

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C001	COVER SHEET LOCALITY PLAN & DRAWING SCHEDULE
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN PLAN
C100	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2
C101	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2
C200	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2
C201	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2
C202	EARTHWORKS NOTES AND DETAILS
C203	EARTHWORKS SECTIONS
C204	EARTHWORKS SUBGRADE PREPARATION DETAILS - SHEET 1 OF 2
C205	EARTHWORKS SUBGRADE PREPARATION DETAILS - SHEET 2 OF 2
C300	ROADWORKS TYPICAL SECTIONS & NOTES
C301	TEAL CIRCUIT LONGITUDINAL SECTIONS
C302	TEAL CIRCUIT CROSS SECTIONS - SHEET 1 OF 4
C303	TEAL CIRCUIT CROSS SECTIONS - SHEET 2 OF 4
C304	TEAL CIRCUIT CROSS SECTIONS - SHEET 3 OF 4
C305	GREENAWAY STREET LONGITUDINAL AND CROSS SECTIONS
C306	GREENAWAY STREET CROSS SECTIONS
C307	VERIDIAN ROAD LONGITUDINAL AND CROSS SECTIONS
C308	VERIDIAN ROAD CROSS SECTIONS
C309	HEDGE LANE LONGITUDINAL AND CROSS SECTIONS
C310	INTERSECTION DETAILS PLAN
C311	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C312	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2
C313	ACOUSTIC FENCE LAYOUT
C314	ACOUSTIC FENCE TYPICAL SECTIONS
C400	STORMWATER DRAINAGE DETAILS AND NOTES
C401	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2
C402	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 2 OF 2
C403	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 2
C404	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 2
C405	Q2 MINOR STORM CALCULATIONS
C406	Q100 MAJOR STORM CALCULATIONS
C407	STORMWATER STRUCTURE DETAILS
C500	SEWERAGE RETICULATION LOCALITY PLAN & NOTES
C501	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C502	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C503	SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 3
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 3
C505	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 3
C506	SEWERAGE RETICULATION NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C601	WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2
C602	WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2
C700	EROSION AND SEDIMENT CONTOL LAYOUT - CLEAR AND GRUB PHASE
C701	EROSION AND SEDIMENT CONTOL LAYOUT - BULK EARTHWORKS PHASE
C702	EROSION AND SEDIMENT CONTOL LAYOUT - STABILISATION PHASE
C703	EROSION & SEDIMENT CONTROL SECTIONS AND DETAILS - SHEET 1
C704	EROSION & SEDIMENT CONTROL SECTIONS AND DETAILS - SHEET 2
C800	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2
C801	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2

GENERAL NOTES

1. ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
4. THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
6. PROOF ROLLING NOMINATED SHALL BE CARRIED OUT USING A SINGLE AXLE HIGHWAY TRUCK WITH A REAR AXLE LOAD NOT LESS THAN 10 TONNES AND TYRES INFLATED TO 550kPa OR APPROVED EQUIVALENT. EQUIPMENT LABOUR AND LOADING REQUIRED FOR PROOF ROLLING IS TO BE PROVIDED BY THE CONTRACTOR.
7. THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
8. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.

NOISE

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

MONDAY - SATURDAY7:00am to 6:00pm

SUNDAY OR PUBLIC HOLIDAYNO WORK PERMITTED

PRE-CONSTRUCTION & APPROVALS

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

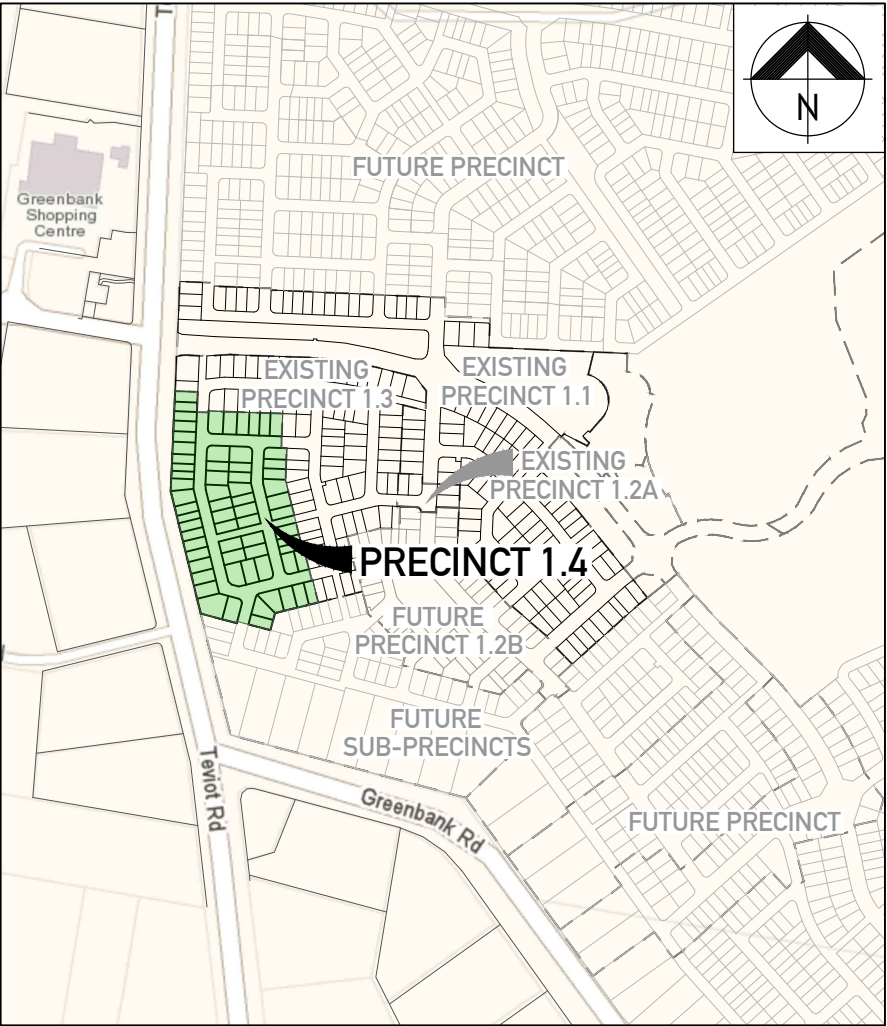
WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

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

EVERLEIGH PRECINCT 1.4
SUBDIVISION DEVELOPMENT
TEVIOT ROAD, GREENBANK
FOR MIRVAC



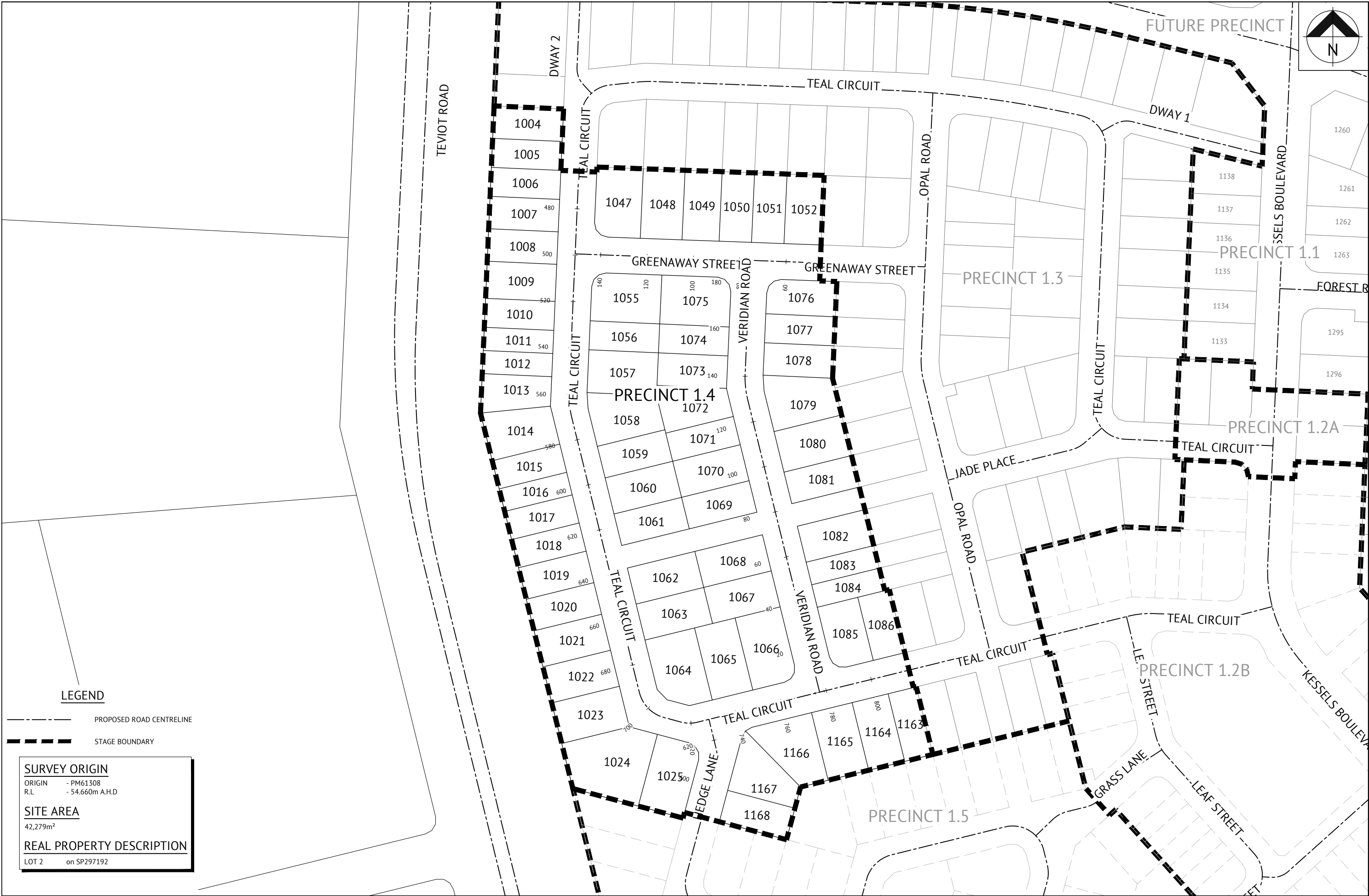
LOCALITY PLAN

0100200300m


SCALE 1:5000 (A1)





PROJECT DIRECTOR	DATE	RPEQ	DATE	REVISION
JOSHUA STONE	19/12/19	JOSHUA STONE	19/12/19	B
			RPEQ 15187	



19/12/19 02/07/18		B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE	JS KH	RPEQ	
DATE	REV		DESCRIPTION		REVISIONS	

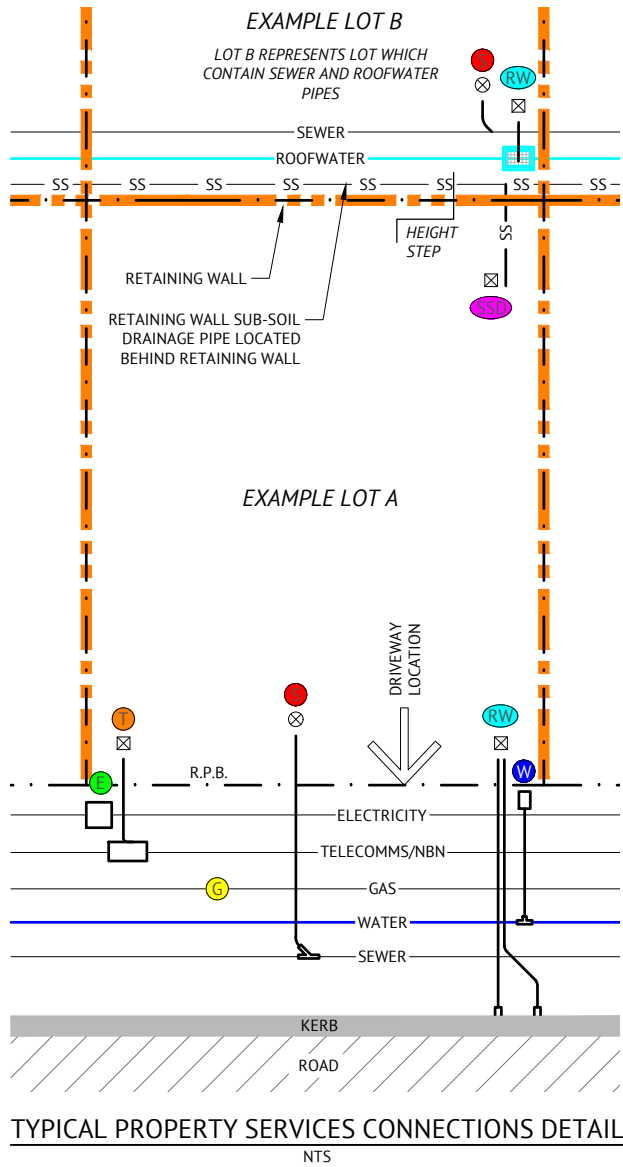
		BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au
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DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR		DATE	19/12/19		

SCALE	0 15 30 45m	SCALE 1:750(A1)
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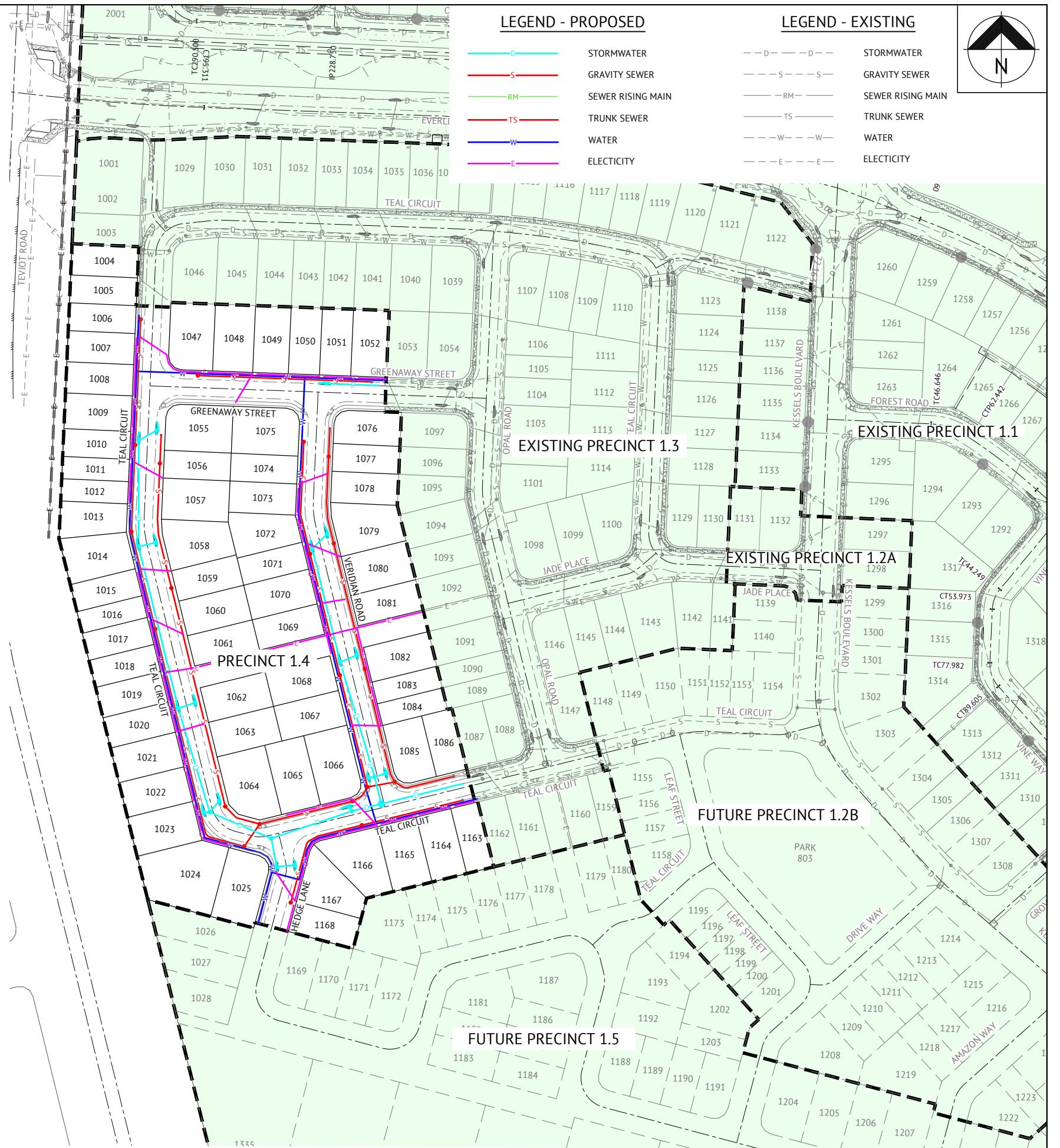
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SURVEY SETOUT PLAN

JOB CODE	MIR001-04
SHEET NUMBER	C002
REV	B



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".
- S** **SEWER** - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 40Ø ORANGE PVC CONDUIT 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".
- E** **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



DATE	REV	DESCRIPTION	REVISIONS
19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
02/07/18	A	ORIGINAL ISSUE	KH

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DESIGNED: MICHAEL MAJZNER
CHECKED: MICHAEL MAJZNER
PROJECT MANAGER: JOSHUA STONE
PROJECT DIRECTOR: JOSHUA STONE

DATE: 19/12/19

RPEQ: JOSHUA STONE
SCALE: 0 20 40 60m
SCALE 1:1000 (A1)

CLIENT: MIRVAC

PROJECT: EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT

LOCATION: TEVIOT ROAD, GREENBANK

SHEET TITLE: OVERALL SERVICES LAYOUT

JOB CODE: MIR001-04

SHEET NUMBER: C003

REV: B

DESIGN HAZARD NOTES:

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

CONSEQUENCE TABLE		
LEVEL	CONSEQUENCE	COST/TIME
5 - CATASTROPHIC	FATALITY OR MULTIPLE PERSONS ONSITE WITH LIFE THREATENING HEALTH EFFECT OR INABILITY TO CONTINUE	HUGE FINANCIAL OR TIME LOSS
4 - MAJOR	EXTENSIVE INJURIES, OR ONSET OF SEVERE OR LIFE THREATENING HEALTH EFFECT TO SINGLE PERSON ONSITE. MULTIPLE PERSONS WITH ONSET OF IRREVERSIBLE HEALTH EFFECTS. 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:

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

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

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

LIKELIHOOD TABLE		
LEVEL	DESCRIPTION	QUANTIFICATION GUIDE
A - ALMOST CERTAIN	THE EVENT <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.

19/12/19 02/07/18	B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE	JS KH RPEQ	<div><div><div></div></div><div>Premise</div></div>	BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au	DESIGNED MICHAEL MAJZNER	RPEQ <div><div></div><div>JOSHUA STONE</div></div>	DATE 19/12/19	CLIENT MIRVAC	JOB CODE MIR001-04
						CHECKED MICHAEL MAJZNER	SCALE RPEQ 15187	PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT		
DATE	REV	DESCRIPTION	REVISIONS			PROJECT MANAGER JOSHUA STONE	PROJECT DIRECTOR <div><div></div><div>JOSHUA STONE</div></div>	DATE 19/12/19	LOCATION TEVIOT ROAD, GREENBANK	SHEET TITLE SAFETY IN DESIGN PLAN



LEGEND - PROPOSED

- PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA INVERT. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- STAMPED AC THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C400.
- PROPOSED ROOFWATER HOUSE CONNECTION (100 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PMT
- PAD MOUNTED TRANSFORMER
- PROPOSED LANDSCAPING WITHIN VERGE. PROVIDE 150x150 CONCRETE EDGE RESTRAINT AT INTERFACE WITH TURFED VERGE. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.

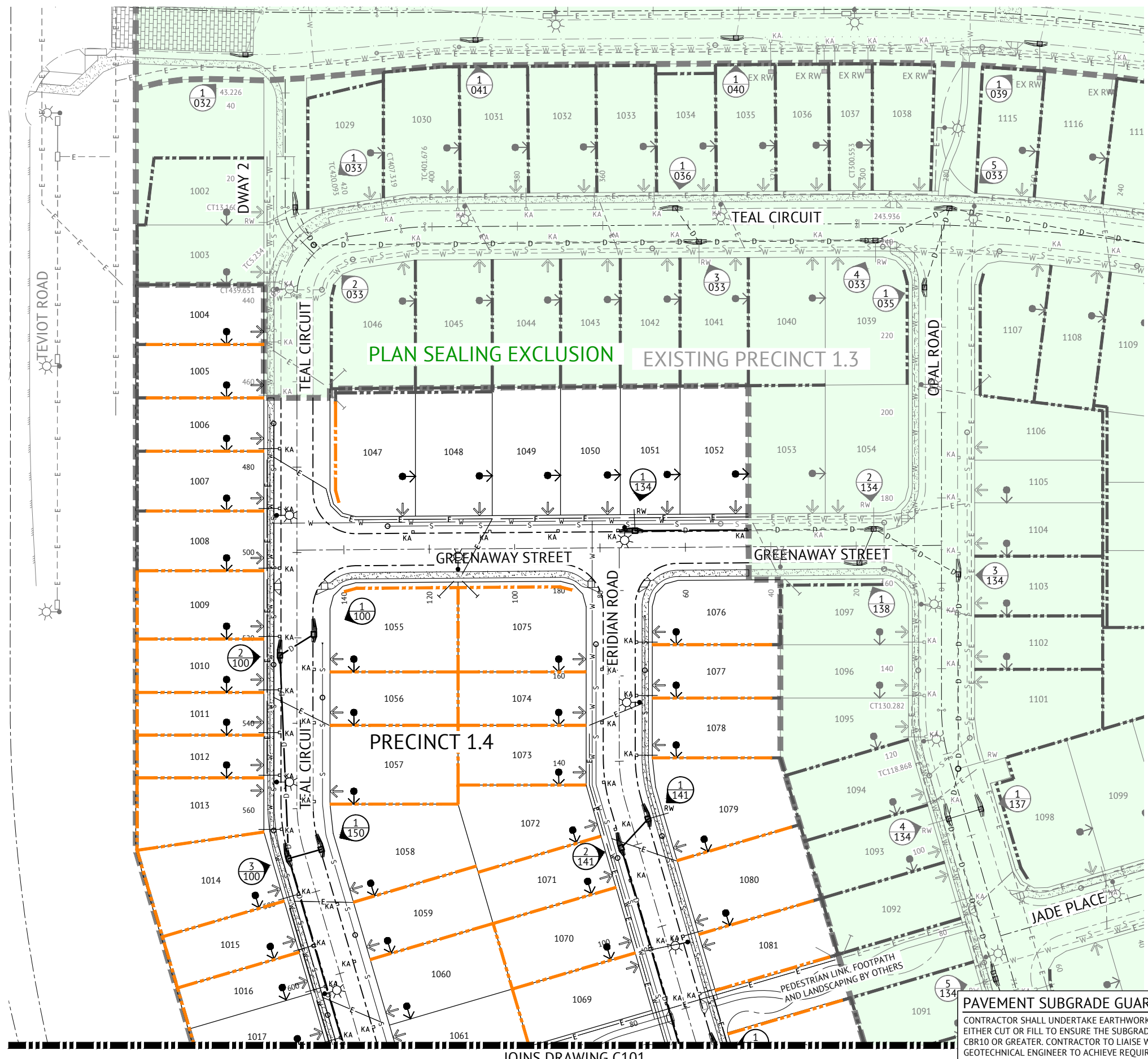
LEGEND - EXISTING

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

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

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

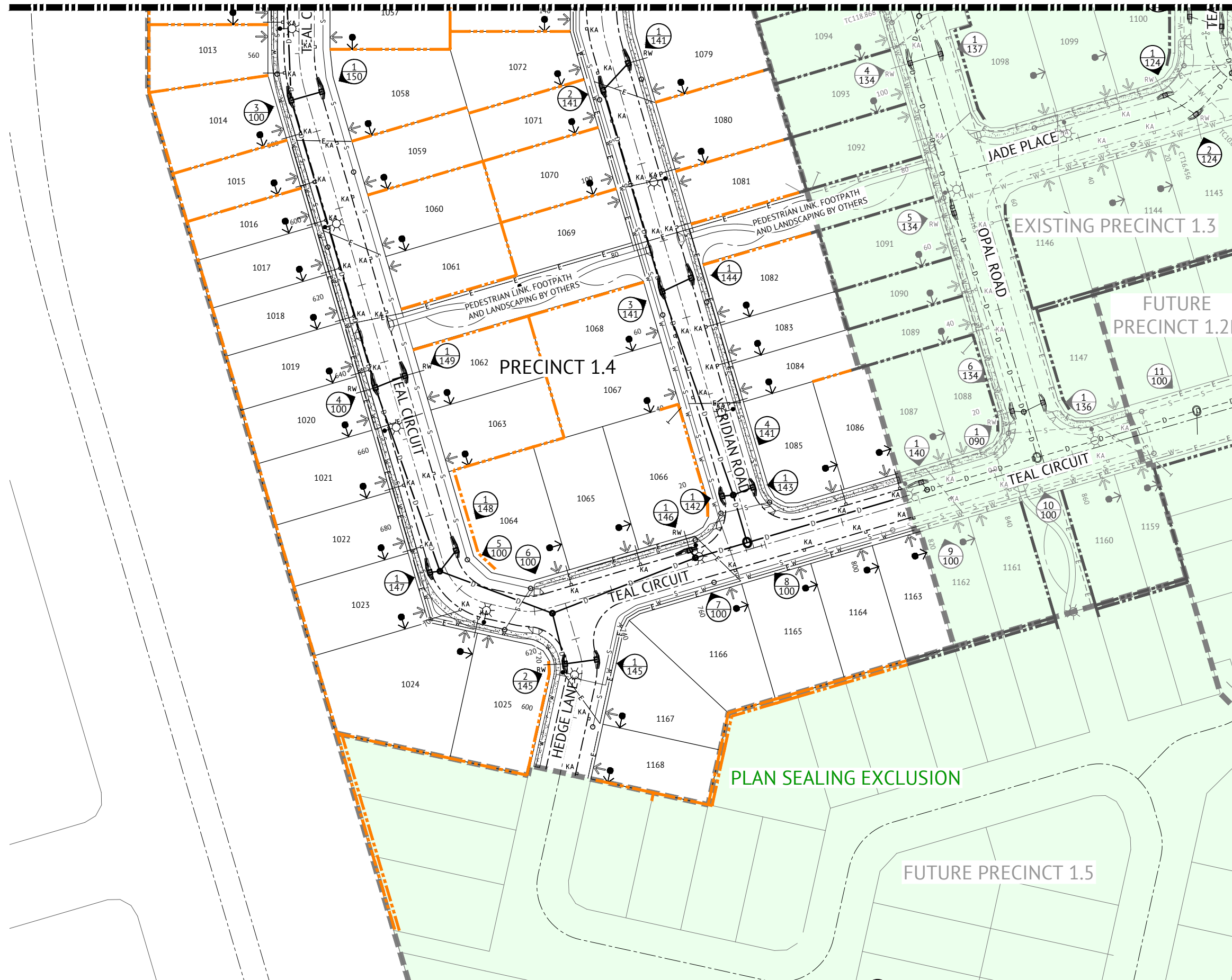
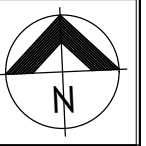
PAVEMENT SUBGRADE GUARANTEE:
CONTRACTOR SHALL UNDERTAKE EARTHWORKS REQUIRED IN EITHER CUT OR FILL TO ENSURE THE SUBGRADE QUALITY IS AT CBR10 OR GREATER. CONTRACTOR TO LIAISE WITH OWN GEOTECHNICAL ENGINEER TO ACHIEVE REQUIREMENT.



JOINS DRAWING C101

<div>19/12/19 21/09/18 06/09/18 02/07/18</div> <div>DATE REV</div>	<div>UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS UPDATED KERB ADAPTORS AND MINOR AMENDMENTS TO LEGEND ADDED NOTE ORIGINAL ISSUE</div> <div>DESCRIPTION</div>	<div>JS KH KH KH</div> <div>JS KH KH KH</div>	<div>19/12/19</div> <div>RPEQ</div>	<div></div> <div>BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au</div>	<div>DESIGNED MICHAEL MAJNER</div> <div>CHECKED MICHAEL MAJNER</div> <div>PROJECT MANAGER JOSHUA STONE</div> <div>PROJECT DIRECTOR JOSHUA STONE</div>	<div>19/12/19</div> <div>DATE</div>	<div></div> <div>JOSHUA STONE</div>	<div>19/12/19</div> <div>DATE</div>	<div>RPEQ 15187</div> <div>RPEQ</div>	<div>SCALE 0 10 20 30m</div> <div>SCALE 1:500 (A1)</div>	<div>CLIENT MIRVAC</div>	<div>PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</div>	<div>LOCATION TEVIOT ROAD, GREENBANK</div>	<div>SHEET TITLE ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2</div>	<div>JOB CODE MIR001-04</div>	<div>SHEET NUMBER C100</div>	<div>REV D</div>
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JOINS DRAWING C100





- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING NO. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING NO. C400 - STORMWATER DRAINAGE DETAILS AND NOTES.
- REFER TO DRAWING No. C100 FOR LEGEND.

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	D	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/09/18	C	UPDATED KERB ADAPTORS	KH
08/08/18	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	KH
02/07/18	A	ORIGINAL ISSUE	KH

**Premise**

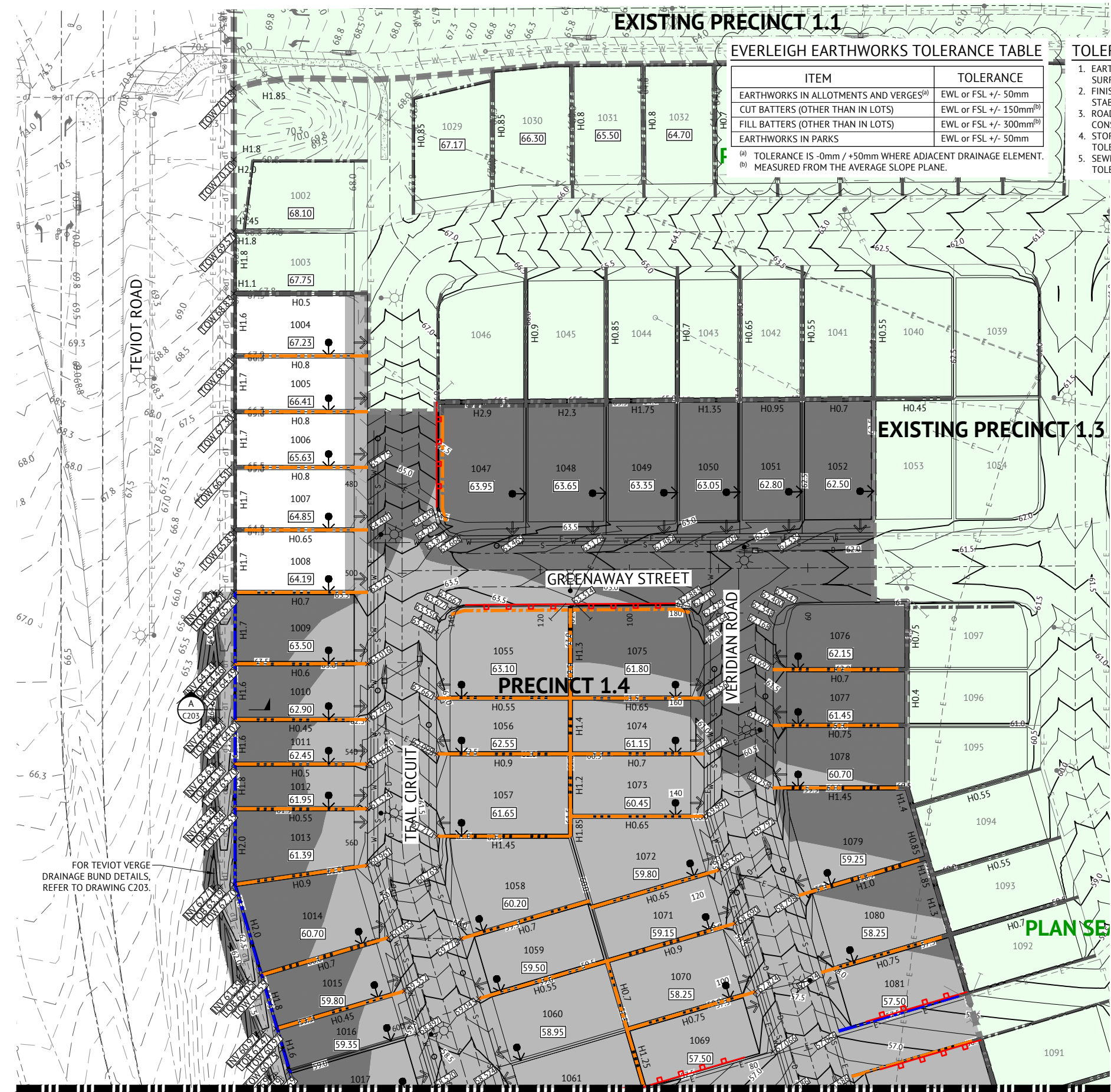
BRISBANE OFFICE
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PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR		DATE	19/12/19		

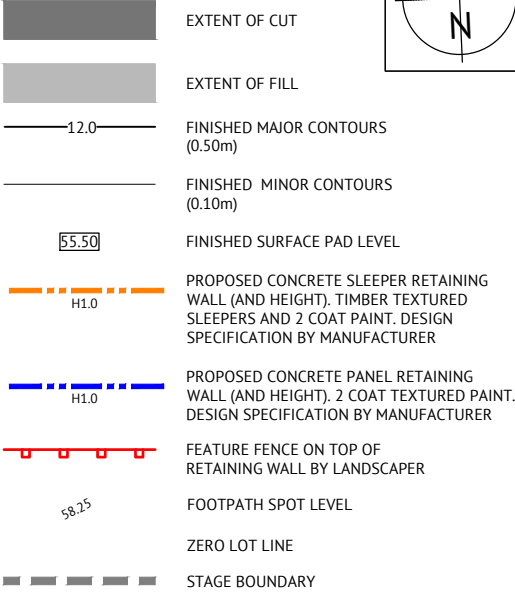
SCALE
0 10 20 30m
SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2

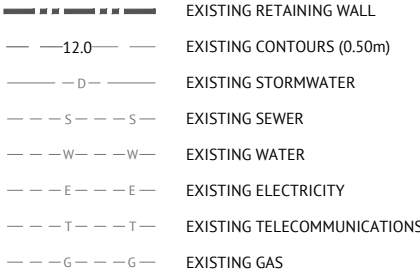
JOB CODE	MIR001-04
SHEET NUMBER	C101
REV	D



LEGEND - PROPOSED



LEGEND - EXISTING



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

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.

