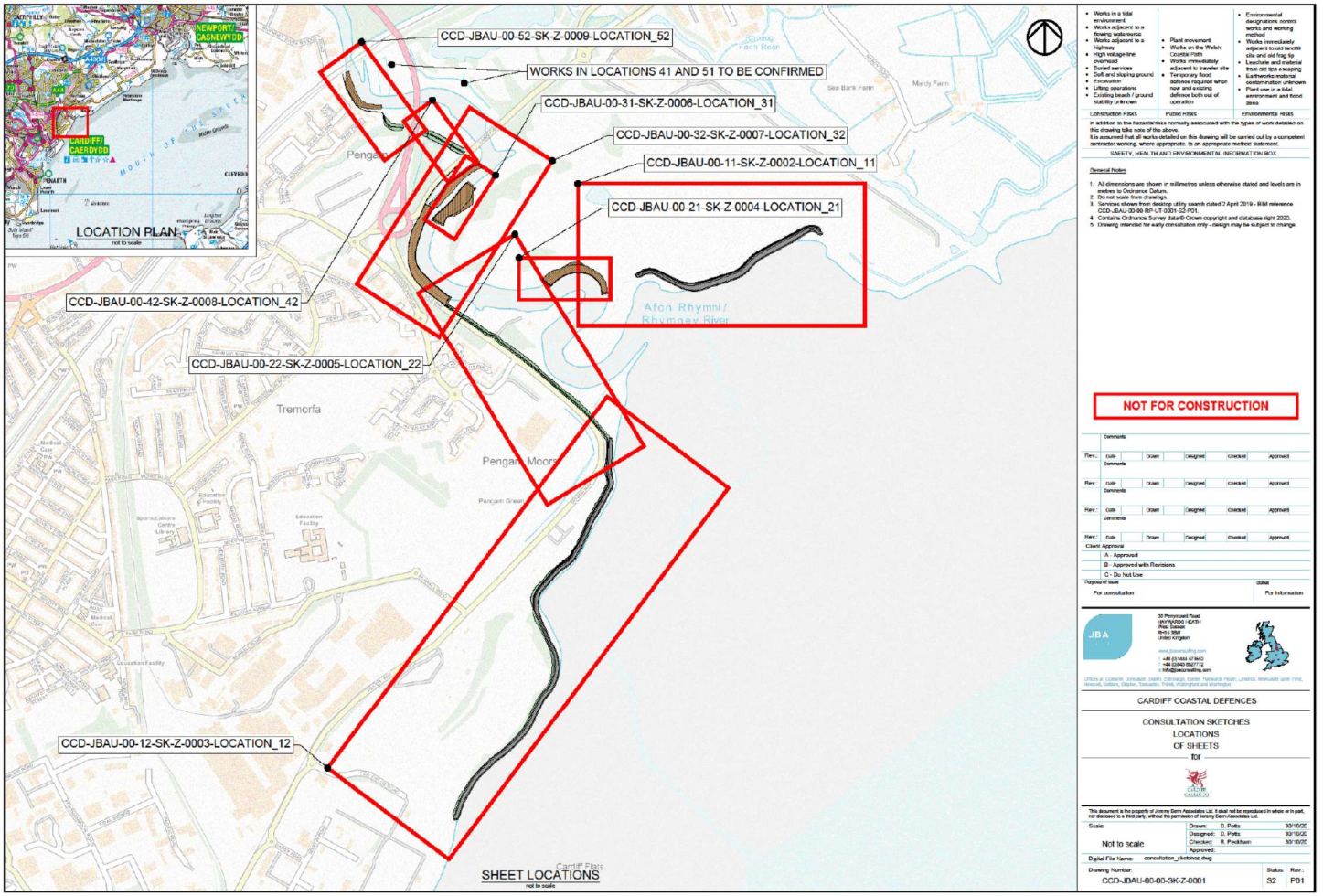
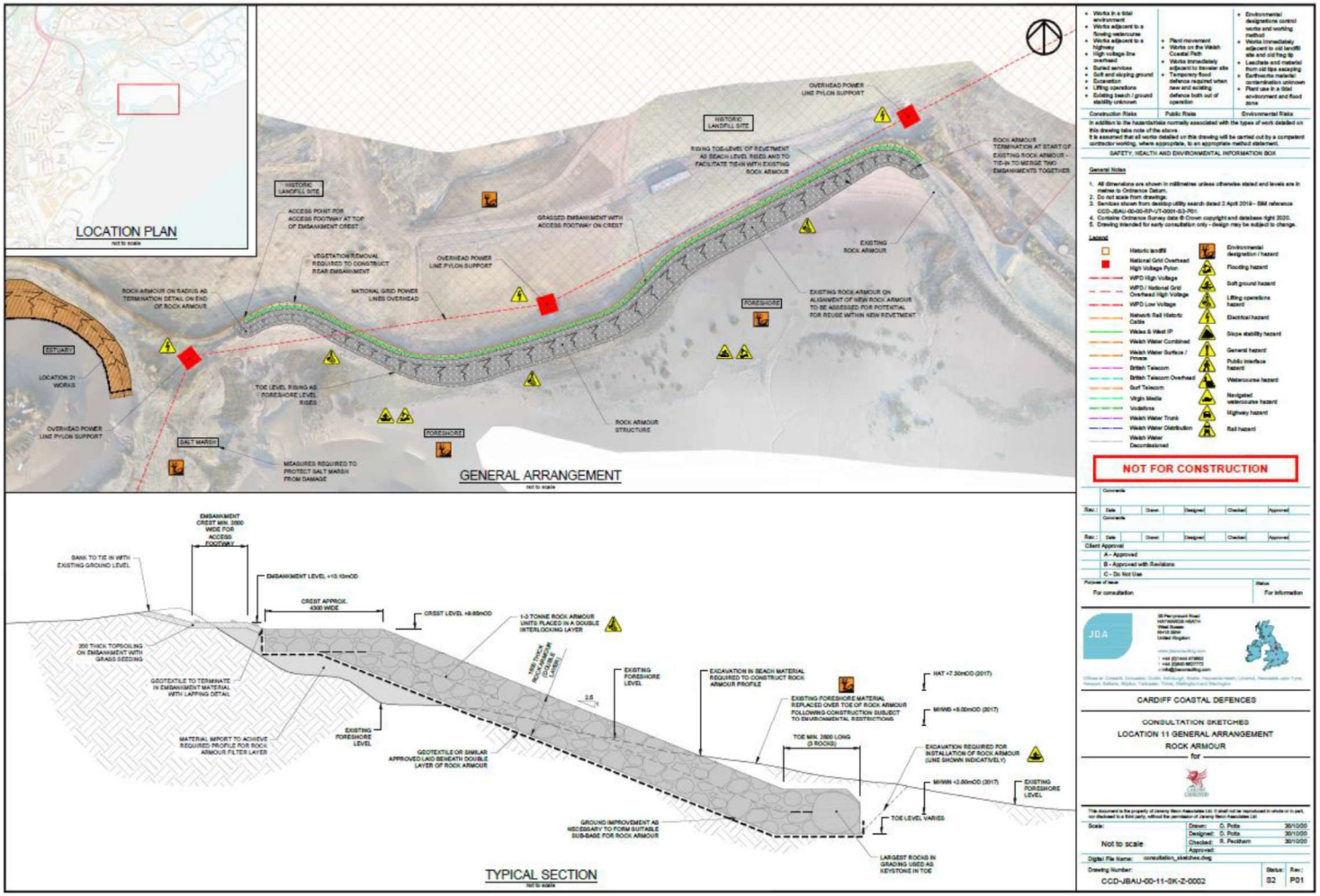
Appendix A – Layout and Design Principles

