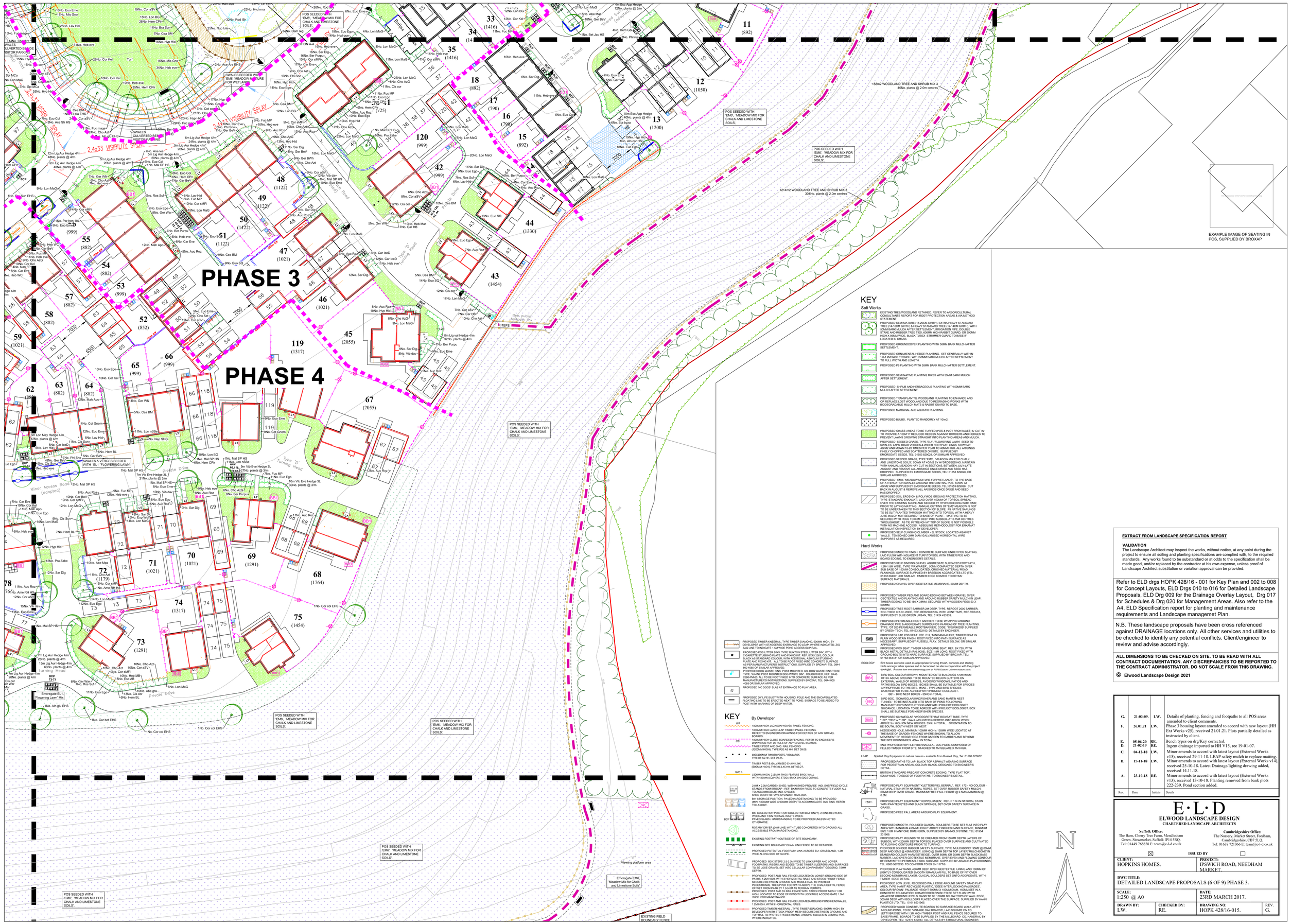

KEY

Soft Works

- EXISTING TREE/WOODLAND RETAINED. REFER TO ARBORICULTURAL CONSULTANTS REPORT FOR ROOT PROTECTION AREAS & AIA METHOD STATEMENT.
- PROPOSED SEMI MATURE (18-20CM GIRTH), EXTRA HEAVY STANDARD TREE (14-16CM GIRTH) & HEAVY STANDARD TREE (12-14CM GIRTH), WITH 50MM BARK MULCH AFTER SETTLEMENT, IRRIGATION PIPE, DOUBLE STAKE AND RUBBER TREE TIES, 600MM HIGH RABBIT GUARD, OR 200MM HIGH X 50MM WIDE, BLACK TUBEX STRIMMER GUARD TO BASE IF LOCATED IN GRASS.
- PROPOSED GROUNDCOVER PLANTING WITH 50MM BARK MULCH AFTER SETTLEMENT.
- PROPOSED ORNAMENTAL HEDGE PLANTING. SET CENTRALLY WITHIN 1.0-1.2M WIDE TRENCH, WITH 50MM BARK MULCH AFTER SETTLEMENT TO FULL WIDTH AND LENGTH.
- PROPOSED PS PLANTING WITH 50MM BARK MULCH AFTER SETTLEMENT.
- PROPOSED SEMI NATIVE PLANTING MIXES WITH 50MM BARK MULCH AFTER SETTLEMENT.
- PROPOSED SHRUB AND HERBACEOUS PLANTING WITH 50MM BARK MULCH AFTER SETTLEMENT.
- PROPOSED TRANSPLANT/SL WOODLAND PLANTING TO ENHANCE AND OR REPLACE LOST WOODLAND DUE TO REGRADING WORKS WITH BIODEGRADABLE MULCH MATS & RABBIT GUARD TO BASE.
- PROPOSED MARGINAL AND AQUATIC PLANTING.
- PROPOSED BULBS. PLANTED RANDOMLY AT 10/m2.
- PROPOSED GRASS AREAS TO BE TURFED (POS & PLOT FRONTAGES) & 'CUT IN' TO PROVIDE A 100M 'V' REDUCED RECESS AGAINST BORDERS AND HEDGES TO PREVENT LAWNS GROWING STRAIGHT INTO PLANTING AREAS AND MULCH.
