



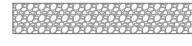

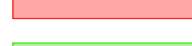



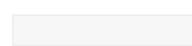

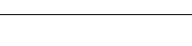
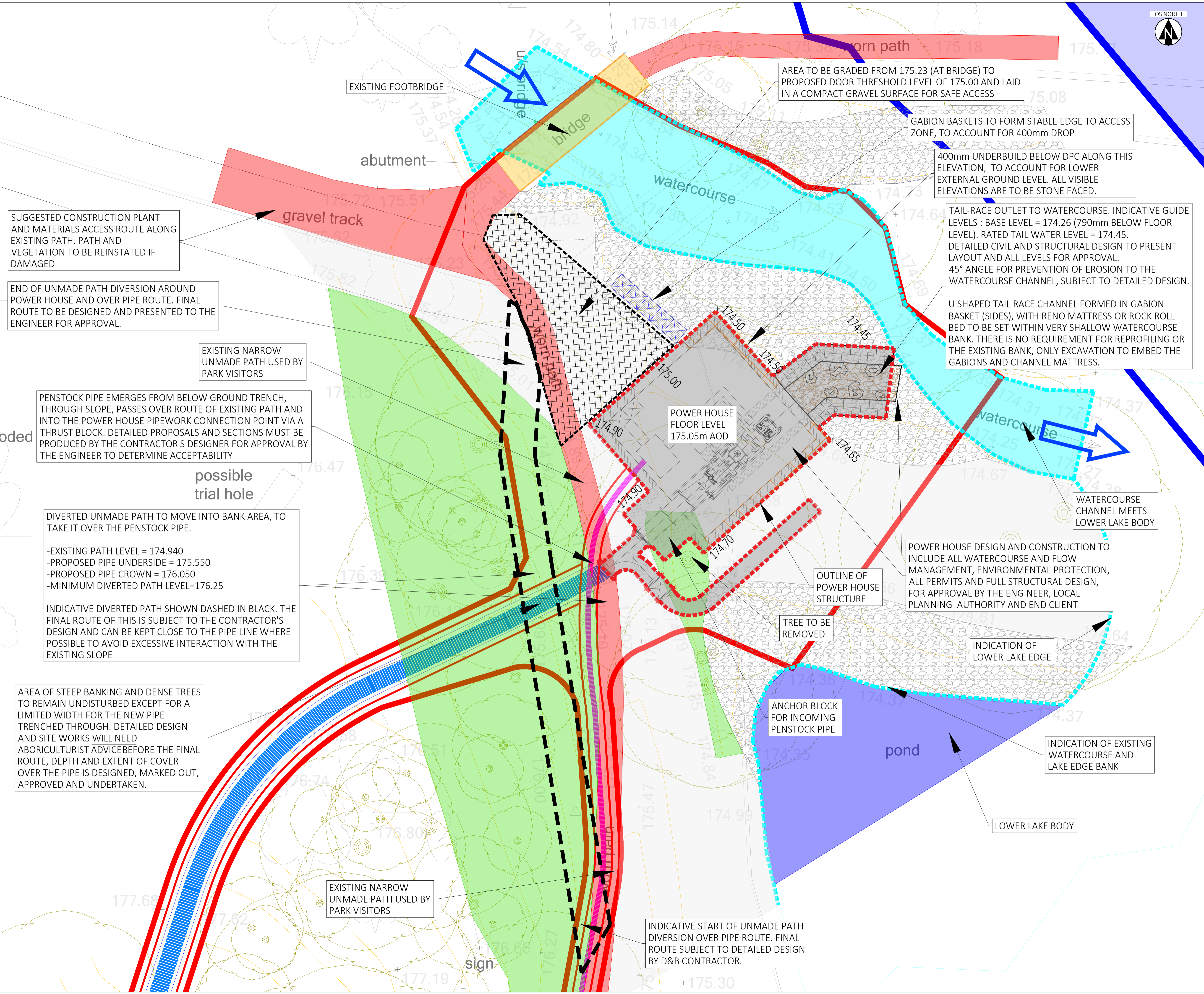




DO NOT SCALE

- KEY
-  PENSTOCK PIPE
 -  LV CABLE
 -  INDICATION OF WATER FLOW
 -  WATERCOURSE CHANNEL
 -  STONE BANK
 -  FOOTBRIDGE
 -  TARMAC FOOTPATH
 -  EARTH BANK WITH TREES
 -  LOWER LAKE BODY
 -  GABION BASKETS
 -  POWER HOUSE FOOTPRINT
 -  EXISTING BARE GROUND
 -  FOOTPATH DIVERSION ROUTE



SUGGESTED CONSTRUCTION PLANT AND MATERIALS ACCESS ROUTE ALONG EXISTING PATH. PATH AND VEGETATION TO BE REINSTATED IF DAMAGED

END OF UNMADE PATH DIVERSION AROUND POWER HOUSE AND OVER PIPE ROUTE. FINAL ROUTE TO BE DESIGNED AND PRESENTED TO THE ENGINEER FOR APPROVAL.

