

100mm at A1

HEALTH & SAFETY RISKS

IN ADDITION TO THE STANDARD HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING RESIDUAL HEALTH AND SAFETY RISKS

- BURIED SERVICES BURIED SERVICES DAMAGE MAY RESULT IN ELECTROCUTION, GAS LEAK, EXPLOSION, WATER LEAK, OBTAIN ACCURATE LOCATIONS OF UNDERGROUND SERVICES PRIOR TO
- CR 02 UNKNOWN SERVICES UNMAPPED CABLES SHOULD BE TREATED AS
- CR 03 UXO REFER TO RISK ASSESSMENT IN GROUND INVESTIGATION.
- WORK TO HALT PENDING SPECIALIST REMOVAL. CR 04 DEEP EXCAVATIONS - RISK OF TRENCH COLLAPSE. LIMIT DEPTH OF
- CR 05 UNTREATED/POLLUTED WATER CAN CAUSE ILL HEALTH THROGUH WATERBORNE DISEASES. STAFF WORKING ON OR NEAR SEWERS MUST BE AWARE OF RISK.
- CR 06 GROUND AND GROUNDWATER CONDITIONS. RISK OF CONTAMINATION. CONSTRUCTION RUNOFF TO BE MANAGED IN ACCORDANCE WITH CONTRACTOR PLAN.

MR 01 DRAINAGE TO BE MAINTAINED IN ACCORDANCE WITH ALAN WOOD MAINTENANCE PLAN AND MANUFACTURER MAINTENANCE REQUIREMENTS.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN THE CDM REGULATIONS.

- DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING
- BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015
- NHBC STANDARDS CHAPTER 5.3, 2017 EDITION
- 2. ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY
- 3. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER
- 4. ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 1610:2015.
- 5. V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295-1:2013,-2:2013,-3:2012 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
- 6. LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
- 7. PVC-U DENOTES UNPLASTISED POLYVINYL CHLORIDE . PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN1401, BS EN13476-2 AND BS4660:1989/2000 RESPECTIVELY AND BE KITEMARKED.
- 8. PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 1917:2002 AND BS 5911-3:2010,-4:2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR
- 9. INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-1:2011.
- 10. POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13598-1:2010,-2:2016 AND BS 7158:2001 AND TO BE
- 11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015, MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN FOOTWAYS; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BADGED "FW" OR "SW" AS APPROPRIATE. MANHOLE COVER SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER
- 12. POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN FOOTWAYS; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.
- 13. ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. TYPE D400:450 GRATE AND FRAME. MINIMUM AREA OF WATERWAY TO BE 1010cm².
- 14. DRAINAGE CHANNELS TO BE ACO M100D 0.0 MULTIDRAIN CHANNEL (O.S.A) FITTED WITH SLOTTED DUCTILE IRON GRATING. GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 6:2015 AND BE KITEMARKED. LOAD CLASS A15 GRATES TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 GRATES TO BE USED IN FOOTWAYS; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.
- 15. CLASS Z BEDDING DETAIL SHALL BE PROVIDED:
- WHERE COVER TO PIPE BARREL IS: i) <1.2m IN VEHICULAR TRAFFICKED AREAS
- ii) < 0.9m IN AREAS INACCESSIBLE TO VEHICLES. AT ALL ROAD GULLY, RWP, SVP AND DRAINAGE CHANNEL
- AREAS OF DEEP ROOTING VEGETATION.
- WHERE TWO PIPES CROSS WITH A CLEAR GAP OF <300mm. CLASS Z SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
- 16. CLASS 'Y' BEDDING DETAIL TO BE PROVIDED TO ALL PIPEWORK BENEATH BUILDING FOOTPRINT WITH ROCKER PIPES PROVIDED AS CLOSE AS POSSIBLE TO BUILDING STRUCTURE WHERE PIPE
- 17. NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm

THE VERSIONS OF BRITISH STANDARDS AND OTHER PUBLICATIONS LISTED ABOVE ARE CURRENT AT THE TIME OF THE DRAWING ISSUE. HOWEVER IF THESE HAVE BEEN REVISED OR UPDATED THEN THE NEWER VERSIONS SHOULD BE USED. ANY DISCREPANCIES SHOULD BE NOTIFIED TO AWP IMMEDIATELY.

100% STAGE 4 SUBMISSION

0 2 4 6 8 10 12 14 16 18 20m

NOTES:

INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.

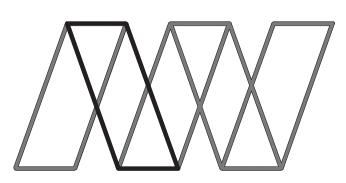
1. THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.

