

enstruct
CIVIL ENGINEERING WORKS

CESSNOCK HOSPITAL
REDEVELOPMENT
23 VIEW STREET, CESSNOCK, 2325, NSW



LOCALITY PLAN
SCALE: 1:1000

CIVIL ENGINEERING WORKS DRAWING LIST:

6850-CV-0001	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
6850-CV-0002	NOTES SHEET
6850-CV-1001	EROSION AND SEDIMENT CONTROL PLAN
6850-CV-1101	EROSION AND SEDIMENT CONTROL DETAIL SHEET 1
6850-CV-2001	BULK EARTHWORKS PLAN
6850-CV-3001	SITEWORKS PLAN SHEET 1
6850-CV-3002	SITEWORKS PLAN SHEET 2
6850-CV-3003	SITEWORKS PLAN SHEET 3
6850-CV-3004	SITEWORKS PLAN SHEET 4
6850-CV-3005	SITEWORKS PLAN SHEET 5
6850-CV-3101	SITEWORKS DETAIL SHEET 1
6850-CV-3102	SITEWORKS DETAIL SHEET 2
6850-CV-3201	RETAINING WALL SECTION SHEET 1
6850-CV-4001	STORMWATER DRAINAGE PLAN SHEET 1
6850-CV-4002	STORMWATER DRAINAGE PLAN SHEET 2
6850-CV-4003	STORMWATER DRAINAGE PLAN SHEET 3
6850-CV-4004	STORMWATER DRAINAGE PLAN SHEET 4
6850-CV-4005	STORMWATER DRAINAGE PLAN SHEET 5
6850-CV-4101	STORMWATER DRAINAGE DETAIL SHEET 1
6850-CV-4102	STORMWATER DRAINAGE DETAIL SHEET 2
6850-CV-4103	STORMWATER DRAINAGE DETAIL SHEET 3
6850-CV-4104	STORMWATER DRAINAGE DETAIL SHEET 4
6850-CV-5001	PAVEMENT PLAN SHEET 1
6850-CV-5002	PAVEMENT PLAN SHEET 2
6850-CV-5003	PAVEMENT PLAN SHEET 3
6850-CV-5004	PAVEMENT PLAN SHEET 4
6850-CV-5005	PAVEMENT PLAN SHEET 5
6850-CV-6001	SIGNAGE AND LINEMARKING PLAN SHEET 1
6850-CV-6002	SIGNAGE AND LINEMARKING PLAN SHEET 2

Date generated: 29/07/2024 9:54:47 AM | U:\TRANSITION\ENSTRUCT\CAD\1-6800\6850\CIVIL\DRAWINGS\6850-CV-0001

TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	29/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	ASE	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Mills Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au



project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

COVER SHEET, DRAWING
LIST AND LOCALITY PLAN

status

FOR INFORMATION ONLY

scale at A1
AS SHOWN

drawn
ASE

checked
RGU

approved

project no.
6850

sheet
6850-CV-0001

rev.
05

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on enstruct drawing's have been based from information received from:
de Witt Consulting
13635-DET-08.06.23
enstruct makes no guarantees that the boundary or easement information shown is correct. enstruct will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

DBYD SERVICES NOTE

"Public Service Utility information shown on plan has been compiled from information received from Dial Before You Dig inquiry, reference Number **32907973**, which was obtained on 13/10/22. Unless specifically shown otherwise, this location and depth of services shown on this plan have not been verified.

The location of services shown on this drawing have been plotted as accurately as possible from diagrams provided by service authorities and should be confirmed by site inspection."

GENERAL NOTES

- Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer
- Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
- Make smooth connection with all existing works.
- Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint.
- All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
- All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
- For all temporary batters refer to geotechnical recommendations.
- The approval of a substitution shall be sought from the superintendent but is not an authorisation of a cost variation. The superintendent must approve any cost variation before any work starts

REFERENCE DRAWINGS

- These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev	Date

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : P.M. 18647 RL 86.102
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : de Witt Consulting
Setout Points : CONTACT THE SURVEYOR

enstruct does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES - WARNING

The locations of underground services shown on enstruct drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.

enstruct does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to: State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.

enstruct plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

SAFETY IN DESIGN

Contractor to refer to the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicable possible from existing structure(s).

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicable possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by (insert report details) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (insert report details) for details.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS

Contractor to be aware site works occur in close proximity to footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.

VEHICLE MOVEMENT

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshal to supervise vehicle movements where necessary.

CIVIL SAFETY IN DESIGN

enstruct (NSW) Pty Ltd operates under Safe Work Australia's code of Conduct for the Safe Design of Structures.

These drawings shall be read in conjunction with the enstruct Civil risk and Solutions Register.

Under the Code of Conduct it is the Client's responsibility to provide a copy of the Civil Risk and Solutions Register to the Principal Contractor.

It is the Principal Contractor's responsibility to review the hazards and risks identified during the design process to ensure a safe workplace is maintained for the construction, maintenance and eventual demolition of the civil infrastructure.

EROSION AND SEDIMENT CONTROL NOTES

- All work shall be generally carried out in accordance with
(A) Local authority requirements,
(B) EPA - Pollution control manual for urban stormwater,
(C) LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book").
- Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and adapted to meet the varying situations as work on site progresses.
- Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- Minimise the area of site being disturbed at any one time.
- Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
- Control water from upstream of the site such that it does not enter the disturbed site.
- All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
- All vehicles leaving the site shall be cleaned and inspected before leaving.
- Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

- Prior to commencement of excavation the following soil management devices must be installed.
- Construct silt fences below the site and across all potential runoff sites.
- Construct temporary construction entry/exit and divert runoff to suitable control systems.
- Construct measures to divert upstream clean flows into existing stormwater system.
- Construct sedimentation traps/basin (if any) including outlet control and overflow; otherwise allocate a place for the runoff and temporary sediment storage.
- Construct turf lined swales.
- Provide sandbag sediment traps upstream of existing pits.
- Construct geotextile filter pit surround around all existing pits and proposed pits as they are constructed.
- On completion of pavement provide sand bag kerb inlet sediment traps around pits.
- Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system. This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

SITeworks NOTES

- All basecourse material to comply with TfNSW specification No 3051 and compacted to minimum 98% modified dry density in accordance with AS 1289 5.2.1.
- All trench backfill material shall be compacted to the same density as the adjacent material.
- All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1

STORMwater DRAINAGE NOTES

- Stormwater Design Criteria :
(A) Average exceedance probability - 1% AEP for roof drainage to first external pit
5% AEP for paved and landscaped areas
(B) Rainfall intensities - Time of concentration: 5 minutes
1% AEP = 250 mm/hr
5% AEP = 179 mm/hr
(C) Rainfall losses - Impervious areas: IL= 1.0 mm , CL= 0 mm/hr
Pervious areas: IL= 37mm , CL=3.3 mm/hr
- Pipes 300 dia and larger to be reinforced concrete Class (22) approved spigot and socket with rubber ring joints U.N.O. Pipes in public roadways (including public domain) to be class 4 reinforced concrete.
- Pipes up to 300 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer
- Equivalent strength VCP or FRP pipes may be used subject to approval.
- Pits in roadways (including public domain) are to be insitu to council details.
- Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
- Where subsoil drains pass under floor slabs and vehicular pavements, unsloited uPVC sewer grade pipe is to be used.
- Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.
- Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
- Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
- All downpipe connections are to be 150mm DIA or the same size as the downpipe (whichever is larger) laid at 1% minimum fall connection to the nearest pit. Minimum cover 450mm in landscaped areas.
- Subsoil drains to be slotted flexible uPVC U.N.O.
- Adopt invert levels for pipe installation (grades shown are only nominal).

STORMwater PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size. Refer pit type details, shown on detail sheets
Final internal pit dimensions are to comply with AS3500

Pit Type	Pit Size	Lid Type	Water Quality	Number
Type A: Surface inlet pit	450x 450	Class D, galvanised mild steel grate hinged to frame U.N.O.		
	600x 600		OceanGuard Pit Insert	A4,B4,B5,B12,C2, E17,F8
	600x 900			
	900x 900		OceanGuard Pit Insert	B1,B2,B3,B6,B7,B8, B9,B10,B11,B13,B14 B15,C1,E11,E15,E16, E6,E7,E8,E9,E10, E12,E13,E14,F1,F2, F3,F4,F5,F9,F10,F11
Type B: Junction pit	450x450	Class D, Cast iron cover with concrete infill U.N.O.		
	600x 600			
	600x 900			
	900x 900			
Type C: Kerb inlet pit	900x 900	900 Inlet		A1,E2 E3 F6,F7
Existing pit to be reconstructed and aligned				A0,A2,A3,A5
Existing pit to remain				

CONCRETE NOTES

EXPOSURE CLASSIFICATION : External :B1

CONCRETE

Place concrete of the following characteristic compressive strength f_c as defined in AS 1379.

Location	AS 1379 f _c MPa at 28 days	Specified Slump	Nominal Agg. Size
Kerbs	S20	80	20
Pavements	S32	80	20
Retaining wall footing	S40	80	20

- Use Type 'GP' cement, unless otherwise specified.
- All concrete shall be subject to project assessment and testing to AS 1379.
- Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.
- For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.
- The location of all construction joints shall be submitted to Engineer for review.
- No holes or chases shall be made in the slab without the approval of the Engineer.
- Slurry used to lubricate concrete pump lines is not to be used in any concrete members.
- All building slabs cast on ground require sand blinding with a Concrete Underlay. Refer to structural drawings.

FORMWORK

- The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of the contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

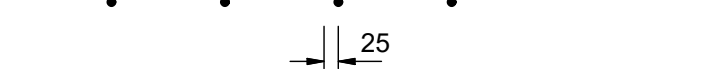
CONCRETE FINISHING NOTES

- All exposed concrete pavements are to be broomed finished.
- All edges of the concrete pavement including keyed and dowelled joints are to be finished with an edging tool.
- Concrete pavements with grades greater than 10 % shall be heavily broomed finished.
- Carborundum to be added to all stair treads and ramped crossings U.N.O.

CONCRETE REINFORCEMENT NOTES

- Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below. On the drawings this is followed by a numeral which indicates the size in millimetres of the reinforcement.
N. Hot rolled ribbed bar grade D500N
R. Plain round bar grade R250N
SL. Square mesh grade 500L
RL. Rectangular mesh grade 500L.
- Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise noted on drawings.
Footings - 50 top, 50 bottom, 50 sides.
Walls - 30 generally
- 30 when cast in forms but later exposed to weather or ground
- when cast directly in contact with ground.
- Cover to reinforcement ends to be 50 mm u.n.o.
- Provide N12-450 support bars to top reinforcement as required, Lap 500 U.N.O.
- Maintain cover to all pipes, conduits, reglets, drip grooves etc.
- All cogs to be standard cogs unless noted otherwise.
- Fabric end and side laps are to be placed strictly in accordance with the manufacturers requirements to achieve a full tensile lap. Fabric shall be laid so that there is a maximum of 3 layers at any location.

FABRIC LAPS



- Laps in reinforcement shall be made only where shown on the drawings unless otherwise approved. Lap lengths as per table below.

KERBING NOTES

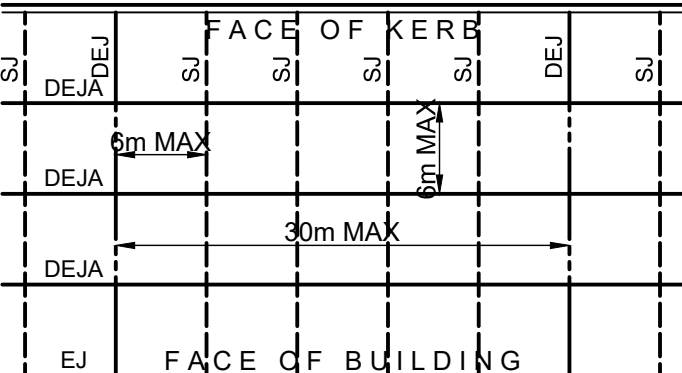
Includes all kerbs, gutters, dish drains, crossings and edges.

- All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
- Expansion joints (EJ) to be formed from 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 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
- Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
- Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
- In the replacement of kerbs - Existing road pavement is to be sawcut 900mm from: Lip of gutter, invert of kerb, or edge of dish drain. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses.
- Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole.
- Existing kerbs are to be completely removed where new kerbs are shown.

JOINTING NOTES

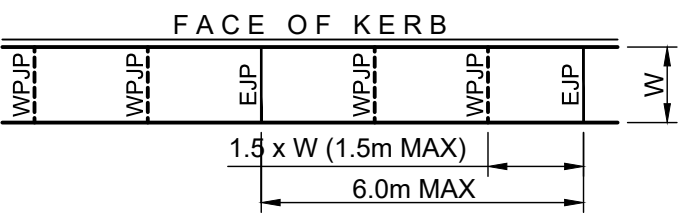
Vehicular Pavement Jointing

- All vehicular pavements to be jointed as shown on drawings.
- Keyed construction joints should generally be located at a maximum of 6m centres.
- Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
- Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
- The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required.
- Vehicular pavement jointing as follows.



Pedestrian Footpath Jointing

- Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
- Weakened plane joints are to be located at a max 1.5 x width of the pavement.
- Where possible joints should be located to match kerbing and / or adjacent pavement joints.
- All pedestrian footpath jointings as follows (uno).



TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

rev	date	description	dm	ch/k
06	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
05	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% DESIGN	ASE	RGU

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2081
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

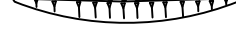
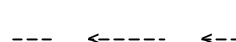
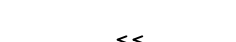
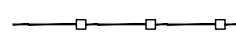
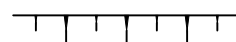
enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT 24 VIEW STREET, CESSNOCK, 2325 NSW
---------	---

drawing title	NOTES SHEET
---------------	-------------

status FOR INFORMATION ONLY			
scale at A1 NTS	drawn ASE	checked RGU	approved
project no. 6850	sheet 6850-CV-0002	rev. 06	

EROSION AND SEDIMENT CONTROL LEGEND

- 
- Batter

Siltation fence, with star pickets at max 2.5m centres (typ)

Catch drain

Overland flow path

Tree to be removed

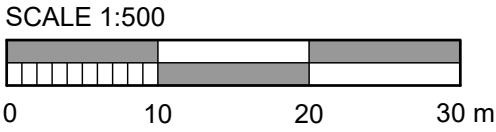
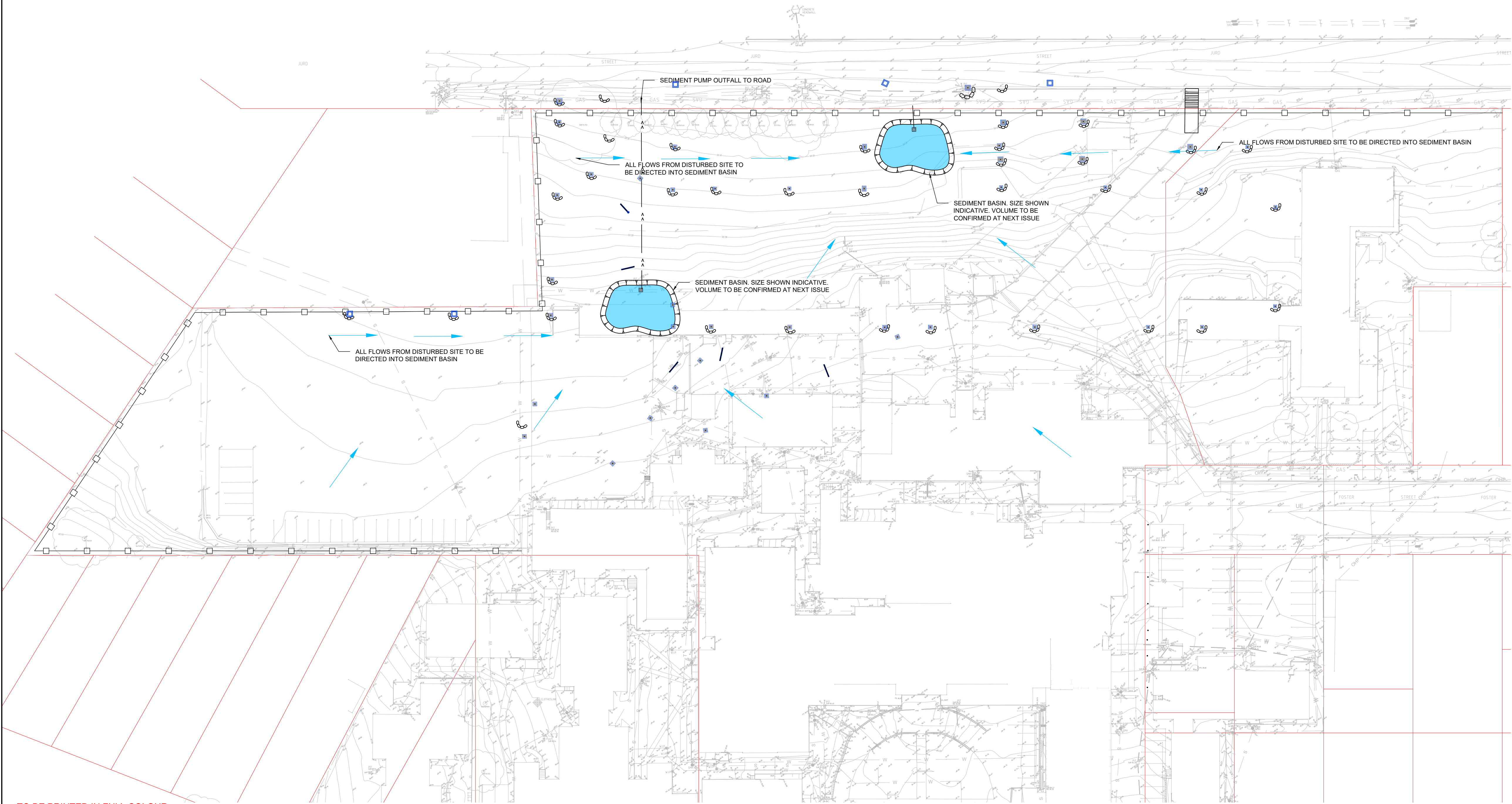
Stockpile

Stormwater pit, with Geotextile filter

Hay bale barriers

Sandbag sediment trap

Disturbed surface area



NOT FOR CONSTRUCTION

TO BE PRINTED IN FULL COLOUR

04	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
03	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
02	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
01	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	SCO	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

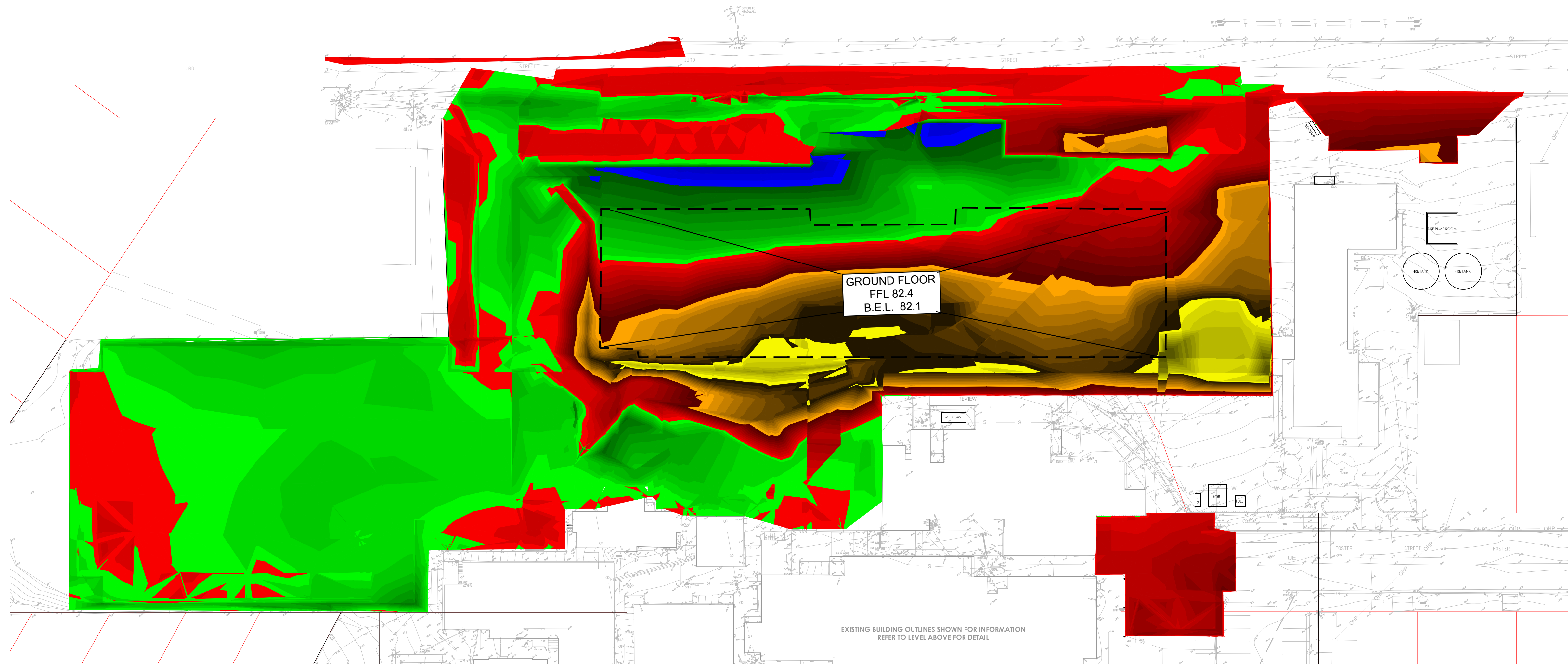
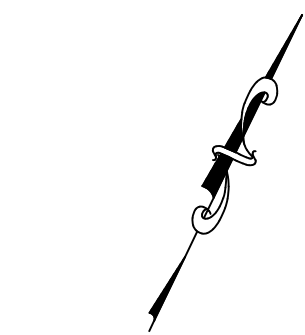
enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT
	24 VIEW STREET, CESSNOCK, 2325 NSW

drawing title	EROSION AND SEDIMENT CONTROL PLAN
---------------	--------------------------------------

status				FOR INFORMATION ONLY			
scale at A1		drawn		checked		approved	
1:500		SCO		RGU			
project no.		sheet				rev.	
6850		6850-CV-1001				04	

Date generated: 3/05/2024 11:20:00 AM I:\TRANSPORT\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-2001



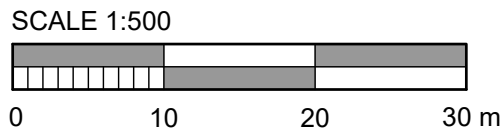
EXISTING BUILDING OUTLINES SHOWN FOR INFORMATION
REFER TO LEVEL ABOVE FOR DETAIL

WORKS	VOLUME
BULK EARTH WORKS VOLUME #	7,853cum (CUT) 2,225cum (FILL) NET:6,088(CUT)
STRIPPING (-200 to -800mm) ESTIMATE	3,832m³
CLAY ESTIMATE	1,628m³

ADDITIONAL ALLOWANCE FOR PILING PAD IF REQUIRED.
ADDITIONAL ALLOWANCE FOR RETAINING WALL DURING CONSTRUCTION

NOTE: ANY FILL MATERIAL IN-SITU OR RE-USED IS TO BE DUG OUT AND RE-COMPACTED IN ACCORDANCE WITH THE CIVIL SPECIFICATION. WE ESTIMATE THIS VOLUME TO BE IN THE ORDER OF 2,200m³. OSD TANK 256cum.

