

**BENTLEY CROSSING**

**STAGES 2 AND 3**

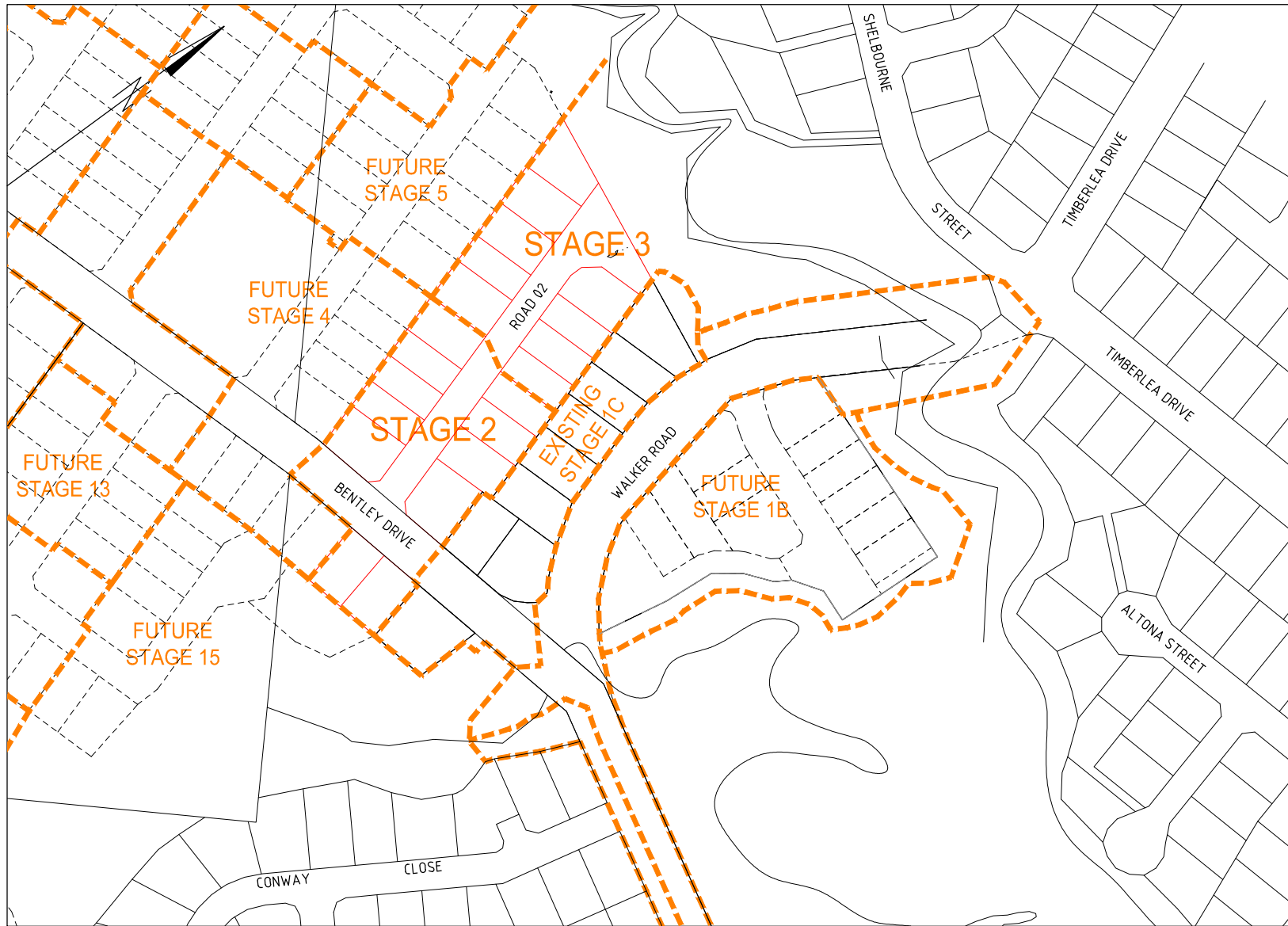
**AT**

**WALKER ROAD, BENTLEY PARK**

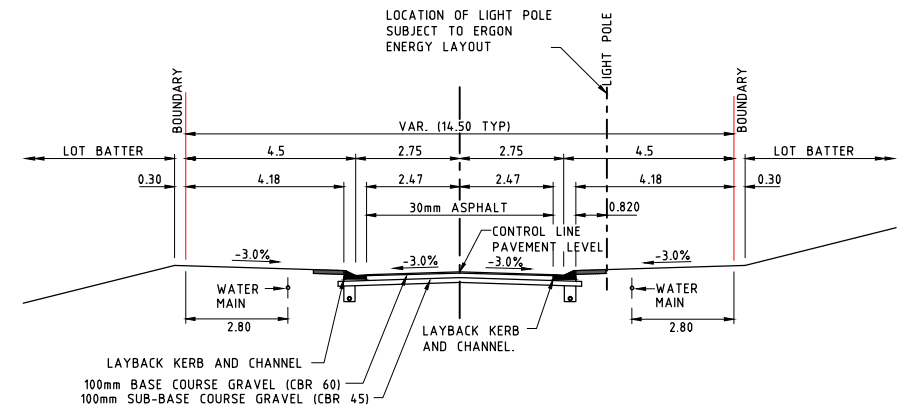
**FOR**

**WALKER ROAD PTY LTD.**

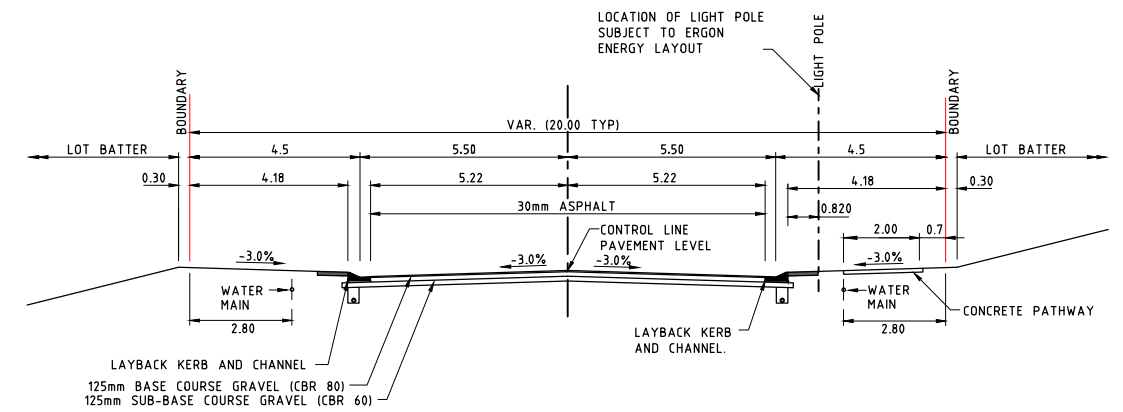
# BENTLEY CROSSING STAGES 2 AND 3



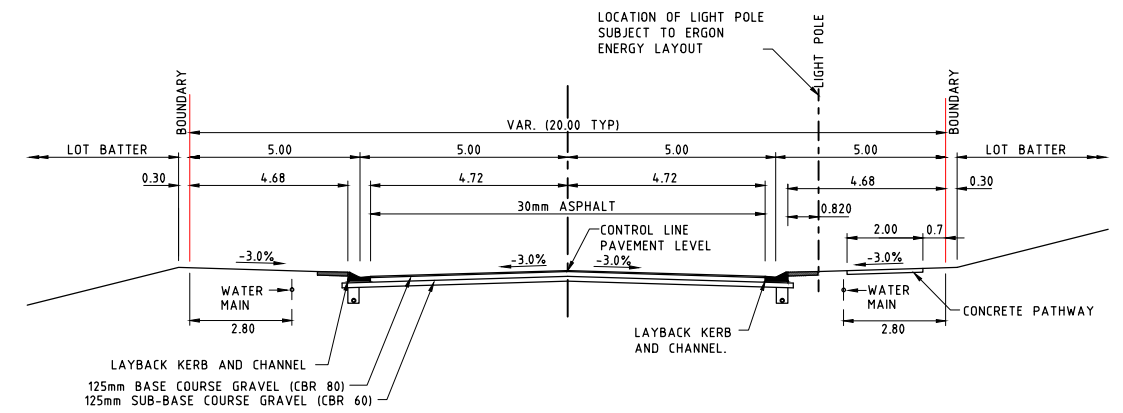
LOCALITY PLAN  
NTS



TYPICAL SECTION - ROAD 02  
CH 0.000 - 140.000  
NTS



TYPICAL SECTION - BENTLEY DRIVE  
CH 71.920 - 105  
NTS



TYPICAL SECTION - BENTLEY DRIVE  
CH 105 - END  
NTS

DWG No.	TITLE
15495 - C201	LOCALITY PLAN, DRAWING INDEX & TYPE SECTIONS
15495 - C202	DRAWING SET NOTES
15495 - C203	EARTHWORKS PLAN - SHEET 1 OF 2
15495 - C204	EARTHWORKS PLAN - SHEET 2 OF 2
15495 - C205	ROADWORKS AND DRAINAGE PLAN - SHEET 1 OF 2
15495 - C206	ROADWORKS AND DRAINAGE PLAN - SHEET 2 OF 2
15495 - C207	BENTLEY DRIVE LONGITUDINAL SECTION
15495 - C208	BENTLEY DRIVE CROSS SECTIONS
15495 - C209	ROAD 02 LONGITUDINAL SECTION
15495 - C210	ROAD 02 CROSS SECTIONS
15495 - C211	INTERSECTION AND CUL DE SAC SETOUT PLAN
15495 - C212	DRAINAGE CATCHMENT PLAN
15495 - C213	DRAINAGE LONGITUDINAL SECTIONS
15495 - C214	DRAINAGE CALCULATION TABLES
15495 - C215	EROSION AND SEDIMENT CONTROL PLAN
15495 - C216	SEWERAGE PLAN - SHEET 1 OF 2
15495 - C217	SEWERAGE PLAN - SHEET 2 OF 2
15495 - C218	SEWER LONGITUDINAL SECTIONS
15495 - C219	WATER RETICULATION AND LINEMARKING PLAN

**CROSS SECTION NOTES**

REFER EARTHWORKS PLAN AND CROSS SECTION DRAWINGS FOR SIDE BATTER AND ALLOTMENT EARTHWORKS TREATMENT.

ALL KERB AND CHANNEL TYPES TO BE IN ACCORDANCE WITH FNQROC STANDARD DWG No. S1000

SINGLE TURF STRIP WITH RETURNS BEHIND ALL KERB AND CHANNEL IN ACCORDANCE WITH DEVELOPMENT MANUAL.

**PAVEMENT DATA:**

125mm TYPE 2.1 BASE COURSE (CBR 80) COMPACTED TO 100% SRDD, OVERLAYING 125mm TYPE 2.2 SUB-BASE COURSE (CBR 60) COMPACTED TO 98% SRDD (BENTLEY DRIVE).

100mm TYPE 2.2 BASE COURSE (CBR 60) COMPACTED TO 100% SRDD, OVERLAYING 100mm TYPE 2.3 SUB-BASE COURSE (CBR 45) COMPACTED TO 98% SRDD (ROAD 02).

SUB-GRADE TO BE TRIMMED AND COMPACTED TO 98% SRDD. SUB-GRADE CBR TO BE CHECKED AND SUBMITTED TO ENGINEER FOR CONFIRMATION OF PAVEMENT DESIGN AND APPROVALS BY CAIRNS CITY COUNCIL. REFER TO SUBGRADE AND FILL NOTES 13030-C02

ASSUMED DESIGN SUBGRADE SOAKED CBR = 10 AT 98% SRDD.

ASPHALT SURFACE (30mm TYPICAL.)

PRIME COAT -  
C170 BITUMEN 8% CUT BACK 0.8 litres/sq.m.  
ASPHALT  
48 HOURS MIN. AFTER PRIME COAT

THE CONTRACTOR IS TO ENSURE THAT THE PAVEMENT COURSES ARE SET DOWN SUFFICIENTLY TO ALLOW FOR THE THICKNESS OF ASPHALT SURFACING.

VERGE (FOOTPATH) CROSSFALLS NOT TO EXCEED THOSE SPECIFIED.

**SEEDING DETAILS:**

ALL FOOTPATHS ARE TO BE HYDROMULCHED / GRASSED (DRILL SEEDING WITH APPROVED GRASS SPECIES), FERTILISED, AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.

**SUBSOIL DRAINS:**

FOR SUBSOIL DRAIN DETAILS REFER TO FNQROC STD DRG S1095.

ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	TYPICAL SECTIONS REVISED	26.05.17
B	15495 - C219 PLAN NAME CHANGED	12.05.16
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE N/A  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction



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Client  
**WALKER ROAD  
PTY LTD**

Project  
**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title  
**LOCALITY PLAN - DRAWING  
INDEX - TYPICAL CROSS  
SECTIONS**

Drawn	Designed	Verified
JP	PAM	RJB
Approved RJC		Date JUN 2017
Drawing Number 15495 - C201		Revision D

**CONCRETE NOTES**

150mm THICK CONCRETE SLAB PAVEMENT (APPROVED FINISH). SL82 MIN FABRIC, 50mm TOP COVER. OVERLAYING - 150mm THICK CBR45 (MIN) TYPE 2.3, COMPACTED TO 98% SRDD.

**SUBGRADE AND FILL NOTES**

AREA TO BE CLEARED AND GRUBBED OUT TO REMOVE TOPSOIL AND ORGANIC MATERIAL.

WHERE NECESSARY APPROVED IMPORTED FILL TO BE SPREAD IN LAYERS NOT EXCEEDING 200mm AND COMPACTED USING VIBRATORY ROLLER TO 98% SRDD AT OPTIMUM MOISTURE CONTENT.

ANY TREES TO BE REMOVED SHALL BE EXCAVATED AND THE HOLE FILLED WITH APPROVED IMPORTED FILL COMPACTED AS ABOVE.

FILLING TO BE BROUGHT UP TO THE UNDERSIDE OF THE ROAD PAVEMENT AND TRIMMED TO THE DESIRED LEVELS.

APPROVED IMPORTED FILLING UNDER THE PAVEMENT TO HAVE A CBR OF 15 AND A MIN DEPTH OF 250mm. IMPORTED GRAVEL TYPE MUST COMPLY WITH ALL ASPECTS OF THE "MAIN ROADS STANDARD SPECIFICATION MRS 11.05 - UNBOUND PAVEMENTS".

ALL SOFT SPOTS SHALL BE EXCAVATED BACK TO FIRM GROUND. THE BASE OF THE EXCAVATION COMPACTED AND BACKFILLED WITH APPROVED IMPORTED FILL COMPACTED AS ABOVE.

ALL FILL SHALL BE TESTED FOR COMPACTION IN ACCORDANCE WITH AS3798 AND FNQROC REQUIREMENTS.

SUB-GRADE TO BE TRIMMED AND COMPACTED TO 98% SRDD ( ASSUMED SOAKED CBR 7 MIN ).

THE CONTRACTOR SHALL CHECK THE PAVEMENT SUBGRADE CBR AND SUBMIT THE CBR TEST RESULTS TO THE SUPERINTENDENT, FOR CONFIRMATION OF PAVEMENT DESIGN, AT LEAST TWO WEEKS PRIOR TO THE PLACEMENT OF ANY GRAVEL. REFER SPECIFICATION FOR TEST FREQUENCY AND LOCATION.

NO PAVEMENT GRAVEL IS TO BE DELIVERED TO THE SITE UNTIL AFTER THE CONTRACTOR HAS RECEIVED WRITTEN CONFIRMATION OF THE PAVEMENT DESIGN FROM THE SUPERINTENDENT.

THE CONTRACTOR IS TO ENSURE THAT THE PAVEMENT COURSES ARE SET DOWN SUFFICIENTLY TO ALLOW FOR THE THICKNESS OF ASPHALT SEAL COAT.

**ASPHALT SURFACE** (WHERE SPECIFIED)

THE PAVEMENT IS TO BE BROOMED CLEAN AND SHALL BE DRY PRIOR TO APPLYING PRIME COAT.

PRIME COAT SHALL BE APPLIED 48 HOURS PRIOR TO ASPHALT SEALING.

APPLY 30mm (50mm IN SPECIFIED AREAS) OF APPROVED ASPHALT.

THE PRIME COAT AND HOT MIX DESIGN SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH COUNCIL DEVELOPMENT MANUAL REQUIREMENTS, WITH POLYMER ADDITIVES.

