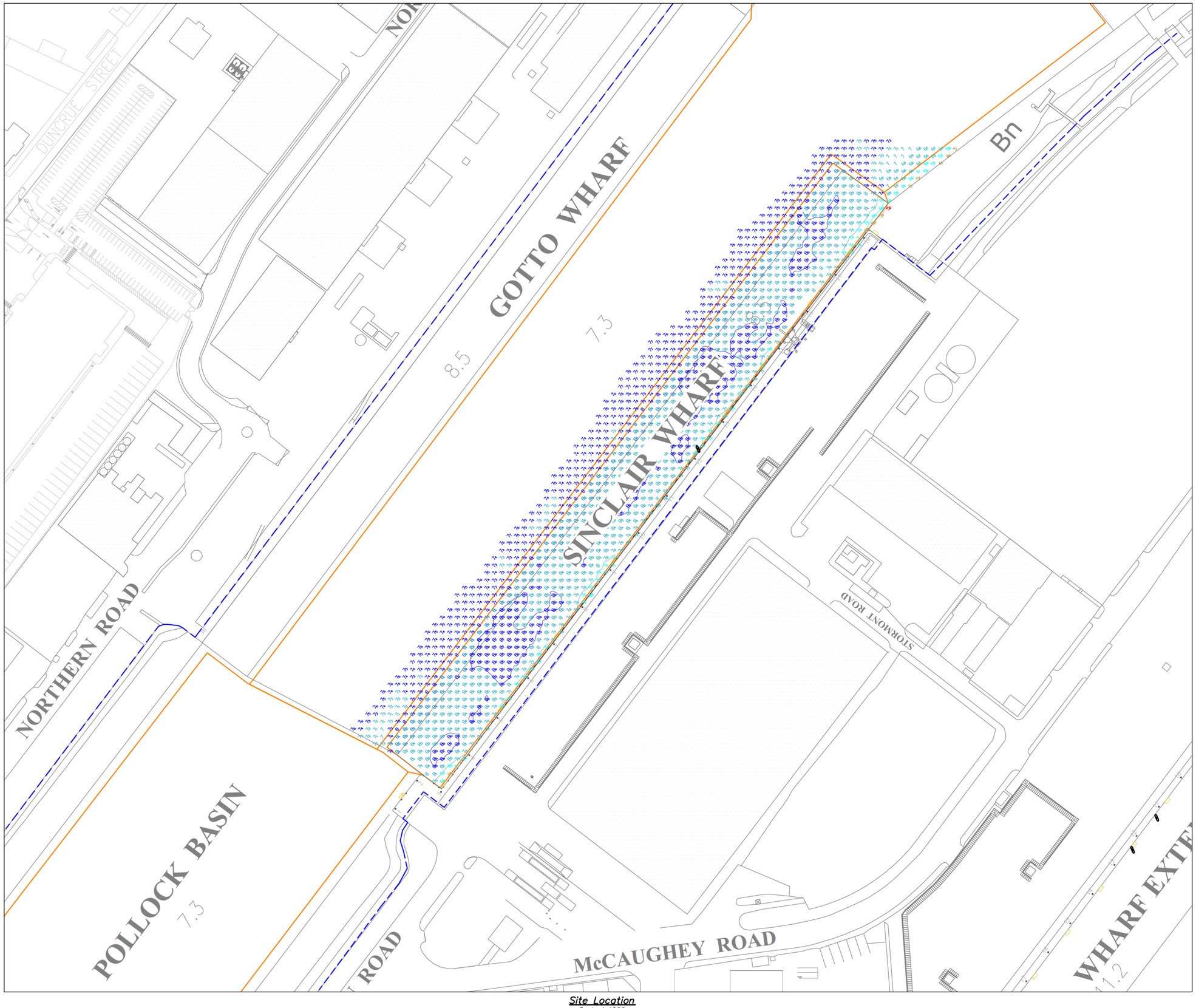
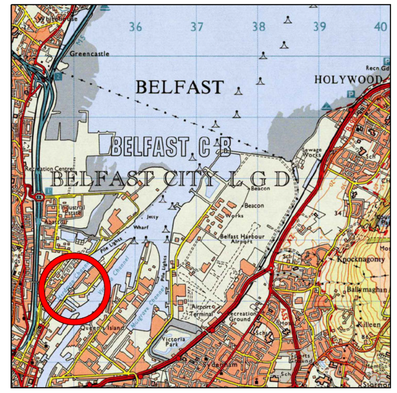
Rev.	Date	By	Check	Details	Appr.
P01	19/08/26			First Issue	



