

TEMPUS STREET ROUSE HILL CIVIL ENGINEERING DRAWINGS PRELIMINARY CONCEPT DESIGN



LOCALITY PLAN
SCALE: NTS

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Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date

Scale 1:1 1:2 1:3 1:4 1:5 1:6 1:7 1:8

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Client
**FREECITY ROUSE HILL
DEVELOPMENT**

Title
COVER SHEET

Project
TEMPUS STREET ROUSE HILL

Date
08.03.25

Scale of A1
AS SHOWN

Drawn
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Designer
NLY

Design Checker
AJANG

Approved
AJANG

RBG Project No.
24378

NOT FOR CONSTRUCTION

Drawing Number
24378-RBG-XX-XX-DR-CV-80000

Revision
P02

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS OF THE HILLS SHIRE COUNCIL REQUIREMENTS, THE HILLS SHIRE COUNCIL ENGINEERING CONSTRUCTION SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- THESE ENGINEERING PLANS ARE TO BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND OTHER CONSULTANTS DOCUMENTATION ON THE PROJECT.
- THESE ENGINEERING PLANS HAVE BEEN PREPARED FROM INFORMATION AVAILABLE AT THE TIME OF ISSUE. AS THIS INFORMATION MAY BE THE SUBJECT OF CHANGE PRIOR TO OR DURING CONSTRUCTION THE CONTRACTOR IS TO ADVISE THE ENGINEER WHERE DISCREPANCIES OCCUR.
- THESE DRAWINGS SHALL NOT BE USED FOR FINAL SETOUT OF THE PROJECT UNLESS SPECIFICALLY STATED.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE HILLS SHIRE COUNCIL STANDARDS, GUIDELINES AND TECHNICAL MANUALS.
- ALL WORKS SHALL HAVE SMOOTH JUNCTIONS WITH EXISTING.
- ALL SURFACES SHALL BE EVEN GRADED AT MINIMUM 1% TO PREVENT SURFACE WATER PONDING.
- WHERE CERTIFICATION IS REQUIRED, INSPECTIONS ARE TO BE PERFORMED BY A DULY APPOINTED INSPECTOR FROM 'ROBERT BIRD GROUP'. THESE INSPECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH THE INSPECTION & TEST SCHEDULES PREPARED BY 'ROBERT BIRD GROUP.' THE INSPECTOR IS TO BE GIVEN A MINIMUM NOTICE AS DETAILED IN THE SPECIFICATIONS.
- ALL MATERIALS SHALL COMPLY WITH THE PROJECT DRAWINGS AND IN THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH ALL RELEVANT SERVICE AUTHORITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. A COPY OF THE LOCATIONS OF THE EXISTING SERVICES IS TO BE PROVIDED TO THE MANAGING CONTRACTOR BY THE SERVICES ENGINEER. CONTRACTOR TO NOTIFY MANAGING CONTRACTOR OF ANY POTENTIAL CLASHES.
- THE CONTRACTOR SHALL VERIFY OFFSET PEGS AND BENCHMARK LEVELS, AND ADVISE THE MANAGING CONTRACTOR OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE EXISTING LEVELS WHERE NEW WORKS ARE TO JOIN TO EXISTING WORKS, AND ADVISE THE MANAGING CONTRACTOR OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK OR OBTAIN ALL DIMENSIONS RELEVANT TO SETTING OUT OF SITE WORKS.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE WORKS AND ENSURE NO PART IS OVERSTRESSED. THE DESIGN AND CERTIFICATION OF ALL FORMWORK AND BACKPROPPING IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS TO OBTAIN DESIGN ADVICE FROM A SUITABLY QUALIFIED ENGINEER REGARDING DEMOLITION, RETROFITTING, TEMPORARY WORKS, HEALTH & SAFETY AND NUISANCE. THIS HAS BEEN REFERRED TO AS THE "CONTRACTORS ENGINEER" THROUGHOUT THE REMAINING NOTES.
- FORMWORK STRIPPING: UNLESS SPECIFIED OTHERWISE IN THE PROJECT DOCUMENTATION, MINIMUM STRIPPING TIMES FOR IN-SITU CONCRETE FORMWORK SHALL COMPLY WITH SECTION 5.4.3 (TABLE 5.4.1) OF AS3610 - FORMWORK FOR CONCRETE.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARDS AND BCA STATUTORY REQUIREMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT TOLERANCES ARE PROVIDED AND INTEGRATED THROUGHOUT ALL ELEMENTS OF THE WORKS.
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
- DESIGN LEVELS AND SETOUT DETAILED HEREIN ARE DERIVED FROM THE LANDSCAPE AND ARCHITECTURAL PLANS. CONTRACTOR SHALL CONFIRM LEVELS ARE COORDINATED PRIOR TO COMMENCING WORKS. EXISTING LEVELS ARE DERIVED FROM SURVEY DATA. CONTRACTOR TO CONFIRM ALL ON SITE PRIOR TO COMMENCING WORKS.

HEALTH & 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 ANY 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.

NUISANCE

- THE CONTRACTOR SHALL DEVELOP, IMPLEMENT, AND ADMINISTER A PLAN THAT WILL ENSURE THE MANAGEMENT OF NOISE AND VIBRATION RESULTING FROM CONSTRUCTION WORKS. REFER TO SPECIFICATIONS FOR REQUIRED LIMITS, OTHERWISE, CONTACT ENGINEER FOR GUIDANCE.
- THE CONTRACTOR WILL NEED TO ENSURE ALL ADJOINING PROPERTY REQUIREMENTS RELATING TO NOISE AND VIBRATION ARE MET.
- IF IT IS ESTABLISHED THAT THERE ARE NO SITE SPECIFIC REQUIREMENTS, THEN THE CONTRACTOR SHALL REFER TO MINIMUM REQUIREMENTS FOR ABATEMENT OF NOISE AND VIBRATION NOMINATED BY RELEVANT STATUTORY REQUIREMENTS
- THE CONTRACTOR WILL NEED TO PREPARE AND ADVISE ON MONITORING AND MANAGEMENT OF NOISE AND VIBRATION BASED ON PROFESSIONAL ADVICE FROM SUITABLY QUALIFIED PERSON OR PERSONS.

SURVEY NOTES

- THE SURVEY INFORMATION SHOWN ON ROBERT BIRD GROUP DRAWINGS HAS BEEN OVERLAID FROM INFORMATION PROVIDED IN THE SURVEY BY LITS, REF: 51666 00SDT DATED 30.09.24. ROBERT BIRD GROUP DO NOT GUARANTEE THAT THE SURVEY INFORMATION IS ACCURATE, AND ACCEPTS NO LIABILITY FOR INACCURACIES.

SEDIMENT AND EROSION CONTROL NOTES

- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED IN ACCORDANCE WITH SPECIFICATION AND EPA "MANAGING URBAN STORMWATER CONSTRUCTION ACTIVITIES" 1998. ALL WORKS SHALL BE COMPLETED PRIOR TO CONSTRUCTION COMMENCING.

- REFER TO ROBERT BIRD GROUP'S DRAWING SHEETS 24378-RBG-XX-XX-DR-CV-81001 AND 24378-RBG-XX-XX-DR-CV-81101 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR FURTHER INFORMATION.

EARTHWORKS NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, COMPACTION AND DISPOSAL OF ALL EXCAVATED MATERIAL.
- ALL EARTHWORKS AREAS ARE TO BE LEFT IN A FREE DRAINING STATE.
- PROOF ROLL SUBGRADE TO REVEAL SOFT SPOTS. SOFT SPOTS TO BE REMOVED AND BACKFILLED. ALL NATURAL SUBGRADE IS TO BE COMPACTED TO IN ACCORDANCE WITH AS1289 PRIOR TO PLACEMENT OF FILL MATERIAL.
- MATERIAL WON FROM THE SITE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO USE AS FILL. ALL FILL TO BE COMPACTED TO MIN. 98% STANDARD COMPACTION IN 200mm MAXIMUM THICK LAYERS IN ACCORDANCE WITH AS1289.
- TEST CERTIFICATES ON THE FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL.

TEMPORARY WORKS

- THE CONTRACTOR SHALL ALLOW FOR 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 "CONTRACTORS ENGINEER". TO DESIGN INSPECT AND CERTIFY ALL TEMPORARY WORKS, AND DEMOLITION WORKS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE OVERALL STABILITY OF THE STRUCTURES WHILST UNDER CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ADVICE FROM THE CONTRACTORS ENGINEER.

CONCRETE NOTES

- GENERAL**
- CONCRETE WORK SHALL BE IN ACCORDANCE WITH AS3600 AND WITH THE PROJECT SPECIFICATIONS.
 - CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON SUPERINTENDENT DRAWINGS OR SPECIFICALLY APPROVED BY SUPERINTENDENT.
 - ALL THICKNESSES SHOWN ARE MINIMUM STRUCTURAL REQUIREMENTS, NO REDUCTION IN THICKNESS DUE TO FALLS OR TOPPING IS PERMITTED.
 - UNLESS A GROOVE LINE ALLOWANCE HAS BEEN NOTED ON THE DRAWINGS, NO GROOVE LINES ARE PERMITTED, EXCEPT AT SLAB LINES. ALL GROOVE LINES ARE TO BE SUBMITTED TO 'ROBERT BIRD GROUP' FOR APPROVAL.
 - THE FACE OF ALL CONCRETE AGAINST WHICH NEW CONCRETE IS TO BE CAST IS TO BE THOROUGHLY MECHANICALLY SCABBLED, FULLY EXPOSING THE AGGREGATE MATRIX.

CONCRETE

- THE CHARACTERISTIC COMPRESSIVE STRENGTH (f'c) AT 28 DAYS OF IN PLACE CONCRETE SHALL BE AS NOTED IN THE SPECIFICATION OR OTHERWISE NOTED ON THE DRAWINGS
- MAXIMUM AGGREGATE SIZE.....20mm
- SLUMP.....80mm
- ALL CONCRETE SHALL BE VIBRATED.
- ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE SPECIFICATION
- ALL CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AS1012 AND THE PROJECT SPECIFICATION.
- ALL FORM WORK SHALL COMPLY WITH AS3610
- REFER STRUCTURAL ENGINEER'S SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

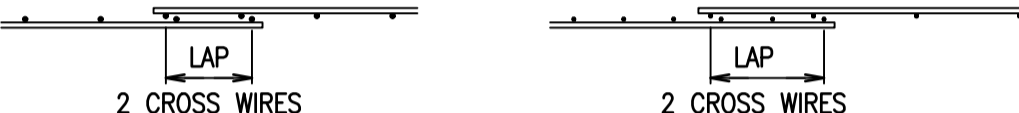
REINFORCEMENT

- REINFORCEMENT IS TO BE MANUFACTURED IN ACCORDANCE WITH AS4671 AND SHALL BE FIXED AS SHOWN ON DRAWINGS.
- MATERIAL IS INDICATED BY THE FOLLOWING SYMBOLS:-
 Y DEFORMED BAR GRADE 400
 N DEFORMED BAR GRADE 500 (NORMAL DUCTILITY)
 R PLAIN ROUND BAR GRADE 250
 W PLAIN WIRE GRADE 450
 SL SQUARE FABRIC GRADE 500
 RL RECTANGULAR FABRIC GRADE 500
- THE BAR SIZE IS INDICATED BY A NUMBER AFTER THE SYMBOL, WHICH INDICATES THE BAR DIAMETER IN MILLIMETRES.
- REINFORCEMENT SPACING NOMINATED ON DRAWINGS IS TO ASSIST SCHEDULER AND STEEL FIXER TO ASSESS TOTAL NUMBER OF BARS REQUIRED. WHERE BARS PLACED IN ACCORDANCE WITH SPACING NOMINATED FOUL WITH OTHER STRUCTURAL REQUIREMENTS, PREFERENCE IS TO BE GIVEN TO RELOCATING BARS BY LOCALLY ADJUSTING SPACING TO ENABLE ASSEMBLY OF REINFORCEMENT TO BE COMPLETED. ENGINEER IS TO BE CONTACTED IN THE EVENT THAT REINFORCEMENT IS NEEDED TO BE CUT ON SITE PRIOR TO CONTINUING.
- LAP LENGTHS TO REINFORCEMENT BARS TO BE AS NOTED ON THE RELEVANT DRAWINGS.
- WELDING OF REINFORCEMENT BARS IS NOT PERMITTED UNLESS APPROVED.

CONCRETE NOTES CONTINUED REINFORCEMENT CONTINUED

- COVER SHALL BE AS NOTED ON THE RELEVANT DRAWINGS.
- CONCRETE COVERS NOTED ARE MEASURED FROM THE FORM WORK OR GROUND FACE TO THE OUTERMOST REINFORCEMENT COMPONENT. i.e.. IN COLUMNS AND BEAMS TO THE OUTSIDE OF TIES OR LIGATURES.
- COVER TO BE MAINTAINED DURING POURING BY THE USE OF PLASTIC CHAIRS OR PLASTIC TIPPED METAL CHAIRS.
- WHERE NO REINFORCEMENT IS SHOWN ON THE DRAWING AT RIGHT ANGLES TO THE MAIN REINFORCEMENT DISTRIBUTION REINFORCEMENT IS TO BE PROVIDED.
- BENDING & STRAIGHTENING
 COLD BENDING: BARS CANNOT BE COLD BENT WITHOUT PRIOR APPROVAL FROM THE PROJECT STRUCTURAL ENGINEER. CORRECT MINIMUM DIAMETER FORMERS ARE TO BE USED IN ACCORDANCE WITH AS3600.
 HOT BENDING: HOT BENDING MAY ONLY BE CONDUCTED WITH THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER. HOT BENDING CAN ONLY BE PERFORMED BY A CERTIFIED WELDER. TEST CERTIFICATE OF AFFECTED AREA TO BE OBTAINED.
 STRAIGHTENING: WHEN RE-STRAIGHTENING PARTIALLY EMBEDDED BARS, DO NOT BEND OVER FORMERS OF SMALLER DIAMETER THAN PERMITTED IN AS 3600. DO NOT SUBJECT REINFORCEMENT BARS TO IMPACT IN ORDER TO STRAIGHTEN.

SLAB ON GROUND NOTES

- SLAB ON GROUND TO BE POURED ON A LAYER OF POLYETHYLENE SHEETING 200µm THICK ON TOP OF 50mm OF BEDDING SAND. JOINTS TO BE TAPED
- FABRIC TO BE PLACED ON CHAIRS AT 800 x 800 CENTRES AND CHAIRS TO BE PLACED ON STEEL PANS.
- LAP FABRIC REINFORCEMENT THUS:

- WHERE BEDDING SAND IS REQUIRED UNDER SLAB, THIS SHALL BE COMPACTED SUFFICIENTLY TO SUPPORT REINFORCEMENT PLUS 100kg/CHAIR WITHOUT VERTICAL DISPLACEMENT EXCEEDING 5mm.

