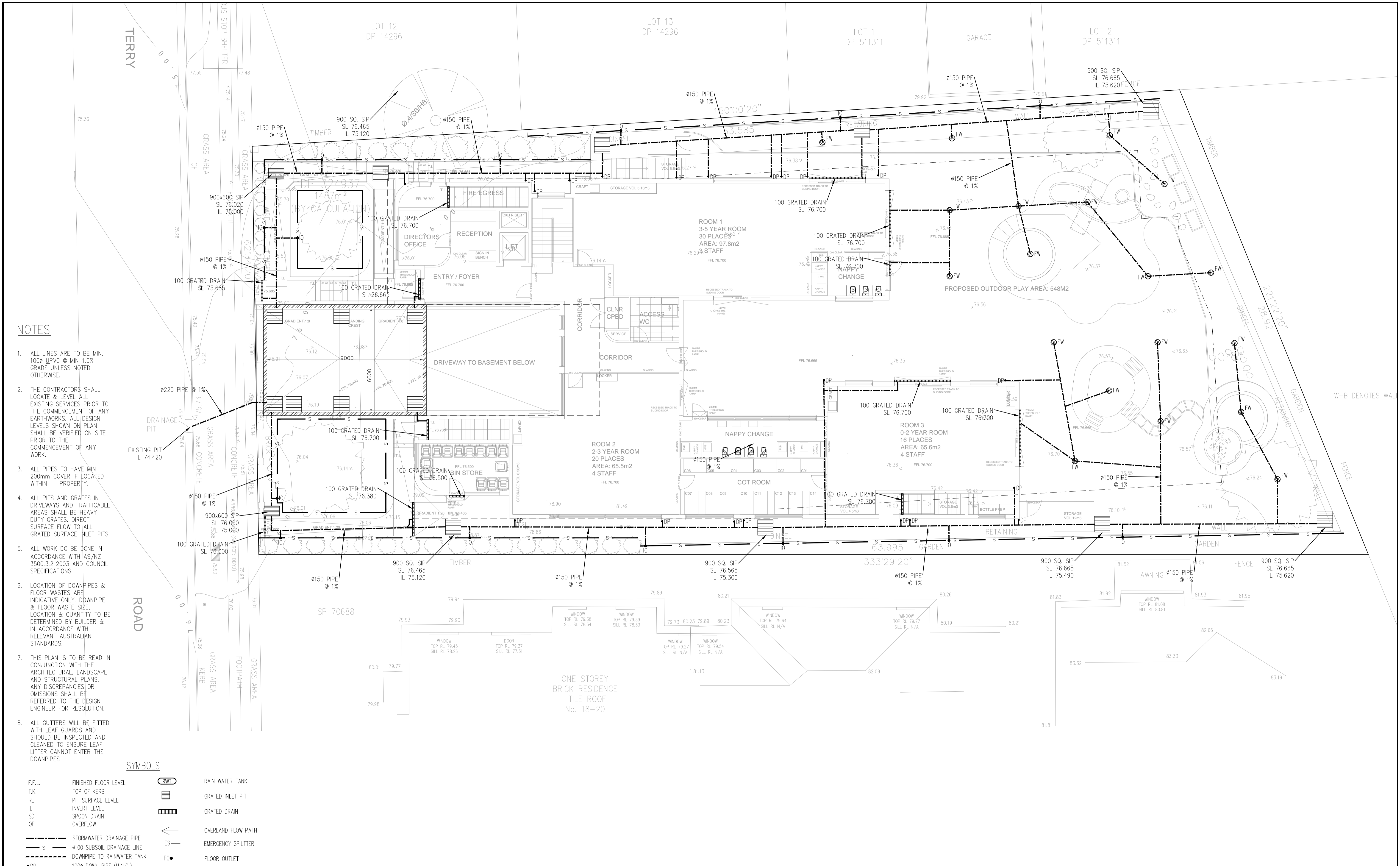


- NOTES**
- ALL LINES ARE TO BE MIN. 100Ø UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
 - THE CONTRACTORS SHALL LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
 - ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
 - ALL PITS AND GRATINGS IN DRIVEWAYS AND TRAFFICABLE AREAS SHALL BE HEAVY DUTY GRATINGS. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
 - ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:2003 AND COUNCIL SPECIFICATIONS.
 - LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
 - THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS, ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
 - ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES

- SYMBOLS**
- | | | | |
|--------|--------------------------|--|-----------------------------------|
| F.F.L. | FINISHED FLOOR LEVEL | | RAIN WATER TANK |
| T.K. | TOP OF KERB | | GRATED INLET PIT |
| RL | PIT SURFACE LEVEL | | GRATED DRAIN |
| IL | INVERT LEVEL | | OVERLAND FLOW PATH |
| SD | SPOON DRAIN | | EMERGENCY SPLITTER |
| OF | OVERFLOW | | FLOOR OUTLET |
| | STORMWATER DRAINAGE PIPE | | VERTICAL DROP |
| | 100Ø DOWN PIPE (U.N.O.) | | EXISTING 100Ø DOWN PIPE (U.N.O.) |
| | 100Ø SPREADER | | EXISTING STORMWATER DRAINAGE PIPE |
| | INSPECTION EYE | | |
| | MASONRY RETAINING WALL | | |
| | FLOOR WASTE 150Ø | | |

BASEMENT STORMWATER DRAINAGE PLAN
SCALE 1:100

NO.	AMENDMENTS	DATE	DRAWING TITLE: BASEMENT DRAINAGE PLAN ADDRESS: 16 TERRY ROAD, EASTWOOD	M/ 0404 719 932 E/ info@structaconsulting.com A/ PO Box 920, Concord 2137		SCALE AT A3: 1:100
	1	ISSUED FOR APPROVAL		05/12/23		DRAWN: PB DESIGNED: PB



NOTES

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SYMBOLS

F.F.L.	FINISHED FLOOR LEVEL		RAIN WATER TANK
T.K.	TOP OF KERB		GRATED INLET PIT
RL	PIT SURFACE LEVEL		GRATED DRAIN
IL	INVERT LEVEL		OVERLAND FLOW PATH
SD	SPOON DRAIN		EMERGENCY SPLITTER
OF	OVERFLOW		FLOOR OUTLET
	STORMWATER DRAINAGE PIPE		VERTICAL DROP
	100# DOWN PIPE (U.N.O.)		EXISTING 100# DOWN PIPE (U.N.O.)
	100# SPREADER		EXISTING STORMWATER DRAINAGE PIPE
	INSPECTION EYE		
	MASONRY RETAINING WALL		
	FLOOR WASTE 150#		