DEPTH RANGE		Colour
Lower_value	Upper_value	
-3.00	to -2.9	
-2.9	to -2.8	
-2.8	to -2.7	
-2.7	to -2.6	
-2.6	to -2.5	
-2.5	to -2.4	
-2.4	to -2.3	
-2.3	to -2.2	
-2.2	to -2.1	
-2.1	to -2.0	
-2.0	to -1.9	
-1.9	to -1.8	
-1.8	to -1.7	
-1.7	to -1.6	
-1.6	to -1.5	
-1.5	to -1.4	
-1.4	to -1.3	
-1.3	to -1.2	
-1.2	to -1.1	
-1.1	to -1.0	
-1.0	to -0.9	
-0.9	to -0.8	
-0.8	to -0.7	
-0.7	to -0.6	
-0.6	to -0.5	
-0.5	to -0.4	
-0.4	to -0.3	
-0.3	to -0.2	
-0.2	to -0.1	
-0.1	to 0.0	
0.0	to 0.1	
0.1	to 0.2	
0.2	to 0.3	
0.3	to 0.4	
0.4	to 0.5	
0.5	to 0.6	
0.6	to 0.7	
0.7	to 0.8	
0.8	to 0.9	
0.9	to 1.0	
1.0	to 1.1	
1.1	to 1.2	
1.2	to 1.3	
1.3	to 1.4	
1.4	to 1.5	
1.5	to 1.6	
1.6	to 1.7	
1.7	to 1.8	
1.8	to 1.9	
1.9	to 2.0	
2.0	to 2.1	
2.1	to 2.2	
2.2	to 2.3	
2.3	to 2.4	
2.4	to 2.5	
2.5	to 2.6	
2.6	to 2.7	
2.7	to 2.8	
2.8	to 2.9	
2.9	to 3.00	



TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

06	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
05	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
04	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
03	11/06/24	ISSUE FOR 80% SD	RGU	PAL
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	RGU	PAL
01	10/05/24	ISSUE FOR 50% DESIGN	RGU	PAL
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

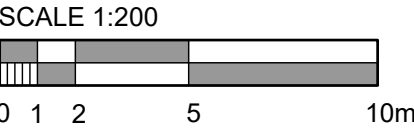
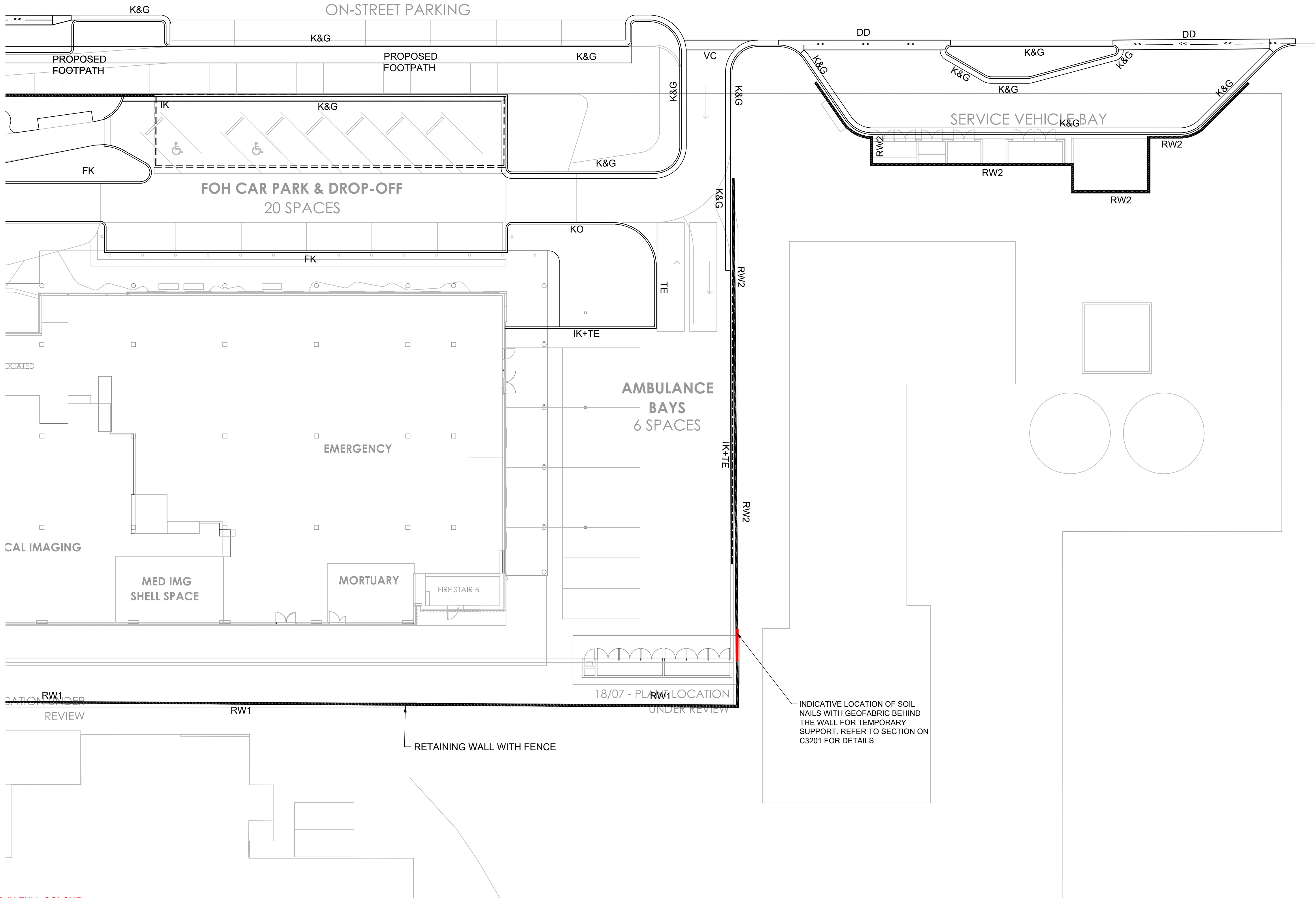
project	CESSNOCK HOSPITAL REDEVELOPMENT
	24 VIEW STREET, CESSNOCK, 2325 NSW

drawing title	BULK EARTHWORKS PLAN
---------------	----------------------

status	FOR INFORMATION ONLY		
scale at A1 1:500	drawn RGU	checked PAL	approved
project no. 6850	sheet 6850-CV-2001	rev. 06	

SITEWORKS LEGEND

	Property boundary
	Finished surface level
	Finished contour
	Design slope
	Kerb and gutter
	Kerb only
	Flush kerb
	Dish drain
	Mountable kerb
	Mountable integral kerb
	Mountable integral kerb with thickened edge
	Integral kerb with thickened edge
	Thickened edge
	Integral kerb
	Integral kerb with edge downturn
	Kerb and toe
	Kerb Ramp
	Taper kerb to zero height over 500 mm Wheelstop
	Retaining wall 1. Refer to drawing 3102 for details
	Brickwork retaining wall
	Dowelled expansion joint
	Sawn joint
	Keyed construction joint
	Weakened plane joint
	Expansion joint
	Tied keyed joint
	Guard Rail



NOT FOR CONSTRUCTION

TO BE PRINTED IN FULL COLOUR

05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

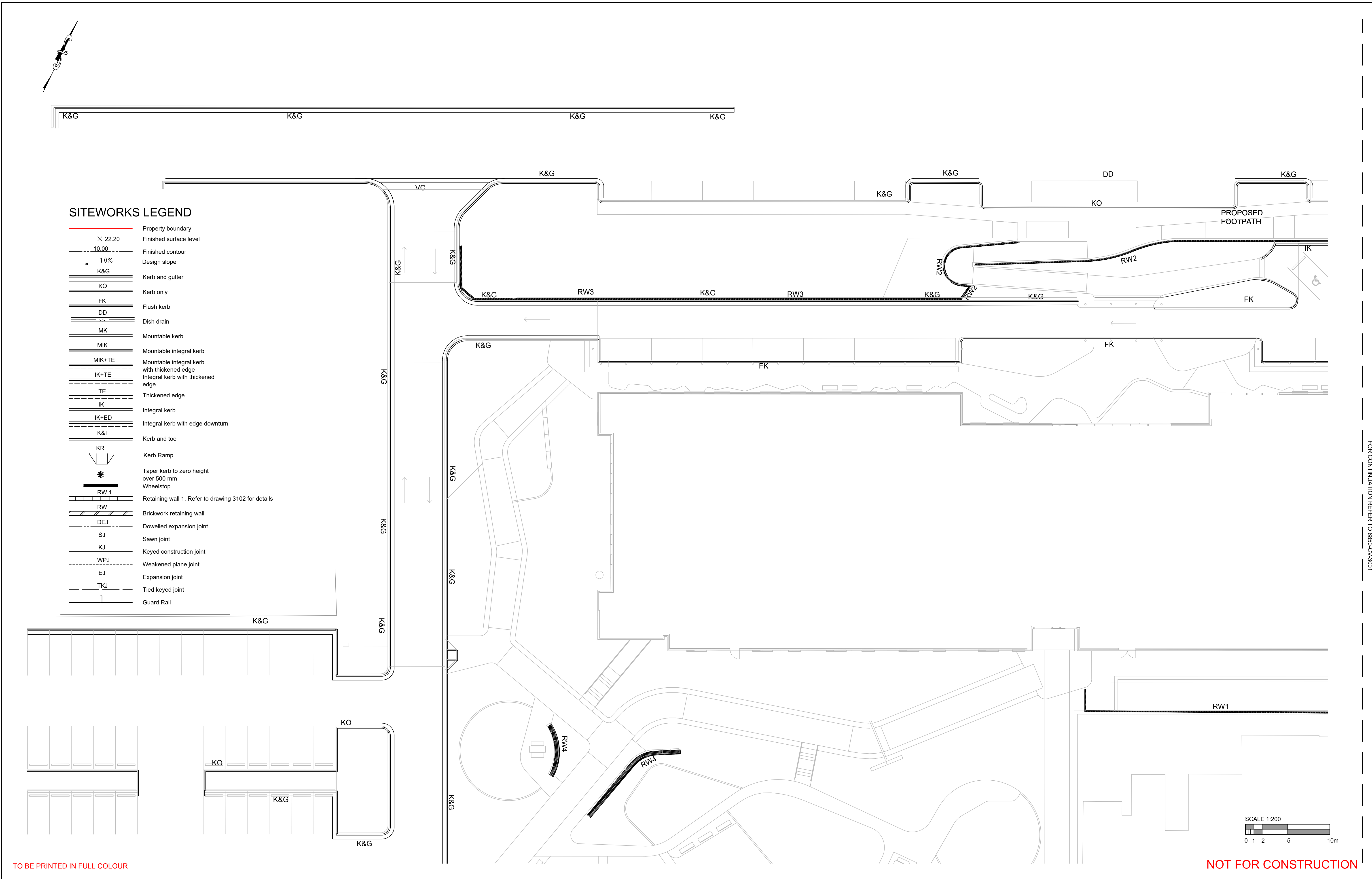
project
**CESSNOCK HOSPITAL
REDEVELOPMENT**
24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title
**SITEWORKS PLAN
SHEET 1**

status
FOR INFORMATION ONLY

scale at A1 1:200	drawn ASE	checked RGU	approved
project no. 6850	sheet 6850-CV-3001	rev. 05	

Date generated: 3/05/2024 4:34:02 PM U:\TRANSITION\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-3002



05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------



enstruct group pty ltd

Level 4, 2 Glen Street
Mills Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

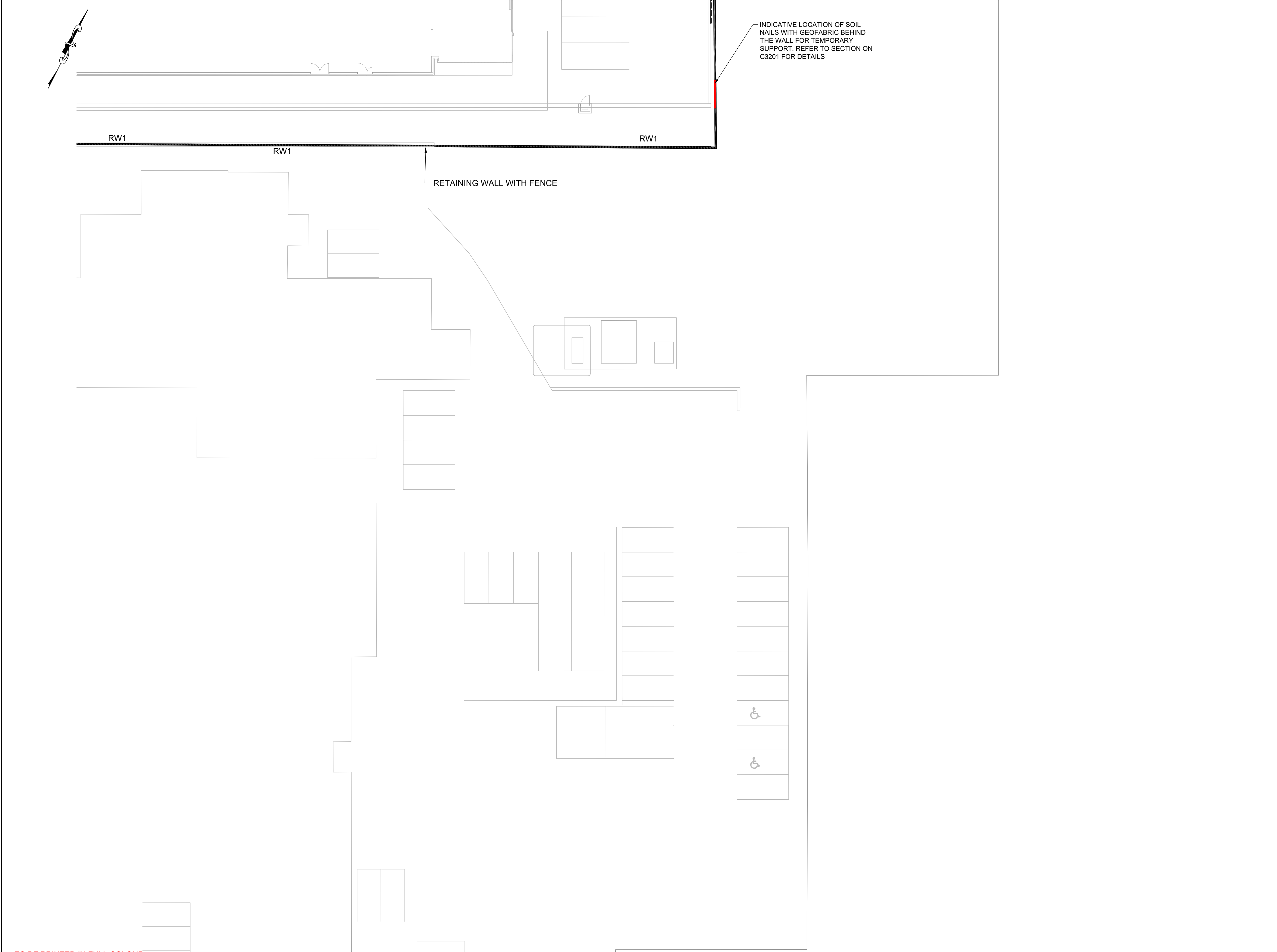
enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT
	24 VIEW STREET, CESSNOCK, 2325 NSW

drawing title	SITWORKS PLAN SHEET 2
---------------	--------------------------

status	FOR INFORMATION ONLY
scale at A1	1:200
drawn	ASE
checked	RGU
approved	
project no.	6850
sheet	6850-CV-3002
rev.	05

Date generated: 30/09/2024 8:06:54 AM | U:\TRANSITION\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-3003



SITEWORKS LEGEND

	Property boundary
	Finished surface level
	Finished contour
	Design slope
	Kerb and gutter
	Kerb only
	Flush kerb
	Dish drain
	Mountable kerb
	Mountable integral kerb
	Mountable integral kerb with thickened edge
	Integral kerb with thickened edge
	Thickened edge
	Integral kerb
	Integral kerb with edge downturn
	Kerb and toe
	Kerb Ramp
	Taper kerb to zero height over 500 mm Wheelstop
	Retaining wall 1. Refer to drawing 3102 for details
	Brickwork retaining wall
	Dowelled expansion joint
	Sawn joint
	Keyed construction joint
	Weakened plane joint
	Expansion joint
	Tied keyed joint
	Guard Rail

FOR CONTINUATION REFER TO 6850-CV-3001



NOT FOR CONSTRUCTION

03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	

enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

SITEWORKS PLAN
SHEET 3

status

FOR INFORMATION ONLY

scale at A1 1:200	drawn ASE	checked RGU	approved
project no. 6850	sheet 6850-CV-3003	rev. 03	



	Property boundary
	Finished surface level
	Finished contour
	Design slope
	Kerb and gutter
	Kerb only
	Flush kerb
	Dish drain
	Mountable kerb
	Mountable integral kerb
	Mountable integral kerb with thickened edge
	Integral kerb with thickened edge
	Thickened edge
	Integral kerb
	Integral kerb with edge downturn
	Kerb and toe
	Kerb Ramp
	Taper kerb to zero height over 500 mm
	Wheelstop
	Retaining wall 1. Refer to drawing 3102 for details
	Brickwork retaining wall
	Dowelled expansion joint
	Sawn joint
	Keyed construction joint
	Weakened plane joint
	Expansion joint
	Tied keyed joint
	Guard Rail

FOR CONTINUATION REFER TO 6850-CV-3001

SCALE 1:200

0 1 2 5 10m

project no. 6850	sheet 6850-CV-3004	rev. 03
---------------------	-----------------------	------------

rev	date	description	drm	ch'k



drawing title

status

FOR INFORMATION ONLY

Date generated: 20/02/2024 5:02:24 PM U:\TRANSITION\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-3005

TO BE PRINTED IN FULL COLOUR

03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au



project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

SITEWORKS PLAN
SHEET 5

status

FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

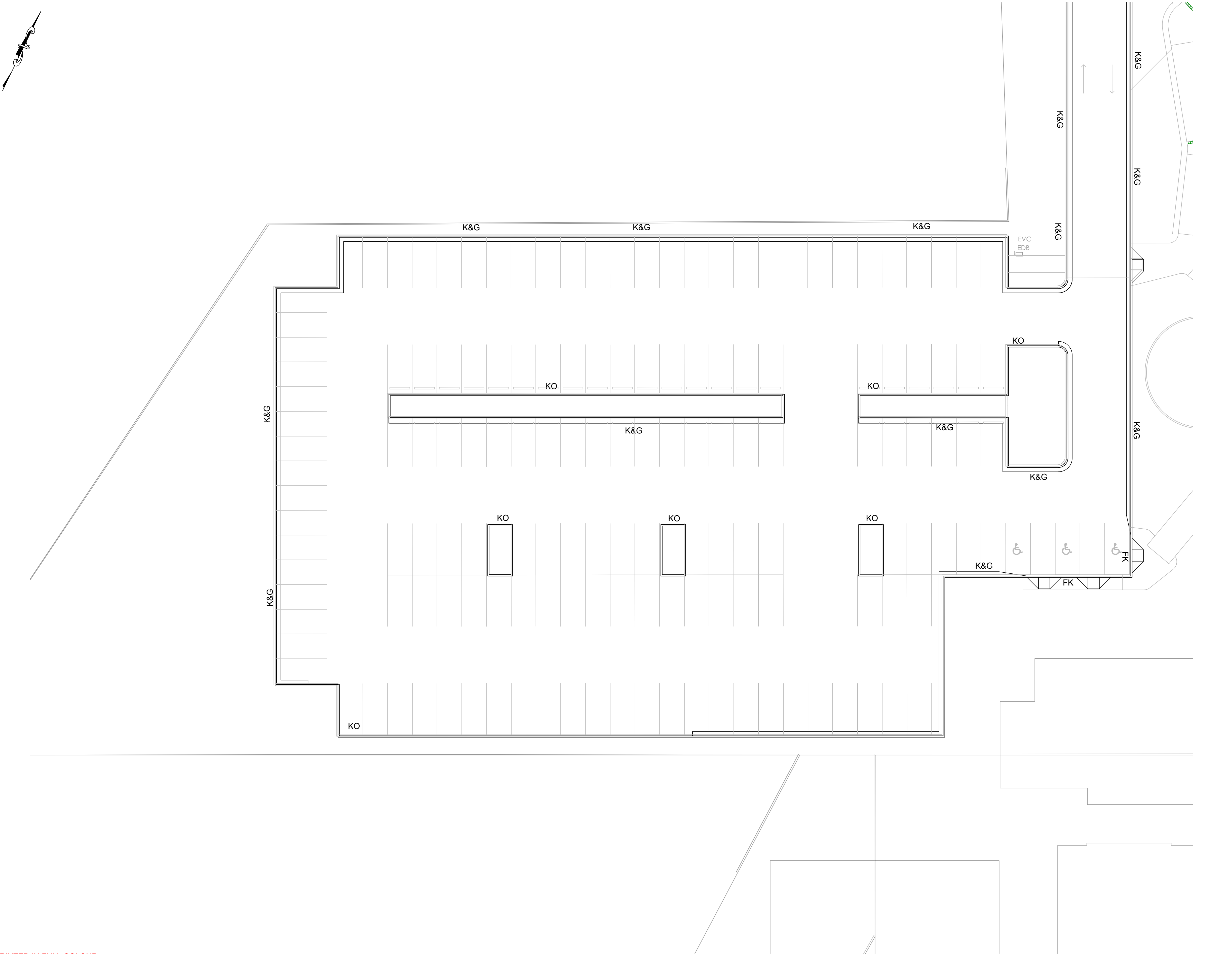
checked
RGU

approved

project no.
6850

sheet
6850-CV-3005

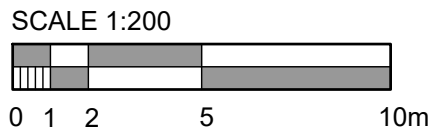
rev.
03



SITEWORKS LEGEND

- Property boundary
- Finished surface level
- Finished contour
- Design slope
- Kerb and gutter
- Kerb only
- Flush kerb
- Dish drain
- Mountable kerb
- Mountable integral kerb
- Mountable integral kerb with thickened edge
- Integral kerb with thickened edge
- Thickened edge
- Integral kerb
- Integral kerb with edge downturn
- Kerb and toe
- Kerb Ramp
- Taper kerb to zero height over 500 mm
- Wheelstop
- Retaining wall 1. Refer to drawing 3102 for details
- Brickwork retaining wall
- Dowelled expansion joint
- Sawn joint
- Keyed construction joint
- Weakened plane joint
- Expansion joint
- Tied keyed joint
- Guard Rail

