

# STORMWATER PLAN

SCALE 1:200

## STORMWATER NOTES

- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.
- ALL PIPES TO HAVE A 1% MINIMUM FALL U.N.O.
- ALL DOWNPIPES (DP) TO BE SPECIFIED BY ARCHITECT. FOR EXACT LOCATION OF DOWNPIPES, REFER TO ARCHITECTURAL DRAWINGS.
- ALL PIPES TO BE UPVC U.N.O.
- ALL UPVC PIPES TO BE SEWER GRADE AND TO AS1260.
- ALL REINFORCED CONCRETE PIPES (RCP) TO BE SPIGOT AND SOCKET TYPE WITH RUBBER RINGS CLASS 2 TO AS4058.
- PITS TO BE C&D REINFORCED PRE-CAST CONCRETE PITS OR EQUIVALENT PROPRIETARY PITS.
- ALL LIDS AND GRATES TO BE PROPRIETARY HEAVY DUTY IN AREAS OF VEHICULAR TRAFFIC, LIGHT DUTY ELSEWHERE, IN ACCORDANCE WITH AS3996.
- MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOW U.N.O.
- TRAFFICABLE AREAS - 450mm, LANDSCAPED AREAS - 300mm.
- PIPES TO BE CONCRETE ENCASED IF MINIMUM COVERS CANNOT BE OBTAINED IN TRAFFICABLE AREAS, REFER TO CLAUSE 3.8 AS3500.3. ALTERNATIVELY USE UPVC SEWER GRADE PIPES UNDER ROAD AND BUILDINGS.
- PROVIDE 100φ AG DRAINS IN FILTER SOCKS TO ALL LANDSCAPED AREAS, PLANTER BEDS AND STORMWATER PIPE TRENCHES.
- ALL AG DRAINS TO BE BEDDED IN COARSE AGGREGATE AND TO BE CONNECTED TO STORMWATER SYSTEM.
- ALL PITS, DETENTION TANKS AND PROPRIETARY POLLUTION CONTROL DEVICES TO BE CLEANED OF SEDIMENT AT 3 MONTH MAXIMUM INTERVALS.
- ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
- ANY FOOTPATHS, KERB AND GUTTER OR ROADWAY DISTURBED BY WORKS TO BE REINSTATED TO CURRENT COUNCIL REQUIREMENTS.
- PROVIDE ACCESS LADDER TO TANK AS REQUIRED, REFER TO AS1657.

## PIT SCHEDULE

PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.
P1	600x600	GRATED PIT	26.67	26.05
P2	600x600	GRATED PIT	26.45	25.90
P3	600x600	GRATED PIT	25.70	25.30
P4	600x600	GRATED PIT	24.90	24.30
P5	600x600	GRATED PIT	23.85	23.25
P6	600x600	GRATED PIT	23.70	22.90

**NOTE**  
SETOUT AND ALIGNMENT OF WALLS TO BOUNDARY TO ARCHITECTS DETAILS TYPICAL

**NOTE**  
ALL SETOUT, DIMENSIONS AND RL'S TO ARCHITECTS SPECIFICATION & DETAILS

**NOTE**  
BUILDER TO PROVIDE ADEQUATE SHORING IN ORDER TO MAINTAIN STABILITY OF EXISTING NEIGHBOURING STRUCTURES AND FENCES DURING EXCAVATION WORKS TYPICAL

