

Stantec Australia Pty Ltd | ABN 17 007 820 322 Ground Floor, 16 Burelli Street Wollongong NSW 2500 Tel: 02 4231 9600 Web: www.stantec.com/au

LANDCOM NORTH WILTON SALES AND INFORMATION CENTRE DEVELOPMENT APPLICATION **COVER SHEET**

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- GENERAL
- 1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE WOLLONDILLY SHIRE COUNCIL SUBDIVISION CODE, TECHNICAL POLICIES IN THE ABSENCE OF RELEVANT DETAILS, THE RELEVANT AUSTRALIAN STANDARDS AND RMS SPECIFICATIONS.
- 2. ENGINEERING PLANS TO BE READ IN CONJUNCTION WITH PLANS FOR WATER, SEWER, GAS, OPTICOMN AND
- ELECTRICITY. 3. THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION MEETING WITH SERVICE AUTHORITIES TO ESTABLISH THE
- LOCATION OF UTILITY SERVICES AND SPECIAL REQUIREMENTS.
- 4. FENCES REMOVED OR DAMAGED DURING CONSTRUCTION TO BE REINSTATED IMMEDIATELY UPON COMPLETION. 5. NO WORK TO BE UNDERTAKEN ON ADJOINING LAND WITHOUT THE WRITTEN PERMISSION OF THE AFFECTED OWNERS.
- 6. COUNCIL'S TREE PRESERVATION ORDER TO BE OBSERVED AT ALL TIMES. 7. ALL RUBBISH AND STRUCTURES TO BE REMOVED BY THE CONTRACTOR AND DISPOSED. DOCUMENTATION SUCH AS
- RECEIPTS TO BE RETAINED TO VERIFY COMPLIANCE WITH WASTE MANAGEMENT PLAN. 8. ALL NEW WORKS TO MAKE SMOOTH WITH EXISTING.
- 9. ALL CONDUITS AND STUBS TO BE LAID UNDER ROAD PAVEMENT PRIOR TO LAYING OF SUBBASE LAYER OF PAVEMENT.
- 10. ANY ROCK EXCAVATION TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO UNDERTAKING SUCH EXCAVATION. 11. THE CONTRACTOR SHALL ARRANGE A PRE START MEETING WITH COUNCIL, A MINIMUM OF 7 DAYS BEFORE START OF
- CONSTRUCTION. 12. SOIL WATER MANAGEMENT CONTROLS TO BE ESTABLISHED PRIOR TO INITIATION OF BULK EARTHWORKS
- 13. LEVELS ARE BASED ON AHD.
- 14. PROJECT MANAGER TO BE NOTIFIED IMMEDIATELY IF ANY EVIDENCE OF CONTAMINATION IS IDENTIFIED ON SITE. 15. ALL EXISTING TREES THAT HAVE NOT BEEN APPROVED FOR REMOVAL SHALL HAVE A PROTECTIVE FENCE ERECTED AROUND THEM FOR PROTECTION PURPOSES.

SURVEY

- 1. THE CONTRACTOR SHALL UNDERTAKE THE NECESSARY SURVEY SETOUT FOR THE WORKS.
- 2. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ANY UTILITY SERVICES OVER THE SITE. CONTRACTORS TO CARRY OUT COMPLETE SERVICES SEARCH BY AN ACCREDITED SERVICES LOCATOR PRIOR TO CONSTRUCTION.
- 3. ALL SURVEY MARKS TO BE RETAINED UNLESS ADVISED OTHERWISE BY THE SUPERINTENDENT. 4. THE CONTRACTOR WILL SURVEY ALL AREAS OF OVER STRIPPING, AND ADVISE THE SUPERINTENDENT BEFORE
- PLACING FILL OVER SUCH AREAS 5. THE CONTRACTOR SHALL SURVEY THE LOCATION AND LEVEL OF BURIED ENDS AND JUNCTIONS OF PIPES AND
- CONDUITS FOR FUTURE WORK AS EXECUTED PLANS. 6. CONTRACTOR TO PROVIDE WORKS AS EXECUTED SURVEY FOR ALL SERVICES BY AN ACCREDITED SURVEYOR.

GEOTECHNICAL

- 1. STRIPPED FILL AREAS TO BE PROOF ROLLED AND APPROVED BY GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF FILL.
- 2. UNSUITABLE MATERIAL TO BE TREATED AS RECOMMENDED BY THE GEOTECHNICAL CONSULTANT.
- 3. ABRUPT CHANGES IN SUBSURFACE CONDITIONS TO BE REPORTED IMMEDIATELY TO THE GEOTECHNICAL CONSULTANT
- 4. ALL CUT AND FILL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONDILLY SHIRE COUNCIL STANDARDS
- AND AUSTRALIAN STANDARDS. 5. PAVEMENT DESIGN TO BE FINALISED BY GEOTECHNICAL CONSULTANT AFTER DETAILED SUBGRADE INVESTIGATION.
- 6. STRIPPED AREA TO BE SURVEYED PRIOR TO PLACING FILL.
- 7. LOT FILLING IS TO BE PLACED UNDER LEVEL 1 CONTROL AS DEFINED IN AS3798-2007.

CONCRETE WORKS

- 1. COMPRESSIVE STRENGTH (F'c) FOR NON-STRUCTION CAST IN SITU CONCRETE SHALL BE MINIMUM 25 MPa AT 28 DAYS U.N.0.
- 2. ALL KERB TO BE 150mm KERB & GUTTER UNLESS SPECIFIED OTHERWISE

SOIL AND WATER MANAGEMENT

- PERMANENT BATTERS TO BE TOPSOILED (MIN 0.150m) AND HYDROSEEDED WITH APPROVED SEED MIX OR PLANTED AS PER LANSCAPE PLAN WHICHEVER IS APPLICABLE.
- 2. ALL FOOTPATHS AND DISTURBED AREAS TO BE HYDROSEEDED IMMEDIATELY UPON COMPLETION WITH SEED MIX
- APPROVED BY SUPERINTENDENT. PLACE 300mm WIDE STRIP OF TURFING AT THE BACK OF ALL KERBING. ALL STOCKPILES TO HAVE SEDIMENT FENCE PLACED DOWNSTREAM TO PREVENT LOSS OF MATERIAL. ALL DISTURBED
- AREAS ARE TO BE SEEDED WITH AN APPROVED SEED MIX.
- SEEDED AREAS TO BE REGULARLY WATERED TO PROMOTE RAPID GROWTH.
- ANY REVEGETATED AREAS WHICH FAIL TO ESTABLISH WITHIN THREE MONTHS MUST BE RE-SOWN. 6. ALL SOIL AND WATER MANAGEMENT DEVICES TO BE CHECKED AND MAINTAINED WEEKLY AND AFTER EACH STORM EVENT
- TO ENSURE OPERATION AND PERFORMANCE. ANY INCIDENTS ON SITE LIKELY TO CAUSE POLLUTION TO BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. 8. DUST SUPPRESSION EQUIPMENT TO BE AVAILABLE AT ALL TIMES (INCLUDING WEEKENDS, ROSTER DAYS AND PUBLIC
- HOLIDAYS) TO REDUCE THE EMISSION OF DUST FROM THE SITE. 9. SEDIMENT CONTROL MEASURES TO BE REMOVED WHEN REVEGETATION HAS ESTABLISHED.
- 10. HAULAGE VEHICLES TO REMAIN ON SEALED ROADS OR DEFINED TRACKS AT ALL TIMES WITHIN THE SITE.
- 11. BITUMEN DEFLECTORS TO BE PLACED ACROSS ROAD SHOULDER IF FINAL SEAL IS NOT TO BE PLACED IMMEDIATELY. EARTHWORKS AND TRENCHING TO BE STAGED TO KEEP WORK AREAS TO A MANAGEABLE SIZE.
- 13. EXCAVATED MATERIAL FROM TRENCHES TO BE STOCKPILED UPHILL OF TRENCH UNTIL BACKFILLING.
- 14. PUBLIC ROADS TO BE KEPT CLEAR OF DEBRIS AT ALL TIMES.
- 15. CONTRACTOR TO PROVIDE SHAKER PAD FOR VEHICLES ENTERING/LEAVING SITE.
- 16. SEDIMENT FENCING, HAYBALES, SEDIMENT TRAPS AND OTHER SOIL AND WATER MANAGEMENT MEASURES ARE TO BE PLACED ACCORDINGLY ON SITE AS PER COUNCIL'S CONSTRUCTION SPECIFICATION AND THE DEPARTMENT OF HOUSING'S "BLUE BOOK".
- 17. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES ON SITE. THESE DEVICES ARE TO BE MAINTAINED SO AS TO PREVENT THE DISCHARGE OF SILT INTO ADJOINING CREEKS, BUSHLANDS, GUTTERS OR DRAINS. THESE DEVICES ARE TO BE MAINTAINED FOR THE FULL DURATION OF CONSTRUCTION AND BEYOND THIS PERIOD WHERE NECESSARY. ONCE THE SOIL AND WATER MEASURES ARE NO LONGER REQUIRED THE CONTRACTOR IS TO REMOVE AND DISPOSE OF THESE ITEMS OFF SITE.
- 18. THE PERSON OR ENTITY HAVING THE BENEFIT OF THIS CONSENT SHALL ENSURE ADJOINING ROADS AND PROPERTIES ARE NOT IMPACTED BY THE DUST, MUD, SEDIMENT, SOIL OR ANY OTHER MATERIAL CREATED FROM THE WORKS. 19. ALL DISTURBED AREAS ARE TO BE STABILISED BY TURFING, MULCHING, PAVING OR OTHERWISE SUITABLY STABILISED
- WITHIN 30 DAYS OF COMPLETION. 20. A STABILISED VEHICLE ACCESS, WHEEL WASH OR OTHER CONTROL MEASURE SHALL BE INSTALLED ON THE SITE TO PREVENT THE DEPOSITION OF SEDIMENTS, SOILS, MUD AND OTHER MATERIAL ONTO THE ADJOINING ROAD NETWORK. WHERE SEDIMENTS, SOILS, MUD AND OTHER MATERIALS HAVE BEEN DEPOSITED ON A ROAD CLEANING AND RESTORATION
- OF THE ROAD PAVEMENT AND DELINEATION SHALL BE UNDERTAKEN AS SOON AS PRACTICABLE. 21. VEHICLE ACCESS IS TO BE CONTROLLED AS TO PREVENT TRACKING OF SEDIMENT ONTO ADJOINING ROADWAYS,
- PARTICULARLY DURING WET WEATHER OR WHEN THE SITE HAS BEEN AFFECTED BY WET WEATHER. 22. STOCKPILES OF CONSTRUCTION AND LANDSCAPING MATERIALS, AND SITE DEBRIS ARE TO BE LOCATED CLEAR OF
- DRAINAGE LINES AND IN SUCH POSITION THAT THEY ARE WITHIN THE EROSION CONTAINMENT BOUNDARY OR ARE EQUIVALENTLY PROTECTED FROM EROSION AND DO NOT ENCROACH UPON ANY FOOTPATH, NATURAL STRIP OR ROADWAY. 23. STOCKPILES OF MATERIALS SHALL BE COVERED, GRASSED OR ACTIVELY MANAGED TO LIMIT THE DISPERSAL OF MATERIALS FROM THE SITE. TOPSOIL STRIPPED FROM THE CONSTRUCTION SITE IS TO BE STOCKPILED AND PROTECTED FROM
- EROSION UNTIL RE-USED DURING LANDSCAPING.

