



LEGEND: EXISTING UTILITIES

- Unknown GPR
- Unknown RD
- GPR - British Telecommunications
- GPR - Water
- GPR - Foul Water
- GPR - Electricity Low Voltage
- Digital - Openreach (British Telecommunications)
- Digital - Portsmouth Water
- Digital - Scottish and Southern Electricity - HV
- Digital - Scottish and Southern Electricity - LV
- Digital - SGN (Southern Gas Networks)
- Digital - Southern Water (Foul Sewer)
- Digital - Virgin Media
- Digital - Hampshire County Council
- Tracing Survey - Southern Water (Storm Drain)
- Topographic - Manhole Covers and Frames
- Topographic - Telecommunications Equipment
- Topographic - Access and Inspection Chambers
- Topographic - Cast Iron Gullies
- Topographic - Water and Gas Valves
- Topographic - Underground Fire Hydrants
- Drainage - Water Inlet
- Drainage - Gully
- Drainage - Channel Solid Cover
- Drainage - Channel Drainage Grating
- Drainage - Pipe Outlet

PROPOSED SCHEME FOOTPRINT:

- Frontage 1A
- Frontage 2

SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F1A-DR-ZZ-011040 FOR SHE INFORMATION.

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AECOM

PROJECT
Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT
HAVANT BOROUGH COUNCIL

CONSULTANT
Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

- NOTES**
- GENERAL NOTES

 - THIS DOCUMENT IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
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 - ALL DIMENSIONS IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES, UNLESS DEFINED OTHERWISE.
 - DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
 - EXISTING PATH LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRN LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011101
MODEL CROSS SECTIONS - #031102
TYPICAL DETAILS - #051103

DRAWING SPECIFIC NOTES

 - DEFENCE ALIGNMENT DRAWN USING A COMBINATION OF TOPOGRAPHICAL SURVEY DATA PROVIDED BY COASTAL PARTNERS.
 - IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED.
 - EXISTING SERVICES ARE INDICATIVE ONLY AND EXACT POSITIONS AND DEPTHS MUST BE CONFIRMED ON SITE BY CONTRACTOR.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

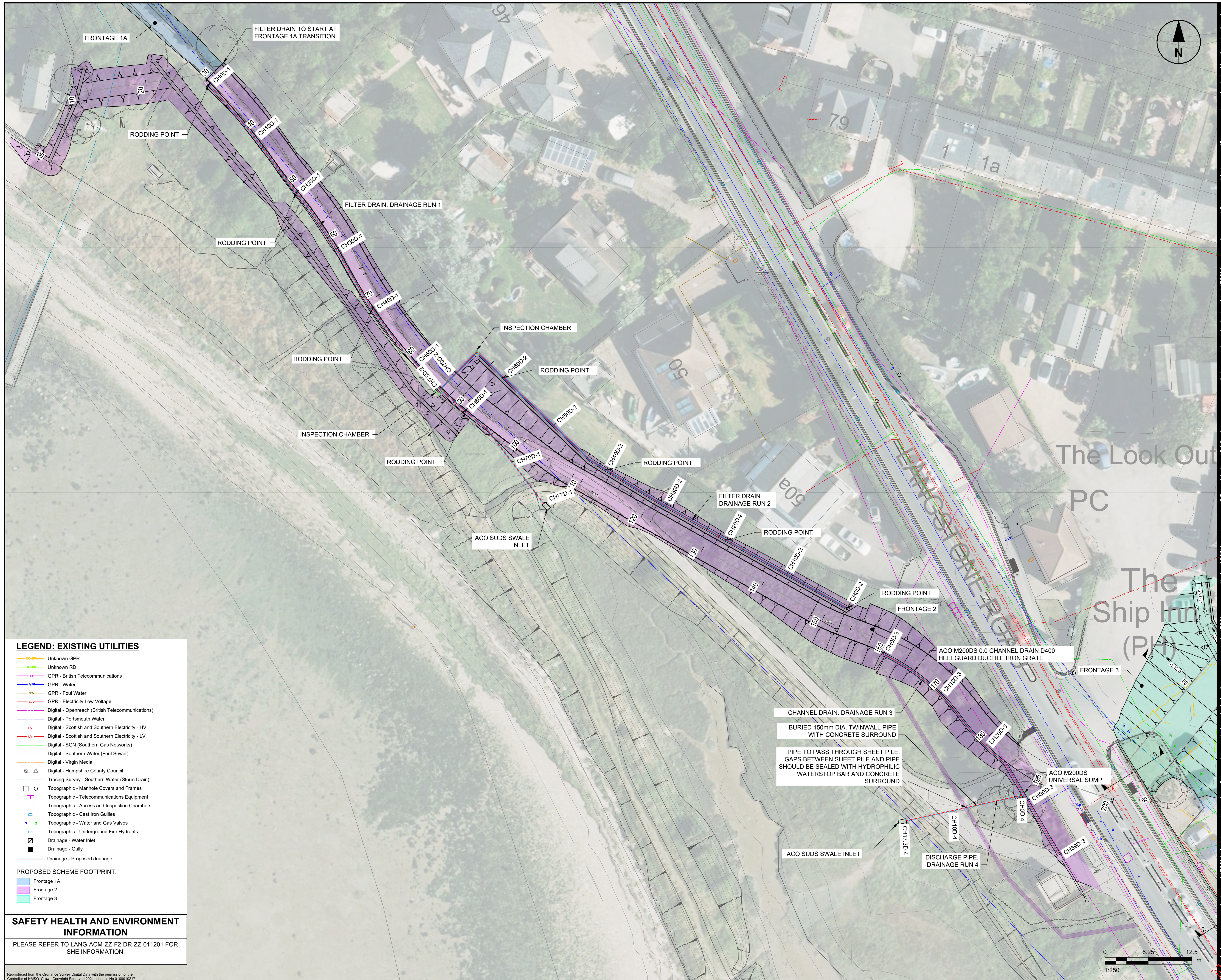
ISSUE PURPOSE / SUITABILITY
Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER
60656877

SHEET TITLE
FRONTAGE 1A
SURFACE WATER
DRAINAGE PLAN

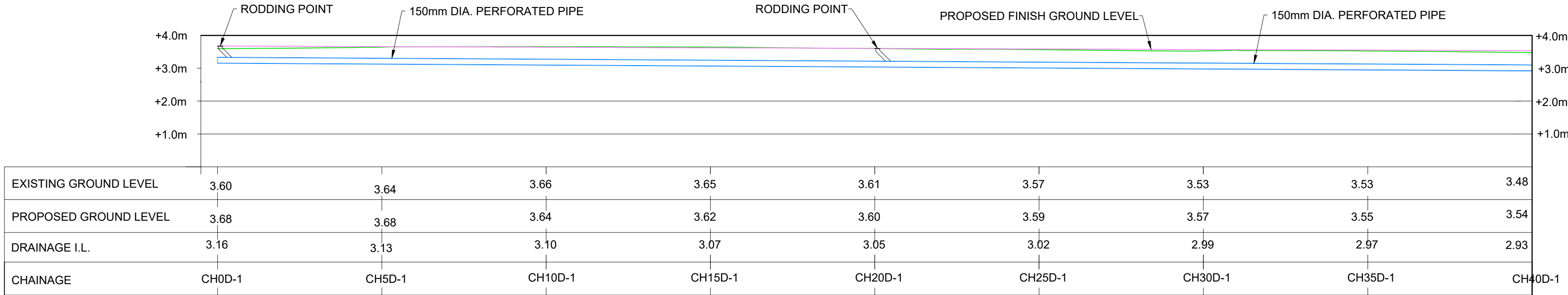
SHEET NUMBER
LANG-ACM-SW-F1A-DR-ZZ-011040