ROADS AND PAVEMENT NOTES

GENERAL

- PAVEMENT SHALL BE BOXED OUT TO THE DEPTHS HAS SHOWN ON THE PAVEMENT DRAWINGS, AND SUBGRADE TESTING IS TO BE UNDERTAKEN. SUBGRADE TESTING RESULTS ARE TO BE FORWARDED TO THE ENGINEER (ROBERT BIRD GROUP) FOR DETERMINATION OF FINAL PAVEMENT DEPTH. PAVEMENT CONSTRUCTION IS TO HOLD UNTIL FINAL PAVEMENT DEPTH HAS BEEN DETERMINED BY THE ENGINEER, AND APPROVED BY THE RELEVANT AUTHORITY.
- THE CONTRACTOR IS TO TEST AND PROVIDE EVIDENCE THAT THE EXISTING SUBGRADE EXCEEDS CBR THE DESIGN CBR TESTING IS TO BE CARRIED OUT BY A NATA ACCREDITED LABORATORY PRIOR TO ANY PAVEMENT WORK COMMENCING.

PREPARATION OF SELECT SUBGRADE LAYERED

- THE SELECT SUBGRADE LAYER IS DEFINED AS THE UPPER 300MM OF THE FORMATION UPON WHICH THE ROAD PAVEMENT IS TO BE CONSTRUCTED. THE UPPER SURFACE OF THE SUBGRADE LAYER IS DEFINED AS THE DESIGN SUBGRADE LEVEL.
- THE SELECT SUBGRADE LAYER SHALL BE FREE FROM ALL POCKETS OF SOFT COMPRESSIBLE MATERIAL, FREE FROM STONE WITH A MAXIMUM DIMENSION LARGER THAN 50MM, AND HAVE A MINIMUM SOAKED CBR AS SPECIFIED ON DRAWINGS.
- ANY UNSUITABLE LAYER SHALL BE COMPACTED TO A FIELD DRY DENSITY OF NOT LESS THAN 100% AS DETERMINED IN ACCORDANCE WITH RMS TEST METHOD T111 - STANDARD COMPACTION (FOR A COHESIVE SOIL) OR A MINIMUM DENSITY INDEX OF 80% WHEN TESTED IN ACCORDANCE WITH AS.1289.5.6.1 (FOR A COHESIVE LESS SOIL)
- TESTS FOR COMPACTION OF SELECTED SUBGRADE LAYER SHALL BE CARRIED OUT BY THE CONTRACTOR AT LOCATION APPROVED BY THE SUPERINTENDENT AT A RATE AS SPECIFIED.

PLACEMENT OF PAVEMENT MATERIALS

- THE PAVEMENT SHALL BE CONSTRUCTED TO THE THICKNESS AS SHOWN ON THE DRAWINGS. PAVEMENT COURSES MORE/ GREATER THAN 150mm IN COMPACTED THICKNESS SHALL BE SPREAD AND COMPACTED IN TWO OR MORE LAYERS OF NOT LESS THAN 75mm IN COMPACTED THICKNESS.
- SPREADING SHALL BE UNDERTAKEN BY A METHOD THAT WILL ENSURE THAT SEGREGATION DOES NOT OCCUR.
- MIXING OR BLENDING OF PAVEMENT MATERIALS WILL NOT BE ALLOWED ON THE ROAD FORMATION. PAVEMENT MATERIAL SHALL NOT BE SPREAD ON A WATERLOGGED SUBGRADE NOR BROKEN ON THE SUBGRADE. WHEN SPREADING AND/OR MIXING PAVEMENT MATERIAL, CARE SHALL BE TAKEN TO ENSURE THAT THE SUBGRADE SHALL NOT BE DISTURBED, BECOME RUTTED OR MIXED WITH THE PAVEMENT MATERIALS.
- IF, AT ANY TIME ANY PART OF SUBGRADE AND PAVEMENT MATERIALS BECOME MIXED, THE CONTRACTOR SHALL, AT ITS COST, REMOVE THE MIXTURE AND RESHAPE THE SUBGRADE WITH APPROVED MATERIAL COMPACTED UNIFORMLY WITH THE SURROUNDING SURFACE.
- WHEN EACH LAYER OF PAVEMENT MATERIAL HAS BEEN SPREAD, WATERING SHALL BE CARRIED OUT AS NECESSARY TO MAINTAIN THE MATERIAL AT A MOISTURE CONTENT DURING ROLLING AS CLOSE TO BUT NOT EXCEEDING ITS OPTIMUM MOISTURE CONTENT.
- WHERE THE MOISTURE CONTENT OF PAVEMENT MATERIAL IS INSUFFICIENT, WATER SHALL BE ADDED BY APPROVED WATERING EQUIPMENT AND SHALL BE MIXED UNIFORMLY WITH THE MATERIAL BY AN APPROVED MECHANICAL DEWEE.
- WHERE THERE IS EXCESS MOISTURE IN THE PAVEMENT MATERIAL, IT SHALL BE DRIED TO THE REQUIRED MOISTURE CONTENT BY LOOSENING AND AERATING.

COMPACTION OF PAVEMENT MATERIALS

- AS EACH LAYER IS BROUGHT TO IT OPTIMUM MOISTURE CONTENT, IT SHALL BE IMMEDIATELY COMPACTED BY ROLLING.
- COMPACTION SHALL BE CARRIED OUT USING APPROVED EQUIPMENT OF ADEQUATE CAPACITY TO ACHIEVE THE DEGREE OF COMPACTION SPECIFIED.
- ANY DEFICIENCIES MADE BY THE SINKING OF THE COMPACTOR WHEN COMPACTING MATERIAL SHALL AT ONCE BE MADE GOOD BY SCARIFYING THE SURFACE AND ADDING ADDITIONAL MATERIAL AT THE CONTRACTOR'S EXPENSE.
- ON THE SECTION OF PAVEMENT HAVING A ONE-WAY CROSS FALL, COMPACTION SHALL COMMENCE AT THE LOWER EDGE OF THE BASE AND PROGRESS UPWARDS TO THE HIGHER EDGE.
- ON CROWNED SECTION OF PAVEMENT, COMPACTION SHALL COMMENCE AT THE OUTER EDGES OF THE BASE AND PROGRESS INWARDS TOWARDS THE CROWN.
- EACH PASS OF THE COMPACTION PLANT SHALL BE PARALLEL TO THE CENTRE LINE OF THE PAVEMENT. THE METHOD OF COMPACTION SHALL ALLOW FOR PROGRESSIVE AND UNIFORM OVERLAP BETWEEN PASSES.
- IF NON-VIBRATING SMOOTH-WHEELED ROLLERS ARE USED AS COMPACTION PLANT. THEY SHALL BE OPERATED WITH THE DRIVING ROLLERS FACING THE UNCOMPACTED MATERIAL DURING THE INITIAL PASS.
- IF VIBRATING ROLLERS ARE USED AS COMPACTION PLANT, THE VIBRATOR SHALL NOT BE ACTIVATED UNTIL A MINIMUM OF TWO "STATIC" PASSES HAVE BEEN MADE. IN ADDITION, THE VIBRATORS SHALL NOT BE ACTIVATED DURING ANY CHANGE IN DIRECTION OF THE ROLLER.
- COMPACTION PLANT AND OTHER ANCILLARY PLANT SHALL NOT BE ALLOWED TO REMAIN STANDING ON THE COMPACTED PAVEMENT WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
- TRAFFIC SHALL NOT BE ALLOWED ON ANY COMPACTED LAYER WITHOUT APPROVAL OF THE SUPERINTENDENT. EACH LAYER IN A MULTI-LAYERED COURSE SHALL BE FULLY COMPACTED IN SEQUENCE. THE SURFACE OF THE COMPACTED LAYER SHALL BE KEPT SUFFICIENTLY MOIST TO MAINTAIN THE REQUIRED FIELD MOISTURE CONTENT THROUGHOUT THE FULL DEPTH OF THE LAYER PRIOR TO PLACEMENT OF SUBSEQUENT LAYERS OR TO THE APPLICATION OF THE SURFACE PRIMER, AS APPLICABLE.
- COMPACTION SHALL CONTINUE UNTIL THE MATERIAL DOES NOT CREEP OR WAVE AHEAD OF THE ROLLER, UNTIL THE SURFACE PRESENTS A SMOOTH UNIFORM APPEARANCE AND UNTIL THE MATERIAL HAS BEEN LEVELED AND COMPACTED TO THE REQUIREMENTS AND TOLERANCES SPECIFIED ELSEWHERE HEREIN.
- TESTS FOR COMPACTION OF ROAD PAVEMENT MATERIALS SHALL BE CARRIED OUT BY THE CONTRACTOR AT LOCATIONS APPROVED BY THE SUPERINTENDENT AT A RATE AS SPECIFIED.

STORMWATER DRAINAGE NOTES

- THESE NOTES SHALL BE READ IN CONJUNCTION WITH:
 A. GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT
 B. ROADWORKS NOTES FOR THE PROJECT
 C. SPECIFICATIONS FOR THE PROJECT.
- STORMWATER PIPES 375NB AND GREATER SHALL BE RCP R/RJ, U.N.O. CLASSES AS NOTED ON THE DRAWINGS. FRC PERMITTED.
- STORMWATER DRAINAGE PIPES LESS THAN OR EQUAL TO 900mm DIAMETER SHALL BE SPIGOT AND SOCKET AND RUBBER RING JOINTED.
- OUTLET LOCATIONS ARE TO BE CONFIRMED ON SITE BY THE MANAGING CONTRACTOR PRIOR TO THE COMMENCEMENT OF STORMWATER DRAINAGE CONSTRUCTION.
- ALL PROPOSED STORMWATER WORKS DESIGNED IN ACCORDANCE WITH
 A. AUSTRALIAN RAINFALL AND RUNOFF (1987 EDITION) VOLUMES 1 AND 2.
 B. AS 3500 NATIONAL PLUMBING CODE PART 3 - STORMWATER DRAINAGE.
 C. THE HILLS SHIRE COUNCIL DCP.

ROAD SIGNAGE & LINE MARKING NOTES

- ALL SIGNS AND LINEMARKING SHALL BE TO RMS STANDARDS, SPECIFICATIONS AND AS1742.

SERVICE NOTES

- ALL EXISTING SERVICES LIDS THAT ARE TO REMAIN ARE TO BE RECONSTRUCTED TO MATCH PROPOSED LEVELS.

HYDRAULICS NOTES

- REFER TO HYDRAULIC ENGINEERS DRAWINGS FOR SEWER, WATER AND INTERNAL SITE STORMWATER DRAINAGE WORKS.

Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25


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Scale	11	12	13	14	15	16	17	18

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Client

FREECITY ROUSE HILL DEVELOPMENT

Title



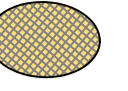











GENERAL NOTES

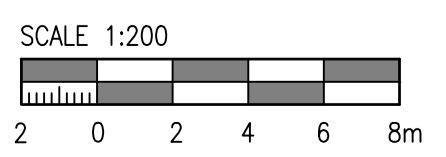
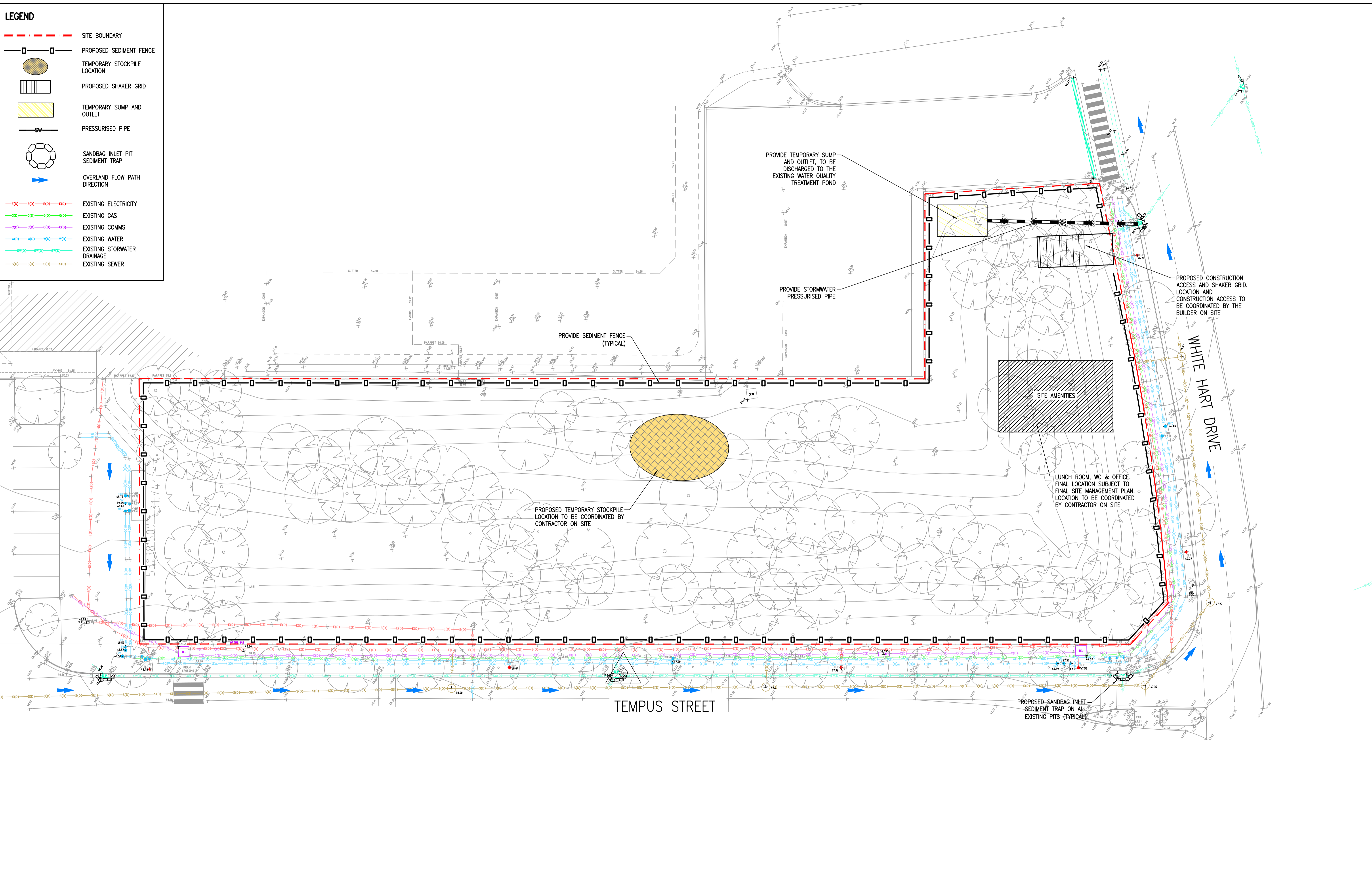
Project

TEMPUS STREET ROUSE HILL

Date	Drawn	Design Checker
08.03.25	MARELLANO	ALANG
Scale of A1	Designer	Approved
NTS	NLY	ALANG
		RBG Project No.
		24378
NOT FOR CONSTRUCTION		
Drawing Number	Revision	
24378-RBG-XX-XX-DR-CV-80001	P02	

LEGEND

-  SITE BOUNDARY
-  PROPOSED SEDIMENT FENCE
-  TEMPORARY STOCKPILE LOCATION
-  PROPOSED SHAKER GRID
-  TEMPORARY SUMP AND OUTLET
-  PRESSURISED PIPE
-  SANDBAG INLET PIT SEDIMENT TRAP
-  OVERLAND FLOW PATH DIRECTION
-  EXISTING ELECTRICITY
-  EXISTING GAS
-  EXISTING COMMS
-  EXISTING WATER
-  EXISTING STORWATER DRAINAGE
-  EXISTING SEWER



