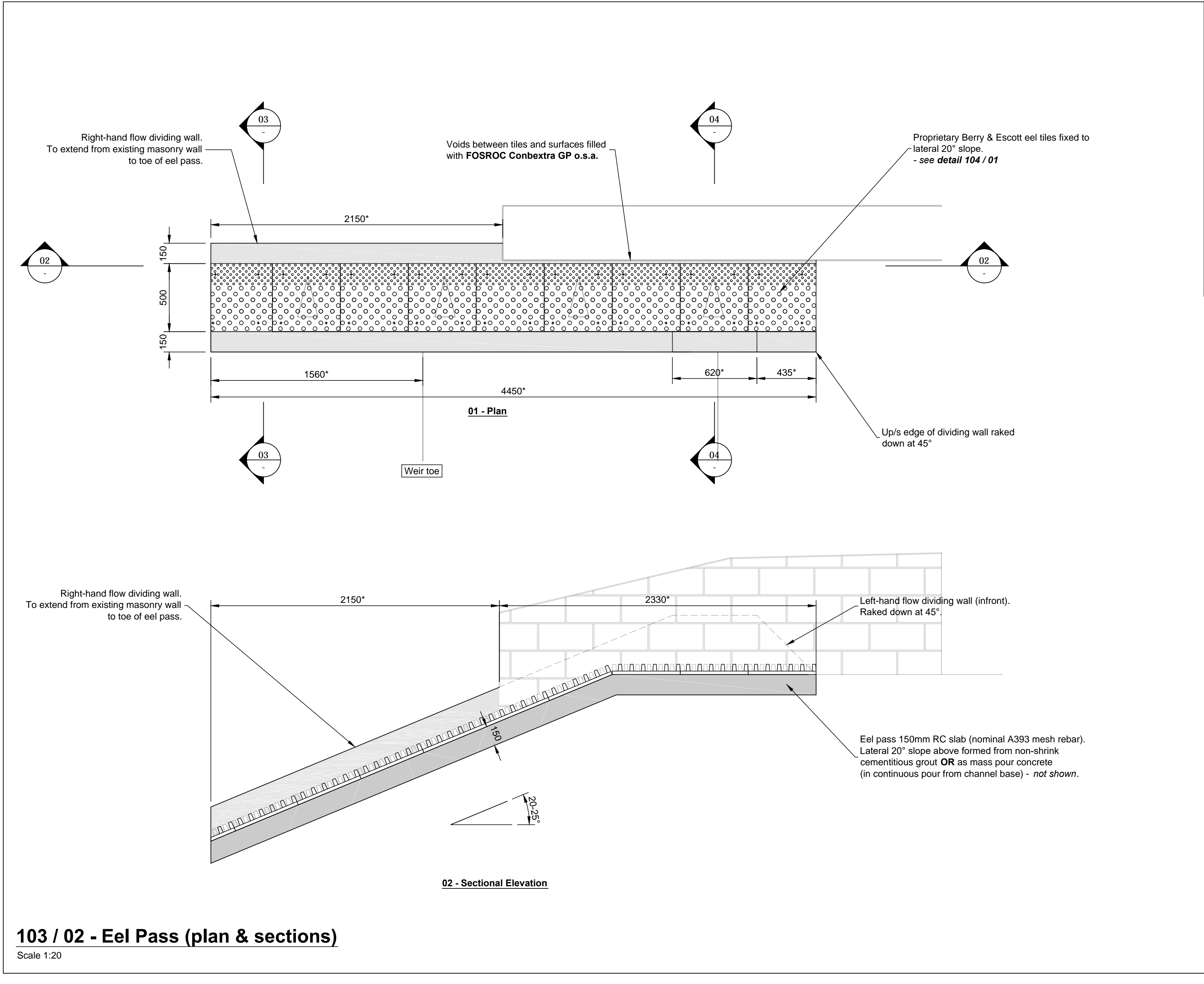
Stability of Excavations & Structures

- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

For information relating to Use, Cleaning and Maintenance see the Health and Safety File

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

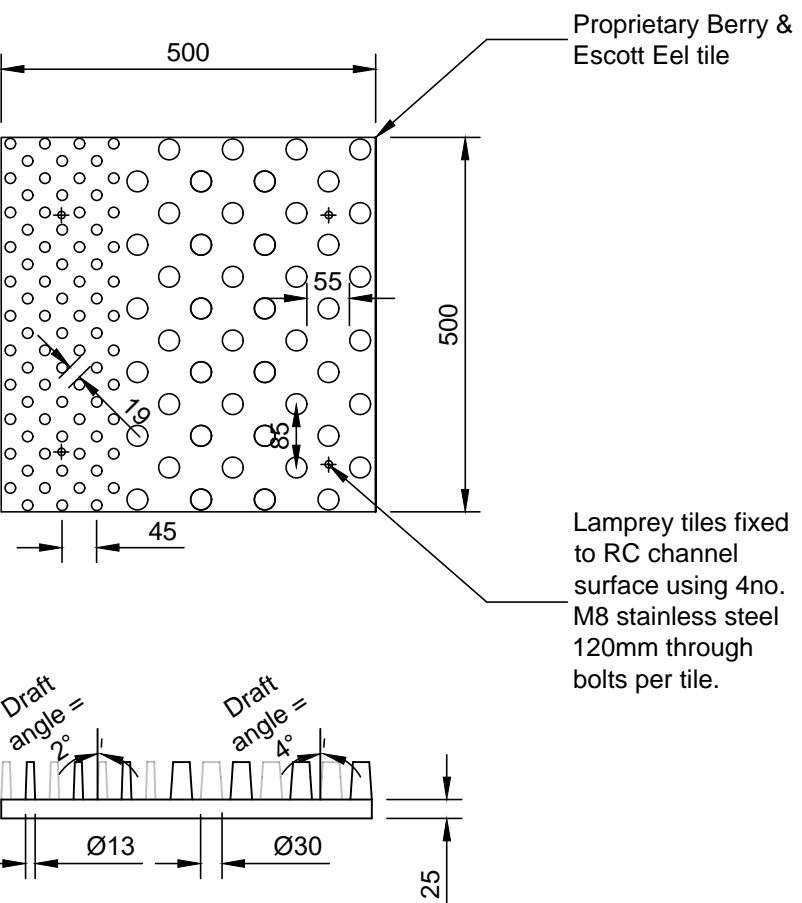
- NOTES:**
- 1. DIMENSIONS:**
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- All concrete to comply with BS 8500-2.
 - Mass concrete and reinforced concrete of the same mix.
 - Concrete to have a minimum strength class of C35 / 45.
 - Designated Mix REQUIREMENTS:
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
 - Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4449 or BS4449.
 - Minimum cover to reinforcement C_{min} = 60mm.
 - All exposed edges to have 25mm chamfer, with exception to abutting joints.
 - Exposed formed concrete to have fair worked finish.
 - Exposed unformed concrete to have wood float finish.
 - Nominal 100mm layer of mass concrete blinding for pours.
- 4. RIP-RAP SCOUR PROTECTION:**
- Rip-rap scour protection to comprise of natural hard stone with nominal density 2700kg/m³. Approximate grading to be: 50% 300mm<Ø<450mm, 50% 150mm<Ø<300mm.



