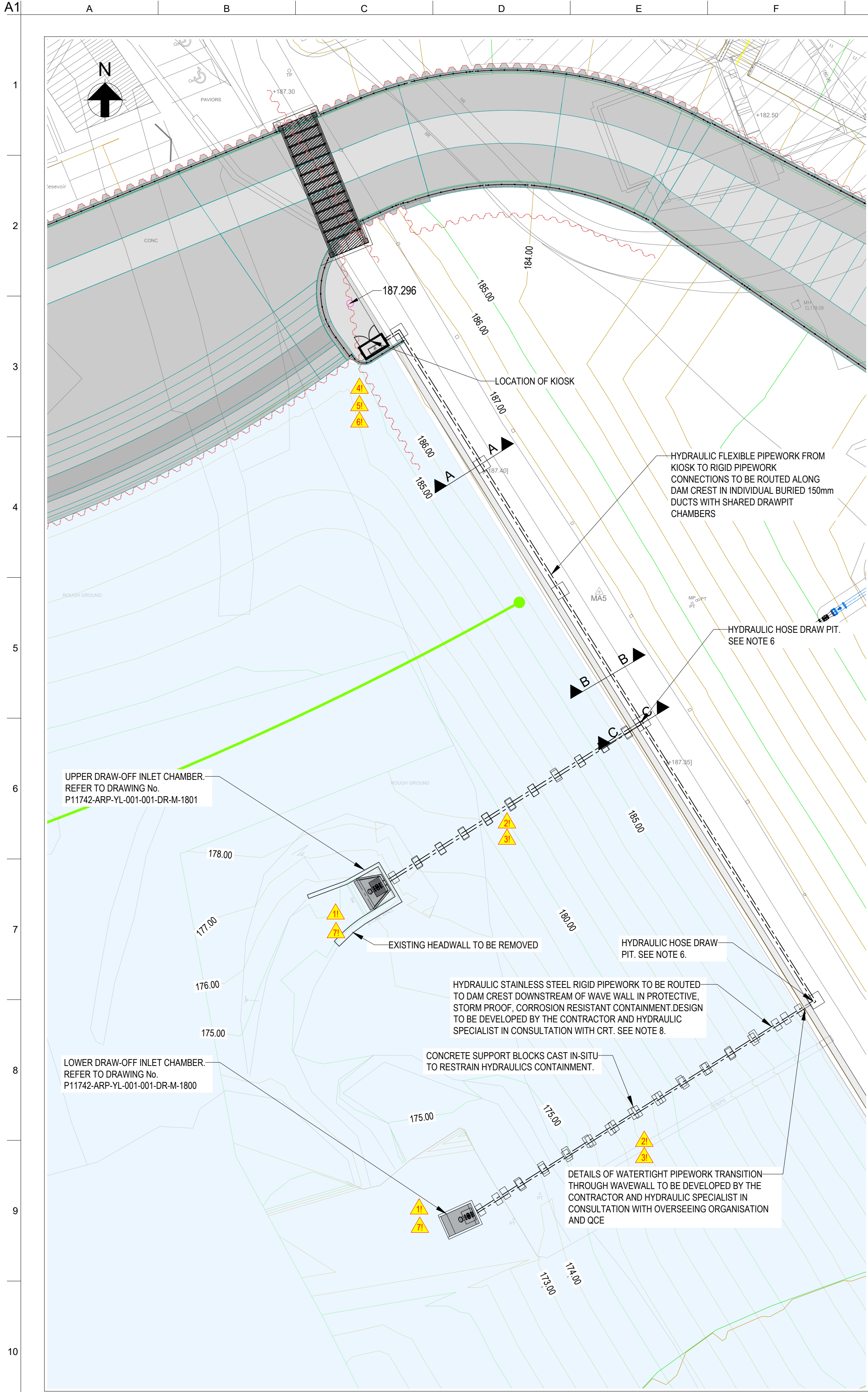
