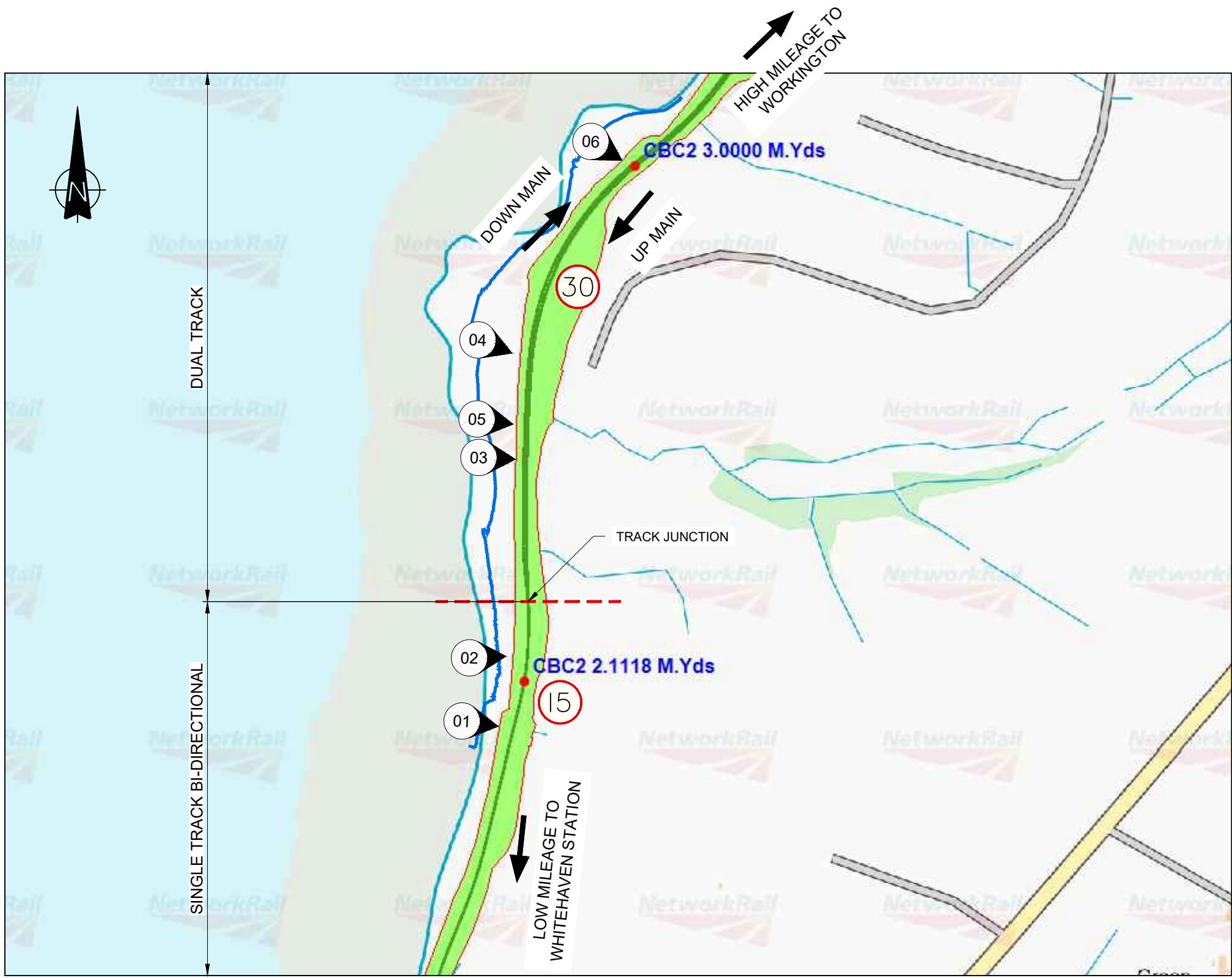




LOCATION PLAN  
NOT TO SCALE

- KEY
- 01 = PHOTO MARKER
  - NR PROPERTY BOUNDARY
  - 15 = LINE SPEED
  - MEAN HIGH WATER SPRINGS



PLAN VIEW  
NOT TO SCALE



PHOTO 01: 2m 1060yd START OF DEFENCE TO HIGH MILEAGE



PHOTO 02: 2m 1150yd EXISTING ACCESS RAMP



PHOTO 03: 2m 1400yd EXPOSED PITCHING



PHOTO 04: 2m 1500yd UNPROTECTED HEADLAND



PHOTO 05: 2m 1415yd CULVERT 15Q



PHOTO 06: 3m 0060yd UNDERBRIDGE 16 CATTLE CREEP

- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING.
  - THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-11001 TO 162832-WDC-DRG-CV-11008

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

APPROVED FOR CONSTRUCTION

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status  
APPROVED FOR CONSTRUCTION

Designers  
IDT - Works Delivery  
Heaton Mersey  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL



Project  
CBC2 - W21050  
PARTON TO HARRINGTON SEA WALLS NO. 3

Drawing Title  
SITE LOCATION PLANS & PHOTOS

Designer	M. BOLSOVER	Signed	Date	08/12/2020
Drawn	M. WILLIAMS	Signed	Date	08/12/2020
Checked	P. STOKES	Signed	Date	08/12/2020
Approved	B. CAMPBELL	Signed	Date	08/12/2020







Scale(s) at A1  
NTS  
Sheet Size A1 594 x 841  
ELR & Mileage  
CBC2 2m 1118yd - 3m 0000yd

Drawing Number  
162832-WDC-DRG-CV-11000

Revision  
C01





-  = NR PROPERTY BOUNDARY
-  = EXISTING EXTENTS OF ROCK ARMOUR
-  = PLACED BEACH MATERIAL
-  = STONE PITCHING
-  = UNPROTECTED HEADLAND
-  = MEAN HIGH WATER SPRINGS

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWs)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

APPROVED FOR CONSTRUCTION

Designers  
**IDT - Works Delivery**  
**Heaton Mersey**  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL



Project

CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

Drawing Title

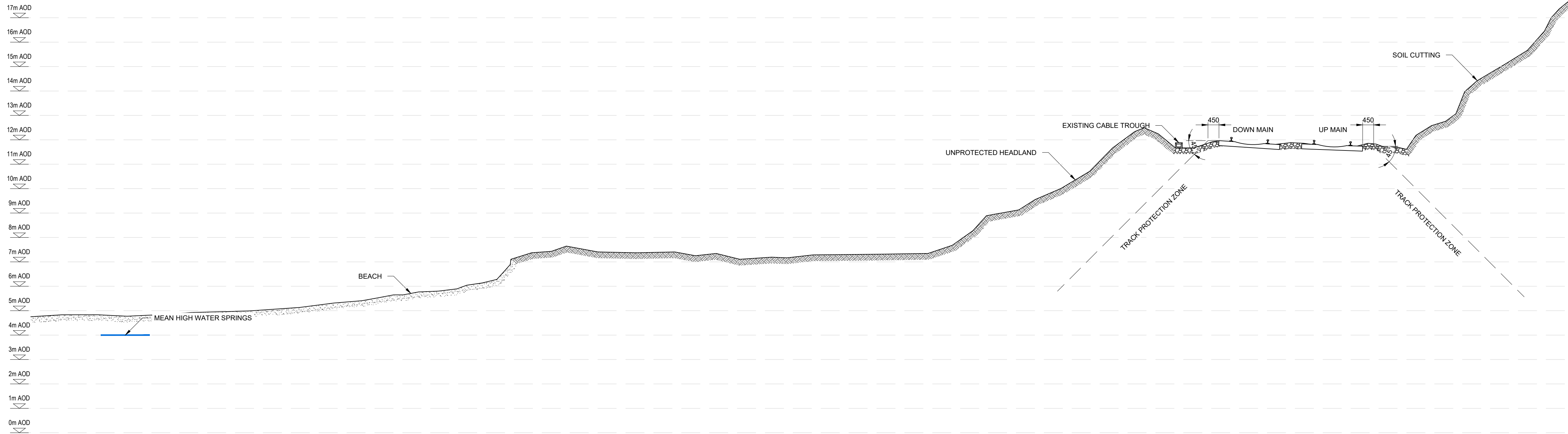
SITE OVERVIEW - EXISTING

Designer	M. BOLSOVER	Signed	Date 08/12/2020
Drawn	M. WILLIAMS	Signed	Date 08/12/2020
Checked	P. STOKES	Sig	Date 08/12/2020
Approved	B. CAMPBELL	Signed	Date 08/12/2020

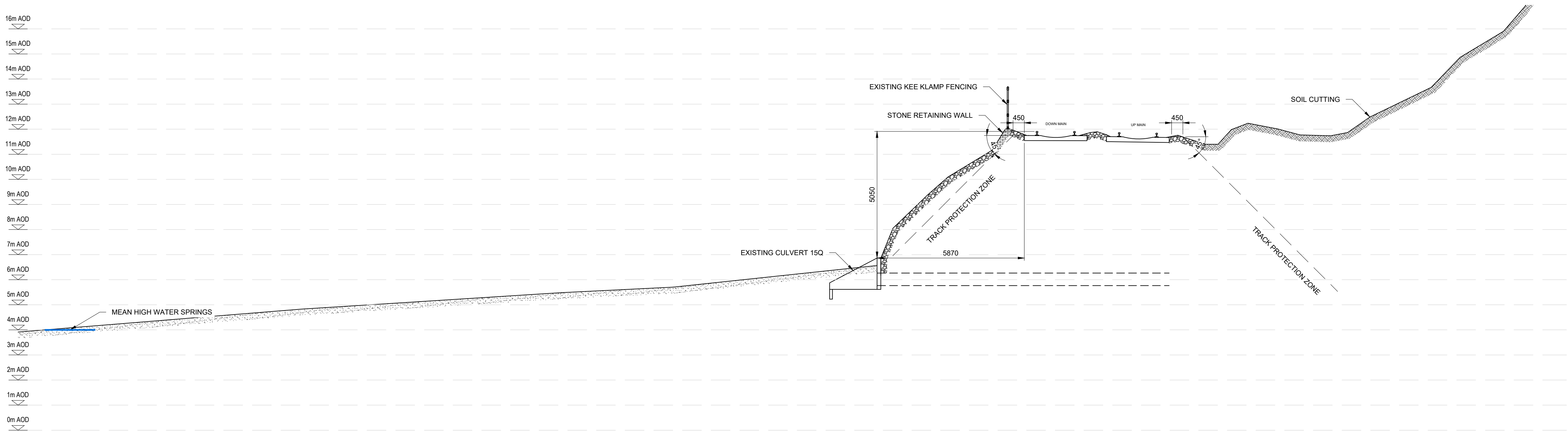
Scale(s) at A1	Sheet Size A1 594 x 841	ELR & Mileage
1:1000		CBC2 2m 1118yd - 3m 0000yd

Drawing Number	Revision
162832-WDC-DRG-CV-11001	C01





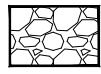
SECTION A-A  
UNPROTECTED HEADLAND  
SCALE: 1:100



SECTION B-B  
EXISTING CULVERT 15Q 2m 1415y  
SCALE: 1:100

- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING.
  - THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-11000 TO 162832-WDC-DRG-CV-11008

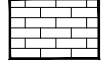
--- = NR PROPERTY BOUNDARY



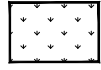
= EXISTING EXTENTS OF ROCK ARMOUR



= PLACED BEACH MATERIAL



= STONE PITCHING



= UNPROTECTED HEADLAND

— = MEAN HIGH WATER SPRINGS

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

APPROVED FOR CONSTRUCTION

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status  
APPROVED FOR CONSTRUCTION

Designers  
IDT - Works Delivery  
Heaton Mersey  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL



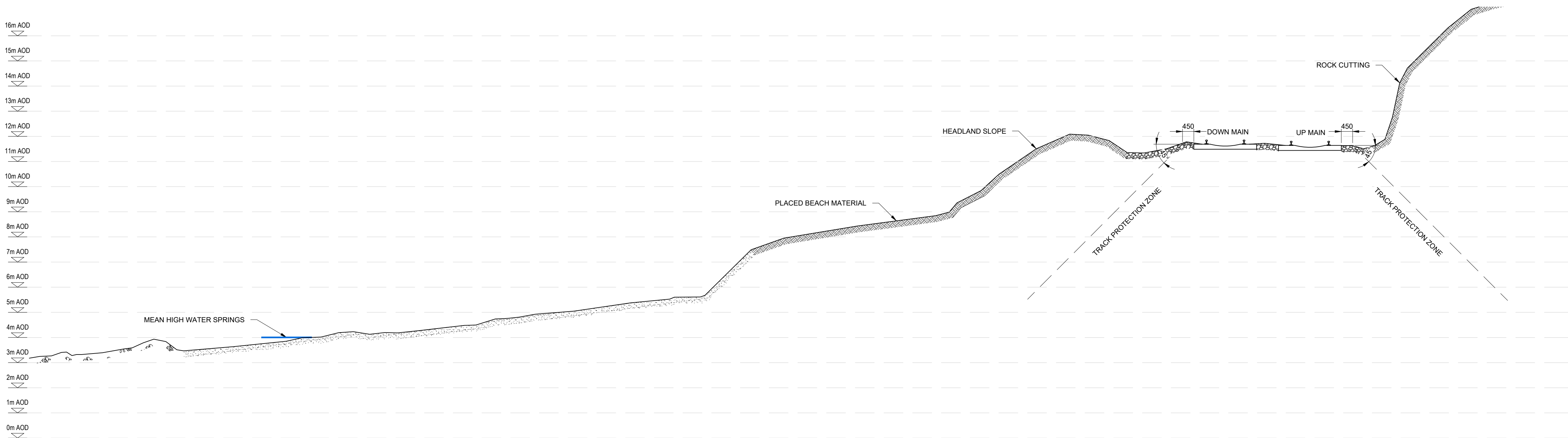
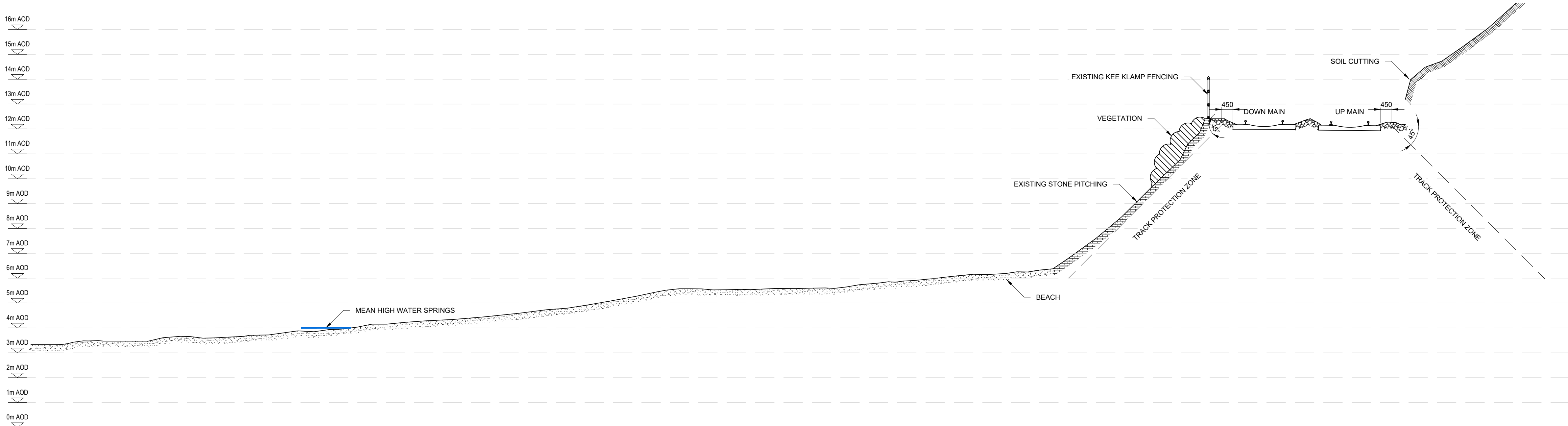
Project  
CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

