PROPOSED ASPHALT PLANT AT: LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE

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FOR CONSTRUCTION

11	REVISED DEVELOPMENT APPLICATION	12.11.24	@ (© Copyright MPC Consulting Engineers as date of issue	
10	REVISED DEVELOPMENT APPLICATION	15.10.24	Substituting Engineers as date of issue		
9	FOR APPROVAL	10.10.24	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS ENDORSED BELOW		
8	REVIEW	10.7.24			
7	REVISED DEVELOPMENT APPLICATION	27.3.24			
6	DEVELOPMENT APPLICATION	15.11.23			
5	REVISED DEVELOPMENT APPLICATION	19.10.23			
4	DEVELOPMENT APPLICATION	17.10.23			
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE

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contract. (Any discrepancy shall be referred to the Superintendent/Engineer before proceeding with the work. In case of discrepancy, precedence is given to drawings, then notes, then specification.) G2 Materials and workmanship shall be in accordance with the relevant and current SAA codes, Local Government requirements or other relevant Building Authority. G3 All dimensions shown shall be verified by the builder on site. Engineers drawings shall not be scaled. G4 During all stages of construction, the structure shall be maintained in a stable condition with all

temporary bracing and support of the structure being the responsibility of the contractor. The determination by the contractor of a safe work method remains the responsibility of the contractor as the documents, drawings and any written instructions, provided by MPC Consulting Engineers during the contract do not describe a work method. The design and installation of any temporary works remains the responsibility of the contractor. Any elements determined by the contractor of posing an unacceptable level of safety risk to construct shall be referred to MPC Consulting Engineers. The Occupational Health and Safety Act and Workcover Codes of Practice shall be

G1 These drawings shall be read in conjunction with all Architectural & other consultants drawings

& specifications and with such other written instructions as may be issued during the course of the

G5 U.N.O. denotes "Unless Noted Otherwise". All dimensions shown are in millimetres U.N.O.

G6 This design and issue is based on Architectural Drawings by G7 Construction works using these drawings must not commence until the drawings have been signed and 'Issued For Construction'. MPC Consulting Engineers accept no responsibility for any work not inspected or not approved by MPC Consulting Engineers during construction.

G8 It is the responsibility of the head contractor or site supervisors to ensure that all works noted on site or written instructions are carried out. Any queries or clarifications must be directed to MPC Consulting Engineers.

G9 Provide scaffolding, fall restraint, hand and mid rails and toe boards for work at height. Erect

access stairs at earliest opportunity to reduce open shaft hazards and facilitate access maintain safety mesh and barriers to all openings and elevated edges. G10 Submit details of changes to scope, work methods or materials etc for approval before proceeding.

Approval does not authorise a variation to the contract. G11 Check structural drawings against mechanical, electrical services and other drawings for equirements for penetrations, conduits, ducts, pipes, etc. G12 Nomination of proprietary items does not indicate exclusive preference but indicates required

properties of item. Similar alternatives having required properties may be offered for approval. Approval does not authorise a variation to the contract. Install proprietary items in accordance with manufacturers requirements and recommendations. G13 Give two working days' (48 hours) notice so that inspection may be made of critical stages of work.

G14 All inspections undertaken by superintendent or others do not relieve contractor of responsibility for compliance with drawings and specifications.

G15 Survey and setting out to be undertaken by a Registered Surveyor. G16 Verify on site setting out dimensions and existing member sizes shown on drawings before shop drawings, construction and fabrication is commenced. Existing structures shown on drawings are in approximate locations only.

G17 Take care of hazards associated with buried, concealed or overhead services. Undertake exploration to establish location of and protect existing services at site services shown on drawings are in approximate locations only, services other than those shown may exist on site. Mark locations of services clearly on site and on as-built drawings. Hand excavate within one metre of in-ground G18 These drawings do not detail temporary works. Construction methods and temporary works are

responsibility of the contractor. G19 Implement soil and water management procedures to avoid erosion. Contamination and sedimentation of site, surrounding areas and drainage systems.

G20 Make good any damage to existing elements at completion of works. G21 Contractor to reflect any expansion, dowel or untied joints in structure through brittle floor, wall and ceiling finishes to Architects and manufacturer specifications.

FOUNDATIONS & SLABS ON GROUND: F1 Refer to Geotechnical Investigation Report No.by............. Notify superintendent if conditions encountered differ from those described in the reports & seek directions. F2 Footings have been designed for an allowable bearing pressure of kPa U.N.O.

F3 The contractor shall allow to engage a qualified (NER) Geotechnical Engineer to inspect the foundation material and submit to MPC Consulting Engineers certification in writing confirming the design allowable bearing pressure stated in 'F1' prior to the placement of reinforcement or concreting foundations.

Contact MPC Consulting Engineers if other conditions encountered on site. F5 Construct footings founded in specified materials (as stated, or in Geotechnical Report) remove softened or loose material and material that does not achieve these pressures.

F6 The subgrade preparation shall include the following: * Strip existing topsoil, vegetation and root affected or other deleterious materials. * Excavate areas of proposed cut to desian subarade level and proof—roll the exposed surface. * Obtain geotechnical inspection and advice at this stage to confirm the design parameters. * Restrict access to the subgrade to tracked vehicles only (i.e. No wheels). * The required thickness of topsoil to be stripped and select subgrade should be confirmed by the

contractor after geotechnical testing & inspection during construction. F7 Footings shall be excavated to the dimensions detailed and inspected and filled with concrete as soon as possible. The contractor is to allow for concrete screed to all strip footings or footing beams where appropriate (based on site conditions) to avoid softening of the base material. F8 Sedimentation control measures:

* The contractor shall manage or otherwise engage a Soil and Water Consultant to manage the site on an ongoing basis. * Where regrassing is not carried out immediately, temporary measures such as contour drains, diversions and ponds are to be constructed and maintained until grass cover is established. * All topsoiled and disturbed areas including batters, stormwater, interallotment and subsoil drainage trenches, swales and open drains shall be grassed by drill seeding unless noted otherwise. This shall include preparation of ground, sowing and maintenance for 3 months after council approval. * Areas to be turfed 600mm behind all kerb & gutter and all temporary drains as well as areas noted

* Footpath areas to be restored at the completion of underground electricity, telstra, gas. F9 Keep excavations free of water. Provide adequate drainage to ensure formation is not affected by moisture. Prevent foundation drying out due to exposure. Place blinding, footings, piles and backfill as soon as practicable after excavation. F10 Ensure excavations are stable and protect surrounding property and services from adverse effects of

ground works. Provide temporary works as required. Provide engineer certified shoring to all deep excavations where required. F12 Provide safety mesh and other protection to prevent exposure of personnel to excavations during

foundation construction. F13 Use suitable construction techniques and equipment for backfilling adjacent to structures to prevent overstress and damage. Backfill evenly to avoid differential soil pressures on structures backfill against retaining walls only after specified concrete strength is achieved, and permanent support installed where

F14 Backfill for retaining walls to be free draining granular material. Provide drainage behind retaining walls comprising continuous slotted drain with granular surround, or nylex "coredrain" connected to reticulated stormwater drainage system. Provide 50mm diameter weepholes at 1200 maximum centres at base of wall. F15 Provide 0.2mm high impact resistant virgin polyethylene film damp proof membrane to AS2870 on 50mm sand blinding where shown on drawings. Lap 200mm and seal damp proof membranes, tape of penetrations, etc to ensure a complete vapour barrier in accordance with manufacturer's recommendations

and AS2870. Prevent puncturing or damage by placing a plastic plate under reinforcement supports. F16 Top of concrete slab to be at least 50mm above adjacent ground levels. Ground surrounding building to be sloped so that water will drain away from building to suitable discharge points. Where achieved by filling, fill to be less permeable than underlying material.

F17 Slope services trenches away from building. Bed services on compacted material compatible with natural material on site. Backfill top 300mm of trenches with hand compacted clay within 1200mm of building. F18 For sites classified 'M' or greater reactivity; where services pass under footings, backfill trenches with

hand compacted clay or blinding concrete for 1500mm each side of footing against clean, dry, undisturbed natural material. Backfill trenches with hand compacted clay within 1500mm of building. F19 Provide 2 x proprietary flexible joints in stormwater and wastewater services not less than 600mm apart within 800mm of exterior of building perimeter in accordance with AS3500.2 (Using Proprietary Coupling,

Swivel and Combination Expansion Joint Products to Manufacturers Specifications)

F20 Where services pass through middle third of footing, wrap pipes in closed-cell polyethylene compressible material as follows: Refer to Specification Note 'F4' for Site Classification and for Class A. S and M. provide 10mm thick wrappina. Class H1 - 20mm wrapping and Class H2. E and P to have 40mm wrapping. F21 Where pipe pass vertically through foundation systems, provide proprietary flexible connections using combination slab adaptors, couple sleeves and expansion joints to allow for reactive ground movement

in accordance with AS3500 and AS2870. F22 For sites with Mine Subsidence Design Parameters specified on the documents, all services in addition to notes above passing through horizontal ground slabs and footings must account for flexible connections with proprietary Swivel and Combination Expansion Joints (To Manufacturers Specifications) to allow ground movement of \pm 50mm (UNO).

F23 For services under slabs in site material classed as 'unstable' or 'non-compacted material' (less than 95% Standard Compaction), proprietary stainless steel hangers must be used to support

all hydraulic services at 500mm centres (UNO). F24 Following construction foundation maintenance to be in accordance with CSIRO Building Technology File 18 Foundation Maintenance and Footing Performance A Homeowner's Guide" EARTHWORKS: E1 The contractor shall review the Geotechnical Engineering Report, Remove all topsoil, organic matter

rubble, uncontrolled fill, unsuitable material at the direction of the Geotechnical Engineer. All materials stockpiles and all earthwork areas shall have sediment and erosion control measures installed in accordance with the "Blue Book" (Managing, Urban Stormwater Soils and Construction, produced by Landcom). Any surplus excavated topsoil shall be removed from site and disposed of in accordance with

E2 Proof roll all exposed natural sub-grade for building platforms, paved areas, areas to be filled, or cut batters in the presence of a suitably Qualified Geotechnical Engineer who will certify the works. E3 Allow for excavation in all materials as found U.N.O. Any surplus excavated material shall be removed

from site and disposed of in accordance with EPA guidelines. E4 Ensure that there is continuity of compaction between building platforms in both cut and fill greas. E5 Testing of the sub-grade shall be carried out by an approved N.A.T.A. registered laboratory and in accordance with AS3798. Where the fill is to provide support to building floor slab, level 1 testing

procedures (in accordance with AS3798) shall be followed, otherwise level 2 testing shall be undertaken. E6 The contractor shall allow in their price for all costs associated with geotechnical testing during E7 U.N.O. Provide suitable compaction equipment to achieve specified standards. Refer to geotechnical

engineering report for site sub-grade preparation quidelines. All fill materials shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+/-2%) to achieve the following standards: * Service trenches (not under pavements) * Service trenches under pavements 100% standard

* Top 600mm to subarade level under payed areas 100% standard * Landscaped and general areas

* Sub-Base Laye 100% standard Testing of placed fill shall be at the direction of the geotechnical engineer and suitable for the works E8 Provide to the superintendent all necessary test certificates and certifications for all earthworks and

E9 Ensure that all earthworks areas are free draining and do not pond water. Provide temporary drainage or sump pumping as required until sufficient site stormwater drainage has been installed.

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GENERAL NOTES

COVER SHEET AND

C1 Workmanship and materials to comply with AS3600, AS2870, AS3610, AS1379, AS1478, AS3582 and AS3972 for liquid retaining structures also comply with AS3735. C2 Wet concrete to be uniform, homogeneous, cohesive and able to work readily into corners and around reinforcement completely filling formwork without segregation, excess free water on surface, loss of material or contamination. Concrete to have good dimensional stability and able to resist plastic settlement cracking, thermal

cracking and shrinkage cracking. C3 Review location of embedded items to minimize possible zones of poor compaction

that may compromise structural integrity.

C4 Externally exposed concrete to be classification B1 U.N.O. C5 Concrete quality shall be as follows:

Element	f'c MPa	Slump mm	Max Agg.	Reinforcem Internal Btm Top	ent cover External Btm Top
FOOTING	25	80	20	-	50
BLOCK CORE FILL	20	230	10	REFER TO DETAIL	

U.N.O. Concrete shall be "Normal Class" to AS1379 C6 'A' Denotes concrete to be Special Class Grade to AS1379,

with the following parameters: • Durability of natural fine aggregates to comply with AS2758.1:2014 Clause 9.2.1. • Durability of course aggregates to comply with AS2758.1:2014 Clause 9.3.2 and

AS1141.22 (Wet Strength and wet/dry strength variation) for exposure class Agaregate reactivity classification pursuant to AS1141.60.1 to be "non-reactive" C7 Sampling, testing and acceptance: Permanent records of plant assessment and project assessment shall be maintained at the plant and project respectively. Copies of these records shall be given promptly to the Engineer. Concrete is subject to project assessment. Sampling and testing shall comply with AS1379 and this specification and all such costs shall be borne by the contractor. The sampling and site treatment of project control test specimens shall be carried out by a NATA laboratory other than that of the supplier. Acceptance of concrete prior to placement shall be based on measured slump for compliance with the specification. Acceptance to hardened concrete for design properties shall be in accordance with AS1379. • C8 U.N.O. Concrete shrinkage to be 700 microstrain maximum at 56 days. Test method AS 1012 Part 13.

C9 Construction tolerances to be in accordance with AS3610. C10 Provide drip grooves in soffit of beams and slabs at external perimeter of structures.

Ensure cover to reinforcement is achieved. C11 Depths of beams are given first and include slab thickness

C12 For chamfers, drip grooves, reglets, etc. refer to Architects' details. C13 Do not make holes, penetrations, recesses, chases, nor embed pipes (other than those shown on structural drawings) without approval of superintendent. Do not place conduits, pipes etc within cover concrete. Locate conduits, pipes etc only in middle third of slab or beam depth and between reinforcement layers, and spaced at 3 x

diameter centres minimum. Do not cut reinforcement at penetrations without approval. C14 Concrete cover shall be maintained by the use of plastic bar chairs at 750mm maximum centres U.N.O. Plastic tipped ferrous chairs not permitted. C15 Construction joints where not shown shall be located to the approval of the Engineer

C16 Symbols on drawings for grade and type of reinforcement are as follows: Denotes grade 500 normal ductility deformed bar to AS4671 R Denotes grade 250 normal ductility plain round bar to AS4671

Denotes grade 500 low ductility welded square mesh to AS4671 RL Denotes grade 500 low ductility welded rectangular mesh to AS4671 C17 Reinforcement is shown diagramatically and not necessarily in true position. C18 Splices in reinforcement shall be made only in positions shown or otherwise approved

C19 Cogs and hooks to be standard in accordance with AS3600 C20 Reinforcement splices unless noted otherwise on the drawing.

All splices shall conform to the following table:

Deformed Bar			Minimum Bo	ar Development	Length	1	
Diameter	Footings	Slabs	Walls/Columns	Beams<350MM	DEEP	Beams≥350MM	DEEP
N12	460	350	350	350		460	
N16	610	480	470	480		620	
N20	800	660	600	660		850	
N24	1070	850	800	850		1100	
N28	1370	1060	1000	1060		1370	
N32	1690	1270	1220	1270		1650	
N36	2030	1490	1460	1490		1930	

i) Plain Bars — Actual lap length for plain (non—deformed) bars shall be 1.5 times the basic lap length.