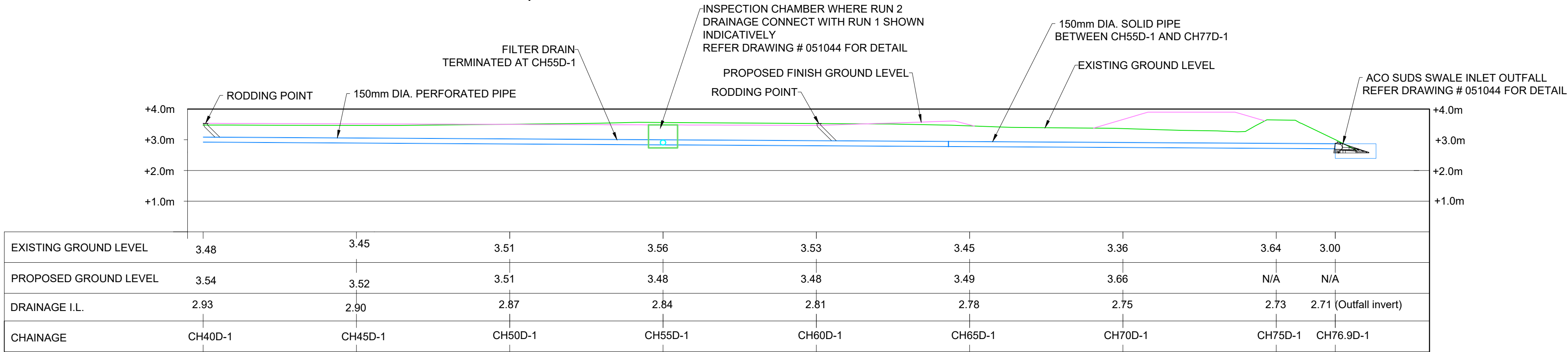
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ISO A1 594mm x 841mm
Drawn: HR
Approved: HR
Checked: HR
Designer: HR
Project Management Initials: COZ
Revision:
Last saved by: COEZ(2025-02-03) Last Plotted: 2025-02-03
Filename: C:\pwworking\aecom_us09_UK_2020\0454975\LANG-ACM-SW-F2-DR-ZZ-021042

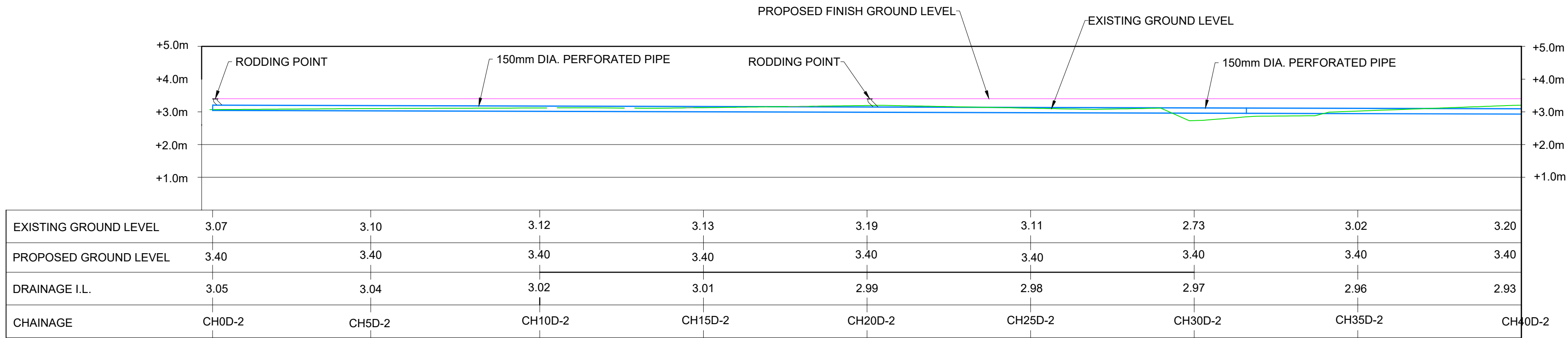
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MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN



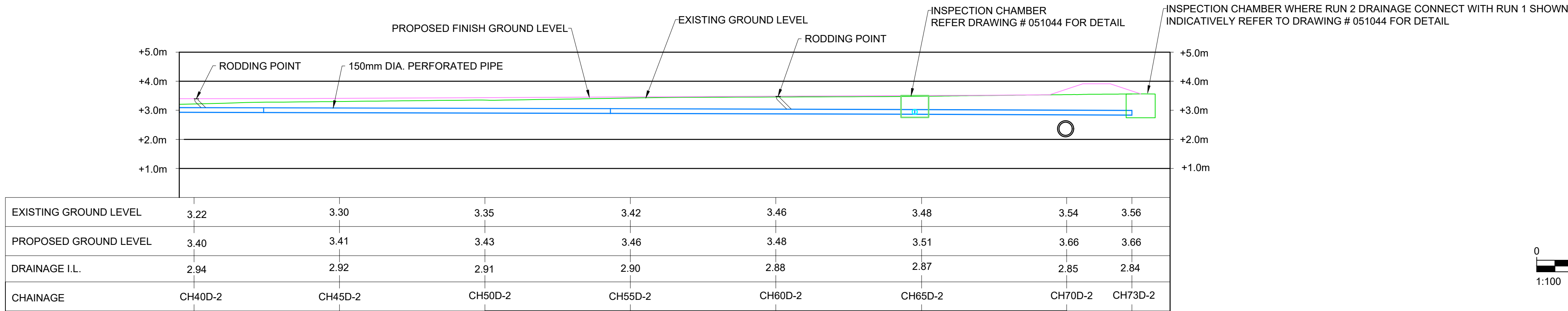
DRAINAGE RUN 1
A | CHAINAGE CH0D-1 TO CH40D-1
1:100



DRAINAGE RUN 1
B | CHAINAGE CH40D-1 TO CH76.9D-1
1:100



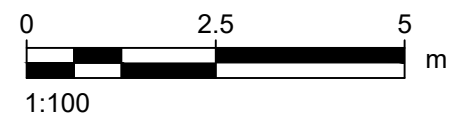
DRAINAGE RUN 2
C | CHAINAGE CH0D-2 TO CH40D-2
1:100



DRAINAGE RUN 2
D | CHAINAGE CH40D-2 TO CH73D-2
1:100

HAT +2.67 m ODN
MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN

HAT +2.67 m ODN
MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN



SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION.

AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

AECOM
Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

- GENERAL NOTES
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
F2 GENERAL ARRANGEMENT - # 011201
F2 DRAINAGE PLAN- # 011041
F2 DRAINAGE LONG SECTION SHEET 2 - # 021043
F2 DRAINAGE DETAIL - # 051044
- DRAWING SPECIFIC NOTES
- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
 - PLAN VIEW LAYOUT DRAWING REFER TO DRAWING # 051054
 - DRAINAGE INSTALLATION AS PER MANUFACTURER DETAILS: 21999 ACO UNIVERSAL GULLY D400 ASPHALT PAVEMENT INSTALLATION REV B: 21830 ACO MULTIDRAIN M2000 20.0 CHANNEL INSTALLATION DETAIL REV F: 21848 ACO MULTIDRAIN M2000 UNIVERSAL SUMP INSTALLATION DETAIL REV E
 - COVER LOADING CLASSES ARE TO BS EN 124.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
P03	28/01/25	DRAFT
C02	28/01/25	FOR PLANNING
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

PROJECT NUMBER

60656877

SHEET TITLE

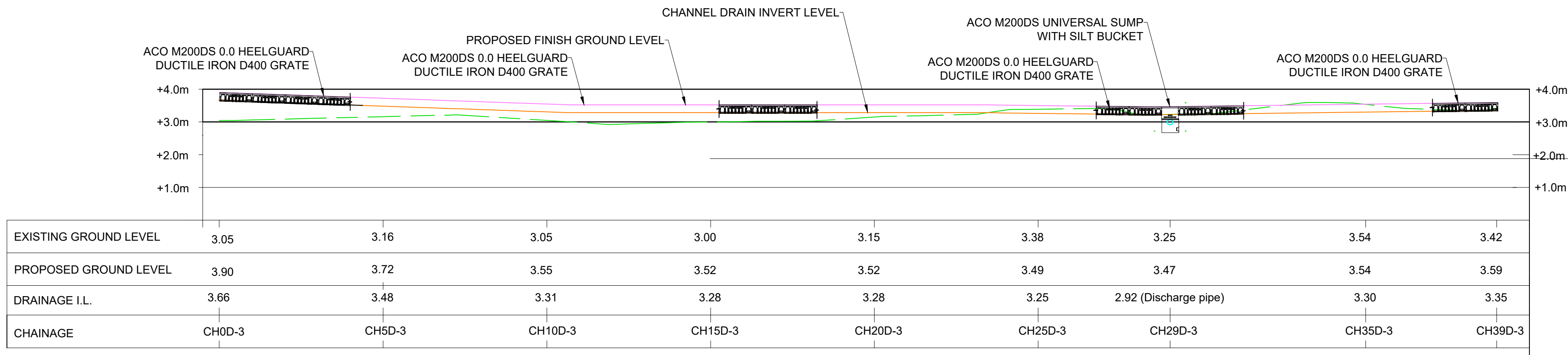
FRONTAGE 2
SURFACE WATER
DRAINAGE LONG SECTION
SHEET 1

SHEET NUMBER

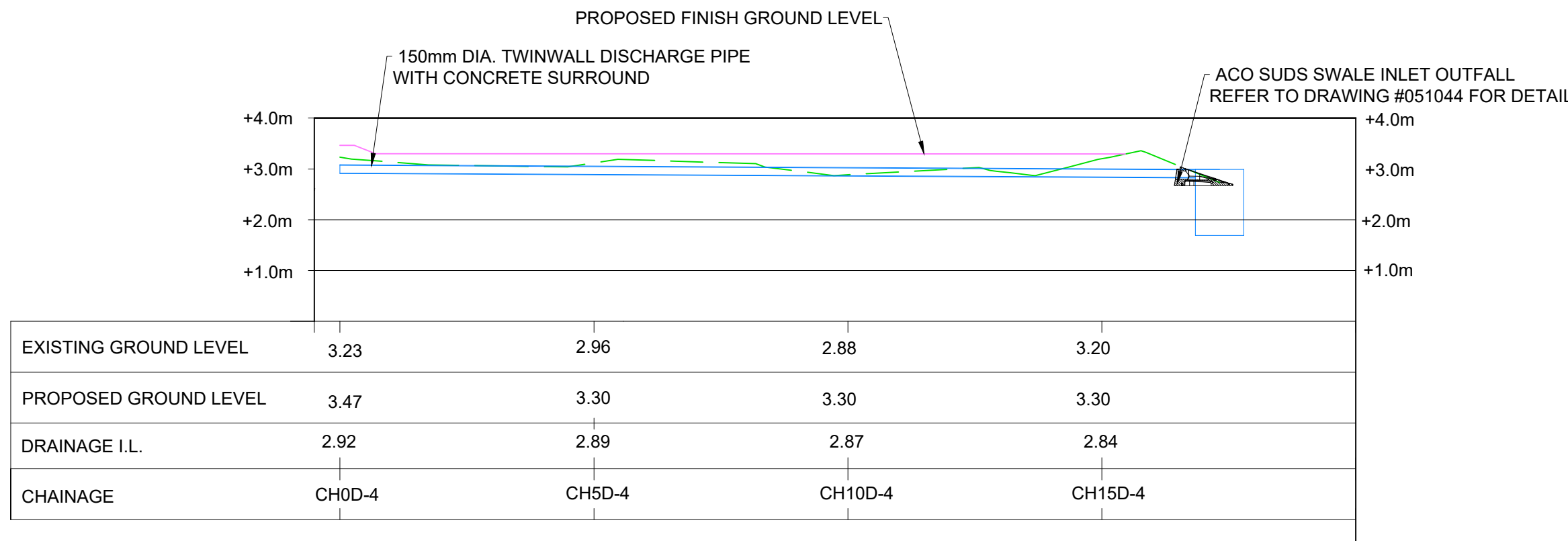
LANG-ACM-SW-F2-DR-ZZ-021042

HAT +2.67 m ODN
MHWS +2.07 m ODN
MHWN +1.17 m ODN
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LAT -2.63 m ODN

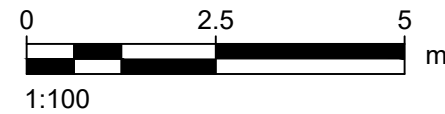
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MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN



DRAINAGE RUN 3
A | CHAINAGE CH0D-3 TO CH39D-3
1:25



DRAINAGE RUN 4
B | CHAINAGE CH0D-4 TO CH15D-4
1:25



SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION.

