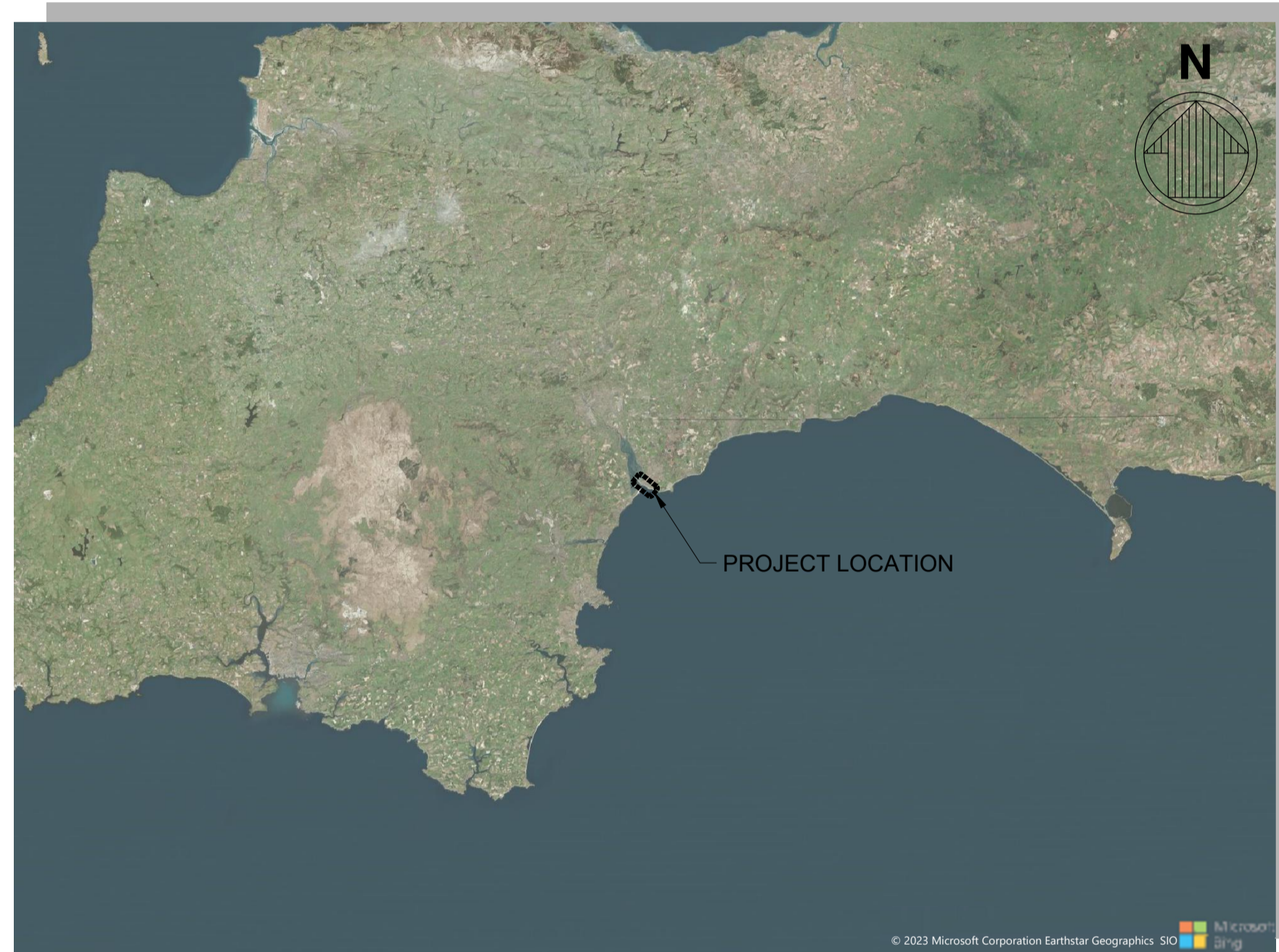


# EXMOUTH WALL URGENT WORKS -PHASE 1

## EXMOUTH, DEVON



**VICINITY MAP**  
NTS



**LOCATION MAP**  
NTS



CD Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT
			2024-03-12	

**EXMOUTH WALL URGENT WORKS  
- PHASE 1**

**COVER SHEET AND VICINITY MAP**

Designed by: J.WATTS	Date: 2024-02-23	Rev.:	CD
Dwn by: P.VASS	MAN Project No: 232659		
Chd by: H.RUSHTON	Drawing code:		
Reviewed by: H.HALL	Drawing Scale: AS NOTED		
Submitted by: MOFFATT & NICHOL	Plot scale: 1:1 (Metric D)		

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UNITED KINGDOM  
T: +44 (0) 1252 22617

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CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

Sheet Reference No.  
**G-001**  
INDEX: 1 OF 20

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CD	Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
				2024-03-12		

DRAWING LIST TABLE		
INDEX No.	SHEET NUMBER	SHEET TITLE
1	G-001	COVER SHEET AND VICINITY MAP
2	G-002	DRAWING INDEX
3	G-003	ABBREVIATIONS, LEGENDS AND SYMBOLS
4	G-101	GENERAL ARRANGEMENT
5	G-102	LAYOUT PLAN
6	G-103	ESPLANADE PLAN
7	G-501	DETAILS - SHEET 1
8	G-502	DETAILS - SHEET 2
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10	G-504	DETAILS - SHEET 4
11	H-101	HAZARD PLAN - PAS 128 SURVEY
12	H-102	HAZARD PLAN - UTILITY SURVEYS
13	B-101	BOREHOLE LAYOUT PLAN
14	S-001	STRUCTURAL GENERAL NOTES
15	S-101	ANCHORED SHEET PILE WALL LAYOUT PLAN
16	S-501	ANCHORED SHEET PILE WALL - TYPICAL SECTION AND DETAILS
17	S-502	ANCHORED SHEET PILE WALL - TIE-IN DETAILS
18	S-503	ANCHORED SHEET PILE WALL - HANDRAIL DETAILS
19	S-504	ANCHORED SHEET PILE WALL - CLADDING DETAILS
20	SD101	EXISTING WALL DEMOLITION PLAN

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**EXMOUTH WALL URGENT WORKS  
- PHASE 1**

**DRAWING INDEX**

Designed by: J.WATTS	Date: 2024-02-23	Rev. CD
Dwn by: P.VASS	MAN Project No: 232659	
Chd by: H.RUSHTON	Drawing code:	
Reviewed by: H.HALL	Drawing Scale: AS NOTED	
Submitted by: MOFFATT & NICHOL	Plot scale: 1:1 (Metric D)	

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1 44 (5) 1252 22617

Sheet Reference No.  
**G-002**

INDEX: 2 OF 20

CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

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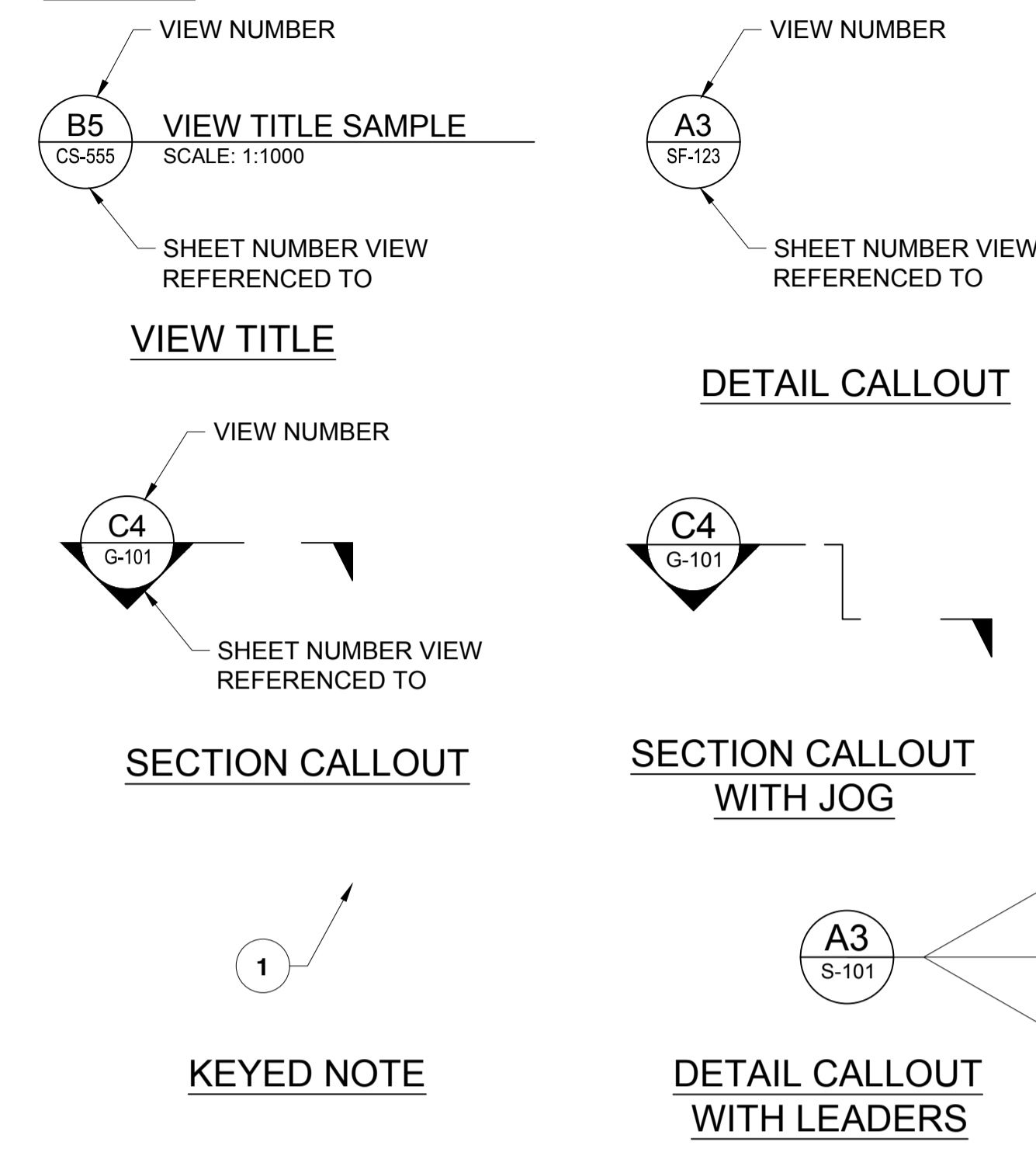
**ABBREVIATIONS**

A	AIR, AMPERE or AMMETER
AB	ANCHOR BOLT or AGGREGATE BASE
ABAND	ABANDONED
ABBR	ABBREVIATION
ABUT	ABUTMENT
ABV	ABOVE
AC	ASPHALT CONCRETE, AIR COMPRESSOR or ALTERNATING CURRENT
A/C	AIR CONDITIONING
ACP	ASBESTOS CEMENT PIPE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALUM	ALUMINUM
AMPS	AMPERES
APPROX	APPROXIMATE
BCR	BEGIN CURB RETURN
BD	BOARD
BF	BLIND FLANGE
BL	BASELINE
BLDG	BUILDING
BLKG	BLOCKOUT
BM	BENCH MARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BR	BRASS
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK
C	CONDUIT or CONTROL
CA	CEMENT ASBESTOS or COMPRESSED AIR
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
C&G	CURB AND GUTTER
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT or CONDUIT ONLY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCTION
CONT	CONTINUOUS or CONTINUE
COORD	COORDINATE
CT	COOPER TUBE, CERAMIC TILE or CURRENT TRANSFORMER
CU	CUBIC or COPPER
CV	CHECK VALVE
CW	COLD WATER
D	DRAIN
DACS	DRAWING AREA COORDINATE SYSTEM
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIM	DIMENSION
DN	DOWN
DO	DITTO
DR	DOOR
DWGS	DRAWINGS
E	EAST
EA	EACH
EB	END BRIDGE
EC	END CURVE
ECR	END CURB RETURN
EF	EACH FACE
EG	EXISTING GROUND
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
EPR	ETHYLENE-PROPYLENE-RUBBER
EQUIP	EQUIPMENT
ES	EACH SIDE
EVC	END VERTICAL CURVE
EW	EACH WAY or EXISTING WATER
EXIST.	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FRAME, FLANGE or FUEL
FA	FIRE ALARM
FD	FLOOR DRAIN
FDR	FEEDER
FF	FINISH FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINAL GRADE, FINISHED GRADE or FINISHED GROUND
FIN	FINISH
FL	FLOW LINE
FLOUR	FLUORESCENT
FLR	FLOOR
FLRNG	FLOORING
FLSHNG	FLASHING
FND	FOUNDATION
FR	FUEL RETURN
FS	FINISHED SURFACE or FUEL SUPPLY
FTG	FOOTING
FU	FUSE
G	GAS
GA	GAGE
GALV	GALVANIZED
GB	GRADE BREAK
GFI	GROUND FAULT INTERRUPTER
GI	GALVANIZED IRON

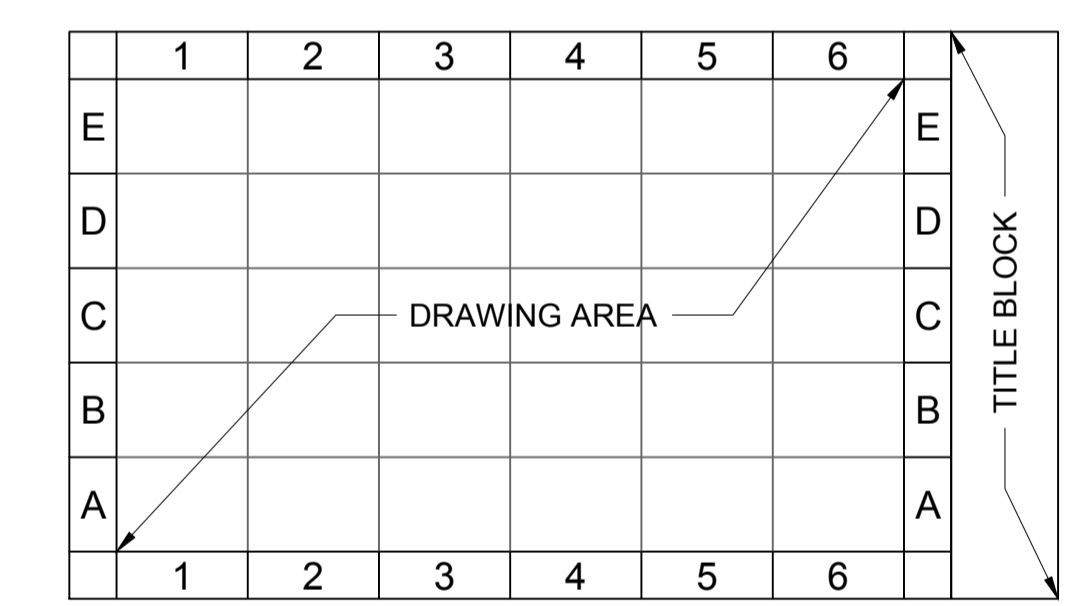
GL	GLASS
GND	GROUND
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GYP	GYP SUM
H	HEIGHT
HB	HOSE BIBB
HD	HEAD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HORSE POWER or HIGH PRESSURE
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HTR	HEATER
HW	HOT WATER
HZ	HERTZ
ID	INSIDE DIAMETER
IN.	INCHES
INS	INSULATOR
INT	INTERIOR
INV	INVERT
IPS	INSIDE PIPE SIZE
JB	JUNCTION BOX
JS	JUNCTION STRUCTURE
JT	JOINT
KSI	KIPS PER SQUARE INCH
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWHM	KILOWATT HOUR METER
L	LENGTH
LA	LIGHTING ARRESTOR
LAM	LAMINATE
LAT	LATERAL
LB	POUND
LD	LOCAL DEPRESSION
LF	LINEAR or LINEAL FEET
LG	LONG
LT	LIGHT
LTG	LIGHTING
M	MOTOR
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MET	METAL
MFTR	MANUFACTURE or MANUFACTURER
MH	MANHOLE
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MON	MONUMENT
MSL	MEAN SEA LEVEL
MTD	MOUNTED
N	NORTH
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO.	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OBS	OBSTRUCTION
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GRADE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPRS	USERS
OS	OUTSIDE
OW	OILY WASTE
P	POWER, POLE, PUMP or PIPE
PB	PULL BOX
PC	PIPE CLAMP, PRECAST CONCRETE or POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUND PER CUBIC FOOT
PG	PRESSURE GAUGE
PI	POINT OF INTERSECTION
PL	PLATE or PROPERTY LINE
PLAS	PLASTIC or PLASTER
PM	POWER MOUND or METER
PNL	PANEL
PCC	POINT OF CONNECTION or POINT ON CURVE
POT	POINT ON TANGENT
POV	POINT ON VERTICAL CURVE
PRC	POINT OF REVERSE CURVE
PRESS	PRESSURE
PRI	PRIMARY
PRTTN	PARTITION
PRVC	POINT OF REVERSE VERTICAL CURVE
PS	PIPE SUPPORT or PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POINT or POINT OF TANGENCY
PTD	PAINTED
P&T	PRESSURE AND TEMPERATURE
PV	PLUG VALVE
PVC	POINT OF VERTICAL CURVATURE or POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
PWR	POWER

R	RADIUS or RIGID
RAD	RADIUS or RADIAL
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECPT	RECEPTACLE
RED	REDUCER
REINF	REINFORCING
REQD	REQUIRED
RET	RETAINING
RM	ROOM
ROW	RIGHT OF WAY
RPM	ROTATION PER MINUTE
RR	RAILROAD
RT	RIGHT
RUB	RUBBER
RV	RELEASE VALVE
RWL	RAIN WATER LEADER
S	SEWER, SLOPE or SOUTH
SAN	SANITARY
SB	SWAY BRACE
SCH	SCHEDULE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SEC	SECONDARY
SECT	SECTION
SHLDR	SHOULDER
SHT	SHEET
SIM	SIMILAR
SP	SPARE
SPA	SPACE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL or SANITARY SEWER
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE or STRUCTURAL
SUBSTA	SUBSTATION
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
T	TANGENT
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TELE	TELEPHONE
TEMP	TEMPERATURE or TEMPORARY
THD	THREAD
THRU	THROUGH
TLT	TOILET
TOS	TOP OF STEEL
TOT	TOTAL
TRANSV	TRANSVERSE
TRNSFM	TRANSFORMER
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLT, VENT or VOLTMETER
VAR	VARIABLES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VS	VOLTMETER SWITCH
VTR	VENT THROUGH ROOF
W	WATER, WEST, WIDE or WIRE
WD	WOOD
WP	WEATHERPROOF or WATERPROOF
WT	WEIGHT
WWF	WELDED WIRE FABRIC

**LEGEND**



\* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM; "VIEW NO./SHEET NO." (EG A1/CS-5001)



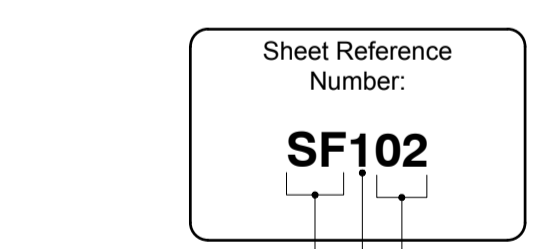
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SHEET TYPE DESIGNATORS	
0	GENERAL (COVER SHEET, LEGEND, NOTES)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT. OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	USER DEFINED
8	USER DEFINED
9	3D ISOMETRIC

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL WORKS	W
CIVIL	C
STRUCTURAL	S
MECHANICAL	M
ELECTRICAL	E
OTHER DISCIPLINES	X

REVISION NUMBERING	
A00, A01...	PRE-BID SUBMITTALS
B00, B0A...	BID SUBMITTALS
000, 001...	CONSTRUCTION SUBMITTALS

SECONDARY DESIGNATORS	
DEMOLITION	D
GENERAL	G
SUBSTRUCTURE	B
FRAMING	F
COMPONENT	C
SITE	S



**SHEET NUMBERING**

CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



DT	Appr.
2024-03-12	Date
ISSUED FOR CONSTRUCTION	Description
CD	Mark

**EXMOUTH WALL URGENT WORKS - PHASE 1**

**ABBREVIATIONS, LEGENDS AND SYMBOLS**

Designed by:	J. WATTS	Date:	2024-02-23	Rev.	CO
Dwn by:	P. VASS	MAN Project No.:	232659		
Chd by:	H. RUSHTON	Drawing code:			
Reviewed by:	H. HALL	Drawing Scale:	AS NOTED		
Submitted by:	MOFFATT & NICHOL	Plot scale:	1:1 (Metric D)		

3102 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T +44 (0) 1526 226617

**moffatt & nichol**

Sheet Reference No.  
**G-003**

INDEX: 3 OF 20

- NOTES**
- TOPOGRAPHICAL SURVEY UNDERTAKEN BY MERRETT SURVEY LIMITED IN NOVEMBER 2023.
  - TIDE INFORMATION:  
MHWS = 2.16m OD  
MLWS = -1.94m OD
  - CHART DATUM TO ORDANCE DATUM CONVERSION = -2.44

