

EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD

SHEET LIST TABLE	
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C003	OVERALL SERVICES LAYOUT
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C101	ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2
C200	BULK EARTHWORKS LAYOUT PLAN - SHEET 1
C201	BULK EARTHWORKS LAYOUT PLAN - SHEET 2
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1
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C713	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C714	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

GENERAL NOTES

- ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
- ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
- 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.
- 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.
- CONSTRUCTION CERTIFICATION REQUIREMENTS SUCH AS PAVEMENT PROOF ROLLS ETC. ARE TO BE AS PER THE LOGAN CITY COUNCIL SPECIFICATION.
- THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
- THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.
- 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

- 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

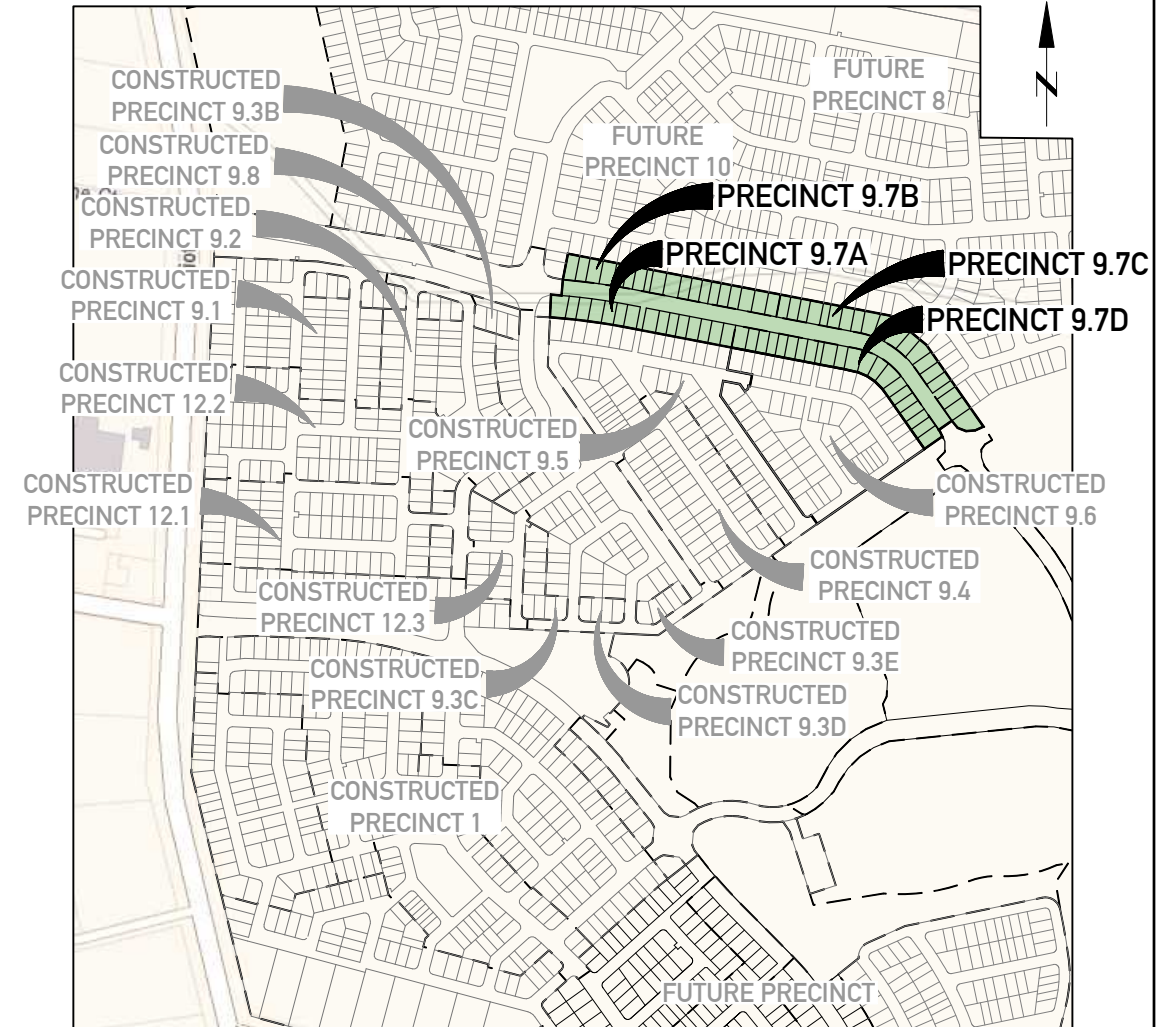
- NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE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

WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

- 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.
- THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).



LOCALITY PLAN
Scale 1:5000



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REV	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

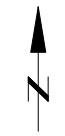
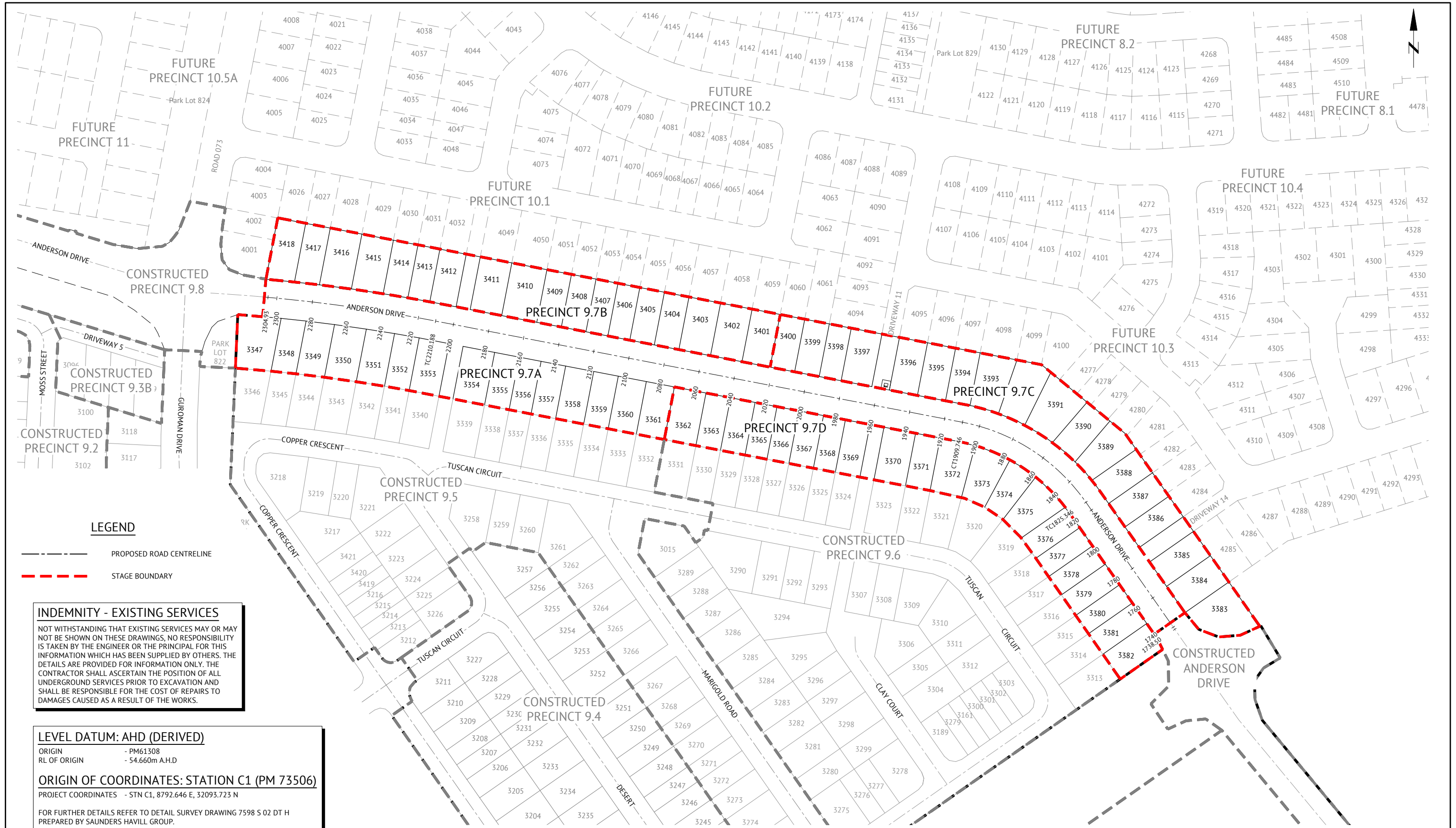


BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG	SCALE 0 100 200 300m SCALE 1:5000 (A1)
CHECKED ANDREW LANGDON	CLIENT MIRVAC QLD PTY LTD
PROJECT MANAGER NICK SOMERVILLE	PROJECT EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
PROJECT DIRECTOR PATRICK BRADY	LOCATION TEVIOT ROAD, GREENBANK
	SHEET TITLE COVER SHEET

JOB CODE MIR-0907
SHEET NUMBER C001
REV B

ORIGINAL SHEET SIZE A1



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

47,335m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

LAYOUT PLAN

SCALE 1:1000

FOR CONSTRUCTION

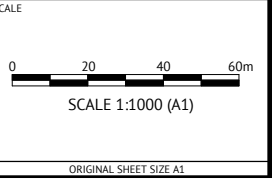
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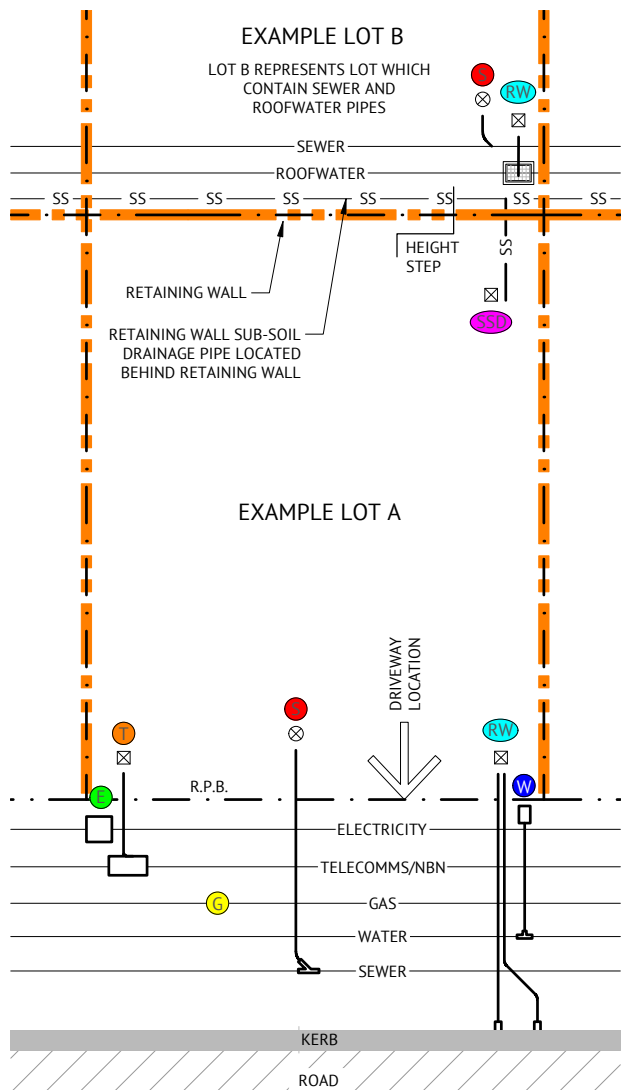
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ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112



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SURVEY SETOUT PLAN

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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

LAYOUT PLAN
SCALE 1:1000

LEGEND - PROPOSED

- SW — STORMWATER
- S — GRAVITY SEWER
- W — WATER
- E — ELECTRICAL

LEGEND - CONSTRUCTED

- - - SW - - - STORMWATER
- - - S - - - GRAVITY SEWER
- - - W - - - WATER
- - - E - - - ELECTRICAL

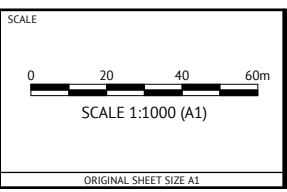
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DESIGN HAZARD NOTES:

- 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.
- THIS REPORT SUMMARISES AN INTERNAL REVIEW OF PREMISE'S DETAILED DESIGN DRAWINGS FOR DESIGN SAFETY.
- 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.
- 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.
- 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. PERMANENT INJURY TO PERSON ONSITE.	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:

- 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.
- 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 <u>IS</u> EXPECTED TO OCCUR IN MOST CERTAIN CIRCUMSTANCES	MORE THAN ONCE PER YEAR
B - LIKELY	THE EVENT <u>WILL</u> PROBABLY OCCUR IN MOST CIRCUMSTANCES	AT LEAST ONCE IN 5 YEARS
C - POSSIBLE	THE EVEN T <u>SHOULD</u> OCCUR AT SOME TIME	AT LEAST ONCE IN 10 YEARS
D - UNLIKELY	THE EVENT <u>COULD</u> OCCUR AT SOME TIME	AT LEAST ONCE IN 30 YEARS
E - RARE	THE EVENT <u>MAY</u> 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 SWEEP 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

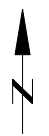
CONSTRUCTION HAZARD SCHEDULE		
ITEM	POTENTIAL HAZARD	POSSIBLE PREVENTATIVE ACTION
C1	DEEP EXCAVATION HAZARD	ALL STEPS MUST BE TAKEN TO OBTAIN CURRENT UNDERGROUND SERVICES INFORMATION BEFORE EXCAVATION WORKS COMMENCE. EXCAVATION WORK MUST BE UNDERTAKEN BY APPROPRIATELY EXPERIENCED AND QUALIFIED PERSONNEL. 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.

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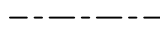
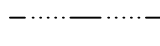
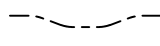
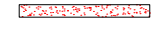

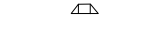
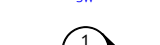
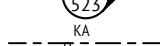
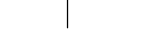



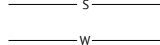
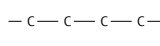
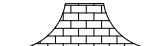





DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

SCALE	CLIENT MIRVAC QLD PTY LTD	JOB CODE MIR-0907
PROJECT EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT	LOCATION TEVIOT ROAD, GREENBANK	SHEET NUMBER C004
SHEET TITLE SAFETY IN DESIGN		REV B



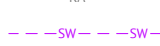
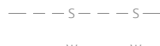

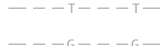

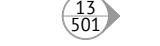




LAYOUT PLAN
SCALE 1:500

LEGEND - PROPOSED

-  PAVEMENT
-  PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
-  PROPOSED GREEN BUILDOUTS
-  PROPOSED 1.50m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
-  PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
-  PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
-  PROPOSED STORMWATER
-  PROPOSED STORMWATER STRUCTURE No.
-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  PROPOSED CONCRETE SLEEPER RETAINING WALL
-  PROPOSED CONCRETE PANEL RETAINING WALL
-  ZERO LOT BOUNDARY
-  PROPOSED FUTURE DRIVEWAY LOCATION
-  PROPOSED SEWER
-  PROPOSED WATER
-  PROPOSED WATER CONDUIT
-  DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
-  PROPOSED LANDSCAPING WITHIN ROAD RESERVE. 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.
-  TREES
-  PADMOUNT TRANSFORMER

LEGEND - CONSTRUCTED

-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  STORMWATER
-  SEWER
-  WATER
-  ELECTRICAL
-  TELSTRA
-  GAS
-  RETAINING WALL
-  STORMWATER STRUCTURE No.

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.

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. C420 - STORMWATER DRAINAGE DETAILS AND NOTES.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION		KK	PB
18/10/2022	A	ISSUED FOR APPROVAL		KK	PB

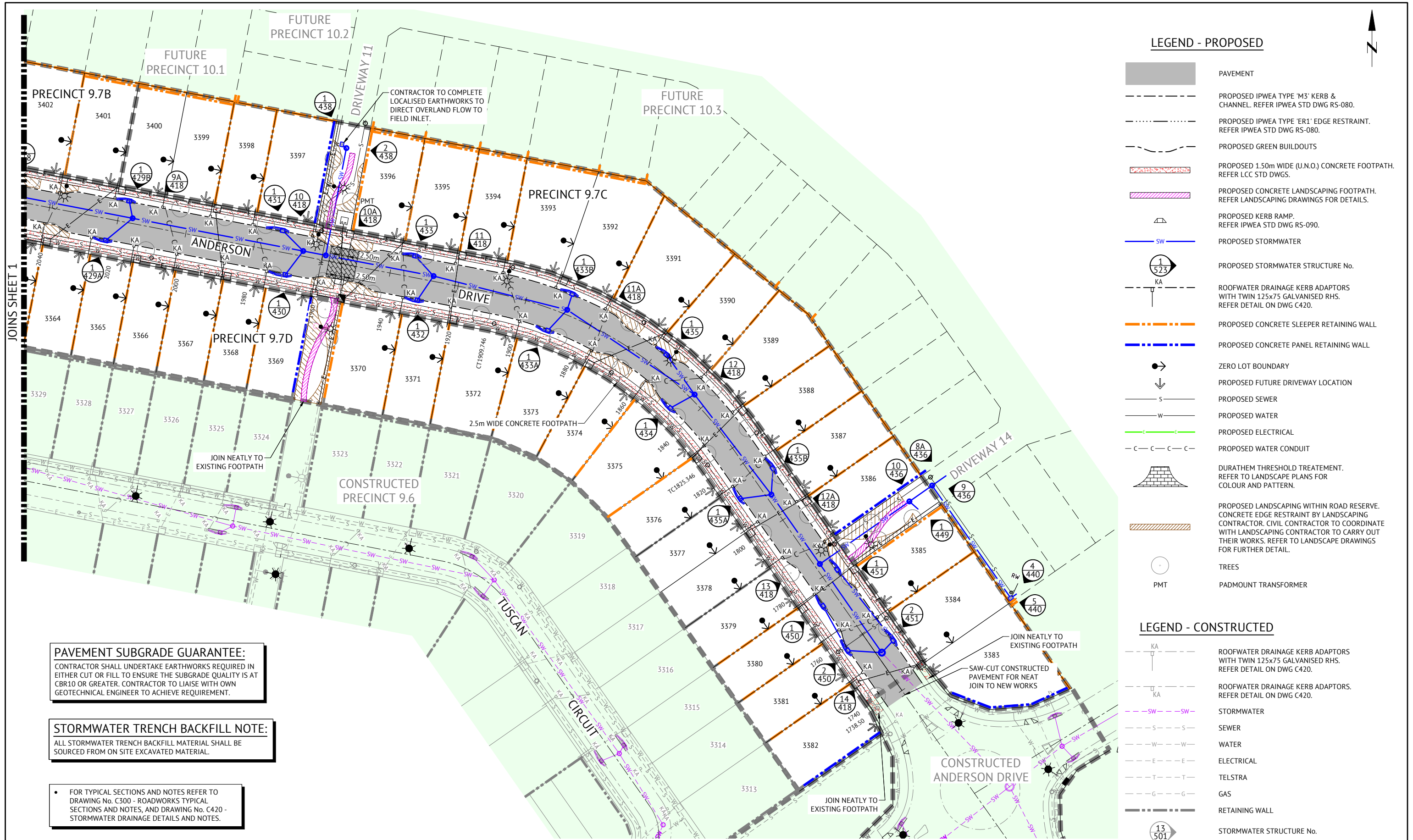
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
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 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1

JOB CODE
MIR-0907
SHEET NUMBER
C100
REV
B



LEGEND - PROPOSED

- PAVEMENT
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED GREEN BUILDOUTS
- PROPOSED 1.50m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
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- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED ELECTRICAL
- PROPOSED WATER CONDUIT
- DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- PROPOSED LANDSCAPING WITHIN ROAD RESERVE. 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.
- TREES
- PADMOUNT TRANSFORMER

LEGEND - CONSTRUCTED

- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- STORMWATER
- SEWER
- WATER
- ELECTRICAL
- TELSTRA
- GAS
- RETAINING WALL
- STORMWATER STRUCTURE No.

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LAYOUT PLAN
 SCALE 1:500

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK PB
18/10/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

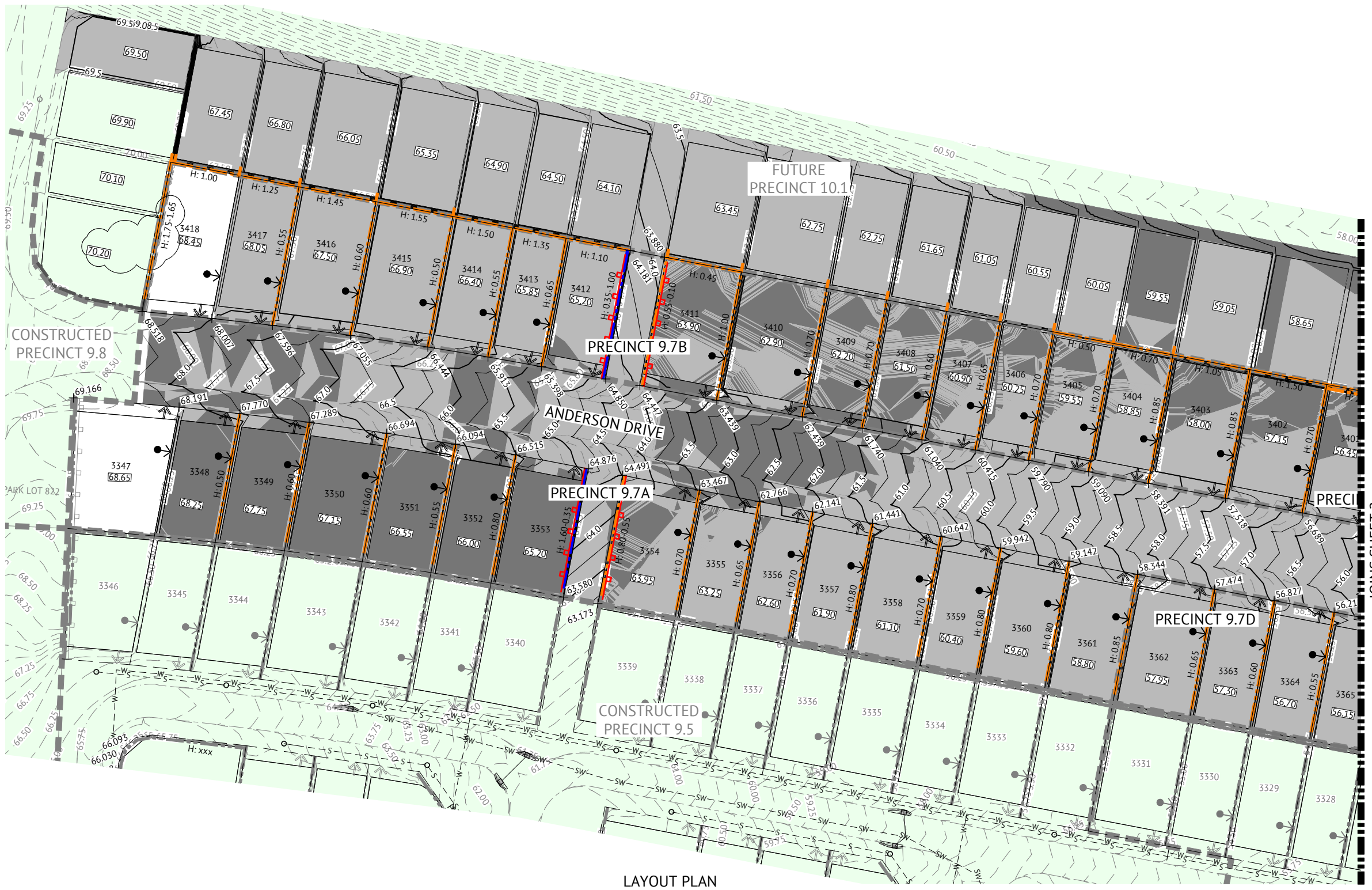
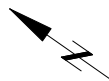
Premise
 BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 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 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

JOB CODE
 MIR-0907
 SHEET NUMBER
 C101
 REV
 B



LAYOUT PLAN
SCALE 1:500

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)
- FINISHED SURFACE LEVEL
- PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- SPOT LEVEL
- ZERO LOT LINE
- DRIVEWAY LOCATION
- STAGE BOUNDARY
- PADMOUNT TRANSFORMER

LEGEND - EXISTING

- EXISTING RETAINING WALL
- EXISTING CONTOURS (0.50m)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER

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.
5. CUT AND FILL HATCHES DERIVED FROM PRECINCT 9.3 BULK EARTHWORKS TO PRECINCT 9.7 FINISHED SURFACE.

FOR CONSTRUCTION

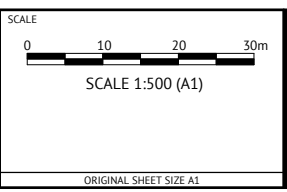
DATE	REV	DESCRIPTION	REVISIONS	KK	PB
08/06/2023	B	AMENDED PAD LEVEL AND RETAINING WALL HEIGHTS		KK	PB
18/10/2022	A	ISSUED FOR APPROVAL		KK	PB



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

DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112



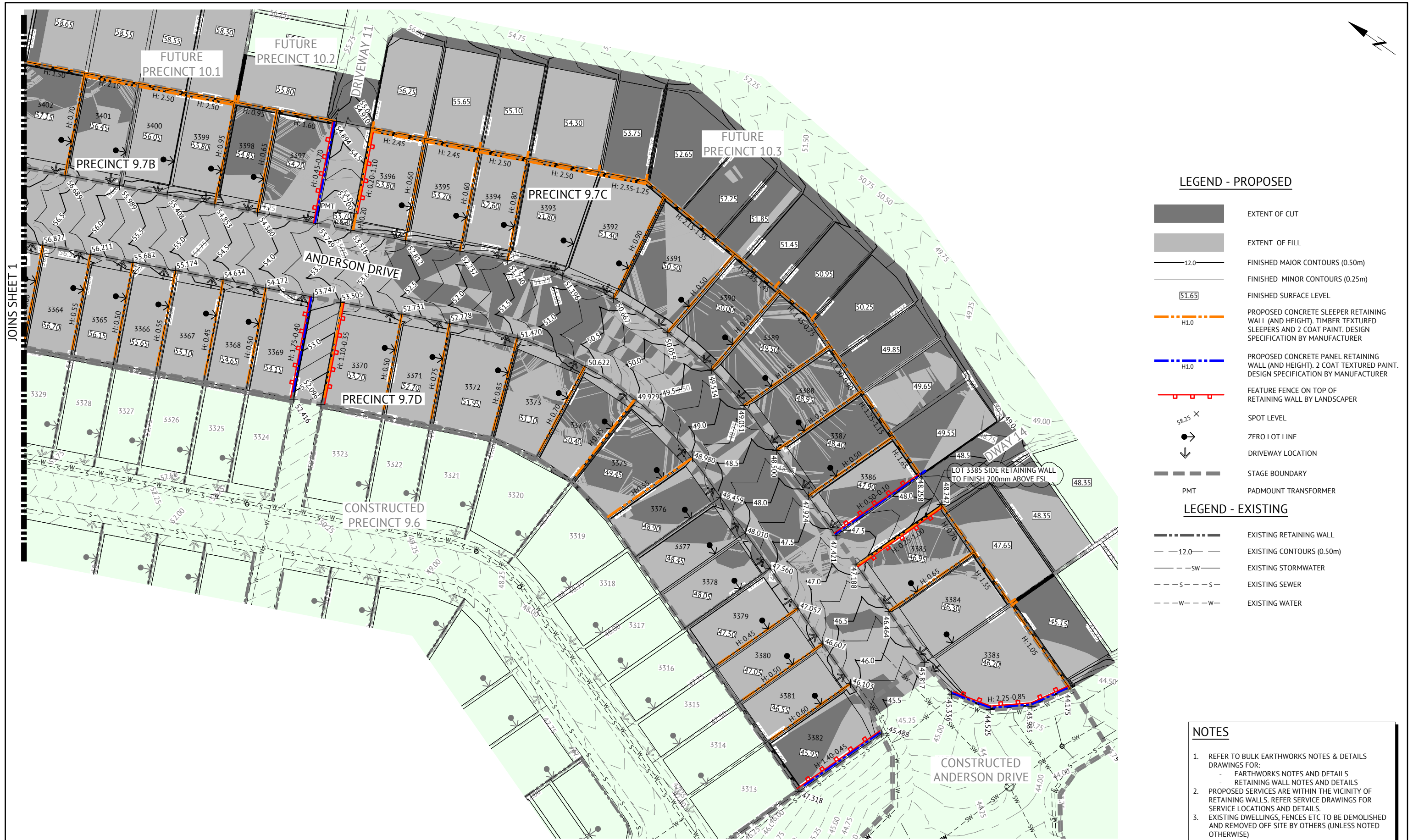
CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - SHEET 1

JOB CODE		MIR-0907	
SHEET NUMBER	REV	C200	B



- LEGEND - PROPOSED**
- EXTENT OF CUT
 - EXTENT OF FILL
 - FINISHED MAJOR CONTOURS (0.50m)
 - FINISHED MINOR CONTOURS (0.25m)
 - 51.65 FINISHED SURFACE LEVEL
 - PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
 - PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
 - FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
 - SPOT LEVEL
 - ZERO LOT LINE
 - DRIVEWAY LOCATION
 - STAGE BOUNDARY
 - PMT PADMOUNT TRANSFORMER
- LEGEND - EXISTING**
- EXISTING RETAINING WALL
 - EXISTING CONTOURS (0.50m)
 - EXISTING STORMWATER
 - EXISTING SEWER
 - EXISTING WATER

- 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.
 5. CUT AND FILL HATCHES DERIVED FROM PRECINCT 9.3 BULK EARTHWORKS TO PRECINCT 9.7 FINISHED SURFACE.

LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION - ADDED LOT 3385 RETAINING WALL NOTE		KK	PB
18/10/2022	A	ISSUED FOR APPROVAL		KK	PB

Premise

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

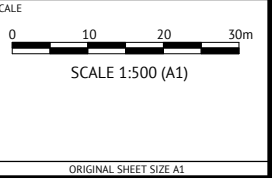
DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - SHEET 2

JOB CODE
MIR-0907

SHEET NUMBER	REV
C201	B

NOTES

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

TESTING

- 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

- 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	

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

DUST

- 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 MODELLING AND ASSESSMENT OF AIR POLLUTANTS IN NSW.'
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

FILL MANAGEMENT

- 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.
- THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
- ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
- 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.
- 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.
- 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.
- 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.
- NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
- WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
- 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.
- 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

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

DISPERSIVE SOILS MANAGEMENT NOTES

- 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
- 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.
- CONTRACTOR MUST CONSTRUCT AND ESTABLISH THE EROSION AND SEDIMENT CONTROL DEVICES, CONSTRUCTION WATER HOLDING DAM AND HES BASIN PRIOR TO COMMENCING EARTHWORKS OPERATION.
- 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/m³ OF TOPSOIL)
- DOLOMITE (15kg/m³ OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m³ OF TOPSOIL)
- FERTILISER (0.4kg/m³ OF TOPSOIL)

B-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- DOLOMITE (15kg/m³ OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m³ OF TOPSOIL)
- FERTILISER (0.4kg/m³ 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:

- OMC - OPTIMUM MOISTURE CONTENT
- LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL.
- 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.
- UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.
- 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.
- 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

- DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS
- FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m
- CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS
- BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT
- 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
- CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
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BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY

SCALE

ORIGINAL SHEET SIZE A1

CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

BULK EARTHWORKS NOTES AND DETAILS - SHEET 1

JOB CODE

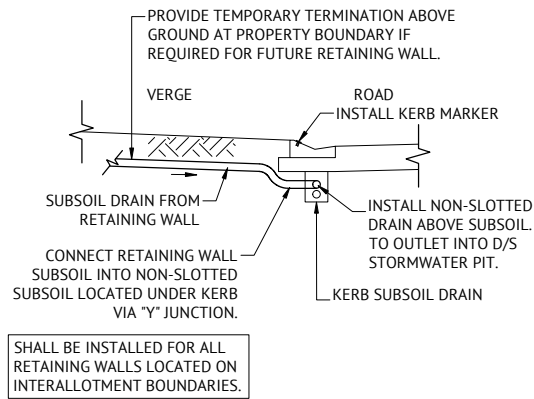
MIR-0907

SHEET NUMBER

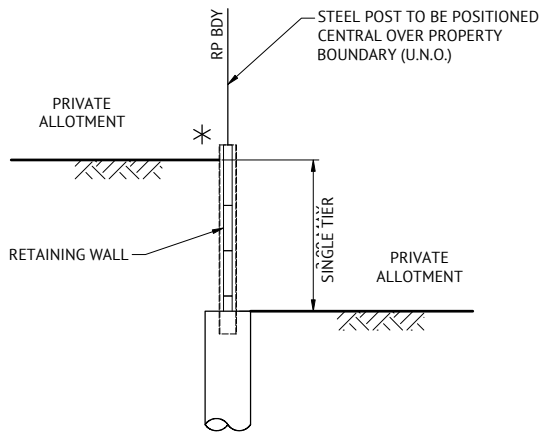
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REV

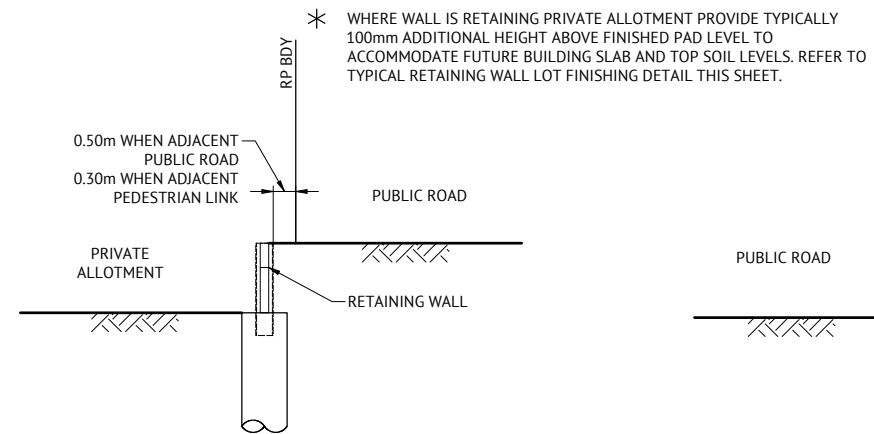
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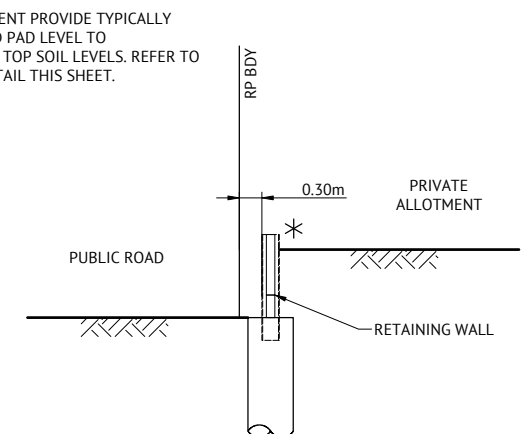
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD
N.T.S.



