

# EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C001	COVER SHEET
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN
C100	ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1
C101	ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2
C200	OVERALL EARTHWORKS LAYOUT PLAN
C201	BULK EARTHWORKS LAYOUT PLAN - SHEET 1
C202	BULK EARTHWORKS LAYOUT PLAN - SHEET 2
C203	BULK EARTHWORKS LAYOUT PLAN - SHEET 3
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2
C220	EARTHWORKS SUBGRADE ROCK PREPARATION LAYOUT PLAN
C230	HAUL ROADS & CONSTRUCTION WATER DETAILS
C240	PRINCIPAL CONTRACTOR AREAS PLAN
C250	VEGETATION CLEARING SECTIONS & NOTES
C300	ROADWORKS NOTES AND DETAILS
C310	TUSCAN CIRCUIT (NORTH) LONG & CROSS SECTIONS
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C312	OCHRE STREET LONG & CROSS SECTIONS - SHEET 1
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C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN
C400	STORMWATER CATCHMENT LAYOUT PLAN
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
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C420	STORMWATER DRAINAGE NOTES AND DETAILS
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C451	STORMWATER STRUCTURE CIRCULAR PIT BASE & WALLS
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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
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C700	OVERALL EROSION & SEDIMENT CONTROL KEY PLAN
C701	EROSION AND SEDIMENT CONTROL - CLEAR AND GRUB PHASE
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C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1
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C714	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 5
C715	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 6
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE

### 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

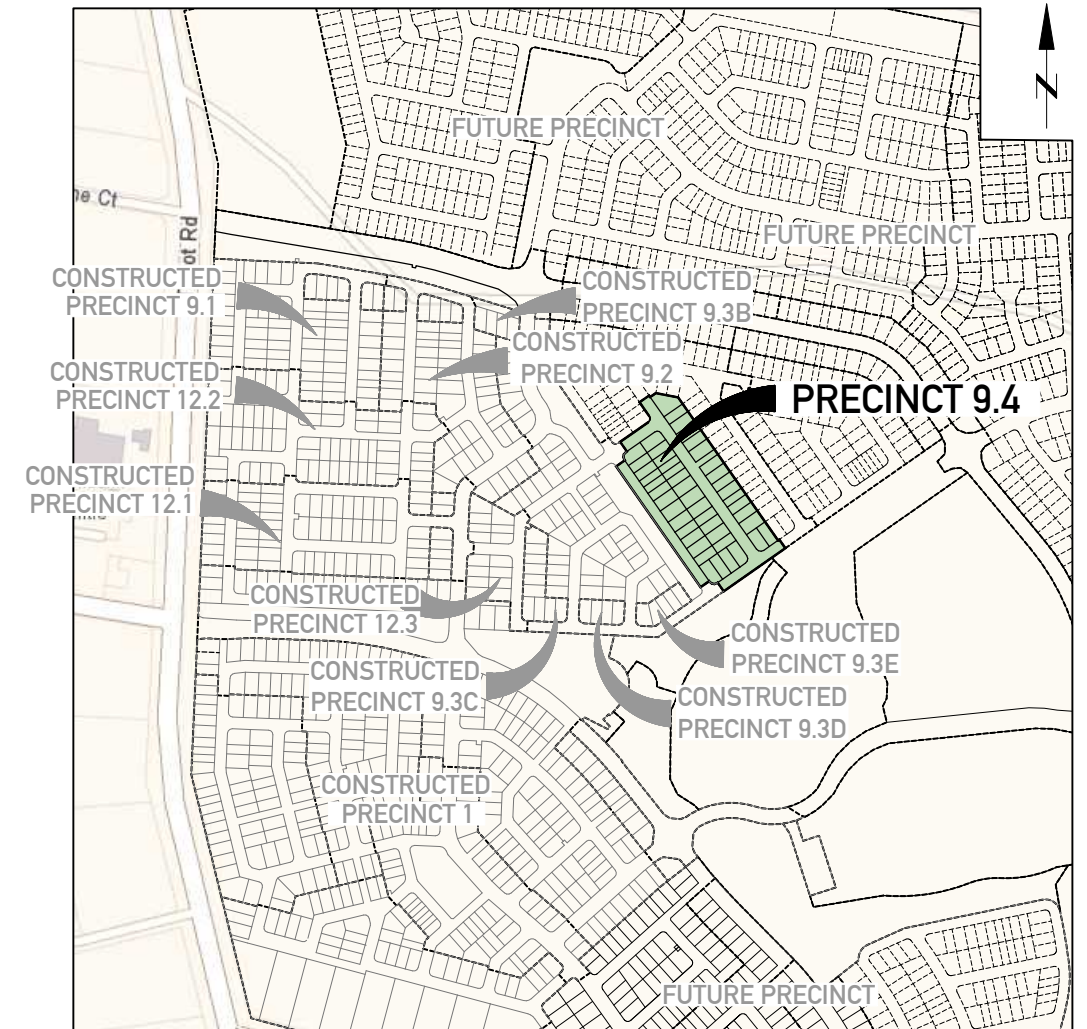
- NO LOCATING/POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE 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	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
12/11/2021	2	90% REVIEW ISSUE	KK	PB
28/10/2021	1	PRELIMINARY ISSUE	VKH	PB

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ANDREW LANGDON  
PROJECT MANAGER  
SIMON STEINHOFER  
PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112

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

CLIENT  
MIRVAC QLD PTY LTD  
PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
COVER SHEET

JOB CODE  
MIR-0904  
SHEET NUMBER  
C001  
REV  
B



**LEGEND**

- PROPOSED ROAD CENTRELINE
- STAGE BOUNDARY

**INDEMNITY - EXISTING SERVICES**

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

**LEVEL DATUM: AHD (DERIVED)**

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

**ORIGIN OF COORDINATES: STATION C1 (PM 73506)**

PROJECT COORDINATES - STN C1, 8792.646 E, 32093.723 N

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

**SITE AREA**

28,849m<sup>2</sup>

**REAL PROPERTY DESCRIPTION**

LOT 2 on SP297192

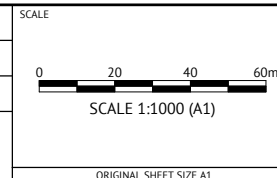
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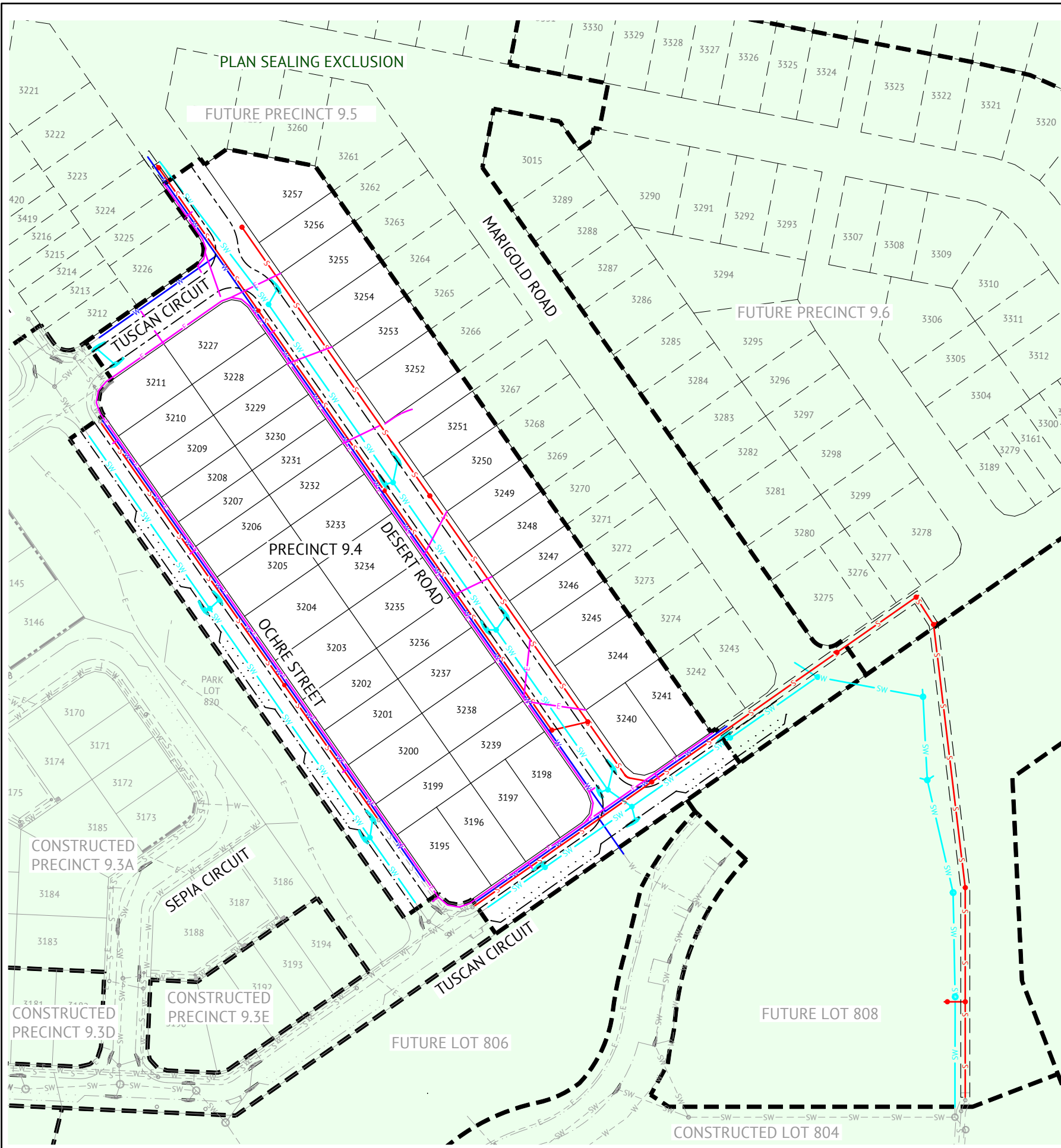
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CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SURVEY SETOUT PLAN**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C002**  
 REV  
**B**



**LEGEND - PROPOSED**

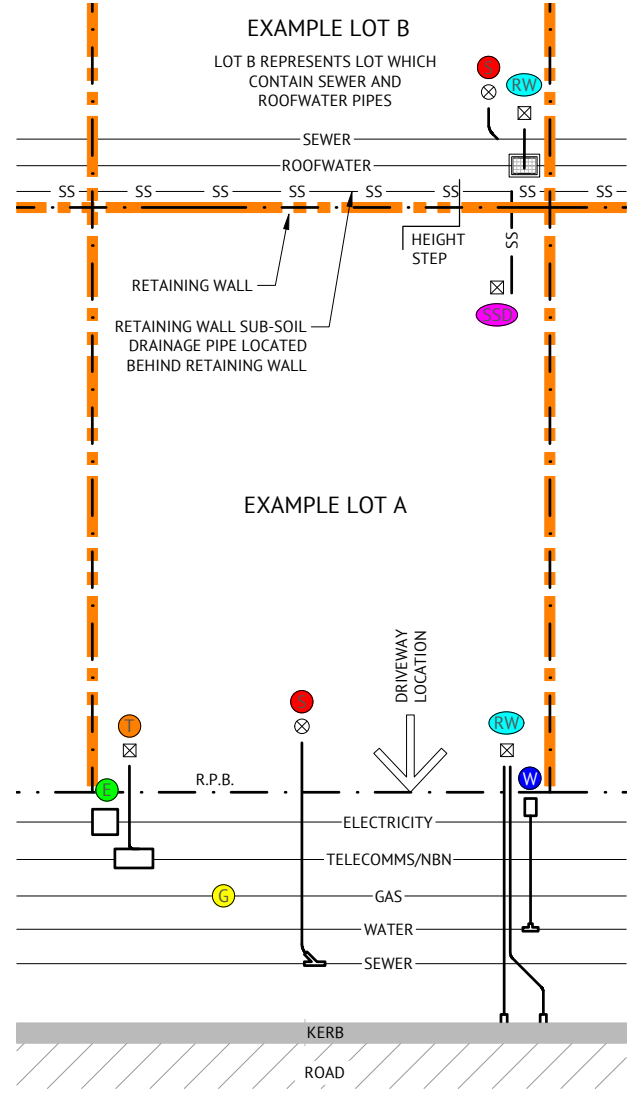
- SW — STORMWATER
- S — GRAVITY SEWER
- W — WATER
- E — ELECTRICITY

**LEGEND - CONSTRUCTED**

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

**LEGEND - PROPERTY SERVICE CONNECTIONS**

- W **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."
- RW **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."
- SSD **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".
- T **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".
- G **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



TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL  
NTS

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PATRICK BRADY  
 RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**OVERALL SERVICES LAYOUT**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C003**  
 REV  
**B**

**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.

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REV	APP
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12/11/2021	2	90% REVIEW ISSUE	KK	PB
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CHECKED  
**ANDREW LANGDON**

PROJECT MANAGER  
**SIMON STEINHOFER**

PROJECT DIRECTOR  
*Patrick Brady*

**PATRICK BRADY** RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

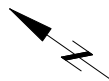
LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SAFETY IN DESIGN**

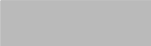
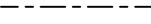
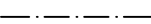







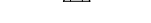

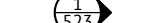
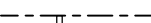

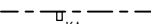




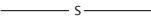
JOB CODE  
**MIR-0904**

SHEET NUMBER  
**C004**







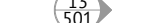

REV  
**B**

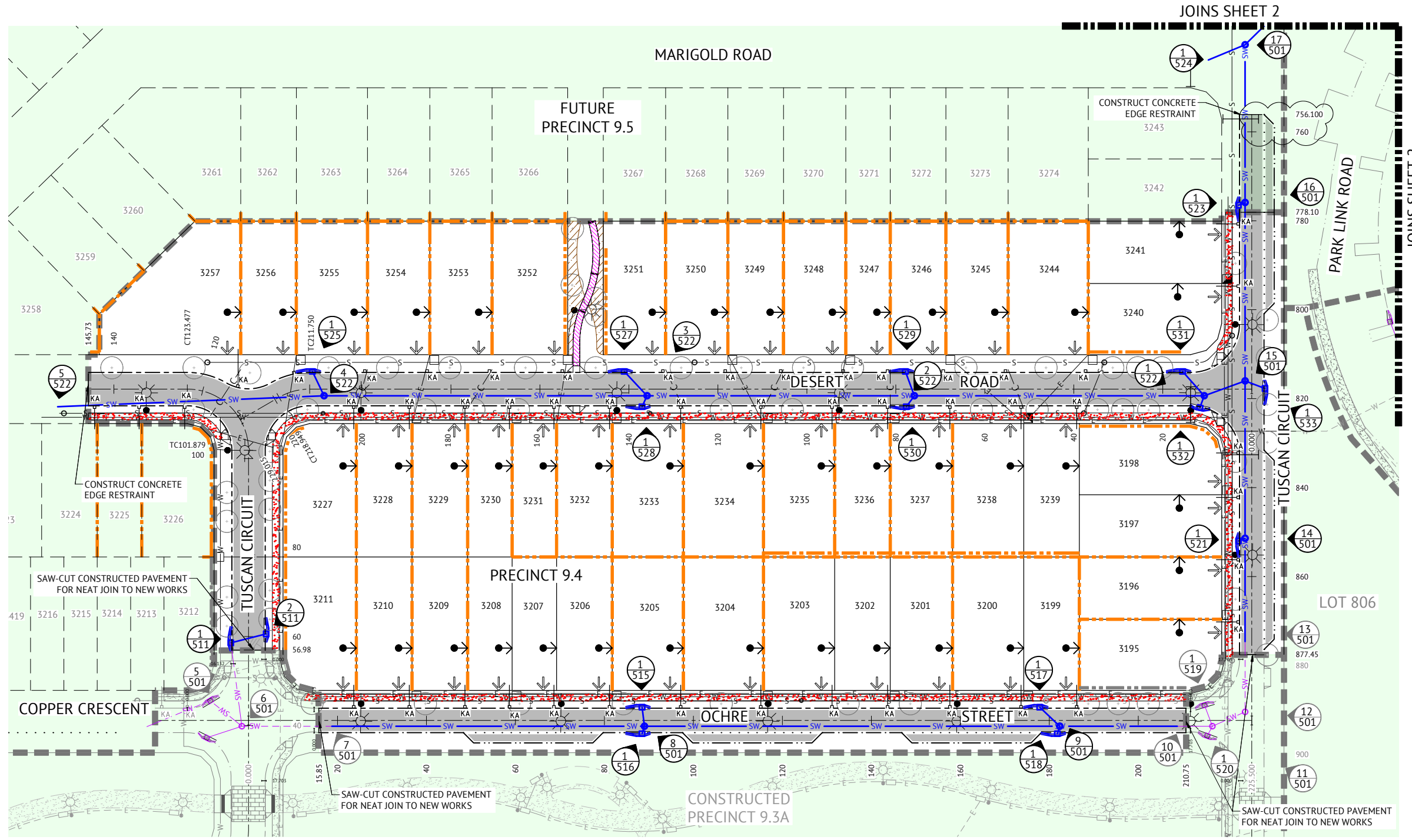


LEGEND - PROPOSED

-  PAVEMENT
-  PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED 1.5m WIDE (U.N.O.) CONCRETE CIVIL 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.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
-  PROPOSED RETAINING WALL
-  ZERO LOT BOUNDARY
-  PROPOSED FUTURE DRIVEWAY LOCATION
-  PROPOSED SEWER
-  PROPOSED WATER
-  PROPOSED WATER CONDUIT
-  PROPOSED LANDSCAPING WITHIN VERGE. CONCRETE EDGE RESTRAINT BY LANDSCAPING CONTRACTOR. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.

LEGEND - CONSTRUCTED

-  STORMWATER
-  SEWER
-  WATER
-  ELECTRICAL
-  TELSTRA
-  GAS
-  RETAINING WALL
-  STORMWATER STRUCTURE No.



LAYOUT PLAN  
SCALE 1:500

NOTE:  
PRECINCT 9.4 BALANCE AREA OVERLAND FLOW TO FLOW INTO PARK THEN CONVEYED UNDER PARK LINK ROAD.

**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.

**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 LAISE WITH OWN GEOTECHNICAL ENGINEER TO ACHIEVE REQUIREMENT.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
15/07/2022	C	ADDED CH760 AND CH756.100	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	3	90% REVIEW ISSUE	KK PB
05/11/2021	2	MINOR UPDATES	KK PB
28/10/2021	1	PRELIMINARY ISSUE	VKH PB
			REC APP

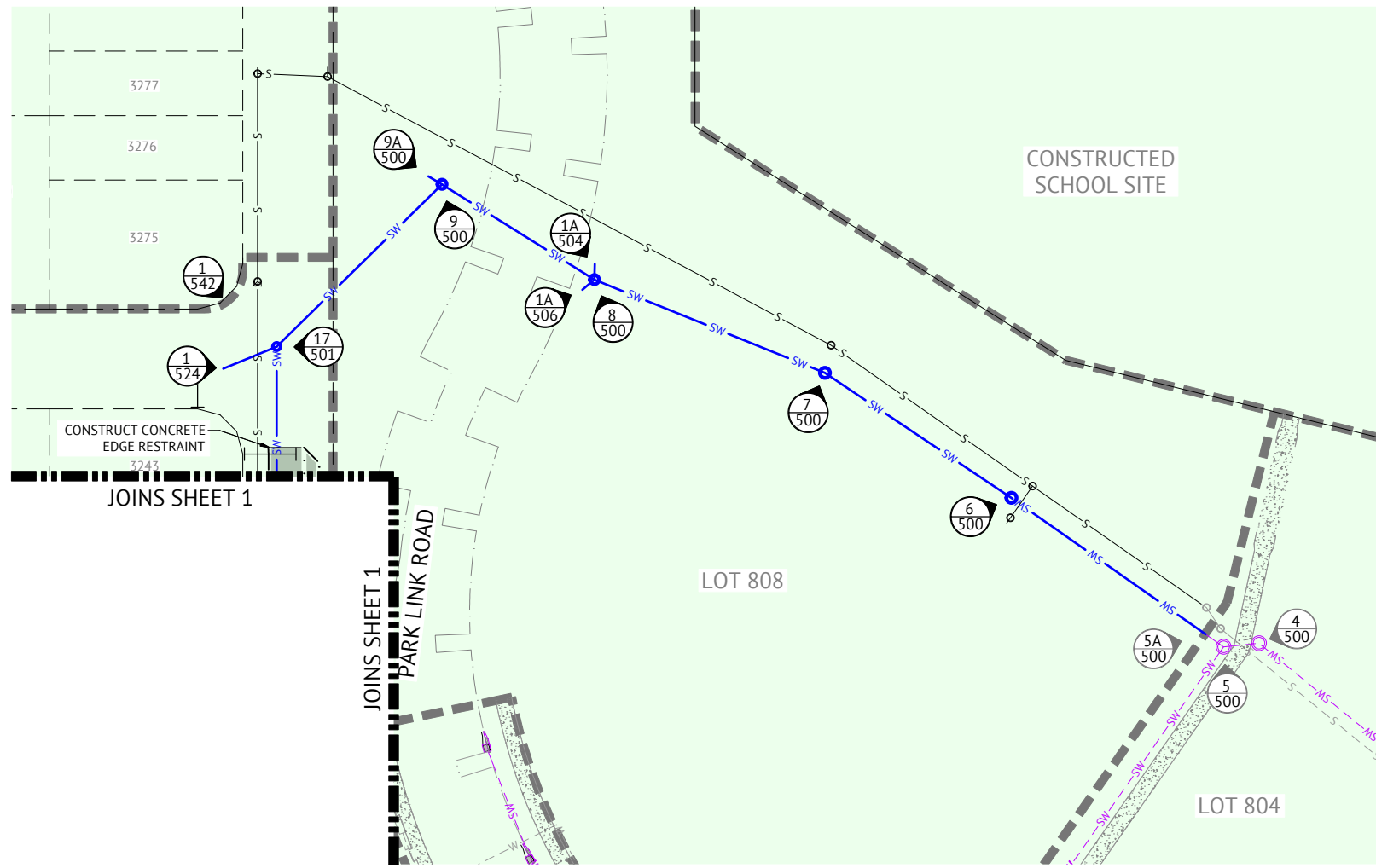
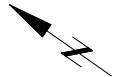
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PROJECT DIRECTOR  
PATRICK BRADY RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C100**  
REV  
**C**



LAYOUT PLAN  
SCALE 1:500

**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.

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

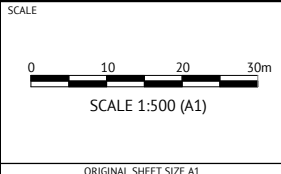
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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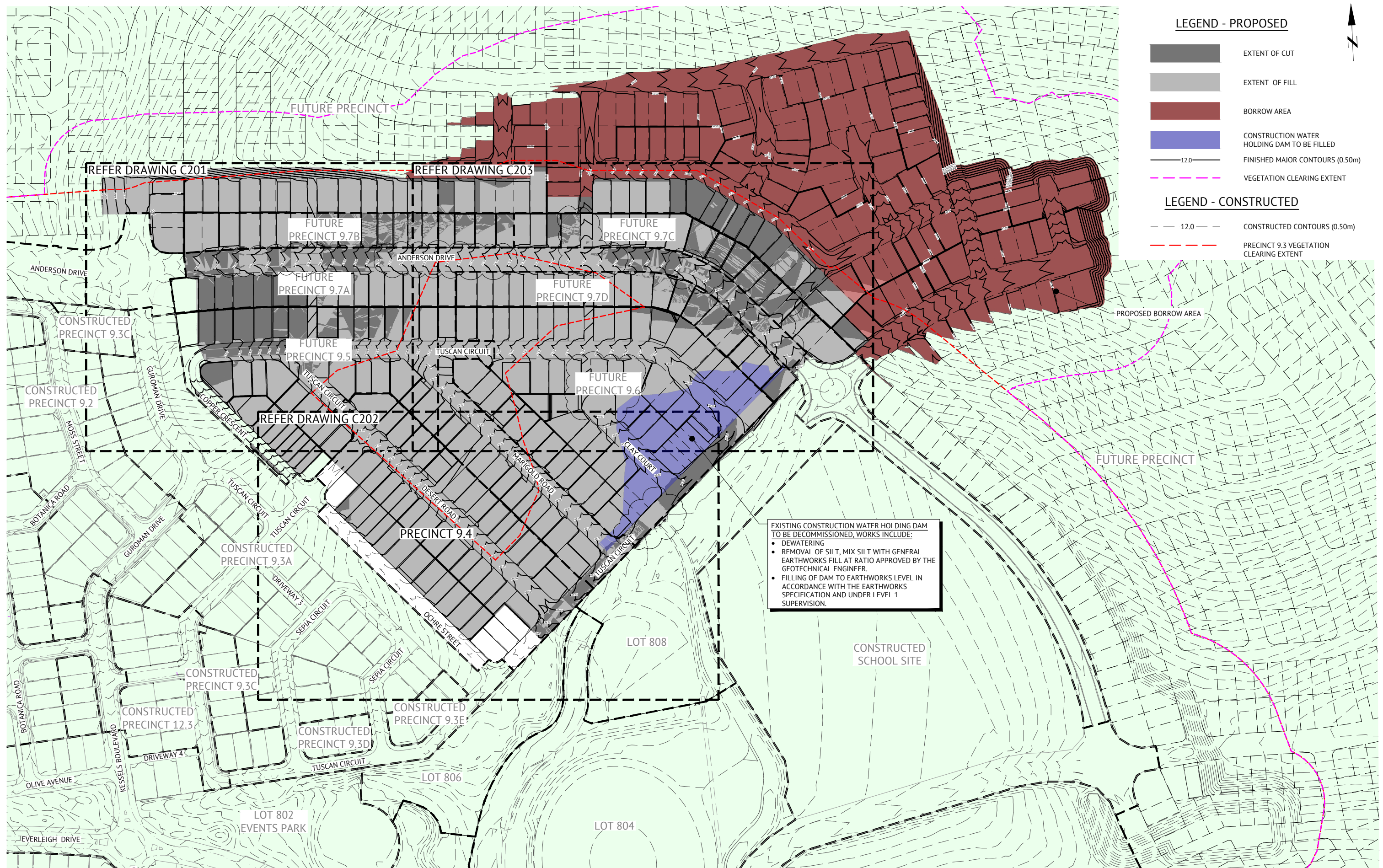
**BRISBANE OFFICE**  
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PROJECT DIRECTOR  
*PSB*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C101**  
REV  
**B**



**LEGEND - PROPOSED**

- EXTENT OF CUT
- EXTENT OF FILL
- BORROW AREA
- CONSTRUCTION WATER HOLDING DAM TO BE FILLED
- 12.0 FINISHED MAJOR CONTOURS (0.50m)
- VEGETATION CLEARING EXTENT

**LEGEND - CONSTRUCTED**

- 12.0 CONSTRUCTED CONTOURS (0.50m)
- PRECINCT 9.3 VEGETATION CLEARING EXTENT

EXISTING CONSTRUCTION WATER HOLDING DAM TO BE DECOMMISSIONED, WORKS INCLUDE:

- DEWATERING
- REMOVAL OF SILT, MIX SILT WITH GENERAL EARTHWORKS FILL AT RATIO APPROVED BY THE GEOTECHNICAL ENGINEER.
- FILLING OF DAM TO EARTHWORKS LEVEL IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND UNDER LEVEL 1 SUPERVISION.

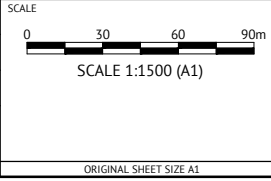
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISED BY	APP
30/06/2021	C	UPDATED BULK EARTHWORKS	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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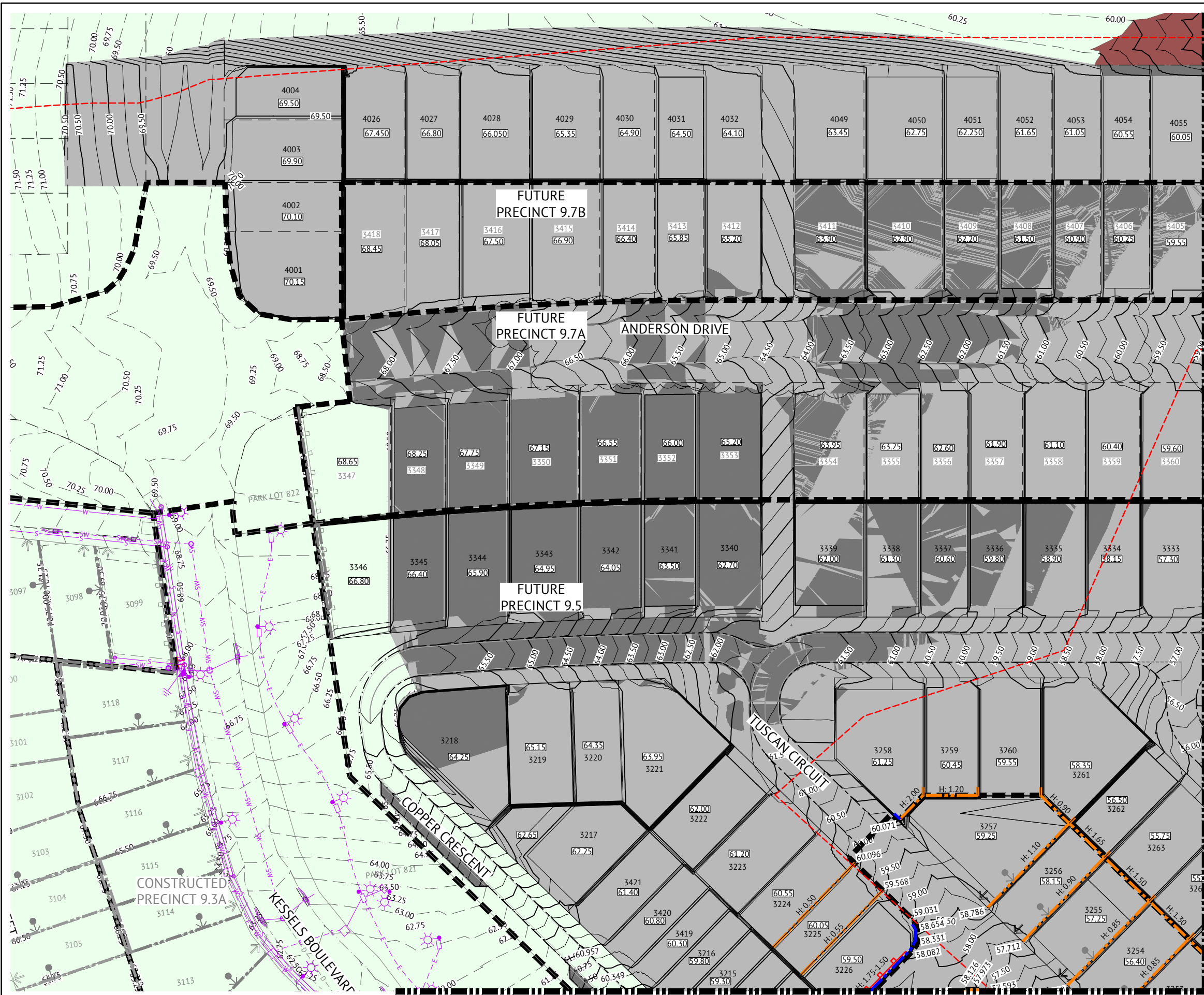
CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**OVERALL EARTHWORKS LAYOUT PLAN**

JOB CODE <b>MIR-0904</b>	
SHEET NUMBER <b>C200</b>	REV <b>C</b>



JOINS DRAWING C202

**LEGEND - PROPOSED**

- EXTENT OF CUT
- EXTENT OF FILL
- BORROW AREA
- CONSTRUCTION WATER HOLDING DAM TO BE FILLED
- 12.0 FINISHED MAJOR CONTOURS (1.00m)
- 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
- 58.25 x FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- VEGETATION CLEARING EXTENT
- STAGE BOUNDARY

**LEGEND - CONSTRUCTED**

- RETAINING WALL
- 12.0 CONTOURS (0.50m)
- STORMWATER
- SEWER
- WATER
- ELECTRICITY
- PRECINCT 9.3 VEGETATION CLEARING EXTENT

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

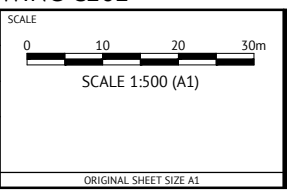
**FOR CONSTRUCTION**

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 PROJECT DIRECTOR  
*Patrick Brady*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

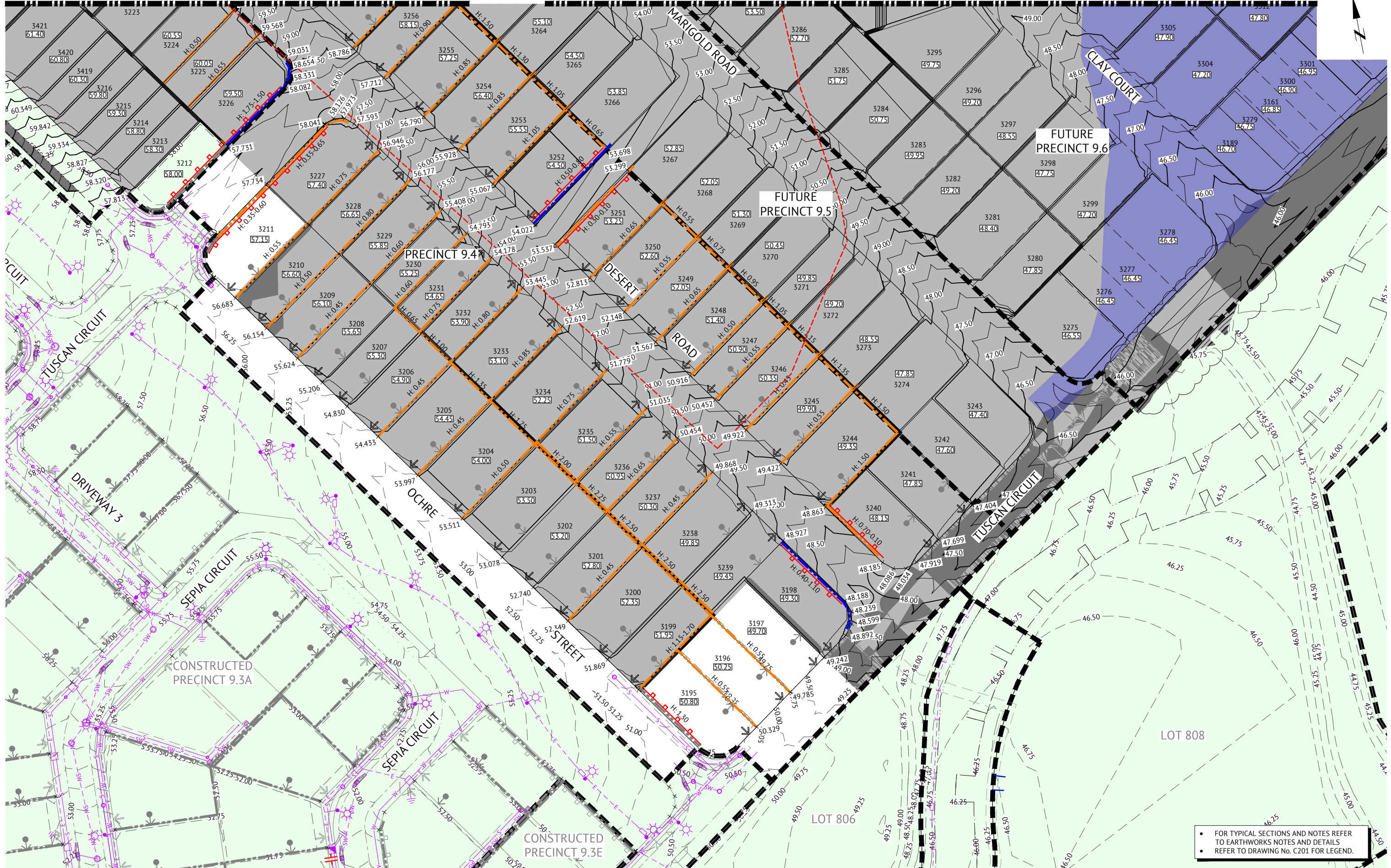
SHEET TITLE  
**BULK EARTHWORKS LAYOUT PLAN - SHEET 1**

JOB CODE  
**MIR-0904**

SHEET NUMBER  
**C201**

REV  
**C**





• FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS  
 • REFER TO DRAWING No. C201 FOR LEGEND.

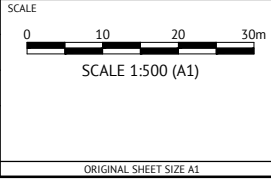
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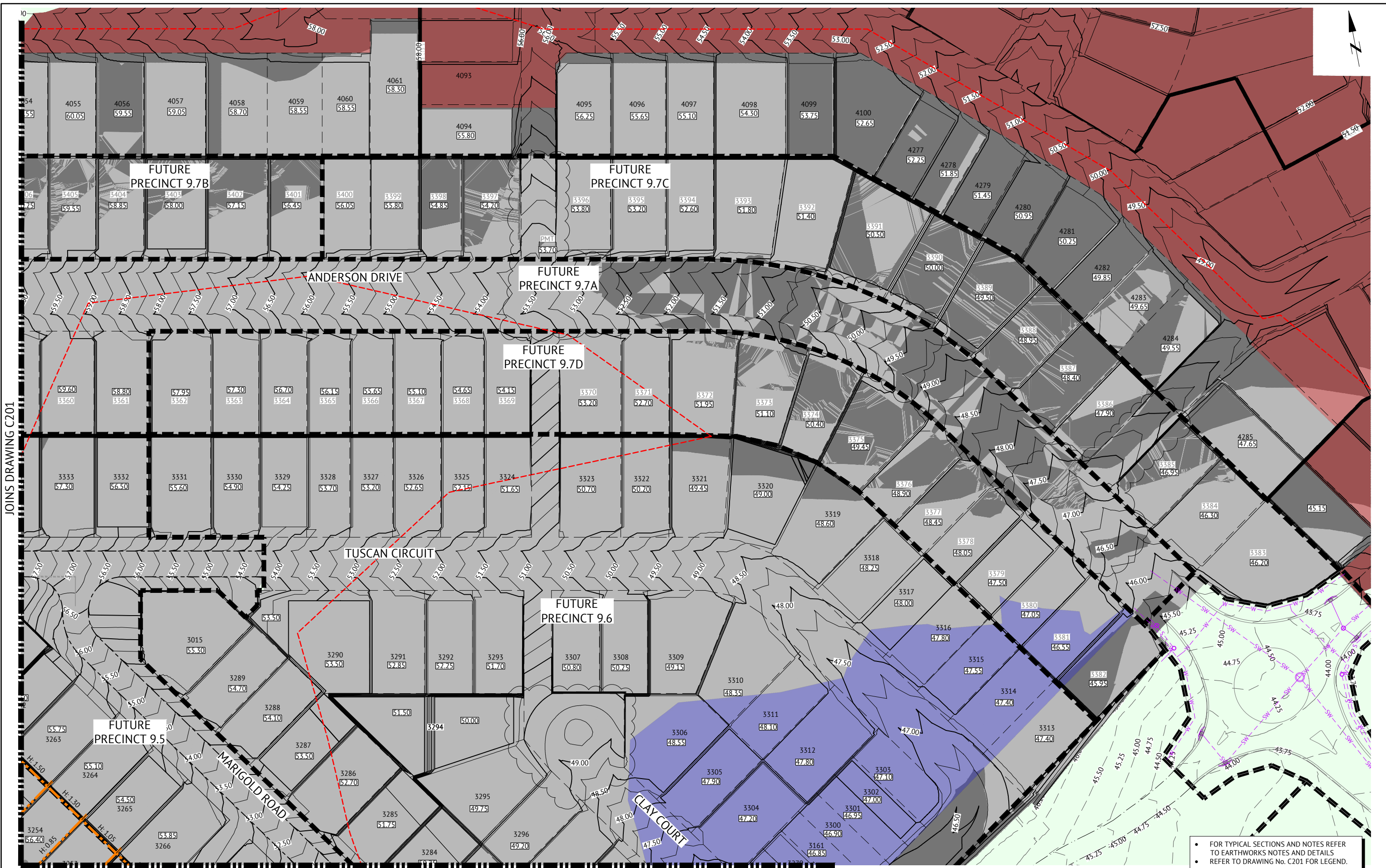
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CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**BULK EARTHWORKS LAYOUT PLAN - SHEET 2**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C202**  
 REV  
**C**



JOINS DRAWING C201

JOINS DRAWING C202

• FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS  
 • REFER TO DRAWING No. C201 FOR LEGEND.

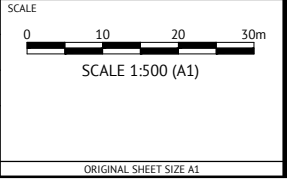
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
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07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
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**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**BULK EARTHWORKS LAYOUT PLAN - SHEET 3**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C203**  
 REV  
**C**

## 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 <sup>(a)</sup>	EWL or FSL +/- 50mm
CUT BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 150mm <sup>(b)</sup>
FILL BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 300mm <sup>(b)</sup>
EARTHWORKS IN PARKS	EWL or FSL +/- 50mm

- <sup>(a)</sup> TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.  
<sup>(b)</sup> 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/m<sup>3</sup> OF TOPSOIL)
- DOLOMITE (15kg/m<sup>3</sup> OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m<sup>3</sup> OF TOPSOIL)
- FERTILISER (0.4kg/m<sup>3</sup> OF TOPSOIL)

### B-GRADE QUALITY TOPSOIL AMELIORATION:

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

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**PATRICK BRADY**

SCALE

ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**BULK EARTHWORKS NOTES AND DETAILS - SHEET 1**

JOB CODE

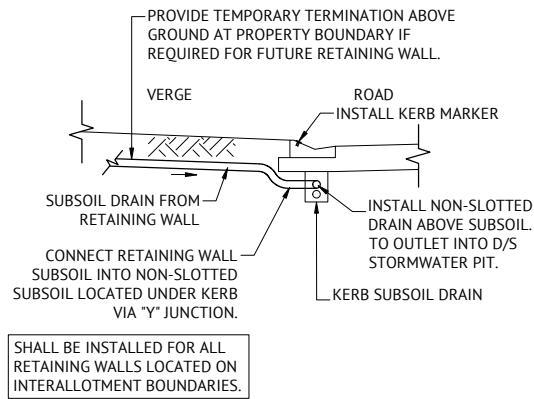
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SHEET NUMBER

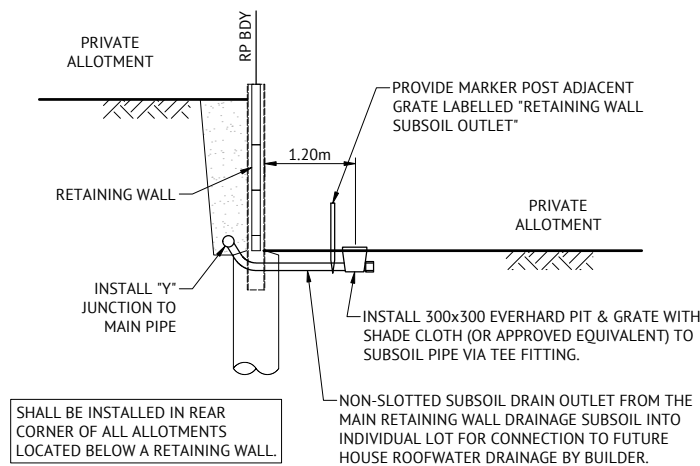
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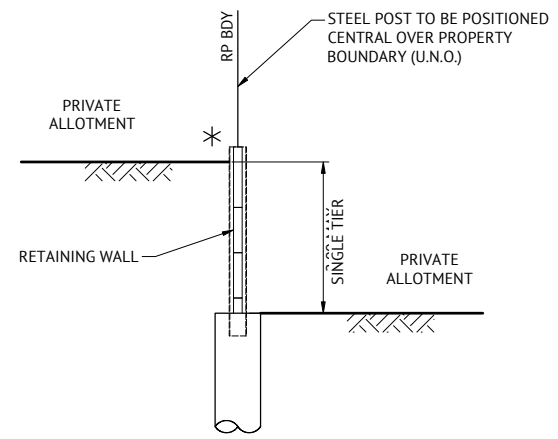
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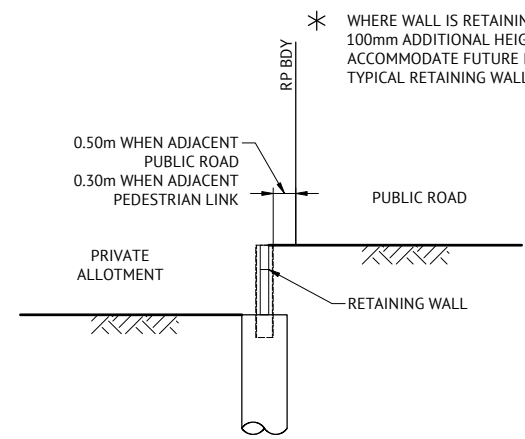
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N.T.S.