DISPERSIVE SOILS MANAGEMENT NOTES:

- 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 DRAWING C702 - EROSION & SEDIMENT CONTROL - STABILISATION PHASE.

EXCAVATION IN ROCK

CONTRACT SHALL INCLUDE TREATING, SIZING, CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER AS3798 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS TO ENSURE LEVEL 1 IS ACHIEVED.

RETAINING WALL DESIGN:

ALL RETAINING WALLS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION RETAINING WALL SPECIFICATION" PREPARED BY PREMISE ENGINEERING.

NOTES

- REFER BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
- PROPOSED SERVICES WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS.
- EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE BY OTHERS.
- FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C202 - EARTHWORKS NOTES AND DETAILS.

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

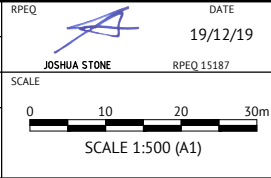
- RETAINING WALLS AND THEIR FOOTINGS SHALL NOT ENCRATCH INTO THE PMT SITE (AS PER RETAINING WALLS LOCATED ADJACENT ROAD RESERVES DETAIL).
- RETAINING WALL DESIGN SHALL CONSIDER ENERGEX REQUIREMENT WHERE RETAINING WALLS ARE LOCATED WITHIN 2m OF PMT SITE.

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	D	UPDATED TOLERANCE TABLE AND ADDED NOTES	
16/04/19	C	ADDED EARTHWORKS TOLERANCE TABLE AND NOTES, AMENDED BUND ON TEVIOT ROAD	
08/08/18	B	PAD FRONT BODY OFFSET REDUCED TO 3M & MINOR EARTHWORKS ALONG P1.1 INTERFACE WITH LOTS	
02/07/18	A	ORIGINAL ISSUE	

Premise

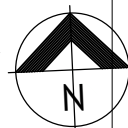
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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR	JOSHUA STONE			DATE	19/12/19



CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2

JOB CODE	MIR001-04
SHEET NUMBER	C200
REV	D



FOR TEVIOT VERGE
DRAINAGE BUND DETAILS,
REFER TO DRAWING C203.

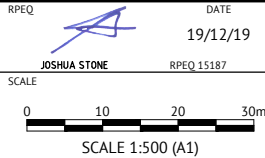
- FOR TYPICAL SECTIONS AND NOTES REFER TO
DRAWING No. C202 - EARTHWORKS NOTES AND
DETAILS.
- REFER TO DRAWING No. C200 FOR LEGEND.

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	D	AMENDED PAD LEVELS AND RET WALL HEIGHTS	JS
16/04/19	C	AMENDED BUND ON TEVIOT ROAD, AMENDED WALL HEIGHTS AND PAD LEVELS	JCS
08/08/18	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	KH
02/07/18	A	ORIGINAL ISSUE	RPEQ



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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR					



CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2

JOB CODE	MIR001-04
SHEET NUMBER	C201
REV	D

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 DRAWING C001, 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.

TESTING

- THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.

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 AS DETERMINED BY THE SUPERINTENDENT WHO SHALL RECOMMEND CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILTESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

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.

CONDUITS

- THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

FILL MANAGEMENT

- ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
- 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 OF VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL. ANY STRUCTURAL CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +3% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH BUILDING SLABS AND ROAD PAVEMENTS.
 - ANY STRUCTURAL, FREE DRAINING SAND FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK, FLOODED, IF NECESSARY, AND COMPACTED TO A MINIMUM DENSITY INDEX OF 70% AS PER AS1289 5.5.1 USING A STATIC SMOOTH ROLLER DRUM NOT LESS THAN 10 TONNE IN STATIC WEIGHT.
 - THE PLACEMENT OF ALL STRUCTURAL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A 'CONTROLLED MANNER', IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
 - 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 DRG. No. C701.
 - ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

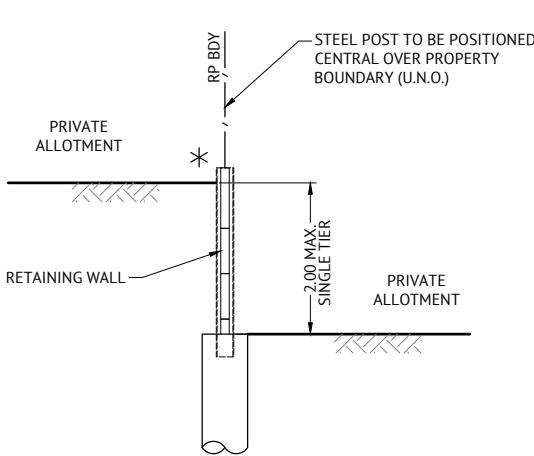
TOPSOIL RESPREAD REQUIREMENTS

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

- ROAD VERGE FRONTING PARK AND OPEN SPACE AREAS
CIVIL CONTRACTOR TO CONSTRUCT TO LEVEL 100mm BELOW FSL. (LANDSCAPE CONTRACTOR TO SPREAD 100mm OF AMELIORATED TOPSOIL).
- BIORETENTION BASIN BATTERS
CIVIL CONTRACTOR TO CONSTRUCT TO LEVEL 300mm BELOW FSL. (LANDSCAPE CONTRACTOR TO SPREAD 300mm OF AMELIORATED TOPSOIL).
- ALLOTMENTS
CIVIL CONTRACTOR TO RESPREAD 100mm TOPSOIL THICKNESS TO ALLOTMENTS.

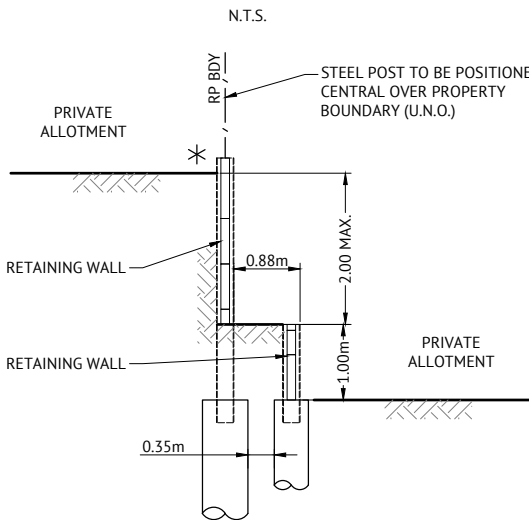
TURF

CONTRACTOR SHALL SUPPLY AND LAY TURF TO ROAD VERGES TO FULL WIDTH OF ROAD RESERVE. WHERE VERGE IS LOCATED ADJACENT PARK AND OPEN SPACES, TURF WILL BE SUPPLIED AND INSTALLED BY LANDSCAPING CONTRACTOR.



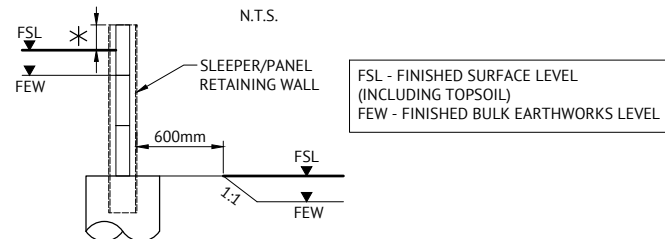
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

0.4m-2m MAX HIGH



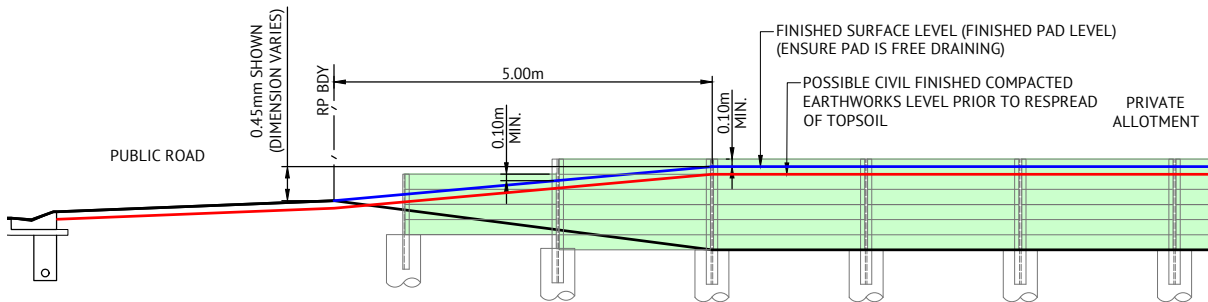
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

2m-3m MAX HIGH



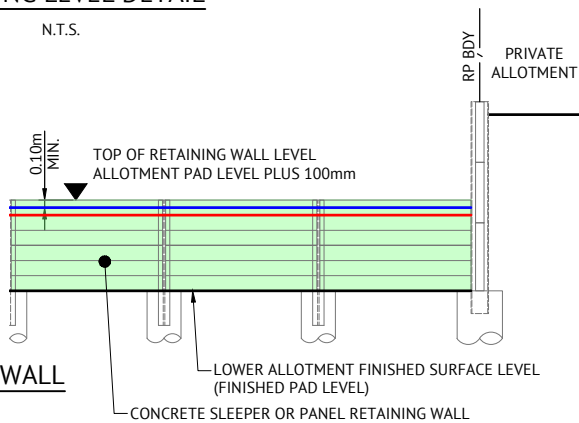
TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL

N.T.S.



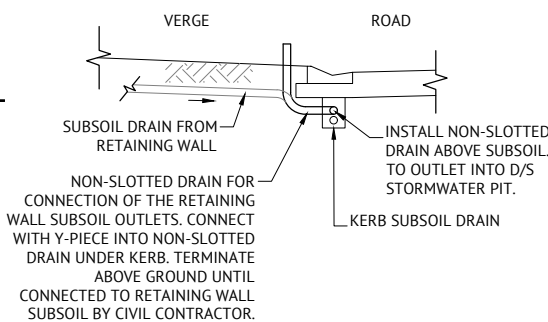
TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL SETOUT AND END DETAIL

N.T.S.



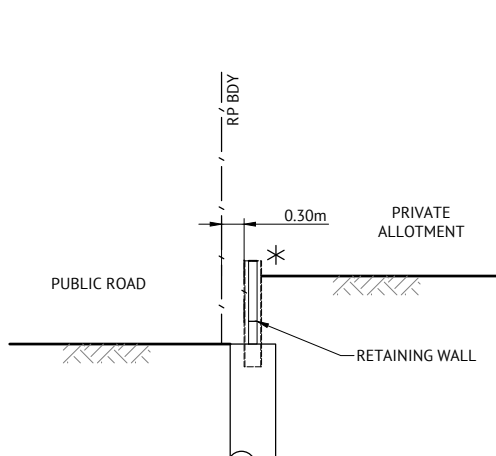
TYPICAL SECTION FOR BATTERS BETWEEN LOTS

SCALE 1:20



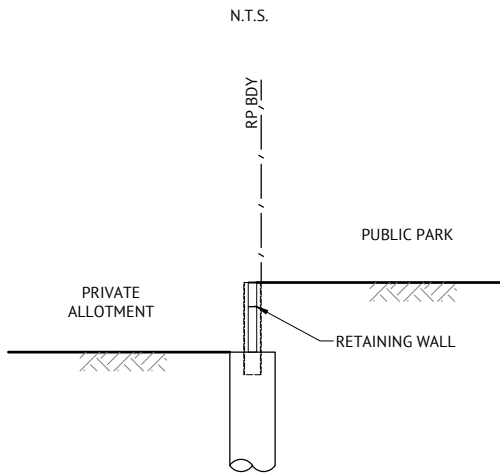
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD

N.T.S.



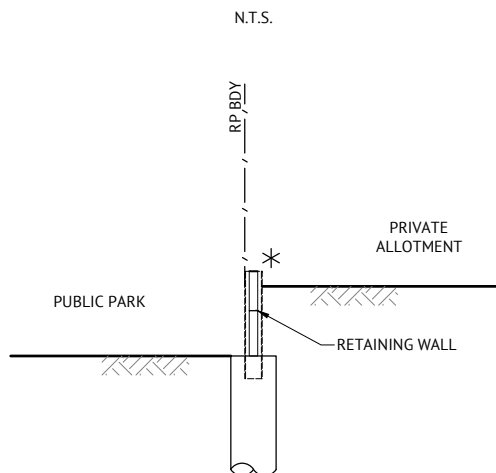
TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER

N.T.S.



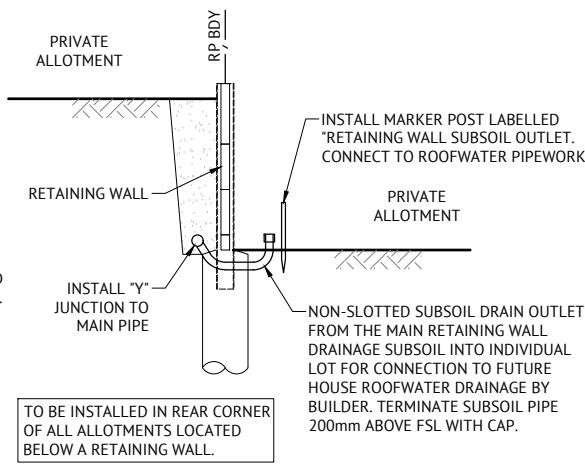
TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

N.T.S.



TYPICAL RETAINING WALL DETAIL PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

N.T.S.



TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS

N.T.S.

19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
16/04/19	B	AMENDED TYPICAL RETAINING WALL TOP & BOTTOM FINISHING LEVEL DETAIL	KH
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

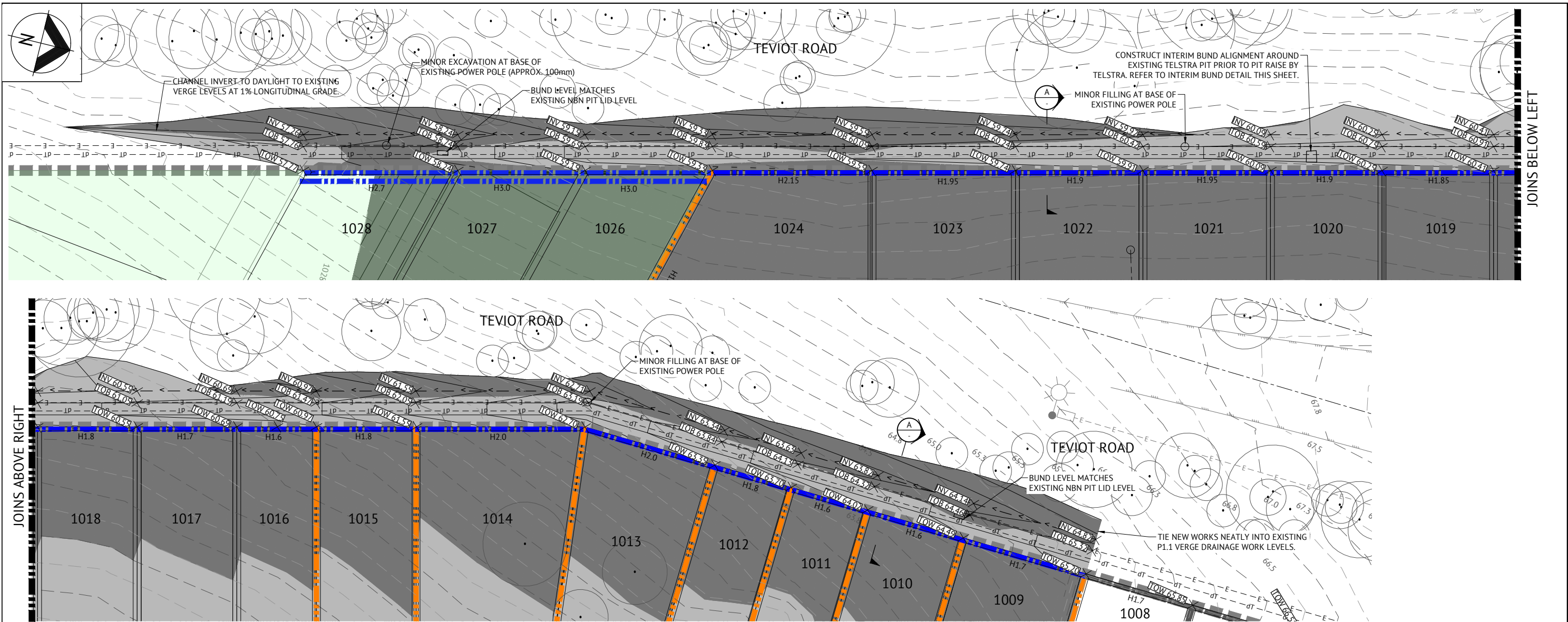


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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER			RPEQ	15187
PROJECT MANAGER	JOSHUA STONE	SCALE			
PROJECT DIRECTOR		DATE	19/12/19		

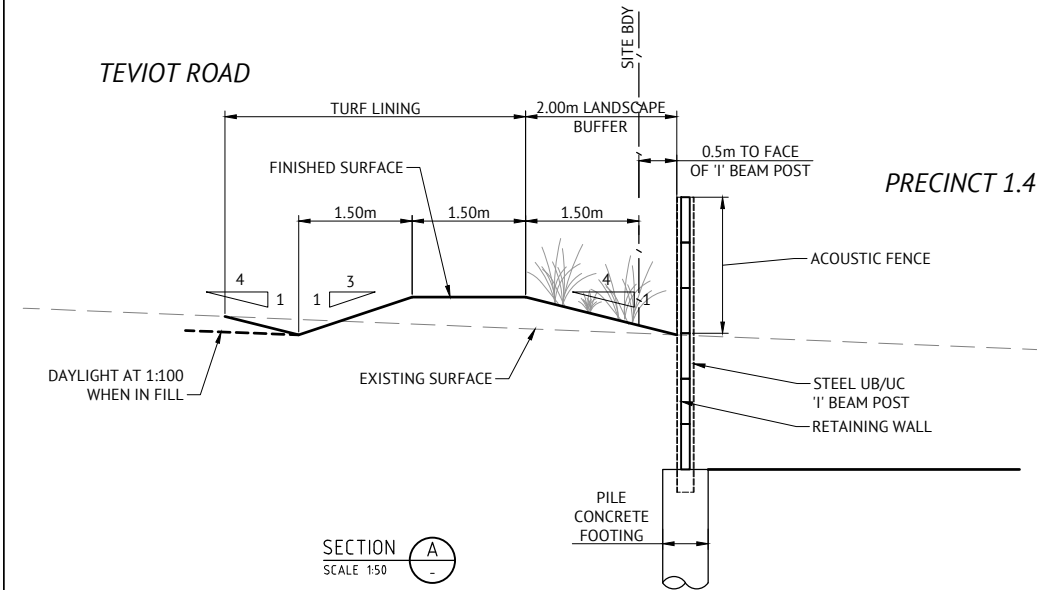
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS NOTES AND DETAILS

JOB CODE	MIR001-04
SHEET NUMBER	C202
REV	C

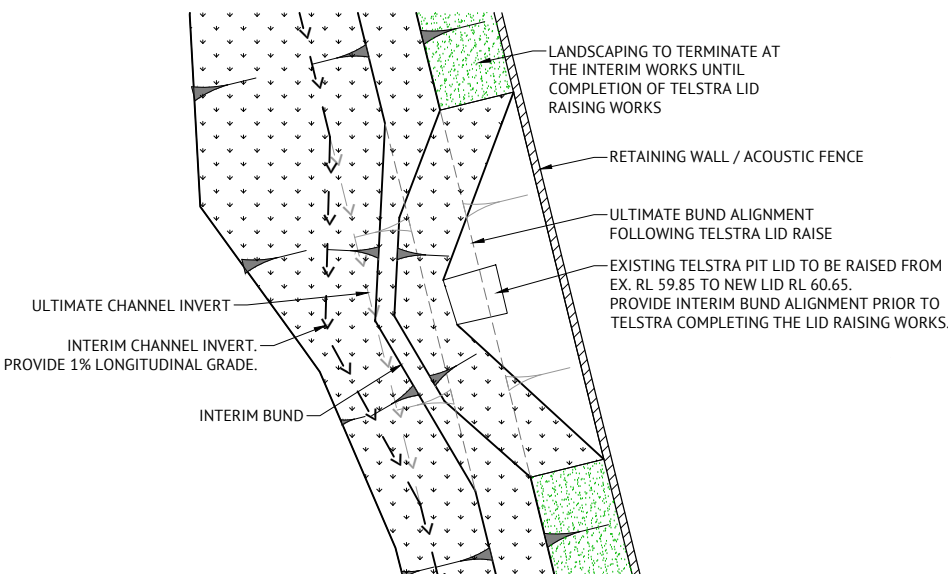


TEVIOT ROAD VERGE DRAINAGE - PLAN VIEW

SC 1:250@A1

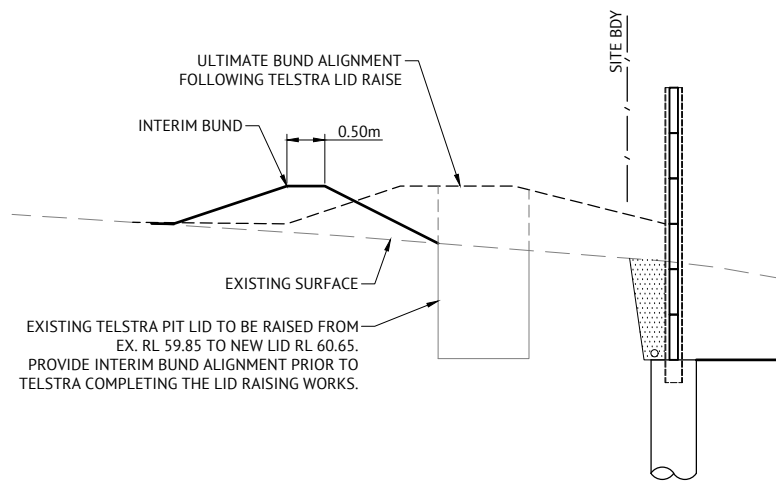


TYPICAL DRAINAGE BUND SECTION



INTERIM BUND DETAIL - PLAN VIEW

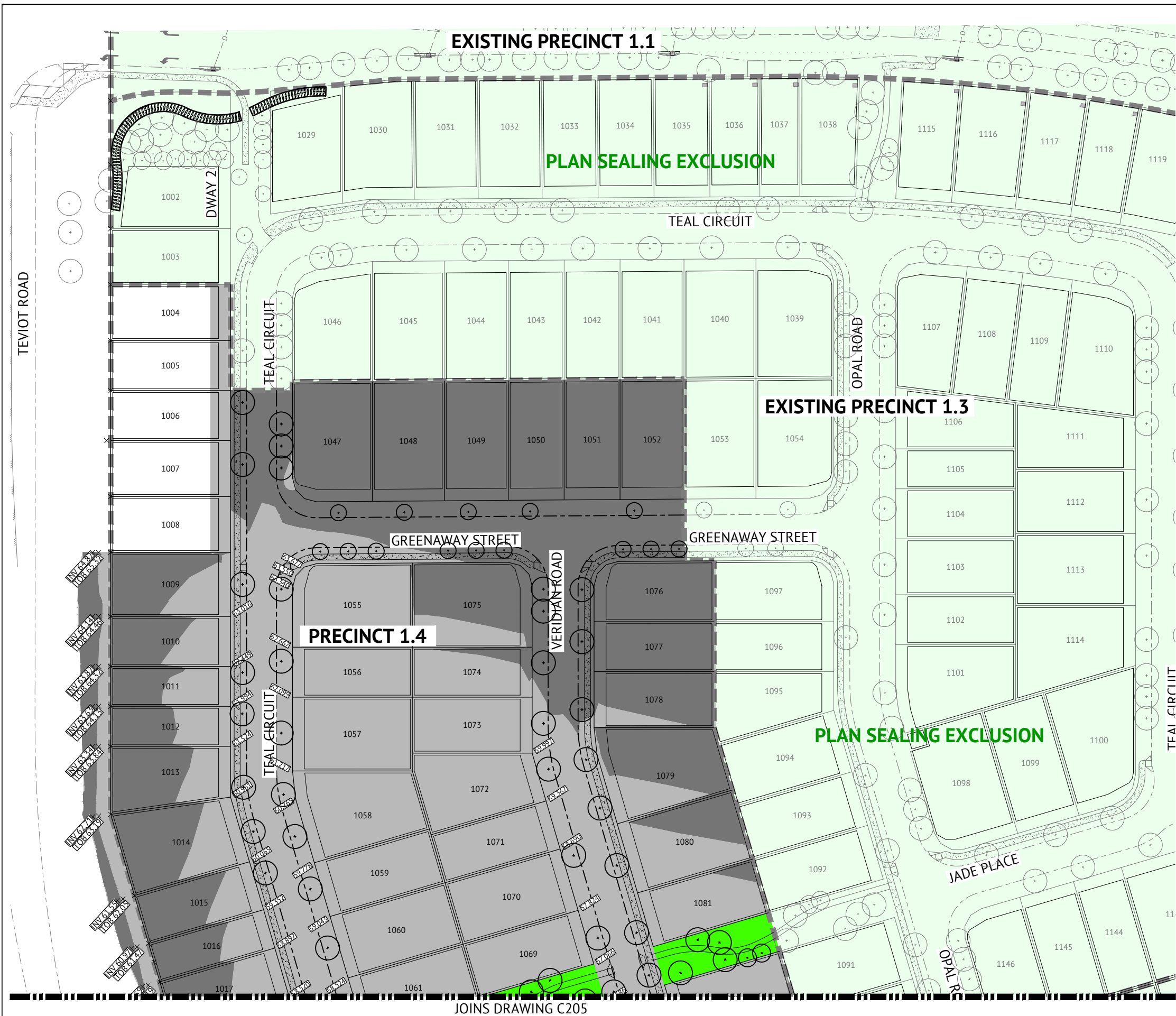
SC 1:100@A1



INTERIM BUND DETAIL - SECTION AT TELSTRA PIT

SC 1:50@A1

10/05/19 16/04/19 02/07/18 DATE REV DESCRIPTION REVISIONS			JCS JCS KH RPEQ			DESIGNED MICHAEL MAJZNER CHECKED MICHAEL MAJZNER PROJECT MANAGER JOSHUA STONE PROJECT DIRECTOR JOSHUA STONE DATE 10/05/19			RPEQ JOSHUA STONE SCALE 0 5 10 15m SCALE 1:250 (A1)			CLIENT MIRVAC PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT LOCATION TEVIOT ROAD, GREENBANK SHEET TITLE EARTHWORKS SECTIONS			JOB CODE MIR001-04 SHEET NUMBER C203 REV C		
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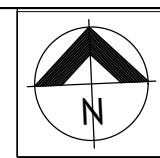


LEGEND


- EXTENT OF CUT
- EXTENT OF FILL
- TREES
- BOLLARD
- LANDSCAPE STRUCTURAL ELEMENT.
CONTRACTOR TO ENSURE AREA IS FREE OF ROCK UP TO A DEPTH OF 2.5M (OR AS REQUIRED) BELOW DESIGN FSL (I.E. ENSURE AREA IS EASY DIGGING FOR THE INSTALLATION OF LANDSCAPE ELEMENT FOOTINGS)
- 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 FINISHED EARTHWORKS LEVEL AND RECOMPACTED TO LEVEL ONE CERTIFICATION.




DATE	REV	DESCRIPTION	REVISIONS
19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
16/07/18	A	ORIGINAL ISSUE	KH



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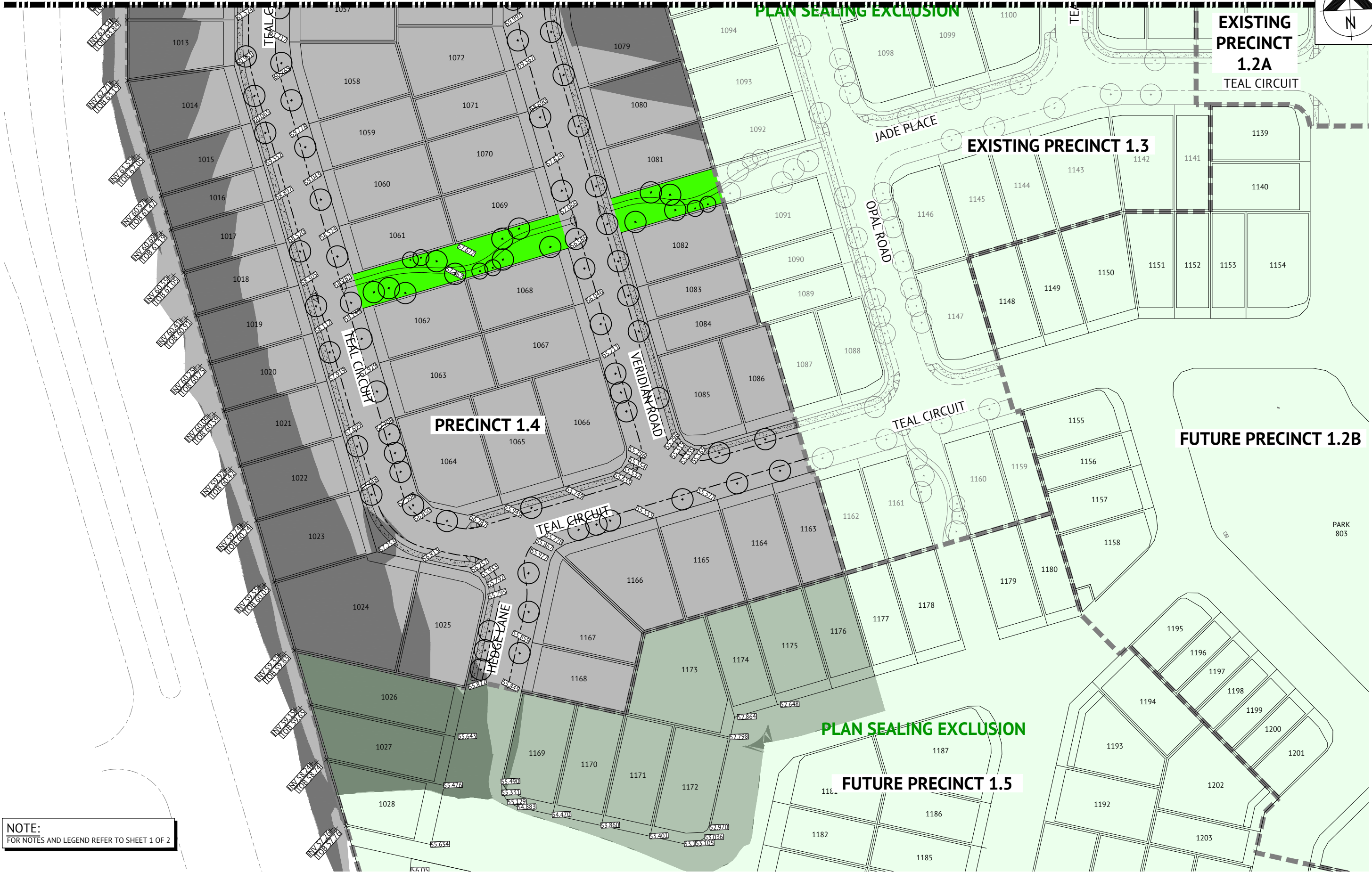
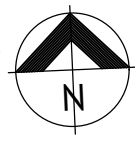
DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR	JOSHUA STONE				



SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS - SHEET 1 OF 2

JOB CODE	MIR001-04
SHEET NUMBER	C204
REV	B

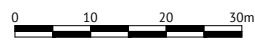


19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
16/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ
REVISIONS			



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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR					



SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS - SHEET 2 OF 2

JOB CODE	MIR001-04
SHEET NUMBER	C205
REV	B

NOTES

1.

ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
2.

NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
3.

THE CONTRACTOR IS TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE COST OF RECTIFICATION OF ANY DAMAGES TO EXISTING SERVICES WHICH MAY OCCUR. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY.
4.

SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION. TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
5.

ALLOTMENT FILLING TO BE COMPACTED TO 95% (min) OF THE R.D.D. (AS 1289 - TESTS E1.1, E4.1).
6.

LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.
7.

LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS APPROVED BY THE SUPERINTENDENT TO ACHIEVE SATISFACTORY CONNECTION TO THE EXISTING WORKS.
8.

SIDE DRAINS AND MITRE DRAINS TO BE CONSTRUCTED ADJACENT TO ALL KERB AND CHANNEL.
9.

PROVIDE FLUSH POINTS TO SUBSOIL DRAINS, LOCATIONS TO BE CONFIRMED ON SITE.
10.

ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION. ALL PIPES ARE 375mm DIAMETER U.N.O.
11.

GULLIES AND GULLY GRATES SHALL BE TO STD. DRGs BSD-8051 - BSD-8059.
12.

KACEY GALV. STEEL KERB ADAPTORS ARE TO BE INSTALLED TO THE REQUIREMENTS OF THE LOCAL COUNCILS STANDARD DRAWINGS AND SPECIFICATIONS.
13.

ALL LOTS SHOWN BOXED TO HAVE ROOFWATER FOOTPATH CROSSINGS TO KERB. CROSSINGS ARE TO BE 88.9 DIA. GALV. CHS.TO KACEY KERB ADAPTOR.
14.

ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
15.

ROOFWATER PITS ARE TO BE 600mm DIAMETER FOR DEPTHS LESS THAN 750mm, 900mm DIAMETER FOR DEPTHS BETWEEN 750mm AND 1500mm DEEP AND 1050mm DIAMETER FOR DEPTHS GREATER THAN 1500mm.
16.

ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
17.

HAZARD MARKERS (D4-4A) TO BE PLACED AT THE END OF NEW WORKS AS DIRECTED BY SUPERINTENDENT.
18.

SITE CBR VALUE AND PAVEMENT DESIGN AND DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
19.

LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
20.

TO BE READ IN CONIUNCTION WITH ALL STORMWATER DRAINAGE LAYOUT PLANS & ROADWORKS DETAILS.

ROADWORKS NOTES

1.

GEOTECHNICAL TESTING FOR PAVEMENT CONSTRUCTION IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION. TEST CERTIFICATES ARE TO BE PREPARED BY A REGISTERED N.A.T.A. LABORATORY AT THE CONTRACTORS COST AND SHALL BE PROVIDED TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
2.