Site Location
Scale 1:1000



Site Location
Scale 1:50,000

Legend

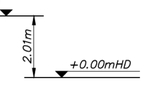
MHWS =3.5mHD

General Notes

1. All levels in metres to Harbour Datum (HD).
2. All dimensions in mm unless noted otherwise.
3. Harbour datum at Belfast Harbour is 2.01m below Ordnance Datum (OD).
4. Bathymetric Survey shown on drawing undertaken by Clydeside Surveys Ltd in December 2024. Drawing No. CSL–A0–1250–02_2024

Tide Levels CD:

HAT	= +3.90mHD
MHWS	= +3.50mHD
MLWS	= +0.40mHD
LAT	= +0.00mHD



PRELIMINARY DRAWING

Project Title:

SINCLAIR WHARF
STRENGTHENING WORKS

Drawing Title:

EXISTING SITE LOCATION PLAN

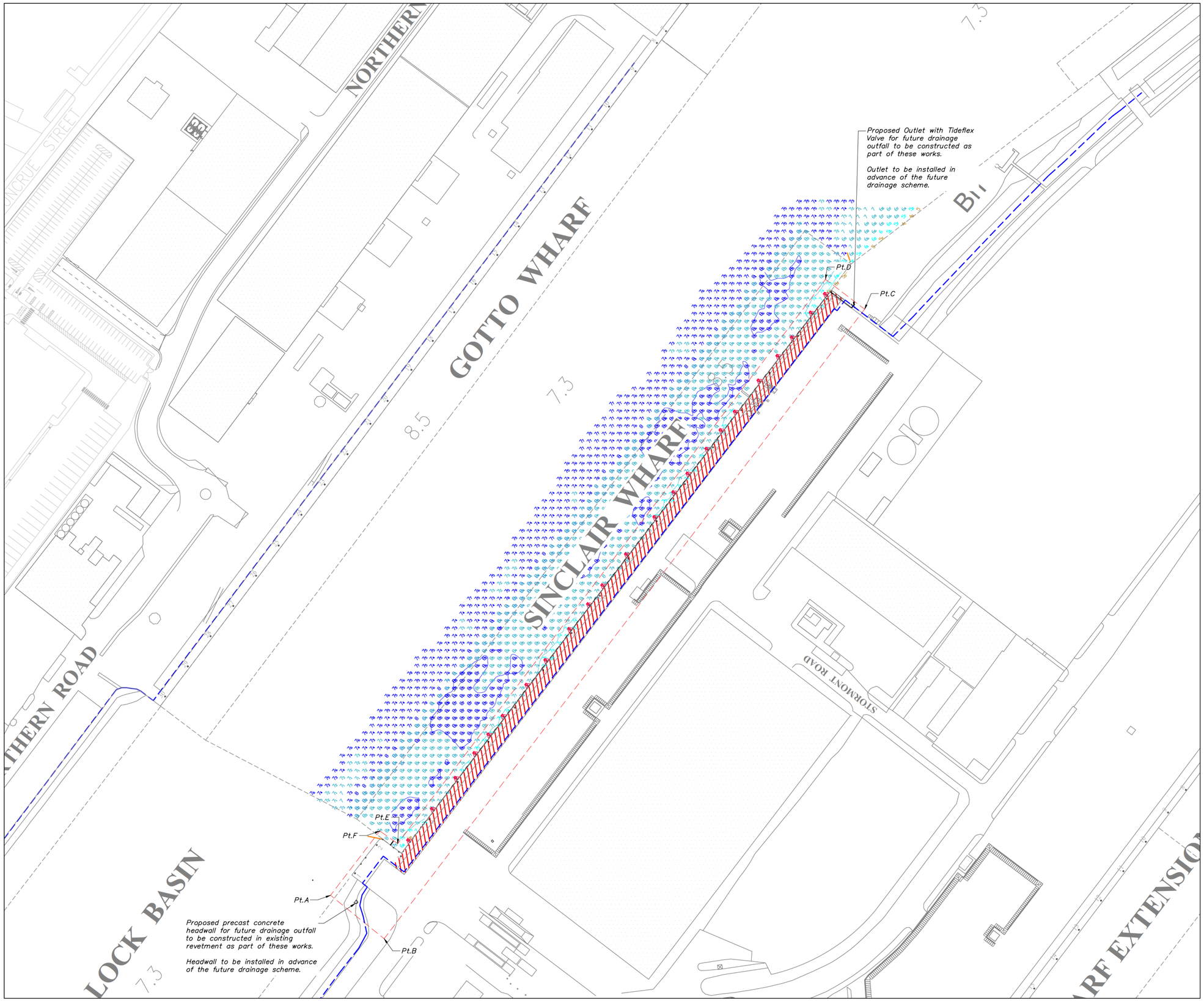
Client: BELFAST HARBOUR COMMISSIONERS	Drawn by:	Date: AUGUST 2026	
Project Number:	Checked by:	Scales: AS SHOWN	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0001		Revision: P01	STATUS: S2

