OUTLINE SPECIFICATION

GENERAL

ALL OPERATIONS WILL BE CARRIED OUT BY A COMPETENT AND QUALIFIED LANDSCAPE CONTRACTOR IN LINE WITH BEST PRACTICE METHODS SUITABLE FOR THE WORKS AS OUTLINED BELOW:

IN ADDITIONAL TO THOSE STANDARDS LISTED WITHIN THE SPECIFICATION, ALL WORKS TO CONFORM TO THE FOLLOWING BRITISH STANDARDS:-
BS 3882 - SPECIFICATION FOR TOPSOIL
BS 3969 - RECOMMENDATIONS FOR TURF FOR GENERAL PURPOSES
BS 3998 - RECOMMENDATIONS FOR TREE WORK
BS 4428:1989 - GENERAL LANDSCAPE OPERATIONS EXCLUDING HARD SURFACES
BS 5837 - TREES IN RELATION TO CONSTRUCTION - RECOMMENDATIONS

VEGETATION PROTECTION
ALL EXISTING VEGETATION TO BE RETAINED IN LINE WITH THE RECOMMENDATIONS OF BS 5837. THE POSITION OF THE FENCING WILL BE AS SET OUT WITH SUBMITTED ARBORICULTURAL ASSESSMENT AND METHOD STATEMENT AND REMAIN IN PLACE UNTIL ALL SITE WORKS ARE COMPLETE.

SITE PREPARATION
SOILS
EXISTING SOIL TO BE UTILISED ON SITE WHERE POSSIBLE AND SHOULD BE TO THE FOLLOWING MINIMUM DEPTHS:-

TREES - 1M (400MM TOPSOIL)
SHRUBS - 600MM (300MM TOPSOIL)
GRASS AREA - 300MM (150MM TOPSOIL)
WILDFLOWER GRASSLAND MEADOW AREA- 150MM TOPSOIL/ SUBSOIL 50:50 MIXTURE TO PROVIDE A LOW FERTILITY SEED BED.

MANAGEMENT OF SOILS WITHIN THE SITE, MAINTAINING THE QUALITY OF THE DIFFERENT SOIL RESOURCE AND SUITABILITY FOR RE-USE WITHIN THE PROJECT IS COVERED WITHIN THE SOIL MANAGEMENT PLAN DOC REF:HTR-FUW-P2-RE-RM-W-0006. AS SET OUT WITH PARA 1.0.4 & 1.0.5. SOIL RE-USE REQUIREMENTS AND RESOURCE ARE COVERED IN SECTION 5 AND TABLE 2. PROCEDURES FOR STRIPPING, STORING AND REPLIACING SOILS SEE SECTION 6.

THE TOP 300MM LAYER OF COMPACTED TOPSOIL IN PLANTING AREA SHALL BE BROKEN UP PRIOR TO PLANTING. NO DIGGING OR SOIL CULTIVATION SHALL BE CARRIED OUT WITHIN THE ROOT SPREAD OF TREES AND SHRUBS TO BE RETAINED.

ALL PLANTS IN CONTAINERS WILL BE WATERED PRIOR TO PLANTING.

ALL PLANTING AREAS WILL BE HAND STONE PICKED BEFORE PLANTING COMMENCES.

STORAGE OF SOIL
SITE WON TOPSOIL WILL BE STORED IN LOCATIONS AS AGREED BY THE SITE MANAGER AND IN LINE WITH THE SOIL MANAGEMENT PLAN DOC REF: HTR-FUW-P2-RE-RM-W-0006
TREE AND SHRUB PLANTING
TIMING OF TREE PLANTING
ROOTBALLED TREES TO BE PLANTED NOVEMBER TO APRIL
CONIFERS/ EVERGREENS/ CONTAINERISED PLANTING STOCK TO BE PLANTED SEPTEMBER/ OCTOBER OR APRIL/ MAY.

