

PROPOSED DEVELOPMENT

65-71 KERRS ROAD, LIDCOMBE

STORMWATER PLANS

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
- G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. REFER ARCHITECT'S DRAWINGS FOR ALL DIMENSIONS.
- G3. REFER ANY DISCREPANCY TO THE ENGINEER/ARCHITECT.
- G4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE APPROPRIATE SAA SPECIFICATIONS OR CODE AND WITH THE REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY.
- G5. THE ALIGNMENT AND LEVEL OF ALL SERVICES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- G6. NO WORKS ARE TO COMMENCE UNTIL THE REQUIRED TREE REMOVAL PERMITS HAVE BEEN GRANTED BY RELEVANT LOCAL AUTHORITY, AND THE APPROPRIATE NOTICE OF INTENTION TO COMMENCE GIVEN.
- G7. ALL SERVICES, OR CONDUITS FOR SERVICING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.
- G8. SUBSOIL DRAINAGE, COMPRISING 100 AGRICULTURE PIPE IN GEO-STOCKING TO BE PLACED AS SHOWN AND AS MAY BE DIRECTED BY THE SUPERINTENDENT. SUBSOIL DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- G9. NO WORK IS PERMITTED WITHIN ADJOINING PROPERTIES WITHOUT WRITTEN PERMISSION FROM THE OWNERS OR RESPONSIBLE AUTHORITY.

DRAINAGE NOTES

- D1. ALL DRAINAGE OUTLET LEVELS SHALL BE CONFIRMED ON SITE, PRIOR TO CONSTRUCTION COMMENCING.
- D2. ALL PIPES WITHIN THE PROPERTY TO BE MIN. 100 DIA UPVC @ 1% MIN. GRADE, UNO.
- D3. ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED EQUIVALENT GRATES:
- LIGHT DUTY FOR LANDSCAPED AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC
- D4. PITS WITHIN THE PROPERTY MAY BE CONSTRUCTED AS:
1) PRECAST STORMWATER PITS
2) CAST INSITU MASS CONCRETE
3) CEMENT RENDERED 230mm BRICKWORK
SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- D5. ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE PROPERTY. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER. ALL INVERT LEVELS ARE TO BE ACHIEVED.
- D6. ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
- D7. ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING BOLTS AND CONTINUOUS HINGE.
- D8. PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH.
- D9. TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT PLATE VIBRATOR.
- D10. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE CONNECTED TO THE HED PIT, UNO.
- D11. DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100 COLORBOND/ZINCALUME STEEL, UNO.
- D12. COLORBOND OR ZINCALUME STEEL BOX GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP.
- D13. EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL, UNO.
- D14. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.

EARTHWORKS NOTES

- E1. THE EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
- E2. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.
- E3. SUBGRADE SHALL BE COMPACTED UNTIL A DRY DENSITY HAS BEEN ACHIEVED OF NOT LESS THAN 100% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AS 1289 TESTS E.1.1. OR E.1.2.
- E4. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL.
- E5. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 150 LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM.
- E6. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.
- E7. STORMWATER MUST NOT BE CONCENTRATED ON TO AN ADJACENT PROPERTY.
- E8. AT NO TIME DURING OR AFTER CONSTRUCTION IS STORMWATER TO BE PONDED ON ADJOINING PROPERTIES.
- E9. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING PLATFORM.
- E10. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE SITE WORKS AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.
- E11. ALL SURFACE CATCH DRAINS SHALL BE GRADED AT 1% (1 IN 100) MINIMUM. THE GROUND SHALL GRADE AWAY FROM ANY DWELLING AT 5% (1 IN 20) FOR THE FIRST METRE THEN AT 2.5% (1 IN 40).
- E12. WHERE A CUT FILL PLATFORM IS USED THERE SHALL BE A MINIMUM BERM 1000 WIDE TO THE PERIMETER OF THE SITE WORKS WHICH SHALL BE SUPPORTED BY BATTERS OF 3:1 IN FILL.
- E13. ANY VERTICAL OR NEAR VERTICAL PERMANENT EXCAVATION (CUT) DEEPER THAN 600 IN MATERIAL OTHER THAN ROCK SHALL BE ADEQUATELY RETAINED OR BATTERED AT A MINIMUM OF 3:1.
- E14. WHERE BATTERS CANNOT BE PROVIDED TO SUPPORT THE CUT OR FILL, THEY SHALL BE ADEQUATELY RETAINED.
- E15. RETAINING WALLS ARE TO BE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

CONCRETE PAVEMENT

- C1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- C2. PROVIDE JOINTING AT MINIMUM 6000 MAX. INTERVALS OR AS OTHERWISE SPECIFIED IN THE DRAWINGS.
- C3. CONCRETE SHALL COMPRISE A MIN. COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION, UNO.
- C4. ANY SUB-BASE MATERIAL SHALL BE COMPACTED AS OUTLINED IN EARTHWORKS.
- C5. CONCRETE KERB AND GUTTER SHALL COMPRISE A MINIMUM COMPRESSIVE STRENGTH OF 28MPa, UNO.
- C6. CONCRETE WORKS ARE TO BE CURED BY ONE OF THE FOLLOWING MEANS:
i) WETTING TWICE DAILY FOR THE FIRST THREE DAYS;
ii) USING AN APPROVED CURING COMPOUND FOR A MINIMUM OF 7 DAYS COMMENCING IMMEDIATELY AFTER POURING.

FLEXIBLE PAVEMENT NOTES

- F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER THE RELEVANT COUNCIL AUTHORITY SPECIFICATION.
- F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150 AND NOT LESS 75 COMPACTED THICKNESS.
- F4. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.
- F5. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75 NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.
- F6. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.2)
- | DESCRIPTION | MEDIUM DENSITY RATIO |
|--------------------|----------------------|
| SUB-BASE | 98% MOD |
| BASE COURSE | 98% MOD |
| ASPHALTIC CONCRETE | 97% MOD |
- AND SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.

- F7. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978.

PAVED AREAS NOTES

- A1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- A2. ALL PAVERS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
- A3. TRAFFICABLE AREAS:
SUB-BASE TO BE 150 COMPACTED THICKNESS DGS75.
SUB-BASE TO BE SUITABLY COMPACTED TO MEDIUM DENSITY 98% MOD.
SUB-BASE TO EXTEND AT LEAST 200 BEYOND PAVED SURFACE.
PAVERS TO BE 80 THICK INTERLOCKING PAVERS ON 50 SAND BEDDING.
- A4. NON TRAFFICABLE AREAS:
SUB BASE AS PER TRAFFICABLE AREAS
PAVERS TO BE 60 INTERLOCKING PAVERS ON 50 SAND BEDDING (UNO).

EROSION AND SEDIMENT NOTES

- B1. THIS PLAN TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS ATTACHED.
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT THE RELEVANT LOCAL AUTHORITY APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS".
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- B5. LAY TURF STRIP (MIN 300 WIDE) ON 100 TOPSOIL BEHIND ALL KERB WITH 1000 LONG RETURNS EVERY 6000 AND AROUND STRUCTURES IMMEDIATELY AFTER BACKFILLING AS PER THE RELEVANT LOCAL AUTHORITY SPECIFICATION.
- B6. THE CONTRACTOR SHALL GRASS SEED ALL DISTURBED AREAS WITH AN APPROVED MIX AS SOON AS PRACTICABLE AFTER COMPLETION OF EARTHWORKS AND REGRADING.
- B7. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- B8. WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL THEY SHALL BE IN CLEAN AND STABLE CONDITION.
- B9. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- B10. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENT IS REVEGETATED OR PAVED.
- B11. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B12. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL:
- DOWNPIPES CONNECTED
- PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

SYMBOLS

DESCRIPTION	
	DENOTE ON-SITE DETENTION TANK OR PUMP OUT TANK
	DENOTE ON-SITE DETENTION BASIN
	DENOTE ABSORPTION TRENCH
	DENOTES DOWNPIPE
	DENOTES 100mm DIA STORMWATER SYSTEM PIPE AT 1% MIN. GRADE U.N.O
	DENOTES 150mm DIA STORMWATER SYSTEM PIPE AT 1% MIN. GRADE U.N.O
	DENOTES 225mm DIA STORMWATER SYSTEM PIPE AT 0.5% MIN. GRADE U.N.O
	DENOTES AGG LINE
	DENOTES SEDIMENT FENCE
	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISH SURFACE LEVEL
	DENOTES CLEANING EYE
	STORMWATER PIT - GRATED INLET
	STORMWATER PIT - SOLID COVER
	MAINTENANCE PIT
	NON RETURN VALVE
	DENOTE ROUND FLOOR DRAINS
	DENOTE SQUARE FLOOR DRAINS
	DENOTE PLANTER BOX DRAINS
	DENOTE GRATED DRAIN
	PROPOSED FINISH FLOOR LEVEL
	DENOTE EXISTING OVERLAND FLOW PATH
	DENOTE RAINWATER TANK
	DENOTE WATER OUTLET
	REDUCED LEVEL/SURFACE LEVELL
	INVERT LEVEL
	TOP OF KERB