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24

Rev	Revision Description	By	App	Date

Scale 11 12 13 14 15 16 17 18

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Client
FREECITY ROUSE HILL DEVELOPMENT

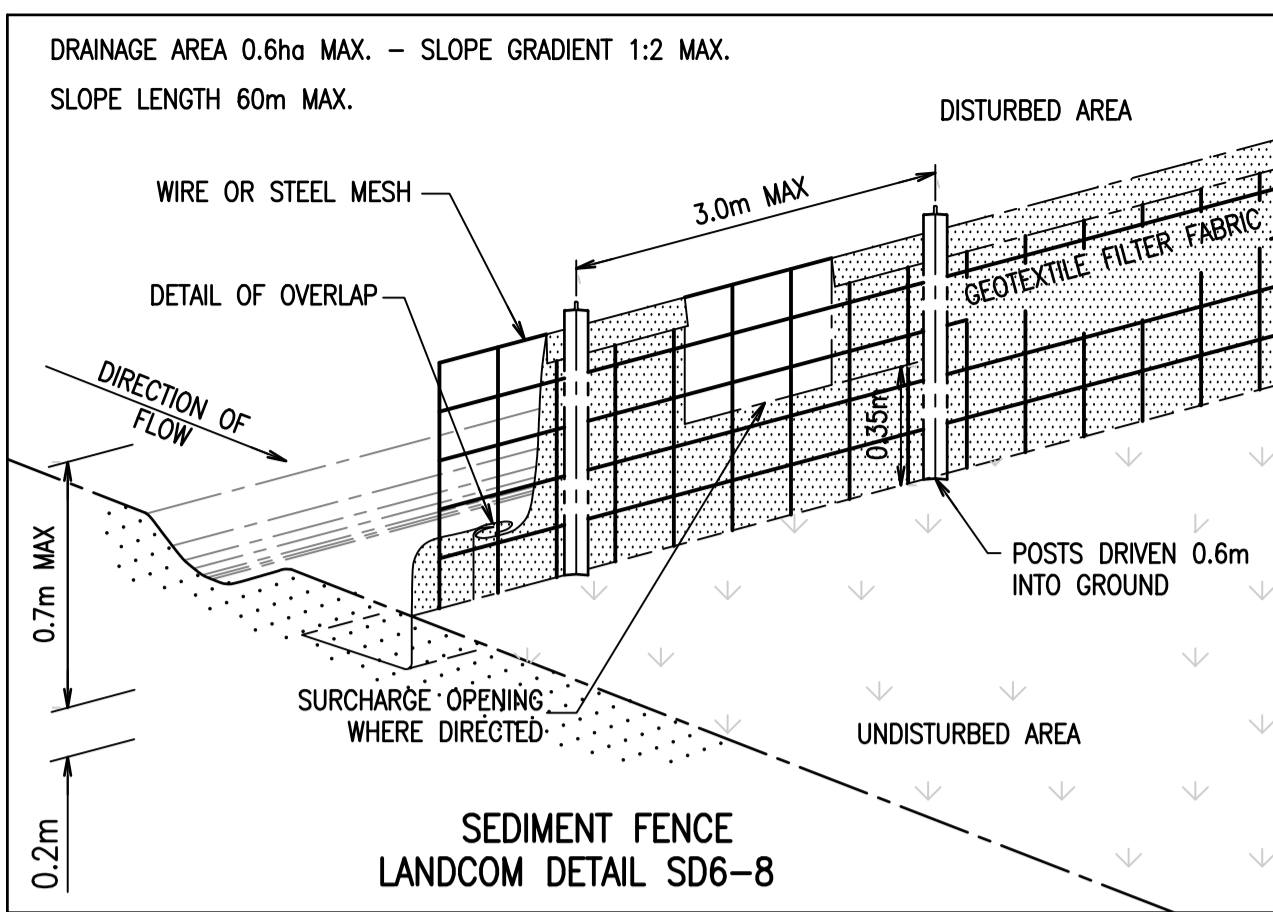
Title
EROSION AND SEDIMENT CONTROL PLAN

Project
TEMPUS STREET ROUSE HILL

Date 20.12.24	Drawn MARELLANO	Design Checker AJANG
Scale of A1 1:200	Designer NLY	Approved AJANG
Drawing Number 24378-RBG-XX-XX-DR-CV-81001		Revision P01

NOT FOR CONSTRUCTION

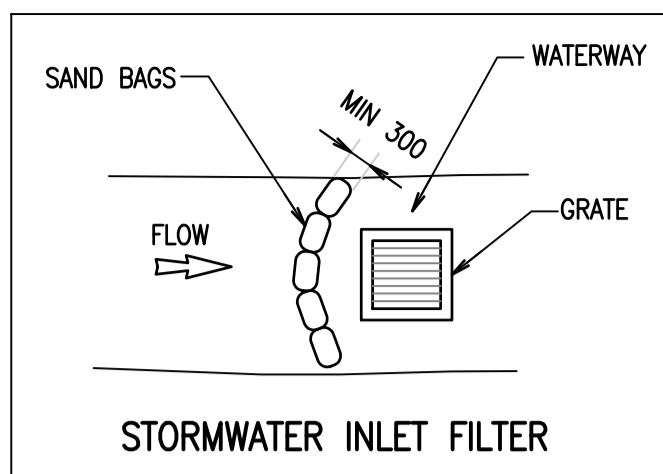
RBG Project No.
24378



INSTALLATION

1. EXCAVATE A TRENCH 200mm DEEP.
2. DRIVE POSTS 500-700mm INTO GROUND AT A MAXIMUM SPACING OF 3.0m CENTRES.
3. PLACE AND FIX SUPPORT MESH (F52) TO POST.
4. LAY BIDIM GEOTEXTILE (SF 2000) AGAINST THE SUPPORT MESH AND FIX BY TIE WIRE, STAPLES OR HOG RINGS.
5. PLACE BIDIM IN TRENCH AND BACKFILL WITH SOIL.

NOTE:
POSITION OF SEDIMENT FENCE AS DIRECTED BY MANAGING CONTRACTOR. FENCE TO REMAIN IN PLACE UNTIL EXCAVATION IS BELOW FOOTPATH LEVEL. PROVIDE 2m x 2m TURFED AREA ON DOWNSTREAM SIDE OF FENCE AT SURCHARGE OPENINGS.

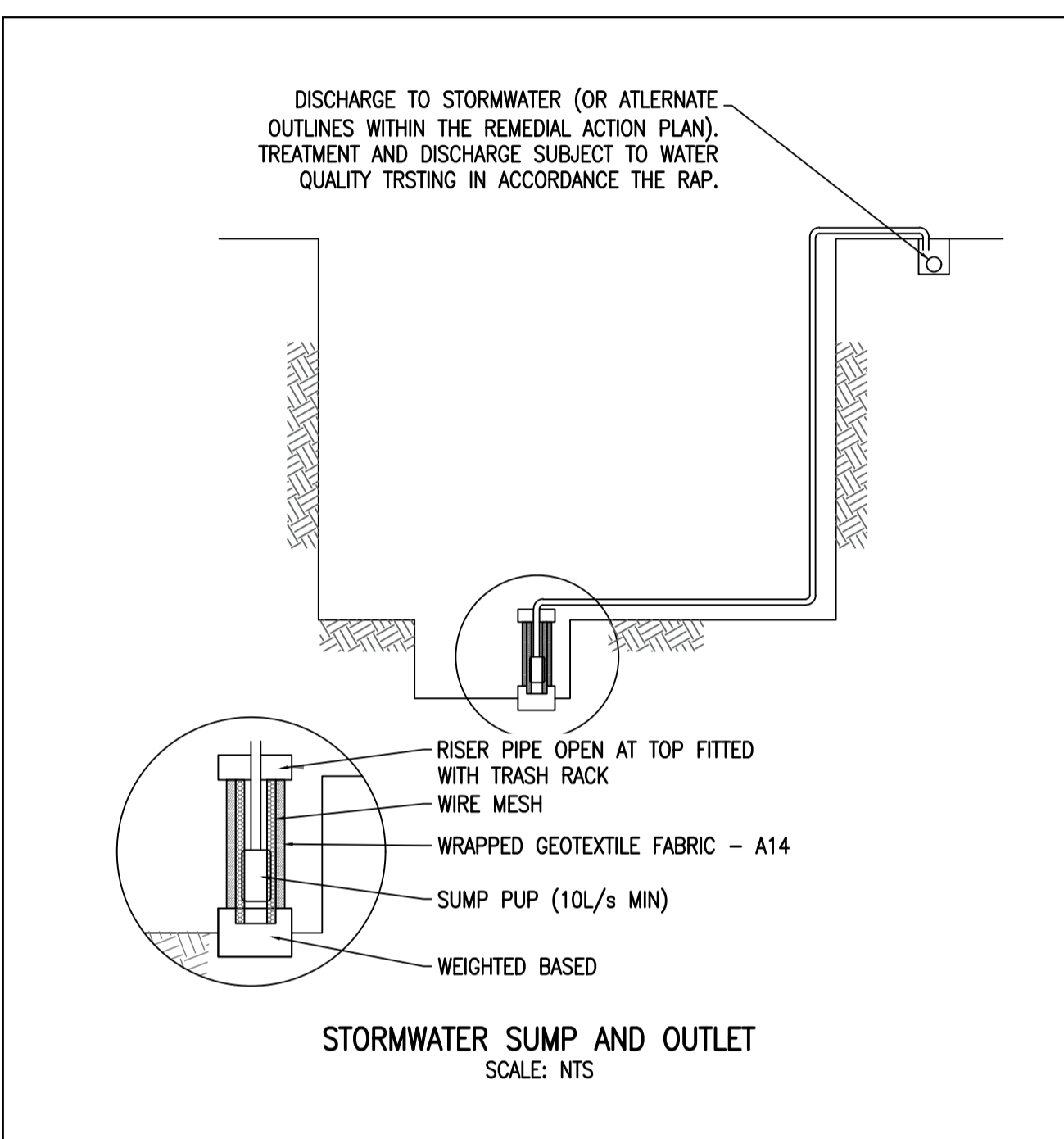
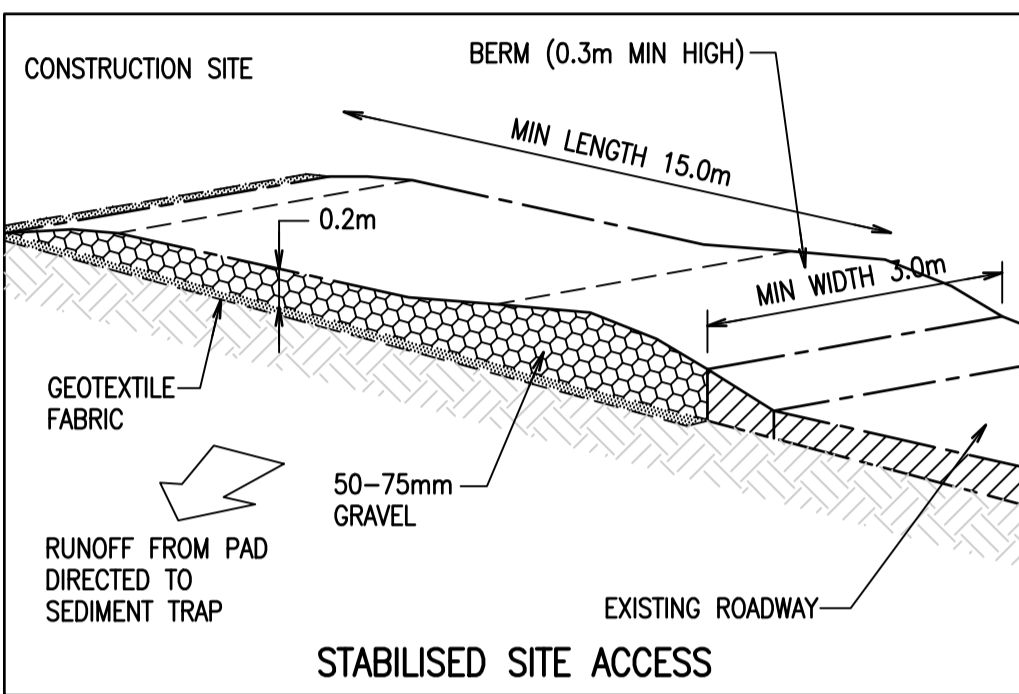


GENERAL NOTES:

- A1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- A2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE HILLS SHIRE COUNCIL REQUIREMENTS AND TO LANDCOM - MANAGING URBAN STORMWATER: SOIL AND CONSTRUCTION, 4th EDITION, MAR 2004.
- A3. REFER GEOTECHNICAL REPORT FOR EARTHWORKS AND PARAMETERS.
- A4. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE APPROVED CONSTRUCTION ENTRY/EXIT ROUTE.
- A5. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
- A6. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
- A7. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.
- A8. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS HAVE BEEN COMPLETED.
- A9. KERB INLET SOCKS TO BE PROVIDED ON DOWNSTREAM PITS.

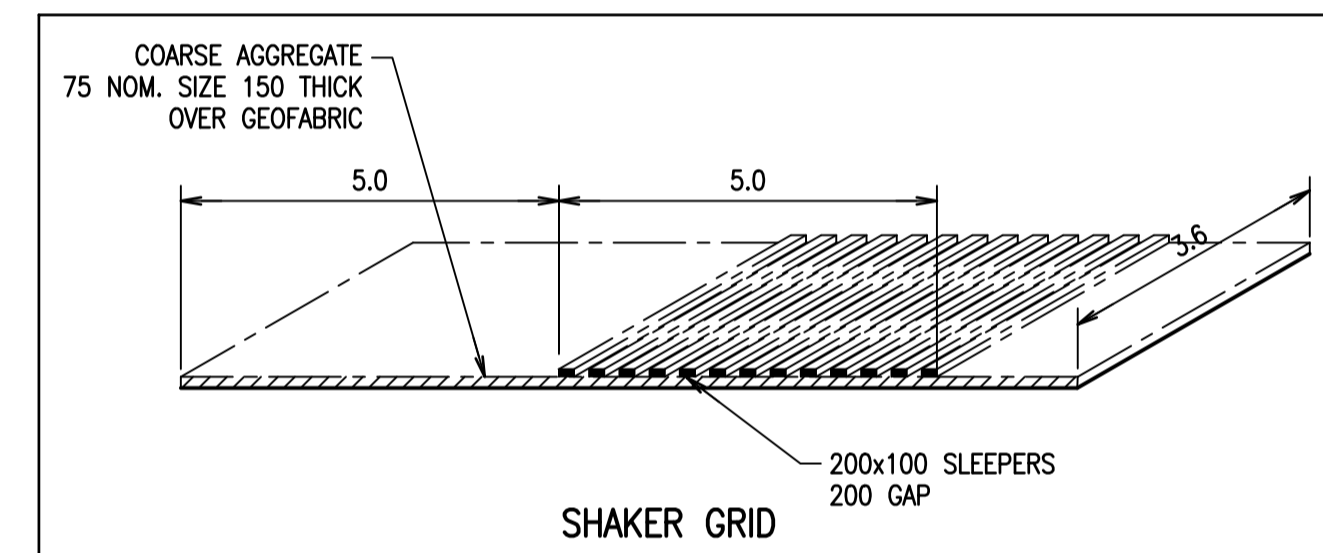
SEDIMENT CONTROL NOTES:

- SC1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE CONTRACTOR TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SC2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SC3. SEDIMENT FENCES SHOULD LAST FOR UP TO SIX MONTHS BUT REQUIRE REGULAR MAINTENANCE AND WEEKLY CHECKS. IT MUST REMAIN VERTICAL AND KEYED INTO THE SOIL. DAMAGED FENCES MUST BE REPAIRED PROMPTLY.
- SC4. SEDIMENT FENCES NEED TO BE TRENCHED IN AT LEAST 150mm AND BURIED SO THE WATER FLOWS THROUGH AND NOT UNDERNEATH.
- SC5. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- SC6. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- SC7. 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.
- SC8. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- SC9. ACCESS TO SITES SHOULD BE STABILIZED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.
- SC10. TEMPORARY STORMWATER SUMPS (LOCATIONS TO SUIT SITE PHASING).
 - DISCHARGE PUMP NOM. FLOW RATE = 10 l/s
 - RUNOFF COEFFICIENT = 1.00
 - SIZING OF SUMPS BASED ON STORAGE REQUIRED FOR A 3 MONTH ARI STORM EVENT UP TO 12 HOURS IN DURATION INTENSITIES FROM AUSTRALIAN BUREAU OF METEOROLOGY IFD DATA SYSTEM
- SC11. PRIOR TO DISCHARGING COLLECTED WATER TO INCLUDING THOSE IDENTIFIED IN THE RAP, IT IS TO BE TESTED TO ENSURE COMPLIANCE WITH WATER QUALITY REQUIREMENTS. SHOULD TESTING GIVE RESULTS THAT DO NOT COMPLY WITH THE ABOVE, TREATMENT MEASURES (SUCH AS APPLICATION OF A pH NEUTRAL FLOCCULENT) AND SUBSEQUENT RETESTING ARE REQUIRED. DOCUMENTARY RESULTS OF WATER QUALITY TESTING PRIOR TO DEWATERING ARE TO BE KEPT. A FILE IS TO BE KEPT ONSITE OF ALL WATER TESTING/DEWATERING EVENTS. FOLLOWING DEWATERING THE SUMP IS TO BE CLEARED OF SEDIMENT AND THE GEOTEXTILE ON THE PUMP WELL IS TO BE REPLACED.
- SC12. CONTRACTOR MUST ENSURE THAT ALL VEHICLES LEAVING SITE ARE HOSED DOWN (OR SIMILAR) TO REMOVE SEDIMENT.