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24. KIKUYU IS NOT PERMITTED TO BE USED FOR TURFING OF ANY DISTURBED AREAS. 25. REGULAR WETTING OF SITE TO BE PERFORMED TO REDUCE DUST GENERATED FROM SITE.

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- DURING THE ROLLER TEST WHEN PART OF THE PAVEMENT DEPTH HAS BEEN PLACED (AS ADVISED) AT COMPLETION OF PAVEMENT SHAPING, PRIOR TO PRIMING
- AT COMPLETION OF THE PREPARATION OF KERB AND GUTTERING SUBGRADE AT COMPLETION OF THE PREPARATION OF ALL CONCRETE LAYBACK GUTTER CROSSING SUBGRADE
- PRIOR TO POURING OF VEHICAL CROSSING SLABS WHEN FORMWORK AND STEEL IS IN PLACE

SURVEY

CONCRETE WORKS

FENCING

TREE REMOVAL

- ANY FELLED VEGETATION MUST BE MULCHED AND STOCKPILED ON SITE. THE CONTRCTOR TO ALLOW FOR ALL MULCHING, STOCKPILING AND APPROPRIATE SEDIMENT FENCING. IT IS INTENDED THAT THE MULCH IS REUSED ON SITE. THIS WILL BE
- CONFIRMED BY THE LANDSCAPE CONTRACTOR DURING CONSTRUCTION.

- VEGETATION REMOVAL PRIOR TO TENDER SUBMISSION. PRIOR TO THE REMOVAL OF ANY TREE, EACH TREE WILL BE INSPECTED BY A QUALIFIED ECOLOGIST. THE ECOLOGIST WILL REMAIN ON SITE FOR THE DURATION OF THE TREE REMOVAL TO ENSURE ANY FAUNA IS RELOCATED ACCORDINGLY. THE ECOLOGIST WILL BE COMMISSIONED BY THE PRINCIPAL. THE CONTRACTOR IS TO PROVIDE AT LEAST 5 BUSINESS DAYS NOTICE PRIOR TO THE REMOVAL OF ANY TREES.

- THE TREE REMOVAL PLAN IS INDICATIVE ONLY. THE CONTRACTOR IS TO VISIT SITE AND CONFIRM THE EXTENT OF

Date

Date

Date

17/03/2025



SCHEDULE OF DRAWINGS				
DRAWING No.	DESCRIPTION			
304001108-001-C3000	COVER SHEET			
304001108-001-C3001	LOCALITY PLAN, DRAWING SCHEDULE AND GENERAL NOTES			
304001108-001-C3002	SOIL AND WATER MANAGEMENT LAYOUT PLAN			
304001108-001-C3003	SOIL AND WATER DETAILS			
304001108-001-C3004	GENERAL ARRANGEMENT LAYOUT PLAN			
304001108-001-C3005	PAVEMENT LAYOUT PLAN			
304001108-001-C3006	FOOTPATH DETAILS			
304001108-001-C3007	BULK EARTHWORKS LAYOUT PLAN			
304001108-001-C3008	BULK EARTHWORKS SECTIONS			
304001108-001-C3009	STRUCTURAL NOTES SHEET 1 OF 2			
304001108-001-C3010	STRUCTURAL NOTES SHEET 2 OF 2			
304001108-001-C3011	RETAINING WALL LAYOUT PLAN			
304001108-001-C3012	RETAINING WALL LONG SECTIONS AND DETAILS SHEET 1 OF 2			
304001108-001-C3013	RETAINING WALL DETAILS SHEET 2 OF 2			
304001108-001-C3014	VEHICLE TURNING PATH SHEET 1 OF 2			
304001108-001-C3015	VEHICLE TURNING PATH SHEET 2 OF 2			

PRINCIPAL CERTIFIER INSPECTION

- 1. THE ENGINEERING WORKS SHALL BE INSPECTED BY THE PRINCIPAL CERTIFYING AUTHORITY (PCA). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE PCA WHEN INSPECTIONS ARE REQUIRED. AT LEAST 24 HOURS NOTICE IS REQUIRED FOR INSPECTIONS WHERE COUNCIL IS THE PCA. THE PCA SHOULD BE NOTIFIED AT THE FOLLOWING STAGES: PRIOR TO COMMENCING FILLING WORKS
- WHEN DRAINAGE LINES HAVE BEEN LAID, JOINTED AND BEDDED, PRIOR TO BACKILLING
- PRIOR TO POURING OF DRAINAGE PITS WHEN THE FORMWORK AND STEEL IS IN PLACE
- WHEN ROADWORKS HAVE BEEN EXCAVATED TO SUBGRADE, PRIOR TO PLACING OF PAVEMENT. WHEN THE SUBSOIL DRAINAGE LINES HAVE BEEN EXCAVATED AND DRAINAGE PIPE LAID PRIOR TO PLACING FILTER MATERIAL
- PRIOR TO PLACING CONCRETE FOR FOOTPATHS/CYCLEWAYS WHEN FORM WORK AND STEEL IS IN PLACE
- AT PRACTICAL COMPLETION OF WORKS
- AT FINAL COMPLETION OF WORKS 2. THE PRINCIPAL CERTIFYING AUTHORITY DURING CONSTRUCTION WILL BE BARKER RYAN STEWART.

- THE CONTRACTOR SHALL UNDERTAKE THE NECESSARY SURVEY SETOUT FOR THE WORKS.
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ANY UTILITY SERVICES OVER THE SITE.
- ALL SURVEY MARKS TO BE RETAINED UNLESS ADVISED OTHERWISE BY THE SUPERINTENDENT THE CONTRACTOR WILL SURVEY ALL AREAS OF OVER STRIPPING , AND ADVISE THE SUPERINTENDENT BEFORE PLACING
- FILL OVER SUCH AREAS. THE CONTRACTOR SHALL SURVEY THE LOCATION AND LEVEL OF ALL SERVICES, BURIED ENDS AND JUNCTIONS OF PIPES AND CONDUITS FOR WORKS AS EXECUTED PLANS.
- 6. ALL FILL AREAS TO BE SURVEYED PRIOR TO PLACING BACKFILL.