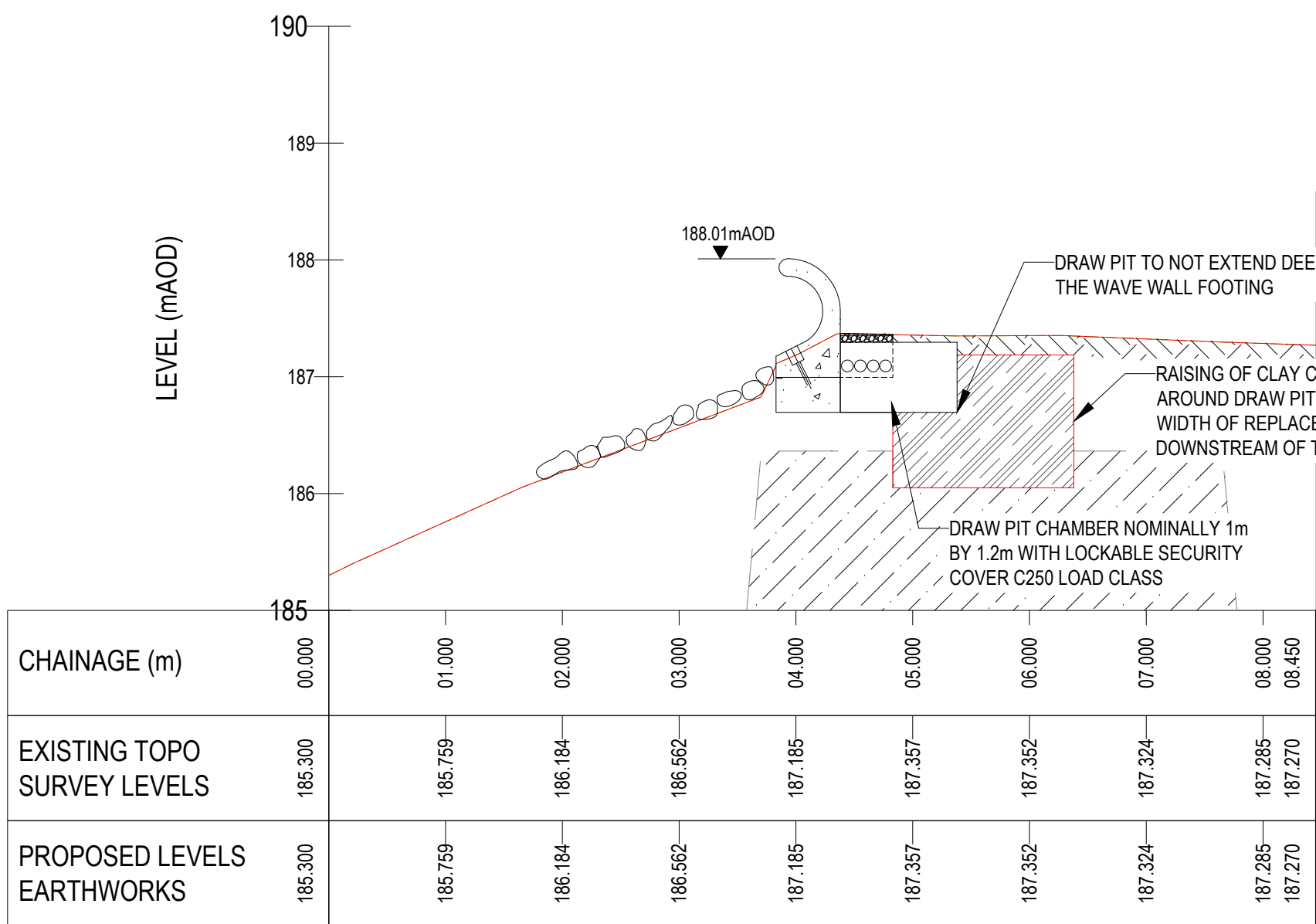
