ARCADIS Design & Consultancy for natural and built assets

SHELL COVE - PRECINCT B2 AND C2

PRECINCT INFRASTRUCTURE - CIVIL WORKS UPDATED DA DESIGN

SHELLHARBOUR CITY COUNCIL

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LOCALITY PLAN
N.T.S

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NOT TO BE USED FOR CONSTRUCTION

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Project: SHELL COVE
PRECINCT B2 AND C2

Title: COVER SHEET AND DRAWING LIST

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Drawing No.	Project No.	Issue
C-B2C2-001	10006310	05

100mm on Original

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GENERAL

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SHELL HARBOUR COUNCIL SUBDIVISION CODE, AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
2. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
3. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE BUILDING CODE OF AUSTRALIA AS AMENDED AND THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS.
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
6. ALL DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED ON SITE BY THE BUILDER PRIOR TO CONSTRUCTION OR FABRICATION.
7. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH SHELL HARBOUR COUNCIL DESIGN GUIDELINES AND WORKS SPECIFICATIONS. WHERE DISCREPANCIES OCCER THE MORE STRINGENT SPECIFICATION WILL TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST AS REQUIRED. ALL COSTS TO BE BORNE Y THE APPLICANT.
9. THE CONTRACTOR SHALL NOT ENTER UPON OR DO ANY WORK WITHIN ADJACENT LAND WITHOUT PRIOR WRITTEN PERMISSION OF THE LAND OWNER.
10. THE CONTRACTOR SHALL PROVIDE MINIMUM 48 HOURS NOTICE TO THE PRINCIPLE FOR ALL INSPECTIONS.
11. REFER TO CARDNO CONSULTING ENGINEERS FOR DETAILS OF THE HARBOUR BOULEVARD ROAD AND STORMWATER DESIGN.
12. REFER TO WORLEY PARSONS CONSULTING ENGINEERS FOR DETAILS OF THE PROPOSED SEA WALL STORMWATER OULET PENETRATIONS, IF REQUIRED..

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   ROAD DRAINAGE
   5 YEAR ARI MINOR STORM EVENT
   20 YEAR ARI MINOR STORM EVENT (HARBOUR BOULEVARD & TRUNK DRAINAGE)
   100 YEAR ARI MAJOR STORM EVENT (ALL ROADS)
   INTER ALLOTMENT DRAINAGE:
   20 YEAR ARI STORM EVENT U.N.O.
2. ALL STORMWATER DRAINAGE INFRASTRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH RELEVANT SHELL HARBOUR CITY COUNCIL SPECIFICATIONS: C220- STORMWATER DRAINAGE, C221 - PIPE DRAINAGE, C222 - PRECAST BOX CULVERTS, C223 - DRAINAGE STRUCTURES, C230 - SUBSURFACE DRAINAGE AND C231 - SUBSOIL AND FOUNDATION DRAINS.
3. REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
4. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
5. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
6. ALL STOMRWATER TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SHELLHARBOUR CITY COUNCIL SUBDIVISION DESIGN CODES AND HS3 BEDDING.
7. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH COUNCIL SPECIFICATION AND AS3725. TYPE HS3 SUPPORT SHALL BE USED IN ROAD RESERVES. TYPE HS2 SUPPORT SHALL BE USED ELSEWHERE U.N.O.
8. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
9. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ARCADIS CONSULTING.
10. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
11. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
12. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
13. GRATES AND COVERS SHALL CONFORM TO AS 3996.
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
15. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
16. GALVANISED STEEL STEP IRONS ARE TO BE PROVIDED IN ALL PITS DEEPER THAN 1.2m IN ACCORDANCE WITH SHELL HARBOUR CITY COUNCIL REQUIREMENTS.
17. MINIMUM PIPE SIZE WITHIN ROAD RESERVE TO BE 375mm DIAMETER.
18. MINIMUM INTERALLOTMENT DRAINAGE PIPE SIZE SHALL BE 150mm DIAMETER.
19. CCTV ALL PIPES AFTER CONSTRUCTION AND PRIOR TO PRACTICAL COMPLETION. THIS INCLUDES ALL EXISTING PIPES THAT ARE TO BE RETAINED.
20. PIPES ARE DESIGNED FOR OPERATIONAL LOADS ONLY. APPROPRIATE MEASURES SHOULD BE TAKEN TO PROTECT PIPES DURING CONSTRUCTION.
21. ALL DIRECT CONNECTIONS TO BE MINIMUM 150mm DIAMETER PVC PIPEWORK, LAID AT MINIMUM 1.0% GRADE FROM POINT OF CONNECTION.
22. ALL DIRECT CONNECTIONS TO STORMWATER IN LANEWAYS SHOULD HAVE 150mm CONCRETE SURROUND UNDER GARAGE STRUCTURES AND UP TO CONNECTION INTO STORMWATER PIPE LOCATED IN LANEWAYS.
23. METAL KERB OUTLETS TO BE PROVIDED TO ALL LOTS DRAINING TO THE STREET.
24. PREFABRICATED PITS TO COME FROM A QUALITY ASSURED SUPPLIER. CONTRACTOR TO INSPECT PITS WHEN DELIVERED TO SITE PRIOR TO INSTALLATION. ONLY THE DESIGNED KNOCKOUT AREAS TO BE USED FOR PIPE ENTRIES. ANY CRACKS IN PITS OR EVIDENCE THAT CONTRACTOR HAS EXTENDED THE KNOCKOUT AREA SHALL RENDER THE PIT UNACCEPTABLE. IT IS RECOMMENDED TO SAW CUT THE KNOCK OUT AREA WHEN CREATING THE OPENING IN THE PIT FOR THE PIPE TO MINIMISE POTENTIAL DAMAGE TO PIT.
25. CONTRACTOR TO CCTV STORMWATER DRAINAGE NO SOONER THAN AFTER BASE COURSE LAYER IS PLACED. ANY DAMAGE TO PIPES / CULVERTS MUST BE REPORTED TO THE PCA PRIOR TO UNDERTAKING ANY REPAIRS. IT IS TO BE NOTED THAT ANY DAMAGE TO PIPES / CULVERTS IDENTIFIED IN THE CCTV REPORT THAT ARE LOCATED UNDER ROADS SHALL AS A MINIMUM REQUIRE A FULL SLEEVE REPARI FROM PIT TO PIT. CIRCUMFERENTIAL CRACKS IN OTHER LOCATIONS SHALL AS A MINIMUM REQUIRE A SLEEVE REPAIR. THE REPAIR SHALL BE DONE BY AN APPROVED CONTRACTOR. A CCTV REPORT ON ALL REPAIRS WILL BE REQUIRED BY COUNCIL.

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO ARCADIS CONSULTING.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED IN ACCORDANCE WITH SHELLHARBOUR SUBDIVISION DESIGN CODES AND HS3 BEDDING.
6. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
7. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM NON-VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER). SOFT SPOTS ARE TO BE REPLACED WITH SUITABLE SELECT FILL FOR A DEPTH OF AT LEAST 0.5m OR AS ADVISED BY THE GEOTECHNICAL ENGINEER.
8. SELECT MATERIAL FOR BACKFILLING SHALL BE GRANULAR MATERIAL WHICH IS NATURALLY OCCURRING, HAVING A PARTICLE SIZE DISTRIBUTION, DETERMINED IN ACCORDANCE WITH AS 1289. 3.6.1. SELECT MATERIAL CAN BE CRUSHED ROCK, NATURAL SOIL, GRAVEL AND SAND, OR OTHER APPROVED GRANULAR MATERIAL CONSISTING OF CLEAN, SOUND, DURABLE FRAGMENTS, FREE FROM ORGANIC MATTER FROM AN APPROVED SOURCE. GRADING LIMITS FOR SELECT FILL SHALL BE IN ACCORDANCE WITH AS 3725 AND SHELL HARBOUR COUNCIL SUBDIVISION DEVELOPMENT CONSTRUCTION SPECIFICAITON C213: EARTHWORKS.
9. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-
   A. 1 TEST PER 200mm² OF FILL PLACED PER 200 LAYER OF FILL.
   B. 3 TESTS PER LAYER
   C. 1 TEST PER 2000m² OF EXPOSED SUBGRADE
   TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (2007).
12. FILL MATERIAL SHALL BE SPREAD IN LAYERS MAXIMUM 300mm THICK AND COMPACTED TO SPECIFICATION.
13. 15. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
   EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.
7. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
8. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

STREET FURNITURE

1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE R.M.S REGULATORY SIGNS MANUAL.
2. ALL LAMP COLUMNS TO BE IN ACCORDANCE WITH SHELL HARBOUR CITY COUNCIL AND / OR ENDEAVOUR ENERGY ENERGY SPECIFICATIONS. LAMP COLUMNS TO BE PACESETTER 400G BY VERTIKOTE WITH COLOUR AS INTERPON D2015 CHARCOAL YL238A.

