BURTON ROAD

BURTON ROAD

FIELDEN ROAD

NELL LANE

BEWARE : BURIED LIVE ELECTRIC CABLES IN VICINITY OF EXISTING SUB STATION

ON HOLD

REFER TO DRG. B17-930-5401

REFER TO DRG. B17-930-5403

EXISTING FOUL SEWER

PUBLIC PLAZA

BUILDING ENTRANCE

COURTYARD public & play use

COURTYARD no public access

COURTYARD public access

COURTYARD no public access

SERVICE DELIVERY AREA

AMBULANCE TURNAROUND AND WAITING AREA

MOBILE MRI SCANNER

CAR PARK tarmac surface

service road only

FUTURE PARKING PROVISION

AREA FOR FUTURE EXPANSION

BIN STORE

ENTRANCE

EXISTING SWE1 MODIFIED TO SUIT NEW CONNECTIONS CL. 32.270 LL. 29.420

EXISTING PIPELINE REPLACED AND CONNECTED INTO SWE24. EXISTING PIPEWORK REMOVED OR GROUTED.

2 No. 150ø CONNECTIONS FROM KDRB DRAIN RODDING UNIT TO 750ø CONNECTIONS MADE AT 2 AND 10 O'CLOCK

ACO KERBDRAIN

HEAD WALL

INTERCEPTING TRAP

Rows of yew hedges & Tilia cordata 'greenspire'

Existing sub station

Raised plinth & seating

anti vehicular bollards

Low feature wall using existing stone blocks and stone pieces

Link of proposed future road widening

Fagus sylvatica 'perpures' replacement for T1

Native species hedgerow

Acer campestre replacements for T8 & 9

New pedestrian crossing

Existing entrance blocked off

Tilia cordata 'greenspire' replacements for T8

Native species hedgerow

Pedestrian access over drainage trench ramp to car park

Low groundcover planting to visibility splay

North of this line within highways works

Scanner operation area level with surrounding paving

Ramps faced with 200 x 100mm 'Charcon' 'Andover' blocks in charcoal

2m wide gravel access strip to rear of building (vehicle spec suitable for cherry picker access)

150mm pcc edge

500mm strip of loose pea gravel over a flexram geotextile

Native species hedgerow

1.8m high perimeter fence

Lighting column with steel protection barrier.

