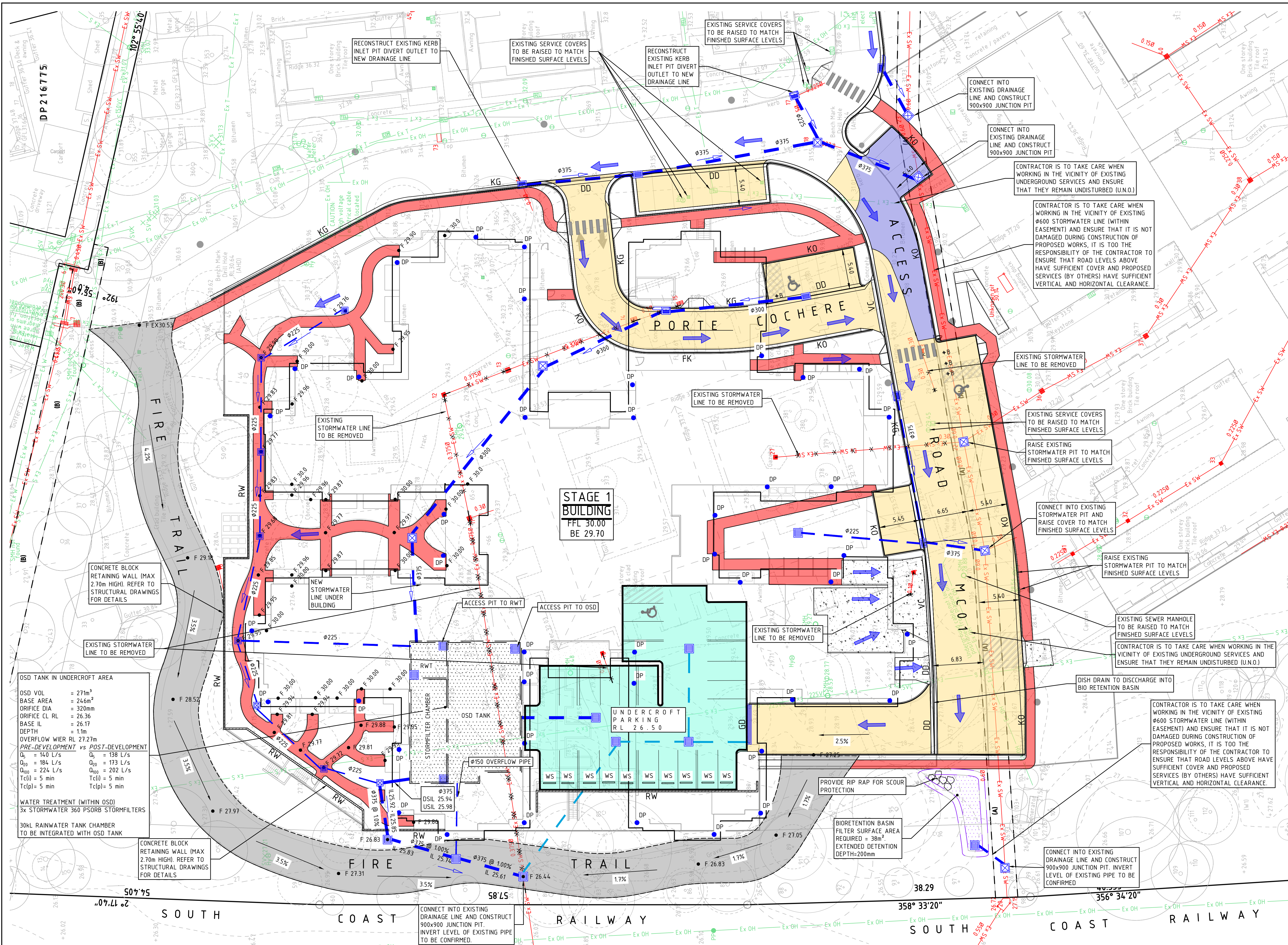




- LEGEND**
- INDICATIVE DIRECTION OF OVERLAND FLOW PATH
 - DIRECTION OF STORMWATER PIPE FLOW
 - NEW STORMWATER PIPE
 - UNDERCROFT STORMWATER PIPE
 - EXISTING STORMWATER PIPE TO BE REMOVED
 - NEW KERB INLET PIT
 - NEW GRATED INLET PIT
 - NEW JUNCTION PIT
 - UNDERGROUND OSD
 - BIORETENTION
 - DISH DRAIN
 - KERB AND GUTTER
 - KERB ONLY
 - FLUSH KERB
 - VEHICULAR CROSSING
 - PRAM RAMP
 - BOLLARD
 - FINISHED LEVEL
 - RETAINING WALL
 - WHEEL STOP
 - FIRE TRAIL PAVEMENT
 - ASPHALT RESHEET
 - NEW ASPHALT PAVEMENT
 - CONCRETE DRIVEWAY PAVEMENT
 - CONCRETE FOOTPATH
 - LIGHT DUTY ASPHALT PAVEMENT
 - EXISTING SURFACE CONTOURS
 - Ex SW EX STORMWATER DRAINAGE LINE
 - Ex T EX TELECOMMUNICATIONS LINE
 - Ex E EX ELECTRICAL LINE
 - Ex S EX SEWER LINE
 - Ex OH EX POWER
 - Ex G EX GAS LINE
 - Ex W EX WATER MAIN

FOR EXISTING STORMWATER AND SERVICE LINE DEPTHS AND INVERT LEVELS REFER DETAIL SURVEY BY DENNIS SMITH SURVEYORS REF#11011 DATE 11/11/15

CONNECT DOWNPIPE TO THE NEAREST STORMWATER PITS. HYDRAULICS TO CONFIRM.

OSD TANK IN UNDERCROFT AREA

OSD VOL = 271m³
BASE AREA = 246m²
ORIFICE DIA = 320mm
ORIFICE CL RL = 26.36
BASE L = 26.17
DEPTH = 1.1m
OVERFLOW WIER RL 27.27m

PRE-DEVELOPMENT vs POST-DEVELOPMENT

Q ₅ = 140 L/s	Q ₅ = 138 L/s
Q ₁₀ = 184 L/s	Q ₁₀ = 173 L/s
Q ₂₀ = 224 L/s	Q ₂₀ = 202 L/s
T _{cl} (i) = 5 min	T _{cl} (i) = 5 min
T _{cl} (p) = 5 min	T _{cl} (p) = 5 min

WATER TREATMENT (WITHIN OSD)