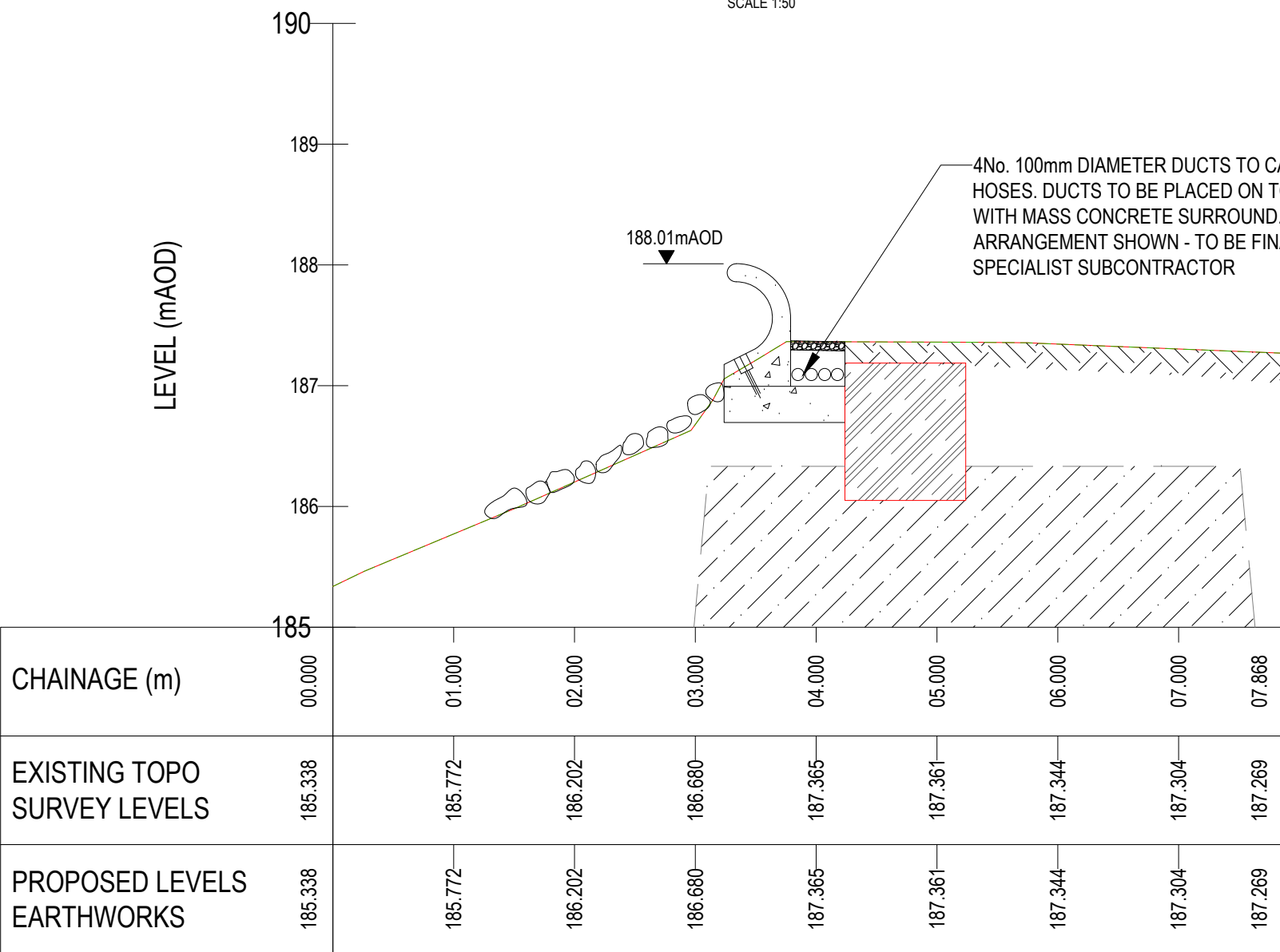




