

1. THE WHOLE OF THE PLUMBING AND DRAINAGE WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
 - NSW HEALTH ADVISORY NOTE 3: DESTRUCTION, REMOVAL OR REUSE OF SEPTIC TANKS, COLLECTION LINES, AERATED WASTEWATER TREATMENT SYSTEMS (AWTS) AND OTHER SEWAGE MANAGEMENT FACILITIES (SMF).
 - WSA02-2002-1. PLANNING AND DESIGN.
2. THE DRAWINGS ARE A GUIDE ONLY FOR THE POSITIONS, LAYOUT AND SIZING OF THE SERVICE PIPES. FINAL LOCATIONS OF ALL FIXTURES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE ARCHITECTS DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE PROJECT MANAGER.
3. THE CONTRACTOR IS TO VERIFY THE POSITIONS OF ALL DRAINAGE PIPES AND SERVICE LINES AND THAT THE INVERT AND SURFACE LEVELS ARE CORRECT BEFORE COMMENCING WORK.
4. ALL MATERIALS WILL BE IN ACCORDANCE WITH THE BCA AND THE REQUIREMENTS OF THE BUILDING CERTIFIER AND THE PLUMBING INSPECTOR. ENSURE MATERIALS MEET THE FIRE RATING REQUIREMENTS OF THE BCA.
5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADE CONTRACTORS AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATION.
6. ALL VENT PIPES SHALL TERMINATE ABOVE THE ROOF.
7. THE WATER SUPPLY INSTALLATION AND PIPEWORK SHALL COMPLY WITH AS/NZS 3500 PART 1, CONCERNING BACKFLOW PREVENTION. ALL BACKFLOW PREVENTION VALVES SHALL COMPLY WITH AS 2845 AND BE PROVIDED WITH DRAINS WHERE REQUIRED. ALL HOSE TAPS SHALL HAVE A VACUUM BREAKER INSTALLED TO AS/NZS 3500.1, SECTION 4.
8. PENETRATIONS THROUGH FIRE RATED STRUCTURES SHALL HAVE FIRE COLLARS INSTALLED AS NECESSARY TO PRESERVE THE INTEGRITY OF THE STRUCTURE.
9. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS NECESSARY TO COMPLETE AN OPERATIONAL SYSTEM AS THOUGH SHOWN IN THE DOCUMENTS IN FULL.
10. WATER PIPE SIZES ON DRAWINGS ARE BASED ON COPPER PIPE DIMENSIONS.
11. ABOVE GROUND PIPEWORK SHALL BE MARKED SHOWING SERVICE AND FLOW DIRECTION. LABELS SHALL BE AT A MAXIMUM 6 METERS APART. NON-POTABLE WATER SHALL BE IDENTIFIED AND MARKED AS PER CODE REQUIREMENTS.
12. APPROVED AS INSTALLED DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR.
13. ALLOW TO SUPPLY AND INSTALL SANITARY FIXTURES, TAPWARE AND FITTINGS COMPLETE WITH ALL BRACKETS, SEALANTS, UNIONS, ETC.
14. PROPRIETARY BRAND NAMES USED ARE DESCRIPTIVE. EQUAL QUALITY AND PERFORMANCE APPROVED ALTERNATIVE MAKES MAY BE USED.
15. ACOUSTIC RATINGS SHALL BE ACHIEVED IN COMPLIANCE WITH THE BCA.
16. ISOLATION VALVES ARE TO BE LOCATED IN ACCESSIBLE LOCATION OR BE PROVIDED WITH ACCESS PANEL.
17. TANK BASE TO BE EPOXY LINED WITH FLEXIBLE WATERPROOFING MEMBRANE THROUGHOUT WET WELL AND EMERGENCY LINK UNDERGROUND. CONTRACTOR TO ALLOW FOR RE-COATING OF WATERPROOFING MEMBRANE. CONTRACTOR TO UTILISE SPECIALIST CONTRACTOR FOR TREATMENTS TO BE INCORPORATED AS A COMPLETE WATERPROOF SYSTEM.
18. ALL PENETRATIONS SHALL BE SEALED WITH CHAIN LINK AND HYDROPHILIC SEALANT.
19. PAINT EXTERIOR WALL AND DRY WELL WALLS WITH HYDROPHOBIC PAINT AND SEALANT (3 LAYERS)

ABBREVIATIONS	
AAV	AIR ADMITTANCE VALVE
ADWF	AVERAGE DRY WEATHER FLOW
AP	ACCESS PANEL
C	CONDUIT
CO	CLEAR OUT
CP	CONTROL PANEL
CU	COPPER
CVP	CHAMBER VENT PIPE
CW	COLD WATER
FFL	FINISHED FLOOR LEVEL
FW	FLOOR WASTE
G	GULLY
GL	GROUND LEVEL
HT	HOSE TAP
KGV	KNIFE GATE VALVE
N/C	NORMALLY CLOSED
PDWF	PEAK DRY WEATHER FLOW
PWWF	PEAK WET WEATHER FLOW
OFG	OVER FLOW GULLY
RPZD	REDUCED PRESSURE ZONE DEVICE
SPS	SEWER PUMP STATION
SRM	SEWER RISING MAIN
SSIEW	SAFETY SHOWER / EYE WASH
SW	STORM WATER
SV	STOP VALVE
TBC	TO BE CONFIRMED
Typ	TYPICAL
UG	UNDER GROUND
VP	VENT PIPE

25	CHECK NOISE LEVELS FOR PUMPING STATION AND ALTERNATING SET
26	CONDUCT PRE-COMMISSIONING TESTS IN CONJUNCTION WITH THE WATER AGENCY RECORDING ALL TEST RESULTS OBSERVATIONS AND PROVIDING RELEVANT COMMENT AS REQUIRED
27	CHECK THAT ALL O&M MANUALS, AND EQUIPMENT FACTORY TEST REPORTS ARE AVAILABLE

58	CHECK ALL CONTROL SWITCHES AND SEQUENCES OPERATE AS SPECIFIED
59	CHECK CALIBRATION OF ALL ANALOGUE SIGNALS (INCLUDING FLOW AND PRESSURE TRANSMITTERS)
60	CHECK SETTING OF ALL PRESSURE SWITCHES
61	CHECK THAT ALL ALARMS ARE TRANSMITTED BACK TO CENTRAL ALARM MONITORING POINT
62	CHECK SIGNAL STRENGTH AND FADE MARGINS ON RADIO TX/RX IF INSTALLED
63	CHECK AERIAL SUPPORTS AND MAST IF RADIO COMMUNICATIONS ARE SPECIFIED
64	MEASURE THE VOLTAGES BOTH PHASE TO PHASE AND PHASE TO NEUTRAL. COMPARE THE ACTUAL VOLTAGES RELATIVE TO TYPICAL NO-LOAD VOLTAGE OF 435/250V, AND THE VOLTAGE VARIATION BETWEEN PHASES SHOULD BE LESS THAN 2%
65	WITH THE MAIN SWITCH, PUMP CIRCUIT BREAKERS AND CONTROL ISOLATING SWITCHES OFF, MEGGER ALL MOTORS AT 500V. THIS MUST GIVE GREATER THAN 1 Mohm, AND IDEALLY GREATER THAN 30 Mohm RECORD RESULTS: PUMP 1.....Mohm PUMP 2.....Mohm PUMP 3.....Mohm
66	IF THERMISTORS ARE FITTED, USE A LOW VOLTAGE OHMMETER TO CHECK THAT THE RESISTANCE T1 TO T2 IS BETWEEN 150 AND 600 ohms RECORD RESULTS: PUMP 1.....ohm PUMP 2.....ohm PUMP 3.....ohm
67	WITH S1 DISCONNECTED, CHECK FOR A RESISTANCE OF ABOVE 40 Kohm BETWEEN CONTROL CORES S1 AND S2 (OR S1 AND EARTH WITH FLYGT PUMPS) AGAIN USING A LOW VOLTAGE OHMMETER RECORD RESULTS: PUMP 1.....Kohm PUMP 2.....Kohm PUMP 3.....Kohm
68	WITH FLYGT PUMPS, ENSURE THAT AN EARTH HAS BEEN PUT ON S2
69	CHECK OPERATION OF ALL LOCKS ON SWITCHBOARDS
70	CHECK THAT UPDATED ELECTRICAL DRAWINGS ARE STORED ON SITE
71	INITIATE A MAINS POWER FAILURE, AND CHECK THAT ALTERNATOR STARTS AUTOMATICALLY (IF SPECIFIED)

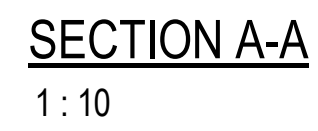
		AND/OR COLLECTION TO BE REMOVED. APPROVAL OF THE LOCAL COUNCIL UNDER SECTION 68 OF THE LOCAL GOVERNMENT ACT IS TO BE OBTAINED BEFORE THE VESSEL IS REINSTALLED INCLUDING REQUIRED COUNCIL INSPECTIONS DURING DECOMMISSIONING AND PUMP OUT.
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GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT		
Title		
HYDRAULIC SERVICES LEGEND AND NOTES		
Scale		
		
Drawn KN	Checked VP	Approved HW
Project Number		Revision
S210157 GLN-H-D-00001		D

DIMENSIONS SHOWN ON THIS DOCUMENT MAY BE SUBJECT
TO CHANGE PENDING SUPPLIER SELECTION. TREAT
INDICATIVELY

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A diagram of a circular protractor. A vertical line passes through the center. Another line is drawn from the center, labeled 'NORTH', pointing towards the top of the circle. The angle between the vertical line and the 'NORTH' line is marked with an arc.



AD1 - ACOUSTIC DOOR DETAIL
N.T.S.

NOISE REDUCTION (dB)							
MODEL	OCTAVE BAND CENTRE FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000	
SERIES 100	14	14	16	21	27	27	dB

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Project Number	Drawing Number	Revision
S210157	GLN-H-D-00004	D

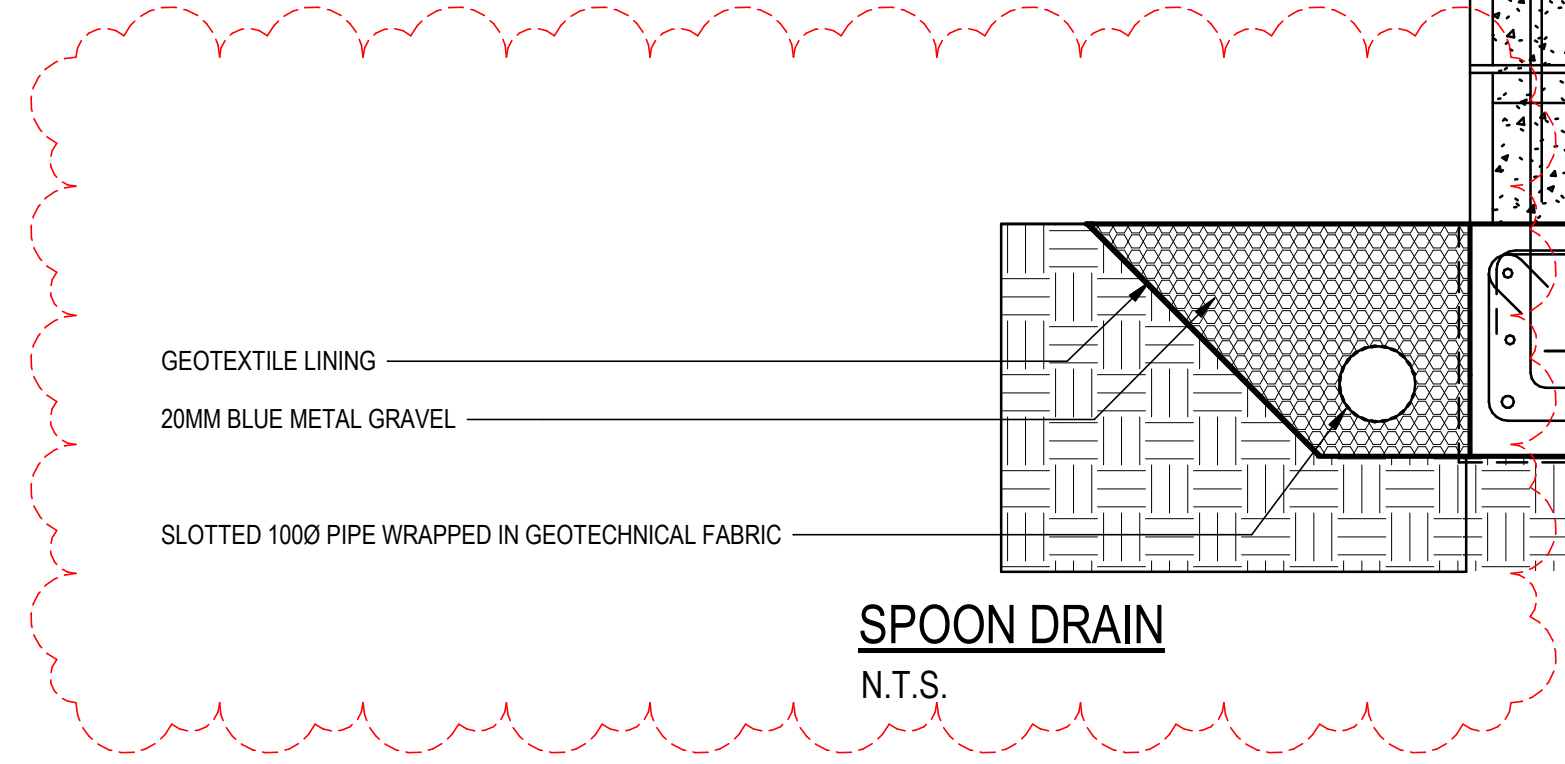


Project Number	Drawing Number	Revision
S210157	GLN-E-D-20002	D

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Project Number	Drawing Number	Revision
S210157	GLN-H-D-00005	D



GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

LAND DISTURBANCE INSTRUCTIONS

1. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES. THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
 - a. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
 - b. CONSTRUCT THE STABILISED SITE ACCESS.
 - c. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
 - d. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
 - e. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
 - f. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
 - g. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
 - h. GRADE LOT AREAS TO FINAL GRADINGS AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
 - i. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. SENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE INSPECTION AND MAINTENANCE INSTRUCTIONS

1. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
 - a. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
 - b. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
 - c. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
 - d. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
 - e. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE SUBJECT WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
 - f. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
2. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
 - a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
 - b. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
 - c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
 - d. THE NEED FOR DUST PREVENTION STRATEGIES.
 - e. ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SEDIMENT CONTROL INSTRUCTIONS

1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOLID AS NEAR AS POSSIBLE TO THEIR SOURCE.
2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS WHICH INCLUDE AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
6. ACCESS TO SITES SHOULD BE ESTABLISHED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

- a. 2(H)/1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
- b. 2.5(H)/1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
- c. 3(H)/1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
- d. 4(H)/1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1.20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5.1 OF "MANAGING URBAN STORMWATER- SOILS AND CONSTRUCTION", DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.1 (60% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
6. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
7. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
8. RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

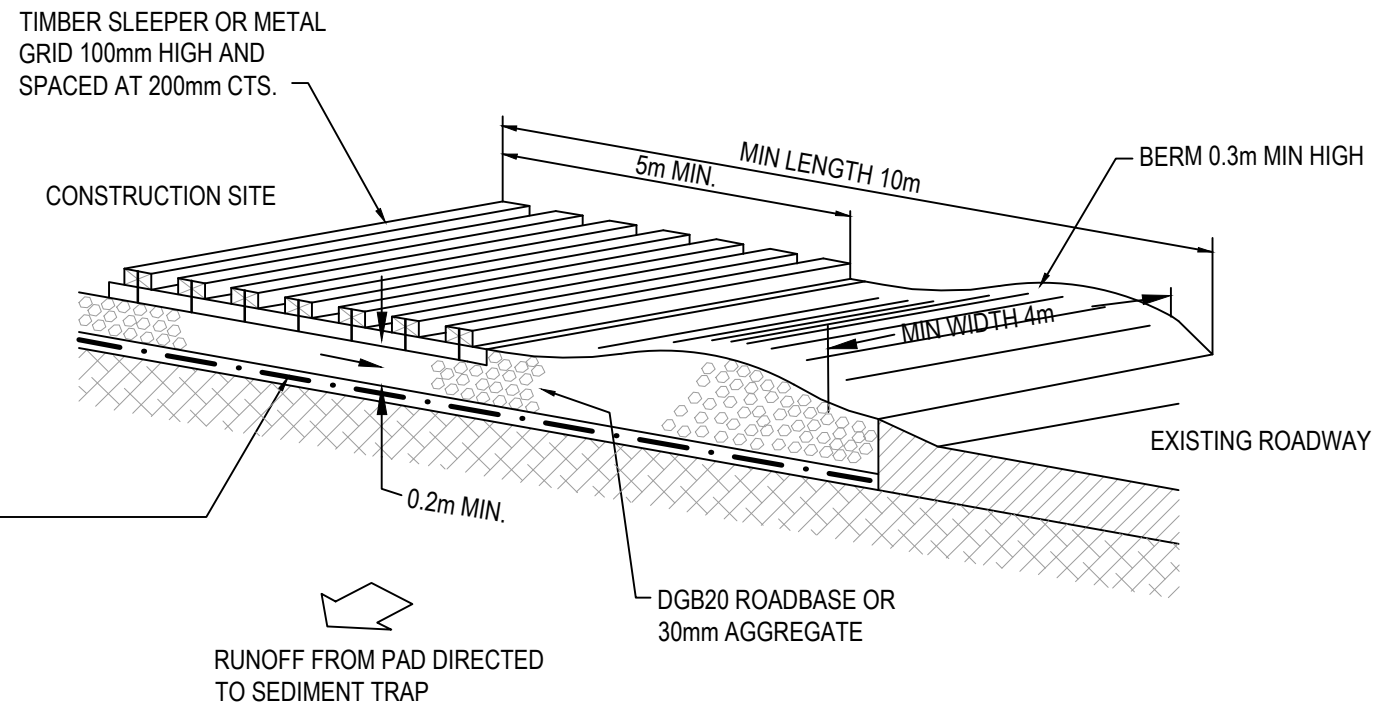
1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SURFACES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINAGE AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
3. ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

NOTE:

1. CONTRACTOR SHALL CONDUCT A DIAL BEFORE YOU DIG SEARCH PRIOR TO COMMENCEMENT OF ANY WORK
2. ENSURE THAT ALL COUNCIL AND PUBLIC UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT



GEOTEXTILE FABRIC DESIGNED TO PREVENT
INTERMIXING OF SUBGRADE AND BASE
MATERIALS AND TO MAINTAIN GOOD
PROPERTIES OF THE SUB-BASE LAYERS.
GEOTEXTILE MAY BE WOVEN OR NEEDLE
PUNCHED PRODUCT WITH A MINIMUM CBR
BURST STRENGTH (AS3706.4-90) OF 2500N.



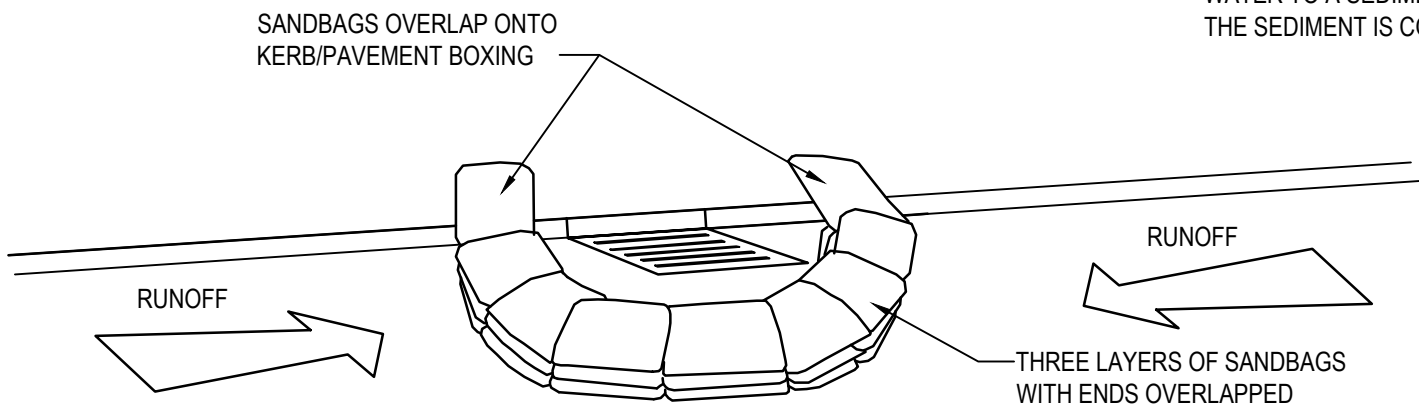
CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200MM THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30MM AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

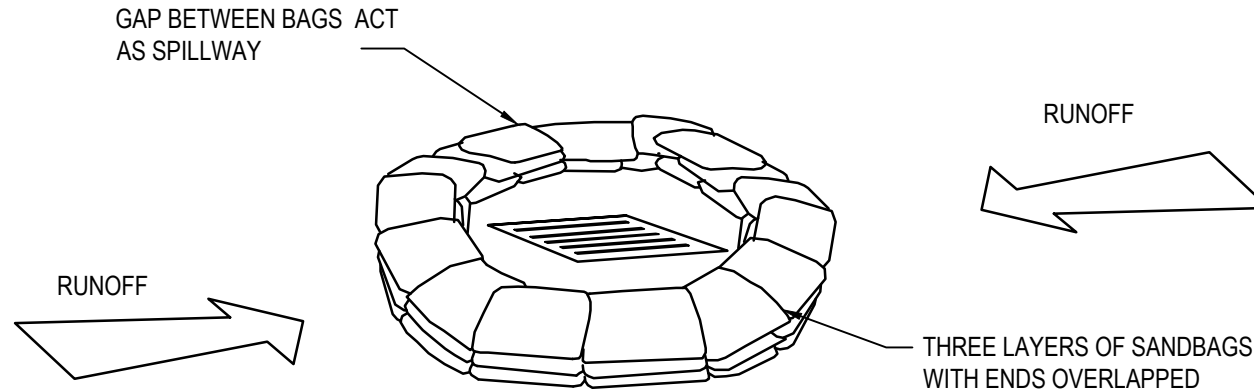
MAINTENANCE NOTES

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT



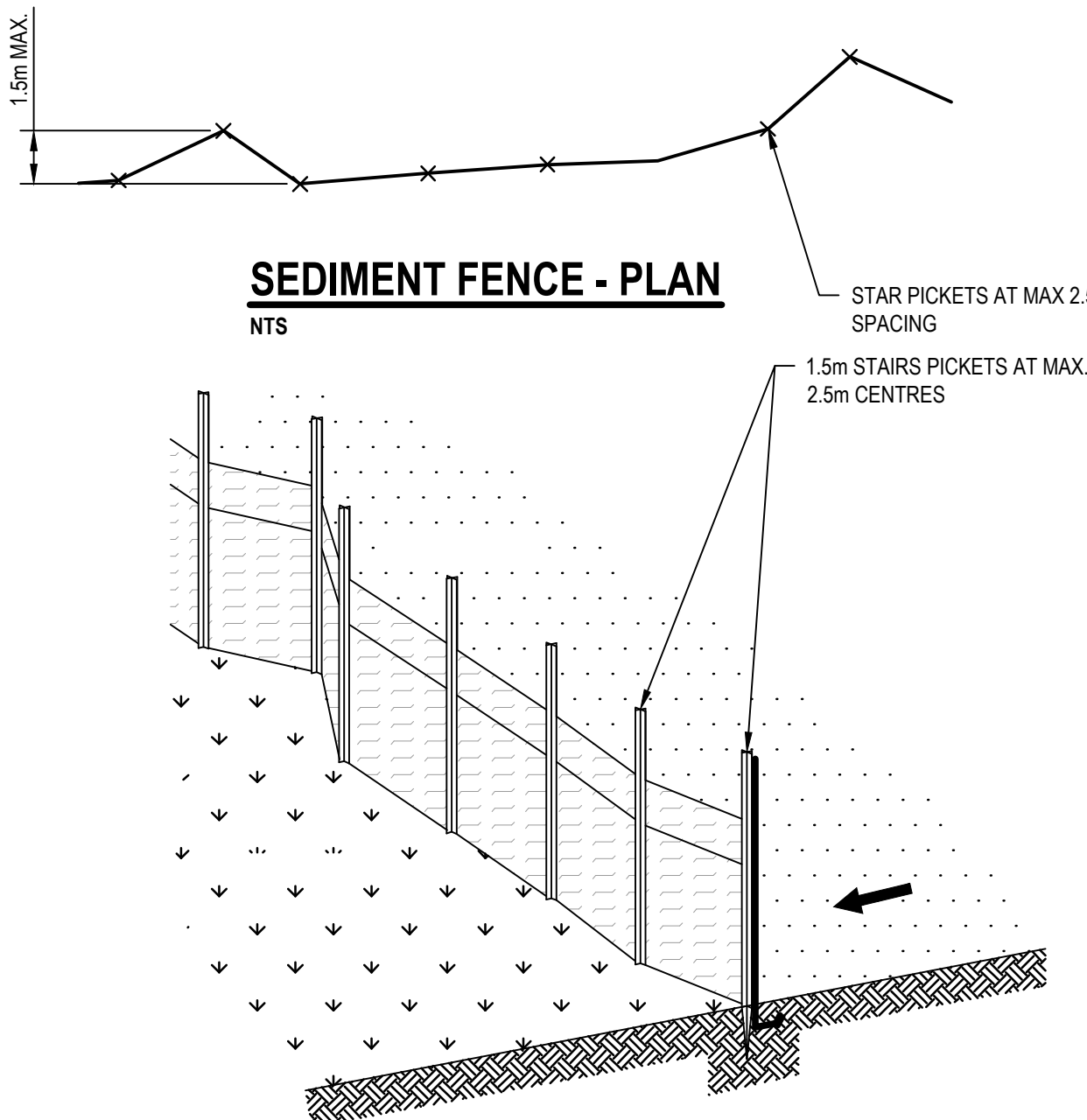
SANDBAG SEDIMENT TRAP - AT KERB SAG PIT



SANDBAG SEDIMENT TRAP - AT OTHER THAN KERB SAG PIT

SANDBAG SEDIMENT TRAP DETAILS

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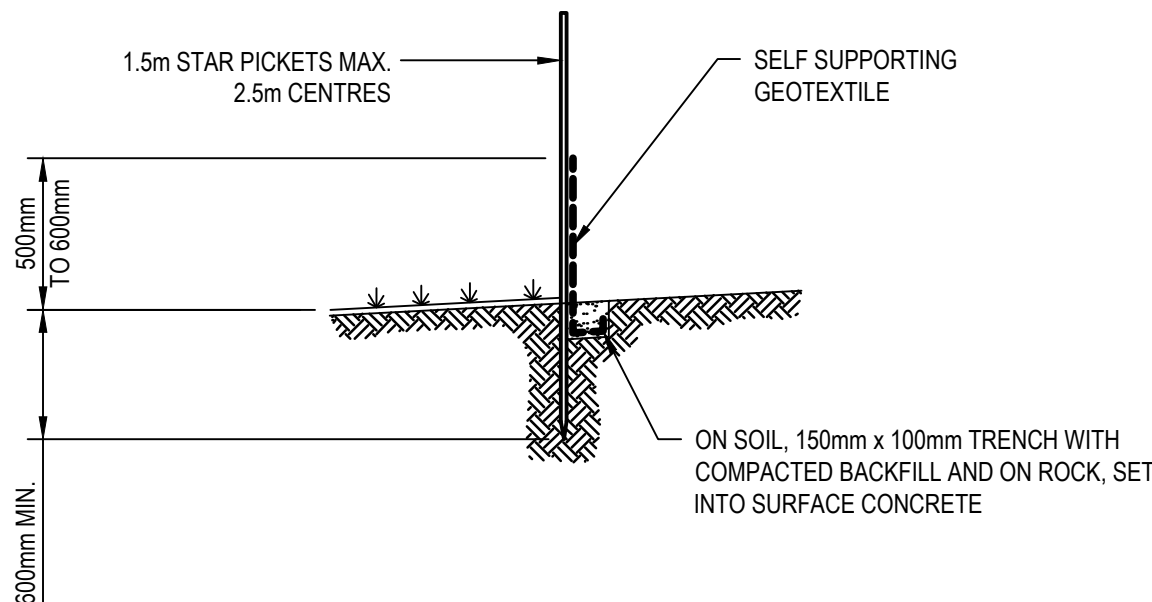
SEDIMENT FENCE

