COMHAIRLE NAN EILEAN SIAR

The Town and Country Planning Scotland Act 1997 – Section 36(1)

Town and Country Planning General Development Procedure Order 2013 Regulation 16

Planning Register - Part 1

Application Details

Reference Number	**24/00216/PPD**
Date registered as valid	**11 July 2024**
Description of Development	**Installation of Pipe Bridge**
Address or description oflocation to which the development relates	**Pipe Bridge, Griminish, Benbecula (E: 79165 N: 851737)**
Applicant Name	**Martin Walker**
Applicant Address	**Scottish Water Fairmilehead, 55 Buckstone Terrace, Edinburgh, EX106XH**
Agent name (if applicable)	
Agent address (if applicable)	

The above application summary is accompanied by plans and drawings sufficient to describe the development and where relevant any design statement.

Important Note: on Tuesday 07 November 2023, Comhairle nan Eilean Siar experienced a criminal cyber incident and is working with Police Scotland, the Scottish Government and the National Cyber Security Centre to investigate the matter.

The Online Planning Portal remains unavailable as does our suite of integrated software and hardwaresystems. In order to enable access by the wider public to application documents and consult upon planning applications, interim systems have been put inplace on the temporary website of Comhairle nan Eilean Siar, including a rudimentary facility to display a limited number of documents per application.

Any party wishing to view the application file in full may do so at the offices of Comhairle nan Eilean Siar at Sandwick Road, Stornoway Isle of Lewis, HS1 2BW or Balivanich, Isle of Benbecula. HS7 5LA, ordinarily between 9am and 5pm Monday to Friday (excluding public and local holidays). It is recommended that in advance of visiting an office to view an application that you make an appointment by sending an email to planning@cne-siar.gov.uk

Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. Scale bars are provided for information only.
4. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 1 of 3:	DMA0059370-WN-DRA-04001516
Pipe Bridge - Construction Detail 2 of 3:	DMA0059370-WN-DRA-04001517
Pipe Bridge - Construction Detail 3 of 3:	DMA0059370-WN-DRA-04001515
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412
Pipe Bridge - Proposed Site Plan:	DMA0059370-WN-DRA-04001411

LEGEND:

WATER MAINS

- EXISTING MAIN
- PREVIOUSLY ABANDONED MAIN
- RAW WATER MAINS
- WASHOUT MAIN
- FIRE MAIN
- BOUNDARY LINE
- ABANDON EXISTING MAIN
- OPEN CUT
- SLIPLINE
- PIPE BURST
- DIRECTIONAL DRILL
- SWABBING / CLEANING
- FLUSHING
- EXISTING SERVICE

COLOUR KEY

EXISTING – NO WORK REQUIRED	ABANDON
NEW/REPLACE	REMOVE

WATER MAIN FITTINGS

FIRE HYDRANT	AIR VALVE
WASHOUT HYD.	END CAP
BULK METER	CHANGE COLLAR
SLUICE VALVE	TRIAL HOLE
CLOSED VALVE	L/R PIT
PRV	STOP COCK
REVENUE METER	BOUNDARY BOX
SCOUR VALVE	NRV
PSV	PUMPING STATION
SENSITIVE CUSTOMER	ELECTRICAL SUB STATION
LARGE CUSTOMER	UNABLE TO LOCATE SERVICE
	DMA BACKGROUND

LOCATION PLAN

SCALE 1:50000

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30-May-24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ
TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date: 02-May-24	Date: 30-May-24	Date: 30-May-24	Date: 30-May-24

Scale: 1:1250
Status: FOR INFORMATION

Project Title: RCI BENBECULA DMA (6? AC)

