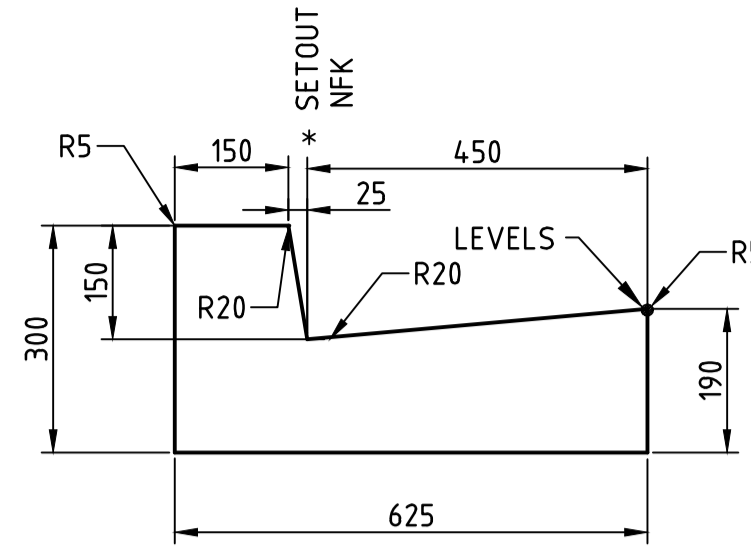


KERB LEGEND:

* NOMINAL KERB LINE FOR SETTING OUT.

KERB NOTES:

1. ROADBASE 150mm THICK TO BE PLACED UNDER ALL KERB AND GUTTER AND FOR 200mm BEHIND BACK OF KERB.
2. ROADBASE TO BE CRUSHED ROCK OR CRUSHED RECYCLED CONCRETE GRADED TO DGS20
3. MACHINE EXTRUDED K&G - CONCRETE N25 NO SLUMP
4. CONTRACTION JOINTS @ MAX. 3m CRS, EXPANSION JOINTS @ MAX. 15m CRS
5. ALL ASPHALT SHALL BE PROPRIETARY HOT MIX IN ACCORDANCE WITH AUS-SPEC 1144, PLACED AND COMPACTED AT A MINIMUM TEMPERATURE OF 140°C. THE USE OF COLD MIX IS NOT PERMITTED.
6. BOXING OF EXISTING ROAD PAVEMENT IS TO BE REINSTATED AS FOLLOWS FOR TRAFFIC LANES COMPACTED FULL DEPTH AC14 AND/OR AC20. FOR PARKING LANES OR TEMPORARY BACKFILL WHERE THE ROAD IS BEING RESURFACED PAVEMENT IS TO BE 80MM AC10 / AC14 WEARING COURSE ON COMPACTED 120 DGB20 ROAD BASE. TEMPORARY AC SEAL CAN BE 40MM AC10/AC14 IF THE PAVEMENT RESURFACING IS 80MM OR GREATER.



150mm KERB AND GUTTER
KERB TYPE

NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS.
2. ALL EXISTING SERVICES & STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT.
3. ALL LEVELS ARE A.H.D.
4. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH AUSPEC, TO BEST PRACTICE STANDARDS AND TO THE SATISFACTION OF COUNCIL'S TECHNICAL SERVICES DIVISIONAL MANAGER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL RELEVANT AUTHORITIES BEFORE COMMENCING WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS INVOLVED IN THE PROTECTION AND RESTORATION OF SERVICES AND THE REPAIR OF ANY DAMAGED SERVICES AS A RESULT OF THE WORK.
7. ALL DIMENSIONS & LEVELS ARE TO BE CHECKED ON SITE BEFORE WORK COMMENCES.
8. ALL REDUNDANT PIPEWORK WITHIN THE FOOTPATH AREA TO BE REMOVED AND FOOTPATH/KERB RE-INSTATED.

IN CASE OF EMERGENCY, CONTACT THE FOLLOWING UTILITIES IF THEIR SERVICES ARE INVOLVED:
TELSTRA : 132203
AGL (GAS) : 131909
SYDNEY WATER : 132090
ENERGY AUST. : 131388



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THESE UTILITIES AS SPECIFIED BY EACH UTILITY OWNER'S EXCAVATION GUIDELINES.

NOTE:
THE CONTRACTOR TO LOCATE ALL HOUSE SERVICES (GAS, WATER) PRIOR TO CONSTRUCTION SERVICES TO BE LOWERED AS OR IF REQUIRED.

NOTE:
THE CONTRACTOR TO REINSTATE ALL KERB AND GUTTER, ROAD PAVEMENT AND FOOTPATHS AFFECTED BY WORKS TO CB COUNCIL STANDARDS AND TO THE SATISFACTION OF THE DIVISIONAL MANAGER TECHNICAL SERVICES.