CD	Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
				2024-03-12		

- LEGEND**
- BOUNDARIES OF THE SITE
  - PHASE 1 WORKS
  - PHASE 2 WORKS
  - MHWS
  - MLWS

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- SSSI & SPA - NOISE IMPACTS
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH
- ACCESS RAMP - RESTRICTED ACCESS
- DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS
- INTERTIDAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

N/A

**DEMOLITION**

N/A

**EXMOUTH WALL URGENT WORKS - PHASE 1**

**GENERAL ARRANGEMENT**

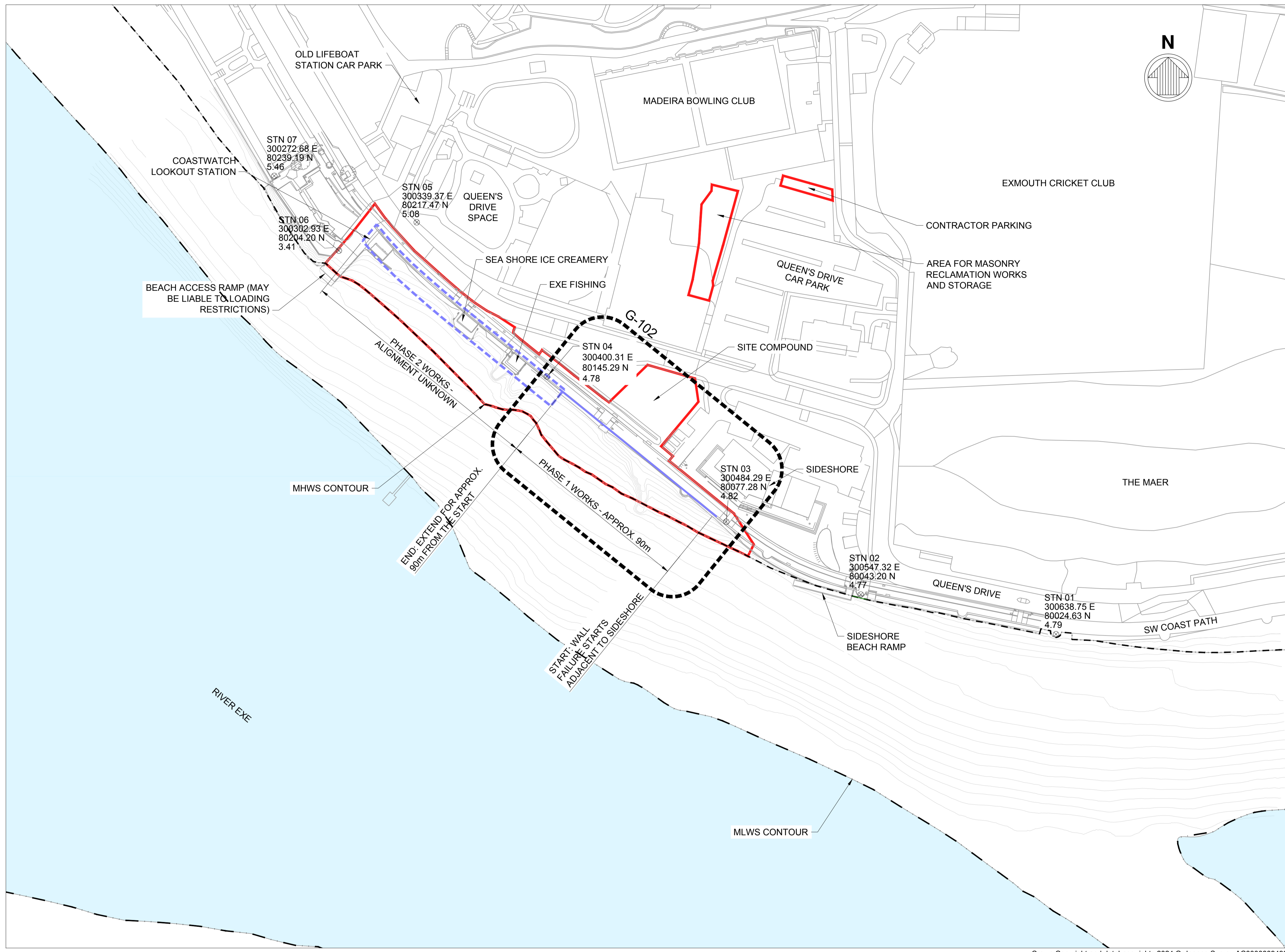
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2024-02-23			232859		1:1		(Metric D)

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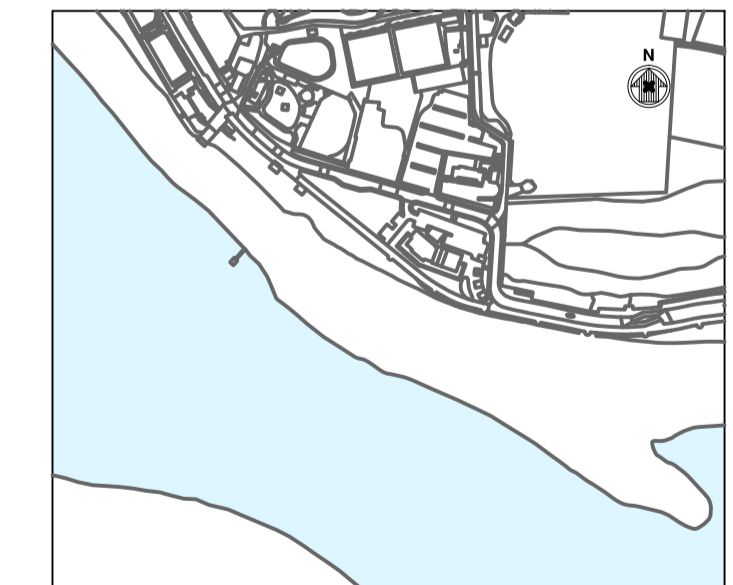
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Sheet Reference No.  
**G-101**  
INDEX: 4 OF 20

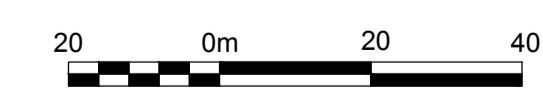


**PLAN**  
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**KEY PLAN**



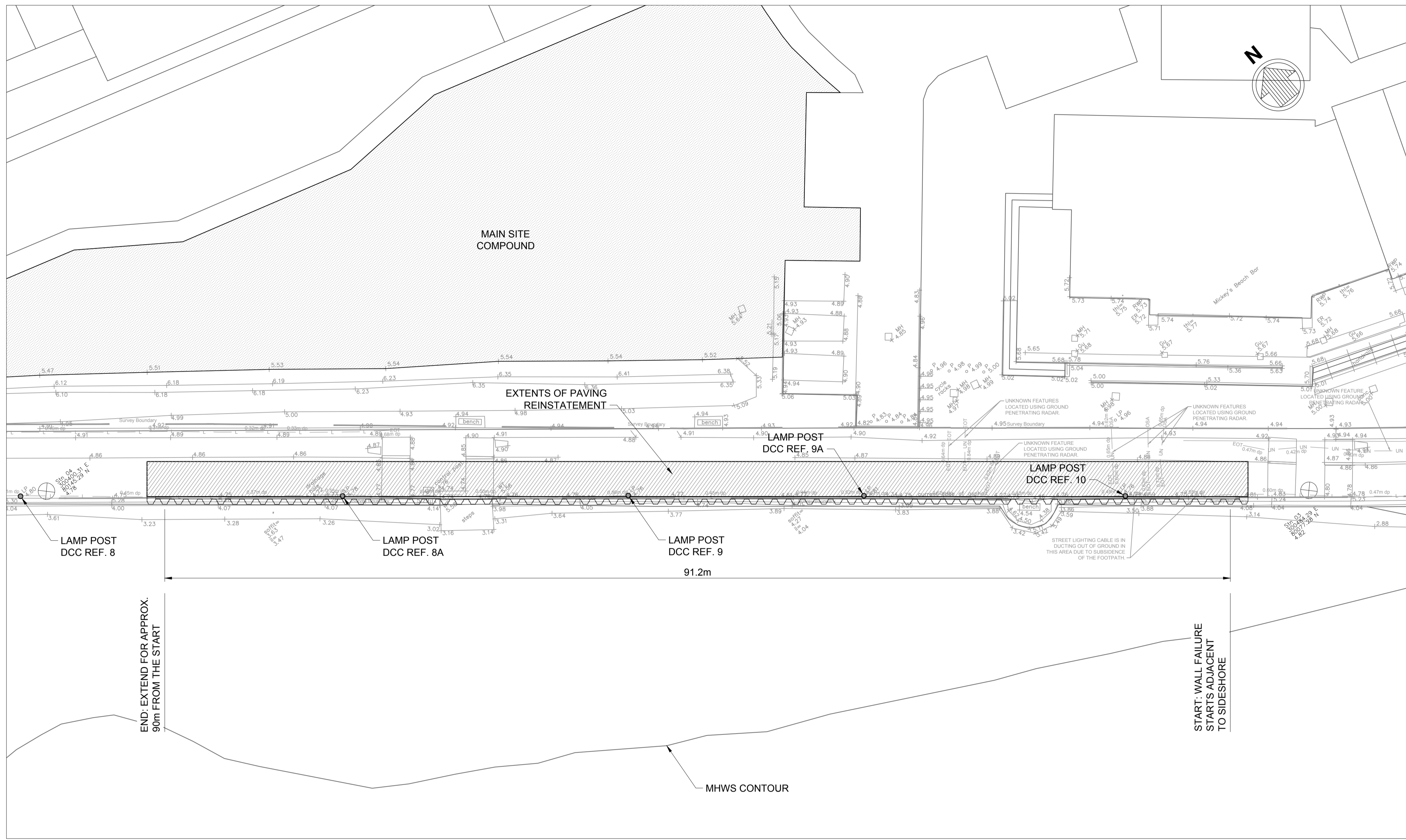
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CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

- NOTES**
- TOPOGRAPHICAL SURVEY UNDERTAKEN BY MERRETT SURVEY LIMITED IN NOVEMBER 2023.
  - LIGHTING COLUMNS (5No.) TO BE REMOVED PRIOR TO CONSTRUCTION AND REINSTATED. SEE DRAWING G-103.
  - COORDINATE SYSTEM & DATUM ADJUSTED TO STN 07 ESTABLISHED BY AP LAND SURVEYS IN FEB 2015 BY MERRIT SURVEY LIMITED IN 2023.

CD	ISSUED FOR CONSTRUCTION	Description	Date	Appr.
			2024-03-12	DT

- LEGEND**
- LIGHTING COLUMN
  - ▨ EXTENT OF PAVING REINSTATEMENT



**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

CONSTRUCTION
<ul style="list-style-type: none"> <li>EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL</li> <li>HISTORIC UXO</li> <li>WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE</li> <li>SSSI &amp; SPA - NOISE IMPACTS</li> <li>WORKING AT HEIGHT - LOW BEACH LEVELS</li> <li>PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH</li> <li>DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS</li> <li>INTERMITTENT WORKING - DEMOLITION AND ANCHORING ACTIVITIES</li> </ul>
MAINTENANCE
N/A
DEMOLITION
N/A

EXMOUTH WALL URGENT WORKS - PHASE 1

LAYOUT PLAN

Designed by:	J. WATTS	Date:	2024-02-23
Dwn by:	P. VASS	MAN Project No:	232659
Rev:	CD	Drawn by:	H. RUSHTON
Checked by:		Reviewed by:	H. HALL
Submitted by:	MOFFATT & NICHOL	Drawing code:	
		Drawing Scale:	AS NOTED
		Plot scale:	1:1 (Metric D)

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**PLAN**  
SCALE: 1:200

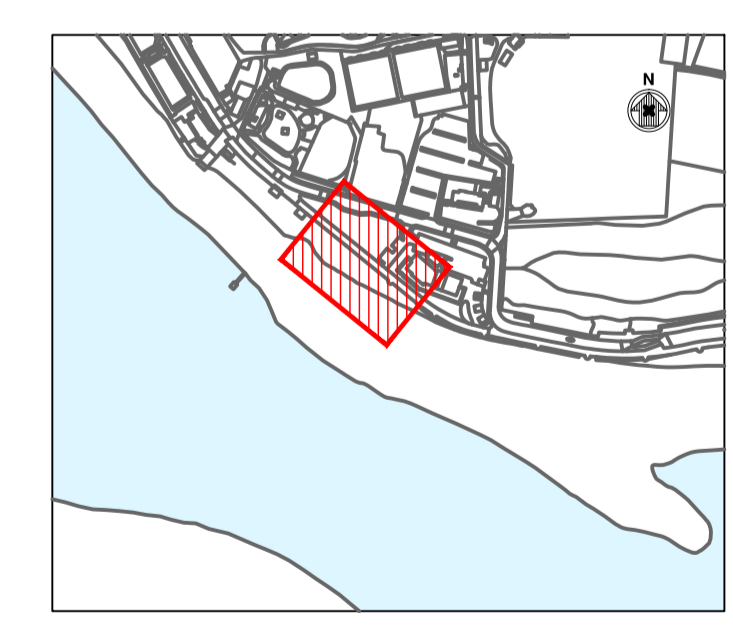
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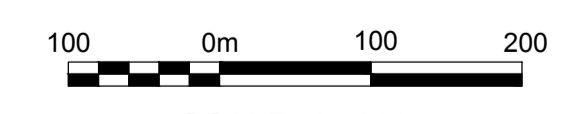
STN 04 (PSS04)



STN 03 (PSS03)



**KEY PLAN**



SCALE: 1 : 200

CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

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Sheet Reference No.  
**G-102**  
INDEX: 5 OF 20

CD	Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.

**ESPLANADE PLAN**  
EMMOUTH WALL URGENT WORKS - PHASE 1

Designed by:	J. WATTS	Date:	2024-02-23
Dwn by:	P. VASS	MAN Project No.:	232659
Reviewed by:	H. HALL	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS NOTED
		Plot scale:	1:1 (Metric D)

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Sheet Reference No.  
**G-103**  
INDEX: 6 OF 20

**NOTES**

**LEGEND**

- LIGHTING COLUMN
- UE — PROPOSED LIGHTING DUCT
- ▨ EXTENT OF PAVING REINSTATEMENT

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

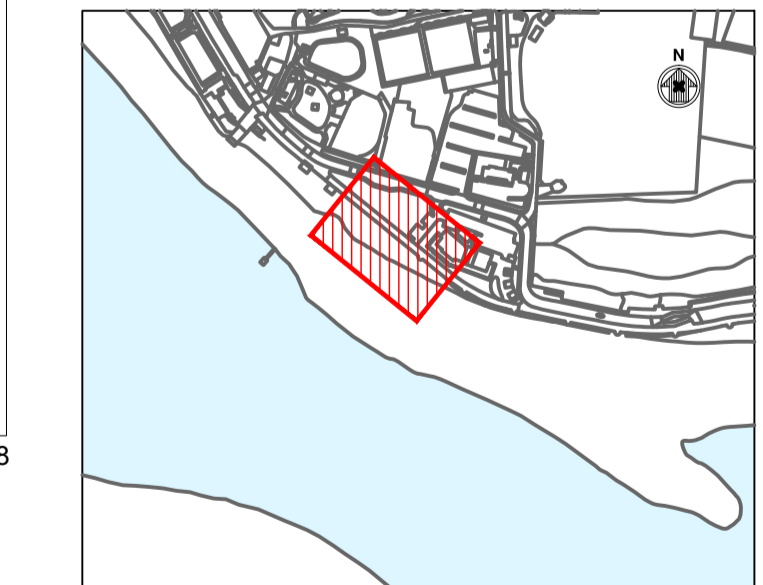
- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH

**MAINTENANCE**

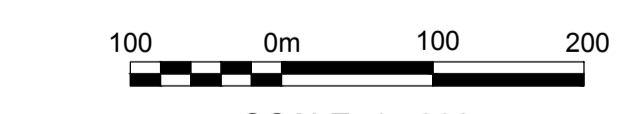
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**DEMOLITION**

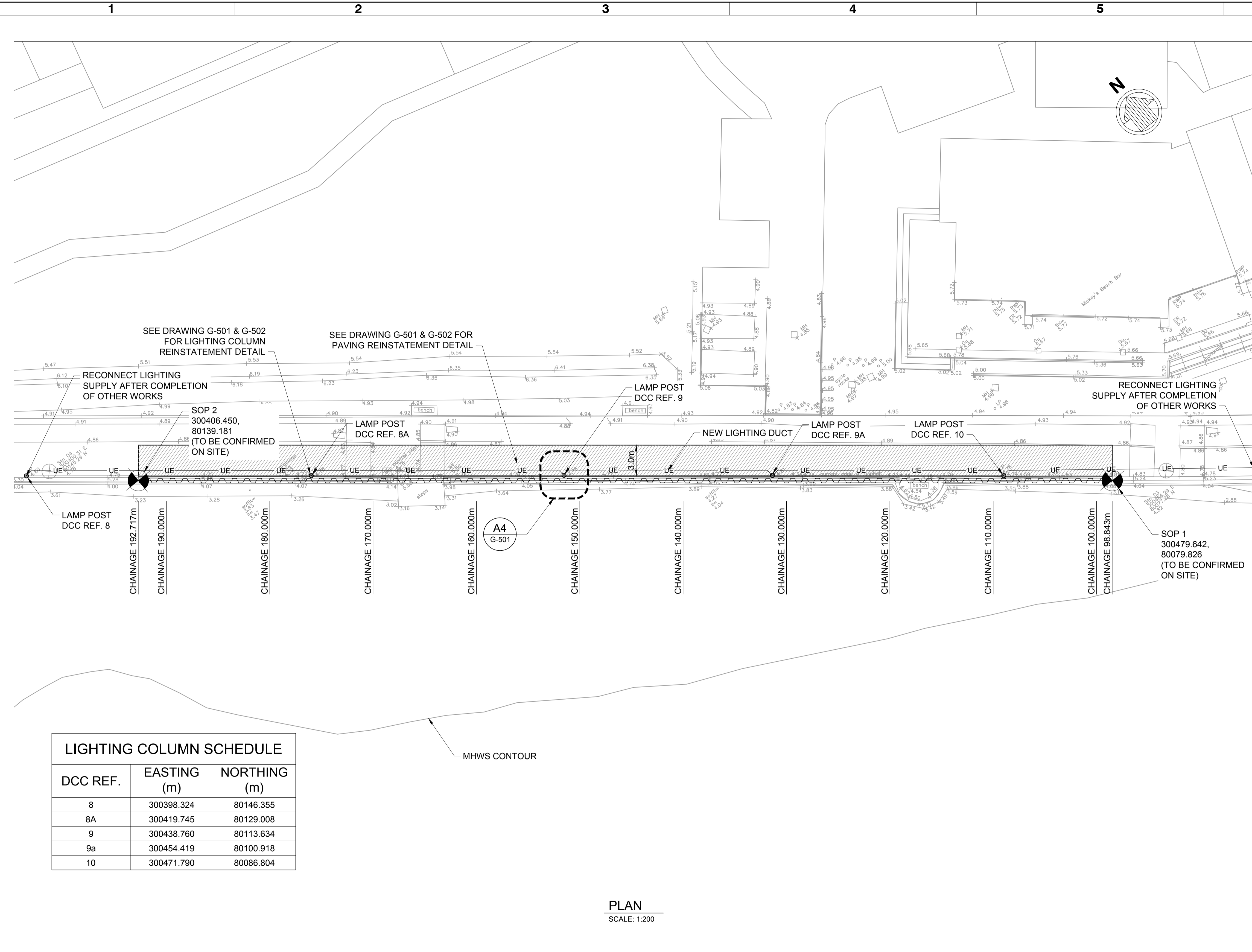
N/A



**KEY PLAN**



SCALE: 1 : 200  
**CONSTRUCTION ISSUE-2024-03-12**  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



DCC REF.	EASTING (m)	NORTHING (m)
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8A	300419.745	80129.008
9	300438.760	80113.634
9a	300454.419	80100.918
10	300471.790	80086.804

**PLAN**  
SCALE: 1:200

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CD	Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
				2024-03-12		

**EXMOUTH WALL URGENT WORKS  
- PHASE 1**

**DETAILS - SHEET 1**

Designed by:	J. WATTS	Date:	2024-02-23	Rev:	CD
Drawn by:	P. VASS	MAN Project No:	232659	Drawn by:	H. RUSHTON
Checked by:	F. VASS	Drawn code:		Reviewed by:	H. HALL
Submitted by:	M. FATT & NICHOL	Drawing Scale:	AS NOTED	Plot scale:	1:1 (Metric D)

