INDICATIVE PLANTING SCHEDULE - WETLAND AREA

NATIVE WOODLAND (CANOPY/ SPECIMENS - TIE INTO EXISTING):
COMMON MAPLE *(Acer campestre)*
DOWNY BIRCH *(Betula pubescens)*
COMMON HORNBEAM *(Carpinus betulus)*
SWEET CHESTNUT *(Castanea sativa)*
COMMON OAK *(Quercus robur)*
SMALL-LEAVED LIME *(Tilia cordata)*

NATIVE WOODLAND UNDERSTOREY:
COMMON MAPLE *(Acer campestre)*
COMMON ALDER *(Alnus glutinosa)*
DOWNY BIRCH *(Betula pubescens)*
COMMON HAZEL *(Corylus avellana)*
COMMON HAWTHORN *(Crataegus monogyna)*
COMMON HOLLY *(Llex aquifolium)*
COMMON HONEYSUCKLE *(Lonicera periclymenum)*
COMMON CRAB APPLE *(Malnus sylvestris)*
WILD CHERRY *(Prunus avium)*
COMMON OAK *(Quercus robur)*
DOG ROSE *(Rosa canina)*
GOAT WILLOW *(Salix caprea)*
ROWAN *(Sorbus aucuparia)*
GUELDER ROSE *(Viburnum opulus)*

NATIVE WET WOODLAND:
BLACK ALDER *(Alnus glutinosa)*
DOWNY BIRCH *(Betula pubescens)*
COMMON DOGWOOD *(Cornus sanguinea)*
BLACK POPULAR *(Populus nigra)*
ASPEN *(Populus tremula)*
COMMON BUCKTHORN *(Rhamnus cathartica)*
WHITE WILLOW *(Salix alba)*
GOAT WILLOW *(Salix caprea)*
COMMON OSIER *(Salix viminalis)*

NATIVE SCRUB MIX:
COMMON HAZEL *(Corylus avellana)*
COMMON HONEYSUCKLE *(Lonicera periclymenum)*
COMMON BUCKTHORN *(Rhamnus cathartica)*
GREY WILLOW *(Salix cinerea)*
COMMON ELDER *(Sambucus nigra)*
COMMON GORSE *(Ulex europaeus)*

WET GRASSLAND/ MARGINAL:
WATER HAWTHORN *(Aponogeton desertorum)*
BOG ARUM *(Calla palustris)*
MARSH MARIGOLD *(Caltha palustris)*
REGAL SURPRISE *(Iris 'regal surprise')*
PURPLE LOOSESTRIFE *(Lythrum salicaria)*
WATER MINT *(Mentha aquatica)*
PICKEREL REED *(Pontederia cordata)*
BULRUSH *(Typha latifolia)*

SEEDING:
EMBANKMENT GRASS MIX 'MEADOW MIX' - EM5
20% WILDFLOWER MIX. SEE: WWW.WILDSEED.CO.UK OR SIMILAR

WILD FLOWERS - 20%
0.4% AGRIMONY *(Agrimonia eupatoria)*
0.2% BETONY *(Betonica officinalis)*
0.2% BIRDSFOOT TREFOIL *(Lotus corniculatus)*
0.3% BLADDER CAMPION *(Silene vulgaris)*
0.6% BULBOUS BUTTERCUP *(Ranunculus bulbosus)*
2.4% COMMON KNAPWEED *(Centaurea nigra)*
1% COMMON SORREL *(Rumex acetosa)*
0.2% COWSLIP *(Primula versis)*
1.4% FIELD SCABIOUS *(Knautia arvensis)*
1.2% LADY'S BEDSTRAW *(Galium verum)*
0.4% MEADOW BUTTERCUP *(Ranunculus acris)*
0.4% MEADOW VETCHLING *(Lathyrus pratensis)*
3.4% MUSK MALLOW *(Malva moschata)*
1.2% OXEYE *(Daisyleucanthemum vulgare)*
3% RIBWORT PLANTAIN *(Plantago lanceolata)*
0.1% ROUGH HAWKBIT *(Leontodon hispidus)*
0.4% TUFTED VETCH *(Vicia cracca)*
0.2% WILD CARROT *(Daucus carota)*
1.6% YARROW *(Achillea millefolium)*
1.4% YELLOW RATTLE *(Rhinanthus minor)*

