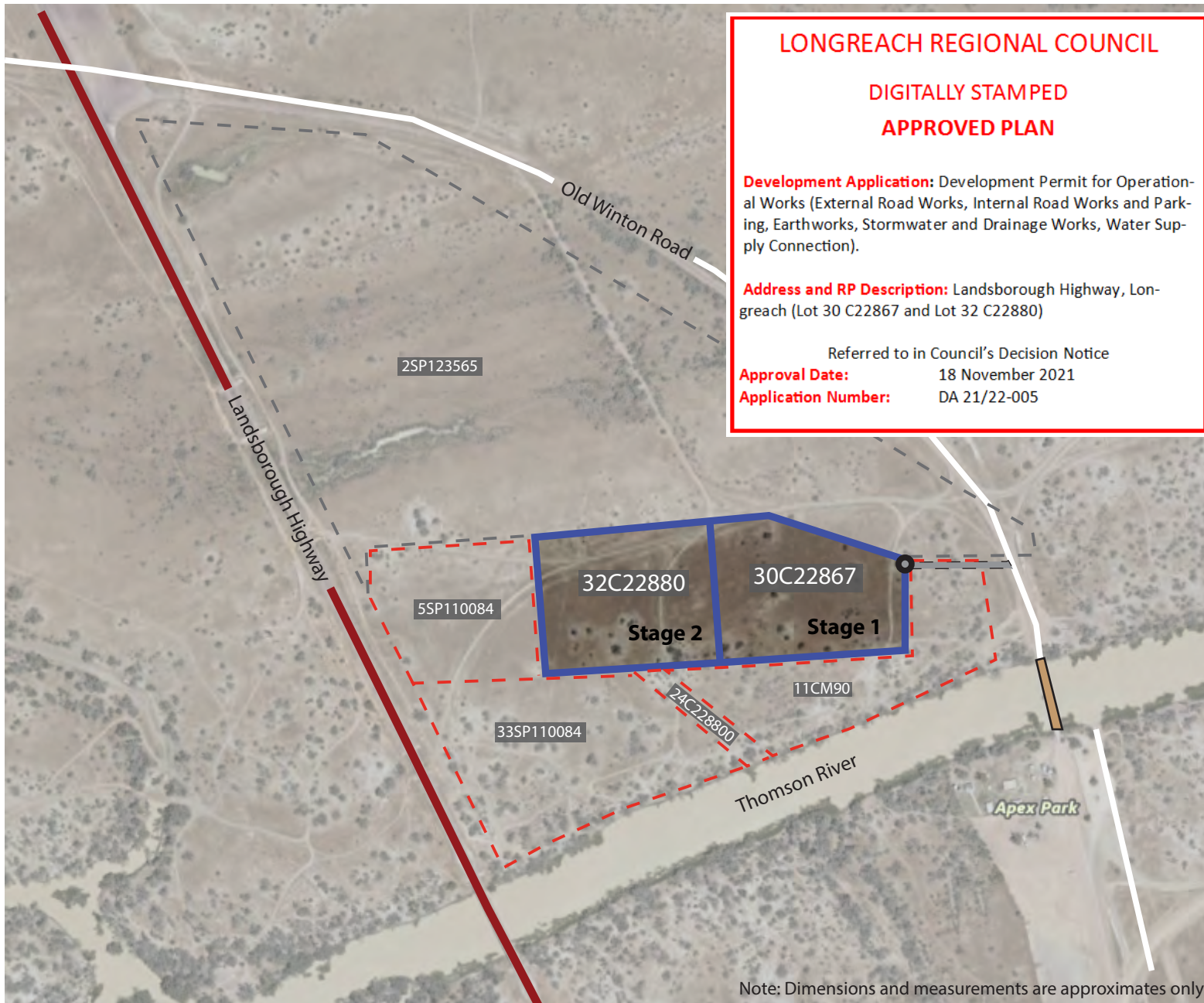


Thomson River Caravan Park Locality Plan

Lot 32 on C22880 and Lot 30 on C22867



Legend

- Site Property Line
- Unallocated State Land
- Reserve Land
- Highway
- Local Road
- Proposed Access Road
- Old Bridge
- Proposed point of connection to reticulated water infrastructure

Locality Plan

Project: Thomson River Caravan Park
Location: Longreach, Queensland
Datum: Geocentric Datum of Australia 1994
Projection: Web Mercator EPSG 102100
Local Authority: Longreach Regional Council



0 100 m

1:6000

Note: Dimensions and measurements are approximates only

THOMSON RIVER CARAVAN PARK

L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730

LONGREACH REGIONAL COUNCIL

DIGITALLY STAMPED
APPROVED PLAN

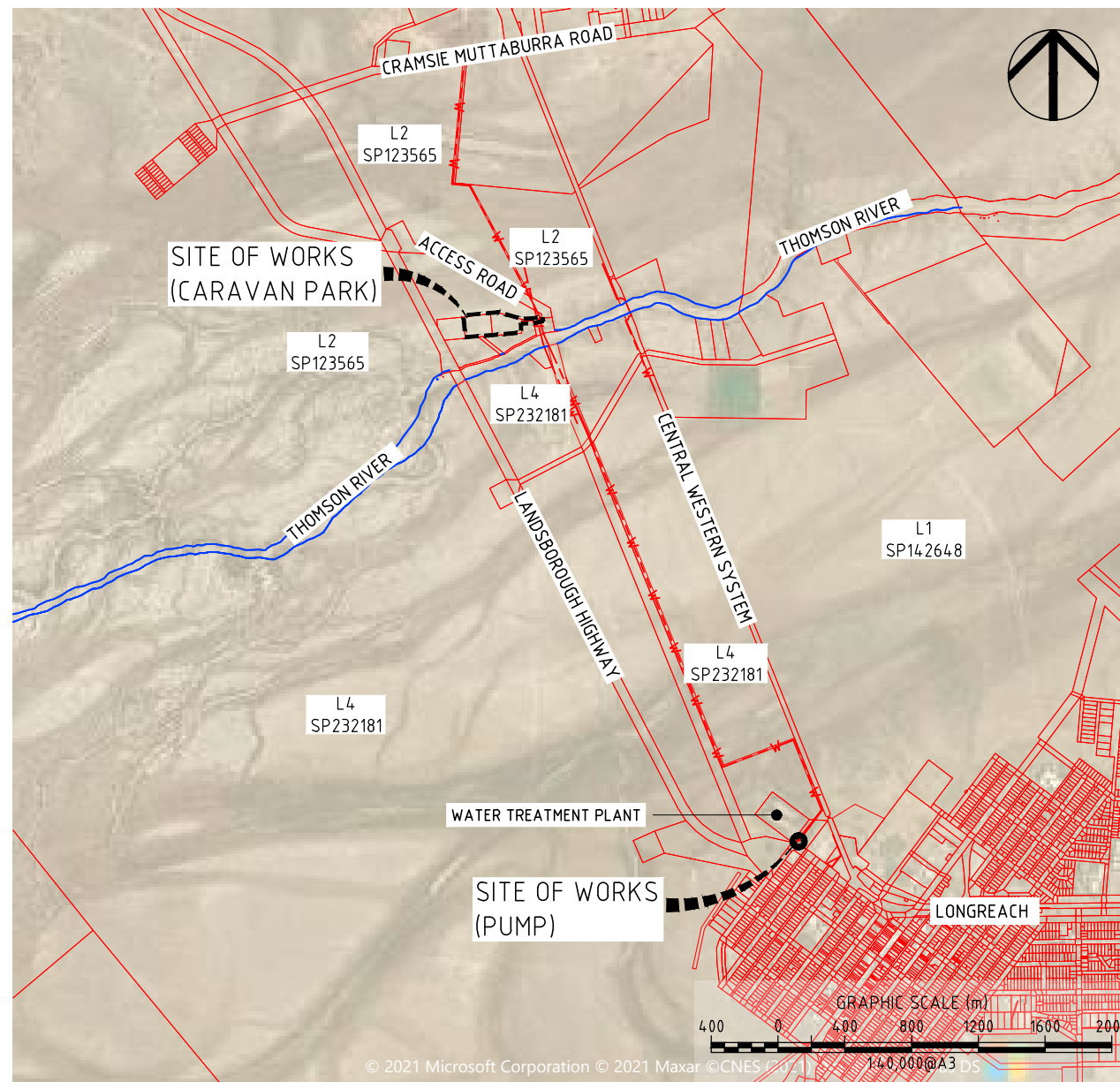
Development Application: Development Permit for Operational Works (External Road Works, Internal Road Works and Parking, Earthworks, Stormwater and Drainage Works, Water Supply Connection).

Address and RP Description: Landsborough Highway, Longreach (Lot 30 C22867 and Lot 32 C22880)

Referred to in Council's Decision Notice

Approval Date: 18 November 2021

Application Number: DA 21/22-005



SHEET NO.	TITLE	REVISION
01	COVER SHEET	A
02	NOTES & DETAILS	A
03	GENERAL LAYOUT PLAN	A
04	ACCESS ROAD LAYOUT PLAN	A
05	ACCESS ROAD LONGITUDINAL SECTION	A
06	BULK EARTHWORKS LAYOUT PLAN	A
07	SITE SECTIONS	A
08	EROSION & SEDIMENT CONTROL NOTES	A
09	EROSION & SEDIMENT CONTROL NOTES & DETAILS	A
10	EROSION & SEDIMENT CONTROL LAYOUT PLAN	A
11	STORMWATER & DRAINAGE MANAGEMENT PLAN	A
12	WATER RETICULATION LAYOUT PLAN	A
13	PUMP LAYOUT PLAN AND DETAILS	A

REVISION/DETAILS		DWN		DATE		DES		DATE	
A	FOR APPROVAL	DJS	08/2021	DJS	08/2021				

SURVEY DATA		ANDREW SECCOMBE		COVER SHEET		JOB NUMBER		DRAWING NUMBER	
DATUM	GDA94	PO BOX 350,	LONGREACH 4730 QLD	ENGINEERING CERTIFICATION (RPEQ)		200109	A	01	OF
MAP GRID	MGA-55	THOMSON RIVER CARAVAN PARK		#	FIELD	NAME	SIGNATURE	DATE	13
HEIGHT ORIGIN	AHD	L30 C22867 LANDSBOROUGH HIGHWAY,	LONGREACH QLD 4730	13697	CIVIL	S. SHAY	<i>S. Shay</i>	23/08/21	
SURVEY BOOKS	-								

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ACS Engineers
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ACS-200109-GEN-01

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GENERAL NOTES

1. THE CONTRACTOR IS TO VERIFY ALL SURFACE LEVELS. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR ACCURATELY ASCERTAINING THE LOCATION OF EXISTING UNDERGROUND AND OVERHEAD SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
3. ALL WORK UNDER THIS CONTRACT SHALL BE CARRIED OUT IN ACCORDANCE WITH REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT 2011.

CONSTRUCTION NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ENGINEERS AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. NO RESPONSIBILITY WILL BE TAKEN FOR DIMENSIONS OBTAINED BY SCALING THESE DRAWINGS.
3. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND NEIGHBOURING STRUCTURES IN A SAFE AND STABLE CONDITION DURING CONSTRUCTION. NO PART SHALL BE OVER STRESSED.
5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT LOCAL GOVERNMENT SPECS AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT GOVERNMENT AUTHORITY.
6. THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF THE WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
7. PROPERTY BOUNDARIES ARE SUBJECT TO CONFIRMATION BY FIELD SURVEY CARRIED OUT BY A REGISTERED SURVEYOR.
8. ALL WORK SHALL BE JOINED NEATLY TO EXISTING FEATURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS AS SPECIFIED OR REQUESTED.
10. THE CONTRACTOR SHALL RESTORE ALL EXTERNAL AREAS TO THE SITE, TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE WORKS.

EARTHWORKS

1. THE CONTRACTOR IS TO STRIP THE CONSTRUCTION AREA OF ALL GRASS, SHRUBS, RUBBISH, DELETERIOUS MATERIAL AND UNSUITABLE TOPSOIL AS NOMINATED BY THE ENGINEER. DISPOSAL OF THIS UNSUITABLE MATERIAL IS TO BE ON SITE. TOPSOIL APPROVED BY THE CLIENT FOR REUSE, IS TO BE STOCKPILED ON SITE AS DIRECTED. BULK EARTHWORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL STANDARDS AND THE REQUIREMENTS OF AS3798.
2. THE CONTRACTOR SHALL PROVIDE DETAILS OF ALL TESTING TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS AND NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED. PRIOR TO WORKS PROCEEDING, PROOF ROLL THE FILL AREA SUBGRADE. REMOVE SOFT AND OR COMPRESSIBLE ZONES AND REPLACE WITH SELECT SITE MATERIAL COMPACTED TO A DENSITY CONSISTENT WITH THAT NOTED FOR THE PROPOSED FILLING.
3. PROOF ROLLING NOMINATED SHALL BE CARRIED OUT USING A SINGLE AXLE HIGHWAY TRUCK WITH A REAR AXLE LOAD NOT LESS THAN 10 TONNES TYRES INFLATED TO 550kPa OR APPROVED EQUIVALENT. EQUIPMENT LABOUR AND LOADING REQUIRED FOR PROOF ROLLING IS TO BE PROVIDED BY THE CONTRACTOR.
4. ALL FILL UNDER FOOTINGS AND SLABS SHALL BE COMPACTED IN LAYERS NOT GREATER THAN 150mm TO 100% STANDARD COMPACTION FOR COHESIVE MATERIALS OR A DENSITY INDEX OF NOT LESS THAN 70% FOR NON COHESIVE MATERIALS.
5. TESTS SHALL BE CONDUCTED ON FILL AS REQUIRED BY THE CERTIFYING ENGINEER TO CONFIRM COMPACTION.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREAS FROM DAMAGE RESULTING FROM STORMWATER RUNOFF. TEMPORARY DIVERSION DRAINS AND OR OTHER DRAINAGE CONTROL DEVICES ARE TO BE IMPLEMENTED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER.
7. IMPORTED FILL MATERIAL SHALL BE GRANULAR FILL. ALL FILL MATERIAL PLACED ON THE SITE COMPRISING ONLY NATURAL EARTH AND ROCK IS TO BE FREE OF CONTAMINANTS (AS DEFINED BY SECTION 11 OF THE ENVIROMENTAL PROTECTION ACT (EPA) 1994), NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS.
8. REFER TO LOCAL AUTHORITY DESIGN AND CONSTRUCTION MANUAL FOR ALLOWABLE CONSTRUCTION TOLERANCES.
9. IMPORTED FILL FOR BUILDING PAD SHALL MEET THE REQUIREMENTS OF AS3798 FOR IMPORTED FILL.
10. BUILDING PAD TO BE KEYED INTO NATURAL SURFACE AFTER TOPSOIL STRIP.

SURVEY

1. THE DATUM FOR ALL LEVELS IS THE AUSTRALIAN HEIGHT DATUM IN METRES AND PROJECTIONS ARE BASED ON GDA94 MGA ZONE 55 COORDINATE SYSTEM.
2. DETAILED SURVEY WAS CARRIED OUT BY HOFFMANN SURVEYORS DRG REF: 64236DS210720SC .
3. PROPERTY BOUNDARIES, WHERE SHOWN, ARE COMPILED FROM THE DCDB. THE ACCURACY OF PROPERTY BOUNDARIES IS NOT TO BE RELIED UPON.
4. SOME SERVICES HAVE BEEN EXPOSED AND LOCATED BUT OTHER SERVICE POSITIONS ARE DERIVED FROM SURFACE FEATURES ONLY. PRIOR TO EXCAVATION THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR DETAILED LOCATION OF ALL SERVICES.

EXCAVATION ADJACENT TO POWER POLES

1. POSSIBLE TRENCH SHORING REQUIREMENTS NEAR POWER POLES TO BE COORDINATED WITH ERGON AND THE APPROPRIATE APPROVALS TO BE OBTAINED FROM ERGON PRIOR TO CONSTRUCTION COMMENCEMENT.
2. ANY TRENCHING REQUIREMENTS ADJACENT TO EXISTING POWER POLES SHALL HAVE THE POWER POLES ADEQUATELY SUPPORTED DURING TRENCHING AND BACKFILLING OPERATIONS. A CERTIFIED ENGINEERING ASSESSMENT OF THE COMPACTION OF BACKFILL MATERIAL IS TO BE PROVIDED TO AND ASSESSED BY ERGON TO ENSURE POLE STABILITY BEFORE REMOVAL OF ADDITIONAL SUPPORT.
3. ALL CONSTRUCTION WITHIN 3m OF OVERHEAD POWER LINES REFER TO 'BS001405R107ver2 ELECTRICITY ENTITY REQUIREMENTS: WORKING NEAR OVERHEAD AND UNDERGROUND ELECTRIC LINES' FROM ERGON ENERGY.

ENVIRONMENTAL

1. THE EXTENT OF CLEARING OF VEGETATION SHALL BE KEPT TO THE ABSOLUTE MINIMUM NECESSARY TO UNDERTAKE THE WORKS.
2. SITE REVEGETATION AND ENVIRONMENTAL REQUIREMENTS SHALL BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL.
3. EROSION AND SEDIMENT CONTROLS ARE TO BE ESTABLISHED IN ACCORDANCE WITH DRAWINGS 08, 09 & 10.

