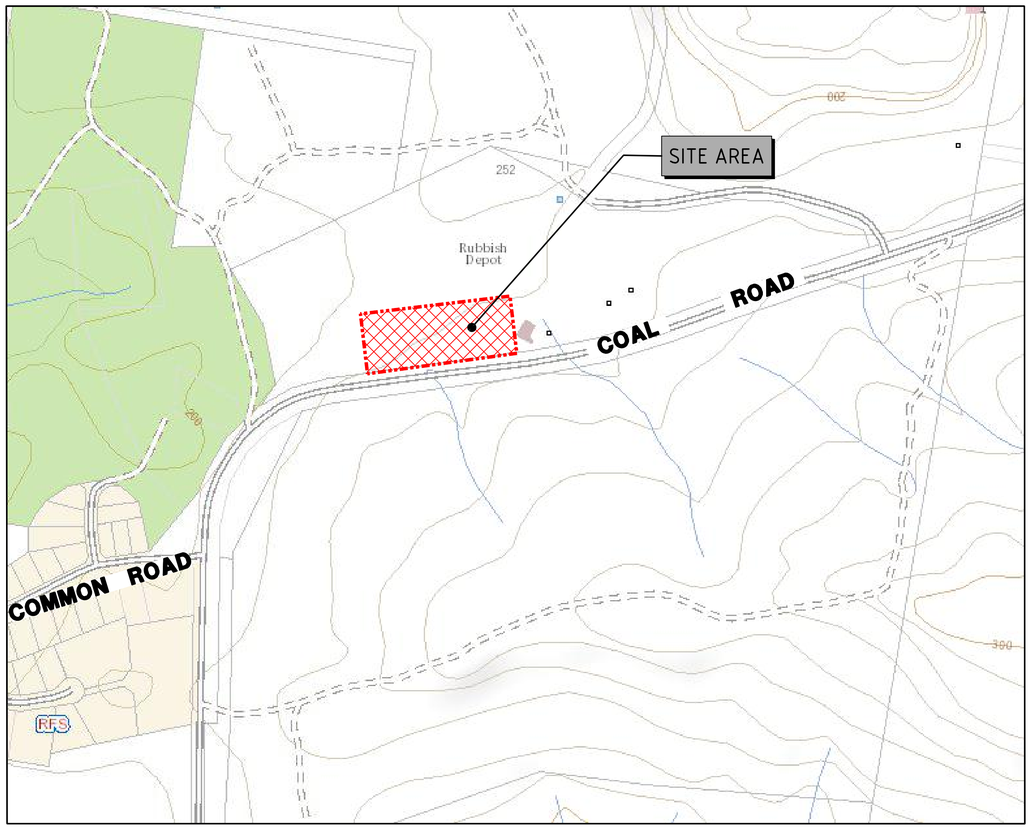
A1

MSC DEPOT
COMMUNITY RECYCLING CENTRE
COAL ROAD, MUSWELLBROOK
CIVIL ENGINEERING WORKS DRAWINGS

MUSWELLBROOK SHIRE COUNCIL



LOCALITY PLAN
N.T.S

DRAWING LIST

DRAWING No.	REV.	DRAWING TITLE
23098–DA01	C	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
23098–DA02	C	GENERAL NOTES
23098–DA03	C	GENERAL ARRANGEMENT PLAN
23098–DA04	C	EROSION AND SEDIMENT CONTROL PLAN
23098–DA05	C	EROSION AND SEDIMENT CONTROL DETAILS
23098–DA06	C	SITE REGRADING PLAN
23098–DA07	C	SITE REGRADING SECTIONS SHEET 1 OF 2
23098–DA08	C	SITE REGRADING SECTIONS SHEET 2 OF 2
23098–DA09	C	CIVIL AND STORMWATER WORKS PLAN SHEET 1 OF 2
23098–DA10	C	CIVIL AND STORMWATER WORKS PLAN SHEET 2 OF 2
23098–DA11	C	RAMP LONGITUDINAL SECTIONS
23098–DA12	C	STORMWATER CATCHMENT PLAN
23098–DA13	C	VEHICLE TURNING PATH PLAN SHEET 1 OF 5
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REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE: NOT TO SCALE

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

CLIENT:

FOR DA APPROVAL

THIS DRAWING SHALL ONLY BE USED FOR CONSTRUCTION WHEN PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

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PROJECT: **MUSWELLBROOK DEPOT**
CIVIL DESIGN CONCEPT

TITLE: COVER SHEET, DRAWING LIST AND LOCALITY PLAN

PROJECT No.: 23098 | DRG No.: DA01 | REV: C

GENERAL

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, SERVICES AND OTHER CONSULTANT DRAWINGS, THE SPECIFICATION AND OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE WORKS.
2. IF ANY DISCREPANCY OCCURS ON THE DRAWINGS OR BETWEEN DRAWINGS AND THE SPECIFICATION, THE CONTRACTOR SHALL REFER THE DISCREPANCY TO DIVERSI CONSULTING PTY LTD OR FOR WRITTEN CLARIFICATION BEFORE PROCEEDING WITH THE WORKS.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT S.A.A CODES, INCLUDING ALL REVISIONS, AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AND SERVICES AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
4. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCEWITH CURRENT OCCUPATIONAL HEALTH AND SAFETY STANDARDS. APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE WORKS.
5. ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. DRAWINGS MUST NOT BE SCALED.
6. DIMENSIONS AND REDUCED LEVELS ON PLANS ARE IN METRES. DIMENSIONS ON DETAILS ARE SHOWN IN MILLIMETRES.
7. ONLY SUBSTITUTIONS APPROVED IN WRITING BY DIVERSI CONSULTING PTY LTD SHALL BE ACCEPTED.
8. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRUCTURES AND WORKS IN A STABLE CONDITION AND SHALL ENSURE NO PART SHALL BE OVER STRESSED DURING CONSTRUCTION ACTIVITIES.

EXISTING SERVICES

.1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION ONLY. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
2. DIVERSI CONSULTING CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOW ON THESE DRAWINGS , ACCURATELY INDICATES THE PRESENCES OR ABSENCES OF SERVICES OF THEIR LOCATION AND WILL EXCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTRACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING:
   - JEMENA
   - AUSGRID
   - MUSWELLBROOK SHIRE COUNCIL
   - NBN, TELSTRA AND OPTUS
5. CONTRACTORS ARE TO UNDERTAKE A SERVICE SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

EARTHWORKS

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH AS3798.
3. STRIP ALL TOPSOIL / ORGANIC MATERIAL FROM CONSTRUCTION AREAS AND STOCKPILE ON SITE TO BE USED LATER SPREAD OR REMOVED FROM SITE AS DIRECTED BY THE SUPERINTENDANT.
4. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE FILL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
5. COMPACT IMPORTED FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD MAXIMUM DRY DENSITY (SMDD) (AS1289)
UNDER BUILDINGS ON GROUND	100%
UNDER ROADS AND CAR PARKS	100%
LANDSCAPED AREAS	95%

6. FOR NON-COHESIVE MATERIAL, COMPACT TO EQUIVALENT DENSITY INDEX IN ACCORDANCE WITH AS3798.
7. BEFORE PLACING FILL, PROOF ROLL THE SUBGRADE (AND EACH SUBSEQUENT PAVEMENT LAYER) WITH A 10 TONNE MINIMUM ROLLER TO DETECT AND THEN REMOVE ANY SOFT SPOTS (AREAS WITH MORE THAN 2MM INDENT OR MOVEMENT UNDER THE ROLLER).
8. IF ANY SOFT OR UNSUITABLE SUBGRADE MATERIAL IS FOUND, THEN THESE SHOULD BE LOCALLY EXCAVATED TO A SOUND BASE AND REPLACED WITH SELECT FILL AND COMPACTED IN LAYERS TO ACHIEVE THE DESIGN SUBGRADE DENSITY.
9. SELECT FILL SHALL CONSIST OF WELL GRADED GRANULAR MATERIAL AND HAVING A MAXIMUM PARTICLE SIZE OF 75MM AND A LOW PLASTICITY INDEX LESS THAN 15%.
10. DUE TO THE DEPTH OF FILL UNDERTAKE FIELD DENSITY TESTING IN ACCORDANCE WITH AS3798 TYPE 2 OPERATIONS. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN:

(A) 1 TEST PER LAYER OR 200mm THICKNESS PER 1000m3.

(B) 1 TEST PER 200m3 DISTRIBUTED REASONABLY EVENLY THROUGHT FULL DEPTH AND AREA.

11. FILLING TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 150MM.
12. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF THE DESIGN ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.
13. UNDERTAKE GEOTECHNICAL MONITORING DURING AND AFTER CONSTRUCTION TO MEASURE SETTLEMENT AND ENSURE STRUCTURAL STABILITY BY OBTAINING A SHORT STATEMENT OR LETTER FROM A GEOTECHNICAL ENGINEER DETAILING HOW THE FOUNDATIONS WILL BE STABILIZED TO PREVENT ISSUES FROM SIGNIFICANT FILL DEPTHS.

SITEWORKS

1. ORIGIN OF LEVEL - REFER TO SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO MINIMUM 98% STANDARD DENSITY IN ACCORDANCE WITH AS1289 5.1.1
5. PROVIDE 10MM WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
6. THE CONTRACTORS IS TO ASCERTAIN ALL AFFECTED SERVICES AND ALLOW FOR THE RELOCATION AND OR ADJUSTMENTS INCLUDING PITS , VALVES , PILLARS , POLES ETC.
7. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS , (ADJUSTMENTS OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
8. ALL FOOTWAYS AND LOTS TO BE HYDROSEEDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION.

STORMWATER

DEMOLITION:

1. REMOVE EXISTING PIPES WITHIN THE SITE WHICH DO NOT FORM PART OF THE PROPOSED STORMWATER DRAINAGE SYSTEM AND DISPOSE OFF SITE.

EXCAVATION AND TRENCHES:

2. EXCAVATE TRENCHES TO THE LINES, LEVELS AND GRADES SO THAT THEY ARE STRAIGHT AND EVEN BETWEEN PITS AND AS SHOWN ON THE DRAWINGS.
3. TRENCH WIDTH SHALL BE 300M WIDER THAN EXTERNAL PIPE DIMENSIONS UNO.
4. TRENCH AND PIT EXCAVATIONS DEEPER THAN 1.2M SHALL BE EITHER SUPPORTED WITH SHORING SYSTEMS, BATTERED WITH TEMPORARY BATTERS NOT EXCEEDING 1H:1V OR BENCHED IN ACCORDANCE WITH WORK COVER REQUIREMENTS.
5. EXCAVATE TRENCHES AND UNDER PITS TO PROVIDE A FIRM, UNIFORM AND STABLE BASE FREE FROM WATER.

SUBSOIL:

6. PROVIDE FLUSHING POINTS ON SUBSOIL DRAINAGE PIPES AT 30M CENTRES AND AT THE END OF PIPES.
7. AT EACH PIT, INSTALL 3.0M LENGTH OF 100DN SUBSOIL DRAINAGE PIPE WRAPPED IN GEOTEXTILE FABRIC SOCK TO UPSTREAM OF PIT.

PIPES:

8. ALL PIPES TO BE LAID STRAIGHT AND EVEN BETWEEN PITS, MANHOLES AND FORMED BENDS TO THE ALIGNMENT SHOWN ON THE DRAWINGS.
9. PIPE ALIGNMENTS SHALL NOT DEVIATE BY MORE THAN 25MM IN THE HORIZONTAL POSITION AND NOT MORE THAN 10MM IN THE VERTICAL POSITION UNO.
10. ALL PIPES TO BE LAID AT A MINIMUM GRADE OF 1% UNO.
11. ALL PIPES >300DN TO BE RCP CLASS 2 RUBBER RING JOINTS UNO.
12. ALL PIPES ≤300DN TO BE UPVC SEWER GRADE (SN4).
13. RCP TO BE INSTALLED USING PIPE SUPPORT TYPE HS2 IN ACCORDANCE WITH THE CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA INSTALLATION MANUAL.
14. UPVC PIPES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS3500.3.
15. PROVIDE PIPE BEDDING UNDER PIPES FOR THE FULL WIDTH OF THE TRENCH AND COMPACT PIPE BEDDING BY TAMPING, ROLLING OR VIBRATING TO A MINIMUM DENSITY INDEX OF 60 UNO.
16. PIPE BEDDING AND HAUNCH ZONE MATERIAL TO BE A COARSE SAND WITH LOW PLASTICITY UNO.
17. PLACE AND COMPACT HAUNCH ZONE MATERIAL DEPTH TO 0.3 TIMES THE PIPE OUTSIDE DIAMETER.
18. PLACE AND COMPACT SIDE SUPPORT AND OVERLAY MATERIALS TO PROVIDE A COVER OF NOT LESS THAN 150mm UNO ON PIPES WITH <375MM DIAMETER AND 300mm FOR PIPES ≥375mm DIAMETER.
19. PIPE SIDE SUPPORT MATERIAL AND OVERLAY TO BE A 10MM GRAVEL UNO AND COMPACTED IN LAYERS NOT EXCEEDING 150MM TO ACHIEVE A MINIMUM DENSITY INDEX OF 60 UNO.
20. BACKFILL TRENCHES WITH CONTROLLED SELECT GRANULAR FILL (<75MM) OF LOW PLASTICITY (PI<15) TO UNDERSIDE OF PAVEMENTS COMPACTED TO 95% SMDD AND IN THE UPPER 300MM OF THE SUBGRADE TO 100%SMDD.
21. BACKFILL TRENCH IN LAYERS NOT EXCEEDING 150MM.
22. COMPACTION SHALL BE MONITORED BY FIELD TESTING IN ACCORDANCE WITH AS1289.
23. PROVIDE DENSITY TESTS IN EACH TRENCH BETWEEN PITS. PROVIDE 1 TEST PER 2 LAYERS PER 50M2 OF TRENCH.

PITS AND MANHOLES:

24. SETOUT POINTS TO ALL PITS TO BE CENTRE OF GRATE AT KERB INVERT FOR KERB INLET PITS AND CENTRE OF OUTLET PIPE FOR ALL OTHER PITS.
25. ALL PIT SURFACE LEVELS SHALL NOT DEVIATE BY MORE THAN ±10MM FROM THE DESIGN LEVEL.
26. THE CONTRACTOR IS TO ENSURE THE PIT ORIENTATION MATCHES THE ROAD KERB ALIGNMENT, SURFACE LEVELS, PAVEMENT JOINTS AND OTHER CIVIL STRUCTURES.
27. CONSTRUCT STORMWATER PITS AND MANHOLES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE PIT AND PIPE SCHEDULE.
28. ALL GRATES AND COVERS TO BE CLASS D UNO.
29. ALL PIT GRATES OR COVER COMPONENTS AND PARTS TO BE LIFTED TO BE LESS THAN 20KG.
30. PROVIDE HINGED GRATES TO ALL PITS UNO.
31. ALL KERB INLET PITS TO HAVE A PRECAST CONCRETE PROPRIETARY KERB INLET LINTEL.
32. ALL KERB INLET PITS TO HAVE A GALVANISED EQUAL ANGLE 75X10MM ON THE SUPPORTING FACE.
33. CONSTRUCT PIPELINES AT PITS SO THAT DISCHARGE FROM INLET PIPES IS DIRECTED TO OUTLET PIPES AND NOT TO WALLS OR OTHER INLET PIPES.
34. PROVIDE 75MM MINIMUM OF CONCRETE BENCHING AT THE BOTTOM OF EVERY STORMWATER PIT AND CHAMBER TO CREATE A CHANNEL FROM EACH INLET TO THE OUTLET PIPE INVERT.
35. FINISH ALL INLET AND OUTLET PIPES FLUSH WITH PIT WALLS.
36. ALL STORMWATER PITS GREATER THAN 1.2M DEEP TO HAVE STEP IRONS INSTALLED AT 800MM CENTRES VERTICALLY STAGGERED AND 200MM CENTRES HORIZONTALLY.
37. MINIMUM INTERNAL PLAN DIMENSIONS FOR PITS AND GRATES AS FOLLOWS:
   - < 450MM DEEP PIT - PIT TO BE 300X300MM
   - >450MM, < 600MM DEEP PIT - PIT TO BE 450X450MM
   - >600MM, <900MM DEEP- PIT TO BE 600X600MM,
   - >900MM, <1200MM DEEP - PIT TO BE 600X900MM,
   - >1200MM DEEP - TO BE 900X900MM.
38. PVC TYPE PITS ARE NOT PERMITTED UNO.
39. PRECAST PITS MAY BE USED SUBJECT TO APPROVAL BY DIVERSI CONSULITNG.
40. SUBJECT TO APPROVAL OF DIVERSI CONSULTING, PRECAST PITS TO BE LAID ON A 100MM CONCRETE BASE AND BACKFILLED AROUND PITS WITH CONCRETE TO HALF THE PIT HEIGHT.