SURVEY NOTES

1. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. ARCADIS CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
2. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT ARCADIS CONSULTING.

LOCAL SURVEY MARKS

SSM 168839 EASTING: 304252.302
NORTHING: 6170118.179
RL: 22.837m

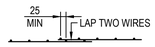
CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS AND SHELL HARBOUR CITY COUNCIL SPECIFICATION C271 - MINOR CONCRETE WORKS. PLEASE REFER TO LANDSCAPE ARCHITECT DESIGN DOCUMENTATION FOR ALL CONCRETE ADDITIVES (COLOUR) AND AGGREGATE TYPE
2. CONCRETE QUALITY
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS3600 F'c MPA AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS AND PITS	25	80	20
DRAINAGE PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY ARCADIS CONSULTING.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70MM FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N - DENOTES GRADE 450 N BARS TO AS 4671 GRADE N
   R - DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 4671
   SL - DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 4671
   NUMBER OF BARS IN GROUP — BAR GRADE AND TYPE
   17 N 20 250
   NOMINAL BAR SIZE IN mm — SPACING IN mm
   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 4671.
8. REINFORCEMENT SHOULD HAVE THE FOLLOWING MINIMUM COVER:
   - 40mm MINIMUM (AS PER SCC SPECIFICATIONS)
   - 50mm FOR CONCRETE CAST IN CONTACT WITH EARTH OR FRESH WATER
   - AS NOTED ON DESIGN DRAWINGS AND DETAILS
9. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



JOINTING NOTES

PEDESTRIAN PAVEMENT JOINTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL AS PER FOOTPATH DETAIL ON DRAWING C-D-504 AND SHELL HARBOUR COUNCIL DESIGN GUIDE D09 - CYCLEWAY AND PATHWAY DESIGN.
6. CONTRACTOR IS TO REFER DRAWING C-D-504 FOR JOINT DETAILS FOR COVE BOULEVARD FOOTPATH AND PLAZA AREA
7. ISOLATION JOINT TO BE APPLIED TO ALL FURNITURE SURROUNDS. PLEASE REFER TO LANDSCAPE ARCHITECT DESIGN FOR DETAILS

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE
   2.1. WITH LOCAL AUTHORITY REQUIREMENTS
   2.2. EPA REQUIREMENTS
   2.3. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS OR THE STORMWATER OUTLET PITS AND PIPES HAVE BEEN CONSTRUCTED, WHICH DIRECT FLOWS TO THE BOAT HARBOUR SEDIMENT CONTROL DEVICE.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. SITE STABILISATION BY APPLICATION OF SEEDED HYDROMULCH WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
11. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

12. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
13. ALL TREES WITHIN THE EXTENT OF PROPOSED WORKS ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

TELSTRA - DUTY OF CARE NOTE

1. TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.
2. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY ITS LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO ITS PROPERTY AND LOSSES CAUSED TO TELSTRA AND ITS CUSTOMERS.

EXISTING UNDERGROUND SERVICES NOTES

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
   ARCADIS CONSULTING CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
2. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
3. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
4. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

PROPOSED SERVICES NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SERVICE AUTHORITY DRAWINGS AND SPECIFICATIONS
2. THE CONTRACTOR SHALL ATTEND, MANAGE & SUPERVISE THE PROVISION OF PUBLIC UTILITY SERVICES TO THE WORKS GENERALLY AS INDICATED ON THE SERVICES PLANS, NOTING THAT PRIOR & DURING CONSTRUCTION THE PUBLIC UTILITY AUTHORITIES WILL FINALISE THEIR DOCUMENTATION TO CONSTRUCTION ISSUE STANDARD. THE FOLLOWING GENERAL ARRANGEMENTS SHALL APPLY IN RESPECT OF EACH PUBLIC UTILITY SERVICE.

   CONDUIT ROAD CROSSING

   THE CIVIL CONTRACTOR SHALL ALLOW IN THEIR PRICE FOR CONDUIT CROSSINGS UNDER THE PROPOSED ROADS AS SHOWN ON THE "SERVICES PLAN".
3. THE CIVIL CONTRACTOR (TRENCH PROVIDER) IS TO ARRANGE ON SITE MEETING WITH ALL SERVICE AUTHORITIES PRIOR TO THE INSTALLATION OF CONDUITS.
4. THE CIVIL CONTRACTOR TO CO-ORDINATE INSTALLATION OF ELECTRICITY, GAS AND TELECOMMUNICATION SERVICES.
5. ELECTRICITY, GAS AND TELECOMMUNICATION SERVICES ARE TO BE LAID FOLLOWING THE INSTALLATION OF STORMWATER, SEWER AND WATER SERVICES AND KERB AND GUTTER.
6. ALL UTILITY AUTHORITY REPRESENTATIVES TO INSPECT ROAD CROSSINGS PRIOR TO SEALING.
7. ALL ELECTRICAL ROAD CROSSINGS TO BE CLASS 6 (ORANGE) uPVC CONDUITS.
8. ALL GAS ROAD CROSSINGS TO BE uPVC GREY SEWER GRADE CONDUITS.
9. ALL STREET POLES TO BE POSITIONED 350mm FROM BOUNDARY TO CENTRELINE OF POLE.
10. WHERE FOOTPATHS ARE TO BE CONSTRUCTED, ALL SERVICE PIT COVERS AND MARKERS ARE TO BE LAID WHOLLY WITHIN OR WHOLLY OUTSIDE THE CONCRETE FOOTPATH. CONTACT SUPERINTENDENT SHOULD DIFFICULTIES ARISE.
11. ELECTRICITY CONDUITS ARE SHOWN FOR CLARITY HOWEVER, CABLES MAY BE DIRECTLY BURIED. APPROVAL BY ENDEAVOUR ENERGY REQUIRED.
12. SERVICES MARKERS ARE TO BE PLACED ON THE KERB & GUTTER AT ALL ROAD CROSSING POINTS, ON BOTH SIDES OF THE ROAD.
13. ALL SERVICE PIT COVERS TO BE INSTALLED FLUSH WITH PROPOSED VERGE LEVELS AND GRADES.

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS: REFER SURVEY NOTES.
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL (150mm NOMINAL) FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	MINIMUM DRY DENSITY (AS 1289 E 5.1.1.)
UNDER BUILDING SLABS ON GROUND	95-98% STD
UNDER ROADS, FOOTWAYS AND CARPARKS	100% STD
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	95% STD

5. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH A 12 TONNE (MIN) DEADWEIGHT SMOOTH DRUM NON VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
6. TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH THE CURRENT AS 3798.
7. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM LAYERS 200mm
8. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.
9. WHERE GROUNDWATER DISCHARGE OCCURS IN BULK EXCAVATIONS OR CUT FACES, SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE SUPERINTENDENT / GEOTECH INSTRUCTIONS TO DIRECT DISCHARGE WATER TO THE NEAREST STORMWATER / SEDIMENTATION CONTROL DEVICE. THE SUBSOIL DRAINAGE MUST BE INSTALLED AS SOON AS PRACTICALLY POSSIBLE AFTER EXCAVATION. SUBSOIL DRAINAGE SHALL ALSO BE INSTALLED AT LOW POINTS IN THE FINISHED EARTHWORK PROFILE IN ACCORDANCE WITH THE SUPERINTENDENT / GEOTECH'S INSTRUCTIONS.
10. ENSURE TEMPORARY DIVERSION CHANNELS ARE CONSTRUCTED AROUND STOCKPILED MATERIALS AND DISTURBED AREAS GENERALLY AS DETAILED.
11. THE CONTRACTOR SHALL ALLOW FOR AND COORDINATE ALL MONITORING AND MAINTENANCE REQUIREMENTS IN RELATION TO SOIL AND GROUNDWATER CONDITIONS DURING CONSTRUCTION.
12. WORKS TO BE IN ACCORDANCE WITH ALL GEOTECHNICAL REPORTS.