FULL DEPTH PAVEMENT CONSTRUCTION SHALL EXTEND BEHIND ALL KERB AND KERB AND CHANNEL FOR A DISTANCE WHICH IS THE GREATER OF 150mm FROM THE BACK OF KERB OR ACROSS TO THE OUTER LIMIT OF SIDE DRAIN FILTER MATERIAL.
3.

TRANSITION KERB AND CHANNEL TO BARRIER KERB SMOOTHLY OVER MIN. 1.0m LENGTH.
4.

PAVEMENT THICKNESSES NOMINATED ON THESE DRAWINGS ARE PROVISIONAL ONLY AND MAY BE VARIED BY THE SUPERINTENDENT SUBJECT TO INSITU PAVEMENT SUBGRADE TESTING. PAVEMENT SUBGRADES ARE TO BE INITIALLY CONSTRUCTED TO THE UNDERSIDE OF THE NOMINATED LOWER SUBBASE COURSE WITHIN FILL AREAS, AND TO THE UNDERSIDE OF THE NOMINATED UPPER SUBBASE COURSE WITHIN CUT AREAS. INSITU SUBGRADE CBR TESTING AS SPECIFIED FOR PAVEMENT DESIGN VERIFICATION IS TO BE CARRIED OUT AT THESE LEVELS.
5.

REPAIR ANY DAMAGE TO EXISTING KERB AND CHANNEL, FOOTPATH OR ROADWAY (INCLUDING REMOVAL OF CONCRETE SLURRY FROM FOOTPATHS, ROADS, KERB AND CHANNEL AND STORMWATER GULLIES AND SIDEDRAINS) THAT MAY OCCUR DURING ANY WORKS CARRIED OUT.

CONCRETE PAVEMENT

1.

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

CONCRETE PAVEMENT SPECIFICATION:

COMPRESSIVE STRENGTH:25 MPa @ 28 DAYS

FLEXURAL STRENGTH:3.5 MPa @28 DAYS

MAXIMUM AGGREGATE SIZE:20mm

SLUMP:80mm+15mm

MESH:SL72, 50 TOP COVER

BEDDING:100mm MIN CBR 15 BEDDING
3.

MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
4.

PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
5.

CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
6.

ALL JOINTS ARE TO BE SEALED JUST PRIOR TO HANDOVER WITH DOW CORNING '888' SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURING RECOMMENDATIONS.
7.

JOINTS ARE TO BE INSPECTED AND SEALANT REGULARLY REPLACED IF REQUIRED.
8.

DIMENSIONAL TOLERANCES OF AS3600, MODIFIED BY AS3610, SHALL APPLY UNLESS OTHERWISE NOTED. SLAB SURFACE FLATNESS TOLERANCE SHALL BE 5mm MAXIMUM DEVIATION FOR A 3m STRAIGHT EDGE.
9.

CONCRETE PAVEMENTS ARE TO BE BROOM FINISHED. SLAB THICKNESSES NOTED ARE EXCLUSIVE OF APPLIED FINISHES
10.

CURE ALL CONCRETE BY AN APPROVED METHOD FOR 7 DAYS AFTER HARDENING. PVA AND RESIN BASED CURING COMPOUNDS SHALL NOT BE USED.

CONCRETE PAVEMENT MAINTENANCE NOTES

1.

NOTE THAT UPKEEP AND REPLACEMENT OF SEALANTS IS PART OF THE ONGOING MAINTENANCE REQUIREMENTS FOR THIS SITE.
2.

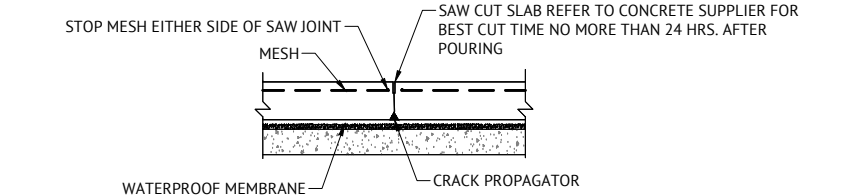
NOTE THAT SHRINKAGE CRACKS OF WIDTH < 1.5mm MAY OCCUR IN CONCRETE PAVEMENTS WITHIN 12 MONTHS OF INITIAL CASTING.
3.

NOTE THAT THE PAVEMENT WILL NOT BE MAINTENANCE FREE FOR ITS DESIGN LIFE.
4.

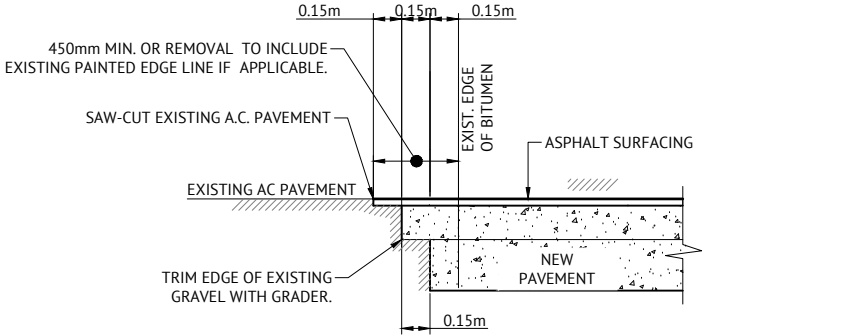
INSPECT FLUSH SIDE DRAINS AND SUBSOIL DRAINS EVERY 12 MONTHS.

CONCRETE REQUIREMENTS

ITEM	28 DAY STRENGTH	CONCRETE CYLINDER TEST	TESTING FREQUENCY
KERB & CHANNEL	N32	REQUIRED	1 TEST PER 300m
VEHICULAR CROSSINGS	N25	REQUIRED	1 TEST PER CROSSING
BIKEWAYS	N25	REQUIRED	1 TEST PER 300m
FOOTPATHS	N25	REQUIRED	1 TEST PER 300m
CONCRETE CHANNELS	N25	REQUIRED	1 TEST PER 150m²
STRUCTURES	AS DESIGN	REQUIRED	AS DIRECTED
ROOFWATER MH'S	N20	NOT REQUIRED	
STORMWATER MH'S	N25	NOT REQUIRED	
PRECAST MANHOLE ROOF SLABS	N40	NOT REQUIRED	
GULLY PITS			
.. PRECAST LINTEL	N30	NOT REQUIRED	
.. OTHER	N25	NOT REQUIRED	

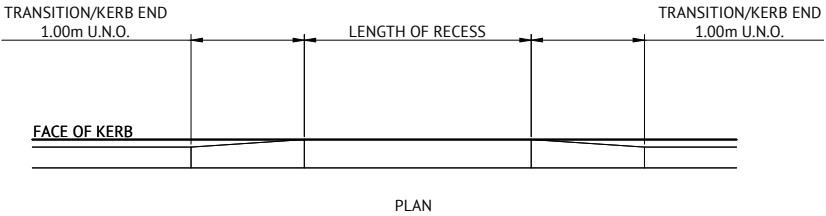
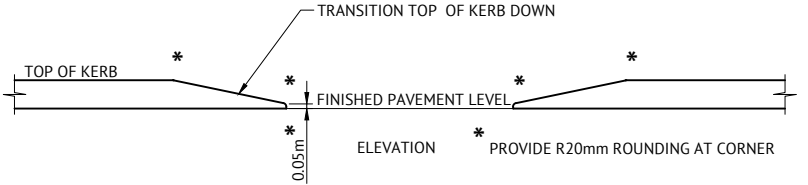


SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

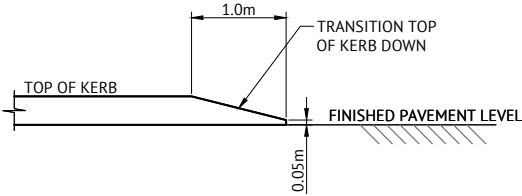
N.T.S







PLAN

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

TYPICAL KERB RECESS / END DETAIL



KERB END DETAIL

19/12/19 02/07/18	B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE	JS KH	RPEQ	 Premise	BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au	DESIGNED	MICHAEL MAJZNER	RPEQ  JOSHUA STONE	DATE	19/12/19	SCALE  SCALE 1:250 (A1)	CLIENT		MIRVAC	JOB CODE MIR001-04
							CHECKED	MICHAEL MAJZNER		PROJECT			EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT			
							PROJECT MANAGER	JOSHUA STONE		LOCATION			TEVIOT ROAD, GREENBANK			
DATE	REV	DESCRIPTION	REVISIONS				PROJECT DIRECTOR	 JOSHUA STONE	DATE	19/12/19		SHEET TITLE		ROADWORKS TYPICAL SECTIONS & NOTES	SHEET NUMBER C300	REV B

PAVEMENT DESIGN	
ROADS	- TEAL CIRCUIT CH. 463.78 - CH. 816.80
CLASS	- ACCESS STREET (TYPICAL)
ESA's	- 5.9×10^5
SURFACE	- 35mm AC of 10mm MIX
PRIMER TYPE	PRIME
CBR 80	- 150mm
CBR 45	- 150mm
TOTAL BOX	- 335mm



* REFER TO INTERSECTION
DETAILS PLANS

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

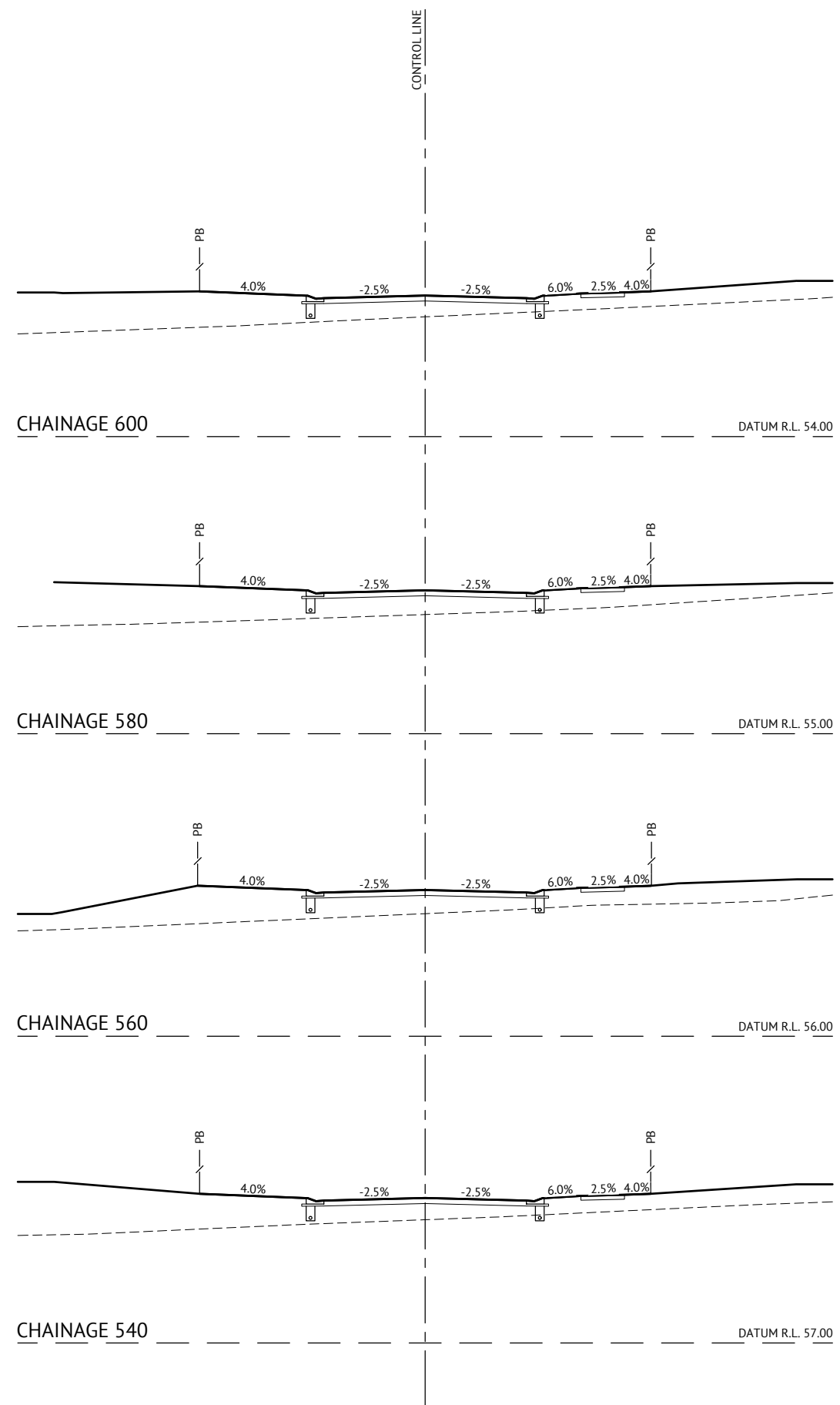
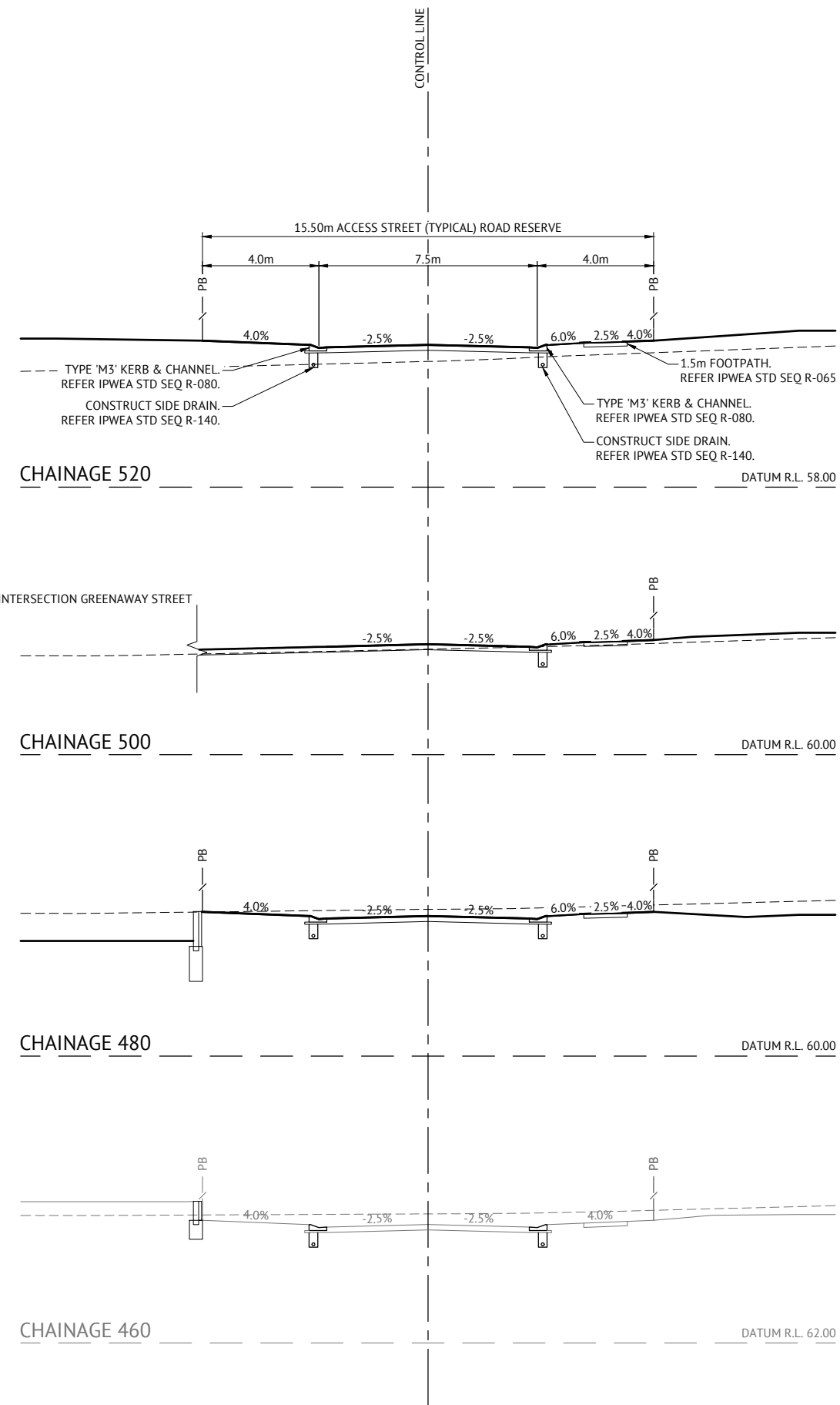
DATUM R.L.47.0

TEAL CIRCUIT LONGITUDINAL SECTION

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RPEQ		DATE	19/12/19
	JOSHUA STONE	RPEQ 15187	
SCALE	<p>HORIZONTAL 1:1000 (A1)</p>  <p>VERTICAL 1:100 (A1)</p>		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEAL CIRCUIT LONGITUDINAL SECTIONS

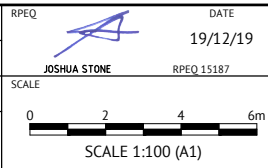


19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/08/18	B	UPDATED SLOPES ON VERGES WITH FOOTPATHS	KH
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ



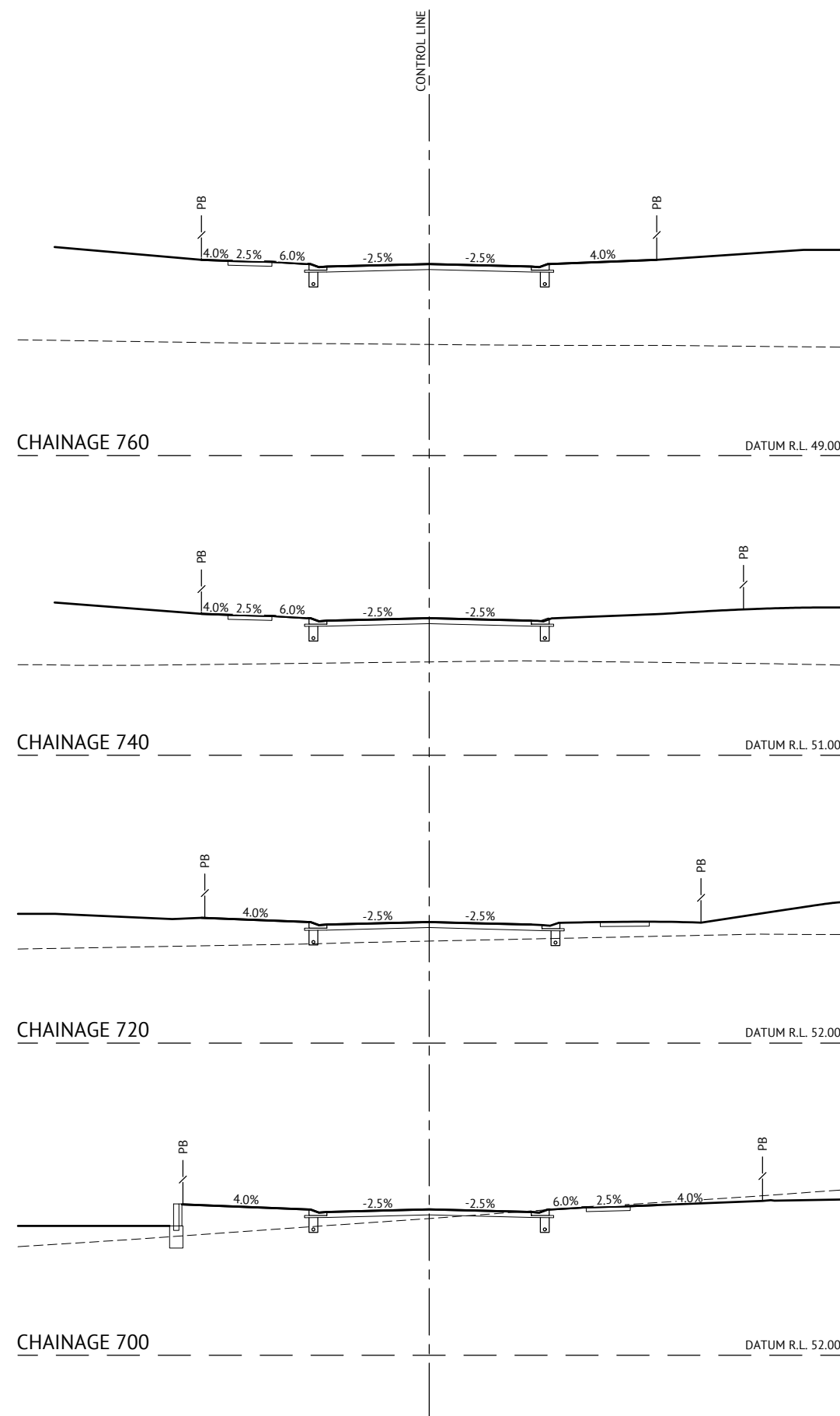
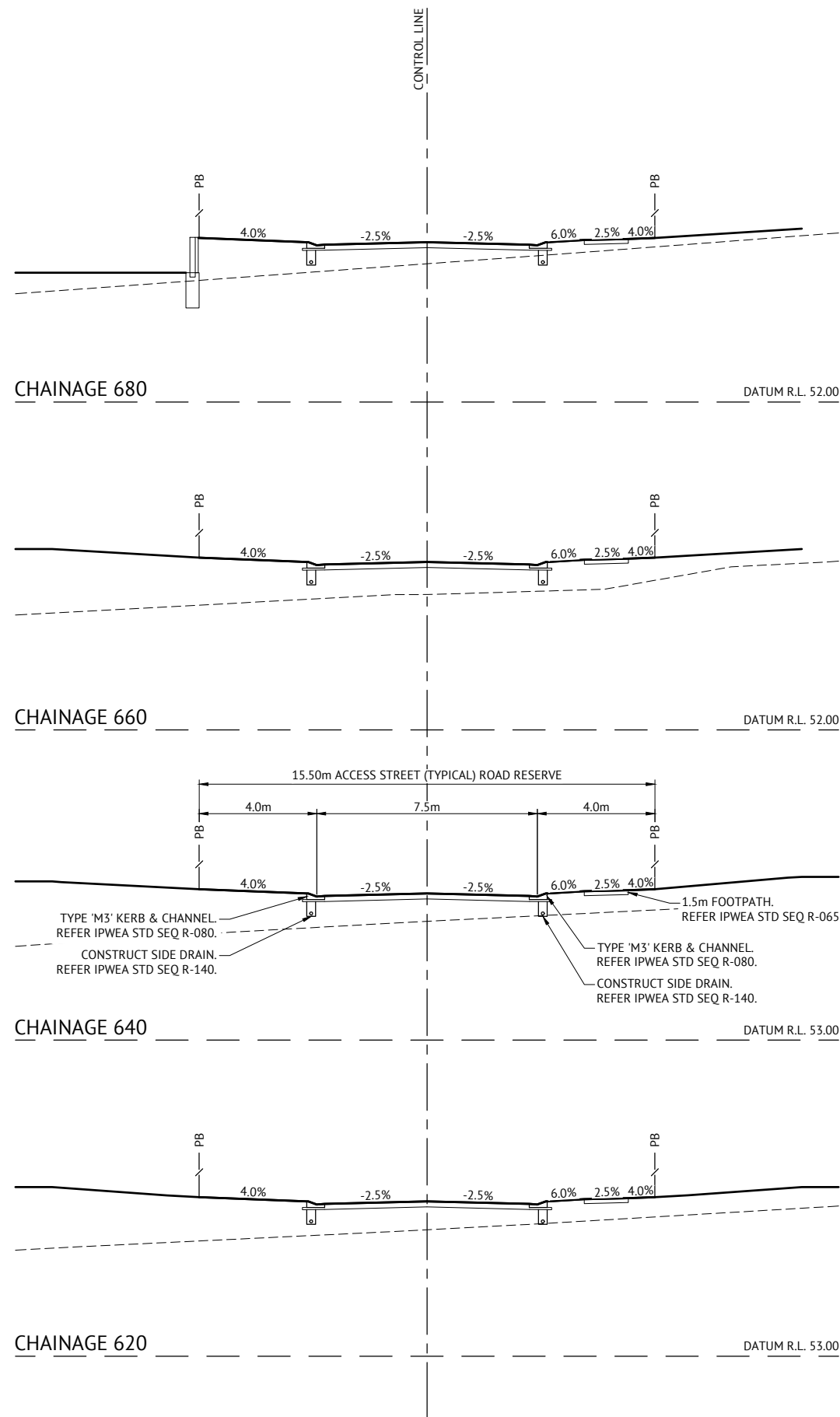
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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR	JOSHUA STONE				



CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEAL CIRCUIT CROSS SECTIONS - SHEET 1 OF 3

JOB CODE	MIR001-04
SHEET NUMBER	C302
REV	C

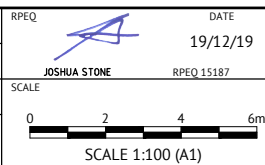


19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/08/18	B	UPDATED SLOPES ON VERGES WITH FOOTPATHS	KH
02/07/18	A	ORIGINAL ISSUE	RPEQ
DATE	REV	DESCRIPTION	REVISIONS



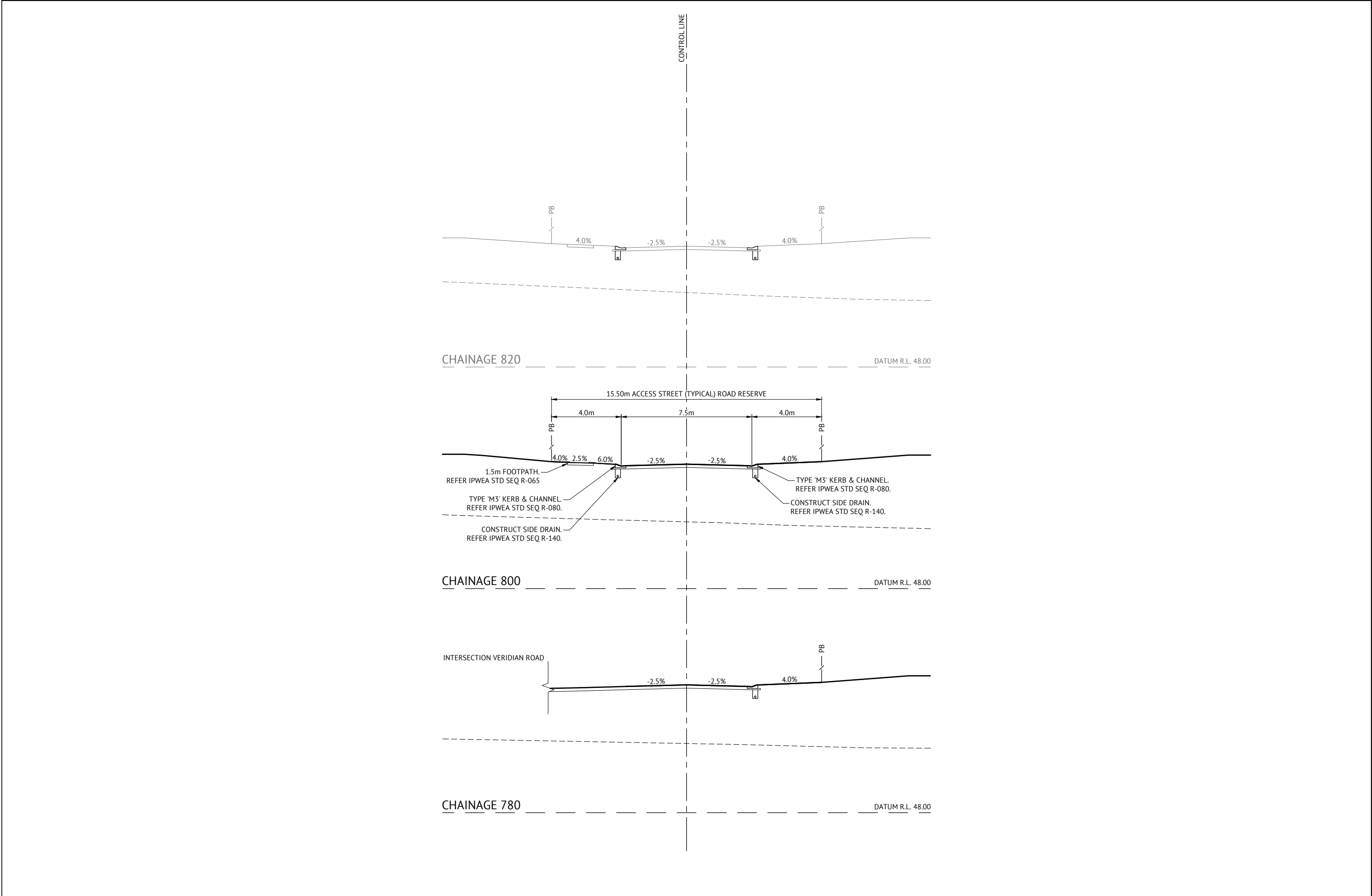
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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	JOSHUA STONE	19/12/19
PROJECT MANAGER	JOSHUA STONE	RPEQ 15187	
PROJECT DIRECTOR	JOSHUA STONE	DATE	19/12/19



CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEAL CIRCUIT CROSS SECTIONS - SHEET 2 OF 3

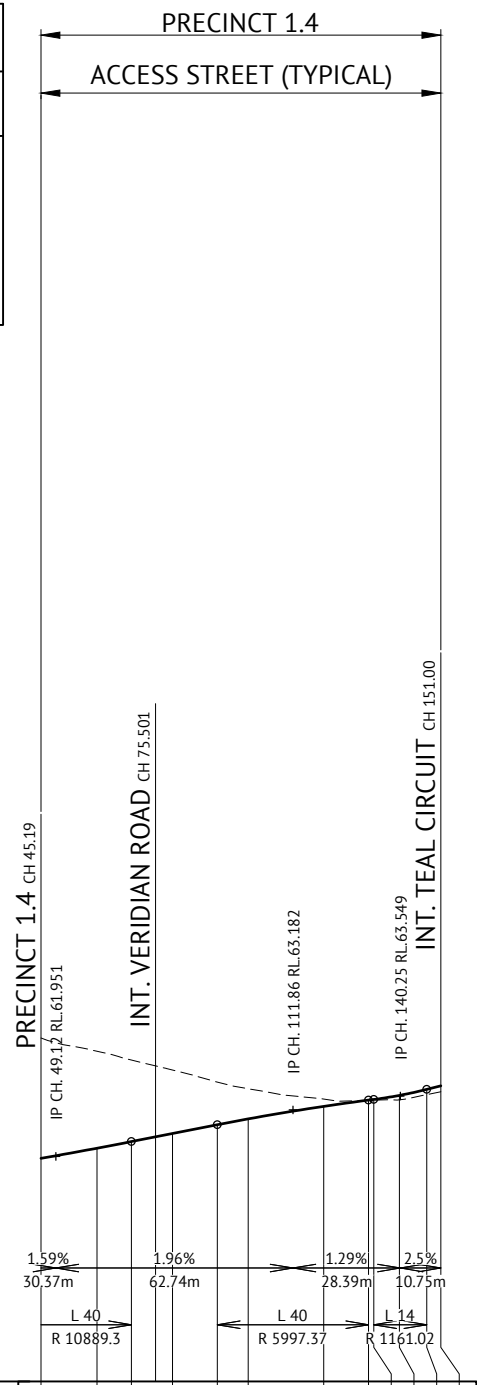
JOB CODE	MIR001-04
SHEET NUMBER	C303
REV	C



<div><div><div>19/12/19</div><div>21/08/18</div><div>02/07/18</div></div><div><div>C</div><div>B</div><div>A</div></div><div><div>UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS</div><div>UPDATED SLOPES ON VERGES WITH FOOTPATHS</div><div>ORIGINAL ISSUE</div></div></div> <div><div>JS</div><div>KH</div><div>KH</div></div> <div><div>RPEQ</div></div>				<div><div></div><div><div>BRISBANE OFFICE</div><div>LEVEL 1, 100 BRUNSWICK STREET</div><div>PO BOX 361</div><div>FORTITUDE VALLEY, QLD 4006</div><div>PH: (07) 3253 2222</div><div>WEB: www.premise.com.au</div></div></div>	<div><div>DESIGNED</div><div>MICHAEL MAJZNER</div></div> <div><div>CHECKED</div><div>MICHAEL MAJZNER</div></div> <div><div>PROJECT MANAGER</div><div>JOSHUA STONE</div></div> <div><div>PROJECT DIRECTOR</div><div>JOSHUA STONE</div></div>	<div><div>RPEQ</div><div>JOSHUA STONE</div></div> <div><div>DATE</div><div>19/12/19</div></div> <div><div>SCALE</div><div>0 2 4 6m</div><div>SCALE 1:100 (A1)</div></div>	<div><div>CLIENT</div><div>MIRVAC</div></div> <div><div>PROJECT</div><div>EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</div></div> <div><div>LOCATION</div><div>TEVIOT ROAD, GREENBANK</div></div> <div><div>SHEET TITLE</div><div>TEAL CIRCUIT CROSS SECTIONS - SHEET 3 OF 3</div></div>	<div><div>JOB CODE</div><div>MIR001-04</div></div> <div><div>SHEET NUMBER</div><div>C304</div></div> <div><div>REV</div><div>C</div></div>
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PAVEMENT DESIGN		
ROADS	-	GREENAWAY STREET
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9 x 10 ⁵
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

CONTRACTOR SHALL GUARANTEE CBR 10 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 TO PAVEMENT CONSTRUCTION.



* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)

Vertical Grade Length (m)

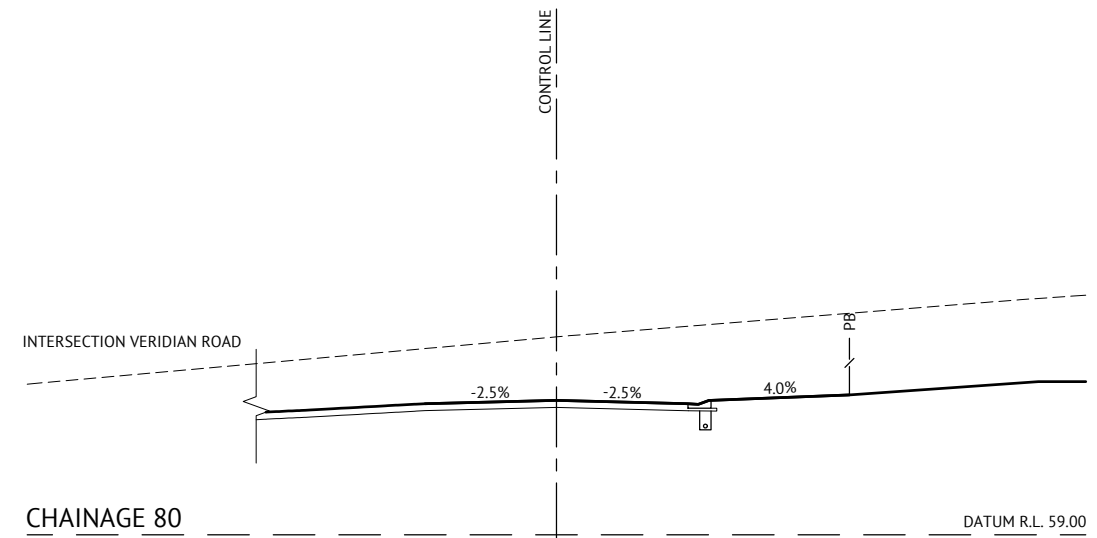
Vertical Curve Length (m)

Vertical Curve Radius (m)

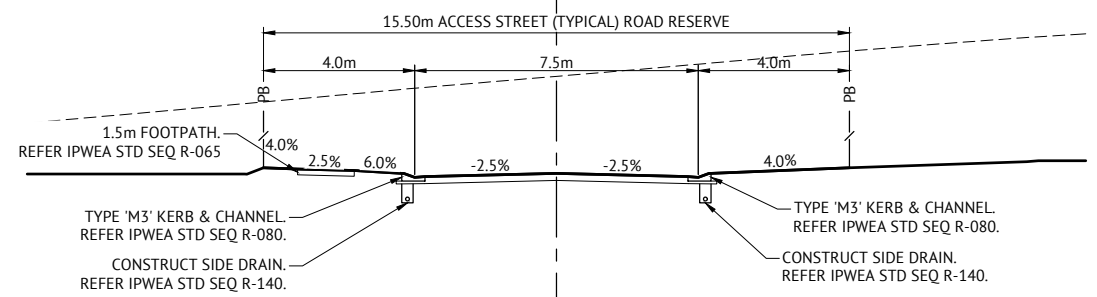
DATUM R.L. 56.0

CUT (-)/FILL DEPTH	-3.183	-2.565	-2.156	-1.680	-1.128	-0.798	-0.194	0.006	0.020	0.117	0.139	0.156
LHS LIP LEVEL	61.813	62.081	*	62.702	62.856	63.188	63.353	63.371	*			
RHS LIP LEVEL	61.813	62.081	62.257	62.470	62.702	62.856	63.188	63.353	63.371	*		
DESIGN SURFACE	61.900	62.168	62.344	62.557	62.789	62.943	63.275	63.440	63.458	63.565	63.724	63.818
NATURAL SURFACE	65.083	64.734	64.499	64.237	63.917	63.742	63.469	63.434	63.439	63.448	63.585	63.662
CHAINAGE	45.19	60.00	69.12	80.00	91.86	100.00	120.00	131.86	133.25	140.00	147.25	151.00

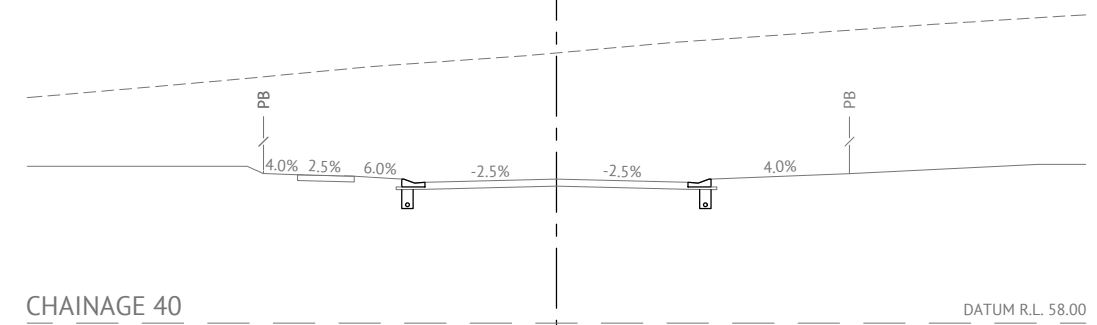
GREENAWAY STREET LONGITUDINAL SECTION



CHAINAGE 80




CHAINAGE 60




CHAINAGE 40



GREENAWAY STREET LONGITUDINAL SECTION


19/12/19 21/08/18 02/07/18	C B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS UPDATED SLOPES ON VERGES WITH FOOTPATHS ORIGINAL ISSUE	JS KH KH	 Premise	BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au	DESIGNED MICHAEL MAJZNER CHECKED MICHAEL MAJZNER PROJECT MANAGER JOSHUA STONE PROJECT DIRECTOR JOSHUA STONE	RPEQ JOSHUA STONE SCALE HORIZONTAL 1:1000 (A1) VERTICAL 1:100 (A1)	DATE 19/12/19 RPEQ 15187	CLIENT MIRVAC PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT LOCATION TEVIOT ROAD, GREENBANK SHEET TITLE GREENAWAY STREET LONGITUDINAL AND CROSS SECTIONS	JOB CODE MIR001-04 SHEET NUMBER C305 REV C
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19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/08/18	B	UPDATED SLOPES ON VERGES WITH FOOTPATHS	KH
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ
REVISIONS			



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

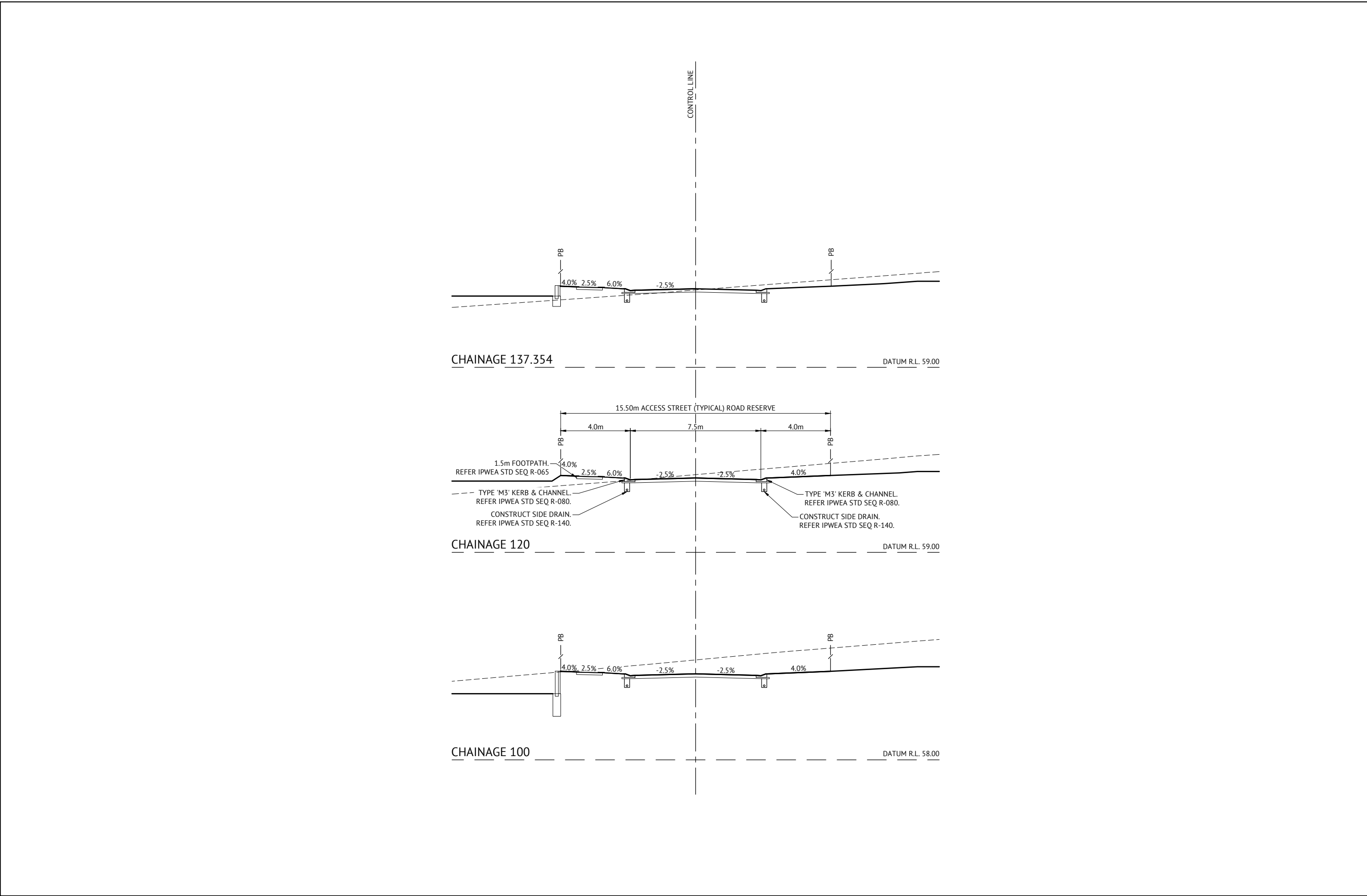
DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR		DATE	19/12/19		

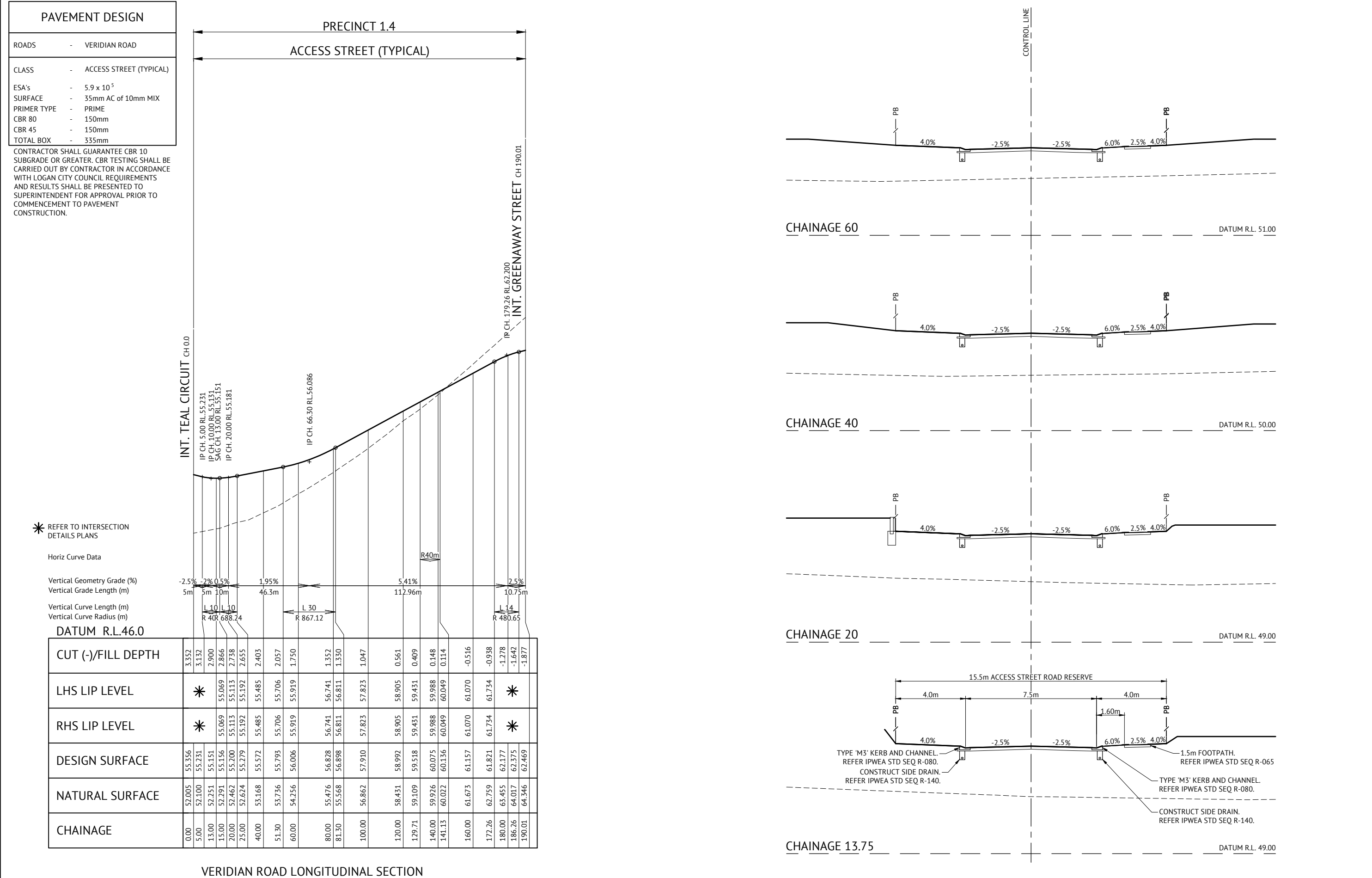


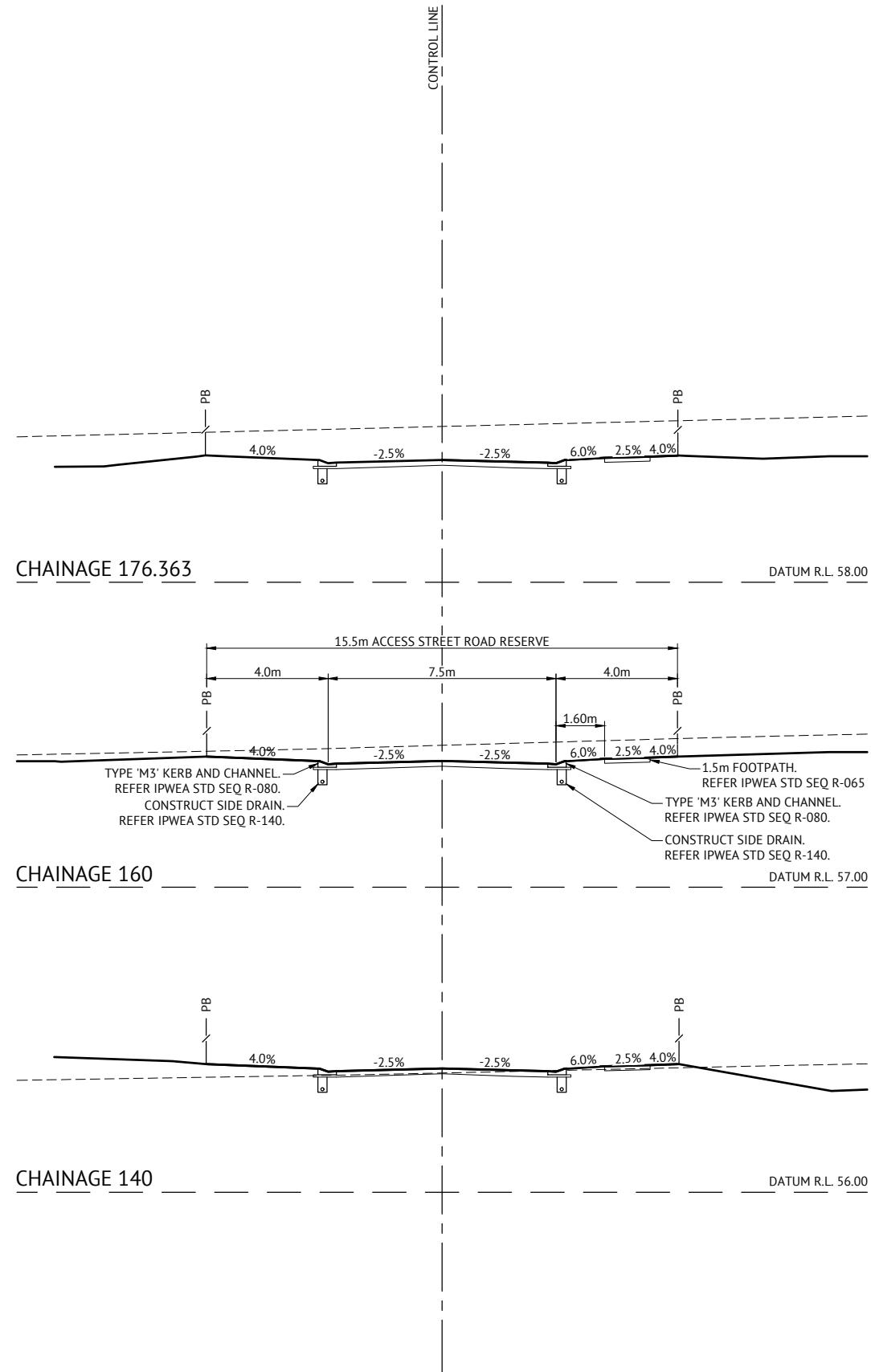
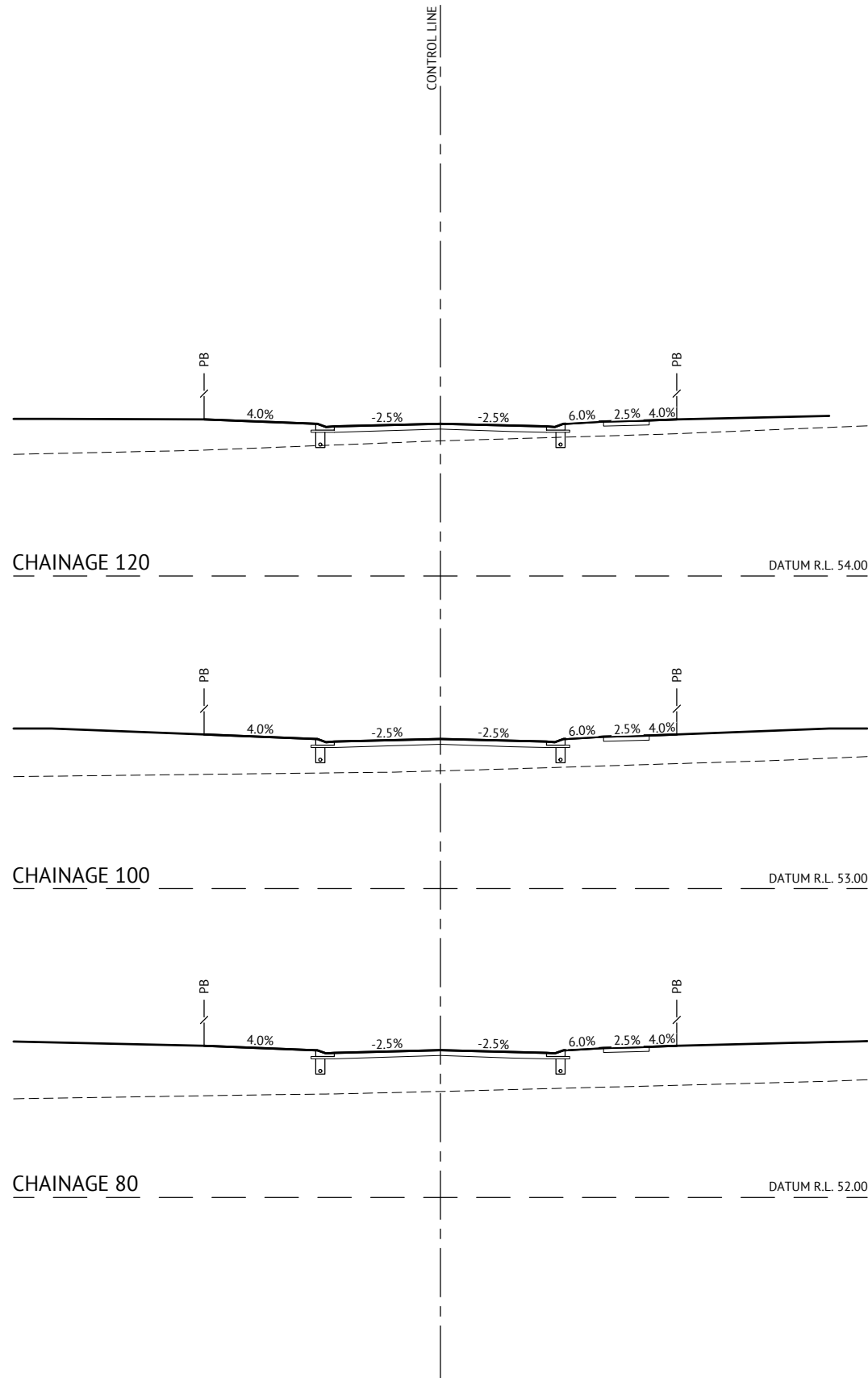
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CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	GREENAWAY STREET CROSS SECTIONS


JOB CODE	
MIR001-04	
SHEET NUMBER	REV
C306	C









19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/08/18	B	UPDATED SLOPES ON VERGES WITH FOOTPATHS	KH
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

**Premise**

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DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER		JOSHUA STONE	RPEQ 15187	
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR		DATE	19/12/19		

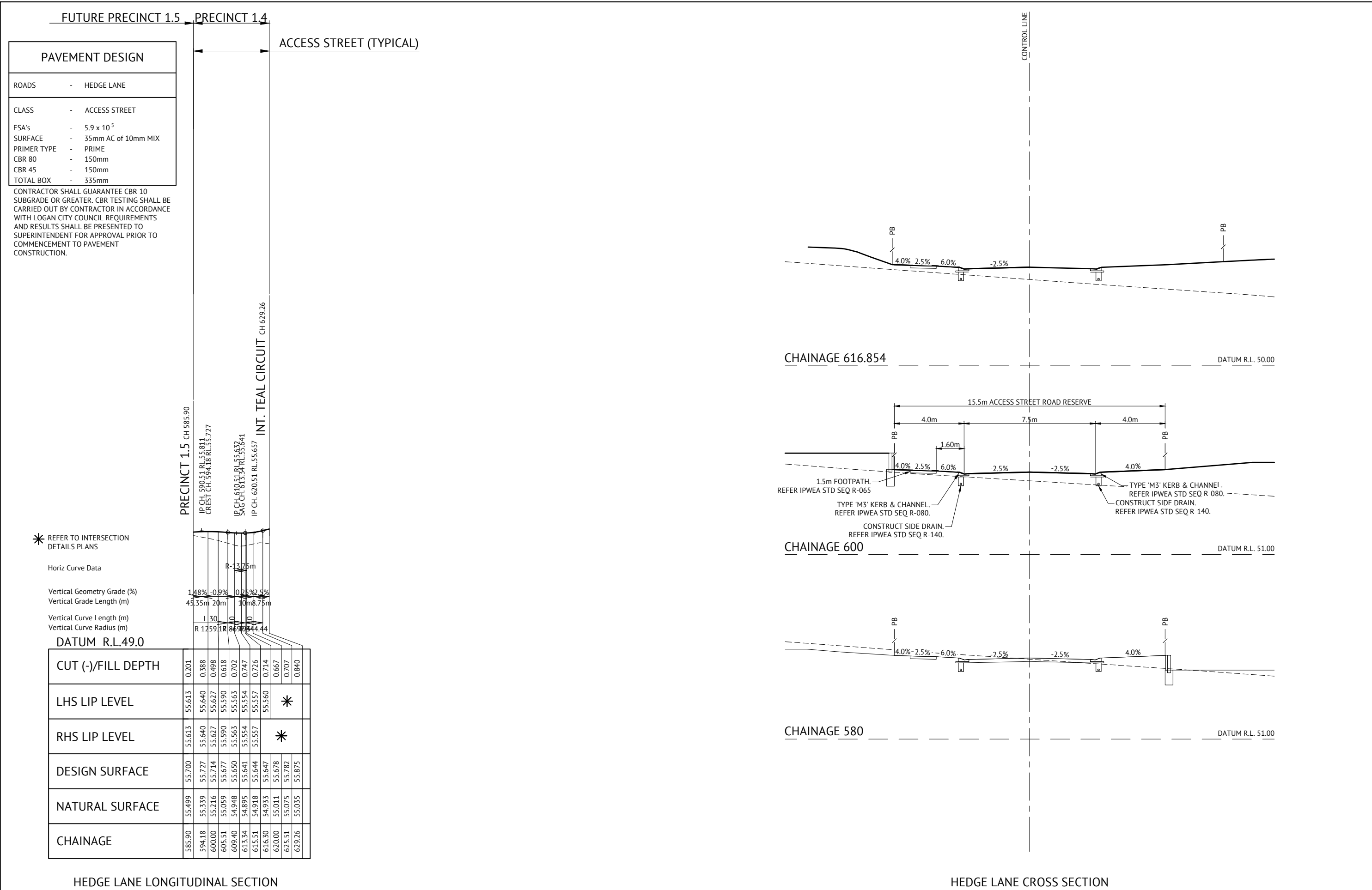
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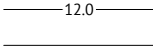
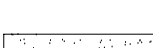
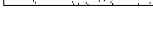
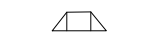
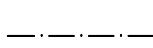

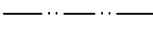
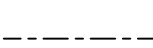

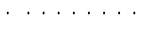
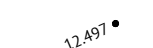

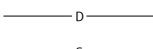
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CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	VERIDIAN ROAD CROSS SECTIONS

JOB CODE	MIR001-04
SHEET NUMBER	C308
REV	C

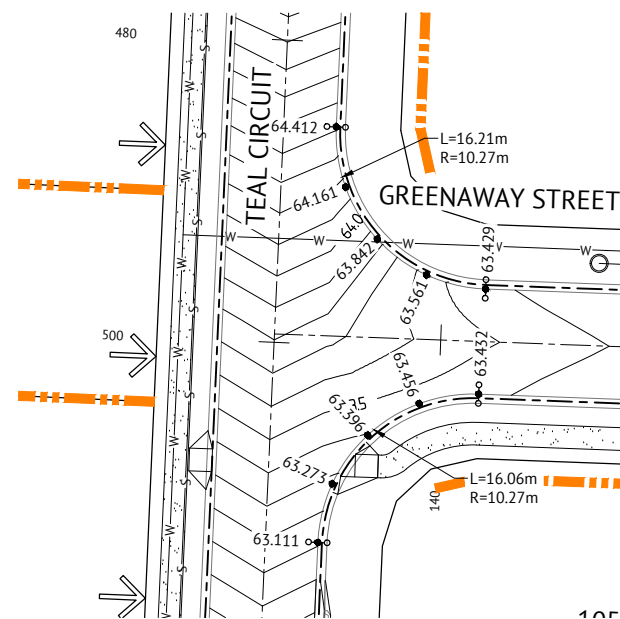


LEGEND

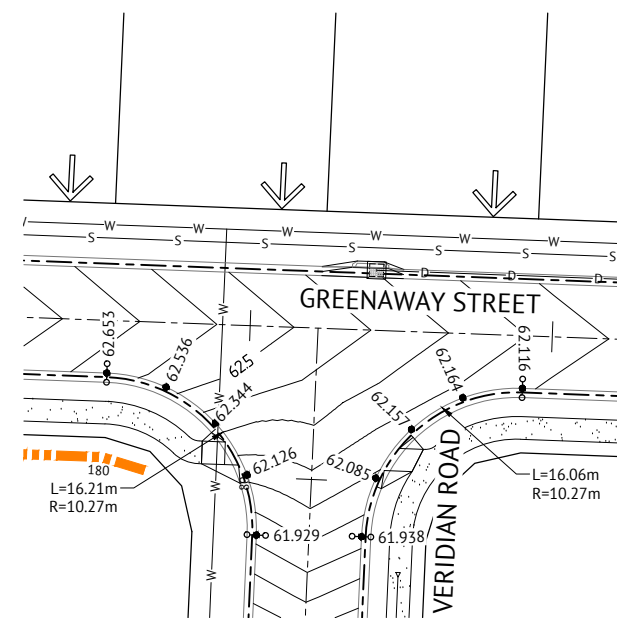
- | | | |
|---|--------|--|
|  | 12.0 | FINISHED MAJOR CONTOURS (0.5m) |
|  | | FINISHED MINOR CONTOURS (0.1m) |
|  | | PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO)
REFER CONC. REQUIREMENTS ON DRG. No. C300 |
|  | | PROPOSED KERB RAMP.
REFER IPWEA STD DWG RS-090. |
|  | | PROPOSED IPWEA STD TYPE 'B1' KERB &
CHANNEL. REFER IPWEA STD DWG RS-080. |
|  | | PROPOSED IPWEA STD TYPE 'B2' KERB
ONLY. REFER IPWEA STD DWG RS-080. |
|  | | PROPOSED IPWEA TYPE 'M3' KERB &
CHANNEL. REFER IPWEA STD DWG RS-080. |
|  | | PROPOSED IPWEA INVERT.
REFER IPWEA STD DWG RS-080. |
|  | 12.497 | LIP OF KERB LEVEL |
|  | | TRANSITION IN KERB AND CHANNEL TYPE |
|  | D | PROPOSED STORMWATER |
|  | S | PROPOSED SEWER |
|  | W | PROPOSED WATER |

EXISTING - LEGEND

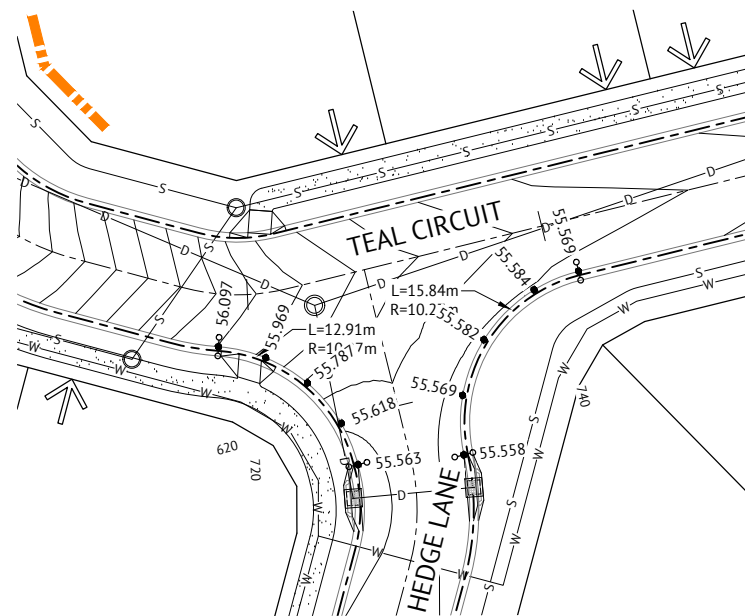
- | | |
|-----------------------|---------------------|
| — — — — D — — — — D — | EXISTING STORMWATER |
| — — — — S — — — — S — | EXISTING SEWER |
| — — — — W — — — — W — | EXISTING WATER |
| — — — — E — — — — E — | EXISTING ELECTRICAL |
| — — — — T — — — — T — | EXISTING TELSTRA |
| — — — — G — — — — G — | EXISTING GAS |



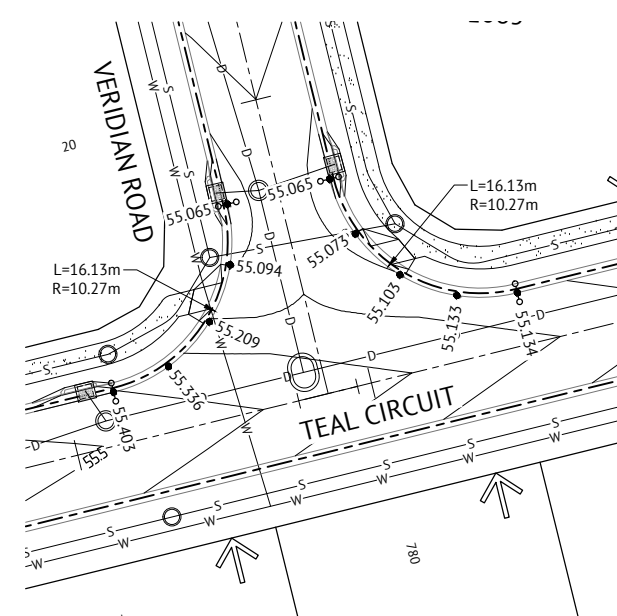
INTERSECTION TEAL CIRCUIT & GREENAWAY STREET



INTERSECTION GREENAWAY STREET & VERIDIAN ROAD







INTERSECTION TEAL CIRCUIT & HEDGE LANE

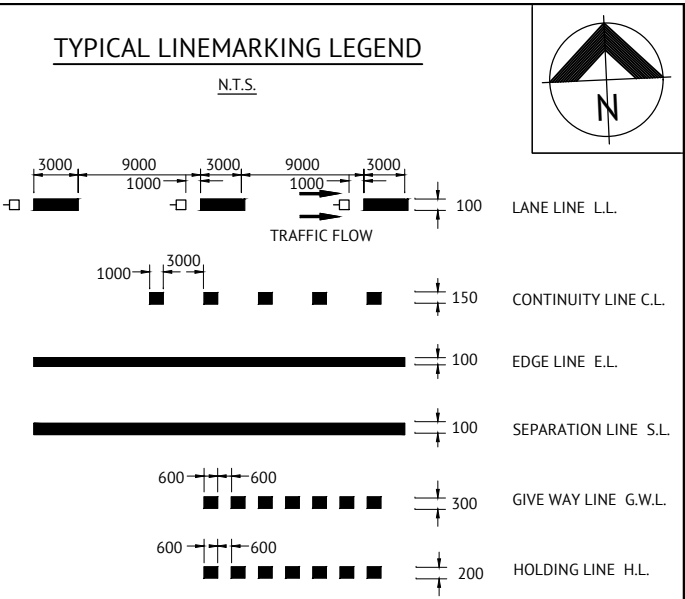
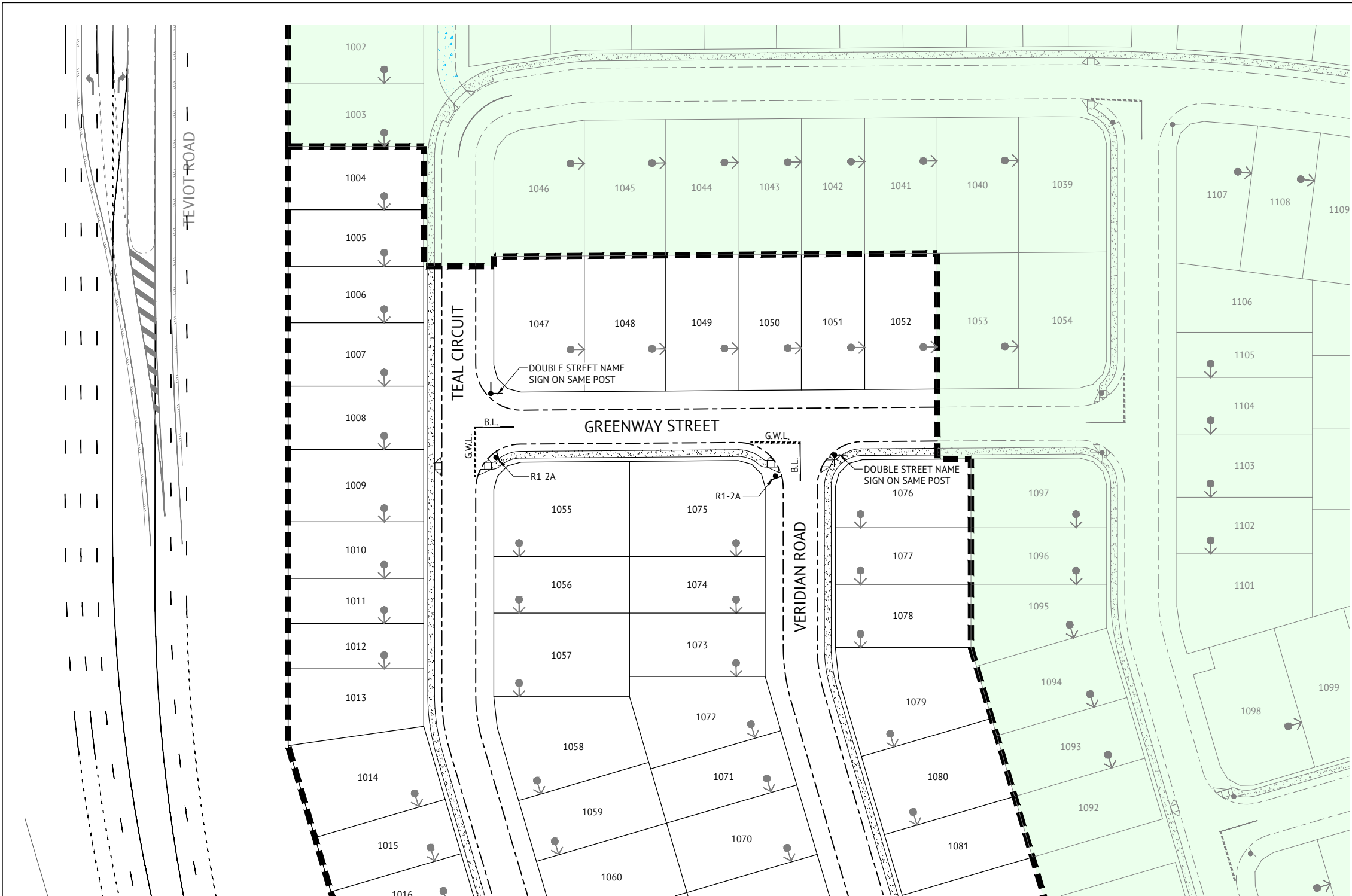