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P01	For Information	20 / 06 / 19
Issue	Description	Date
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Original Size	A1	Author M.Giblin
Datum	N/A	Checker M.Lakin
Grid	N/A	Approver I.St-R.
Filename:	© Copyright reserved	
Client	Westcountry Rivers Trust	
PROJECT	WFG Framework Glynn Weir	
TITLE	Eel Pass Plan and Sections	
Drawing No.	Project No.	Issue
0103	- 02458	- P01



Approximately 11no. Required,
cut to suit where required

104 / 01 - Eel Tile Substrate

Scale 1:10

SAFETY HEALTH & ENVIRONMENTAL INFORMATION

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CONSTRUCTION

Managing flow & stage levels in River Fowey
- Monitor flow levels & flood warnings.
- Check adequacy of cut-off & stability of cofferdams.

Managing seepage flows through weir
- Monitor seepage.
- Check stability of cut face in weir and assess permeability of formation material.
- Check adequacy of cut-off & stability of cofferdams.

Risk of falls from height
- Check depth of excavations.
- Check adequate edge protection and access provision onto weir.

Lifting
- Check crane lifting facilities & constraints.
- Check access weight & size restrictions for crane along access route to site.

Interface with public & other site operations
- Check adequate warning signs and fencing in place.

Services
- Check for services.

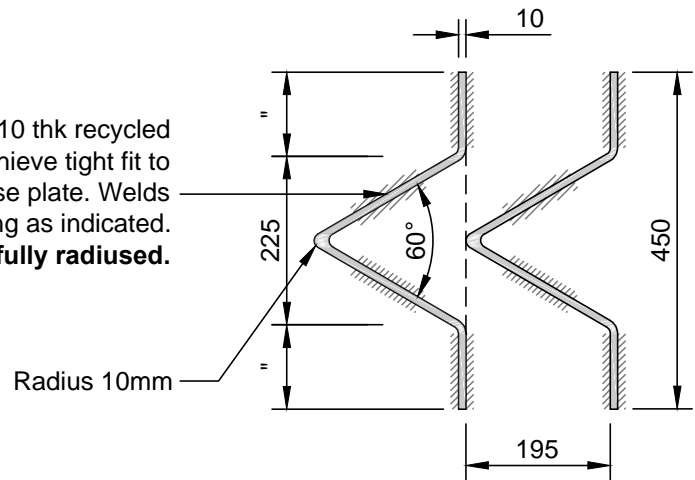
Stability of Excavations & Structures
- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

For information relating to Use, Cleaning and Maintenance see the Health and Safety File

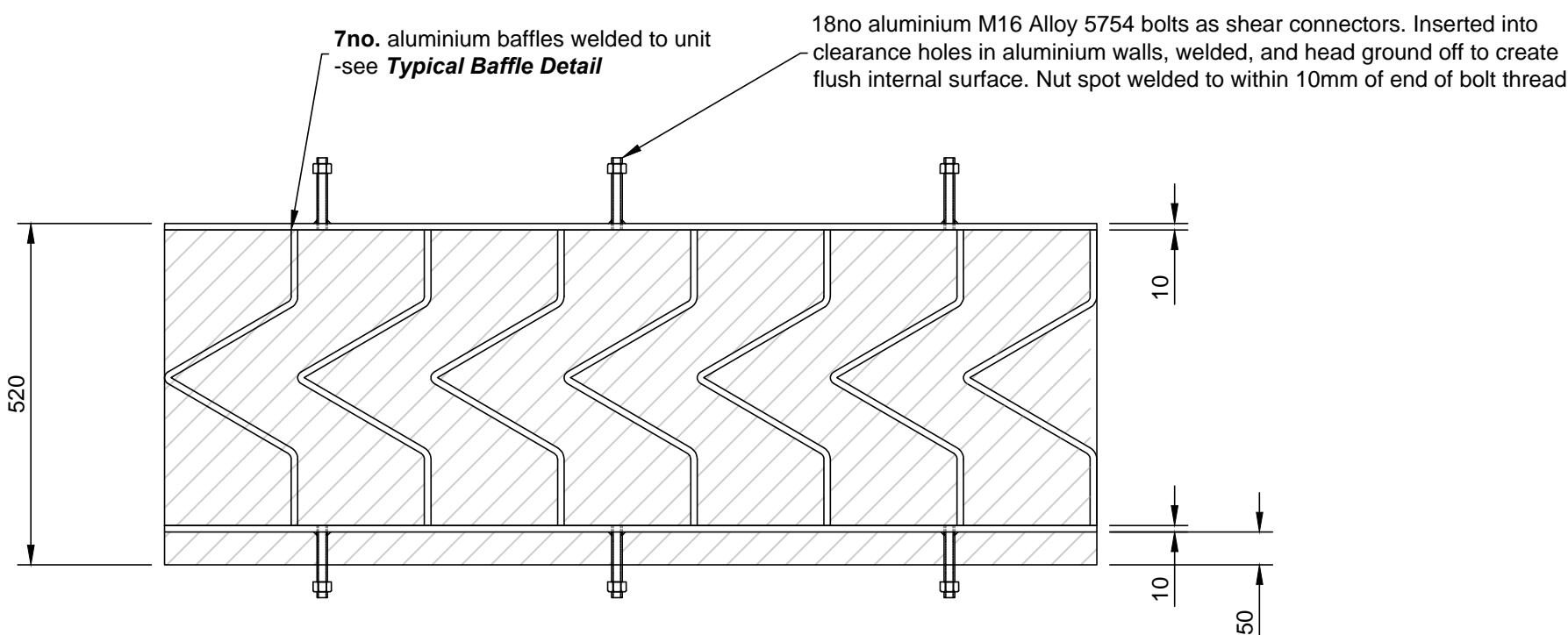
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- NOTES:**
- DIMENSIONS:**
 - Are in millimetres unless otherwise stated
 - Marked thus (°) are approximate
 - All levels are in metres to Site Datum
 - SPECIFICATION:**
 - All works to be carried out in accordance with the Environment Agency Minimum Technical Requirements which shall be the Civil Engineering Specification for the Water Industry (CESWI).
 - REINFORCED & MASS CONCRETE**
 - All concrete to comply with BS 8500-2.
 - Mass concrete and reinforced concrete** of the same mix.
 - Concrete to have a minimum strength class of C35 / 45.
 - Designated Mix REQUIREMENTS:**
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
 - Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4466 or BS4449.
 - Minimum cover to reinforcement C_{min} = 60mm.
 - All exposed edges to have 25mm chamfer, with exception to abutting joints.
 - Exposed formed concrete to have fair worked finish.
 - Exposed uniform concrete to have wood float finish.
 - Nominal 100mm layer of mass concrete blinding for pours.
 - ALUMINIUM:**
 - All structural aluminium alloys to BS8118.
 - Sheet plate grade to be Alloy 5251 H22 Temper, **o.s.a.**
 - All aluminium welds to be 10mm continuous fillet welds unless otherwise indicated.
 - FABRICATION:**
 - Fabricator to prepare fabrication drawings.
 - All structural **material components** & all **fabricated** aluminium structures executed to conform to BS EN 1090-2.
 - Size of connection plates & bolt hole positions to suit fabrication tolerances and checked prior to delivery to site.

