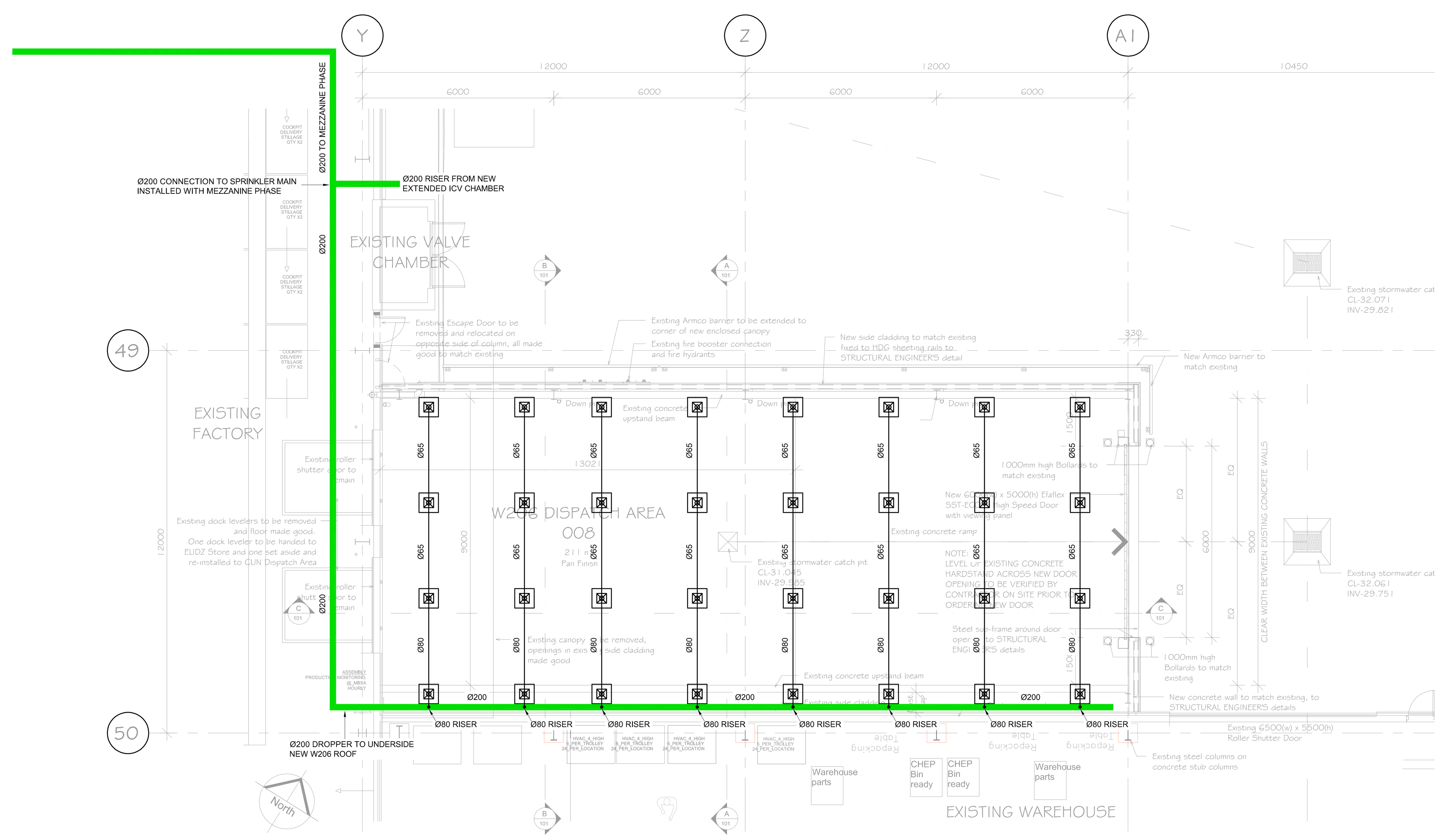
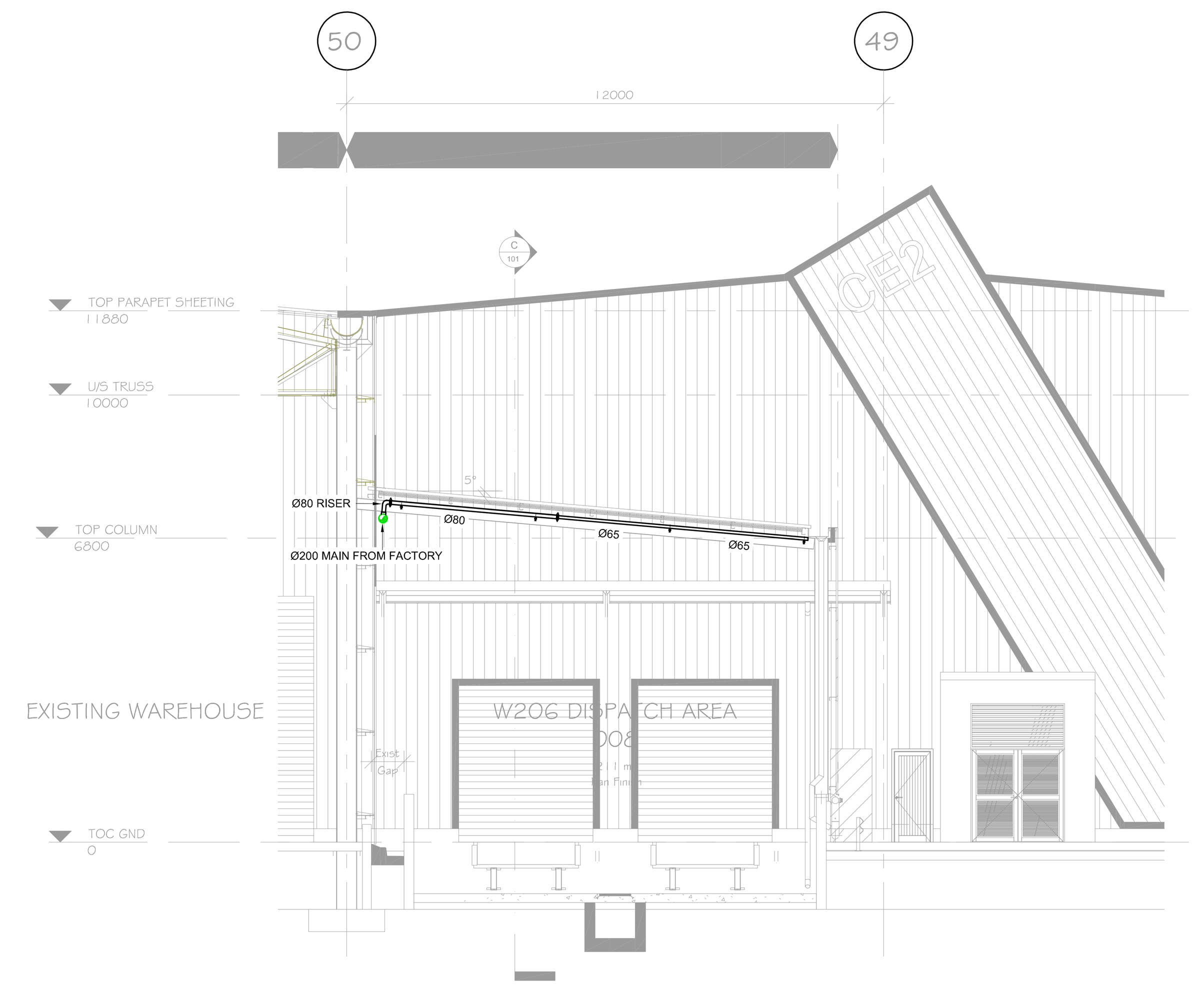
