

MAITLAND HERITAGE

BUNGAREE ROAD, MAITLAND NSW
INTERNAL CIVIL WORKS



APPROXIMATE LOCATION
OF SUBJECT SITE




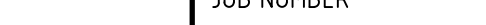
DRAWING SCHEDULE

DWG No.	DRAWING TITLE
C1.01	COVER SHEET
C2.01	SOIL & WATER MANAGEMENT PLAN
C2.02	SOIL & WATER MANAGEMENT DETAILS
C3.01	BULK EARTHWORKS PLAN - SHEET 1
C4.01	CIVIL WORKS PLAN (OVERALL SITE PLAN)
C4.02	CIVIL WORKS PLAN - SHEET 1
C4.03	CIVIL WORKS PLAN - SHEET 2
C10.01	CIVIL DETAILS
C10.02	OSD TANK PLAN, SECTION AND DETAILS

LOCALITY PLAN
NTS

NOT FOR CONSTRUCTION

DRAWN: S. BELCHER-VISSCHER
DESIGNED: MEICHA GREENWOOD
JOB MANAGER: KARINA BARRETT
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	PROJECT	DRAWING TITLE	JOB NUMBER	
A	ISSUED FOR DRAFT DA	TS		KB	28.02.24	EAGERS AUTOMOTIVE PTY LTD C/- CENTRIC ARCHITECTS			 Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1668 Email centralcoast@northrop.com.au ABN 81 094 433 100	INTERNAL CIVIL WORKS MAITLAND HERITAGE BUNGAREE STREET MAITLAND NSW	INTERNAL CIVIL WORKS COVER SHEET	SY223448
B	ISSUED FOR DEVELOPMENT APPLICATION	SB		KB	6.03.24							
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.				C1.01	B
											DRAWING SHEET SIZE = A1	

SEDIMENT & EROSION CONTROL NOTES

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS; NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION (THE 'BLUE BOOK').
- INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
- ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
- INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
- ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAYS WORK.
- THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECT'S PLANS FOR TREES TO BE KEPT.
- ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
- STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
- CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
- ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
- PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
- ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.