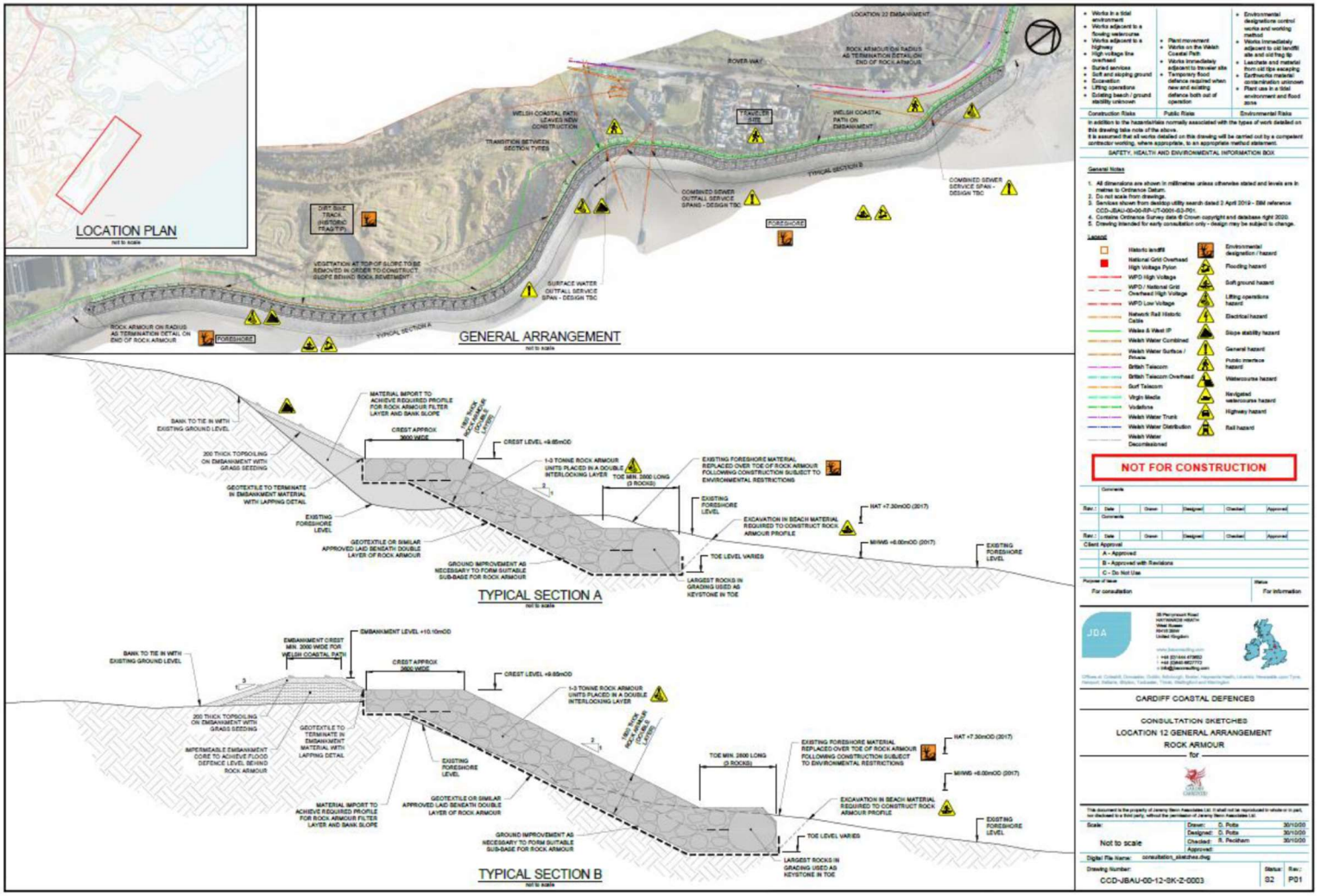


Area Layout

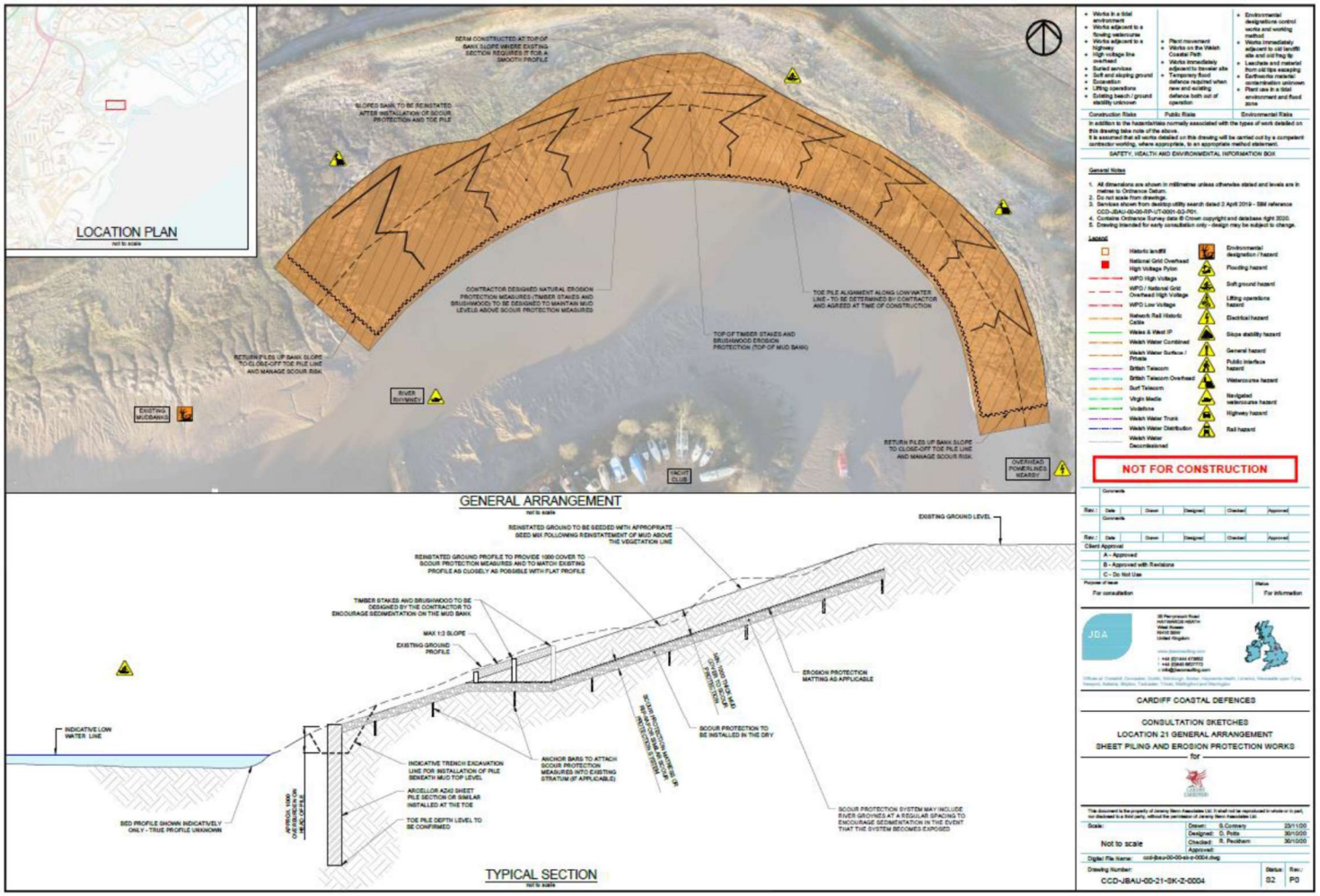


JBA consulting

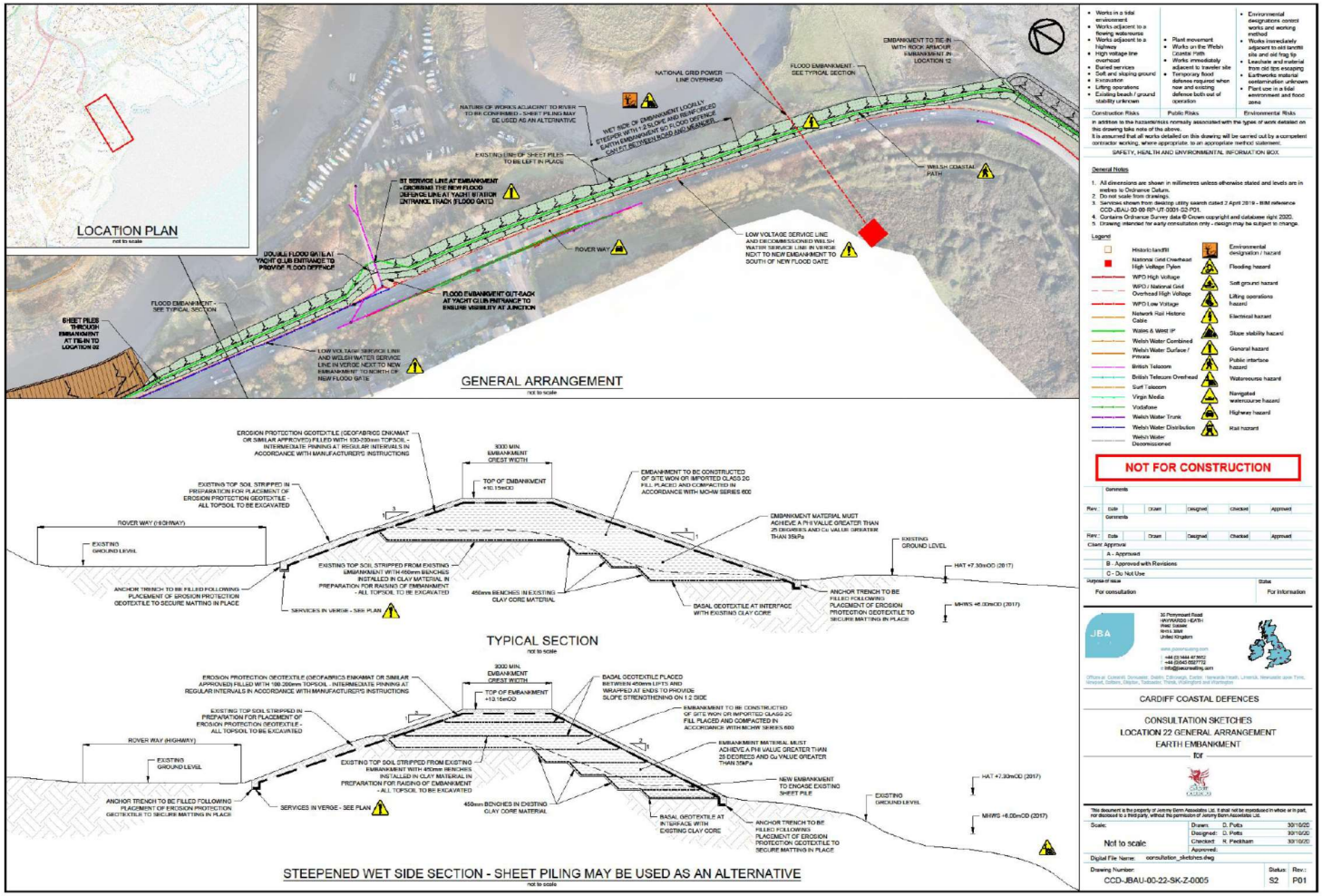
Location 11


LOCATION PLAN
not to scale
GENERAL ARRANGEMENT
not to scale
TYPICAL SECTION A
not to scale
TYPICAL SECTION B
not to scale
NOT FOR CONSTRUCTION
CARDIFF COASTAL DEFENCES
CONSULTATION SKETCHES
LOCATION 12 GENERAL ARRANGEMENT
ROCK ARMOUR
for
Not to scale
CCD-JBAU-00-12-SK-Z-0003
S2
P01

