DO NOT SCALE FROM THIS DRAWING. USE GIVEN DIMENSIONS ONLY. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DIMENSIONAL DISCREPANCIES TO BE REPORTED BACK TO HEALEY CONSULTING PRIOR TO PROCEEDING WITH CONSTRUCTION

NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, ENGINEERS, M&E CONSULTANTS AND SPECIALIST MANUFACTURERS INSTRUCTIONS ETC.

ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH BS8301, BS8005 AND THE BUILDING REGULATIONS.

ALL PIPE SURROUNDS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF SEWERS FOR ADOPTION 7TH EDITION.

EXACT LOCATIONS OF FOUL OUTLETS REFER TO ARCHITECTS DRAWINGS IN CONJUNCTION WITH M&E CONSULTANTS DRAWINGS.

EXACT LOCATIONS OF SIPHONIC RWP's WILL BE DEPENDANT UPON SPECIALIST DESIGN BY SIPHONIC SYSTEM MANUFACTURER.

SURFACE WATER DRAINS SHALL COMPRISE EITHER HDPE (TO BS EN 1401-1), OR PCC (TO BS 5911) OR VC (TO BS 65 & BS EN 295)

FOUL WATER DRAINS TO BE VC (TO BS 65 / BS EN 295)

ALL PETROL INTERCEPTOR TANKS TO BE BEDDED, ENCASED, BURIED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS USING GRADE C35 (SULPHATE RESISTING) CONCRETE SURROUNDS AS PER THE MANUFACTURERS RECOMMENDATIONS.

PERTOL INTERCEPTOR TANKS NOTED AS KLARGESTER TO BE EQUAL AND APPROVED.

ROAD GULLY OUTLET INVERT LEVELS TO BE MIN 600mm BELOW COVER LEVEL.

ALL MANHOLE AND INSPECTION CHAMBER COVERS, FRAMES, AND ACO QMAX CHANNEL DRAINS IN HEAVILY TRAFFICKED AREAS ARE TO COMPLY WITH EITHER BS 497: PART 1 – HEAVY DUTY COVERS TO MA60 OR BS EN 124 GRADE D400

ALL FOUL DRAINAGE BRANCHES TO BE MIN 100MM I/D.

ALL S&VP STACKS TO HAVE RODDABLE ACCESS COVERS LOCATED APPROX 150mm ABOVE FINISH FLOOR LEVEL.

ALL CHANNEL DRAINAGE OUTLETS TO BE RODDABLE.

ALL DRAINAGE WITH LESS THAN 1200mm COVER TO SOFFIT OF PIPE TO HAVE 150mm THK CONCRETE ENCASEMENT.

ALL CONCRETE WITHIN GROUND TO BE SULPHATE RESISTING TO THE RECOMMENDATIONS OF THE SITE INVESTIGATION FOR THE PROJECT.

THE CONTRACTOR IS TO CONFIRM THE INVERT LEVELS OF EXISTING DRAINAGE WHICH IS TO BE USED FOR CONNECTION PRIOR TO ANY CONSTRUCTION TAKING PLACE AND TO ALSO HAVE CAMERA SURVEYS UNDERTAKEN TO ESTABLISH CONDITION.

Existing Concrete slab at approx level 114.87m

P-N-9

SSL 115.30m

Existing Concrete slab at approx level 114.72m

SW/MH
CL 114.66
IL 113.40m

SW/MH10
CL 114.52
IL 112.92m

SW/MH11
CL 114.70
IL 112.89m

Klargester NSFA100 Class 1 Full Retention Separator

Inlet Invert IL 112.74m

SW/MH09
CL 114.52
IL 113.20m

Hydrobrake SW/MH15
CL 114.565
IL 112.70m
Flowrate 12.3L/sec

251cu.m Attenuation Tank (10m x 22mw x 0.6m dp) (1 in 100yr Storm + 20% C/C)
IL 112.730m

Invert of inlet pipe IL 111.83m

Invert at pipe outlet IL 112.60m

FW/MH05 Packaged Pump Station CL 115.00m Flow Rate 3L/sec

Rising Main

FW/MH06 onto Extg sewer line
CL 115.00m
IL 112.267m TBC on site

Extg 2250Dia. SW (Contractor to camera survey for condition)

Extg 2250Dia. FW (Contractor to camera survey for condition)

SW/MH22
CL 115.085
IL 113.890m

SW/MH23
CL 114.930
IL 113.800m

Capped connection for future sprinkler pumphouse

SW/MH30
CL 114.804
IL 113.600m

SW/MH31
CL 114.804
IL 112.600m

SW/MH32
CL 115.03
IL 112.510m

Backdrop IL 113.41m

Klargester NSFA175 Class 1 Full Retention Separator

Invert at Inlet IL 112.187m

90cu.m Attenuation Tank, 9m x 9m x 1.20m (1 in 100yr Storm + 20% C/C)
IL 112.100m

