CODE FIRE SAFETY

COMBINED FIRE SPRINKLER AND FIRE HYDRANT SYSTEM | 25 - 27 BOYD ST, TWEED HEADS

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

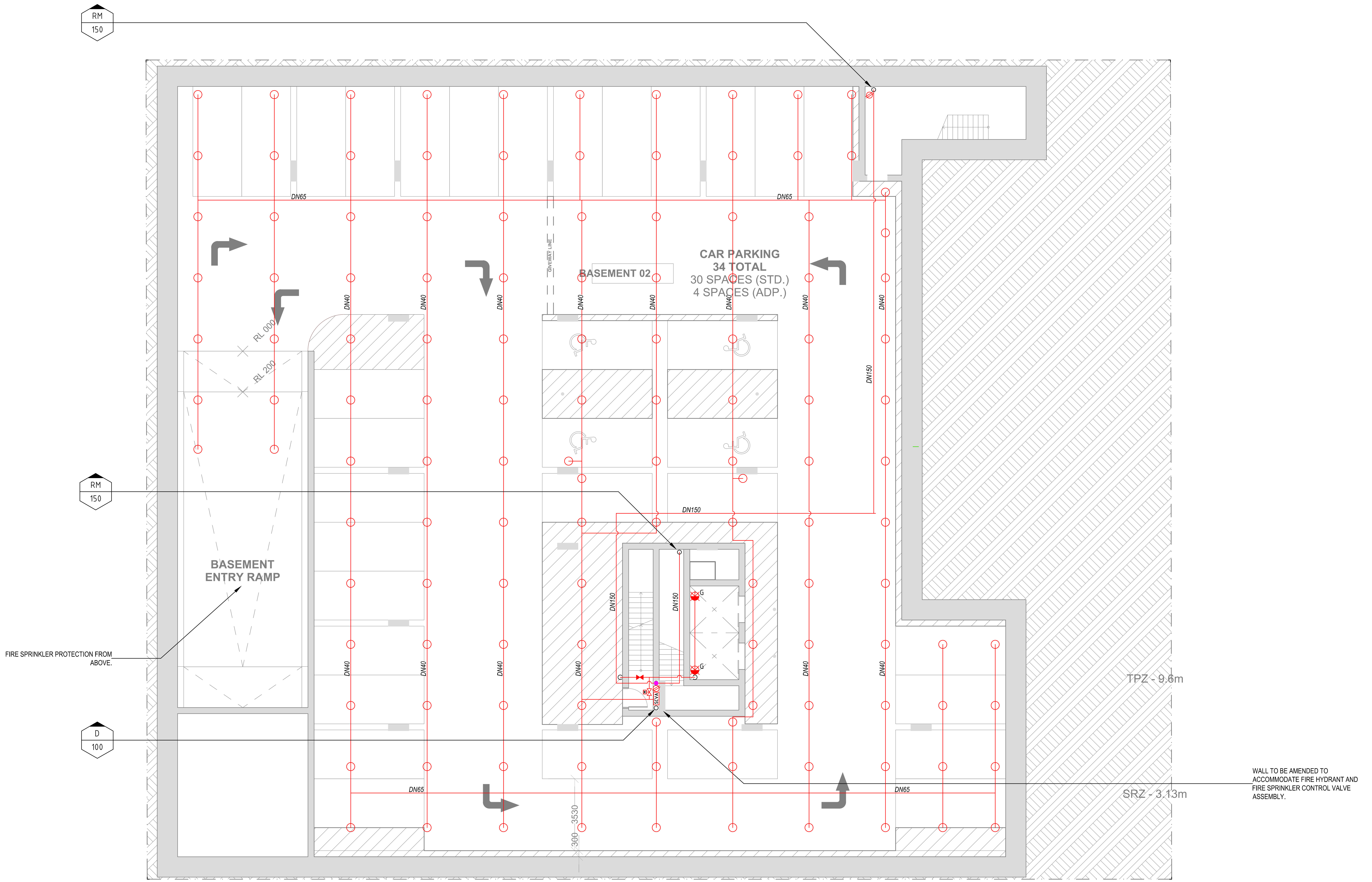
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	REVISION DESCRIPTION	DATE
A	DA SUBMISSION	09.12.24

DA SUBMISSION

CONSULTANT: Code Fire Safety — FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: BASEMENT 02

DRAWN C.T	REVIEWED S.M	DATE 09.12.24	
DESIGN C.T	SCALE 1:200 ON A1		
JOB No 10792	DRAWING No FS00	REV A	

CODE FIRE SAFETY

COMBINED FIRE SPRINKLER AND FIRE HYDRANT SYSTEM | 25 - 27 BOYD ST, TWEED HEADS

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- 79° K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- G K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- SCVA FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