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**moffatt & nichol**

SEAL

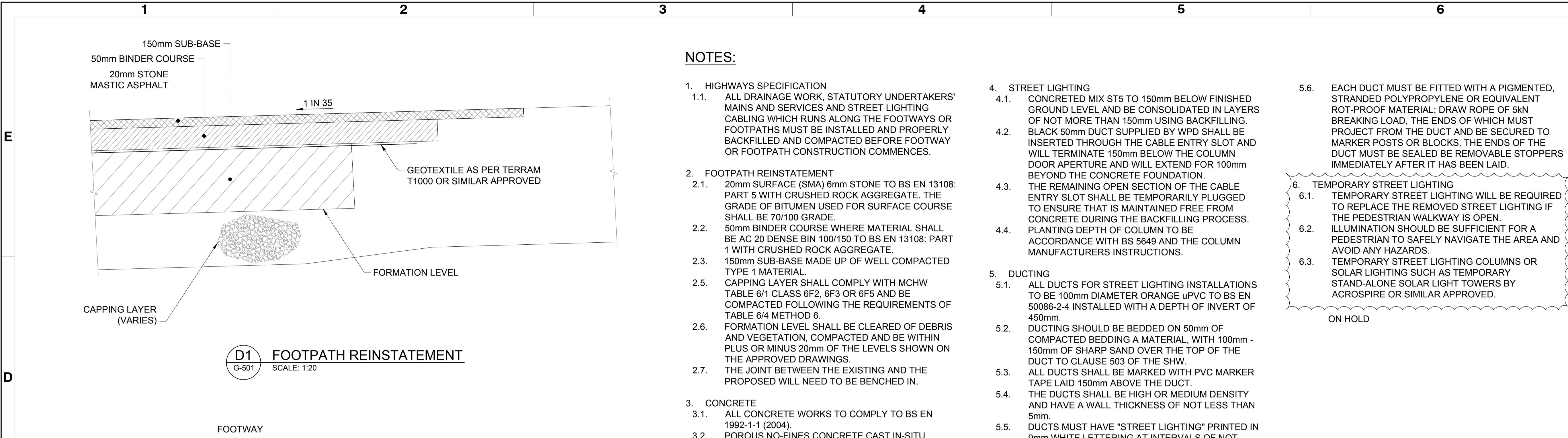
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**G-501**  
INDEX: 7 OF 20

**NOTES:**

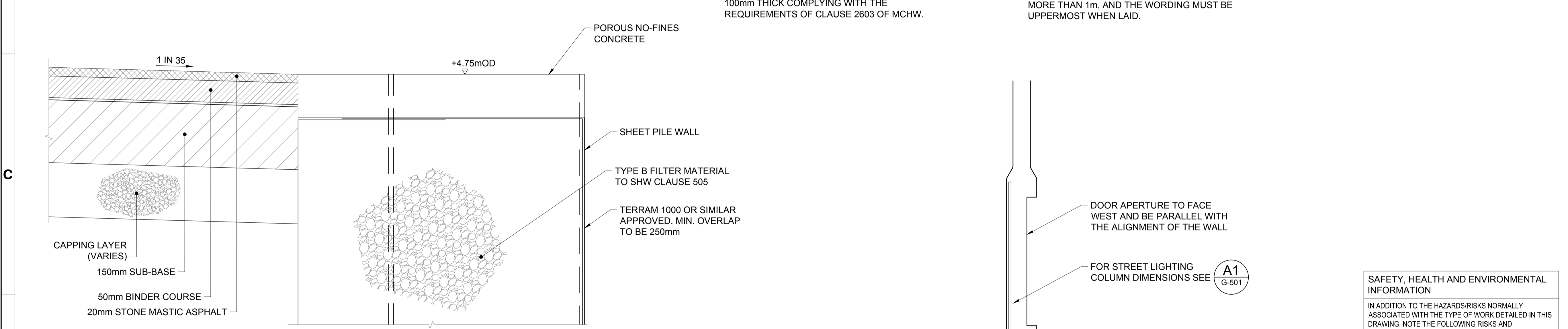
1. HIGHWAYS SPECIFICATION
  - 1.1. ALL DRAINAGE WORK, STATUTORY UNDERTAKERS' MAINS AND SERVICES AND STREET LIGHTING CABLES WHICH RUNS ALONG THE FOOTWAYS OR FOOTPATHS MUST BE INSTALLED AND PROPERLY BACKFILLED AND COMPACTED BEFORE FOOTWAY OR FOOTPATH CONSTRUCTION COMMENCES.
2. FOOTPATH REINSTATEMENT
  - 2.1. 20mm SURFACE (SMA) 6mm STONE TO BS EN 13108: PART 5 WITH CRUSHED ROCK AGGREGATE. THE GRADE OF BITUMEN USED FOR SURFACE COURSE SHALL BE 70/100 GRADE.
  - 2.2. 50mm BINDER COURSE WHERE MATERIAL SHALL BE AC 20 DENSE BIN 100/150 TO BS EN 13108: PART 1 WITH CRUSHED ROCK AGGREGATE.
  - 2.3. 150mm SUB-BASE MADE UP OF WELL COMPACTED TYPE 1 MATERIAL.
  - 2.5. CAPPING LAYER SHALL COMPLY WITH MCHW TABLE 6/1 CLASS 6F2, 6F3 OR 6F5 AND BE COMPACTED FOLLOWING THE REQUIREMENTS OF TABLE 6/4 METHOD 6.
  - 2.6. FORMATION LEVEL SHALL BE CLEARED OF DEBRIS AND VEGETATION, COMPACTED AND BE WITHIN PLUS OR MINUS 20mm OF THE LEVELS SHOWN ON THE APPROVED DRAWINGS.
  - 2.7. THE JOINT BETWEEN THE EXISTING AND THE PROPOSED WILL NEED TO BE BENCHED IN.
3. CONCRETE
  - 3.1. ALL CONCRETE WORKS TO COMPLY TO BS EN 1992-1-1 (2004).
  - 3.2. POROUS NO-FINES CONCRETE CAST IN-SITU 100mm THICK COMPLYING WITH THE REQUIREMENTS OF CLAUSE 2603 OF MCHW.
4. STREET LIGHTING
  - 4.1. CONCRETED MIX ST5 TO 150mm BELOW FINISHED GROUND LEVEL AND BE CONSOLIDATED IN LAYERS OF NOT MORE THAN 150mm USING BACKFILLING.
  - 4.2. BLACK 50mm DUCT SUPPLIED BY WPD SHALL BE INSERTED THROUGH THE CABLE ENTRY SLOT AND WILL TERMINATE 150mm BELOW THE COLUMN DOOR APERTURE AND WILL EXTEND FOR 100mm BEYOND THE CONCRETE FOUNDATION.
  - 4.3. THE REMAINING OPEN SECTION OF THE CABLE ENTRY SLOT SHALL BE TEMPORARILY PLUGGED TO ENSURE THAT IS MAINTAINED FREE FROM CONCRETE DURING THE BACKFILLING PROCESS.
  - 4.4. PLANTING DEPTH OF COLUMN TO BE ACCORDANCE WITH BS 5649 AND THE COLUMN MANUFACTURERS INSTRUCTIONS.
5. DUCTING
  - 5.1. ALL DUCTS FOR STREET LIGHTING INSTALLATIONS TO BE 100mm DIAMETER ORANGE uPVC TO BS EN 50086-2-4 INSTALLED WITH A DEPTH OF INVERT OF 450mm.
  - 5.2. DUCTING SHOULD BE BEDDED ON 50mm OF COMPACTED BEDDING A MATERIAL, WITH 100mm - 150mm OF SHARP SAND OVER THE TOP OF THE DUCT TO CLAUSE 503 OF THE SHW.
  - 5.3. ALL DUCTS SHALL BE MARKED WITH PVC MARKER TAPE LAID 150mm ABOVE THE DUCT.
  - 5.4. THE DUCTS SHALL BE HIGH OR MEDIUM DENSITY AND HAVE A WALL THICKNESS OF NOT LESS THAN 5mm.
  - 5.5. DUCTS MUST HAVE "STREET LIGHTING" PRINTED IN 9mm WHITE LETTERING AT INTERVALS OF NOT MORE THAN 1m, AND THE WORDING MUST BE UPPERMOST WHEN LAID.
6. TEMPORARY STREET LIGHTING
  - 6.1. TEMPORARY STREET LIGHTING WILL BE REQUIRED TO REPLACE THE REMOVED STREET LIGHTING IF THE PEDESTRIAN WALKWAY IS OPEN.
  - 6.2. ILLUMINATION SHOULD BE SUFFICIENT FOR A PEDESTRIAN TO SAFELY NAVIGATE THE AREA AND AVOID ANY HAZARDS.
  - 6.3. TEMPORARY STREET LIGHTING COLUMNS OR SOLAR LIGHTING SUCH AS TEMPORARY STAND-ALONE SOLAR LIGHT TOWERS BY ACROSPIRE OR SIMILAR APPROVED.

EACH DUCT MUST BE FITTED WITH A PIGMENTED, STRANDED POLYPROPYLENE OR EQUIVALENT ROT-PROOF MATERIAL; DRAW ROPE OF 5kN BREAKING LOAD, THE ENDS OF WHICH MUST PROJECT FROM THE DUCT AND BE SECURED TO MARKER POSTS OR BLOCKS. THE ENDS OF THE DUCT MUST BE SEALED BE REMOVABLE STOPPERS IMMEDIATELY AFTER IT HAS BEEN LAID.

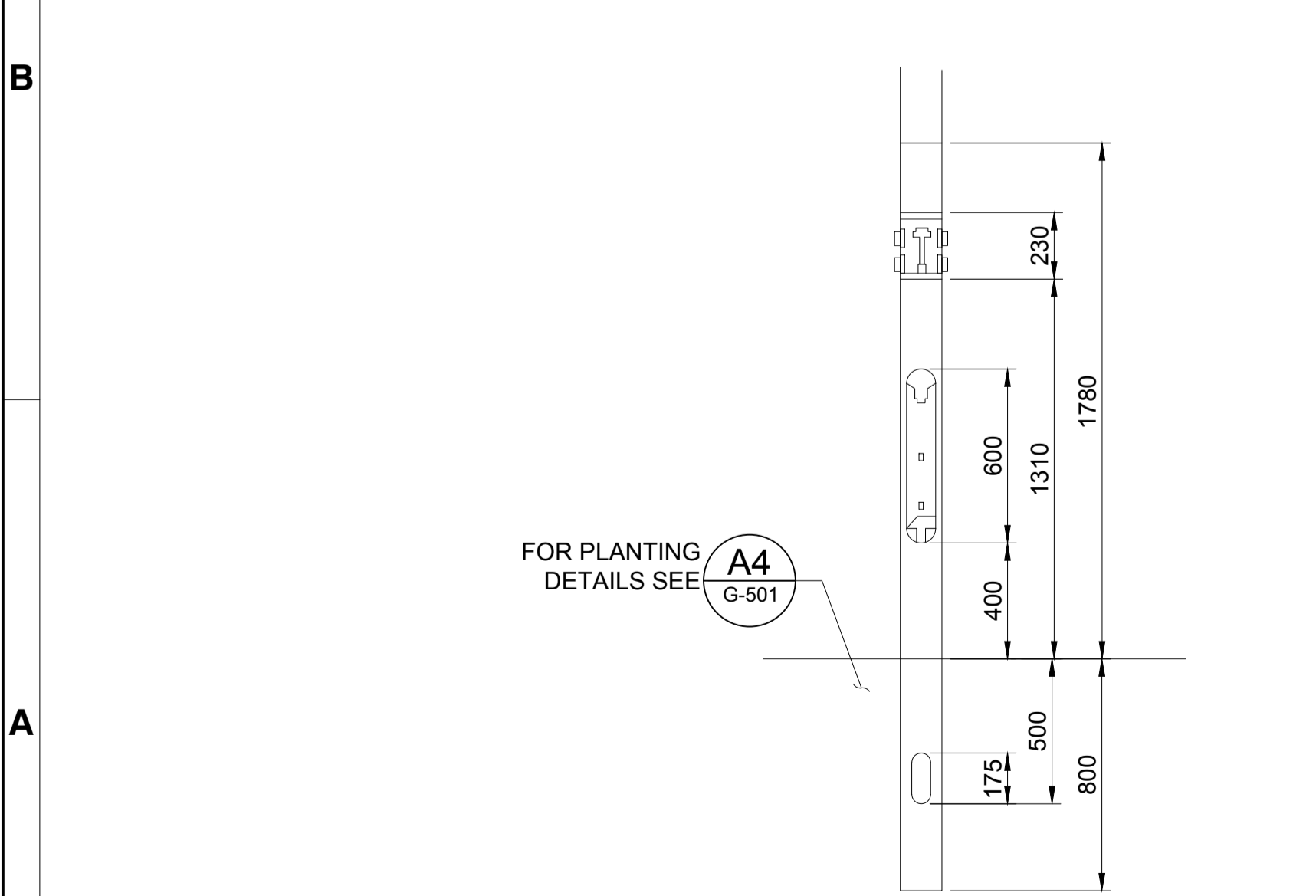
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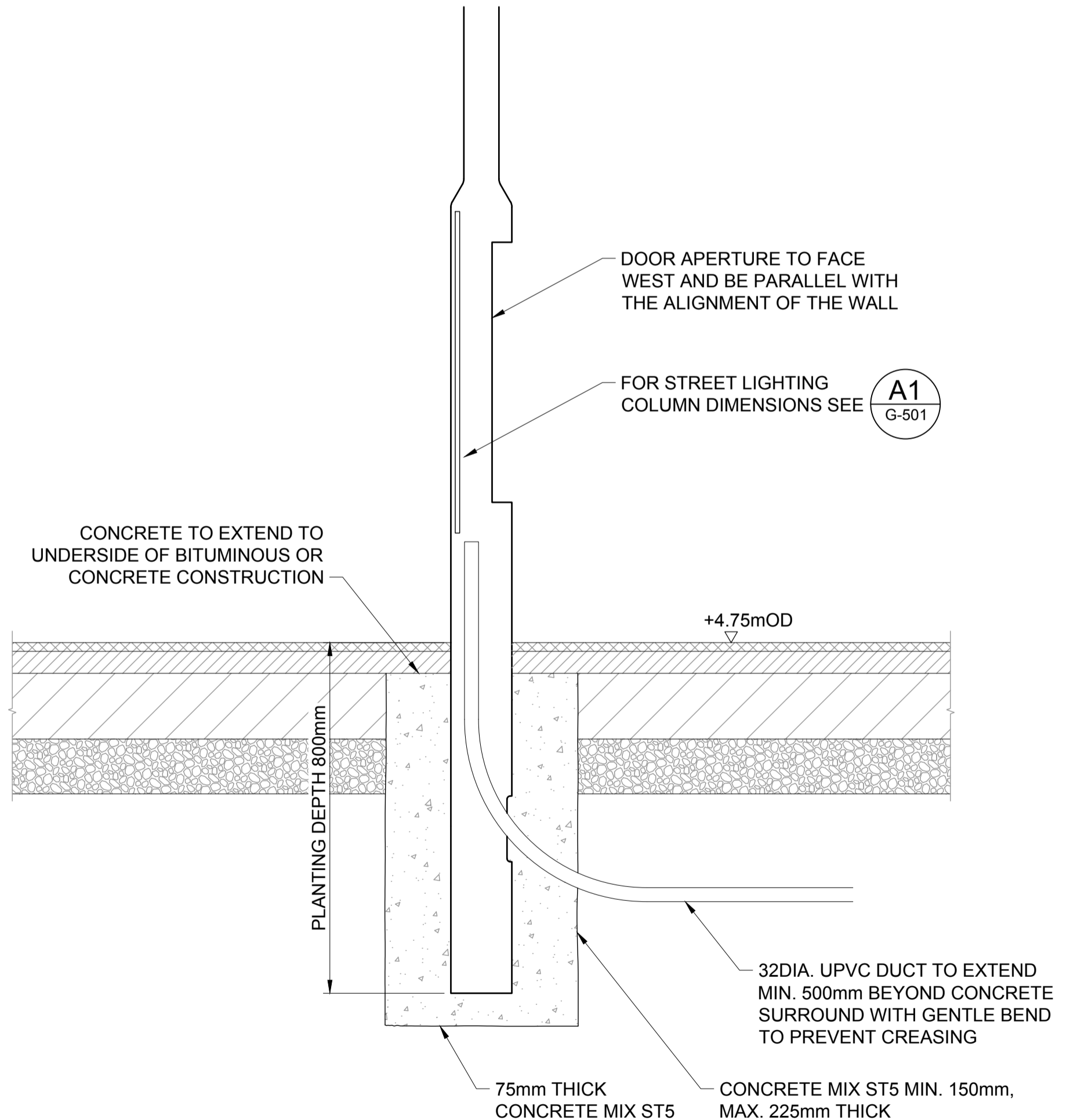
**D1**  
G-501  
**FOOTPATH REINSTATEMENT**  
SCALE: 1:20



**B1**  
G-501  
**CONCRETE CAPPING IN SECTION**  
SCALE: 1:20



**A1**  
G-501  
**5m STEEL COLUMN DIMENSIONS**  
SCALE: 1:20



**A4**  
G-501  
**5m STEEL COLUMN IN PAVED AREA**  
SCALE: 1:10

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

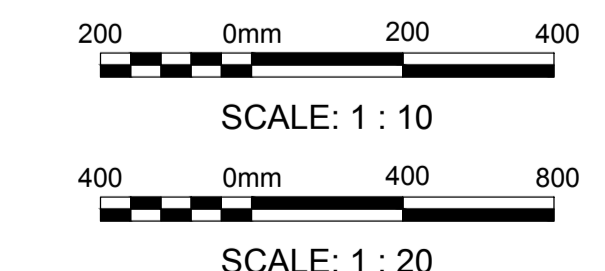
- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH

**MAINTENANCE**

N/A

**DEMOLITION**

N/A



CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

Rev.	Date	Description	DT	Appr.
1	2024-03-12	ISSUED FOR CONSTRUCTION		

**EXMOUTH WALL URGENT WORKS  
- PHASE 1**

**DETAILS - SHEET 2**

Designed by:	J. WATTS	Date:	2024-02-23
Dwn by:	P. VASS	MAN Project No.:	232659
Chd by:	H. RUSHTON	Drawing code:	
Reviewed by:	H. HALL	Drawing Scale:	AS NOTED
Submitted by:	M. OFFATT & NICHOL	Plot scale:	1:1 (Metric D)

31/22 SOUTHERNHAY EAST  
EXETER DEVON EX1 1NS  
UNITED KINGDOM  
T +44 (0) 1252 22617

SEAL

Sheet Reference No.  
**G-502**  
INDEX: 8 OF 20

**NOTES**

1. COMPACTED FILL
  - 1.1. CLASS 6N FILL MATERIAL IN ACCORDANCE WITH CLAUSE 610 OF THE MCHW.
  - 1.2. THE MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OUTLINED IN TABLE 6/1 IN SERIES 600 OF THE MCHW.