Epoxy-Coated Bars - Actual lap length shall be 1.5 times the basic lap length. Lightweight Concrete - Actual lap length shall be 1.3 times the basic lap length. v) Structural elements built using slip forms — actual lap length shall be 1.3 times the C21 Fabric splices shall be made by either of the following methods:-

_____ 25mm MIN. Minimum (2) Lapping of fabric (Mesh Type) • • • _____ 25mm MIN. Minimum

(1) Lapping of fabric (Standard Fabric)

splice length Fabric Splice bar length is 800mm or 1000mm for horizontal bars where more than

300mm concrete cast below bar Spacing of Bars mm At sheet sides RL1018 RL718, RL818

C22 Welding of reinforcement is only permitted where shown on the drawings or otherwise approved by the Engineer. Where welding of reinforcement is approved

it shall be carried out in accordance with AS1554. Part 3. C23 Dowels shall be sawn to length. In skewed joints, dowels shall be aligned with the longitudinal joints. Dowel alignment to be maintained by use of a support assembly suitable to ensure a horizontal and vertical tolerance of 5 in 400. C24 Minimum lap of fabric shall be two transverse wires plus 30 mm. Minimum 500mn lap length for trench mesh.

C25 All concrete shall be placed and cured in accordance with Australian Standards. Curing must be applied to slabs immediately after finishing and onto walls and columns immediately after removal of formwork. Curing compounds must be compatible with future finishes and comply with AS3799.

C26 Builder shall be responsible for design of formwork, shoring and scaffolding Formwork and shoring shall comply with AS3610. Scaffolding shall comply with AS1576 C27 Do not strip formwork until concrete is hardened sufficiently to withstand movement and form removal without damage. Strip formwork to AS3600 Clause 17.6 Remove form tie bolts without damaging concrete, parts of bolts left in concrete must not intrude into cover concrete. Flush fill holes using pre-mixed non-shrink cementitious repair mortar matching concrete surface colour, strength and durability and adequate

agined adequate strenath before constructing walls or placing other permanent loading C28 Slabs and beams shall bear only on the columns and walls shown on the drawing All other building elements shall be kept 20mm clear from the soffits of structure. C29 Where transverse tie bars are not shown provide N12-300 spliced where necessary and lap with main bars 400mm. All penetrations to have 2-N16 trimmer bars to

bond. Remove props and formwork for beams and slabs and ensure concrete has

and bottom to each face UNO. Extend trimmers 600mm beyond penetration. C30 Site bending of reinforcement bars shall be done without heating. The bars shall be bent using a re-bending tool and against a flat surface or a pin with a diameter not less than the minimum pin size prescribed in AS3600. C31 U.N.O. all hold down bolts shall be hot dipped galvanised

C32 U.N.O. all masonry anchors into concrete shall be M20 ramset trubolts (145 min embedment) or approved equivalent. Bolts shall be galvanised for internal environments Stainless steel GR316 bolts should be used for all external conditions or in cavities where they are not readily accessible or visable. C33 Install waterstops onto smooth concrete surface. Do not scabble concrete beneath

water stops. C34 Saw cut crack control joints as soon after casting as practicable to avoid spalling or ravelling of joint edges, and within 16 hours of casting to prevent thermal and/or shrinkage cracking of slab. Immediately after saw cutting, flush out joints to remove awing residue and insert a temporary foamed plastic bead to keep joint clean prior to filling or sealing protect saw cuts from wheel loads for at least one week after C35 Do not install seglants if expected maximum daily temperature exceeds 30° degrees

celcius. Ensure recesses are clean and dry prior to installing fillers or sealants, and prepare in accordance with manufacturer's recommendations. Tolerance on sealant widths +5, -0 mm. C36 Do not use formwork that forms a complete hole through concrete elements. Do not use reinforcement to support formwork.

concrete test results can confirm that suitable strength exists to support any proposed loads. MPC should be contacted prior to carrying out any works. C38 Provide 10 abelflex where slabs abut brickwork and poured slabs etc

C37 Do not stack loads of materials or traffic slabs with construction equipment until

PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215. No.3 WARREN ROAD, WARNERVALE

DC	NOT SCALE	DRAWING	
DRAWN	ENGINEER	No in SET	SHEET
C.H.	P.M.	_	A1
SCALES	JOB No	DRAWING No	ISSUE
1:250	230470	C01	11

The safety risk mitigation items set out below are based on MPC Consulting Engineers desig

office experience and may not take into account all construction, operation, maintenance and

in its capacity as designer only, MPC Consulting Engineers has tried to identify certain safety

risks pertaining to the construction, operation. maintenance and demolition phases of the

asset the inclusion (or not) of any item does not reduce or limit the obligations of the

constructor user, maintainer and demolisher to undertake appropriate risk management

activities to reduce risk and is not an admission by MPC Consulting Engineers that the

SID2 Construct building elements that contribute to safety, such as fall arrest systems, access

SID3 Review adequacy of working space available for construction activities. Ensure separation of

SID5 Provide protection to personnel from plant and equipment, including post-tensioned ground

near live electrical infrastructure. Provide protection of electrical overhead wiring systems

building boundaries where adjacent basements, earth or retaining structures are present.

heavy surface plant and equipment or stockpiling material near open excavations or existing

SID10 Seek advice from suitably Qualified Geotechnical or Structural Engineer prior to operation of

SID11 Do not stockpile materials behind or excavate in front of existing retaining walls until wall

SID13 Have load capacity of structures verified by suitably Qualified Structural Engineer before

loading or storing materials on existing or partially completed structural elements.

SID15 Seek advice from suitably Qualified Structural Engineer before coring, chasing, cutting or

masonry and stud walls where fixings or equipment is to be attached.

SID18 Establish locations of live embedded services before cutting through slabs, etc.

with suitably Qualified Structural Engineer prior to lifting and installation.

removal of existing concrete and reinforcement.

SID16 Have suitably Qualified Structural Engineer undertake structural check of existing concrete,

SID17 Instruct services contractors that under no circumstances can structural members be cut,

SID19 Develop steelwork/precast/tilt up installation safe work method statement to eliminate and

SID20 Do not cut or unbolt any structural members without seeking review by Qualified Structural

SID21 Provide buckling stability to long span beams, trusses etc during erection. If unsure, check

SID22 Minimize site based treatments (eg welding, cutting, spray painting. grit blasting, etc). Provide

SID23 Try to avoid working in confined spaces. If confined spaces work can't be avoided, provide

SID24 Avoid hot works on site particularly in timber framed structures. Hot works to comply with

SID25 Some sites in Australia contain unexploded ordnance (uxo) in the ground. Undertake desktop

SID26 Determine appropriate method of paint removal and disposal before stripping paint, particularly

SID27 Make work areas safe where structural elements are damaged. Cracked or have suffered

SID28 Report significant section loss or corrosion flaking before starting painting or repairs. Consult

suitably Qualified Structural Engineer if section loss or extensive corrosion flaking present

significant section loss before allowing general construction or repair access.

SID29 Develop and implement risk mitigation strategies before allowing access over suspended

SID31 Remove material from storage structures before undertaking maintenance work.

GC1 All work is to be carried out in accordance with Council's Civil Construction

Specification and Subdivision Policy to the satisfaction of the Director -

GC2 All erosion and sedimentation control measures are to be carried out in accordance

with Council's Code of Practice for Erosion and Sedimentation and must be

implemented prior to the commencement of any building of civil works. The

GC3 All public utilities are to be clearly identified in the field prior to any civil works.

GC4 Council is to be notified prior to the commencement of any works.

with the Occupational Health and Safety Act.

GC9 All disturbed areas to be shaped and turfed.

RETAINING WALLS — ALSO REFER TO 'MASONRY' NOTES

RW4 Provide clean-out blocks to base of each pour lift.

and maximum aggregate size of 10mm UNO

RW5 Fill concrete blocks with 20 MPa concrete, 230mm slump

developer is responsible for ongoing maintenance of erosion and siltation control

Council accepts no responsibility for damage or relocation costs to utilities during

properties is to be obtained and submitted to Council prior to commencement of any

engineer and submitted to Council for approval prior to commencement of any works.

GC5 It is the contractor's responsibility to ensure that all works are carried in accordance

GC6 Permission to enter, construct works and discharge storm water onto adjoining

GC7 Pavement to be designed and certified by a practicing consultant geotechnical

GC8 All rectification work arising from insufficient information being shown on the

GC10 The plans to be read conjunction with engineering plan approval correspondence

RW6 Horizontal reinforcement in walls to be spliced 600 at joins in walls and corners

RW7 Provide continuous AG Drains behind the entire extent of all retaining walls.

Connect and discharged into council stormwater or absorption pits.

RW9 Provide waterproofing membrane as required to Architect's specification.

For retaining wall footing steps and corners, refer to details for requirements.

RW8 500 Perpend weepholes are to be at 1200mm maximum centres or as shown on details.

Design, extents and certification of membrane to be provided by waterproofing specialist.

submitted plans is to be carried out to the engineer's satisfaction.

RW2 Walls to be constructed from 190 and/or 290 thick hollow concrete blocks.

RW1 Retaining wall footings to be founded on natural cut ground, not fill.

RW3 Block walls to be constructed in 1000mm maximum high lifts.

SID30 Report loose or missing bolts etc in connections encountered during day to day operations.

on historic structures. Provide screening to public and environment for paint removal and

cleaning operations. Use environmentally appropriate restoration methods during maintenance

reviews for the likelihood of uxos before commencing any ground investigation or excavation

in these areas. Should evidence indicate potential uxo presence, do not commence ground

works until engaging a Specialist Consultant, who can help define any future clearance tasks

safe work method statement addressing mitigation of risks. Provide adequate signage to

adequate protection, screening and ventilation to minimize hazards to personnel if site based

minimise installation risks, and have reviewed by suitably Qualified Structural Engineer prior to

SID14 Seek advice from suitably Qualified Structural Engineer if planning crane lifts or hoist

SID12 Seek advice from suitably Qualified Structural Engineer before laying services below existing

SID6 Ensure isolation safe systems of work or protective measures are installed before working

SID8 Formal access and egress to excavations is advised in event of inundation, collapse or

inclusion of any item is a designer's responsibility.

plant and personnel on site, including movements of both.

SID7 Written risk assessments are advised for access to open excavations.

stability has been reviewed by suitably Qualified Structural Engineer.

installation on partially erected or suspended structures.

notched or drilled to accommodate new services.

temporary and permanent confined spaces to AS2865.

client procedures for applicable 'hot works permits'.

cladding finishes that may become brittle over time.

SID4 Locate lifting slew and lay down areas away from regular construction traffic.

stairs, etc as early as possible.

anchor installation works.

retaining structures.

treatment is unavoidable.

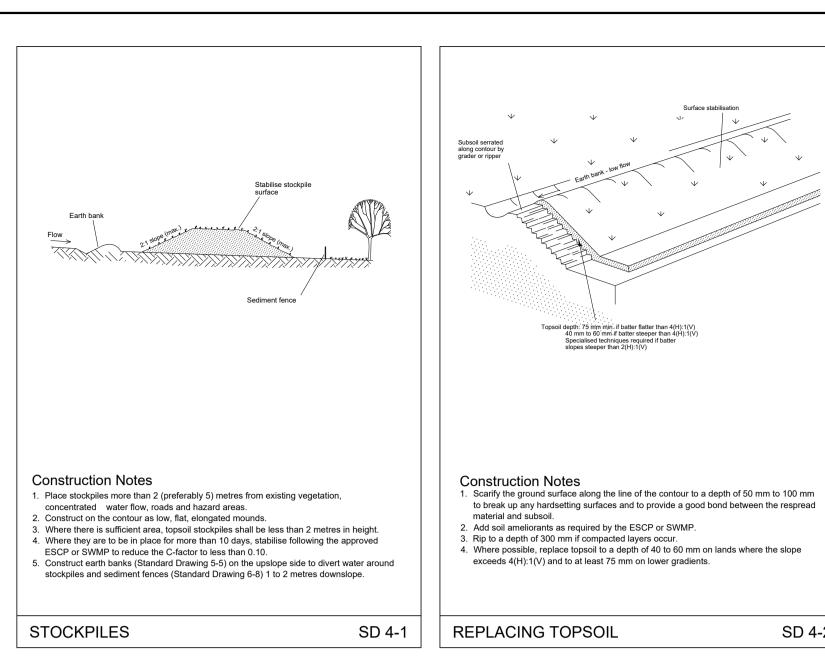
Development/Environment.

demolition safety risks. Based on the information available at the time this drawing was made