- PROPOSED SEEDED GRASS, TYPE 'EL1', 'FLOWERING LAWN' SEED TO SWALES, LAPS, ROAD VERGES & WIDER FOOTPATH LINKS. SOWN AT 4G/M2 AND MOWN 15-20 TIMES PER YEAR TO 40MM HIGH. ALL ARISINGS FINELY CHOPPED AND SCATTERED ON SITE. SUPPLIED BY EMORSGATE SEEDS, TEL: 01553 829028, OR SIMILAR APPROVED.
- PROPOSED SEEDED GRASS, TYPE 'EM6', 'MEADOW MIX FOR CHALK AND LIMESTONE SOILS'. SOWN AT 4G/M2 BY HYDROSEEDING. MAINTAIN WITH ANNUAL MEADOW HAY CUT IN SECTIONS, BETWEEN JULY-LATE AUGUST AND REMOVE ALL ARISINGS ONCE DRIED AND SEED HAS DROPPED. SUPPLIED BY EMORSGATE SEEDS, TEL: 01553 829028, OR SIMILAR APPROVED.
- PROPOSED 'EM8', 'MEADOW MIXTURE FOR WETLANDS', TO THE BASE OF ATTENUATION SWALES AROUND THE CENTRAL POS. SOWN AT 4G/M2 AND SUPPLIED BY EMORSGATE SEEDS, TEL: 01553 829028. CUT BACK IN AUGUST & REMOVE ALL ARISINGS ONCE DRIED AND SEED HAS DROPPED.
- PROPOSED SOIL EROSION & POLYMIDE GROUND PROTECTION MATTING, TYPE 'STANDARD ENKAMAT'. LAID OVER 150MM OF TOPSOIL SPREAD OVER THE EXISTING SLOPE AND SEEDED BY HYDROSEEDING WITH 'EM8'. PRIOR TO LAYING MATTING, ANNUAL CUTTING OF 'EM8' MEADOW IS NOT TO BE UNDERTAKEN TO THIS SECTION OF SLOPE. P9 NATIVE SAPLINGS TO BE SLIT PLANTED THROUGH MATTING INTO TOPSOIL WITH A HEAVY JUTE MULCH MAT SECURED TO BASE OF PLANT. MATTING TO BE SECURED WITH PEGS TO 0.8M DEEP INTO SUBSOIL AT 0.75M CENTRES THROUGHOUT. AS TIE IN TRENCH AT TOP OF SLOPE IS NOT POSSIBLE DUE TO GRADIENTS, REFER TO ENGINEERS METHODOLOGY FOR ENKAMAT INSTALLATION/INSPECTION BY DEVELOPER.
- PROPOSED SELF CLINGING CLIMBER - SL STOCK, LOCATED AGAINST WALLS. TENSIONED 2MM SMM GALVANISED HORIZONTAL WIRE SUPPORTS AS REQUIRED.