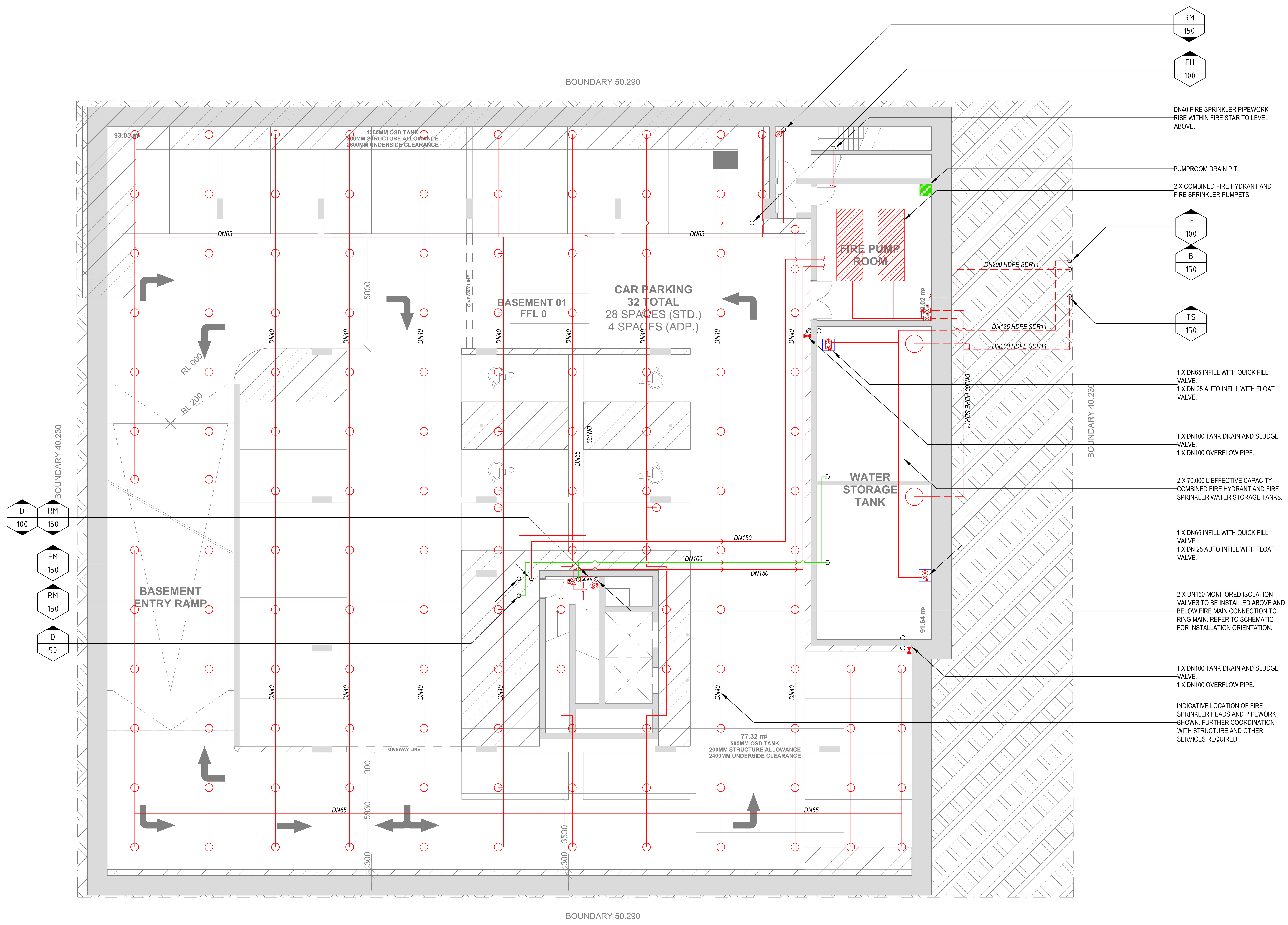
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	REVISION DESCRIPTION	DATE
B	DA SUBMISSION – ADDITIONAL BASEMENT LEVEL	09.12.24
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety — FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM	
TITLE:	BASEMENT 01
DRAWN	C.T
REVIEWED	S.M
DATE	09.12.24
DESIGN	C.T
SCALE	1:200 ON A1
JOB No	10792
DRAWING No	FS01
REV	B

CODE FIRE SAFETY

COMBINED FIRE SPRINKLER AND FIRE HYDRANT SYSTEM

25 - 27 BOYD ST, TWEED HEADS

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- 79° K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- G K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- SCVA FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