EXISTING NARROW UNMADE PATH USED BY PARK VISITORS

PENSTOCK PIPE EMERGES FROM BELOW GROUND TRENCH, THROUGH SLOPE, PASSES OVER ROUTE OF EXISTING PATH AND INTO THE POWER HOUSE PIPEWORK CONNECTION POINT VIA A THRUST BLOCK. DETAILED PROPOSALS AND SECTIONS MUST BE PRODUCED BY THE CONTRACTOR'S DESIGNER FOR APPROVAL BY THE ENGINEER TO DETERMINE ACCEPTABILITY

possible trial hole

DIVERTED UNMADE PATH TO MOVE INTO BANK AREA, TO TAKE IT OVER THE PENSTOCK PIPE.

- EXISTING PATH LEVEL = 174.940
- PROPOSED PIPE UNDERSIDE = 175.550
- PROPOSED PIPE CROWN = 176.050
- MINIMUM DIVERTED PATH LEVEL=176.25

INDICATIVE DIVERTED PATH SHOWN DASHED IN BLACK. THE FINAL ROUTE OF THIS IS SUBJECT TO THE CONTRACTOR'S DESIGN AND CAN BE KEPT CLOSE TO THE PIPE LINE WHERE POSSIBLE TO AVOID EXCESSIVE INTERACTION WITH THE EXISTING SLOPE

AREA OF STEEP BANKING AND DENSE TREES TO REMAIN UNDISTURBED EXCEPT FOR A LIMITED WIDTH FOR THE NEW PIPE TRENCHED THROUGH. DETAILED DESIGN AND SITE WORKS WILL NEED ABORICULTURIST ADVICE BEFORE THE FINAL ROUTE, DEPTH AND EXTENT OF COVER OVER THE PIPE IS DESIGNED, MARKED OUT, APPROVED AND UNDERTAKEN.

EXISTING NARROW UNMADE PATH USED BY PARK VISITORS

INDICATIVE START OF UNMADE PATH DIVERSION OVER PIPE ROUTE. FINAL ROUTE SUBJECT TO DETAILED DESIGN BY D&B CONTRACTOR.

AREA TO BE GRADED FROM 175.23 (AT BRIDGE) TO PROPOSED DOOR THRESHOLD LEVEL OF 175.00 AND LAID IN A COMPACT GRAVEL SURFACE FOR SAFE ACCESS

GABION BASKETS TO FORM STABLE EDGE TO ACCESS ZONE, TO ACCOUNT FOR 400mm DROP

400mm UNDERBUILD BELOW DPC ALONG THIS ELEVATION, TO ACCOUNT FOR LOWER EXTERNAL GROUND LEVEL. ALL VISIBLE ELEVATIONS ARE TO BE STONE FACED.

TAIL-RACE OUTLET TO WATERCOURSE. INDICATIVE GUIDE LEVELS : BASE LEVEL = 174.26 (790mm BELOW FLOOR LEVEL). RATED TAIL WATER LEVEL = 174.45. DETAILED CIVIL AND STRUCTURAL DESIGN TO PRESENT LAYOUT AND ALL LEVELS FOR APPROVAL. 45° ANGLE FOR PREVENTION OF EROSION TO THE WATERCOURSE CHANNEL, SUBJECT TO DETAILED DESIGN.

U SHAPED TAIL RACE CHANNEL FORMED IN GABION BASKET (SIDES), WITH RENO MATTRESS OR ROCK ROLL BED TO BE SET WITHIN VERY SHALLOW WATERCOURSE BANK. THERE IS NO REQUIREMENT FOR REPROFILING OR THE EXISTING BANK, ONLY EXCAVATION TO EMBED THE GABIONS AND CHANNEL MATTRESS.

POWER HOUSE DESIGN AND CONSTRUCTION TO INCLUDE ALL WATERCOURSE AND FLOW MANAGEMENT, ENVIRONMENTAL PROTECTION, ALL PERMITS AND FULL STRUCTURAL DESIGN, FOR APPROVAL BY THE ENGINEER, LOCAL PLANNING AUTHORITY AND END CLIENT

OUTLINE OF POWER HOUSE STRUCTURE

TREE TO BE REMOVED

ANCHOR BLOCK FOR INCOMING PENSTOCK PIPE

INDICATION OF LOWER LAKE EDGE

INDICATION OF EXISTING WATERCOURSE AND LAKE EDGE BANK

LOWER LAKE BODY

REVISIONS

Rev.	Revision Notes	Date	Drawn By	Checked	Approved
T02	Tail race form of construction updated to suit NRW comments	01/08/25	RB		RB RB
T01	Tender	30/06/25	BRM		RB RB
PO2	Update to key	02/04/25	BRM		RB RB
PO1	First Issue	27/09/24	FA		RB RB

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CLIENT
RHONDDA CYNON TAF COUNTY BOROUGH COUNCIL

PROJECT
DARE VALLEY COUNTRY PARK
MICRO HYDRO DEVELOPMENT

TITLE
POWER HOUSE GENERAL ARRANGEMENT PLAN

HYDROCK PROJECT NO. C-34564	SCALE @ A1 1:50	STATUS DESCRIPTION SUITABLE FOR REVIEW & COMMENT	STATUS S3
DRAWING NO. 34564-HYD-XX-XX-DR-C-1020		REVISION T02	

Filename: P:\34000-34900\34564 - Dare Valley Hydro Technical\Advisor\01_WIP\DR - Drawing\C34564-HYD-XX-XX-DR-C-1020 - Power House General Arrangement Plan.dwg