**NOTE**  
ALL DOWNPIPES FROM BUILDING TO CONNECT TO THE BUILDINGS SLIMLINE ABOVE GROUND WATER STORAGE TANK TYPICAL

**NOTE**  
PIT P4 TO BE A SILT TRAP PIT, PROVIDE 300 MIN EXTRA DEPTH TO PIT FROM PIPE INVERT LEVEL (IL) TYPICAL

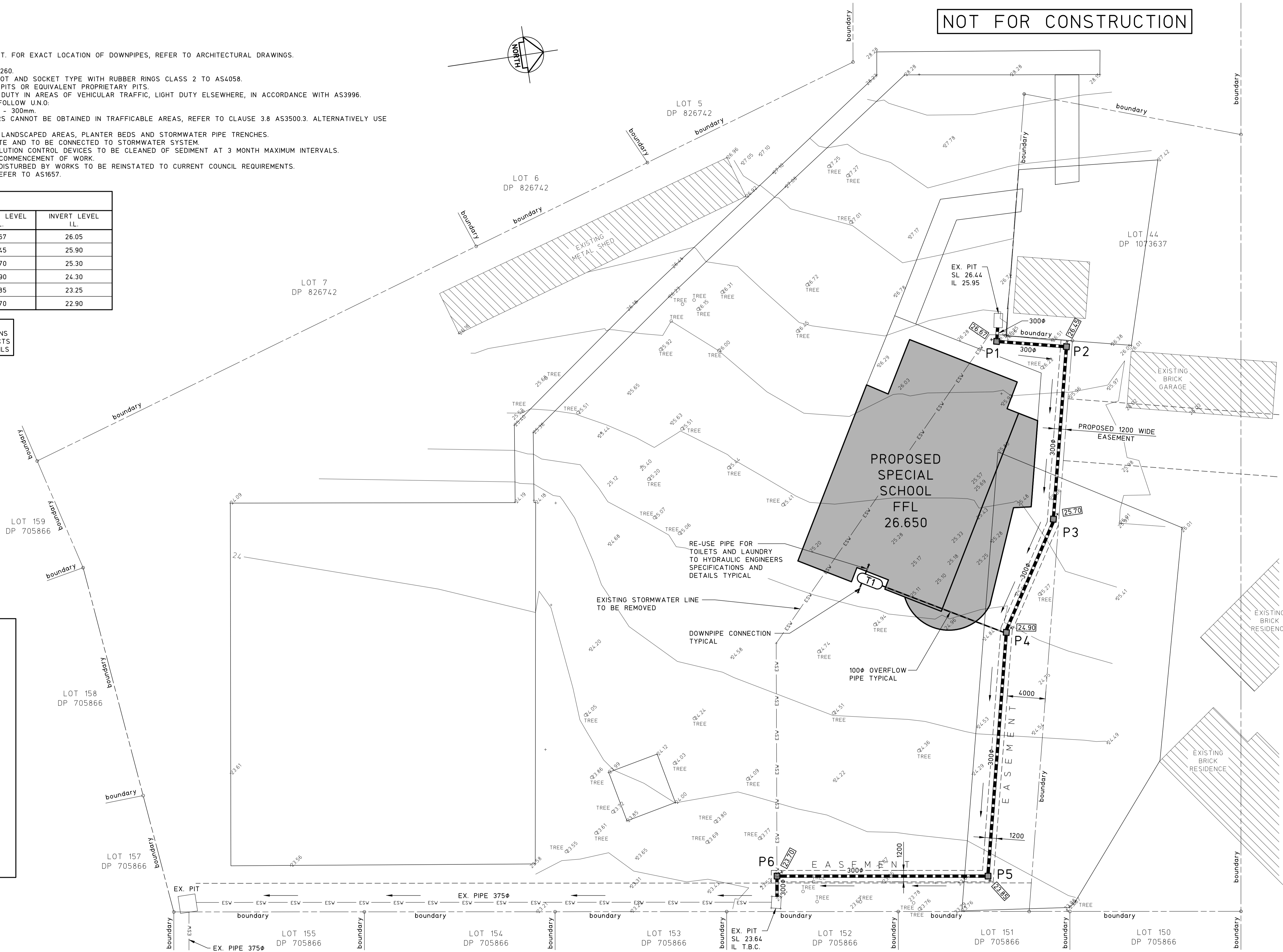
**STORMWATER CALCULATIONS**  
THE PURPOSE OF THESE CALCULATIONS IS TO DEMONSTRATE THE CAPTURE OF THE ROOF RAINWATER INTO A TANK FOR RE-USE PURPOSES.

TOTAL ROOF AREA = 498m<sup>2</sup>  
ADOPT 7m<sup>3</sup> PER 1000m<sup>2</sup>  
⇒ 3.5kL  
∴ ADOPT A MINIMUM 5kL RAINWATER TANK

## LEGEND

- DENOTES STORMWATER PIPE
- DENOTES EXISTING CONTOUR
- DENOTES EXISTING LEVELS
- DENOTES DESIGN SPOT LEVELS
- DENOTES DIRECTION OF SURFACE FLOWS
- DENOTES KINGSPAN 5000 LITRE SLIMLINE WATER STORAGE TANK SLIMLINE WATER STORAGE TANK STORING ROOF RAINWATER TO MANUFACTURERS SPECIFICATION. TANK SHALL BE FITTED WITH A FIRST FLUSH SYSTEM, PUMP TO SUPPLY TOILETS AND LAUNDRY AND A DIVERSION SWITCH TO MAINS SUPPLY ON TANK BEING EMPTY. BACK FLOW PREVENTION TO MAINS WATER SHALL BE PROVIDED. TANK TO OVERFLOW TO STORMWATER SYSTEM.