SITE STORMWATER DRAINAGE PLAN

SCALE 1:100

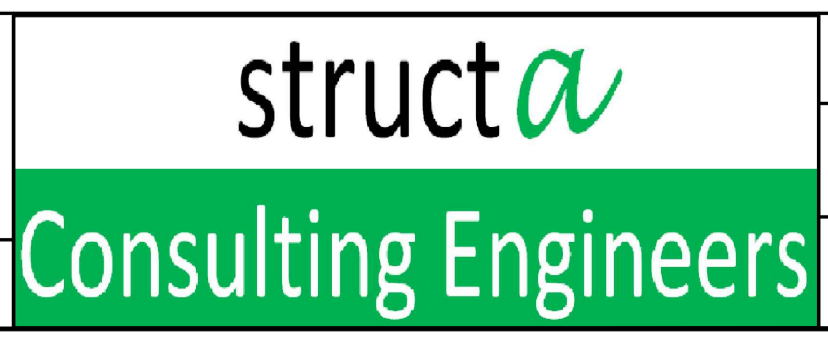
NO.	AMENDMENTS	DATE
1	ISSUED FOR APPROVAL	05/12/23

DRAWING TITLE:
SITE STORMWATER DRAINAGE PLAN

ADDRESS:
16 TERRY ROAD, EASTWOOD

M/ 0404 719 932
E/ info@structaconsulting.com
A/ PO Box 920, Concord 2137

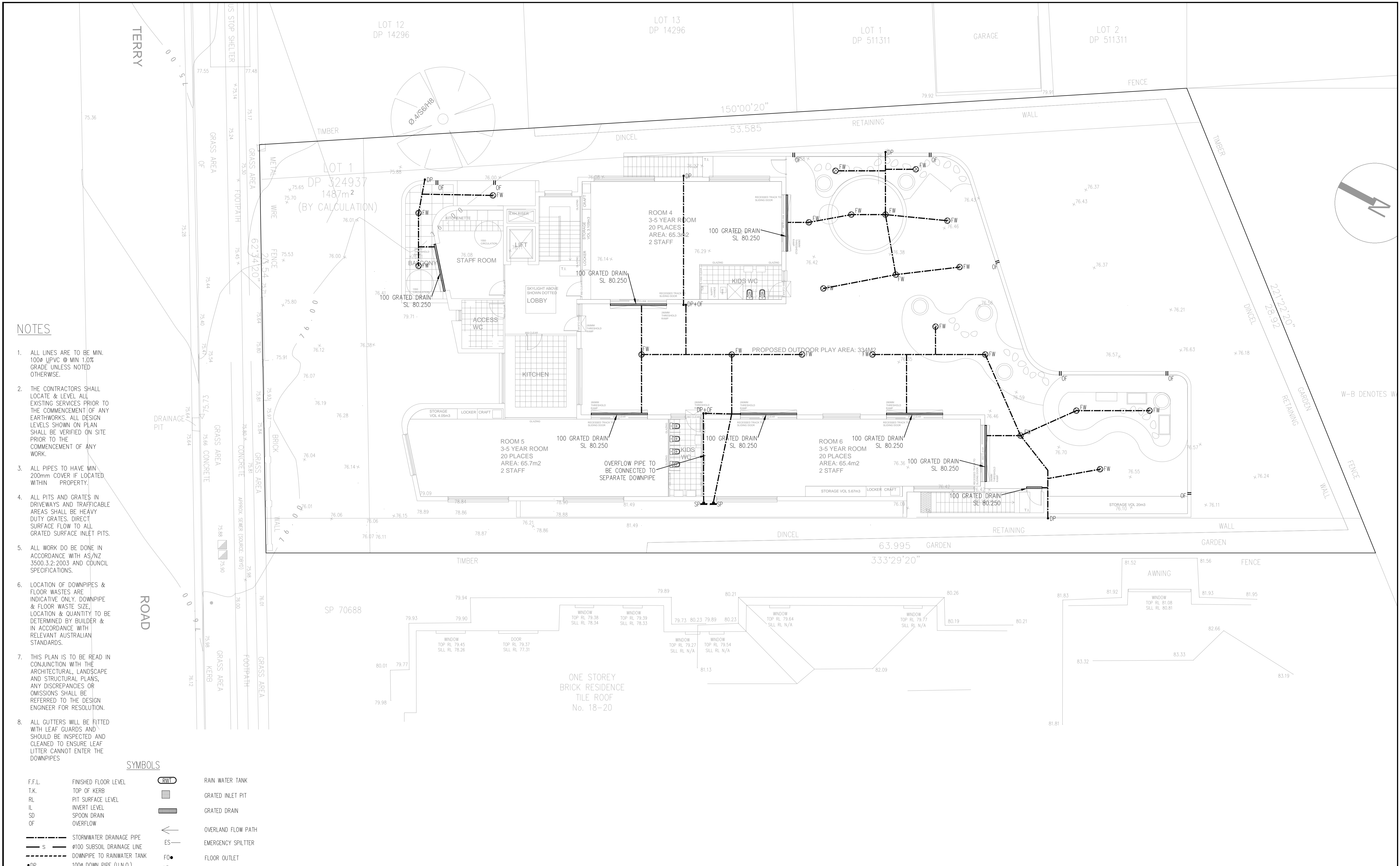
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SCALE AT A3: 1:100