Drawing Title  
SECTIONS A-A & B-B  
EXISTING

Designer	M. BOLSOVER	Signed	Date	08/12/2020
Drawn	M. WILLIAMS	Signe	Date	08/12/2020
Checked	P. STOKES	Sign	Date	08/12/2020
Approved	B. CAMPBELL	Sigr.	Date	08/12/2020

Scale(s) at A1 Sheet Size A1 594 x 841 ELR 1 age  
1:100 CBC2 2m 1118yd - 3m 0000yd

Drawing Number  
162832-WDC-DRG-CV-11002  
Revision  
C01



- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING.
  - THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-11000 TO 162832-WDC-DRG-CV-11008

- = NR PROPERTY BOUNDARY
- = EXISTING EXTENTS OF ROCK ARMOUR
- = PLACED BEACH MATERIAL
- = STONE PITCHING
- = UNPROTECTED HEADLAND
- = MEAN HIGH WATER SPRINGS

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

APPROVED FOR CONSTRUCTION

Signed by \_\_\_\_\_  
Contractor's Engineer, J. Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status  
APPROVED FOR CONSTRUCTION

Designers  
IDT - Works Delivery  
Heaton Mersey  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL

**Network Rail**

Project  
CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

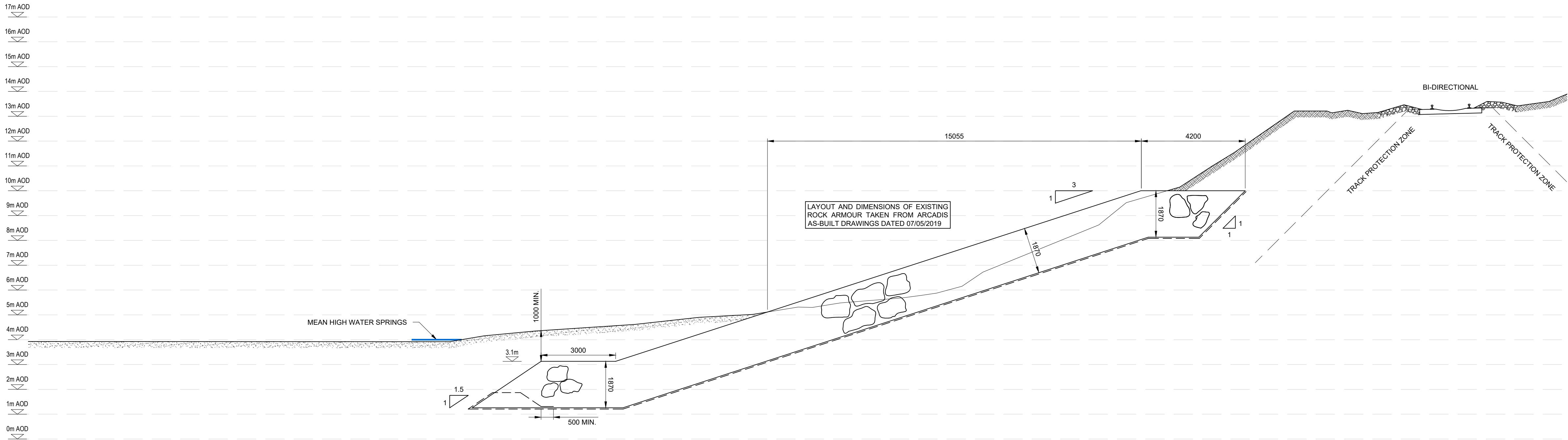
Drawing Title  
SECTIONS C-C & D-D  
EXISTING

Designer	M. BOLSOVER	Signed	Date	08/12/2020
Drawn	M. WILLIAMS	Sig	Date	08/12/2020
Checked	P. STOKES	Signed	Date	08/12/2020
Approved	B. CAMPBELL	Signer	Date	08/12/2020

Scale(s) at A1 Sheet Size A1 594 x 841 ELR & I  
1:100 CBC2 2m 1118yd - 3m 0000yd

Drawing Number  
162832-WDC-DRG-CV-11003

Revision  
C01



SECTION E-E  
EXISTING ROCK ARMOUR (INSTALLED JULY 2018)  
SCALE: 1:100

- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING.
  - THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-11000 TO 162832-WDC-DRG-CV-11008

- = NR PROPERTY BOUNDARY
- = EXISTING EXTENTS OF ROCK ARMOUR
- = PLACED BEACH MATERIAL
- = STONE PITCHING
- = UNPROTECTED HEADLAND
- = MEAN HIGH WATER SPRINGS

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

**APPROVED FOR CONSTRUCTION**

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status  
**APPROVED FOR CONSTRUCTION**

Designers  
**IDT - Works Delivery**  
**Heaton Mersey**  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL

**Network Rail**

Project  
**CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3**

Drawing Title  
**SECTION E-E  
EXISTING**

Designer	M. BOLSOVER	Signed	Date 08/12/2020
Drawn	M. WILLIAMS	Signe	Date 08/12/2020
Checked	P. STOKES	Signed	Date 08/12/2020
Approved	B. CAMPBELL	Signed	Date 08/12/2020





Scale(s) at A1 Sheet Size A1 594 x 841 ELR & Mileage  
1:100 CBC2 2m 1118yd - 3m 0000yd

Drawing Number  
**162832-WDC-DRG-CV-11004**

Revision  
**C01**



















-  = NR PROPERTY BOUNDARY  
 = PROPOSED EXTENTS OF ROCK ARMOUR  
 = MEAN HIGH WATER SPRINGS  
 = PROPOSED

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

THE DESIGNERS WOULD DRAW THE READER'S ATTENTION TO THE KEY RESIDUAL HEALTH AND SAFETY RISKS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGN, SHOWN ON THIS DRAWING, BY THE DESIGN PROCESS.