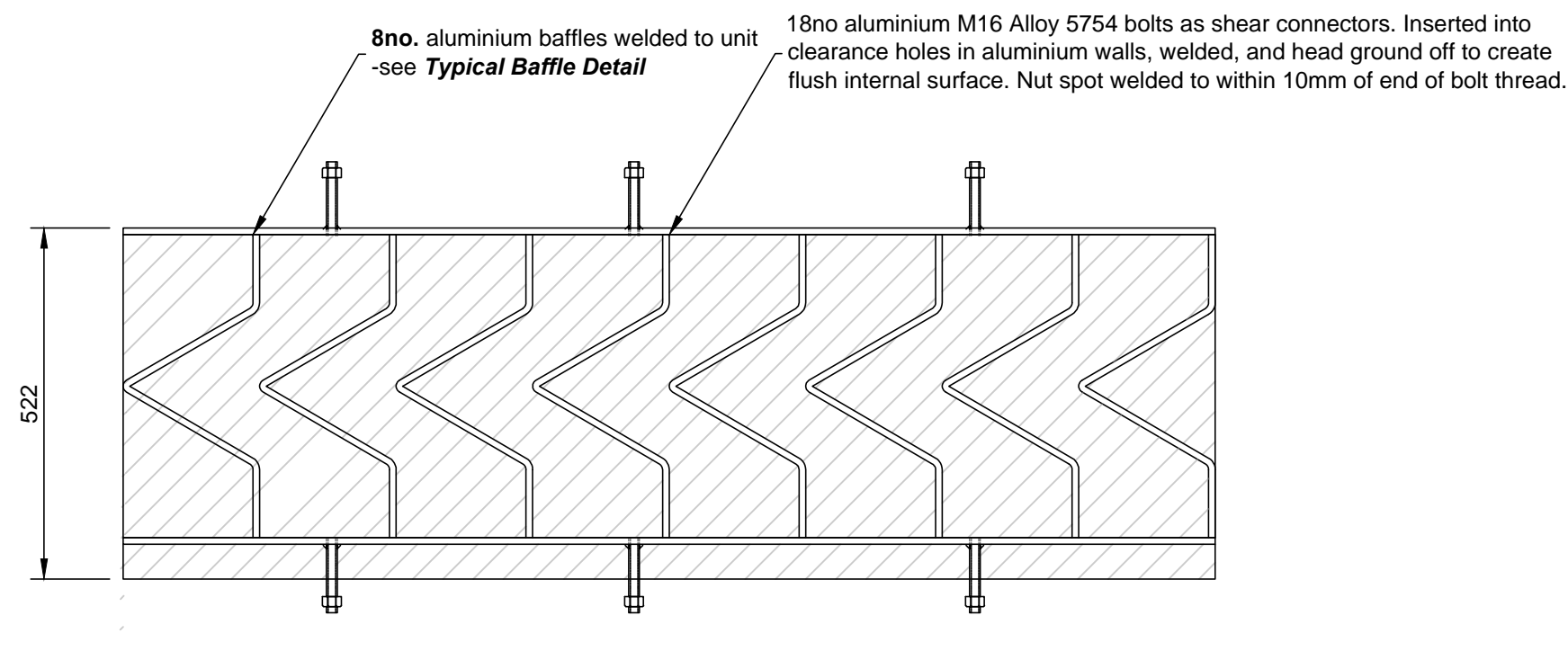
Baffles formed from 100x10 thk recycled aluminium cast to achieve tight fit to 10mm thk aluminium base plate. Welds to be min. 100mm long as indicated. **Top of all baffles to be fully radiused.**



