REFER TO DRAWING No. 4240241-1201 FOR OFF SITE S104 SEWER

INDICATIVE NORTH

SPEL GREASE SEPARATOR
REF: GS200/3000
CL 385.00
IL IN 383.61
IL OUT 383.56
NOTE: 220mm THICK REINFORCED CONCRETE PROTECTION SLAB, SURROUND AND BASE TO BE INSTALLED AROUND GREASE TRAP. 2 LAYERS OF A393 MESH TO COVER SLAB AND BASE. 1 LAYER OF A393 MESH TO SURROUND

FW PUMP STATION KIOSK WITH CONTROL PANEL AND HIGH LEVEL ALARM.

75mm INTERNAL DIAMETER FOUL RISING MAIN

RESTAURANT FFL 385.20m
REST BEND IL U.N.O 384.65m
ALL INTERNAL RUNS TO BE MAX. 1:40 U.N.O

FW4 MH
1200Ø
CL 385.17
IL IN (100Ø) 384.54
IL OUT (150Ø) 384.49

FW7 MH
450Ø
CL 385.18
IL 384.47

FW8 MH
1200Ø
CL 385.15
IL IN (100Ø) 384.40
IL OUT (150Ø) 384.35

SW 03
600Ø
CL 385.05
IL 384.00

FW3 PIC
450Ø
CL 385.19
IL 384.41

FW5 MH
450Ø
CL 385.19
IL 384.46

FW6 MH
450Ø
CL 385.19
IL 384.46

FW9 MH 1200Ø
CL 385.11
IL IN 383.81
IL OUT 383.53

SW 04
600Ø
CL 385.06
IL 383.91

FW1 PIC
450Ø
CL 385.06
IL 384.38

FW2 PIC
450Ø
CL 385.19
IL 384.54

SW 12
600Ø
CL 385.19
IL 383.49

SW 13
600Ø
CL 385.19
IL 383.60

SW 01
1200Ø
CL 384.95
150Ø IN IL 383.90
225Ø OUT IL 383.82

SW 11
600Ø
CL 384.70
IL 383.57

PROPOSED TANKED PERMEABLE PAVING WITH 350mm THICK SUB BASE AND 400mm WIDE TRENCH EXTENDED DOWN TO COLLECTOR PIPE.

100Ø PERFORATED COLLECTOR PIPE INVERT LEVEL = 383.63

SW 02
1200Ø
CL 384.68
IL 383.13

SW 02A
1200Ø
CL 384.68
IL 383.01

DRIVE THRU

CAR PARK

225Ø PERFORATED COLLECTOR PIPE BENEATH BIO RETENTION STRIP

BIO-RETENTION STRIP

SPEL 330C1/ESR PETROL INTERCEPTOR
250mm THK. RC COVER SLAB AND SURROUND REQUIRED
CL 384.68
IN IL 383.12
OUT IL 383.02

PROPOSED PERMEABLE PAVING SUB BASE TO EXTEND DOWN TO THE TOP OF THE ATTENUATION TANK.

SDS HEAVY DUTY ATTENUATION TANK WITH Ø225mm PERFORATED COLLECTOR PIPE
Cover Level = 384.50m (min.)
Top of Tank = 383.75m
Base of Tank = 383.00m
SIZE 9m x 17m x 0.75m x 95% (VOID RATIO)

SW 06
HYDROBRAKE FLOW CONTROL CHAMBER
DESIGN HEAD = 1.2m
DESIGN FLOW = 5.5 l/s
CHAMBER SIZE = 1200Ø
CL 384.13
IL 382.90

SW 12
600Ø
CL 384.15
IL 383.02

WATER MAIN EXPECTED TO BE OVER 4m DEEP AND IS WELL BELOW THE PROPOSED SURFACE WATER DRAIN.