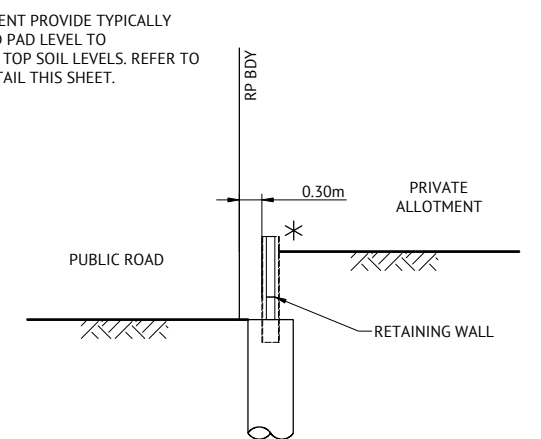
**TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS**  
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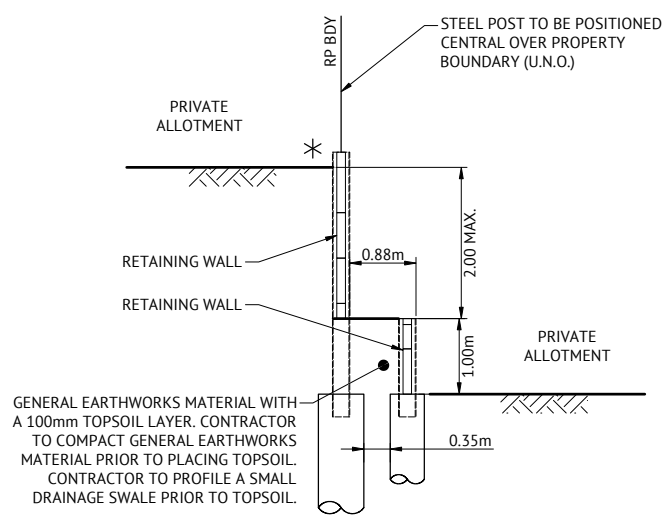
**TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT 0.4m-2m MAX HIGH**  
N.T.S.



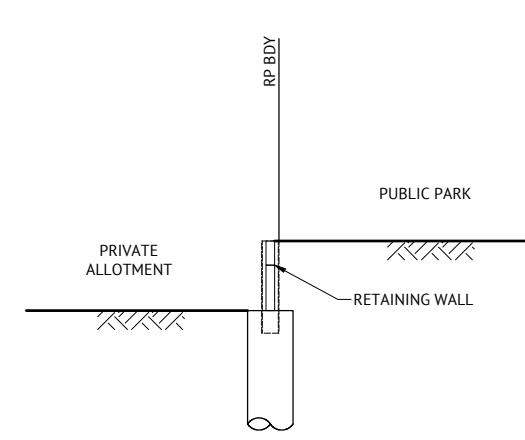
**TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER**  
N.T.S.



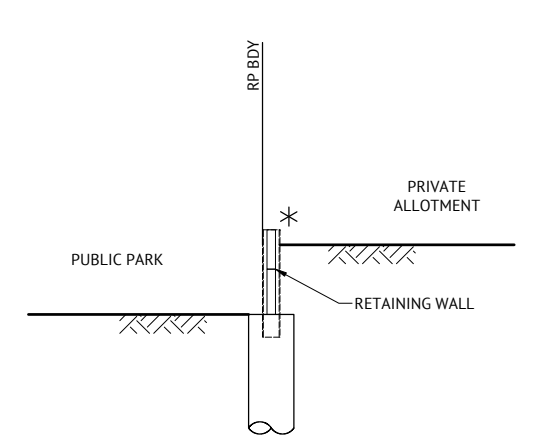
**TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER**  
N.T.S.



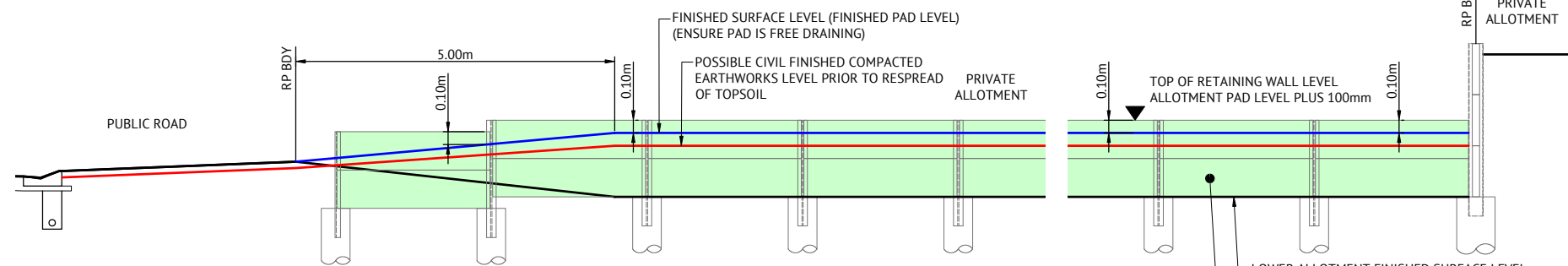
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N.T.S.



**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.

**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 ENCRANCH 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**

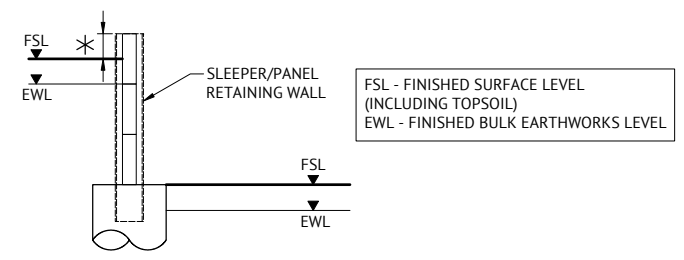
PROVIDE FENCE BRACKETS TO ALL RETAINING WALLS. NO BRACKETS TO BE PROVIDED WITHIN THE FIRST 5m FROM BOUNDARY FOR INTER-ALLOTMENT RETAINING WALLS.

**SAFETY FENCES**

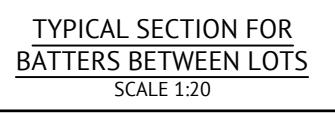
ALL CONSTRUCTED RETAINING WALLS  $\geq$  1.0m HEIGHT SHALL BE PROVIDED WITH PEDESTRIAN EXCLUSION FENCING INSTALLED ALONG THE TOP OF THE RETAINING WALL. SAFETY FENCING SHALL BE ORANGE BUNTING SECURELY FIXED TO STAR PICKETS.

**RETAINING WALL DRAINAGE BACKFILL**

RETAINING WALL DRAINAGE BACKFILL SHALL BE CAPPED AND THOROUGHLY COMPACTED ALONG THE FULL LENGTH OF WALL IN ACCORDANCE WITH THE STRUCTURAL ENGINEERING DESIGN DETAILS.



**TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL**  
N.T.S.



**TYPICAL SECTION FOR BATTERS BETWEEN LOTS**  
SCALE 1:20

FOR CONSTRUCTION				
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RPEQ 7112

SCALE  
NTS

ORIGINAL SHEET SIZE A1

CLIENT  
MIRVAC QLD PTY LTD

PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

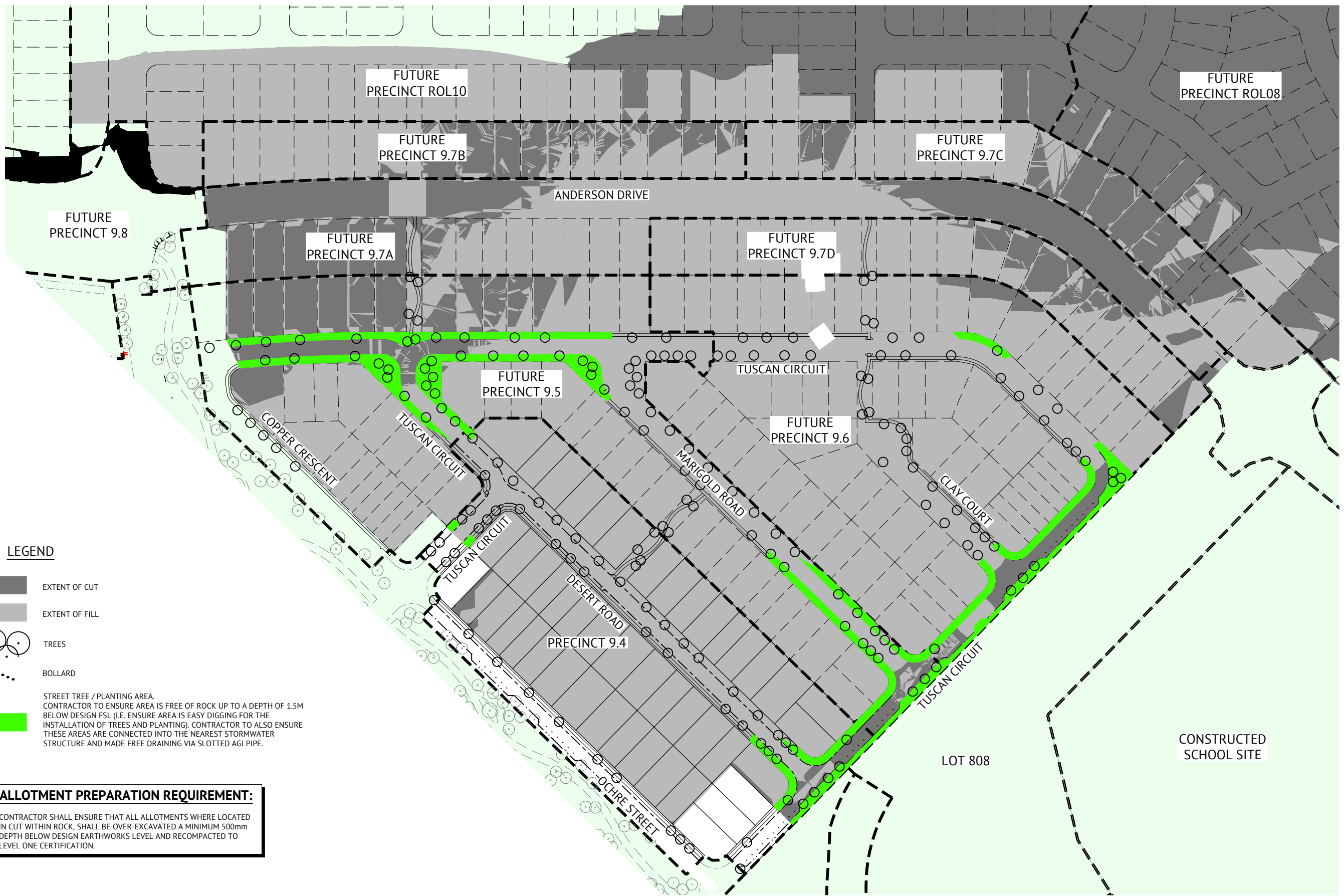
LOCATION  
TEVIOT ROAD, GREENBANK

SHEET TITLE  
BULK EARTHWORKS NOTES AND DETAILS - SHEET 2

JOB CODE  
MIR-0904

SHEET NUMBER  
C211

REV  
B



**LEGEND**

- 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.

**FOR CONSTRUCTION**

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28/10/2021	1	PRELIMINARY ISSUE	VKH	PB

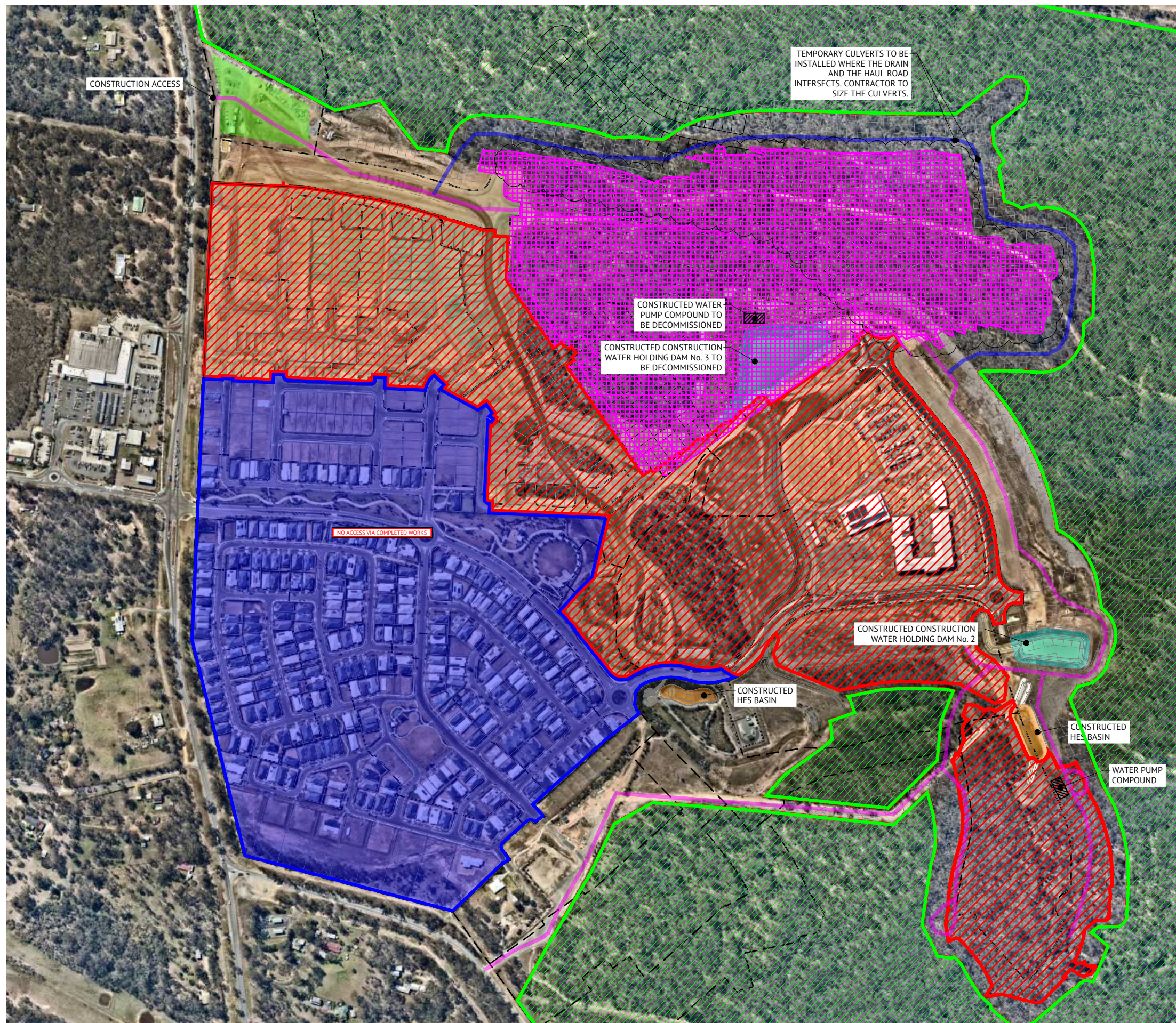
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SCALE  
 0 20 40 60m  
 SCALE 1:1000 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
 MIRVAC QLD PTY LTD  
 PROJECT  
 EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
 LOCATION  
 TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
 EARTHWORKS SUBGRADE ROCK PREPARATION LAYOUT PLAN

JOB CODE  
 MIR-0904  
 SHEET NUMBER  
 C220  
 REV  
 B



**LEGEND**

- PROPOSED PERMANENT ALL WEATHER HAUL ROAD
- CONSTRUCTED PERMANENT ALL WEATHER HAUL ROAD
- PROPOSED CONTRACTOR SITE COMPOUND
- HES BASIN
- CONSTRUCTION WATER HOLDING DAM (CWD)
- WATER PUMP COMPOUND LOCATION. PROVIDE HARDSTAND WITH HIGH FLOW AND LOW FLOW PUMPING ARRANGEMENT INCLUDING ALL ASSOCIATED HARDWARE FOR DRAWING FROM ADJACENT WATER SOURCE. ARRANGEMENT TO BE SUITABLE FOR ALL WATER TRUCK TYPES.
- P9.4 EARTHWORKS AREA
- VEGETATION TO BE RETAINED
- CONSTRUCTED AREAS, NO CONSTRUCTION ACCESS WITHOUT PRIOR APPROVAL
- CONSTRUCTION AREAS

**NOTES:**

1. USE CONSTRUCTION WATER DAM WHEN WATER IS AVAILABLE.
2. REFER TO SEDIMENT AND EROSION CONTROL DRAWINGS FOR DRAINS TO CONSTRUCTION WATER DAM ON SITE.
3. INTENT OF THE WATER RE-USE STRATEGY SHOWN ON THIS PLAN IS TO CAPTURE ALL STORMWATER FROM SITE IN THE EXISTING DAMS AND THE CONSTRUCTION WATER HOLDING DAM FOR RE-USE BY CONTRACTOR FOR ANY RELEVANT SITE AND CONSTRUCTION ACTIVITIES.
4. WHILE ALL MEASURES HAVE BEEN TAKEN TO MAKE CONSTRUCTION WATER AVAILABLE ON SITE TO THE CONTRACTOR FOR USE DURING CONSTRUCTION, IT REMAINS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR TO ENSURE CONSTRUCTION WATER IS AVAILABLE FOR ALL CONSTRUCTION ACTIVITIES RELEVANT TO THIS CONTRACT.

**NOTE:**  
 ALL WORKS WITHIN THE Q100 FLOOD EXTENT OF THE EXISTING CHANNEL SHALL NOT REDUCE THE EXISTING FLOODED CROSS SECTIONAL AREA AND ARE RESTRICTED TO MINOR SURFACE EXCAVATION AND SURFACE TREATMENT WORKS.

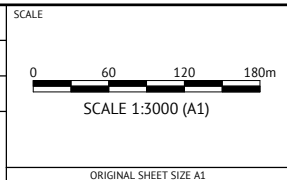
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
30/06/2021	C	UPDATED SCALE	KK	PB
07/04/2022	B	UPDATED EARTHWORKS EXTENT	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
23/11/2021	1	ORIGINAL ISSUE	VKH	PB



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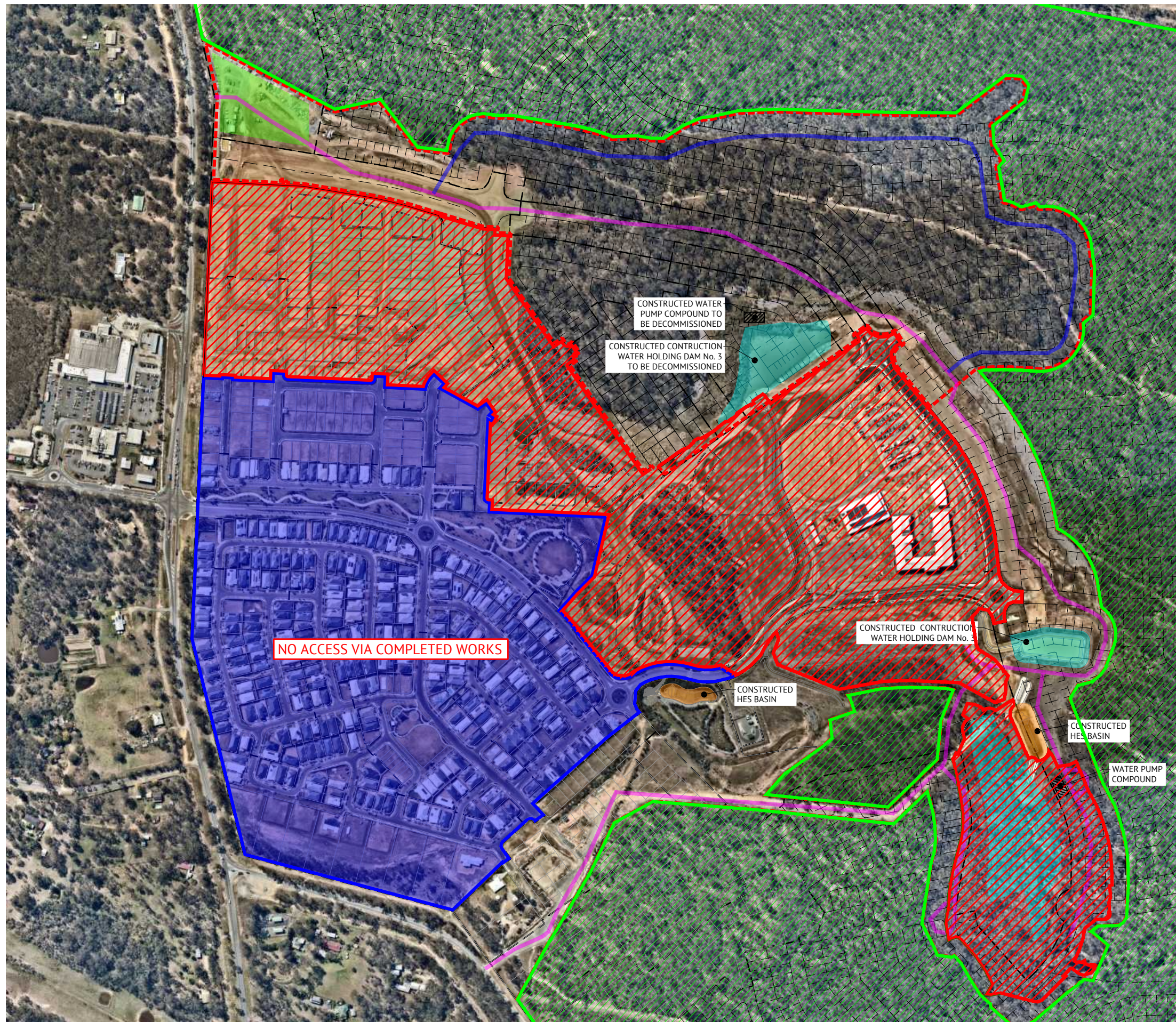
CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**HAUL ROADS & CONSTRUCTION WATER DETAILS**

JOB CODE <b>MIR-0904</b>	
SHEET NUMBER <b>C230</b>	REV <b>C</b>



**LEGEND**

- - - PRECINCT 9.4 PRINCIPAL CONTRACTOR AREA
- PROPOSED HAUL ROAD
- CONSTRUCTED HAUL ROAD
- PROPOSED CONTRACTOR SITE COMPOUND
- CONSTRUCTION WATER HOLDING DAM (CWD)
- WATER PUMP COMPOUND LOCATION
- VEGETATION TO BE RETAINED
- CONSTRUCTED AREAS. NO CONSTRUCTION ACCESS WITHOUT PRIOR APPROVAL
- CONSTRUCTION AREAS
- TEMPORARY CULVERTS

**NOTE:**  
 ALL WORKS WITHIN THE Q100 FLOOD EXTENT OF THE EXISTING CHANNEL SHALL NOT REDUCE THE EXISTING FLOODED CROSS SECTIONAL AREA AND ARE RESTRICTED TO MINOR SURFACE EXCAVATION AND SURFACE TREATMENT WORKS.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
30/06/2021	C	UPDATED SCALE	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
23/11/2021	1	ORIGINAL ISSUE	VKH PB
			REC APP

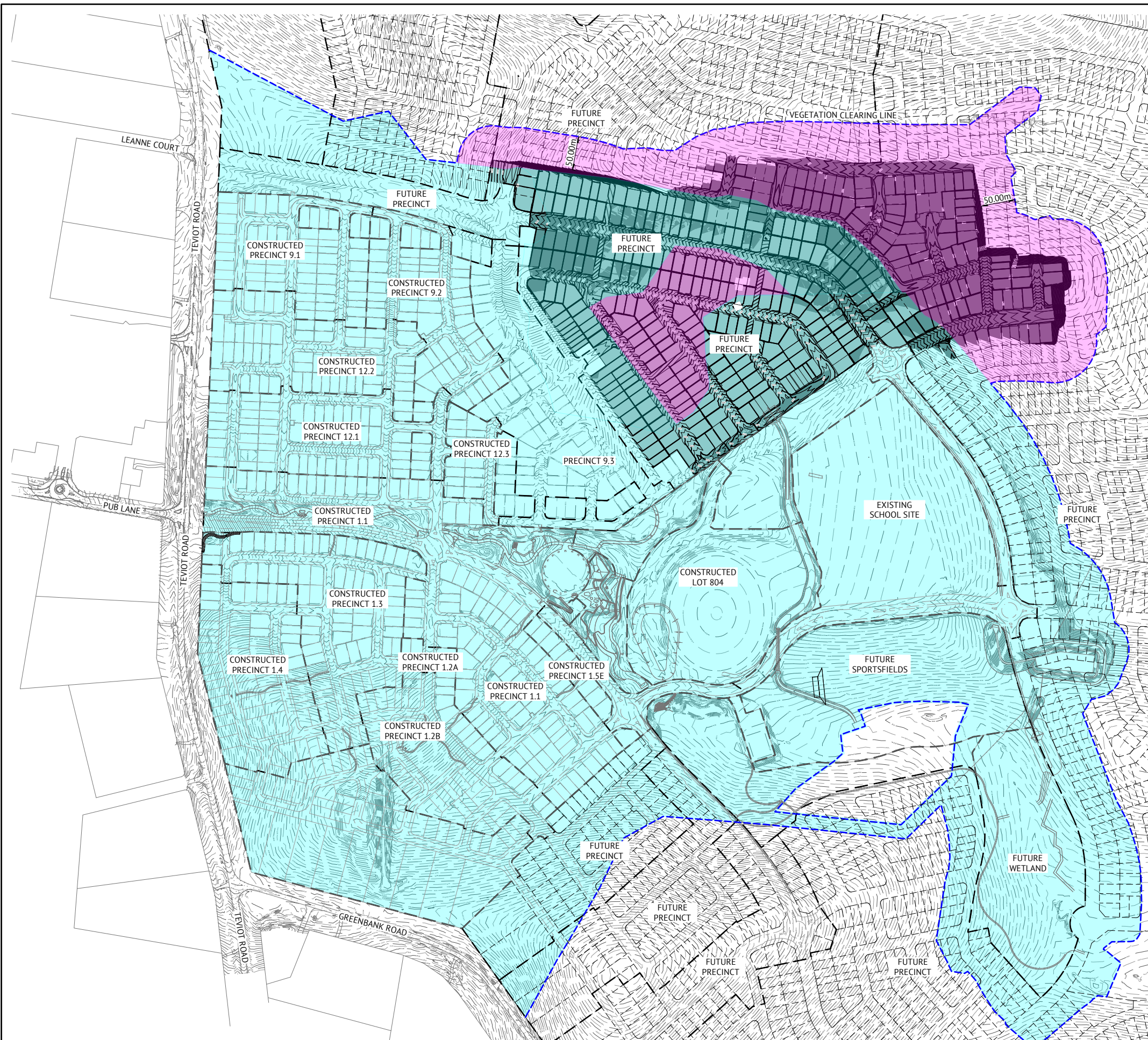
**BRISBANE OFFICE**  
 LEVEL 11, 300 ADELAIDE STREET  
 BRISBANE, QLD 4000  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
 CHECKED  
**R BARGER**  
 PROJECT MANAGER  
**S STEINHOFER**  
 PROJECT DIRECTOR  
  
**PATRICK BRADY** RPEQ 7112

SCALE  
  
 SCALE 1:3000 (A1)  
 ORIGINAL SHEET SIZE A1

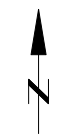
CLIENT **MIRVAC QLD PTY LTD**  
 PROJECT **EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION **TEVIOT ROAD, GREENBANK**  
 SHEET TITLE **PRINCIPAL CONTRACTOR AREAS PLAN**

JOB CODE		<b>MIR-0904</b>
SHEET NUMBER	REV	
<b>C240</b>	<b>C</b>	



**LEGEND**

- PROPOSED CLEARING EXTENT
- CONSTRUCTED CLEARING EXTENT
- PROPOSED EXTENT OF CUT
- PROPOSED EXTENT OF FILL
- VEGETATION CLEARING EXTENT BOUNDARY
- 12.00 PROPOSED MAJOR CONTOURS (1.00m)
- PROPOSED MINOR CONTOURS (0.50m)
- EXISTING MAJOR CONTOURS (1.00m)
- 12.0 EXISTING MINOR CONTOURS (0.50m)



**NOTE:**  
 IF THE ISLAND OF VEGETATION IS TO BE RETAINED, THE CONTRACTOR IS TO UNDERTAKE THE FOLLOWING:

1. A FAUNA SPOTTER CATCHER TO GO THROUGH THE RETAINED VEGETATION AREA PRIOR TO COMMENCEMENT OF CLEARING THE EASTERN SIDE OF KESSELS BOULEVARD.
2. ERECT TREE PROTECTION FENCING (STAR PICKET WITH HAZARD MESH) ALONG THE CLEARING BOUNDARY SHOULD DETER GROUND DWELLING SPECIES FROM RE-ENTERING THE RETAINED VEGETATION AREA WHILE CONSTRUCTION IS OCCURRING.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
23/11/2021	1	ORIGINAL ISSUE	REC APP

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DESIGNED  
K KIWANG  
 CHECKED  
R BARGER  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
 PATRICK BRADY RPEQ 7112

SCALE  
 0 60 120 180m  
 SCALE 1:3000 (A1)  
 ORIGINAL SHEET SIZE A1

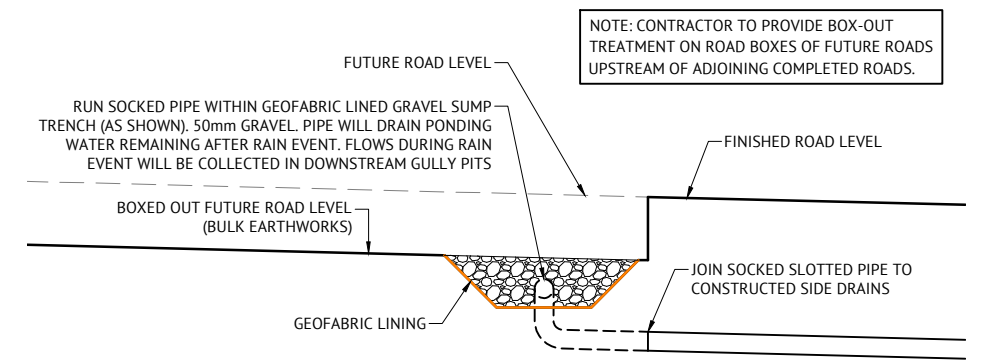
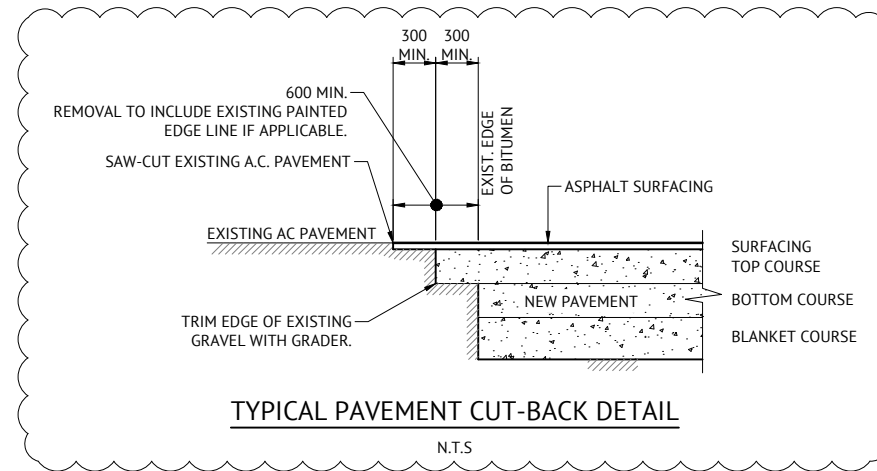
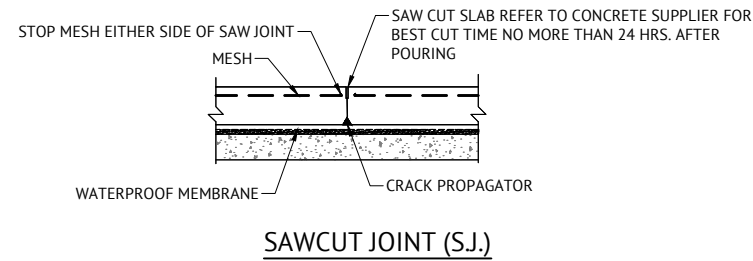
CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**VEGETATION CLEARING SECTIONS & NOTES**

JOB CODE		<b>MIR-0904</b>
SHEET NUMBER	REV	
<b>C250</b>	<b>B</b>	



**NOTES**

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
- 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.
- 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.
- 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.
- ALLOTMENT FILLING TO BE COMPACTED TO 95% (min) OF THE R.D.D. (AS 1289 - TESTS E1.1, E4.1).
- LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS APPROVED BY THE SUPERINTENDENT TO ACHIEVE SATISFACTORY CONNECTION TO THE EXISTING WORKS.
- SIDE DRAINS AND MITRE DRAINS TO BE CONSTRUCTED ADJACENT TO ALL KERB AND CHANNEL.
- PROVIDE FLUSH POINTS TO SUBSOIL DRAINS, LOCATIONS TO BE CONFIRMED ON SITE.
- 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.
- GULLIES AND GULLY GRATES SHALL BE TO STD. DRGs BSD-8051 - BSD-8059.
- KACEY GALV. STEEL KERB ADAPTORS ARE TO BE INSTALLED TO THE REQUIREMENTS OF THE LOCAL COUNCILS STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL LOTS SHOWN BOXED TO HAVE ROOFWATER FOOTPATH CROSSINGS TO KERB. CROSSINGS ARE TO BE 88.9 DIA. GALV. CHS. TO KACEY KERB ADAPTOR.
- ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
- 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.
- ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
- HAZARD MARKERS (D4-4A) TO BE PLACED AT THE END OF NEW WORKS AS DIRECTED BY SUPERINTENDENT.
- SITE CBR VALUE AND PAVEMENT DESIGN AND DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- TO BE READ IN CONJUNCTION WITH ALL STORMWATER DRAINAGE LAYOUT PLANS & ROADWORKS DETAILS.



NOTE: CONTRACTOR TO PROVIDE BOX-OUT TREATMENT ON ROAD BOXES OF FUTURE ROADS UPSTREAM OF ADJOINING COMPLETED ROADS.

**ROADWORKS NOTES**

- 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.
- 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.
- TRANSITION KERB AND CHANNEL TO BARRIER KERB SMOOTHLY OVER MIN. 1.0m LENGTH.
- 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.
- 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.

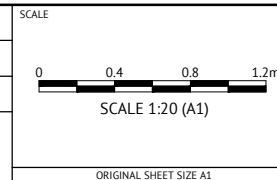
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	C	CUT-BACK DETAIL UPDATED	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
12/11/2021	Z	90% REVIEW ISSUE	KK	PB
15/10/2021	A	PRELIMINARY ISSUE	VKH	PB



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DESIGNED  
**KLYNT KIWANG**  
 CHECKED  
**ANDREW LANGDON**  
 PROJECT MANAGER  
**SIMON STEINHOFER**  
 PROJECT DIRECTOR  
  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**ROADWORKS NOTES AND DETAILS**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C300**  
 REV  
**C**

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	TUSCAN CIRCUIT
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10 <sup>5</sup>
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

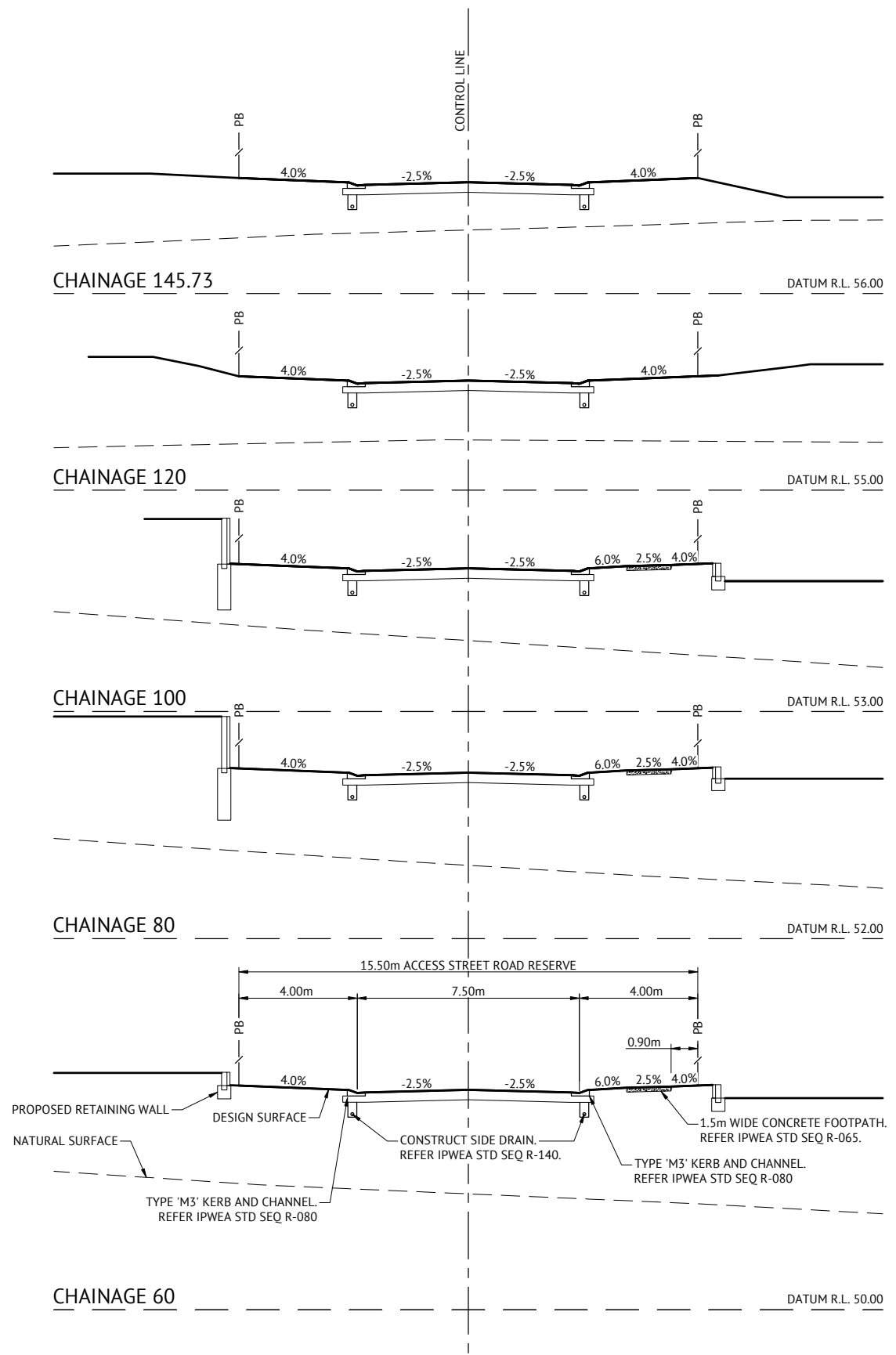
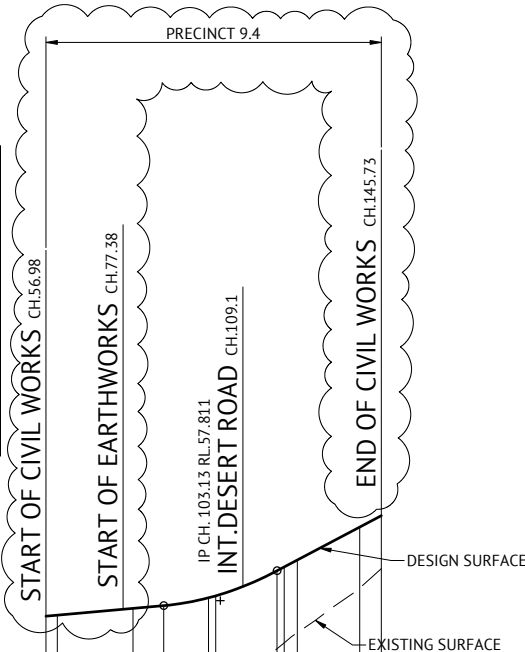
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Vertical Grade Length (m)

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

DATUM R.L.48.0

CUT (-)/FILL DEPTH	3.502	3.513	3.130	2.818	2.489	2.160	2.061	2.006	1.918	1.611	1.399
LHS LIP LEVEL	57.314	57.341	57.518	57.591	57.799	57.851	58.515	58.613	58.797	59.668	59.970
RHS LIP LEVEL	57.314	57.341	57.518	57.591	57.799	57.851	58.515	58.613	58.797	59.668	59.970
DESIGN SURFACE	57.401	57.428	57.605	57.678	57.886	57.938	58.602	58.700	58.884	59.755	60.057
NATURAL SURFACE	53.899	53.915	54.475	54.860	55.397	55.478	56.540	56.894	56.965	58.144	58.658
CHAINAGE	56.98	60.00	80.00	88.13	100.00	101.88	118.13	120.00	123.48	140.00	145.73

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



CROSS SECTION  
SCALE 1:100

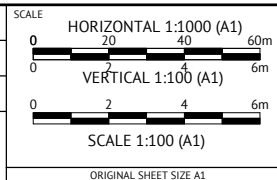
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
15/07/2022	C	AMENDED LONG SECTION	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	2	90% REVIEW ISSUE	KK PB
28/10/2021	1	PRELIMINARY ISSUE	VKH PB



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PROJECT MANAGER  
SIMON STEINHOFER  
PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112



CLIENT  
MIRVAC QLD PTY LTD  
PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
TUSCAN CIRCUIT (NORTH) LONG & CROSS SECTIONS

JOB CODE MIR-0904	
SHEET NUMBER C310	REV C

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	TUSCAN CIRCUIT
CLASS	ACCESS STREET (TYPICAL)
ESA's	5.90 x 10 <sup>5</sup>
SURFACE	35mm AC of 10mm MIX
PRIMER TYPE	PRIME
CBR 80	150mm
CBR 45	150mm
TOTAL BOX	335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