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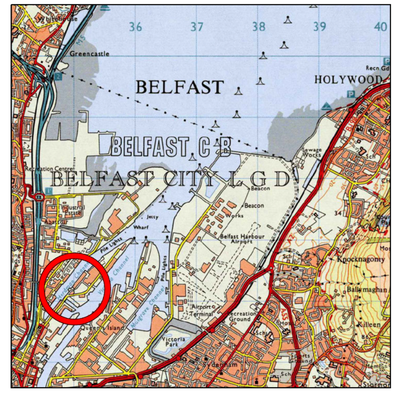
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Rev.	Date	By	Check	Details	Appr.
P01	21/08/26			First Issue	



Site Location
Scale 1:1000



Site Location
Scale 1:50,000

Extent of Works Below M.H.W.S.			
Point	Easting	Northing	Latitude Longitude
Pt.A	334897.6997	376181.0310	54° 36' 57.4"N –5° 54' 44.4"W
Pt.B	334926.3333	376157.8768	54° 36' 56.6"N –5° 54' 42.9"W
Pt.C	335182.9851	376494.1116	54° 37' 07.3"N –5° 54' 28.0"W
Pt.D	335162.0695	376510.0224	54° 37' 07.8"N –5° 54' 29.1"W
Pt.E	334933.5969	376208.6644	54° 36' 58.3"N –5° 54' 42.4"W
Pt.F	334923.9981	376215.4114	54° 36' 58.5"N –5° 54' 42.9"W

Legend

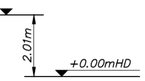
- MHWS =3.5mHD
- Proposed works boundary
- Area of Repair Works to Wharf
- Proposed Fender

General Notes

1. All levels in metres to Harbour Datum (HD).
2. All dimensions in mm unless noted otherwise.
3. Harbour datum at Belfast Harbour is 2.01m below Ordnance Datum (OD).
4. Bathymetric Survey shown on drawing undertaken by Clydeside Surveys Ltd in December 2024. Drawing No. CSL–A0–1250–02_2024

Tide Levels CD:

HAT	= +3.90mHD
MHWS	= +3.50mHD
MLWS	= +0.40mHD
LAT	= +0.00mHD



PRELIMINARY DRAWING

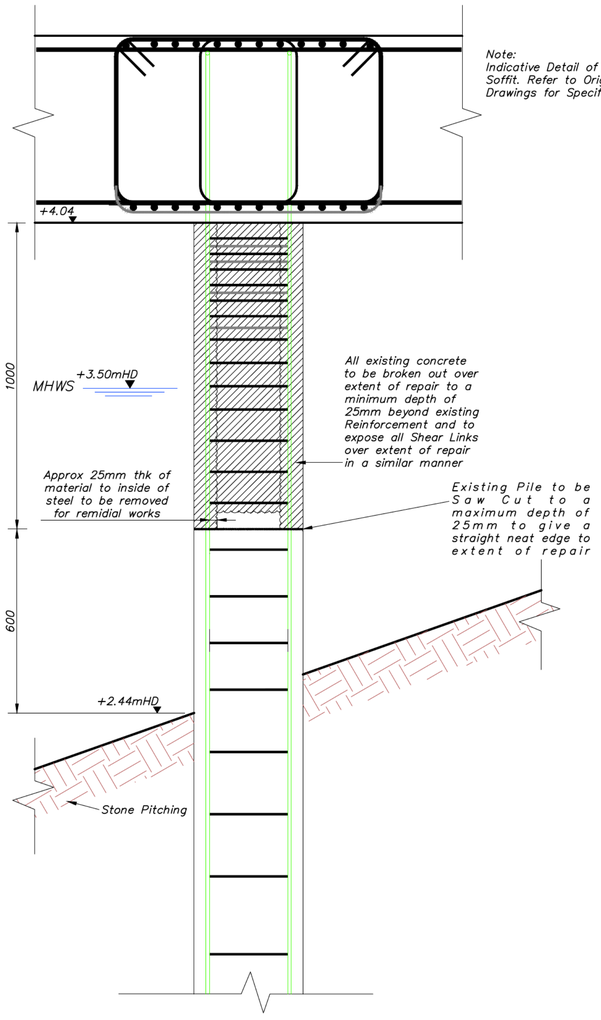
Project Title:
SINCLAIR WHARF
STRENGTHENING WORKS