SITE MAINTENANCE NOTES:

- SM1. THE CONTRACTOR 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 AND NECESSARY REPAIRS.
 - B) REMOVED 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) REMOVED TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURES HAS BEEN EXCEEDED.
 - D) ENSURE REHABILITATION LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD 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 PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECT 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.
 - G) FILL IN AND COMPACT ALL TRENCHES IMMEDIATELY AFTER SERVICES HAVE BEEN LAID.
- SM2. THE CONTRACTOR 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
 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.



WASTE CONTROL NOTES:

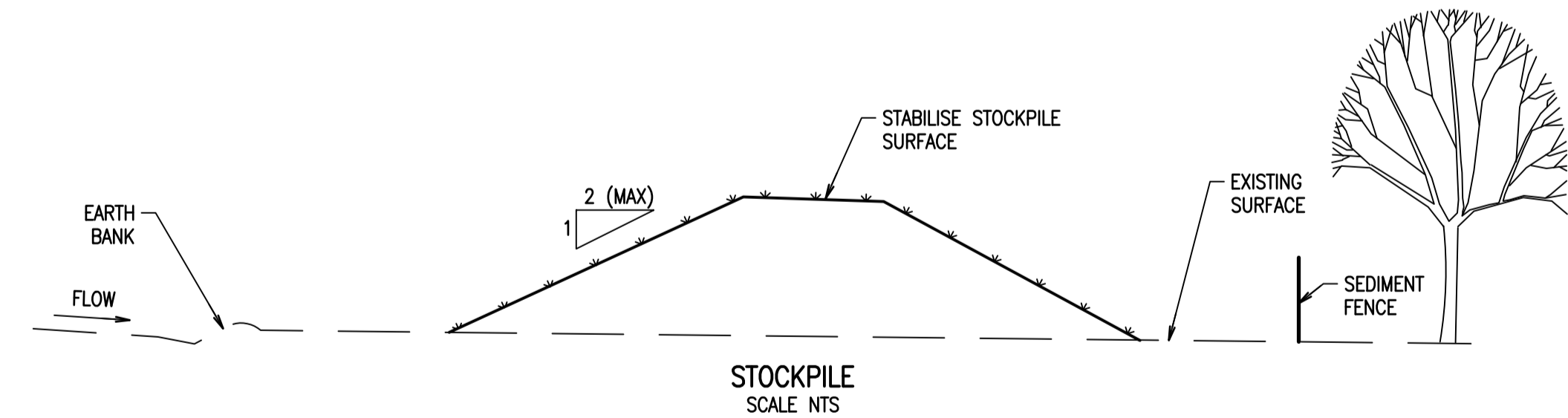
- WC1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE CONTRACTOR.
- WC2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOW PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
- WC3. ALL SITE STAFF AND SUBCONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
- WC4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- WC5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

LAND DISTURBANCE NOTES:

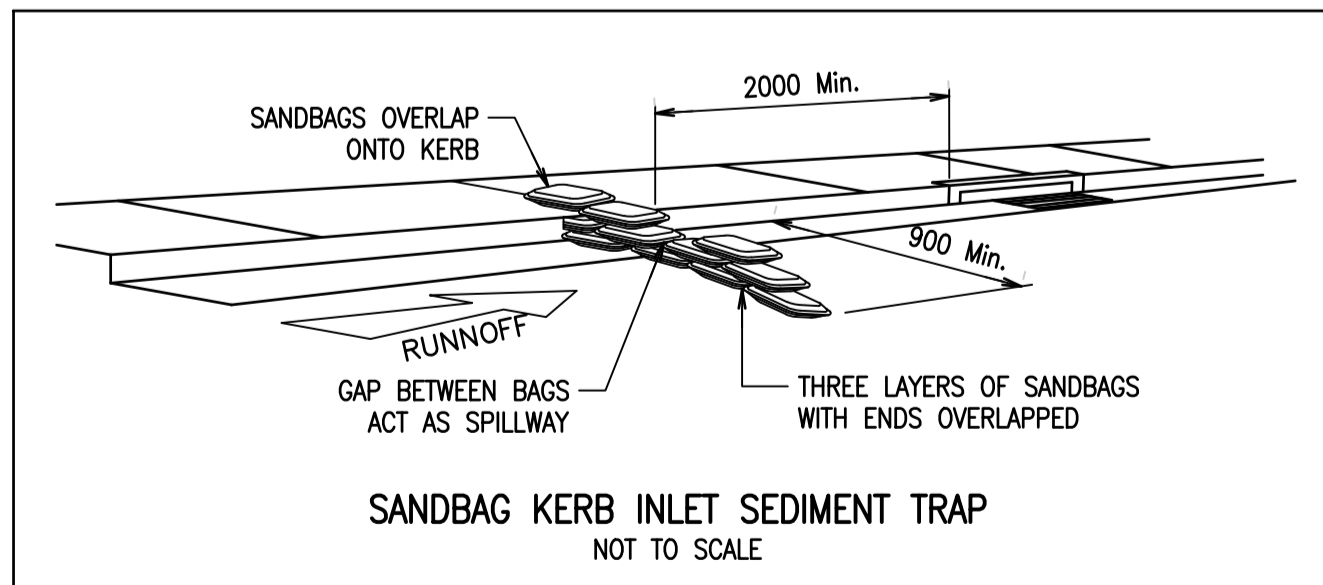
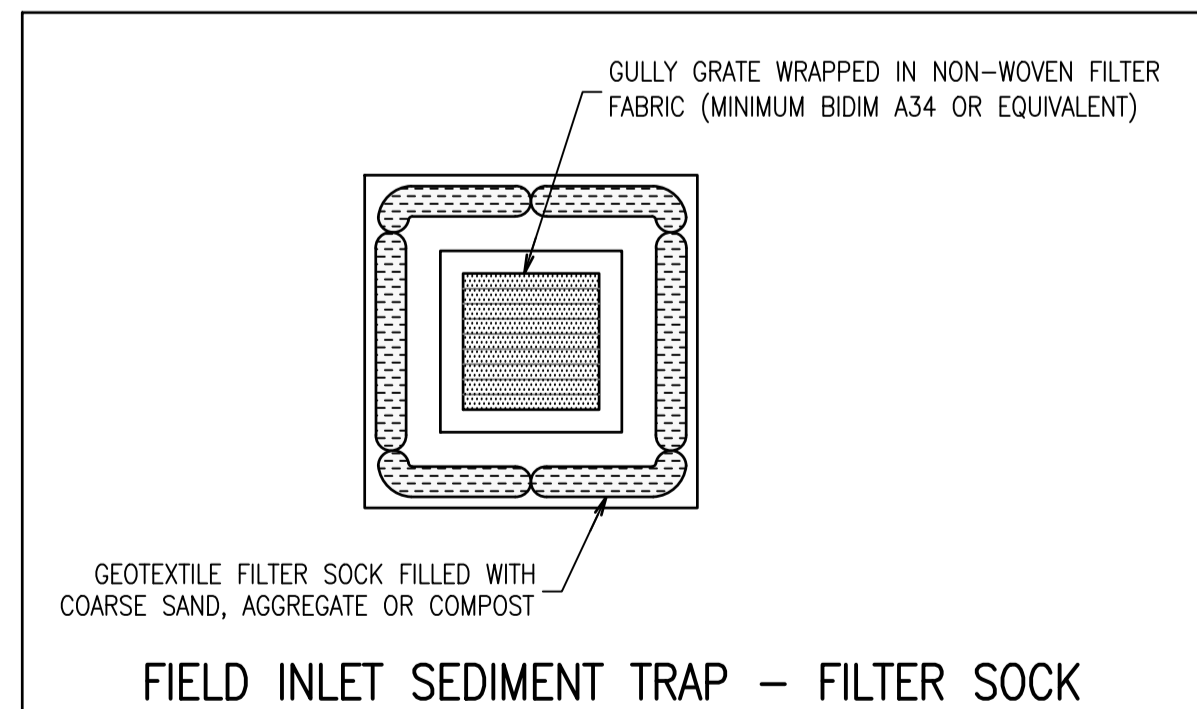
- LD1. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METERS THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNIZE THOSE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH A BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- LD2. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
- LD3. 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 GRADES 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.
- LD4. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.

SOIL EROSION CONTROL NOTES:

- SE1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTES, THAN THAT RECOMMENDED BY GEOTECHNICAL REPORT.
- SE2. 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.
- SE3. 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. FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- SE4. 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.
- SE5. 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.
- SE6. 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.



- NOTES:**
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
 5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date
Scale	1:1	1:2	1:3	1:4
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

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Client
FREECITY ROUSE HILL DEVELOPMENT

Title
EROSION AND SEDIMENT CONTROL DETAILS

Project
TEMPUS STREET ROUSE HILL

Date
08.03.25

Scale of A1
NTS

Drawn
MARELLANO

Designer
NLY

Design Checker
AANG

Approved
AANG

RBG Project No.
24378

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Drawing Number
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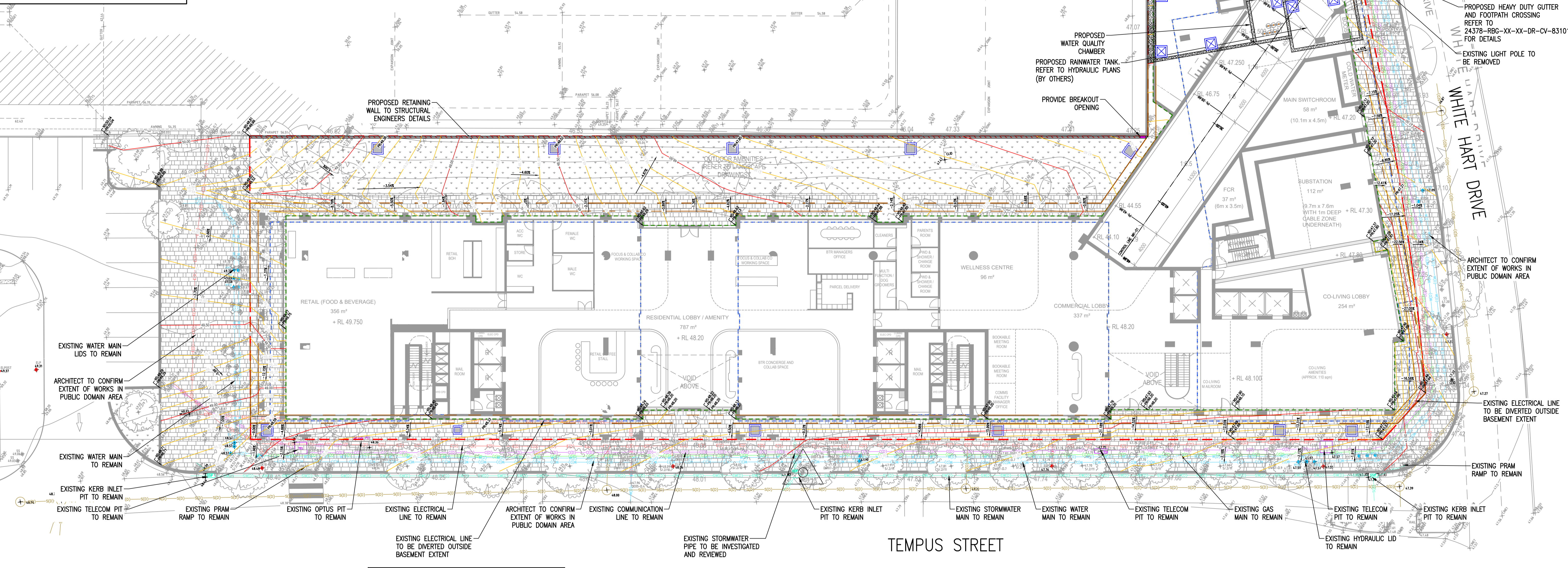
Revision
P02

LEGEND

- SITE BOUNDARY
- 49 PROPOSED MAJOR CONTOURS
- 49 PROPOSED MINOR CONTOURS
- BASEMENT OUTLINE
- UPPER LEVEL OUTLINE
- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING COMMS
- EXISTING WATER
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER
- BASEMENT OUTLINE
- UPPER LEVEL OUTLINE
- PROPOSED STORMWATER PIT
- ▨ PROPOSED RETAINING WALL
- BREAKOUT OPENING

LEGEND

- LANDSCAPE
- PAVEMENT (REFER TO LANDSCAPE PLAN DETAILS)



NOTE: ARCHITECT TO CONFIRM EXTERNAL/PUBLIC DOMAIN WORKS

SCALE 1:200

2 0 2 4 6 8m

Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

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FREECITY ROUSE HILL DEVELOPMENT

