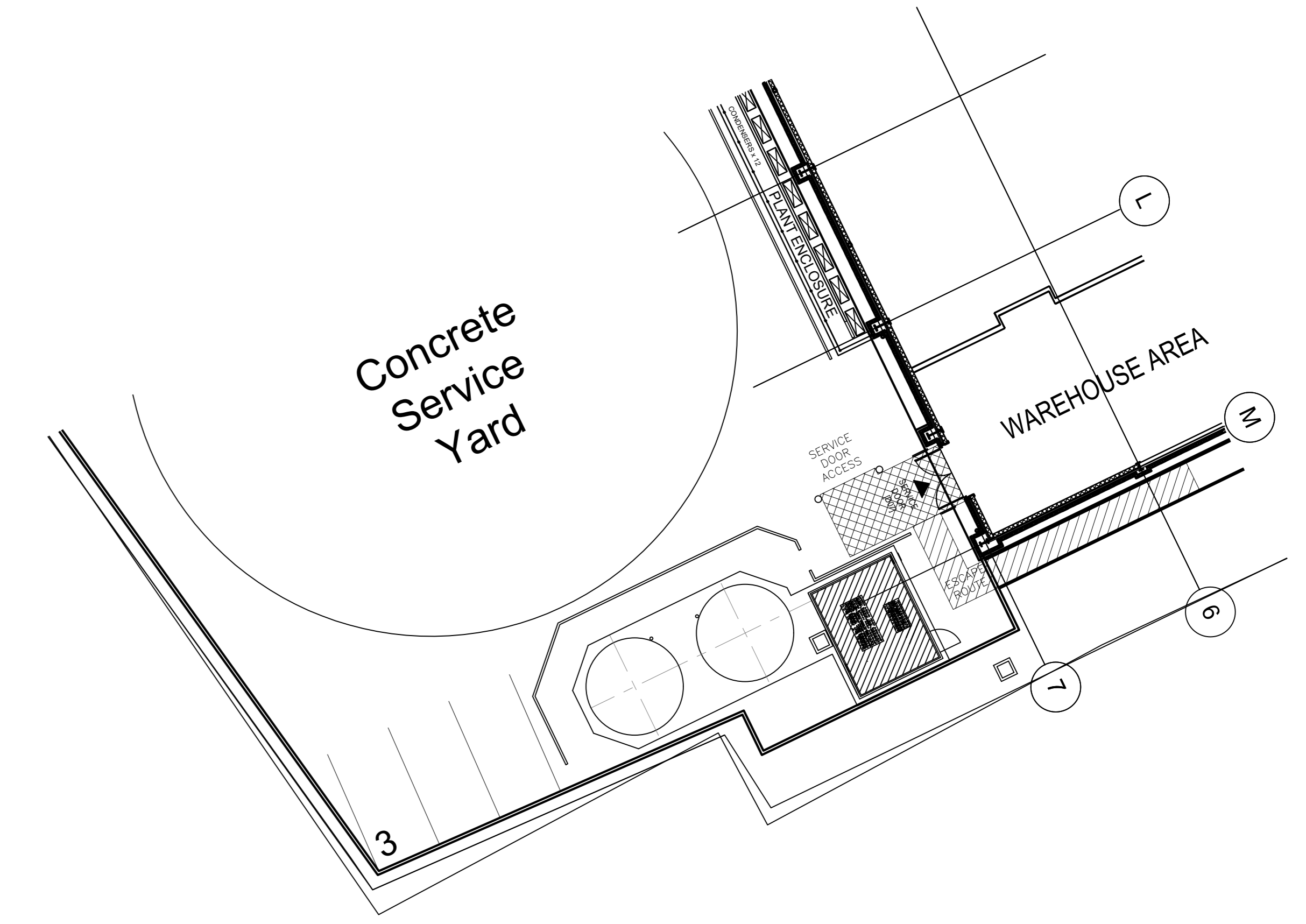