1. COMPRESSIVE STRENGTH (F'c) FOR NON-STRUCTURAL CAST IN SITU CONCRETE SHALL BE MINIMUM 25 MPa AT 28 DAYS UNO 2. ALL KERB TO BE 150mm KERB & GUTTER UNLESS SPECIFIED OTHERWISE.

1. ALL FENCING TO BE OF CATEGORY D RATING AND A CERTIFICATION FROM THE FENCING CONTRACTOR TO BE PROVIDED TO SUPERINTENDENT UPON INSTALLATION. ALL FENCING TO BE MAINTAINED FOR THE DURATION OF THE WORKS.

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PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N -

TYPICAL STABILISED SITE ACCESS DETAIL SD 6-14 SCALE - N.T.S

CONSTRUCTION NOTES

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



STRAWBALE SEDIMENT BARRIER SCALE: N.T.S.

CONSTRUCTION NOTES

- 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
- 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS
- BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
- 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE. 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.







NOTE:

THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

TYPICAL MESH AND GRAVEL INLET FILTER DETAIL SD6-11

SCALE N.T.S.



-ON SOIL, 150mm X 100 mm TRENCH WITH

COMPACTED BACKFILL AND ON ROCK,

600 mm MIN.



CONSTRUCTION NOTES

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

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Date 20/11/2024 LANDCOM BAH Checked Date ^{ject} NORTH WILTON MPR 19/03/2025 Date Designed SALES AND INFO BAH 20/11/2024 DEVELOPMENT Date /erified CSH 17/03/2025 SOIL AND WATE Approved 17/03/2025

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GENERAL NOTES

- 1. ALL SURFACE WATER AND EROSION AND SEDIMENT CONTROL MEASURES AS DETAILED ON THE APPROVED MANAGEMENT PLANS MUST BE IN PLACE BEFORE THE COMMENCEMENT OF CONSTRUCTION AND CONTINUE TO OPERATE AFTER COMPLETION OF THE CONSTRUCTION UNTIL THE VEGETATION IS ESTABLISHED.
- 2. MEASURES USED TO MANAGE EROSION AND SEDIMENT CONTROL WILL INCLUDE: a. BASIN TO POND DIRTY RUNOFF FROM DISTURBED AREAS AND EXISTING UPSTREAM CATCHMENT SEDIMENT WILL SETTLE OUT OF SUSPENSION IN THESE PONDS. b. SEDIMENT CONTROL FENCES TO FILTER RUNOFF FROM DISTURBED AREAS AND STOCKPILES.
- c. CHECK DAMS TO FILTER LARGER FLOWS OF SEDIMENT LADEN RUNOFF TO TRAP SEDIMENT. 3. ALL SITE RUNOFF SHOULD BE DISCHARGED INTO GRASSED FIELDS, SEDIMENTATION TRAPS, OR CHECK DAMS DOWN SLOPE OF DISTURBED AREAS TO COLLECT, CONVEY AND TREAT SEDIMENT-LADEN RUNOFF.
- 4. SEDIMENT FENCES SHOULD BE INSTALLED ON THE DOWNSLOPE SIDE OF ALL STOCKPILES. 5. MEASURES SHALL BE TAKEN TO MINIMISE THE RISK OF EROSION TO DISTURBED AREAS. BARE AREAS SHOULD BE STABILISED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILISATION TECHNIQUES SUCH AS EROSION MATTING, SEDIMENT SCREENS, HAY BALE ENERGY DISSIPATERS, MULCHING, HYDROSEEDING AND GRASS SPECIES ESTABLISHMENT SHOULD BE IMPLEMENTED ON DISTURBED AREAS AS REQUIRED.
- 6. WEEKLY INSPECTION AND MAINTENANCE OF ALL WORKS AND REHABILITATED AREAS SHALL BE UNDERTAKEN.
- 7. FOLLOWING SUCCESSFUL REVEGETATION AND AFTER INSPECTION BY THE SUPERINTENDENT'S WATER QUALITY REPRESENTATIVE, TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED. THIS MAY INVOLVE CLEANING AND REMOVAL OF DIVERSION WORKS, SEDIMENT TRAPS AND CHECK DAMS.
- 8. EROSION AND SEDIMENT CONTROL STRUCTURES TO BE INSPECTED WEEKLY AND IMMEDIATELY AFTER EVERY STORM AND RUNOFF EVENT TO CHECK THEY ARE OPERATING SATISFACTORILY AND TO SCHEDULE ANY MAINTENANCE WORK AND REPAIRS THAT MAY BE REQUIRED. WEEKLY MAINTENANCE WILL INCLUDE:
- a. SEDIMENT REMOVAL FROM DRAINS AND CHECK DAMS.
- b. REPLACEMENT AS REQUIRED.
- 9. DUST SUPPRESSION EQUIPMENT TO BE AVAILABLE AT ALL TIMES (INCLUDING WEEKENDS, ROSTER DAYS AND PUBLIC HOLIDAYS) TO REDUCE THE EMISSION OF DUST FROM SITE.
- 10. ANY INCIDENTS ON SITE LIKELY TO CAUSE POLLUTION (FUEL, CHEMICALS, STORMWATER ETC) MUST BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT.
- 11. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH "MANAGING STORMWATER, SOIL & CONSTRUCTION" PRODUCED BY THE NSW DEPARTMENT OF HOUSING. (THE BLUE BOOK)
- 12. THIS PLAN SHOWS TYPICAL SOIL & WATER MANAGEMENT MEASURES THAT WILL BE REQUIRED BUT IS NOT INTENDED TO LIMIT THE CONTRACTOR TO ANY PARTICULAR CONSTRUCTION METHODOLOGY. ANY CHANGES ARE TO BE APPROVED BY COUNCIL OR PCA.
- 13. PERMANENT BATTERS TO BE TOPSOILED (MIN. 300mm) AND HYDROSEEDED WITH APPROVED SEED MIX. 14. ALL DISTURBED AREAS TO BE HYDROSEEDED IMMEDIATELY UPON COMPLETION WITH APPROVED
- SEED MIX
- 15. HYDROSEEDED AREAS TO BE REGULARLY WATERED TO PROMOTE RAPID GROWTH. 16. ANY REVEGETATED AREAS WHICH FAIL TO ESTABLISH WITHIN THREE MONTHS MUST BE RE-SOWN.
- 17. EARTHWORKS AND TRENCHING TO BE STAGED TO KEEP WORK AREAS TO A MANAGEABLE SIZE
- 18. EXCAVATED MATERIAL FROM TRENCHES TO BE STOCKPILED UPHILL OF TRENCH UNTIL BACKFILLING CAN OCCUR
- 19. PUBLIC ROADS TO BE KEPT CLEAR OF DEBRIS AT ALL TIMES. CONTRACTOR TO PROVIDE SHAKE DOWN PAD FOR VEHICLES ENTERING/LEAVING SITE.
- 20. HAULAGE VEHICLES TO REMAIN ON SEALED ROADS OR DEFINED TRACKS AT ALL TIMES WITHIN THE SITE.
- 21. SEDIMENT TRAPS ARE TO BE PROVIDED AROUND ALL PITS DURING AND FOLLOWING CONSTRUCTION. BARRIERS AND TRAPS CAN BE REMOVED UPON SUCCESSFUL REVEGETATION UPSTREAM AS DIRECTED BY THE SUPERINTENDENT.
- 22. ALL WORKS ENCLOSED AT ALL TIMES BY 1800mm HIGH CHAIN WIRE FENCE.

STAGING OF THE WORKS

IMPLEMENTATION

- 1. CONSTRUCT STABILISED SITE ACCESS & SHAKE DOWN PAD.
- 2. INSTALLATION OF BARRIER & SEDIMENT FENCE TO PERIMETER OF SITE AND AS INDICATED ON SWMP.
- 3. CONSTRUCTION OF TEMPORARY SEDIMENT CONTROL STRUCTURES.

REMOVAL

- 1. ENSURE ALL SOILS ARE STABILISED TO THE SATISFACTION OF THE SUPERINTENDENT.
- 2. REMOVE REMAINING TEMPORARY DIVERSION DRAINS AND ROCK CHECK DAMS.
- 3. DECOMMISSION OTHER TEMPORARY SOIL CONSERVATION WORKS.