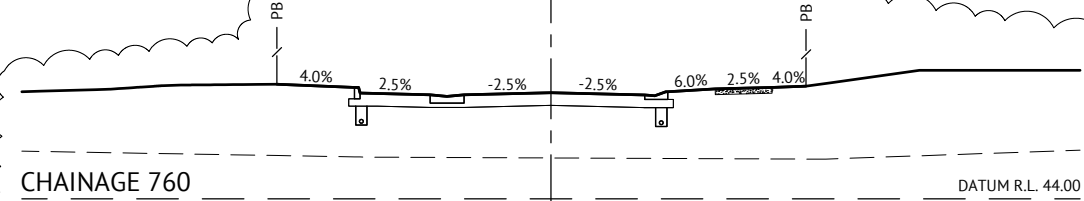
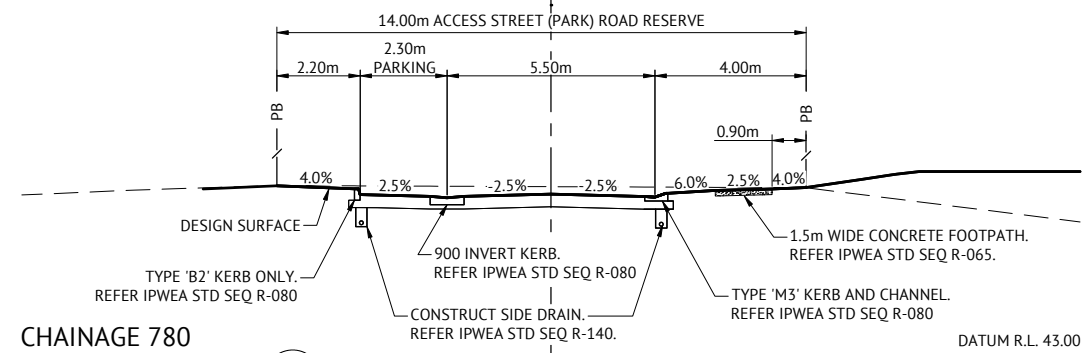
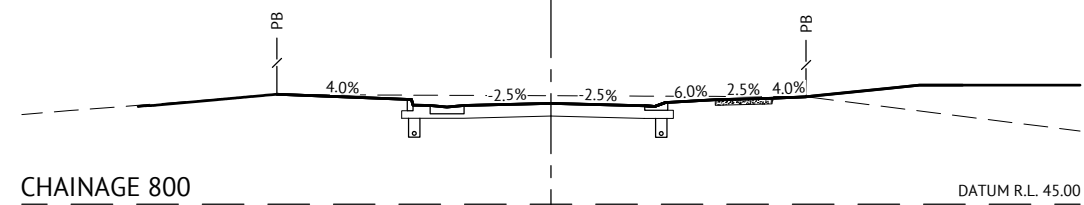
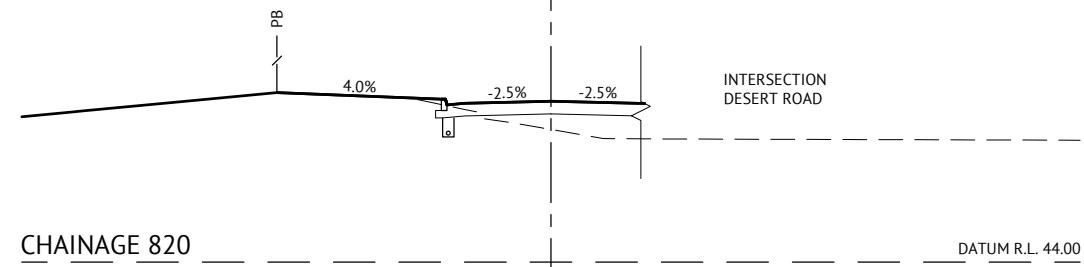
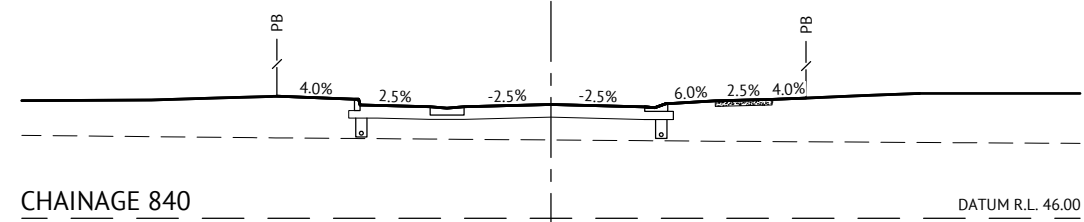
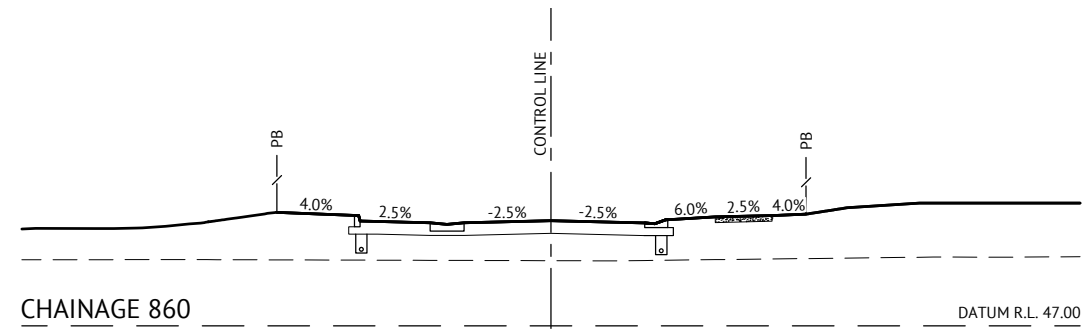
Vertical Geometry Grade (%)  
Vertical Grade Length (m)

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

DATUM R.L.39.0

CUT (-)/FILL DEPTH	1.781	1.727	1.431	1.233	1.115	0.981	0.924	0.938	1.059	1.135	1.286
LHS LIP LEVEL	46.672	46.753	47.172	47.399	47.609	48.200	48.594	48.950	49.727	50.108	50.362
RHS LIP LEVEL	46.667	46.749	47.168	47.394	47.605	*	48.946	48.946	49.722	50.104	50.357
DESIGN SURFACE	46.729	46.811	47.230	47.456	47.667	48.257	48.652	49.008	49.784	50.166	50.419
NATURAL SURFACE	44.948	45.084	45.798	46.223	46.552	47.276	47.728	48.069	48.725	49.031	49.133
CHAINAGE	756.10	760.00	780.00	790.84	800.00	820.00	830.84	840.00	860.00	869.85	877.45

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



CROSS SECTION  
SCALE 1:100

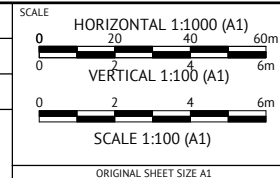
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
15/07/2022	C	AMENDED LONG SECTION AND ADDED CH760 TO CROSS SECTION	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	2	90% REVIEW ISSUE	KK PB
28/10/2021	1	PRELIMINARY ISSUE	VKH PB



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PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112



CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

TUSCAN CIRCUIT (ADJACENT PARK) ROAD LONG & CROSS SECTIONS

JOB CODE

MIR-0904

SHEET NUMBER

C311

REV

C

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- OCHRE STREET
CLASS	- ACCESS STREET (TYPICAL)
ESA's	- 5.90 x 10 <sup>5</sup>
SURFACE	- 35mm AC of 10mm MIX
PRIMER TYPE	- PRIME
CBR 80	- 150mm
CBR 45	- 150mm
TOTAL BOX	- 335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

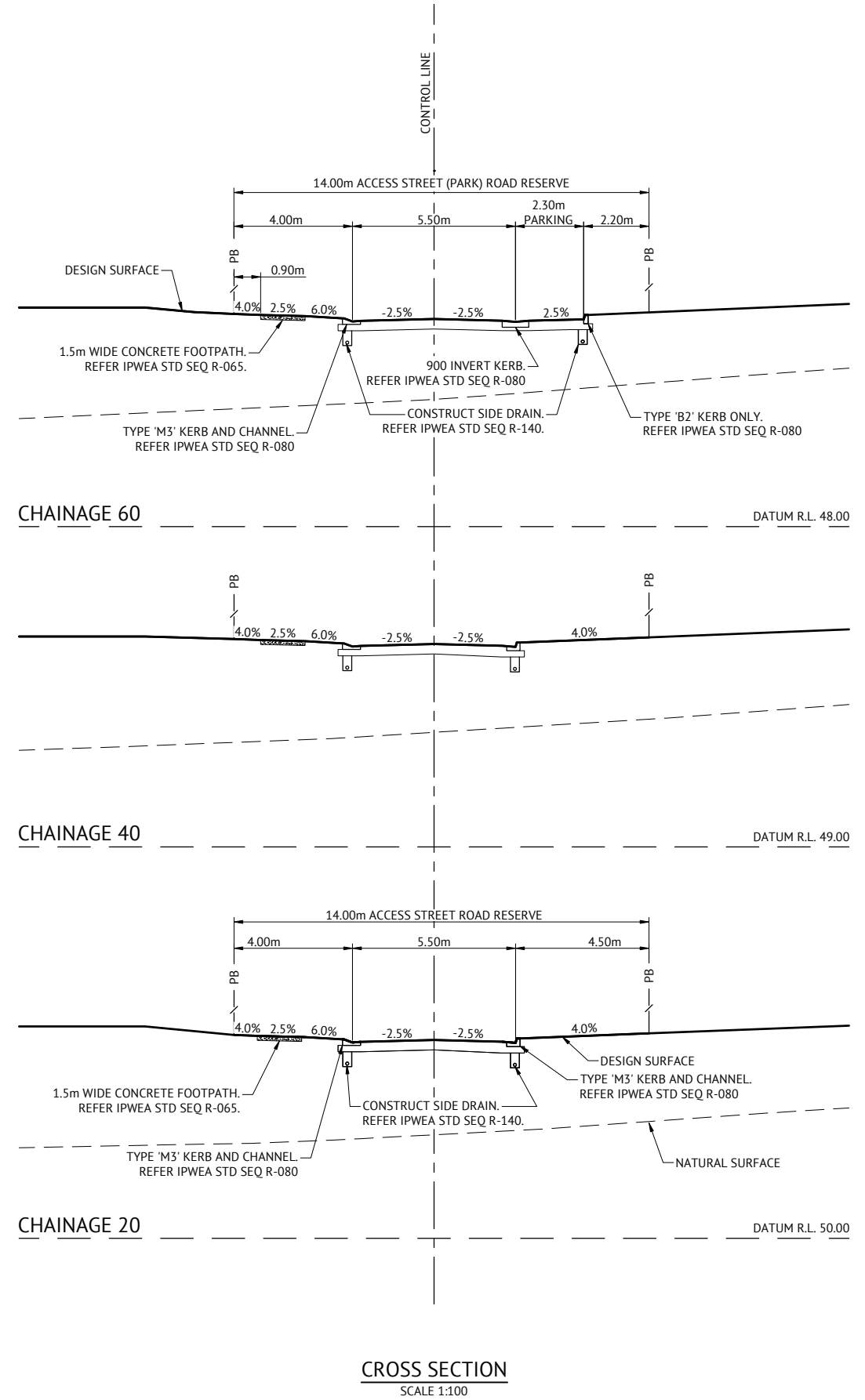
Vertical Geometry Grade (%)  
Vertical Grade Length (m)

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

DATUM R.L.44.0

CUT (-)/FILL DEPTH	3.211	3.214	3.198	2.979	2.782	2.712	2.280	2.211	2.101	1.759	1.495	1.432	1.253	1.103	1.049	0.864	0.812	0.818
LHS LIP LEVEL	56.801	56.729	56.629	55.782	55.151	54.941	54.248	54.110	53.702	53.162	52.621	52.509	52.064	51.638	51.457	50.836	50.573	50.515
RHS LIP LEVEL	56.806	56.729	56.634	55.786	55.155	54.946	54.253	54.115	53.706	53.166	52.626	52.513	52.069	51.643	51.462	50.841	50.577	50.519
DESIGN SURFACE	56.865	56.787	56.691	55.844	55.213	55.003	54.310	54.172	53.764	53.224	52.683	52.571	52.126	51.700	51.519	50.898	50.635	50.575
NATURAL SURFACE	53.654	53.573	53.493	52.865	52.431	52.291	52.031	51.961	51.663	51.465	51.188	51.139	50.873	50.597	50.470	50.035	49.823	49.757
CHAINAGE	15.85	17.75	20.00	40.00	54.89	60.00	80.00	84.89	100.00	120.00	140.00	144.16	160.00	174.16	180.00	200.00	208.50	210.75

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



CROSS SECTION  
SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
15/07/2022	C	ADDED PRECINCT NUMBER TO LONG SECTION	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	2	90% REVIEW ISSUE	KK PB
28/10/2021	1	PRELIMINARY ISSUE	VKH PB

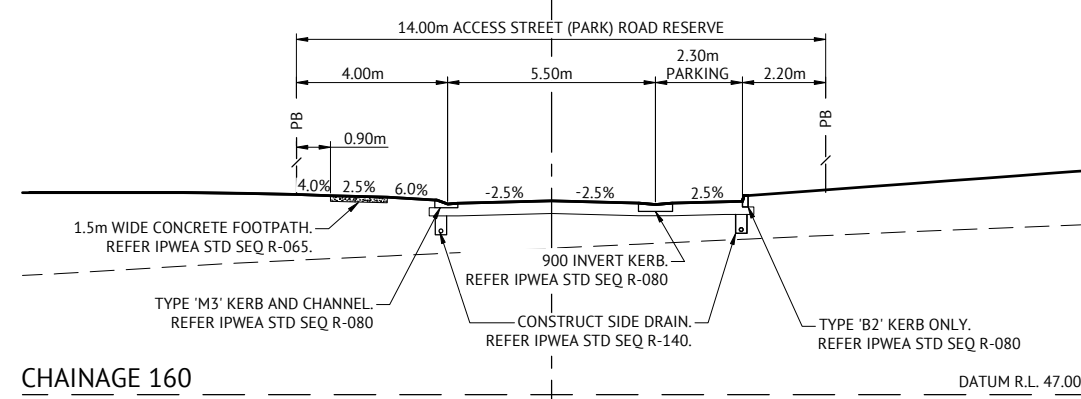
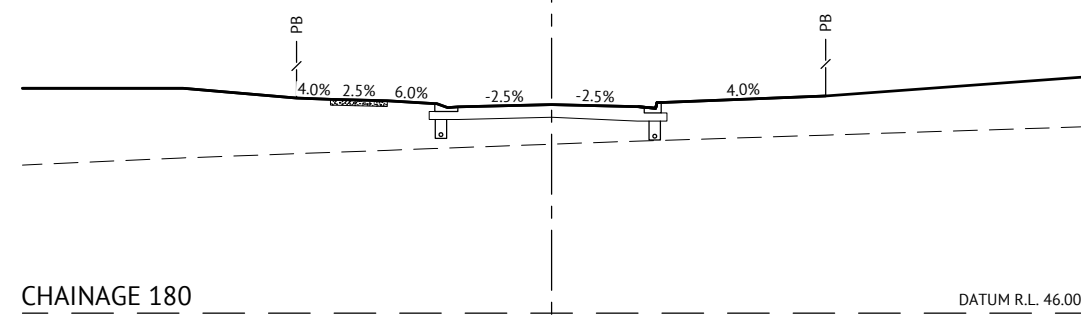
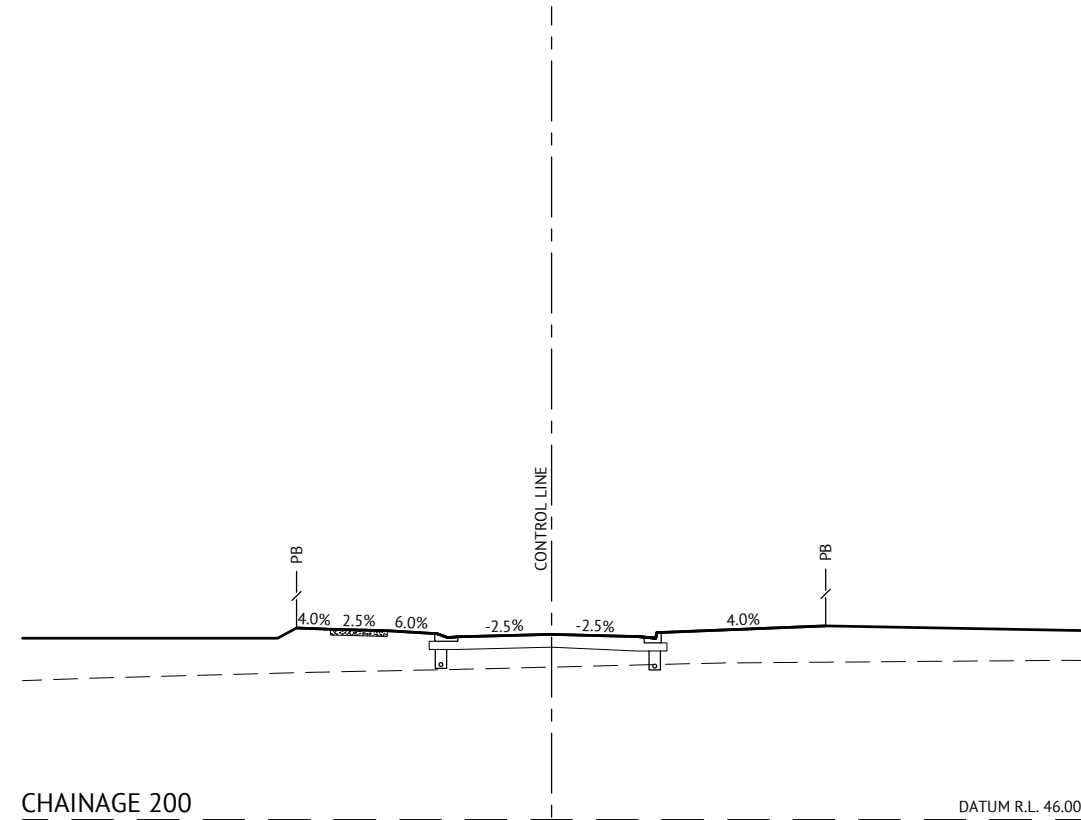
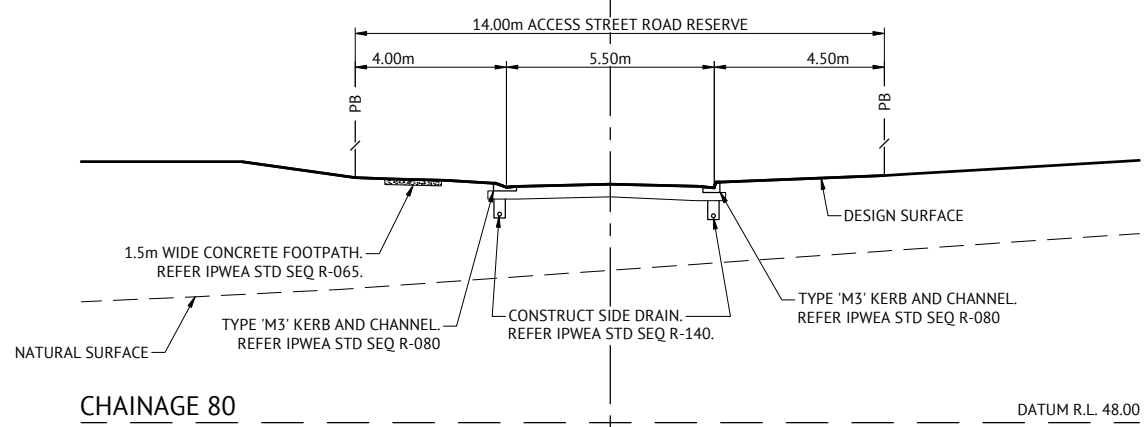
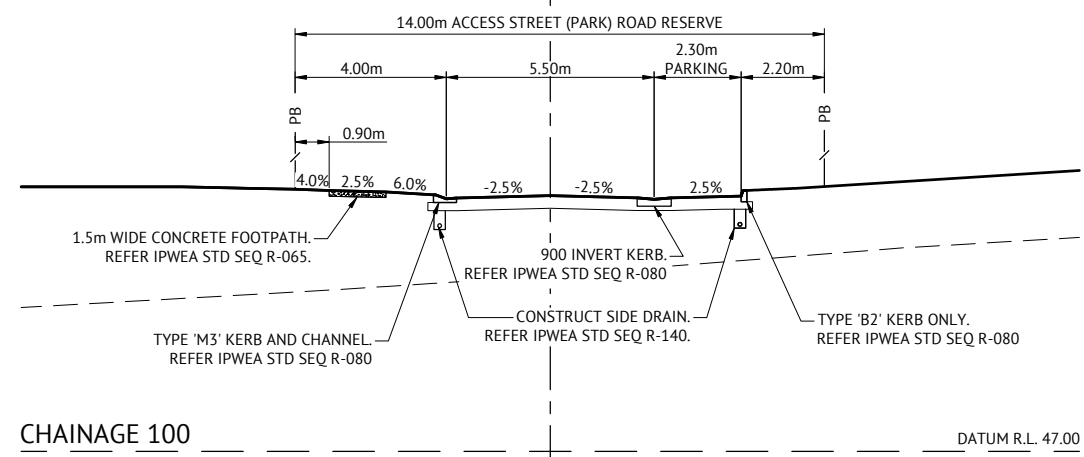
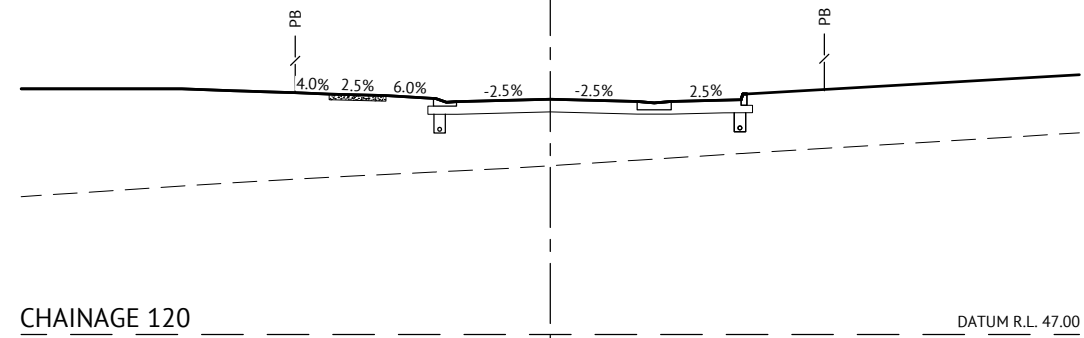
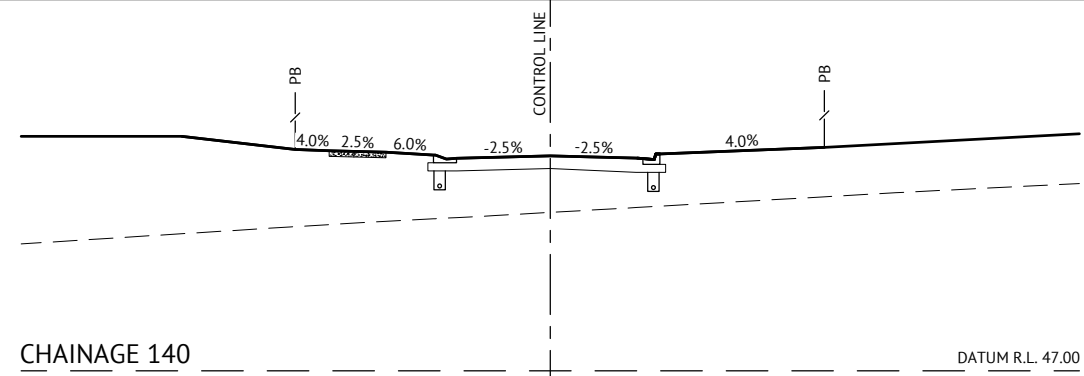
**Premise**  
BRISBANE OFFICE  
LEVEL 11, 300 ADELAIDE STREET  
BRISBANE, QLD 4000  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
KLYNT KIWANG  
CHECKED  
ANDREW LANGDON  
PROJECT MANAGER  
SIMON STEINHOFER  
PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112

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

CLIENT  
MIRVAC QLD PTY LTD  
PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
OCHRE STREET LONG & CROSS SECTIONS - SHEET 1

JOB CODE  
MIR-0904  
SHEET NUMBER  
C312  
REV  
C



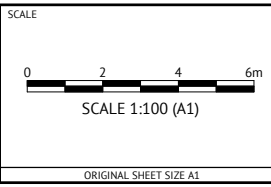
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
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28/10/2021	1	PRELIMINARY ISSUE	VKH	PB



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CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**OCHRE STREET CROSS SECTIONS - SHEET 2**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C313**  
 REV  
**B**

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	DESERT ROAD
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10 <sup>5</sup>
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

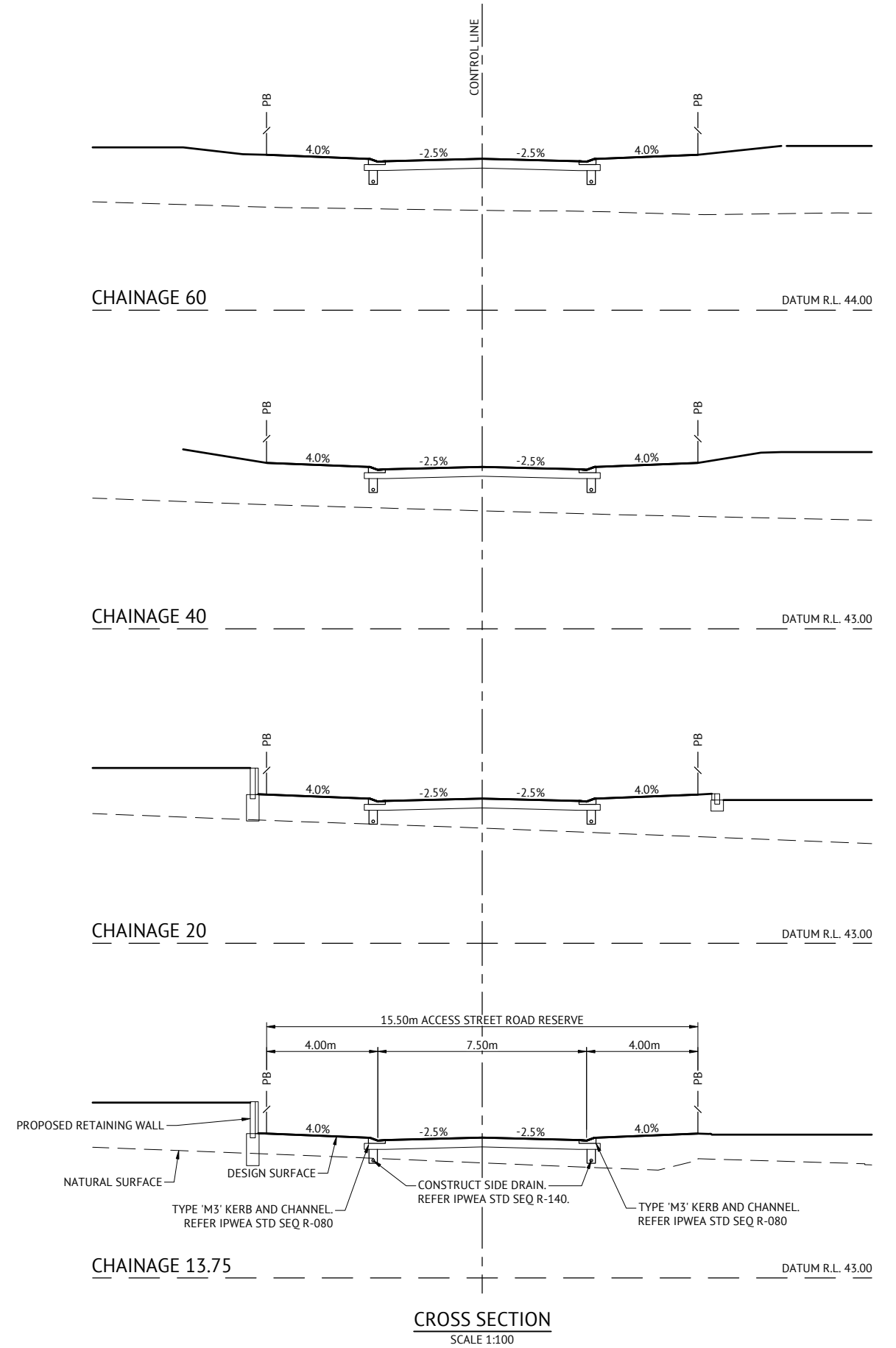
Vertical Geometry Grade (%)  
Vertical Grade Length (m)

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

DATUM R.L.41.0

CUT (-)/FILL DEPTH	1.002	0.927	0.867	1.002	1.063	1.579	1.804	1.865	2.114	2.123	2.500	2.376	2.423	2.527	2.583	2.432	2.431	2.437	2.428	2.323	2.248	
LHS LIP LEVEL				48.045	48.115	48.732	49.117	49.363	50.163	50.278	51.091	52.022	52.280	53.004	53.900	54.174	54.174	54.174	54.174	54.174	55.405	56.635
RHS LIP LEVEL				48.045	48.115	48.732	49.117	49.363	50.163	50.278	51.091	52.022	52.280	53.004	53.900	54.174	54.174	54.174	54.174	54.174	55.405	56.635
DESIGN SURFACE	48.185	48.091	48.013	48.202	48.202	48.819	49.204	49.450	50.250	50.365	51.178	52.109	52.367	53.091	53.987	54.261	54.261	54.261	54.261	55.492	56.722	
NATURAL SURFACE	47.183	47.164	47.146	47.130	47.139	47.239	47.401	47.586	48.135	48.242	48.901	49.765	50.044	50.791	51.611	51.839	51.839	51.839	51.839	52.965	54.140	
CHAINAGE	0.00	3.75	10.02	17.75	20.00	40.00	52.50	60.00	80.00	82.50	100.00	120.00	125.55	140.00	155.55	160.00	160.00	160.00	160.00	180.00	200.00	

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



CROSS SECTION  
SCALE 1:100

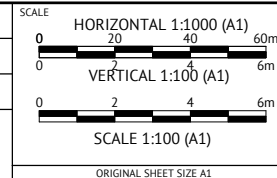
FOR CONSTRUCTION

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CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

DESERT ROAD LONG & CROSS SECTIONS - SHEET 1

JOB CODE

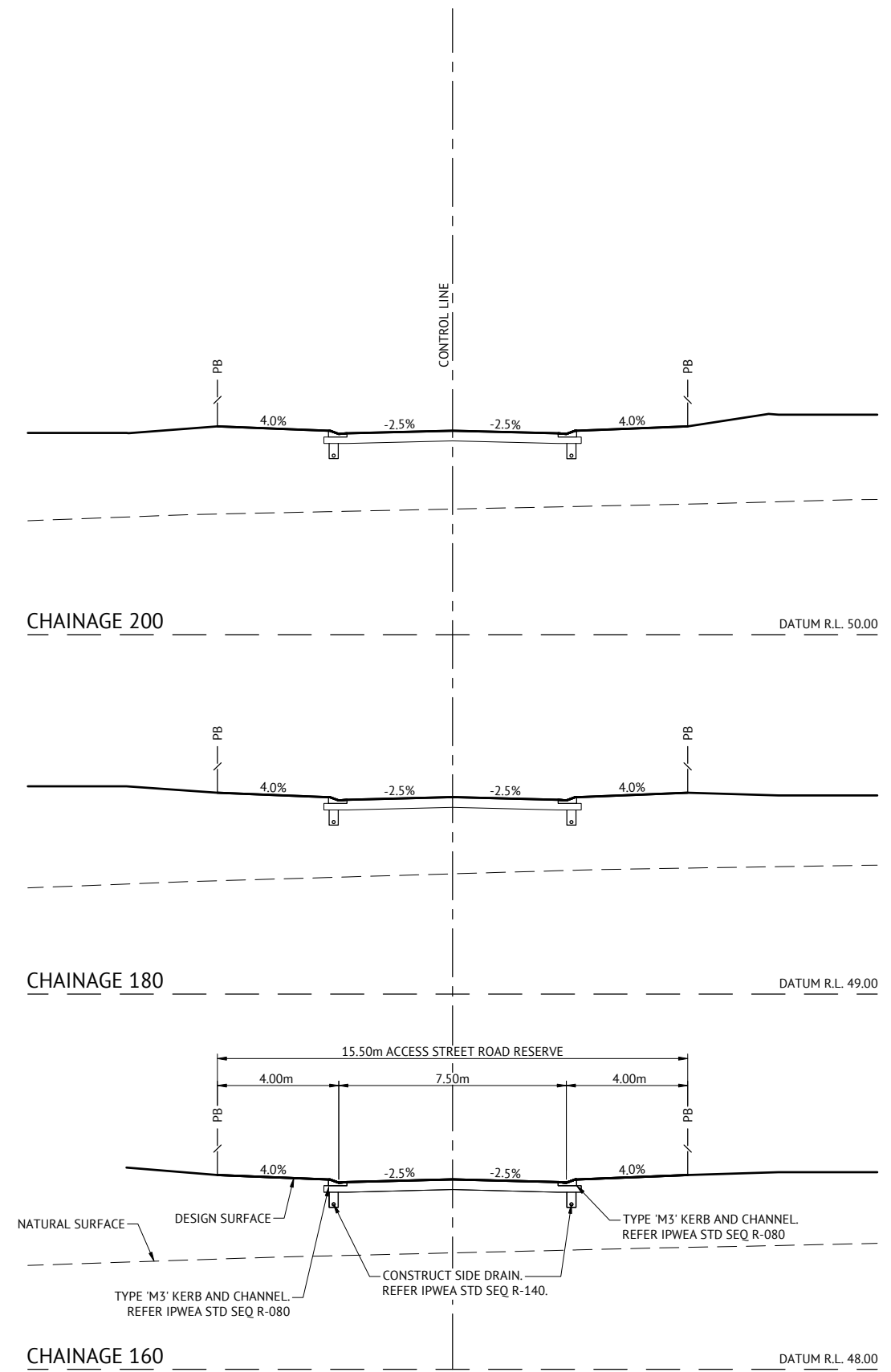
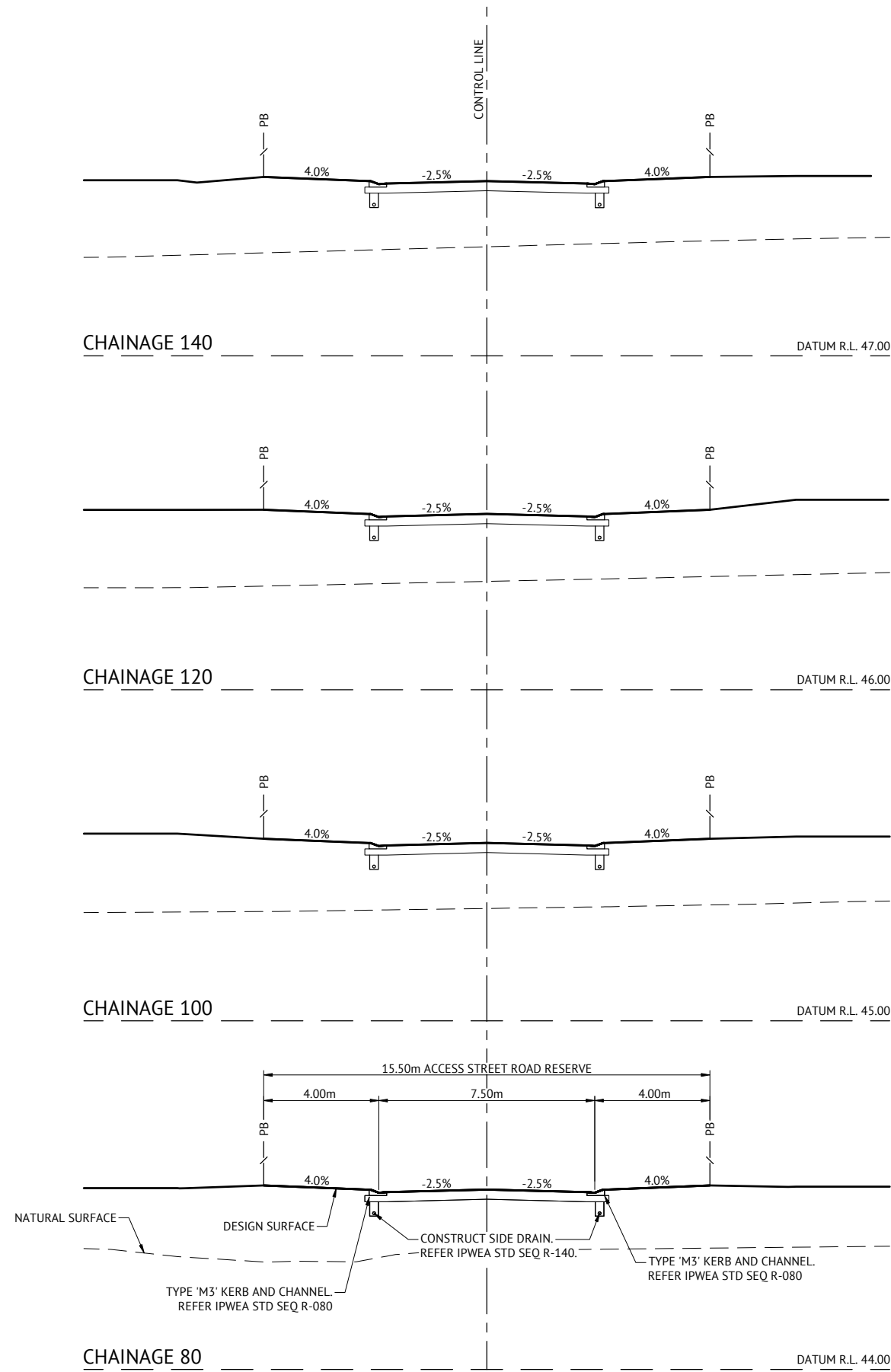
MIR-0904

SHEET NUMBER

C314

REV

B



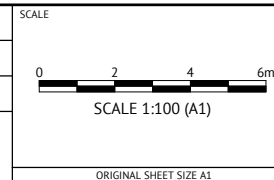
**FOR CONSTRUCTION**

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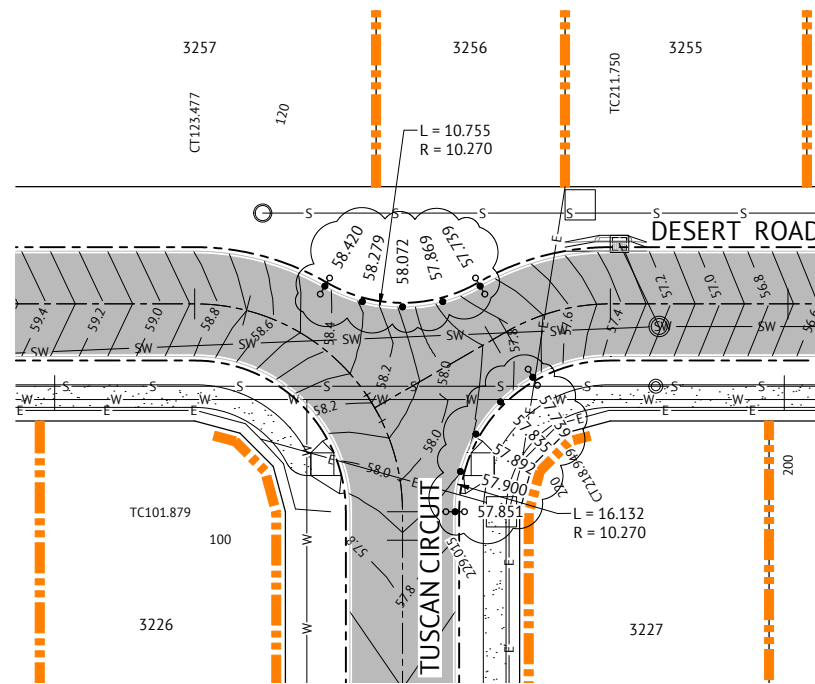
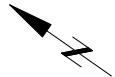
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CLIENT  
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 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**DESERT ROAD CROSS SECTIONS - SHEET 2**

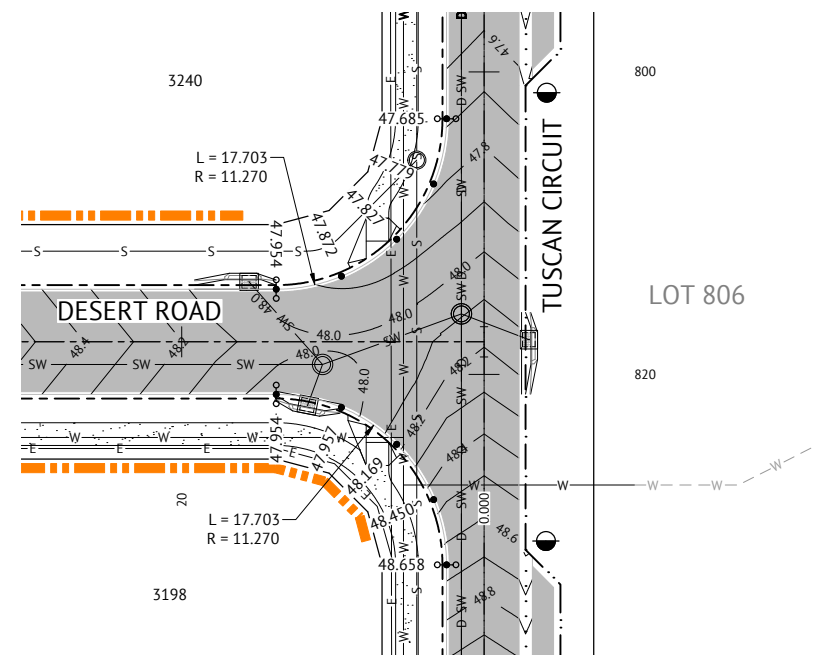
JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C315**  
 REV  
**B**



INTERSECTION TUSCAN CIRCUIT AND DESERT ROAD  
**DETAIL 1**  
 SCALE 1:250

- LEGEND - PROPOSED**
- PAVEMENT
  - 58.0 FINISHED MAJOR CONTOURS (0.20m)
  - FINISHED MINOR CONTOURS (0.10m)
  - PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
  - PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
  - PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
  - PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
  - PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
  - PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
  - LIP OF KERB LEVEL
  - TRANSITION IN KERB AND CHANNEL TYPE
  - PROPOSED STORMWATER
  - PROPOSED SEWER
  - PROPOSED WATER
  - PROPOSED ELECTRICAL
  - PROPOSED RETAINING WALL

- LEGEND - CONSTRUCTED**
- EXISTING SEWER
  - EXISTING WATER
  - EXISTING ELECTRICAL
  - EXISTING TELSTRA
  - EXISTING GAS



INTERSECTION TUSCAN CIRCUIT AND DESERT ROAD  
**DETAIL 2**  
 SCALE 1:250

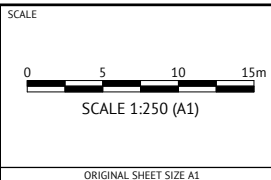
**NOTE**  
 LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	C	AMENDED LIP OF KERB LEVELS	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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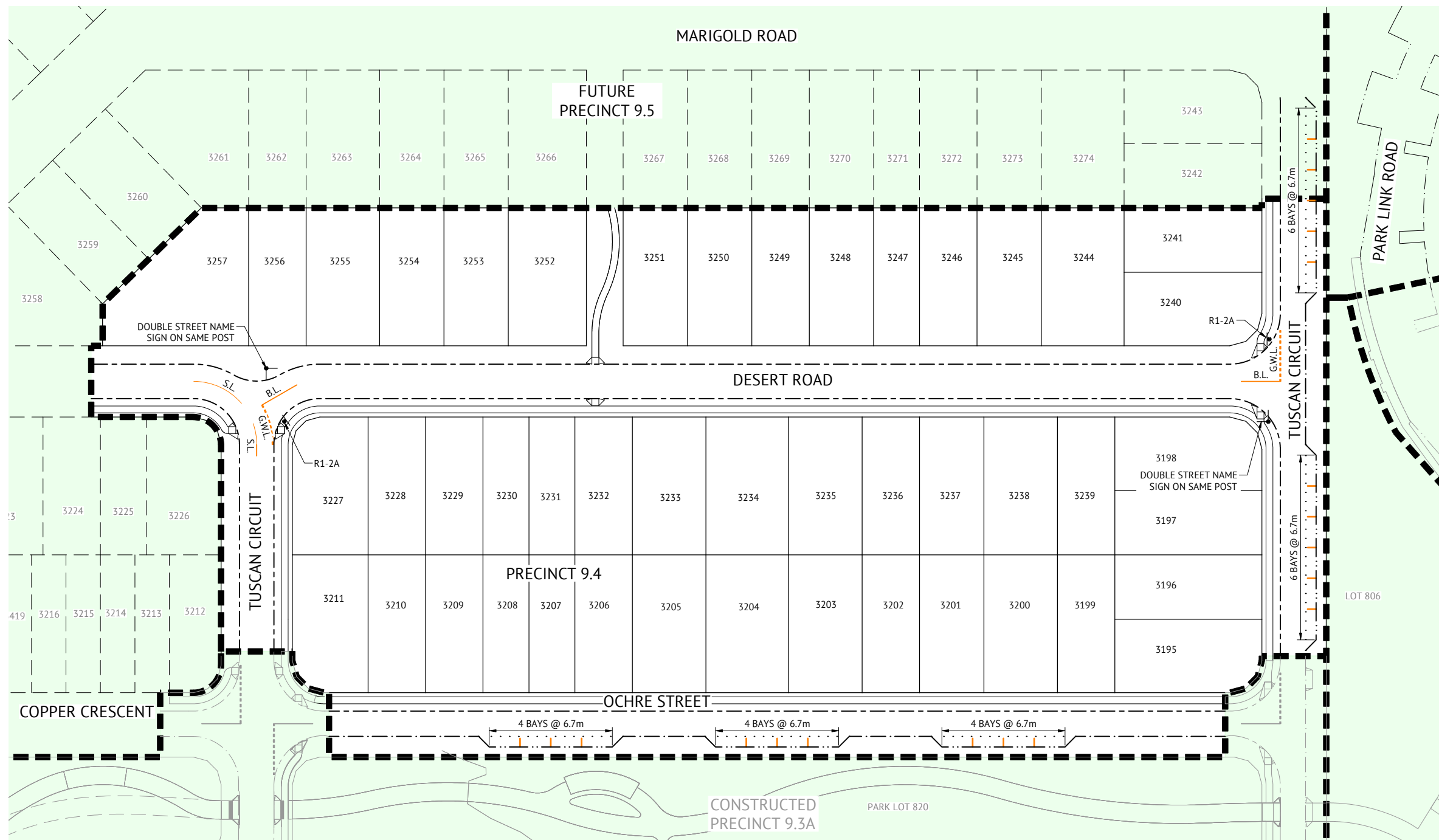
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 PROJECT DIRECTOR  
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 RPEQ 7112