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	N.T.S	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-002-10006310-nsd-GeneralNotes.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: GENERAL NOTES

ARCADIS
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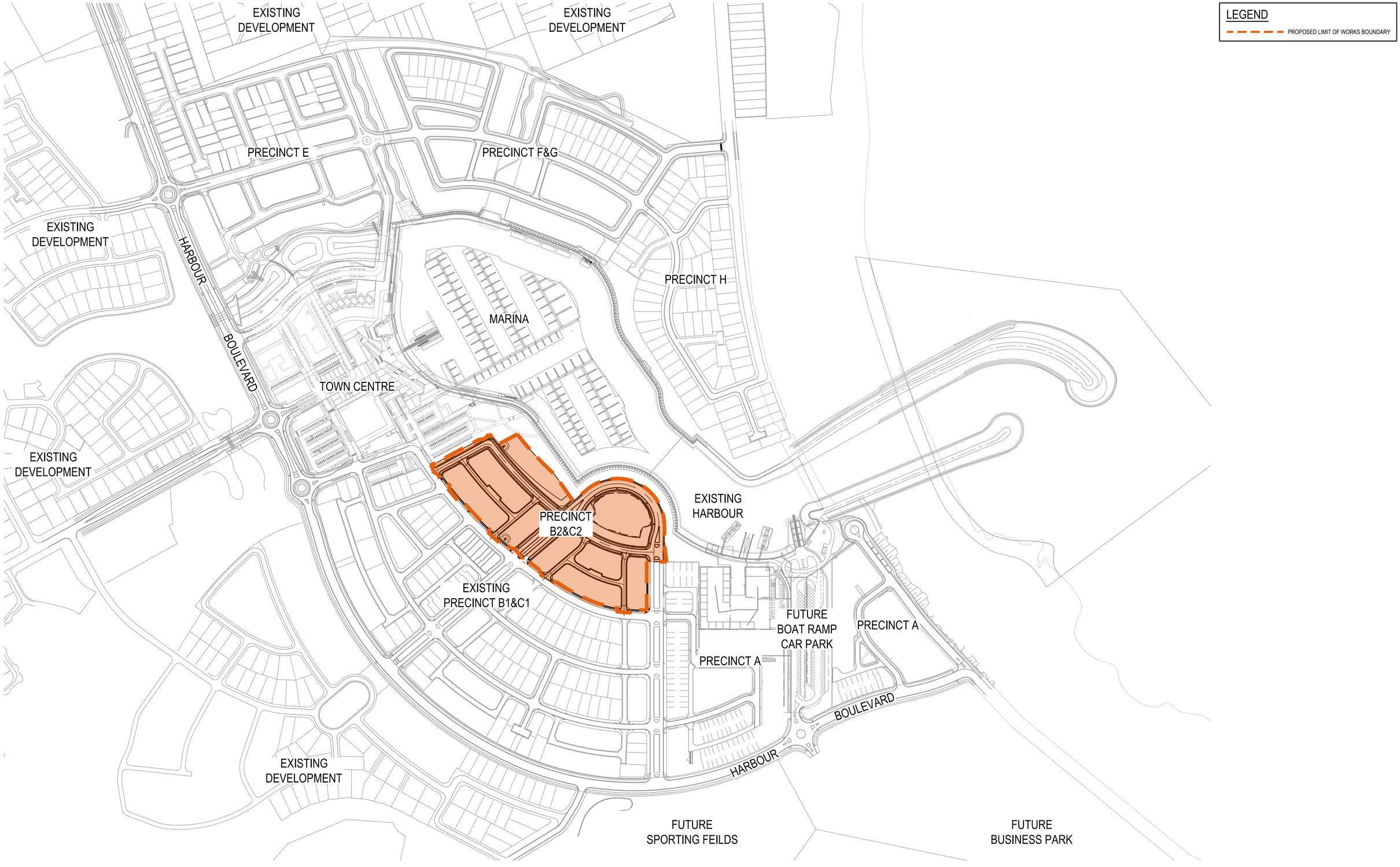
Drawing No.	Project No.	Issue
C-B2C2-002	10006310	04

Date Plotted: 25 Oct 2019 - 01:58PM File Name: C:\12dSWdata\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-002-10006310-nsd-GeneralNotes.dwg V1



Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 50 100 150 200 250m

1 : 2500

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 2500	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	
Filename:	C-b2c2-003-10006310-nsd-SitePlan.dwg		

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SITE PLAN

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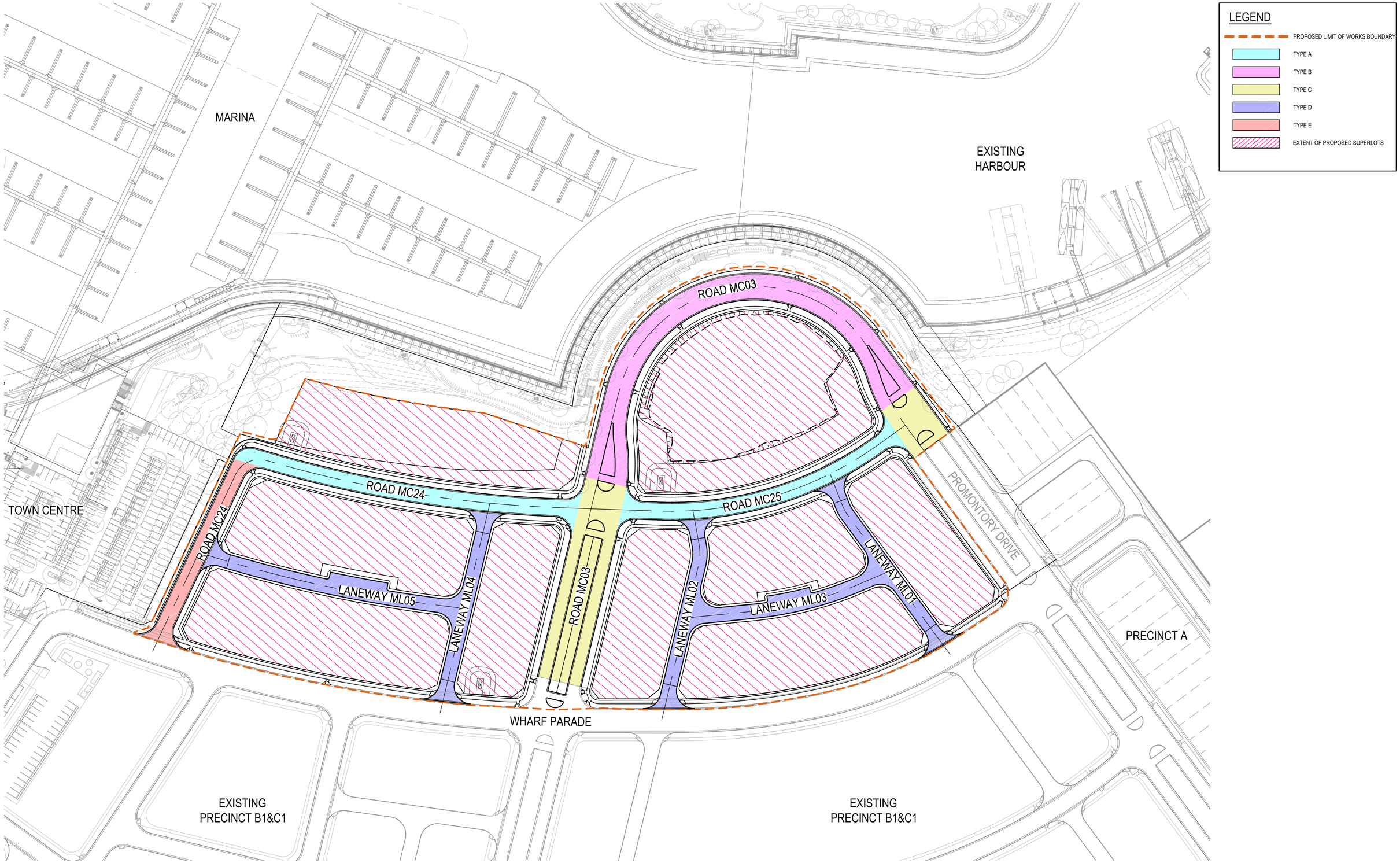
Drawing No.	Project No.	Issue
C-B2C2-003–	10006310	– 04

100mm on Original

Date Plotted: 25 Oct 2019 - 01:58PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-003-10006310-nsd-SitePlan.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
Filename:	C-b2c2-004-10006310-nsd-LotLayoutPlan.dwg	Approved J. HEYDON	