DRMATION CENTRE	Status NOT TO BE U	FOR AP	PROVAL	N PUF	RPOSES
APPLICATION	DATUM		Scale	Size	
R DETAILS	AHD	GDA 2020	AS SHOWN		A1
	Drawing Number				Revision
	3040	01108-00	1-C3003		А



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Drawn BAH	Date 20/11/2024	
Checked MPR	Date 19/03/2025	Project NORTH WILTON
Designed BAH	Date 20/11/2024	SALES AND INFO
Verified	Date 17/03/2025	
Approved	11/03/2023	GENERAL ARRAI
COL	17/03/2025	



PROPOSED CRUSHED SANDSTONE PAVEMENT (REFER TO LANDSCAPE ARCHITECTS PLANS FOR MORE DETAILS) PROPOSED CONCRETE FOOTPATH PROPOSED RETAINING WALL 0.6m PROPOSED GABION WALL 0.5m PROPOSED STORMWATER NETWORK ----- EXISTING STORWATER EASEMENT ----- RW ----- EXISTING RECYCLED WATER — — W — EXISTING WATER —— s —— EXISTING SEWER $\left(\cdot \right)$ EXISTING TREE TO BE RETAINED

SCALE 1:200 (A1), 1:400 (A3) Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES Status ORMATION CENTRE APPLICATION DATUM Scale GDA 2020 1:200 AHD A1 ANGEMENT LAYOUT PLAN Drawing Number Revision 304001108-001-C3004 Α





Drawn BAH	Date 20/11/2024		
Checked MPR	Date 19/03/2025	Project NORTH WILTON	Status FOR APPROVAL
Designed BAH	Date 20/11/2024	SALES AND INFORMATION CENTRE	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Verified CSH	Date 17/03/2025		
Approved		PAVEMENT LAYOUT PLAN	Drawing Number Revision
CSH	17/03/2025		304001108-001-C3005 A





NOTE 1. REFER TO GROUP GSA PLANS SET FOR LANDSCAPE DETAILS

LEGEND			
	PROPOSED CRUS PAVEMENT	SHED SANDSTONE	
л	PROPOSED CONC	CRETE FOOTPATH	
	PROPOSED LAND	SCAPED AREA	
	PROPOSED RETA	INING WALL	
SJ	SAW JOINT		
IJ	ISOLATION JOINT		
DEJ	DOWELLED EXPA	NSION JOINT	
	EXISTING STORM	WATER NETWORK	
	EXISTING STORW	ATER EASEMENT	
s	EXISTING SEWER		
\bigcirc	EXISTING TREE T	O BE RETAINED	
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SCALE 1:200 (A1), 1:400 (A3)







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Rev.	Date	Description	Des.	Verif.	Appd.	

DOWELLED EXPANSION JOINT DETAIL (DEJ) FOR CONCRETE BAND - VEHICULAR ACCESS SCALE N.T.S

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Checked MPR	Date 19/03/2025	Project NORTH WILTON
Designed BAH	Date 20/11/2024	SALES AND INFO
Verified CSH	Date 17/03/2025	
Approved		FOOTPATH DETA
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MATION CENTRE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES					
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SCALE 1:10 (A1), 1:20 (A3)

SCALE 1:20 (A1), 1:40 (A3)

SCALE 1:50 (A1), 1:100 (A3)

400

600

1000mm

2000mm

800



1114 1113 1 C1008 1112 1111 2 C1008 3 C1008/ 1122 1123 LANDCOM 19/03/2025 ISSUED FOR APPROVAL BAH CSH CSH Δ Rev. Date Description Des. Verif. Appd.

KREF's: XR-304001108-01-E1-BASE; XR-304001108-01-D1-BASE; XR-304001108-01-G1-LEGEND; XR-304001108-01-E1-SURVEY; XR-304001108-01-G1-TITLE; XR-304001108-01-D1-BEW; XR-304001108-01-D1-BEW



SCALE 1:200

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Designed BAH	Date 20/11/2024	SALES AND INFORMATION CENTRE	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Verified CSH	Date 17/03/2025		DATUM Scale Size AHD GDA 2020 1:300 A1
Approved		BOER EARTHWORKS EATOUT FEAN	Drawing Number Revision
CSH	17/03/2025		304001108-001-C3007 A

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CONCEPT EARTHWORKS VOLUMES

PROPOSED CUT	1,600.7m³
PROPOSED FILL	13.7m³
BULK EARTHWORKS BALANCE	-1,587.0m³ (CUT)

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

A	19/03/2025	ISSUED FOR APPROVAL	BAH	CSH	CSH	LANDCOM
Rev.	Date	Description	Des.	Verif.	Appd.	

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Verified CSH	Date 17/03/2025	
Approved		BULKEARTHWORKS
CSH	17/03/2025	

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GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- REFER TO DRAWING C3003 FOR ADDITIONAL GENERAL CIVIL CONSTRUCTION NOTES.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL COUNCIL 3 SUBDIVISION CODE UNLESS NOTES OTHERWISE (U.N.O.).
- 4. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES, EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- ALL REDUCED LEVELS (R.L.) ARE TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.) AND IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES (mm) U.N.O.
- STAINLESS STEEL STEP IRONS TO BE PROVIDED FOR PITS DEEPER THAN 900 mm. 9. STORMWATER PIT DEPTHS MEASURED FROM TOP OF KERB

DESIGN LOADING

THE	HE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT									
AUS	TRA	LIAN	STANDARDS /	AND LOCAL G	OVERNMENT	ORDINANCES	FOR THE FO	LOWING LOA	DINGS:	
1.	RET	TAINI	NG WALLS							
	a.	RET	AINING WALL	S MAXIMUM A	CCEPTABLE	SURCHARGE	LOADS:			
		-	LIVE LOAD =	CONSTRUCT	ION LIVE LOA	D = 5 kPa				
	b.	WIN	ID LOADS TO	A.S. 1170.2:						
		-	REGION = A2	2						
		-	TERRAIN CA	TEGORY = TC	2					
	- BCA STRUCTURE IMPORTANCE LEVEL = 1									
	- V = 41 m/s (ULS), V = 37 m/s (SLS)									

FOUNDATIONS

STRUCTURES TO BE FOUNDED ON NATURAL OR ENGINEERED FILL WITH THE MINIMUM ALLOWABLE BEARING PRESSURE OF AS BELOW

STRUCTURE	MINIMUM ALLOWABLE BEARING PRESSURE (kPa)
RETAINING WALLS	150
CUSTOM PITS	100

- REFER TO GEOTECHNICAL INVESTIGATION REPORT 86437.02 WILTON NORTH STAGE 1 & SUB-ARTERIAL ROADS PREPARED BY DOUGLAS PARTNERS DATED NOVEMBER 2019.
- DESIGN OF SLEEPER RETAINING WALL PIERS ARE BASED ON THE BELOW FOUNDATION PARAMETERS (GEOTECHNICAL ENGINEER TO CONFIRM FOUNDATION AND BEARING CAPACITY ON-SITE AND DESIGNER NOTIFIED IF ACTUAL FOUNDATIONS DIFFFR)
- a. ROCK: SANDSTONE CLASS 5 WITH MIN. ULTIMATE END BEARING CAPACITY OF 3000 kPa.
- b. CLAY: VERY STIFF WITH MIN. UNDRAINED SHEAR STRENGTH, Cu = 150 kPa.
- c. FILL: ENGINEERING FILL WITH MINIMUM FRICTION ANGLE 28° AND y = 19 kN/m³ AND COHESSION = 0 kPa. 4. DESIGN OF REINFORCED BLOCKWORK RETAINING WALLS IS BASED UPON THE FOLLOWING MINIMUM PARAMETERS:
 - a. RETAINED FILL (ENGINEERED FILL) SHALL HAVE:
 - EFFECTIVE INTERNAL FRICTION ANGLE = 28°
 - EFFECTIVE COHESION = 0 kPa
 - BULK DENSITY = 19 kN/m³
 - b. VERY STIFF CLAY FOUNDATION MATERIAL SHALL HAVE
 - EFFECTIVE INTERNAL FRICTION ANGLE = 28°
 - EFFECTIVE COHESION = 2 kPa
 - BULK DENSITY = 19 kN/m³
 - c. RETAINING WALL IS NOT DESIGNED TO ACCOMMODATE ANY LOADS FROM ADJACENT STRUCTURES.
 - FOUNDATION MATERIAL SHALL BE UNIFORM AND BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THE ABOVE MENTIONED SOIL PARAMETERS AND FOUNDATION CONDITIONS BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE.
- 6. DO NOT BACKFILL RETAINING WALLS UNTIL WALL CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED AND UNTIL SEVEN DAYS HAVE PASSED FOLLOWING PIER FOOTINGS CONCRETE PLACEMENT. BACKFILL SHALL BE PLACED IN NEAR HORIZONTAL LAYERS MAX 300mm THICK (LOOSE) AND COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% (ENSURE FREE DRAINING BACKFILL AND SUB-SOIL DRAINAGE IS IN PLACE).
- ENSURE STABILITY OF ADJACENT STRUCTURES AND PATHS IS MAINTAINED DURING ALL STAGES OF CONSTRUCTION.
- 8. FOOTING LEVELS, WHERE SHOWN, ARE DESIGN ESTIMATES ONLY AND WILL BE ESTABLISHED DURING SITE INSPECTION OF WORK IN PROGRESS
- PRIOR TO ANY EXCAVATION NEAR EXISTING FOOTINGS, THE BUILDER SHALL DETERMINE THE FOUNDING LEVELS OF EXISTING FOOTINGS BY LOCAL INVESTIGATORY EXCAVATION. UNLESS OTHERWISE APPROVED BY THE ENGINEER / SUPERINTENDENT, THE LIMITS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS SET OUT IN THE DETAIL BELOW. Z.O.I. (ZONE OF INFLUENCE) TO BE DETERMINED BY GEOTECHNICAL ENGINEER.