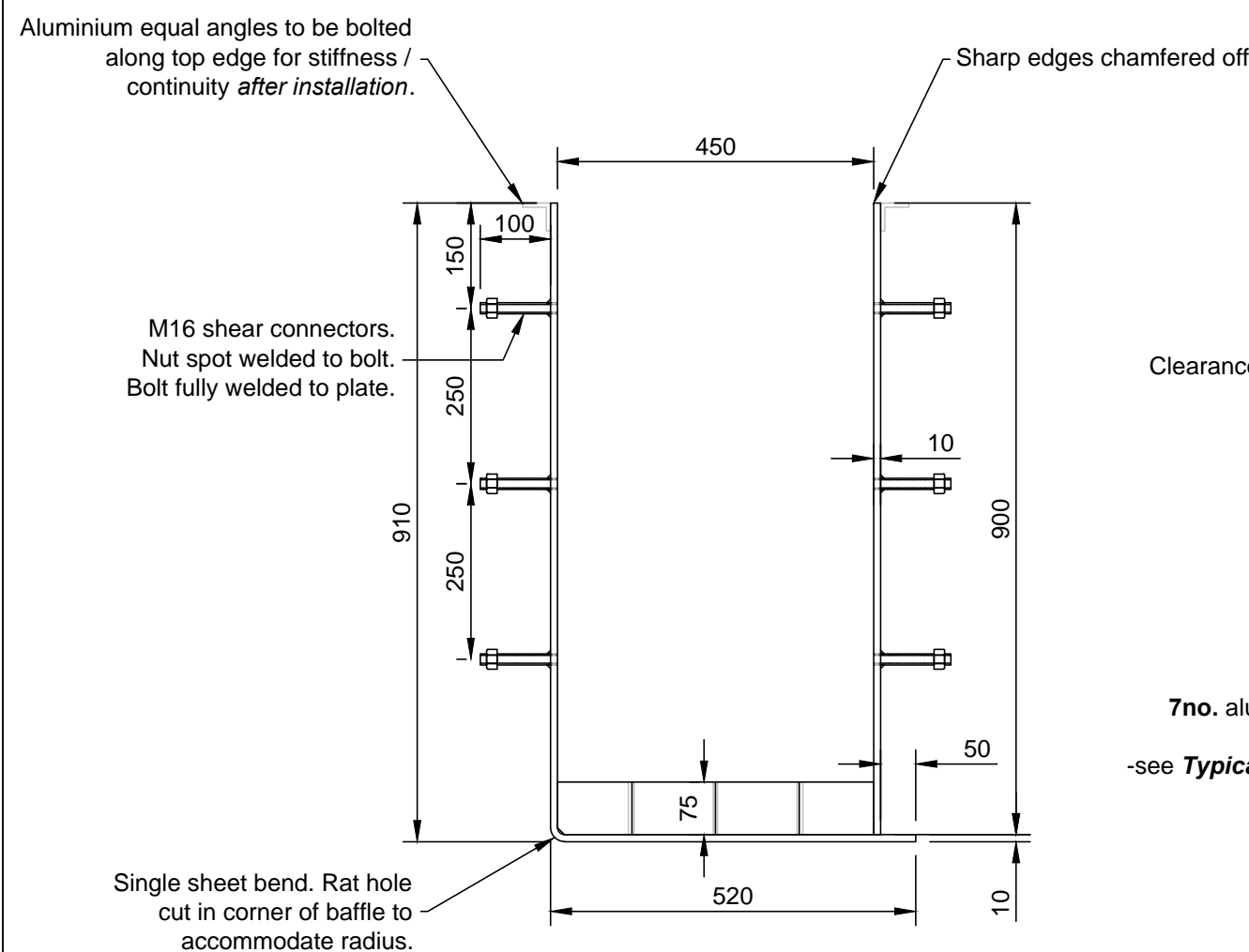
Typical Baffle Detail
-29no required



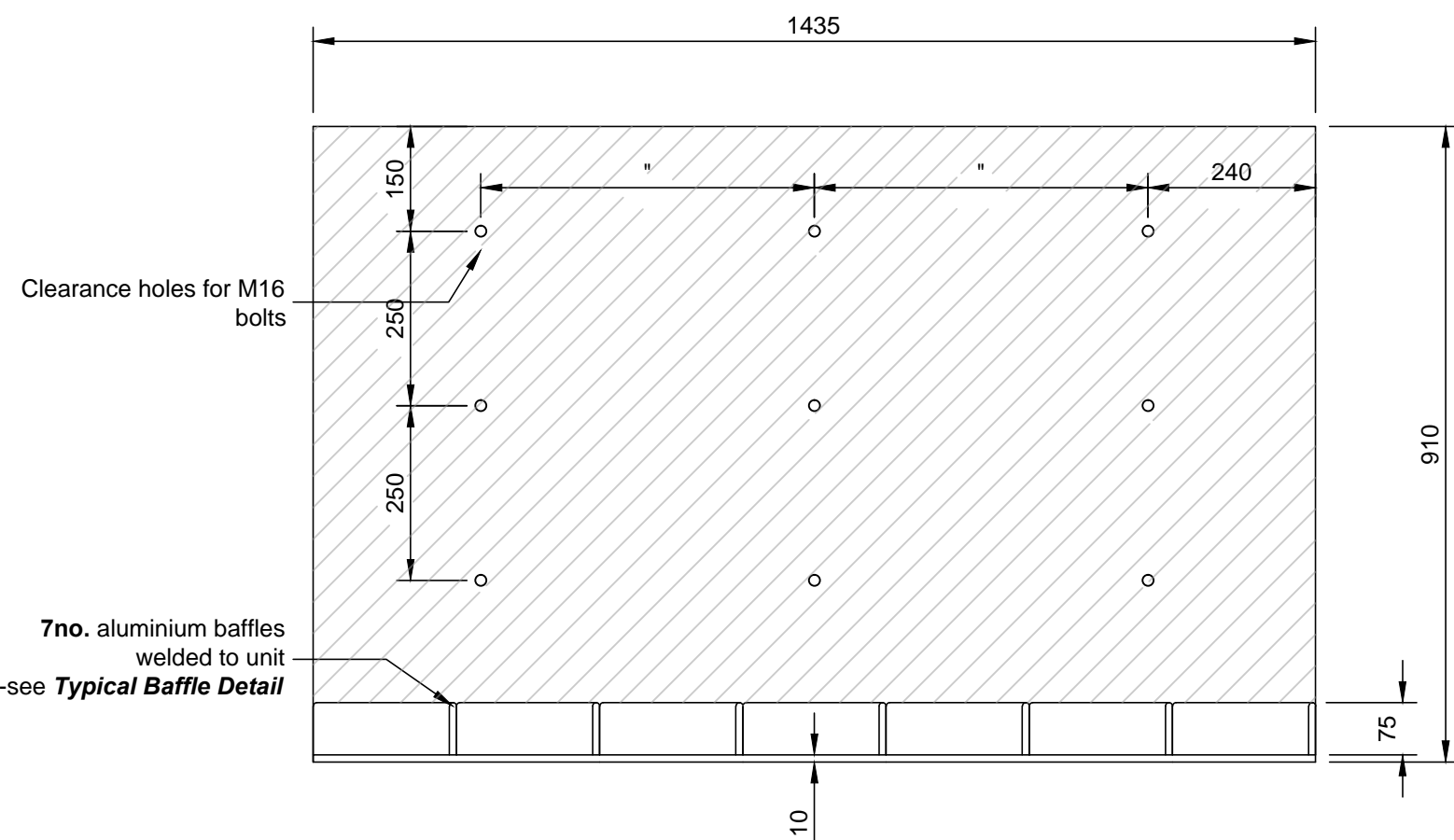
Plan (Unit Type 1)



