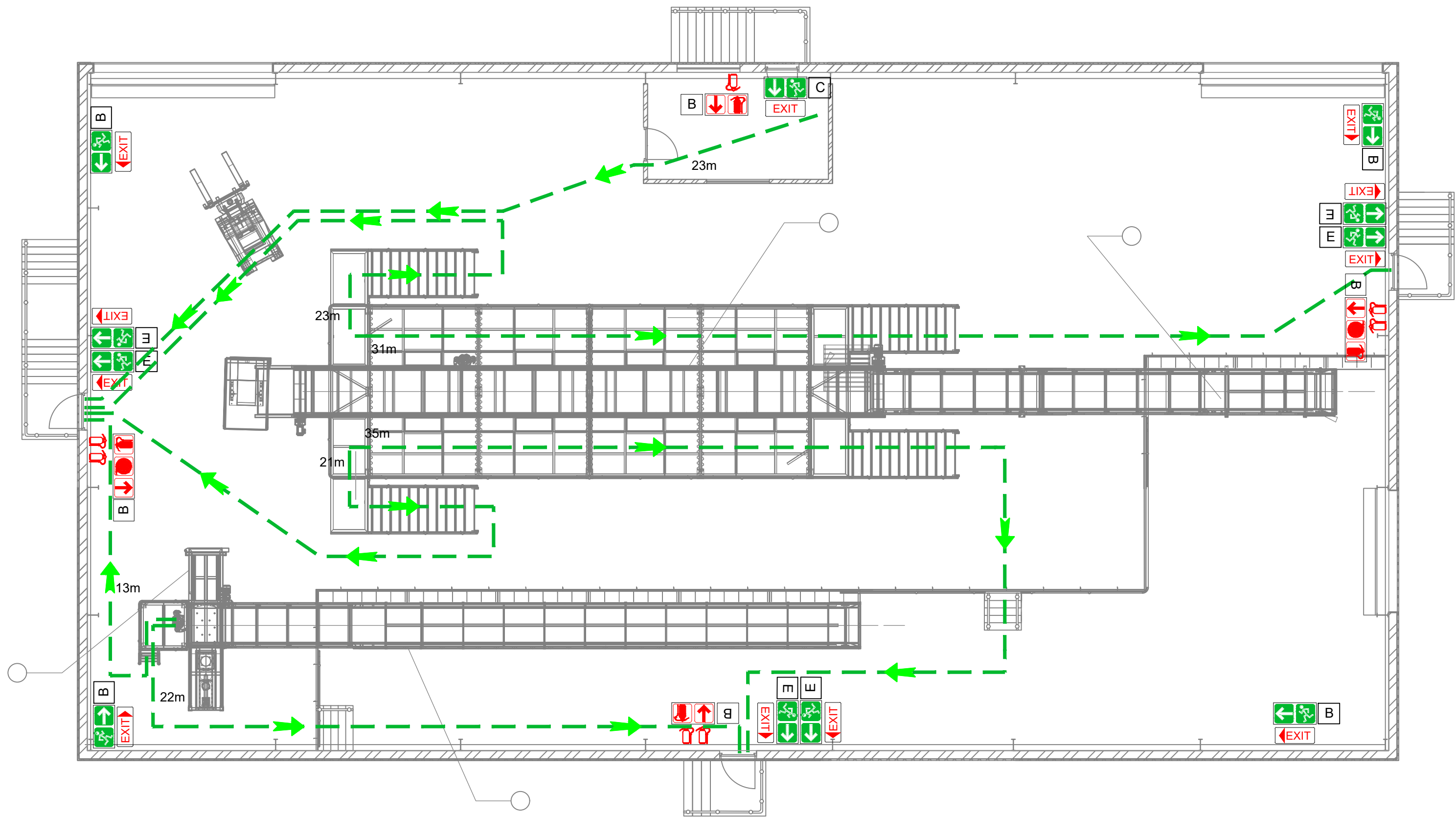
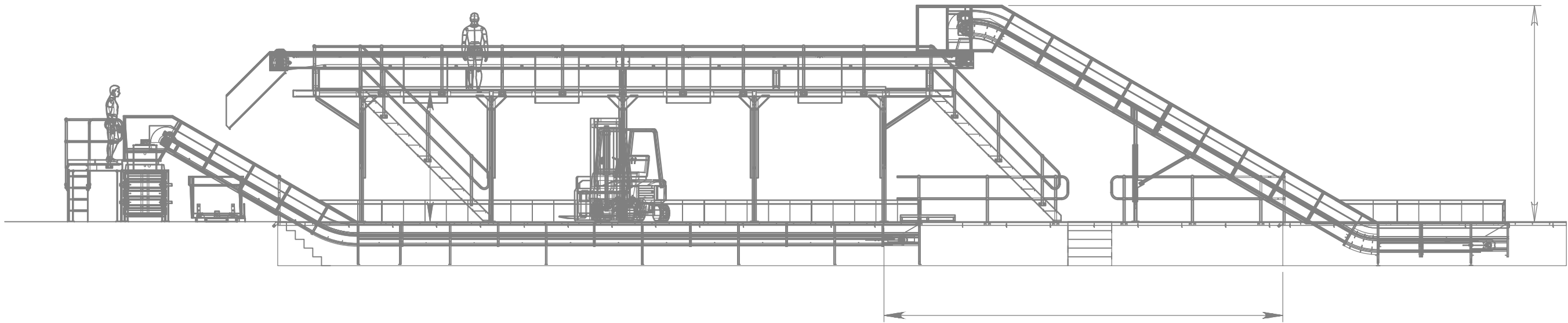