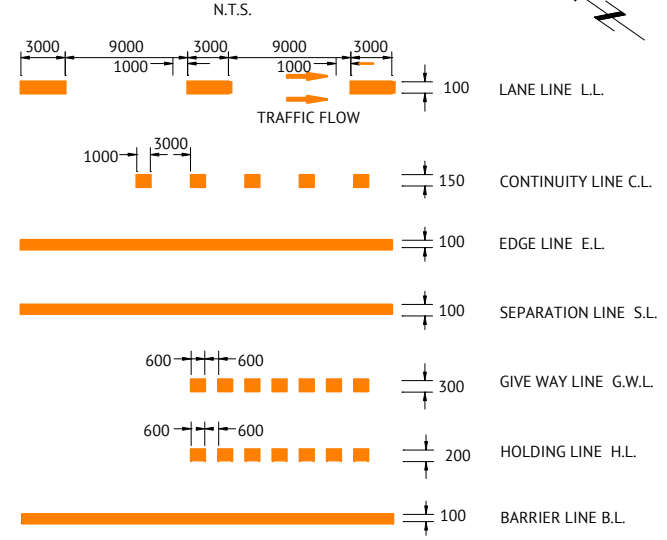
CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**INTERSECTION DETAILS LAYOUT**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C320**  
 REV  
**C**





**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 COUNCIL'S 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.

**REQUIRED SIGNS**



**PAVEMENT MARKINGS AND SIGNAGE LAYOUT**  
SCALE 1:500

**FOR CONSTRUCTION**

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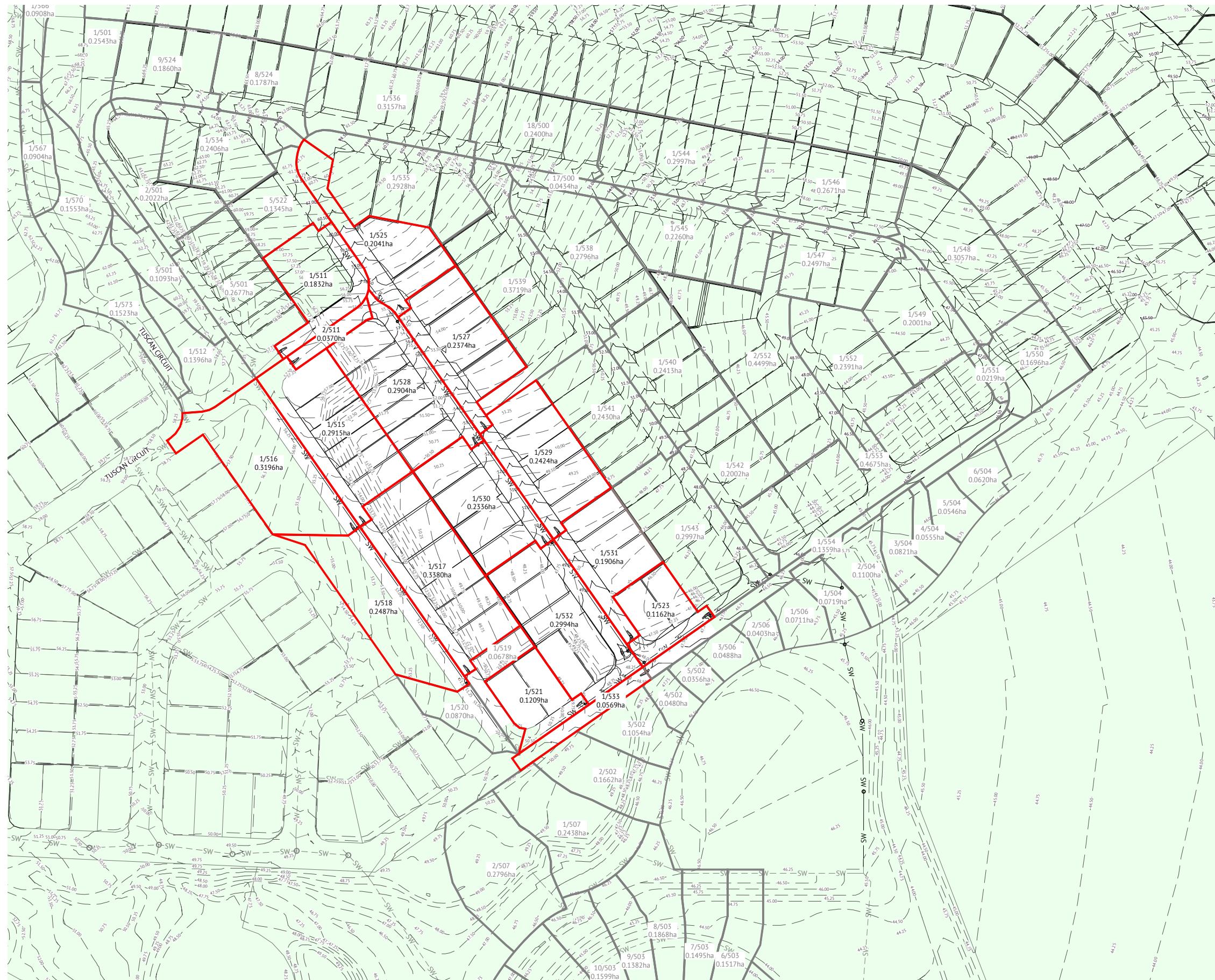
**Premise**  
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PROJECT DIRECTOR  
*PSB*  
**PATRICK BRADY** RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C330**  
REV  
**B**



**LEGEND**

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

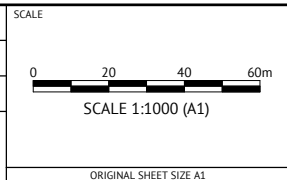
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 PROJECT DIRECTOR  
*PKB*  
**PATRICK BRADY** RPEQ 7112



CLIENT **MIRVAC QLD PTY LTD**

PROJECT **EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION **TEVIOT ROAD, GREENBANK**

SHEET TITLE **STORMWATER CATCHMENT LAYOUT PLAN**

JOB CODE		<b>MIR-0904</b>
SHEET NUMBER	REV	
<b>C400</b>	<b>B</b>	

STRUCTURE NAME	9A/500	9/500	8/500	7/500	6/500	5A/500
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA	EXISTING PIPE END
PIPE SIZE (mm)	825	1350	1350	1350	1350	
PIPE CLASS	2	2	2	2	2	
PIPE GRADE (%)	1.00%	0.20%	0.20%	0.20%	0.20%	
PIPE SLOPE (1 in X)	100.0	500.0	500.0	500.0	500.0	
FULL PIPE VELOCITY (m/s)	1.39	1.65	1.73	1.71	1.69	
PART FULL VELOCITY (m/s)	2.71	1.90	1.90	1.90	1.90	
PIPE FLOW (cumecs)	0.744	2.362	2.473	2.444	2.419	
PIPE CAPACITY AT GRADE (cumecs)	1.436	2.388	2.388	2.388	2.388	
DATUM RL	29.0					
WSE IN STRUCTURE	44.307	44.306	44.108	43.982	43.860	
HGL IN PIPE	44.307	44.300	44.162	44.108	43.860	43.732
DEPTH OF INVERT BELOW FSL	2.697	2.697	2.717	2.505	3.443	3.252
INVERT LEVEL	43.097	43.053	42.997	42.977	42.810	42.717
FINISHED (& EXISTING) SURFACE LEVEL	45.794 (44.082)	45.770 (44.133)	45.502 (45.037)	46.297 (46.739)	46.253 (48.355)	45.969 (49.317)
CHAINAGE	0.000	2.440	27.881	30.321	38.559	140.491

STRUCTURE NAME	7/501	8/501	9/501	10/501
STRUCTURE DESCRIPTION	EXISTING PIPE END	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	EXISTING PIPE END
PIPE SIZE (mm)	375	450	450	
PIPE CLASS	2	2	2	
PIPE GRADE (%)	3.00%	2.70%	2.84%	
PIPE SLOPE (1 in X)	33.3	37.0	35.2	
FULL PIPE VELOCITY (m/s)	2.49	2.41	3.13	
PART FULL VELOCITY (m/s)	3.11	3.29	3.43	
PIPE FLOW (cumecs)	0.275	0.384	0.498	
PIPE CAPACITY AT GRADE (cumecs)	0.304	0.469	0.481	
DATUM RL	36.0			
WSE IN STRUCTURE	55.031	52.987	51.188	
HGL IN PIPE	55.031	52.987	51.188	50.264
DEPTH OF INVERT BELOW FSL	2.037	1.461	1.462	1.393
INVERT LEVEL	54.675	52.568	49.972	49.202
FINISHED (& EXISTING) SURFACE LEVEL	56.712 (53.606)	54.029 (51.985)	51.414 (50.465)	50.595 (49.843)
CHAINAGE	70.239	70.239	93.350	163.589

STRUCTURE NAME	13/501	14/501	15/501	16/501	17/501	9/500
STRUCTURE DESCRIPTION	EXISTING PIPE END	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 2100mm DIA
PIPE SIZE (mm)	525	525	750	750	1050	
PIPE CLASS	2	2	2	2	2	
PIPE GRADE (%)	3.10%	3.79%	2.36%	1.85%	1.50%	
PIPE SLOPE (1 in X)	32.3	26.4	42.3	54.1	66.7	
FULL PIPE VELOCITY (m/s)	2.59	2.71	2.26	2.31	1.88	
PART FULL VELOCITY (m/s)	3.83	4.19	4.02	3.68	3.84	
PIPE FLOW (cumecs)	0.561	0.586	1.000	1.022	1.629	
PIPE CAPACITY AT GRADE (cumecs)	0.758	0.838	1.712	1.514	3.346	
DATUM RL	30.0					
WSE IN STRUCTURE	48.796	48.140	46.727	45.712	44.519	44.306
HGL IN PIPE	48.796	48.140	46.617	45.655	44.416	44.300
DEPTH OF INVERT BELOW FSL	1.985	1.821	1.863	2.053	1.986	2.620
INVERT LEVEL	48.312	47.592	46.250	45.033	43.689	43.150
FINISHED (& EXISTING) SURFACE LEVEL	50.297 (49.155)	49.413 (48.454)	48.093 (47.094)	47.106 (45.671)	46.364 (44.667)	45.770 (44.133)
CHAINAGE	23.233	23.233	35.390	58.622	134.217	170.146

STRUCTURE NAME	1A/504	8/500
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA MANHOLE 2100mm DIA
PIPE SIZE (mm)	525	
PIPE CLASS	2	
PIPE GRADE (%)	2.80%	
PIPE SLOPE (1 in X)	35.7	
FULL PIPE VELOCITY (m/s)	0.48	
PART FULL VELOCITY (m/s)	2.36	
PIPE FLOW (cumecs)	0.103	
PIPE CAPACITY AT GRADE (cumecs)	0.720	
DATUM RL	28.0	
WSE IN STRUCTURE	44.110	44.108
HGL IN PIPE	44.110	44.108
DEPTH OF INVERT BELOW FSL	2.310	2.472
INVERT LEVEL	43.101	43.030
FINISHED (& EXISTING) SURFACE LEVEL	45.411 (44.983)	45.502 (45.037)
CHAINAGE	2.528	2.528

LINE 500 501 501 504

**FOR CONSTRUCTION**

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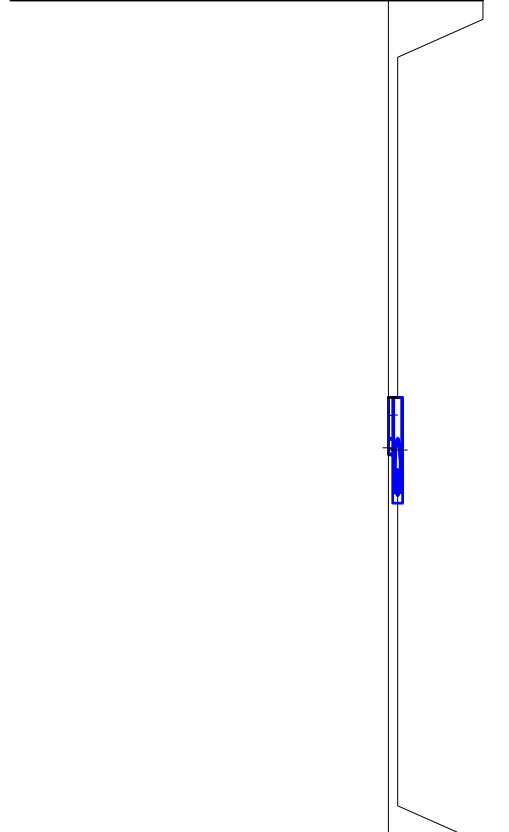
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 CHECKED  
ANDREW LANGDON  
 PROJECT MANAGER  
SIMON STEINHOFFER  
 PROJECT DIRECTOR  
PATRICK BRADY  
 RPEQ 7112

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

CLIENT  
MIRVAC QLD PTY LTD  
 PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
 LOCATION  
TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

JOB CODE  
MIR-0904  
 SHEET NUMBER  
C410  
 REV  
B

STRUCTURE NAME	1A/506
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL IPWEA MANHOLE 2100mm DIA

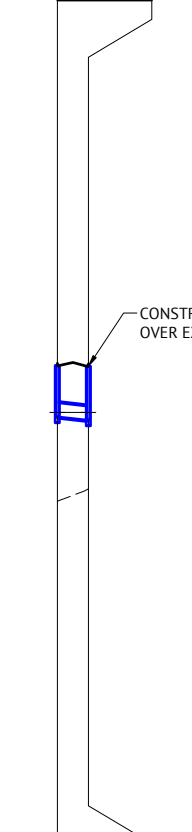


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.35
PART FULL VELOCITY (m/s)	1.36
PIPE FLOW (cumecs)	0.039
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	28.0

WSE IN STRUCTURE	44.166
HGL IN PIPE	44.166
DEPTH OF INVERT BELOW FSL	1.471
INVERT LEVEL	44.025
FINISHED (& EXISTING) SURFACE LEVEL	45.496 (45.023)
CHAINAGE	0.000 2.438

LINE 506

STRUCTURE NAME	2/511
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

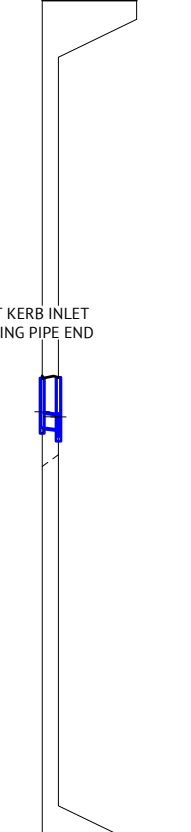


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.08
PART FULL VELOCITY (m/s)	0.83
PIPE FLOW (cumecs)	0.009
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	39.0

WSE IN STRUCTURE	56.105
HGL IN PIPE	56.102
DEPTH OF INVERT BELOW FSL	1.365
INVERT LEVEL	55.981
FINISHED (& EXISTING) SURFACE LEVEL	57.328 (54.084)
CHAINAGE	8.211

LINE 511

STRUCTURE NAME	1/515
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

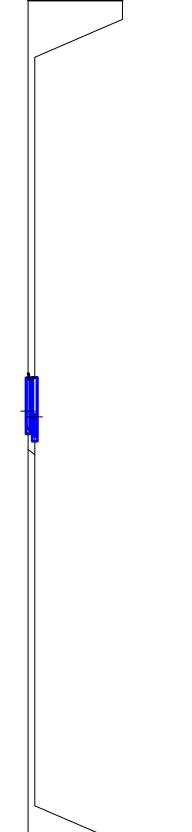


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.52
PART FULL VELOCITY (m/s)	1.42
PIPE FLOW (cumecs)	0.057
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	36.0

WSE IN STRUCTURE	53.119
HGL IN PIPE	52.987
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	52.699
FINISHED (& EXISTING) SURFACE LEVEL	54.029 (51.985)
CHAINAGE	4.304

LINE 515

STRUCTURE NAME	1/516
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

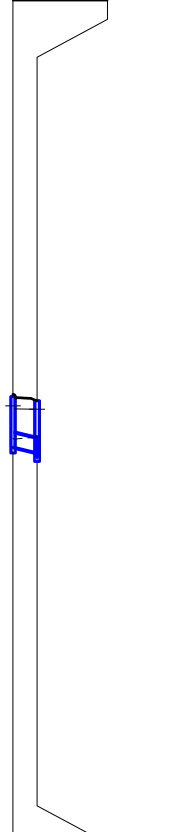


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.55
PART FULL VELOCITY (m/s)	1.44
PIPE FLOW (cumecs)	0.061
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	36.0

WSE IN STRUCTURE	53.136
HGL IN PIPE	52.987
DEPTH OF INVERT BELOW FSL	1.332
INVERT LEVEL	52.686
FINISHED (& EXISTING) SURFACE LEVEL	54.029 (51.985)
CHAINAGE	1.789

LINE 516

STRUCTURE NAME	1/517
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

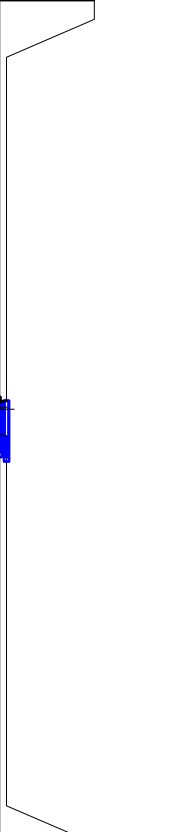


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.03%
PIPE SLOPE (1 in X)	49.2
FULL PIPE VELOCITY (m/s)	0.62
PART FULL VELOCITY (m/s)	1.93
PIPE FLOW (cumecs)	0.068
PIPE CAPACITY AT GRADE (cumecs)	0.250
DATUM RL	34.0

WSE IN STRUCTURE	51.276
HGL IN PIPE	51.198
DEPTH OF INVERT BELOW FSL	1.343
INVERT LEVEL	50.180
FINISHED (& EXISTING) SURFACE LEVEL	51.414 (50.465)
CHAINAGE	6.396

LINE 517

STRUCTURE NAME	1/518
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel



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	34.0

WSE IN STRUCTURE	51.244
HGL IN PIPE	51.190
DEPTH OF INVERT BELOW FSL	1.332
INVERT LEVEL	50.073
FINISHED (& EXISTING) SURFACE LEVEL	51.414 (50.465)
CHAINAGE	1.785

LINE 518

STRUCTURE NAME	1/521
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

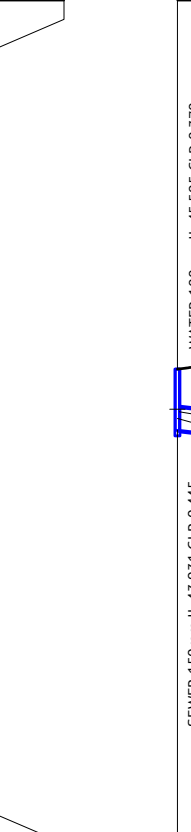


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.26
PART FULL VELOCITY (m/s)	1.17
PIPE FLOW (cumecs)	0.028
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	32.0

WSE IN STRUCTURE	48.249
HGL IN PIPE	48.217
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	48.096
FINISHED (& EXISTING) SURFACE LEVEL	49.413 (48.454)
CHAINAGE	1.634

LINE 521

STRUCTURE NAME	1/523
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL IPWEA MANHOLE 1200mm DIA

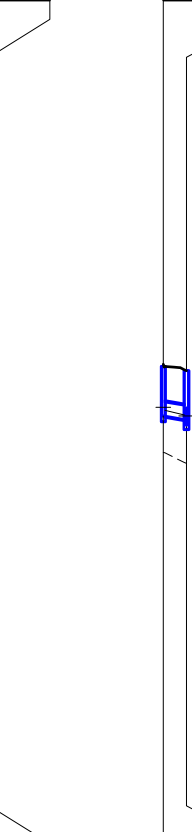


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.19
PIPE FLOW (cumecs)	0.030
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	29.0

WSE IN STRUCTURE	45.939
HGL IN PIPE	45.903
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	45.779
FINISHED (& EXISTING) SURFACE LEVEL	47.106 (45.671)
CHAINAGE	1.667

LINE 523

STRUCTURE NAME	1/524
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL IPWEA MANHOLE 1500mm DIA

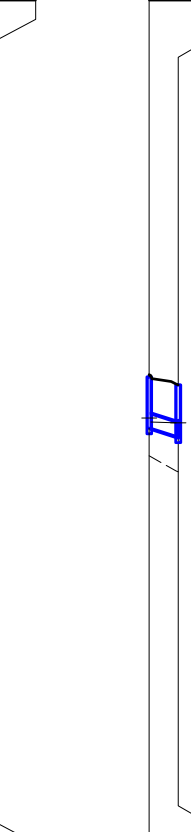


PIPE SIZE (mm)	600
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	1.98
PART FULL VELOCITY (m/s)	2.46
PIPE FLOW (cumecs)	0.561
PIPE CAPACITY AT GRADE (cumecs)	0.614
DATUM RL	28.0

WSE IN STRUCTURE	45.187
HGL IN PIPE	45.119
DEPTH OF INVERT BELOW FSL	1.619
INVERT LEVEL	44.651
FINISHED (& EXISTING) SURFACE LEVEL	46.364 (44.667)
CHAINAGE	8.938

LINE 524

STRUCTURE NAME	1/525
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

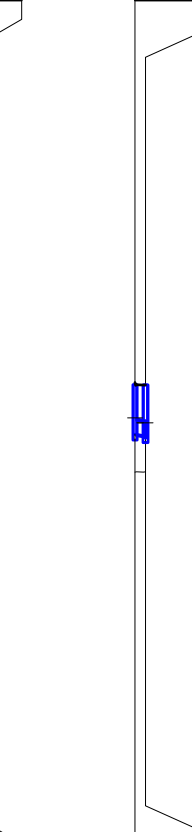


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.44%
PIPE SLOPE (1 in X)	69.6
FULL PIPE VELOCITY (m/s)	0.41
PART FULL VELOCITY (m/s)	1.51
PIPE FLOW (cumecs)	0.045
PIPE CAPACITY AT GRADE (cumecs)	0.210
DATUM RL	39.0

WSE IN STRUCTURE	56.240
HGL IN PIPE	56.159
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	56.006
FINISHED (& EXISTING) SURFACE LEVEL	57.210 (54.759)
CHAINAGE	6.124

LINE 525

STRUCTURE NAME	1/527
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

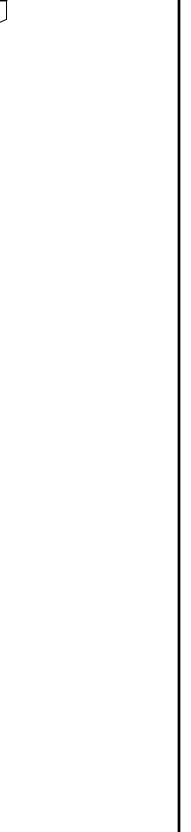


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.79%
PIPE SLOPE (1 in X)	35.8
FULL PIPE VELOCITY (m/s)	0.47
PART FULL VELOCITY (m/s)	1.99
PIPE FLOW (cumecs)	0.051
PIPE CAPACITY AT GRADE (cumecs)	0.293
DATUM RL	35.0

WSE IN STRUCTURE	51.958
HGL IN PIPE	51.827
DEPTH OF INVERT BELOW FSL	1.375
INVERT LEVEL	51.687
FINISHED (& EXISTING) SURFACE LEVEL	53.062 (50.956)
CHAINAGE	7.690

LINE 527

STRUCTURE NAME	1/528
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel

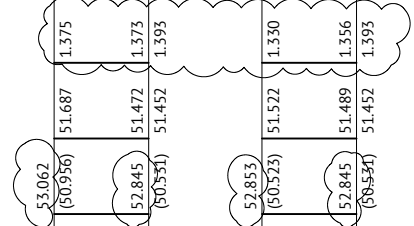


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.52
PART FULL VELOCITY (m/s)	1.52
PIPE FLOW (cumecs)	0.057
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	35.0

WSE IN STRUCTURE	51.958
HGL IN PIPE	51.827
DEPTH OF INVERT BELOW FSL	1.330
INVERT LEVEL	51.522
FINISHED (& EXISTING) SURFACE LEVEL	52.845 (50.523)
CHAINAGE	2.763

LINE 528

CONSTRUCT KERB INLET OVER EXISTING PIPE END



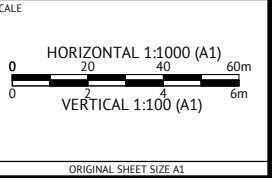
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISED BY	APP
15/07/2022	C	AMENDED FINISHED SURFACE LEVELS ON LONG SECTIONS	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
12/11/2021	3	90% REVIEW ISSUE	KK	PB
05/11/2021	2	DESIGN UPDATED	VKH	PB
28/10/2021	1	PRELIMINARY ISSUE	VKH	PB



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PROJECT DIRECTOR  
**PATRICK BRADY**



CLIENT  
**MIRVAC QLD PTY LTD**

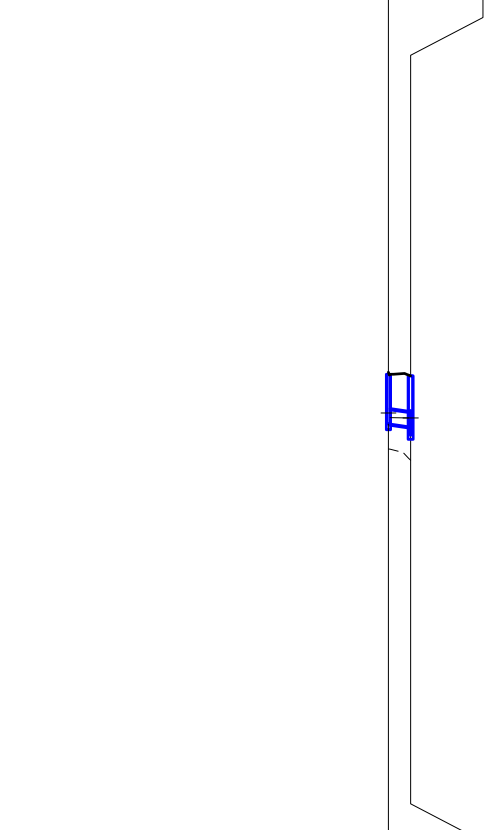
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**STORMWATER DRAINAGE LONG SECTIONS - SHEET 2**

JOB CODE	MIR-0904
SHEET NUMBER	C411
REV	C

STRUCTURE NAME	1/529
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	2/522
	IPWEA MANHOLE 1050mm DIA

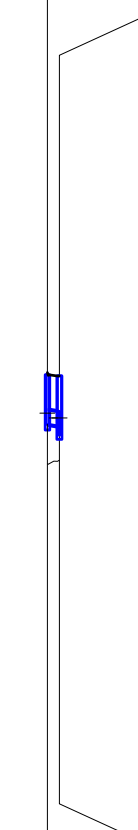


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.50
PART FULL VELOCITY (m/s)	1.50
PIPE FLOW (cumecs)	0.055
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	32.0

WSE IN STRUCTURE	49.037
HGL IN PIPE	48.915
DEPTH OF INVERT BELOW FSL	1.325
INVERT LEVEL	48.746
FINISHED (& EXISTING) SURFACE LEVEL	50.071
CHAINAGE	0.000

LINE 529

STRUCTURE NAME	1/530
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	2/522
	IPWEA MANHOLE 1050mm DIA

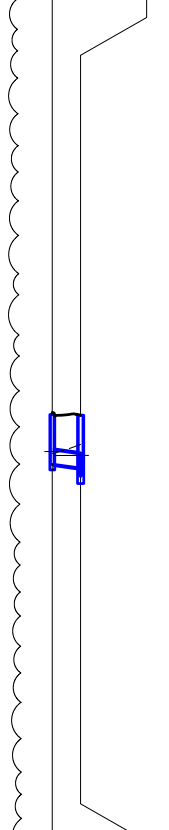


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.50
PART FULL VELOCITY (m/s)	1.51
PIPE FLOW (cumecs)	0.056
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	32.0

WSE IN STRUCTURE	49.034
HGL IN PIPE	48.908
DEPTH OF INVERT BELOW FSL	1.326
INVERT LEVEL	48.757
FINISHED (& EXISTING) SURFACE LEVEL	50.063
CHAINAGE	0.000

LINE 530

STRUCTURE NAME	1/531
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	1/522
	IPWEA MANHOLE 1200mm DIA

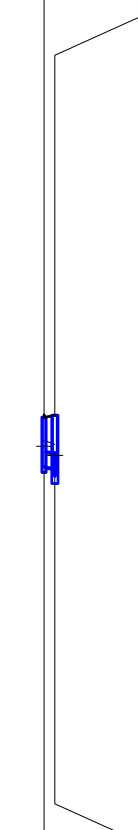


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.7
FULL PIPE VELOCITY (m/s)	0.46
PART FULL VELOCITY (m/s)	1.47
PIPE FLOW (cumecs)	0.051
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	31.0

WSE IN STRUCTURE	47.016
HGL IN PIPE	46.911
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	46.680
FINISHED (& EXISTING) SURFACE LEVEL	47.995
CHAINAGE	0.000

LINE 531

STRUCTURE NAME	1/532
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	1/522
	IPWEA MANHOLE 1200mm DIA

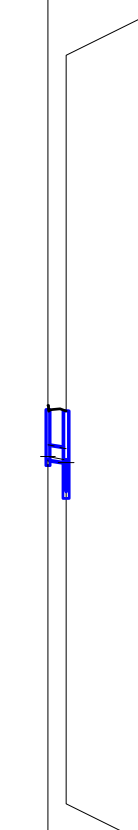


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.73
PART FULL VELOCITY (m/s)	1.66
PIPE FLOW (cumecs)	0.081
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	31.0

WSE IN STRUCTURE	47.158
HGL IN PIPE	46.915
DEPTH OF INVERT BELOW FSL	1.316
INVERT LEVEL	46.614
FINISHED (& EXISTING) SURFACE LEVEL	47.929
CHAINAGE	0.000

LINE 532

STRUCTURE NAME	1/533
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	15/501
	IPWEA MANHOLE 1200mm DIA

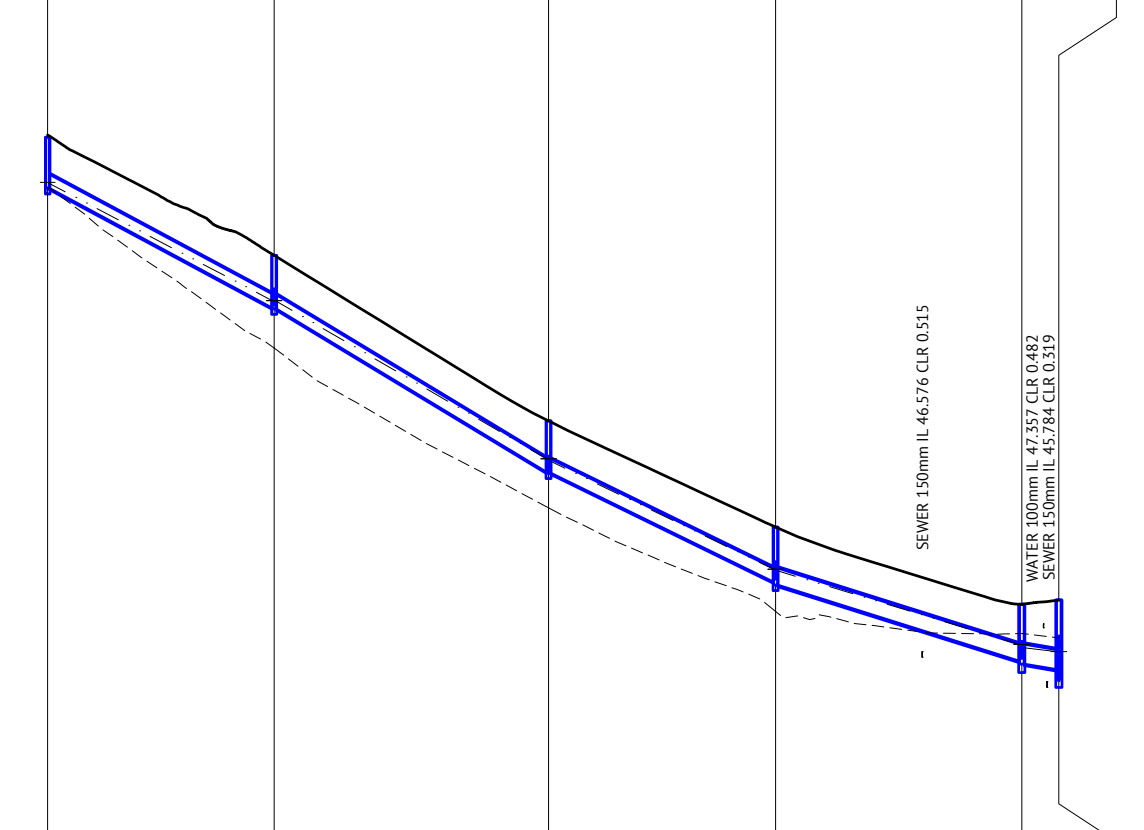


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.03
PIPE FLOW (cumecs)	0.015
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	31.0

WSE IN STRUCTURE	46.889
HGL IN PIPE	46.880
DEPTH OF INVERT BELOW FSL	1.332
INVERT LEVEL	46.795
FINISHED (& EXISTING) SURFACE LEVEL	48.093
CHAINAGE	0.000

LINE 533

STRUCTURE NAME	5/522
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL
	1/522
	IPWEA MANHOLE 1050mm DIA
	3/522
	IPWEA MANHOLE 1050mm DIA
	2/522
	IPWEA MANHOLE 1050mm DIA
	1/522
	IPWEA MANHOLE 1200mm DIA
	15/501
	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	5.28%
PIPE SLOPE (1 in X)	18.9
FULL PIPE VELOCITY (m/s)	0.29
PART FULL VELOCITY (m/s)	2.17
PIPE FLOW (cumecs)	0.032
PIPE CAPACITY AT GRADE (cumecs)	0.403
DATUM RL	36.0

WSE IN STRUCTURE	59.137
HGL IN PIPE	59.108
DEPTH OF INVERT BELOW FSL	1.353
INVERT LEVEL	58.981
FINISHED (& EXISTING) SURFACE LEVEL	60.333
CHAINAGE	0.000

LINE 522

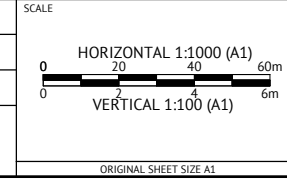
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
15/07/2022	C	AMENDED FINISHED SURFACE LEVELS ON LONG SECTIONS, AMENDED LINE 531, REMOVED LINE 542	KK PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	3	90% REVIEW ISSUE	KK PB
05/11/2021	2	DESIGN UPDATED	VKH PB
28/10/2021	1	PRELIMINARY ISSUE	VKH PB



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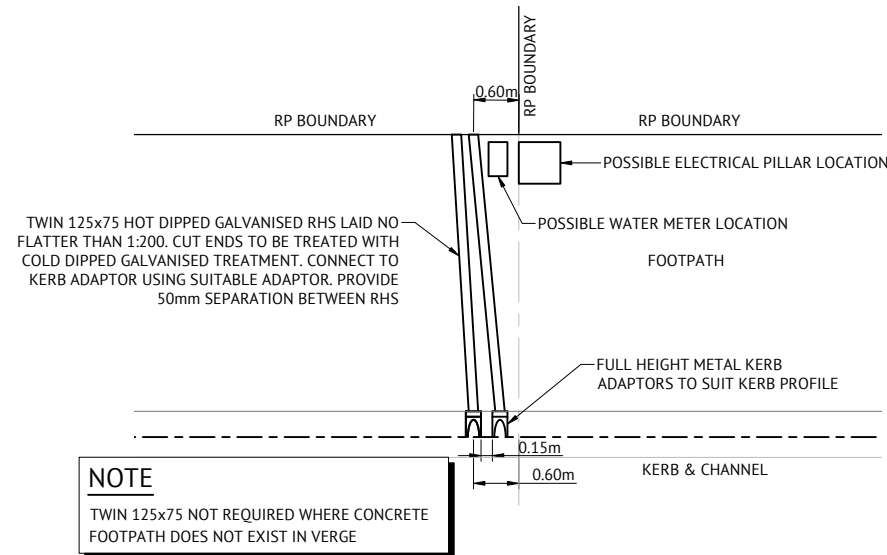


CLIENT	MIRVAC QLD PTY LTD
PROJECT	EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3

JOB CODE	MIR-0904
SHEET NUMBER	C412
REV	C

**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:**

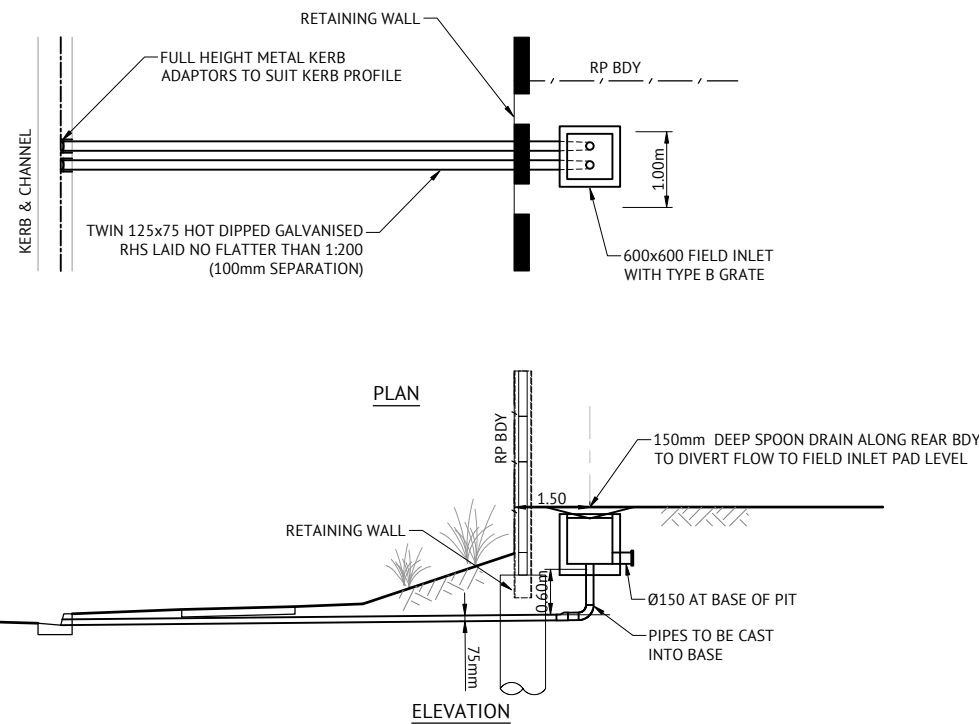
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

**TRENCH SPOIL NOTE:**

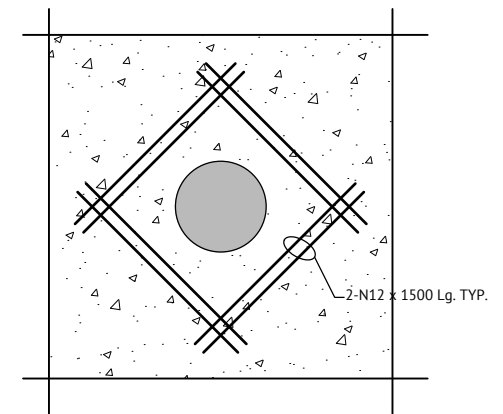
SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

**NOTE:**

STORMWATER DRAINAGE LONG SECTION CHAINAGE LENGTHS ARE MEASURED FROM NODE CENTRE POINTS ALONG THE PROPOSED PIPE ALIGNMENT INCLUDING PIPE OFFSETS SUCH AS TO CENTRE OF PIT SIDE WALL AND CUSTOM PIPE SPACING INTO STRUCTURES. REFER STORMWATER DRAINAGE STRUCTURE DETAILS DRAWINGS.



**TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL**  
N.T.S.



**TYPICAL DETAIL**  
GRADED PIT IN CONCRETE PAVEMENT  
SCALE 1:20

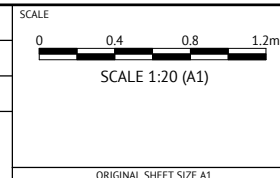
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	C	ADDED NOTE	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
28/10/2021	1	PRELIMINARY ISSUE	VKH	PB



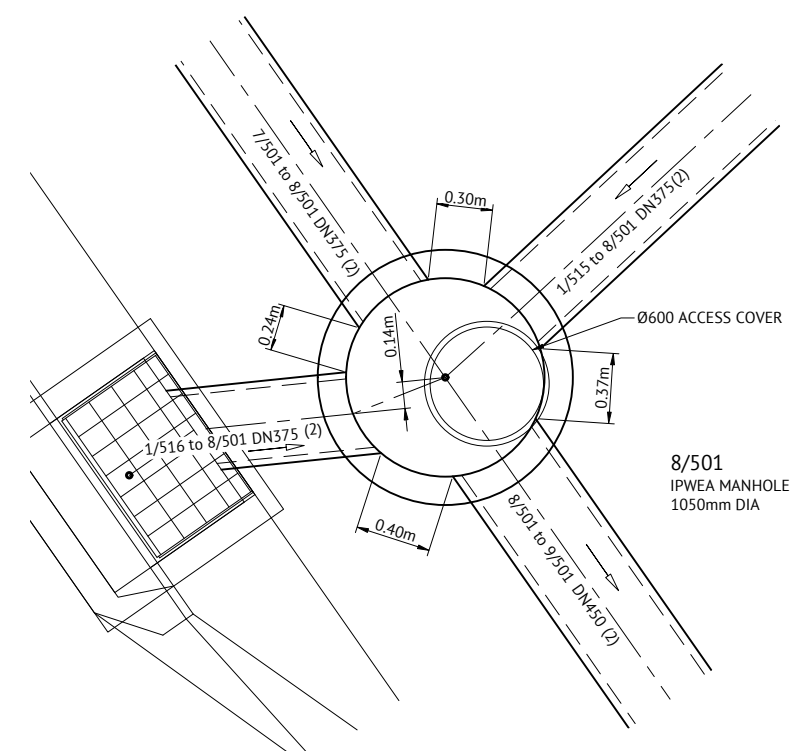
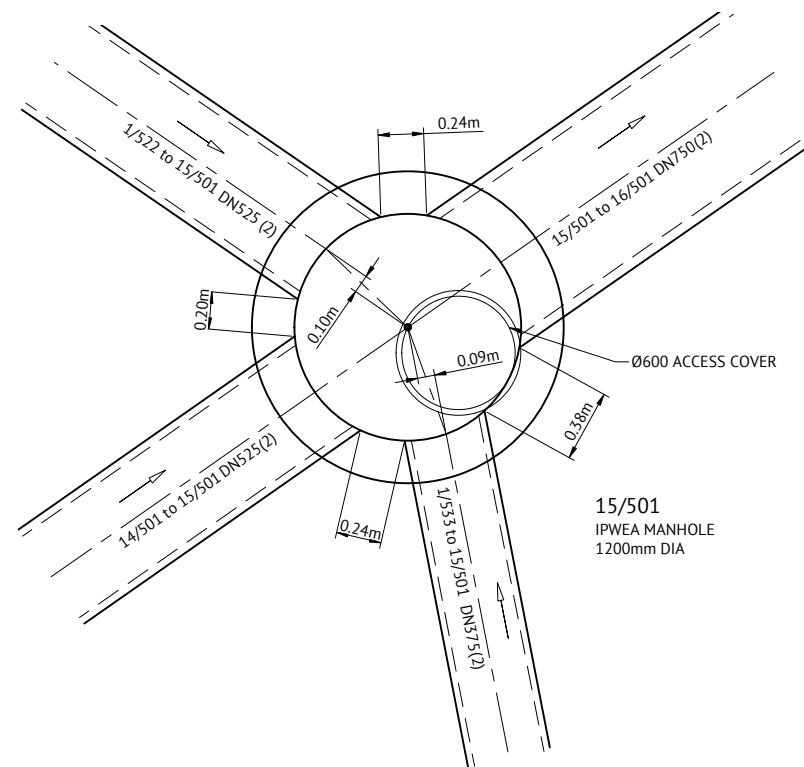
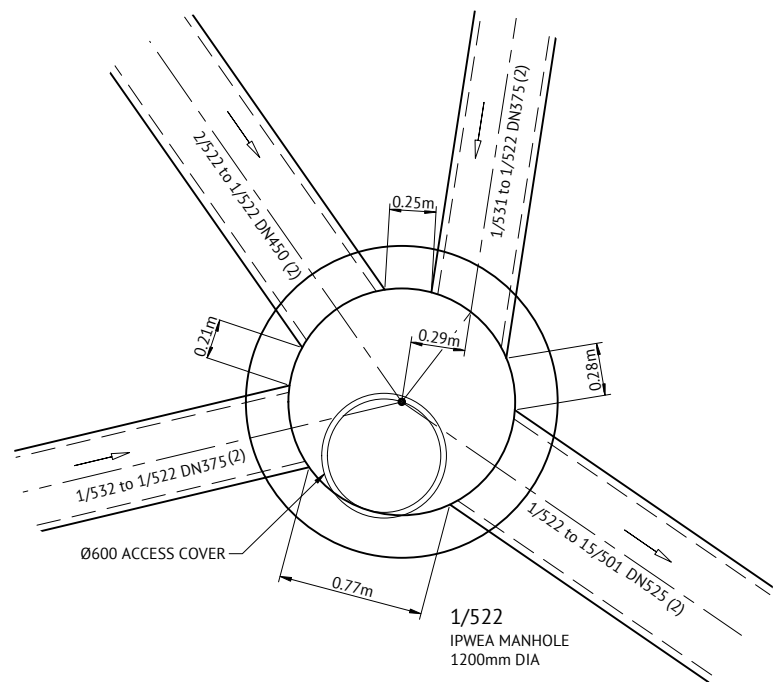
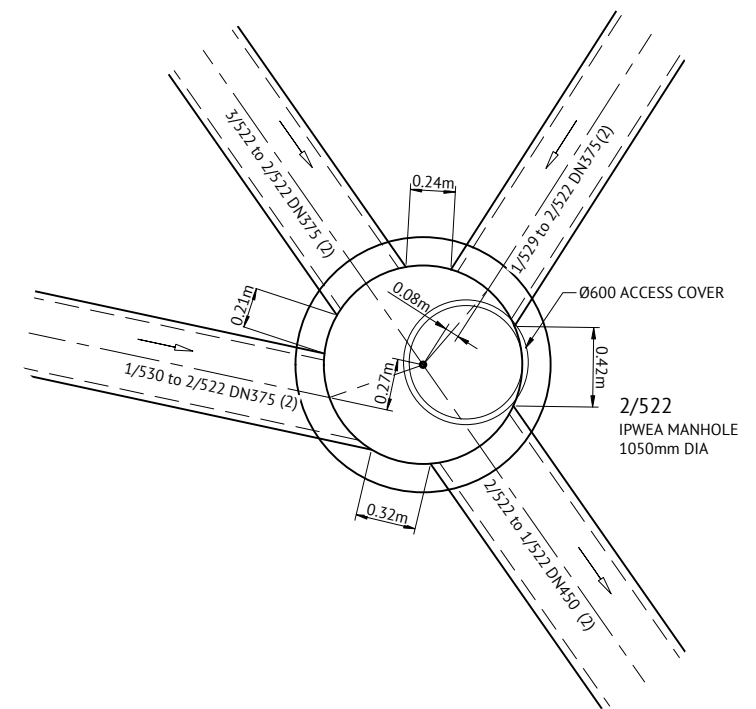
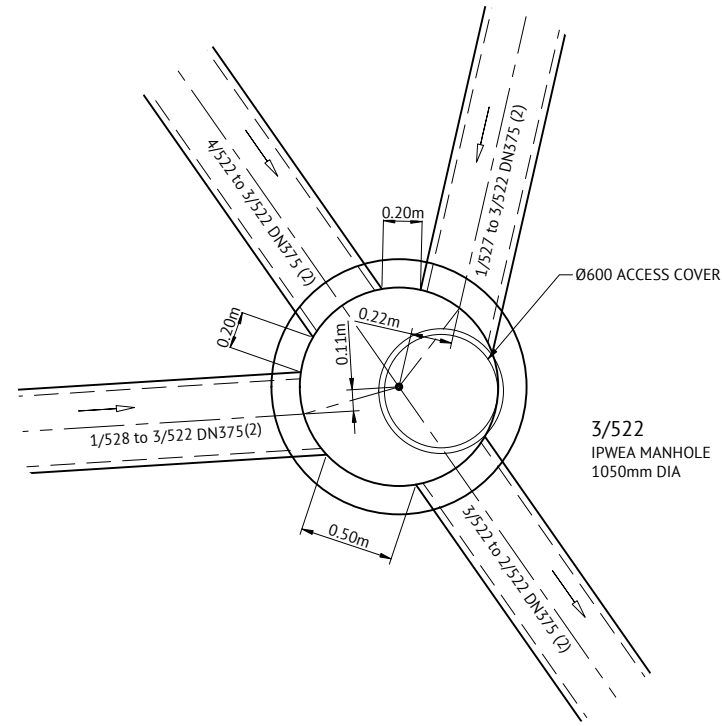
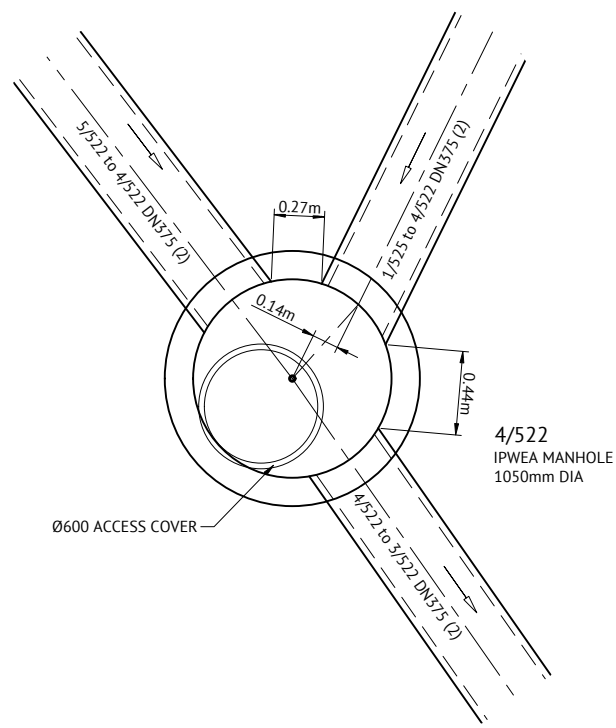
**BRISBANE OFFICE**  
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DESIGNED  
**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER DRAINAGE NOTES AND DETAILS**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C420**  
REV  
**C**



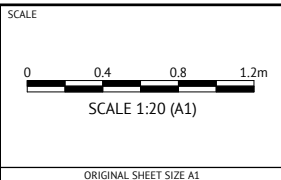
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DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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28/10/2021	1	PRELIMINARY ISSUE	KK	PB



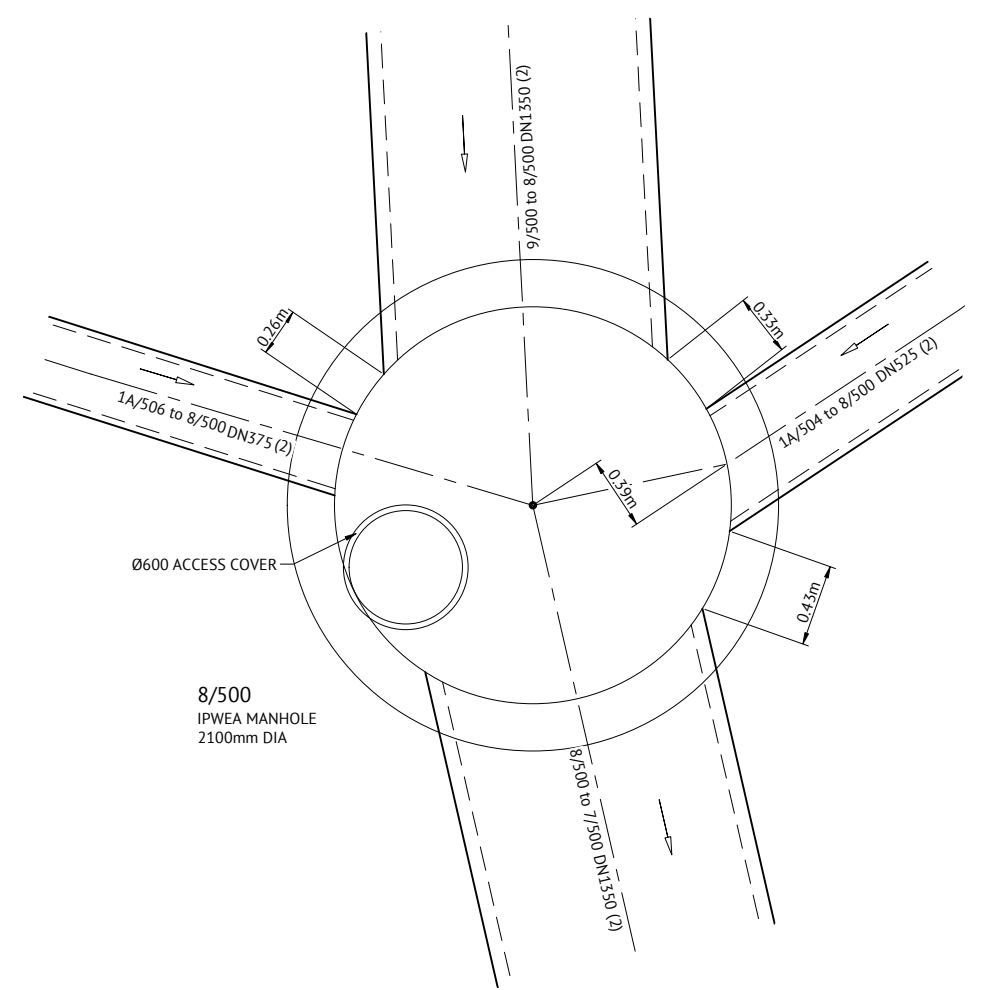
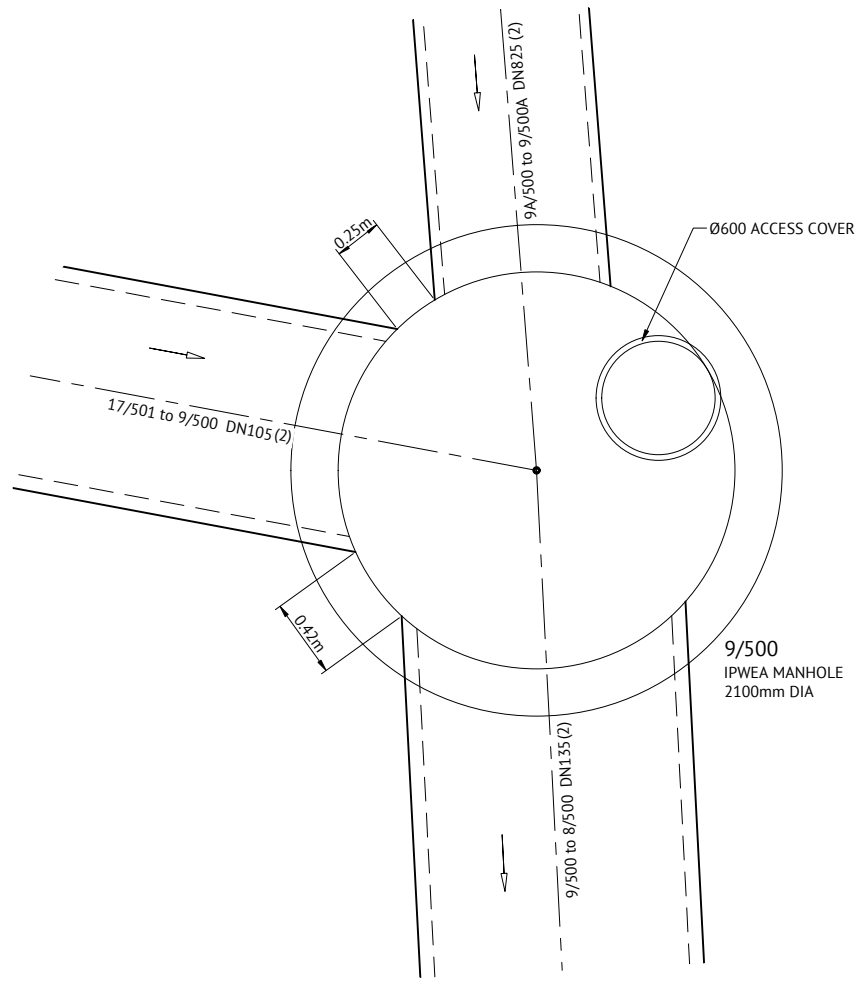
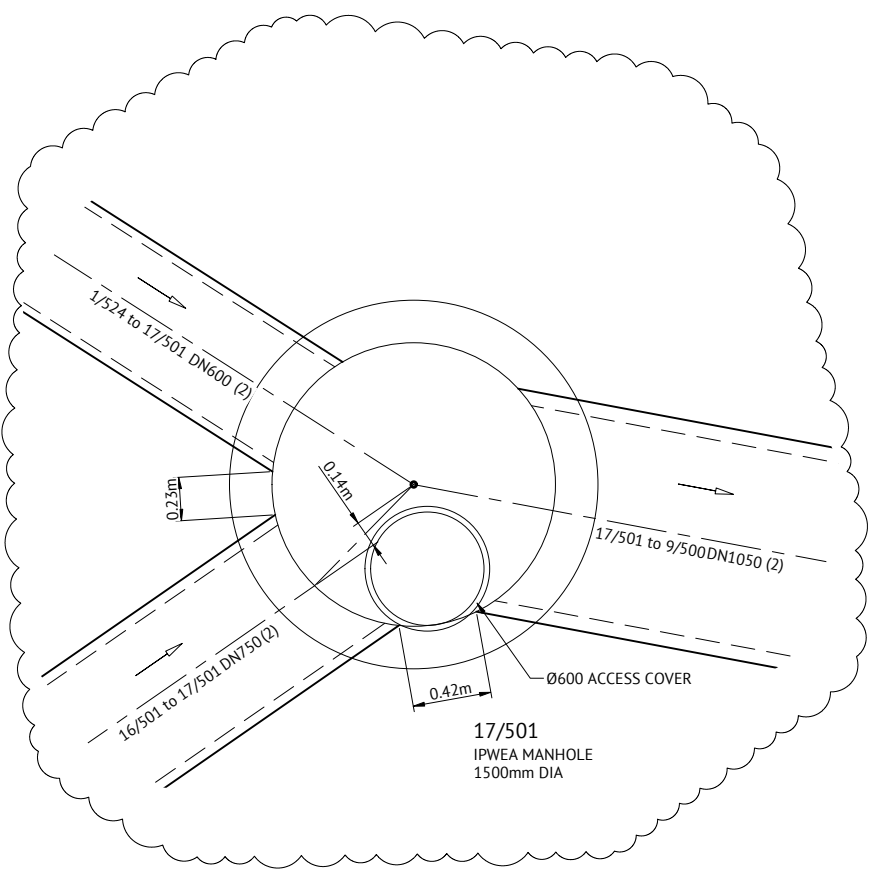
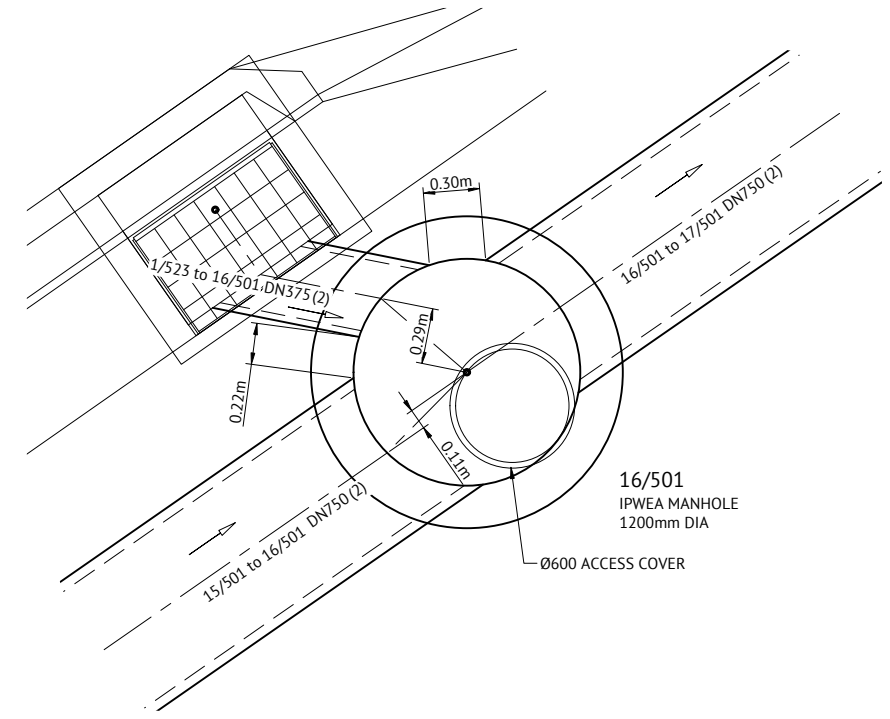
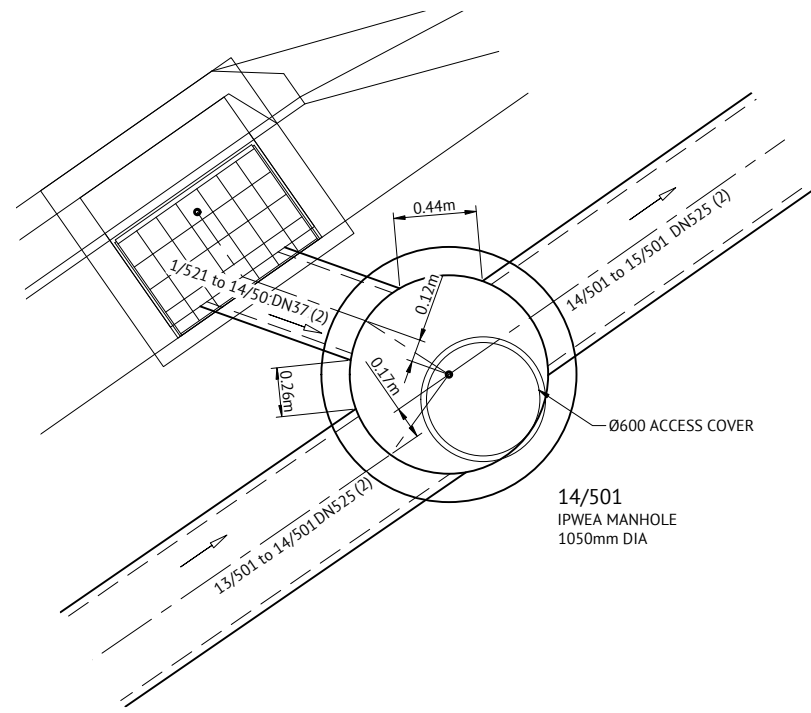
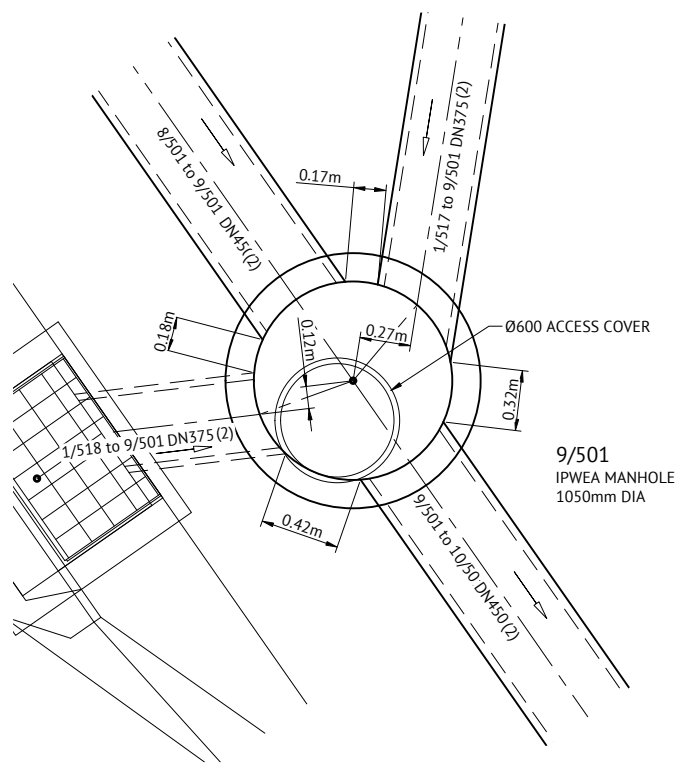
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 PROJECT DIRECTOR  
*Patrick Brady*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C430**  
 REV  
**B**



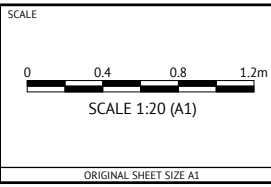
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	C	AMENDED DETAIL 17/501	KK	PB
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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 PATRICK BRADY  
 RPEQ 7112



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 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C431**  
 REV  
**C**









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	Qc	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	L/s	L/s	min	mm/h	ha	L/s	L/s		m	%	mm	m	m	m	m	m	%	m	m	m											m	m	m
15/501	16/501	1/532 1/531 1/530 1/529 1/528 1/527 1/525 5/522 1/533 1/521 1/520 1/519 1/518 1/517 1/516 1/515 1/512 2/511 1/511 1/501 2/501 3/501 5/501	9.17	240		4.452	0	1109	40.110	2.363	750	2	2.51	0.17							0.00	1.00	1.36	0.322	0.84	0.269	0.85	0.272	2.27	0.943	0.440	4.12			46.645	45.733	46.917	48.093						15/501
16/501	17/501	1/523 1/532 1/531 1/530 1/529 1/528 1/527 1/525 5/522 1/533 1/521 1/520 1/519 1/518 1/517 1/516 1/515 1/512 2/511 1/511 1/501 2/501 3/501 5/501	9.34	239		4.568	0	1045	35.461	1.849	750	2	2.37	0.17							0.00	1.00	1.10	0.286	0.25	0.071	0.071	1.47	0.594	0.458	3.70			45.661	45.139	45.733	47.106						16/501	
17/501	9/500	1/542 1/543 1/541 1/540 1/539 1/538 1/536 1/535 1/534 9/524 8/524 1/523 1/532 1/531 1/530 1/529 1/528 1/527 1/525 5/522 1/533 1/521 1/520 1/519 1/518 1/517 1/516 1/515 1/512 2/511 1/511 1/501 2/501 3/501 5/501	9.49	238		7.380	0	2201	35.929	1.500	1050	2	2.54	0.15							0.00	0.98	1.38	0.330	0.59	0.196	0.196	0.65	0.233	0.622	4.12			44.943	44.710	45.139	46.364						17/501	
1A/504	8/500	6/504 5/504 4/504 3/504 2/504 1/504	8.54	247		0.432	0	296	2.484	2.852	525	2	1.37	0.01													0.000	0.47	0.012	0.234	3.16			44.402	44.390	44.402	45.411						1A/504	
1A/506	8/500	3/506 2/506 1/506	8.20	250		0.160	0	111	2.438	1.200	375	2	1.00	0.02													0.000	0.38	0.009	0.205	1.80			44.399	44.390	44.399	45.496						1A/506	
2/511	1/511		8.00	252	1.00	0.037	0.037	26	26	0.89	5	21	1/515	8.00	252	0.037	0	5	8.183	1.003	375	2	0.05	0.09											56.031	56.039	56.032	57.346	1548	26	0.03	2/511		
1/511																																		56.040	57.328						1/511			
1/515	8/501		8.00	252	1.00	0.291	0.291	204	974	2.70	40	934	1/517	8.00	252	0.291	0	40	4.301	1.001	375	2	0.36	0.05											52.918	52.920	52.982	54.014	1815	974	0.39	1/515		
1/516	8/501		8.00	252	1.00	0.320	0.320	224	725	2.70	40	685	1/518	8.00	252	0.320	0	40	1.751	1.022	375	2	0.36	0.02											52.919	52.920	52.983	54.018	1815	725	0.37	1/516		
1/517	9/501		8.00	252	1.00	0.338	0.338	237	1171	3.10	32	1138	1/519	8.00	252	0.338	0	32	6.190	2.102	375	2	0.29	0.05											50.385	50.391	50.427	51.524	1775	1171	0.45	1/517		
1/518	9/501		8.00	252	1.00	0.249	0.249	174	860	3.10	32	827	1/520	8.00	252	0.249	0	32	1.751	1.020	375	2	0.29	0.02											50.391	50.391	50.434	51.406	1775	860	0.42	1/518		
1/521	14/501		8.00	252	1.00	0.121	0.121	85	1008	3.88	-48	1056	1/532	8.00	252	0.121	0	867	1.585	1.031	375	2	7.85	0.02												48.854	48.455	48.854	49.411	1743	1008	0.42	1/521	
1/523	16/501		8.00	252	1.00	0.116	0.116	81	1345	2.09	-41	1386	1/543	8.00	252	0.116	0	378	1.585	1.052	375	2	3.42	0.02												46.213	46.132	46.213	47.094	1867	1345	0.45	1/523	
1/524	17/501	1/543 1/541 1/540 1/539 1/538 1/536 1/535 1/534 9/524 8/524	9.14	241		2.596	0	935	8.938	1.000	600	2	3.31	0.07							0.00	1.00	1.51	0.558	0.34	0.191	0.191	2.32	0.207	0.600	3.31			45.346	45.139	45.537	46.250						1/524	
1/525	4/522		8.00	252	1.00	0.204	0.204	143	143	4.73	97	46	1/527	8.00	252	0.204	0	97	6.062	1.451	375	2	0.88	0.05												56.235	56.213	56.547	57.321	1680	143	0.12	1/525	
1/527	3/522		8.00	252	1.00	0.237	0.237	166	212	5.58	117	95	1/529	8.00	252	0.237	0	117	7.491	2.866	375	2	1.06	0.05												51.961	51.963	52.351	53.044	1631	212	0.15	1/527	
1/528	3/522		8.00	252	1.00	0.290	0.290	203	203	5.01	31	173	1/530	8.00	252	0.290	0	31	2.710	1.224	375	2	0.28	0.03												51.964	51.963	52.002	52.837	1656	203	0.14	1/528	
1/529	2/522		8.00	252	1.00	0.242	0.242	170	265	4.65	50	215	1/531	8.00	252	0.242	0	50	5.823	1.207	375	2	0.45	0.06												49.056	49.055	49.157	50.061	1680	265	0.16	1/529	
1/530	2/522		8.00	252	1.00	0.234	0.234	164	336	4.65	67	269	1/532	8.00	252	0.234	0	67	3.056	1.261	375	2	0.61	0.03												49.055	49.055	49.237	50.052	1680	336	0.18	1/530	
1/531	1/522		8.00	252	1.00	0.191	0.191	133	1828	2.29	64	1764	1/523	8.00	252	0.191	0	64	7.315	1.229	375	2	0.58	0.07													47.224	47.215	47.361	47.995	2528	1828	0.49	1/531
1/532	1/522		8.00	252	1.00	0.299	0.299	210	1535	1.70	56	1480	1/531	8.00	252	0.299	0	56	2.854	1.202	375	2	0.50	0.03													47.217	47.215	47.317	47.929	2528	1535		1/532
1/533	15/501		6.00	275	1.00	0.057	0.057	43	1043	3.17	206	837	1/554	6.00	275	0.057	0	206	4.780	1.209	375	2	1.87	0.05												47.134	47.065	47.847	48.127	1775	1043	0.48	1/533	
1/542	17/501		8.00	252	1.00	0.200	0.200	140	2025	0.61	258	1767	1/553	8.00	252	0.200	0	258	7.108	1.202	375	2	2.33	0.07													45.292	45.139	46.121	46.130	2528	2025		1/542
5/522	4/522		8.00	252	1.00	0.134	0.134	94	220	5.27	128	92	1/511	8.00	252	0.134	0	128	59.920	5.281	375	2	1.16	0.27													59.245	56.213	59.596	60.333	1656	220	0.15	5/522
4/522	3/522	1/525 5/522	8.27	249		0.339	0	223	72.601	5.957	375	2	2.02	0.31						0.00	1.00	1.21	0.208	0.38	0.079	0.079	5.74	4.194	0.192	3.91			56.134	51.963	56.213	57.210						4/522		
3/522	2/522	1/528 1/527 1/525 5/522	8.37	248		0.863	0	362	60.084	4.808	375	2	3.27	0.29						0.00	1.00	1.38	0.547	0.26	0.143	0.143	4.60	2.770	0.289	3.96			51.820	49.055	51.963	52.831						3/522		
2/522	1/522	1/530 1/529 1/528 1/527 1/525 5/522	8.34	249		1.325	0	465	65.156	5.094	450	2	2.93	0.34						0.00	1.00	1.26	0.437	0.24	0.105	0.105	2.66	1.735	0.343	3.58			48.949	47.215	49.055	50.022						2/522		
1/522	15/501	1/532 1/531 1/530 1/529 1/528 1/527 1/525 5/522	8.66	245		1.814	0	563	9.775	1.501	525	2	2.60	0.07						0.00	1.00	1.56	0.345	0.39	0.133	0.133	1.71	0.168	0.477	2.73			47.081	46.913	47.215	47.980						1/522		

<b>FOR CONSTRUCTION</b>			
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**GENERAL:**

- G.1. CONSTRUCTION METHODS ARE THE RESPONSIBILITY OF THE BUILDER. DETAILS SHOWN ARE A GUIDE AND ALTERNATE DETAILS MAY BE SUBMITTED FOR ENGINEERING APPROVAL, PRIOR TO WORKS COMMENCING
- G.5. MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION.
- G.6. DO NOT OVERSTRESS ANY PART OF THE MEMBERS DURING FABRICATION, TRANSPORTATION OR ERECTION.
- G.7. PROPRIETARY ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND DESIGN DETAILS.
- G.8. IT IS THE RESPONSIBILITY OF THE BUILDER TO MAKE GOOD ANY DAMAGE CAUSED TO ADJOINING STRUCTURES OR ELEMENTS CREATED DURING CONSTRUCTION.

**SERVICE LOADS:**

- SL.1. STRUCTURAL WORK HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
  - PERMANENT DEAD LOAD OF STRUCTURE AS SHOWN ON DRAWINGS
  - LIVE LOADS TO AS5100.1 80 kN (W80 WHEEL LOAD)
  - IMPOSED SURCHARGE LOAD ON GROUND: 20 kPa
  - SOIL DENSITY: 22 kN/m<sup>3</sup> (HEIGHT OF SOIL OVER ROOF SLAB = 0.3m MAX. UNO)
  - AT REST LATERAL EARTH PRESSURE COEFFICIENT ko: 0.531
- SL.2. THE ABOVE DO NOT INCLUDE LOADS WHICH MAY BE APPLIED DURING CONSTRUCTION.

**SITE PREPARATION AND FOUNDATIONS:**

- P.1. NO GEOTECHNICAL INVESTIGATION HAS BEEN COMPLETED. BUILDER TO CONFIRM SITE CLASSIFICATION AND INSITU MATERIAL PROPERTIES PRIOR TO POURING FOUNDATIONS.
- P.2. GEOTECHNICAL ENGINEER SHALL BE ENGAGED, AT THE BUILDER'S EXPENSE TO CERTIFY THAT THE ALLOWABLE BEARING PRESSURE HAS BEEN ACHIEVED IN THE BASE OF ALL FOOTINGS. GEOTECHNICAL ENGINEER'S CERTIFICATE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF 50mm BLINDING LAYER AND/OR REINFORCEMENT.
- P.3. EARTHWORKS SHALL BE IN ACCORDANCE WITH AS 3798 INCLUDING THE FOLLOWING.
- P.4. THE BUILDING SITE SHALL BE STRIPPED OF ALL VEGETABLE MATTER AND THE ASSOCIATED LAYER OF TOPSOIL.
- P.5. FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE BEARING CAPACITY OF 100 kPa. IT IS THE RESPONSIBILITY OF THE BUILDER TO DETERMINE FINAL BEARING PRESSURE ON SITE, UPON EXCAVATION.
- P.6. THE TOP 150mm OF SUBGRADE (UNDER FOUNDATIONS, FOOTINGS AND SLABS) SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH METHOD 5.1.1 OF AS 1289 (STANDARD COMPACTION).
- P.7. FILL MATERIAL SHALL BE SAND FILL OR OTHER APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 150mm IN THICKNESS. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS PER ABOVE. FOR COHESIONLESS FILL WITH LESS THAN 5% PASSING THE 75 MICRON SIEVE, THE MATERIAL SHALL BE COMPACTED TO 70% DENSITY INDEX IN ACCORDANCE WITH AS 1289 TEST E6.1.
- P.8. TO AVOID SWELLING OF FOUNDATIONS AND SLAB MOVEMENTS, THE AREA AROUND THE SLAB SHALL BE EFFECTIVELY DRAINED, BOTH BEFORE AND AFTER CONSTRUCTION, TO ENSURE NO PONDING OF WATER ON OR ADJACENT TO THE SLAB AREA. SPOON DRAINS SHALL BE PROVIDED AS REQUIRED TO FACILITATE DRAINAGE ADJACENT TO THE SLAB AND AT THE TOPS OF BANKS.
- P.9. ALL SLABS SHALL BE CAST ON A MINIMUM THICKNESS OF 50mm OF BEDDING SAND.

**CONCRETE**

- C.1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1379, AS1478, AS2870, AS3600, AND AS3610.
- C.2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

CONCRETE SCHEDULE					
ELEMENT	EXPOSURE CLASSIFICATION	CLASS & GRADE	CLEAR COVER TO REINF'T	MAX. AGG. SIZE (mm)	MAX. SLUMP (mm)
STORMWATER PIT WALLS	B1	N32	40	20	80
STORMWATER PIT BASE	B1	N32	45	20	80
STORMWATER PIT ROOF SLAB	B1	N40	30	20	80

- C.3. DO NOT ADD WATER TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT.
- C.4. ALL ADMIXTURES TO COMPLY WITH AS1478 AND MUST NOT REDUCE STRENGTH OF CONCRETE. ALL ADMIXTURES TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. CONCRETE ADDITIVES SHALL NOT PROMOTE CORROSION OF REINFORCEMENT. DO NOT USE ADMIXTURES WITHOUT PRIOR APPROVAL FROM SUPERINTENDENT.
- C.5. DESIGN OF FORMWORK IS THE CONTRACTORS RESPONSIBILITY. DESIGN TO ALLOW FOR DIMENSIONAL CHANGES AND DEFLECTIONS RESULTING FROM IMPOSED ACTIONS, CONCRETE SHRINKAGE AND CREEP, TEMPERATURE CHANGES, AND THE APPLICATION OF PRESTRESSING FORCES (IF ANY).
- C.6. DO NOT USE FORMWORK HARDWARE THAT FORMS A COMPLETE HOLE THROUGH CONCRETE ELEMENTS. DO NOT USE REINFORCEMENT TO SUPPORT FORMWORK.
- C.7. EXPOSED EDGES AND RE-ENTRANT CORNERS TO BE CONSTRUCTED WITH 25mm x 45° CHAMFER UNO.
- C.8. DO NOT MAKE PENETRATIONS, RECESSES, OR EMBED PIPES (OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS) WITHOUT PRIOR APPROVAL OF SUPERINTENDENT.
- C.9. ACHIEVE MINIMUM COVER ON ALL EMBEDDED REINFORCEMENT, LIGATURES, TIES, CONDUITS, AND PIPES.
- C.10. USE PLACEMENT METHODS THAT WILL MINIMUM SETTLEMENT AND PLASTIC SHRINKAGE CRACKING. MAINTAIN A NOMINALLY VERTICAL AND PLASTIC CONCRETE EDGE DURING PLACEMENT.
- C.11. USE IMMERSION AND SCREED VIBRATORS ACCOMPANIED BY HAND METHODS AS APPROPRIATE TO REMOVED ENTRAPPED AIR TO FULLY COMPACT THE MIX. DO NOT ALLOW VIBRATORS TO CONTACT SET CONCRETE, REINFORCEMENT OR ITEMS INCLUDING PIPES AND CONDUITS EMBEDDED IN CONCRETE. AVOID CAUSING SEGREGATION BY OVER-VIBRATION.
- C.12. CURING OF ALL CONCRETE MUST BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS UNO IN ACCORDANCE WITH AS3600. APPROVED SPRAY-ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAYBE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM THE WIND AND TRAFFIC. CURING MUST COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT.
- C.13. DO NOT STRIP FORMWORK PRIOR TO 48 HOURS AFTER PLACEMENT.

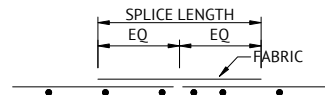
**REINFORCEMENT**

- R.1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS:
  - R: DENOTES STRUCTURAL GRADE 250 PLAIN ROUND BAR AS4671
  - N: DENOTES HOT ROLLED GRADE 500 DEFORMED BAR DUCTILITY CLASS N TO AS4671.
  - L: DENOTES HARD DRAWN WIRE GRADE 500 SQUARE REINFORCING MESH DUCTILITY CLASS L TO AS4671.
  - L: DENOTES HARD DRAWN WIRE GRADE 500 RECTANGULAR REINFORCING MESH DUCTILITY CLASS L TO AS4671
  - SL: DENOTES HARD DRAWN WIRE GRADE 500 SQUARE REINFORCING MESH DUCTILITY CLASS L TO AS4671
  - TM: DENOTES HARD DRAWN WIRE GRADE 500 TRENCH MESH DUCTILITY CLASS L TO AS4671
- R.2. ALL N BARS TO BE GRADE 500.
- R.3. FOLLOWING ABBREVIATIONS APPLY TO LOCATION OF REINFORCEMENT
  - EW: EACH WAY - FF: FAR FACE - BB: BOTTOM BOTTOM (LAID FIRST)
  - EF: EACH FACE - B: BOTTOM - TT: TOP TOP (LAID LAST)
  - NF: NEAR FACE - T: TOP - CP: CENTRALLY PLACED
- R.4. CLEAR COVER TO REINFORCEMENT SHALL BE PROVIDED BY APPROVED CHAIRS, SPACERS OR TIES AS REQUIRED TO PROVIDE ADEQUATE SUPPORT AS FOLLOWS:
  - BARS 16mm AND LESS AND FABRIC - 1000mm CENTRES
  - BARS 20mm AND OVER - 1200mm CENTRES.
- R.5. USE MESH SUPPLIED IN FLAT SHEETS UNLESS APPROVED OTHERWISE.
- R.6. WELDING AND BENDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY ENGINEER.
- R.7. LAP LENGTHS TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT > 150mm CENTRES WITH THE FOLLOWING UNO - REFER TO TABLE BELOW:

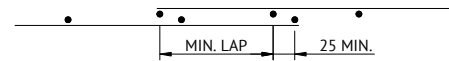
REINFORCEMENT LAP TABLE						
LOCATION	F'c	BAR SIZE AND LAP LENGTH (mm)				
		N12	N16	N20	N24	N28
HORIZONTAL BARS WITH < 300mm CONCRETE BELOW	25	525	800	1000	1300	1600
	32	475	700	875	1175	1400
	40+	450	625	775	1050	1250
HORIZONTAL BARS WITH ≥ 300mm CONCRETE BELOW BAR, & VERTICAL BARS	25	700	1050	1300	1700	2050
	32	625	925	1175	1525	1850
	40+	575	825	1000	1350	1650

**REINFORCEMENT NOMINATIONS**

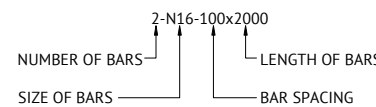
- RN.1. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS OR AS APPROVED BY SUPERINTENDENT. LAP LENGTH TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT > 150mm CENTRES WITH THE FOLLOWING UNO:



- RN.2. PROVIDE MINIMUM MESH LAPS TO CROSS WIRES OF REINFORCING MESH, SO THAT TWO OUTERMOST WIRES OF ONE SHEET OVERLAP TWO OUTERMOST WIRES OF ADJACENT SHEET BY AT LEAST 25mm, THUS:



- RN.3. NOMINATION CALL OUT DESCRIPTION:



**INSPECTION AND CERTIFICATION REQUIREMENTS**

- IC.1. FOR FINAL ENGINEERING CERTIFICATION TO BE PROVIDED BY PREMISE, ALL THE APPLICABLE STRUCTURAL ELEMENTS SHALL BE INSPECTED BY A PREMISE REPRESENTATIVE. TYPICAL HOLD POINTS:
  - CONCRETE PIT SLAB / WALLS
  - ALL CONCRETE ELEMENTS MUST BE INSPECTED AFTER PLACEMENT OF REINFORCEMENT AND PRIOR TO CONCRETE POUR.
- IC.2. ALL INSPECTIONS REQUIRE A MINIMUM 24 HOUR NOTICE.
- IC.3. IF IN DOUBT OF REQUIREMENT OF INSPECTION, ASK.
- IC.4. OBTAIN GEOTECHNICAL ENGINEER'S WRITTEN INSTRUCTION AT PREPARATION OF FOUNDING MATERIAL AND FORWARD TO STRUCTURAL ENGINEER FOR APPROVAL, AT BUILDER'S COST.
- IC.5. FOR FINAL ENGINEERING CERTIFICATION TO BE PROVIDED BY PREMISE, THE FOLLOWING MUST BE PROVIDED:
  - DOCUMENTARY EVIDENCE OF SLUMP TEST RESULTS (AT LEAST ONE SAMPLE TO BE FROM EACH BATCH. SLUMP TO BE MEASURED ON SITE, AT THE POINT OF DISCHARGE FROM THE AGITATOR).
  - FOR CAST IN-SITU CONCRETE ELEMENTS 28 DAY COMPRESSIVE STRENGTH TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. SAMPLES TO BE COLLECTED EQUALLY SPREAD THROUGHOUT THE POUR. AT LEAST 2 SAMPLES SHALL BE TAKEN PER DAY. EACH SAMPLE TO COMPRISE OF TWO CYLINDERS.
  - FOR PRECAST CONCRETE ELEMENTS 3, 7, 14, AND 28 DAY COMPRESSIVE STRENGTH TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. SAMPLES TO BE COLLECTED EQUALLY SPREAD THROUGHOUT THE POUR. AT LEAST 4 SHALL BE TAKEN PER DAY. EACH SAMPLE TO COMPRISE OF TWO CYLINDERS.
  - FOR ALL CONCRETE ELEMENTS 56 DAY DRYING SHRINKAGE TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. AT LEAST 3 DRYING SHRINKAGE SAMPLES TO BE COLLECTED FROM EACH MIX DESIGN EVERY THREE MONTHS. BASE ASSESSMENT ON AVERAGE OF THREE TEST RESULTS.
  - DOCUMENTARY EVIDENCE TO SHOW REINFORCEMENT SUPPLIER AND MILL COMPLIES WITH AS/NZS4671
  - TESTING TO BE PERFORMED BY AN INDEPENDENT NATA ACCREDITED AUTHORITY.
- IC.6. INSPECTIONS UNDERTAKEN BY SUPERINTENDENT OR OTHERS DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATION.