Plan (Unit Type 1)



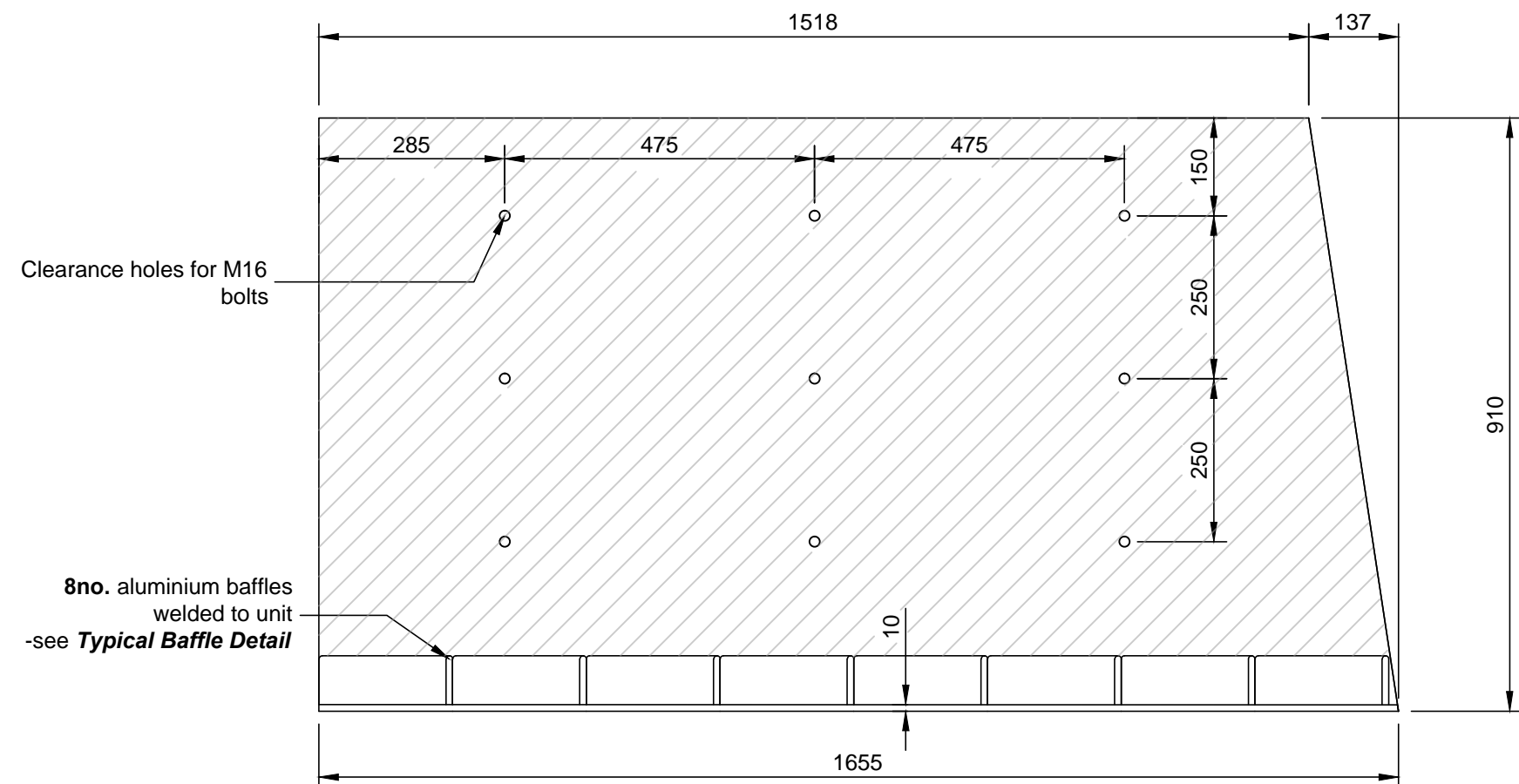
Typical Section (Unit 1 & Unit 2)



Long Section (Unit Type 1)



Caution:
Estimated lift weight= 110kg
Aluminium units to be internally braced during installation and concrete pouring works to maintain form, subject to contractors method of working.



Long Section (Unit Type 1)



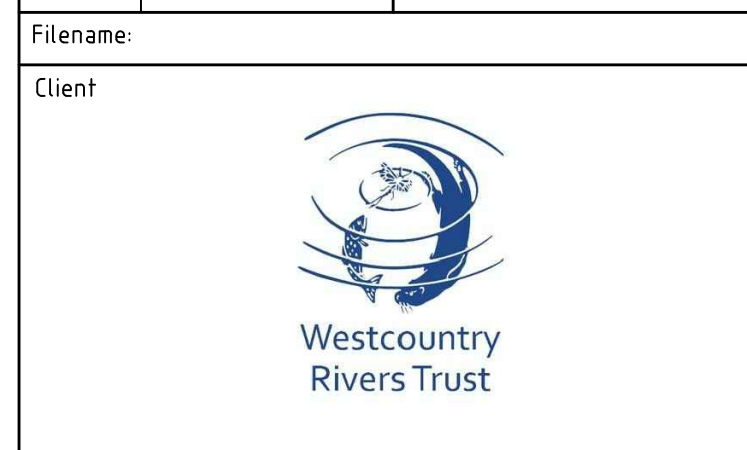
Caution:
Estimated lift weight= 120kg
Aluminium units to be internally braced during installation and concrete pouring works to maintain form, subject to contractors method of working.