DRA REF: SIGNIFICANT DESIGNERS IDENTIFIED HAZARDS

	HAZ-01	HISTORIC MINE WORKINGS BENEATH WORKSITE
	HAZ-02	WORKING ADJACENT TO AN OPERATIONAL RAILWAY
	HAZ-03	WORKING WITH MECHANICAL PLANT
	HAZ-04	WORKING IN A TIDAL AREA
	HAZ-05	DEEP EXCAVATIONS AT TOE
	HAZ-06	SLOPE STABILITY & OPEN EXCAVATIONS
	HAZ-07	DUST AND DEBRIS
	HAZ-08	STRIKING BURIED SERVICES
	HAZ-09	HAVS
	HAZ-10	SIZING OF ARMOUR STONE
	HAZ-11	ROCK HEAD ENCOUNTERED AT SHALLOW DEPTH ON FORESHORE
	HAZ-12	WORKING IN A PROTECTED SITE
	HAZ-13	WORKING ADJACENT TO CONTROLLED WATERS
	HAZ-14	STABILITY OF EARTHWORK SLOPS ON UP SIDE

FOR MORE DETAILS ON THE HIGHLIGHTED HAZARDS REFER TO THE DESIGNER'S RISK ASSESSMENT FOR THIS PROJECT 162832/WDC/DRA/MB. "EVERYDAY" LOW RISK HAZARDS AND THOSE HAZARDS WHICH SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM.

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appd

APPROVED FOR CONSTRUCTION

Designers

**IDT - Works Delivery**  
**Heaton Mersey**  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL

**Network Rail**

The Network Rail logo consists of the company name in a bold, blue, sans-serif font, positioned above a stylized orange and yellow graphic that resembles a train or a signal.

Project

CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

Drawing Title

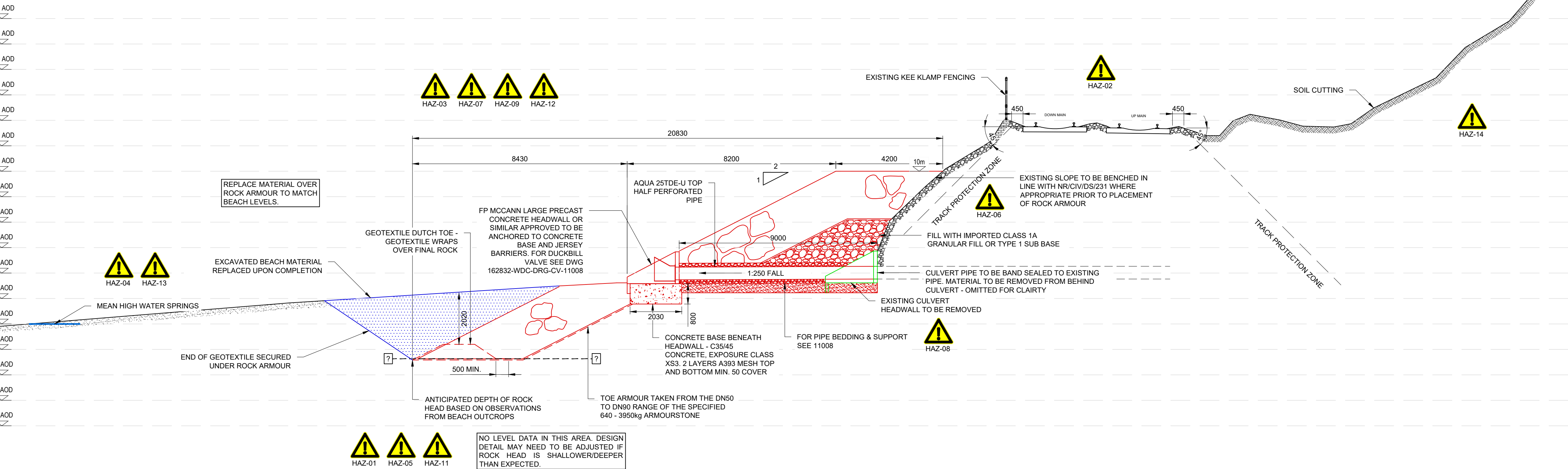
SITE OVERVIEW PROPOSED

Designer	M. BOLSOVER	Signed	Date 08/12/2020
Drawn	M. WILLIAMS	Signed	Date 08/12/2020
Checked	P. STOKES		Date 08/12/2020
Approved	B. CAMPBELL	Signed	Date 08/12/2020

Scale(s) at A1	Sheet Size A1 594 x 841	ELR & Image
1:1000		CBC2 2m 1118yd - 3m 0000yd

162832-WDC-DRG-CV-11005	C01
-------------------------	-----





TOTAL ROCK ARMOUR FOOTPRINT FOR THIS SECTION: 2621m<sup>2</sup>

NO LEVEL DATA IN THIS AREA. DESIGN  
DETAIL MAY NEED TO BE ADJUSTED IF  
ROCK HEAD IS SHALLOWER/DEEPER  
THAN EXPECTED.

SECTION F-F 2m 1550y  
SCALE: 1:100


APPROVED FOR CONSTRUCTION


Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)


Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

Legend/Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-10000 TO 162832-WDC-DRG-CV-11008

 = MEAN HIGH WATER SPRINGS












 = PROPOSED

 = REMOVED

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

### IMPORTANT CDM / H&S NOTE

THE DESIGNERS WOULD DRAW THE READER'S ATTENTION TO THE KEY RESIDUAL HEALTH AND SAFETY RISKS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGN, SHOWN ON THIS DRAWING, BY THE DESIGN PROCESS.

DRA REF:	SIGNIFICANT DESIGNERS IDENTIFIED HAZARDS
 HAZ-01	HISTORIC MINE WORKINGS BENEATH WORKSITE
 HAZ-02	WORKING ADJACENT TO AN OPERATIONAL RAILWAY
 HAZ-03	WORKING WITH MECHANICAL PLANT
 HAZ-04	WORKING IN A TIDAL AREA
 HAZ-05	DEEP EXCAVATIONS AT TOE
 HAZ-06	SLOPE STABILITY & OPEN EXCAVATIONS
 HAZ-07	DUST AND DEBRIS
 HAZ-08	STRIKING BURIED SERVICES
 HAZ-09	HAVS
 HAZ-10	SIZING OF ARMOUR STONE
 HAZ-11	ROCK HEAD ENCOUNTERED AT SHALLOW DEPTH ON FORESHORE
 HAZ-12	WORKING IN A PROTECTED SITE
 HAZ-13	WORKING ADJACENT TO CONTROLLED WATERS
 HAZ-14	STABILITY OF EARTHWORK SLOPS ON UP SIDE

FOR MORE DETAILS ON THE HIGHLIGHTED HAZARDS REFER TO THE DESIGNER'S RISK ASSESSMENT FOR THIS PROJECT 162832/WDC/DRA/MB. "EVERYDAY" LOW RISK HAZARDS AND THOSE HAZARDS WHICH SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM.

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status **APPROVED FOR CONSTRUCTION**

Designers

**IDT - Works Delivery**  
**Heaton Mersey**  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL

**Network Rail**

The Network Rail logo, featuring the company name in a bold, blue, sans-serif font above a stylized orange and white graphic that resembles a train or a stylized 'N'.