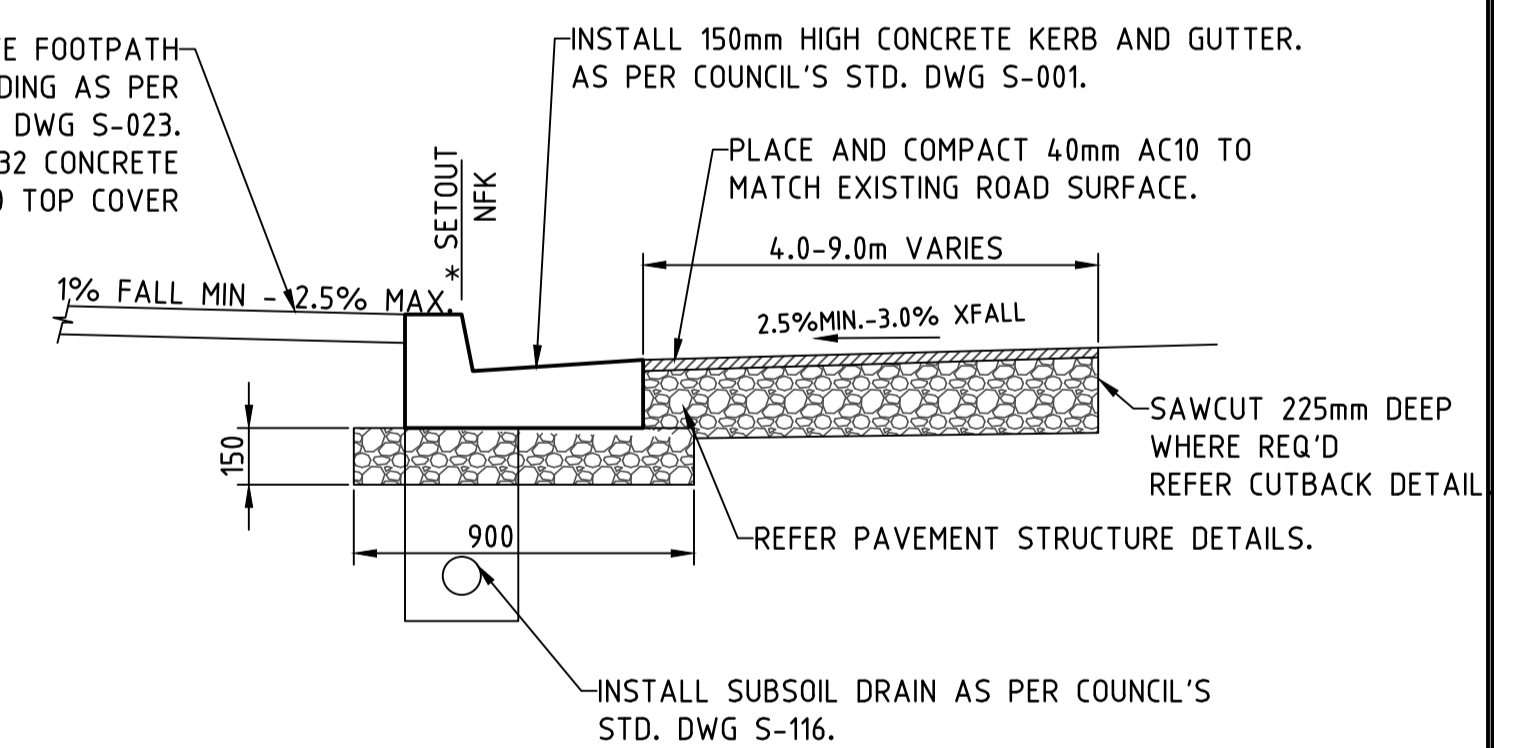
BEWARE:
ELECTRICITY, WATER, SEWER, TELSTR & GAS SERVICES IN THE VICINITY OF THE WORKS, CONTRACTOR TO CONTACT SYDNEY WATER, TELSTRA & ENERGY AUST PRIOR TO EXCAVATION.

COUNCIL'S STANDARD DRAWINGS

CAMDEN CITY COUNCIL'S STANDARD DRAWINGS

- SD01 - TYPICAL ROAD CROSS SECTIONS
- SD02 - KERB PROFILES
- SD03 - KERB RAMP
- SD06 - PATHWAY RAILS
- SD12 - GRATED GULLY PIT
- SD13 - SURFACE INLET PIT
- SD14 - JUNCTION PIT
- SD16 - SURCHARGE PIT
- SD17 - MINOR DRAINAGE CONNECTIONS
- SD20 - STEP IRONS
- SD26 - KERB ADAPTOR
- SD27 - STREET NAME SIGNAGE
- SD28 - FLOOD WARNING SIGNAGE
- SD30 - ROCK RETAINING WALL
- SD31 - STABILISED ACCESS POINT

PAVEMENT STRUCTURE DETAILS (RESIDENTIAL ACCESS)
40mm A.C. SURFACING
PRIMER SEAL
100mm BASE COURSE GRAVEL (TYPE 2.2) CBR60
100mm SUB BASE COURSE GRAVEL (TYPE 2.4) CBR40
100mm SUBGRADE REPLACEMENT CBR 15 (PROVISIONAL).
SUBJECT TO 4 DAY SOAKED CBR TEST.