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P01	For Information	20 / 06 / 19
Issue	Description	Date

Status	Detailed Design
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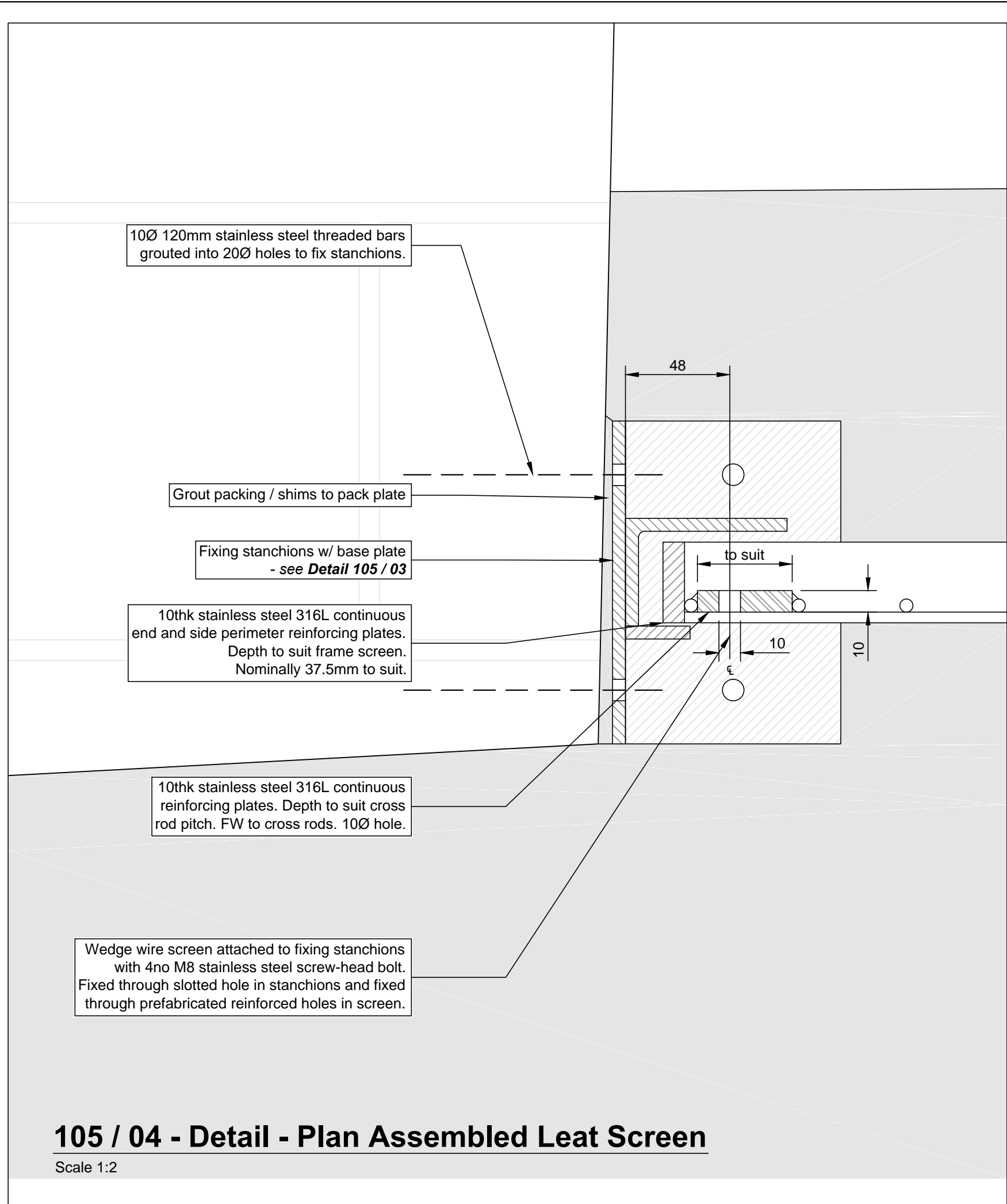
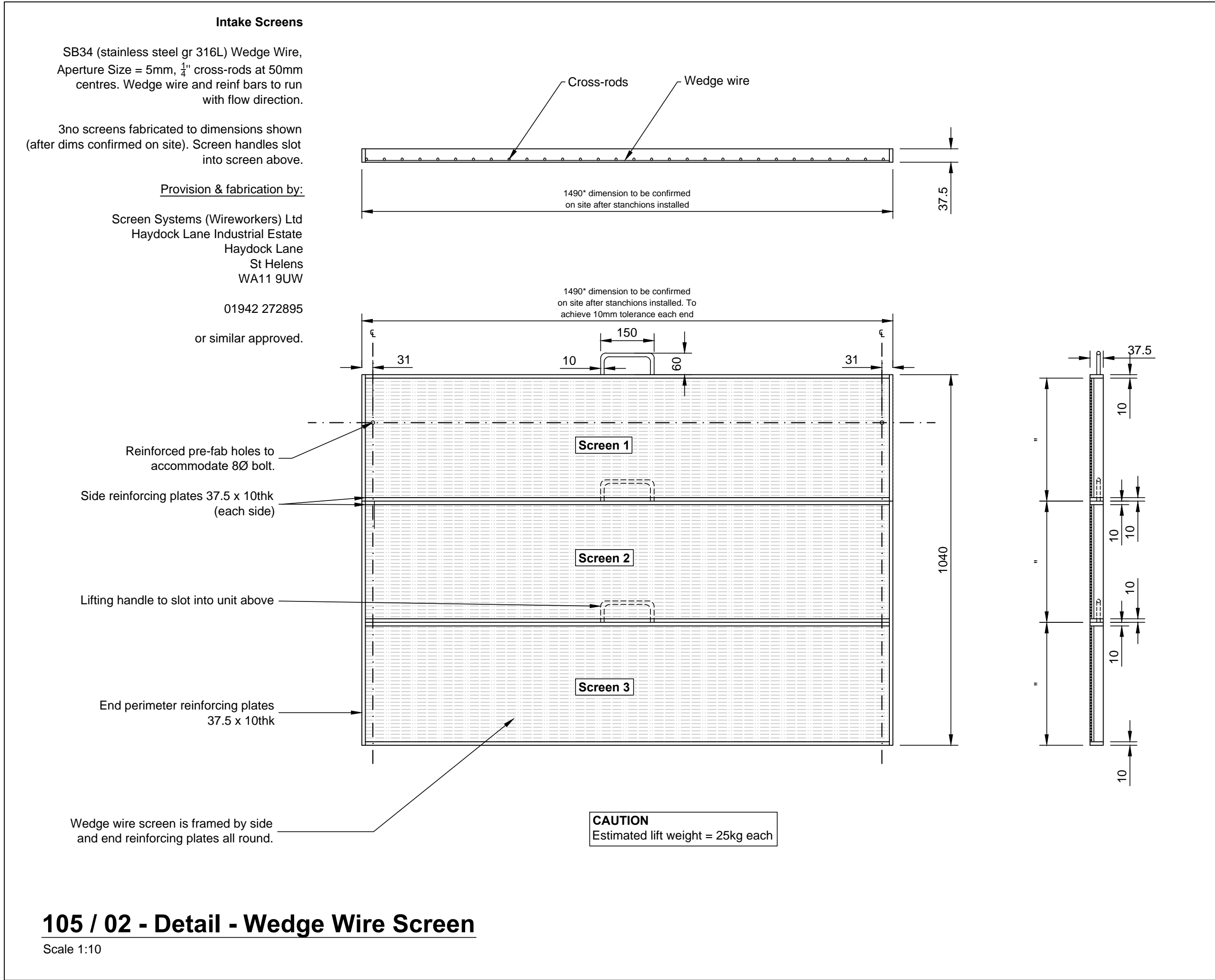
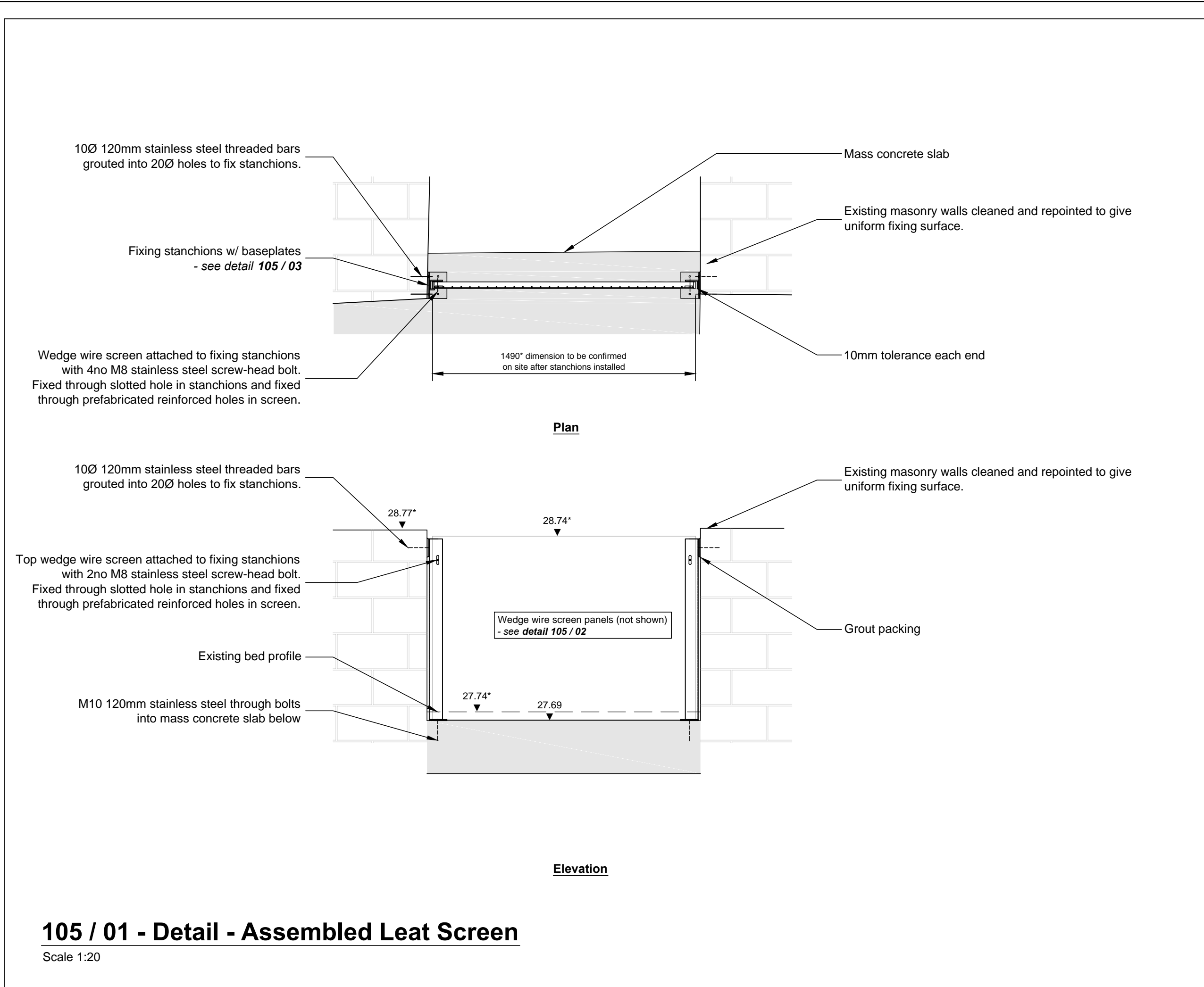
Scales	As shown	Current Issue Signatures
Original Size	A1	Author M.Giblin
Datum	N/A	Checker M.Lakin
Grid	N/A	Approver I.St-R.
Filename:	© Copyright reserved	



PROJECT
WFG Framework
Glynn Weir

TITLE
Aluminium Larinier
Fabricated Elements
and Eel Tiles

Drawing No.	Project No.	Issue
0104	- 02458	- P01



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C3 Risk of falls from height

- Check depth of excavations.
- Check adequate edge protection and access provision onto weir.