LONGREACH REGIONAL COUNCIL

**DIGITALLY STAMPED
APPROVED PLAN**

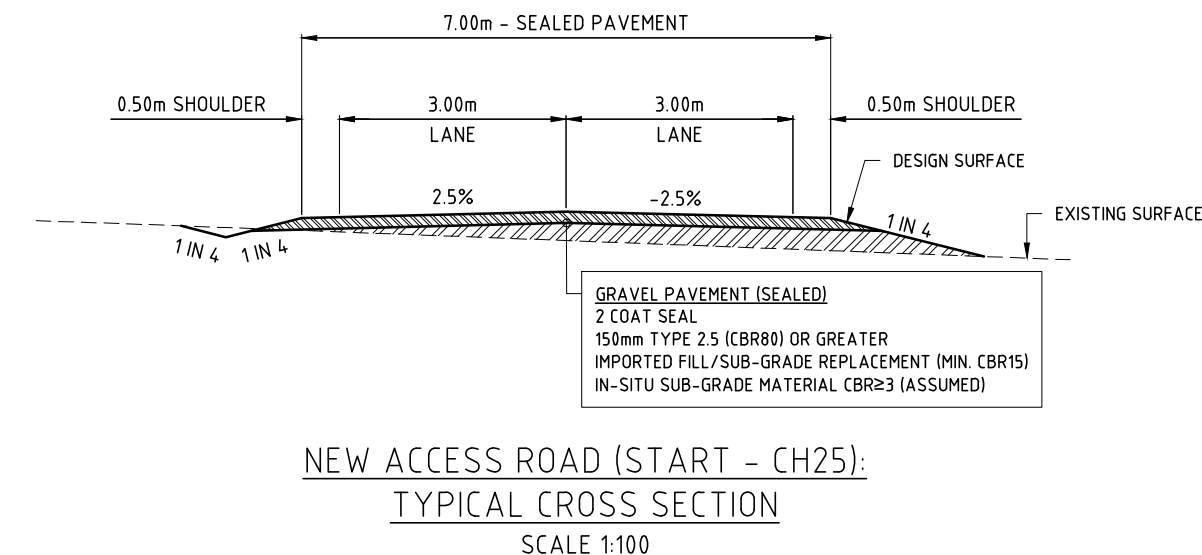
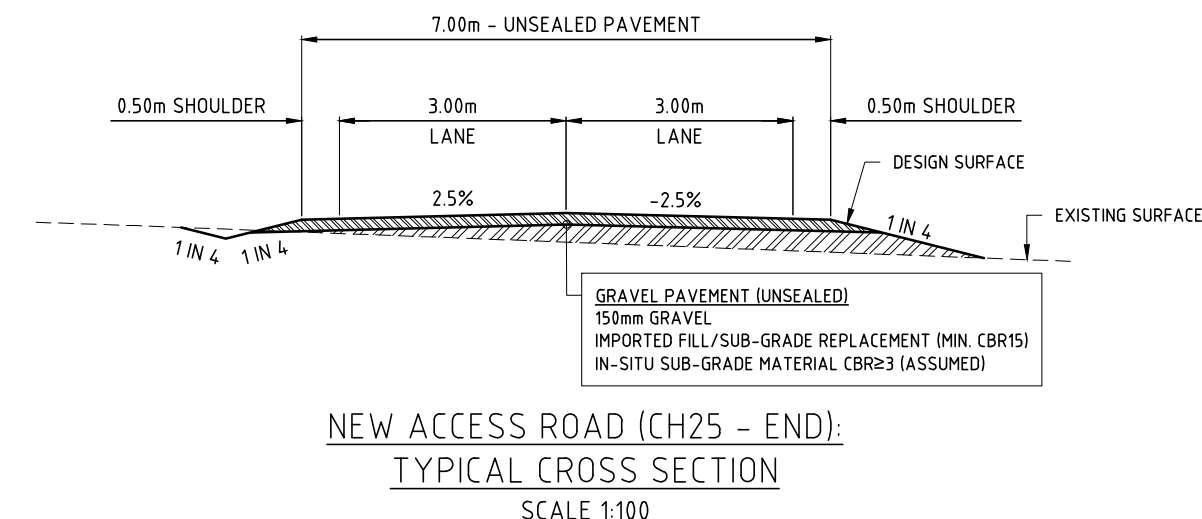
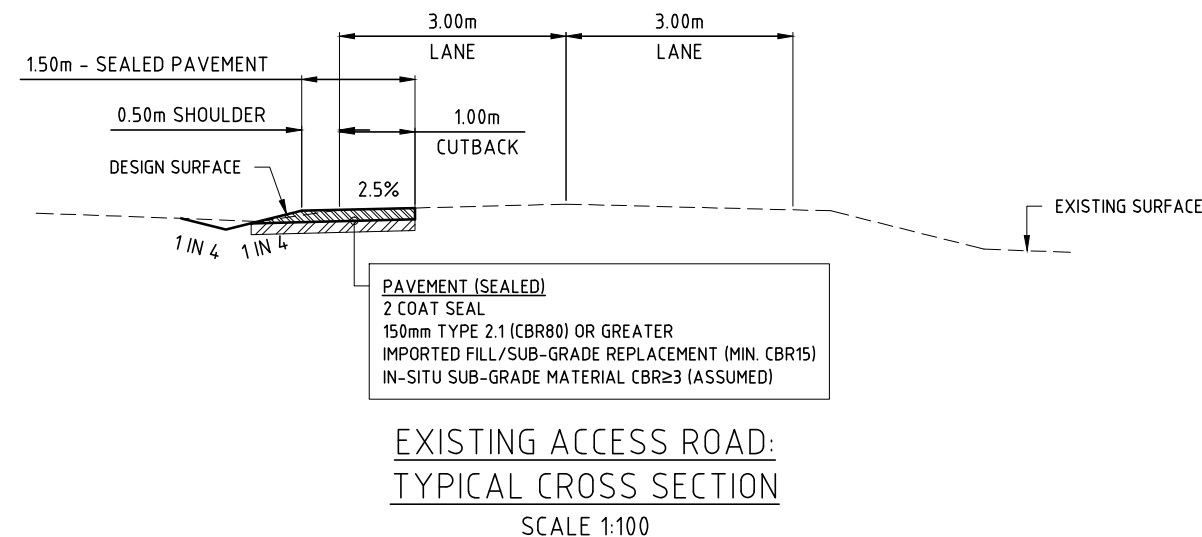
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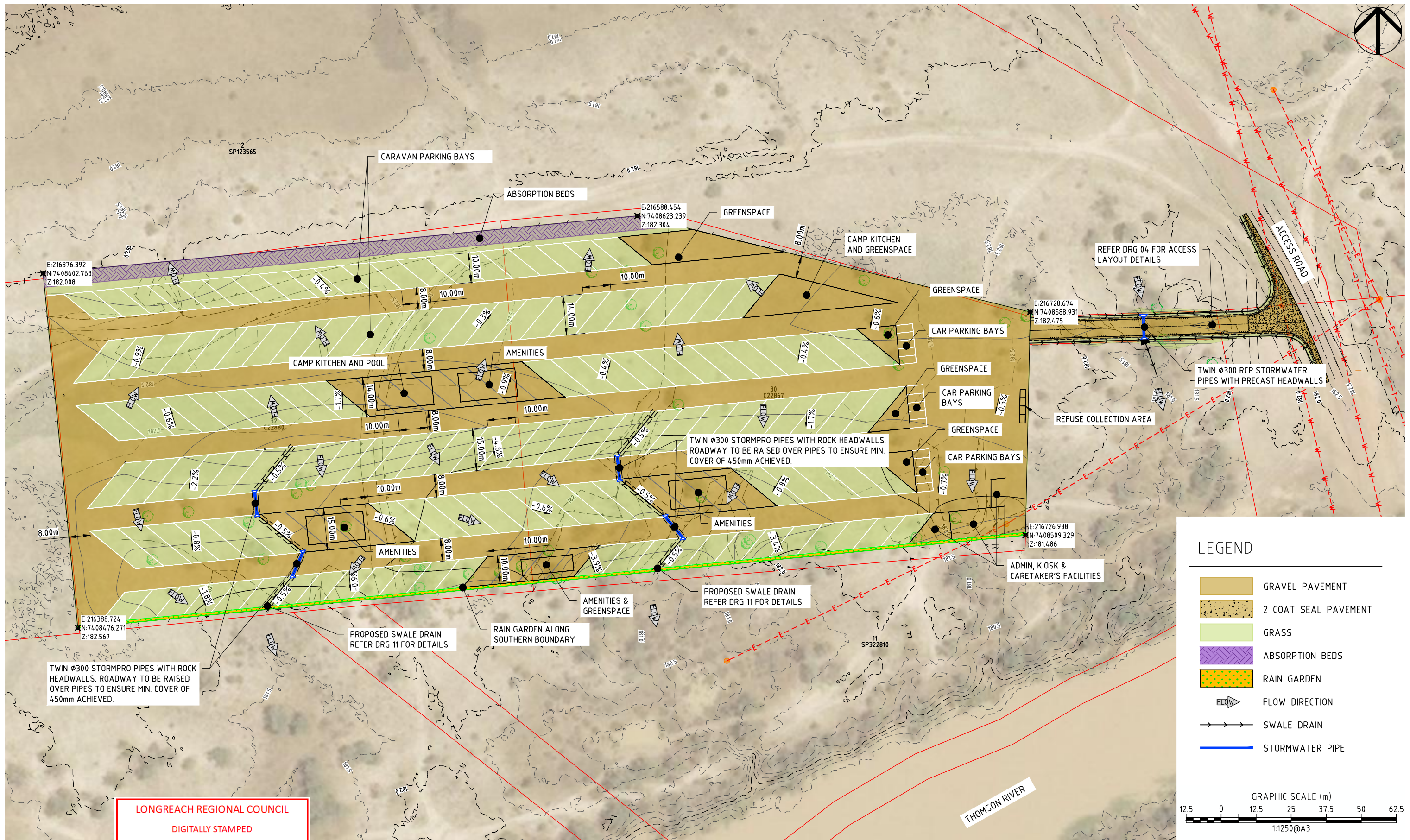
Approval Date: 18 November 2021

Application Number: DA 21/22-005



		SURVEY DATA		ANDREW SECCOMBE		P0 BOX 554 Beaudesert QLD 4285			
		DATUM		PO BOX 350, LONGREACH 4730 QLD		NOTES & DETAILS			
		GDA94				ENGINEERING CERTIFICATION (RPEQ)		JOB NUMBER	
		MAP GRID				# FIELD NAME SIGNATURE DATE		200109	
		MGA-55				13697 CIVIL S. SHAY [Signature] 23/08/21		DRAWING NUMBER	
		HEIGHT ORIGIN		THOMSON RIVER CARAVAN PARK				ACS-200109-GEN-02	
		AHD						A	
		SURVEY BOOKS		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730				02 OF 13	
A FOR APPROVAL		DJS 08/2021		DJS 08/2021					
REVISION/DETAILS		DWN		DATE		DES		DATE	

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						DATUM	GDA94	THOMSON RIVER CARAVAN PARK		#	FIELD	NAME	SIGNATURE	DATE	A OF 13
						MAP GRID	MGA-55	L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		13697	CIVIL	S. SHAY	<i>S. Shay</i>	23/08/21	
						HEIGHT ORIGIN	AHD								
						SURVEY BOOKS	-								
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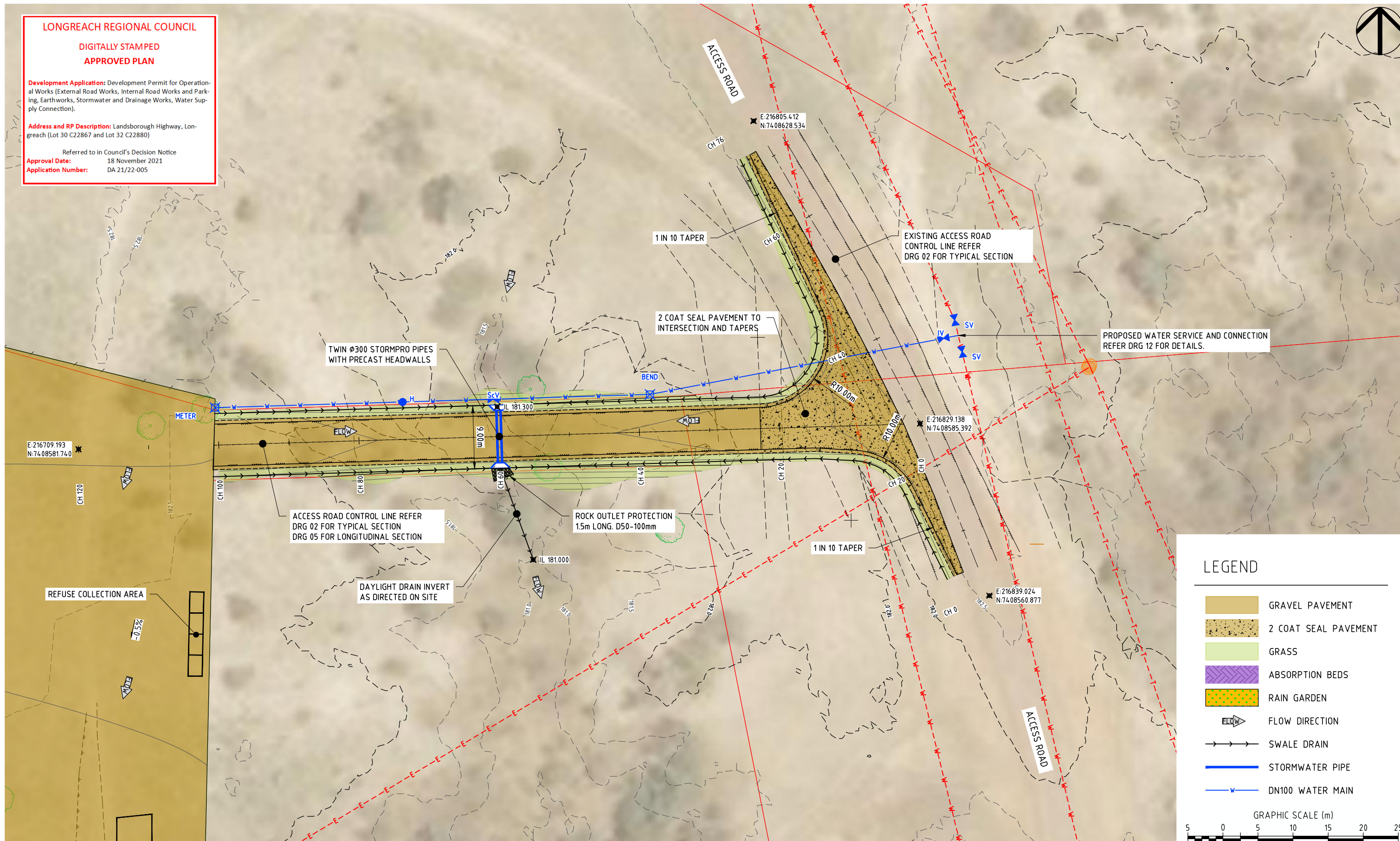
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



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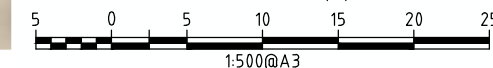
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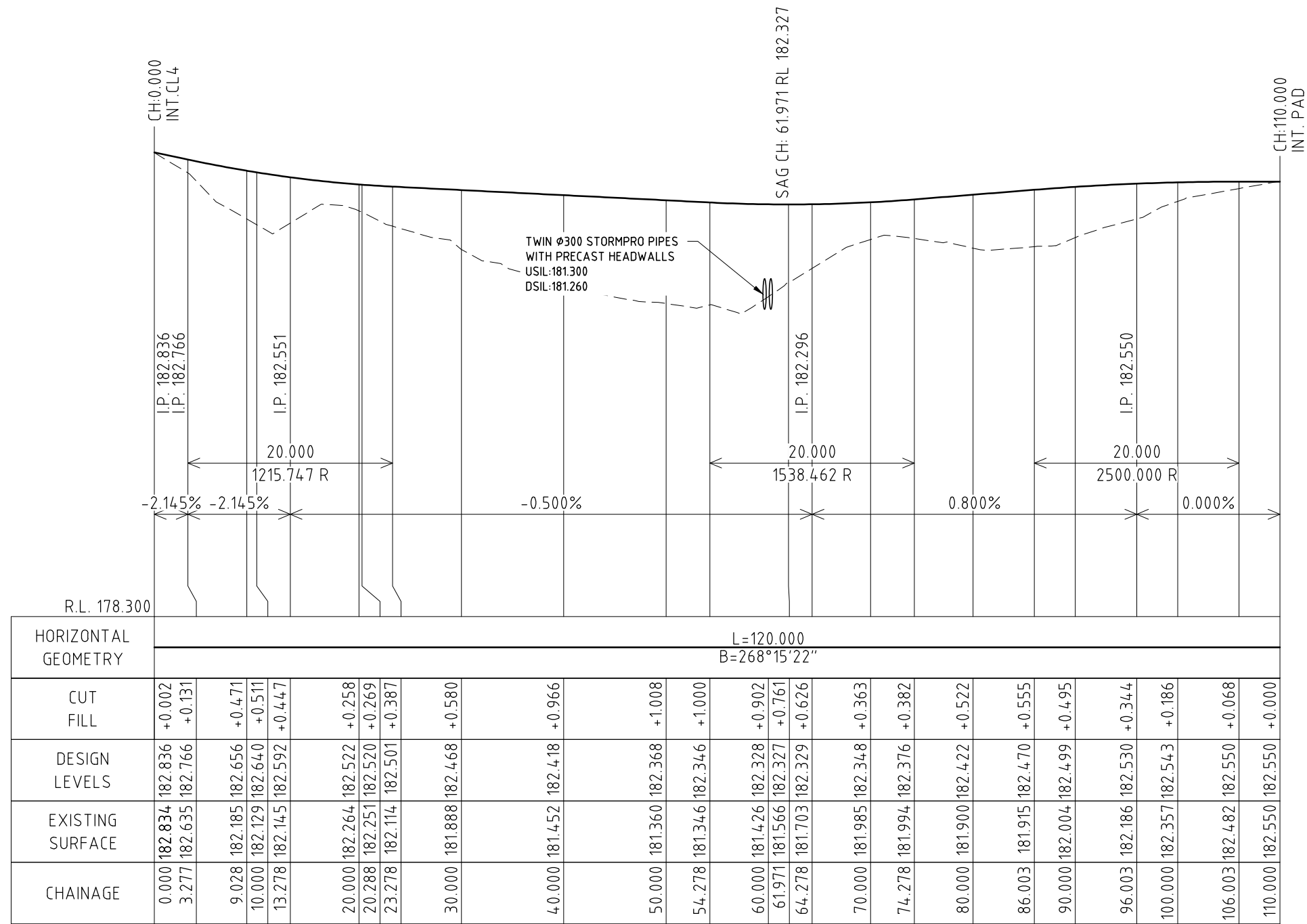
LEGEND

-  GRAVEL PAVEMENT
-  2 COAT SEAL PAVEMENT
-  GRASS
-  ABSORPTION BEDS
-  RAIN GARDEN
-  FLOW DIRECTION
-  SWALE DRAIN
-  STORMWATER PIPE
-  DN100 WATER MAIN

GRAPHIC SCALE (m)



		SURVEY DATA		ANDREW SECCOMBE		ACCESS ROAD LAYOUT PLAN		P0 Box 554 Beaudesert QLD 4285			
		DATUM GDA94		PO BOX 350, LONGREACH 4730 QLD				(07) 5541 3500 www.acsengineers.com.au			
		MAP GRID MGA-55		THOMSON RIVER CARAVAN PARK		ENGINEERING CERTIFICATION (RPEQ)		JOB NUMBER 200109		A	
		HEIGHT ORIGIN AHD		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		# FIELD NAME SIGNATURE DATE		DRAWING NUMBER ACS-200109-GEN-04			
A FOR APPROVAL		DJS 08/2021		DJS 08/2021		13697 CIVIL S. SHAY		23/08/21			
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CL3 CH:0.000 TO CH:120.000
 SCALES: HORIZONTAL 1:500 VERTICAL 1:50