Location 12

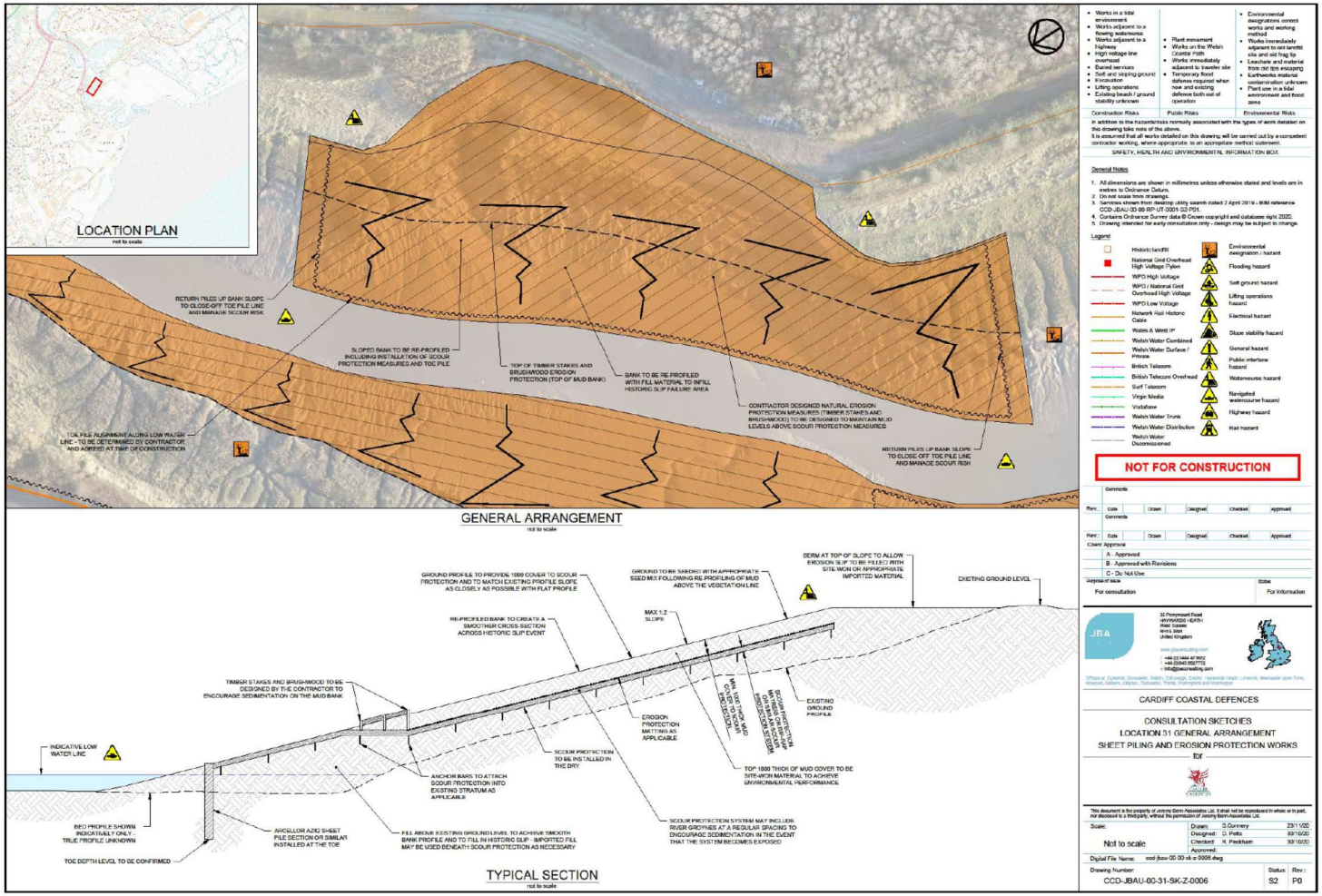

LOCATION PLAN
not to scale
GENERAL ARRANGEMENT
not to scale
TYPICAL SECTION
not to scale
NOT FOR CONSTRUCTION
CARDIFF COASTAL DEFENCES
CONSULTATION SKETCHES
LOCATION 21 GENERAL ARRANGEMENT
SHEET PILING AND EROSION PROTECTION WORKS
for
Not to scale
CCD-JBAU-00-21-SK-Z-0004