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SEDIMENT FENCE

ENTS

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BE 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/sec 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 METER LONG STAR PICKETS INTO GROUND AT 2.5 METER 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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A	TENDER ADDENDUM	24/03/2022
Rev	Revision Description	Date



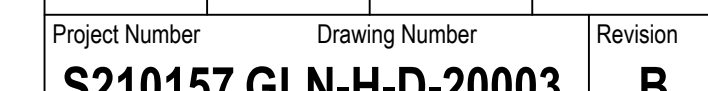
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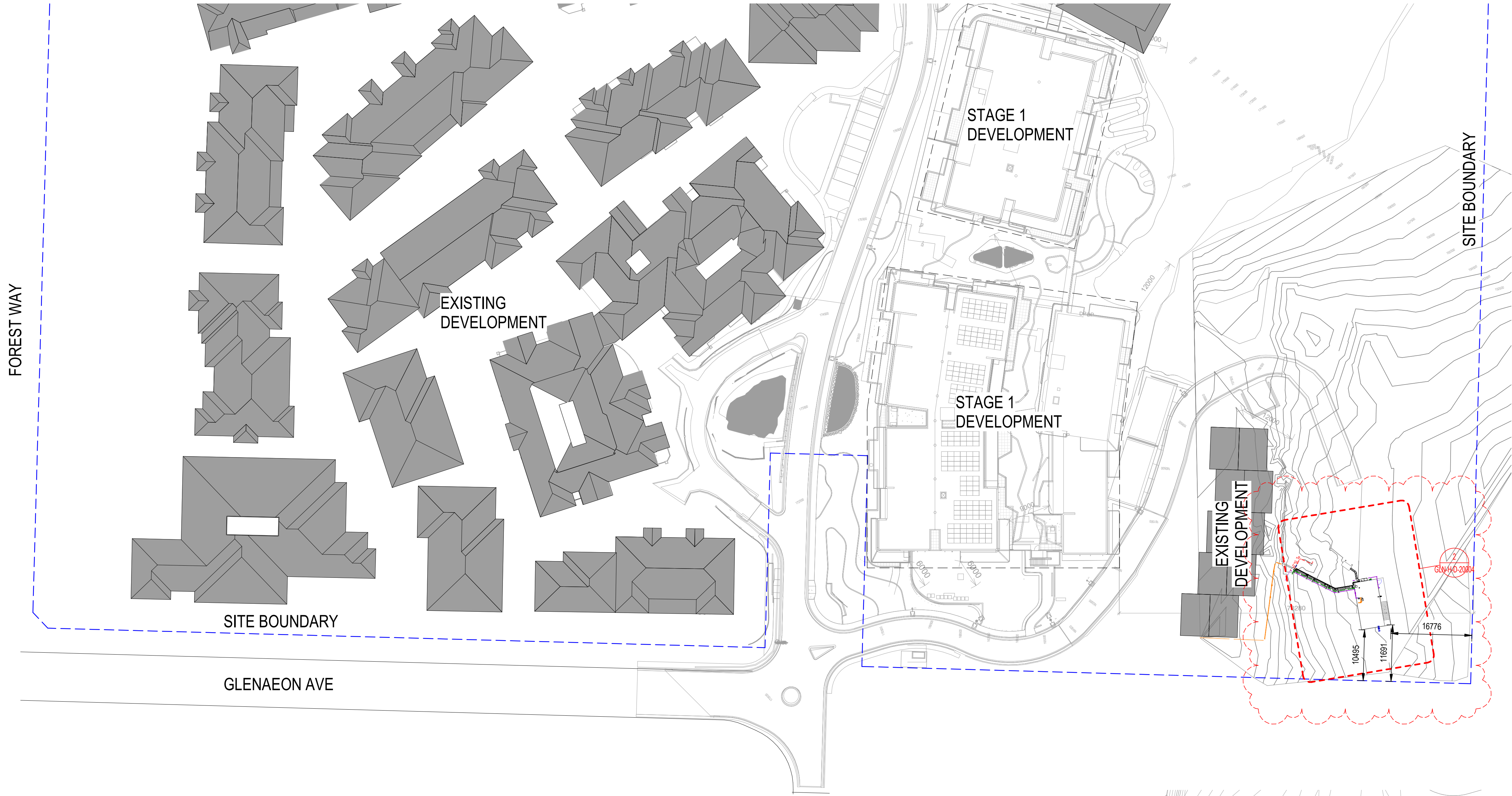
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Project	GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT
Title	EROSION SOIL CONTROL DETAILS

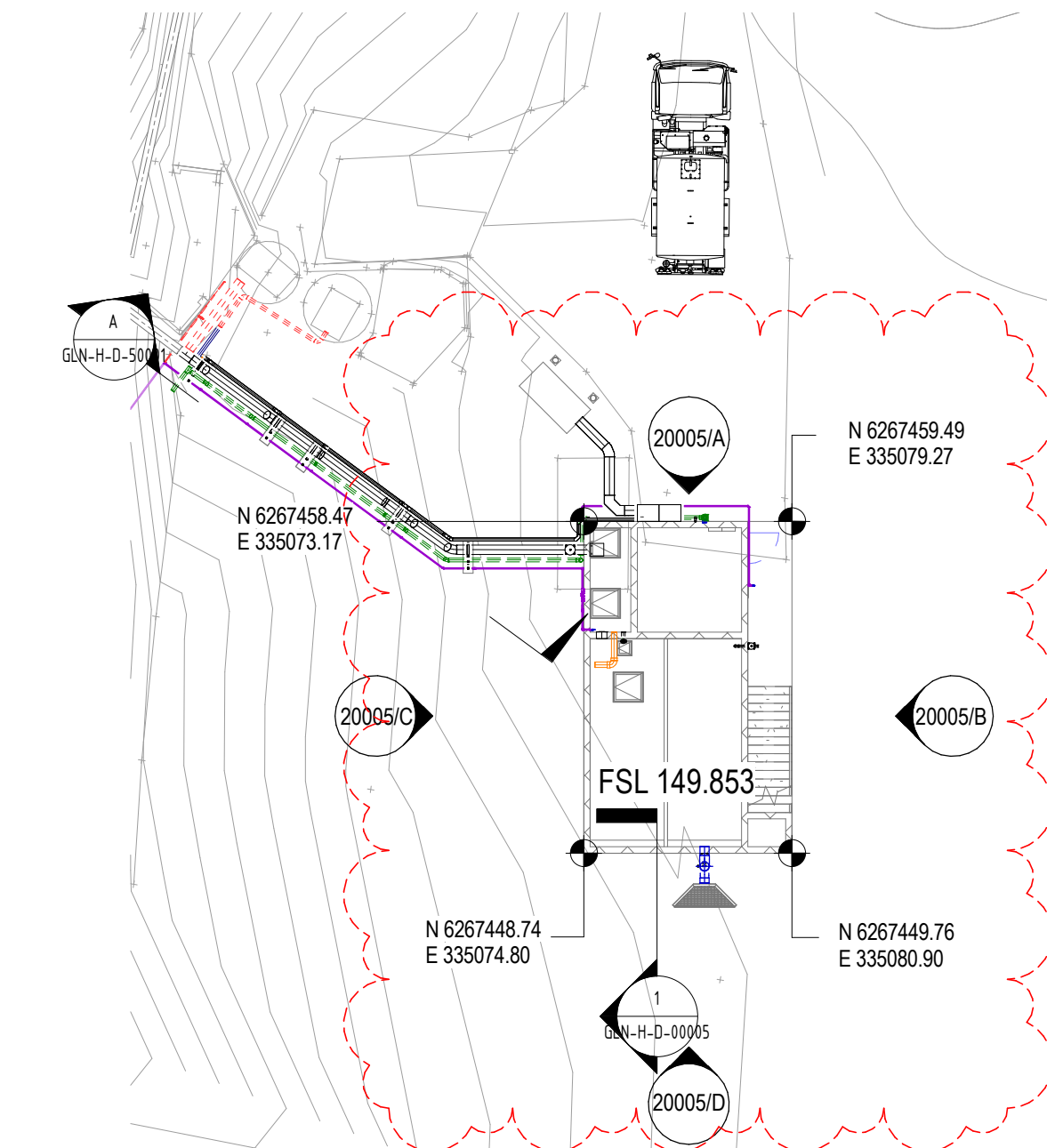
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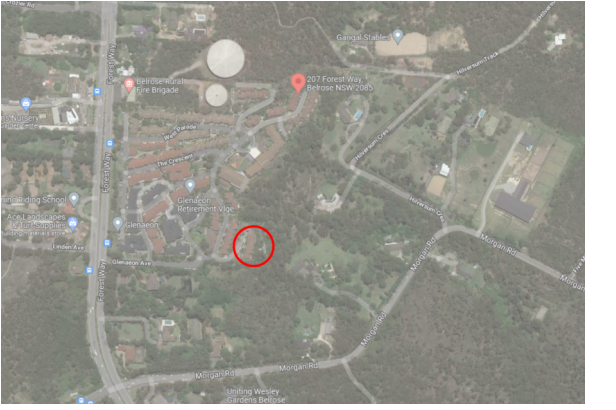


1 OVERALL SITE PLAN
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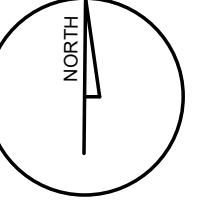


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Key Plan

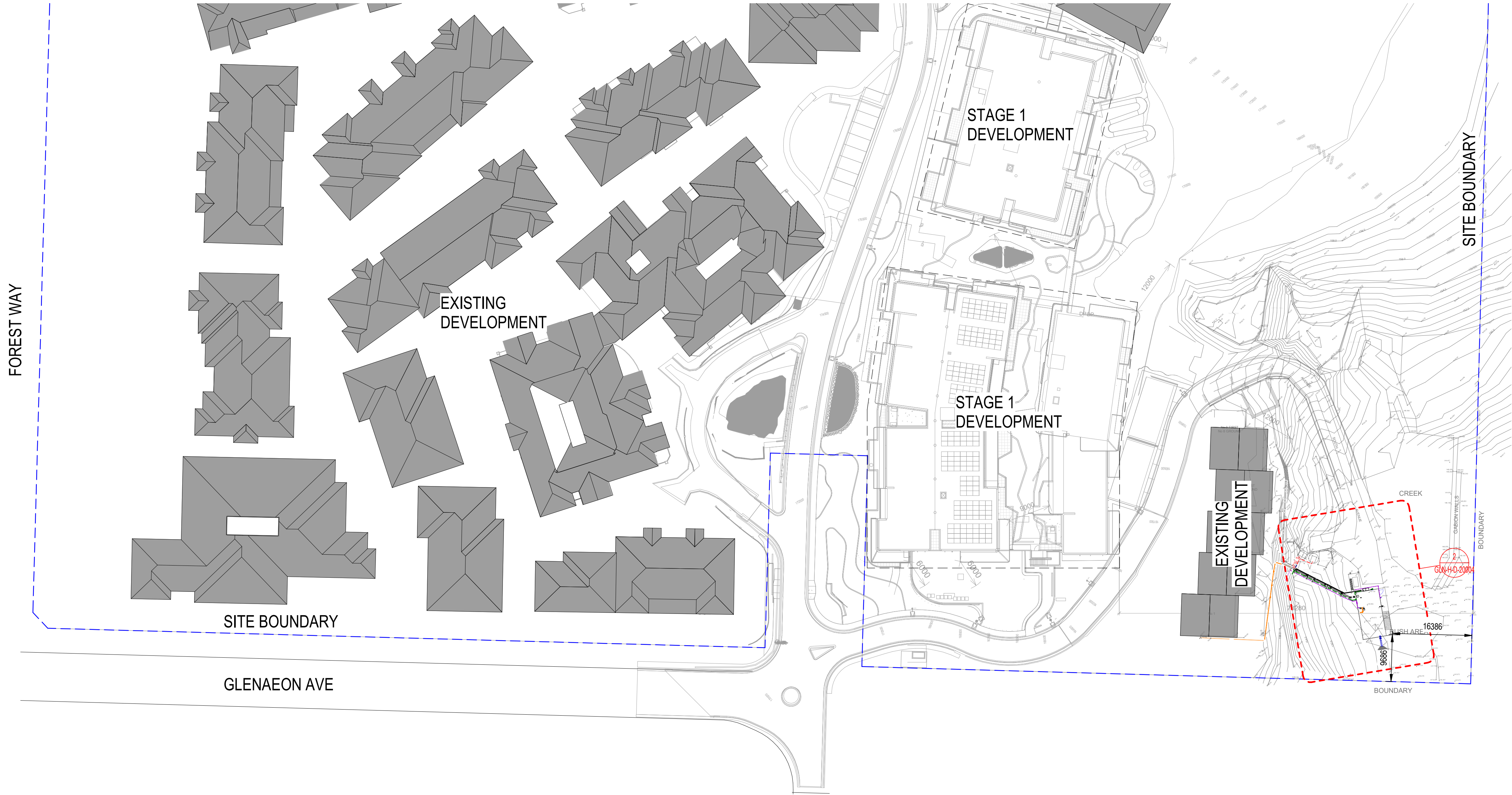


Rev	Revision Description	Date
B	TENDER ADDENDUM	08/11/2022
A	TENDER ADDENDUM	13/05/2022

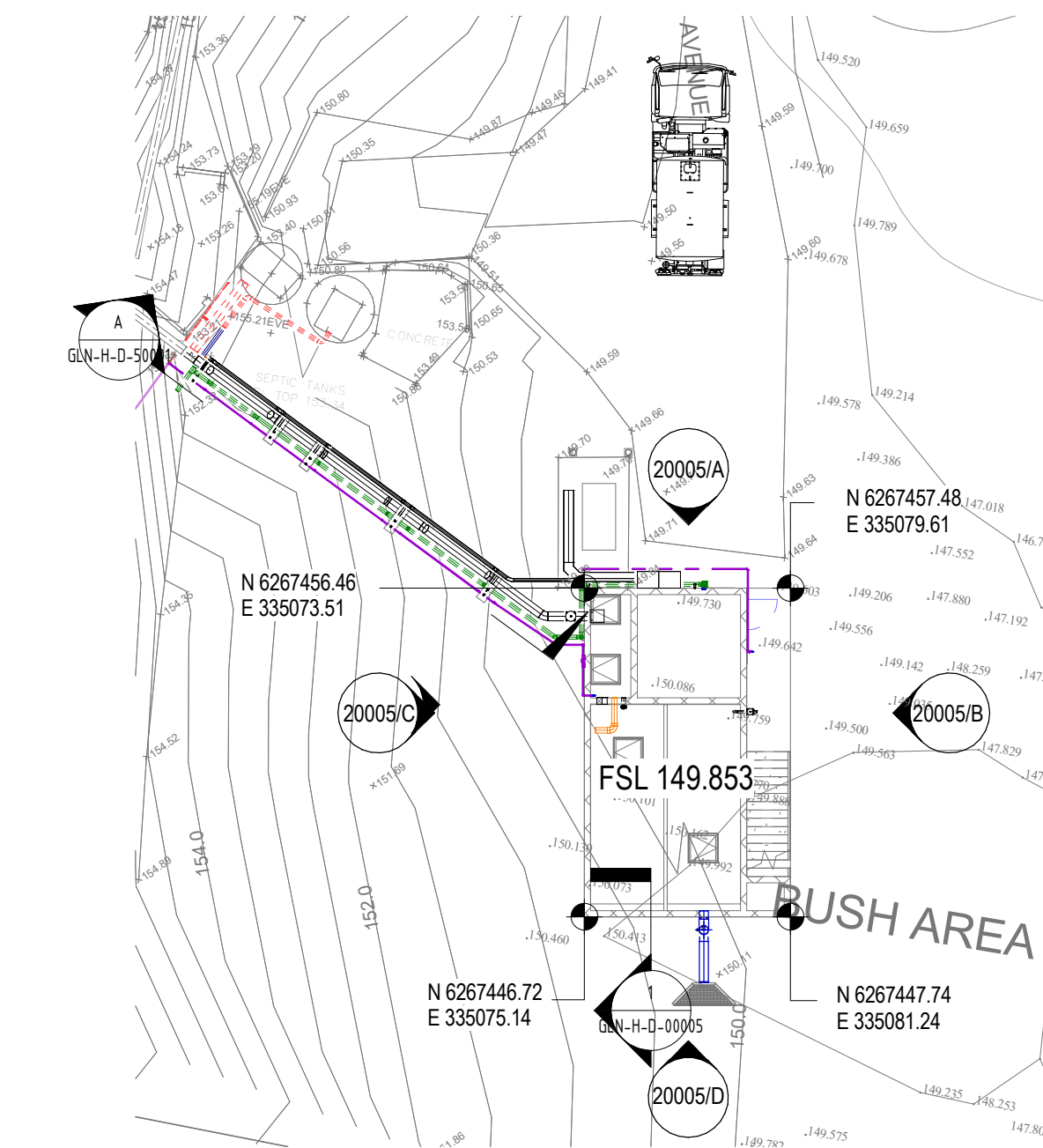
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Client				
LENLELEASE				
Project				
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT				
Title				
OVERALL SITE PLAN				
Scale				
05M As indicated @ A11:100				
Drawn	Checked	Approved		
CC	VP	HW		
Project Number		Drawing Number	Revision	
S210157		GLN-H-D-20004	B	

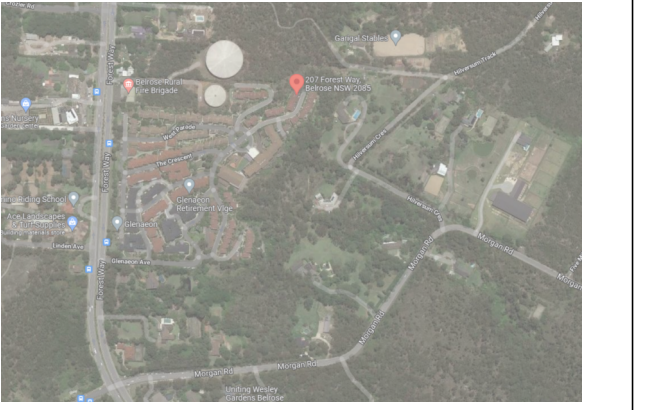


1 OVERALL SITE PLAN
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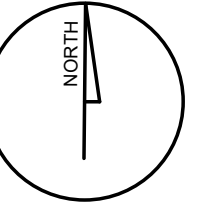


2 SPS CALLOUT / SETOUT
1:200

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Key Plan



Rev	Description	Date
A	TENDER ADDENDUM	13/05/2022

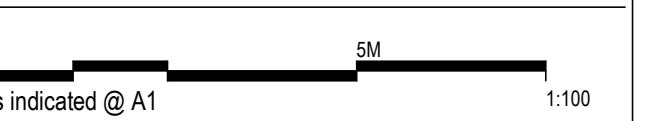
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Client
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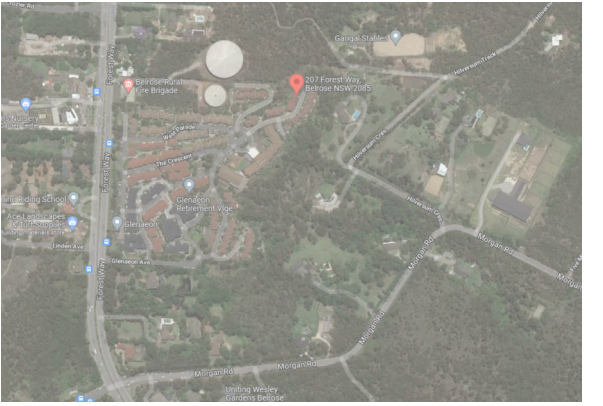
Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
OVERALL SITE PLAN

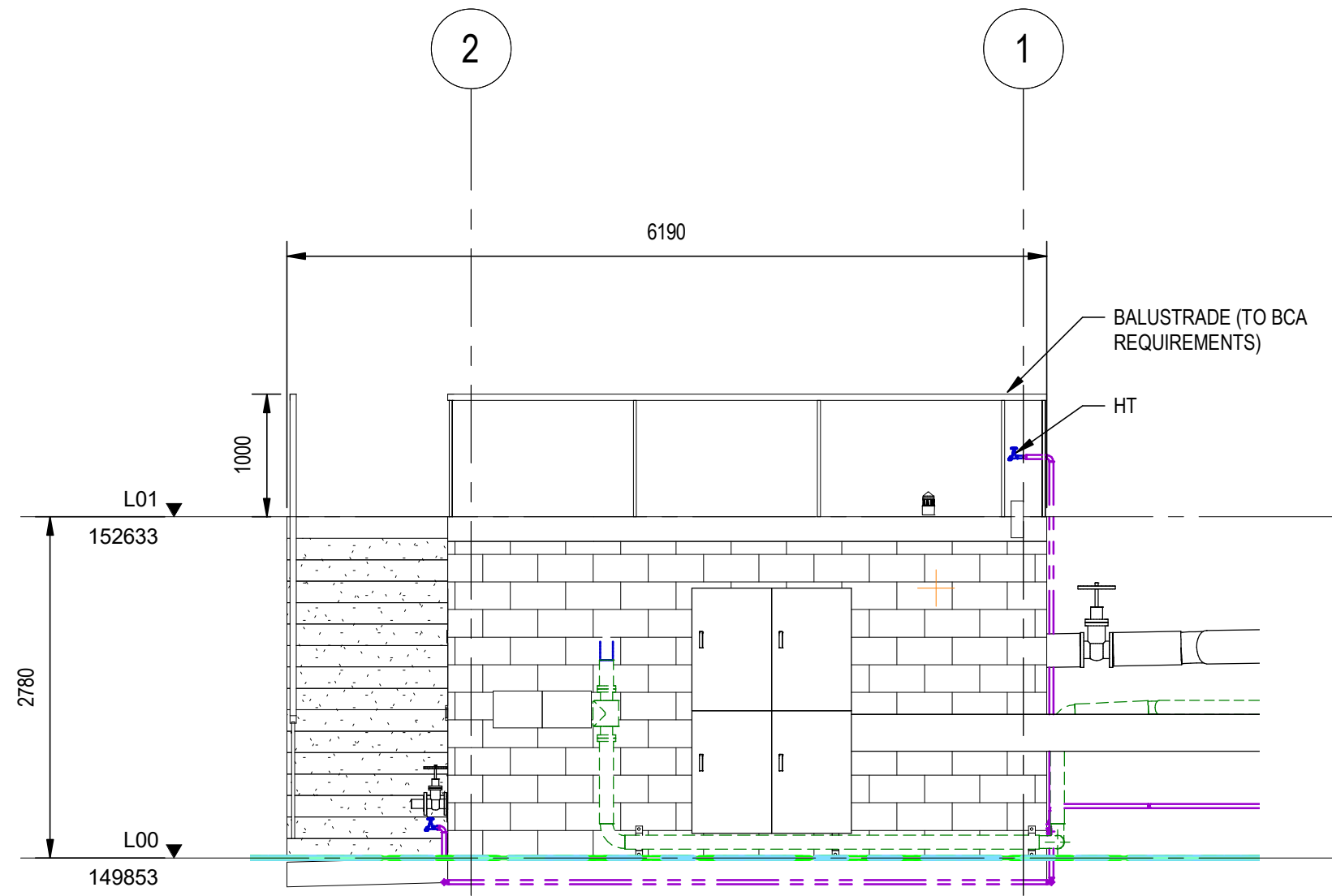


Drawn	Checked	Approved	Revision
CC	VP	HW	
Project Number	Drawing Number	Revision	
S210157	GLN-H-D-20004	A	