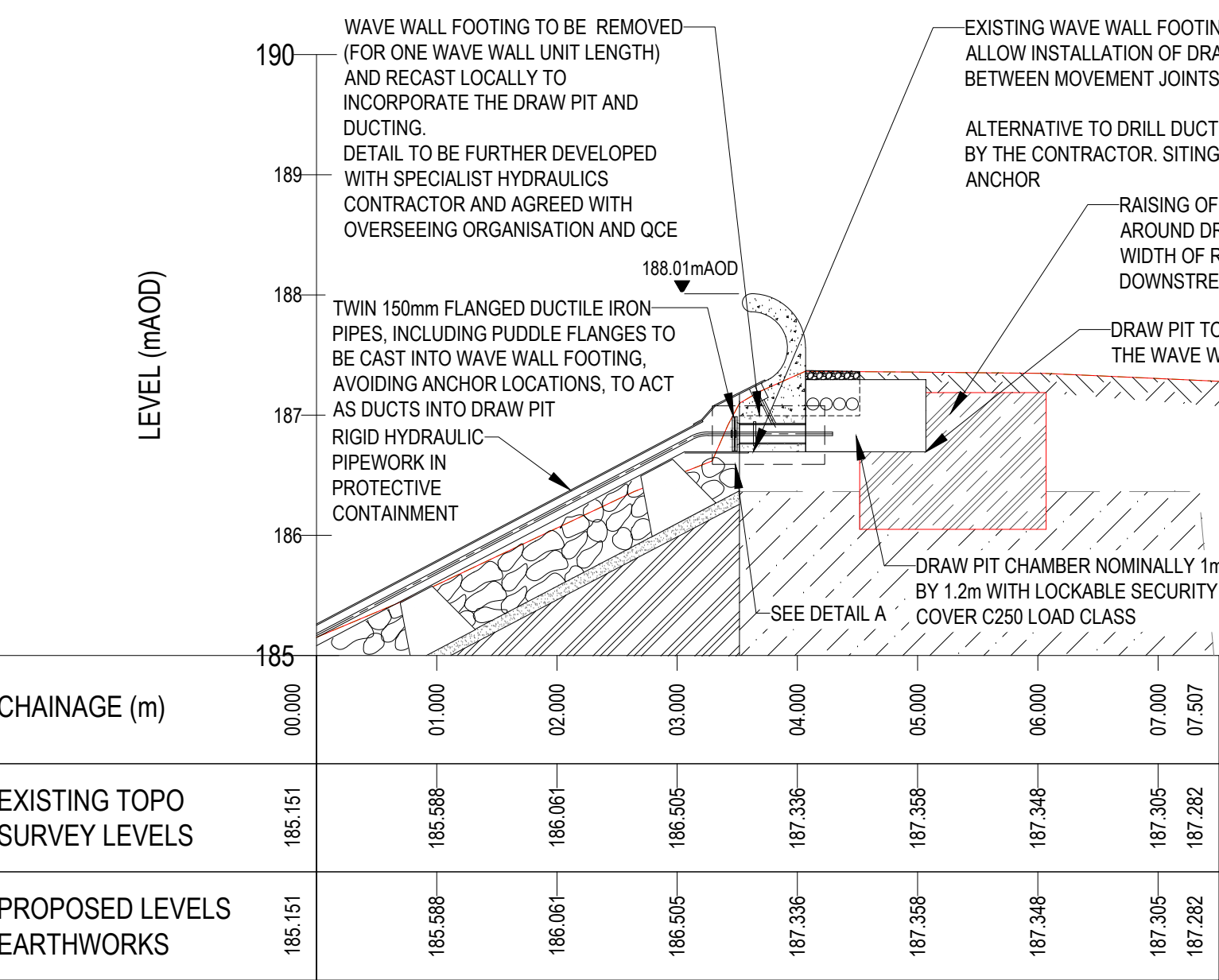
PLAN
SCALE 1:250



SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

CONSTRUCTION

- 1. RISK OF DROWNING FROM INCREASING WATER LEVELS IN RESERVOIR
- 2. SLIPS, TRIPS AND FALLS DUE TO STEEP RESERVOIR EMBANKMENT, RIP RAP SURFACE AND SLIPPERY WHEN WET
- 3. RISK OF SLOPE INSTABILITY OF DAM EMBANKMENT
- 4. PRESSURISED HYDRAULIC PIPEWORK
- 5. RISK OF POLLUTION - BIODEGRADABLE OIL TO BE USED.
- 6. DUCTS TO BE SEALED TO PREVENT VERMIN INGRESS.