Drawing Title:
PROPOSED SITE LOCATION PLAN

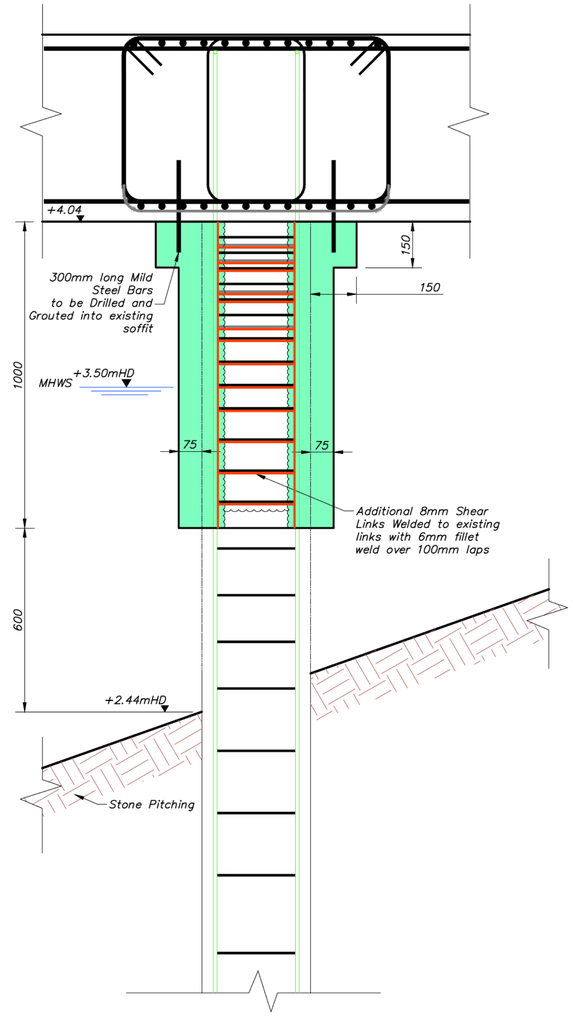
Client: BELFAST HARBOUR COMMISSIONERS	Drawn by:	Date: AUGUST 2026	
Project Number:	Checked by:	Scales: 1:1000	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0002		Revision: P01	STATUS: S2

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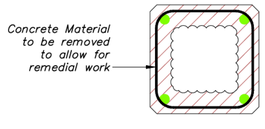
Rev.	Date	By	Check	Details	Appr.
P01	19/08/26			First Issue	



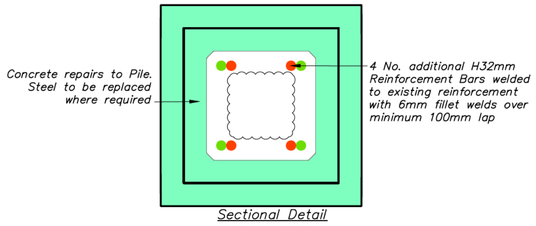
Front Piles
Stage 1 of Works to be carried out to Existing 14"x14" Reinforced Concrete Pile
Scale 1:10



Front Piles
Stage 1 of Works to be carried out to Existing 14"x14" Reinforced Concrete Pile
Scale 1:10



Sectional Detail
Scale 1:10



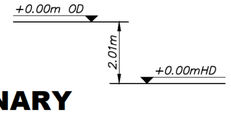
Sectional Detail
Scale 1:10

General Notes

1. All levels in metres to Harbour Datum (HD).
2. All dimensions in mm unless noted otherwise.
3. Harbour datum at Belfast Harbour is 2.01m below Ordnance Datum (OD).

Tide Levels CD:

HAT = +3.90mHD
MHWS = +3.50mHD
MLWS = +0.40mHD
LAT = +0.00mHD



PRELIMINARY DRAWING

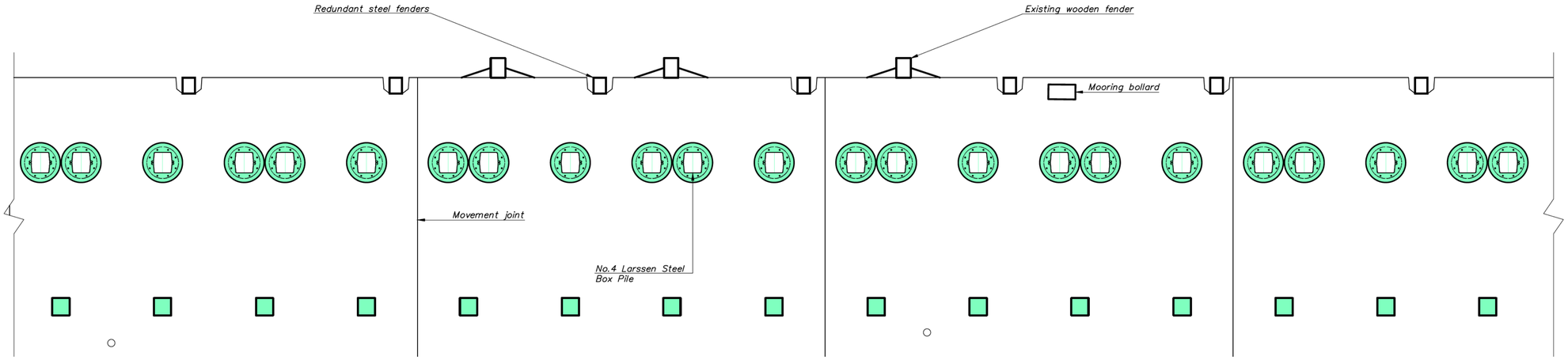
Project Title:
SINCLAIR WHARF
STRENGTHENING WORKS