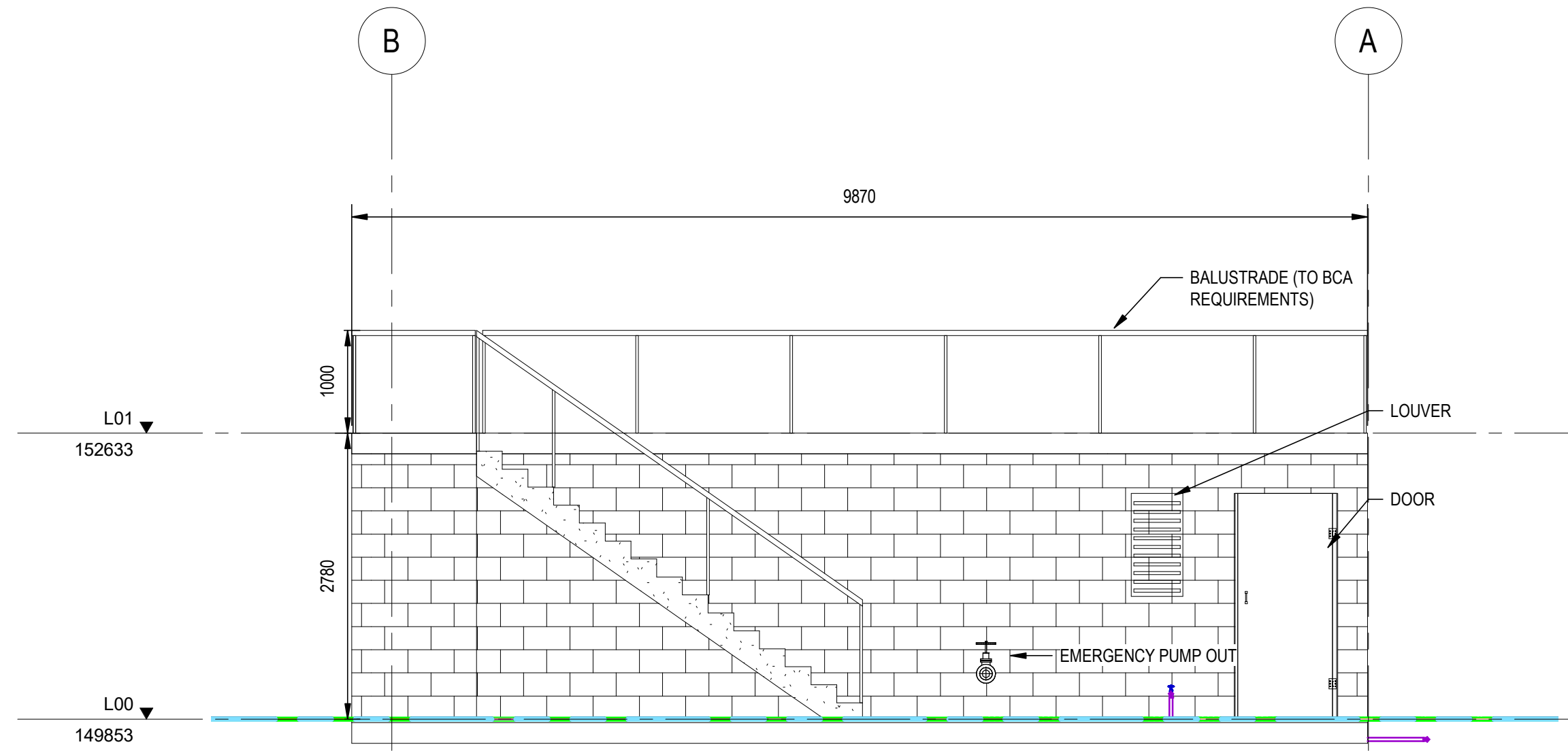
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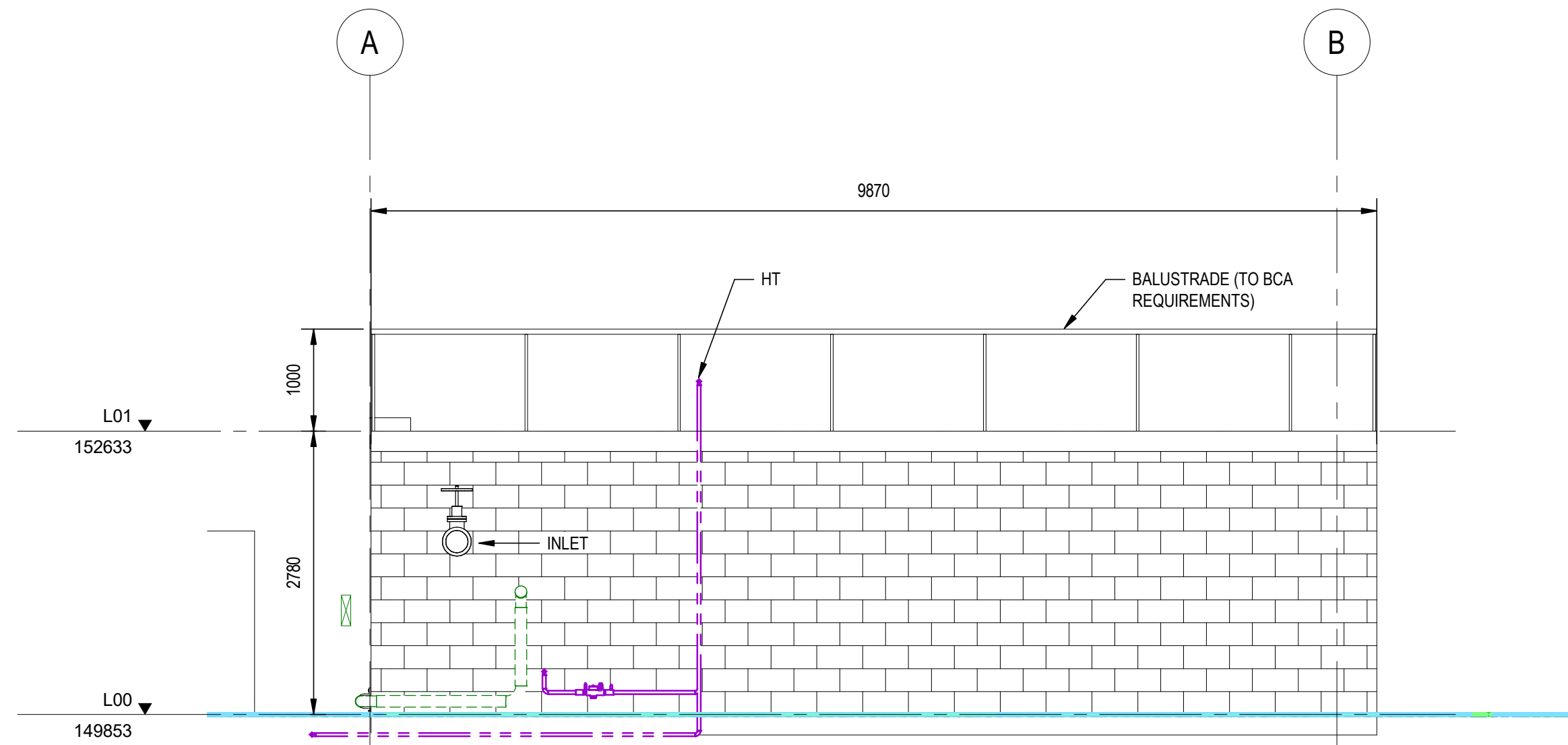
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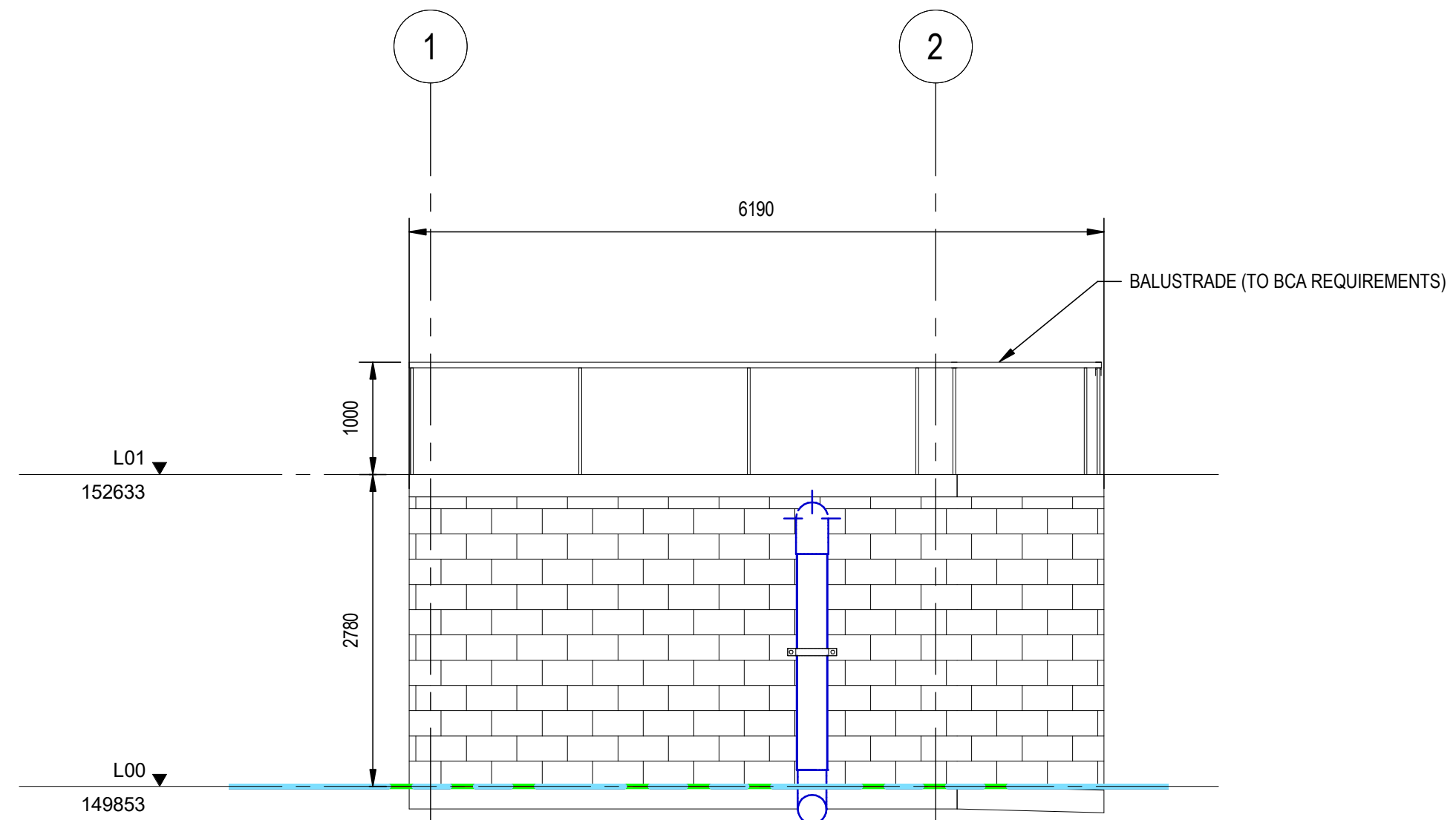
A - North Elevation
1 : 50



B - East Elevation
1 : 50



C - West Elevation
1 : 50



D - South Elevation
1 : 50

Rev	Revision Description	Date
A	TENDER ADDENDUM	13/05/2022

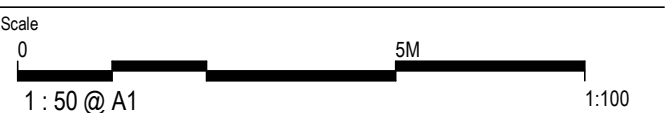
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Client
LENLELEASE

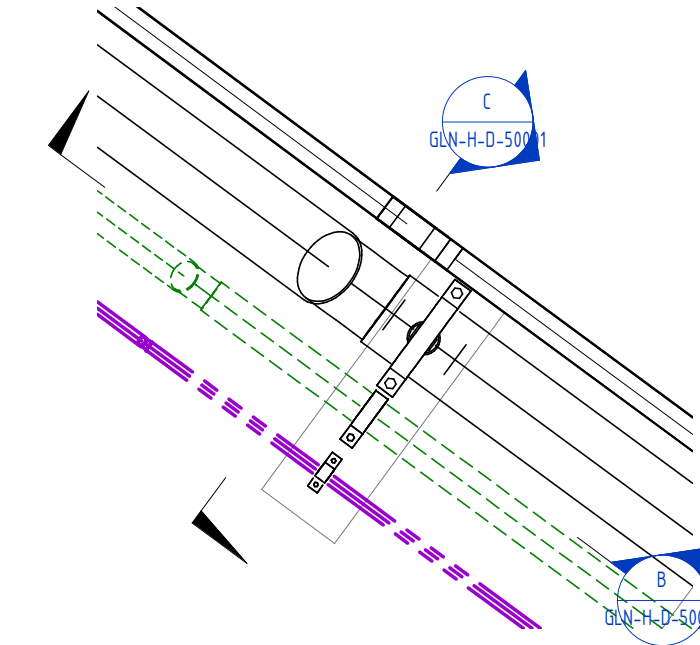
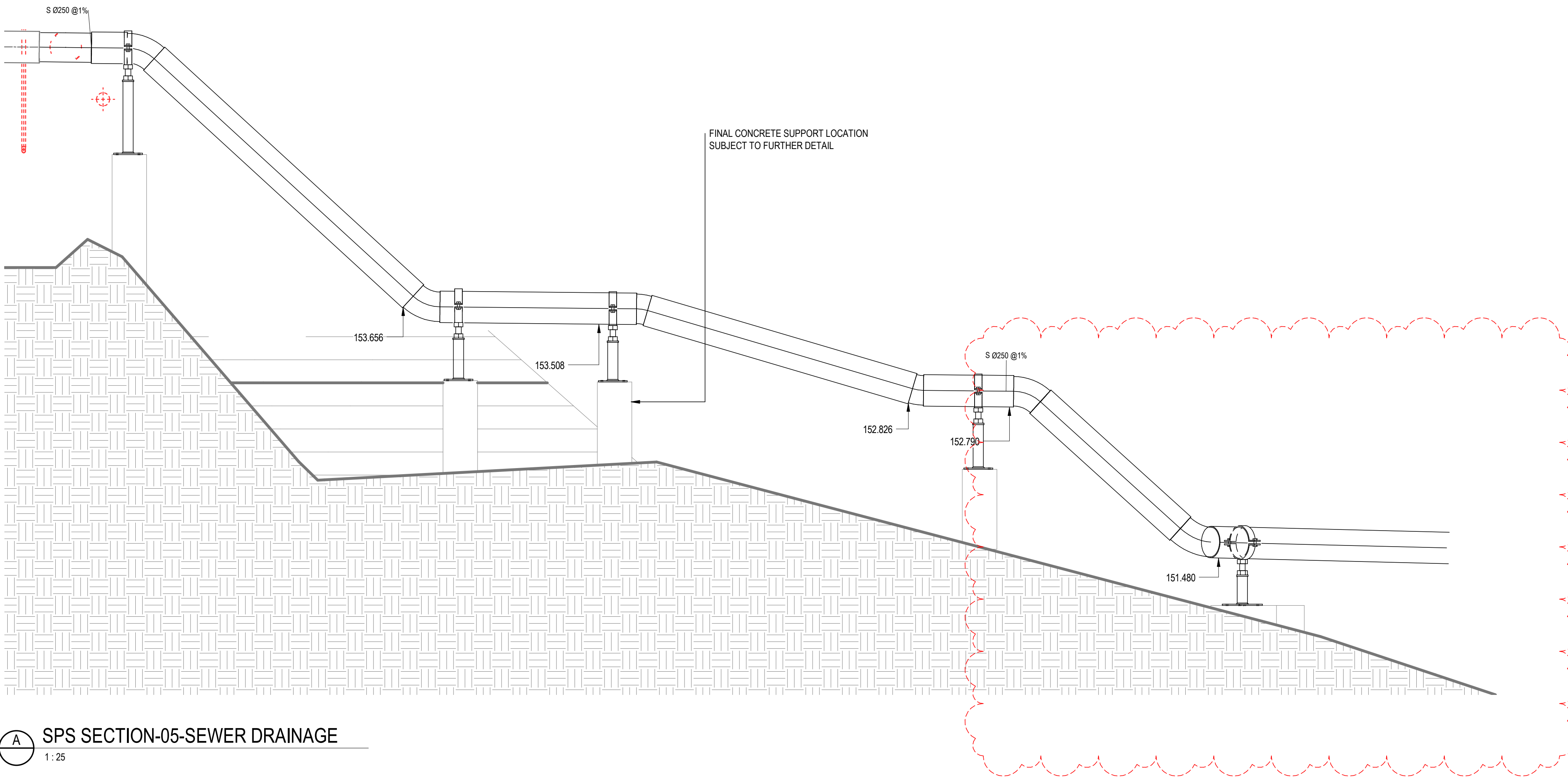
Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
ELEVATIONS

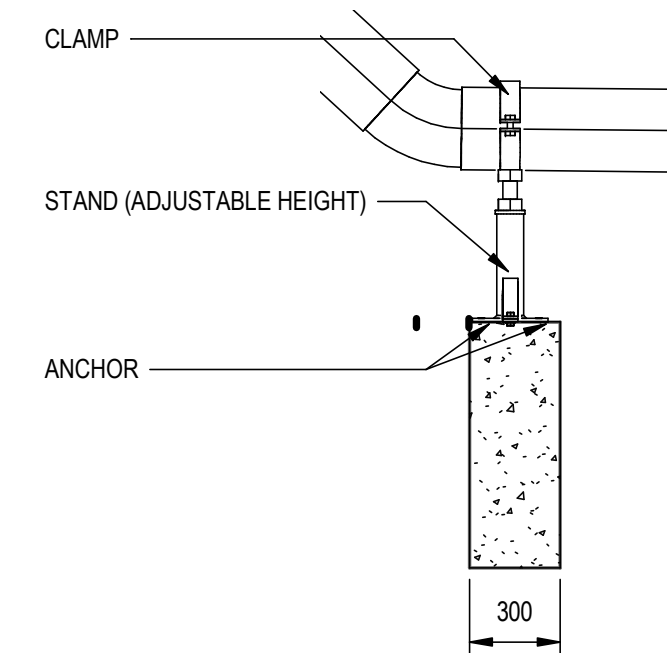


Drawn CC	Checked VP	Approved HW
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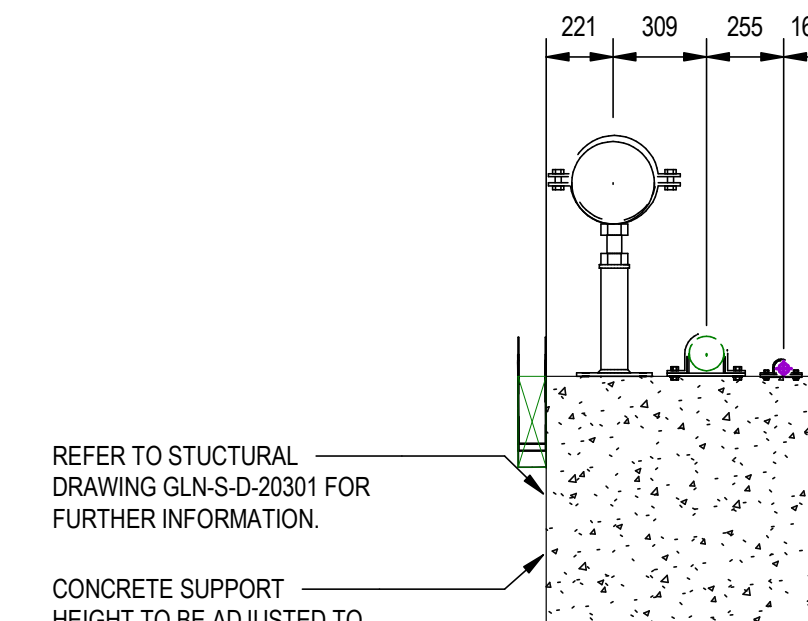
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1 CONCRETE PIPE SUPPORT
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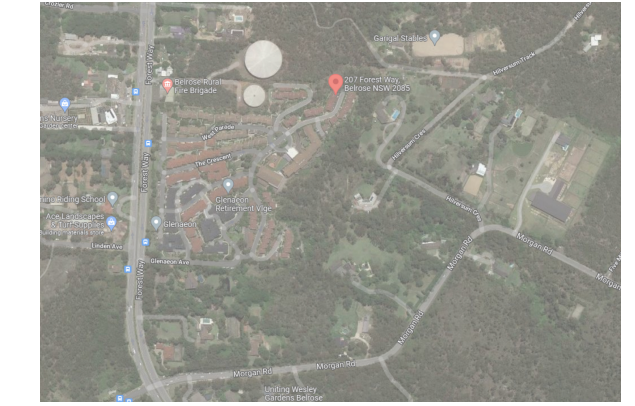


B CONCRETE PIPE SUPPORT-A-SIDE
1:25



C CONCRETE PIPE SUPPORT-A-FRONT
1:25

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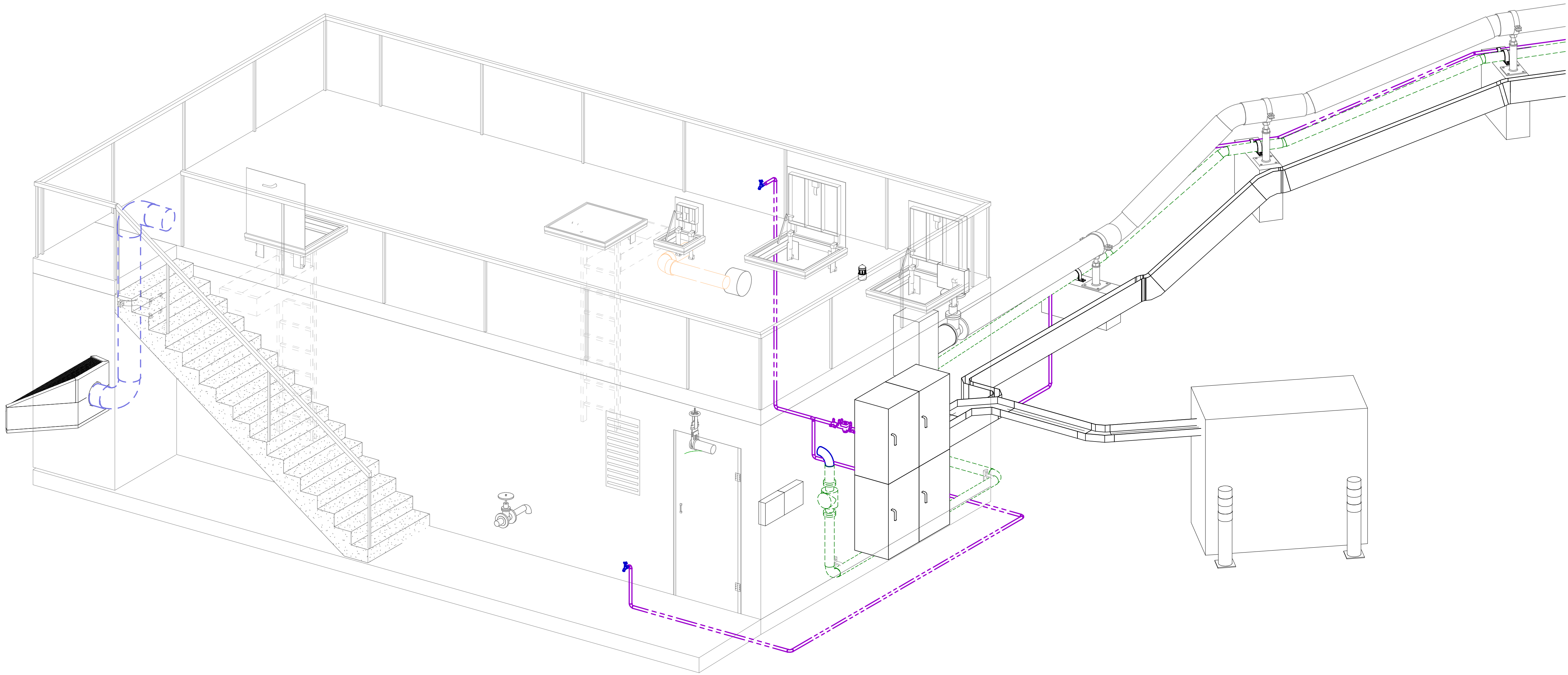
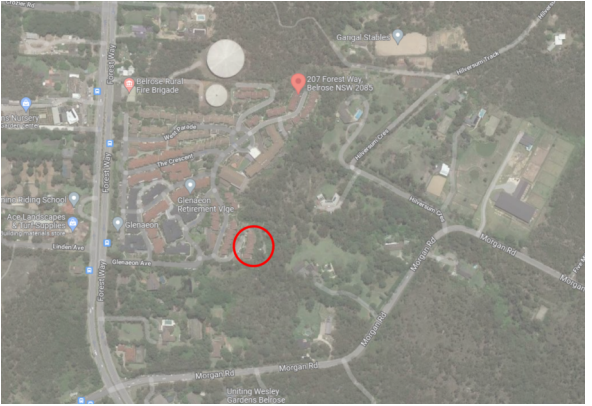
Rev	Revision Description	Date
D	TENDER ADDENDUM	08/11/2022
C	TENDER ADDENDUM	04/04/2022
B	TENDER ISSUE	16/03/2022
A	ISSUED FOR DRAFT TENDER	09/03/2022

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Client	LENLELEASE		
Project	GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT		
Title	SECTIONS 01		
Scale	0 5M 1 : 25 @ A1 1:100		
Drawn	Checked	Approved	Revision
KN	VP	HW	
Project Number	Drawing Number		
S210157		GLN-H-D-50001	D

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PERSPECTIVE VIEW
N.T.S.

Rev	Revision Description	Date
E	TENDER ADDENDUM	08/11/2022
D	TENDER ADDENDUM	13/05/2022
C	TENDER ADDENDUM	04/04/2022
B	TENDER ISSUE	16/03/2022
A	ISSUED FOR DRAFT TENDER	09/03/2022

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Project
**GLENAEON RETIREMENT
LIVING - SPS UPGRADE
PROJECT**

Title
PERSPECTIVE VIEW

Scale
0 5M
@ A1 1:100

Drawn KN	Checked VP	Approved HW	Revision E
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Project Number S210157	Drawing Number GLN-H-D-90000
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STRUCTURAL DRAWING LIST		
DRAWING No.		DRAWING TITLE
Series 00 - General		
GLN-S-D-20001	GENERAL NOTES SHEET 1	
GLN-S-D-20002	GENERAL NOTES SHEET 2	
Series 09 - General Arrangement Plans		
GLN-S-D-20101	TANK PLANS	
GLN-S-D-20201	TANK DETAILS SHEET 1	
GLN-S-D-20301	PIPE SUPPORT DETAILS SHEET 1	

GENERAL

- G01.** THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH:-
- DESIGN CONSULTANTURAL AND OTHER CONSULTANTS' DRAWINGS
 - ALL RELEVANT REFERENCE DRAWINGS AND SPECIFICATIONS
 - OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION.
- ALL DISCREPANCIES IN THESE DRAWINGS SHALL BE REFERRED TO SCP CONSULTING FOR DECISION BEFORE PROCEEDING.
- G02.** DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS OR ELECTRONIC FILES. FIGURED DIMENSIONS ONLY SHALL BE USED, UNLESS NOTED OTHERWISE. ALL REDUCED LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES
- G03.** SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER FROM SETOUT DRAWINGS.
- THE LOCATION OF ALL STRUCTURAL ELEMENTS, INCLUDING FOUNDATIONS, ANCHOR BOLTS, CORE HOLES ETC. SHALL BE SET-OUT BY A LICENSED SURVEYOR WHO SHALL PROVIDE WRITTEN CERTIFICATION OF SETTING-OUT AFTER INSTALLATION AND CONSTRUCTION.
- G04.** DURING CONSTRUCTION STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY SUPPORT SHALL BE PROVIDED BY THE BUILDER IN ORDER TO KEEP THE BUILDING WORKS AND ANY EXCAVATIONS STABLE AT ALL TIMES.
- G05.** ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT AUSTRALIAN STANDARDS AND CURRENT BUILDING CODE OF AUSTRALIA.
- G06.** THE STRUCTURAL COMPONENTS DETAILED ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS:
- LIVE LOADS IN ACCORDANCE WITH AS 1170 - PART 1 AS SPECIFIED ON THE STRUCTURAL PLANS.
 - WIND LOADS IN ACCORDANCE WITH AS 1170 - PART 2, (UNO)
 - IMPORTANCE LEVEL: 2
 - TERRAIN CATEGORY: 2.5 MIN.
 - RETURN PERIOD: 1 / 1000
 - LOCATION: SYDNEY
 - REGION: A
 - BASIC WIND VELOCITY: 46m / SEC.
- G07.** THE RELEVANT PROVISIONS OF AS 1170.4 - 2007 HAVE BEEN APPLIED FOR THE FOLLOWING PARAMETERS:
- RETURN PERIOD: 1 / 1000
 - HAZARD FACTOR: 0.08
 - SUBSOIL CLASS: BE
 - IMPORTANCE LEVEL: 2
 - EARTHQUAKE DESIGN CATEGORY: 2
- G08.** CONSTRUCTION USING ANY STRUCTURAL DRAWINGS SHALL NOT COMMENCE UNTIL A CONSTRUCTION CERTIFICATE IS ISSUED BY THE PRINCIPAL CERTIFYING AUTHORITY AND ONLY IF THAT STRUCTURAL DRAWING IS DESIGNATED 'ISSUED FOR CONSTRUCTION'.
- G09.** THE CONTRACTOR SHALL GIVE AT LEAST FORTY-EIGHT HOURS NOTICE OF ANY INSPECTIONS OF STRUCTURAL WORK THAT ARE REQUIRED TO BE MADE BY SCP CONSULTING. SCP CONSULTING ACCEPTS NO RESPONSIBILITY FOR CONSTRUCTION WORK NOT INSPECTED AND APPROVED BY SCP CONSULTING DURING CONSTRUCTION.
- G10.** THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE BUILDER. IF ANY STRUCTURAL ELEMENT DOCUMENTED ON THE STRUCTURAL DRAWING PRESENTS DIFFICULTY IN TERMS OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO SCP CONSULTING FOR RESOLUTION BEFORE PROCEEDING. THE DETERMINATION OF A SAFE WORK METHOD IS THE RESPONSIBILITY OF THE BUILDER.
- G11.** NO CHANGES IN ANY STRUCTURAL ELEMENT DOCUMENTED IN THE STRUCTURAL DRAWINGS SHALL BE MADE WITHOUT REFERENCE TO SCP CONSULTING.
- G12.** PROPRIETARY ITEMS SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS.
- G13.** THE BUILDER SHALL ARRANGE SEPARATE CERTIFICATION OF ANY DESIGN AND CONSTRUCT ITEMS BY AN NPER REGISTERED STRUCTURAL ENGINEER.
- G14.** ALL DESIGN CONSULTANTURAL FITMENTS (GLAZING, PARTITIONS, CEILINGS) SHOULD ALLOW FOR SHORT TERM AND LONG TERM MOVEMENT OF STRUCTURAL ELEMENTS. THE BUILDER SHOULD CONSULT SCP CONSULTING FOR THE ALLOWANCE TO BE MADE.
- G15.** ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED FOR EARTHQUAKE FORCES IN ACCORDANCE WITH AS1170.4. THE DESIGN REQUIREMENTS OF AS1170.4 ARE BASED ON A PROBABILISTIC EARTHQUAKE EVENT. THE STRUCTURE HAS BEEN DESIGNED AND DETAILED TO RESIST THE PROBABILISTIC EARTHQUAKE EVENT AND NOT COLLAPSE, HOWEVER SOME DAMAGE TO THE STRUCTURE WILL GENERALLY OCCUR. REPAIR OR DEMOLITION OF THE STRUCTURE MAY BE REQUIRED.
- G16.** THE BUILDER AND ASSOCIATED SUB CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND TEMPORARY WORKS (INCLUDING COST, DESIGN IMPLEMENTATION AND CERTIFICATION BY A NPER REGISTERED TEMPORARY WORKS ENGINEER).
- G17.** THE DESIGN LIFE OF THE WORKS SHALL BE 50 YEARS.
- G18.** PRIOR TO COMMENCEMENT OF SITE WORKS, THE BUILDER SHALL LOCATE AND CONFIRM ALL EXISTING SERVICES AND SEEK DIRECTION FROM SCP CONSULTING SHOULD ANY EXISTING SERVICES OR ASSETS AFFECT THE DOCUMENTED STRUCTURAL ELEMENTS.