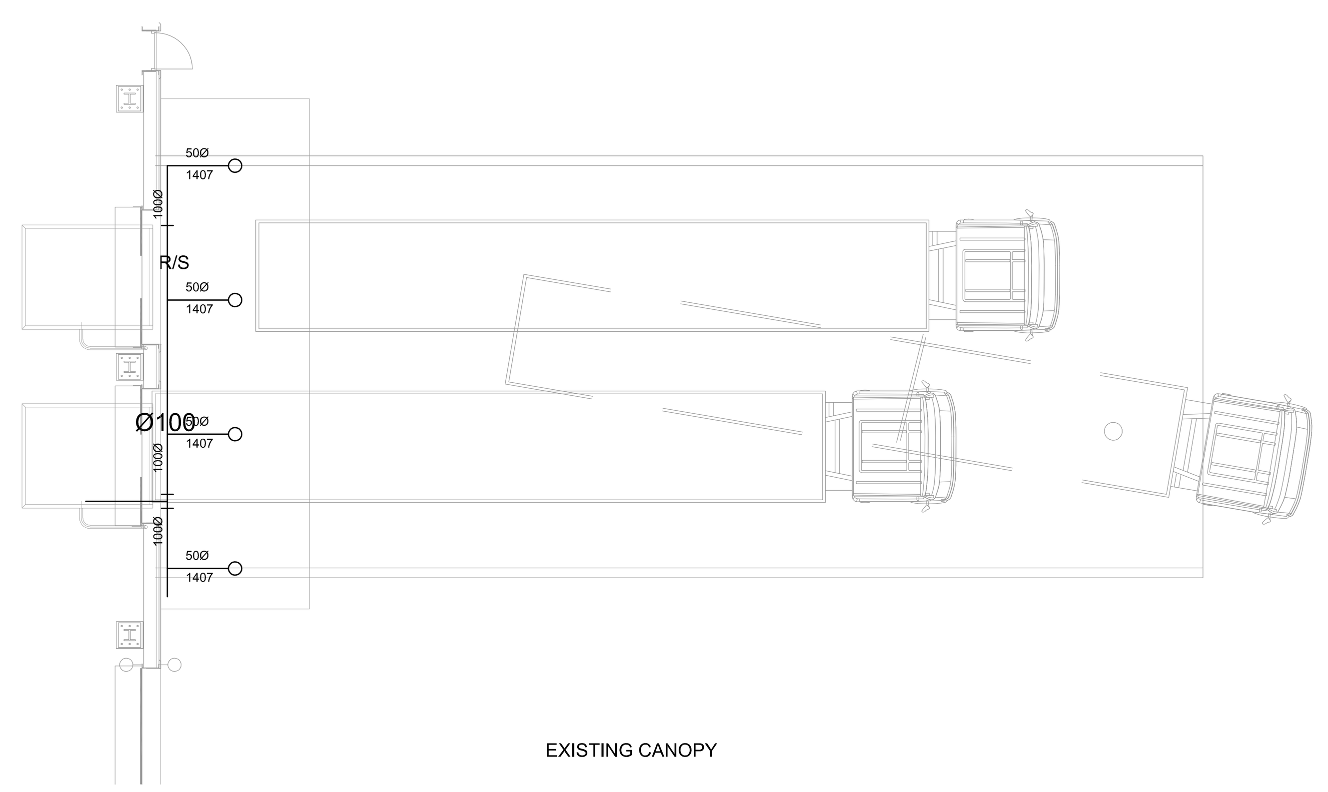
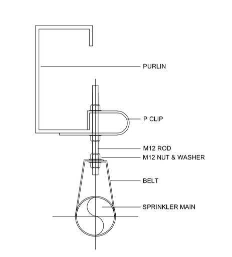