Title
GENERAL ARRANGEMENT PLAN

Project
TEMPUS STREET ROUSE HILL

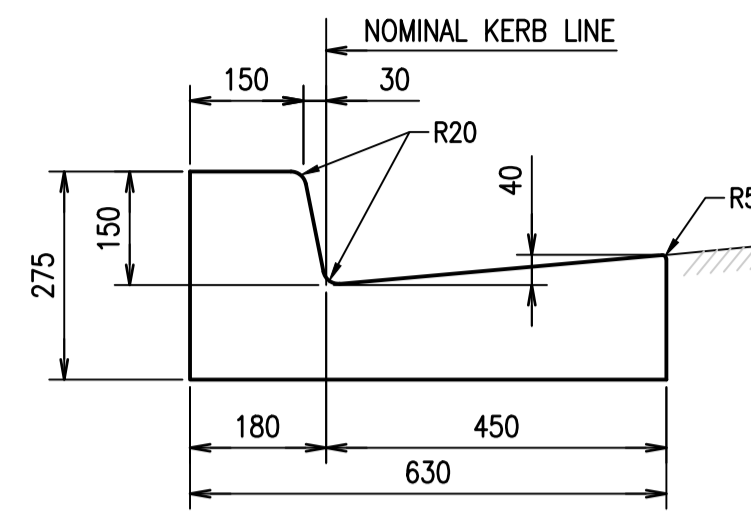
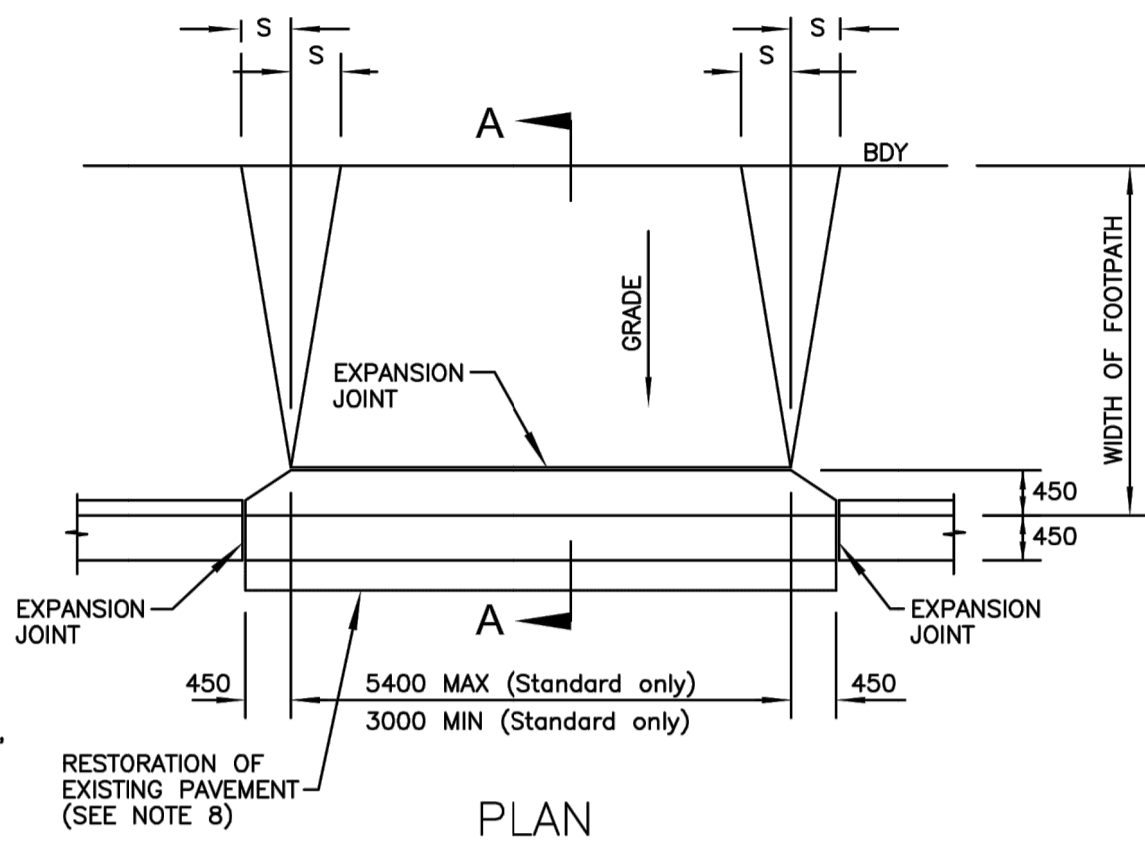
Date 11.03.25	Drawn MARELLANO	Design Checker AUNG
Scale of A1 1:200	Designer NLY	Approved AUNG
Drawing Number 24378-RBG-XX-XX-DR-CV-83001	Revision P02	RBG Project No. 24378

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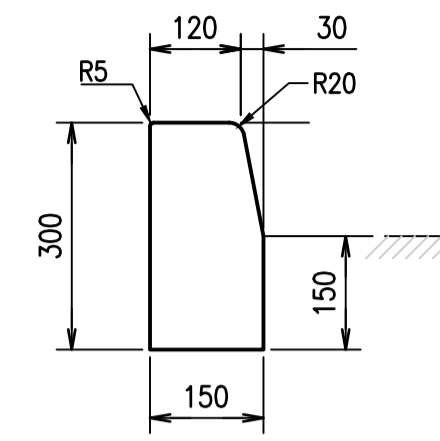
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. STEEL FABRIC TO BE PLACED A MINIMUM OF 40mm AND A MAXIMUM 50mm BELOW THE CONCRETE SURFACE LEVEL.
3. CONCRETE USED IN THE WORK SHALL DEVELOP A MINIMUM CRUSHING STRENGTH OF 25 MPa AFTER 28 DAYS.
4. GUTTER CROSSING TO BE POURED BEFORE AND SEPARATELY FROM FOOTPATH CROSSING.
5. EXPOSED LENGTH OF DOWEL FROM GUTTER CROSSING POUR TO BE COATED WITH "BRUSHABLE DURASEAL" OR EQUIVALENT PRIOR TO POURING FOOTPATH SLAB.
6. REFER TO ELECTRICITY SUPPLIER FOR LOCATION OF CABLE DUCTS.
7. TELECOMMUNICATIONS SUPPLIER REQUIRES THAT CONDUITS BE PROVIDED UNDER FOOTPATH CROSSING. THREE WORKING DAYS NOTICE REQUIRED TO ARRANGE INSTALLATION.
8. PROVIDE SAWCUT TO EDGE OF DAMAGED PAVEMENT PRIOR TO RESTORATION WITH FULL DEPTH ASPHALTIC CONCRETE (AC 10)
9. THE KERB AND GUTTER MUST BE POURED AS A SINGLE CONTIGUOUS STRUCTURE. WHERE A NEW DRIVEWAY IS BEING INSTALLED, THE EXISTING KERB AND GUTTER MUST BE REMOVED IN ITS ENTIRETY.
10. IF THE EXISTING GUTTER CROSSING OR PEDESTRIAN FOOTPATH IS DAMAGED OR CRACKED, IT MUST BE COMPLETELY REMOVED AND RECONSTRUCTED.
11. ROOFWATER OUTLET CONNECTIONS MUST BE LOCATED 0.5m (MINIMUM) CLEAR OF DRIVEWAYS. EXISTING CONNECTIONS CONFLICTING WITH A PROPOSED DRIVEWAY MUST BE RELOCATED

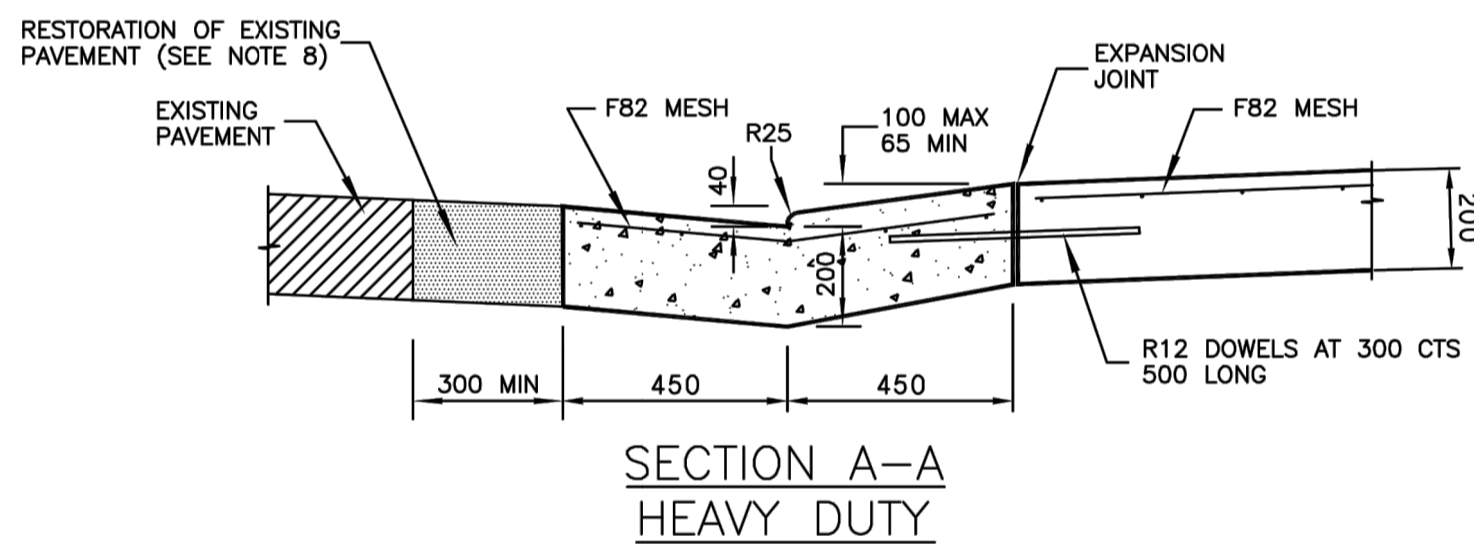
CROSSING TYPE	S
STANDARD DUTY	1000 mm MAXIMUM
MEDIUM DUTY	500 mm MINIMUM
HEAVY DUTY	500 mm MINIMUM



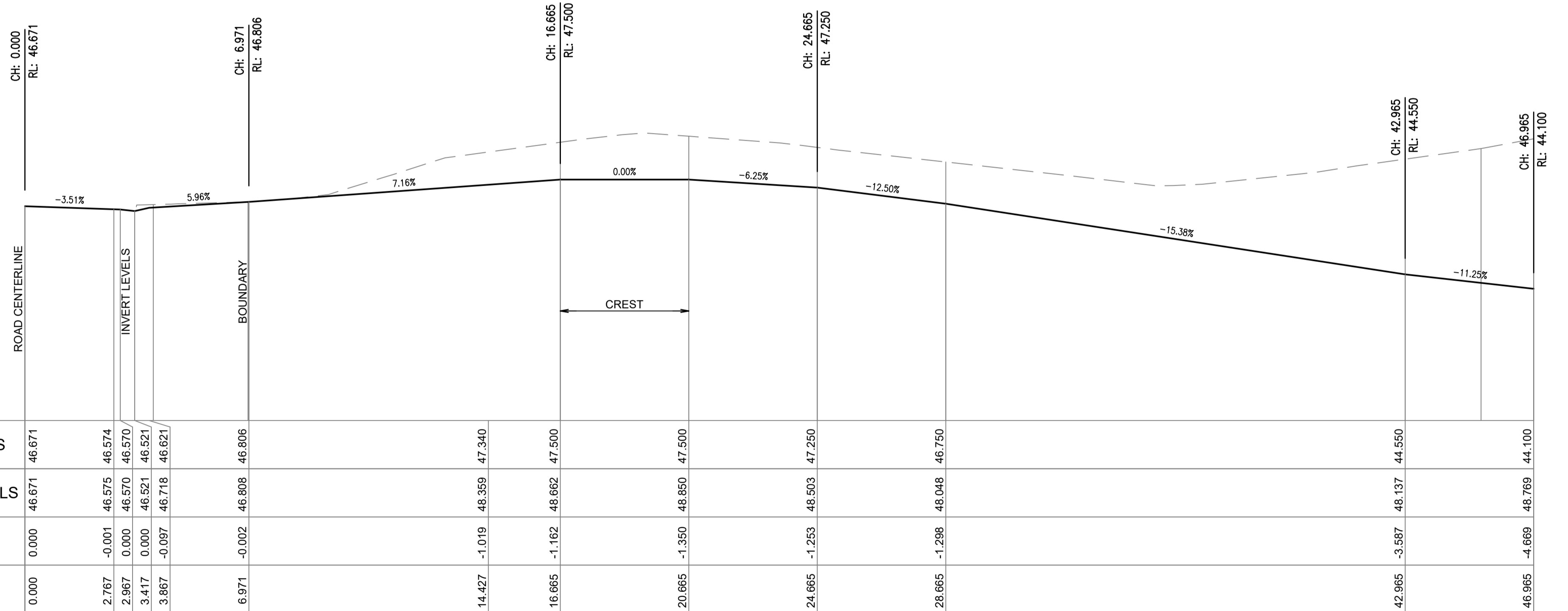
KERB & GUTTER DETAIL
1:10



KERB ONLY DETAIL
1:10



SECTION A-A
HEAVY DUTY



LONGITUDINAL SECTION - CONTROL LINE MK-01
SCALE 1:100 V&H

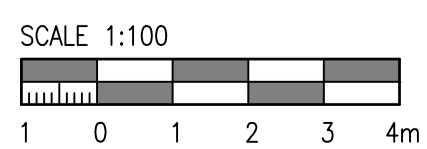
THE HILLS Sydney's Garden Shire

THE HILLS SHIRE COUNCIL

GUTTER & FOOTPATH CROSSING

DATE: APR.2021

DRAWING No.: **SD.15**



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

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18				

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ACN 010 580 248

Client
FREECITY ROUSE HILL DEVELOPMENT

Title
CIVIL DETAILS SHEET 1

Project
TEMPUS STREET ROUSE HILL

Date
10.03.25

Scale of A1
NTS

Drawn
MARELLANO

Designer
NLY

Design Checker
AJANG

Approved
AJANG

RBG Reference No.
24378

NOT FOR CONSTRUCTION

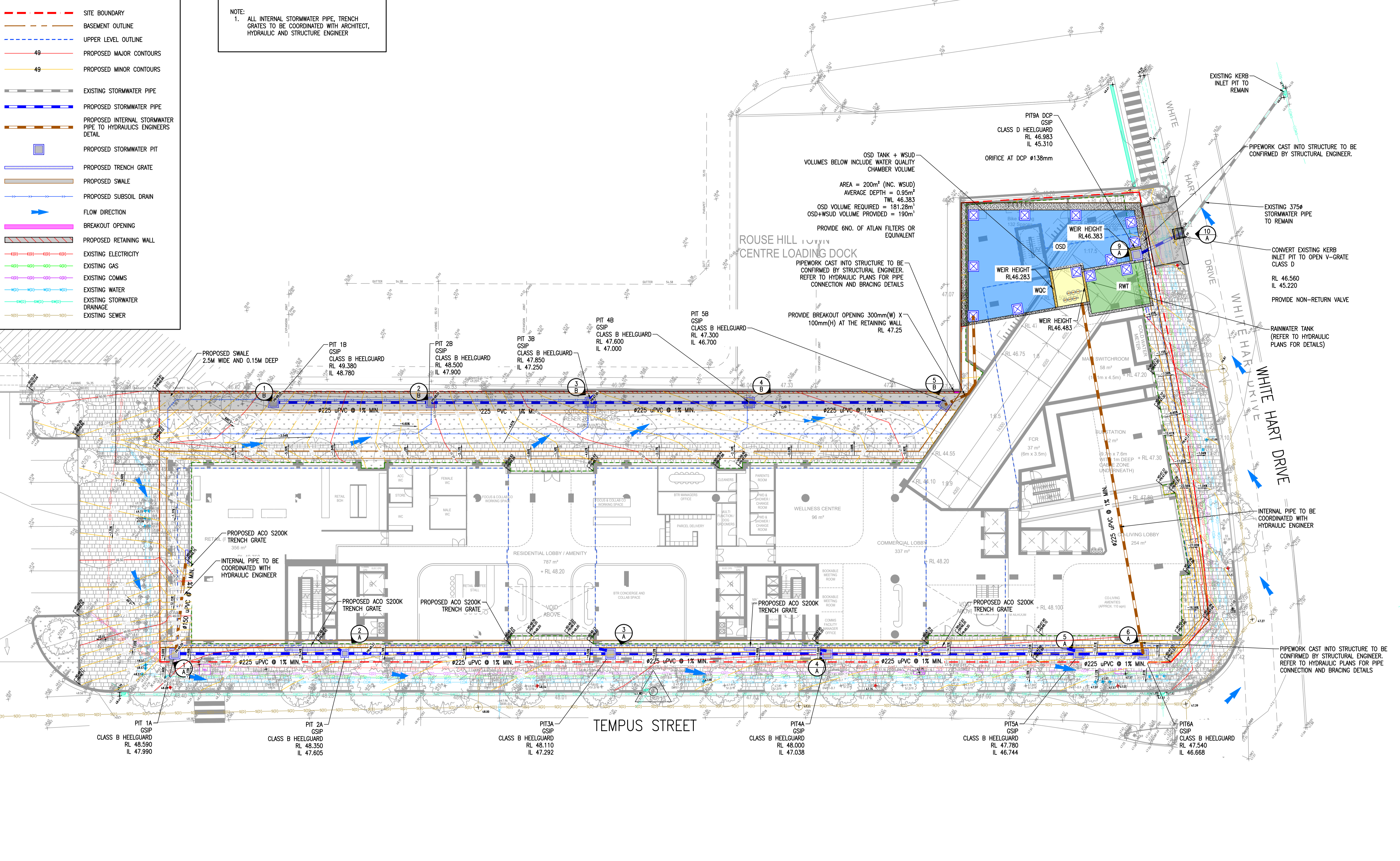
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Revision
P02