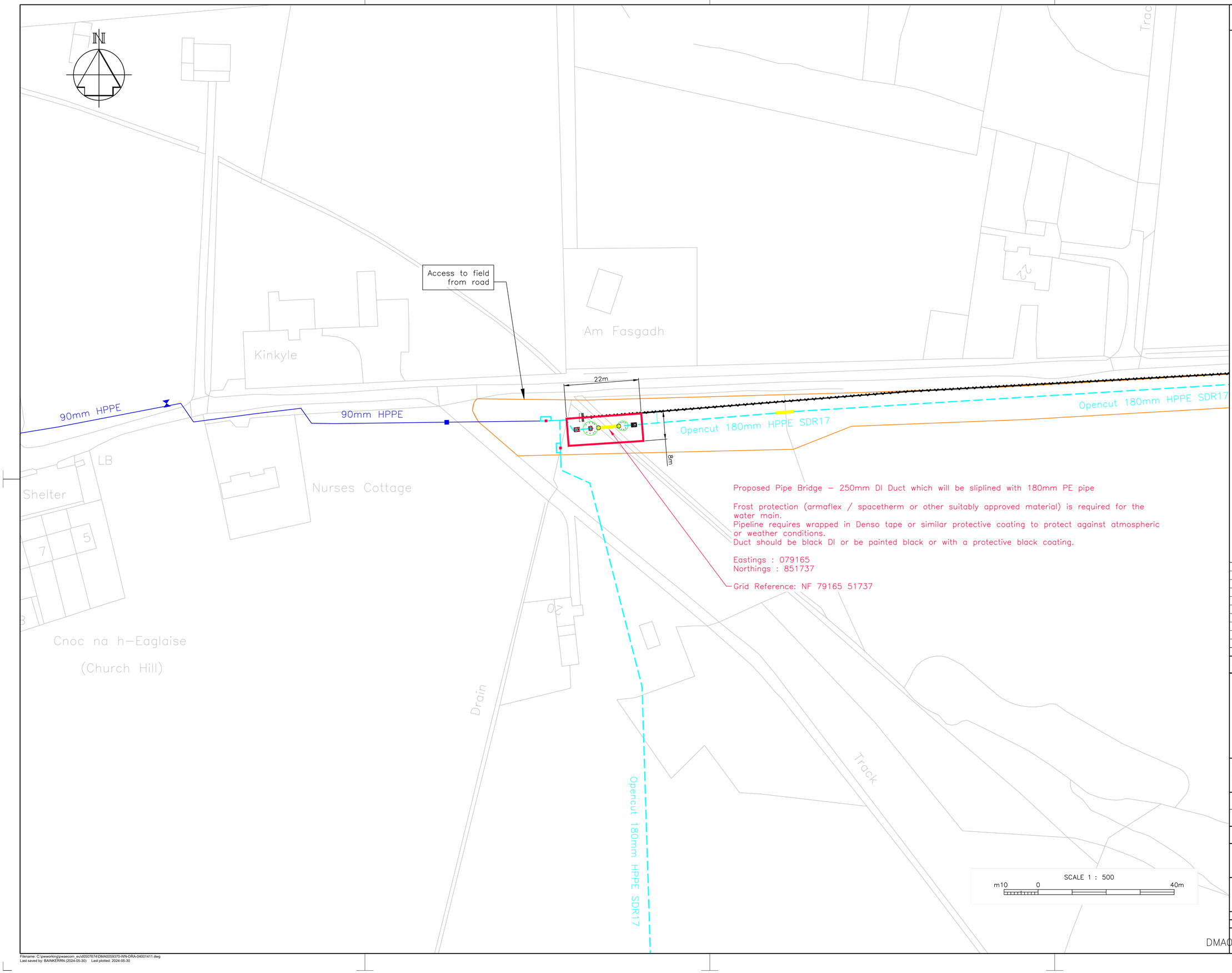
Drawing Title: RCI BENBECULA DMA (6"AC) PIPE BRIDGE EXISTING SITE PLAN

ELLIPSE EQUIPMENT No.

ELLIPSE PLANT No. | AUTOCODE No. 513829

Drawing No.: DMA0059370-WN-DRA-04001413-0A

Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001413.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30



Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. Scale bars are provided for information only.
4. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 1 of 3:	DMA0059370-WN-DRA-04001516
Pipe Bridge - Construction Detail 2 of 3:	DMA0059370-WN-DRA-04001517
Pipe Bridge - Construction Detail 3 of 3:	DMA0059370-WN-DRA-04001515
Pipe Bridge - Existing Site Plan:	DMA0059370-WN-DRA-04001413
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412

LEGEND:

WATER MAINS

- EXISTING MAIN
- PREVIOUSLY ABANDONED MAIN
- RAW WATER MAINS
- WASHOUT MAIN
- FIRE MAIN
- BOUNDARY LINE
- ABANDON EXISTING MAIN
- OPEN CUT
- SLIPLINE
- PIPE BURST
- DIRECTIONAL DRILL
- SWABBING / CLEANING
- FLUSHING
- DUCT
- EXISTING SERVICE

COLOUR KEY

- EXISTING – NO WORK REQUIRED
- NEW/REPLACE
- ABANDON
- REMOVE

WATER MAIN FITTINGS

- FIRE HYDRANT
- WASHOUT HYD.
- BULK METER
- SLUICE VALVE
- CLOSED VALVE
- PRV
- REVENUE METER
- SCOUR VALVE
- PSV
- SENSITIVE CUSTOMER
- LARGE CUSTOMER
- AIR VALVE
- END CAP
- CHANGE COLLAR
- TRIAL HOLE
- L/R PIT
- STOP COCK
- BOUNDARY BOX
- NRV
- PUMPING STATION
- ELECTRICAL SUB STATION
- UNABLE TO LOCATE SERVICE
- DMA BACKGROUND

Legend:

Area subject to planning permission = 177 m²

Proposed working/access area = 5150 m²

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30–May–24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ
TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date	Date	Date	Date
02–May–24	30–May–24	30–May–24	30–May–24

Scale	Status
1:500	FOR INFORMATION

Project Title
RCI BENBECULA DMA
(6? AC)

Drawing Title
RCI BENBECULA DMA (6"AC)
PIPE BRIDGE
PROPOSED SITE PLAN

ELLIPSE EQUIPMENT No.