STRUCTURAL DETAILS APPROVED  
  
 BRIONY HOOPER RPEQ 10854

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 PROJECT MANAGER  
**SIMON STEINHOFER**  
 PROJECT DIRECTOR  
  
**PATRICK BRADY** RPEQ 7112

SCALE  
 CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER STRUCTURE NOTES**  
 ORIGINAL SHEET SIZE A1

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C450**  
 REV  
**B**

**NOTES**

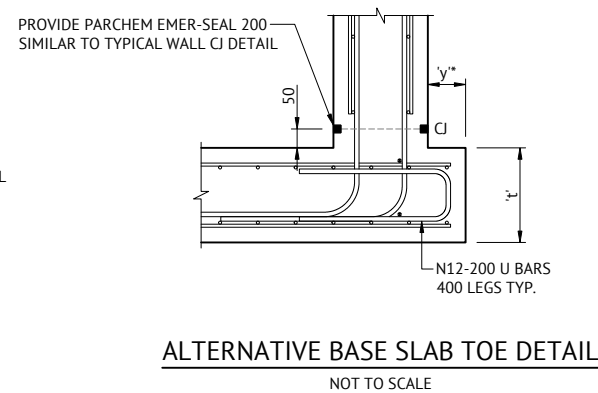
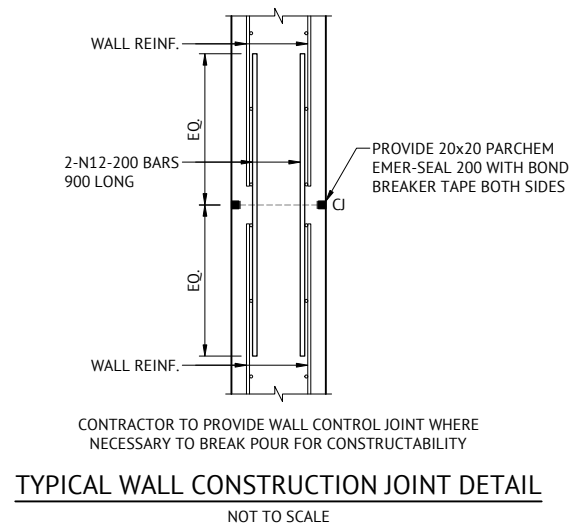
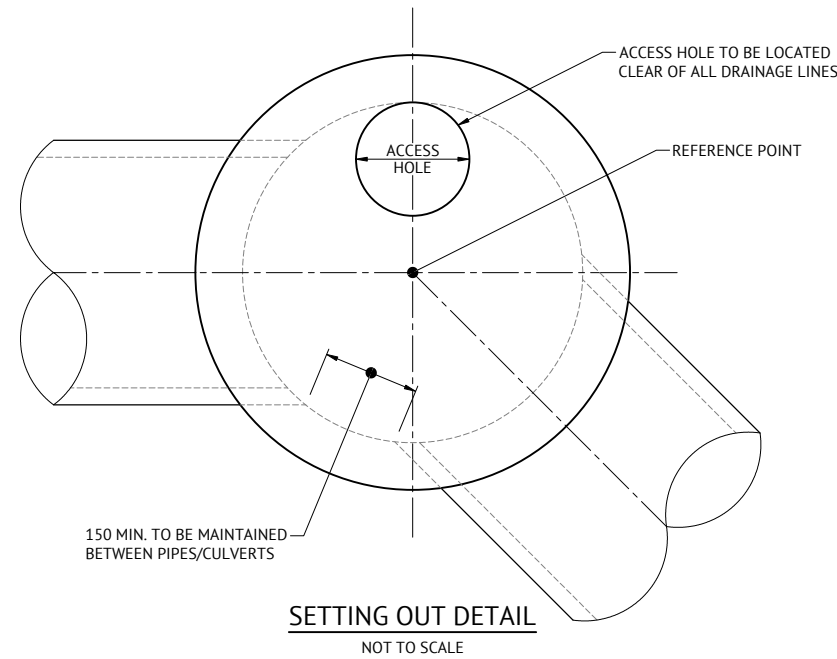
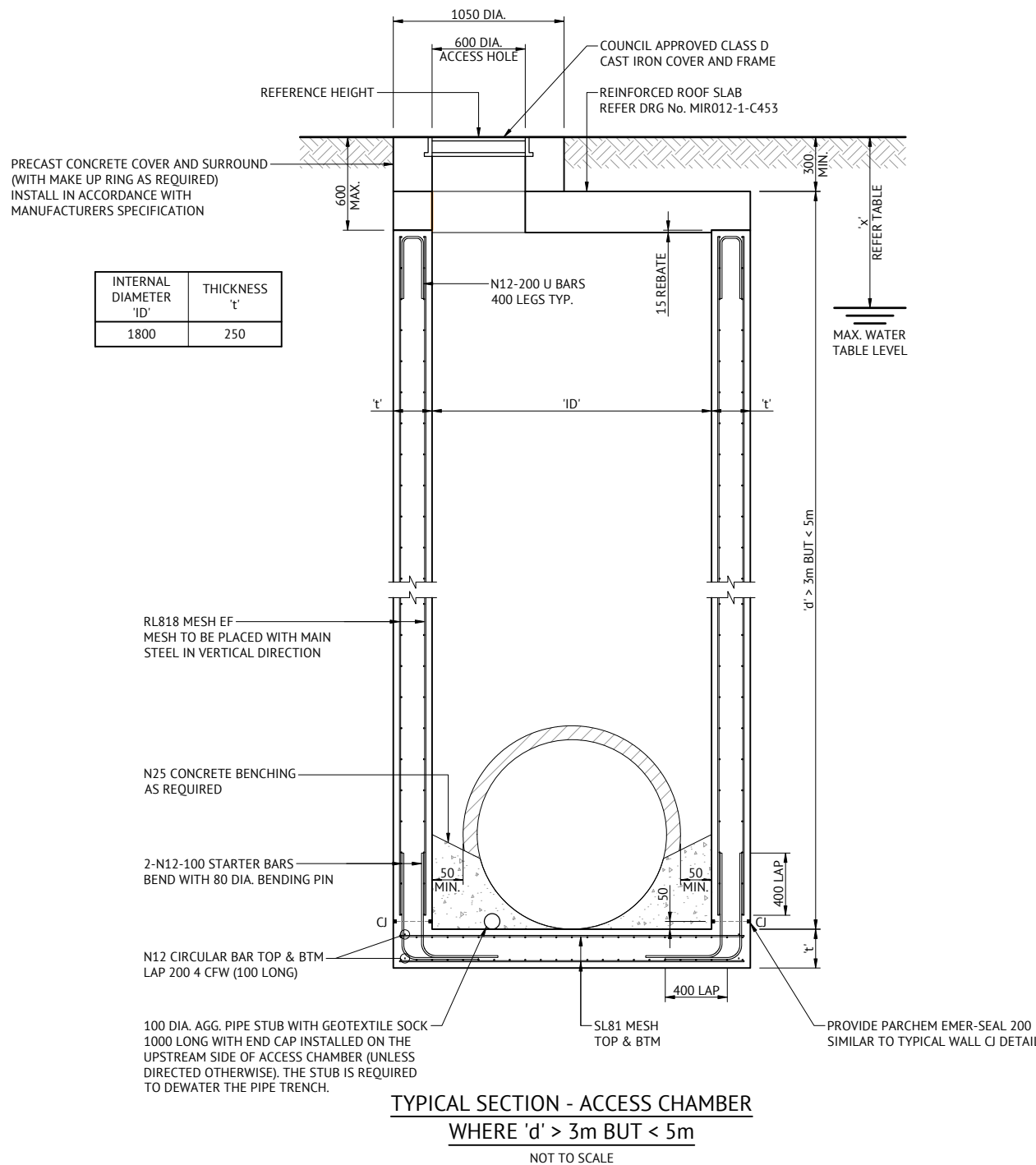
- FOR STRUCTURAL NOTES REFER TO DRAWING No. MIR-0904-C450
- REFER CIVIL DRAWINGS FOR REFERENCE HEIGHT, SETTING OUT REFERENCE POINT, SIZE AND HEIGHT OF CULVERTS.
- PRECAST UNITS MAY BE USED AND INSTALLED TO THE MANUFACTURER'S DETAILS, PROVIDED THEY CONFORM TO AS3600 AND AUSTRALIAN BRIDGE DESIGN CODE.
- LIFTING ANCHORS TO BE 'SWIFTLIFT' OR APPROVED EQUIVALENT, GALVANISED TO AS/NZS4680 AND FITTED TO MANUFACTURER'S SPECIFICATIONS.  
- PIT 1050 TO 1800 ID WALL 1.3 TONNE (75 MIN. EMBEDMENT)
- COVERS AND FRAMES SHALL COMPLY WITH THE REQUIREMENTS OF AS3996 CLASS D DESIGN LOAD. APPROVED COVERS AND FRAMES ARE TO BE USED.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- ALL WELDS SHALL BE E48XX SP 6mm CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AS1554.1 UNO.
- REFER TO DRAWING No. C453 FOR REINFORCED ROOF SLAB DETAILS

**MINIMUM LIFTING REQUIREMENTS**

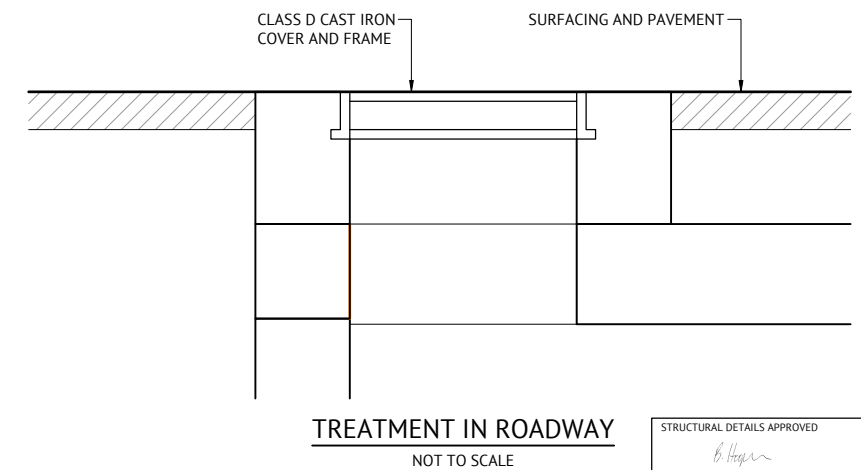
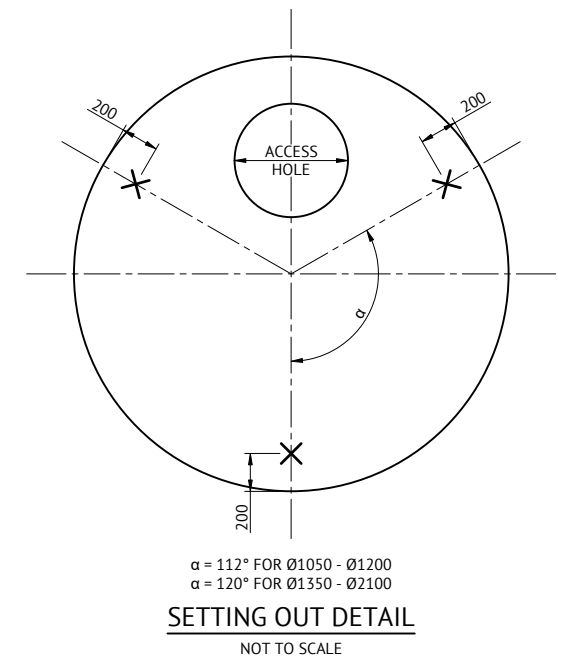
- LIFTING AND PLACEMENT OF PRECAST ROOF SHALL NOT OCCUR UNTIL MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF 25MPa IS ACHIEVED. THE CONTRACTOR SHALL DEMONSTRATE THAT THE DESIGN CHARACTERISTIC COMPRESSIVE STRENGTH HAS BEEN ACHIEVED VIA NATA APPROVED TESTING WHICH IS TO BE SUBMITTED TO PREMISE FOR APPROVAL PRIOR TO LIFTING.
- MAXIMUM HOISTING SPEED DURING LIFT 1.5 m/s
- MAXIMUM ACCELERATION AND DECELERATION DURING LIFTING 0.5 m/s/s

PIT MARK	DIMENSIONS			MIN 'x' * DIMENSION
	PIT INTERNAL DIAMETER 'ID'	WALL THICKNESS 't'	BASE THICKNESS 't'	
6/500	1800	250	250	750
7/500	1800	250	250	750

NO GEOTECHNICAL DATA OR WATER TABLE MEASUREMENTS HAVE BEEN PROVIDED AT TIME OF DESIGN. CONTRACTOR TO ENGAGE GEOTECHNICAL ENGINEER TO CONFIRM WATER TABLE LEVEL ON SITE. IF WATER TABLE IS HIGHER THAN THE LEVEL NOMINATED BY THE 'x' DIMENSIONS, NOTIFY STRUCTURAL ENGINEER AND ADOPT ALTERNATIVE BASE SLAB TOE DETAIL.



\* 'y' DIMENSION TO BE ASSESSED BY STRUCTURAL ENGINEER AFTER WATER TABLE LEVELS ARE CONFIRMED



STRUCTURAL DETAILS APPROVED  
BRIONY HOOPER RPEQ 10854

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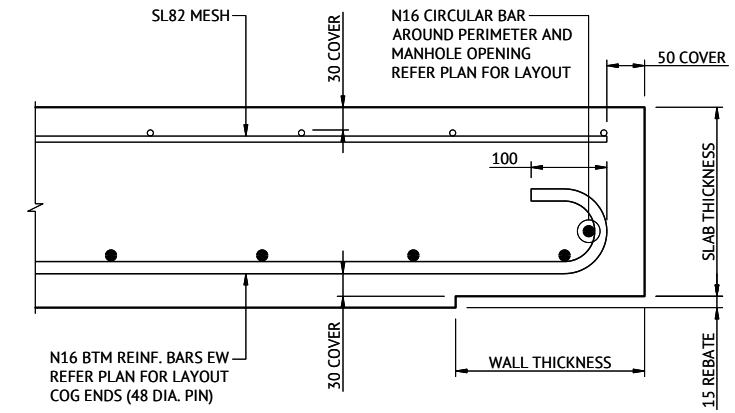
SCALE  
ORIGINAL SHEET SIZE A1

CLIENT  
MIRVAC QLD PTY LTD  
PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
STORMWATER STRUCTURE CIRCULAR PIT BASE & WALLS

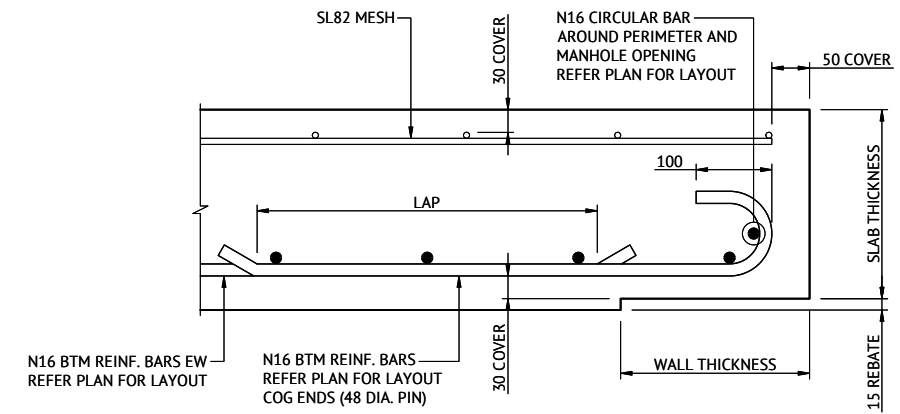
JOB CODE  
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SHEET NUMBER  
C451  
REV  
B

**NOTES**

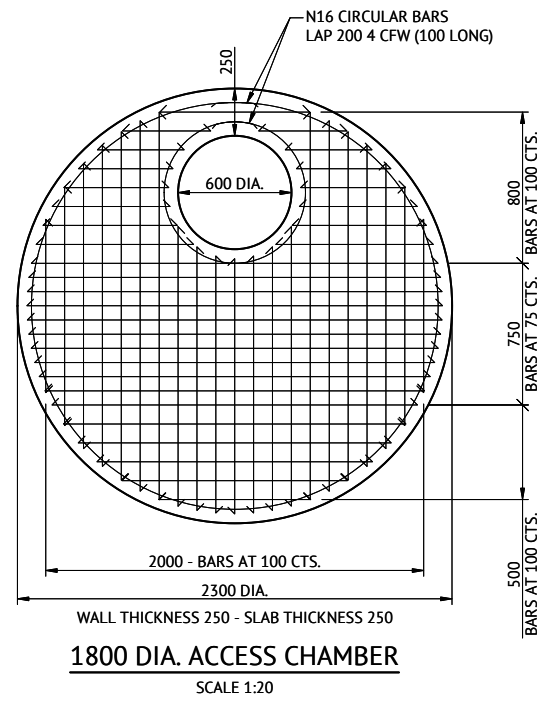
1. FOR STRUCTURAL NOTES REFER TO DRAWING No. MIR-0904-C450
2. ROOF SLAB THICKNESS DOES NOT INCLUDE 15mm REBATE. REFER TYPICAL PART SECTION FOR DETAILS.
3. FOR LIFTING ANCHOR LOCATIONS AND DETAILS REFER TO DRG No. MIR012-1-C2151
4. BOTTOM REINFORCEMENT ONLY SHOWN ON PLANS. TOP REINFORCEMENT TO BE SL82 MESH AS DETAILED IN TYPICAL PART SECTION.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
6. ALL WELDS SHALL BE E48XX SP 6mm CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AS1554.1 UNO.
7. REFER TO DRAWING No. C452 FOR REINFORCED PIT DETAILS



**TYPICAL PART SECTION**  
SCALE 1:5



**ALTERNATIVE PART SECTION**  
SCALE 1:5



**PIT ROOF DETAILS FOR PITS GREATER THAN 3m DEEP**

STRUCTURAL DETAILS APPROVED  
*Briony Hooper*  
BRIONY HOOPER RPEQ 10854

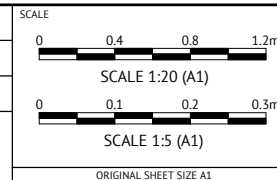
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PROJECT DIRECTOR  
*Patrick Brady*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
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PROJECT  
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LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER STRUCTURE CIRCULAR PIT ROOF**

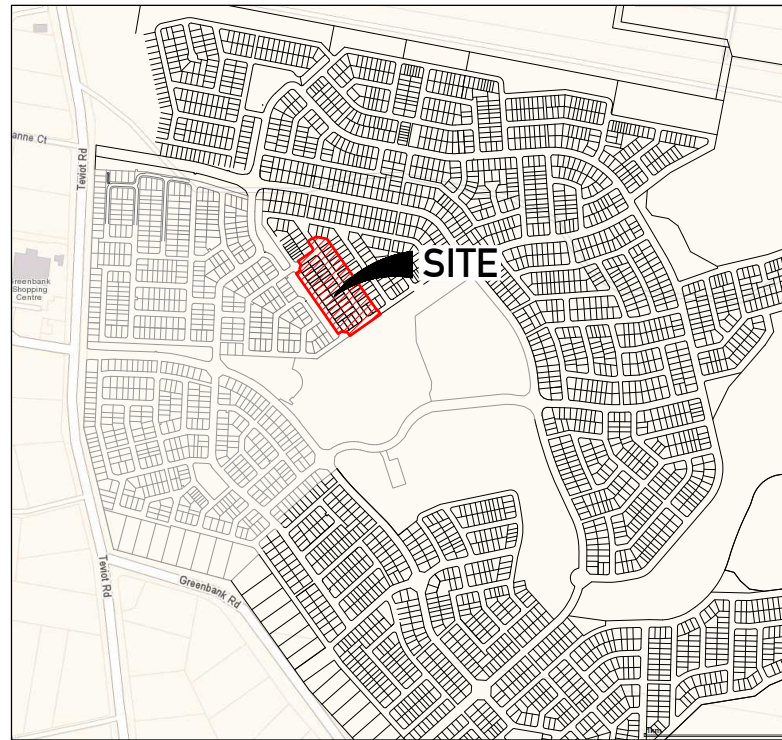
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**C452**  
REV  
**B**

# EVERLEIGH PRECINCT 9.4 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 9.4 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 - C511	
No. OF ALLOTMENTS	46	
AREA ha	2.88ha	
LENGTH OF SEWERS	DN150 uPVC SN8	834.43m
	DN225 uPVC SN8	160.13m

#### 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
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
08/11/2021	B	AMENDED DETAILS AND LOCALITY PLA	KK	PB
28/10/2021	A	ORIGINAL ISSUE	KK	PB



**BRISBANE OFFICE**  
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 WEB: www.premise.com.au

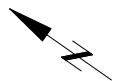
DESIGNED  
**KLYNT KIWANG**  
 CHECKED  
**ANDREW LANGDON**  
 PROJECT MANAGER  
**SIMON STEINHOFER**  
 PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LOCALITY PLAN & NOTES**

JOB CODE  
**MIR-0904**  
 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 FOOTPATH & KERB RAMP
- STAGE BOUNDARY
- FALL ARROW

**LEGEND - CONSTRUCTED**

- Ø100mm CONSTRUCTED PROPERTY CONNECTION
- GRAVITY SEWER
- SEWER WORKS COMPLETED IN PRECINCT 9.3 NOT HANDED OVER TO LOGAN WATER. CONNECTIONS TO THIS INFRASTRUCTURE ARE NOT TO BE TREATED AS LIVE WORKS, THE CONSTRUCTED 9.3 INFRASTRUCTURE IS TO BE INCLUDED IN THE HANDOVER WITH PRECINCT 9.4 TO LOGAN WATER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).

**CONSTRUCTED HOUSE CONNECTION DETAILS**

LOT #	INVERT LEVEL	DEPTH
3199	50.393	1.250
3211	55.678	1.250

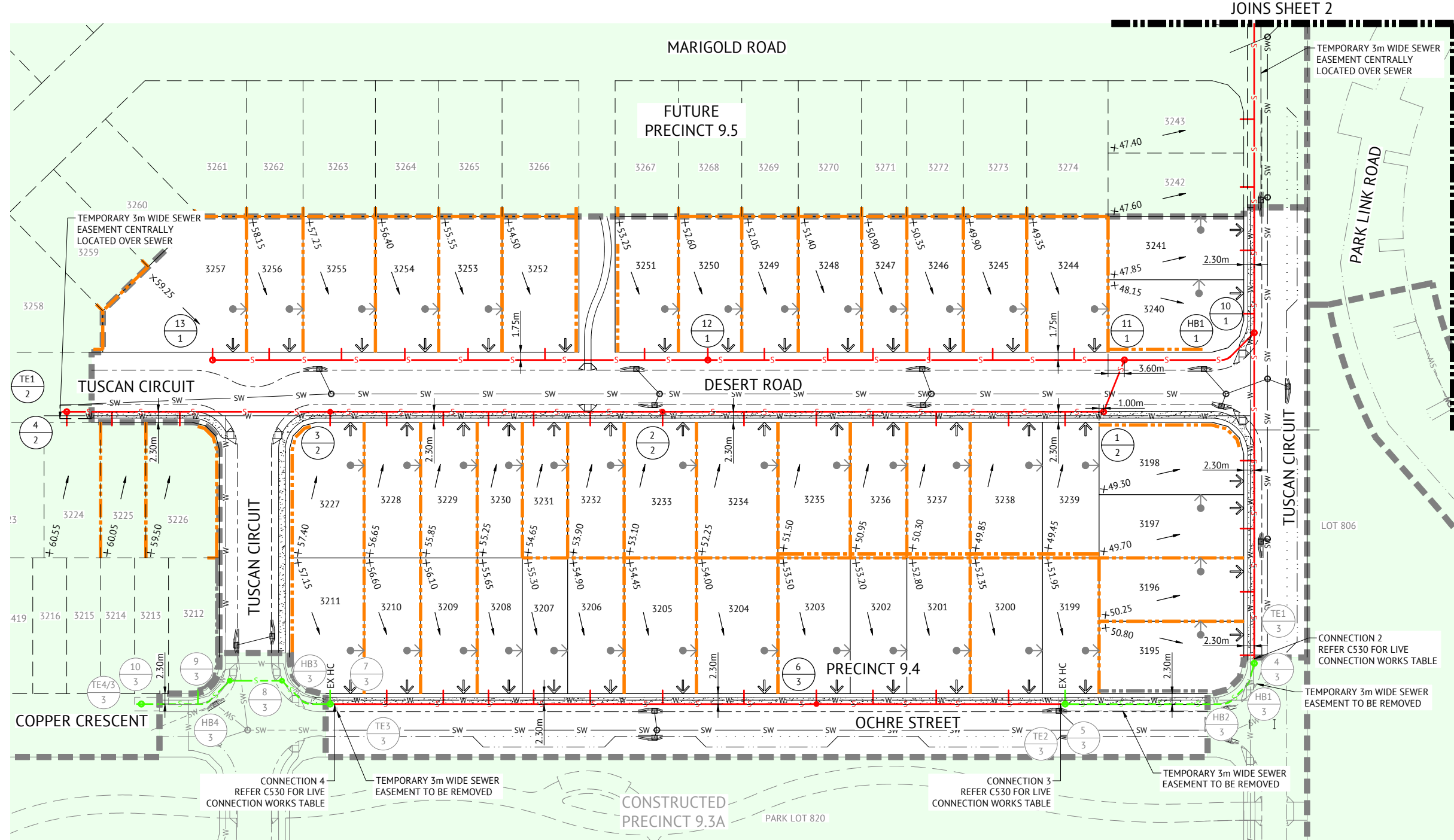
FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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.



**LAYOUT PLAN**  
SCALE 1:500

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK PB
08/11/2021	B	ADDED FALL ARROWS TO LOTS, MOVED MANHOLE 11/1, ADDED DIMENSION	KK PB
04/11/2021	A	ORIGINAL ISSUE	KK PB

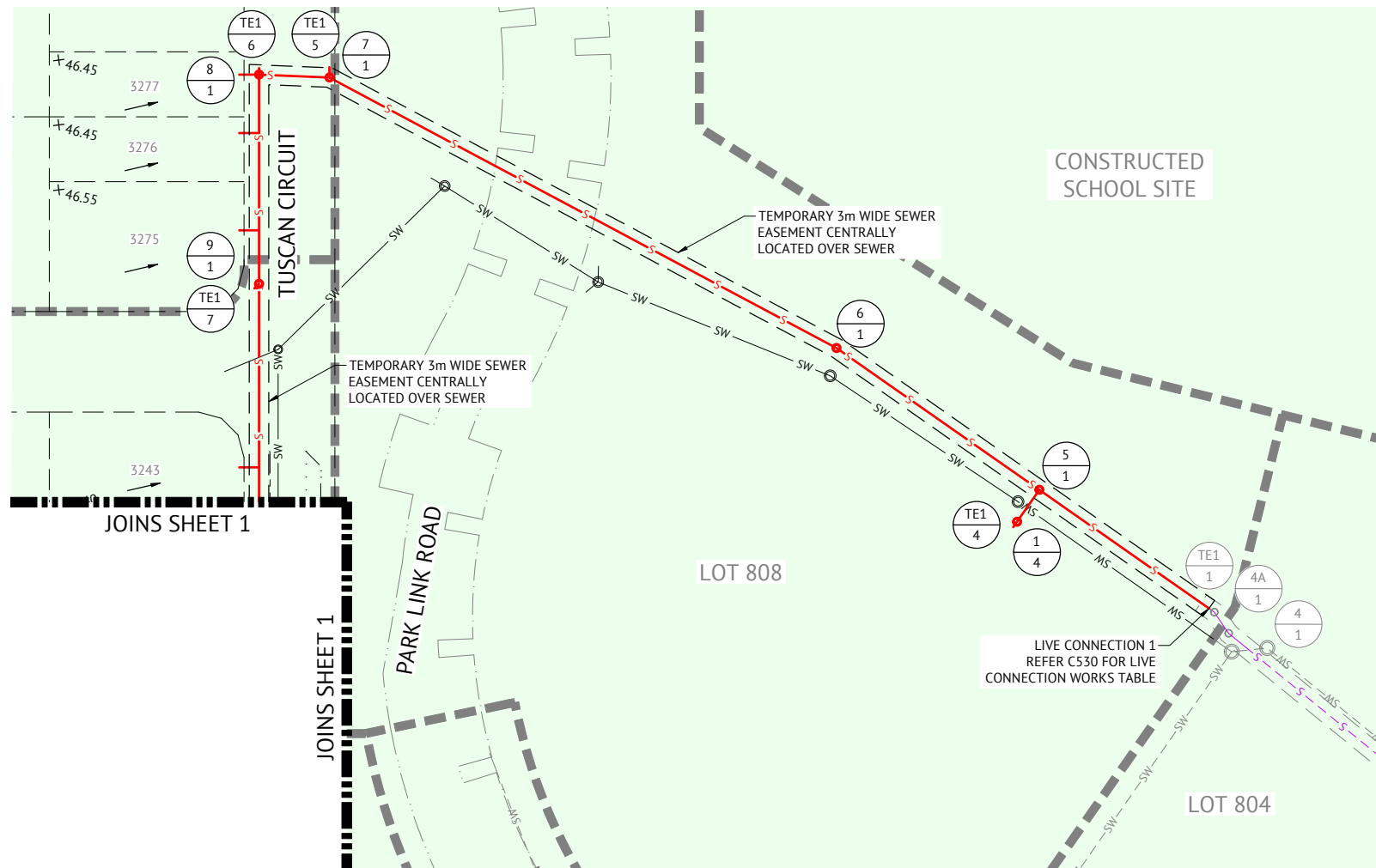
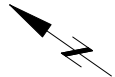
**Premise**  
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**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 1**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C510**  
REV  
**C**



LAYOUT PLAN  
SCALE 1:500

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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REC	APP
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
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04/11/2021	A	ORIGINAL ISSUE	KK	PB

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PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112

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

CLIENT  
MIRVAC QLD PTY LTD  
PROJECT  
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
SEWERAGE LAYOUT PLAN - SHEET 2

JOB CODE  
MIR-0904  
SHEET NUMBER  
C511  
REV  
C

MAINTENANCE HOLE / SHAFT NO.	TE1/1	5/1	6/1	7/1	8/1	9/1	10/1	HB1/1	11/1	12/1	13/1	11/1	1/2	
MH / MS COVER TYPE		B	B	B	B	B	B		B	B	B	B	B	
MH / MS TYPE	TE	A	A	A	A	A	A	TP	LRB	TP	A	J	J	
MH DROP TYPE		V	V	V	V	V	V				V	V	V	
LINE NO.		4	1	1	5	1	6	1	7	1	3	1	2	1
PROPERTY CONNECTION DEPTH							44.622	1.250						
PROPERTY CONNECTION INVERT LEVEL							44.708	1.250						
PROPERTY CONNECTION TYPE							B							
LOT NO.					3277	3276	3275		3243	3242	3241	3240		

**LEGEND**  
 RR DENOTES ROAD RESERVE  
 PP DENOTES PRIVATE PROPERTY

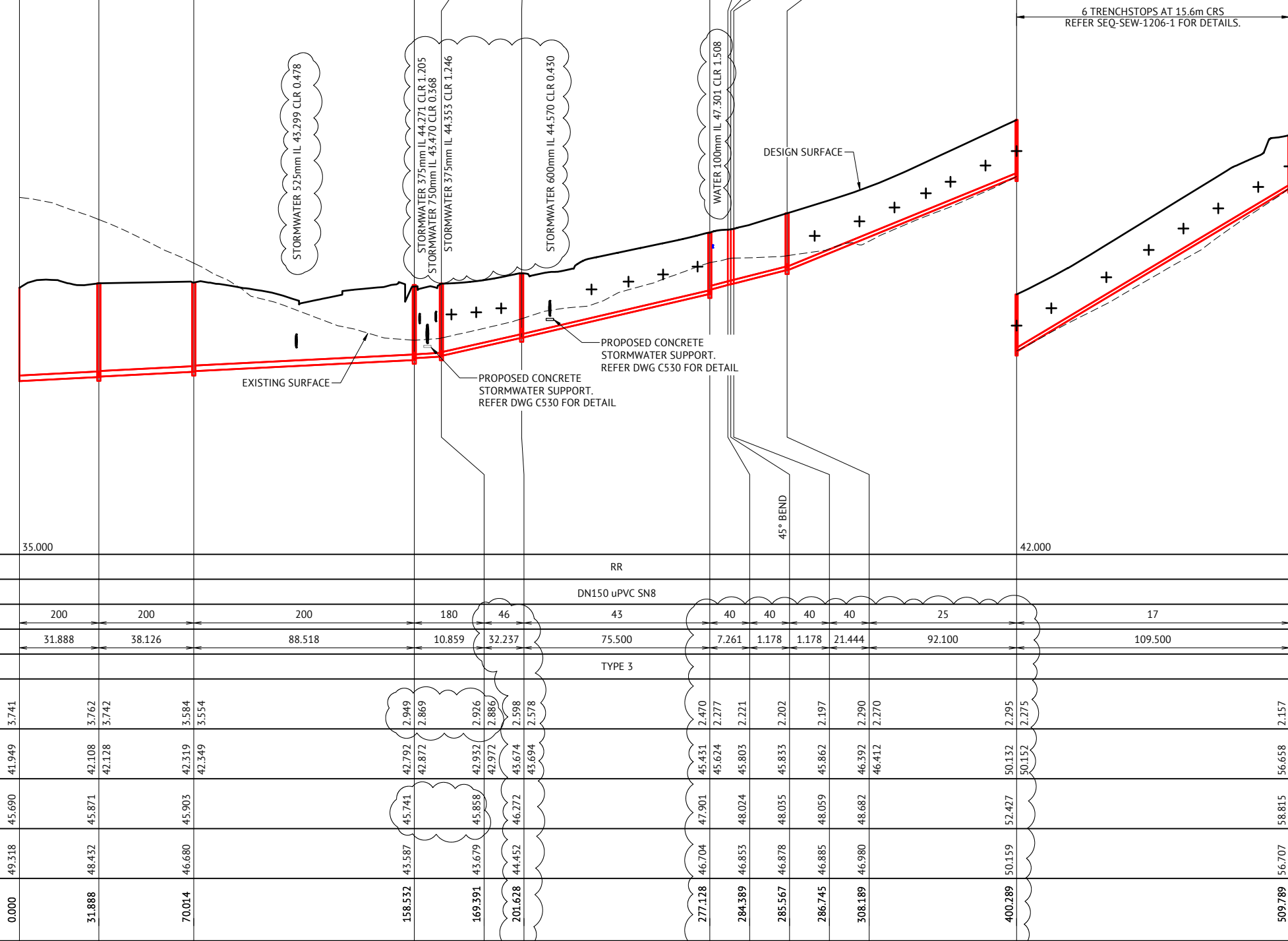
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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

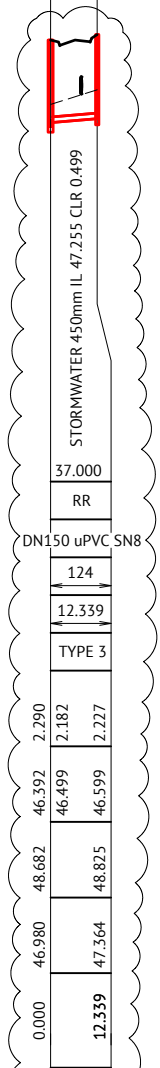
PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

**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	35.000												42.000											
PROPERTY DESCRIPTION													RR											
PIPE SIZE (mm), CLASS													DN150 uPVC SN8											
GRADE (1 IN X)	200		200		200		180		46		43		40		40		40		25		17			
LENGTH	31.888		38.126		88.518		10.859		32.237		75.500		7.261		1.178		1.178		21.444		92.100		109.500	
EMBEDMENT TYPE													TYPE 3											
DEPTH OF INVERT BELOW FSL	3.741		3.762		3.742		3.584		3.554		2.949		2.869		2.926		2.886		2.290		2.270		2.157	
INVERT LEVEL (IL)	41.949		42.108		42.128		42.319		42.349		42.792		42.872		42.932		42.972		45.431		45.624		45.803	
FINISHED SURFACE LEVEL (FSL)	45.690		45.871		45.903		45.903		45.903		45.741		45.858		46.272		46.272		46.885		48.059		48.682	
EXISTING SURFACE LEVEL (ESL)	49.318		48.432		46.680		43.587		43.587		43.587		43.679		44.452		44.452		46.704		46.853		46.878	
CHAINAGE (CH)	0.000		31.888		70.014		158.532		169.391		201.628		277.128		284.389		285.567		286.745		308.189		400.289	

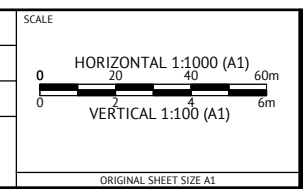


**FOR CONSTRUCTION**



**BRISBANE OFFICE**  
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DESIGNED  
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 CHECKED  
**ANDREW LANGDON**  
 PROJECT MANAGER  
**SIMON STEINHOFER**  
 PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LONG SECTIONS - SHEET 1**

JOB CODE  
**MIR-0904**  
 SHEET NUMBER  
**C520**  
 REV  
**D**

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	D	UPDATED LONG SECTIONS	KK	PB
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
08/11/2021	B	UPDATED SERVICE CROSSINGS	KK	PB
04/11/2021	A	ORIGINAL ISSUE	KK	PB



MAINTENANCE HOLE / SHAFT NO.

MH / MS COVER TYPE	TP	B	B	LRB	B	TE
MH / MS TYPE		A	J		A	
MH DROP TYPE		V	V		V	
LINE NO.		3	3		3	3
PROPERTY CONNECTION DEPTH		56.126	1.250			
PROPERTY CONNECTION INVERT LEVEL		B	B			
PROPERTY CONNECTION TYPE		B	B			
LOT NO.		3212	3213			

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

PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	36 167 17 17 17 17
LENGTH	6.042 11.534 6.042 1.178 1.178 13.156 1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	3.034 3.047 2.820 2.756 2.726 2.310 2.241 2.204 2.225 2.205 2.213
INVERT LEVEL (IL)	54.156 54.325 54.553 54.672 54.652 55.008 55.078 55.147 55.923 55.943 56.003
FINISHED SURFACE LEVEL (FSL)	57.191 57.373 57.378 57.318 57.318 57.319 57.351 58.148 58.215 58.215 58.215
EXISTING SURFACE LEVEL (ESL)	53.700 53.691 54.267 54.474 54.518 54.518 54.563 55.327 55.396 55.396 55.396
CHAINAGE (CH)	289.104 295.146 306.680 312.723 313.901 315.079 328.235 329.235

LINE

CONSTRUCTED BROUGHT FORWARD INFRASTRUCTURE TO BE HANDED OVER TO LOGAN WATER AS PART OF PRECINCT 9.4 WORKS.

1 TRENCHSTOPS CENTRALLY PLACED REFER SEQ-SEW-1206-1 FOR DETAILS.

DESIGN SURFACE

EXISTING SURFACE

45° BEND

STORMWATER 1350mm IL 42.789 CLR 0.354

PROPOSED CONCRETE STORMWATER SUPPORT. REFER DWG C530 FOR DETAIL

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.

33.000	32.000	32.000	32.000	32.000
RR	RR	RR	RR	RR
DN150 uPVC SN8	DN225 uPVC SN8	DN150 uPVC SN8	DN225 uPVC SN8	DN225 uPVC SN8
180 60	290	180	31	
6.000 1.000	1.600	1.000	1.000	
TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3
3.762 3.682 4.040 2.112 2.099	2.949 2.869 2.861	2.976 2.846 2.839	2.598 2.369 2.374	
42.108 42.188 42.222 44.150 44.166	42.792 42.872 42.877	42.952 43.012 43.018	43.674 43.903 43.955	
45.741 45.738	45.858 45.856	46.272 46.309		
48.432 48.412 48.409	43.587 43.546	44.452 44.502		
0.000 6.000 7.000	0.000 1.600	0.000 1.000	0.000 1.000	

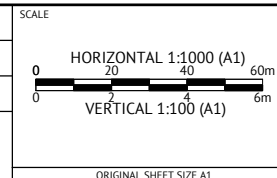
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/07/2022	D	UPDATED LONG SECTIONS	KK	PB
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
08/11/2021	B	ADDED CROSSING DETAILS	KK	PB
04/11/2021	A	ORIGINAL ISSUE	KK	PB



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PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112



CLIENT

MIRVAC QLD PTY LTD

JOB CODE

MIR-0904

PROJECT

EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

SEWERAGE LONG SECTIONS - SHEET 3

SHEET NUMBER

C522

REV

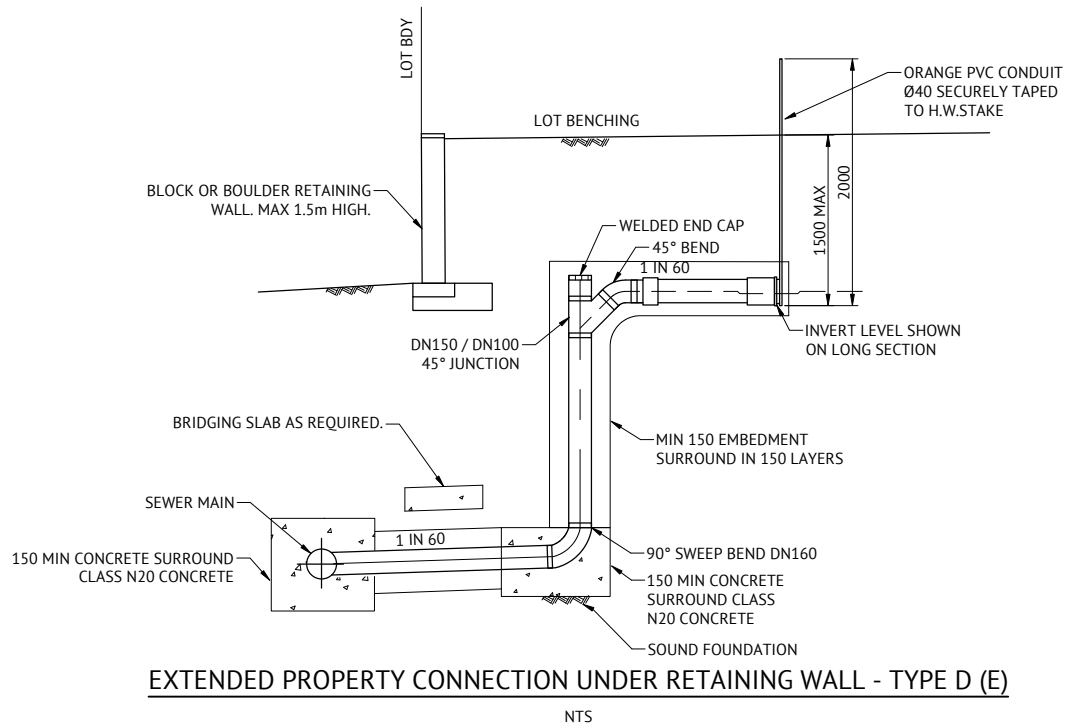
D

**LIVE SEWER WORKS**

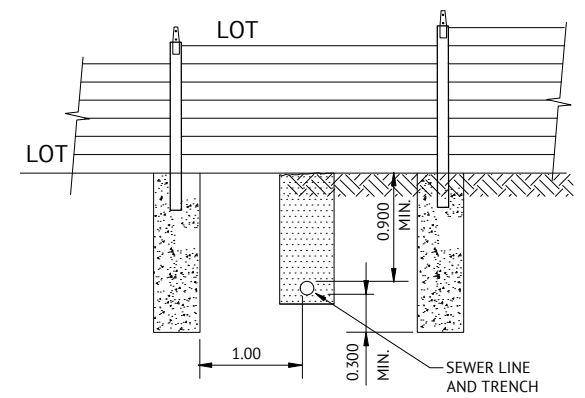
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/1, CONSTRUCTOR TO LAY NEW LINE 1. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	225	TE1/1	END	-	808	45.690	45.690	41.949	3.741
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 1 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP TE1/3, CONSTRUCTOR TO LAY NEW LINE 3. AFTER CLEANSING, TESTING AND INSPECTING.	150	TE1/3	END	-	3195	50.532	49.273	47.747	2.785
2(B)	CONSTRUCTOR TO REMOVE TEMPORARY END CAP ON STUB AND LINE 3 AND MAKE LIVE CONNECTIONS.									
3(A)	0.5m FROM STUB END CAP TE2/3, CONSTRUCTOR TO LAY NEW LINE 3. AFTER CLEANSING, TESTING AND INSPECTING.	150	TE2/3	END	-	3199	51.674	50.345	49.259	2.416
3(B)	CONSTRUCTOR TO REMOVE TEMPORARY END CAP ON STUB AND LINE 3 AND MAKE LIVE CONNECTIONS.									
4(A)	0.5m FROM STUB END CAP TE3/3, CONSTRUCTOR TO LAY NEW LINE 3. AFTER CLEANSING, TESTING AND INSPECTING.	150	TE3/3	END	-	3211	56.888	53.382	53.913	2.975
4(B)	CONSTRUCTOR TO REMOVE TEMPORARY END CAP ON STUB AND LINE 3 AND MAKE LIVE CONNECTIONS.									