Project: SHELL COVE
PRECINCT B2 AND C2

Title: LOT LAYOUT
PLAN

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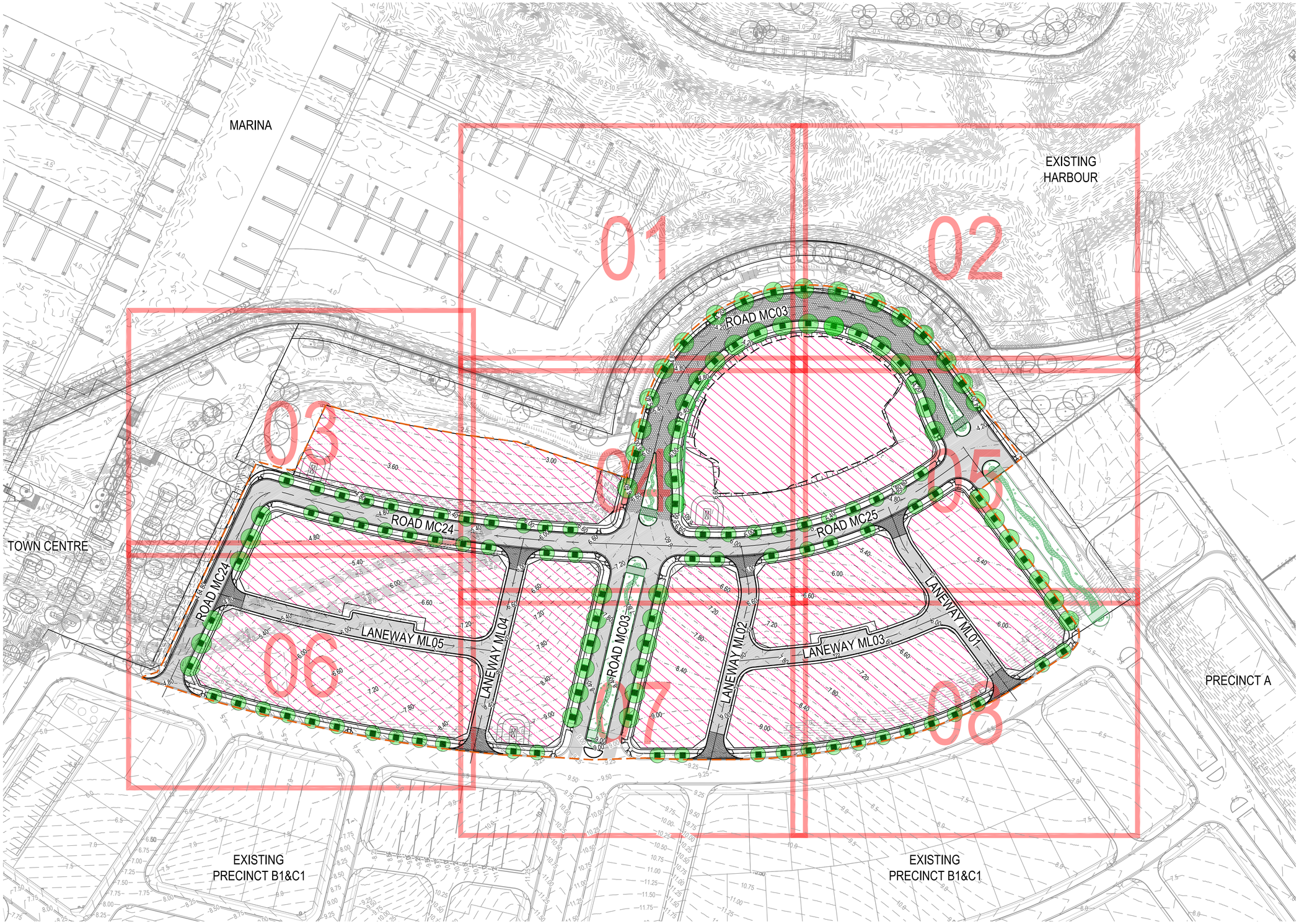
Drawing No.	Project No.	Issue
C-B2C2-004	10006310	05

Date Plotted: 4 Nov 2019 - 04:39PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-004-10006310-nsd-LotLayoutPlan.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
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Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-005-10006310-nsd-GeneralArrangementPlan.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: GENERAL ARRANGEMENT PLAN

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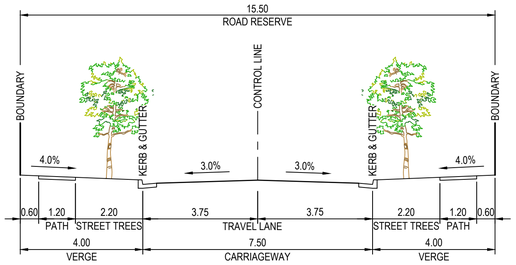
Drawing No.	Project No.	Issue
C-B2C2-005	10006310	05

Date Plotted: 4 Nov 2019 - 04:40PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-005-10006310-nsd-GeneralArrangementPlan.dwg V1

NOTES

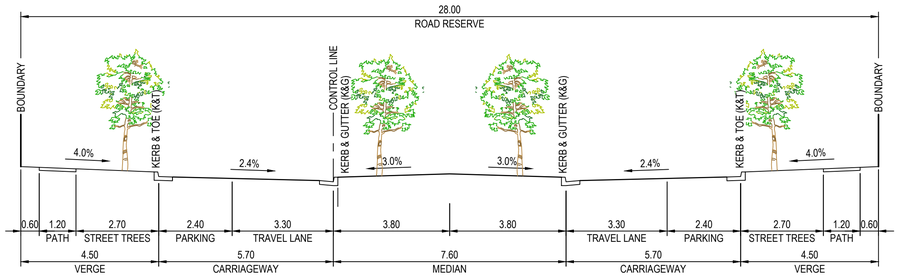
1. REFER TO DRAWING No. C-B2C2-004 FOR STREET TYPE LOCATIONS.



STREET TYPE A - TYPICAL CROSS SECTION

1 : 100

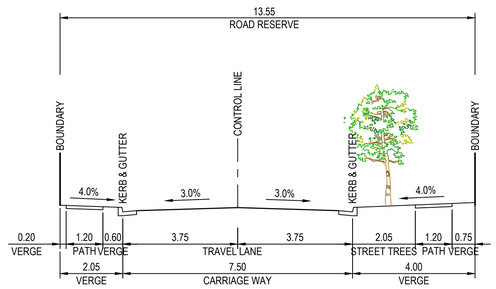
LOCAL STREETS



STREET TYPE C - TYPICAL CROSS SECTION

1 : 100

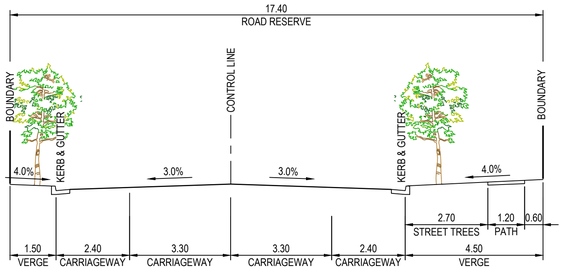
CORRIDOR STREETS



STREET TYPE E - TYPICAL CROSS SECTION

1 : 100

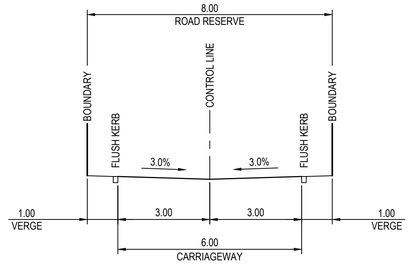
LOCAL STREETS



STREET TYPE B - TYPICAL CROSS SECTION

1 : 100

LOCAL STREETS



STREET TYPE D - TYPICAL CROSS SECTION

1 : 100

LANEWAYS

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 2 4 6 8 10m

1 : 100

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 100	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-006-10006310-nsd-TypicalRoadCrossSections.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TYPICAL ROAD
CROSS SECTIONS

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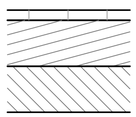
Drawing No.	Project No.	Issue
C-B2C2-006	10006310	04