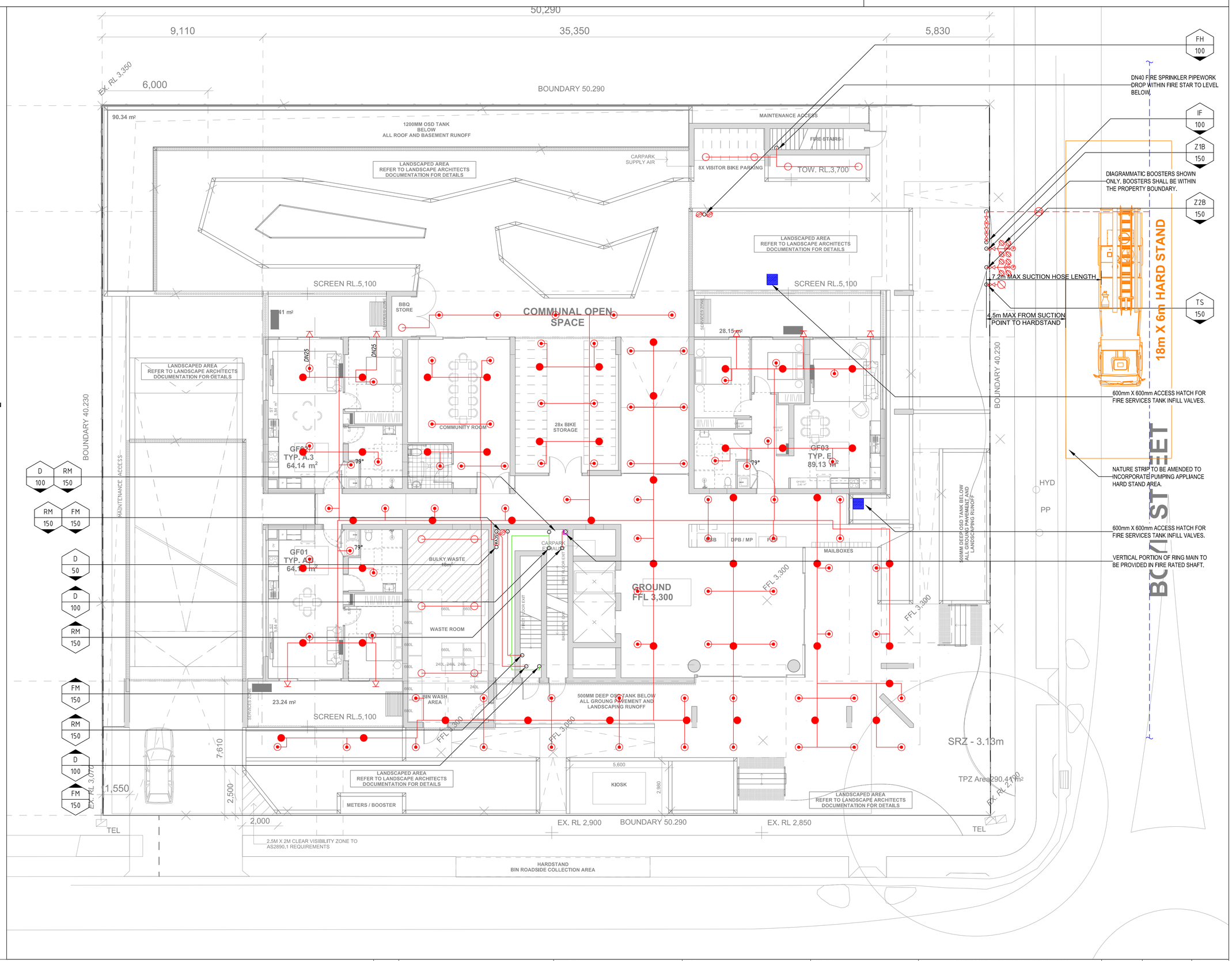
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	DESCRIPTION	DATE
B	DA SUBMISSION – ADDITIONAL BASEMENT LEVEL	09.12.24
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety – FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: GROUND LEVEL

DRAWN C.T	REVIEWED S.M	DATE 09.12.24	
DESIGN C.T	SCALE 1:100 ON A1		
JOB No 10792	DRAWING No FS02	REV B	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- 79° K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- G K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- SCVA FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

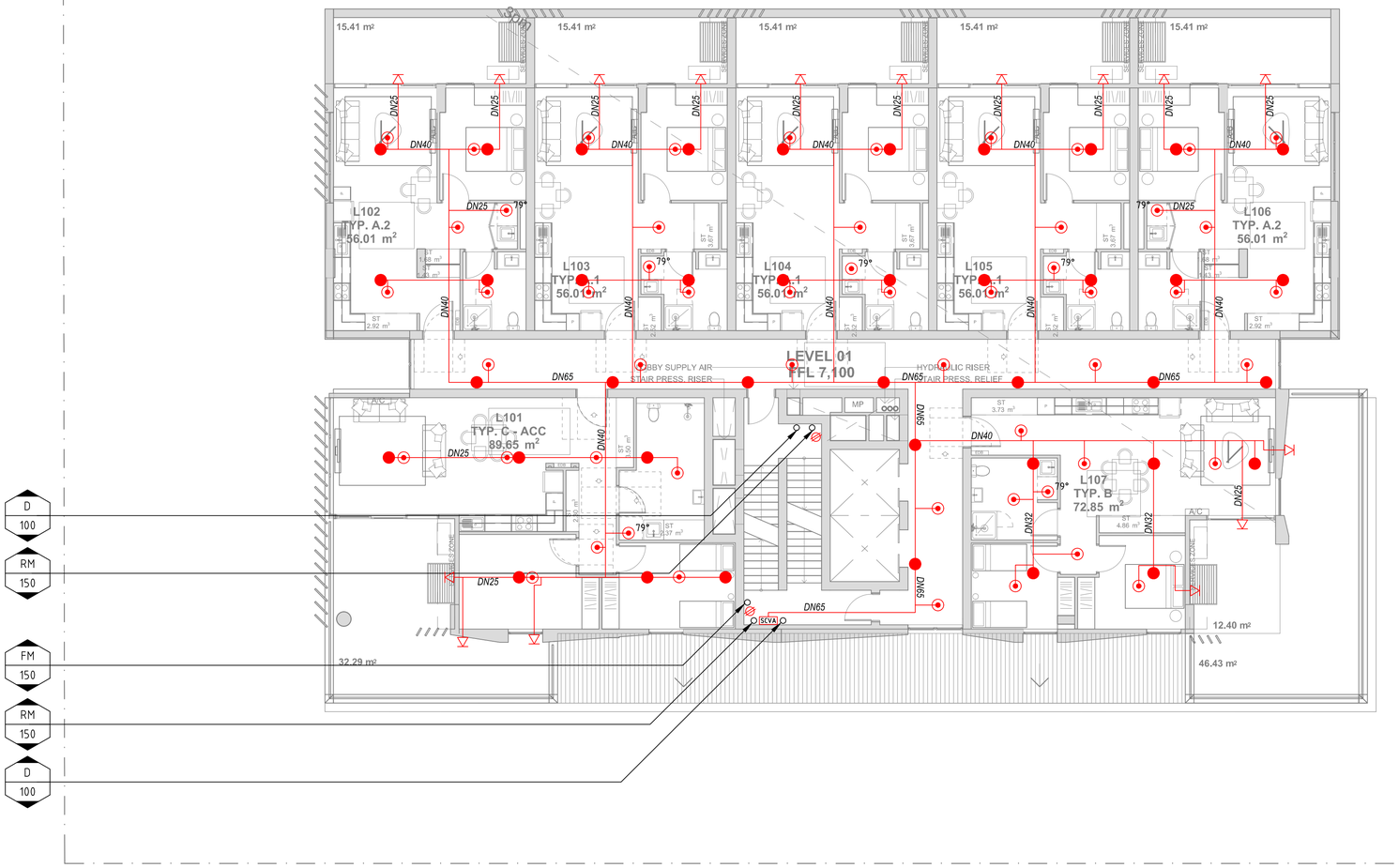
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- -- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- -- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- -- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