INTERSECTION TEAL CIRCUIT & VERIDIAN ROAD

NOTE

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

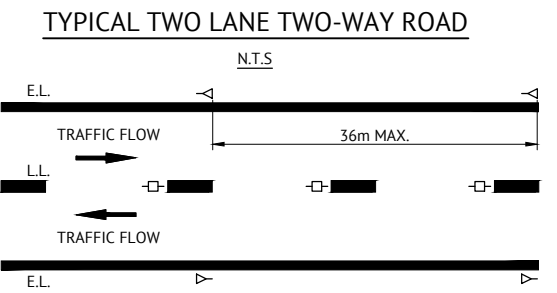
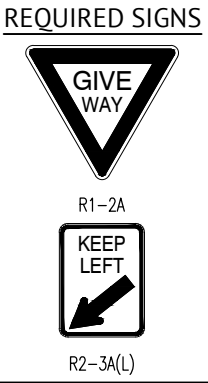
						 <div>BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au</div>		<div>DESIGNEDMICHAEL MAJNZNER</div> <div>CHECKEDMICHAEL MAJNZNER</div> <div>PROJECT MANAGERJOSHUA STONE</div> <div>PROJECT DIRECTORDATE19/12/19</div>		<div>RPEQDATE19/12/19</div> <div>SCALERPEQ 15187</div> <div>051015m SCALE 1:250 (A1)</div>		<div>CLIENTMIRVAC</div> <div>PROJECTEVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</div> <div>LOCATIONTEVIOT ROAD, GREENBANK</div> <div>SHEET TITLEINTERSECTION DETAILS PLAN</div>				JOB CODE MIR001-04	
19/12/19 02/07/18		B A		UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE		JS KH						SHEET NUMBER C310		REV B			
DATE		REV		DESCRIPTION		RPEQ											



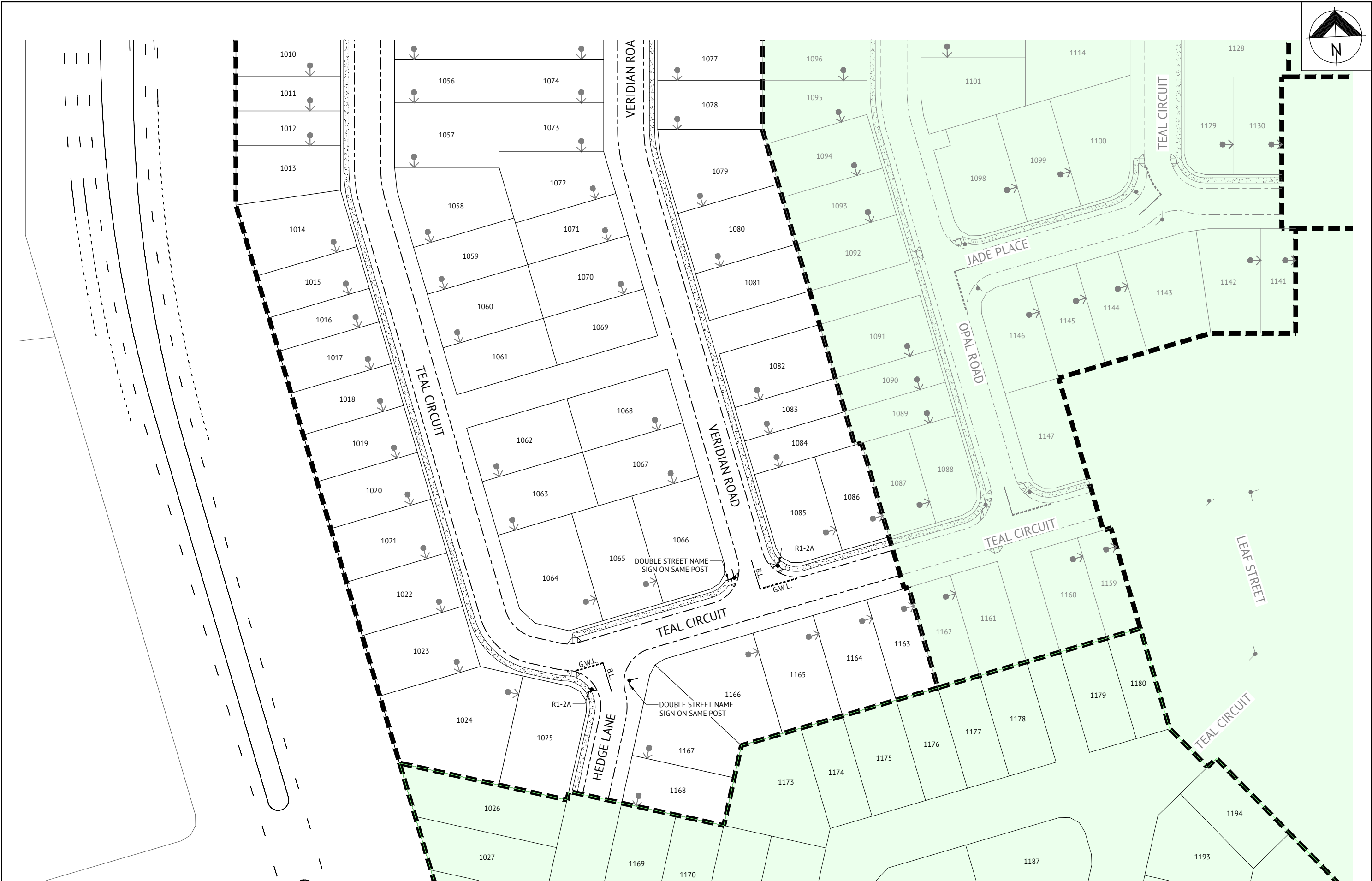
- LINEMARKING NOTES**
- PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS) AND THE SPECIFIC REQUIREMENTS OF REFERENCE SPECIFICATION S150 ROADWORKS. BRISBANE CITY COUNCILS SPECIFIC REQUIREMENTS ARE DETAILED ON STANDARD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

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

- LEGEND**
- STAMPED AC THRESHOLD TREATMENT. REFER TO LANDSCAPE FOR COLOUR AND PATTERN.
- CONCRETE DRIVEWAY
- TACTILE GROUND SURFACE INDICATORS (TGSIs) TO BE INSTALLED AT ALL KERB RAMPS ON MAJOR ROADS IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.1 (2009)



<div>19/12/19 02/07/18</div> <div>B A</div> <div>UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE</div> <div>JS KH</div> <div>RPEQ</div>				<div>BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au</div>		<div>DESIGNED MICHAEL MAJZNER</div> <div>CHECKED MICHAEL MAJZNER</div> <div>PROJECT MANAGER JOSHUA STONE</div> <div>PROJECT DIRECTOR JOSHUA STONE</div> <div>DATE 19/12/19</div>	<div>RPEQ JOSHUA STONE</div> <div>DATE 19/12/19</div> <div>RPEQ 15187</div> <div>SCALE 0 10 20 30m SCALE 1:500 (A1)</div>	<div>CLIENT MIRVAC</div> <div>PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</div> <div>LOCATION TEVIOT ROAD, GREENBANK</div> <div>SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2</div>	<div>JOB CODE MIR001-04</div> <div>SHEET NUMBER C311</div> <div>REV B</div>
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19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ
REVISIONS			



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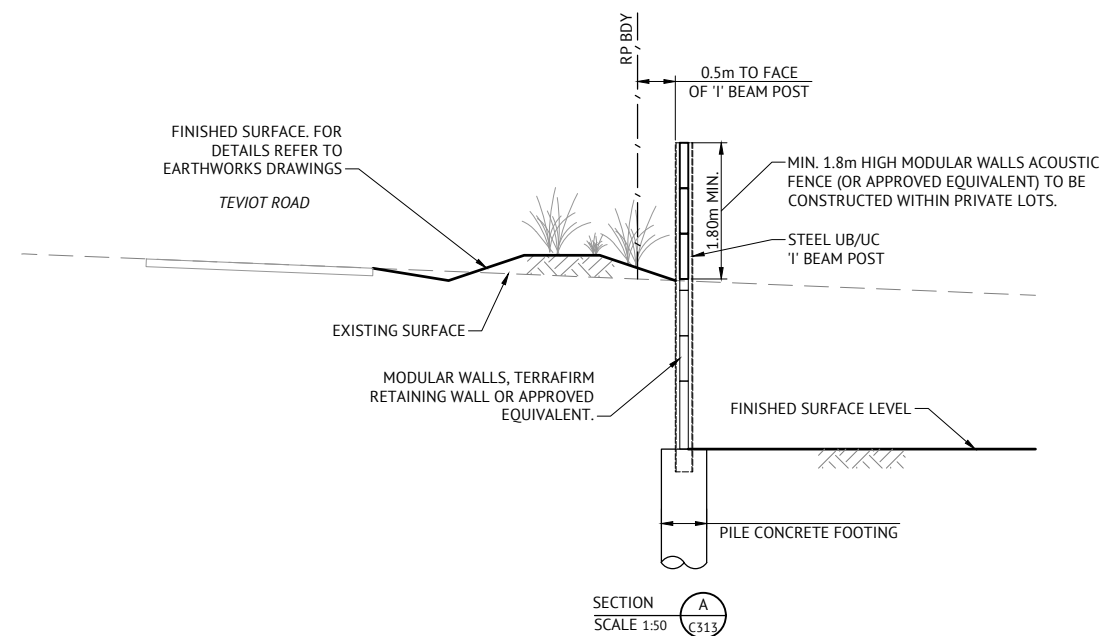
DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR				DATE	19/12/19
			JOSHUA STONE		



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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2

JOB CODE	MIR001-04
SHEET NUMBER	C312
REV	B



THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE ATP CONSULTING ENGINEERS NOISE IMPACT ASSESSMENT, DOCUMENT NO. ATP 150814-R-NIA-03, DATED 24 MAY 2017, AND SUBSEQUENT AMENDMENTS DETAILED IN THE ATP CONSULTING ENGINEERS TECHNICAL MEMORANDUM, DOCUMENT NO. ATP170617-TM-01, DATED 18 AUGUST 2017.

THE PROPOSED ACOUSTIC FENCE SHALL BE CONSTRUCTED AS FOLLOWS:

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

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

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STORMWATER DRAINAGE NOTES

1.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STORMWATER DRAINAGE DRAWINGS
2.

STORMWATER PITS ARE TO BE CONSTRUCTED INSITU IN ACCORDANCE WITH DRAWINGS OR AS VARIED AS NOTED ON THE DRAWING. PREFABRICATED STORMWATER PITS CAN BE USED SUBJECT TO WRITTEN APPROVAL FROM THE SUPERINTENDENT. CLASS D HEAVY DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN TRAFFIC AREAS, CLASS B LIGHT DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
3.

ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
4.

ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
5.

ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR Ø150 & Ø225, AND CLASS 'SN6' FOR Ø100 UNLESS NOTED OTHERWISE.
6.

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.
8.

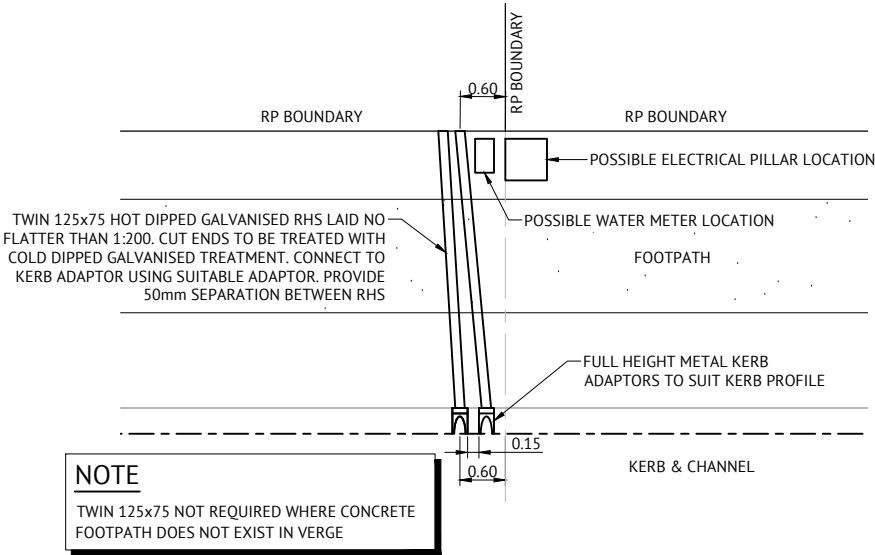
WHERE PIPES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL LOADINGS (e.g. BUILDING FOOTINGS, RETAINING WALLS...etc) THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE.
9.

BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
10.

WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
11.

ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE WORK HEALTH AND SAFETY ACT 2011 AND SUBSEQUENT AMENDMENTS.
12.

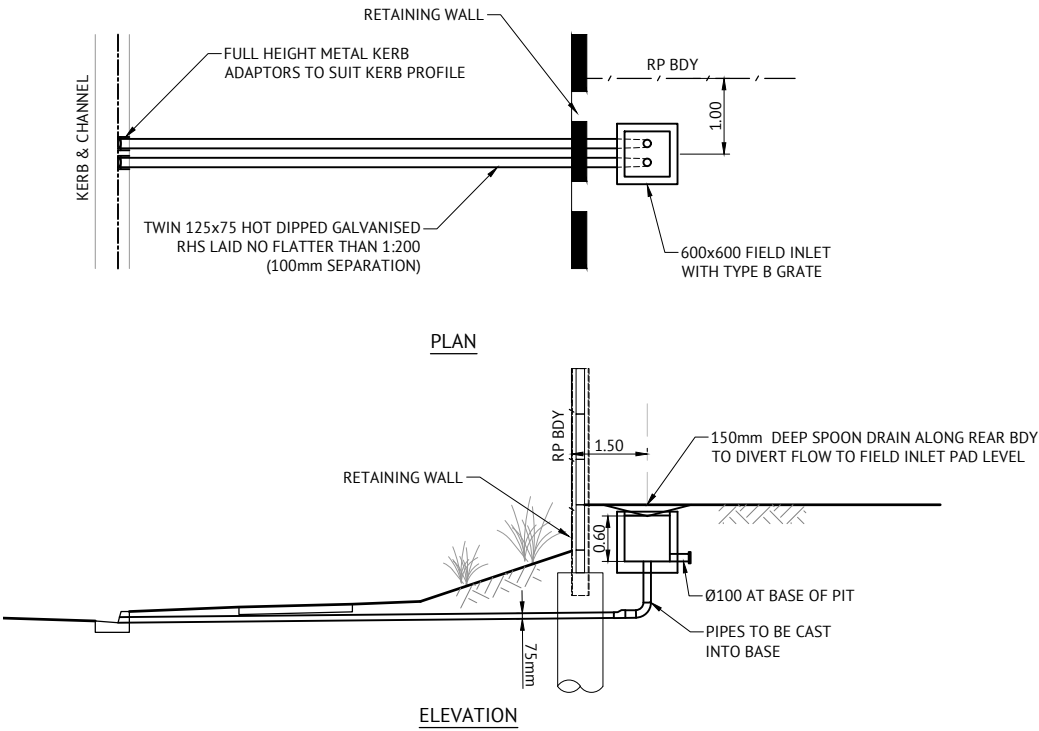
REFER TO LCC STD DWG'S FOR TYPICAL ROOF SLAB REINFORCEMENT DETAILS.



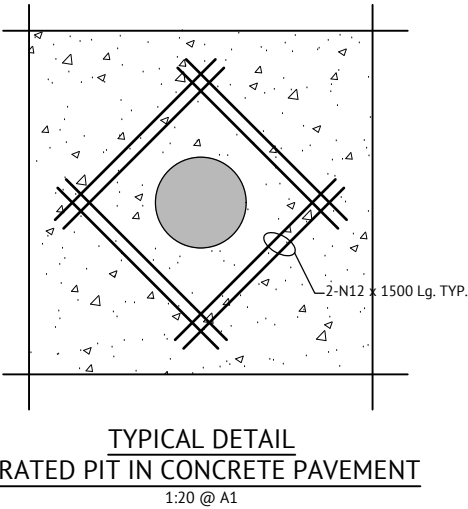
TYPICAL ROOFWATER KERB ADAPTOR
OUTLET DETAIL
N.T.S.

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

STRUCTURE TYPE	HORIZONTAL CONTROL POINT [REFERENCE POINT LOCATION]	VERTICALCONTROL 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




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



TYPICAL DETAIL
GRADED PIT IN CONCRETE PAVEMENT
1:20 @ A1

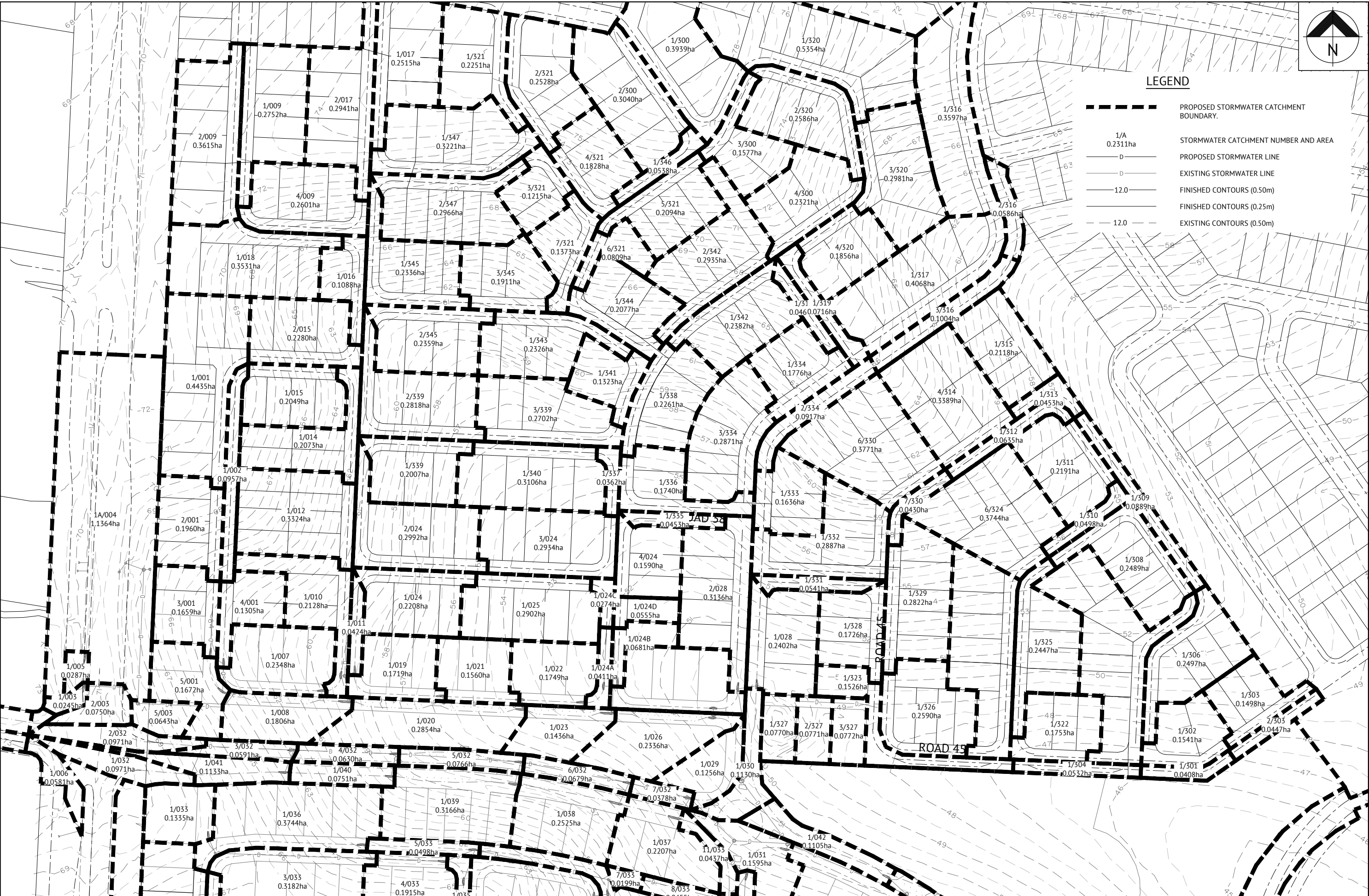
19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
21/09/18	B	MINOR AMENDMENTS TO KERB ADAPTOR OUTLET DETAILS	KH
02/07/18	A	ORIGINAL ISSUE	RPEQ
DATE	REV	DESCRIPTION	REVISIONS













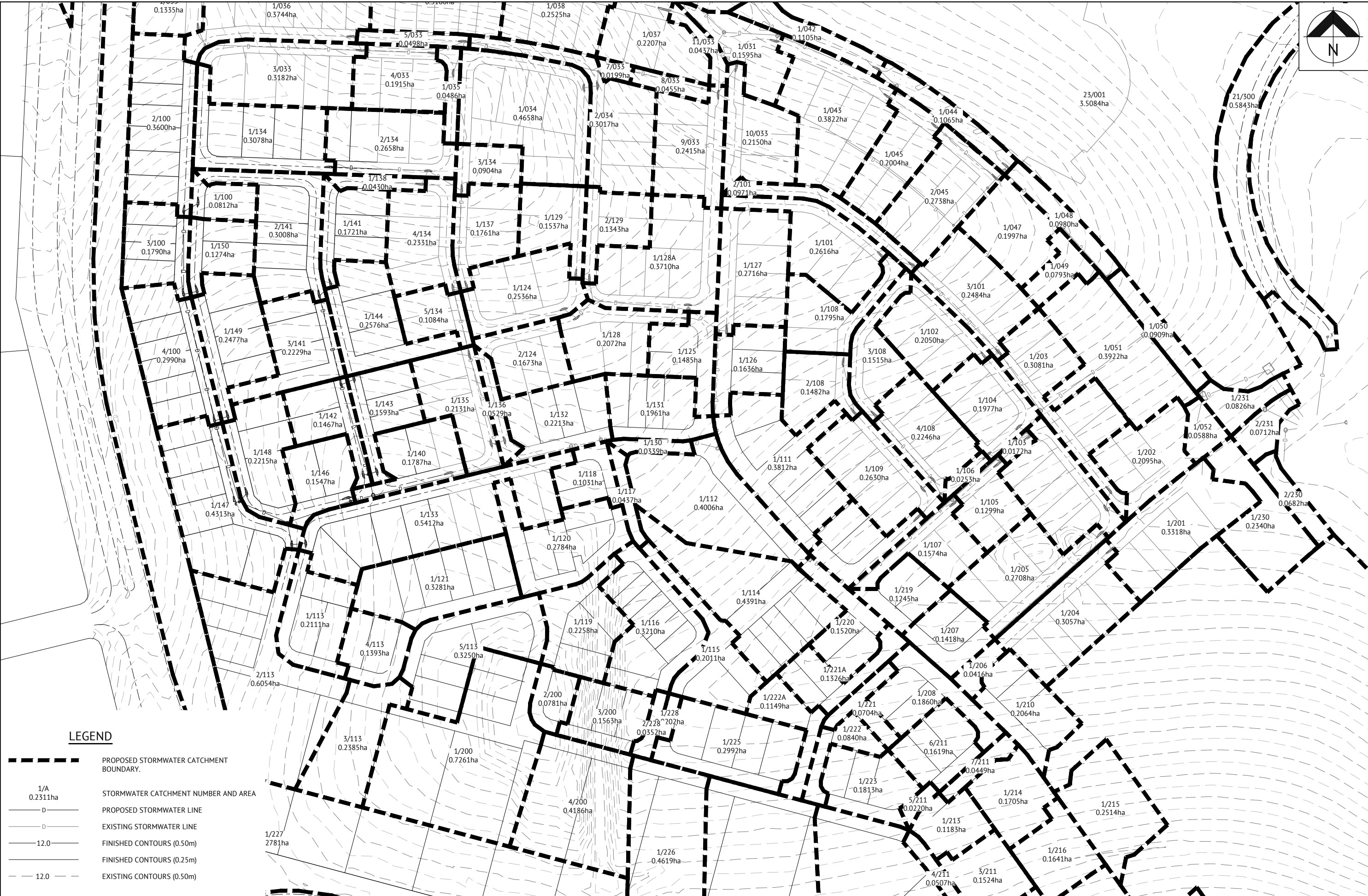
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	JOSHUA STONE	19/12/19
PROJECT MANAGER	JOSHUA STONE	RPEQ 15187	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	19/12/19	0 10 20 30m	SCALE 1:500 (A1)

CLIENT	MIRVAC	JOB CODE	MIR001-04
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C400
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	STORMWATER DRAINAGE DETAILS AND NOTES		

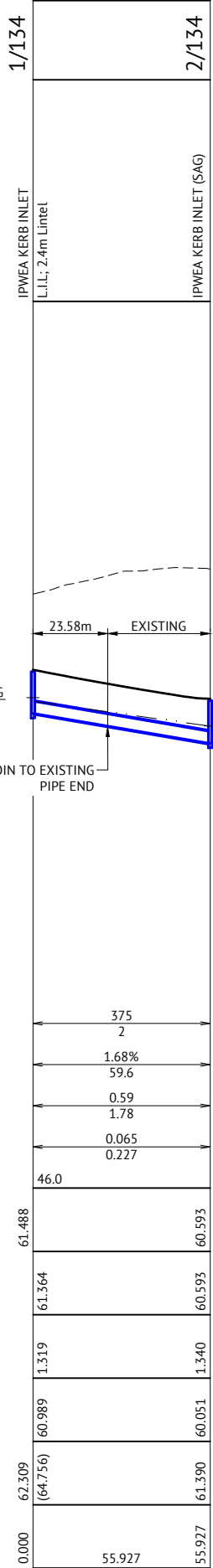


					 Premise		BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au		<table><tr><td>DESIGNED</td><td>MICHAEL MAJZNER</td></tr><tr><td>CHECKED</td><td>MICHAEL MAJZNER</td></tr><tr><td>PROJECT MANAGER</td><td>JOSHUA STONE</td></tr><tr><td>PROJECT DIRECTOR</td><td> DATE 19/12/19</td></tr></table>		DESIGNED	MICHAEL MAJZNER	CHECKED	MICHAEL MAJZNER	PROJECT MANAGER	JOSHUA STONE	PROJECT DIRECTOR	 DATE 19/12/19	<table><tr><td>RPEQ</td><td></td><td>DATE 19/12/19</td></tr><tr><td colspan="3">JOSHUA STONE RPEQ 15187</td></tr><tr><td colspan="3">SCALE</td></tr><tr><td colspan="3"> SCALE 1:1500 (A1)</td></tr></table>		RPEQ		DATE 19/12/19	JOSHUA STONE RPEQ 15187			SCALE			 SCALE 1:1500 (A1)			<table><tr><td>CLIENT</td><td colspan="3">MIRVAC</td></tr><tr><td>PROJECT</td><td colspan="3">EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</td></tr><tr><td>LOCATION</td><td colspan="3">TEVIOT ROAD, GREENBANK</td></tr><tr><td>SHEET TITLE</td><td colspan="3">STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2</td></tr></table>				CLIENT	MIRVAC			PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT			LOCATION	TEVIOT ROAD, GREENBANK			SHEET TITLE	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2			<table><tr><td colspan="2">JOB CODE</td></tr><tr><td colspan="2">MIR001-04</td></tr><tr><td>SHEET NUMBER</td><td>REV</td></tr><tr><td>C401</td><td>B</td></tr></table>		JOB CODE		MIR001-04		SHEET NUMBER	REV	C401	B
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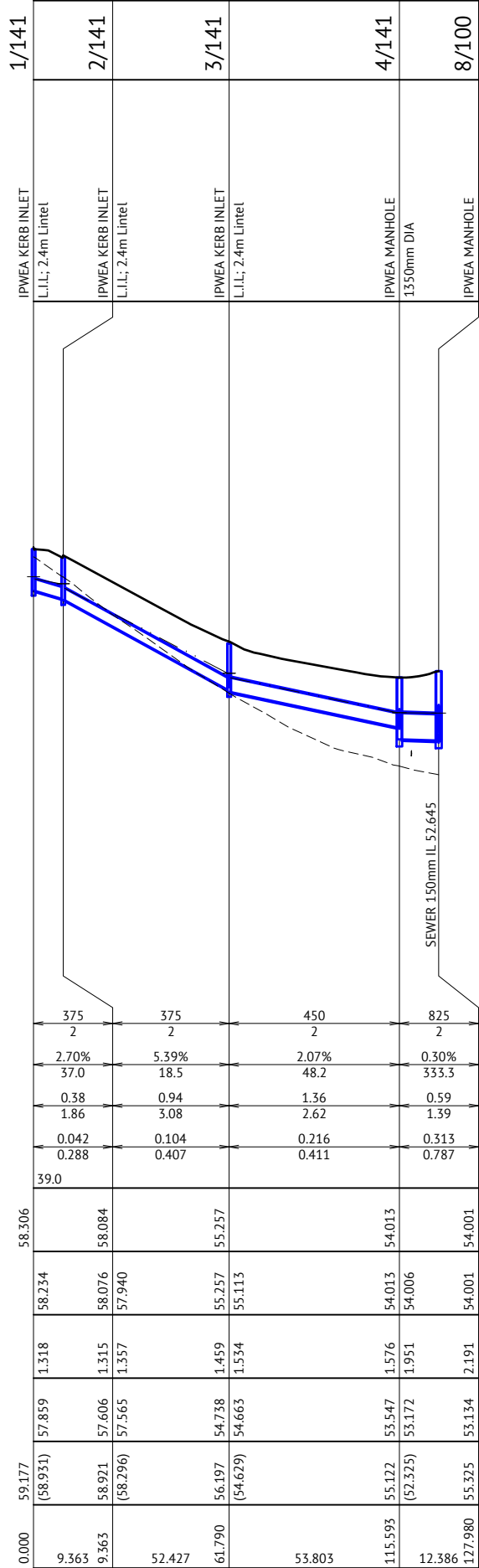


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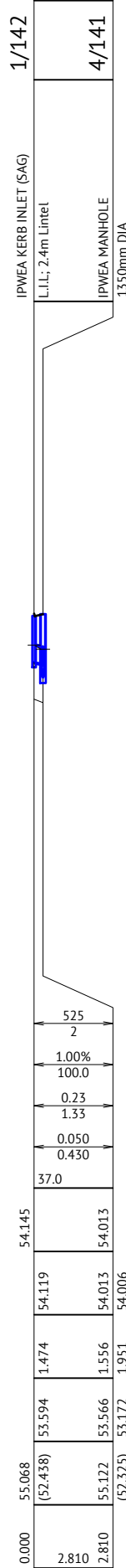
LINE 100



134



141




142



	B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JIS KH
19/12/19 02/07/18	DATE REV	DESCRIPTION	RPEO
REVISIONS			



Premise

BRISBANE OFFICE
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FORTITUDE VALLEY, QLD 4006
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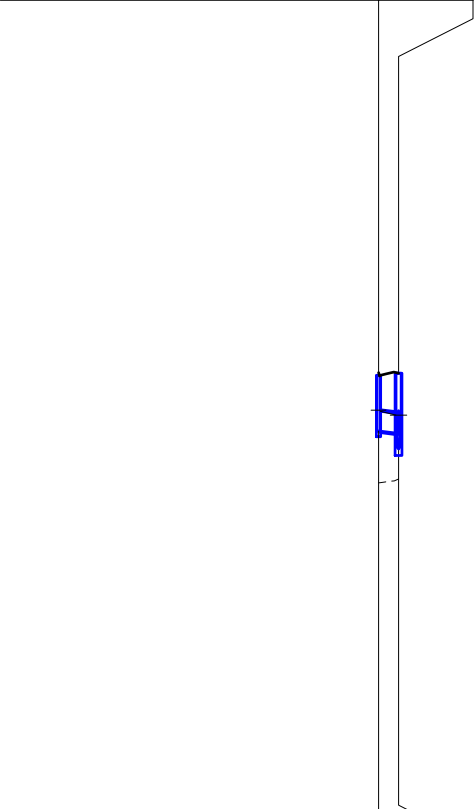
DESIGNED	MICHAEL MAJZNER	
CHECKED	MICHAEL MAJZNER	
PROJECT MANAGER	JOSHUA STONE	
PROJECT DIRECTOR		DATE
JOSHUA STONE		19/12/19