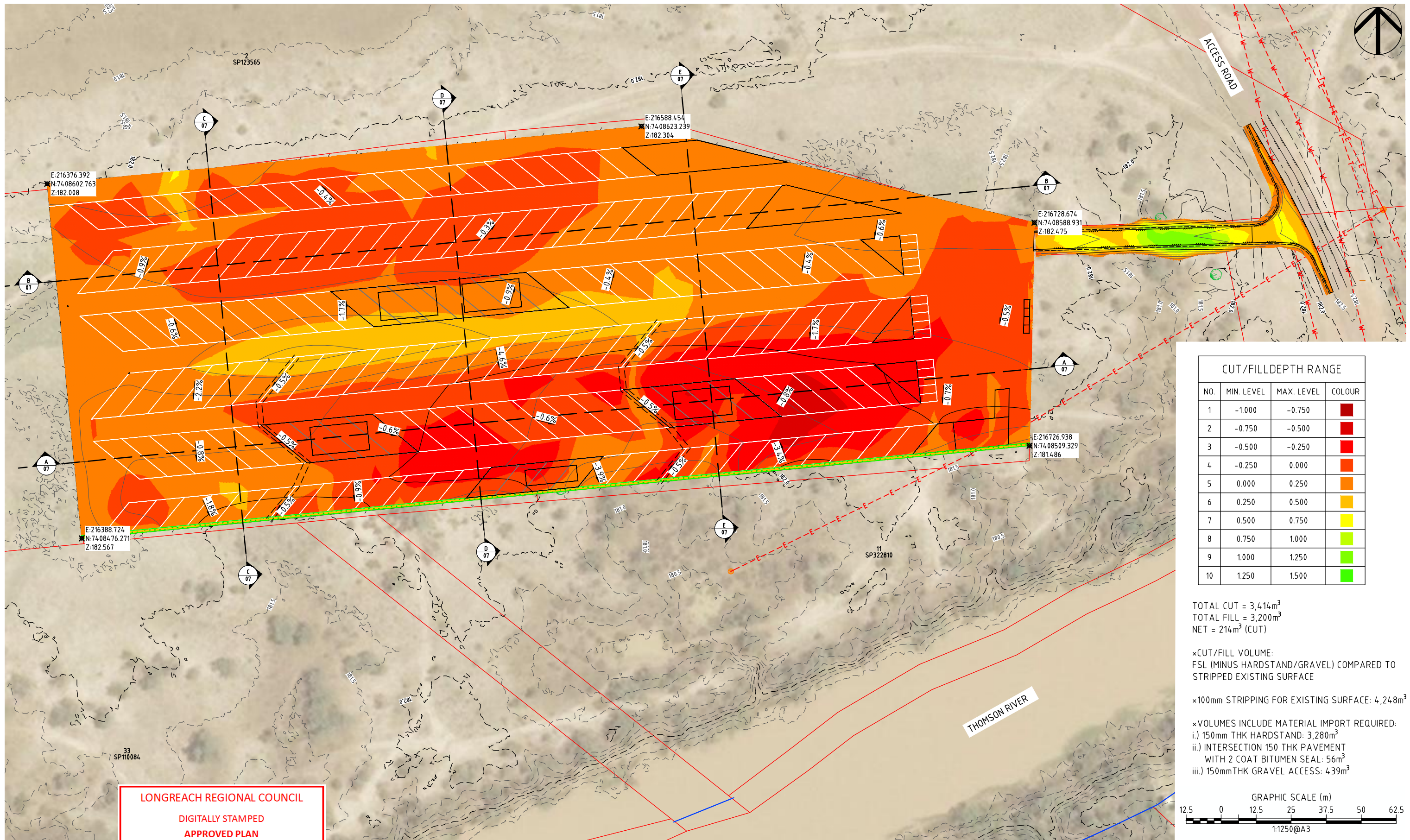
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						SURVEY BOOKS	-			13697	CIVIL	S. SHAY		23/08/21	DRAWING NUMBER ACS-200109-GEN-05	
REVISION/DETAILS						DWN	DATE	DES	DATE					A		05 OF 13



CUT/FILL DEPTH RANGE			
NO.	MIN. LEVEL	MAX. LEVEL	COLOUR
1	-1.000	-0.750	Dark Red
2	-0.750	-0.500	Red
3	-0.500	-0.250	Light Red
4	-0.250	0.000	Orange
5	0.000	0.250	Light Orange
6	0.250	0.500	Yellow
7	0.500	0.750	Light Green
8	0.750	1.000	Green
9	1.000	1.250	Light Green
10	1.250	1.500	Green

TOTAL CUT = 3,414m³
 TOTAL FILL = 3,200m³
 NET = 214m³ (CUT)

× CUT/FILL VOLUME:
 FSL (MINUS HARDSTAND/GRAVEL) COMPARED TO STRIPPED EXISTING SURFACE

× 100mm STRIPPING FOR EXISTING SURFACE: 4,248m³

× VOLUMES INCLUDE MATERIAL IMPORT REQUIRED:
 i.) 150mm THK HARDSTAND: 3,280m³
 ii.) INTERSECTION 150 THK PAVEMENT WITH 2 COAT BITUMEN SEAL: 56m³
 iii.) 150mm THK GRAVEL ACCESS: 439m³

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						DWN	DATE								
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						MAP GRID MGA-55		PO BOX 350, LONGREACH 4730 QLD		S. SHAY					
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						SURVEY BOOKS		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		S. SHAY					
										23/08/21					

GENERAL

- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED AND A REVISED EROSION AND SEDIMENT CONTROL PLAN (ESCP) MUST BE SUBMITTED FOR APPROVAL IN THE EVENT THAT SITE CONDITIONS CHANGE SIGNIFICANTLY FROM THOSE CONSIDERED WITHIN THE ESCP.
- WHERE THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE, APPROPRIATE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED SUCH THAT ALL REASONABLE AND PRACTICABLE MEASURES ARE BEING TAKEN TO PREVENT OR MINIMISE SUCH HARM. ONLY THOSE WORKS NECESSARY TO MINIMISE OR PREVENT ENVIRONMENTAL HARM SHALL BE CONDUCTED ON-SITE PRIOR TO APPROVAL OF THE AMENDED (ESCP).
- IN CIRCUMSTANCES WHERE IT IS CONSIDERED NECESSARY TO PREPARE AN AMENDED EROSION AND SEDIMENT CONTROL PLAN (ESCP), AND WHERE THE DELIVERY OF SUCH AN AMENDED ESCP IS NOT IMMINENT, THEN ALL NECESSARY NEW OR MODIFIED EROSION AND SEDIMENT CONTROL WORKS MUST BE IN ACCORDANCE TO WITH IECA (2008) BEST PRACTICE EROSION & SEDIMENT CONTROL. UPON APPROVAL OF THE AMENDED ESCP, ALL WORKS MUST BE IMPLEMENTED IN ACCORDANCE WITH THE AMENDED PLAN.

SITE ACCESS

- PRIOR TO THE COMMENCEMENT OF SITE WORKS, THE LOCATION OF THE SITE ACCESS POINT(S) MUST BE VERIFIED WITH SRRC.
- SITE ACCESS IS RESTRICTED TO ONE LOCATION.
- SITE EXIT POINTS MUST BE APPROPRIATELY MANAGED TO MINIMISE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
- STORMWATER RUNOFF FROM ACCESS ROADS AND STABILISED ENTRY/EXIT POINTS MUST DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.

SOIL AND STOCKPILE MANAGEMENT

- ALL REASONABLE AND PRACTICABLE MEASURES MUST BE TAKEN TO OBTAIN THE MAXIMUM BENEFIT FROM EXISTING TOPSOIL, INCLUDING:
 - WHERE THE PROPOSED AREA OF SOIL DISTURBANCE DOES NOT EXCEED 2500m², AND THE TOPSOIL DOES NOT CONTAIN UNDESIRABLE WEED SEED, THE TOP 100mm OF SOIL LOCATED WITHIN AREAS OF PROPOSED SOIL DISTURBANCE (INCLUDING STOCKPILE AREAS) MUST BE STRIPPED AND STOCKPILED SEPARATELY FROM THE REMAINING SOIL.
 - WHERE THE PROPOSED AREA OF SOIL DISTURBANCE EXCEEDS 2500m², AND THE TOPSOIL DOES NOT CONTAIN UNDESIRABLE WEED SEED, THE TOP 50mm OF SOIL MUST BE STRIPPED AND STOCKPILED SEPARATELY FROM THE REMAINING TOPSOIL, AND SPREAD AS A FINAL SURFACE SOIL.
 - IN AREAS WHERE THE TOPSOIL CONTAINS UNDESIRABLE WEED SEED, THE AFFECTED SOIL MUST BE SUITABLY BURIED OR REMOVED FROM THE SITE.
- STOCKPILES OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, MUST BE:
 - APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
 - LOCATED AT LEAST 2m FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
 - LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 5 DAYS DURING THOSE MONTHS THAT HAVE A EXTREME EROSION RISK.
- A SUITABLE FLOW DIVERSION SYSTEM MUST BE ESTABLISHED IMMEDIATELY UP-SLOPE OF A STOCKPILE OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, IF THE UP-SLOPE CATCHMENT AREA DRAINING TO THE STOCKPILE EXCEEDS 1500m².

SITE MANAGEMENT

- ALL OFFICE FACILITIES AND OPERATIONAL ACTIVITIES MUST BE LOCATED SUCH THAT ANY LIQUID EFFLUENT (E.G. PROCESS WATER, WASH-DOWN WATER, EFFLUENT FROM EQUIPMENT CLEANING, OR PLANT WATERING), CAN BE TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
- THE CONSTRUCTION SCHEDULE MUST AIM TO MINIMISE THE DURATION THAT ANY AND ALL AREAS OF SOIL ARE EXPOSED TO THE EROSION EFFECTS OF WIND, RAIN AND SURFACE WATER.
- LAND-DISTURBING ACTIVITIES MUST BE UNDERTAKEN IN ACCORDANCE WITH THE (ESCP) AND ASSOCIATED DEVELOPMENT CONDITIONS.
- LAND-DISTURBING ACTIVITIES MUST BE UNDERTAKEN IN SUCH A MANNER THAT ALLOWS ALL REASONABLE AND PRACTICABLE MEASURES TO BE UNDERTAKEN TO:
 - ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON-EROSIVE FLOW VELOCITIES UP TO THE SPECIFIED DESIGN STORM DISCHARGE;
 - MINIMISE SOIL EROSION RESULTING FROM RAIN, WATER FLOW AND/OR WIND;
 - MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF, INCLUDING SAFETY ISSUES;
 - PREVENT, OR AT LEAST MINIMISE, ENVIRONMENTAL HARM RESULTING FROM WORK-RELATED SOIL EROSION AND SEDIMENT RUNOFF;
 - ENSURE THAT THE VALUE AND USE OF LAND/PROPERTIES ADJACENT TO THE DEVELOPMENT (INCLUDING ROADS) ARE NOT DIMINISHED AS A RESULT OF THE ADOPTED ESC MEASURES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES MUST CONFORM TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN:
 - THE DEVELOPMENT APPROVAL CONDITION ISSUED BY LRC; AND
 - THE APPROVED ESCP AND SUPPORTING DOCUMENTATION; OR
 - THE LATEST VERSION OF IECA (2008) BEST PRACTICE EROSION & SEDIMENT CONTROL IF THE STANDARDS AND SPECIFICATIONS ARE NOT CONTAINED IN THE APPROVED ESCP.
- ANY WORKS THAT MAY CAUSE SIGNIFICANT SOIL DISTURBANCE AND ARE ANCILLARY TO ANY ACTIVITY FOR WHICH REGULATORY BODY APPROVAL IS REQUIRED, MUST NOT COMMENCE BEFORE THE ISSUE OF THAT APPROVAL.
- ADDITIONAL AND/OR ALTERNATIVE ESC MEASURES MUST BE IMPLEMENTED IN THE EVENT THAT LRC IDENTIFIES THAT UNACCEPTABLE OFF-SITE SEDIMENTATION IS OCCURRING AS A RESULT OF THE WORK ACTIVITIES.
- LAND-DISTURBING ACTIVITIES MUST NOT CAUSE UNNECESSARY SOIL DISTURBANCE IF AN ALTERNATIVE CONSTRUCTION PROCESS IS AVAILABLE THAT ACHIEVES THE SAME OR EQUIVALENT OUTCOMES AT AN EQUIVALENT COST.
- SEDIMENT (INCLUDING CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT AND CERAMIC WASTE) DEPOSITED OFF THE SITE AS A DIRECT RESULT OF AN ON-SITE ACTIVITY, MUST BE COLLECTED AND THE AREA APPROPRIATELY CLEANED/REHABILITATED AS SOON AS REASONABLE AND PRACTICABLE, AND IN A MANNER THAT GIVES APPROPRIATE CONSIDERATION TO THE SAFETY AND ENVIRONMENTAL RISKS ASSOCIATED WITH THE SEDIMENT DEPOSITION.
- ALL WASTE INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, MUST BE PREVENTED FROM ENTERING AN INTERNAL WATER BODY, OR AN EXTERNAL DRAIN, STORMWATER SYSTEM, OR WATER BODY.
- ALL FLAMMABLE AND COMBUSTIBLE LIQUIDS, INCLUDING ALL LIQUID CHEMICALS IF SUCH CHEMICALS COULD POTENTIALLY BE WASHED OR DISCHARGED FROM THE SITE, ARE STORED AND HANDLED ON-SITE IN ACCORDANCE WITH RELEVANT STANDARDS SUCH AS AS1940 THE STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.
- NO MORE THAN 150m OF A STORMWATER, SEWER LINE OR OTHER SERVICE TRENCH MUST TO BE OPEN AT ANY ONE TIME.
- SITE SPOIL MUST BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
- ALL FILL MATERIAL PLACED ON SITE MUST COMPRISE ONLY NATURAL EARTH AND ROCK, AND IS TO BE FREE OF CONTAMINANTS, BE FREE DRAINING, AND BE COMPACTED IN LAYERS NOT EXCEEDING 300mm TO 90% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289.

DRAINAGE CONTROL

- ALL DRAINAGE CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
- WHEREVER REASONABLE AND PRACTICABLE, STORMWATER RUNOFF ENTERING THE SITE FROM EXTERNAL AREAS, AND NON-SEDIMENT LADEN (CLEAN) STORMWATER RUNOFF ENTERING A WORK AREA OR AREA OF SOIL DISTURBANCE, MUST BE DIVERTED AROUND OR THROUGH THAT AREA IN A MANNER THAT MINIMISES SOIL EROSION AND THE CONTAMINATION OF THAT WATER FOR ALL DISCHARGES UP TO THE SPECIFIED DESIGN STORM DISCHARGE.
- DURING THE CONSTRUCTION PERIOD, ALL REASONABLE AND PRACTICABLE MEASURES MUST BE IMPLEMENTED TO CONTROL FLOW VELOCITIES IN SUCH A MANNER THAN PREVENTS SOIL EROSION ALONG DRAINAGE PATHS AND AT THE ENTRANCE AND EXIT OF ALL DRAINS AND DRAINAGE PIPES DURING ALL STORMS UP TO THE RELEVANT DESIGN STORM DISCHARGE.
- TO THE MAXIMUM DEGREE REASONABLE AND PRACTICABLE, ALL WATERS DISCHARGED DURING THE CONSTRUCTION PHASE MUST DISCHARGE ONTO STABLE LAND, IN A NON-EROSIVE MANNER, AND AT A LEGAL POINT OF DISCHARGE.
- WHEREVER REASONABLE AND PRACTICABLE, "CLEAN" SURFACE WATERS MUST BE DIVERTED AWAY FROM SEDIMENT CONTROL DEVICES AND ANY UNTREATED, SEDIMENT-LADEN WATERS.
- DURING THE CONSTRUCTION PERIOD, ROOF WATER MUST BE MANAGED IN A MANNER THAT MINIMISES SOIL EROSION THROUGHOUT THE SITE, AND SITE WETNESS WITHIN ACTIVE WORK AREAS.

EROSION CONTROL


- ALL EROSION CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH IECA (2008) BEST PRACTICE EROSION & SEDIMENT CONTROL AND STANDARD DRAWINGS 'HTTP://WWW.AUSTIECA.COM.AU/PUBLICATIONS/BOOK-6-STANDARD-DRAWINGS'.
- THE APPLICATION OF LIQUID-BASED DUST SUPPRESSION MEASURES MUST ENSURE THAT SEDIMENT-LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD.
- ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, AND EMBANKMENTS ASSOCIATED WITH CONSTRUCTED SEDIMENT BASINS MUST BE MACHINE-COMPACTED, SEEDED AND MULCHED FOR THE PURPOSE OF ESTABLISHING A TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
- UNPROTECTED SLOPE LENGTHS MUST NOT EXCEED 80m, OR AN EQUIVALENT VERTICAL FALL OF 3m DURING THE CONSTRUCTION PERIOD.
- THE CONSTRUCTION AND STABILISATION OF EARTH BATTERS STEEPER THAN 6:1 (H:V) MUST BE STAGED SUCH THAT NO MORE THAN 3 VERTICAL-METRES OF ANY BATTER IS EXPOSED TO RAINFALL AT ANY INSTANT.
- SYNTHETIC REINFORCED EROSION CONTROL MATS AND BLANKETS MUST NOT BE PLACED WITHIN, OR ADJACENT TO, RIPARIAN ZONES AND WATERCOURSES IF SUCH MATERIALS ARE LIKELY TO CAUSE ENVIRONMENTAL HARM TO WILDLIFE OR WILDLIFE HABITATS.
- A MINIMUM 60% GROUND COVER MUST BE ACHIEVED ON ALL NON-COMPLETED EARTHWORKS EXPOSED TO ACCELERATED SOIL EROSION IF FURTHER CONSTRUCTION ACTIVITIES OR SOIL DISTURBANCES ARE LIKELY TO BE SUSPENDED FOR MORE THAN 30 DAYS DURING THOSE MONTHS WHEN THE EXPECTED RAINFALL IS LESS THAN 30mm; MINIMUM 70% COVER WITHIN 30 DAYS IF BETWEEN 30 AND 45mm; MINIMUM 70% COVER WITHIN 20 DAYS IF BETWEEN 45 AND 100mm; MINIMUM 75% COVER WITHIN 10 DAYS IF BETWEEN 100 AND 225mm; AND MINIMUM 80% COVER WITHIN 5 DAYS IF GREATER THAN 225mm. (ALTERNATIVE TO ABOVE)

SEDIMENT CONTROL

- ALL SEDIMENT CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH IECA (2008) BEST PRACTICE EROSION & SEDIMENT CONTROL AND STANDARD DRAWINGS 'HTTP://WWW.AUSTIECA.COM.AU/PUBLICATIONS/BOOK-6-STANDARD-DRAWINGS'.
- OPTIMUM BENEFIT MUST BE MADE OF EVERY OPPORTUNITY TO TRAP SEDIMENT WITHIN THE WORK SITE, AND AS CLOSE AS PRACTICABLE TO ITS SOURCE.
- SEDIMENT TRAPS MUST BE INSTALLED AND OPERATED TO BOTH COLLECT AND RETAIN SEDIMENT.
- THE POTENTIAL SAFETY RISK OF A PROPOSED SEDIMENT TRAP TO SITE WORKERS AND THE PUBLIC MUST BE GIVEN APPROPRIATE CONSIDERATION, ESPECIALLY THOSE DEVICES LOCATED WITHIN PUBLICLY ACCESSIBLE AREAS.
- ALL REASONABLE AND PRACTICABLE MEASURES MUST BE TAKEN TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT FROM THE SITE.
- SUITABLE ALL-WEATHER MAINTENANCE ACCESS MUST BE PROVIDED TO ALL SEDIMENT CONTROL DEVICES.
- SEDIMENT CONTROL DEVICES MUST BE DE-SILTED AND MADE FULLY OPERATIONAL AS SOON AS REASONABLE AND PRACTICABLE AFTER A SEDIMENT-PRODUCING EVENT, WHETHER NATURAL OR ARTIFICIAL, IF THE DEVICE'S SEDIMENT RETENTION CAPACITY FALLS BELOW 75% OF ITS DESIGN RETENTION CAPACITY.
- MATERIALS, WHETHER LIQUID OR SOLID, REMOVED FROM SEDIMENT CONTROL DEVICES DURING MAINTENANCE OR DECOMMISSIONING, MUST BE DISPOSED OF IN A MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

SITE REHABILITATION

- ALL DISTURBED AREAS IDENTIFIED AS VERY LOW, LOW, MEDIUM, HIGH, OR EXTREME EROSION RISK MUST BE SUITABLY STABILISED WITHIN 30, 30, 20, 10 OR 5 DAYS RESPECTIVELY, OR PRIOR TO ANTICIPATED RAINFALL, WHICHEVER IS THE GREATER, FROM THE DAY THAT SOIL DISTURBANCES ON THE AREA HAVE BEEN FINALISED.
- A MINIMUM 60% GROUND COVER MUST BE ACHIEVED ON ALL COMPLETED EARTHWORKS EXPOSED TO ACCELERATED SOIL EROSION WITHIN 30 DAYS DURING THOSE MONTHS WHEN THE EXPECTED RAINFALL IS LESS THAN 30mm; MINIMUM 70% COVER WITHIN 30 DAYS IF BETWEEN 30 AND 45mm; MINIMUM 70% COVER WITHIN 20 DAYS IF BETWEEN 45 AND 100mm; MINIMUM 75% COVER WITHIN 10 DAYS IF BETWEEN 100 AND 225mm; AND MINIMUM 80% COVER WITHIN 5 DAYS IF GREATER THAN 225mm. (ALTERNATIVE TO ABOVE)
- NO COMPLETED EARTHWORK SURFACE MUST REMAIN DENUDED FOR LONGER THAN 60 DAYS.
- THE TYPE OF GROUND COVER APPLIED TO COMPLETED EARTHWORKS IS COMPATIBLE WITH THE ANTICIPATED LONG-TERM LAND USE, ENVIRONMENTAL RISK, AND SITE REHABILITATION MEASURES.
- UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT OR WHERE DIRECTED BY THE APPROVED REVEGETATION PLAN, TOPSOIL MUST BE PLACED AT A MINIMUM DEPTH OF 75mm ON SLOPES 4:1 (H:V) OR FLATTER, AND 50mm ON SLOPES STEEPER THAN 4:1.
- SOIL AMELIORANTS MUST BE ADDED TO THE SOIL IN ACCORDANCE WITH THE APPROVED LANDSCAPE/REVEGETATION PLANS AND/OR SOIL ANALYSIS.
- TEMPORARY SITE STABILISATION PROCEDURES MUST COMMENCE AT LEAST 30 DAYS PRIOR TO THE NOMINATED SITE SHUTDOWN DATE. AT LEAST 70% STABLE COVER OF ALL UNSTABLE AND/OR DISTURBED SOIL SURFACES MUST BE ACHIEVED PRIOR TO ANY SHUTDOWN. THE STABILISATION WORKS MUST NOT RELY UPON THE LONGEVITY OF NON-VEGETATED EROSION CONTROL BLANKETS, OR TEMPORARY SOIL BINDERS.
- ALL UNSTABLE OR DISTURBED SOIL SURFACES MUST BE ADEQUATELY STABILISED AGAINST EROSION (MINIMUM 70%) PRIOR TO COMMENCEMENT OF USE, OR SURVEY PLAN ENDORSEMENT.