FOR CONTINUATION REFER TO 6850-CV-3001



NOT FOR CONSTRUCTION



FIXED IN-SITU BOLLARD IN FLEXIBLE PAVEMENT

SCALE 1:10



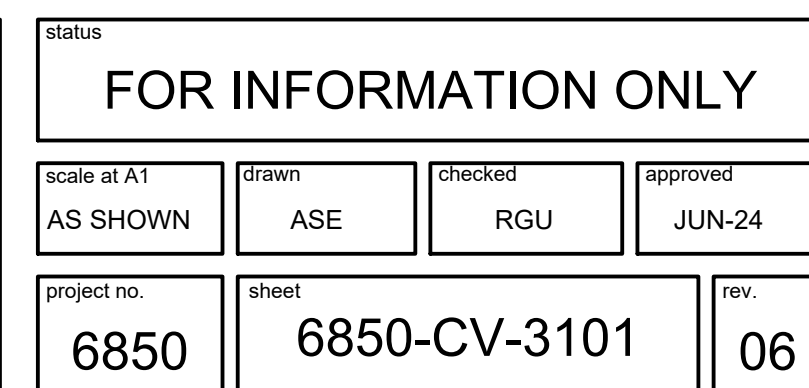
SCALE 1:20

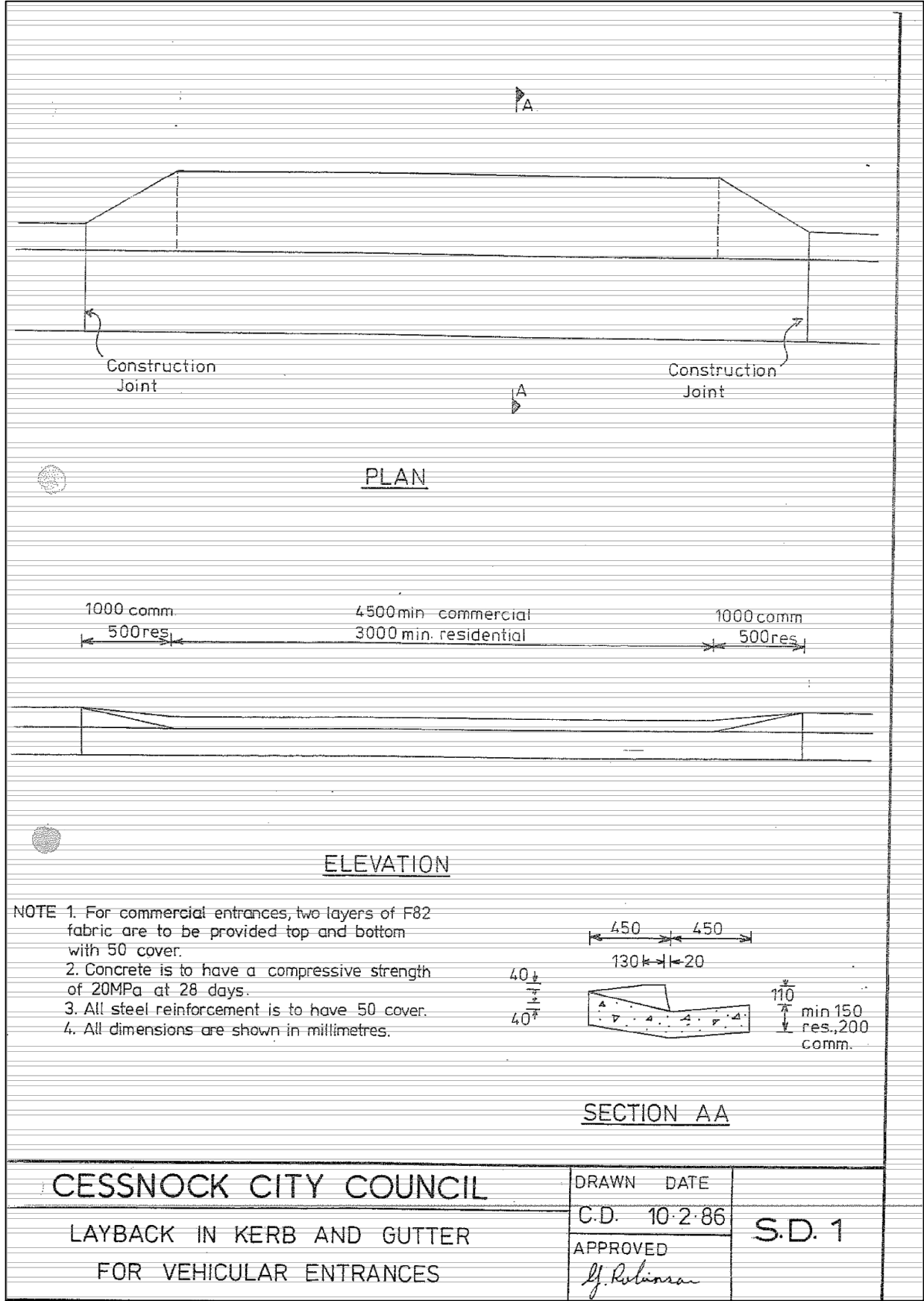
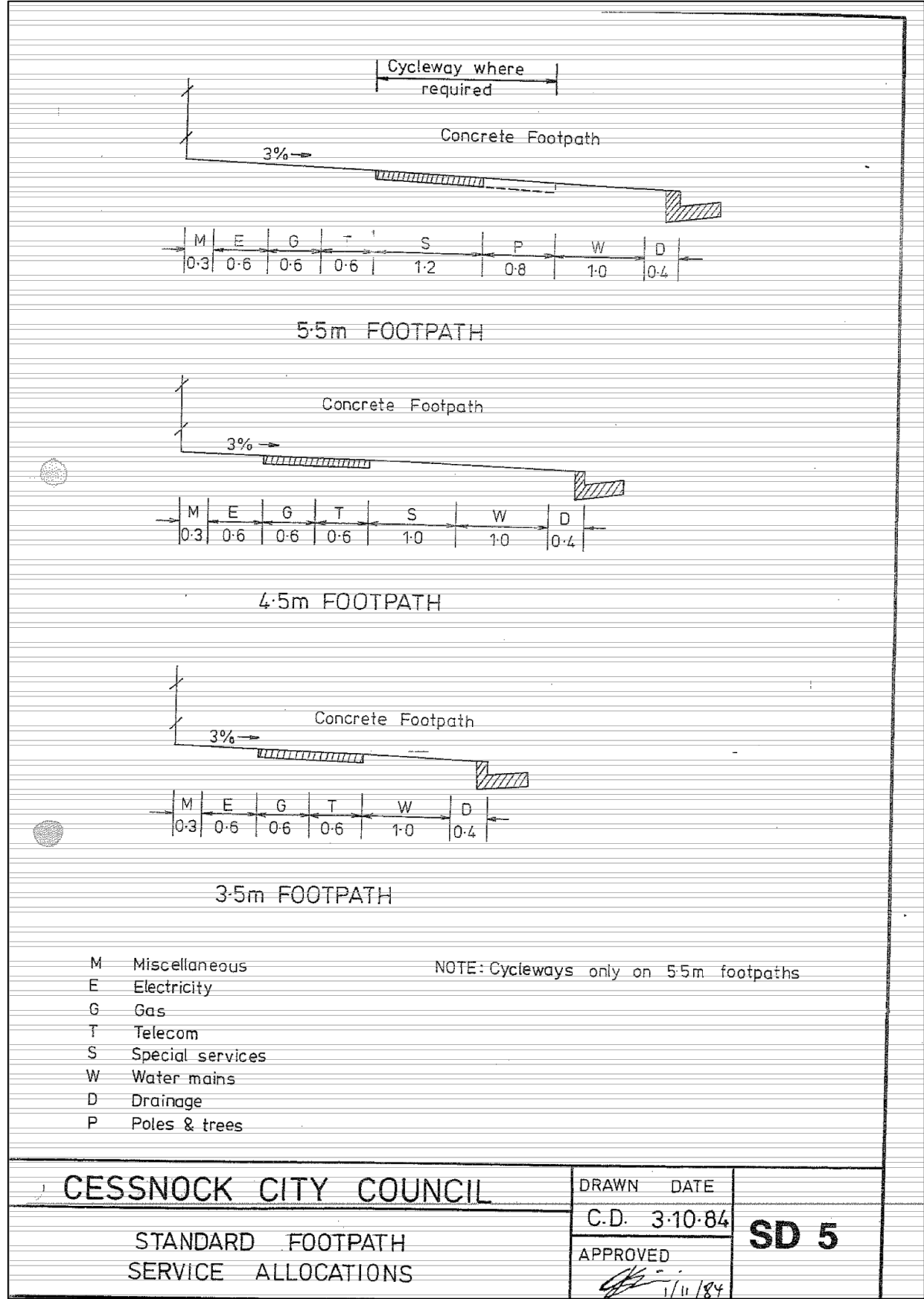
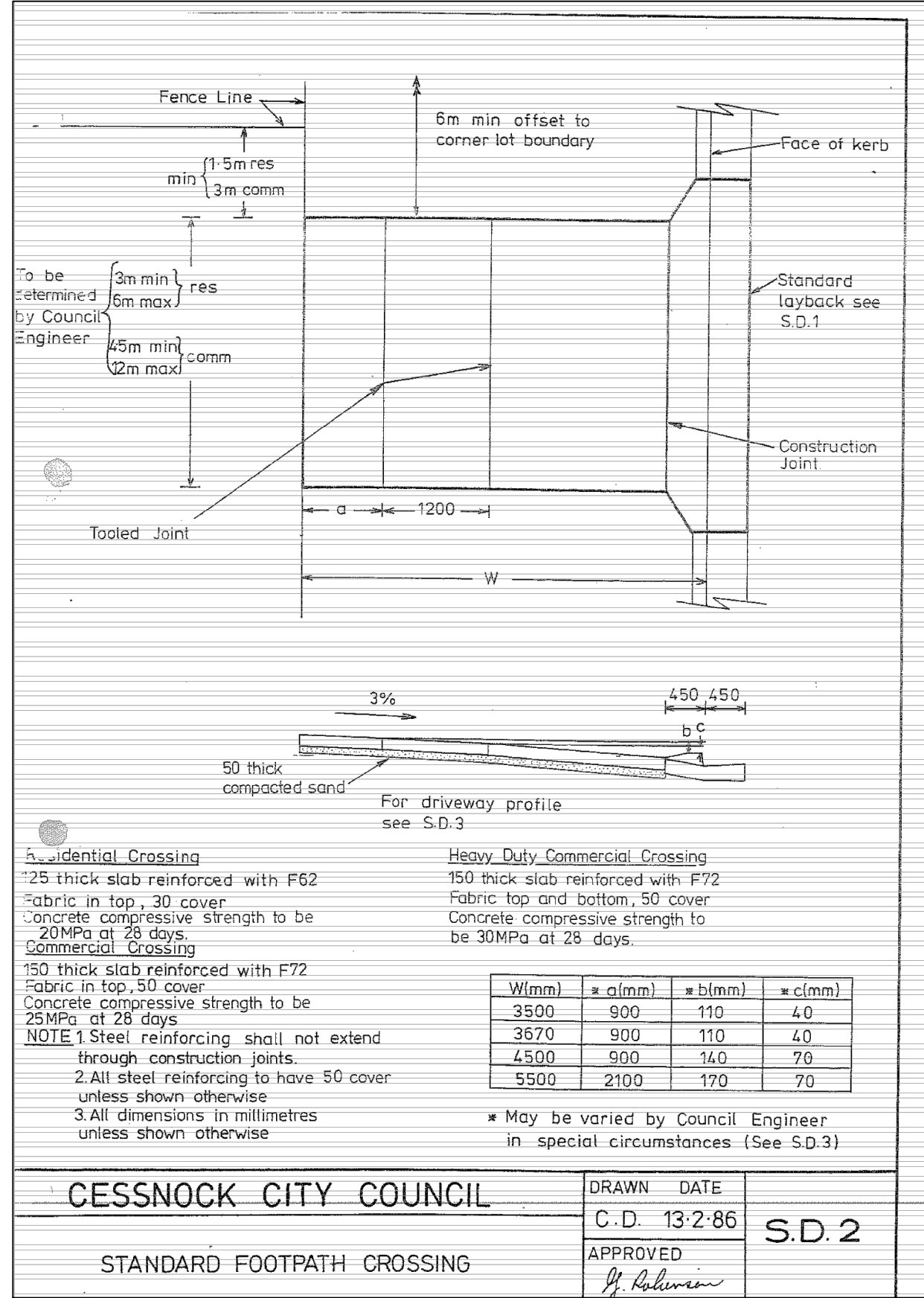
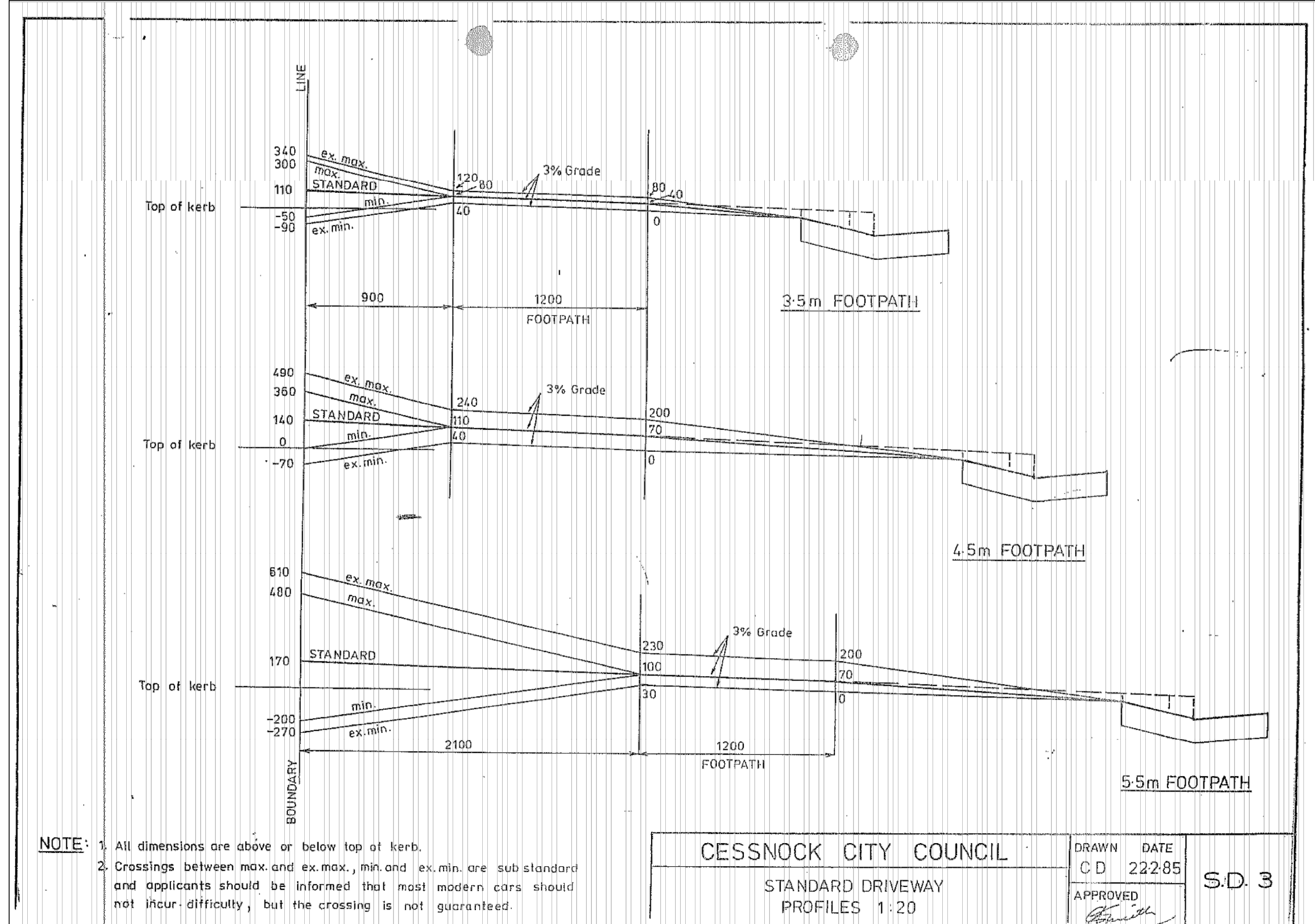


0 200 400 600 800 1000mm

NOT FOR CONSTRUCTION

rev	date	description	drm	ch/k





Date generated: 3/05/2024 10:05:13 AM L:\TRANSITION\STRUCT\CAD\1-6800650\CV\DRAWINGS\6850-CV-3102

TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

06	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
05	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
04	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
03	11/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------



enstruct group pty ltd

Level 4, 2 Glen Street
Milsom Point NSW 2061
Australia

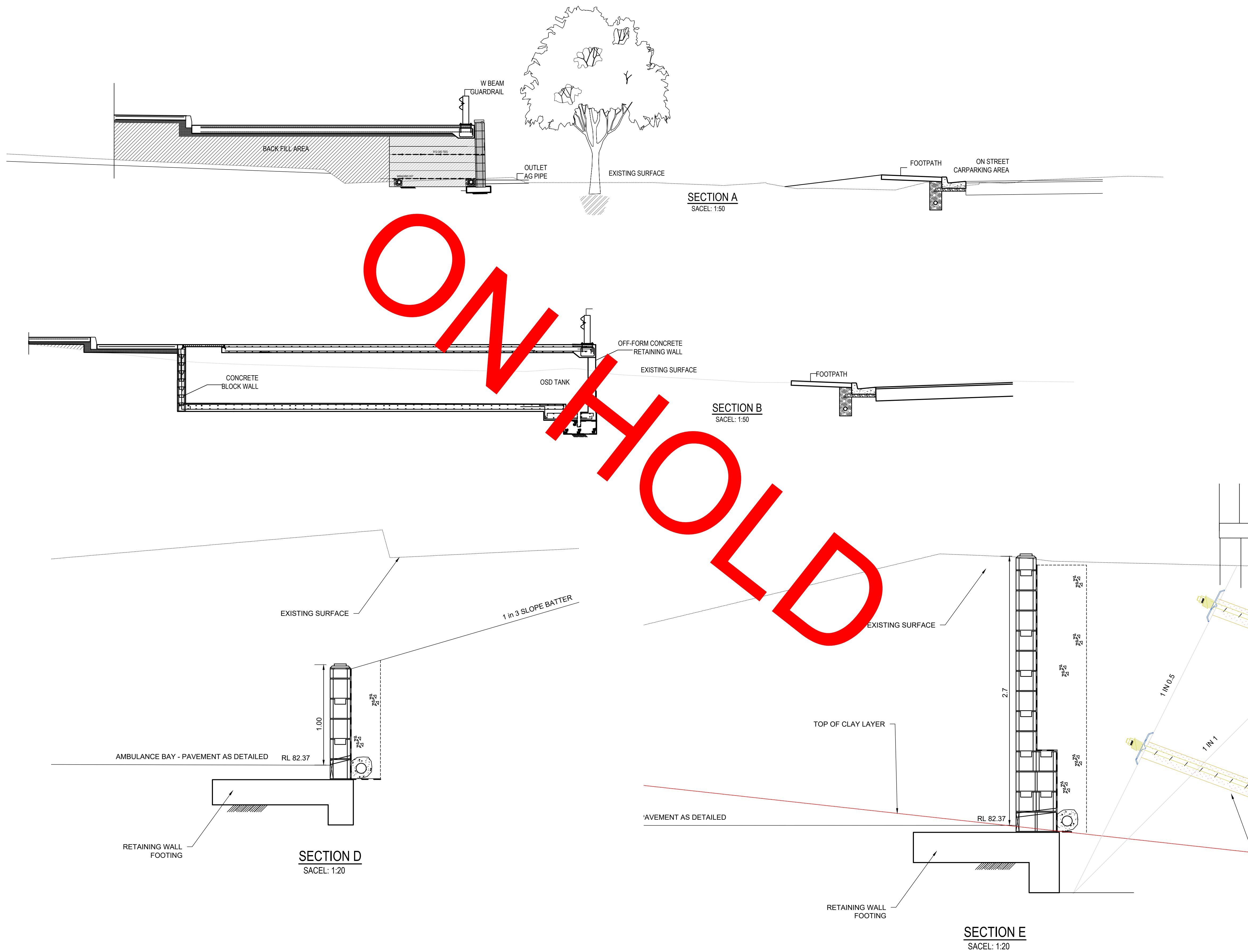
Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project
CESSNOCK HOSPITAL
REDEVELOPMENT
24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title
SITWORKS DETAIL
SHEET 2

status FOR INFORMATION ONLY			
scale at A1 AS SHOWN	drawn ASE	checked RGU	approved JUN-24
project no. 6850	sheet 6850-CV-3102	rev. 06	



TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

rev	date	description	dm	ch/k
04	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
03	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project

CESSNOCK HOSPITAL
REDEVELOPMENT

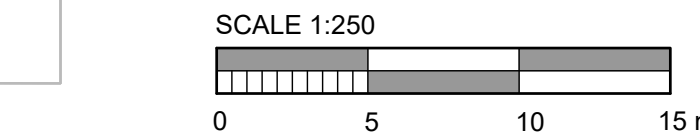
24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title	RETAINING WALL SECTION SHEET 1
---------------	-----------------------------------

status				FOR INFORMATION ONLY			
scale at A1 AS SHOWN		drawn SCO		checked PAL		approved JUN-24	
project no. 6850		sheet 6850-CV-3201				rev. 04	

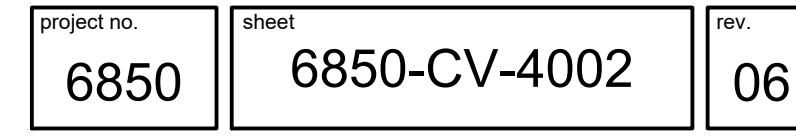


project no. 6850	sheet 6850-CV-4001	rev. C
---------------------	-----------------------	-----------