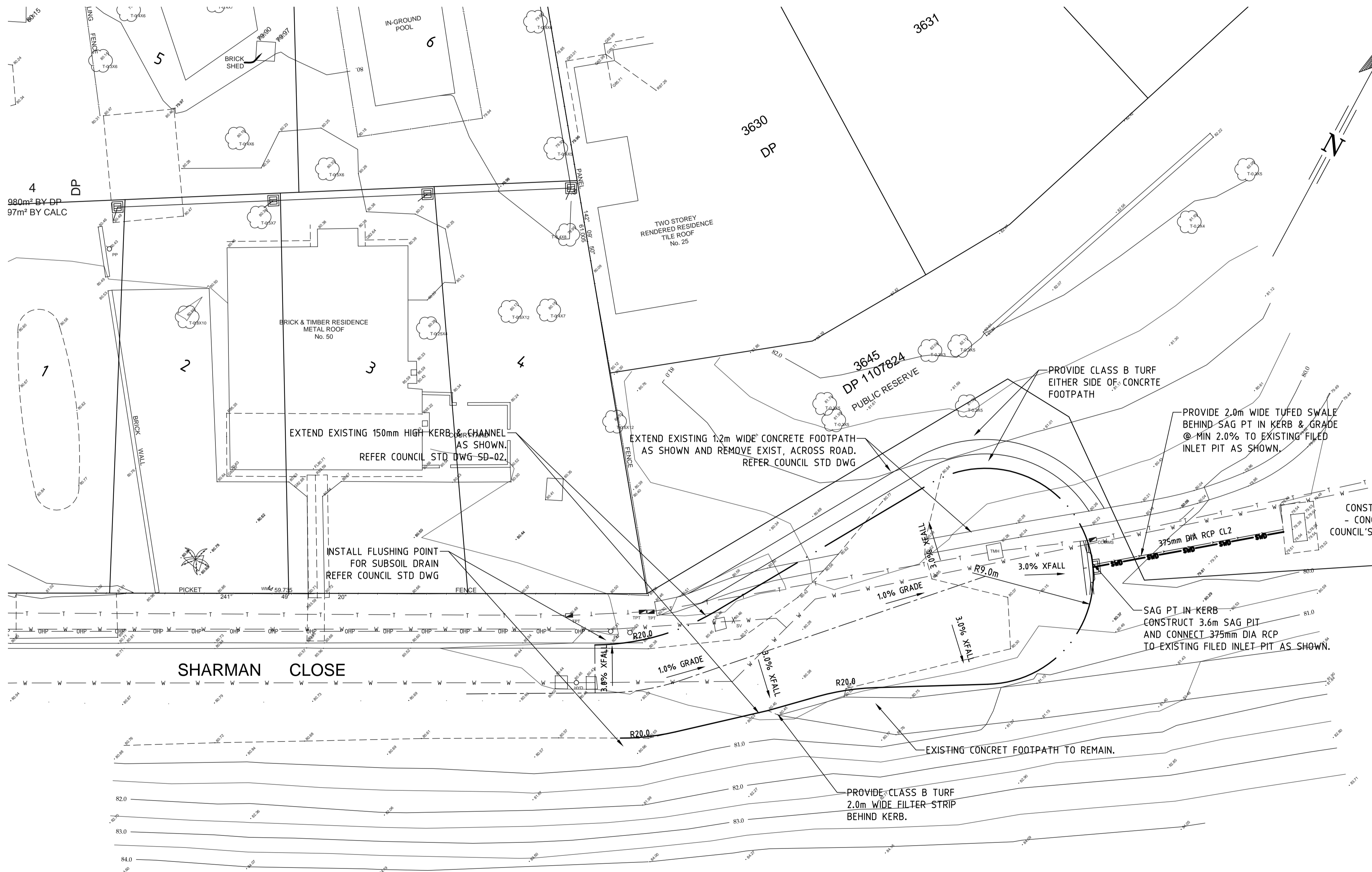
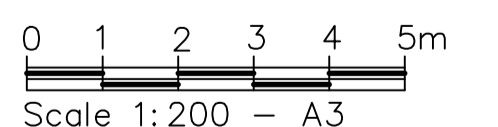
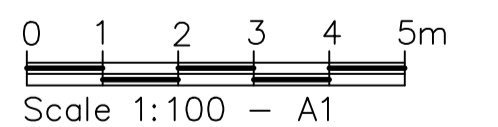


TYPICAL CROSS-SECTION KERB AND GUTTER

SCALE 1:10-A1
SCALE 1:20-A3

LEGEND

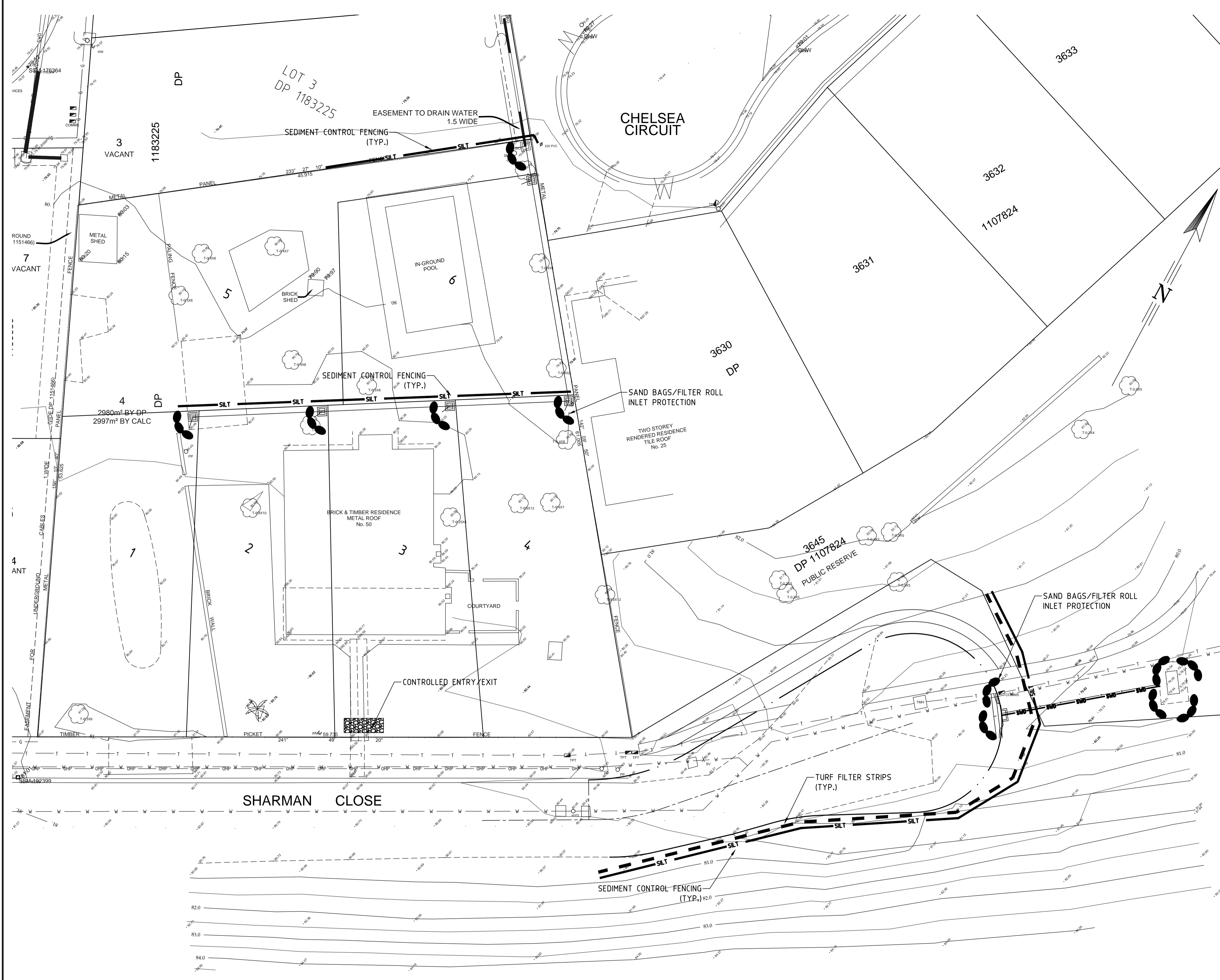
- (0.5m INTERVALS) --- PROPOSED NOMINAL FACE OF KERB AND GUTTER
- OHP --- EXISTING OH POWER
- W --- EXISTING WATER
- T --- EXISTING TELSTRA
- G --- EXISTING GAS



