EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC QLD PTY LTD

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C001	COVER SHEET
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN
C100	ROADWORKS AND DRAINAGE LAYOUT
C201	BULK EARTHWORKS LAYOUT
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2
C300	ROADWORKS NOTES AND DETAILS
C310	AMBER CIRCUIT LONGITUDINAL SECTION
C311	AMBER CIRCUIT CROSS SECTIONS
C312	MOSS STREET LONGITUDINAL SECTIONS
C313	MOSS STREET CROSS SECTIONS - SHEET 1 OF 2
C314	MOSS STREET CROSS SECTIONS - SHEET 2 OF 2
C315	BAMBOO ROAD LONGITUDINAL SECTION
C316	BAMBOO ROAD CROSS SECTIONS
C317	DRIVEWAY 3 LONG & CROSS SECTIONS
C330	INTERSECTION DETAILS LAYOUT
C340	PAVEMENT MARKINGS AND SIGNAGE LAYOUT
C350	ACOUSTIC FENCE LAYOUT PLAN
C400	STORMWATER CATCHMENT LAYOUT
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 2
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 2
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE NOTES AND DETAILS
C440	STORMWATER CALCULATIONS 39% AEP STORM
C441	STORMWATER CALCULATIONS 1% AEP STORM
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN
C520	SEWERAGE LONG SECTIONS - SHEET 1 OF 3
C521	SEWERAGE LONG SECTIONS - SHEET 2 OF 3
C522	SEWERAGE LONG SECTIONS - SHEET 3 OF 3
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN
C611	WATER RETICULATION LIVE CONNECTION DETAILS
C700	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS PHASE
C701	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE
C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2
C711	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE

GENERAL NOTES

1. ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
4. THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
6. CONSTRUCTION CERTIFICATION REQUIREMENTS SUCH AS PAVEMENT PROOF ROLLS ETC. ARE TO BE AS PER THE LOGAN CITY COUNCIL SPECIFICATION.
7. THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
8. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CONSTRUCTION MANAGEMENT PLAN FOR THE SITE TO BE ACCEPTED BY EDQ. THIS PLAN IS TO INCLUDE ALL ITEMS AS LISTED IN THE DECISION NOTICE AS A MINIMUM.

NOISE

1. ALL PLANT AND EQUIPMENT SHALL BE CONTROLLED TO MINIMISE NOISE EMISSION IN ACCORDANCE WITH AS2436 (GUIDE TO NOISE CONTROL ON CONSTRUCTION, MAINTENANCE AND DEMOLITION). THE SITE WORKING HOURS SHOULD BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. WHERE NOT SPECIFIED THE HOURS SHALL BE:

MONDAY - SATURDAY 7:00am to 6:00pm
SUNDAY OR PUBLIC HOLIDAY NO WORK PERMITTED

PRE-CONSTRUCTION & APPROVALS

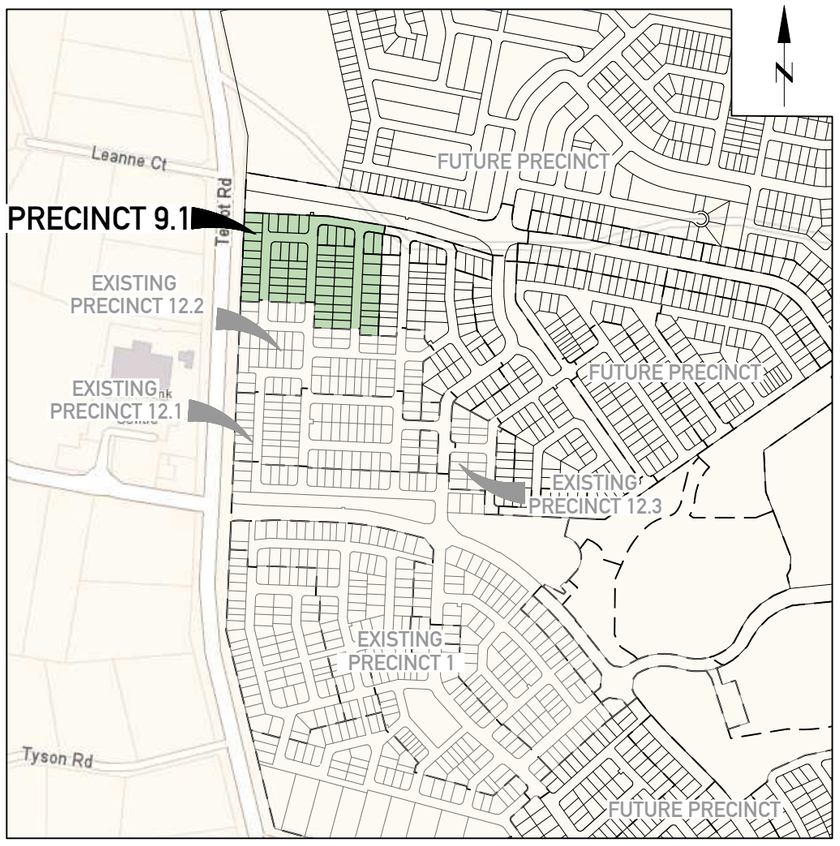
1. NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING WITH THE APPROPRIATE AUTHORITY FOR LOCATING EXISTING SERVICES AND FOR ANY MODIFICATIONS TO EXISTING SERVICES REQUIRED AS A RESULT OF THE WORKS.
3. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING SERVICES FROM DAMAGE.
4. ANY WORKS DAMAGED AS A RESULT OF CONSTRUCTION ARE TO BE REINSTATED TO RELEVANT AUTHORITY'S REQUIREMENTS AT THE CONTRACTORS COST.
5. FINISHED SURFACE LEVELS ARE TO BE GRADED UNIFORMLY BETWEEN LEVELS INDICATED ON THE DRAWINGS.

WORKPLACE HEALTH & SAFETY

1. THE CONTRACTOR SHALL BE THE PRINCIPAL CONTRACTOR AS DESIGNATED BY THE WORK HEALTH AND SAFETY ACT (2011).
2. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A WORKPLACE HEALTH AND SAFETY PLAN AS REQUIRED BY THE WORK HEALTH AND SAFETY ACT (2011).

SETOUT NOTES

1. CO-ORDINATE SETOUT PROVIDED ON THESE DRAWINGS IS BASED ON A CO-ORDINATE BASE PROVIDED ON THE DETAIL SURVEY DRAWING 7598 S 02 DTH, PREPARED BY SAUNDERS HAVILL GROUP. REFERENCE MARKS AND CORRESPONDING CO-ORDINATES ARE PROVIDED ON DRAWING C002.
2. THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).



LOCALITY PLAN
Scale 1:5000

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

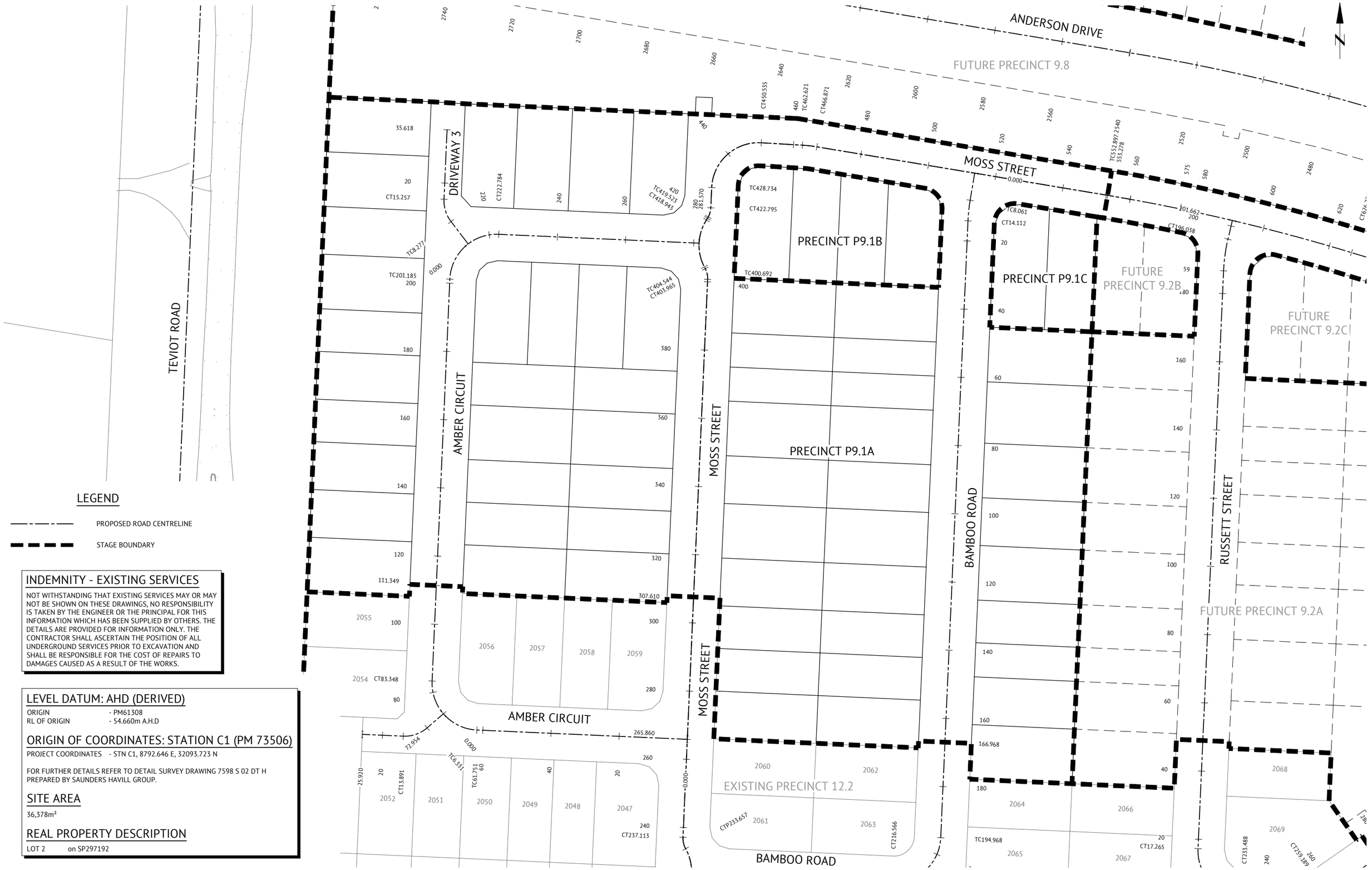
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 100 200 300m
SCALE 1:5000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE COVER SHEET

JOB CODE MIR009-01
SHEET NUMBER C001
REV B



LEGEND

PROPOSED ROAD CENTRELINE

STAGE BOUNDARY

INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

LEVEL DATUM: AHD (DERIVED)

ORIGIN - PM61308
RL OF ORIGIN - 54.660m A.H.D

ORIGIN OF COORDINATES: STATION C1 (PM 73506)

PROJECT COORDINATES - STN C1, 8792.646 E, 32093.723 N

FOR FURTHER DETAILS REFER TO DETAIL SURVEY DRAWING 7598 S 02 DT H PREPARED BY SAUNDERS HAVILL GROUP.

SITE AREA

36,378m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

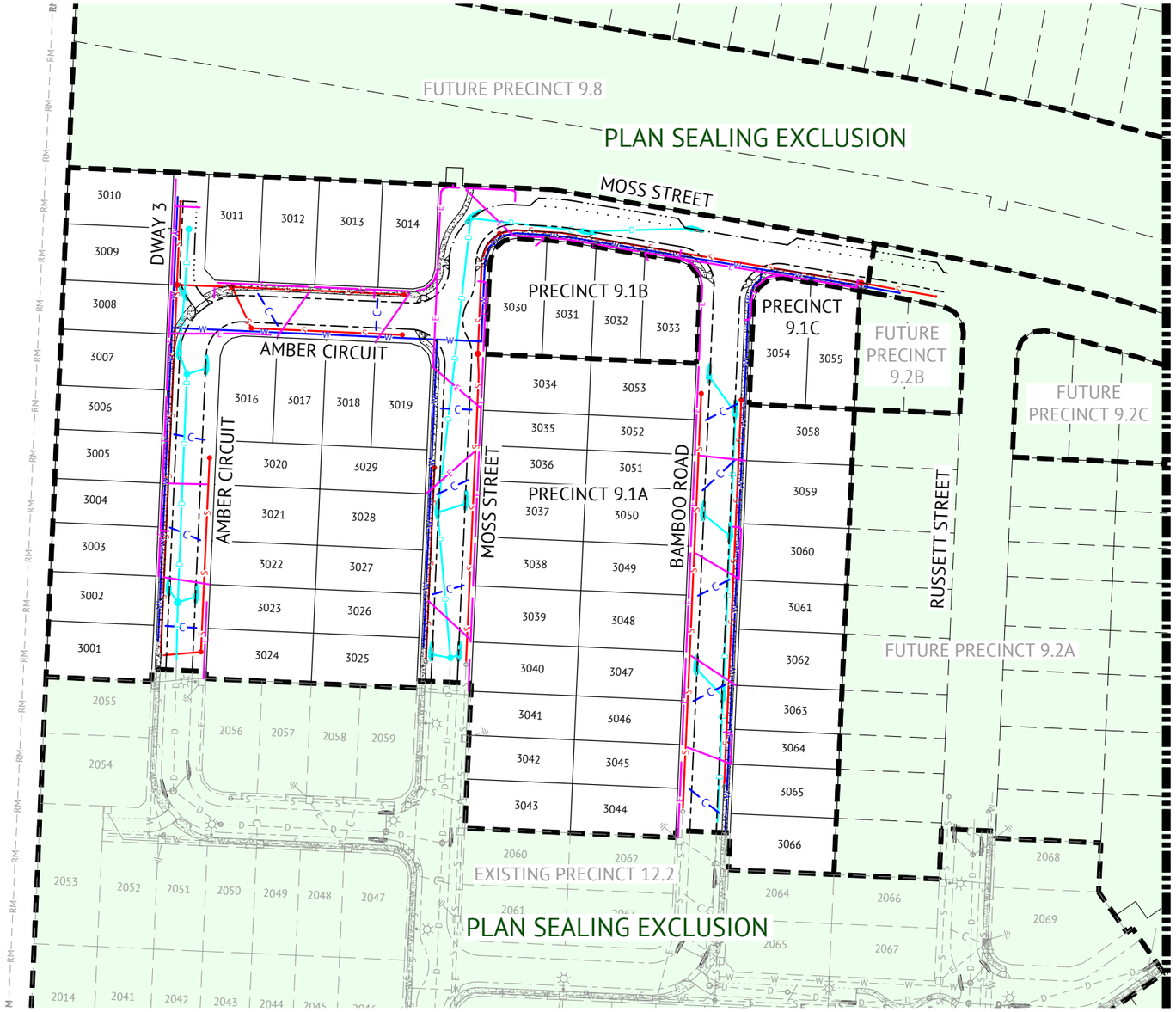
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SURVEY SETOUT PLAN

JOB CODE MIR009-01
SHEET NUMBER C002
REV B

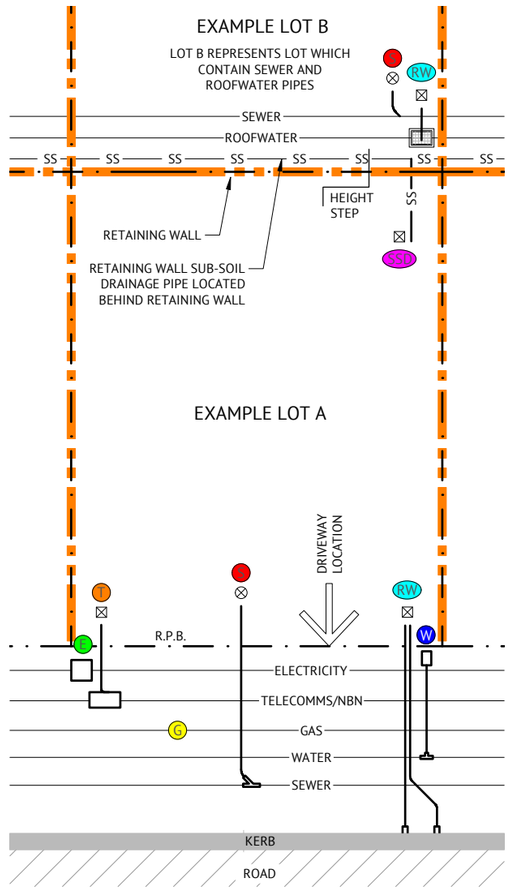


LEGEND - PROPOSED

D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
TS	TRUNK SEWER
W	WATER
E	ELECTRICITY

LEGEND - EXISTING

D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
TS	TRUNK SEWER
W	WATER
E	ELECTRICITY



TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL
NTS

LEGEND - PROPERTY SERVICE CONNECTIONS

WATER - POLY SERVICE FROM WATER MAIN, METER BOX & COVER INSTALLED. BUILDER TO MAKE APPLICATION TO LOGAN CITY COUNCIL FOR METER ASSEMBLY SUPPLY AND INSTALLATION. WHERE WATER METER IS LOCATED BEHIND RETAINING WALL, 25mm POLYPIPE WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900X50X25 HW STAKE LABELLED "WATER".

SEWER - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 40Ø ORANGE PVC CONDUIT SECURELY TAPED TO H.W. STAKE AT SURFACE (BURIED TO CAPPED PIPE). CONDUIT LABELLED "SEWER."

ROOFWATER - CONNECTION LOCATION CAN BE EITHER FRONT OF LOT VIA KERB ADAPTOR OUTLET TO ROAD, OR REAR OF LOT INTO ROOFWATER DRAINAGE PIPE VIA PIT. CAPPED PVC Ø100 PIPES (BURIED MAX 1.5m) MARKED WITH 900x50x25 HW STAKE LABELLED "ROOFWATER."

RETAINING WALL SUB-SOIL DRAINAGE - OUTLET POINT TO LOT FOR RETAINING WALL SUB-SOIL DRAINAGE TO BE CONNECTED TO YARD DRAINAGE BY BUILDER. Ø100 NON-SLOTTED AGG PIPE CAPPED AND TERMINATED 200m ABOVE SURFACE. PVC DUCT TAPED TO 900x50x25 HW STAKE LABELLED "RETAINING WALL SUBSOIL OUTLET".

TELECOMMUNICATIONS/NBN - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".

ELECTRICITY - ELECTRICITY PILLAR EXISTS IN ROAD VERGE. BUILDER TO MAKE APPLICATION WITH ENERGY PROVIDER FOR SERVICE INSTALLATION TO LOT. WHERE ELECTRICITY PILLAR IS LOCATED BEHIND RETAINING WALL, CONDUIT WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "ELECTRICITY".

GAS - GAS MAIN EXISTS IN ROAD VERGE. BUILDER/HOME OWNER TO MAKE APPLICATION TO GAS PROVIDER FOR SERVICE INSTALLATION TO LOT.

RETAINING WALL

SERVICE TERMINATION POINT MARKER. 900x50x25 HW STAKE, OR 40Ø ORANGE PVC CONDUIT STAKE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
		REVISIONS	REC	APP

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 15 30 45m
SCALE 1:750(A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE OVERALL SERVICES LAYOUT

JOB CODE MIR009-01
SHEET NUMBER C003
REV B

DESIGN HAZARD NOTES:

1. PREMISE, HAVING BEEN COMMISSIONED TO CARRY OUT DETAILED DESIGN AND DOCUMENTATION OF THESE WORKS, CONFIRM THAT THE PREMISE DRAWING SET HAS BEEN INTERNALLY REVIEWED FOR DESIGN SAFETY IN ACCORDANCE WITH SECTION 22 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD.
2. THIS REPORT SUMMARISES AN INTERNAL REVIEW OF PREMISE'S DETAILED DESIGN DRAWINGS FOR DESIGN SAFETY.
3. THIS REPORT IN NO WAY RELIEVES THE PRINCIPAL, CONTRACTOR OR ANY OTHER PARTY OF THEIR OWN OBLIGATIONS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD, INCLUDING (BUT NOT LIMITED TO) CONSULTATION WITH THE DESIGNER UNDER SECTION 294 OF THE ACT, THE PREPARATION OF SATISFACTORY SAFE WORK METHOD STATEMENTS AND DUTIES OF CARE.
4. IT IS A REQUIREMENT UNDER SECTION 296 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD, THAT A COPY OF THIS REPORT BE PROVIDED TO THE CONTRACTOR BY THE ENTITY COMMISSIONING THE WORK SHOWN OF THE PREMISE DRAWINGS.
5. AS PER THE DEPARTMENT OF JUSTICE AND THE ATTORNEY-GENERAL- WORKPLACE HEALTH AND SAFETY QUEENSLAND, A WRITTEN REPORT IS NOT REQUIRED FOR DESIGNS THAT HAVE TYPICAL FEATURES.

CONSEQUENCE TABLE

LEVEL	CONSEQUENCE	COST/TIME
5 - CATASTROPHIC	FATALITY OR MULTIPLE PERSONS ONSITE WITH LIFE THREATENING HEALTH EFFECT OR INABILITY TO CONTINUE	HUGE FINANCIAL OR TIME LOSS
4 - MAJOR	EXTENSIVE INJURIES, OR ONSET OF SEVERE OR LIFE THREATENING HEALTH EFFECT TO SINGLE PERSON ONSITE. MULTIPLE PERSONS WITH ONSET OF IRREVERSIBLE HEALTH EFFECTS. PREMANENT INJURT TO PERSON INSITE.	MAJOR FINANCIAL OR TIME LOSS
3 - MODERATE	MEDICAL TREATMENT REQUIRED. IRREVERSIBLE HEALTH EFFECT TO A SINGLE PERSON. MULTIPLE PERSONS ONSITE WITH REVERSIBLE HEALTH EFFECTS.	HIGH FINANCIAL OR TIME LOSS
2 - MINOR	FIRST AID, SINGLE OR MULTIPLE INJURIES AMONGST PERSONS ONSITE. SINGLE PERSON ONSITE WITH MODERATE SHORT TERM REVERSIBLE HEALTH EFFECTS.	MEDIUM FINANCIAL OR TIME LOSS
1 - INSIGNIFICANT	NO INJURIES. OVER EXPOSURE TO A SINGLE PERSON ONSITE, BUT NO REPORTED HEALTH EFFECTS.	LOW FINANCIAL OR TIME LOSS

CONSTRUCTION HAZARD NOTES:

1. UNDER THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011, THE WORK HEALTH AND SAFETY REGULATION 2011 AND OTHER LEGISLATION AND GUIDELINES, THE PRINCIPAL CONTRACTOR HAS SPECIFIC OBLIGATIONS IN RELATION TO THE SAFE OPERATION OF THE SITE AND OF THE WORKS.
   TO ASSIST THE PRINCIPAL CONTRACTOR IN COMPLYING WITH THESE OBLIGATIONS THE PROJECT DESIGNERS HAVE IDENTIFIED BY DRAWING NOTES, AREAS WHERE POTENTIAL HAZARDS MAY ARISE. THESE NOTES OR ADVICE, SHALL NOT NECESSARILY BE CONSIDERED COMPLETE AND ARE BASED UPON THE DESIGNERS' UNDERSTANDING OF THE SAFETY RISKS ASSOCIATED WITH THE WORKS.
   THESE NOTES OR ADVICE SHALL NOT RELIEVE THE PRINCIPAL CONTRACTOR OF ANY OBLIGATION UNDER THE RELEVANT LEGISLATION OR GUIDELINE. THE PRINCIPAL CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE PREPARATION OF AN APPROPRIATE WORK HEALTH SAFETY MANAGEMENT PLAN AND SAFE WORK METHOD STATEMENTS FOR THE SITE.
2. PURSUANT TO THE WORK HEALTH AND SAFETY ACT 2011 WE HEREBY ADVISE THAT OUR DESIGN SAFETY REVIEW HAS IDENTIFIED UNUSUAL OR ATYPICAL DESIGN FEATURES THAT MAY PRESENT ADDITIONAL HAZARDS OR RISKS DURING THE CONSTRUCTION PHASE AND THESE ARE LISTED IN THE CONSTRUCTION HAZARD SCHEDULE.

RISK ANALYSIS MATRIX

		1 - INSIGNIFICANT	2 - MINOR	3 - MODERATE	4 - MAJOR	5 - CATASTROPHIC
LIKELIHOOD	A - ALMOST CERTAIN	MODERATE	HIGH	EXTREME	EXTREME	EXTREME
	B - LIKELY	MODERATE	HIGH	HIGH	EXTREME	EXTREME
	C - POSSIBLE	LOW	MODERATE	HIGH	EXTREME	EXTREME
	D - UNLIKELY	LOW	LOW	MODERATE	HIGH	EXTREME
	E - RARE	LOW	LOW	MODERATE	HIGH	HIGH

RISK EVALUATION TABLE

RISK LEVEL	ACTION REQUIRED
EXTREME	UNACCEPTABLE RISK. RE-DESIGN REQUIRED. DO NOT PROCEED WITHOUT ADDITIONAL CONTROLS.
HIGH	UNACCEPTABLE RISK. ADDITIONAL CONTROLS NEEDED. CONSIDER FURTHER REVIEW AND CONSIDER RE-DESIGN
MODERATE	RISK MAY BE ACCEPTABLE. MANAGEMENT TO DETERMINE ACTIONS REQUIRED
LOW	ACCEPTABLE. MANAGE RISK THROUGH ROUTINE PROCEDURES AND OTHER ADMINISTRATIVE CONTROLS

LIKELIHOOD TABLE

LEVEL	DESCRIPTION	QUANTIFICATION GUIDE
A - ALMOST CERTAIN	THE EVENT IS EXPECTED TO OCCUR IN MOST CERTAIN CIRCUMSTANCES	MORE THAN ONCE PER YEAR
B - LIKELY	THE EVENT WILL PROBABLY OCCUR IN MOST CIRCUMSTANCES	AT LEAST ONCE IN 5 YEARS
C - POSSIBLE	THE EVEN T SHOULD OCCUR AT SOME TIME	AT LEAST ONCE IN 10 YEARS
D - UNLIKELY	THE EVENT COULD OCCUR AT SOME TIME	AT LEAST ONCE IN 30 YEARS
E - RARE	THE EVENT MAY OCCUR IN EXCEPTIONAL CIRCUMSTANCES	LESS THAN ONCE IN 30 YEARS

DESIGN HAZARD SCHEDULE

ITEM	DESIGN HAZARD	POTENTIAL HAZARD	RISK	ELIMINATION / MINIMISATION OF HAZARD / RISK	RESIDUAL RISK
D1	URBAN LAYOUT HAZARD	THE URBAN LAYOUT IS DESIGNED AROUND A PARTICULAR HAZARD :- - INTERSECTION IS UNCLEAR WHICH ROAD HAS PRIORITY	HIGH	THE HAZARD HAS BEEN REDUCED/ELIMINATED BY:- - LINE MARKED INTERSECTION TO ENSURE IT IS CLEAR WHICH ROAD HAS PRIORITY - DESIGN VEHICLE SWEPT PATH CHECKED FOR COMPLIANCE	LOW
D2	EXISTING UNDERGROUND / OVERHEAD SERVICES HAZARD	EXISTING UNDERGROUND AND/OR OVERHEAD SERVICES HAZARD EXIST ON SITE AND NEEDS TO BE REMOVED AND RELOCATED.	HIGH	THE DESIGN OF THE PROJECT HAS INCORPORATED THE RELOCATION OF THESE EXISTING SERVICES AND THE CONTRACTOR IS TO BE MADE AWARE OF THESE EXISTING SERVICES AND TAKE ALL ACTIONS NECESSARY TO MITIGATE THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D3	DEEP EXCAVATION HAZARD	DEEP EXCAVATION IS REQUIRED TO INSTALL SEWER TO SERVICE STRUCTURE.	HIGH	THE DEEP EXCAVATION HAZARD CANNOT BE AVOIDED AND THE CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D4	HIGH RETAINING WALLS	SOME AREAS OF WORKS CONTAIN HIGH RETAINING WALLS WHERE LAND MORPHOLOGY DICTATES.	HIGH	HIGH RETAINING WALLS CANNOT BE AVOIDED DUE TO EXISTING LAND MORPHOLOGY. SINGLE TIER WALLS HAVE LIMITED TO A MAX HEIGHT OF 2m. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEIDUM
D5	WATER BODIES	PROPOSED CONSTRUCTION WATER DAMS WILL BE PRESENT ON SITE.	MEDIUM	PROPOSED WATER BODIES HAVE BEEN LOCATED AWAY FROM PUBLIC ACCESS AREAS. ACCESS TO THESE LOCATION WILL BE RESTRICTED FROM THE PUBLIC. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	LOW

CONSTRUCTION HAZARD SCHEDULE

ITEM	POTENTIAL HAZARD	POSSIBLE PREVENTATIVE ACTION
C1	DEEP EXCAVATION HAZARD	ALL STEPS MUST BE TAKEN TO OBTAIN CURRENT UNDERGROUND SERVICES INFORMATION BEFORE EXCAVATION WORKS COMMENCE. EXCAVATION WORK MUST BE UNDERTAKEN BY APPROPRIATELY EXPERIENCED AND QUALIFIED PERSONNEL. EXCAVATIONS SHALL BE ADEQUATELY SHORED AND APPROPRIATE BARRICADES AND SIGNAGE ERECTED, IF REQUIRED.
C2	OVERHEAD POWER HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF LIVE OVERHEAD CABLES. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON SITE DURING EARTHWORKS AND ANY OTHER HIGH RISK WORKS, IF REQUIRED.
C3	UNDERGROUND ELECTRICAL, TELECOMMUNICATION, GAS AND WATER MAIN HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF THE EXISTING SERVICE. THE SERVICE SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON SITE DURING THE EXCAVATION WORK, IF REQUIRED.
C4	WORKS NEAR RAIL, AIRPORTS AND ROADS HAZARD	ALL REQUIRED PERMITS, APPROVALS AND SAFETY REQUIREMENTS FROM THE RELEVANT AUTHORITY SHOULD BE OBTAINED PRIOR TO COMMENCING WORK. A REPRESENTATIVE OF THE RELEVANT AUTHORITY SHALL REMAIN ON SITE DURING CONSTRUCTION WHILE THE HAZARD REMAINS.
C5	PEDESTRIAN ACCESS HAZARD	WORK WITHIN OR ADJACENT TO AREAS WHICH THE PUBLIC REQUIRES PEDESTRIAN ACCESS MUST HAVE APPROPRIATE BARRICADES AND SIGNAGE ERECTED AT ALL TIMES.
C6	POTENTIAL VEHICLE HAZARD	SITE PERSONNEL SHALL BE ADVISED OF THE POTENTIAL HAZARDS AND THE APPROPRIATE PROCEDURES FOR WORKING ADJACENT TO OPERATING PUBLIC ROADS. APPROPRIATE SAFETY CLOTHING SHALL BE WORN AND THE REQUIRED SIGNAGE SHALL BE ERECTED. THE WORKS SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF THE VEHICLE OCCUPANTS OR THE SITE PERSONNEL.
C7	DEMOLITION AND CLEARING HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE DEMOLITION AND CLEARING WORKS FOR THE PROJECT AT ALL TIMES. THE CONTRACTORS WORK METHOD STATEMENT SHALL ALSO GIVE CONSIDERATION TO FALLING DEBRIS, COLLAPSE AND DANGEROUS AIRBORNE AGENTS.
C8	TRAFFIC MANAGEMENT HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL DEVELOP A TRAFFIC MANAGEMENT PLAN (TMP) FOR THE PROJECT TO ESTABLISH APPROPRIATE CONTROLS IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL.
C9	ASBESTOS HAZARD	ALL PERSONNEL SHOULD BE ADVISED OF THE POTENTIAL PRESENCE OF ASBESTOS AND AN IDENTIFICATION AND ACTION PLAN SHALL BE PUT IN PLACE. SAMPLING AND IDENTIFICATION IS TO BE UNDERTAKEN IN ACCORDANCE WITH WORKPLACE HEALTH AND SAFETY REGULATIONS. IF SAMPLING CONFIRMS THE PRESENCE OF ASBESTOS THEN THE ACTION PLAN IS TO BE IMPLEMENTED TO REMEDIATE THE SITE.
C10	POTENTIAL ROCK FALL	LAND ABOVE THE SITE HAS BEEN CLEARED AND SOME EARTHWORKS HAS BEEN UNDERTAKEN CREATING A POTENTIAL ROCK FALL HAZARD. SUITABLE PERSONNEL SHALL BE RESPONSIBLE FOR IDENTIFYING ANY POTENTIAL HAZARD AND THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO ELIMINATE THE HAZARD.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112
SCALE
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC GROUP
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SAFETY IN DESIGN

JOB CODE MIR009-01
SHEET NUMBER C004
REV B

- CONTRACTOR TO ENSURE TEVIOT ROAD VERGE ADJACENT TO DEVELOPMENT LOTS GRADE TOWARDS THE ROAD. SUPERINTENDENT TO CONFIRM AND CONTACT DESIGNER IF GRADING VERGE TO ROAD IS UNFEASIBLE.