LEGEND

- SITE BOUNDARY
- BASEMENT OUTLINE
- UPPER LEVEL OUTLINE
- 49 PROPOSED MAJOR CONTOURS
- 49 PROPOSED MINOR CONTOURS
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED INTERNAL STORMWATER PIPE TO HYDRAULICS ENGINEERS DETAIL
- PROPOSED STORMWATER PIT
- PROPOSED TRENCH GRATE
- PROPOSED SWALE
- PROPOSED SUBSOIL DRAIN
- FLOW DIRECTION
- BREAKOUT OPENING
- PROPOSED RETAINING WALL
- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING COMMS
- EXISTING WATER
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER

NOTE:
1. ALL INTERNAL STORMWATER PIPE, TRENCH GRATES TO BE COORDINATED WITH ARCHITECT, HYDRAULIC AND STRUCTURE ENGINEER



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date
11				
12				
13				
14				
15				
16				
17				
18				

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Client
FREECITY ROUSE HILL DEVELOPMENT

Title
STORMWATER MANAGEMENT PLAN

Project
TEMPUS STREET ROUSE HILL

Date
11.03.25
Scale of A1
1:200

Drawn
MARELLANO

Design
NLY

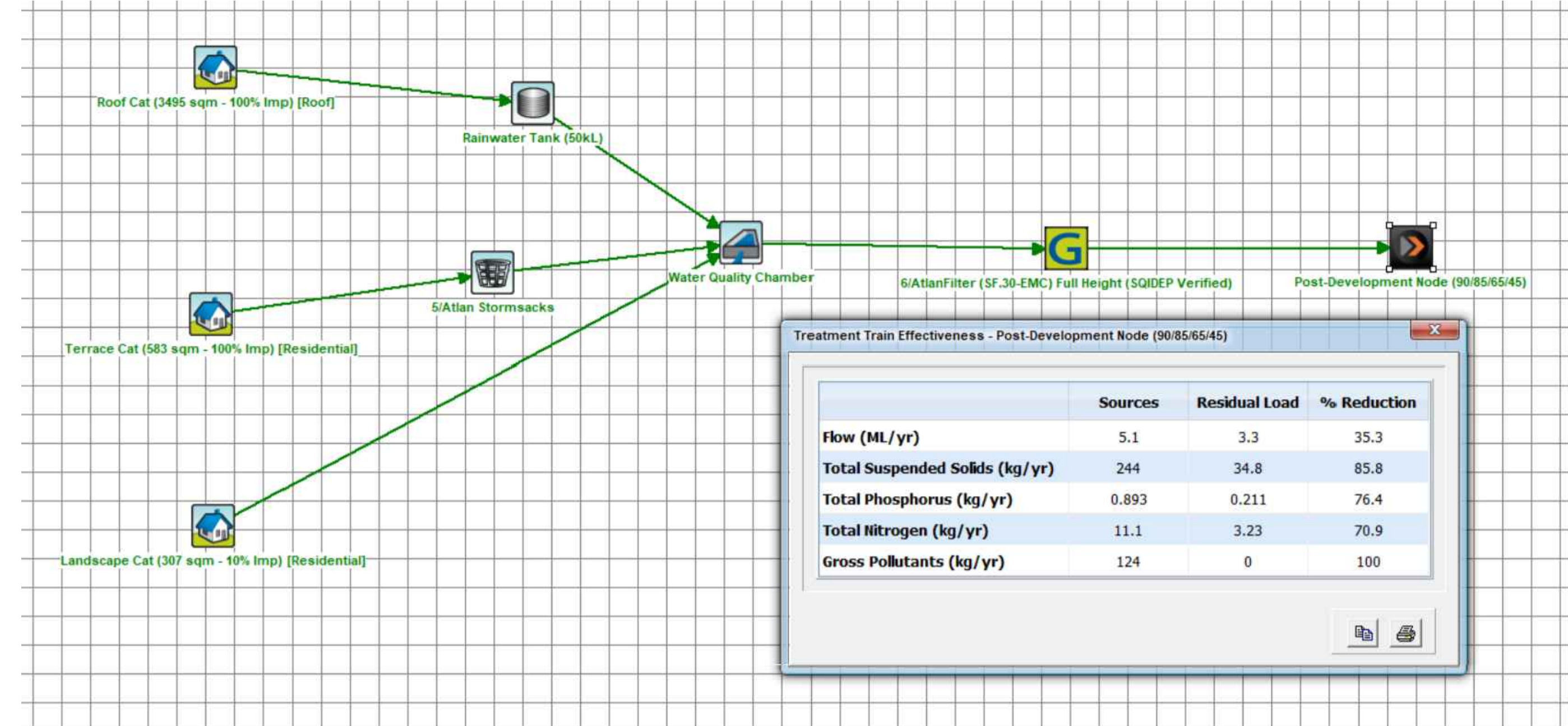
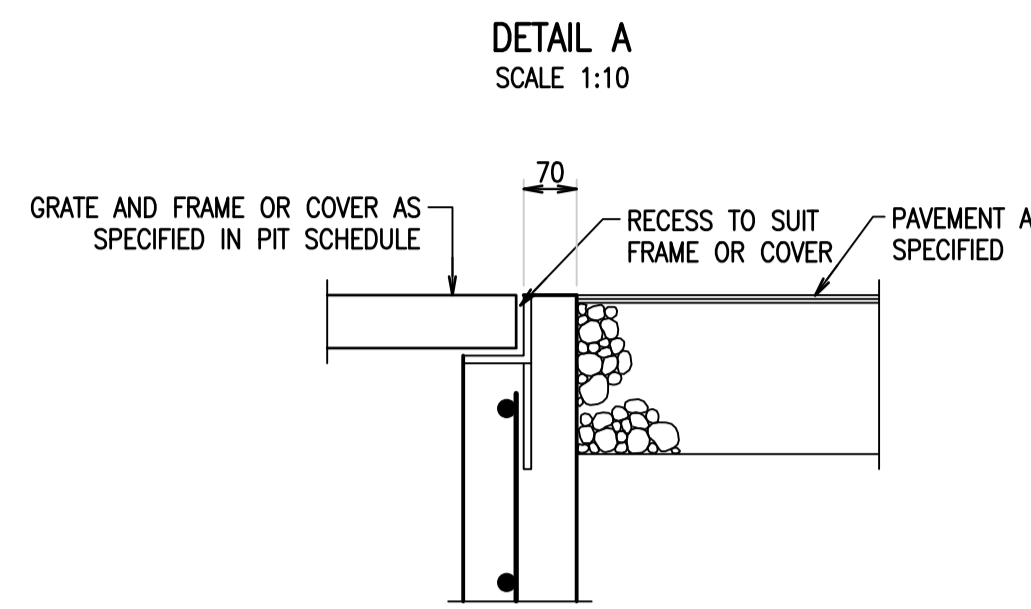
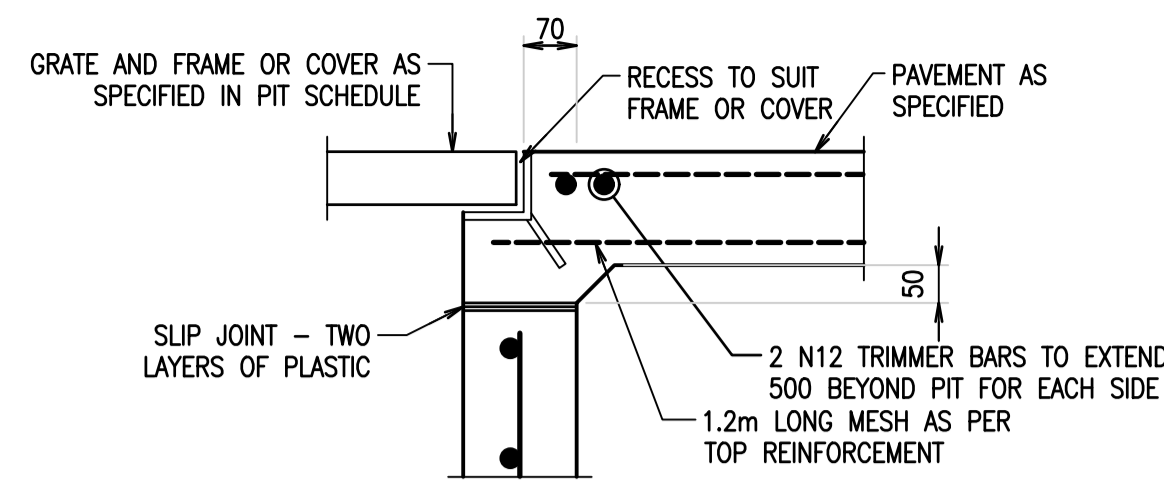
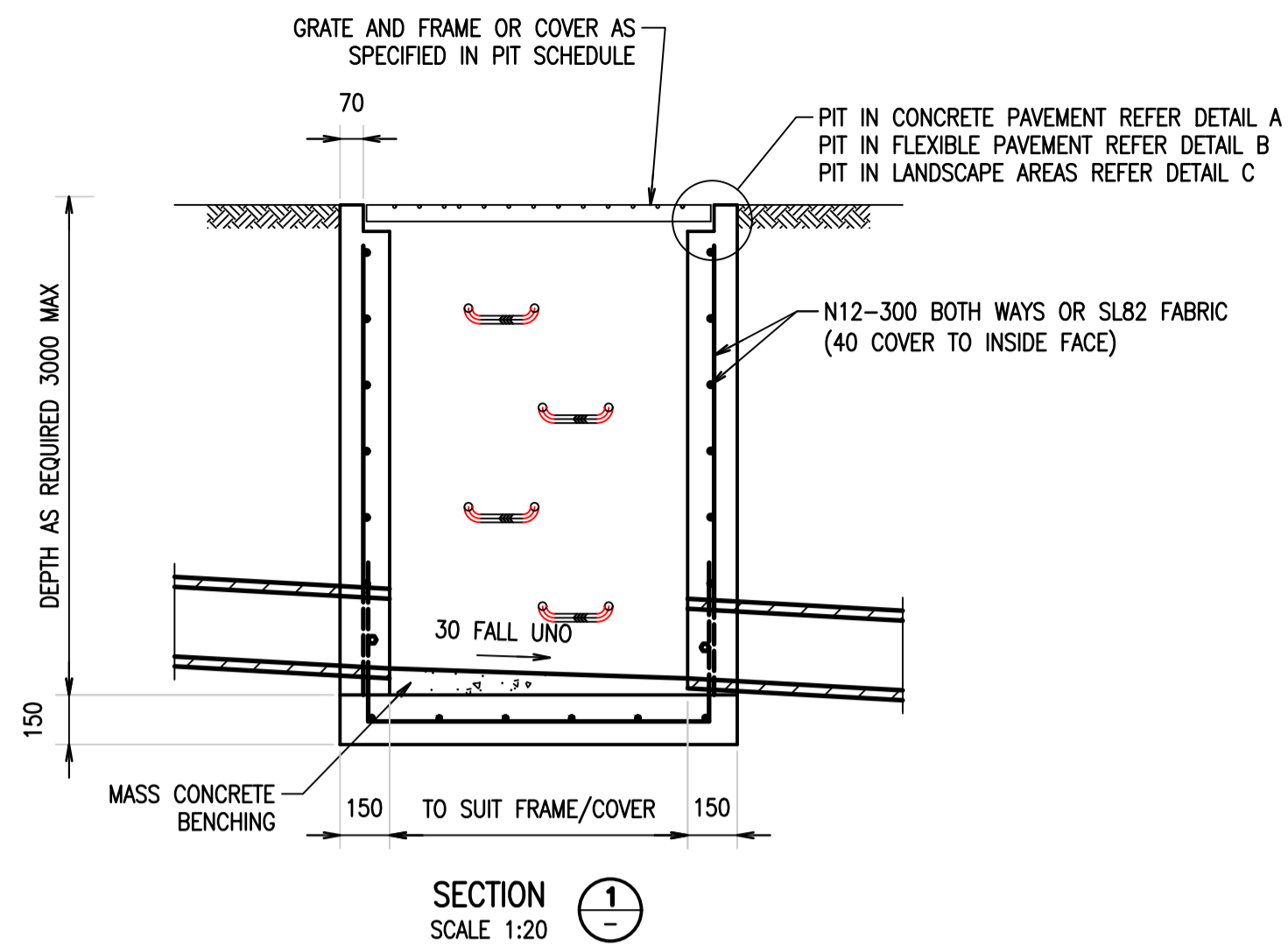
Design Checker
Approved
ALANG