GRASSES - 80%
8% AGROSTIS CAPILLARIS *(Common bent)*
56% CRESTED DOGSTAIL *(Cynosurus cristatus)*
3.2% QUAKING GRASS ((W) *(Briza media)*
10.4% RED FESCUE *(Festuca rubra)*
1.6% SWEET VERNAL-GRASS ((W) *(Anthoxanthum odoratum)*
0.8% YELLOW OAT-GRASS ((W) *(Trisetum flavescens)*

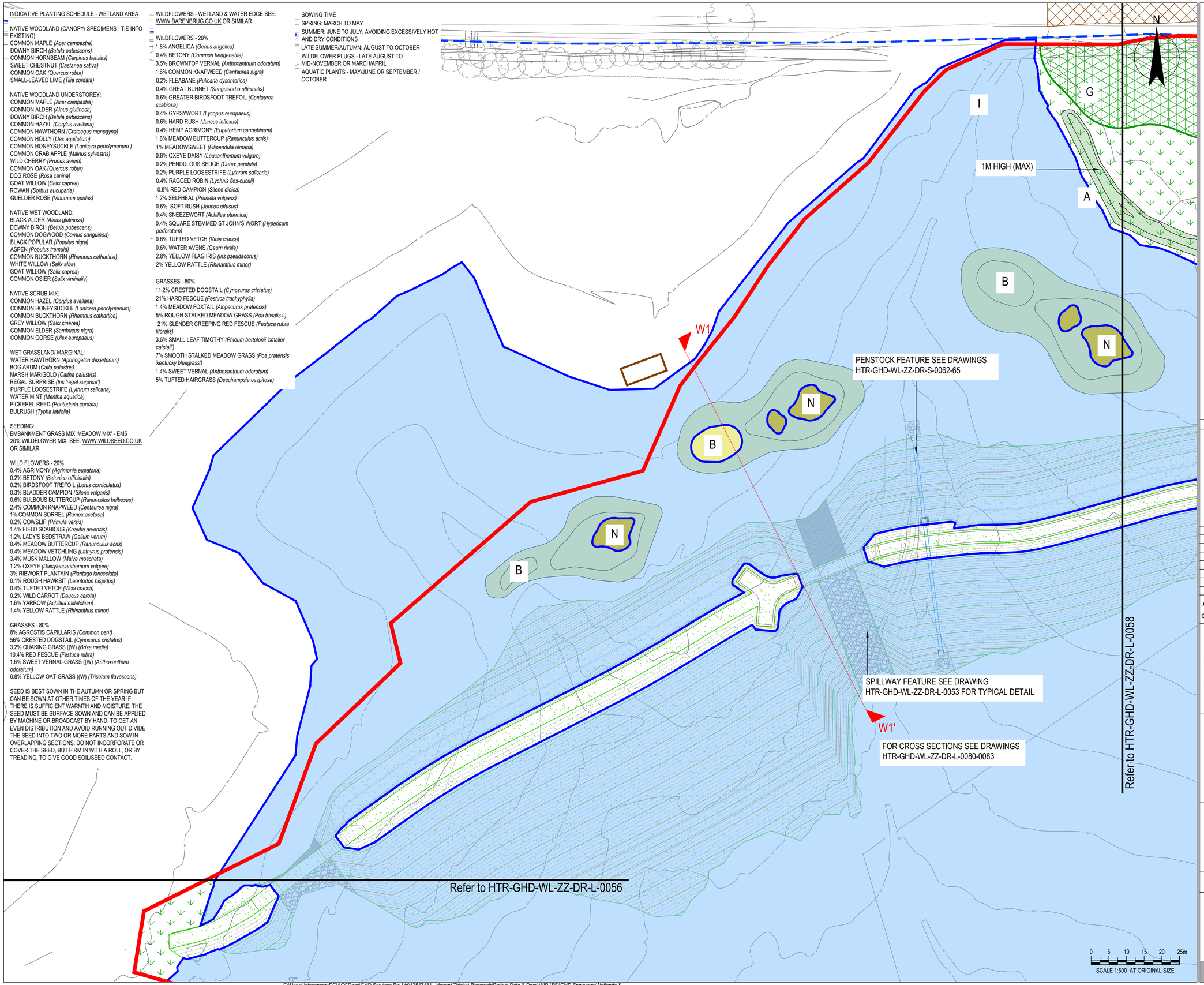
SEED IS BEST SOWN IN THE AUTUMN OR SPRING BUT CAN BE SOWN AT OTHER TIMES OF THE YEAR IF THERE IS SUFFICIENT WARMTH AND MOISTURE. THE SEED MUST BE SURFACE SOWN AND CAN BE APPLIED BY MACHINE OR BROADCAST BY HAND. TO GET AN EVEN DISTRIBUTION AND AVOID RUNNING OUT DIVIDE THE SEED INTO TWO OR MORE PARTS AND SOW IN OVERLAPPING SECTIONS. DO NOT INCORPORATE OR COVER THE SEED, BUT FIRM IN WITH A ROLL, OR BY TREADING, TO GIVE GOOD SOIL/SEED CONTACT.