FUTURE PRECINCT 9.8

ANDERSON DRIVE

TEVIOT ROAD

MOSS STREET

DRIVEWAY 3

AMBER CIRCUIT

BAMBOO ROAD

PRECINCT 9.1B

PRECINCT 9.1A

PRECINCT 9.1C

FUTURE PRECINCT 9.2B

FUTURE PRECINCT 9.2A

EXISTING PRECINCT 12.2

PMT

CONSTRUCT CONCRETE EDGE RESTRAINT

TEMPORARY 3.0m WIDE SEWER EASEMENT CENTRALLY LOCATED OVER SEWER

6no. 1mx1m CONCRETE BIN PADS BEHIND KERB

SAW-CUT EXISTING PAVEMENT FOR NEAT CONNECTIONS OF NEW WORKS

SAW-CUT EXISTING PAVEMENT FOR NEAT CONNECTIONS OF NEW WORKS

SAW-CUT EXISTING PAVEMENT FOR NEAT CONNECTIONS OF NEW WORKS

PLAN SEALING EXCLUSION

PLAN SEALING EXCLUSION

LEGEND - PROPOSED

- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- D — PROPOSED STORMWATER
- 1/2 — PROPOSED STORMWATER STRUCTURE No.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C420.
- RW — PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- S — PROPOSED SEWER
- W — PROPOSED WATER
- C — C — C — PROPOSED WATER CONDUIT
- PMT — PAD MOUNTED TRANSFORMER
- PROPOSED LANDSCAPING WITHIN VERGE. CONCRETE EDGE RESTRAINT BY LANDSCAPING CONTRACTOR. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
- PROPOSED TREE LOCATION

LEGEND - EXISTING

- D — D — EXISTING STORMWATER
- S — S — EXISTING SEWER
- W — W — EXISTING WATER
- E — E — EXISTING ELECTRICAL
- T — T — EXISTING TELSTRA
- G — G — EXISTING GAS
- RM — RM — EXISTING RISING MAIN
- EXISTING RETAINING WALL
- 1/2 — EXISTING STORMWATER STRUCTURE No.

STORMWATER TRENCH BACKFILL NOTE:

ALL STORMWATER TRENCH BACKFILL MATERIAL SHALL BE SOURCED FROM ON SITE EXCAVATED MATERIAL.

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING No. C400 - STORMWATER DRAINAGE DETAILS AND NOTES.

PAVEMENT SUBGRADE GUARANTEE:

CONTRACTOR SHALL UNDERTAKE EARTHWORKS REQUIRED IN EITHER CUT OR FILL TO ENSURE THE SUBGRADE QUALITY IS AT CBR10 OR GREATER. CONTRACTOR TO LIAISE WITH OWN GEOTECHNICAL ENGINEER TO ACHIEVE REQUIREMENT.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

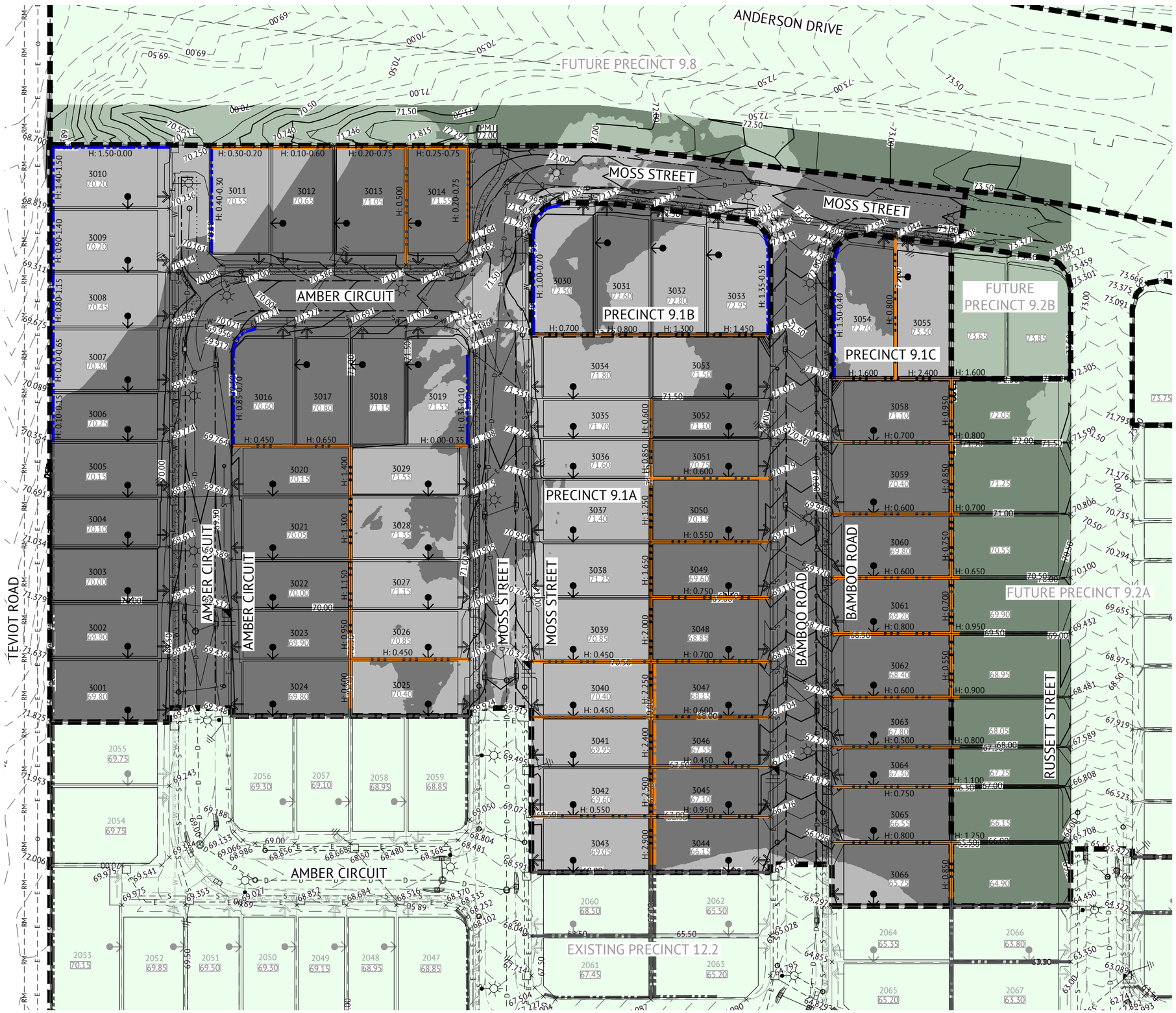
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROADWORKS AND DRAINAGE LAYOUT

JOB CODE: MIR009-01
SHEET NUMBER: C100
REV: B



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)
- 51.65 — FINISHED SURFACE LEVEL
- H1.0 — PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- H1.0 — PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- 58.25 × — FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- PMT — PAD MOUNTED TRANSFORMER
- STAGE BOUNDARY

LEGEND - EXISTING

- EXISTING RETAINING WALL
- 12.0 — EXISTING CONTOURS (0.50m)
- D — EXISTING STORMWATER
- S — EXISTING SEWER
- TS — EXISTING TRUNK SEWER
- RM — EXISTING SEWER RISING MAIN
- W — EXISTING WATER
- E — EXISTING ELECTRICITY
- T — EXISTING TELECOMMUNICATIONS
- G — EXISTING GAS
- VEGETATION CLEARING EXTENT

NOTES

1. REFER TO BULK EARTHWORKS NOTES & DETAILS DRAWINGS FOR:
   - EARTHWORKS NOTES AND DETAILS
   - RETAINING WALL NOTES AND DETAILS
2. PROPOSED SERVICES ARE WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS AND DETAILS.
3. EXISTING DWELLINGS, FENCES ETC TO BE DEMOLISHED AND REMOVED OFF SITE BY OTHERS (UNLESS NOTED OTHERWISE)
4. FINAL RETAINING WALL TYPES AND FINISHES SHALL BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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03/09/2021	A	ORIGINAL ISSUE	KK	PB

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PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS LAYOUT

JOB CODE MIR009-01
SHEET NUMBER C201
REV B

NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL ONE' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES AND AS3798.
4. EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
5. ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.
6. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE FULL PERIMETER BOUNDARY INCLUDING APPROPRIATE SIGNAGE.

TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS. FAILED TESTS WILL BE AT THE CONTRACTOR'S EXPENSE.

EARTHWORKS TESTING

1. COMPACTION TESTS

LOCATION	AREA PER TEST
FINISHED LEVEL OR ROAD SUBGRADE (IN CUT OR FILL)	REFER TO THE LOCAL AUTHORITY SPECIFICATION
LOWEST TWO LEVELS OF EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND UNDER EMBANKMENT	

2. QUALITY TESTS
   QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
3. SUBGRADE TESTS
   THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE IN ACCORDANCE WITH LOGAN CITY COUNCIL SPECIFICATION REQUIREMENTS.

DUST

1. NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE. DUST CONTROL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AS/NZS3580.10.1:2003. DUST CONTROL SHALL COMPLY WITH THE NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION REPORT "APPROVED METHODS & GUIDANCE FOR THE MODELLNG AND ASSESSMENT OF AIR POLLUTANTS IN NSW."
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

FILL MANAGEMENT

1. ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE FILL SPECIFICATION PROVIDED ON THIS SHEET, OR WHERE PROVIDED, THE REQUIREMENTS OF THE GEOTECHNICAL REPORT SPECIFIC TO THIS CONTRACT.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
5. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
6. DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
7. ALL COMPLIANCE TESTING SHALL BE CARRIED OUT BY THE GEOTECHNICAL ENGINEER WHO WILL BE ENGAGED BY THE PRINCIPAL CONTRACTOR. ANY/ALL TESTING NECESSARY FOR GUIDANCE OR RE-TESTS WILL BE AT THE COST OF THE CONTRACTOR.
8. THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
9. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
10. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
11. ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON THE EROSION AND SEDIMENT CONTROL DRAWINGS.
12. SITE ACCESS TO AND ACROSS THE SITE ARE SUBJECT TO SUPERINTENDENT APPROVAL.

TOPSOIL RESPREAD REQUIREMENTS

TOPSOIL RESPREAD THICKNESS SHALL BE AS SPECIFIED BELOW IN THE FOLLOWING AREAS:

- REFER TO EROSION & SEDIMENT CONTROL - STABILISATION PHASE DRAWING FOR TOPSOIL RESPREAD LOCATIONS AND THICKNESS.

TURF

CONTRACTOR SHALL SUPPLY AND LAY TURF AS SPECIFIED IN THE FOLLOWING AREAS:

- REFER TO EROSION & SEDIMENT CONTROL - STABILISATION PHASE DRAWING FOR TURF SUPPLY AND LAY AREAS.

TRENCH SPOIL

EXCESS TRENCH SPOIL MATERIAL GENERATED BY THIS CONTRACT SHALL BE PLACED EITHER WITHIN THE FILL ZONE NOMINATED ON THE EARTHWORKS DRAWINGS OR WITHIN A FILL ZONE NOMINATED BY THE SUPERINTENDENT THAT SHALL BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCEMENT. FILL TO BE PLACED UNDER LEVEL 1 SUPERVISION AND IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION.

TRENCH BACKFILL

CBR15 STORMWATER TRENCH BACKFILL MATERIAL SHALL BE SOURCED FROM ON SITE EXCAVATED MATERIAL.

EXCAVATION IN ROCK

CONTRACT SHALL INCLUDE TREATING, SIZING, CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED TO ENSURE THAT FILL SPECIFICATION AND LEVEL ONE CERTIFICATION IS ACHIEVED.

EVERLEIGH EARTHWORKS TOLERANCE TABLE

ITEM	TOLERANCE
EARTHWORKS IN ALLOTMENTS AND VERGES[a]	EWL or FSL +/- 50mm
CUT BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 150mm[b]
FILL BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 300mm[b]
EARTHWORKS IN PARKS	EWL or FSL +/- 50mm

[a] TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.
[b] MEASURED FROM THE AVERAGE SLOPE PLANE.

TOLERANCE NOTES

1. EARTHWORKS LEVEL (EWL) IS 100mm BELOW FINISHED SURFACE LEVEL (FSL) ON ALLOTMENTS (TOPSOIL RESPREAD THICKNESS).
2. FINISHED SURFACE LEVEL (FSL) IS TOP OF TURF / STABILISED TOPSOIL LEVEL.
3. ROADWORKS SUBGRADE, PAVEMENT, ASPHALT CONSTRUCTION LEVEL TOLERANCES AS PER LCC PSP No. 5.
4. STORMWATER DRAINAGE CONSTRUCTION LEVEL TOLERANCES AS PER LCC PSP No. 5.
5. SEWER AND WATER RETICULATION CONSTRUCTION LEVEL TOLERANCES AS PER SEQ D&C CODE.

DISPERSIVE SOILS MANAGEMENT NOTES

1. DISPERSIVE SOIL TREATMENT MEASURES IN THE FOLLOWING AREAS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE EVERLEIGH DISPERSIVE SOIL MANAGEMENT:
   - WITHIN SERVICE TRENCHES
   - SURFACE AREAS SURROUNDING STORMWATER HEADWALLS
   - TURF/LANDSCAPED AREAS SUBJECT TO WATER FLOW
   - TURF/LANDSCAPED AREAS SUBJECT TO WATER PONDING
2. STABILISATION OF DISTURBED AREAS AND MANAGEMENT OF EROSION AND SEDIMENT SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS IN THIS DRAWING SET.
3. CONTRACTOR MUST CONSTRUCT AND ESTABLISH THE EROSION AND SEDIMENT CONTROL DEVICES, CONSTRUCTION WATER HOLDING DAM AND HES BASIN PRIOR TO COMMENCING EARTHWORKS OPERATION.
4. ALL DISTURBED AREAS SHALL BE STABILISED AS SOON AS PRACTICABLE (BUT NOT MORE THAN 10 DAYS) FOLLOWING FINALISATION OF LEVELS. STABILISATION TO BE IN ACCORDANCE WITH EROSION & SEDIMENT CONTROL - STABILISATION PHASE.

TOPSOIL AMELIORATION

ONSITE STRIPPED TOPSOIL SHALL BE AMELIORATED PRIOR TO RESPREAD. THE FOLLOWING AMELIORATION SPECIFICATIONS SHALL APPLY:

A-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- ON-SITE COMPOST INCORPORATION (0.15kg/m^3 OF TOPSOIL)
- DOLOMITE (15kg/m^3 OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m^3 OF TOPSOIL)
- FERTILISER (0.4kg/m^3 OF TOPSOIL)

B-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- DOLOMITE (15kg/m^3 OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m^3 OF TOPSOIL)
- FERTILISER (0.4kg/m^3 OF TOPSOIL)

ROCK TREATMENT IN ALLOTMENTS

WHERE ALLOTMENTS ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 500mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL), AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.

ALL CUT LOTS WHICH ARE NOT LOCATED IN ROCK MUST ACHIEVE 100kPa BEARING CAPACITY. WHERE THIS CAN'T BE ACHIEVED, THE CONTRACTOR SHALL RECTIFY THE SUBGRADE IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION TO ACHIEVE A 100kPa BEARING CAPACITY.

ROCK TREATMENT IN VERGES

WHERE ROAD RESERVES ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 1000mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL) AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.

EARTHWORKS SPECIFICATION

SPECIFICATION	DEPTH RANGE (m)				PAVEMENT SUBGRADE	TRENCH BACKFILL
	0.0 - 0.6	0.6 - 3.00	3.00 - 5.00	> 5.00		
CBR %	-	-	-	-	10	15
LAYER THICKNESS (mm)	300	300	300	300	BETWEEN SUBGRADE AND 0.3m BELOW	300
MAXIMUM PARTICLE SIZE (mm)	200	500	500	500	200	200
% PASSING 37.5mm	80% MIN	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES
% PASSING 0.075mm	30% MIN	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES AND AS3798
COMPACTION	95% STD	95% STD	95% STD	95% STD	100% STD	95% MOD IN ROADS AND 95% STD OUTSIDE ROADS
MOISTURE	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	60% - 90% OF OMC	+/- 2% OMC

NOTES:

1. OMC - OPTIMUM MOISTURE CONTENT
2. LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL.
3. TREATMENT OF ROCK TO SIZES ABOVE SHOULD BE CARRIED OUT IN CUT PRIOR TO LOADING TO FILL AREAS. TREATED ROCK TO BE APPROVED BY GITA PRIOR TO TRANSPORTING.
4. UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.
5. PROOF ROLL TESTING ON EACH COMPACTED LAYER USING RUBBER WHEELED PLANT SUCH AS LOADED ADT'S OR LOADED SCRAPERS. UNFAVOURABLE DEFORMATION OF THE COMPACTED SURFACE UNDER LOAD OF ADT'S OR SCRAPERS WILL REQUIRE REPAIR PRIOR TO ADDITIONAL PLACEMENT.
6. MECHANICAL INTERLOCK METHODOLOGY IS NOT APPROPRIATE DUE TO POOR DURABILITY OF SITE WON SANDSTONE. FILL COMPOSITION IS REQUIRED TO INCLUDE AN APPROPRIATE SAND GRAVEL AND FINES COMPONENT CONFORMING TO THE REQUIREMENTS OF AS798.

KEY OUTCOMES FOR EARTHWORKS OPERATIONS

1. DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS
2. FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m
3. CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS
4. BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT
5. MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE
   - CUTS IN ROCK AS WELL AS BLENDED WITH
   - CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS
6. CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289

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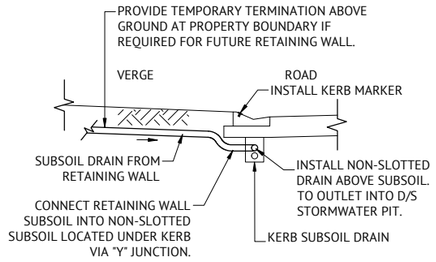
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2

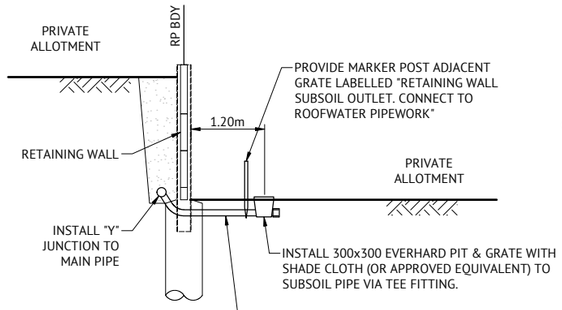
JOB CODE MIR009-01
SHEET NUMBER C210
REV B



SHALL BE INSTALLED FOR ALL RETAINING WALLS LOCATED ON INTERALLOTMENT BOUNDARIES.

TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD

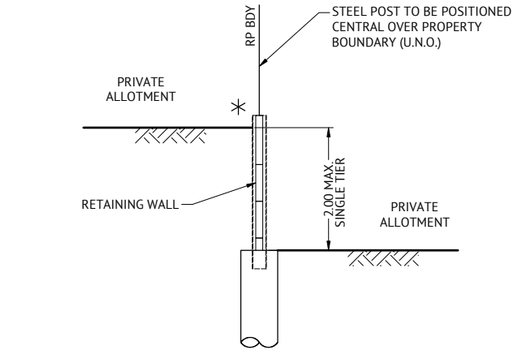
N.T.S.



SHALL BE INSTALLED IN REAR CORNER OF ALL ALLOTMENTS LOCATED BELOW A RETAINING WALL.

TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS

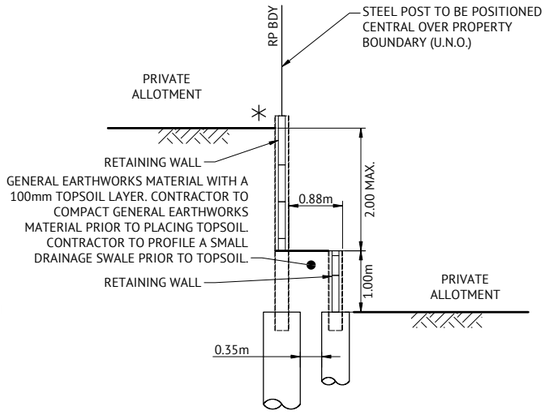
N.T.S.



TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

0.4m-2m MAX HIGH

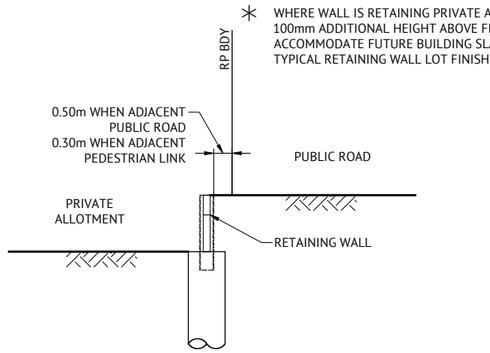
N.T.S.



TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

2m-3m MAX HIGH

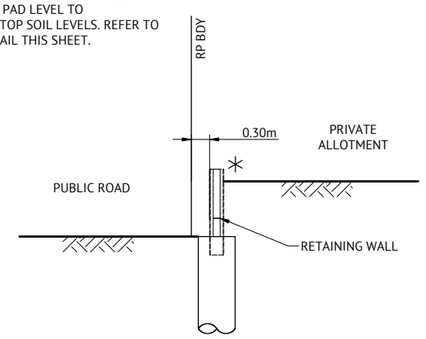
N.T.S.



TYPICAL RETAINING WALL DETAIL

ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER

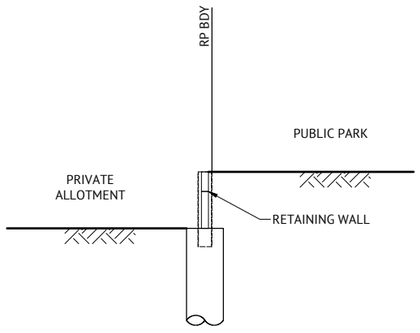
N.T.S.



TYPICAL RETAINING WALL DETAIL

ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

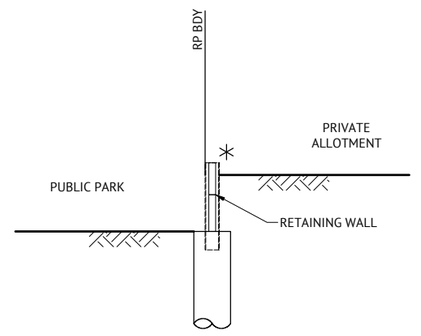
N.T.S.



TYPICAL RETAINING WALL DETAIL

PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER

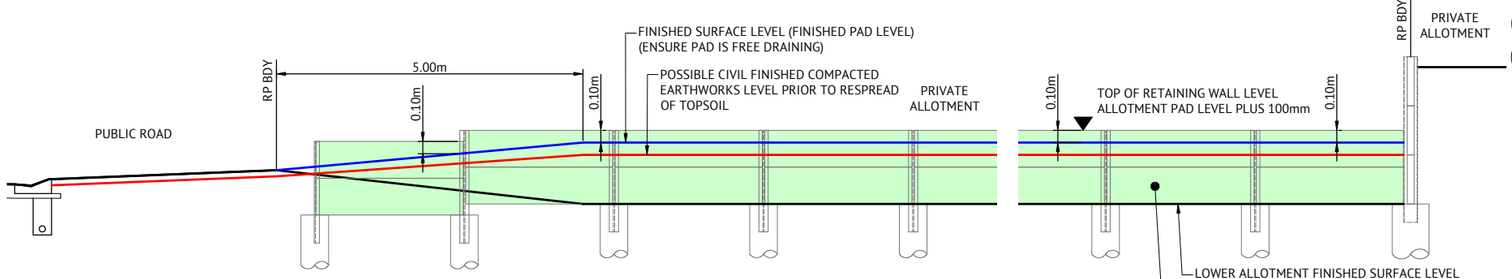
N.T.S.



TYPICAL RETAINING WALL DETAIL

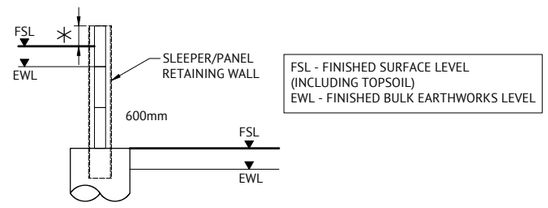
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

N.T.S.



TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL SETOUT AND END DETAIL

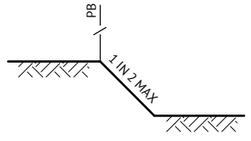
N.T.S



FSL - FINISHED SURFACE LEVEL (INCLUDING TOPSOIL)
EWL - FINISHED BULK EARTHWORKS LEVEL

TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL

N.T.S.



TYPICAL SECTION FOR BATTERS BETWEEN LOTS

SCALE 1:20

RETAINING WALL DESIGN:

- ALL RETAINING WALLS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION RETAINING WALL SPECIFICATION" PREPARED BY PREMISE ENGINEERING.
- RETAINING WALLS ARE TO BE DESIGNED TO ACHIEVE A MINIMUM OF 50 YEAR DESIGN LIFE.
- RETAINING WALLS ARE TO BE DESIGNED IN ACCORDANCE WITH THE AS4678- EARTH RETAINING STRUCTURES AND RELEVANT MATERIAL STANDARDS (E.G AS3600- CONCRETE STRUCTURES).

RETAINING WALL SUBSOIL DRAINAGE OUTLET DESIGN:

RETAINING WALL SUBSOIL DRAINAGE PIPE OUTLET LOCATIONS SHALL BE IN ACCORDANCE WITH THE EVERLEIGH RETAINING WALL DESIGN SPECIFICATION. THE PRINCIPAL CIVIL CONTRACTOR SHALL DETERMINE THE LOCATION OF RETAINING WALL SUBSOIL DRAINAGE PIPES IN ACCORDANCE WITH THE EVERLEIGH RETAINING WALL DESIGN SPECIFICATION AND PROVIDE PROPOSAL TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCING RETAINING WALL CONSTRUCTION.

RETAINING WALL SHOP DRAWINGS

CONTRACTOR MUST PREPARE RETAINING WALL SHOP DRAWINGS FOR APPROVAL BY SUPERINTENDENT PRIOR TO COMMENCING RETAINING WALL CONSTRUCTION. SHOP DRAWINGS ARE TO DETAIL THE FOLLOWING ELEMENTS:

- ELEVATIONS OF ALL PROPOSED RETAINING WALLS AND ACOUSTIC FENCES
- TOP AND BOTTOM RLS TO SLEEPER/PANEL
- FINISHED PAD/ROAD SURFACE LEVELS
- DIMENSIONS OF RETAINING WALL END FINISHING CONFIGURATION, OFFSETS FROM BOUNDARIES
- POST DETAILS FOR INTRICATE INTERSECTION POINTS

PROPERTY SERVICES UNDER RETAINING WALLS:

CONTRACTOR SHALL REFER TO ALL LATEST SERVICE DRAWINGS TO ENSURE PROVISIONS ARE MADE FOR ALL PROPERTY SERVICE CONNECTIONS UNDER RETAINING WALLS.

PAD MOUNTED TRANSFORMER NOTE

- RETAINING WALLS AND THEIR FOOTINGS SHALL NOT ENCROACH INTO THE PMT SITE (AS PER RETAINING WALLS LOCATED ADJACENT ROAD RESERVES DETAIL) UNLESS THE RETAINING WALL SPECIFIED IS AN ENERGEX STANDARD MASONRY WALL.
- RETAINING WALL DESIGN SHALL CONSIDER ENERGEX REQUREMENT WHERE RETAINING WALLS ARE LOCATED WITHIN 2m OF PMT SITE.

RETAINING WALL TYPE

PRIVATE FACING RETAINING WALLS:
CONCRETE SLEEPER RETAINING WALL. TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT (COLOUR WARM GREY 10C). DESIGN SPECIFICATION BY MANUFACTURER.