GROUNDWORKS/SITE PREPARATION

E01. A GEOTECHNICAL INVESTIGATION OF THE SITE HAS BEEN MADE AND A COPY OF THE REPORT HAS BEEN MADE AVAILABLE FOR INFORMATION ONLY. THE GEOTECHNICAL INFORMATION GIVEN IN THIS REPORT, OR SHOWN ON THE STRUCTURAL DRAWINGS, OR BOTH, IS INFORMATION ON THE NATURE OF THE GROUND AT EACH TESTED PART. IT IS NOT A COMPLETE DESCRIPTION OF CONDITIONS EXISTING AT OR BELOW GROUND LEVEL.

E02. TOLERANCES

SURFACES: FINISH GROUNDWORKS TO REASONABLY SMOOTH AND UNIFORM SURFACES. SUBGRADES: THE FOLLOWING TOLERANCES APPLY TO FINISHED SUBGRADE LEVELS UNLESS OVERRIDDEN BY SPECIFIC REQUIREMENTS ELSEWHERE ON THE DRAWINGS.

ITEM	LEVEL TOLERANCE ABSOLUTE	(MAXIMUM) RELATIVE
FILL SUBGRADE	+ 0 - 10	20mm
CUT SUBGRADE	+ 0 - 20	20mm

ABSOLUTE LEVEL TOLERANCE: MAXIMUM DEVIATION FROM DESIGN LEVEL. RELATIVE LEVEL TOLERANCE: MAXIMUM DEVIATION FROM 3m STRAIGHT EDGE LAID ANYWHERE ON EACH PLANE SURFACE.

E03. TESTING FOR COMPLIANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH AS1289 AS SET OUT BELOW. LEVEL 2 CERTIFICATION IN ACCORDANCE WITH AS 3798, SHALL APPLY. FIELD DRY DENSITY: TO ONE OF THE METHODS OF AS 1289 CLAUSES 5.1.1, 5.3.5 OR 5.8.1. CALIBRATE THE SURFACE MOISTURE - DENSITY GAUGE PRIOR TO USE ON SITE.

TESTING INDEX: TO AS 1289 CLAUSE 5.6.1
STANDARD MAXIMUM DRY DENSITY: TO AS 1289 CLAUSE 5.1.1
MODIFIED MAXIMUM DRY DENSITY: TO AS 1289 CLAUSE 5.2.1
FILLING SAMPLE TO AS 1141.2 AND AS 1178 AND TEST TO AS 1141 OR AS 1289, AS APPROPRIATE, FOR COMPLIANCE WITH THE CRITERIA STATED ON THE STRUCTURAL DRAWINGS. CALIFORNIA BEARING RATIO: SAMPLE AND TEST TO AS 1289 CLAUSES 6.6.1-6.1.3 AS APPROPRIATE.

E04. KEEP GROUNDWORKS FREE OF SURFACE WATER. PLACE WALL FILLING, PAVING, STRUCTURES, SERVICES, AND THE LIKE ON GROUND FROM WHICH SURFACE WATER HAS BEEN REMOVED. PROTECT FRESH WORK FROM WATER DAMAGE.

E05. REMOVE THE FOLLOWING FROM THE SITE: EXCAVATED MATERIAL NOT RE-USABLE AS TOPSOIL, FILLING, MULCH, OR THE LIKE AND DEBRIS RESULTING FROM SITE CLEARING.

E06. EXCAVATE AS REQUIRED OR AS SHOWN ON THE STRUCTURAL DRAWINGS, INCLUDING BUT NOT NECESSARY LIMITED TO THE FOLLOWING:

SITE SURFACE:

EXCAVATE OVER THE SITE TO GIVE CORRECT LEVELS AND PROFILES AS THE BASIS FOR CONSTRUCTION, PAVING, FILLING, LANDSCAPING AND THE LIKE. MAKE ALLOWANCE FOR COMPACTION OR SETTLEMENT.

FOOTINGS:

EXCAVATE FOR FOOTINGS, PITS, WELLS, SHAFTS AND THE LIKE, TO THE REQUIRED SIZES AND DEPTHS.

PROOF ROLLING:

PROOF ROLLING TO BE IN ACCORDANCE WITH INSTRUCTIONS FROM THE GEOTECHNICAL ENGINEER ENGAGED SPECIFICALLY FOR THIS PURPOSE. REPLACE UNSUITABLE MATERIAL WITH APPROVED FILLING COMPACTED IN ACCORDANCE WITH INSTRUCTIONS FROM THE GEOTECHNICAL ENGINEER.

E07. PLACING FILLING

EXTENT:

PLACE AND COMPACT FILLING APPROVED BY THE GEOTECHNICAL ENGINEER TO THE DIMENSIONS, LEVELS, GRADES, AND CROSS SECTIONS AS SHOWN ON THE STRUCTURAL DRAWINGS, SO THAT THE SURFACE IS ALWAYS STAY DRAINING.

LAYERS:

PLACE FILLING APPROVED BY THE GEOTECHNICAL ENGINEER IN LOOSE LAYERS NOT EXCEEDING 200mm OR THE SPECIFIED MAXIMUM LAYER THICKNESS, AND COMPACT EACH LAYER AS SPECIFIED IN CLAUSE E9 IN LOOSE TO THE REQUIRED DENSITY OR IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS REQUIREMENTS.

PLACING AGAINST CONCRETE:

DO NOT PLACE FILLING AGAINST CONCRETE UNTIL THE CONCRETE HAS BEEN IN PLACE FOR MINIMUM OF FOURTEEN DAYS.

PLACING AT STRUCTURES:

PLACE AND COMPACT FILLING IN LAYERS SIMULTANEOUSLY ON BOTH SIDES OF STRUCTURES, CULVERTS AND PIPELINES TO AVOID DIFFERENTIAL LOADING.

MATERIAL:

INORGANIC NON-PERISHABLE MATERIAL, OF THE TYPE SPECIFIED ON THE STRUCTURAL DRAWINGS. SUBMIT DETAILS OF PROPOSED FILLING IF NO MATERIAL SPECIFIED TO SCP CONSULTING.

E08. COMPACTION LEVELS UNLESS SPECIFIED ELSEWHERE ON THE DRAWINGS, OR BY THE GEOTECHNICAL ENGINEER, SHALL BE EITHER 100% STANDARD COMPACTION OR 98% MODIFIED COMPACTION.

E09. SUB-BASE TO CONCRETE SLABS SHALL BE MATERIAL COMPLYING WITH DGS40 TO RMS SPECIFICATIONS. SUB-BASE SHALL BE COMPACTED TO 100% STANDARD COMPACTION, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

E10. COMPACTION TEST RESULTS SHALL BE SUBMITTED TO SCP CONSULTING FOR REVIEW.

FOOTINGS

F01. A GEOTECHNICAL INVESTIGATION OF THE SITE HAS BEEN MADE AND A COPY OF THE REPORT HAS BEEN MADE AVAILABLE FOR INFORMATION ONLY. THE GEOTECHNICAL INFORMATION GIVEN IN THIS REPORT, OR SHOWN ON THE DRAWINGS, OR BOTH, IS INFORMATION ON THE NATURE OF THE GROUND AT EACH TESTED PART. IT IS NOT A COMPLETE DESCRIPTION OF CONDITIONS EXISTING AT OR BELOW GROUND LEVEL.

F02. ALL EXCAVATIONS AND FOUNDING MATERIAL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER AS HAVING THIS BEARING CAPACITY BEFORE PLACING MEMBRANES OR REINFORCEMENT OR CONCRETE. A COPY OF THE REPORT ON THE FOUNDING MATERIAL SHALL BE SUPPLIED TO SCP CONSULTING. SPOON TEST AS REQUIRED.

F03. FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

F04. FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION. FOUNDATION MATERIAL SHALL NOT BE PERMITTED TO SOFTEN OR DRY OUT. IF CONCRETE IS NOT PLACED IMMEDIATELY AFTER EXCAVATION OF FOOTING, PROVIDE A 50mm BLINDING LAYER OF WEAK (15MPa) CONCRETE TO THE BASE OF EXCAVATION.

F05. EXCAVATE FOR FOUNDATIONS TO THE REQUIRED SIZES AND DEPTH. FOOTING FOUNDING LEVELS ARE PROVISIONAL SUBJECT TO ACTUAL SITE CONDITIONS.

F06. ANY RESIDENTIAL SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR REACTIVITY CLASS *** TO AS 2870.

F07. THE BUILDER SHALL ENSURE THE STABILITY OF ADJACENT BUILDINGS AND SERVICES DURING EXCAVATION FOR FOOTINGS. IF IN DOUBT AS TO REQUIREMENTS CONSULT GEOTECHNICAL ENGINEER AND SCP CONSULTING.

F08. FOOTINGS NEAR BOUNDARIES SHALL HAVE THE BASE OF THE FOOTING LEVEL HIGHER THAN THE EXISTING ADJACENT FOOTING.

RETAINING WALLS

RW1. BACKFILLING BEHIND RETAINING WALLS SHALL BE WELL-GRADED NON-COHESIVE GRANULAR MATERIAL APPROVED BY SCP CONSULTING. COMPACT IN 150MM LAYERS WITH A 2 TONNE STATIC ROLLER. IF LARGER ROLLERS ARE USED, PROP RETAINING WALL.

RW2. UNLESS NOTED OTHERWISE ON DRAWINGS, ALL RETAINING WALLS SHALL BE PROVIDED WITH A FREE DRAINING NON-COHESIVE COARSE GRANULAR DRAINAGE LAYER MINIMUM 300MM WIDE AT THE BACK OF THE WALL WITH AN AGRICULTURAL DRAINAGE PIPE AT THE BASE 50mm DIA. WEEP HOLES SHALL BE PROVIDED AT 1.0 METRE CENTRES MAXIMUM.

RW3. WHERE RETAINING WALLS ARE SUPPORTED BY FLOORS BUILT AGAINST THEM OR INTO THEM, DO NOT BACKFILL RETAINING WALLS UNTIL FLOOR CONSTRUCTION AND CONNECTIONS TO RETAINING WALL AT TOP AND BOTTOM IS IN PLACE, UNLESS THE RETAINING WALL IS TEMPORARILY PROPPED.

RW4. ALL WALLS TO HAVE EXPANSION JOINTS AT 6m MAX CTS OR AS PER SCP CONSULTING DETAILS.

FORMWORK

FW1. THE DESIGN CERTIFICATION & ERECTION INSPECTION OF AND PERFORMANCE OF THE FORMWORK AND FALSEWORK IS THE RESPONSIBILITY OF THE FORMWORK SUB-CONTRACTOR. NOT OF SCP CONSULTING. FORMWORK SHALL BE CERTIFIED BY A NPER REGISTERED STRUCTURAL ENGINEER EXPERIENCED IN FORMWORK DESIGN IN ACCORDANCE WITH STATE REGULATIONS AND STATE SAFETY CODE OF PRACTICE.

FW2. THE FORMWORK SHALL NOT BE DESIGNED TO RELY ON RESTRAINT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM SCP CONSULTING. POST TENSIONING REACTIONS TO BE CONSIDERED AS REQUIRED.

FW3. STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 (WHERE MORE STRINGENT) UNLESS OTHERWISE APPROVED BY SCP CONSULTING.

FW4. DURING CONSTRUCTION, SUPPORT PROPPING WILL BE REQUIRED 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 ON THE STRUCTURAL DRAWINGS.

FW5. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL ALL PROPPING IS REMOVED AND THE SLAB HAS ABSORBED ITS DEAD LOAD. DEFLECTION, PROP REMOVAL, SHALL BE PROGRAMMED TO AVOID DISTRESS TO PREVIOUSLY CAST FLOORS. RE-SHORING OR BACK-PROPPING SHALL BE SUBMITTED BY THE FORMWORK CONTRACTOR FOR APPROVAL OF SCP CONSULTING.

FW6. DIMENSIONAL TOLERANCES SHALL COMPLY WITH AS 3610 CLAUSE 3.4 OR AS 3600 CLAUSE 17.5. FOR THE APPROPRIATE FINISH CLASS. FINISH CLASS TO DESIGN CONSULTANT'S SPECIFICATIONS. IN ANY CASE MAXIMUM DEVIATION FROM CORRECT POSITION SHALL BE 10mm FOR CLASS 1, 15mm FOR CLASS 2, 20mm FOR CLASS 3, 25mm FOR CLASS 4.

FW7. CONCRETE FORMED SURFACES SHALL HAVE FOLLOWING FORMWORK CLASS IN ACCORDANCE WITH AS 3610, UNLESS SPECIFIED DIFFERENTLY ON THE DESIGN CONSULTANTURAL DRAWINGS.

CONCRETE ELEMENT OR SURFACE	FORMWORK CLASS TO AS 3610
NORMAL DESIGN CONSULTANTURAL & CIVIL WORKS AND SURFACES NOT OTHERWISE SPECIFIED	2 TO 3 (T.B.C. BY DESIGN CONSULTANT)
SURFACES TO BE RENDERED OR HIDDEN BY OTHER FINISHES	4
SURFACES PERMANENTLY CONCEALED	4

FW8. BEFORE PLACING REINFORCEMENT, APPLY A RELEASE AGENT COMPATIBLE WITH THE REQUIRED SURFACE FINISH TO FACE OF FORMWORK.

FW9. CHAMFER AT RE-ENTRANT ANGLES AND FILLET AT CORNERS FACE OF BEVEL 25mm UNO ON DESIGN CONSULTANTURAL DRAWINGS.

FW10. BEFORE PLACING CONCRETE, REMOVE WATER, DUST, DEBRIS FROM THE FORMWORK.

FW11. FILL ALL THE HOLES LEFT BY FORM TIE BOLTS WITH MORTAR MATCHING THE SURFACE COLOUR OF THE FINISHED SURFACE. WALL PART OF WATER RETAINING STRUCTURES SHALL HAVE TIE BOLT HOLES FILLED WITH A WATERPROOF GROUT.

FW12. PROVIDE CHAMFERS AND DRIP GROOVES AS CLAUSE C18.

FW13. IF METAL DECK FORMWORK IS USED, ALL PROPPING AND BEARING DETAILS SHALL BE DETERMINED BY THE FORMWORK SUB-CONTRACTORS ENGINEERS AND SHALL BE ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. THERE SHALL BE NO PERMANENT MARKS ON THE METAL DECK SOFFIT, DUE TO PROPPING SYSTEM. THE EXTENT OF METAL DECK FORMWORK SHALL BE APPROVED BY THE DESIGN CONSULTANT WITH REGARD TO REQUIRED SOFFIT FINISH IN EXPOSED AREAS.

FW14. IN MULTI STOREY CONSTRUCTION, PROPPING TO EXTEND AT LEAST 3 LEVELS (OR STOREYS) BELOW THE FLOOR BEING CAST. PROP REMOVAL IS TO BE PROGRAMMED TO AVOID DISTRESS TO PREVIOUSLY CAST FLOORS. REFER TO SCP CONSULTING FOR SPECIFIC PROPPING REQUIREMENTS.

FW15. VOID FORMERS TO BE CERTIFIED TO SUPPORT WET CONCRETE LOAD AND PLACEMENT / COMPACTION LOAD AND DEFLECT < SPAN / 1000 FOR BEAMS AND SLABS. COLLAPSE AND LOSS OF SUPPORT TO HARDENED CONCRETE TO OCCUR WITHIN 48 HOURS AT COMPLETION OF CONCRETE BEING POURED OVER.

FW16. PERMANENT LOSS FORMWORK SHALL BE CHLORIDE FREE AND NOT IMPAIR STRUCTURAL PERFORMANCE.

STRUCTURAL STEELWORK

S01. GENERAL

REFER AS5131 FOR ALL DEFINITIONS, RESPONSIBILITIES AND PROCUREMENT REQUIREMENTS. ALL STEEL PURCHASED TO ACRS AND ISO14001 COMPLIANCE.

S02. CONSTRUCTION CATEGORY

IN ACCORDANCE WITH THE REQUIREMENTS OF ASINZS 5131 THE CONSTRUCTION CATEGORIES FOR THIS PROJECT ARE DEFINED IN THE TABLE BELOW:

ELEMENT	IMPORTANCE LEVEL	SERVICE CATEGORY	FABRICATION CATEGORY	CONSTRUCTION CATEGORY
FILLET WELD GP/SP	IL3	SC1	FC1	CC3

S03. TREATMENT GRADES

UNLESS NOTED OTHERWISE IN THE PROJECT DRAWINGS, FOR THE ELEMENTS ON THIS PROJECT, THE TREATMENT GRADES ACCORDING TO ASINZS 5131 SHALL BE P2 FOR ALL PAINTED STRUCTURAL STEELWORK UNO. ALL EXPOSED STEELWORK TO BE P3.

S04. COATING QUALITY LEVEL

THE COATING QUALITY LEVEL ASSESSED ACCORDING TO ASINZS 5131 SHALL BE AS GIVEN IN THE TABLE BELOW:

ITEM	COATING QUALITY LEVEL
INTERNAL STEELWORK	PC1
EXTERNAL STEELWORK (NON COASTAL)	PC2
EXTERNAL STEELWORK (COASTAL)	PC2

EXTERNAL STEEL MAY BE HOT DIPPED GALVANISED AT 600 g/m² (MAX) TO ASINZS 4680. ALL BOLTS TO BE HOT DIPPED GALVANISED TO ASINZS 1214 AT 330 g/m² REPAIR OF ALL GALVANISED TO ASINZS 4680.

S05. WORKMANSHIP AND QUALITY

ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH ASINZS 5131. ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY COMPETENT PERSONNEL. REQUIREMENTS AND EXAMPLES OF QUALIFICATIONS FOR COMPETENT PERSONNEL ARE CONTAINED IN ASINZS 5131. STEELWORK SHALL BE FABRICATED BY FABRICATORS CERTIFIED UNDER THE ASI NATIONAL STRUCTURAL STEELWORK COMPLIANCE SCHEME (NSSCS).

S06. TOLERANCES

FABRICATION TOLERANCES SHALL CONFORM TO THE REQUIREMENTS OF ASINZS 5131. THE TOLERANCE CLASS FOR FUNCTIONAL TOLERANCES SHALL BE CLASS 1 UNO.

S07. STEEL MATERIAL GRADES

ALL STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING TABLE UNO:

COMPONENT	TO CONFORM WITH AUSTRALIAN STANDARDS	GRADE
HOT ROLLED STEEL SECTIONS	ASINZS 3679.1; TS 102	300/350
PLATE	ASINZS 3678; TS 102	250/300/350/400/450
FLATS	ASINZS 1594; TS 102	250/300/350/400/450
HOLLOW SECTIONS: CIRCULAR (CHS) SQUARE (SHS) RECTANGULAR (RHS)	ASINZS 1163; TS 102	C350L0 & C250L0 C350L0 & C450L0 C350L0 & C450L0
WELDED BEAMS & COLUMNS	ASINZS 3679.2; TS 102	300/400/450
SHEAR STUDS (COMPOSITE SLAB TO STEEL)	ASINZS 1554.2 AS 1443	380
QUENCH & TEMPERED PLATE	AS 3597	690
PURLINS & GIRTS	AS 3597	450
RODS / SQUARES	AS 3679.1; TS102	250/300

MEMBER SIZES SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. NO SUBSTITUTION IS PERMITTED WITHOUT APPROVAL IN WRITING FROM SCP CONSULTING. DOCUMENTATION SUPPLIED WITH MATERIALS AND COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF ASINZS 5131.

S08. LAMELLAR TEARING

JOINT DETAILS WHICH ARE SUSCEPTIBLE TO LAMELLAR TEARING (LT) ARE INDICATED ON THE PROJECT DRAWINGS AS LT SUSCEPTIBLE. WITH HIGH THROUGH-THICKNESS STRESS NOTED. THE SPECIFIC PLATE IN JOINTS THAT ARE INDICATED AS LT SUSCEPTIBLE SHALL BE SUPPLIED ULTRASONICALLY TESTED TO AS 1710 CLASS 1. ALL BUTT JOINTS AT T AND X JOINTS SHALL BE CONSIDERED LT SUSCEPTIBLE UNO.

S09. Z-PLATE REQUIREMENT

JOINTS THAT ARE DESIGNATED LT SUSCEPTIBLE AND FURTHER REQUIRE PLATE TO A NOMINATED Z-VALUE ARE INDICATED ON THE PROJECT DRAWINGS WITH A DESIGNATED Z-VALUE. THE PLATE USED FOR THESE JOINTS SHALL BE ORDERED TO THE DESIGNATED Z-VALUE. ALL PLATES GREATER THAN 16mm TO BE Z35 TO AS3678. ALL PLATES TO BE ULTRA SONICALLY TESTED TO AS1710 CLASS 1 AT THE POINT OF SUPPLY.

S10. SUPPLEMENTARY TESTING

SUPPLEMENTARY ULTRASONIC TESTING TO AS 2207 AND ASINZS 1554.1 IS REQUIRED FOR ALL PLATES 25mm THICKNESS AND OVER. ULTRASONIC TESTING TO AS 1710 CLASS 1.

HIGHLY STRESSED JOINTS SUBJECTED TO HIGH UNIFORM STRESS AS NOMINATED ON THE DRAWINGS OR FOR ALL JOINTS WITH PLATE THICKNESS > 40mm, SHALL BE ULTRASONICALLY TESTED TO AS2207 AND AS1554.1.

S11. STEEL QUALITY

ALL STRUCTURAL STEEL SHALL BE SOURCED FROM MILLS WITH A RELEVANT JAS ANZ ACCREDITED THIRD-PARTY CERTIFICATION SCHEME SUCH AS THE ACRS SCHEME. NO ALTERNATIVE SOURCING OF STEELWORK WITHOUT AN JAS ANZ ACCREDITED THIRD-PARTY SCHEME IS PERMITTED. CURRENT ACRS CERTIFICATE TO BE SUPPLIED TO SCP FOR REVIEW PRIOR TO ERECTION. SCP RESERVES THE RIGHT TO REJECT NON ACRS CERTIFIED STEEL.

S12. SPACING OF STRUCTURAL MEMBERS

ALL STRUCTURAL STEELWORK MEMBERS SHALL BE SUPPLIED IN A SINGLE LENGTH, EXCEPT WHERE OTHERWISE INDICATED WITH SPLICE LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION COMMENCING.

S13. CUTTING, HOLDING AND SHAPING

ALL CUTTING, HOLDING AND SHAPING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASINZS 5131. PENETRATIONS OR CUT-OUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL.

S14. BOLT DESIGNATION

ALL BOLTS TO BE 8.8/S TYPE UNLESS NOTED OTHERWISE.

4.6/S	COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, TIGHTENED TO A SNUG TIGHT CONDITION TO ASINZS 5131
8.8/S	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO ASINZS 1252.1, TIGHTENED TO A SNUG TIGHT CONDITION TO ASINZS 5131
8.8/TB	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO ASINZS 1252.1, FULLY TENSIONED TO ASINZS 5131 AS A BEARING JOINT.
8.8/TF	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO ASINZS 1252.1, FULLY TENSIONED TO ASINZS 5131 AS A FRICTION JOINT.

S15. STEEL QUALITY

ALL BOLTS TO BE SOURCED FROM SUPPLIERS WITH A RELEVANT JAS ANZ ACCREDITED THIRD-PARTY CERTIFICATION SCHEME, SUCH AS THE ACRS SCHEME. NO ALTERNATIVE SOURCING OF BOLTS WITHOUT A JAS ANZ ACCREDITED THIRD-PARTY SCHEME IS PERMITTED. CURRENT ACRS CERTIFICATE TO BE SUPPLIED TO SCP FOR REVIEW PRIOR TO ERECTION. SCP RESERVES THE RIGHT TO REJECT NON ACRS CERTIFIED BOLT ASSEMBLIES UNLESS NOTED OTHERWISE ALL T/F/TB BOLTS TO BE HOBSON BRAND.

S16. METHOD OF TENSIONING

T/B AND T/F BOLT CATEGORIES SHALL BE INSTALLED USING EITHER THE PART TURN METHOD OR THE DIRECT TENSION INDICATOR METHOD TO ASINZS 5131.

S17. CONTACT SURFACES IN TENSIONED CONNECTIONS

FOR CONNECTIONS WHERE 8.8/TF BOLTS ARE SPECIFIED, A FRICTION COEFFICIENT OF 0.35 HAS BEEN ASSUMED FOR THE DESIGN. THE CONTACT SURFACES SHALL BE PREPARED ACCORDING TO ASINZS 5131 AND BE FREE FROM PAINT, LACQUER OR OTHER APPLIED FINISHES UNLESS THE APPLIED FINISH HAS BEEN TESTED IN ACCORDANCE WITH ASINZS 5131 APPENDIX G AND A FRICTION COEFFICIENT OF 0.35 OR HIGHER IS DETERMINED.

S18. BOLT FINISH

ALL BOLTS SHALL BE HOT-DIP GALVANISED TO ASINZS 1214.

