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Listed Grade 1 Refurbishment

Previously badly altered Barn

Left to deteriorate
Restoration to former glory
Conversion to House



Listed Grade 1 Barn to House

- Architects: Borgos Dance & Partners
- Specification: ASWS Brian Murphy
- Neglected barn and site
- Badly rebuilt with wrong materials
- Broken post and beam roof
- Wild flowers and grasses
- Biodiversity to be maintained

Listed Grade I Barn





Altered quality old buildings

- Alterations out of character or poorly constructed
- Determining age of each alteration
- Deciding which age to return it to
- Inappropriate materials by inexperienced designers destroy sound construction

- No services penetrations through roof:
- Underground pipes and flues to isolated plant room
- no stack effect to exploit
- all mechanically assisted

Listed Grade I Barn





- No modern construction
- Demolish modern east wing: pine frame and white brick, concrete plain tiling
- Replace with oak frame, red brick and clay plain tiling

- No change to roof profile/height:
 - Remove roof tiling
 - add 25 mm. thick multilayer reflective foil insulation relay roof tiling
 - equivalent to 150 mm
 Rockwool allegedly





- No modern materials on elevations
- Replace new construction with old
- No change to external appearance
- Insulated internal dry lining
- No changes to elevations
- High performance glazing in existing openings on north and south elevations

- No modern construction
- Demolish modern east wing:
 - pine frame
 - white brick,
 - concrete plain tiling
- Replace with
 - oak frame,
 - red brick
 - clay plain tiling

- Repair broken ridge & settled frame
- Strip roof, dismantle frame, underpin posts, rebuild frame and add insulation and relay roof coverings
- No glazing in opening
- Internal glazing on inner face of wall



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Landscape Waste Minimisation

Landscape waste management Biodiversity Maintenance







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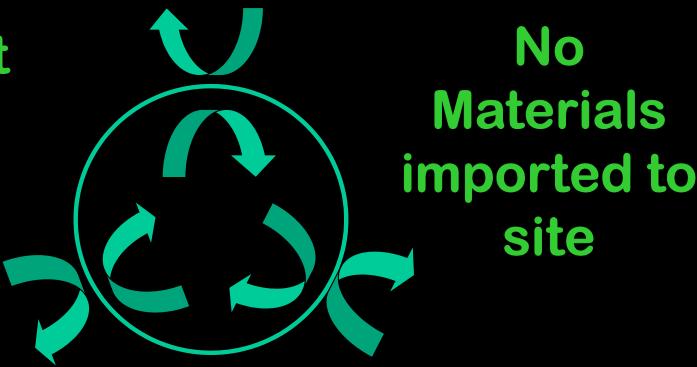
Landscape waste minimisation

Site Autonomy Green Waste Composting

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Site Autonomy

No export from site



Listed Grade I Barn Biodiversity maintenance & Landscape Waste Management



Seeds & Turf

- · Collect seeds, dry & store
- Set-up compost area on site, segregate
- Rake grass, collect leaf-litter, compost
- Cut grass, collect cuttings, compost
- Cut turf, roll and set aside
- Turf scraps add to compost

Top soil and turf

- Strip site topsoil and stockpile
- Lay turf on stock piled topsoil
- Set wild flower seeds on stockpile
- Plant wild flowers on stockpile, to suppress weeds

Subsoil

- Excavate subsoil
- For roads and paths, services and foundations
- Stockpile subsoil

Topsoil & Subsoil Stockpile on site



Site Strip

- Offer excess wild turf in internet exchange sites
- All green waste scraps to compost
- Excavate gravel
- Setaside for later use