PUBLIC FACING RETAINING WALLS:
CONCRETE PANEL RETAINING WALL. 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER.

FENCE BRACKETS

PROVIDE FENCE BRACKETS TO ALL RETAINING WALLS.
NO BRACKETS TO BE PROVIDED WITHIN THE FIRST 5m FROM FRONT BOUNDARY FOR INTER-ALLOTMENT RETAINING WALLS.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
15/10/2021	B	UPDATED RETAINING WALL NOTE	AL	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112
SCALE NTS
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2

JOB CODE MIR009-01
SHEET NUMBER C211
REV C

NOTES

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
2. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
3. THE CONTRACTOR IS TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE COST OF RECTIFICATION OF ANY DAMAGES TO EXISTING SERVICES WHICH MAY OCCUR. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY.
4. SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION. TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
5. ALLOTMENT FILLING TO BE COMPACTED TO 95% (min) OF THE R.D.D. (AS 1289 - TESTS E1.1, E4.1).
6. LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.
7. LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS APPROVED BY THE SUPERINTENDENT TO ACHIEVE SATISFACTORY CONNECTION TO THE EXISTING WORKS.
8. SIDE DRAINS AND MITRE DRAINS TO BE CONSTRUCTED ADJACENT TO ALL KERB AND CHANNEL.
9. PROVIDE FLUSH POINTS TO SUBSOIL DRAINS, LOCATIONS TO BE CONFIRMED ON SITE.
10. ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION. ALL PIPES ARE 375mm DIAMETER U.N.O.
11. GULLIES AND GULLY GRATES SHALL BE TO STD. DRGs BSD-8051 - BSD-8059.
12. KACEY GALV. STEEL KERB ADAPTORS ARE TO BE INSTALLED TO THE REQUIREMENTS OF THE LOCAL COUNCILS STANDARD DRAWINGS AND SPECIFICATIONS.
13. ALL LOTS SHOWN BOXED TO HAVE ROOFWATER FOOTPATH CROSSINGS TO KERB. CROSSINGS ARE TO BE 88.9 DIA. GALV. CHS.TO KACEY KERB ADAPTOR.
14. ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
15. ROOFWATER PITS ARE TO BE 600mm DIAMETER FOR DEPTHS LESS THAN 750mm, 900mm DIAMETER FOR DEPTHS BETWEEN 750mm AND 1500mm DEEP AND 1050mm DIAMETER FOR DEPTHS GREATER THAN 1500mm.
16. ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
17. HAZARD MARKERS (D4-4A) TO BE PLACED AT THE END OF NEW WORKS AS DIRECTED BY SUPERINTENDENT.
18. SITE CBR VALUE AND PAVEMENT DESIGN AND DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
19. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
20. TO BE READ IN CONJUNCTION WITH ALL STORMWATER DRAINAGE LAYOUT PLANS & ROADWORKS DETAILS.

ROADWORKS NOTES

1. GEOTECHNICAL TESTING FOR PAVEMENT CONSTRUCTION IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION. TEST CERTIFICATES ARE TO BE PREPARED BY A REGISTERED N.A.T.A. LABORATORY AT THE CONTRACTORS COST AND SHALL BE PROVIDED TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
2. FULL DEPTH PAVEMENT CONSTRUCTION SHALL EXTEND BEHIND ALL KERB AND KERB AND CHANNEL FOR A DISTANCE WHICH IS THE GREATER OF 150mm FROM THE BACK OF KERB OR ACROSS TO THE OUTER LIMIT OF SIDE DRAIN FILTER MATERIAL.
3. TRANSITION KERB AND CHANNEL TO BARRIER KERB SMOOTHLY OVER MIN. 1.0m LENGTH.
4. PAVEMENT THICKNESSES NOMINATED ON THESE DRAWINGS ARE PROVISIONAL ONLY AND MAY BE VARIED BY THE SUPERINTENDENT SUBJECT TO INSITU PAVEMENT SUBGRADE TESTING. PAVEMENT SUBGRADES ARE TO BE INITIALLY CONSTRUCTED TO THE UNDERSIDE OF THE NOMINATED LOWER SUBBASE COURSE WITHIN FILL AREAS, AND TO THE UNDERSIDE OF THE NOMINATED UPPER SUBBASE COURSE WITHIN CUT AREAS. INSITU SUBGRADE CBR TESTING AS SPECIFIED FOR PAVEMENT DESIGN VERIFICATION IS TO BE CARRIED OUT AT THESE LEVELS.
5. REPAIR ANY DAMAGE TO EXISTING KERB AND CHANNEL, FOOTPATH OR ROADWAY (INCLUDING REMOVAL OF CONCRETE SLURRY FROM FOOTPATHS, ROADS, KERB AND CHANNEL AND STORMWATER GULLIES AND SIDEDRAINS) THAT MAY OCCUR DURING ANY WORKS CARRIED OUT.

CONCRETE PAVEMENT

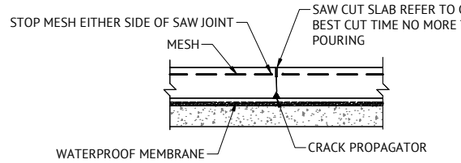
1. THE CONCRETE PAVEMENT HAS BEEN DESIGNED BASED ON A CBR 5 AND IS SUBJECT TO CONFIRMATION UPON RECEIPT OF CBR TEST RESULT AT TIME OF CONSTRUCTION.
2. CONCRETE PAVEMENT SPECIFICATION:

COMPRESSIVE STRENGTH:	25 MPa @ 28 DAYS
FLEXURAL STRENGTH:	3.5 MPa @28 DAYS
MAXIMUM AGGREGATE SIZE:	20mm
SLUMP:	80mm+15mm
MESH:	SL72, 50 TOP COVER
BEDDING:	100mm MIN CBR 15 BEDDING

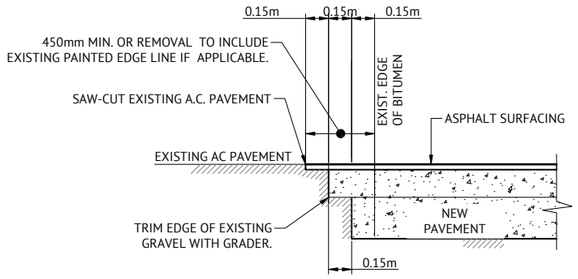
3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
4. PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
5. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
6. ALL JOINTS ARE TO BE SEALED JUST PRIOR TO HANDOVER WITH DOW CORNING '888' SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURING RECOMMENDATIONS.
7. JOINTS ARE TO BE INSPECTED AND SEALANT REGULARLY REPLACED IF REQUIRED.
8. DIMENSIONAL TOLERANCES OF AS3600, MODIFIED BY AS3610, SHALL APPLY UNLESS OTHERWISE NOTED. SLAB SURFACE FLATNESS TOLERANCE SHALL BE 5mm MAXIMUM DEVIATION FOR A 3m STRAIGHT EDGE.
9. CONCRETE PAVEMENTS ARE TO BE BROOM FINISHED. SLAB THICKNESSES NOTED ARE EXCLUSIVE OF APPLIED FINISHES
10. CURE ALL CONCRETE BY AN APPROVED METHOD FOR 7 DAYS AFTER HARDENING. PVA AND RESIN BASED CURING COMPOUNDS SHALL NOT BE USED.

CONCRETE PAVEMENT MAINTENANCE NOTES

1. NOTE THAT UPKEEP AND REPLACEMENT OF SEALANTS IS PART OF THE ONGOING MAINTENANCE REQUIREMENTS FOR THIS SITE.
2. NOTE THAT SHRINKAGE CRACKS OF WIDTH < 1.5mm MAY OCCUR IN CONCRETE PAVEMENTS WITHIN 12 MONTHS OF INITIAL CASTING.
3. NOTE THAT THE PAVEMENT WILL NOT BE MAINTENANCE FREE FOR ITS DESIGN LIFE.
4. INSPECT FLUSH SIDE DRAINS AND SUBSOIL DRAINS EVERY 12 MONTHS.

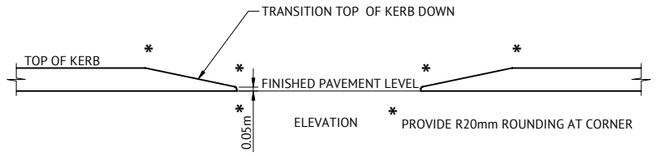


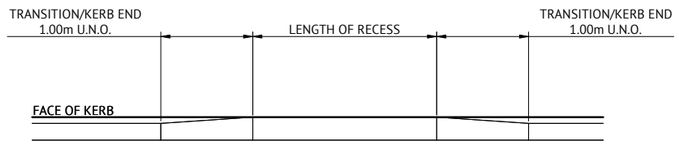
SAWCUT JOINT (SJ.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S

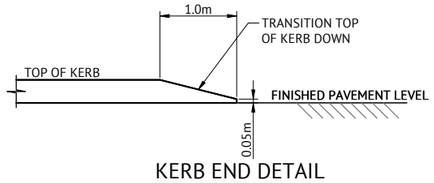




PLAN

NOTE: REFER LAYOUT PLAN FOR TRANSITION RECESS & KERB END LOCATIONS & LENGTHS

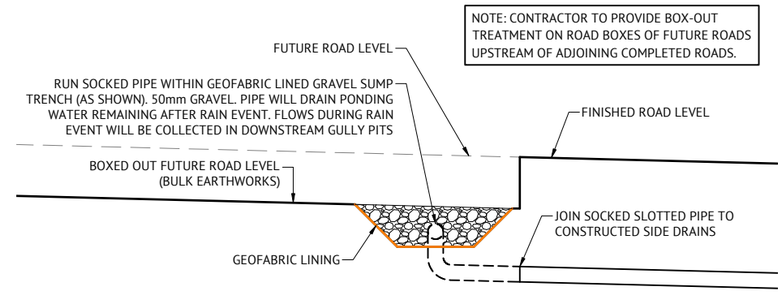
TYPICAL KERB RECESS / END DETAIL



KERB END DETAIL

CONCRETE REQUIREMENTS

ITEM	28 DAY STRENGTH	CONCRETE CYLINDER TEST	TESTING FREQUENCY
KERB & CHANNEL	N32	REQUIRED	1 TEST PER 300m
VEHICULAR CROSSINGS	N25	REQUIRED	1 TEST PER CROSSING
BIKEWAYS	N25	REQUIRED	1 TEST PER 300m
FOOTPATHS	N25	REQUIRED	1 TEST PER 300m
CONCRETE CHANNELS	N25	REQUIRED	1 TEST PER 150m^2
STRUCTURES	AS DESIGN	REQUIRED	AS DIRECTED
ROOFWATER MH'S	N20	NOT REQUIRED	
STORMWATER MH'S	N25	NOT REQUIRED	
PRECAST MANHOLE ROOF SLABS	N40	NOT REQUIRED	
GULLY PITS			
.. PRECAST LINTEL	N30	NOT REQUIRED	
.. OTHER	N25	NOT REQUIRED	



TYPICAL FUTURE ROADS BOX-OUT TREATMENT

SCALE 1:20

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 0.4 0.8 1.2m
SCALE 1:20 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC GROUP
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROADWORKS NOTES AND DETAILS

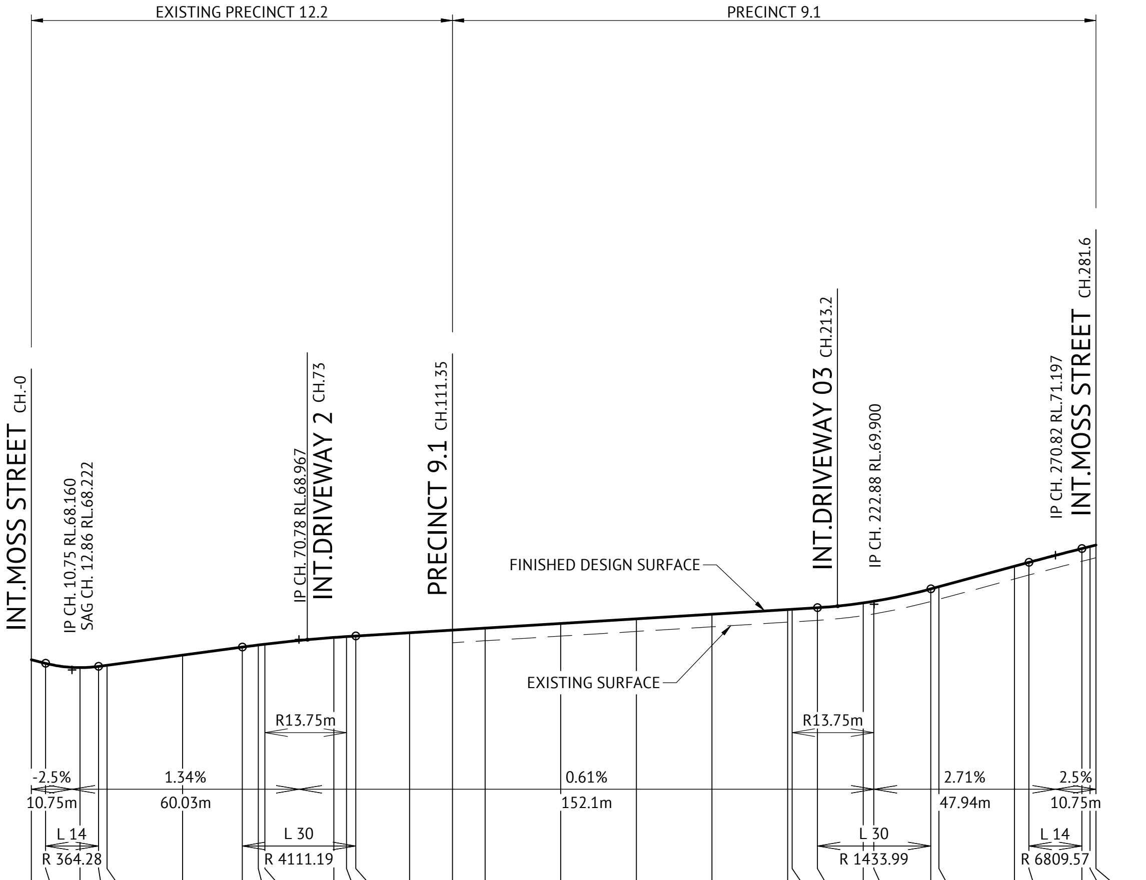
JOB CODE MIR009-01
SHEET NUMBER C300
REV B

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	AMBER CIRCUIT
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

* REFER TO INTERSECTION DETAILS PLANS



DATUM R.L.62.0

CUT (-)/FILL DEPTH	0.000	-0.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
LHS LIP LEVEL				68.168	68.198	68.466	68.678	68.733	68.754	68.932	68.956	68.972	69.059	69.129	69.182	69.305	69.427	69.550	69.673	69.680	69.721	69.847	69.890	70.219	70.276	70.817	70.921		*	
RHS LIP LEVEL				68.168	68.198	68.466	68.678	68.733	68.754	68.932	68.956	68.972	69.059	69.129	69.182	69.305	69.427	69.550	69.673	69.680	69.721	69.847	69.890	70.219	70.276	70.817	70.921		*	
DESIGN SURFACE	68.429	68.335	68.222	68.255	68.285	68.553	68.765	68.820	68.841	69.019	69.043	69.059	69.146	69.216	69.269	69.392	69.514	69.637	69.760	69.767	69.808	69.934	69.977	70.306	70.363	70.904	71.008	71.372	71.427	71.466
NATURAL SURFACE	68.429	68.336	68.222	68.255	68.285	68.553	68.765	68.820	68.841	69.019	69.043	69.059	69.146	69.216	68.934	69.057	69.179	69.302	69.425	69.432	69.473	69.599	69.642	69.971	70.028	70.569	70.673	71.037	71.092	71.131
CHAINAGE	-0.00	3.75	12.86	17.75	20.00	40.00	55.78	60.00	61.75	80.00	83.35	85.78	100.00	111.35	120.00	140.00	160.00	180.00	200.00	201.18	207.88	220.00	222.78	237.88	240.00	260.00	263.82	277.82	280.00	281.57

AMBER CIRCUIT LONGITUDINAL SECTION

SCALE 1:1000(H) 1:100(V)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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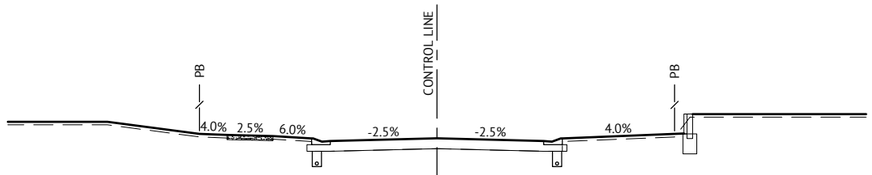
DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

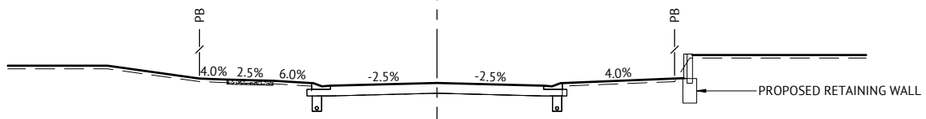
SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE AMBER CIRCUIT LONGITUDINAL SECTION

JOB CODE MIR009-01
SHEET NUMBER C310
REV B



CHAINAGE 200 DATUM R.L. 66.00



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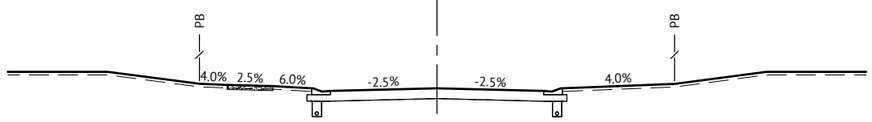

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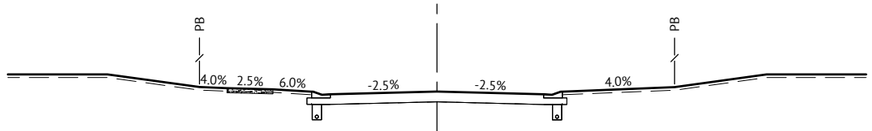

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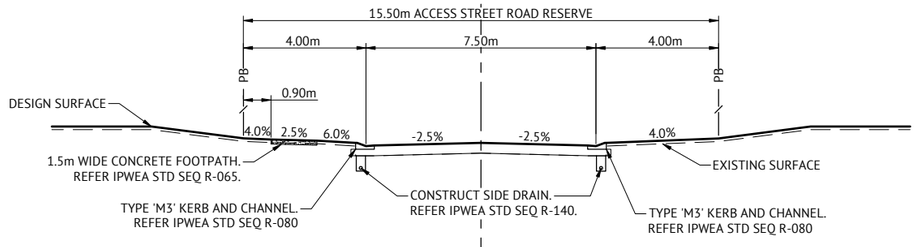

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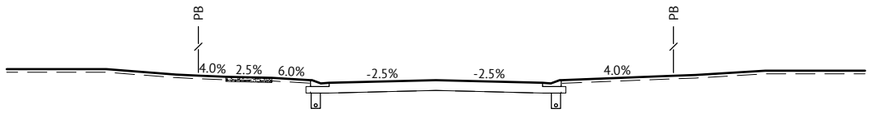

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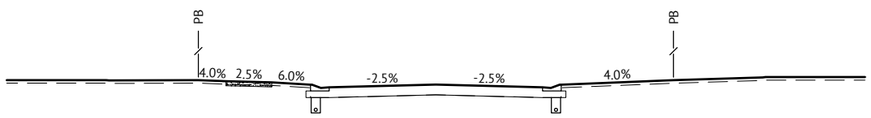

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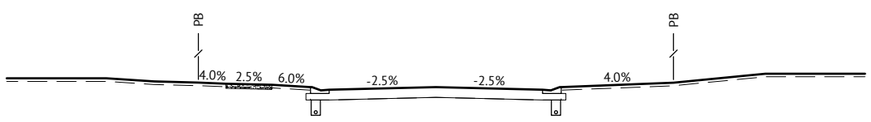

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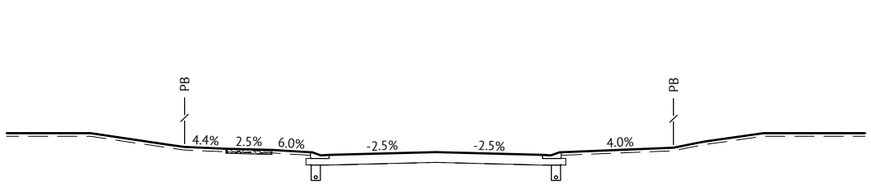

CHAINAGE 220 DATUM R.L. 66.00

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE AMBER CIRCUIT CROSS SECTIONS

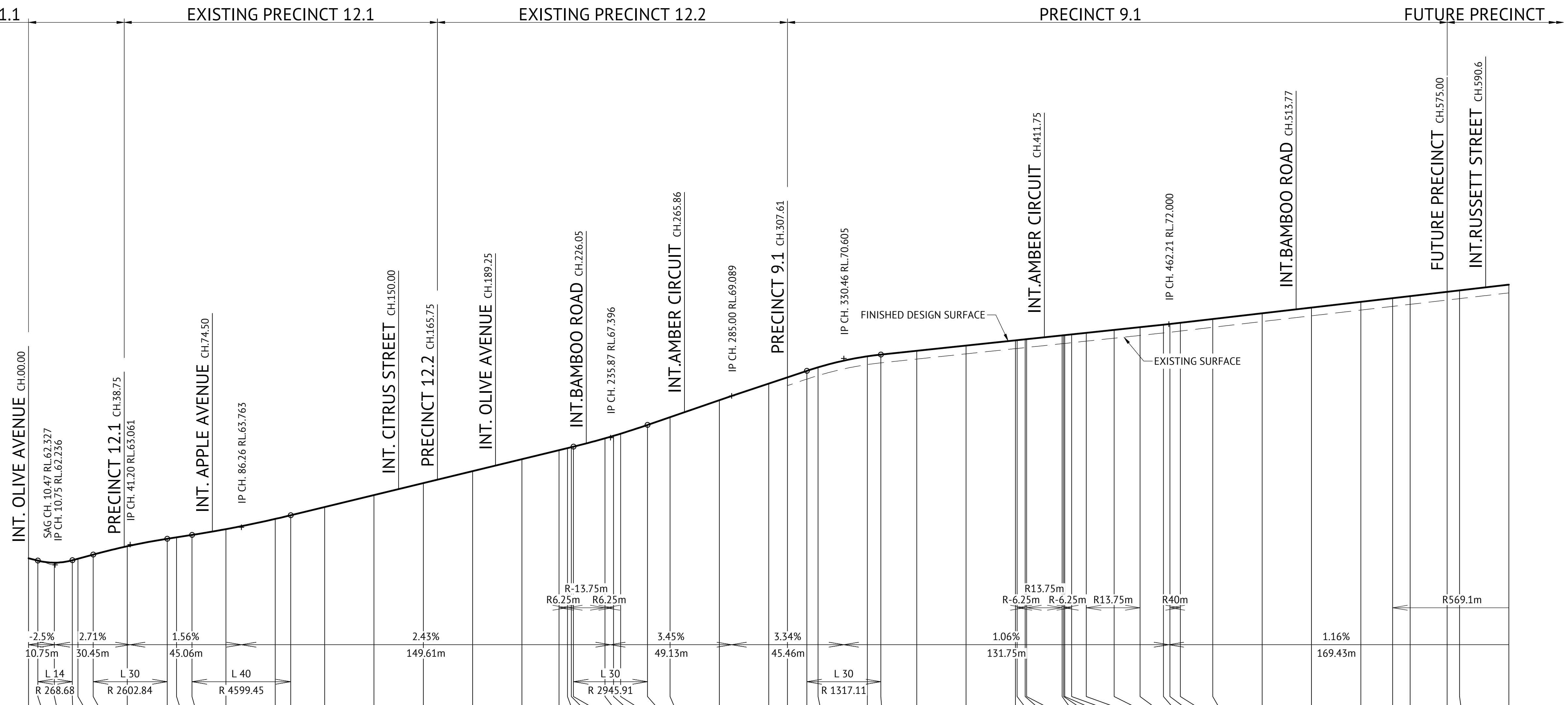
JOB CODE MIR009-01
SHEET NUMBER C311
REV B

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	MOSS STREET
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

* REFER TO INTERSECTION DETAILS PLANS



DATUM R.L.56.0

CHAINAGE	0.00	3.75	10.47	17.75	20.00	26.20	40.00	56.20	60.00	66.26	80.00	100.00	106.26	120.00	140.00
CUT (-)/FILL DEPTH	0.000	-0.029	0.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.016	0.000	0.000	0.000	0.000
LHS LIP LEVEL				62.339	62.400	62.568	62.905	63.208	63.267	63.365	63.599	64.014	64.162	64.496	64.981
RHS LIP LEVEL				62.339	62.400	62.568	62.905	63.208	63.267	63.365	63.599	64.014	64.162	64.496	64.981
DESIGN SURFACE	62.505	62.411	62.327	62.426	62.487	62.655	62.992	63.295	63.354	63.452	63.686	64.101	64.249	64.583	65.068
NATURAL SURFACE	62.505	62.440	62.263	62.426	62.487	62.655	62.992	63.295	63.354	63.452	63.702	64.101	64.249	64.583	65.068

CHAINAGE	160.00	180.00	200.00	215.00	218.45	220.00	220.87	233.66	237.11	240.00	250.87	260.00	280.00	300.00	307.61
CUT (-)/FILL DEPTH	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LHS LIP LEVEL	65.467	65.952	66.438	66.802	66.886	66.923	66.944	67.283	67.384	67.471	67.826	68.140	68.830	69.502	69.756
RHS LIP LEVEL	65.467	65.952	66.438	66.802	66.886	66.923	66.944	67.283	67.384	67.471	67.826	68.140	68.830	69.502	69.756
DESIGN SURFACE	65.554	66.039	66.525	66.889	66.973	67.010	67.031	67.370	67.471	67.558	67.913	68.227	68.917	69.589	69.843
NATURAL SURFACE	65.554	66.039	66.525	66.889	66.973	67.010	67.031	67.370	67.471	67.558	67.913	68.227	68.917	69.589	69.843

CHAINAGE	315.46	320.00	340.00	345.46	360.00	380.00	400.00	400.69	403.96	404.54	418.94	419.52	420.00	422.80	428.73
CUT (-)/FILL DEPTH	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
LHS LIP LEVEL	70.018	70.162	70.608	70.677	70.831	71.043	*								71.559
RHS LIP LEVEL	70.018	70.162	70.608	70.677	70.831	71.043	71.255	71.262	71.296	71.303	71.455	71.461	71.466	71.496	71.559
DESIGN SURFACE	70.105	70.249	70.695	70.764	70.918	71.130	71.342	71.349	71.383	71.390	71.542	71.548	71.553	71.583	71.646
NATURAL SURFACE	69.770	69.914	70.360	70.429	70.583	70.795	71.007	71.014	71.048	71.055	71.207	71.213	71.218	71.248	71.311

CHAINAGE	440.00	450.54	460.00	462.62	466.87	480.00	500.00	520.00	540.00	552.90	560.00	575.00	580.00	600.00
CUT (-)/FILL DEPTH	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
LHS LIP LEVEL	71.694	71.819	71.919	71.947	71.997	72.149	72.382	72.614	72.847	72.997	73.080	73.254	73.312	73.545
RHS LIP LEVEL	71.692	71.814	71.915	71.943	71.992	72.145	*		72.842	72.992	73.075	73.249	73.308	73.540
DESIGN SURFACE	71.765	71.876	71.977	72.005	72.054	72.207	72.439	72.672	72.904	73.054	73.137	73.311	73.370	73.602
NATURAL SURFACE	71.430	71.541	71.642	71.670	71.719	71.872	72.104	72.337	72.569	72.719	72.802	72.976	73.035	73.267

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

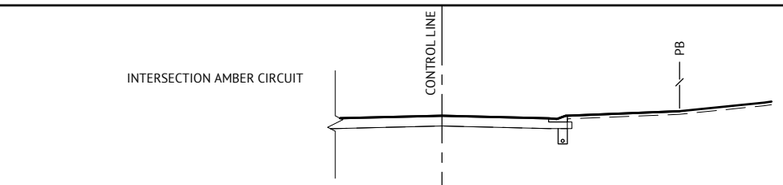
Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

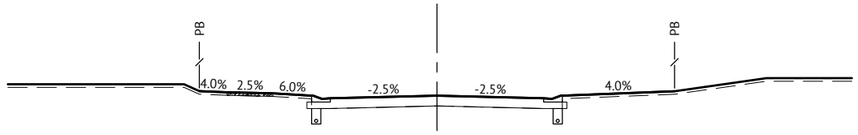
SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC QLD PTY LTD**
PROJECT **EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **MOSS STREET LONGITUDINAL SECTIONS**

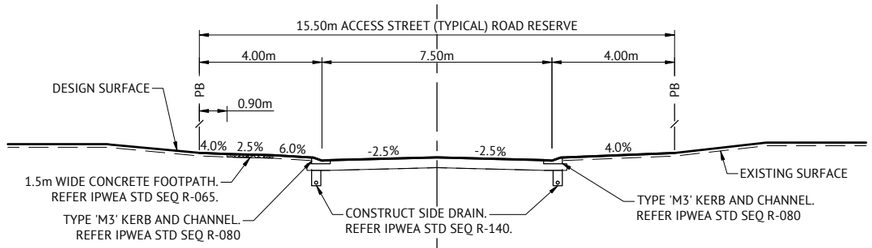
JOB CODE MIR009-01
SHEET NUMBER C312
REV B



CHAINAGE 400 — DATUM R.L. 67.00



CHAINAGE 380 — DATUM R.L. 67.00



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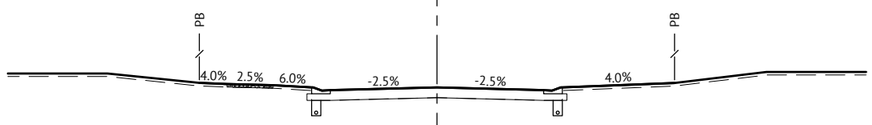
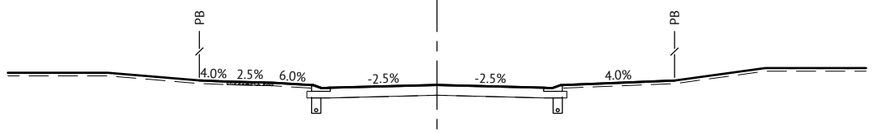
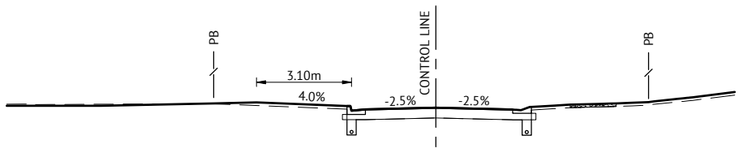


