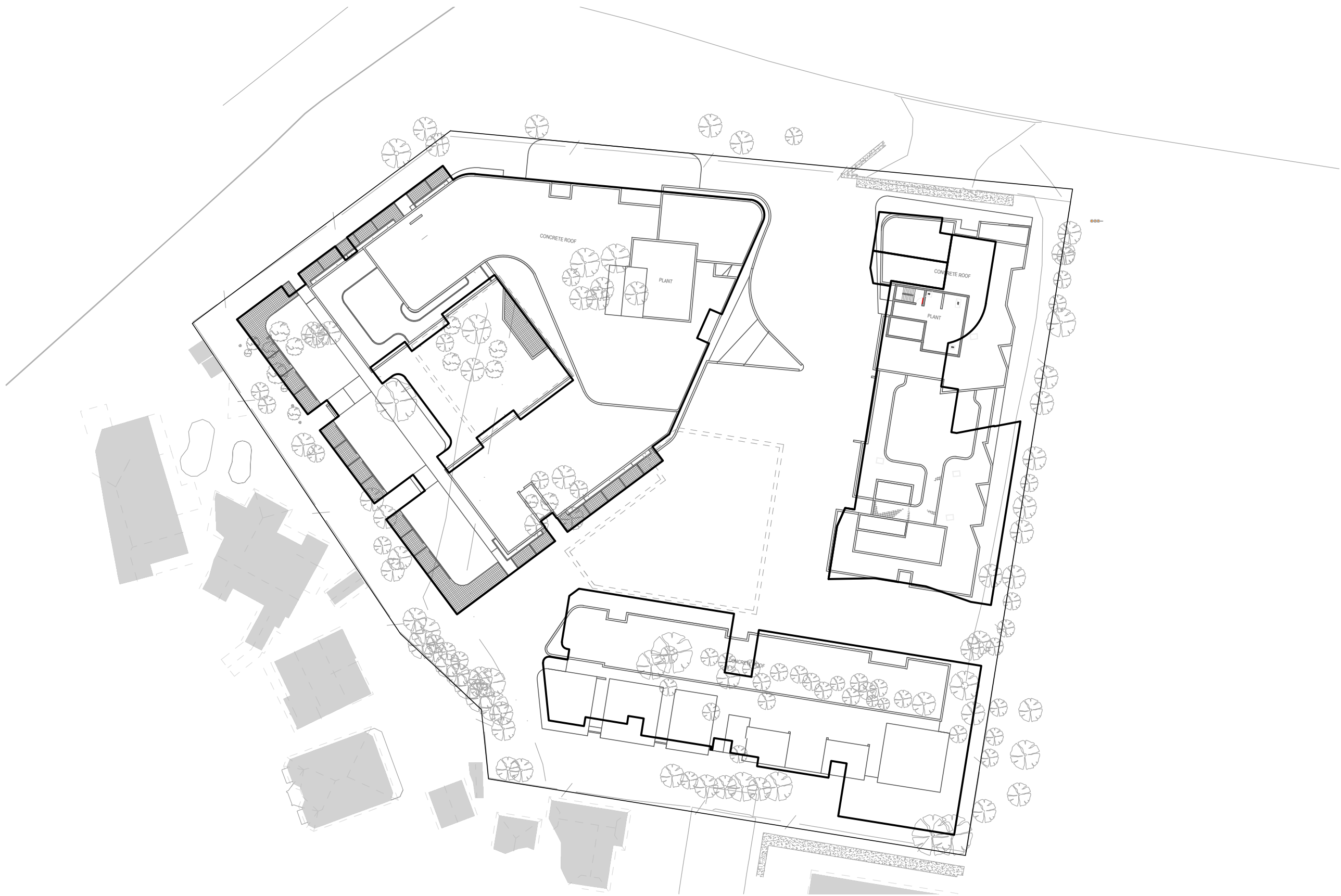


# CASULA AGED CARE, 18 RANDWICK CLOSE, CASULA, NSW 2758 CIVIL WORKS



DRAWING LIST	
DRAWING No.	DRAWING NAME
C01	COVER SHEET AND DRAWING LIST
C02	GENERAL NOTES AND LEGENDS
C05	SEDIMENT AND EROSION CONTROL PLAN
C06	SEDIMENT AND EROSION CONTROL DETAILS
C10	BULK EARTH WORKS PLAN
C11	STORMWATER CONCEPT PLAN – GROUND LEVEL
C12	OSD TANK PLAN AND DETAILS