WILDFLOWERS - WETLAND & WATER EDGE SEE: WWW.BARENBRUG.CO.UK OR SIMILAR

WILDFLOWERS - 20%
1.8% ANGELICA *(Genus angelica)*
0.4% BETONY *(Common hedgenettle)*
3.5% BROWNTOP VERNAL *(Anthoxanthum odoratum)*
1.6% COMMON KNAPWEED *(Centaurea nigra)*
0.2% FLEABANE *(Pulicaria dysenterica)*
0.4% GREAT BURNET *(Sanguisorba officinalis)*
0.6% GREATER BIRDSFOOT TREFOIL *(Centaurea scabiosa)*
0.4% GYPSYWORT *(Lycopus europaeus)*
0.6% HARD RUSH *(Juncus inflexus)*
0.4% HEMP AGRIMONY *(Eupatorium cannabinum)*
1.6% MEADOW BUTTERCUP *(Ranunculus acris)*
1% MEADOWSWEET *(Filipendula ulmaria)*
0.8% OXEYE DAISY *(Leucanthemum vulgare)*
0.2% PENDULOUS SEDGE *(Carex pendula)*
0.2% PURPLE LOOSESTRIFE *(Lythrum salicaria)*
0.4% RAGGED ROBIN *(Lychnis flos-cuculi)*
0.8% RED CAMPION *(Silene dioica)*
1.2% SELFHEAL *(Prunella vulgaris)*
0.6% SOFT RUSH *(Juncus effusus)*
0.4% SNEEZEWORT *(Achillea ptarmica)*
0.4% SQUARE STEMMED ST JOHN'S WORT *(Hypericum perforatum)*
0.6% TUFTED VETCH *(Vicia cracca)*
0.6% WATER AVENS *(Geum rivale)*
2.8% YELLOW FLAG IRIS *(Iris pseudacorus)*
2% YELLOW RATTLE *(Rhinanthus minor)*

GRASSES - 80%
11.2% CRESTED DOGSTAIL *(Cynosurus cristatus)*
21% HARD FESCUE *(Festuca trachyphylla)*
1.4% MEADOW FOXTAIL *(Alopecurus pratensis)*
5% ROUGH STALKED MEADOW GRASS *(Poa trivialis l.)*
21% SLENDER CREEPING RED FESCUE *(Festuca rubra litoralis)*
3.5% SMALL LEAF TIMOTHY *(Phleum bertolonii 'smaller catstail')*
7% SMOOTH STALKED MEADOW GRASS *(Poa pratensis 'kentucky bluegrass')*
1.4% SWEET VERNAL *(Anthoxanthum odoratum)*
5% TUFTED HAIRGRASS *(Deschampsia cespitosa)*

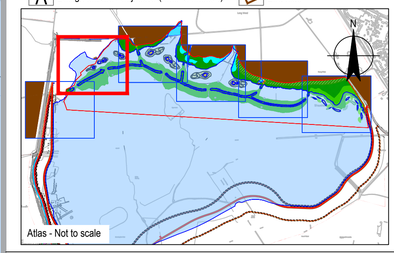
SOWING TIME
SPRING: MARCH TO MAY
SUMMER: JUNE TO JULY, AVOIDING EXCESSIVELY HOT AND DRY CONDITIONS
LATE SUMMER/AUTUMN: AUGUST TO OCTOBER
WILDFLOWER PLUGS - LATE AUGUST TO MID-NOVEMBER OR MARCH/APRIL
AQUATIC PLANTS - MAY/JUNE OR SEPTEMBER / OCTOBER