10m EASEMENT FOR 18" WATERMAIN

Sewers transferred to Welsh Water in 2011

Ø150mm

18" TRUNK WATER MAIN

8" TRUNK WATER MAIN

PROPOSED TANKED PERMEABLE PAVING WITH 350mm THICK SUB BASE AND 450mm WIDE TRENCH EXTENDED DOWN TO COLLECTOR PIPE.

FW10 PRIVATE PUMPING CHAMBER
24000 PRECAST CONCRETE RING PUMP CHAMBER WITH TWIN PUMPS, HIGH LEVEL ALARM AND Ø80mm RISING MAIN. CONTROL PANEL LOCATED WITHIN KIOSK AS SHOWN.
DISCHARGE RATE: 4.0 l/s
COVER LEVEL = 385.30
INVERT LEVEL = 383.44
BASE LEVEL = 381.34

PROPOSED TANKED PERMEABLE PAVING WITH 350mm THICK SUB BASE AND 525mm WIDE TRENCH EXTENDED DOWN TO COLLECTOR PIPE.

SW16 (CCTV Ref.)
CL. 384.87
IL. Unknown
Depth. Unknown

SW 05
1200Ø
CL. 384.24
IL 382.935

Location of Welsh Water sewer to be confirmed

INDICATIVE DIVERSION ROUTE FOR 8" TRUNK WATER MAIN, SEE WELSH WATER DETAILS

Althon Swale Inlet
Headwall - 150 with a 1m length of rocks placed in front to prevent scour.
IL 382.76

BIO-RETENTION AREA (RAIN GARDEN)
CL (MIN.) 383.43m
MAX. WL 383.01m
IL OF ATTENUATION VARIES FROM 382.76m TO 382.70m
IL OF FILTER MEDIUM FROM 382.16 TO 382.10m
AREA 162.00m²

SW 07
600Ø
CL 383.86
IL 382.79

SW 08
HYDROBRAKE FLOW CONTROL CHAMBER
DESIGN HEAD = 1.18m
DESIGN FLOW = 5.5 l/s
CHAMBER SIZE = 1200Ø
CL 383.54
150Ø IL IN 382.68
150Ø IL OUT 382.00

SW 09
600Ø
CL 383.37
IL 381.79

Althon Swale Inlet
Headwall - 150 with a 1m length of rocks placed in front to prevent scour.
IL 382.70

SuDS conveyance feature. Arrows show direction of surface water flows

EXISTING WELSH WATER 8" TRUNK WATER MAIN TO BE DIVERTED OUTSIDE OF THE SITE AS SHOWN.

SW 10
600Ø
CL 382.70
IL 381.52

SW6 (CCTV Ref.)
CL. Unknown
IL. Unknown
Depth. 2.20m

SW8 (CCTV Ref.)
CL. 382.41
IL. 381.11
Depth. 1.30m

PROPOSED BRANCH CONNECTION TO EXISTING HIGHWAY DRAIN.

Dye test from SW6 confirmed downstream sewer connects into SW17

DRAINAGE KEY

- PROPOSED SURFACE WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED SURFACE WATER PPIC CATCHPIT MANHOLE WITH 300mm SUMP
- PROPOSED SURFACE WATER PPIC CATCHPIT MANHOLE WITH 300mm SUMP
- PROPOSED SURFACE WATER PUMP MANHOLE
- OL ACO MONO DRAIN PD100D U.N.O 10.0 DRAINAGE CHANNEL (BLACK)
- OL ACO 305 KERB DRAIN – DRAINAGE KERB WITH ACCESS POINTS/OUTLETS
- LINED IMPERMEABLE HEAVY DUTY CELLULAR STORAGE POLYSTORM R OR SIMILAR APPROVED
- EXTENT OF TANKED PERMEABLE PAVING WITH LINED DRAINAGE SUMP & PERFORATED PIPE
- SPEL ESR TREATMENT UNIT WITH HARD WIRED ALARM TO MANAGER'S OFFICE
- PROPOSED BIO-RETENTION STRIP WITH CARRIER PIPE
- KERB TO ALLOW SURFACE WATER TO DRAIN ONTO FILTER TRENCH
- PROPOSED FOUL WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED BUILDING FOUL WATER DRAINAGE MANHOLE, 1200Ø WITH TRADITIONAL BENCHING
- PROPOSED FOUL WATER PUMP MANHOLE
- TOILET RUNS UNDER BUILDINGS SHOWN BROWN
- PROPOSED GREASE WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED GREASE WATER DRAINAGE INSPECTION CHAMBER
- ALARMED SPEL GREASE TRAP WITH HARD WIRED ALARM TO MANAGER'S OFFICE
- 110Ø DUCTS FOR GREASE TRAP/ CABLES TO INCOMING ELECTRICS CUPBOARD (MUST BE INSTALLED, CONNECTED AND COMMISSIONED BY THE GROUNDWORK CONTRACTOR PRIOR TO PRACTICAL HANDOVER)
- PROPOSED ADOPTABLE FOUL WATER RISING MAIN LATERAL.
- PROPOSED PRIVATE FOUL WATER RISING MAIN LATERAL.
- S EXISTING SURFACE WATER SEWER