P1	ISSUED FOR APPROVAL	NB	MB	03.10.19
Rev	Description	Eng	Draft	Date
Project				

CASULA AGED CARE  
CIVIL WORKS

COVER SHEET AND  
DRAWING LIST

Architect  
**JACKSON TEECE**  
LOT 1, PIER 8-9, 23 HICKSON ROAD,  
WALSH BAY, NSW 2000  
Engineer

**TTW** Structural  
Civil  
Traffic  
Façade

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Scale : A1	Drawn LS	Authorised NB
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Job No <b>191583</b>	Drawing No <b>C01</b>	Revision <b>P1</b>
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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.

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
JACKSON TEECE	GROUND FLOOR	DA-110	P14	27.09.18
PINNAQLE	SURVEY	1185DeReA	A	20.05.19

SITEWORKS NOTES

- All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard 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

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : **BOUNDARY**

Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.

Taylor Thomson Whitting 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.

EROSION AND SEDIMENT CONTROL NOTES

- All work shall be generally carried out in accordance with
  - Local authority requirements,
  - EPA – Pollution control manual for urban stormwater,
  - 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 flows into existing stormwater system.
  - Construct sedimentation traps/basin including outlet control and overflow.
  - Construct turf lined swales.
  - Provide sandbag sediment traps upstream of existing pits.
- Construct geotextile filter pit surround around all 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.

SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for 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 practicably 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 practicably 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.

SURVEY LEGEND

	Surface level
	Contour
	Kerb line
	Batter
	Retaining wall
	Stormwater drainage line
	Telecommunications line
	Gas line
	Water main
	Sewer line
	Electrical line
	Easement
	Fence
	Tree to be removed/be retained
	Boundary
	Sign
	Hydrant
	Manhole
	Gas
	Stop Valve
	Water
	Telecommunications
	Trap
	Gully
	Grate
	Sewer Manhole
	Electricity
	Electric Light Pole
	Traffic Light
	Traffic Light Lid
	Traffic Light Box
	Telephone Box
	Parking Meter
	Permanent Mark
	Bench Mark
	Borehole
	Test Pit
	Fuel Cock
	Flood Light
	Lamp Hole
	Bubbler
	Letter Box
	Flag Pole
	Flag Pole Box
	Bollard
	Seat
	Bin
	Kerb Outlet

SITEWORKS LEGEND

	Finished surface level
	Stormwater pit, flow direction and line with Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream
	Grated drain
	Subsoil drainage line (100 dia) - refer detail sheets
	Intermediate riser with subsoil drainage line (100 dia)
	Flushing point with subsoil drainage line (100 dia)
	Down pipe
	Rodding point
	Concrete encased stormwater line
	Stormwater line with pipe taper and flow direction Taper kerb to zero height over 500 mm

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CASULA AGED CARE CIVIL WORKS