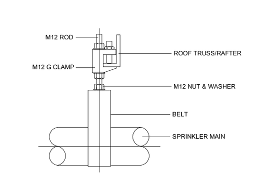


EXISTING CANOPY

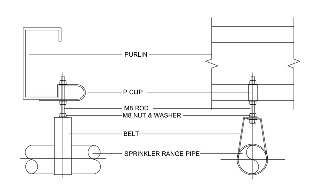
PIPE MASS IN KILOGRAMS PER METRE (Kg/m)			MAXIMUM SUPPORT SPACING (m)	LAST SUPPORT FROM END END OF PIPE WITHIN (mm)
PIPE DIAMETER	WITH WATER	WITHOUT WATER		
Ø25	2.96 Kg	2.46 Kg	4.0m	750mm
Ø32	3.96 Kg	3.17 Kg	4.0m	750mm
Ø40	4.79 Kg	3.65 Kg	4.0m	750mm
Ø50	7.19 Kg	5.17 Kg	4.0m	750mm
Ø65	9.80 Kg	6.63 Kg	4.0m	450mm
Ø80	13.19 Kg	8.64 Kg	4.0m	450mm
Ø100	20.51 Kg	12.4 Kg	4.0m	450mm
Ø150	38.03 Kg	19.8 Kg	4.0m	450mm
Ø200	70.8 Kg	33.1 Kg	4.0m	450mm