CONCRETE

WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

COMPONENT	EXPOSURE	COMPRESSIVE	COVER *	CEMENT	SPECIFICATION CLASS
	CLASSIFICATION	STRENGTH (MPa)	(mm)	TYPE	
SLEEPER RETAINING	A2	25	75	GP	NORMAL
WALL PIERS					
SLEEPER WALL	A2	32	40	GP	NORMAL
BRIDGING BEAM					
REINFORCED BLOCK	A2	32	50	GP	NORMAL
WORK WALL FOOTING					

SHALL BE PROVIDED.

MAXIMUM AGGREGATE SIZE = 20 mm U.N.O. MINIMUM CEMENT CONTENT = 300 kg/m³

SLUMP DURING PLACING = 80 mm

- FOR CEMENT TYPE REFER TO A.S. 3972.
- FOR CONCRETE SPECIFICATION CLASS REFER TO A.S. 1379. TO PROVIDE DRYING SHRINKAGE TEST RESULTS FROM PRODUCTION ASSESSMENT.
- PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH A.S. 1379.
- NO ADMIXTURES SHALL BE USED IN CONCRETE MIX UNLESS APPROVED BY ENGINEER IN WRITING.
- 6. SUBMIT FOR APPROVAL THE FOLLOWING TO THE ENGINEER CURING PROCEDURE (PVA MEMBRANES NOT PERMITTED) STRIPPING AND BACK PROPPING PROCEDURE DETAILS AND LOCATION OF CONDUITS AND PENETRATIONS
 - CONSTRUCTION JOINT LOCATIONS CONCRETE STRENGTH fc (MPa) IS CHARACTERISTIC STRENGTH AT 28 DAYS
- SURFACE FINISHES : COLUMNS & WALLS - OFF FORM
 - FLOOR SLABS (U.N.O.) MACHINE FLOAT STRIP FOOTINGS - WOOD FLOAT (IF REQUIRED) APRON SLAB - BROOM FINISH
- COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT.
- INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- 10. PLACE CONCRETE CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS SHOWN ON PLAN. DO NOT BREAK OR INTERRUPT
- PLAN REQUIRE APPROVAL FROM STANTEC. 11. CONCRETE PROFILES : BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE THE SLAB THICKNESS.
- IS ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. PROVIDE DRIP GROOVES AT ALL EXPOSED EDGES. CHAMFERS, DRIP GROOVES, REGLETS ETC TO ARCHITECT'S DETAILS.
- 13. MAINTAIN MINIMUM SLAB THICKNESS SHOWN ON PLAN WHERE FALLS OCCUR.
- 14. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
- 15. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.
- 16. CAST-IN FIXINGS, BOLTS ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE ENGINEER.
- DIAMETERS. CONDUITS AND PIPES SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT. 18. SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS ETC. SHOWN ON THE
- DRAWINGS. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 12 mm CLEAR OF SOFFITS OF STRUCTURE. 19. HOLDING DOWN BOLTS SHALL BE HOT DIPPED GALVANISED.
- 20. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNISED TESTING LAB AND SUBMITTED TO STANTEC FOR REVIEW.
- 21. ALL COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO STANTEC FOR REVIEW.
- 22. PROJECT CONTROL TESTING SHALL BE CARRIED OUT ON ALL CONCRETE IN ACCORDANCE WITH A.S. 1379-2007. TEST CYLINDERS ARE TO BE KEPT ON SITE.

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1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3600, A.S. 1379 AND A.S. 3610 CURRENT EDITIONS FOR IN-SITU CONCRETE QUALITY REQUIREMENTS, REFER TO THE FOLLOWING TABLE

* WHERE A CONCRETE SURFACE IS IN CONTACT WITH THE GROUND AN ADDITIONAL 10 mm OF COVER TO REINFORCEMENT

ALL CONCRETE COMPONENTS WITH A SPECIFICATION CLASS DENOTED AS SPECIAL IN THE TABLE ABOVE ARE TO BE

PROPORTIONED TO LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS. DETAILS OF THE PROPOSED MIX TO BE SUBMITTED AND APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE. PRIOR TO COMMENCEMENT CONCRETE SUPPLIER

8. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTIUOUSLY WET FOR A PERIOD OF SEVEN (7) DAYS, UNLESS SPECIIED OTHERWISE. APPROVED SPRAY ON CURING COMPOUNDS THAT COMPLY WITH A.S. 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER TO MANUFACTURERS SPECIFICATIONS). POLYTHENE SHEETING OR NET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM WIND AND TRAFFIC. CURING IS TO

THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE

SUCCESSIVE POURS SUCH THAT COLD JOINTS OCCUR. ANY REVISIONS OR ADDITIONS TO CONSTRUCTION JOINTS SHOWN ON

SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. NO FINISH WHICH DECREASES COVER

12. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

17. CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE THIRD OF THE SLAB DEPTH AND SPACED AT NOT LESS THAN 3 7.

STRUCTURAL STEEL

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH CURRENT EDITIONS OF A.S. 5100.6, A.S./N.Z.S. 1554-1 AND 2 AND A.S. 4600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. REFER ALSO TO THE STRUCTURAL STEELWORK SECTION OF THE SPECIFICATIONS.

ALL STEEL SHALL COMPLY WITH THE FOLLOWING U.N.O

	GRADE (MPa)	TO COMPLY WITH
SILL IIFL		AUSTRALIAN STANDARD
VELDED SECTION	300	A.S./N.Z.S. 3679.2
ROLLED SECTION	300	A.S./N.Z.S. 3679.1
SHS AND RHS	450	A.S./N.Z.S. 1163
CHS	250 / 350	A.S./N.Z.S. 1163
LAT BAR	300	A.S./N.Z.S. 3679.1
STANDARD PLATE	250	A.S./N.Z.S. 3678