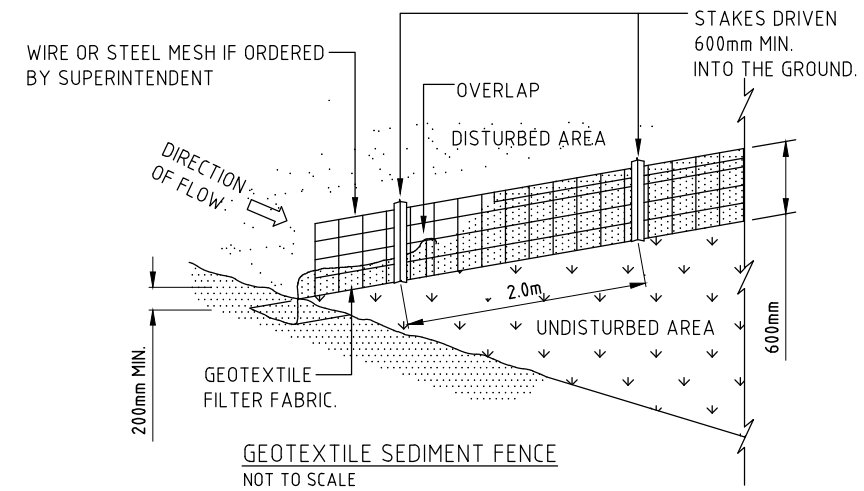
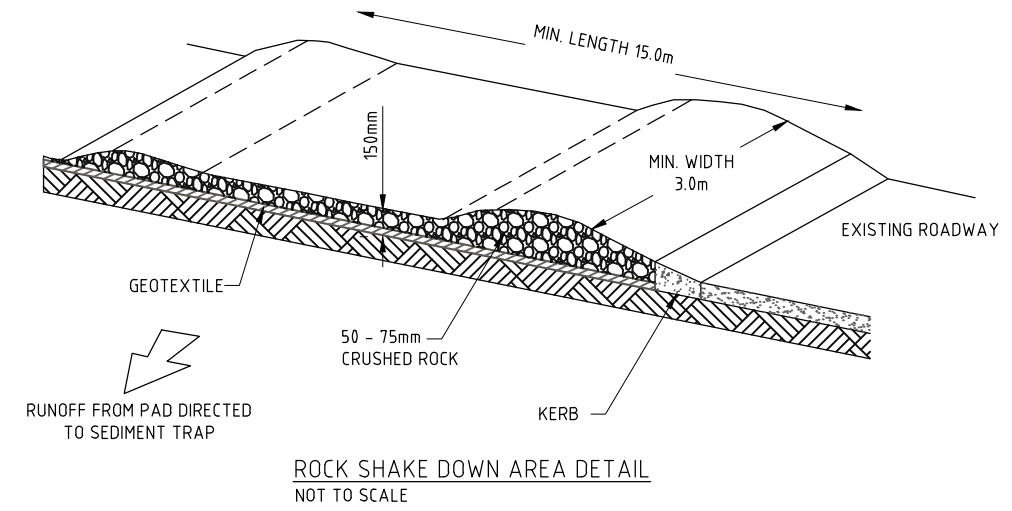
<p style="text-align: center;">LONGREACH REGIONAL COUNCIL</p> <p style="text-align: center;">DIGITALLY STAMPED APPROVED PLAN</p> <p>Development Application: Development Permit for Operational Works (External Road Works, Internal Road Works and Parking, Earthworks, Stormwater and Drainage Works, Water Supply Connection).</p> <p>Address and RP Description: Landsborough Highway, Longreach (Lot 30 C22867 and Lot 32 C22880)</p> <p style="text-align: center;">Referred to in Council's Decision Notice</p> <p>Approval Date: 18 November 2021 Application Number: DA 21/22-005</p>		SURVEY DATA		ANDREW SECCOMBE		EROSION & SEDIMENT CONTROL NOTES				PO Box 554 Beaudesert QLD 4285 (07) 5541 3500 www.acsengineers.com.au			
		DATUM	GDA94										
A FOR APPROVAL		DJS 08/2021		DJS 08/2021		THOMSON RIVER CARAVAN PARK		ENGINEERING CERTIFICATION (RPEQ) # FIELD NAME SIGNATURE DATE 13697 CIVIL S. SHAY <i>S. Shay</i> 23/08/21		JOB NUMBER		200109	
		DWN DATE DES DATE		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		DRAWING NUMBER		ACS-200109-GEN-08		A		08 OF 13	
FILE: G:\SYNERGY\PROJECTS\20\200109 THOMSON RIVER CARAVAN PARK\DESIGN FILES\ACS-GEN-200109.DWG PLOT TIME: 23/8/2021 - 14:19PM BY USER: JARED													

SITE MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATIONAL LIVES.
2. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE FULLY OPERATIONAL AND MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THE MAINTENANCE PERIOD AS SPECIFIED BY TMR.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE REMOVED AFTER ACHIEVING A SATISFACTORY "OFF-MAINTENANCE INSPECTION" BY LRC.
4. ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED:
 - (i) AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE);
 - (ii) AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE);
 - (iii) WITHIN 24 HOURS OF EXPECTED RAINFALL; AND
 - (iv) WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE RUNOFF ON-SITE).
5. WASHING/FLUSHING OF SEALED ROADWAYS MUST ONLY OCCUR WHERE SWEEPING HAS FAILED TO REMOVE SUFFICIENT SEDIMENT AND THERE IS A COMPELLING NEED TO REMOVE THE REMAINING SEDIMENT (E.G. FOR SAFETY REASONS). IN SUCH CIRCUMSTANCES, ALL REASONABLE AND PRACTICABLE SEDIMENT CONTROL MEASURES MUST BE USED TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT INTO RECEIVING WATERS. ONLY THOSE MEASURES THAT WILL NOT CAUSE SAFETY AND PROPERTY FLOODING ISSUES SHALL BE EMPLOYED. SEDIMENT REMOVED FROM ROADWAYS MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
6. SEDIMENT REMOVED FROM SEDIMENT TRAPS AND PLACES OF SEDIMENT DEPOSITION MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
7. MAINTENANCE MOWING OF ALL ROAD SHOULDERS, TABLE DRAINS, BATTERS AND OTHER SURFACES LIKELY TO EXPERIENCE ACCELERATED SOIL EROSION MUST AIM TO LEAVE THE GRASS LENGTH NO SHORTER THAN 50mm WHERE REASONABLE AND PRACTICABLE.
8. MAINTENANCE MOWING MUST BE DONE IN A MANNER THAT WILL NOT DAMAGE THE PROFILE OF FORMED, SOFT EDGES, SUCH AS THE CREST OF EARTH EMBANKMENTS.

OTHER

1. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
2. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 30%.
3. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE SUPERINTENDENT AND SHALL BE SEEDED, AS SPECIFIED, WITHIN SEVEN DAYS OF FINAL TRIMMING.
4. EXTENT AND POSITION OF SILT FENCE CONTROL MEASURES TO BE DETERMINED ON SITE BY SUPERINTENDENT.
5. MEASURES SHOWN ON THIS DRAWING ARE MINIMUM REQUIREMENTS ONLY.
6. SCOUR PROTECTION AND SILT MANAGEMENT MEASURES TO BE PROVIDED AT STORMWATER OUTLET HEADWALLS.
7. PROVISION TO BE MADE FOR DIRT/SAND REMOVAL FROM CONSTRUCTION VEHICLES PRIOR TO TRAVEL ON PUBLIC ROADS. METHOD TO BE APPROVED BY SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.
8. ANY SILT OR SEDIMENT CAUSED BY CONSTRUCTION TRAFFIC ON EXISTING ROADS IS TO BE REMOVED DAILY.
9. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL PROCEDURES DURING CONSTRUCTION AND MAINTENANCE STAGES OF THE DEVELOPMENT AND SHALL TAKE ALL NECESSARY ACTIONS TO COMPLY WITH THE POLICY OBJECTIVES OF COUNCIL'S LOCAL PLANNING POLICY - EROSION AND SEDIMENT CONTROL.
10. A SCHEDULE SHALL BE SUBMITTED FOR THE APPROVAL OF COUNCIL'S REPRESENTATIVE AT THE PRE-START MEETING FOR THE FIELD IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL, DETAILING THE STAGES AT WHICH VARIOUS MANAGEMENT TECHNIQUES WOULD BE IN PLACE AND AUDITING PROCEDURES.
11. FINAL FORM OF SEDIMENT EROSION CONTROL TO BE DECIDED ON SITE BY THE SUPERINTENDENT.
12. THE CONTRACTOR IS TO ENSURE THAT NO SILT REACHES THE DOWNSTREAM WATER COURSE AND IS TO PROVIDE ADEQUATE PROTECTION TO PREVENT THIS OCCURRING.



LONGREACH REGIONAL COUNCIL

**DIGITALLY STAMPED
APPROVED PLAN**

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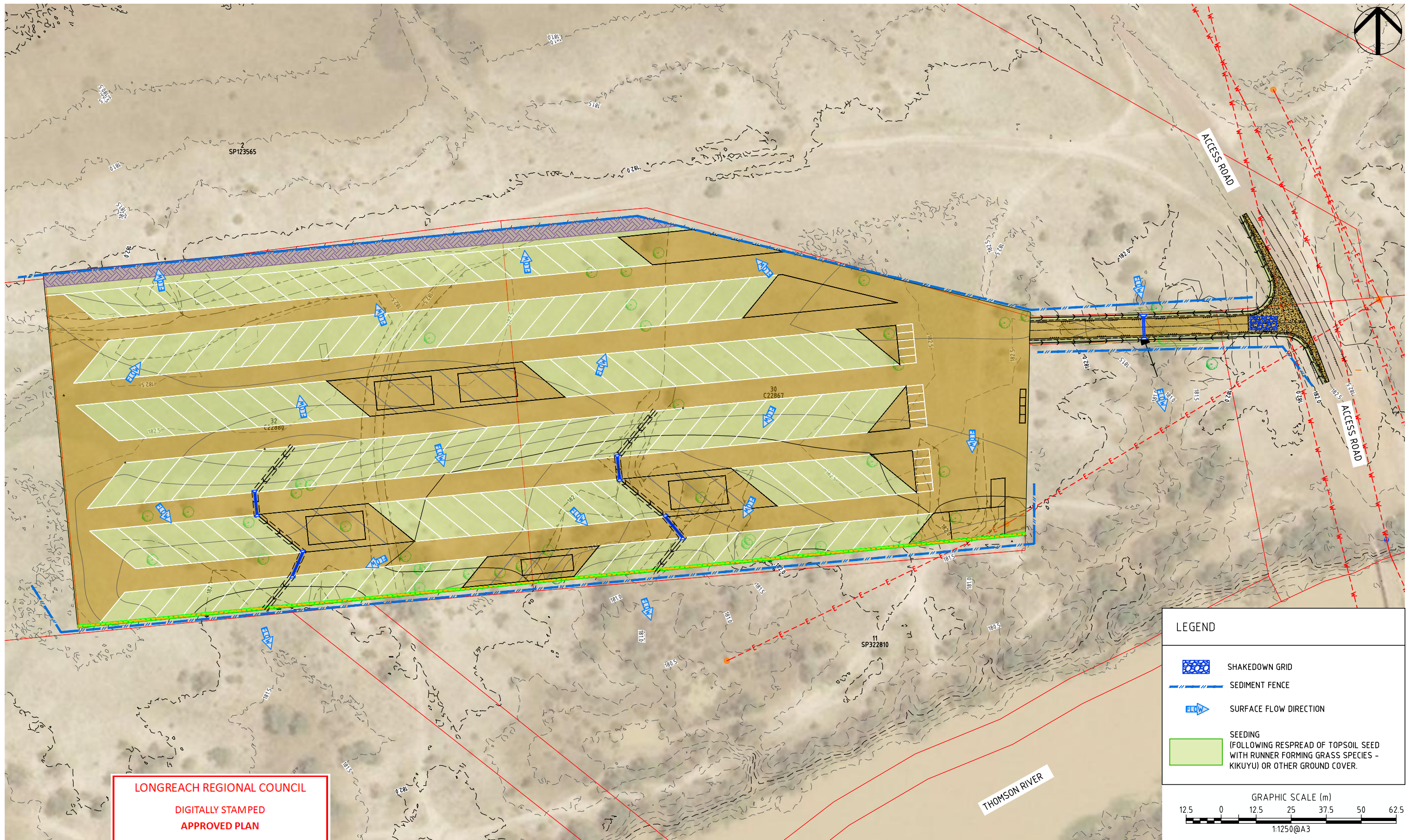
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Referred to in Council's Decision Notice





Approval Date: 18 November 2021

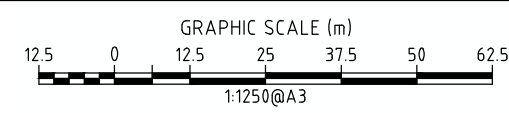
Application Number: DA 21/22-005

		SURVEY DATA		ANDREW SECCOMBE		EROSION & SEDIMENT CONTROL NOTES & DETAILS		P0 Box 554 Beaudesert QLD 4285		ACS Engineers CIVIL ENVIRONMENTAL PROJECT MANAGEMENT		
		DATUM GDA94		PO BOX 350, LONGREACH 4730 QLD				JOB NUMBER 200109				
		MAP GRID MGA-55		THOMSON RIVER CARAVAN PARK		ENGINEERING CERTIFICATION (RPEQ)		(07) 55413500 www.acsengineers.com.au		A		
		HEIGHT ORIGIN AHD		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		# FIELD NAME SIGNATURE DATE		DRAWING NUMBER ACS-200109-GEN-09				09 OF 13
A	FOR APPROVAL	DJS	08/2021	DJS	08/2021	13697	CIVIL	S. SHAY	<i>S. Shay</i>	23/08/21		
REVISION/DETAILS		DWN	DATE	DES	DATE							



LEGEND

-  SHAKEDOWN GRID
-  SEDIMENT FENCE
-  SURFACE FLOW DIRECTION
-  SEEDING
(FOLLOWING RESPREAD OF TOPSOIL SEED WITH RUNNER FORMING GRASS SPECIES - KIKUYU) OR OTHER GROUND COVER.