JOB REF NO.
C07417

DRAWING NO.
H02

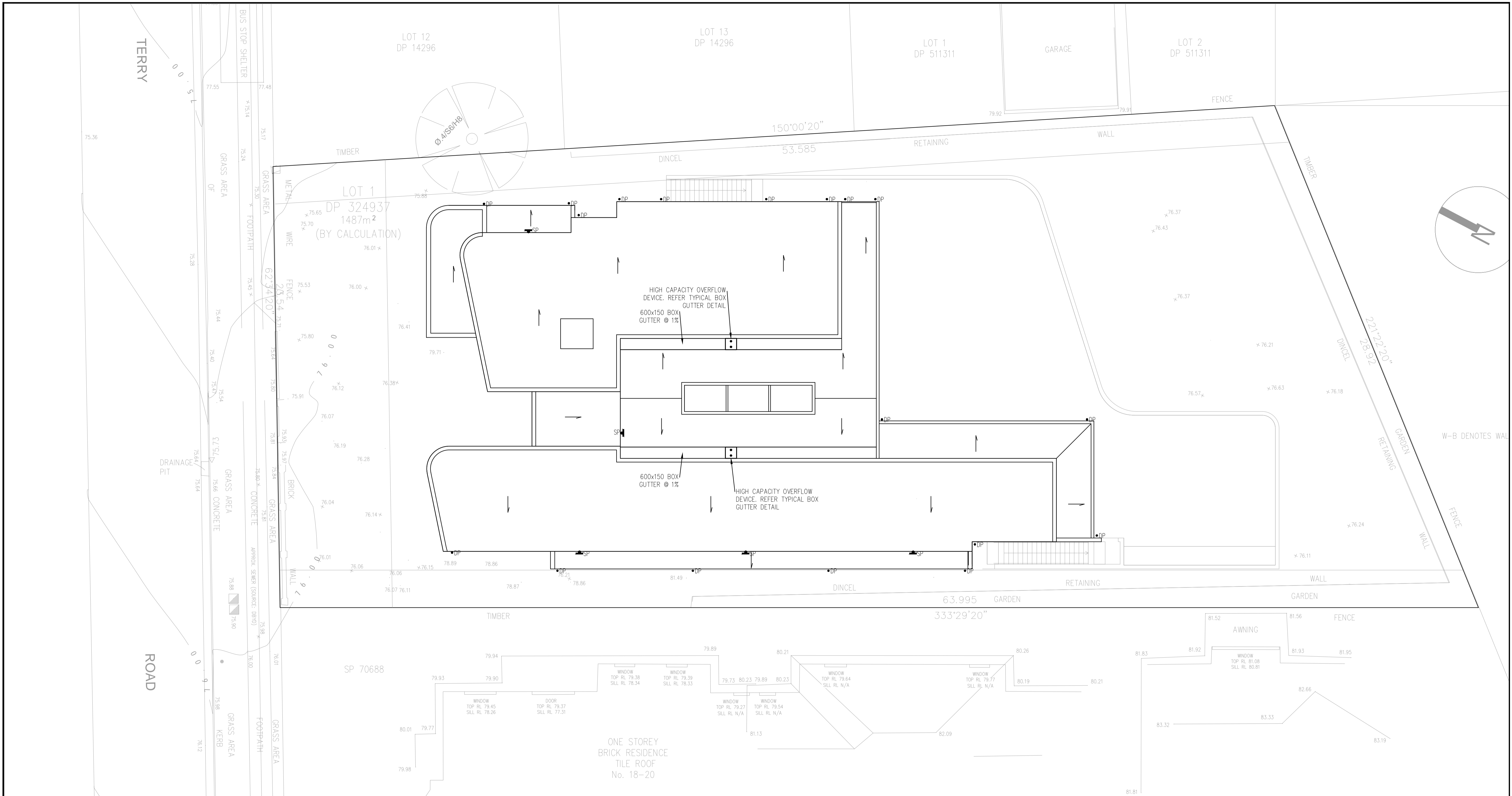


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- SYMBOLS**
- | | | | |
|--------|----------------------------|--|-----------------------------------|
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| T.K. | TOP OF KERB | | GRATED INLET PIT |
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| IL | INVERT LEVEL | | OVERLAND FLOW PATH |
| SD | SPOON DRAIN | | EMERGENCY SPLITTER |
| OF | OVERFLOW | | FLOOR OUTLET |
| | STORMWATER DRAINAGE PIPE | | VERTICAL DROP |
| | 100 SUBSOIL DRAINAGE LINE | | EXISTING 100# DOWN PIPE (U.N.O.) |
| | DOWNPIPE TO RAINWATER TANK | | EXISTING STORMWATER DRAINAGE PIPE |
| | 100# DOWN PIPE (U.N.O.) | | |
| | 100# SPREADER | | |
| | INSPECTION EYE | | |
| | MASONRY RETAINING WALL | | |
| | FLOOR WASTE 150# | | |

FIRST FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

NO.	AMENDMENTS	DATE	DRAWING TITLE: FIRST FLOOR STORMWATER DRAINAGE PLAN ADDRESS: 16 TERRY ROAD, EASTWOOD	M/ 0404 719 932 E/ info@structaconsulting.com A/ PO Box 920, Concord 2137		SCALE AT A3: 1:100
	1	ISSUED FOR APPROVAL		05/12/23		DRAWN: PB DESIGNED: PB
						DRAWING NO. H03