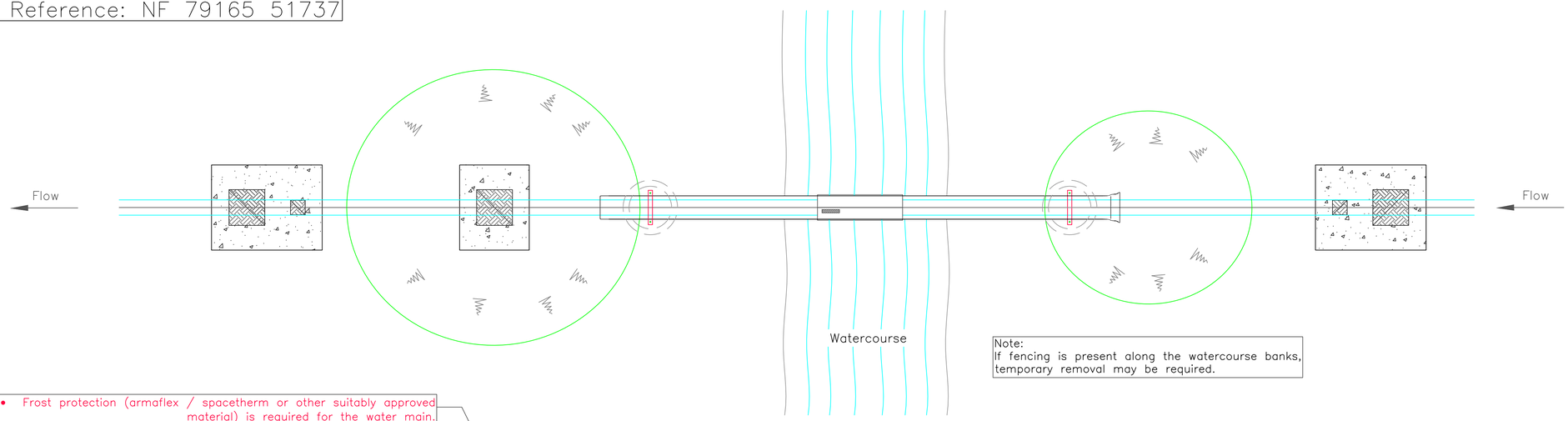
ELLIPSE PLANT No.

AUTOCODE No. 513829

Drawing No.
DMA0059370–WN–DRA–04001411–0A

Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001411.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30

Pipe Bridge
Grid Reference: NF 79165 51737



Note:
If fencing is present along the watercourse banks, temporary removal may be required.

- Frost protection (armaflex / spacetherm or other suitably approved material) is required for the water main.
- Pipeline requires wrapped in Denso tape or similar protective coating to protect against atmospheric or weather conditions.
- Duct should be black DI or be painted black or with a protective black coating.
- Pipe bridge to have a fall to allow pipeline to be drained via gravity.

Only install the WOH/AV in dry land. If the WOH/AV is installed in water logged land, refer to Drawing 5XXXXXXXXX-WN-DRA-04001501

Area to be bunded only if nominal depth for main laying cannot be achieved.

900mm Cover to Pipe

Min 600mm

2.5 1

2.5 1

End of duct needs to be sealed to protect the insulation.

It is recommended that the saddle angle of the support be between 90 and 120 degrees.

Little or no benefit is gained by increasing the saddle angle more than 120 degrees, while stresses tend to increase rapidly with angles less than 90 degree

Area to be bunded around bend to provide minimum 600mm of cover

New. GL MASL

Existing GL MASL

Only install the WOH in dry land. If the WOH is installed in water logged land, refer to Drawing 5XXXXXXXXX-WN-DRA-04001501

Area to be bunded only if nominal depth for main laying cannot be achieved.

900mm Cover to Pipe

Min 150mm

Watercourse Max level indicative only

750mm

500mm

2700mm
To be confirmed by the Construction team

Min 300mm

750mm

500mm

Valves must be located far enough away from the void crossing, so that any maintenance on the pipe supports or the valves will not compromise the other or create a H&S risk

End of duct needs to be sealed to protect the insulation.

Concrete manhole base detail should be constructed below the bed level of the water course to prevent undermining due to water flow erosion, unless rock is encountered.

Proposed Pipe Bridge Section Details

PIPE BRIDGE FITTINGS SCHEDULE		
ITEM	FITTING	QUANTITY
01	180mm HPPE SDR17 Pipe	As Required
02	180x150mm Stub-flange Pupped with Backing Ring	6
03	150x80mm DI A/F Tee / 80mm Risers / WOH	2
04	WOH Chamber	2
05	150mm DI Flanged Pipe - 300mm Length	2
06	150mmØ SV	2
07	SV Chamber	2
08	150x80mm DI A/F Tee / 80mm Risers / SAV	2
09	AV Chamber	1
10	180mm HPPE 45° Bend PE	4
11	250mm DI Duct which will be sliplined with 180mm PE pipe wrapped with 10mm spacetherm frost protection - Length 6m	As Required
12	500mm Diameter Twinwall Pipe (1400mm long) infilled with mass concrete (Grade ST4 or GEN3 Concrete or C35 concrete)	2
13	Galvanised steel strap with rubber strip between pipework and strap.- Width and Diameter must be suitable for the size of the duct	2
14	Witch Hat anti climb device - Length 1m	1