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

AECOM
Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

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- ALSO REFER TO DRAWINGS:
F2 GENERAL ARRANGEMENT - # 011201
F2 DRAINAGE PLAN- # 011041
F2 DRAINAGE LONG SECTION SHEET 1 - # 021042
F2 DRAINAGE DETAIL - # 051044
- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
- PLAN VIEW LAYOUT DRAWING REFER TO DRAWING # 051054
- DRAINAGE INSTALLATION AS PER MANUFACTURER DETAILS: 21828 ACO MULTIDRAIN M200D 0.0 CHANNEL INSTALLATION DETAIL REV F: 21848 ACO MULTIDRAIN M200D UNIVERSAL SUMP INSTALLATION DETAIL REV E COVER LOADING CLASSES ARE TO BS EN 124.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 2
SURFACE WATER
DRAINAGE LONG SECTION
SHEET 2

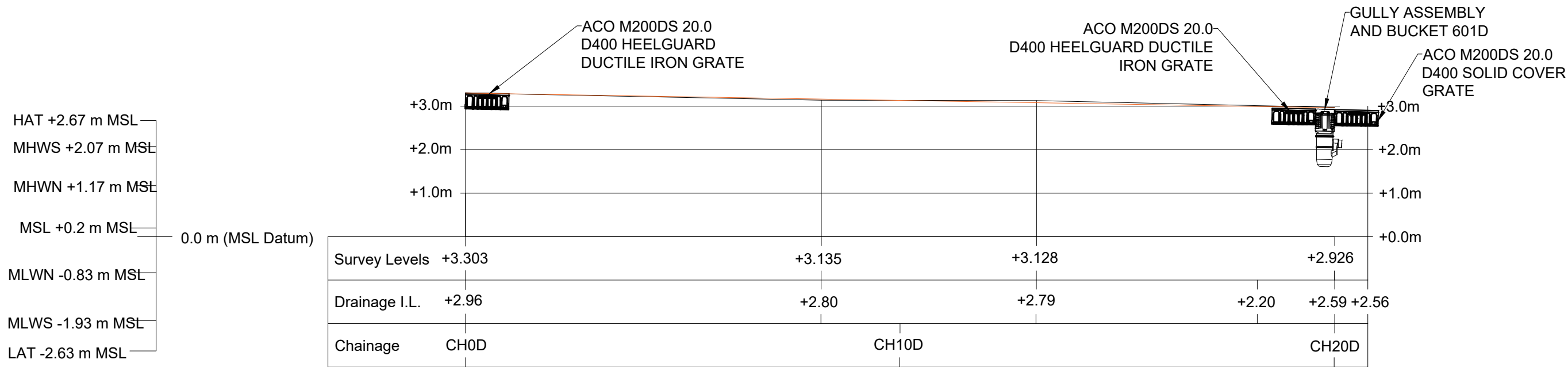
SHEET NUMBER

LANG-ACM-SW-F2-DR-ZZ-021043

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ISO A1 594mm x 841mm
Drawn: CP
Approved: JS
Checked: HR
Designer: CP
Project Management Initials: CUI
Revision:
Last saved by: KEVIN GABB(2024-03-12) Last Plotted: 2024-03-13
Filename: C:\pwworking\aecom_0609_UK_2020\0454973\LANG-ACM-SW-F3-DR-ZZ-021046