BRETT STREET

BOYD STREET

APPROX NORTH

REV	DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety – Fire Safety Engineering & Design

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: LEVEL 1

DRAWN	C.T	REVIEWED	S.M	DATE	09.10.24
DESIGN	C.T	SCALE	1:100 ON A1		
JOB No	10792	DRAWING No	FS03	REV	A

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

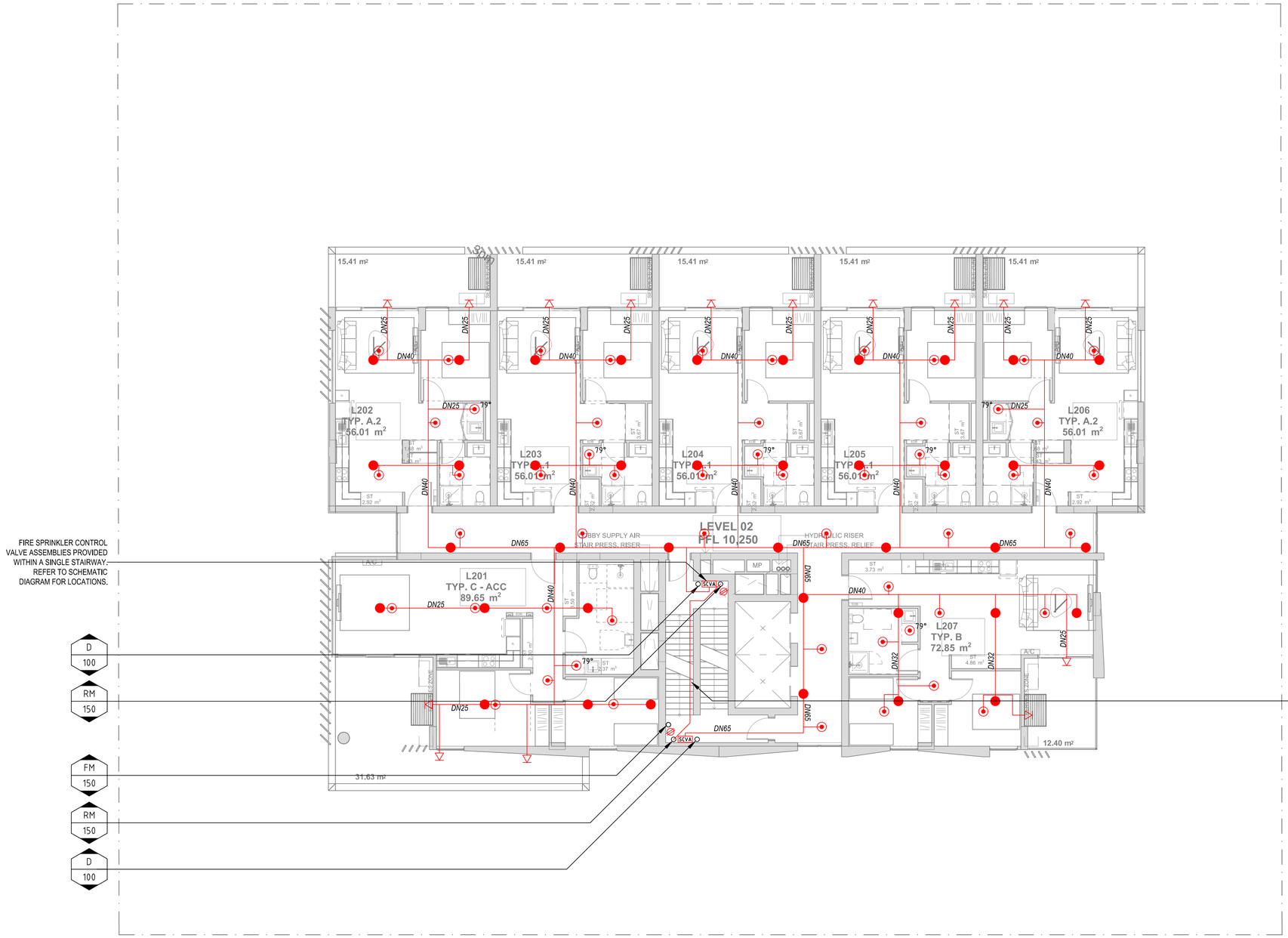
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	REVISION DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety

CLIENT:

ARCHITECT: CKDS

TITLE: TYPICAL LEVELS 2 - 5

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

DRAWN C.T	REVIEWED S.M	DATE 09.10.24	
DESIGN C.T	SCALE 1:100 ON A1		
JOB No 10792	DRAWING No FS04	REV A	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

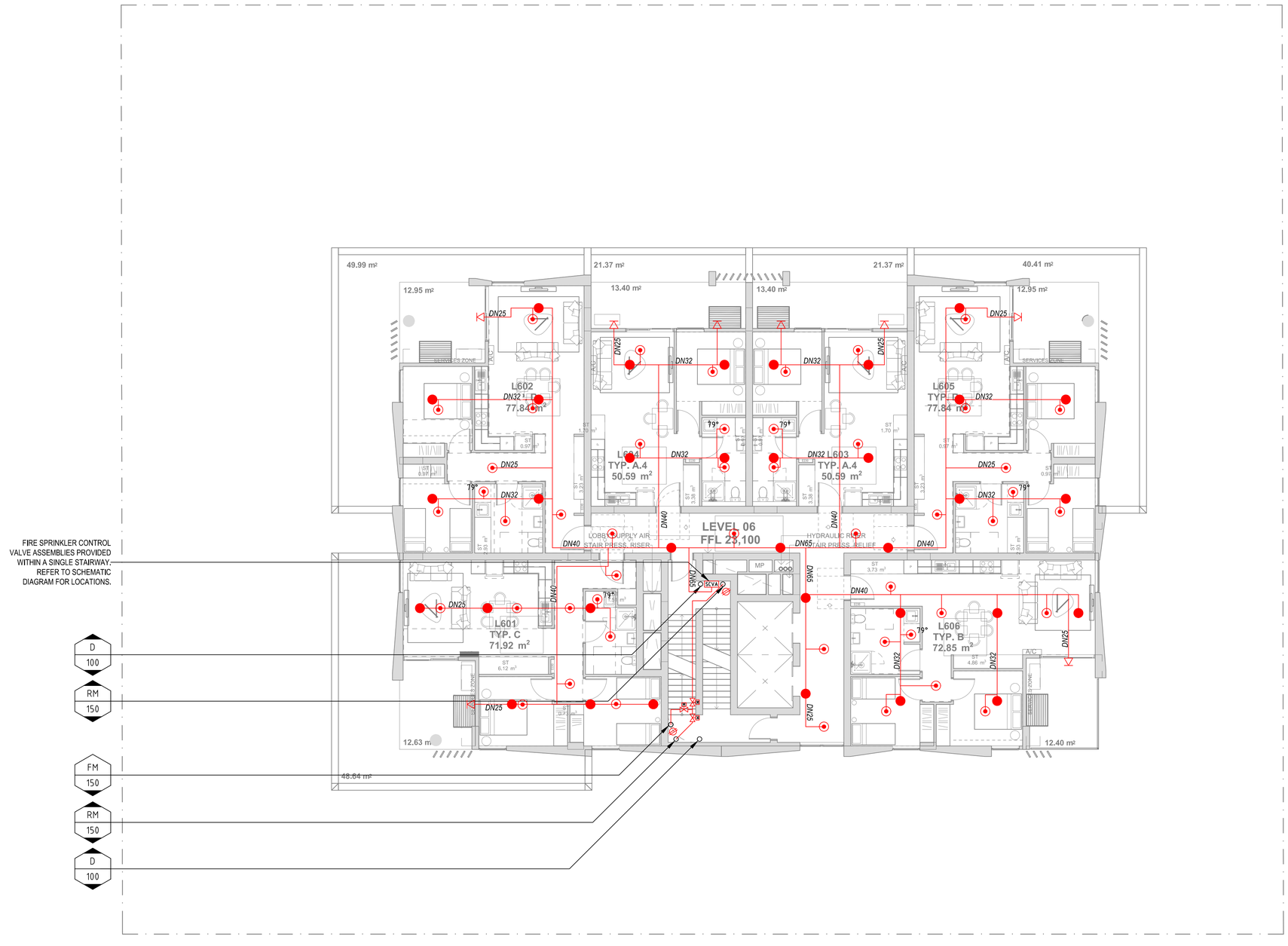
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety — FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: SKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: LEVEL 6