Project

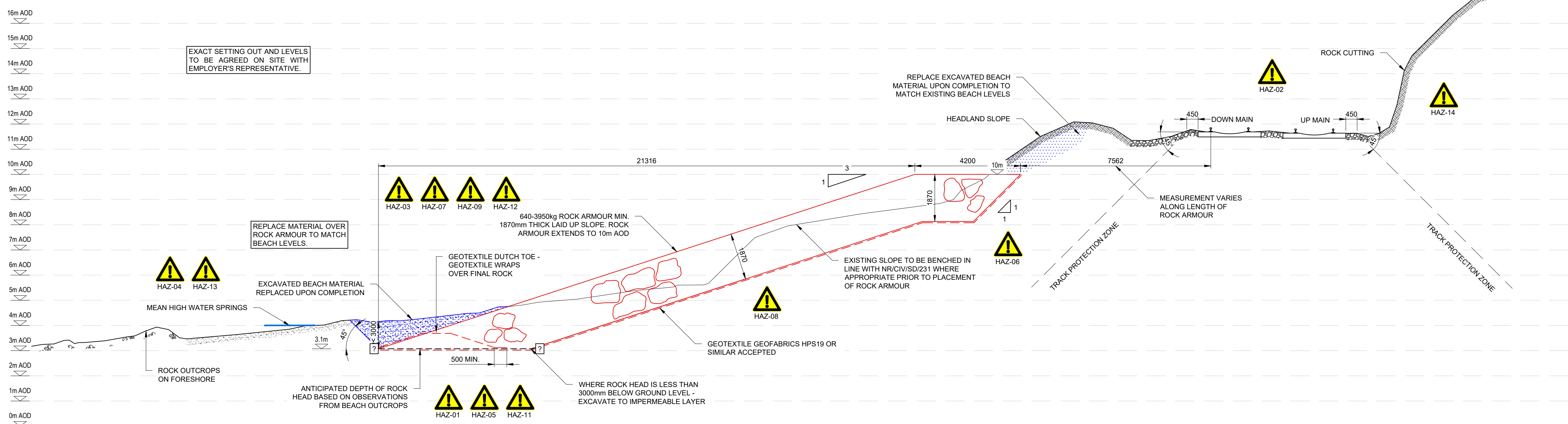
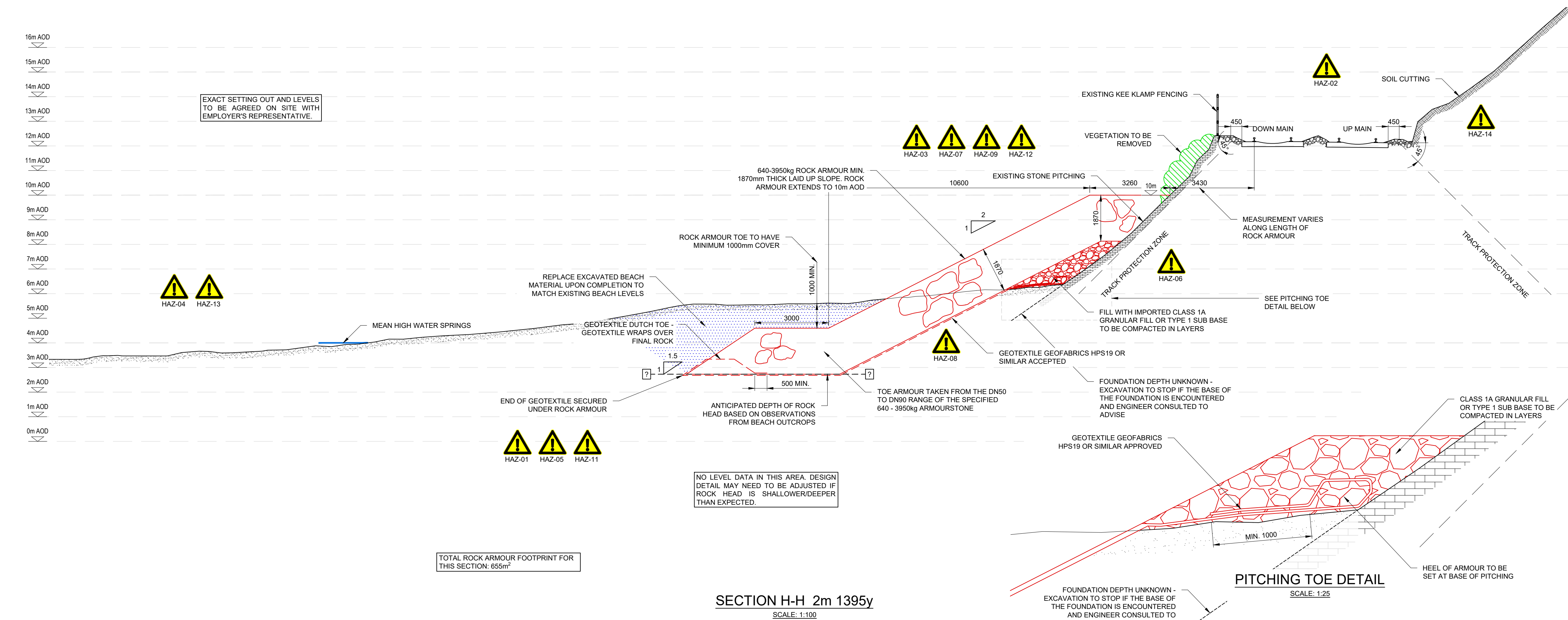
CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

Drawing Title

SECTIONS F-F & G-G  
PROPOSED

Designer	M. BOLSOVER	Signed	Date	08/12/2020
Drawn	M. WILLIAMS		Date	08/12/2020
Checked	P. STOKES	Sig	Date	08/12/2020
Approved	B. CAMPBELL	Signed	Date	08/12/2020
Scale(s) at A1	Sheet Size A1 594 x 841	ELR & l... -		
1:100, 1:25		CBC2 2m 1118yd - 3m 0000yd		
Drawing Number	162832-WDC-DRG-CV-11006			Revision
				C01



**ROCK ARMOUR GRADING SPECIFICATION**

EXTREME UPPER LIMIT	7123 - 10381kg
NOMINAL UPPER LIMIT	3209 - 4676kg
MEAN	2125 - 3097kg
NOMINAL LOWER LIMIT	521 - 760kg
EXTREME LOWER LIMIT	305 - 444kg

5000 1000 0 5000 10000  
ORIGINAL SCALE AT A1 - 1:100  
ALL DIMENSIONS IN MILLIMETRES

- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING.
  - THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
162832-WDC-DRG-CV-11000 TO 162832-WDC-DRG-CV-11008

— = MEAN HIGH WATER SPRINGS

— = PROPOSED

— = MODIFIED/MOVED

HIGHEST ASTRONOMICAL TIDE (HAT)	8.9m CD	4.7m ODN
MEAN HIGH WATER SPRINGS (MHWS)	8.0m CD	3.8m ODN
MEAN HIGH WATER NEAPS (MHWN)	6.3m CD	2.1m ODN
MEAN LOW WATER NEAPS (MLWN)	2.4m CD	-1.8m ODN
MEAN LOW WATER SPRINGS (MLWS)	1.0m CD	-3.2m ODN
LOWEST ASTRONOMICAL TIDE (LAT)	0.0m CD	-4.2m ODN

