DO NOT SCALE

delivery bay

lorry rest

[FFL 78.20]
PFS

Path (um)

GOLF COURSE

tank fill

[FFL 77.10]
DRIVE THRU

PLANTED MARGIN

yard

[FFL 76.40]
150 COVER
PUB RESTAURANT

terrace

play

garden

PUMP STATION

PROPOSED STEPS

1
13
28
25
70
39
55

A5156

Grass

Access Road

Dense Woodland

FILTER DRAIN H
0.5x5.0x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 206m²

FILTER DRAIN E
0.5x7.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 615m²

FILTER DRAIN J
0.5x23.6x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 377m²

FILTER DRAIN F
0.5x30.0x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 419m²

FILTER DRAIN G
0.5x4.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ROOF WATER RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS SOMAKWAY TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
DRAINED AREA 43m²

FILTER DRAIN D
0.5x61.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 912m²

FILTER DRAIN C
0.5x7.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 174m²

FILTER DRAIN A
0.5x16.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ACCESS ROAD RUNOFF, TRENCH TO BE WRAPPED IN IMPERMEABLE GEOMEMBRANE WITH 150MM PERFORATED PROVIDE AT TOP & BASE OF TRENCH.
DRAINED AREA 216m²

FILTER DRAIN B
0.5x4.5x1.1m GRAVEL FILLED FILTER DRAIN FOR STAGE 1 TREATMENT OF ROOF WATER RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS SOMAKWAY TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
DRAINED AREA 75m²

INFILTRATION BASIN C
INFILTRATION BASIN FOR STAGE 1 TREATMENT OF ROOF WATER RUNOFF & STAGE 2 TREATMENT OF ACCESS ROAD RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS ATTENUATION BASIN TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
TOP OF INFILTRATION BASIN LEVEL 74.50m
BASE OF INFILTRATION BASIN LEVEL 73.80m
DRAINED AREA 1180m²

INFILTRATION BASIN D
INFILTRATION BASIN FOR STAGE 2 TREATMENT OF ACCESS ROAD RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS ATTENUATION BASIN TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
TOP OF INFILTRATION BASIN LEVEL 74.80m
BASE OF INFILTRATION BASIN LEVEL 74.00m
DRAINED AREA 1300m²

INFILTRATION BASIN B
INFILTRATION BASIN FOR STAGE 1 TREATMENT OF ROOF WATER RUNOFF & STAGE 2 TREATMENT OF ACCESS ROAD RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS ATTENUATION BASIN TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
TOP OF INFILTRATION BASIN LEVEL 74.10m
BASE OF INFILTRATION BASIN LEVEL 73.80m
DRAINED AREA 1510m²

GEOCELLULAR STORAGE CRATE SOMAKWAY A
4.0x7.0x1.5m GEOCELLULAR STORAGE CRATE SOMAKWAY FOR STAGE 1 TREATMENT OF ROOF WATER RUNOFF PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS SOMAKWAY TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.
DRAINED AREA 616m²
TOP OF SOMAKWAY LEVEL 75.60m
BASE OF SOMAKWAY LEVEL 74.10m

PERMEABLE PAVING TO PROVIDE STAGE 1 TREATMENT OF ROOF RUNOFF, POROUS SUB-BASE LOCATED BENEATH SURFACE LAYER TO PROVIDE STAGE 2 TREATMENT PRIOR TO ALLOWING SURFACE WATER RUNOFF TO INFILTRATE INTO UNDERLYING SOILS. POROUS SUB-BASE TO STORE & ATTENUATE EXCESS SURFACE WATER FLOWS FOR ALL STORM RETURN PERIODS UP TO & INCLUDING A 1 IN 100 YEAR EVENT WITH 30% ALLOWANCE FOR CLIMATE CHANGE.

PROPOSED CLASS 2 FORECOURT SEPARATOR

REFUELING AREA TO BE COVERED & KERB TO PREVENT SURFACE WATER RUNOFF FROM BEING CONTAMINATED. AS FURTHER PRECAUTION BASE OF REFUELING & TANK FILLING AREA TO BE LINED WITH IMPERVIOUS LINER. DRAINAGE CHANNEL CONNECTED TO OIL INTERCEPTOR SYSTEM

PROPOSED 100mm SDR 17 HPPE ADOPTED RISING MAIN

HARDSTANDING

PROPOSED ADOPTED PUMPING STATION COMPOUND

WET WELL (VALVE CHAMBER (INLET))

VALVE CHAMBER

RISING MAIN TO CONNECT TO EXISTING FOUL WATER SEWER IN HOLT ROAD

OUTFALL FROM FILTER DRAINS TO INFILTRATION BASIN.

Sonde pushed from SW04 to SW07
Trace (EoT) estimated depth 3.42m

Sonde pushed from SW03 to End of Trace (EoT) estimated depth 1.42m

DRAINAGE LEGEND

- SURFACE WATER DRAINAGE
- SURFACE WATER FILTER DRAIN
- SURFACE WATER DRAINAGE CHANNEL
- SURFACE WATER INSPECTION CHAMBER
- SURFACE WATER SILT TRAP CHAMBER
- SURFACE WATER TRAPPED ROAD GULLY
- PERMEABLE PAVING
- CONCRETE SEPARATION BAFFLE
- FOUL WATER DRAINAGE
- FOUL WATER RISING MAIN
- FOUL WATER DRAINAGE CHANNEL
- FOUL WATER MANHOLE
- FOUL WATER INSPECTION CHAMBER
- SITE BOUNDARY

MK	REVISION	BY	DATE

DRAWING STATUS
PRELIMINARY

DRAWING TITLE
SITE WIDE DRAINAGE LAYOUT

PROJECT
Project Number 13136

PROPOSED ROADSIDE SERVICES HOLT ROAD WREXHAM

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8 Friday Street
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Drawn	Ch'kd	Scales	Date
G.S.C	G.S.C	1:200@A0	12.05.16

Purpose of Issue
INFORMATION

Drawing Number	Revision
13136/SK105	-

A0