DRAWN C.T	REVIEWED S.M	DATE 09.10.24	
DESIGN C.T	SCALE 1:100 ON A1		
JOB No 10792	DRAWING No FS05	REV A	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

APPROX NORTH

REV	REVISION DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety — FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: TYPICAL LEVELS 7 - 12

DRAWN C.T	REVIEWED S.M	DATE 09.10.24	
DESIGN C.T	SCALE 1:100 ON A1		
JOB No 10792	DRAWING No FS06	REV A	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- 79° K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- G K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- SCVA FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

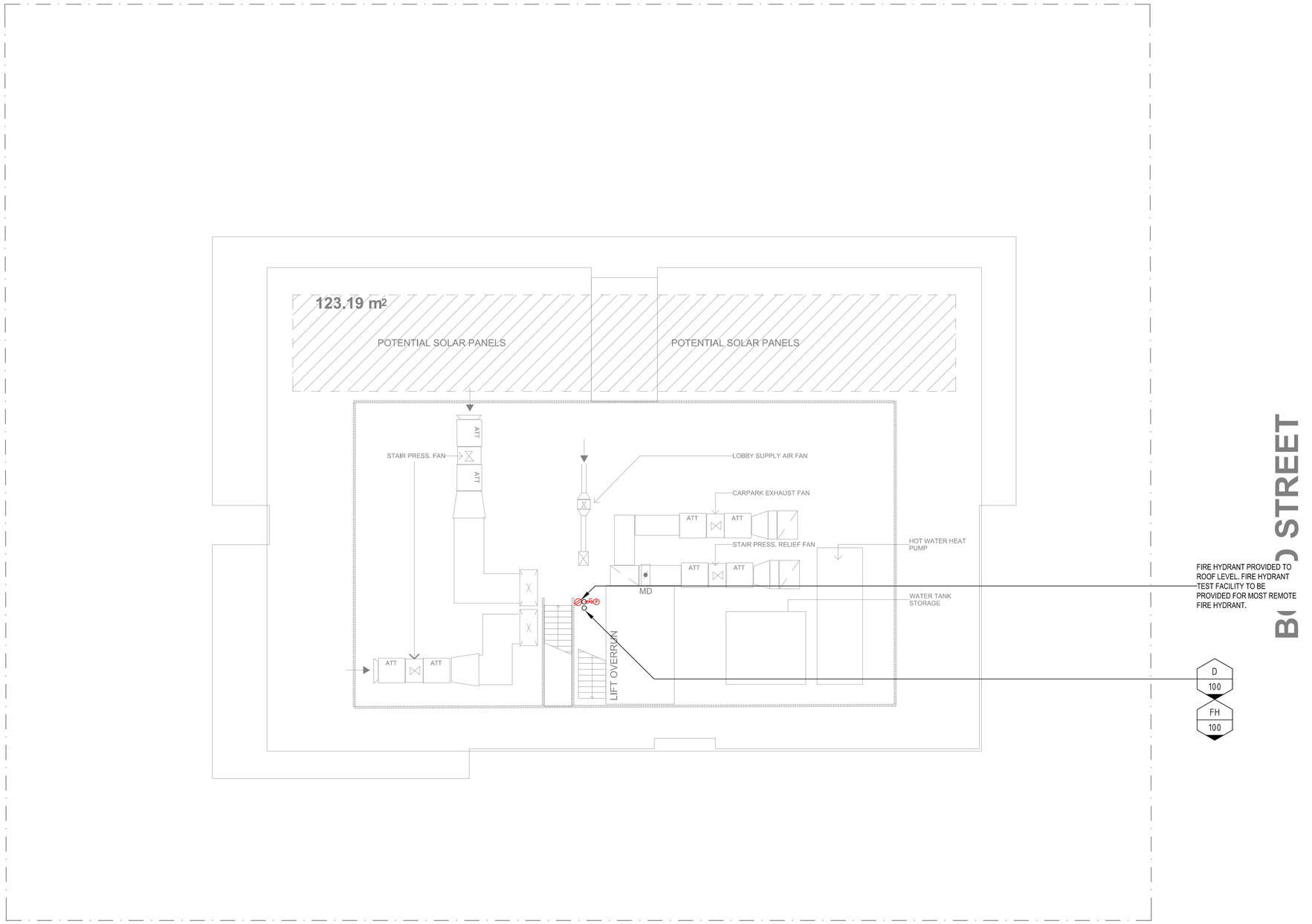
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



APPROX NORTH

REV	REVISION DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety — FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: CKDS

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

TITLE: ROOF LEVEL

DRAWN C.T	REVIEWED S.M	DATE 09.10.24	
DESIGN C.T	SCALE 1:100 ON A1		
JOB No 10792	DRAWING No FS07	REV A	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
- K8(MET) 79°C F.R 15mm CONCEALED SPACE FIRE SPRINKLER HEAD
- ISOLATION VALVE (NORMALLY CLOSED)
- ISOLATION VALVE
- MONITORED ISOLATION VALVE
- PIPE RISE / DROP
- PIPE RISE / DROP NO PENETRATION
- ABOVE GROUND PIPEWORK
- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

1. THE COMBINED FIRE HYDRANT AND SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH AS2419.1-2021, AS2118.1-2017 A2, AS2118.6-2012, AS2941-2013 AND AS2304-2019.

