

NOTE: EXISTING GEOMETRY OF CONCRETE STEPPED REVETMENT, INCLUDING NUMBER / EXTENT OF STEPS, REVETMENT TOE LEVEL AND GROUND SURFACE LEVELS, VARIES AT CENTRAL AND EAST OUTFALL LOCATIONS. CULVERT AND ROCK ARMOUR LEVELS TO VARY AT EACH LOCATION ACCORDINGLY.

ROCK ARMOUR FORMED IN DOUBLE INTERLOCKING LAYER (3-6) MIN. 2100mm THICK

ROCK SURFACE LEVEL AT PILE INTERFACE VARIES BETWEEN 4.24mAOD (EAST) TO 3.68mAOD (CENTRAL)

ROCK ARMOUR REVETMENT TO BE SET OUT FROM EXISTING SHEET PILE OR CONCRETE TOE LEVEL. LEVEL VARIES FOR CENTRAL AND EAST OUTFALL LOCATIONS

EXISTING SEA WALL TO EITHER BE CORED THROUGH TO ALLOW NEW CULVERT PIPES TO PASS THROUGH EXISTING SEA WALL OR TO BE BROKEN OUT AT CULVERT LOCATIONS AND REPLACED WITH A NEW RC SEA WALL WITH PROFILE TO MATCH EXISTING

CONCRETE PAVEMENT PROMENADE TO BE REINSTATED OVER CULVERTS TO MATCH EXISTING AND RUN FLUSH WITH ADJACENT PROMENADE SURFACE

2 NO. PRECAST RC STANDARD PIPES WITH 900mm INTERNAL DIAMETER AND 1080mm EXTERNAL DIAMETER

SEE DR-C-2302 PLAN - TYPICAL INLET STRUCTURE

EXISTING EARTH SLOPE TO BE EXCAVATED AND RE-PROFILLED TO TIE-IN WITH CONCRETE HEADWALL AND WINGWALLS

NON-RETURN VALVE WITH SECURITY SCREEN TO BE FIXED TO CULVERT OUTLETS. RISK OF VANDALISM TO BE FURTHER ASSESSED AT DETAILED DESIGN

NEW SECURE ACCESS GATE TO PROVIDE ACCESS TO TOP OF HEADWALL STRUCTURE FOR MAINTENANCE

RE-INSTALL FENCE ALONG EXISTING ALIGNMENT TO MATCH EXISTING

NEW WALKWAY TO PROVIDE ACCESS FOR CULVERT MAINTENANCE

RC RETAINING WALL

RC APRON SLAB

RIP-RAP FILLED TRENCH

INDICATIVE AREA OF CONCRETE STEPPED REVETMENT WHERE CONCRETE PATCH REPAIRS ARE TO BE UNDERTAKEN IN AREAS WITH SIGNIFICANT CONCRETE DEFECTS. SITE INVESTIGATION TO BE UNDERTAKEN TO INFORM EXACT EXTENT OF PATCH REPAIRS REQUIRED.

LARGEST ROCK TO BE USED AS KEYSTONE (MIN. 5.5t)

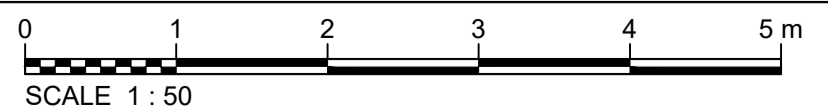
ROCK SURFACE LEVEL AT PILE INTERFACE VARIES BETWEEN 4.24mAOD (EAST) TO 3.68mAOD (CENTRAL)

CONCRETE STEPPED REVETMENT

EXISTING CONCRETE PAVEMENT PROMENADE

EARTH BANK

TYPICAL OUTFALL PLAN
SCALE 1 : 50



General Notes

- All dimensions are shown in millimetres unless otherwise stated and levels are in Ordnance Datum. All co-ordinates are based on Ordnance Datum Newlyn with the OS active network using the geoid model OSGM15.
- Do not scale from this drawing. All dimensions must be checked/verified at detailed design and on site.
- All levels quoted were relevant at the time of survey (October 2020). Levels and setting out should be checked by the site engineer to ensure the quoted levels are still relevant at the time of construction.
- All works on the coast will be carried out with care to minimise the risk of pollution adhering to Pollution Prevention Guidelines.
- All works affecting flood defences, main watercourses and/or ordinary watercourses will be subject to Consent for Permanent and Temporary Works under the Land Drainage Act 1991.
- All dimensions and details are intended to show design intent only, and are subject to minor alterations during detailed design.

Safety, Health and Environment information

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks

Construction		
C13		Lifting operations
C22		Sheet pile depth unknown and in poor condition
C25		Very high UXO risk
Operation and Maintenance		
O&M2		Breach along existing frontline defence
Demolition		

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

- TYPE D: DESK STUDY
- TYPE C: DESK STUDY AND SITE RECONNAISSANCE
- TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
- TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
12/10/2020	01/02/2021		

THE POSITION OF ANY EXISTING PUBLIC OR PRIVATE SEWERS, UTILITY SERVICES, PLANT OR APPARATUS SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM STATUTORY RECORDS. THE INFORMATION SHOWN IS BELIEVED TO BE CORRECT BUT NO WARRANTY TO THIS IS EXPRESSED OR IMPLIED. OTHER SUCH PLANT OR APPARATUS MAY ALSO BE PRESENT BUT NOT SHOWN. INVESTIGATIONS SHOULD BE UNDERTAKEN ON SITE CONFIRMING LOCATIONS BEFORE BREAKING GROUND.

Rev.	Date	Drawn	RG	Designed	AF	Checked	DW	Approved	AT
Comments									
P03	BB comments addressed for planning								
Comments									
P02	For planning								
Client Approval									
A - Approved									
B - Approved with Revisions									
C - Do Not Use									
Purpose of Issue									Status
For review and comment									S3

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CENTRAL PRESTATYN COASTAL DEFENCES SCHEME

CENTRAL & EAST TYPICAL OUTFALL PLAN

for

sir ddinbych denbighshire County Council **Balfour Beatty**

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Scale:	Drawn:	26/11/20
As shown @ A1	R. Groves	
	Designed: A. Fyffe	25/11/20
	Checked: A. Dane	04/12/20
	Approved: A. Tyndel	09/03/21

Project Reference: CP-JBA-01-00-DR-C-2301-Central_& East_Typical_Outfall_Plan
Drawing Number: CP-JBA-01-00-DR-C-2301
Revision: P03

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