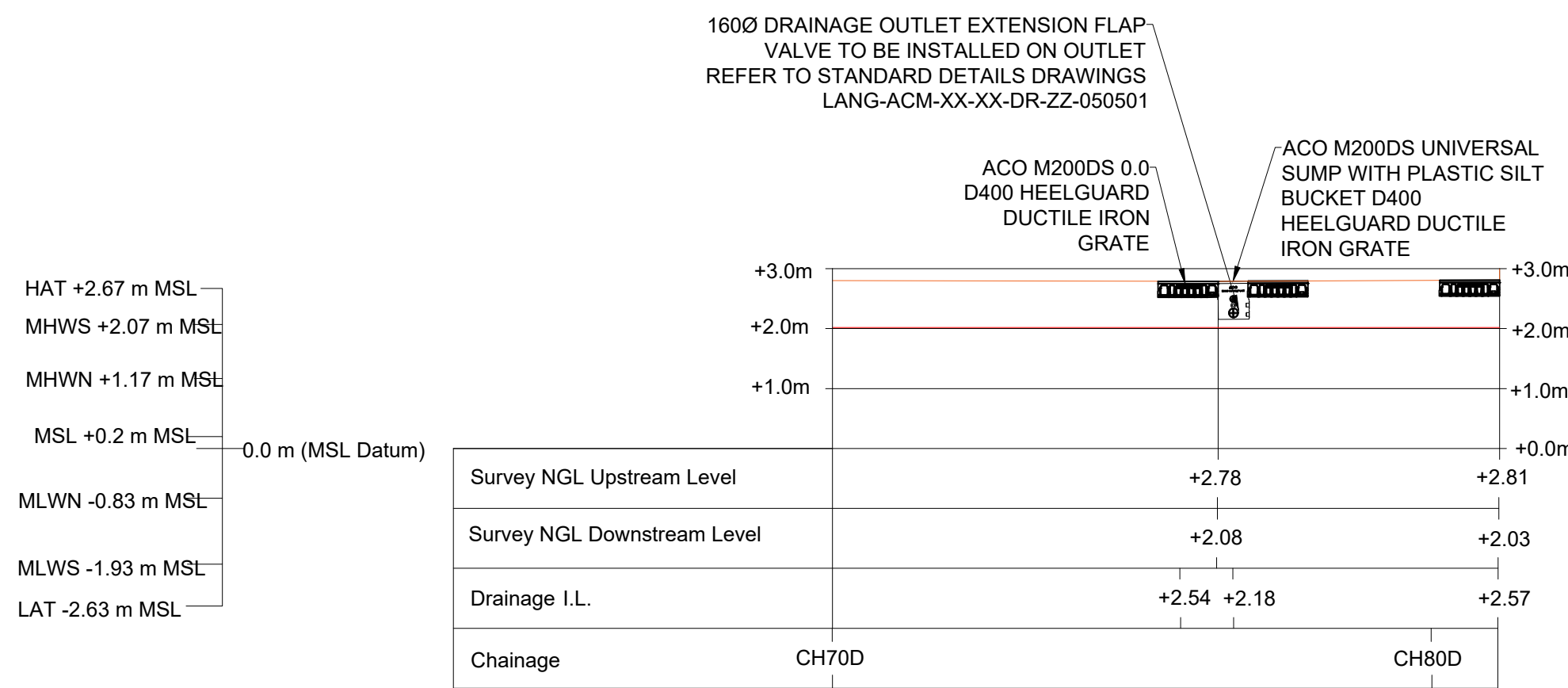
FRONTAGE 3: BASE OF BUND



FRONTAGE 3: BASE OF BUND: CHAINAGE CH0D TO CH30D

1:100

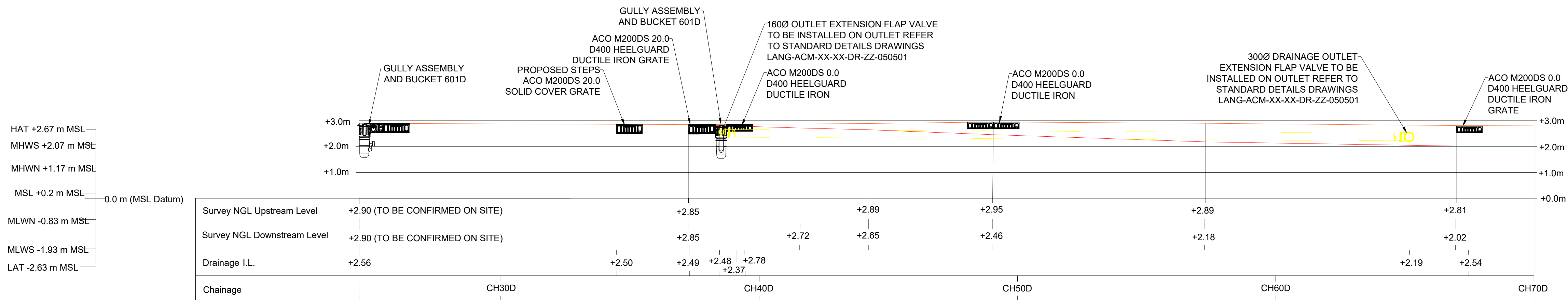
FRONTAGE 3: SHIP INN WALL, CONTINUED



FRONTAGE 3: SHIP INN: CHAINAGE CH70D TO CH82D

1:100

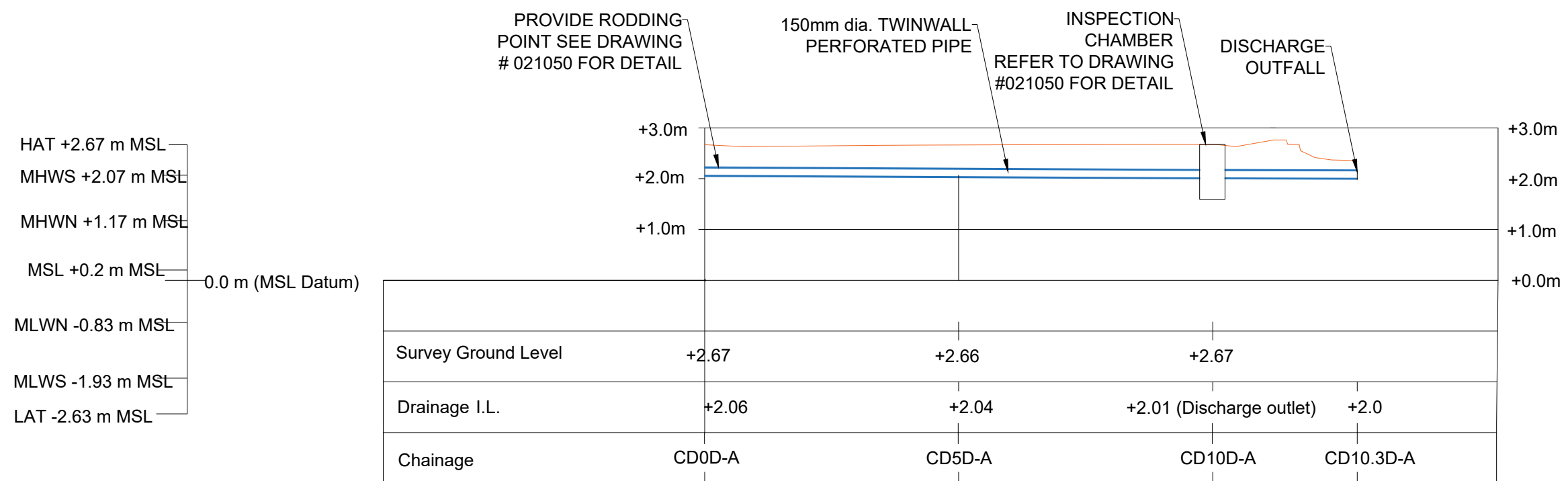
FRONTAGE 3: SHIP INN WALL



FRONTAGE 3: SHIP INN: CHAINAGE CH30D TO CH70D

1:100

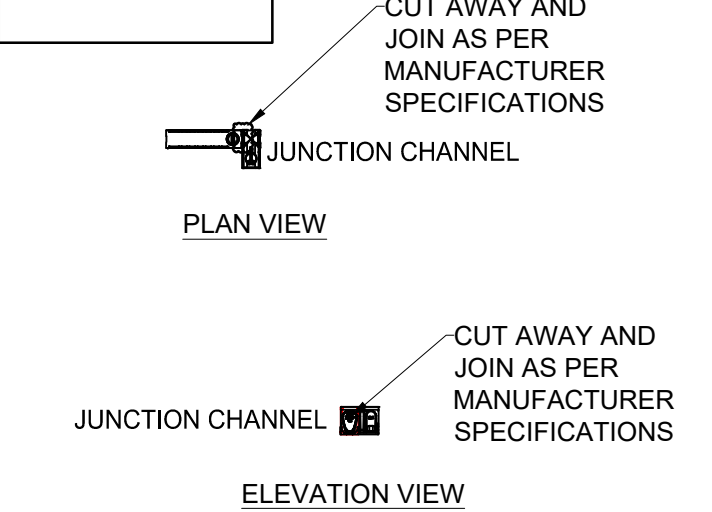
FRONTAGE 3: SHIP INN ANNEX



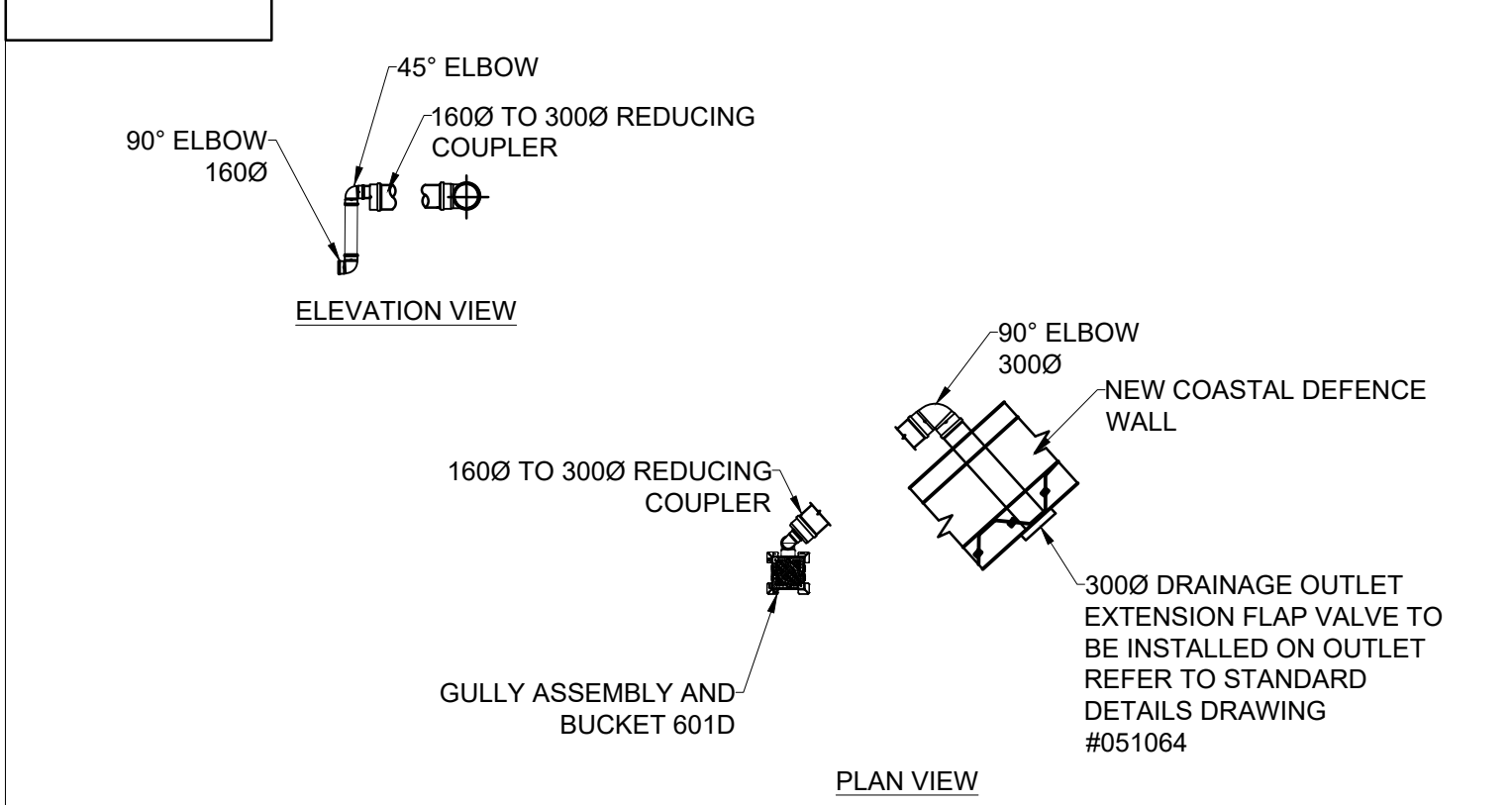
FRONTAGE 3: SHIP INN ANNEX : CHAINAGE CH0D-A TO CH10.3D-A

