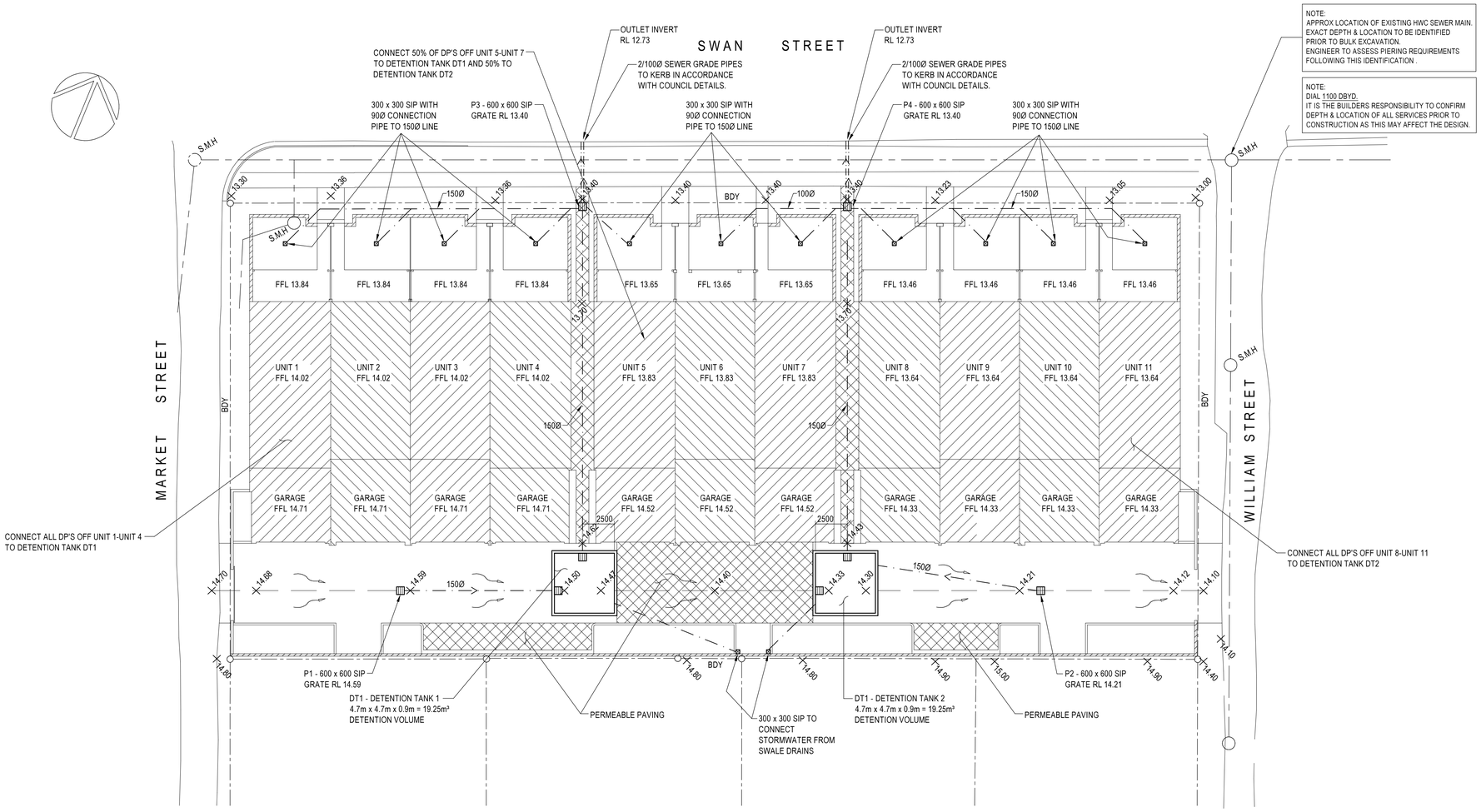


CONCEPT STORMWATER MANAGEMENT PLAN 1:200

LEGEND

FFL	PROPOSED FINISHED FLOOR LEVEL
o DP	PROPOSED DOWN PIPE - LOCATION TO BE CONFIRMED
	INDICATES DIRECTION OF SURFACE FLOW
14.30	PROPOSED FINISHED SURFACE LEVEL

STORMWATER DESIGN CALCULATIONS.