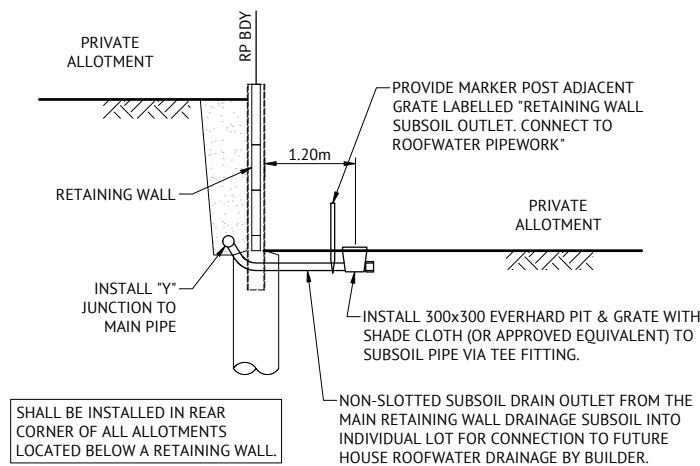
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
0.4m-2m MAX HIGH
N.T.S.



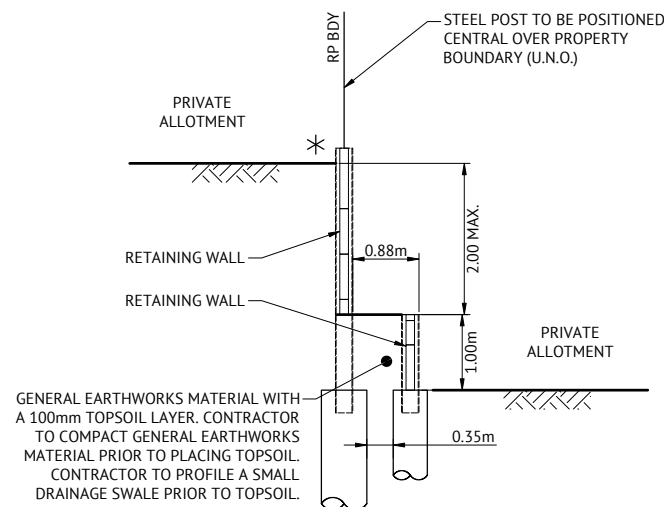
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER
N.T.S.



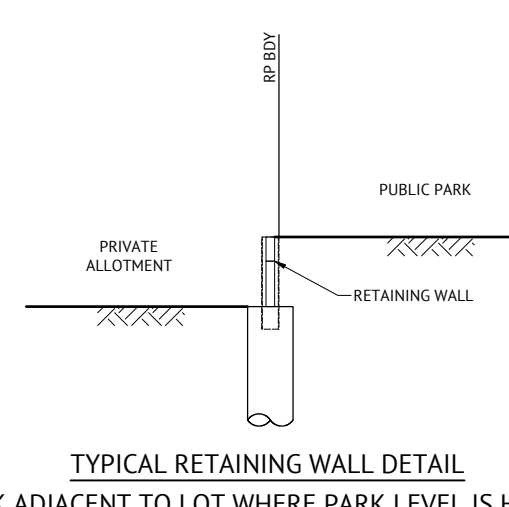
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



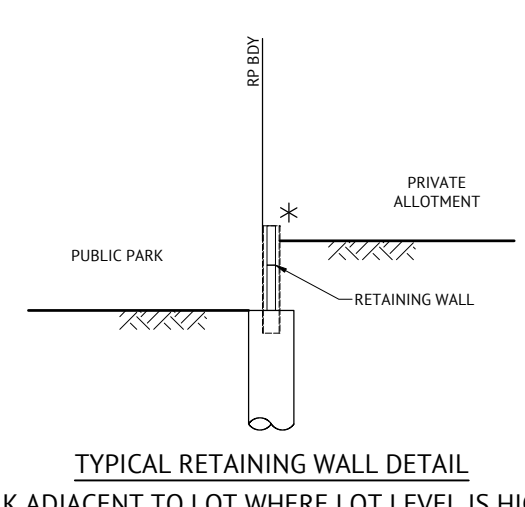
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS
N.T.S.



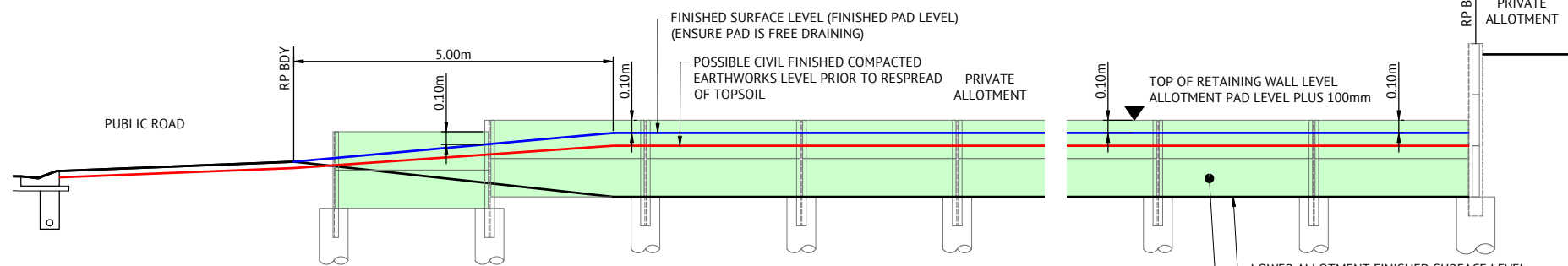
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
2m-3m MAX HIGH
N.T.S.



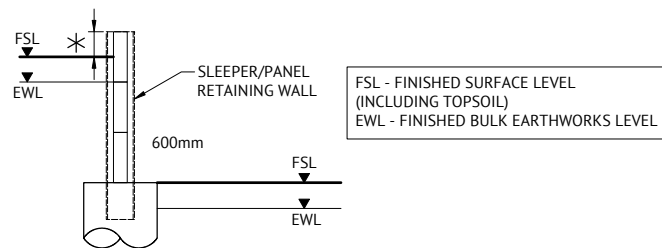
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER
N.T.S.



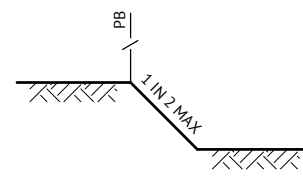
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL SETOUT AND END DETAIL
N.T.S.



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 ENCOACH 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 REQUIREMENT 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				
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08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

Premise

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

DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE
NTS

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

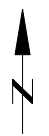
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS - SHEET 2




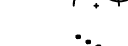

JOB CODE
MIR-0907

SHEET NUMBER
C211

REV
B



LEGEND - PROPOSED

-  EXTENT OF CUT
 -  EXTENT OF FILL
 -  TREES
 -  BOLLARD
 -  STREET TREE / PLANTING AREA.
- CONTRACTOR TO ENSURE AREA IS FREE OF ROCK UP TO A DEPTH OF 1.5M BELOW DESIGN FSL (I.E. ENSURE AREA IS EASY DIGGING FOR THE INSTALLATION OF TREES AND PLANTING). CONTRACTOR TO ALSO ENSURE THESE AREAS ARE CONNECTED INTO THE NEAREST STORMWATER STRUCTURE AND MADE FREE DRAINING VIA SLOTTED AGI PIPE.

ALLOTMENT PREPARATION REQUIREMENT:
 CONTRACTOR SHALL ENSURE THAT ALL ALLOTMENTS WHERE LOCATED IN CUT WITHIN ROCK, SHALL BE OVER-EXCAVATED A MINIMUM 500mm DEPTH BELOW DESIGN EARTHWORKS LEVEL AND RECOMPACTED TO LEVEL ONE CERTIFICATION.





LAYOUT PLAN
 SCALE 1:750

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK PB
18/10/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

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

DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:750(A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS

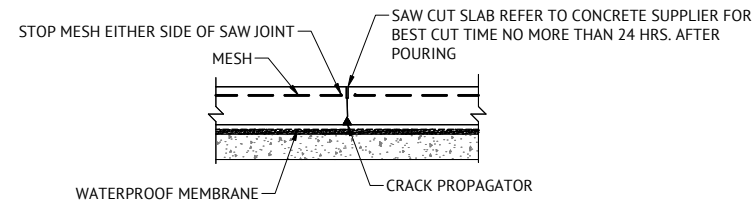
JOB CODE
MIR-0907
 SHEET NUMBER
C220
 REV
B

NOTES

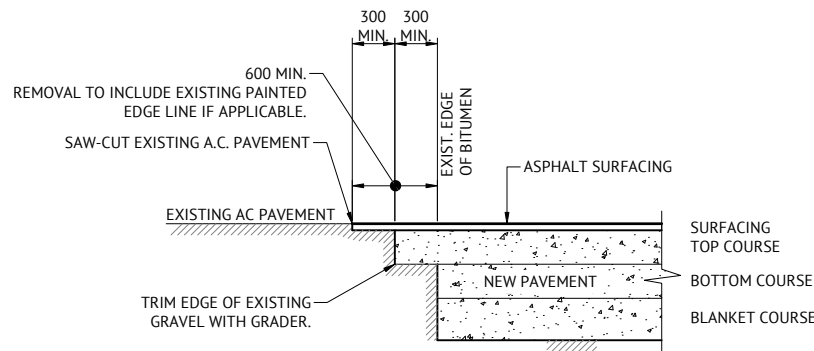
1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
2. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED 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.

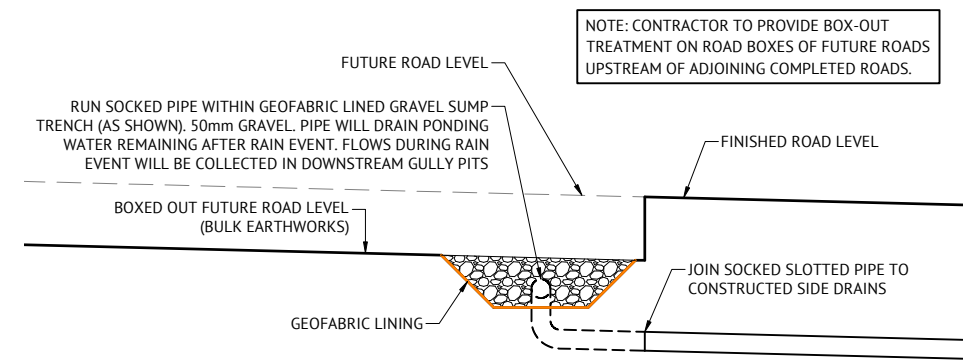


SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S



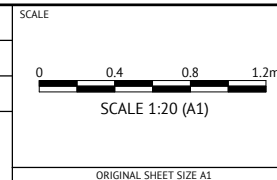
TYPICAL FUTURE ROADS BOX-OUT TREATMENT

FOR CONSTRUCTION



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

DESIGNED
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PfB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
ROADWORKS NOTES AND DETAILS

JOB CODE
MIR-0907
 SHEET NUMBER
C300
 REV
B

DATE	REV	DESCRIPTION	REC	APP
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PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- ANDERSON DRIVE (CH.1738.50-CH.2304.93)
CLASS	- NEIGHBOURHOOD CONNECTOR 1
ESA's	- 6.40 x 10 ⁶
SURFACE	- 50mm AC of 14mm MIX
PRIMER TYPE	- PRIMER SEAL
CBR 80	- 300mm
CBR 45	- 100mm
TOTAL BOX	- 450mm

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.

Horiz Curve Data

Vertical Geometry Grade (%)
Vertical Grade Length (m)

Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.38.0

CHAINAGE	NATURAL SURFACE	DESIGN SURFACE	RHS LIP LEVEL	LHS LIP LEVEL	CUT (-)/FILL DEPTH
1738.50	44.211	45.568	45.425	45.425	-1.357
1740.00	44.310	45.622	45.479	45.479	-1.312
1760.00	46.079	46.341	46.198	46.200	0.263
1780.00	47.095	47.061	46.955	46.955	-0.035
1800.00	48.702	47.780	47.637	47.637	-0.922
1820.00	50.179	48.500	48.356	48.356	-1.679
1825.35	50.355	48.692	48.549	48.549	-1.863
1840.00	51.453	49.219	49.076	49.076	-2.233
1860.00	52.425	49.938	49.833	49.833	-2.486
1880.00	53.103	50.658	50.515	50.515	-2.445
1900.00	53.216	51.377	51.234	51.234	-1.839
1909.75	53.127	51.728	51.585	51.585	-1.399
1920.00	53.059	52.097	51.954	51.954	-0.962
1940.00	52.855	52.816	52.673	52.673	-0.038
1960.00	52.896	53.536	53.420	53.420	0.640
1974.37	53.019	54.053	53.909	53.909	1.033
1980.00	53.086	54.257	54.114	54.114	1.172
2000.00	53.419	55.021	54.877	54.877	1.602
2020.00	54.082	55.840	55.697	55.697	1.758
2040.00	54.895	56.715	56.610	56.609	1.821
2060.00	55.990	57.647	57.504	57.504	1.657
2074.37	56.818	58.350	58.207	58.207	1.532
2080.00	57.198	58.632	58.489	58.489	1.434
2100.00	58.621	59.632	59.488	59.488	1.011
2120.00	60.278	60.651	60.526	60.525	0.353
2140.00	61.719	61.651	61.488	61.488	-0.088
2160.00	63.114	62.651	62.487	62.487	-0.484
2180.00	64.274	63.630	63.487	63.487	-0.644
2188.86	64.686	64.073	63.946	63.945	-0.613
2200.00	65.222	64.614	64.509	64.508	-0.608
2210.19	65.615	65.081	64.950	64.950	-0.533
2220.00	65.993	65.506	65.363	65.363	-0.486
2240.00	66.961	66.296	66.186	66.185	-0.664
2260.00	67.707	66.984	66.841	66.841	-0.722
2268.86	68.020	67.257	67.114	67.114	-0.763
2280.00	68.347	67.586	67.443	67.443	-0.761
2300.00	68.911	68.178	68.035	68.035	-0.733
2304.93	69.063	68.324	68.181	68.181	-0.738

LONGITUDINAL SECTION

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

FOR CONSTRUCTION

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

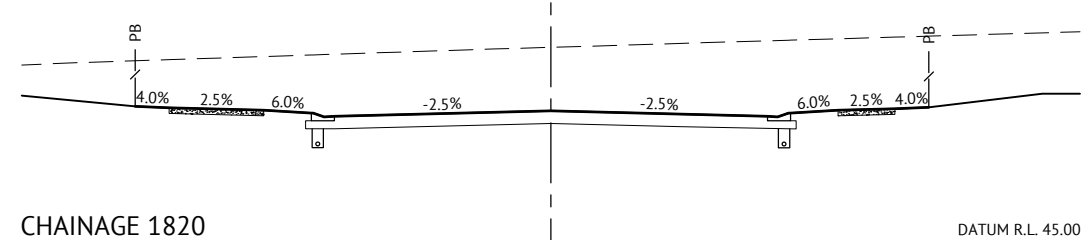
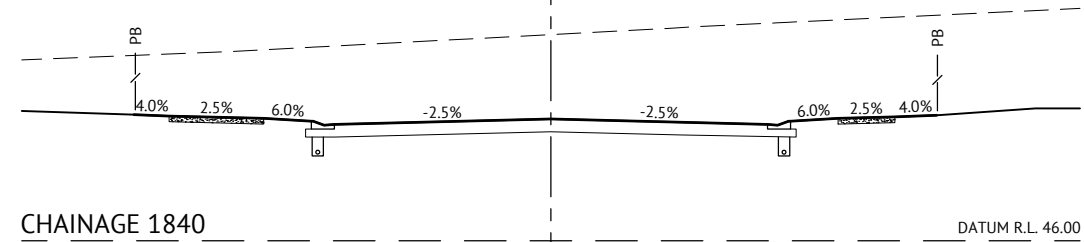
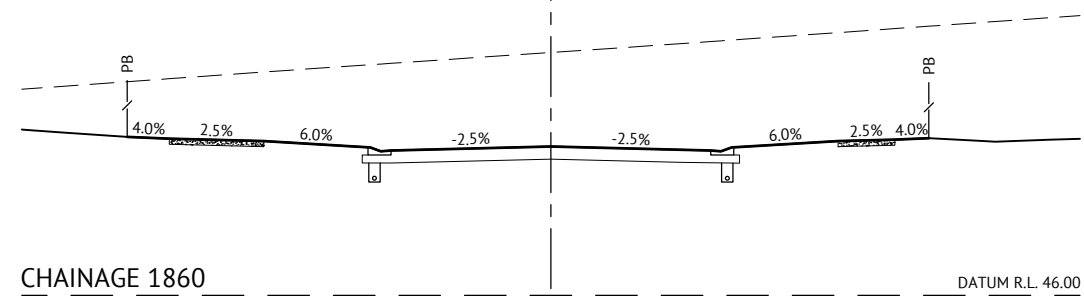
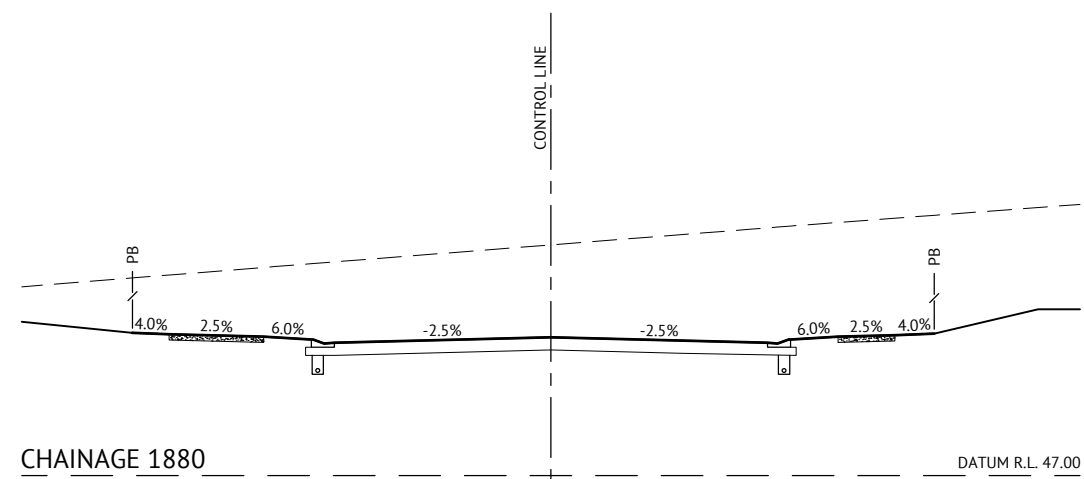
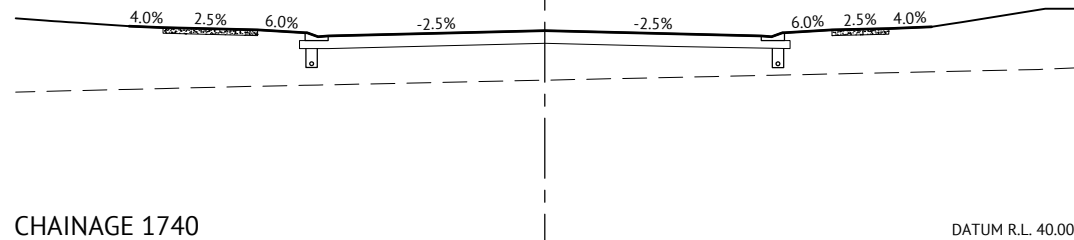
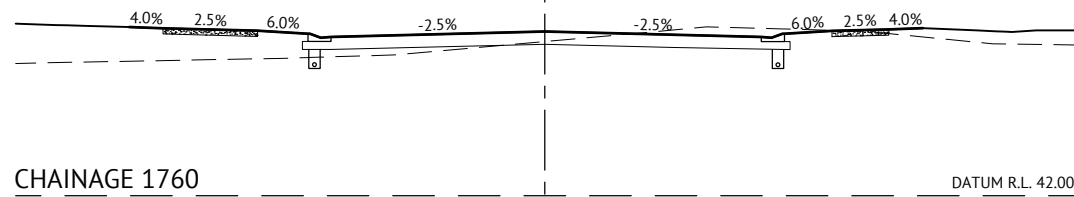
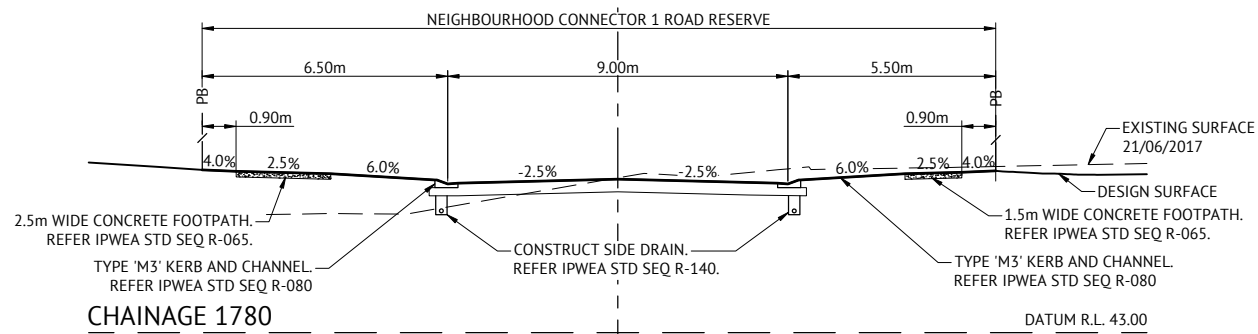
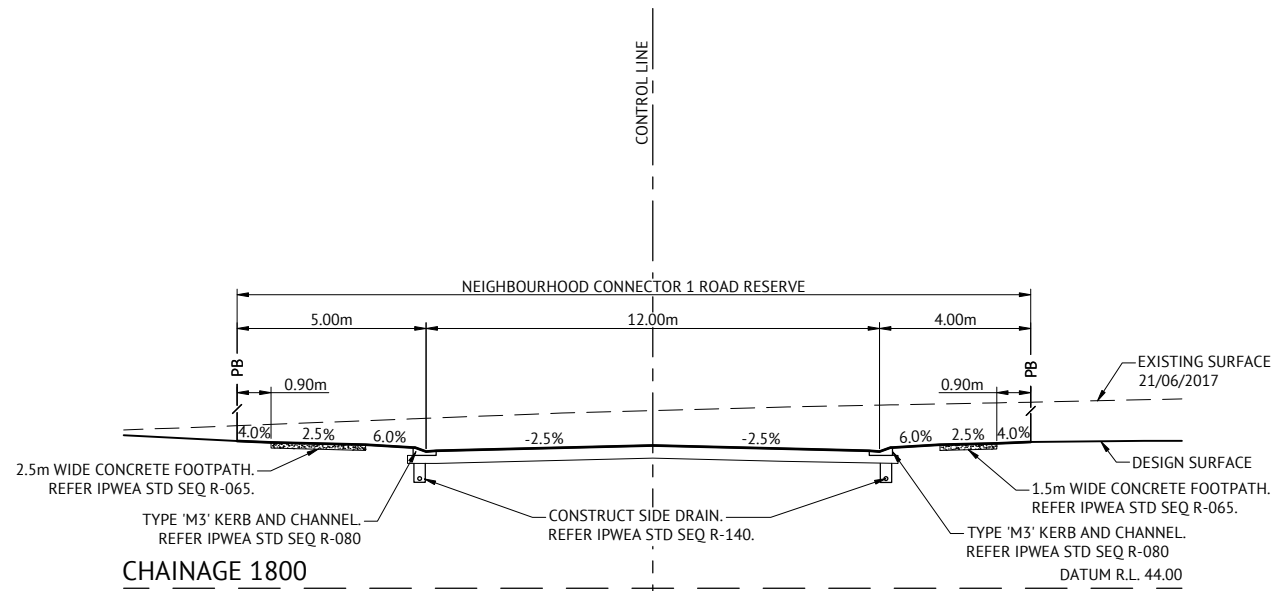
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ANDERSON DRIVE LONG SECTION

JOB CODE
MIR-0907
SHEET NUMBER
C310
REV
B

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	AMENDED PRIMER TYPE, UPDATED LONG SECTION LIP LEVELS	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



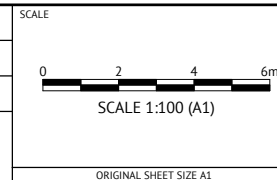
CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION



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

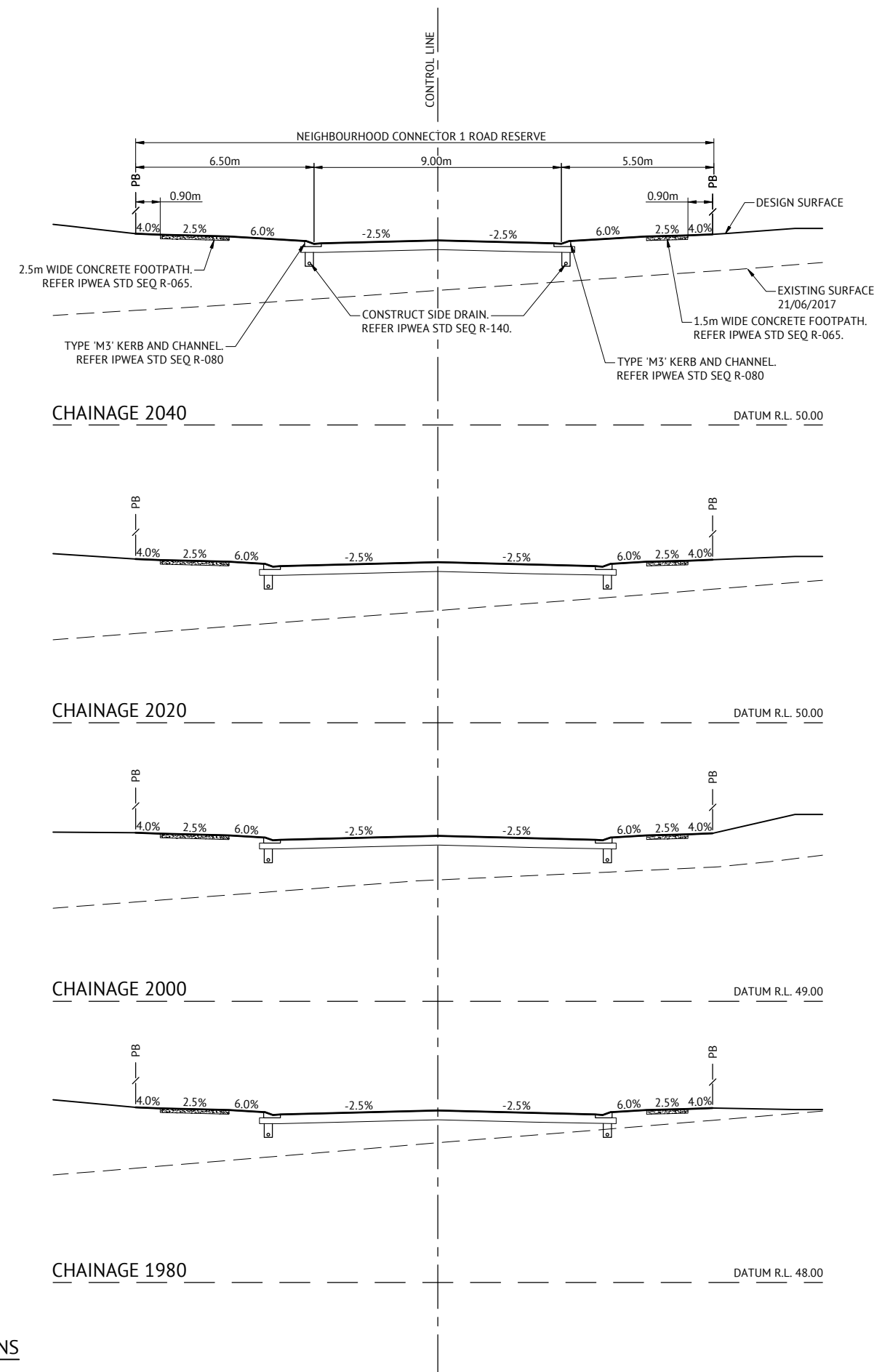
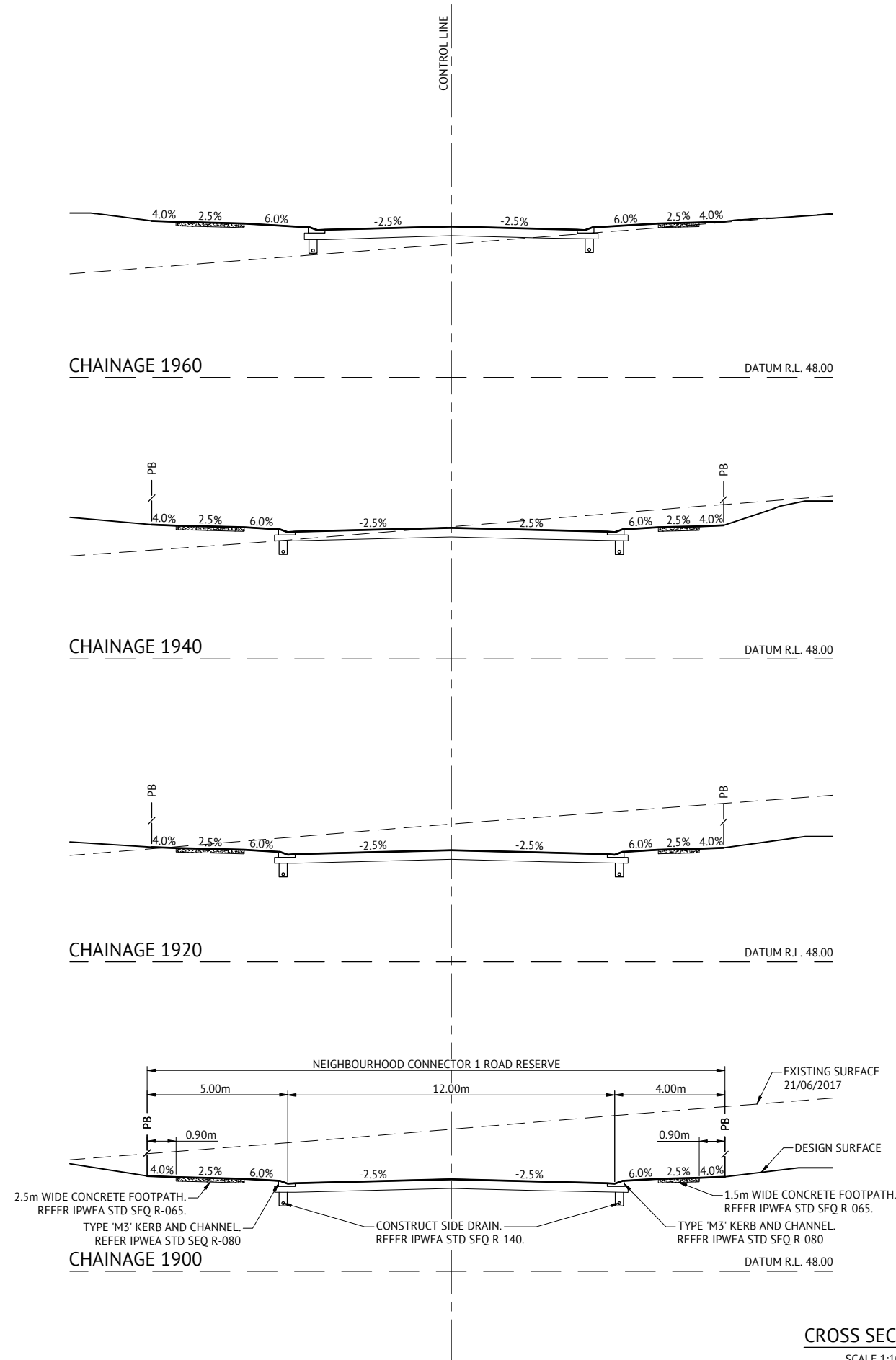
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ANDERSON DRIVE CROSS SECTIONS - SHEET 1