ROADWORKS LAYOUT PLAN

(SCALE 1:200 - A1)
(SCALE 1:400 - A3)

DESIGNED BRD		SUIE 3, 30 COWPER ST. PARRAMATTA NSW 2150 Phone: 1300 009791 Mob: 0402 301 498 website: www.csmgroup.net.au email: info@csmgroup.net.au		CSM Group CIVIL STRUCTURAL MATERIALS HANDLING "Complete Design and Engineering Solutions"	PROPOSED 1 INTO 6 LOT RECONFIGURATION LOT 4 DP 1183225 50 SHARMAN CLOSE, HARRINGTON PARK. NSW 2567 CONCEPT ROADWORKS PLAN	
DRAWN AS		THIS DOCUMENT IS COPYRIGHT & THE PROPERTY OF CSM GROUP & MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY.			DRAWING NUMBER	17C-567-DA-01
CHECKED BRD		FILE No. 17C-567				
APPROVED BRUCE DELAHUNTY MIE Aust. NER 3786934		DATE 5/09/2018				
ISSUED FOR COUNCIL APPROVAL		B.R.D. 10/07/18				
REVISION		BY DATE				
CAD X-REFS.						



SILT MANAGEMENT NOTES

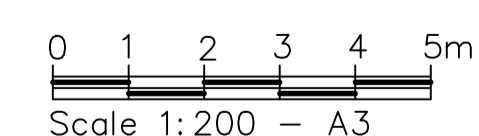
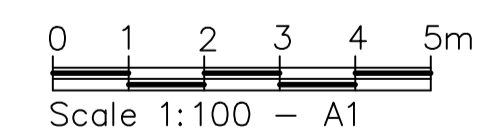
- WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL DEVELOPMENT MANUAL.
- CONSTRUCTION IS TO BE MANAGED SUCH THAT AREAS NOT REQUIRED FOR CONSTRUCTION PURPOSES ARE TO BE LEFT UNDISTURBED WHERE POSSIBLE.
- SEDIMENT CONTROL DESIGN MEASURES SHOULD BE SET IN PLACE PRIOR TO ANY CONSTRUCTION COMMENCING.
- THE CONTRACTOR IS TO MAINTAIN & CLEAN OUT ALL STRUCTURES. GEOTEXTILE SOCK TO PREVENT SEDIMENT ENTERING KERB INLETS. ONCE TRENCHES ARE BACKFILLED THEY ARE TO BE IMMEDIATELY TOP-DRESSED & SEEDED.
- GRASS SEEDING OF ALL DISTURBED AREAS TO BE CARRIED OUT WITHIN 7 DAYS OF FINAL TRIMMING. PROVIDE HAY BALES ON UPSTREAM SIDE OF STORMWATER GULLIES AND MANHOLES PRIOR TO THEIR CONSTRUCTION.
- TURF TO BE PLACED ON FOOTPATH AT BACK OF ALL NEW KERB (TURF WIDTH APPROXIMATELY 600mm).
- PRIOR TO GRAVEL CYLINDERS BEING PLACED, AS PER NOTE 5, CUT OFF DRAINS ARE TO BE CONSTRUCTED TO DIVERT RUN-OFF AND SEDIMENT FROM ENTERING THE STORMWATER SYSTEM.
- ALL SEDIMENT CONTROL MEASURES TO BE MAINTAINED IN GOOD WORKING ORDER.
- CEMENT RESIDUE TO BE WASHED ONTO PERVIOUS SURFACES OR CONTAINED WITHIN TEMPORARY SEDIMENT DAMS CREATED FROM BUND WALLS OR TIGHTLY STACKED SANDBAGS. WHEN DRY, THE CEMENT RESIDUE TO BE SHOVELLED INTO A WASTE DISPOSAL BIN.
- ACCIDENTAL SPILLS OF SOIL OR OTHER MATERIALS ONTO THE ROAD OR GUTTER TO BE REMOVED (VIA APPROPRIATE DISPOSAL) AS INCIDENTS OCCUR.
- MOTOR FUELS, OILS OR OTHER CHEMICALS TO BE CONFINED TO SPECIFIED AREA AND ANY SPILLS ARE TO BE CONFINED AND DISPOSED OF TO AN APPROPRIATE OFF-SITE DISPOSAL AREA.
- MAINTENANCE:** EVERY DAY AND AFTER EACH RAIN EVENT INSPECT, CLEAN AND REPAIR IF REQUIRED, THE TEMPORARY EROSION AND SEDIMENT CONTROL WORKS.
- REMOVAL:** REMOVE TEMPORARY CONTROL MEASURES ONLY WHEN ALL LANDSCAPED AREAS ARE FULLY DEVELOPED.