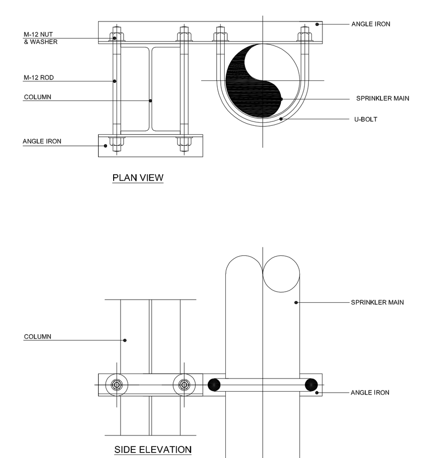
INTERMEDIATE PIPE SUPPORT DETAIL FOR SPRINKLER MAIN PIPES
TO OCCUR AT MAX 4m INTERVALS
N.T.S.



PIPE SUPPORT DETAIL FOR SPRINKLER MAIN PIPES
TO OCCUR AT INTERSECTION OF TRUSSES
N.T.S.



PIPE SUPPORT DETAIL FOR SPRINKLER RANGE PIPES
TO OCCUR AT MAX 4m INTERVALS
N.T.S.



PROPOSED PIPE SUPPORT DETAIL
TO OCCUR WHERE PIPE DROPS
FROM HIGH LEVEL

evans CONSULTING ENGINEERS cc
CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
ENERGY MANAGERS • PROJECT MANAGERS

GENERAL NOTES

1. THE CHANGES TO THE SPRINKLER SYSTEM SHALL MATCH THE CURRENT INSTALLATION IN ACCORDANCE WITH THE CERTIFICATION OF THE BUILDING (FM APPROVED).
2. EXTERNAL / EXPOSED SPRINKLER PIPING ABOVE GROUND SHALL BE GALVANIZED TO RELEVANT SABS STANDARDS
3. INTERNAL / EXPOSED SPRINKLER PIPING ABOVE GROUND SHALL BE BLACK MILD STEEL TO RELEVANT SABS STANDARDS
4. ALL PLUMBING WORK CARRIED OUT TO BE TO SANS 10254
5. ALL SPRINKLER PIPING SHALL BE CLEANED, PRIMED AND PAINTED WITH RED OXIDE AND SIGNAL RED ENAMEL PAINT ON COMPLETION OF INSTALLATION

LEGEND

- SPRINKLER MAIN
- ESFR SPRINKLER HEAD (K363 TO MATCH EXISTING)
- SPRINKLER RISER
- RANGE PIPES

DESIGN DATA

DESIGN DENSITY AND HAZARD			
AREA	DENSITY	HAZARD	CATEGORY
ROOF	ESFR	HIGH	
OFFICES	5 mm/min	ORDINARY	

SPRINKLERS		
AREA	TYPE	TEMPERATURE
ROOF	FM APPROVED	TO MATCH EXISTING (74°C, K = 363 TO BE CONFIRMED ON SITE)
OFFICE	FM APPROVED	68°C

REVISIONS

RevID	ChID	Change Name	Date

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Client Aproval:

Date:

PROJECT

MANUFACTURING FACILITY IN ZONE 1A
C2 (YANFENG) ADDITIONS AND ALTERATIONS

LOCATION

CE2 (YANFENG FACILITY)
IDZ EAST LONDON

ISSUED FOR

FOR INFORMATION

DRAWING

FIRE PROTECTION SERVICES :
SPRINKLER INSTALLATION
(W206 DISPATCH AREA)

PROJECT NO.	2019 - 348
DRAWING NO.	CE2 - 12 - 003
Scale:	1:100
Date:	2020/07/28
DRAFTING AND DESIGN TEAM	
Drawn by:	C.Leach
Checked by:	C.Leach

APPROVAL DRAWING

Name: DJ Evans
Pr. Tech. (Eng.) 200570031

Signed: Date:

Practice: Evans Consulting Engineers cc
CK 2010/127707/23