RIP-RAP SCOUR PROTECTION:

41. THE THICKNESS OF THE RIP-RAP PROTECTION SHALL BE A MINIMUM OF TWICE THE D_{50} STONE SIZE SPECIFIED ON THE DRAWINGS. D_{50}=250mm U.N.O.
42. THE STONE SHALL BE REASONABLY WELL GRADED THROUGHOUT THE RIP-RAP LAYER. STONE SIZES SHALL BE DEPENDENT ON THE D50 VALUE SPECIFIED ON THE DRAWINGS. D_{15} SHALL BE 0.5 x D_{50} AND D_{90} SHALL BE 1.35 x D_{50}. STONES SMALLER THAN THE SPECIFIED D_{15} ARE NOT TO EXCEED 20% BY WEIGHT OF EACH LOAD.
43. ROCK IS TO BE HARD, DENSE, DURABLE, RESISTANT TO WEATHERING AND ANGULAR IN SHAPE. IT SHALL BE FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATTER. ROCK THAT IS LAMINATED, FRACTURED, POROUS OR OTHERWISE PHYSICALLY WEAK WILL BE UNACCEPTABLE.
44. AN APPROXIMATE GUIDE TO STONE SHAPE IS THAT THE BREADTH OR THICKNESS OF A SINGLE STONE SHOULD BE NOT LESS THAN ONE-THIRD ITS LENGTH. ROUND MATERIAL CAN BE USED AS RIP-RAP PROVIDED IT IS NOT PLACED ON SLOPES GREATER THAN 3H:1V.
45. STONE SHOULD BE DARK IN COLOR EITHER GRAY OR DARK BROWN SIMILAR TO SOIL PROFILE.
46. BIDIM A44 GEOTEXTILE SHALL BE USED UNDER RIP-RAP.
47. ROCKS AND ROCK BOULDERS HAVE A RELATIVE DENSITY OF 2.2 TO 2.8.

KERBS

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA U.N.O.
2. ALL KERBS , GUTTERING , DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 150MM GRANULAR BASECOURSE COMPACTED TO 100% MAXIMUM MODIFIED DRY DENSITY (AS1289 5.2.1).
3. EXPANSION JOINTS (EJ) TO BE FORMED 10MM COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS , ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSIONS JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS,
4. WEAKENED PLANE JOINTS TO BE MIN 3MM WIDE AND LOCATED 3M CENTRE EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINTS LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOATED FINISH.
6. EXISTING KERB AND GUTTERING IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTERING IS SHOWN.

PAVEMENTS

PEDESTRIAN PAVEMENTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS UNO.
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENTS TO CURVES AND ELSEWHERE AT MAXIMUM 6M CENTRES.
3. WEAKENED PLANE JOINTS, TOOLED JOINTS OR SAWN JOINTS ARE TO BE LOCATED AT MAXIMUM SPACING OF 1.5 TIMES THE WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHALL BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENTS.

CONCRETE ROAD PAVEMENTS

5. ALL VEHICULAR PAVEMENTS ARE TO BE JOINTED AS SHOWN ON DRAWINGS.
6. CONCRETE SLABS TO BE MINIMUM 3.5M AND MAXIMUM 12M LONG.
7. CONCRETE SLABS TO BE MINIMUM 1M AND MAXIMUM 4.3M WIDE.
8. TRANSVERSE DOWELLED JOINTS SHALL BE PROVIDED AT MAXIMUM 12M CENTRES UNO.
9. TIED LONGITUDINAL JOINTS SHALL BE PROVIDED AT MAXIMUM 4.3M CENTRES UNO.
10. THE MAXIMUM WIDTH OF TIED SLABS SHALL NOT EXCEED 15 METRES.
11. PROVIDE N250 GRADE DOWELS AS SHOWN ON THE DRAWINGS.
12. DOWELS MUST BE LOCATED NOT CLOSER THAN 150MM TO A LONGITUDINAL JOINT. THE TYPICAL OFFSET TO THE FIRST DOWEL MUST NOT EXCEED 250MM.
13. PROVIDE SUPPORTS FOR DOWELS TO ENSURE THAT DOWELS ARE PERPENDICULAR TO THE JOINT IN BOTH VERTICAL AND HORIZONTAL ALIGNMENT
14. DEBOND END OF DOWEL IN SECOND CAST SLAB ONLY.
15. SAW CUT PAVEMENT AS SOON AS CONCRETE HAS CURED SUFFICIENTLY TO ENABLE CUTTING WITHOUT SPALLING OF THE SURFACE AND JOINTS.
16. ALL FORMED JOINTS IN THE BASE SHALL BE DEBONDED IN ACCORDANCE WITH THE SPECIFICATION.
17. WHERE SAW CUT JOINTS ARE SHOWN AT FORMED JOINTS, THE SEALANT RESERVOIR MAY BE CREATED BY SAW CUTS OR BY FIXING A TEMPORARY FILLER TO THE FIRST PLACED FACE.

FLEXIBLE PAVEMENTS

18. ASPHALTIC CONCRETE SHALL CONFORM TO RMS FORM R116.
19. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051 (UNBOUND) , RMS FORM 3052 (BOUND) COMPACT TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS1289 5.2.1 FREQUENCY OF COMPACTION TEST SHALL NOT BE LESS THAN 1 TEST PER 200M3 OF BASECOURSE MATERIAL PLACED.
20. ALL SUB BASE COURSE MATERIAL SHALL BE QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS1289 5.2.1
21. PRIOR TO PLACING PAVEMENT MATERIALS, PROOF ROLL THE SUBGRADE (AND EACH SUBSEQUENT PAVEMENT LAYER) WITH A 10 TONNE MINIMUM ROLLER.
22. BEFORE PLACING PAVEMENT MATERIAL, PROOF ROLL EXPOSED SURFACE WITH A 10 TONNE MINIMUM ROLLER TO DETECT AND THEN REMOVE ANY SOFT SPOTS (AREAS WITH MORE THAN 2MM INDENT OR MOVEMENT UNDER THE ROLLER).
23. IF ANY SOFT OR UNSUITABLE SUBGRADE MATERIAL IS FOUND, THEN THESE SHOULD BE LOCALLY EXCAVATED TO A SOUND BASE AND REPLACED WITH SELECT FILL AND COMPACTED IN LAYERS TO ACHIEVE THE DESIGN SUBGRADE DENSITY.

TRAFFIC LINES & SIGNS

1. ALL PAVEMENT MARKING AND SIGNPOSTING TO BE ACCORDANCE WITH 'INTERIM GUIDE TO SIGNS AND MARKINGS' (RMS) AND AS1742.
2. ALL LINE MARKING TO BE WHITE U.N.O (DULUX ROAD MASTER OR EQUIVALENT).
3. TRANSITION LINE MARKING TO SUIT EXISTING WHERE REQUIRED.
4. RELOCATE/REMOVE EXISTING SIGNS AS REQUIRED,
5. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
6. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
7. PROVIDE REFLECTORISED PAVEMENT MARKERS TO COUNCIL AND RMS REQUIREMENTS

CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS , EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORM WORK AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SLUMP	SPECIFIED SIZE NOMINAL AGG.
VEHICULAR BASE AND DRIVEWAYS	32	60	20
KERBS , PATHS , PITS	25	80	20

   - CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
   - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS1379, SECTION 6.3.3.
3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENTS FOR DURABILITY SHALL BE 70MM TOP AND 70MM FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENTS SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS , PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1M CENTRE BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS , COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH RMS SPECIFICATIONS R83.
7. REINFORCEMENT SYMBOLS
   S DENOTES GRADE 230 S HOT ROLLED DEFORMED BARS TO AS1302
   N DENOTES GRADE 450 N BARS TO AS1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAN BARS TO AS1302
   F DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS1304
   W DENOTES HARD-DRAWN PLAN WIRE TO AS1303
   EG 17N20-250
   - 17 DENOTES NUMBER OF BARS IN GROUP
   - N DENOTES GRADE OF STEEL REINFORCEMENT
   - 20 DENOTES SIZE OF REINFORCEMENT BARS
   - 250 DENOTES SPACING IN MM

   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS1304.
8. FABRIC SHALL BE LAPPED BY 225MM MINIMUM. ENSURE 25MM HORIZONTAL DISTANCE BETWEEN OVERLAPPING REINFORCING BARS.

SURVEY SETOUT NOTES

1. THE CONRACTOR SHALL SETOUT THE WORKS AS SHOWN ON THE APPROVED CONSTRUCTION CERTIFICATE DRAWINGS OR THE APPROVED FOR CONSTRUCTION DRAWINGS.
2. A REGISTERED SURVEYOR IS TO CERTIFY ALL SETOUT POINTS.
3. FOR THE "CONVENIENCE OF THE CONTRACTOR", ELECTRONIC SETOUT INFORMATION WILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
4. INFORMATION DETAILED ON APPROVED CONSTRUCTION CERTIFICATE PLANS TAKES PRIORITY OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR ISSUED INFORMATION IS AS FOLLOWS:
   a. APPROVED CONSTRUCTION CERTIFICATE OR APPROVED FOR CONSTRUCTION DRAWINGS
   b. 2D DRAFTING BASE (CAD ELECTRONIC FILE)
   c. DIGITAL TERRAIN MODEL (DTM) OR SIMILAR ISSUED IN ELECTRONIC FORMAT
5. THE SUPERINTENDENT IS TO BE INFORMED OF ANY DISCREPANCY BETWEEN ISSUED INFORMATION AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PRIOR TO WORKS BEING UNDERTAKEN. UPON REVIEW, THE SUPERINTENDENT WILL THEN SEEK CLARIFICATION AND PROVIDE INSTRUCTION ON HOW TO PROCEED.

NOTE:
-SITE SURVEY BY CCG ARCHITECTS PTY. LTD.
- EXISTING SURFACE COMPRISED OF GROUND SURVEY AND LIDAR DATA PROVIDED BY NSW GOVERNMENT SPATIAL SERVICES.
-SITE SURVEY TO BE VERIFIED PRIOR TO CONSTRUCTION.

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PROJECT: **MUSWELLBROOK DEPOT**
CIVIL DESIGN CONCEPT

TITLE: GENERAL NOTES

PROJECT No.: 23098 | DRG No.: DA02 | REV: C

A1

Wednesday, 26 March 2025 1:02:14 PM C:\USERS\JOHN.CLARK\DIVERSI CONSULTING\DP - D DRIVE\3_PROJECTS\23023\23098 - MUSWELLBROOK DEPOT\5.DRAWING\23098-DA03

LEGEND:

- ALIGNMENT CONTROL LINE
- LIMIT OF WORKS
- SITE BOUNDARY
- EXISTING ADJACENT BOUNDARY
- PROPOSED LOT BOUNDARY
- K&G — PROPOSED KERB & GUTTER
- PROPOSED AC PAVEMENT
- PROPOSED CONCETE PAVEMENT
- PROPOSED STORMWATER PIT AND PIPE
- TABLE DRAIN
- A-3 — STORMWATER PIT TAGS
- PROPOSED RETAINING WALL
- EXISTING TREES
- EXISTING OVERHEAD ELECTRICAL

ELECTRICAL TRANSMISSION EASEMENT

DD

KG

MK

14.50

3.83

LOWER FFL 222.15

UPPER FFL 225.15

FUELLING BAY

WASH BAYS

SMALL SCRIP TRUCK BAY

RECYCLING SHED

COAL ROAD

BENCHMARK
NORTHING: 303699.389
EASTING: 6428872.468
HEIGHT 230.924

254
DP 822169

DIAL BEFORE YOU DIG
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REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
B	31/01/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
1:500 (A1), 1:1000 (A3)
10.0m 5.0 0 10.0 20.0 30.0m
1:500
DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

CLIENT:

FOR DA APPROVAL

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DIVERSI CONSULTING
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W www.diversi.com.au

PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
GENERAL ARRANGEMENT PLAN

PROJECT No.: 23098 | DRG No.: DA03 | REV: C

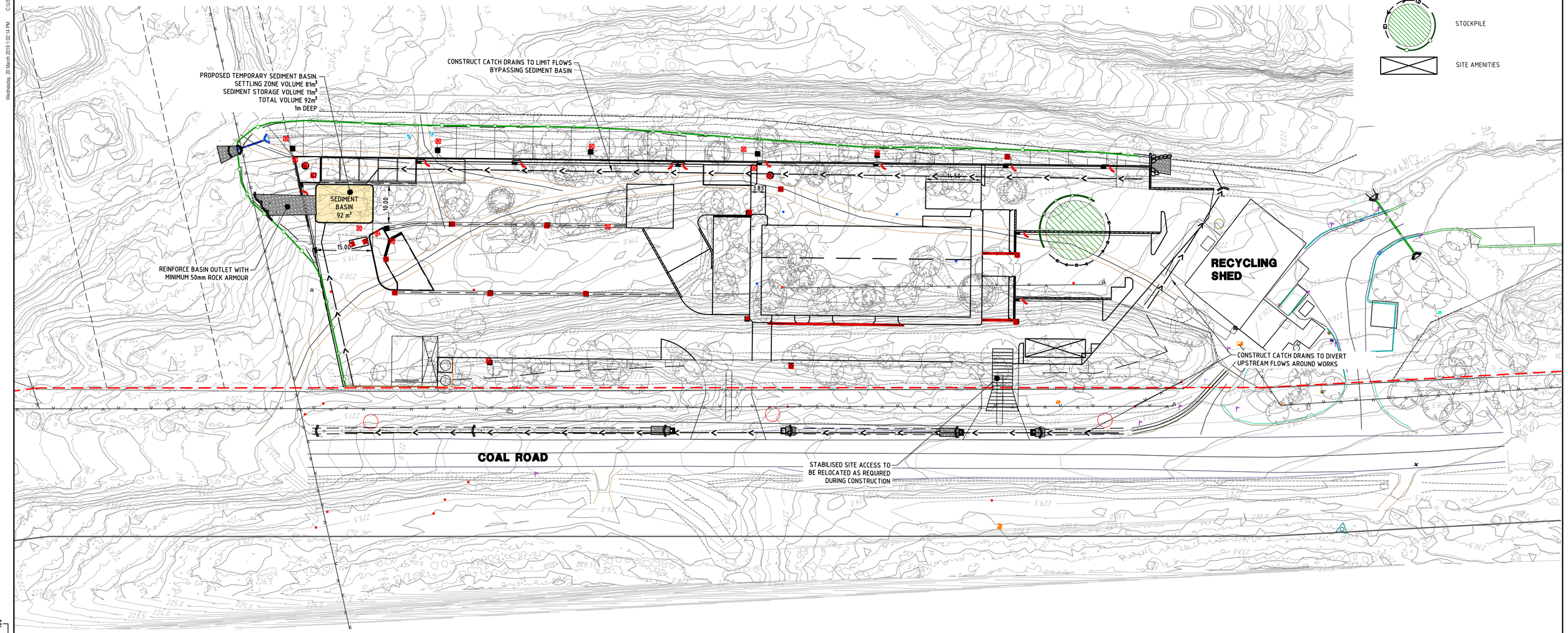
A1

NOTES:

1. THIS SEDIMENT & EROSION CONTROL PLAN IS PROVIDED AS A GUIDE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING & MAINTAINING ALL SEDIMENT & EROSION CONTROL FENCES IN ACCORDANCE WITH THE NSW DEPT OF HOUSING MANUAL " MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION" 4TH EDITION, MARCH 2004 (i.e, "THE BLUE BOOK")

LEGEND:

- ALIGNMENT CONTROL LINE
- LIMIT OF WORKS
- SITE BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING ADJACENT BOUNDARY
- SILT FENCE
- CD — CATCH DRAIN
- 91.0 — EXISTING CONTOUR (0.5m INTERVAL)
- STABILISED SITE ACCESS
- INLET SEDIMENT BARRIER (ISB)
- PROPOSED STORMWATER PIT AND PIPE
- PROPOSED RETAINING WALL
- STOCKPILE
- SITE AMENITIES



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1:500 (A1), 1:1000 (A3)

1:500 10.0m 5.0 0 10.0 20.0 30.0m

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PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROJECT No.:	DRG No.:	REV:
23098	DA04	C

A1

4. Volume of Sediment Basins, *Type D* and *Type F* Soils

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for *Type F* and *Type D* soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's surface area and depth to allow for particles to settle and can be determined by the following equation:

$$V = 10 \times C_v \times A \times R_{x\text{-day},\ y\text{-\%ile}}\ (m^3)$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the

$R_{x\text{-day},\ y\text{-\%ile}}$ = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

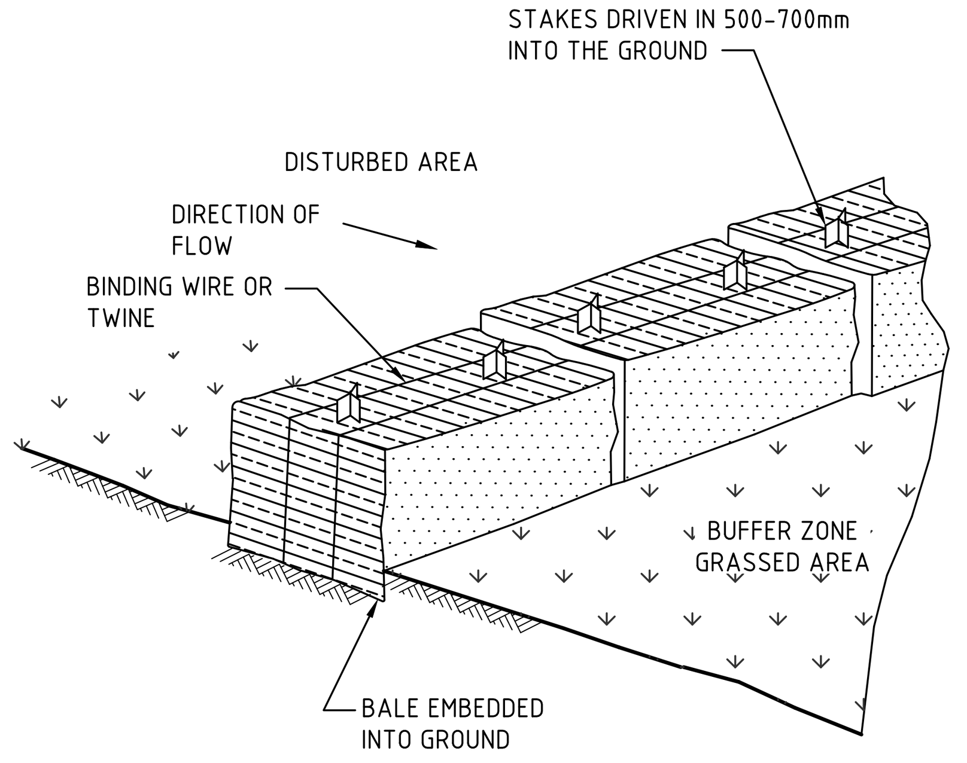
In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(ii)). However, on Soil Loss Classes 5, 6 and 7 lands, the zone must contain the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii).

Place an "X" in the box below to show the sediment storage zone design parameters used

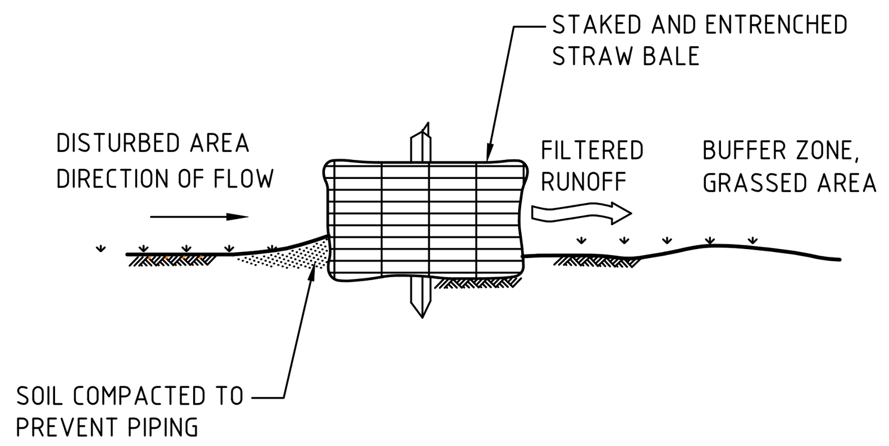
	50% of settling zone capacity,
X	2 months soil loss calculated by RUSLE

Total Basin Volume

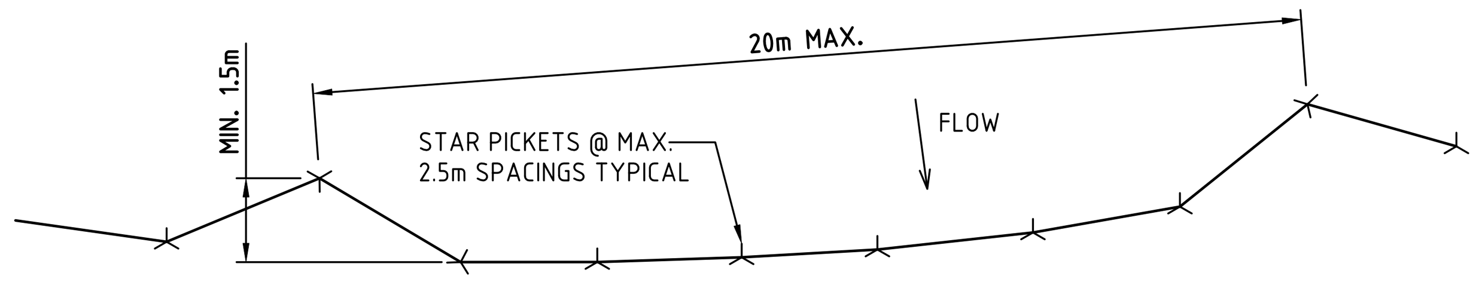
Site	C_v	$R_{x\text{-day},\ y\text{-\%ile}}$	Total catchment area (ha)	Settling zone volume (m^3)	Sediment storage volume (m^3)	Total basin volume (m^3)
CAT 1	0.35	19	1.22	81	11	92



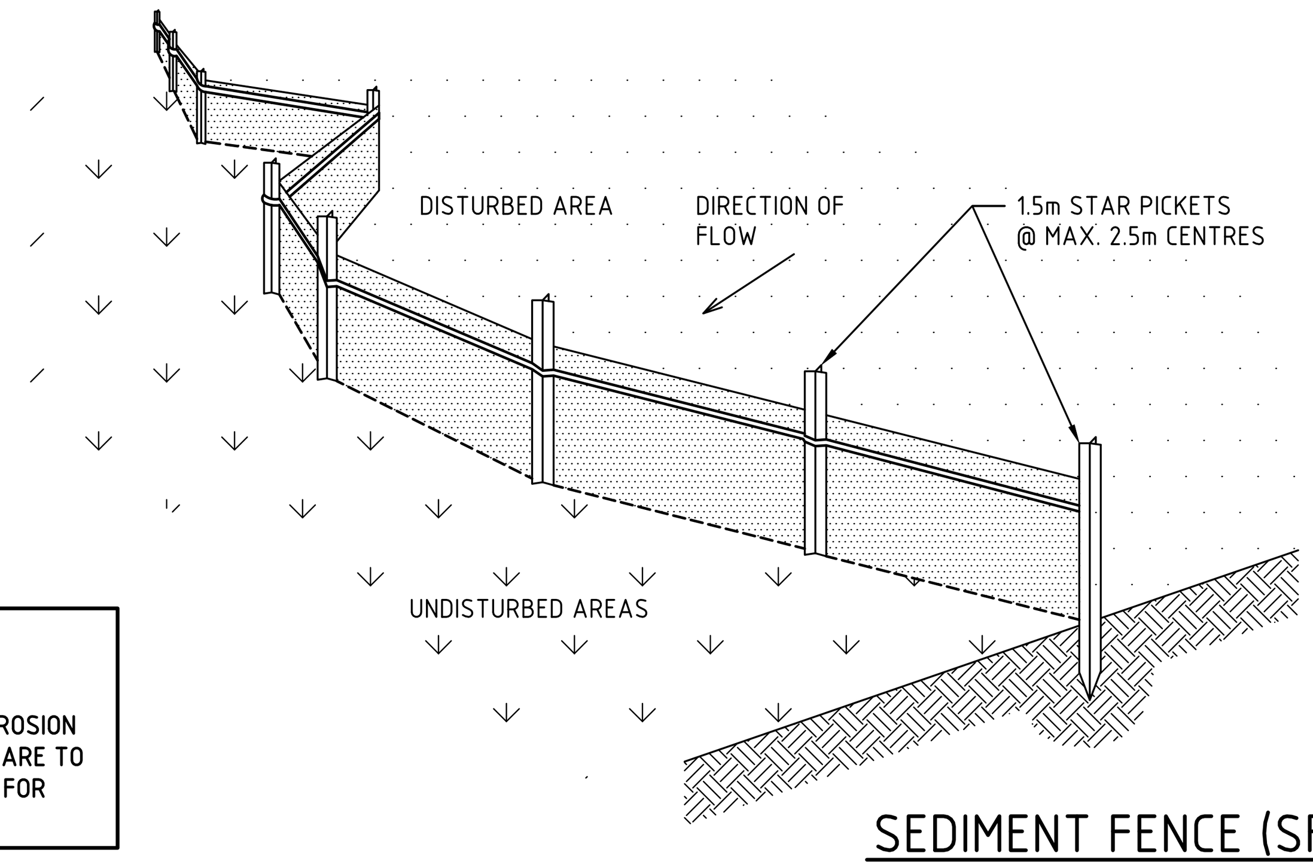
TYPICAL STRAW BALE BUND
SCALE N.T.S.

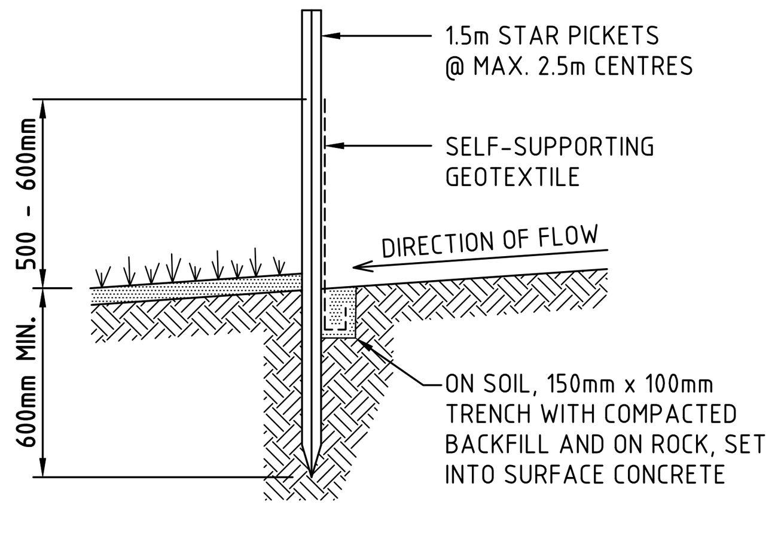


SECTION STRAW BALE BUND
SCALE N.T.S.



PLAN



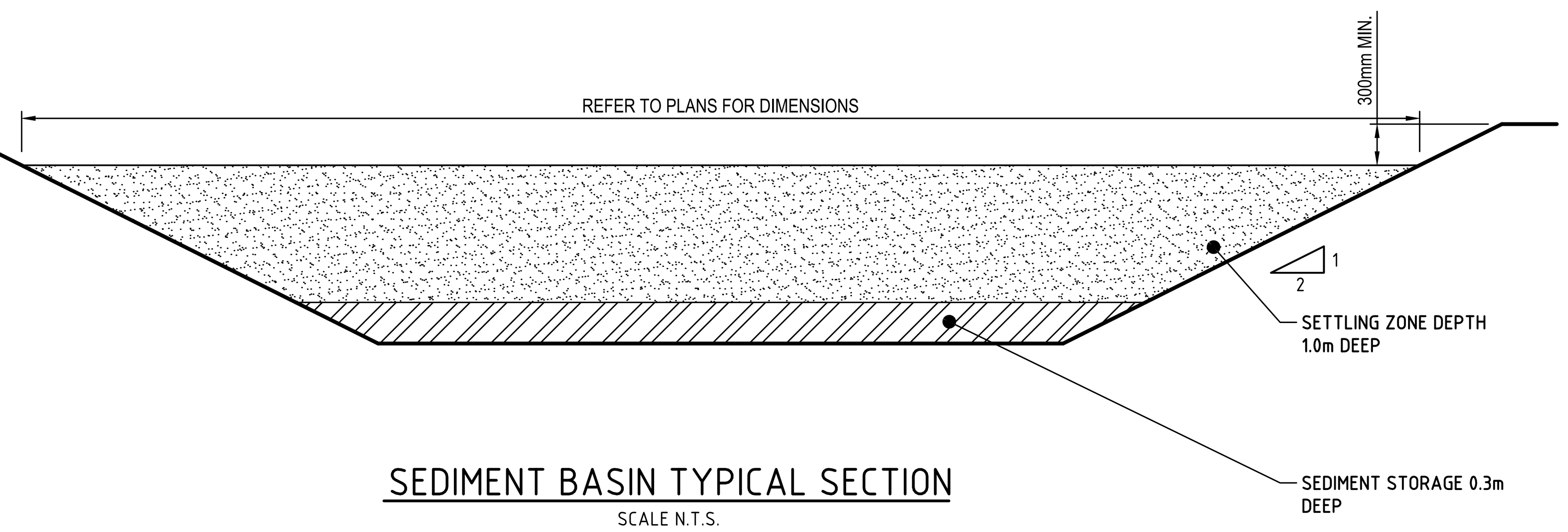


SECTION DETAIL

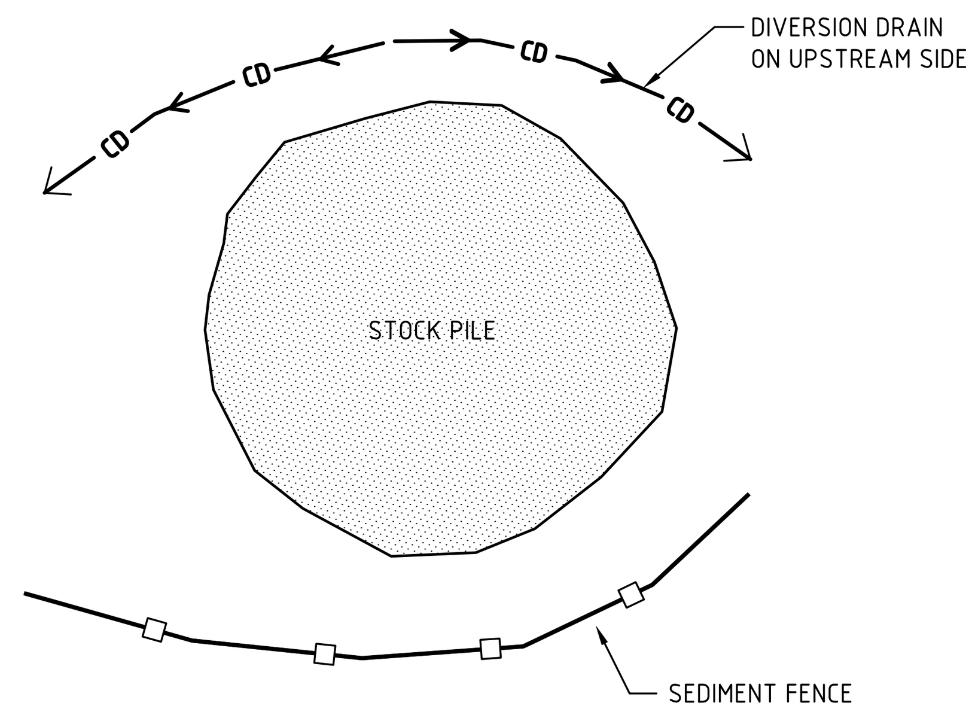
SEDIMENT FENCE (SF)
SCALE N.T.S.