Location 21

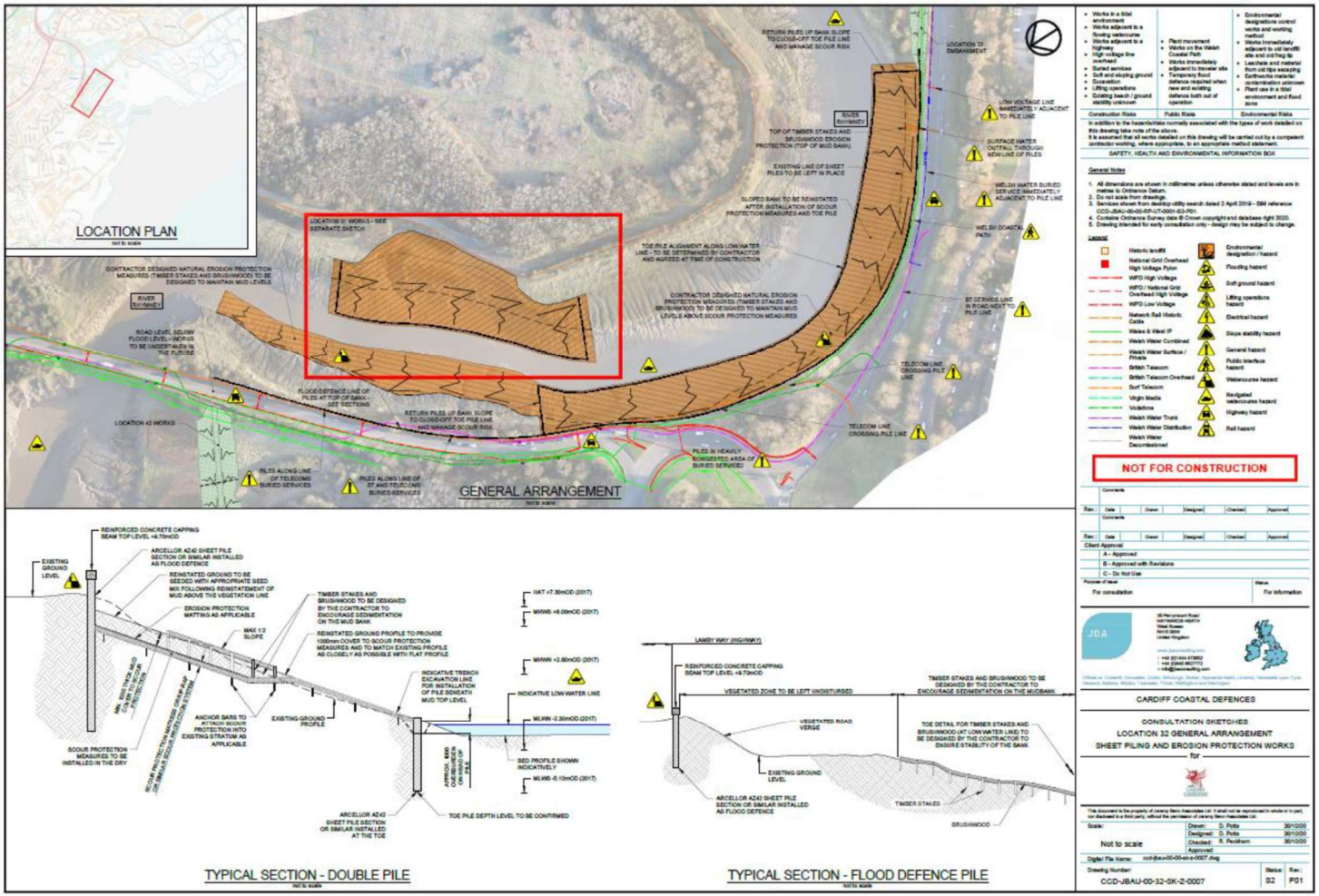

LOCATION PLAN
not to scale
GENERAL ARRANGEMENT
not to scale
TYPICAL SECTION
not to scale
STEEPENED WET SIDE SECTION - SHEET PILING MAY BE USED AS AN ALTERNATIVE
not to scale
NOT FOR CONSTRUCTION
CARDIFF COASTAL DEFENCES
CONSULTATION SKETCHES
LOCATION 22 GENERAL ARRANGEMENT
EARTH EMBANKMENT
for
Not to scale
CCD-JBAU-00-22-SK-Z-0005
S2
P01