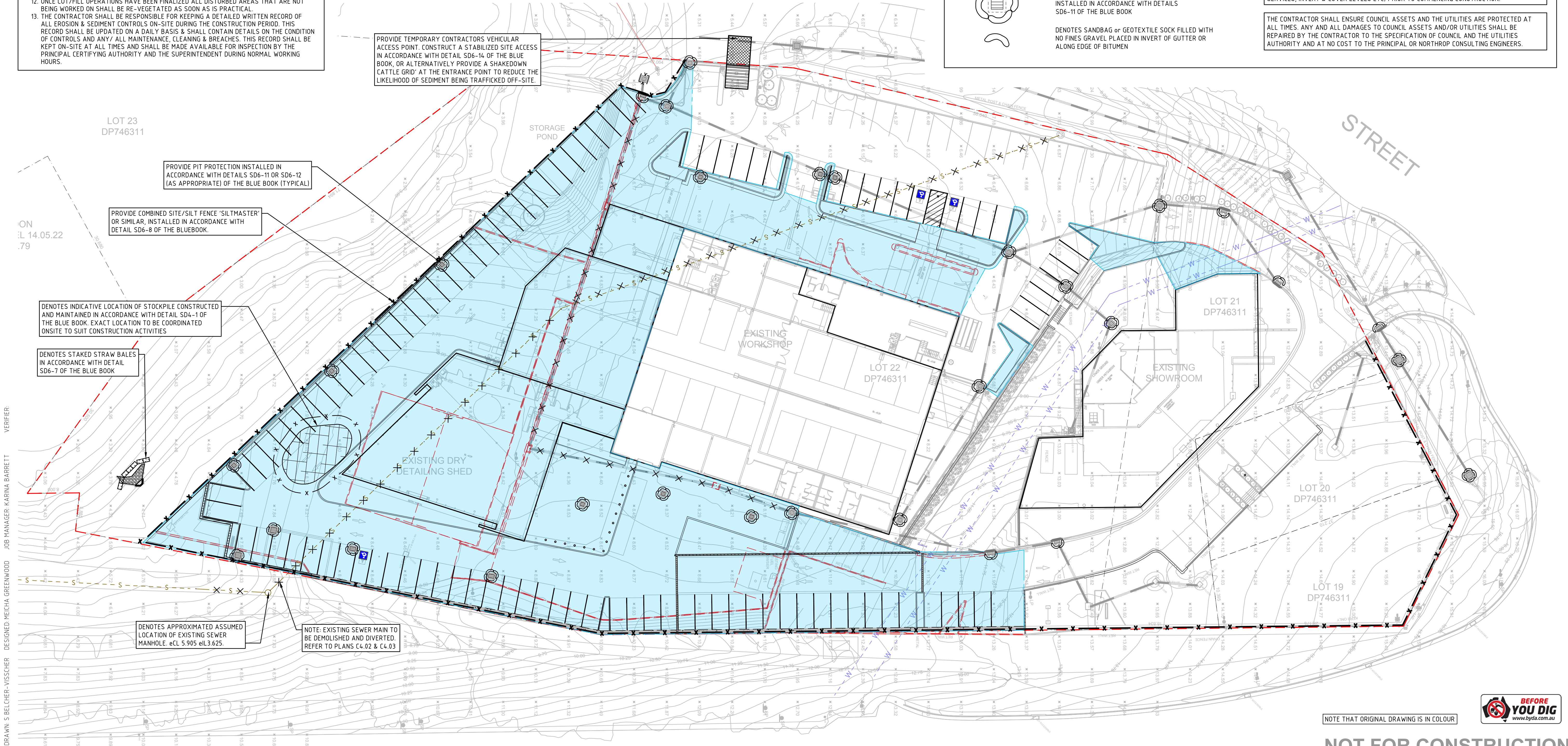
SEDIMENT BASIN SIZING CALCULATION

THE SITE IS LOCATED WITHIN THE RIVERMEAD SOIL LANDSCAPE AND PRIMARILY CONSISTS OF CLAYS, WHICH HAS THE FOLLOWING PROPERTIES (IN ACCORDANCE WITH TABLE C17 OF THE 'BLUE BOOK').

SITE PARAMETERS	
CONSTRAINT	VALUE
SEDIMENT TYPE	F
SOIL HYDROLOGY GROUP	B
K = SOIL ERODIBILITY (K-FACTOR)	0.031
R = RAINFALL EROSIVITY (R-FACTOR)	1630
S = 2 YEAR, 6 HOUR STORM INTENSITY	8.32mm/hr (MAITLAND)
LS = SLOPE LENGTH/GRADIENT	137 (175m SLOPE @ 4% GRADE)
P = EROSION CONTROL PRACTICE (P-FACTOR)	1.3 (TYPICAL)
C = GROUND COVER (C-FACTOR)	1.0 (10% GRASS COVER)
A = DISTURBED AREA	0.492 Ha
SOIL LOSS (m ³ /yr)	33.95m ³ /Yr
SOIL LOSS (RUSLE METHOD) (tonnes/ha/yr)	89.70 tonnes/Ha/Yr
EROSION HAZARD (TABLE 4.2 BLUE BOOK)	VERY LOW
TOTAL SITE RUN-OFF IS LESS THAN 150m ³ /Yr. BASIN/TANKS NOT REQUIRED.	