3. STANDARD TOLERANCE ±1mm

- THE CONTRACTOR SHALL UNLESS SPECIFIED ELSEWHERE:
- a. PROVIDE AND EMPLOY ANY ADDITIONAL TEMPORARY BRACING ETC. NECESSARY TO ADEQUATELY HOLD STEELWORK IN POSITION DURING CONSTRUCTION.
- b. PROVIDE ALL PACKS, CLEATS, BOLTS (INCL. H.D. BOLTS) ETC. REQUIRED FOR TEMPORARY AND PERMANENT ERECTION OF STEELWORK AND FOR ATTACHMENT OF TIMBER AND MISCELLANEOUS FRAMING. c. SUBMIT TWO (2) COPIES OF WORKSHOP DRAWINGS TO THE ENGINEER FOR PERUSAL. FABRICATION SHALL NOT
- COMMENCE WITHOUT A WRITTEN RESPONSE. MINIMUM SURFACE TREATMENT REQUIREMENTS OF ALL STRUCTURAL STEELWORK SHALL BE AS FOLLOWS U.N.O :
- a. EXTERNAL STEELWORK (I.E. EXPOSED TO CLIMATE) HOT-DIP GALVANISED TO A.S./N.Z.S. 4680.
- 6. PROPRIETARY ITEMS (E.G. PURLINS, ROOF/WALL SHEETING, BOLTS ETC.) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
- 7. ALL CONNECTIONS SHALL BE WELDED UNLESS SHOWN OTHERWISE.
- MINIMUM WELDING REQUIREMENTS IF NOT OTHERWISE SPECIFIED SHALL BE AS FOLLOWS: a. ALL WELDING AND WELD PREPARATION SHALL BE TO A.S./N.Z.S. 1554.1 WELD CATEGORY SP USING E48XX ELECTRODES
- U.N.O. b. ALL WELDS SHALL BE 6.0 mm CONTINUOUS FILLET WELDS (CFW) U.N.O.
- c. ALL WELDING SHALL BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH A.S./N.Z.S. 1554.1.
- d. INSPECTION OF ALL WELDS 100% VISUALLY SCANNED, ALL TO A.S./N.Z.S. 1554.1 UNLESS NOTED OTHERWISE 9. SITE WELDS WHERE NOTED IN THE DOCUMENTATION SHALL BE THOROUGHLY WIRE BRUSHED CLEANED AND PAINTED IN
- ACCORDANCE WITH THE SPECIFICATION. 10. ALL BOLTS, NUTS AND WASHERS, INCLUDING HOLD DOWN BOLTS, CAST-IN FERRULES, CAST-IN PLATES AND MASONRY
- ANCHORS ARE TO BE HOT DIP GALVANISED U.N.O. ALL GALVANISED COMPONENTS TO BE CAST INTO CONCRETE MUST BE PASSIVATED BOLT TYPES SHALL BE AS FOLLOWS: 11
- a. 4.6/S COMMERCIAL BOLTS TO A.S. 1111 SNUG TIGHTENED. b. 8.8/S - HIGH STRENGTH STRUCTURAL BOLTS TO A.S./N.Z.S. 1252 SNUG TIGHTENED.
- c. 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS TO A.S./N.Z.S. 1252 FULLY TENSIONED IN ACCORDANCE WITH A.S. 4100 REQUIREMENTS AS A BEARING JOINT.
- d. 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS TO A.S./N.Z.S. 1252 FULLY TENSIONED IN ACCORDANCE WITH A.S. 4100 REQUIREMENTS AS A FRICTION JOINT. SURFACE TREATMENT IN ACCORDANCE WITH STRUCTURAL STEEL NOTE 13. ALL STRUCTURAL STEEL FIXING DETAILS ARE TO BE BASED ON A.S.I. STANDARDISED STRUCTURAL CONNECTIONS U.N.O. ALL
- BOLTS SHALL BE M20 CLASS 8.8/S U.N.O. MINIMUM EDGE DISTANCE FOR STANDARD SIZED BOLT HOLE WHERE THE EDGE DISTANCE IS MEASURED FROM THE CENTRE OF A HOLE TO THE EDGE OF A PLATE OR ROLLED SECTION SHALL BE: 1.50df FOR MACHINE CUT, SAWN, PLANED OR ROLLED EDGES U.N.O.
- 13. ALL PLATES TO BE FROM STANDARD SQUARE EDGE FLATS U.N.O.
- 14. THE CONTACT SURFACES FOR TF TYPE BOLTED CONNECTIONS SHALL BE CLEAN "AS ROLLED" AND NOT PAINTED. FULLY TENSION BOLTS BY THE "PART TURN METHOD OF TIGHTENING" OR BY LOAD INDICATING WASHERS.
- EDGES TO BE PROTECTIVE TREATED SHALL BE ROUNDED TO A RADIUS OF 1.5mm UNLESS OTHERWISE SPECIFIED.
- 16. PASSIVATE GALVANISED STEEL TO BE IN CONTACT WITH CONCRETE BY DIPPING IN 0.2% SODIUM DICHROMATE SOLUTIONS. PRIME CONCRETE ENCASED STEEL WORK IN ACCORDANCE WITH SPECIFICATION AND WRAP WITH FGW 41 MESH WITH 20mm MINIMUM COVER. THICKNESS OF ENCASEMENT TO BE AS DETAILED. WHERE PAINTED STEEL WORK IS TO BE PARTLY ENCASED IN CONCRETE EXTEND WHOLE PAINT SYSTEM 50mm INTO CONCRETE.

EXISTING SERVICES

- 1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES. THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY, NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS AREA TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTORS EXPENSE.
- 4. CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
- THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT
- 6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AND MAINTAINED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.

		Drawn BAH	Date 20/11/2024	Client LANDCOM
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assume any responsibility or liability whatsoever to any third	Stantec Australia Pty Ltd ABN 17 007 820 322	Verified JJ	Date 08/03/2025	
party arising out of any use or reliance by third party on the content of this document.	Ground Floor, 16 Burelli Street Wollongong NSW 2500 Tel: 02 4231 9600	Approved		SHEET 1 OF 2
	Web: www.stantec.com/au	CSH	17/03/2025	

REINFORCEMENT

ALL REINFORCING BARS SHALL BE GRADE D500N TO A.S./N.Z.S. 4671 UNLESS NOTED OTHERWISE. ALL MESH SHALL BE GRADE 500L TO A.S./N.Z.S. 4671 AND SHALL BE SUPPLIED IN FLAT SHEETS. UNLESS NOTED OTHERWISE CLASS L REINFORCEMENT SHALL NOT BE USED. WHERE APPLICABLE, NOMINATED BAR SHAPES ARE TO A.S. 1100.501. REINFORCEMENT NOTATION SHALL BE SHOWN AS FOLLOWS:

2.

1. REINFORCEMENT QUALITY AND NOTATION

	REINFORCEMENT DESIGNATION						
SYMBOL	BAR TYPE	STRENGTH GRADE	DUCTILITY CLASS	TO COMPLY WITH AUSTRALIAN			
		(MPa)		STANDARDS			
S	STRUCTURE GRADE	250	NORMAL	A.S./N.Z.S. 4671/2001			
	DEFORMED RIB BAR						
Ν	HOT ROLLED DEFORMED	500	NORMAL	A.S./N.Z.S. 4671/2001			
	RIB BAR						
R	PLAIN ROUND SAR	250	NORMAL	A.S./N.Z.S. 4671/2001			
RL	RECTANGULAR MESH OF	500	LOW	A.S./N.Z.S. 4671/2001			
	DEFORMED RIB BAR						
SL	SQUARE MESH OF	500	LOW	A.S./N.Z.S. 4671/2001			
	DEFORMED RIB BAR						
I-TM	TRENCH MESH	500	LOW	A.S./N.Z.S. 4671/2001			

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		— BAR S
		— BAR S
		— DUCTI
L		— MESH

SPACING IN 100 mm SIZE (mm) ILITY CLASS · MESH TYPE

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. 3. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH A.S. 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR. AS SHOWN IN THE FOLLOWING TABLE:

BAR SIZE	LAP	
2/ 11 (0122	LENGTH	
N10	500	
N12	600	
N16	800	
N20	1000	
N24	1200	
N28	1400	

MESH SHEETS SHALL BE LAP-SPLICED SO THAT THE TWO OUTERMOST TRANSVERSE BARS OF ONE SHEET OVERLAP AT LEAST THE TWO OUTERMOST BARS OF THE OTHER SHEET.

ALL PENETRATIONS TO HAVE 2-N16 TRIMMER BARS TO EACH FACE. U.N.O. EXTEND TRIMMERS 800 mm BEYOND PENETRATION. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.

7. FABRIC SHALL BE LAPPED TWO TRANSVERSE WIRES PLUS 25 mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE. 8. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400

mm UNLESS NOTED. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.

10. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 m CENTRES BOTH WAYS, AND 800 mm EACH WAY FOR FABRIC. WHEN POURED ON GROUND AS FORMWORK PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC TIPPED STEEL CHAIRS SHALL NOT BE USED ON EXPOSED FACES IN EXPOSURE CLASSIFICATION B1, B2 AND C ONLY PLASTIC OR CONCRETE CHAIRS.

11. AT EXTERNALLY EXPOSED SURFACES, NO METALLIC ITEMS INCLUDING FORM BOLTS, FORM SPACERS, METALLIC BAR CHAIRS AND TIE-WIRE ARE TO BE PLACED IN THE COVER ZONE. 12. SITE BENDING OF REINFORCEMENT SHALL BE AVOIDED IF POSSIBLE. WHERE SITE BENDING IS UNAVOIDABLE IT SHALL BE CARRIED OUT COLD, WITHOUT THE APPLICATION OF HEAT, AND IN ACCORDANCE WITH THE PRACTICE NOTE RPN1 OF THE

STEEL REINFORCEMENT INSTITUTE OF AUSTRALIA. 13. ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION AND INSPECTED BY A STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

14. THE STRUCTURAL ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED FROM THE STRUCTURAL ENGINEER. 15. GALVANISING TO BE A MINIMUM OF 600 micron.