TO BE PRINTED IN FULL COLOUR

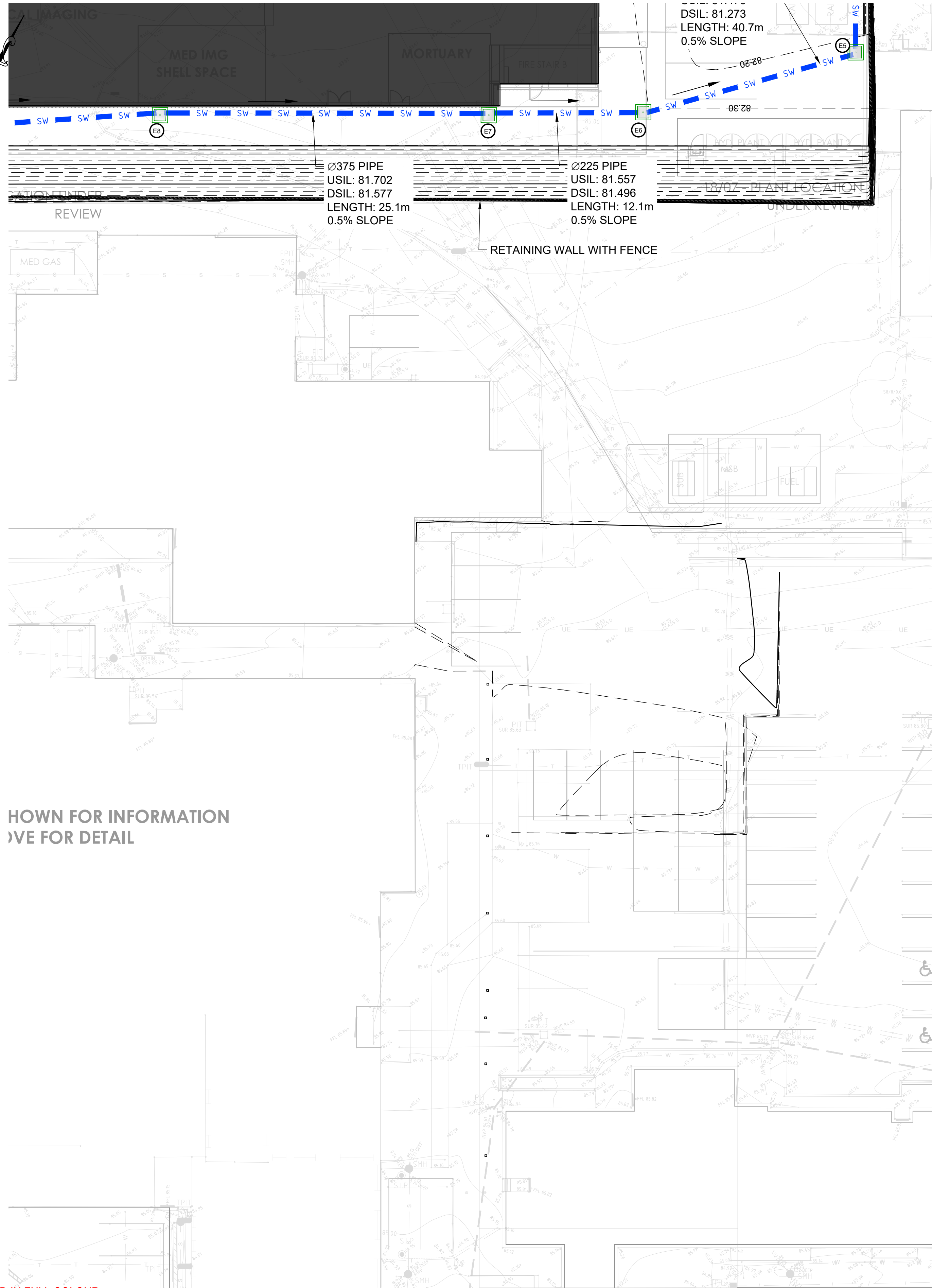
rev	date	description	drm	ch/k



Date generated: 3/05/2024 10:01:57 AM U:\TRANSITION\STRUCT\CAD\U-6800\650\CIVIL\DRAWINGS\650-CV-4003

TO BE PRINTED IN FULL COLOUR

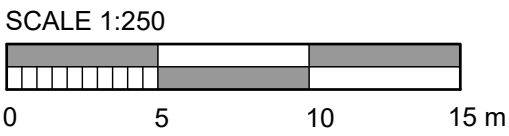
HOWN FOR INFORMATION
IVE FOR DETAIL



DRAINAGE LEGEND

- SW Stormwater pit, flow direction and line with
- IL10.00
600 Ø 2
1.25%
Q=345 L/s
IL9.65
Invert level upstream
Pipe size and class
Pipe grade
Flow (Litres per second)
Invert level downstream
- Grated and solid lid pits
- On-grade kerb inlet and sag pit
- DP Down pipe
- RP Rodding point
- Concrete encased stormwater line
- Stormwater line with pipe taper and flow direction
- Dish drain
- GD Grated drain
- SS subsoil drainage line (100 dia) at 1% min slope (typ)
- IR Intermediate riser with subsoil drainage line (100 dia)
- FP Flushing point with subsoil drainage line (100 dia)
- Grass catch drain
- Overland flow path

Note: All pipes below 375 dia to be uPVC
all above 375dia to be RCP



NOT FOR CONSTRUCTION

rev	date	description	dm	ch/k
03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title	STORMWATER DRAINAGE PLAN SHEET 3
---------------	-------------------------------------

status			
FOR INFORMATION ONLY			
scale at A1	drawn	checked	approved
1:250	SCO	PAL	JUN-24
project no.	sheet		rev.
6850	6850-CV-4003		03

Date generated: 3/05/2024 5:58:45 PM U:\TRANSITION\ENSTRUCT\CAD\U-6850\650\CIVIL\DRAWINGS\650-CV-4004

TO BE PRINTED IN FULL COLOUR

03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

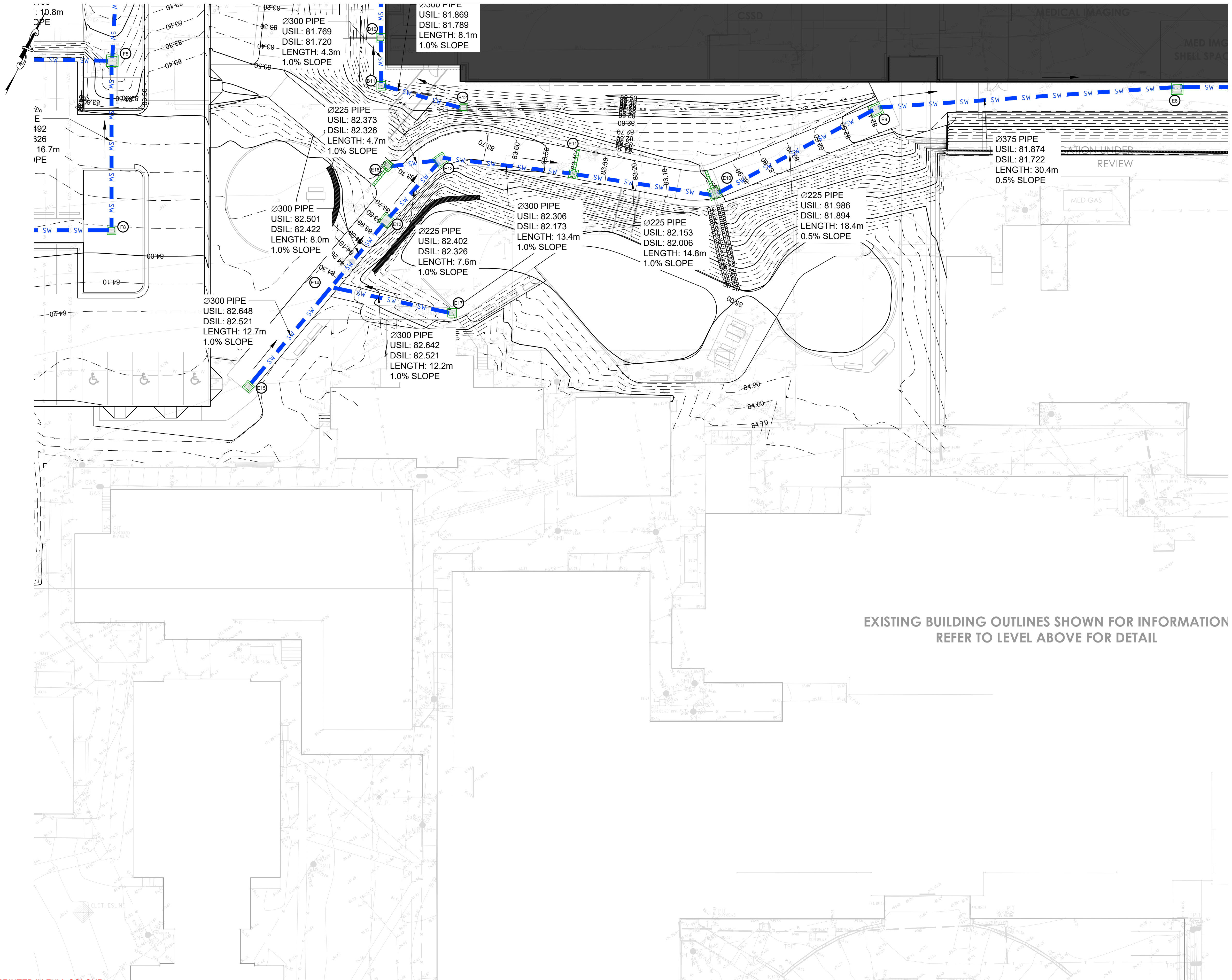
drawing title

STORMWATER DRAINAGE
PLAN SHEET 4

status

FOR INFORMATION ONLY

scale at A1 1:250	drawn SCO	checked PAL	approved JUN-24
project no. 6850	sheet 6850-CV-4004	rev. 03	

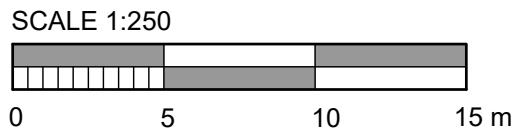


DRAINAGE LEGEND

- SW Stormwater pit, flow direction and line with Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream
- Grated and solid lid pits
- On-grade kerb inlet and sag pit
- DP Down pipe
- RP Rodding point
- Concrete encased stormwater line
- SW Stormwater line with pipe taper and flow direction
- Dish drain
- GD Grated drain
- SS subsoil drainage line (100 dia) at 1% min slope (typ)
- SS IR SS Intermediate riser with subsoil drainage line (100 dia)
- FP Flushing point with subsoil drainage line (100 dia)
- Grass catch drain
- Overland flow path

Note: All pipes below 375 dia to be uPVC all above 375dia to be RCP

EXISTING BUILDING OUTLINES SHOWN FOR INFORMATION
REFER TO LEVEL ABOVE FOR DETAIL



NOT FOR CONSTRUCTION

Date generated: 3/05/2024 5:06:44 PM L:\TRANSITION\ENSTRUCT\CAD\U-6800\650\CV\DRAWINGS\650-CV-4005

TO BE PRINTED IN FULL COLOUR

03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

STORMWATER DRAINAGE
PLAN SHEET 5

status

FOR INFORMATION ONLY

scale at A1
1:250

drawn
SCO

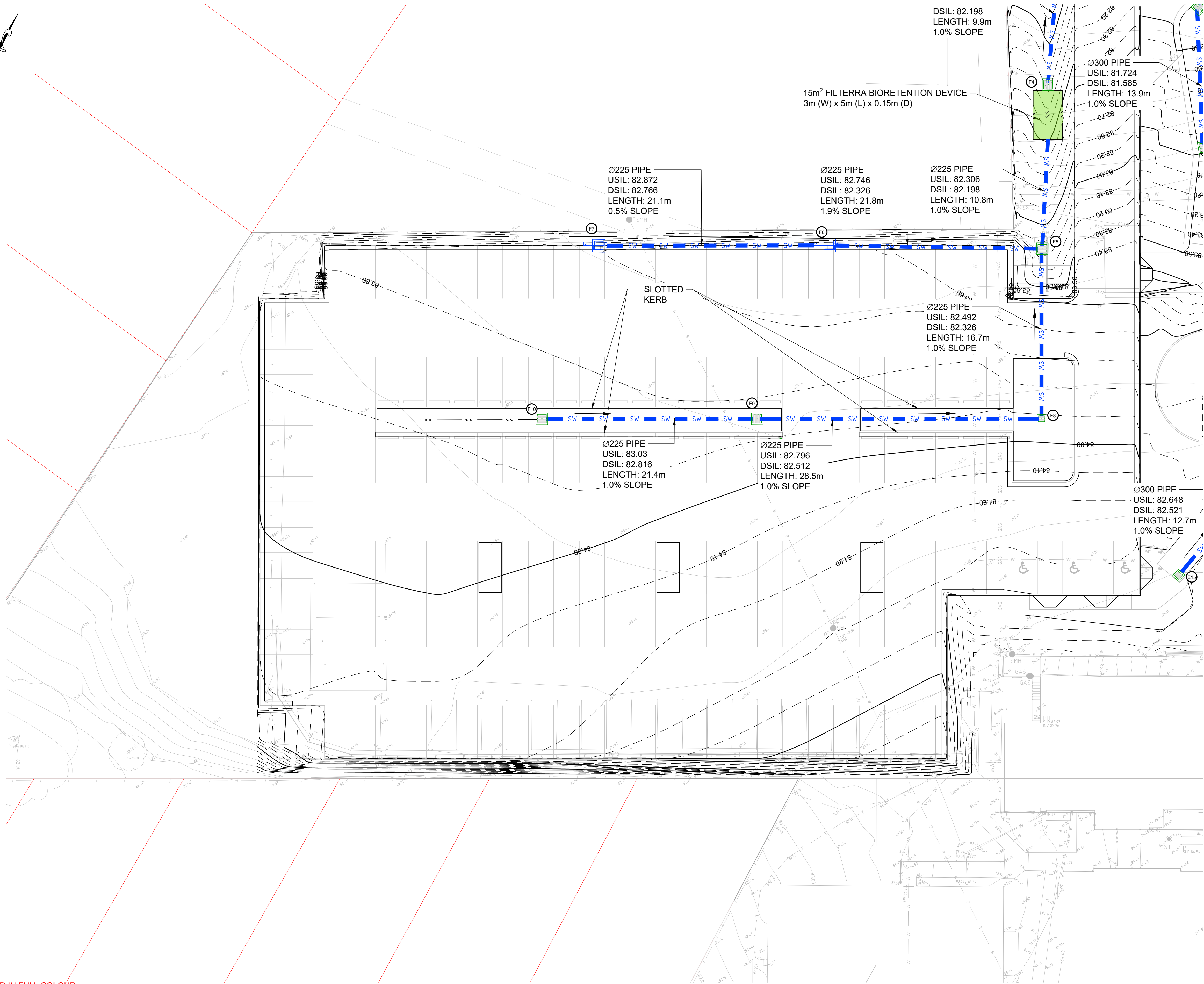
checked
PAL

approved
JUN-24

project no.
6850

sheet
6850-CV-4005

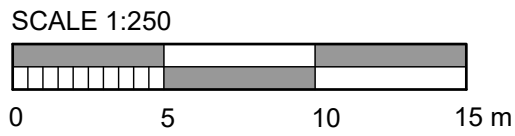
rev.
03



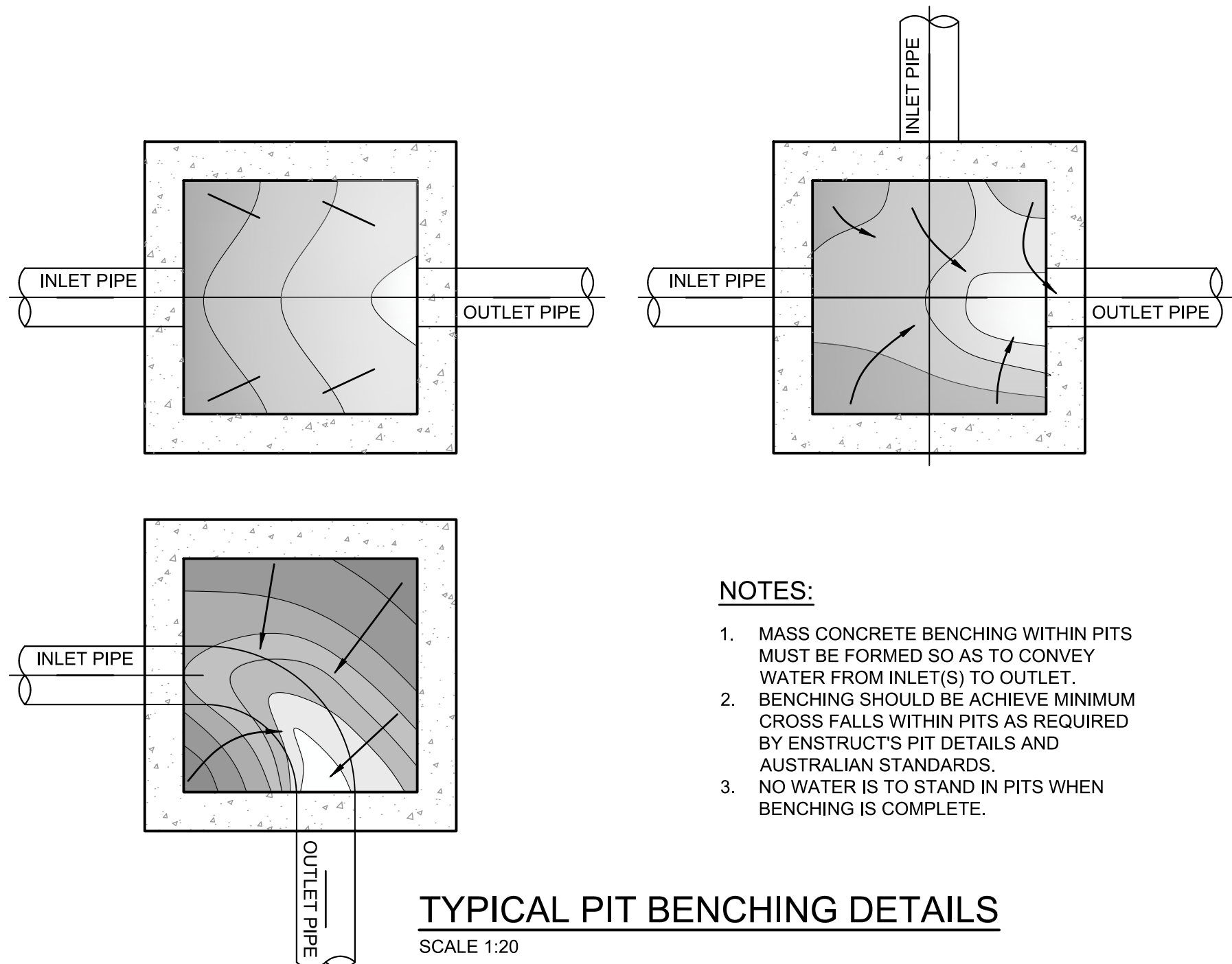
DRAINAGE LEGEND

- SW Stormwater pit, flow direction and line with invert level upstream, Pipe size and class, Pipe grade, Flow (Litres per second), Invert level downstream
- Grated and solid lid pits
- On-grade kerb inlet and sag pit
- DP Down pipe
- RP Rodding point
- Concrete encased stormwater line
- SW Stormwater line with pipe taper and flow direction
- Dish drain
- GD Grated drain
- SS subsoil drainage line (100 dia) at 1% min slope (typ)
- SS IR SS Intermediate riser with subsoil drainage line (100 dia)
- FP Flushing point with subsoil drainage line (100 dia)
- Grass catch drain
- Overland flow path

Note: All pipes below 375 dia to be uPVC
all above 375dia to be RCP

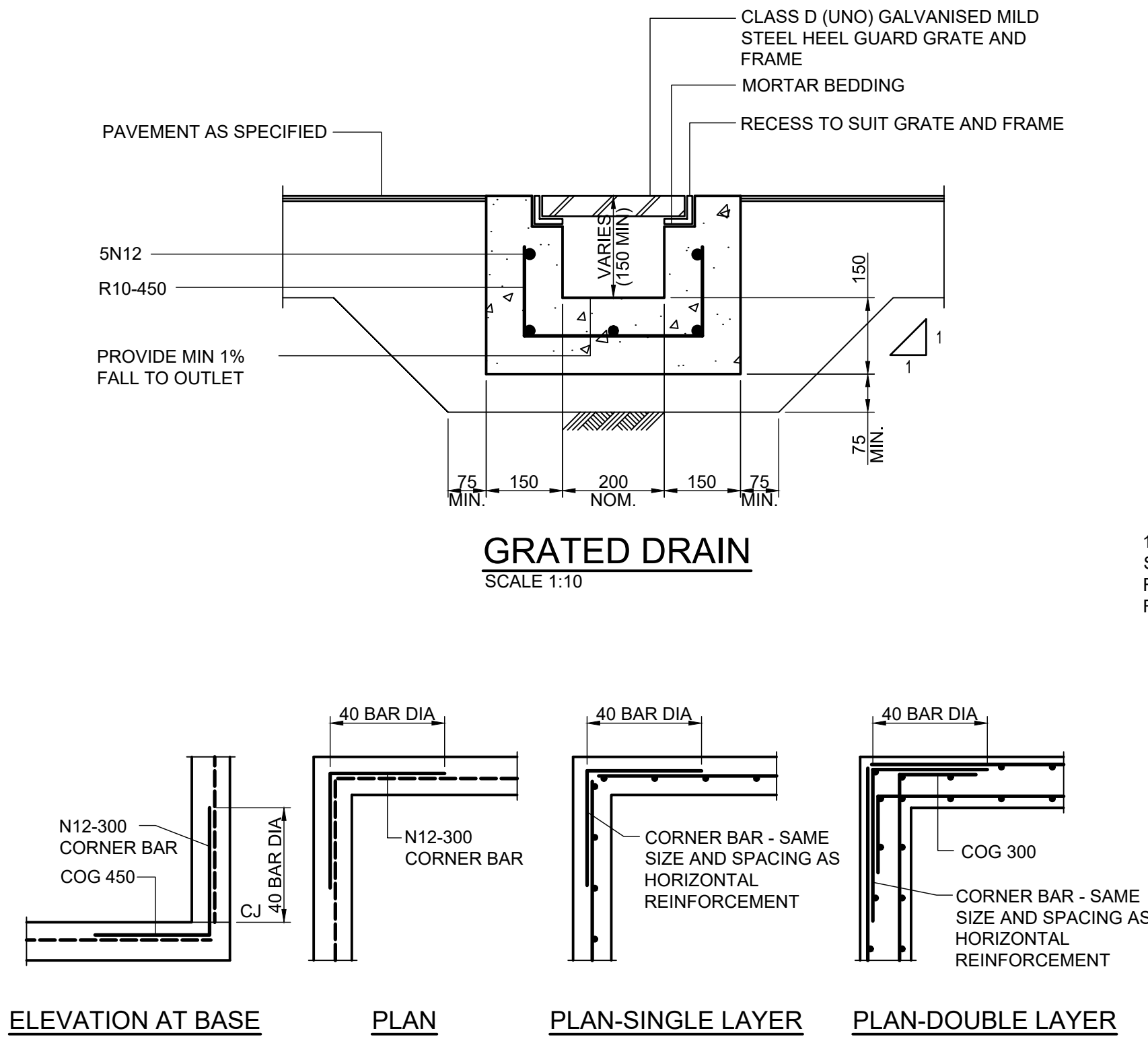


NOT FOR CONSTRUCTION



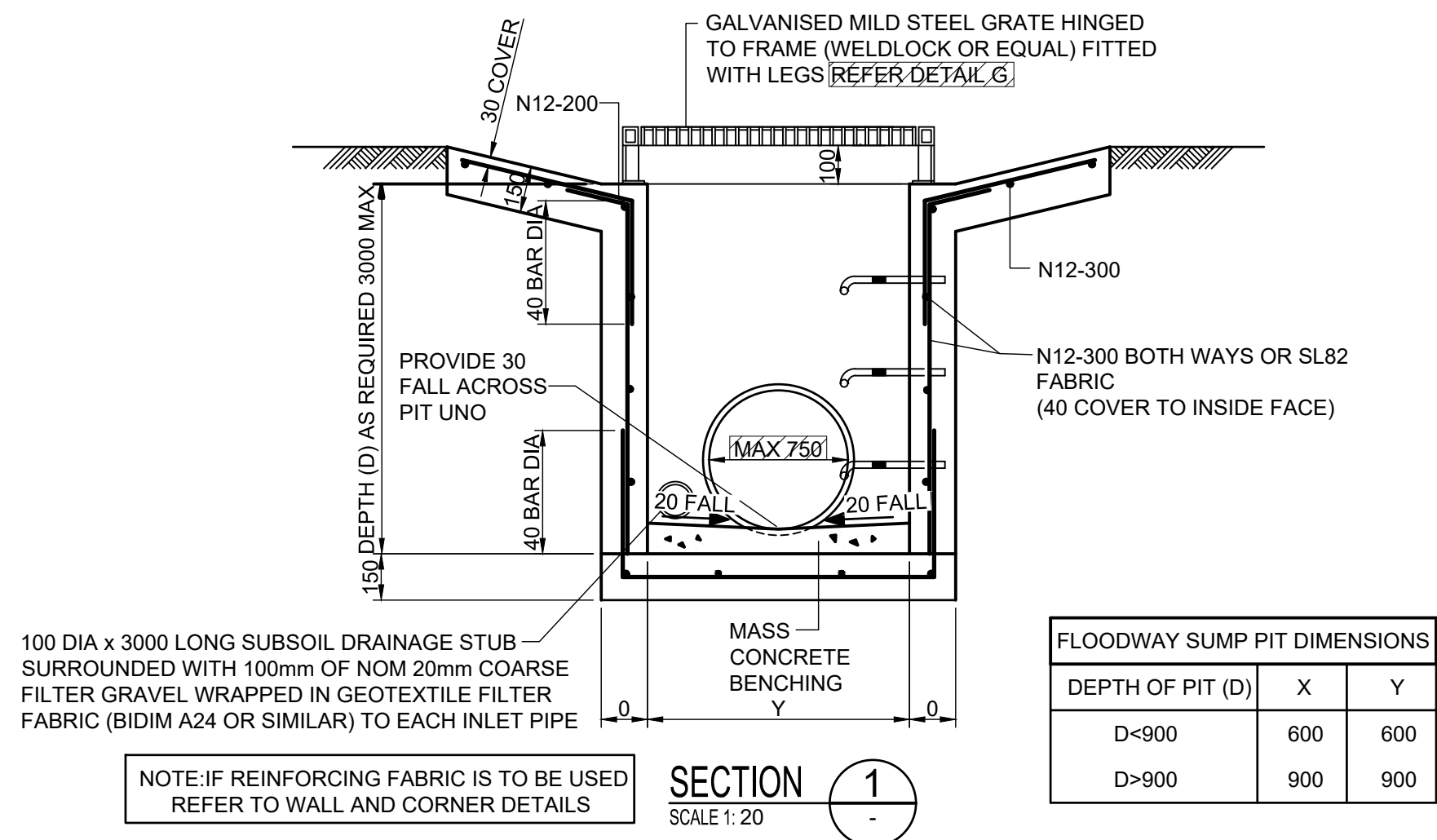
- NOTES:
1. MASS CONCRETE BENCHING WITHIN PITS MUST BE FORMED SO AS TO CONVEY WATER FROM INLET(S) TO OUTLET.
 2. BENCHING SHOULD BE ACHIEVE MINIMUM CROSS FALLS WITHIN PITS AS REQUIRED BY ENSTRUCT'S PIT DETAILS AND AUSTRALIAN STANDARDS.
 3. NO WATER IS TO STAND IN PITS WHEN BENCHING IS COMPLETE.