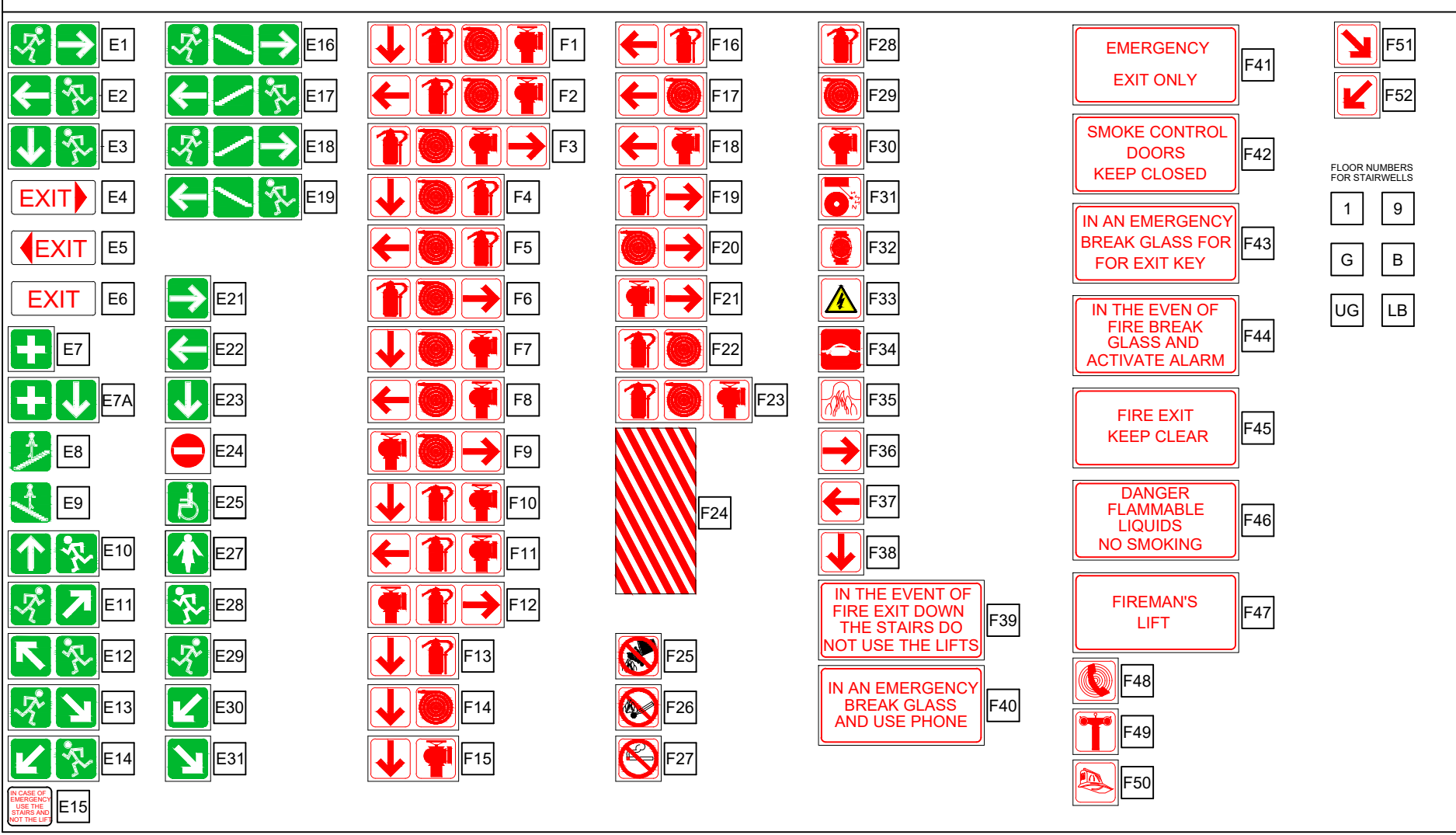
OCCUPANCY: D2 (MODERATE RISK INDUSTRIAL)
POPULATION: 44 maximum
AREA: 645 m²
FIRE PROTECTION:
FH : NOT REQUIRED (1 REQUIRED @ 1000m²)
FHR : 2 (1 REQUIRED @ 1/500m²)
FE : 7 OFF 9.0 kg DCP (1 REQUIRED @ 1/100m²)