16. DO NOT CUT REINFORCEMENT AFTER IT HAS BEEN GALVANISED.

DRMATION CENTRE	NOT TO BE USED FOR CONSTRUCTION PURPOSES						
APPLICATION	DATUM		Scale	Size			
OTES	AHD	GDA 2020	AS SHOWN		A1		
	Drawing Number						
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PILING

- SECTION 7 OF A.S. 2159 UNO. PILES SHALL BE CONSTRUCTED TO THE FOLLOWING TOLERANCES:
- OUT OF POSITION ± 75mm
- INCLINATION 1%
- 3. THE BASE OF PILE SHALL BE FREE OF LOOSE MATERIAL AND DEBRIS AT THE TIME OF PLACING CONCRETE.
- THE SIDES OF THE PILE HOLE IN ROCK SHALL BE CLEANED OF ALL SIDEWALL SMEAR AND OTHER SUBSTANCES THAT WOULD INHIBIT GOOD BONDING BETWEEN THE ROCK AND CONCRETE.
- THE DESIGN GEOLOGICAL PROFILE SHALL BE VALIDATED ON SITE BY THE GEOTECHNICAL REPRESENTATIVE.
- ROCK SOCKET AND FOUNDATION ROCK SHALL BE VERIFIED ON SITE BY THE GEOTECHINAL REPRESENTATIVE PRIOR TO THE 6 PLACEMENT OF CONCRETE.
- CLEAN THE REINFORCEMENT OF ALL LOOSE AND ADHERING FOREIGN MATERIAL BEFORE IT IS PLACED.
- 8. IN UNSTABLE GROUND CONDITIONS IT IS RECOMMENDED TO USE TEMPORARY STEEL CASING TO WITHSTAND GROUNDWATER
- UNTIL THE CONCRETE IS POURED. THE CASING IS TO BE SYSTIMATICALY REMOVED AFTER THE CONCRETE IS PLACED. 9. PEG THE POSITION OF EACH PIER AND ESTABLISH A GRID OF RECOVERY PEGS TO ENABLE THE SETTING OUT TO BE CHECKED
- AT ANY TIME. ESTABLISH PERMANENT BENCH MARK FOR CHECKING LEVELS AND FOR ASCERTAINING THE LENGTH OF PIERS. 10. AFTER COMPLETION OF PIERS AND PRIOR TO CONSTRUCTION OF PIERS FOUNDATION BEAMS, A SURVEY TO BE CARRIED OUT BY A REGISTERED SURVEYOR TO DETERMINE PLAN POSITION OF ALL PIERS. THIS SURVEY BE MADE AVAILABLE TO THE
- SUPERINTENDENT AT LEAST 2 WORKING DAYS PRIOR TO PIERS CONTRACTOR LEAVING SITE. 11. PILES SHALL BE CONCRETED AS SOON AS PRACTICABLE. COMMENCE CONCRETING WITHIN 24 HOURS OF THE RELEASE OF THE PLACING CONCRETE HOLD POINT AND BEFORE ROCK SOCKET PROPERTIES ARE IMPAIRED AS SPECIFIED BY THE GEOTECHNICAL REPRESENTATIVE.
- 12. CONCRETE SHALL BE PLACED IN A CONTINUOUS PROCESS FROM THE TOE LEVEL TO THE TOP OF THE PILE.
- 13. WHERE PRACTICABLE, THE PILE HOLE SHALL BE DEWATERED AND THE PILE CONCRETE PLACED IN THE DRY. OTHERWISE, THE PILE CONCRETE SHALL BE PLACED BY TREMIE METHODS. CONCRETE PLACED BY TREMIE SHALL HAVE A CEMENTITIOUS CONTENT OF NOT LESS THAN 360 kg/m³. A PILE HOLE SHALL BE CONSIDERED DRY IF THERE IS NO VISIBLE WATER INFLOW AND THE DEPTH OF STANDING WATER IS LESS THAN 100mm.
- 14. WHERE SITE GEOLOGICAL CONDITIONS PERMIT, THE GEOTECHNICAL REPRESENTATIVE MAY, AT HIS DISCRETION, DELEGATE THE RELEASE OF HOLD POINTS OR WITNESSING OF PROCESSES TO THE ENGINEER.

FORMWORK

- 1. THE DESIGN, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSEWORK IS THE RESPONSIBILITY OF THE
- BUILDER. 2. DESIGN AND CONSTRUCTION AND STRIPPING TIMES SHALL COMPLY WITH A.S. 3610 AND A.S. 3600 UNLESS OTHERWISE
- APPROVED BY THE ENGINEER. 3. DURING CONSTRUCTION, SUPPORT PROPPING SHALL BE PROVIDED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS INDUCE LOADS IN A SLAB OR BEAM WHICH EXCEED THE DESIGN LOAD FOR STRENGTH OR SERVICEABILITY AT THAT AGE ONCE THE NOMINATED 28 DAY STRENGTH HAS BEEN ATTAINED, THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT IN THE GENERAL NOTES.
- 4. THE FORMWORK SHALL BE DESIGNED TO RELY ON NO RESTRAINT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM THE PROJECT DESIGN ENGINEER.
- FORMWROK SHALL BE DESIGNED TO ACCOMADE MOVEMENTS AND LOAD RE DISTRIBUTION DUE TO POST-TENSIONING. 6. WHERE NECESSARY SPECIAL REQUIREMENTS FOR SEQUENCE OF CONCRETE PLACEMENT AND STRIPPING ARE SET OUT ON
- DRAWINGS. DESIGN INFORMATION CONCERNING THE FOUNDATION FORMWORK SHALL BE DETERMINED FROM THE CONDITIONS EXISTING 7. ON SITE AT THE TIME OF CONSTRUCTION. REFER ALSO TO THE GEOTECHNICAL REPORT WHERE AVAILABLE.
- 8. UNLESS NOTED OTHERWISE PROVIDE UPWARD CAMBER TO FORMWORK OF CANTILEVERS OF L/120, WHERE L IS THE SHORTEST PROJECTION BEYOND COLUMN OR WALL FACE, AND TO FORMWORK OF SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.
- 9. FORMWORK TO BE USED WHEN PREPARING KEYSTONE BASE SLABS TO ENSURE FLAT AND LEVEL BUILDING SURFACE.

CONSTRUCTION PHASE SERVICES

- 1. SHOULD STANTEC BE ENGAGED FOR THE CONSTRUCTION PHASE SERVICES, OBTAIN STANTEC'S WRITTEN INSTRUCTION AT THE FOLLOWING HOLD POINTS:
 - a. PREPARATION OF FOUNDING MATERIAL, INCLUDING PIER BORE HOLES AND BEARING CAPACITY
 - b. REINFORCEMENT PRIOR TO PLACEMENT OF CONCRETE or COREFILLING OF BLOCKWORK c. STEEL AND TIMBER FRAME INSPECTION PRIOR TO SHEETING.
 - d. BACKFILLING ADJACENT TO COMPLETED STRUCTURES.
- 2. PROVIDE MINIMUM 48 HOURS NOTICE FOR ANY REQUIRED INSPECTIONS.

WORKPLACE HEALTH AND SAFETY

- 1. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR CONSTRUCTING THE WORK IN ACCORDANCE WITH THE WORK HEALTH AND SAFETY (WHS) ACT 2011; WHS REGULATIONS 2011; RELEVANT CODES OF PRACTICE, AUSTRALIAN STANDARDS AND OTHER REGULATORY REQUIREMENTS. THE PRINCIPLE CONTRACTOR MUST INFORM ALL STAKEHOLDERS, INCLUDING STANTEC, OF NEW HAZARDS IDENTIFIED IN THE COURSE OF PLANNING AND UNDERTAKING THE WORKS.
- DURING THE DESIGN OF THE STRUCTURE STANTEC HAVE IDENTIFIED RESIDUAL HAZARDS RELATING TO THE DESIGN OF THE 2. STRUCTURAL WORKS THAT WE CONSIDER TO BE UNUSUAL OR NON-TYPICAL. HAZARDS WHICH ARE NORMAL WORKPLACE HAZARDS, ARE TO BE MANAGED BY PERSONS IN CONTROL OF THE WORKPLACE THROUGH A WHS SYSTEM TO MANAGE THE NORMAL HAZARDS ASSOCIATED WITH CONSTRUCTION, USE AND MAINTENANCE OF THE STRUCTURE. THE RESIDUAL HAZARDS IDENTIFIED ON STANTEC DRAWINGS ARE NOT AN ENTIRE ASSESSMENT OF HAZARDS, AND DO NOT RELIEVE OTHER PARTIES OR STAKEHOLDERS OF THE THEIR RESPONSIBILITY UNDER THE WHS ACT 2011, WHS REGULATIONS 2011, AND THE CODE OF PRACTICE FOR SAFE DESIGN OF STRUCTURES.