SW/MH29
CL 114.804
IL 112.87m

Hydrobrake SW/MH33a
CL 114.98
IL 112.100m
Flowrate 12.6L/sec

353cu.m Flooding to Dock ramp (1 in 100yr Storm + 20% C/C)

SW/MH16
CL 114.99
IL 114.200m

SW/MH17
CL 114.99
IL 113.890m

SW/MH18
CL 114.99
IL 113.600m

SW/MH19
CL 114.99
IL 113.380m

SW/MH20
CL 114.96
IL 113.760m

SW/MH21
CL 114.96
IL 113.460m

Klargester NSBE010 Class 1 Bypass Separator

773cu.m Attenuation Tank, 37m x 17m x 1.20mDp. (1 in 100yr Storm + 20% C/C)
IL 112.650m

FW/MH07
CL 115.25m
IL 112.54m

FW/MH08
CL 115.10m
IL 113.00m

FW/MH09
CL 115.10m
IL 113.083m

FW/MH11
CL 115.21
IL 113.65m

FW/MH12
CL 115.021
IL 114.021m

SW/MH28
CL 114.804
IL 113.600m

SW/MH33
CL 114.98
IL 111.83m

SW/MH34
New Packaged Pump Station Flow Rate 35litres/sec

Outlet pipe Invert IL 114.30m

Extg SW/MH
IL 114.200m

Extg SW/MH (weir)

Condensate

Syphonic RWP 225ø @ 1 in 100 62 L/s

Syphonic RWP 300ø @ 1 in 100 122 L/s

Copped Foul drain connection for future Gatehouse IL 114.25m

Backdrop Invert IL 112.55m

Inlet pipe Invert IL 111.68m

Water drain or Equal and approved

Boosted Water

SUBSTATION

ACO QMAX Slot Drain (Or Equal and Approved)

Falls 1 in 40

The Contractor is to confirm the exact position, line, level, size and condition of all existing sewers where connection is to be made. Any discrepancy with this drawing is to be reported to Healey Consulting PRIOR TO ANY PIPE LAYING.

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2007
DESIGNERS' IDENTIFICATION AND ASSESSMENT OF RISKS WHICH CAN REASONABLY BE FORESEEN, AND AS NOTED ON CONSTRUCTION DRAWINGS.
GENERAL BUILDING OPERATIONS deemed to be hazardous with LOW RISK attached, except where stated otherwise.
Refer to individual notes applying to specific operations with HIGH RISK attached.

CDM RISK ASSESMENTS:

1. There are no abnormal risks associated with this project.
2. The Preliminary notes issued for the Site Investigation has revealed Asbestos and Hydrocarbon contamination.
   All operatives, especially ground workers should be made aware of this and should wear the appropriate P.P.E.
   Washing/welfare facilities should be provided.
3. The Preliminary notes issued for the Site Investigation has revealed high levels of ground bourne gas.
   Operatives should be aware of this and should be especially carefull in confined spaces.
   Wear appropriate P.P.E.
4. The Preliminary notes issued for the Site Investigation has indicated the presence of varying depths of made ground and therefore the possibility that excavations over 1.00 meter deep are likely to collapse if left open for any significant length of time.
   Use trench sheeting or other approved shoring methods.
5. Groundwater / Water strike have been encountered at various depths from 1.0m to depth. Note that these might be perched water.
   The requirement for pumping and trench supports are likely.

This Drawing should be read in conjunction with Drawing nos. D002, D003 and D004.

RECORD COPY
THIS DRAWING USED FOR CONSTRUCTION INCORPORATING AMENDMENTS AS KNOWN AMENDMENTS ARE LISTED IN THE REVISION BOX

REV	DATE	BY	DETAILS OF REVISION
I	18.02.16	J.H	RECORD COPY
H	24.09.15	P.L	Revised invert levels and gradient for FW/MO7 to FW/MH12
G	24.09.15	P.L	Relocate FW/MH09 to avoid electrical services
F	21.07.15	P.L	Revised outlet pipe size for Hydrobrake MH.
E	09.07.15	M.B.	MH cover levels in car park. Drain from sprinkler pumphouse.
D	24.06.15	M.B.	Drainage revised to suit Fullflow siphonic layout
C	02.06.15	P.L	Revised to suit latest Arch's plan and added manhole cover levels/references
B	20.05.15	P.L	Revised FTL, SW's & FW's invert levels/pipe sizes and moved Attenuation Tank
A	08.11.14	M.B.	FW connection to future gatehouse

ARCHITECT / CLIENT
HEREF HEYWOOD PARK PROPERTY UNIT TRUST

PROJECT
HEYWOOD DISTRIBUTION PARK
PROPOSED INDUSTRIAL UNITS

PROJECT NO. 14311
DRAWING NO. D002
REVISION I
DRAWN BY M.B.
DATE 25.10.14
SCALE 1:250

TITLE
SITE DRAINAGE LAYOUT

SHEET 2 of 2

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HEALEY consulting
structural engineering consultants

A0 size drawing sheet (1168mm x 807mm) scale is approx. double at A2 size