JOB CODE
MIR-0907
SHEET NUMBER
C311
REV
B

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



CROSS SECTIONS
SCALE 1:100

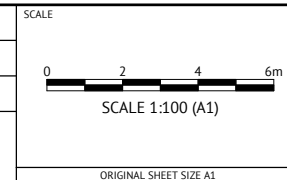
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



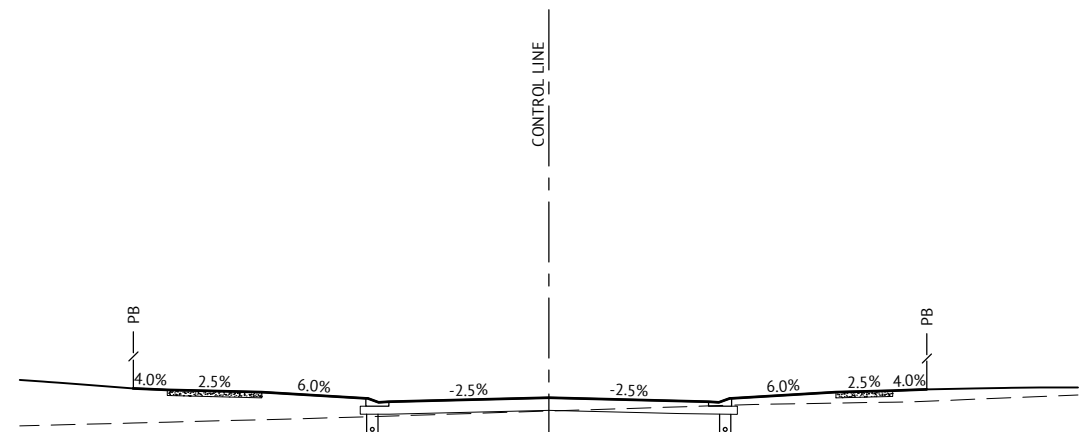
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

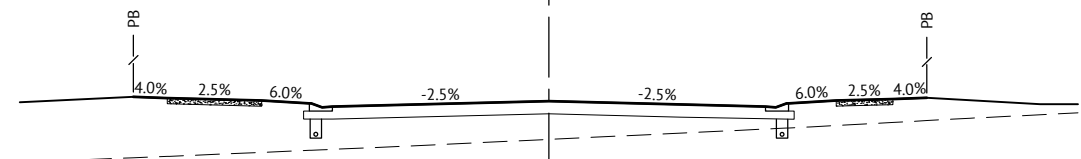


CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ANDERSON DRIVE CROSS SECTIONS - SHEET 2

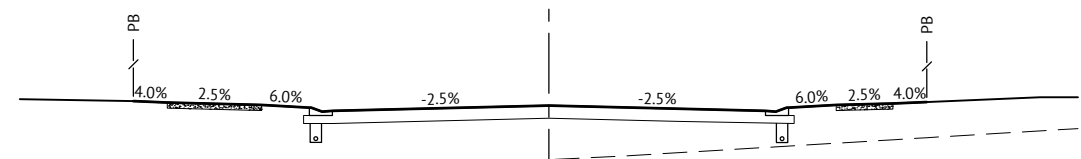
JOB CODE
MIR-0907
SHEET NUMBER
C312
REV
B



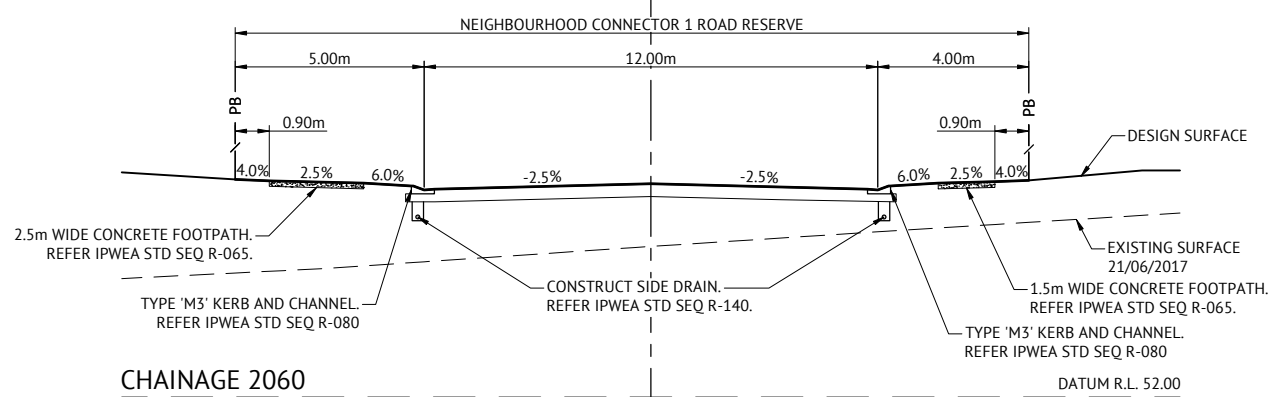
CHAINAGE 2120 DATUM R.L. 56.00



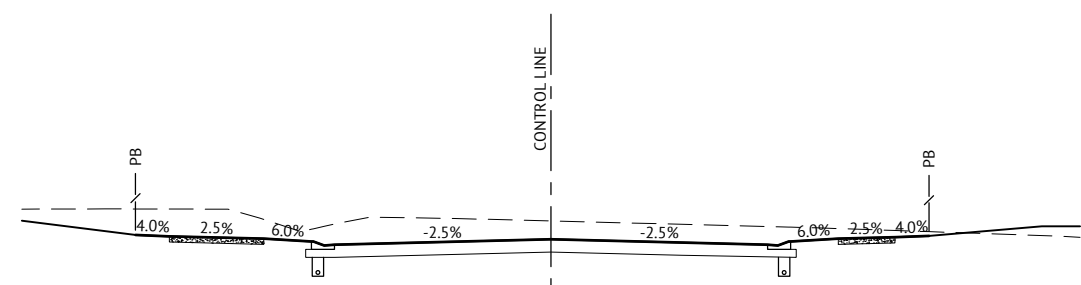
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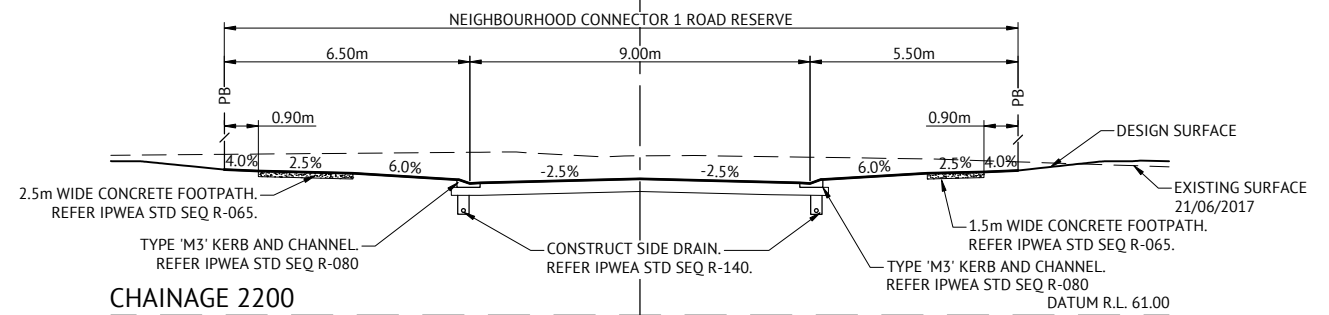
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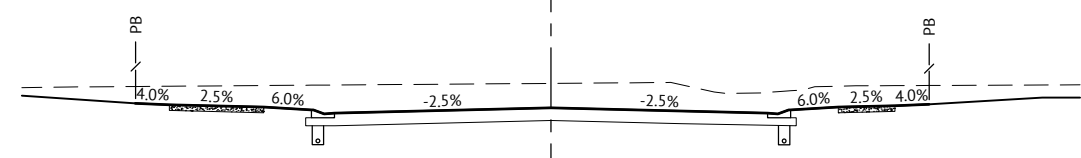
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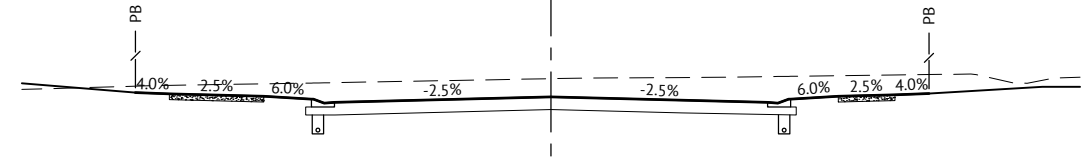
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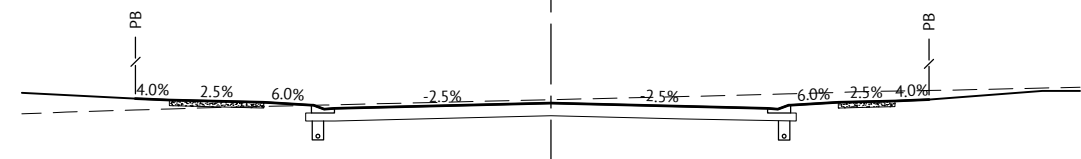
CHAINAGE 2200 DATUM R.L. 61.00



CHAINAGE 2180 DATUM R.L. 60.00



CHAINAGE 2160 DATUM R.L. 59.00



CHAINAGE 2140 DATUM R.L. 58.00

CROSS SECTIONS
SCALE 1:100

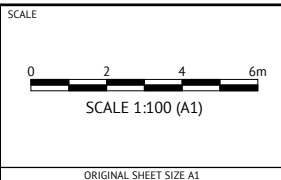
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK PB
18/10/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP



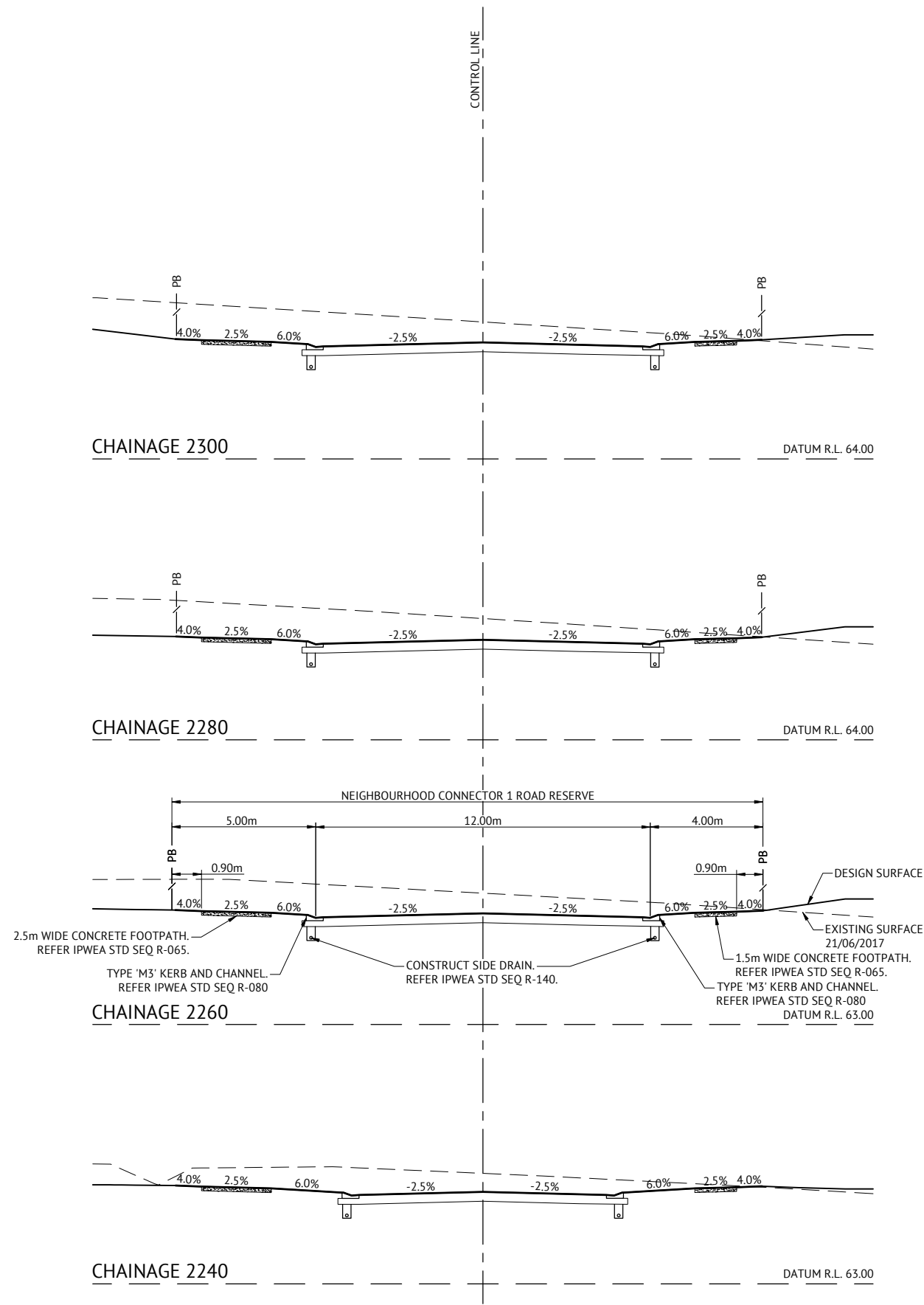
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ANDERSON DRIVE CROSS SECTIONS - SHEET 3

JOB CODE
MIR-0907
SHEET NUMBER
C313
REV
B



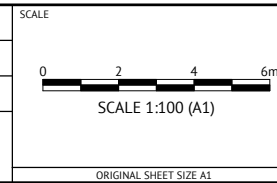
CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION



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

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



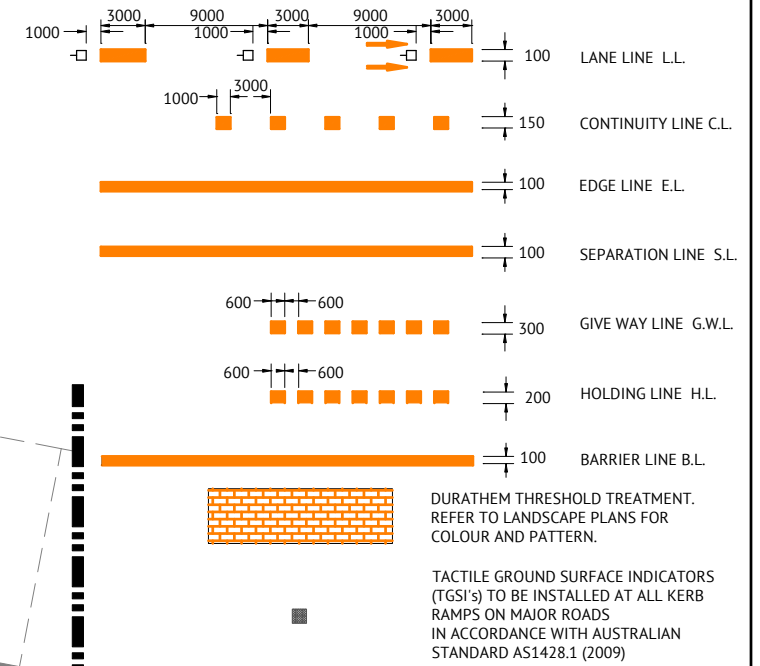
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ANDERSON DRIVE CROSS SECTIONS - SHEET 4

JOB CODE
MIR-0907
SHEET NUMBER
C314
REV
B

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

TYPICAL LINEMARKING LEGEND

N.T.S.



LINEMARKING NOTES

- 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-3165.
- ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
- EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
- ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORIZED U.N.O.
- ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
- EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
- 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.
- GENERALLY THE NORMAL SPACING BETWEEN RRPM's IS TO BE 12.0m U.N.O.
- ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
- NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
- ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

SIGNAGE NOTES

- 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.
- SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
- SIGNAGE SHALL BE IN ACCORDANCE WITH:
 - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
 - AS1743 ROAD SIGNS SPECIFICATION
 - AS4049.1 PAVEMENT MARKING MATERIALS
- STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.



PAVEMENT MARKINGS AND SIGNAGE LAYOUT
SCALE 1:500

JOINS SHEET 2

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
15/12/2022	B	ADDED LINEMARKING DIMENSIONS	NS	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

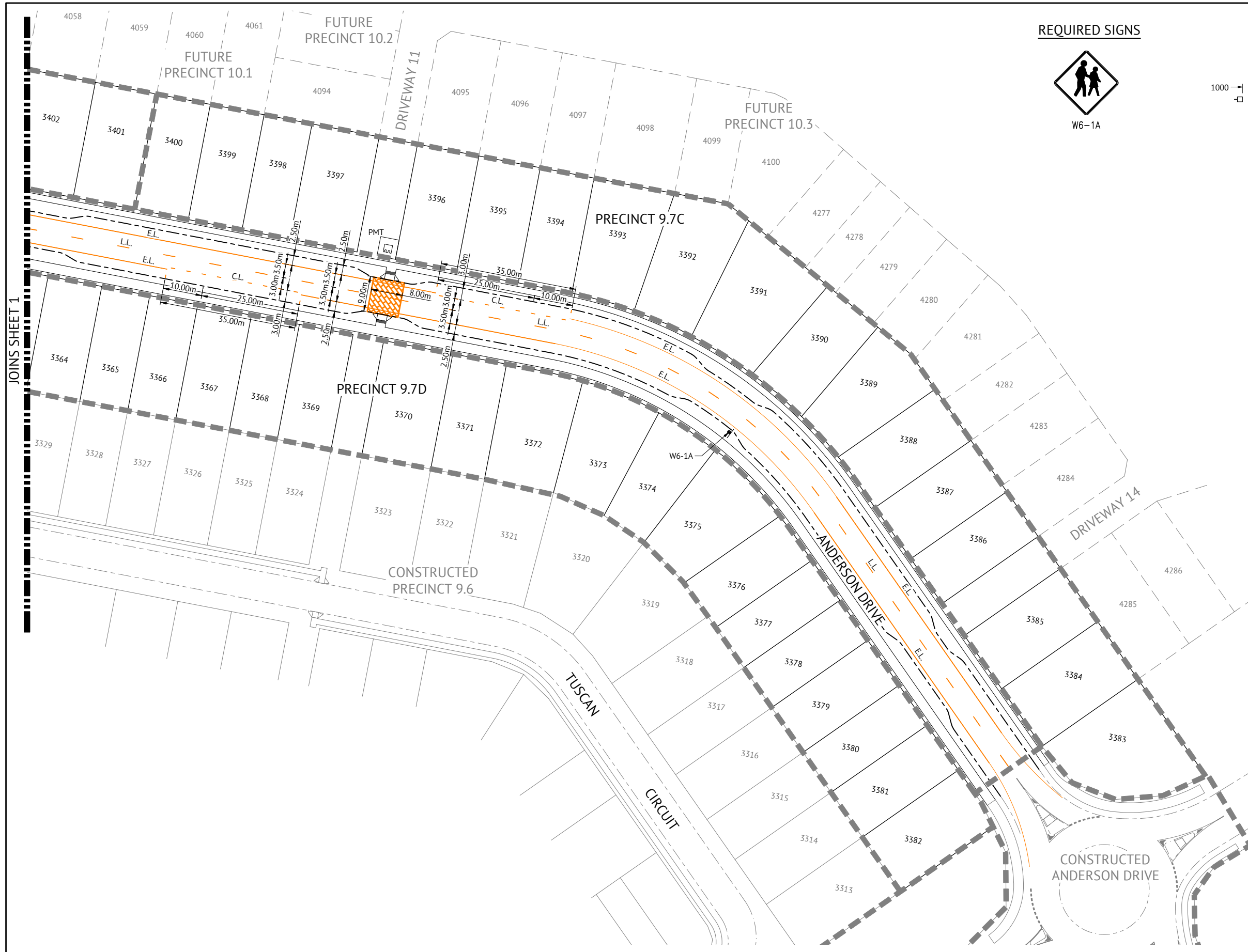
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
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 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 1

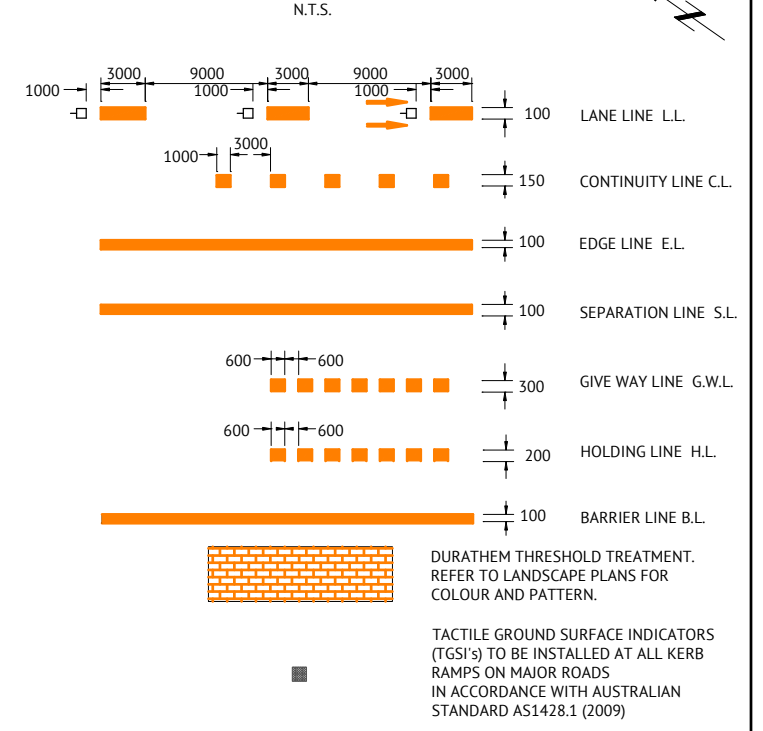
JOB CODE
MIR-0907
SHEET NUMBER
C330
REV
C



REQUIRED SIGNS



TYPICAL LINEMARKING LEGEND



LINEMARKING NOTES

- 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.
- ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
- EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
- ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
- ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
- EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
- 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.
- GENERALLY THE NORMAL SPACING BETWEEN RRPM'S IS TO BE 12.0m U.N.O.
- ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
- NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
- ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

SIGNAGE NOTES

- 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.
- SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
- SIGNAGE SHALL BE IN ACCORDANCE WITH:
 - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
 - AS1743 ROAD SIGNS SPECIFICATION
 - AS4049.1 PAVEMENT MARKING MATERIALS
- STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

PAVEMENT MARKINGS AND SIGNAGE LAYOUT
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	D	ISSUED FOR CONSTRUCTION	KK	PB
27/04/2023	C	ADDED WARNING SIGN	NS	PB
15/12/2022	B	ADDED LINEMARKING DIMENSIONS	NS	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

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

DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

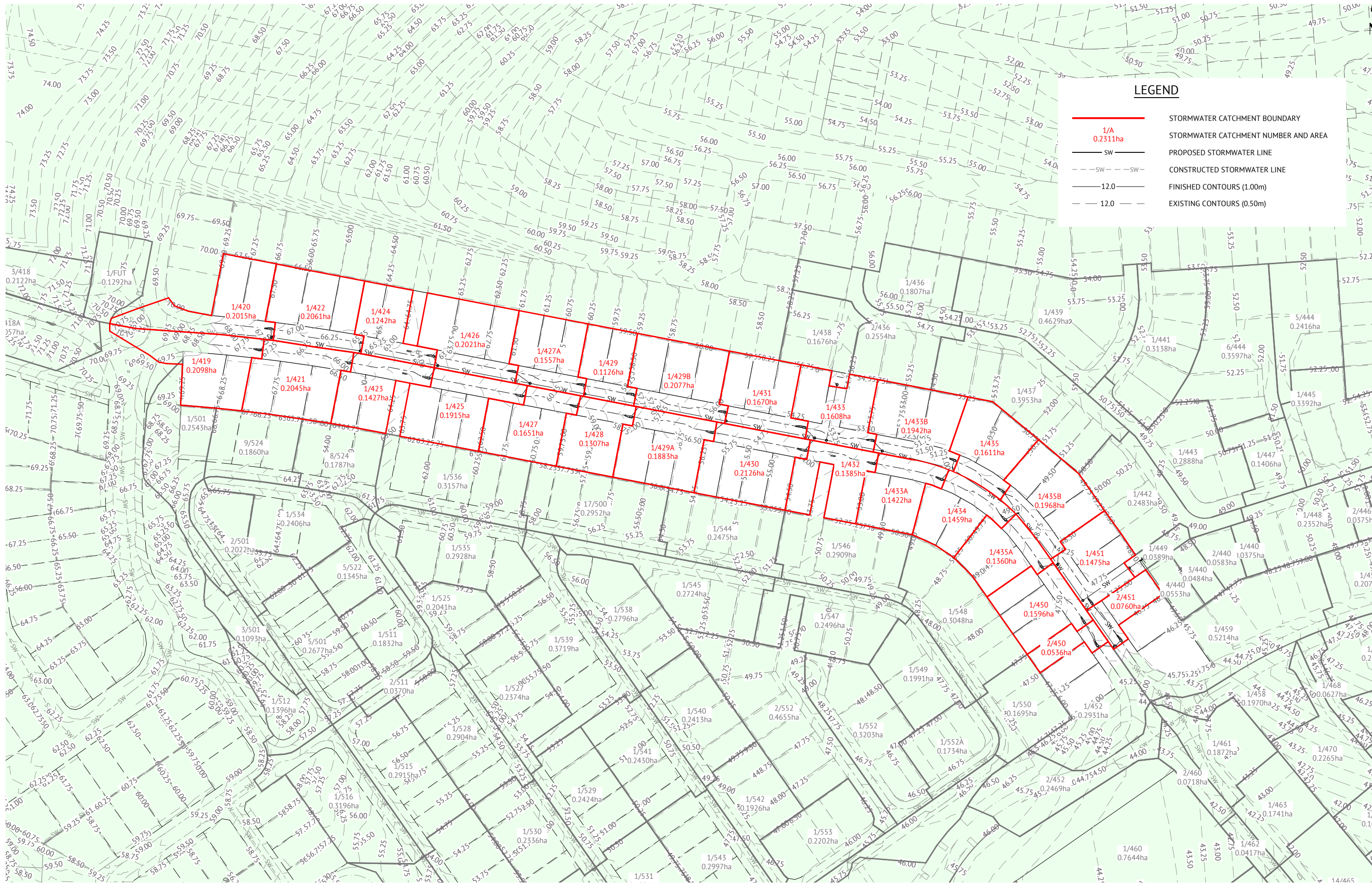
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 2

JOB CODE
MIR-0907

SHEET NUMBER
C331

REV
D



LEGEND

- STORMWATER CATCHMENT BOUNDARY
- 1/A
0.2311ha STORMWATER CATCHMENT NUMBER AND AREA
- SW PROPOSED STORMWATER LINE
- SW CONSTRUCTED STORMWATER LINE
- 12.0 FINISHED CONTOURS (1.00m)
- 12.0 EXISTING CONTOURS (0.50m)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP



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

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

SCALE
0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

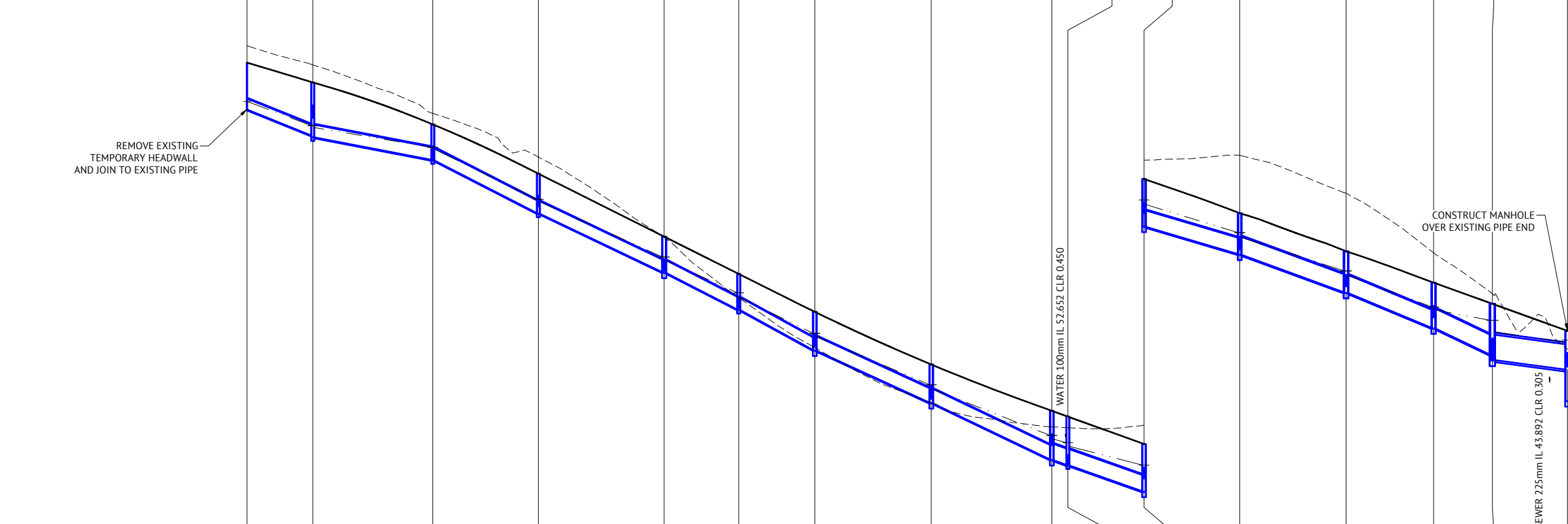
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER CATCHMENT LAYOUT PLAN

JOB CODE
MIR-0907
SHEET NUMBER
C400
REV
B

STRUCTURE NAME	4/418	4A/418	5/418	6/418	7/418	8/418	9/418	9A/418	10/418	10A/418	11/418	11A/418	12/418	12A/418	13/418	14/418
STRUCTURE DESCRIPTION	EXIST. TEMPORARY HEADWALL	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1350mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1350mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1500mm DIA

REMOVE EXISTING TEMPORARY HEADWALL AND JOIN TO EXISTING PIPE

CONSTRUCT MANHOLE OVER EXISTING PIPE END



PIPE SIZE (mm)	450	525	525	525	525	525	600	600	675	675	675	750	750	825	1050
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
PIPE GRADE (%)	3.95%	1.87%	5.00%	4.66%	4.93%	5.27%	4.47%	4.67%	2.99%	3.40%	2.86%	3.55%	4.00%	4.46%	1.26%
PIPE SLOPE (1 in X)	25.3	53.4	20.0	21.5	20.3	19.0	22.4	21.4	33.5	29.4	34.9	28.2	25.0	22.4	79.3
FULL PIPE VELOCITY (m/s)	1.42	1.66	2.31	2.86	3.49	4.09	3.51	3.96	3.55	3.70	4.03	3.53	3.79	3.35	3.75
PART FULL VELOCITY (m/s)	3.36	2.85	4.49	4.59	4.89	5.16	5.06	5.26	4.58	4.87	4.53	5.20	5.53	5.91	4.00
PIPE FLOW (cumecs)	0.227	0.360	0.500	0.620	0.756	0.885	0.992	1.120	1.270	1.323	1.442	1.560	1.674	1.791	3.249
PIPE CAPACITY AT GRADE (cumecs)	0.567	0.589	0.962	0.929	0.955	0.988	1.298	1.327	1.453	1.551	1.423	2.098	2.227	3.033	3.068
DATUM RL	43.0										32.0				