1:100

DETAIL A



DETAIL B



SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F3-DR-ZZ-011301 FOR SHE INFORMATION.



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
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NOTES

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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SHE WORKBOOK FOR ANY IDENTIFIED POTENTIAL RISKS.
- ALSO REFER TO DRAWINGS:
F3 DRAINAGE PLAN - # 011045
F3 DRAINAGE DETAIL - # 051048

DRAWING SPECIFIC NOTES

- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
- DRAINAGE INSTALLATION AS PER MANUFACTURER DETAILS: 21999 ACO UNIVERSAL GULLY D400 ASPHALT PAVEMENT INSTALLATION REV B; 21830 ACO MULTIDRAIN M200D 20.0 CHANNEL INSTALLATION DETAIL REV F; 21848 ACO MULTIDRAIN M200D UNIVERSAL SUMP INSTALLATION DETAIL REV E
- COVER LOADING CLASSES ARE TO BS EN 124.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

PROJECT NUMBER

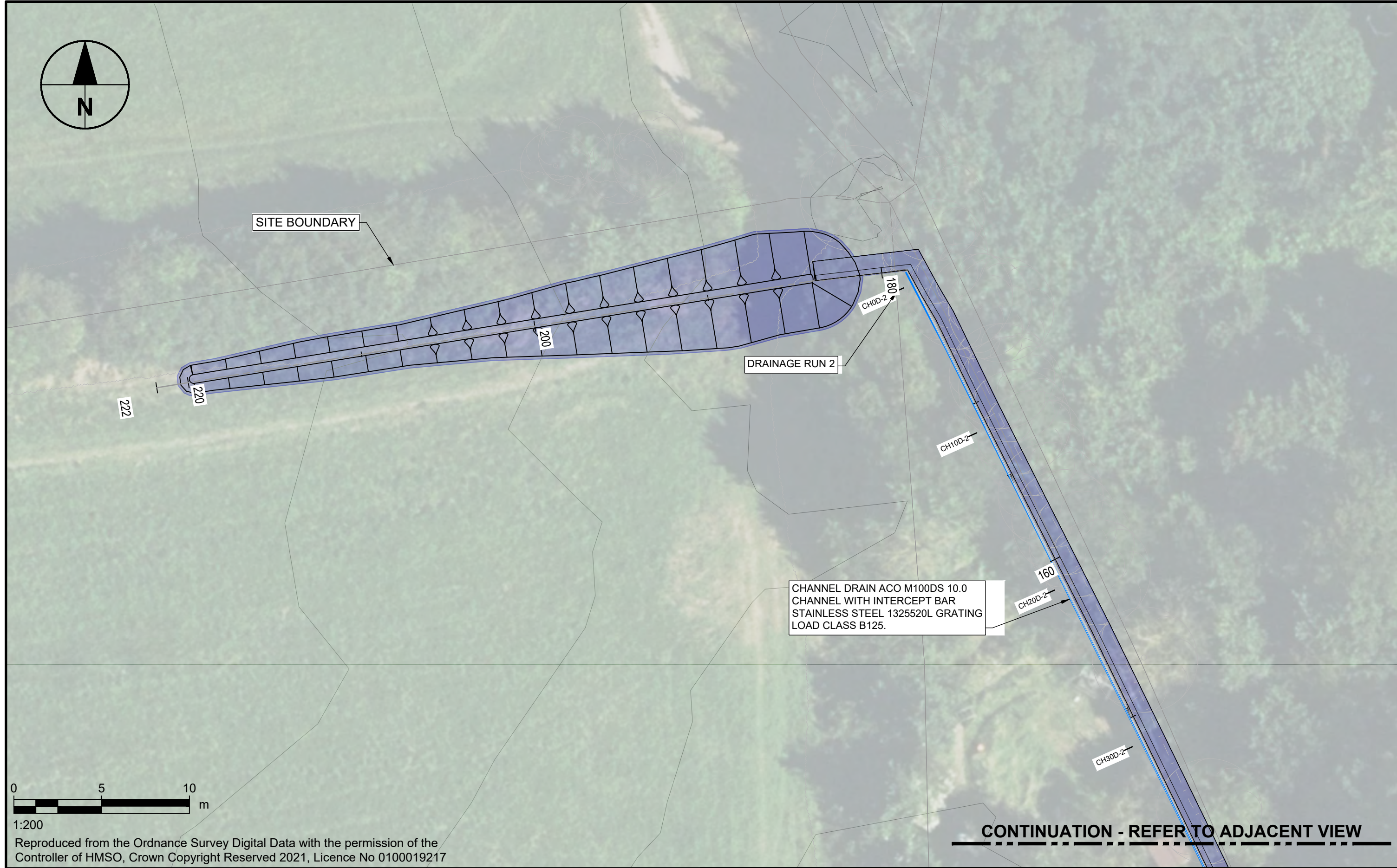
SHEET TITLE

FRONTAGE 3
SURFACE WATER
DRAINAGE LONG SECTION

SHEET NUMBER

LANG-ACM-SW-F3-DR-ZZ-021046

ISO A1 594mm x 841mm
Drawn: KG
Approved: JS
Checked: HR
Designer: CP
Project Management Initials: COT
Revision:
Last saved by: KEVIN GABB(2024-03-12) Last Plotted: 2024-03-13
Filename: C:\pwworking\aecom_0509_UK_2020\0454973\LANG-ACM-SW-F5-DR-ZZ-011051