**CONSTRUCTION UNDER TRAFFIC**

THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR APPROVAL BY COUNCIL PRIOR TO THE PRESTART MEETING.

**ROADWORKS NOTES**

- TRAFFIC CONTROL DEVICES (ROAD EDGE GUIDE POSTS, SIGNS, ETC) SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ISSUE OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS ISSUED BY THE DEPARTMENT OF TRANSPORT, QUEENSLAND.
- REFER TO THE "TYPE CROSS SECTIONS" DRAWING FOR PAVEMENT DETAILS.
- CONSTRUCTION AND INSTALLATION OF ALL WORKS AS DETAILED ON THIS DRAWING IS TO BE IN ACCORDANCE WITH THE PROCEDURES, SPECIFICATIONS AND DRAWINGS CONTAINED IN THE CURRENT ISSUE OF THE "REGIONAL DEVELOPMENT MANUAL" AS ISSUED BY FNQROC, AND TO THE REQUIREMENTS OF THE COUNCIL.
- THE CONTRACTOR SHALL LIAISE WITH THE RELEVANT AUTHORITIES TO CONFIRM THE LOCATION OF ALL EXISTING SERVICES, AND SHALL ARRANGE FOR THE REMOVAL OR RELOCATION OF ANY SERVICES WHICH WILL BE AFFECTED BY THE WORKS.
- THE CONTRACTOR/BUILDER SHALL OBTAIN COUNCIL APPROVALS PRIOR TO COMMENCING ANY CONSTRUCTION WORKS EXTERNAL TO THE SITE.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING CONSTRUCTION, TREES, SERVICES ETC AS NECESSARY TO PERMIT CONSTRUCTION OF THE NEW WORKS.
- THE CONTRACTOR SHALL OBTAIN COUNCIL INSPECTIONS AND THEIR WITNESS TO TESTING PRIOR TO MAKING SEWERS AND WATER MAINS LIVE. A COPY OF COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.
- THE CONTRACTOR SHALL PROVIDE "AS CONSTRUCTED" DRAWINGS PREPARED BY A REGISTERED SURVEYOR IN ACCORDANCE WITH FNQROC TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.
- ALL TREES ON THE SITE ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECTION OF EXISTING TREES SHALL BE IN ACCORDANCE WITH AS4970 -2009 -PROTECTION OF TREES ON DEVELOPMENT SITES.
- THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE COUNCIL'S DECISION NOTICE/NEGOTIATED DECISION NOTICE ISSUED FOR THE PROJECT -COPIES ARE AVAILABLE ON REQUEST.
- SUBSOIL FLUSH POINTS TO BE IN ACCORDANCE WITH FNQROC DWG No. S1095. WHERE FLUSH POINTS OCCUR AT STORMWATER PITS, ENSURE FLUSHING POINT IS PROVIDED INSIDE THE PIT TO THE DETAILS SHOWN ON FNQROC DWG No. S1095.
- CCTV INSPECTIONS ARE TO BE CONDUCTED FOR ALL STORMWATER PIPES FOR COUNCIL ASSESSMENT.

**SURVEY & EXISTING SERVICES**

- HORIZONTAL DATUM IS MGA
- LEVEL DATUM IS AHD.
- REFER TO THE RPS SURVEYORS FOR THE CONFORMATION OF SURVEY STATION SETOUT DETAILS INCLUDING LEVELS AND DATUMS.
- THE EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE DERIVED FROM SURFACE SURVEY AND COUNCIL RECORDS AND MAY NOT REPRESENT THE EXISTING SERVICES PRESENT BELOW THE SURFACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SERVICES PRIOR TO ANY EXCAVATION, PARTICULARLY ON FOOTPATHS.
- ALL DAMAGE TO EXISTING SERVICES SHALL BE MADE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT AUTHORITY, ALL AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOTIFY THE RELEVANT AUTHORITY IMMEDIATELY WHEN ANY DAMAGE OCCURS.
- THE LINE AND LEVEL OF EXISTING UNDERGROUND SERVICES SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CLASHES WITH DESIGN STRUCTURES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION.
- EXISTING OUTLET LEVELS OR CONNECTION LEVELS FOR ALL DESIGN STORMWATER AND SEWER SHALL BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS PRIOR TO COMMENCING CONSTRUCTION.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO-
  - CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS.
  - CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES.
  - COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.
  - HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.
  - DIAL BEFORE YOU DIG
- THE CONTRACTOR IS TO BRING TO THE SUPERINTENDENT'S ATTENTION ANY DISCREPANCIES BETWEEN THE EXISTING SERVICES THUS IDENTIFIED AND DOCUMENTED SERVICES WHICH MIGHT AFFECT THE PROPOSED WORKS. APPROPRIATE MEASURES TO RESOLVE ANY CONFLICT WILL BE DOCUMENTED BY THE SUPERINTENDENT.

**SEWERAGE RETICULATION**

- ALL SEWER PIPES SHALL BE 150 DIA PVC, CLASS SEH, UNLESS NOTED OTHERWISE.
- END CAPS ARE SHALL BE PROVIDED AT ALL LINE ENDS WHERE MANHOLES ARE NOT TO BE CONSTRUCTED.
- WHERE MANHOLES OCCUR AT THE ENDS OF SEWER LINES, THE HOUSE CONNECTION BRANCH (PCB) IS TO BE CONNECTED DIRECTLY TO MANHOLE TO AVOID DRY MANHOLE SITUATIONS. REFER TO PLAN FOR PCB LOCATIONS.
- REFER TO THE SEWERAGE LONGITUDINAL SECTIONS FOR SEWER PIPE GRADES, INVERT LEVELS, STORMWATER CLASHES, ETC.
- CONSTRUCTION OF THE SEWERAGE RETICULATION SHALL BE IN ACCORDANCE WITH THE PROCEDURES, SPECIFICATIONS AND DRAWINGS INCLUDING REQUIREMENTS FOR "AS CONSTRUCTED" DRAWINGS AS CONTAINED IN THE CURRENT ISSUE OF THE "REGIONAL DEVELOPMENT MANUAL" AS ISSUED BY FNQROC, AND SHALL BE TO THE REQUIREMENTS OF THE COUNCIL.
- CONTRACTOR SHALL USE FIBREGLASS REINFORCED JUNCTIONS AT PCB'S WHERE REQUIRED BY CAIRNS REGIONAL COUNCIL.
- INSTALL PIPE ANCHOR BLOCKS TO ALL 100 AND 150 DIA SEWERS AT GRADES GREATER THAN 1 ON 6 IN ACCORDANCE WITH FNQROCDWG No. S3015-CRC AND WSA.
- THE CONTRACTOR SHALL MAKE ALL APPLICATIONS AND PAY ALL FEES TO COUNCIL FOR THE SEWERAGE WORKS AND SHALL ARRANGE AND MANAGE COUNCIL'S INSPECTIONS AND TESTING OF THE WORKS. A COPY OF COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUPER PRIOR TO PRACTICAL COMPLETION.
- CCTV INSPECTIONS ARE TO BE CONDUCTED FOR ALL SEWERS FOR COUNCIL ASSESSMENT.

**EARTHWORKS NOTES**

- ALL FOOTPATHS SHALL BE GRASSED (DRILL SEEDED WITH APPROVED GRASS SPECIES) IN ACCORDANCE WITH LANDSCAPE SPECIFICATIONS, FERTILIZED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
- ALL BARE EARTHWORKS AREAS (LOTS, DRAINS, PARKS, VERGES, ETC.) SHALL BE GRASSED (DRILL SEEDED WITH APPROVED GRASS SPECIES) FOR SLOPES UP TO AND INCLUDING 1 ON 4, OR HYDROMULCHED FOR SLOPES GREATER THAN 1 ON 4. USE APPROVED SEED MIX AND MAINTAIN, WATER AND FERTILISE FOR MAINTENANCE PERIOD.
- CLEAR TREES, LARGE SHRUBS ETC FROM THE AREA OF LOTS AND ROAD RESERVES, ONLY FOR CONSTRUCTION OF ROADS AND SERVICES, AND EITHER REMOVE FROM SITE OR ALTERNATIVELY CHIP MULCH AND STOCKPILE FOR RE-USE IN LANDSCAPING. CONTRACTOR SHALL OBTAIN COUNCIL INSPECTION AND APPROVAL PRIOR TO COMMENCING ANY TREE AND VEGETATION CLEARING. ALL VEGETATION/CONSERVATION ZONES SHALL BE RETAINED AND SHALL BE ADEQUATELY FENCED/SEGREGATED PRIOR TO COMMENCING CONSTRUCTION.
- SLASH THE EARTHWORKS AREA. RAKE AND STOCKPILE CUT VEGETATION FOR RE-USE IN THE LANDSCAPING. CONTINUE SLASHING AND RAKING LOTS AND PARK AREAS AS NECESSARY AND AS INSTRUCTED BY THE SUPERINTENDENT DURING THE CONTRACT AND MAINTENANCE PERIOD TO KEEP GRASS TO A MAXIMUM 50mm TO 100mm HIGH.
- ALL GULLIES AND DEPRESSIONS REQUIRING FILLING SHALL BE CLEARED, GRUBBED AND CLEANED OUT OF SILT, BOULDERS, DEBRIS ETC TO PROVIDE A CLEAN, FIRM BASE PRIOR TO PLACING ANY FILL OR FILTER MATERIALS. COMPACT ALL NATURAL SUBGRADES WITH 6 TO 8 PASSES OF A 10 TONNE VIBRATING ROLLER PRIOR TO PLACING ANY FILL MATERIALS. PLACE SUBSOIL DRAINS/MATS TO ENGINEERS APPROVALS AT THE BASE OF ALL SUCH FILLS AND OUTLET TO THE STORMWATER DRAINAGE SYSTEM. NOTIFY THE SUPERINTENDENT FOR AN INSPECTION PRIOR TO PLACING ANY FILL MATERIALS.
- WHERE FILL IS PLACED ON SLOPING EXISTING SURFACE, THE EXISTING SURFACE SHALL BE BENCHED AND THE BENCH COMPACTED TO 98% SRDD PRIOR TO PLACING THE FILL MATERIAL.
- ALL FILL GREATER THAN 400mm IS TO BE COMPLETED UNDER LEVEL 1 SUPERVISION.
- REMOVE SURFACE ROCKS FROM THE LOTS, FOOTPATHS, VERGES AND PARKLAND AREAS. REUSE IN SCOUR PROTECTION. REMOVE EXCESS FROM SITE OR STOCKPILE AS DIRECTED. ALL COSTS TO BE INCLUDED IN CONTRACT LUMP SUM.
- THE CONTRACTOR SHALL ENSURE NO PONDING AREAS RESULT FROM THE EARTHWORKS OPERATION. ANY SUCH AREAS WHICH DEVELOP SHALL BE RECTIFIED AS DIRECTED BY THE SUPERINTENDENT. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF THE DEVELOPMENT OR EXISTENCE OF ANY SUCH PONDING AREAS.
- BATTERS IN EXCESS OF BOTH 1:5m AND 1:2 SLOPE HIGH SHALL BE ASSESSED AND REPORTED FOR STABILITY (DURING CONSTRUCTION) BY A GEOTECHNICAL ENGINEER. COPIES OF REPORTS SHALL BE FORWARDED TO THE SUPERINTENDENT AND TO COUNCIL.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILISED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, e.g. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
- THE CONTRACTOR SHALL SET OUT (BY REGISTERED SURVEYOR) THE LOCATION OF ALL CUT BATTERS PRIOR TO COMMENCING THESE EARTHWORKS. HE SHALL ENGAGE A GEOTECHNICAL ENGINEER TO INSPECT, REPORT AND CHECK THE DESIGN PROFILE AND THE INSITU MATERIAL FOR LONG TERM STABILITY. DESIGN AMENDMENTS AND ANY RETAINING WALLS SHALL BE FINALIZED TO COUNCIL'S APPROVALS PRIOR TO COMMENCEMENT OF ANY OF THESE EARTHWORKS.
- ALL BOUNDARIES WITH EXISTING CREEKS AND VEGETATION MUST BE TEMPORARILY DELINEATED AND FENCED OFF/SEGREGATED TO RESTRICT BUILDING ACCESS FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL ENSURE THE PROPOSED CONSTRUCTION EQUIPMENT TO BE USED ON THE SITE WILL NOT DAMAGE EXISTING UNDERGROUND INFRASTRUCTURE, IN PARTICULAR HEAVY EQUIPMENT TRAVERSING OVER A.C. MAINS WITH NOMINAL COVERS.

**WATER RETICULATION NOTES**

- VALVES AND HYDRANTS MUST BE LOCATED OPPOSITE BOUNDARY JUNCTIONS AND TRUNCATIONS.
- WATER SUPPLY FITTINGS ARE TO INCORPORATE SOCKETS WITH AN EFFECTIVE SEALING LENGTH EQUAL OR GREATER THAN THAT OF THE uPVC PIPE USED.
- ALIGNMENT OF WATER RETICULATION MAINS WITHIN ROAD RESERVES TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAIRNS REGIONAL COUNCIL.
- INSTALLATION OF VALVES AND FIRE HYDRANTS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAIRNS REGIONAL COUNCIL.
- ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.
- FOR DETAILS FOR KERB AND PAVEMENT MARKINGS AND RETROREFLECTIVE MARKERS AT HYDRANTS REFER TO FNQROC STANDARD DRAWINGS S2005 AND S2010.
- THE CONTRACTOR SHALL MAKE ALL APPLICATIONS AND PAY ALL FEES TO COUNCIL FOR THE WATER SUPPLY WORKS AND SHALL ARRANGE AND MANAGE COUNCIL'S INSPECTIONS AND TESTING OF THE WORKS. A COPY OF THE COUNCIL'S INSPECTIONS CERTIFICATE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUPER PRIOR TO PRACTICAL COMPLETION.
- PROVIDE A COMPRESSIBLE LAYER BETWEEN ALL EXISTING AND PROPOSED HYDRANT OR VALVE SURROUNDS WITHIN AREAS OF NEW CONCRETE.

**ENVIRONMENTAL PROTECTION AND EROSION SEDIMENT CONTROL**


- THE CONTRACTOR IS RESPONSIBLE WITHIN THE LIMITS IMPOSED BY THE WORKS, TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND AVOID POLLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL MEASURES CONFORMING WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

**EROSION SEDIMENT CONTROL STRATEGY AND ENVIRONMENTAL PROTECTION**

- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND SHALL AVOID ENVIRONMENTAL POLLUTION IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION ACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL AND MANAGEMENT MEASURES CONFORMING TO THE REQUIREMENTS OF THE ACT AND THE RELEVANT AUTHORITIES.
- THE EROSION AND SEDIMENT CONTROL STRATEGY, SHOWN OR NOTED ON THESE DRAWINGS, HAS BEEN PROVIDED AS A GUIDE.
- THE CONTRACTOR SHALL PROVIDE AN EROSION SEDIMENT CONTROL PLAN (ESCP) FOR EACH PHASE OF HIS PROPOSED CONSTRUCTION PROGRAM AND WORK METHODS, AND IS WHOLLY RESPONSIBLE FOR THE IMPLEMENTATION, CONTROL AND MANAGEMENT OF SUCH PLAN.
- THE CONTRACTOR SHALL INSTALL ALL DEVICES/MEASURES NECESSARY TO COMPLY WITH THE PROVISIONS OF THE ESCP FNQROC DEVELOPMENT MANUAL, THE ENVIRONMENTAL PROTECTION ACT, AND COUNCIL REQUIREMENTS.
- THE ESCP SHALL INCLUDE SUCH MEASURES AS SHOWN ON THE STRATEGIC PLAN.
- PDR ENGINEERS DO NOT ACCEPT RESPONSIBILITY FOR THE CONTRACTOR'S DESIGN & IMPLEMENTATION OF HIS ESCP NOR THE CONSEQUENCES OF HIS FAILURE TO APPLY ALL REASONABLE CONTROLS.
- ALL STORMWATER INLETS, TRENCHES, ETC, SHALL BE CONSTRUCTED IN SUCH A WAY AS TO PREVENT THE ENTRY OF SEDIMENT INTO THE STRUCTURE. IF IT IS NECESSARY TO DISCHARGE INTO SUCH INLETS THEN SUITABLE SILT TRAPS SHALL BE CONSTRUCTED UPSTREAM OF THE INLETS SUCH THAT OVERFLOW FROM TRAPS ENTERS THE DRAINS AFTER THE SEDIMENT HAS DROPPED OUT.
- ALL SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE END OF THE MAINTENANCE PERIOD, UNLESS NOTED OTHERWISE. ALL SEDIMENT CONTROL DEVICES ARE TO BE FULLY MAINTAINED IN AN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL ENSURE THAT ALL SEDIMENT CONTROL DEVICES ARE KEPT FREE OF SEDIMENT BUILD-UP.
- SEDIMENT FENCES SHALL BE INSTALLED SUCH THAT THE BASE OF THE FENCE IS PLACED 150MM MINIMUM BELOW GROUND LEVEL, AND ANCHORED SECURELY IN SUCH POSITION.
- ALL VEHICLE EXIT POINTS SHALL HAVE SHAKER GRIDS, WASH BAYS OR SIMILAR TO PREVENT VEHICLES FROM TRACKING SOIL AND MUD OFF SITE.
- ALL SOIL STOCKPILES SHALL BE PROTECTED AGAINST WIND EROSION BY COVERING AND AGAINST STORMWATER RUNOFF BY SILT FENCES AT THE DOWNHILL SLOPES. STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND EROSION/CONTROL MEASURES IMPLEMENTED & MAINTAINED FOR THE LIFE OF THE STOCKPILE.
- THE CONTRACTOR SHALL INSTALL TURF STRIPS BEHIND ALL KERB & CHANNEL, ADJACENT CONCRETE INVERTS AND ALLOTMENT DRAINS ETC WHERE DIRTY WATER SHEET FLOWS INTO DRAINAGE COLLECTION SYSTEMS.
- DIVERT CLEAN WATER AROUND AREAS OF CONSTRUCTION.
- DRILL SEED ALL ROAD SHOULDERS, FOOTPATHS, DRAINS AND CUT BATTERS UP TO 1 ON 2 SLOPE WITH APPROVED GRASS SPECIES, FERTILIZED AND MAINTAIN FOR THE REQUIRED MAINTENANCE PERIOD
- HYDROMULCH ALL CUT AND FILL BATTERS STEEPER THAN 1 ON 2, WITH APPROVED SUITABLE GRASS SPECIES AND MAINTAIN FOR THE REQUIRED MAINTENANCE PERIOD
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILIZED CHUTE ADDRESSSED IN THE CONTRACTORS PLAN, e.g. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
- ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.