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

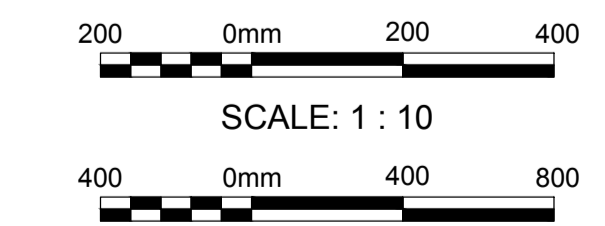
- CONSTRUCTION**
- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
  - HISTORIC UXO
  - WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
  - WORKING AT HEIGHT - LOW BEACH LEVELS
  - PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH

**MAINTENANCE**

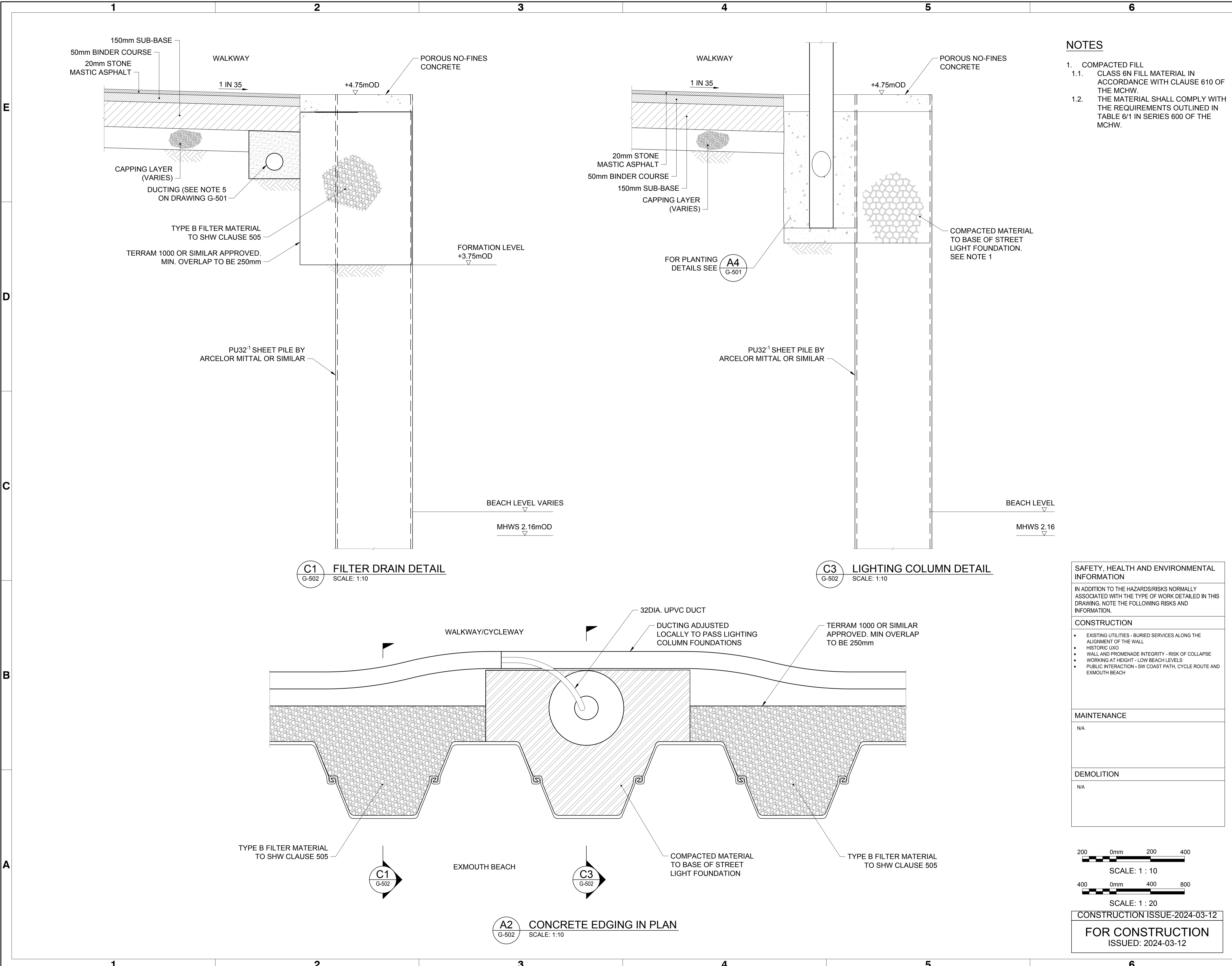
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**DEMOLITION**

N/A



CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



E  
D  
C  
B  
A

1 2 3 4 5 6

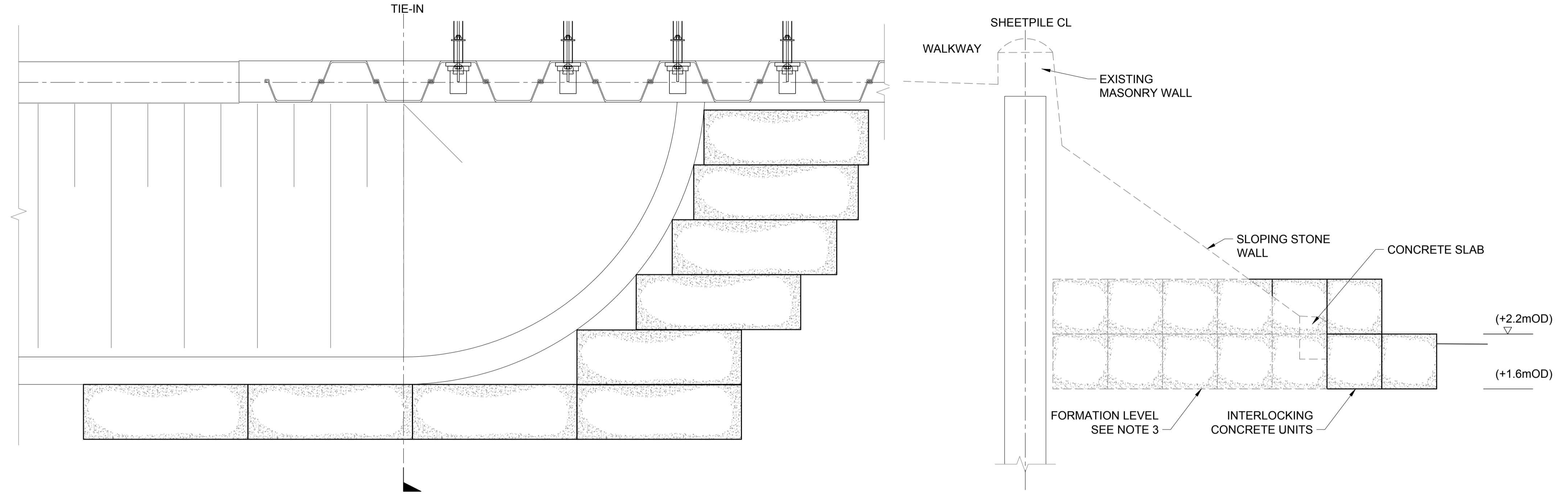
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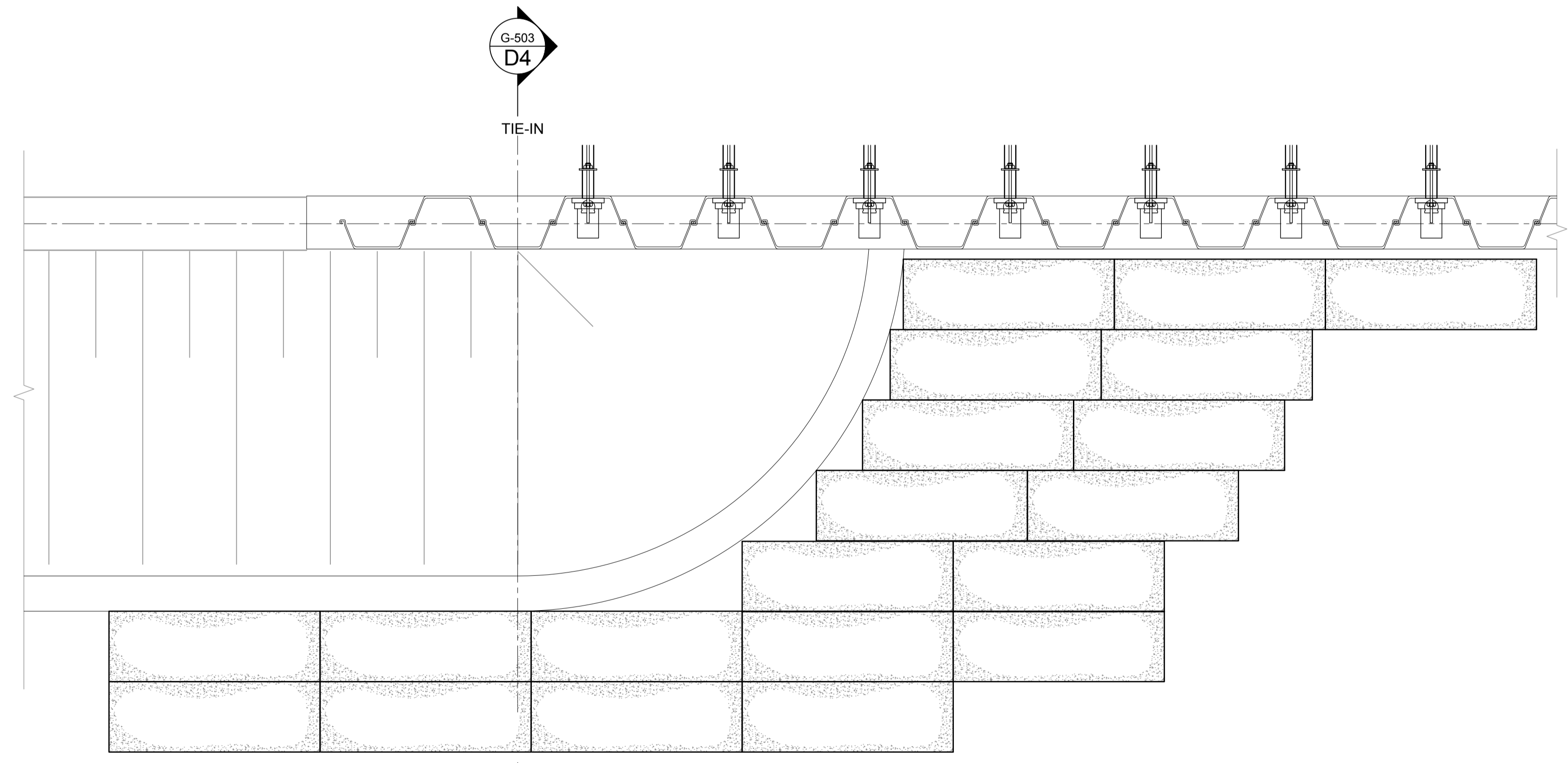
- FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001.
- FOR LIFTING DETAILS OF THE INTERLOCKING UNITS REFER TO THE MANUFACTURERS SPECIFICATION.
- FORMATION TO BE LEVEL WITH BATTER OF 1:50 SLOPING BACK TOWARD THE SHEET PILE WALL.

Rev.	Date	Description	DT	Appr.
01	2024-03-12	ISSUED FOR CONSTRUCTION		



**D1** PLAN AT LEVEL +2.2mOD  
G-503 SCALE: 1:30

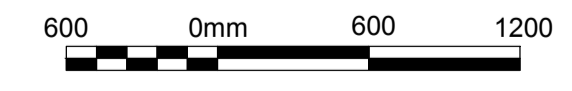
**D4** SECTION  
G-503 SCALE: 1:30



**A1** PLAN AT LEVEL +1.6mOD  
G-503 SCALE: 1:30

**G-503** WESTERN END - TEMPORARY INTERLOCKING BLOCK LAYOUT  
SCALE: 1:30

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.	
CONSTRUCTION	
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MAINTENANCE	
N/A	
DEMOLITION	
N/A	



SCALE: 1 : 30  
CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

**EXMOUTH WALL URGENT WORKS - PHASE 1**  
**DETAILS - SHEET 3**

Designed by:	J. WATTS	Drawn by:	M. MYLES	Reviewed by:	H. HALL	Submitted by:	MOFFATT & NICHOL
Date:	2024-03-07	Check by:	H. RUSHTON	Drawing code:		Drawing Scale:	AS NOTED
Rev:	01	M&N Project No:	232859	Plot scale:	1:1 (Metric/D)		

SEAL

Sheet Reference No.  
**G-503**  
INDEX: 9 OF 20

**NOTES**

- FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001.
- FOR LIFTING DETAILS OF THE INTERLOCKING UNITS REFER TO THE MANUFACTURERS SPECIFICATION.
- FORMATION TO BE LEVEL WITH BATTER OF 1:50 SLOPING BACK TOWARD THE SHEET PILE WALL.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.	
CONSTRUCTION	
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MAINTENANCE	
N/A	
DEMOLITION	
N/A	

Rev.	Date	CO	Description	DT	Appr.
01	2024-03-12	ISSUED FOR CONSTRUCTION			

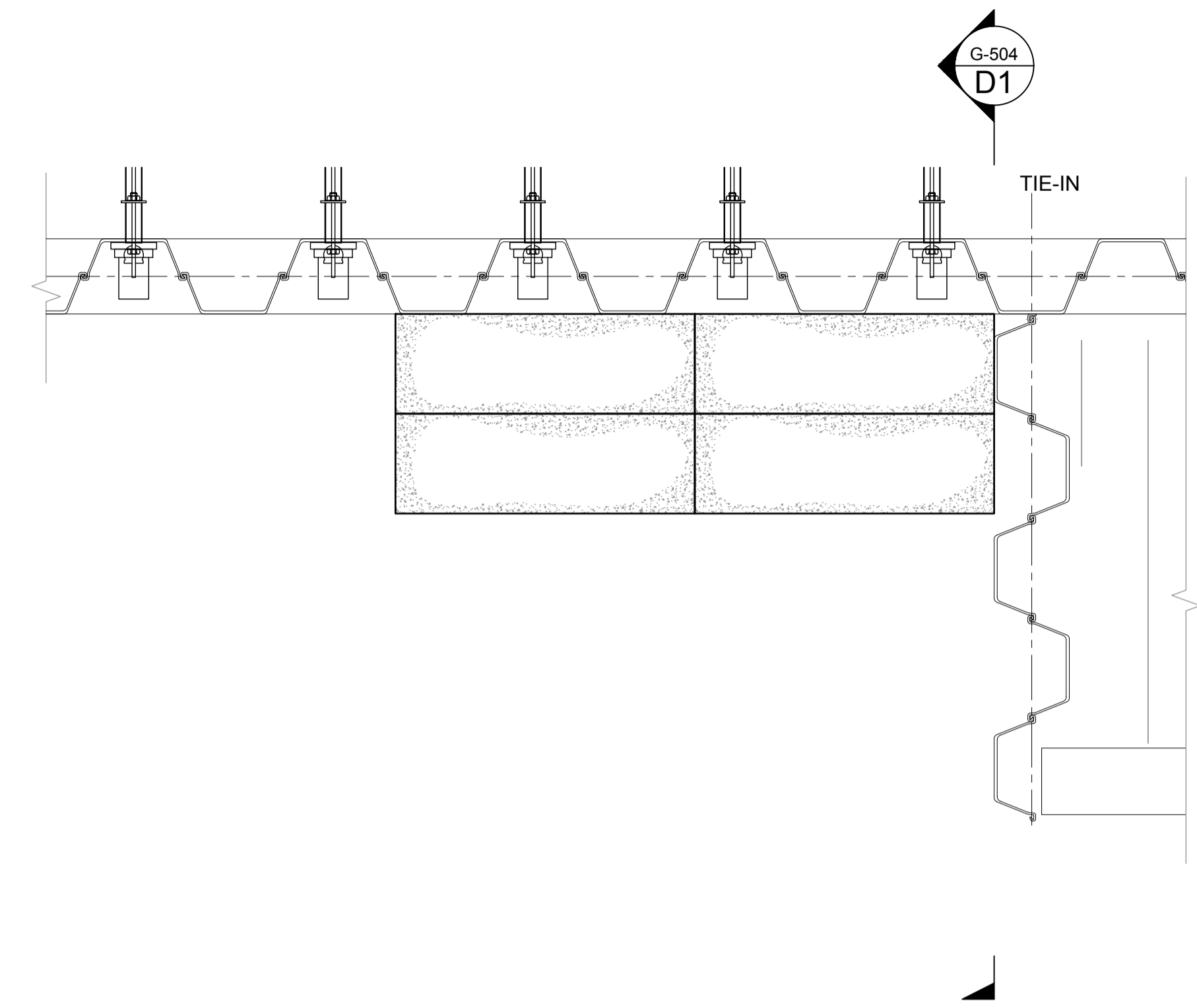
<b>EXMOUTH WALL URGENT WORKS - PHASE 1</b>	<b>DETAILS - SHEET 4</b>
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Designed by: J. WATTS Date by: P. VASS 3102 SOUTHERNWAY EAST EXETER, DEVON EX1 1NS UNITED KINGDOM T+44 (0) 1252 224617	Drawn by: H. RUSHTON Checked by: H. HALL Submitted by: MOFFATT & NICHOL	Date: 2024-03-07 M&N Project No: 232659 Drawing code: Drawing Scale: AS NOTED Plot scale: 1:1 (Metric D)
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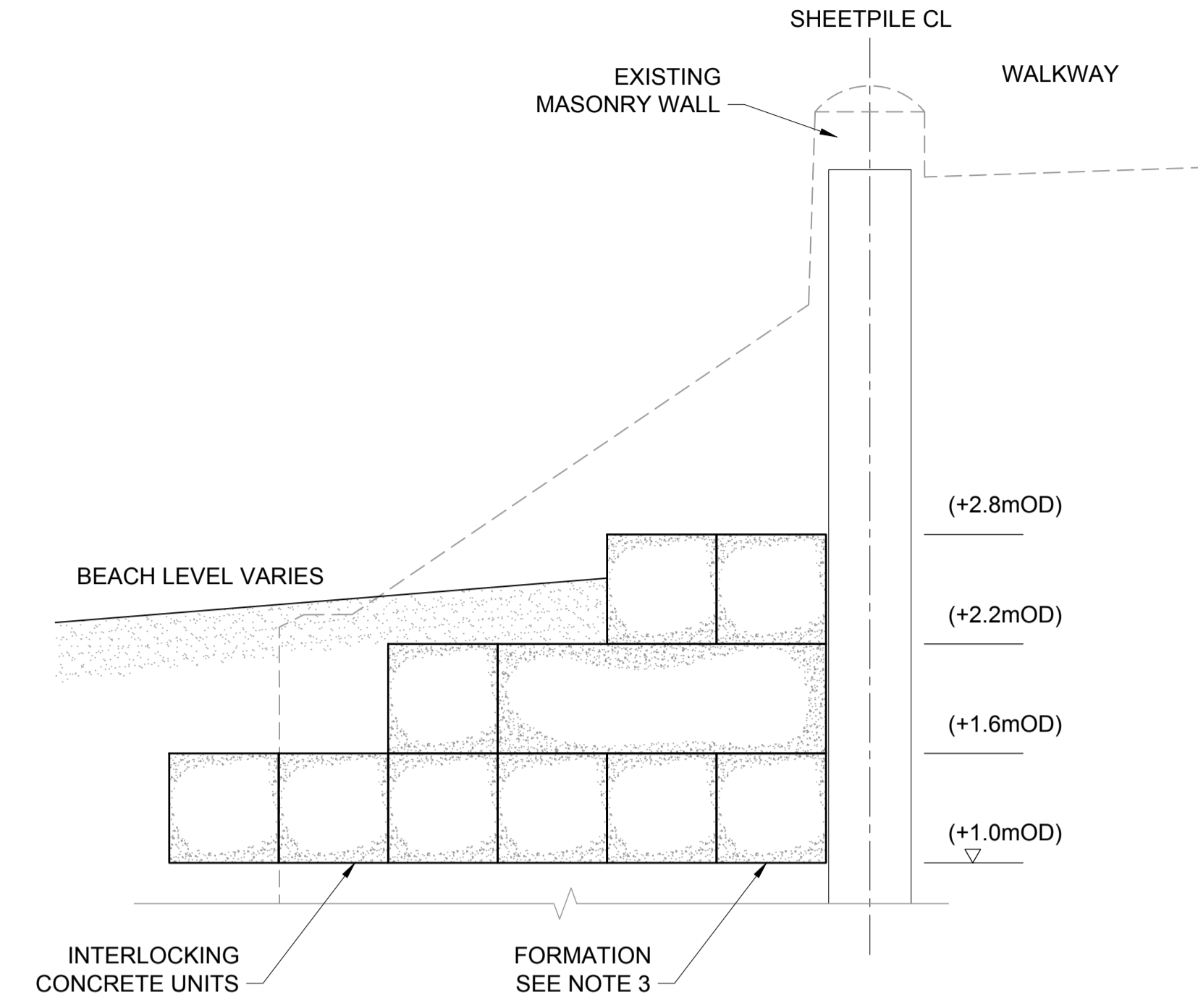
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Sheet Reference No. <b>G-504</b> INDEX: 10 OF 20
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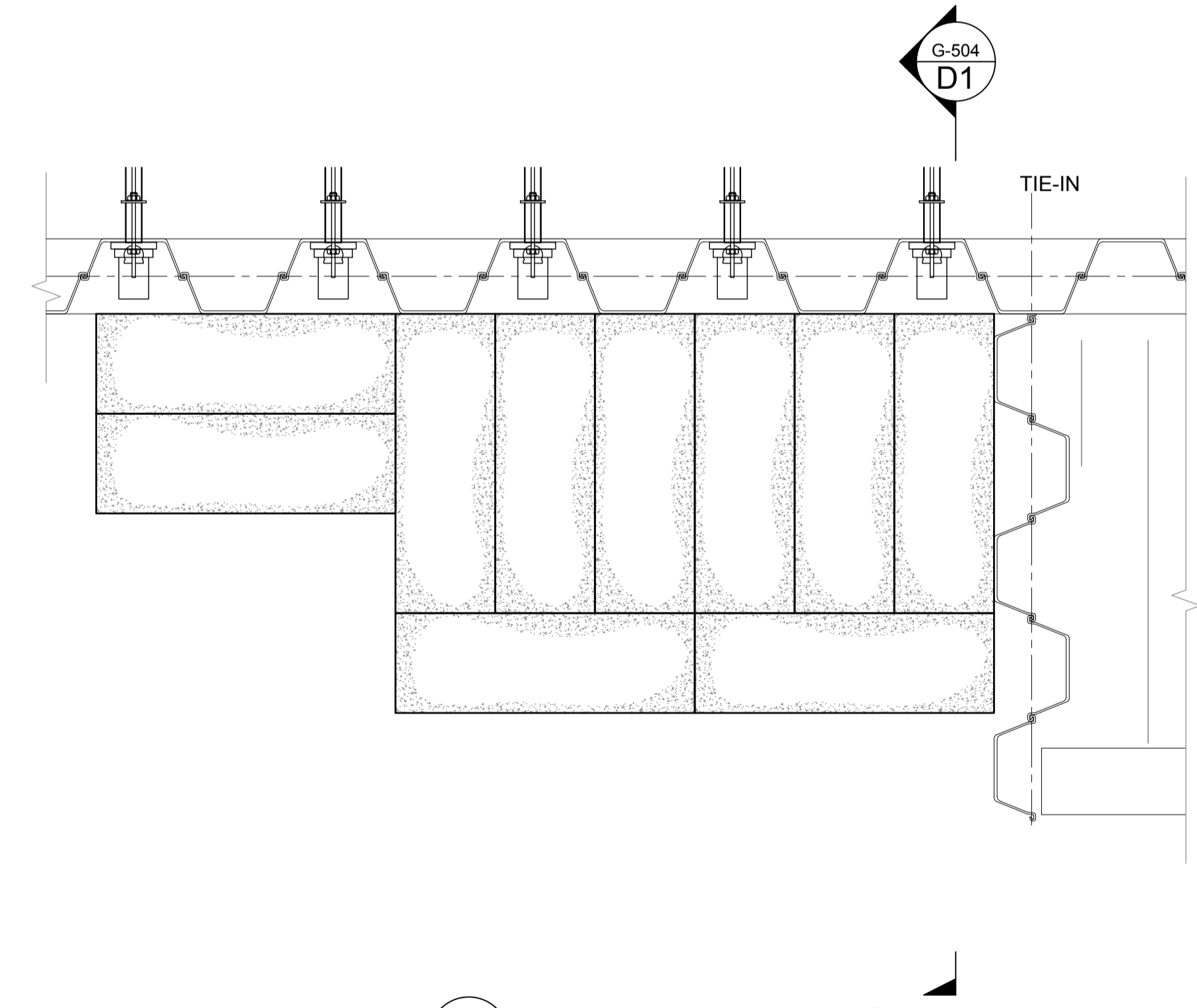
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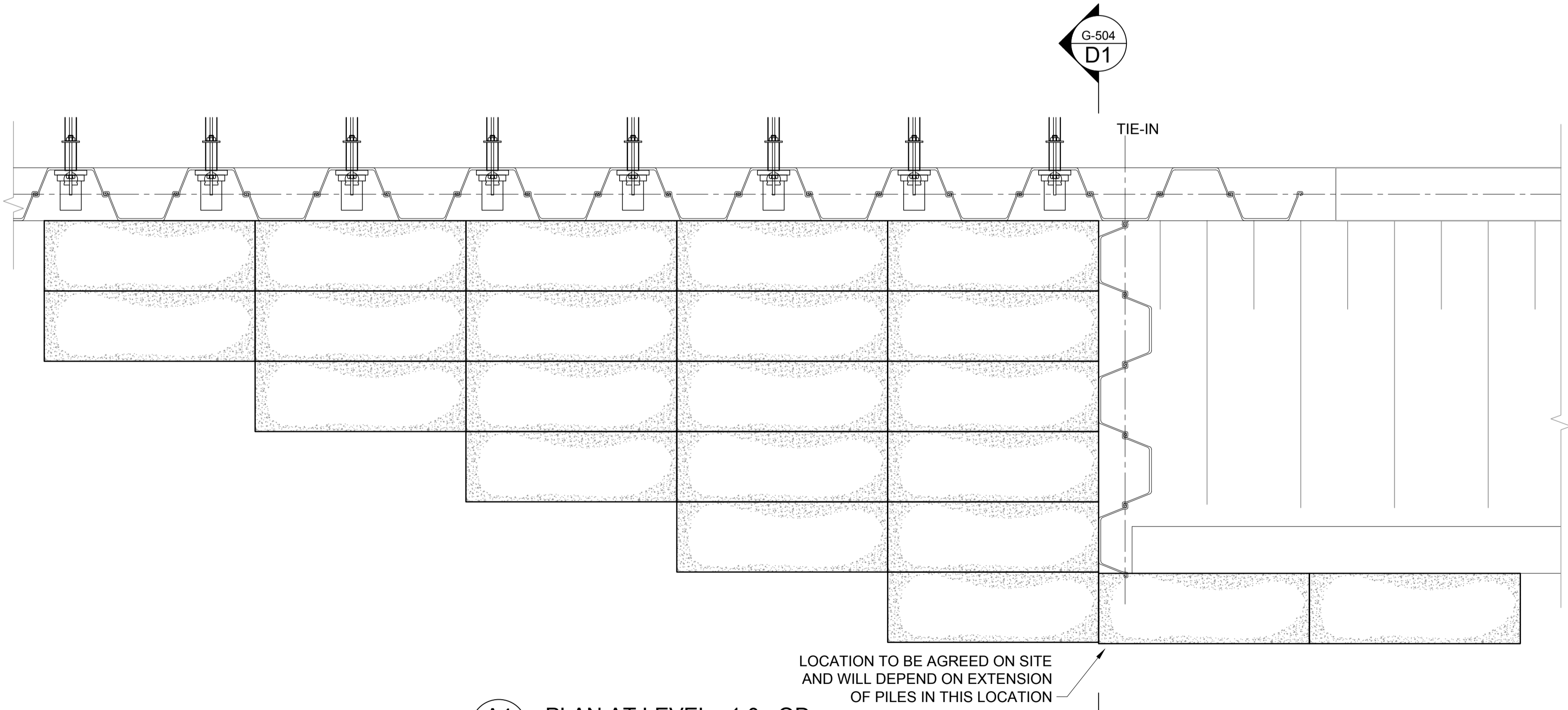
**D1** PLAN AT LEVEL +2.2mOD  
G-503 SCALE: 1:30