S19. WELDING CONSUMABLES

WELDING CONSUMABLES SHALL CONFORM TO THE REQUIREMENTS OF ASINZS 1554, BASED ON THE YIELD STRENGTH OF THE STEEL TO BE WELDED, AS DEFINED IN THE TABLE BELOW:

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED	TO CONFORM WITH AUSTRALIAN STANDARDS
<500 MPa	ASINZS 1554.1
>500 MPa, <690 MPa	ASINZS 1554.4

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED	NOMINAL TENSILE STRENGTH OF WELD METAL, (MPa)
ALL STEEL WITH GRADE<500 MPa	430
ALL STEEL WITH 300 < GRADE <450 MPa	490
QUENCH & TEMPERED STEEL TO GRADE 690 MPa	760

ELEMENT	WELD CATEGORY
SHOP WELD	SP
SITE WELD	SP

WELDS SUBJECT TO FATIGUE LOADING TO BE FP WELD CATEGORY

NON-DESTRUCTIVE EXAMINATION

ALL WELDS 100% VISUALLY SCANNED / EXAMINED TO AS1554.1 THE EXTENT OF NON-DESTRUCTIVE SC1 & SC2 EXAMINATION (NDE) SHALL BE AS DEFINED IN TABLE 13.6.2.2(A) OF ASINZS 5131.

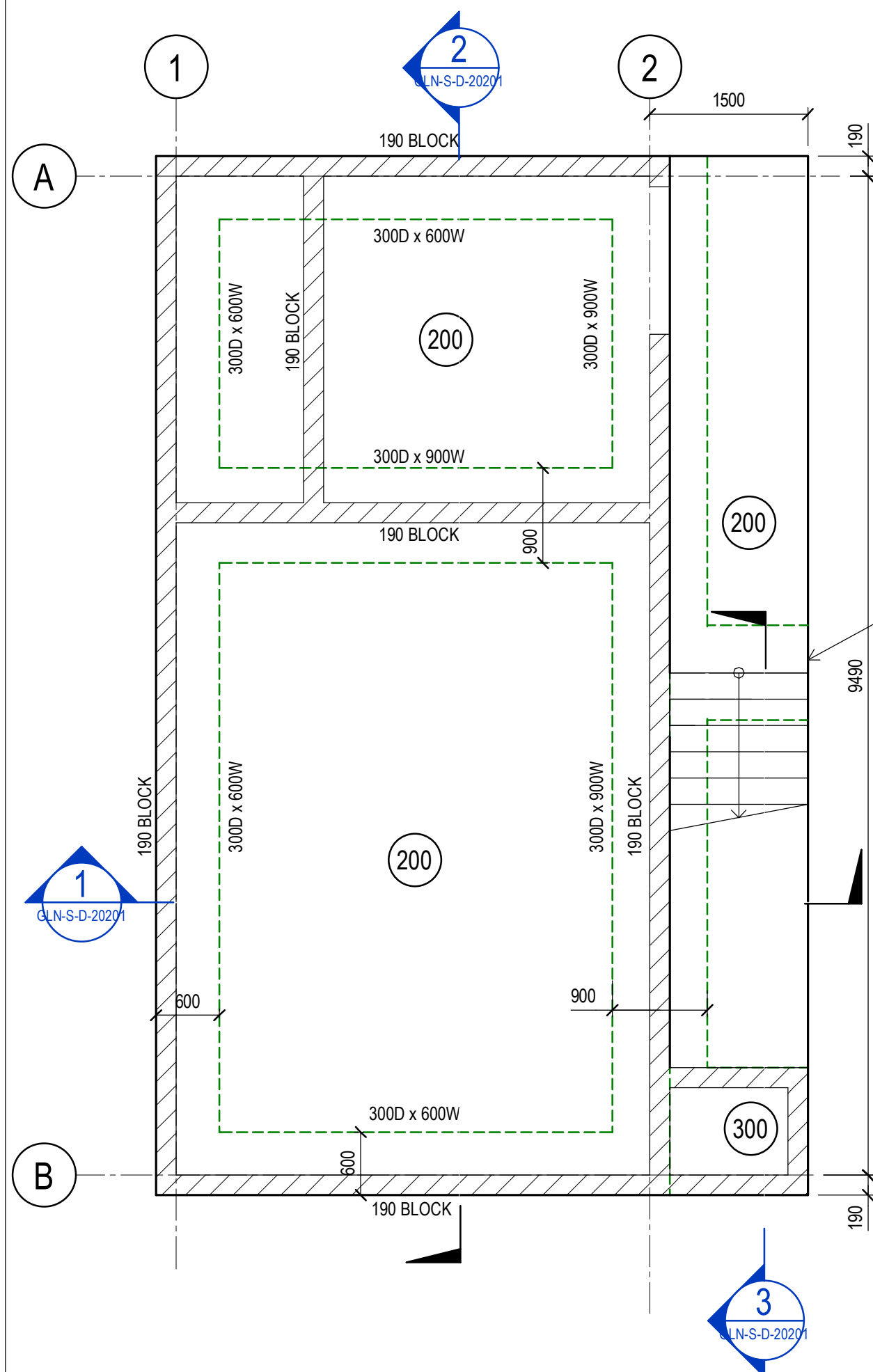
SHOP OR SITE FILLET WELD TO BE 10% MAGNETIC PARTICLE OR LIQUID PENETRANT. SHOP OR SITE BUTT WELDS TO BE 100% ULTRASONICALLY OR RADIOGRAPHY TESTED.

ALL WELD TEST CERTIFICATION TO BE NATA CERTIFIED AND SUBMITTED TO SCP CONSULTING.

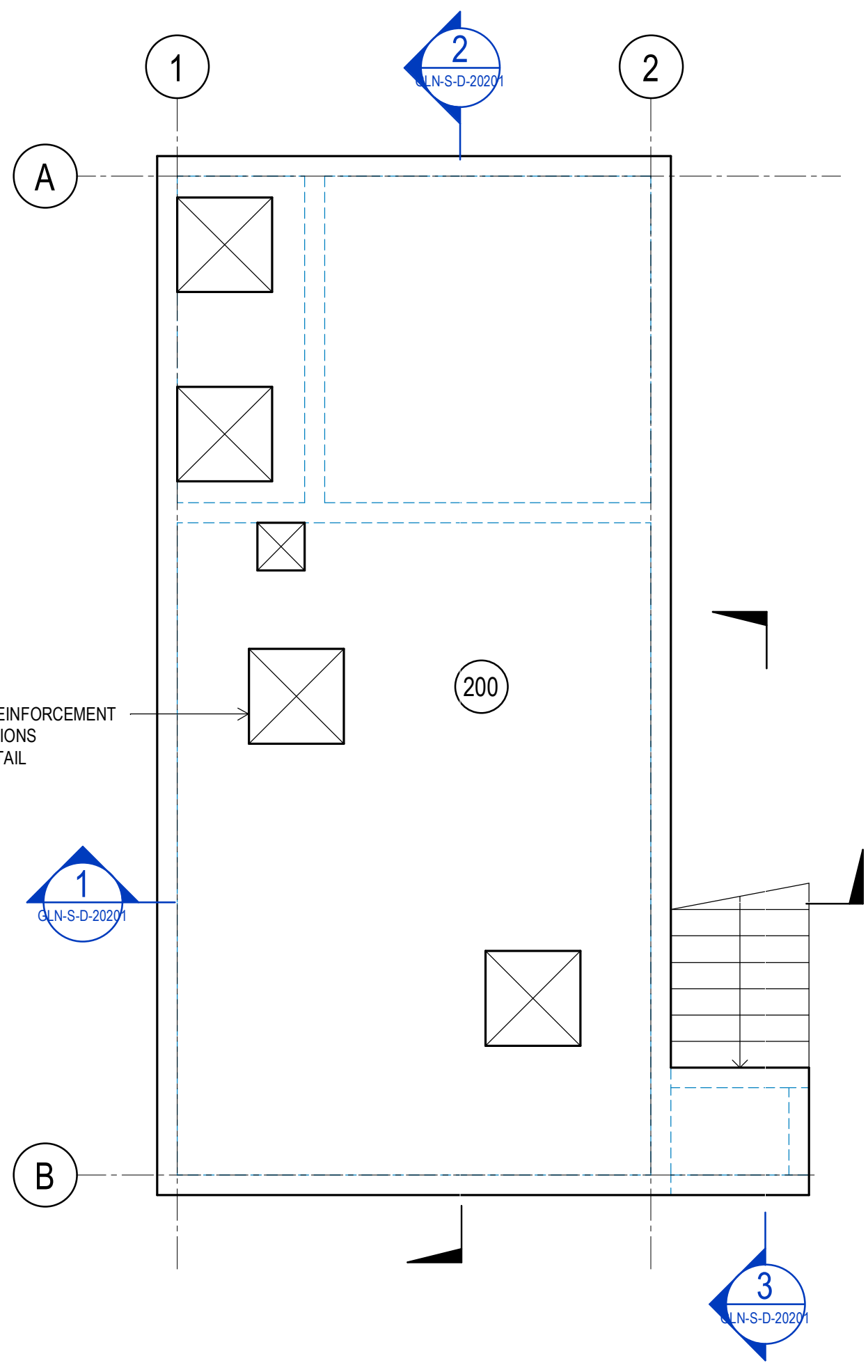
S20. MINIMUM CONNECTION DETAILING GUIDELINES

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

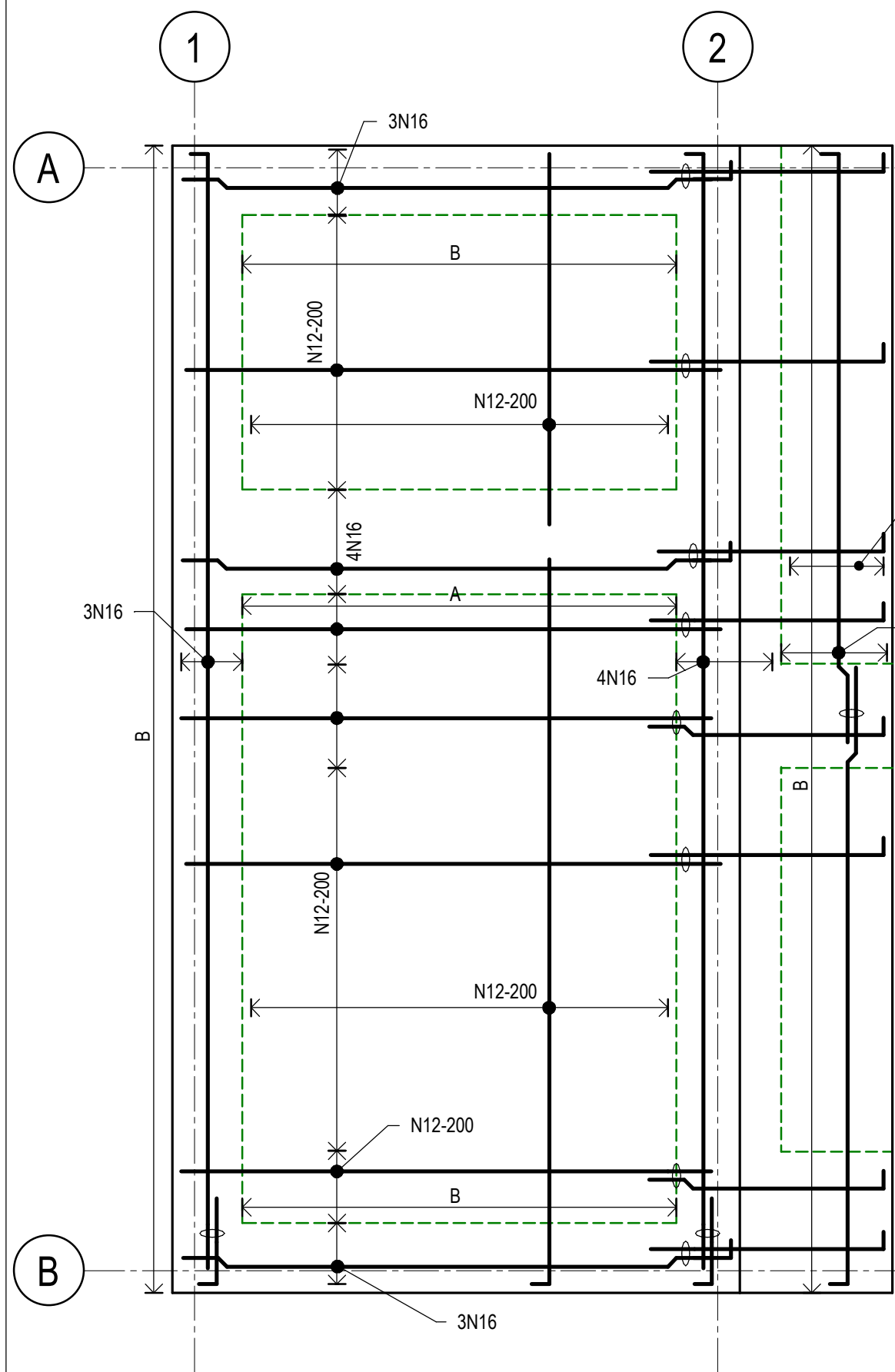
- S21.**
- a) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD (CFW) 4E8XX SP ALL ROUND
 - b) ALL STEEL TO STEEL BOLTED CONNECTION



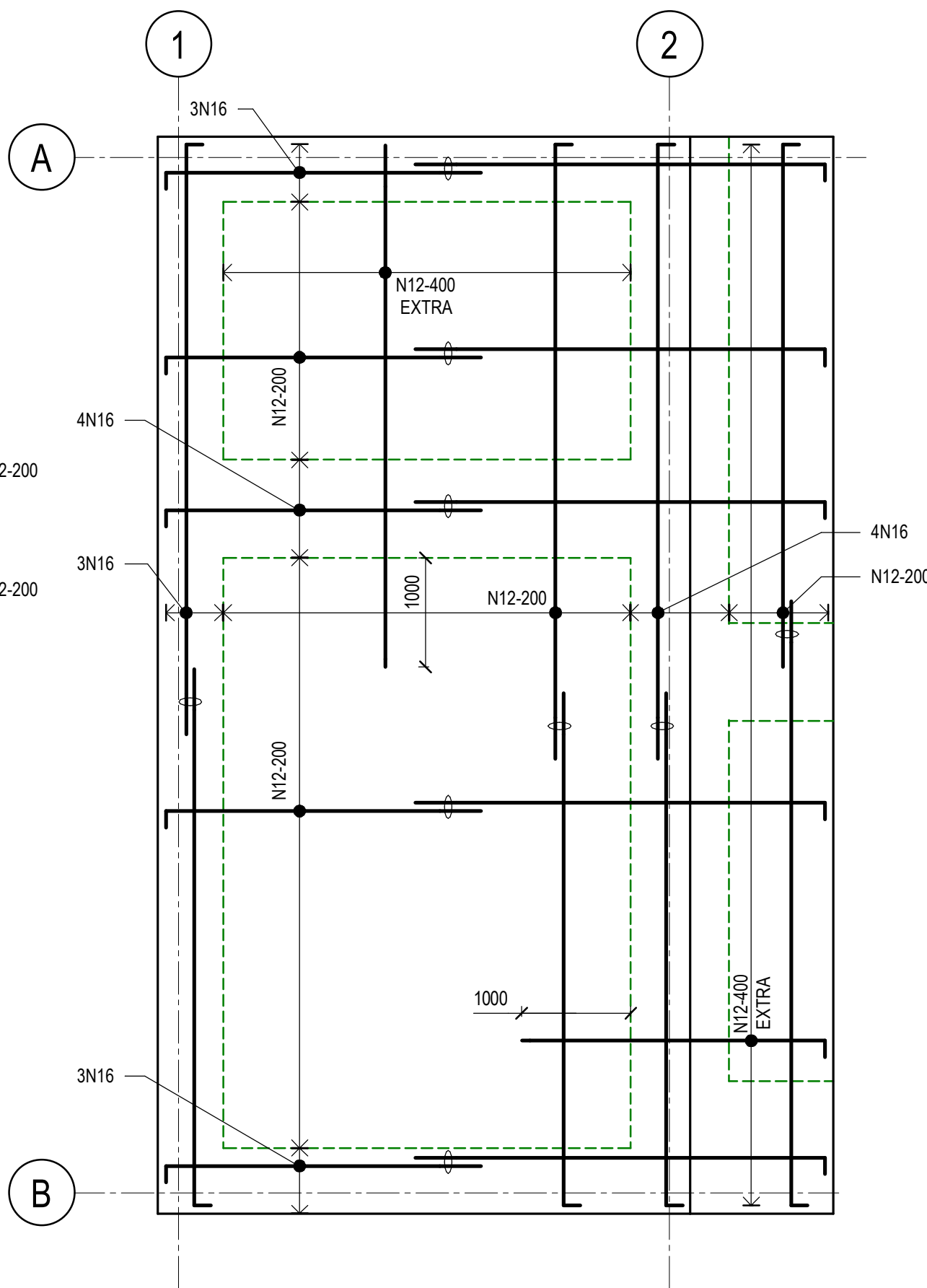
TANK SLAB GENERAL ARRANGEMENT
SCALE 1 : 50



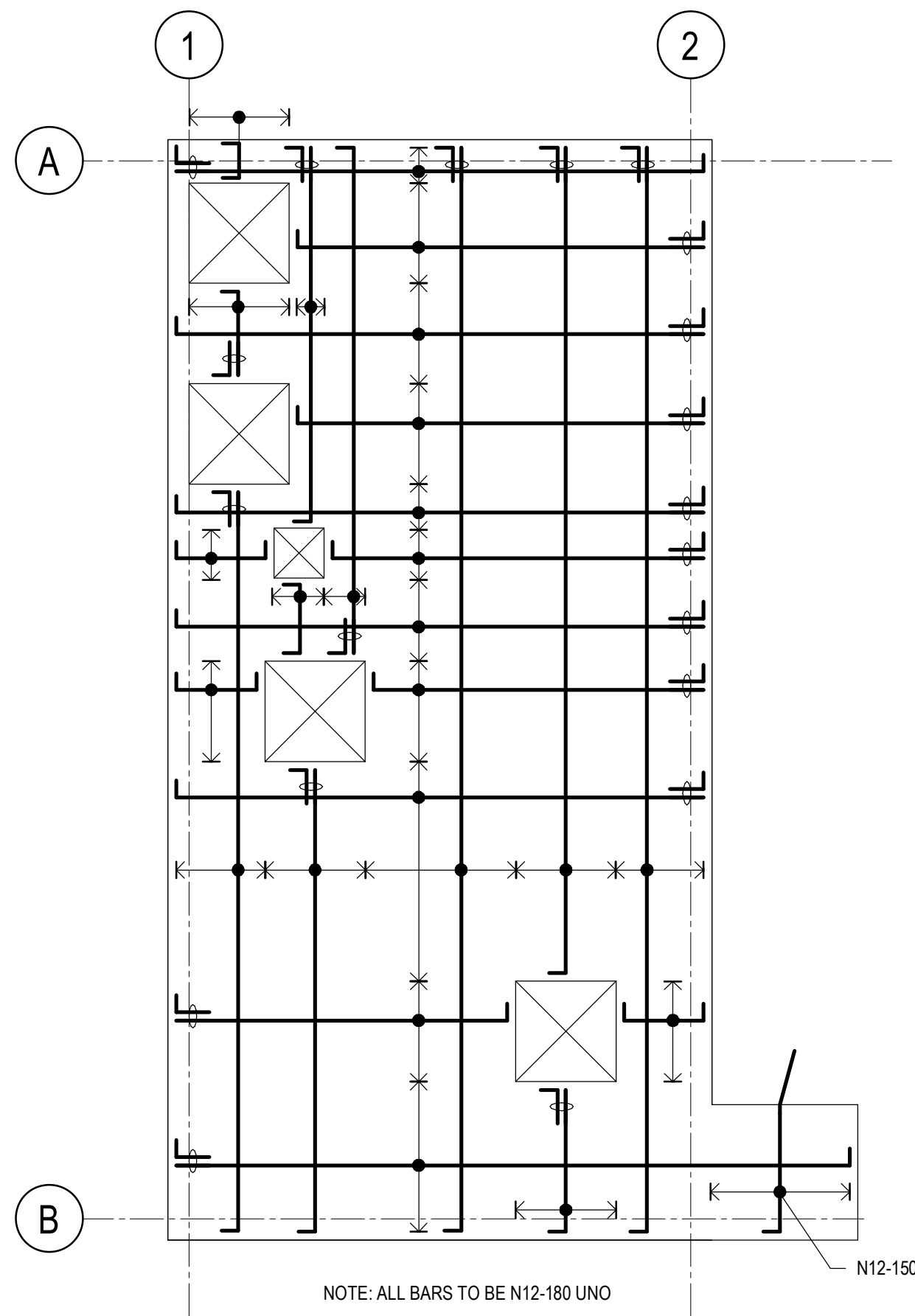
TANK LID GENERAL ARRANGEMENT PLAN
SCALE 1 : 50



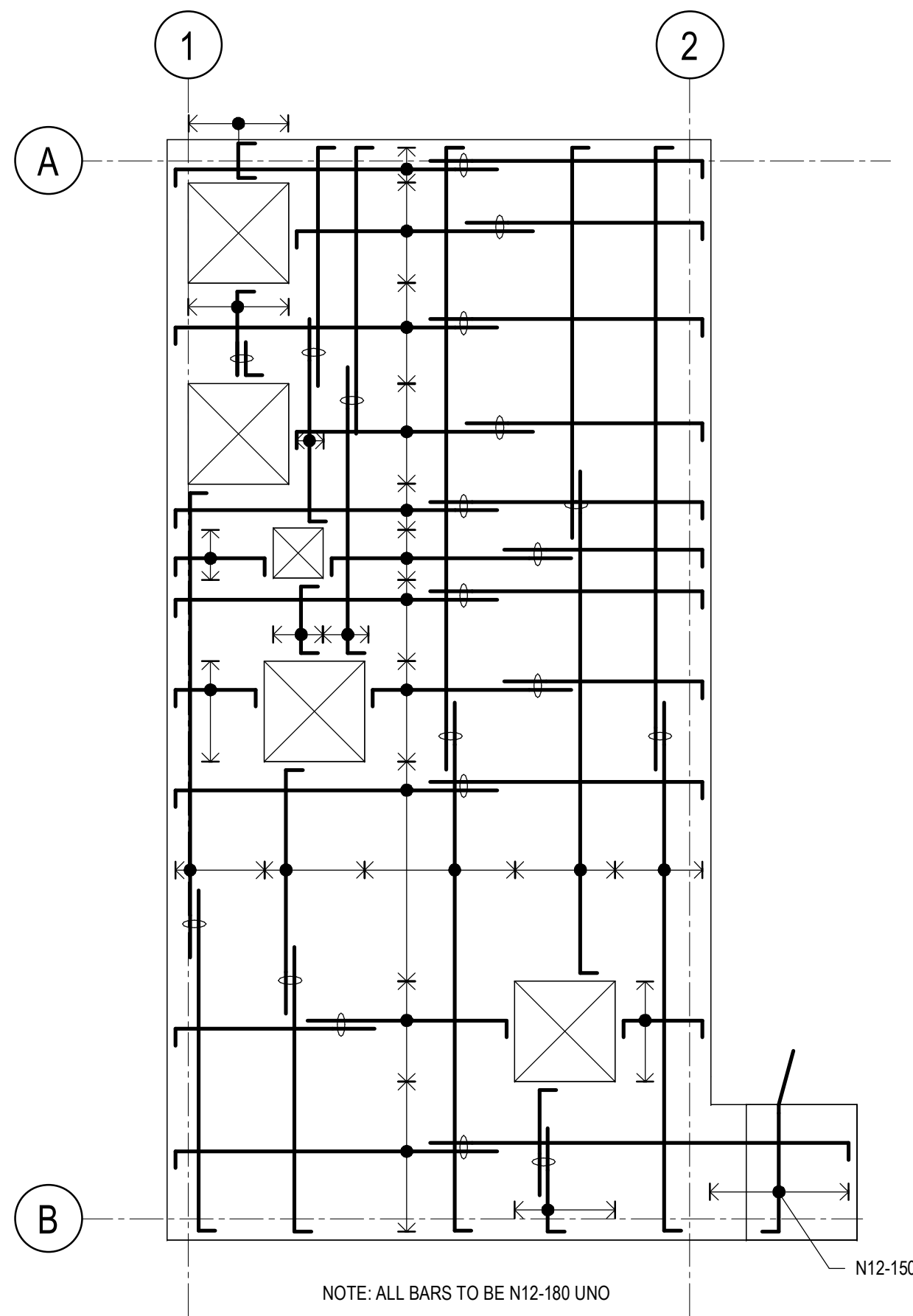
TANK SLAB REINFORCEMENT BOTTOM PLAN
SCALE 1 : 50



TANK SLAB REINFORCEMENT TOP PLAN
SCALE 1 : 50



TANK ROOF SLAB REINFORCEMENT BOTTOM PLAN
SCALE 1 : 50



TANK ROOF SLAB REINFORCEMENT TOP PLAN
SCALE 1 : 50

LAP SCHEDULE - SLABS (LESS THAN 300 THICK)

BAR DIAMETER	CONCRETE STRENGTH $f_c =$				
	32 MPa	40 MPa	50 MPa	65 MPa	80 MPa
N12	500	450	400	350	350
N16	700	650	600	500	500
N20	950	850	800	700	700
N24	1250	1100	1000	900	900
N28	1550	1350	1250	1100	1100
N32	1850	1650	1500	1300	1300
N36	2200	1950	1750	1550	1550

NOTE: FOR SLABS GREATER THAN 300 THICK, USE BEAM LAP SCHEDULE

LAP SCHEDULE - BEAMS

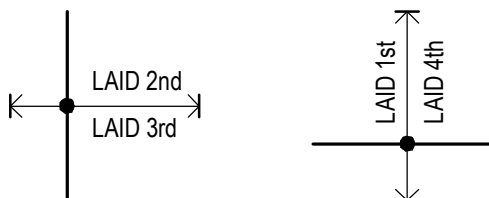
BAR DIAMETER	CONCRETE STRENGTH $f_c =$				
	32 MPa	40 MPa	50 MPa	65 MPa	80 MPa
N12	500	450	450	450	450
N16	800	750	650	600	600
N20	1150	1000	900	800	800
N24	1500	1350	1200	1050	1050
N28	1850	1650	1500	1300	1300
N32	2250	2000	1800	1600	1600
N36	2700	2400	2150	1900	1900

TIE SCHEDULE

TIE TYPE	REINFORCEMENT	TIE ARRANGEMENT
'A'	N12-400	
'B'	N12-400	

LAYERING SEQUENCE

UNLESS NOTED OTHERWISE ON PLAN



REINFORCEMENT NOTES

DISTRIBUTION BARS TO BE N12-500 U.N.O. ON PLAN EX. DENOTES EXTRA BARS

PROVIDE SL72 MESH OVER TOP FOR BEAMS 450 DEEP OR DEEPER. NOT SHOWN ON PLAN TYP.

PROVIDE SL72 MESH OVER TOP FOR ALL EXTERNAL SLABS & BEAMS. NOT SHOWN ON PLAN TYP.

FOR ADDITIONAL REINFORCEMENT NOT SHOWN ON PLAN REFER SLAB SECTION DETAILS, TYPICAL STRESSING ANCHORAGE DETAILS & SLAB DOWEL DETAILS

BAR LAPS FOR ALL OUTSIDE BARS IN BEAMS BANDS SHALL BE JOGGLED

CUT CROSS RODS AND LAP TO ALLOW MAXIMUM TENDON DRAPE

ALL REINFORCEMENT SUPPLIED SHALL BE ACRS CERTIFIED. AN ACRS CERTIFICATE SHALL BE SUBMITTED TO SCP CONSULTING FOR VERIFICATION

TOP REINFORCEMENT IN BEAMS AT BEAM INTERSECTIONS SHALL HAVE TOP BARS CRANKED OR LIGATURE HEIGHT LOWERED TO AVOID REINFORCEMENT CLASH.