SCALE 1 : 30

m1 0 2m

Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Do not scale from drawing. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. The preferred conceptual design of a self-supporting pipe crossing consists of a single pipe span which is void of fittings, particularly bends and minimizes pipe joint deflections, which create thrust forces. There is a preference to cross at right angles to the void to minimise the crossing distance.
4. The pipe should be able to act independently of the support structures by using either restrained mechanical joint DI or butt welded pipe on a roller system with a pipe expansion joint or similar.
5. The pipeline and the pipe support system materials should match the life expectancy stated in Requirements app clause 1885.
6. The design life of a pipeline will be by virtue of the materials and construction methods used.
7. If site specific configurations, other scenarios prevent the implementation of the foregoing, liaise with detailed design so that alternatives can be considered and designs updated for approval.
8. If proposed chambers are found to be in areas of flooding, these should be protected to avoid risk of sucking in rain / ground water by means of bunding area and raising chambers or by relocation. Liaise with design prior to any alterations.
9. All steel work to be minimum Grade S275.
10. All steel work to be hot dipped galvanised following fabrication to be EN ISO 1461.
11. Buried bolts and steel strap to be wrapped in Denso Tape or equivalent.
12. Do not disturb the existing embankments. Install shuttering if required.
13. Access requirements for future repair maintenace, cleaning and inspection should be considered in line with MA003 and CDM.
14. For guidance on river bank reinstatement refer to CIRIA SUDS manual 2015 chapter 29.
15. For pipes crossing rivers you should provide a minimum 1.25m vertical clearance between the bottom of the pipe or pipe flanges and the top water level during peak flow to ensure that the pipe is not struck by passing debris. Any pipe supports situated within the river should be designed to withstand impact loading from upstream debris during high flow conditions.
16. All the ground levels and heights are indicative and should be confirmed by the Construction Team.
17. Fittings to be DI, flanged and mechanically bolted. Anchor gaskets may be required. Electrofusion / butt fusion only to be used if site conditions are suitable for this practice and agreements obtained from design & local ops.
18. For SW Standard Details regarding PE Water Main with DI Fittings and Marker Posts refer to drawing: SSP-SP-DRA-07000720
19. For SW Standard Details regarding details Air valves and chambers refer to drawings: SSP-SP-DRA-07000721
20. For SW Standard Details regarding Flexible Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000751
21. For SW Standard Details regarding For SW Standard Details regarding Rigid Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000752
22. All PE to be PE 100 10 bar rated unless otherwise specified.
23. All stub flanges to be pupped type.
24. Test Pressure to be 1.5 times rated pressure for up to 10 Bar systems and 1.5 times maximum working pressure or 5 Bar + working pressure (whichever is the least) for 12 to 16 Bar systems.
25. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 2 of 3:	DMA0059370-WN-DRA-04001517
Pipe Bridge - Construction Detail 3 of 3:	DMA0059370-WN-DRA-04001515
Pipe Bridge - Existing Site Plan:	DMA0059370-WN-DRA-04001413
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412
Pipe Bridge - Proposed Site Plan:	DMA0059370-WN-DRA-04001411

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30-May-24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ

TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date	Date	Date	Date
08-May-24	30-May-24	30-May-24	30-May-24

Scale: AS SHOWN
Status: FOR INFORMATION

Project Title: RCI BENBECULA DMA (6" AC)

Drawing Title: RCI BENBECULA DMA (6" AC) PIPE BRIDGE CONSTRUCTION DETAILS - 1 OF 3

ELLIPSE EQUIPMENT No.