**IMPORTANT CDM / H&S NOTE**

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DRA REF: SIGNIFICANT DESIGNERS IDENTIFIED HAZARDS

HAZ-01	HISTORIC MINE WORKINGS BENEATH WORKSITE
HAZ-02	WORKING ADJACENT TO AN OPERATIONAL RAILWAY
HAZ-03	WORKING WITH MECHANICAL PLANT
HAZ-04	WORKING IN A TIDAL AREA
HAZ-05	DEEP EXCAVATIONS AT TOE
HAZ-06	SLOPE STABILITY & OPEN EXCAVATIONS
HAZ-07	DUST AND DEBRIS
HAZ-08	STRIKING BURIED SERVICES
HAZ-09	HAVS
HAZ-10	SIZING OF ARMOUR STONE
HAZ-11	ROCK HEAD ENCOUNTERED AT SHALLOW DEPTH ON FORESHORE
HAZ-12	WORKING IN A PROTECTED SITE
HAZ-13	WORKING ADJACENT TO CONTROLLED WATERS
HAZ-14	STABILITY OF EARTHWORK SLOPS ON UP SIDE

FOR MORE DETAILS ON THE HIGHLIGHTED HAZARDS REFER TO THE DESIGNER'S RISK ASSESSMENT FOR THIS PROJECT 162832WDC/DRA/MB. 'EVERYDAY' LOW RISK HAZARDS AND THOSE HAZARDS WHICH SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM.

C02	08/12/20	AFC	MW	MB	PS
B02	04/12/20	F002/003	MW	MB	PS
B01	13/11/20	F002/003	MW	MB	PS
A02	13/05/20	F001	MW	MB	PS
A01	17/02/20	F001	MW	MB	PS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status APPROVED FOR CONSTRUCTION

Designers  
IDT - Works Delivery  
Heaton Mersey  
Unit C1  
The Embankment  
Heaton Mersey, Stockport  
SK4 3GL



Project  
CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

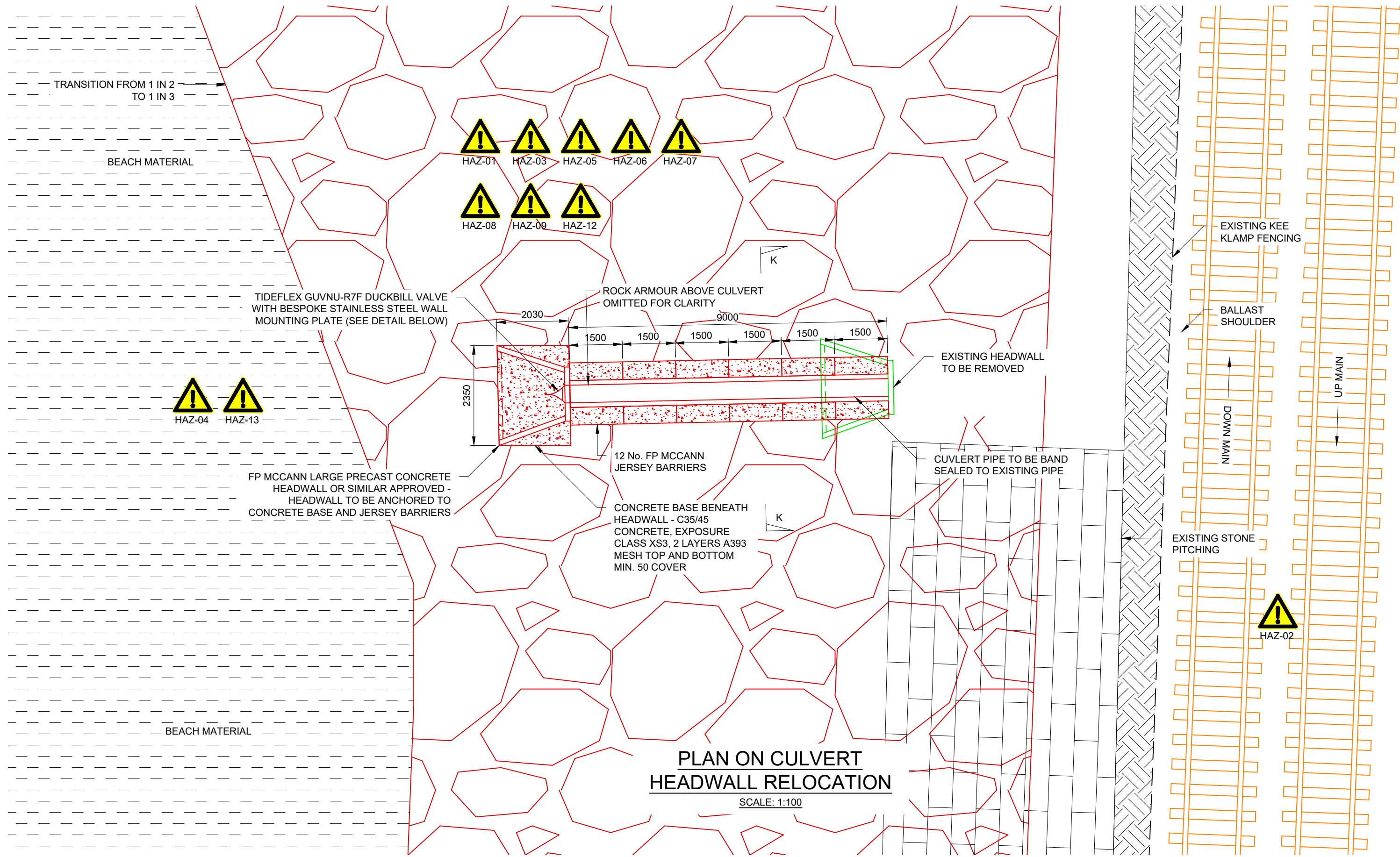
Drawing Title  
SECTION H-H & J-J  
PROPOSED

Designer	M. BOLSOVER	Signed	Date	08/12/2020
Drawn	M. WILLIAMS	Signed	Date	08/12/2020
Checked	P. STOKES	Sign	Date	08/12/2020
Approved	B. CAMPBELL	Signer	Date	08/12/2020

