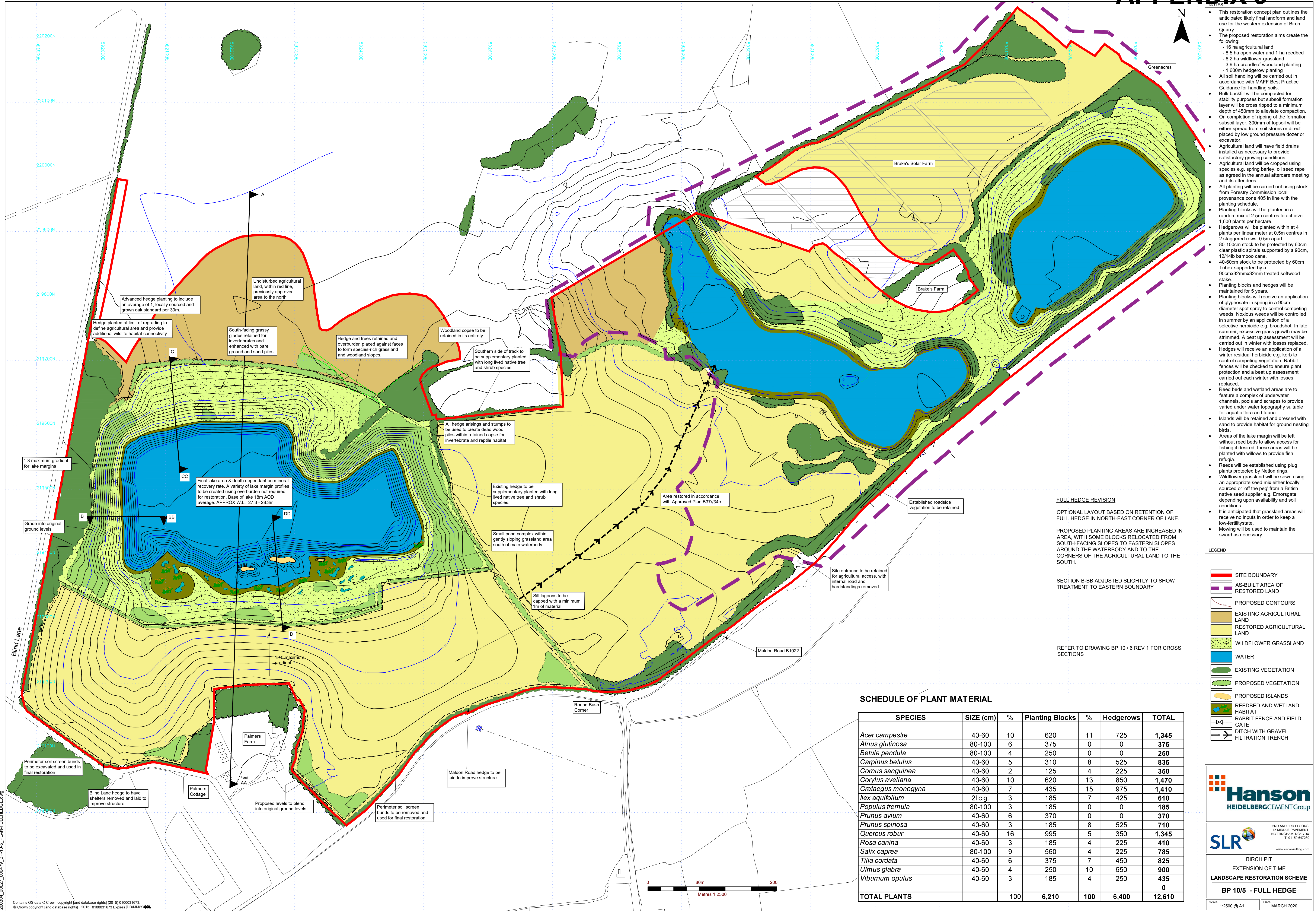


APPENDIX J



- NOTES
- This restoration concept plan outlines the anticipated likely final landform and land use for the western extension of Birch Quarry.
 - The proposed restoration aims create the following:
 - 16 ha agricultural land
 - 8.5 ha open water and 1 ha reedbed
 - 6.2 ha wildflower grassland
 - 3.9 ha broadleaf woodland planting
 - 1.600m hedgerow planting
 - All soil handling will be carried out in accordance with MAFF Best Practice Guidance for handling soils.
 - Bulk backfill will be compacted for stability purposes but subsoil formation layer will be cross ripped to a minimum depth of 450mm to alleviate compaction.
 - On completion of ripping of the formation subsoil layer, 300mm of topsoil will be either spread from soil stores or direct placed by low ground pressure dozer or excavator.
 - Agricultural land will have field drains installed as necessary to provide satisfactory growing conditions.
 - Agricultural land will be cropped using species e.g. spring barley, oil seed rape as agreed in the annual aftercare meeting and its attendees.
 - All planting will be carried out using stock from Forestry Commission local provenance zone 405 in line with the planting schedule.
 - Planting blocks will be planted in a random mix at 2.5m centres to achieve 1,600 plants per hectare.
 - Hedgerows will be planted within at 4 plants per linear meter at 0.5m centres in 2 staggered rows, 0.5m apart.
 - 80-100cm stock to be protected by 60cm clear plastic spirals supported by a 90cm, 12/14lb bamboo cane.
 - 40-50cm stock to be protected by 60cm Tubes supported by a 90cmx32mmx32mm treated softwood stake.
 - Planting blocks and hedges will be maintained for 5 years.
 - Planting blocks will receive an application of glyphosate in spring in a 90cm diameter spot spray to control competing weeds. Noxious weeds will be controlled in summer by an application of a selective herbicide e.g. broadshot. In late summer, excessive grass growth may be trimmed. A beat up assessment will be carried out in winter with losses replaced.
 - Hedges will receive an application of a winter residual herbicide e.g. kerb to control competing vegetation. Rabbit fences will be checked to ensure plant protection and a beat up assessment carried out each winter with losses replaced.
 - Reed beds and wetland areas are to feature a complex of underwater channels, pools and scrapes to provide varied under water topography suitable for aquatic flora and fauna.