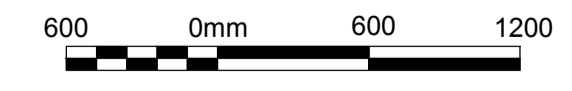
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G-503 SCALE: 1:30



**A1** PLAN AT LEVEL +1.6mOD  
G-503 SCALE: 1:30



**A4** PLAN AT LEVEL +1.0mOD  
G-503 SCALE: 1:30



SCALE: 1 : 30

CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

**EASTERN END - TEMPORARY INTERLOCKING BLOCK LAYOUT**  
G-503 SCALE: 1:30

CD	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
			2024-03-12		

**EXMOUTH WALL URGENT WORKS - PHASE 1**

**HAZARD PLAN - PAS 128 SURVEY**

Rev.	Date	CD
	2024-03-23	

3132 SOUTHERNHAY EAST  
EXETER DEVON EX1 1NS  
UNITED KINGDOM  
T: +44 (0) 1525 226617

SEAL

Sheet Reference No.  
**H-101**  
INDEX: 11 OF 20

**NOTES**

- UTILITIES SURVEY UNDERTAKEN BY SIEKA UTILITY SURVEYS IN DECEMBER 2023 TO PAS 128 SURVEY TYPE D & TYPE B.
- UTILITIES OUTSIDE OF THE SURVEY BOUNDARY EXTENTS ARE BASED ON ORIGINAL RETURNS FROM UTILITY COMPANIES.
- UTILITY INFORMATION
  - CONTRACTOR TO REVIEW HISTORIC UTILITY INFORMATION PROVIDED IN THE SITE INFORMATION.
  - DETAILS RECEIVED OF FOUNDATIONS, UTILITIES AND DRAINAGE ASSOCIATED WITH THE SIDESHORE DEVELOPMENT ARE LOCATED IN APPENDIX 1 OF THE PCI (INCLUDING SOAKAWAYS LOCATED WITHIN THE AREA DESIGNATED AS SITE COMPOUND) CONTRACTOR TO CARRY OUT SERVICE SEARCH PRIOR TO COMMENCEMENT OF THE WORKS.

**LEGEND:**

- PHASE 1 WORKS
- - - PHASE 2 WORKS

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

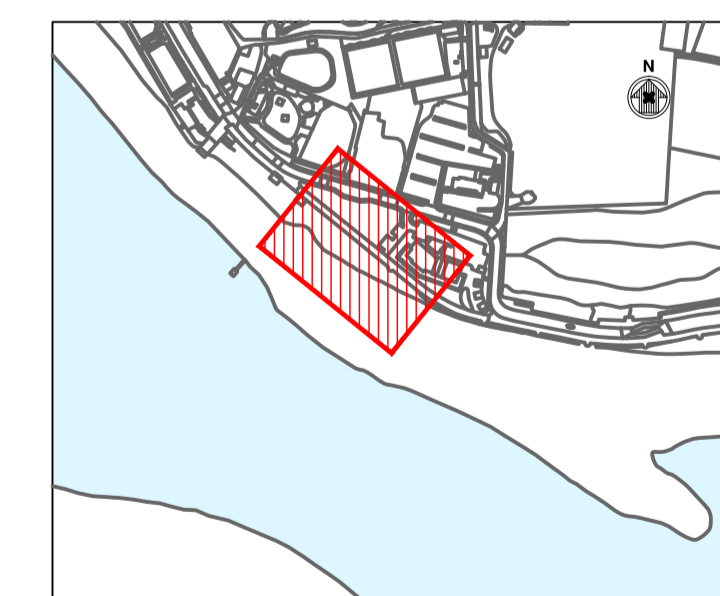
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- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- SSSI & SPA - NOISE IMPACTS
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH
- ACCESS RAMP - RESTRICTED ACCESS
- DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS
- INTERDIAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

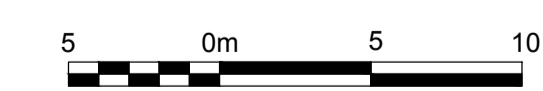
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**DEMOLITION**

N/A



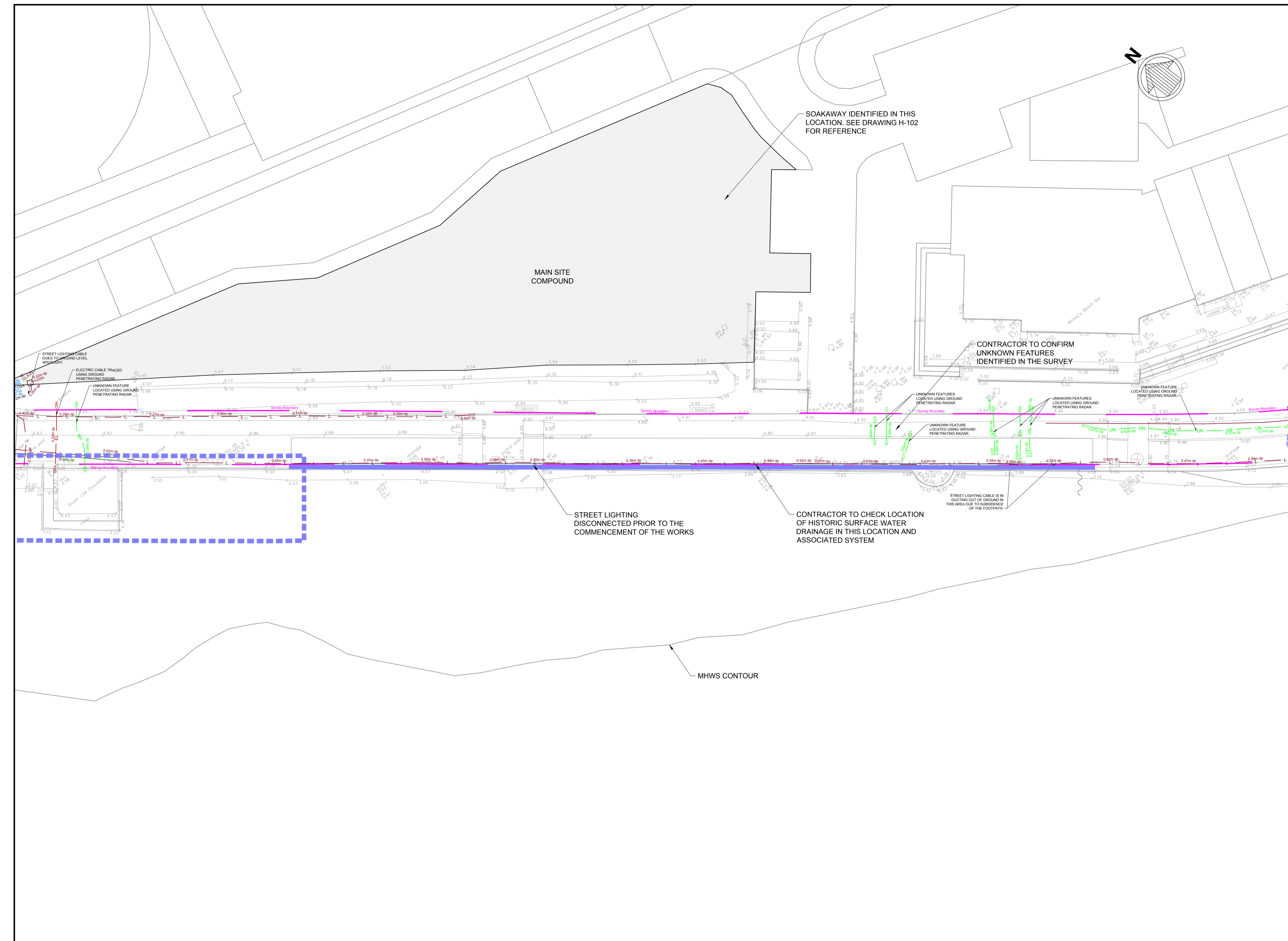
**KEY PLAN**



SCALE: 1:250

CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



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**PLAN**

SCALE: 1:250

**LEGEND**

- |                        |                        |                     |                 |
|------------------------|------------------------|---------------------|-----------------|
| — SW —>— SW —>— SW —>— | SURFACE WATER          | — WTR —>— WTR —>—   | WATER MAIN      |
| — SW —<— SW —<— SW —<— | SEWER                  | — BT —>— BT —>—     | TELECOM         |
| — FW —>— FW —>— FW —>— | FOUL WATER SEWER       | — 11kV —>— 11kV —>— | 11KV ELECTRIC   |
| — FW —<— FW —<— FW —<— |                        | — L —>— L —>—       | LIGHTING        |
| — SW —>— SW —>—        | SURFACE WATER RISING   | — UN —>— UN —>—     | UNKNOWN SERVICE |
| — SW —<— SW —<—        | MAIN                   | — DUCT —>— DUCT —>— | EMPTY DUCT      |
| — FW —>— FW —>—        | FOUL SEWER RISING MAIN |                     |                 |
| — FW —<— FW —<—        |                        |                     |                 |
| — EL —>— EL —>—        | ELECTRIC (LV)          |                     |                 |
| — GAS —>— GAS —>—      | GAS MAIN (HP,IP,MP,LP) |                     |                 |

**NOTES**

- UTILITIES SURVEY UNDERTAKEN BY SIEKA UTILITY SURVEYS IN DECEMBER 2023 TO PAS 128 SURVEY TYPE D & TYPE B.
- UTILITIES OUTSIDE OF THE SURVEY BOUNDARY EXTENTS ARE BASED ON ORIGINAL RETURNS FROM UTILITY COMPANIES.
- UTILITY INFORMATION
  - CONTRACTOR TO REVIEW HISTORIC UTILITY INFORMATION PROVIDED IN THE SITE INFORMATION.
  - DETAILS RECEIVED OF FOUNDATIONS, UTILITIES AND DRAINAGE ASSOCIATED WITH THE SIDESHORE DEVELOPMENT ARE LOCATED IN APPENDIX 1 OF THE PCI (INCLUDING SOAKAWAYS LOCATED WITHIN THE AREA DESIGNATED AS SITE COMPOUND) CONTRACTOR TO CARRY OUT SERVICE SEARCH PRIOR TO COMMENCEMENT OF THE WORKS.

**LEGEND:**

— APPROXIMATE EXTENT OF WORKS

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

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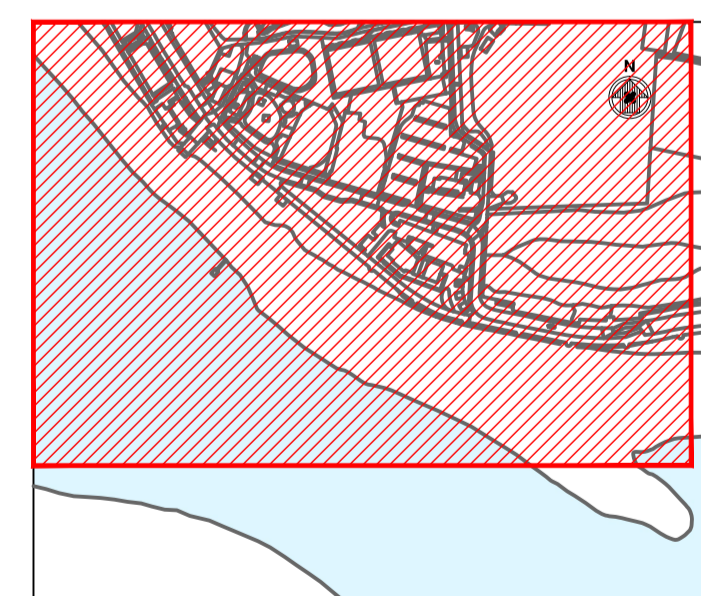
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- INTERTIDAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

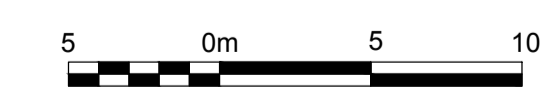
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**DEMOLITION**

N/A



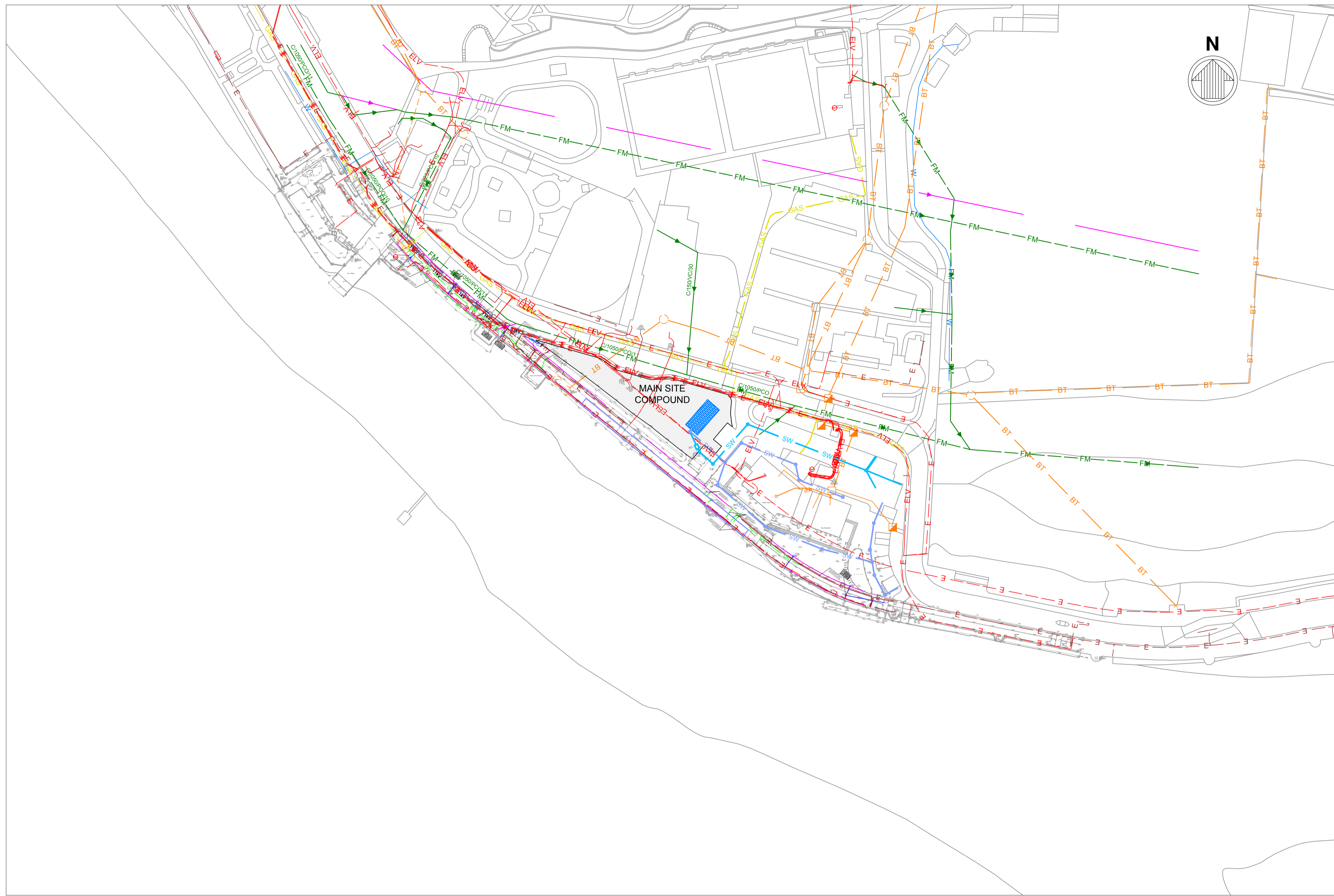
**KEY PLAN**



SCALE: 1:250

CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



**PLAN**  
SCALE: 1:250

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**LEGEND (PAS 128)**

- |                  |                           |               |                 |
|------------------|---------------------------|---------------|-----------------|
| —SW—>—SW—>—SW—>— | SURFACE WATER SEWER       | —WTR— WTR —   | WATER MAIN      |
| —SW—<—SW—<—SW—<— |                           | —BT— BT —     | TELECOM         |
| —FW—>—FW—>—FW—>— | FOUL WATER SEWER          | —11kV— 11kV — | 11kV ELECTRIC   |
| —FW—<—FW—<—FW—<— |                           | —L— L —       | LIGHTING        |
| —SW—>—SW—>—      | SURFACE WATER RISING MAIN | —UN— UN —     | UNKNOWN SERVICE |
| —SW—<—SW—<—      |                           | —DUCT— DUCT — | EMPTY DUCT      |
| —FW—>—FW—>—      | FOUL SEWER RISING MAIN    |               |                 |
| —FW—<—FW—<—      |                           |               |                 |
| —EL— EL —        | ELECTRIC (LV)             |               |                 |
| —GAS— GAS —      | GAS MAIN (HP,IP,MP,LP)    |               |                 |

