

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 REPLACING 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 SEEDD 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 veris*)
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% MUSH MALLOW (*Malva moschata*)
1.2% OXEYE (*Daisyaleucanthemum 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% GUANOING GRASS (W) (*Eritra 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 hedgerelle*)
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 LOOSESTRIPE (*Lythrum salicaria*)
0.4% RAGGED ROBIN (*Lychnis flo-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 RUS (*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 catstar')
7% SMOOTH STALKED MEADOW GRASS (*Poa pratensis* 'kentucky bluegrass')
1.4% SWEET VERNAL (*Anthoxanthum odoratum*)
5% TUFTED HAIRGRASS (*Deschampsia cespitosa*)

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

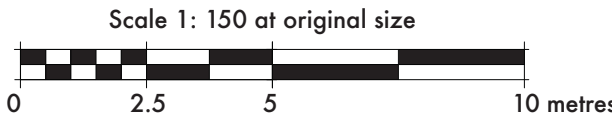
PROPOSALS FROM PHASE 2

EXISTING

- VEGETATION TO BE RETAINED

PROPOSED

- WOODLAND
- WILDFLOWER SEEDING - EM5



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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
Registered Office: POBox8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455



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 - WEST AREA LANDSCAPE GENERAL ARRANGEMENT

Size

A1

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SCALE:1:150

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