CONVEYOR LAYOUT SCALE 1:100



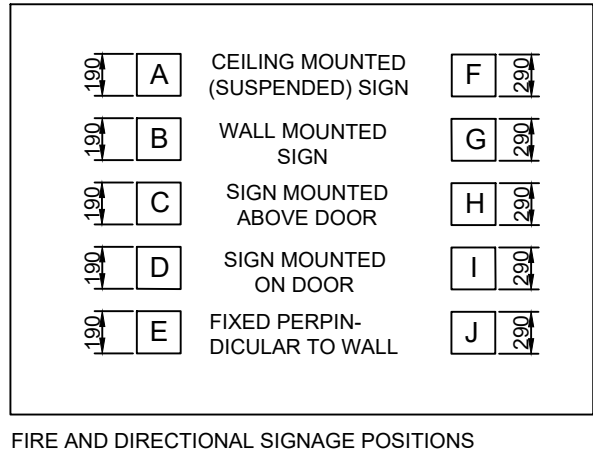
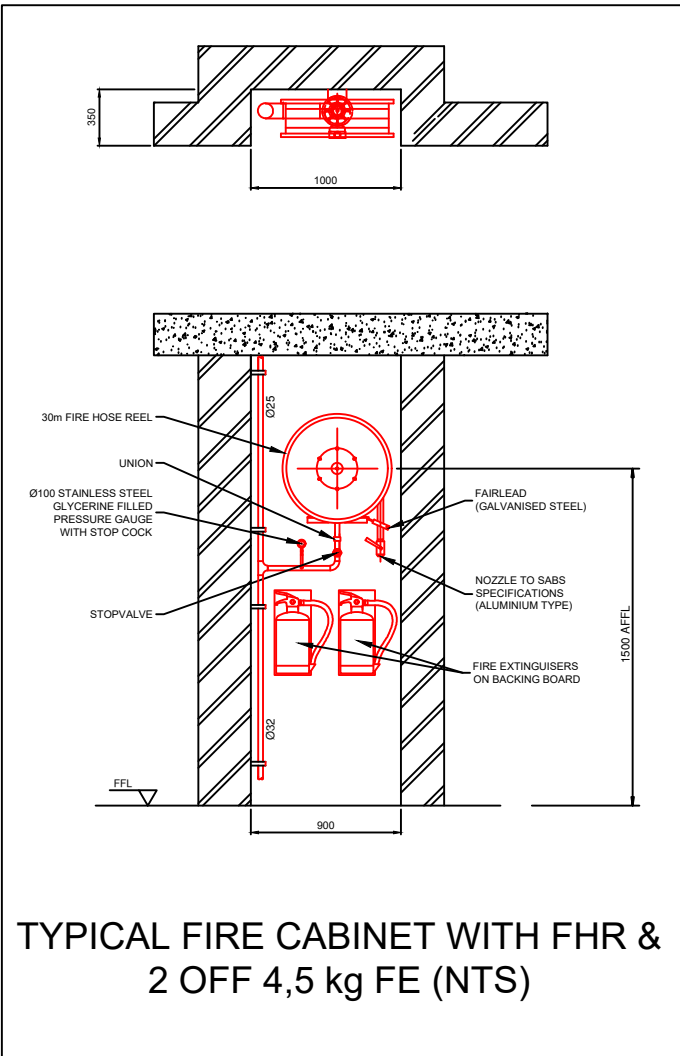
CONVEYOR ELEVATION SCALE 1:100