**LEGEND (UTILITY COMPANY RETURNS)**

- |             |                     |                    |                        |
|-------------|---------------------|--------------------|------------------------|
| —E— E —     | ELECTRIC (PL)       | SOAKAWAY           |                        |
| —E— E —     | ELECTRIC (SERVICE)  | —FM— FM —          | FOUL WATER SEWER       |
| —ELV— ELV — | ELECTRIC (LV)       | —BT— BT —          | TELECOM                |
| ⊕           | EARTH               | —TELECOM (PLANNED) |                        |
| —G— G —     | GAS                 | ○                  | TELECOM POLE           |
| —W— W —     | WATER MAIN          | ○                  | TELECOM POLE (PLANNED) |
| —SW— SW —   | SURFACE WATER DRAIN | □                  | TELECOM BOX            |
| —SW— SW —   | HIGHWAY DRAIN       | □                  | TELECOM BOX (PLANNED)  |

CD	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
			2024-03-12		

**EXMOUTH WALL URGENT WORKS - PHASE 1**

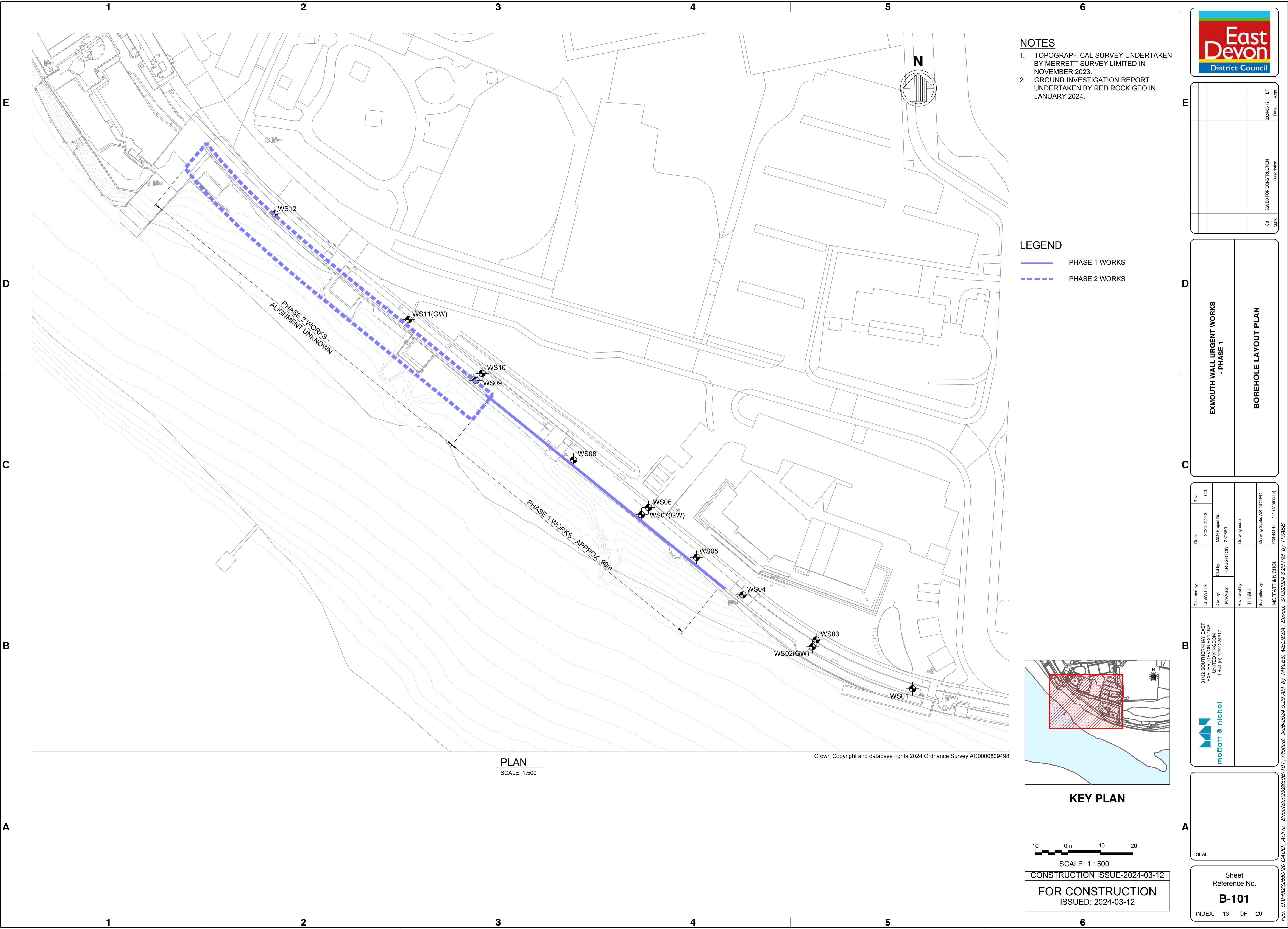
**HAZARD PLAN - UTILITY SURVEYS**

Designed by:	J.WATTS	Date:	2024-03-23	Rev:	CD
Dwn by:	P.VASS	MAN Project No:	232859		
Reviewed by:	H.RUSHTON	Drawing code:			
Submitted by:	H.HALL	Drawing Scale:	AS NOTED		
	MOFFATT & NICHOL	Plot scale:	1:1 (Metric D)		

3132 SOUTHERNHAY EAST  
EXETER DEVON EX1 1NS  
UNITED KINGDOM  
T: +44 (0) 1252 226617

SEAL

Sheet Reference No.  
**H-102**  
INDEX: 12 OF 20



PLAN  
SCALE: 1:500

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- NOTES**
- TOPOGRAPHICAL SURVEY UNDERTAKEN BY MERRETT SURVEY LIMITED IN NOVEMBER 2023.
  - GROUND INVESTIGATION REPORT UNDERTAKEN BY RED ROCK GEO IN JANUARY 2024.

- LEGEND**
- PHASE 1 WORKS
  - PHASE 2 WORKS



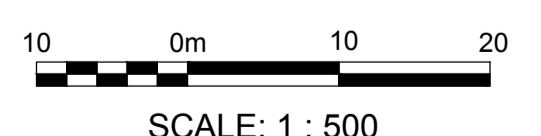
CD	Mark	ISSUED FOR CONSTRUCTION	Description	Date	DT	Appr.
				2024-03-12		

EXMOUTH WALL URGENT WORKS  
- PHASE 1

BOREHOLE LAYOUT PLAN



KEY PLAN



SCALE: 1 : 500  
CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

Designed by: J.WATTS	Date: 2024-03-23	Rev. 	CD 
Dwn by: P.VASS	MAN Project No: 232859		
Chd by: H.RUSHTON	Drawing code: 		
Reviewed by: H.HALL	Drawing Scale: AS NOTED		
Submitted by: MOFFATT & NICHOL	Plot scale: 1:1 (Metric D)		

3132 SOUTHERNHAY EAST  
EXETER DEVON EX1 1NS  
UNITED KINGDOM  
T +44 (0) 1252 226617

SEAL

Sheet Reference No.  
**B-101**

INDEX: 13 OF 20

File: Q:\FN\232659\20 CAD\1\_Active\Sheet\232659B-101 ; Plotted: 3/26/2024 9:29 AM by MAYLES, MELISSA ; Saved: 3/12/2024 3:20 PM by P.VASS

**STRUCTURAL NOTES**

**1. GENERAL NOTES:**

- 1.1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 1.2. ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN (mOD) UNLESS STATED OTHERWISE.
- 1.3. TIDAL INFORMATION

	mOD	mCD
MEAN HIGH WATER SPRINGS	+2.16	+4.60
MSL	+0.00	+2.44
MEAN LOW WATER SPRINGS	-1.94	+0.50

**2. GEOTECHNICAL INFORMATION:**

- 2.1. GEOTECHNICAL INFORMATION IS AS PER THE GROUND INVESTIGATION REPORT REF. 10770 (RED ROCK, JAN. 2024).
- 2.2. SOIL LAYERS IN TYPICAL SECTION ARE AS PER THE GROUND INVESTIGATION REPORT REF. 10770 ( RED ROCK, JAN. 2024).
- 2.3. THE CONTRACTOR SHOULD MAKE PROVISIONS TO ACCOUNT FOR POSSIBLE VARIATIONS IN SOIL LAYERS THICKNESS.
- 2.4. SOIL PROPERTIES ARE AS IN THE FOLLOWING TABLE.

STRATUM	UNIT WEIGHT (Mg/m <sup>3</sup> )		HORIZONTAL DRAINED STIFFNESS (MPa)	SHEAR STRENGTH		
	ABOVE GW	BELOW GW		UNDRAINED CONDITION	DRAINED CONDITION	
				S <sub>v</sub> (kPa)	c' (kPa)	φ (°)
MADE GROUND: SUB-BASE	UNITS	N/A	72.0	N/A	0	40
MADE GROUND: LOOSE POORLY-GRADED SAND	17.0	20.0	4.0	N/A	0	30
MADE GROUND: SOFT TO FIRM SANDY CLAY	17.0	17.0	7.5	35	0	28
BEACH SAND (LOOSE)	17.0	20.0	6.8	N/A	0	30
BEACH SAND (MEDIUM DENSE)	18.0	20.5	13.5	N/A	0	30
'ALLUVIAL' SAND AND GRAVEL (LOOSE)	19.0	21.5	16.0	N/A	0	34
'ALLUVIAL' SAND AND GRAVEL (MEDIUM DENSE / DENSE)	20.5	22.0	60.0	N/A	0	38
EXMOUTH MUDSTONE / SANDSTONE FORMATION (CLAY)	19.0	19.0	25.0	100	2	27
EXMOUTH MUDSTONE / SANDSTONE FORMATION (MUDSTONE)	20.0	20.0	60.0	250	5	32

**3. CONSTRUCTION NOTES:**

- 3.1. ANCHOR TESTING AND THE VERIFICATION OF DESIGN PARAMETERS TO BE COMPLETED BEFORE START OF CONSTRUCTION.
- 3.2. INSTALL SHEET PILES TO THE EMBEDMENT DEPTHS SHOWN. IF MINIMUM EMBEDMENT INTO MUDSTONE (AS DETERMINED BY BLOW COUNT AND DRIVING CONDITION) IS NOT ACHIEVED, CONTACT ENGINEER FOR FURTHER INSTRUCTION.
- 3.3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TYPES OF EQUIPMENT THAT CAN SAFELY BE USED TO EXECUTE THE WORK.
- 3.4. ANCHORS DRILLING METHODS AND TOLERANCES SHOULD CONFORM TO BS EN 1537.
- 3.5. PROVISION FOR THE REDIRECTIONS OF SERVICES NEED TO BE MADE WHERE APPROPRIATE FOR THE INSTALLATION OF THE SHEET PILES.
- 3.6. DURING SHEET PILES AND ANCHORS INSTALLATION, CONTRACTOR SHALL TAKE MEASURES TO GUARANTEE THAT NO DAMAGES ARE INDUCED TO THE REMAINING EXISTING WALL AND ADJACENT CONSTRUCTIONS (ROAD, BUILDING, ETC.).

**3.7. ANCHORED WALL DESIGN ASSUMES THE FOLLOWING TYPICAL CONSTRUCTION SEQUENCE:**

- 3.7.1. ANCHOR TESTING AND VERIFICATION OF DESIGN PARAMETERS
- 3.7.2. BREAK OUT EXISTING PARAPET
- 3.7.3. INSTALL SHEET PILES
- 3.7.4. INSTALL WAILING BEAM
- 3.7.5. INSTALL GROUND ANCHORS
- 3.7.6. DEMOLISH EXISTING WALL AFTER COMPLETION OF TIE-INS WITH EXISTING SEA WALL
- 3.7.7. INSTALL FINISHES AND HANDRAIL
- 3.7.8. INSTALL REINFORCED CONCRETE CLADDING (PHASE 2)

**4. STRUCTURAL STEEL:**

- 4.1. SHEET PILES TO BE PU32<sup>1</sup> BY ARCELOR MITTAL OR SIMILAR APPROVED, EN 10248 S 355 GP.
- 4.2. WAILING BEAMS TO BE 2No. UPN220, BS EN 10025 S 355.
- 4.3. SPLICE FOR WAILING BEAM TO BE 2No. UPN160, BS EN 10025 S355.
- 4.4. UA200x150x12 FOR CONNECTION OF TEMPORARY HANDRAIL, BS EN 10025 S355, PAINTED FOR MIN. 5 YEARS PROTECTION.
- 4.5. STEEL PLATES TO BE GRADE BS EN 10025 S 355.
- 4.6. SECTIONS, MATERIALS AND EXECUTION IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

**5. BOLTS:**

- 5.1. BOLTS FOR WALING CONNECTION TO SHEET PILING TO BE M39 HEADED BOLT CLASS 8.8.
- 5.2. BOLTS FOR HANDRAIL CONNECTION TO SHEET PILING TO BE M10 GRADE 8.8 STEEL BOLTS.
- 5.3. ALL OTHER BOLTS TO BE AS INDICATED ON DRAWINGS.

**6. GROUND ANCHORS:**

- 6.1. PERMANENT GROUND ANCHOR SYSTEM TO COMPRISE ISCHEBECK TITAN, 52/29 HOLLOW BARS, 115mm CORE, OR SIMILAR APPROVED.
- 6.2. BOREHOLE ANCHOR GROUT TO CONFORM TO BS EN 1537. MIX TO HAVE MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 40MPa AT 28 DAYS. WATER/CEMENT RATION TO NOT EXCEED 0.45.
- 6.3. STEEL COMPONENTS OF ANCHOR TENDON AND ASSOCIATED STEEL PARTS TO CONFORM TO BS EN 1537.
- 6.4. EXTENT , LENGTH AND SPACING OF GROUND ANCHORS AS SHOWN ON DRAWINGS.
- 6.5. GROUND ANCHOR FORCES TO BE

CASE	(kN/m)	(kN)
SLS	88	106
ULS	142	171
ACCIDENTAL	177	212

- 6.6. FINAL DESIGN OF THE ANCHORS SHOULD BE VERIFIED BY TESTING IN ACCORDANCE WITH BS EN ISO 22477-5.

**7. DURABILITY:**

- 7.1. CONCRETE CLADDING TO ACT AS CORROSION PROTECTION SYSTEM IN THE SEAWARD FACE OF THE SHEET PILE WALL. TO BE INSTALLED IN PHASE 2.
- 7.2. BURIED FACES OF THE SHEET PILE WALL REMAINING STEEL ELEMENTS ALLOW FOR SACRIFICIAL THICKNESS LOSS.

**8. CONCRETE:**

- 8.1. ALL CONCRETE TO BE GRADE BS EN206 C40/50.
- 8.2. ANY CONSTRUCTION JOINTS TO BE AGREED BETWEEN CONTRACTOR AND ENGINEER.
- 8.3. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS AND SUPPORT BARS.
- 8.4. ALL PERMANENTLY EXPOSED CONCRETE CORNERS TO HAVE A CHAMFER OF 25mm X 25mm.
- 8.5. CONCRETE COVER TO BE IN ACCORDANCE WITH THE DRAWINGS. MAXIMUM SIZE OF AGGREGATE TO BE 20mm.
- 8.6. FINISHES TO BE IN ACCORDANCE WITH EN13670.

**9. REINFORCEMENT:**

- 9.1. STEEL REINFORCEMENT SHALL CONFORM TO EN10080 GRADE B500B, YIELD STRENGTH FY=500N/mm<sup>2</sup>.
- 9.2. MINIMUM ANCHORAGE AND LAP LENGTH SHOULD BE IN ACCORDANCE WITH EN-1992-1-1:2004, OR AS STATED IN THE DRAWINGS, WHICHEVER IS GREATER.

**10. DESIGN AND CONSTRUCTION FOLLOW THE FOLLOWING STANDARDS:**

- BS EN 1993
- BS EN 1997
- BS 1537
- BS 8081
- EN 10248

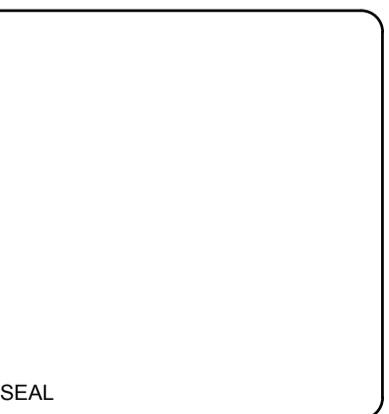


Rev.	Date	Description	MD	MD	Appr.
C1	2024-03-12	ISSUED FOR CONSTRUCTION			
	2024-03-15	UPDATED TO SUIT CONTRACTOR COMMENTS			

**EXMOUTH WALL URGENT WORKS - PHASE 1**  
**STRUCTURAL GENERAL NOTES**

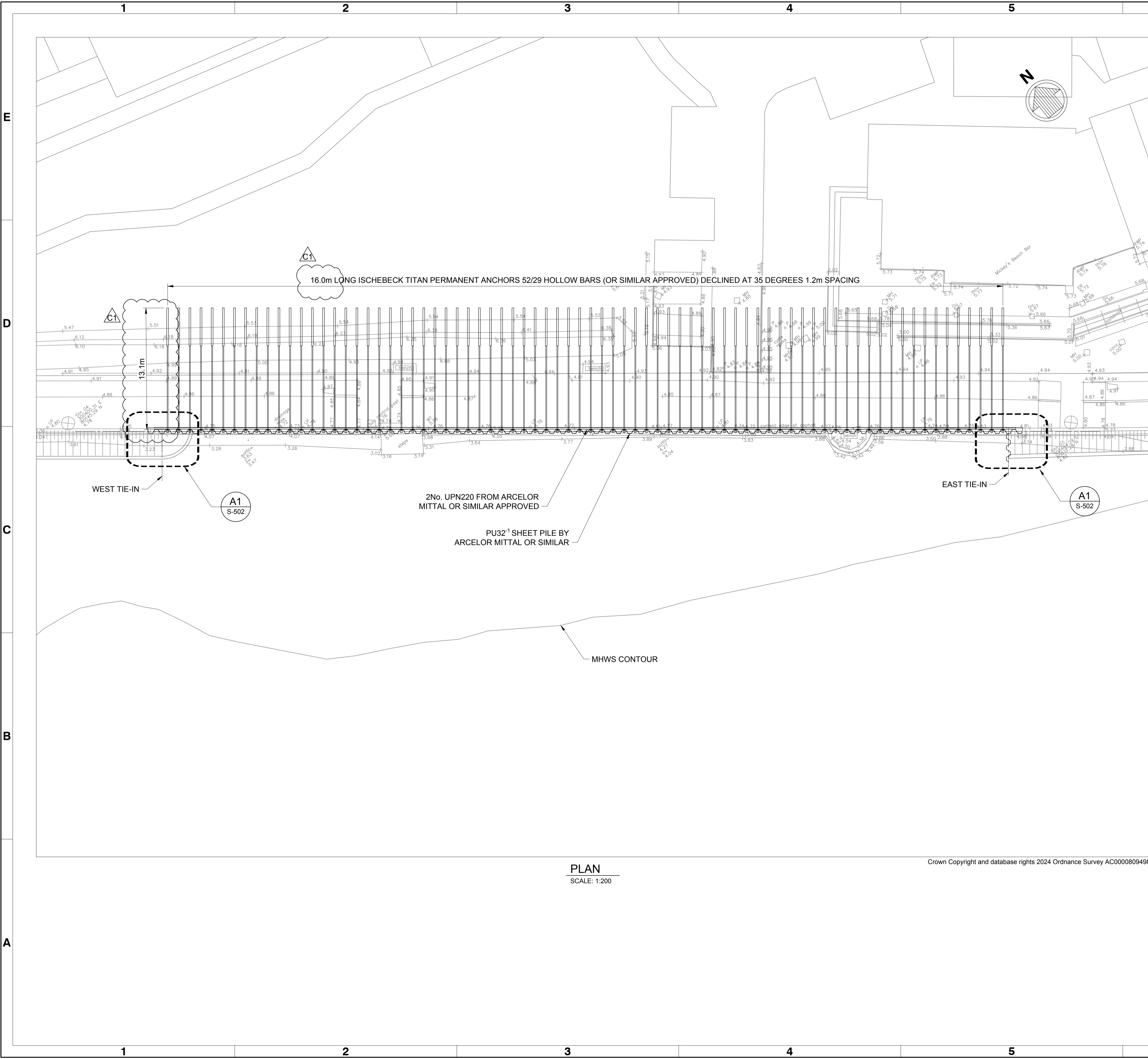
Designed by:	E. KAVALLERATOU	Date:	2024-02-16	Rev.	C1
Dwn by:	P. VASS	MAN Project No:	232659		
Checked by:	M. DIAS	Drawing code:			
Reviewed by:	T. FREIRE	Drawing Scale:	AS NOTED		
Submitted by:	MOFFATT & NICHOL	Plot scale:	1:1 (Metric D)		

3102 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T: +44 (0) 1252 22617



Sheet Reference No. **S-001**  
 INDE: 14 OF 20

CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
 ISSUED: 2024-03-12



PLAN  
SCALE: 1:200

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**NOTES**

1. TOPOGRAPHICAL SURVEY UNDERTAKEN BY MERRETT SURVEY LIMITED IN NOVEMBER 2023.
2. FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001
3. LIGHTING COLUMNS (5No.) TO BE REMOVED PRIOR TO CONSTRUCTION AND REINSTATED.