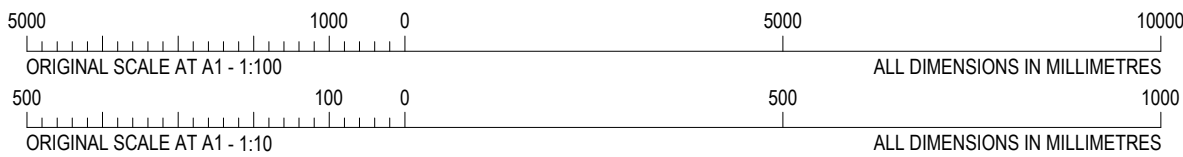
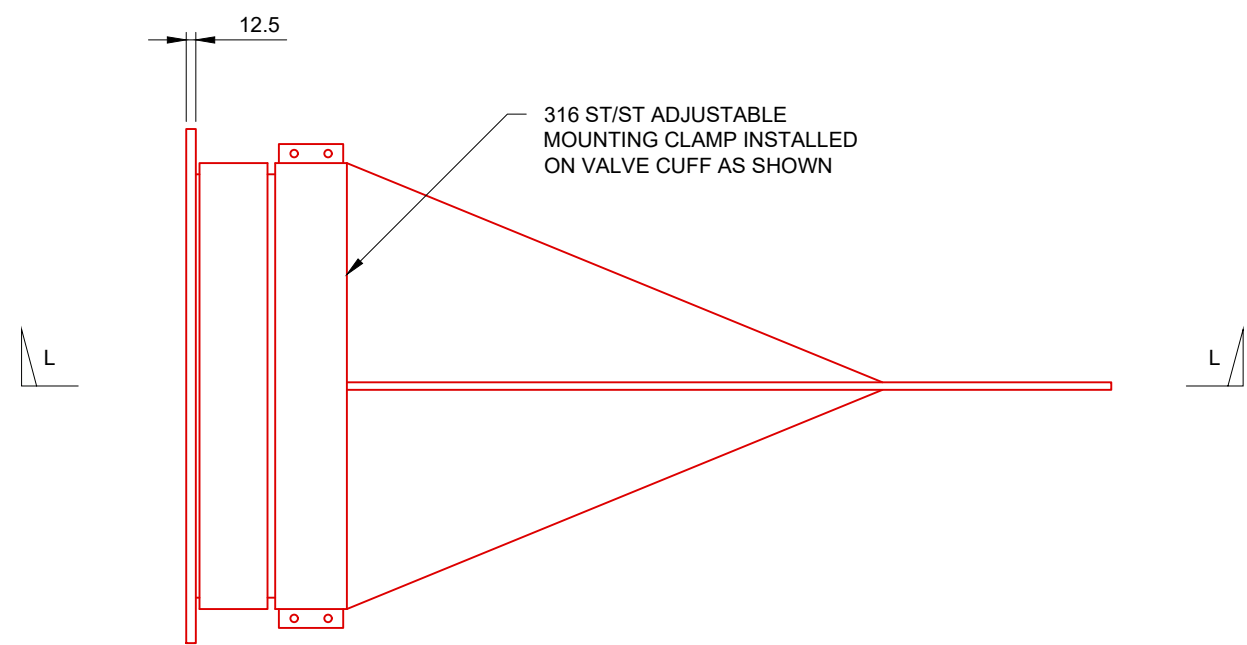
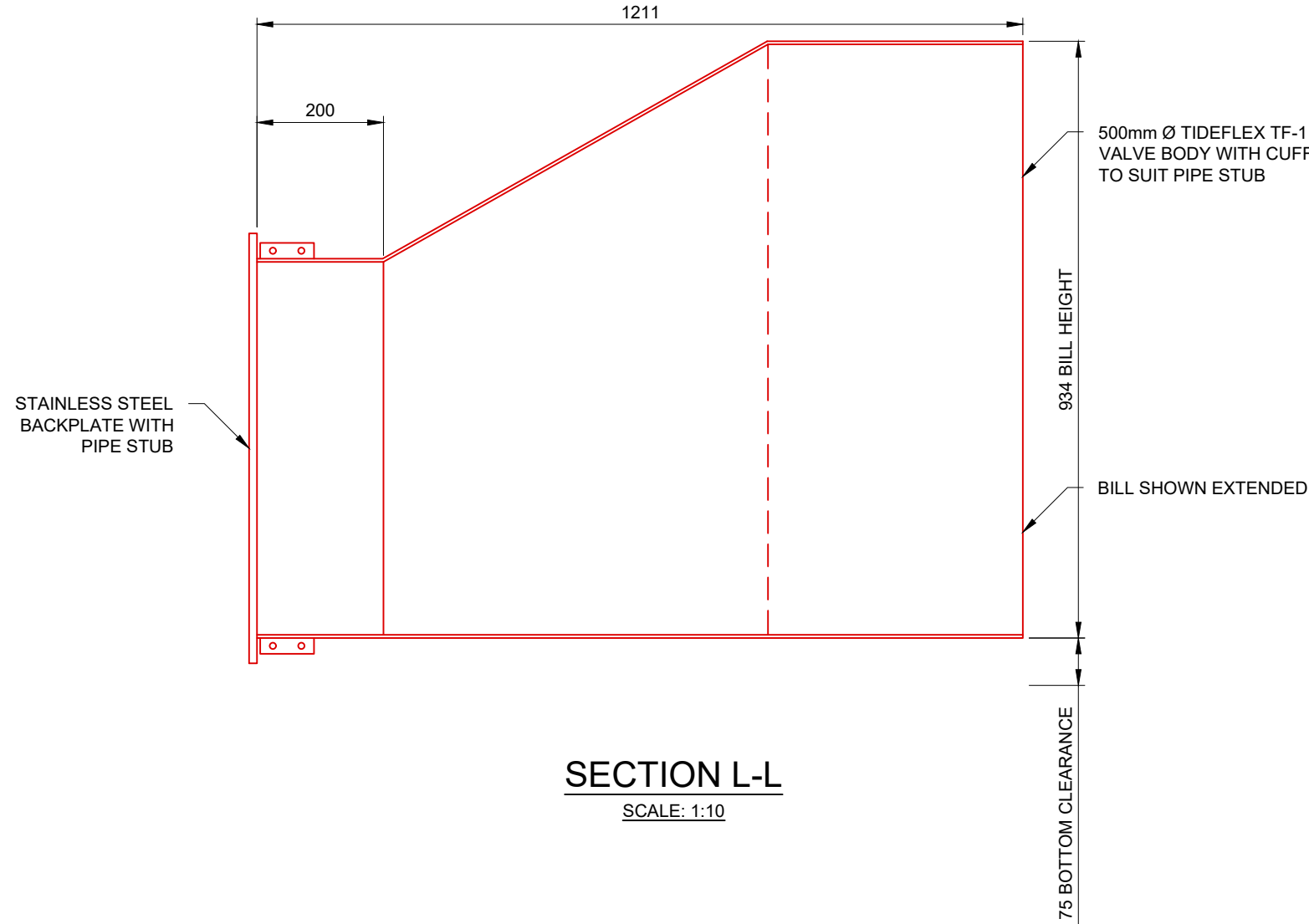
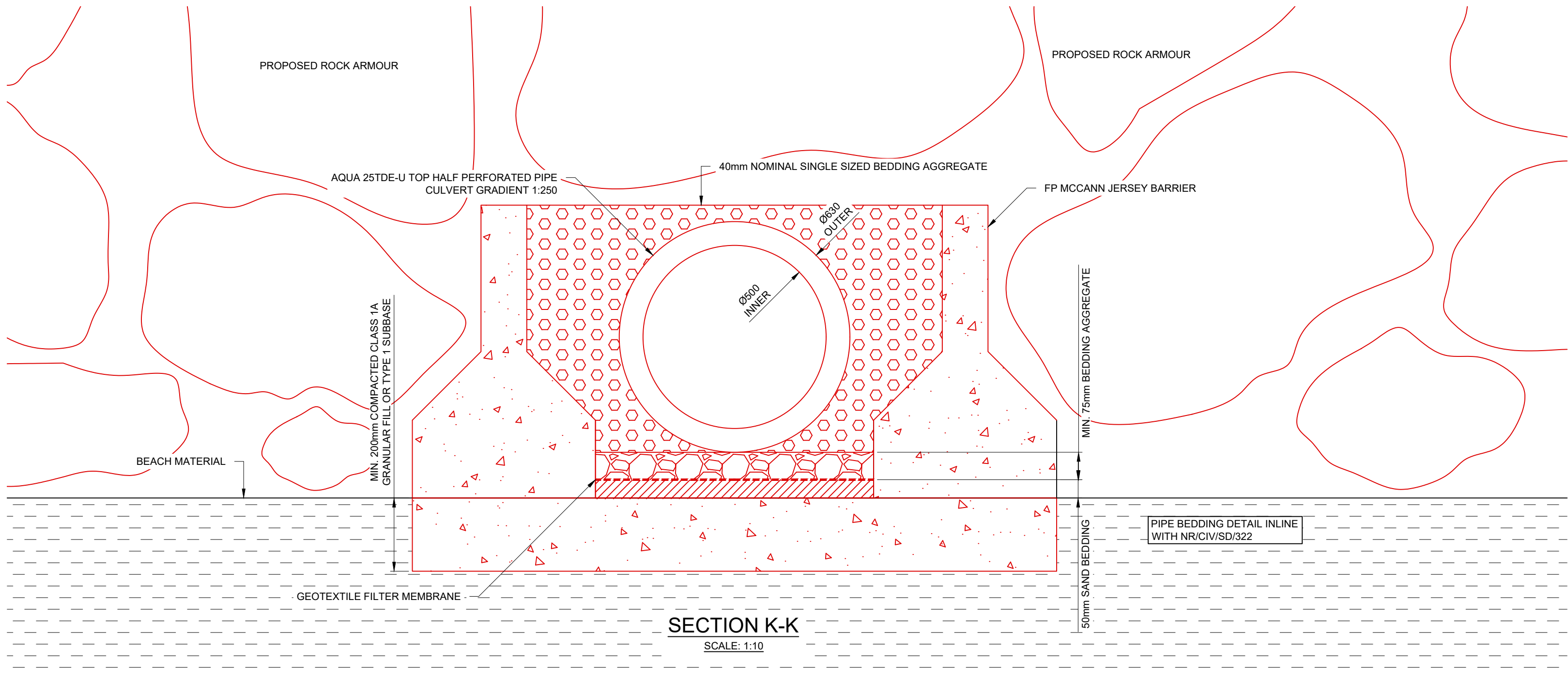
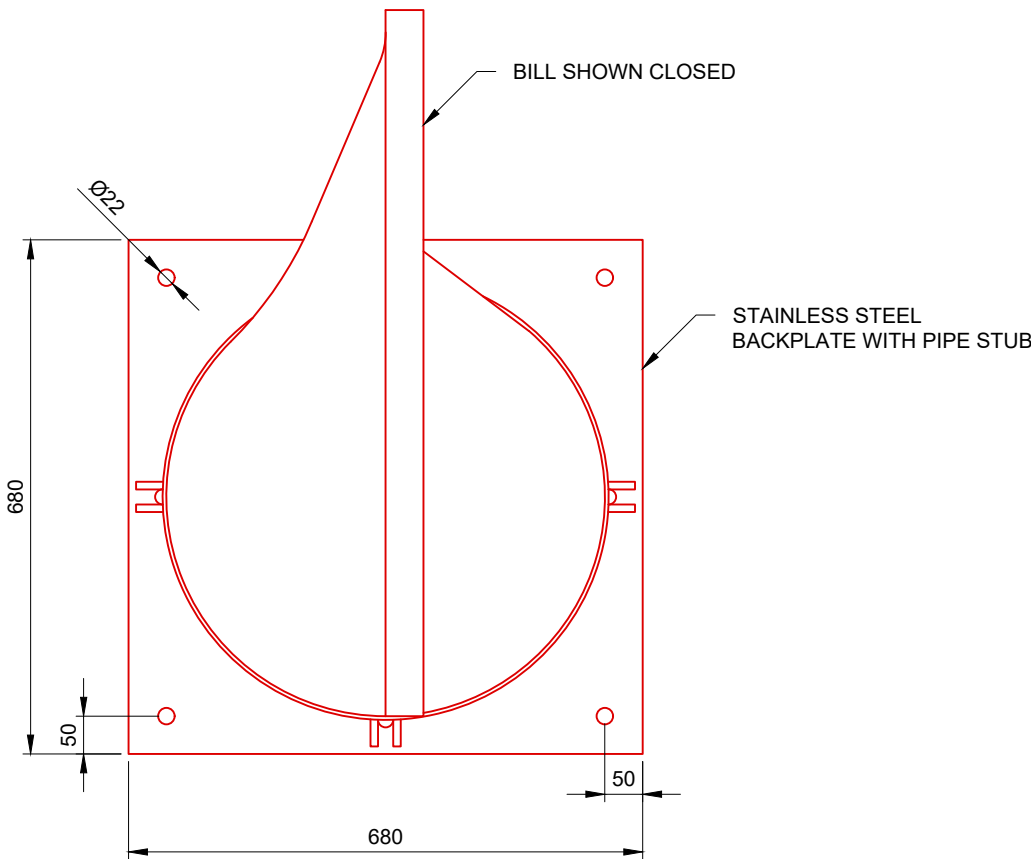
Scale(s) at A1 Sheet Size A1 594 x 841 ELR &  
1:100 CBC2 2m 1118yd - 3m 0000yd