LONGREACH REGIONAL COUNCIL

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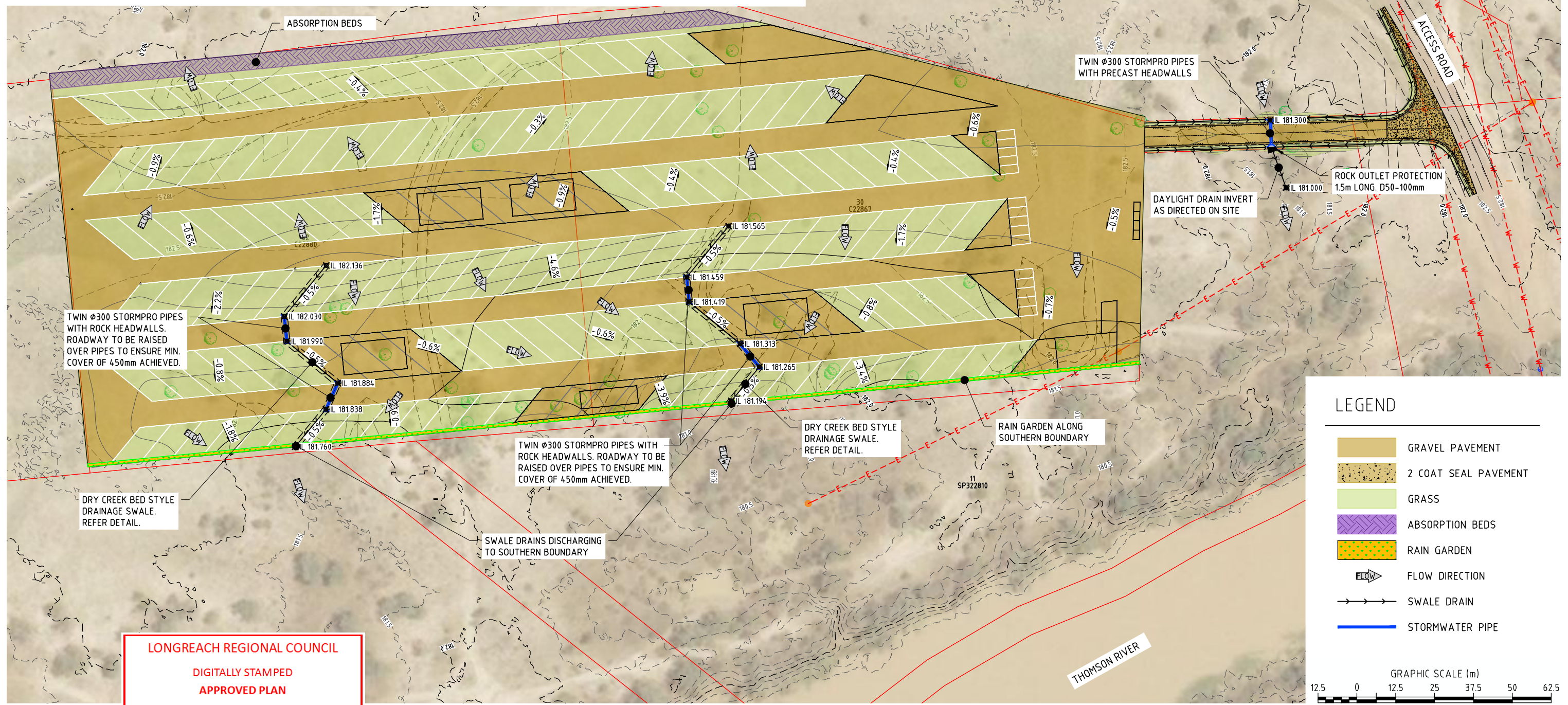
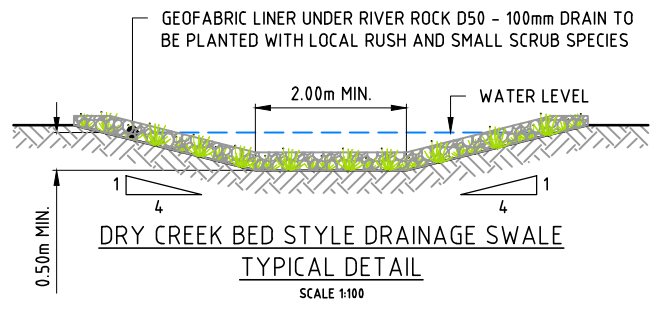
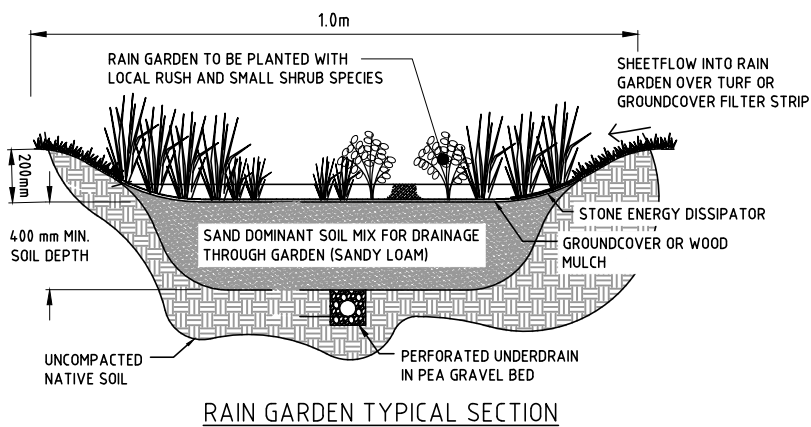
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Approval Date: 18 November 2021

Application Number: DA 21/22-005

		SURVEY DATA		ANDREW SECCOMBE	EROSION & SEDIMENT CONTROL LAYOUT PLAN			PO Box 554 Beaudesert QLD 4285 (07) 5541 3500 www.acsengineers.com.au		ACS Engineers <small>CIVIL ENVIRONMENTAL PROJECT MANAGEMENT</small>	
		DATUM	GDA94								
		MAP GRID	MGA-55	THOMSON RIVER CARAVAN PARK	ENGINEERING CERTIFICATION (RPEQ)			JOB NUMBER			
		HEIGHT ORIGIN	AHD		#	FIELD	NAME	SIGNATURE	DATE		200109
		SURVEY BOOKS	-	L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730	13697	CIVIL	S. SHAY		23/08/21	DRAWING NUMBER ACS-200109-GEN-10	
		DJS	08/2021		DJS	08/2021					
A	FOR APPROVAL	DJS	08/2021							A	10 OF 13



LONGREACH REGIONAL COUNCIL
DIGITALLY STAMPED APPROVED PLAN

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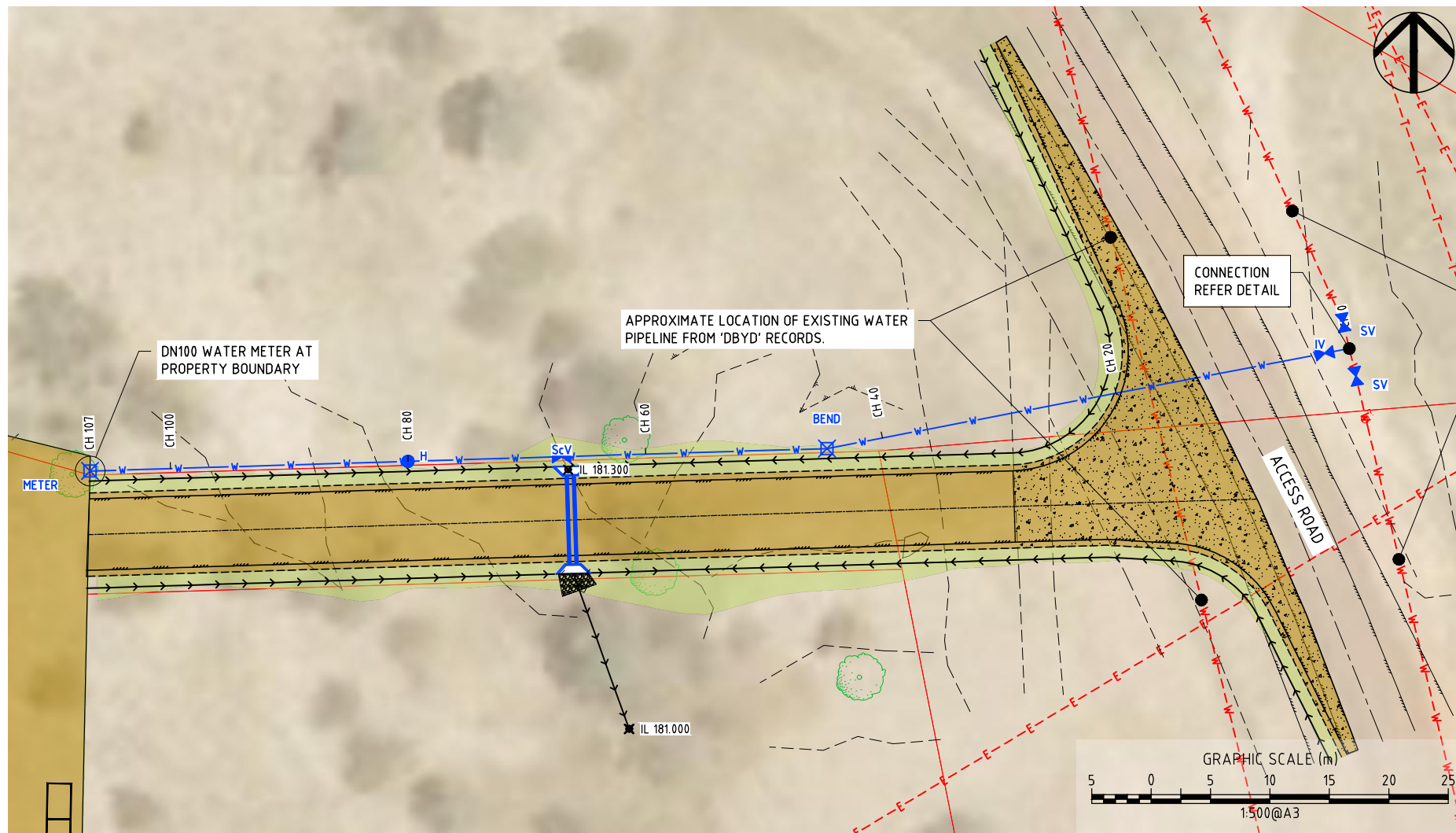
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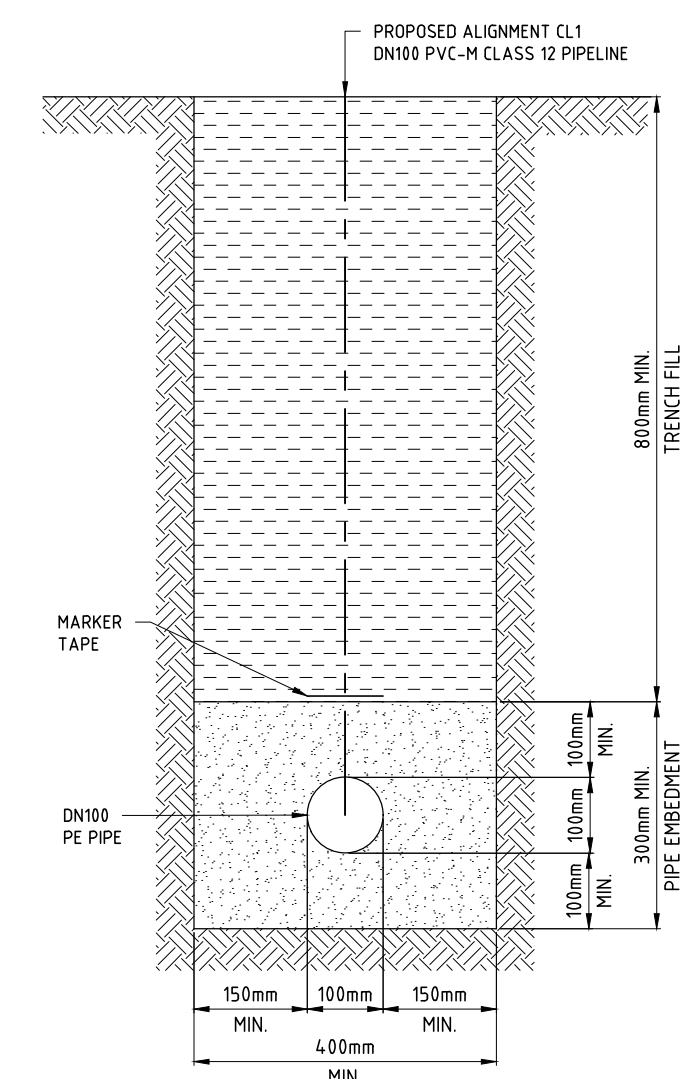
Approval Date: 18 November 2021

Application Number: DA 21/22-005

		SURVEY DATA		ANDREW SECCOMBE		STORMWATER & DRAINAGE MANAGEMENT PLAN		PO Box 554 Beaudesert QLD 4285			
		DATUM GDA94		PO BOX 350, LONGREACH 4730 QLD				(07) 5541 3500 www.acsengineers.com.au			
		MAP GRID MGA-55		THOMSON RIVER CARAVAN PARK		ENGINEERING CERTIFICATION (RPEQ)		JOB NUMBER 200109		A	
		HEIGHT ORIGIN AHD		L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730		# FIELD NAME SIGNATURE DATE		DRAWING NUMBER ACS-200109-GEN-11			
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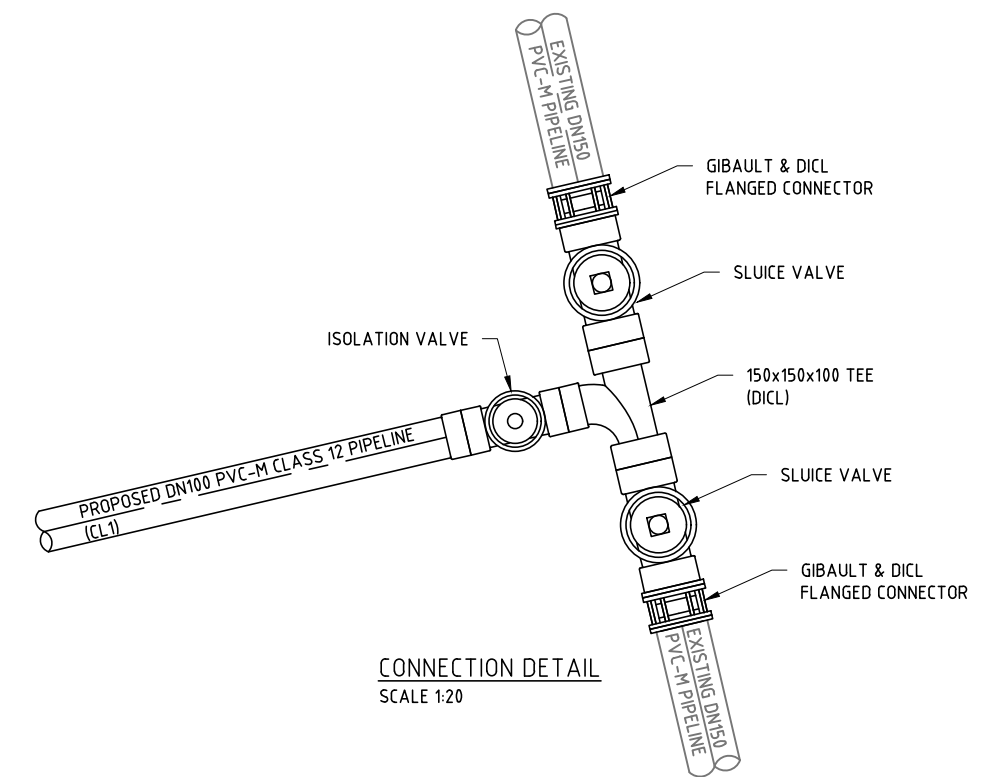
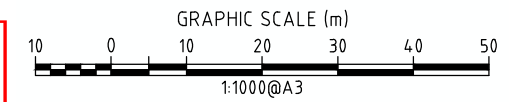
- RETICULATED WATER SUPPLY REFERENCES:
- WSA 01-2004 POLYETHYLENE PIPELINE CODE VARIATION 3.1
 - WSA 03-2011 WATER SUPPLY CODE OF AUSTRALIA V3.1
 - WSA 05-2013 CONDUIT INSPECTION REPORTING CODE OF AUSTRALIA VERSION 3.1
 - WSA 07-2007 PRESSURE SEWERAGE CODE OF AUSTRALIA VERSION 1.1
 - WSA 08-2008 WATER INDUSTRY GUIDELINE FOR ASSET CONFIGURATION MANAGEMENT
 - DEPARTMENT OF ENERGY AND WATER SUPPLY (DEWS) PLANNING GUIDELINES FOR WATER SUPPLY AND SEWERAGE, APRIL 2010, CHAPTER 6 AMENDED MARCH 2014.



VERT EXAG 1:2
DATUM 170.000

	ISOLATION VALVE CH:2.116	BEND CH:44.745	SCOUR VALVE CH:67.077	HYDRANT CH:80.000	METER CH:106.767
DEPTH	-0.900	-0.920	-1.093	-1.121	-0.901
FSL	182.568	182.211	182.007	181.658	182.224
TOP OF PIPE	181.668	181.291	180.914	180.537	181.323
CHAINAGE	0.000	20.000	44.000	60.000	100.000

CL1 LONG SECTION



TYPE 'B' SUPPORT TRENCH DETAIL SCALE 1:10

LONGREACH REGIONAL COUNCIL
DIGITALLY STAMPED APPROVED PLAN

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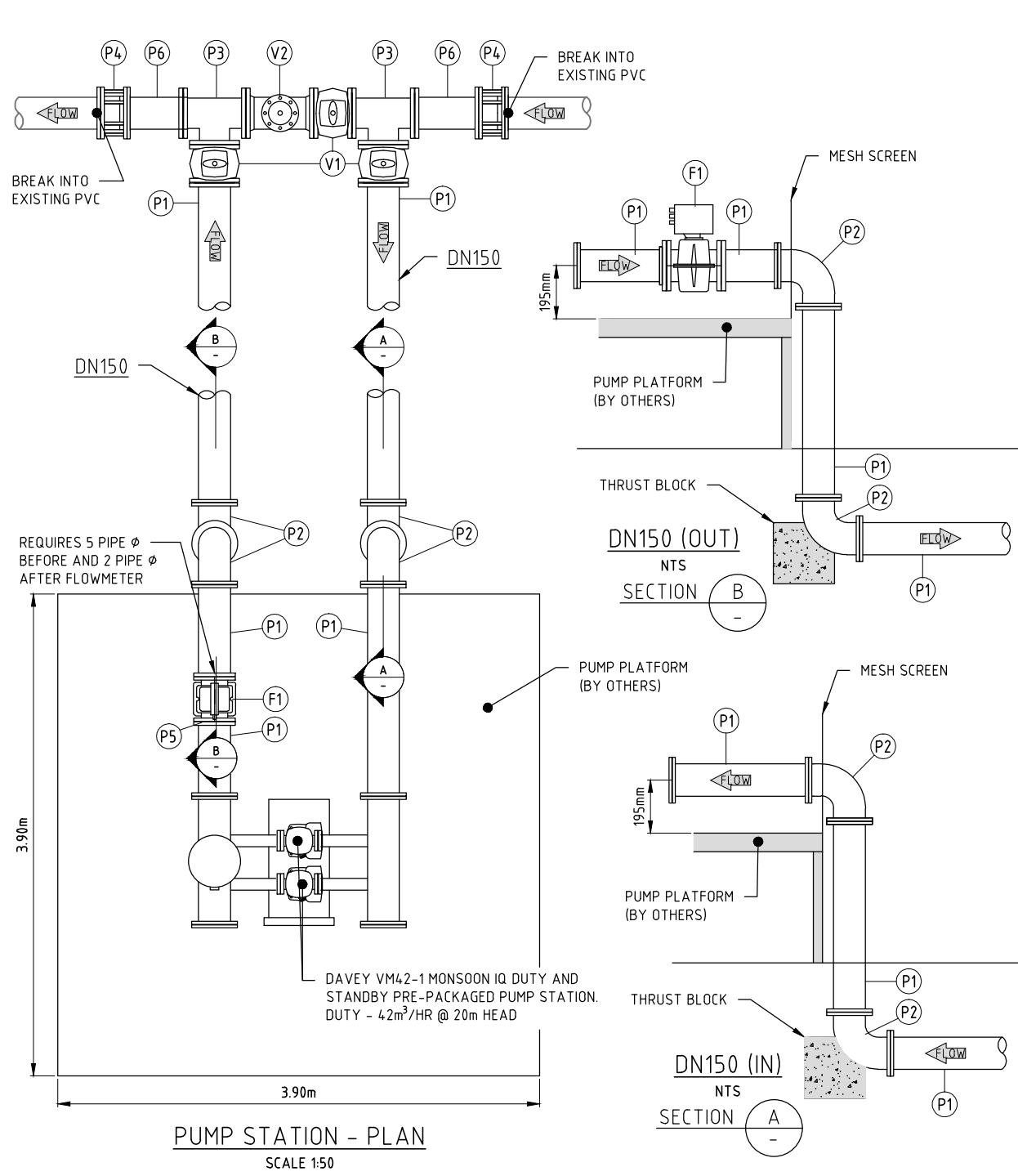
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A	FOR APPROVAL	DJS	08/2021	DJS	08/2021	ANDREW SECCOMBE	PO BOX 350, LONGREACH 4730 QLD	WATER RETICULATION LAYOUT PLAN				P.O. Box 554 Beaudesert QLD 4285 (07) 5541 3500 www.acsengineers.com.au	
								ENGINEERING CERTIFICATION (RPEQ)					
REVISION/DETAILS						THOMSON RIVER CARAVAN PARK	L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730	#	FIELD	NAME	SIGNATURE	DATE	200109
								13697	CIVIL	S. SHAY	<i>S. Shay</i>	23/08/21	