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

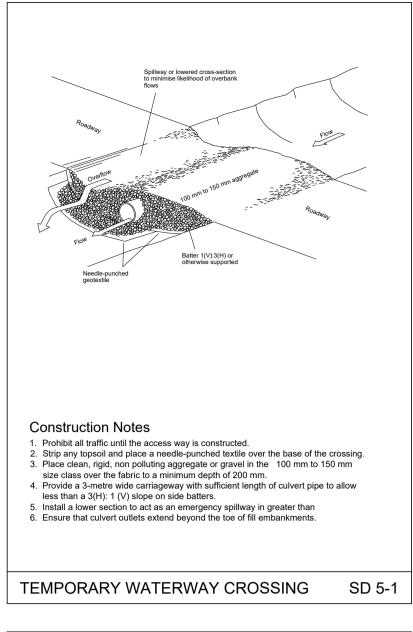
INITIAL SITE ESTABLISHMENT SEDIMENTATION AND EROSION CONTROL PLAN SEDIMENTATION AND EROSION CONTROL NOTES 1. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WIND ROWED ON THE CONTOUR. 2. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE. 3. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE. 4. NO MORE THAN 150m OF TRENCH TO BE OPEN AT ANY ONE TIME. 5. CUT AND FILL BATTER GRADIENTS OF 1:2 (MAXIMUM). 6. A STRIP OF TURF 450mm WIDE IS TO BE PLACED IMMEDIATELY BEHIND THE KERB ON ALL NEW ROAD TO ACT AS A FILTER TRAP. REFER TO DETAIL SD6-13. 7. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY SITE SUPERVISOR AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED STOCKPILE SITE. 8. THE PROJECT MANAGER TO INFORM ALL CONTRACTORS AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN. 9. NO DISTURBED AREA IS TO REMAIN DENUDED LONGER THAN 14 DAYS. 10.ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S OPERATION. CONCRETE 11. THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAY'S WORK. WALLED 12. ORANGE BARRIER TAPE TO BE AFFIXED TO TOP OF SEDIMENT CONTROL BARRIER TO IDENTIFY WORK AREA. CONCRETE BUILDING 13.ALL SEDIMENTATION & EROSION CONTROL MEASURES ARE TO STRICTLY COMPLY WITH THE GUIDELINES DETAILED IN THE WALLED METAL ROOF DEPARTMENT OF HOUSING PUBLICATION, "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", 4TH EDITION. BUILDING 14. WATER TRUCKS TO BE USED AS REQUIRED TO PREVENT WIND EROSION. METAL ROOF LOT 403 15. SUBGRADE MATERIAL TO BE CONSTRUCTED IMMEDIATELY FOLLOWING FILL. D.P. 1058215 LOT 4020 LOT 4021 VACANT D.P. 1122653 <u>LEGEND</u> D.P. 1122653 SEWER MAIN S DENOTES EARTH BANK (LOW FLOW), GRATED PIT REFER TO DETAIL SD5-5 OUTLEȚ RL 11.28 DENOTES EARTHBANK (HIGH FLOW), REFER TO DETAIL SD5-6 DENOTES SEDIMENT BASIN, 149m³ SETTLING ZONE, BASIN 1 75m³ SEDIMENT STORAGE, 224m³ TOTAL STORAGE, REFER TO DETAIL SD6-4 DENOTES SEDIMENT FENCE, REFER TO DETAIL SD6-8 DENOTES STABILISED SITE ACCESS, REFER TO DETAIL SD6-14 DENOTES ENERGY DISSIPATOR BASIN 1 DENOTES DIRECTION OF SURFACE FLOWS SEDIMENT BASIN + DESIGN DATA DESIGN DATA BASIN 1 16.49 TOTAL CATCHMENT AREA (ha) 1.0930 DISTURBED CATCHMENT AREA (ha) 1.0343 SOIL TEXTURE GROUP SMH SL12,53 DESIGN RAINFALL DEPTH (DAYS) DESIGN RAINFALL DEPTH (PERCENTILE) 75 LOT 413 D.P. 1058215 X-DAY, Y-PERCENTILE RAINFALL EVENT 26.8 "WOOLWORTHS RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM 11.4 DISTRIBUTION CENTRE" \triangleleft RAINFALL EROSIVITY (R-FACTOR) 2820 VOLUMETRIC RUNOFF COEFFICIENT 0.51 18.66 0 \propto Z BENCH MARK SSM 118597 R.L 20.476 A.H.D. (SCIMS 10/07/2017) APPROXIMATE LOCATION OF LOT 411 GRATED PIT SMH OUTLET RL 13 66 SL13.64 D.P. 1058215 VACANT FOR CONSTRUCTION REVISED DEVELOPMENT APPLICATION © Copyright MPC Consulting Engineers as date of issue COPYRIGHT DO NOT SCALE DRAWING REVISED DEVELOPMENT APPLICATION 17.10.24 16 Telford Street, NEWPAVE PROPOSED ASPHALT PLANT AT; REVISED DEVELOPMENT APPLICATION 15.10.24 NEWCASTLE EAST, NSW 2300 THIS DRAWING IS NOT TO BE The concepts and information contained FOR APPROVAL 10.10.24 PO BOX 553 ENGINEER No in SET in this document are the copyright of DRAWN **USED FOR CONSTRUCTION UNLESS ENDORSED BELOW** LOT 410, DP 1058215, 10.7.24 THE JUNCTION, NSW 2291 MPC Consulting Engineers **A1** REVISED DEVELOPMENT APPLICATION Tel: (02) 4927 5566 27.3.24 Use or copying of the document in whole No.3 WARREN ROAD, INITIAL SITE ESTABLISHMENT DEVELOPMENT APPLICATION Fax: (02) 4927 5577 or in part without the written permission 15.11.23 SCALES JOB No DRAWING No ISSUE Email: admin@mpceng.com.au REVISED DEVELOPMENT APPLICATION 19.10.23 of MPC Consulting Engineers constitutes SEDIMENTATION AND EROSION CONTROL PLAN | WARNERVALE 230470 an infringement of copyright. Web: www.mpceng.com.au civil+structural REASON FOR ISSUE DATE DATE OF RELEASE RESPONSIBLE PRINCIPAL SIGNATURE A.C.N. 098 542 575

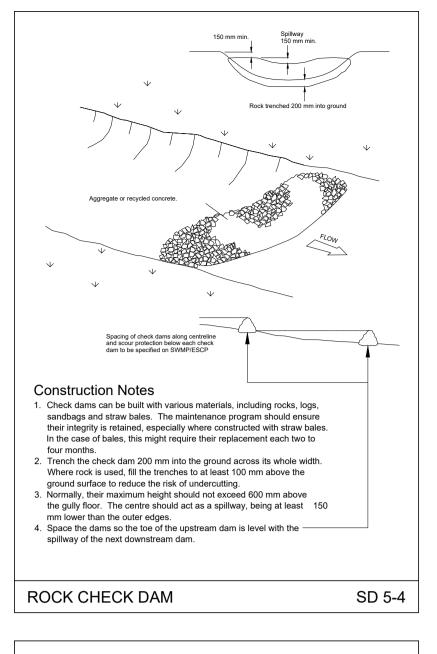
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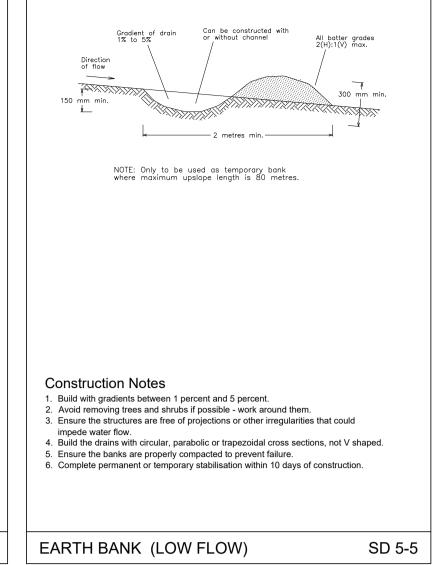


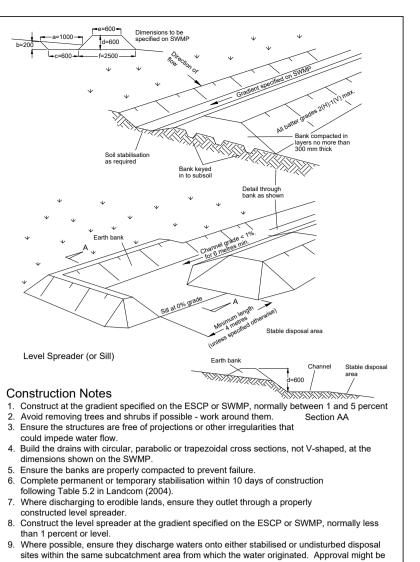
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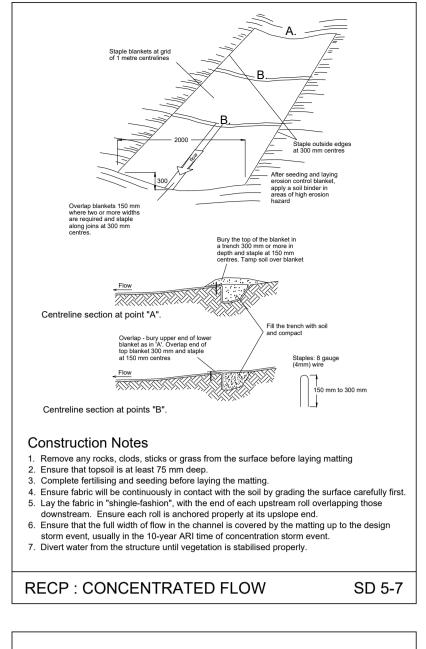
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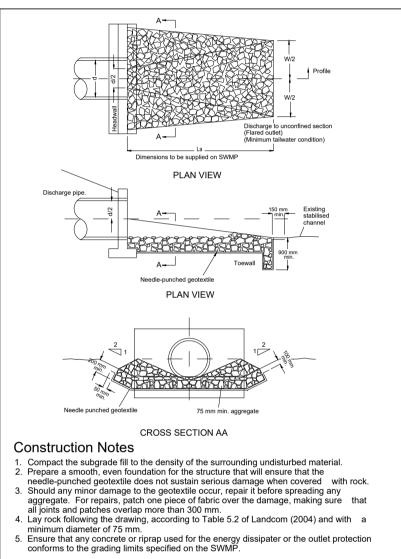




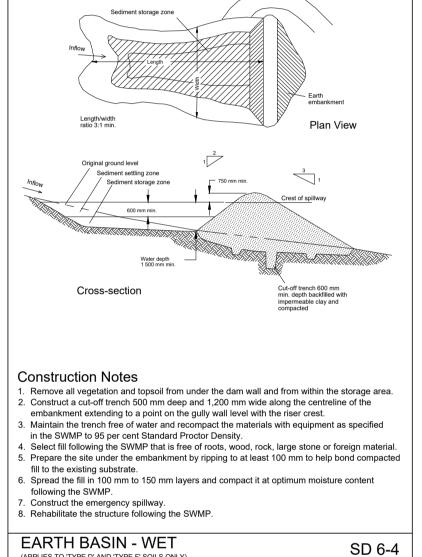


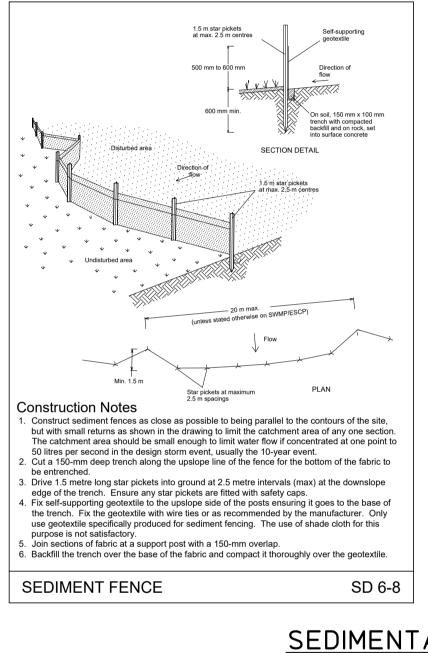


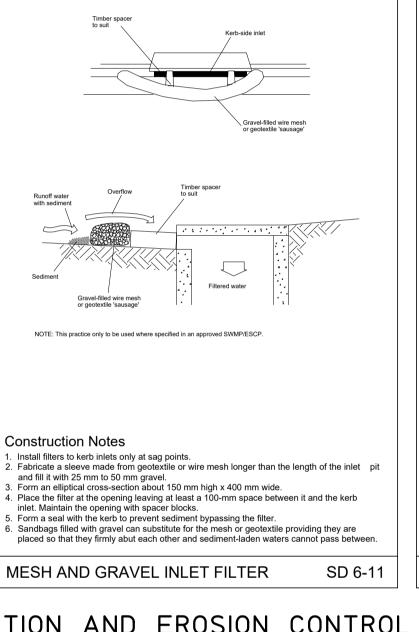


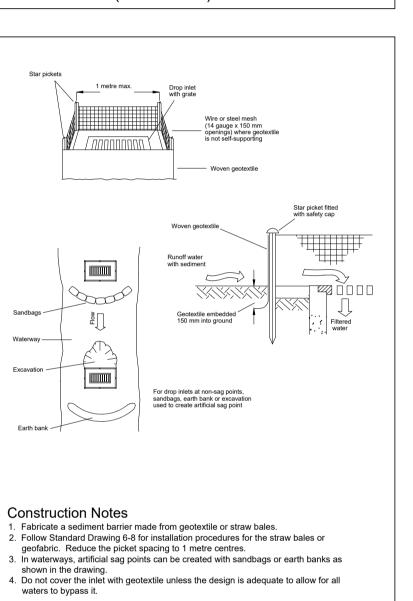


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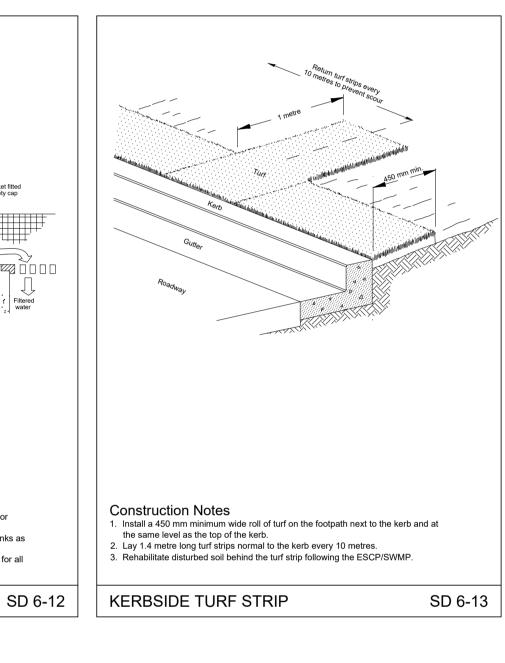






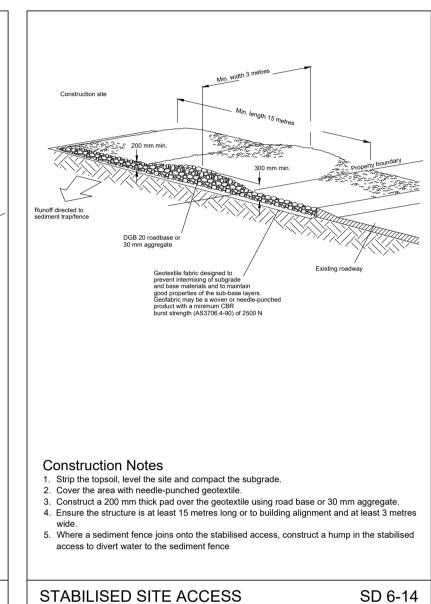


GEOTEXTILE INLET FILTER



required to discharge into other subcatchments.