RPEQ DATE <div style="text-align: center; margin-top: 10px;">  JOSHUA STONE </div>	19/12/19 RPEQ 15187
SCALE <div style="text-align: center; margin-top: 10px;">  HORIZONTAL 1:1000 (A1) VERTICAL 1:100 (A1) </div>	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 2

JOB CODE	
MIR001-04	
SHEET NUMBER	REV
C403	B

STRUCTURE NAME	1/143
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel
	4/141
	IPWEA MANHOLE 1350mm DIA

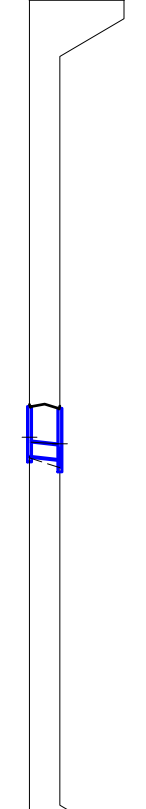


PIPE SIZE (mm)	525
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.34
PIPE FLOW (cumecs)	0.051
PIPE CAPACITY AT GRADE (cumecs)	0.430
DATUM RL	37.0

WSE IN STRUCTURE	54.146
HGL IN PIPE	54.119
DEPTH OF INVERT BELOW FSL	1.474
INVERT LEVEL	53.594
FINISHED (& EXISTING) SURFACE LEVEL	55.068
CHAINAGE	0.000

LINE 143

1/144
IPWEA KERB INLET L.L.L: 2.4m Lintel
3/141
IPWEA KERB INLET L.L.L: 2.4m Lintel

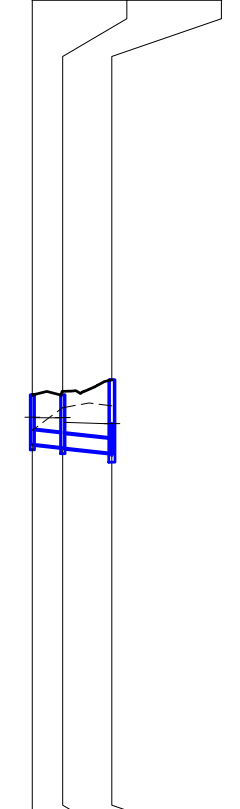


375
2
1.00%
100.0
0.51
1.41
0.056
0.175
39.0

55.429
55.302
55.257
55.113
56.242
(54.881)
54.927
1.315
53.594
55.122
(52.325)
53.541
1.581
54.013
54.006

LINE 144

1/145
IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel
2/145
IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel
6/100
IPWEA MANHOLE 1200mm DIA

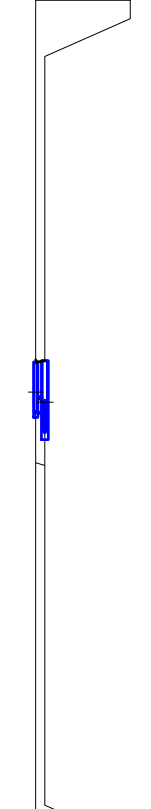


375
2
1.00%
100.0
0.19
1.07
0.021
0.175
38.0

54.959
54.946
54.945
54.824
54.790
55.555
(54.618)
54.246
1.308
53.594
55.068
(52.325)
53.541
1.581
54.013
54.006

LINE 145

1/146
IPWEA KERB INLET L.L.L: 2.4m Lintel
7/100
IPWEA MANHOLE 1350mm DIA

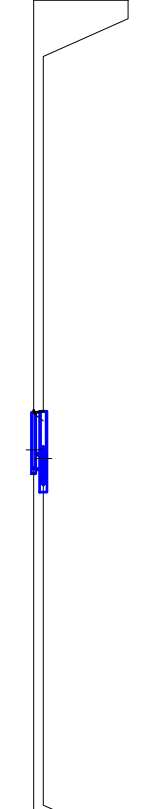


375
2
1.00%
100.5
0.54
1.44
0.060
0.175
37.0

54.625
54.479
54.358
54.343
55.419
(52.748)
54.104
1.315
53.594
55.068
(52.325)
53.541
1.581
54.013
54.006

LINE 146

1/147
IPWEA KERB INLET L.L.L: 2.4m Lintel
5/100
IPWEA MANHOLE 1500mm DIA

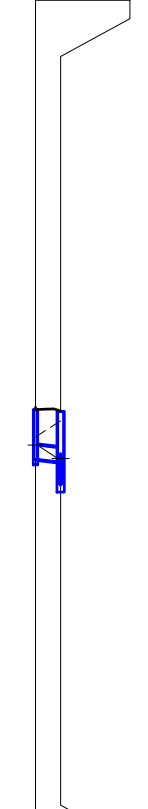


375
2
1.00%
100.0
0.47
1.38
0.052
0.175
40.0

56.098
55.989
55.869
55.803
57.085
(57.063)
55.614
1.471
53.594
55.068
(56.865)
55.203
1.915
54.013
54.006

LINE 147

1/148
IPWEA KERB INLET L.L.L: 2.4m Lintel
5/100
IPWEA MANHOLE 1500mm DIA

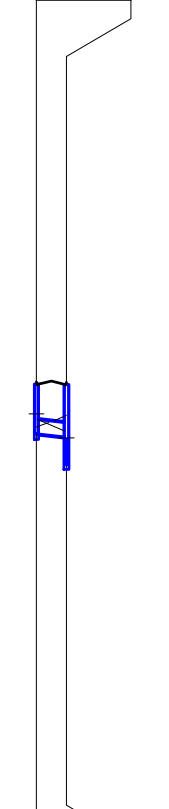


375
2
1.00%
100.0
0.01
0.44
0.001
0.175
40.0

56.224
56.224
55.869
55.803
57.164
(56.433)
55.849
1.315
53.594
55.068
(56.865)
55.203
1.915
54.013
54.006

LINE 148

1/149
IPWEA KERB INLET L.L.L: 2.4m Lintel
4/100
IPWEA KERB INLET ON 1050mm DIA MANHOLE

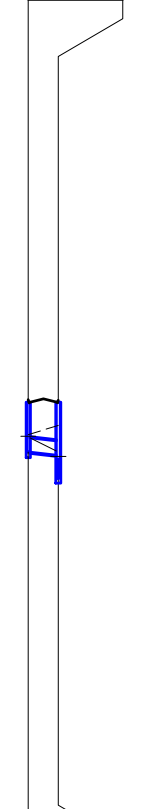


375
2
1.00%
100.0
0.56
1.45
0.062
0.175
40.0

57.050
56.895
56.594
56.330
57.836
(56.702)
56.520
1.315
53.594
55.068
(57.015)
55.730
2.095
54.013
54.006

LINE 149

1/150
IPWEA KERB INLET L.L.L: 2.4m Lintel
3/100
IPWEA KERB INLET ON 1050mm DIA MANHOLE



375
2
1.00%
100.0
0.29
1.21
0.032
0.175
43.0

59.456
59.413
58.924
58.817
60.356
(59.498)
59.038
1.318
53.594
55.068
(59.745)
58.367
1.993
54.013
54.006

LINE 150


19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ



BRISBANE OFFICE
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DESIGNED	MICHAEL MAJZNER
CHECKED	MICHAEL MAJZNER
PROJECT MANAGER	JOSHUA STONE
PROJECT DIRECTOR	JOSHUA STONE

RPEQ



DATE 19/12/19

SCALE








HORIZONTAL 1:1000 (A1)

VERTICAL 1:100 (A1)








CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 2

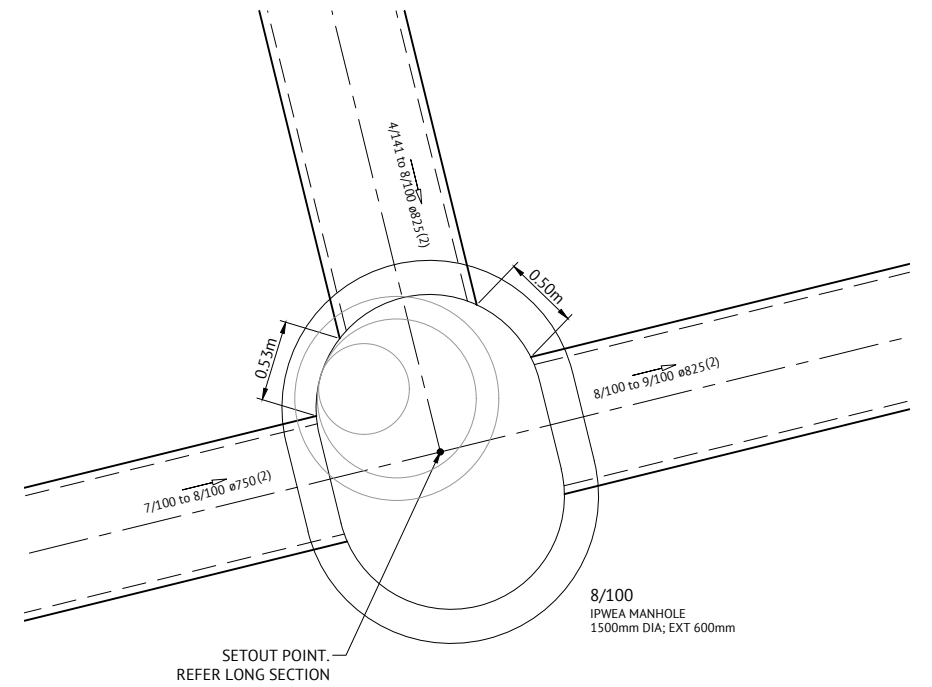
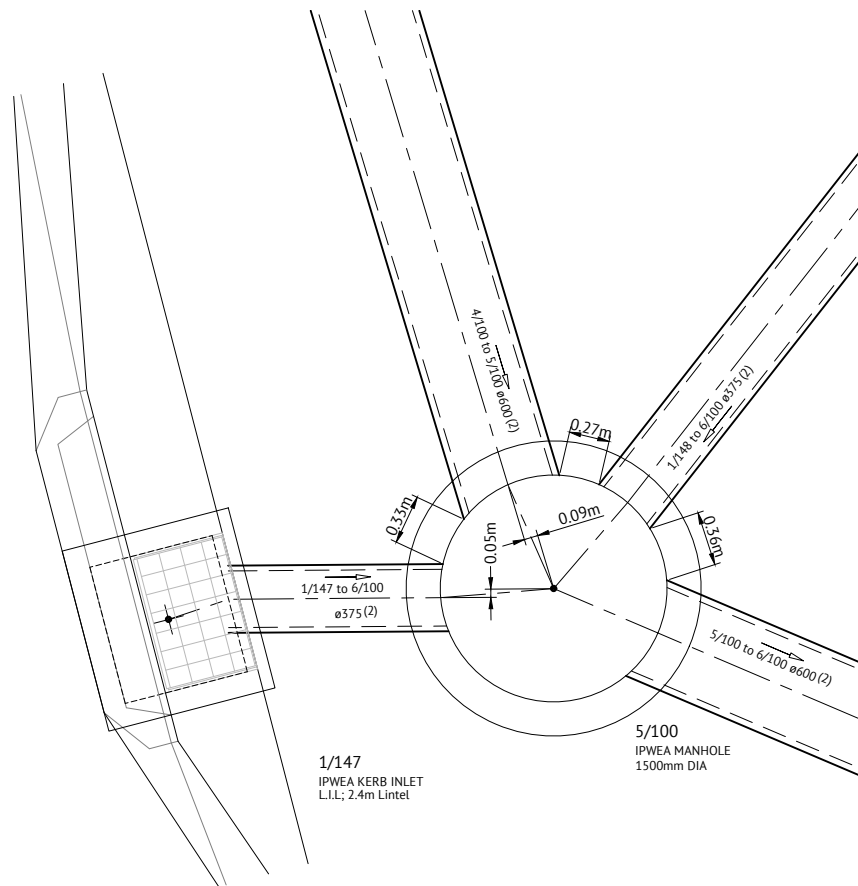
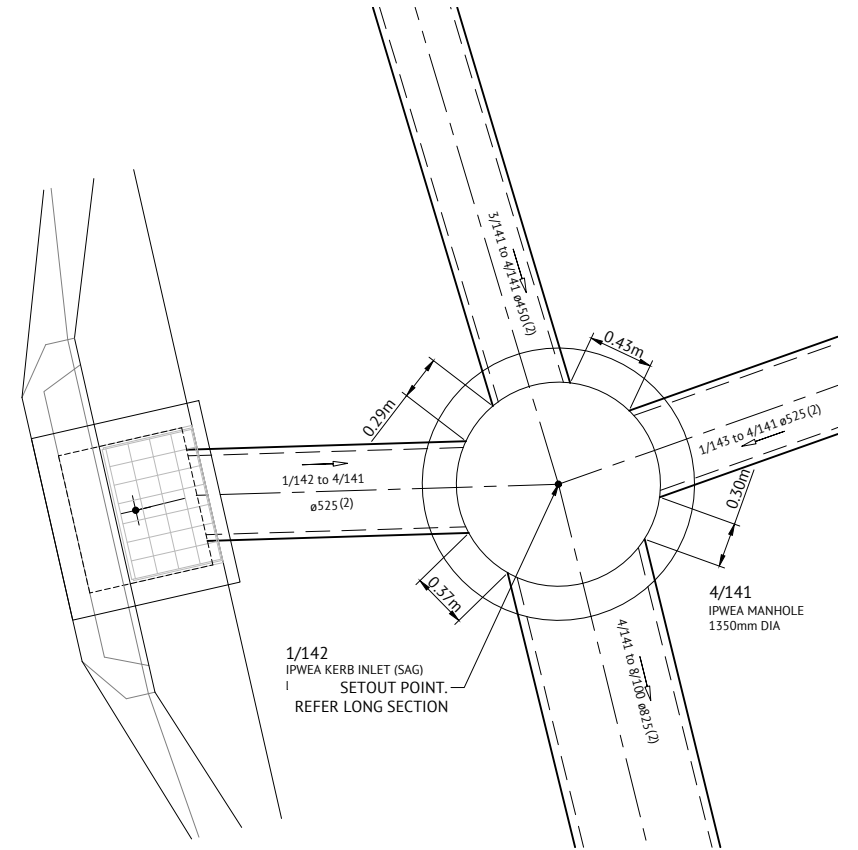
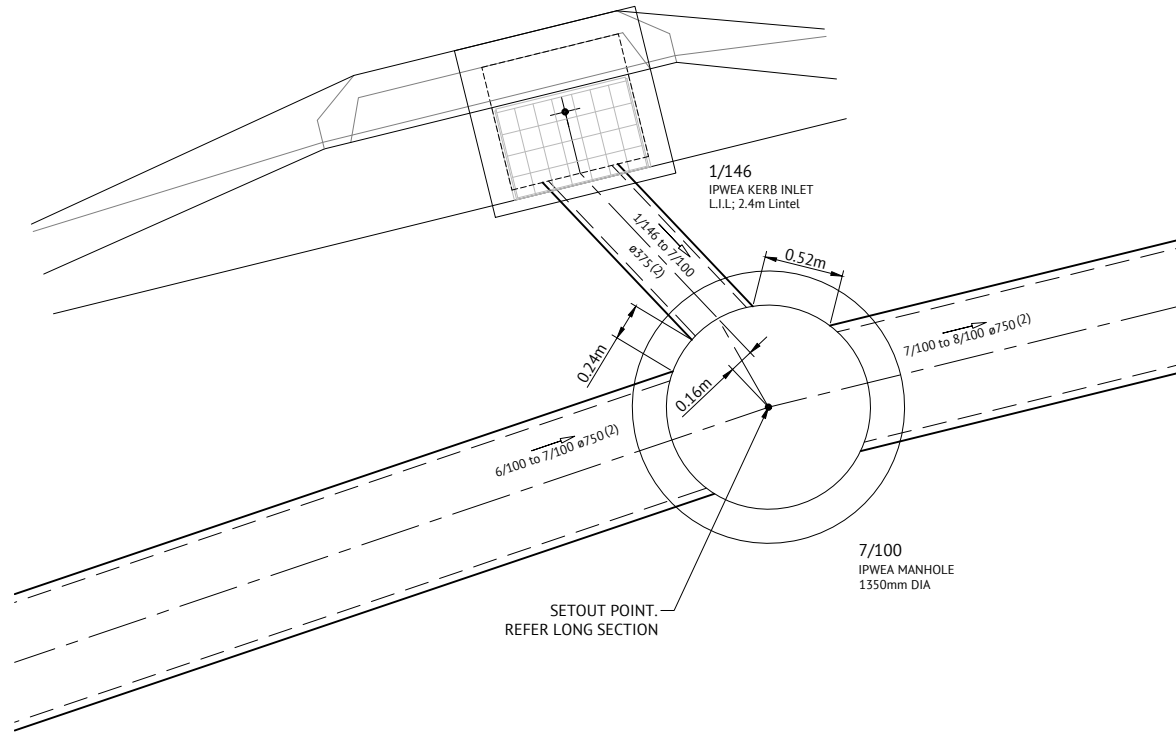
JOB CODE	MIR001-04
SHEET NUMBER	C404
REV	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN								HEADLOSSES												PART FULL		DESIGN LEVELS							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
			SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K & C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min							m	m	m	m/s	m	m	m	m	m	m	m	m	m	m
1/100	2/100	1/100	6	122	0.75	0.081	0.061	21	21	1.373	0.044	4.54	319	21	0	1/150	6	122	0.061	0	21	9.339	2.374	375	2	0.19	0.07	32	1		1.05	0.002	9.7	0.017		0.017	0.82	0.078	0.07	1.44	61.892	61.67	61.892	61.814	61.909	62.835	1/100
2/100	3/100	1/100 2/100	6	122	0.75	0.36	0.269	91	91	2.474	0.071	4.54	325	70	21	3/100	6	122	0.33	0	90	47.646	5.947	375	2	0.82	0.21	32 37 42 43	0.77	1	1.45	0.034	4.79	0.164	4.9	0.168	5.72	2.726	0.117	3.07	61.65	58.817	61.65	58.924	61.818	62.611	2/100
3/100	4/100	1/150 1/100 2/100 3/100	6	122	0.75	0.179	0.134	45	67	2.122	0.061	5	352	56	11	4/100	6.21	121	0.559	0	177	74.761	3.326	450	2	1.12	0.38	34 37	0.31	1	1.24	0.064	1.69	0.107		0.107	3.21	2.402	0.181	2.96	58.817	56.33	58.817	56.415	58.924	60.36	3/100
4/100	5/100	1/149 1/150 1/100 2/100 3/100 4/100	6	122	0.75	0.299	0.224	76	86	3.06	0.084	1.38	177	77	10	1/147	6.59	120	0.968	0	311	48.607	1.043	600	2	1.1	0.37	34 37	0.24	0.98	1.14	0.062	1.37	0.084		0.084	0.95	0.461	0.298	2.21	56.33	55.823	56.33	55.869	56.415	57.825	4/100
5/100	6/100	1/147 1/149 1/150 1/100 2/100 3/100 4/100															6.95	118	1.099	0	358	30.011	3.833	600	2	1.27	0.12	37 42 43	0	1	1.11	0.082	0.8	0.066	0.81	0.066	3.39	1.016	0.225	3.71	55.803	54.653	55.803	54.787	55.87	57.119	5/100
6/100	7/100	1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100															7.07	118	1.367	0	447	38.302	1	750	2	1.01	0.25	37 42 43	0	0.94	1.06	0.052	0.79	0.041	0.84	0.044	1.01	0.388	0.33	2.38	54.746	54.363	54.746	54.358	54.79	55.95	6/100
7/100	8/100	1/146 1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100															7.2	117	1.537	0	500	13.456	1	750	2	1.13	0.09	33 34	0	1	1.02	0.065	0.24	0.015		0.015	2.55	0.299	0.352	2.45	54.343	54.208	54.343	54.001	54.358	55.455	7/100
8/100	9/100	1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100															6.91	118	2.446	0	804	46.839	0.8	825	2	1.5	0.32	34 37	0	1	1.07	0.115	0.53	0.061		0.061	0.76	0.356	0.473	2.54	53.939	53.565	53.939	53.583	54.001	55.325	8/100
9/100																																											53.583	54.855	9/100		
1/134	2/134	1/134	6	122	0.75	0.308	0.23	78	78	2.757	0.077	1.96	210	65	13	2/134	6	122	0.23	0	65	55.927	1.678	375	2	0.59	0.45	32	1		1.33	0.018	7	0.124		0.124	1.38	0.772	0.137	1.78	61.364	60.426	61.364	60.593	61.488	62.309	1/134
2/134																											32 34 37																60.593	61.39	2/134		
1/141	2/141	1/141	6	122	0.75	0.172	0.129	44	44	2.17	0.05	5.41	211	42	1	1/144	6	122	0.129	0	42	9.235	2.738	375	2	0.38	0.06	32	1		1.19	0.007	9.7	0.072		0.072	1.69	0.158	0.097	1.86	58.234	57.981	58.234	58.076	58.306	59.177	1/141
2/141	3/141	1/141 2/141	6	122	0.75	0.301	0.225	76	76	2.229	0.065	5.41	354	62	15	3/141	6.06	122	0.354	0	104	52.427	5.392	375	2	0.94	0.24	32 37 42 43	0.59	1	1.38	0.045	3.04	0.136	3.22	0.144	5.12	2.682	0.129	3.08	57.94	55.113	57.94	55.257	58.084	58.921	2/141
3/141	4/141	1/144 1/141 2/141 3/141	6	122	0.75	0.223	0.167	57	71	2.363	0.068	3.53	285	59	13	1/142	6.24	121	0.712	0	216	53.803	2.075	450	2	1.36	0.35	34 37	0.27	1	1.32	0.094	1.53	0.144		0.144	2.04	1.1	0.232	2.62	55.113	53.997	55.113	54.013	55.257	56.197	3/141
4/141	8/100	1/142 1/143 1/144 1/141 2/141 3/141															6.58	120	0.941	0	313	12.386	0.3	825	2	0.59	0.14	34 37	0	1	1.02	0.017	0.38	0.007		0.007	0.05	0.006	0.362	1.39	53.997	53.959	54.006	54.001	54.013	55.122	4/141
1/142	4/141	1/142	6	122	0.75	0.147	0.11	37	50		0.007	0.86	375	50	0	1/143	6	122	0.11	0	50	2.801	1.003	525	2	0.23	0.02	32	1		1.05	0.003	9.7	0.026		0.026	3.77	0.105	0.121	1.33	54.119	54.091	54.119	54.013	54.145	55.068	1/142
1/143	4/141	1/143	6	122	0.75	0.159	0.119	40	51		0.008	0.86	375	51	0	1/140	6	122	0.119	0	51	5.284	1	525	2	0.24	0.04	32	1		1.05	0.003	9.7	0.028		0.028	2	0.105	0.122	1.34	54.119	54.066	54.119	54.013	54.146	55.068	1/143
1/144	3/141	1/144	6	122	0.75	0.258	0.193	65	67	2.316	0.066	4.69	282	56	11	1/143	6	122	0.193	0	56	8.035	1.001	375	2	0.51	0.08	32	1		1.34	0.013	9.7	0.128		0.128	0.55	0.045	0.146	1.41	55.302	55.221	55.302	55.257	55.429	56.242	1/144
1/145	2/145	1/145	6	122	0.75	0.082	0.061	21	21		0	0.19	375	21	0	1/133	6	122	0.061	0	21	8.025	1	375	2	0.19	0.08	32	1		1.9	0.002	7.53	0.014		0.014	0.01	0.001	0.087	1.07	54.621	54.541	54.946	54.945	54.959	55.555	1/145
2/145	6/100	1/145 2/145	6	122	0.75	0.276	0.206	70	73		0.023	0.46	375	73	0	1/145	6.08	122	0.267	0	93	13.01	1	375	2	0.84	0.14	32 42 46 43 47	0.78	1	2.15	0.036	3.34	0.121	3.51	0.127	0.28	0.037	0.194	1.61	54.521	54.391	54.824	54.787	54.951	55.555	2/145
1/146	7/100	1/146	6	122	0.75	0.237	0.177	60	60	2.892	0.08	0.85	143	60	0	1/142	6	122	0.177	0	60	2.371	1.015	375	2	0.54	0.03	32	1		1.39	0.015	9.7	0.146		0.146	5	0.112	0.151	1.44	54.479	54.455	54.479	54.358	54.625	55.419	1/146
1/147	5/100	1/147	6	122	0.75	0.175	0.131	44	54	2.474	0.066	2.28	190	52	3	2/145	6	122	0.131	0	52	2.555	1.006	375	2	0.47	0.03	32	1		1.29	0.011	9.7	0.109		0.109	4.66	0.114	0.14	1.38	55.989	55.963	55.989	55.869	56.098	57.085	1/147
1/148	5/100		0	0		0	0	0	1	0.288	0.018	1.87																																			

								BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au		<table><tr><td>DESIGNED</td><td>MICHAEL MAJZNER</td></tr><tr><td>CHECKED</td><td>MICHAEL MAJZNER</td></tr><tr><td>PROJECT MANAGER</td><td>JOSHUA STONE</td></tr><tr><td>PROJECT DIRECTOR</td><td> DATE 19/12/19</td></tr><tr><td colspan="2">JOSHUA STONE</td></tr></table>		DESIGNED	MICHAEL MAJZNER	CHECKED	MICHAEL MAJZNER	PROJECT MANAGER	JOSHUA STONE	PROJECT DIRECTOR	 DATE 19/12/19	JOSHUA STONE		<table><tr><td>RPEQ</td><td></td><td>DATE 19/12/19</td></tr><tr><td colspan="3">JOSHUA STONE RPEQ 15187</td></tr><tr><td colspan="3">SCALE</td></tr></table>		RPEQ		DATE 19/12/19	JOSHUA STONE RPEQ 15187			SCALE			<table><tr><td>CLIENT</td><td colspan="3">MIRVAC</td></tr><tr><td>PROJECT</td><td colspan="3">EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</td></tr><tr><td>LOCATION</td><td colspan="3">TEVIOT ROAD, GREENBANK</td></tr><tr><td>SHEET TITLE</td><td colspan="3">Q2 MINOR STORM CALCULATIONS</td></tr></table>				CLIENT	MIRVAC			PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT			LOCATION	TEVIOT ROAD, GREENBANK			SHEET TITLE	Q2 MINOR STORM CALCULATIONS			<table><tr><td colspan="2">JOB CODE</td></tr><tr><td colspan="2">MIR001-04</td></tr><tr><td>SHEET NUMBER</td><td>REV</td></tr><tr><td>C405</td><td>B</td></tr></table>		JOB CODE		MIR001-04		SHEET NUMBER	REV	C405	B
DESIGNED	MICHAEL MAJZNER																																																													
CHECKED	MICHAEL MAJZNER																																																													
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REVISIONS																																																														

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES												PART FULL		DESIGN LEVELS								RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn													
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER		
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min									%	m	m	m/s	m	m	m	m	m	m	m	l/s	l/s			
1/100	2/100	1/100	6	275	1	0.081	0.081	62	62	4.54	53	9	1/150	6	275	0.081	0	53	9.339	2.374	375	2	0.48	0.07	32	1		1.91	0.012	7.47	0.088		0.088	0.09	0.009	0.113	1.89	61.892	61.67	62.146	62.137	62.234	62.835	1631	62	1/100		
2/100	3/100	1/100 2/100	6	275	1	0.36	0.36	275	275	4.54	148	127	3/100	6	275	0.44	0	200	47.646	5.947	375	2	1.81	0.21	32 37 42 43	0.74	1	2.32	0.168	2.9	0.487	2.94	0.494	4.87	2.318	0.18	3.81	61.65	58.817	61.65	59.332	62.144	62.611	1631	275	2/100		
3/100	4/100	1/150 1/100 2/100 3/100	6	275	1	0.179	0.179	137	264	5	144	120	4/100	6.21	273	0.747	0	416	74.761	3.326	450	2	2.62	0.38	34 37	0.34	1	2.14	0.349	1.47	0.515		0.515	2.2	1.643	0.305	3.63	58.817	56.33	58.817	57.174	59.332	60.36	1607	264	3/100		
4/100	5/100	1/149 1/150 1/100 2/100 3/100 4/100	6	275	1	0.299	0.299	228	348	1.38	200	148	1/147	6.59	268	1.294	0	668	48.607	1.043	600	2	2.36	0.37	33 34	0.29	0.98	2.41	0.284	1.15	0.326		0.326	1.18	0.574	0.539	2.5	56.33	55.823	56.849	56.274	57.174	57.825	1904	348	4/100		
5/100	6/100	1/147 1/149 1/150 1/100 2/100 3/100 4/100												6.95	264	1.469	0	906	30.011	3.833	600	2	3.21	0.12	37 42 43	0	1	1.8	0.524	0.9	0.471	0.91	0.48	3.02	0.907	0.389	4.67	55.803	54.653	55.803	54.896	56.283	57.119	0		5/100		
6/100	7/100	1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100												6.95	264	1.817	0	891	38.302	1	750	2	2.02	0.25	34 37	0	0.94	1.2	0.208	0.55	0.114		0.114	0.64	0.245	0.508	2.8	54.746	54.363	54.782	54.537	54.896	55.95	0		6/100		
7/100	8/100	1/146 1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100												7.2	261	2.054	0	978	13.456	1	750	2	2.21	0.09	33 34	0	1	1.26	0.25	0.23	0.058		0.058	0.77	0.104	0.545	2.84	54.343	54.208	54.479	54.375	54.537	55.455	0		7/100		
8/100	9/100	1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/145 2/145 1/147 1/149 1/150 1/100 2/100 3/100 4/100												6.91	264	3.268	0	1422	46.839	0.8	825	2	2.66	0.32	34 37	0	1	1.53	0.361	0.41	0.149		0.149	0.98	0.459	0.825	2.66	53.939	53.565	54.225	53.766	54.375	55.325	0		8/100		
9/100																																													9/100			
1/134	2/134	1/134	6	275	1	0.308	0.308	235	235	1.96	140	95	2/134	6	275	0.308	0	140	55.927	1.678	375	2	1.27	0.45	32	1		2.34	0.082	4.08	0.334		0.334	0.64	0.356	0.213	2.16	61.364	60.426	61.534	61.178	61.869	62.309	1815	235	1/134		
2/134																																													2/134			
1/141	2/141	1/141	6	275	1	0.172	0.172	131	131	5.41	92	40	1/144	6	275	0.172	0	92	9.235	2.738	375	2	0.83	0.06	32	1		2.13	0.035	6.46	0.226		0.226	0.27	0.025	0.145	2.32	58.234	57.981	58.431	58.405	58.657	59.177	1607	131	1/141		
2/141	3/141	1/141 2/141	6	275	1	0.301	0.301	230	230	5.41	132	98	3/141	6.06	274	0.473	0	222	52.427	5.392	375	2	2.01	0.24	32 37 42 43	0.59	1	2.28	0.207	2.25	0.466	2.31	0.478	4.5	2.361	0.198	3.77	57.94	55.113	57.94	55.579	58.418	58.921	1607	230	2/141		
3/141	4/141	1/144 1/141 2/141 3/141	6	275	1	0.223	0.223	170	268	3.53	95	173	1/142	6.24	272	0.952	0	362	53.803	2.075	450	2	2.28	0.35	33 34	0.26	1	2.04	0.264	1.18	0.312		0.312	1.61	0.867	0.328	2.91	55.113	53.997	55.266	54.399	55.579	56.197	1680	268	3/141		
4/141	8/100	1/142 1/143 1/144 1/141 2/141 3/141												6.58	268	1.258	0	471	12.386	0.3	825	2	0.88	0.14	34	0	1	1.49	0.04	0.28	0.011		0.011	0.11	0.013	0.46	1.54	53.997	53.959	54.388	54.375	54.399	55.122	0		4/141		
1/142	4/141	1/142	6	275	1	0.147	0.147	112	400	0.86	63	336	1/143	6	275	0.147	0	63	2.801	1.003	525	2	0.29	0.02	32	1		1.61	0.004	9.11	0.04		0.04	0.02	0.001	0.136	1.42	54.119	54.091	54.4	54.399	54.439	55.068	0	400	1/142		
1/143	4/141	1/143	6	275	1	0.159	0.159	122	642	0.86	62	580	1/140	6	275	0.159	0	62	5.284	1	525	2	0.29	0.04	32	1		1.61	0.004	9.1	0.039		0.039	0.02	0.001	0.135	1.42	54.119	54.066	54.4	54.399	54.439	55.068	1968	642	1/143		
1/144	3/141	1/144	6	275	1	0.258	0.258	197	237	4.69	52	184	1/143	6	275	0.258	0	52	8.035	1.001	375	2	0.47	0.08	32	1		1.98	0.011	7.13	0.082		0.082	0.09	0.007	0.141	1.39	55.302	55.221	55.586	55.579	55.668	56.242	2012	237	1/144		
1/145	2/145	1/145	6	275	1	0.082	0.082	62	399	0.19	3	396	1/133	6	275	0.082	0	3	8.025	1	375	2	0.03	0.08	32	1		3.49	0	3.27	0		0	0	0	0.034	0.6	54.621	54.541	55.555	55.555	55.555	55.555		399	1/145		
2/145	6/100	1/145 2/145	6	275	1	0.276	0.276	211	336	0.46	0	336	1/145	6	275	0.356	0	2	13.01	1	375	2	0.02	0.14	42 46 43 47	0	1	2	0	1.84	0	2.17	0	0	0	0.026	0.5	54.521	54.391	54.896	54.896	54.896	55.555		336	2/145		
1/146	7/100	1/146	6	275	1	0.237	0.237	181	225	0.85	110	115	1/142	6	275	0.237	0	110	2.371	1.015	375	2	1	0.03	32	1		2.08	0.051	6.66	0.338		0.338	0.39	0.01	0.216	1.67	54.479	54.455	54.547	54.537	54.884	55.419	2418	225	1/146		
1/147	5/100	1/147	6	275	1	0.175	0.175	134	282	2.28	157	125	2/145	6	275	0.175	0	157	2.555	1.006	375	2	1.42	0.03	32	1		2.91	0.103	3.99	0.411		0.411	0.8	0.021	0.277	1.8	55.989	55.963	56.295	56.274	56.706	57.085	0	282	1/147		
1/148	5/100		0	0		0	0	0	147	1.87	103	44	1/146	1	404	0	0	103	6.566	1.013	375	2	0.93	0.07	32	1		2.02	0.044	6.93	0.307		0.307	0.34	0.023	0.207	1.65	56.224	56.157	56.297	56.274	56.605	57.164	1	147	1/148		
1/149	4/100	1/149	6	275	1	0.248	0.248	189	219	1.38	72	147	1/148																																			

								BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au		<table><tr><td>DESIGNED</td><td>MICHAEL MAJZNER</td></tr><tr><td>CHECKED</td><td>MICHAEL MAJZNER</td></tr><tr><td>PROJECT MANAGER</td><td>JOSHUA STONE</td></tr><tr><td>PROJECT DIRECTOR</td><td> DATE 19/12/19</td></tr><tr><td colspan="2">JOSHUA STONE</td></tr></table>		DESIGNED	MICHAEL MAJZNER	CHECKED	MICHAEL MAJZNER	PROJECT MANAGER	JOSHUA STONE	PROJECT DIRECTOR	 DATE 19/12/19	JOSHUA STONE		<table><tr><td>RPEQ</td><td></td><td>DATE 19/12/19</td></tr><tr><td colspan="3">JOSHUA STONE RPEQ 15187</td></tr><tr><td colspan="3">SCALE</td></tr></table>		RPEQ		DATE 19/12/19	JOSHUA STONE RPEQ 15187			SCALE			<table><tr><td colspan="2">CLIENT</td><td colspan="4">MIRVAC</td></tr><tr><td colspan="2">PROJECT</td><td colspan="4">EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</td></tr><tr><td colspan="2">LOCATION</td><td colspan="4">TEVIOT ROAD, GREENBANK</td></tr><tr><td colspan="2">SHEET TITLE</td><td colspan="4">Q100 MAJOR STORM CALCULATIONS</td></tr></table>						CLIENT		MIRVAC				PROJECT		EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT				LOCATION		TEVIOT ROAD, GREENBANK				SHEET TITLE		Q100 MAJOR STORM CALCULATIONS				<table><tr><td colspan="2">JOB CODE</td></tr><tr><td colspan="2">MIR001-04</td></tr><tr><td>SHEET NUMBER</td><td>REV</td></tr><tr><td>C406</td><td>B</td></tr></table>		JOB CODE		MIR001-04		SHEET NUMBER	REV	C406	B
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19/12/19 02/07/18		B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS ORIGINAL ISSUE						JS KH RPEQ																																																															
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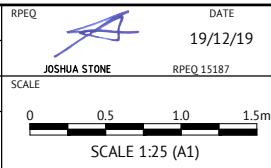


19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ
REVISIONS			



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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	JOSHUA STONE	19/12/19
PROJECT MANAGER	JOSHUA STONE	RPEQ 15187	
PROJECT DIRECTOR	JOSHUA STONE	DATE	19/12/19



CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS

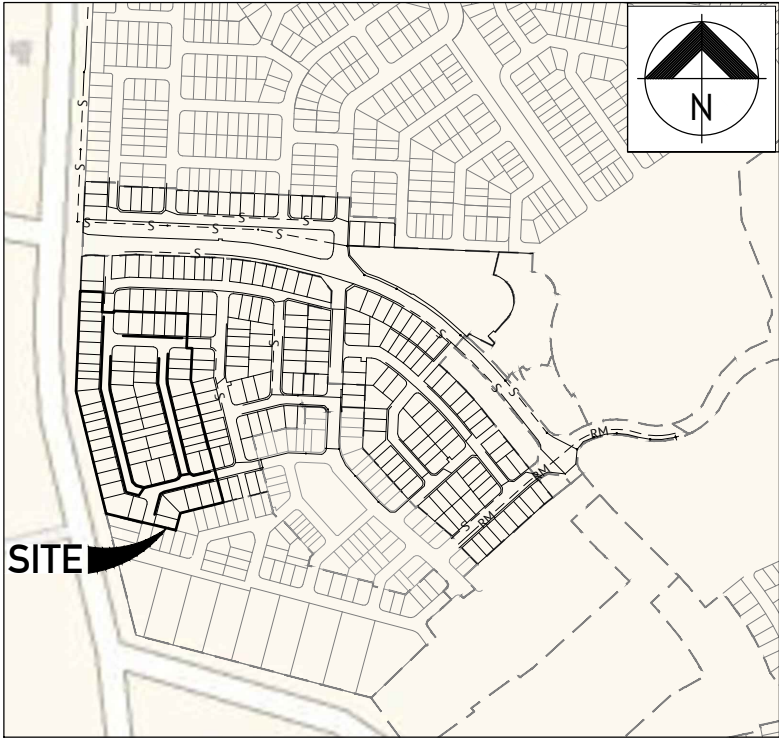
JOB CODE	MIR001-04
SHEET NUMBER	C407
REV	B

EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

SEWERAGE RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

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

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C500	SEWERAGE RETICULATION LOCALITY PLAN & NOTES
C501	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C502	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C503	SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 3
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 3
C505	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 3
C506	SEWERAGE RETICULATION NOTES AND DETAILS

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.
- 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.

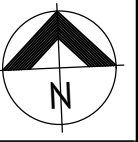
ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 369 915

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

NAME OF ESTATE		EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
SUBDIVIDER		MIRVAC
APPLICATION No.		-
SP DELEGATE APPROVAL DATE		5 JUNE 2017
COUNCIL DA APPROVAL No.		DEV 2016 / 768
DRAWING/PLAN No.		C501-C502
No. OF ALLOTMENTS		61
AREA IN Ha.		4.23 Ha
LENGTH OF SEWERS	DN150 uPVC SN8	1046m



PROJECT DIRECTOR	DATE	RPEQ	DATE	JOB CODE	SHEET NUMBER	REVISION
JOSHUA STONE	19/12/19	JOSHUA STONE	19/12/19	MIR001-04	C500	B
			RPEQ 15187			



LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION.
1.2m OFFSET TO BDY OR 6.5m WHERE
ZERO LOT LINE EXISTS (U.N.O.).
- MAINTENANCE STRUCTURE
- 1
1
PROPOSED MAINTENANCE HOLE OR
MAINTENANCE SHAFT NUMBER.
REFER LONG SECTION DRAWINGS FOR
STRUCTURE DETAILS.
- HB1
1
HORIZONTAL BEND (3m RADIUS).
- 38
LOT NUMBER
- TS
TRUNK SEWER
- D
STORMWATER DRAINAGE
- W
DRINKING WATER MAIN
- E
ELECTRICAL (PROPOSED)
- 12.0
FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- ↓
FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- STAGE BOUNDARY

LEGEND - EXISTING

- EX HC
Ø100mm EXISTING
PROPERTY CONNECTION
- D
STORMWATER DRAINAGE
- S
GRAVITY SEWER
- W
DRINKING WATER 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.

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 FUTURE
DRIVEWAY.



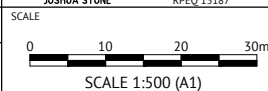
JOINS DRAWING C502

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	C	ADDED SLOPED PROPERTY CONNECTION NOTE, MANHOLE NOTE AND AMENDED PROPERTY CONNECTION MAX DEPTH NOTE	JS
31/07/18	B	MINOR AMENDMENTS TO HOUSE CONNECTIONS	KH
02/07/18	A	ORIGINAL ISSUE	KH

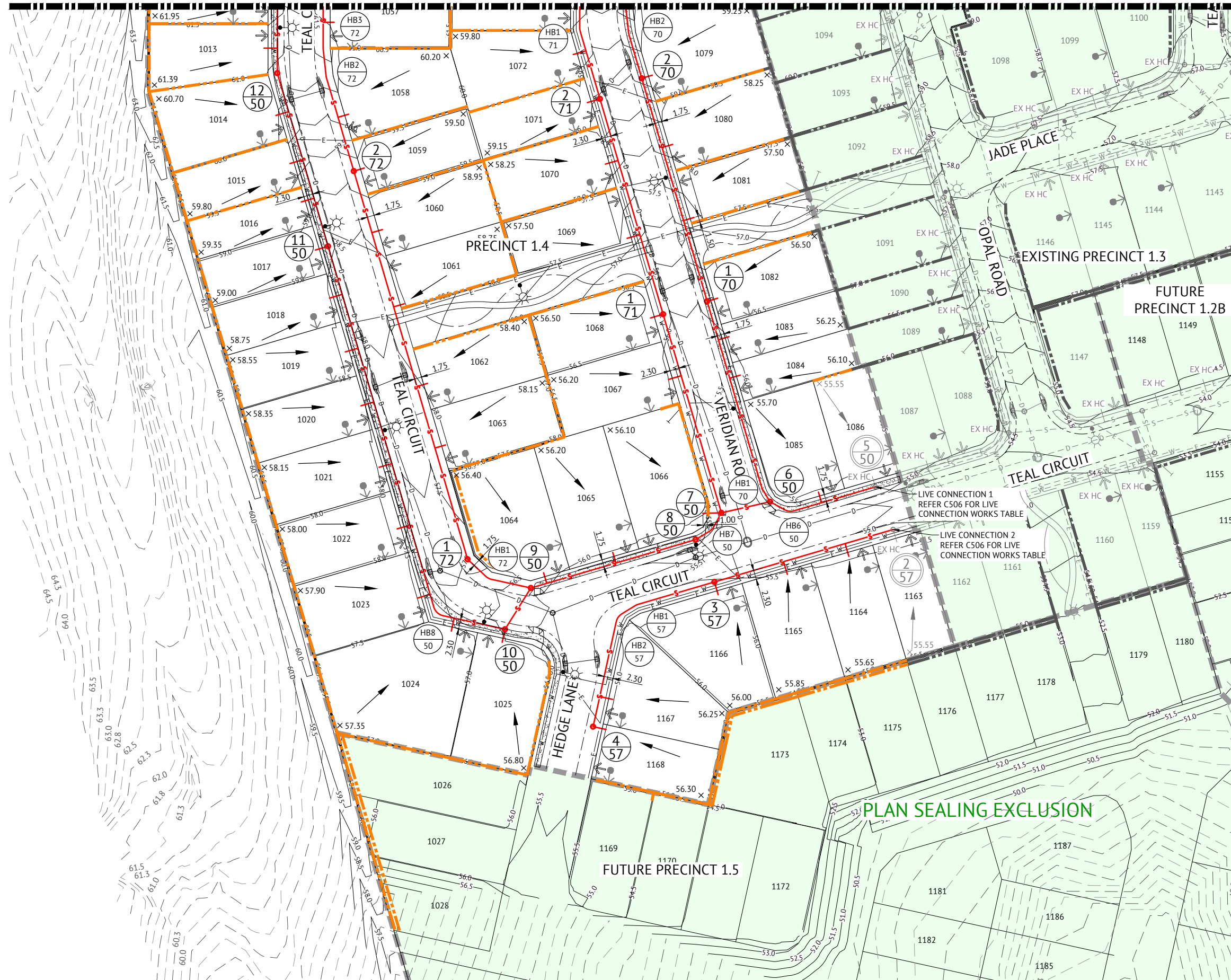
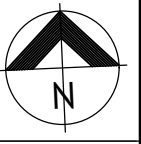


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DESIGNED	MICHAEL MAJNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR	JOSHUA STONE				



CLIENT	MIRVAC	JOB CODE	MIR001-04
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C501
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2		



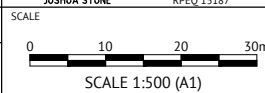
FOR SEWERAGE RETICULATION NOTES
REFER DWG No. C500.
FOR SEWER RETICULATION LEGEND REFER
TO DWG No. C501.

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	C	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
31/07/18	B	MINOR AMENDMENTS TO HOUSE CONNECTIONS	KH
02/07/18	A	ORIGINAL ISSUE	KH



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

DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER		JOSHUA STONE	RPEQ	15187
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR		DATE	19/12/19		



CLIENT	MIRVAC	JOB CODE	MIR001-04
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C502
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2		

MAINTENANCE HOLE / SHAFT NO.

MH / MS COVER TYPE

MH / MS TYPE

MH DROP TYPE

LINE NO.

PROPERTY CONNECTION
DEPTH

PROPERTY CONNECTION
INVERT LEVEL

PROPERTY CONNECTION TYPE

LOT NO.

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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

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

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

* EMBEDMENT TYPE 3 WITH CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).

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.

DATUM RL

PROPERTY DESCRIPTION

PIPE SIZE (mm), CLASS

GRADE (1 IN X)

LENGTH

EMBEDMENT TYPE

DEPTH OF INVERT BELOW FSL

INVERT LEVEL (IL)

FINISHED SURFACE LEVEL (FSL)

EXISTING SURFACE LEVEL (ESL)

CHAINAGE (CH)

LINE

50

57

2/57

3/57

HB1/57

HB2/57

4/57

B

A

V

1095

54.096

1164

1165

1166

1167

1168

1169

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1171

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1431

LEGEND - PROPOSED

64



JOB CODE
MIR001-04

SHEET NUMBER	REV
C504	D

MAINTENANCE HOLE / SHAFT NO.	9/50	HB1/72	1/72	2/72	HB2/72	HB3/72	3/72	E/72	
MH / MS COVER TYPE	B		B	B				B	
MH / MS TYPE	A	HB	A	A	HB	HB		A	END
MH DROP TYPE	V	V	V	V				V	
LINE NO.	50								
PROPERTY CONNECTION DEPTH			1.094	1.095	1.095	1.094			
PROPERTY CONNECTION INVERT LEVEL			56.633	56.853	57.138	57.526	58.197	58.824	
PROPERTY CONNECTION TYPE			D	D	B	B	D	D	
LOT NO.			1063	1062	1061	1060	1059	1058	

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
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B	CONCRETE MANHOLE 1.2Ø
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PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

DATUM RL

46.000

PROPERTY DESCRIPTION

RR

PIPE SIZE (mm), CLASS

DN150 uPVC SN8

GRADE (1 IN X)

33 33 33 33 40 20 20 20 20 20 20 20 23

LENGTH

10.044 0.802 0.802 6.249 100.939 24.174 0.265 0.265 6.722 0.163 0.163 24.899 12.500

EMBEDMENT TYPE

TYPE 3

DEPTH OF INVERT BELOW FSL

2.438 2.281 2.514 2.545 2.582 2.754 2.714 2.259 2.229 2.423 2.426 2.429 2.516 2.516 2.518 2.457 2.427 2.450

INVERT LEVEL (IL)

53.775 53.932 54.233 54.257 54.281 54.468 54.509 57.032 57.062 58.259 58.272 58.285 58.618 58.626 58.634 59.867 59.897 60.442

FINISHED SURFACE LEVEL (FSL)

56.212 56.747 56.802 56.863 57.223 57.223 59.291 59.291 60.682 60.698 60.715 61.134 61.143 61.152 61.152 62.324 62.324 62.892

EXISTING SURFACE LEVEL (ESL)

55.375 56.013 56.061 56.096 56.305 56.305 59.592 59.607 59.621 59.621 59.621 59.621 59.621 59.621 59.621 61.319 61.319 62.065

CHAINAGE (CH)

0.000 TP 10.044 IP 10.845 TP 11.647 17.896 118.835 143.009 IP 143.274 TP 143.539 TP 150.261 IP 150.424 TP 150.586 175.486 187.986

LINE

72

DATE	REV	DESCRIPTION	REVISIONS
19/12/19	D	ADDED PROPERTY CONNECTION NOTE	
23/01/19	C	AMENDED BEND RADIUS	
23/07/18	B	NOTE ADDED AND UPDATE TO SOME HORIZONTAL BENDS DEFLECTION ANGLES FOR CLARITY	
02/07/18	A	ORIGINAL ISSUE	



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DESIGNED	MICHAEL MAJZNER	RPEQ	JOSHUA STONE	DATE	19/12/19
CHECKED	MICHAEL MAJZNER				
PROJECT MANAGER	JOSHUA STONE				
PROJECT DIRECTOR	JOSHUA STONE	DATE	19/12/19		

SCALE

HORIZONTAL 1:1000 (A1)

VERTICAL 1:100 (A1)

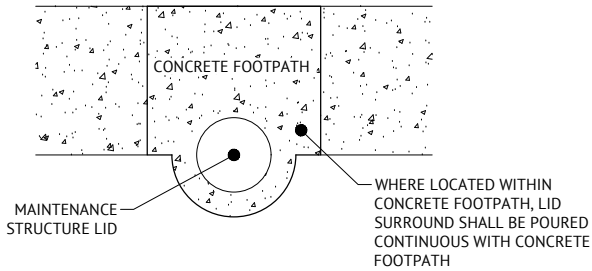
CLIENT	MIRVAC	JOB CODE	MIR001-04
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C505
LOCATION	TEVIOT ROAD, GREENBANK	REV	D
SHEET TITLE	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 3		

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, ON EXISTING MANHOLE 5/50, CONSTRUCTOR TO LAY NEW LINE 50. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	5/50	A	B	1086	55.102	52.195	52.404	2.698
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 50 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 2/57, CONSTRUCTOR TO LAY NEW LINE 57. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	2/57	A	B	1163	55.067	51.806	52.635	2.432
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 57 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 6/64, CONSTRUCTOR TO LAY NEW LINE 64. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	6/64	A	B	1052	62.069	65.377	59.928	2.141
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 64 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

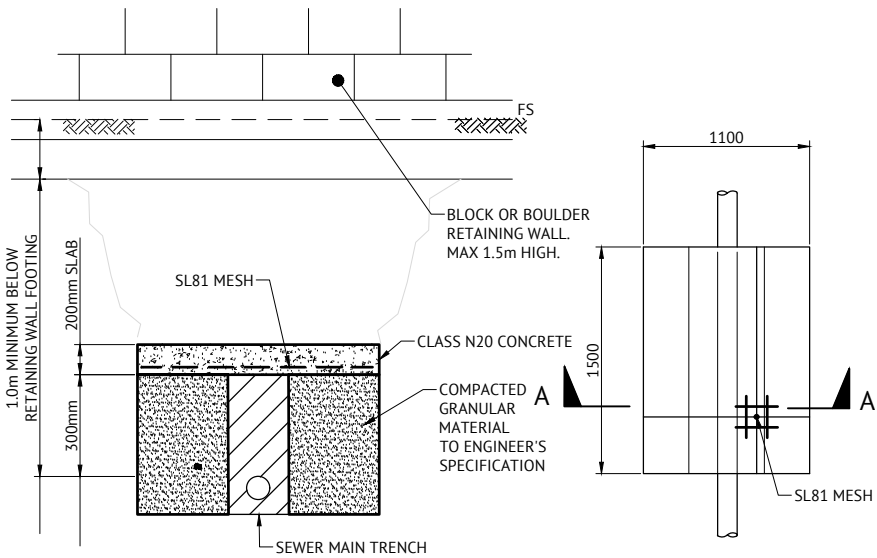
LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS.
AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

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



TYPICAL MAINTENANCE STRUCTURE
IN CONCRETE FOOTPATH DETAIL

NTS

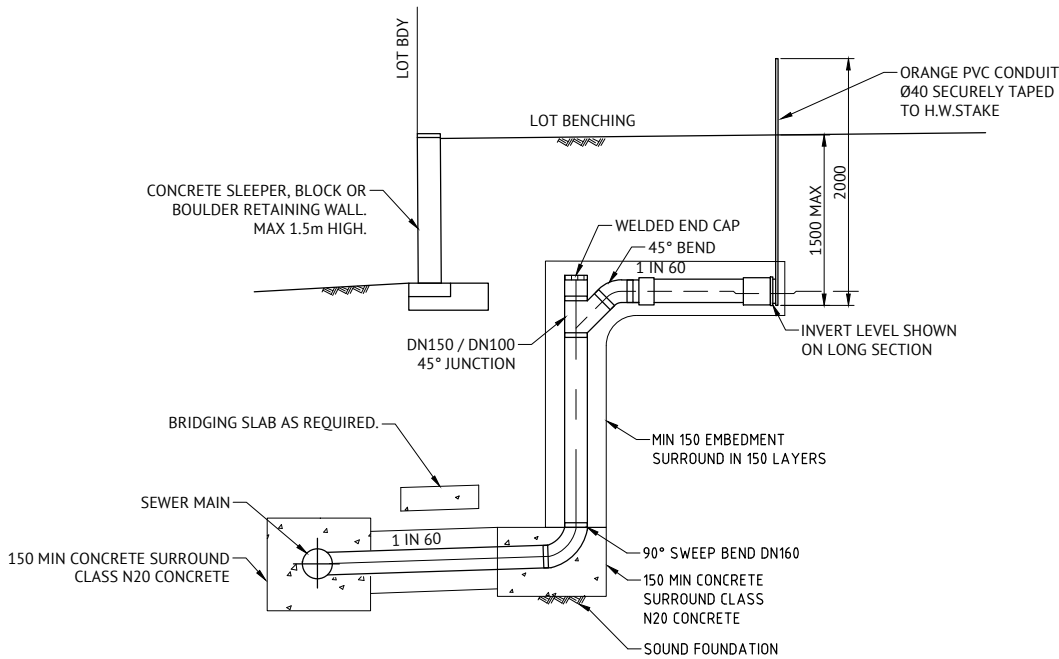


SECTION A-A

PLAN

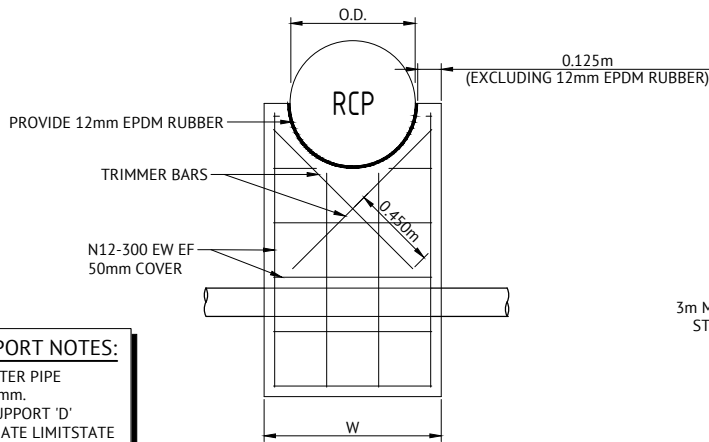
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL
BRIDGING SLAB DETAIL

NTS

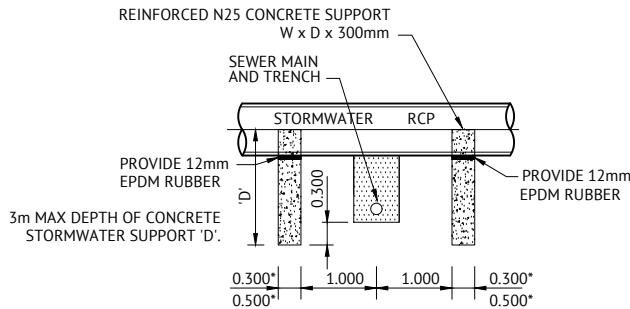


EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)

NTS



SECTION



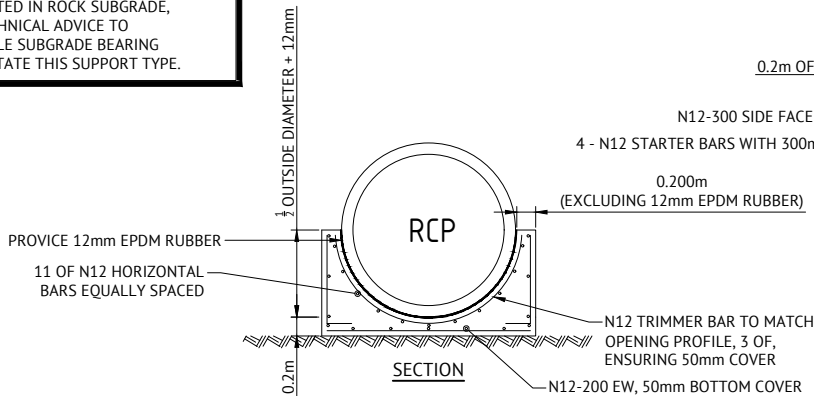
ELEVATION

GENERAL CONCRETE STORMWATER SUPPORT NOTES:

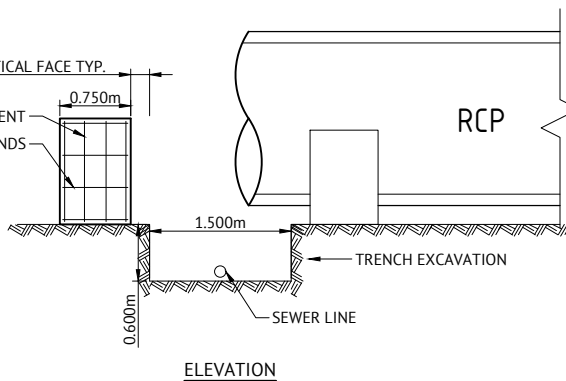
1. SUPPORTS TO BE INSTALLED WHERE STORMWATER PIPE DIAMETER IS EQUAL TO OR GREATER THAN 600mm.
2. 3m MAX DEPTH OF CONCRETE STORMWATER SUPPORT 'D'.
3. DESIGN BASED ON ACHIEVING 100kPa OF ULTIMATE LIMITSTATE BEARING CAPACITY. TO BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION.
4. 0.300m* WIDTH UP TO 1050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

CONCRETE STORMWATER SUPPORT IN ROCK NOTES

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



SECTION





ELEVATION

CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40

19/12/19	B	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ
REVISIONS			

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DESIGNED	MICHAEL MAJZNER	RPEQ		DATE	19/12/19
CHECKED	MICHAEL MAJZNER		JOSHUA STONE	RPEQ 15187	
PROJECT MANAGER	JOSHUA STONE	SCALE	AS SHOWN		
PROJECT DIRECTOR		DATE	19/12/19		
	JOSHUA STONE				

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION NOTES AND DETAILS

JOB CODE	MIR001-04
SHEET NUMBER	C506
REV	B

EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

WATER RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C601	WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2
C602	WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2

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
- TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. SEQ-WAT-1410-1
- 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 BCC STANDARDS.
- INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-2.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-2 AND SEQ-WAT-1409-1
- INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-SEW-1300-1 & 2.

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.

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.

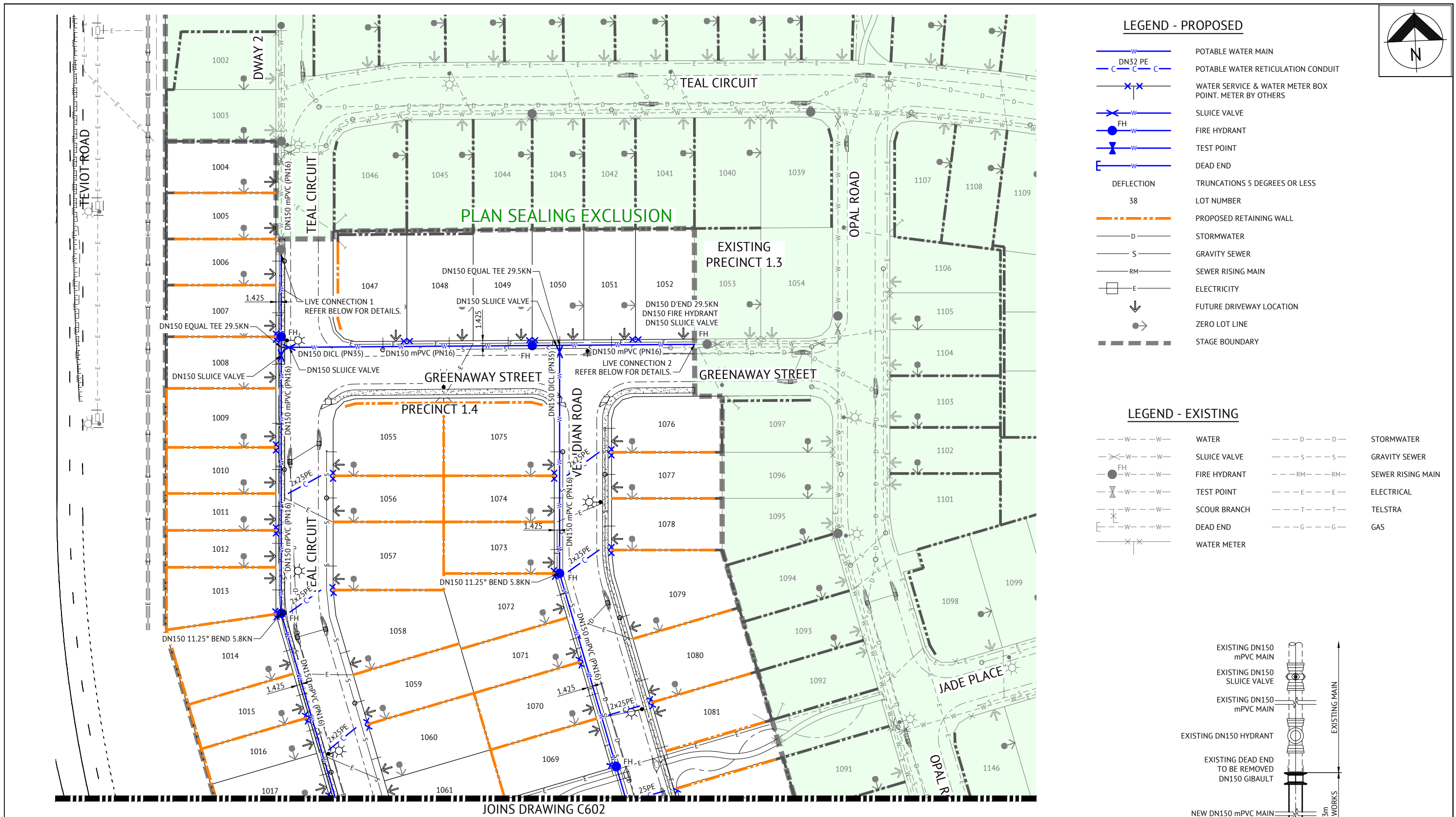
ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128

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



PROJECT DIRECTOR	DATE	RPEQ	DATE	JOB CODE	SHEET NUMBER	REVISION
JOSHUA STONE	19/12/19	JOSHUA STONE	19/12/19	MIR001-04	C600	B
			RPEQ 15187			



LEGEND - PROPOSED

- | | |
|--|--|
| | POTABLE WATER MAIN |
| | POTABLE WATER RETICULATION CONDUIT |
| | WATER SERVICE & WATER METER BOX POINT, METER BY OTHERS |
| | SLUICE VALVE |
| | FIRE HYDRANT |
| | TEST POINT |
| | DEAD END |
| | DEFLECTION |
| | TRUNCATIONS 5 DEGREES OR LESS |
| | LOT NUMBER |
| | PROPOSED RETAINING WALL |
| | STORMWATER |
| | GRAVITY SEWER |
| | SEWER RISING MAIN |
| | ELECTRICITY |
| | FUTURE DRIVEWAY LOCATION |
| | ZERO LOT LINE |
| | STAGE BOUNDARY |

LEGEND - EXISTING

- | | | | |
|--|--------------|--|-------------------|
| | WATER | | STORMWATER |
| | SLUICE VALVE | | GRAVITY SEWER |
| | FIRE HYDRANT | | SEWER RISING MAIN |
| | TEST POINT | | ELECTRICAL |
| | SCOUR BRANCH | | TELSTRA |
| | DEAD END | | GAS |
| | WATER METER | | |

JOINS DRAWING C602

INDEMNITY - EXISTING SERVICES

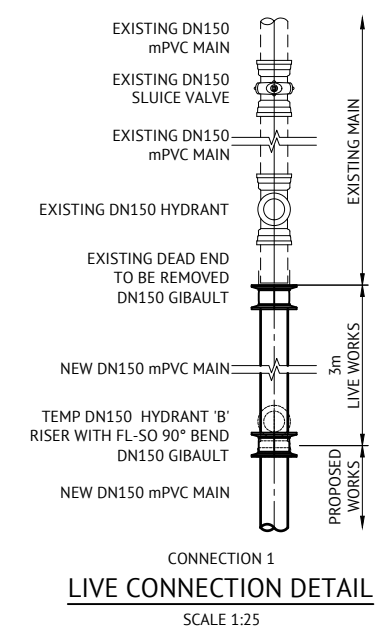
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NOTES

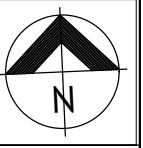
- CONTRACTOR TO ENSURE ALL WATER FITTINGS ARE CONSTRUCTED CLEAR OF ALL PROPOSED DRIVEWAYS
- CONTRACTOR TO LOCALLY DIVERT WATERMAIN AROUND TREE PITS.
- FOR WATER RETICULATION NOTES REFER DRAWING C700.