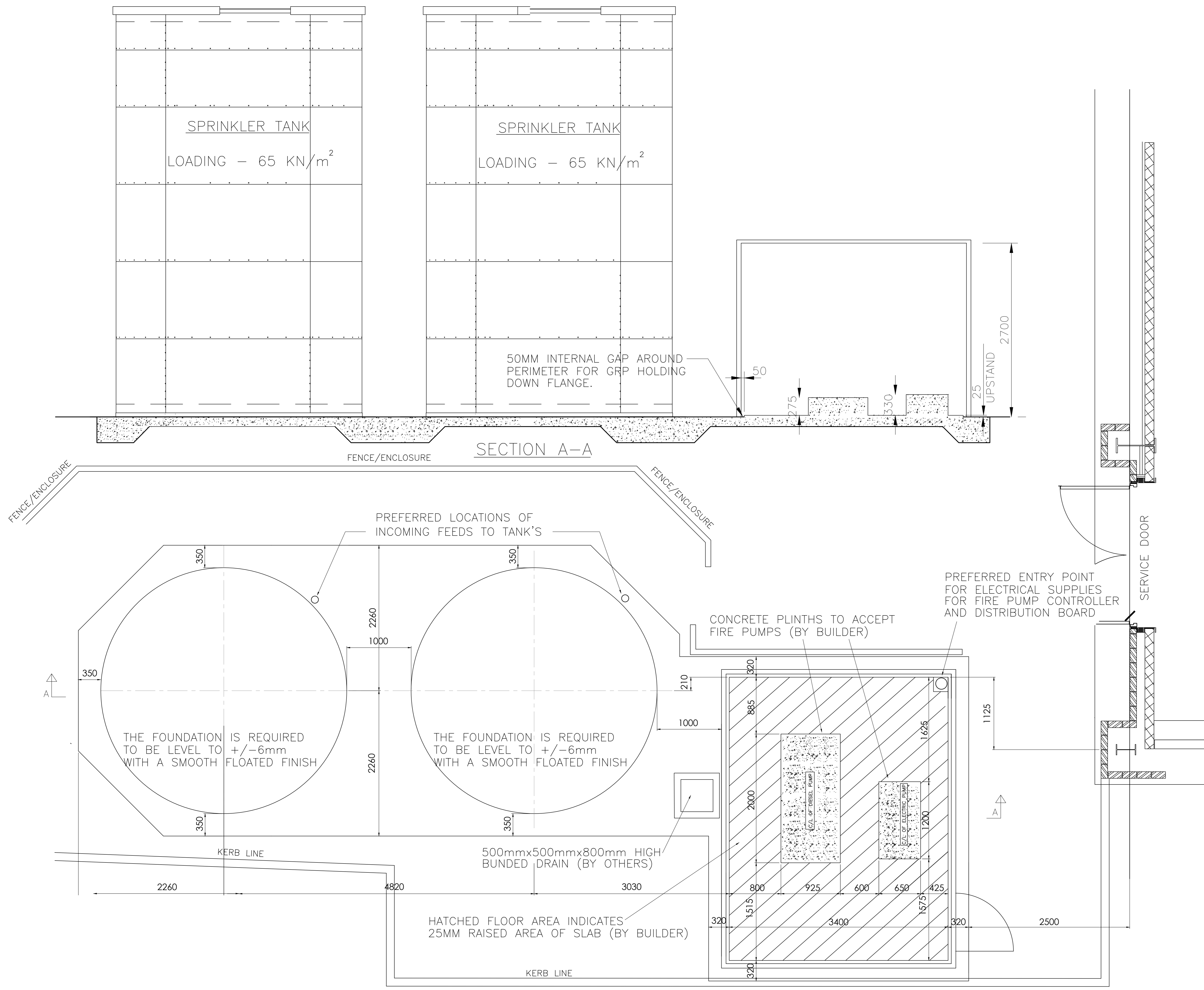