C	TITLEBLOCK REVISED	08.06.17
B	NOTES REVISED	24.05.17
A	FOR COUNCIL SUBMISSION	15.02.16
ISSUE	DESCRIPTION	DATE

Drawing Status
<b>FOR CONSTRUCTION</b>

SCALE N/A	Orig. Sheet A1
DO NOT SCALE DRAWINGS	
Scales Before Reduction	
	



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Client

**WALKER ROAD  
PTY LTD**

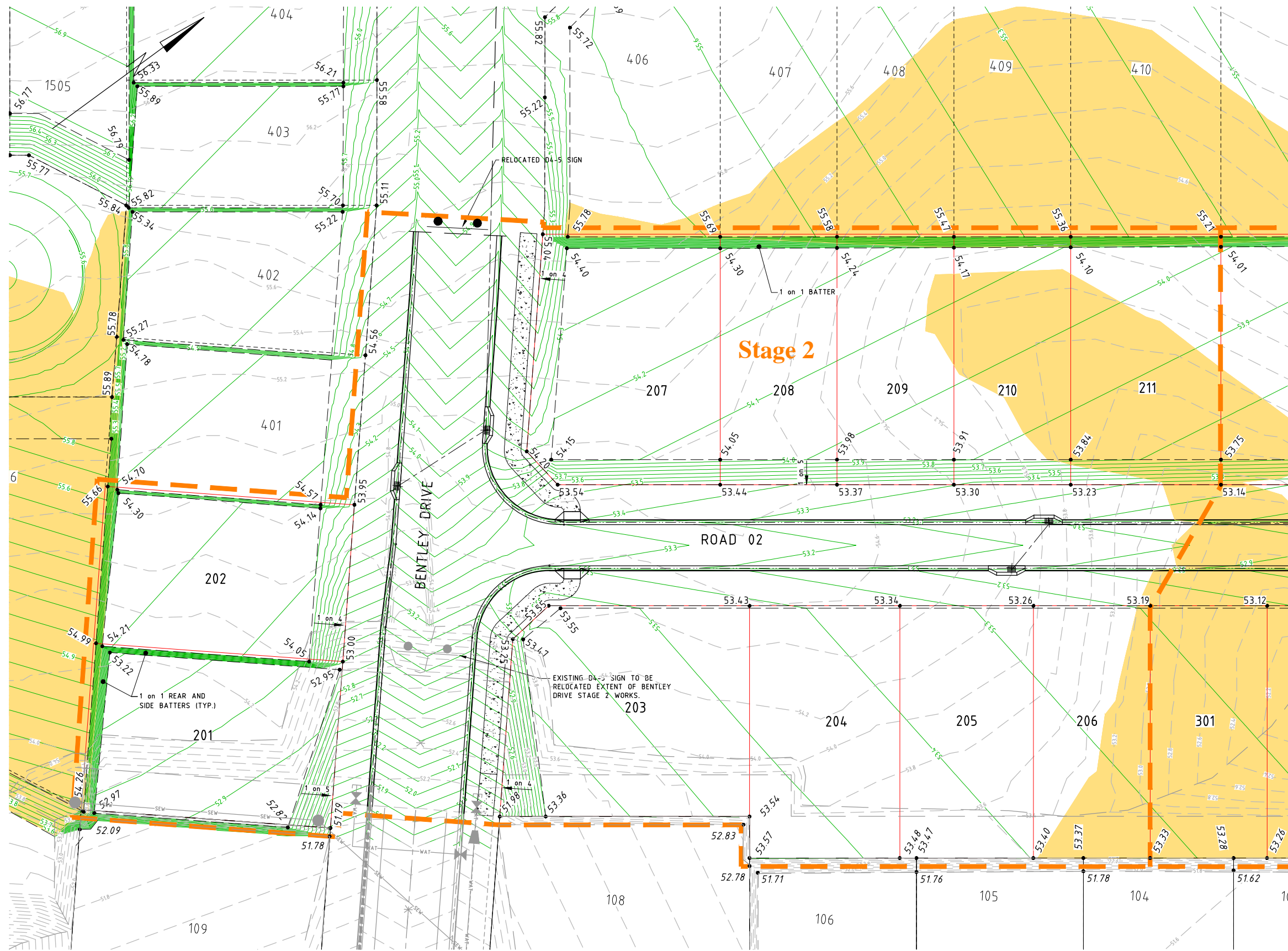
Project

**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title

**DRAWING SET NOTES**

Drawn <b>JP</b>	Designed <b>PAM</b>	Verified <b>RJB</b>
Approved <b>RJC</b>		Date <b>JUN 2017</b>
Drawing Number <b>15495 - C202</b>		Revision <b>C</b>



**LEGEND**

$\pm 18.70$	FINISHED SURFACE LEVEL
$\pm 18.68$	NATURAL SURFACE LEVEL
---	EXISTING PROPERTY BOUNDARIES
---	EXISTING SURFACE CONTOURS
---	EXISTING BATTER CHANGE IN GRADE
---	EXISTING ROAD CROWN
---	EXISTING KERBING
---	EXISTING CONCRETE FOOTPATH
---	EXISTING STORMWATER PIPES
SEW	EXISTING SEWER AND MH
WAT	EXISTING WATER MAIN VALVE AND ENDCAP
---	NEW BATTER
---	DESIGN SURFACE CONTOURS
---	NEW ROAD CROWN
---	NEW LAYBACK KERB AND CHANNEL
○	NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT
---	NEW DRAINAGE PIPES
---	PROPOSED LOT BOUNDARIES
---	FUTURE LOT BOUNDARIES
---	AREA OF FILL
---	KERB RAMP AND CONCRETE FOOTPATH
---	STAGE BOUNDARY

FOR EARTHWORKS, SUBGRADE AND FILL NOTES REFER TO DRG 15495-C202.  
 FOR TYPICAL STAGE INTERFACE BATTER DETAILS REFER TO DRG 15495-C204.

**PLAN**  
1:250

ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	EARTHWORKS REVISED	24.05.17
B	TEMPORARY DRAIN AMMEDED	12.05.16
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:250  
 DO NOT SCALE DRAWINGS  
 Scales Before Reduction  
 2.5 0 2.5 5 7.5 10 12.5 m

Orig. Sheet A1

**JACOBS**

ABN 37 001 024 095 and ACN 001 024 095  
 Jacobs Group (Australia) Pty Ltd  
 2 James Street  
 CAIRNS, QLD 4870  
 AUSTRALIA

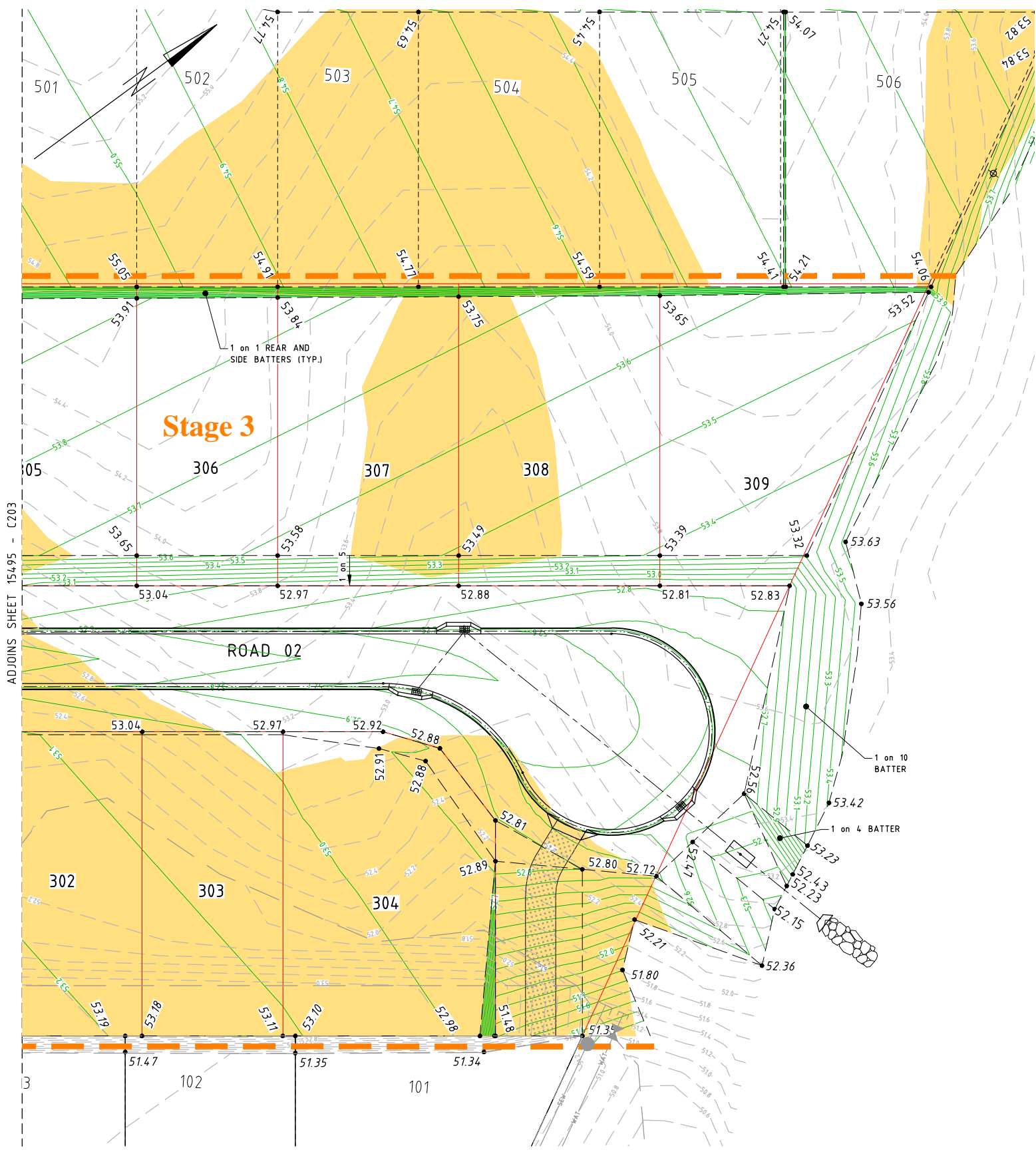
Tel: +61 7 4031 4599  
 Fax: +61 7 4031 3967  
 Web: www.jacobs.com

Client  
**WALKER ROAD PTY LTD**

Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**EARTHWORKS PLAN SHEET 1 OF 2**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C203	D	



ADJOINS SHEET 15495 - C203

**Stage 3**

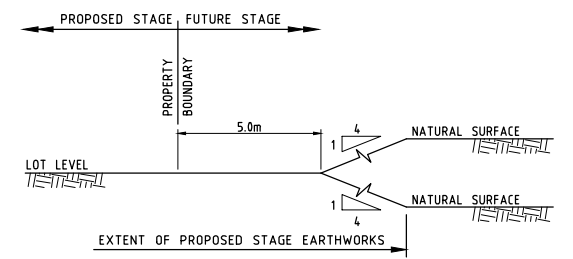
ROAD 02

**PLAN**  
1:250

**LEGEND**

- 18.70 FINISHED SURFACE LEVEL
- 18.68 NATURAL SURFACE LEVEL
- EXISTING PROPERTY BOUNDARIES
- EXISTING SURFACE CONTOURS
- EXISTING BATTER CHANGE IN GRADE
- EXISTING ROAD CROWN
- EXISTING KERBING
- EXISTING CONCRETE FOOTPATH
- EXISTING STORMWATER PIPES
- EXISTING SEWER AND MH
- EXISTING WATER MAIN VALVE AND ENDCAP
- NEW BATTER
- DESIGN SURFACE CONTOURS
- NEW ROAD CROWN
- NEW LAYBACK KERB AND CHANNEL
- NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT
- NEW DRAINAGE PIPES
- PROPOSED LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- AREA OF FILL
- STAGE BOUNDARY

FOR EARTHWORKS, SUBGRADE AND FILL NOTES REFER TO DRG 15495-C202.