100mm on Original



PAVERS TO LANDSCAPE ARCHITECTS SPECIFICATION

BASE COURSE

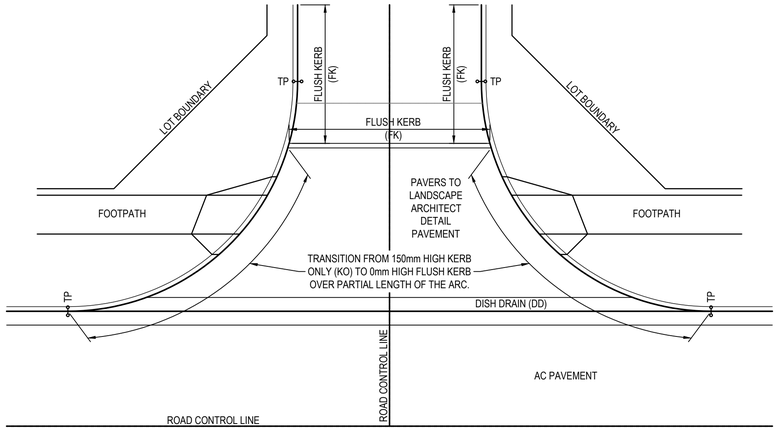
SUB BASE

PAVEMENT TYPE B

SCALE 1:10

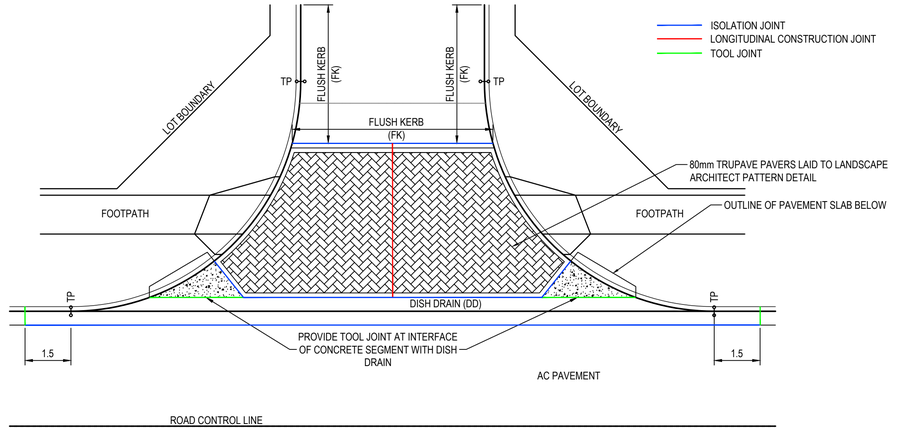
NOTES

1. THE PAVEMENT DETAILS ARE TO BE CONFIRMED AT THE DETAILED DESIGN STAGE



TYPICAL LANEWAY ENTRY THRESHOLD

1 : 100



TYPICAL LANEWAY ENTRY THRESHOLD - PAVEMENT DETAIL

1 : 100

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 100 200 400 600 800 1000mm

1 : 10

0 2 4 6 8 10m

1 : 100

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	AS SHOWN	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	
Filename:	C-b2c2-007-10006310-nsd-TypicalDetails.dwg		

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TYPICAL DETAILS

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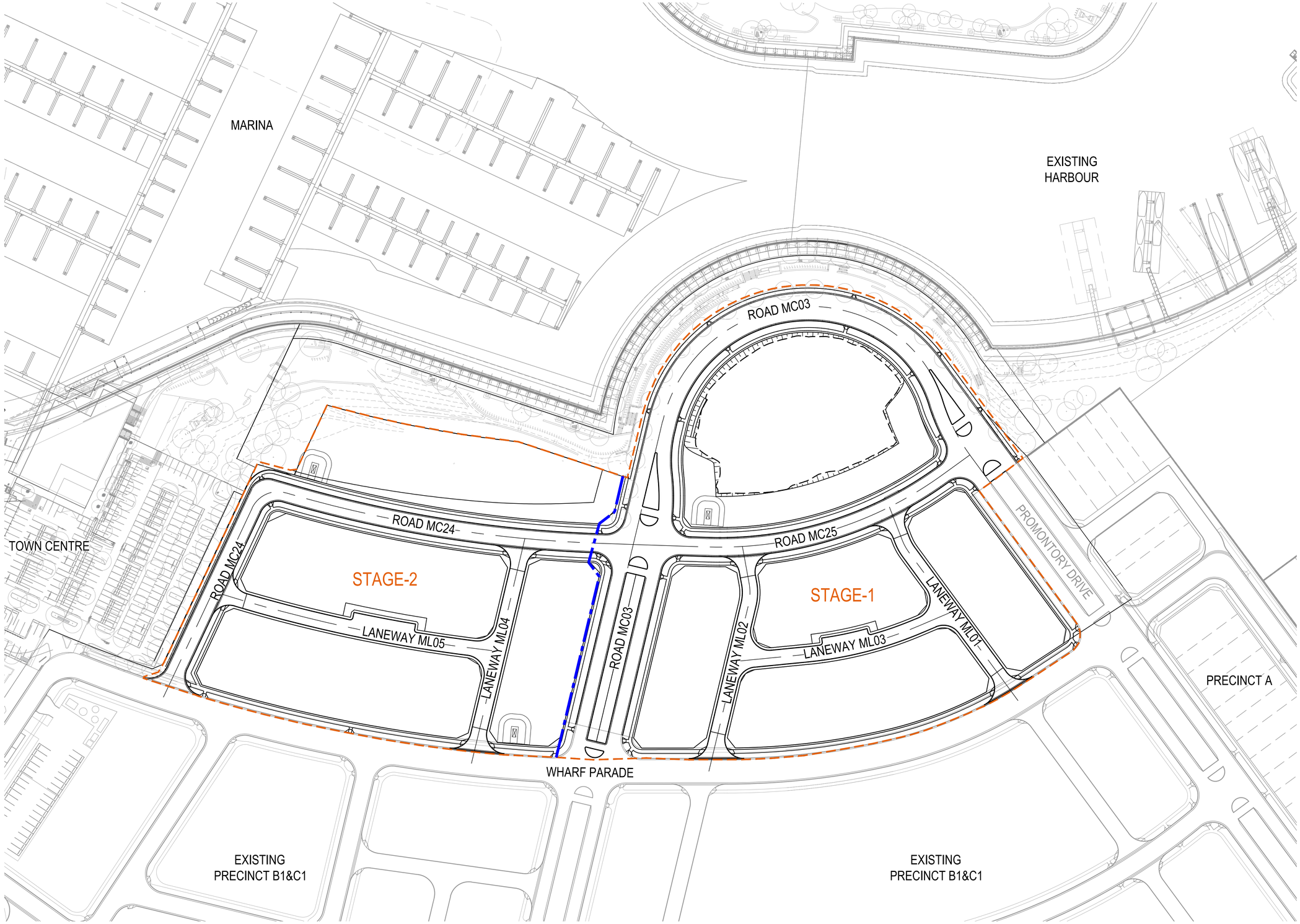
Drawing No.	Project No.	Issue
C-B2C2-007–	10006310	– 04

Date Plotted: 25 Oct 2019 - 02:00PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-007-10006310-nsd-TypicalDetails.dwg V1



Issue	Description	Date
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02	UPDATED DA ISSUE	25/10/2019
01	UPDATED DA ISSUE	04/10/2019

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 750	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-008-10006310-nsd-ConstructionStagingPlan.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CONSTRUCTION STAGING PLAN