CHAINAGE 340 — DATUM R.L. 67.00



CHAINAGE 320 — DATUM R.L. 66.00



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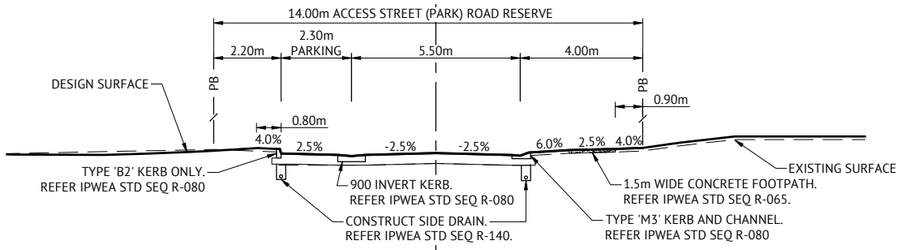

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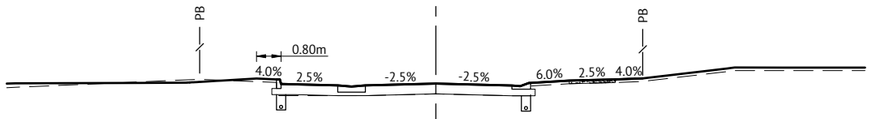

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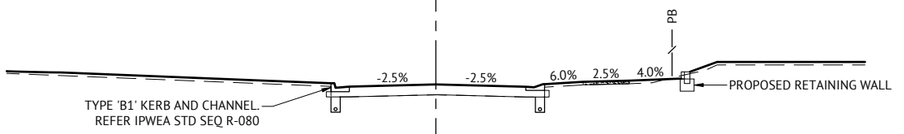

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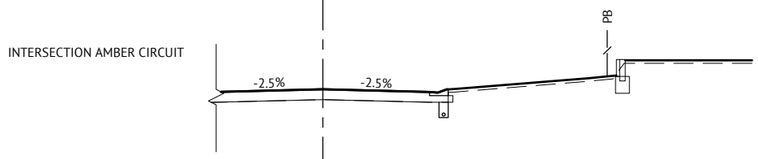


CHAINAGE 420 — DATUM R.L. 68.00

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

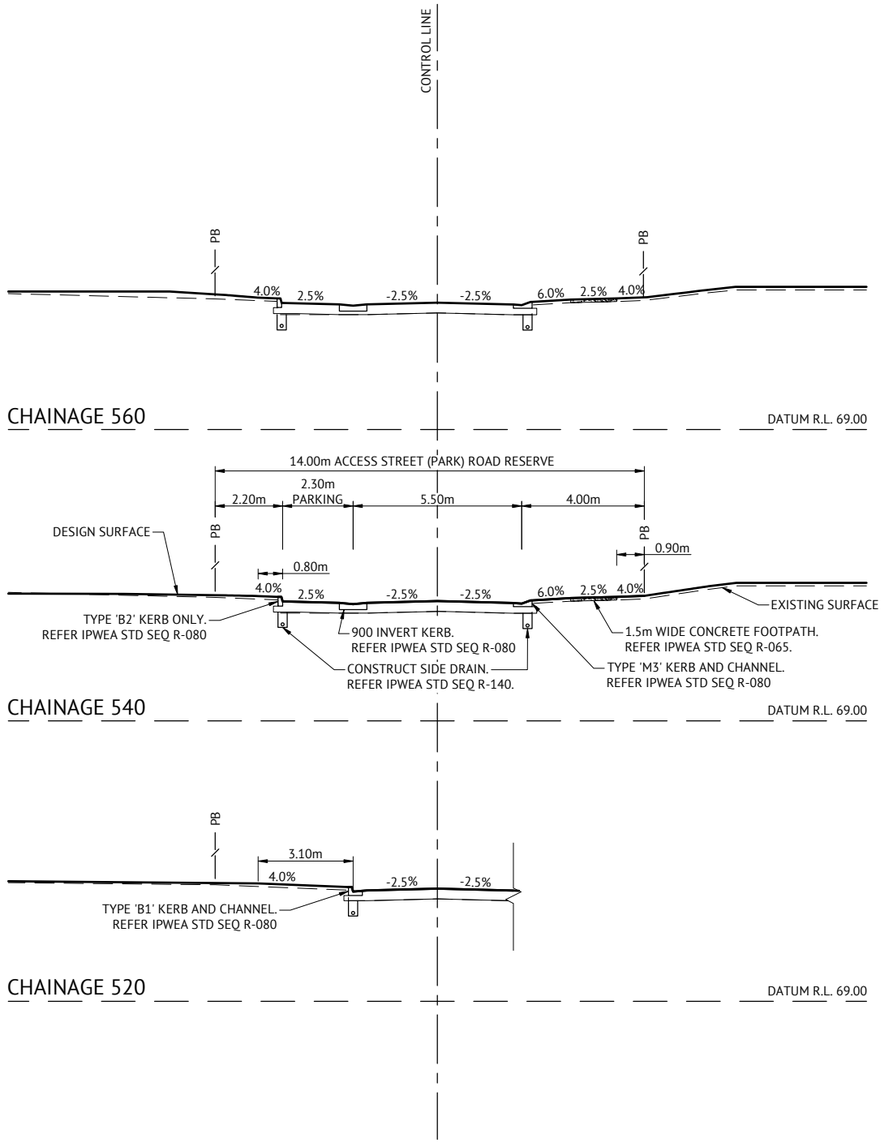
DESIGNED: K KIWANG
CHECKED: A LANGDON
PROJECT MANAGER: S STEINHOFER
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE: 0 2 4 6m — SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: MOSS STREET CROSS SECTIONS - SHEET 1 OF 2

JOB CODE: MIR009-01
SHEET NUMBER: C313
REV: B

*FOR SURFACE STABILISATION TREATMENT OF WORKS OUTSIDE OF PRECINCT 9.1, REFER TO MIR-012-01 DRAWING C730 - EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

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DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

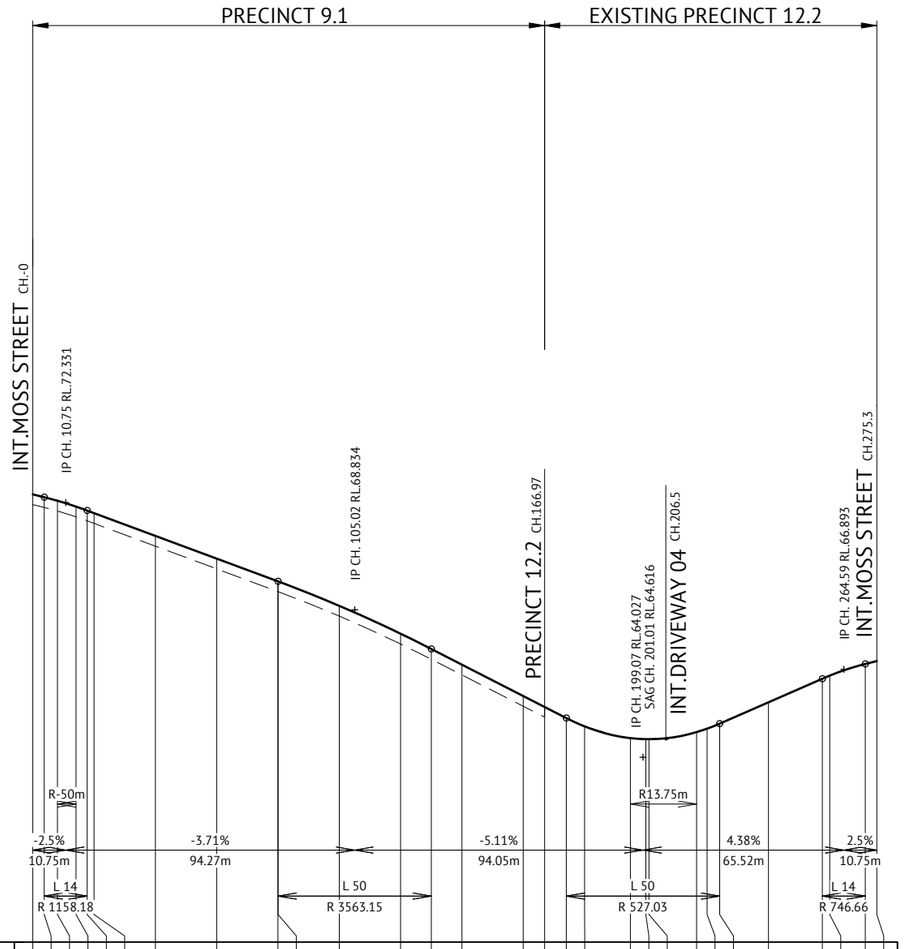
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE MOSS STREET CROSS SECTIONS - SHEET 2 OF 2

JOB CODE MIR009-01
SHEET NUMBER C314
REV B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	BAMBOO ROAD
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
SURFACE	-	35mm AC of 10mm MIX
CBR 80	-	PRIME
CBR 45	-	150mm
CBR 15	-	150mm
TOTAL BOX	-	335mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

✳ REFER TO INTERSECTION DETAILS PLANS



DATUM R.L.58.0

CHAINAGE	CUT (-)/FILL DEPTH	NATURAL SURFACE	DESIGN SURFACE	RHS LIP LEVEL	LHS LIP LEVEL
0.00	0.335	72.265	72.600	✳	✳
3.75	0.335	72.171	72.506		
8.06	0.335	72.055	72.390		
14.11	0.335	71.865	72.200	72.113	71.984
17.75	0.335	71.736	72.071	71.984	71.901
20.00	0.335	71.653	71.988	71.901	71.159
40.00	0.335	70.911	71.246	71.159	70.417
60.00	0.335	70.169	70.504	70.417	69.675
80.00	0.335	69.427	69.762	69.675	69.675
80.02	0.335	69.427	69.762	69.675	68.878
100.00	0.335	68.630	68.965	68.878	67.968
120.00	0.335	67.720	68.055	67.968	67.469
130.02	0.335	67.221	67.556	67.469	66.959
140.00	0.335	66.711	67.046	66.959	65.937
160.00	0.335	65.689	66.024	65.937	65.581
166.97	0.000	65.668	65.668	65.581	65.218
174.07	0.000	65.305	65.305	65.218	64.948
180.00	-0.000	65.035	65.035	64.948	64.564
194.97	-0.000	64.651	64.651	64.564	64.530
200.00	-0.000	64.617	64.617	64.530	64.529
201.01	-0.000	64.616	64.616	64.529	64.759
216.57	-0.000	64.846	64.846	64.759	64.871
220.00	-0.000	64.958	64.958	64.871	65.034
224.07	-0.000	65.121	65.121	65.034	65.731
240.00	-0.000	65.818	65.818	65.731	66.500
257.59	-0.000	66.587	66.587	66.500	66.602
260.00	-0.000	66.689	66.689	66.602	
271.59	-0.000	67.068	67.068		
275.34	-0.000	67.162	67.162		

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

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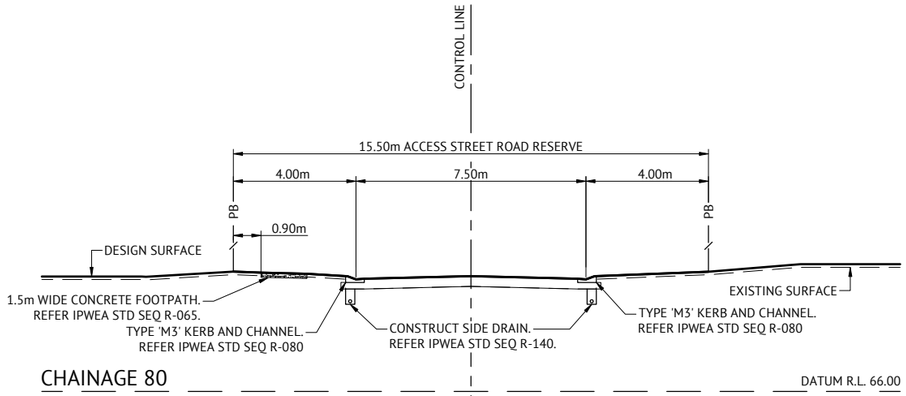
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

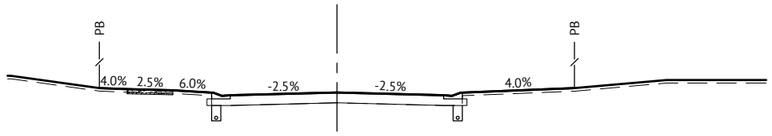
SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BAMBOO ROAD LONGITUDINAL SECTION

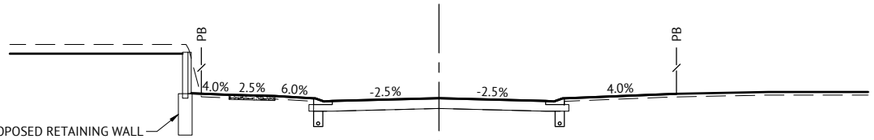
JOB CODE MIR009-01
SHEET NUMBER C315
REV B



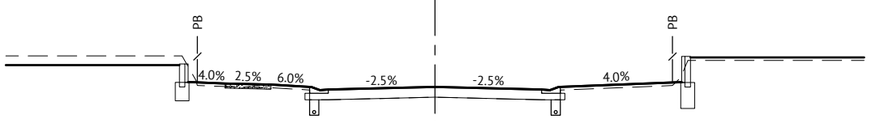
CHAINAGE 80 — DATUM R.L. 66.00



CHAINAGE 60 — DATUM R.L. 67.00



CHAINAGE 40 — DATUM R.L. 67.00



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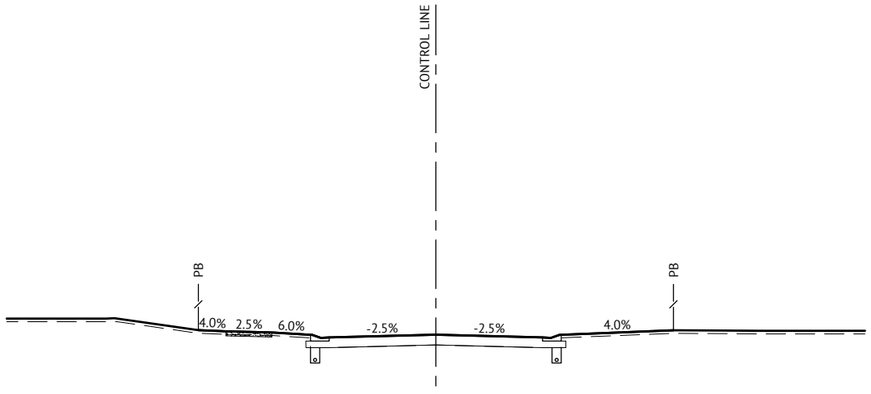
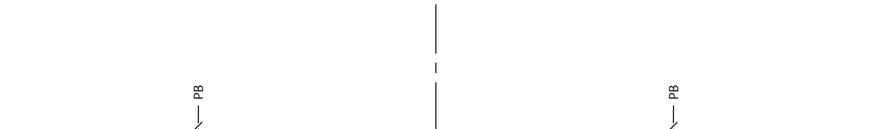
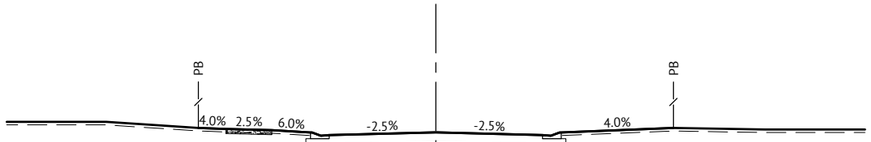


CHAINAGE 160 — DATUM R.L. 62.00



CHAINAGE 140 — DATUM R.L. 63.00



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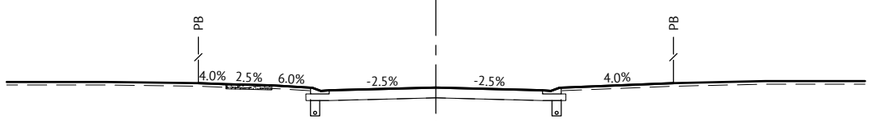

CHAINAGE 100 — DATUM R.L. 65.00

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

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WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

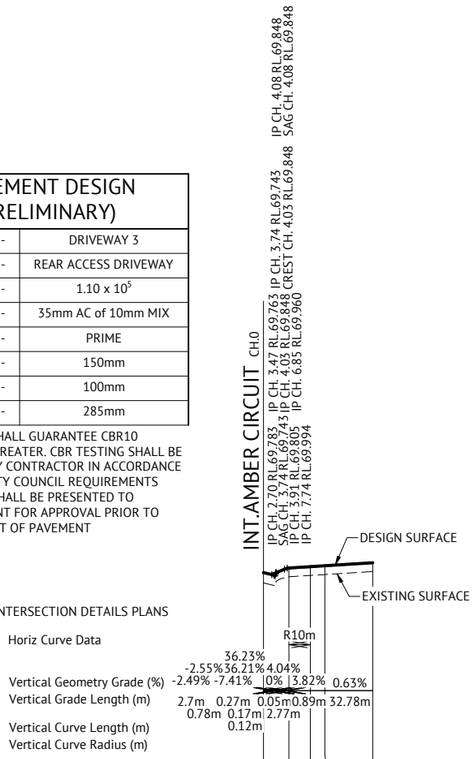
CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: BAMBOO ROAD CROSS SECTIONS

JOB CODE: MIR009-01
SHEET NUMBER: C316
REV: B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	DRIVEWAY 3
CLASS	-	REAR ACCESS DRIVEWAY
ESA's	-	1.10×10^5
SURFACE	-	35mm AC of 10mm MIX
CBR 80	-	PRIME
CBR 45	-	150mm
CBR 15	-	100mm
TOTAL BOX	-	285mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

✳ REFER TO INTERSECTION DETAILS PLANS

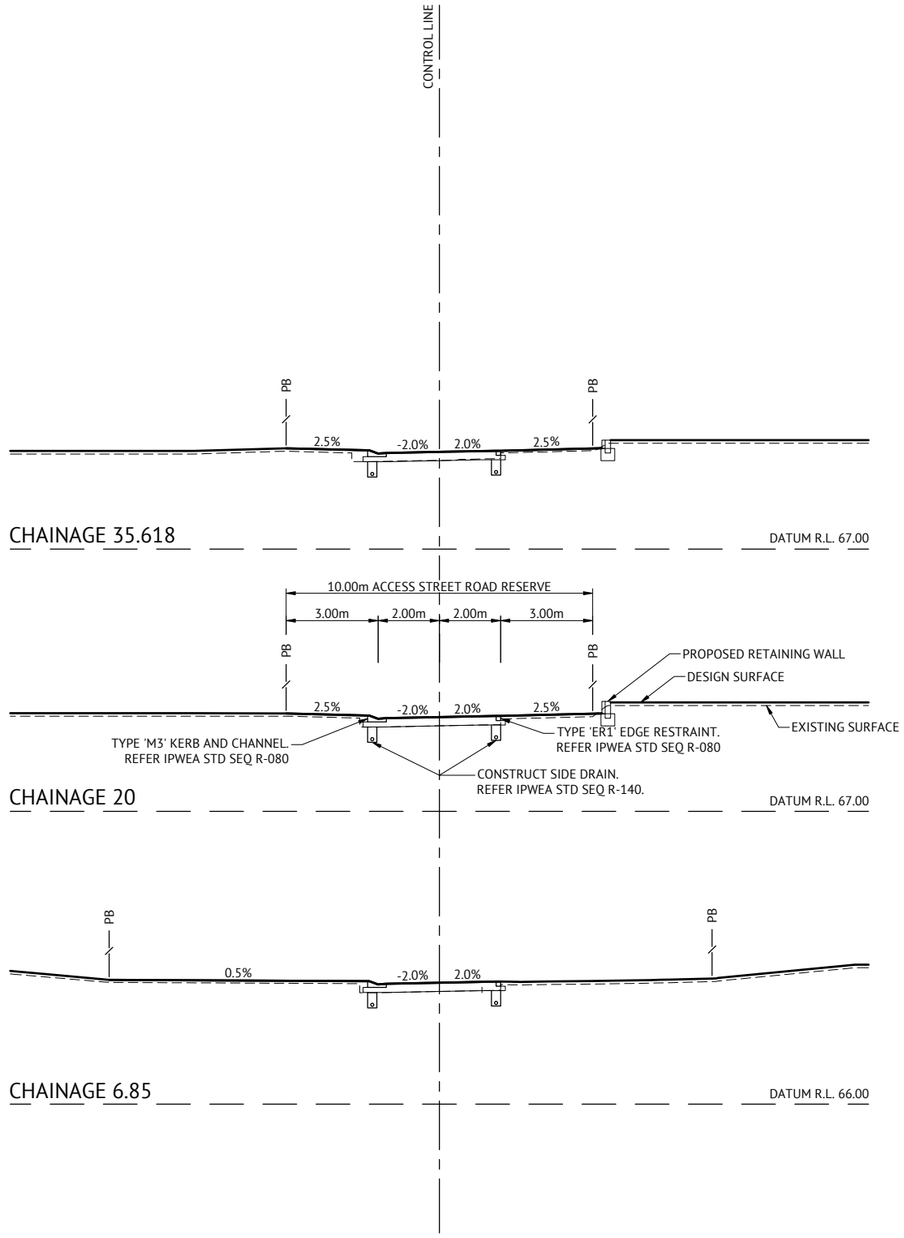


DATUM R.L.63.0

CUT (-)/FILL DEPTH	0.335	0.285	0.285	0.285		0.278
LHS LIP LEVEL	✳	69.943	69.987	70.017		70.115
RHS LIP LEVEL	✳	70.035	70.079	70.108		70.206
DESIGN SURFACE	69.850	69.998	70.042	70.071		70.169
NATURAL SURFACE	69.515	69.713	69.757	69.786		69.891
CHAINAGE	0.00	8.28	15.26	20.00		35.62

DRIVEWAY 3 LONGITUDINAL SECTION

SCALE 1:1000H 1:100V



DRIVEWAY 3 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

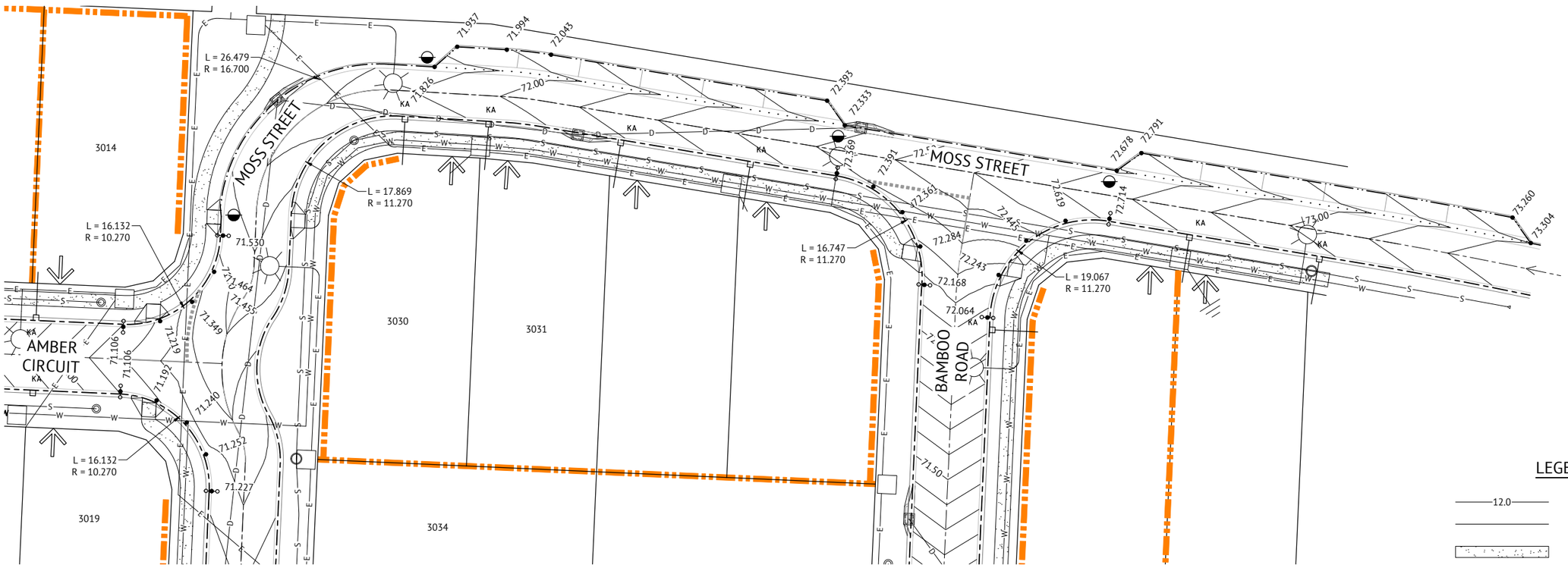
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
0 2 4 6m
VERTICAL 1:100 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

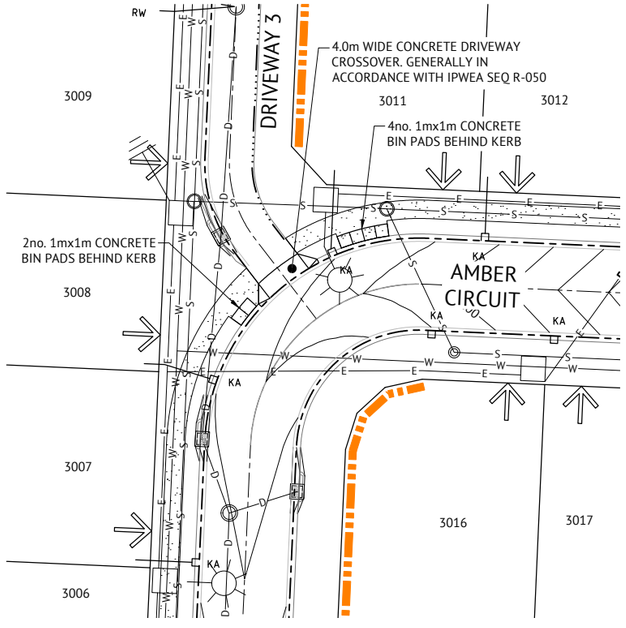
CLIENT MIRVAC GROUP
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRIVEWAY 3 LONG & CROSS SECTIONS

JOB CODE MIR009-01
SHEET NUMBER C317
REV B



INTERSECTION AMBER CIRCUIT & MOSS STREET

INTERSECTION MOSS STREET AND BAMBOO ROAD



INTERSECTION DRIVEWAY 3 & AMBER CIRCUIT

LEGEND

- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
- 12.497 — LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- D — PROPOSED STORMWATER
- S — PROPOSED SEWER
- W — PROPOSED WATER

EXISTING - LEGEND

- D — EXISTING STORMWATER
- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICAL
- T — EXISTING TELSTRA
- G — EXISTING GAS
- RM — EXISTING SEWER RISING MAIN

NOTE

LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.

FOR CONSTRUCTION

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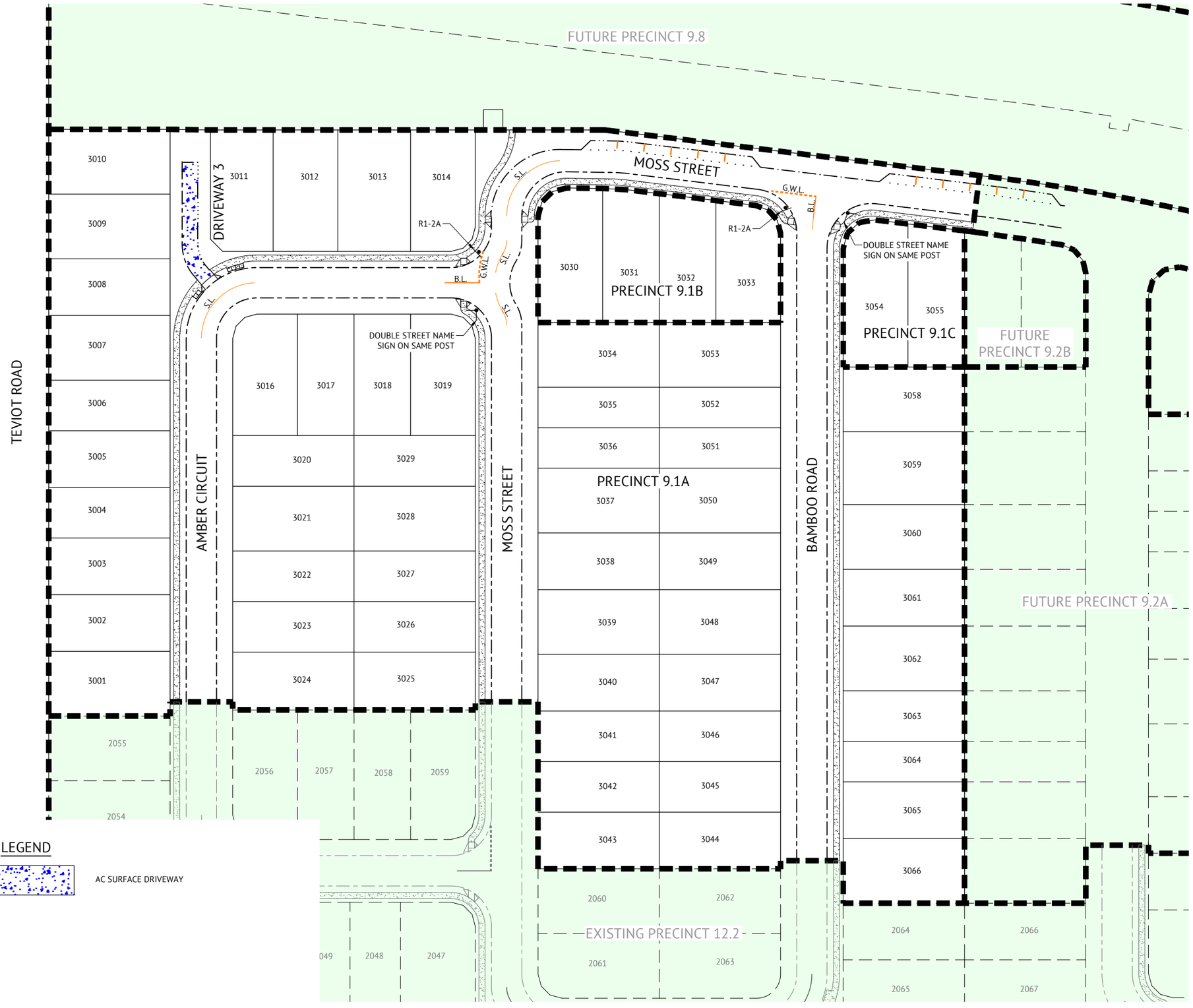
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE INTERSECTION DETAILS LAYOUT

JOB CODE MIR009-01
SHEET NUMBER C330
REV B

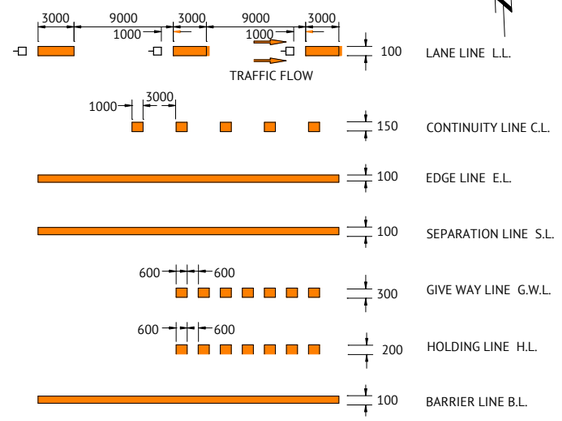


LEGEND

AC SURFACE DRIVEWAY

TYPICAL LINEMARKING LEGEND

N.T.S.