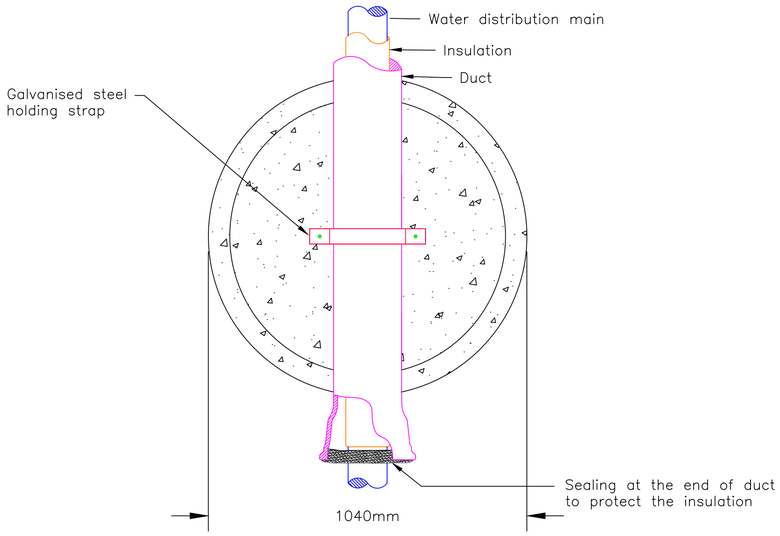
ELLIPSE PLANT No. | AUTOCODE No. 513829

Drawing No.
DMA0059370-WN-DRA-04001516-0A

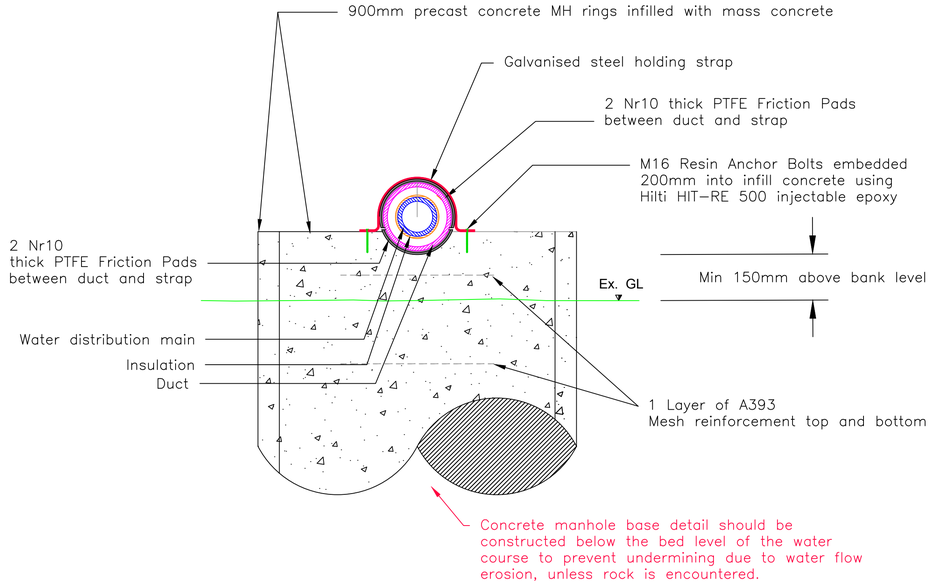
Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001516.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30

Pipe Bridge

Grid Reference: NF 79165 51737

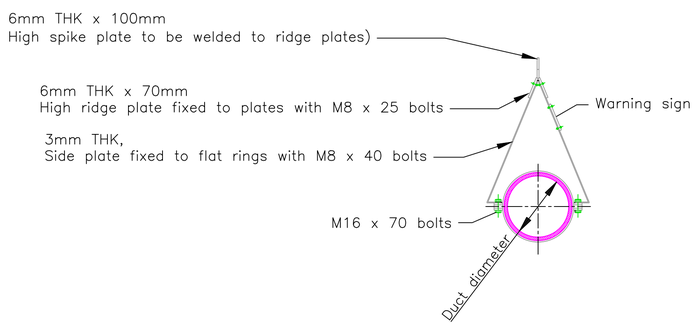


Plan View

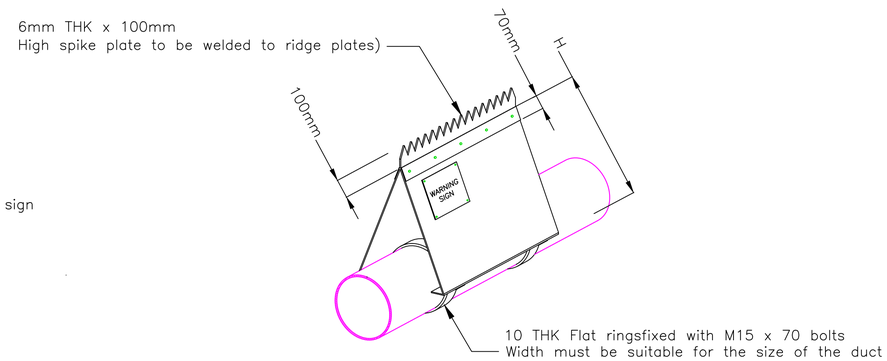


Cross Section

Duct Support Details



End View



Isometric View

Witch Hat Anti Climb Device Details (for ducts below 350mm DIA)