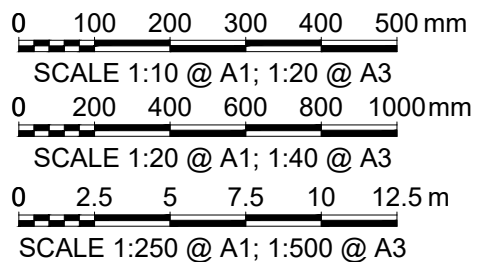
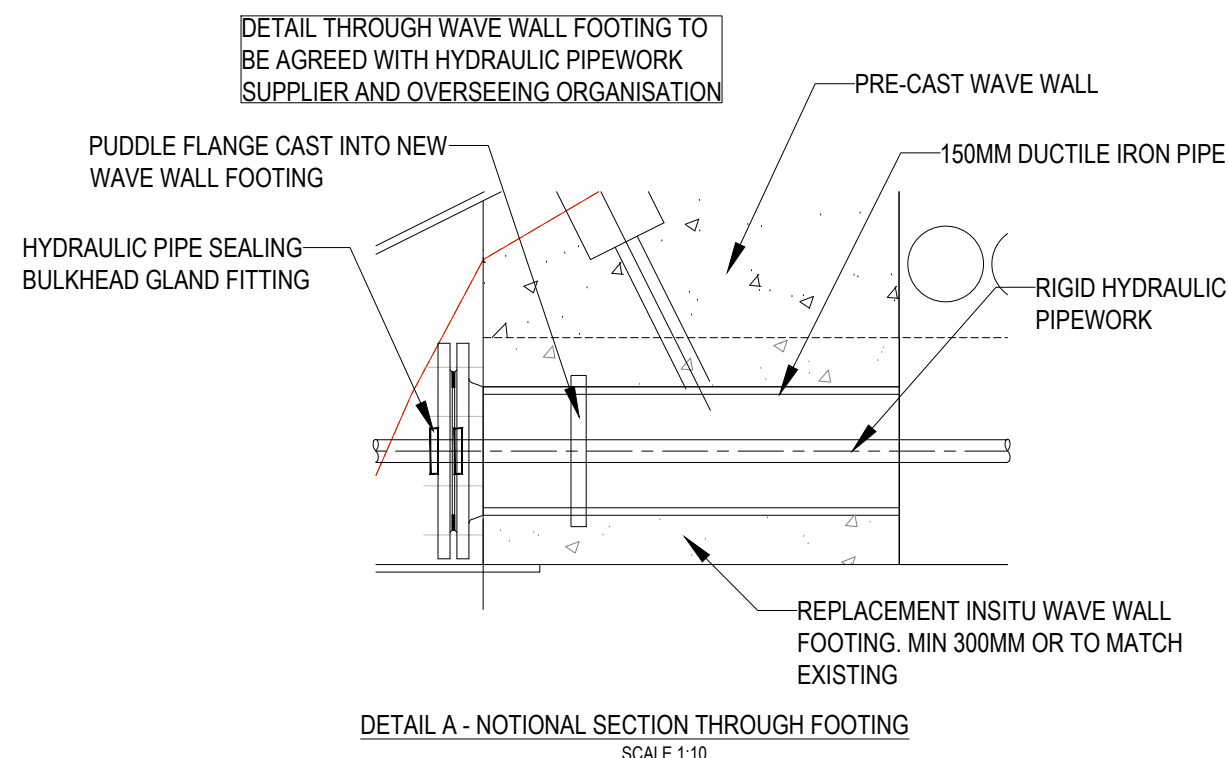
MAINTENANCE/CLEANING/OPERATION

- 1. RISK OF DROWNING FROM INCREASING WATER LEVELS IN RESERVOIR
- 2. SLIPS, TRIPS AND FALLS DUE TO STEEP RESERVOIR EMBANKMENT, RIP RAP SURFACE AND SLIPPERY WHEN WET
- 3. PRESSURISED HYDRAULIC PIPEWORK
- 4. RISK OF POLLUTION - BIODEGRADABLE OIL TO BE USED.
- 5. HOSES TO BE REPLACED UNDER PLANNED MAINTENANCE.
- 6. DUCTS TO BE RESEALED FOLLOWING MAINTENANCE TO PREVENT VERMIN INGRESS