**TYPICAL SECTION - INTERFACE BATTER DETAILS**  
N.T.S.

ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	EARTHWORKS REVISED	24.05.17
B	TEMPORARY DRAIN AMMEDED - Q100 SWALE AMMEDED	12.05.16
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:250  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
2.5 0 2.5 5 7.5 10 12.5 m

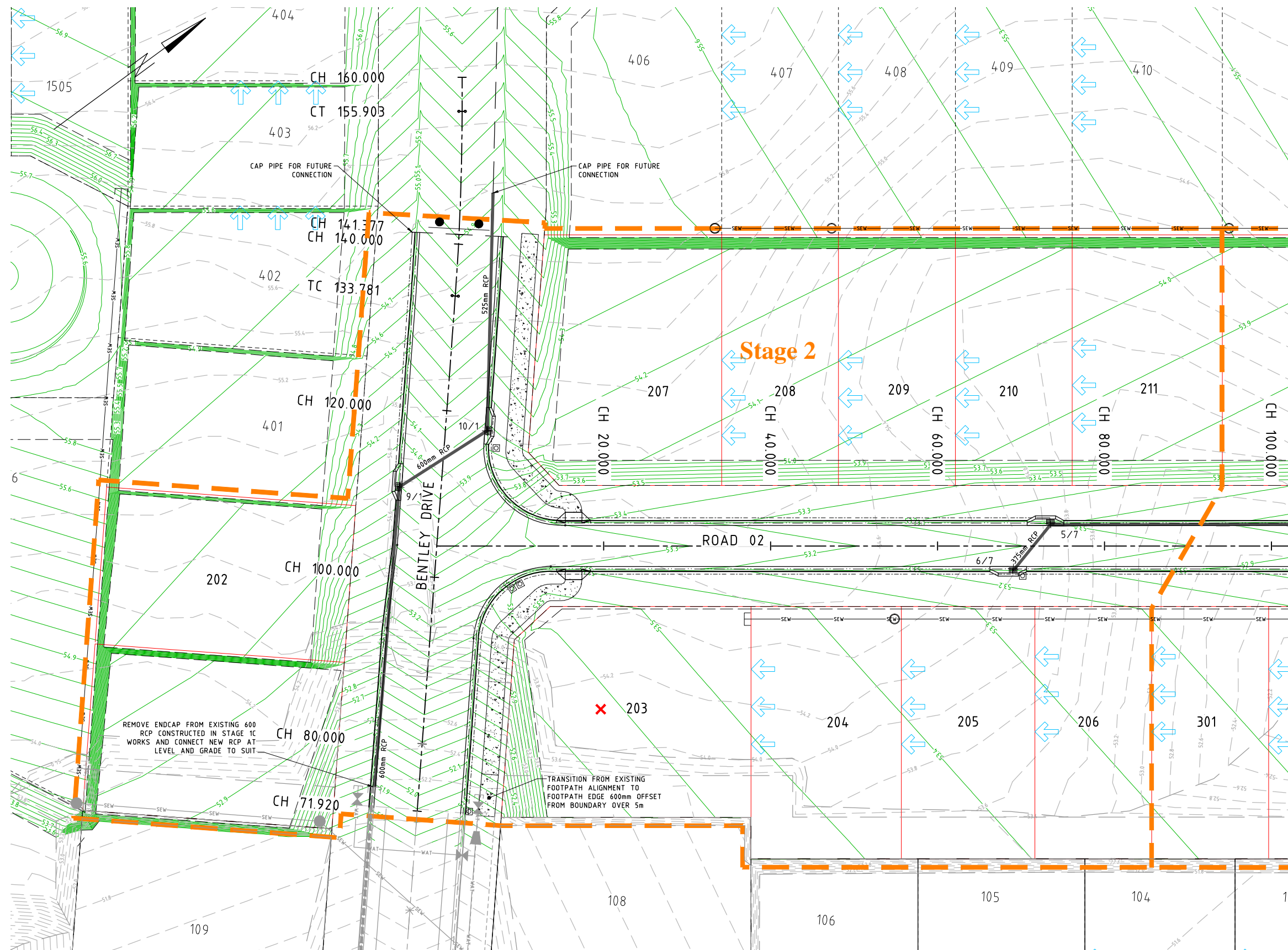
**JACOBS**  
ABN 37 001 024 025 and ACN 001 024 095  
Jacobs Group (Australia) Pty Ltd  
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Web: www.jacobs.com

Client  
**WALKER ROAD PTY LTD**

Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**EARTHWORKS PLAN SHEET 2 OF 2**

Drawn	Designed	Verified
JP	PAM	RJB
Approved RJC		Date JUN 2017
Drawing Number 15495 - C204		Revision D



### LEGEND

- EXISTING PROPERTY BOUNDARIES
- EXISTING SURFACE CONTOURS
- EXISTING BATTER CHANGE IN GRADE
- EXISTING ROAD CROWN
- EXISTING KERBING
- EXISTING CONCRETE FOOTPATH
- EXISTING STORMWATER PIPES
- EXISTING SEWER AND MH
- EXISTING WATER MAIN VALVE AND ENDCAP
- NEW BATTER
- DESIGN SURFACE CONTOURS
- NEW ROAD CROWN
- NEW LAYBACK KERB AND CHANNEL
- NEW KERB INLET PIT WITH PIT LABEL
- NEW DRAINAGE PIPE AND SIZE
- PROPOSED LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- NEW SEWER MANHOLE AND MAIN
- SUBSOIL DRAIN AND FLUSH POINT
- KERB RAMP AND CONCRETE FOOTPATH (2.0m WIDE)
- PROVIDE 3x100Ø uPVC ROOFWATER PIPES AS PER FNQROC STD DRG 1035
- STAGE BOUNDARY
- BUILD TO BOUNDARY LINE

FOR ROADWORKS NOTES REFER TO DRG 15495-C202.  
 FOR ROAD CONTROL LINE & STORMWATER SETOUT DETAILS REFER TO DRG 15495-C206.  
 FOR STORMWATER SETOUT CO-ORDINATES REFER TO DRAINAGE LONG SECTIONS.

PLAN  
1:250

ISSUE	DESCRIPTION	DATE
E	BUILD TO BOUNDARY LINE SHOWN	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	DRAINAGE REVISED	26.05.17
B	EARTHWORKS AMMEDED	12.05.16
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:250  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
2.5 0 2.5 5 7.5 10 12.5 m

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 Web: www.jacobs.com

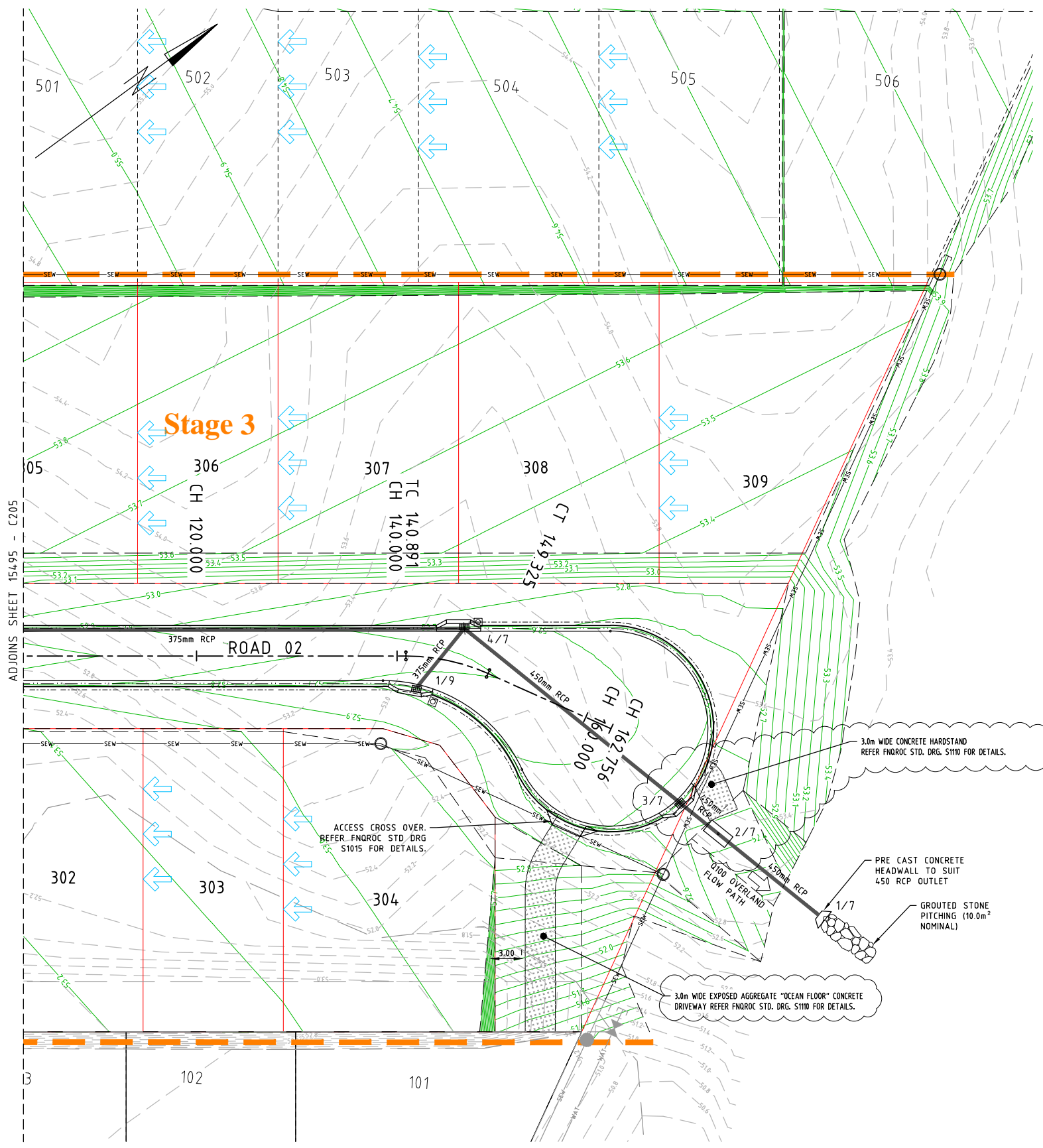
Client  
**WALKER ROAD PTY LTD**

Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**ROADWORKS AND DRAINAGE PLAN SHEET 1 OF 2**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C205	E	

ADJOINS SHEET 15495 - C205



**PLAN**  
1:250

**LEGEND**

- EXISTING PROPERTY BOUNDARIES
- EXISTING SURFACE CONTOURS
- EXISTING BATTER CHANGE IN GRADE
- EXISTING ROAD CROWN
- EXISTING KERBING
- EXISTING CONCRETE FOOTPATH
- EXISTING STORMWATER PIPES
- EXISTING SEWER AND MH
- EXISTING WATER MAIN VALVE AND ENDCAP
- NEW BATTER
- DESIGN SURFACE CONTOURS
- NEW ROAD CROWN
- NEW LAYBACK KERB AND CHANNEL
- NEW STORMWATER STRUCTURES - KERB INLET PIT WITH PIT LABEL
- GROSS POLLUTANT TRAP - SOLID
- NEW DRAINAGE PIPE AND SIZE
- PROPOSED LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- NEW SEWER MANHOLE AND MAIN
- SUBSOIL DRAIN AND FLUSH POINT
- STAGE BOUNDARY

FOR ROADWORKS NOTES REFER TO DRG 15495-C202.

**CONTROL LINE ROAD 01 SETOUT**

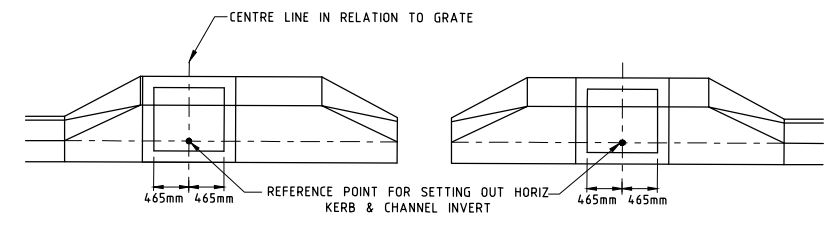
CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	363357.825	8118956.291	267° 45' 35"	STRAIGHT		
18.166	363339.673	8118955.581	267° 45' 35"	30.000		
IP 29.359	363327.939	8118955.122	-	30.000	11.743	22.386
40.553	363319.011	8118962.750	310° 30' 51"	STRAIGHT		
133.786	363248.131	8119023.318	310° 30' 51"	-300.000		
IP 144.847	363239.718	8119030.507	-	-300.000	11.066	22.122
155.908	363230.798	8119037.057	306° 17' 21"	STRAIGHT		
231.082	363170.205	8119081.549	306° 17' 21"	100.000		
IP 234.969	363167.070	8119083.851	-	100.000	3.889	7.774
238.856	363164.124	8119086.389	310° 44' 35"	-99.998		
IP 242.735	363161.183	8119088.922	-	-99.998	3.881	7.759
246.615	363158.055	8119091.220	306° 17' 51"	STRAIGHT		
360.526	363066.248	8119158.653	306° 17' 51"	-100.000		
IP 365.813	363061.982	8119161.786	-	-100.000	5.292	10.574
371.101	363057.410	8119164.451	300° 14' 20"	100.000		
IP 376.388	363052.838	8119167.116	-	100.000	5.292	10.574
381.675	363048.573	8119170.249	306° 17' 51"	STRAIGHT		
469.584	362977.722	8119222.289	306° 17' 51"	100.000		
IP 474.850	362973.474	8119225.409	-	100.000	5.271	10.532
480.116	362969.578	8119228.959	312° 19' 54"	-100.000		
IP 485.396	362965.671	8119232.518	-	-100.000	5.285	10.561
490.677	362961.410	8119235.646	306° 16' 51"	STRAIGHT		
539.449	362922.094	8119264.506	306° 16' 51"	-30.000		
IP 544.876	362917.670	8119267.753	-	-30.000	5.488	10.855
550.304	362912.383	8119269.225	285° 32' 57"	STRAIGHT		
557.145	362905.793	8119271.058	285° 32' 57"	STRAIGHT		

**CONTROL LINE ROAD 02 SETOUT**

CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	363270.960	8119003.810	36° 16' 51"	STRAIGHT		
140.891	363354.331	8119117.386	36° 16' 51"	20.000		
IP 145.108	363356.864	8119120.837	-	20.000	4.281	8.434
149.325	363360.588	8119122.948	60° 26' 35"	STRAIGHT		
162.756	363372.272	8119129.574	60° 26' 35"	STRAIGHT		

**STORMWATER SETOUT**

- HEADWALL SETOUT POINTS TO CENTRE OF PIPE OUTLET.
- SETOUT OF GROSS POLLUTANT TRAP IS TO CENTRE OF THE PIT
- REFER DETAIL THIS DRAWING FOR KERB INLET PIT SETOUT DETAILS.



**GRATED KERB INLET PIT SETOUT REFERENCE POINT**  
SCALE: NTS

ISSUE	DESCRIPTION	DATE
E	BUILD TO BOUNDARY LINE SHOWN	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	DRAINAGE REVISED	26.05.17
B	EARTHWORKS AMMEDED	12.05.16
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status

**FOR CONSTRUCTION**

SCALE 1:250

Orig. Sheet A1

**DO NOT SCALE DRAWINGS**

Scales Before Reduction

**JACOBS**

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Client

**WALKER ROAD  
PTY LTD**

Project

**CHERRYBROOK  
STAGES 2 AND 3**

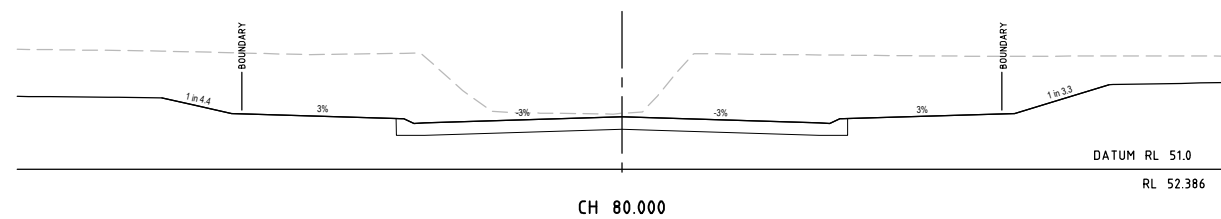
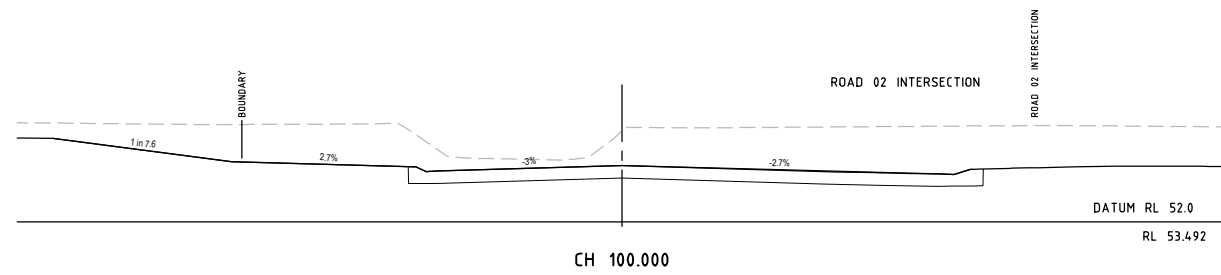
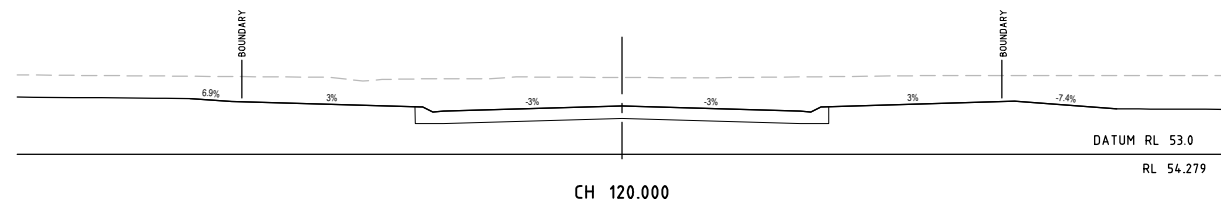
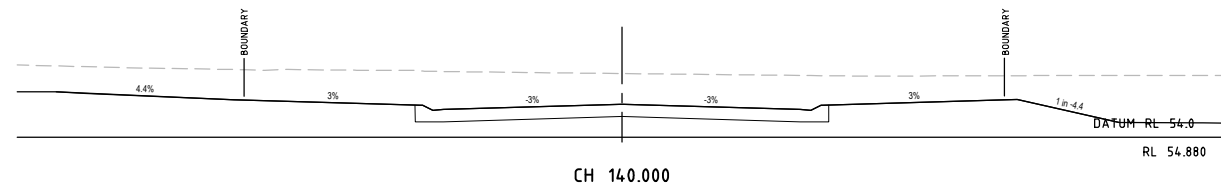
Drawing Title