Location 22

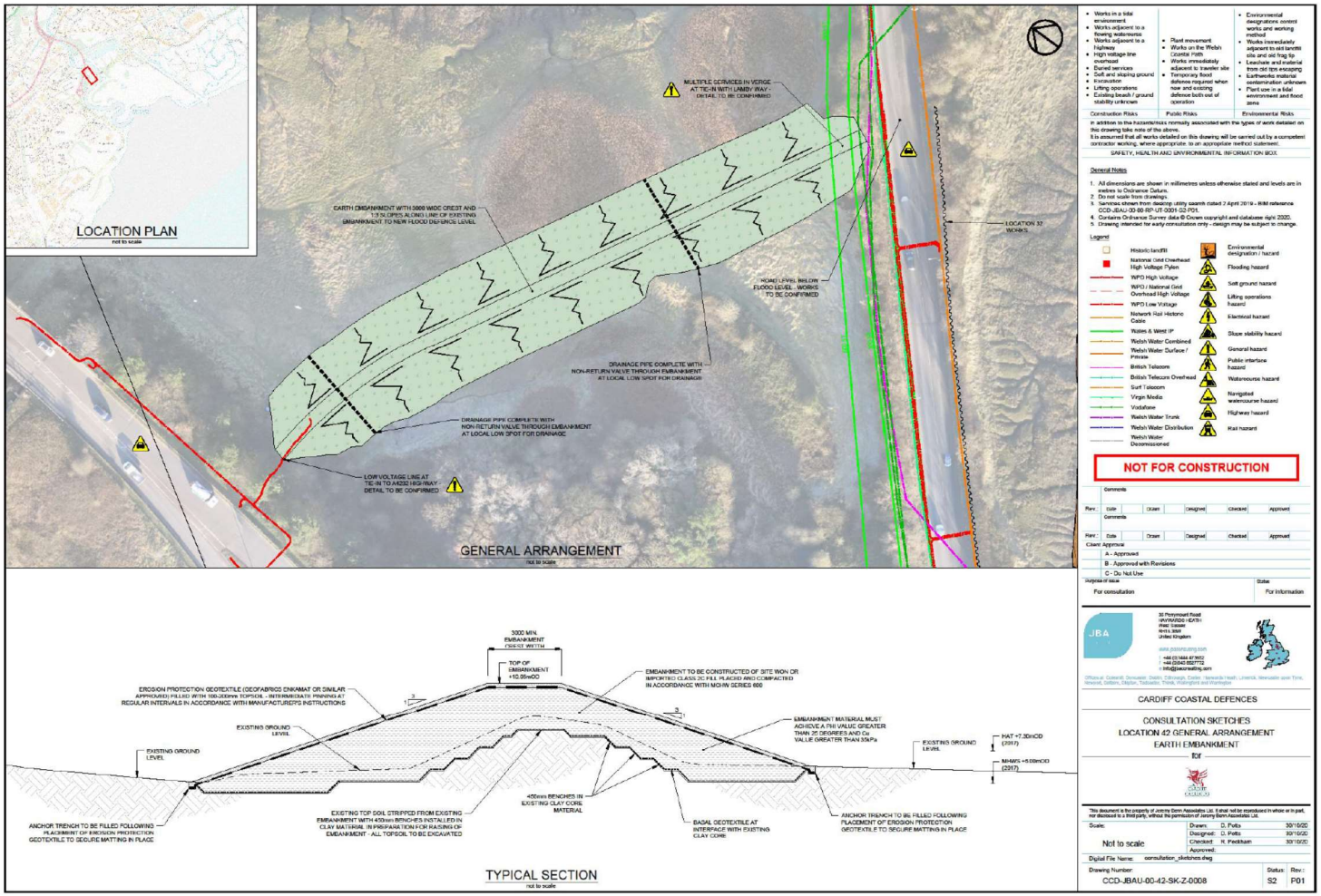
Appendix A – Layout and Design Principles