Drawing Title:
Pile Head Strengthening

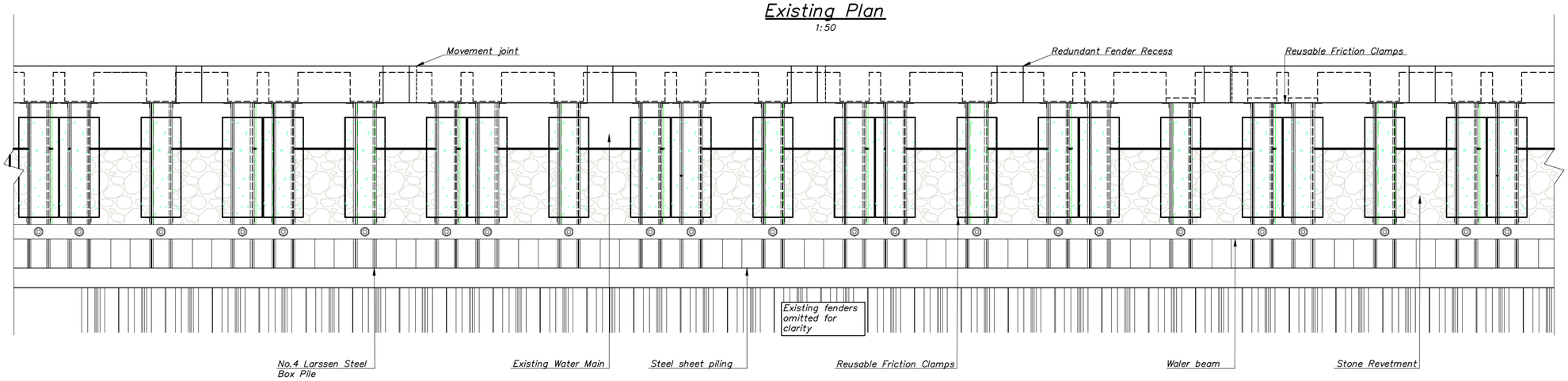
Client: Belfast Harbour Commissioners	Drawn by:	Date: AUGUST 2026	
Project Number: -	Checked by:	Scales: 1:10	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0201		Revision: P01	STATUS: S2

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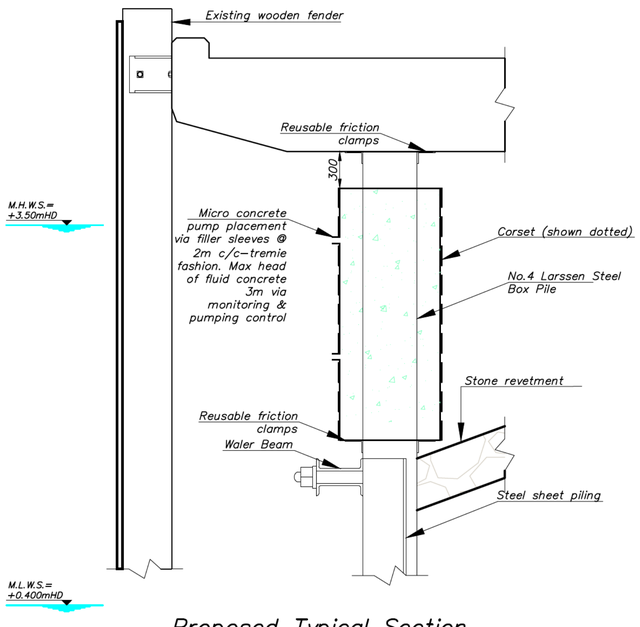
Rev.	Date	By	Check	Details	Appr.
P01	19/08/26			First Issue	