Hard Works

- PROPOSED SMOOTH FINISH, CONCRETE SURFACE UNDER POS SEATING. LAID FLUSH WITH ADJACENT TURF/TOPSOIL WITH TIMBER PEG AND BOARD EDGING, TO ENGINEER'S DETAILS.
- PROPOSED SELF BINDING GRAVEL AGGREGATE SURFACED FOOTPATH, 1.2M-1.8M WIDE. TYPE 'WAYFARER'. 50MM COMPACTED DEPTH OVER SUB BASE OF 150MM CONSOLIDATED, CRUSHED MATERIAL ROAD PLANNGS. SURFACE SUPPLIED BY BREEDON AGGREGATES LTD (TEL: 01332 862587). 150MM TIMBER EDGE BOARDS TO RETAIN SURFACE MATERIALS.
- PROPOSED GRAVEL OVER GEOTEXTILE MEMBRANE. 50MM DEPTH.
- PROPOSED TIMBER PEG AND BOARD EDGING BETWEEN GRAVEL OVER GEOTEXTILE AND PLANTING AND AROUND RUBBER SAFETY MULCH IN LEAP. TIMBER EDGING TO BE 150 X 38MM. SECURED WITH WOODEN PEGS 50 X 600MM.
- PROPOSED TREE ROOT BARRIER (NO DEEP TYPE). REROOT 2000 BARRIER, 2M X 2M X 0.6M DEEP. REFER TO DRAWINGS FOR LENGTH, WITH 2M TAPE. REF RERUTA, SUPPLIED BY BLUE GREEN URBAN, TEL: 01424 433233.
- PROPOSED PERMEABLE ROOT BARRIER, TO BE WRAPPED AROUND DRAINAGE PIPE & AGGREGATE SURROUNDS IN AREAS OF TREE PLANTING. TYPE, 'DT 350 PERMEABLE ROOTBARRIER', CODE, 170UR4020E SUPPLIED BY GREEN-TECH, TEL: 01423 332100. DETAILS BY ENGINEER.
- PROPOSED LEAP POS SEAT. REF. F19. 'MINIBANK-ALEN'. TIMBER SEAT IN PLAIN WOOD STAIN FINISH. ROOT FIXED INTO PATH SURFACE AS NECESSARY. SUPPLIED BY RUSSELL PLAY. DETAILS BELOW, OR SIMILAR APPROVED.
- PROPOSED POS SEAT: TIMBER ASHBOURNE SEAT, REF. BX 720, WITH BLACK METAL DETAILS (RAL 9005). SIZE 1.8M LONG. ROOT FIXED WITH GROUND BOLTS INTO HARD SURFACE. SUPPLIED BY BROXAP, TEL: 01782 564411 OR SIMILAR APPROVED.