- P. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS
 - AND ARCHITECTS DRAWINGS. DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY, SUCH MATERIAL REMAINING THE THE PROPERTY OF THE CONTRACTOR ON COMPLETION, AND FOR ENSURING THAT THE WORKS AND ANY ADJACENT PROPERTIES

ARE SAFE IN THE TEMPORARY CONDITION.						
JOB NO: 49043 DRAWING REFERENCE TABLE						
THIS DRAWING TO BE READ IN CONJUNCTION						
WITH THE DRAWINGS LISTED BELOW						
	DRAWING REFERENCE					
- MANHOLE SCHEDULE	- KDW-AWP-ZZ-XX-DR-C-3301					
- DRAINAGE SECTIONS SHEET 1	- KDWAWP-ZZ-XX-DR-C-3600					
- DRAINAGE SECTIONS SHEET 2	- KDWAWP-ZZ-XX-DR-C-3601					
- DRAINAGE DETAILS	- KDWAWP-ZZ-XX-DR-C-3602					
- SITE HAZARD DRAWING	- KDWAWP-ZZ-XX-DR-C-4001					
- TOPOGRAPHICAL SURVEY AND SERVICES	- KDWAWP-ZZ-XX-DR-C-4300					
- ENABLING WORKS & DIVERSIONS	- KDWAWP-ZZ-XX-DR-C-4301					
- CUT & FILL	- KDWAWP-ZZ-XX-DR-C-4302					
- CONSTRUCTION SPECIFICATIONS &	- KDWAWP-ZZ-XX-DR-C-4303					
KERBING						
DRAWINGS BY OTHERS	DRAWING REFERENCE					
- FLOOD RISK ASSESSMENT BY CUNDALL	- Z9A8416Y20-CDL-XX-XX-RP-C-					
	010201					
- TOPOGRAPHICAL/UTILITY/DRAINAGE	- 39373					
CONVET DI MIDEMAD CONVET ETD						
- PROPOSED SITE 1 LANDSCAPE PLAN BY	- Z9A8416Y20-HLM-10-00-DR-L-					
	000103					
	JOB NO: 49043 DRAWING RE THIS DRAWING TO BE READ II WITH THE DRAWINGS LIS ALAN WOOD & PARTNERS - MANHOLE SCHEDULE - DRAINAGE SECTIONS SHEET 1 - DRAINAGE SECTIONS SHEET 2 - DRAINAGE DETAILS - SITE HAZARD DRAWING - TOPOGRAPHICAL SURVEY AND SERVICES - ENABLING WORKS & DIVERSIONS - CUT & FILL - CONSTRUCTION SPECIFICATIONS & KERBING					

	DEVELOPMENT BOUNDARY
000000	PROPOSED AGGREGATE SURROUND
	PROPOSED CONCRETE TANK
	PROPOSED RAINWATER HARVESTING TANK
00 00	PROPOSED DIVERTED SERVICE
- w — w — w —	PROPOSED DIVERTED WATER PIPE
	PROPOSED SURFACE WATER SEWER
	PROPOSED SURFACE WATER CHAMBER
	PROPOSED SURFACE WATER CHANNEL DRA
•	PROPOSED RAINWATER PIPE CONNECTION
	CHANNEL DRAIN/DISCHARGE TO GROUND
Φ.	PROPOSED RAINWATER PIPE
	PROPOSED FOUL WATER SEWER
	PROPOSED FOUL WATER CHAMBER
•	PROPOSED SOIL VENT PIPE
\boxtimes	PROPOSED FLOOR GULLY
	5m INFILTRATION CLEARANCE ZONE

9	FILTER TRENCH DETAILS	20.11.23	DC	DC	JAG
-8	RAINWATER HARVESTING TANK RELOCATED	20.11.23	DC	DC	JAG
27	DRAINAGE UPDATE	16.11.23	DC	DC	JAG
P6	LAYOUT AMENDMENT	19.10.23	DC	DC	JAG
25	DRAINAGE PHILOSOPHY AMENDED	15.09.23	DC	DC	JAG
24	100% STAGE 4 SUBMISSION	12.08.23	DC	DC	JAG
-3	SVP LOCATIONS & FOUNDATIONS ADDED	06.07.23	HD	DC	JAG
2	DRAINAGE REVISED	19.06.23	DC	JAG	JAG
21	FIRST ISSUE	12.06.23	DC	JAG	JAG
₹ev	Description	Date	Ву	Chk	Арр



Alan Wood & Partners

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	PROPOSED BARRACKS AT KENDREW,
	OAKHAM, LE15 7AG

ESS MODULAR

DRAINAGE LAYOUT

	Role:	CIVIL ENG	INEER						
	Drawing Status:	FOR APPROVAL			Suitability Code:	S4			
	Job. no.	49043	Scale@ A1:	1:200)		Rev.	Р9	
		Project Originato	or Volume	Level	Туре	Role	Number	r	

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