EARTH BANK (HIGH FLOWS)



SEDIMENTATION AND EROSION CONTROL DETAILS

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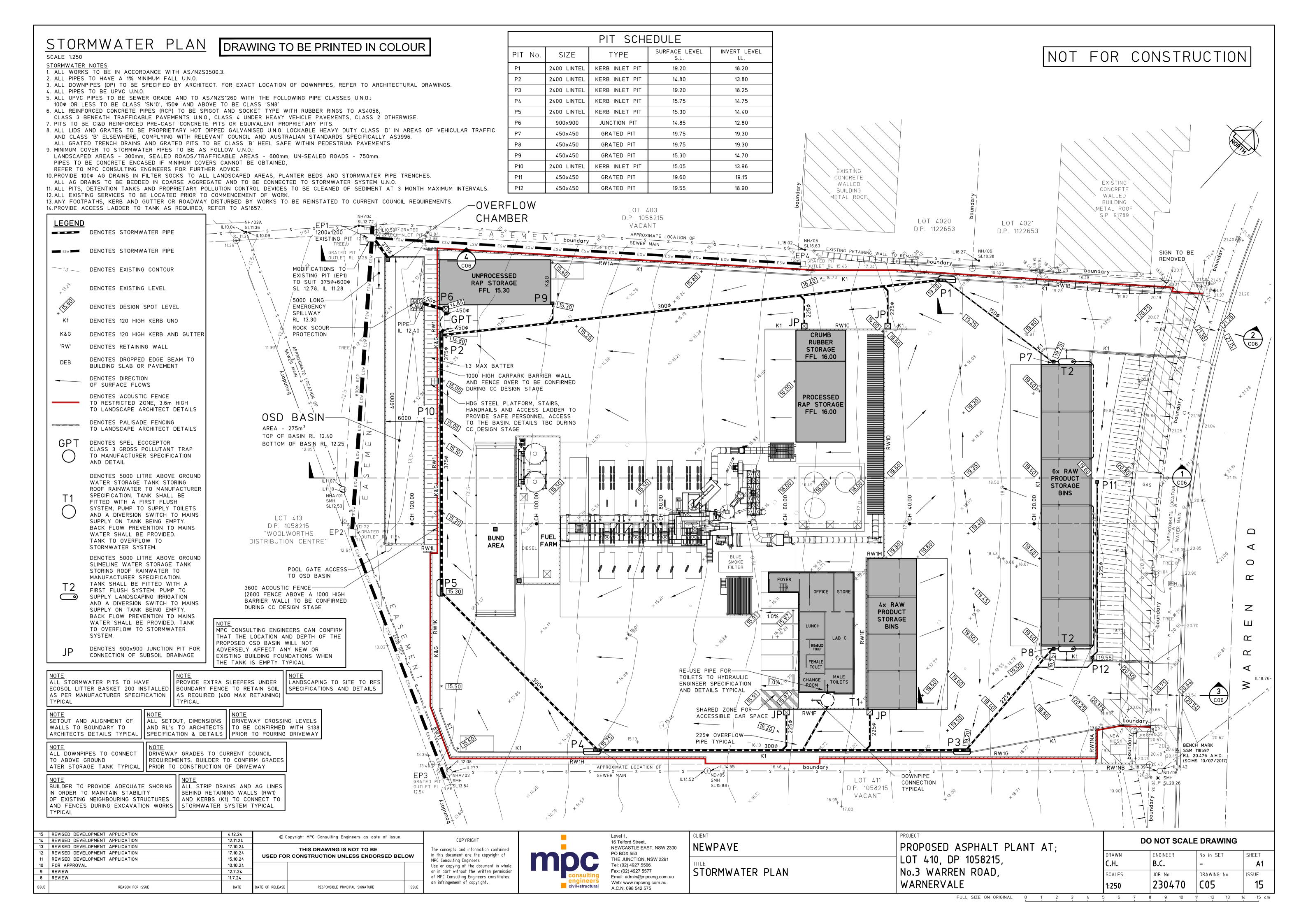


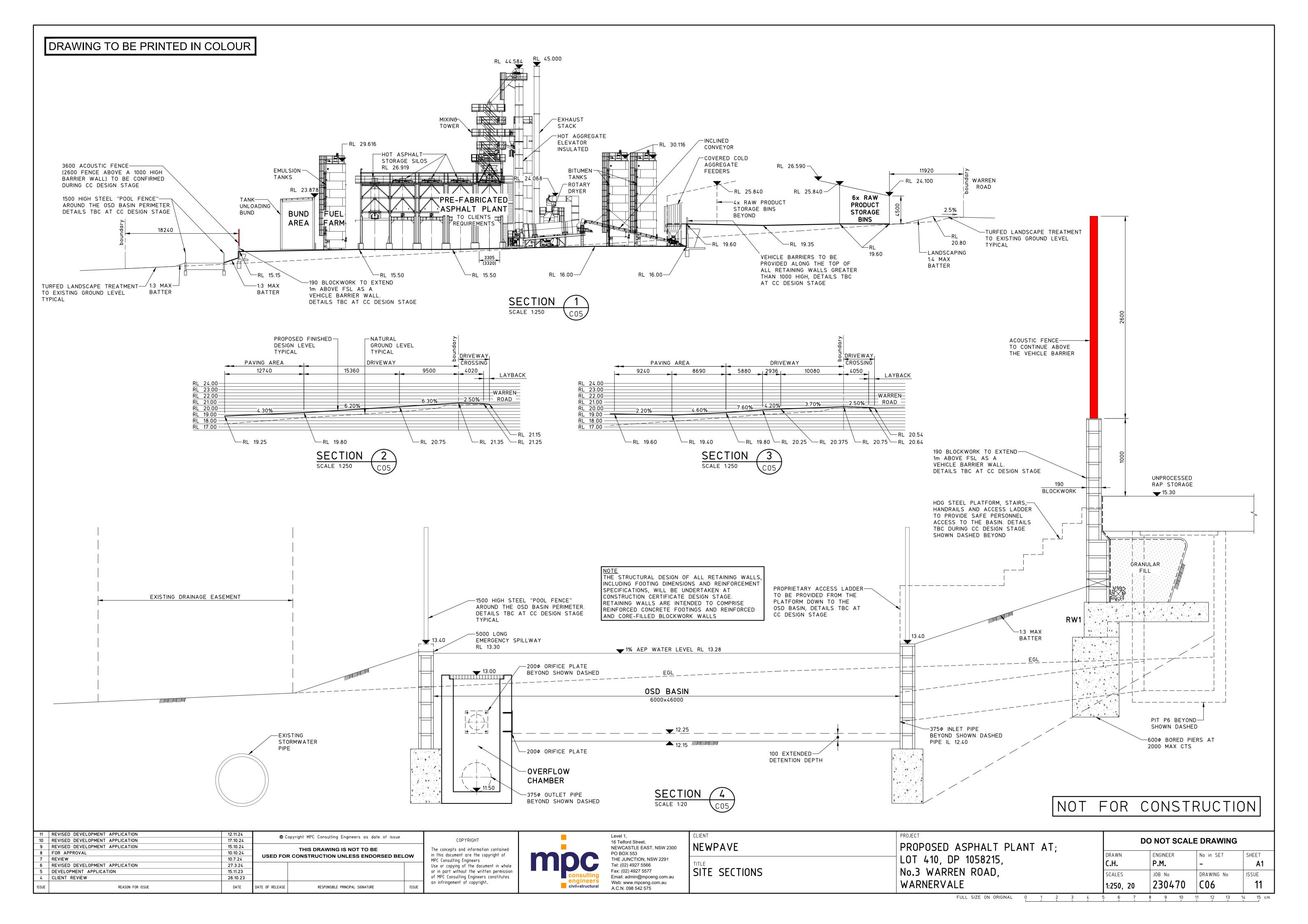
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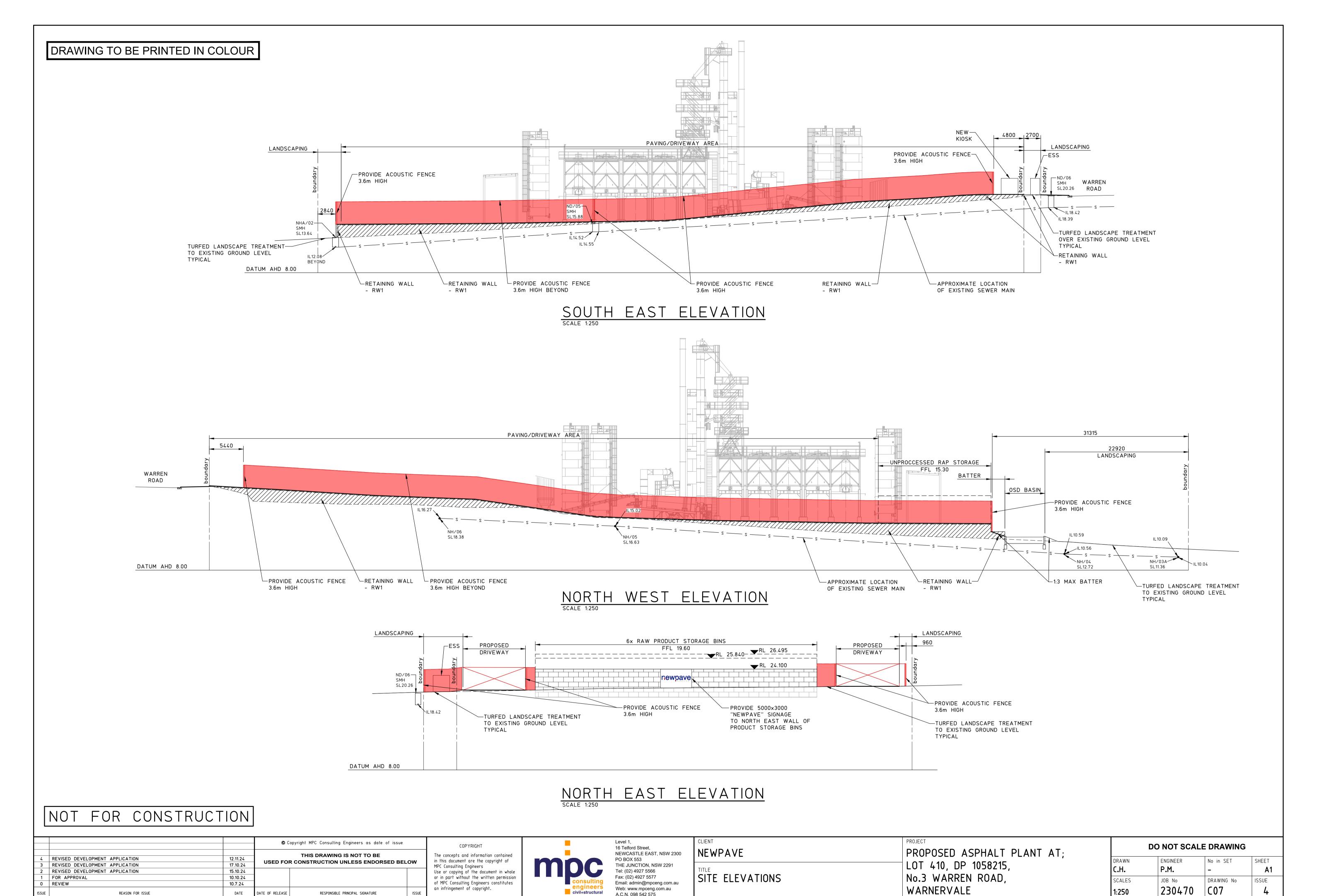
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PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE

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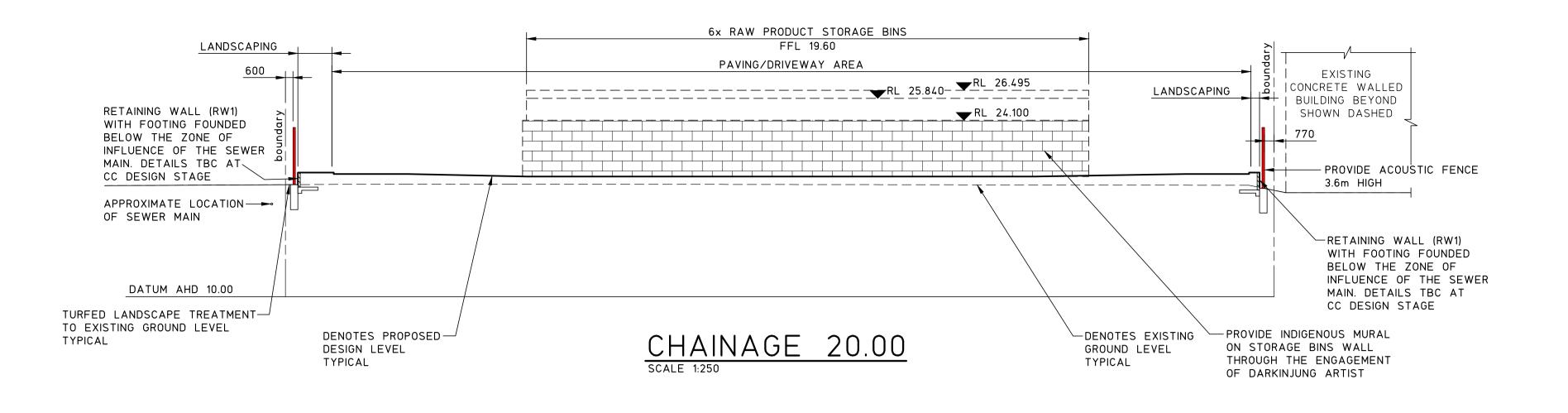
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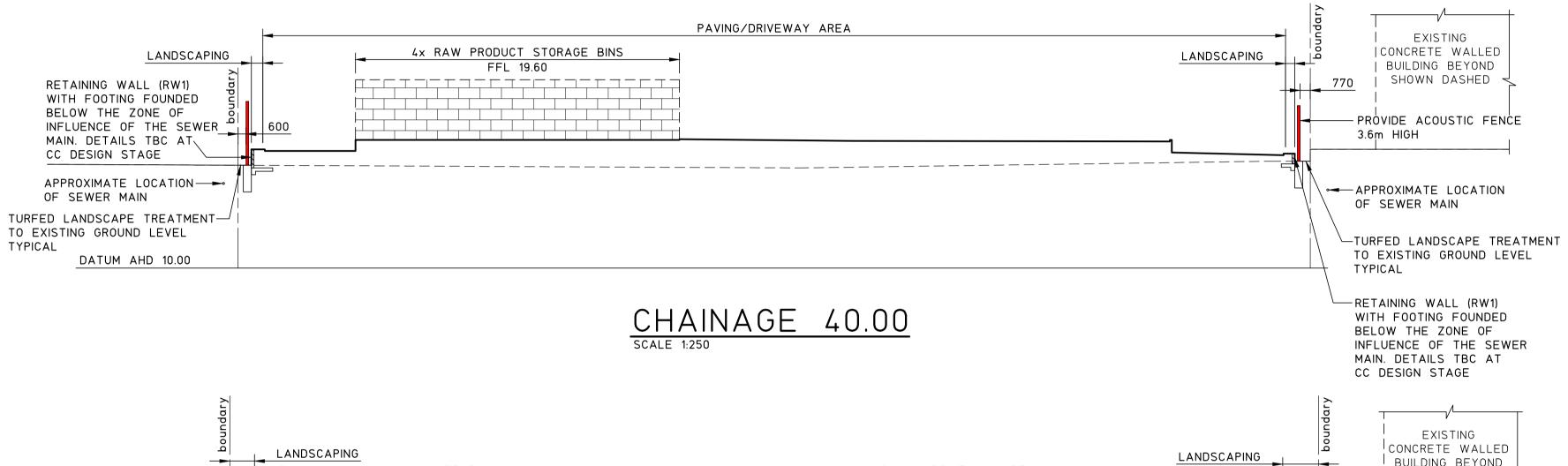
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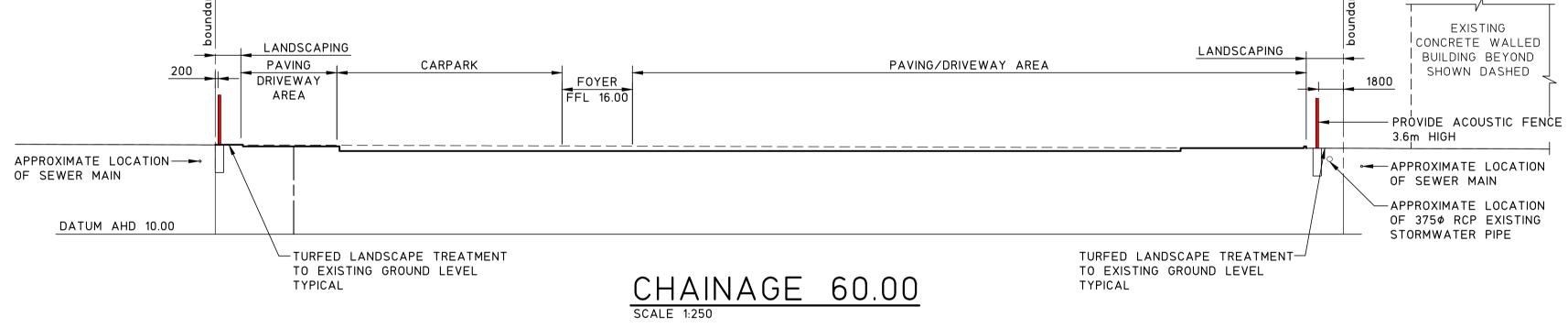
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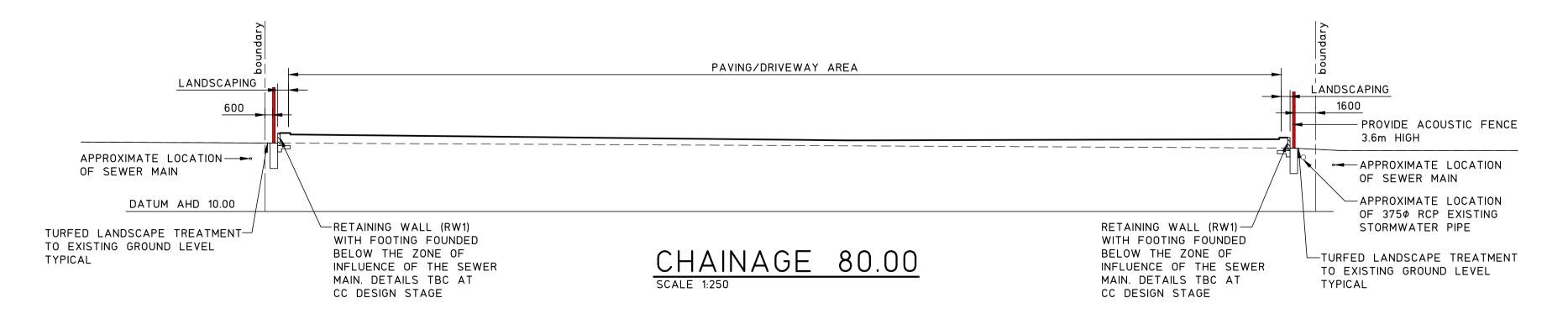
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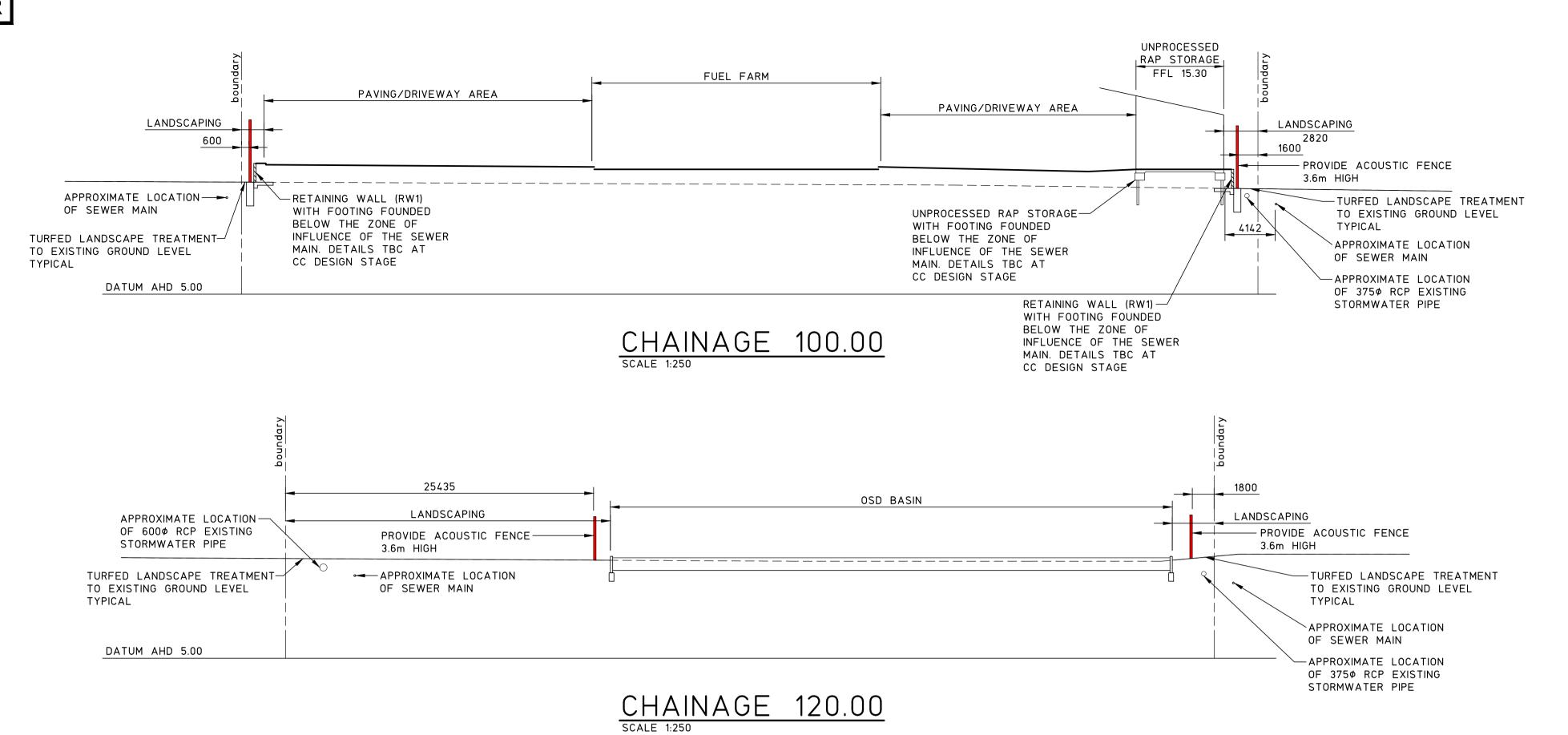
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TITLE
CHAINAGE SECTIONS
SHEET 2

PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE DO NOT SCALE DRAWING

DRAWN
C.H.

SCALES
1:250

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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

RETAINING WALL PLAN NOTE
THE STRUCTURAL DESIGN OF ALL RETAINING WALLS, NOT FOR CONSTRUCTION INCLUDING FOOTING DIMENSIONS AND REINFORCEMENT SCALE 1:250 SPECIFICATIONS, WILL BE UNDERTAKEN AT CONSTRUCTION CERTIFICATE DESIGN STAGE. DENOTES RETAINING WALL RETAINING WALLS ARE INTENDED TO COMPRISE REINFORCED CONCRETE FOOTINGS AND REINFORCED DENOTES ACOUSTIC FENCE AND CORE-FILLED BLOCKWORK WALLS TO RESTRICTED ZONE, 3.6m HIGH TO LANDSCAPE ARCHITECT DETAILS DENOTES PALISADE FENCING TO LANDSCAPE ARCHITECT DETAILS DRAWING TO BE PRINTED IN COLOUR ESW 12.98 ESW RW1A 18.40 18.74 RW1B FFL 15.30 RW1C FFL 16.00 **PROCESSED** RAP STORAGE 6x RAW PRODUCT STORAGE BUND AREA 4x RAW RW1F RW1G R.L 20.476 A.H.D. (SCIMS 10/07/2017) RW1NB 44404 CLIENT © Copyright MPC Consulting Engineers as date of issue COPYRIGHT DO NOT SCALE DRAWING 16 Telford Street, NEWPAVE PROPOSED ASPHALT PLANT AT; REVISED DEVELOPMENT APPLICATION NEWCASTLE EAST, NSW 2300 THIS DRAWING IS NOT TO BE The concepts and information contained REVISED DEVELOPMENT APPLICATION 12.11.24 PO BOX 553 in this document are the copyright of No in SET DRAWN ENGINEER **USED FOR CONSTRUCTION UNLESS ENDORSED BELOW** LOT 410, DP 1058215, REVISED DEVELOPMENT APPLICATION 17.10.24 THE JUNCTION, NSW 2291 MPC Consulting Engineers B.C. **A1** Tel: (02) 4927 5566 REVISED DEVELOPMENT APPLICATION Use or copying of the document in whole or in part without the written permission 15.10.24 RETAINING WALL PLAN No.3 WARREN ROAD, FOR APPROVAL 10.10.24 Fax: (02) 4927 5577 SCALES JOB No DRAWING No ISSUE of MPC Consulting Engineers constitutes Email: admin@mpceng.com.au REVIEW 11.7.24

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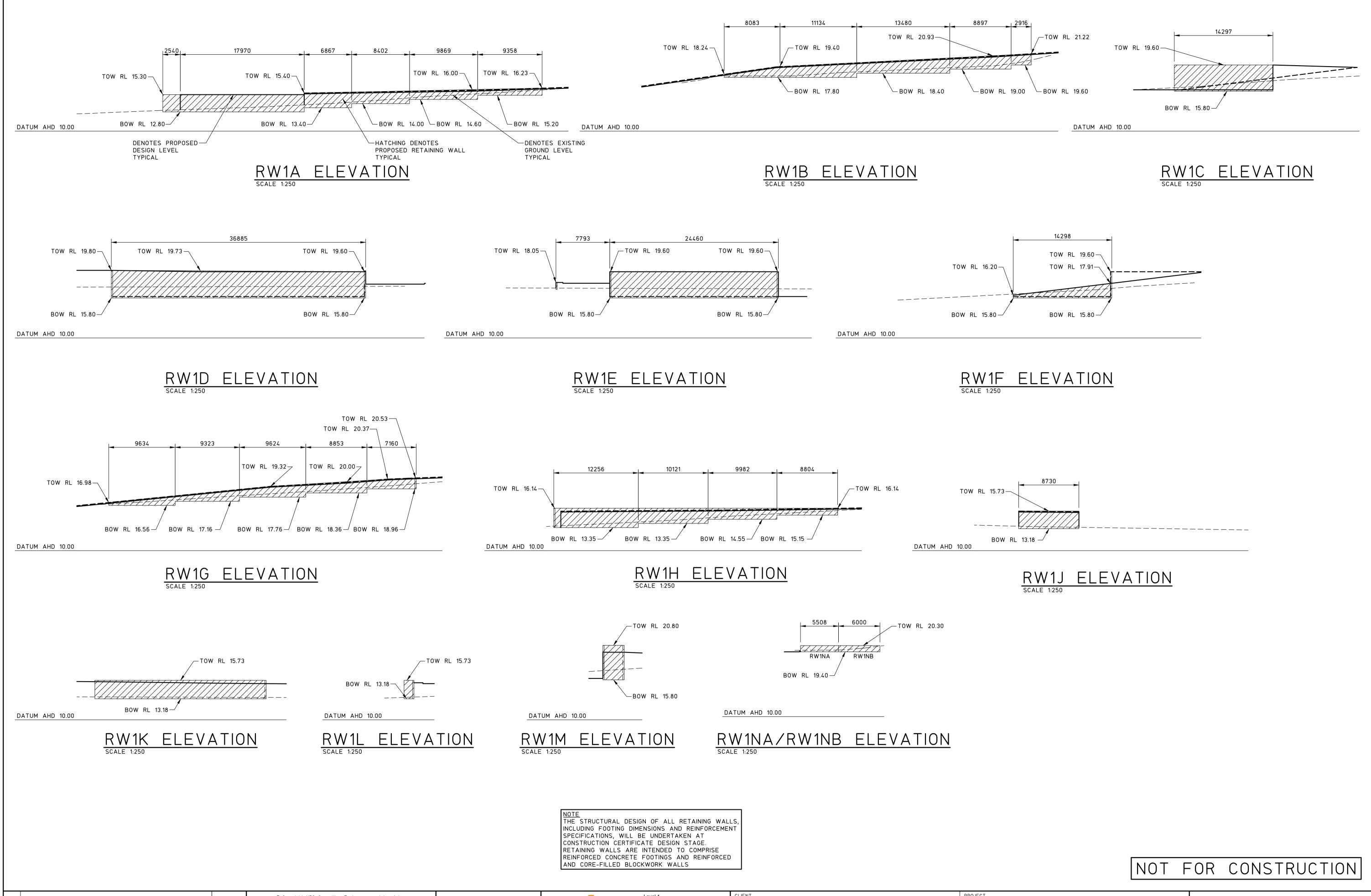
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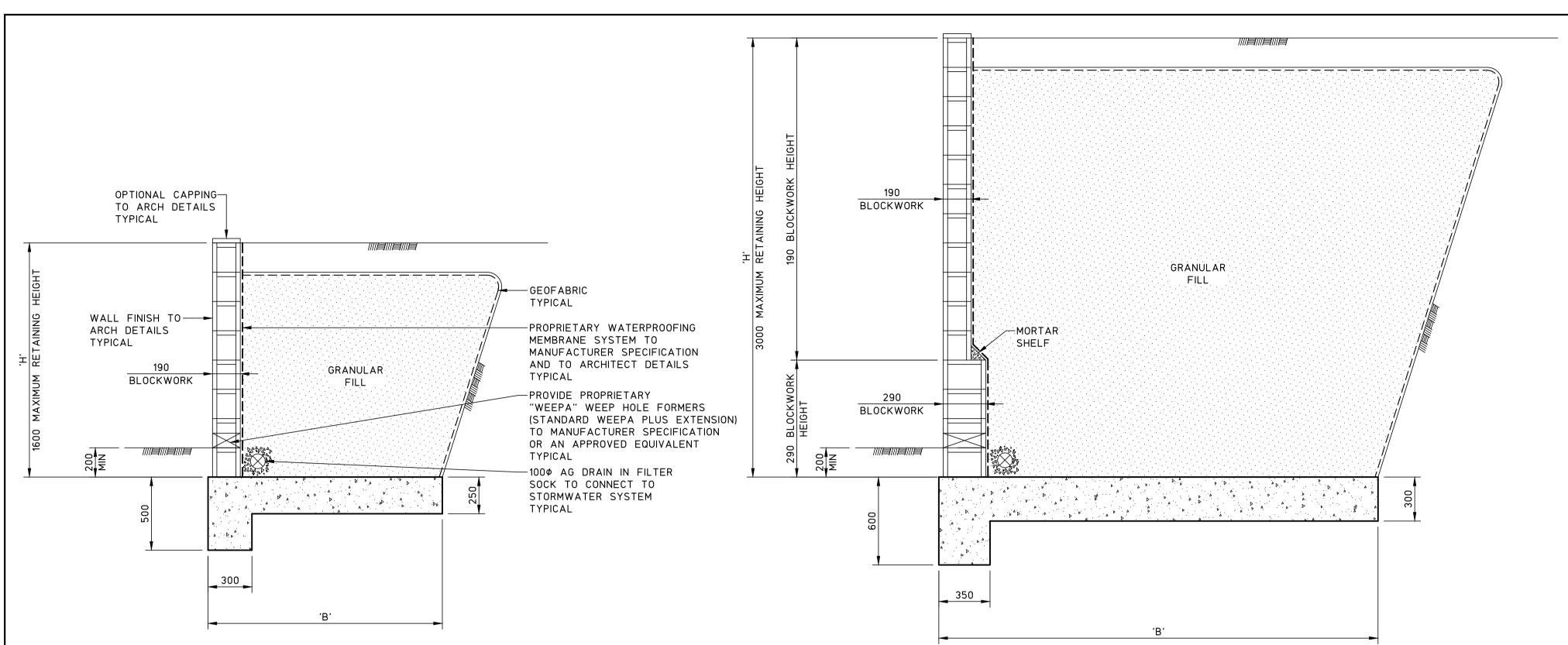
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TYPICAL RETAINING WALL DETAILS SCALE 1:20

