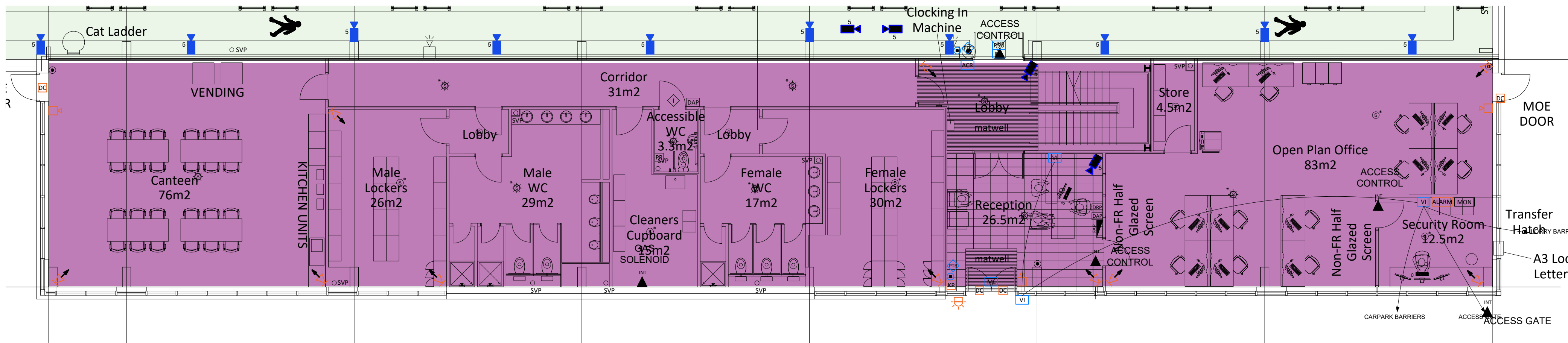
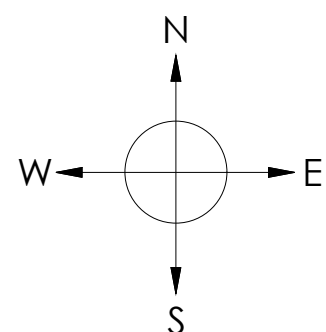


OFFICE MEZZANINE FLOOR LAYOUT  
1:100



OFFICE GROUND FLOOR LAYOUT  
1:100



NOTES	
DRAWING IS A SITE SCHEMATIC	
ANY ANOMALIES ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF OLIVE COMPLIANCE	
LEGEND	
LEGEND - ALARM STRATEGY	LEGEND - SECURITY STRATEGY
Smoke Detector	Access Control Reader
Smoke Detector/Sounder	Access Control Magnetic Lock
Heat Detector	Access Control Exit Button
Heat Detector/Sounder	Access Control Emergency Break Glass
Smoke/Sounder/VAD	Access Control Power Supply Unit
Heat/Sounder/VAD	Video Intercom
Hydrogen detector	Security System Door Contact
Manual Call Point	Security System Key Pad
Alarm Sounder	Security System PIR Sensor
Sounder/Strobe	Security System internal Siren with Strobe
VAD	Security System Power Supply Unit
Fire Alarm Panel	Security System Alarm Panel
Sounder/VAD	Security System External Bell Box
Power Supply Unit	Indoor CCTV Camera IP 2Mpix (Ultra Wide)
Fire Alarm Interface	Indoor CCTV Camera IP Mpix
Void Detection	Indoor CCTV Camera Mini Dome Fixed IP Mpix
Remote Indicator	Outdoor CCTV Camera Fixed IP Mpix
Beam Transmitter/Receiver	Dome 360 Camera
Beam Reflector	Outdoor Speed Dome Automatic Trace IP Mpix
Isolation Unit	CCTV Monitor
Disabled Alarm Over Door Indicator	CCTV NVR Recorder
Disabled Alarm Pull Cord	CCTV UPS
Disabled Alarm Push to Reset	
Disabled Alarm Panel	
Disabled Refuge Panel	
Disabled Refuge Communication point	
Aspirating Panel	