SCALE 1 : 10

mm100 0 1m

Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Do not scale from drawing. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. The preferred conceptual design of a self-supporting pipe crossing consists of a single pipe span which is void of fittings, particularly bends and minimizes pipe joint deflections, which create thrust forces. There is a preference to cross at right angles to the void to minimise the crossing distance.
4. The pipe should be able to act independently of the support structures by using either restrained mechanical joint DI or butt welded pipe on a roller system with a pipe expansion joint or similar.
5. The pipeline and the pipe support system materials should match the life expectancy stated in Requirements app clause 1885.
6. The design life of a pipeline will be by virtue of the materials and construction methods used.
7. If site specific configurations, other scenarios prevent the implementation of the foregoing, liaise with detailed design so that alternatives can be considered and designs updated for approval.
8. If proposed chambers are found to be in areas of flooding, these should be protected to avoid risk of sucking in rain / ground water by means of bunding area and raising chambers or by relocation. Liaise with design prior to any alterations.
9. All steel work to be minimum Grade S275.
10. All steel work to be hot dipped galvanised following fabrication to be EN ISO 1461.
11. Buried bolts and steel strap to be wrapped in Denso Tape or equivalent.
12. Do not disturb the existing embankments. Install shuttering if required.
13. Access requirements for future repair maintenace, cleaning and inspection should be considered in line with MA003 and CDM.
14. For guidance on river bank reinstatement refer to CIRIA SUDS manual 2015 chapter 29.
15. For pipes crossing rivers you should provide a minimum 1.25m vertical clearance between the bottom of the pipe or pipe flanges and the top water level during peak flow to ensure that the pipe is not struck by passing debris. Any pipe supports situated within the river should be designed to withstand impact loading from upstream debris during high flow conditions.
16. All the ground levels and heights are indicative and should be confirmed by the Construction Team.
17. Fittings to be DI, flanged and mechanically bolted. Anchor gaskets may be required. Electrofusion / butt fusion only to be used if site conditions are suitable for this practice and agreements obtained from design & local ops.
18. For SW Standard Details regarding PE Water Main with DI Fittings and Marker Posts refer to drawing: SSP-SP-DRA-07000720
19. For SW Standard Details regarding details Air valves and chambers refer to drawings: SSP-SP-DRA-07000721
20. For SW Standard Details regarding Flexible Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000751
21. For SW Standard Details regarding For SW Standard Details regarding Rigid Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000752
22. All PE to be PE 100 10 bar rated unless otherwise specified.
23. All stub flanges to be pupped type.
24. Test Pressure to be 1.5 times rated pressure for up to 10 Bar systems and 1.5 times maximum working pressure or 5 Bar + working pressure (whichever is the least) for 12 to 16 Bar systems.
25. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 1 of 3:	DMA0059370-WN-DRA-04001516
Pipe Bridge - Construction Detail 3 of 3:	DMA0059370-WN-DRA-04001515
Pipe Bridge - Existing Site Plan:	DMA0059370-WN-DRA-04001413
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412
Pipe Bridge - Proposed Site Plan:	DMA0059370-WN-DRA-04001411

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30-May-24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ
TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date	Date	Date	Date
07-May-24	30-May-24	30-May-24	30-May-24

Scale: 1:10

Status: FOR INFORMATION

Project Title: RCI BENBECULA DMA (6" AC)

Drawing Title: RCI BENBECULA DMA (6"AC) PIPE BRIDGES CONSTRUCTION DETAILS - 2 OF 3

ELLIPSE EQUIPMENT No.

ELLIPSE PLANT No. AUTOCODE No. 513829

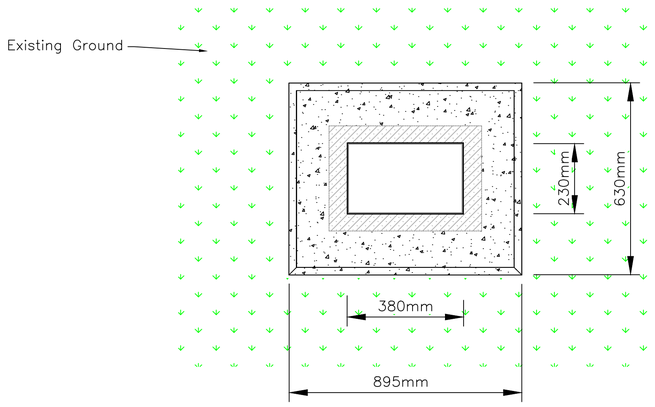
Drawing No. DMA0059370-WN-DRA-04001517-0A

Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001517.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30