LEGEND

- DENOTES SITE BOUNDARY LINE
 - DENOTES APPROXIMATE EXTENTS OF DISTURBED AREA
 - DENOTES COMBINED SITE/SILT FENCE 'SILTMASTER' OR SIMILAR, INSTALLED IN ACCORDANCE WITH DETAIL SD6-8 OF THE BLUEBOOK.
 - DENOTES LOCATION OF EXISTING SEWER LINE
 - DENOTES APPROXIMATE LOCATION OF EXISTING WATER MAIN
 - DENOTES TEMPORARY CONTRACTORS VEHICULAR ACCESS POINT. CONSTRUCT A STABILISED SITE ACCESS IN ACCORDANCE WITH DETAIL SD6-14 OF THE BLUE BOOK OR PROVIDE A SHAKEDOWN CATTLE GRID AT ENTRANCE POINT TO REDUCE LIKELIHOOD OF SEDIMENT BEING TRAFFICKED OFF-SITE
 - DENOTES GEOTEXTILE INLET FILTER INSTALLED IN ACCORDANCE WITH DETAIL SD6-12 OF THE BLUE BOOK
 - DENOTES MESH & GRAVEL INLET FILTER INSTALLED IN ACCORDANCE WITH DETAILS SD6-11 OF THE BLUE BOOK
 - DENOTES SANDBAG OR GEOTEXTILE SOCK FILLED WITH NO FINES GRAVEL PLACED IN INVERT OF GUTTER OR ALONG EDGE OF BITUMEN
 - DENOTES INDICATIVE LOCATION OF STOCKPILE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH DETAIL SD4-1 OF THE BLUE BOOK
 - DENOTES EXISTING SERVICE TO BE REMOVED/ABANDONED/DEMOLISHED & DISPOSED OFF SITE
 - DENOTES EXISTING KERB/PAVEMENT/STRUCTURE TO BE DEMOLISHED & DISPOSED OFF SITE, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS
 - DENOTES EXISTING STORMWATER PIPE TO BE RETAINED
 - DENOTES APPROXIMATE LOCATION OF EXISTING (OVERHEAD) ELECTRICITY LINE
 - DENOTES APPROXIMATE LOCATION OF EXISTING WATER MAIN
 - DENOTES APPROXIMATE LOCATION OF EXISTING SEWER MAIN
- LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY & MAY NOT BE COMPLETE. THE BUILDER IS RESPONSIBLE FOR LOCATING EXISTING INFRASTRUCTURE (CULVERTS, PITS, PIPES, SERVICES, INVERT & COVER LEVELS ETC) PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE COUNCIL ASSETS AND THE UTILITIES ARE PROTECTED AT ALL TIMES ANY AND ALL DAMAGES TO COUNCIL ASSETS AND/OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SPECIFICATION OF COUNCIL AND THE UTILITIES AUTHORITY AND AT NO COST TO THE PRINCIPAL OR NORTHPROP CONSULTING ENGINEERS.



DRAWN S BELCHER-VISSCHER DESIGNED MEIHA GREENWOOD JOB MANAGER KARINA BARRETT VERIFIER

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
A	ISSUED FOR DRAFT DA	TS		KB	28.02.24	EAGERS AUTOMOTIVE PTY LTD C/- CENTRIC ARCHITECTS
B	ISSUED FOR DEVELOPMENT APPLICATION	SB		KB	06.03.24	
C	ISSUED FOR DEVELOPMENT APPLICATION	JK		KB	06.11.24	
D	ISSUED FOR DEVELOPMENT APPLICATION	TS		KB	29.11.24	
E	ISSUED FOR DEVELOPMENT APPLICATION	TS		KB	10.12.24	
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ARCHITECT		CENTRIC Architects	
EAGERS AUTOMOTIVE PTY LTD C/- CENTRIC ARCHITECTS		CENTRIC Architects	

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NORTHPROP		Central Coast	
Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250		Ph. (02) 4365 1668	
Email centralcoast@northrop.com.au		ABN 81 094 433 100	

PROJECT		INTERNAL CIVIL WORKS MAITLAND HERITAGE BUNGAREE STREET MAITLAND NSW	
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DRAWING TITLE		INTERNAL CIVIL WORKS SOIL & WATER MANAGEMENT PLAN	
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JOB NUMBER		SY223448	
DRAWING NUMBER		REVISION	
C2.01		F	
DRAWING SHEET SIZE = A1			

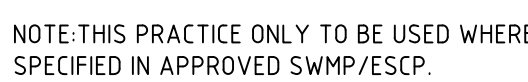
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- SEDIMENT FENCE (SD 6-8)



1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN



1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

MESH AND GRAVEL INLET FILTER (SD 6-11)





- STABILISED SITE ACCESS (SD 6-14)



1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) 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 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)

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LEGEND

---36.4--- DENOTES EXISTING CONTOUR LINES

✕ -0.78 DENOTES DEPTH OF PROPOSED CUT (-VE) OR FILL (+VE)

BELXX.XX DENOTES BULK EARTHWORKS LEVEL

DENOTES SHORING WALL/CAPPING BEAM, REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-4.000	-2.500
2	Red	-2.500	-2.000
3	Red	-2.000	-1.500
4	Red	-1.500	-1.000
5	Red	-1.000	-0.500
6	Red	-0.500	0.000
7	Green	0.000	0.500
8	Green	0.500	1.000
9	Green	1.000	1.500
10	Green	1.500	2.000
11	Green	2.000	2.500