WSE IN STRUCTURE	66.546	65.543	64.642	63.484	60.088	58.604	56.920	54.787	52.683	52.386	51.455	50.100	48.513	47.018	46.462	45.549
HGL IN PIPE	66.546	65.543	64.642	63.484	60.088	58.604	56.920	54.787	52.683	52.386	51.455	50.100	48.513	47.018	46.462	45.549
DEPTH OF INVERT BELOW FSL	1.945	2.202	1.468	1.658	1.480	1.478	1.594	1.589	2.025	2.004	1.962	1.700	1.706	1.881	2.112	1.608
INVERT LEVEL	66.211	65.133	64.123	61.910	59.457	57.910	56.223	54.042	51.662	51.444	50.367	49.208	47.621	46.147	45.037	44.418
FINISHED (& EXISTING) SURFACE LEVEL	68.156 (68.854)	67.335 (68.062)	65.591 (66.051)	63.548 (64.239)	60.936 (60.901)	59.388 (58.402)	57.817 (56.353)	55.632 (54.042)	53.707 (53.046)	53.468 (53.008)	52.329 (53.112)	50.909 (53.314)	49.327 (51.741)	48.028 (49.266)	47.148 (47.562)	46.026 (45.261)
CHAINAGE	0.000	27.285	49.884	77.168	121.027	173.282	30.980	204.262	31.608	235.870	48.367	284.236	50.110	334.346	6.634	340.980

STRUCTURE NAME	1/419	4A/418	1/420	4A/418
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
PIPE SIZE (mm)	375	375	375	375
PIPE CLASS	2	2	2	2
PIPE GRADE (%)	1.00%	1.00%	1.00%	1.00%
PIPE SLOPE (1 in X)	100.0	100.0	100.0	100.0
FULL PIPE VELOCITY (m/s)	0.63	0.61	0.61	0.61
PART FULL VELOCITY (m/s)	1.50	1.48	1.48	1.48
PIPE FLOW (cumecs)	0.070	0.067	0.067	0.067
PIPE CAPACITY AT GRADE (cumecs)	0.175	0.175	0.175	0.175
DATUM RL	50.0	50.0	50.0	50.0
WSE IN STRUCTURE	66.464	65.543	66.314	65.543
HGL IN PIPE	66.464	65.543	66.314	65.543
DEPTH OF INVERT BELOW FSL	1.315	1.353	1.315	1.442
INVERT LEVEL	66.077	65.981	65.941	65.892
FINISHED (& EXISTING) SURFACE LEVEL	67.392 (68.674)	67.335 (68.062)	67.256 (67.790)	67.335 (68.062)
CHAINAGE	0.000	9.622	4.815	4.815

LINE 418 419 420

FOR CONSTRUCTION

08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

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

DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

JOB CODE
MIR-0907
 SHEET NUMBER
C410
 REV
B

STRUCTURE NAME	1/421	5/418	1/422	5/418	1/423	6/418	1/424	6/418	1/425	7/418	1/426	7/418	1/427	8/418	1/427A	8/418	1/428	9/418	1/429A	9A/418	1/429B	9A/418	1/429	9/418
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1350mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1350mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1200mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1200mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1200mm DIA		IPWEA KERB INLET L.I.L.; 2.4m Lintel IPWEA MANHOLE 1200mm DIA	
PIPE SIZE (mm)	375		375		375		375		375		375		375		375		375		375		375		375	
PIPE CLASS	2		2		2		2		2		2		2		2		2		2		2		2	
PIPE GRADE (%)	1.00%		1.00%		1.00%		1.25%		1.00%		3.79%		1.00%		1.00%		1.10%		1.37%		1.00%		2.70%	
PIPE SLOPE (1 in X)	100.0		100.0		100.0		79.9		100.0		26.4		100.0		100.0		90.9		73.1		100.0		37.0	
FULL PIPE VELOCITY (m/s)	0.67		1.52		1.47		0.55		0.65		0.66		0.63		0.54		0.63		0.63		0.65		0.50	
PART FULL VELOCITY (m/s)	1.52		1.52		1.47		1.56		1.51		2.46		1.49		1.48		1.49		1.68		1.51		2.01	
PIPE FLOW (cumecs)	0.074		0.074		0.065		0.061		0.072		0.073		0.069		0.067		0.060		0.069		0.072		0.055	
PIPE CAPACITY AT GRADE (cumecs)	0.175		0.175		0.175		0.196		0.175		0.342		0.175		0.175		0.184		0.205		0.175		0.288	
DATUM RL	49.0		48.0		47.0		47.0		44.0		44.0		42.0		42.0		40.0		38.0		38.0		41.0	
WSE IN STRUCTURE	64.857		64.849		62.668		62.633		60.298		60.378		58.787		58.759		57.074		54.991		54.969		57.044	
HGL IN PIPE	64.642		64.650		62.497		62.484		60.102		60.169		58.617		58.611		56.927		54.797		54.796		56.921	
DEPTH OF INVERT BELOW FSL	1.316		1.314		1.315		1.315		1.316		1.355		1.316		1.315		1.316		1.316		1.315		1.354	
INVERT LEVEL	64.377		64.220		62.311		62.305		62.229		60.973		59.548		58.061		56.592		54.480		54.290		56.624	
FINISHED (& EXISTING) SURFACE LEVEL	65.692 (66.496)		65.591 (66.051)		63.677 (64.375)		63.548 (64.239)		63.620 (64.330)		60.886 (60.936)		60.936 (60.901)		59.388 (58.402)		57.907 (56.071)		55.796 (53.696)		55.632 (54.042)		57.978 (56.931)	
CHAINAGE	0.000 9.384		0.000 4.857		0.000 8.625		0.000 8.625		-26.560 8.519		-24.952 -18.041		-24.952 -13.757		0.000 8.505		-8.001 8.771		0.000 10.208		0.000 5.129		-40.000 7.445	

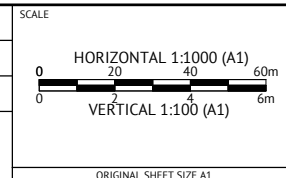
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION		KK	PB
18/10/2022	A	ISSUED FOR APPROVAL		KK	PB



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

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
(Signature)
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 2

JOB CODE
MIR-0907

SHEET NUMBER
C411

REV
B

STRUCTURE NAME	1/430
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 3.6m Lintel
	10/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.79
PART FULL VELOCITY (m/s)	1.58
PIPE FLOW (cumecs)	0.087
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	36.0

WSE IN STRUCTURE	52.950
HGL IN PIPE	52.681
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	52.422
FINISHED (& EXISTING) SURFACE LEVEL	53.738 (52.479)
CHAINAGE	-58.001 8.686 -29.315 (53.046)

LINE 430

STRUCTURE NAME	1/431
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 3.6m Lintel
	10/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.21%
PIPE SLOPE (1 in X)	45.2
FULL PIPE VELOCITY (m/s)	0.69
PART FULL VELOCITY (m/s)	2.05
PIPE FLOW (cumecs)	0.077
PIPE CAPACITY AT GRADE (cumecs)	0.261
DATUM RL	36.0

WSE IN STRUCTURE	52.928
HGL IN PIPE	52.703
DEPTH OF INVERT BELOW FSL	1.349
INVERT LEVEL	52.501
FINISHED (& EXISTING) SURFACE LEVEL	53.849 (53.484)
CHAINAGE	-40.000 8.549 -31.451 (53.046)

LINE 431

STRUCTURE NAME	1/432
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	11/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.56
PART FULL VELOCITY (m/s)	1.45
PIPE FLOW (cumecs)	0.062
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	35.0

WSE IN STRUCTURE	51.613
HGL IN PIPE	51.465
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	51.027
FINISHED (& EXISTING) SURFACE LEVEL	52.456 (52.456)
CHAINAGE	0.000 8.478 8.478 (53.112)

LINE 432

STRUCTURE NAME	1/433
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	11/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.10%
PIPE SLOPE (1 in X)	47.6
FULL PIPE VELOCITY (m/s)	0.63
PART FULL VELOCITY (m/s)	1.96
PIPE FLOW (cumecs)	0.069
PIPE CAPACITY AT GRADE (cumecs)	0.254
DATUM RL	35.0

WSE IN STRUCTURE	51.661
HGL IN PIPE	51.467
DEPTH OF INVERT BELOW FSL	1.348
INVERT LEVEL	51.102
FINISHED (& EXISTING) SURFACE LEVEL	52.424 (53.424)
CHAINAGE	0.000 8.074 8.074 (53.112)

LINE 433

STRUCTURE NAME	1/433A
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	11A/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.54
PART FULL VELOCITY (m/s)	1.43
PIPE FLOW (cumecs)	0.059
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	35.0

WSE IN STRUCTURE	50.237
HGL IN PIPE	50.110
DEPTH OF INVERT BELOW FSL	1.311
INVERT LEVEL	49.600
FINISHED (& EXISTING) SURFACE LEVEL	50.910 (52.724)
CHAINAGE	0.000 8.179 8.179 (53.314)

LINE 433A

STRUCTURE NAME	1/433B
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	11A/418
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.01%
PIPE SLOPE (1 in X)	98.6
FULL PIPE VELOCITY (m/s)	0.68
PART FULL VELOCITY (m/s)	1.53
PIPE FLOW (cumecs)	0.075
PIPE CAPACITY AT GRADE (cumecs)	0.177
DATUM RL	35.0

WSE IN STRUCTURE	50.266
HGL IN PIPE	50.109
DEPTH OF INVERT BELOW FSL	1.320
INVERT LEVEL	49.492
FINISHED (& EXISTING) SURFACE LEVEL	50.812 (53.711)
CHAINAGE	0.000 4.835 4.835 (53.314)

LINE 433B

STRUCTURE NAME	1/434
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	12/418
	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.54
PART FULL VELOCITY (m/s)	1.43
PIPE FLOW (cumecs)	0.059
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0

WSE IN STRUCTURE	48.646
HGL IN PIPE	48.523
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	47.990
FINISHED (& EXISTING) SURFACE LEVEL	49.305 (51.393)
CHAINAGE	0.000 8.135 8.135 (51.741)

LINE 434

STRUCTURE NAME	1/435
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	12/418
	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.16%
PIPE SLOPE (1 in X)	31.6
FULL PIPE VELOCITY (m/s)	0.63
PART FULL VELOCITY (m/s)	2.27
PIPE FLOW (cumecs)	0.069
PIPE CAPACITY AT GRADE (cumecs)	0.312
DATUM RL	34.0

WSE IN STRUCTURE	48.781
HGL IN PIPE	48.587
DEPTH OF INVERT BELOW FSL	1.345
INVERT LEVEL	48.395
FINISHED (& EXISTING) SURFACE LEVEL	49.740 (52.628)
CHAINAGE	0.000 14.292 14.292 (51.741)

LINE 435

STRUCTURE NAME	1/435A
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	12A/418
	IPWEA MANHOLE 1350mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.52
PART FULL VELOCITY (m/s)	1.42
PIPE FLOW (cumecs)	0.057
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	31.0

WSE IN STRUCTURE	47.151
HGL IN PIPE	47.020
DEPTH OF INVERT BELOW FSL	1.331
INVERT LEVEL	46.740
FINISHED (& EXISTING) SURFACE LEVEL	48.071 (49.347)
CHAINAGE	0.000 9.080 9.080 (49.266)

LINE 435A

STRUCTURE NAME	1/435B
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	12A/418
	IPWEA MANHOLE 1350mm DIA

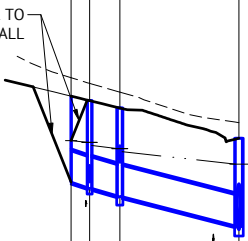


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.06%
PIPE SLOPE (1 in X)	48.6
FULL PIPE VELOCITY (m/s)	0.68
PART FULL VELOCITY (m/s)	1.99
PIPE FLOW (cumecs)	0.075
PIPE CAPACITY AT GRADE (cumecs)	0.252
DATUM RL	31.0

WSE IN STRUCTURE	47.208
HGL IN PIPE	46.988
DEPTH OF INVERT BELOW FSL	1.348
INVERT LEVEL	46.788
FINISHED (& EXISTING) SURFACE LEVEL	48.136 (49.885)
CHAINAGE	0.000 7.847 7.847 (49.266)

LINE 435B

STRUCTURE NAME	8A/436
STRUCTURE DESCRIPTION	TEMPORARY HEADWALL
	9/436
	IPWEA MANHOLE 1050mm DIA
	10/436
	IPWEA MANHOLE 1200mm DIA
	13/418
	IPWEA MANHOLE 1800mm DIA



PIPE SIZE (mm)	825
PIPE CLASS	2
PIPE GRADE (%)	3.00%
PIPE SLOPE (1 in X)	33.3
FULL PIPE VELOCITY (m/s)	2.60
PART FULL VELOCITY (m/s)	4.78
PIPE FLOW (cumecs)	1.388
PIPE CAPACITY AT GRADE (cumecs)	2.487
DATUM RL	30.0

WSE IN STRUCTURE	47.087
HGL IN PIPE	47.087
DEPTH OF INVERT BELOW FSL	2.260
INVERT LEVEL	45.990
FINISHED (& EXISTING) SURFACE LEVEL	48.250 (48.749)
CHAINAGE	0.000 4.880 4.880 8.000 12.880 (48.370)

LINE 436

MAX. 1 IN 4 BATTER TO TEMPORARY HEADWALL

SEWER 150mm I.L. 45.149 CLR 0.507

SEWER 225mm I.L. 44.391 CLR 0.313

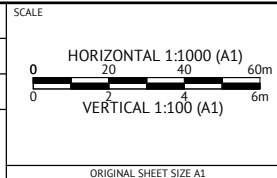
FOR CONSTRUCTION

08/06/2023	B	AMENDED INVERT LEVELS	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP



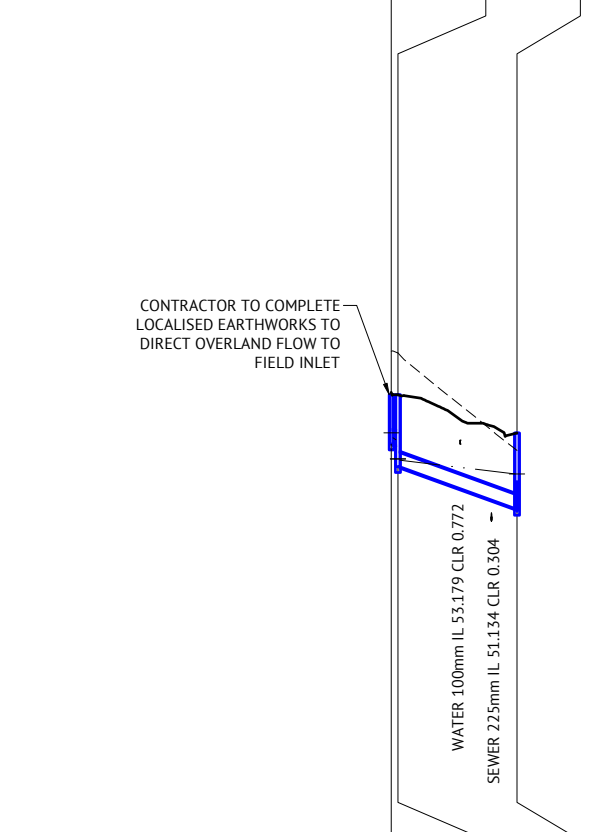
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
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DESIGNED
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CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 3
JOB CODE
MIR-0907
SHEET NUMBER
C412
REV
B

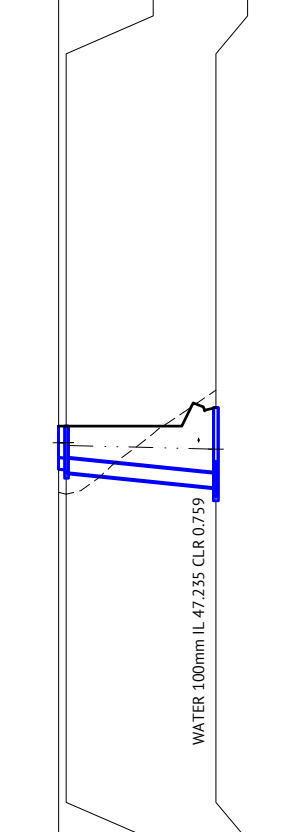
STRUCTURE NAME	1/438	2/438	10A/418
STRUCTURE DESCRIPTION	TEMPORARY IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375	375
PIPE CLASS	2	2
PIPE GRADE (%)	1.20%	3.50%
PIPE SLOPE (1 in X)	83.3	28.6
FULL PIPE VELOCITY (m/s)	0.51	0.51
PART FULL VELOCITY (m/s)	1.51	2.23
PIPE FLOW (cumecs)	0.057	0.057
PIPE CAPACITY AT GRADE (cumecs)	0.192	0.328
DATUM RL	37.0	
WSE IN STRUCTURE	53.474	
HGL IN PIPE	53.343	52.783
DEPTH OF INVERT BELOW FSL	1.315	1.332
INVERT LEVEL	53.170	52.575
FINISHED (& EXISTING) SURFACE LEVEL	54.486 (53.631)	54.482 (55.584)
CHAINAGE	0.000	31.507

LINE 438

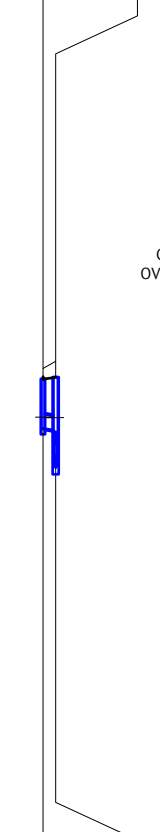
STRUCTURE NAME	4/440	5/440	9/436
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	300	375
PIPE CLASS	uPVC SN8	2
PIPE GRADE (%)	1.00%	1.00%
PIPE SLOPE (1 in X)	100.0	100.0
FULL PIPE VELOCITY (m/s)	0.89	0.79
PART FULL VELOCITY (m/s)	1.66	1.59
PIPE FLOW (cumecs)	0.063	0.087
PIPE CAPACITY AT GRADE (cumecs)	0.114	0.175
DATUM RL	31.0	
WSE IN STRUCTURE	47.209	47.216
HGL IN PIPE	47.209	47.140
DEPTH OF INVERT BELOW FSL	1.134	1.154
INVERT LEVEL	46.516	46.421
FINISHED (& EXISTING) SURFACE LEVEL	47.650 (45.899)	47.650 (45.851)
CHAINAGE	0.000	39.592

LINE 440

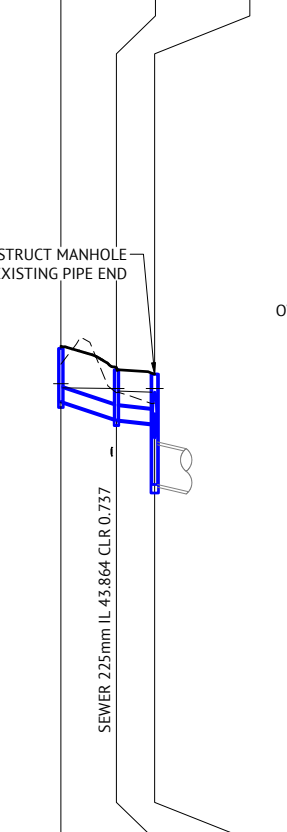
STRUCTURE NAME	1/449	10/436
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375	
PIPE CLASS	2	
PIPE GRADE (%)	1.20%	
PIPE SLOPE (1 in X)	83.3	
FULL PIPE VELOCITY (m/s)	0.16	
PART FULL VELOCITY (m/s)	1.08	
PIPE FLOW (cumecs)	0.017	
PIPE CAPACITY AT GRADE (cumecs)	0.192	
DATUM RL	30.0	
WSE IN STRUCTURE	46.888	46.876
HGL IN PIPE	46.875	46.876
DEPTH OF INVERT BELOW FSL	1.315	1.404
INVERT LEVEL	46.571	46.531
FINISHED (& EXISTING) SURFACE LEVEL	47.886 (48.174)	47.955 (48.370)
CHAINAGE	0.000	3.350

LINE 449

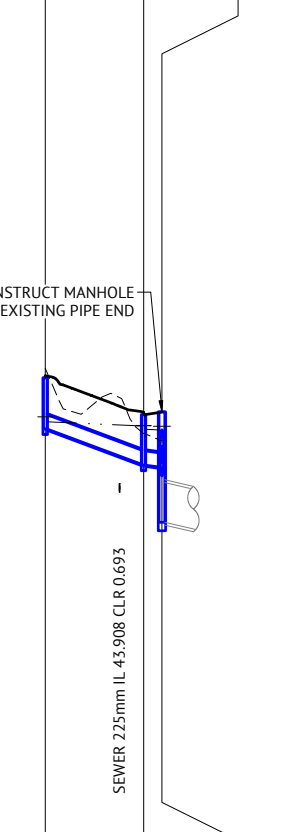
STRUCTURE NAME	1/450	2/450	14/418
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Linet	IPWEA KERB INLET L.I.L.: 2.4m Linet	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	375	375
PIPE CLASS	2	2
PIPE GRADE (%)	3.11%	1.00%
PIPE SLOPE (1 in X)	32.1	100.0
FULL PIPE VELOCITY (m/s)	0.56	0.88
PART FULL VELOCITY (m/s)	2.18	1.63
PIPE FLOW (cumecs)	0.061	0.098
PIPE CAPACITY AT GRADE (cumecs)	0.310	0.175
DATUM RL	28.0	
WSE IN STRUCTURE	45.773	45.647
HGL IN PIPE	45.663	45.580
DEPTH OF INVERT BELOW FSL	1.414	1.328
INVERT LEVEL	45.292	44.814
FINISHED (& EXISTING) SURFACE LEVEL	46.705 (46.290)	46.026 (45.261)
CHAINAGE	-21.091	3.737

LINE 450

STRUCTURE NAME	1/451	2/451	14/418
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Linet	IPWEA KERB INLET L.I.L.: 2.4m Linet	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	375	375
PIPE CLASS	2	2
PIPE GRADE (%)	3.61%	1.00%
PIPE SLOPE (1 in X)	27.7	100.0
FULL PIPE VELOCITY (m/s)	0.60	1.01
PART FULL VELOCITY (m/s)	2.35	1.68
PIPE FLOW (cumecs)	0.067	0.112
PIPE CAPACITY AT GRADE (cumecs)	0.333	0.175
DATUM RL	29.0	
WSE IN STRUCTURE	45.895	45.665
HGL IN PIPE	45.765	45.568
DEPTH OF INVERT BELOW FSL	1.352	1.339
INVERT LEVEL	45.577	44.818
FINISHED (& EXISTING) SURFACE LEVEL	46.929 (47.181)	46.026 (45.261)
CHAINAGE	-16.000	14.881

LINE 451

FOR CONSTRUCTION

08/06/2023	B	AMENDED INVERT LEVELS	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

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

DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

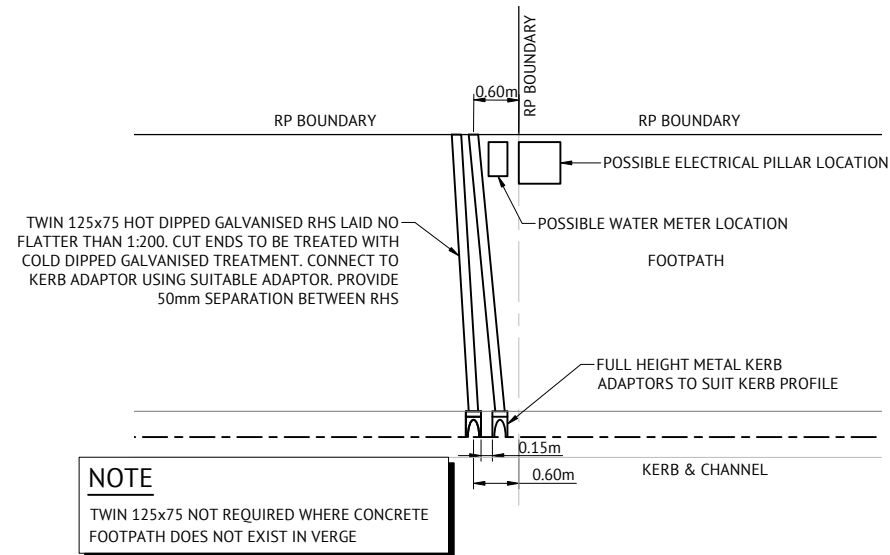
SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 4

JOB CODE
MIR-0907
 SHEET NUMBER
C413
 REV
B

STORMWATER DRAINAGE NOTES

- ALL STORMWATER DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, STORMWATER LAYOUT PLANS, NOTES AND DETAILS.
- 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.
- ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
- ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
- ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR DN150 & DN225, AND CLASS 'SN6' FOR DN100 UNLESS NOTED OTHERWISE.
- PIPES SHALL BE LAID AT MIN. 1% GRADE UNLESS NOTED OTHERWISE.
- 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.
- 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.
- BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
- WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
- 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.
- ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
- ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
- ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
- 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).



TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL
N.T.S.

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

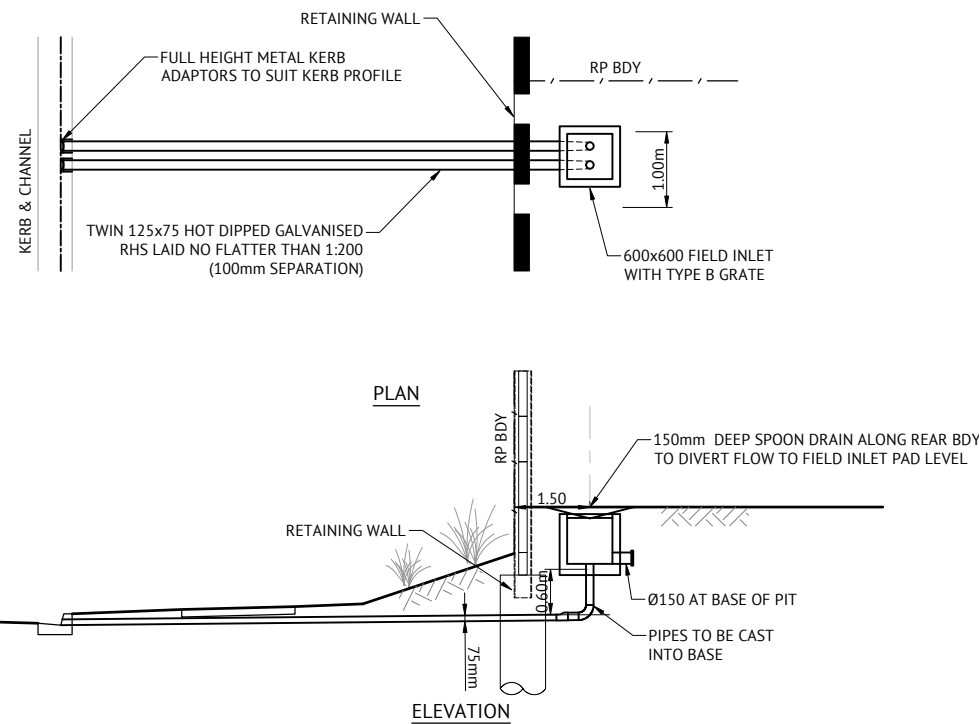
STRUCTURE TYPE	HORIZONTAL CONTROL POINT (REFERENCE POINT LOCATION)	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION 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:

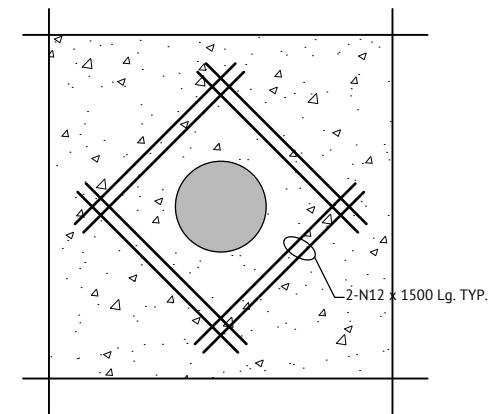
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

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 PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL
N.T.S.



TYPICAL DETAIL
GRADED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



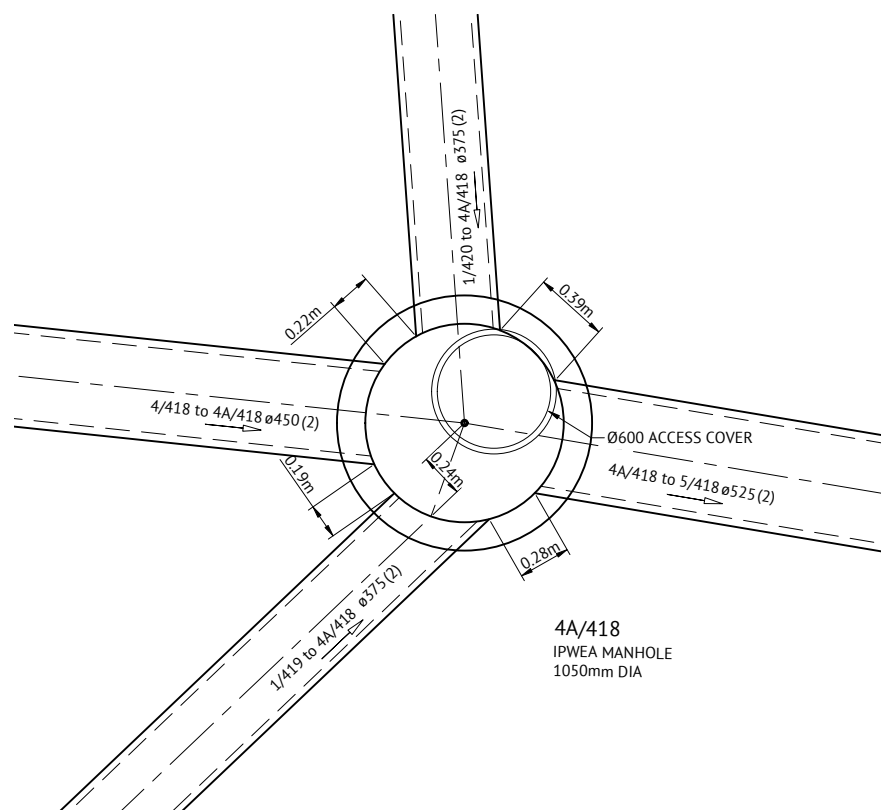
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

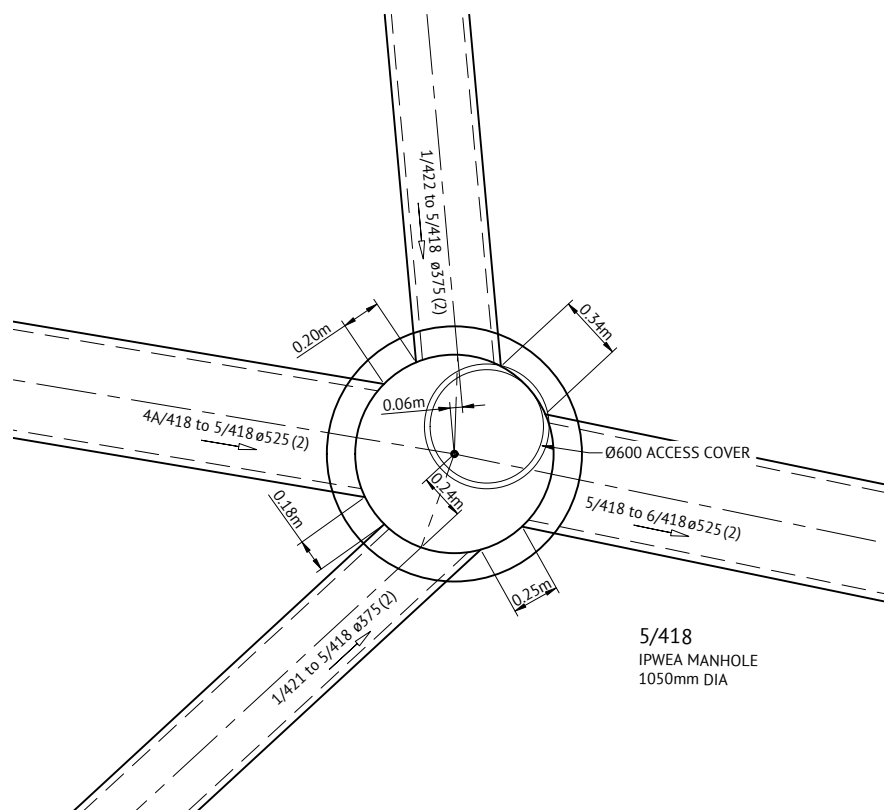
SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE NOTES AND DETAILS