FIRE AND DIRECTIONAL SIGNAGE



FIRE SIGNS & EQUIPMENT COUNT

SYMBOL			
REFERENCE	E16	E17	F4
QUANTITY	1	1	1



FIRE PIPING AND SPRINKLERS:

- FIRE HOSE REEL AND FIRE HYDRANT WATER INSTALLATIONS TO SANS 10400: PART-T/W: 2010 AND SANS 10252-1:2004.
- ALL UNDERGROUND FIRE PIPING SERVING FIRE HYDRANTS SHALL BE AT LEAST Ø100MM CLASS 12 UPVC OR SIMILAR APPROVED.
- ALL UNDERGROUND FIRE PIPING TO BE COVERED WITH AT LEAST 100MM NATURAL GROUND AND THRUST BLOCKS TO BE INSTALLED ON ALL BENDS TO CIVIL ENGINEERS DETAILS.
- FIRE AND DOMESTIC PIPING TO BE SPLIT AS PER TYPICAL ERF CONNECTION DETAIL PROVIDED, WITH BOOSTER CONNECTION, ISOLATING VALVES AND NON-RETURN VALVE.
- ALL ABOVE GROUND FIRE PIPING SHALL BE SANS 62 BLACK MILD STEEL AND PAINTED SIGNAL RED, SANS 630.
- DRENCHER SPRINKLERS WHERE REQUIRED SHALL BE INSTALLED ON THE INSIDE OF THE APARTMENT WINDOWS, RATED AT 68°C, FAST RESPONSE AND BE OF THE SIDEWALL TYPE(15MM). THE SPRINKLER SHALL BE MOUNTED 200MM ABOVE THE WINDOW LINTEL AND PROTRUDE 50MM FROM THE WALL. THE SPRINKLER SHALL BE PROTECTED WITH A METAL SHIELD.
- EACH ABOVE GROUND DRENCHER WATER SUPPLY PIPE SHALL BE FITTED WITH AND ACCESSIBLE AND CLEARLY MARKED ISOLATING VALVE TO BE CLOSED BY OCCUPANTS IN CASE OF A LEAKING OR DAMAGED SPRINKLER.
- FIRE HOSE REELS ON THE HIGHEST STOREY TO BE FITTED WITH A PRESSURE GAUGE AND AIR RELEASE VALVE.
- NO PIPE WORK SHALL BE EMBEDDED IN THE SCREED OR CONCRETE FLOORS.
- PIPE SUPPORT BRACKETS SHALL BE MAXIMUM 4.0M AND BE GALVANIZED.
- FIRE PIPING SHALL BE PRESSURE TEST FOR 24 HOURS AT 1.5 TIMES THE OPERATING PRESSURE OF THE SYSTEM BY A CERTIFIED PLUMBER OR SPRINKLER INSTALLER.
- PIPE SIZES ON DRAWINGS ARE DN(NOMINAL DIAMETER).
- BELOW GROUND STEEL PIPING TO BE DENSO WRAPPED AND PROTECTED AGAINST CORROSION.
- CURRENT WATER PRESSURE IS SUFFICIENT FOR THE FIRE PROTECTION INSTALLATION, THE PRESSURE IS HOWEVER REGULATED BY COUNCIL AND ADDITIONAL PUMP SETS AND WATER STORAGE MAY BECOME A REQUIREMENT.