TYPICAL PIT BENCHING DETAILS
SCALE 1:20

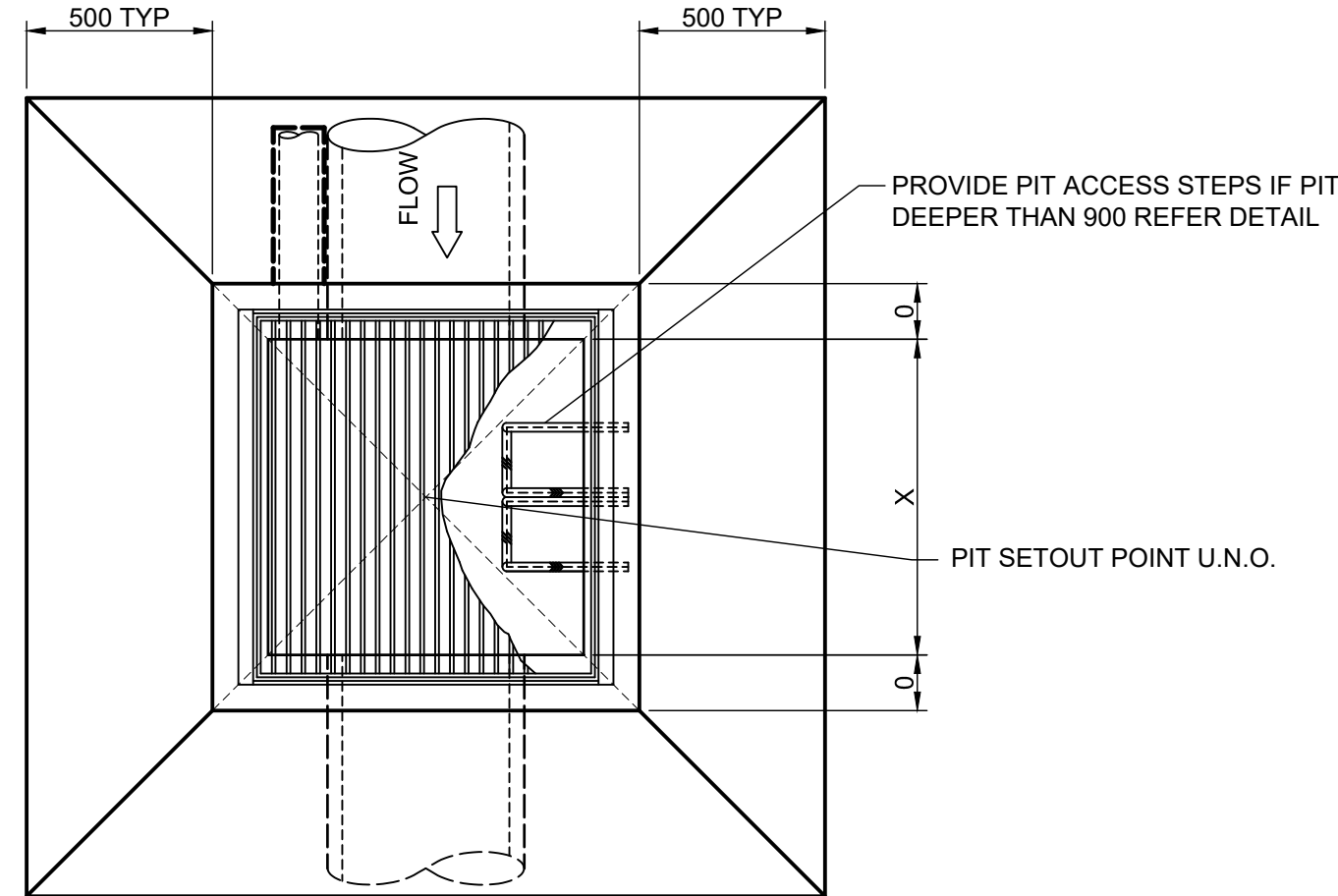


PIT CORNER DETAILS
MESH REINFORCEMENT

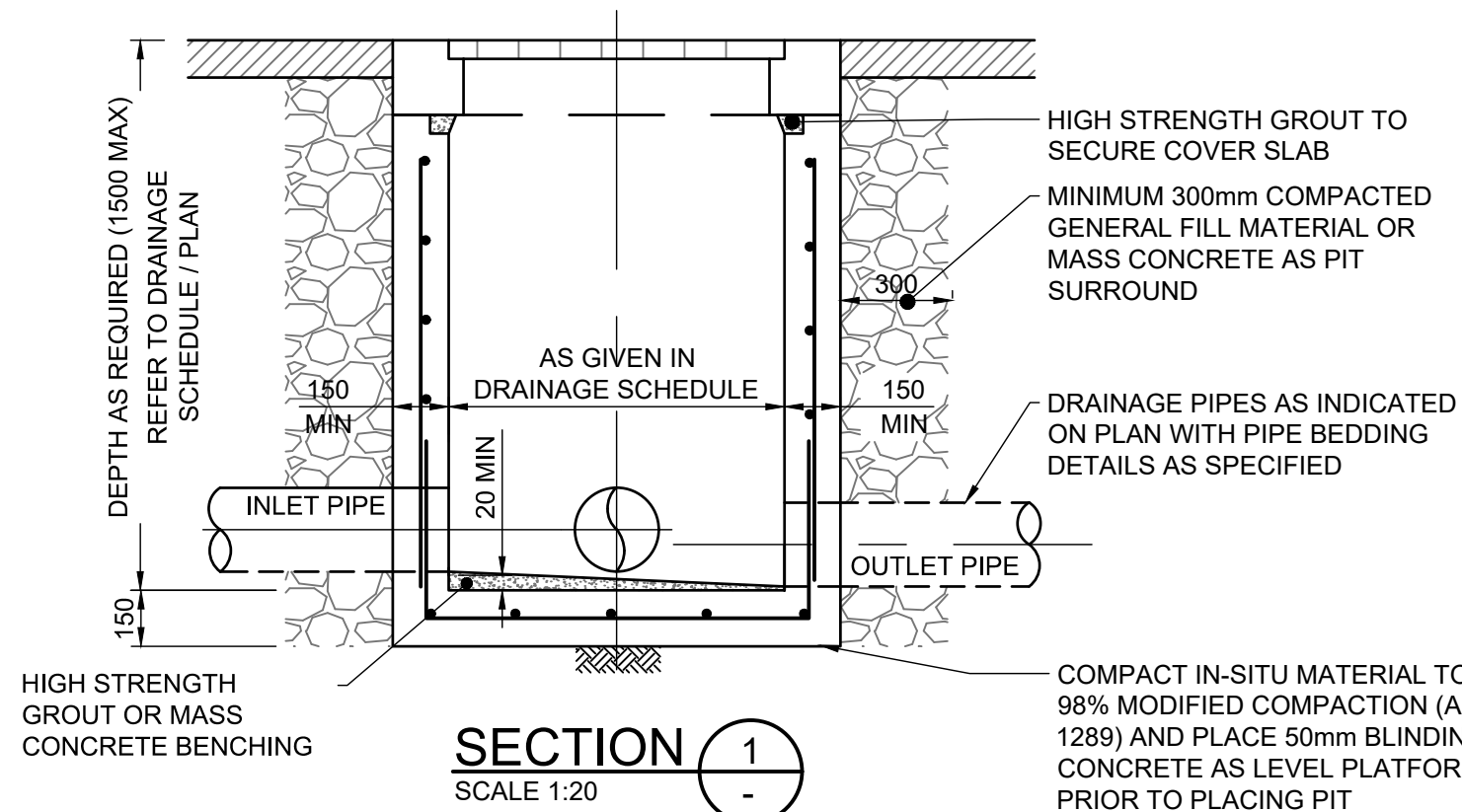
SCALE 1:20
DESIGNER TO
VERIFY EXTENT OF
DETAILING



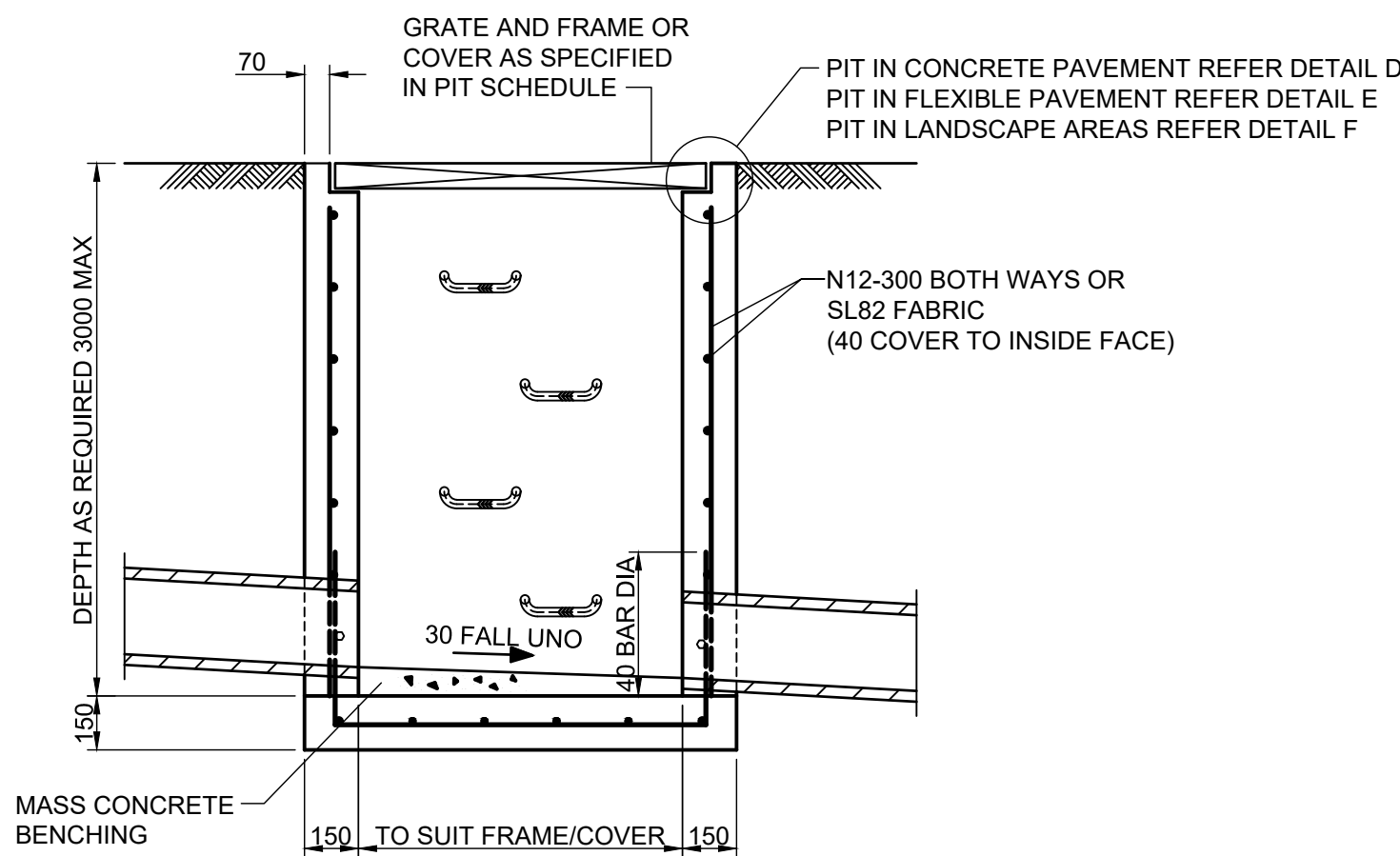
FLOODWAY SUMP PIT DIMENSIONS		
DEPTH OF PIT (D)	X	Y
D<900	600	600
D>900	900	900



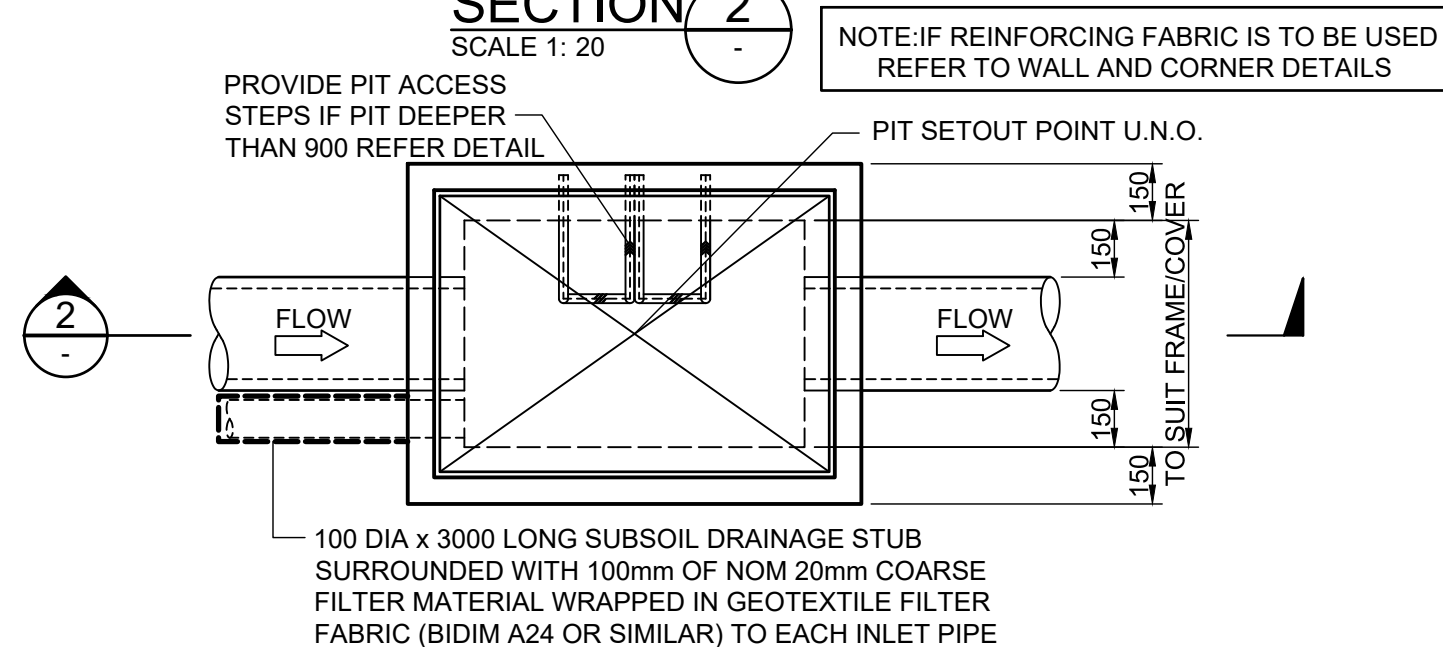
PLAN
SCALE 1:20
LETTERBOX PIT



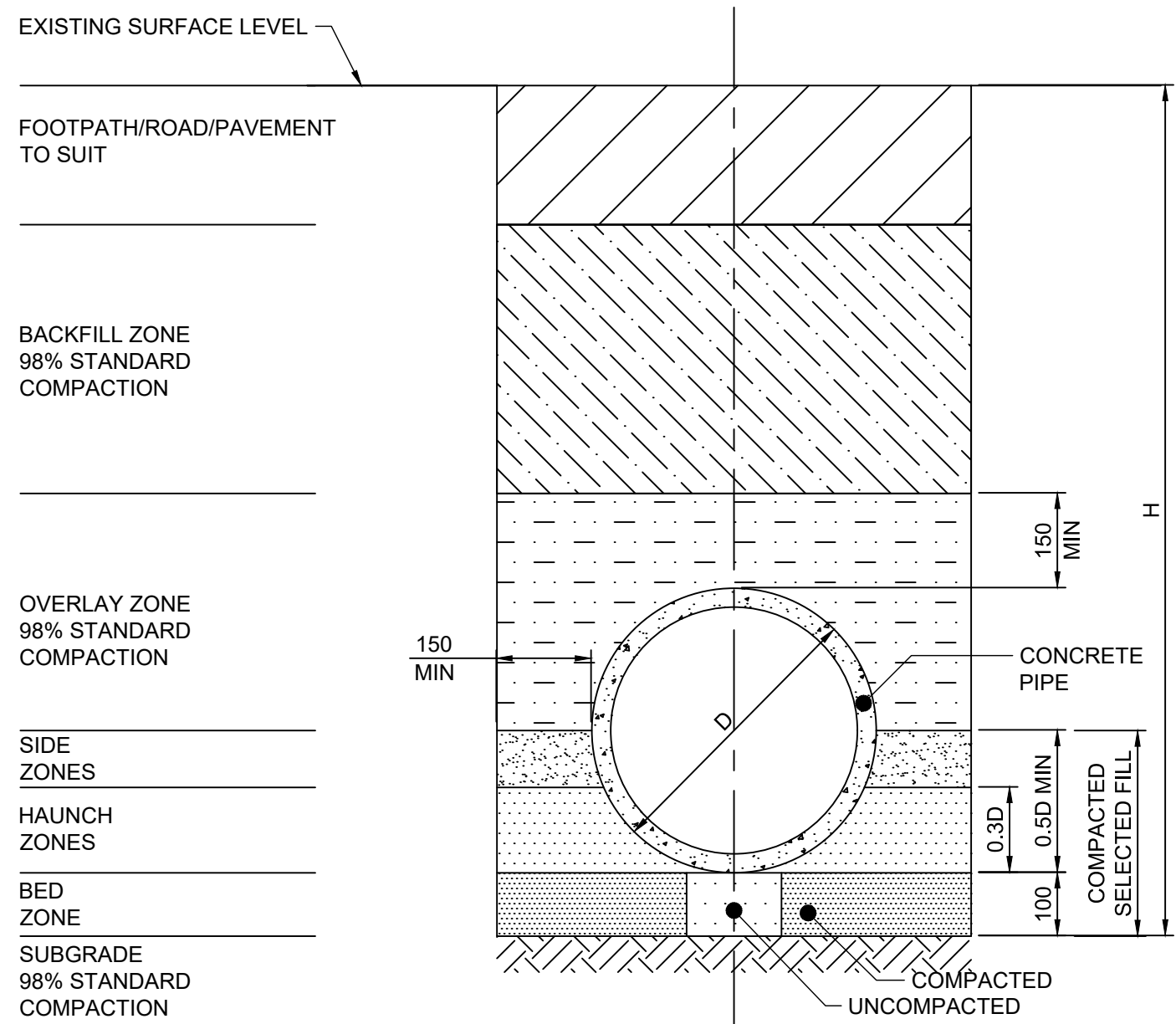
SECTION 1
SCALE 1:20



SECTION 2
SCALE 1:20



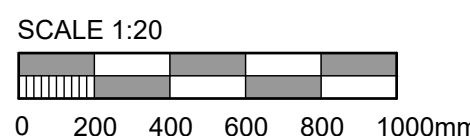
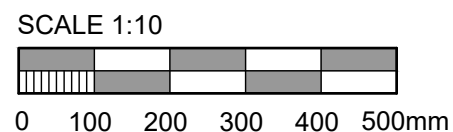
PLAN
SCALE 1:20
IN-SITU REGULAR JUNCTION PIT



TYPICAL TRENCH 'HS' SUPPORT
FOR CONCRETE PIPES

SCALE 1:10

NOTE:
1. TRENCHING AS PER AS3725
2. DRAINAGE PIPE TO BE
MIN. 3750, MAX. SIZE 9000 U.N.O.
REINFORCED CONCRETE PIPE



NOT FOR CONSTRUCTION

Date generated: 11/02/2024 5:14:34 PM U:\TRANSITION\STRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-4101

rev	date	description	dm	ch/k
05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	SCO	PAL
01	10/05/24	ISSUE FOR 50% DESIGN	SCO	PAL