SEDIMENT BASIN NOTES:

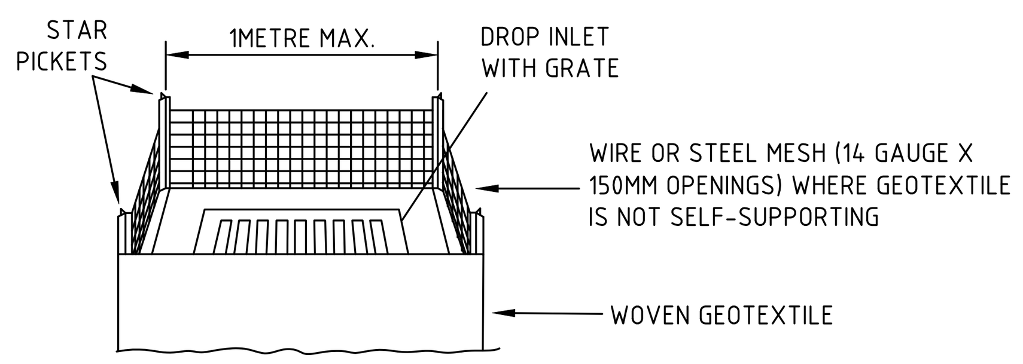
1. INSPECTIONS TO BE UNDERTAKEN AFTER STORM EVENTS TO CHECK EROSION AND SEDIMENTS CONTROLS. INSPECTION DATES AND ACTIONS TAKEN ARE TO BE RECORDED IN BY THE SITE SUPERVISOR AND BE MADE AVALIABLE FOR REVIEW UPON REQUEST.

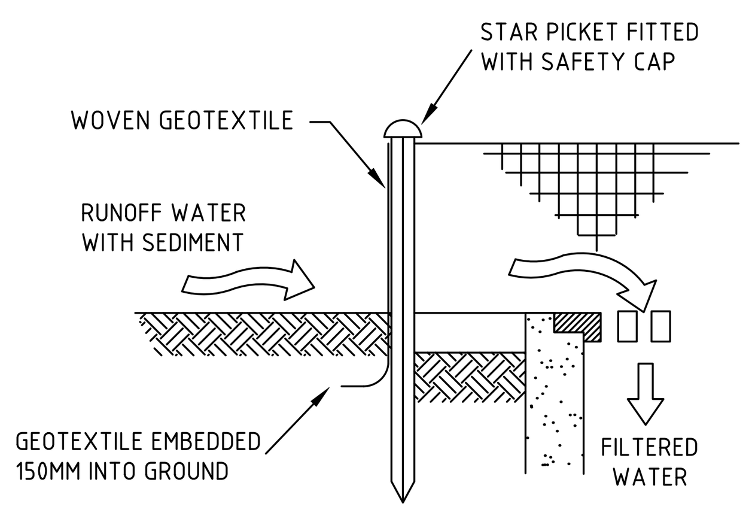


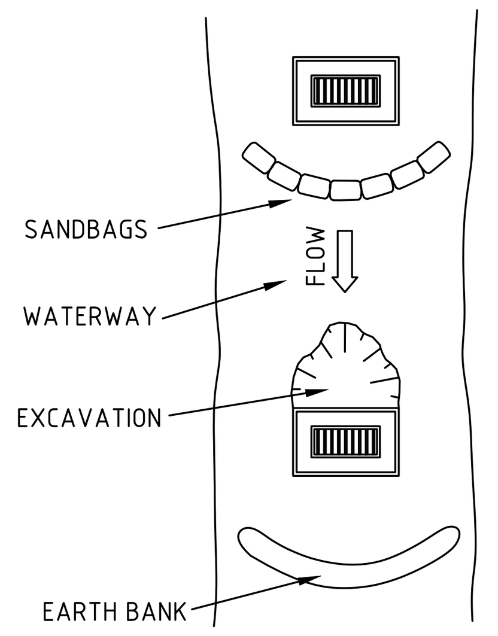
SEDIMENT BASIN TYPICAL SECTION
SCALE N.T.S.



STOCKPILE PLAN
SCALE N.T.S.





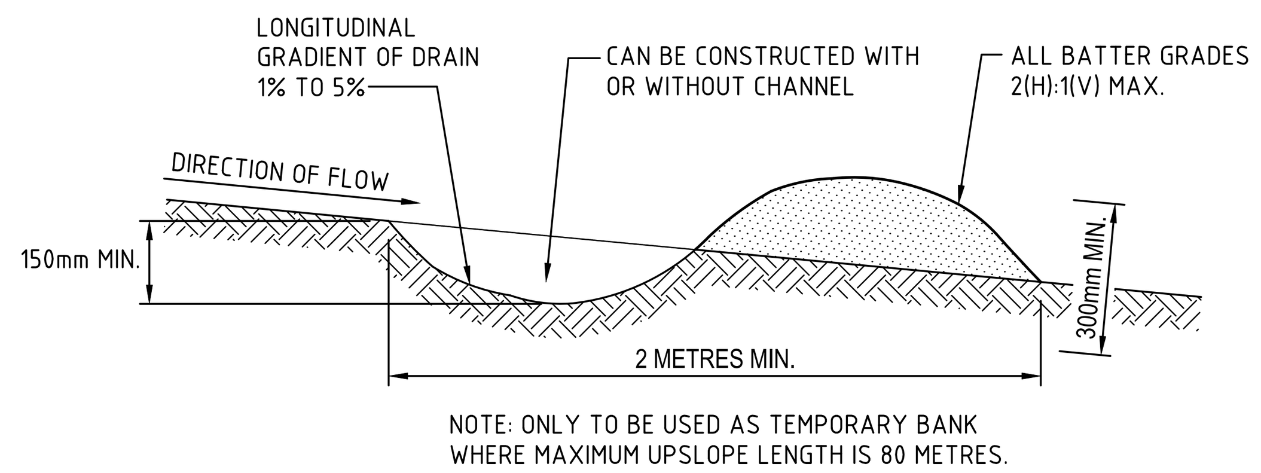


FOR DROP INLETS AT NON-SAG POINTS, SANDBAGS, EARTH BANK OR EXCAVATION USED TO CREATE ARTIFICIAL SAG POINT

CONSTRUCTION NOTES

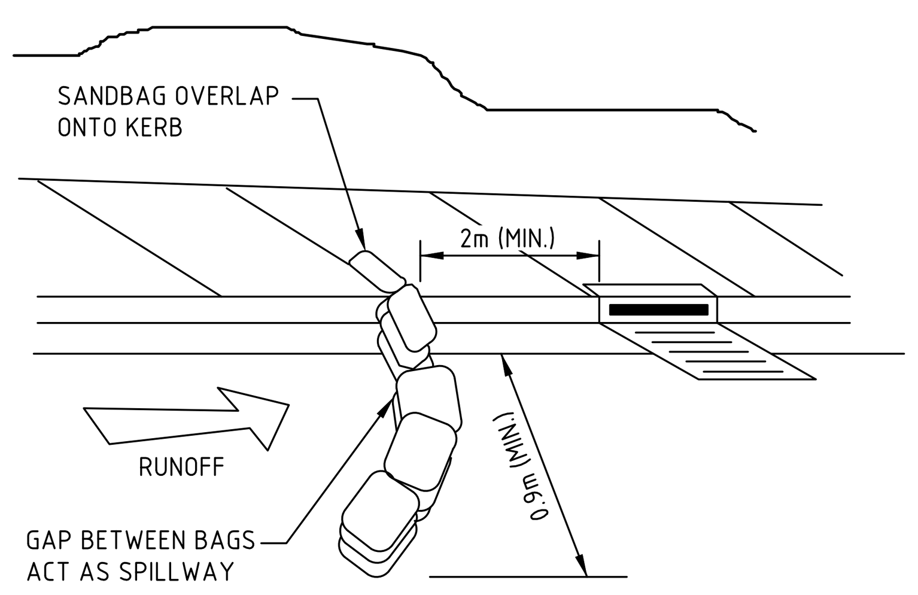
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS SPACED AT 1 METRE CENTRES.
3. DO NOT COVER INLET WITH GEOTEXTILE.
4. CONSTRUCTION DETAILS ARE SIMILAR TO STANDARD DRAWING 6-6 AND 6-7.

INLET SEDIMENT BARRIER (ISB)
SCALE N.T.S.

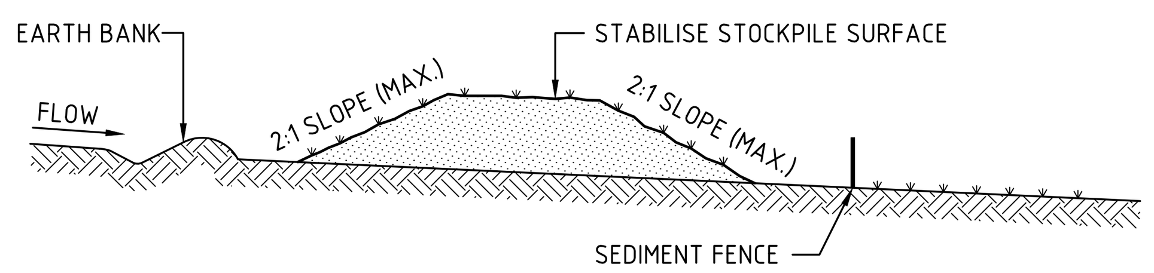


NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

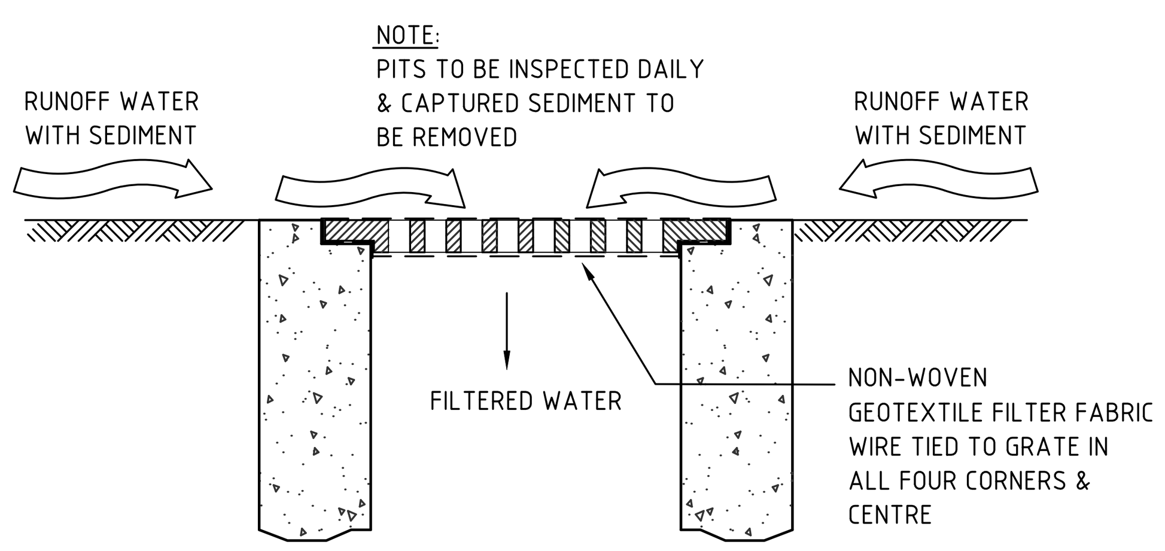
CATCH DRAIN (CD)
SCALE N.T.S.



SANDBAG KERB INLET PROTECTION
SCALE N.T.S.

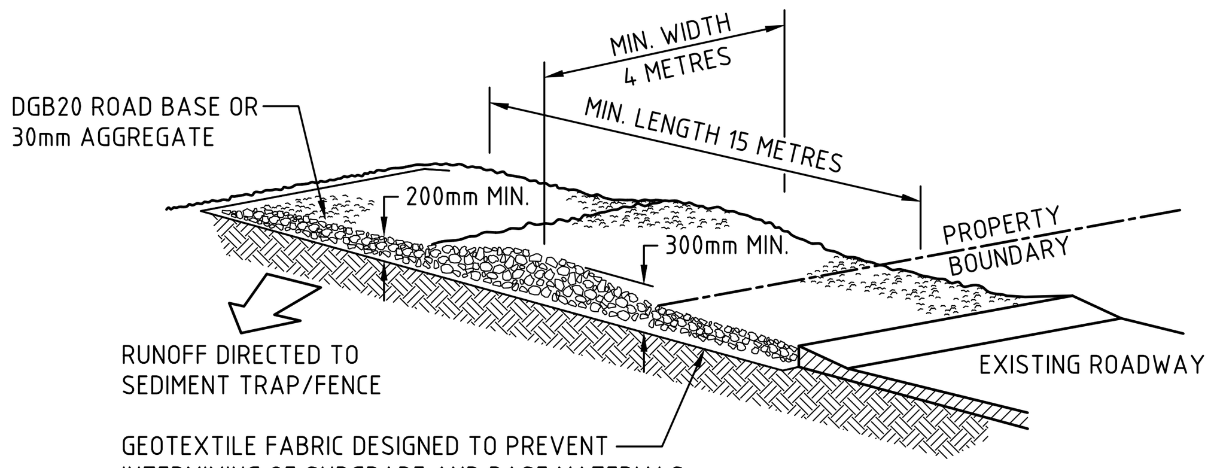


STOCKPILE SECTION
SCALE N.T.S.



INLET TRAP
SCALE N.T.S.

NOTE:
TO BE USED IN PAVED AREAS WHERE TRAFFIC ACCESS IS REQUIRED



GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUBBASE LAYERS.

GEOTEXTILE MAYBE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N.

STABILISED SITE ACCESS
SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STABILISED SITE ACCESS CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE - PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

INLET SEDIMENT BARRIER NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS SPACED AT 1 METRE ICENTRES. 3. DO NOT COVER INLET WITH GEOTEXTILE.
3. DO NOT COVER INLET WITH GEOTEXTILE.
4. CONSTRUCTION DETAILS ARE SIMILAR TO STANDARD DRAWING 6-6 AND 6-7.