SCHEDULE OF DRAWINGS

SHEET No	DESCRIPTION
COVER	GENERAL NOTES
SW01	SEDIMENT AND EROSION CONTROL PLAN
SW02	PROPOSED EASEMENT CONNECTION PLAN
SW03	BASEMENT DRAINAGE PLAN
SW04	GROUND FLOOR DRAINAGE PLAN
SW05	STORMWATER SECTIONS AND DETAILS



ISSUED FOR DA

J	ISSUED FOR DA APPROVAL	27-03-2020
I	ISSUED FOR DA APPROVAL	12-03-2020
H	AMENDED AS PER ARCHITECTURAL UPDATES	01-03-2019
G	ISSUED FOR DA APPROVAL	03-10-2018
F	AMENDED AS PER COUNCIL'S RFI	10-09-2018
E	ISSUED FOR DA APPROVAL	13-07-2018
D	ISSUED FOR DA APPROVAL	27-06-2018
C	ISSUED FOR COORDINATION	17-04-2018
REVISION	AMENDMENT	ISSUE DATE



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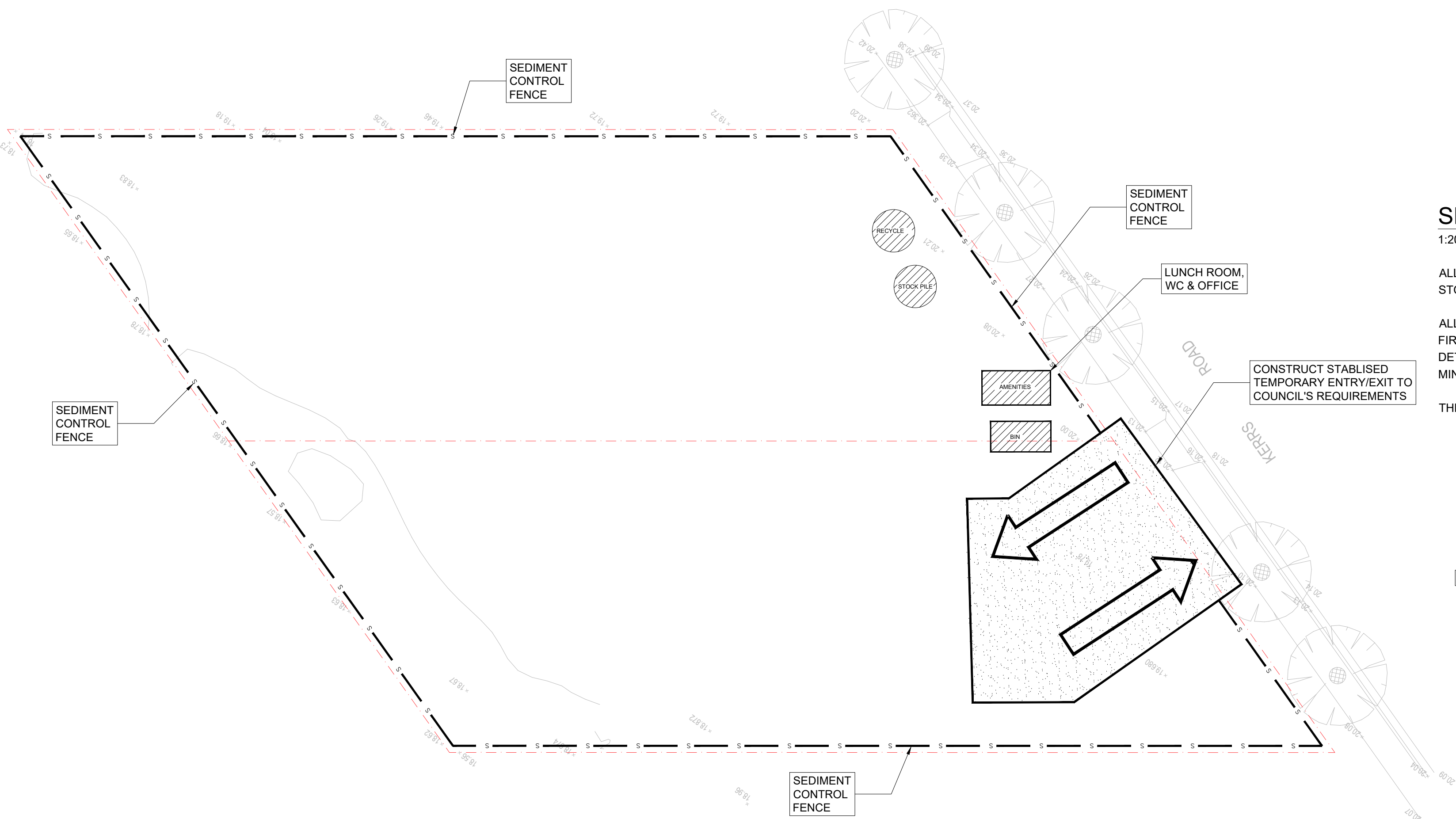
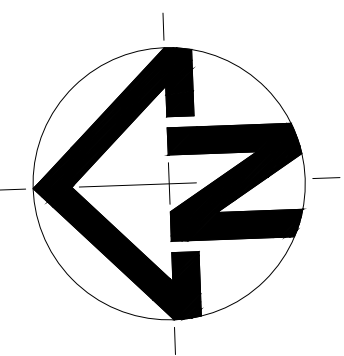
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PROJECT
PROPOSED DEVELOPMENT
65-71 KERRS ROAD,
LIDCOMBE

DRAWING TITLE			
GENERAL NOTES			
SCALES AS SHOWN	DESIGNED RP	DRAFTED RP	
DRAWING NO. A8047 - COVER	APPROVED JM	REVISION J	



SEDIEMENT AND EROSION CONTROL PLAN

1:200 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH)
STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S
DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER SIZE = 6700 mm²
MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = Ø150, UNO.
FO = 300SQ. FLOOR OUTLET , REFER TO DETAIL
SIP = SURFACE INLET PIT (NO LINTEL)
100Ø = Ø100 CHARGED LINE
IP = Ø150 INSPECTION POINT
RWH = RAIN WATER HEAD
RWO = RAIN WATER OUTLET (300 x 300)
FG = FLOOR GULLY Ø150
S^{OP} = RAINWATER SPREADER
100.00 = PROPOSED FINISHED SURFACE LEVEL

SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL SHALL BE EFFECTIVELY
MAINTAINED AT ALL TIMES DURING THE COURSE OF
CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL THE
SITE HAS BEEN STABILISED OR LANDSCAPED TO THE
SUPERINTENDENT'S SATISFACTION.
A SINGLE ALL WEATHER ACCESS WAY WILL BE PROVIDED
AT THE FRONT OF THE PROPERTY CONSISTING OF 50-75
AGGREGATE OR SIMILAR MATERIAL AT A MINIMUM
THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED
GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO
COMMENCEMENT OF WORKS.
THE CONTRACTOR SHALL ENSURE THAT NO SPOIL OR FILL
ENCROACHES UPON ADJACENT AREAS FOR THE
DURATION OF WORKS.
THE CONTRACTOR SHALL ENSURE THAT KERB INLETS AND
DRAINS RECEIVING STORMWATER SHALL BE PROTECTED
AT ALL TIMES DURING DEVELOPMENT. KERB INLET
SEDIMENT TRAPS SHALL BE INSTALLED ALONG THE
IMMEDIATE VICINITY ALONG THE STREET FRONTAGE.
SEDIMENT FENCING SHALL BE SECURED BY POST (WHERE
METAL STAR PICKETS ARE USED PLASTIC SAFETY CAPS
SHALL BE USED) AT 2000 INTERVALS WITH GEOTEXTILE
FABRIC EMBEDDED 200 IN SOIL.
ALL TOPSOIL STRIPPED FROM THE SITE AND
STOCKPILED DOES NOT INTERFERE WITH DRAINAGE
LINES AND STORMWATER INLETS AND WILL BE
SUITABLY COVERED WITH AN IMPERVIOUS MEMBRANE
MATERIAL AND SCREENED BY SEDIMENT FENCING.

SOIL CONSERVATION NOTE:
PRIOR TO COMMENCEMENT OF CONSTRUCTION
PROVIDE 'SEDIMENT FENCE' 'SEDIMENT TRAP' AND
WASHOUT AREA TO ENSURE THE CAPTURE OF WATER
BORNE MATERIAL GENERATED FROM THE SITE.
MAINTAIN THE ABOVE DURING THE COURSE OF
CONSTRUCTION, AND CLEAR THE 'SEDIMENT TRAP'
AFTER EACH STORM.
SEDIMENT TRAP
1000 x 1000 WIDE 500 DEEP PIT, LOCATED AT THE
LOWEST POINT TO THE TRAP SEDIMENT.