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS, DOCUMENTS AND SPECIFICATIONS. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THIS AND ANY OTHER DRAWING SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
2. DO NOT SCALE FROM THIS DRAWING. WORK TO FIGURED DIMENSIONS ONLY.
3. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SPECIFICALLY STATED AS 'FOR CONSTRUCTION' IN THE DRAWING STATUS.
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DRAINAGE NOTES:

1. **ALL DRAINAGE ALARM SYSTEM COVERING SPEL GREASE TRAPS AND TREATMENT UNITS MUST BE INSTALLED, CONNECTED AND COMMISSIONED SPEL PRIOR TO PRACTICAL HANDOVER OF THE STORE TO MCDONALD'S.**
2. ALL DRAINAGE TO BE INSTALLED TO BUILDING REGULATIONS PART H AND/ OR SCOTTISH BUILDING REGULATIONS.
3. ALL DRAINAGE TO BS8582.
4. BUILDING INSPECTOR TO INSPECT ALL FOUL DRAINAGE INSTALLATION

KEY:

- APPLICATION BOUNDARY
- PROPOSED SITE LAYOUT
- TOPOGRAPHICAL SURVEY
- OS MAP
- EXISTING TRUNK WATER MAIN AND EASEMENT
- CRANE PAD LOCATION

Rev.	Description	Date	By	Chkd
C5	18" WATER MAIN POSITION UPDATED TO THE TRACE CARRIED OUT BY CONTRACTOR ON SITE. ALTHON SWALE INLETS AND FW RISING MAIN LOCATIONS UPDATED TO AVOID EASEMENT.	04.08.26	MCR	JC
C4	18" WATERMAIN POSITION UPDATED TO THE TRACE CARRIED OUT BY WELSH WATER. ALTHON SWALE INLETS MOVED OUT OF EASEMENT.	08.07.26	MCR	JC
C3	FW4 MOVED AWAY FROM PARKING BAYS.	03.07.26	MCR	JC
C2	DRAWING UPDATED TO SAB COMMENTS.	02.07.26	MCR	JC
C1	CONSTRUCTION ISSUE	12.06.26	MCR	JC
T1	TENDER ISSUE	27.05.26	MCR	JC
P1	FIRST ISSUE	22.05.26	MCR	JC

Glanville
Survey > Plan > Engineer
Civil Engineering | Highways Engineering | Structural Engineering | Building Surveying | Transport Planning | Geomatics
Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

Client : McDonald's RESTAURANT

Project : McDONALD'S RESTAURANT
HEADS OF VALLEY ROAD, MERTHYR TYDFIL
CF48 2YG (ST2685)

Title : PROPOSED DRAINAGE LAYOUT

Engineer : CDR | Date : MAY 2026
Director : JC | Scale : 1:200 @ A1
Status : CONSTRUCTION ISSUE

Drawing No. 4240241-1200 | Rev C5