Sheet Subject

GENERAL NOTES AND LEGEND

Architect

**JACKSON TEECE**  
LOT 1, PIER 8-9, 23 HICKSON ROAD,  
WALSH BAY, NSW 2000  
Engineer

**TTW** Structural  
Civil  
Traffic  
Façade

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

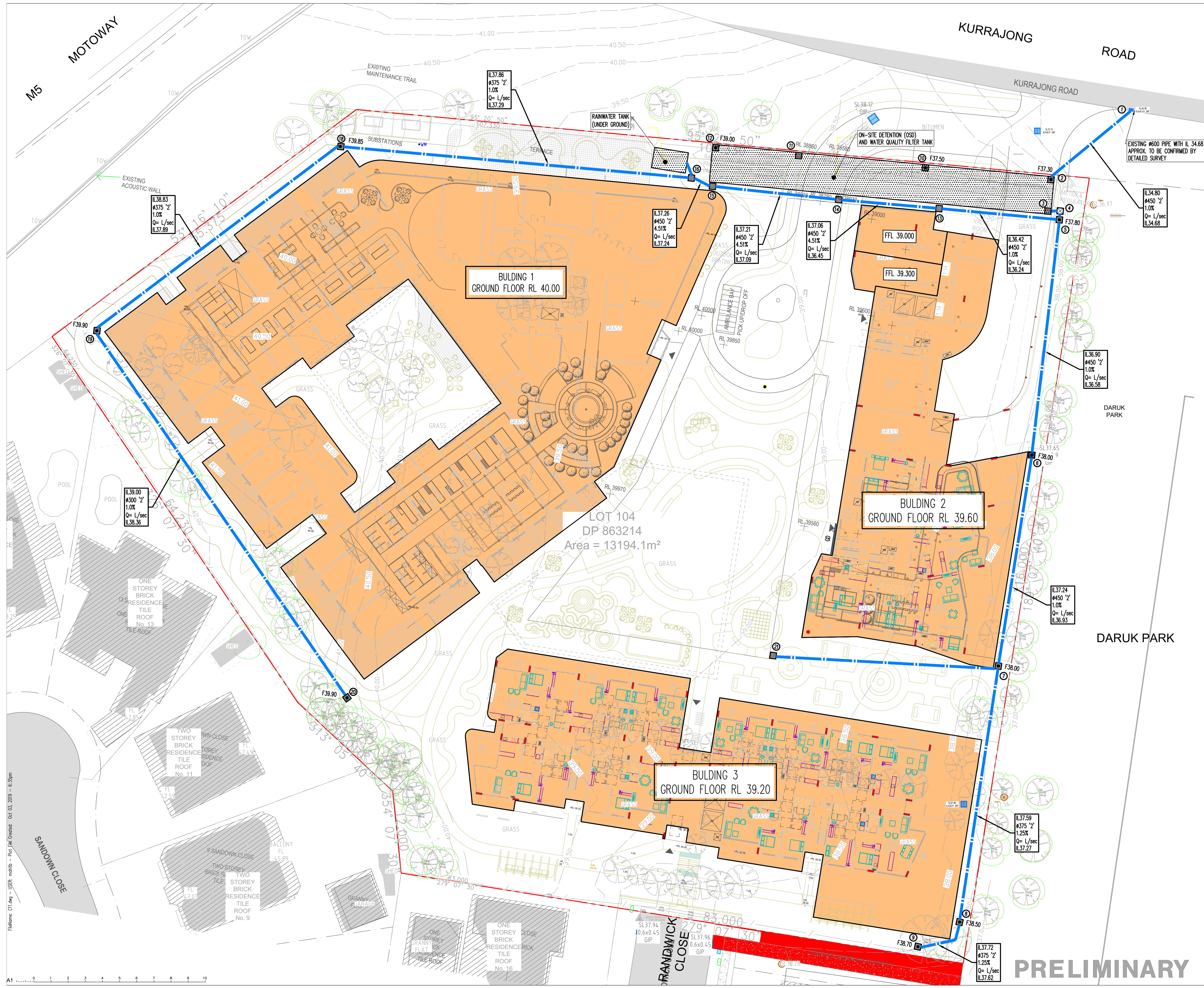
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Job No	Drawing No	Revision
191583	C02	P1

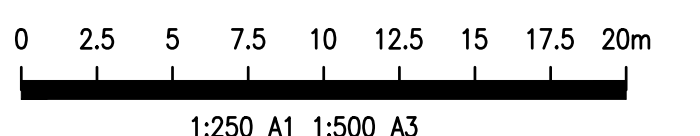
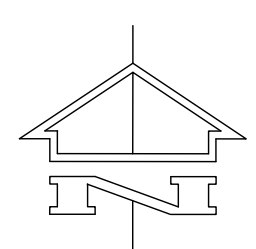
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PRELIMINARY





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THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C01



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Project  
**CASULA AGED CARE CIVIL WORKS**

Sheet Subject  
**STORMWATER CONCEPT PLAN - GROUND LEVEL**

Architect  
**JACKSON TEECE**  
LOT 1, PIER 8-9, 23 HICKSON ROAD,  
WALSH BAY, NSW 2000  
Engineer