RETAININ	IG WALL SCHE	DULE	
WALL HEIGHT 'H'	HEIGHT OF 290 BLOCKS	HEIGHT OF 290 BLOCKS	BASE WIDTH
1000	-	1000	1000
1600	-	1600	1600
2400	800	1600	2400
3000	1400	1600	3000

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RETAINING WALL DETAILS

PROJECT
PROPOSED ASPHALT PLANT AT;
LOT 410, DP 1058215,
No.3 WARREN ROAD,
WARNERVALE

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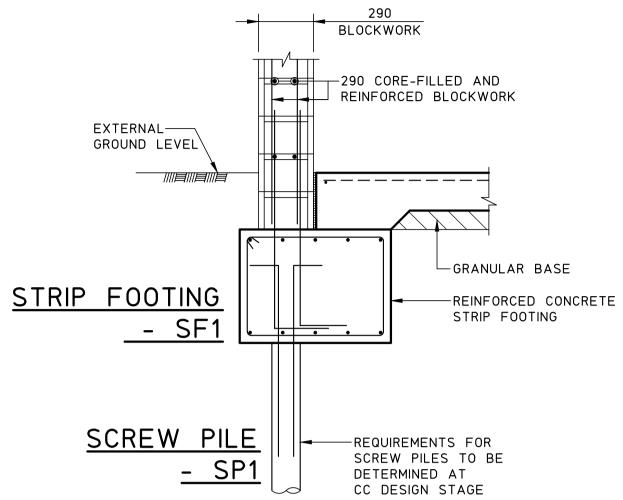
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CONCRETE WALLED BUILDING METAL ROOF Ş.P. 91789 、 LOT 4021 D.P. 1122653 .27 NH/06 SL18.38 18.43 18.43 18.48 19.28 19.82 20.19 18.91 SF1S \triangleleft Z Ш \propto BENCH MARK SSM 118597 R.L 20.476 A.H.D.

RAW PRODUCT STORAGE BINS CONCEPT FOOTING PLAN

SCALE 1:250

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TYPICAL FOOTING DETAIL
SCALE 1:20

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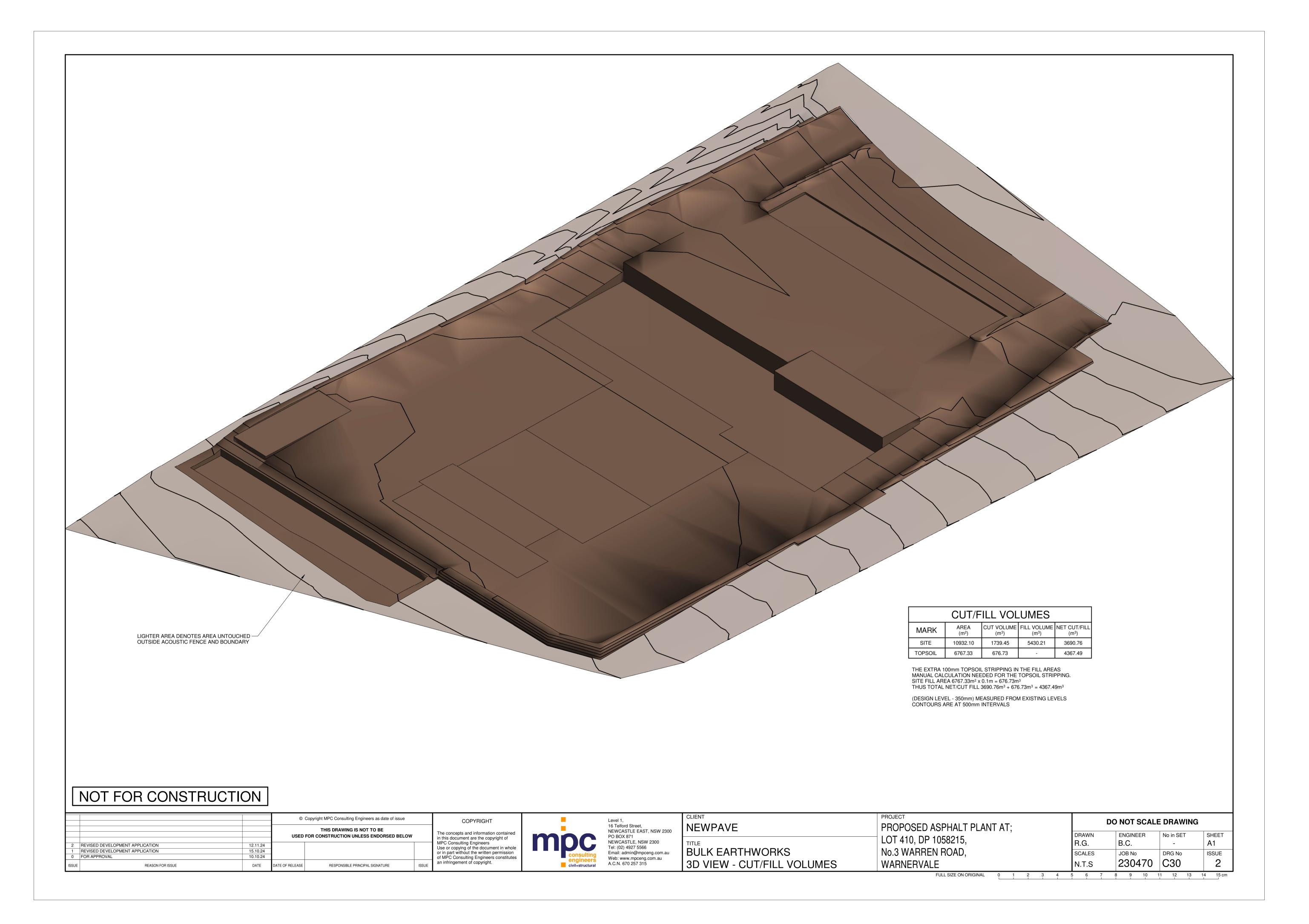
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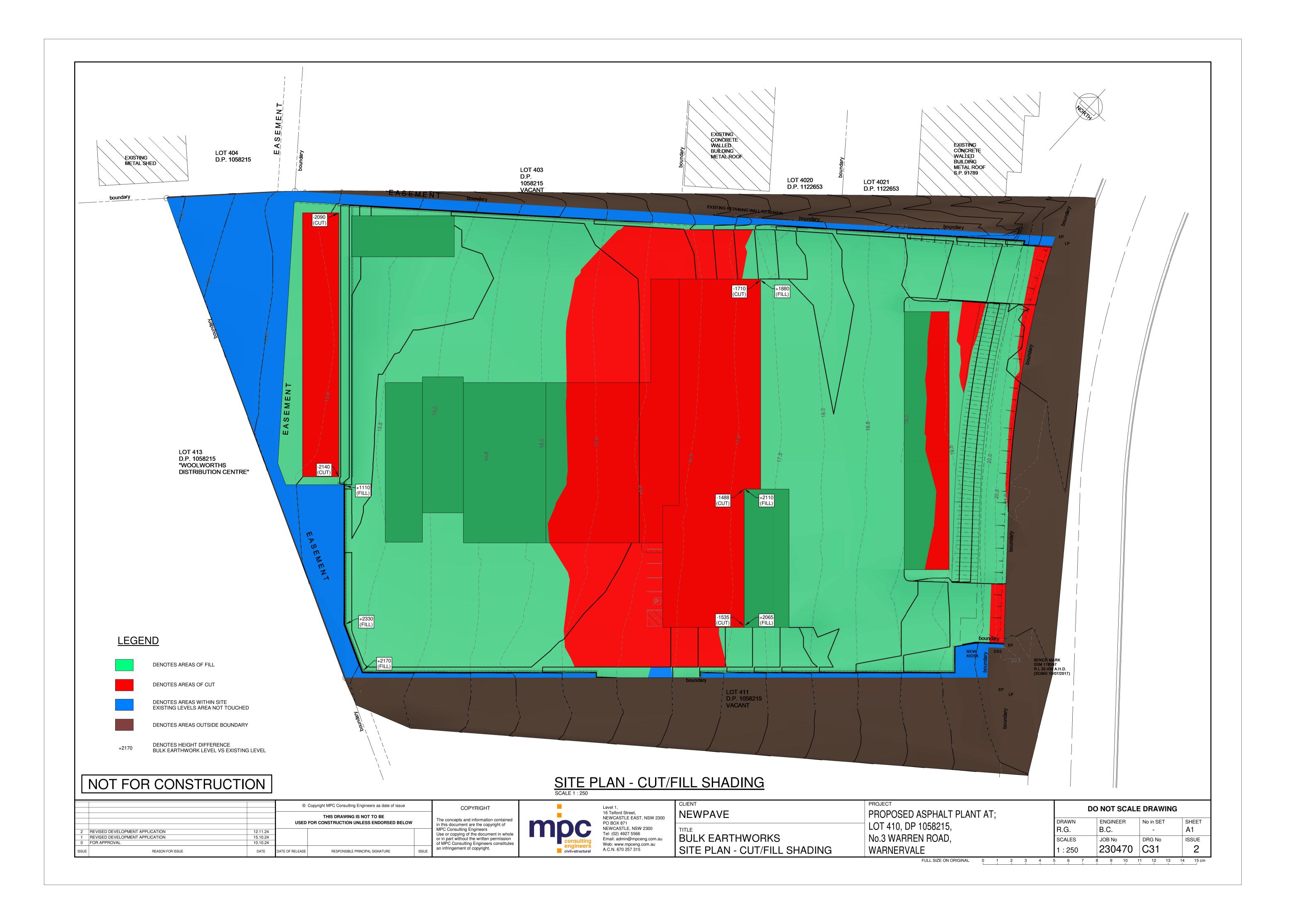
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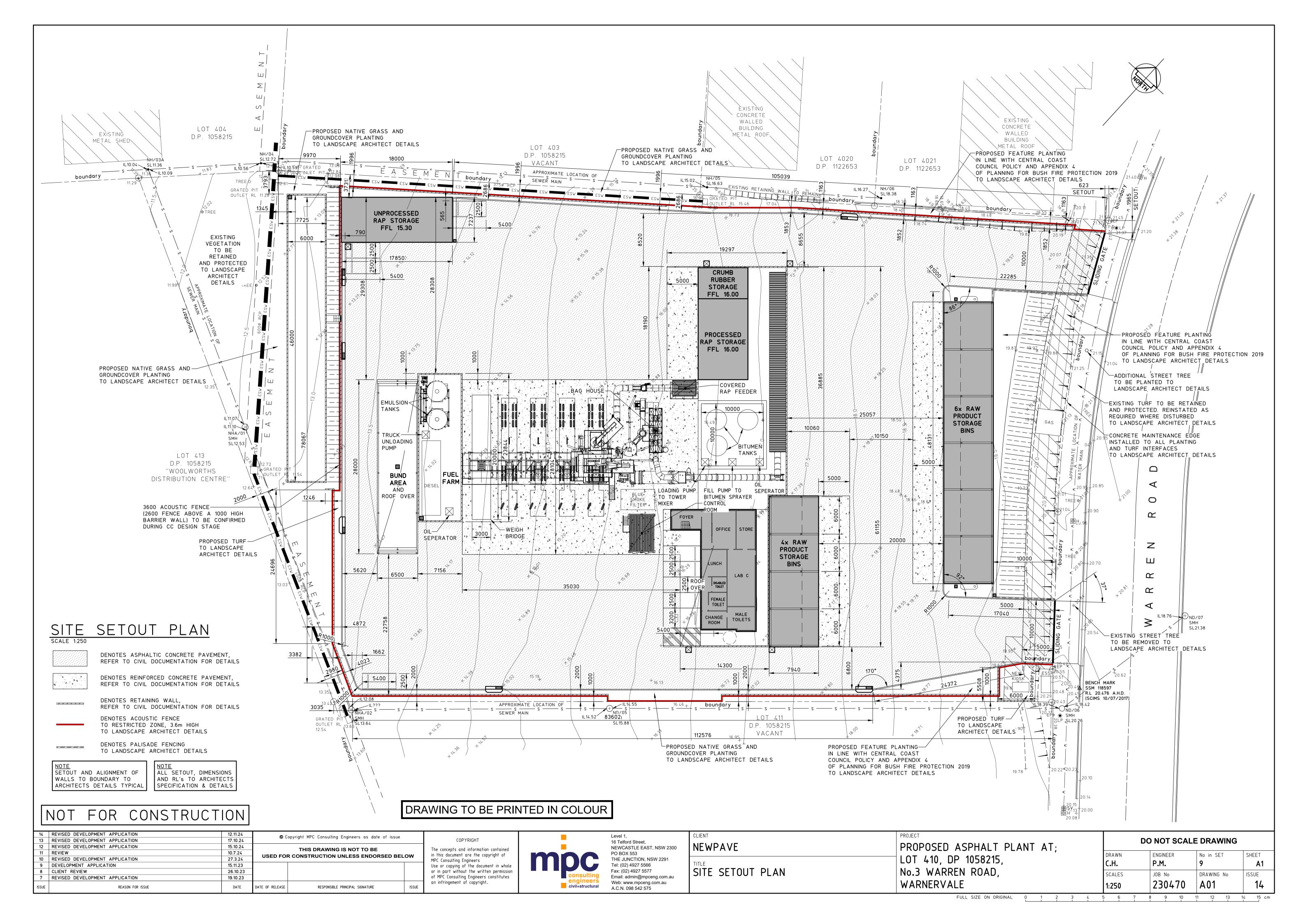
RAW PRODUCT STORAGE BINS CONCEPT FOOTING PLAN AND DETAIL PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE

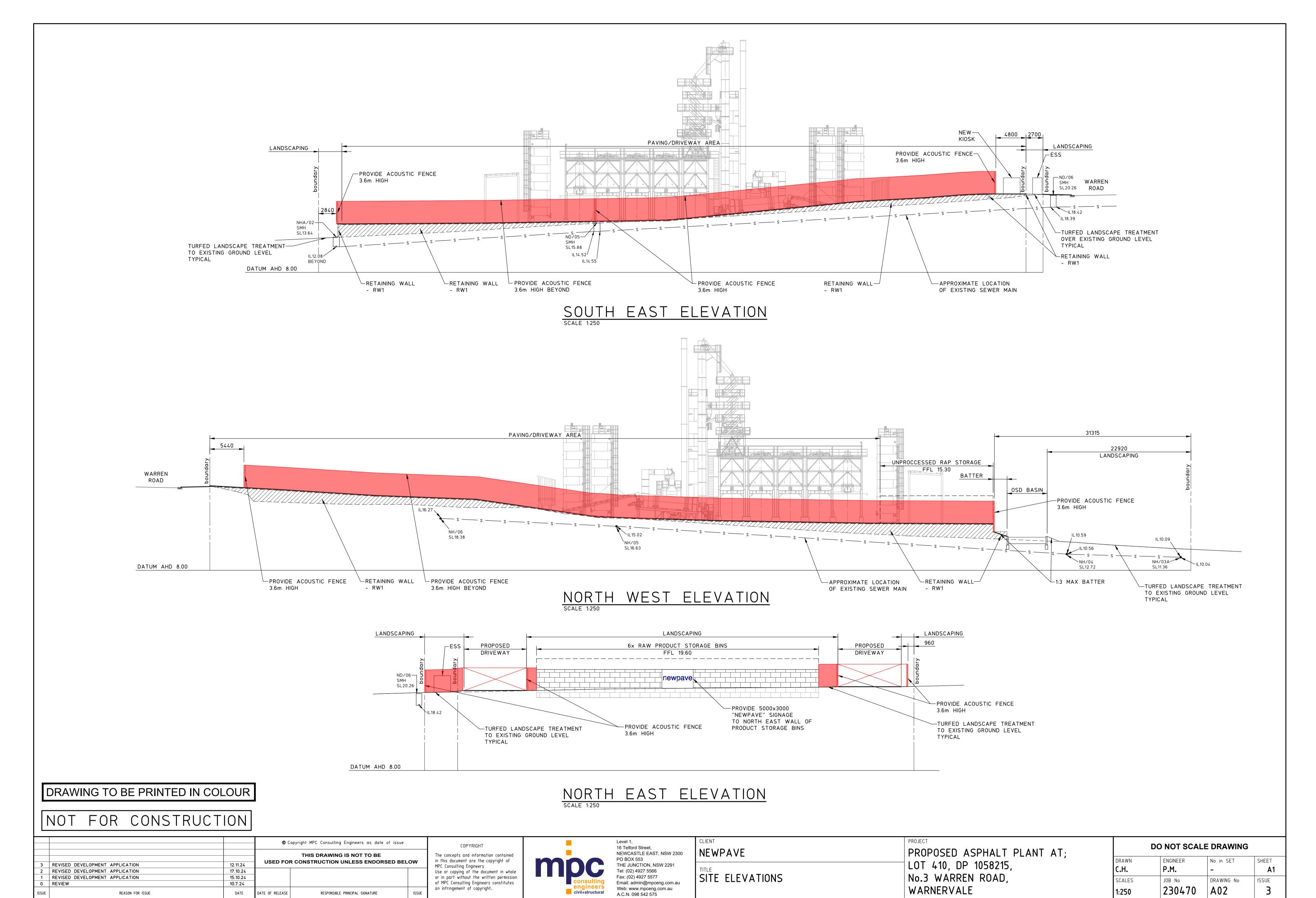
FULL SIZE ON ORIGINAL

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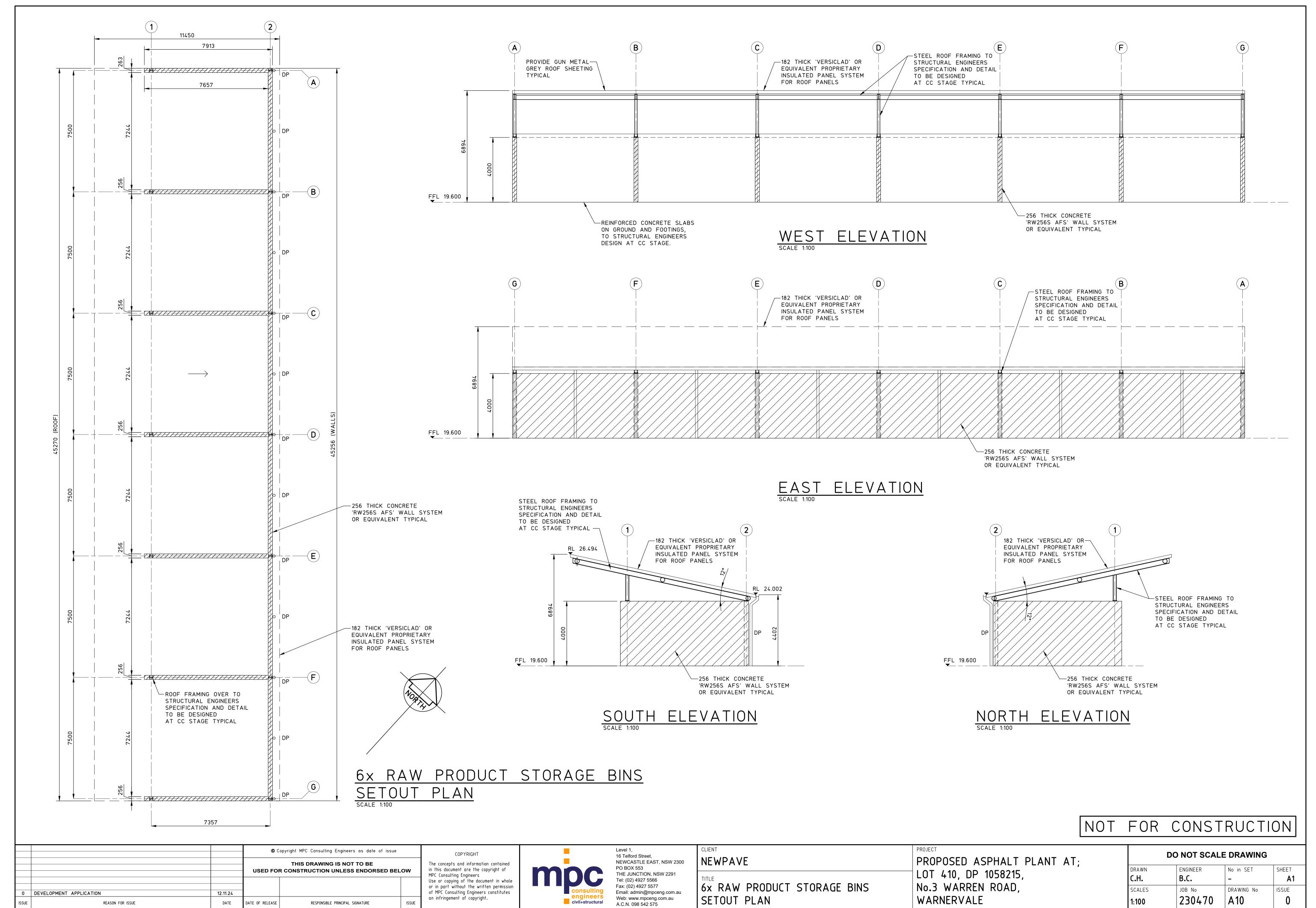




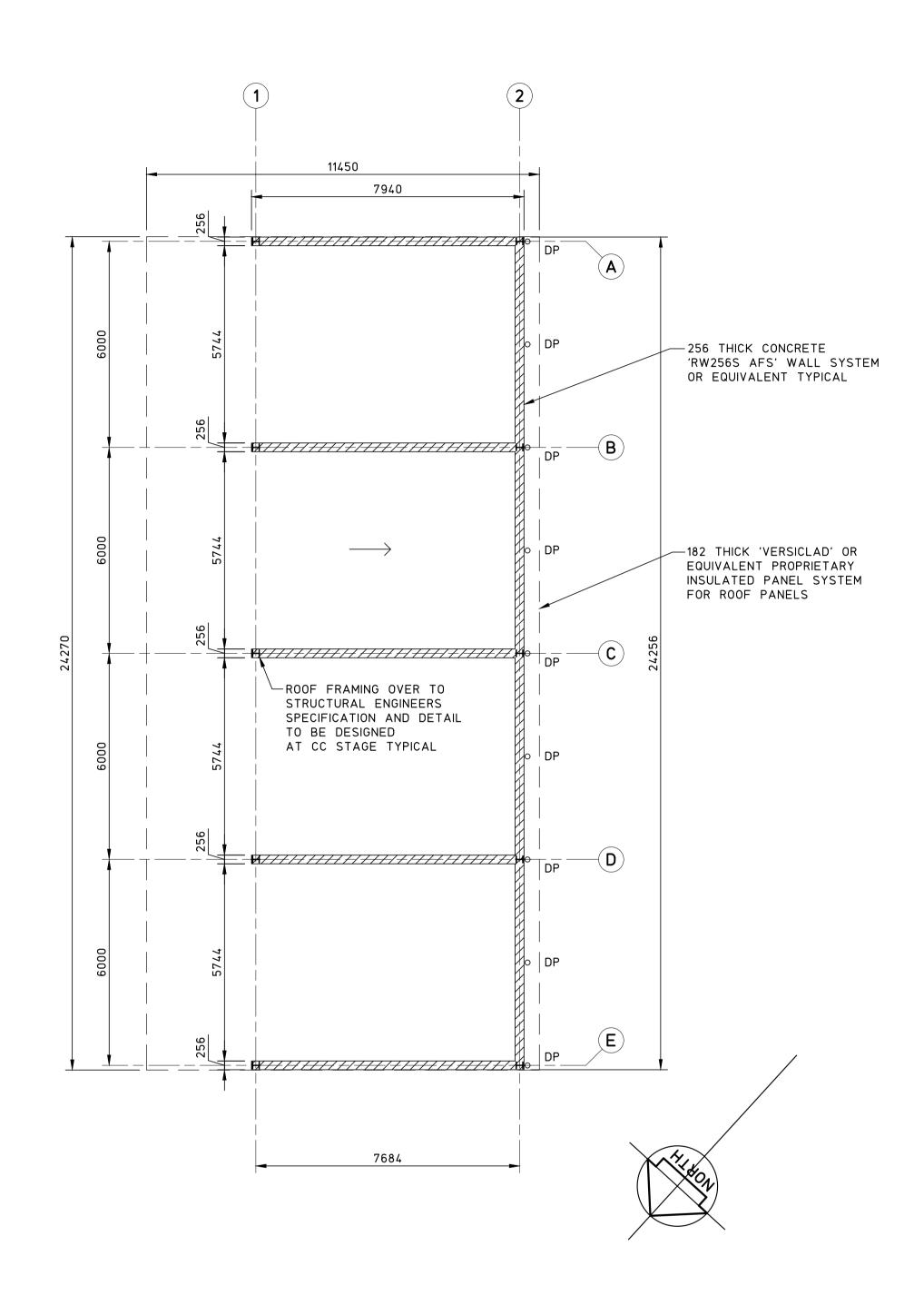




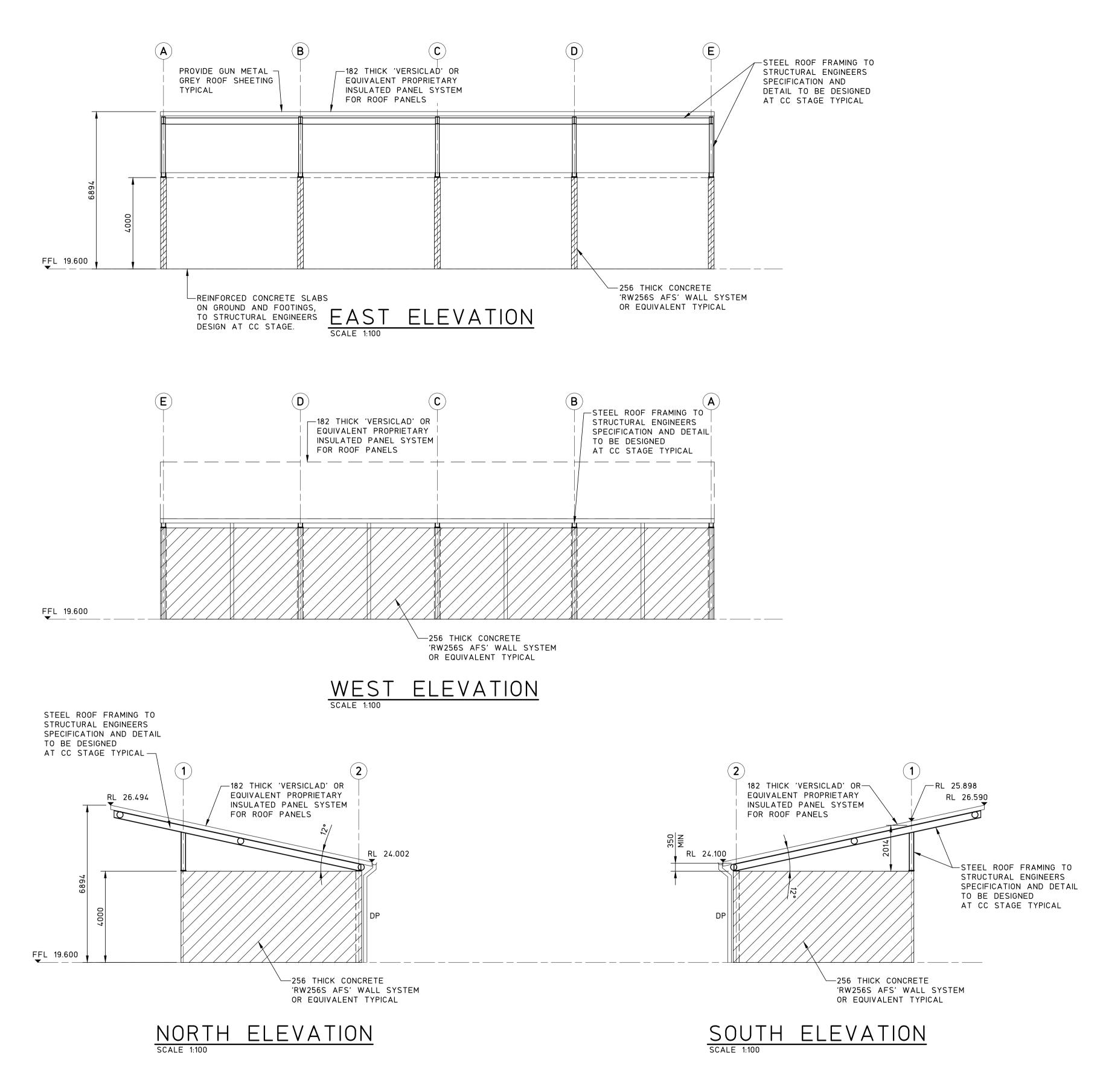
FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14



FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14



4x RAW PRODUCT STORAGE BINS
SETOUT PLAN
SCALE 1:100



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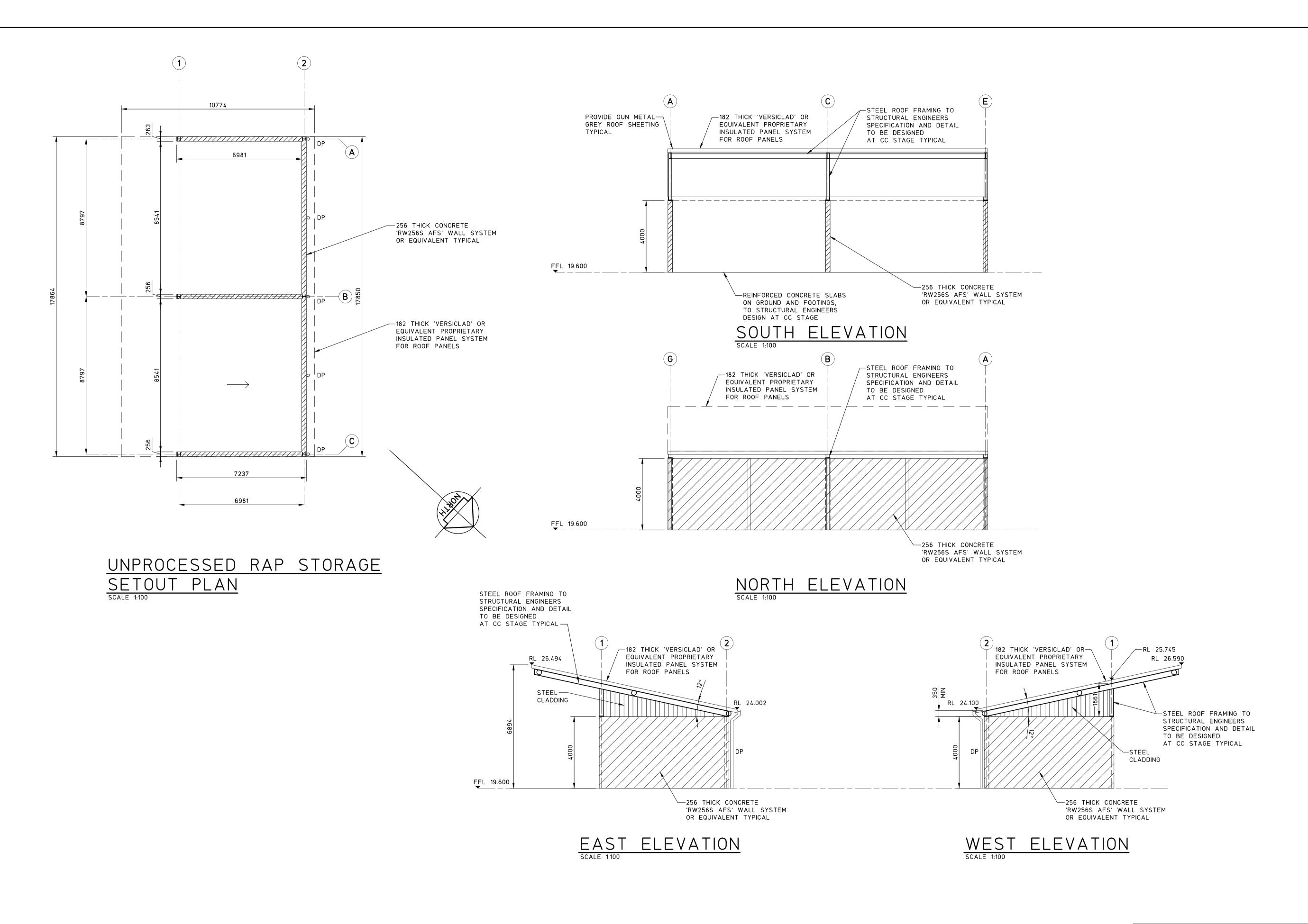


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4x RAW PRODUCT STORAGE BINS SETOUT PLAN

PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE

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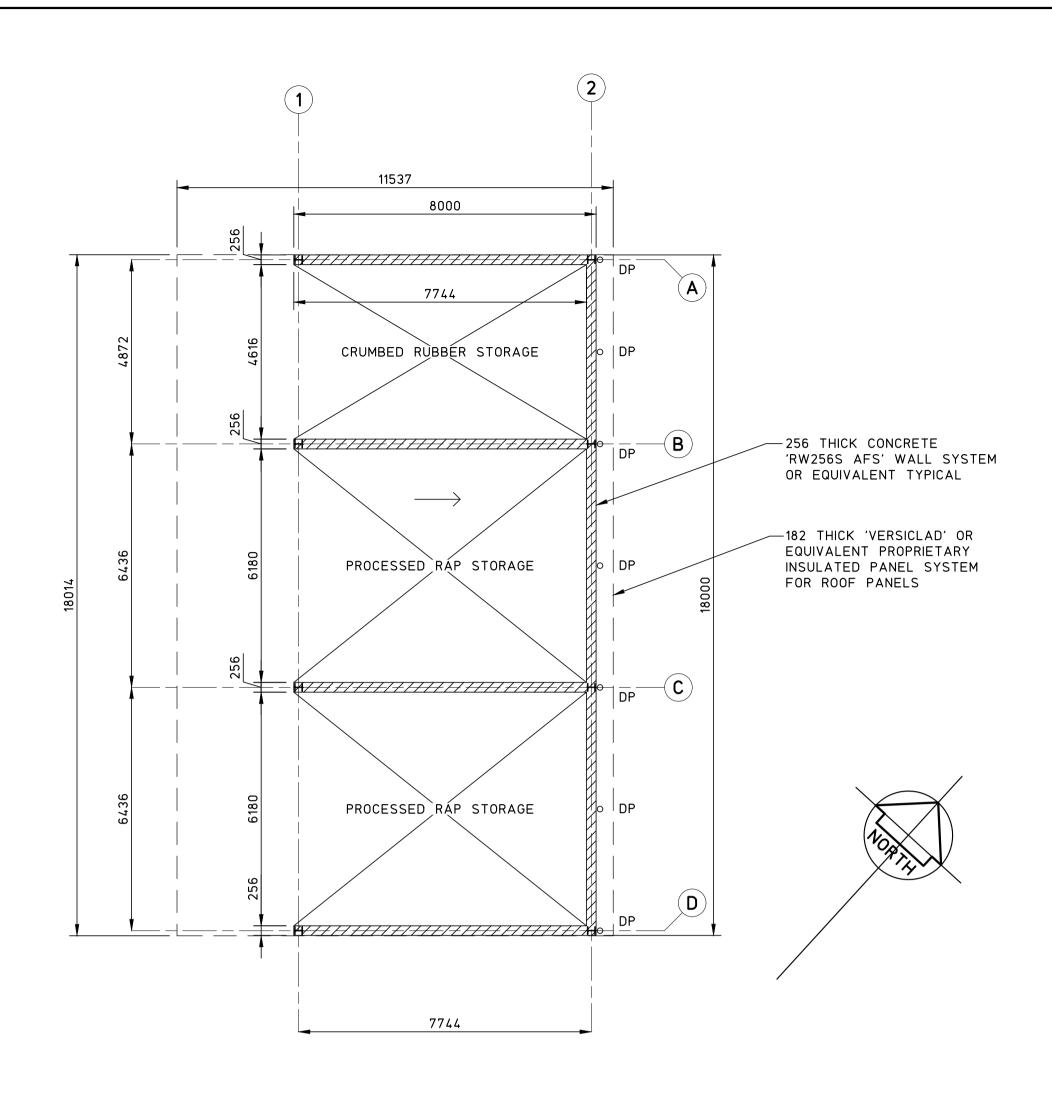


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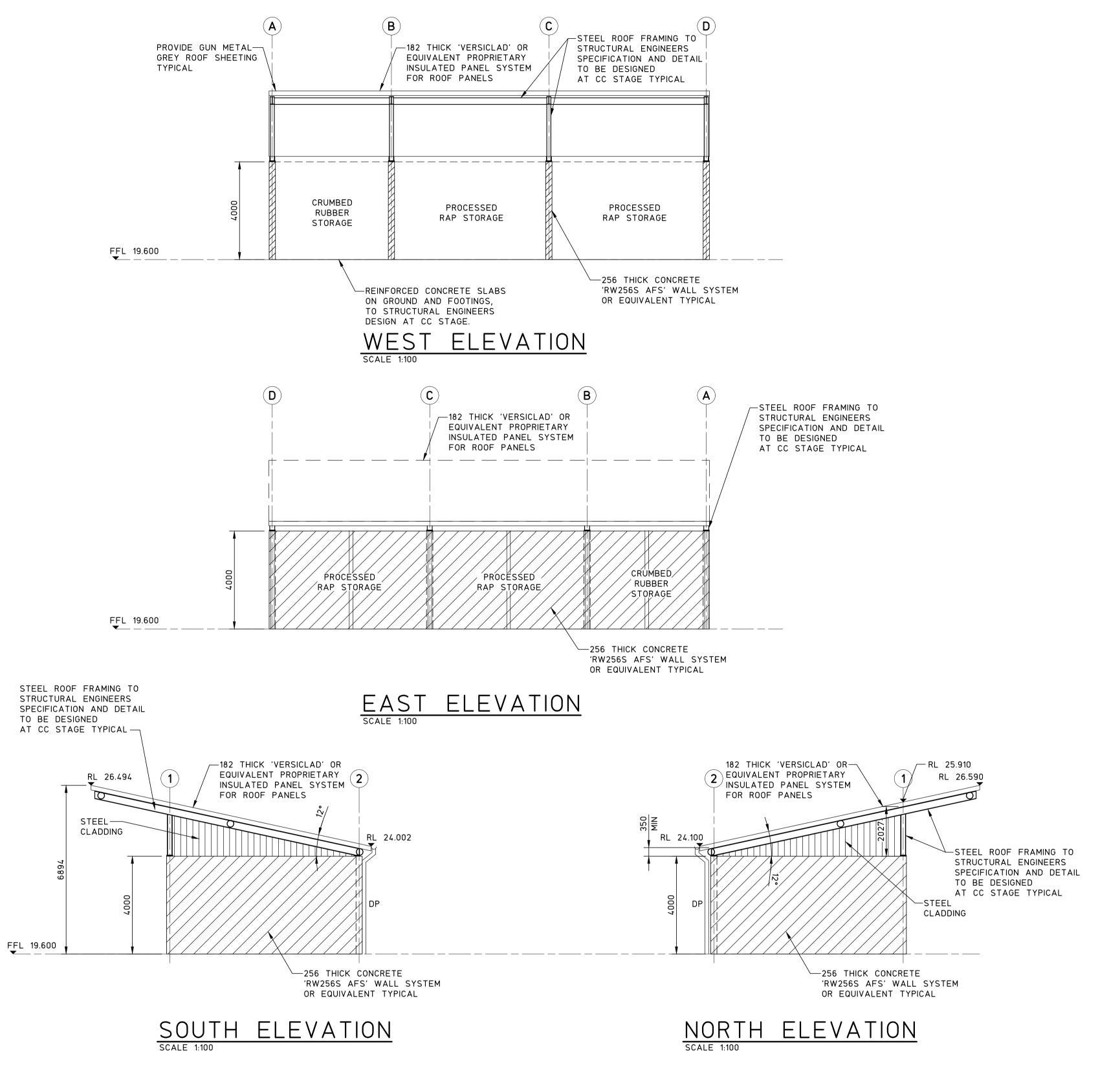
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NEWPAVE
UNPROCESSED RAP STORAGE SETOUT PLAN

PROPOSED ASPHALT PLANT AT; LOT 410, DP 1058215, No.3 WARREN ROAD, WARNERVALE

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PROCESSED RAP AND CRUMBED RUBBER STORAGE SETOUT PLAN



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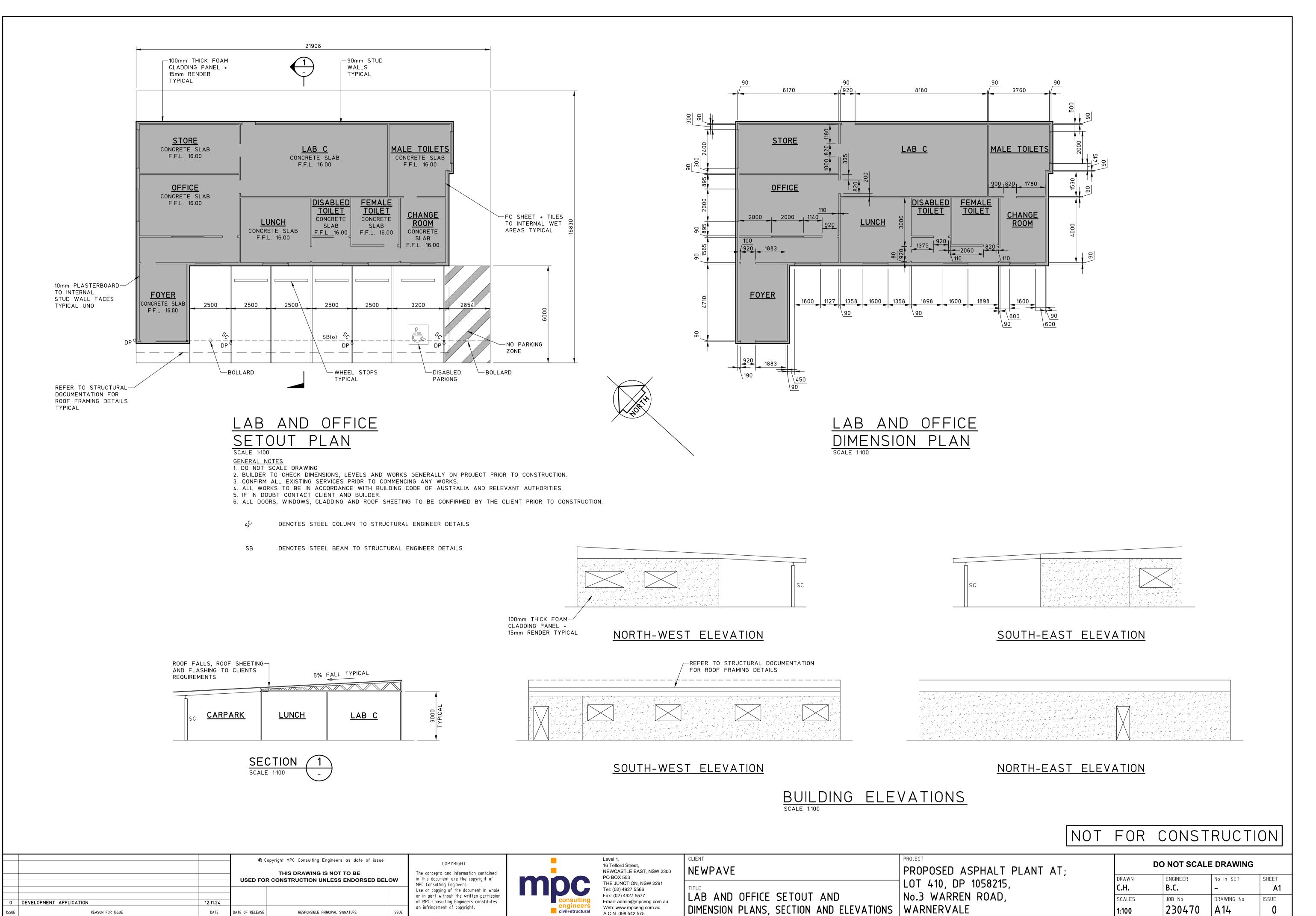


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THE JUNCTION, NSW 2291 Tel: (02) 4927 5566 Fax: (02) 4927 5577 Email: admin@mpceng.com.au Web: www.mpceng.com.au A.C.N. 098 542 575	PROCESSED RAP AND CRUMBED RUBBER STORAGE SETOUT PLAN

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ROJECT	
PROPOSED ASPHALT PLANT AT;	
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No.3 WARREN ROAD,	
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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