PREPARATION OF TREE PITS
APPROXIMATELY 1.0M X 1.0M X 1.0M DEEP, OR SUFFICIENT TO ALLOW 500MM CLEARANCE AROUND THE ROOTS. THE SOIL AT THE BASE OF THE PIT TO BE BROKEN UP BEFORE THE ROOTBALL IS POSITIONED.
ALL TREE PITS SHALL BE BACKFILLED WITH A PREVIOUSLY PREPARED MIXTURE OF TOPSOIL EXCAVATED FROM THE PIT AND ADDITIONAL TOPSOIL AS REQUIRED.

COMPOST
50 LITRES OF TREE PLANTING COMPOST TO BE SUPPLIED TO EACH PIT BEFORE SOIL IS BACKFILLED AND FIRMED AT A RATE OF ONE PART TREE PLANTING COMPOST TO THREE PARTS SOIL.

STAKES TO STANDARD TREES
STAKES TO BE SUPPLIED, MACHINE ROUNDED, POINTED AND TANALISED, 1.75M LONG WITH 1M BELOW GROUND. STAKES TO BE FIXED USING A BUCKLE, TREE TIE AND SPACER.

UNDERGROUND GUYING TO HEAVY STANDARD TREES
ALL PROPOSED TREES SHALL BE SECURED WITH LARGE ANCHOR STRAP SYSTEM WITH DRIVE IN LARGE HEAVY-DUTY ANCHORS, INCORPORATING A SUITABLE ROOT IRRIGATION/ AERATION SYSTEM, TO BE INSTALLED TO MANUFACTURER'S SPECIFICATION.

NATIVE PLANTING
TIMING OF PLANTING
DECIDUOUS SHRUBS TO BE PLANTED LATE OCTOBER TO MARCH/ APRIL.
EVERGREEN SHRUBS TO BE PLANTED SEPTEMBER / OCTOBER OR MARCH / MAY

SHRUB PLANTING PITS
SIZE OF PIT WIDE ENOUGH TO ACCOMMODATE ROOTS WHEN FULLY SPREAD AND 75MM DEEPER THAN ROOT SYSTEM.
BREAK UP BASE OF PIT TO A DEPTH OF 150MM, INCORPORATING 25G SLOW-RELEASE FERTILISER PER PLANTS PIT.
BACKFILLING MATERIAL: RE-USE EXCAVATED MATERIAL.

MARGINALS-AQUATIC PLANTING
POSITION MARGINAL PLANTING/ SEEDING ALONG THE BOUNDARY OF THE WETLAND AT WATERS EDGE (BETWEEN 38.5 AND THE 39.5 CONTOUR LEVEL).
PLANTS SHOULD BE PLANTED TO THE SAME DEPTH AS IN THE ORIGINAL CONTAINER.

WATERING
ALL PLANTED AREAS WILL BE WATERED AS APPROPRIATE AFTER PLANTING.

PLANT PROTECTION
CONTRACTOR TO REVIEW THE SITE AND CONTEXT TO INFORM PLANT PROTECTION STRATEGY. TREE / SHRUB SHELTERS OR PROTECTIVE FENCING.
CARE SHALL BE TAKEN TO AVOID COVERING LOW GROWING SPECIES.

SEEDING
TIMING OF SEEDING
SEEDING WORK WILL BE CARRIED OUT IN THE APPROPRIATE GROWING SEASON AND WHEN WEATHER CONDITIONS ARE SUITABLE.
SEED MIX IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATION.

PREPARATION FOR SEEDING
THE CONTRACTOR SHALL ENSURE THAT ALL GRASS SEEDED AREAS DEVELOP INTO A HEALTHY, VIGOROUS GRASS SWARD, FREE FROM THE VISIBLE EFFECTS OF PESTS, WEEDS AND DISEASE. THEY SHALL FORM A CLOSELY KNIT, CONTINUOUS GROUND COVER OF EVEN DENSITY, HEIGHT AND COLOUR.