LEGEND: EXISTING UTILITIES

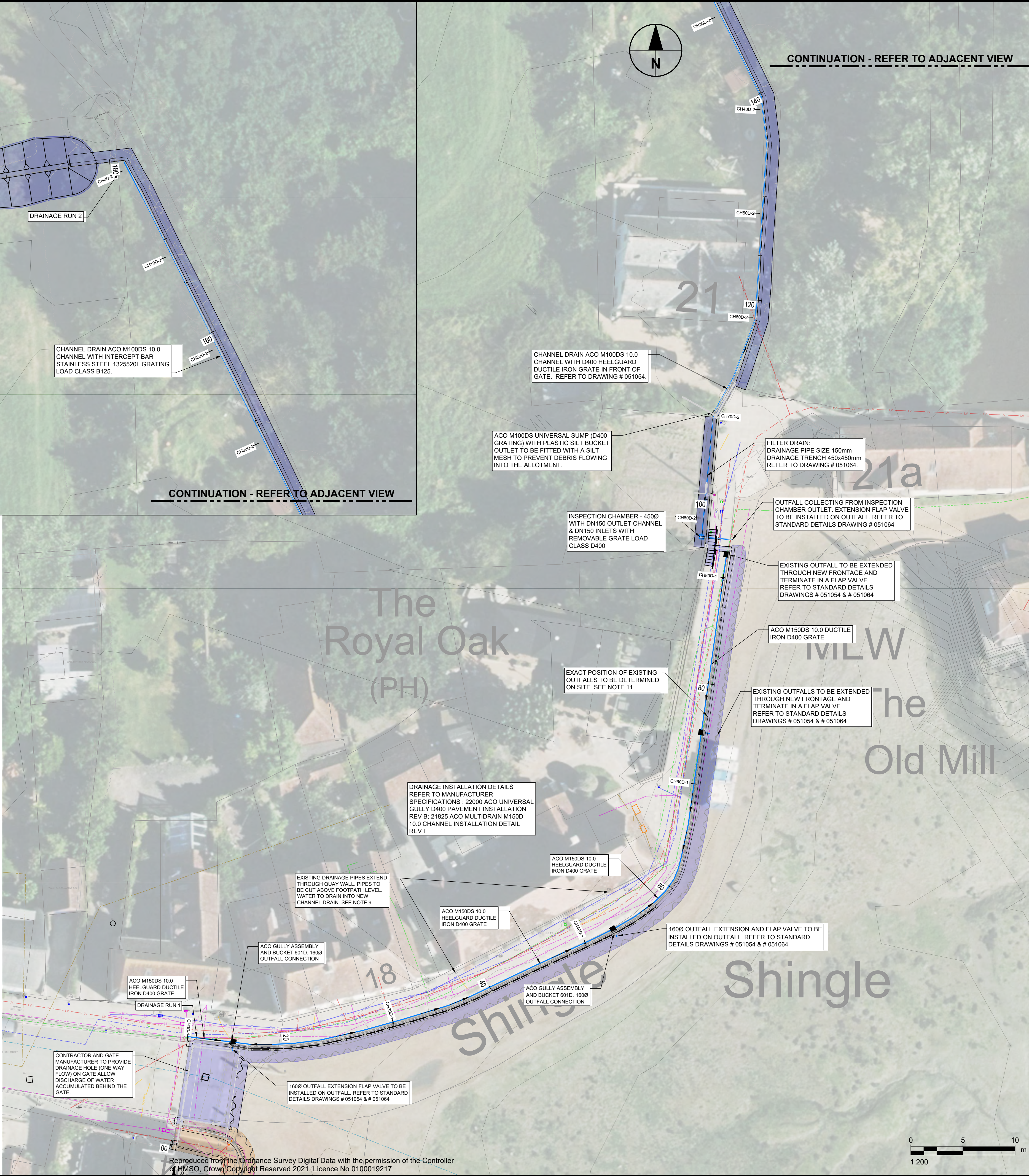
- Unknown GPR
- Unknown RD
- GPR - British Telecommunications
- GPR - Water
- GPR - Foul Water
- GPR - Electricity Low Voltage
- Digital - Openreach (British Telecommunications)
- Digital - Portsmouth Water
- Digital - Scottish and Southern Electricity - HV
- Digital - Scottish and Southern Electricity - LV
- Digital - SGN (Southern Gas Networks)
- Digital - Southern Water (Foul Sewer)
- Digital - Virgin Media
- Digital - Hampshire County Council
- Tracing Survey - Southern Water (Storm Drain)
- Topographic - Manhole Covers and Frames
- Topographic - Telecommunications Equipment
- Topographic - Access and Inspection Chambers
- Topographic - Cast Iron Gullies
- Topographic - Water and Gas Valves
- Topographic - Underground Fire Hydrants
- Drainage - Water Inlet
- Drainage - Gully
- Drainage - Channel Solid Cover
- Drainage - Channel Drainage Grating
- Drainage - Pipe Outlet

FRONTAGE SCHEME FOOTPRINT

- Frontage 4
- Frontage 5

SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F5-DR-ZZ-011501 FOR SHE INFORMATION.



AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

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- EXISTING PATH LEVELS VARIES ALONGS DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
- ALSO REFER TO DRAWINGS:
F5 GENERAL ARRANGEMENT - # 011501
F5 DRAINAGE LONG SECTION - # 021502
F5 DRAINAGE DETAILS - # 051054

DRAWING SPECIFIC NOTES

- DEFENCE ALIGNMENT DRAWN USING A COMBINATION OF TOPOGRAPHICAL SURVEY DATA PROVIDED BY COASTAL PARTNERS.
- IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED. REFER TO DRAWINGS #051064 FOR OUTFALL EXTENSION DETAILS. CONTRACTOR TO INSPECT AND DETERMINE CONDITION OF EXISTING OUTFALLS. DAMAGED PIPES TO BE REPLACED.
- THE SERVICE INFORMATION SHOWN HAS BEEN INFORMED BY BY DIGITAL MAPPING, GPR SURVEY, TOPOGRAPHICAL SURVEY AND CONVERSATIONS WITH UTILITY PROVIDERS. EXACT POSITIONS OF EXISTING SERVICES IS TO BE CONFIRMED ON SITE PRIOR TO WORKS COMMENCING. SOME LINES ARE KNOWN TO BE ABANDONED SEE ASSET REGISTER FOR DETAILS.
- REFER TO ASSET REGISTER LANG-ACM-ZZ-RG-ZZ-000107 FOR EXISTING OUTFALLS

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detail Design Update
P03	29/02/24	100% Detailed Design
C01	29/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 5
SURFACE WATER
DRAINAGE PLAN

SHEET NUMBER

LANG-ACM-SW-F5-DR-ZZ-011051

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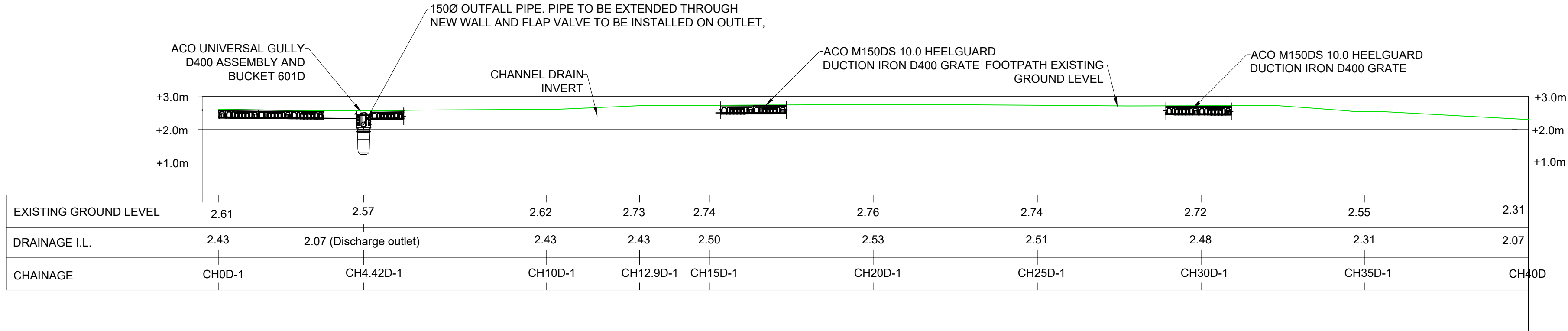
ISO A1 594mm x 841mm
Drawn: CP
Approved: JS
Checked: HR
Designer: CP
Project Management Initials: C01
Revision:
Last saved by: KEVIN GABB(2024.03.12) Last Plotted: 2024.03.13
Filename: C:\pwworking\aecom_0609_UK_2020\04\5497\3\LANG-ACM-SW-F5-DR-ZZ-021052