**LEGEND**

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

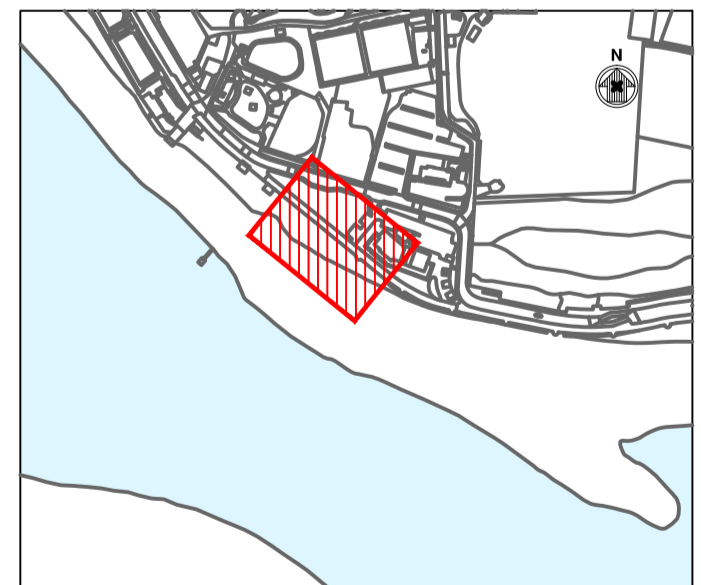
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- SSSI & SPA - NOISE IMPACTS
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH
- ACCESS RAMP - RESTRICTED ACCESS
- DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS
- INTERTIDAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

**DEMOLITION**



**KEY PLAN**



SCALE: 1 : 200

CONSTRUCTION ISSUE-2024-03-12

**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



Mark	Description	Date	MD	Appr.
C1	UPDATED TO SUIT CONTRACTORS COMMENTS	2024-03-15	MD	
CD	ISSUED FOR CONSTRUCTION	2024-03-12	MD	

**EXMOUTH WALL URGENT WORKS - PHASE 1**

**ANCHORED SHEET PILE WALL LAYOUT PLAN**

Designed by: E. KAVALERATOU	Date: 2024-02-16	Rev: C1
Dwn by: P. VASS	MAN Project No: 232859	
Reviewed by: T. FREIRE	Chd by: M. DIAS	Drawing code:
Submitted by: MOFFATT & NICHOL	Drawing Scale: AS NOTED	Plot scale: 1:1 (Metric D)

31/22 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T: +44 (0) 1282 226617

SEAL

Sheet Reference No.  
**S-101**  
INDEX: 15 OF 20

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Rev.	Date	By	Description
C3	2024-03-12	MD	SPALICE BOLT SPACING ADDED
C2	2024-03-18	MD	TO ADDRESS CONTRACTORS COMMENTS
C1	2024-03-15	MD	UPDATED TO SUIT CONTRACTORS COMMENTS
C0	2024-03-12	MD	ISSUED FOR CONSTRUCTION

EXMOUTH WALL URGENT WORKS  
- PHASE 1

ANCHORED SHEET PILE WALL  
TYPICAL SECTION AND DETAILS

Date:	2024-03-16	Rev:	C2
MAN Project No:	232659	MAN Project No:	232659
MAN Project No:	232659	MAN Project No:	232659
MAN Project No:	232659	MAN Project No:	232659
MAN Project No:	232659	MAN Project No:	232659
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MAN Project No:	232659	MAN Project No:	232659
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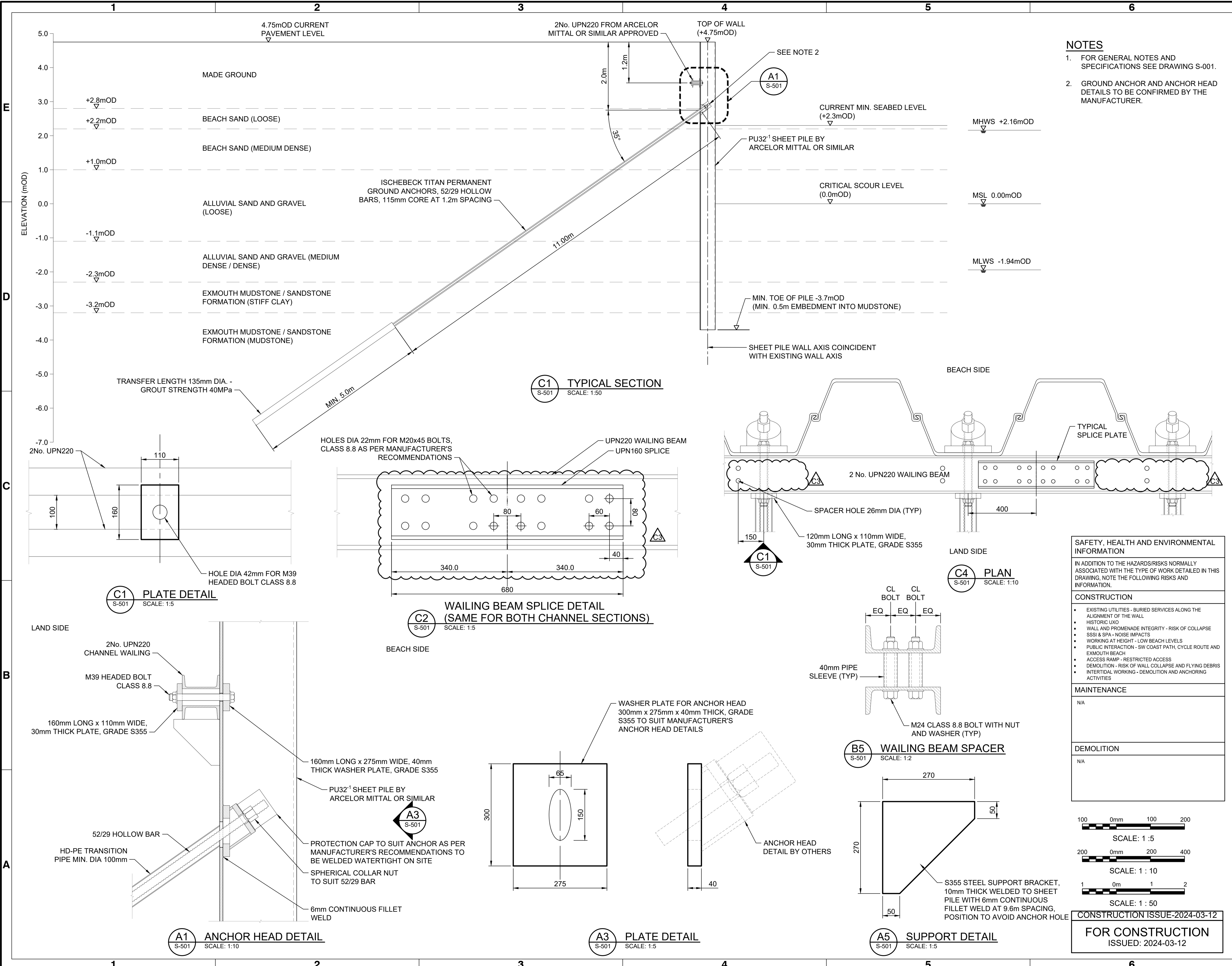
3132 SOUTHERNHAY EAST  
EXETER DEVON EX1 1NS  
UNITED KINGDOM  
T: +44 (0) 1526 226617

**moffatt & nichol**

Sheet Reference No.  
**S-501**

INDEX: 16 OF 20

- NOTES**
- FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001.
  - GROUND ANCHOR AND ANCHOR HEAD DETAILS TO BE CONFIRMED BY THE MANUFACTURER.



**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

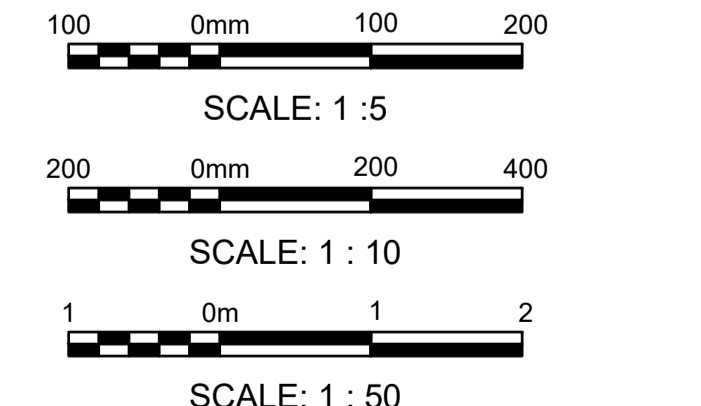
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- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- SSSI & SPA - NOISE IMPACTS
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH
- ACCESS RAMP - RESTRICTED ACCESS
- DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS
- INTERMITTENT WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

N/A

**DEMOLITION**

N/A



CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



Rev.	Date	MD	Appr.
C1	2024-03-12	MD	Appr.
CD	2024-03-12	MD	Appr.

**EXMOUTH WALL URGENT WORKS - PHASE 1**

**ANCHORED SHEET PILE WALL - TIE-IN DETAILS**

Designed by:	E. KAVALLERATOU	Date:	2024-02-16	Rev.	C1
Dwn by:	P. VASS	MAN Project No.:	232859		
Checked by:	M. DIAS	Drawing code:			
Reviewed by:	T. FREIRE	Drawing Scale:	AS NOTED		
Submitted by:	MOFFATT & NICHOL	Plot scale:	1:1 (Metric D)		

31/22 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T +44 (0) 1282 226617

SEAL

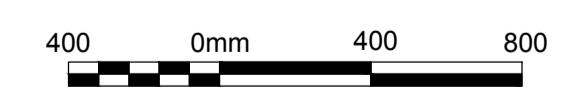
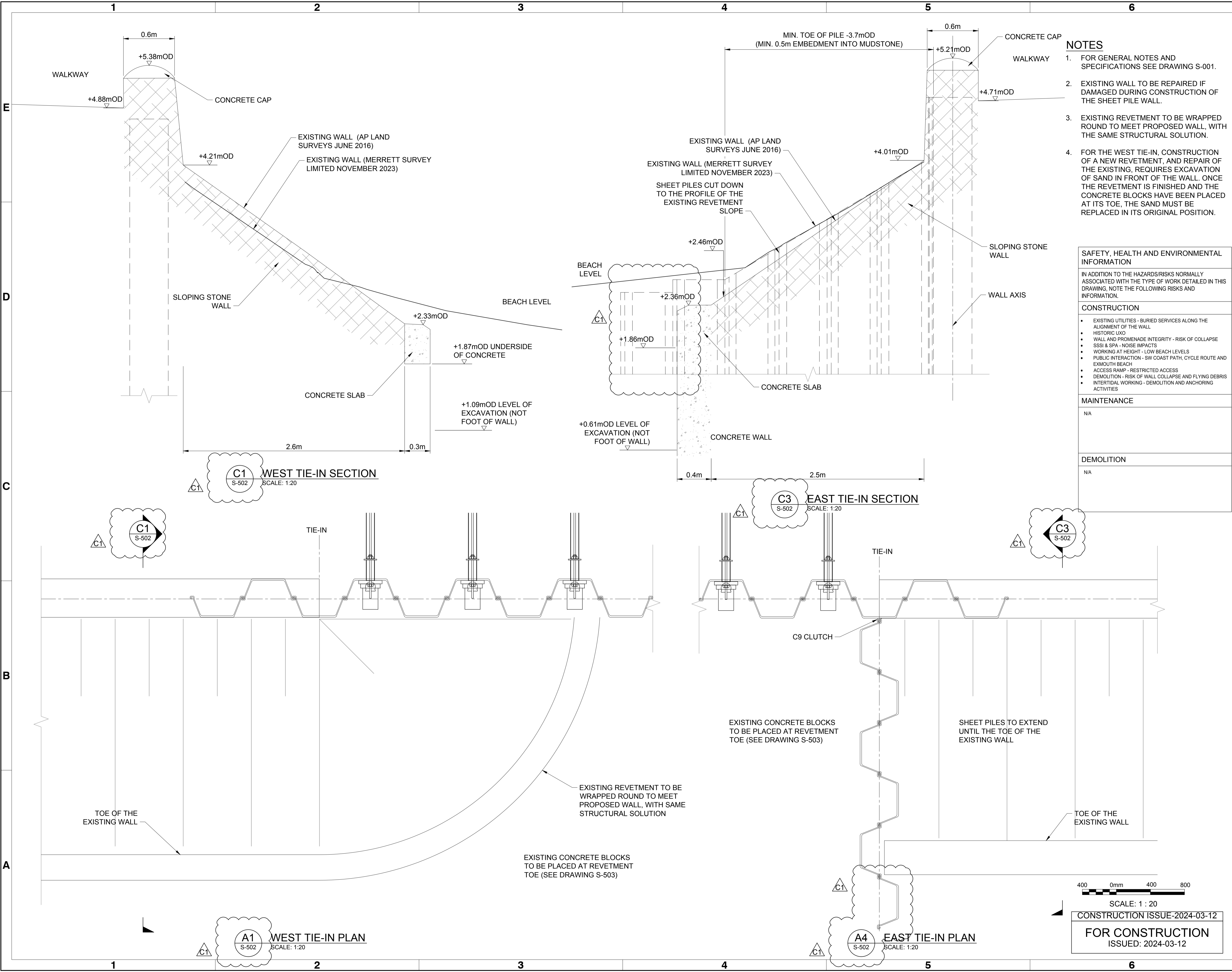
Sheet Reference No. **S-502**  
INDEX: 17 OF 20

- NOTES**
- FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001.
  - EXISTING WALL TO BE REPAIRED IF DAMAGED DURING CONSTRUCTION OF THE SHEET PILE WALL.
  - EXISTING REVETMENT TO BE WRAPPED ROUND TO MEET PROPOSED WALL, WITH THE SAME STRUCTURAL SOLUTION.
  - FOR THE WEST TIE-IN, CONSTRUCTION OF A NEW REVETMENT, AND REPAIR OF THE EXISTING, REQUIRES EXCAVATION OF SAND IN FRONT OF THE WALL. ONCE THE REVETMENT IS FINISHED AND THE CONCRETE BLOCKS HAVE BEEN PLACED AT ITS TOE, THE SAND MUST BE REPLACED IN ITS ORIGINAL POSITION.

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

<b>CONSTRUCTION</b>
<ul style="list-style-type: none"> <li>EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL</li> <li>HISTORIC UXO</li> <li>WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE</li> <li>SSSI &amp; SPA - NOISE IMPACTS</li> <li>WORKING AT HEIGHT - LOW BEACH LEVELS</li> <li>PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH</li> <li>ACCESS RAMP - RESTRICTED ACCESS</li> <li>DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS</li> <li>INTERTIDAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES</li> </ul>
<b>MAINTENANCE</b>
N/A
<b>DEMOLITION</b>
N/A



SCALE: 1 : 20  
CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

**NOTES**

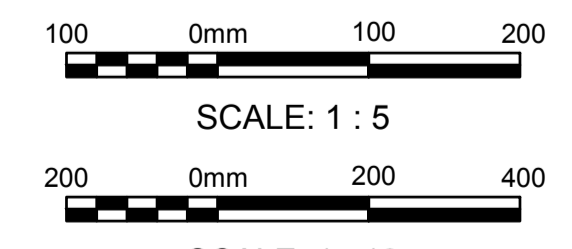
1. UA 200x150x12 SECTION BOLTED TO THE SHEET PILE AT 1200mm CENTRES TO ACCOMMODATE VERTICAL POST AND BASE PLATE.
2. HANDRAIL VERTICAL POST AND SUPPORTING BASE PLATE TO BE POSITIONED AT 1200mm CENTRE SPACING.
3. ALL CAST IN ITEMS TO BE HOT DIPPED GALVANISED TO BS EN 1461 FOR 15 YEARS DESIGN LIFE.

Rev	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
Date	Description	Date	Description	Date	Description	Date	Description	Date	Description	Date
C2	UPDATED TO CLIENT SPECIFIED FINISH	2024-04-02								
C1	UPDATED TO CONTRACTOR SPECIFIED BOLTS	2024-03-18								
C0	ISSUED FOR CONSTRUCTION	2024-03-12								

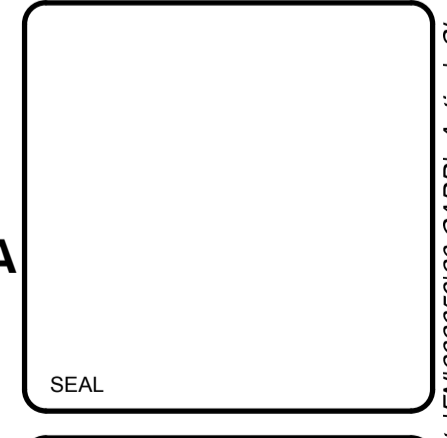
**EXMOUTH WALL URGENT WORKS - PHASE 1**  
**ANCHORED SHEET PILE WALL HANDRAIL DETAILS**

Designed by:	C. RUST	Drawn by:	P. VASS	Reviewed by:	T. FREIRE	Submitted by:	M. OFFICER & NICHOL
Date:	2024-02-16	MAN Project No:	232659	Drawing code:		Plot scale:	1:1 (Metric D)
3102 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T +44 (0) 1252 226617							

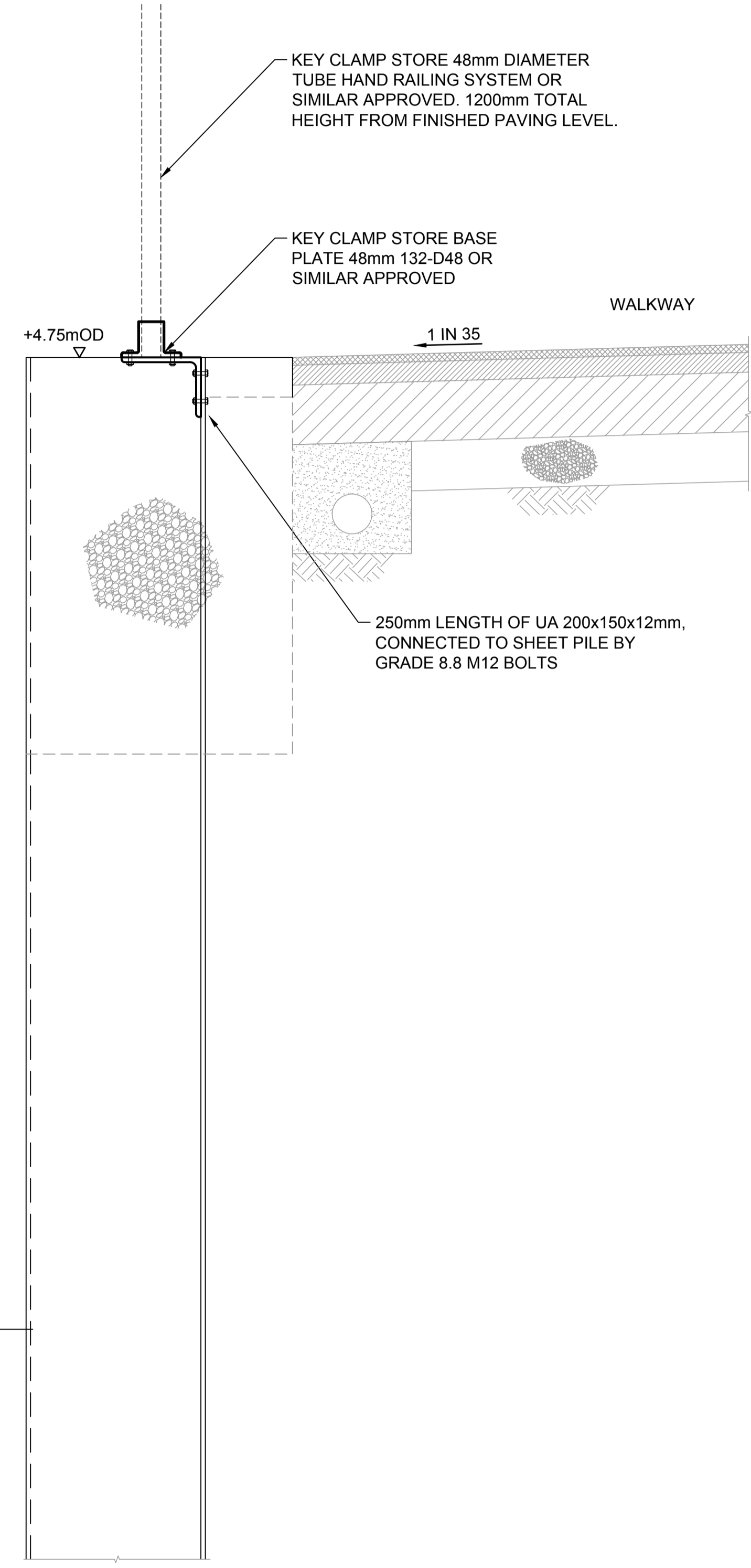
<b>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</b>
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.
<b>CONSTRUCTION</b>
<ul style="list-style-type: none"> <li>• WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE</li> <li>• WORKING AT HEIGHT - LOW BEACH LEVELS</li> <li>• PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH</li> </ul>
<b>MAINTENANCE</b>
NA
<b>DEMOLITION</b>
NA