EROSION AND SEDIMENT CONTROL NOTES:

- 400mm TURF TO EDGE OF DRIVEWAYS
- 800mm TURF TO BACK OF KERB AND CHANNEL AND AROUND PROPERTY PITS.
- PROVIDE 5 m² STONEPITCHING AT ALL STORMWATER OUTLETS
- PROVIDE INLET PROTECTION MEASURES TO ALL INLETS.
- GRASS SEED ALL DISTURBED AREAS.
- DUST CONTROL BY WATERING AS NECESSARY TO PREVENT VISIBLE DUST CLOUDS AT PROPERTY BOUNDARIES.

LEGEND:

- (0.5m INTERVALS)
- EXISTING CONTOURS
 - EXISTING OH POWER
 - EXISTING WATER
 - EXISTING TELSTRA
 - EXISTING GAS
 - PROPOSED ROOFWATER DRAINAGE
 - PROPOSED STORMWATER DRAINAGE
 - EXISTING KERB AND CH.
 - EXISTING EDGE OF BITUMEN
 - ROAD CENTRE LINE
 - PROPOSED WATER
 - TURFED SWALE DRAIN
 - 150 HIGH KERB & CHANNEL
- VEHICLE SHAKEDOWN:
300mm THICK LAYER OF 75mm GRAVEL LAID ON GEOTEXTILE, GRADED TO DRAIN AWAY FROM SHAKEDOWN. BARRIER TO BE PLACED AROUND SHAKEDOWN TO ENSURE VEHICLES USE SHAKEDOWN.
- CONTROLLED ENTRY/EXIT
 - SEDIMENT CONTROL FENCING OR MULCH BUND.
 - TURF FILTER STRIPS
 - SAND BAGS/ FILTER ROLLS



ROADWORKS LAYOUT PLAN
(SCALE 1:200 - A1)
(SCALE 1:400 - A3)