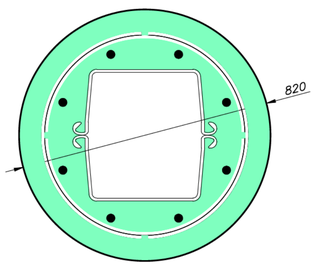
Existing Plan
1:50



Proposed Elevation
1:50



Proposed Typical Section
1:25



Proposed Box Pile
1:10

Concrete Encasement – Repair Notes

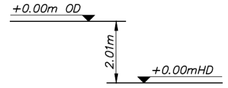
1. Micro Concrete for Pile Encasement shall be Grade C40/50,.
2. Micro Concrete for pile design shall be in accordance with the specification.
3. Maximum size of aggregate to be 10mm
4. Reinforcement to be Grade B500B in accordance with BS 4449:2005.
5. Cover to Reinforcement shall be 75mm.

General Notes

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Tide Levels CD:

HAT	= +3.90mHD
MHWS	= +3.50mHD
MLWS	= +0.40mHD
LAT	= +0.00mHD



PRELIMINARY DRAWING

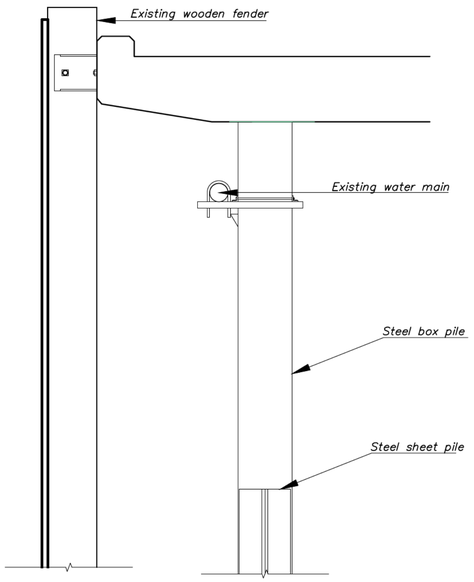
Project Title:
SINCLAIR WHARF
STRENGTHENING WORKS

Drawing Title:
BOX PILE REPAIRS
PROPOSED LAYOUT

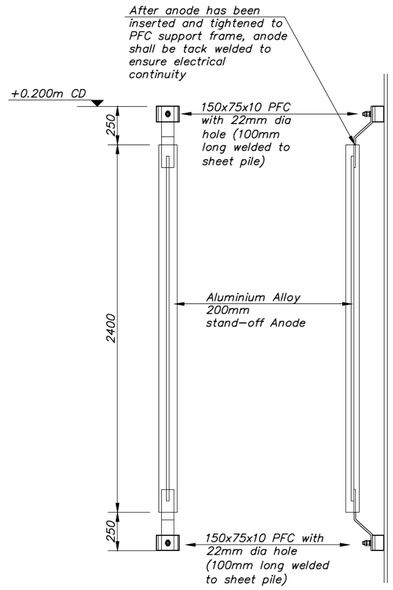
Client: Belfast Harbour Commissioners	Drawn by:	Date: AUGUST 2026	
Project Number: -	Checked by:	Scales: AS SHOWN	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0302		Revision: P01	STATUS: S2

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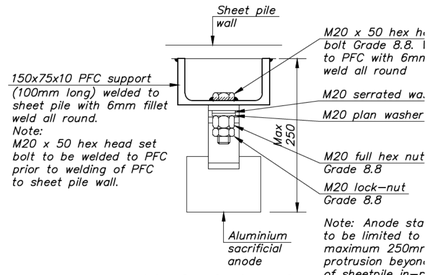
Rev.	Date	By	Check	Details	Appr.
P01	19/08/26			First Issue	