Location 31

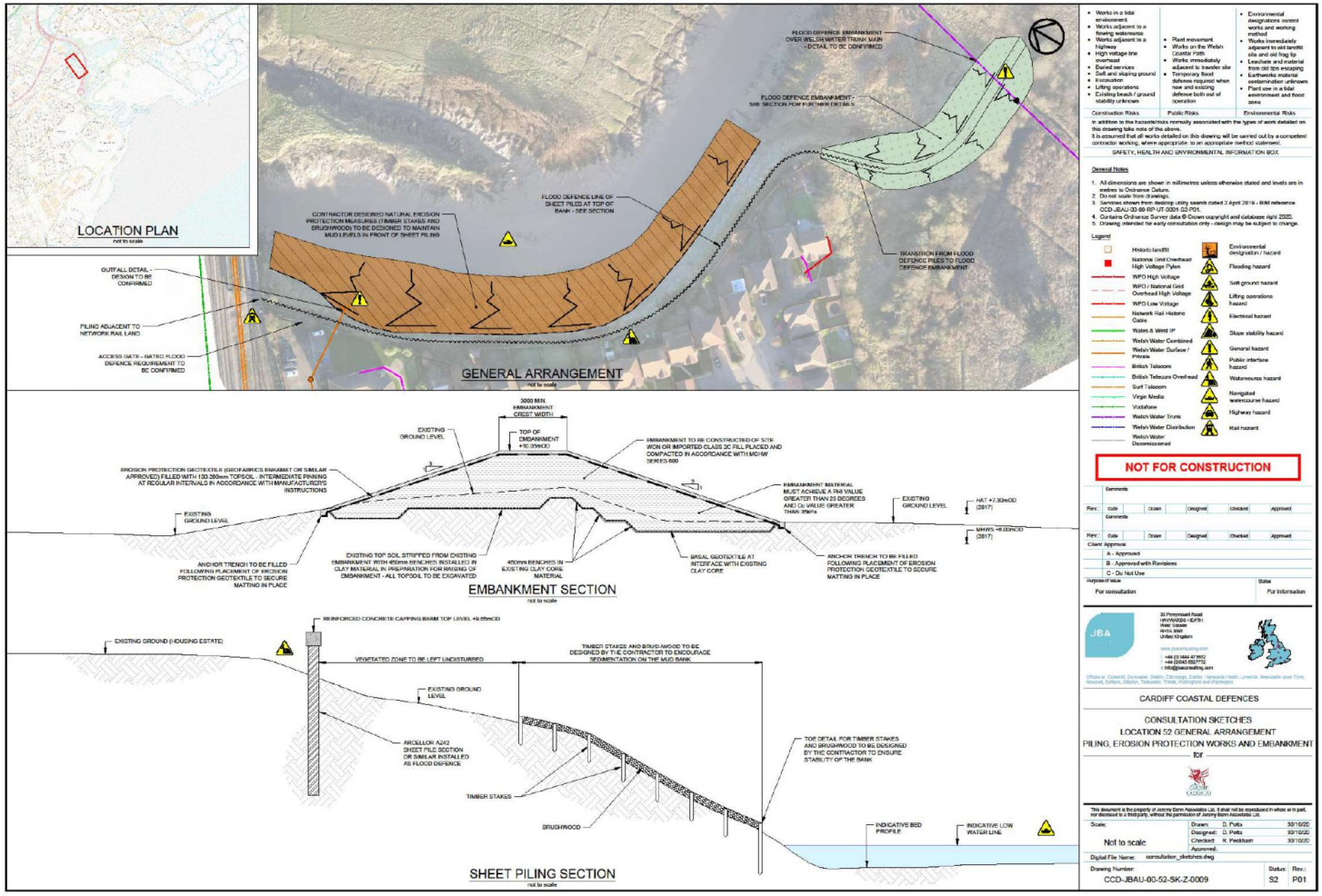

LOCATION PLAN
GENERAL ARRANGEMENT
TYPICAL SECTION - DOUBLE PILE
TYPICAL SECTION - FLOOD DEFENCE PILE
NOT FOR CONSTRUCTION
CARDIFF COASTAL DEFENCES
CONSULTATION SKETCHES
LOCATION 32 GENERAL ARRANGEMENT
SHEET PILING AND EROSION PROTECTION WORKS
Not to scale
CCD-JBAU-00-32-SK-Z-0007

Location 32


LOCATION PLAN
not to scale
MULTIPLE SERVICES IN VERGE AT TIE-IN WITH LAMBY WAY - DETAIL TO BE CONFIRMED
EARTH EMBANKMENT WITH 3000 WIDE CREST AND 1:3 SLOPES ALONG LINE OF EXISTING EMBANKMENT TO NEW FLOOD DEFENCE LEVEL
LOCATION 32 WORKS
ROAD LEVEL BELOW FLOOD LEVEL - WORKS TO BE CONFIRMED
DRAINAGE PIPE COMPLETE WITH NON-RETURN VALVE THROUGH EMBANKMENT AT LOCAL LOW SPOT FOR DRAINAGE
DRAINAGE PIPE COMPLETE WITH NON-RETURN VALVE THROUGH EMBANKMENT AT LOCAL LOW SPOT FOR DRAINAGE
LOW VOLTAGE LINE AT TIE-IN TO A4232 HIGHWAY - DETAIL TO BE CONFIRMED
GENERAL ARRANGEMENT
not to scale
3000 MIN. EMBANKMENT CREST WIDTH
TOP OF EMBANKMENT +10.35mOD
EMBANKMENT TO BE CONSTRUCTED OF SITE WON OR IMPORTED CLASS 2C FILL PLACED AND COMPACTED IN ACCORDANCE WITH MCHW SERIES 600
EROSION PROTECTION GEOTEXTILE (GEOFABRICS ENKAMAT OR SIMILAR APPROVED) FILLED WITH 100-200mm TOPSOIL - INTERMEDIATE PINNING AT REGULAR INTERVALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
EXISTING GROUND LEVEL