ROOF STORMWATER DRAINAGE PLAN

SCALE 1:100

NO.	AMENDMENTS	DATE
1	ISSUED FOR APPROVAL	05/12/23

DRAWING TITLE:
 ROOF STORMWATER DRAINAGE PLAN

ADDRESS:
 16 TERRY ROAD, EASTWOOD

M/ 0404 719 932
 E/ info@structaconsulting.com
 A/ PO Box 920, Concord 2137

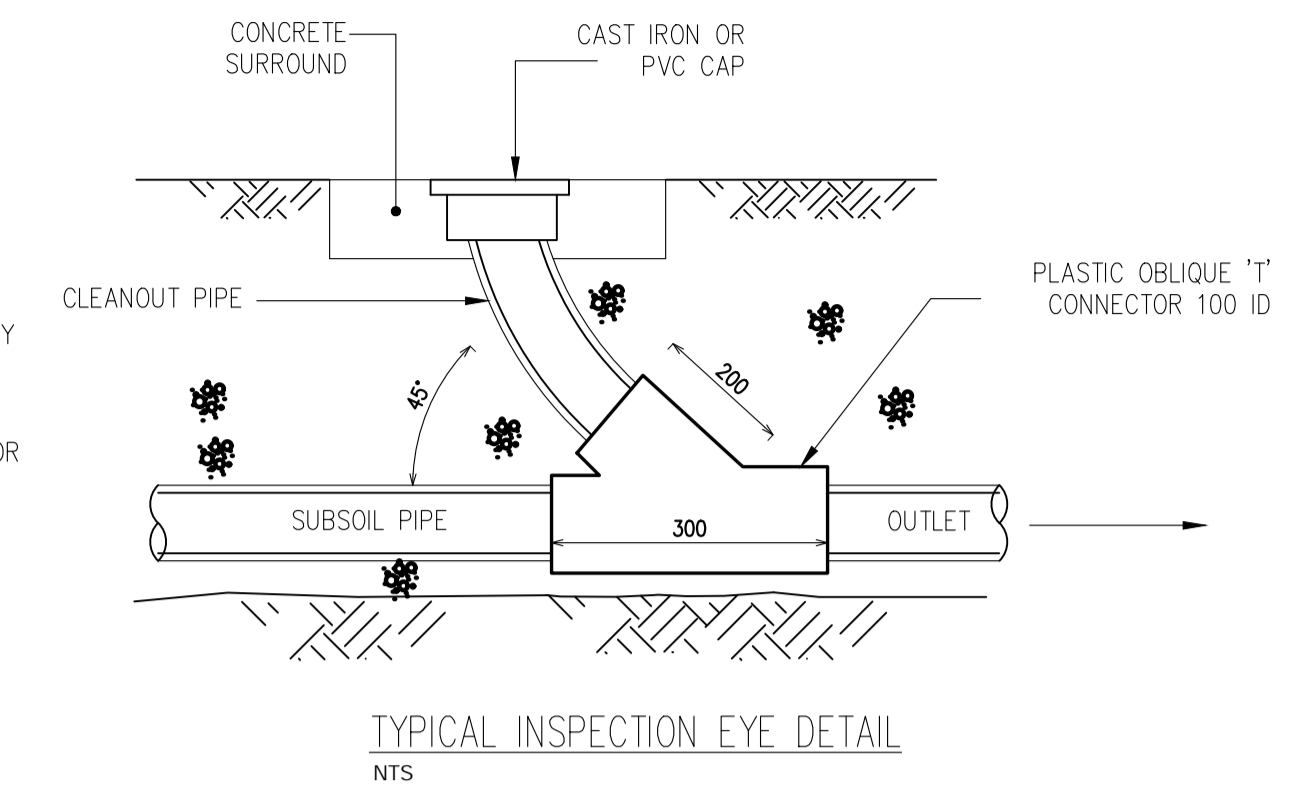
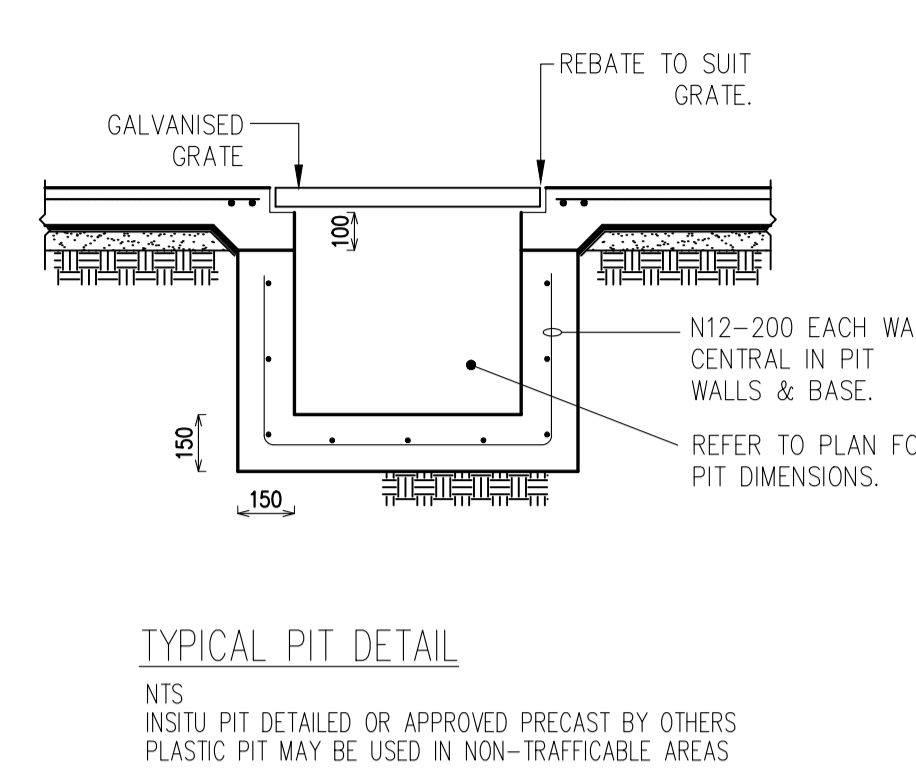
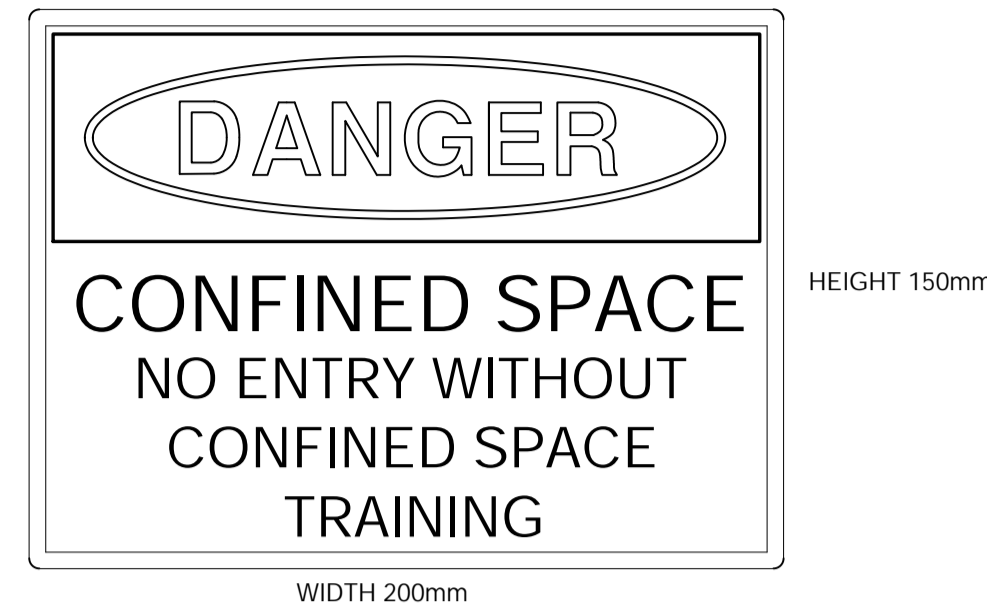
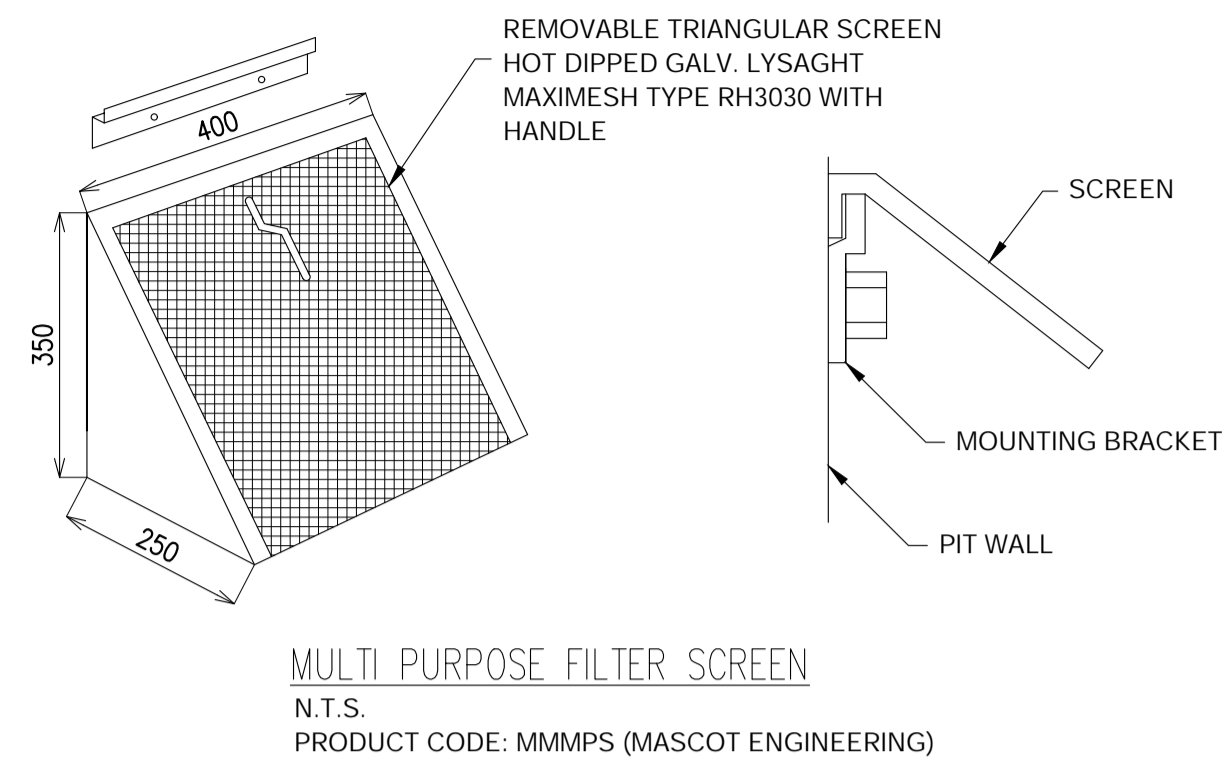
DRAWN: PB DESIGNED: PB



