

DELIVERING SUDS

GORDON HUNT
DRAINAGE OFFICER
OXFORDSHIRE COUNTY COUNCIL

CONVINCING ENGINEERS & DEVELOPERS

- REDUCE LAND TAKE
- SAVINGS – NOT HAVING KERBS
- GULLEYS
- MANHOLES
- PIPE RUNS
- WHERE PIPES REQUIRED – SMALLER SIZES
- WE WILL ADOPT

TYPES	
• SWALES	3 TO 5m WIDE
• SOAKAWAYS	
• KERBLINE DRAINAGE	EFFECTIVE
• BOREHOLES	
• OVERFLOW PONDS	REED BEDS
• PLANTING	REDUCED UPTAKE WITH HIGHER CO ₂
• POROUS PAVEMENT	

MAINTENANCE	
• SWALES	GRASS CUTTING 3 TO 4 TIMES A YEAR
• SOAKAWAYS	AS REQUIRED
• PONDS & REED BEDS	AS REQUIRED
• KERBLINE DRAINAGE	JETTING ONCE EVERY 2 YEARS BY CONNECTING ROOF WATER IN THE BACK OF THE KERB THIS CAN DECREASE THE MAINTENANCE PERIOD
• POROUS PAVEMENT	SUCTION SWEEPING TWICE A YEAR, WEED KILLING ONCE EVERY TWO YEARS (SPRING) NOTE SUCTION SWEEPER AT AN ANGLE NOT HORIZONTAL TO SURFACE TO REDUCE SUCTION

COMMUTED SUMS

- COLLECTED AT ADOPTION INDEXED LINKED
- RINGFENCED KEPT CENTRAL NOT AREA BASED
- BASED ON SIZE OF SITE ½ DAY HIRE MINIMUM

DESIGN CRITERIA

- SOAKAWAY
- SOAKAGE TEST
 - ✦ 2X2X2m
 - ✦ FILL BOTTOM 1m WITH WATER AND TIME
 - ✦ CHECK SOIL TYPE – SILTY SANDY ETC
 - ✦ DECIDE HOW MANY TIMES REPLACEMENT REQUIRED IN 25 YEAR PERIOD
 - ✦ ADD FOR SMALL SETUP AND REPLACEMENT OF PLANTING

POROUS PAVEMENT

- SOAKAGE TEST 2X1X0.5m
 - SOME SITES MAY NEED DEEPER TRENCHES ACROSS ROAD TO SOAK
 - CHECK DAMS MAY BE REQUIRED TO SLOW FLOW DOWN
 - OVERFLOW PIPE - 3m FILTER DRAIN INTO STONE – OVERFLOW INTO EXISTING SYSTEM OR GULLEY

POROUS PAVEMENT - DESIGN

- TWO LAYERS OF GEOTEXTILE REQUIRED - ONE UNDER THE BEDDING STONE THE SECOND ON THE SUB GRADE
- IF A RUNNING LAYER IS USED DURING THE CONSTRUCTION PHASE THE BEST OPTION IS TO HAVE IT REMOVED AND REPLACED WITH STONE.
- OR THE LAYER IS CORED (100mm) ON 750mm GRID THE HOLES THEN FILLED WITH STONE
- AN IMPERMEABLE BARRIER IS USED BETWEEN EXISTING ROAD CONSTRUCTION AND POROUS PAVEMENT
- A BARRIER SHOULD ALSO BE USED WHEN THE POROUS PAVEMENT IS LOCATED CLOSE TO BUILDINGS
- OVERFLOWS SHOULD BE INCORPORATED WHERE POSSIBLE
- AND IN LINE WITH PPS25 AN OVERLAND ROUTE IS PROVIDED