SEE DRAWING No A1.C.14424.01 FOR
 DETAILS OF THE SPRINKLER SYSTEM
 WATER SUPPLIES



LOCATION PLAN

PIPEWORK SUPPORTS			KEY SYMBOLS		WATER SUPPLIES EQUIPMENT SCHEDULE		DESIGN SPECIFICATION BS EN12845 LPC RULES		REVISION		DETAILS		DRAWN BY		CHECKED BY		DATE					
HANGER A			HANGER B		HANGER C		HANGER D		HANGER E		HANGER F		HANGER G		HANGER H		HANGER I					
TEST PROCEDURES			ALL INSTALLATION PIPEWORK SHALL BE TEST PNEUMATICALLY TO 2.5 BAR FOR A PERIOD OF 1 HOUR AND TESTED HYDRAULICALLY TO NOT LESS THAN 15 BAR OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS THE GREATER FOR A PERIOD OF NOT LESS THAN 2 HOURS.		<p>WARNING CONTROLS, PROJECTORS, SPRINKLERS AND SPRINKLERS MUST NOT BE PAINTED.</p> <p>TO THE EXECUTOR SPRINKLER PIPES MUST BE LAID TO THE FOLLOWING MINIMUM SLOPES:- WET PIPE SYSTEMS: 2mm IN 1 METRE DRY AND ALTERNATE WET PIPE SYSTEMS: 1mm IN 1 METRE PIPE DIAMETER 50mm AND ABOVE: 4mm IN 1 METRE PIPE DIAMETER LESS THAN 50mm: 12mm IN 1 METRE</p> <p>BRACKET REGULATIONS FOR ERECTION UP TO 50MM: 4.0m MAX SPACINGS 65MM - 250MM: 6.0m MAX SPACINGS</p> <p>1. PROVIDED TWO INDEPENDANT SUPPORTS ARE FITTED DIRECTLY TO THE STRUCTURE AND A SUPPORT IS USED WHICH IS CAPABLE OF BEARING A LOAD 50% GREATER THAN THAT CALLED FOR IN TABLE 40 OF EN13945.</p> <p>2. WHERE GROOVED MECHANICAL JOINTS ARE USED THE FOLLOWING MUST BE ADHERED TO:- THERE SHALL BE AT LEAST ONE PIPE SUPPORT WITHIN 1.0M OF EACH JOINT. THERE SHALL BE AT LEAST ONE INDEPENDANT PIPE SUPPORT ON EACH PIPE SECTION.</p> <p>3. THE MINIMUM DISTANCE BETWEEN ANY UPRIGHT SPRINKLER AND PIPE SUPPORT IS 150MM.</p> <p>4. THE DISTANCE FROM THE LAST PIPE SUPPORT TO THE END OF THE RANGE PIPE SHALL NOT EXCEED THE FOLLOWING:- 900MM FOR 25MM PIPING & 1200MM FOR PIPING GREATER THAN 25MM.</p>		<p>16.6KW ARMSTRONG DIESEL DRIVEN FIRE PUMP</p> <p>PUMP DUTY: 2250L/M @ 1.4 BAR</p> <p>PUMP MODEL NUMBER: 4X3X8.5</p> <p>SERIAL NUMBER: TBC</p> <p>15KW ARMSTRONG ELECTRICALLY DRIVEN FIRE PUMP</p> <p>PUMP DUTY: 2250L/M @ 1.4 BAR</p> <p>PUMP MODEL NUMBER: 4X3X8.5</p> <p>SERIAL NUMBER: TBC</p> <p>ARMSTRONG JOCKEY PUMP</p> <p>PUMP MODEL NUMBER: VMS2-9B</p> <p>SERIAL NUMBER: TBC</p> <p>TWIN FRANKLIN HODGE SPRINKLER TANKS</p> <p>EFFECTIVE CAPACITY: 67.5M3 EACH</p> <p>MIN RATE OF INFILL REQUIRED: 31.25 LITRES/MIN TO EACH TANK</p>		<p>OCCUPANCIES & HAZARD CLASSIFICATION:- RETAIL SHOP, ORDINARY HAZARD 3</p> <p>TYPE OF PROTECTION: PROPERTY</p> <p>NUMBER OF LEVELS: 1</p> <p>SHOPPING CENTRE MALL PROTECTED - N/A</p> <p>CATEGORY OF STORAGE: 2</p> <p>TYPE OF STORAGE: S1(FREESTANDING) S5(SOLID OR SLATTED SHELVES 1M OR LESS WIDE)</p> <p>AREA OF OPERATION: 216m²</p> <p>SPRINKLER HEAD SIZE: 15mm</p> <p>DISCHARGE DENSITY: 5mm/min (K FACTOR - 80)</p> <p>DESIGN SPACING: 12m²</p> <p>MINIMUM STORAGE HEIGHTS: 3.0M(S1) 2.0M(S5) & MIN 0.5M CLEARANCE BELOW SPRINKLER DEFLECTOR (WHICHEVER IS THE LEAST)</p> <p>PIPEWORK TABLE: TABLES 30 & 31</p> <p>FLOW RATE: 1000 L/min</p> <p>TYPE OF SYSTEM: 150mm WET - INST. No.1</p> <p>WATER SUPPLIES: DUPLICATE PUMPS & TANKS</p> <p>PIPEWORK TYPE: BS EN10255 RED MEDIUM TUBE</p>		<p>P2: PUMP ROOM REPOSITIONED TO AFFORD ADEQUATE CLEARANCE TO SERVICE DOOR & ESCAPE ROUTE.</p> <p>P3: PUMP ROOM REPOSITIONED TO GIVE ADDITIONAL ACCESS.</p> <p>P4: INCOMING MAINS TO TANKS ADJUSTED & RECOMING POWER SUPPLY LOCATION ADDED.</p> <p>P5: PUMPHOUSE HEIGHT AMENDED TO SUIT DELIVERY PIPE REISED HEIGHT.</p>		<p>K.D. M.W.</p> <p>M.W. D.C.</p> <p>M.W. D.C.</p> <p>M.W. D.C.</p>		<p>17.01.24</p> <p>29.01.24</p> <p>30.01.24</p> <p>01.02.24</p>		<p>HOME BARGAINS STORE LEECHMERE ROAD SUNDERLAND</p>		<p>PROPOSED SPRINKLER WATER SUPPLIES BUILDERS WORK DETAILS</p>		<p>DRAWING NUMBER: A0.C.14424.01</p> <p>REVISION: P5</p> <p>SCALE: 1-25 (A0)</p> <p>DATE: 12.01.2024</p> <p>CHECKED BY: M. WILCOX</p>	

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L.P.C.B CERTIFIED INSTALLERS

PROJECT
 HOME BARGAINS STORE
 LEECHMERE ROAD
 SUNDERLAND

TITLE
 PROPOSED SPRINKLER WATER SUPPLIES BUILDERS WORK DETAILS

ALL SPRINKLERS TO BE QUICK RESPONSE WITH A RESPONSE TIME INDEX (R.T.I.) OF LESS THAN 50 (metres.seconds)^{1/2}