WASHOUT AREA
TO BE 1800 x 1800 ALLOCATED FOR THE WASHING OF TOOL
& EQUIPMENT

SEDIMENT FENCE
PROVIDE 'SEDIMENT FENCE' ON DOWN SLOPE BOUNDARY AS
SHOWN ON PLAN. FABRIC TO BE BURIED BELOW GROUND AT
LOWER EDGE.

OVERLAPPING POST DRIVEN 600 INTO THE GROUND
3000 MAX.
600-1200

STAKES DRIVEN 600 INTO THE GROUND WITH FIRST STAKE ANGLED TOWARDS PREVIOUSLY LAID BALE
GEOTEXTILE FILTER FABRIC FASTEN ON TOP EDGE

DRAINAGE AREA 0.5 HA. MAX. SLOPE GRADIENT 1:2 MAX. SLOPE LENGTH 50m.
VEHICLE ACCESS TO SITE

VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE
RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE
AMOUNT OF SOIL DEPOSITED ON THE STREET PAVEMENT.

GEOTEXTILE FABRIC
BERM 200 HIGH, MIN.
RUNOFF FROM PAD DIRECTED TO SEDIMENT TRAP

SEDIMENT FENCE
STRAW BALE AND GEOTEXTILE SEDIMENT FILTER

UNDISTURBED AREA
DISTURBED AREA

UNDISTURBED AREA
DISTURBED AREA

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GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER
CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH
WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF
THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE
ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES,
UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS
SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE
WORK.

DURING EXCAVATION WORK THE STRUCTURE SHALL BE MAINTAINED IN A
STABLE AND NO PART SHALL BE OVERSTRESSED.

ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS
SHOWN ON THE DRAWINGS & THE SPECIFICATION.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM
SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE
LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF
WORK.

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACK
FILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL
COUNCIL.

ALL TRENCH BACK FILL MATERIAL SHALL BE COMPACTED TO THE SAME
DENSITY AS THE ADJACENT MATERIAL.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED
AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS,
FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND
ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS UNLESS
DIRECTED OTHERWISE.

STORMWATER DRAINAGE

THE STORMWATER DRAINAGE DESIGN HAS BEEN CARRIED OUT IN
ACCORDANCE WITH AS/NZS 3500.3 - 1990 'STORMWATER DRAINAGE' &
AS/NZS 3500.3.2-1998 'STORMWATER DRAINAGE - ACCEPTABLE
SOLUTIONS'.

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO
ENGINEER IMMEDIATELY.

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE
REFERRED TO THE ENGINEER FOR APPROVAL.

DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR
100X100 COLORBOND/ZINCALUME STEEL, UNO.

BOX COLORBOND OR ZINCALUME STEEL. GUTTERS SHALL BE A MINIMUM
OF 450 WIDE X 150 DEEP.

EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF
EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS &
EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER
DRAINAGE SYSTEM.

BUILDING MATERIAL STOCKPILES

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND
SOIL MUST BE PROTECTED TO PREVENT SCOUR AND
EROSION. THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER
WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.

WATERPROOF COVERING
EARTH BANK TO PREVENT SCOUR OF STOCKPILE

SEDIMENT FENCE
SEDIMENT FENCE

SANDBAG KERB SEDIMENT TRAP

IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY
BE NEEDED IN THE STREET GUTTER.

SANDBAG IN GUTTER
2000 MIN

SANDBAG IN GUTTER
2000 MIN

SANDBAG IN GUTTER
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SANDBAG IN GUTTER
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ISSUED FOR DA

J	ISSUED FOR DA APPROVAL	27-03-2020
I	ISSUED FOR DA APPROVAL	12-03-2020
H	AMENDED AS PER ARCHITECTURAL UPDATES	01-03-2019
G	ISSUED FOR DA APPROVAL	03-10-2018
F	AMENDED AS PER COUNCIL'S RFI	10-09-2018
E	ISSUED FOR DA APPROVAL	13-07-2018
D	ISSUED FOR DA APPROVAL	27-06-2018
C	ISSUED FOR COORDINATION	17-04-2018
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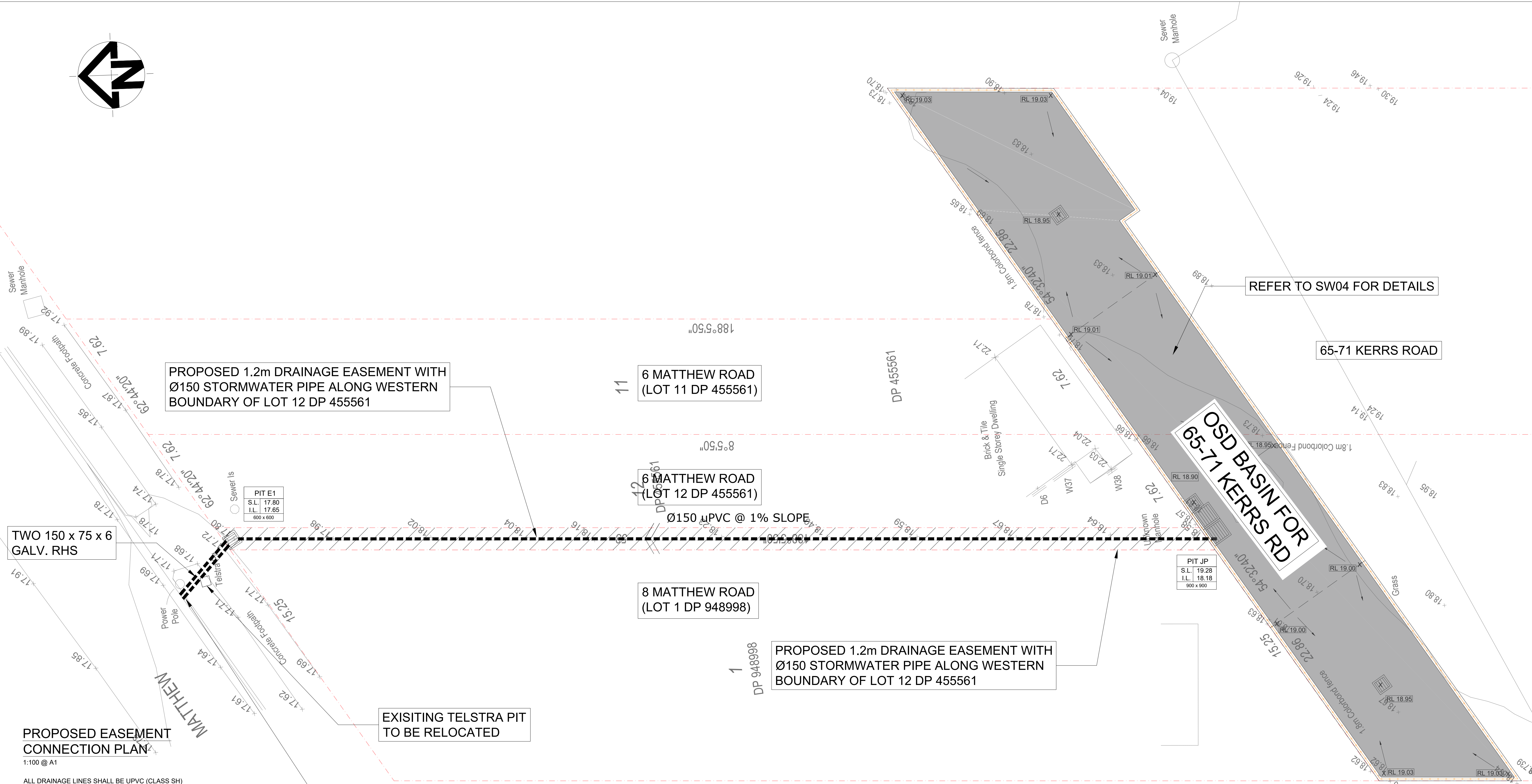
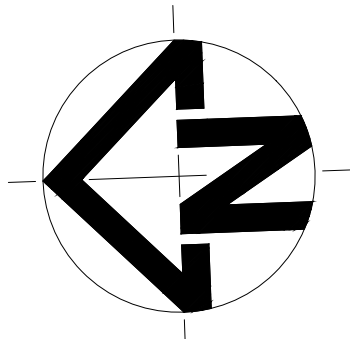
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Nominated Architects
Henry Huang NSW.8992 Eric Kim NSW.9185

PROJECT
PROPOSED DEVELOPMENT
65-71 KERRS ROAD,
LIDCOMBE

DRAWING TITLE		
SEDIMENT AND EROSION CONTROL PLAN		
SCALES AS SHOWN	DESIGNED RP	DRAFTED RP
DRAWING NO. A8047 - SW01	APPROVED JM	REVISION J