RBG Reference No.
24378

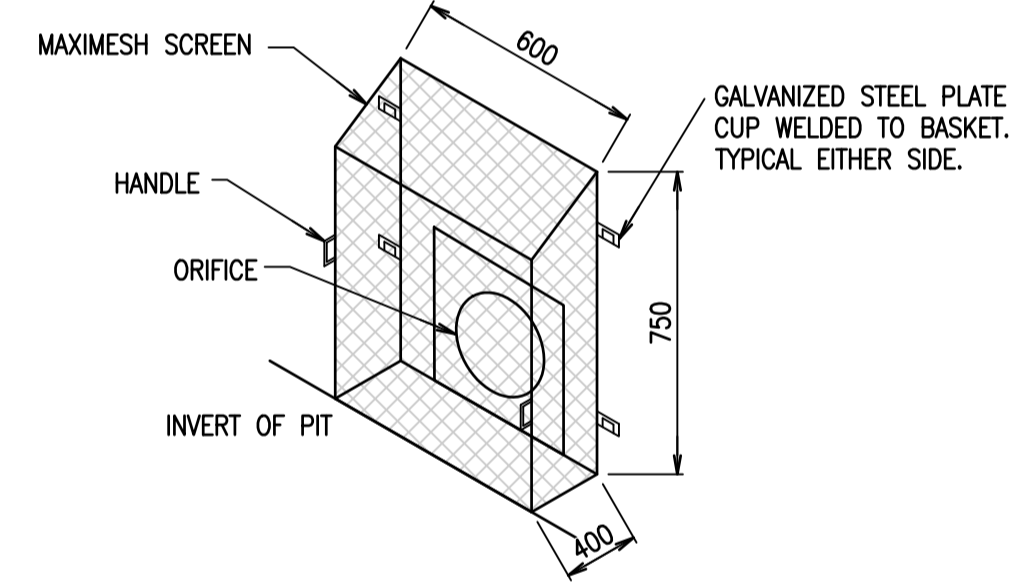
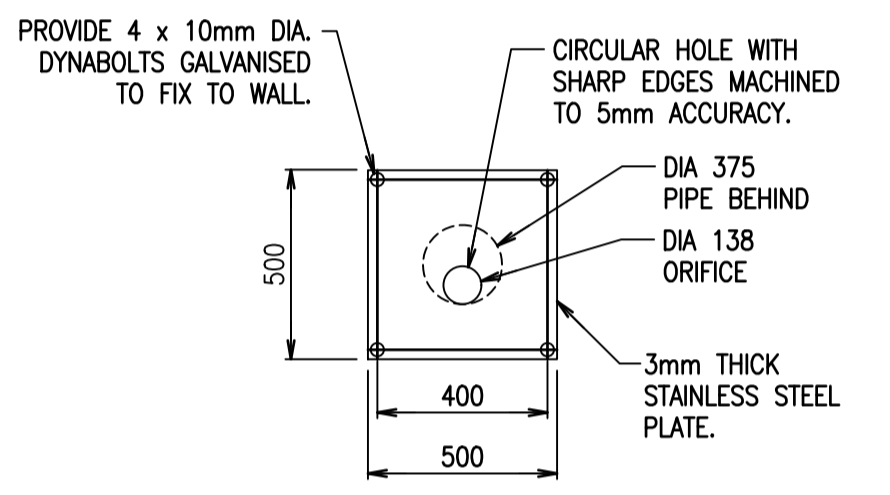
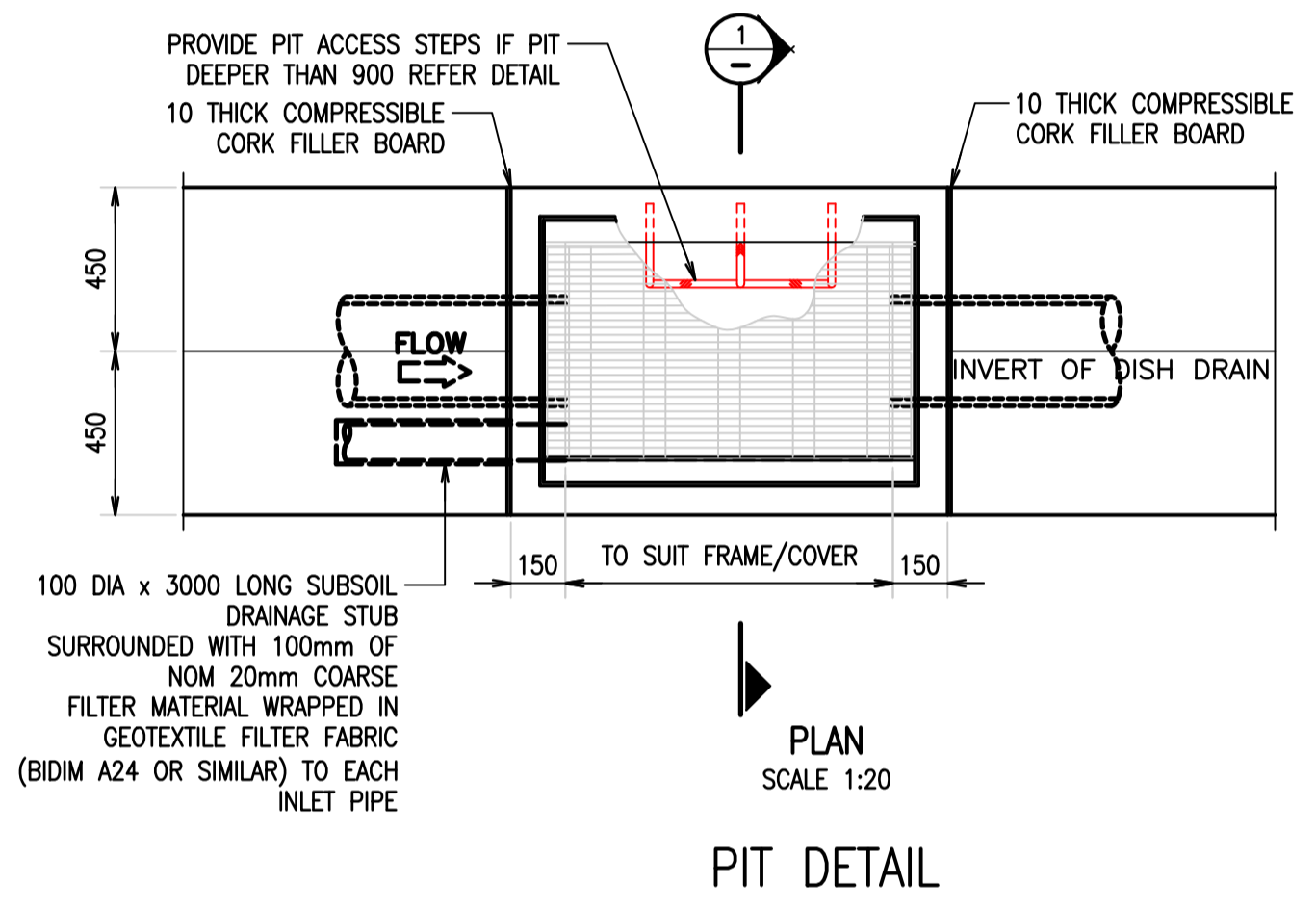
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Drawing Number
24378-RBG-XX-XX-DR-CV-87001

Revision
P02

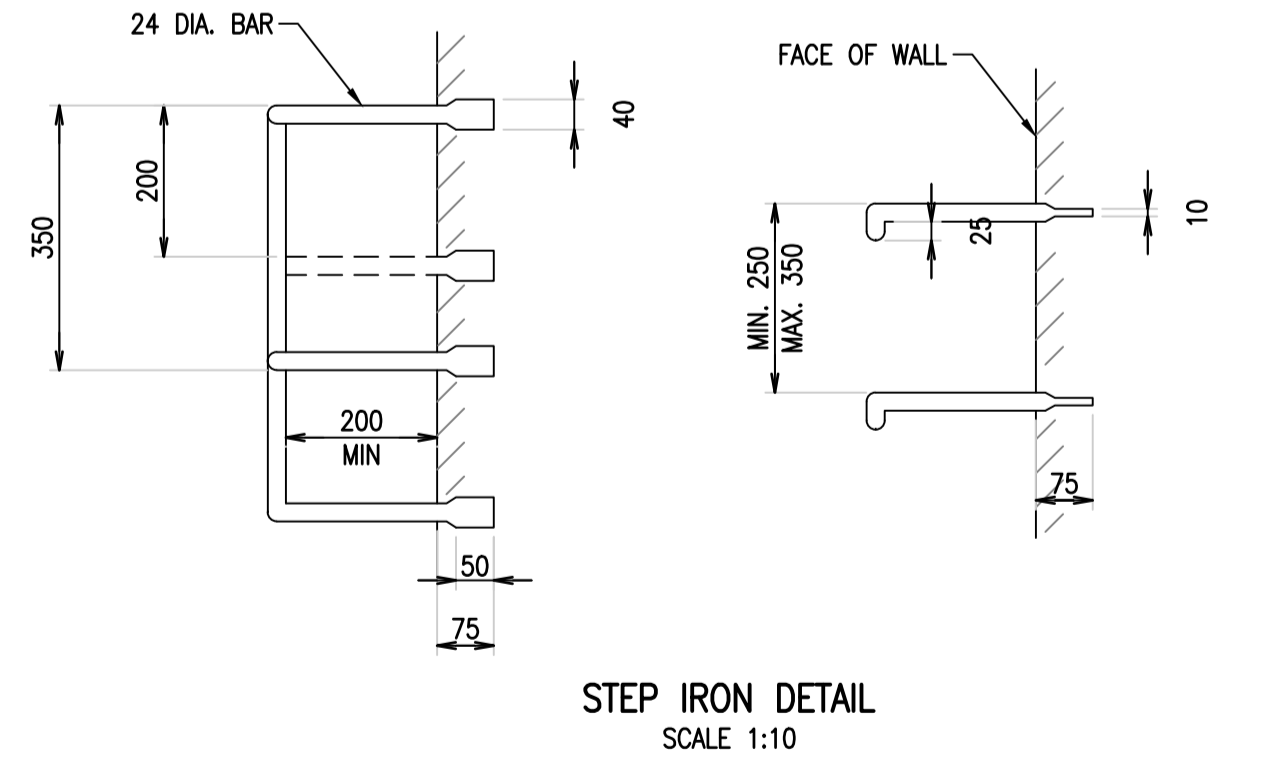
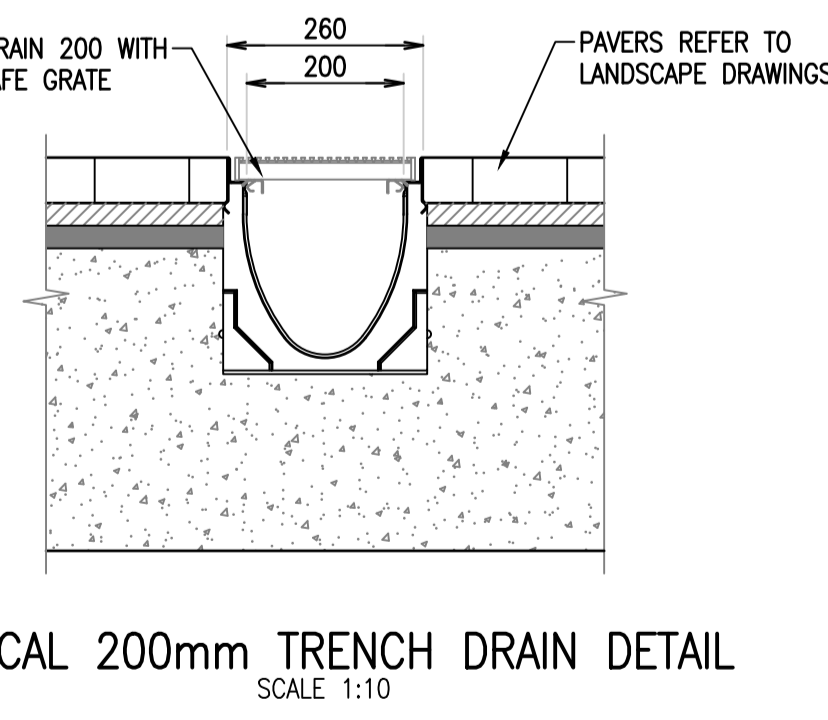
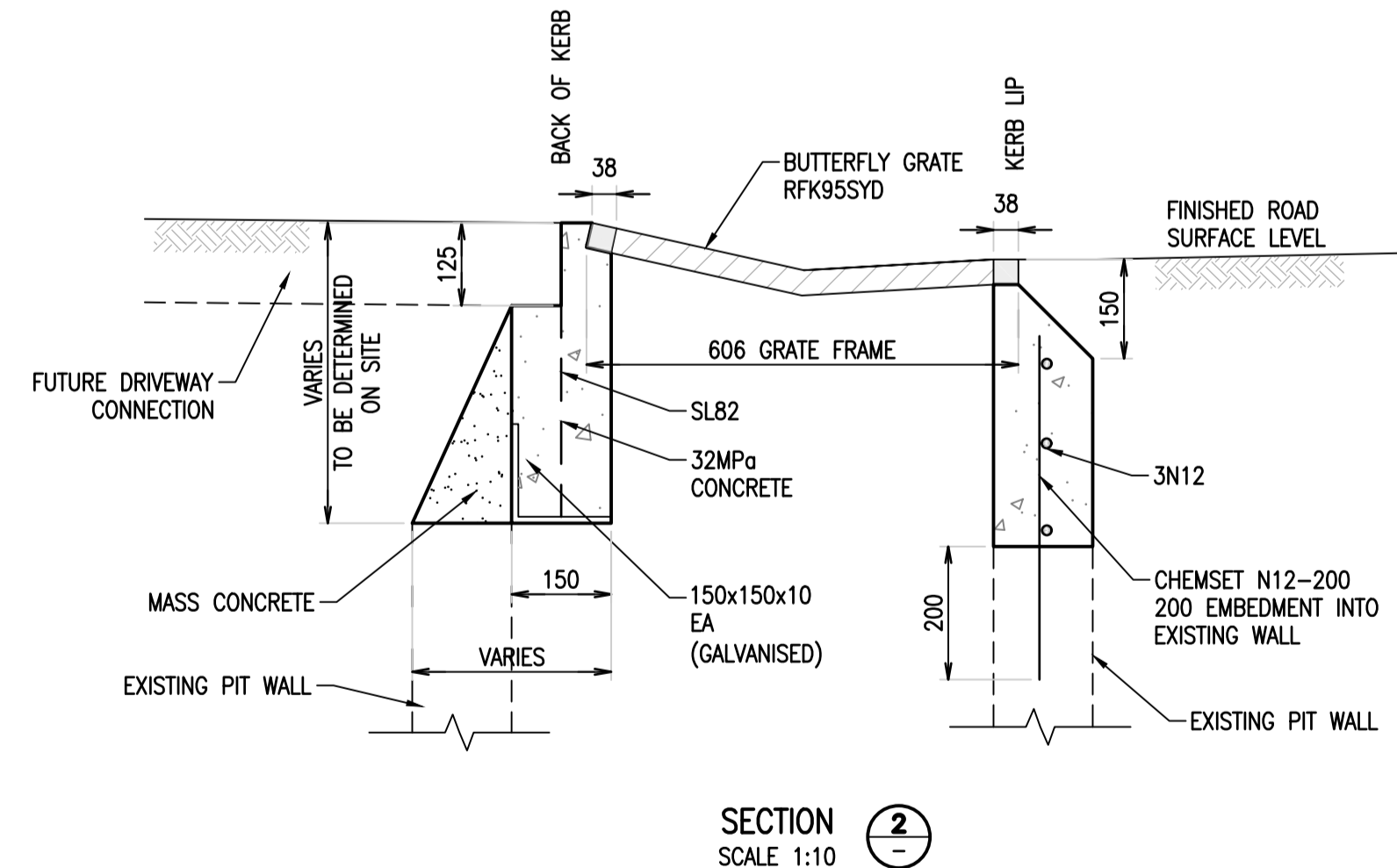
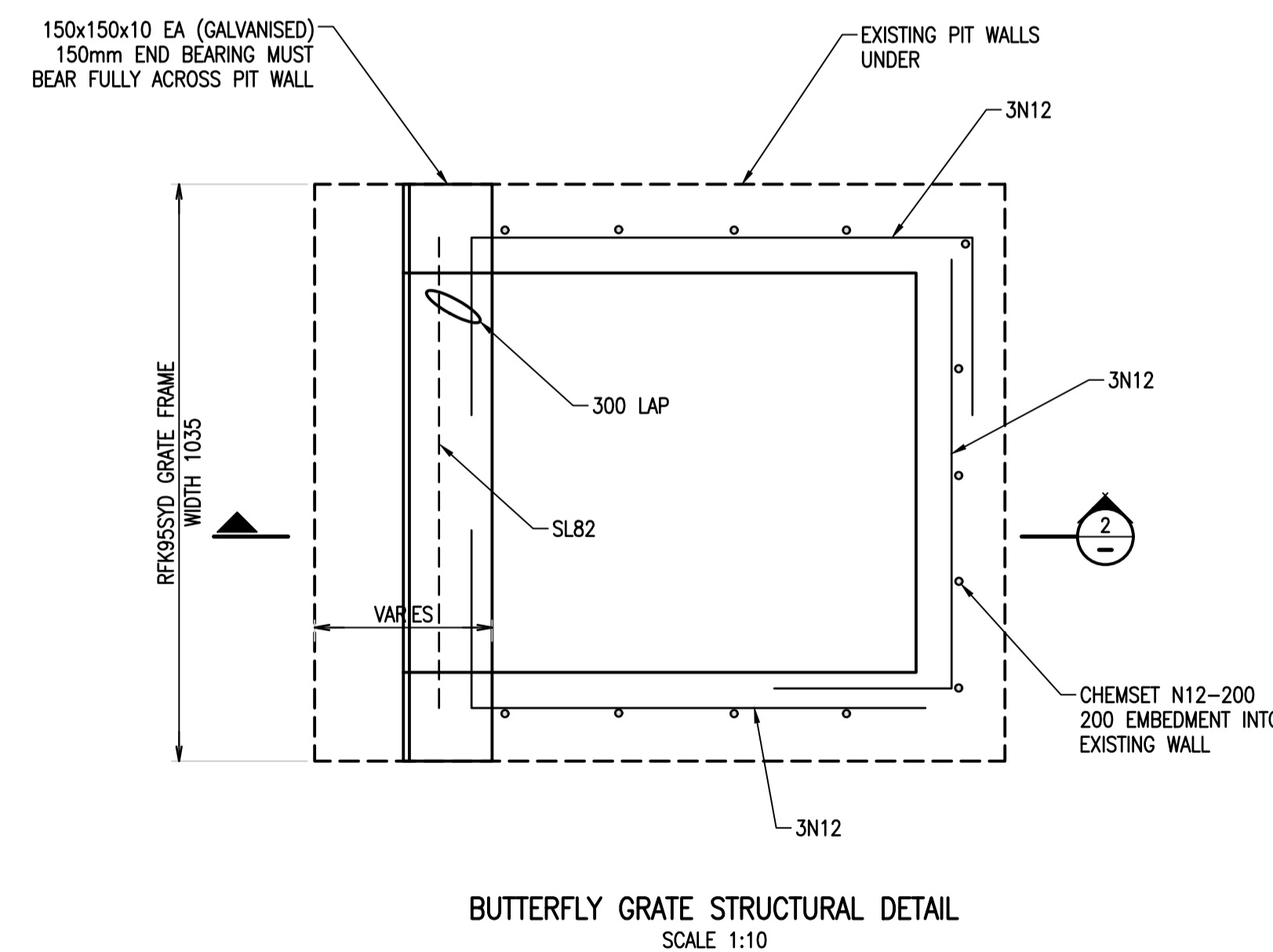