**ROAD WORKS AND DRAINAGE  
PLAN  
SHEET 2 OF 2**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C206	E	







ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	CROSS SECTIONS REVISED	24.05.17
B	225 DIA WATER MAIN ADDED TO SECTIONS CH130-141.62	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:100  
 DO NOT SCALE DRAWINGS  
 Scales Before Reduction

Orig. Sheet  
 A1

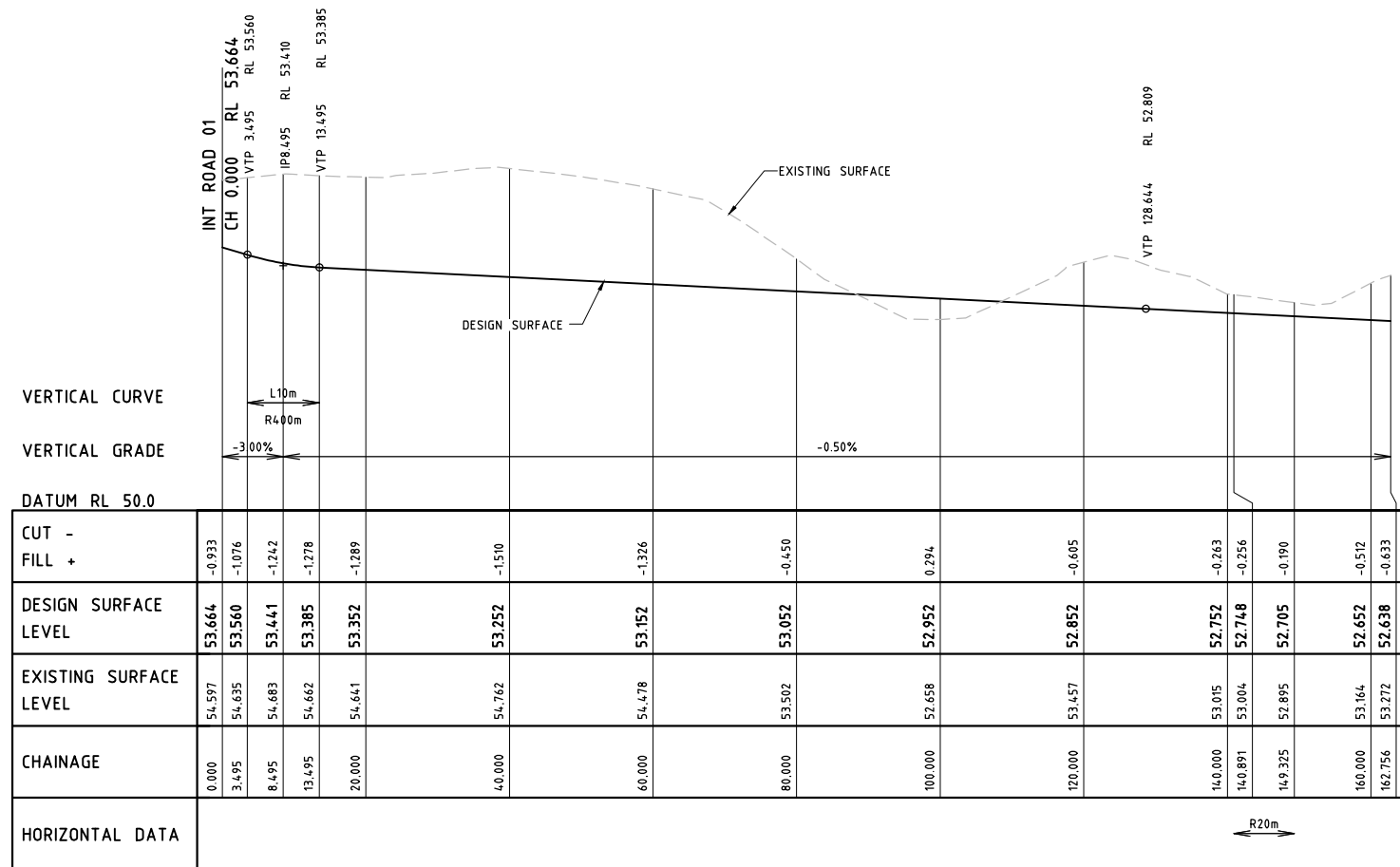


Client  
**WALKER ROAD  
 PTY LTD**

Project  
**CHERRYBROOK  
 STAGES 2 AND 3**

Drawing Title  
**BENTLEY DRIVE  
 CROSS SECTIONS**

Drawn	Designed	Verified
JP	PAM	RJB
Approved RJC		Date JUN 2017
Drawing Number 15495 - C208		Revision D



LONGITUDINAL SECTION ROAD 02

HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50

ISSUE	DESCRIPTION	DATE
C	TITLEBLOCK REVISED	08.06.17
B	LONGITUDINAL SECTION REVISED	26.05.17
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE N/A  
 DO NOT SCALE DRAWINGS  
 Scales Before Reduction

Orig. Sheet  
 A1

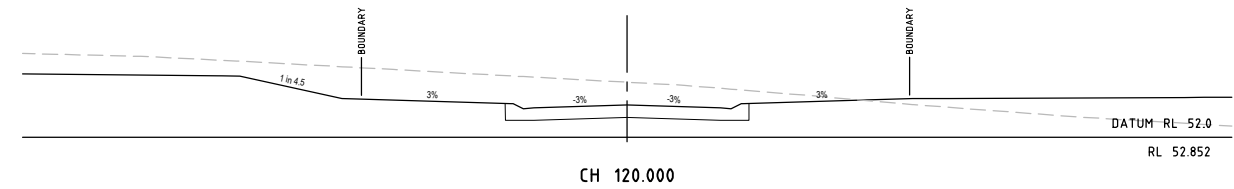
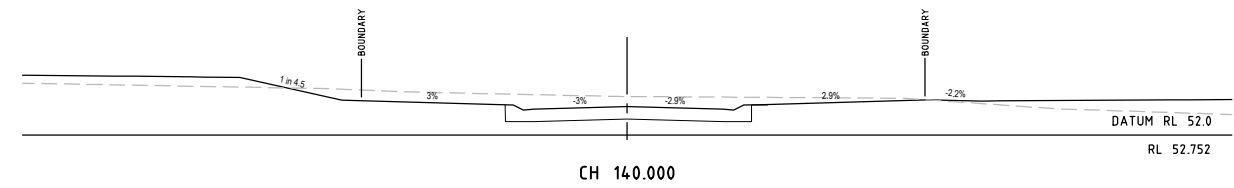
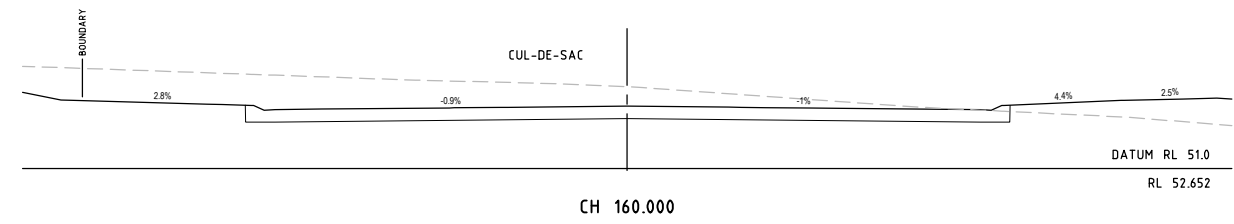
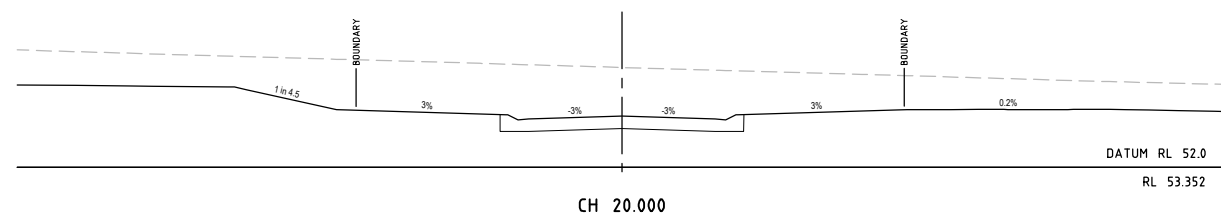
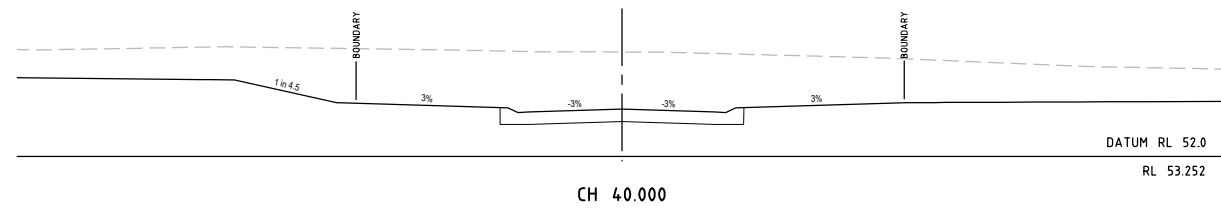
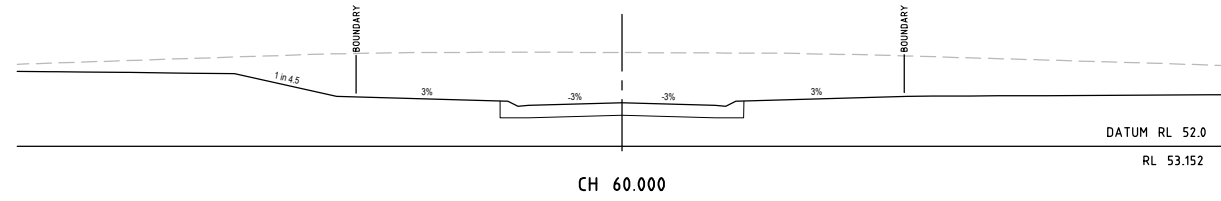
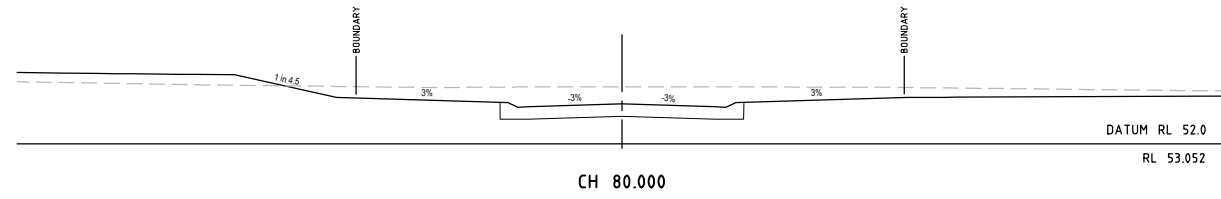
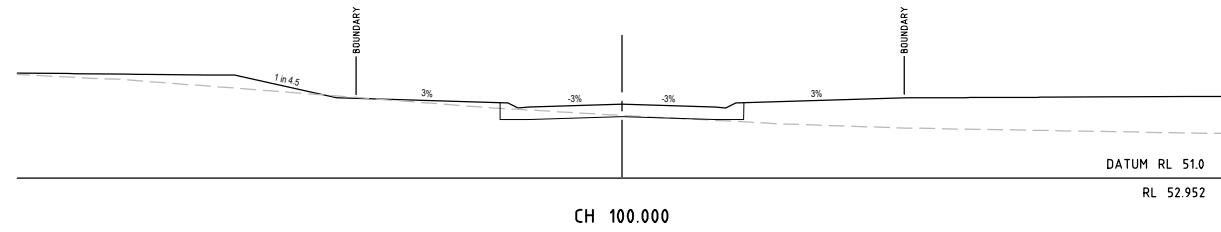


Client  
**WALKER ROAD  
 PTY LTD**

Project  
**CHERRYBROOK  
 STAGES 2 AND 3**

Drawing Title  
**ROAD 02  
 LONGITUDINAL SECTION**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C209	C	



ISSUE	DESCRIPTION	DATE
C	TITLEBLOCK REVISED	08.06.17
B	CROSS SECTIONS REVISED	26.05.17
A	FOR COUNCIL SUBMISSION	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:100  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
1 0 1 2 3 4 5 m

Orig. Sheet  
A1

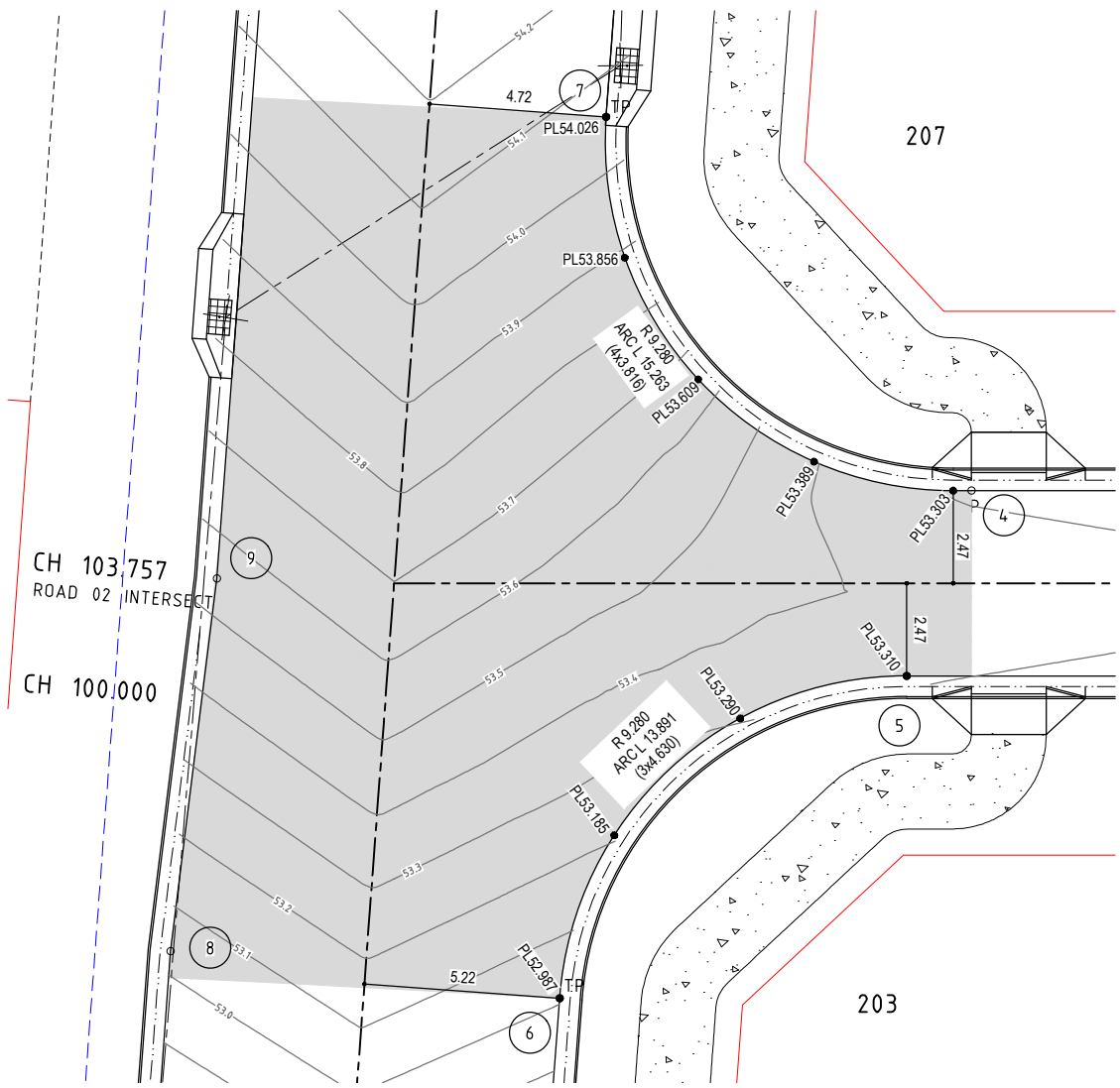


Client  
**WALKER ROAD  
PTY LTD**

Project  
**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title  
**ROAD 02  
CROSS SECTIONS**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C210	C	