AGOON
LEVEL 14.05.22
R.L.2.79



- BULK EARTHWORKS NOTES**
- BULK EARTHWORKS LEVELS SHOWN ARE BASED ON THE FOLLOWING PAVEMENT THICKNESSES AND ALLOWANCES:
 - TRAFFICABLE CONCRETE PAVEMENT 400mm
 - EXCAVATION OF EXISTING PAVEMENT 400mm
 - TO ALLOW FOR LANDSCAPE 200mm
 - STRUCTURAL BUILDING SLAB 150mm
 - LANDSCAPE TOPSOIL & TURF 150mm
 - THE EXISTING GROUND SURFACE WAS LOWERED BY 150mm UNIFORMLY TO ACCOUNT FOR THE REMOVAL OF VEGETATION AND TOP SOIL AS WELL AS DEMOLITION OF EXISTING CONCRETE SLABS AND PAVEMENTS.
 - BULKING FACTORS OF 10 WAS USED FOR BOTH CUT AND FILL MATERIAL.
 - THE APPROXIMATE SITE EARTHWORKS VOLUMES BASED ON THE NOTED PAVEMENT THICKNESSES ARE OUTLINED BELOW:
 - CUT: 3075m³
 - FILL: 713m³
 - NET: 2362m³ (CUT)
 - THE ABOVE VOLUMES ARE TO BE ASSESSED NOTING THE FOLLOWING:
 - NO ALLOWANCE HAS BEEN MADE FOR DETAILED EXCAVATIONS SUCH AS FOOTINGS, SET DOWNS, SERVICES TRENCHING, SEDIMENT BASIN ETC.
 - NO ALLOWANCE HAS BEEN MADE FOR MINOR ADJUSTMENTS TO PAVEMENT LEVELS OVER EXISTING PAVEMENTS
 - NO ALLOWANCE HAS BEEN MADE FOR TEMPORARY CONSTRUCTION PLATFORMS OR RETAINING WALL BACK FILL
 - NO ALLOWANCE HAS BEEN MADE FOR THE REMOVAL OF CONTAMINATED OR UNSUITABLE MATERIAL.
 - ASSUMED DEPTHS OF PAVEMENT AND STRUCTURAL SLAB ARE SUBJECT TO FURTHER DESIGN PENDING GEOTECHNICAL REPORT.
 - THIS PLAN HAS BEEN PREPARED FOR INFORMATION PURPOSES ONLY AND IS INDICATIVE IN NATURE. THE EARTHWORKS CONTRACTOR IS TO VERIFY ALL LEVELS AND QUANTITIES AND PERFORM THEIR OWN BULK EARTHWORKS ASSESSMENT.




DRAWN S BELCHER-VISSCHER DESIGNED MELBA GREENWOOD JOB MANAGER KARINA BARRETT VERIFIER

NEW ENGLAND HIGHWAY

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B	ISSUED FOR DEVELOPMENT APPLICATION	SB		KB	06.03.24						
C	REVISED FOR DEVELOPMENT APPLICATION	KB		KB	23.01.25						
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ARCHITECT

CENTRIC Architects

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Central Coast
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Ph. (02) 4365 1668
Email: centralcoast@northrop.com.au ABN 81 094 433 100

PROJECT

INTERNAL CIVIL WORKS
MAITLAND HERITAGE
BUNGAREE STREET
MAITLAND NSW

DRAWING TITLE

INTERNAL CIVIL WORKS
CIVIL WORKS PLAN
(OVERALL SITE PLAN)