SITE AREA = 2712.5m²
ROOF AREA = 1320m²
DRIVEWAY = 544m², PERMEABLE DRIVEWAY = 160m²
UNBUILT AREA = 840m²

TOTAL IMPERVIOUS AREA = 1704m²
TOTAL PERVIOUS AREA = 1000m² = 37% OF SITE

DETENTION REQUIREMENTS

Q_5^{UNDEV} = 7.51 L/s Q_{20}^{DEV} = 94.91 L/s

T_{20}^{DEV} = 5 minutes

VOLUME = 28.22m³

Q_{100}^{UNDEV} = 11.34 L/s Q_{100}^{DEV} = 139.8 L/s

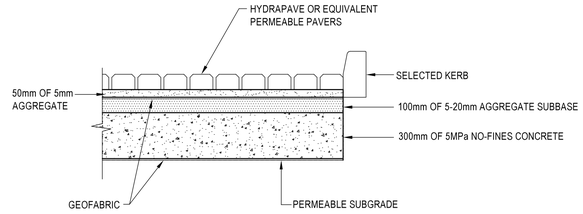
t_{100}^{DEV} = 5 minutes

VOLUME = 38.54m³

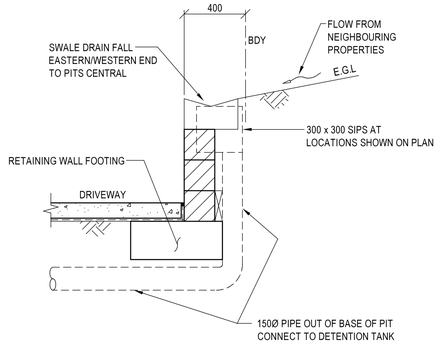
THEREFORE DETENTION VOLUME = 38.5m³

PROVIDE DETENTION VOLUME IN 2 TANKS = 19.25m³ EACH

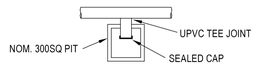
DISCHARGE FROM EACH TANK, REDUCE WITH ORFICE PLATE 51mm TO PREDEVELOPMENT FLOWS



PERMEABLE PAVING DETAIL 1:20



PROPOSED RETAINING WALL AND SWALE DRAIN ALONG SOUTHERN BOUNDARY 1:20



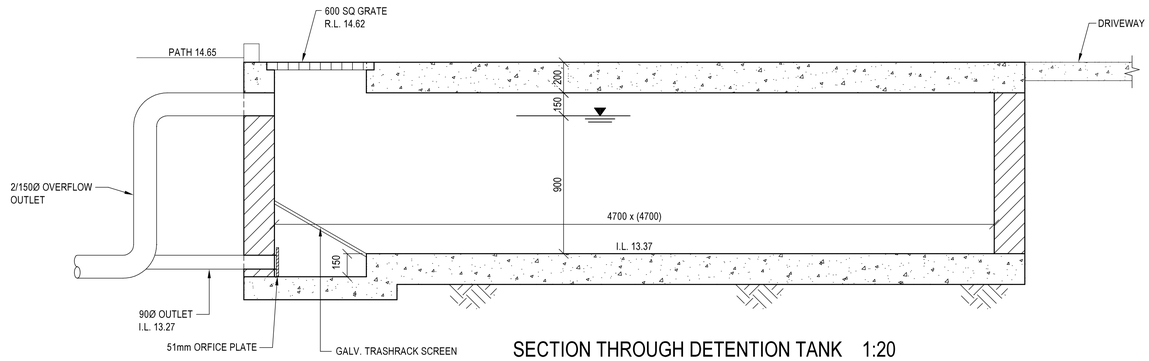
CLEANOUT PIT DETAIL N.T.S

PIT SCHEDULE

No.	SIZE	GRATE TYPE	GRATE R.L
P1	600 SQ	SIP HEAVY DUTY	RL 14.59
P2	600 SQ	SIP HEAVY DUTY	RL 14.21
P3	600 SQ	SIP HEAVY DUTY	RL 13.40
P4	600 SQ	SIP HEAVY DUTY	RL 13.40
DT1	4700 x 4700 x 900 DETENTION TANK	SIP HEAVY DUTY	RL 14.62
DT2	4700 x 4700 x 900 DETENTION TANK	SIP HEAVY DUTY	RL 14.62

PIPE SCHEDULE

No.	SIZE	OUTLET INVERT	INLET INVERT
P1-DT1	150Ø	RL 14.14	RL 14.04
P2-DT2	150Ø	RL 13.76	RL 13.66
DT1-P3	150Ø	RL 13.27	RL 12.95
DT2-P4	150Ø	RL 13.27	RL 12.95
P3-KERB	2/100Ø	RL 12.95	RL 12.73
P4-KERB	2/100Ø	RL 12.95	RL 12.73



SECTION THROUGH DETENTION TANK 1:20

STORMWATER

1. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DETAILS.
2. ALL WORKS IN ACCORDANCE WITH AS3500, COUNCIL DEVELOPMENT CONTROL PLANS, WATER AUTHORITY REQUIREMENTS AND PROPRIETARY MANUFACTURER'S RECOMMENDATIONS.
3. ALL STORMWATER PIPES TO BE 100Ø UPVC STORMWATER GRADE, U.N.O. JOINTED & INSTALLED TO MANUFACTURER'S RECOMMENDATIONS.
4. ALL STORMWATER LINES TO HAVE ALL JOINTS, INC. DP CONNECTIONS, FULLY SOLVENT WELDED (AS LINES ARE 'CHARGED' BETWEEN ROOF GUTTER & STORMWATER TANK)
5. PITS IN TRAFFICABLE AREAS TO BE FITTED WITH HEAVY DUTY GRATES
6. GUTTERS TO ACHIEVE FALLS TO DOWN PIPES IN ACCORDANCE WITH AS3500.

Issue	Drn	Des'd	Description	Date
A	A.S	C.S	DA ISSUE	22.06.21

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This drawing is not to be used for construction unless signed below.

Approved by B.E. CPEng. NER

Client GHT HOLDINGS PTY LTD

Project PROPOSED DEVELOPMENT: CONCEPT STORMWATER PLAN No. 107-117 SWAN STREET MORPETH

Job No.	Drawing No.			Issue	Size
21-097	SW1	OF	1	A	A1