ECOLOGY

Bird boxes are to be used as appropriate for song thrush, dunnock and starling birds amongst other species and to be located on site in conjunction with the project ecologist. Available from www.abcawildlife.com or 35PB Enclosure Ltd www.enclosure.co.uk

- BB1 — BIRD BOX, COLOUR BROWN, MOUNTED ONTO BUILDINGS A MINIMUM OF 3m ABOVE GROUND. TO BE MOUNTED BELOW GUTTERS ON EXTERNAL WALLS OF HOUSES. AVOIDING WINDOWS, PATIOS AND PATHS BELOW BIRD BOXES. BOXES SHALL BE SUITABLE FOR SPECIES APPROPRIATE TO THE SITE. SMALL TYPE AND BIRD SPECIES SHALL BE AGREED WITH PROJECT ECOLOGIST.
  - BB1 - BIRD NEST BOXES - 35NO.in TOTAL.
- BB2 — BIRD BOX, 'SCHWEGLAR KINGFISHER AND SAND MARTIN NEST TUNNEL'. TO BE INSTALLED INTO BANK OF POND FOLLOWING MANUFACTUER'S INSTRUCTIONS AND WITH PROJECT ECOLOGIST GUIDANCE. LOCATION TO BE AGREED WITH PROJECT ECOLOGIST. BOX SHALL BE SUITABLE FOR KINGFISHER SPECIES.
- BB3 — PROPOSED SCHWEGLAR "WIDOCRETE" BAT &DORMAT TUBE, TYPE "2FN" or "1FR". WALL-MOUNTED/IMBEDDED INTO BRICK WORK ABOVE 5m HIGH ON NEW HOUSES. 20No.IN TOTAL. ORIENTATION TO BE SOUTH, SOUTH WEST OR WEST
- HH — HEDGEHOG HOLE, MINIMUM 100MM HIGH x 130M WIDE LOCATED AT THE BASE OF GARDEN FENCING WHERE SHOWN, TO ALLOW MOVEMENT OF HEDGEHOGS FROM GARDEN TO GARDEN AND BEYOND THE SITE BOUNDARIES. 43No. IN TOTAL.
- RP — 6NO PROPOSED REPTILE HIBERNACULA - LOG PILES, COMPOSED OF FELLED TIMBER FROM SITE, STACKED TO 1M SQUARE X 1M HIGH.

LEAP — Spielart Play Equipment in natural colours - available from Russell Play, Tel: 01590 675652