**TTW** Structural Civil Traffic Façade

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

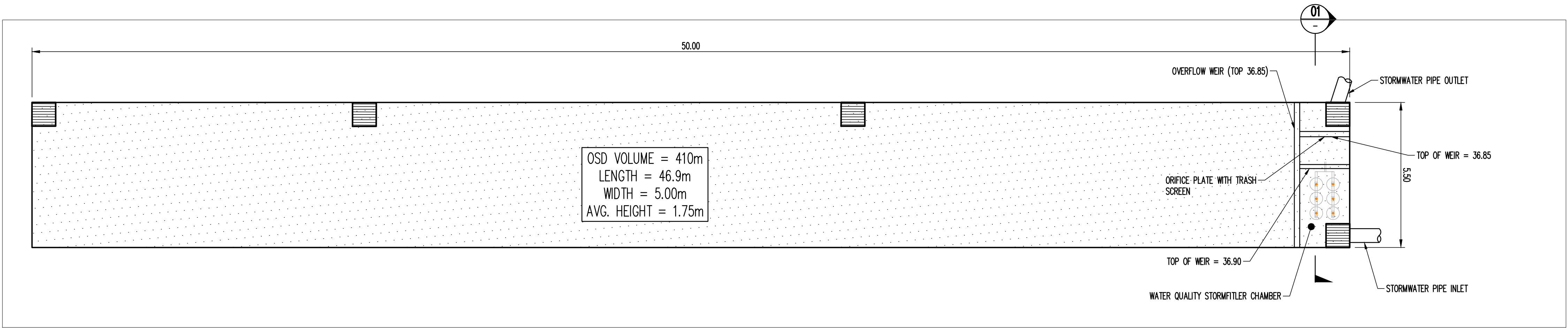
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Job No 191583 Drawing No C11 Revision P1

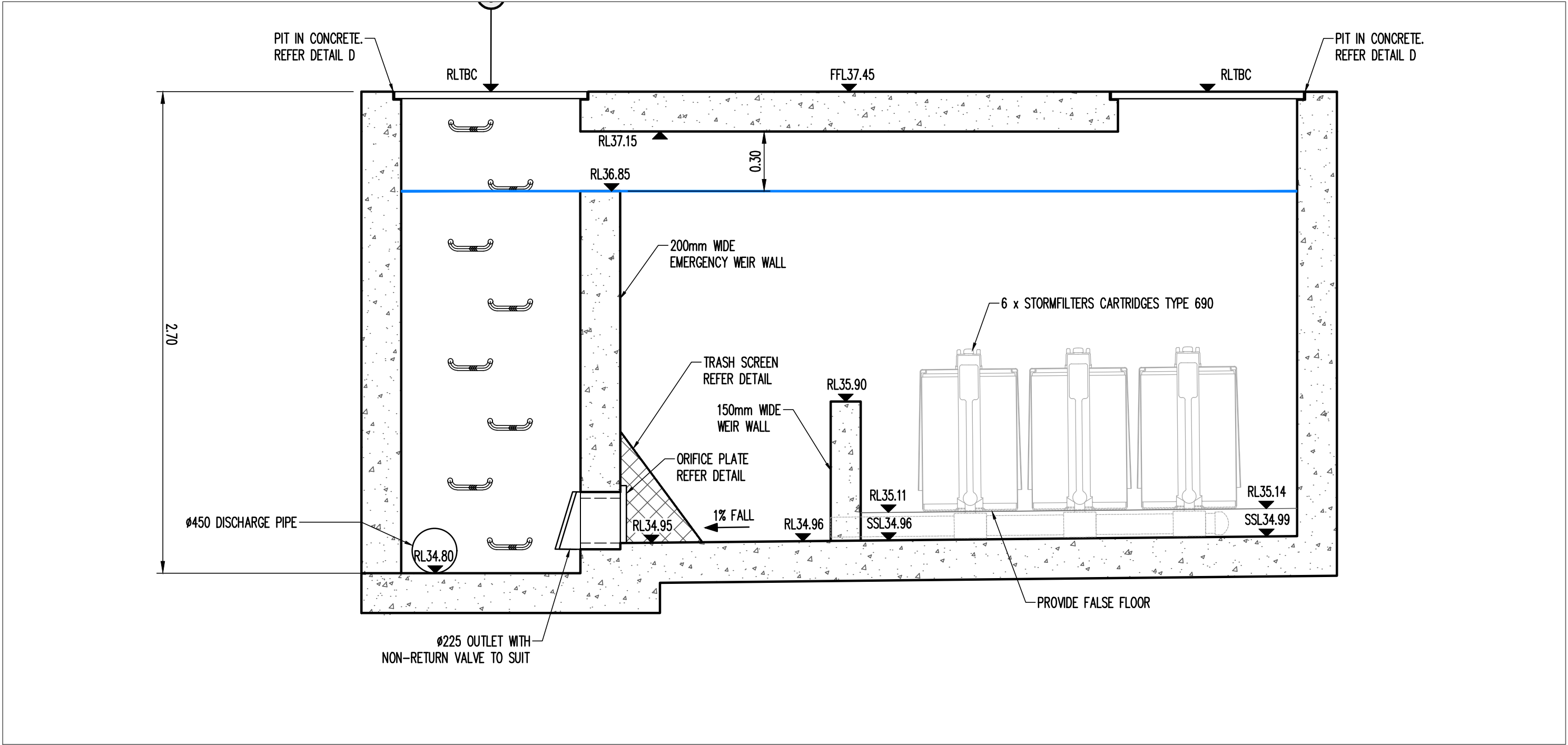
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**PRELIMINARY**