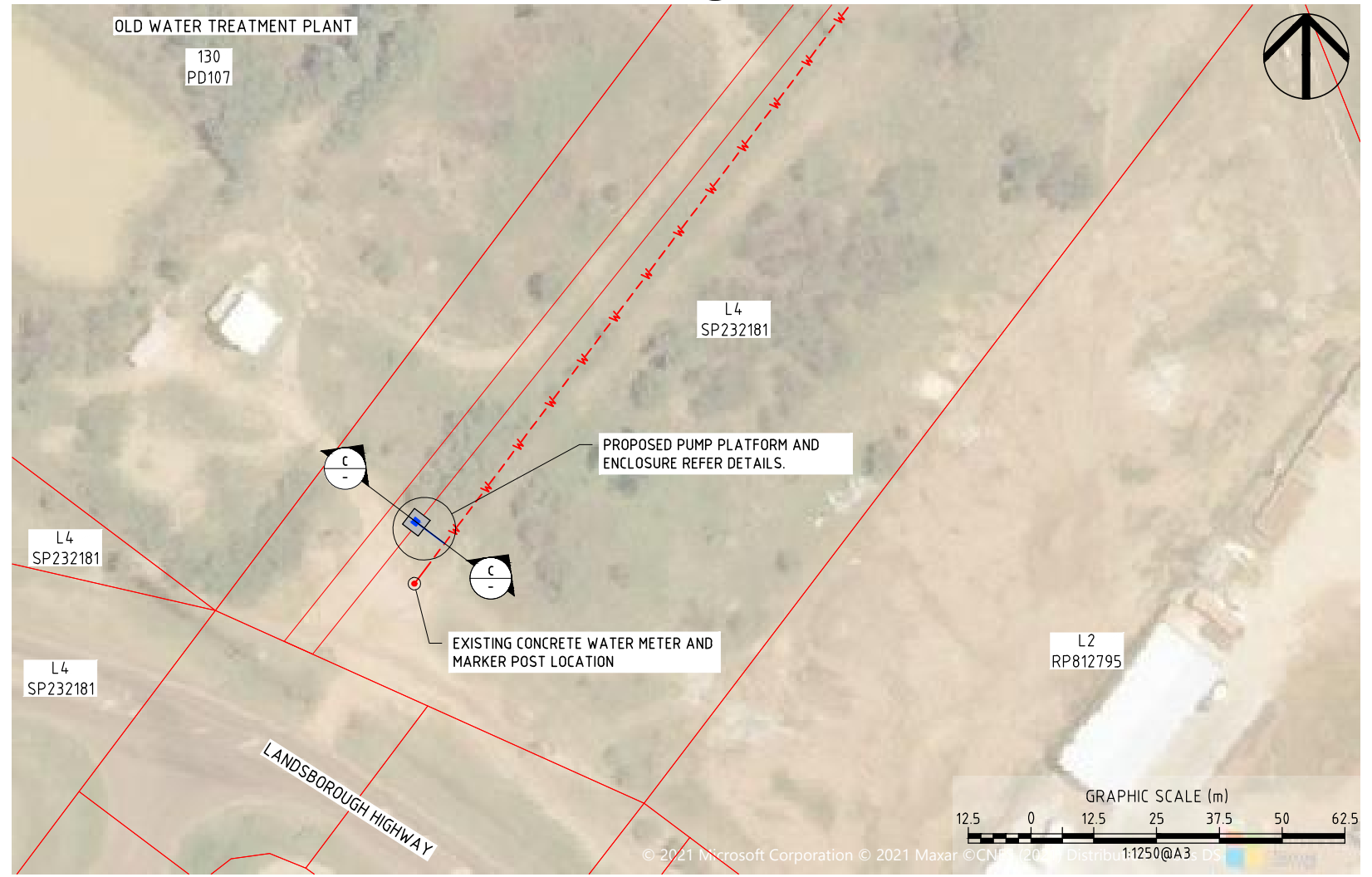
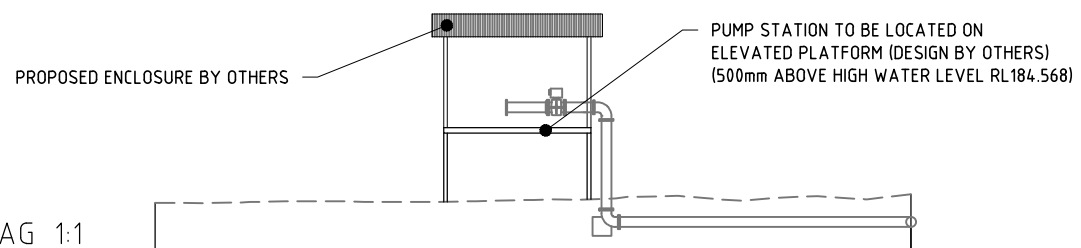


PUMP STATION - PLAN
SCALE 1:50

PARTS SCHEDULE				
NO.	DESCRIPTION	MATERIAL	DIA	QTY
P1	FL/FL PIPE (LENGTH VARIES)	DICL	DN150	7
P2	FL/FL 90° BEND	DICL	DN150	4
P3	FL/FL/FL TEE	DICL	DN150	2
P4	GIBAULT JOINT	DICL	DN100	2
P5	UNIFLANGE	DICL	DN150	1
P6	FL/PI PIPE (LENGTH VARIES)	DICL	DN150	2
V1	FL/FL SLUICE VALVE	DICL	DN150	1
V2	FL/FL REFLUX VALVE	DICL	DN150	1
F1	ELECTROMAGNETIC FLOWMETER	DICL	DN100	1

VERT EXAG 1:1
Datum 180.000

	CHAINAGE	7.632	11.532	20.000
DEPTH			2.204	-0.900
TOP OF PIPE		185.338	185.338	182.432
PLATFORM		185.068	185.068	
ESL	183.109	183.134	183.202	183.332



LONGREACH REGIONAL COUNCIL
DIGITALLY STAMPED
APPROVED PLAN

Development Application: Development Permit for Operational Works (External Road Works, Internal Road Works and Parking, Earthworks, Stormwater and Drainage Works, Water Supply Connection).

Address and RP Description: Landsborough Highway, Longreach (Lot 30 C22867 and Lot 32 C22880)

Referred to in Council's Decision Notice
Approval Date: 18 November 2021
Application Number: DA 21/22-005

A	FOR APPROVAL	DJS	08/2021	DJS	08/2021	DWN	DATE	DES	DATE	SURVEY DATA		ANDREW SECCOMBE	PUMP STATION LAYOUT PLAN AND DETAILS			P0 Box 554 Beaudesert QLD 4285 (07) 5541 3500 www.acsengineers.com.au	ACS Engineers CIVIL ENVIRONMENTAL PROJECT MANAGEMENT	JOB NUMBER 200109	DRAWING NUMBER ACS-200109-GEN-13	13 OF 13
										DATUM	GDA94									
										MAP GRID	MGA-55	THOMSON RIVER CARAVAN PARK	ENGINEERING CERTIFICATION (RPEQ)							
										HEIGHT ORIGIN	AHD	L30 C22867 LANDSBOROUGH HIGHWAY, LONGREACH QLD 4730	13697	CIVIL	S. SHAY	<i>S. Shay</i>	23/08/21			
										SURVEY BOOKS	-									

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER CONSULTANTS DRAWINGS & SPECIFICATIONS & WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- THE DRAWINGS ARE SCHEMATIC ONLY - DO NOT SCALE OFF DRAWINGS
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE MAIN CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
- THE MAIN CONTRACTOR SHALL BY MEANS OF PROPS AND SHORING IF NECESSARY MAINTAIN THE STRUCTURE AND NEIGHBOURING STRUCTURES IN A STABLE CONDITION AT ALL TIMES SUCH THAT STRUCTURAL MEMBERS ARE NOT OVER-STRESSED. WHERE A DEMOLITION REPORT HAS BEEN PROVIDED, PROCEDURES ARE TO BE FOLLOWED STRICTLY.
- ALL ITEMS REQUIRING ENGINEER APPROVAL REQUIRE WRITTEN APPROVAL FROM THE ENGINEER.
- ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.
- ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE AS CODES & THE BY-LAWS & ORDINANCES OF THE RELEVANT BUILDING STATE AUTHORITY.
- PROPRIETARY ITEMS INCLUDING SHEETING, CLADDING, FLOORING AND CEILING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATION AND ITS DESIGN IS BEYOND THE SCOPE OF THIS CONTRACT.
- THE MAIN CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTACT THE ENGINEER FOR CLARIFICATION / REDESIGN WORK (IF ANY) WHERE;
 - * THERE IS A DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS,
 - * THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND CONDITIONS ON SITE

AN INSTRUCTION WILL NOT CONSTITUTE A VARIATION UNLESS APPROVED IN WRITING BY THE ENGINEER.
- POSITION OF EXISTING SERVICES IS GIVEN FOR GUIDANCE ONLY. LOCATIONS AND OR DEPTH MAY NOT BE ACCURATELY REPRESENTED, AND OTHER SERVICES MAY EXIST ON SITE. IT IS THE RESPONSIBILITY OF THE MAIN CONTRACTOR TO VERIFY THE POSITION OF ALL SERVICES PRIOR TO COMMENCING WORK. USE DIAL BEFORE YOU DIG SERVICE AND IF REQUIRED, EXCAVATE WITH CARE NOT TO DAMAGE ANY EXISTING SERVICE.
- THE MAIN CONTRACTOR SHALL COORDINATE ALL SERVICES TO ENSURE THERE ARE NO CLASHES WITH STRUCTURAL ELEMENT LOCATIONS. THE MAIN CONTRACTOR SHALL LOCATE EXISTING SERVICES AND CONTACT ENGINEER FOR ADVICE IF CLASHES OCCUR.
- STRUCTURAL CERTIFICATION OF BALUSTRADES AND HANDRAILS FOR COMPLIANCE WITH THE BUILDING CODE OF AUSTRALIA, AS 1170 AND LOCAL AUTHORITY REGULATIONS SHALL BE PROVIDED BY THE MAIN CONTRACTOR UNLESS OTHERWISE DETAILED ON THESE DRAWINGS.

INSPECTIONS AND CERTIFICATIONS

- ALL TIMING / NOTICE PERIODS ARE IN WORKING HOURS, BASED ON FIVE WORKING DAYS PER WEEK. WEEKENDS, AUSTRALIAN AND BRISBANE PUBLIC HOLIDAYS ARE EXCLUDED FOR IN ALL NOTICES.
- THE MAIN CONTRACTOR IS TO DETERMINE THE REQUIREMENT FOR ENGINEERING INSPECTION OF VARIOUS STRUCTURAL ELEMENTS IN ACCORDANCE WITH THE CERTIFIER OR RELEVANT GOVERNMENT AUTHORITY. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED FOR BOOKING INSPECTIONS OF STRUCTURAL ELEMENTS.
- CERTIFICATION OF STRUCTURAL ELEMENTS WILL ONLY BE PROVIDED WHERE THE ENGINEER HAS INSPECTED AND PASSED THE ELEMENTS PRIOR TO THEIR BEING CONCEALED (E.G. BY SHEETING, POURING CONCRETE ETC.).
- INSPECTION SHOULD BE CALLED FOR EACH ELEMENT DOCUMENTED AS PART OF THIS SET. MAIN CONTRACTOR TO ARRANGE DISCUSSION WITH THE ENGINEER FOR ANY CLARIFICATION PRIOR TO PROJECT COMMENCEMENT.
- INSPECTION CAN BE ARRANGED ON REQUEST BY CONTACTING THE ENGINEER AT THE ADDRESS BELOW.

DESIGN ACTIONS

- GENERAL IMPORTANCE LEVEL 2
- COMBINATIONS OF ACTIONS FOR ULTIMATE AND SERVICEABILITY LIMIT STATES IN ACCORDANCE WITH AS 1170.0.
- IMPOSED ACTIONS IN ACCORDANCE WITH AS 1170.1

Element	Uniformly Distributed Load (KN)	Concentrated Load (KN)
External Slab	5.0	4.5
Walkway Platform	4.0	4.5
Stairs	4.0	4.5
Screw Screen Compactor	7.0 (MAX. WET WEIGHT)	

- WIND ACTIONS IN ACCORDANCE WITH AS 4055
 - REGION : B
 - SHIELDING : NS
 - TOPOGRAPHY : T0
 - TERRAIN CATEGORY : 2
 - WIND CLASSIFICATION : N4

HEALTH AND SAFETY

- THE CONTRACTOR SHALL DEVELOP, IMPLEMENT AND ADMINISTER A WORKPLACE HEALTH AND SAFETY PROGRAM THAT WILL ENSURE THAT ALL CONSTRUCTION ACTIVITIES ARE PERFORMED TO THE RELEVANT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT STATUTORY REQUIREMENTS.
- THE WORKPLACE HEALTH AND SAFETY PROGRAM MUST BE CO-ORDINATED WITH ADJOINING PROPERTY OWNERS AND ALL RELEVANT PARTIES AS NECESSARY TO ENSURE A SAFE BUILDING ENVIRONMENT AT ALL TIMES.

NOTATION

THE FOLLOWING NOTATION IS USED IN THE STRUCTURAL DOCUMENTATION;

- CRS - CENTRES
- DIA - DIAMETER
- HDG - HOT DIPPED GALVANISED
- UNO - UNLESS NOTED OTHERWISE
- NSOP - NOT SHOWN ON PLAN

SITE PREPARATION

- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE SETOUT OF THE PROJECT.
- SOIL CONDITIONS ARE UNKNOWN AS NO GEOTECHNICAL REPORT WAS PROVIDED TO THE ENGINEER.
- THE MAIN CONTRACTOR IS TO SAFELY LOCATE ANY EXISTING SERVICES WITHOUT DAMAGING THEM. ANY SUCH DAMAGE SHALL BE RECTIFIED AT THE MAIN CONTRACTOR'S EXPENSE. OBTAIN APPROVAL FOR THEIR REMOVAL, TEMPORARY SEALING OR PROTECTION AS APPLICABLE.

TEMPORARY WORKS

- THE CONTRACTOR SHALL ALLOW FOR IN HIS PRICE ALL COSTS ASSOCIATED WITH THE DESIGN, SUPPLY, INSTALLATION AND REMOVAL OF ALL TEMPORARY BACK PROPPING, SAFETY SCREENS, SCAFFOLDING AND OTHER REQUIREMENTS OF THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL ENGAGE SUITABLY QUALIFIED ENGINEER REFERRED TO AS 'CONTRACTOR'S ENGINEER'. TO DESIGN, INSPECT AND CERTIFY ALL TEMPORARY WORKS, AND DEMOLITION PLANS.
- THE CONTRACTOR IS TO PROVIDE ALL TEMPORARY WORKS CONTRACTOR'S ENGINEERING DRAWINGS TO THE STRUCTURAL ENGINEER FOR INFORMATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE OVERALL STABILITY OF THE STRUCTURE WHILST UNDER CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ADVICE FROM THE CONTRACTOR'S ENGINEER.
- ALL VERTICAL DISPLACEMENTS AND MOVEMENTS ARE TO BE LIMITED TO ENSURE THE STRUCTURE IS NOT SUBJECTED TO LOADS OR MOVEMENTS CAUSING STRUCTURAL DISTRESS TO ANY ELEMENT WHILE THE STRUCTURE IS BEING TEMPORARILY SUPPORTED

EXCAVATIONS

- ALL EARTHWORKS TO BE IN ACCORDANCE WITH AS 3798.
- THE MAIN CONTRACTOR IS TO ENSURE STABILITY OF ALL EXCAVATIONS AND EXISTING STRUCTURES DURING CONSTRUCTION. EXCAVATIONS DRAWN BEHIND ELEMENTS ARE INDICATIVE ONLY. IT IS THE MAIN CONTRACTOR'S RESPONSIBILITY TO ASSESS ENCOUNTERED GROUND CONDITIONS AND BATTER EXCAVATIONS TO MAINTAIN STABILITY.
- WHERE EXCAVATION WORK IS TO BE CARRIED OUT ADJACENT TO EXISTING FOOTINGS THE EXACT LEVEL OF THE UNDERSIDE OF THE FOOTINGS SHALL BE OBTAINED BY TEST PITS PRIOR TO EXCAVATION. UNDERPINNING AND SHORING OF THE STRUCTURE SHALL BE CARRIED OUT AS DETAILED AND THE EXISTING STRUCTURE SHALL BE MAINTAINED IN A STABLE UNDAMAGED CONDITION, IN CONSULTATION WITH GEOTECHNICAL ENGINEER OR CONTRACTORS ENGINEER.
- ALL TOPSOIL IS TO BE STRIPPED FROM THE FOOTING LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- EARTHWORKS RESULTING IN BATTERS OR EMBANKMENTS MUST COMPLY WITH THE NATIONAL CONSTRUCTION CODE AND BUILDING CODE OF AUSTRALIA PART 3.1.1.

EXCLUSIONS NOTES

- THE STRUCTURAL PACKAGE DOES NOT INCLUDE THE FOLLOWING ITEMS UNLESS NOTED OTHERWISE:
 - DESIGN AND CONSTRUCT ITEMS INCLUDING (BUT NOT LIMITED TO) TRUSSES, TRUSS JOISTS, PILES, SCREW PIERS, LIGHT GAUGE WALL FRAMING, SUSPENDED CEILINGS.
 - TILT PANEL LIFTING, TRANSPORT, HANDLING, ERECTION AND WORKPLACE HEALTH AND SAFETY DESIGN.
 - STAIRS, STRINGERS, TREADS, BALUSTRADES, HANDRAILS.
 - AWNINGS, SUNHOODS.
 - GLAZING.
 - FENCES AND GATES.
 - POOLS.
 - TERMITE PROTECTION.
 - FIRE SEPARATION, PACKING, LININGS AND SEALANTS.
 - WATERPROOFING, FLASHING, TANKING AND DRAINAGE.
 - WORKSHOP DRAWINGS FOR STEEL OR TILT PANELS.
- THE MAIN CONTRACTOR IS TO ARRANGE FOR THE DESIGN, CONSTRUCTION, INSTALLATION AND CERTIFICATION OF THESE ITEMS PRIOR TO CONSTRUCTION.