PROPOSED EASEMENT
CONNECTION PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH)
STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN. UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO
BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER SIZE = 6700
mm²
MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

- DP = Ø150, UNO.
- FO = 300SQ. FLOOR OUTLET , REFER TO DETAIL
- SIP = SURFACE INLET PIT (NO LINTEL)
- 1000 = Ø100 CHARGED LINE
- IP = Ø150 INSPECTION POINT
- RWH = RAIN WATER HEAD
- SW = RAIN WATER OUTLET (300 x 300)
- FG = FLOOR GULLY Ø150
- RS = RAINWATER SPREADER
- = PROPOSED FINISHED SURFACE LEVEL

EXISTING TELSTRA PIT
TO BE RELOCATED

CONNECTION TO KERB AND GUTTER
MATHEW ROAD AS PER AUBURN
CITY COUNCIL REQUIREMENTS AND
STANDARDS

TK: 17.77
IL: 17.62

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C	ISSUED FOR COORDINATION	17-04-2018
REVISION	AMENDMENT	ISSUE DATE



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SCALES AS SHOWN			DESIGNED RP	DRAFTED RP	
DRAWING NO. A8047 - SW02			APPROVED JM	REVISION J	

BASEMENT DRAINAGE PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH)
STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES
TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER
SIZE = 6700 mm²
MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = Ø100, UNO.
FO = 300SQ. FLOOR OUTLET, REFER TO DETAIL
SIP = SURFACE INLET PIT (NO LINTEL)
100Ø = Ø100 CHARGED LINE
IP = Ø150 INSPECTION POINT
RWH = RAIN WATER HEAD
RWO = RAIN WATER OUTLET (300 x 300)
FG = FLOOR GULLY Ø150
SIP = RAINWATER SPREADER
100.00 = PROPOSED FINISHED SURFACE LEVEL

PUMP DESIGN SUMMARY

CATCHMENT AREA = 60.00 m² (DRIVEWAY RAMP & UNDETAINED AREA)
STORAGE IS A COMBINATION OF BELOW AND ABOVE GROUND

BELOW GROUND

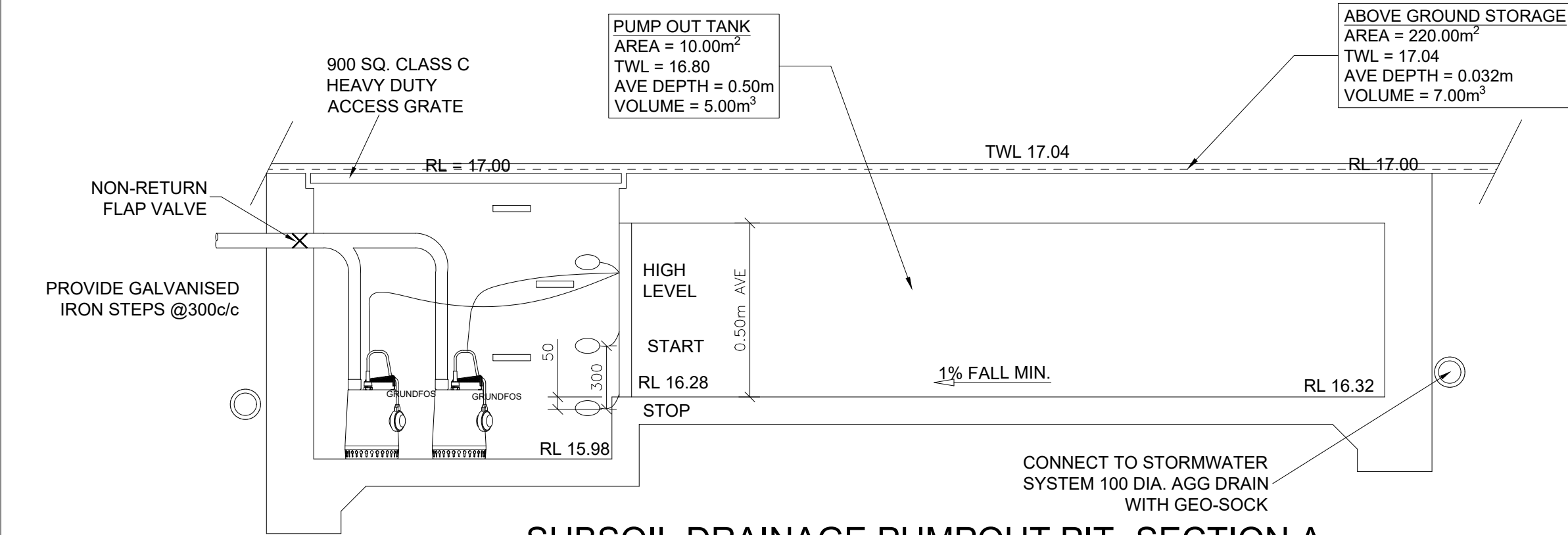
1:100 ARI 90 MIN STORM = 44.3 mm/hr
TOTAL WATER = 1.5 hr x 44.3 mm = 66.45 mm
STORAGE REQUIRED IN TANK = 0.06645 x 60 = 3.987 m³
VOLUME PROVIDED IN TANK = 5.00m³

ABOVE GROUND

1:100 ARI 12 HOUR STORM = 15 mm/hr
TOTAL WATER = 12 hr x 15mm = 180 mm
STORAGE REQUIRED ABOVE & TANK = 0.18 x 60 = 10.80 m³
STORAGE REQUIRED IN TANK = 0.06645 x 60 = 3.987 m³
VOLUME REQUIRED ABOVE GROUND = 10.80 - 3.987 = 6.813 m³
VOLUME PROVIDED ABOVE GROUND = 7.00m³

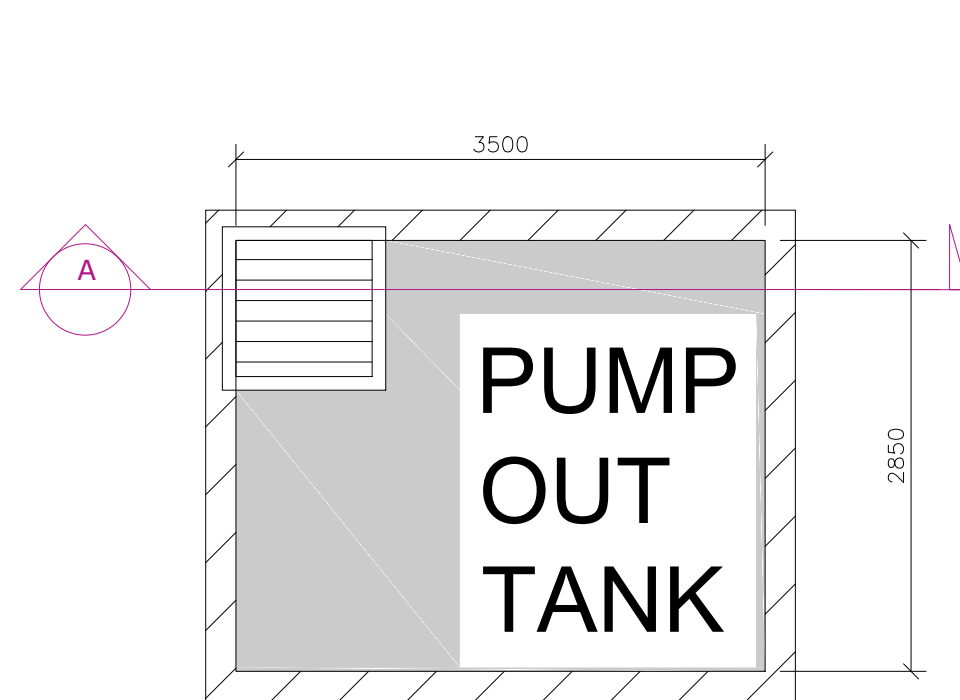
PUMP HEAD = 5 m
RAINFALL INTENSITY FOR CALCULATIONS = 100 YEAR ARI
STORM DURATION 5 MINUTE = 205 mm/h
PUMP RATE REQUIRED = (205 x 60) / 3600 = 3.41 l/s