EARTH BANK CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS-SECTIONS, NOT "V" SHAPED.
5. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EROSION AND SEDIMENT CONTROLS

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH THESE DOCUMENTS AND
   - A LOCAL AUTHORITY REQUIREMENTS
   - B EPA REQUIREMENTS
   - C NSW DEPARTMENT OF HOUSING MANUAL 'MANAGING URBAN STORM WATER , SOILS AND CONSTRUCTION', 4TH EDITION , MARCH 2004.
2. EROSION, SEDIMENT AND DUST CONTROLS ARE TO BE ESTABLISHED PRIOR TO COMMENCEMENT OF EARTHWORKS OR STRIPPING.
3. MAINTAIN THE EROSION CONTROL DEVICES INDICATED TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORM WATER PITS ARE CONSTRUCTED , PREVENT SITE RUNOFF ENTERING UNLESS SILT FENCES ARE ERECTED AROUND THE PITS.
4. CONTRACTOR IS TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFICIENTLY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED , PARTICULARLY FOLLOWING STORM EVENTS.
5. CONTRACTOR TO PROVIDE 1m WIDE TURF STRIPED BEHIND ALL KERBS.
6. SEDIMENT WILL BE REUSED WHERE POSSIBLE OF DISPOSED OF IN ACCORDANCE WITH LEGISLATIVE REQUIREMENTS
7. A WATERCART OR IRRIGATION IS TO BE USED DURING PERIODS OF HIGH WIND AND / OR WHEN DUST IS OBSERVED.
8. PROGRESSIVE REHABILITATION OF DISTURBED AREAS WITHIN THE SITE IS UNDERTAKEN, AS PART OF THE COMPLETION OF EACH STAGE OF DEVELOPMENT
9. TOP SOIL IS TO BE STOCKPILED ON SITE AND REUSED IN LANDSCAPING.
10. UNDERTAKE PROGRESSIVE RE-VEGETATION OF FILLED AND DISTURBED AREAS.

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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE: NOT TO SCALE

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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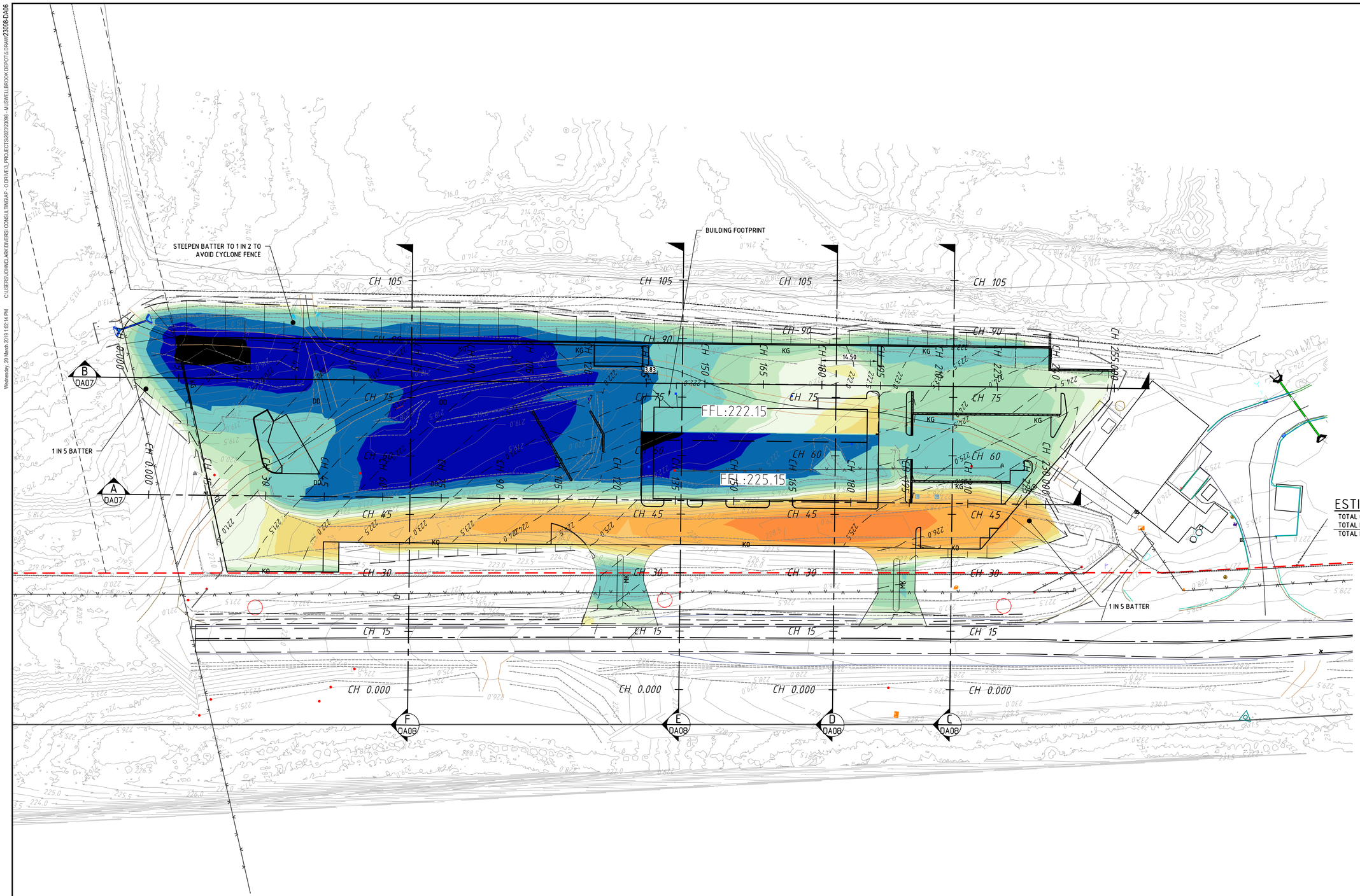
PROJECT: MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE: EROSION AND SEDIMENT CONTROL DETAILS

PROJECT No.: 23098 | DRG No.: DA05 | REV: C

A1



LEGEND:

- ALIGNMENT CONTROL LINE
- LIMIT OF WORKS
- PROPOSED SITE BOUNDARY
- EXISTING SITE BOUNDARY
- PROPOSED LOT BOUNDARY
- 91.5 FINISHED SURFACE CONTOUR (0.5m INTERVAL)
- 91.0 EXISTING CONTOUR (0.5m INTERVAL)
- PROPOSED RETAINING WALL
- T T EXISTING TELSTRA
- E E EXISTING ELCTRICAL
- S S EXISTING SEWER
- W W EXISTING WATER MAIN
- G G EXISTING GAS
- SW SW EXISTING STORMWATER

CUT AND FILL DEPTH RANGE (m)

999	4.0
4.0	3.0
3.0	2.0
2.0	1.0
1.0	0.5
0.5	0.2
0.2	-0.2
-0.2	-0.5
-0.5	-1.0
-1.0	-2.0
-2.0	-3.0
-3.0	-4.0
-4.0	-999

ESTIMATED BULK EARTHWORKS VOLUME

TOTAL CUT	-4,847m³
TOTAL FILL	20,614m³
TOTAL BALANCE	15,767m³

EARTHWORKS VOLUME NOTE:

1. VOLUMES ARE BETWEEN FINISHED SURFACE AND STRIPPED SURFACE.
2. TEMPORARY BATTERS HAVE NOT BEEN CONSIDERED.
3. VOLUMES ARE BANK VOLUMES AND BULKING FACTORS HAVE NOT BEEN CONSIDERED.
4. STORMWATER AND SERVICES TRENCHING HAS NOT BEEN CONSIDERED.
5. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING.

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1:500 10.0m 5.0 0 10.0 20.0 30.0m

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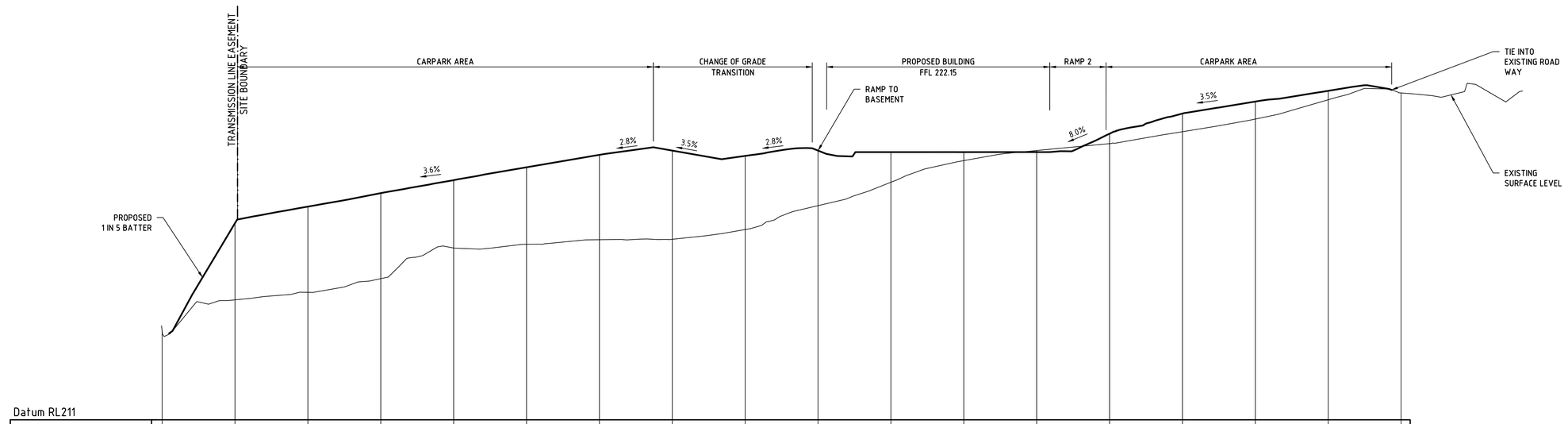
PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
SITE REGRADING PLAN

PROJECT No.: 23098 | DRG No.: DA06 | REV.: C

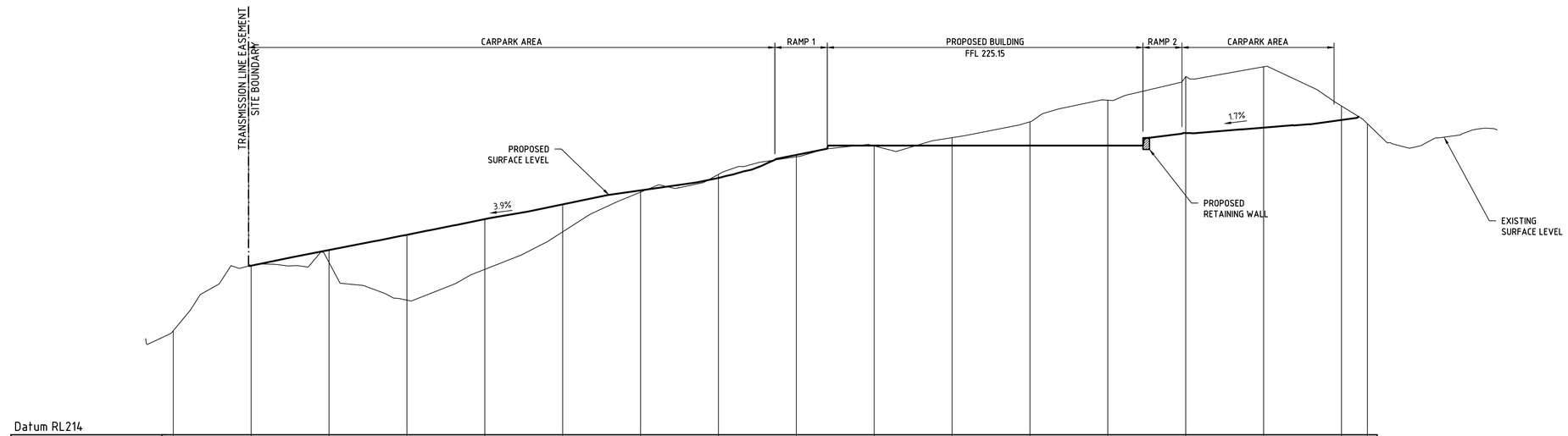
A1



Datum RL211

	TP																			
PROPOSED LEVEL		219.085	219.765	220.319	220.852	221.382	221.893	222.068	221.185	222.068	222.006	222.006	222.007	222.762	223.591	224.084	224.525			
EXISTING LEVEL	214.657	215.931	216.241	216.804	218.063	218.218	218.405	218.422	218.822	219.805	220.767	221.656	222.07	222.354	222.844	223.364	224.158	224.438		
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000		

SECTION B (DA06)
1:500 (HOR.)
1:100 (VER.)



Datum RL214

PROPOSED LEVEL		220.517	221.122	221.707	222.313	222.882	223.421	223.901	224.79	225.15	225.15	225.15	225.15	225.632	225.841	225.433	225.99			
EXISTING LEVEL	218.008	220.528	220.642	219.889	220.376	221.823	223.353	224.039	224.716	225.136	225.455	226.066	226.898	227.805	228.188	226.675	225.99			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	230.000			

SECTION A (DA06)
1:500 (HOR.)
1:100 (VER.)

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
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SCALE:
H 1:500 | V 1:100 (A1)
1:500 10.0m 5.0 0 10.0 20.0 30.0m
1:100 2.0m 1.0 0 2.0 4.0 6.0m
DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

CLIENT:

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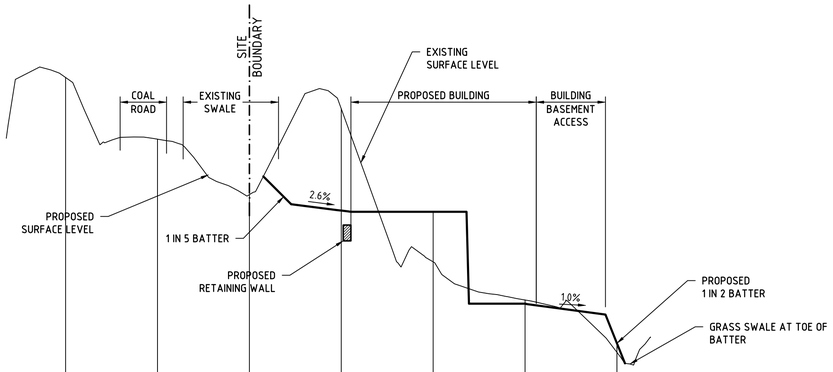
E mail@diversi.com.au
W www.diversi.com.au

PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
SITE REGRADING SECTIONS
SHEET 1 OF 2

PROJECT No.:	DRG No.:	REV:
23098	DA07	C

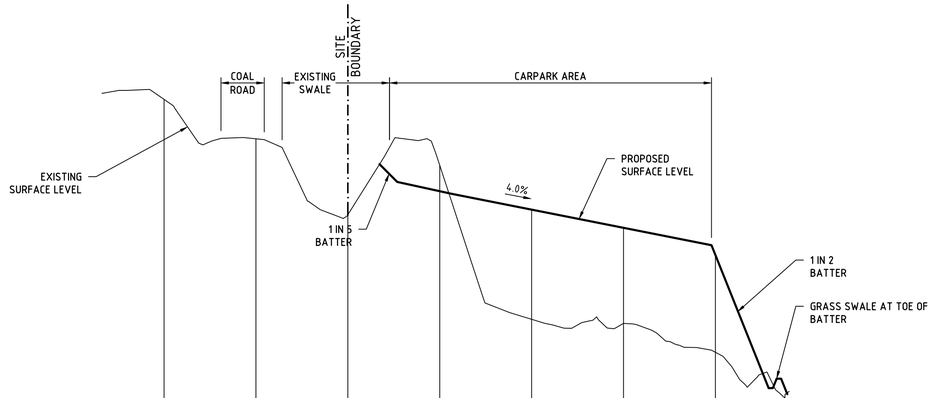
A1



Datum RL217

PROPOSED LEVEL					225.19	225.15	222.156	220.856		
EXISTING LEVEL	229.532	227.52	225.709	228.511	223.516	222.271	220.561			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	105.009	

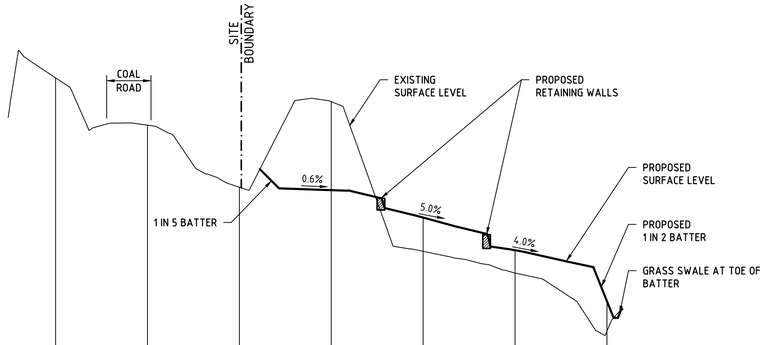
SECTION D DA06
1:500 (HOR.)
1:100 (VER.)