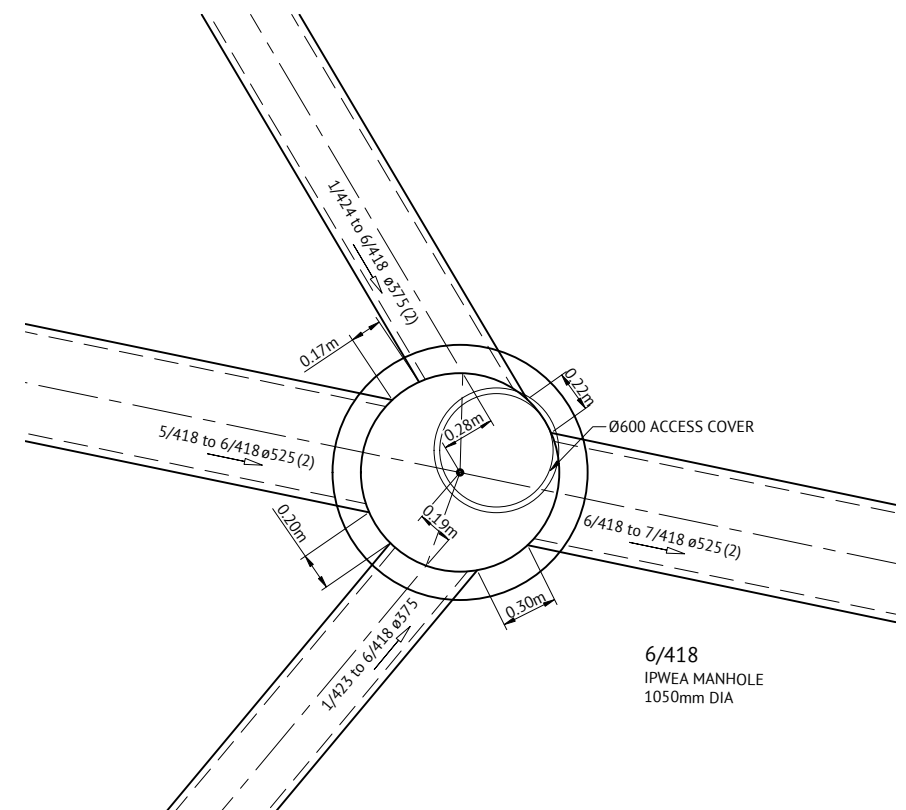
JOB CODE
MIR-0907
SHEET NUMBER
C420
REV
B



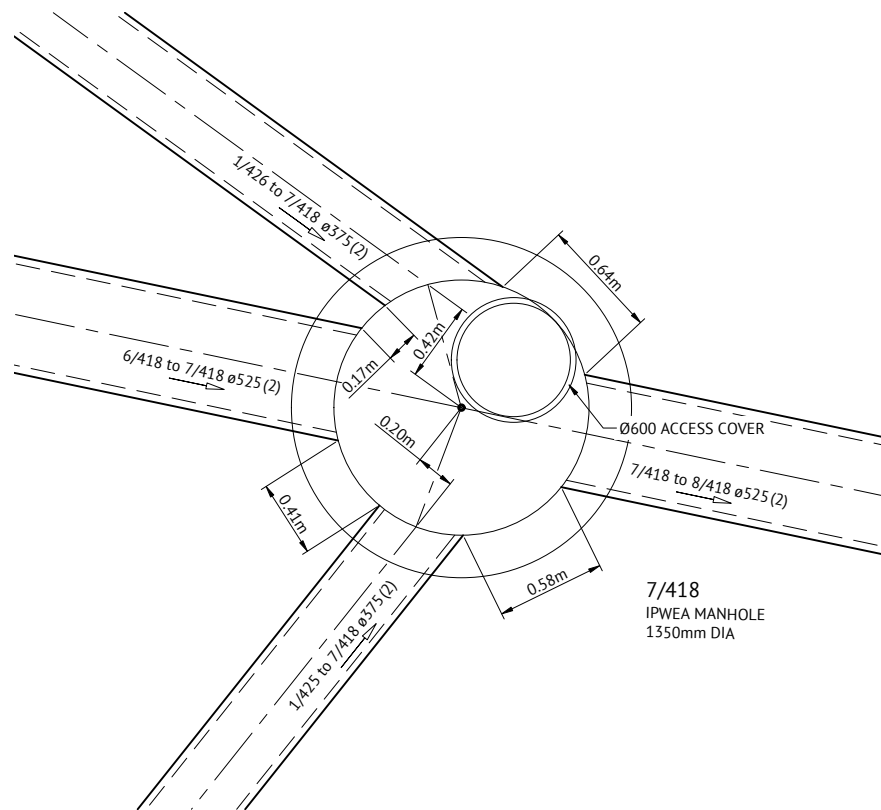
4A/418
IPWEA MANHOLE
1050mm DIA



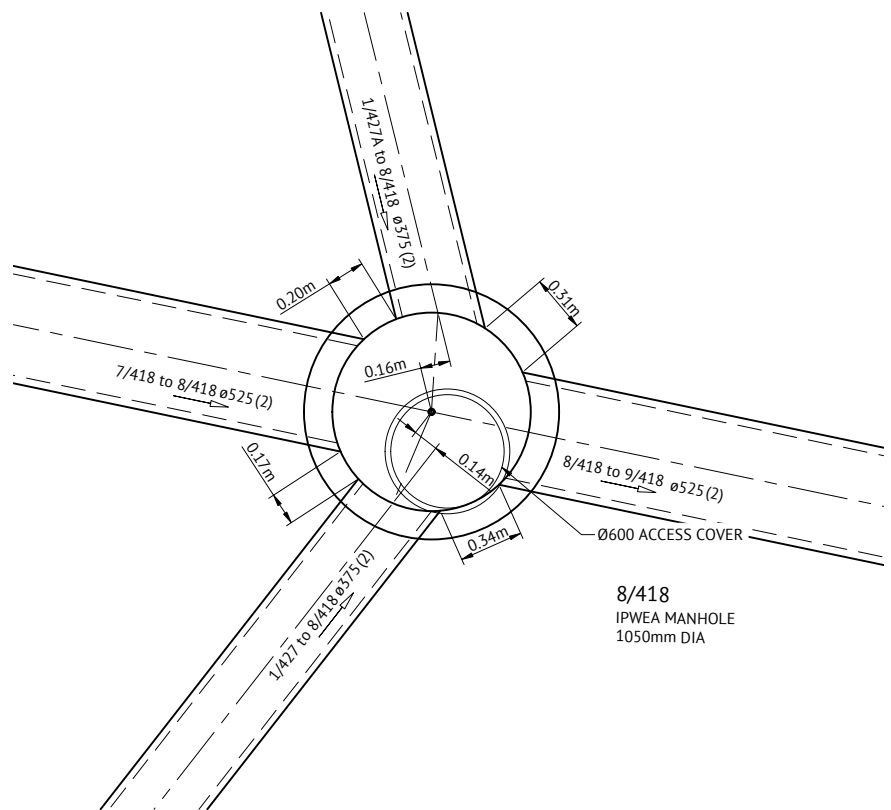
5/418
IPWEA MANHOLE
1050mm DIA



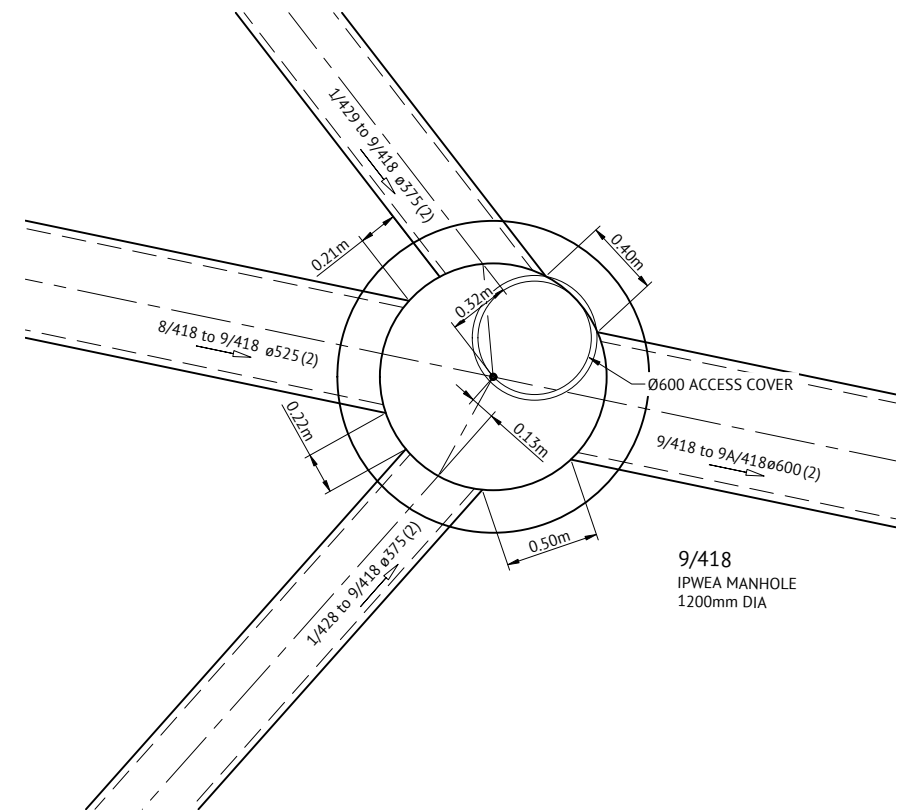
6/418
IPWEA MANHOLE
1050mm DIA



7/418
IPWEA MANHOLE
1350mm DIA



8/418
IPWEA MANHOLE
1050mm DIA



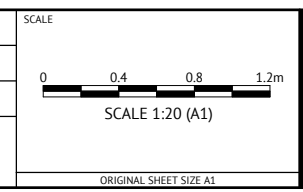
9/418
IPWEA MANHOLE
1200mm DIA

FOR CONSTRUCTION



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

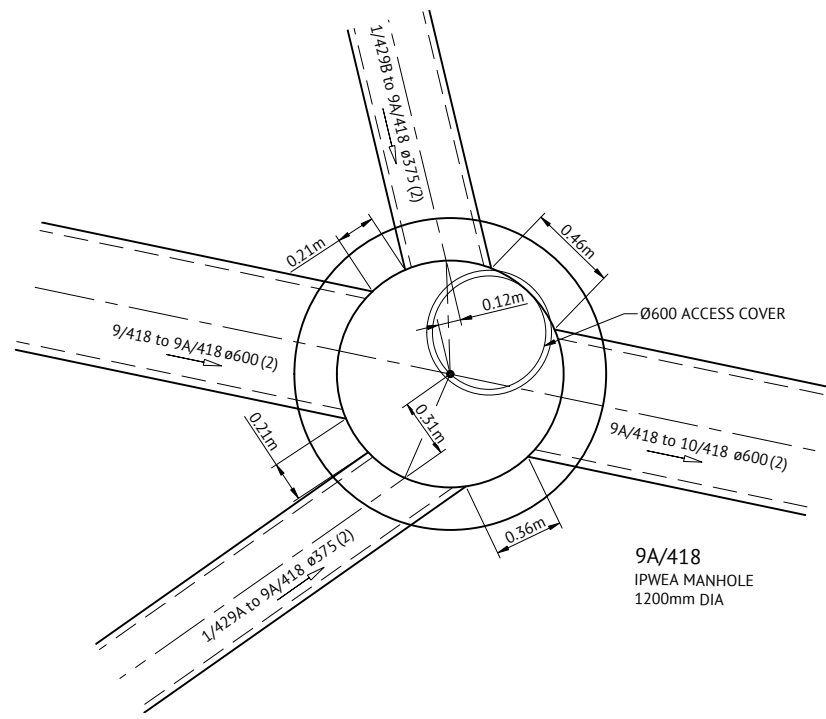
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



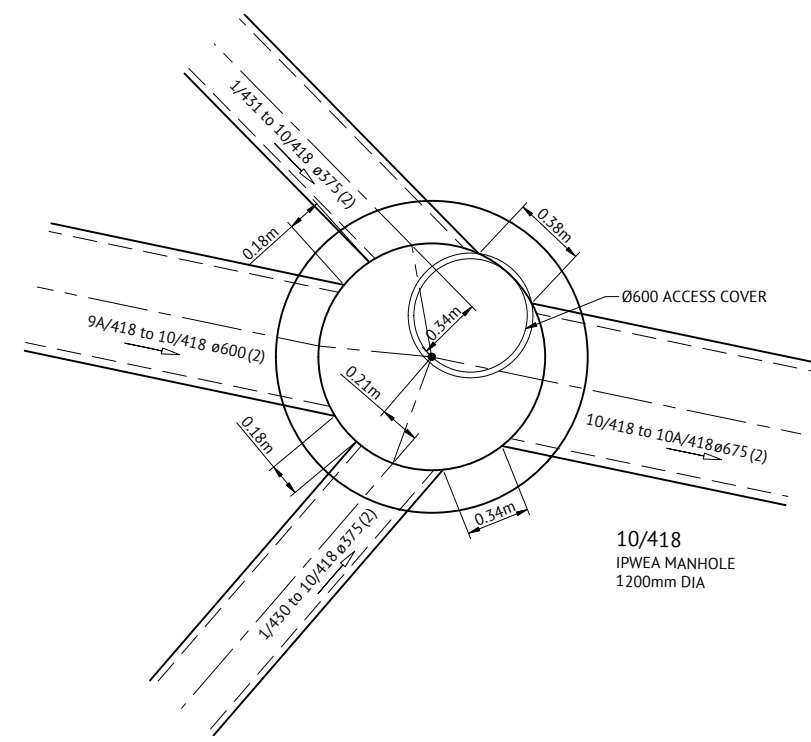
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1

JOB CODE
MIR-0907
SHEET NUMBER
C430
REV
B

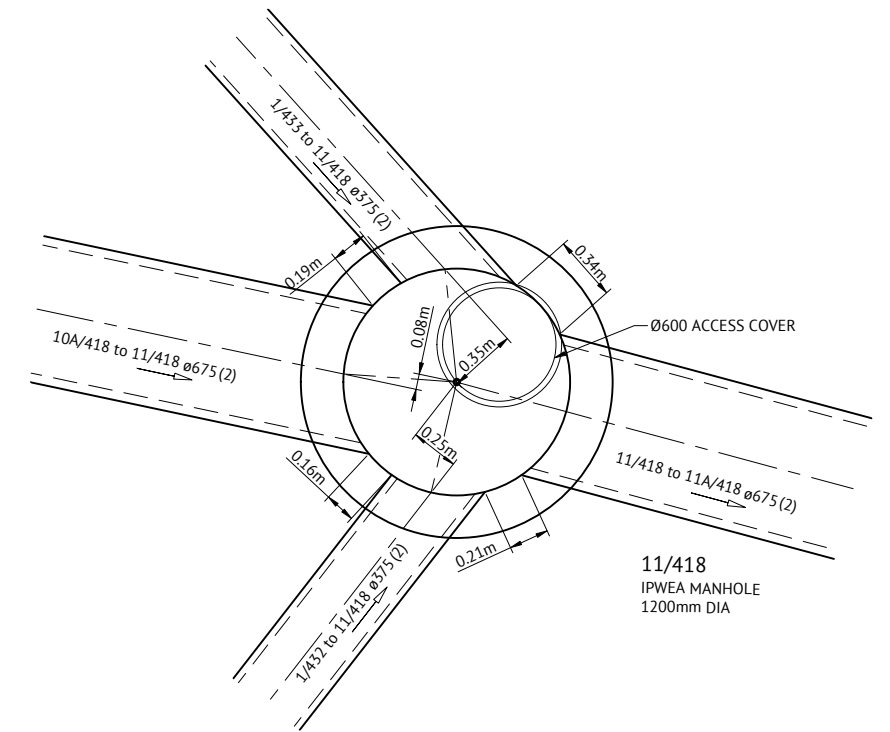
DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



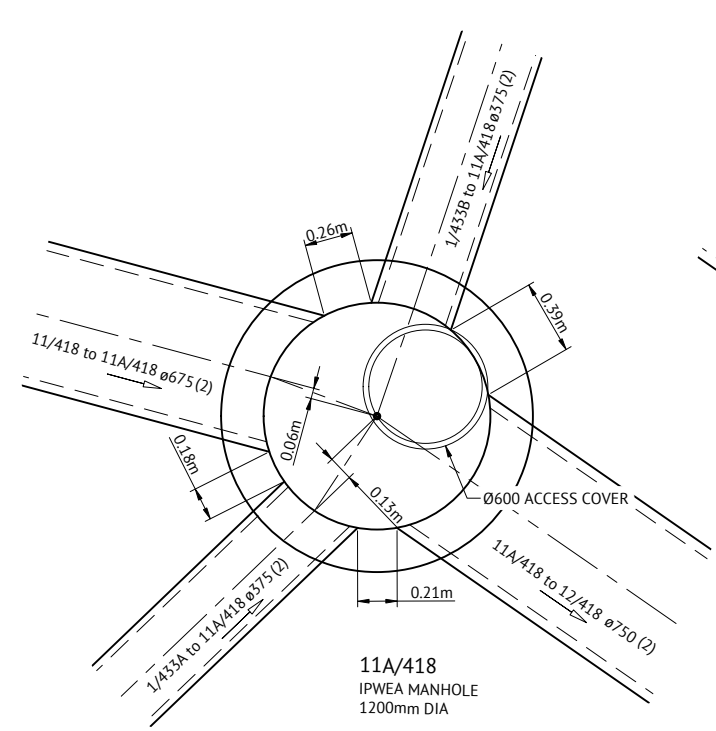
9A/418
IPWEA MANHOLE
1200mm DIA



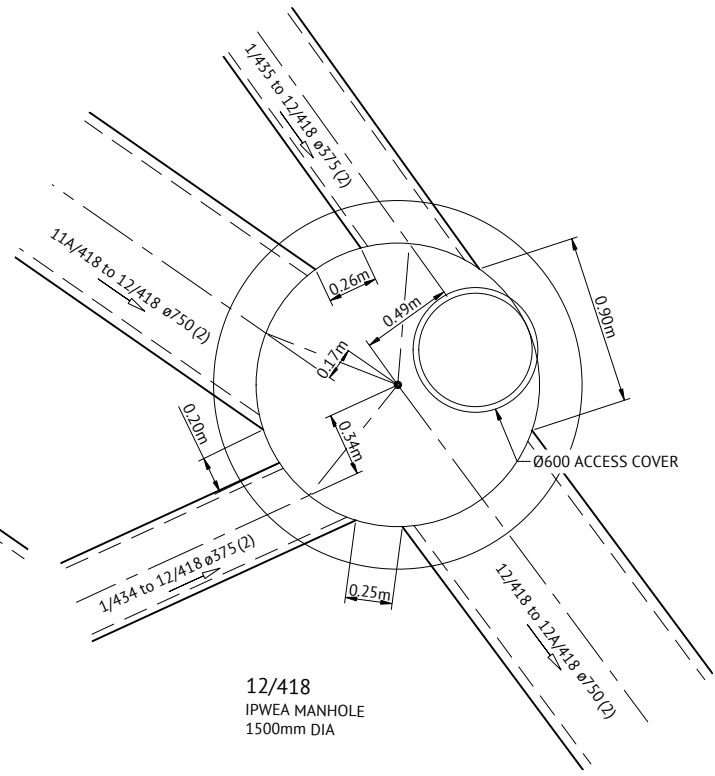
10/418
IPWEA MANHOLE
1200mm DIA



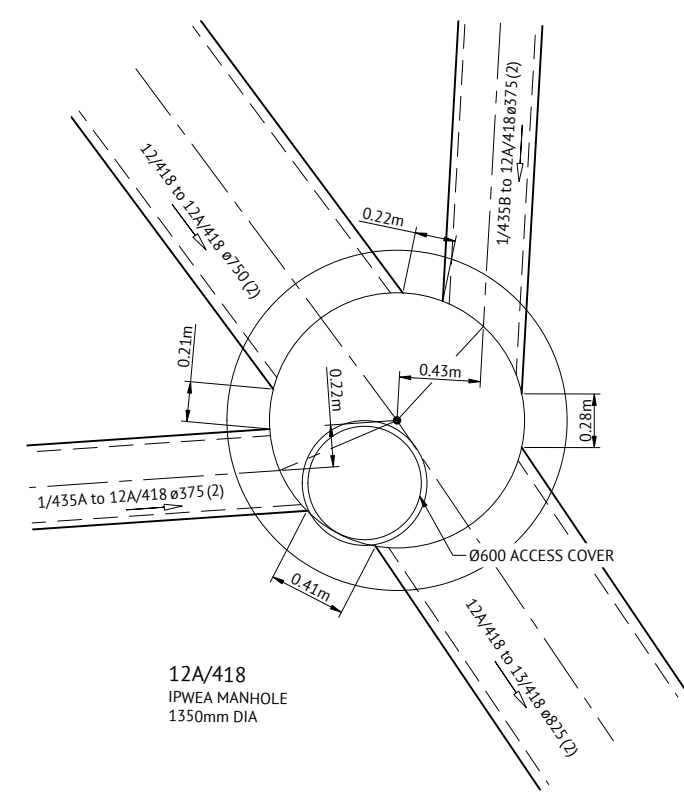
11/418
IPWEA MANHOLE
1200mm DIA



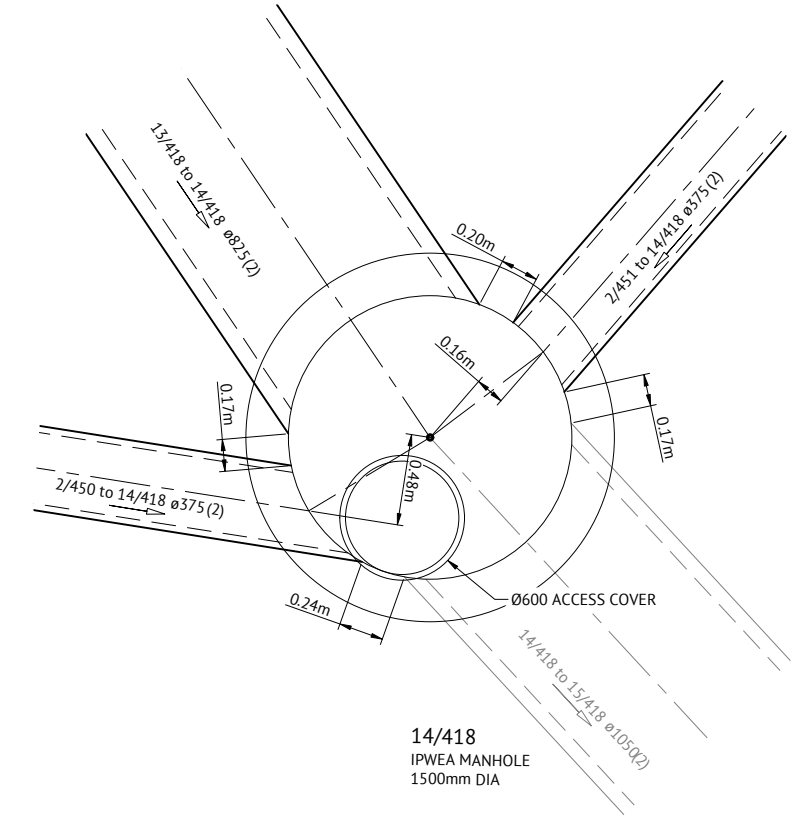
11A/418
IPWEA MANHOLE
1200mm DIA



12/418
IPWEA MANHOLE
1500mm DIA



12A/418
IPWEA MANHOLE
1350mm DIA



14/418
IPWEA MANHOLE
1500mm DIA

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

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

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
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 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2

JOB CODE
MIR-0907
SHEET NUMBER
C431
REV
B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Q	Qg	Qb	tc	I	CA	Qp	L	S	VF=Q/A	CHARTS USED	STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	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	Qg/Qo	Du/Do	S/Do	m		m	m	m	%											m	m	m	m	m	m	L/s	L/s
4/418	4A/418	1/418A 1/418 2/418 3/418	0.00	0		0.000	0.000	0	0	2.96	0	0	8.48	247	0.761	0	317	27.285	3.951	450	2	2.00	0.13	34	37				0.203	0.00	0.000		0.000	3.86	1.074	0.241	3.66	67.103	64.598	66.601	65.549	66.601	68.156		0		4/418		
4A/418	5/418	1/420 1/419 1/418A 1/418 2/418 3/418											8.10	251	1.153	0	413	49.884	1.873	525	2	1.91	0.31						0.00	1.00	1.11	0.186	0.31	0.058		0.058	1.67	0.885	0.324	2.94			65.490	64.658	65.549	67.335			4A/418
5/418	6/418	1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.38	248	1.562	0	533	43.859	5.000	525	2	2.46	0.16	34	37				0.00	1.00	1.15	0.309	0.25	0.078		0.078	4.75	2.112	0.279	4.56	64.598	62.473	64.580	62.498	64.658	65.591			5/418
6/418	7/418	1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.54	247	1.829	0	651	52.254	4.657	525	2	3.01	0.20						0.00	1.00	1.21	0.462	0.23	0.108		0.108	4.38	2.307	0.324	4.64			62.390	60.100	62.498	63.548			6/418
7/418	8/418	1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.72	245	2.221	0	783	30.980	4.928	525	2	3.62	0.12	33	34				0.00	1.00	1.29	0.667	0.23	0.151		0.151	3.65	1.140	0.362	4.92	60.669	58.239	59.949	58.818	60.100	60.936			7/418
8/418	9/418	1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.84	244	2.542	0	862	31.608	5.274	525	2	3.98	0.12						0.00	1.00	1.77	0.809	0.22	0.179		0.179	4.02	1.269	0.380	5.14			58.639	57.369	58.818	59.388			8/418
9/418	9A/418	1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.70	245	2.756	0	1152	48.367	4.468	600	2	4.07	0.18	33	34				0.00	1.00	1.94	0.847	0.24	0.204		0.204	3.52	1.701	0.440	5.19	56.481	53.076	57.166	55.465	57.369	57.817			9/418
9A/418	10/418	1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											8.87	243	3.152	0	1237	50.106	4.671	600	2	4.37	0.18						0.00	1.00	2.40	0.976	0.21	0.208		0.208	4.05	2.031	0.459	5.33			55.257	53.227	55.465	55.632			9A/418
10/418	10A/418	1/431 1/430 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.05	242	3.532	0	1349	6.634	2.987	675	2	3.77	0.03	33	34				0.00	1.00	2.32	0.725	0.22	0.159		0.159	2.57	0.171	0.514	4.61	53.076	49.870	53.068	52.897	53.227	53.707			10/418
10A/418	11/418	1/438 1/437 1/436 1/435 1/434 1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418	0.00	0		0.000	0.000	0	459	0	459	1/433	9.03	242	3.693	0	1425	31.654	3.401	675	2	3.98	0.12						0.00	1.00	2.15	0.809	0.22	0.175		0.175	2.87	0.909	0.510	4.91			52.722	51.812	52.897	53.468	459		10A/418
11/418	11A/418	1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.15	241	3.992	0	1525	39.764	2.864	675	2	4.26	0.17						0.00	1.00	2.17	0.927	0.22	0.203		0.203	3.29	1.308	0.618	4.44			51.609	50.301	51.812	52.329			11/418
11A/418	12/418	1/433B 1/433A 1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.32	239	4.329	0	1712	44.154	3.551	750	2	3.87	0.16	34	37				0.00	1.00	1.48	0.766	0.36	0.276		0.276	2.36	1.043	0.515	5.29	49.850	47.280	50.024	48.981	50.301	50.909			11A/418
12/418	12A/418	1/435 1/434 1/433B 1/433A 1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.35	239	4.615	0	1931	36.345	4.000	750	2	4.37	0.12						0.00	1.00	1.84	0.974	0.26	0.255		0.255	3.00	1.092	0.540	5.67			48.726	47.634	48.981	49.327			12/418
12A/418	13/418	1/435B 1/435A 1/435 1/434 1/433B 1/433A 1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.44	238	4.942	0	2235	24.437	4.460	825	2	4.18	0.07	34					0.00	1.00	1.83	0.892	0.23	0.204		0.204	2.42	0.592	0.527	6.20	47.260	45.958	47.430	46.837	47.634	48.028			12A/418
13/418	14/418	1/449 1/440 2/440 3/440 5/440 1/448 1/447 1/446 2/446 1/445 5/444 6/444 1/443 1/442 1/437 1/441 1/439 1/436 2/436 1/435B 1/435A 1/435 1/434 1/433B 1/433A 1/433 1/432 1/431 1/429B 1/429A 1/429 1/428 1/427A 1/427 1/426 1/425 1/424 1/423 1/422 1/421 1/420 1/419 1/418A 1/418 2/418 3/418											9.20	240	8.667	0	3678	31.190	1.262	1050	4	4.25	0.15	34	37				0.00	1.00	1.93	0.921	0.55	0.511		0.511	1.81	0.565	1.050	4.25	45.650	45.024	46.327	45.761	46.837	47.148			13/418

FOR CONSTRUCTION

08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

REVISIONS



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

DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1

JOB CODE
MIR-0907

SHEET NUMBER
C443

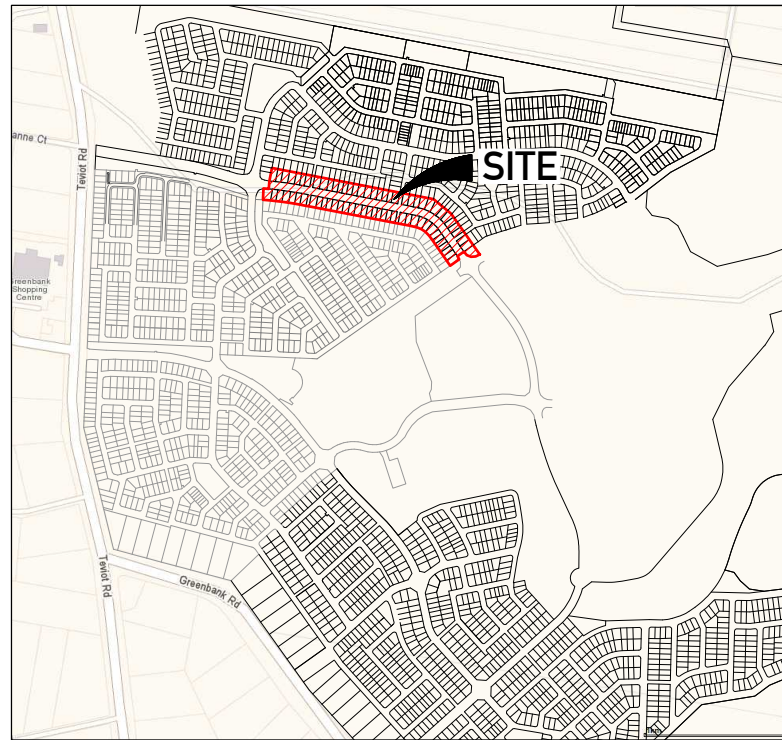
REV
B

EVERLEIGH PRECINCT 9.7A, B, C, D 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 9.7A, B, C, D SUBDIVISION DEVELOPMENT	
SUBDIVIDER	Mirvac QLD Pty Ltd	
APPLICATION No.	DEV 2020/1160	
SP DELEGATE APPROVAL DATE	26/08/21	
COUNCIL DA APPROVAL No.	-	
DRAWING/PLAN No.	C510	
No. OF ALLOTMENTS	72	
AREA ha	4.73ha	
LENGTH OF SEWERS	DN150 uPVC SN8	971.33m
	DN225 uPVC SN8	272.96m

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- 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.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN100 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- 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.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- REFER TO BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SAFE SHORING TO ALLOW SEWER MAINTENANCE SECTION TO CARRY OUT LIVE SEWER WORK.
- 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.
- CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1100 SERIES.
- CONSTRUCT MAINTENANCE STRUCTURES TO SEQ-SEW-1300 SERIES.
- CONSTRUCT BULKHEADS TO SEQ-SEW-1206-1.
- INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS.
- CALCAREOUS CONCRETE IN MAINTENANCE HOLES REQUIRED IN ACCORDANCE WITH SEQ WS&S D&C CODE REQUIREMENTS.
- 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

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 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.
- 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.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST

SOIL

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

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

REHABILITATION

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

SAFETY

- 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.

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C520	SEWERAGE LONG SECTIONS - SHEET 1
C521	SEWERAGE LONG SECTIONS - SHEET 2
C522	SEWERAGE LONG SECTIONS - SHEET 3
C530	SEWERAGE NOTES AND DETAILS

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
01/12/2022	B	AMENDED PIPE LENGTH	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



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

DESIGNED
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 CHECKED
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 PROJECT DIRECTOR

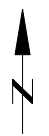
PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:10000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LOCALITY PLAN & NOTES

JOB CODE
MIR-0907
 SHEET NUMBER
C500
 REV
C



LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BODY WITH DWAY. 1.2m OFFSET FROM SIDE BODY 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)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY
- FALL ARROW
- PADMOUNT TRANSFORMER

LEGEND - CONSTRUCTED

- Ø100mm CONSTRUCTED PROPERTY CONNECTION
- GRAVITY SEWER
- MAINTENANCE STRUCTURE
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).



LAYOUT PLAN
SCALE 1:500

FOR SEWERAGE RETICULATION
NOTES REFER DWG No. C500.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

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

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.