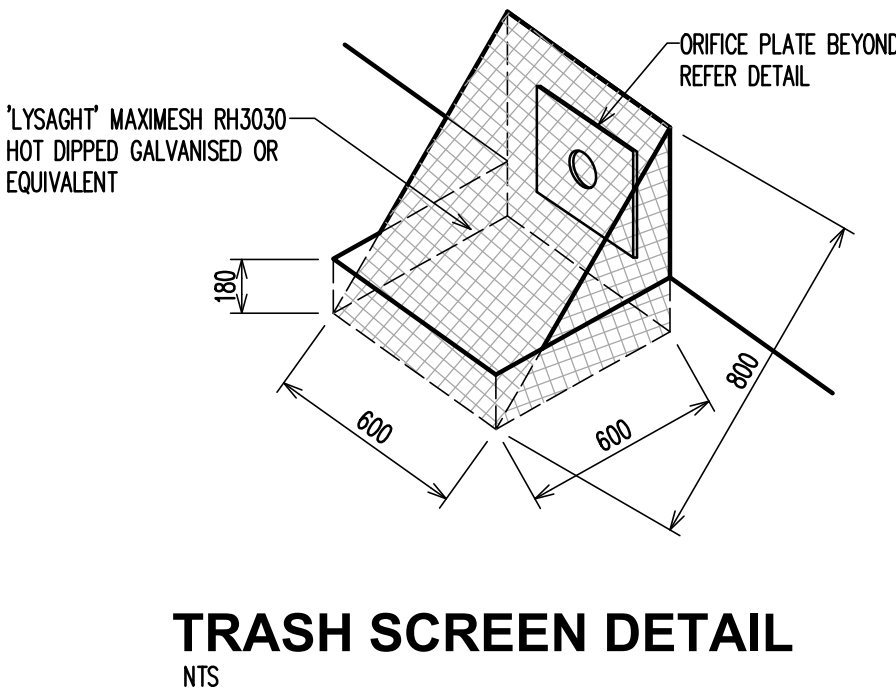
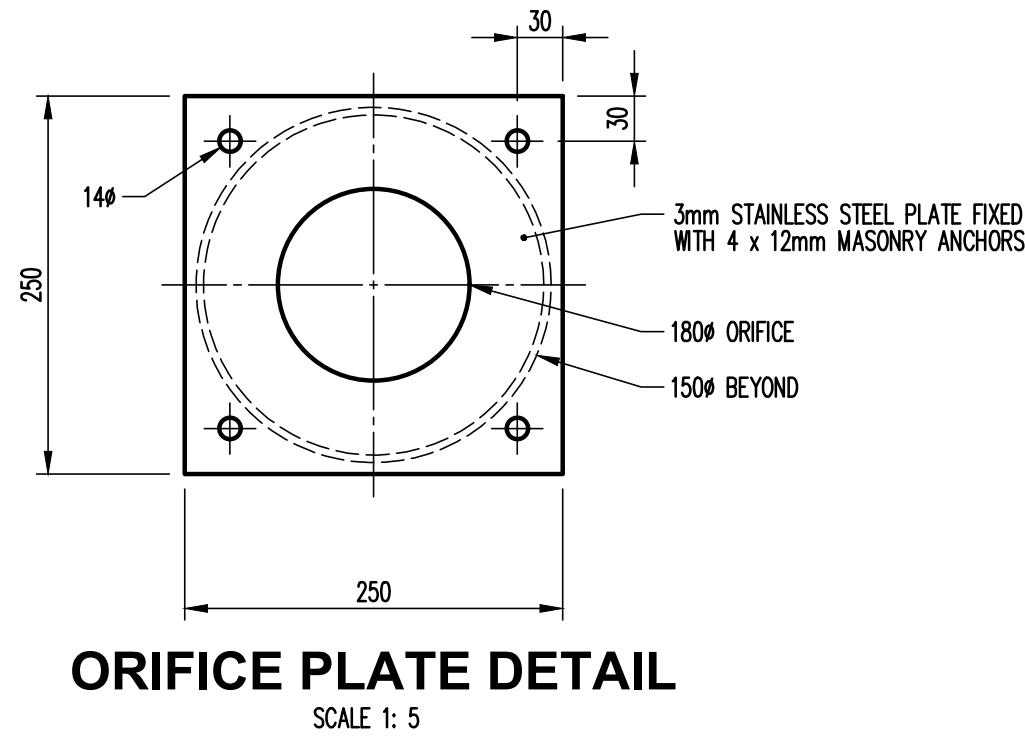
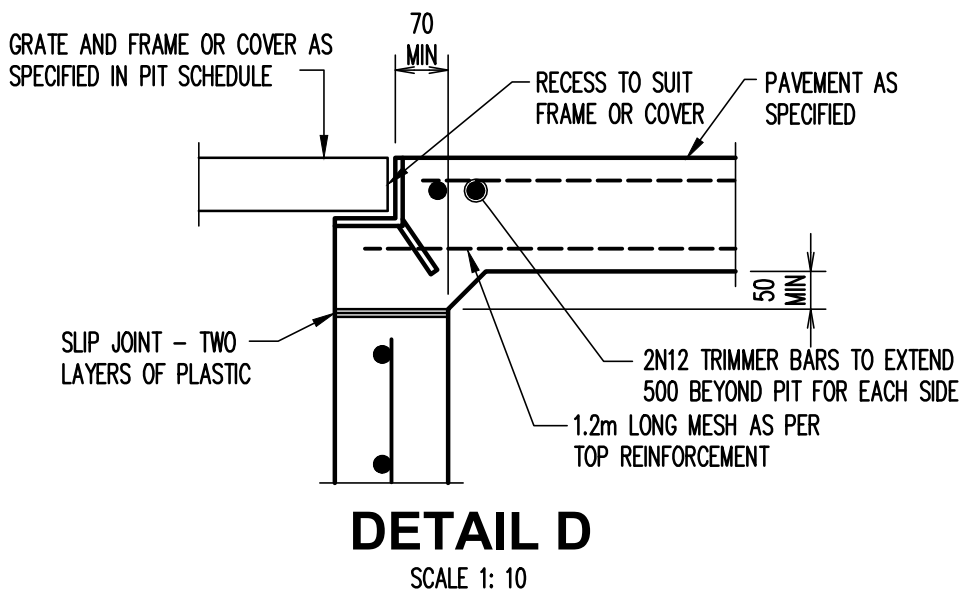




OSD PLAN  
SCALE 1: 100



SECTION 01



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CASULA AGED CARE  
CIVIL WORKS

Sheet Subject  
OSD TANK DETAILS &  
SECTIONS

Architect  
**JACKSON TEECE**  
LOT 1, PIER 8-9, 23 HICKSON ROAD,  
WALSH BAY, NSW 2000  
Engineer

**TTW** Structural  
Civil  
Traffic  
Façade

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

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191583 C12 P1

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