3x STORMWATER 360 PSORB STORMFILTERS

30KL RAINWATER TANK CHAMBER
TO BE INTEGRATED WITH OSD TANK

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P5	ISSUED FOR DA	05.08.19	PA	-					
P4	ISSUED FOR DA	28.02.19	PA	-					
P3	ISSUED FOR DRAFT 50% TENDER	08.02.19	PA	-					
P2	ISSUED FOR DEVELOPMENT APPLICATION	21.01.19	PA	-					
P1	ISSUED FOR DEVELOPMENT APPLICATION	23.08.18	PA	-					
Rev	Description	Date	By	App					

WATER QUALITY MEASURES HAVE SATISFIED THE FOLLOWING REDUCTIONS AS OUTLINED IN THE WOLLONGONG COUNCIL DCP

- TOTAL SUSPENDED SOLIDS 80%
- TOTAL PHOSPHORUS 55%
- TOTAL NITROGEN 40%

IN MEETING THESE TARGETS, THE FOLLOWING TREATMENT DEVICES ARE TO BE INSTALLED:

- STORMWATER 360 ENVIPODS ARE TO BE INSTALLED WITHIN ALL GRATED INLET PITS
- 3 x STORMWATER 360 PSORB STORMFILTERS WITHIN OSD
- 1 x 38m² BIORETENTION BASIN
- 30KL RAINWATER TANK CHAMBER INTEGRATED WITH OSD TANK

BONACCI

BONACCI GROUP Pty Ltd
ABN 42 000 332 345
Consulting Engineers, Structural - Civil - Infrastructure
Level 6, 37 York Street, Sydney, NSW 2000 Australia
Tel: +61 2 8247 8400 Fax: +61 2 8247 8444
sydney@bonaccigroup.com
www.bonaccigroup.com

Project Name
ANGLICARE ST LUKES RAC DAPTO NSW 2530

Drawing Title
CONCEPT STORMWATER MANAGEMENT PLAN

SCALE 1:250



DEVELOPMENT APPLICATION			
Designed	PA	Project Director Approved	Date
Drawn	PA		
Scale	AS SHOWN	Project Ref	Drawing No
Date	MAR 2017		Rev
Sheet	A1	20 10405 01	C031 P5