2 x SABRE KS-05 SUBMERSIBLE PUMPS



SUBSOIL DRAINAGE PUMPOUT PIT- SECTION A

1:20



PUMP OUT TANK PLAN

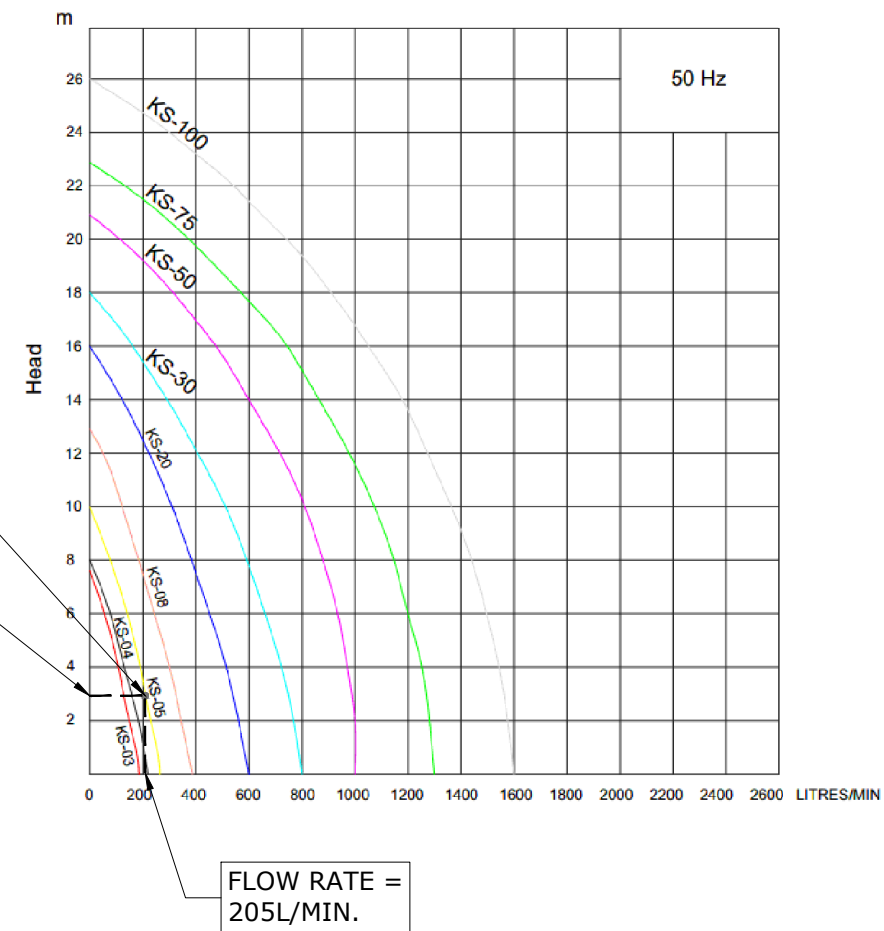
1:50 @ A1

MINIMUM PUMP
TYPE REQUIRED
(KS-05)

MODEL NO.	OUTPUT		DISCHARGE		RATED		MAXIMUM		WEIGHT	DIMENSION
	HP	kW	mm	INCH	HEAD	CAPACITY	HEAD	CAPACITY		
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188 X 141 X 305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208 X 140 X 359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230 X 156 X 375
KS-10	1	0.75	50 (80)	2"(3")	6	240	13	380	21	290 X 180 X 425
KS-20	2	1.5	80	3"	10	300	16	600	31	278 X 182 X 475
KS-30	3	2.2	80	3"	10	500	18	800	42	390 X 250 X 450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450 X 240 X 530
KS-75	7.5	5.6	100	4"	15	800	23	1300	60	550 X 310 X 590
KS-100	10	7.5	150	6"	18	900	26	1600	70	550 X 310 X 610

SABRE PUMP GRAPH & SPECIFICATION

NTS



MINIMUM PUMP
TYPE REQUIRED
DUAL KS-05

HEAD = 3m

FLOW RATE =
205L/MIN.

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PROJECT
PROPOSED DEVELOPMENT
65-71 KERRS ROAD,
LIDCOMBE

DRAWING TITLE
BASEMENT FLOOR DRAINAGE PLAN

SCALES	DESIGNED	DRAFTED
AS SHOWN	RP	RP
DRAWING NO.	APPROVED	REVISION
A8047 - SW03	JM	J

GROUND FLOOR DRAINAGE PLAN

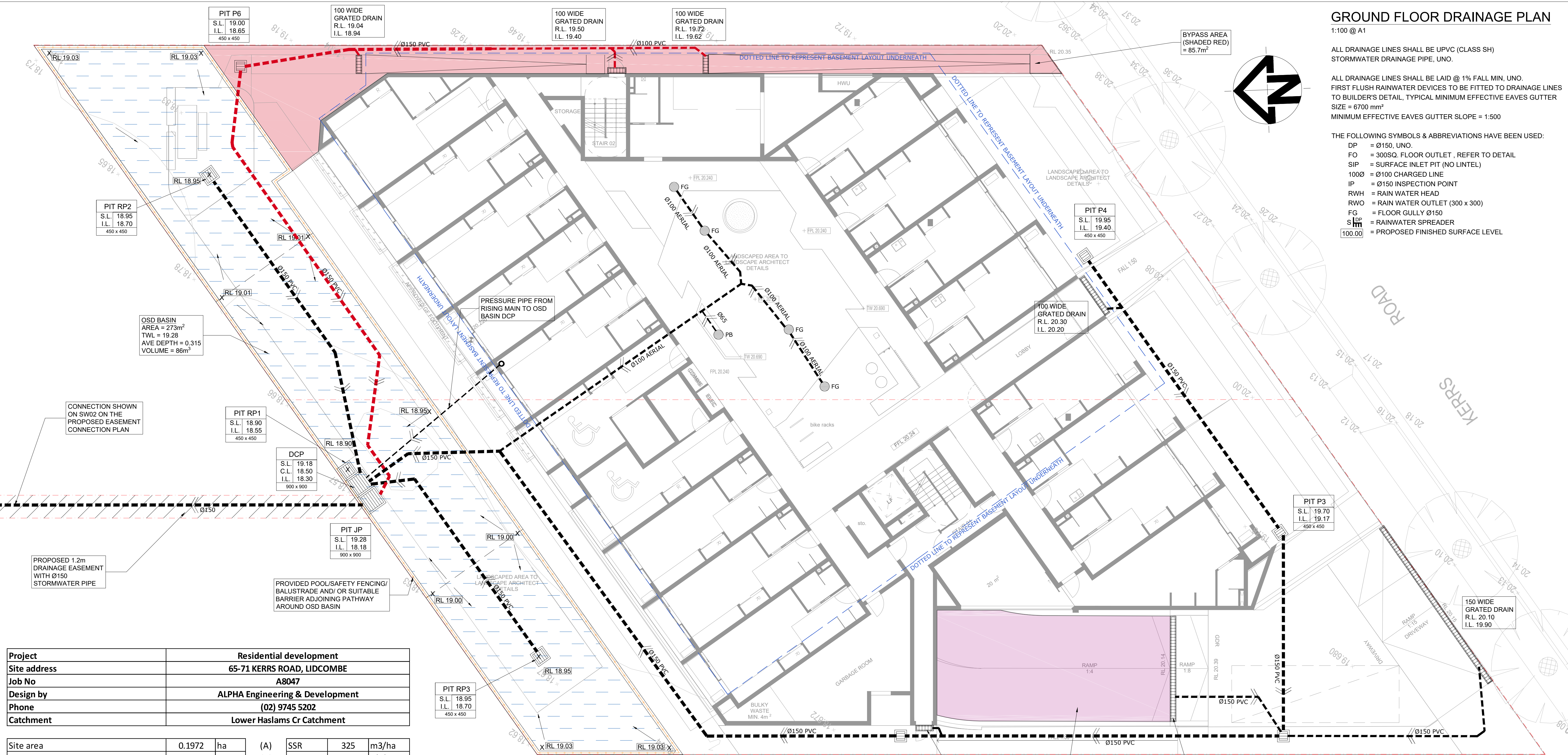
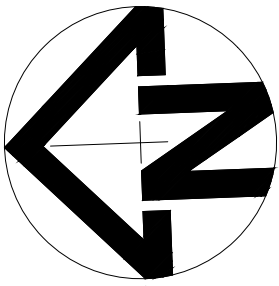
1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER SIZE = 6700 mm² MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

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IP = Ø150 INSPECTION POINT
RWH = RAIN WATER HEAD
RWO = RAIN WATER OUTLET (300 x 300)
FG = FLOOR GULLY Ø150
SP = RAINWATER SPREADER
100.00 = PROPOSED FINISHED SURFACE LEVEL



Project	Residential development
Site address	65-71 KERRS ROAD, LIDCOMBE
Job No	A8047
Design by	ALPHA Engineering & Development
Phone	(02) 9745 5202
Catchment	Lower Haslams Cr Catchment

Site area	0.1972	ha
Basic storage Volume	64.09	m3
Basic discharge	29.58	L/s
Site draining to storage	0.1886	ha
Percentage of side	95.7	%
Storage/hectare of contributing area	339.77	m3/ha
Adjust PSD	126	L/s/ha
PSD for site	23.74	L/s
Max head to orifice centre	0.78	m
Diameter of orifice	0.112	m
Maximum discharge	23.74	L/s
Head for high early discharge	0.68	m
HED	22.16	L/s
HED %	93.4	%
Mean discharge	22.95	L/s
Average Discharge per hectare	121.7	L/s/ha
SSR	348	m3/ha
Final SSR	65.68	m³
Total volume provided	86.04	m³