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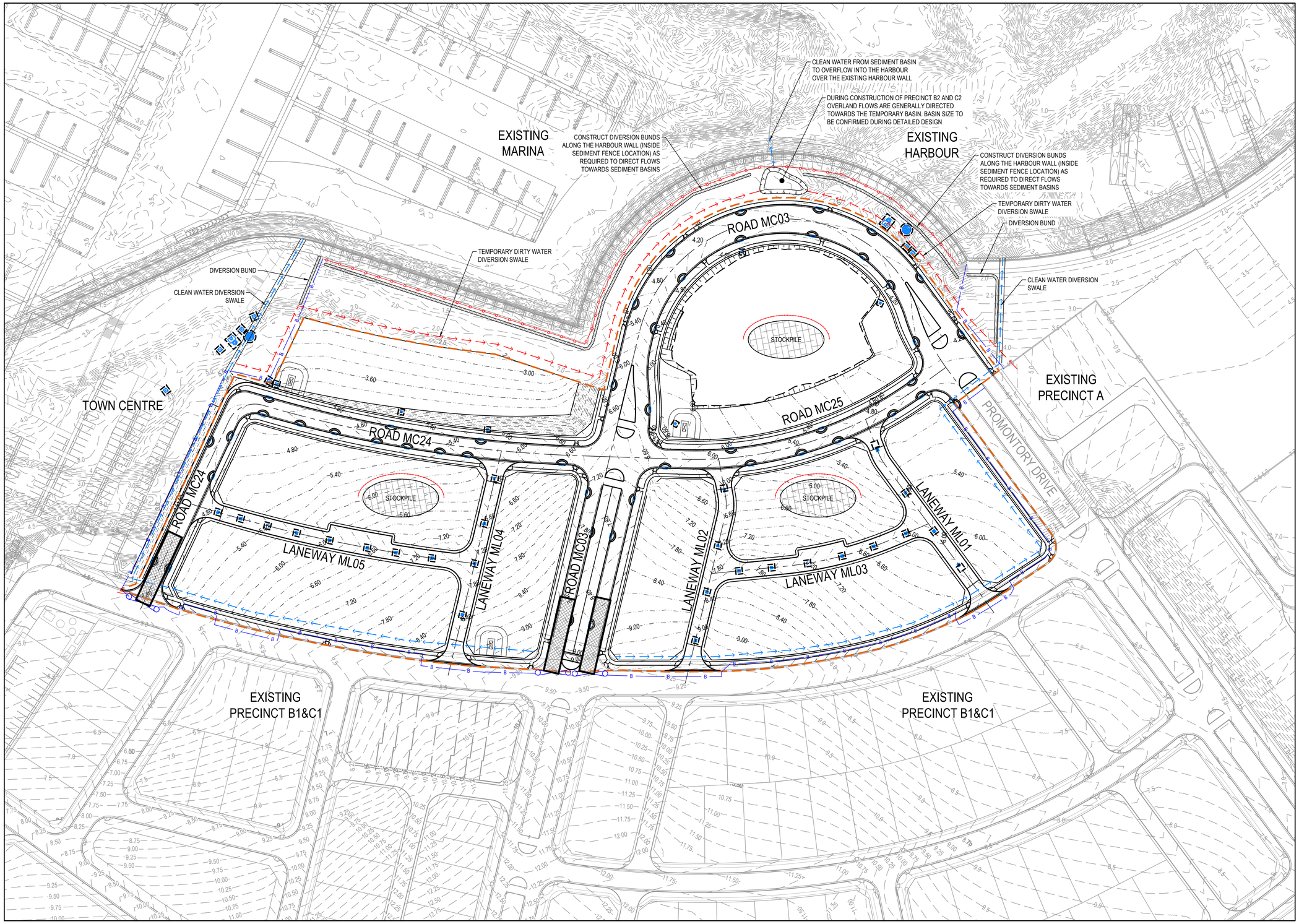
Drawing No.	Project No.	Issue
C-B2C2-008–	10006310	– 03

Date Plotted: 4 Nov 2019 - 04:41PM File Name: C:\12dSW\data\AUSY01APP04\AA0006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-008-10006310-nsd-ConstructionStagingPlan.dwg V1



LEGEND

- PROPOSED LIMIT OF WORKS BOUNDARY
- 2.0 DESIGN CONTOURS (0.25m INTERVAL)
- SEDIMENT FENCE
- B 1.8m HIGH CHAINWIRE BARRIER FENCE LOCATION TO BE CONFIRMED ON SITE BY CONTRACTOR
- PROPOSED SEDIMENT BASIN. SIZE AND LOCATION TO BE CONFIRMED DURING DETAIL DESIGN.
- PROPOSED GATE
- MESH AND GRAVEL INLET FILTER (SD6-11)
- DIRTY WATER DIVERSION
- CLEAN WATER DIVERSION
- STABILISED SITE ACCESS WITH SHAKER PAD

NOTES

1. MESH AND GRAVEL INLET FILTER TO BE PROVIDED AT ALL STORMWATER INLET PITS.
2. SANDBAG SEDIMENT TRAP TO BE PROVIDED AT ALL KERB INLET LOCATIONS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE
   - 2.1. WITH LOCAL AUTHORITY REQUIREMENTS
   - 2.2. EPA REQUIREMENTS
   - 2.3. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS OR THE STORMWATER OUTLET PITS AND PIPES HAVE BEEN CONSTRUCTED, WHICH DIRECT FLOWS TO THE BOAT HARBOUR SEDIMENT CONTROL DEVICE.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE PROGRESSIVELY UNDERTAKEN TO MINIMISE SOIL DISTURBANCE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. SITE STABILISATION BY APPLICATION OF SEEDED HYDROMULCH WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
11. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

12. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
13. ALL TREES WITHIN THE EXTENT OF PROPOSED WORKS ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 750	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename:C-b2c2-101-10006310-nsd-ErosionAndSedimentControlPlan.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: EROSION AND SEDIMENT CONTROL PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
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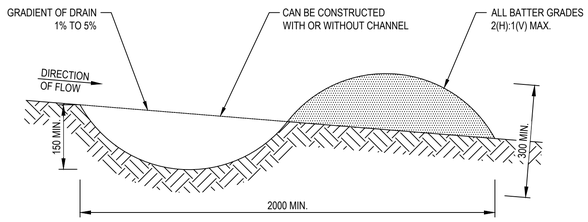
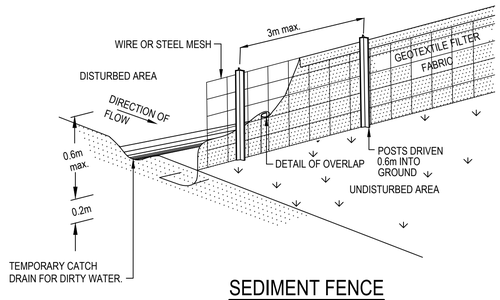
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-101–	10006310	– 04

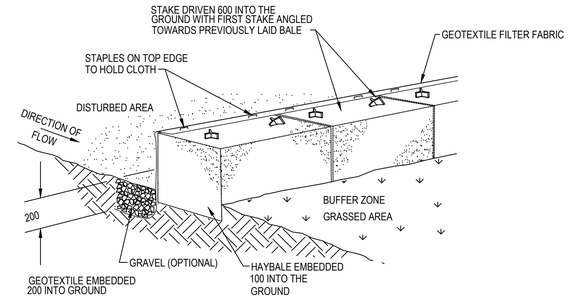
Date Plotted: 25 Oct 2019 - 02:01PM File Name: C:\12dSW\data\AUSY01APP04\AA0006310-Shell Cove_2B\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-101-10006310-nsd-ErosionAndSedimentControlPlan.dwg V1



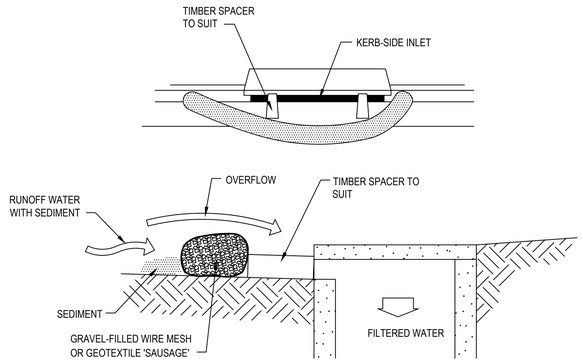
EARTH BUND
NTS



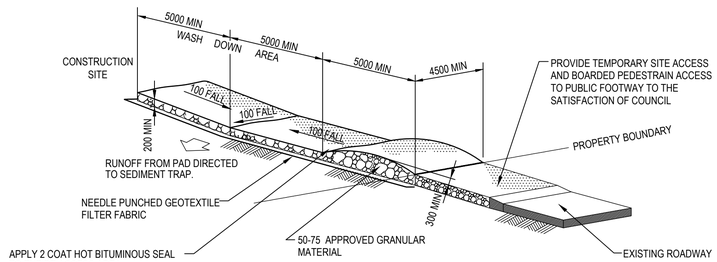
SEDIMENT FENCE
NTS



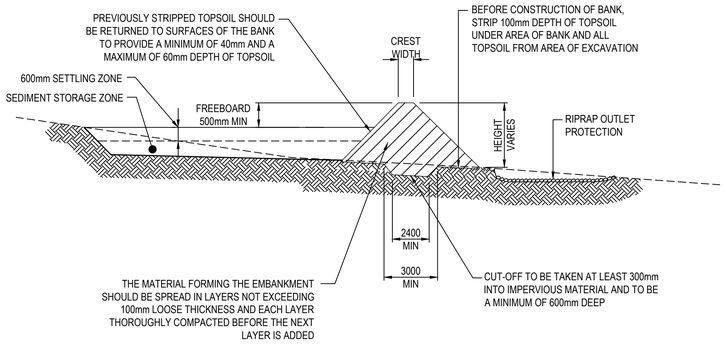
HAY BALE AND GEOTEXTILE SEDIMENT FILTER
NTS



MESH AND GRAVEL INLET FILTER
NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA
NTS