- PROPOSED PATHS TO LAP: BLACK TOP ASPHALT WEARING SURFACE FOR PEDESTRIAN AREAS, COLOUR: BLACK. DESIGNED TO ENGINEER'S DETAIL.
- BRITISH STANDARD PRECAST CONCRETE EDGING, TYPE 'FLAT TOP', 50MM WIDE, TO EDGE OF FOOTPATHS, TO ENGINEER'S DETAIL.
- PROPOSED PLAY EQUIPMENT 'KLETTERSPIEL BERNAU'. REF. I.72 - NO COLOUR - NATURAL STAIN WITH NATURAL ROPES, SET OVER RUBBER SAFETY MULCH, 300MM DEEP OVER GRASS. MAXIMUM FREE FALL HEIGHT @ 2.5M to MINIMUM @ 0.5M.
- PROPOSED PLAY EQUIPMENT 'HOPPELHASEN'. REF. P 114 IN NATURAL STAIN WITH PAINTED EYES AND BLACK SPRINGS, SET OVER SAFETY SURFACE IN GRASS.
- PROPOSED FREE FALL AREAS AROUND PLAY EQUIPMENT.
- PROPOSED SMOOTH, ROUNDED GLACIAL BOULDERS TO BE SET FLAT INTO PLAY AREA WITH MINIMUM 450MM HEIGHT ABOVE FINISHED SAND SURFACE, MINIMUM SIZE 1.0M IN ANY ONE DIMENSION, SUPPLIED BY BANNOLD STONE, TEL: 01954 231666.
- PROPOSED PLAY MOUNDS TO BE CREATED FROM 150MM DEPTH LAYERS OF SUBSOIL WITH 200MM DEPTH TOPSOIL PLACED OVER SURFACE AND CULTIVATED TO FLOWING CONTOURS PRIOR TO TURFING.
- PROPOSED BONDED RUBBER SAFETY SURFACE, TYPE 'MULCHBOND' 95M2 @ 80MM DEEP AND 33M2 @ 45MM DEEP, USING @ 20MM DEPTH TOP LAYER 'MULCHBOND' IN STANDARD COLOUR 'HARVEST BEIGE'. OVER 80MM OR 25MM DEPTH BLACK BASE RUBBER, LAID OVER GEOTEXTILE MEMBRANE, OVER EVEN AND FLOWING CONTOUR OF COMPACTED PERMEABLE SOIL SUBBASE. SUPPLIED BY ABACUS PLAYGROUNDS, TEL: 0800 5875290. TO CONFORM TO BS EN 11776.
- PROPOSED PLAY SAND, 400MM DEEP OVER GEOTEXTILE LINING AND 100MM OF LIGHTLY CONSOLIDATED SMOOTH GRANULAR FILL TO BASE OF PIT OVER SECOND MEMBRANE LAYER. GLACIAL BOULDERS SET ONTO AGGREGATE, WITH TIMBER EDGE DETAIL.
- PROPOSED LOW LEVEL RECESSED WALL EDGE AROUND SAFETY SAND PLAY AREA, TYPE 'HANIT' RECYCLED PLASTIC, 'OGEE INTERLOCKING PALISADES', COLOUR 'BROWN'. PALISADE HEIGHT 600MM X 100MM DIAM. 150MM SET IN A CONCRETE FOOTING, 300MM DEEP X 300MM WIDE. TOP OF WALL TO BE ADJACENT GROUND LEVELS. SAND TO BE 150MM BELOW TOPS OF WALL EDGE. 300MM DEEP WITH BOULDERS PLACED OVER THE SURFACE. SUPPLIED BY HAHN PLASTICS LTD, TEL: 01951 850190.
- PROPOSED WOOD CONSTITUTE BOARDS TO SURFACE BOARD WALK JETTY AROUND POND. TO BE 'VINTAGE OAK BOARDS', LAID SQUARE ON TO JETTY/BRIDGE WITH 1.3M HIGH TIMBER POST AND RAIL FENCE SECURED TO BASE FRAME. BOARDS TO BE SUPPLIED BY THE MALVERN LTD. CONTACT: CL HANDRAL BY DEVELOPER, TEL: 02476 435943. ALL DETAILS BY STRUCTURAL ENGINEER.
- DEP — PROPOSED TIMBER KNEERAIL, TYPE TIMBER DIAMOND, 600MM HIGH, BY DEVELOPER WITH STAGGERED ENTRANCE TO LEAP. WHERE INDICATED. ZIG ZAG LINE TO INDICATE 1.5M WIDE POND ACCESS SLIP RAIL.
- PROPOSED POS LITTER BINS: TYPE 'BULKTON STEEL LITTER BIN', WITH 'DOME' LITTER DISPOSAL LID, CAPACITY 90LITRES, COLOUR DARK BLACK AS STANDARD COLOUR, WITH ADDITIONAL ABMSUM STUDDING PLATE AND FIXING KIT. ALL TO BE ROOT FIXED INTO CONCRETE SURFACE AS PER MANUFACTURER'S INSTRUCTIONS. SUPPLIED BY BROXAP, TEL: 0844 800 4088 OR SIMILAR APPROVED.
- PROPOSED DOG WASTE BINS: POST MOUNTED, 60L DOG WASTE BINS TO BE TYPE, 'KAINE POST MOUNTED DOG WASTE BIN'. COLOUR RED, REF. BX45 SUPPLIED BY BROXAP, ROOT FIXED INTO CONCRETE SURFACE AS PER MANUFACTURER'S INSTRUCTIONS. SUPPLIED BY BROXAP, TEL: 0844 800 4088 OR SIMILAR APPROVED.
- PROPOSED 'NO DOGS' SLAB AT ENTRANCE TO PLAY AREA.
- PROPOSED 30" LIFE BUOY WITH HOUSING, POLE AND THE ENCAPSULATED FLOATING LINE TO BE ERECTED NEXT TO POND. SIGNAGE TO BE ADDED TO POST WITH WARNING OF DEEP WATER.