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2081
Australia

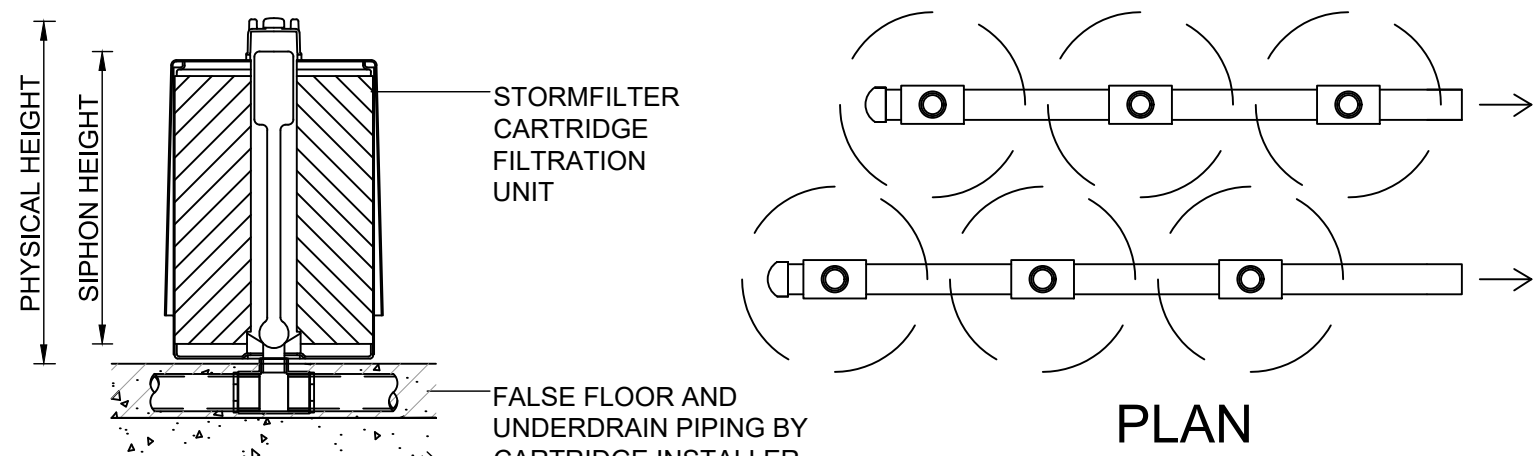
Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT
24 VIEW STREET, CESSNOCK, 2325 NSW	

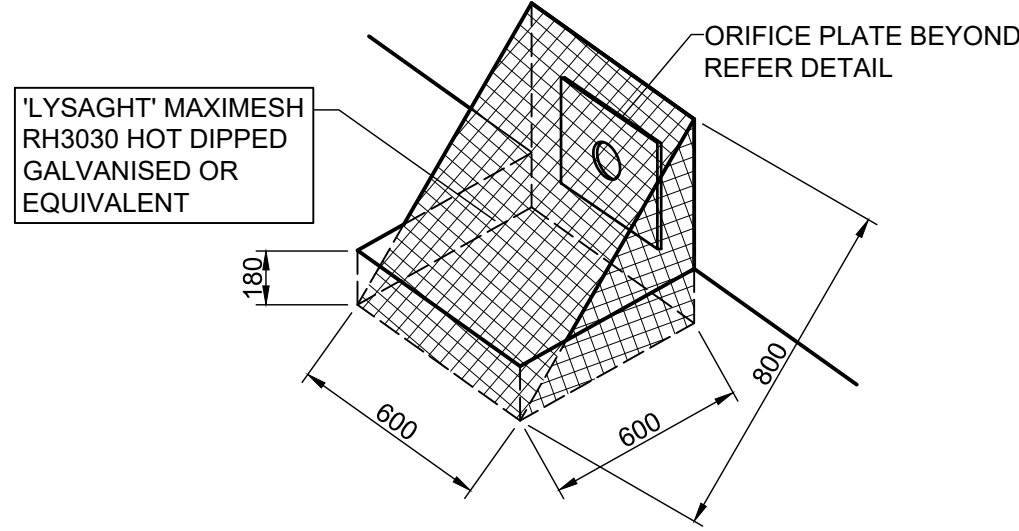
drawing title	STORMWATER DRAINAGE DETAIL SHEET 1
---------------	---------------------------------------

status				FOR INFORMATION ONLY			
scale at A1 AS SHOWN		drawn SCO		checked PAL		approved JUN-24	
project no. 6850		sheet 6850-CV-4101				rev. 05	

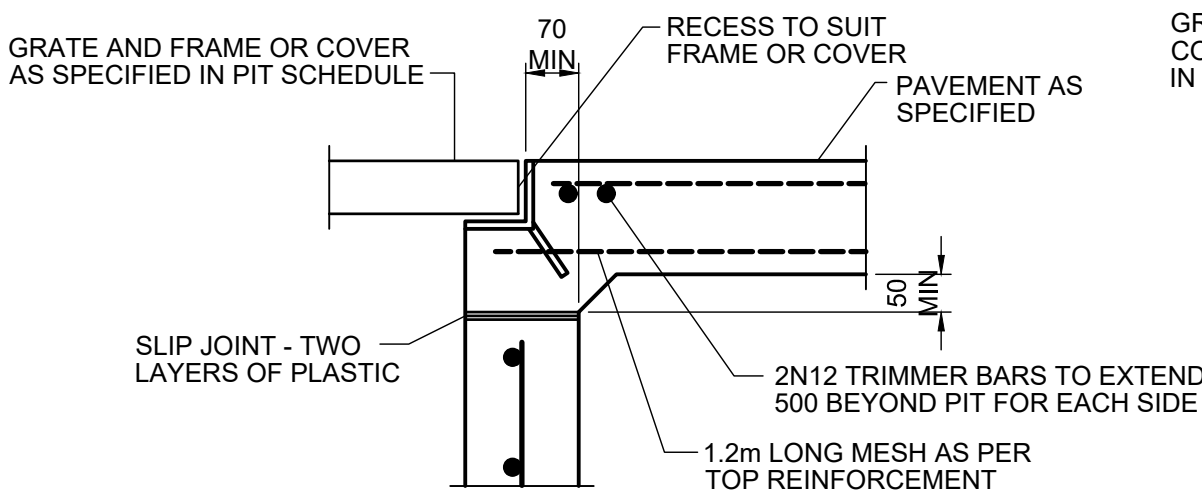


SECTION
TYPICAL CARTRIDGE DETAIL
SCALE 1:50

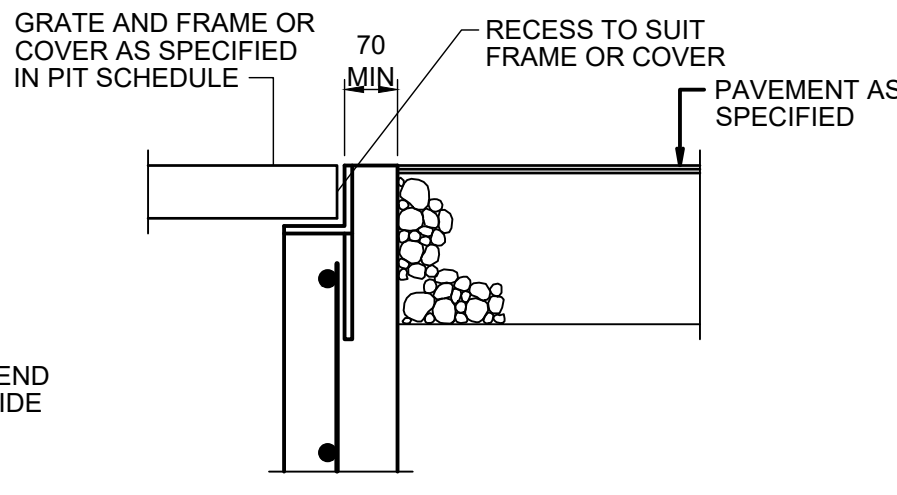
NOTE: CARTRIDGES ARE SHOWN FOR INFORMATION ONLY. REFER TO MANUFACTURER'S SPECIFICATIONS FOR TECHNICAL DETAILS AND SPECIFICATIONS. ALL WATER QUALITY DEVICES REQUIRE MAINTENANCE. REFER TO MANUFACTURER'S MAINTENANCE SPECIFICATIONS AND SCHEDULES.



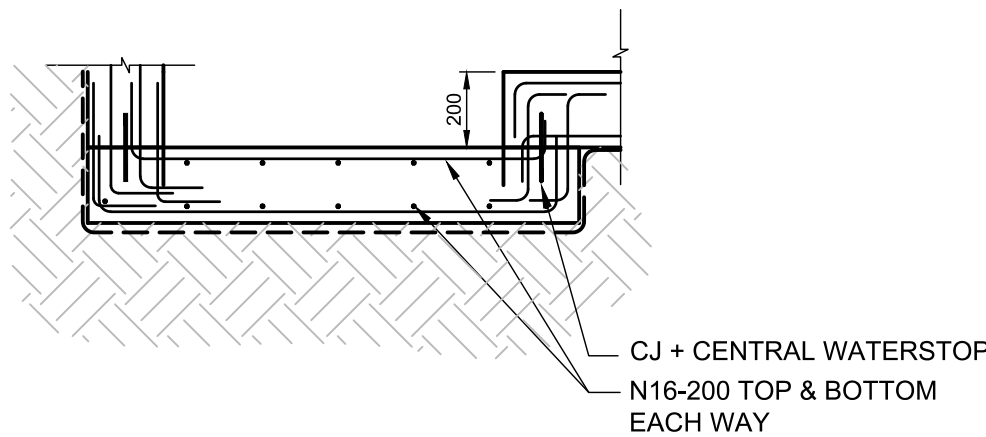
TRASH SCREEN DETAIL
NTS



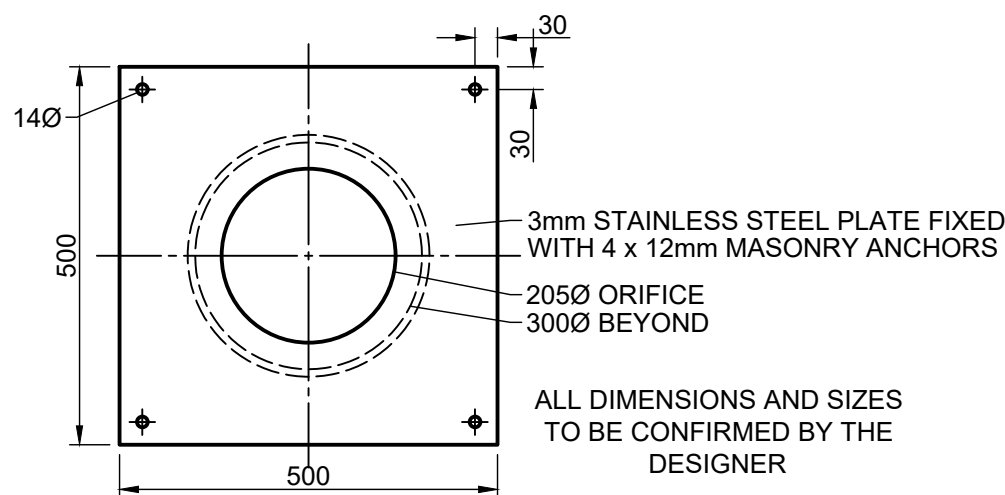
DETAIL D
SCALE 1:10



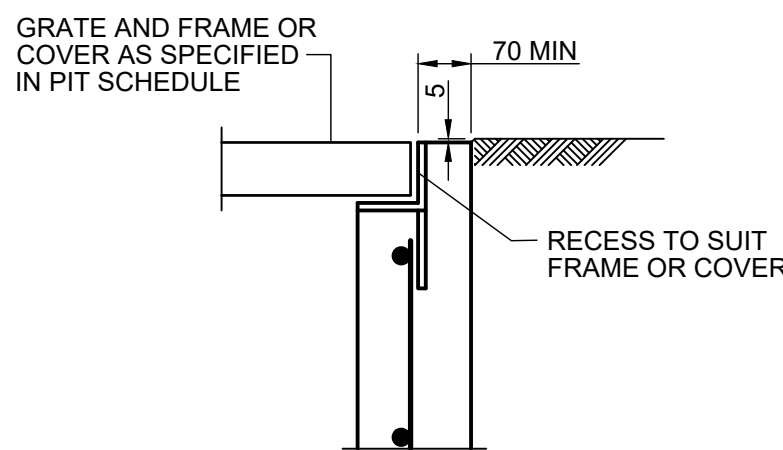
DETAIL E
SCALE 1:10



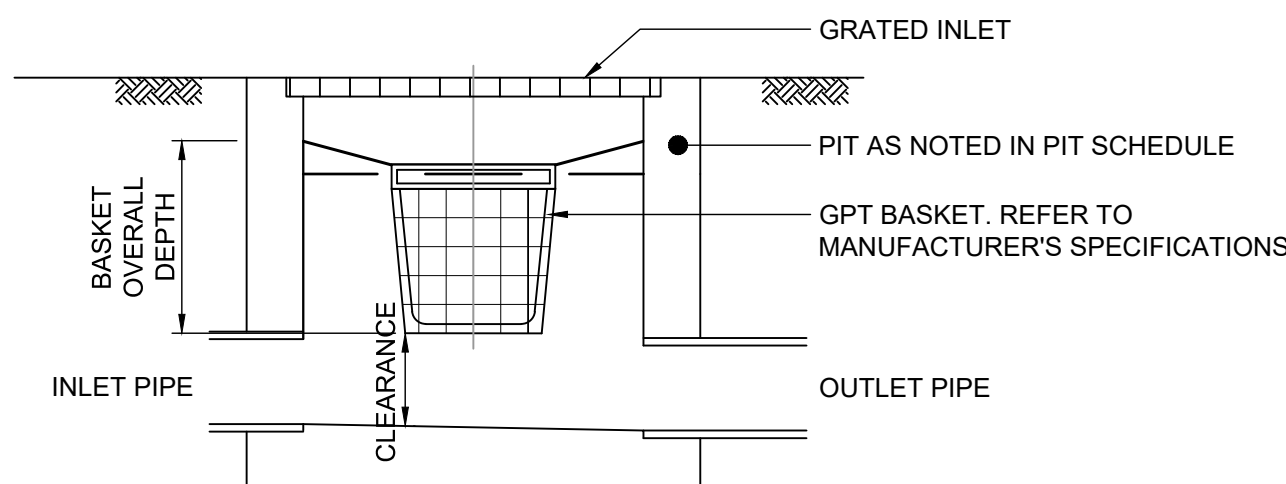
TYPICAL SUMP CORNER DETAIL
SCALE 1:20



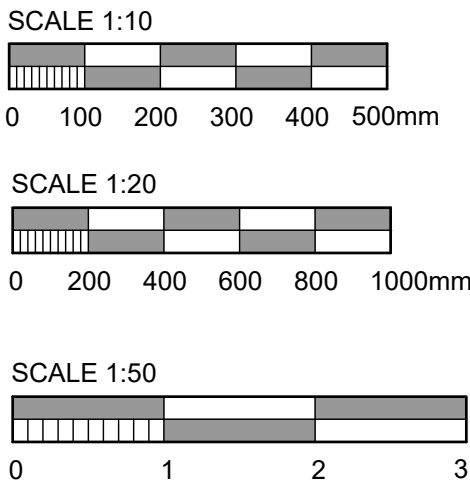
Ø205 ORIFICE PLATE DETAIL
SCALE 1:10



DETAIL F
SCALE 1:10



GROSS POLLUTANT TRAP (GPT)
PIT BASKET INSERT FOR
SURFACE INLET PITS
SCALE: NTS



NOT FOR CONSTRUCTION

Date generated: 11/02/2024 5:15:34 PM | U:\TRANSPORT\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-4102

TO BE PRINTED IN FULL COLOUR

05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	PAL
01	10/05/24	ISSUE FOR 50% DESIGN	SCO	PAL
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

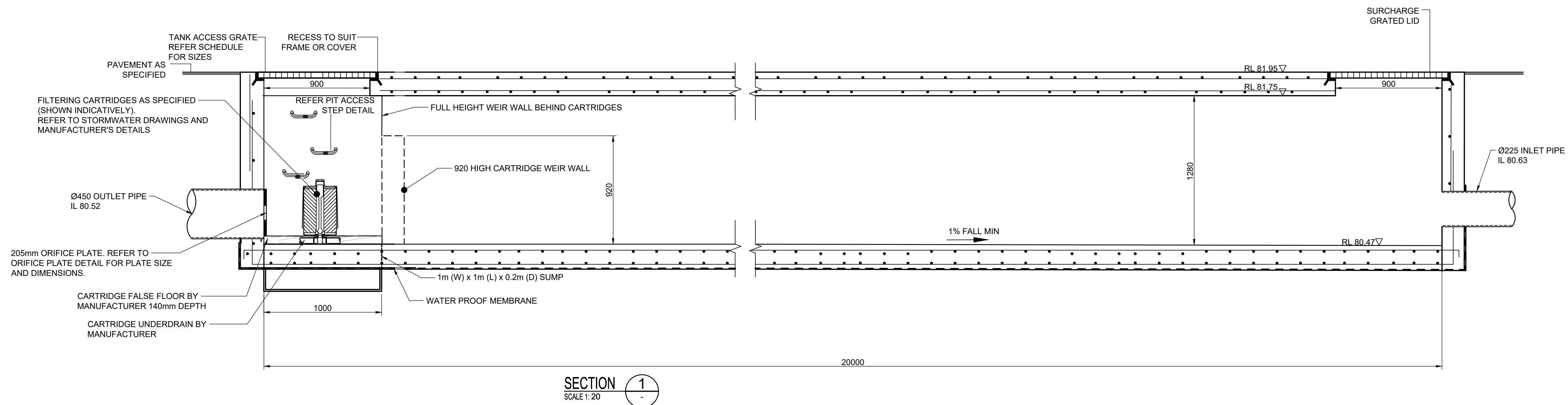
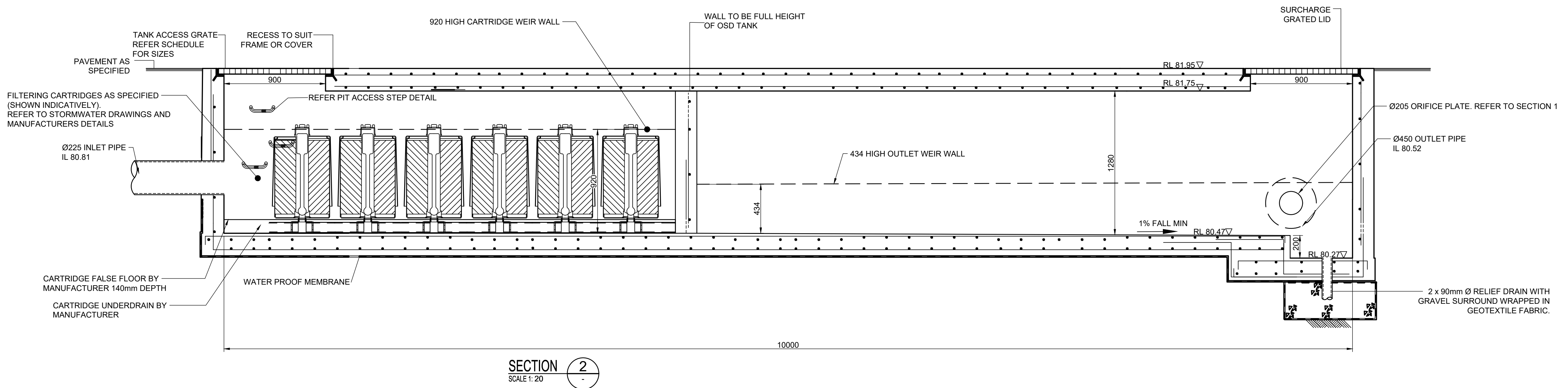
enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT 24 VIEW STREET, CESSNOCK, 2325 NSW
---------	---

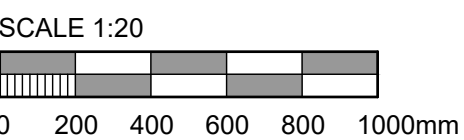
drawing title	STORMWATER DRAINAGE DETAIL SHEET 2
---------------	---------------------------------------

status			
FOR INFORMATION ONLY			
scale at A1 AS SHOWN	drawn SCO	checked PAL	approved JUN-24
project no. 6850	sheet 6850-CV-4102		rev. 05

Date generated: 24/07/2024 10:23:31 PM U:\TRANSPORT\ENSTRUCT\CAD\U-6850\6850-CV-4104



UNDERGROUND ON SITE DETENTION TANK WITH WATER QUALITY CHAMBER SECTION



TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

rev	date	description	dm	ch/k
05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	11/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	PAL
01	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	PAL

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project

**CESSNOCK HOSPITAL
REDEVELOPMENT**

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

**STORMWATER DRAINAGE
DETAIL SHEET 4**

status			
FOR INFORMATION ONLY			
scale at A1 AS SHOWN	drawn ASE	checked PAL	approved JUN-24
project no. 6850	sheet 6850-CV-4104	rev. 05	

FOR CONTINUATION REFER TO 6850-CV-5002

Date generated: 26/07/2024 4:50:08 PM L:\TRANSITION\ENSTRUCT\CAD\1-6800\6850\CIVIL DRAWINGS\6850-CV-5001

TO BE PRINTED IN FULL COLOUR

05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------



enstruct group pty ltd

Level 4, 2 Glen Street
Milsions Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

PAVEMENT PLAN
SHEET 1

status

FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

checked
RGU

approved
JUN-24

project no.
6850

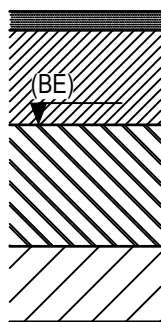
sheet
6850-CV-5001

rev.
05

PAVEMENT LEGEND AND DETAIL
NOTES

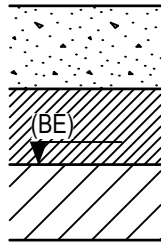
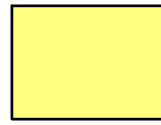
1. Asphaltic concrete shall conform to AS2150 and the specification

PAVEMENT TYPE 1
ASPHALTIC ROAD



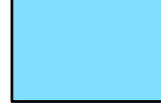
40mm Thickness asphaltic concrete (AC10)
120mm Compacted thickness fine crushed rock (DGB20)
220mm Compacted thickness fine crushed rock (DGS40)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH



110mm Thickness concrete (f'c=25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres
75mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER



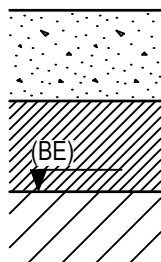
Refer to Structural Engineer detail.