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

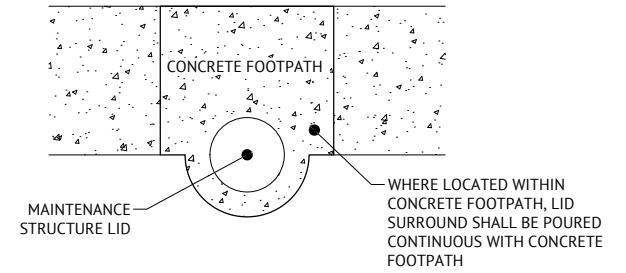
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE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



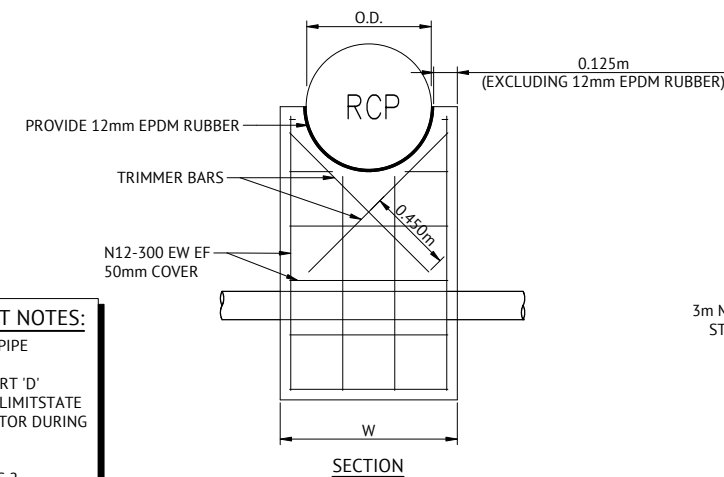
**EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)**



**SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL**



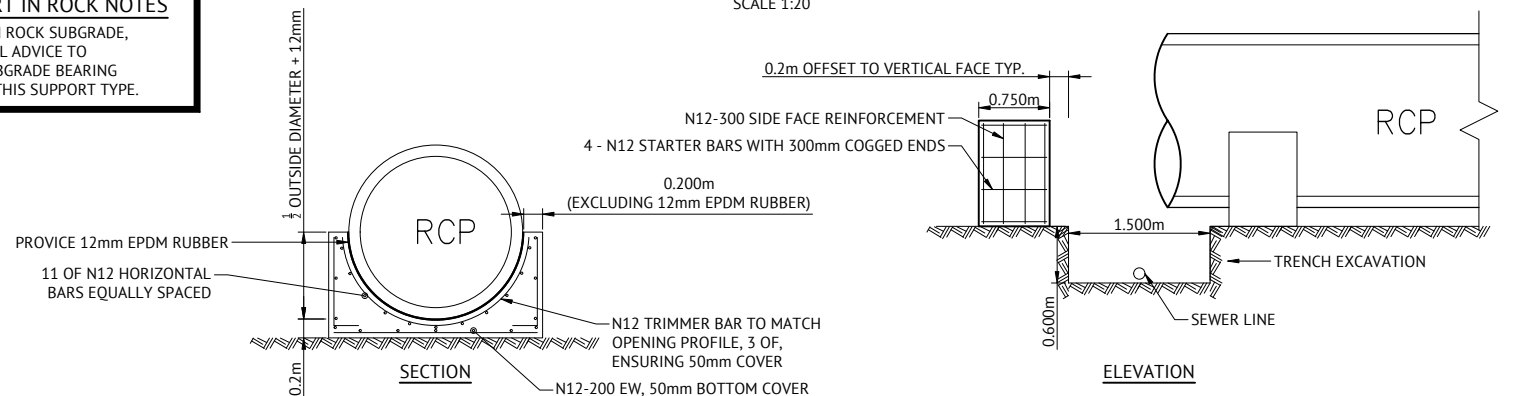
**TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL**



**CONCRETE STORMWATER SUPPORT TYPICAL DETAIL**

SCALE 1:20

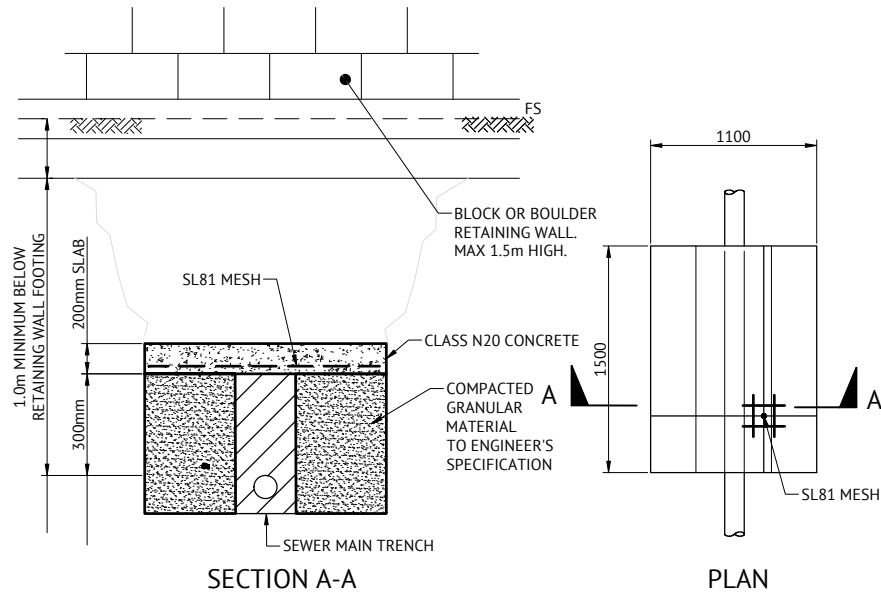
0.2m OFFSET TO VERTICAL FACE TYP.



**CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL**

SCALE 1:40

STRUCTURAL DETAIL DATE  
BRIONY HOOPER RPEQ 10854



**SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL**

NTS

**GENERAL CONCRETE STORMWATER SUPPORT NOTES:**

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

**CONCRETE STORMWATER SUPPORT IN ROCK NOTES**

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

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
04/11/2021	A	ORIGINAL ISSUE	KK	PB

**Premise**  
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DESIGNED  
**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112

SCALE  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**SEWERAGE NOTES AND DETAILS**

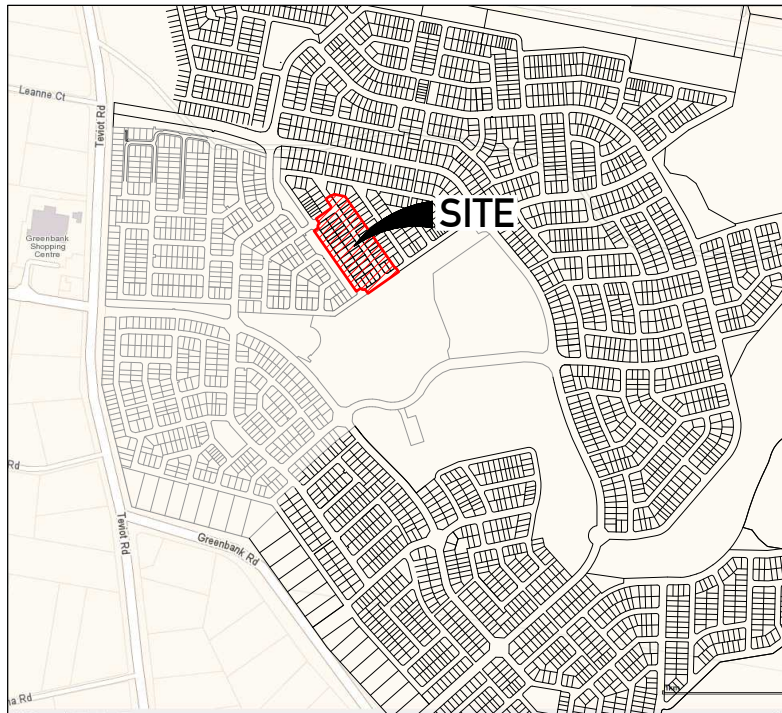
JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C530**  
REV  
**C**

# EVERLEIGH PRECINCT 9.4 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
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
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
08/11/2021	B	AMENDED LOCALITY PLAN	KK	PB
28/10/2021	A	ORIGINAL ISSUE	KK	PB



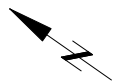
**BRISBANE OFFICE**  
LEVEL 11, 300 ADELAIDE STREET  
BRISBANE, QLD 4000  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112

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

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**WATER RETICULATION LOCALITY PLAN & NOTES**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C600**  
REV  
**C**

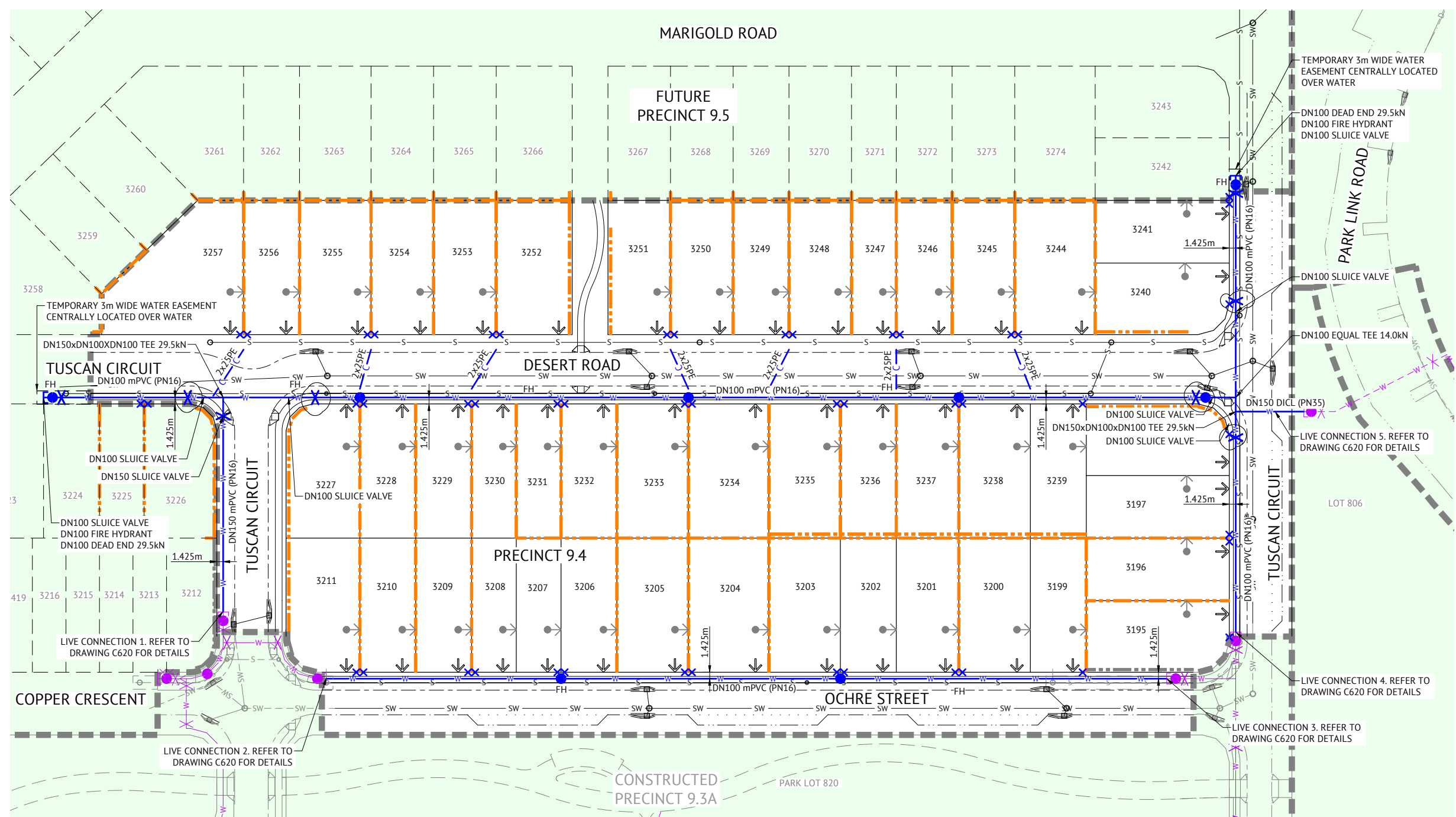


**LEGEND - PROPOSED**

- POTABLE WATERMAIN
- POTABLE WATER RETICULATION 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
- ELECTRICITY
- ZERO LOT BOUNDARY
- PREFERRED DRIVEWAY LOCATION (BY OTHERS)
- SITE BOUNDARY
- PROPOSED RETAINING WALL

**LEGEND - CONSTRUCTED**

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



**LAYOUT PLAN**  
SCALE 1:500

**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	REVISIONS
07/04/2022	C	ISSUED FOR CONSTRUCTION - MOVED WATER FITTINGS	KK PB
12/11/2021	B	MINOR DRAFTING UPDATES	VKH PB
28/10/2021	A	ORIGINAL ISSUE	VKH PB

**Premise**

**BRISBANE OFFICE**  
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 PH: (07) 3253 2222  
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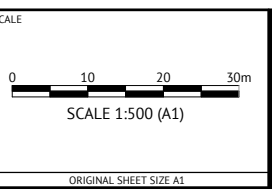
DESIGNED  
KLYNT KIWANG

CHECKED  
ANDREW LANGDON

PROJECT MANAGER  
SIMON STEINHOFER

PROJECT DIRECTOR  
PATRICK BRADY

RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

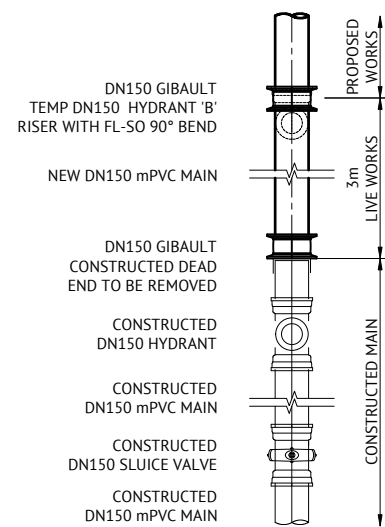
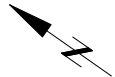
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

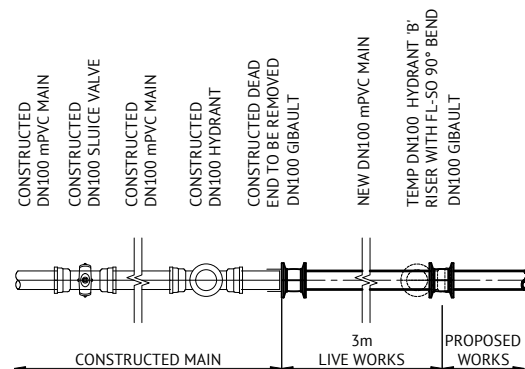
SHEET TITLE  
**WATER RETICULATION LAYOUT PLAN**

JOB CODE <b>MIR-0904</b>	
SHEET NUMBER <b>C610</b>	REV <b>C</b>

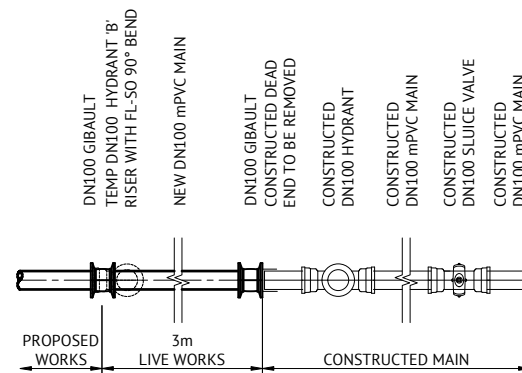




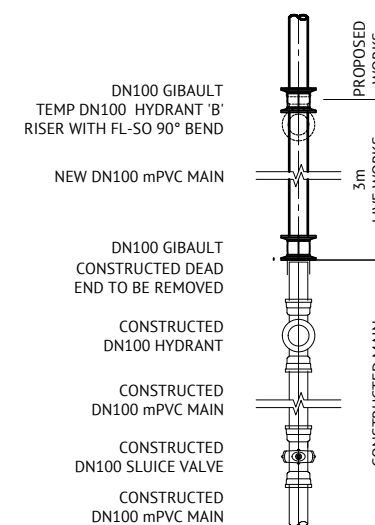
LIVE CONNECTION 1 DETAIL  
SCALE 1:25



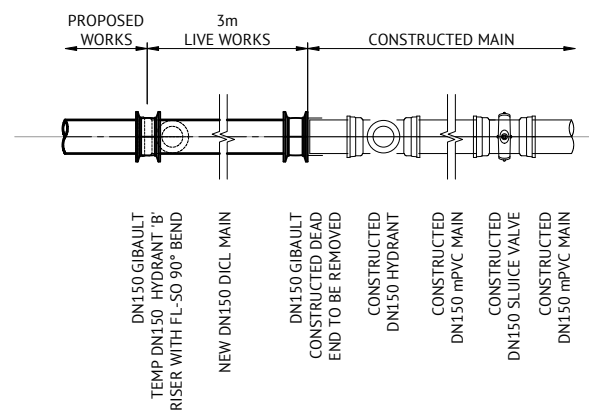
LIVE CONNECTION 2 DETAIL  
SCALE 1:25



LIVE CONNECTION 3 DETAIL  
SCALE 1:25



LIVE CONNECTION 4 DETAIL  
SCALE 1:25



LIVE CONNECTION 5 DETAIL  
SCALE 1:25

**LIVE CONNECTION NOTES:**

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

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

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
NAME OF SIGNATORY: \_\_\_\_\_  
RPEQ No. or LICENCE: \_\_\_\_\_  
COMPANY NAME: \_\_\_\_\_  
START DATE: \_\_\_\_\_

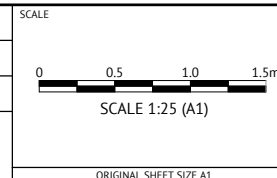
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	C	ISSUED FOR CONSTRUCTION	KK	PB
12/11/2021	B	UPDATED TITLES	VKH	PB
28/10/2021	A	ORIGINAL ISSUE	VKH	PB



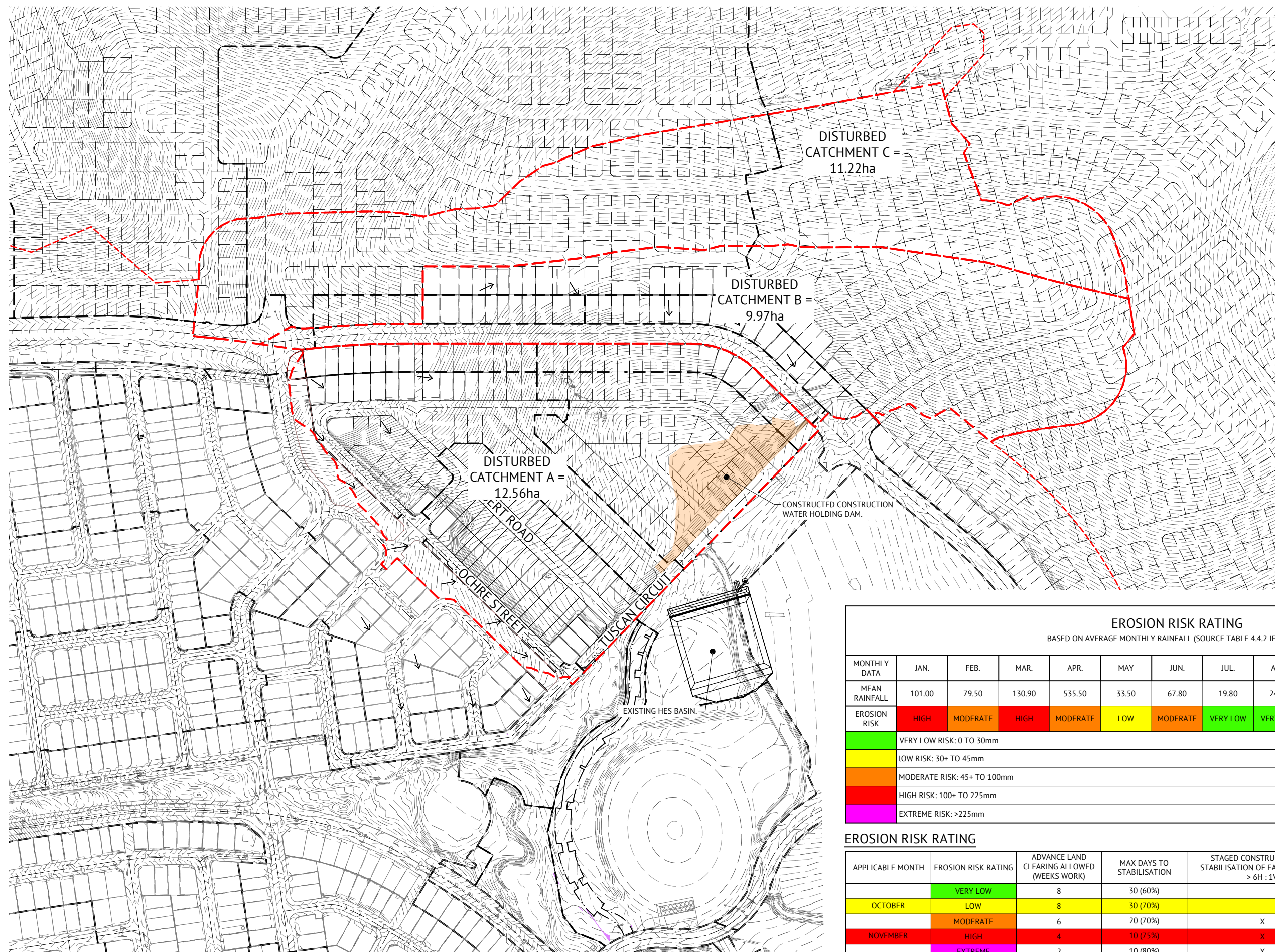
**BRISBANE OFFICE**  
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BRISBANE, QLD 4000  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
*PKB*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**WATER LIVE CONNECTION DETAILS**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C620**  
REV  
**C**



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

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

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

**EROSION RISK RATING**  
BASED ON AVERAGE MONTHLY RAINFALL (SOURCE TABLE 4.4.2 IECA 2008)

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

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

**EROSION RISK RATING**

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

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
12/11/2021	1	PRELIMINARY ISSUE	KK	PB

REVISIONS

**Premise**

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DESIGNED  
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CHECKED  
**ANDREW LANGDON**

PROJECT MANAGER  
**SIMON STEINHOFER**

PROJECT DIRECTOR  
*Patrick Brady*  
**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 9.4 SUBDIVISION DEVELOPMENT**

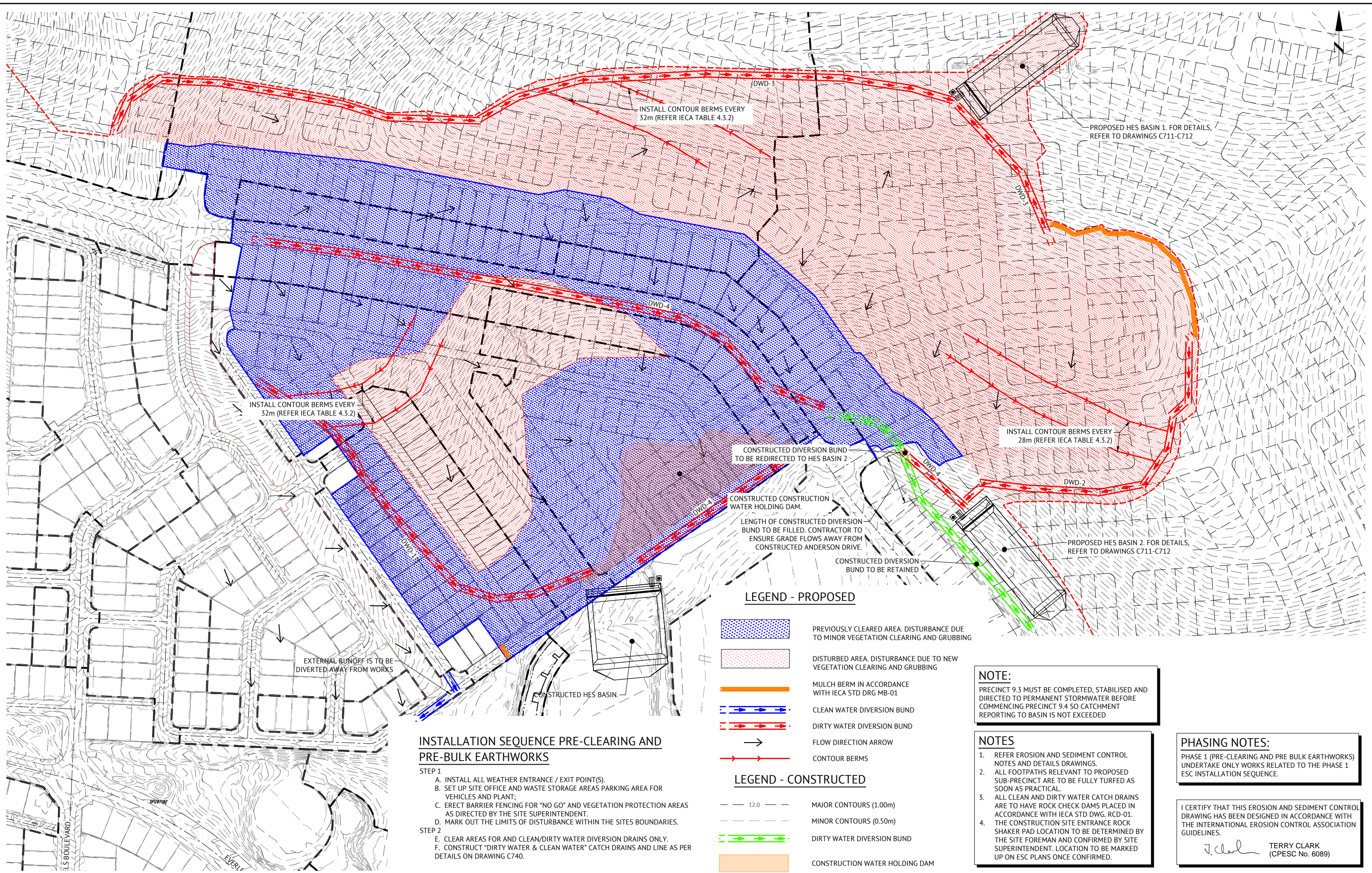
LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**OVERALL EROSION & SEDIMENT CONTROL KEY PLAN**

JOB CODE  
**MIR-0904**

SHEET NUMBER  
**C700**

REV  
**B**



INSTALL CONTOUR BERMS EVERY 32m (REFER IECA TABLE 4.3.2)

INSTALL CONTOUR BERMS EVERY 32m (REFER IECA TABLE 4.3.2)

INSTALL CONTOUR BERMS EVERY 28m (REFER IECA TABLE 4.3.2)

CONSTRUCTED DIVERSION BUND TO BE REDIRECTED TO HES BASIN 2

CONSTRUCTED CONSTRUCTION WATER HOLDING DAM.

LENGTH OF CONSTRUCTED DIVERSION BUND TO BE FILLED. CONTRACTOR TO ENSURE GRADE FLOWS AWAY FROM CONSTRUCTED ANDERSON DRIVE.

CONSTRUCTED DIVERSION BUND TO BE RETAINED

EXTERNAL RUNOFF IS TO BE DIVERTED AWAY FROM WORKS

CONSTRUCTED HES BASIN

PROPOSED HES BASIN 1. FOR DETAILS, REFER TO DRAWINGS C711-C712

PROPOSED HES BASIN 2. FOR DETAILS, REFER TO DRAWINGS C711-C712

**LEGEND - PROPOSED**

- PREVIOUSLY CLEARED AREA. DISTURBANCE DUE TO MINOR VEGETATION CLEARING AND GRUBBING
- DISTURBED AREA. DISTURBANCE DUE TO NEW VEGETATION CLEARING AND GRUBBING
- MULCH BERM IN ACCORDANCE WITH IECA STD DRG MB-01
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION BUND
- FLOW DIRECTION ARROW
- CONTOUR BERMS

**LEGEND - CONSTRUCTED**

- 12.0 MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- DIRTY WATER DIVERSION BUND
- CONSTRUCTION WATER HOLDING DAM

**NOTE:**  
PRECINCT 9.3 MUST BE COMPLETED, STABILISED AND DIRECTED TO PERMANENT STORMWATER BEFORE COMMENCING PRECINCT 9.4 SO CATCHMENT REPORTING TO BASIN IS NOT EXCEEDED

**NOTES**

- REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
- ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
- ALL CLEAN AND DIRTY WATER CATCH DRAINS ARE TO HAVE ROCK CHECK DAMS PLACED IN ACCORDANCE WITH IECA STD DWG. RCD-01.
- THE CONSTRUCTION SITE ENTRANCE ROCK SHAKER PAD LOCATION TO BE DETERMINED BY THE SITE FOREMAN AND CONFIRMED BY SITE SUPERINTENDENT. LOCATION TO BE MARKED UP ON ESC PLANS ONCE CONFIRMED.

**PHASING NOTES:**  
PHASE 1 (PRE-CLEARING AND PRE BULK EARTHWORKS) UNDERTAKE ONLY WORKS RELATED TO THE PHASE 1 ESC INSTALLATION SEQUENCE.

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

**INSTALLATION SEQUENCE PRE-CLEARING AND PRE-BULK EARTHWORKS**

- STEP 1**
- INSTALL ALL WEATHER ENTRANCE / EXIT POINT(S).
  - SET UP SITE OFFICE AND WASTE STORAGE AREAS PARKING AREA FOR VEHICLES AND PLANT;
  - ERECT BARRIER FENCING FOR "NO GO" AND VEGETATION PROTECTION AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.
  - MARK OUT THE LIMITS OF DISTURBANCE WITHIN THE SITES BOUNDARIES.
- STEP 2**
- CLEAR AREAS FOR AND CLEAN/DIRTY WATER DIVERSION DRAINS ONLY.
  - CONSTRUCT "DIRTY WATER & CLEAN WATER" CATCH DRAINS AND LINE AS PER DETAILS ON DRAWING C740.

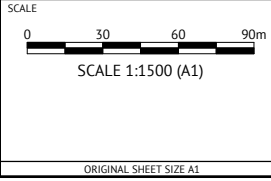
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CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

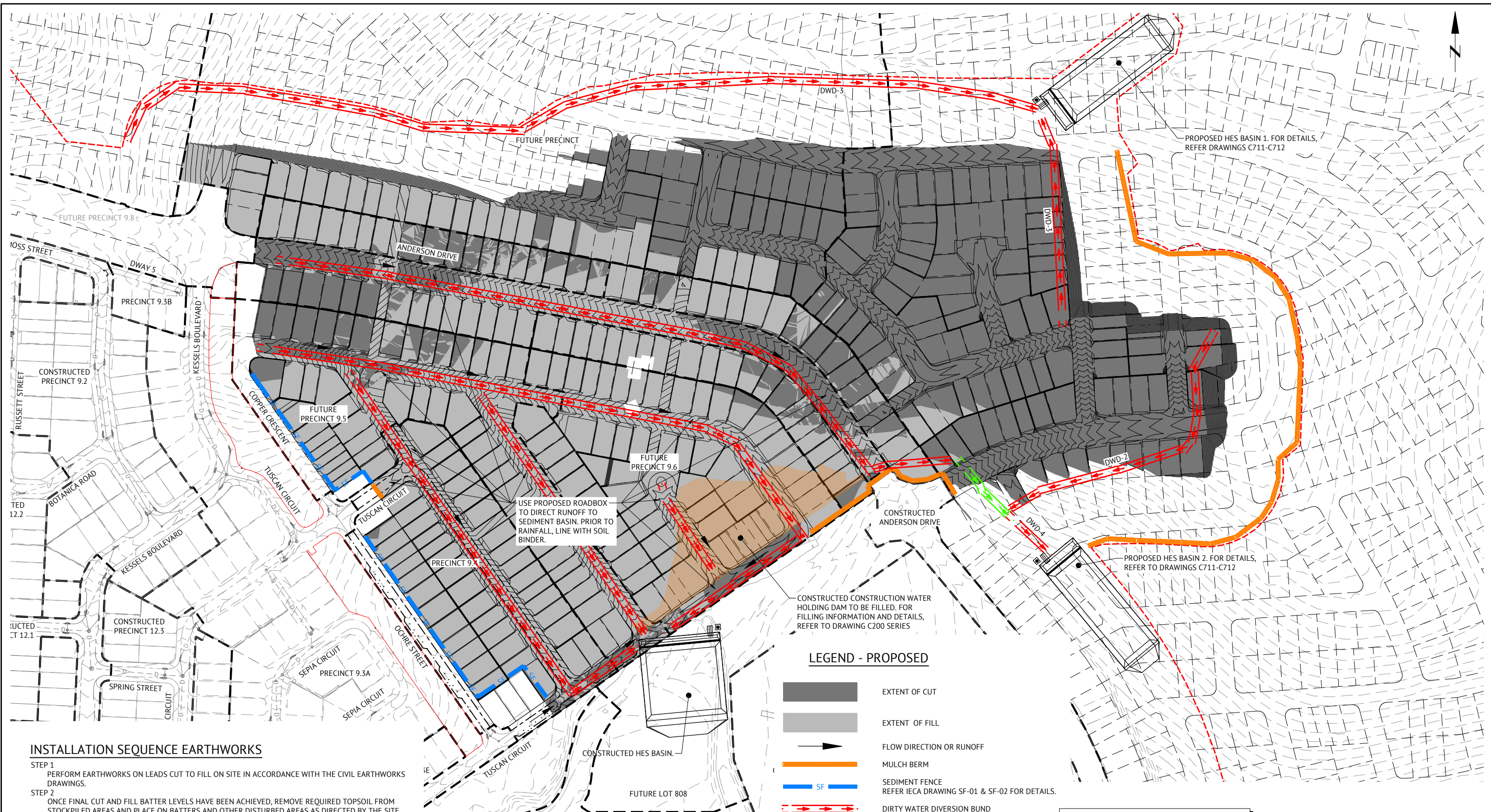
LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**EROSION AND SEDIMENT CONTROL - CLEAR AND GRUB PHASE**

JOB CODE  
**MIR-0904**

SHEET NUMBER  
**C701**

REV  
**B**



**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 C703) 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
- MULCH BERM
- SEDIMENT FENCE  
REFER IECA DRAWING SF-01 & SF-02 FOR DETAILS.
- DIRTY WATER DIVERSION BUND
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

**LEGEND - CONSTRUCTED**

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)

**NOTES**

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

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

*Terry Clark*  
TERRY CLARK  
(CPESC No. 6089)

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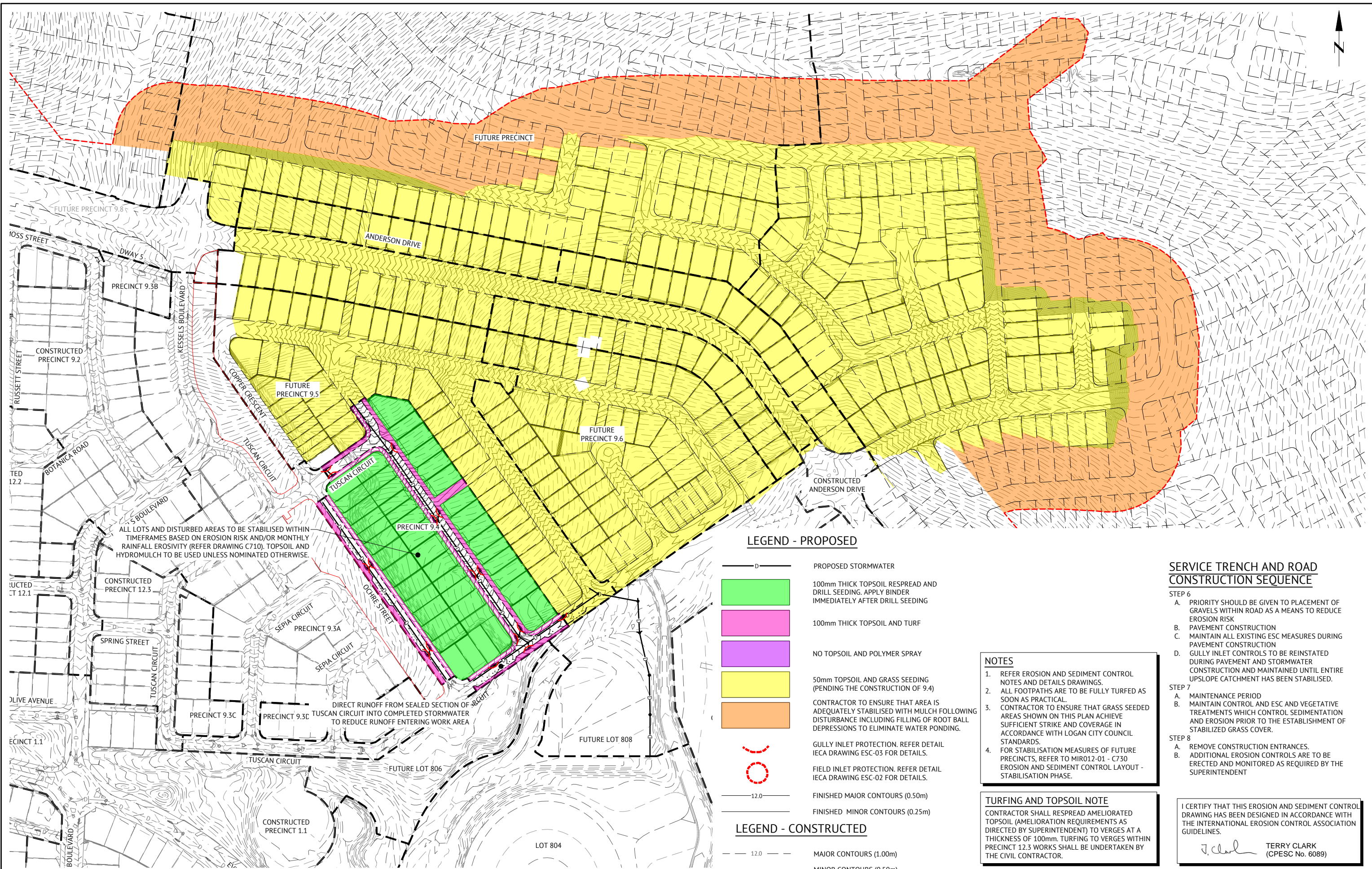
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RPEQ 7112

SCALE  
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LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE

JOB CODE  
MIR-0904  
SHEET NUMBER  
C702  
REV  
B



**LEGEND - PROPOSED**

- PROPOSED STORMWATER
- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING. APPLY BINDER IMMEDIATELY AFTER DRILL SEEDING
- 100mm THICK TOPSOIL AND TURF
- NO TOPSOIL AND POLYMER SPRAY
- 50mm TOPSOIL AND GRASS SEEDING (PENDING THE CONSTRUCTION OF 9.4)
- CONTRACTOR TO ENSURE THAT AREA IS ADEQUATELY STABILISED WITH MULCH FOLLOWING DISTURBANCE INCLUDING FILLING OF ROOT BALL DEPRESSIONS TO ELIMINATE WATER PONDING.
- 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)

**LEGEND - CONSTRUCTED**

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)

**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 MIR012-01 - C730 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE.

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

**SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE**

STEP 6

- PRIORITY SHOULD BE GIVEN TO PLACEMENT OF GRAVELS WITHIN ROAD AS A MEANS TO REDUCE EROSION RISK
- PAVEMENT CONSTRUCTION
- MAINTAIN ALL EXISTING ESC MEASURES DURING PAVEMENT CONSTRUCTION
- GULLY INLET CONTROLS TO BE REINSTATED DURING PAVEMENT AND STORMWATER CONSTRUCTION AND MAINTAINED UNTIL ENTIRE UPSLOPE CATCHMENT HAS BEEN STABILISED.

STEP 7

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

STEP 8

- REMOVE CONSTRUCTION ENTRANCES.
- ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

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

*Terry Clark* TERRY CLARK  
(CPESC No. 6089)

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LOCATION  
TEVIOT ROAD, GREENBANK

SHEET TITLE  
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE  
MIR-0904

SHEET NUMBER  
C703

REV  
B

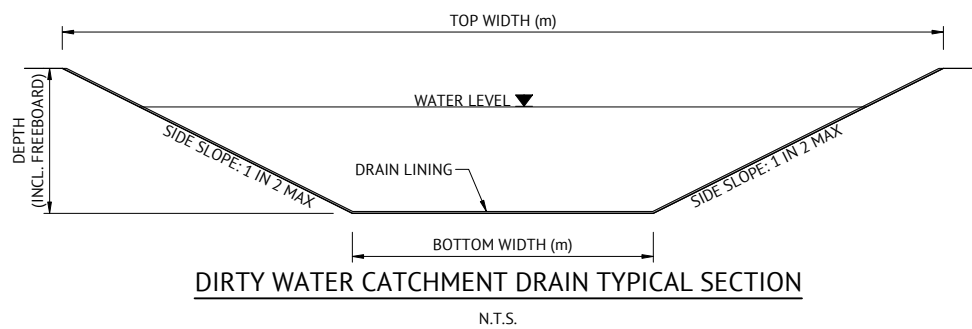
**EROSION & SEDIMENT CONTROL NOTES**

- 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.

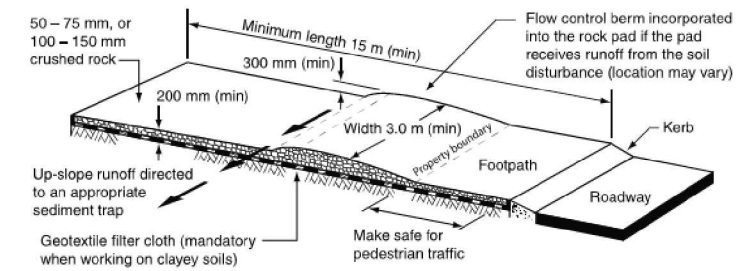
CATCH DRAIN SIZING	
$Q_y = (C_y \cdot I_{tc,y} \cdot A) / 360$ [Equation 1 (IECA 2008)]	
where:	
$Q_y$	PEAK FLOW RATE (m <sup>3</sup> /s) OF AVERAGE RECURRENCE INTERVAL (ARI) OF Y YEARS
$C_y$	RUNOFF COEFFICIENT (DIMENSIONLESS) FOR ARI OF Y YEARS
$I_{tc,y}$	AVERAGE RAINFALL INTENSITY (mm/hr) FOR DESIGN 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 <sup>3</sup> /s) OF AVERAGE RECURRENCE INTERVAL (ARI) OF Y YEARS
n	MANNING'S COEFFICIENT (UNITLESS)
A	CROSS SECTIONAL AREA OF FLOW (m <sup>2</sup> ), 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 <sup>2</sup> )
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



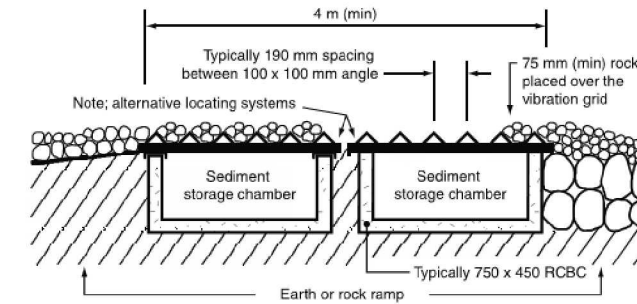
**DIRTY WATER CATCH DRAIN DETAILS**

DRAIN ID	SLOPE	LINING	BASE WIDTH (m)	TOP WIDTH (m)	DEPTH INCLUDING FREEBOARD (m)
DWD-01	4.50%	BLACK PLASTIC	2.000	3.350	0.330
DWD-02	5.20%	BLACK PLASTIC	2.000	3.050	0.260
DWD-03	8.20%	BLACK PLASTIC	2.000	3.100	0.280
DWD-04	3.20%	BLACK PLASTIC	2.000	3.070	0.270

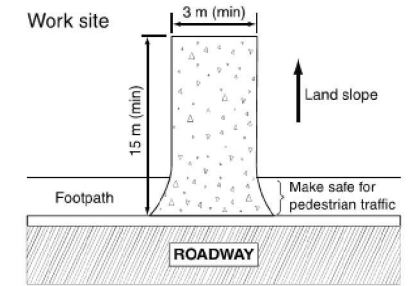
REFER TYPICAL SECTION ABOVE FOR DETAILS  
NOTE: CATCH DRAINS SIZED FOR Q2 FLOW



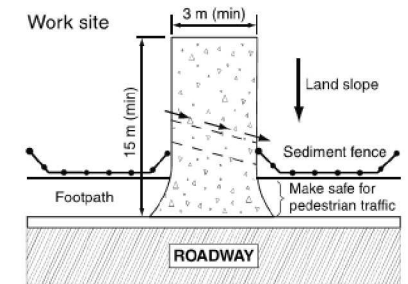
**(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)**



**(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**

**MATERIALS**

COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.

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

(ii) MAXIMUM OF 1% OF INERT MATERIAL.

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

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

**INSTALLATION**

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

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

(i) TOTALLY WITHIN THE PROPERTY BOUNDARIES;

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

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

(iv) AWAY FROM AREAS OF CONCENTRATED FLOW.

3. ENSURE THE BERM IS INSTALLED IN A MANNER THAT AVOIDS THE

CONCENTRATION OF FLOW ALONG THE BERM, OR THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE BERM.