No.	REVISION	BY	DATE	CAD X-REFS.
A	ISSUED FOR COUNCIL APPROVAL	B.R.D	10/07/18	

B. Delahunty

APPROVED
BRUCE DELAHUNTY MIEAust. NER 3786934

DATE
5/09/2018

DESIGNED BRD
DRAWN AS
CHECKED BRD
FILE No. 17C-567

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email: info@csmgroup.net.au

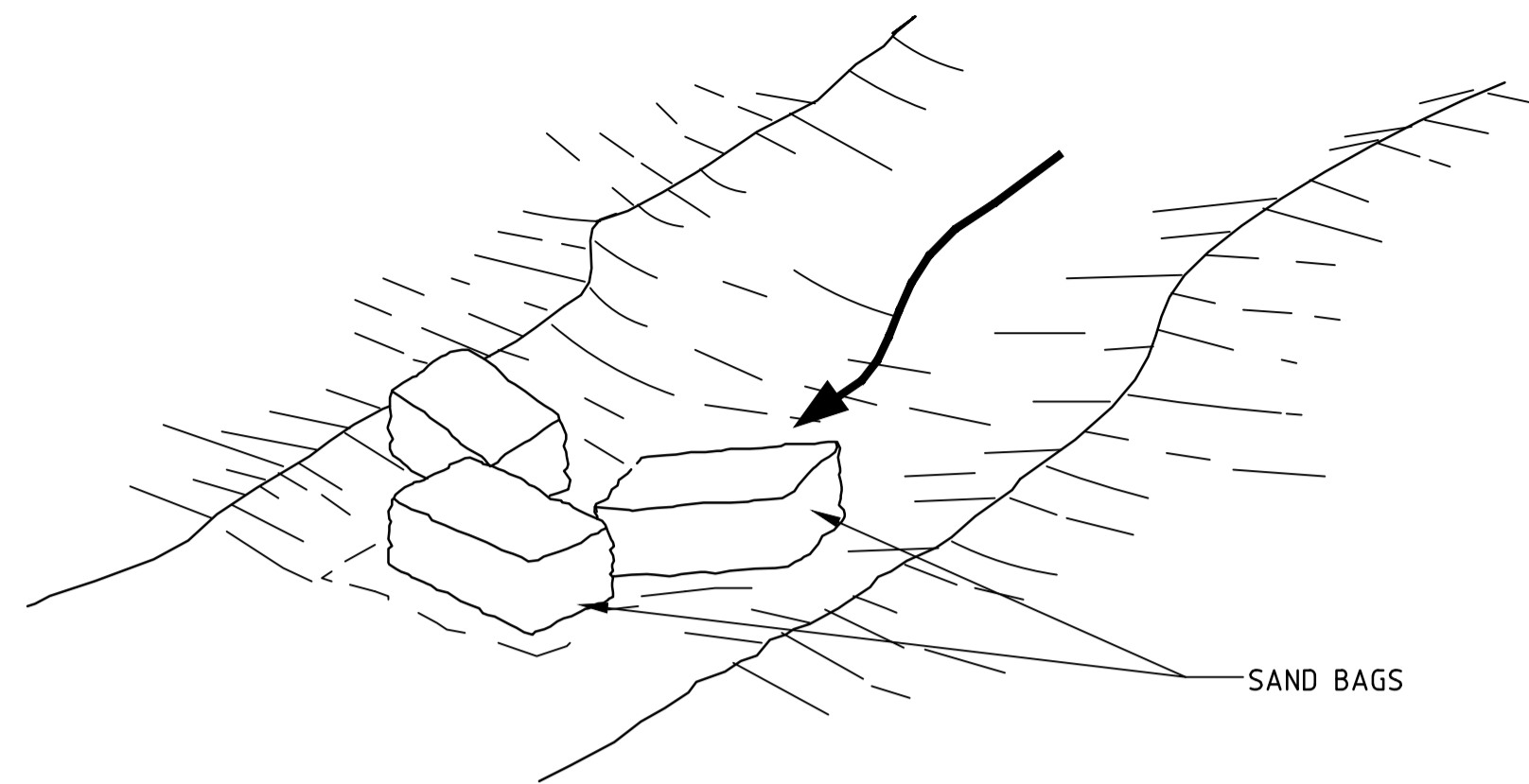
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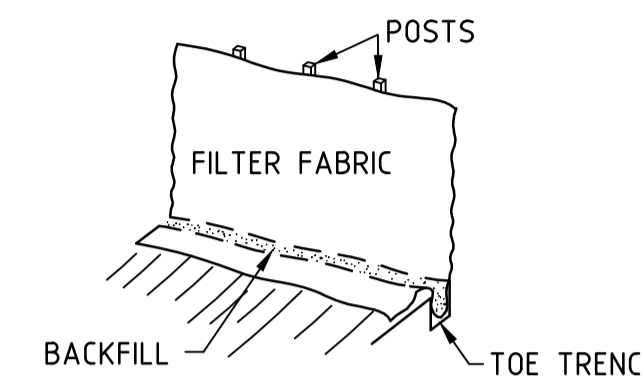
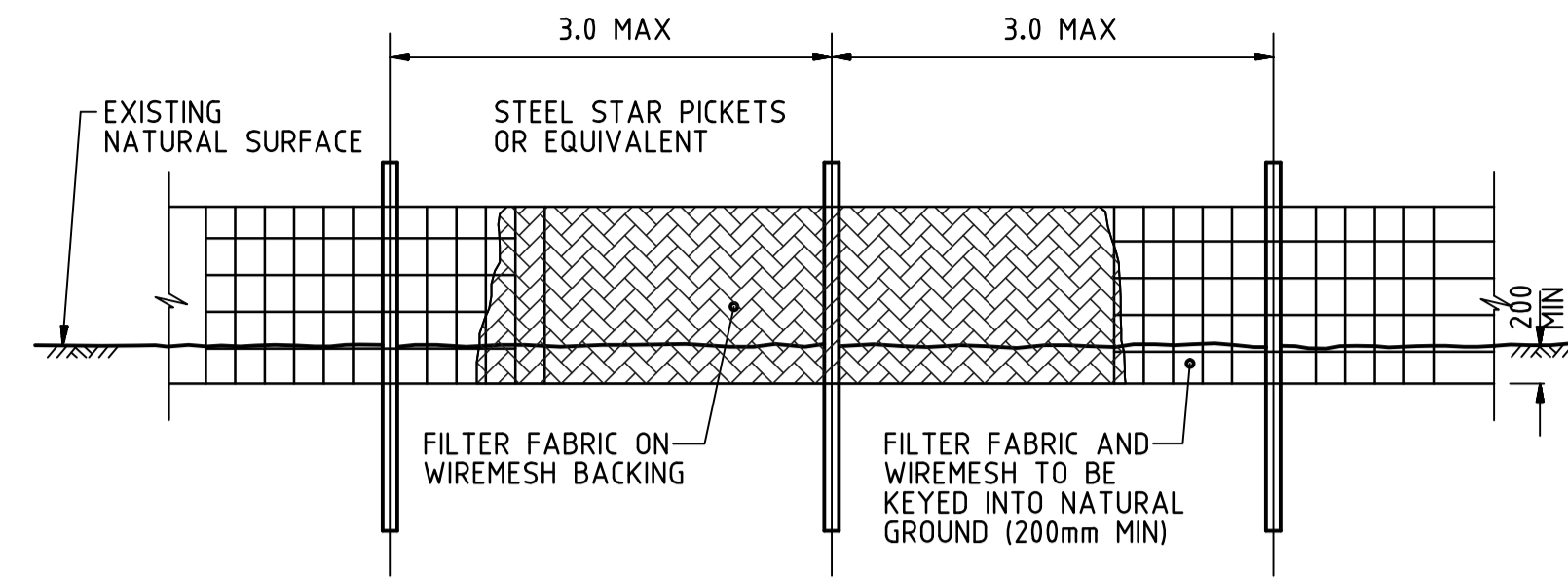
PROPOSED 1 INTO 6 LOT RECONFIGURATION
LOT 4 DP 1183225
50 SHARMAN CLOSE, HARRINGTON PARK. NSW 2567
SOIL AND WATER MANAGEMENT PLAN

DRAWING NUMBER
17C-567-DA-02

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SAND BAG OPEN DRAIN DETAIL



MAINTENANCE PROGRAM FOR SILT FENCES

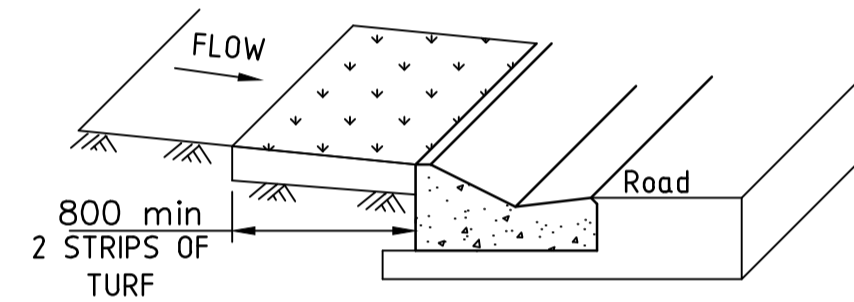
1. REGULAR INSPECTIONS WILL BE REQUIRED TO CONTROL DAMAGE CAUSED BY ON SITE VEHICLES OR MOVEMENT OF STOCKPILES.
2. INSPECTED AFTER EACH STORM EVENT THAT RESULTS IN RUN-OFF.
3. REMOVE EXCESS SEDIMENT DEPOSITS.
4. INVESTIGATE THE SOURCE OF ANY EXCESSIVE SEDIMENT.

NOTE: SILT MANAGEMENT

SILT FENCES ARE TO BE EMPLOYED WHERE CONDITIONS DURING CONSTRUCTION REQUIRE THE CONTROL OF ANY POSSIBLE SILT MOVEMENT ON THE SITE, AS DIRECTED BY THE SUPERVISOR.