Reuse of stockpiled materials

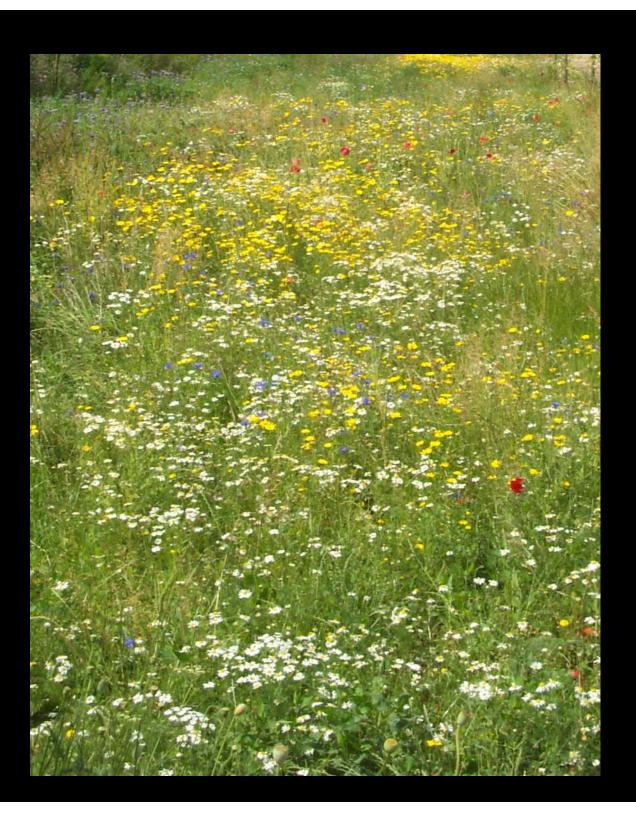
- Reuse Subsoil over site
- Spread subsoil thinly before topsoil
- Reuse composted materials to add to and enrich topsoil
- Reuse turf on site
- Reuse gravel on flat roof as brown roof

Subsoil opportunities

- Spread subsoil thinly over site before relaying topsoil
- Use for landscape contouring
- Arena banking around sports fields
- Sleeping policemen to 'beach' cars
- Acoustic mounds
- Mound traffic islands
- Rammed earth walling
- Mix with compost to make more top soil

Topsoil

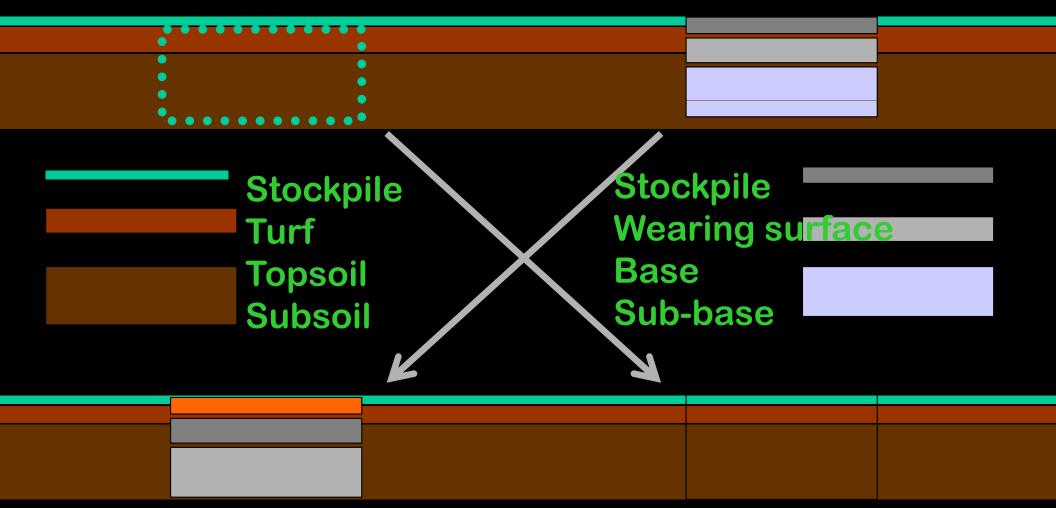
- Relay topsoil as required
- Reusing stockpiled topsoil
- Again collect seeds and plants, rake leaves, cut grass and compost, cut turf from top of stockpiles
- Use matured compost to enrich topsoil
- Relay turf, sow seeds and plants



Meadow Grass & Wild Flowers

Rearranging pathways

Existing path in landscape Proposed path in landscape



Recycle surface, base & sub-base as sub-base & base add new wearing surface

Existing Hard areas

- If being removed consider their use in hardcore for new hard areas
- Exchange locations of hard and soft materials