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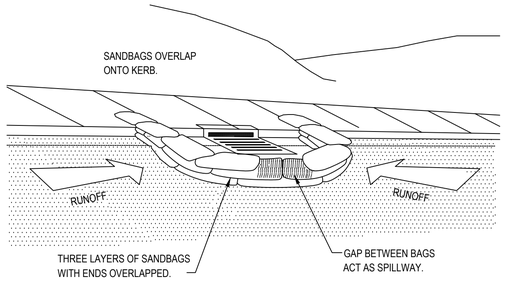
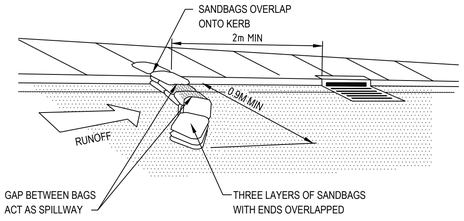
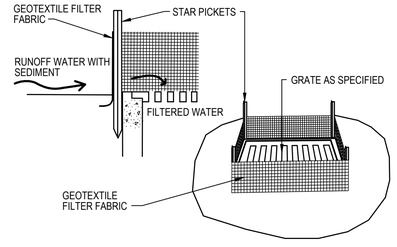
NTS



SANDBAG SEDIMENT TRAP FOR KERB INLET AT SUMP
NTS



SANDBAG SEDIMENT TRAP FOR KERB INLET ON GRADE
NTS



GEOTEXTILE FILTER PIT SURROUND
NTS

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	N.T.S	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-102-10006310-nsd-ErosionAndSedimentControlDetails.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: EROSION AND SEDIMENT CONTROL DETAILS

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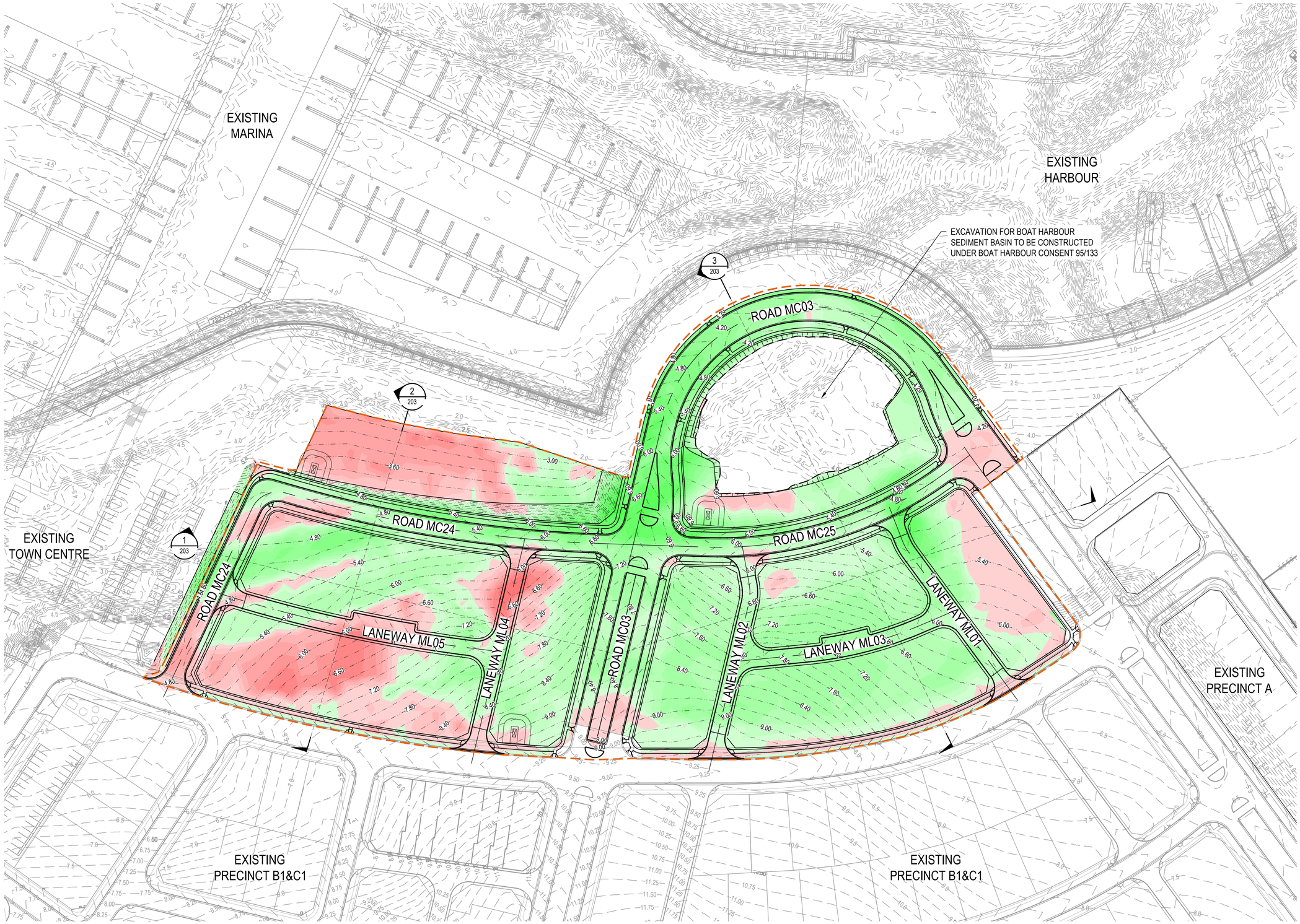
Drawing No.	Project No.	Issue
C-B2C2-102–	10006310	– 04



CUT AND FILL LEGEND

- PROPOSED LIMIT OF WORKS BOUNDARY
- 2.0 DESIGN CONTOURS (0.25M INTERVAL)
- 2.0 EXISTING CONTOURS

DEPTH RANGE LEGEND

	LOWER		UPPER	
DEPTH OF FILL	-99999	to	-3.5	
	-3.5	to	-3	
	-3	to	-2.5	
	-2.5	to	-2	
	-2	to	-1.5	
	-1.5	to	-1	
	-1	to	-0.5	
	-.5	to	0.00	
DEPTH OF CUT	0.000	to	.5	
	.5	to	1.0	
	1.0	to	1.5	
	1.5	to	2	
	2	to	2.5	
	2.5	to	3	
	3	to	3.5	
	3.5	to	9999	

FILL 37,500 m³
CUT 9,900 m³
BALANCE = 27,600m³

NOTES

VOLUMES CALCULATED BASED ON THE FOLLOWING ASSUMPTIONS:

1. VOLUME AND DEPTHS BASED ON SURVEY AVAILABLE AT DESIGN PHASE
2. CONTOURS SHOWN ARE THE PROPOSED FINISHED LEVEL.
3. HATCHING AND ESTIMATED VOLUMES SHOWN REPRESENTS THE DEPTH RANGE BETWVEN THE EXISTING TOPO/SURVEY INFORMATION AND FINISHED SURFACE LEVEL. THIS IS PRIOR TO ANY FILLING AND SURCHARGING ON SITE.
4. NO ALLOWANCE HAS BEEN MADE FOR:
   - STORMWATER UTILITIES TRENCHING
   - BUILDING SLABS

Issue	Description	Date
05	UPDATED DA ISSUE	28/10/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2019

0 15 30 45 60 75m

1 : 750

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-201-10006310-nsd-BulkEarthworksCutAndFillPlan.dwg