TYPICAL SEDIMENT FENCE DETAIL

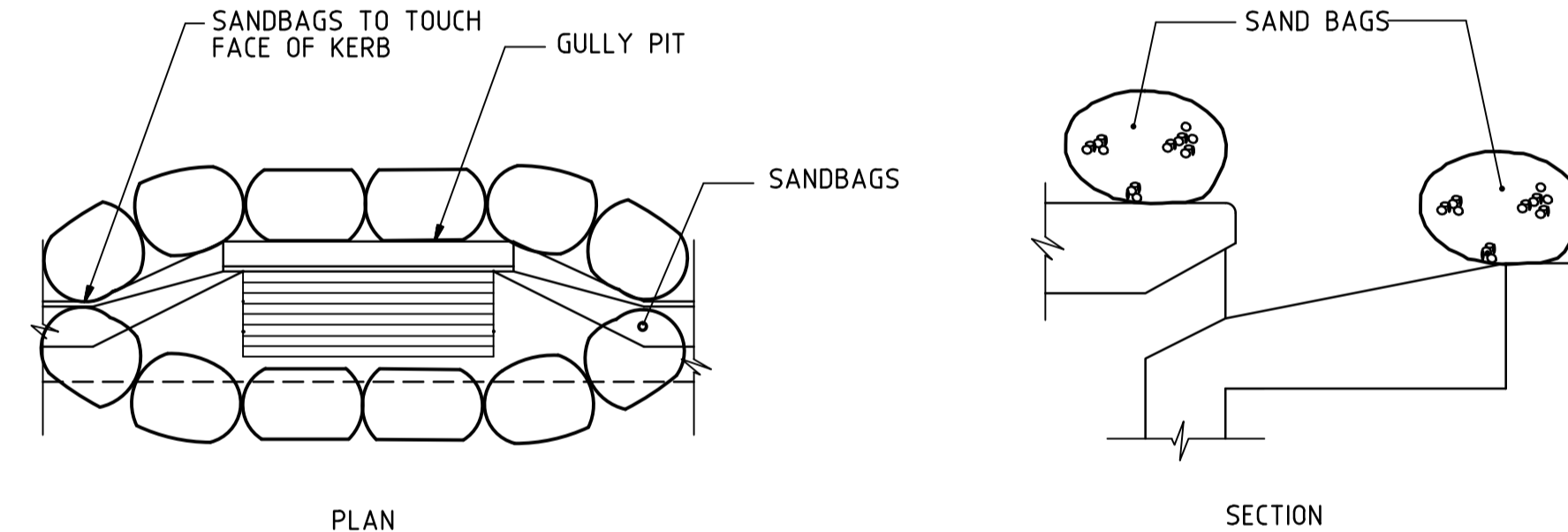
NTS



TURF FILTER STRIPS

MAINTENANCE PROGRAM FOR GRASS FILTER STRIPS

1. THE SIGNIFICANT BUILD UP ON FILTER STRIPS INDICATES INEFFICIENT ON SITE EROSION AND SEDIMENT CONTROLS. THE SOURCE OF ANY EXCESSIVE SEDIMENT DEPOSITS IS TO BE INVESTIGATED.



GULLY INLET PROTECTION DETAIL

NTS

MAINTENANCE PROGRAM FOR GULLY INLET PROTECTION

1. SAND BAGS TO BE PLACED AT ALL GULLY PITS WITHIN SEVEN DAYS OF SEALING ROADWAY AND PLACING TOPSOIL ON ADJACENT FOOTPATHS/ALLOTMENTS. SAND BAGS TO REMAIN IN POSITION UNTIL ADJACENT FOOTPATHS/ALLOTMENTS HAVE APPROXIMATELY
2. REGULAR INSPECTIONS AFTER EACH RUNOFF EVENT TO ENSURE THAT THE PROTECTION DEVICE IS STILL IN PLACE AND ANY EXCESSIVE SEDIMENT DEPOSITS ARE TO BE REMOVED.

SILT CONTROL PHASES DURING CONSTRUCTION

THE VARIOUS SILT CONTROL METHODS DURING CONSTRUCTION SHALL COMPLY WITH THE APPROVED PLANS. THE FOLLOWING PROGRAM SHALL BE USED AS A GENERAL GUIDE.

PHASE 1- PRELIMINARIES

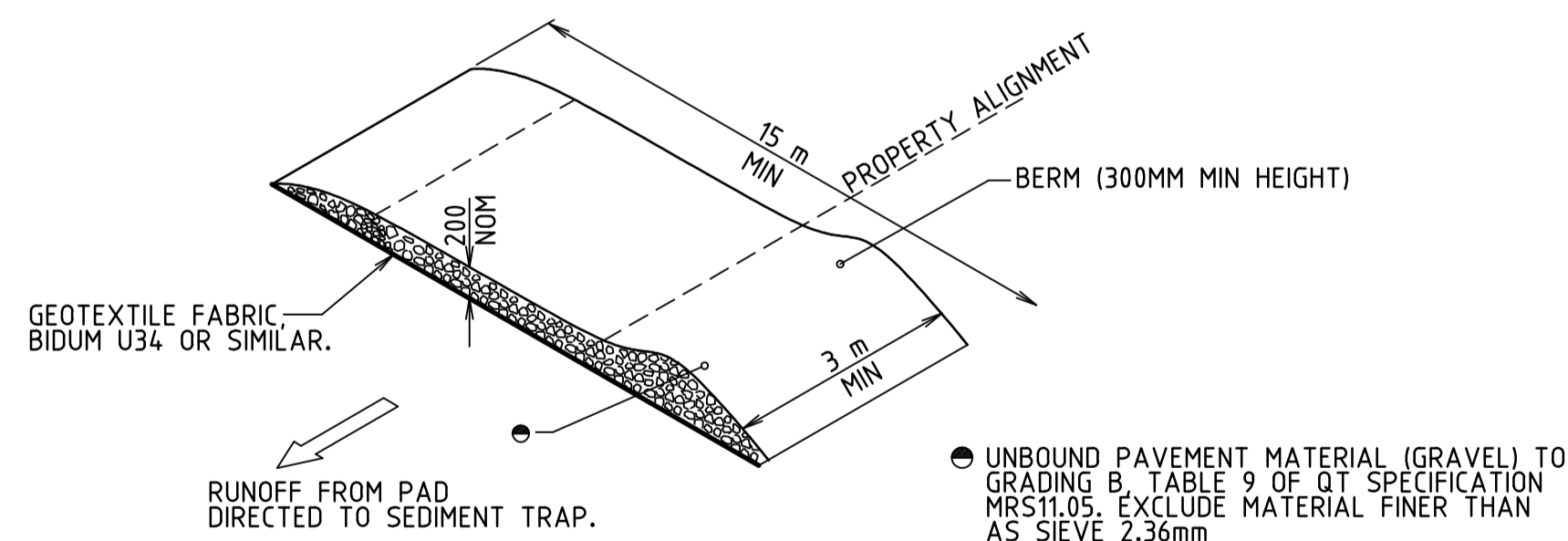
- a) AFTER RAINFALL EVENTS THE CONTRACTOR IS TO INSPECT THE SILT CONTROL DEVICES, ANY DAMAGE IS TO BE RECTIFIED IMMEDIATELY. ALL MEASURES ARE TO BE REGULARLY MAINTAINED.