DECOMMISSIONING/DEMOLITION

- 1. RISK OF DROWNING FROM INCREASING WATER LEVELS IN RESERVOIR
- 2. SLIPS, TRIPS AND FALLS DUE TO STEEP RESERVOIR EMBANKMENT, RIP RAP SURFACE AND SLIPPERY WHEN WET
- 3. RISK OF SLOPE INSTABILITY OF DAM EMBANKMENT
- 4. PRESSURISED HYDRAULIC PIPEWORK
- 5. RISK OF POLLUTION - BIODEGRADABLE OIL TO BE USED.
- 6. DUCTS TO BE SEALED TO PREVENT VERMIN INGRESS.

REFER TO THE DESIGNER'S HAZARD RISK REGISTER FOR FURTHER DETAILS.
IT IS ASSUMED THAT ALL THE WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WHO HAS CARRIED OUT A COMPREHENSIVE RISK ASSESSMENT.



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL LEVELS ARE IN METRES ABOVE ORDANCE DATUM (mAOD) UNLESS STATED OTHERWISE.
3. WHERE CHAMBER DEPTH EXCEEDS 900MM STEP IRONS SHOULD BE INSTALLED.
4. CHAMBER WALLS SHALL BE CHAMFERED AROUND DUCT ENTRIES TO PROVIDE A SMOOTH SURFACE FOR HYDRAULIC HOSE INSTALLATION
5. DUCT CLEARANCE AND DRAW PIT DIMENSIONS TO BE DETERMINED BY CONTRACTOR BASED ON HYDRAULIC HOSE ACCEPTABLE BEND RADIUS. DRAW PITS DETAIL TO BE REVIEWED BY THE DESIGNER TO ENSURE COMPATIBILITY WITH CORE RAISING WORKS.
6. KIOSK AND DRAW PITS TO BE LOCATED DOWNSTREAM OF THE WAVE WALL. DUCTS AND DRAWPITS TO BE SEALED TO PREVENT VERMIN INGRESS.
7. FOR KIOSK AND SLAB DETAILS SEE DRAWING 911742-ARP-YL-001-001-DR-M-1805.
8. HYDRAULIC FLEXIBLE PIPEWORK (HOSES) ON THE UPSTREAM FACE OF THE DAM WILL ONLY BE CONSIDERED AS AN ALTERNATIVE TO RIGID PIPEWORK AT THE DISCRETION OF CRT. THIS IS DUE TO FLEXIBLE PIPEWORK HAVING A SHORT DESIGN LIFE OF 5-10 YEARS.

PLAN LEGEND:

- FINISHED 5m MAJOR CONTOUR
- FINISHED 1m MINOR CONTOUR
- PROPOSED PU 18 SHEET PILES
- PROPOSED GRASS REINFORCED OCCASIONAL MAINTENANCE ACCESS
- PROPOSE FLOATING BOOM

SECTIONS LEGEND:

- EXISTING PROFILE LEVELS
- PROPOSED SPILLWAY LEVELS
- EXISTING CLAY CORE
- PROPOSED CLAY CORE

C01	30/05/22	BW	AP	DN
ISSUED FOR DETAILED DESIGN				
Rev	Date	By	Chkd	Appd

ARUP

Admiral House, Rose Wharf,
78 East Street, Leeds, LS9 8EE
Tel +44(0)113 242 8498 Fax +44(0)113 242 8573
www.arup.com

Client



Project Title

TODDBROOK RESERVOIR

Drawing Title

PROPOSED DRAWOFF PIPES
KIOSK & HYDRAULIC PIPEWORK

Scale at A1 AS SHOWN

Role CIVIL

Suitability A4 - AUTHORISED AND ACCEPTED

Arup Job No

277087-00

Name

P11742-ARP-YL-001-001-DR-M-1804