Road markings showing disabled parking bays

Pedestrian recessed cover with plaza paving

knee rail and gate

450X450mm insitu paving slabs

Drainage swale

Native species shrub mix

## NOTES

1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 5TH EDITION AND ALL RELATED DRAWINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETTING OUT. FINAL COVER LEVELS AND THE SETTING OF FRAMES SHALL SUIT THE SURFACE FINISHES.
3. BELOW GROUND DRAINAGE:
   UNDERGROUND DRAIN PIPES AND FITTINGS FOR FOUL AND SURFACE WATER DRAINAGE SHALL BE AS FOLLOWS:
   (a) UP TO AND INCLUDING 300mm DIAMETER.
   FLEXIBLY JOINTED VITRIFIED CLAYWARE TO BS 65 AND BS EN 295 EXTRA STRENGTH AS "SUPERSLEEVE" OR SIMILAR APPROVED.
   (b) 375mm DIAMETER AND ABOVE.
   FLEXIBLY JOINTED CLASS M CONCRETE TO BS 5911 HEAVYGRADE: AS HEPLOCK SYSTEM OR SIMILAR APPROVED.
4. MINIMUM BEDDING CLASS X SHALL BE USED THROUGHOUT UNLESS SHOWN OTHERWISE.
5. DRAINAGE LAID BENEATH ROADS AND CAR PARKS WITH LESS THAN 1200mm OF COVER SHALL BE ENCASED IN 150mm CONCRETE WITH THE PROVISION FOR MOVEMENT AT JOINTS. ALL OTHER DRAINAGE WITH LESS THAN 600mm COVER SHALL BE SIMILARLY TREATED.
6. DRAINS PASSING THROUGH WALLS AND FOUNDATIONS SHALL BE SLEEVED OR CAST IN. IF CAST IN, A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN 150mm OF THE FACE OF THE WALL ON EITHER SIDE WITH A FURTHER FLEXIBLE JOINT WITHIN 600mm OF THE FIRST. WHERE DRAINS ARE LAID BELOW CONCRETE FLOOR SLABS, THE BEDDING MATERIAL SHALL EXTEND TO THE UNDERSIDE OF THE SLAB.
7. ALL GULLIES, REST BENDS, RODDING EYES, ETC SHALL BE SURROUNDED WITH MASS CONCRETE.
8. BRICK MANHOLES SHALL BE CONSTRUCTED IN 225mm THICK CLASS B ENGINEERING BRICKWORK IN ENGLISH BOND WITH 1:3 CEMENT MORTAR JOINTS OR P.C. CONCRETE RINGS TO BS 5911.
9. THE DRAINAGE SHALL BE INSTALLED AND TESTED STRICTLY IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS, BS EN 752, BS 8000, LOCAL AUTHORITY BYELAWS AND THE BUILDING REGULATIONS PART H.
10. ALL DISUSED DRAINS TO BE GROUTED UP OR REMOVED.
11. UNLESS OTHERWISE STATED ALL DRAINS SHALL BE LAID TO A MINIMUM FALL OF 1:40
12. ALL BRANCHES TO MAIN DRAINS TO BE AT 135°
13. LONG RADIUS BENDS TO BE USED THROUGHOUT. ALL TAPERS AND REDUCERS ALONG THE HORIZONTAL PLANE TO HAVE LEVEL SOFFITS.
14. DRAIN PIPES WITHOUT SIZE INDICATED SHALL BE ø100.
15. SEWER CONNECTIONS SHALL BE TO THE SATISFACTION OF THE LOCAL AUTHORITY.
16. HYDRO-BRAN FLOW CONTROL DETAILS :
    SW523 - 20 l/s @ 1.4m HEAD
    SW524 - 30 l/s @ 1.5m HEAD
    INSTALLATION TO BE AS MANUFACTURERS INSTRUCTIONS.
17. FOR SWALE DETAILS REFER TO DRAWING B17-930-5434 AND 5435 (A3 DRAWINGS)
18. THE BYPASS SEPARATOR SHALL BE A SPEL STORMCEPTOR MODEL C1 213 CLASS 1 WITH INTEGRAL SILT CHAMBER, OR SIMILAR APPROVED. SPEL PRODUCTS, LANCASTER ROAD, SHREWSBURY, SY1 3NQ.
19. STUB PIPE IN SWS25 TO BE 300ø, INVERT LEVEL SET AT 30.338m, LENGTH 600mm AND GRADIENT 1:150. END TO BE CAPPED WITH PROPRIETARY STOPPER.
20. FOR PIPE BEDDING AND TRENCH REINSTATEMENT DETAILS REFER TO DRAWINGS B17-930-5422 AND 5423 (A3 DRAWINGS)
21. FOR MANHOLE DETAILS REFER TO DRAWINGS B17-930-5426, 5427, 5429 AND 5430 (A3 DRAWINGS)
22. FOR DETAILS OF GULLIES AND CHANNELS REFER TO DRAWINGS B17-930-5433 (A3 DRAWING) AND 5442 (A0 DRAWING).
23. FOR MANHOLE SCHEDULE REFER TO DRAWING B17-930-5443
24. ACO KERBDRAIN 480 CAPACITY SYSTEM. 150ø CONNECTIONS TO BE EVERY 20m WITH KD480 RODDING ACCESS UNIT
25. HEADWALL DETAILS TO BE CONFIRMED

### SCHEDULE OF CAR PARK SURFACE WATER DRAINAGE STRUCTURES

| STRUCTURE | MH DIAMETER | USGL (m) | USIL (m) | TYPE | COVER | LENGTH (m) | SLOPE (1:x) | PIPE DIAMETER (mm) | PIPE TYPE | BEDDING | DSMH | DSCL (m) | DSIL (m) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SWALE | 500 | 32.045 | 31.545 | SWALE | N/A | 45 | 320 | 500 CHANNEL | TURF | TURF | HEAD WALL | 31.905 | 31.405 | SUDS ATTENUATION AND INFILTRATION STRUCTURE |
| HEAD WALL | 500 | 31.905 | 31.405 | TBC | N/A | 2 | 2 | 150 | CLAYWARE | CLASS S | SW25 | 32.100 | 30.488 | THROTTLE PIPE |
| SW25 | 1500 | 32.100 | 29.738 | PCC | D400 | 37 | 200 | 900 | PLASTIC | CLASS S | SW24 | 32.100 | 29.553 | DETENTION TANK - 300ø STUB PIPE REQUIRED IN SW25 |
| SW27 | 1500 | 32.425 | 30.550 | PCC | D400 | 60 | 200 | 750 | PLASTIC | CLASS S | SW26 | 32.100 | 30.250 | DETENTION TANK |
| SW26 | 1500 | 32.100 | 30.250 | PCC | D400 | 9 | 150 | 150 | CLAYWARE | CLASS S | SW24 | 32.100 | 30.190 | THROTTLE PIPE |
| SW24 | 1800 | 32.100 | 29.553 | PCC | D400 | 5 | 150 | 300 | CLAYWARE | CLASS S | SWE01 | 32.271 | 29.420 | INVERT LEVELS INCLUDE 100mm FOR SEPARATOR FLOW CONTROL CHAMBER (HYDRO BRAKE) |
| SWE1 | EXISTING | 32.270 | 29.420 | | | | | | | | | | | EXISTING MANHOLE |