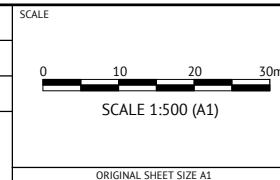
PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH TO INVERT OF PROPERTY CONNECTION AT 1.5m, UNLESS OTHERWISE STATED.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION		KK	PB
18/10/2022	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP

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

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE LAYOUT PLAN - SHEET 1

JOB CODE
MIR-0907
SHEET NUMBER
C510
REV
B

MAINTENANCE HOLE / SHAFT NO.	TE1/3A	1/3A	2/3A	3/3A	4/3A	HB1/3A	HB2/3A	5/3A	HB3/3A	HB4/3A	6/3A	7/3A	HB5/3A	HB6/3A	8/3A	TE2/3A	1/3A	1/4	HB1/4	HB2/4	2/4	HB3/4		
MH / MS COVER TYPE	B	B	B	B	B	J	LRB	LRB	J	LRB	LRB	J	B	LRB	LRB	B	B	B	J	LRB	LRB	J	LRB	
MH / MS TYPE	END	A	A	A	A	J	LRB	LRB	J	LRB	LRB	J	A	LRB	LRB	A	A	J	LRB	LRB	J	LRB		
MH DROP TYPE	V	V	V	V	V	V			V			V	V	V	V	Y	V	V				V	LRB	
LINE NO.	4	3A	5	3A	6	3A			3A			3A	8	3A		11	3A	4				4	LRB	
PROPERTY CONNECTION DEPTH	1.250	1.350	1.350	1.250	1.250	1.250	1.250	1.250	1.400	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	
PROPERTY CONNECTION INVERT LEVEL	45.052	45.014	45.327	46.383	46.887	47.462	47.993	48.483	48.977	49.607	50.137	50.697	51.201	51.814				45.683	46.133	46.509	46.959	47.408	47.957	49.036
PROPERTY CONNECTION TYPE	B	B	D	D	D	B	B	B	B	B	B	B	B	B	B	B	B	D	B	B	B	B	B	
LOT NO.	3381	3384	3385	3386	3387	3388	3389	3390	3391	3392	3393	3394	3395	3396				3380	3379	3378	3377	3376	3375	3374

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

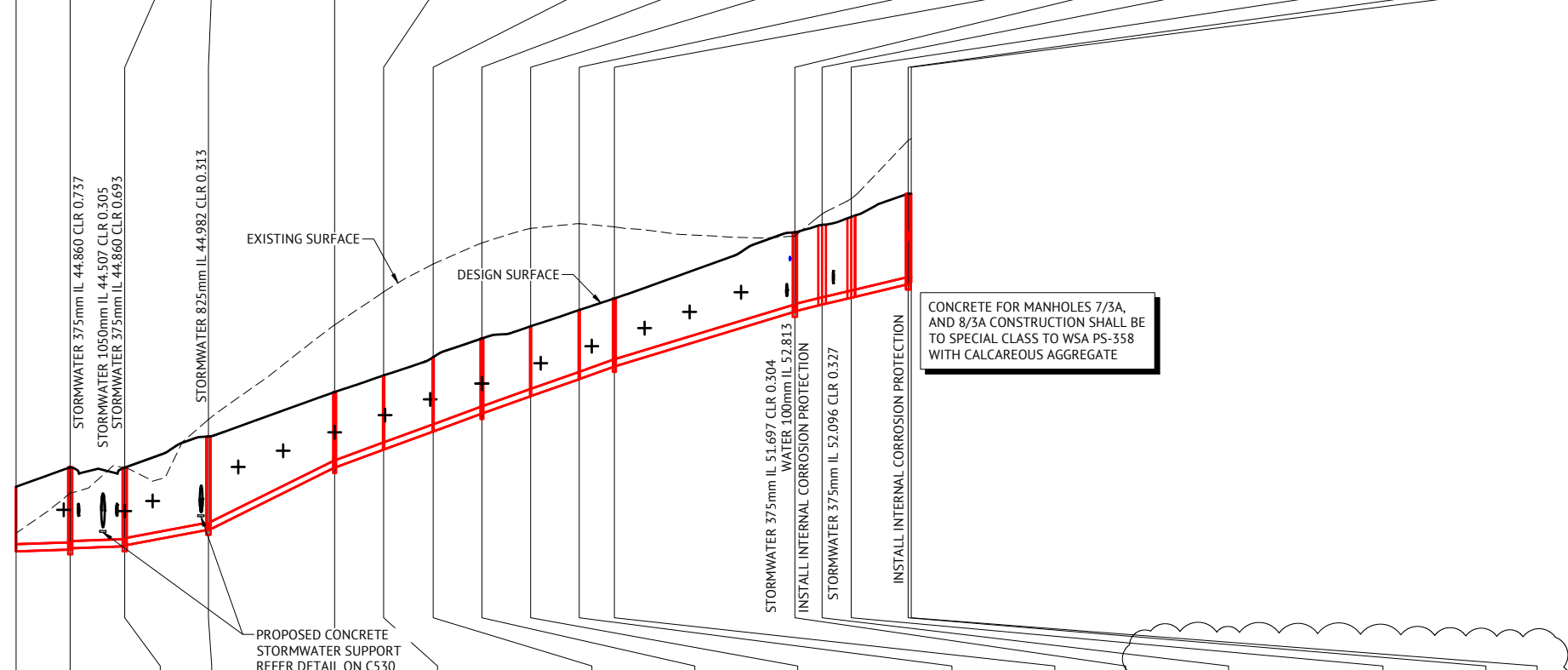
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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

- 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		37.000																																			
PROPERTY DESCRIPTION		RR																																			
PIPE SIZE (mm), CLASS		DN225 uPVC SN8																																			
GRADE (1 IN X)		290	290	56	21	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	33	43	43	43	43	43	43	43	100							
LENGTH		16.808	16.950	26.042	39.250	15.009	0.222	0.222	14.995	0.193	0.192	14.955	14.955	0.193	0.192	14.738	0.189	0.188	10.749	56.142	7.283	1.178	1.178	6.714	1.178	1.178	16.500	1.000									
EMBEDMENT TYPE		TYPE 3																																			
DEPTH OF INVERT BELOW FSL		2.012	2.561	2.521	2.449	2.409	2.906	2.886	2.360	2.341	2.305	2.305	2.304	2.306	2.312	2.318	2.346	2.326	2.174	2.173	2.150	2.149	2.149	2.128	2.108	2.478	2.455	2.497	2.515	2.529	2.826	2.751	2.759				
INVERT LEVEL (IL)		43.758	43.816	43.856	43.914	43.954	44.423	44.443	46.352	46.372	46.916	46.924	46.952	47.476	47.483	47.489	48.031	48.051	48.575	48.582	48.589	49.104	49.111	49.118	49.494	49.514	51.194	51.234	51.402	51.612	51.639	52.049	52.124	52.134			
FINISHED SURFACE LEVEL (FSL)		45.770	46.377	46.364	46.364	46.364	47.329	47.329	48.712	48.712	49.221	49.229	49.236	49.782	49.795	49.807	50.377	50.377	50.749	50.755	50.762	51.254	51.260	51.267	51.622	51.622	53.671	53.881	53.881	53.908	53.911	54.109	54.154	54.195	54.875	54.875	54.875
EXISTING SURFACE LEVEL (ESL)		45.770	45.574	46.342	46.342	46.342	47.856	47.856	50.796	51.810	51.810	51.825	51.839	52.678	52.688	52.697	53.345	53.345	53.789	53.793	53.795	53.943	53.943	53.942	53.844	53.844	55.556	54.153	54.153	54.242	54.313	54.648	54.722	54.814	56.527	56.527	56.584
CHAINAGE (CH)		0.000	16.808	33.758	59.800	99.050	114.059	114.281	114.503	129.498	129.691	129.884	144.839	159.795	159.988	160.180	174.918	175.107	175.295	186.044	242.185	249.468	250.646	251.824	258.538	259.716	260.894	277.394	278.394								

DATUM RL		36.000																																						
PROPERTY DESCRIPTION		RR																																						
PIPE SIZE (mm), CLASS		DN150 uPVC SN8																																						
GRADE (1 IN X)		24	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26				
LENGTH		65.723	12.674	0.193	0.193	12.555	0.193	0.193	12.748	12.748	0.193																													
EMBEDMENT TYPE		TYPE 3																																						
DEPTH OF INVERT BELOW FSL		2.561	2.486	2.057	2.037	2.051	2.051	2.052	2.127	2.133	2.139	2.207	2.187	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061	2.061		
INVERT LEVEL (IL)		43.891	46.682	46.702	47.184	47.191	47.199	47.676	47.683	47.691	48.175	48.195	48.692	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	48.700	
FINISHED SURFACE LEVEL (FSL)		46.377	48.739	46.702	47.184	47.191	47.199	49.803	49.816	49.829	50.382	50.382	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754	50.754
EXISTING SURFACE LEVEL (ESL)		45.574	50.275	50.961	50.970	50.978	51.550	51.540	51.550	51.550	51.550	51.550	52.136	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	52.454	
CHAINAGE (CH)		0.000	65.723	78.398	78.590	78.783	91.338	91.531	91.724	104.472	117.220	117.413																												

LINE 3A 4

FOR CONSTRUCTION			<p>BRISBANE OFFICE LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	<p>DESIGNED KLYNT KIWANG</p> <p>CHECKED ANDREW LANGDON</p> <p>PROJECT MANAGER NICK SOMERVILLE</p> <p>PROJECT DIRECTOR PATRICK BRADY</p>	<p>SCALE</p> <p>HORIZONTAL 1:1000 (A1)</p> <p>VERTICAL 1:100 (A1)</p> <p>ORIGINAL SHEET SIZE A1</p>	<p>CLIENT MIRVAC QLD PTY LTD</p> <p>PROJECT EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT</p> <p>LOCATION TEVIOT ROAD, GREENBANK</p> <p>SHEET TITLE SEWERAGE LONG SECTIONS - SHEET 1</p>	<p>JOB CODE MIR-0907</p> <p>SHEET NUMBER C520</p> <p>REV C</p>
<p>08/06/2023 C ISSUED FOR CONSTRUCTION - UPDATED LINE 3A</p> <p>01/12/2022 B AMENDED PROPERTY CONNECTION TYPES AND NOTE, ADDED CORROSION PROTECTION NOTE</p> <p>18/10/2022 A ISSUED FOR APPROVAL</p> <p>DATE REV DESCRIPTION REVISIONS</p>	<p>KK PB</p> <p>KK PB</p> <p>KK PB</p> <p>REC APP</p>						

MAINTENANCE HOLE / SHAFT NO.	HB3/4	HB4/4	3/4	4/4	5/4	6/4	HB5/4	HB6/4	7/4
MH / MS COVER TYPE			B	B	B	B			B
MH / MS TYPE	LRB	LRB	J	J	J	J	LRB	LRB	J
MH DROP TYPE			V	V	V	V			
LINE NO.			4	4	4	4			
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	49.608	50.444	51.176	51.679	52.615	53.123	53.598	54.154	54.674
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B	B	B
LOT NO.	3373	3372	3371	3370	3369	3368	3367	3366	3365

MAINTENANCE HOLE / SHAFT NO.	2/3A	1/5	3/3A	1/6	TE1/6
MH / MS COVER TYPE	B	B	B	B	B
MH / MS TYPE	A	A	A	A	TE
MH DROP TYPE	V	V	V	V	V
LINE NO.	5	3A	6	3A	7
PROPERTY CONNECTION DEPTH	1.342	1.342	1.342	1.342	1.342
PROPERTY CONNECTION INVERT LEVEL	44.374	44.374	44.374	44.374	44.374
PROPERTY CONNECTION TYPE	A	A	A	A	A
LOT NO.	3383	3383	3383	3383	3383

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

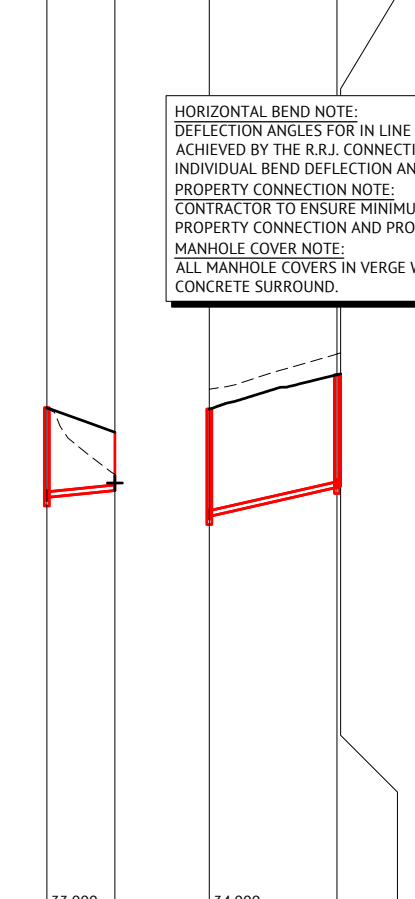
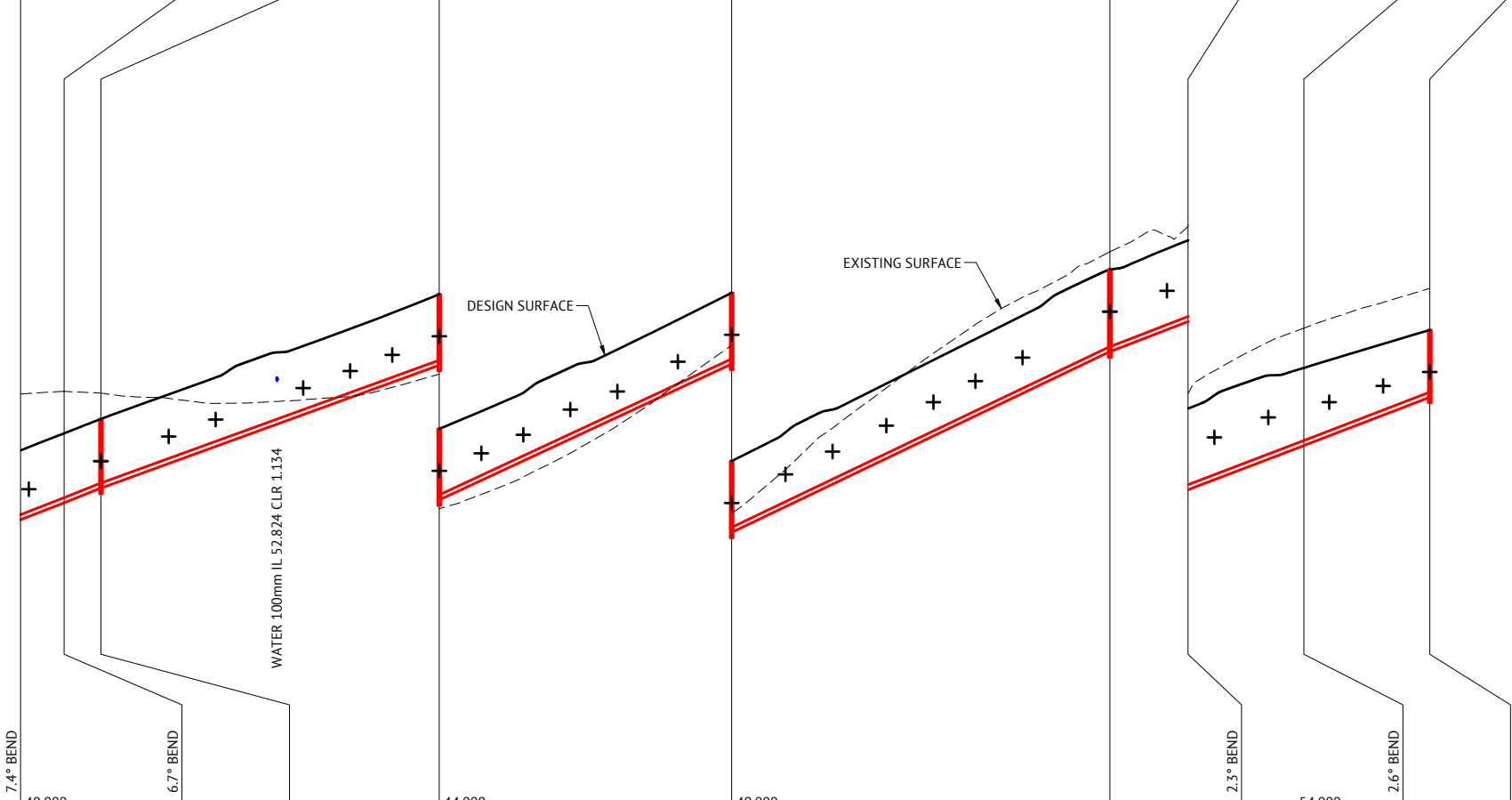
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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

- 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	40.000	44.000	49.000	54.000
PROPERTY DESCRIPTION			RR	
PIPE SIZE (mm), CLASS			DN150 uPVC SN8	
GRADE (1 IN X)	26	26	21	26
LENGTH	0.193	12.569	112.500	37.401
EMBEDMENT TYPE			TYPE 3	
DEPTH OF INVERT BELOW FSL	2.061	2.061	2.130	2.009
INVERT LEVEL (IL)	48.700	48.707	57.317	66.331
FINISHED SURFACE LEVEL (FSL)	50.761	50.769	59.447	68.340
EXISTING SURFACE LEVEL (ESL)	52.437	52.439	57.888	69.577
CHAINAGE (CH)	117.413	130.526	328.954	536.619

DATUM RL	33.000	34.000	37.401
PROPERTY DESCRIPTION		RR	
PIPE SIZE (mm), CLASS		DN150 uPVC SN8	
GRADE (1 IN X)	100	45	36
LENGTH	18.000	33.750	1.000
EMBEDMENT TYPE		TYPE 3	
DEPTH OF INVERT BELOW FSL	2.449	2.369	1.542
INVERT LEVEL (IL)	43.914	44.503	45.294
FINISHED SURFACE LEVEL (FSL)	46.364	48.237	48.261
EXISTING SURFACE LEVEL (ESL)	43.994	45.246	45.294
CHAINAGE (CH)	0.000	33.750	34.750

LINE

4

5

6

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
01/12/2022	B	AMENDED PROPERTY CONNECTION TYPES	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

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

DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 SEWERAGE LONG SECTIONS - SHEET 2

JOB CODE
 MIR-0907
 SHEET NUMBER
 C521
 REV
 C

MAINTENANCE HOLE / SHAFT NO.	1/6	1/7	TE1/7
MH / MS COVER TYPE	B	B	
MH / MS TYPE	A	J	TE
MH DROP TYPE	V	V	
LINE NO.	7	6	7
PROPERTY CONNECTION DEPTH			
PROPERTY CONNECTION INVERT LEVEL			
PROPERTY CONNECTION TYPE			
LOT NO.			

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)

LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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

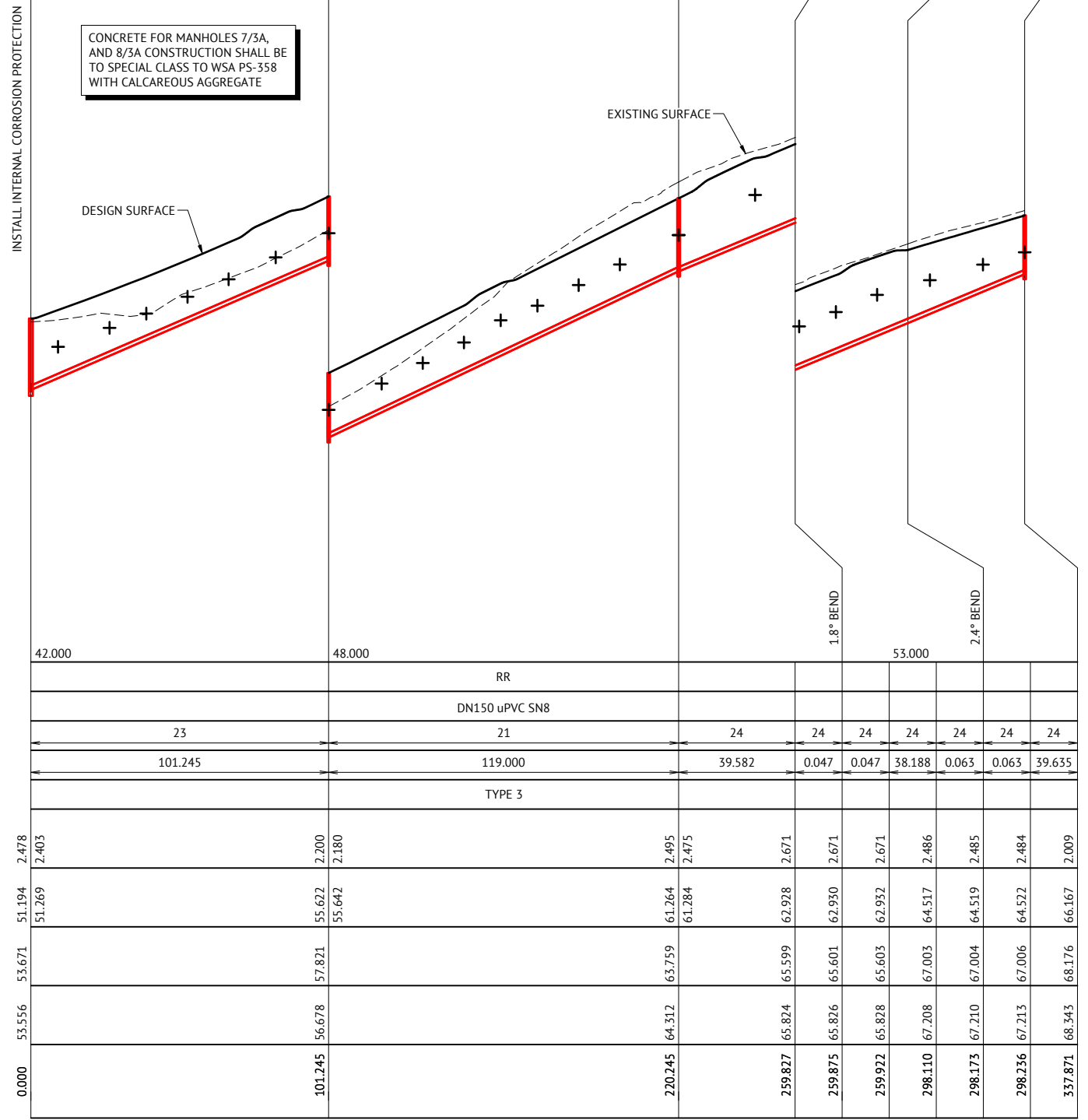
PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

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

DATUM RL	35.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100 50
LENGTH	40.592 1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.991 2.911 1.919 1.899 1.879
INVERT LEVEL (IL)	45.246 45.326 45.731 45.751 45.771
FINISHED SURFACE LEVEL (FSL)	48.237 47.650 47.650 47.650 47.650
EXISTING SURFACE LEVEL (ESL)	48.784 45.904 45.927 45.927 45.927
CHAINAGE (CH)	0.000 40.592 41.592

LINE 7

7/3A	1/8	2/8	HB1/8	HB2/8	3/8
B	B	B			B
A	J	J	LRB	LRB	J
V	V	V			
8	8	8			
3A					
1.250	1.250	1.250	1.250	1.250	1.250
52.712	53.356	53.840	54.411	55.007	55.750
56.571	57.461	58.160	58.860	59.613	60.110
60.809	61.509	62.509	63.873	64.404	64.894
65.478	65.977	66.505	66.926		
3397	3398	3399	3400	3401	3402
3403	3404	3405	3406	3407	3408
3409	3410	3411	3412	3413	3414
3415	3416	3417	3418		



8/3A	TE1/11
B	TE
A	
V	
11	
3A	
1.250	
52.712	
56.571	
60.809	
61.509	
62.509	
63.873	
64.404	
64.894	
65.478	
65.977	
66.505	
66.926	
3417	
3418	
42.000	
RR	
DN225 uPVC SN8	
100	
1.000	
TYPE 3	
2.478	
2.403	
2.200	
2.180	
2.495	
2.475	
2.671	
2.671	
2.671	
2.486	
2.485	
2.484	
2.009	
2.826	
1.427	
1.452	
2.826	
52.049	
53.448	
53.458	
54.875	
54.910	
56.623	
56.527	
58.343	
68.176	
68.343	
68.176	
66.167	
0.000	
1.000	

LINE 11

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

08/06/2023	C	UPDATED LINE 11	KK	PB
01/12/2022	B	AMENDED PROPERTY CONNECTION TYPES AND LINE 11	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

Premise

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

DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
SEWERAGE LONG SECTIONS - SHEET 3

JOB CODE
MIR-0907

SHEET NUMBER
C522

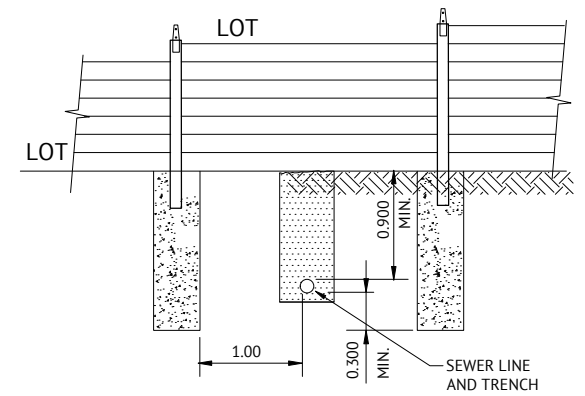
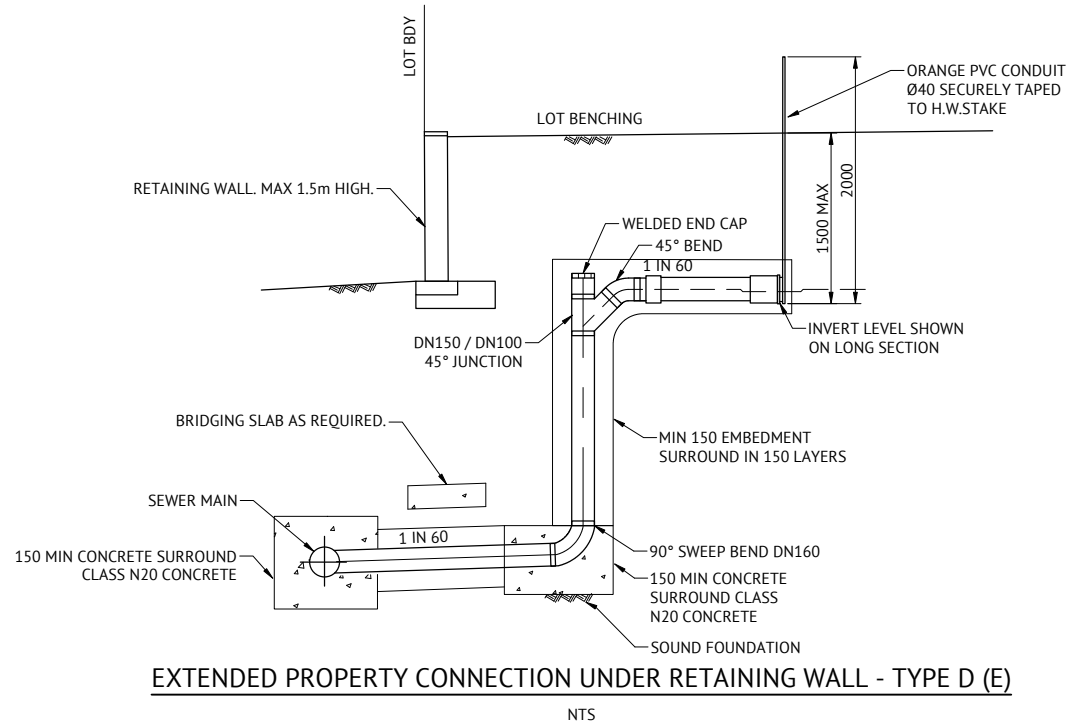
REV
C

LIVE SEWER WORKS

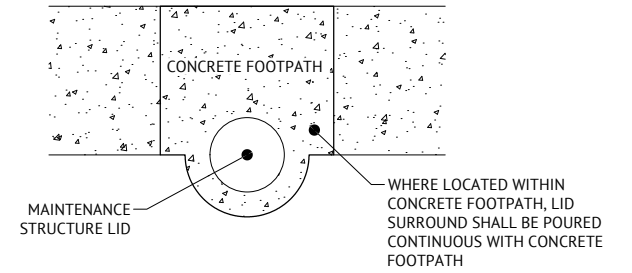
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/3A, CONSTRUCTOR TO LAY NEW LINE 3A. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	225	TE1/3A	END	-	3382	45.770	45.770	43.758	2.012
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 3A 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.

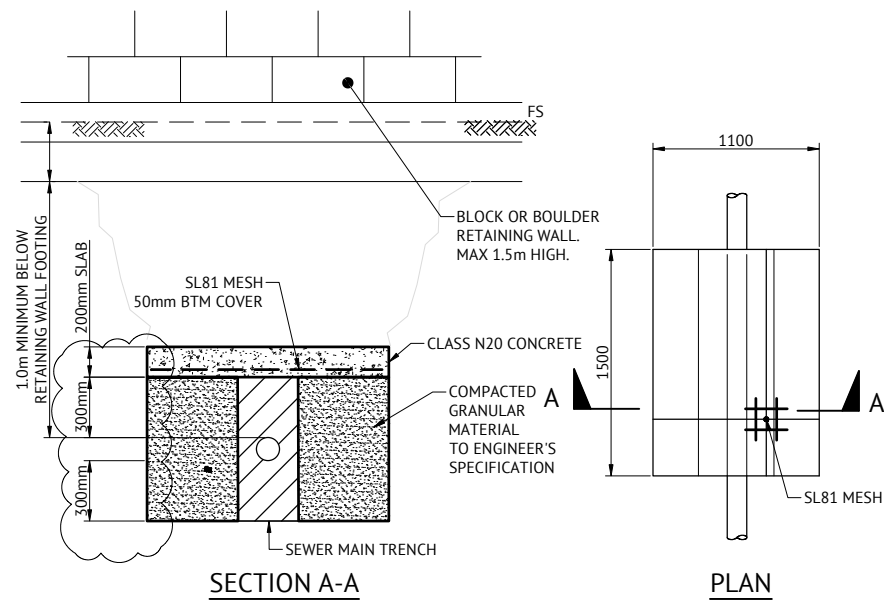
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE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



SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL



TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL



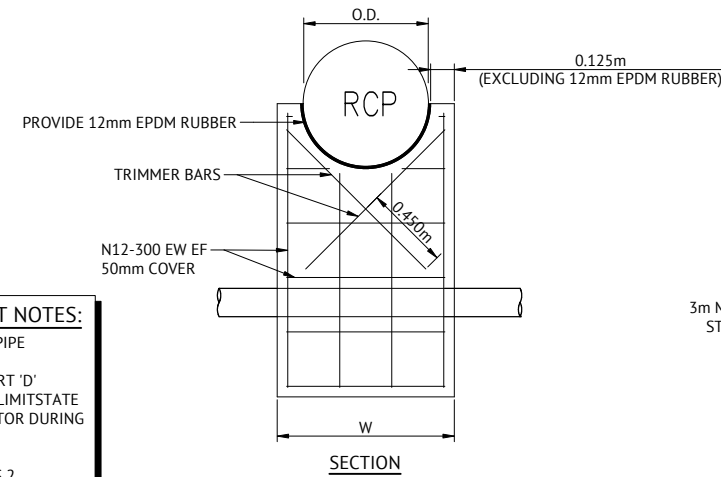
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

GENERAL CONCRETE STORMWATER SUPPORT NOTES:

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

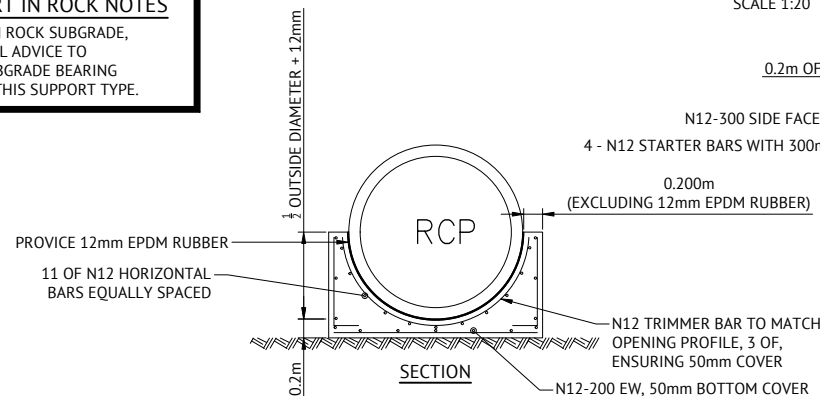
CONCRETE STORMWATER SUPPORT IN ROCK NOTES

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



CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40

STRUCTURAL DETAILS APPROVED	DATE
<i>R. Alzate</i>	16/06/2023
RAMIL ALZATE	RPEQ 19671

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	UPDATED DETAIL	KK PB
18/10/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
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DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

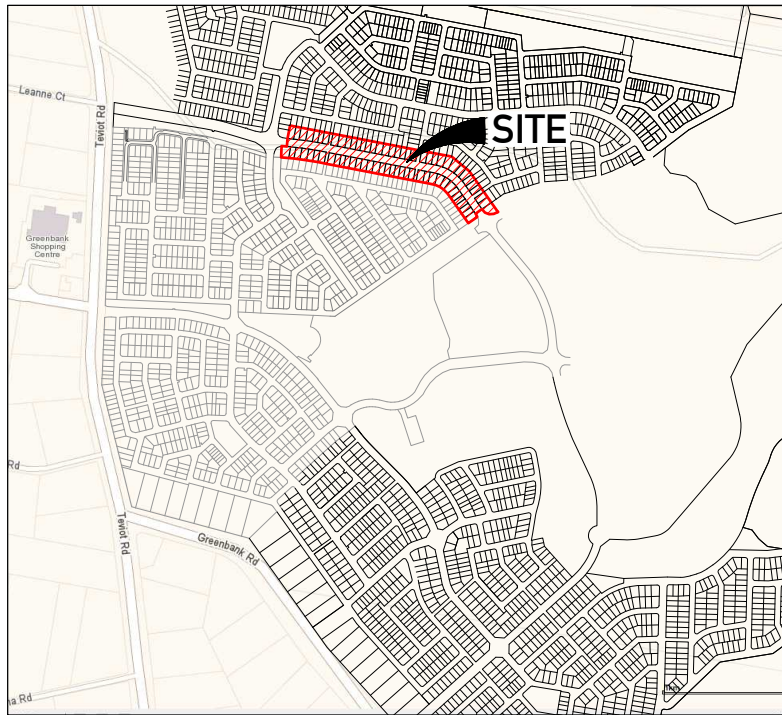
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE NOTES AND DETAILS

JOB CODE
MIR-0907
SHEET NUMBER
C530
REV
B

EVERLEIGH PRECINCT 9.7A, B, C, D 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 - SHEET 1
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2
C620	WATER LIVE CONNECTION DETAILS

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- 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
- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS, WHERE POSSIBLE
- 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.
- 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.
- CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
- 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.
- INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
- INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.
- WATER SERVICE CONNECTIONS INCLUSIVE OF WATER METER BOXES ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS SEQ-WAT-1110-1 & SEQ-WAT-1110-2 AND OTHER RELEVANT STANDARD DRAWINGS FROM SEQ DESIGN AND CONSTRUCTION CODE.
- TERMINATE ALL WATER SERVICES AFTER INSTALLATION OF THE BALL VALVE (PRIOR TO THE WATER METER). THE APPLICANT IS NOT REQUIRED TO MAKE AN APPLICATION TO COUNCIL FOR THE PROVISION OF A WATER METER AT THIS TIME.
- THE POLYETHYLENE SERVICE LINE MUST COMPLY WITH AS/NZ4130 SERIES 1 DN20 PN16.
- TAPPING BANDS MUST BE USED WHEN PROVIDING CONNECTION, UNLESS OTHERWISE APPROVED BY COUNCIL.
- PROPERTY SERVICES WITHIN ANY FOOTWAY SHALL BE POSITIONED AT 90+/-5 DEGREES TO THE WATER MAIN OR KERB. WHERE REQUIRED TO CROSS THE ROAD CARRIAGEWAY, PROPERTY SERVICES SHALL BE LOCATED WITHIN THE SERVICE DUCTS (CONDUITS) POSITIONED AT 90+/-5 DEGREES TO THE ROAD CARRIAGEWAY OR FROM SIDE BOUNDARY TO SIDE BOUNDARY AND EXTENDING BEHIND EACH KERB IN ACCORDANCE WITH CLAUSE 5.11.3 OF THE SOUTH EAST

QUEENSLAND WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE. THE CONDUIT SHALL HAVE A MAXIMUM LENGTH OF 25m AND EXTEND 300mm BEYOND THE BACK OF THE KERB OR CONCRETE/PAVED AREA.