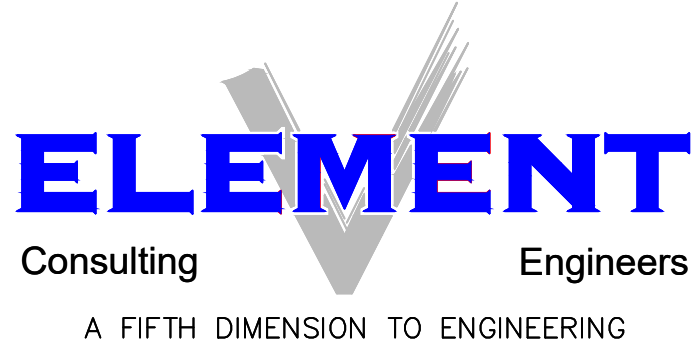
FIRE NOTES:

- NEW RESIDENTIAL BLOCK, MAIN OCCUPANCY CLASSIFIED AS H3, DOMESTIC RESIDENCE.
- ARTIFICIAL LIGHTING TO BE PROVIDED WITH A MINIMUM AVERAGE ILLUMINANCE OF 50 LX ON A HORIZONTAL PLANE 100 MM ABOVE THE FLOOR, AS PER SANS 10400: PART T.
- STRUCTURAL STABILITY AS PER SANS 10400: PART T, TABLE 6, 60 MINUTES FOR A THREE STOREY H3 BUILDING.
- ESCAPE STAIRCASES TO COMPLY WITH SANS 10400: PART M. HANDRAILS TO BE INSTALLED ON ONE SIDE OF STAIRWELL. THE BUILDING IS NOT DESIGNED TO CATER FOR PERSONS WITH DISABILITIES AND DOES NOT COMPLY TO SANS 10400: PART-S. NO EMERGENCY ROUTES CREATED, TRAVEL DISTANCE BELOW 45.0M.
- FIRE EXTINGUISHERS, FIRE HOSE REELS AND FIRE HYDRANTS TO SANS 10400: PART-T AND BE SERVICED BY A CERTIFIED INSTALLER BEFORE OCCUPATION OF THE BUILDING.
- FIRE HOSE REELS SHALL BE 30 M LONG.
- FIRE EXTINGUISHERS SHALL BE 4.5 KG DCP AT A RATE OF 1 PER 400M² AND BE HUNG ONTO FIXED BACK BOARDS.
- FIRE HYDRANTS SHALL HAVE A 65/75MM COUPLING.
- MIN WATER PRESSURE FLOW = 20 L/S @ 3.0 BAR.
- FIRE SIGNAGE TO SANS 1186, PHOTO LUMINESCENT TYPE, 190X190MM. SIGNAGE SHALL BE MECHANICALLY FIXED AND NO DOUBLE SIDED TAPE MAY BE USED.
- PRESSURE GAUGES TO BE INSTALLED AT EACH HOSE REEL ON THE HIGHEST STOREY.
- ANY OPENING IN ANY EXTERNAL WALL OF ANY DIVISION MUST BE EQUAL OR GREATER THAN 1000MM APART.
- VERTICAL SHAFTS THAT INTERLINK MORE THAN TWO STOREYS MUST BE FIRE SEALED.
- ROOF INSULATION MATERIAL TO BE NON-COMBUSTIBLE.
- FIRE TRUCK ACCESS REQUIRED INTO SITE = 4.0m(W)X4.0m(H).
- NO SMOKE VENTILATION REQUIRED, AS THE AREA OF EACH ROOM IS LESS THAN 500M².
- FIRE DETECTION TO BE INSTALLED TO SANS 10139 CATEGORY L2/M1.

0 10 20 30 50mm

ORIGINAL SIZE A1

Rev	Date	Description	Rev. by
B	26/04/2022	FOR TENDER	MM
A	25/03/2022	FOR INFORMATION	MM



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Project
ASHTON MATERIAL RECOVERY FACILITY

Plan Description
FIRE PLAN GROUND FLOOR

Designed	PF	Scale	1:100
Drawn	MM	Date	MARCH 2022
Checked	MMN	Approved	20090389
Contract No.	2104161		
Drawing No.	2104161/M/200		
Revision	A	B	
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