(A)	SSR	325	m3/ha
(B)	PSD	150	L/s/ha
(C)			
(D)			
(E)			
(F)			
(G)			
(H)			
(K)			
(J)			
(L)			
(M)			
(N)			
(P)			
(Q)			
(R)			
(S)			
131%			

STORMWATER LEGEND	
	OUTLINE OF FLOOR UNDERNEATH
	STORMWATER PIPE BYPASS OSD

- NOTES ON OSD BASIN
- BASIN SURFACE TO BE GRASS TURFED OR PAVED WITH NON-FLOATABLE MATERIAL. NO BARK CHIPS ALLOWED.
 - ALL WALLS FORMING THE OSD BASIN SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES
 - THE OSD BASIN WALLS SHALL BE MASONARY TYPE (WATER PROOF) CONSTRUCTION
 - PROVIDED POOL/SAFETY FENCING/ BALUSTRADE AND/ OR SUITABLE BARRIER ADJOINING PATHWAY AROUND OSD BASIN



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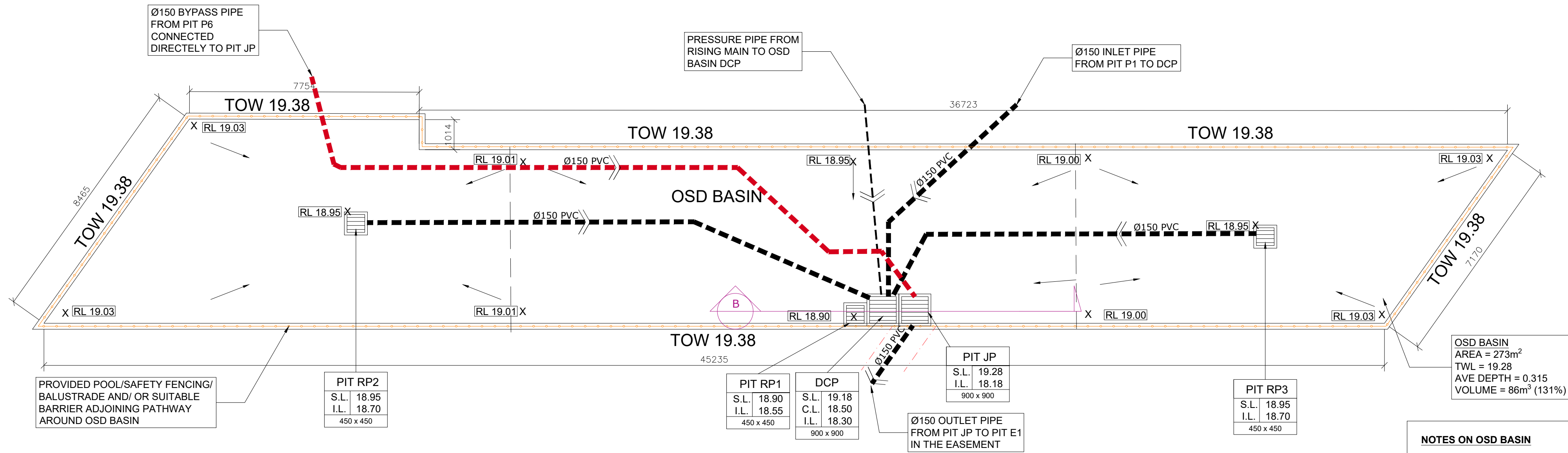
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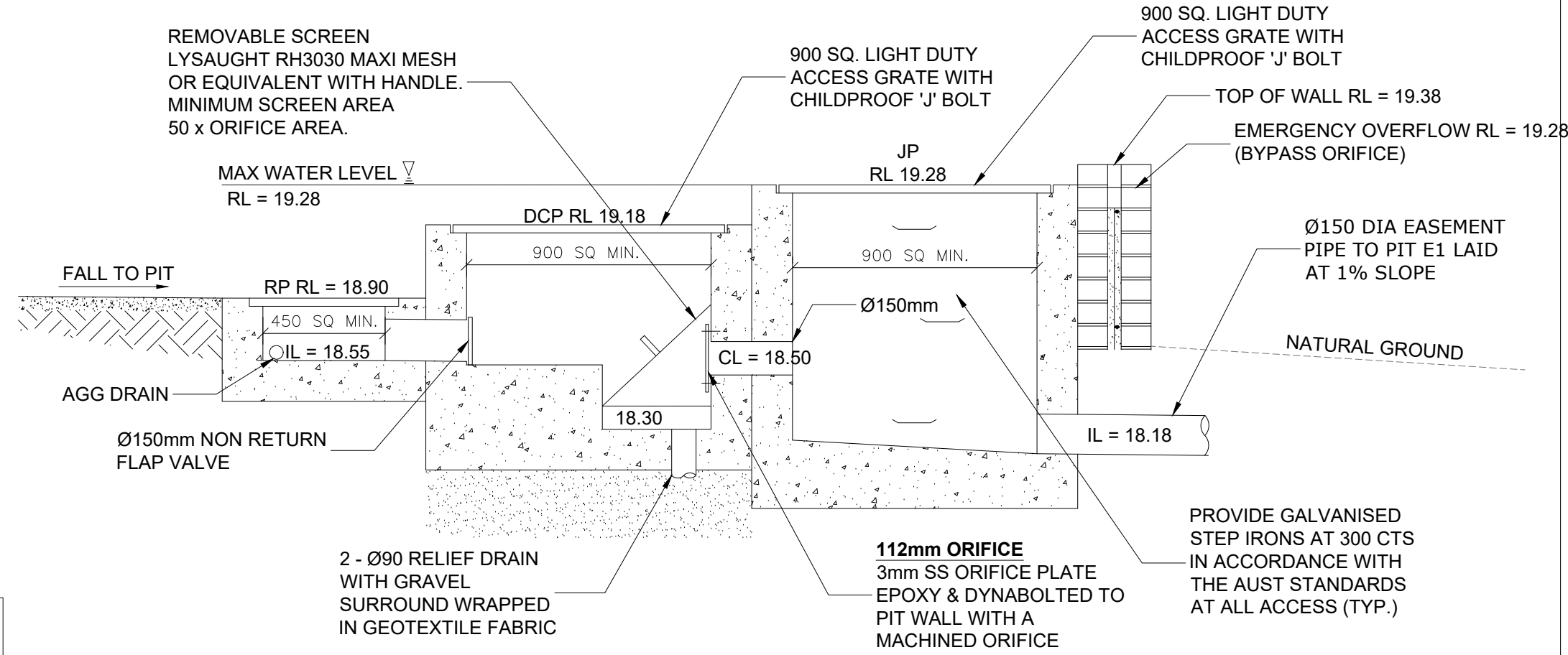
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Nominated Architects
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PROJECT
PROPOSED DEVELOPMENT
65-71 KERRS ROAD,
LIDCOMBE

DRAWING TITLE		
GROUND FLOOR DRAINAGE PLAN		
SCALES AS SHOWN	DESIGNED RP	DRAFTED RP
DRAWING NO. A8047 - SW04	APPROVED JM	REVISION J