ALL SOILED AREAS WILL BE ROTARY CULTIVATED TO AT LEAST 300MM, STONE PICKED AND PROFILED LEVEL PRIOR TO SEEDING/ TURFING. SEED SHALL BE SOWN ONTO A FINE, FIRM, WEED-FREE SEEDBED, WITH SUBSEQUENT MONITORING AND MANAGEMENT. REPEATED CULTIVATION AND/OR FALLOW PERIODS SHALL BE UNDERTAKEN AS NECESSARY, TO CONTROL UNDESIRABLE WEED GROWTH AND PROMOTE SUCCESSFUL ESTABLISHMENT OF THE SPECIES-RICH SWARD.

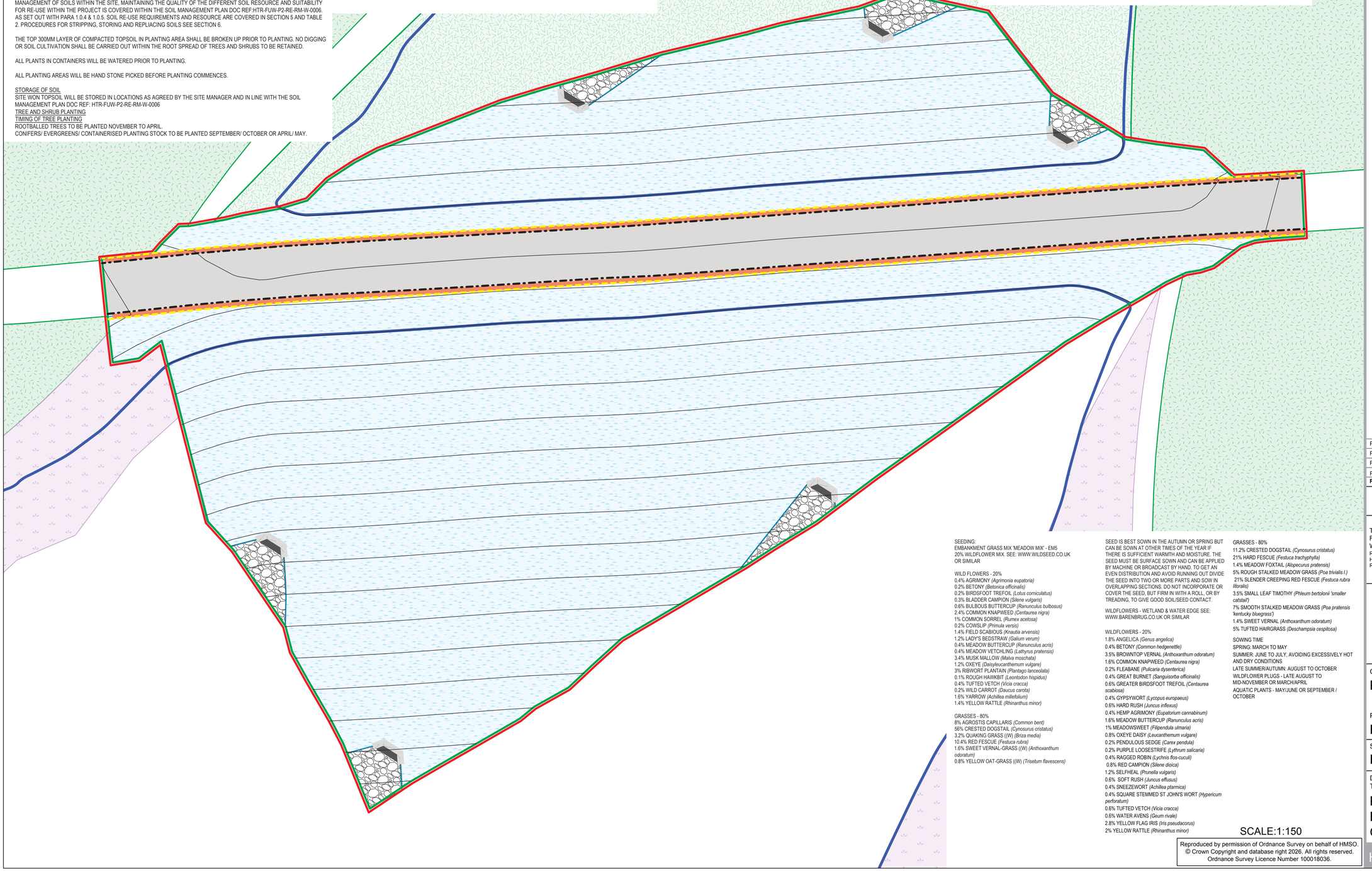
ANY AREAS WHERE MACHINERY CANNOT GAIN ACCESS WILL BE PREPARED BY HAND. NO DIGGING OR SOIL CULTIVATION SHALL BE CARRIED OUT WITHIN THE ROOT SPREAD OF TREES AND SHRUBS TO BE RETAINED.