LINEMARKING NOTES

1. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS) AND THE SPECIFIC REQUIREMENTS OF REFERENCE SPECIFICATION S150 ROADWORKS. BRISBANE CITY COUNCILS SPECIFIC REQUIREMENTS ARE DETAILED ON STANDARD DRAWINGS BSD-3151 TO BDS-3163.
2. ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
3. EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
4. ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
5. ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
6. EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
7. RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM's) SHALL BE PLACED 25mm TO 50mm FROM THE PAINTED LINEMARKING AND ORIENTATED SO THAT FULL REFLECTIVE EFFECT IS ACHIEVED BY AIMING THE REFLECTIVE FACE IN THE DIRECTION OF APPROACHING TRAFFIC.
8. GENERALLY THE NORMAL SPACING BETWEEN RRPM's IS TO BE 12.0m U.N.O.
9. ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
10. NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
11. ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

SIGNAGE NOTES

1. LOCATION OF SIGNS SHOWN INDICATED ON THIS PLAN ARE INDICATIVE ONLY. CARE AND CONSIDERATION IS TO BE GIVEN TO ON SITE CONDITIONS
   TO AVOID ANY VISUAL OBSTRUCTION OF THE SIGN ALONG THE INTENDED COURSE OF APPROACHING TRAFFIC. EXACT LOCATION OF ALL SIGNS SHALL BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
2. SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
3. SIGNAGE SHALL BE IN ACCORDANCE WITH:
   - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
   - AS1743 ROAD SIGNS SPECIFICATION
   - AS4049.1 PAVEMENT MARKING MATERIALS
4. STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

REQUIRED SIGNS

R1-2A

R2-3A(L)

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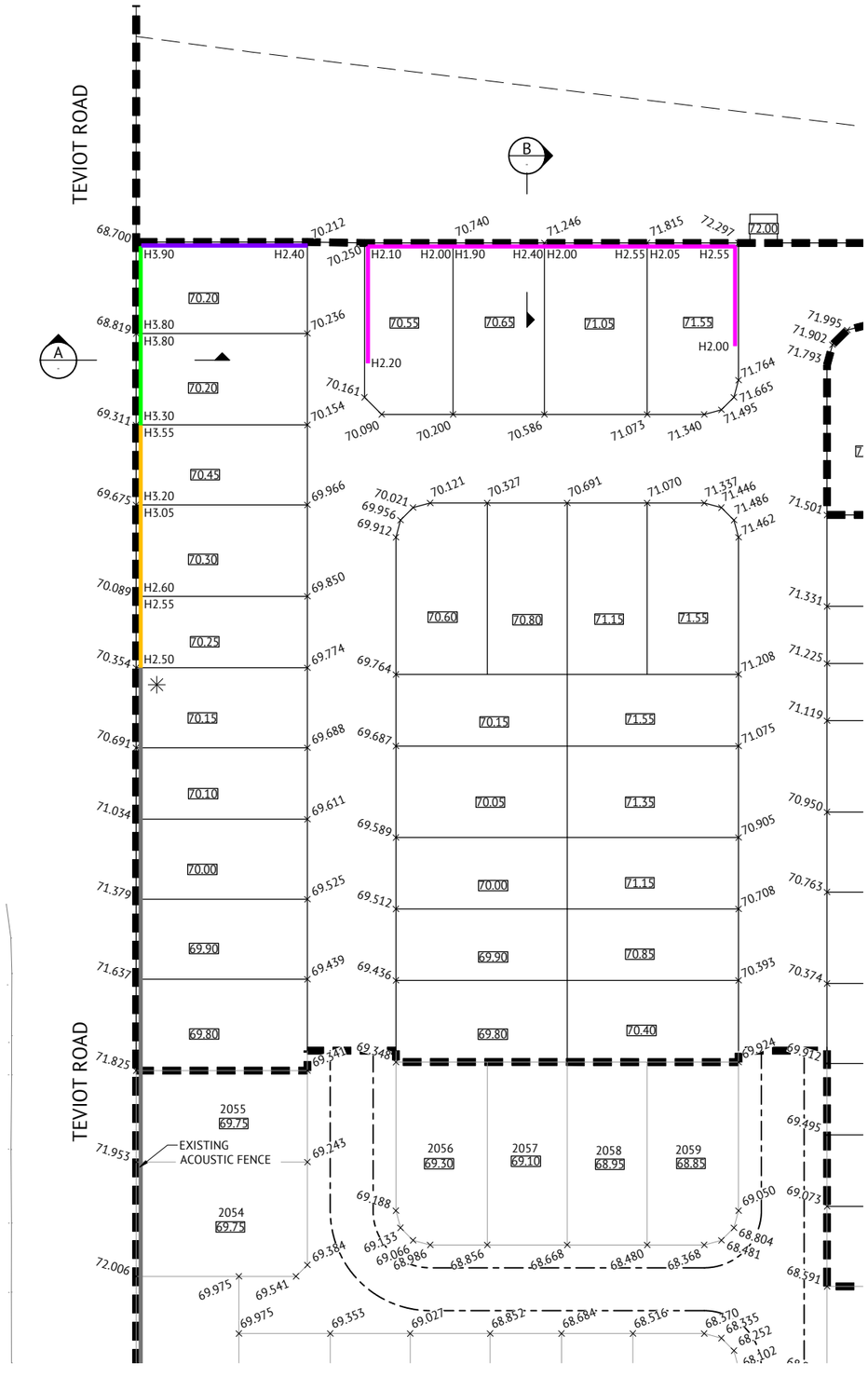
DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

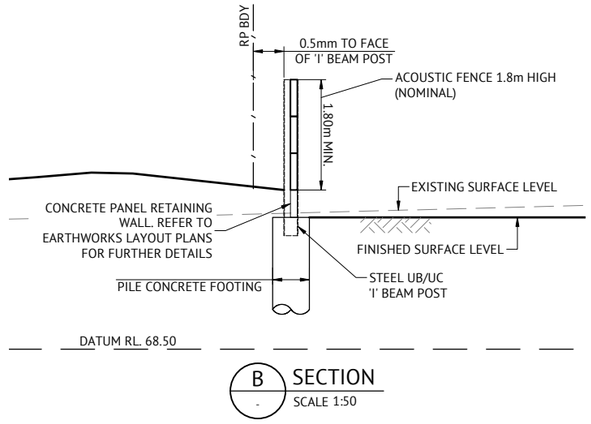
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE LAYOUT

JOB CODE MIR009-01
SHEET NUMBER C340
REV B



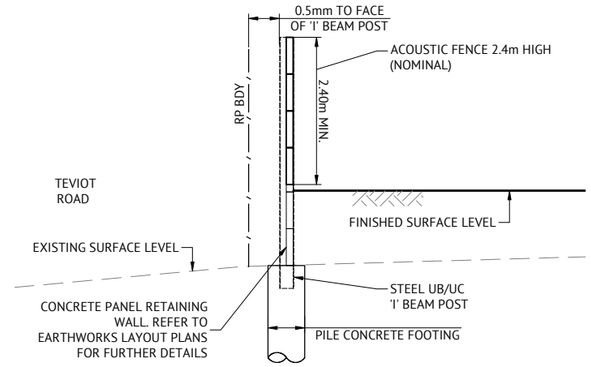
LAYOUT PLAN

SCALE: 1:500



B SECTION

SCALE 1:50



A SECTION

SCALE 1:50

LEGEND - PROPOSED

- 1.8m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.
- 2.4m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.
- 2.5m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.
- 2.6m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.

H1.80 — TOTAL HEIGHT FROM TOP OF FENCE TO LOWEST POINT ON EITHER SIDE OF ACOUSTIC FENCE

LEGEND - EXISTING

- 1.8m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.

NOTE:

✳ ACOUSTIC FENCE WALL HEIGHTS TO BE COORDINATED WITH EXISTING ACOUSTIC FENCE HEIGHTS. REFER RETAINING WALL SHOP DRAWINGS FOR FURTHER DETAIL. EXISTING WALLS ARE TO BE INCLUDED IN THE RETAINING WALL SHOP DRAWINGS AND TO BE REVIEWED BY THE SUPERINTENDENT AS PART OF THE REVIEW PROCESS.

NOTE:

THESE ACOUSTIC FENCE PLANS SHOULD BE READ IN CONJUNCTION WITH THE C200 SERIES EARTHWORKS DRAWINGS.

THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE ATP CONSULTING ENGINEERS NOISE IMPACT ASSESSMENT, DOCUMENT NO. ATP170617-R-TNIA-04_RoL 5 DATED AUGUST 2021.

THE PROPOSED ACOUSTIC FENCE SHALL BE CONSTRUCTED AS FOLLOWS:

- THE ACOUSTIC FENCE SHOULD BE CONSTRUCTED TO COMPLY WITH TMR's ROAD TRAFFIC NOISE MANAGEMENT: CODE OF PRACTICE.
- MATERIAL WITH MINIMUM SURFACE DENSITY OF 15kg/m2, E.G. TIMBER PALINGS WITH MINIMUM THICKNESS 20mm; FIBRE-CEMENT SHEETING WITH MINIMUM THICKNESS OF 12mm; MASONRY; AND AERATED CONCRETE.
- THE NOISE BARRIER SHOULD BE FREE OF ANY GAPS. IF THE NOISE BARRIER IS CONSTRUCTED OF TIMBER PALINGS, PLANKS SHOULD HAVE MINIMUM 35mm OVERLAP.
- NO GAPS SHALL BE LEFT BETWEEN THE FENCE AND THE GROUND.
- THE NOISE BARRIER SHOULD BE OF DURABLE CONSTRUCTION.
- ACOUSTIC FENCE SHOULD BE PAINTED TO MATCH RETAINING WALLS.
- THE ACOUSTIC FENCE IS AS PER SLIM WALL SPECIFICATIONS FROM MODULAR WALLS.

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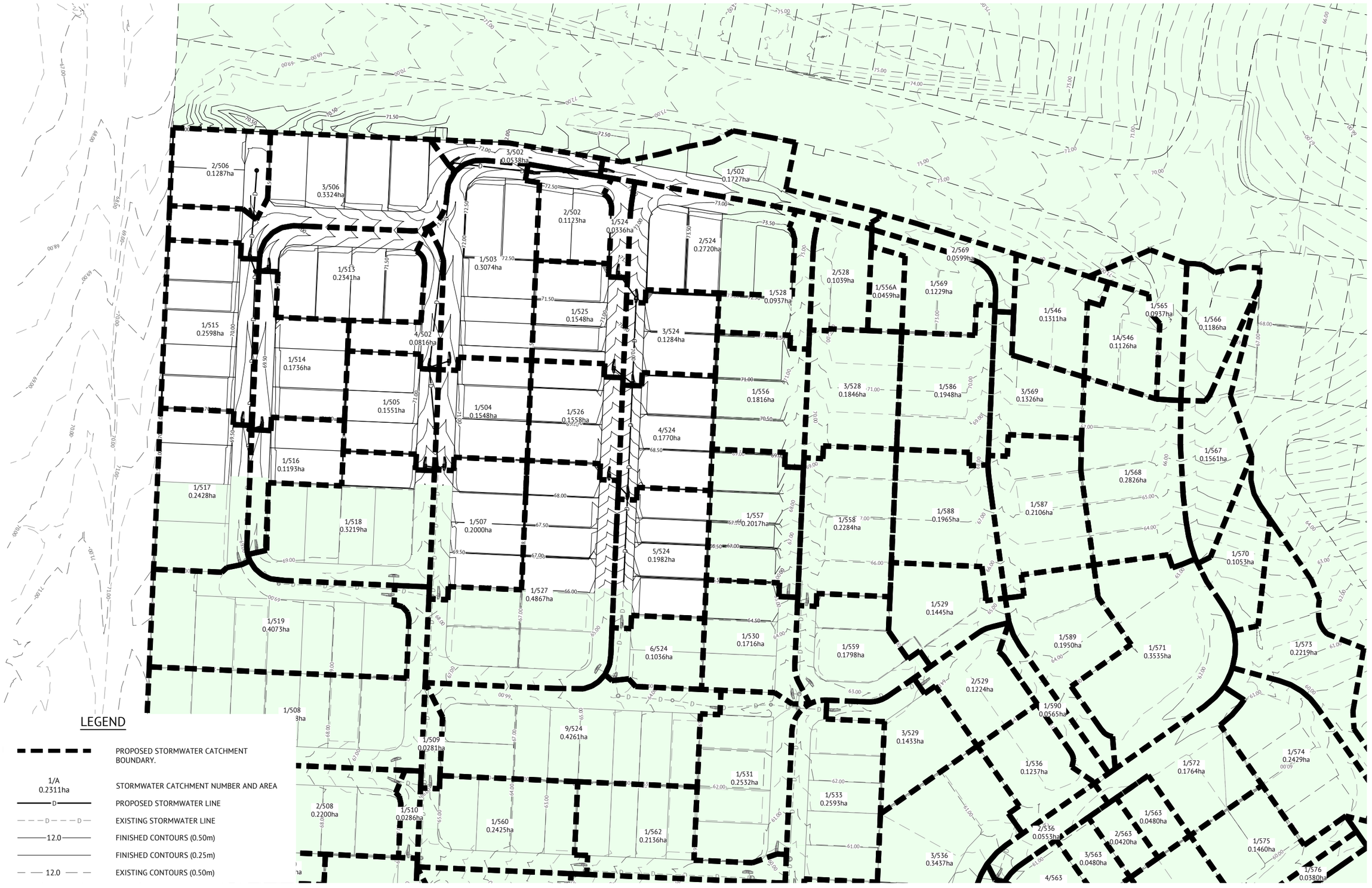
DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 10 20 30m
SCALE 1:500 (A1)
0 1 2 3m
SCALE 1:50 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ACOUSTIC FENCE LAYOUT PLAN

JOB CODE MIR009-01
SHEET NUMBER C350
REV B



FOR CONSTRUCTION

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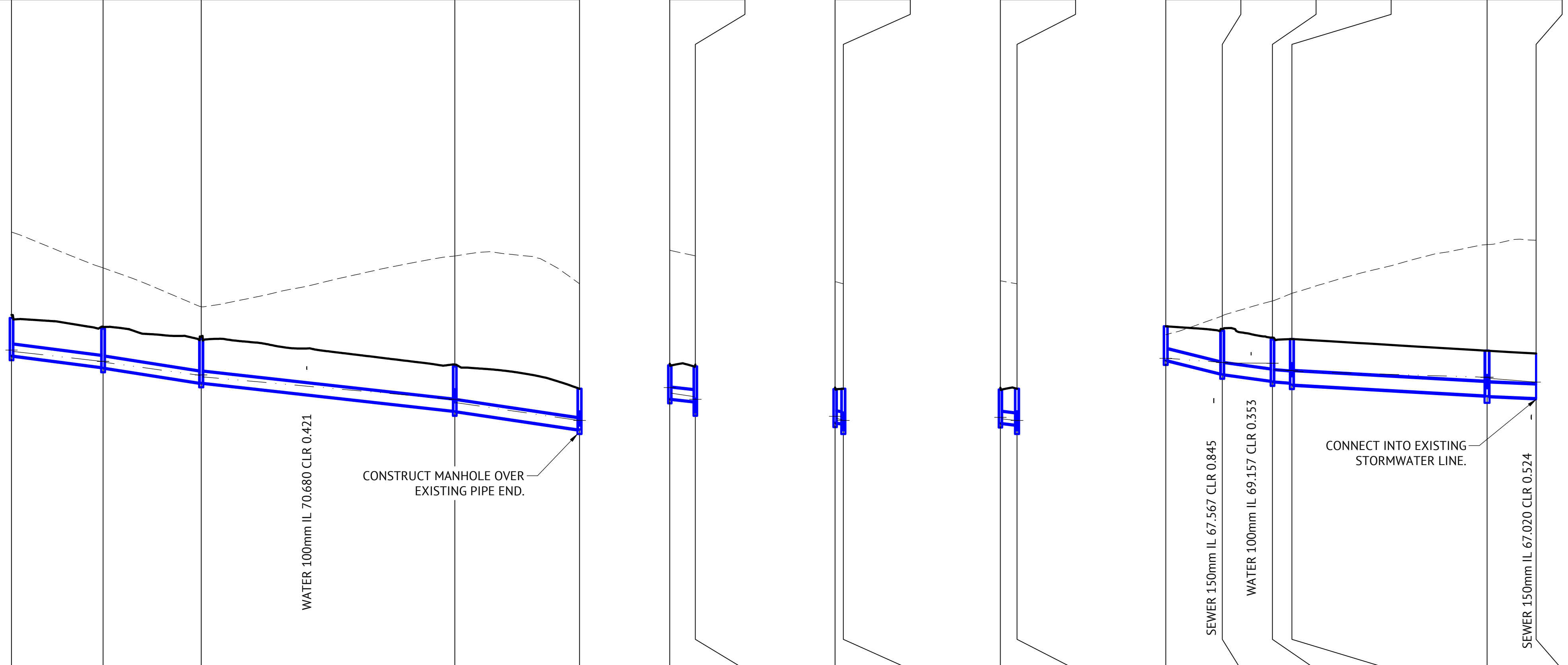
DESIGNED: K KIWANG
CHECKED: A LANGDON
PROJECT MANAGER: S STEINHOFER
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE
0 15 30 45m
SCALE 1:750(A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER CATCHMENT LAYOUT

JOB CODE: MIR009-01
SHEET NUMBER: C400
REV: B



LINE 502

STRUCTURE NAME	1/502	2/502	3/502	4/502	5/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
WSE IN STRUCTURE	71.326	70.951	70.498	69.689	
HGL IN PIPE	71.281	70.951 / 70.919	70.486 / 70.435	69.689 / 69.576	68.986 / 68.986
DEPTH OF INVERT BELOW FSL	1.255	1.286 / 1.306	1.455 / 1.455	1.480 / 1.499	1.354 / 1.354
INVERT LEVEL	71.139	70.756 / 70.736	70.235 / 70.235	69.305 / 69.286	68.684 / 68.684
FINISHED (& EXISTING) SURFACE LEVEL	72.394 (75.254)	72.042 (74.060)	71.689 (72.771)	70.786 (74.459)	70.038 (73.534)
CHAINAGE	0.000	30.473	63.098	147.481	188.988

PIPE	1/502–2/502	2/502–3/502	3/502–4/502	4/502–5/502
PIPE SIZE (mm)	375	375	375	375
PIPE CLASS	2	2	2	2
PIPE GRADE (%)	1.26%	1.53%	1.10%	1.45%
PIPE SLOPE (1 in X)	79.5	65.2	90.8	68.9
FULL PIPE VELOCITY (m/s)	0.35	0.58	0.68	1.39
PART FULL VELOCITY (m/s)	1.39	1.71	1.58	2.09
PIPE FLOW (cumecs)	0.039	0.064	0.075	0.154
PIPE CAPACITY AT GRADE (cumecs)	0.197	0.217	0.184	0.211
LENGTH	30.473	32.625	84.383	41.507

DATUM RL 55.0

LINE 503

STRUCTURE NAME	1/503	4/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel
WSE IN STRUCTURE	70.077	69.689
HGL IN PIPE	69.891	69.778 / 69.576
DEPTH OF INVERT BELOW FSL	1.115	1.169 / 1.499
INVERT LEVEL	69.702	69.617 / 69.286
FINISHED (& EXISTING) SURFACE LEVEL	70.817 (74.649)	70.786 (74.459)
CHAINAGE	0.000	8.515

Pipe: PIPE SIZE 375; PIPE CLASS 2; PIPE GRADE 1.00%; PIPE SLOPE 100.0; FULL PIPE VELOCITY 0.61; PART FULL VELOCITY 1.48; PIPE FLOW 0.068; PIPE CAPACITY AT GRADE 0.175; length 8.515. DATUM RL 55.0

LINE 504

STRUCTURE NAME	1/504	5/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
WSE IN STRUCTURE	69.122	
HGL IN PIPE	69.055	69.005 / 69.005
DEPTH OF INVERT BELOW FSL	1.116	1.156 / 1.156
INVERT LEVEL	68.910	68.882 / 68.882
FINISHED (& EXISTING) SURFACE LEVEL	70.025 (73.594)	70.038 (73.534)
CHAINAGE	0.000	2.746

Pipe: PIPE SIZE 375; PIPE CLASS 2; PIPE GRADE 1.00%; PIPE SLOPE 99.8; FULL PIPE VELOCITY 0.37; PART FULL VELOCITY 1.29; PIPE FLOW 0.041; PIPE CAPACITY AT GRADE 0.176; length 2.746. DATUM RL 55.0

LINE 505

STRUCTURE NAME	1/505	5/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
WSE IN STRUCTURE	69.089	
HGL IN PIPE	69.035	68.986 / 68.986
DEPTH OF INVERT BELOW FSL	1.115	1.195 / 1.195
INVERT LEVEL	68.898	68.843 / 68.843
FINISHED (& EXISTING) SURFACE LEVEL	70.013 (73.627)	70.038 (73.534)
CHAINAGE	0.000	5.520

Pipe: PIPE SIZE 375; PIPE CLASS 2; PIPE GRADE 1.00%; PIPE SLOPE 100.0; FULL PIPE VELOCITY 0.33; PART FULL VELOCITY 1.25; PIPE FLOW 0.036; PIPE CAPACITY AT GRADE 0.175; length 5.520. DATUM RL 55.0

LINE 506

STRUCTURE NAME	1/506	2/506	3/506	4/506	5/506	TE/506
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	EXISTING PIPE END
WSE IN STRUCTURE	69.053	68.916	68.889	68.649	68.423	
HGL IN PIPE	69.053	68.916 / 68.894	68.889 / 68.671	68.649 / 68.618	68.423 / 68.388	68.259 / 68.259
DEPTH OF INVERT BELOW FSL	1.136	1.433 / 1.453	1.379 / 1.399	1.456 / 1.520	1.487 / 1.507	1.484 / 1.484
INVERT LEVEL	68.983	68.540 / 68.520	68.302 / 68.282	68.239 / 68.175	67.816 / 67.796	67.729 / 67.729
FINISHED (& EXISTING) SURFACE LEVEL	70.119 (69.839)	69.973 (70.468)	69.681 (70.961)	69.695 (71.215)	69.304 (72.835)	69.212 (72.979)
CHAINAGE	0.000	18.804	35.513	41.975	106.912	123.223

PIPE	1/506–2/506	2/506–3/506	3/506–4/506	4/506–5/506	5/506–TE/506
PIPE SIZE (mm)	375	375	375	450	450
PIPE CLASS	2	2	2	2	2
PIPE GRADE (%)	2.36%	1.30%	0.67%	0.55%	0.42%
PIPE SLOPE (1 in X)	42.4	76.9	149.5	181.0	239.9
FULL PIPE VELOCITY (m/s)	0.09	0.27	0.93	0.99	1.60
PART FULL VELOCITY (m/s)	1.16	1.31	1.41	1.46	1.60
PIPE FLOW (cumecs)	0.010	0.030	0.102	0.157	0.254
PIPE CAPACITY AT GRADE (cumecs)	0.269	0.200	0.143	0.212	0.184
LENGTH	18.804	16.709	6.462	64.936	16.312

DATUM RL 53.0

LINE 513

STRUCTURE NAME	1/513	4/506
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
WSE IN STRUCTURE	68.835	68.649
HGL IN PIPE	68.713	68.649 / 68.618
DEPTH OF INVERT BELOW FSL	1.115	1.211 / 1.520
INVERT LEVEL	68.543	68.484 / 68.175
FINISHED (& EXISTING) SURFACE LEVEL	69.658 (71.347)	69.695 (71.215)
CHAINAGE	0.000	5.839

Pipe: PIPE SIZE 375; PIPE CLASS 2; PIPE GRADE 1.00%; PIPE SLOPE 100.0; FULL PIPE VELOCITY 0.50; PART FULL VELOCITY 1.40; PIPE FLOW 0.055; PIPE CAPACITY AT GRADE 0.175; length 5.839. DATUM RL 53.0

LINE 514

STRUCTURE NAME	1/514	5/506
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA
WSE IN STRUCTURE	68.490	68.423
HGL IN PIPE	68.423	68.423 / 68.388
DEPTH OF INVERT BELOW FSL	1.115	1.216 / 1.507
INVERT LEVEL	68.144	68.088 / 67.796
FINISHED (& EXISTING) SURFACE LEVEL	69.259 (73.012)	69.304 (72.835)
CHAINAGE	0.000	5.536

Pipe: PIPE SIZE 375; PIPE CLASS 2; PIPE GRADE 1.00%; PIPE SLOPE 99.9; FULL PIPE VELOCITY 0.37; PART FULL VELOCITY 1.29; PIPE FLOW 0.041; PIPE CAPACITY AT GRADE 0.175; length 5.536. DATUM RL 54.0

FOR CONSTRUCTION

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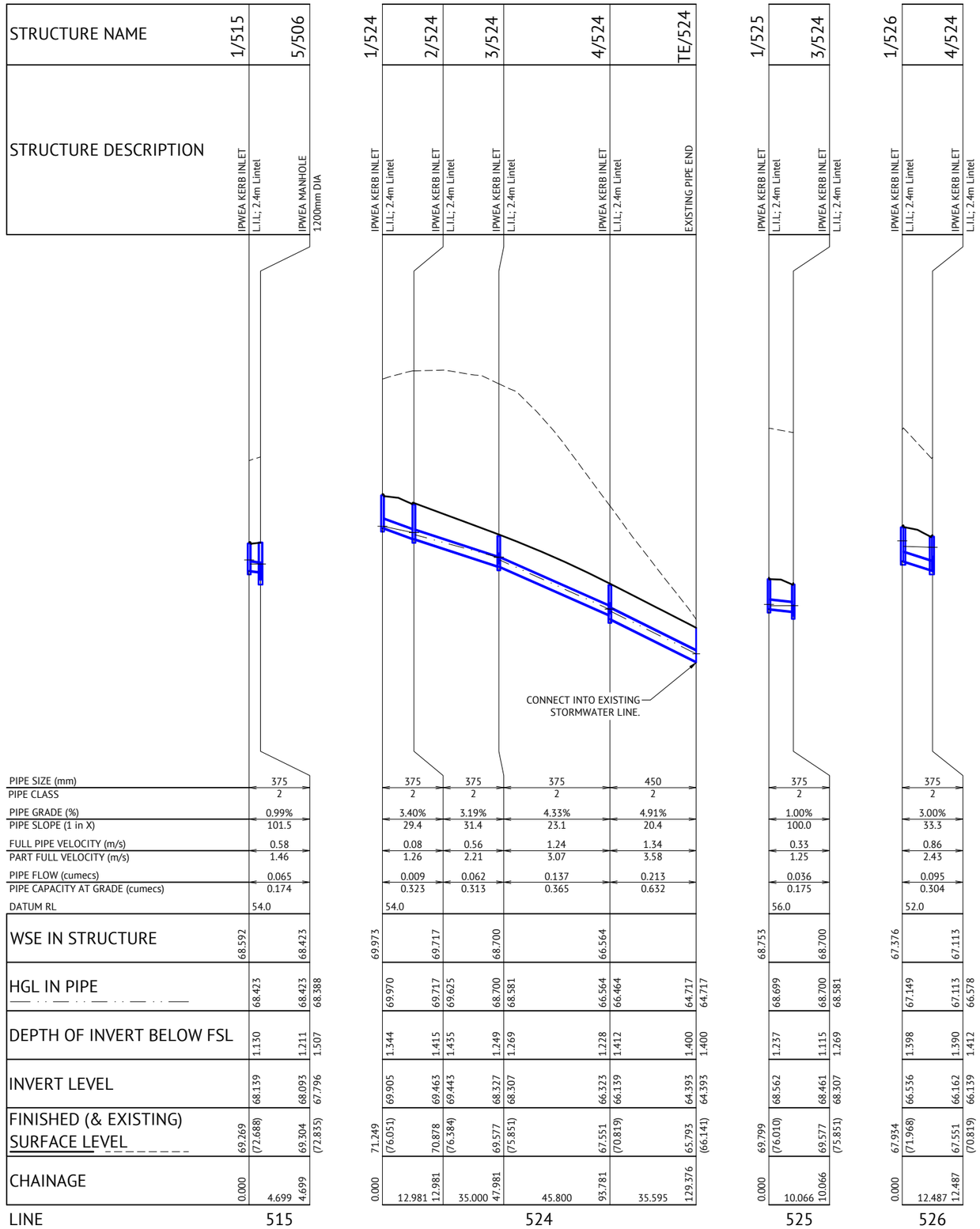
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 2

JOB CODE MIR009-01
SHEET NUMBER C410
REV B



STRUCTURE NAME	1/515	5/506	1/524	2/524	3/524	4/524	TE/524	1/525	3/524	1/526	4/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	EXISTING PIPE END	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel
PIPE SIZE (mm)	375		375	375	375	450		375		375	
PIPE CLASS	2		2	2	2	2		2		2	
PIPE GRADE (%)	0.99%		3.40%	3.19%	4.33%	4.91%		1.00%		3.00%	
PIPE SLOPE (1 in X)	101.5		29.4	31.4	23.1	20.4		100.0		33.3	
FULL PIPE VELOCITY (m/s)	0.58		0.08	0.56	1.24	1.34		0.33		0.86	
PART FULL VELOCITY (m/s)	1.46		1.26	2.21	3.07	3.58		1.25		2.43	
PIPE FLOW (cumecs)	0.065		0.009	0.062	0.137	0.213		0.036		0.095	
PIPE CAPACITY AT GRADE (cumecs)	0.174		0.323	0.313	0.365	0.632		0.175		0.304	
DATUM RL	54.0		54.0					56.0		52.0	
WSE IN STRUCTURE	68.592	68.423	69.973	69.717	68.700	66.564		68.753	68.700	67.376	67.113
HGL IN PIPE	68.423	68.423 68.388	69.970	69.717 69.625	68.700 68.581	66.564 66.464	64.717 64.717	68.699	68.700 68.581	67.149	67.113 66.578
DEPTH OF INVERT BELOW FSL	1.130	1.211 1.507	1.344	1.415 1.435	1.249 1.269	1.228 1.412	1.400 1.400	1.237	1.115 1.269	1.398	1.390 1.412
INVERT LEVEL	68.139	68.093 67.796	69.905	69.463 69.443	68.327 68.307	66.323 66.139	64.393 64.393	68.562	68.461 68.307	66.536	66.162 66.139
FINISHED (& EXISTING) SURFACE LEVEL	69.269 (72.688)	69.304 (72.835)	71.249 (76.051)	70.878 (76.384)	69.577 (75.851)	67.551 (70.819)	65.793 (66.141)	69.799 (76.010)	69.577 (75.851)	67.934 (71.968)	67.551 (70.819)
CHAINAGE	0.000	4.699 4.699	0.000	12.981 12.981	35.000 47.981	45.800 93.781	35.595 129.376	0.000	10.066 10.066	0.000	12.487 12.487
LINE	515		524					525		526	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 2

JOB CODE MIR009-01
SHEET NUMBER C411
REV B

STORMWATER DRAINAGE NOTES

1. ALL STORMWATER DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, STORMWATER LAYOUT PLANS, NOTES AND DETAILS.
2. STORMWATER PITS ARE TO BE CONSTRUCTED INSITU IN ACCORDANCE WITH DRAWINGS OR AS VARIED AS NOTED ON THE DRAWING. PREFABRICATED STORMWATER PITS CAN BE USED SUBJECT TO WRITTEN APPROVAL FROM THE SUPERINTENDENT. CLASS D HEAVY DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN TRAFFIC AREAS, CLASS B LIGHT DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
3. ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
4. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
5. ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR DN150 & DN225, AND CLASS 'SN6' FOR DN100 UNLESS NOTED OTHERWISE.
6. PIPES SHALL BE LAID AT MIN. 1% GRADE UNLESS NOTED OTHERWISE.
7. CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAIN LINES. ANY CONFLICT SHALL BE REPORTED TO THE SUPERINTENDENT FOR ANY NECESSARY ALTERATIONS PRIOR TO ANY CONSTRUCTION OF CONNECTING PIPEWORK.
8. WHERE PIPES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL LOADINGS (e.g. BUILDING FOOTINGS, RETAINING WALLS...etc). THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE.
9. BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
10. WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
11. ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE WORK HEALTH AND SAFETY ACT 2011 AND SUBSEQUENT AMENDMENTS.
12. ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
13. ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
14. ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
15. INSTALL 150mm DIAMETER PVC ROOFWATER HOUSE CONNECTION STUB INTO ROOFWATER PITS. INSTALL AT 750mm DEPTH TYPICAL OR 50mm FROM THE BASE OF PIT (WHICHEVER IS SHALLOWER).