MINIMUM CLEAR COVER TO REINFORCEMENT;

: 40mm BOTTOM (INTERNAL)

: 40mm BOTTOM (EXTERNAL)

: 40mm SIDES (INTERNAL)

: 40mm SIDES (EXTERNAL)

: 40mm TOP (INTERNAL)

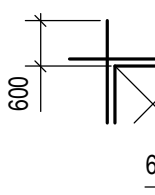
: 40mm TOP (EXTERNAL)

REFER TO SECTIONS FOR ANY ADDITIONAL REINFORCEMENT THAT MAY NOT BE SHOWN ON PLANS

BARS AT PENETRATIONS



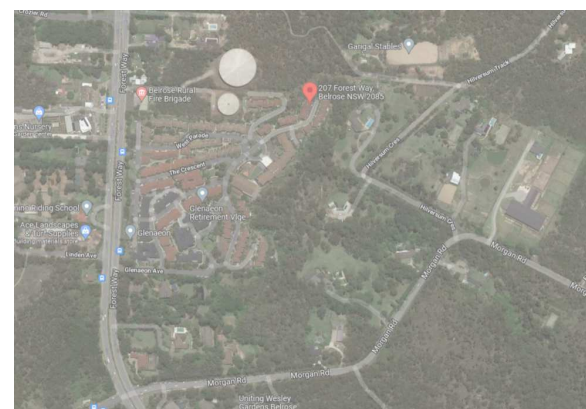
TRIMMER DETAIL



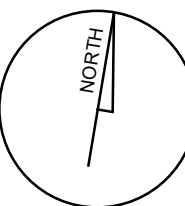
PROVIDE 2N16 TOP & BTM TRIMMER BARS EXTENDING 600mm PAST EACH EDGE OF OPENINGS / PENETRATIONS, UNLESS NOTED OTHERWISE ON PLAN.

LAYERING TO SUIT ADJACENT REINFORCEMENT.

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Key Plan



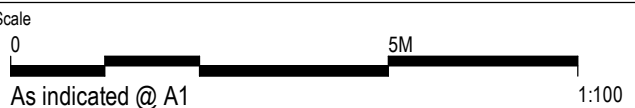
A	TENDER ISSUE	14.03.22
Rev	Revision Description	Date



Client
LENLELEASE

Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
TANK PLANS

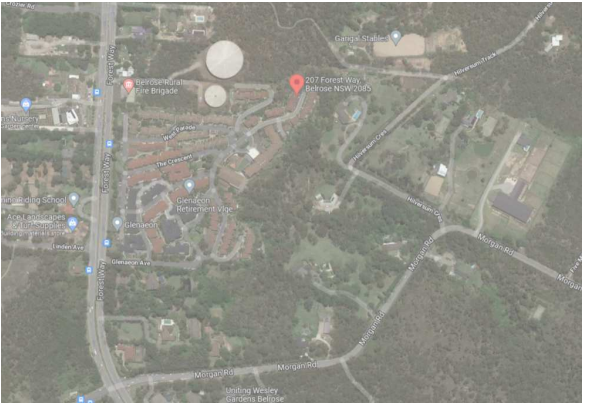


Drawn LC	Checked KD	Approved HW	Revision A
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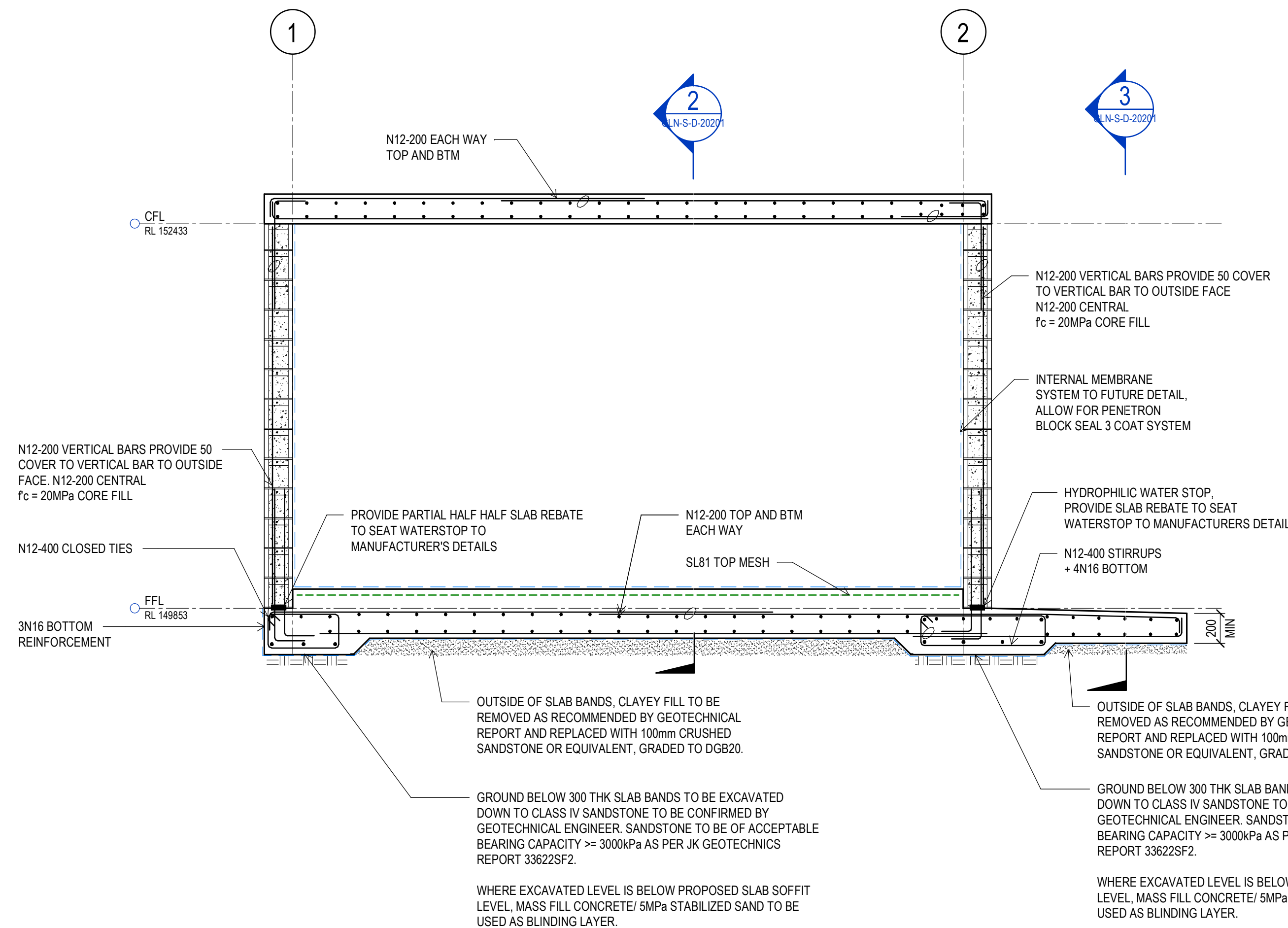
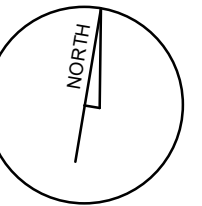
Project Number
S210157

Drawing Number
GLN-S-D-20101

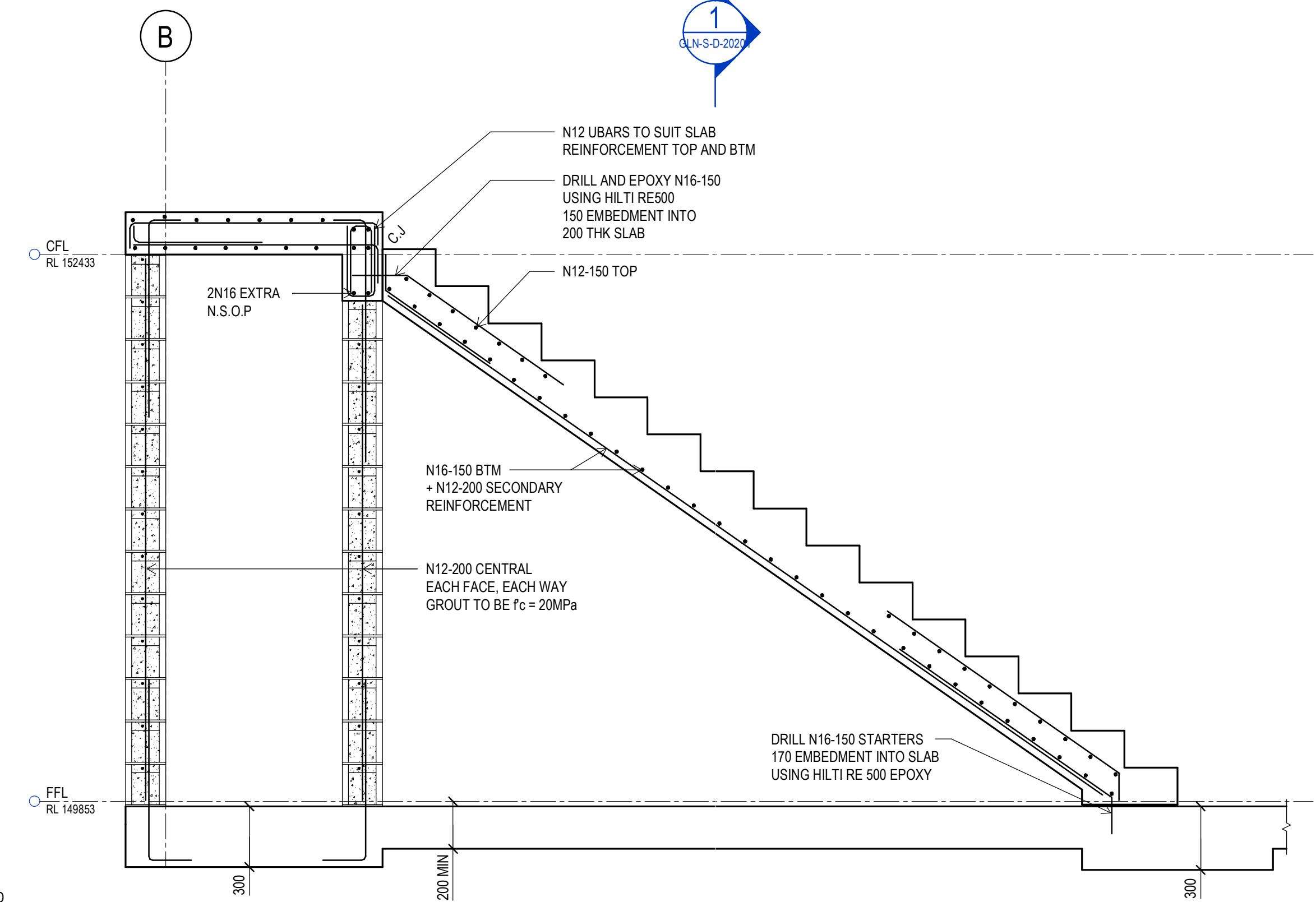
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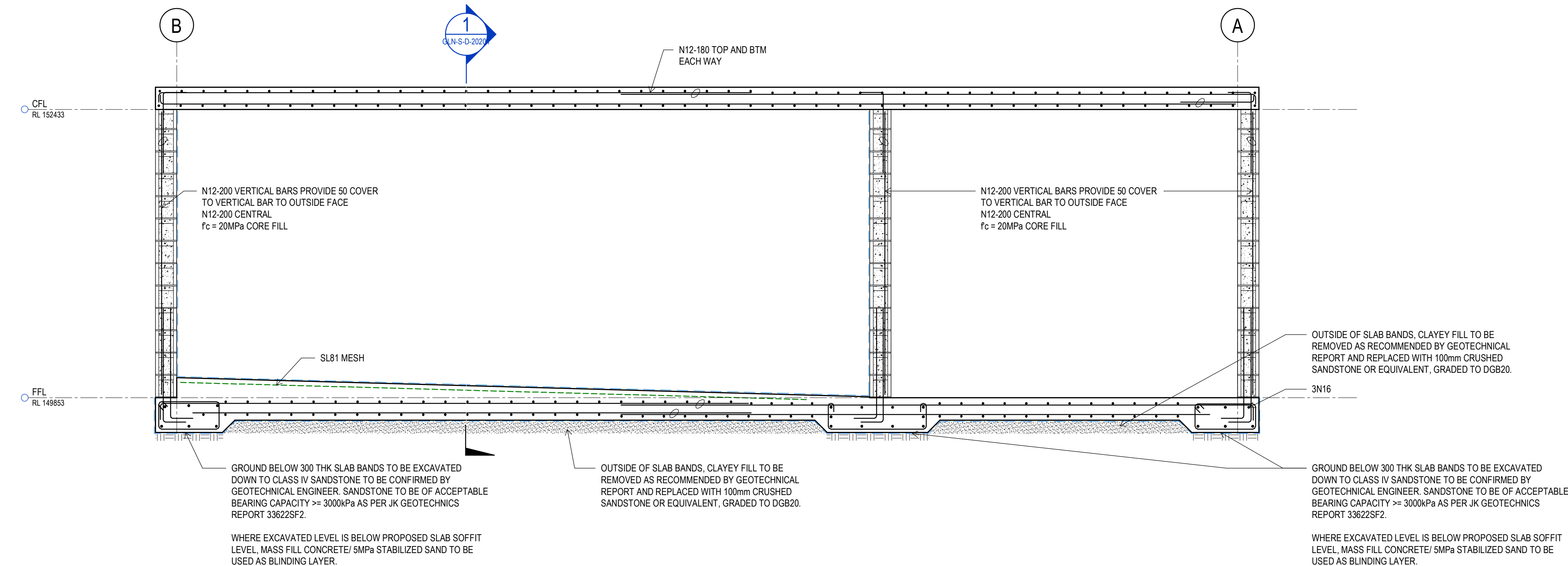
Key Plan



1 SECTION
SCALE 1:25



3 SECTION
SCALE 1:20



2 SECTION
SCALE 1:25

Rev	Revision Description	Date
A	TENDER ISSUE	14.03.22

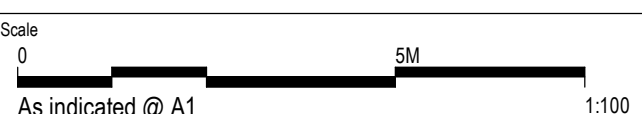
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▲ mail@scpconsult.com.au ▲ ABN 80 003 076 024

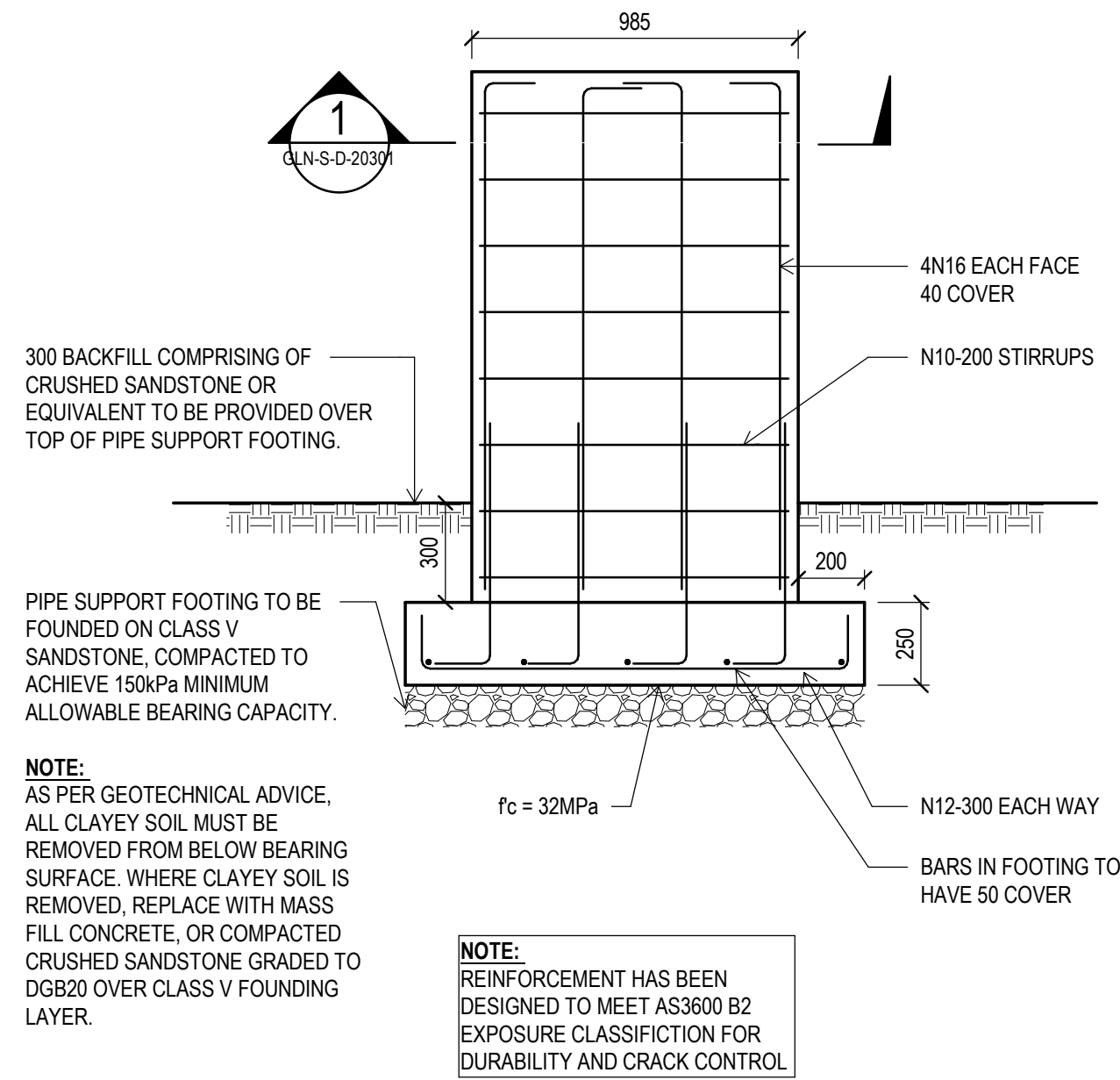
Client
LENLELEASE

Project
GLENAON RETIREMENT LIVING - SPS UPGRADE PROJECT

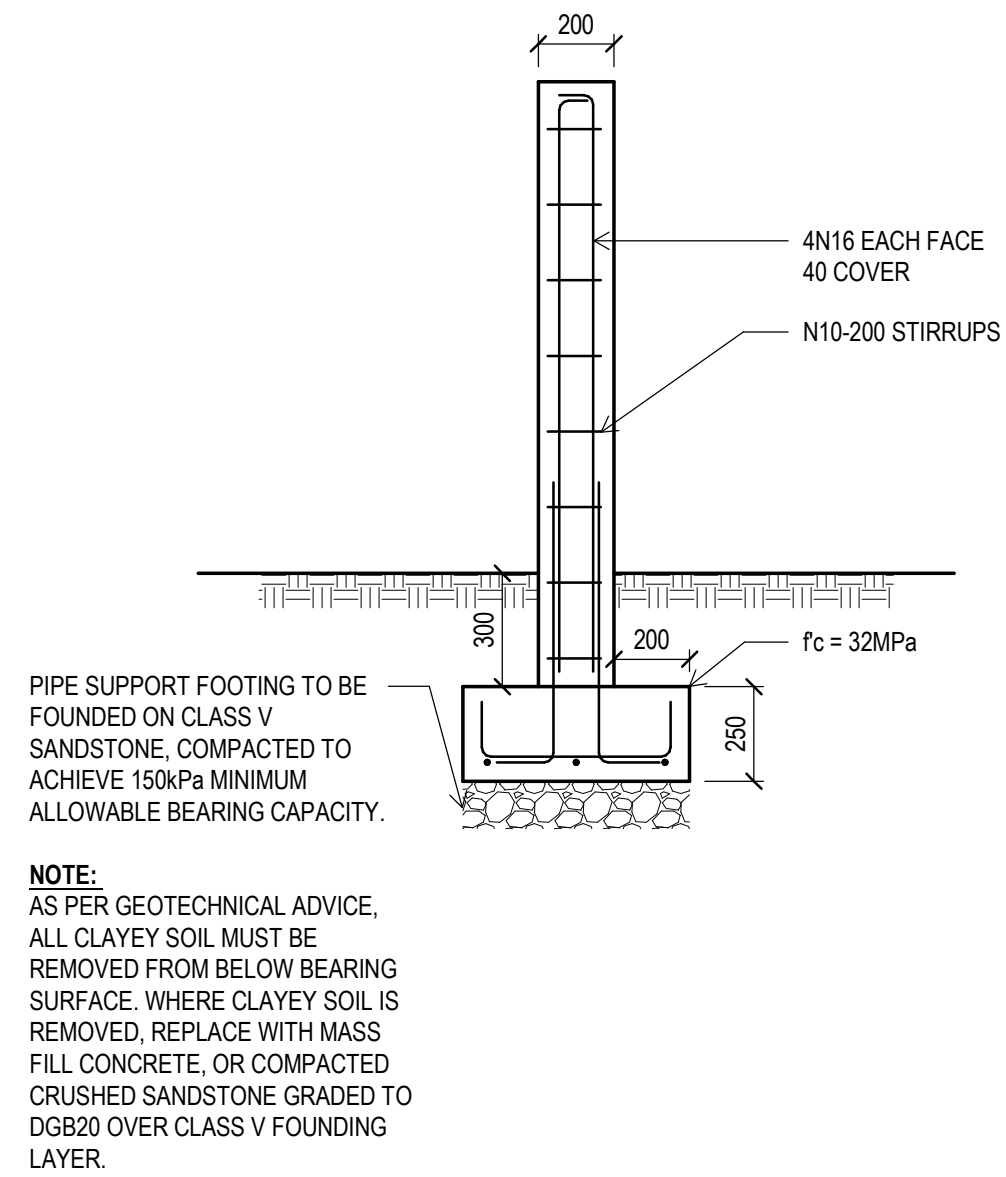
Title
TANK DETAILS SHEET 1



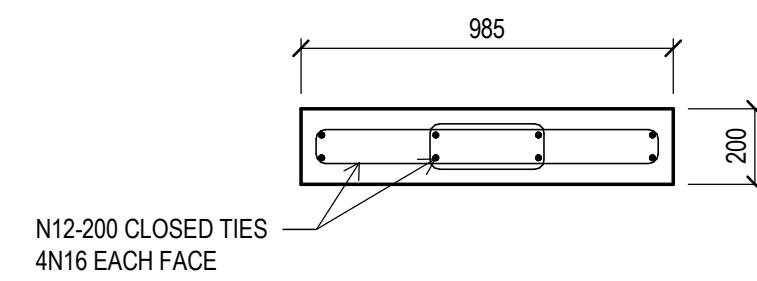
Drawn	Checked	Approved	Revision
LC	KD	HW	
Project Number	Drawing Number	Revision	
S210157	GLN-S-D-20201	A	