PAVEMENT TYPE 4
LANDSCAPED AREAS



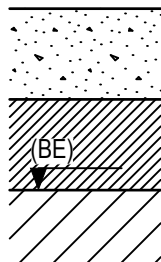
Refer to Landscape Architect details for landscaped areas.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)



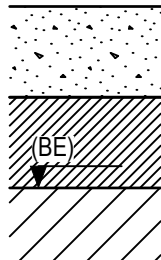
150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 6
CONCRETE PAVEMENT



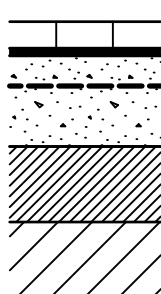
150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 7
CONCRETE PAVEMENT



150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 8



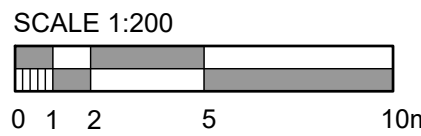
Granites of Australia Adelaide black split face 100x100x100 granite sets* ith10mm mortar joint on 20mm mortar bed on 170mm Thickness concrete (f'c=32MPa) with F72 fabric top and bottom, 50 cover
100mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

BUILDING ENVELOPE



Proposed building envelope extent

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN



NOT FOR CONSTRUCTION

PAVEMENT LEGEND AND DETAIL

NOTES

1. ASPHALTIC CONCRETE SHALL CONFORM TO AS2150 AND THE SPECIFICATION

PAVEMENT TYPE 1
ASPHALTIC ROAD

P1



40MM THICKNESS ASPHALTIC CONCRETE (AC10)

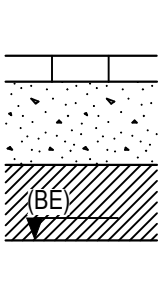
120MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

220MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGS40)

260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH

P2



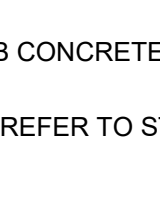
PAVERS TO CONFIRM WITH LANDSCAPE ARCHITECT IF REQUIRED

110MM THICKNESS CONCRETE (F'C=25MPA) WITH EXPANSION JOINTS AT MAX 6.0M CENTRES AND WEAKENED PLANE JOINTS AT MAX 1.5M CENTRES

75MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER

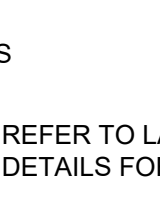
P3



REFER TO STRUCTURAL ENGINEER DETAIL.

PAVEMENT TYPE 4
LANDSCAPED AREAS

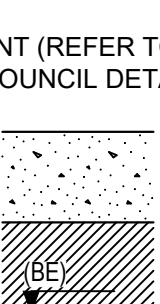
P4



REFER TO LANDSCAPE ARCHITECT DETAILS FOR LANDSCAPED AREAS.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)

P5



150MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.

150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 6
CONCRETE PAVEMENT

P6



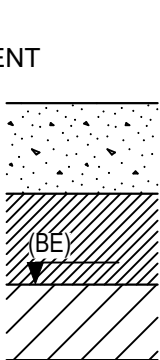
180MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.

150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 7
CONCRETE PAVEMENT

P7



150MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.

150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 8

P8



GRANITES OF AUSTRALIA ADELAIDE BLACK SPLIT FACE 100X100X100 GRANITE SETS* ITH10MM MORTAR JOINT ON 20MM MORTAR BED ON

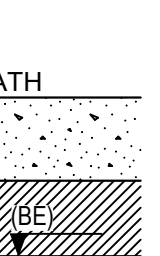
170MM THICKNESS CONCRETE (F'C=32MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER

100MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 9
COURTYARD PEDESTRIAN FOOTPATH

P9

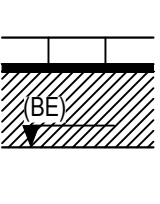


110MM THICKNESS CONCRETE (F'C=25MPA) WITH EXPANSION JOINTS AT MAX 6.0M CENTRES AND WEAKENED PLANE JOINTS AT MAX 1.5M CENTRES

75MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 10

P10

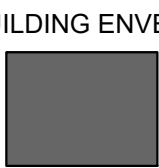


RECYCLED BRICKS AS SPECIFIED BY LANDSCAPE ARCHITECT ON

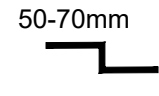
50 mm SAND BEDDING

150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

BUILDING ENVELOPE

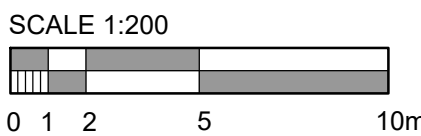


PROPOSED BUILDING ENVELOPE EXTENT

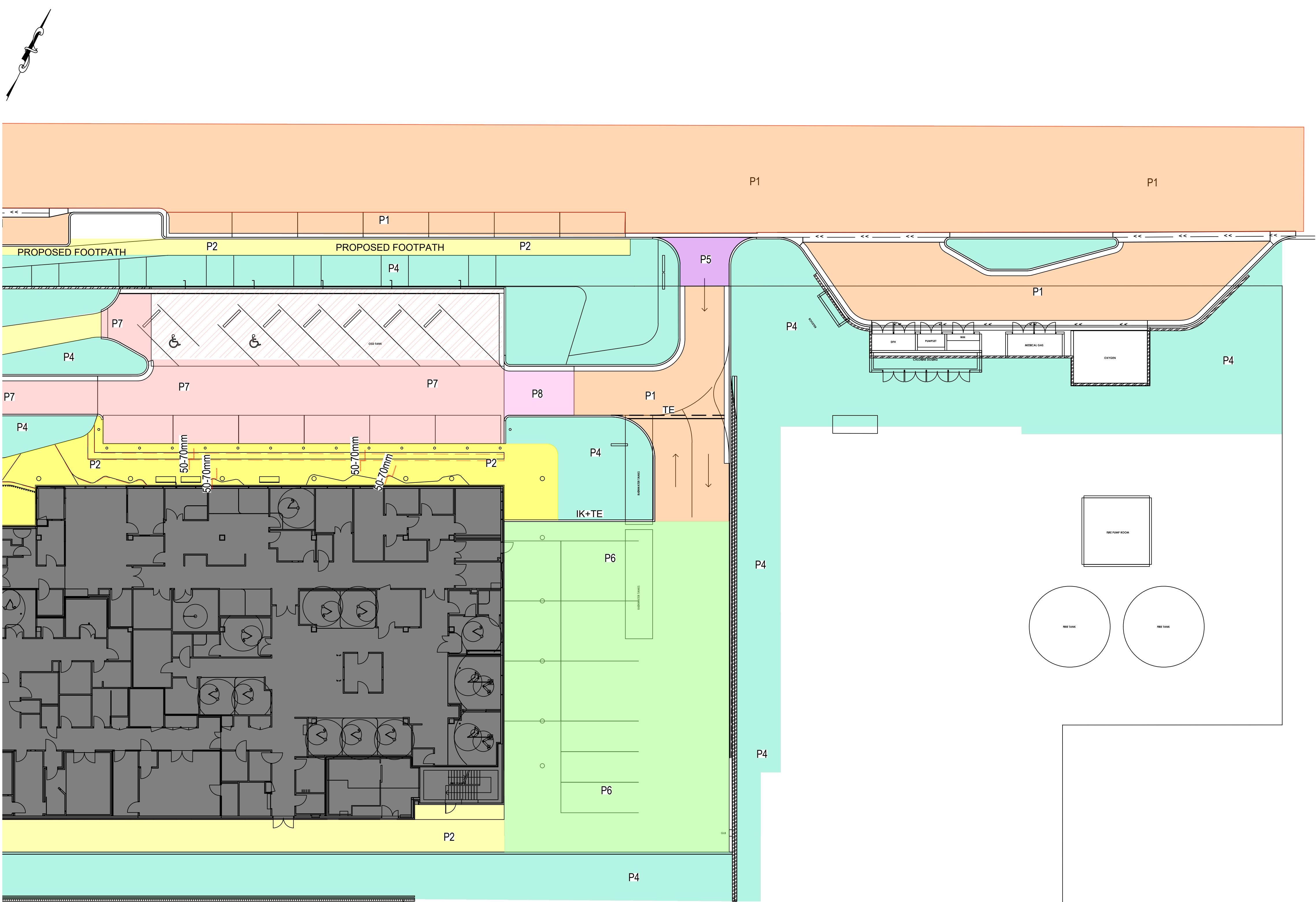


CONCRETE SLAB SETDOWN 50-70mm TO SUIT PAVERS PER LANDSCAPE ARCHITECT SPECS.

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN



NOT FOR CONSTRUCTION



FOR CONTINUATION REFER TO 6850-CV-5002

FOR CONTINUATION REFER TO 6850-CV-5003

06	04/10/24	ISSUE FOR 80% DD	BEJ	RGU
05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

07	18/10/24	ISSUE FOR REF	RGU	RGU
rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au



project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

PAVEMENT PLAN
SHEET 1

(JURD STREET WORKS OPTION 1)

status

FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

checked
RGU

approved
JUN-24

project no.
6850

sheet
6850-CV-5001

rev.
07

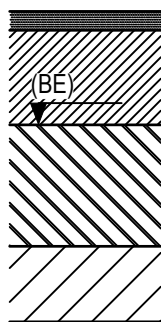
Date generated: 26/08/2024 5:20:28 PM U:\TRANSITION\STRUCT\CAD\U-6800\6850\CIVIL DRAWINGS\6850-CV-5002



PAVEMENT LEGEND AND DETAIL NOTES

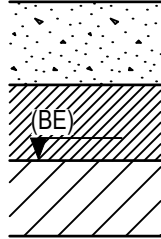
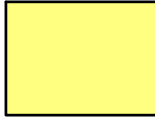
1. Asphaltic concrete shall conform to AS2150 and the specification

PAVEMENT TYPE 1
ASPHALTIC ROAD



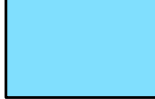
40mm Thickness asphaltic concrete (AC10)
120mm Compacted thickness fine crushed rock (DGB20)
220mm Compacted thickness fine crushed rock (DGS40)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH



110mm Thickness concrete (f'c=25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres
75mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER



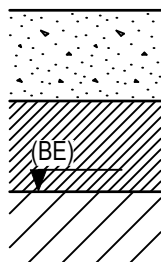
Refer to Structural Engineer detail.

PAVEMENT TYPE 4
LANDSCAPED AREAS



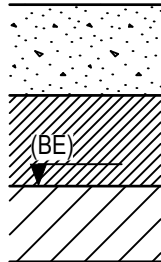
Refer to Landscape Architect details for landscaped areas.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)



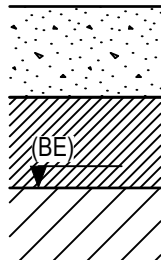
150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 6
CONCRETE PAVEMENT



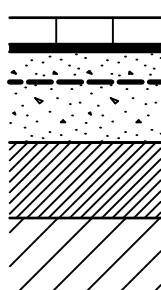
150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 7
CONCRETE PAVEMENT



150mm Thickness concrete (f'c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 8



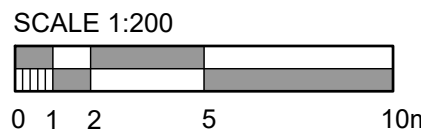
Granites of Australia Adelaide black split face 100x100x100 granite sets* ith10mm mortar joint on 20mm mortar bed on 170mm Thickness concrete (f'c=32MPa) with F72 fabric top and bottom, 50 cover
100mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

BUILDING ENVELOPE



Proposed building envelope extent

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN



NOT FOR CONSTRUCTION

05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

rev	date	description	dm	ch/k
-----	------	-------------	----	------

enstruct group pty ltd

Level 4, 2 Glen Street
Milsions Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

PAVEMENT PLAN
SHEET 2

status

FOR INFORMATION ONLY

scale at A1: 1:200

drawn: ASE

checked: RGU

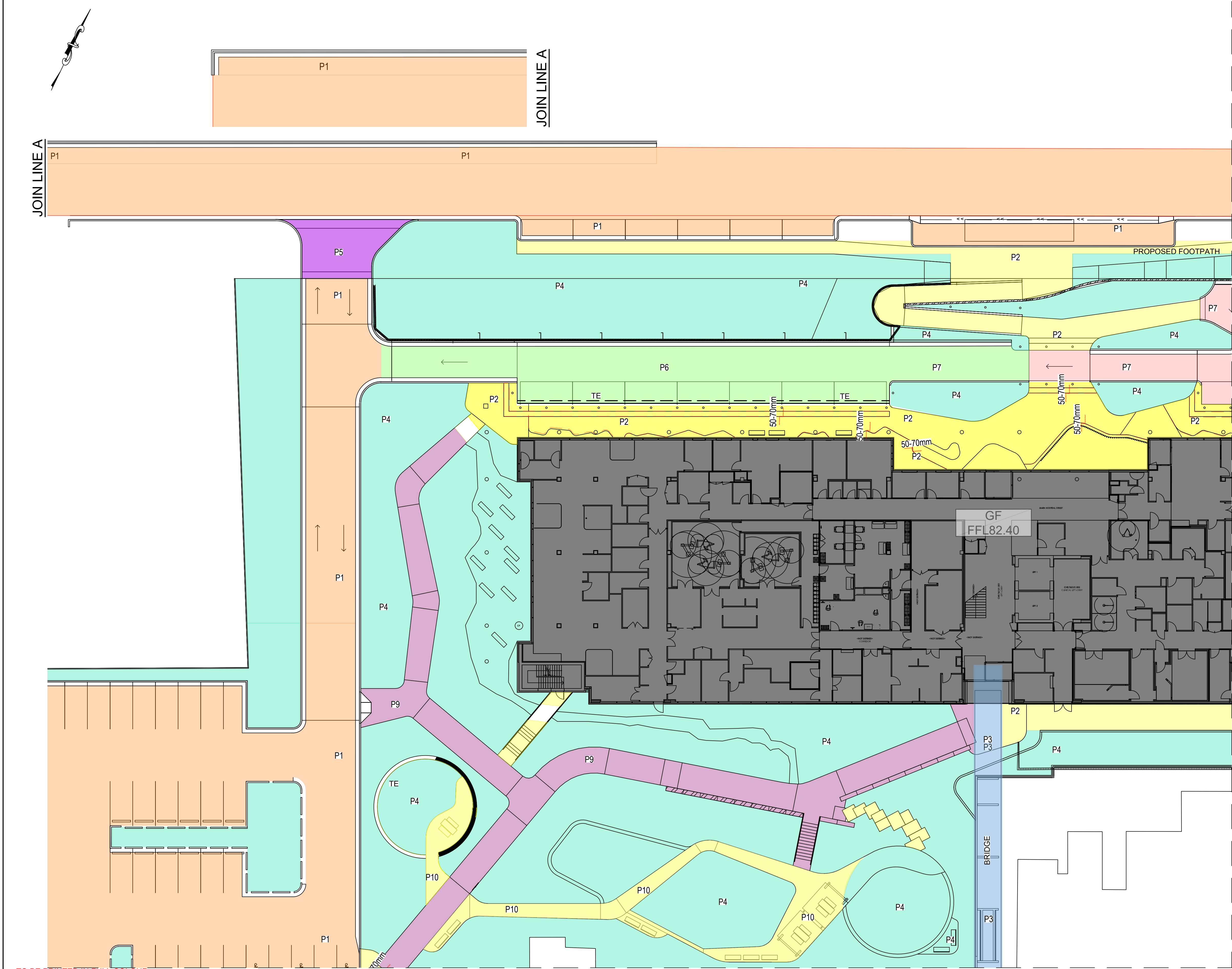
approved

project no: 6850

sheet: 6850-CV-5002

rev: 05

Date generated: 18/10/2024 4:34:04 PM I:\CORP-FRM\NET\TRANSITION\INSTRUC\T\CDU-6850\6850-CV\DRAWINGS\6850-CV-5002



PAVEMENT LEGEND AND DETAIL

NOTES

1. ASPHALTIC CONCRETE SHALL CONFORM TO AS2150 AND THE SPECIFICATION

PAVEMENT TYPE 1
ASPHALTIC ROAD

P1

40MM THICKNESS ASPHALTIC CONCRETE (AC10)
120MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)
220MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGS40)
260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH

P2

PAVERS TO CONFIRM WITH LANDSCAPE ARCHITECT IF REQUIRED
110MM THICKNESS CONCRETE (F'C=25MPA) WITH EXPANSION JOINTS AT MAX 6.0M CENTRES AND WEAKENED PLANE JOINTS AT MAX 1.5M CENTRES
75MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER

P3

REFER TO STRUCTURAL ENGINEER DETAIL.

PAVEMENT TYPE 4
LANDSCAPED AREAS

P4

REFER TO LANDSCAPE ARCHITECT DETAILS FOR LANDSCAPED AREAS.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)

P5

150MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.
150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 6
CONCRETE PAVEMENT

P6

180MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.
150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)
260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 7
CONCRETE PAVEMENT

P7

150MM THICKNESS CONCRETE (F'C=30MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER.
150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)
260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 8

P8

GRANITES OF AUSTRALIA ADELAIDE BLACK SPLIT FACE 100X100X100 GRANITE SETS' ITH10MM MORTAR JOINT ON 20MM MORTAR BED ON
170MM THICKNESS CONCRETE (F'C=32MPA) WITH F72 FABRIC TOP AND BOTTOM, 50 COVER
100MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)
260MM - 300MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN.

PAVEMENT TYPE 9
COURTYARD PEDESTRIAN FOOTPATH

P9

110MM THICKNESS CONCRETE (F'C=25MPA) WITH EXPANSION JOINTS AT MAX 6.0M CENTRES AND WEAKENED PLANE JOINTS AT MAX 1.5M CENTRES
75MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

PAVEMENT TYPE 10

P10

RECYCLED BRICKS AS SPECIFIED BY LANDSCAPE ARCHITECT ON
50 mm SAND BEDDING
150MM COMPACTED THICKNESS FINE CRUSHED ROCK (DGB20)

BUILDING ENVELOPE

PROPOSED BUILDING ENVELOPE EXTENT

50-70mm

CONCRETE SLAB SETDOWN 50-70mm TO SUIT PAVERS PER LANDSCAPE ARCHITECT SPECS.

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN

SCALE 1:200

0 1 2 5 10m

NOT FOR CONSTRUCTION

06	04/10/24	ISSUE FOR 80% DD	BEJ	RGU
05	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
04	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
03	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU
02	07/06/24	ISSUE FOR 80% SCHEMATIC DESIGN	ASE	RGU
01	10/05/24	ISSUE FOR 50% SCHEMATIC DESIGN	ASE	RGU
rev	date	description	dm	ch/k

07	18/10/24	ISSUE FOR REF	RGU	RGU
rev	date	description	dm	ch/k

enstruct group pty ltd
Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project
CESSNOCK HOSPITAL REDEVELOPMENT
24 VIEW STREET, CESSNOCK, 2325 NSW

drawing title
PAVEMENT PLAN SHEET 2
(JURD STREET WORKS OPTION 1)

status
FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

checked
RGU

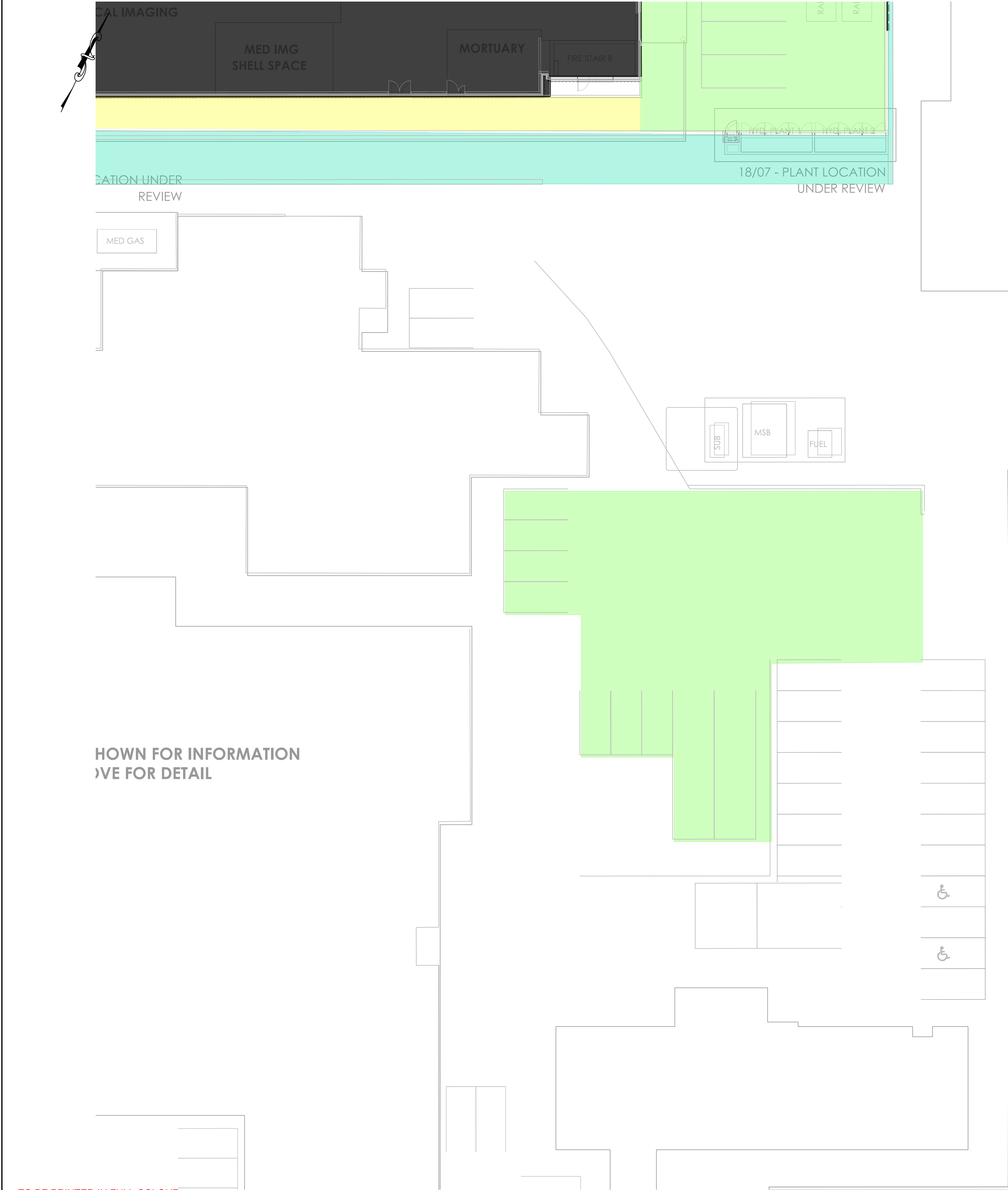
approved

project no.
6850

sheet
6850-CV-5002

rev.
07

Date generated: 26/07/2024 4:52:08 PM L:\TRANSITION\STRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-5003



PAVEMENT LEGEND AND DETAIL NOTES

1. Asphaltic concrete shall conform to AS2150 and the specification

PAVEMENT TYPE 1
ASPHALTIC ROAD

40mm Thickness asphaltic concrete (AC10)
120mm Compacted thickness fine crushed rock (DGB20)
220mm Compacted thickness fine crushed rock (DGS40)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH

110mm Thickness concrete (f_c=25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres
75mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER

Refer to Structural Engineer detail.

PAVEMENT TYPE 4
LANDSCAPED AREAS

Refer to Landscape Architect details for landscaped areas.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)

150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 6
CONCRETE PAVEMENT

150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 7
CONCRETE PAVEMENT

150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 8

Granites of Australia Adelaide black split face 100x100x100 granite sets* ith10mm mortar joint on 20mm mortar bed on 170mm Thickness concrete (f_c=32MPa) with F72 fabric top and bottom, 50 cover
100mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

BUILDING ENVELOPE

Proposed building envelope extent

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN

SCALE 1:200

0 1 2 5 10m

NOT FOR CONSTRUCTION

03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	

enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project

CESSNOCK HOSPITAL REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325 NSW

drawing title

PAVEMENT PLAN SHEET 3

status

FOR INFORMATION ONLY

scale at A1

1:200

drawn

ASE

checked

RGU

approved

project no.