 - Islands will be retained and dressed with sand to provide habitat for ground nesting birds.
 - Areas of the lake margin will be left without reed beds to allow access for fishing if desired, these areas will be planted with willows to provide fish refugia.
 - Reeds will be established using plug plants protected by Netlon rings.
 - Wildflower grassland will be sown using an appropriate seed mix either locally sourced or 'off the peg' from a British native seed supplier e.g. Emorsgate depending upon availability and soil conditions.
 - It is anticipated that grassland areas will receive no inputs in order to keep a low-fertility state.
 - Mowing will be used to maintain the sward as necessary.

- LEGEND
- SITE BOUNDARY
 - AS-BUILT AREA OF RESTORED LAND
 - PROPOSED CONTOURS
 - EXISTING AGRICULTURAL LAND
 - RESTORED AGRICULTURAL LAND
 - WILDFLOWER GRASSLAND
 - WATER
 - EXISTING VEGETATION
 - PROPOSED VEGETATION
 - PROPOSED ISLANDS
 - REEDBED AND WETLAND HABITAT
 - RABBIT FENCE AND FIELD GATE
 - DITCH WITH GRAVEL FILTRATION TRENCH

FULL HEDGE REVISION

OPTIONAL LAYOUT BASED ON RETENTION OF FULL HEDGE IN NORTH-EAST CORNER OF LAKE.

PROPOSED PLANTING AREAS ARE INCREASED IN AREA, WITH SOME BLOCKS RELOCATED FROM SOUTH-FACING SLOPES TO EASTERN SLOPES AROUND THE WATERBODY AND TO THE CORNERS OF THE AGRICULTURAL LAND TO THE SOUTH.

SECTION B-BB ADJUSTED SLIGHTLY TO SHOW TREATMENT TO EASTERN BOUNDARY

REFER TO DRAWING BP 10 / 6 REV 1 FOR CROSS SECTIONS

SCHEDULE OF PLANT MATERIAL

SPECIES	SIZE (cm)	%	Planting Blocks	%	Hedgerows	TOTAL
<i>Acer campestre</i>	40-60	10	620	11	725	1,345
<i>Alnus glutinosa</i>	80-100	6	375	0	0	375
<i>Betula pendula</i>	80-100	4	250	0	0	250
<i>Carpinus betulus</i>	40-60	5	310	8	525	835
<i>Cornus sanguinea</i>	40-60	2	125	4	225	350
<i>Corylus avellana</i>	40-60	10	620	13	850	1,470
<i>Crataegus monogyna</i>	40-60	7	435	15	975	1,410
<i>Ilex aquifolium</i>	21 c.g.	3	185	7	425	610
<i>Populus tremula</i>	80-100	3	185	0	0	185
<i>Prunus avium</i>	40-60	6	370	0	0	370
<i>Prunus spinosa</i>	40-60	3	185	8	525	710
<i>Quercus robur</i>	40-60	16	995	5	350	1,345
<i>Rosa canina</i>	40-60	3	185	4	225	410
<i>Salix caprea</i>	80-100	9	560	4	225	785
<i>Tilia cordata</i>	40-60	6	375	7	450	825
<i>Ulmus glabra</i>	40-60	4	250	10	650	900
<i>Viburnum opulus</i>	40-60	3	185	4	250	435
TOTAL PLANTS		100	6,210	100	6,400	12,610