- WHERE PRACTICABLE, PROPERTY SERVICE CONNECTION POINTS MUST BE LOCATED 300mm FROM THE RESIDENTIAL PROPERTY SIDE BOUNDARY ON THE OPPOSITE SIDE OF THE ALLOTMENT TO THE ELECTRICAL SERVICE PILLAR-BOX. SERVICES MUST BE LOCATED AT LEAST 1.0m FROM ALL ELECTRICAL SOURCES AND CLEAR OF EXISTING OR FUTURE DRIVEWAYS. PROPERTY SERVICES LAID PARALLEL TO THE FOOTPATH AND/OR PROPERTY BOUNDARY ARE NOT PERMITTED (SEQ CODE CLAUSE 5.11.5). TERMINATE ALL WATER SERVICES AFTER INSTALLATION OF THE BALL VALVE (PRIOR TO THE WATER METER)

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 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.
- 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.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

- PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- 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.
- ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
- ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.

CONSTRUCTION REQUIREMENTS

- 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.
- PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
- 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.
- 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



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB



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

DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR

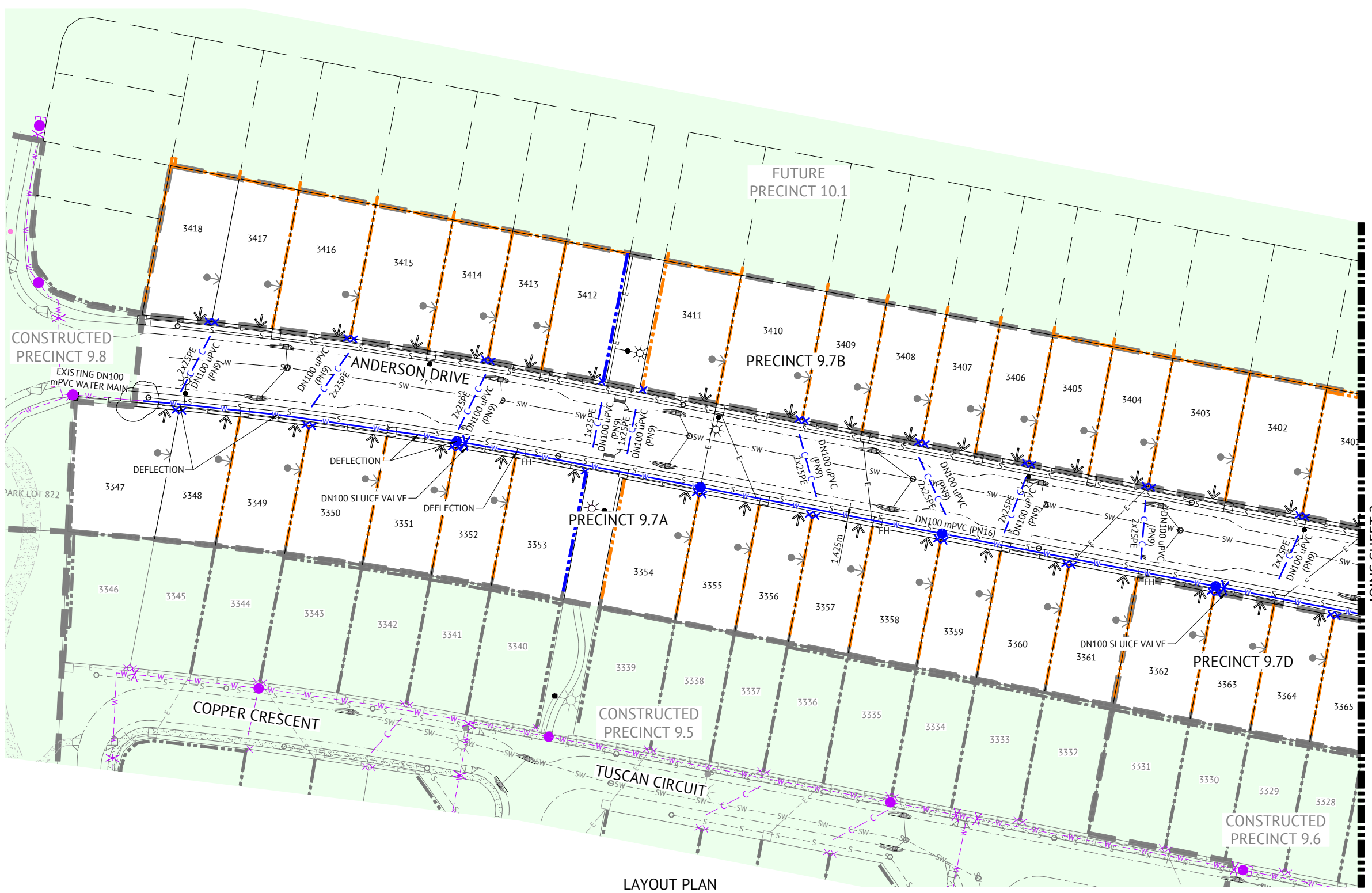
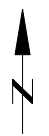
PATRICK BRADY RPEQ 7112

SCALE

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 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE
MIR-0907
 SHEET NUMBER
C600
 REV
B



- LEGEND - PROPOSED**
- POTABLE WATERMAIN
 - POTABLE WATER RETICULATION SERVICE WITHIN DN100 uPVC (PN9) CONDUIT
 - WATER SERVICES & WATER METER BOX POINT, METER BY OTHERS
 - SLUICE VALVE
 - FIRE HYDRANT
 - TEST POINT
 - DEAD END
 - DEFLECTION
 - TRUNCATIONS 5 DEGREES OR LESS
 - LOT NUMBER
 - STORMWATER
 - GRAVITY SEWER
 - ELECTRICAL
 - ZERO LOT BOUNDARY
 - PREFERRED DRIVEWAY LOCATION (BY OTHERS)
 - SITE BOUNDARY
 - PROPOSED CONCRETE SLEEPER RETAINING WALL
 - PROPOSED CONCRETE PANEL RETAINING WALL
 - PROPOSED CONCRETE FOOTPATH & KERB RAMP
 - PADMOUNT TRANSFORMER

- LEGEND - CONSTRUCTED**
- WATER
 - SLUICE VALVE
 - FIRE HYDRANT
 - TEST POINT
 - DEAD END
 - WATER METER
 - STORMWATER
 - GRAVITY SEWER
 - ELECTRICAL

LAYOUT PLAN
SCALE 1:500

FOR WATER RETICULATION NOTES, REFER DWG No. C600

PRECINCT 9.7 AND PRECINCT 9.8 WORKS TO BE CONSTRUCTED TOGETHER. REFER PREMISE PRECINCT 9.8 DRAWING SET MIR-0908.

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.

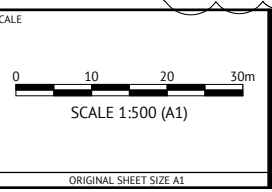
AS CONSTRUCTED DETAILS FOR AMEND.
I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS
SIGNED: _____ DATE: _____
NAME of SIGNATORY: _____
RPEQ No. or LICENCE: _____
COMPANY NAME: _____
START DATE: _____

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/08/2023	C	REMOVED LIVE CONNECTION TO PRECINCT 9.8 AND ADDED NOTE	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB

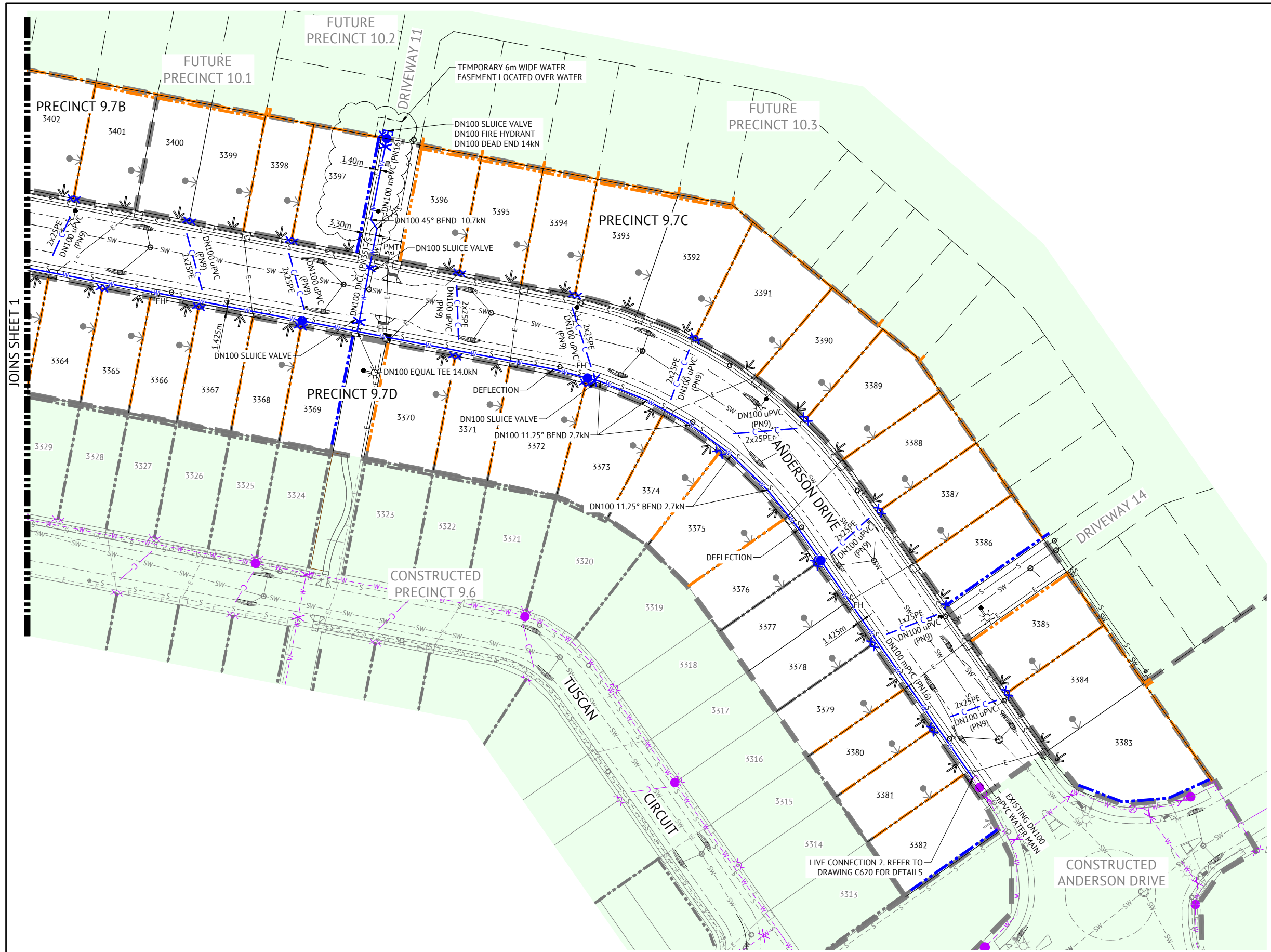
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
WATER RETICULATION LAYOUT PLAN - SHEET 1

JOB CODE
MIR-0907
SHEET NUMBER
C610
REV
C



- ### LEGEND - PROPOSED
- POTABLE WATERMAIN
 - POTABLE WATER RETICULATION SERVICE WITHIN DN100 uPVC (PN9) CONDUIT
 - WATER SERVICES & WATER METER BOX POINT, METER BY OTHERS
 - SLUICE VALVE
 - FIRE HYDRANT
 - TEST POINT
 - DEAD END
 - DEFLECTION
 - TRUNCATIONS 5 DEGREES OR LESS
 - LOT NUMBER
 - STORMWATER
 - GRAVITY SEWER
 - ELECTRICAL
 - ZERO LOT BOUNDARY
 - PREFERRED DRIVEWAY LOCATION (BY OTHERS)
 - SITE BOUNDARY
 - PROPOSED CONCRETE SLEEPER RETAINING WALL
 - PROPOSED CONCRETE PANEL RETAINING WALL
 - PROPOSED CONCRETE FOOTPATH & KERB RAMP
 - PADMOUNT TRANSFORMER
- ### LEGEND - CONSTRUCTED
- WATER
 - SLUICE VALVE
 - FIRE HYDRANT
 - TEST POINT
 - DEAD END
 - WATER METER
 - STORMWATER
 - GRAVITY SEWER
 - ELECTRICAL

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

LAYOUT PLAN
 SCALE 1:500

LOTS 3382 AND 3383 METERS PROVIDED IN PRECINCT 16.3 WORKS

FOR WATER RETICULATION NOTES, REFER DWG No. C600

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION - UPDATED WATER MAIN ALIGNMENT NEAR DRIVEWAY 11	KK PB
18/10/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

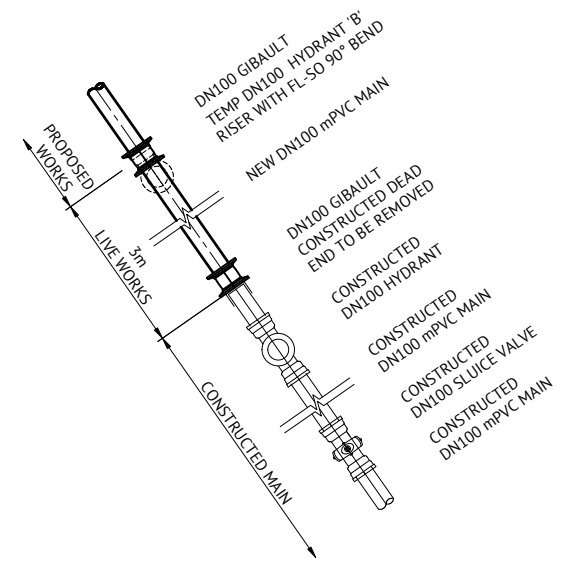
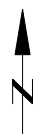
Premise
 BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

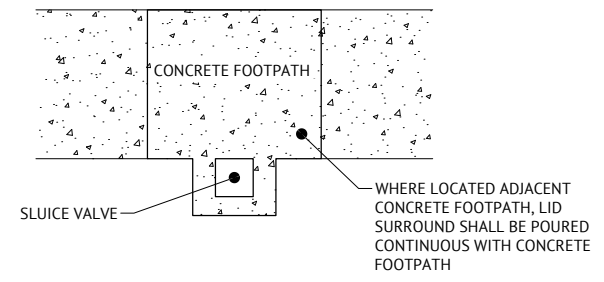
SCALE
 0 10 20 30m
 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 WATER RETICULATION LAYOUT PLAN - SHEET 2

JOB CODE
 MIR-0907
 SHEET NUMBER
 C611
 REV
 B



LIVE CONNECTION 2 DETAIL
SCALE 1:25



TYPICAL SLUICE VALVE ADJACENT CONCRETE FOOTPATH DETAIL
NTS

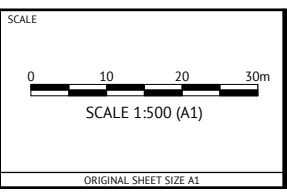
- LIVE CONNECTION NOTES:**
1. LIVE CONNECTIONS BY LOGAN WATER
 2. LIVE CONNECTION IN ACCORDANCE WITH SEQ-WAT-1303-1
 3. THRUST BLOCKS NOT SHOWN FOR CLARITY.
 4. PRE-CHLORINATION FITTINGS AS REQUIRED.

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	REVISIONS
01/08/2023	C	REMOVED LIVE CONNECTION 1	KK	PB	
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK	PB	
18/10/2022	A	ISSUED FOR APPROVAL	KK	PB	

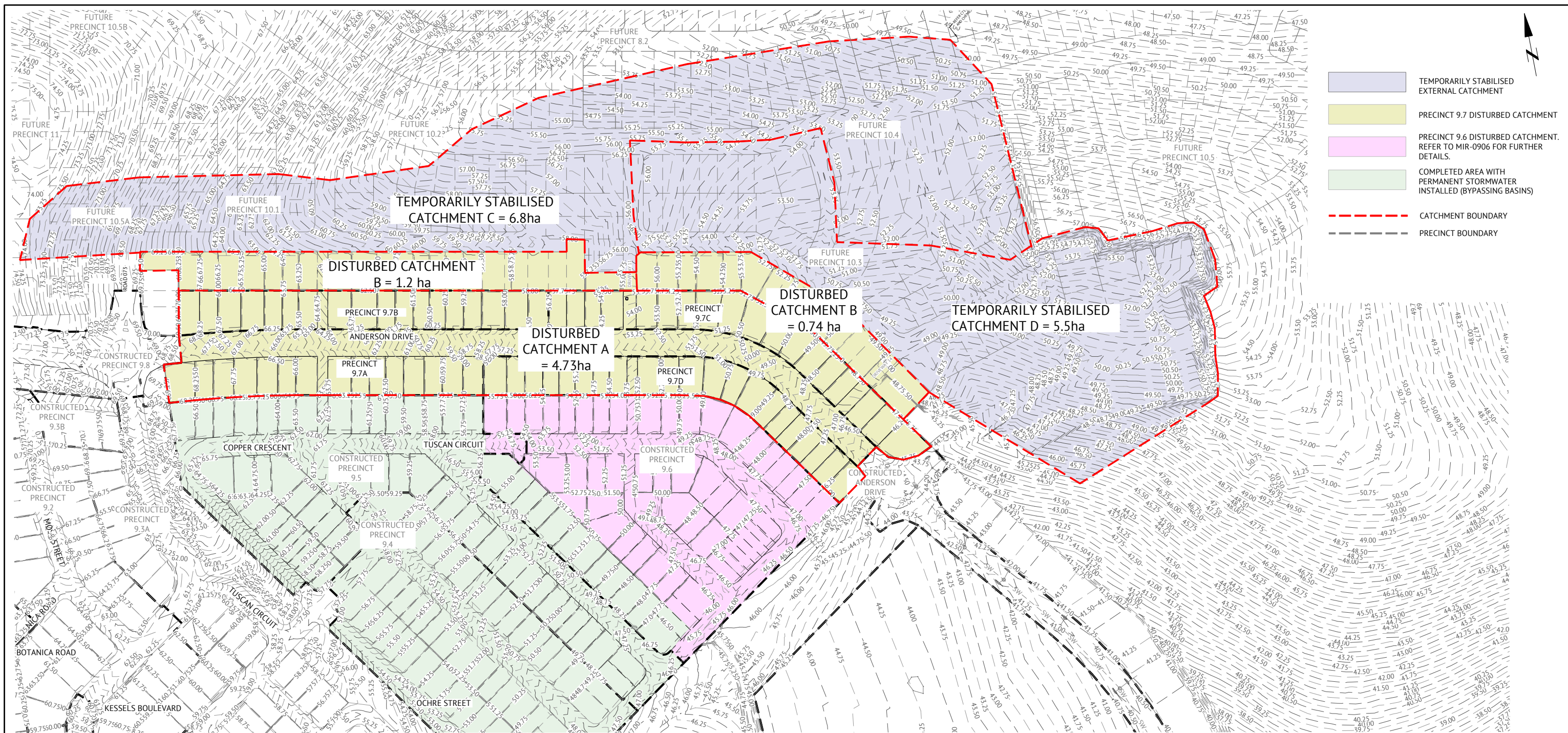
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
WATER LIVE CONNECTION AND TYPICAL DETAILS

JOB CODE
MIR-0907
SHEET NUMBER
C620
REV
C



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	134.9	152.2	128.3	77.5	71.7	65.8	46.7	35.9	34.3	78.9	97.8	125.7
EROSION RISK	HIGH	HIGH	HIGH	MODERATE	MODERATE	MODERATE	MODERATE	LOW	LOW	MODERATE	MODERATE	HIGH
	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%)		
AUG. SEPT.	LOW	8	30 (70%)		
APR. MAY. JUN. JUL. OCT. NOV.	MODERATE	6	20 (70%)	X	
JAN. FEB. MAR. DEC.	HIGH	4	10 (75%)	X	X
	EXTREME	2	10 (80%)	X	X

NOTE:
CLEARING TO PRECINCT 9.7 EXTENTS PREVIOUSLY COMPLETED AS PART OF PRIOR DEVELOPMENT STAGES. REFERENCE TO BE MADE TO PRECINCT 9.4 ESCP DRAWINGS PRESENTING OVERALL ESC STRATEGY FOR CATCHMENTS COMPRISING PRECINCT 9.7.

NOTE:
FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
T. CLARK (CPESC No. 6089) *T. Clark*

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK PB
13/09/2022	A	ISSUED FOR APPROVAL	DW PB
			REC APP

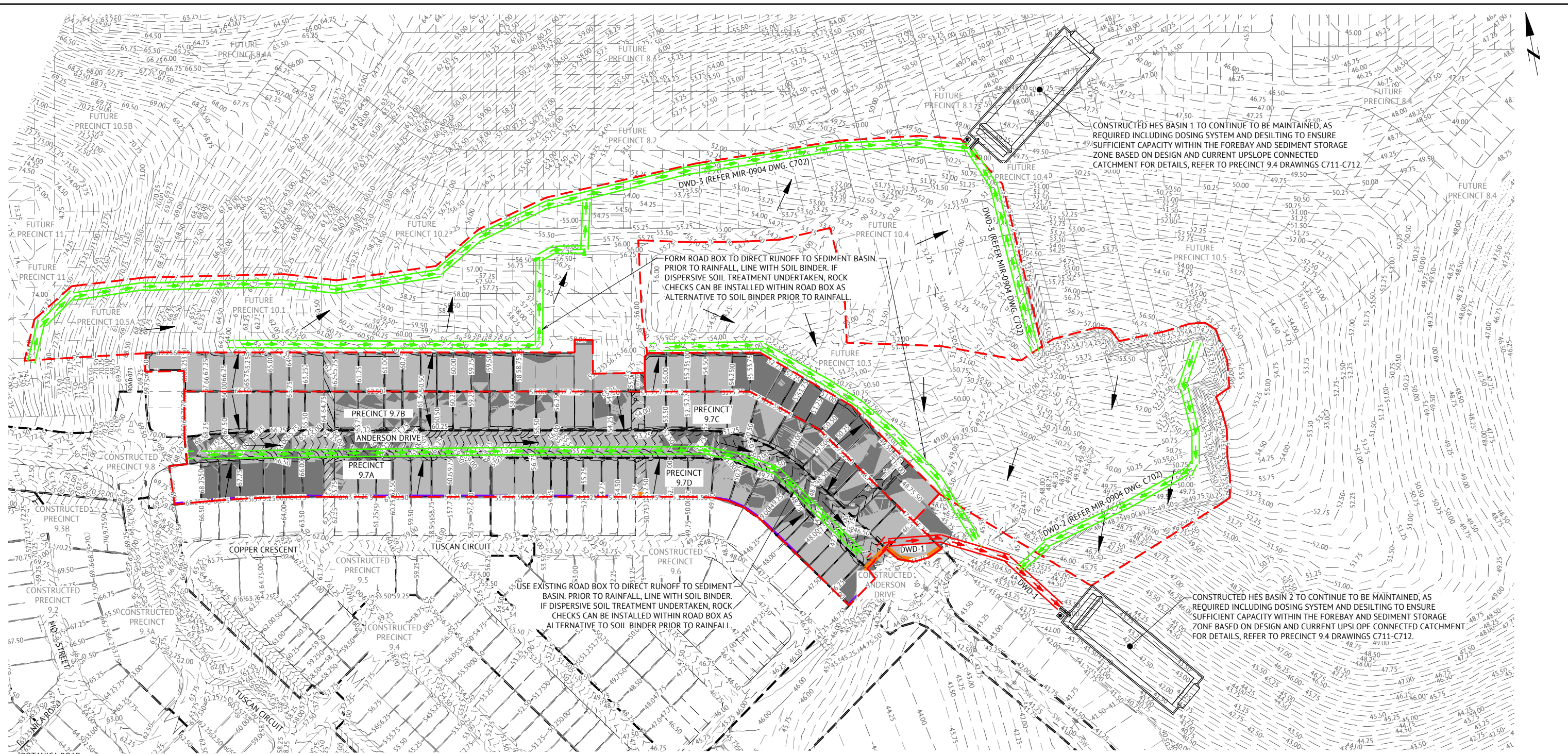
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
MARK DAVIES
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

SCALE
0 30 60 90m
SCALE 1:1500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
OVERALL EROSION & SEDIMENT CONTROL KEY PLAN

JOB CODE
MIR-0907
SHEET NUMBER
C700
REV
B



CONSTRUCTED HES BASIN 1 TO CONTINUE TO BE MAINTAINED, AS REQUIRED INCLUDING DOSING SYSTEM AND DESILTING TO ENSURE SUFFICIENT CAPACITY WITHIN THE FOREBAY AND SEDIMENT STORAGE ZONE BASED ON DESIGN AND CURRENT UPSLOPE CONNECTED CATCHMENT FOR DETAILS, REFER TO PRECINCT 9.4 DRAWINGS C711-C712.

CONSTRUCTED HES BASIN 2 TO CONTINUE TO BE MAINTAINED, AS REQUIRED INCLUDING DOSING SYSTEM AND DESILTING TO ENSURE SUFFICIENT CAPACITY WITHIN THE FOREBAY AND SEDIMENT STORAGE ZONE BASED ON DESIGN AND CURRENT UPSLOPE CONNECTED CATCHMENT FOR DETAILS, REFER TO PRECINCT 9.4 DRAWINGS C711-C712.

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 C702) WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C700). 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 FOR CATCHMENTS WHICH DO NOT DRAIN TO 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.

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FLOW DIRECTION OR RUNOFF
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)
- MULCH BERM
- CATCHMENT BOUNDARY
- PRECINCT BOUNDARY
- DIRTY WATER DRAIN

LEGEND - EXISTING

- 12.0 MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- CONSTRUCTED WATER DIVERSION DRAIN (REFER TO PRECINCT 9.4 DRAWING C710 FOR DETAILS REGARDING EXISTING TEMPORARY DRAINAGE)
- EXISTING RETAINING WALL TO PREVENT FLOW TO CONSTRUCTED PRECINCT. CONTRACTOR TO MONITOR DURING EARTHWORKS PHASE

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.

T. CLARK (CPESC No. 6089)

NOTE:
FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION

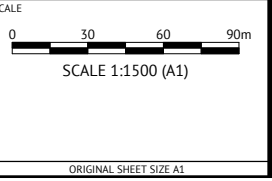
DATE	REV	DESCRIPTION	REVISIONS	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION			
13/09/2022	A	ISSUED FOR APPROVAL			



BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
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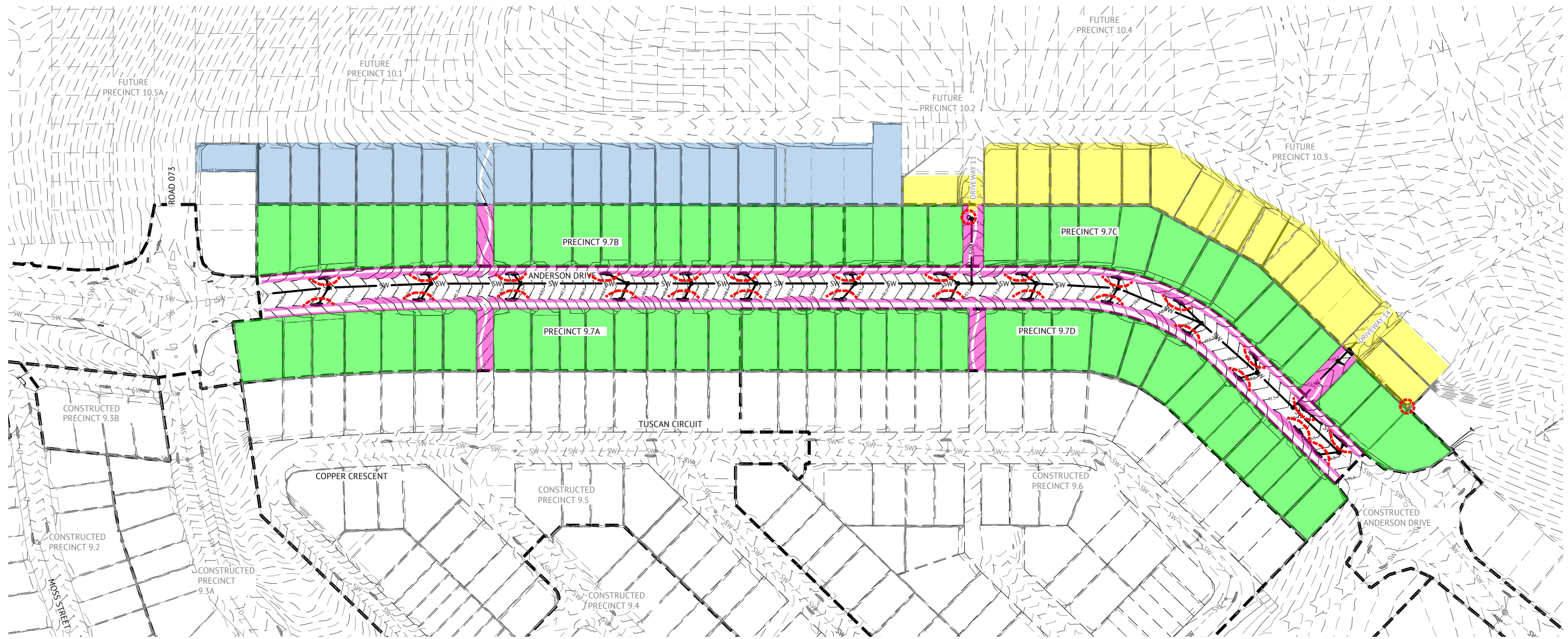
DESIGNED: MARK DAVIES
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY

RPEQ 7112



CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EROSION AND SEDIMENT CONTROL - EARTHWORKS PHASE

JOB CODE		MIR-0907
SHEET NUMBER	REV	C701 B



SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE

- STEP 6**
- A. PRIORITY SHOULD BE GIVEN TO PLACEMENT OF GRAVELS WITHIN ROAD AS A MEANS TO REDUCE EROSION RISK
 - B. PAVEMENT CONSTRUCTION
 - C. MAINTAIN ALL EXISTING ESC MEASURES DURING PAVEMENT CONSTRUCTION
 - D. GULLY INLET CONTROLS TO BE REINSTATED DURING PAVEMENT AND STORMWATER CONSTRUCTION AND MAINTAINED UNTIL ENTIRE UPSLOPE CATCHMENT HAS BEEN STABILISED.
- STEP 7**
- A. MAINTENANCE PERIOD
 - B. MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.
- STEP 8**
- A. REMOVE CONSTRUCTION ENTRANCES.
 - B. ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

LEGEND - PROPOSED		LEGEND - EXISTING	
	PROPOSED STORMWATER		MAJOR CONTOURS (1.00m)
	100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING, APPLY BINDER IMMEDIATELY AFTER DRILL SEEDING.		MINOR CONTOURS (0.50m)
	100mm THICK TOPSOIL AND TURF		STORMWATER
	50mm TOPSOIL AND GRASS SEEDING, APPLY BINDER IMMEDIATELY AFTER SEEDING. ALTERNATIVELY APPLY TEMPORARY HYDROMULCH.		
	NO TOPSOIL AND POLYMER SPRAY		
	GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.		
	FIELD INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-02 FOR DETAILS.		
	FINISHED MAJOR CONTOURS (0.50m)		
	FINISHED MINOR CONTOURS (0.25m)		

- NOTES**
- REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
 - ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
 - CONTRACTOR TO ENSURE THAT GRASS SEEDING AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
 - FOR STABILISATION MEASURES OF FUTURE PRECINCTS, REFER TO MIR-0904 - C703 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE

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

T. CLARK (CPESC No. 6089)

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 9.7 WORKS SHALL BE UNDERTAKEN BY THE CIVIL CONTRACTOR.