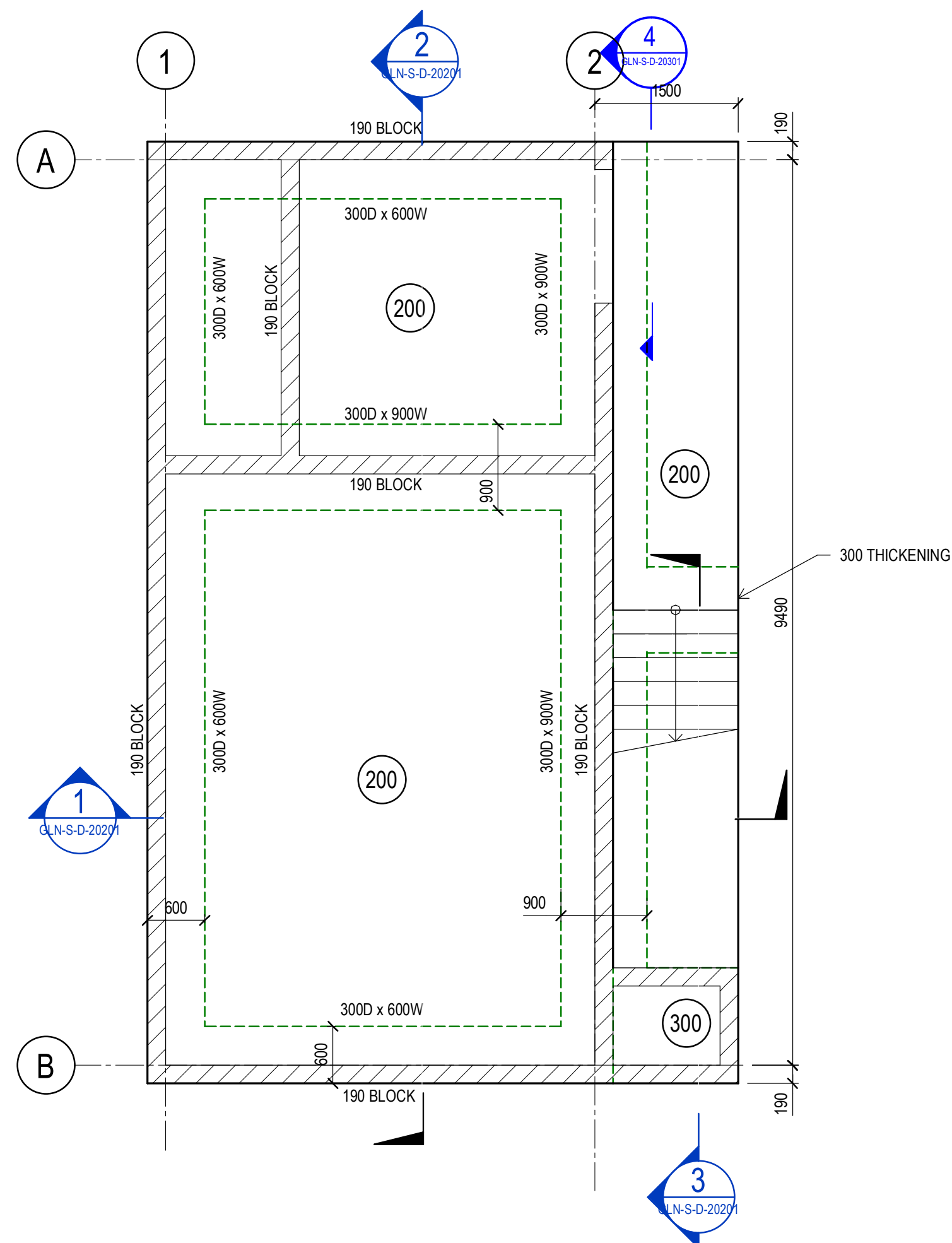
**PIPE SUPPORT COLUMN TYPICAL
ELEVATION LONG SIDE**
SCALE 1:20



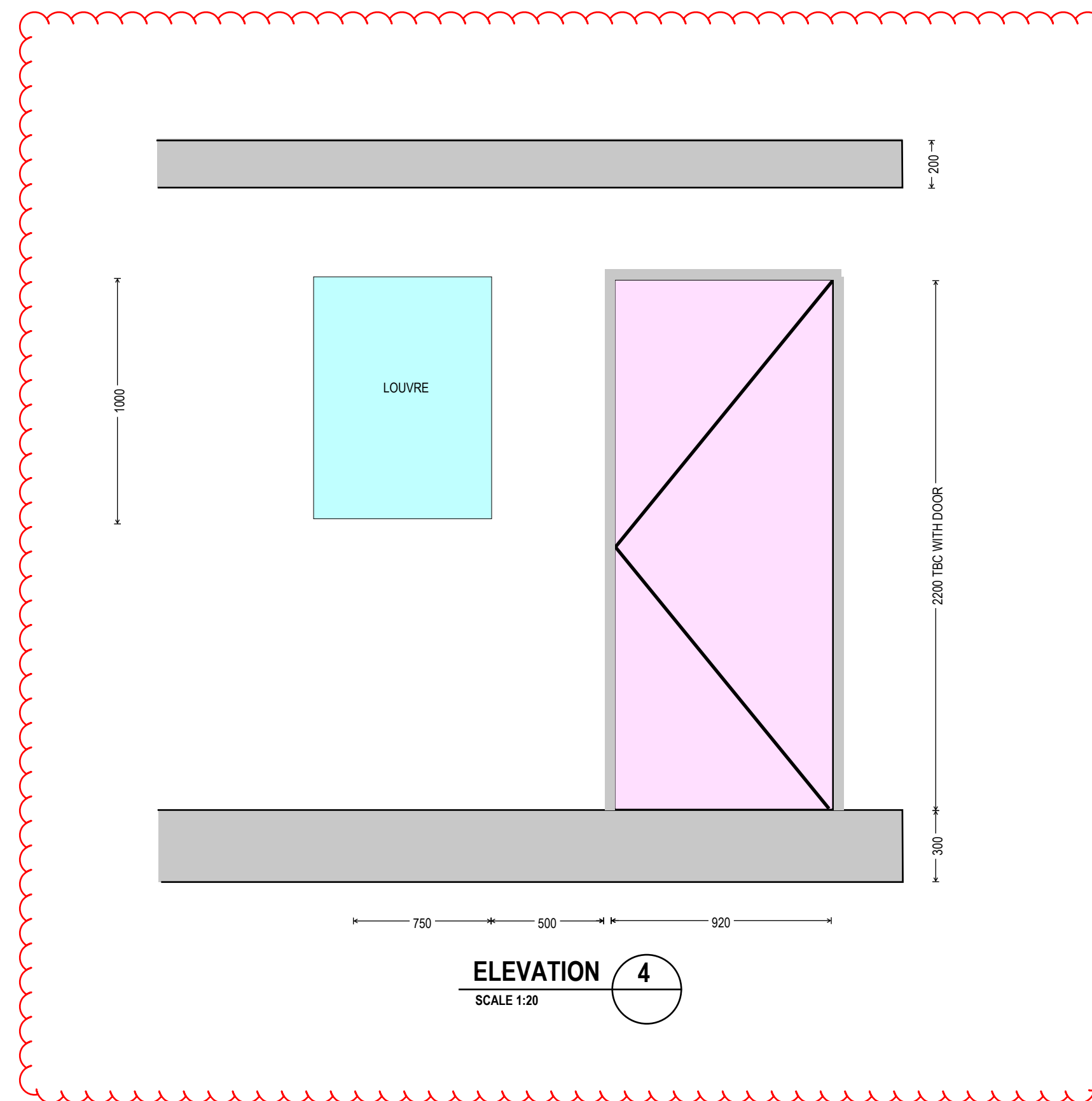
**PIPE SUPPORT COLUMN TYPICAL
ELEVATION SHORT SIDE**
SCALE 1:20



SECTION 1
SCALE 1:20

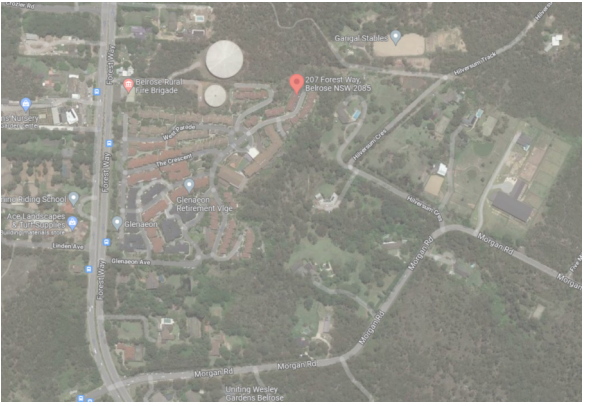


TANK SLAB GENERAL ARRANGEMENT
SCALE 1:50

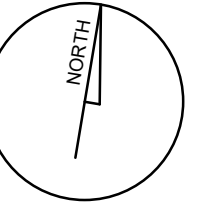


ELEVATION 4
SCALE 1:20

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Key Plan



Rev	Revision Description	Date
C	TENDER ADDENDUM	12.06.22
B	TENDER ADDENDUM	13.04.22
A	TENDER ISSUE	14.03.22

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Client				
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Project				
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT				
Title				
DETAILS SHEET 1				
Scale				
0 1 : 20 @ A1 5M 1 : 100				
Drawn		Checked	Approved	
LC		KD	HW	
Project Number		Drawing Number		Revision
S210157		GLN-S-D-20301		C

STAGING & MIGRATION OF ELECTRICAL WORKS

PHASE 1

COMPLETE ALL ELECTRICAL WORKS INCLUDING EARTHING WITHIN NEW PUMP HOUSE

EXTERNAL WORKS

SUPPLY AND INSTALL:

- ELECTRICAL PITS/CONDUITS CABLE TRAY AND SUPPORTS BETWEEN PUMP HOUSE MSB AND EXTERNAL CUPBOARD IN TOWNHOUSE
- LV SUBMAIN + EARTH BETWEEN MSB PH AND EXTERNAL CUPBOARD IN TOWN HOUSE
- CONTROL CABLE BETWEEN MSB PH AND EXTERNAL CUPBOARD IN TOWN HOUSE

PHASE 2

PRIOR TO DISCONNECTING EXISTING SEWER PUMP INCOMING SUPPLY AT DB

CHECK AND VERIFY

- FUEL AND TOP UP IN DG DAY TANK
- AUTO OPERATION OF EXISTING DG SET ON LOSS OF MAINS AND VERIFY PUMPS ARE RUNNING

PHASE 3

INSTALL NEW INCOMING MAINS AT THE EXISTING CUPBOARD

ISOLATE AND DECOMMISSION EXISTING METERS AND DB

INSTALL NEW MSB AND METERING PANEL

TEST AND RETERMINATE EXISTING:

- TOWN HOUSE SUBMAINS TO RESPECTIVE KWH METERS
- LIGHTING CIRCUITS WITHIN DB

TEST AND TERMINATE LV SUBMAINS TO NEW MSB PH

TEST EARTHING SYSTEM

LOAD TEST NEW DG SET ON SITE AFTER PLACING IN NEW LOCATION

4HR FULL LOAD TEST AT UNITY PF UTILISING AN ADJUSTABLE TEMPORARY LOAD BANK. 110% FOR THE FINAL HOUR.

CONDUCT A STEP LOAD TEST, IN LOAD STEPS AS FOLLOWS.

- 0 - 50%
- 50 - 75%
- 75 - 100%

INCLUDING SIMULATED MAINS-FAILURE TESTS AND ACTUAL INCOMING LV MAINS FAILURE TEST TO PROVE OPERATION OF GENERATOR THROUGH ATS

USING PUMP LOAD WITH ADDITIONAL DUMMY LOAD WHERE REQUIRED TO BRING LOAD TO NO LESS THAN 75% OF RATING OF GENERATOR SET

CONTRACTOR TO INCLUDE FOR FUEL FOR THE DURATION OF THE TEST

ENERGISE THE NEW INCOMING SUPPLY AT THE METERING PANEL

ENERGISE THE NEW INCOMING SUPPLY TO MSB PH

TEST ALL ELECTRICAL WORKS WITHIN NEW PUMP HOUSE

LOSS OF MAINS TEST AND AUTO OPERATION OF DG SET

PHASE 4

ISOLATE AND DECOMMISSION EXISTING DG SET AND ATS PANEL

MAKE SAFE EXISTING POWER AND CONTROL CABLES AND INSTALL END CAPS

COORDINATE WITH SITE MANAGER AND RELOCATE EXISTING DG SET

PUMP HOUSE ELECTRICAL SOW

SUPPLY AND INSTALL

- 3 OFF LIGHT FITTINGS (TYPE L1) C/W (1 OFF EMERGENCY VERSION) + 1 OFF EXTERNAL LIGHT FITTINGS (TYPE W1) SUBCIRCUIT WIRING IN SURFACE MOUNTED PVC CONDUITS

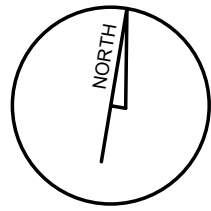
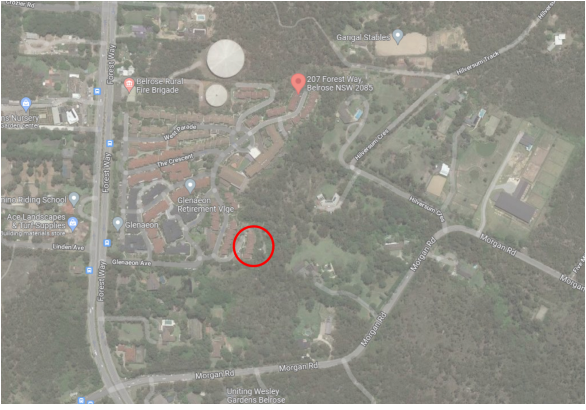
- 1 OFF EXIT LIGHTING WITH EMERGENCY TEST FACILITY C/W SUBCIRCUIT WIRING IN SURFACE MOUNTED PVC CONDUITS

- 2 OFF WALL MOUNTED LIGHT SWITCH IN WEATHER PROOF ENCLOSURE + 360D CEILING MOUNTED MOTION SENSOR

- 1 OFF 10A WEATHER PROOF DGPO C/W SUBCIRCUIT WIRING IN SURFACE MOUNTED PVC CONDUIT

LUMINAIRE SCHEDULE										
	IMAGE	DESCRIPTIONS	COLOUR	DIMENSION	CAT NO.	SUPPLIER	LAMP	CONTROL	MOUNTING	NOTES
L1		"ENERGY EFFICIENT LED WEATHERPROOF LUMINAIRE"	4000K	L 1265MM W 130MM H 92MM	BWPECO454E4	PIERLITE	45W LED	NON DIMMABLE	SURFACE MOUNTED	- LUMINAIRE MUST HAVE A MINIMUM IP RATING OF IP65 - ALL APPROVED LUMINAIRES ARE TO DEMONSTRATE A TOTAL HARMONIC DISTORTION (THD) OF <5% FOR EACH ELECTRICAL COMPONENT
W1		EXTERNAL WALL MOUNTED	4000K	L 362MM W 162MM H 214MM	LED TLSWM/1900NW/XC49	DESIGN PLAN	20W LED	NON DIMMABLE	SURFACE WALL MOUNTED	- LUMINAIRE MUST HAVE A MINIMUM IP RATING OF IP65 - ALL APPROVED LUMINAIRES ARE TO DEMONSTRATE A TOTAL HARMONIC DISTORTION (THD) OF <5% FOR EACH ELECTRICAL COMPONENT
EXIT		SURFACE/WALL MOUNTED LED BLADE EXIT 24M VIEWING PICTOGRAM DECAL OR APPROVED EQUAL	WHITE	L 355MM W 80MM H 215MM	ECFLED	CLEVERTRONICS	3W LED	NON MONITORED MAINTAINED EMERGENCY CONTROL GEAR	SURFACE MOUNTED/ WALL MOUNTED	- ALL EMERGENCY EQUIPMENT IS TO BE ABLE TO DEMONSTRATE A 4 HOUR EMERGENCY BATTERY OPERATION - EXIT LUMINAIRE MUST HAVE A MINIMUM CLASSIFICATION OF E2 AND E2/5 AS PER AS2293
NOTES: - ALL LUMINAIRES SHALL BE SUPPLIED COMPLETE WITH A COMPATIBLE DRIVER/BALLAST - LEAD TIME AND WARRANTY PERIODS SHALL BE CONFIRMED BY CONTRACTOR - LUMINAIRES IDENTIFIED AS PER THE SCHEDULE HAVE BEEN USED FOR THE PURPOSE OF LIGHTING CALCULATIONS ASSOCIATED WITH THE LIGHTING DESIGN. IN CASE THE CONTRACTOR WANTS TO PROPOSE AN EQUIVALENT ALTERNATIVE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE NEW LUMINAIRE CONFORMS TO THE LIGHTING PERFORMANCE REQUIREMENTS AND CONTRACTOR SHALL THEREFORE PROVIDE ALL RELEVANT CALCULATIONS TO PROVE. WE NOTE THAT THE PROCUREMENT OF ALTERNATIVE LUMINAIRE IS SUBJECT TO APPROVAL										

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EXISTING ENCLOSURE TO BE DEMOLISHED
LV SUBMAIN TO BE INSTALLED WITHIN THE CONDUIT AT THE POINT OF THE INTERFACE BETWEEN CONDUIT AND CABLE TRAY

ELECTRICAL PIT 600X600X1000MM WITH LID

EXISTING PUMP STATION AND ENCLOSURE TO BE DEMOLISHED PER DECOMMISSIONING SPECIFICATION ON DRAWING GLN-H-D-00001

ALL ELECTRICAL CABLES AND EQUIPMENT TO BE SAFELY ISOLATED AND DECOMMISSIONED

LV SUBMAINS TO INTERFACE WITH ABOVE GROUND CABLE TRAY AT THIS POINT

LV SUBMAIN AND CONTROL CABLES FROM DG SET TO MSB PH INSTALLED IN 300MM WIDE GI CABLE TRAYS WITH SUPPORTS AND GI PITCHED ROOF COVER



EXISTING METERING ARRANGEMENT TO BE REPLACED WITH NEW

EXISTING ELECTRICAL CUPBOARD WITH 12 METERS AND DB TO BE UPGRADED

1NO 100Ø HDPVC INGROUND CONDUIT

PROPOSED NEW LV SUBMAINS FROM NEW SWITCHBOARD TO NEW MSB PH INSTALLED IN PIT AND CONDUITS.

CABLE INSTALLED IN PIT AND CONDUIT ARRANGEMENT.

ELECTRICAL PIT 600X600X1000MM WITH LID

1NO 100Ø HDPVC INGROUND CONDUIT

SPS ELECTRICAL DEMOLITION AND STAGING PLAN

1 : 100



FOR INFORMATION ONLY

EXISTING STORE HOUSE AND SLAB TO BE DEMOLISHED

EXISTING DG SET LOCATION

EXISTING DG SET TO BE DECOMMISSIONED AFTER COMMISSIONING OF NEW SET



LV SUBMAIN AND CONTROL CABLES FROM DG SET TO MSB PH INSTALLED IN 300MM WIDE GI CABLE TRAYS WITH SUPPORTS AND GI PITCHED ROOF COVER

Rev	Revision Description	Date
D	TENDER ADDENDUM	08/11/2022
C	TENDER ADDENDUM	04/04/2022
B	TENDER ISSUE	16/03/2022
A	ISSUED FOR DRAFT TENDER	09/03/2022

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Client
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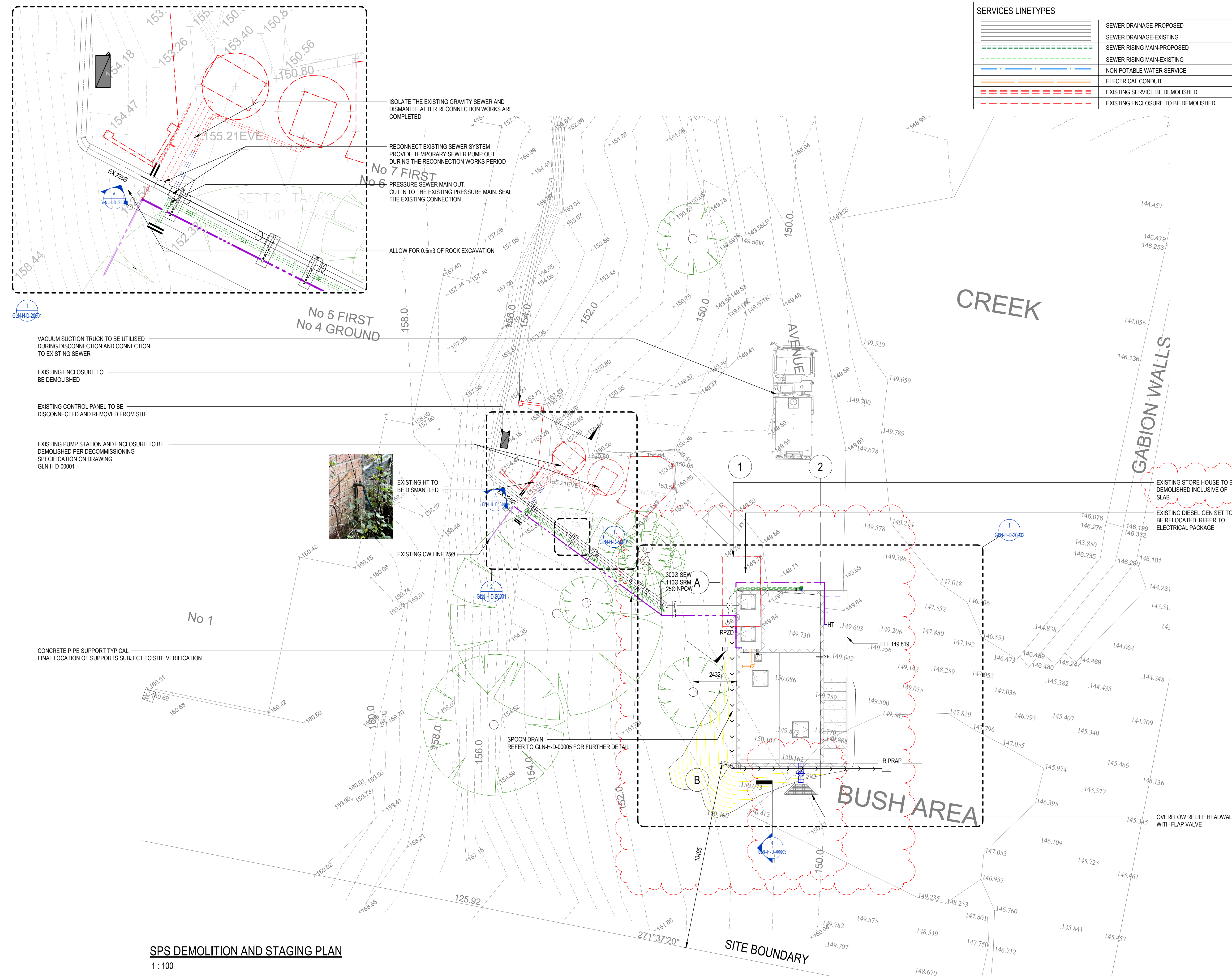
Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
SPS ELECTRICAL DEMOLITION AND STAGING PLAN

Scale
0 5M 1:100 @ A1

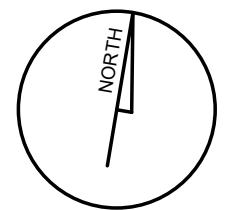
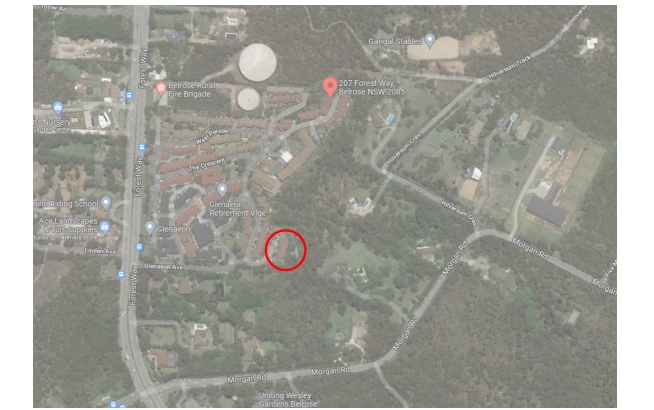
Drawn KN Checked KS Approved HW

Project Number S210157 Drawing Number GLN-E-D-20001 Revision D



SERVICES LINETYPES	
	SEWER DRAINAGE-PROPOSED
	SEWER DRAINAGE-EXISTING
	SEWER RISING MAIN-PROPOSED
	SEWER RISING MAIN-EXISTING
	NON POTABLE WATER SERVICE
	ELECTRICAL CONDUIT
	EXISTING SERVICE BE DEMOLISHED
	EXISTING ENCLOSURE TO BE DEMOLISHED

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Rev	Revision Description	Date
E	TENDER ADDENDUM	08/11/2022
D	TENDER ADDENDUM	04/04/2022
C	TENDER ISSUE	16/03/2022
B	ISSUED FOR DRAFT TENDER	09/03/2022
A	DRAFT SCHEMATIC DESIGN	27/01/2022

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Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
SPS DEMOLITION AND STAGING PLAN

Scale
0 5M 1:100
As indicated @ A1

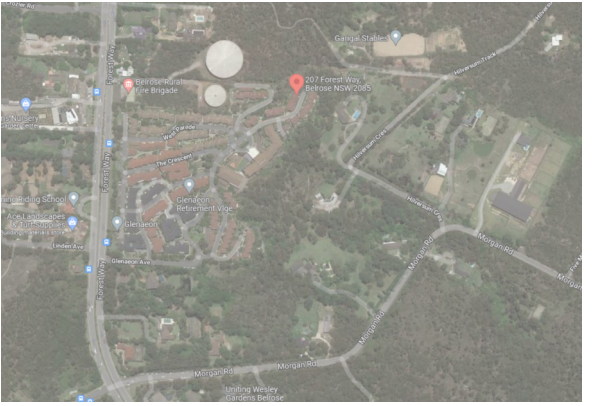
Drawn KN	Checked VP	Approved HW	Revision E
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Project Number
S210157