Datum RL213

PROPOSED LEVEL					222.737	222.135	221.542	220.655		
EXISTING LEVEL	225.734	224.448	221.97	223.584	218.556	218.422	217.479			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	105.007	

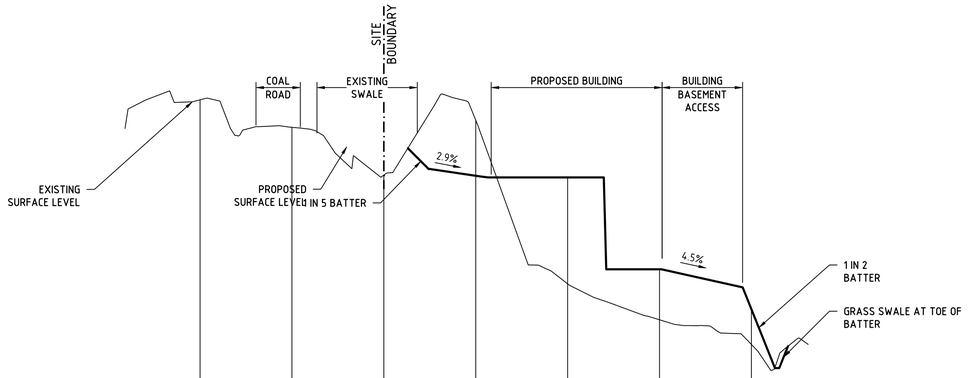
SECTION F DA06
1:500 (HOR.)
1:100 (VER.)



Datum RL218

PROPOSED LEVEL					225.788	224.892	223.827	222.164		
EXISTING LEVEL	229.453	227.908	225.884	228.676	223.791	223.08	221.184			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	105.005	

SECTION C DA06
1:500 (HOR.)
1:100 (VER.)



Datum RL216

PROPOSED LEVEL					225.203	225.15	222.15	220.848		
EXISTING LEVEL	227.682	226.785	225.225	227.017	221.676	220.593	219.697			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	105.010	

SECTION E DA06
1:500 (HOR.)
1:100 (VER.)

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
H 1:500 | V 1:100 (A1)
10.0m 5.0 0 10.0 20.0 30.0m
1:500
2.0m 1.0 0 2.0 4.0 6.0m
1:100
DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

CLIENT:

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PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
SITE REGRADING SECTIONS
SHEET 2 OF 2

PROJECT No.: 23098 | DRG No.: DA08 | REV: C

A1

RIPRAP SCOUR PROTECTION

REMOVE EXISTING STORMWATER PIPE AND HEADWALLS

REFER TO LANDSCAPE ARCHITECT PLANS FOR BATTER PLANTING AND JUTE MAT.

INSTALL ATLAN STORMSAC FILTER BASKET TO GRATED INLET PITS WITHIN LANDSCAPE AREAS

1 IN 2 BATTER

EXISTING CYCLONE FENCE

REINFORCE PIT SURROUNDS FOR PITS LOCATED IN BATTERS

REFER TO ARCHITECTURAL PLANS FOR TREE REMOVAL.

HUMES HUMECEPTOR ST3 OIL AND GRIT SEPARATOR OR APPROVED EQUIVALENT

PROVIDE BATTER BEHIND KERB ADJACENT TO BATTER

ATLAN SPILLCEPTOR SPI.030.C1.2C CAPACITY FOR 1.5 x FUEL CART SPILLCEPTOR CONTAINS AUTOMATIC SHUTOFF AND FIRE BREAK.

RUNOFF FROM WASH BAYS TO BE DIRECTED TO SEWER

FUELLING BAY

WASH BAYS

EMULSOIN TRUCK BAY

COAL ROAD

REFER SHEET DA10 FOR CONTINUATION

BLOCK RETAINING WALL

1 IN 5 BATTER

INSTALL ATLAN STORMSAC FILTER BASKET

RIPRAP SCOUR PROTECTION

PRECAST SLOPED HEADWALL

GRASSED SWALE

LEGEND:

- ALIGNMENT CONTROL LINE
- SITE BOUNDARY
- EXISTING ADJACENT BOUNDARY
- FINISHED SURFACE CONTOUR (0.5m INTERVAL)
- EXISTING CONTOUR (0.5m INTERVAL)
- KO — PROPOSED KERB ONLY
- KG — PROPOSED KERB & GUTTER
- DD — PROPOSED DISH DRAIN
- PROPOSED AC PAVEMENT
- PROPOSED CONCETE PAVEMENT
- PROPOSED STORMWATER PIT AND PIPE
- A-3 — STORMWATER PIT LABELS
- PROPOSED RETAINING WALL

DIAL BEFORE YOU DIG www.1100.com.au

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
B	31/01/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

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

1:200 4.0m 2.0 0 4.0 8.0 12.0m

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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PROJECT: **MUSWELLBROOK DEPOT**
CIVIL DESIGN CONCEPT

TITLE: CIVIL AND STORMWATER WORKS PLAN SHEET 1 OF 2

PROJECT No.: 23098 | DRG No.: DA09 | REV.: C

A1

REFER TO LANDSCAPE ARCHITECT PLANS FOR BATTER PLANTING AND JUTE MAT.

HUMES HUMECEPTOR ST3 OIL AND GRIT SEPARATOR OR APPROVED EQUIVALENT

INSTALL ATLAN STORMSAC FILTER BASKET TO GRATED INLET PITS WITHIN LANDSCAPE AREAS

REINFORCE PIT SURROUNDS FOR PITS LOCATED IN BATTERS

GRADE INLET TO DIRECT FLOWS INTO STORMWATER PIPE

TIE INTO EXISTING ROADWAY

REFER SHEET DA09 FOR CONTINUATION

FFL:222.15

FFL:225.15

01

02

RAMP

INACCESSIBLE AREA

PARKING BAYS CLASSIFIED AS USER CLASS 2

END PARKING BAYS TO BE 300mm WIDER (TYPICAL)

2% MAXIMUM GRADE AT ACCESABLE SPACES AND SHARE ZONE

INSTALL ATLAN STORMSAC FILTER BASKET

300mm CLASS D GRATED DRAIN

ADDITIONAL GRAVEL PAVEMENT FOR TRUCK TURNING

TRAFFICABLE MEDIAN

STAFF ENTRY GATE

ADDITIONAL GRAVEL PAVEMENT FOR TRUCK TURNING

TRAFFICABLE MEDIAN

PRECAST SLOPED HEADWALL AND SCOUR PROTECTION

EXISTING ROAD CENTRELINE

EDGE OF EXISTING PAVEMENT

PRECAST SLOPED HEADWALL AND SCOUR PROTECTION

GRASSED SWALE

COAL ROAD

LEGEND:

- ALIGNMENT CONTROL LINE
- SITE BOUNDARY
- EXISTING ADJACENT BOUNDARY
- 91.5 FINISHED SURFACE CONTOUR (0.5m INTERVAL)
- 91.0 EXISTING CONTOUR (0.5m INTERVAL)
- KO PROPOSED KERB ONLY
- KG PROPOSED KERB & GUTTER
- DD PROPOSED DISH DRAIN
- PROPOSED AC PAVEMENT
- PROPOSED CONCETE PAVEMENT
- PROPOSED STORMWATER PIT AND PIPE
- A-3 STORMWATER PIT LABELS
- PROPOSED RETAINING WALL

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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

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

1:200 4.0m 2.0 0 4.0 8.0 12.0m

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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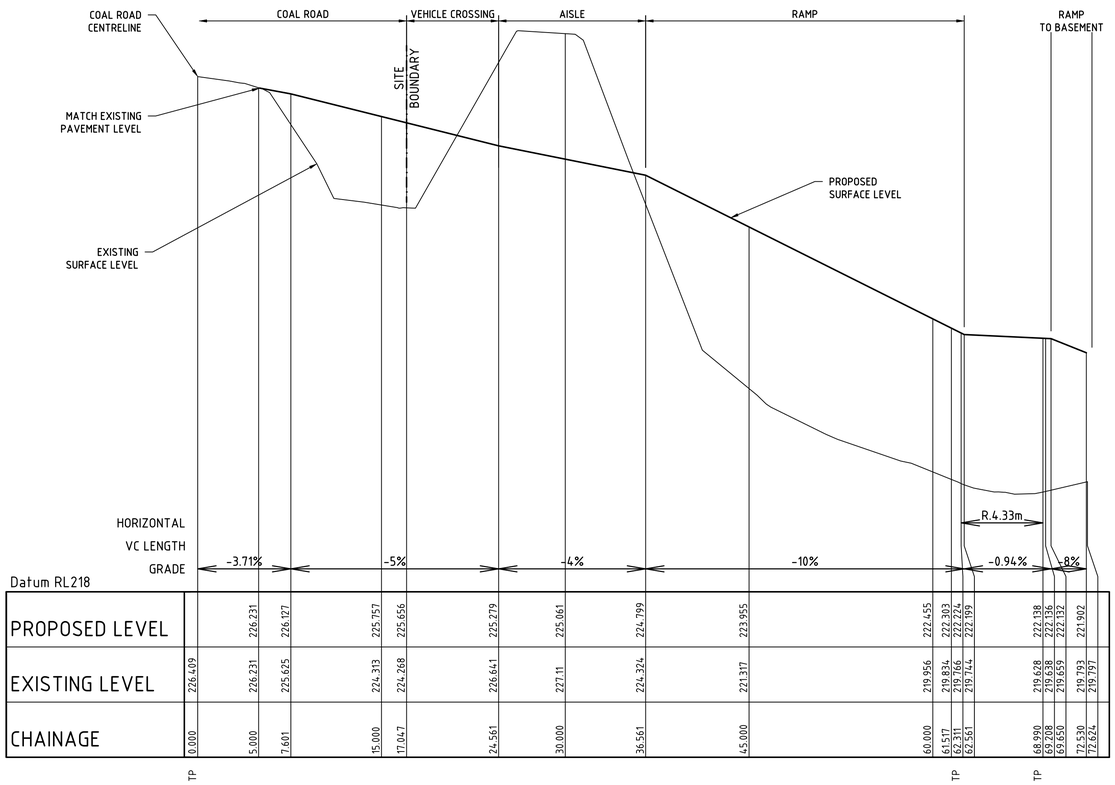
PROJECT: **MUSWELLBROOK DEPOT**
CIVIL DESIGN CONCEPT

TITLE: CIVIL AND STORMWATER WORKS PLAN SHEET 2 OF 2

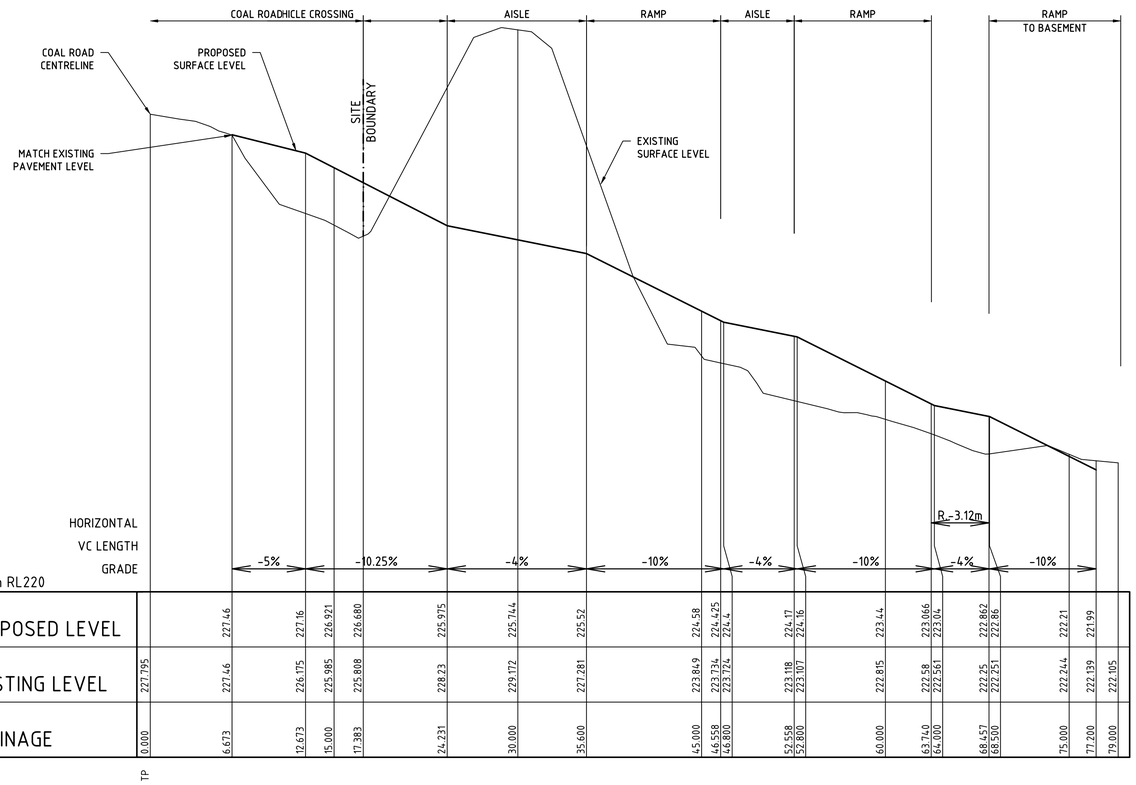
PROJECT No.: 23098 | DRG No.: DA10 | REV: C

A1



RAMP 01 LONGITUDINAL SECTION

SCALE 1:250 HORI.
SCALE 1:50 VERT.



RAMP 02 LONGITUDINAL SECTION

SCALE 1:250 HORI.
SCALE 1:50 VERT.

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
B	31/01/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:

H 1:250 | V 1:50 (A1)

1:250 5.0m 2.5 0 5.0 10.0 15.0m

1:50 1000mm 500 0 1000 2000 3000mm

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
RAMP LONGITUDINAL SECTIONS

PROJECT No.:	DRG No.:	REV:
23098	DA11	C

A1

EXISTING DAMS TO BE USED FOR OSD.

ALTERATIONS TO BANKS AND OUTLET SUBJECT TO DETAILED DESIGN.