LIVE CONNECTION NOTES:

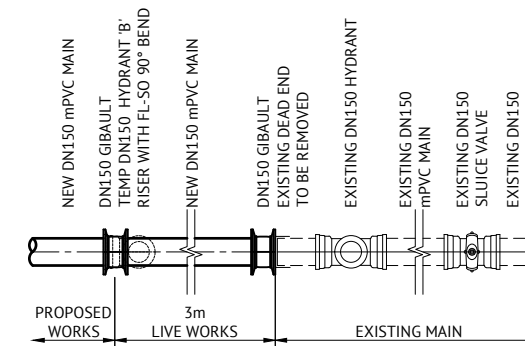
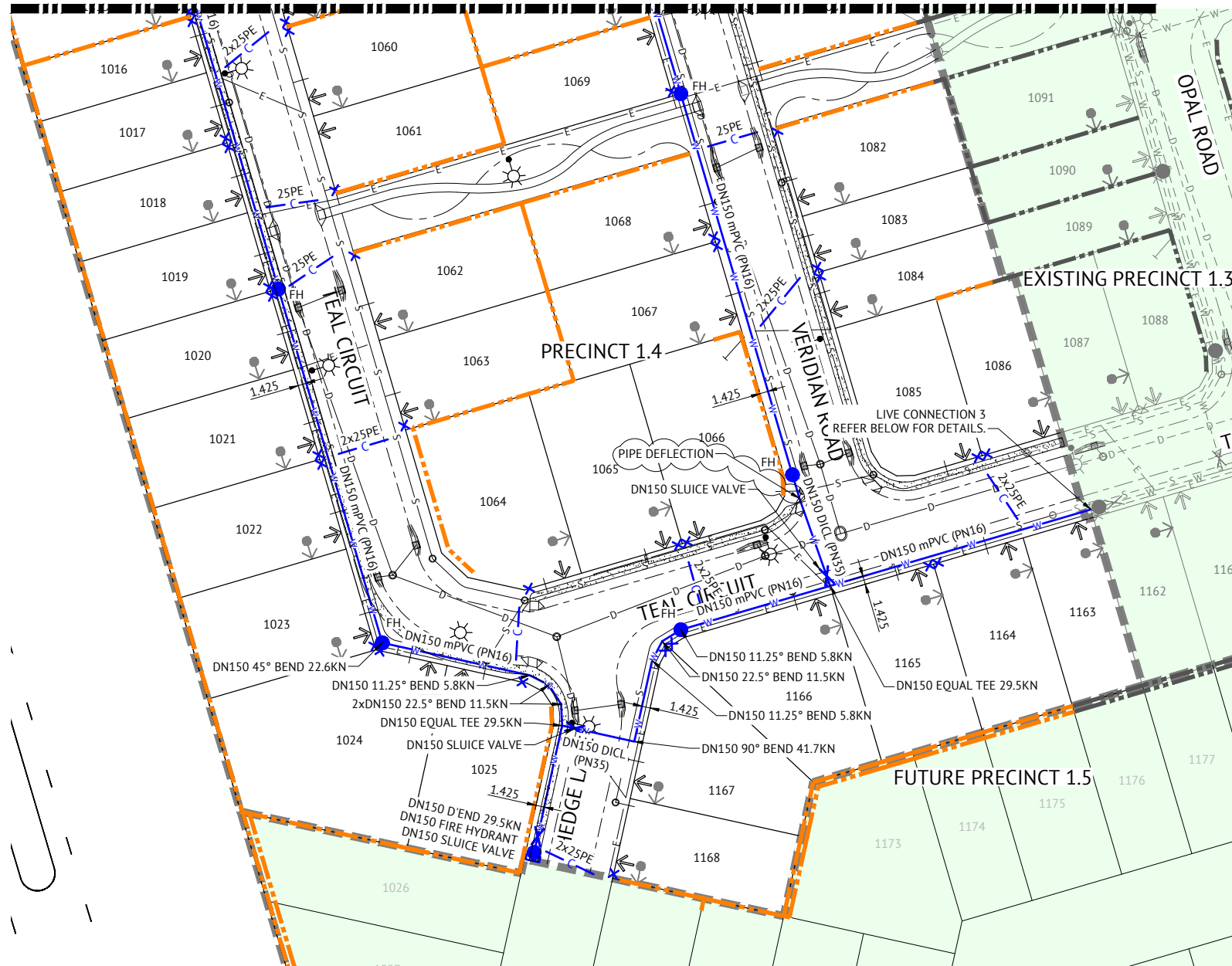
- LIVE CONNECTIONS BY LOGAN WATER
- LIVE CONNECTION IN ACCORDANCE WITH SEQ-WAT-1303-1
- THRUST BLOCKS NOT SHOWN FOR CLARITY.
- PRE-CHLORINATION FITTINGS AS REQUIRED.



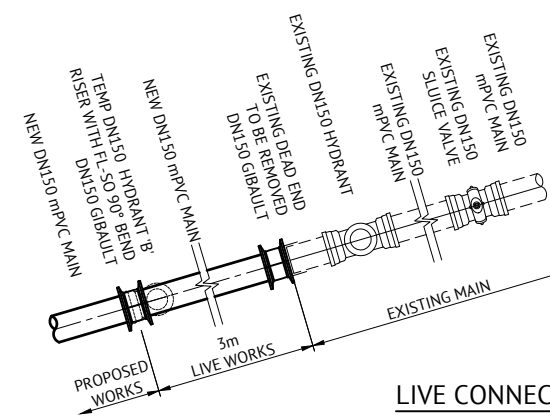
19/12/19 02/07/18		B A	UPDATED PROJECT DIRECTOR AND RPEQ DETAILS - NO ADDITIONAL DESIGN AND DRAFTING AMENDMENTS	JS KH	RPEQ
DATE	REV		DESCRIPTION		REVISIONS
BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au			DESIGNED MICHAEL MAJNER	RPEQ JOSHUA STONE	DATE 19/12/19
			CHECKED MICHAEL MAJNER		
			PROJECT MANAGER JOSHUA STONE		
			PROJECT DIRECTOR JOSHUA STONE		
			DATE 19/12/19		
				SCALE 0 10 20 30m	SCALE 1:500 (A1)
				CLIENT MIRVAC	
			PROJECT EVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT		
			LOCATION TEVIOT ROAD, GREENBANK		
			SHEET TITLE WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2		
				JOB CODE MIR001-04	
				SHEET NUMBER C601	REV B



JOINS DRAWING C601



CONNECTION 2
LIVE CONNECTION DETAIL
SCALE 1:25



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

CONNECTION 3
LIVE CONNECTION DETAIL
SCALE 1:25

LEGEND - PROPOSED

- POTABLE WATER MAIN
- POTABLE WATER RETICULATION CONDUIT
- WATER SERVICE & WATER METER BOX POINT. METER BY OTHERS
- SLUISE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION
- TRUNCATIONS 5 DEGREES OR LESS
- LOT NUMBER
- PROPOSED RETAINING WALL
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICITY
- FUTURE DRIVEWAY LOCATION
- ZERO LOT LINE
- STAGE BOUNDARY

LEGEND - EXISTING

- WATER
- SLUISE VALVE
- FIRE HYDRANT
- TEST POINT
- SCOUR BRANCH
- DEAD END
- WATER METER
- STORMWATER
- GRAVITY SEWER
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NOTES

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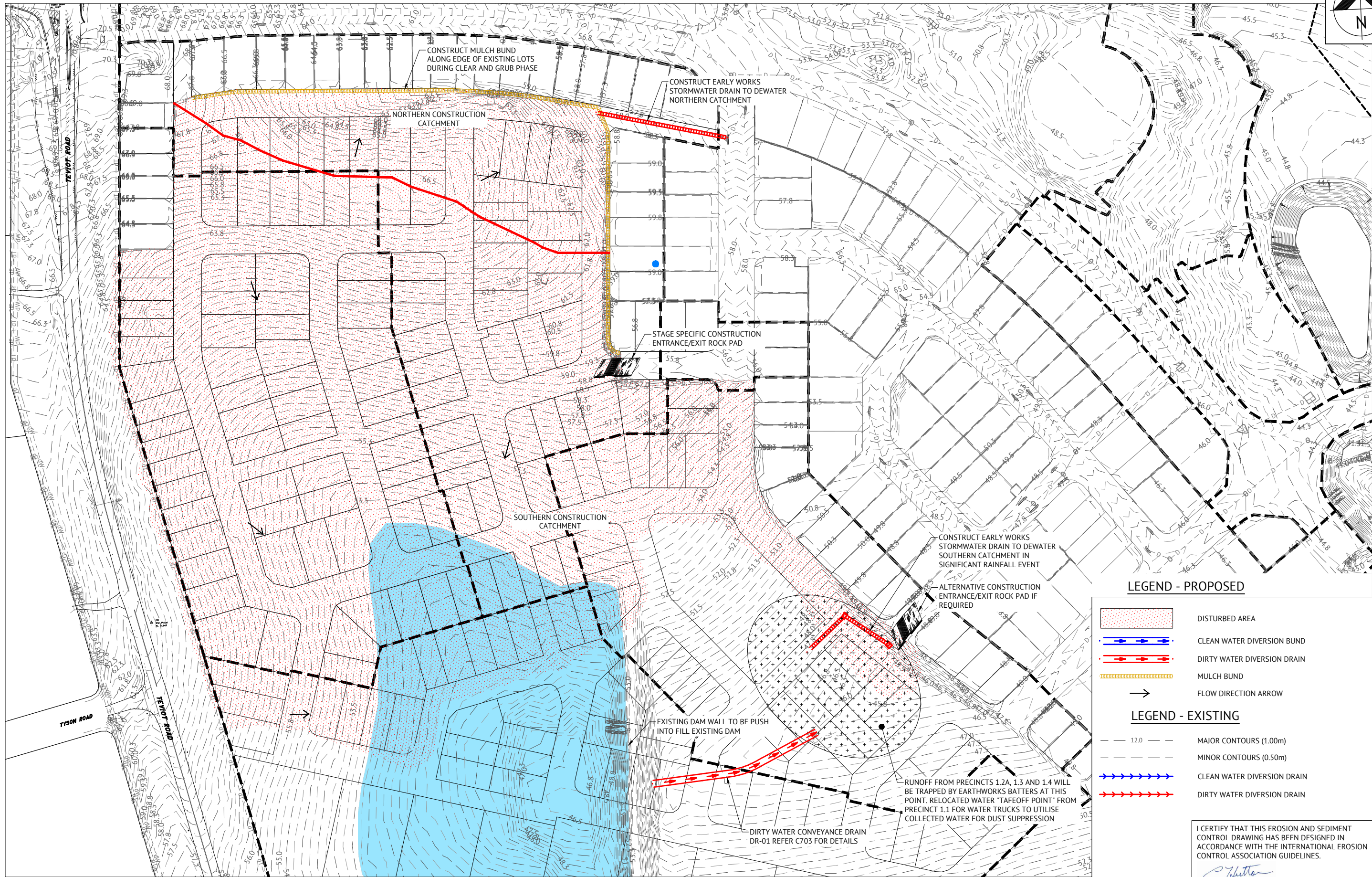
INDEMNITY - EXISTING SERVICES

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**WATER SERVICE PROVISION UNDER
RETAINING WALLS**
N.T.S.

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LEGEND - PROPOSED





- DISTURBED AREA
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION DRAIN
- MULCH BUND
- FLOW DIRECTION ARROW

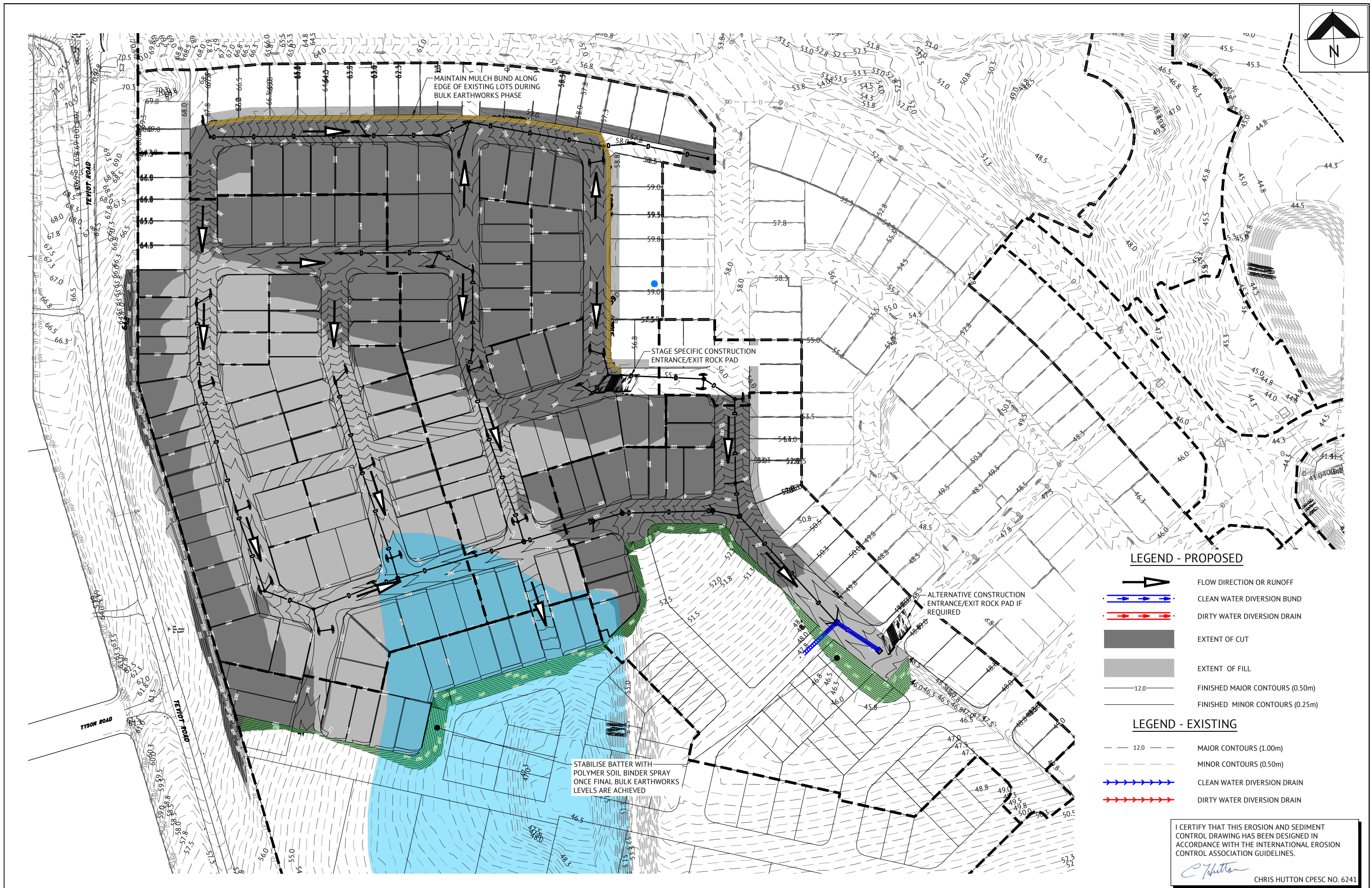
LEGEND - EXISTING

- 12.0 MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN

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

CHRIS HUTTON CPESC NO. 6241

						 Premise			BRISBANE OFFICE LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au			<div>DESIGNEDMICHAEL MAJZNER</div> <div>CHECKEDMICHAEL MAJZNER</div> <div>PROJECT MANAGERJOSHUA STONE</div> <div>PROJECT DIRECTORDATE19/12/19</div> <div>JOSHUA STONE</div>		<div>RPEQDATE19/12/19</div> <div>JOSHUA STONERPEQ 15187</div> <div>SCALE</div> <div> SCALE 1:1000 (A1)</div>		<div>CLIENTMIRVAC</div> <div>PROJECTEVERLEIGH PRECINCT 1.4 SUBDIVISION DEVELOPMENT</div> <div>LOCATIONTEVIOT ROAD, GREENBANK</div> <div>SHEET TITLEROSION AND SEDIMENT CONTOL LAYOUT - CLEAR AND GRUB PHASE</div>				<div>JOB CODE</div> <div>MIR001-04</div> <div><div>SHEET NUMBERC700</div><div>REVB</div></div>	
<div>19/12/19 12/07/18</div> <div>B A</div> <div>ADDED NOTE ORIGINAL ISSUE</div>			<div>JS KH</div> <div>RPEQ</div>																		
<div>DATE REV</div> <div>DESCRIPTION</div>																					



LEGEND - PROPOSED

- FLOW DIRECTION OR RUNOFF
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION DRAIN
- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

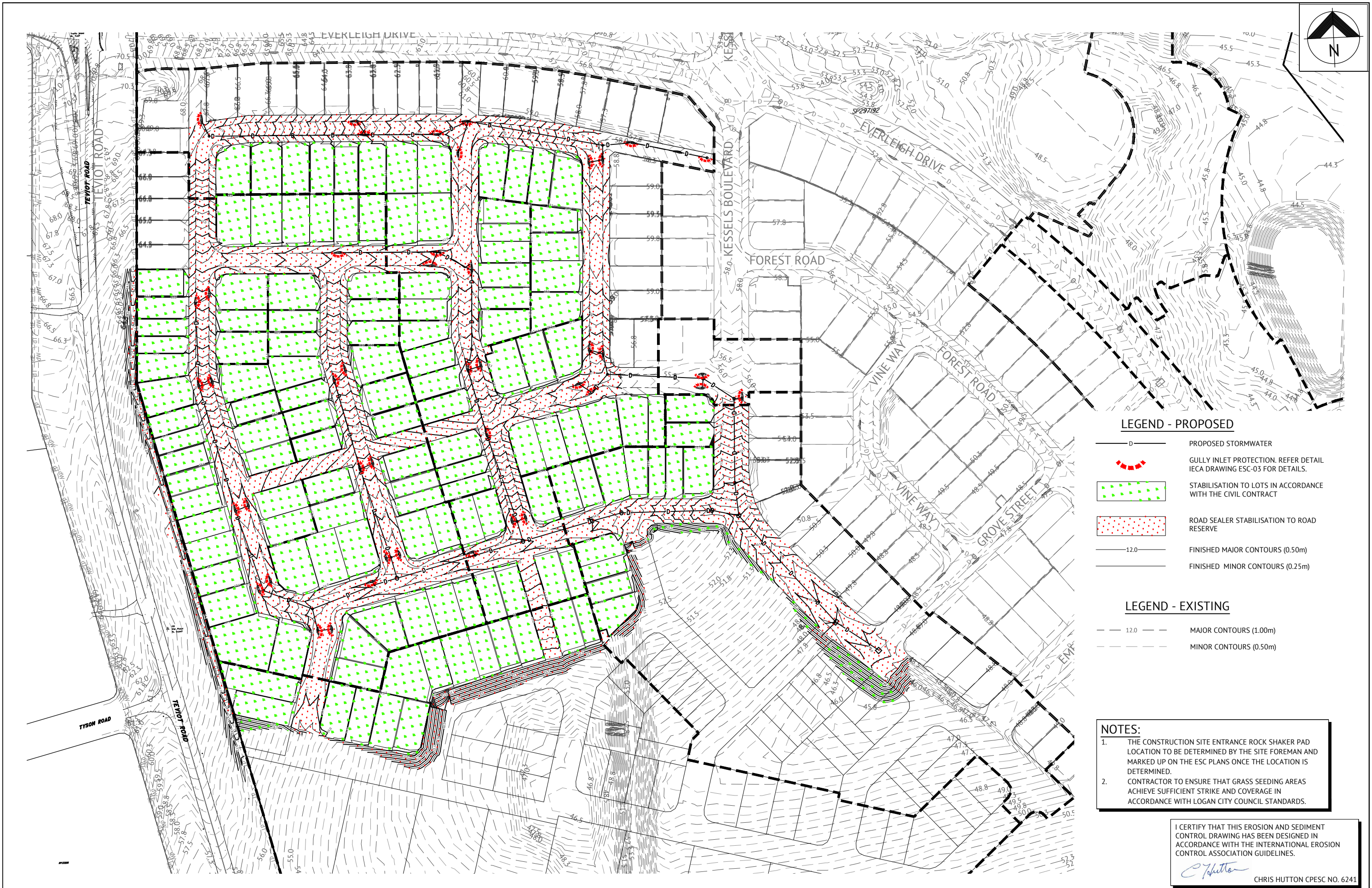
LEGEND - EXISTING








- MAJOR CONTOURS (1.00m)
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EROSION & SEDIMENT CONTROL NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

2. REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.

3. ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.

4. EVERY PRECAUTION IS TO BE TAKEN TO PREVENT THE TRANSPORT OF SILT INTO THE NEWLY LAID STORMWATER PIPES THAT ARE CONNECTED TO THE DOWNSTREAM PIPE SYSTEMS, AND ANY EXISTING OPEN CHANNELS.

5. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

6. THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.

7. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:

• ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON 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.

4. THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.

5. ALL ESC MEASURES SHALL BE INSPECTED:

• AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE).

• AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE).

• WITHIN 24 HOURS OF EXPECTED RAINFALL.

• WITHIN 18 HOURS OF RAINFALL OCCURRING.

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

ESC MEASURES	MAINTENANCE TRIGGER	TIME FRAME FOR UNDERTAKING MAINTENANCE
SEDIMENT BASINS	WHEN SETTLED SEDIMENT VOLUME EXCEEDS THE VOLUME OF THE SEDIMENT SETTLEMENT ZONE	WITHIN 4 DAYS OF INSPECTION
OTHER ESC MEASURES	WHEN SETTLED SEDIMENT VOLUME EXCEEDS 25% OF THE CAPACITY OF THE ESC MEASURE	BY THE END OF THE DAY

7. INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.

8. STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.

9. STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.

10. ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS, INCLUDING (BUT NOT LIMITED TO) TIE WIRE, STAKES, FILTER CLOTH, WIRE MESH AND CLEAN GRAVEL SHOULD BE AVAILABLE ON-SITE.

11. ESC MAINTENANCE ACTIVITIES ARE TO BE RECORDED IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE WORKS AND IS TO BE MADE AVAILABLE TO THE SUPERINTENDENT.

12. DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.

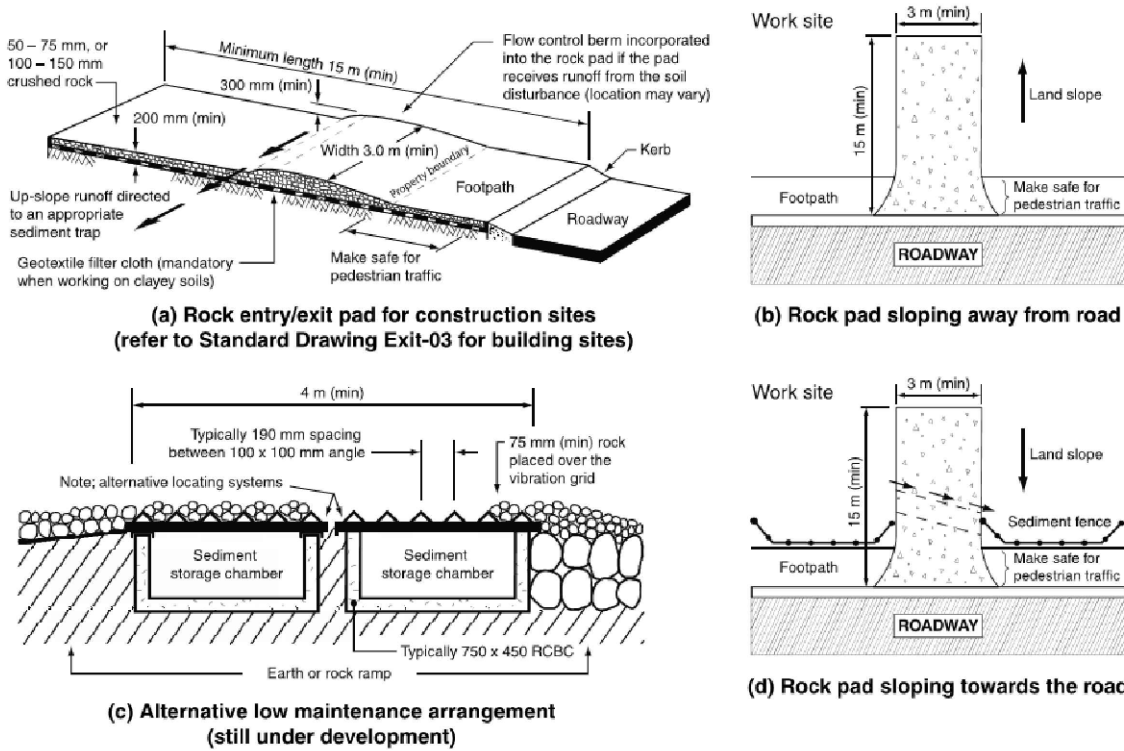
13. SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.

CATCH DRAIN DETAILS

Drain ID	Drain Type	Slope	Lining	Base Width (m)	Top Width (m)	Depth incl. freeboard (m)	Side Slope Length	Wetted Perimeter (m²)	Velocity (m/s)
DR-01	Type B	2.0%	Geofabric	4	5.2	0.3	2	5.34	2.0

NOTE:

COIR LOG CHECK DAMS TO BE INSTALLED AT 20m CRS



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:



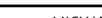

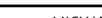

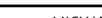
- **Daily site inspections** (during periods of runoff producing rainfall)
 - All drainage, erosion and sediment control measures
 - Occurrences of excessive sediment deposition (whether on-site or off-site)
 - All site discharge points (including dewatering activities as appropriate)
- **Weekly site 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 chemical 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

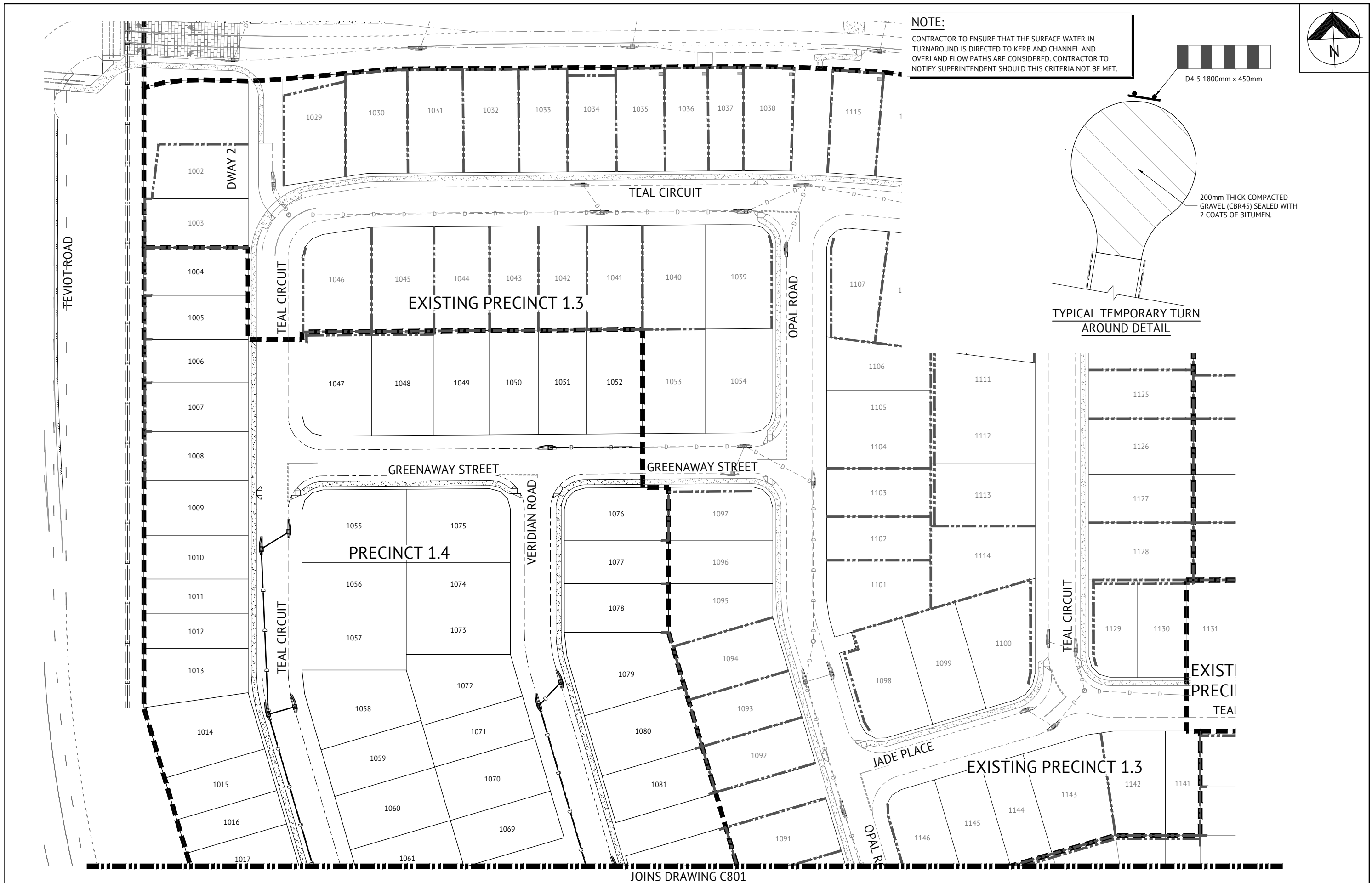
ROLLS AND RESPONSIBILITIES

Role	Responsibility
Project Manager	<ul style="list-style-type: none">• Overall responsibility of ESC implementation• Notify the Environmental Manager immediately of any non-compliance with ESCP• Ensure the prompt implementation of measures to mitigate erosion and sediment generation
Site Supervisor/Foremen	<ul style="list-style-type: none">• Monitor daily rainfall• Notify Environmental Advisor/Consultant when runoff generating rainfall occurs in the previous 24 hours• Maintain current records of rainfall, storage volumes, water quality, treatment practices, discharge volumes (as appropriate)• Installation and maintenance of ESC
Environmental Manager	<ul style="list-style-type: none">• Provide design information as required• Conduct in-situ monitoring (as required)• Collect and submit samples to laboratory (as required)• Collate results and prepare reports (as required)• Conduct site inspections and audits (as required)• Inspect ESC installation and maintenance• Inspect offsite impacts and management• Provide advice regarding ESC site improvement (as required)
All Personnel	<ul style="list-style-type: none">• Report any damage to ESC devices and any potential or actual environmental harm in line with Duty to Notify under the requirements of the Environmental Protection Act 1994

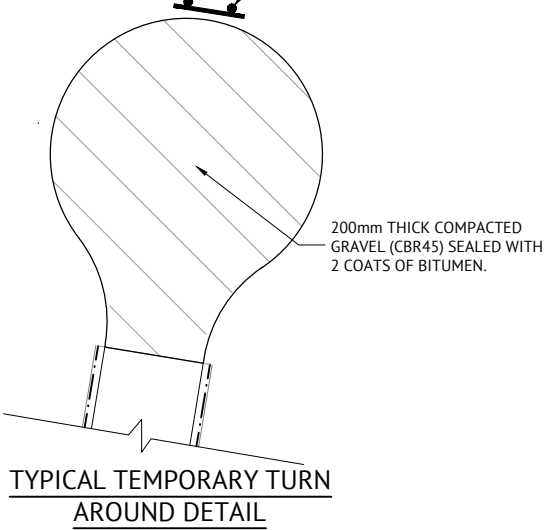
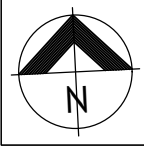
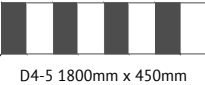
I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.


CHRIS HUTTON CPESC NO. 6241

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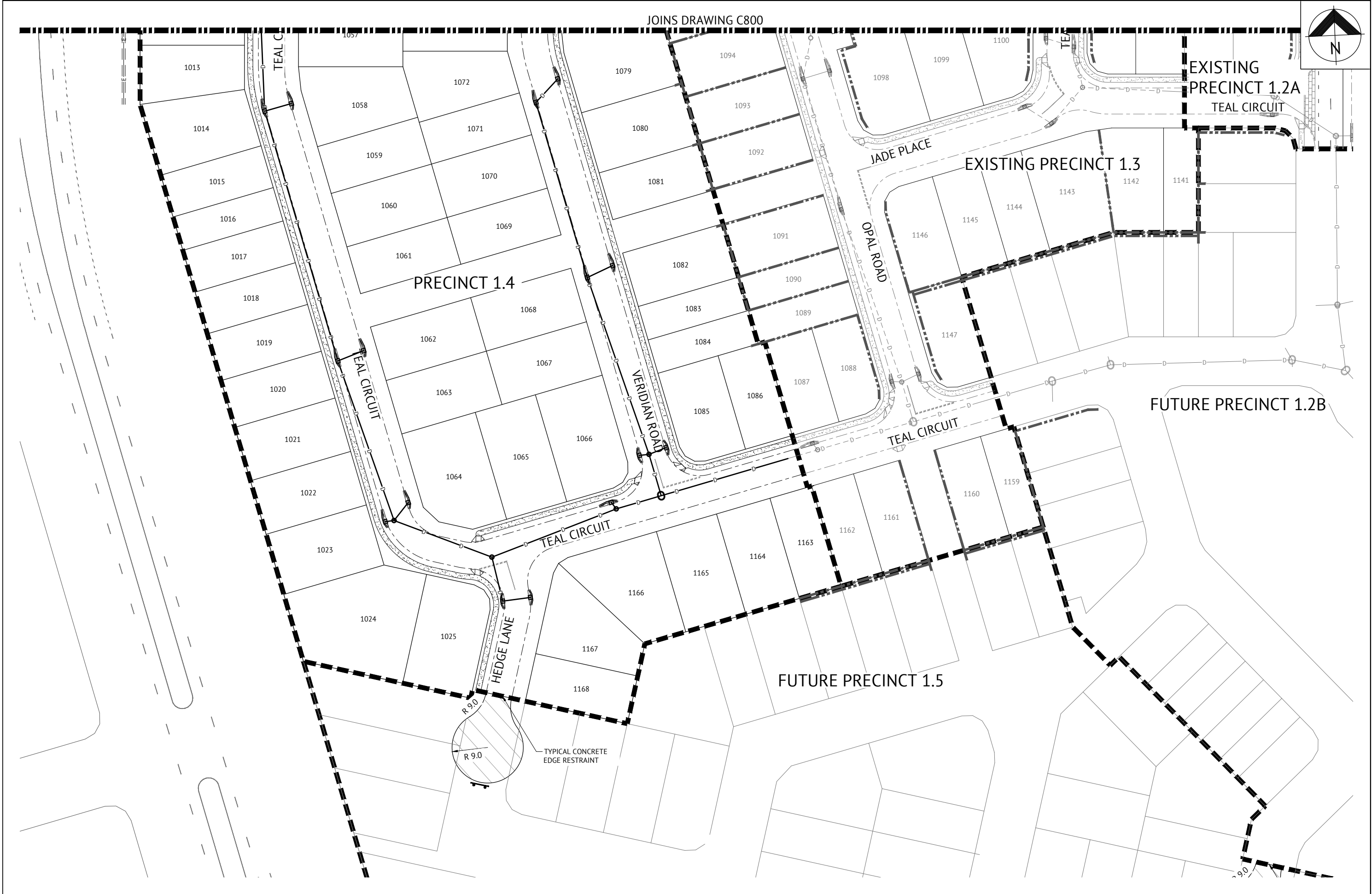


NOTE:
CONTRACTOR TO ENSURE THAT THE SURFACE WATER IN TURNAROUND IS DIRECTED TO KERB AND CHANNEL AND OVERLAND FLOW PATHS ARE CONSIDERED. CONTRACTOR TO NOTIFY SUPERINTENDENT SHOULD THIS CRITERIA NOT BE MET.



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