PHASE 2- FINAL WORKS AND RE-ESTABLISHMENT OF GROUND COVER

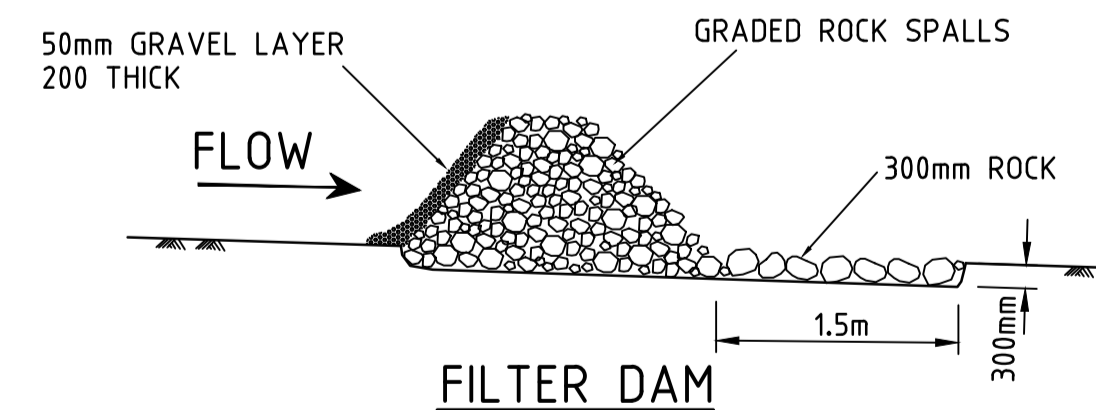
- a) ALL EXPOSED AREAS ARE TO BE GRASS SEED AS SOON AS PRACTICAL.
- b) CONTRACTOR TO ENSURE THAT THE MINIMUM 70% GRASS COVER IS ACHIEVED WITHIN 30 DAYS OF COMPLETION OF WORKS.
- c) MAINTAIN ALL SILT FENCES. ERECT ADDITIONAL SILT FENCES IF REQUIRED.
- d) ALL SILT FENCES TO BE REMOVED ONCE 80% GRASS COVER IS ACHIEVED. (TO BE CONFIRMED WITH SUPERVISING ENGINEER & B.C.C. OFFICER)

EROSION AND SEDIMENT CONTROL NOTES:

1. 400mm TURF TO EDGE OF DRIVEWAYS
2. 800mm TURF TO BACK OF KERB AND CHANNEL AND AROUND PROPERTY PITS.
3. PROVIDE INLET PROTECTION MEASURES TO ALL INLETS.
4. GRASS SEED ALL DISTURBED AREAS.
5. DUST CONTROL BY WATERING AS NECESSARY TO PREVENT VISIBLE DUST CLOUDS AT PROPERTY BOUNDARIES.

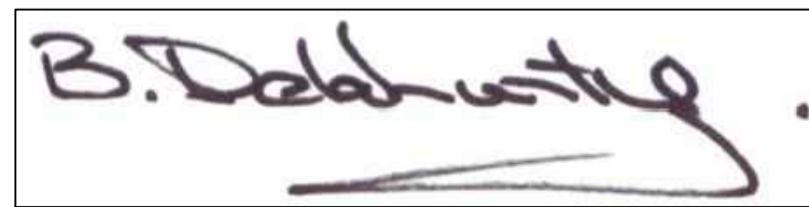



VEHICLE SHAKEDOWN



FILTER DAM

SILT MANAGEMENT DETAILS AND MAINTENANCE PROGRAMS.

						DESIGNED BRD DRAWN AS CHECKED BRD FILE No. 17C-567		SUITE 3, 30 COWPER ST. PARRAMATTA NSW 2150 Phone: 1300 009791 Mob: 0402 301 498 website: www.csmgroup.net.au email: info@csmgroup.net.au				PROPOSED 1 INTO 6 LOT RECONFIGURATION LOT 4 DP 1183225 50 SHARMAN CLOSE, HARRINGTON PARK. NSW 2567 SOIL AND WATER MANAGEMENT DETAILS			
A ISSUED FOR COUNCIL APPROVAL No. REVISION				B.R.D. 10/07/18 BY DATE		APPROVED BRUCE DELAHUNTY MIEAust. NER 3786934 DATE 5/09/2018		THIS DOCUMENT IS COPYRIGHT & THE PROPERTY OF CSM GROUP & MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY.		CIVIL STRUCTURAL MATERIALS HANDLING "Complete Design and Engineering Solutions"		DRAWING NUMBER 17C-567-DA-02		A	