

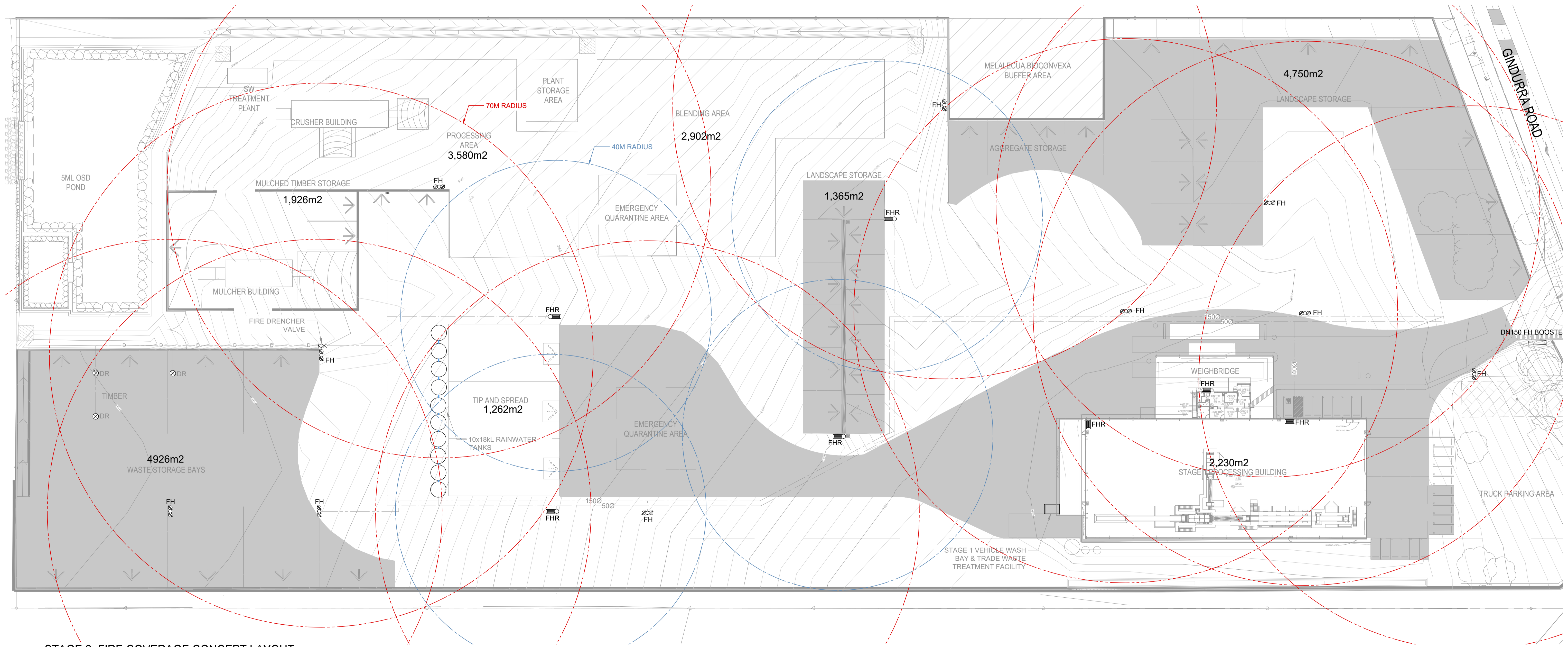


KEY	
	EXTERNAL FIRE HYDRANT COVERAGE (60+10m SPRAY)
	FIRE HOSE REEL COVERAGE (36+4m SPRAY)

FIRE SERVICE REQUIREMENTS	
FLOOR AREA OF BUILDING	2,206m ²
CLASS OF BUILDING	8 & 5
OPEN YARDS	<9,000m ²
FHR REQUIRED	YES
FH COVERAGE REQUIRED	YES (EXTERNAL)
BUILDING SPRINKLERED	NO
FLOW REQUIRED	20L/s
FLOW REQUIRED AT BOOSTER	20L/s
PRESSURE REQUIRED	250 kPa

FIRE HYDRANT SERVICE DESIGN CALCULATIONS	
PRESSURE REQUIRED	250 kPa
FLOW REQUIRED	20L/s
AVAILABLE PRESSURE	467 kPa
INDEX LENGTH	460m
HEADLOSS PIPES	40 kPa
HEADLOSS FITTINGS	105 kPa INCLUDING BOOSTER & DCDV
STATIC HEAD	-30 kPa
TOTAL HEAD LOSS	115 kPa
PRESSURE AT MOST DISADVANTAGED HYDRANT	352 kPa
A PUMP IS NOT REQUIRED	

PRESSURE AND FLOW STATEMENT - 30.01.2020		
Physical Data		80mm Hydrant Flow Test Results
Main and Hydrant Flow Test Location indicated on attached map	Y	Pressure at Main (Ground Level) with:
Main Diameter (mm)	150mm	Pressure (kPa)
Ground Level (AHD) at Test Location (m)	209.0m	<ul style="list-style-type: none"> * No Flow 505 * 0.66L/s Flow 505 * 5.0 L/s Flow 501 * 10.0 L/s Flow 494 * 15.0 L/s Flow 482 * 20.0 L/s Flow 467 * 25.0 L/s Flow 447 * 30.0 L/s Flow 424 * 35.0 L/s Flow 398 * 40.0 L/s Flow 367 * 45.0 L/s Flow 332 * Max. Flow (49.0 L/s) 294

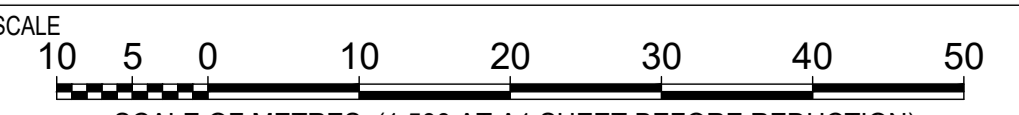


STAGE 2 FIRE COVERAGE CONCEPT LAYOUT
SCALE 1:500

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

REVISION	DESCRIPTION	DATE	VERSION
A	FOR INFORMATION	11.12.20	

INFORMATION



SCALE OF METRES (1:500 AT A1 SHEET BEFORE REDUCTION)

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PROJECT MANAGER



CLIENT **KARIONG SAND & SOIL SUPPLIES**
ADDRESS **90 GINDURRA ROAD, SOMERSBY - LOT 4, DP227279**
PROJECT **PROPOSED KARIONG SAND & SOIL SUPPLIES FACILITY - STAGE 2 CONCEPT**

DRAWING TITLE **HYDRAULIC SERVICES STAGE 2 CONCEPT FIRE COVERAGE PLAN**

SCALE	SHOWN	INIT.	SHEET
DRAWN	A.G.		FC-01
DESIGNED	S.G.T.		
CHECKED	B.T.R.		REV A
DATE	JANUARY 2020		
JOB NUMBER	20180015B		

