

Refer to Craddys drawing No. 12243-0060 for drainage diversions layout

Klargester NSFA100 full retention interceptor/separator (as per tender) drained area capacity = 5,560m<sup>3</sup>, drained area (including office/welfare roof and food & bale store roof) = 5,470m<sup>2</sup>. Vent location as shown (TBC). Alarm to be installed at a suitable location within the baler shed.

9000l leachate storage tank, Ø1.422m x 6.290m length. Incoming invert level 35.200. Alarm to be installed at a suitable location within the baler shed.

Foul drainage channel - ACO Qmax 150. Drainage channel railing to be F900 ductile iron Q-guard.

ACO Qmax outlet chamber CL 38.500 IL 37.600

ACO Qmax outlet chamber CL 38.770 IL 37.870

Foul drainage channel within food and bale store - ACO Qmax 150. Drainage channel railing to be F900 ductile iron Q-guard.

ACO Qmax outlet chamber CL 38.110 IL 37.210

Ø175mm Orifice plate to outlet, proposed maximum discharge rates:  
 - 1 in 1yr+40% : 35.4L/s (33% betterment)  
 - 1 in 30yr+40% : 56.3L/s (43% betterment)  
 - 1 in 100yr+40% : 66.0L/s (41% betterment)

Geocellular storage module attenuation tank - SDS Rigofill, with 4 No. Man access turrets. Tank to be wrapped with suitable impermeable membrane and vented to soft landscaping area. To provide min. 205.5m<sup>3</sup> surface water attenuation storage volume @ 95% porosity - 10.4 x 16.0 x 1.3m depth. Invert level of tank 35.900.

EXISTING SERVICES: SHADED AREA DENOTES 4m EASEMENT TO EXISTING MEDIUM PRESSURE GAS MAIN. PROPOSED DRAIN BENEATH. HAND DIGGING WILL BE REQUIRED

EXISTING SERVICES: SHADED AREA DENOTES 12m EASEMENT TO EXISTING HIGH PRESSURE GAS MAIN. PROPOSED DRAIN PASSES APPROX. 50mm OVER COVER SLAB. HAND DIGGING WILL BE REQUIRED

**"AS BUILT" DRAWINGS - REV AsB**  
 THIS DRAWING REPRESENTS FINAL CONSTRUCTION ISSUE INFORMATION. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS INCLUDING SPECIALIST SUBCONTRACTORS DRAWINGS

Package wastewater treatment plant (PWWTP) to BS EN 12566 with integrated pump to suit 16 persons:  
 - open industrial (without canteen)  
 - 60lppd flow, 25gppd BOD, 5 ammonia  
 - 0.96m<sup>3</sup>/day flow, 0.4kg/day BOD  
 - Klargester BioDisc BB  
 - with optional integrated pump (50mm MDPE rising main)  
 - 1100mm incoming invert depth  
 - CL 39.100 IL 38.000

KEY	
	Site boundary
	Existing surface water drain
	Existing drainage to be abandoned
	Proposed diversion drain (see drawing -0060)
	Proposed foul water drain
	Proposed clean surface water drain
	Proposed contaminated surface water drain
	Proposed rising main
	Proposed linear drainage channel with access
	Existing manhole
	Proposed PCC Type B manhole
	Proposed PPIC Type E inspection chamber
	Proposed geocellular attenuation tank
	Proposed road gully