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ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE
2	REVISED DEVELOPMENT APPLICATION	7.8.20			
1	DEVELOPMENT APPLICATION	23.7.20			
0	CLIENT REVIEW	15.7.20			

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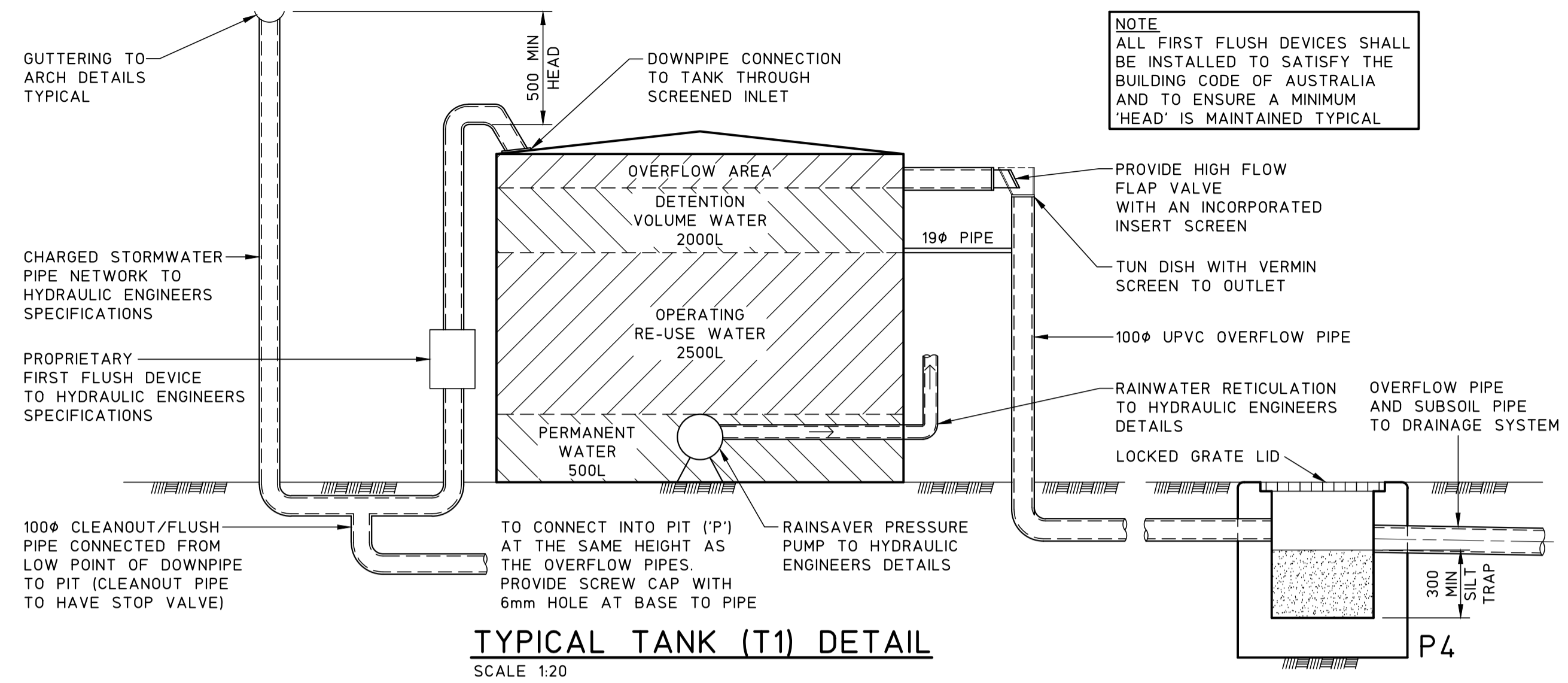
CLIENT  
**ARISE CHRISTIAN COLLEGE**  
  
TITLE  
**STORMWATER PLAN**

PROJECT  
**PROPOSED SPECIAL LEARNING CENTRE  
AT; LOT 43, DP 1073637,  
75-81 CHELSFORD DRIVE,  
METFORD**


**DO NOT SCALE DRAWING**

DRAWN	ENGINEER	No in SET	SHEET
J.D.L.	M.S.	4	A1
SCALES	JOB No	DRAWING No	ISSUE
1:200	200426	C01	2

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



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2 REVISED DEVELOPMENT APPLICATION 7.8.20								SCALES 1:20		JOB No 200426		DRAWING No C02		ISSUE 2	
1 DEVELOPMENT APPLICATION 23.7.20															
0 CLIENT REVIEW 15.7.20															
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