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

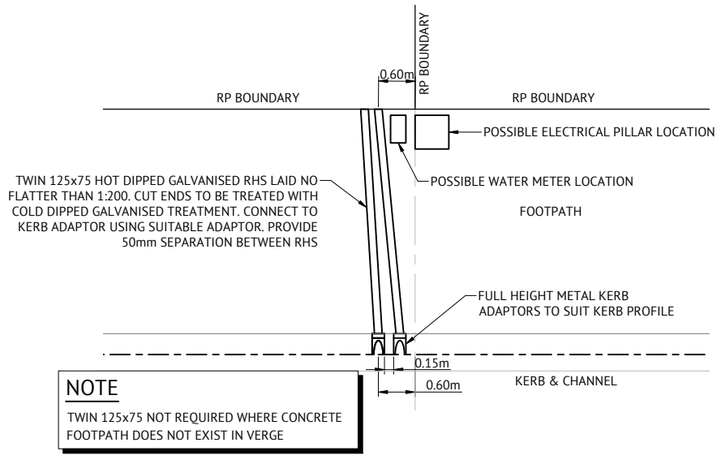
STRUCTURE TYPE	HORIZONTAL CONTROL POINT [REFERENCE POINT LOCATION]	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION OF HEADWALL FACE AND PIPE CENTRE LINE	INVERT LEVEL
FIELD INLET	CENTRE OF PIT	TOP OF CONCRETE PIT
ROOFWATER PIT	CENTRE OF PIT	TOP OF GRATE

EXCAVATION IN ROCK NOTE:

CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

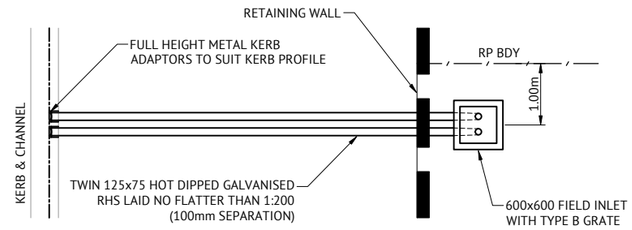
TRENCH SPOIL NOTE:

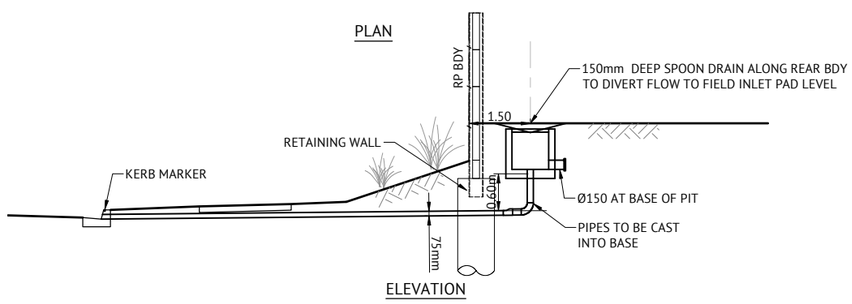
SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.



TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL

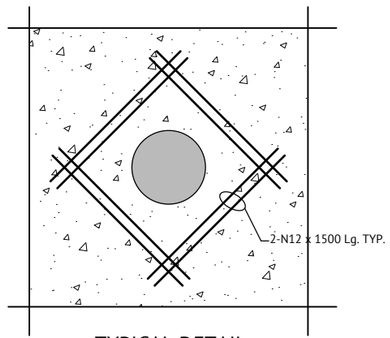
N.T.S.





TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL

N.T.S.



TYPICAL DETAIL

GRATED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

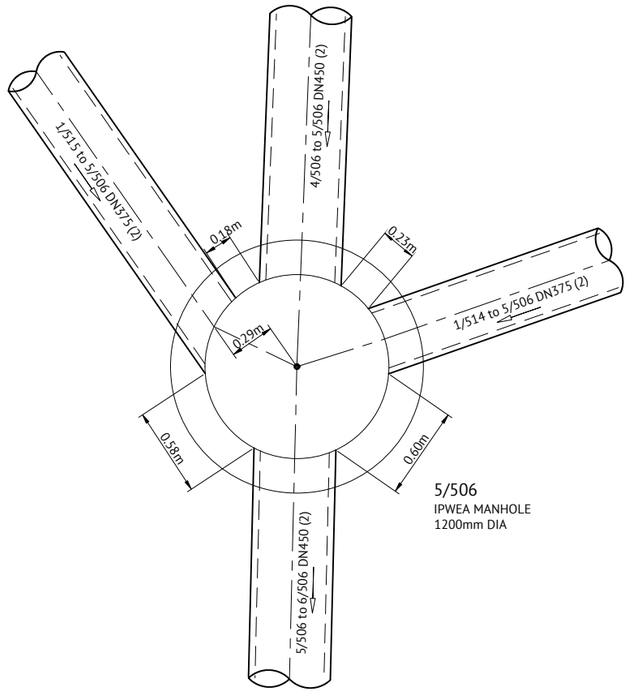
DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE NTS

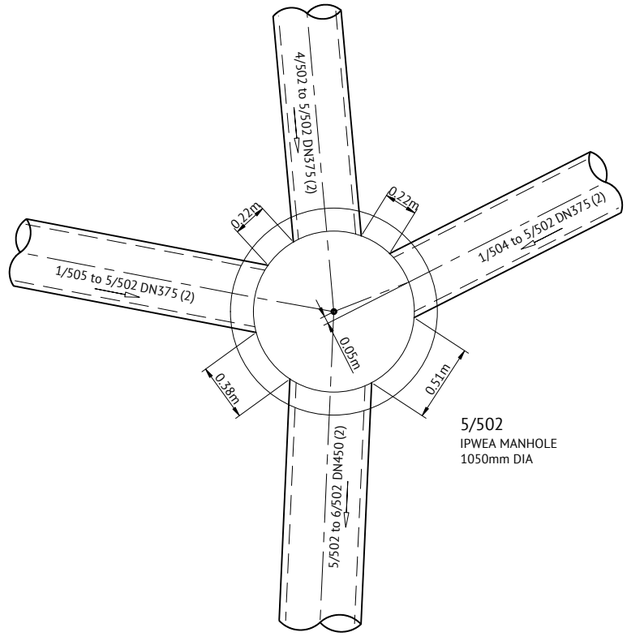
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC GROUP
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE MIR009-01
SHEET NUMBER C420
REV B



5/506
IPWEA MANHOLE
1200mm DIA



5/502
IPWEA MANHOLE
1050mm DIA

FOR CONSTRUCTION				
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 0.4 0.8 1.2m
SCALE 1:20 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE MIR009-01
SHEET NUMBER C430
REV B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES											PART FULL			DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn						
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY (MINOR STORM)	NORMAL DEPTH VELOCITY (1 YEAR STORM)	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min										m	m/s	m/s	m	m	m	m	m	m	
1/502	2/502	1/502	9.00	109	0.75	0.173	0.129	39	39	2.164	0.082	1.16	71	39	0	3/502	9.00	109	0.129	0	39	30.456	1.259	375	2	0.35	0.29	32	1.00		1.12	0.006	7.00	0.045		0.045	1.08	0.360	0.113	1.39	1.28	71.514	71.131	71.281	70.951	71.326	72.394	1/502
2/502	3/502	1/502 2/502	8.00	113	0.75	0.112	0.084	26	26	2.022	0.059	1.16	71	26	0	1/503	9.29	108	0.213	0	64	32.484	1.541	375	2	0.58	0.28	33 34	0.40	1.00	1.08	0.017	1.84	0.031		0.031	1.33	0.471	0.139	1.71	1.57	71.111	70.610	70.919	70.486	70.951	72.042	2/502
3/502	4/502	1/502 2/502 3/502	8.00	113	0.75	0.054	0.040	13	13	1.242	0.061	0.98	136	13	0	3/506	9.56	107	0.254	0	75	84.246	1.103	375	2	0.68	0.84	46 47	0.16	1.00	1.17	0.024	2.17	0.051	2.66	0.063	0.88	0.802	0.167	1.58	1.46	70.610	69.680	70.435	69.689	70.498	71.689	3/502
4/502	5/502	1/503 1/502 2/502 3/502 4/502	8.00	113	0.75	0.082	0.061	19	19	1.792	0.054	1.06	155	19	0	1/505	9.12	109	0.526	0	154	41.503	1.451	375	2	1.39	0.36	34 37	0.12	1.00	1.30	0.099	1.15	0.114		0.114	1.42	0.601	0.238	2.09	1.96	69.661	69.059	69.576	68.986	69.689	70.786	4/502
5/502																																													68.986	70.038	5/502
1/503	4/502	1/503	8.00	113	0.75	0.307	0.230	72	72	3.015	0.083	1.06	154	68	5	1/504	8.00	113	0.230	0	68	8.458	1.007	375	2	0.61	0.09	32	1.00		1.49	0.019	9.70	0.186		0.186	1.33	0.075	0.162	1.48	1.4	70.077	69.992	69.891	69.778	70.077	70.817	1/503
1/504	5/502	1/504	8.00	113	0.75	0.155	0.116	36	41	1.932	0.058	3.21	274	41	0	1/507	8.00	113	0.116	0	41	2.701	1.018	375	2	0.37	0.03	32	1.00		1.18	0.007	9.70	0.067		0.067	1.82	0.019	0.123	1.29	1.15	69.285	69.257	69.055	69.005	69.122	70.025	1/504
1/505	5/502	1/505	8.00	113	0.75	0.155	0.116	36	36	1.819	0.056	3.23	285	36	0	1/518	8.00	113	0.116	0	36	5.516	1.001	375	2	0.33	0.06	32	1.00		1.14	0.006	9.70	0.054		0.054	0.88	0.055	0.116	1.25	1.15	69.273	69.218	69.035	68.986	69.089	70.013	1/505
1/506	2/506																1.00	180	0.000	10	10	18.728	2.366	375	2	0.09	0.13					0.000	0.00	0.000		0.000	0.73	0.161	0.049	1.16	1.17	69.358	68.915	69.053	68.916	69.053	70.119	1/506
2/506	3/506	2/506	8.00	113	0.75	0.129	0.096	30	30	2.860	0.067	0.63	1468 2	30	0	3/506	8.00	113	0.096	0	30	16.627	1.307	375	2	0.27	0.15	32 33 34	0.75	1.00	1.06	0.004	5.90	0.023		0.023	0.03	0.005	0.099	1.31	1.2	68.895	68.677	68.894	68.889	68.916	69.973	2/506
3/506	4/506	2/506 3/506	8.00	113	0.75	0.332	0.249	78	78	3.598	0.097	0.48	105	73	5	1/515	8.00	113	0.343	0	102	6.418	0.674	375	2	0.93	0.08	32 34 37	0.71	1.00	1.62	0.044	4.98	0.218		0.218	0.34	0.022	0.234	1.41	1.34	68.657	68.614	68.671	68.649	68.889	69.681	3/506
4/506	5/506	1/513 2/506 3/506															8.08	113	0.518	0	157	64.936	0.553	450	2	0.99	0.81	34 37	0.00	1.00	1.07	0.050	0.64	0.032		0.032	0.30	0.195	0.288	1.46	1.38	68.625	68.266	68.618	68.423	68.649	69.695	4/506
5/506	TE/506	1/514 1/515 1/513 2/506 3/506															8.89	109	0.843	0	254	16.312	0.417	450	2	1.60	0.23	33 34	0.00	1.00	1.39	0.130	0.26	0.034		0.034	0.79	0.130	0.450	1.60	1.32	68.246	68.179	68.388	68.259	68.423	69.304	5/506
TE/506																																												68.259	69.212	TE/506
1/513	4/506	1/513	8.00	113	0.75	0.234	0.175	55	55	3.011	0.083	0.61	118	55	0	1/514	8.00	113	0.175	0	55	5.811	1.005	375	2	0.50	0.06	32	1.00		1.33	0.013	9.70	0.123		0.123	1.09	0.058	0.144	1.40	1.3	68.918	68.859	68.713	68.649	68.835	69.658	1/513
1/514	5/506	1/514	8.00	113	0.75	0.174	0.130	41	41	2.683	0.075	0.61	118	41	0	1/516	8.00	113	0.130	0	41	5.508	1.006	375	2	0.37	0.06	32	1.00		1.18	0.007	9.70	0.067		0.067	-0.00	0.003	0.123	1.29	1.19	68.519	68.463	68.423	68.423	68.490	69.259	1/514
1/515	5/506	1/515	8.00	113	0.75	0.260	0.194	61	66	3.227	0.088	0.61	119	65	2	1/517	8.00	113	0.194	0	65	4.526	1.023	375	2	0.58	0.05	32	1.00		1.45	0.017	9.70	0.169		0.169	0.00	0.006	0.158	1.46	1.33	68.514	68.468	68.423	68.423	68.592	69.269	1/515
1/524	2/524	1/524	6.00	122	0.76	0.034	0.025	9	9	0.980	0.035	3.71	289	9	0	1/525	6.00	122	0.025	0	9	12.766	3.457	375	2	0.08	0.07	32	1.00		1.01	0.000	9.70	0.003		0.003	1.95	0.275	0.042	1.26	1.16	70.280	69.838	69.970	69.717	69.973	71.249	1/524
2/524	3/524	1/524 2/524	8.00	113	0.75	0.272	0.204	64	64	2.252	0.065	3.71	290	54	10	3/524	8.00	113	0.229	0	62	35.000	3.188	375	2	0.56	0.21	32 34 37	0.86	1.00	1.25	0.016	5.68	0.092		0.092	2.64	0.979	0.113	2.21	2.08	69.818	68.702	69.625	68.700	69.717	70.878	2/524
3/524	4/524	1/525 1/524 2/524 3/524	8.00	113	0.75	0.128	0.096	30	40	1.852	0.056	3.85	296	40	0	4/524	8.21	112	0.441	0	137	45.800	4.332	375	2	1.24	0.23	33 34	0.29	1.00	1.32	0.079	1.51	0.119		0.119	4.40	1.974	0.159	3.07	2.83	68.682	66.698	68.581	66.564	68.700	69.577	3/524
4/524	TE/524	1/526 1/525 1/524 2/524 3/524 4/524	8.00	113	0.75	0.177	0.132	42	42	1.792	0.054	4.97	337	41	1	5/524	8.44	111	0.690	0	213	35.595	4.907	450	2	1.34	0.15	33 34	0.19	1.00	1.22	0.091	1.09	0.099		0.099	4.91	1.747	0.180	3.58	3.3	66.589	64.843	66.464	64.717	66.564	67.551	4/524
TE/524																																												64.717	65.793	TE/524
1/525	3/524	1/525	8.00	113	0.75	0.155	0.116	36	36	1.804	0.055	3.71	289	36	0	1/526	8.00	113	0.116	0	36	9.888	1.018	375	2	0.33	0.11	32	1.00		1.14	0.006	9.70	0.054		0.054	-0.01	0.037	0.116	1.25	1.15	68.937	68.836	68.699	68.700	68.753	69.799	1/525
1/526	4/524	1/526	8.00	113	0.75	0.156	0.117	37	37	1.704	0.052	4.69	335	37	0	1/527	8.00	113	0.117	0	37	11.057	3.388	375	2	0.33	0.08	32	1.00		1.14	0.006	9.70	0.054		0.054	0.88	0.155	0.088	1.86	1.7	66.911	66.537	66.674	66.564	66.728	67.934	1/526

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD

PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT

LOCATION TEVIOT ROAD, GREENBANK

SHEET TITLE STORMWATER CALCULATIONS 39% AEP STORM

JOB CODE MIR009-01

SHEET NUMBER C440

REV B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF			
			tc	I	C	A	CA	Q			Qg	Qb			tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	DEPTH x VELOCITY PRODUCT	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m	%	m	m	m/s	m	m	m	m	m	m	m	l/s	l/s	m^3/s	
1/502	2/502	1/502	9.00	242	1.00	0.173	0.173	116	116	1.16	94	22	3/502	9.00	242	0.173	0	94	30.456	1.259	375	2	0.85	0.29	32	1.00		2.29	0.037	4.20	0.156		0.156	0.29	0.088	0.183	1.76	71.514	71.131	71.840	71.752	71.996	72.394	1787	116	0.09	1/502
2/502	3/502	1/502 2/502	8.00	252	1.00	0.112	0.112	79	79	1.16	67	12	1/503	9.29	239	0.285	0	156	32.484	1.541	375	2	1.41	0.28	33 34	0.42	1.00	2.71	0.102	1.34	0.136		0.136	0.79	0.259	0.235	2.14	71.111	70.610	71.616	71.357	71.752	72.042	1787	79	0.06	2/502
3/502	4/502	1/502 2/502 3/502	8.00	252	1.00	0.054	0.054	38	59	0.98	8	52	3/506	9.56	237	0.339	0	160	84.246	1.103	375	2	1.45	0.84	46 47	0.05	1.00	3.08	0.107	1.68	0.179	2.00	0.213	0.83	0.701	0.270	1.88	70.610	69.680	71.178	70.477	71.391	71.689	1548	59	0.06	3/502
4/502	5/502	1/503 1/502 2/502 3/502 4/502	8.00	252	1.00	0.082	0.082	57	141	1.06	86	55	1/505	9.12	241	0.703	0	262	41.503	1.451	375	2	2.37	0.36	34 37	0.30	1.00	3.18	0.287	1.11	0.320		0.320	2.23	0.927	0.375	2.37	69.661	69.059	70.157	69.230	70.477	70.786	1787	141	0.08	4/502
5/502																																									69.230	70.038				5/502
1/503	4/502	1/503	8.00	252	1.00	0.307	0.307	215	143	1.06	41	102	1/504	8.00	252	0.307	0	41	8.458	1.007	375	2	0.37	0.09	32	1.00		2.19	0.007	6.19	0.043		0.043	0.05	0.005	0.123	1.29	70.077	69.992	70.482	70.477	70.524	70.817	1787	143	0.08	1/503
1/504	5/502	1/504	8.00	252	1.00	0.155	0.155	108	210	3.21	105	106	1/507	8.00	252	0.155	0	105	2.701	1.018	375	2	0.95	0.03	32	1.00		1.91	0.046	7.46	0.343		0.343	0.12	0.009	0.209	1.66	69.285	69.257	69.234	69.230	69.577	70.025	1775	210	0.13	1/504
1/505	5/502	1/505	8.00	252	1.00	0.155	0.155	109	163	3.23	84	80	1/518	8.00	252	0.155	0	84	5.516	1.001	375	2	0.76	0.06	32	1.00		1.68	0.029	8.71	0.256		0.256	0.15	0.011	0.183	1.57	69.273	69.218	69.239	69.230	69.495	70.013	1775	163	0.11	1/505
1/506	2/506													1.00	404	0.000	0	0	18.728	2.366	375	2	0.00	0.13					0.000	0.00	0.000		0.000	0.00	0.000	0.000	0.00	69.358	68.915	69.083	69.083	69.083	70.119				1/506
2/506	3/506	2/506	8.00	252	1.00	0.129	0.129	90	90	0.63	81	9	3/506	8.00	252	0.129	0	81	16.627	1.307	375	2	0.73	0.15	32	1.00		1.65	0.027	8.88	0.244		0.244	0.17	0.034	0.166	1.72	68.895	68.677	68.839	68.810	69.083	69.973	1264	90	0.05	2/506
3/506	4/506	2/506 3/506	8.00	252	1.00	0.332	0.332	233	293	0.48	75	219	1/515	8.00	252	0.459	0	154	6.418	0.674	375	2	1.39	0.08	34 37	0.48	1.00	1.56	0.099	2.10	0.208		0.208	1.14	0.049	0.345	1.45	68.657	68.614	68.602	68.528	68.810	69.681	1264	293	0.11	3/506
4/506	5/506	1/513 2/506 3/506												8.08	251	0.693	0	177	64.936	0.553	450	2	1.12	0.81	34 37	0.00	1.00	1.06	0.063	0.44	0.028		0.028	0.50	0.348	0.315	1.49	68.625	68.266	68.490	68.163	68.518	69.695				4/506
5/506	TE/506	1/514 1/515 1/513 2/506 3/506												8.89	243	1.126	0	179	16.312	0.417	450	2	1.13	0.23	33 34	0.00	1.00	1.03	0.065	0.22	0.014		0.014	0.47	0.072	0.358	1.32	68.246	68.179	68.149	68.072	68.163	69.304				5/506
TE/506																																									68.072	69.212				TE/506
1/513	4/506	1/513	8.00	252	1.00	0.234	0.234	164	164	0.61	25	139	1/514	8.00	252	0.234	0	25	5.811	1.005	375	2	0.23	0.06	32	1.00		1.07	0.003	9.70	0.026		0.026	1.30	0.052	0.096	1.13	68.918	68.859	68.656	68.580	68.681	69.658	1264	164	0.08	1/513
1/514	5/506	1/514	8.00	252	1.00	0.174	0.174	122	260	0.61	2	259	1/516	8.00	252	0.174	0	2	5.508	1.006	375	2	0.01	0.06	32	1.00		1.00	0.000	9.70	0.000		0.000	0.14	0.016	0.025	0.49	68.519	68.463	68.171	68.163	68.171	69.259	1264	260	0.11	1/514
1/515	5/506	1/515	8.00	252	1.00	0.260	0.260	182	401	0.61	26	374	1/517	8.00	252	0.260	0	26	4.526	1.023	375	2	0.24	0.05	32	1.00		1.08	0.003	9.70	0.028		0.028	1.36	0.040	0.099	1.14	68.514	68.468	68.255	68.191	68.283	69.269	1264	401	0.15	1/515
1/524	2/524	1/524	6.00	275	1.00	0.034	0.034	26	26	3.71	26	0	1/525	6.00	275	0.034	0	26	12.766	3.457	375	2	0.23	0.07	32	1.00		1.07	0.003	9.70	0.027		0.027	-0.18	0.005	0.071	1.75	70.280	69.838	70.032	70.055	70.058	71.249	1743	26	0.04	1/524
2/524	3/524	1/524 2/524	8.00	252	1.00	0.272	0.272	190	190	3.71	117	73	3/524	8.00	252	0.306	0	141	35.000	3.188	375	2	1.27	0.21	32 34 37	0.82	1.00	1.89	0.083	4.06	0.335		0.335	1.43	0.552	0.176	2.76	69.818	68.702	69.720	69.218	70.055	70.878	1743	190	0.13	2/524
3/524	4/524	1/525 1/524 2/524 3/524	8.00	252	1.00	0.128	0.128	90	163	3.85	106	58	4/524	8.21	250	0.589	0	322	45.800	4.332	375	2	2.92	0.23	33 34	0.32	1.00	2.46	0.434	1.26	0.546		0.546	3.40	1.566	0.274	3.73	68.682	66.698	68.672	67.113	69.218	69.577	1743	163	0.12	3/524
4/524	TE/524	1/526 1/525 1/524 2/524 3/524 4/524	8.00	252	1.00	0.177	0.177	124	181	4.97	113	68	5/524	8.34	249	0.918	0	523	35.595	4.907	450	2	3.29	0.15	33 34	0.21	1.00	2.19	0.551	0.97	0.535		0.535	4.73	1.691	0.312	4.44	66.589	64.843	66.578	64.895	67.113	67.551	1680	181	0.13	4/524
TE/524																																									64.895	65.793				TE/524
1/525	3/524	1/525	8.00	252	1.00	0.155	0.155	108	108	3.71	79	29	1/526	8.00	252	0.155	0	79	9.888	1.018	375	2	0.72	0.11	32	1.00		2.23	0.026	6.04	0.159		0.159	0.20	0.021	0.177	1.55	68.937	68.836	69.238	69.218	69.398	69.799	1743	108	0.09	1/525
1/526	4/524	1/526	8.00	252	1.00	0.156	0.156	109	138	4.69	95	43	1/527	8.00	252	0.156	0	95	11.057	1.129	375	2	0.86	0.13	32	1.00		2.24	0.038	6.00	0.226		0.226	0.29	0.037	0.197	1.62	66.911	66.786	67.149	67.113	67.376	67.934	1680	138	0.11	1/526

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: K KIWANG
CHECKED: A LANGDON
PROJECT MANAGER: S STEINHOFER
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

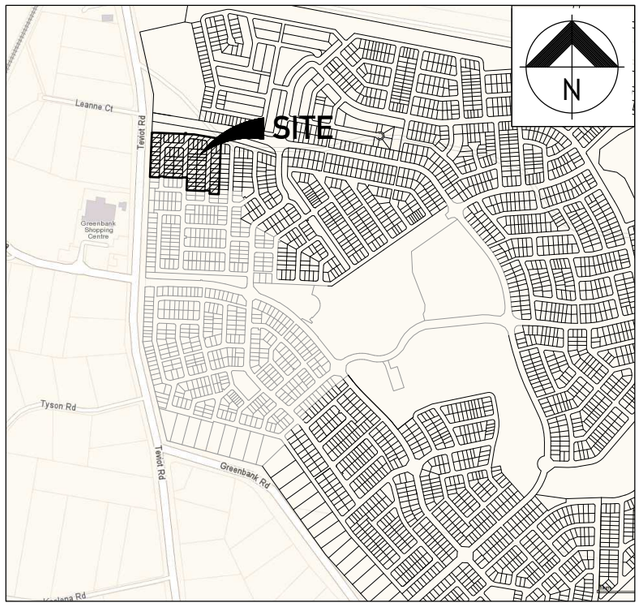
CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER CALCULATIONS 1% AEP STORM

JOB CODE: MIR009-01
SHEET NUMBER: C441
REV: B

EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK
FOR MIRVAC QLD PTY LTD

SEWERAGE



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

NAME OF ESTATE		EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
SUBDIVIDER		Mirvac QLD Pty Ltd
APPLICATION No.		-
SP DELEGATE APPROVAL DATE		-
COUNCIL DA APPROVAL No.		-
DRAWING/PLAN No.		C510
No. OF ALLOTMENTS		63
AREA ha		3.64
LENGTH OF SEWERS	DN150 uPVC SN8	845m
	DN225 uPVC SN8	

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN
C520	SEWERAGE LONG SECTIONS - SHEET 1 OF 3
C521	SEWERAGE LONG SECTIONS - SHEET 2 OF 3
C522	SEWERAGE LONG SECTIONS - SHEET 3 OF 3
C530	SEWERAGE NOTES AND DETAILS

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER LOGAN WATER SUPERVISION AT THE DEVELOPER'S COST.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN100 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER,BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK AND LEVELS TO AHD.
14. REFER TO BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS.
15. ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT. FOR INFORMATION PHONE: 1300 369 915.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER SYSTEM.
17. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SAFE SHORING TO ALLOW SEWER MAINTENANCE SECTION TO CARRY OUT LIVE SEWER WORK.
18. CONSTRUCT TRENCHES TO SEQ-SEW-1200-2, WITH EMBEDMENT TYPE 3 SUPPORT MINIMUM TO SEQ-SEW-1201-1, AND ROAD CROSSINGS TO SEQ-SEW-1205-1 AND LCC STANDARDS.
19. CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1100 SERIES.
20. CONSTRUCT MAINTENANCE STRUCTURES TO SEQ-SEW-1300 SERIES.
21. CONSTRUCT BULKHEADS TO SEQ-SEW-1206-1.
22. INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS.
23. CALCAREOUS CONCRETE IN MAINTENANCE HOLES REQUIRED IN ACCORDANCE WITH SEQ WS&S D&C CODE REQUIREMENTS.
24. CCTV OF SEWER TO BE UNDERTAKEN AND SUPPLIED TO SUPERINTENDENT PRIOR TO, BUT NO GREATER THAN 2 WEEKS BEFORE, THE ON-SITE INSPECTION FOR OFF MAINTENANCE.