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

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

6. ENSURE 100% CONTACT WITH THE SOIL SURFACE.

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

**MAINTENANCE**

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

2. REPAIR OR REPLACE ANY DAMAGED SECTIONS.

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

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

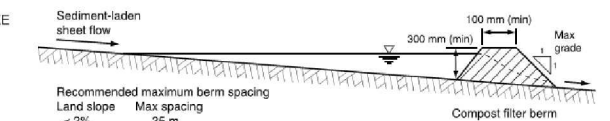
5. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

**REMOVAL (IF REQUIRED)**

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

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

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



**Figure 1 - Typical profile of a compost filter berm**

**MULCH BUND DETAIL**

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

TERRY CLARK  
(CPESC No. 6089)

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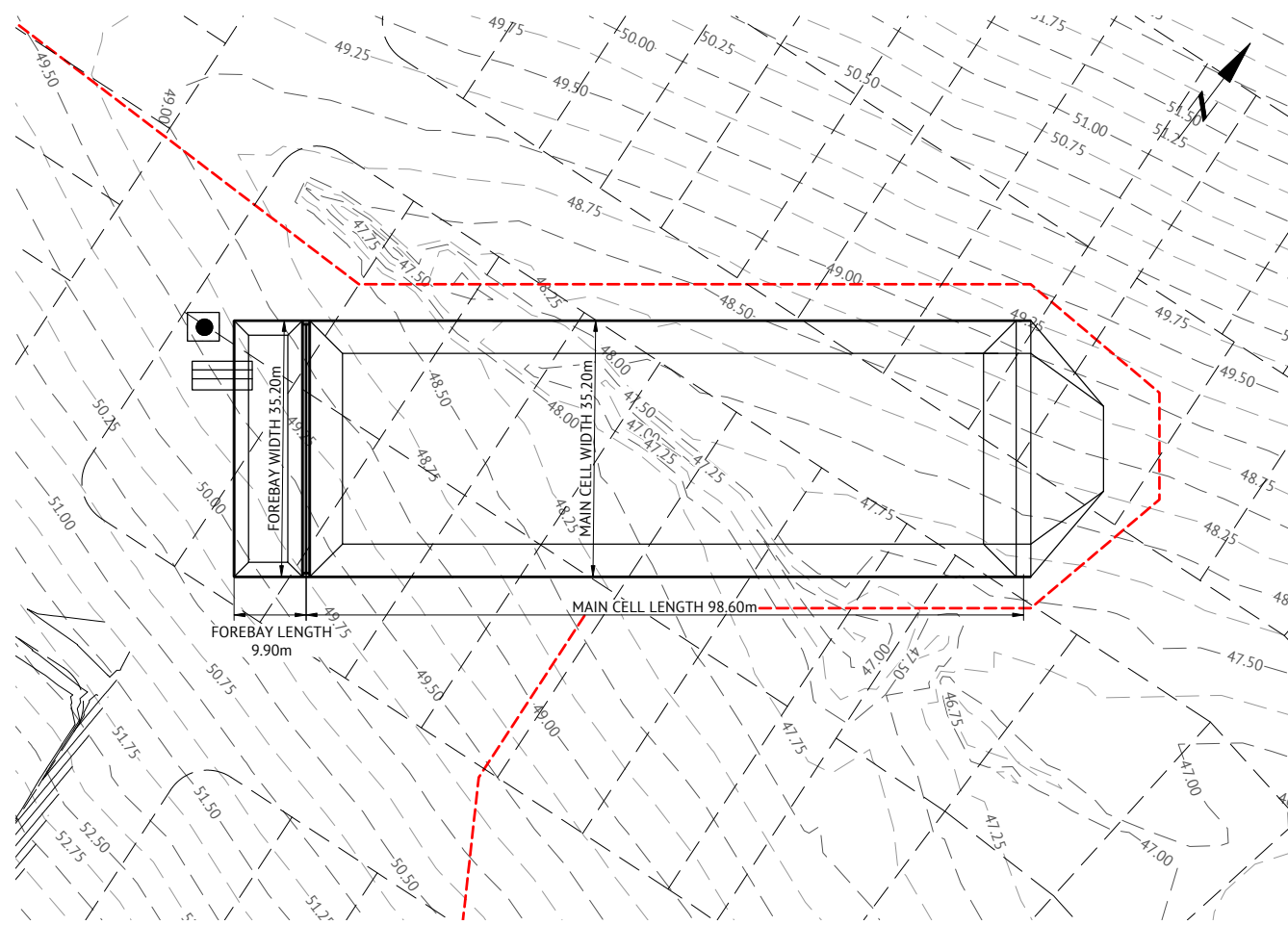
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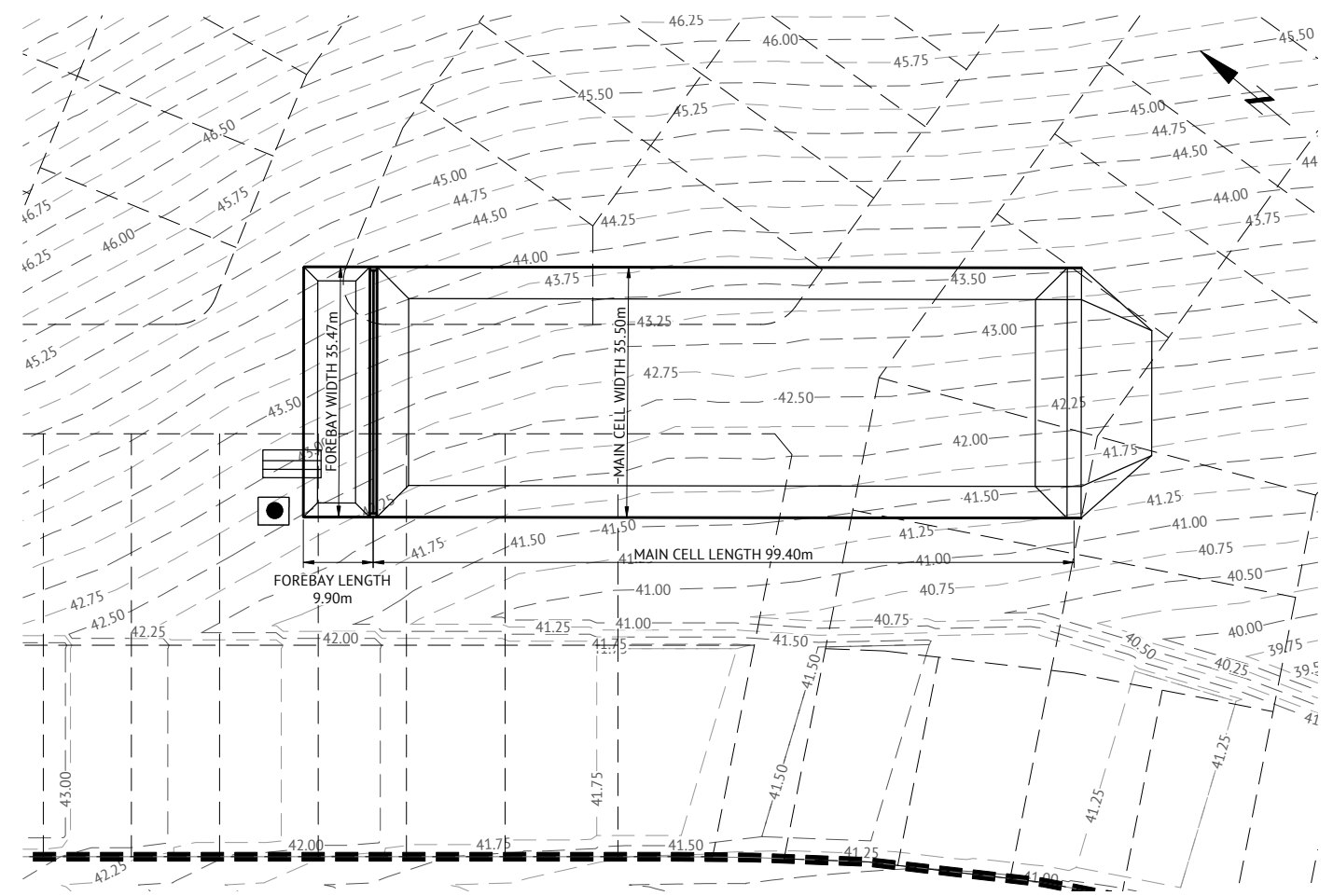
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HES BASIN 1



HES BASIN 2

HES BASIN DETAILS

BASIN ID	SETTLING ZONE (INCLUDING SEDIMENT STORAGE)				FOREBAY				HYDRAULIC CONTROLS			
	VOLUME	LENGTH	WIDTH	DEPTH	VOLUME	LENGTH	WIDTH	DEPTH	SPILLWAY CREST WIDTH	SPILLWAY CREST	EMBANKMENT	LEVEL SPREADER CREST
	(m <sup>3</sup> )	(m)	(m)	(m)	(m <sup>3</sup> )	(m)	(m)	(m)	(m)	RL	RL	RL
HES BASIN 1	7832.8800	98.600*	35.200*	1.000*	429.0000	9.900*	35.200*	1.000*	15.0000	49.550*	50.200*	49.750*
HES BASIN 2	7832.8800	99.400*	35.500*	1.000*	429.0000	9.900*	35.500*	1.000*	15.0000	43.300*	43.800*	43.500*
EXISTING	5233.0000	65.000*	66.000*	1.500*	429.0000	6.500*	66.000*	1.000*	15.0000	44.150*	45.050*	44.450*

\* - EXACT DIMENSIONS TO BE MODIFIED ON SITE TO FIT AVAILABLE SITE CONSTRAINTS.  
 \* - ESTIMATE RL TO BE FINALISED ON-SITE BASED ON SITE CONSTRAINTS

NOTE: SEDIMENT BASIN SIZED BASED ON A SETTLEMENT RATE OF 150mm IN 15 MINUTES DUE TO THE TIME CONSTRAINTS, NO JAR TESTS HAVE BEEN UNDERTAKEN, SETTLEMENT RATE IS TO BE VERIFIED PRIOR TO CONSTRUCTION OF SEDIMENT BASINS

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

*Terry Clark*  
 TERRY CLARK  
 (CPESC No. 6089)

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK PB
26/11/2021	A	ORIGINAL ISSUE	KK PB
12/11/2021	1	PRELIMINARY ISSUE	KK PB

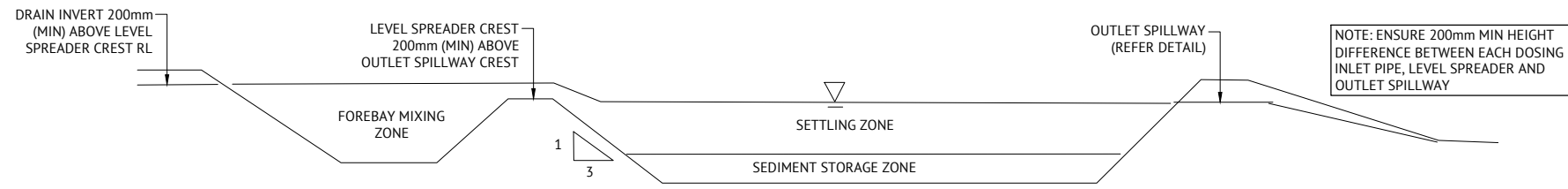
**Premise**  
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 KLYNT KIWANG  
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 ANDREW LANGDON  
 PROJECT MANAGER  
 SIMON STEINHOFER  
 PROJECT DIRECTOR  
 PATRICK BRADY  
 RPEQ 7112

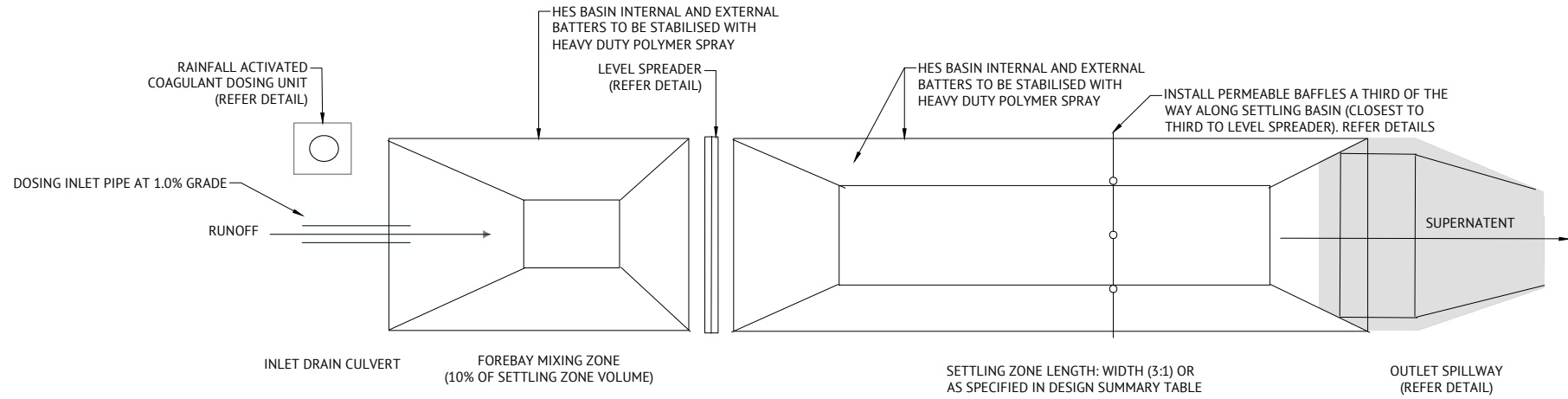
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 0 10 20 30m  
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 ORIGINAL SHEET SIZE A1

CLIENT  
 MIRVAC QLD PTY LTD  
 PROJECT  
 EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT  
 LOCATION  
 TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
 EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2

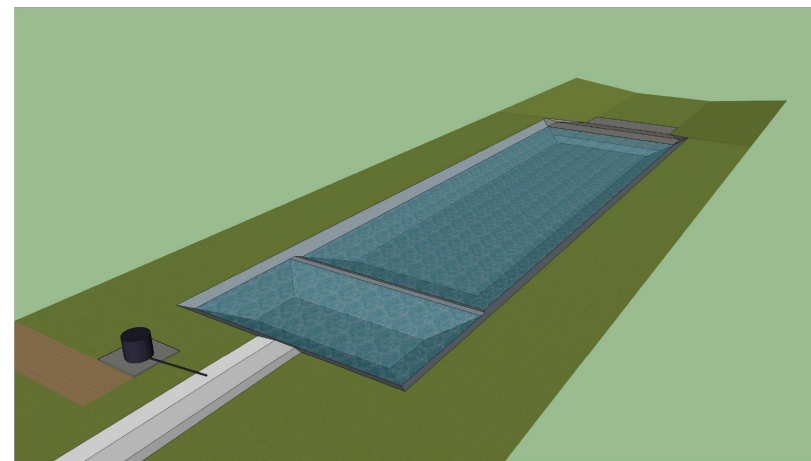
JOB CODE  
 MIR-0904  
 SHEET NUMBER  
 C711  
 REV  
 B



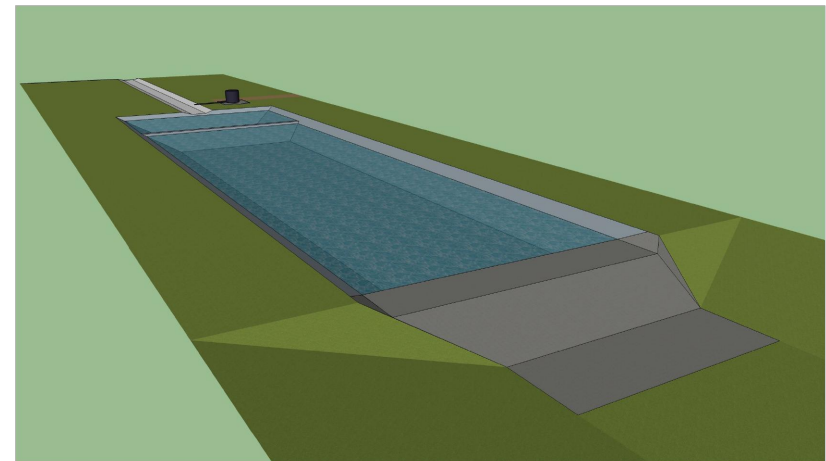
**TYPE B SEDIMENT BASIN LONG SECTION**  
N.T.S.



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



**BASIN PERSPECTIVE (LOOKING DOWNSTREAM)**



**BASIN PERSPECTIVE (LOOKING UPSTREAM)**



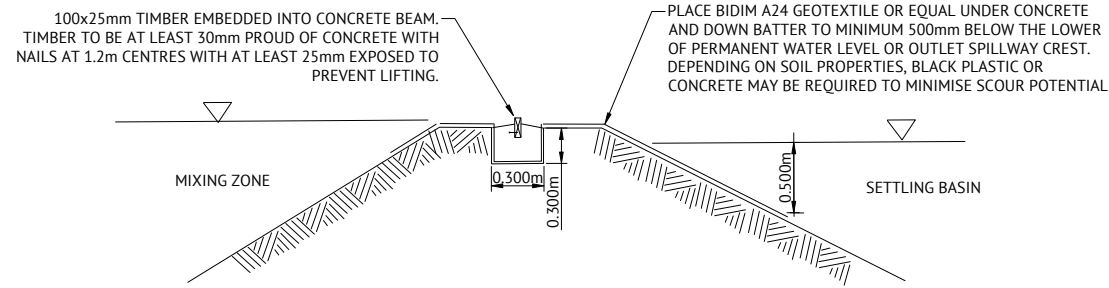
**iFOD FLOW DOSING UNIT (CUSTOM BUILT)**

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

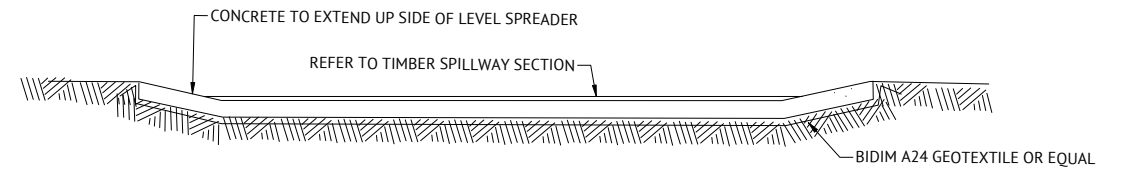
*Terry Clark*  
TERRY CLARK  
(CPESC No. 6089)

<b>FOR CONSTRUCTION</b>				<p><b>BRISBANE OFFICE</b> LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	DESIGNED KLYNT KIWANG CHECKED ANDREW LANGDON PROJECT MANAGER SIMON STEINHOFER PROJECT DIRECTOR 	SCALE	CLIENT <b>MIRVAC QLD PTY LTD</b>	JOB CODE <b>MIR-0904</b>
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK		PB	PROJECT <b>EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT</b>	LOCATION <b>TEVIOT ROAD, GREENBANK</b>	SHEET NUMBER <b>C712</b>
26/11/2021	A	ORIGINAL ISSUE	KK	PB	PROJECT TITLE <b>EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 3</b>			
12/11/2021	1	PRELIMINARY ISSUE	KK	PB				
DATE	REV	DESCRIPTION	REC	APP	PATRICK BRADY	RPEQ 7112	ORIGINAL SHEET SIZE A1	

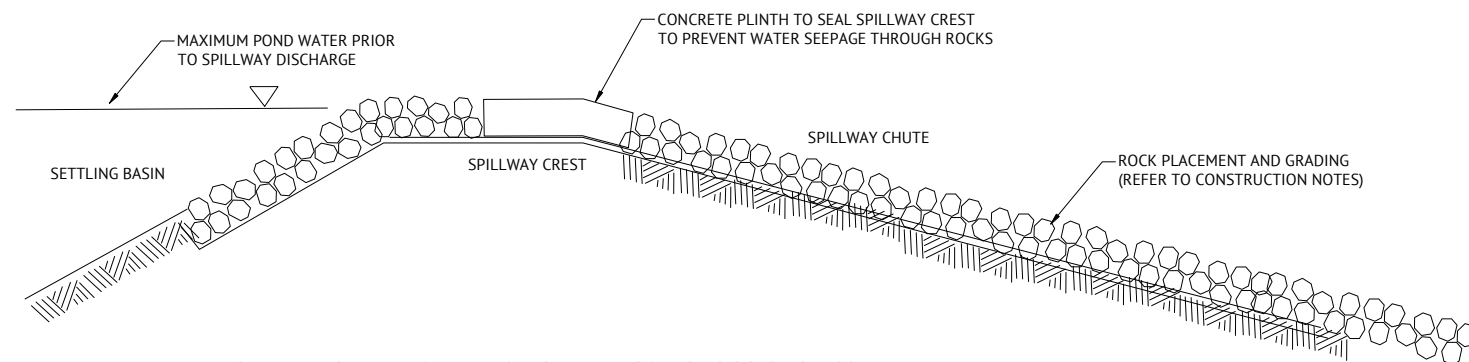




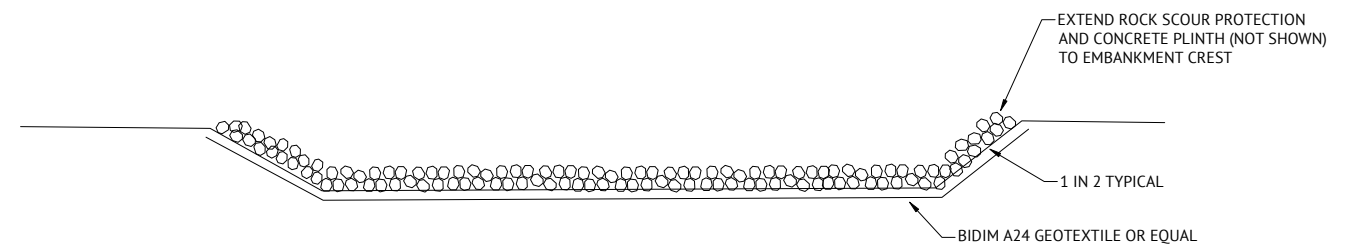
**LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION**  
N.T.S.



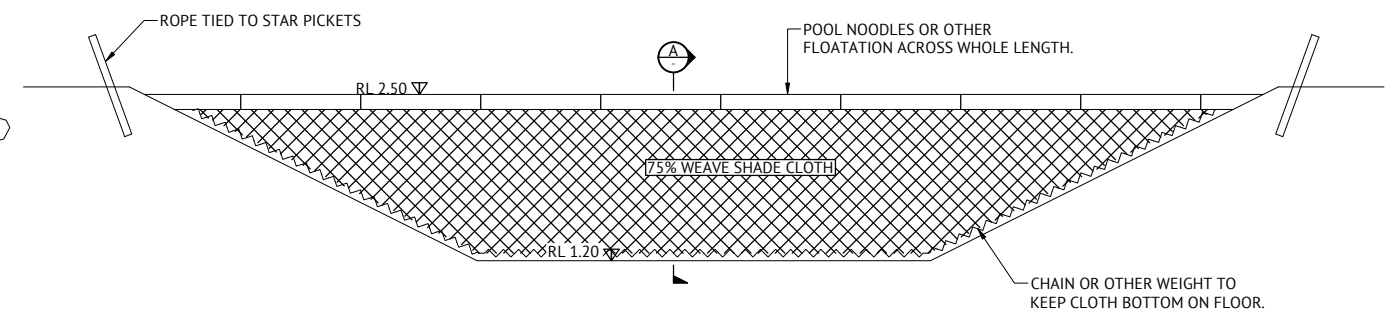
**LEVEL SPREADER DETAILS - TYPICAL LONG SECTION**  
N.T.S.



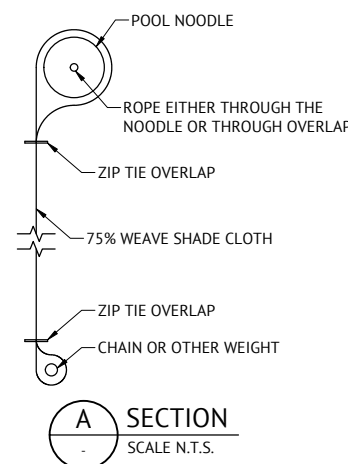
**OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION**  
N.T.S.



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



**PERMEABLE BAFFLE SECTION**  
N.T.S.



**A SECTION**  
SCALE N.T.S.

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

*Terry Clark*  
TERRY CLARK  
(CPESC No. 6089)

**FOR CONSTRUCTION**

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SCALE  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 4**

JOB CODE  
**MIR-0904**  
SHEET NUMBER  
**C713**  
REV  
**B**

## NOTES

### AUTO DOSER

- PROVIDED AS EITHER FLOC BOX OR IFOD-RAIN TO MANUFACTURES SPECIFICATION.
- DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4m x 4m WITHIN 10m OF DOSING POINT.
- ALL-WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
- FLOCCULANT PROVIDED AS TURBICLEAR (ahc). IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW).

JAR SETTLEMENT AFTER 15 MINUTES	MULTIPLICATION FACTOR TO SETTLING ZONE
(mm)	VOLUME
50	x3
75	x2
100	x1.5
150	x1

## BASIN CONSTRUCTION

### MATERIALS

- EARTH FILL: CLEAN SOIL WITH EMERSON CLASS 2(1), 3, 4 OR 5 AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. SOIL WITH EMERSON CLASS 4 AND 5 MAY NOT BE SUITABLE DEPENDING ON PARTICLE SIZE DISTRIBUTION AND DEGREE OF DISPERSION.
  - CLASS 2(1) SHOULD ONLY BE USED UPON RECOMMENDATION FROM GEOTECHNICAL SPECIALIST.
- SPILLWAY ROCK: HARD, ANGULAR, DURABLE WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (d50) ROCK SIZE. LARGE ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIED GRAVITY SHOULD BE AT LEAST 2.5.
- GEOTEXTILE FABRIC: HEAVY DUTY, NEEDLE-PUNCHED, NON-WOVEN CLOTH, MINIMUM 'BIDIM' A24 OR EQUIVALENT.

### CONSTRUCTION

- NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITH APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF THE MATERIALS TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLANT REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKELY MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
- REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE ANY QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE SEDIMENT BASIN ONCE WORKS BEGIN.
- INSTALL REQUIRES SHORT TERM SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
- THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF EACH FOR A DISTANCE NOT EXCEEDING 5m ALL AROUND MUST BE CLEARED OF ALL TREES, SCRUB, STUMPS, ROOTS, DEAD TIMBER AND RUBBISH AND DISPOSED OF IN A SUITABLE MANNER. DELAY CLEARING THE MAIN BASIN AREA UNTIL THE EMBANKMENT IS COMPLETE.
- ENSURE ALL HOLES MADE BY GRUBBING WITHIN THE EMBANKMENT FOOTPRINT ARE FILLED WITH SOUND MATERIAL, ADEQUATELY COMPACTED, AND FINISHED FLUSH WITH THE NATURAL SURFACE.

### EMBANKMENT

- SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING THE FILL.
- ENSURE ALL FILL MATERIAL USED TO FORM THE EMBANKMENT MEETS THE SPECIFICATIONS CERTIFIED BY A SOIL SCIENTIST OF GEOTECHNICAL SPECIALIST.
- THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 150mm TO 200mm CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND THEN COMPACT BEFORE PLACEMENT OF FURTHER FILL.
- UNLESS SPECIFIED ON THE APPROVED PLANS, COMPACT THE SOIL AT ABOUT % TO 2% WET OPTIMUM AND TO 95% MODIFIED OR 100% STANDARD COMPACTION. EMBANKMENT TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING.
- WHERE BOTH DISPERSIVE AND NON-DISPERSIVE CLASSIFIED EARTH-FILL MATERIALS ARE AVAILABLE, NON-DISPERSIVE EARTH-FILL MUST BE USED IN THE CORE ZONE. THE REMAINING CLASSIFIED EARTH-FILL MATERIALS MUST ONLY BE USED AS DIRECTED BY THE SITE SUPERINTENDENT.
- WHERE SPECIFIED, CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING; OTHERWISE FINISHED DIMENSION OF THE EMBANKMENT AFTER SPREADING OF TOPSOIL MUST CONFORM TO THE DRAWING WITH A TOLERANCE OF 75mm FROM SPECIFIED DIMENSIONS.
- ENSURE DEBRIS AND OTHER UNSUITABLE BUILDING WASTE IS NOT PLACED WITHIN THE EARTH EMBANKMENT.
- AFTER COMPLETION OF THE EMBANKMENT, ALL LOOSE UNCOMPACTED EARTH-FILL MATERIAL ON THE UPSTREAM AND DOWNSTREAM BATTER MUST BE REMOVED PRIOR TO SPREADING TOPSOIL.
- TOPSOIL AND RE-VEGETATE/STABILISE ALL EXPOSED EARTH AS DIRECTED WITHIN THE APPROVED PLANS.

### CUT-OFF TRENCH

- BEFORE CONSTRUCTION OF THE CUT-OFF TRENCH OR ANY ANCILLARY WORKS WITHIN THE EMBANKMENT FOOTPRINT, ALL GRASS GROWTH AND TOPSOIL MUST BE REMOVED FROM THE AREA TO BE OCCUPIED BY THE EMBANKMENT AND MUST BE DEPOSITED CLEAR OF THIS AREA AND RESERVED FOR TOPDRESSING THE COMPLETED EMBANKMENT.
- EXCAVATED A CUT-OFF TRENCH ALONG THE CENTRE LINE OF THE EARTH FILL EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 600mm DEEP. THE CUT-OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE OUTLET SPILLWAY CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF THE EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 600mm. MAKE THE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1:1 (H:V).
- ENSURE ALL WATER, LOOSE SOIL, AND ROCK ARE REMOVED FROM THE TRENCH BEFORE BACKFILLING COMMENCES. THE CUT-OFF TRENCH MUST BE BACKFILLED WITH SELECT EARTH-FILL OF THE TYPE SPECIFIED FOR THE EMBANKMENT, AND THIS SOIL MUST HAVE A MOISTURE CONTENT AND DEGREE OF COMPACTION THE SAME AS SPECIFIED FOR THE CORE ZONE.
- MATERIAL EXCAVATED FROM THE CUT-OFF TRENCH MAY BE USED IN THE CONSTRUCTION OF THE EMBANKMENT PROVIDED IT IS SUITABLE AND IT IS PLACED IN THE CORRECT ZONE ACCORDING TO ITS CLASSIFICATION.

### SPILLWAY CONSTRUCTION

- THE SPILLWAY MUST BE EXCAVATED AS SHOWN ON THE PLANS, AND THE EXCAVATED MATERIAL IF CLASSIFIED AS SUITABLE, MUST BE USED IN THE EMBANKMENT, AND IF NOT SUITABLE IT MUST BE DISPOSED OF INTO SPOIL HEAPS.
- ENSURE EXCAVATED DIMENSIONS ALLOW ADEQUATE BOXING-OUT SUCH THAT THE SPECIFIED ELEVATIONS, GRADES, CHUTE WIDTH, AND ENTRANCE AND EXIT SLOPES FOR THE EMERGENCY SPILLWAY WILL BE ACHIEVED AFTER PLACEMENT OF THE ROCK OR OTHER SCOUR PROTECTION MEASURES AS SPECIFIED IN THE PLANS.
- PLACE SPECIFIED SCOUR PROTECTION MEASURES ON THE EMERGENCY SPILLWAY. ENSURE THE FINISHED GRADE BLENDS WITH THE SURROUNDING AREA TO ALLOW A SMOOTH FLOW TRANSITION FROM SPILLWAY TO DOWNSTREAM CHANNEL.
- IF A SYNTHETIC FILTER FABRIC UNDERLAY IS SPECIFIED, PLACE THE FABRIC DIRECTLY ON THE PREPARED FOUNDATION. IF MORE THAN 1 SHEET OF FILTER FABRIC IS REQUIRED, OVERLAP THE EDGES BY AT LEAST 300mm AND PLACE ANCHOR PINS AT MINIMUM 1m SPACING ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE FILTER FABRIC A MINIMUM 300mm BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE FABRIC OR OVERLAP A MINIMUM 300mm OVER THE NEXT DOWNSTREAM SECTION AS REQUIRED. ENSURE THE FILTER FABRIC EXTENDS AT LEAST 1m UPSTREAM OF THE SPILLWAY CREST.
- TAKE CARE NOT TO DAMAGE THE FABRIC DURING OR AFTER PLACEMENT. IF DAMAGE OCCURS, REMOVE THE ROCK AND REPAIR THE SHEET BY ADDING ANOTHER LAYER OF FABRIC WITH A MINIMUM OVERLAP OF 300mm AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND REPLACE THE ENTIRE SHEET.
- WHERE LARGE ROCK IS USED, OR MACHINE PLACEMENT IS DIFFICULT, A MINIMUM 100mm LAYER OF FINE GRAVEL, AGGREGATE, OR SAND MAY BE NEEDED TO PROTECT THE FABRIC.
- PLACEMENT OF ROCK SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER FABRIC. PLACE ROCK SO THAT IT FORMS A DENSE, WELL GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF ROCK THROUGHOUT THE MASS MAYBE OBTAINED BY SELECTIVE LOADING AT THE QUARRY AND CONTROLLED DUMPING DURING FINAL PLACEMENT.
- THE FINISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF ROCK SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE ROCK SHOULD BLEND WITH THE SURROUNDING AREA. NO OVERFALL OF PROTRUSION OF ROCK SHOULD BE APPARENT.
- ENSURE THAT THE FINAL ARRANGEMENT OF THE SPILLWAY CREST WILL NOT PROMOTE EXCESSIVE FLOW THROUGH THE ROCK SUCH THAT THE WATER CAN BE RETAINED WITHIN THE SETTLING BASIN AT THE ELEVATION NO LESS THAN 50mm ABOVE OR BELOW THE NOMINATED SPILLWAY CREST ELEVATION.

### ESTABLISHING THE SETTLING POND

- THE AREA TO BE COVERED BY THE STORED WATER OUTSIDE OF THE LIMITS OF THE BORROW PITS MUST BE CLEARED RUBBISH. TREES MUST BE CUT DOWN STUMP HIGH AND REMOVED FROM THE IMMEDIATE VICINITY OF THE WORK.
- ESTABLISH ALL REQUIRED INFLOW CHUTES AND INLET BAFFLES, IF SPECIFIED, TO ENABLE WATER TO DISCHARGE INTO THE BASIN IN A MANNER THAT WILL NOT CAUSE SOIL EROSION OR THE RE-SUSPENSION OF SETTLED SEDIMENT.
- INSTALL A SEDIMENT STORAGE LEVEL MARKER POST WITH A CROSS MEMBER SET JUST BELOW THE TOP OF THE SEDIMENT STORAGE ZONE (AS SPECIFIED ON THE APPROVED PLANS). USE AT LEAST A 75mm WIDE POST FIRMLY SET INTO THE BASIN FLOOR.
- IF SPECIFIED, INSTALL INTERNAL SETTLING POND BAFFLES. ENSURE THE CREST OF THESE BAFFLES IS SET LEVEL WITH, OR JUST BELOW, THE ELEVATION OF THE EMERGENCY SPILLWAY.
- INSTALL ALL APPROPRIATE MEASURES TO MINIMISE SAFETY RISK TO ON-SITE PERSONNEL AND THE PUBLIC CAUSED BY THE PRESENCE OF THE SETTLING POND. AVOID STEEP, SMOOTH INTERNAL SLOPES. APPROPRIATELY FENCE THE SETTLING POND AND POST WARNING SIGNS IF UNSUPERVISED PUBLIC ACCESS IS LIKELY OR THERE IS CONSIDERED TO BE AN UNACCEPTABLE RISK TO THE PUBLIC.

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

 TERRY CLARK  
(CPESC No. 6089)

## FOR CONSTRUCTION



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RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 5

JOB CODE

MIR-0904

SHEET NUMBER

C714

REV

B

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
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12/11/2021	1	PRELIMINARY ISSUE	KK	PB

REVISIONS

## ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	<ul style="list-style-type: none"> <li>• OVERALL RESPONSIBILITY OF ESC IMPLEMENTATION</li> <li>• NOTIFY THE ENVIRONMENTAL MANAGER IMMEDIATELY OF ANY NON-COMPLIANCE WITH ESCP</li> <li>• ENSURE THE PROMPT IMPLEMENTATION OF MEASURES TO MITIGATE EROSION AND SEDIMENT GENERATION</li> </ul>
SITE SUPERVISOR / FOREMEN	<ul style="list-style-type: none"> <li>• MONITOR DAILY RAINFALL</li> <li>• NOTIFY ENVIRONMENTAL ADVISOR/CONSULTANT WHEN RUNOFF GENERATING RAINFALL OCCURS IN THE PREVIOUS 24 HOURS</li> <li>• MAINTAIN CURRENT RECORDS OF RAINFALL, STORAGE VOLUMES, WATER QUALITY, TREATMENT PRACTICES, DISCHARGE VOLUMES (AS APPROPRIATE)</li> <li>• INSTALLATION AND MAINTENANCE OF ESC</li> </ul>
ENVIRONMENTAL MANAGER	<ul style="list-style-type: none"> <li>• PROVIDE DESIGN INFORMATION AS REQUIRED</li> <li>• CONDUCT IN-SITU MONITORING (AS REQUIRED)</li> <li>• COLLECT AND SUBMIT SAMPLES TO LABORATORY (AS REQUIRED)</li> <li>• COLLATE RESULTS AND PREPARE REPORTS (AS REQUIRED)</li> <li>• CONDUCT SITE INSPECTIONS AND AUDITS (AS REQUIRED)</li> <li>• INSPECT ESC INSTALLATION AND MAINTENANCE</li> <li>• INSPECT OFFSITE IMPACTS AND MANAGEMENT</li> <li>• PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)</li> </ul>
ALL PERSONNEL	<ul style="list-style-type: none"> <li>• 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</li> </ul>

## 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.

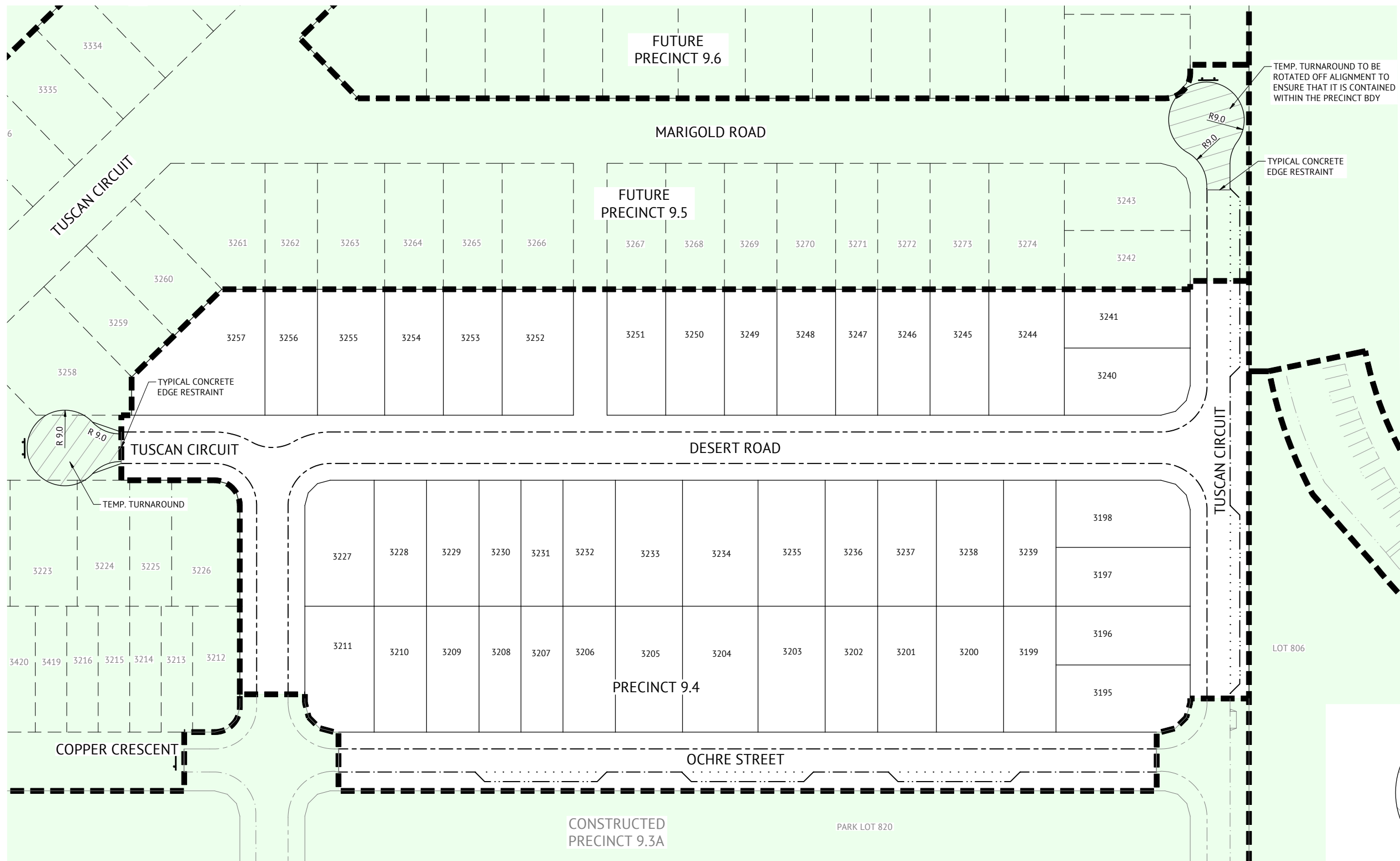
BEST PRACTICE SITE MANAGEMENT REQUIRES ALL ESC MEASURES TO BE INSPECTED BY THE CONTRACTORS NOMINATED REPRESENTATIVE AT LEAST DAILY WHEN RAIN IS OCCURRING, WITHIN 24 HOURS PRIOR TO EXPECTED RAINFALL, AND WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE ONSITE RUNOFF (IECA,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

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

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

FOR CONSTRUCTION				<p><b>BRISBANE OFFICE</b> LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	DESIGNED <b>KLYNT KIWANG</b>	SCALE	CLIENT <b>MIRVAC QLD PTY LTD</b>		JOB CODE
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK		PB		CHECKED <b>ANDREW LANGDON</b>	PROJECT	EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT
26/11/2021	A	ORIGINAL ISSUE	KK	PB	PROJECT MANAGER <b>SIMON STEINHOFER</b>	LOCATION	TEVIOT ROAD, GREENBANK		SHEET NUMBER
12/11/2021	1	PRELIMINARY ISSUE	KK	PB	PROJECT DIRECTOR <i>Patrick Brady</i>	SHEET TITLE	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 6		REV
DATE	REV	DESCRIPTION	REC	APP	PATRICK BRADY RPEQ 7112	ORIGINAL SHEET SIZE A1		C715	B



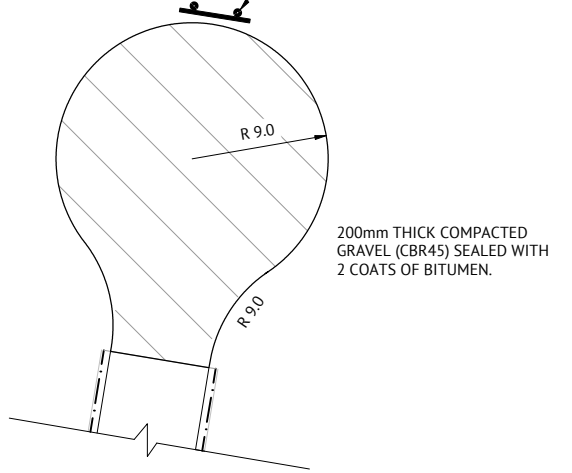
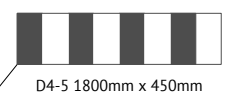
**LEGEND**

— LOT BOUNDARIES

- - - STAGE BOUNDARIES

**NOTE**

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



**TYPICAL TEMPORARY TURN AROUND DETAIL**  
SCALE: 1:250

**LAYOUT PLAN**  
SCALE 1:500

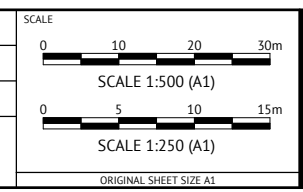
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
07/04/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
26/11/2021	A	ORIGINAL ISSUE	KK	PB
12/11/2021	2	90% REVIEW ISSUE	KK	PB
28/10/2021	1	PRELIMINARY ISSUE	VKH	PB



**BRISBANE OFFICE**  
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BRISBANE, QLD 4000  
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WEB: www.premise.com.au

DESIGNED  
**KLYNT KIWANG**  
CHECKED  
**ANDREW LANGDON**  
PROJECT MANAGER  
**SIMON STEINHOFER**  
PROJECT DIRECTOR  
*PKB*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**TEMPORARY WORKS - ROADWORKS AND DRAINAGE**

JOB CODE  
**MIR-0904**

SHEET NUMBER  
**C900**

REV  
**B**