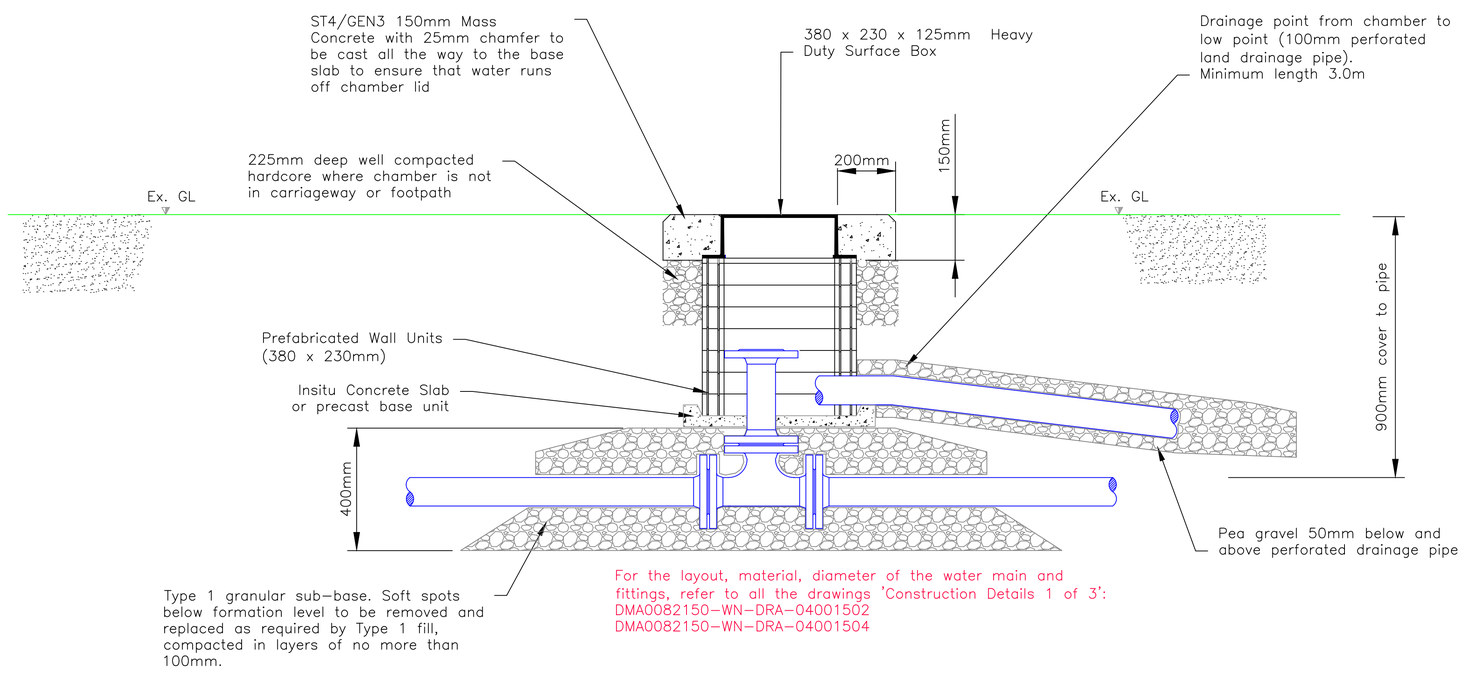
Pipe Bridge

Grid Reference: NF 79165 51737

If the WOH/AV is installed in water logged land, refer to Drawing 5XXXXXXXXX-WN-DRA-04001501



Plan View



For the layout, material, diameter of the water main and fittings, refer to all the drawings 'Construction Details 1 of 3':
DMA0082150-WN-DRA-04001502
DMA0082150-WN-DRA-04001504

Cross Section

Details of additional drainage considerations for Air Valve / Fire Hydrant installations where chambers are at risk of flooding.
SW standard specification drawings should be used under normal ground conditions

SCALE 1 : 10

mm 100 0 1m

Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Do not scale from drawing. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. The preferred conceptual design of a self-supporting pipe crossing consists of a single pipe span which is void of fittings, particularly bends and minimizes pipe joint deflections, which create thrust forces. There is a preference to cross at right angles to the void to minimise the crossing distance.
4. The pipe should be able to act independently of the support structures by using either restrained mechanical joint DI or butt welded pipe on a roller system with a pipe expansion joint or similar.
5. The pipeline and the pipe support system materials should match the life expectancy stated in Requirements app clause 1885.
6. The design life of a pipeline will be by virtue of the materials and construction methods used.
7. If site specific configurations, other scenarios prevent the implementation of the foregoing, liaise with detailed design so that alternatives can be considered and designs updated for approval.
8. If proposed chambers are found to be in areas of flooding, these should be protected to avoid risk of sucking in rain / ground water by means of bunding area and raising chambers or by relocation. Liaise with design prior to any alterations.
9. All steel work to be minimum Grade S275.
10. All steel work to be hot dipped galvanised following fabrication to be EN ISO 1461.
11. Buried bolts and steel strap to be wrapped in Denso Tape or equivalent.
12. Do not disturb the existing embankments. Install shuttering if required.
13. Access requirements for future repair maintenace, cleaning and inspection should be considered in line with MA003 and CDM.
14. For guidance on river bank reinstatement refer to CIRIA SUDS manual 2015 chapter 29.
15. For pipes crossing rivers you should provide a minimum 1.25m vertical clearance between the bottom of the pipe or pipe flanges and the top water level during peak flow to ensure that the pipe is not struck by passing debris. Any pipe supports situated within the river should be designed to withstand impact loading from upstream debris during high flow conditions.
16. All the ground levels and heights are indicative and should be confirmed by the Construction Team.
17. Fittings to be DI, flanged and mechanically bolted. Anchor gaskets may be required. Electrofusion / butt fusion only to be used if site conditions are suitable for this practice and agreements obtained from design & local ops.
18. For SW Standard Details regarding PE Water Main with DI Fittings and Marker Posts refer to drawing: SSP-SP-DRA-07000720
19. For SW Standard Details regarding details Air valves and chambers refer to drawings: SSP-SP-DRA-07000721
20. For SW Standard Details regarding Flexible Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000751
21. For SW Standard Details regarding For SW Standard Details regarding Rigid Pipe Bedding Details refer to drawing: SSP-SP-DRA-07000752
22. All PE to be PE 100 10 bar rated unless otherwise specified.
23. All stub flanges to be pupped type.
24. Test Pressure to be 1.5 times rated pressure for up to 10 Bar systems and 1.5 times maximum working pressure or 5 Bar + working pressure (whichever is the least) for 12 to 16 Bar systems.
25. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 1 of 3:	DMA0059370-WN-DRA-04001516
Pipe Bridge - Construction Detail 2 of 3:	DMA0059370-WN-DRA-04001517
Pipe Bridge - Existing Site Plan:	DMA0059370-WN-DRA-04001413
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412
Pipe Bridge - Proposed Site Plan:	DMA0059370-WN-DRA-04001411