EMBANKMENT MATERIAL MUST ACHIEVE A PHI VALUE GREATER THAN 25 DEGREES AND Cu VALUE GREATER THAN 30kPa
EXISTING GROUND LEVEL
MHWS +5.00mOD (2017)
ANCHOR TRENCH TO BE FILLED FOLLOWING PLACEMENT OF EROSION PROTECTION GEOTEXTILE TO SECURE MATTING IN PLACE
EXISTING TOP SOIL STRIPPED FROM EXISTING EMBANKMENT WITH 450mm BENCHES INSTALLED IN CLAY MATERIAL IN PREPARATION FOR RAISING OF EMBANKMENT - ALL TOPSOIL TO BE EXCAVATED
450mm BENCHES IN EXISTING CLAY CORE MATERIAL
BASAL GEOTEXTILE AT INTERFACE WITH EXISTING CLAY CORE
ANCHOR TRENCH TO BE FILLED FOLLOWING PLACEMENT OF EROSION PROTECTION GEOTEXTILE TO SECURE MATTING IN PLACE
TYPICAL SECTION
not to scale
Construction Risks
Public Risks
Environmental Risks
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
General Notes
Legend
NOT FOR CONSTRUCTION
Comments
Client Approval
A - Approved
B - Approved with Revisions
C - Do Not Use
Purpose of issue
For consultation
Status
For information
CARDIFF COASTAL DEFENCES
CONSULTATION SKETCHES
LOCATION 42 GENERAL ARRANGEMENT
EARTH EMBANKMENT
for
Scale:
Not to scale
Drawn: D. Potts 30/10/20
Designed: D. Potts 30/10/20
Checked: R. Peckham 30/10/20
Approved:
Digital File Name: consultation_sketches.dwg
Drawing Number:
CCD-JBAU-00-42-SK-Z-0008
Status: S2
Rev.: P01

Location 42

Appendix A – Layout and Design Principles



Location 52