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MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN

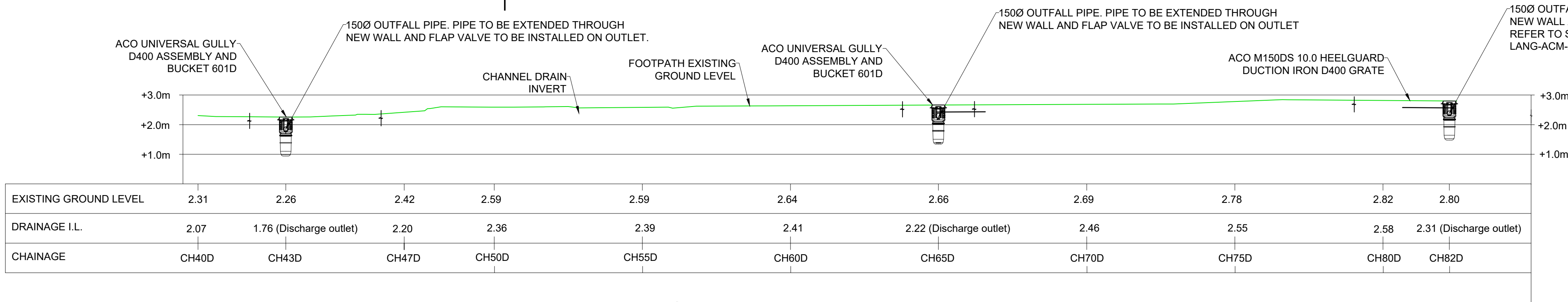
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MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN

HAT +2.67 m ODN
MHWS +2.07 m ODN
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MLWN -0.83 m ODN
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LAT -2.63 m ODN

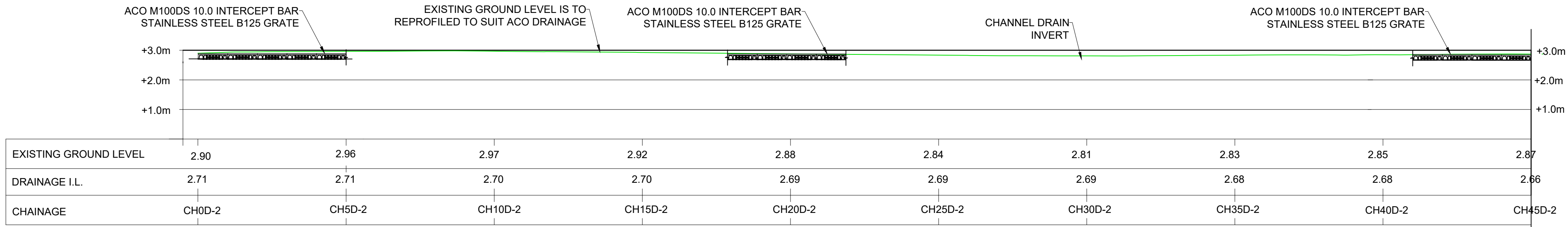
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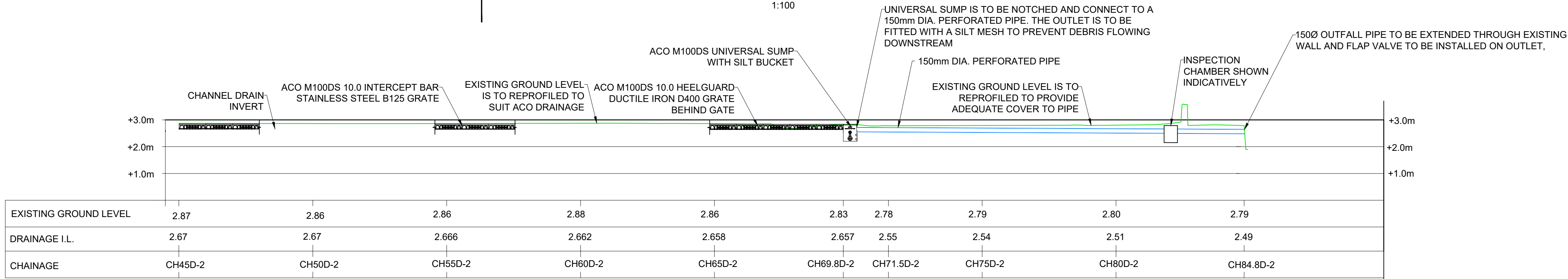
DRAINAGE RUN 1
A | CHAINAGE CH0D-1 TO CH45D-1
1:100



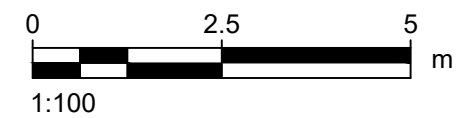
DRAINAGE RUN 1
B | CHAINAGE CH40D-1 TO CH82D-1
1:100



DRAINAGE RUN 2
C | CHAINAGE CH0D-2 TO CH45D-2
1:100



DRAINAGE RUN 2
D | CHAINAGE CH45D-2 TO CH84.8D-2
1:100



SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F5-DR-ZZ-011501 FOR SHE INFORMATION.



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

- GENERAL NOTES
- DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS IN MILLIMETRES, ALL CHAINAGES, LEVELS IN METRES TO ORDINANCE DATUM (NEWLYN) AND COORDINATES ARE IN METRES, UNLESS DEFINED OTHERWISE.
 - DEFENCE LENGTHS SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
 - EXISTING PATH LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - # 011501
MODEL CROSS SECTIONS - # 031502, # 031503
TYPICAL CROSS SECTION - # 051504, # 051505, # 051506
- DRAWING SPECIFIC NOTES
- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
 - PLAN VIEW LAYOUT DRAWING REFER TO DRAWING # 051054
 - DRAINAGE INSTALLATION DETAILS REFER TO MANUFACTURER SPECIFICATIONS : 22000 ACO UNIVERSAL GULLY D400 PAVEMENT INSTALLATION REV B: 21825 ACO MULTIDRAIN M1500 10.0 CHANNEL INSTALLATION DETAIL REV F
 - REFER TO DRAWING # 051504 AND # 051505 FOR TYPICAL CROSS-SECTION DETAILS

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 5
SURFACE WATER
DRAINAGE LONG SECTION

SHEET NUMBER

LANG-ACM-SW-F5-DR-ZZ-021052