Drawing Number 162832-WDC-DRG-CV-11007  
Revision C01





- CONSTRUCTION SEQUENCE:
1. MONITORING TO BE PUT IN PLACE.
  2. REMOVAL OF MATERIAL DIRECTLY BEHIND EXISTING HEADWALL.
  3. REMOVAL OF EXISTING CULVERT HEADWALL.
  4. INSTALLATION OF CONCRETE BASE FOR HEADWALL AND COMPACTED FILL.
  5. INSTALLATION OF JERSEY BARRIERS.
  6. PLACING OF ROCK ARMOUR AROUND JERSEY BARRIERS FOR SUPPORT.
  7. INSTALLATION OF CULVERT PIPE AND BEDDING DETAIL.
  8. INSTALLATION OF FP MCCANN LARGE PRECAST CONCRETE HEADWALL.
  9. HEADWALL TO BE ANCHORED TO CONCRETE BASE AND JERSEY BARRIERS.
  10. PLACING OF ROCK ARMOUR ABOVE CULVERT PIPE.
  11. INSTALLATION OF TIDEFLEX DUCKBILL VALVE TO HEADWALL OR SIMILAR APPROVED.



- Legend/Notes
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  2. DO NOT SCALE FROM THIS DRAWING.
  3. THIS DRAWING IS BASED ON AVAILABLE NETWORK RAIL RECORD INFORMATION.
  4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:  
147666-WDC-DRG-CV-11000 TO 147666-WDC-DRG-CV-11007

APPROVED FOR CONSTRUCTION

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Design Phase)

Signed by \_\_\_\_\_  
Contractor's Engineering Manager (Construction Phase)

IMPORTANT CDM / H&S NOTE

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IDT - Works Delivery  
Heaton Mersey  
Unit C1  
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SK4 3GL



Project

CBC2 - W21050 PARTON TO HARRINGTON  
SEA WALLS NO. 3

Drawing Title

CULVERT 15Q PROPOSED CULVERT  
EXTENSION & HEADWALL RELOCATION  
DETAILS

Designer	M. BOLSOVER	Signer	_____	Date	08/12/2020
Drawn	M. WILLIAMS	Signer	_____	Date	08/12/2020
Checked	P. STOKES	Signer	_____	Date	08/12/2020
Approved	B. CAMPBELL	Signer	_____	Date	08/12/2020

Scale(s) at A1 Sheet Size A1 594 x 841 ELR & Mileage  
1:10, 1:100 CBC2 2m 1118yd - 3m 0000yd

Drawing Number  
162832-WDC-DRG-CV-11008  
Revision  
C01