OSD BASIN PLAN
1:100 @ A1



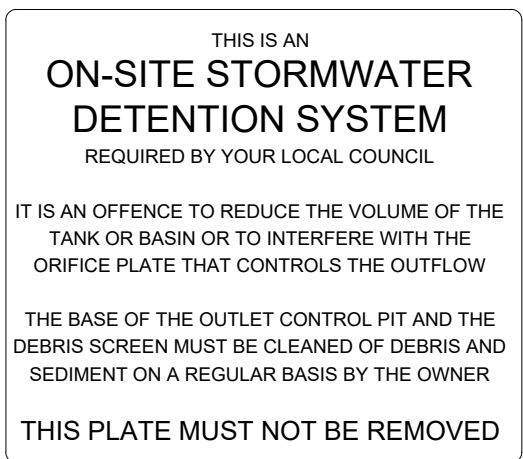
OSD AT OUTLET- SECTION B
1:20

NOTES ON OSD BASIN

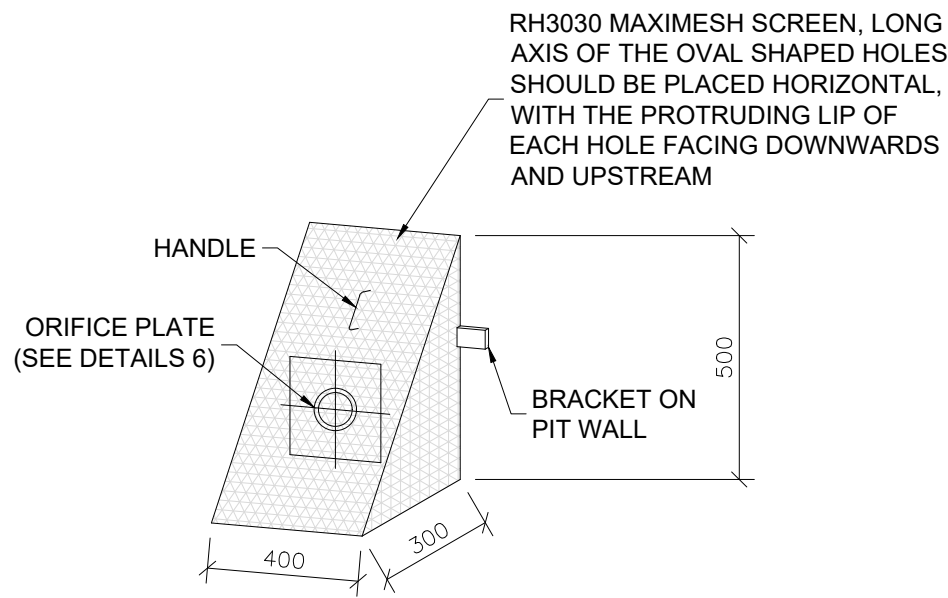
1. BASIN SURFACE TO BE GRASS TURFED OR PAVED WITH NON-FLOATABLE MATERIAL. NO BARK CHIPS ALLOWED.
2. ALL WALLS FORMING THE OSD BASIN SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES
3. THE OSD BASIN WALLS SHALL BE MASONARY TYPE (WATER PROOF) CONSTRUCTION
4. PROVIDED POOL/SAFETY FENCING/ BALUSTRADE AND/ OR SUITABLE BARRIER ADJOINING PATHWAY AROUND OSD BASIN



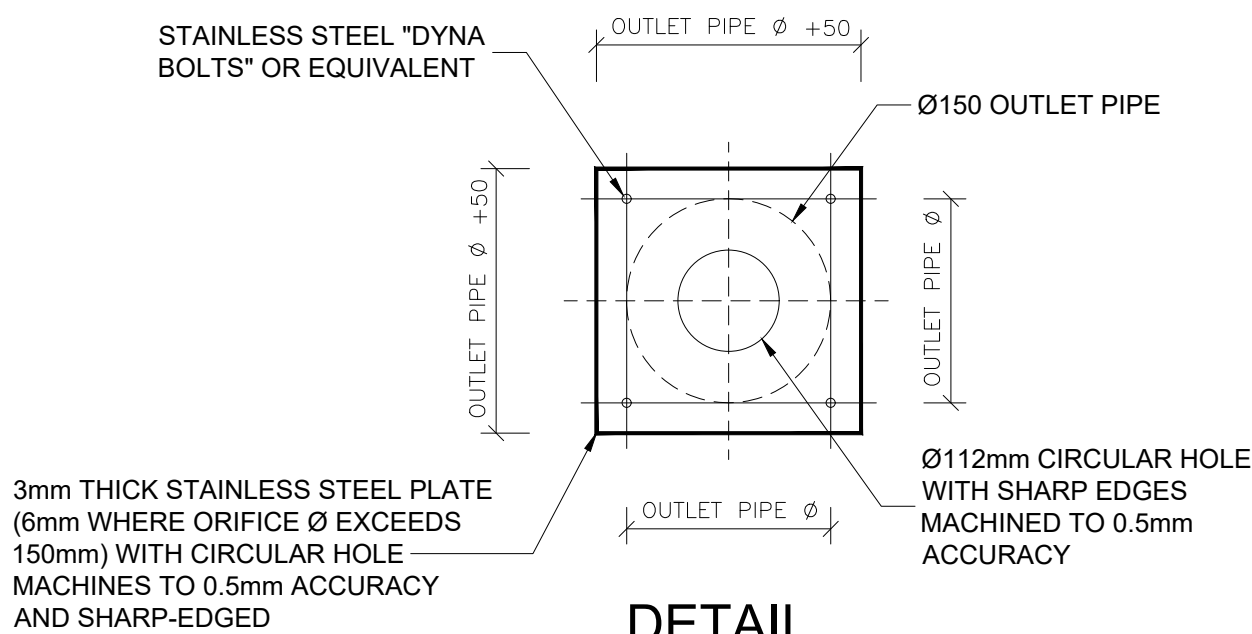
OSD WARNING SIGN
NTS



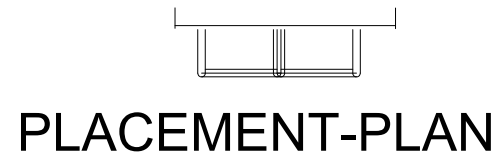
OSD SIGN
N.T.S.