FOOTINGS AND BORED PIER NOTES

- THE MAIN CONTRACTOR WILL HIRE A GEOTECHNICAL ENGINEER ON HIS OWN EXPENSE TO CONFIRM THE VALUES OF BEARING CAPACITIES AS MENTIONED ON THE STRUCTURAL DRAWINGS FOR ALL SLABS, RETAINING WALLS, POOL SLAB, PIERS AND FOOTINGS.
- FOOTINGS SHALL BE PLACED CENTRALLY UNDER WALLS & COLUMNS UNLESS NOTED OTHERWISE.
- THE FOOTING DETAILS SHOWN ARE FOR THE SITE CLASSIFICATION STIPULATED. WHILST EVERY CARE HAS BEEN TAKEN TO VERIFY THAT THE INFORMATION SHOWN IS CORRECT, STRUCTURAL ENGINEERING AND CERTIFICATION SERVICES TAKES NO RESPONSIBILITY FOR VARIATIONS WHICH MAY OCCUR DUE TO VARIATIONS IN SITE CONDITIONS.
- TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATERIAL SHALL BE REMOVED FROM THE AREA ON WHICH THE SLAB IS TO REST, INCLUDING BASE OF FOUNDATIONS AND PIERS. DEWATER ALL FOOTINGS. ALL CONCRETE TO FOOTINGS WILL BE VIBRATED.
- A 50mm MINIMUM BLINDING LAYER SHOULD BE APPLIED TO THE BASE OF ALL FOUNDATIONS IMMEDIATELY AFTER VERIFICATION OF THE BEARING CAPACITY BY THE GEOTECHNICAL ENGINEER. WHERE THE FOUNDING MATERIAL IS DEEPER THAN REQUIRED FOR THE FOOTING THE EXCAVATION IS TO BE BACKFILLED WITH A WEAK MIX CONCRETE (N10) TO THE UNDERSIDE OF THE FOOTING TO FOUND INTO THE APPROVED FOUNDING MATERIAL.
- IF ANY FOOTING IS LOCATED SUCH THAT A LINE DRAWN AT 45 DEGREES (FOR CLAY & 30 DEGREES FOR SAND) FROM ITS BASE INTERSECTS A PRIVATE SERVICE TRENCH, THEN PIERS ARE REQUIRED. REFER TO THE PRIVATE TRENCH SERVICE DETAIL FOR EXAMPLE.
- FOR SATISFACTORY RESULTS, CONCRETE MUST BE CURED FOR AT LEAST 7 DAYS. CURING MAY BE ACHIEVED BY KEEPING THE CONCRETE MOIST, BY APPLYING A CURING MEMBRANE, OR BY COVERING THE CONCRETE WITH A MOISTURE BARRIER.
- ADDITIONAL FOUNDATION PIERS AND REINFORCING WILL BE REQUIRED WHERE FOUNDING MATERIAL IS LOOSENEED BY EXCAVATIONS FOR SERVICES OR CONSTRUCTED ADJACENT TO FILL BATTERS OR TRENCHES FOR SERVICES.
- UNLESS APPROVED BY STRUCTURAL ENGINEER, EXCAVATIONS SHALL NOT EXTEND BELOW A LINE DIPPING AT 45 DEGREES AND AWAY FROM THE NEAREST UNDERSIDE CORNER OF ANY FOOTING.
- DOCUMENTED PIERS AS SHOWN ON DRAWINGS ARE AS PER SOIL CLASSIFICATION IDENTIFIED IN GEOTECHNICAL REPORT. DEPENDING ON ACTUAL SITE CONDITIONS ENCOUNTERED AFTER EXCAVATION, ADDITIONAL PIERS MAY BE REQUIRED FOR ADEQUATE FOUNDING.
- THE MAIN CONTRACTOR SHALL AT ALL TIMES DURING BORED PIER CONSTRUCTION HAVE A SUITABLE WATER PUMP ON SITE. PROVIDE TEMPORARY LINERS WHERE REQUIRED BY SITE CONDITIONS TO PREVENT WATER INGRESS AND COLLAPSE.
- POSITIONAL TOLERANCE OF BORED PIERS +/- 75 mm.

LONGREACH REGIONAL COUNCIL

DIGITALLY STAMPED APPROVED PLAN

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NOTES:

A	ISSUED FOR APPROVAL	NM	19-08-21
REV:	DESCRIPTION:	BY:	DATE:
STATUS: APPROVAL			



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Upper Mount Gravatt, QLD, 4122
contact : (07)3846 2136
enquire@structuralconsulting.com.au
www.structuralconsulting.com.au

CLIENT:	ACS ENGINEERS		
DESIGNER:			

SITE:	THOMSON RIVER CARAVAN PARK LANDSBOROUGH HWY, LONGREACH		
TITLE:	CONSTRUCTION NOTES SHEET 1		
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
N/A	JUNE 21	N.M.	V.S.
PROJECT NO:	SHEET NO:	REVISION:	
2130	S1.1	A	

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- ALL CONCRETE TO BE IN ACCORDANCE WITH AS 1379.
- CONCRETE TO BE NORMAL CLASS CONCRETE WITH STRENGTH GRADE AND COVER TO REINFORCEMENT FOR PARTICULAR ELEMENTS AS SHOWN ON PLANS.
- ALL NORMAL CLASS CONCRETE TO HAVE THE FOLLOWING BASIC PARAMETERS UNLESS NOTED OTHERWISE;
 - SLUMP AT POINT OF ACCEPTANCE - MAIN CONTRACTOR TO SELECT SLUMP TO SUIT CONSTRUCTION REQUIREMENTS AS ONE OF 70 mm, 80 mm, 90 mm, 100 mm, 110 mm, or 120 mm.
 - MAXIMUM NOMINAL SIZE OF AGGREGATE - 20 mm.
 - SUPPLIER TO SAMPLE TEST AND ASSESS CONCRETE COMPLIANCE IN ACCORDANCE WITH PROJECT ASSESSMENT OF STRENGTH GRADE.
 - NO AIR ENTRAINMENT.
- ALL CONCRETE TO BE VIBRATED USING HIGH FREQUENCY VIBRATORS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND INDUSTRY BEST PRACTICE.
- ALL CONCRETE SURFACES ARE TO BE CURED FOR SEVEN DAYS AFTER CASTING USING A PROPRIETARY LIQUID MEMBRANE CURING COMPOUND THAT CONFORMS TO AS 3799 AND IS COMPATIBLE WITH THE SPECIFIED FINISHES. CURING TO COMMENCE AS SOON AS PRACTICABLE BUT NOT MORE THAN 3 HOURS AFTER COMPLETION OF THE FINISHING OPERATIONS. THE SIDES OF SLABS / BEAMS / PANELS EXPOSED BY THE REMOVAL OF FORMS SHALL BE CURED IN ACCORDANCE WITH THE ABOVE.
- ALL CONCRETE TO BE SAMPLED AND TESTED IN ACCORDANCE WITH AS 1012.1. THE FREQUENCY OF SAMPLING AND TESTING IS TO BE IN ACCORDANCE WITH AS 1379.
- CONCRETE FINISH TO BE BROOM FINISH.
- SLAB SURFACE IN ACCORDANCE WITH NATSPEC (I.E. MAXIMUM DEVIATION FROM A 3m STRAIGHT EDGE IS 3mm).
- THE LISTED SIZE OF CONCRETE ELEMENTS IS THE BARE MINIMUM STRUCTURAL REQUIREMENT AND DOES NOT INCLUDE THICKNESS OF APPLIED FINISHES. PROVIDE CHAMFERS, FILLETS, REGLETS AND DRIP GROOVES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- DO NOT MAKE ANY PENETRATIONS OR CHASES OR EMBED ANY ITEMS OTHER THAN THOSE SHOWN IN THE STRUCTURAL DRAWINGS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONDUITS IN SLABS TO BE MAXIMUM 25 mm DIAMETER, LOCATED IN CENTRE OF SLAB, WITH MINIMUM 500 mm SPACING BETWEEN CONDUITS. IF LARGER AND/OR MORE CONDUITS REQUIRED, CONTACT ENGINEER WITH DETAILS PRIOR TO CONSTRUCTION FOR POSSIBLE RE-DESIGN AND APPROVAL OF REVISED ALLOWABLE CONDUITS
- FORM CONSTRUCTION JOINTS ONLY WHERE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR REVISING ANY LOCATIONS TO SUIT CONSTRUCTIONS REQUIREMENTS.
- THE FACE OF ALL CONCRETE AGAINST WHICH NEW CONCRETE IS TO BE CAST SHALL BE CAST VERTICAL OR HORIZONTAL AND BE THOROUGHLY SCABBLED. UNO
- PROVIDE DEFLECTION HEADS CAPABLE OF +/- 25 mm MOVEMENT TO ALL GLAZING BENEATH SUSPENDED SLABS.

CONNECTION NOTES

- ALL BOLTS, NUTS AND WASHERS TO BE IN ACCORDANCE WITH AS 1110, AS 1111, AS 1112 AND AS 1252 AS APPROPRIATE. x ALL WELDS TO BE IN ACCORDANCE WITH AS 1554.
- USE PRE-QUALIFIED WELDING PROCEDURES AND QUALIFIED PERSONNEL IN ACCORDANCE WITH AS 1554.
- VISUALLY INSPECT ALL WELDS FOR COMPLIANCE.
- ALL POST INSTALLED OR CAST-IN FASTENINGS TO BE IN ACCORDANCE WITH AS5216.

STEELWORK NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1163, AS 1594, AS 3678, AS 3679, AS 4100 AND AS 4600 AS APPROPRIATE.
- IN ACCORDANCE WITH AS 4680 HOT DIP GALVANISE THE FOLLOWING ITEMS: o EXTERNALLY EXPOSED STEELWORK (MINIMUM ZINC COATING THICKNESS TO BE 600gm/m²).
- PROVIDE DRAINAGE HOLES FOR HOT DIP WHERE EXPOSED.
- CHECK ALL DIMENSIONS ON SITE PRIOR TO FABRICATION OF STEELWORK.
- STEEL GRADES AS PER AS 3679 TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - HOT ROLLED SECTIONS: GRADE 300 PLUS
 - WELDED SECTIONS: GRADE 300
 - ANGLE SECTIONS: GRADE 300 PLUS
 - RHS AND SHS SECTIONS: GRADE C350
 - CHS SECTIONS: UP TO 165.1 DIA GRADE C250 OVER 165.1 DIA GRADE C350
 - FLATS AND PLATES: GRADE 250
 - PURLINS AND GIRTS: GRADE 450
- ALL PLATES TO BE 10 MM PLATE UNLESS NOTED OTHERWISE.
- ALL BOLTS BETWEEN STEEL MEMBERS TO BE M20 8.8/S UNLESS NOTED OTHERWISE:
- ALL EXTERIOR BOLTS, NUTS AND WASHERS TO BE STAINLESS STEEL U.N.O.
- THE NOMINAL DIAMETER OF A COMPLETED HOLE OTHER THAN A HOLE IN A BASE PLATE SHALL BE 2mm LARGER THAN THE NOMINAL BOLT DIAMETER FOR A BOLT NOT EXCEEDING 24mm IN DIAMETER AND NOT MORE THAN 3mm LARGER FOR A BOLT OF GREATER DIAMETER.
- FOR A HOLE IN A BASE PLATE, THE HOLE DIAMETER SHALL BE NOT MORE THAN 6mm GREATER THAN THE ANCHOR BOLT DIAMETER. A SPECIAL PLATE WASHER OF MINIMUM THICKNESS 4mm SHALL BE USED UNDER THE NUT IF THE HOLE DIAMETER IS 3mm OR MORE LARGER THAN THE BOLTS DIAMETER. THE PLATE WASHER SHALL COMPLETELY COVER THE HOLE SUCH THAT THE MINIMUM DISTANCE FROM THE EDGE OF THE HOLE TO THE EDGE OF THE PLATE WASHER SHALL BE 0.5 TIMES THE HOLE DIAMETER.
- OXY CUT OR OVERSIZE HOLES SHALL BE FULLY COVERED WITH A PLATE WITH MINIMUM THICKNESS AS PER THE MEMBER WHICH IS OVER CUT (AND MINIMUM OF 8 mm thick) AND FULLY SITE WELDED ALL ROUND.
- ALL WELDS TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - STRUCTURAL PURPOSE (SP):
 - 6mm CONTINUOUS FILLET WELD (CFW) (3mm mig for light gauge sections).
 - WELD ELECTRODES FOR FILLET WELDS TO BE E48XX / W50X.
- SEAL ALL HOLLOW SECTIONS WITH 4mm plate, 4mm seal weld.
- DO NOT MAKE ANY PENETRATIONS OR CUTS OTHER THAN THOSE SHOWN IN THE DRAWINGS WITHOUT PRIOR APPROVAL OF THE ENGINEER
- FABRICATOR IS TO PROVIDE THE ENGINEER WITH 3 COPIES OF WORKSHOP DRAWINGS FOR INSPECTION BEFORE COMMENCEMENT OF FABRICATION. FABRICATOR IS TO ALLOW 10 WORKING DAYS FOR REVIEW OF DRAWINGS.

LONGREACH REGIONAL COUNCIL

DIGITALLY STAMPED APPROVED PLAN

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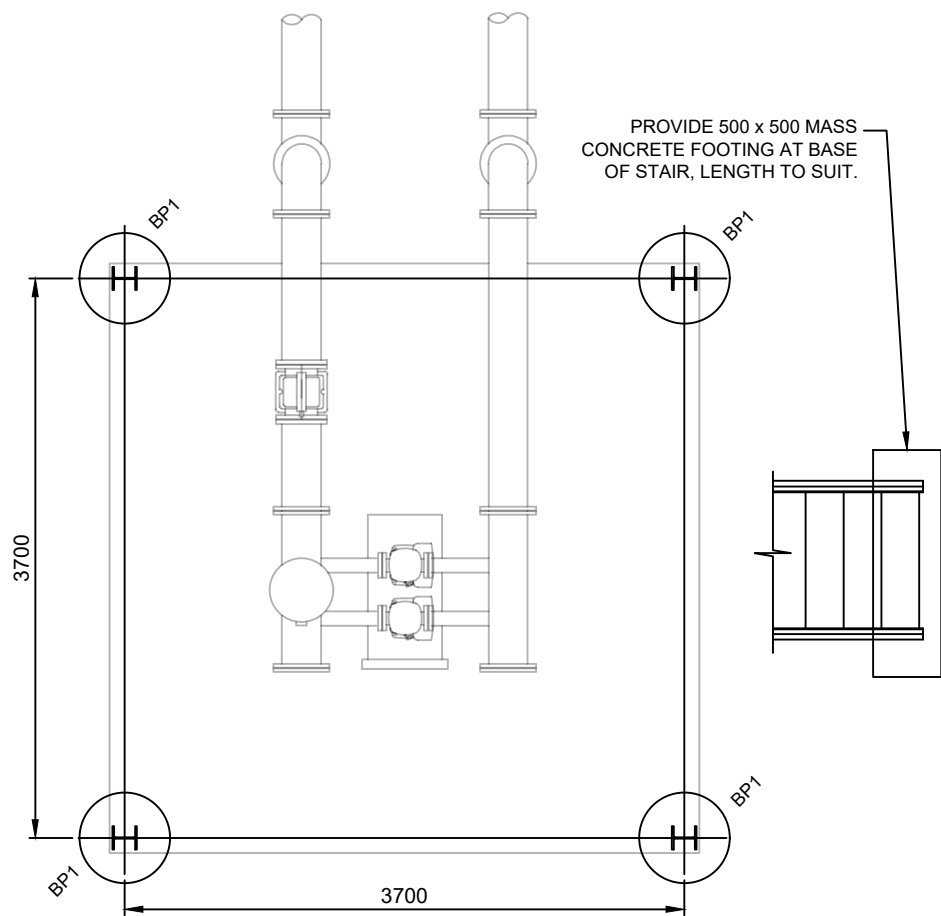


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CLIENT:	ACS ENGINEERS
DESIGNER:	

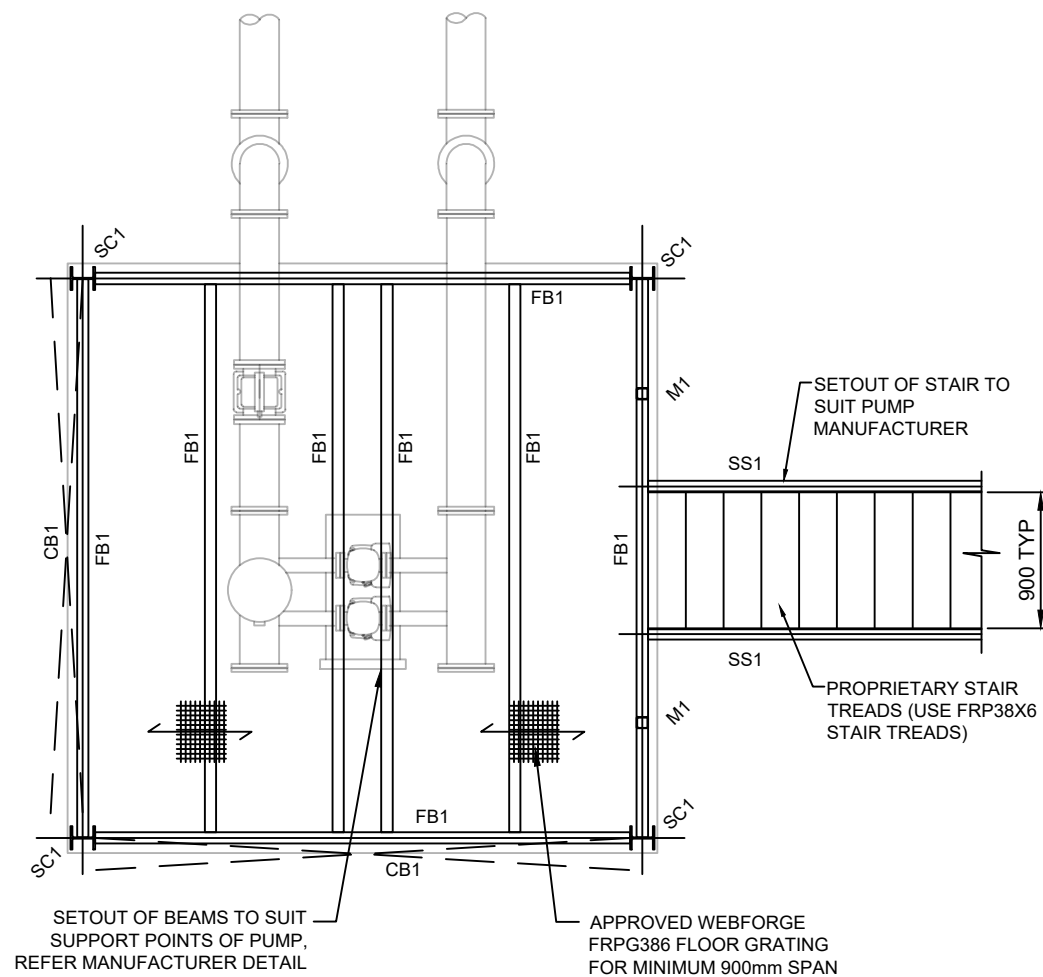
SITE:	THOMSON RIVER CARAVAN PARK LANDSBOROUGH HWY, LONGREACH		
TITLE:	CONSTRUCTION NOTES SHEET 2		
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
N/A	JUNE 21	N.M.	V.S.
PROJECT NO:	SHEET NO:	REVISION:	
2130	S1.2	A	