	Sources	Residual Load	% Reduction
Flow (ML/yr)	5.1	3.3	35.3
Total Suspended Solids (kg/yr)	244	34.8	85.8
Total Phosphorus (kg/yr)	0.893	0.211	76.4
Total Nitrogen (kg/yr)	11.1	3.23	70.9
Gross Pollutants (kg/yr)	124	0	100



ON-SITE STORMWATER DETENTION NOTES:
 AS PER THE HILLS DCP AND DESIGN GUIDELINES, THE SITE IS LOCATED WITHIN THE HAWKESBURY RIVER CATCHMENTS. THE PERMISSIBLE SITE DISCHARGE (PSD) IS 87 L/s AND THE SITE STORAGE VOLUME (SSV) IS 412 (m³/ha)
 PSD = 87 L/s x 0.44ha = 38.28 L/s
 SSV = 412 (m³/ha) x 0.44ha = 181.28 m³

ORIFICE CALCULATION:
 $Q = CA \sqrt{2gH}$
 - C = 0.6
 - H = 1.8-0.45 = 1.25m
 - Q = 38.38 L/s
 ORIFICE 138mm



STEP IRONS SHALL BE PROVIDED AT 350 CTS UNDER LID WHERE PIT IS DEEPER THAN 1200.

Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date
11				
12				
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Client
FREECITY ROUSE HILL DEVELOPMENT

Title
STORMWATER DETAILS SHEET 1

Project
TEMPUS STREET ROUSE HILL

Date
 10.03.25
 Scale of A1
 NTS

Drawn
 MARELLANO

Designer
 NLY

Design Checker
 AANG

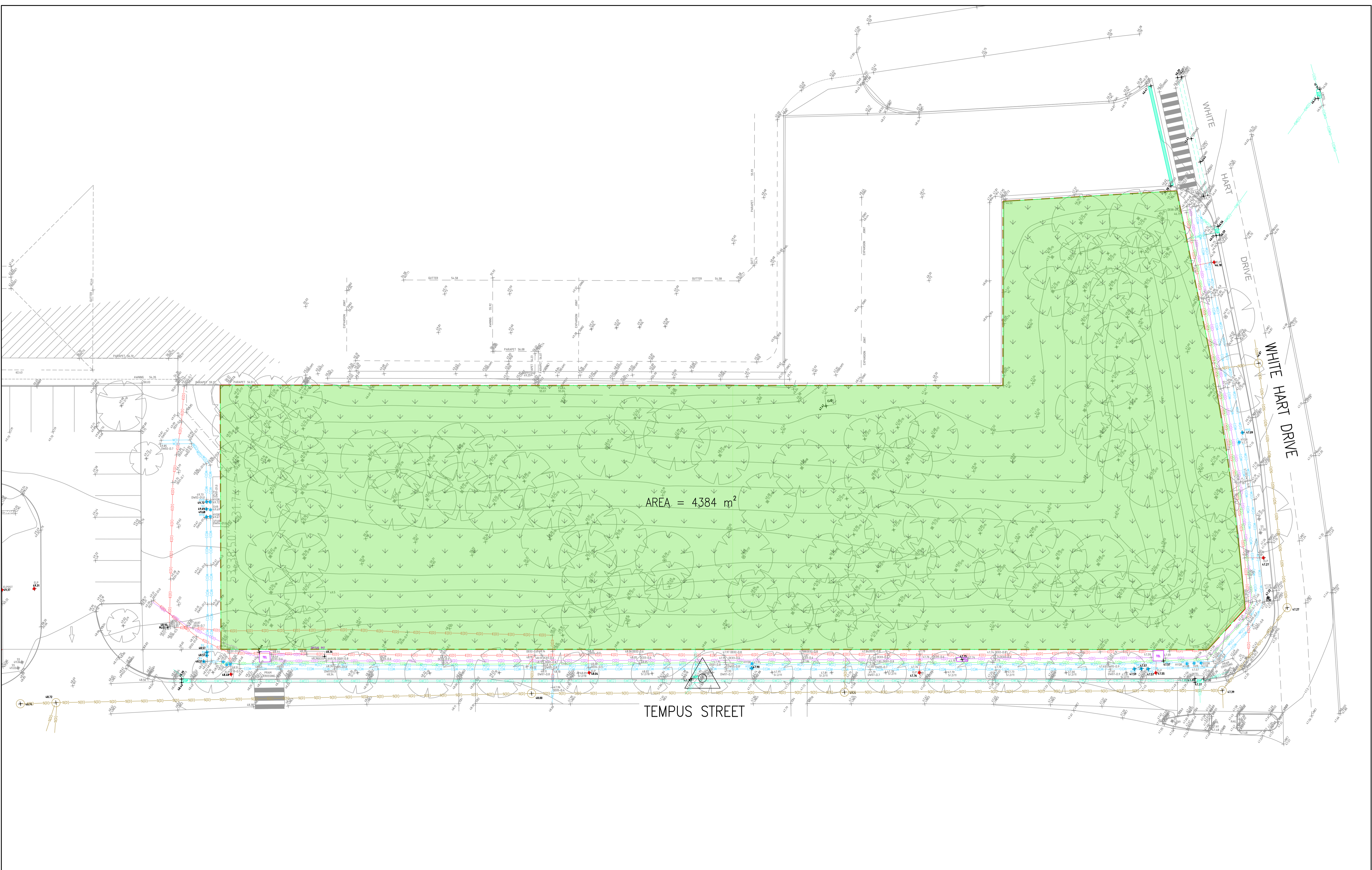
Approved
 AANG

RBG Reference No.
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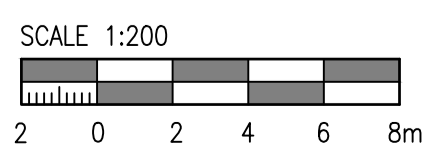
Drawing Number
24378-RBG-XX-XX-DR-CV-87101

Revision
P02



AREA = 4,384 m²

TEMPUS STREET



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date

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Client
FREECITY ROUSE HILL DEVELOPMENT

Title
STORMWATER PRE DEVELOPMENT CATCHMENT PLAN

Project
TEMPUS STREET ROUSE HILL

Date
 09.03.25

Scale of A1
 1:200

Drawing Number
24378-RBG-XX-XX-DR-CV-87401

Drawn
 MARELLANO

Designer
 NLY

Design Checker
 AJANG

Approved
 AJANG

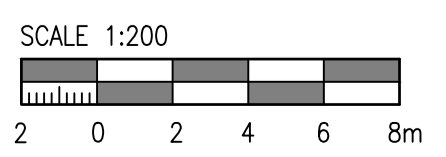
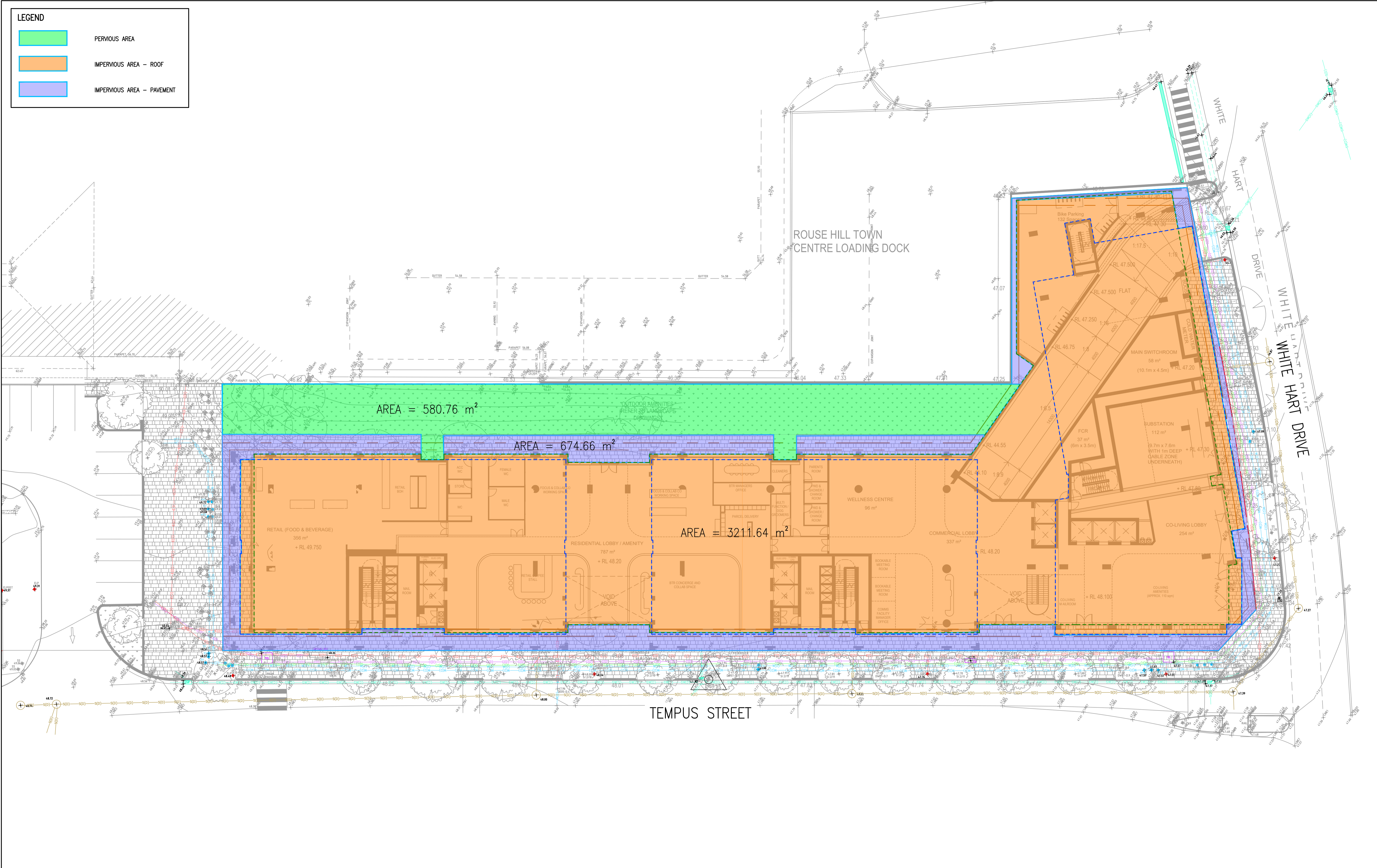
RBG Project No.
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Revision
P02

LEGEND

- PERVIOUS AREA
- IMPERVIOUS AREA - ROOF
- IMPERVIOUS AREA - PAVEMENT



Rev	Revision Description	By	App	Date
P01	PRELIMINARY CONCEPT DESIGN	NL	AA	20.12.24
P02	PRELIMINARY CONCEPT DESIGN	NL	AA	11.03.25

Rev	Revision Description	By	App	Date

Scale 1:1 2:1 3:1 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 12:1 13:1 14:1 15:1 16:1 17:1 18:1

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ACN 010 580 248

Client
FREECITY ROUSE HILL DEVELOPMENT

Title
STORMWATER POST DEVELOPMENT CATCHMENT PLAN

Project
TEMPUS STREET ROUSE HILL

Date: 11.03.25
Scale of A1: 1:200

Drawn: MARELLANO
Designer: NLY

Design Checker: AJANG
Approved: AJANG
RBG Project No: **24378**

NOT FOR CONSTRUCTION

Drawing Number: **24378-RBG-XX-XX-DR-CV-87410**

Revision: **P02**