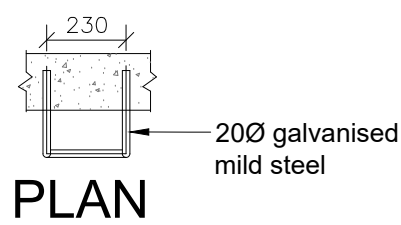
STANDARD TRASH SCREEN
NTS



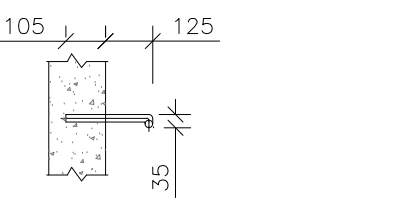
DETAIL ORIFICE PLATE
1:10



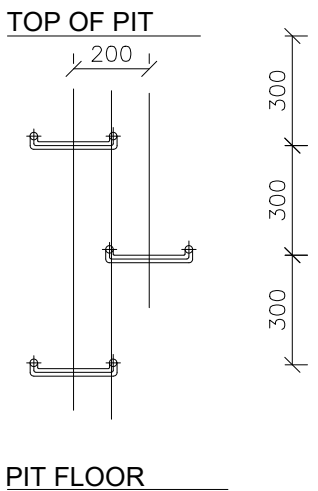
PLACEMENT-PLAN



FRONT-ELEVATION



SIDE-ELEVATION

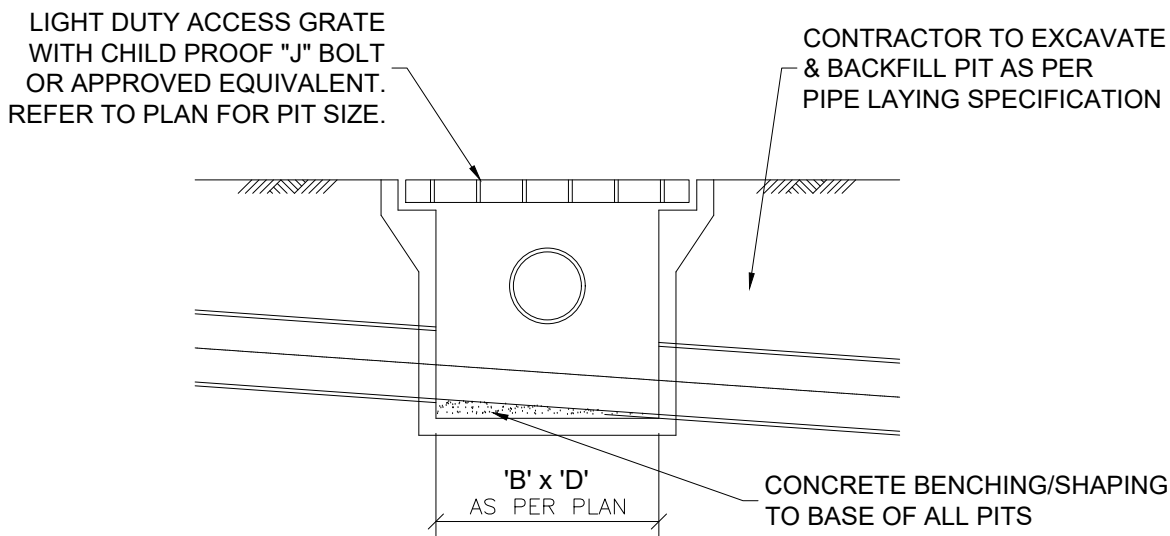


PLACEMENT ELEVATION

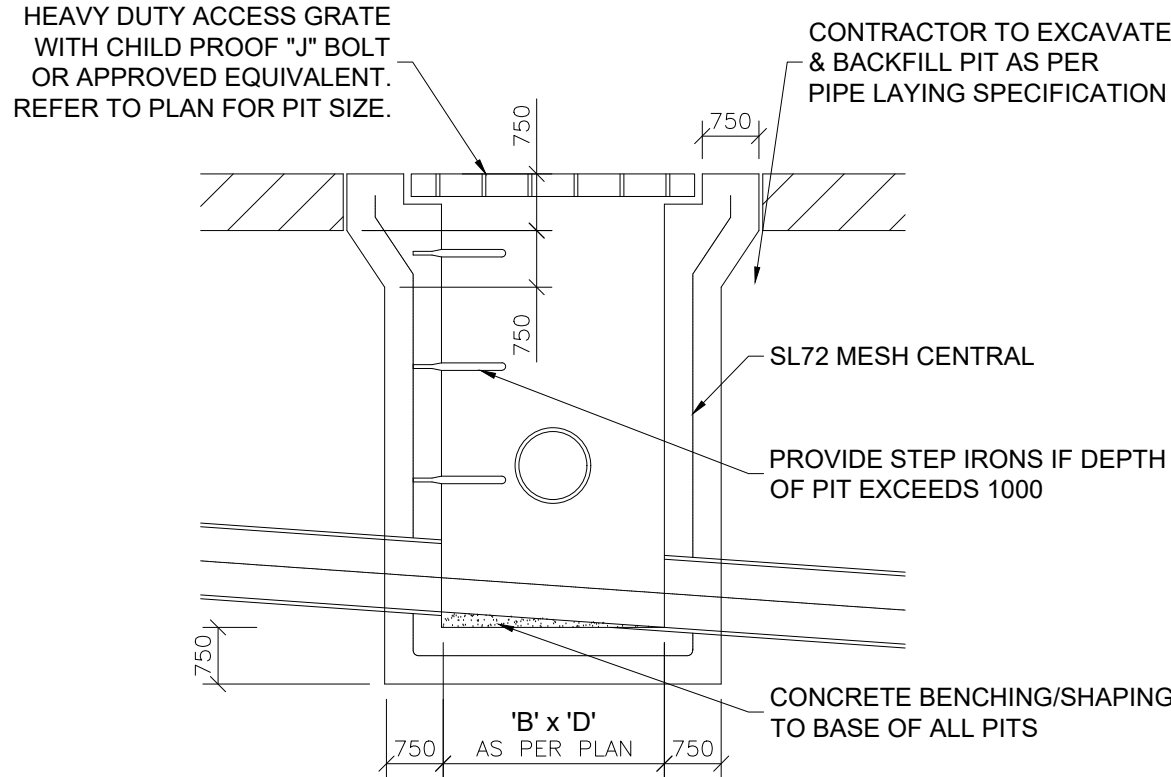
TYPICAL STEP IRONS
1:20



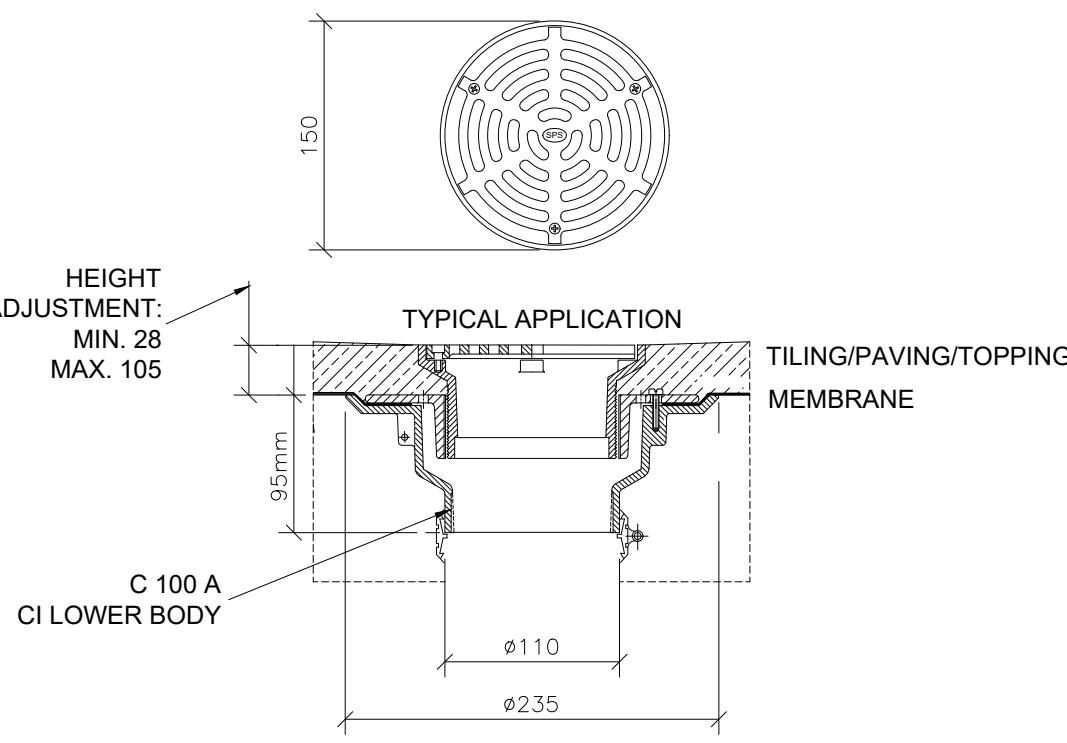
CONFINED SPACE SIGN
NTS



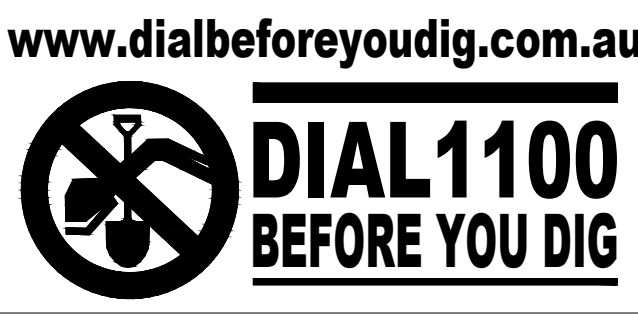
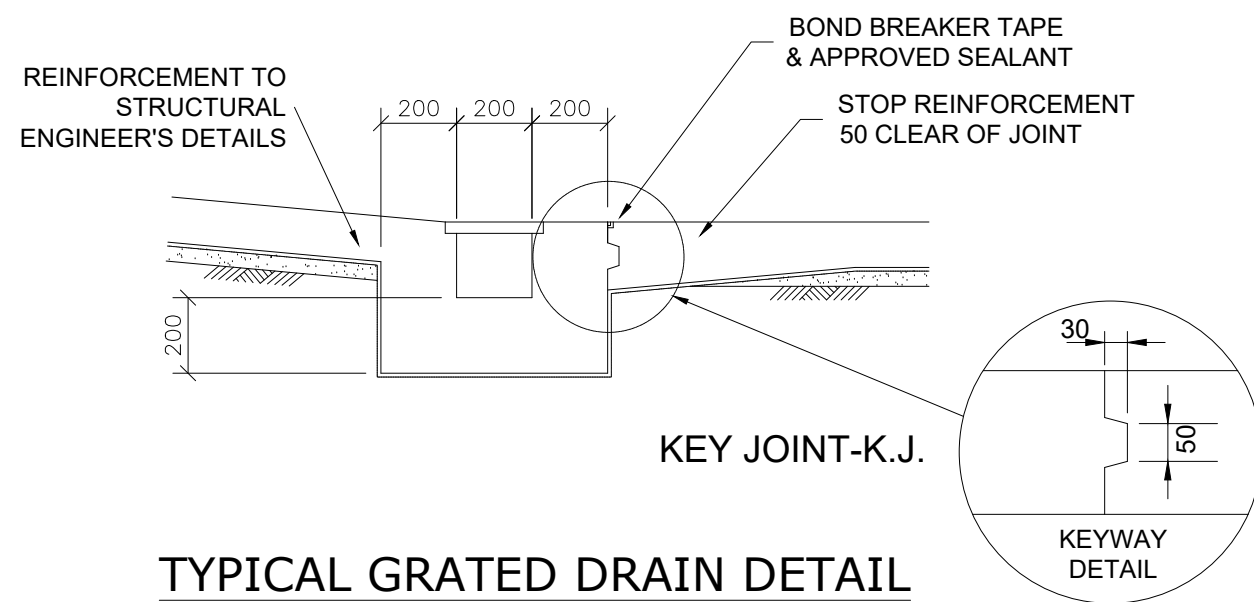
TYPICAL SURFACE INLET PIT DETAIL
1:100
TYPICAL FOR ALL PITS IN NON TRAFFIC AREAS.



TYPICAL SURFACE INLET PIT DETAIL
1:100
TYPICAL FOR ALL PITS IN DRIVEWAY/CARPARK AREAS.



TYPICAL Ø150 INLET IN SUSPENDED SLAB
1:5
SPECIFICATION CODE:
R150 G/C (BRONZE GRATE, CI LOWER BODY)
R150 N/C (NICKEL - BRONZE GRATE, CI LOWER BODY)
R150 S/C (316 STAINLESS STEEL GRATE, CI LOWER BODY)



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PROJECT
PROPOSED DEVELOPMENT
65-71 KERRS ROAD,
LIDCOMBE

DRAWING TITLE		
STORMWATER SECTIONS AND DETAILS		
SCALES AS SHOWN	DESIGNED RP	DRAFTED RP
DRAWING NO. A8047 - SW05	APPROVED JM	REVISION J