6850

sheet

6850-CV-5003

rev.

03

Date generated: 26/07/2024 4:59:08 PM L:\TRANSITION\ENSTRUCT\ACT\AU-6800\6850\CIVIL DRAWINGS\6850-CV-5004

TO BE PRINTED IN FULL COLOUR

rev	date	description	dm	ch/k
03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU

rev	date	description	dm	ch/k



enstruct group pty ltd

Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au



project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

PAVEMENT PLAN
SHEET 4

status

FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

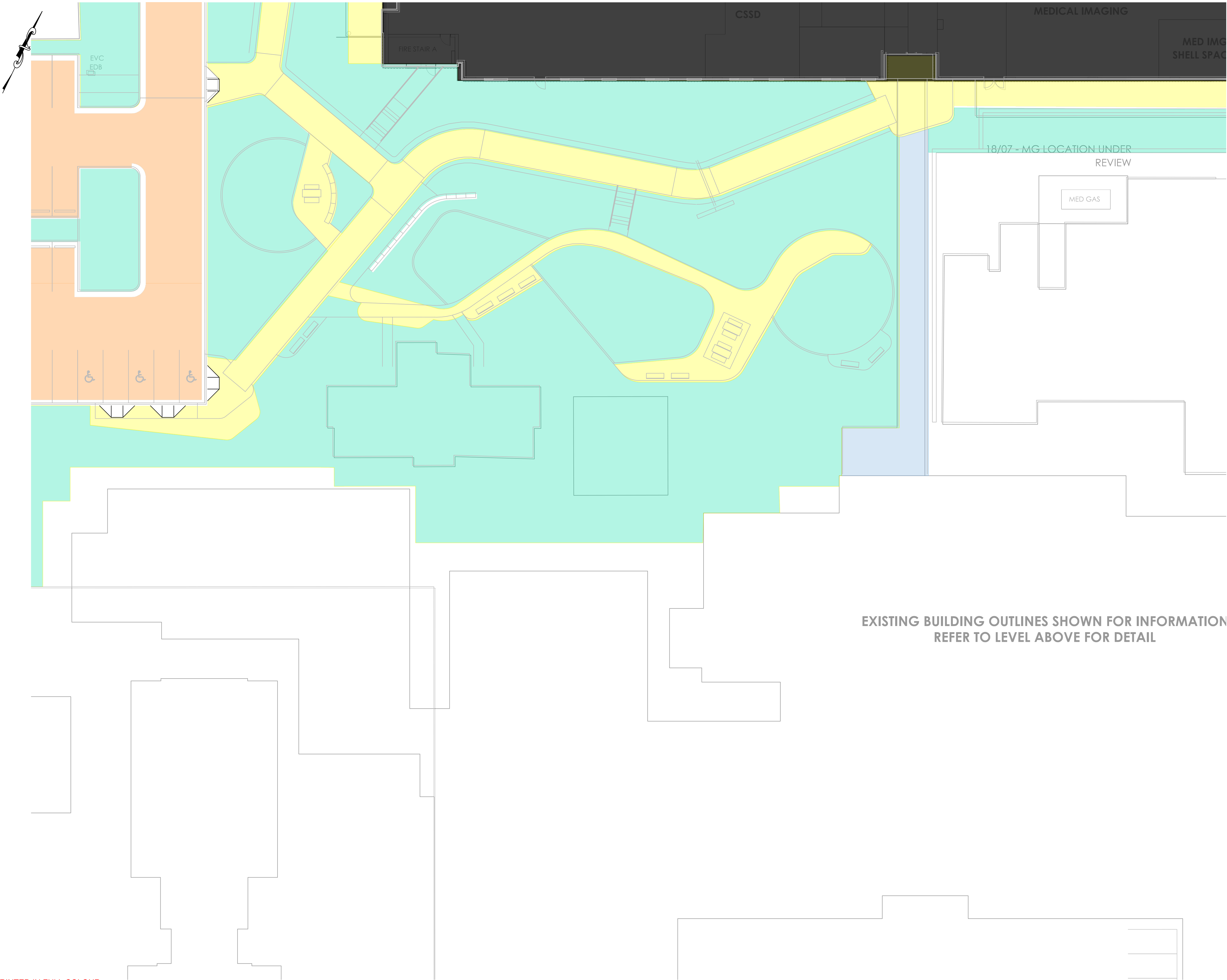
checked
RGU

approved

project no.
6850

sheet
6850-CV-5004

rev.
03



PAVEMENT LEGEND AND DETAIL
NOTES

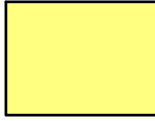
1. Asphaltic concrete shall conform to AS2150 and the specification

PAVEMENT TYPE 1
ASPHALTIC ROAD



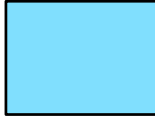
40mm Thickness asphaltic concrete (AC10)
120mm Compacted thickness fine crushed rock (DGB20)
220mm Compacted thickness fine crushed rock (DGS40)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH



110mm Thickness concrete (f_c=25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres
75mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER



Refer to Structural Engineer detail.

PAVEMENT TYPE 4
LANDSCAPED AREAS



Refer to Landscape Architect details for landscaped areas.

PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)



150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 6
CONCRETE PAVEMENT



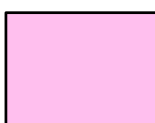
150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 7
CONCRETE PAVEMENT



150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

PAVEMENT TYPE 8



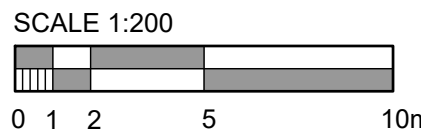
Granites of Australia Adelaide black split face 100x100x100 granite sets* ith10mm mortar joint on 20mm mortar bed on 170mm Thickness concrete (f_c=32MPa) with F72 fabric top and bottom, 50 cover
100mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.

BUILDING ENVELOPE



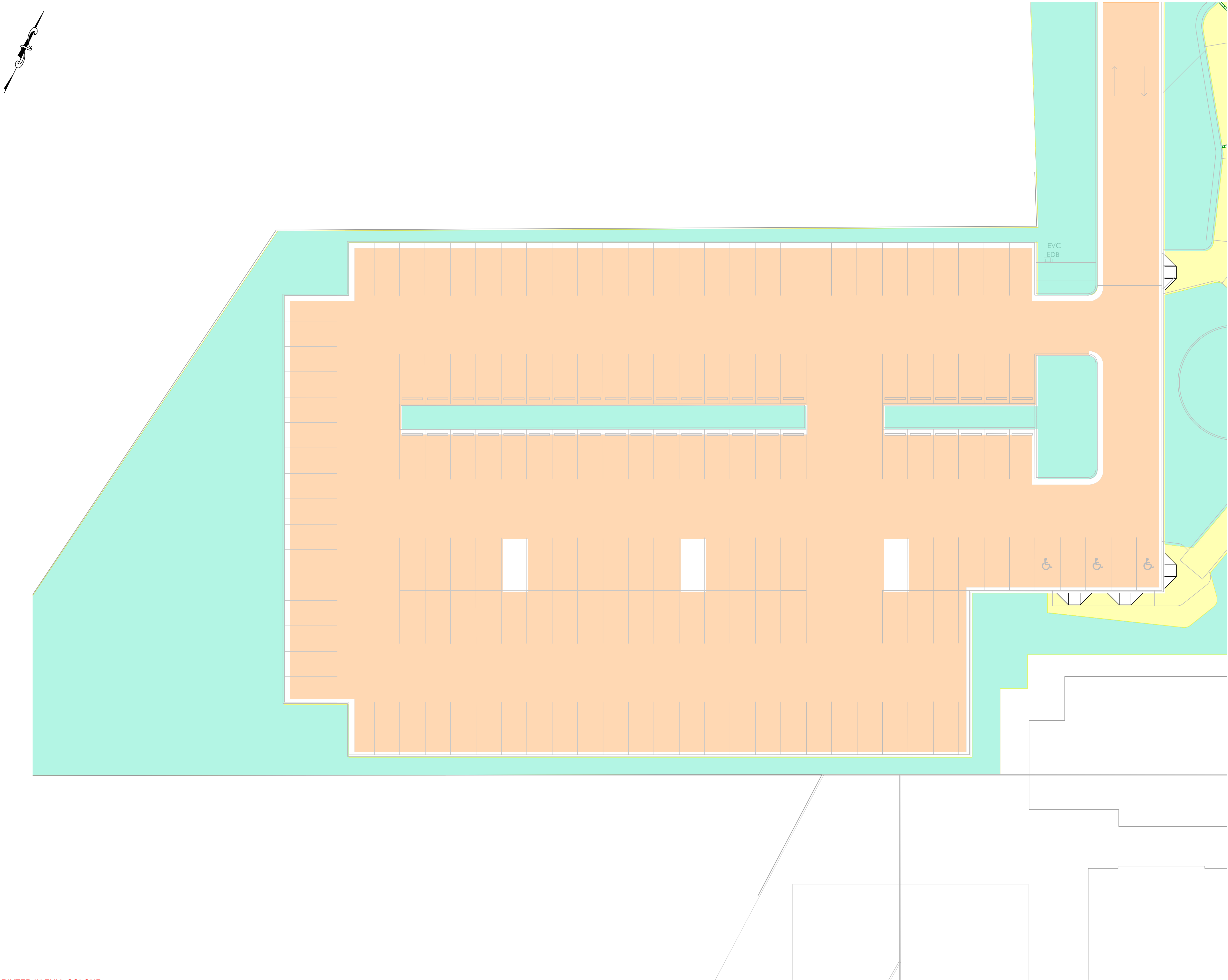
Proposed building envelope extent

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN



NOT FOR CONSTRUCTION

Date generated: 26/07/2024 4:37:43 PM U:\TRANSITION\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-5005



PAVEMENT LEGEND AND DETAIL NOTES

1. Asphaltic concrete shall conform to AS2150 and the specification

- PAVEMENT TYPE 1
ASPHALTIC ROAD

40mm Thickness asphaltic concrete (AC10)
120mm Compacted thickness fine crushed rock (DGB20)
220mm Compacted thickness fine crushed rock (DGS40)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- PAVEMENT TYPE 2
PEDESTRIAN FOOTPATH

110mm Thickness concrete (f_c=25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres
75mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- PAVEMENT TYPE 3
OSD/SERVICES SLAB CONCRETE COVER

Refer to Structural Engineer detail.
- PAVEMENT TYPE 4
LANDSCAPED AREAS

Refer to Landscape Architect details for landscaped areas.
- PAVEMENT TYPE 5
DRIVEWAY PAVEMENT (REFER TO DRAWINGS 6850-CV-3101 AND 6850-CV-3102 FOR COUNCIL DETAILS)

150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- PAVEMENT TYPE 6
CONCRETE PAVEMENT

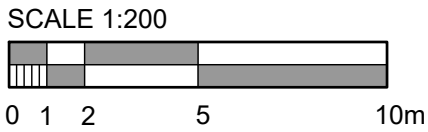
150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- PAVEMENT TYPE 7
CONCRETE PAVEMENT

150mm Thickness concrete (f_c=30MPa) with F72 Fabric top and bottom, 50 cover.
150mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- PAVEMENT TYPE 8

Granites of Australia Adelaide black split face 100x100x100 granite sets* ith10mm mortar joint on 20mm mortar bed on 170mm Thickness concrete (f_c=32MPa) with F72 fabric top and bottom, 50 cover
100mm Compacted thickness fine crushed rock (DGB20)
260mm - 300mm Lime stabilisation layer to achieve CBR 6% Min.
- BUILDING ENVELOPE

Proposed building envelope extent

NOTE:
EACH TYPE OF PAVEMENT REQUIRES A MINIMUM 260 MM LIME STABILISATION LAYER TO ACHIEVE CBR 6% MIN



NOT FOR CONSTRUCTION

TO BE PRINTED IN FULL COLOUR

rev	date	description	dm	ch/k
03	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU
02	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU
01	26/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU

rev	date	description	dm	ch/k

enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

project

CESSNOCK HOSPITAL
REDEVELOPMENT

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title

PAVEMENT PLAN
SHEET 5

status

FOR INFORMATION ONLY

scale at A1
1:200

drawn
ASE

checked
RGU

approved

project no.
6850

sheet
6850-CV-5005

rev.
03

Date generated: 3/05/2024 10:04:31 AM | U:\TRANSPORT\ENSTRUCT\CAD\U-6800\6850\CIVIL\DRAWINGS\6850-CV-6001

TO BE PRINTED IN FULL COLOUR

04	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
03	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
02	29/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
01	07/06/24	ISSUE FOR 80% SD	ASE	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Milsons Point NSW 2061
Australia

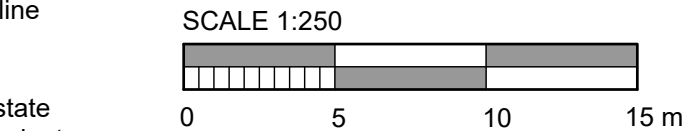
Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

enstruct

project	CESSNOCK HOSPITAL REDEVELOPMENT
	24 VIEW STREET, CESSNOCK, 2325 NSW

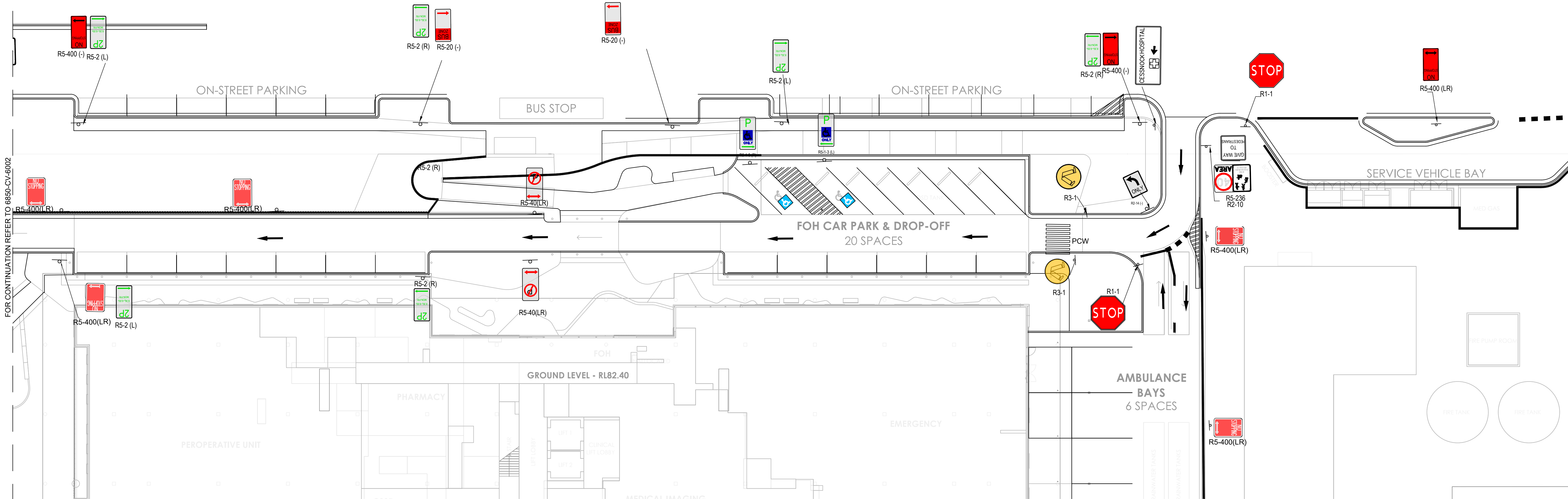
drawing title	SIGNAGE AND LINEMARKING SHEET 1
---------------	------------------------------------

status	FOR INFORMATION ONLY
scale at A1	1:250
drawn	ASE
checked	RGU
approved	
project no.	6850
sheet	6850-CV-6001
rev.	04



NOTE
Line marking to be in accordance with AS1742.2 and state
government standards/delineation guidelines. All redundant
line marking is to be removed.

NOT FOR CONSTRUCTION



LEGEND

- E1 Edge line type e1
- E5 Edge line type e5
- BB Barrier line
- TB Holding line
- TF Stop line
- C1 Continuity line
- T1 Turn line
- S1 Separation line type s1
- S2 Separation line type s2
- L1 Lane line type l1
- B1 Bike lane line
- PCW Signalised pedestrian crossing
- Urban arrow type UA1
- Urban arrow type UA3 (L OR R)
- Urban arrow type UA4 (L OR R)
- Proposed sign pole
- Existing sign to be retained
- Existing sign to be removed
- Proposed sign
- E7 Off-road edge line
- S4 Off-road continuous separation line
- S5 Off-road broken separation line

Date generated: 2025/03/19 PM 1:13:13 L:\TRANSPORT\STRUCT\CAD\1-6850\650\CV\DRAWINGS\650-CV-6002

TO BE PRINTED IN FULL COLOUR

04	03/09/24	ISSUE FOR REF REVIEW	RGU	RGU	
03	02/08/24	ISSUE FOR 100% SCHEMATIC DESIGN	RGU	RGU	
02	29/07/24	ISSUE FOR 100% SCHEMATIC DESIGN	BEJ	RGU	
01	07/06/24	ISSUE FOR 80% SD	ASE	RGU	
rev	date	description	dm	ch/k	

rev	date	description	dm	ch/k	



enstruct group pty ltd

Level 4, 2 Glen Street
Mills Point NSW 2061
Australia

Telephone (02) 8904 1444
Facsimile (02) 8904 1555
www.enstruct.com.au

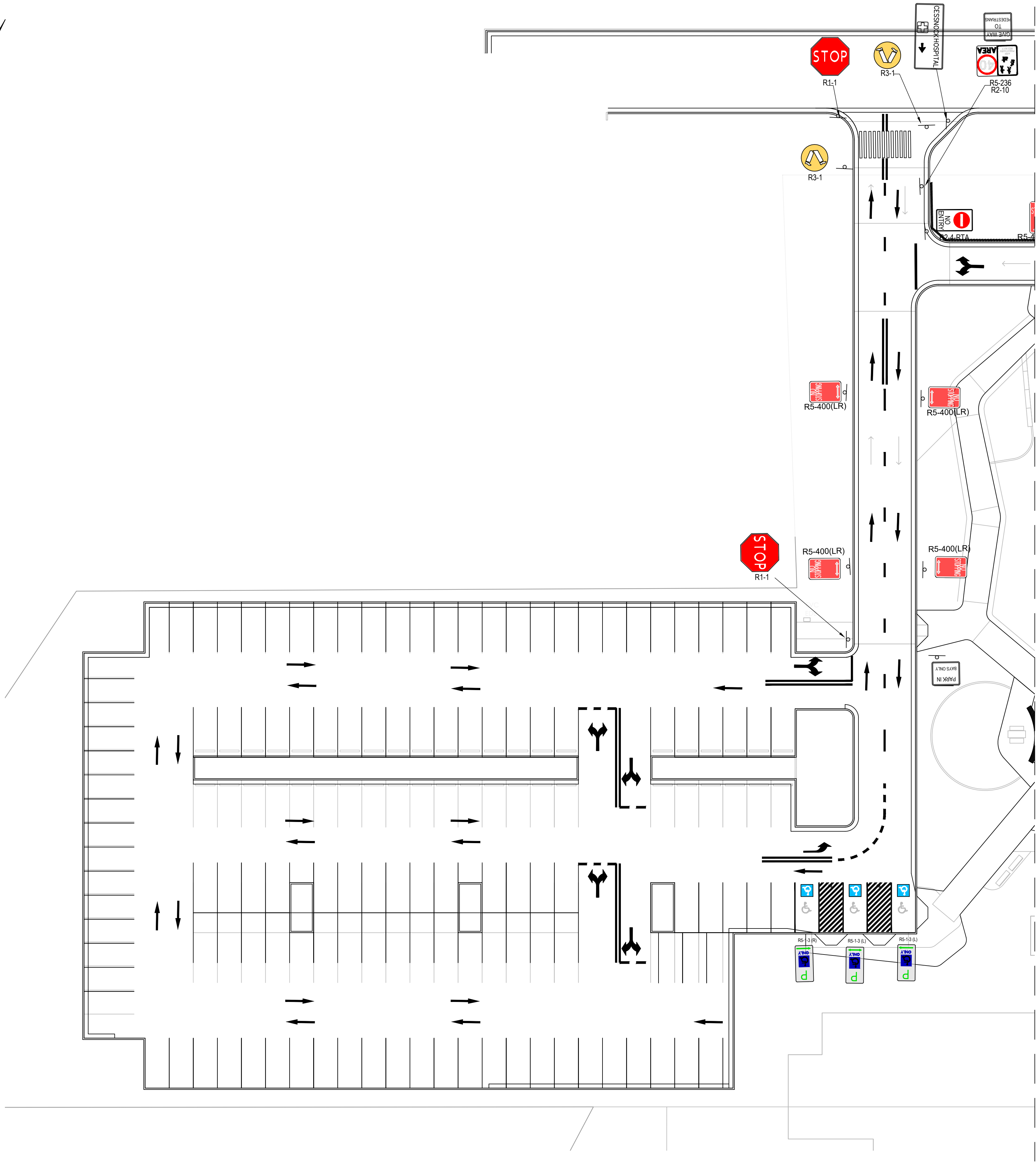


project
**CESSNOCK HOSPITAL
REDEVELOPMENT**

24 VIEW STREET, CESSNOCK, 2325
NSW

drawing title
**SIGNAGE AND LINEMARKING
SHEET 2**

status FOR INFORMATION ONLY			
scale at A1 1:250	drawn ASE	checked RGU	approved
project no. 6850	sheet 6850-CV-6002	rev. 04	



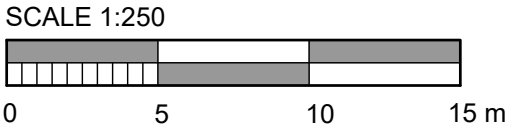
FOR CONTINUATION REFER TO 6850-CV-6001

LEGEND

E1	Edge line type e1
E5	Edge line type e5
BB	Barrier line
TB	Holding line
TF	Stop line
C1	Continuity line
T1	Turn line
S1	Separation line type s1
S2	Separation line type s2
L1	Lane line type l1
B1	Bike lane line
PCW	Signalised pedestrian crossing
Urban arrow type UA1	Urban arrow type UA1
Urban arrow type UA3 (L OR R)	Urban arrow type UA3 (L OR R)
Urban arrow type UA4 (L OR R)	Urban arrow type UA4 (L OR R)
Proposed sign pole	Proposed sign pole
Existing sign to be retained	Existing sign to be retained
Existing sign to be removed	Existing sign to be removed
Proposed sign	Proposed sign
E7	Off-road edge line
S4	Off-road continuous separation line
S5	Off-road broken separation line

NOTE

Line marking to be in accordance with AS1742.2 and state government standards/delineation guidelines. All redundant line marking is to be removed.



NOT FOR CONSTRUCTION