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30-May-24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ
TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date	Date	Date	Date
07-May-24	30-May-24	30-May-24	30-May-24

Scale: 1:10

Status: FOR INFORMATION

Project Title: RCI BENBECULA DMA (6" AC)

Drawing Title: RCI BENBECULA DMA (6" AC) PIPE BRIDGES CONSTRUCTION DETAILS - 3 OF 3

ELLIPSE EQUIPMENT No.

ELLIPSE PLANT No. AUTOCODE No. 513829

Drawing No.: DMA0059370-WN-DRA-04001515-0A

Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001515.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30

Original Size A1

Notes:

1. All dimensions are in metres unless noted otherwise.
2. All levels are in metres and reduced to Ordnance Datum unless noted otherwise.
3. Work to figured dimensions only. Any discrepancies are to be referred to the designer before work is put to hand. Scale bars are provided for information only.
4. All drawings to be read in conjunction with all other relevant design drawings, documents and specifications:

References:

Pipe Bridge - Construction Detail 1 of 3:	DMA0059370-WN-DRA-04001516
Pipe Bridge - Construction Detail 2 of 3:	DMA0059370-WN-DRA-04001517
Pipe Bridge - Construction Detail 3 of 3:	DMA0059370-WN-DRA-04001515
Pipe Bridge - Proposed Location Plan:	DMA0059370-WN-DRA-04001412
Pipe Bridge - Proposed Site Plan:	DMA0059370-WN-DRA-04001411

LEGEND:

WATER MAINS

- EXISTING MAIN
- PREVIOUSLY ABANDONED MAIN
- RAW WATER MAINS
- WASHOUT MAIN
- FIRE MAIN
- BOUNDARY LINE
- ABANDON EXISTING MAIN
- OPEN CUT
- SLIPLINE
- PIPE BURST
- DIRECTIONAL DRILL
- SWABBING / CLEANING
- FLUSHING
- EXISTING SERVICE

COLOUR KEY

EXISTING – NO WORK REQUIRED	ABANDON
NEW/REPLACE	REMOVE

WATER MAIN FITTINGS

FIRE HYDRANT	AIR VALVE
WASHOUT HYD.	END CAP
BULK METER	CHANGE COLLAR
SLUICE VALVE	TRIAL HOLE
CLOSED VALVE	L/R PIT
PRV	STOP COCK
REVENUE METER	BOUNDARY BOX
SCOUR VALVE	NRV
PSV	PUMPING STATION
SENSITIVE CUSTOMER	ELECTRICAL SUB STATION
LARGE CUSTOMER	UNABLE TO LOCATE SERVICE
	DMA BACKGROUND

LOCATION PLAN

SCALE 1:50000

Rev	Description	Drawn	Chk'd	App'd.	Date
0A	For Information	NBK	SMG	SJG	30-May-24

Scottish Water
Trusted to serve Scotland

SCOTTISH WATER
CASTLE HOUSE
6 CASTLE HOUSE
CARNEGIE CAMPUS
DUNFERMLINE
FIFE KY11 8GG

TEL: 01383 848200
FAX: 01383 848371

CALEDONIA WATER ALLIANCE
1st FLOOR, BUCHANAN TOWER
BUCHANAN BUSINESS PARK
CUMBERNAULD ROAD, STEPPS
GLASGOW G33 6HZ
TEL: 0141 212 6610

Originated By	Drawn By	Checked By	Approved By
NBK	NBK	SMG	SJG
Date: 02-May-24	Date: 30-May-24	Date: 30-May-24	Date: 30-May-24

Scale: 1:1250
Status: FOR INFORMATION

Project Title: RCI BENBECULA DMA (6? AC)

Drawing Title: RCI BENBECULA DMA (6"AC) PIPE BRIDGE EXISTING SITE PLAN

ELLIPSE EQUIPMENT No.

ELLIPSE PLANT No. | AUTOCODE No. 513829

Drawing No.: DMA0059370-WN-DRA-04001413-0A

Filename: C:\pwworking\pwaecom_eu\d0507674\DMA0059370-WN-DRA-04001413.dwg
Last saved by: BAINKERRN (2024-05-30) Last plotted: 2024-05-30