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (UNO).
2. ALL LEVELS ARE IN METRES TO ORDNANCE DATUM UNO.
3. BIRD HIDE / INTERPRETATION BUILDING LOCATIONS SHOWN INDICATIVELY. DETAILS OF BIRD HIDE / INTERPRETATION BUILDINGS TO BE SUBJECT TO SEPARATE RESERVED MATTERS APPLICATION AS PART OF THE VISITOR CENTRE PHASE TO ENSURE CONSISTENCY OF DESIGN.
4. THE DETAILS OF HARD AND SOFT LANDSCAPING AS SHOWN ON THIS PLAN ARE SUBMITTED FOR RESERVED MATTERS APPROVAL. THE DETAILED PLANTING MIX, HARD LANDSCAPING MATERIALS SPECIFICATION AND THE DETAILED MANAGEMENT AND MAINTENANCE PROPOSALS FOR THE HARD AND SOFT LANDSCAPING WILL BE SUBMITTED SUBSEQUENTLY FOR THE DISCHARGE OF CONDITION 28. WHERE THOSE DETAILS ARE DESCRIBED ON THESE PLANS THIS IS TO AID THE UNDERSTANDING OF THE RESERVED MATTERS PROPOSALS. THE DETAILS TO BE SUBMITTED UNDER CONDITION 28 WILL ACCORD WITH THAT SHOWN ON THESE PLANS UNLESS OTHERWISE AGREED BY THE LPAS.

Key
39.5 contour - top water level for main reservoir
RMA Application Boundary
Existing
Vegetation to be retained
Vehicle access / permissive path
Proposed
Woodland
Islands
Wet woodland
Raised landform
Scrub mix
Ephemeral shallow
Wildflower seeding - EM5
Gate
Wet and Water Edge Mix - Barenbrug
Stockproof fence
A Design feature / objective (refer to sheet 1)
Bird hide



REFERENCE DOCUMENTS AND DRAWINGS

PLEASE REFER TO THE BELOW DRAWINGS:
HTR-GHD-WL-ZZ-DR-L-0012 - WETLANDS RETAINING STRUCTURE, OVERALL DESIGN STRATEGY
HTR-GHD-WL-ZZ-DR-L-0050 - WETLANDS RETAINING STRUCTURE, LANDSCAPE AND ECOLOGY PROPOSALS
HTR-GHD-WL-ZZ-DR-L-0051 - WETLANDS RETAINING STRUCTURE, ACTIVE WATER CONTROL FEATURE - PENSTOCK DETAIL
HTR-GHD-WL-ZZ-DR-L-0052-55 - WETLANDS RETAINING STRUCTURE, SPILLWAY ARRANGEMENTS
HTR-GHD-WL-ZZ-DR-S-0062-65 - WETLANDS RETAINING STRUCTURE, ACTIVE WATER CONTROL PENSTOCK CHAMBER DETAILS.

Rev	Description	Checked	Approved	Date
P08	CLIENT COMMENTS	SWG	SWG	02/05/2024
P06	CLIENT COMMENTS	SWG	SWG	06/03/2024
P05	CLIENT COMMENTS	SWG	SWG	06/12/2023
P04	FOR APPROVAL	SWG	SWG	29/11/2023
P03	FOR COMMENTS	SWG	SWG	23/11/2023
P02	CLIENT AMENDMENTS	SWG	SWG	07/11/2023
P01	INITIAL ISSUE	SWG	SWG	30/08/2023

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Portsmouth Water

Future Water MJJV Ltd

GHD

Project No. 12547181

Client PORTSMOUTH WATER

Project HAVANT THICKET RESERVOIR

Status FOR APPROVAL | Status Code S4

Drawing Title WETLANDS RETAINING STRUCTURE - LANDSCAPE GENERAL ARRANGEMENT SHEET 2 0F 6

Size A1

Drawing No. HTR-GHD-WL-ZZ-DR-L-0057 | Rev P07

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