KEY

By Developer

- DP — 1800MM HIGH JACKSON WOVEN PANEL FENCING.
- 1800MM HIGH LARCH LAP TIMBER PANEL FENCING. REFER TO ENGINEERS DRAWINGS FOR DETAILS OF ANY GRAVEL BOARDS.
- CF — 1800MM HIGH CLOSE BOARDED FENCING. REFER TO ENGINEERS DRAWINGS FOR DETAILS OF ANY GRAVEL BOARDS.
- TIMBER POST AND 3NO. RAIL FENCING (1200MM HIGH). TYPE RIS AS HH. DET 09.08.
- 100X100MM TIMBER POSTS / BOLLARDS TYPE RB AS HH. DET 09.23.
- TIMBER POST & GALVANISED CHAIN-LINK (600MM HIGH), TYPE R13 AS HH. DET 09.27.
- 1800 x — 1800MM HIGH, 215MM THICK FEATURE BRICK WALL WITH 440MM SQ PIERS. STOCK BRICK ON EDGE COPING.
- SHED — 2.0M X 2.0M GARDEN SHED. WITHIN SHED PROVIDE 1NO. SHEFFIELD CYCLE STANDS FROM BRDHAP - REF: BIANWSH FIXED TO CONCRETE FLOOR AS TO ACCOMMODATE 2NO. CYCLES. SHED DOOR TO HAVE CYLINDER RIM LOCK.
- BIN — BIN STORAGE POSITION. PAVED HARDSTANDING TO BE PROVIDED (MIN. 1600MM WIDE X 900MM DEEP) TO ACCOMMODATE 3NO BINS. REFER TO LAYOUT.
- BCP — BIN COLLECTION POINT (ON COLLECTION DAY ONLY). 2 BINS RECYLING WEEK AND 1 BIN NORMAL WASTE WEEK. PAVED SLABS / HARDSTANDING TO BE PROVIDED UNLESS NOTED OTHERWISE.
- ROTARY DRYER (30M LINE) WITH TUBE CONCRETED INTO GROUND ALL ACCESSIBLE FROM HARDSTANDING.
- EXISTING FOOTPATH OUTSIDE OF SITE BOUNDARY.
- EXISTING SITE BOUNDARY CHAIN LINK FENCE TO BE RETAINED.
- PROPOSED POTENTIAL FOOTPATH LINK ACROSS EL1 GRASSLAND, 1.2M WIDE ALONG SIDE OF SLOPE.
- PROPOSED 8OX STEPS 2.5-3.0M WIDE TO LINK UPPER AND LOWER FOOTPATHS. RISERS AND EDGES TO BE TIMBER SLEEPERS AND SURFACES TO BE LOSE GRAVEL SET INTO CELLULAR CONFINEMENT GEOGRID, 75MM DEPTH.
- PROPOSED POST AND RAIL FENCE LOCATED ON LOWER GROUND SIDE OF SWALE. TYPE 'TIMBER KNEERAIL', TYPE TIMBER DIAMOND. 600MM HIGH OF FENCE SECURED BETWEEN GROUND AND MIDDLE RAIL TO PROTECT PEDESTRIANS. THE UPPER FOOTPATH ABOVE THE CHALK CLIFFS, FENCE OFFSET FROM PATH BY 1.0-0.5M AS TERRAIN PERMITS.
- PROPOSED POST AND 3X RAIL FENCE WITH STOCK PROOF MESH 1.2M HIGH LOCATED TO EDGE OF POND WITH LOCKABLE ACCESS GATE 1.5M WIDE FOR MAINTENANCE.
- PROPOSED POST AND RAIL FENCE LOCATED AROUND POND HEADWALLS, 1.2M HIGH, WITH 3 HORIZONTAL RAILS.
- PROPOSED TIMBER KNEERAIL, TYPE TIMBER DIAMOND, 600MM HIGH, BY DEVELOPER WITH STOCK PROOF MESH SECURED BETWEEN GROUND AND TOP RAIL TO PROTECT PEDESTRIANS. AROUND SWALES IN CORNAL POS. WHERE INDICATED.