SCALE AT A3: 1:100

JOB REF NO.
 C07417

DRAWING NO.
 H04



STANDARD PUMP OUT DESIGN NOTES

THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD, THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AN A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE

BASEMENT PUMP CALCULATION)

SUMP SIZE AND PUMP SIZE BASE ON 100 YEAR 2 HOURS STORM INTENSITY IS 38.00 mm/hr, AREA DRAINING TOWARDS SUMP IS 83.2m²
 $Q = CIA/3600 = 2.0 \times 38.0 \times 83.2 = 6.324m^3$

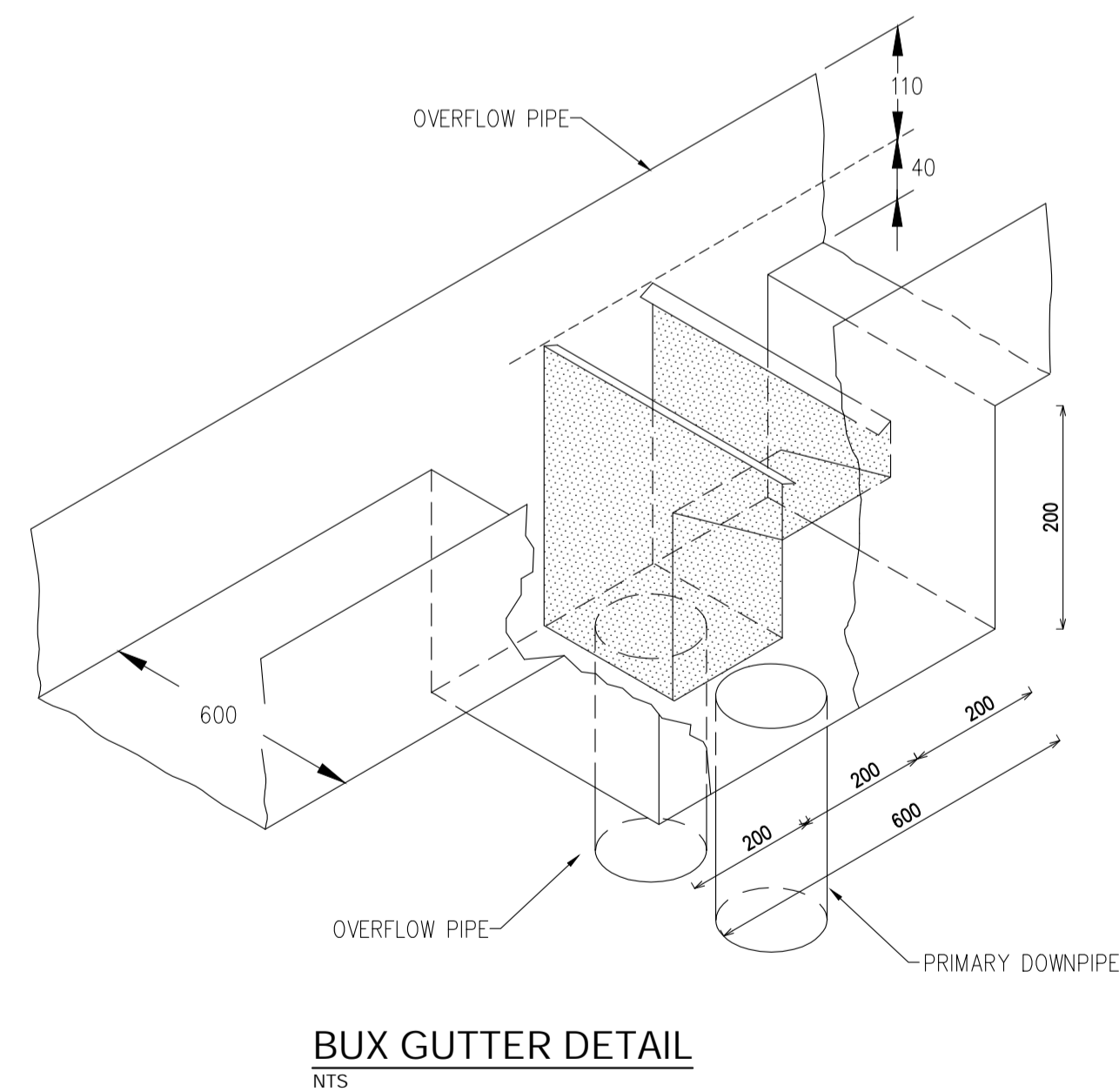
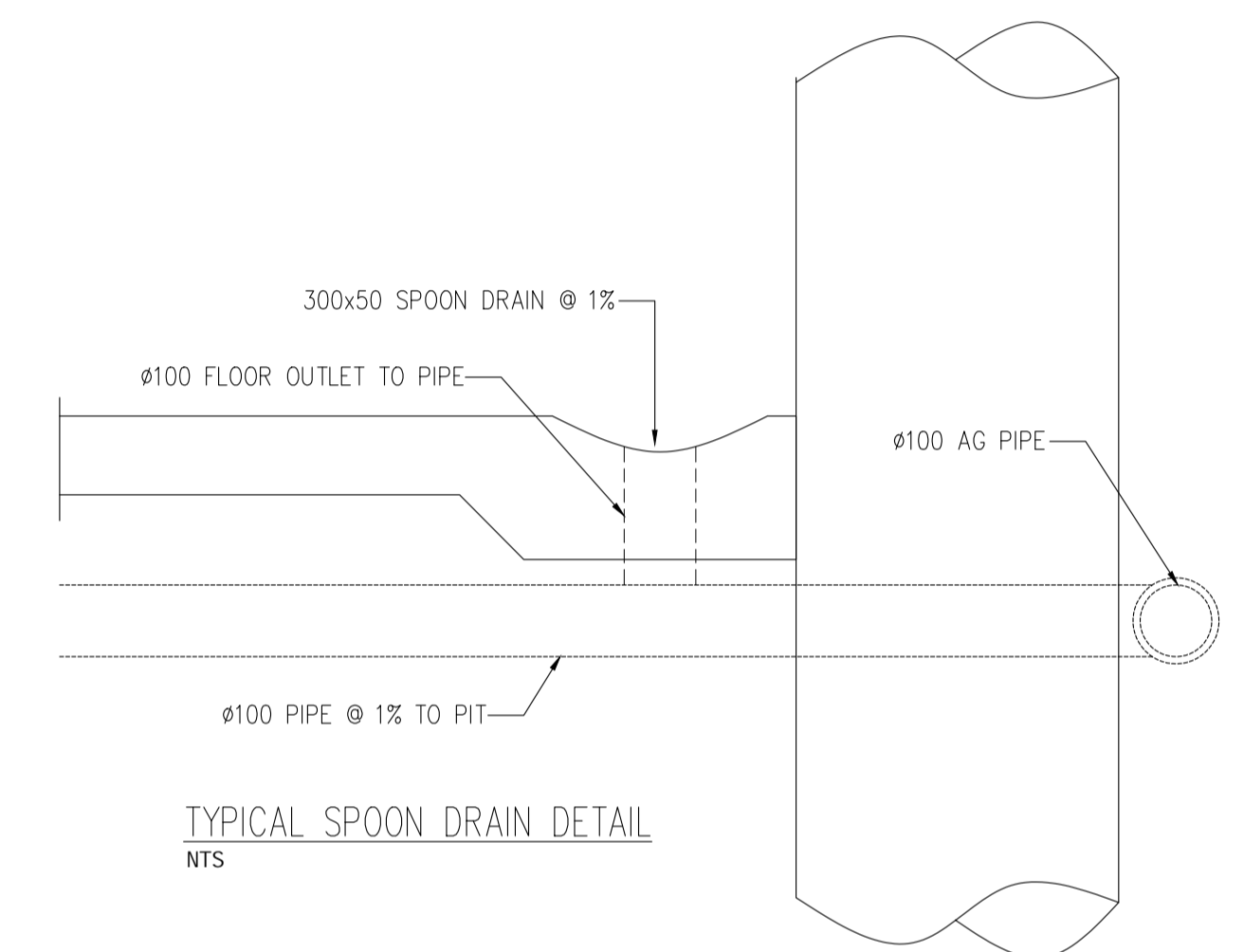
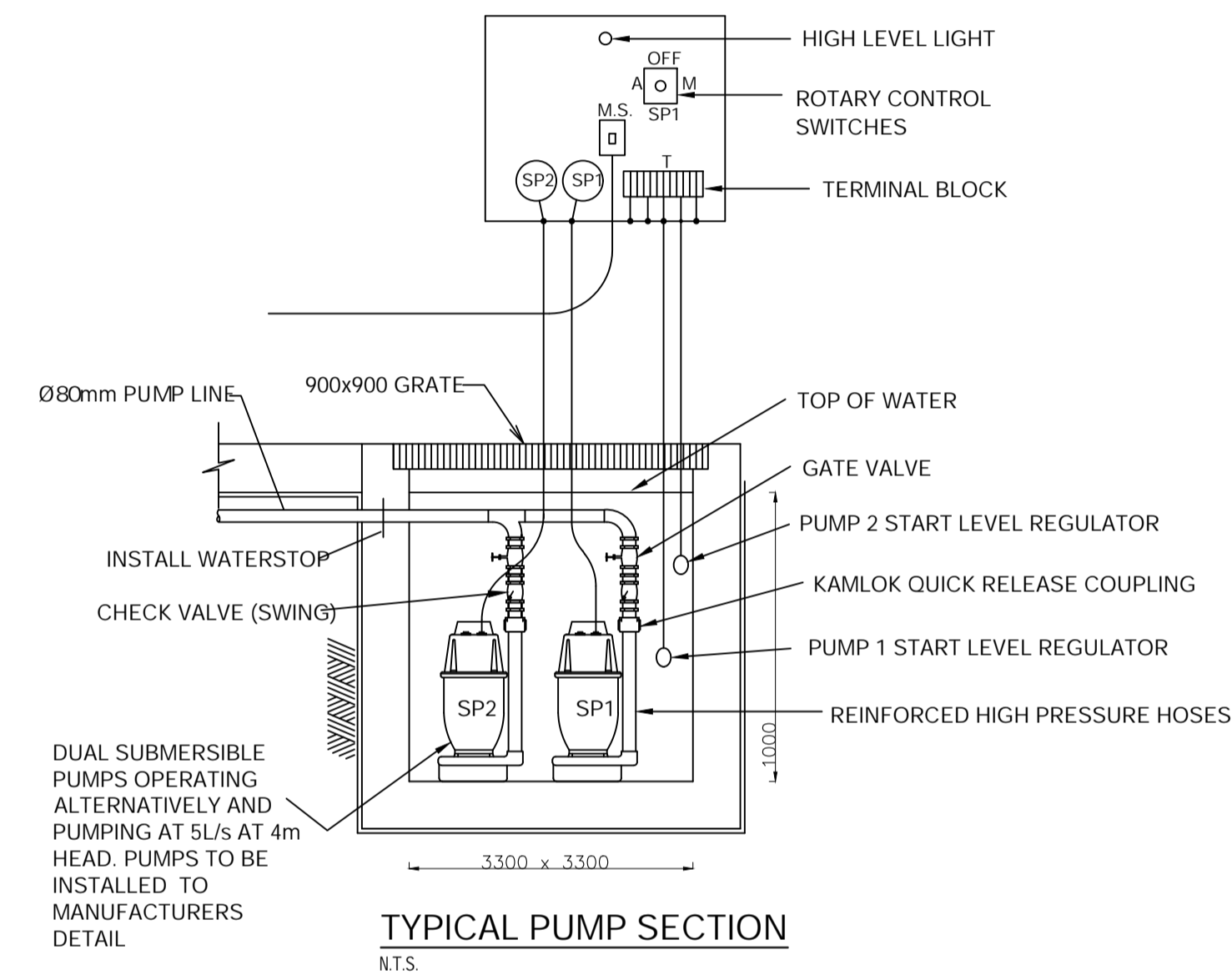
BASEMENT SEEPAGE RATE - 0.002 L/s/m²
 BASEMENT PERIMETER - 126m
 AVERAGE WALL RETAINED HEIGHT - 2.7m
 SEEPAGE AREA - 340.2m²
 SEEPAGE RATE - 0.3402L/s
 SEEPAGE VOLUME - 4.9m³