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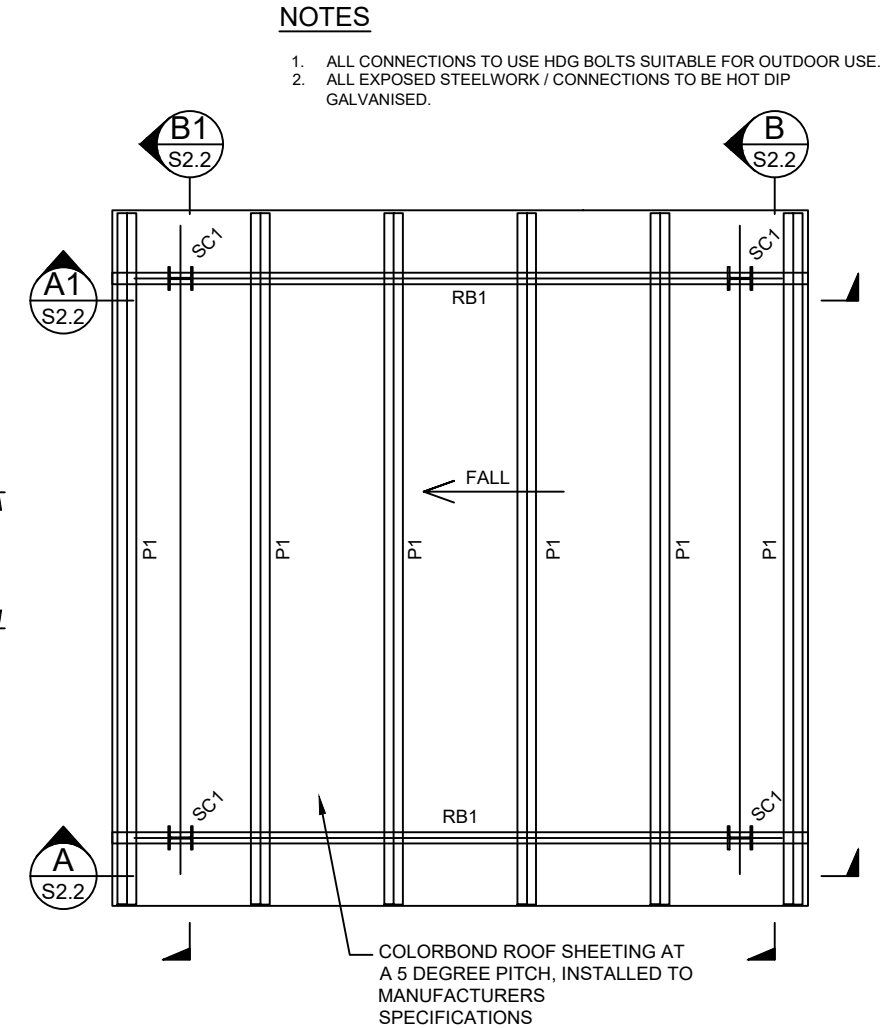
FOUNDATION PLAN
SCALE 1:50

CONCRETE NOTES	
CONCRETE STRENGTH AT 28 DAYS	
PIERS/FOOTINGS	32 MPa
REINFORCEMENT COVERS	
FOOTINGS	60mm

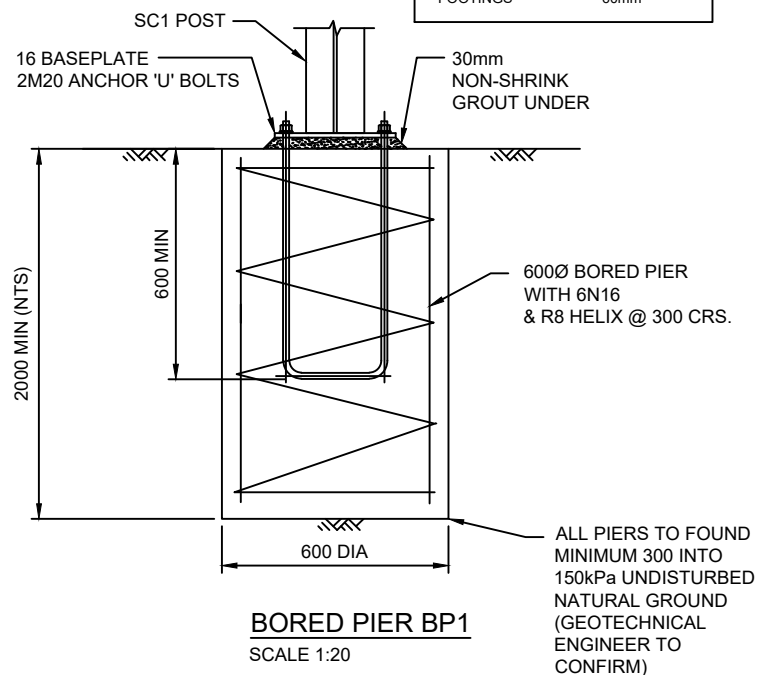


PUMP PLATFORM PLAN
SCALE 1:50

- NOTES:
- ALL SETOUT TO PUMP MANUFACTURERS REQUIREMENTS.
 - REFER CONSTRUCTION NOTES FOR MAXIMUM DESIGN LOADS.
 - ALL BOLTS AND FIXINGS TO BE STAINLESS STEEL.



PUMP PLATFORM ROOF PLAN
SCALE 1:50



BORED PIER BP1
SCALE 1:20

ALL PIERS TO FOUND MINIMUM 300 INTO 150kPa UNDISTURBED NATURAL GROUND (GEOTECHNICAL ENGINEER TO CONFIRM)

MEMBER SCHEDULE	
TYPE	MEMBER
SC1	150UC37 POST
M1	75x4 SHS DOOR MULLION
FB1	200x75 PFC FLOOR BEAM
CB1	12mm DIA ROD WITH TURNBUCKLE
SS1	200x75 PFC STAIR STRINGER
RB1	150x75 PFC ROOF BEAM
P1	Z15019 PURLINS AT 900 CRS

REFER GRATING DETAIL ON BEAM ON DWG S2.2 FOR ADDITIONAL 50x6 EA ON FB1

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- NOTES:**
- DO NOT SCALE FROM DRAWINGS. REFER ARCHITECTS DRAWINGS FOR SETOUTS AND DIMENSIONS.
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A	ISSUED FOR APPROVAL	NM	19-08-21
REV:	DESCRIPTION:	BY:	DATE:
STATUS: APPROVAL			

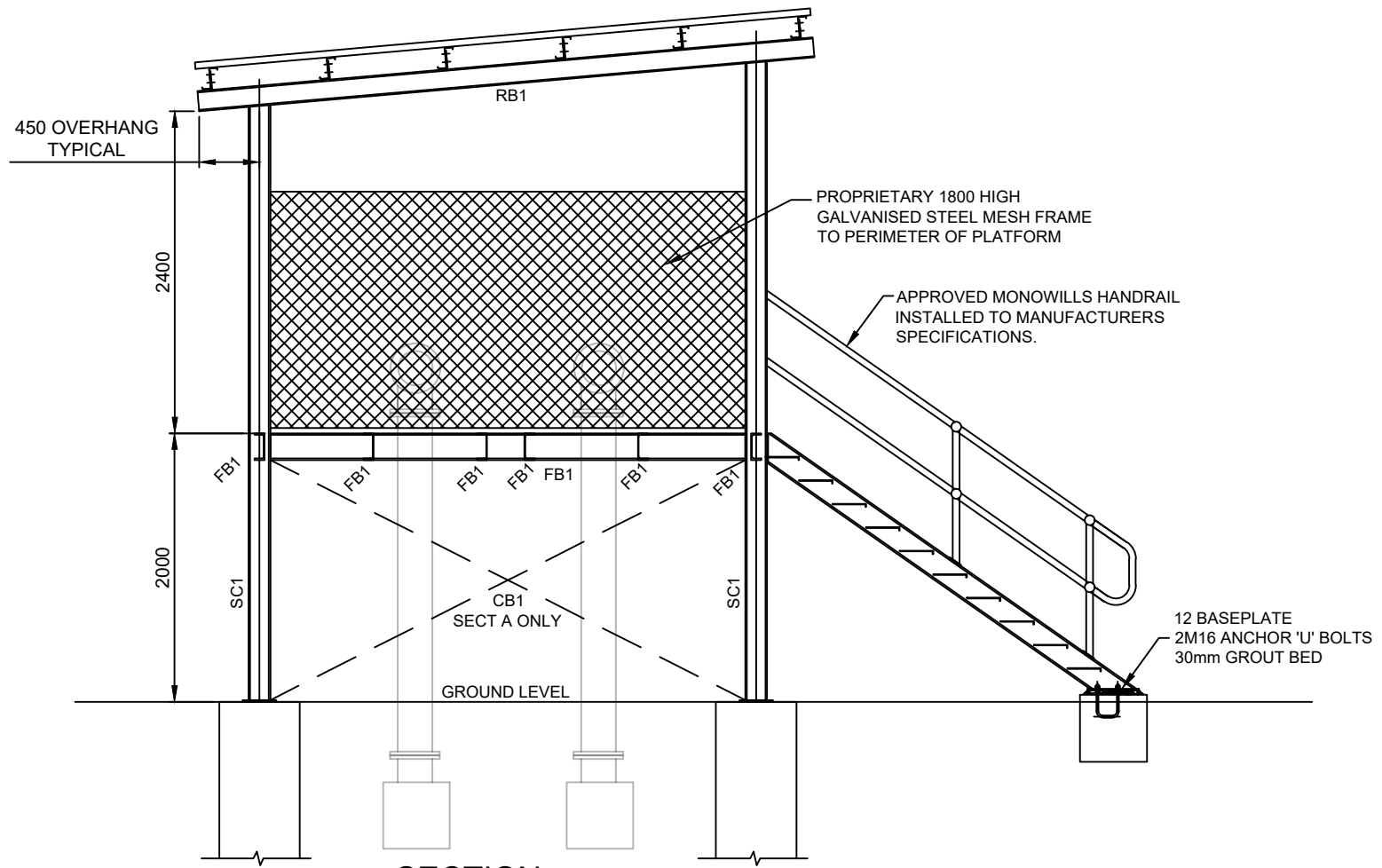


Structural Engineering & Certification Services
Level 1, Suite 3, 2036 Logan Road
Upper Mount Gravatt, QLD, 4122
contact : (07)3846 2136
enquire@structuralconsulting.com.au
www.structuralconsulting.com.au

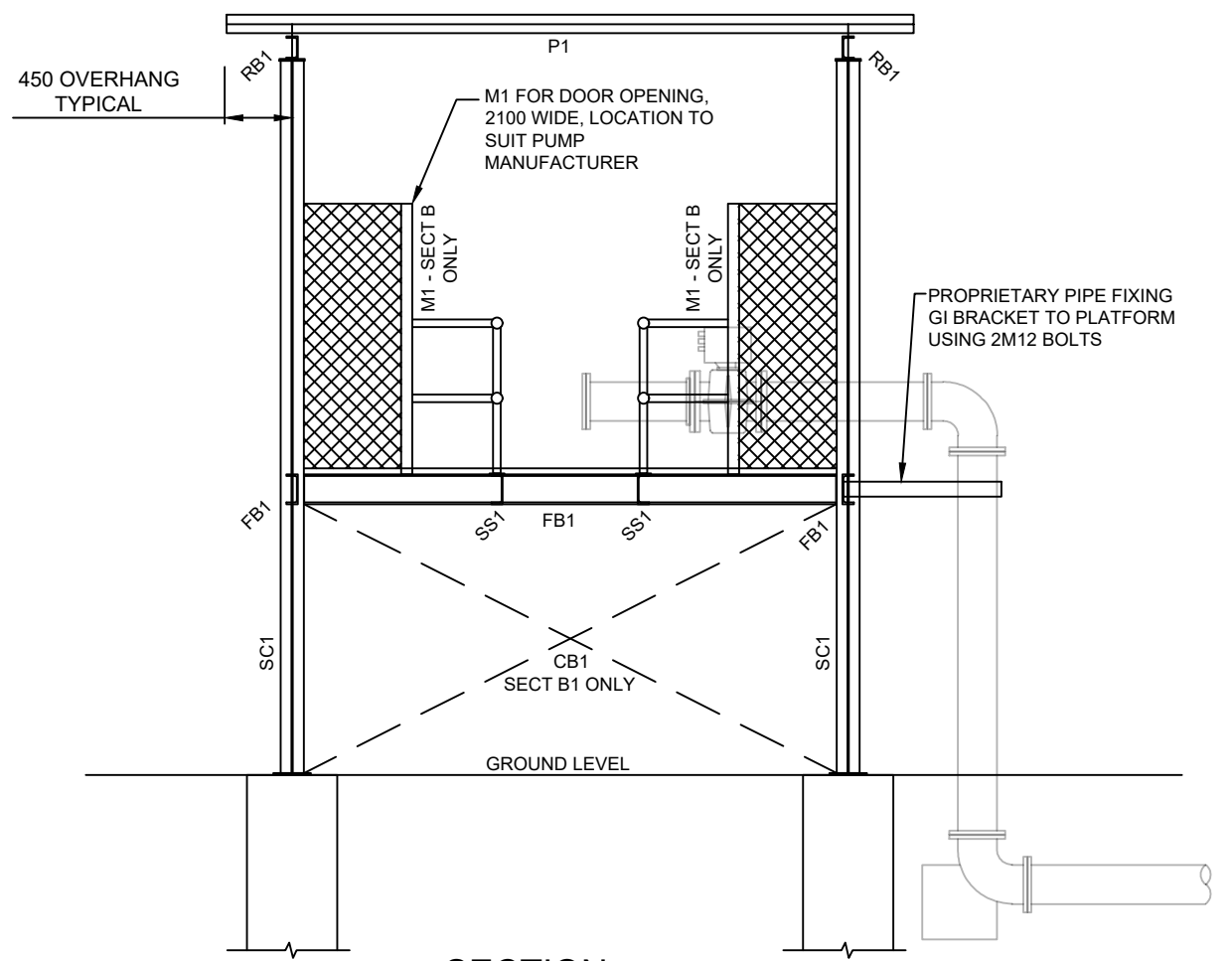
CLIENT:	ACS ENGINEERS
DESIGNER:	

SITE: THOMSON RIVER CARAVAN PARK LANDSBOROUGH HWY, LONGREACH			
TITLE: PUMP PLATFORM PLANS			
SCALE AT A3: 1:50,20	DATE: JUNE 21	DRAWN: N.M.	CHECKED: V.S.
PROJECT NO: 2130	SHEET NO: S2.1	REVISION: A	

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SECTION A
SCALE 1:50
SECTION A1 SIM.



SECTION B
SCALE 1:50
SECTION B1 SIM.

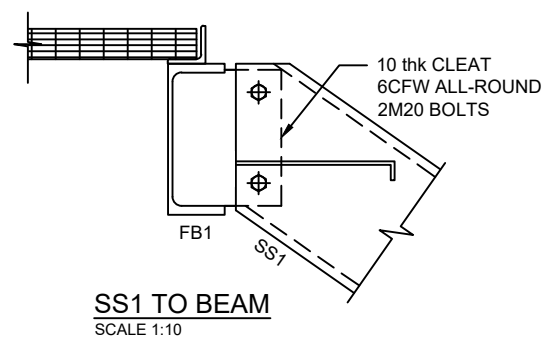
LONGREACH REGIONAL COUNCIL

DIGITALLY STAMPED APPROVED PLAN

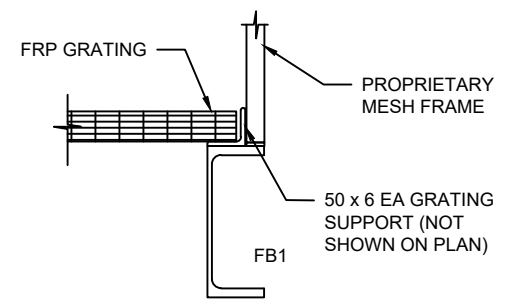
Development Application: Development Permit for Operational Works (External Road Works, Internal Road Works and Parking, Earthworks, Stormwater and Drainage Works, Water Supply Connection).

Address and RP Description: Landsborough Highway, Longreach (Lot 30 C22867 and Lot 32 C22880)

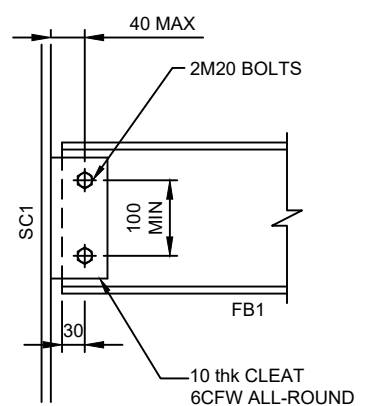
Referred to in Council's Decision Notice
Approval Date: 18 November 2021
Application Number: DA 21/22-005



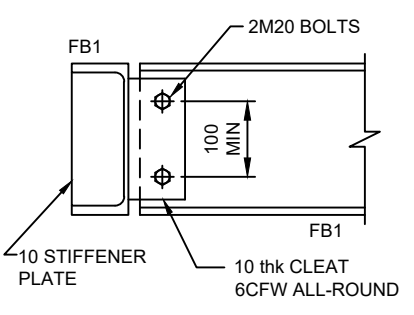
SS1 TO BEAM
SCALE 1:10



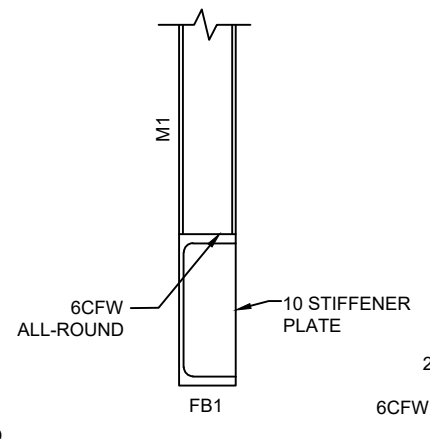
GRATING DETAIL AT BEAM
SCALE 1:10



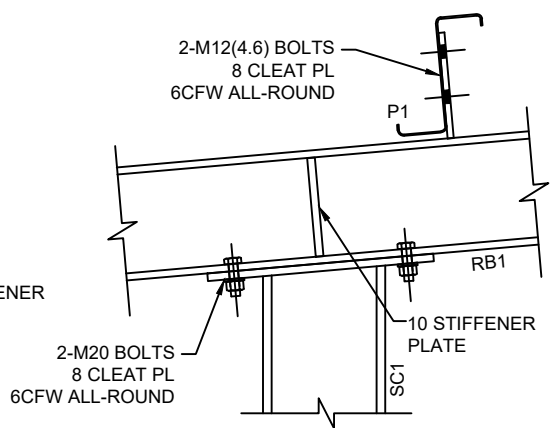
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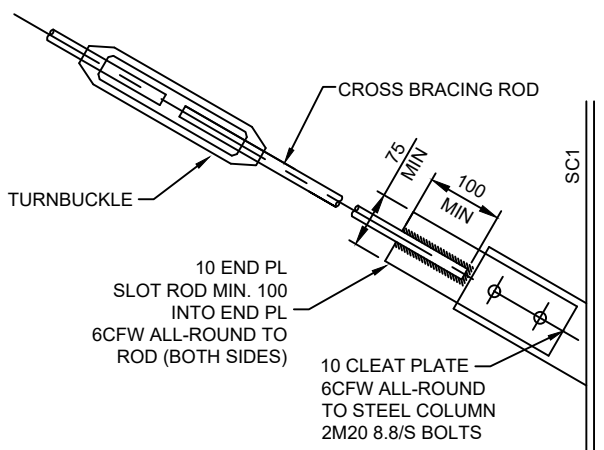
FB1 BEAM TO BEAM
SCALE 1:10



M1 TO BEAM
SCALE 1:10



RB1 TO POST
SCALE 1:10



CROSS BRACING TO POST
SCALE 1:10

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CLIENT: ACS ENGINEERS

DESIGNER:

SITE: THOMSON RIVER CARAVAN PARK LANDSBOROUGH HWY, LONGREACH			
TITLE: PUMP PLATFORM SECTIONS AND DETAILS			
SCALE AT A3: 1:50,10	DATE: JUNE 21	DRAWN: N.M.	CHECKED: V.S.
PROJECT NO: 2130	SHEET NO: S2.2	REVISION: A	