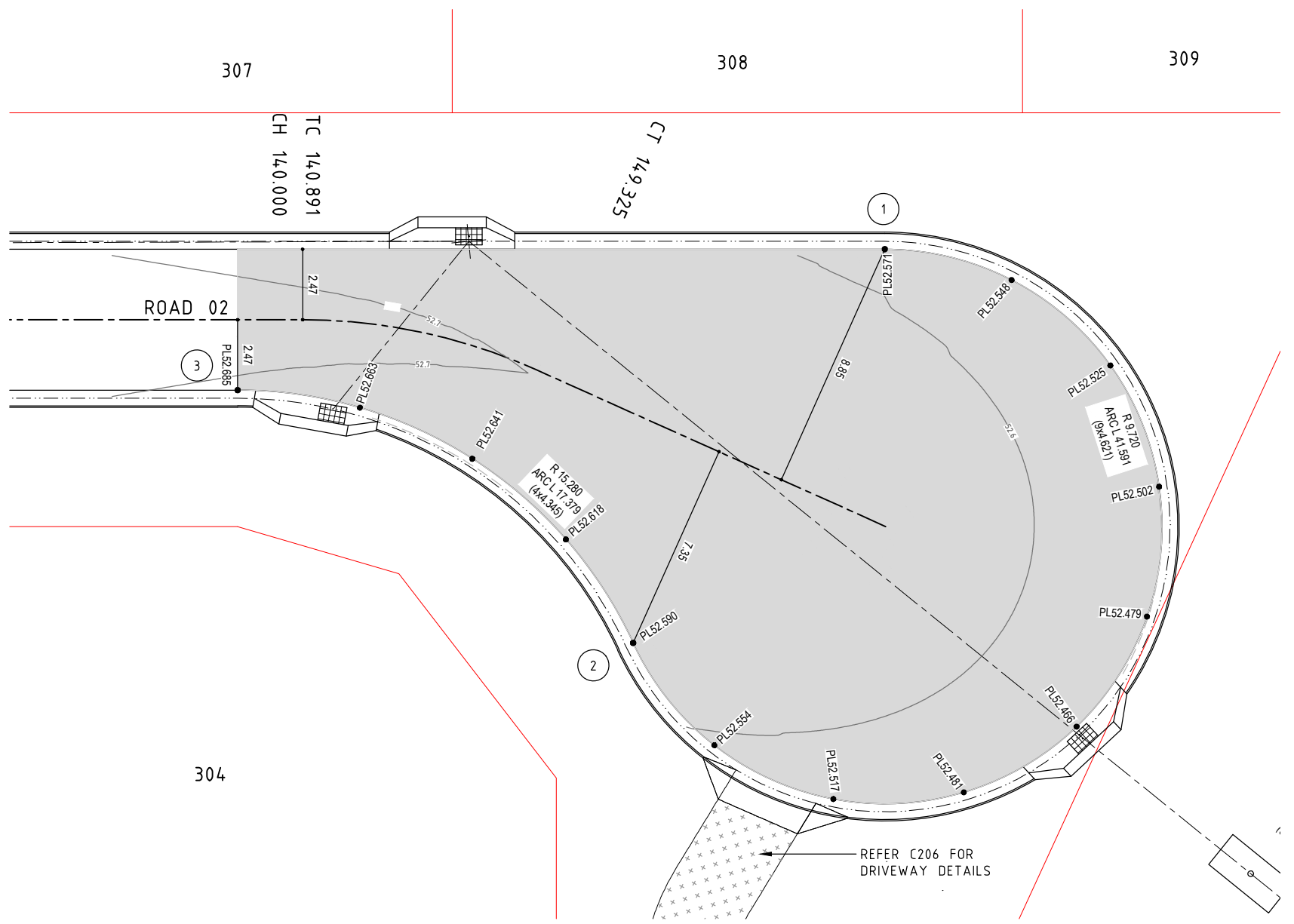


**INTERSECTION SETOUT PLAN**

1:100

BENTLEY DRIVE AND ROAD 02 INTERSECTION

PT	EASTING	NORTHING
4	363278.078	8119017.681
5	363281.041	8119013.368
6	363282.493	8119000.822
7	363264.281	8119015.726
8	363275.344	8118993.198
9	363268.067	8119000.074



**CUL DE SAC SETOUT PLAN**

1:100

ROAD 02 CUL DE SAC

PT	EASTING	NORTHING
1	363364.416	8119135.298
2	363370.323	8119120.020
3	363354.973	8119114.085

**LEGEND**

- DESIGN SURFACE CONTOURS
- NEW ROAD CROWN
- NEW LAYBACK KERB AND CHANNEL
- NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT WITH PIT LABEL
- PROPOSED LOT BOUNDARIES
- 50mm ASPHALT SURFACING TO INTERSECTION AND CUL DE SAC EXTENTS

ISSUE	DESCRIPTION	DATE
C	TITLEBLOCK REVISED	08.06.17
B	INTERSECTION AND CUL DE SAC REVISED	26.05.17
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:100  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
1000 0 1000 2000 3000 4000 5000 mm

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Client  
**WALKER ROAD PTY LTD**

Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**INTERSECTION AND CUL DE SAC SETOUT PLAN**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C211	C	



**LEGEND**

- EXISTING PROPERTY BOUNDARIES
- - - - -24.0 EXISTING SURFACE CONTOURS
- - - - - EXISTING BATTER CHANGE IN GRADE
- - - - - EXISTING ROAD CROWN
- ==== EXISTING KERBING
- - - - - NEW BATTER
- - - - -24.0 DESIGN SURFACE CONTOURS
- - - - - NEW ROAD CROWN
- ==== NEW LAYBACK KERB AND CHANNEL
- NEW KERB INLET PIT
- NEW DRAINAGE PIPE AND SIZE
- - - - - PROPOSED LOT BOUNDARIES
- - - - - FUTURE LOT BOUNDARIES
- CATCHMENT BOUNDARY
- ➔ OVERLAND FLOW

PLAN  
1:500

ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	CATCHMENT BOUNDARIES REVISED	24.05.17
B	ULTIMATE CATCHMENT INFORMATION ADDED	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:500  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
0 5 10 15 20 25 m

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 Web: www.jacobs.com

Client  
**WALKER ROAD  
PTY LTD**

Project  
**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title  
**DRAINAGE CATCHMENT PLAN**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C212	D	

STRUCTURE NAME	11/1	10/1	9/1	8/1
STRUCTURE DESCRIPTION	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S
PIPE SIZE (mm)	525	600	600	
PIPE CLASS	RCP (2)	RCP (2)	RCP (2)	
PIPE GRADE (%)	2.70%	1.89%	5.91%	
PIPE SLOPE (1 in X)	37.01	53.04	16.93	
FULL PIPE VELOCITY (m/s)	3.10	2.37	2.60	
PART FULL VELOCITY (m/s)	3.72	3.31	5.26	
DATUM RL	49.0		44.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.704 55.704 55.551	53.592 53.629 53.361	53.213 53.230 52.793	49.528 49.528
PIPE FLOW (Cumecs)	0.671	0.669	0.736	
PIPE CAPACITY AT GRADE (Cumecs)	0.707	0.843	1.493	
DEPTH TO INVERT	1.838 1.858	1.583 1.603	1.570 1.590	1.734 1.759
INVERT LEVEL OF DRAIN	54.662 54.642	52.468 52.448	52.213 52.193	48.720 48.695
DESIGN SURFACE LEVEL	56.501	54.051	53.783	50.454
SETOUT COORDINATES	286.431 E 363199.740 N 8119066.065	366.902 E 363263.403 N 8119016.845	379.388 E 363262.591 N 8119004.385	438.182 E 363306.963 N 8118965.811
CHAINAGE	80.471	12.486	58.794	

STRUCTURE NAME	6/7	5/7	4/7	3/7	2/7	1/7	1/9	4/7
STRUCTURE DESCRIPTION	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S	SAG KERB INLET PIT; LINTEL TYPE S	GROSS POLLUTANT TRAP ECOSOL 4300	HEADWALL	ON-GRADE KERB INLET PIT; LINTEL TYPE S	ON-GRADE KERB INLET PIT; LINTEL TYPE S
PIPE SIZE (mm)	375	375	450	450	450	375	375	375
PIPE CLASS	RCP (2)	RCP (2)	RCP (2)	RCP (2)	RCP (2)	RCP (2)	RCP (2)	RCP (2)
PIPE GRADE (%)	0.40%	0.71%	0.80%	2.00%	2.00%	0.50%	0.50%	0.50%
PIPE SLOPE (1 in X)	250.00	14.126	125.00	50.00	50.00	200.00	200.00	200.00
FULL PIPE VELOCITY (m/s)	0.44	0.91	1.29	1.85	1.84	0.43	0.43	0.43
PART FULL VELOCITY (m/s)	0.97	1.44	1.78	2.77	2.77	1.05	1.05	1.05
DATUM RL	46.0					46.0		
H.G.L IN PIPE & W.S.E IN STRUCTURE	52.598 52.515 52.510 52.514 52.406	52.167 52.175 52.022	51.879 51.879 51.644	51.617 51.617 51.408	50.985 50.985 50.985	52.234 52.172 52.167 52.175 52.022	52.234 52.172 52.167 52.175 52.022	52.234 52.172 52.167 52.175 52.022
PIPE FLOW (Cumecs)	0.048	0.100	0.205	0.294	0.293	0.048	0.048	0.048
PIPE CAPACITY AT GRADE (Cumecs)	0.111	0.148	0.255	0.403	0.405	0.124	0.124	0.124
DEPTH TO INVERT	1.053	1.231	1.366	1.349	1.369	1.217	1.217	1.217
INVERT LEVEL OF DRAIN	51.960	51.932	51.319	51.078	50.958	51.431	51.431	51.431
DESIGN SURFACE LEVEL	53.013	52.990	52.624	52.448	52.453	52.624	52.624	52.624
SETOUT COORDINATES	0.000 E 363314.036 N 8119057.845	7.085 E 363312.246 N 8119064.700	80.285 E 363355.561 N 8119237.709	107.814 E 363382.183 N 8119190.719	112.838 E 363387.041 N 8119191.999	125.731 E 363399.509 N 8119195.282	0.000 E 363357.487 N 8119116.397	7.561 E 363355.561 N 8119123.709
CHAINAGE	73.200	73.200	27.529	5.024	12.893	7.561	7.561	7.561

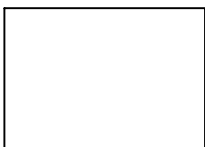
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



ISSUE	DESCRIPTION	DATE
E	GPT MOVED UPSTREAM	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	LONG SECTIONS REVISED	26.05.17
B	FLOW THROUGH 10/1 ADDED	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE N/A  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction



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Client  
**WALKER ROAD  
PTY LTD**
















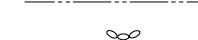

Project  
**CHERRYBROOK  
STAGES 2 AND 3**

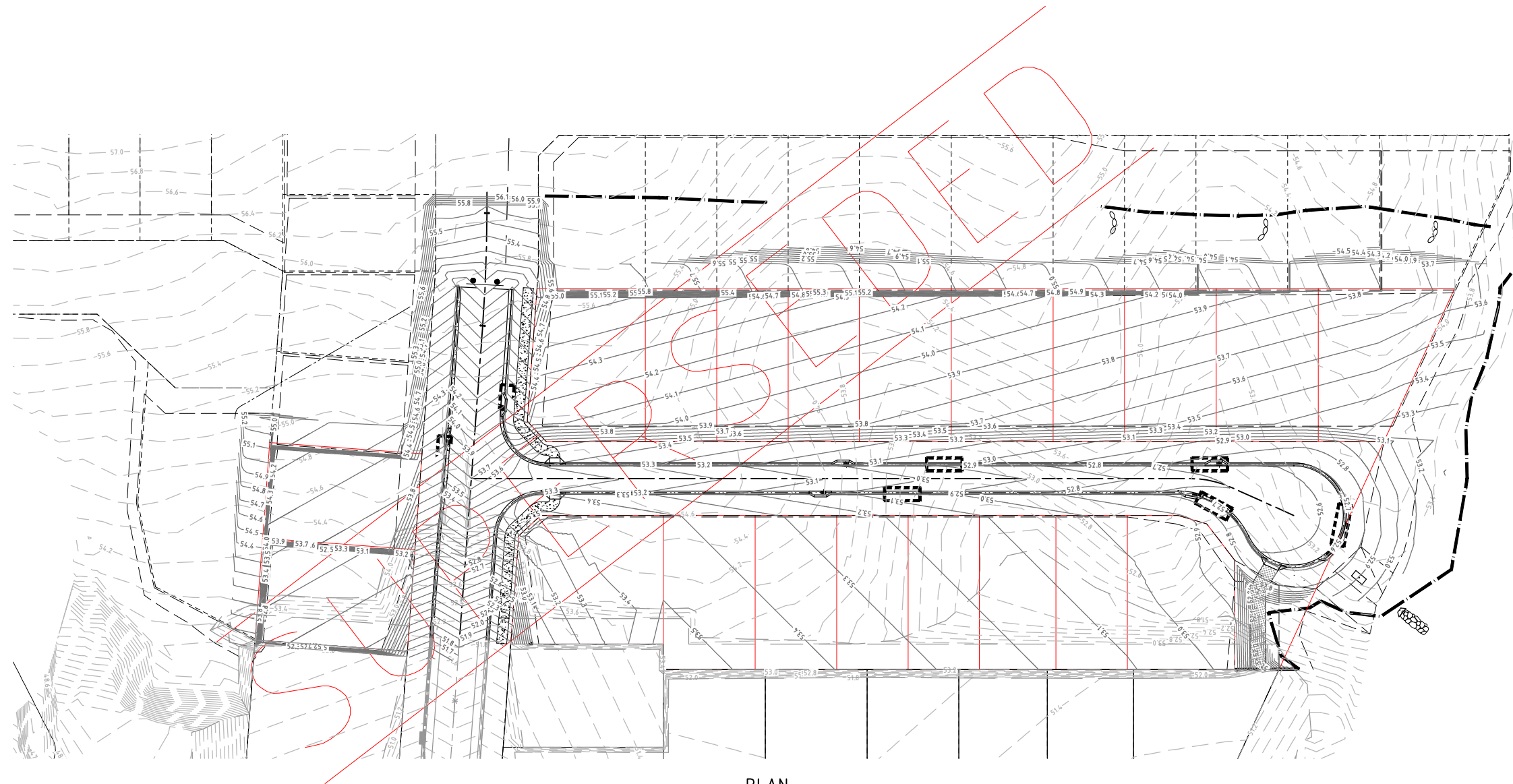
Drawing Title  
**DRAINAGE LONGITUDINAL  
SECTIONS**

Drawn	Designed	Verified
JP	PAM	RJB
Approved RJC	Date JUN 2017	Revision E
Drawing Number 15495 - C213		



**LEGEND**

-  EXISTING PROPERTY BOUNDARIES
-  EXISTING SURFACE CONTOURS
-  EXISTING BATTER CHANGE IN GRADE
-  EXISTING ROAD CROWN
-  EXISTING KERBING
-  NEW BATTER - TOE
-  DESIGN SURFACE CONTOURS
-  NEW ROAD CROWN
-  NEW LAYBACK KERB AND CHANNEL
-  NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT
-  PROPOSED LOT BOUNDARIES
-  FUTURE LOT BOUNDARIES
-  SAND BAGS AROUND STORMWATER INLETS
-  SILT FENCE
-  TEMPORARY CUT DRAINAGE PATH
-  ROCK CHECK DAMS ALONG TEMPORARY DRAINAGE PATH
-  SAND BAGS ALONG KERBS



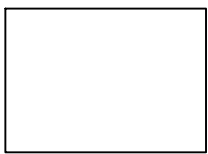
**PLAN**  
1:500

THIS DRAWING IS SUPERSEDED BY JACOBS DRAWING IH035500-CI-DG-0413 TO 0415 ON THE BASIS THAT STAGES 2, 3 & 4 WILL BE CONSTRUCTED CONCURRENTLY.