C D M : SIGNIFICANT HAZARDS	
THE FOLLOWING HEALTH AND SAFETY HAZARDS ARE IDENTIFIED BY THE DESIGNER AS ABNORMAL IN PURSUANCE OF THE CURRENT CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.	
<b>RISKS DURING CONSTRUCTION:</b>	
<ul style="list-style-type: none"> <li>DEEP EXCAVATIONS - Deep excavations should have adequate propping and shoring to ensure stability. Personnel working in excavations should be sufficiently protected from falling objects.</li> <li>EXISTING SERVICES - Further to any existing services information available, contractor to undertake further surveys to locate any existing services prior to excavations. Refer to drawing No. B2005: UGX by Lewis Brown for existing information.</li> <li>LIVE WATERCOURSE: The existing watercourse serves the area upstream of the existing site and is currently live and operatives must be aware of this during the construction of the headwall. Works on and around the watercourse to be carried out during dry and low level periods.</li> </ul>	
<b>OPERATION / MAINTENANCE RISKS:</b>	
<ul style="list-style-type: none"> <li>MANHOLES/GULLIES/SILT TRAPS: Inspect manholes &amp; silt traps for build up of silt and general debris (once a year, preferably in the spring after leaf fall in the autumn). If silt/debris is building up then clean with jetting / gully sucker &amp; inspect pipe.</li> <li>INTERCEPTOR: Refer to manufacturers recommendations.</li> <li>LEACHATE STORAGE TANK: Refer to manufacturers recommendations.</li> <li>PWWTP &amp; PUMP: Refer to manufacturers recommendations.</li> </ul>	
<b>RISKS DURING DEMOLITION / DECOMMISSIONING / DISMANTLING / ALTERATIONS:</b>	
<ul style="list-style-type: none"> <li>No abnormal risks have been identified relating to this design element.</li> </ul>	
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY COMPETENT & ADEQUATELY RESOURCED CONTRACTOR(S) WORKING TO SAFE SYSTEMS OF WORK.	

**DRAINAGE NOTES**  
 DRAINAGE STANDARDS: All private drainage works shall be in accordance with Building Regulations Document Part H. All adoptable drainage works shall be in accordance with Sewerage Sector Guidance Appendix C : Design and Construction Guidance and statutory undertaker's requirements.  
 MANHOLE COVER LEVELS: All manhole & inspection chamber cover levels are to be adjusted to suit the proposed finished surface levels. If the cover levels proposed in the drainage schedules vary from proposed surface level by more than 100mm, Contractor to notify Craddys.  
 LAYING DRAINAGE: It is recommended that all drains be laid starting from the downstream connection to the existing network and working upstream to and through the new development.

DRAINAGE PIPE SIZES: All foul water drains to be 100mm diameter unless noted otherwise. All surface water drains to be 150mm U.N.O.  
 ABOVE GROUND DRAINAGE: RWP/SVP drainage positions shown on Craddys drawings, upon which the below ground drainage is designed, are based upon the positions provided to us by the modular building supplier and these are to be set out on the modular building supplier's floor plans unless agreed otherwise. If above ground drainage positions change then Craddys will need to be informed of these changes in writing and the changes in position clearly noted or highlighted on a drawing, i.e. using revision clouds, with relevant CAD files provided to Craddys below ground drainage drawings to be updated. Note that should these changes occur following Craddys issue of Construction status drawings then there is a risk of the contractor undertaking abortive works.

IF YOU HAVE A QUERY CALL US SCALING FROM THIS DRAWING OR OBTAINING DIMENSIONS ELECTRONICALLY MAY NOT PROVIDE ACCURATE INFORMATION AND SHOULD BE AVOIDED. WORK ONLY FROM FIGURED DIMENSIONS.			
AsB	AS BUILT ISSUE	JHJ	27.04.22
E	FOUL UPDATED AROUND LEACHATE TANK	RJH	27.04.21
F	LOADING AREA QMAX UPDATED TO SUIT LEVELS	RJH	14.04.21
D	CONSTRUCTION ISSUE - MINOR AMENDMENTS TO WELFARE FOUL AND WEIGHBRIDGE DRAINS	RJH	09.04.21
C	ATTENUATION TANK NOTATION UPDATED	RJH	10.03.21
B	LOCKDOWN VALVE ADDED TO Sw.20, DISCHARGE RATES NOTED	RJH	08.03.21
A	INFORMATION	WAH	03.03.21
REV	REVISION DETAILS	BY	DATE

CRADDYS	
Consulting Civil and Structural Engineers	
www.craddys.co.uk	
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CLIENT	BRITANNIA CONSTRUCTION
STATUS	AS BUILT

PROJECT TITLE	
SUEZ WASTE TRANSFER STATION WALFORD CROSS TAUNTON	
DRAWING TITLE	
PROPOSED DRAINAGE LAYOUT	
SCALE AT A1	1:250
DRG SIZE	A1
DRAWN	WAH
CHECKED	RJH
APPROVED	CSD
JOB NO.	12243
DRAWING NUMBER	12243-0050
REV	AsB