EXTRACT FROM LANDSCAPE SPECIFICATION REPORT

VALIDATION

The Landscape Architect may inspect the works, without notice, at any point during the project to ensure all soiling and planting specifications are complied with, to the required standards. Any works found to be substandard or at odds to the specification shall be made good, and/or replaced by the contractor at his own expense, unless proof of Landscape Architect substitution or variation approval can be provided.

Refer to ELD drgs HOPK 428/16 - 001 for Key Plan and 002 to 008 for Concept Layouts, ELD Drgs 010 to 016 for Detailed Landscape Proposals, ELD Drg 009 for the Drainage Overlay Layout, Drg 017 for Schedules & Drg 020 for Management Areas. Also refer to the A4, ELD Specification report for planting and maintenance requirements and Landscape managemet Plan.

N.B. These landscape proposals have been cross referenced against DRAINAGE locations only. All other services and utilities to be checked to identify any potential conflicts. Client/engineer to review and advise accordingly.

ALL DIMENSIONS TO BE CHECKED ON SITE. TO BE READ WITH ALL CONTRACT DOCUMENTATION. ANY DISCREPANCIES TO BE REPORTED TO THE CONTRACT ADMINISTRATOR. DO NOT SCALE FROM THIS DRAWING.

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Rev.	Date	Initials	Details
G.	21-03-09.	LW.	Details of planting, fencing and footpaths to all POS areas amended to client comments.
F.	26.01.21	LW.	Phase 3 housing layout amended to accord with new layout (HH Ext Works v25), received 21.01.21. Plots partially detailed as instructed by client.
E.	05-06-20	RE.	Bench types on drg/Key corrected.
D.	21-02-19	RE.	Ingent drainage imported to HH V15, rec 19-01-07.
C.	04-12-18	LW.	Minor amends to accord with latest layout (External Works v15), received 29-11-18. LEAP safety mulch to replace matting.
B.	15-11-18	LW.	Minor amends to accord with latest layout (External Works v14), received 25-10-18. Latest Drainage/lighting drawing added, received 14.11.18.
A.	23-10-18	RE.	Minor amends to accord with latest layout (External Works v13), received 13-10-18. Planting removed from bank plots 222-239. Pond section added.

E·L·D
ELWOOD LANDSCAPE DESIGN
CHARTERED LANDSCAPE ARCHITECTS

Suffolk Office:
The Barn, Cherry Tree Farm, Mendlesham Green, Stowmarket, Suffolk IP14 5RQ.
Tel: 01449 768828 E: team@e-l-d.co.uk

Cambridgeshire Office:
The Nursery, Market Street, Fordham, Cambridgeshire, CB7 5LQ.
Tel: 01638 721066 E: team@e-l-d.co.uk

ISSUED BY ☒ ☐

CLIENT:	PROJECT:
HOPKINS HOMES.	IPSWICH ROAD, NEEDHAM MARKET.

DWG TITLE:
DETAILED LANDSCAPE PROPOSALS (6 OF 9) PHASE 3.

SCALE:	DATE:
1:250 @ A0	23RD MARCH 2017.

DRAWN BY:	CHECKED BY:	DRAWING NO:	REV.
LW.	RE.	HOPK 428/16-015.	G.