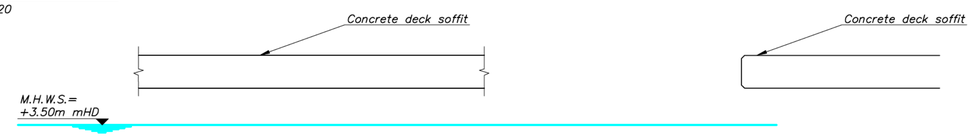
Existing Typical Section
1:25

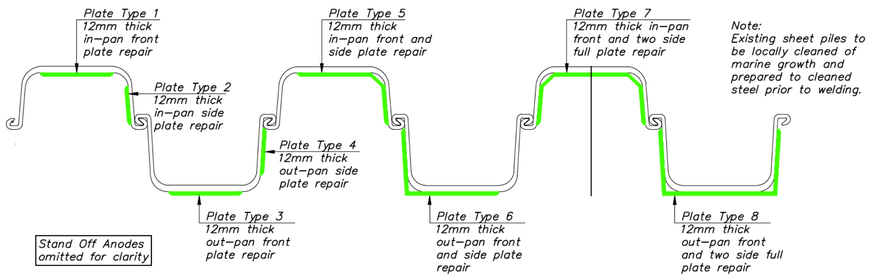


Typical Anode Detail
1:20



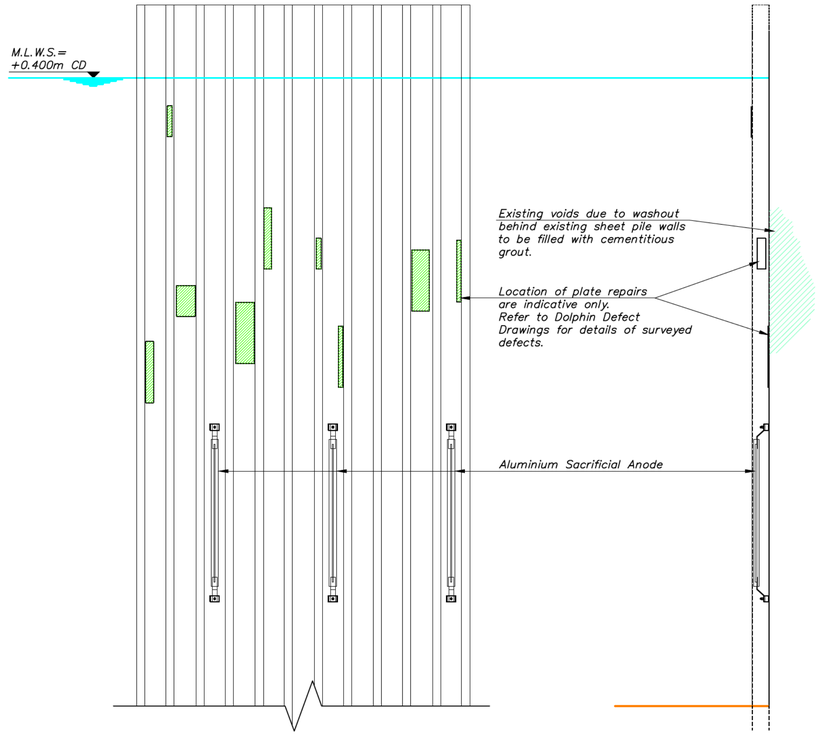
Typical Anode Connection Detail
1:5





Note:
Length of repair plates to be typically 0.5m,1.0m,1.5m and 2.0m

Typical Sheet Pile Plate Repairs
1:10



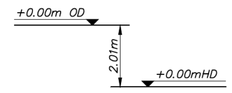
Typical Part Elevation
1:50

Typical Section
1:50

General Notes
1. All levels in metres to Harbour Datum (HD).
2. All dimensions in mm unless noted otherwise.
3. Harbour datum at Belfast Harbour is 2.01m below Ordnance Datum (OD).

Tide Levels CD:

HAT	= +3.90mHD
MHWS	= +3.50mHD
MLWS	= +0.40mHD
LAT	= +0.00mHD



PRELIMINARY DRAWING

Project Title:

SINCLAIR WHARF
STRENGTHENING WORKS

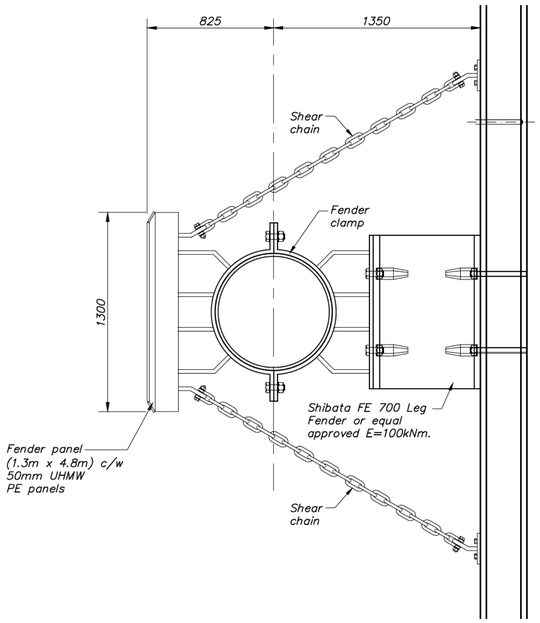
Drawing Title:

SHEET PILE REPAIRS DETAILS

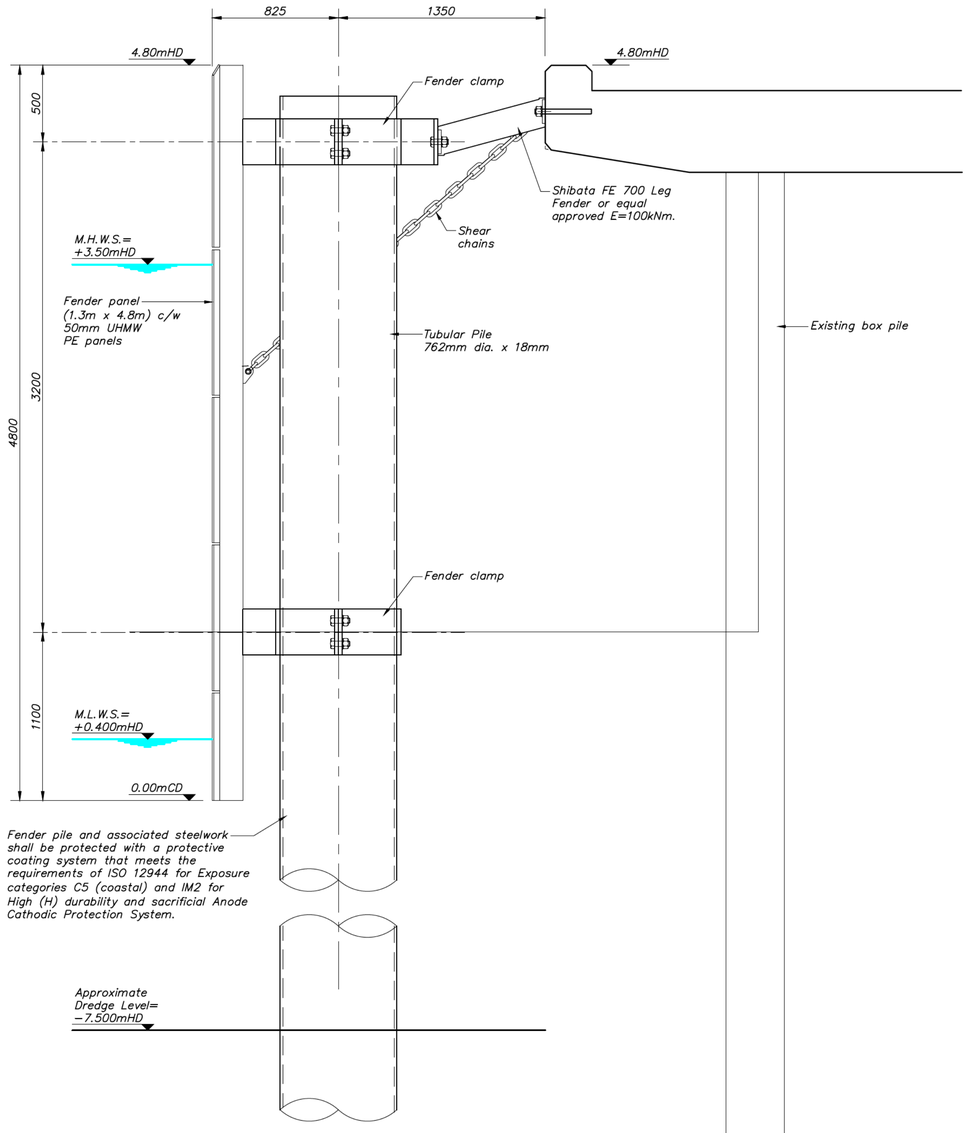
Client: Belfast Harbour Commissioners	Drawn by:	Date: AUGUST 2026	
Project Number: -	Checked by:	Scales: AS SHOWN	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0304		Revision: P01	STATUS: S2

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Plan
1:20



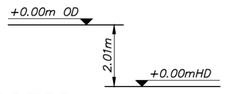
Section
1:20

General Notes

1. All levels in metres to Harbour Datum (HD).
2. All dimensions in mm unless noted otherwise.
3. Harbour datum at Belfast Harbour is 2.01m below Ordnance Datum (OD).

Tide Levels CD:

HAT	= +3.90mHD
MHWS	= +3.50mHD
MLWS	= +0.40mHD
LAT	= +0.00mHD



PRELIMINARY DRAWING

Project Title:

SINCLAIR WHARF
STRENGTHENING WORKS

Drawing Title:

REPLACEMENT FENDER PILES

Client: BELFAST HARBOUR COMMISSIONERS	Drawn by:	Date: AUGUST 2026	
Project Number:	Checked by:	Scales: 1:20	
Doran Project Number: 251103	Approved by:	Sheet Size: A1	Uniclass: PM_40_40
Drawing Number: (Project-Orig-FB-SB-F-DISC-NUMBER) 251103-DCL-MCL-XX-D-C-0902		Revision: P01	STATUS: S2

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