ISSUE	DESCRIPTION	DATE
D	TITLEBLOCK REVISED	08.06.17
C	PLAN SUPERSEDED BY DRGS	24.05.17
B	EARTHWORKS AMHEDMENTS	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:500  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
0 5 10 15 20 25 m



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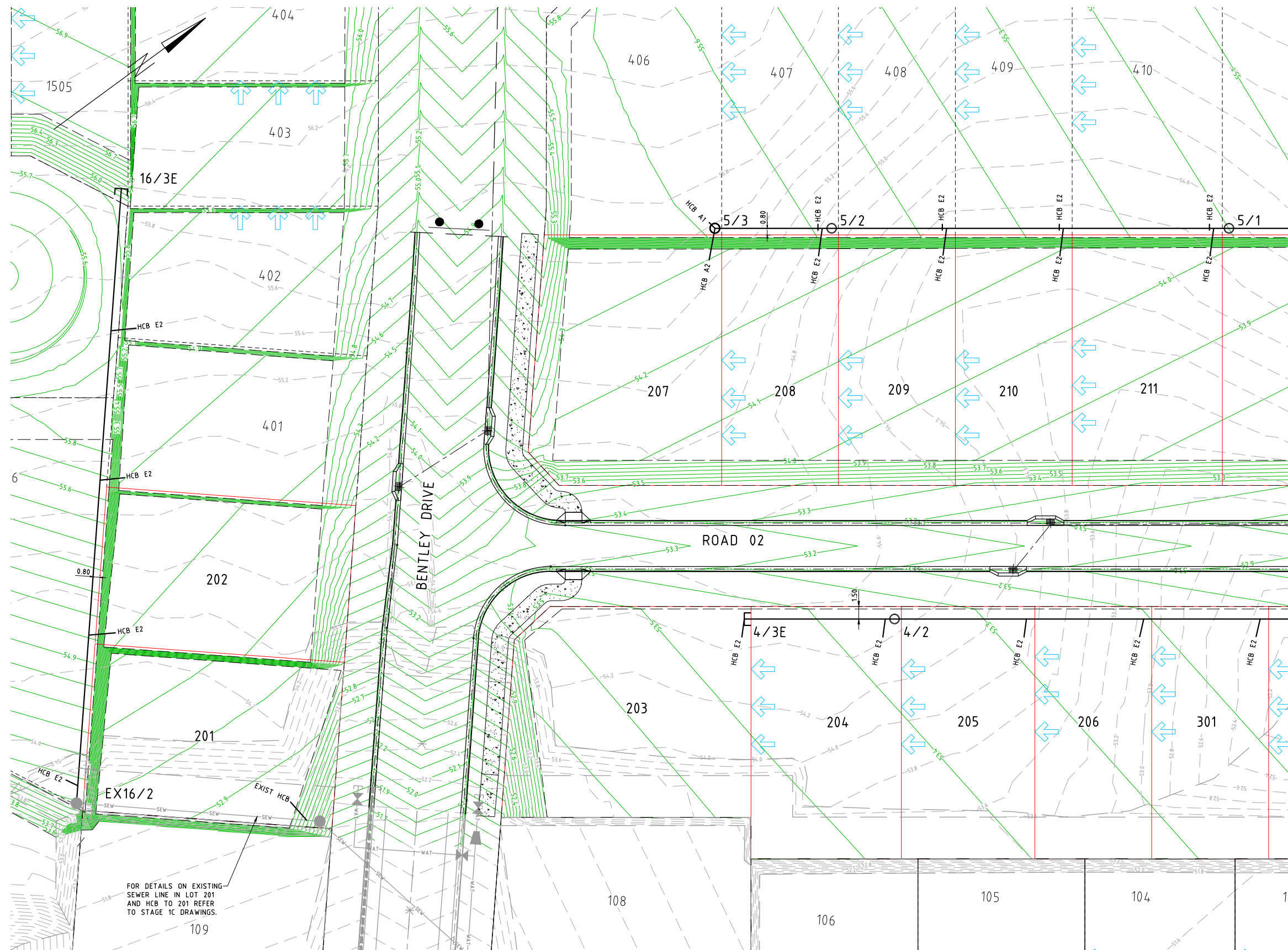
Client  
**WALKER ROAD  
PTY LTD**

Project  
**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title  
**EROSION AND SEDIMENT  
CONTROL PLAN**

Drawn	Designed	Verified
JP	PAM	RJB
Approved		Date
RJC		JUN 2017
Drawing Number	Revision	
15495 - C215	D	





- ### LEGEND
- EXISTING PROPERTY BOUNDARIES
  - EXISTING SURFACE CONTOURS
  - EXISTING BATTER CHANGE IN GRADE
  - EXISTING ROAD CROWN
  - EXISTING KERBING
  - EXISTING STORMWATER PIPES
  - EXISTING SEWER AND MH
  - EXISTING WATER MAIN VALVE AND ENDCAP
  - NEW BATTER
  - DESIGN SURFACE CONTOURS
  - NEW ROAD CROWN
  - NEW LAYBACK KERB AND CHANNEL
  - NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT WITH PIT LABEL
  - NEW DRAINAGE PIPE
  - PROPOSED LOT BOUNDARIES
  - FUTURE LOT BOUNDARIES
  - NEW SEWER MANHOLE AND MAIN
  - BUILD TO BOUNDARY LINE

- REFER SEWER LONG SECTIONS FOR MANHOLE / ENDCAP SETOUT CO-ORDINATES.
- HCB'S CLOSEST TO PROPERTY BOUNDARY ARE SET AT 1m OFFSET TO BOUNDARY.
- HCB'S UPSTREAM AND DOWNSTREAM OF MANHOLES ARE OFFSET 0.5m.

PLAN  
1:250

ISSUE	DESCRIPTION	DATE
E	BUILD TO BOUNDARY LINE SHOWN	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	SEWERAGE REVISED	26.05.17
B	SEWER LINE 4 AMENDED	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status

**FOR CONSTRUCTION**

SCALE 1:250	Orig. Sheet A1
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Scales Before Reduction	

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Client

**WALKER ROAD  
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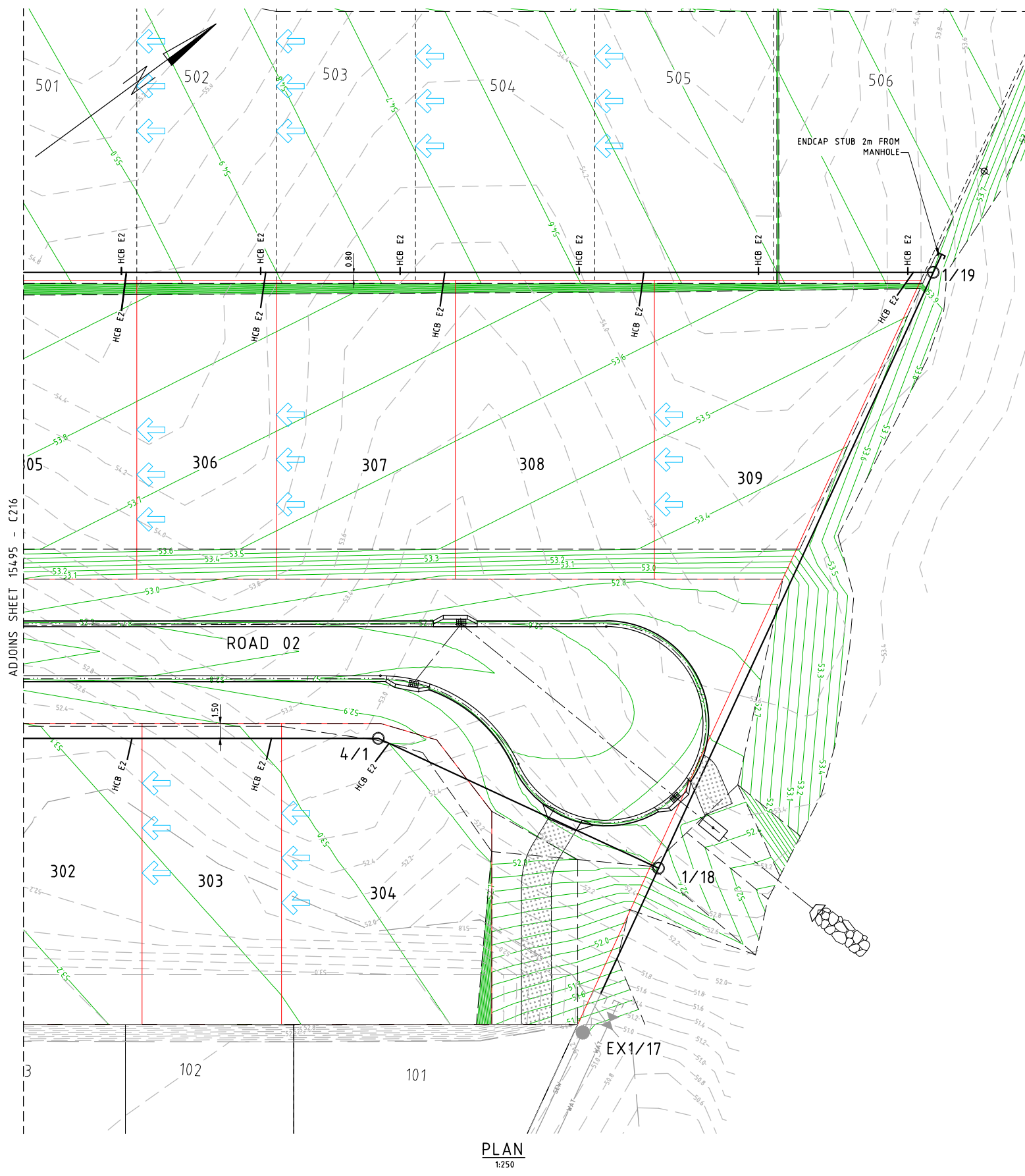
Project

**CHERRYBROOK  
STAGES 2 AND 3**

Drawing Title

**SEWERAGE PLAN  
SHEET 1 OF 2**

Drawn	Designed	Verified
JP	PAM	RJB
Approved RJC		Date JUN 2017
Drawing Number 15495 - C216		Revision E



**LEGEND**

- EXISTING PROPERTY BOUNDARIES
- EXISTING SURFACE CONTOURS
- EXISTING BATTER CHANGE IN GRADE
- EXISTING ROAD CROWN
- EXISTING KERBING
- EXISTING STORMWATER PIPES
- EXISTING SEWER AND MH
- EXISTING WATER MAIN VALVE AND ENDCAP
- NEW BATTER
- DESIGN SURFACE CONTOURS
- NEW ROAD CROWN
- NEW LAYBACK KERB AND CHANNEL
- NEW STORMWATER STRUCTURES - MH AND KERB INLET PIT WITH PIT LABEL
- NEW DRAINAGE PIPE
- PROPOSED LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- NEW SEWER MANHOLE AND MAIN
- BUILD TO BOUNDARY LINE

HCBS CLOSEST TO PROPERTY BOUNDARY ARE SET AT 1m OFFSET TO BOUNDARY.  
 HCBS UPSTREAM OF HCBS CLOSEST TO THE PROPERTY BOUNDARY ARE OFFSET 0.5m TO DOWNSTREAM HCB.

ADJOINS SHEET 15495 - C216

**PLAN**  
1:250

E	BUILD TO BOUNDARY LINE SHOWN	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	SEWERAGE REVISED	26.05.17
B	SEWER LINE 4 SETOUT AMENDED	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16
ISSUE	DESCRIPTION	DATE

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:250  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction  
2.5 0 2.5 5 7.5 10 12.5 m

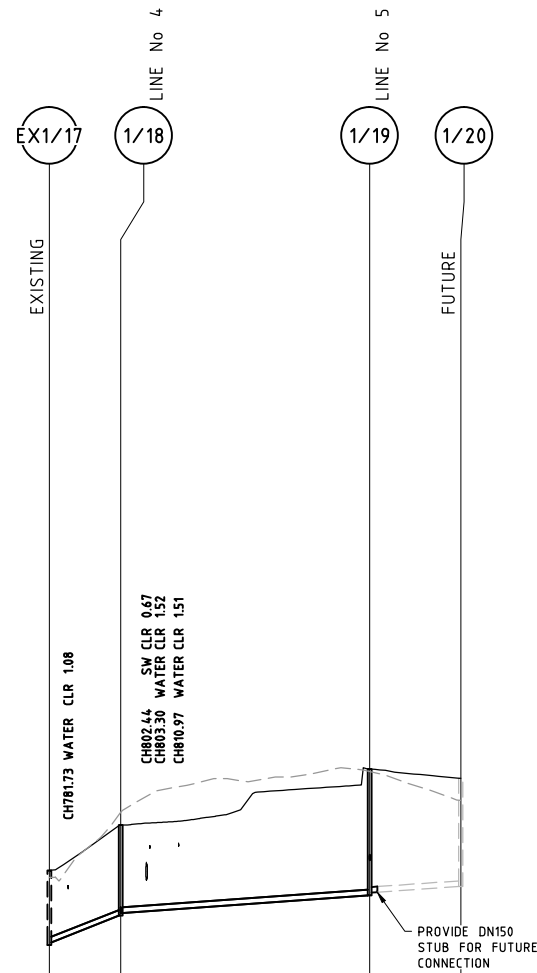
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Client  
**WALKER ROAD  
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Project  
**CHERRYBROOK  
STAGES 2 AND 3**

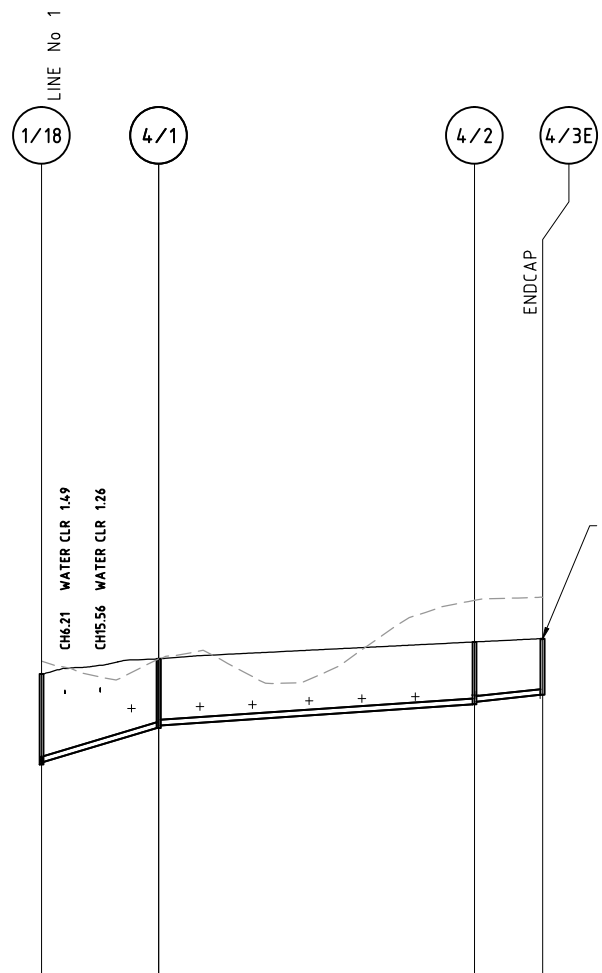
Drawing Title  
**SEWERAGE PLAN  
SHEET 2 OF 2**

Drawn <b>JP</b>	Designed <b>PAM</b>	Verified <b>RJB</b>
Approved <b>RJC</b>	Date <b>JUN 2017</b>	Revision <b>E</b>
Drawing Number <b>15495 - C217</b>		