ESTABLISHMENT OF SPECIES-RICH GRASSLAND
DURING THE ESTABLISHMENT PHASE MAINTENANCE CUTS WILL BE UNDERTAKEN AND SELECTIVE REMOVAL OR TREATMENT OF INJURIOUS, INVASIVE AND OTHER UNDESIRABLE WEED SPECIES AS REQUIRED TO PREVENT DOMINATION BY UNDESIRABLE SPECIES AND PROMOTE SUCCESSFUL MEADOW ESTABLISHMENT.

MOWING
REGULAR MOWING OF THE AMENITY GRASSLAND AREAS. MOWING ALL OR SOME OF THE SCRAPE / MARGINAL AREAS ANNUALLY MAY BE REQUIRED.
ANNUAL HAY / GRASSLAND CUT OF MEADOW HABITAT AREAS, ALLOWING FOR SEEDING BEFORE COLLECTING CUTTINGS.

WATERING
ALL GRASS AREAS WILL BE WATERED AS NECESSARY UNTIL ESTABLISHED.

WEED CONTROL
THE USE OF MULCH MATS AND BARK MULCH SHOULD BE CONSIDERED WITH HAND WEEDING DUE TO ECOLOGICAL SENSITIVITY. HERBICIDE USE SUBJECT TO AGREEMENT WITH LANDSCAPE ARCHITECT.



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

SCALE:1:150

Reproduced by permission of Ordnance Survey on behalf of HMSO.
© Crown Copyright and database right 2026. All rights reserved.
Ordnance Survey Licence Number 100018036.

KEY

- APPLICATION AREA
- TOP WATER LEVEL - 39.5MAoD
- EMBANKMENT FOOTPRINT
- EMBANKMENT CONTOURS
- FORESTRY ENGLAND TRACK - CRUSHED STONE DRESSED TRACK TO MATCH EXISTING TRACK
- HEADWALL AND SCOUR PROTECTION LOCATIONS
- WETLANDS AND WATER'S EDGE MIX
- SAFETY BARRIER
- STOCKPROOF FENCE

PROPOSALS FROM PHASE 2

EXISTING

- VEGETATION TO BE RETAINED

PROPOSED

- WET WOODLAND
- WILDFLOWER SEEDING - EM5

Scale 1: 150 at original size

0 2.5 5 10 metres

Rev	Description	Checked	Approved	Date
P04		AT	LS	16-09-26
P03		AT	LS	10-08-26
P02		AT	LS	20-07-26
P01	FIRST ISSUE - FOR PLANNING SUBMISSION	AT	LS	26-06-26

Author MS **Drafting Check** LS
Designer RM **Design Check** PN

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
RegisteredOffice: POBox8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Portsmouth Water

Future Water
Mackley & Jones Bros. JV

Client
PORTSMOUTH WATER

Project
HAVANT THICKET RESERVOIR

Status
FOR INFORMATION
Status Code S2

Drawing Title
PHASE 6 - FE TRACK - EAST AREA LANDSCAPE GENERAL ARRANGEMENT

Size A1

Drawing No. HTR-FUW-P6-RP-DR-T-3194

Rev P04