NOTE: ALL GROUND LEVELS, SWALE DEPTHS AND SWALE INVERT LEVELS ARE ASSUMED AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION

KEY:
US = UPSTREAM
DS = DOWNSTREAM
GL = FINISHED GROUND LEVEL
IL = INVERT LEVEL
MH = MANHOLE

### KEY LINES AND SYMBOLS

- DENOTES EXISTING SURFACE WATER SEWER
- DENOTES PROPOSED SWALE
- DENOTES PROPOSED FOUL DRAIN
- DENOTES PROPOSED DETENTION TANK
- DENOTES PROPOSED SURFACE DRAIN
- DENOTES EXISTING MANHOLE
- DENOTES FOUL MANHOLE
- DENOTES SURFACE WATER MANHOLE
- DENOTES PUMP CHAMBER
- DENOTES PEDESTRIAN GULLY
- DENOTES ROAD GULLY
- DENOTES INTERNAL MANHOLE
- RAMP BACKDROP
- VERTICAL BACKDROP
- DENOTES PROPOSED HEADWALL
- DENOTES HYDRO-BRAKE FLOW CONTROL IN SWS23 & SWS24 (FLOW CONTROL INSTALLED IN OUTGOING PIPE)
- DENOTES OVERLAND FLOW PATH
- DENOTES PROPOSED GULLY
- DENOTES PROPOSED PROPRIETORY SEPARATOR

### KEY TO ANNOTATION

| | |
|---|---|
| BD | BACKDROP |
| RWP | RAINWATER PIPE |
| RE | RODDING EYE |
| FMH | FOUL MANHOLE |
| SWMH | SURFACE WATER MANHOLE |
| ø XX | DIAMETER |
| WPXX | WASTE VENT PIPE |
| SVPXX | SOIL VENT PIPE |
| HB | HYDRO-BRAKE |
| SP | STUB PIPE |

Use this box for Receipt Stamps

| Mark | Date | Details | By | Chkd |
|---|---|---|---|---|
| H | 24/05/05 | FINAL ISSUE | WAC | PCM |
| G | 05/07/04 | CAR PARK GULLEYS REPOSITIONED | MW | PCM |
| F | 09/03/04 | ISSUED FOR CONSTRUCTION | JC | JRJ |
| E | 28/01/04 | CAR PARK DRAINAGE AMENDED AS CLOUDED | Jared | JRJ |
| D | 05/11/03 | SURFACE WATER DRAINAGE AMENDED | MW | JRJ |
| C | 01/10/03 | FOUL WATER DRAINAGE REDRAWN ISSUED FOR ACCEPTANCE | BR | PCM |
| B | 30/07/03 | STORM WATER DRAINAGE ADDED | GC | PCM |
| A | 25/07/03 | PRELIMINARY ISSUE | WAC | PCM |

REVISIONS

NHS PROCURE 21

Employer:
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Primary Care Trust

Principal Supply Chain Partner
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Project Title:
WITHINGTON DTC.

Key Plan:

Scales: 1:250 for the Original Drawing Size of: A0
Drn By: WAC Chkd By: PCM Passed By: PCM Date: 25/07/03
Drawing Status:
CONSTRUCTION

Drawing Originator:
ARUP
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Drawing Title:
FOUL AND SURFACE WATER SEWER LAYOUT

| Job No: | Drawing No: | Revision: |
|---|---|---|
| 69777-00 | B17-930-5401 | H |

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