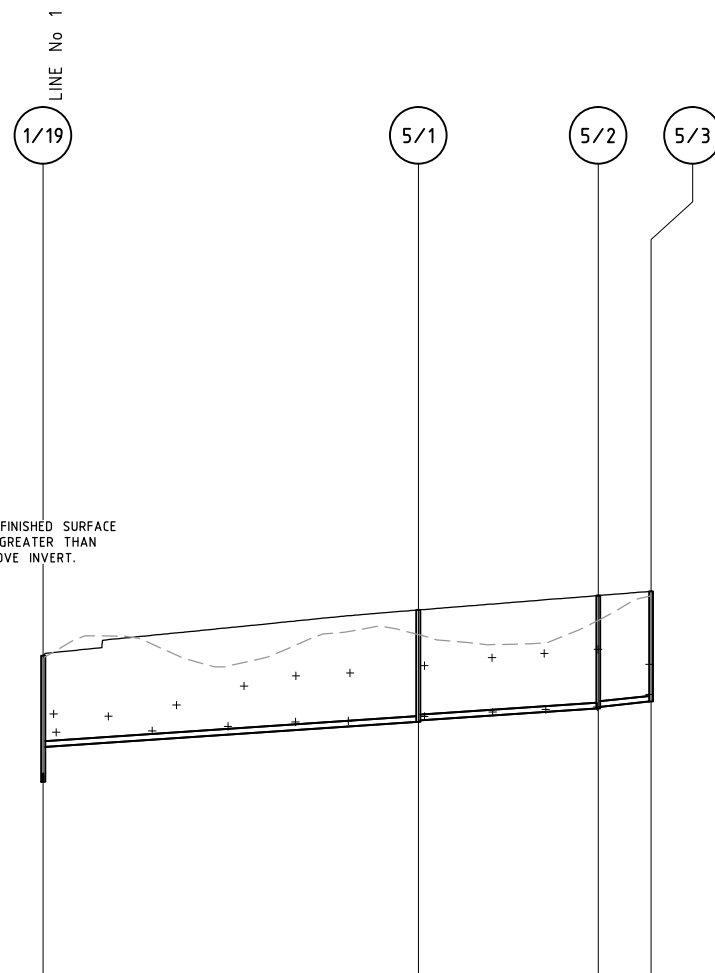
GRADE (1 in "X")	25.7	14.0	15.0
PIPE SIZE (mm)	150	150	150
DATUM RL	43.0		
DEPTH TO INVERT	1.93	2.40	2.33
INVERT LEVEL	49.375	50.112	50.182
DESIGN SURFACE LEVEL	51.31	52.51	53.99
EXISTING SURFACE LEVEL	51.12	52.85	53.93
SETOUT COORDINATES	E 363396.215 N 8119108.636	E 363387.076 N 8119125.193	E 363355.173 N 8119182.833
CHAINAGE	776.73 18.91	795.64 65.88	861.52 24.09

LINE 1



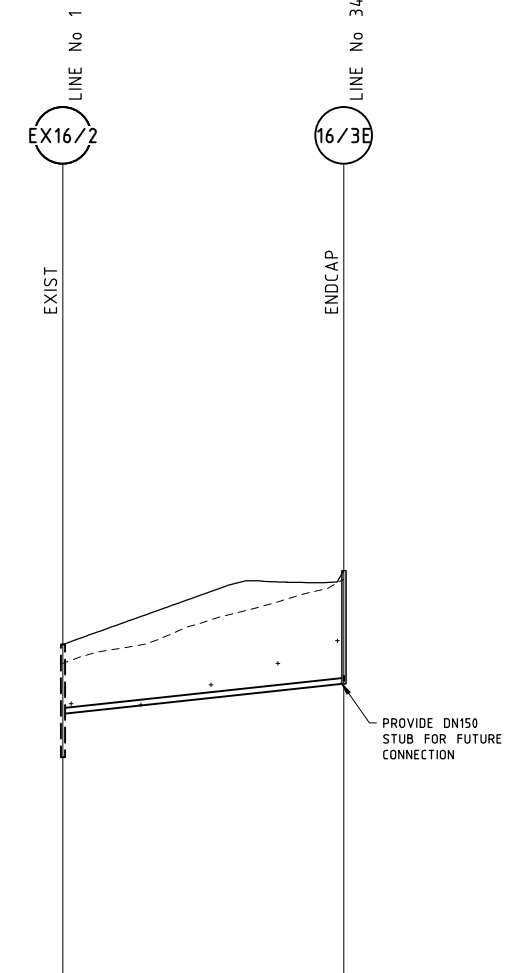
DEPTH TO INVERT	2.40	2.33	1.83	1.76	1.65	1.58	1.49
INVERT LEVEL	50.112	50.182	51.076	51.146	51.703	51.773	51.953
DESIGN SURFACE LEVEL	52.51	52.91	52.91	52.91	53.35	53.35	53.44
EXISTING SURFACE LEVEL	52.85	52.91	52.91	52.91	54.45	54.45	54.53
SETOUT COORDINATES	E 363387.076 N 8119125.193	E 363359.908 N 8119110.196	E 363310.479 N 811904.286	E 363299.816 N 8119028.334	E 363299.816 N 8119028.334	E 363299.816 N 8119028.334	E 363299.816 N 8119028.334
CHAINAGE	0.00 31.03	31.03 83.53	114.56 18.02	132.58	132.58	132.58	132.58

LINE 4



DEPTH TO INVERT	3.34	2.42	2.96	2.92	2.98	2.94	2.91
INVERT LEVEL	50.652	51.577	52.239	52.279	52.596	52.636	52.776
DESIGN SURFACE LEVEL	53.99	53.99	55.20	55.20	55.58	55.58	55.69
EXISTING SURFACE LEVEL	53.93	53.93	54.55	54.55	54.92	54.92	55.58
SETOUT COORDINATES	E 363355.173 N 8119182.833	E 363296.442 N 8119102.825	E 363268.275 N 8119064.453	E 363259.990 N 8119053.167	E 363259.990 N 8119053.167	E 363259.990 N 8119053.167	E 363259.990 N 8119053.167
CHAINAGE	0.00 99.25	99.25 47.60	146.85 14.00	160.85	160.85	160.85	160.85

LINE 5



DEPTH TO INVERT	2.98	1.83	3.00	1.75
INVERT LEVEL	51.307	52.459	53.245	54.497
DESIGN SURFACE LEVEL	54.29	53.79	56.24	56.01
EXISTING SURFACE LEVEL	53.79	53.79	56.01	56.01
SETOUT COORDINATES	E 363270.252 N 8118950.782	E 363213.648 N 8118998.997	E 363213.648 N 8118998.997	E 363213.648 N 8118998.997
CHAINAGE	86.81 74.36	161.17	161.17	161.17

LINE 16

HORIZONTAL SCALE 1:1000  
VERTICAL SCALE 1:100

ISSUE	DESCRIPTION	DATE
E	LINE 16 LEVELS UPDATED TO SUIT ST13-15	24.07.17
D	TITLEBLOCK REVISED	08.06.17
C	LONG SECTIONS REVISED	26.05.17
B	SEWER LINE AMENDED	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE N/A  
Orig. Sheet A1  
DO NOT SCALE DRAWINGS  
Scales Before Reduction

Client  
**WALKER ROAD PTY LTD**

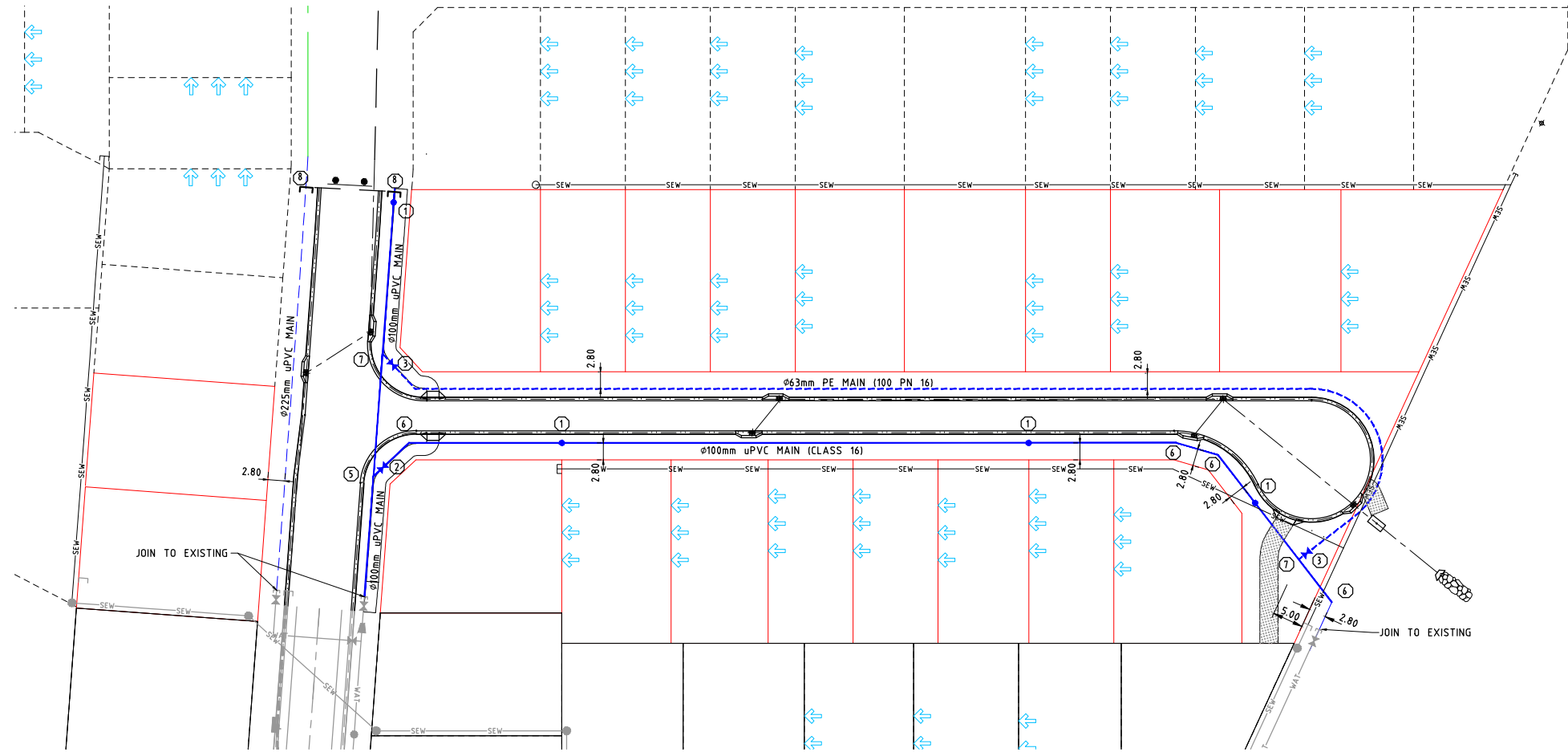
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Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**SEWER LONG SECTIONS**

Drawn JP	Designed PAM	Verified RJB
Approved RJC	Date JUN 2017	Revision E
Drawing Number 15495 - C218		

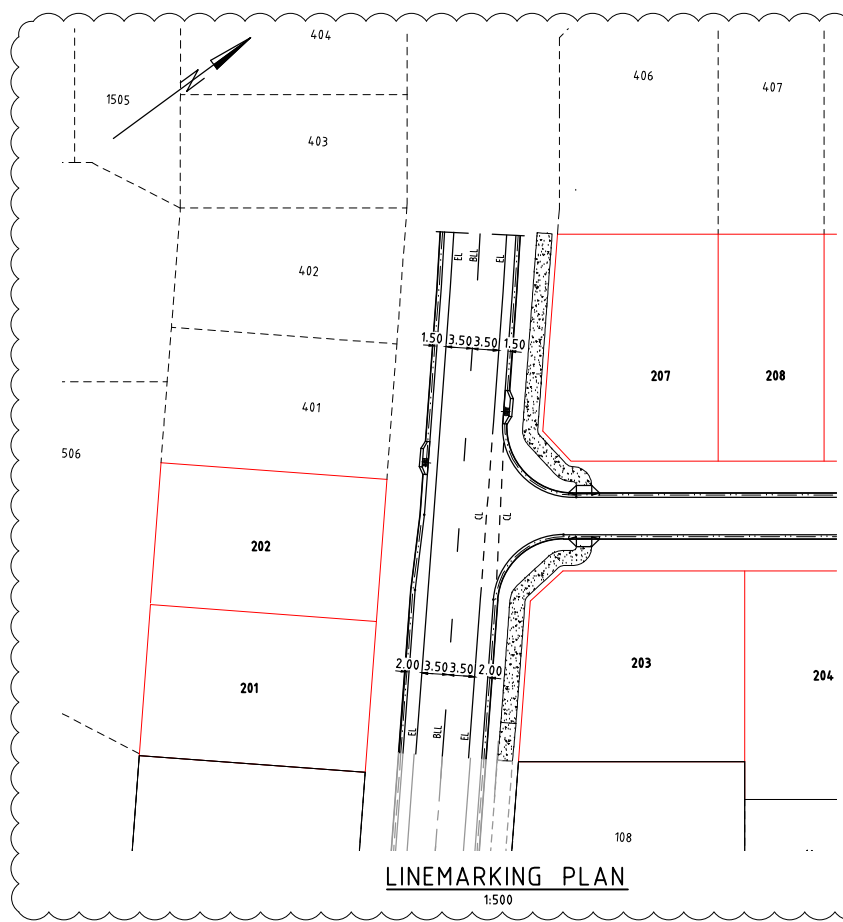
WATER SUPPLY FITTING LIST		
REF	SYMBOL	DESCRIPTION
①		75 Ø SPRING HYDRANT (MAXI FLO TYPE) COMPLETE WITH C.I.M.E. TEE, RISER, C.I. COVER, BOX, MARGIN & MARKER.
②		100 Ø POWDER COATED SLUICE VALVE CLASS 699 COMPLETE WITH C.I. COVER, BOX, ANCHOR, MARGIN & MARKER.
③		63 Ø MEDIUM BRONZE GATE VALVE COMPLETE WITH C.I. COVER, BOX, ANCHOR, MARGIN AND MARKER.
④		225 Ø POWDER COATED SLUICE VALVE CLASS 699 COMPLETE WITH C.I. COVER, BOX, ANCHOR, MARGIN & MARKER.
⑤		100 X 100 C.I.M.E. TEE / WYE WITH CONCRETE THRUST BLOCK.
⑥		100 Ø C.I.M.E. BEND TO SUIT WITH CONCRETE THRUST BLOCK.
⑦		100 Ø TO 63 Ø JOIN AS PER CAIRNS CITY COUNCIL 63 Ø SERVICE MAIN CONNECTION DETAIL.
⑧		225 Ø C.I.M.E. DEAD END CAP / 100 Ø C.I.M.E. DEAD END CAP / 63 Ø DEAD END CAP WITH CONCRETE THRUST BLOCK.



LEGEND	
	EXISTING PROPERTY BOUNDARIES
	EXISTING BATTER CHANGE IN GRADE
	EXISTING ROAD CROWN
	EXISTING WATER MAIN VALVE AND ENDCAP
	EXISTING SEWER AND MH
	EXISTING KERBING
	NEW BATTER
	NEW ROAD CROWN
	NEW LAYBACK KERB AND CHANNEL
	NEW KERB INLET PIT
	NEW DRAINAGE PIPE
	PROPOSED LOT BOUNDARIES
	FUTURE LOT BOUNDARIES
	NEW SEWER MANHOLE AND MAIN
	Ø225mm WATER MAIN
	Ø100mm WATER MAIN
	Ø63mm WATER MAIN
	BUILD TO BOUNDARY LINE

FOR WATER NOTES REFER TO DRG 15495-C202.

WATER PLAN  
1:500



LEGEND

	CL	CONTINUITY LINE
	BLL	BROKEN LANE LINE
	EL	EDGE LINE

FOR LINEMARKING DIMENSIONS REFER TO TMR MUTCD PART 2 - TRAFFIC CONTROL DEVICES FOR GENERAL USE - SECTION 5.

SETOUT FOR GIVE WAY LINES, UNBROKEN LANE LINES, AND CONTINUITY LINES AT INTERSECTION OF ROAD 01 AND BENTLEY DRIVE, ARE ALL OFFSETS TO TANGENT POINTS OF THE KERB.

BROKEN LANE LINES AND SINGLE BARRIER LINES ARE SETOUT OVER ROAD CENTRELINES

ALL TRAFFIC SIGNS AND PAVEMENT MARKING TO BE IN ACCORDANCE WITH 'TMR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' PARTS 1-15.

ALL REGULATORY, WARNING AND HAZARD SIGNS TO BE SIZE 'A' UNLESS NOTED OTHERWISE.

LINEMARKING PLAN  
1:500

ISSUE	DESCRIPTION	DATE
E	LINEMARKING REVISED, BUILD TO BOUNDARY LINE SHOWN	22.06.17
D	TITLEBLOCK REVISED	08.06.17
C	WATER AND LINEMARKING REVISED	26.05.17
B	LINEMARKING PLAN ADDED, WATER FIXTURE AMMENDMENTS	12.05.16
A	FOR PRELIMINARY REVIEW	15.02.16

Drawing Status  
**FOR CONSTRUCTION**

SCALE 1:500	Orig. Sheet A1
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Scales Before Reduction	



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Client  
**WALKER ROAD PTY LTD**

Project  
**CHERRYBROOK STAGES 2 AND 3**

Drawing Title  
**WATER RETICULATION AND LINE MARKING PLAN**

Drawn JP	Designed PAM	Verified RJB
Approved RJC	Date JUN 2017	
Drawing Number 15495 - C219	Revision D	