VEGETATION PROTECTION

A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES S HALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
C. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST

SOIL

A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
C. IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA, ACID SULPHATE SOILS ARE TO MANAGED IN ACCORDANCE WITH AN APPROVED ACID SULPHATE SOIL MANAGEMENT PLAN.

CREEK CROSSINGS

A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SAFETY

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO COMMENCING ANY CONSTRUCTION WORK, INCLUDING CLEARING.

ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF HEALTH & SAFETY FOR INFORMATION.
PHONE: 1300 369 915

CONTACT "DIAL BEFORE YOU DIG" ON 1100 FOR LOCATION OF EXISTING PUBLIC SERVICES PRIOR TO EXCAVATION.

TRENCH SPOIL NOTE:

SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

EXCAVATION IN ROCK NOTE:

CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

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REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 200 400 600m
SCALE 1:10000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LOCALITY PLAN & NOTES

JOB CODE MIR009-01
SHEET NUMBER C500
REV B

LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BDY WITH DWAY. 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY. TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- LOT NUMBER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY

LEGEND - EXISTING

- Ø100mm EXISTING PROPERTY CONNECTION
- STORMWATER DRAINAGE
- GRAVITY SEWER
- SEWER RISING MAIN
- SEWER TRUNK MAIN
- DRINKING WATER MAIN
- EXISTING CONTOURS (0.50m)

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH TO INVERT OF PROPERTY CONNECTION AT 1.5m, UNLESS OTHERWISE STATED.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

CONTRACTOR TO ENSURE THAT ALL SLOPED PROPERTY CONNECTIONS LOCATED AT REAR OF LOTS SHALL TERMINATE AT SHORTEST LENGTH POSSIBLE FROM THE JUNCTION WITH THE SEWER MAIN.

CONTRACTOR TO CONSTRUCT PROPOSED SEWER MANHOLES WITH SUFFICIENT NECK HEIGHT SHOULD FUTURE LAND OWNER REQUIRE ADJUSTMENT TO LID LEVEL TO SUIT POTENTIAL DRIVEWAY.

EXISTING HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
3001	68.066	1.250
3025	68.853	1.250
3040	68.843	1.250
3041	68.426	1.250
3042	68.009	1.250
3043	67.529	1.250
3044	64.773	1.250
3065	65.158	1.250
3066	64.341	1.250

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	B	REMOVED PLAN SEALING HATCH ON PRECINCT 9.1B AND 9.1C, ADDED ELECTRICAL	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

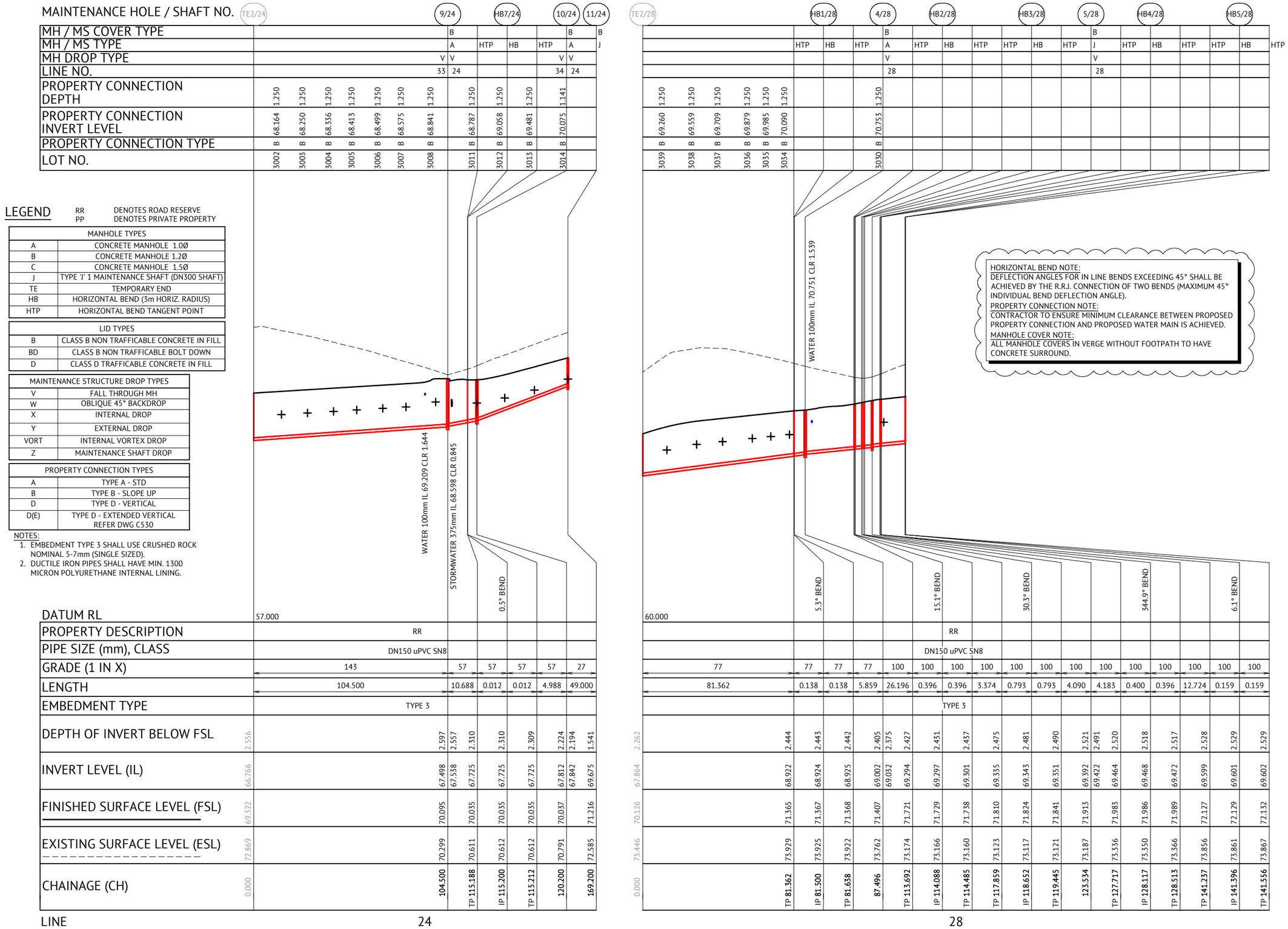
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LAYOUT PLAN

JOB CODE MIR009-01
SHEET NUMBER C510
REV C



LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00Ø
B	CONCRETE MANHOLE 1.20Ø
C	CONCRETE MANHOLE 1.50Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL BEND TANGENT POINT

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL
D(E)	TYPE D - EXTENDED VERTICAL REFER DWG C530

NOTES:
1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

MANHOLE COVER NOTE:
ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	B	AMENDMENT TO NOTES AND ADDED MANHOLE COVER NOTE	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

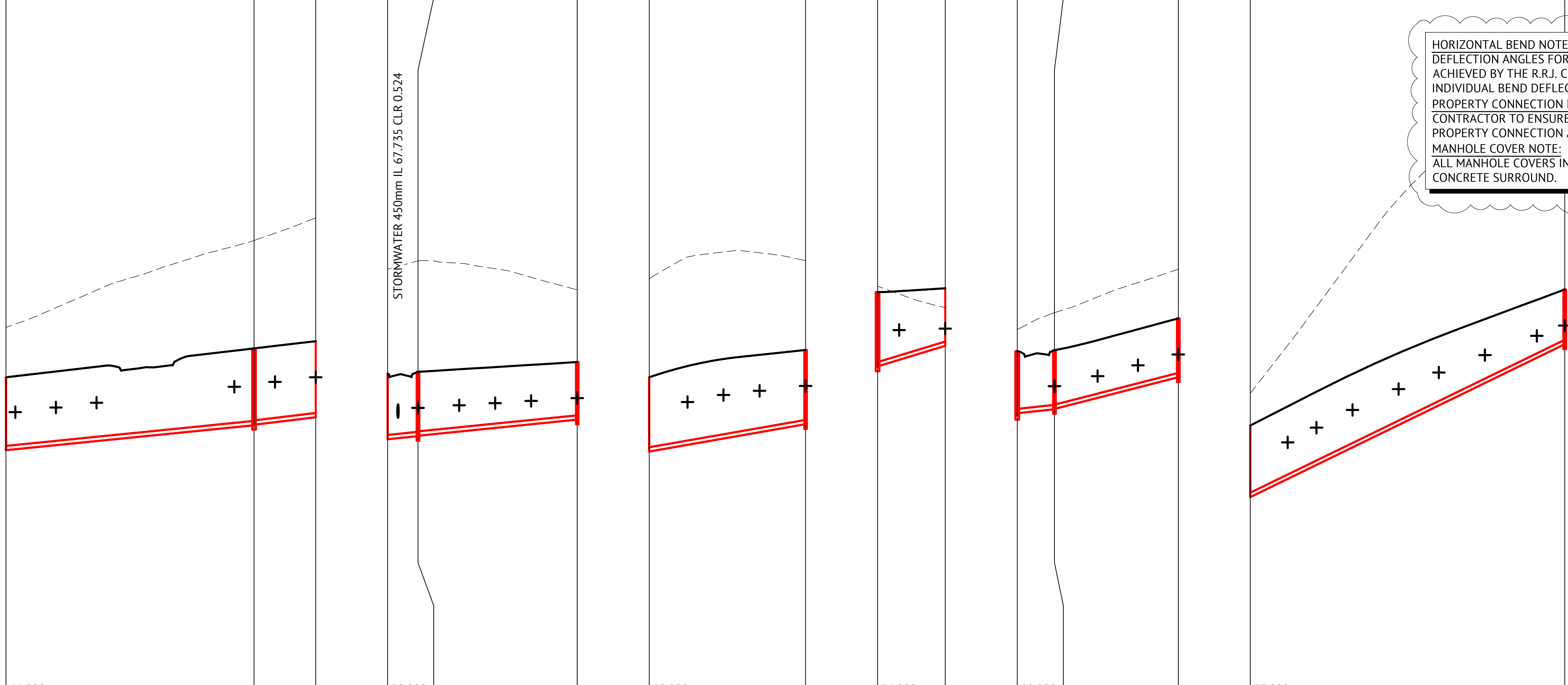
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LONG SECTIONS - SHEET 1 OF 3

JOB CODE MIR009-01
SHEET NUMBER C520
REV C

MAINTENANCE HOLE / SHAFT NO.

	HTP	6/28	7/28	TE1/30	1/30	2/30	TE1/31	3/31	9/24	E/33	10/24	1/34	2/34	TE1/40	2/40
MH / MS COVER TYPE		B			B	B		B	B		B	B	B		B
MH / MS TYPE	HTP	A	END		J	J		J	A	END	A	J	J		J
MH DROP TYPE		V			V				V V		V V	V			
LINE NO.		28			30				33 24		34 24	34			

LOT NO.	PROPERTY CONNECTION DEPTH	PROPERTY CONNECTION INVERT LEVEL	PROPERTY CONNECTION TYPE
3031	1.250	70.923	B
3032	1.250	71.087	B
3033	1.250	71.251	B
3055	1.250	71.807	B
3056	1.250	71.974	B
3057	1.250	72.137	B
3024	1.250	68.074	B
3023	1.250	68.162	B
3022	1.250	68.238	B
3021	1.250	68.315	B
3020	1.250	68.413	B
3026	1.250	69.275	B
3027	1.250	69.520	B
3028	1.250	69.664	B
3029	1.250	69.833	B
3009	1.350	68.775	B
3010	1.400	68.826	B
3016	1.250	68.827	B
3017	1.250	69.173	B
3018	1.250	69.552	B
3019	1.250	69.929	B
3064	1.250	65.874	B
3063	1.250	66.385	B
3062	1.250	67.000	B
3061	1.250	67.726	B
3060	1.250	68.301	B
3059	1.250	68.905	B
3058	1.250	69.573	B
3054	1.250	69.932	D(E)



HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).
PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.
MANHOLE COVER NOTE:
ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL BEND TANGENT POINT

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL
D(E)	TYPE D - EXTENDED VERTICAL REFER DWG C530

NOTES:
1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

LINE	DATUM RL	PROPERTY DESCRIPTION	PIPE SIZE (mm), CLASS	GRADE (1 IN X)	LENGTH	EMBEDMENT TYPE
28	61.000	RR	DN150 uPVC SN8	100 / 85	86.154 / 21.403	TYPE 3
30	58.000	RR	DN150 uPVC SN8	100 / 100	10.548 / 55.297	TYPE 3
31	59.000	RR	DN150 uPVC SN8	57	54.297	TYPE 3
33	56.000	RR	DN150 uPVC SN8	34	23.500	TYPE 3
34	58.000	RR	DN150 uPVC SN8	99 / 40	12.927 / 43.000	TYPE 3
40	57.000	RR	DN150 uPVC SN8	21	109.200	TYPE 3

LINE	POINT	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)	CHAINAGE (CH)
28	HTP	2.529	69.602	72.132	73.867	TP 141.556
28	6/28	2.673 / 2.643	70.464 / 70.494	73.137	76.885	227.710
28	7/28	2.642	70.745	73.387	77.670	249.113
30	TE1/30	2.278	66.983	69.261	72.891	0.000
30	1/30	2.235 / 2.215	67.088 / 67.108	69.324	73.179	10.548
30	2/30	2.002	67.661	69.663	72.171	65.845
31	TE1/31	2.581	67.555	70.136	73.541	0.000
31	3/31	2.582	68.501	71.083	74.188	54.297
33	9/24	2.597 / 2.567	67.498 / 67.528	70.095	70.299	0.000
33	E/33	2.000	68.226	70.226	69.551	23.500
34	10/24	2.224 / 2.144	67.812 / 67.892	70.037	70.791	0.000
34	1/34	2.054 / 2.034	68.023 / 68.043	70.077	71.380	12.927
34	2/34	2.048	69.131	71.179	72.888	55.927
40	TE1/40	2.485	63.974	66.460	67.575	0.000
40	2/40	1.912	69.271	71.182	76.411	109.200

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	B	AMENDMENT TO NOTES AND ADDED MANHOLE COVER NOTE	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LONG SECTIONS - SHEET 2 OF 3

JOB CODE MIR009-01
SHEET NUMBER C521
REV C

MAINTENANCE HOLE / SHAFT NO. TE3/42 — 22/42

MH / MS COVER TYPE										B
MH / MS TYPE										J
MH DROP TYPE										
LINE NO.										
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	
PROPERTY CONNECTION INVERT LEVEL	65.489	66.128	66.756	67.416	68.100	68.644	69.237	69.608	69.979	
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B	B	B	
LOT NO.	3045	3046	3047	3048	3049	3050	3051	3052	3053	

LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

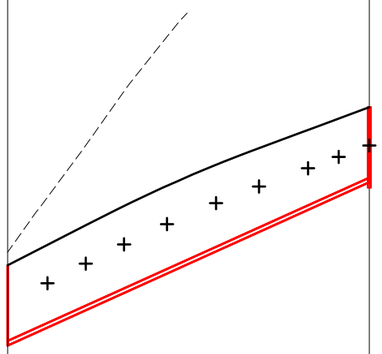
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL BEND TANGENT POINT

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL
D(E)	TYPE D - EXTENDED VERTICAL REFER DWG C530

NOTES:
1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.



HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

MANHOLE COVER NOTE:
ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

DATUM RL	56.000	
PROPERTY DESCRIPTION	RR	
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	
GRADE (1 IN X)	22	
LENGTH	118.000	
EMBEDMENT TYPE	TYPE 3	
DEPTH OF INVERT BELOW FSL	2.617	2.461
INVERT LEVEL (IL)	63.458	68.768
FINISHED SURFACE LEVEL (FSL)	66.074	71.229
EXISTING SURFACE LEVEL (ESL)	66.499	76.048
CHAINAGE (CH)	0.000	118.000
LINE	42	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	B	AMENDMENT TO NOTES AND ADDED MANHOLE COVER NOTE	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LONG SECTIONS - SHEET 3 OF 3

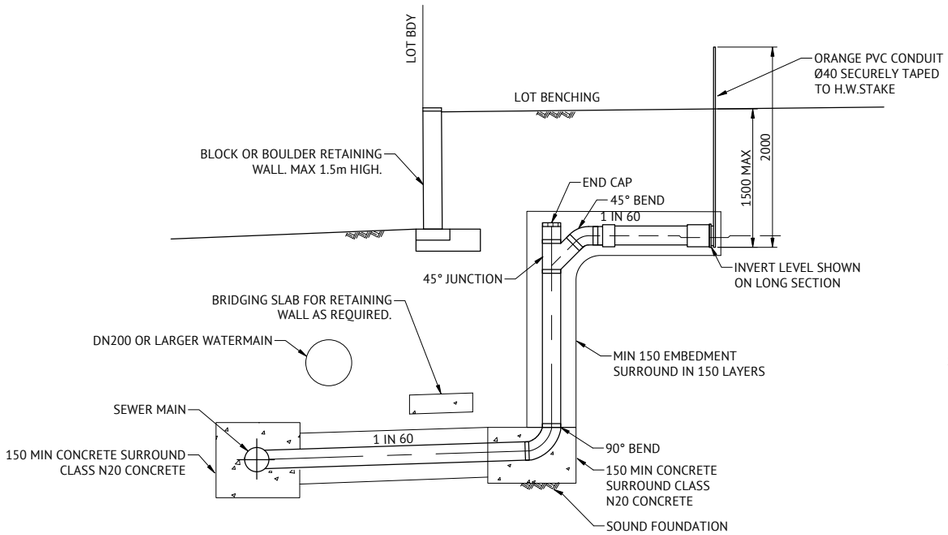
JOB CODE MIR009-01
SHEET NUMBER C522
REV C

LIVE SEWER WORKS

No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE2/24, CONSTRUCTOR TO LAY NEW LINE 24. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE2/24	END	-	3001	69.322	72.869	66.766	2.556
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 24 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP TE1/30, CONSTRUCTOR TO LAY NEW LINE 30. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/30	END	-	3001	69.261	72.891	66.983	2.278
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 30 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP TE1/31, CONSTRUCTOR TO LAY NEW LINE 31. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/31	END	-	3025	70.136	73.541	67.555	2.581
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 31 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
4(A)	0.5m FROM STUB END CAP TE2/28, CONSTRUCTOR TO LAY NEW LINE 28. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE2/28	END	-	3040	70.126	73.446	67.864	2.262
4(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 28 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
5(A)	0.5m FROM STUB END CAP TE3/42, CONSTRUCTOR TO LAY NEW LINE 42. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE3/42	END	-	3044	66.074	66.499	63.458	2.617
5(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 42 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
6(A)	0.5m FROM STUB END CAP TE1/40, CONSTRUCTOR TO LAY NEW LINE 40. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/40	END	-	3065	66.460	67.575	63.974	2.485
6(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 40 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

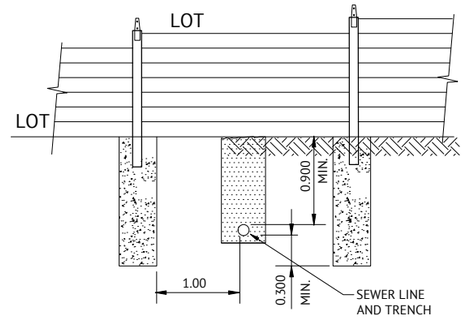
LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS.
AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR).
EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO SEQ-SPS PRIOR TO SEQ-SPS COMMENCING ANY WORK.
IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.



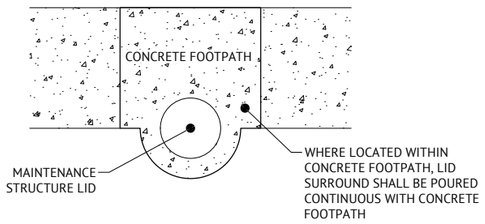
EXTENDED PROPERTY CONNECTION WHERE PROPERTY CONNECTION CROSSES RETAINING WALL OR DN200 OR LARGER WATERMAIN - TYPE D (E)

NTS



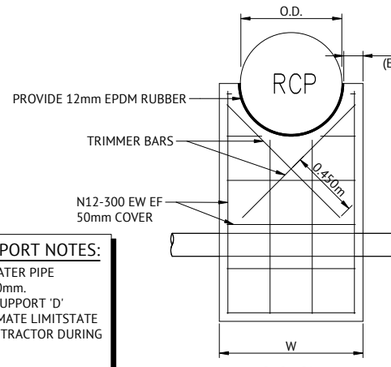
SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL

NTS

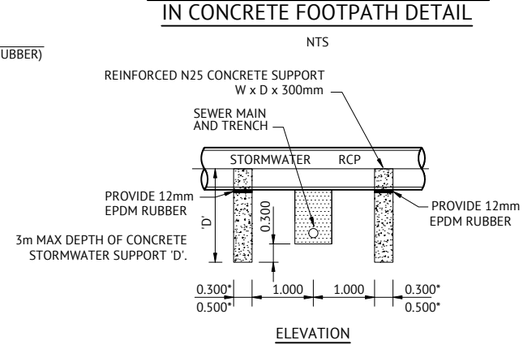


TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL

NTS



SECTION



ELEVATION

GENERAL CONCRETE STORMWATER SUPPORT NOTES:

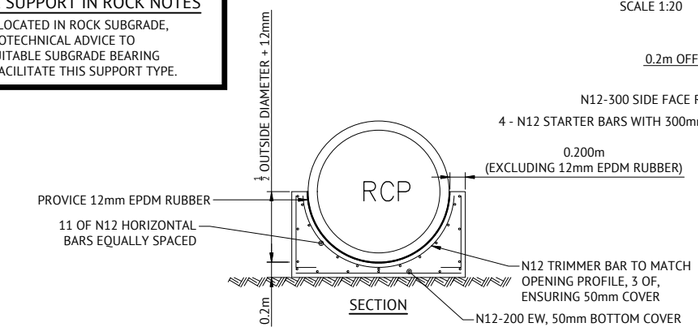
1. SUPPORTS TO BE INSTALLED WHERE STORMWATER PIPE DIAMETER IS EQUAL TO OR GREATER THAN 600mm.
2. 3m MAX DEPTH OF CONCRETE STORMWATER SUPPORT 'D'
3. DESIGN BASED ON ACHIEVING 100kPa OF ULTIMATE LIMITSTATE BEARING CAPACITY. TO BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION.
4. 0.300m* WIDTH UP TO 1050 RCP CLASS 2
5. 0.500m* WIDTH BETWEEN 1050 AND 1800 RCP CLASS 2

CONCRETE STORMWATER SUPPORT IN ROCK NOTES

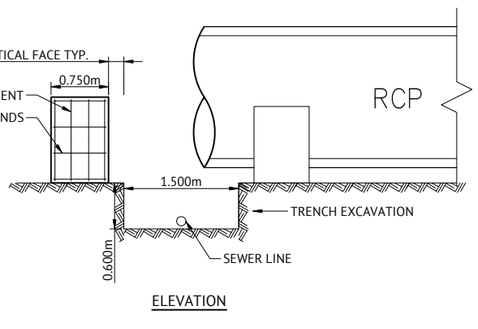
WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.

CONCRETE STORMWATER SUPPORT TYPICAL DETAIL

SCALE 1:20



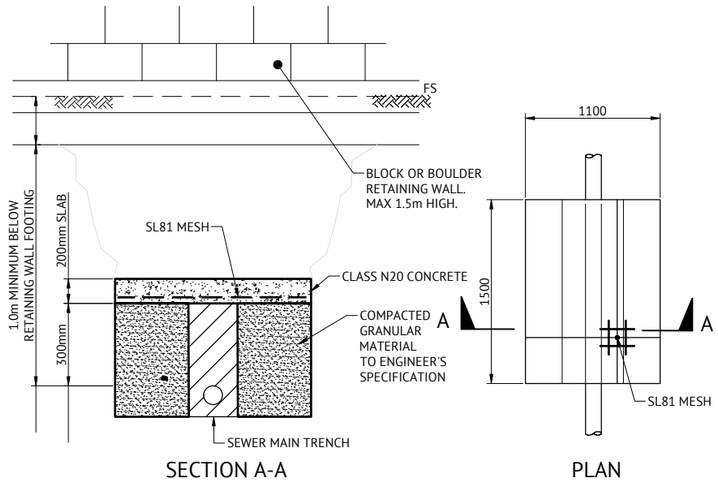
SECTION



ELEVATION

CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40



SECTION A-A

PLAN

SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

NTS

STRUCTURAL DETAILS APPROVED	DATE
BRIONY HOOPER	05/11/2021
	RPEQ 10854

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	B	AMENDED LIVE SEWER WORKS NUMBERS	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 0.8 1.6 2.4m
SCALE 1:40 (A1)
0 0.4 0.8 1.2m
SCALE 1:20 (A1)
ORIGINAL SHEET SIZE A1

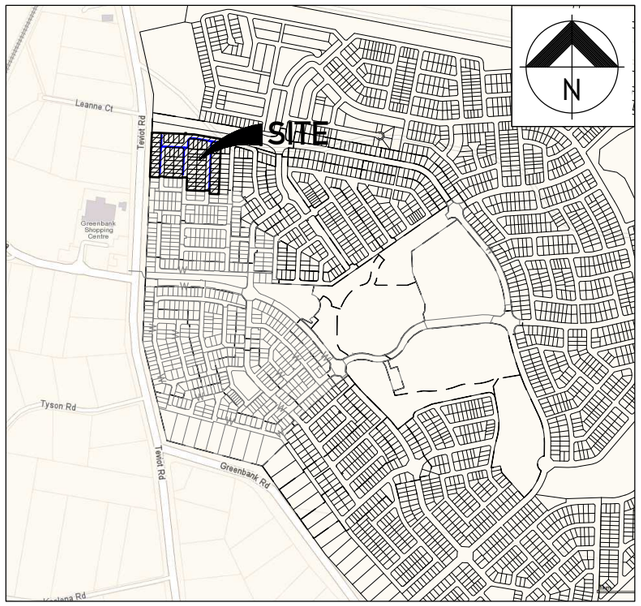
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE NOTES AND DETAILS

JOB CODE MIR009-01
SHEET NUMBER C530
REV C

EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK
FOR MIRVAC QLD PTY LTD

WATER RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN
C611	WATER RETICULATION LIVE CONNECTION DETAILS

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH SEQ-SP's ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP's
7. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS. WHERE POSSIBLE
8. CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
9. ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128.
10. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
11. CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2, PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND LCC STANDARDS.
12. INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
13. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
14. INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
15. INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.

VEGETATION PROTECTION

1. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
2. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
3. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED, IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

1. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
2. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

1. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
2. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
3. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

1. PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
2. PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED, ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION SHALL BE REHABILITATED, HEAVILY COMPACTED AREAS SHOULD BE RIPPED PRIOR TO TREATMENT.
3. ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
4. ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.

CONSTRUCTION REQUIREMENTS

1. LIVE WATER CONNECTIONS TO BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT UNDER LOGAN WATER SUPERVISION AT DEVELOPERS EXPENSE AT LOCATION MARKED.
2. PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
3. UPON COMPLETION OF ALL WORKS, CONTRACTORS SHALL SUPPLY THE SUPERVISING RPEQ DETAILED "AS CONSTRUCTED" INFORMATION OF THE WORK. "AS CONSTRUCTED" INFORMATION SHALL COMPLY WITH CURRENT SEQ CODE OR LOCAL AUTHORITY STANDARDS FOR PLAN AND DIGITAL INFORMATION.
4. CONTRACTOR IS TO BE RESPONSIBLE FOR ARRANGING ALL LOGAN WATER CONNECTIONS AND PAYMENTS OF CONNECTION FEES.

TRENCH SPOIL NOTE:

SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

EXCAVATION IN ROCK NOTE:

CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

RPEQ CERTIFICATION

THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO LOGAN WATER RETICULATION SYSTEM. ALL RPEQ CERTIFIED DRAWINGS COMPLY WITH SEQ CODE AND LOGAN WATER REQUIREMENTS.

INSPECTION REQUIREMENTS

PRIOR TO COMMENCEMENT OF WORKS, CONTACT PREMISE (07) 3253 2222 AND LOGAN WATER TO CONFIRM INSPECTION REQUIREMENTS INCLUDING LIVE CONNECTIONS.

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

INSPECTIONS ARE REQUIRED TO BE ORGANIZED WITH PREMISE AND LOGAN WATER. ANY COSTS ASSOCIATED WITH ENGAGING LOGAN WATER TO UNDERTAKE INSPECTIONS OUTSIDE OF THE FEE PAID SHALL BE BORNE BY THE CONTRACTOR.

ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO COMMENCING ANY CONSTRUCTION WORK, INCLUDING CLEARING.

ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128

SEQ CODE STD DRAWING SCHEDULE

SOIL CLASSIFICATION	SEQ-WAT-1200-1
EMBEDMENT AND TRENCH FILL	SEQ-WAT-1200-2
THRUST BLOCK DETAILS	SEQ-WAT-1205-1
VALVE THRUST BLOCKS	SEQ-WAT-1206-1
IDENTIFICATION MARKERS	SEQ-WAT-1300-1,2

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

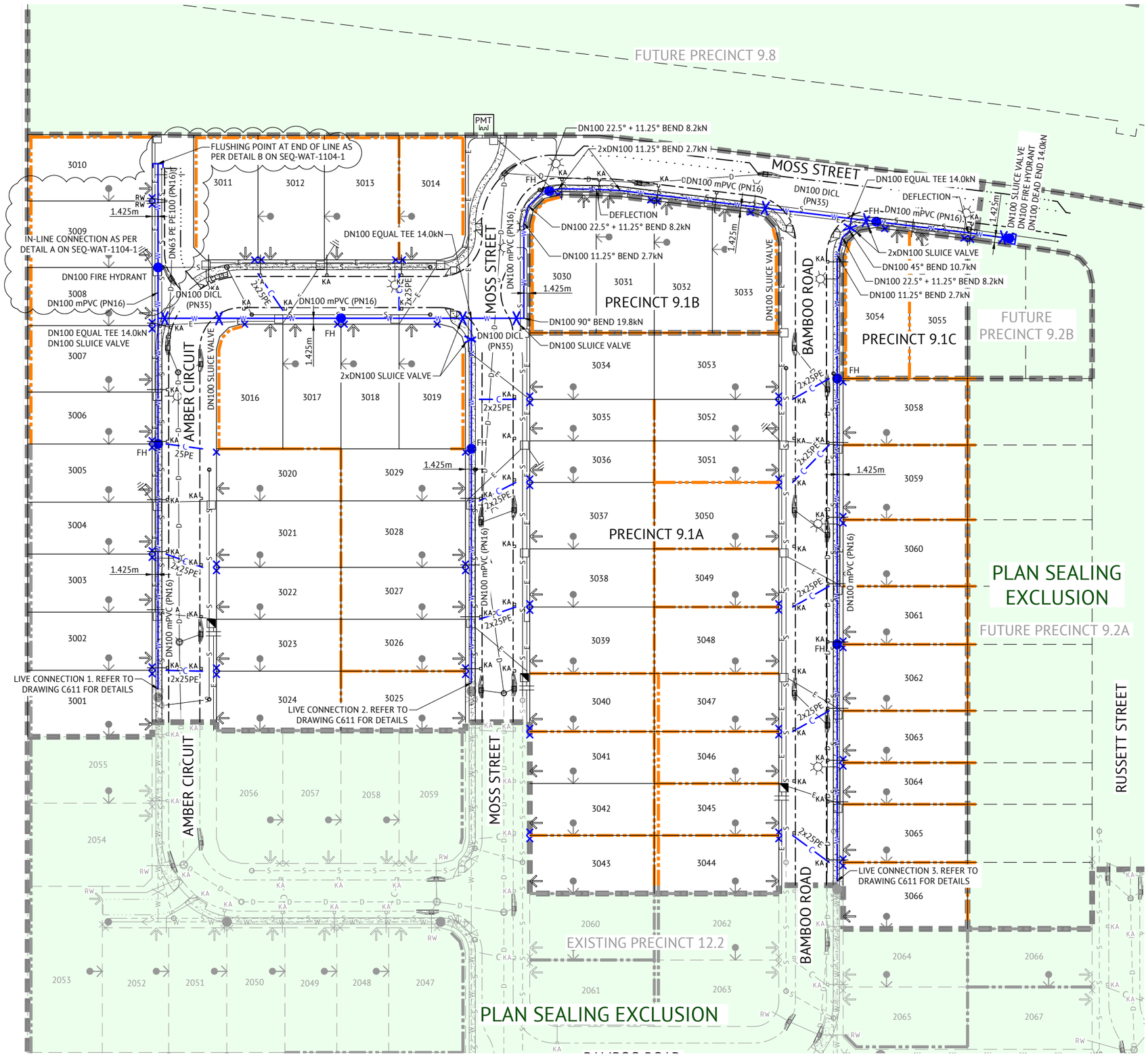
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 200 400 600m
SCALE 1:10000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE MIR009-01
SHEET NUMBER C600
REV B



LEGEND - PROPOSED

W	POTABLE WATERMAIN
DN25 PE	POTABLE WATER RETICULATION CONDUIT
	WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
W	SLUICE VALVE
FH	FIRE HYDRANT
W	TEST POINT
W	DEAD END
DEFLECTION	TRUNCATIONS 5 DEGREES OR LESS
38	LOT NUMBER
D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
E	ELECTRICITY
	ZERO LOT BOUNDARY
	PREFERRED DRIVEWAY LOCATION (BY OTHERS)
	SITE BOUNDARY
	PROPOSED RETAINING WALL
PMT	PAD MOUNTED TRANSFORMER

LEGEND - EXISTING

W	WATER
W	SLUICE VALVE
FH	FIRE HYDRANT
W	TEST POINT
W	SCOUR BRANCH
W	DEAD END
	WATER METER
D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
E	ELECTRICAL
T	TELSTRA
G	GAS

LIVE CONNECTION NOTES:

1. LIVE CONNECTIONS BY LOGAN WATER
2. LIVE CONNECTION IN ACCORDANCE WITH SEQ-WAT-1303-1
3. THRUST BLOCKS NOT SHOWN FOR CLARITY.
4. PRE-CHLORINATION FITTINGS AS REQUIRED.

INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED DATE:

NAME of SIGNATORY

RPEQ No. or LICENCE

COMPANY NAME

START DATE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
15/10/2021	B	UPDATED WATER MAIN SIZE ADJACENT LOTS 3009 & 3010	AL	PB
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

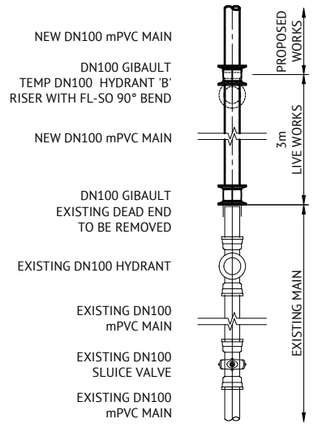
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LAYOUT PLAN

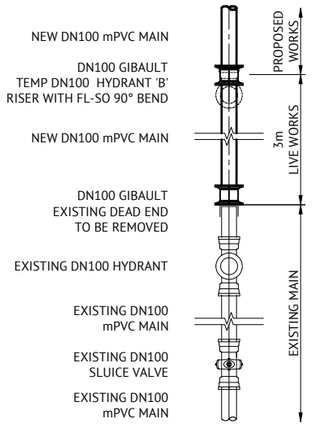
JOB CODE MIR009-01
SHEET NUMBER C610
REV C



CONNECTION 1

LIVE CONNECTION DETAIL

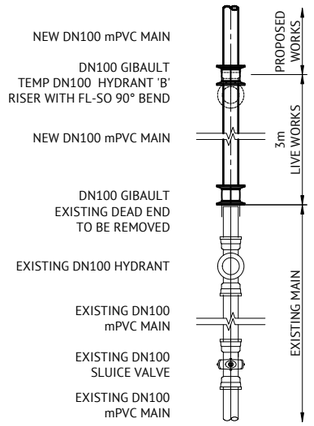
SCALE 1:25



CONNECTION 2

LIVE CONNECTION DETAIL

SCALE 1:25



CONNECTION 3

LIVE CONNECTION DETAIL

SCALE 1:25

LIVE CONNECTION NOTES:

1. LIVE CONNECTIONS BY LOGAN WATER
2. LIVE CONNECTION IN ACCORDANCE WITH SEQ-WAT-1303-1
3. THRUST BLOCKS NOT SHOWN FOR CLARITY.
4. PRE-CHLORINATION FITTINGS AS REQUIRED.

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED DATE:

NAME of SIGNATORY

RPEQ No. or LICENCE

COMPANY NAME

START DATE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021		ISSUED FOR CONSTRUCTION	KK	
07/05/2021	A	ORIGINAL ISSUE	KK	

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 0.5 1.0 1.5m
SCALE 1:25 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LIVE CONNECTION DETAILS

JOB CODE MIR009-01
SHEET NUMBER C611
REV A

NOTE

PRIOR TO FORECAST RAIN EVENTS INSTALL TEMPORARY BERMS, AS REQUIRED BASED ON EARTHWORK LEVELS TO REDUCE SLOPE GRADE AND LENGTH WITHIN LOTS AND ROAD BOX

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- FIELD INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-02 FOR DETAILS.
- FLOW DIRECTION OR RUNOFF
- MULCH BERM
- SF — SEDIMENT FENCE REFER IECA DRAWING SF-01 & SF-02 FOR DETAILS.
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION BUND
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- 12.0 — MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING MULCH BUND. BUILT DURING CLEARING AND GRUBBING PHASE
- EXISTING DIRTY WATER DIVERSION BUND. BUILT DURING CLEARING AND GRUBBING PHASE
- VEGETATION CLEARING EXTENT
- EXISTING RETAINING WALL TO PREVENT FLOW TO CONSTRUCTED PRECINCT. CONTRACTOR TO MONITOR DURING EARTHWORKS PHASE

INSTALLATION SEQUENCE EARTHWORKS

STEP 1
PERFORM EARTHWORKS ON LEADS CUT TO FILL ON SITE IN ACCORDANCE WITH THE CIVIL EARTHWORKS DRAWINGS.

STEP 2
ONCE FINAL CUT AND FILL BATTER LEVELS HAVE BEEN ACHIEVED, REMOVE REQUIRED TOPSOIL FROM STOCKPILED AREAS AND PLACE ON BATTERS AND OTHER DISTURBED AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.

STEP 3
AS SOON AS POSSIBLE AFTER TOPSOIL HAS BEEN PLACED ON BATTERS AND OTHER DISTURBED AREAS, THESE AREAS SHOULD BE STABILISED PER FINAL DESIGN TREATMENT (REFER DRAWING C701) WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C710). IF A RAINFALL EVENT IS FORECAST WHICH IS LIKELY TO CAUSE RUNOFF PRIOR TO DISTURBED OR EXPOSED AREAS BEING STABILISED, A COMBINATION OF MULCH, BINDER OR BIDUM IS TO BE USED TO COVER EXPOSED AREAS. INSTALLATION OF TEMPORARY EROSION CONTROL TO ACTIVE OR INACTIVE WORK AREAS, PRIOR TO RAINFALL EVENTS UNTIL FINAL DESIGN TREATMENT (STABILISATION PER DRAWING C701) IS CRITICAL GIVEN INABILITY TO INSTALL TYPE 1 CONTROLS.

STEP 4
ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MONITORED UNTIL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AS REQUIRED BY THE SUPERINTENDENT.

NOTES

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. ALL CLEAN AND DIRTY WATER CATCH DRAINS ARE TO HAVE ROCK CHECK DAMS PLACED IN ACCORDANCE WITH IECA STD DWG RCD-01.
4. CONTRACTOR TO ENSURE STORMWATER DRAINAGE IS COVERED AT ALL TIMES DURING EARTHWORKS PHASE.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

TERRY CLARK (CPESC 6089)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL LAYOUT - EARTHWORKS PHASE

JOB CODE MIR009-01
SHEET NUMBER C700
REV B

NOTE

CONTRACTOR TO ENSURE THAT ALL DISTURBED AREAS ARE REINSTATED WITH 50mm TOPSOIL AND DRILL SEEDING AND HYDROMULCH SPRAY ESPECIALLY ON AREAS ADJACENT PRECINCT 9.1 DISTURBED AREA.

NOTE

STABILISATION MEASURES TO BE APPLIED WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C710). IF A DELAY IN APPLICATION OR INSTALLATION WILL OCCUR THEN TEMPORARY EROSION CONTROL (MULCH, BINDER OR BIDUM) MUST BE UTILISED TO EFFECTIVELY STABILISE ALL EXPOSED OR DISTURBED AREAS UNTIL FINAL TREATMENT IS APPLIED.

LEGEND - PROPOSED

- PROPOSED STORMWATER
- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING. HYDROMULCH TO BE SPRAYED IMMEDIATELY AFTER.
- 100mm THICK TOPSOIL AND TURF
- 50mm THICK TOPSOIL DRILL SEEDING. HYDROMULCH TO BE SPRAYED IMMEDIATELY AFTER.
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING DIRTY WATER DIVERSION BUND.
- VEGETATION CLEARING EXTENT

SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE

STEP 6
- PRIORITY SHOULD BE GIVEN TO PLACEMENT OF GRAVELS WITHIN ROAD AS A MEANS TO REDUCE EROSION RISK
- PAVEMENT CONSTRUCTION
- MAINTAIN SILT FENCES, AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION
- GULLY INLET CONTROLS TO BE REINSTATED DURING PAVEMENT AND STORMWATER CONSTRUCTION AND MAINTAINED UNTIL ENTIRE UPSLOPE CATCHMENT HAS BEEN STABILISED.

STEP 7
- MAINTENANCE PERIOD
- MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.

STEP 8
- REMOVE CONSTRUCTION ENTRANCES.

ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

NOTES

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. CONTRACTOR TO ENSURE THAT GRASS SEEDED AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
4. FOR STABILISATION MEASURES OF FUTURE PRECINCTS, REFER TO MIR012-01 - C730 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE.

TURFING AND TOPSOIL NOTE

CONTRACTOR SHALL RESPREAD AMELIORATED TOPSOIL (AMELIORATION REQUIREMENTS AS DIRECTED BY SUPERINTENDENT) TO VERGES AT A THICKNESS OF 100mm. TURFING TO VERGES WITHIN PRECINCT 12.3 WORKS SHALL BE UNDERTAKEN BY THE CIVIL CONTRACTOR.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

TERRY CLARK (CPESC 6089)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	KK	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED A LANGDON
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE: MIR009-01
SHEET NUMBER: C701
REV: B

EROSION & SEDIMENT CONTROL NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
3. ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.
4. EVERY PRECAUTION IS TO BE TAKEN TO PREVENT THE TRANSPORT OF SILT INTO THE NEWLY LAID STORMWATER PIPES THAT ARE CONNECTED TO THE DOWNSTREAM PIPE SYSTEMS, AND ANY EXISTING OPEN CHANNELS.
5. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
6. THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.
7. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:

- ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON EROSIVE FLOW VELOCITIES;
- MINIMISE SOIL EROSION FROM WATER AND WIND;
- MINIMISE ADVERSE EFFECTS OF SEDIMENT RUN-OFF;
- MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGES FROM THE SITE (E.G. THE EFFECTS OF SEDIMENTATION ON THE ENVIRONMENTAL VALUES OF RECEIVING WATERS); AND
- ENSURE THAT THE VALUE AND USE OF RESIDENTIAL PROPERTIES ADJACENT TO THE DEVELOPMENT (SUCH AS DRAINAGE AND ROADS) ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.

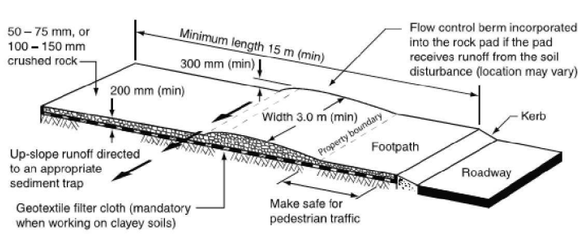
4. THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
5. ALL ESC MEASURES SHALL BE INSPECTED:

- AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE).
- AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE).
- WITHIN 24 HOURS OF EXPECTED RAINFALL.
- WITHIN 18 HOURS OF RAINFALL OCCURRING.

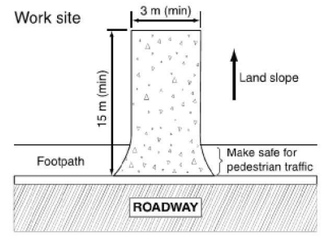
6. MAINTENANCE OF ESC MEASURES SHALL OCCUR TO ENSURE THEY ARE OPERATING EFFICIENTLY AND IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

ESC MEASURES	MAINTENANCE TRIGGER	TIME FRAME FOR UNDERTAKING MAINTENANCE
ESC MEASURES	WHEN SETTLED SEDIMENT VOLUME EXCEEDS 25% OF THE CAPACITY OF THE ESC MEASURE	BY THE END OF THE DAY

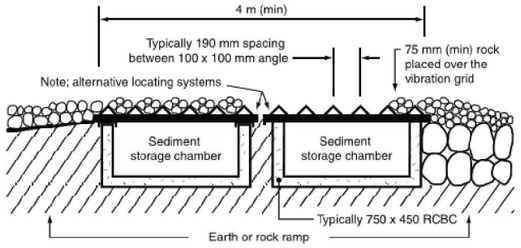
7. INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
8. STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
9. STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
10. ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS, INCLUDING (BUT NOT LIMITED TO) TIE WIRE, STAKES, FILTER CLOTH, WIRE MESH AND CLEAN GRAVEL SHOULD BE AVAILABLE ON-SITE.
11. ESC MAINTENANCE ACTIVITIES ARE TO BE RECORDED IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE WORKS AND IS TO BE MADE AVAILABLE TO THE SUPERINTENDENT.
12. DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.
13. SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.



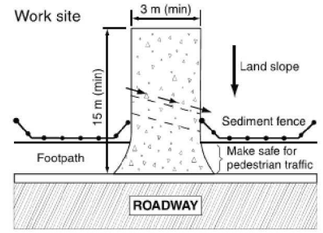
(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)



(b) Rock pad sloping away from road



(c) Alternative low maintenance arrangement (still under development)



(d) Rock pad sloping towards the road

EROSION RISK RATING

BASED ON AVERAGE MONTHLY RAINFALL (SOURCE TABLE 4.4.2 IECA 2008)

MONTHLY DATA	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
MEAN RAINFALL	101.00	79.50	130.90	535.50	33.50	67.80	19.80	24.50	23.40	35.80	109.10	75.500
EROSION RISK	HIGH	MODERATE	HIGH	MODERATE	LOW	MODERATE	VERY LOW	VERY LOW	VERY LOW	LOW	HIGH	MODERATE

	VERY LOW RISK: 0 TO 30mm
	LOW RISK: 30+ TO 45mm
	MODERATE RISK: 45+ TO 100mm
	HIGH RISK: 100+ TO 225mm
	EXTREME RISK: >225mm

EROSION RISK RATING

APPLICABLE MONTH	EROSION RISK RATING	ADVANCE LAND CLEARING ALLOWED (WEEKS WORK)	MAX DAYS TO STABILISATION	STAGED CONSTRUCTION AND STABILISATION OF EARTH BATTERS > 6H : 1V	STOCKPILES STABILISED
	VERY LOW	8	30 (60%)		
OCTOBER	LOW	8	30 (70%)		
	MODERATE	6	20 (70%)	X	
NOVEMBER	HIGH	4	10 (75%)	X	X
	EXTREME	2	10 (80%)	X	X

NOTE:

FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWINGS C210.

CONSTRUCTION ENTRANCE DETAIL

MATERIALS

COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.

(i) WELL-DECOMPOSED 100% ORGANIC MATTER PRODUCED BY CONTROLLED AEROBIC (BIOLOGICAL) DECOMPOSITION.

(ii) MAXIMUM OF 1% OF INERT MATERIAL.

(iii) MAXIMUM SOLUBLE SALT CONCENTRATION OF 5dS/m, AND pH RANGE OF 5.0 TO 8.5.

(iv) MOISTURE CONTENT OF 30 TO 50% PRIOR TO APPLICATION.

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND EXTENT. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, MATERIAL TYPE, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. WHEN SELECTING THE LOCATION OF A COMPOST FILTER BERM, TO THE MAXIMUM DEGREE PRACTICABLE, ENSURE THE BERM IS LOCATED:

(i) TOTALLY WITHIN THE PROPERTY BOUNDARIES;

(ii) ALONG A LINE OF CONSTANT ELEVATION (PREFERRED, BUT NOT ALWAYS PRACTICAL);

(iii) AT LEAST 1m, IDEALLY 3m, FROM THE TOE OF A FILL EMBANKMENT;

(iv) AWAY FROM AREAS OF CONCENTRATED FLOW.

3. ENSURE THE BERM IS INSTALLED IN A MANNER THAT AVOIDS THE CONCENTRATION OF FLOW ALONG THE BERM, OR THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE BERM.

4. ENSURE THE BERM HAS BEEN PLACED ALONG THE CONTOUR SUCH THAT WATER WILL POND EVENLY ALONG THE LENGTH OF THE BERM.

5. ENSURE BOTH ENDS OF THE BERM ARE ADEQUATELY TURNED UP THE SLOPE TO PREVENT FLOW BYPASSING PRIOR TO WATER PASSING OVER THE BERM.

6. ENSURE 100% CONTACT WITH THE SOIL SURFACE.

7. WHERE SPECIFIED, TAKE APPROPRIATE STEPS TO VEGETATE THE BERM.

MAINTENANCE

1. DURING THE CONSTRUCTION PERIOD, INSPECT THE BERM AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.

2. REPAIR OR REPLACE ANY DAMAGED SECTIONS.

3. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.

4. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 100mm OR 1/3 THE HEIGHT OF THE BERM.

5. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL (IF REQUIRED)

1. WHEN DISTURBED AREAS UP-SLOPE OF THE BERM ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE BERM MAYBE REMOVED.

2. REMOVE ANY COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

3. REHABILITATE/REVEGETATE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.

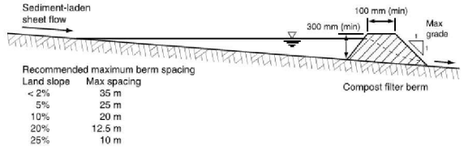


Figure 1 - Typical profile of a compost filter berm

MULCH BUND DETAIL

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

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PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2

JOB CODE: MIR009-01
SHEET NUMBER: C710
REV: B

ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	• OVERALL RESPONSIBILITY OF ESC IMPLEMENTATION • NOTIFY THE ENVIRONMENTAL MANAGER IMMEDIATELY OF ANY NON-COMPLIANCE WITH ESCP • ENSURE THE PROMPT IMPLEMENTATION OF MEASURES TO MITIGATE EROSION AND SEDIMENT GENERATION
SITE SUPERVISOR / FOREMEN	• MONITOR DAILY RAINFALL • NOTIFY ENVIRONMENTAL ADVISOR/CONSULTANT WHEN RUNOFF GENERATING RAINFALL OCCURS IN THE PREVIOUS 24 HOURS • MAINTAIN CURRENT RECORDS OF RAINFALL, STORAGE VOLUMES, WATER QUALITY, TREATMENT PRACTICES, DISCHARGE VOLUMES (AS APPROPRIATE) • INSTALLATION AND MAINTENANCE OF ESC
ENVIRONMENTAL MANAGER	• PROVIDE DESIGN INFORMATION AS REQUIRED • CONDUCT IN-SITU MONITORING (AS REQUIRED) • COLLECT AND SUBMIT SAMPLES TO LABORATORY (AS REQUIRED) • COLLATE RESULTS AND PREPARE REPORTS (AS REQUIRED) • CONDUCT SITE INSPECTIONS AN AUDITS (AS REQUIRED) • INSPECT ESC INSTALLATION AND MAINTENANCE • INSPECT OFFSITE IMPACTS AND MANAGEMENT • PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)
ALL PERSONNEL	• REPORT ANY DAMAGE TO ESC DEVICES AND ANY POTENTIAL OR ACTUAL ENVIRONMENTAL HARM IN LINE WITH DUTY TO NOTIFY UNDER THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION ACT 1994

CORRECTIVE AND PREVENTATIVE ACTION

AN ENVIRONMENTAL INCIDENT WITH RESPECT TO THE ESCP IS DEFINED AS ANY OCCURRENCE WHERE SEDIMENT IS RELEASED FROM THE SITE, WHETHER CONTROLLED OR UNCONTROLLED, OR WHERE STORM WATER IS RELEASED (CONTROLLED) FROM SITE WHICH DOES NOT MEET THE WATER QUALITY REQUIREMENTS.

ALL INCIDENTS AND NON-CONFORMANCES ARE TO BE REPORTED, INVESTIGATED AND CORRECTED IN ACCORDANCE WITH THE ESCP TO ENSURE EFFECTIVE SOIL AND WATER QUALITY MANAGEMENT PRACTICES AT ALL TIMES.

BEST PRACTICE SITE MANAGEMENT REQUIRES ALL ESC MEASURES TO BE INSPECTED BY THE CONTRACTORS NOMINATED REPRESENTATIVE AT LEAST DAILY WHEN RAIN IS OCCURRING, WITHIN 24 HOURS PRIOR TO EXPECTED RAINFALL, AND WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE ONSITE RUNOFF (IECA, 2008). SUCH INSPECTIONS MUST CHECK:

- DAILY SITE INSPECTIONS (DURING PERIODS OF RUNOFF PRODUCING RAINFALL)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - ALL SITE DISCHARGE POINTS (INCLUDING DEWATERING ACTIVITIES AS APPROPRIATE)
- WEEKLY SITE INSPECTIONS (EVEN IF WORK IS NOT OCCURRING ON-SITE)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.
  - LITTER AND WASTE RECEPTORS
  - OIL, FUEL AND CHEMICALS STORAGE FACILITIES
- PRIOR TO ANTICIPATED RUNOFF PRODUCING RAINFALL
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - ALL TEMPORARY FLOW DIVERSION AND DRAINAGE WORKS
- FOLLOWING RUNOFF PRODUCING RAINFALL
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FORM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.

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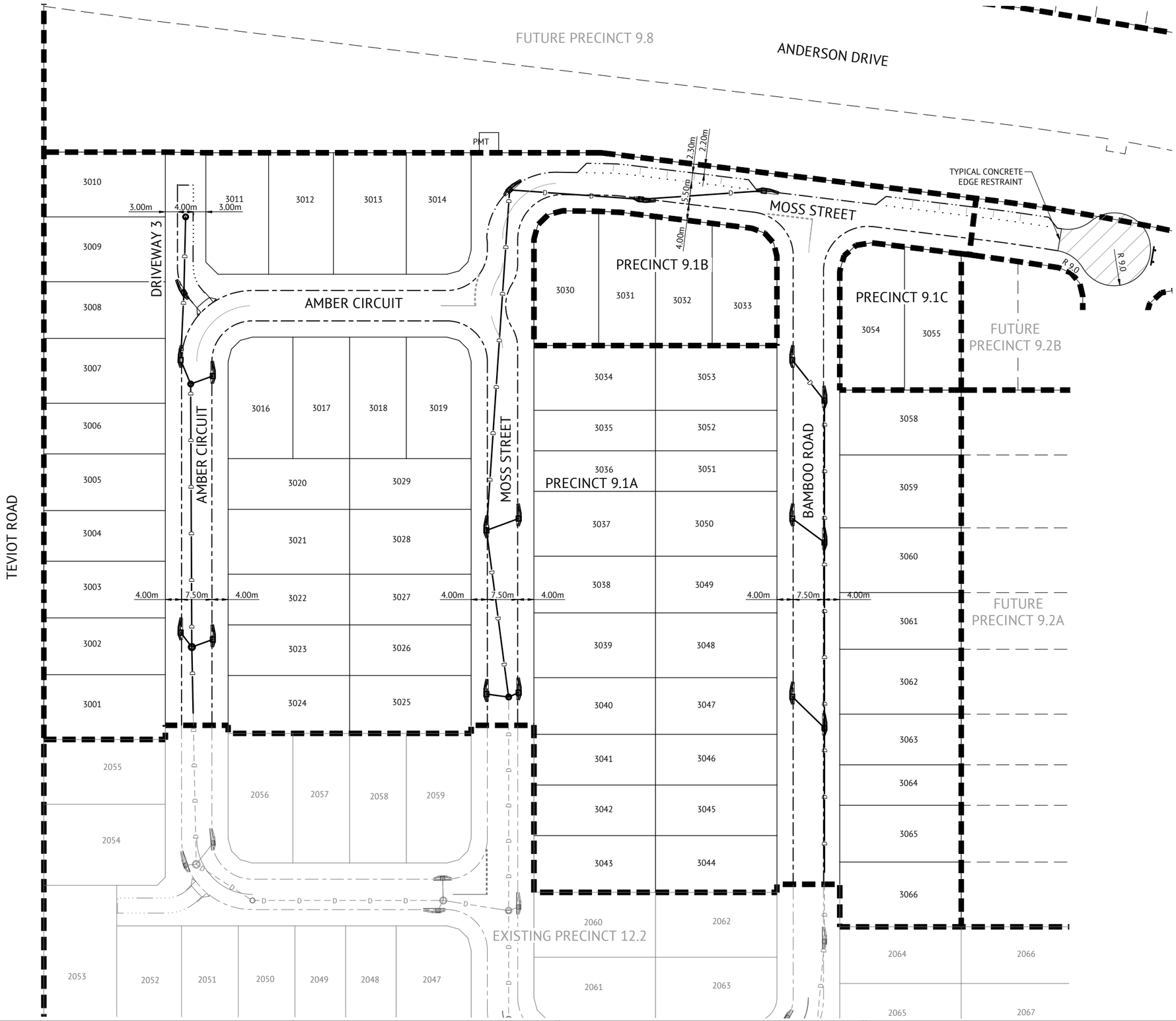
SCALE
ORIGINAL SHEET SIZE A1

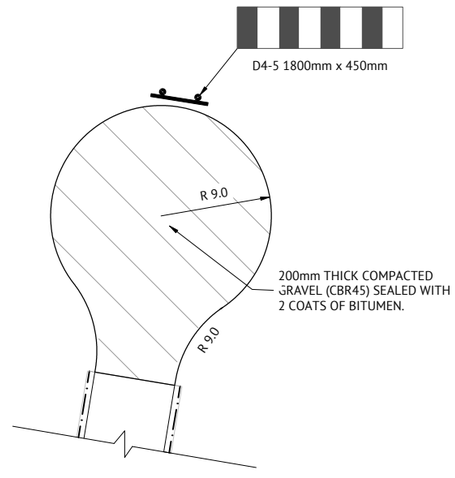
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2

JOB CODE MIR009-01
SHEET NUMBER C711
REV B



NOTE

CONTRACTOR TO ENSURE THAT THE SURFACE WATER IN TURNAROUND IS DIRECTED TO KERB AND CHANNEL AND OVERLAND FLOW PATHS ARE CONSIDERED. CONTRACTOR TO NOTIFY SUPERINTENDENT SHOULD THIS CRITERIA NOT BE MET.



TYPICAL TEMPORARY TURN AROUND DETAIL

SCALE: 1:250

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Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

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PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 10 20 30m
SCALE 1:500 (A1)
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC GROUP
PROJECT: EVERLEIGH PRECINCT 9.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: TEMPORARY WORKS - ROADWORKS AND DRAINAGE

JOB CODE: MIR009-01
SHEET NUMBER: C900
REV: B