NOTE:

FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
08/06/2023	B	ISSUED FOR CONSTRUCTION	KK PB
13/09/2022	A	ISSUED FOR APPROVAL	DW PB
			REC APP

Premise

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

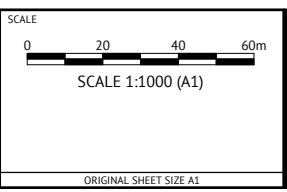
DESIGNED
MARK DAVIES

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE	
MIR-0907	
SHEET NUMBER	REV
C702	B

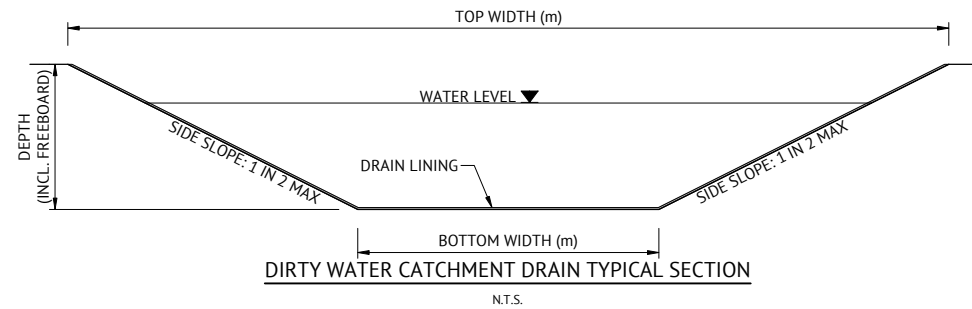
EROSION & SEDIMENT CONTROL NOTES

- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
- ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.
- 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.
- THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:
 - ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON EROSIIVE 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.
- THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
 - 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.
- 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

- INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
- STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
- STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
- 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.
- 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.
- DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.
- SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.

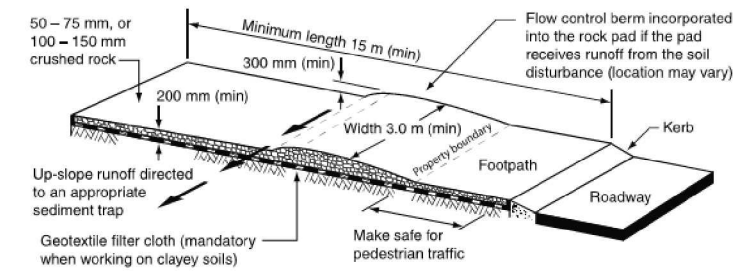
CATCH DRAIN SIZING	
$Q_y = (C_y \cdot I_{tc,y} \cdot A) / 360$ [Equation 1 (IECA 2008)]	
where:	
Q_y	PEAK FLOW RATE (m ³ /s) OF AVERAGE RECURRENCE INTERVAL (ARI) OF Y YEARS
C_y	RUNOFF COEFFICIENT (DIMENSIONLESS) FOR ARI OF Y YEARS
$I_{tc,y}$	AVERAGE RAINFALL INTENSITY (mm/hr) FOR DESIGN DURATION OF TC HOURS AND ARI OF Y YEARS
A	AREA OF CATCHMENTS (ha)
360	CONVERSION FACTOR
FLOW HEIGHT IS SOLVED BY TRIAL AND ERROR USING THE THREE EQUATIONS BELOW AS PER IECA 2008.	
$Q = 1/n \cdot A \cdot R^{2/3} \cdot S^{1/2}$ [Equation 2 (IECA 2008)]	
where:	
Q	PEAK FLOW RATE (m ³ /s) OF AVERAGE RECURRENCE INTERVAL (ARI) OF Y YEARS
n	MANNING'S COEFFICIENT (UNITLESS)
A	CROSS SECTIONAL AREA OF FLOW (m ²), REFER TO EQUATION 3
R	HYDRAULIC RADIUS (m), REFER TO EQUATION 4
S	SLOPE OF ENERGY LINE, EQUAL TO SLOPE OF CHANNEL BED (m/m)
$A = (b + xy)y$ [Equation 3 (IECA 2008)]	
where:	
A	CROSS SECTIONAL AREA OF FLOW (m ²)
b	BASE WIDTH OF CHANNEL (m)
x	SIDE SLOPE OF CHANNEL
y	DEPTH OF FLOW IN CHANNEL (m) + REQUIRED 0.15m FREEBOARD
$R = ((b + xy)y) / (b + 2y(1 + x^2)^{1/2})$ [Equation 4 (IECA 2008)]	
where:	
R	HYDRAULIC RADIUS OF FLOW (m)
b	BASE WIDTH OF CHANNEL (m)
x	SIDE SLOPE OF CHANNEL
y	DEPTH OF FLOW IN CHANNEL (m) + REQUIRED 0.30m FREEBOARD



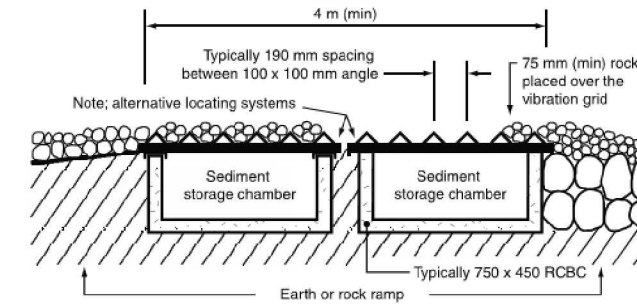
DIRTY WATER CATCH DRAIN DETAILS

DRAIN ID	SLOPE	LINING	BASE WIDTH (m)	TOP WIDTH (m)	DEPTH INCLUDING FREEBOARD (m)
DWD-1	4.00%	BLACK PLASTIC	0.5	2.7	0.55

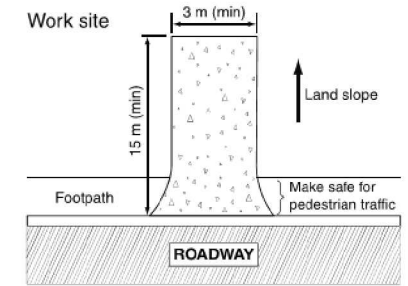
NOTE: REFER TYPICAL SECTION ABOVE FOR DETAILS. CATCH DRAINS SIZED FOR Q2 FLOW. ONCE EARTHWORKS PROGRESS DWD-1 TO BE REDUNDANT AND RUNOFF CONVEYED WITHIN ROAD BOX PER DRAWING C701. ROAD BOX TO BE MANAGED PER COMMENTS ON DRAWING C701.



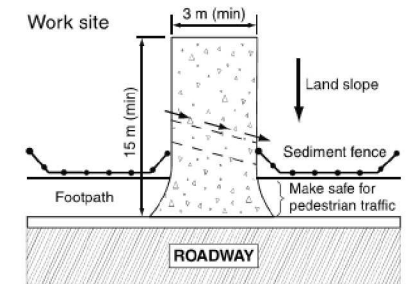
(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)



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



(b) Rock pad sloping away from road



(d) Rock pad sloping towards the road

CONSTRUCTION ENTRANCE DETAIL

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
T. CLARK (CPESC No. 6089) *T. Clark*

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			REC	APP

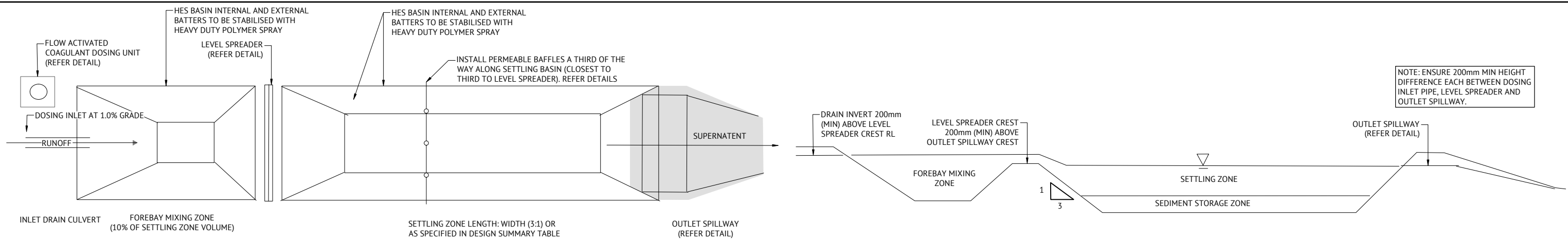
Premise
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BRISBANE, QLD 4000
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DESIGNED
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CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE
ORIGINAL SHEET SIZE A1

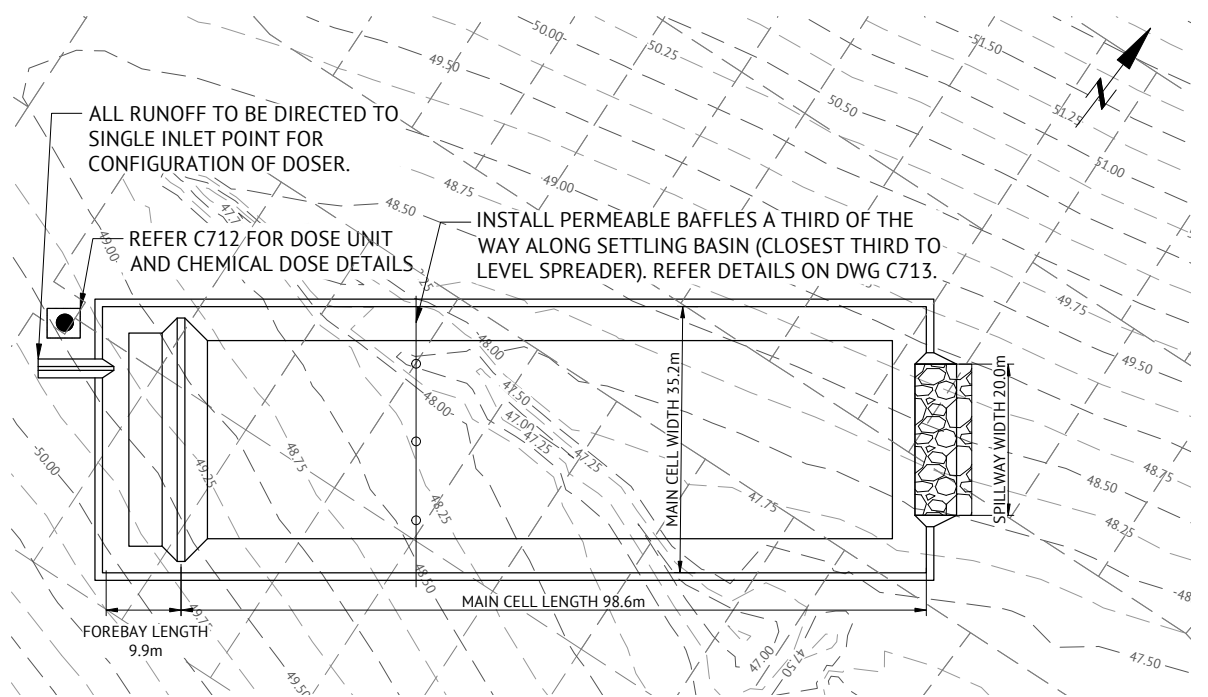
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB CODE
MIR-0907
SHEET NUMBER
C710
REV
B

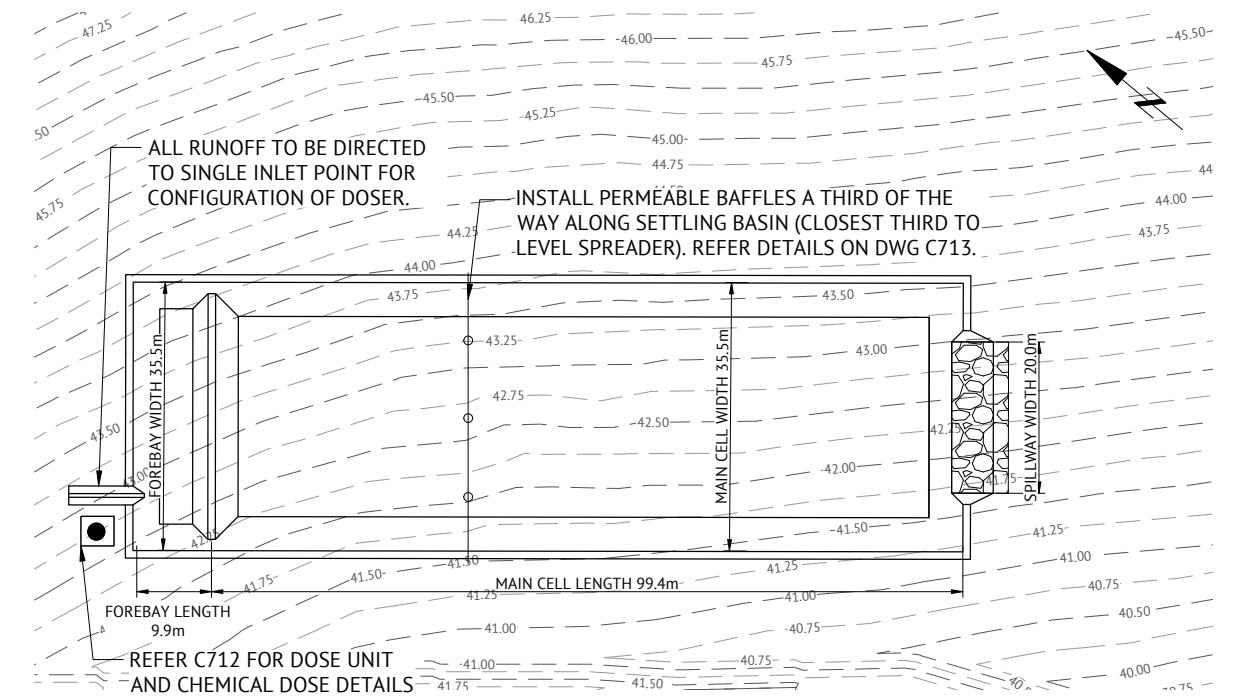


TYPICAL TYPE B SEDIMENT BASIN PLAN VIEW
N.T.S.

TYPICAL TYPE B SEDIMENT BASIN PROFILE
N.T.S.



HES BASIN 1
1:500



HES BASIN 2
1:500

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T. CLARK (CPESC No. 6089) *T. Clark*

HES BASIN SIZING DETAILS (AS PER PRECINCT 9.4 DRAWINGS C711-C712)

BASIN ID	DESIGN PARAMETER						SETTLING ZONE (INCLUDING SEDIMENT STORAGE)				FOREBAY				HYDRAULIC CONTROLS			
	CATCHMENT AREA	SETTLING DEPTH D _s	C ₁	TIME OF CONC	I ₁	FLOC SETTLE DEPTH D _f	VOLUME	LENGTH	WIDTH	DEPTH (AT SPILLWAY)	VOLUME	LENGTH	WIDTH	DEPTH	SPILLWAY CREST BASE WIDTH	SPILLWAY CREST	EMBANKMENT	LEVEL SPREADER CREST
	HA	m		MIN	MM/HR	m	(m ³)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	RL	RL	RL
HES BASIN 1	11.20	1.00	0.56	19.00	61.00	0.60	3708.00	98.60	35.20	1.5	348.48	9.90	35.20	1.00	20.00	49.55	50.20	49.75
HES BASIN 2	9.97	1.00	0.56	16.00	70.00	0.60	3796.00	99.40	35.50	1.5	351.45	9.90	35.50	1.00	20.00	43.30	43.80	43.50

NOTE:
1. JAR TESTING USING REPRESENTATIVE SITE SOILS HAS BEEN UNDERTAKEN (REFER DRAWING C712). JAR TESTING CONFIRMS A SETTLEMENT RATE OF 150mm IN 15 MINUTES IS ACHIEVABLE USING THE NOMINATED ACH COAGULANT AT A DOSE RATE OF 100ppm. BASIN DESIGN HAS ADOPTED AN EQUIVALENT SETTLEMENT RATE IN SIZING.
2. SCOUR VELOCITY CALCULATED THROUGH BASINS MAY EXCEED NOMINAL 0.015m/s VELOCITY PER DESIGN PROCEDURE (OPTION 2B WITHIN IECA, 2018). RECOMMENDED THAT PERMEABLE BAFFLES BE INSTALLED IN BASIN AND REGULAR MONITORING BE UNDERTAKEN TO VERIFY PERFORMANCE.

REFER C713 FOR SPILLWAY DETAILS

FOR CONSTRUCTION			<p>BRISBANE OFFICE LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	<p>DESIGNED: MARK DAVIES CHECKED: ANDREW LANGDON PROJECT MANAGER: NICK SOMERVILLE PROJECT DIRECTOR: PATRICK BRADY</p>	<p>SCALE: 1:500 (A1)</p> <p>ORIGINAL SHEET SIZE A1</p>	<p>CLIENT: MIRVAC QLD PTY LTD PROJECT: EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT LOCATION: TEVIOT ROAD, GREENBANK SHEET TITLE: EROSION AND SEDIMENT CONTROL NOTES AND DETAILS</p>	<p>JOB CODE: MIR-0907 SHEET NUMBER: C711 REV: B</p>
<p>08/06/2023 B ISSUED FOR CONSTRUCTION KK PB 13/09/2022 A ISSUED FOR APPROVAL DW PB DATE REV DESCRIPTION REC APP</p>	<p>REVISIONS</p>						

EROSION & SEDIMENT CONTROL NOTES

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 - 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
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ESC MEASURES	WHEN SETTLED SEDIMENT VOLUME EXCEEDS 25% OF THE CAPACITY OF THE ESC MEASURE	BY THE END OF THE DAY

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- DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.
- SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.

AUTO DOSER

- JAR TESTING UNDERTAKEN BY TURBID WITH REPRESENTATIVE SOIL SAMPLES COMPOSITED OVER THE SUBJECT AREA USED. BASED ON JAR TESTING A DOSE RATE OF 100PPM (100L OF ACH PER 1ML OF BASIN STORAGE VOLUME) IS TO BE ADOPTED. NOMINATED ACH COAGULANT IS TURBICLEAR. IF ALTERNATIVE PRODUCT/S USED THAN JAR TESTING TO BE VERIFIED.
- GIVEN THE CATCHMENT AREA AND DYNAMIC NATURE OF THE SITE IT IS RECOMMENDED THAT A FLOW BASED AUTOMATED DOSER BE INSTALLED AT THE INLET TO THE FOREBAY.
- A WELL CONSTRUCTED AND DEFINED OPEN CHANNEL OR PIPE WILL BE REQUIRED TO ACHIEVE EFFECTIVE AND ACCURATE FLOW DEPTH RECORDING BY THE DOSE UNIT. A STILLING POND UPSLOPE OF THE INLET TO THE OPEN CHANNEL OR PIPE IS RECOMMENDED TO IMPROVE ACCURACY AND PERFORMANCE OF THE SYSTEM.
- ALL WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
- THE DOSE UNIT SUPPLIER SHOULD BE CONTACTED TO DISCUSS SETUP AND INSTALLATION REQUIREMENTS.

OPERATIONAL PROCEDURES

IT IS PROPOSED THAT STORMWATER RUNOFF COLLECTED BY THE SEDIMENT BASINS BE RE-USED ON SITE AS PART CIVIL CONSTRUCTION OPERATIONS. HOWEVER, IF IT IS REQUIRED TO RELEASE COLLECTED RUNOFF INTO DOWNSTREAM OFFSITE SYSTEMS, THE REQUIRED WATER QUALITY IS TO BE MET. TABLE 5 BELOW DETAILS RECOMMENDED WATER QUALITY STANDARDS FOR DISCHARGE OF WET BASINS.







RECOMMENDED DISCHARGE STANDARD FOR DEWATERING OPERATIONS.	
SITE CONDITIONS	DISCHARGE WATER QUALITY STANDARD
POST-STORM DEWATERING OF WET SEDIMENT BASINS	90 PERCENTLE TOTAL SUSPENDE SOLIDS (TSS) CONCENTRATION NOT EXCEEDING 50mg/L pH 6.5 TP 8.5

SEDIMENT BASIN MAINTENANCE

- SEDIMENT BASINS SHOULD BE INSPECTED DURING THE FOLLOWING PERIODS:
 - DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY OR CONSTRUCTION ACTIVITIES HAVE DAMAGED ANY COMPONENTS OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, FIX IT;
 - AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS;
 - AT LEAST WEEKLY DURING THE WET SEASON AND THEN FORTNIGHTLY AFTER THAT;
 - PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE SHUT DOWN.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA OR IF APPROPRIATE MIX WITH DRY SOIL ON SITE.
- DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
- CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
- CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT, MAKE ALL NECESSARY REPAIRS.
- REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
- SUBMERGE INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH

SEDIMENT BASIN REMOVAL

- WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED. SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED.
- BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN, INSTALL ALL NECESSARY SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
- ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
- BRING THE DISTURBED BASIN AREAS TO A PROPER GRADE, THEN SMOOTH, COMPACT, AND STABILISE AND/OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

JAR TEST RESULTS (DOSING CHEMICAL: TURBICLEAR ACH)						
DOSE RATE (ml/L)	0.00 CONTROL	0.04	0.06	0.08	0.10	0.12
CLARITY ACHIEVED AFTER 5 MINS	481	199	87.4	61.5	58.5	37.2
CLARITY ACHIEVED AFTER 15 MINS	458	84.8	65.5	54.5	39.8	34.2
CLARITY ACHIEVED AFTER 30 MINS	385	68.2	56.9	42.3	30.9	26.7
CLARITY ACHIEVED AFTER 60 MINS	307	53.0	41.1	26.5	17.3	15.6
FINAL pH	7.4	7.4	7.3	7.3	7.3	7.3
FINAL TURBIDITY	307	53	56	26	17	15
FINAL TEST RESULT						

NOTE: STARTING pH = 7.4 STARTING TURBIDITY = 930

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

T. CLARK (CPESC No. 6089) *T. Clark*

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
08/06/2023	B	ISSUED FOR CONSTRUCTION		
13/09/2022	A	ISSUED FOR APPROVAL		
			DW	PB
			REC	APP



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

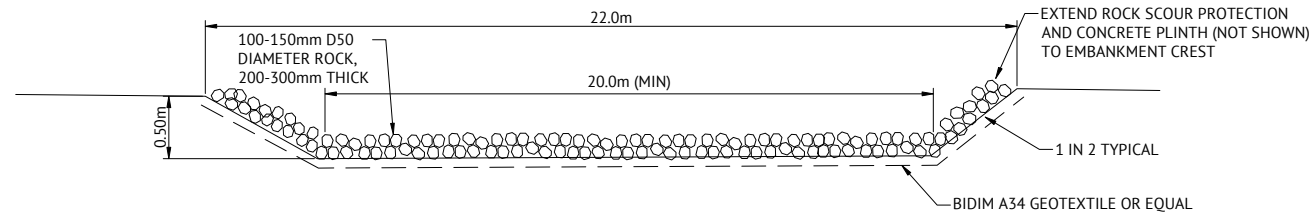
DESIGNED
MARK DAVIES
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE

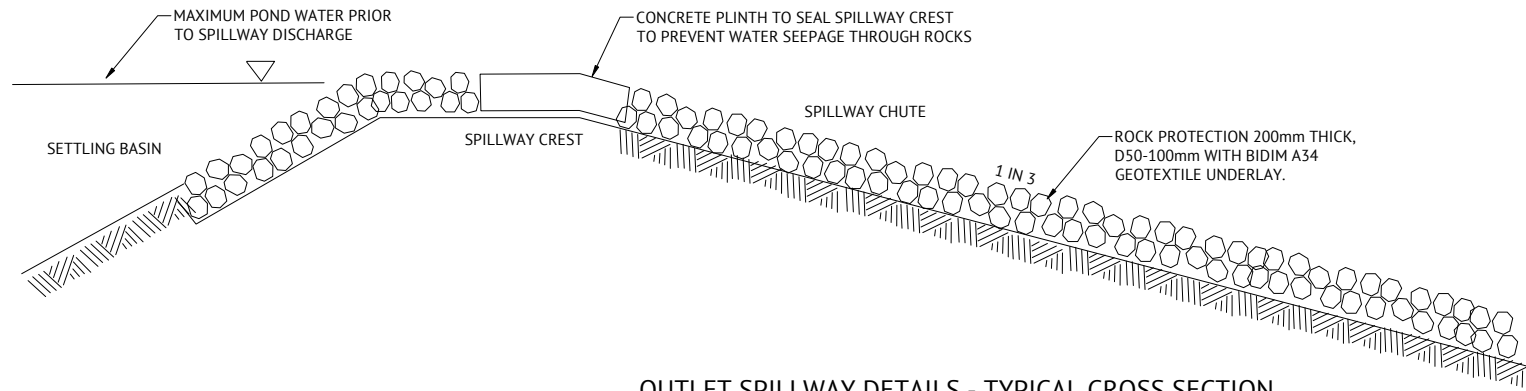
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

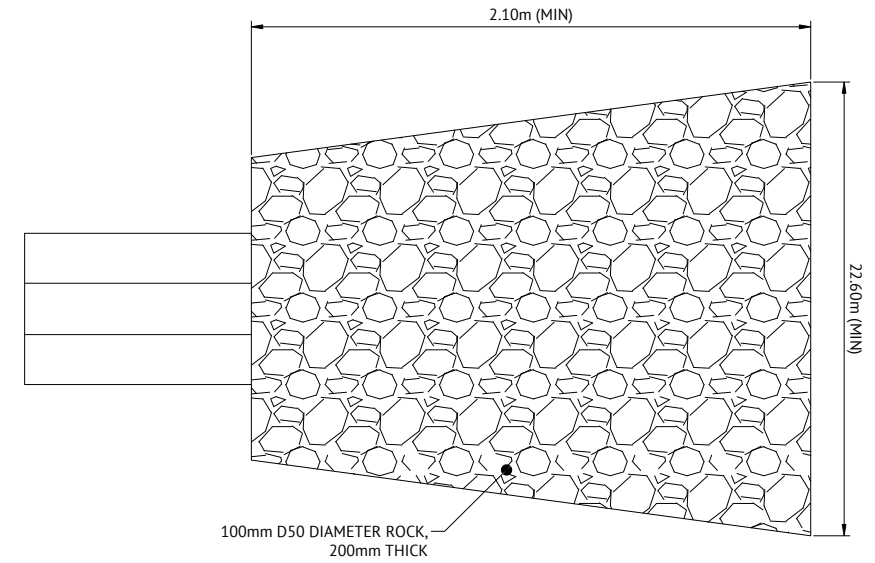
JOB CODE
MIR-0907
SHEET NUMBER
C712
REV
B



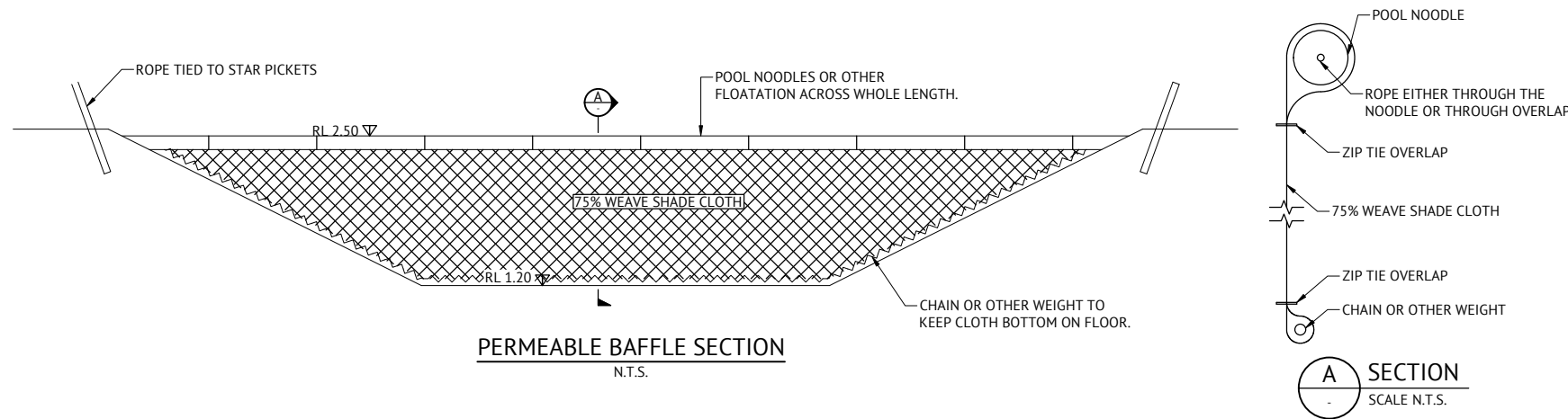
OUTLET SPILLWAY DETAILS - TYPICAL LONG SECTION
N.T.S.



OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION
N.T.S.



ENERGY DISSIPATER DETAILS - TYPICAL LAYOUT
N.T.S.



PERMEABLE BAFFLE SECTION
N.T.S.

SPILLWAY DETAILS

BASIN ID	WEIR				CHUTE			DISSIPATER		
	BASE WIDTH	SIDE SLOPE	MIN. HEIGHT SPILLWAY TO TOB	TOP WIDTH	LONG SLOPE (m/m)	ROCK SIZE D50	DEPTH WITH FREE BOARD	MEAN ROCK SIZE D50	WIDTH	LENGTH
	(m)	1 IN X	(m)	(m)	%	(mm)	(m)	(mm)	(m)	(m)
HES BASIN 1	20	2	0.50	22	30	100-150	0.5	100	22.60	2.1
HES BASIN 2	20	2	0.50	22	30	100-150	0.5	100	22.60	2.1

REFER TYPICAL SECTION ABOVE FOR DETAILS.
NOTE: SPILLWAY SIZED FOR 20yr ARI FLOW.

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

T. CLARK (CPESC No. 6089) *T. Clark*

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

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PKB
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SCALE
ORIGINAL SHEET SIZE A1

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EVERLEIGH PRECINCT 9.7A, B, C, D SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB CODE
MIR-0907
SHEET NUMBER
C713
REV
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			REC	APP

ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 AND AUDITS (AS REQUIRED) • INSPECT ESC INSTALLATION AND MAINTENANCE • INSPECT OFFSITE IMPACTS AND MANAGEMENT • PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)
ALL PERSONNEL	<ul style="list-style-type: none"> • 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 FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.

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T. CLARK (CPESC No. 6089)

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DATE	REV	DESCRIPTION	REC	APP	PROJECT MANAGER NICK SOMERVILLE	SHEET TITLE	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		REV
REVISIONS				PROJECT DIRECTOR PATRICK BRADY	RPEQ 7112	ORIGINAL SHEET SIZE A1		714	B