TRANSMISSION EASEMENT

CATCHMENT 1
AREA = 0.62 Ha

CATCHMENT 2
AREA = 0.67 Ha

CATHMENT EXT.
AREA = 1.37 Ha

EXISTING COUNCIL
WASTE MANAGEMENT FACILITY

COAL ROAD

LEGEND:

- STORMWATER CATCHMENT BOUNDARY
- UPSTREAM STORMWATER CATCHMENT BOUNDARY
- EXTERNAL CATCHMENT FOR OSD DESIGN
- PROPOSED STORMWATER PIT AND PIPE
- OVERLAND FLOW PATH
- CATCHMENT TO OSD
- UPSTREAM CATCHMENT

LOCAL CATCHMENT PLAN

SCALE 1:1000

EXISTING DAMS TO BE USED FOR OSD.

ALTERATIONS TO BANKS AND OUTLET SUBJECT TO DETAILED DESIGN.

CATHMENT US2
AREA = 127.5 Ha

CATHMENT US1
AREA = 36.5 Ha

EXTERNAL CATCHMENT PLAN

SCALE 1:5000

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:

1:1000 (A1), 1:2000 (A3)

1:1000 20m 10 0 20 40 60m

1:5000 100m 50 0 100 200 300m

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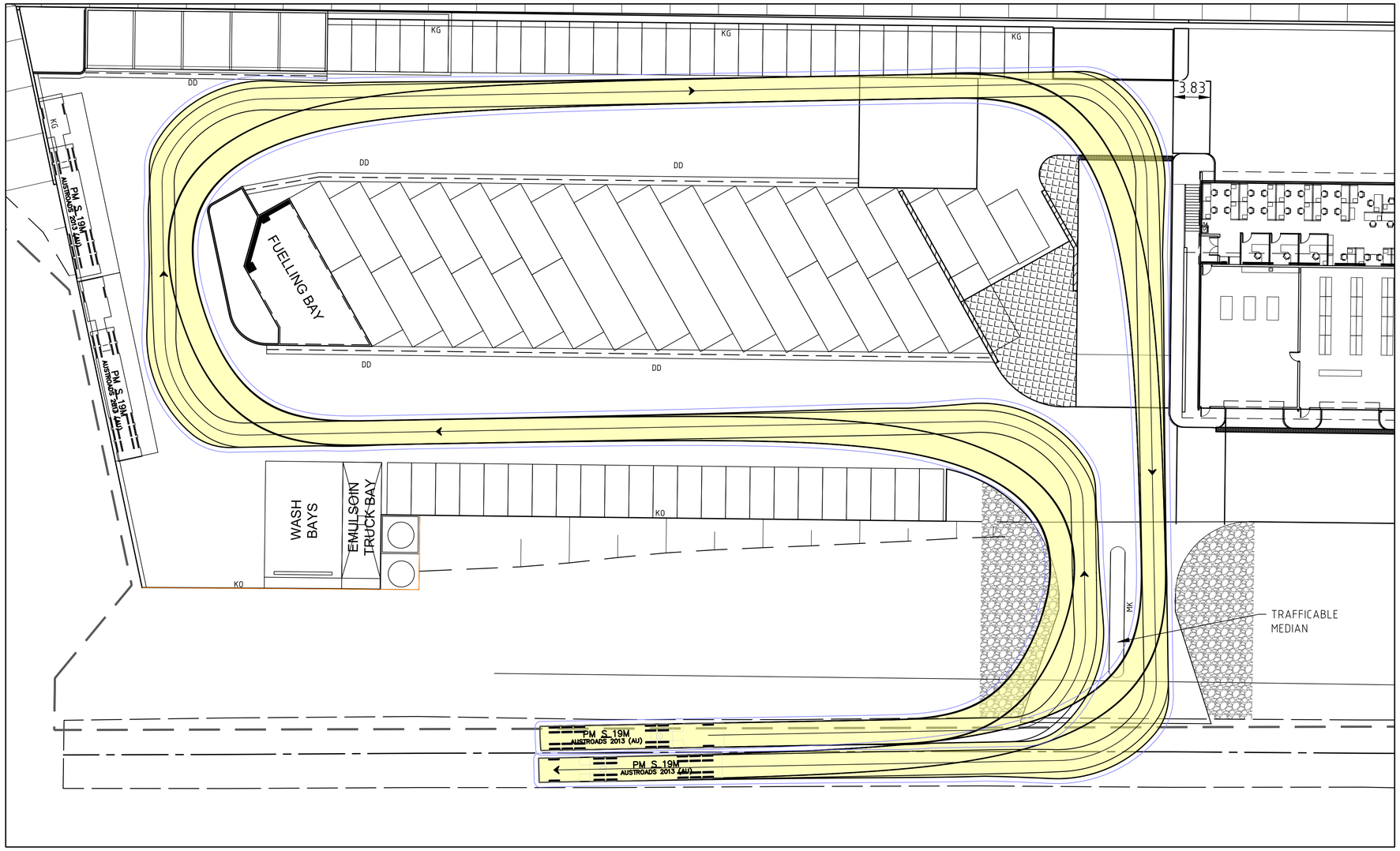
W www.diversi.com.au

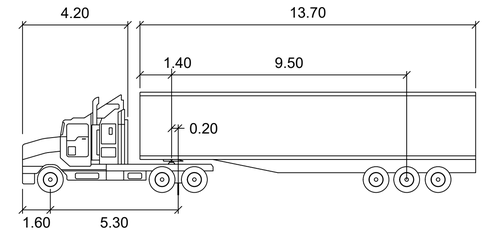
PROJECT:
20 SEVENTH AVENUE, AUSTRAL
RESIDENTIAL SUBDIVISION

TITLE:
STORMWATER CATCHMENT PLAN

PROJECT No.: 23094 | DRG No.: DA12 | REV: C



SWEPT PATH PLAN 1
CHECK VEHICLE



PM S 19M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 27.8
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
1:250 (A1), 1:500 (A3)
1:250 5.0m 2.5 0 5.0 10.0 15.0m
DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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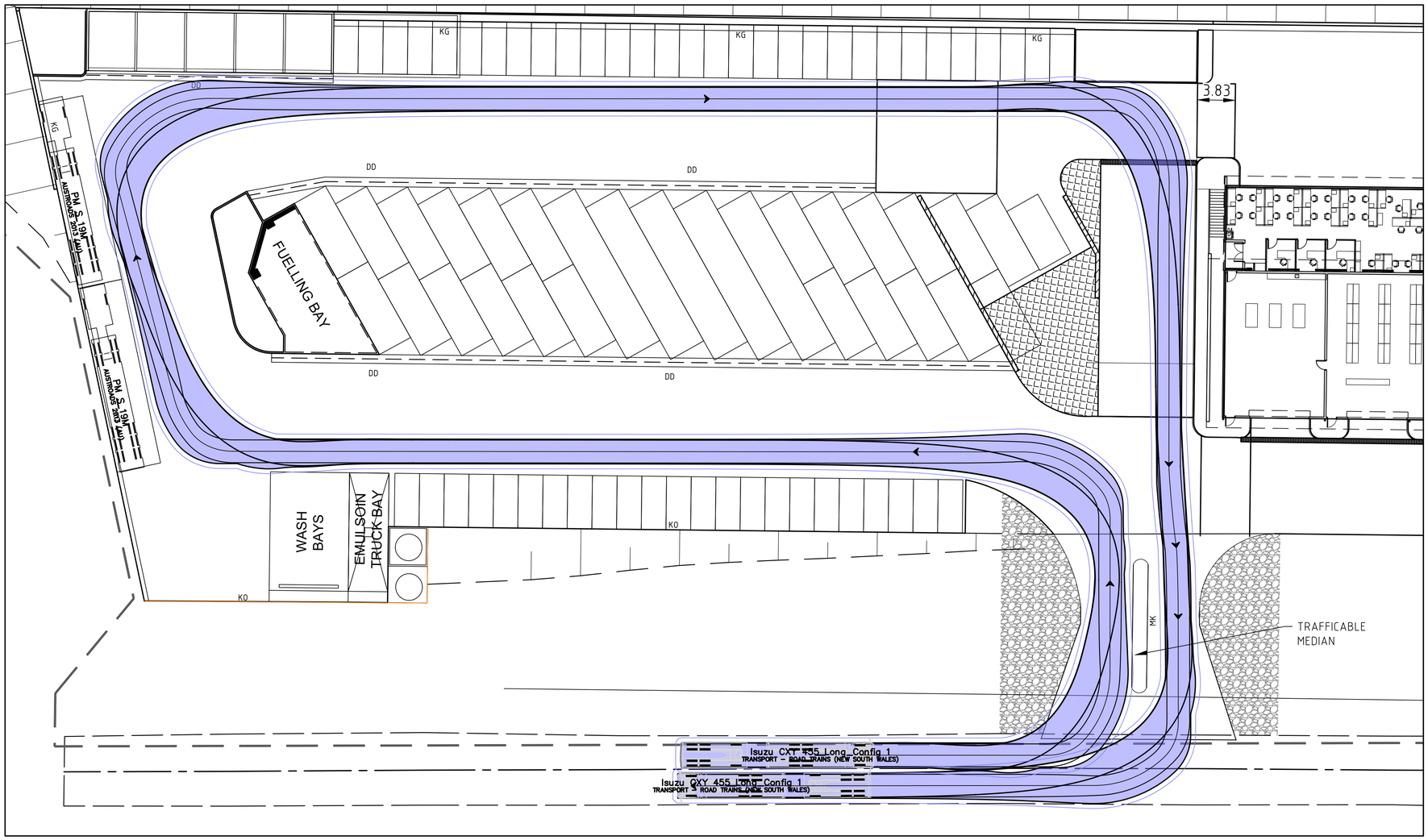
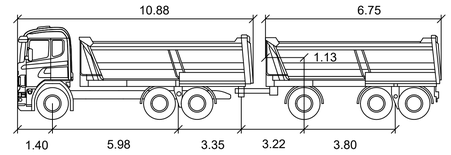
PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
VEHICLE TURNING PATH PLAN
SHEET 1 OF 5

PROJECT No.:	DRG No.:	REV:
23098	DA13	C



SWEPT PATH PLAN 1
DESIGN VEHICLE



Isuzu CXY 455 Long_Config 1

		meters			
First Unit Width	:	2.49	Lock to Lock Time	:	6.0
Trailer Width	:	2.49	Steering Angle	:	35.7
First Unit Track	:	2.44	Articulating Angle	:	70.0
Trailer Track	:	2.44			

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
1:250 (A1), 1:500 (A3)
1:250 5.0m 2.5 0 5.0 10.0 15.0m
DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

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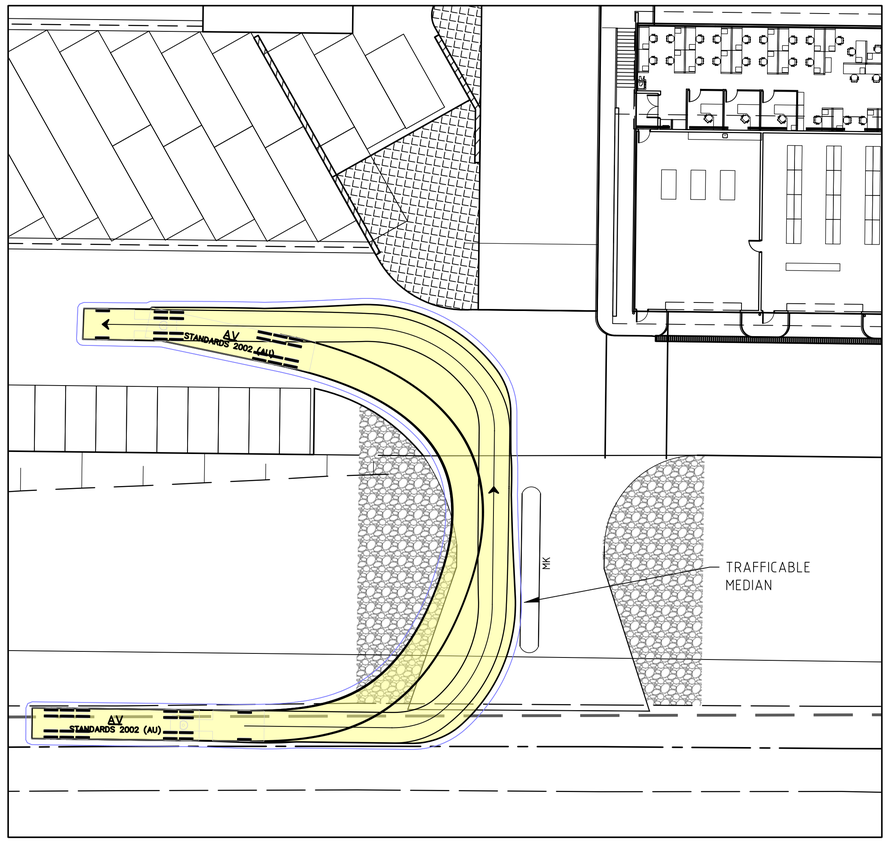
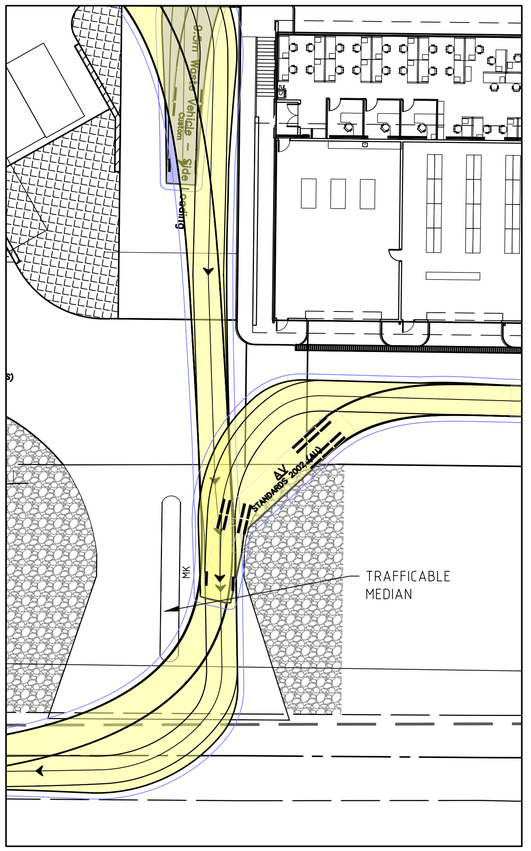
PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
VEHICLE TURNING PATH PLAN
SHEET 2 OF 5