\ S2 /

- TEMPORARY BRACING AND SUPPORT OF STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE 3 MAINTAINED DURING ALL STAGES OF CONSTRUCTION.
- 4. TEMPORARY FLAGGING TO BE PLACED ALONG THE TOP OF ALL RETAINING WALLS GREATER THAN 1m HIGH DURING CONSTRUCTION.
- 5. RESIDUAL HAZARDS ARE SHOWN ON THE DRAWINGS IDENTIFIED BY: \setminus S1 /
- 6. CONTRACTOR TO ENSURE TEMPORARY FLAGGING IS PLACED AT THE TOP OF RETAINING WALLS GREATER THAN 1m DURING CONSTRUCTION

19/03/2025 ISSUED FOR APPROVAL RAH | JJ CSF Des. Verif. Appd. Date Description

BRICKWORK AND BLOCKWORK

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3700. 2. STRENGTHS OF MASONRY UNITS AND TYPE OF MORTAR SHALL BE AS FOLLOWS:

ELEMENT	MATERIAL	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (F'c)	MORTAR (CEMENT: LIME:SAND) (F'c)
BLOCKS	CONC	15 Mpa	1:0.25:3

- 3. REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING, UNLESS OTHERWISE NOTED:
- a. BLOCKS SHALL BE STRENGTH GRADE 15, CONFORMING TO A.S. 2733. b. MORTAR SHALL COMPRISE 1 CEMENT:0.25 LIME:3 SAND.
- PROTRUDING MORTAR FINS PRIOR TO GROUTING.
- BARS
- 4

MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.

c. PROVIDE CLEANOUT HOLES 100 mm SQUARE MINIMUM AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE

d. CORE FILLING GROUT SHALL BE: F'c = 20 MPa, MINIMUM CEMENT CONTENT = 300 kg/m, SLUMP = 230 ± 30 mm. e. REINFORCEMENT PROJECTING FROM FOUNDATION OR SLABS INTO CORES, SHALL BE SET ACCURATELY IN PLACE USING TEMPLATES TO ALIGN WITH THE CENTRE OF THE LENGTH OF CORES AND WITH COVER AS NOTED. WHERE HORIZONTAL BARS ARE INDICATED, THE WEBS OF THE BLOCKS BELOW THE BARS SHALL BE CUT DOWN TO ACCOMMODATE THE

f. GROUT ALL CORES IN REINFORCED BLOCKWORK UNLESS OTHERWISE NOTED. HEIGHT OF BLOCKWORK TO BE GROUTED ON ONE DAY SHALL BE 2400 mm. GROUT SHALL BE PLACED IN LIFTS OF 1200 mm MAXIMUM AND COMPACTED BY POKER VIBRATOR. A SHORT TIME SHOULD ELAPSE BETWEEN SUCCESSIVE LIFTS TO ALLOW PLASTIC SETTLEMENT TO OCCUR. g. PROVIDE 50 mm COVER FROM THE OUTSIDE OF THE BLOCKWORK UNLESS NOTED.

BACKFILL TO RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN AT BASE OF WALL. ALL GRANULAR BACKFILL TO BE FULL HEIGHT, MIN 300 WIDE & WRAPPED IN A24 NON-WOVEN GEOTEXTILE.DO NOT BACKFILL UNTIL 14 DAYS AFTER GROUTING, OR IF APPLICABLE, AFTER RESTRAINING SLAB OVER HAS BEEN POURED AND CURED FOR 7 DAYS. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.

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BAH	20/11/2024	
Checked MPR	Date 19/03/2025	Project NORTH WILTON
Designed BAH	Date 20/11/2024	SALES AND INFO
Verified	Date 08/03/2025	
Approved	00/00/2020	STRUCTURAL NO SHEET 2 OF 2
CSH	17/03/2025	

DRMATION CENTRE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES					
APPLICATION	DATUM AHD	GDA 2020	Scale AS SHOWN	HOWN A1		
UTES	Drawing Number	F	Revision			
	304001108-001-C3010			А		

1-D1-RET_WALLS DATE PLOTTED Ř. 0RMWATER; XR-3 108-001-C3011 d 1-E1-STO 108-01 XR-304001 -D1-BASE; 300 DA Te 08-01 -E1-BAS 108-01 XR-30/ : \\Au2

Drawn BAH	Date 20/11/2024		
Checked MPR	Date 19/03/2025	Project NORTH WILTON	Status FOR APPROVAL
Designed BAH	Date 20/11/2024	SALES AND INFORMATION CENTRE	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Verified CSH	Date 08/03/2025		DATUM Scale Size AHD GDA 2020 1:200 A1
Approved		RETAINING WALL LATOOT PLAN	Drawing Number Revision
CSH	17/03/2025		304001108-001-C3011 A

NOTE 1. REFER TO GROUP GSA PLANS SET FOR LANDSCAPE DETAILS

LEGEND							
	EXISTING LOT BOUNDARY						
10.0	EXISTING CONTOURS (0.5m)						
10.0	DESIGN CONTOURS (0.5m)						
0. <u>5</u> m	PROPOSED GABION WALL						
0.6m	PROPOSED RETAINING WALL						
	EXISTING STORMWATER NETWO)RK					
∘ FP	FLUSH POINT FOR SUBSOIL DRA	INAGE					
SS	PROPOSED SUBSOIL DRAINAGE						
	EXISTING SEWER						
\bigcirc	EXISTING TREE TO BE RETAINED						

SCALE 1:200 (A1), 1:400 (A3) DATE PLOTTED: 19 March 2025 3:14 PM BY : HENDERSON, BRC

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171.40 171.20 171.00 170.80 170.60 170.60			_	_	_								17 17 17 17 17 17 17
170.400													17
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BOW LEVELS	170.039	170.129	170.219	170.308	170.381	170.488	170.578	170.668	170.723	170.890	171.326	171.762	
WALL HEIGHTS	-0.534	-0.607	-0.681	-0.754	-0.813	-0.9	-0.974	-1.047	-1.092	-0.925	-0.489	-0.053	
CHAINAGE	0.000	2.000	4.000	6.000	7.608	10.000	12.000	14.000	15.230	16.000	18.000	20.000	
LONGITUDINAL SECTION - RW 01													

SCALES: HORIZ 1:200 VERTICAL 1:100

LONGITUDINAL SECTION - RW 04 SCALES: HORIZ 1:200 VERTICAL 1:100

SCALES: HORIZ 1:200 VERTICAL 1:100

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Re	v. Date	Description	Des.	Verif.	Appd.	

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LONGITUDINAL SECTION - RW 06 SCALES: HORIZ 1:200 VERTICAL 1:100

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LEVELS	169	169	17(17(17(17(17(17(17(17(17(17(17(
W/ALL	0.118	0.276	0.434	0.561	0.717	0.715	0.791	0.834	-0.8	-0.8	-0.8	-0.8	-0.8
HEIGHTS	Ŷ	Ť)-	')-	ſ	1						
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172.074	172.044	172.027	172.011	171.970	171.959	171.922	171.875	171 814	171.781	171.756	171.696	171.636	171.581	171.556	
-0.526	-0.556	-0.573	-0.589	-0.63	-0.641	-0.678	-0.725	-0 786	-0.819	-0.844	-0.904	-0.964	-1.019	-1.044	
27.865	30.000	31.190	32.000	34.000	34.516	36.000	37.841	40 000	41.167	42.000	44.000	46.000	47.818	48.674	

	0	200	400 600	0 800	1000mm
	SCALE	: 1:10 (A1), 1:20 (A3)		
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SCALE 1:20

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А	19/03/2025	ISSUED FOR APPROVAL	BAH	CSH	CSH	
Rev.	Date	Description	Des.	Verif.	Appd.	

SECTION	2
SCALE 1:20	-

TABLE 1 - SLEEPER RETAINING WALL DIMENSIONS										
				PIER DEPTH 'D' (mm)						
	WALL HEIGHT 'H' MAX (mm)	DIAMETER OF PILE (mm)	FILL ONLY, Dfill (mm)	CLAY ONLY, Dclay (mm)	ROCK ONLY, Drock (mm)	STEEL PC				
	800	450	2400	1500	900	100UC14				
	1200	450	2700	1800	1000	100UC14				

ENCOUNTED ABOVE

NOTE: WHERE FILL AND CLAY ARE ENCOUNTED, THE PIER DEPTH D' = FILL LAYER THICKNESS + Dclay

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Drawn BAH	Date 20/11/2024	Client LANDCOM
Checked MPR	Date 19/03/2025	Project NORTH WILTON
Designed BAH	Date 20/11/2024	SALES AND INFORMATION C
Verified CSH	Date 17/03/2025	
Approved		SHEET 2 OF 2
CSH	17/03/2025	

	0	500	1000	1500	2000mm
	SCALE 1:	20 (A1), 1:40 (A3)			
CENTRE		Status NOT TO BE I	FOR AP	PROVAL	N PURPOSES
DN		DATUM AHD	GDA 2020	Scale AS SHOWN	Size A1
		Drawing Number			Revision

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SCALE 1:100

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