LEGEND - SPRINKLER STRATEGY	
<b>SPRINKLER STRATEGY- ENERGY CENTRE</b> MAIN ROOF - PROVIDE A SINGLE LEVEL OF EXPOSED WET PIPE SPRINKLER PROTECTION THROUGHOUT THE AREA. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- PROCESS AREA (PENDENT K300 @ 2.8 BAR 10 HEADS OPERATING) - FMDS 3.26 TABLE 3, MAXIMUM CEILING HEIGHT 18M, UTILISING FM APPROVED K300 SPRINKLERS - INCORPORATING 950L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. LOW PILED STORAGE - TREAT STORAGE OF PLASTIC COMMODITIES UP TO 1.6 M HIGH. PROVIDE A SINGLE LEVEL OF EXPOSED SPRINKLER PROTECTION MATCHING DENSITY OF SYSTEM ABOVE TO SERVICES, DUCTWORK AND PLANT >1200MM WIDE, ETC. ALLOW FOR 100% HEADS TO PROTECT UNDERSIDE OF MEZZANINES.	<b>SPRINKLER STRATEGY-BELOW MEZZANINE</b> MEZZANINE PLATFORM - PROVIDE A SINGLE LEVEL OF EXPOSED WET PIPE SPRINKLER PROTECTION TO THE UNDERSIDE OF THE MEZZANINE. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- MEZZANINE STORAGE (UPRIGHT K242 @ 1.5 BAR 12 HEADS OPERATING) - FMDS 8.8 TABLE 5, MAXIMUM CEILING HEIGHT 7.3M, UTILISING FM APPROVED K240 SPRINKLERS - INCORPORATING 950L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. PROVIDE A SINGLE LEVEL OF EXPOSED SPRINKLER PROTECTION MATCHING DENSITY OF SYSTEM ABOVE TO SERVICES, DUCTWORK AND PLANT >600MM WIDE, ETC.
<b>SPRINKLER STRATEGY-WAREHOUSE RACKED AREAS</b> MAIN ROOF - PROVIDE A SINGLE LEVEL OF EXPOSED WET PIPE SPRINKLER PROTECTION THROUGHOUT THE WAREHOUSE AREA. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- ROOF STORAGE (PENDENT K300 @ 1.4 BAR 10 HEADS OPERATING) - FMDS 8.8 TABLE 10, MAXIMUM CEILING HEIGHT 7.5M, UTILISING FM APPROVED K300 SPRINKLERS @ 1.4 BAR - INCORPORATING 950L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. RACKING - PROVIDE A SINGLE LEVEL OR AT EACH LEVEL AS REQUIRED OF EXPOSED WET PIPE SPRINKLER PROTECTION THROUGHOUT THE RACKING AT A MAXIMUM 9M FROM THE FLOOR LEVEL. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- RACK (PENDENT K320 @ 2.1 BAR 6 HEADS OPERATING) - FMDS 8.8 TABLE 2, MAXIMUM CEILING HEIGHT 28M - PROVIDE A SINGLE LEVEL OF EXPOSED SPRINKLER PROTECTION TO THE PLANT AREAS OF THE FACILITY. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- BIN WASH AREA (HC3) DESIGN DENSITY - WET - 2.0 (MMIN OVER 28M) - FMDS 3.26 TABLE 2, UTILISING FM APPROVED K160 SPRINKLERS - INCORPORATING 1800L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. MAXIMUM HEIGHT OF THIS AREA IS DEEMED TO BE 9M (NOTE THIS IS LOCATED UNDER THE MEZZANINE, SO CONSIDERATION SHALL BE GIVEN TO THE ABOVE REQUIREMENTS).	<b>SPRINKLER STRATEGY- OFFICE AND WELFARE AREAS</b> OFFICES - PROVIDE A DUAL LEVEL OF CONCEALED WET PIPE SPRINKLER PROTECTION TO THE 2 STOREY MAIN OFFICES INCLUSIVE OF CEILING VOIRS. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- OFFICES ETC. (HC1) DESIGN DENSITY - WET - 4.1 (MMIN OVER 18M) - FMDS 3.26 TABLE 2, UTILISING FM APPROVED K80 SPRINKLERS. <b>INTERNAL BIN WASH AREA</b> INTERNAL BIN WASH AREA - PROVIDE A SINGLE LEVEL OF EXPOSED WET PIPE SPRINKLER PROTECTION TO THE PLANT AREAS OF THE FACILITY. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- BIN WASH AREA (HC3) DESIGN DENSITY - WET - 2.0 (MMIN OVER 28M) - FMDS 3.26 TABLE 2, UTILISING FM APPROVED K160 SPRINKLERS - INCORPORATING 1800L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. MAXIMUM HEIGHT OF THIS AREA IS DEEMED TO BE 9M (NOTE THIS IS LOCATED UNDER THE MEZZANINE, SO CONSIDERATION SHALL BE GIVEN TO THE ABOVE REQUIREMENTS).
<b>SPRINKLER STRATEGY-WAREHOUSE NON RACKED</b> ROOF AREA - PROVIDE A SINGLE LEVEL OF EXPOSED WET PIPE SPRINKLER PROTECTION TO THE AREAS OF THE FACILITY. THE SPRINKLER DESIGN SHALL BE BASED UPON THE FOLLOWING:- ROOF AREA (HC3) DESIGN DENSITY - WET - 2.0 (MMIN OVER 28M) - FMDS 3.26 TABLE 2, UTILISING FM APPROVED K160 SPRINKLERS - INCORPORATING 1800L/MIN HOSE STREAM ALLOWANCE FOR 60 MINUTE DURATION. MAXIMUM HEIGHT OF THIS AREA IS DEEMED TO BE 14M.	<b>CLEAN BIN STORAGE AREA AREA</b> AS MAIN WAREHOUSE ROOF. NOTE THIS HAS A LOWER CEILING HEIGHT. <b>SCADA AND COMMS ROOM</b> PROVIDE FM200 GAS SUPPRESSION.

SITE	
FORNAX ENVIRONMENTAL SOLUTIONS LIMITED	
MERCHANT PARK, 1 MILLENNIUM WAY, ATCLIFFE BUSINESS PARK	
DL5 6UG	
PROJECT	
EA Permit Application	
DRAWING TITLE	
FIRE DETECTION AND PREVENTION ARRANGEMENTS	
OFFICE GF LEVEL AND MEZZANINE LEVEL	
DRAWING NUMBER	REVISION
006B	0
SCALE	DATE
1:100 @ A1 / 1:200 @ A3	29.08.23