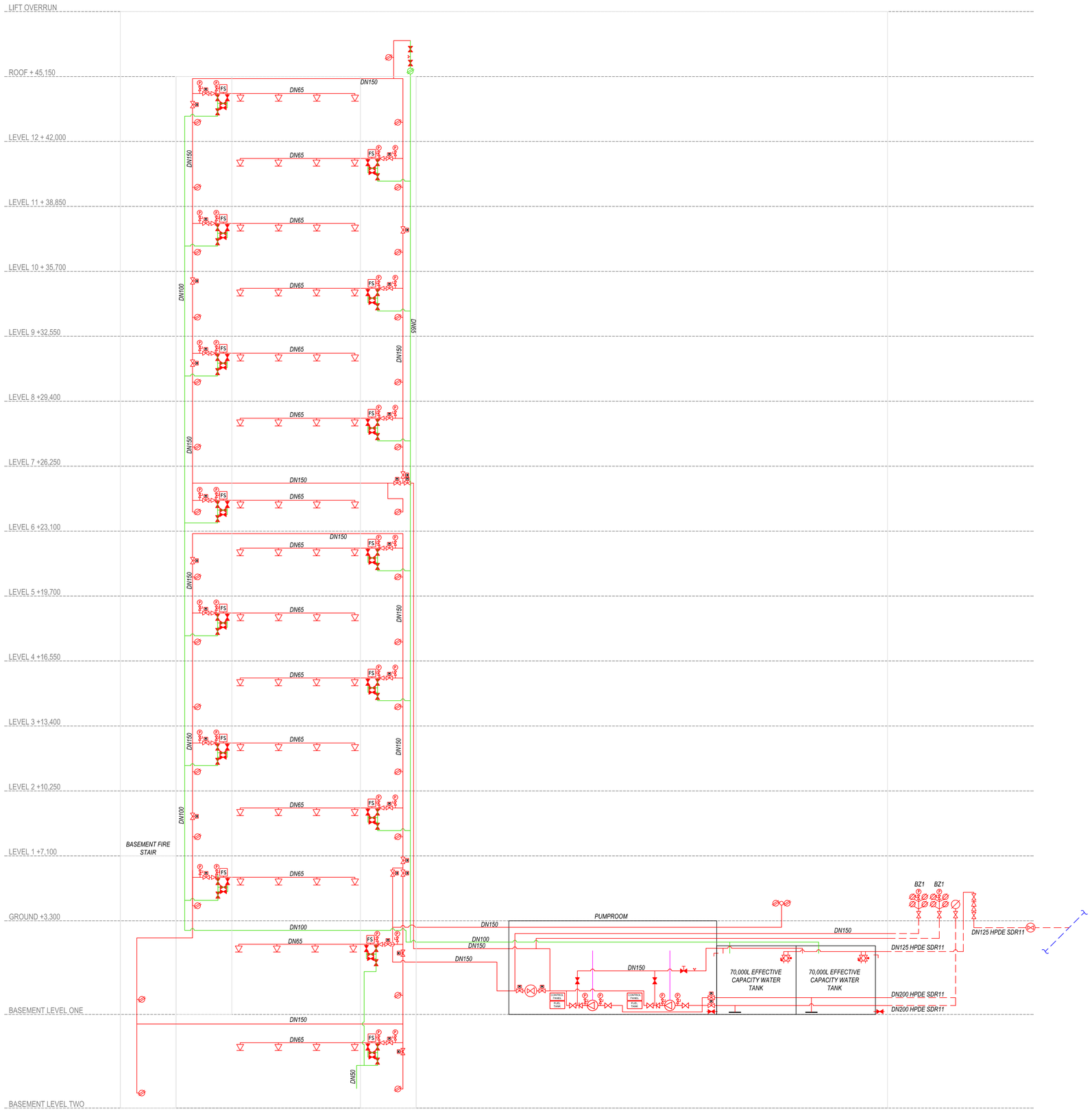
ANTICIPATED PERFORMANCE-BASED SOLUTIONS

- HARDSTAND AREA MAY INCORPORATE PORTION OF NATURE STRIP.
- USE OF A SINGLE PRESSURE ZONE NOT EXCEEDING 45m.
- FIRE SPRINKLER CONTROL VALVE ASSEMBLIES PROVIDED WITHIN FIRE STAIRS AND NOT PROVIDED WITH DIRECT EGRESS TO ROAD OR OPEN SPACE.

DESIGN CRITERIA:

OCCUPANCY: BASEMENT CAR PARK
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



B	DA SUBMISSION – ADDITIONAL BASEMENT LEVEL	09.12.24
A	DA SUBMISSION	09.10.24
REV	REVISION DESCRIPTION	DATE

DA SUBMISSION

CONSULTANT: Code Fire Safety – FIRE SAFETY ENGINEERING & DESIGN

CLIENT:

ARCHITECT: SKDS

TITLE: SCHEMATIC DIAGRAM

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

DRAWN C.T	REVIEWED S.M	DATE 09.12.24	
DESIGN C.T	SCALE NTS ON A1		
JOB No 10792	DRAWING No FS08	REV B	

LEGEND

- K8(MET) 68°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- 79° K8(MET) 79°C F.R 15mm RESIDENTIAL SEMI RECESSED FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm RESIDENTIAL SIDEWALL FIRE SPRINKLER HEAD
- K8(MET) 68°C F.R 15mm EXPOSED RESIDENTIAL PENDANT FIRE SPRINKLER HEAD
- G K8(MET) 141°C F.R 15mm FIRE SPRINKLER HEAD WITH STOUT METAL GUARD WITHIN LIFT SHAFT
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- PIPE RISE / DROP NO PENETRATION
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- UNDERGROUND PIPEWORK
- ABOVE GROUND DRAIN PIPEWORK
- PIPEWORK CONTINUATION
- FIRE HYDRANT LANDING VALVE
- PRESSURE GAUGE
- SCVA FIRE SPRINKLER CONTROL VALVE ASSEMBLY
- DN150 LARGE BORE SUCTION POINT
- DN150 4 POINT BOOSTER

DESIGN NOTES

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DESIGN CRITERIA:

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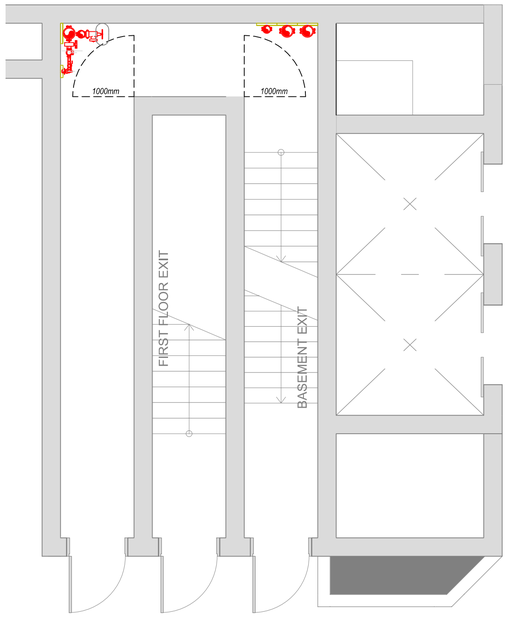
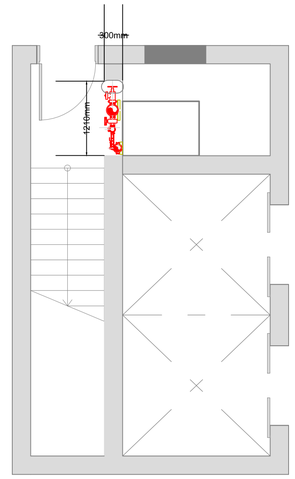
CATEGORY: ORDINARY HAZARD 2
DESIGN: 60 L/min OPERATING 12 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 57 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL

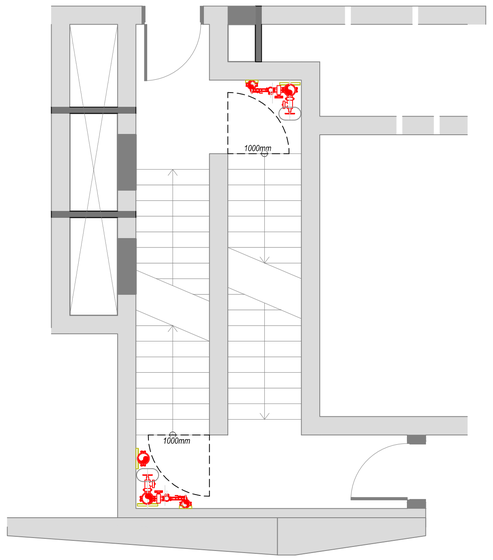
OCCUPANCY: RESIDENTIAL
CATEGORY: LIGHT HAZARD
DESIGN: 4.1mm/min/sqm OPERATING 4 FIRE SPRINKLER HEADS FLOWING
MINIMUM PRESSURE: 333 kPa PER SPRINKLER
K-FACTOR (METRIC): 8.1 NOMINAL



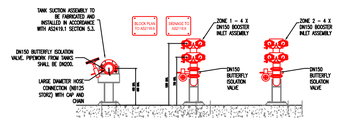
PIPEWORK AND CONTROL VALVE ASSEMBLY WITHIN GROUND LEVEL FIRE STAIR - NTS



CONTROL VALVE ASSEMBLY AND FIRE HYDRANT WITHIN GROUND LEVEL FIRE STAIR - NTS



TYPICAL CONTROL VALVE ASSEMBLY AND FIRE HYDRANT WITHIN GROUND LEVEL FIRE STAIR - NTS



COMBINED FIRE HYDRANT AND FIRE SPRINKLER BOOSTER ASSEMBLY - NTS

APPROX NORTH

REV	REVISION DESCRIPTION	DATE
A	DA SUBMISSION	09.10.24

DA SUBMISSION

CONSULTANT: Code Fire Safety – Fire Safety Engineering & Design

CLIENT:

ARCHITECT: CKDS

TITLE: DETAIL SHEET

COMBINED FIRE SPRINKLER SYSTEM AND FIRE HYDRANT SYSTEM

DRAWN	C.T	REVIEWED	S.M	DATE	09.10.24
DESIGN	C.T	SCALE	NTS ON A1		
JOB No	10792	DRAWING No	FS09	REV	A