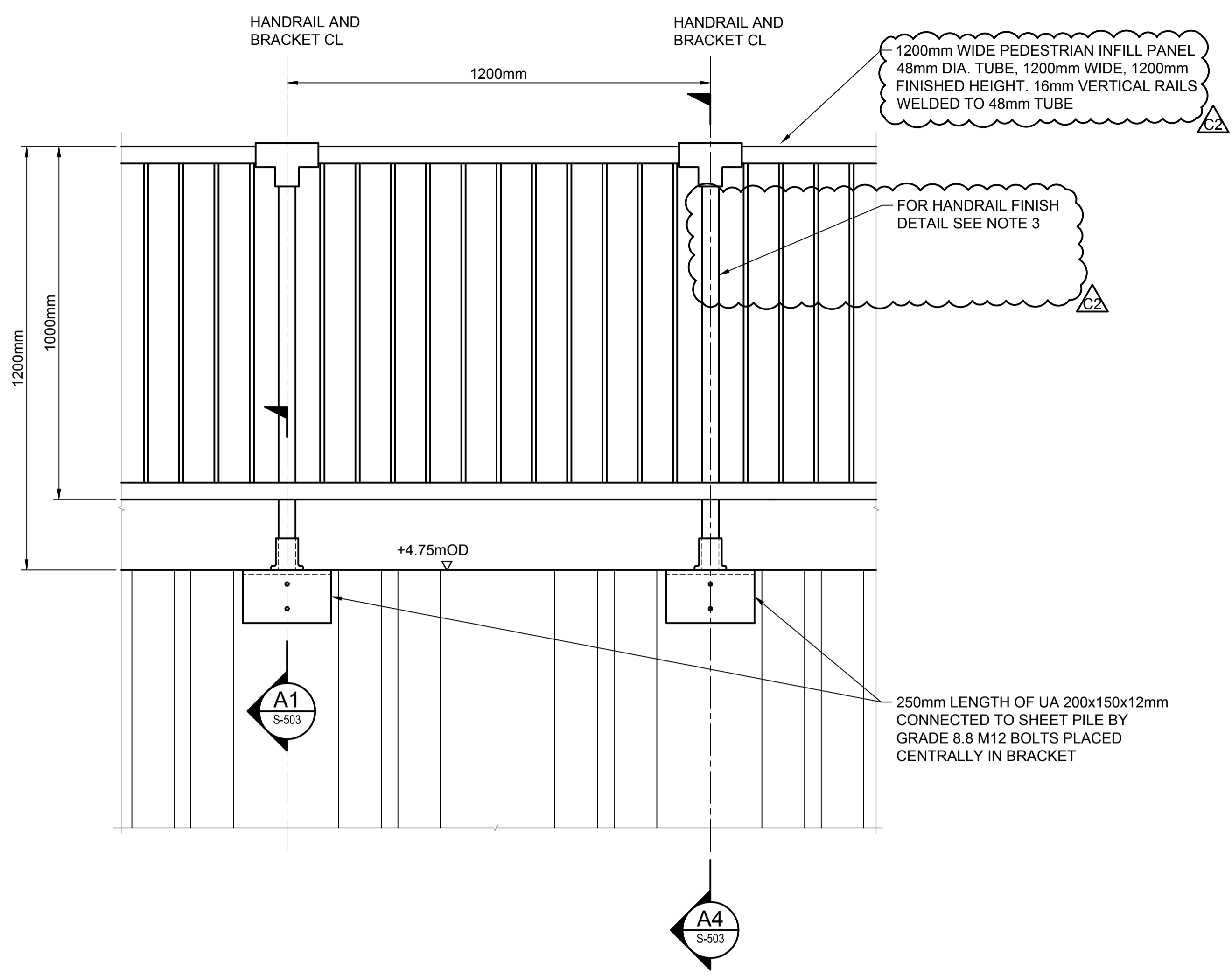
CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12



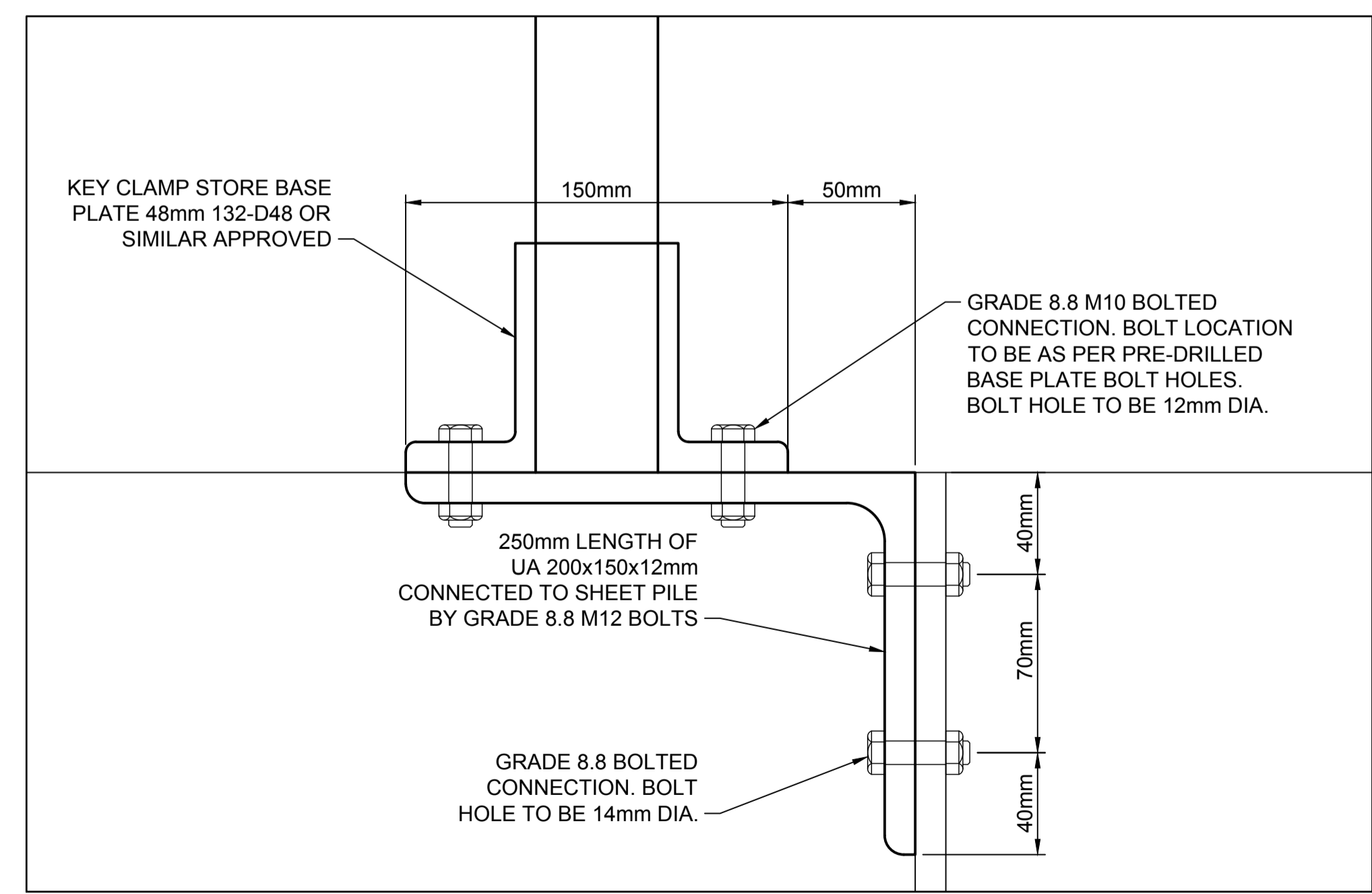
Sheet Reference No.  
**S-503**  
INDEX: 18 OF 20



**A4 SECTION THROUGH HANDRAIL**  
SCALE: 1:10



**C1 HANDRAIL ELEVATION**  
SCALE: 1:10



**A1 SECTION THROUGH BASEPLATE**  
SCALE: 1:5

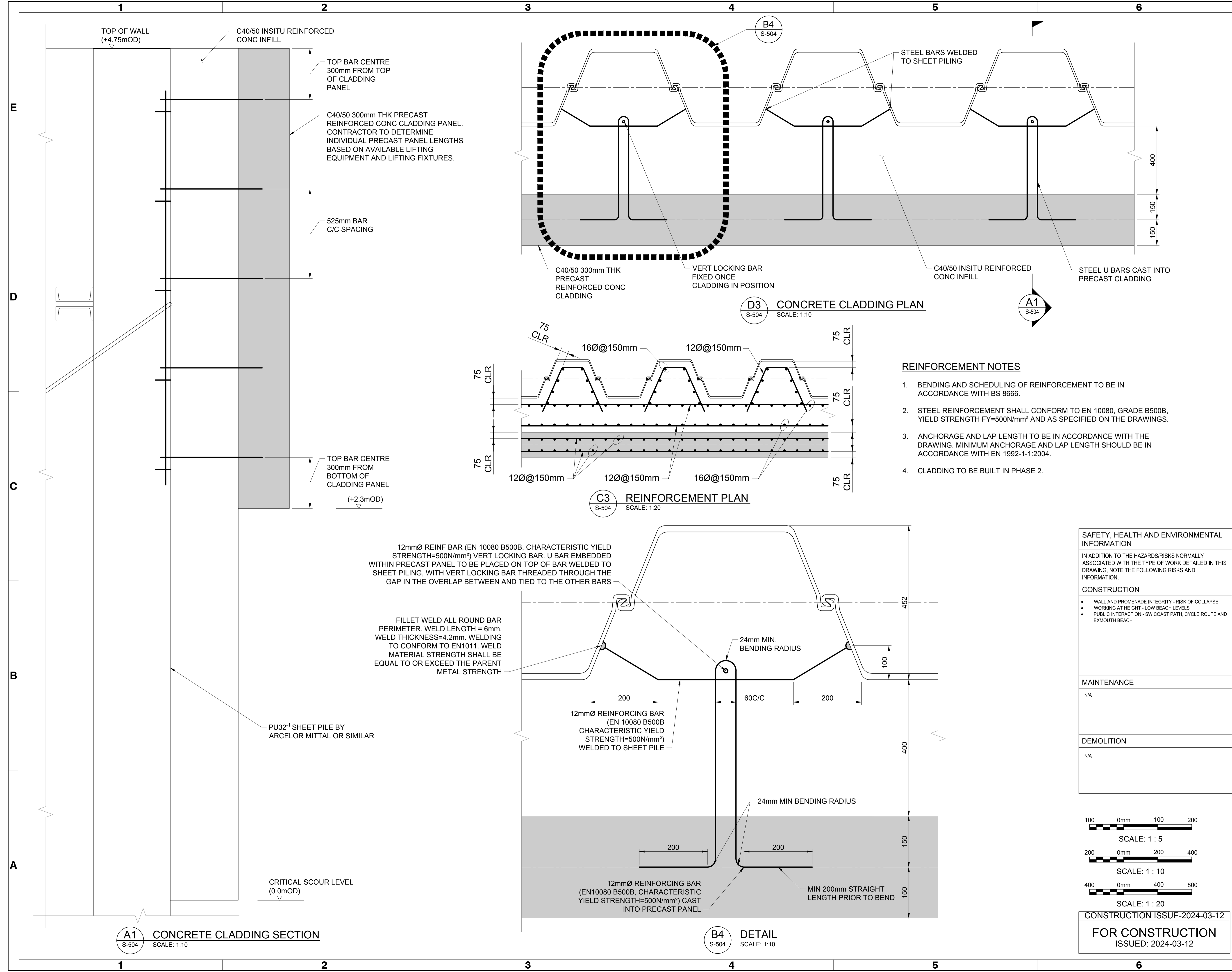
Rev.	Date	Description	MD	Appr.
1	2024-03-12	ISSUED FOR CONSTRUCTION		

EXMOUTH WALL URGENT WORKS - PHASE 1  
ANCHORED SHEET PILE WALL CLADDING DETAILS

Rev.	Date	CD
1	2024-03-07	

Designed by: J. WATTS	MAN Project No: 232659	Drawn by: P. VASS	Checked by: E. KAVALENTOU	Reviewed by: T. FREIRE	Submitted by: MOFFATT & NICHOL
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31/32 SOUTHERNHAY EAST EXETER DEVON EX1 1NS UNITED KINGDOM T +44 (0) 1525 226617	31/11/2024 7:10 PM by P.VASS
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- REINFORCEMENT NOTES**
- BENDING AND SCHEDULING OF REINFORCEMENT TO BE IN ACCORDANCE WITH BS 8666.
  - STEEL REINFORCEMENT SHALL CONFORM TO EN 10080, GRADE B500B, YIELD STRENGTH  $F_y=500N/mm^2$  AND AS SPECIFIED ON THE DRAWINGS.
  - ANCHORAGE AND LAP LENGTH TO BE IN ACCORDANCE WITH THE DRAWING. MINIMUM ANCHORAGE AND LAP LENGTH SHOULD BE IN ACCORDANCE WITH EN 1992-1-1:2004.
  - CLADDING TO BE BUILT IN PHASE 2.

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

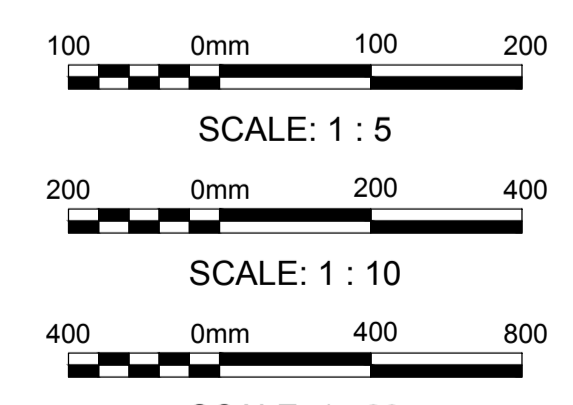
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH

**MAINTENANCE**

N/A

**DEMOLITION**

N/A



CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
ISSUED: 2024-03-12

- NOTES**
- TOPOGRAPHICAL SURVEY UNDERTAKEN BY MERRETT SURVEY LIMITED IN NOVEMBER 2023.
  - FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING S-001
  - LIGHTING COLUMNS (5No.) TO BE REMOVED PRIOR TO CONSTRUCTION AND REINSTATED.

CD	Mark	Description	Date	Appr.
CD		ISSUED FOR CONSTRUCTION	2024-03-12	

**LEGEND**

EXTENT OF WALL TO BE DEMOLISHED

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

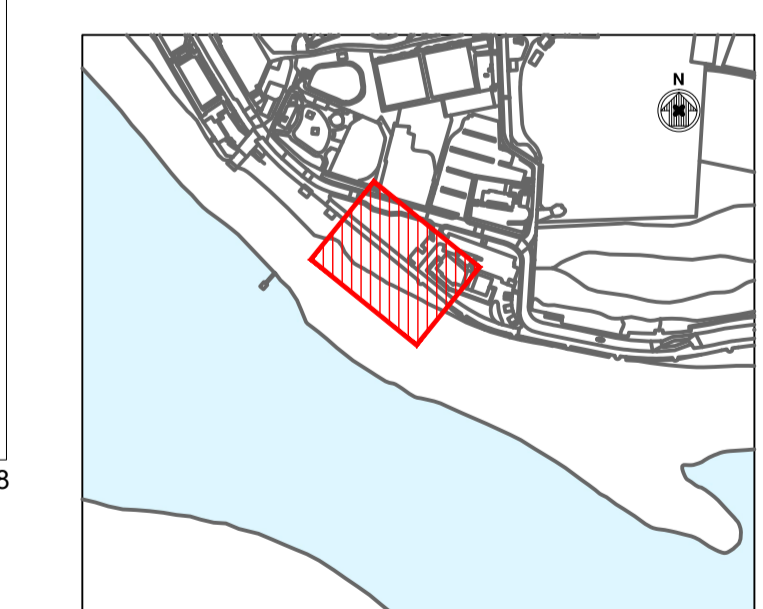
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED IN THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

**CONSTRUCTION**

- EXISTING UTILITIES - BURIED SERVICES ALONG THE ALIGNMENT OF THE WALL
- HISTORIC UXO
- WALL AND PROMENADE INTEGRITY - RISK OF COLLAPSE
- SSSI & SPA - NOISE IMPACTS
- WORKING AT HEIGHT - LOW BEACH LEVELS
- PUBLIC INTERACTION - SW COAST PATH, CYCLE ROUTE AND EXMOUTH BEACH
- ACCESS RAMP - RESTRICTED ACCESS
- DEMOLITION - RISK OF WALL COLLAPSE AND FLYING DEBRIS
- INTERDIAL WORKING - DEMOLITION AND ANCHORING ACTIVITIES

**MAINTENANCE**

**DEMOLITION**



**KEY PLAN**



SCALE: 1 : 200

CONSTRUCTION ISSUE-2024-03-12  
**FOR CONSTRUCTION**  
 ISSUED: 2024-03-12

**EXMOUTH WALL URGENT WORKS - PHASE 1**

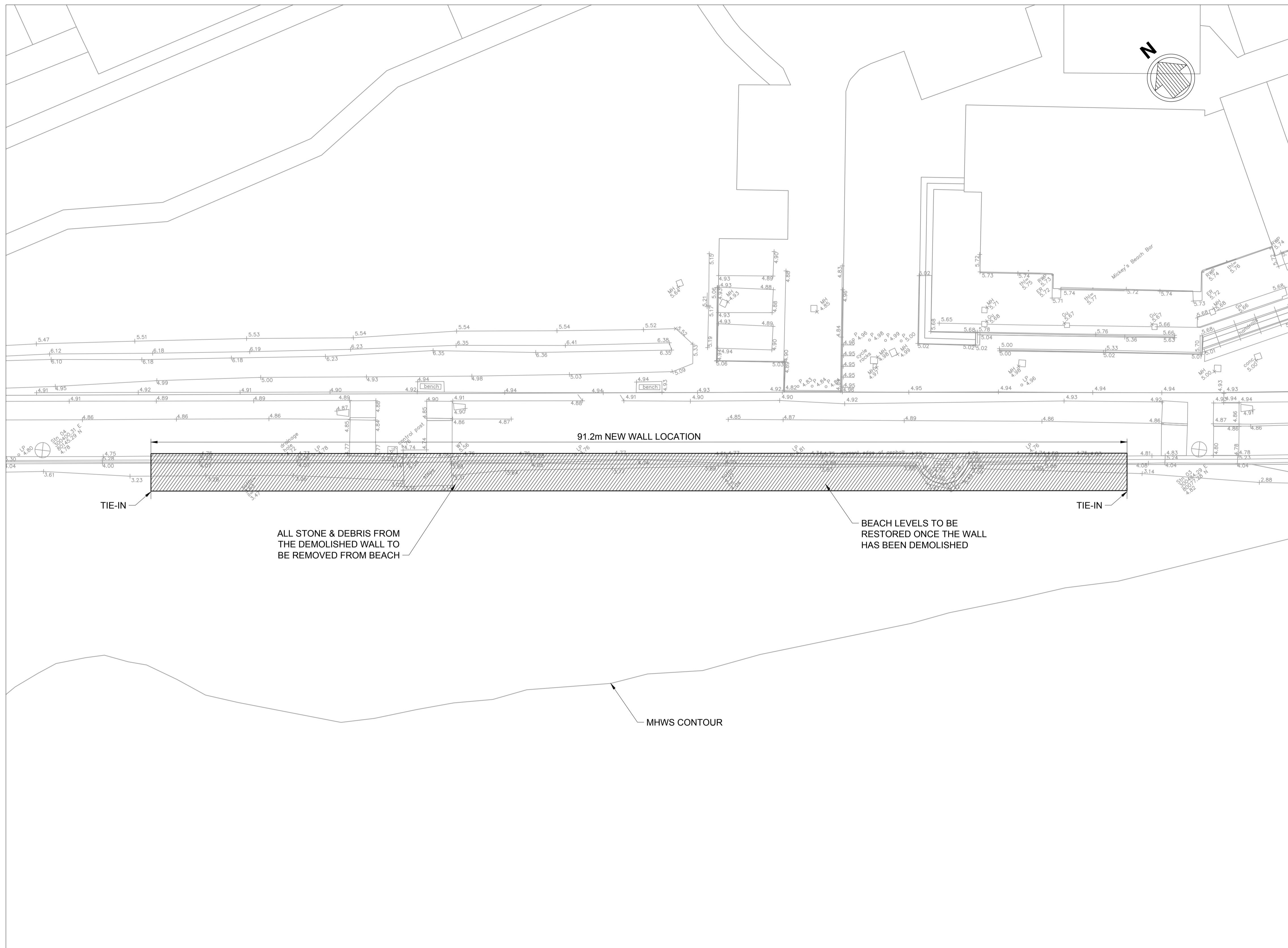
**EXISTING WALL DEMOLITION PLAN**

Designed by:	J.WATTS	Date:	2024-03-23	Rev.	CD
Dwn by:	P.VASS	MAN Project No:	232659		
Reviewed by:	T.FREIRE	CD by:	M.DIAS	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS NOTED	Plot scale:	1:1 (Metric D)

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SEAL

Sheet Reference No.  
**SD101**  
 INDEX: 20 OF 20



**PLAN**  
 SCALE: 1:200

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