C4 Lifting

- Check craneage lifting facilities & constraints.
- Check access weight & size restrictions for craneage along access route to site.

C5 Interface with public & other site operations

- Check adequate warning signs and fencing in place.

C6 Services

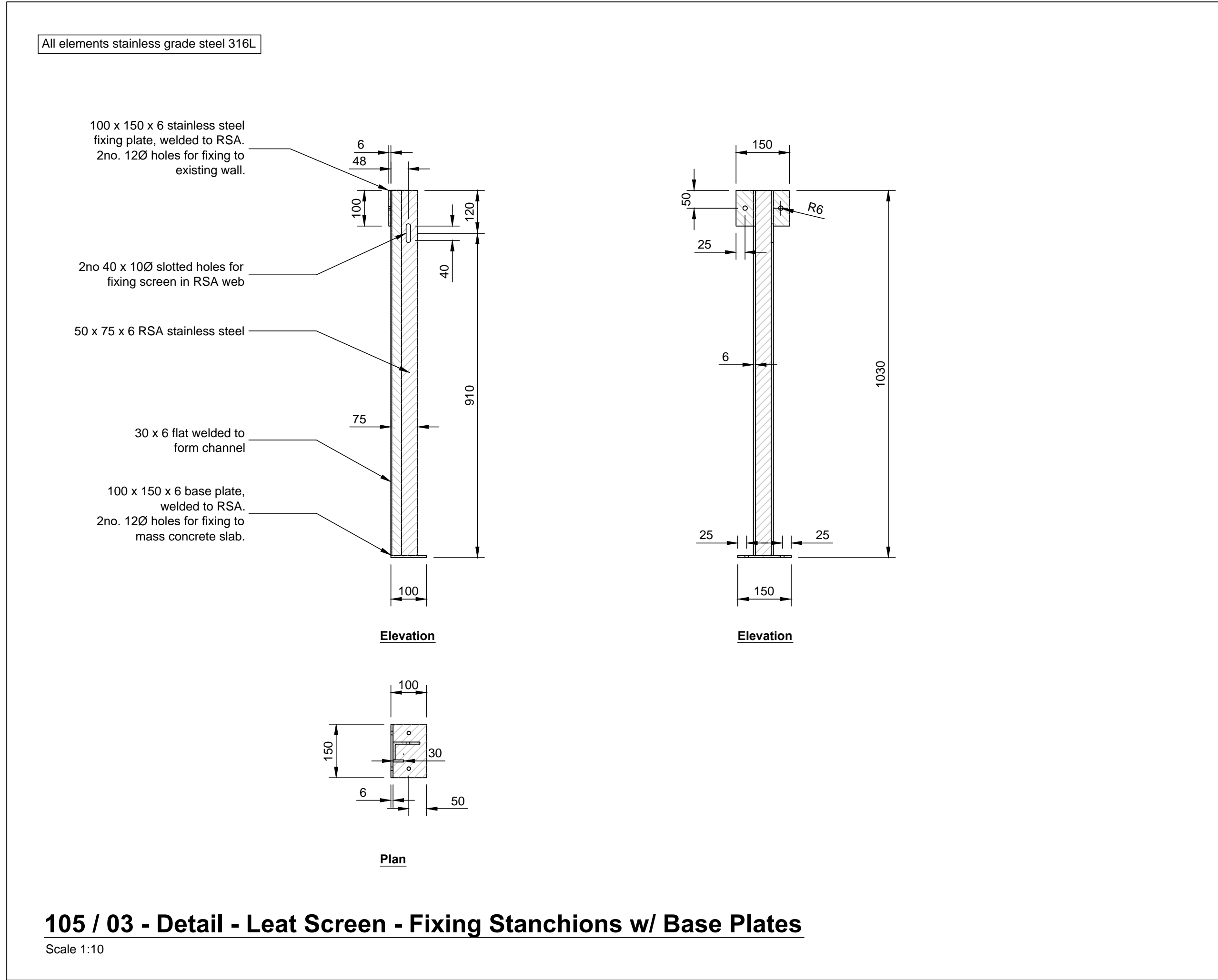
- Check for services.

C7 Stability of Excavations & Structures

- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

For information relating to Use, Cleaning and Maintenance see the Health and Safety File

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NOTES:

1. DIMENSIONS:

- Are in millimetres unless otherwise stated
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- All levels are in metres to Site Datum
- Critical levels set out to crest level. Temporary site datum to be agreed on site.

2. SPECIFICATION:

All works to be carried out in accordance with the Environment Agency Minimum Technical Requirements which shall be the Civil Engineering Specification for the Water Industry (CESWI).

3. ALUMINIUM:

- All structural aluminium alloys to BS8118.
- Sheet plate grade to be Alloy 5251 H22 Temper, o.s.a.
- All aluminium welds to be 10mm continuous fillet welds unless otherwise indicated.

4. FABRICATION:


- Fabricator to prepare fabrication drawings.
- All structural material components & all fabricated aluminium or stainless steel structures executed to conform to BS EN 1090-2.
- Size of connection plates & bolt hole positions to suit fabrication tolerances and checked prior to delivery to site.

5. STAINLESS STEEL:

- All structural stainless steel 316L, o.s.a.
- Wedge wire screen by Screen Systems (Wireworkers) Ltd.

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Datum	N/A	Checker M.Lakin
Grid	N/A	Approver I.St.-R.
Filename:	© Copyright reserved	
Client		
PROJECT	WFG Framework Glynn Weir	
TITLE	Leat Screen Assembly and Fabrication Details	
Drawing No.	Project No.	Issue
0105	- 02458	- P01