MINIMUM TANK STORAGE - 11.224m³

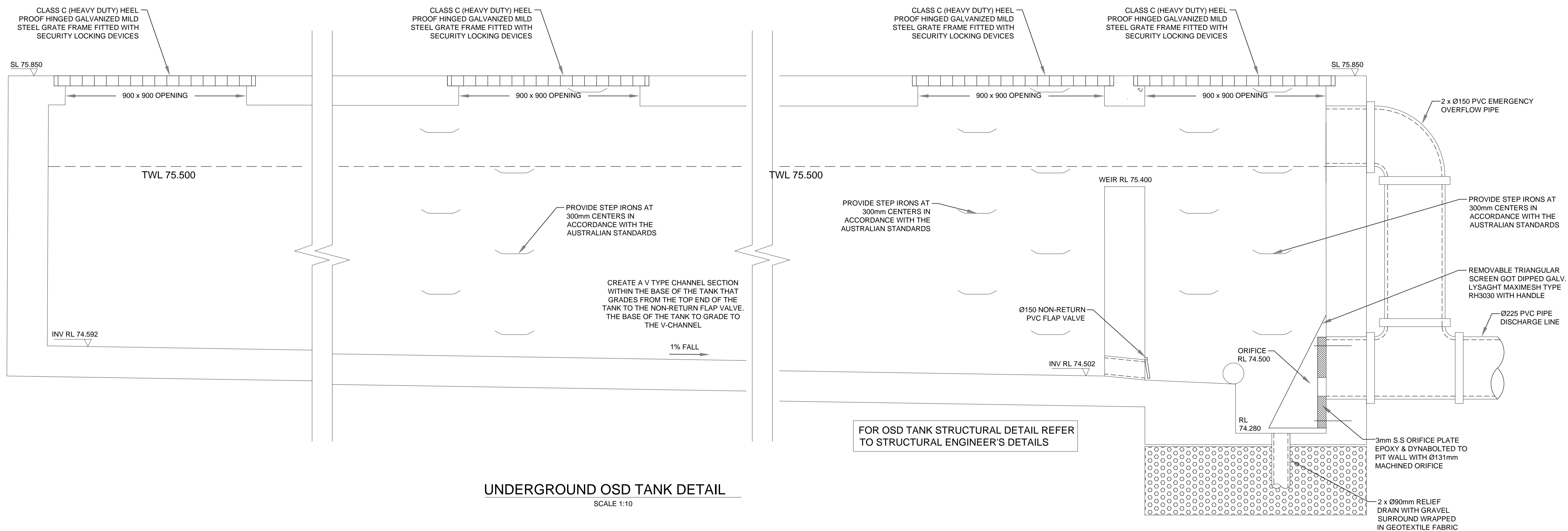
STORAGE PROVIDED 3300x3300x1000=11560litres

BASED ON 100YR 5MIN. STORM = 214mm/hr
 $Q = CIA/3600 = 1.0 \times 214 \times 83.2/3600 + 0.3402 = 5.286L/s$ OR 318L/min

USE DUAL KS30 PUMPS
 TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO ACT ALTERNATIVELY AT 4m HEAD



NO.	AMENDMENTS	DATE	DRAWING TITLE:	M/ 0404 719 932	structa Consulting Engineers	SCALE AT A3: 1:100
1	ISSUED FOR APPROVAL	05/12/23	STORMWATER DRAINAGE DETAILS	E/ info@structaconsulting.com		JOB REF NO. C07417
			ADDRESS: 16 TERRY ROAD, EASTWOOD	A/ PO Box 920, Concord 2137	DRAWING NO. H05	
				DRAWN: PB	DESIGNED: PB	



NO.	AMENDMENTS	DATE
1	ISSUED FOR APPROVAL	05/12/23

DRAWING TITLE:
OSD SECTION
ADDRESS:
16 TERRY ROAD, EASTWOOD

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E/ info@structaconsulting.com
A/ PO Box 920, Concord 2137
DRAWN: PB DESIGNED: PB



SCALE AT A3: 1:100
JOB REF NO.
C07417
DRAWING NO.
H06

EROSION CONTROL NOTES

1. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANAGING URBAN STORMWATER, 3rd EDITION PRODUCED BY THE NSW DEPARTMENT OF HOUSING.
2. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
3. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
4. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER.
5. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.