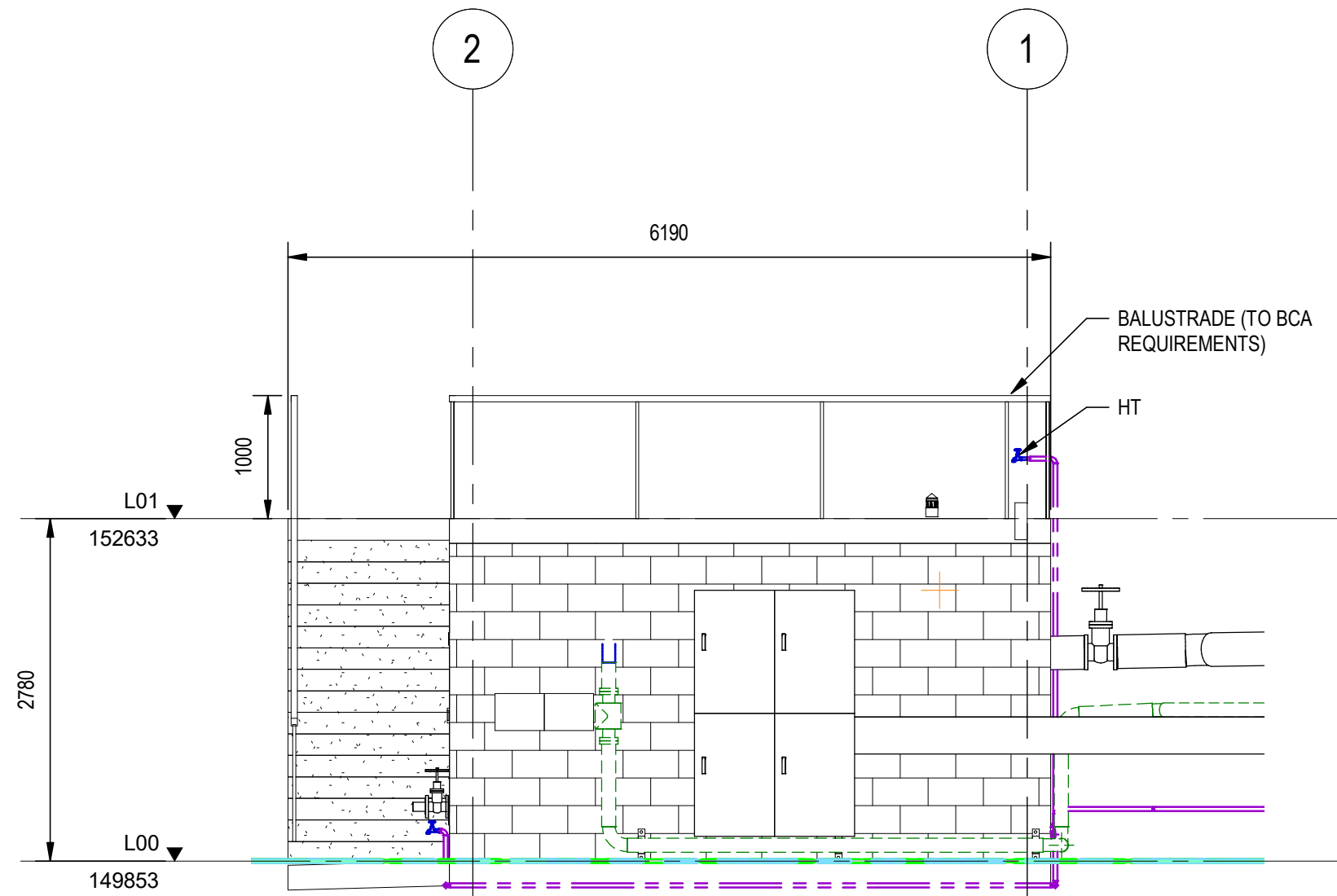
Drawing Number
GLN-H-D-20001

SPS DEMOLITION AND STAGING PLAN
1 : 100

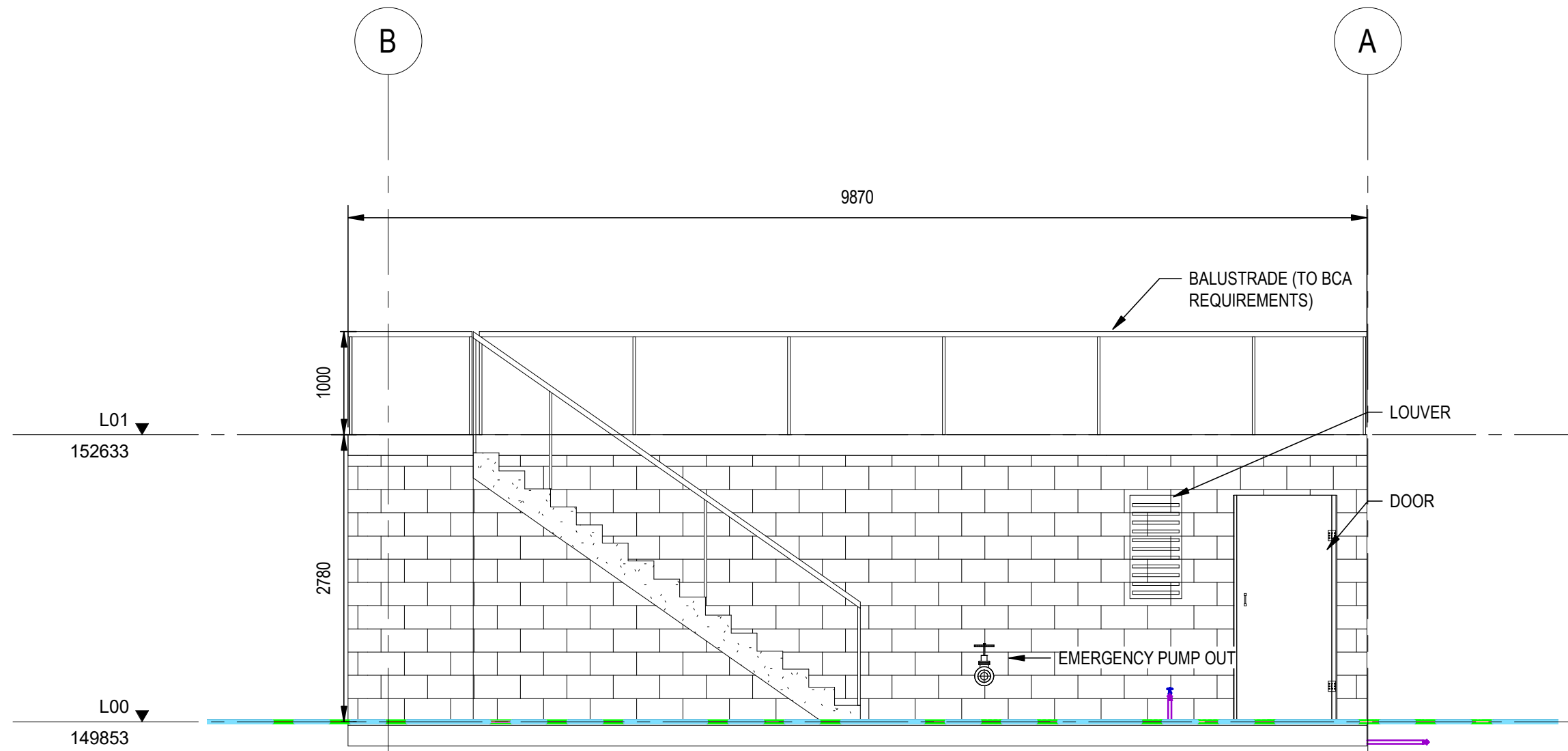
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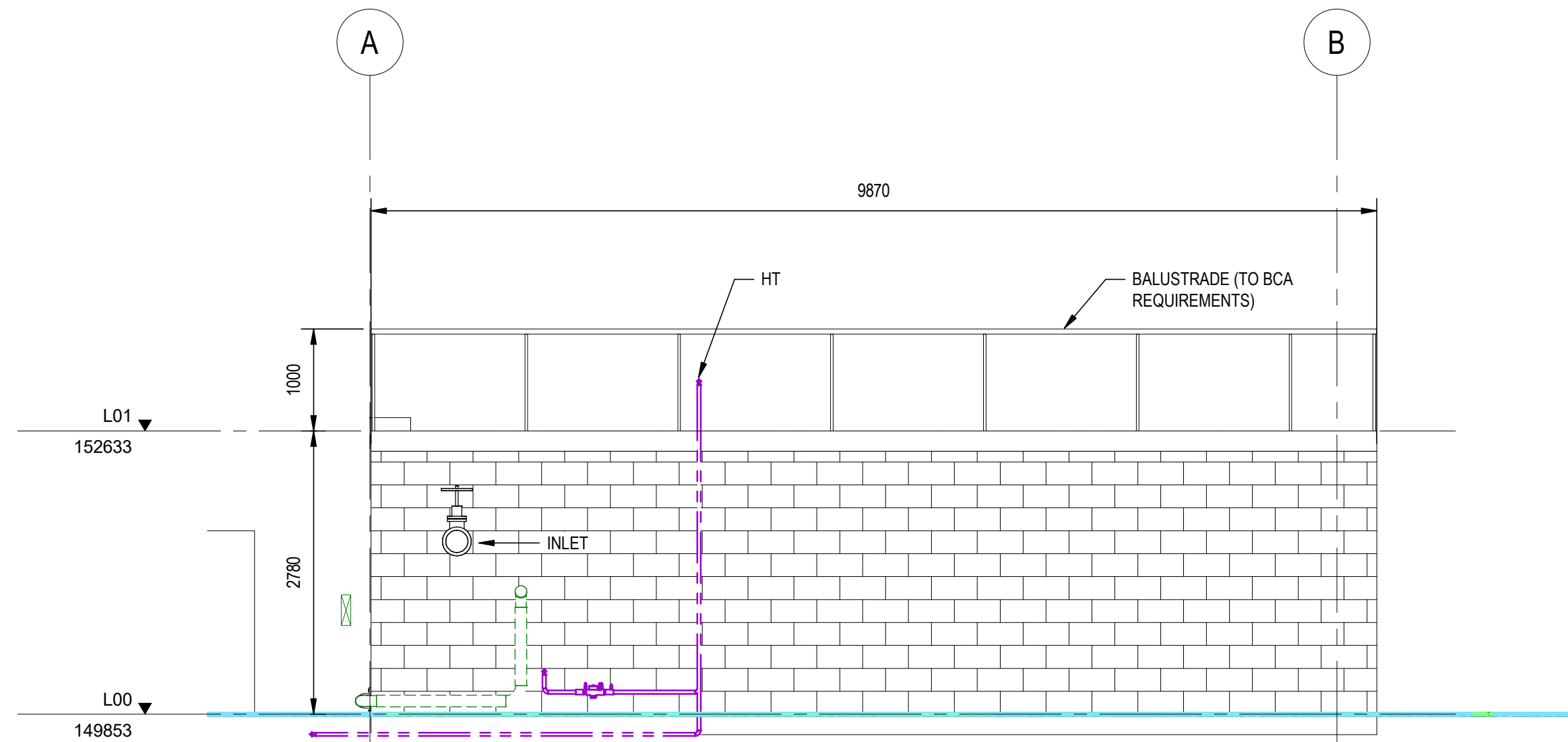
Key Plan



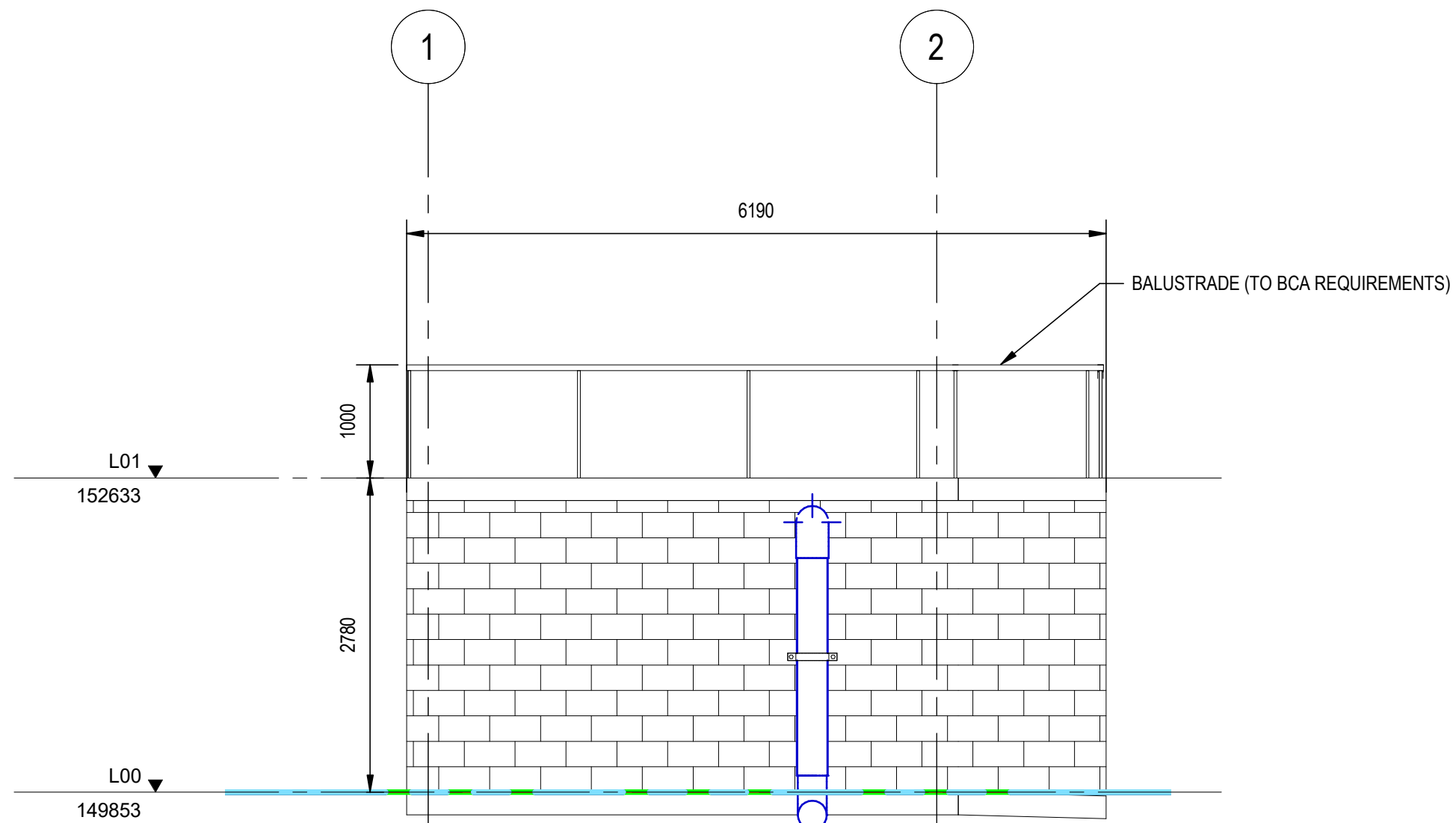
A - North Elevation
1 : 50



B - East Elevation
1 : 50



C - West Elevation
1 : 50



D - South Elevation
1 : 50

Rev	Revision Description	Date
A	TENDER ADDENDUM	13/05/2022

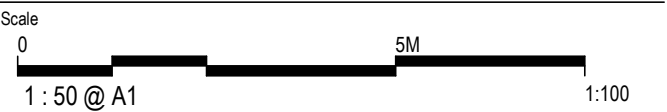
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Client
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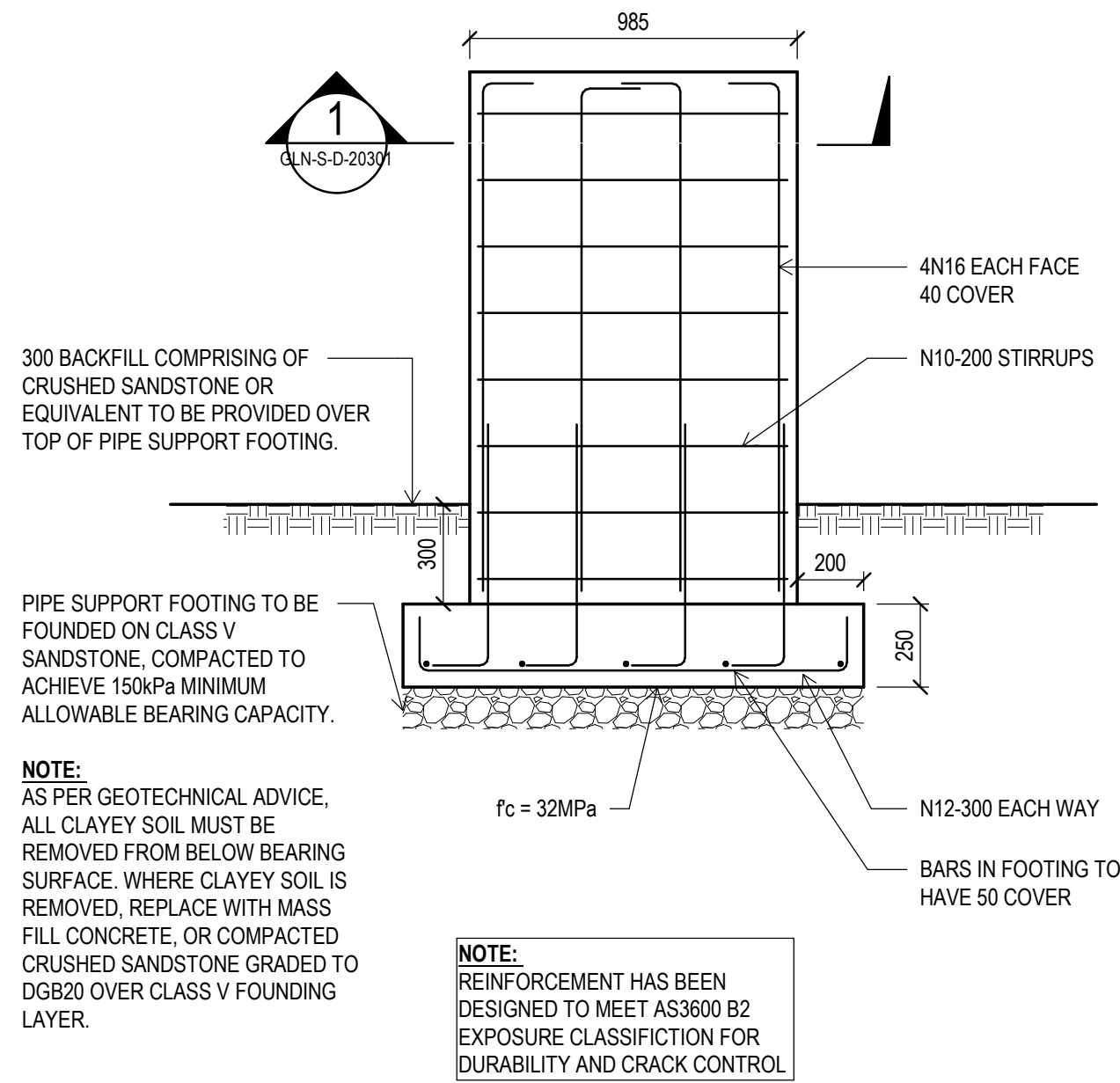
Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
ELEVATIONS

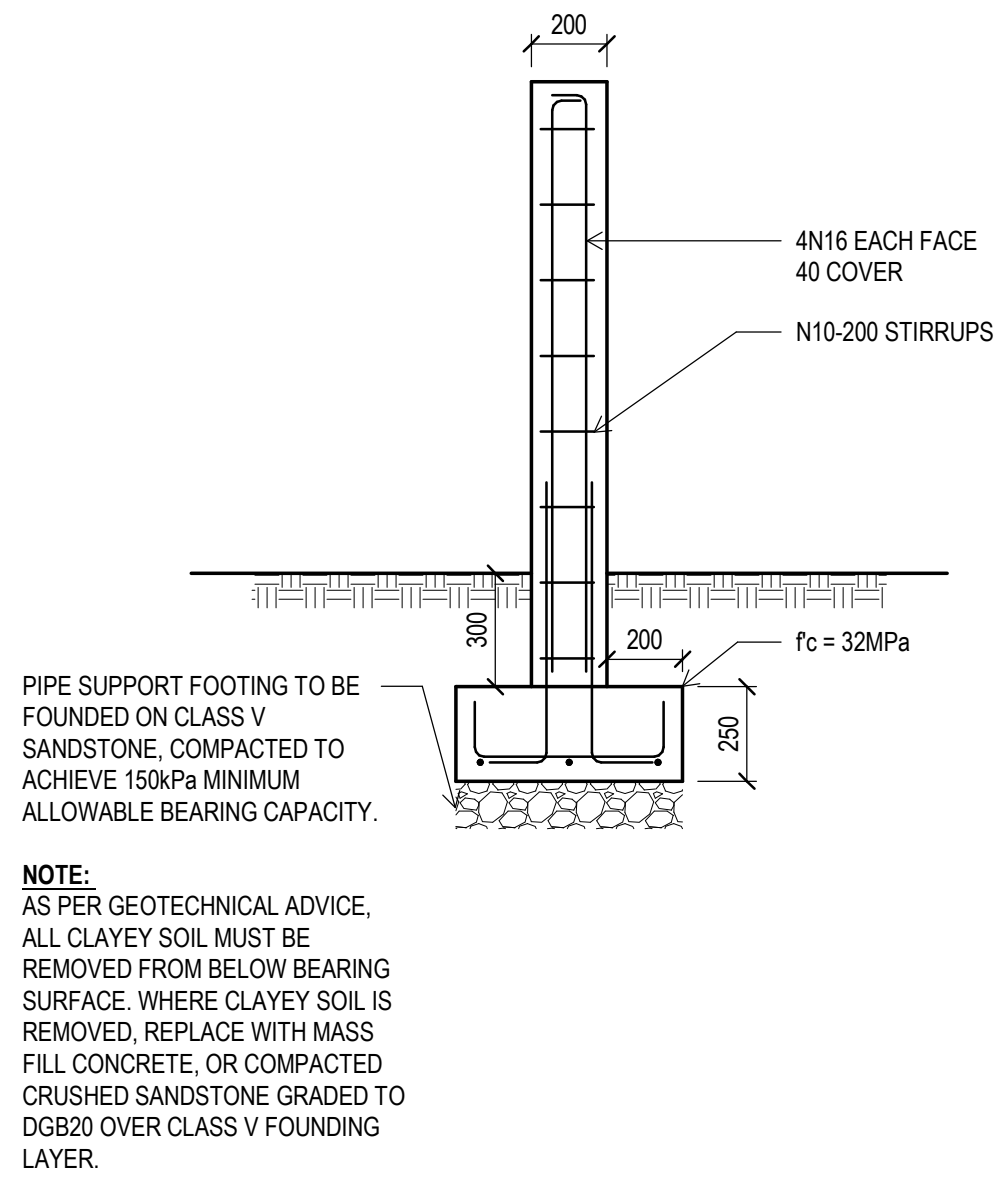


Drawn CC	Checked VP	Approved HW
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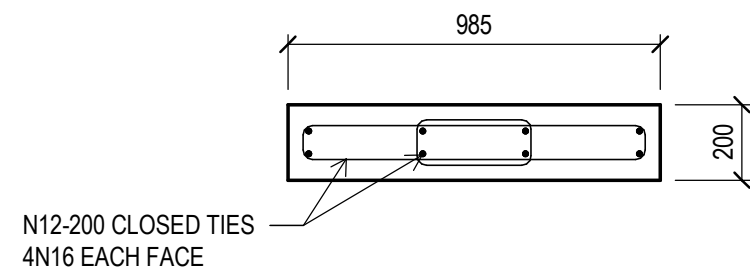
Project Number S210157	Drawing Number GLN-H-D-20005	Revision A
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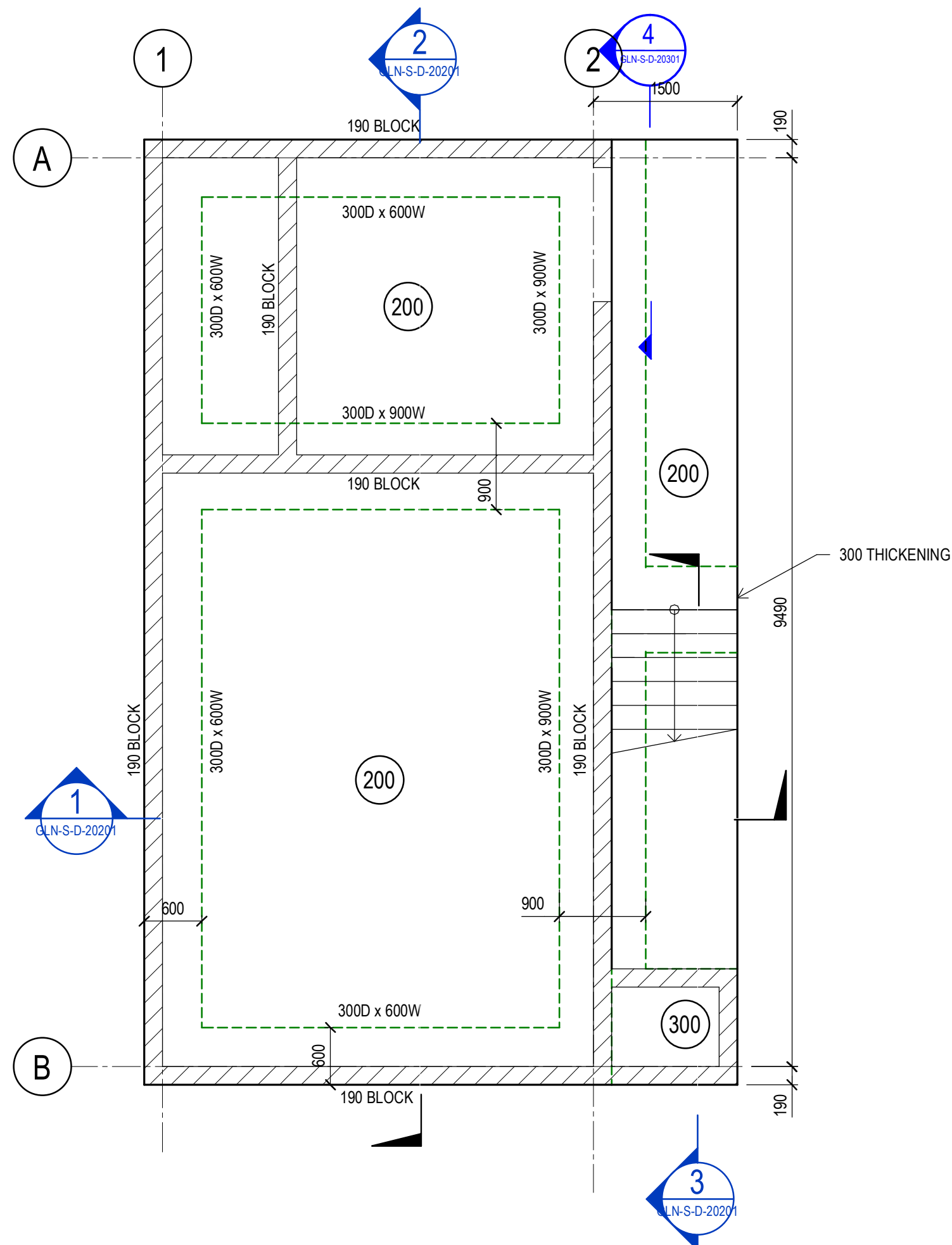
**PIPE SUPPORT COLUMN TYPICAL
ELEVATION LONG SIDE**
SCALE 1:20



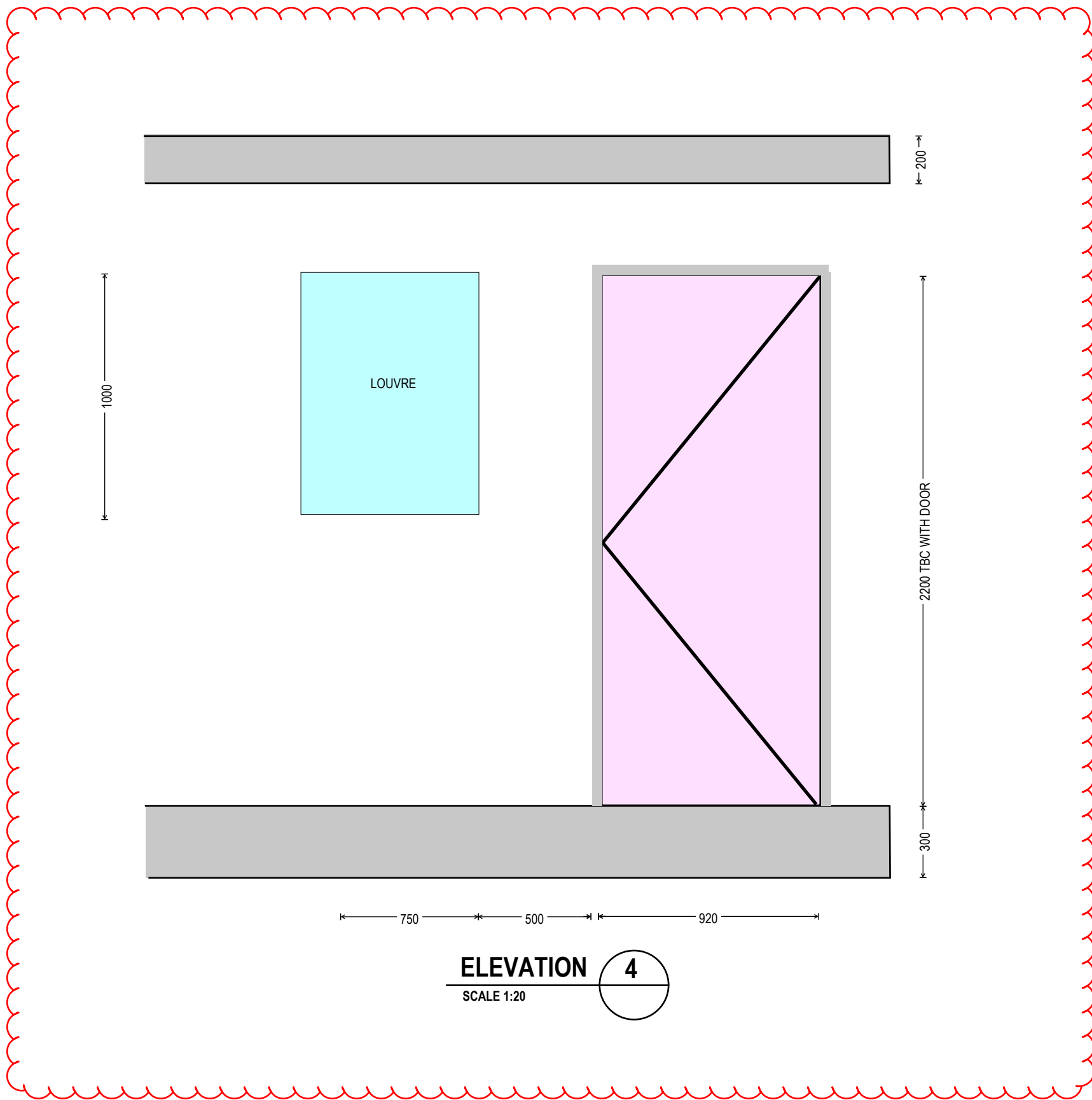
**PIPE SUPPORT COLUMN TYPICAL
ELEVATION SHORT SIDE**
SCALE 1:20



SECTION 1
SCALE 1:20

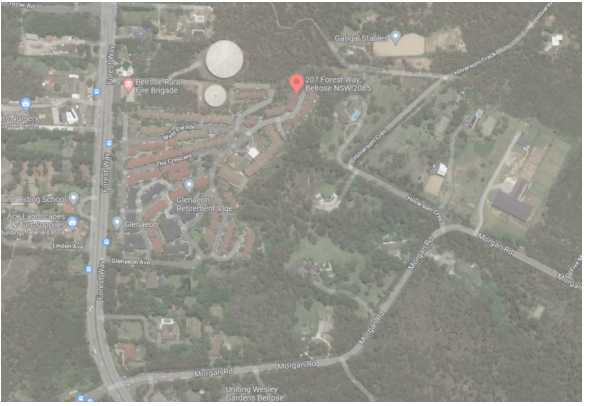


TANK SLAB GENERAL ARRANGEMENT
SCALE 1:50

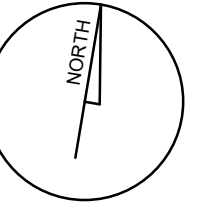


ELEVATION 4
SCALE 1:20

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Key Plan



Rev	Revision Description	Date
C	TENDER ADDENDUM	12.06.22
B	TENDER ADDENDUM	13.04.22
A	TENDER ISSUE	14.03.22

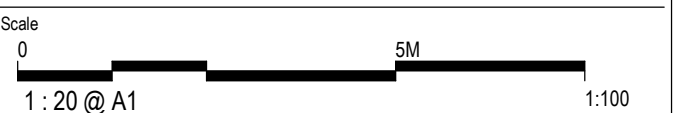
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Project
GLENAEON RETIREMENT LIVING - SPS UPGRADE PROJECT

Title
DETAILS SHEET 1



Drawn	Checked	Approved	Revision
LC	KD	HW	
Project Number	Drawing Number	Revision	
S210157	GLN-S-D-20301	C	