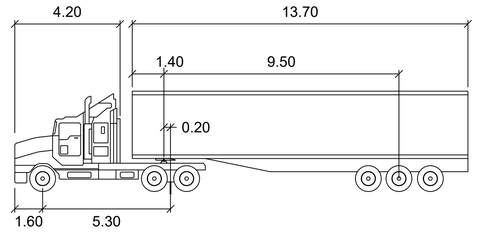
PROJECT No.:	DRG No.:	REV:
23098	DA14	C



SWEPT PATH PLAN 3
CHECK VEHICLE ENTRY



SWEPT PATH PLAN 4
CHECK VEHICLE EXIT



PM S 19M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 27.8
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
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A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
1:250 (A1), 1:500 (A3)
1:250 5.0m 2.5 0 5.0 10.0 15.0m
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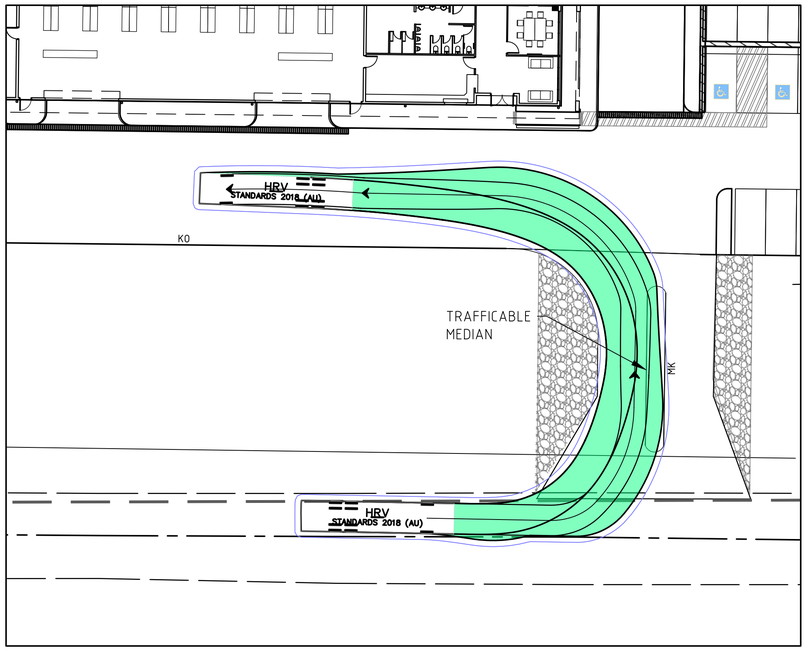
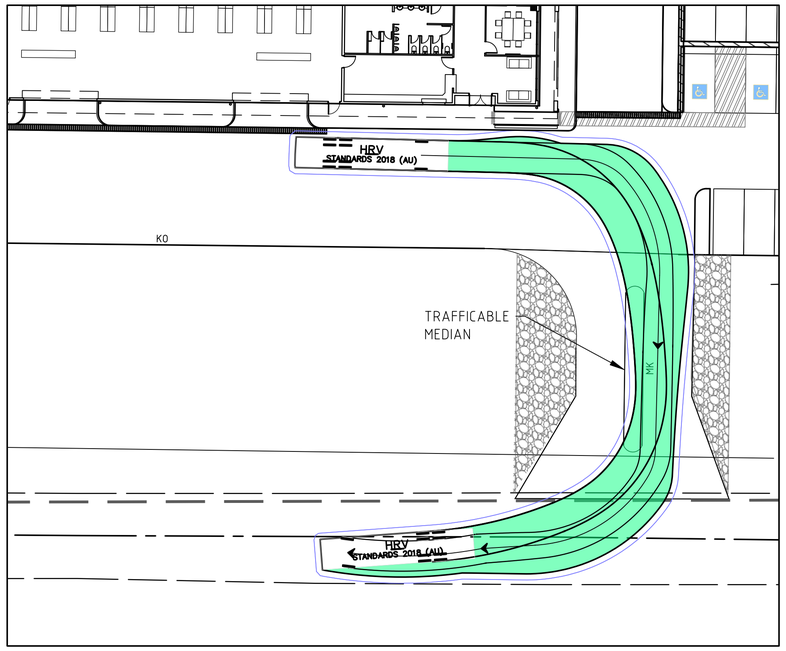
PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
VEHICLE TURNING PATH PLAN
SHEET 3 OF 5

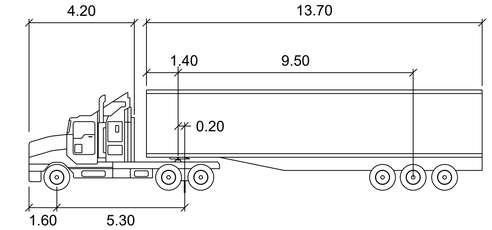
PROJECT No.:	DRG No.:	REV:
23098	DA15	C



SWEPT PATH PLAN 4
CHECK VEHICLE ENTERING
DRIVEWAY 2

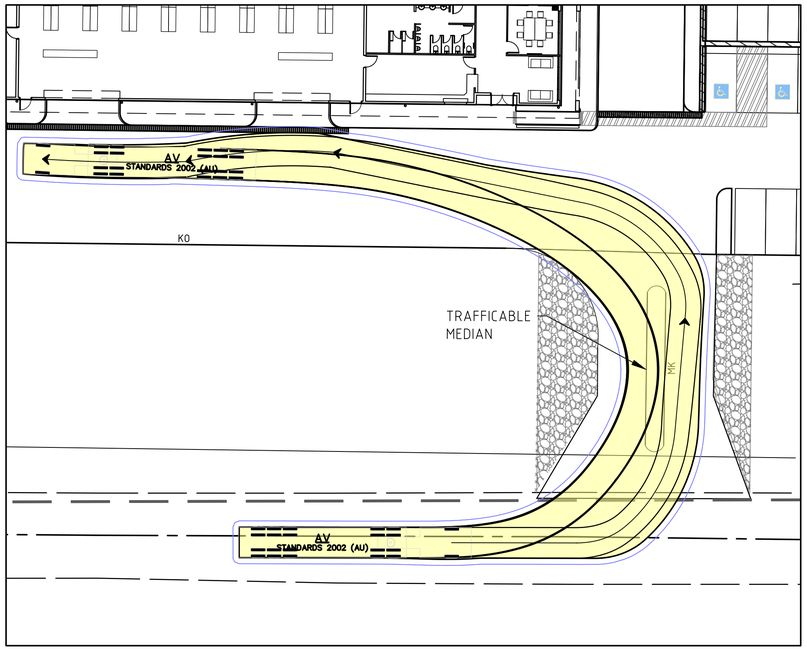


SWEPT PATH PLAN 5
CHECK VEHICLE EXITING
DRIVEWAY 2

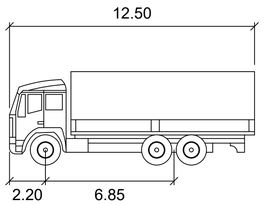


PM S 19M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 27.8
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



SWEPT PATH PLAN 6
CHECK VEHICLE ENTERING
DRIVEWAY 2



HRV

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.7

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
C	07/03/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
B	31/01/2025	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM
A	6/12/2024	ISSUE FOR DA APPROVAL	JB	JB	JGC	GM

SCALE:
1:250 (A1), 1:500 (A3)
1:250 5.0m 2.5 0 5.0 10.0 15.0m

DRAWING DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

CLIENT:

FOR DA APPROVAL

THIS DRAWING SHALL ONLY BE USED FOR CONSTRUCTION WHEN PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

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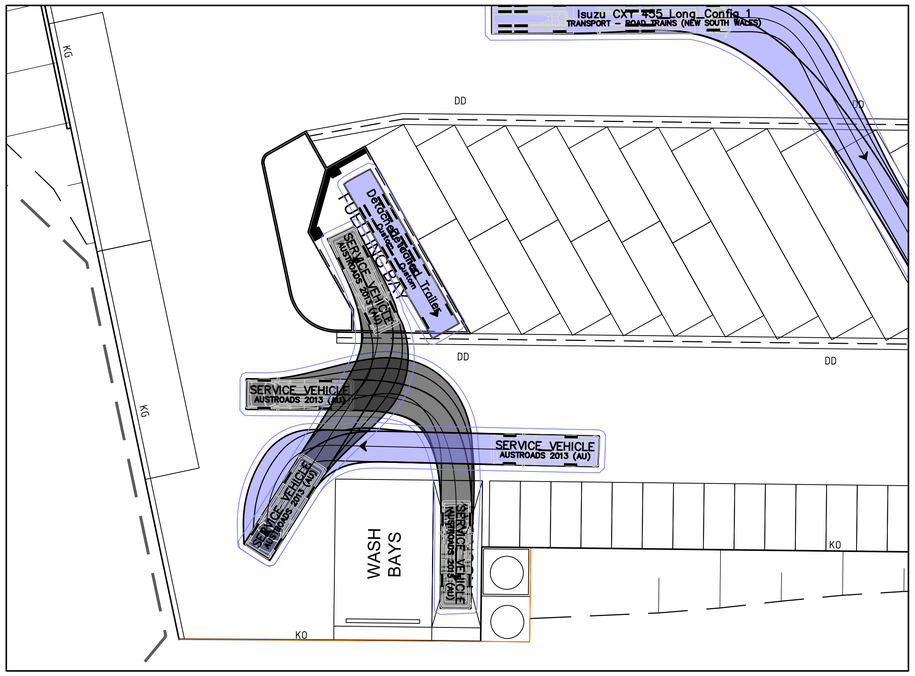
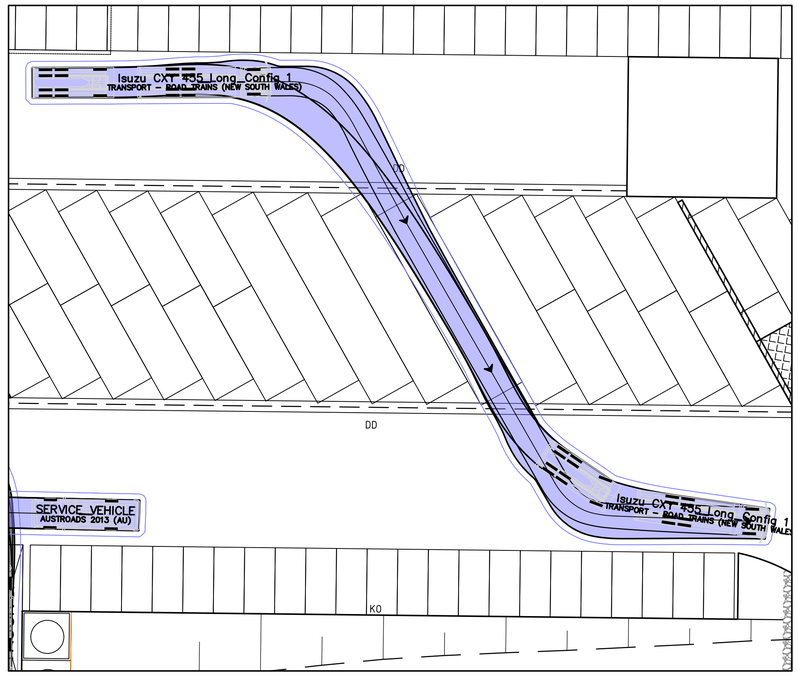
PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
VEHICLE TURNING PATH PLAN
SHEET 4 OF 5

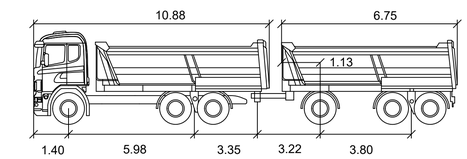
PROJECT No.:	DRG No.:	REV:
23098	DA16	C



SWEPT PATH PLAN 7
FUEL / EMULSION
TRUCK PARKING

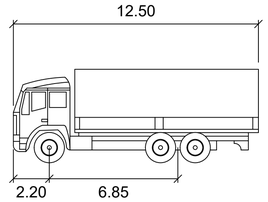


SWEPT PATH PLAN 8
DESIGN VEHICLE DRIVING
THROUGH BAY



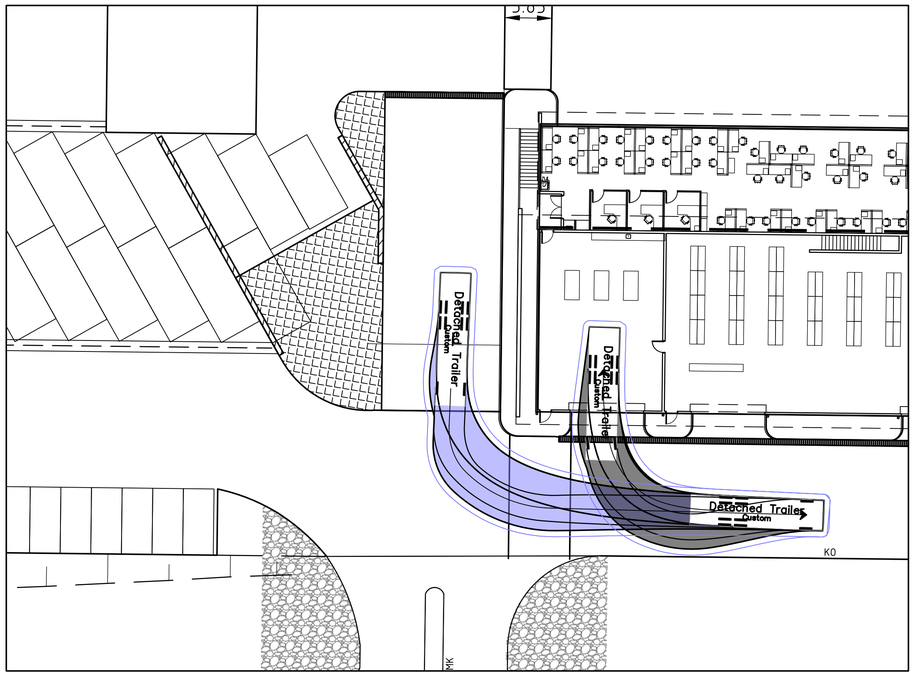
Isuzu CXY 455 Long_Config 1

	meters		
First Unit Width	: 2.49	Lock to Lock Time	: 6.0
Trailer Width	: 2.49	Steering Angle	: 35.7
First Unit Track	: 2.44	Articulating Angle	: 70.0
Trailer Track	: 2.44		

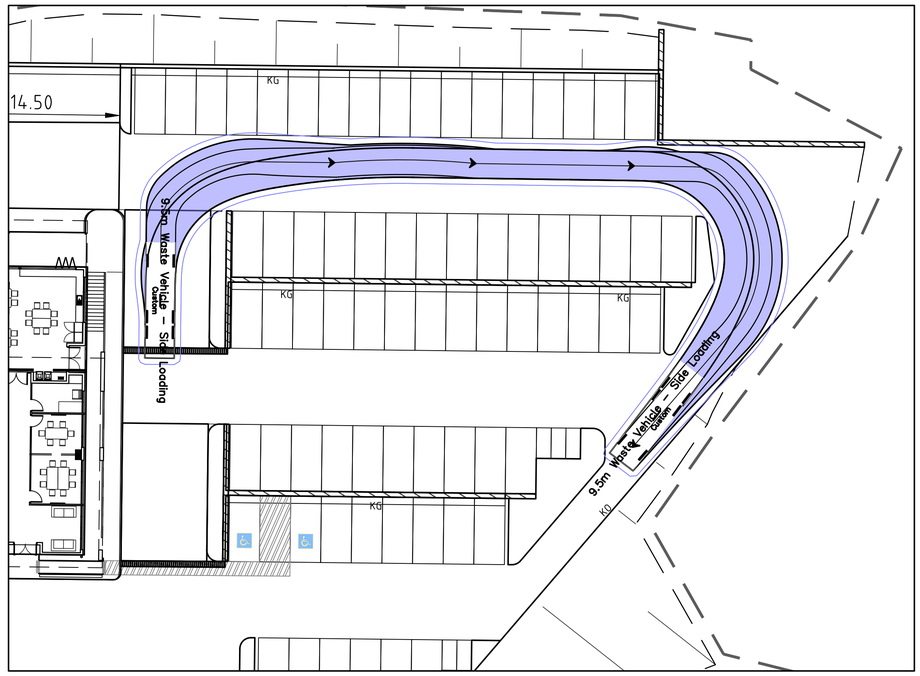


HRV

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.7



SWEPT PATH PLAN 9
DESIGN VEHICLE REVERSE
INTO WORKSHOP



SWEPT PATH PLAN 10
WASTE VEHICLE
COLLECTING BINS

REV	DATE	AMENDMENT / DESCRIPTION	DRN	DES	CHK	APP
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SCALE:
1:250 (A1), 1:500 (A3)
5.0m 2.5 0 5.0 10.0 15.0m
1:250
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PROJECT:
MUSWELLBROOK DEPOT
CIVIL DESIGN CONCEPT

TITLE:
VEHICLE TURNING PATH PLAN
SHEET 5 OF 5

PROJECT No.:	DRG No.:	REV:
23098	DA17	C