JOB NUMBER
SY223448

DRAWING NUMBER C4.01	REVISION E
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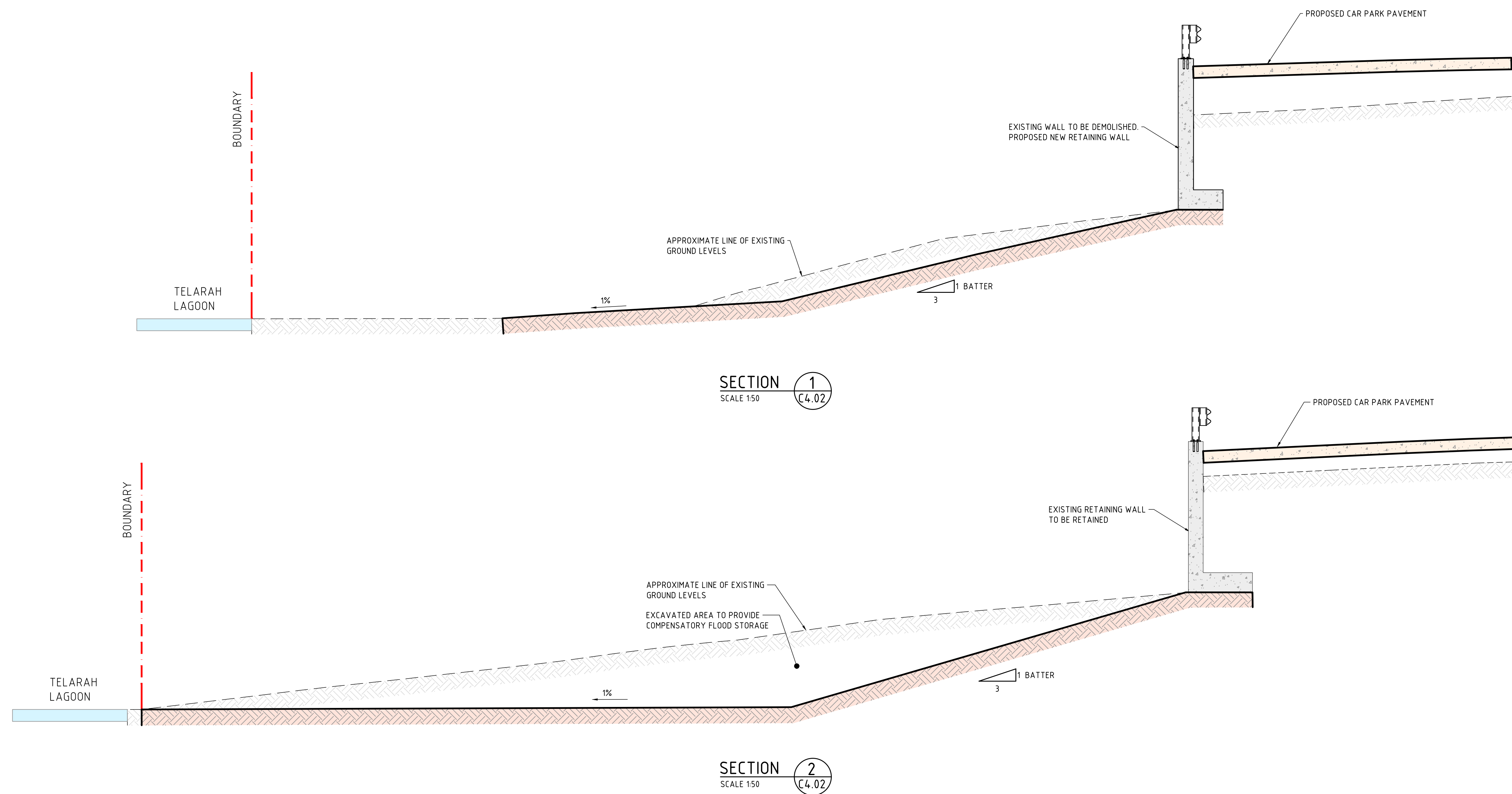
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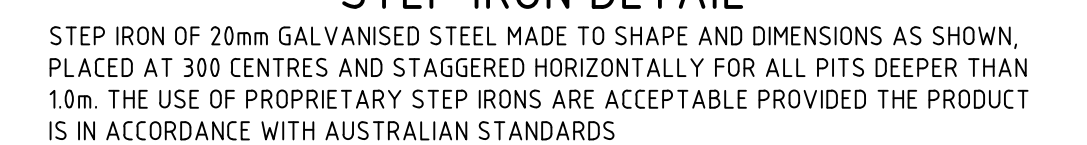
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B	ISSUED FOR DEVELOPMENT APPLICATION	TS		KB	26.11.24						
C	ISSUED FOR DEVELOPMENT APPLICATION	TS		KB	10.12.24						
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