TERRY ROAD

PROVIDE STABILIZED SITE ACCESS

PROVIDE TAP AND HOSE BEHIND FENCELINE. ALL TRUCK TIRES MUST BE WASHED DOWN BEFORE DEPARTING

TEMPORARY SITE TOILET

DRAINAGE PIT

CONCRETE

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

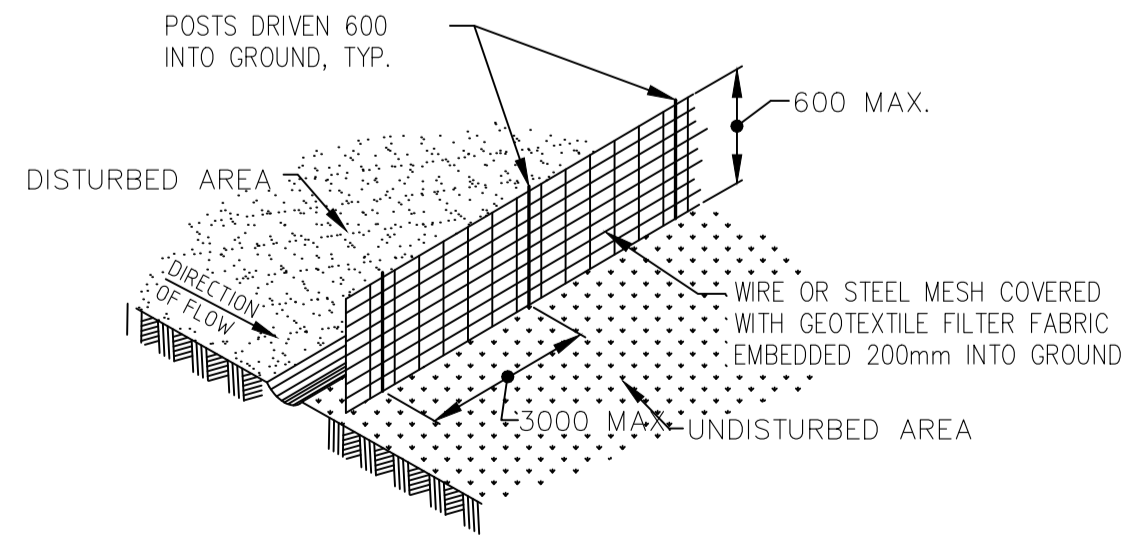
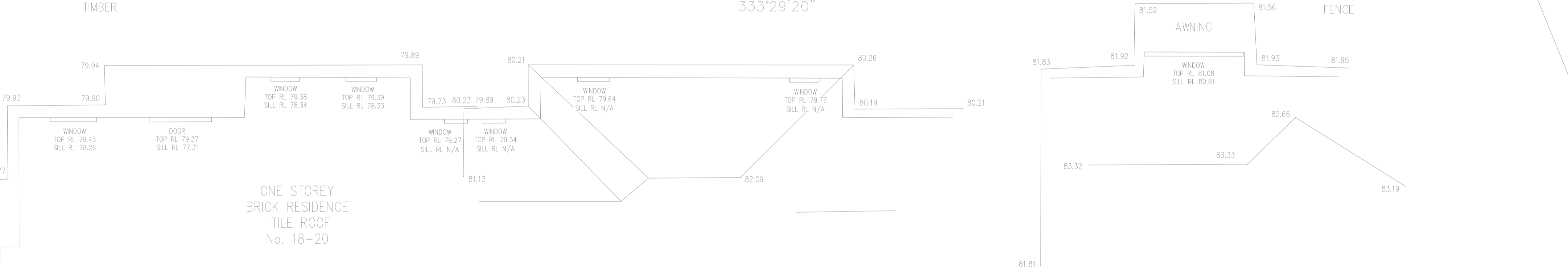
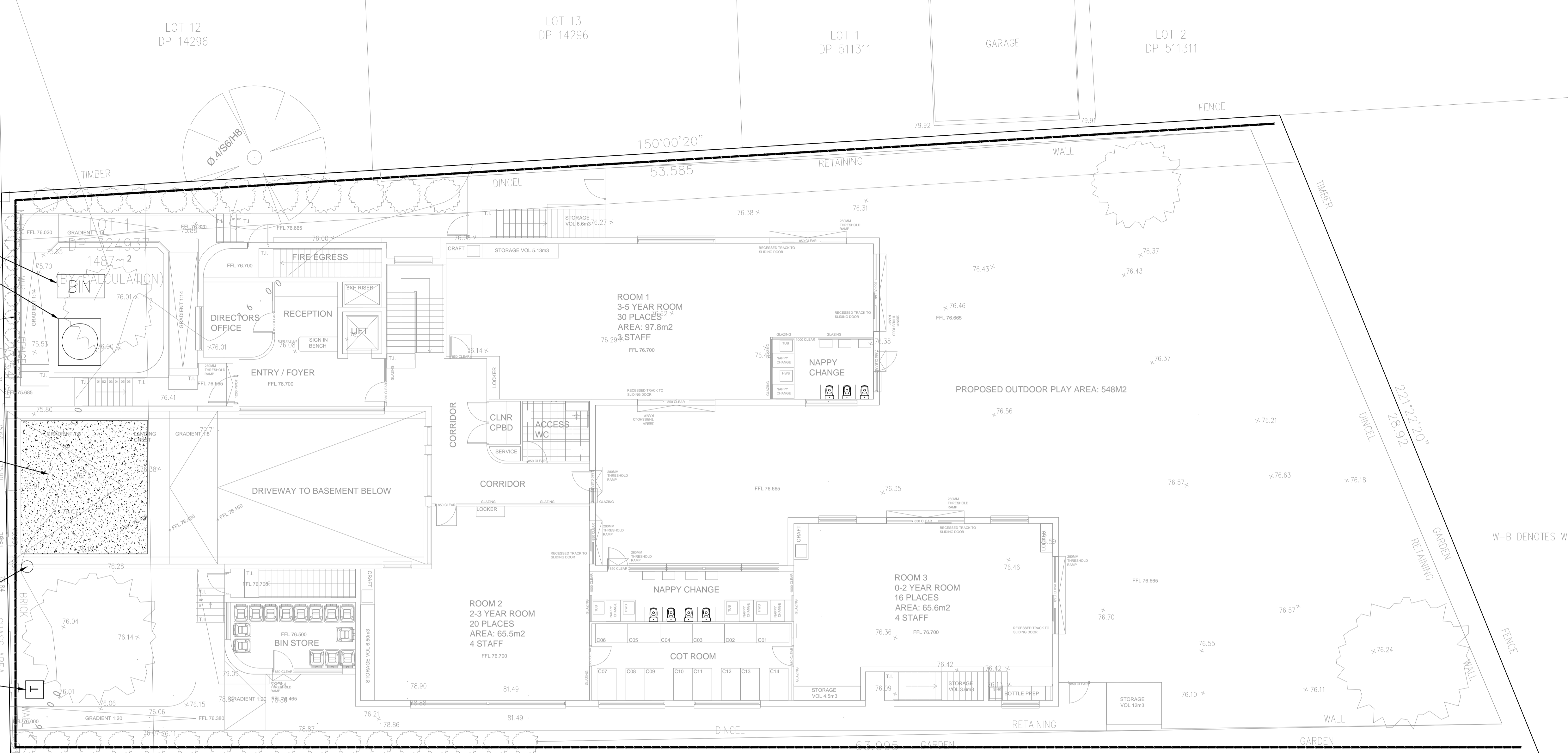
GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA

GRASS AREA



SEDIMENT FENCE DETAIL
N.T.S.
SEDIMENT FENCE MAY BE REPLACED WITH BOUNDARY FENCING WITH SHADE CLOTH

EROSION AND SEDIMENT CONTROL PLAN
SCALE 1:100

NO.	AMENDMENTS	DATE
1	ISSUED FOR APPROVAL	05/12/23

DRAWING TITLE:
SEDIMENT AND EROSION CONTROL PLAN

ADDRESS:
16 TERRY ROAD, EASTWOOD

M/ 0404 719 932
E/ info@structaconsulting.com
A/ PO Box 920, Concord 2137

DRAWN: PB DESIGNED: PB



SCALE AT A3: 1:100
JOB REF NO. C07417
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