Project: SHELL COVE PRECINCT B2 AND C2

Title: BULK EARTHWORKS CUT & FILL PLAN

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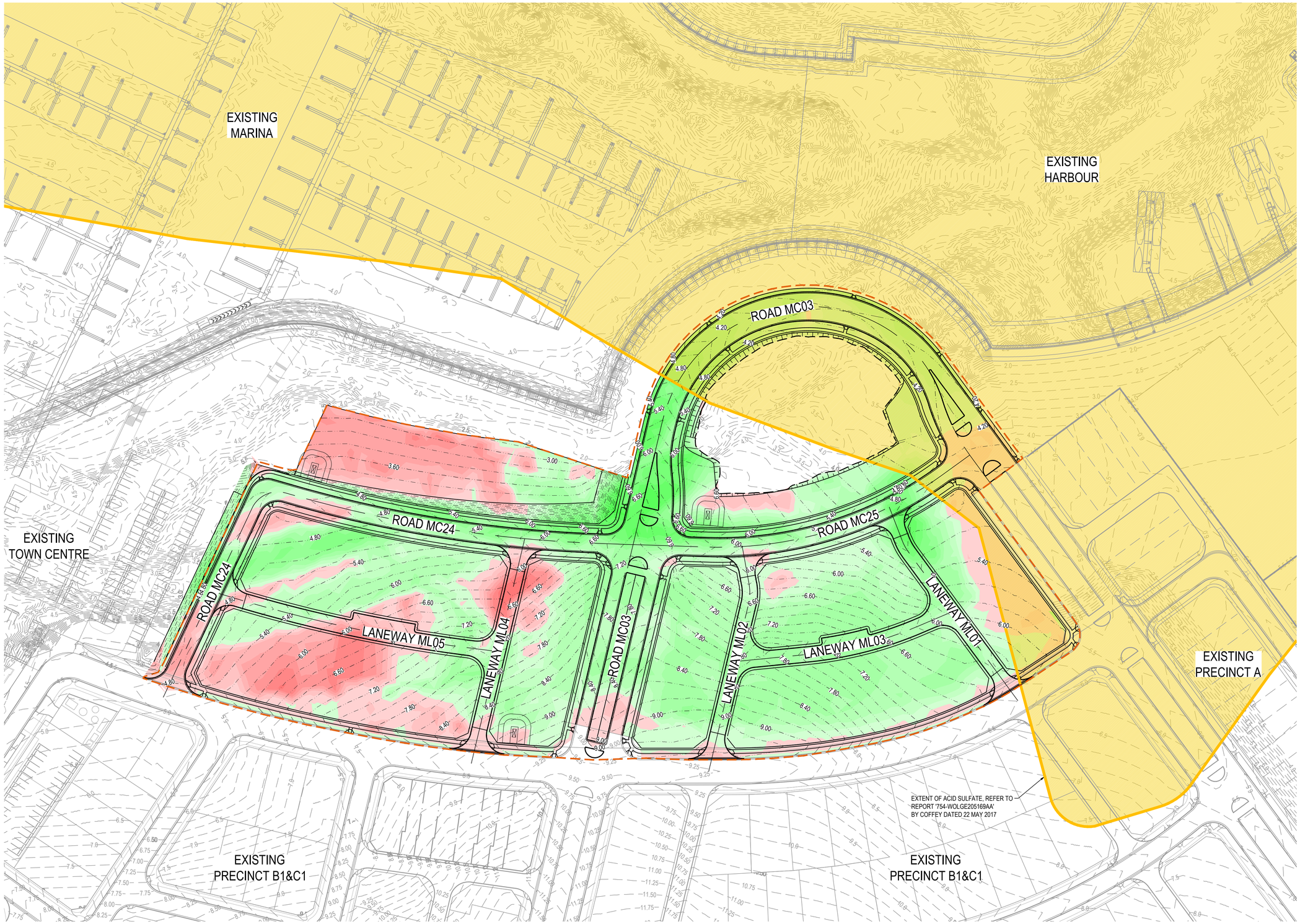
Drawing No.	Project No.	Issue
C-B2C2-201–	10006310	– 05

100mm on Original



CUT AND FILL LEGEND

- PROPOSED LIMIT OF WORKS BOUNDARY
- 2.0 DESIGN CONTOURS (0.25M INTERVAL)
- 2.0 EXISTING CONTOURS
- EXTENT OF ACID SULFATE SOILS

DEPTH RANGE LEGEND

	LOWER		UPPER	
DEPTH OF FILL	-99999	to	-3.5	
	-3.5	to	-3	
	-3	to	-2.5	
	-2.5	to	-2	
	-2	to	-1.5	
	-1.5	to	-1	
	-1	to	-0.5	
	-.5	to	0.00	
DEPTH OF CUT	0.000	to	.5	
	.5	to	1.0	
	1.0	to	1.5	
	1.5	to	2	
	2	to	2.5	
	2.5	to	3	
	3	to	3.5	
	3.5	to	9999	

FILL 37,500 m³
CUT 9,900 m³
BALANCE = 27,600m³

NOTES

1. DEPTH RANGE IS BASED ON A COMPARISON BETWEEN THE DESIGN SURFACE AND THE EXISTING SURFACE PRIOR TO ANY FILLING OR SURCHARGING TO DEMONSTRATE THAT THERE IS GENERALLY NO PROPOSED EARTHWORKS IN CUT OVER THE IDENTIFIED AREAS OF ACID SULFATE SOILS
2. PROPOSED SURFACE CONTOURS ARE TO FINISHED SURFACE LEVEL AND DO NOT CONSIDER ANY "BOXING" THAT MAY BE REQUIRED.
3. CUT AND FILL DEPTHS ARE BASED ON A COMPARISON BETWEEN THE SURVEY SURFACE PRIOR TO ANY FILLING AND SURCHARGING ON-SITE (PROVIDED BY ADVISIAN 13/10/17).

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

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1 : 750

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

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Project: SHELL COVE
PRECINCT B2 AND C2

Title: POTENTIAL IMPACTS ON ACID SULFATE SOIL PLAN

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arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-202–	10006310	– 04

100mm on Original

Date Plotted: 25 Oct 2019 - 03:46PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\11-DA\c-b2c2-202-10006310-nsd-PotentialImpactsOnAcidSulfateSoilsPlan.dwg V1

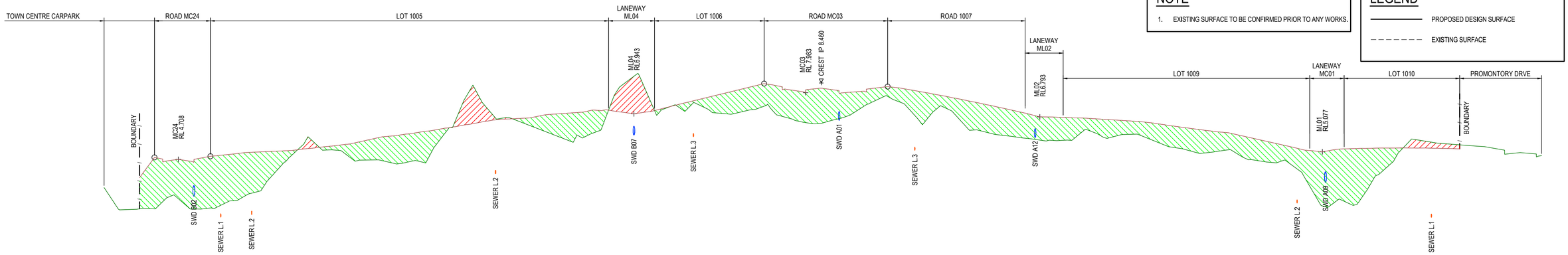
NOTE

1. EXISTING SURFACE TO BE CONFIRMED PRIOR TO ANY WORKS.

LEGEND

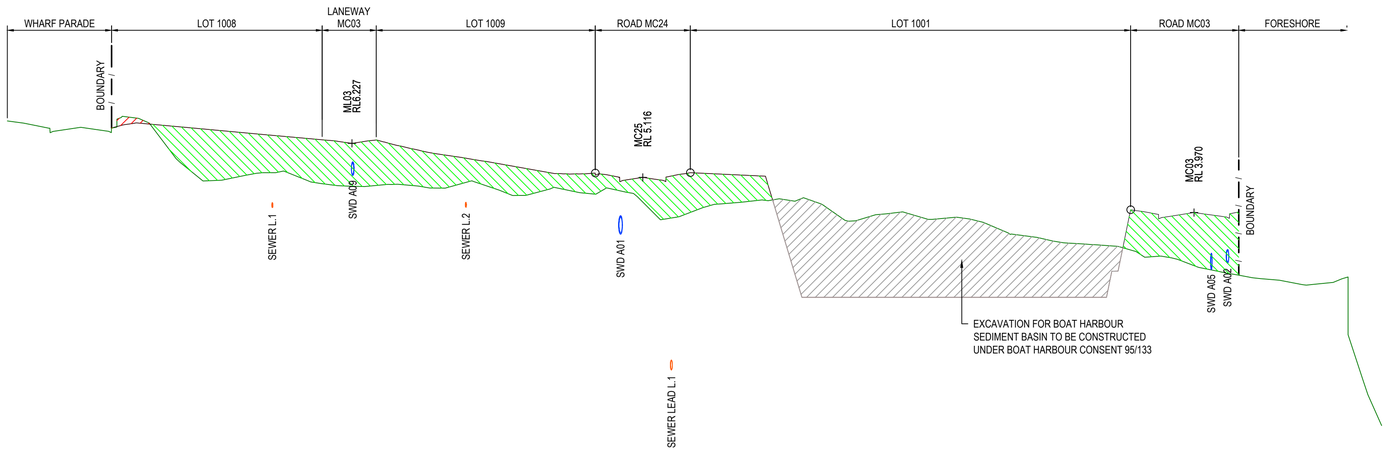
PROPOSED DESIGN SURFACE

EXISTING SURFACE



DATUM RL -4.0

| | | |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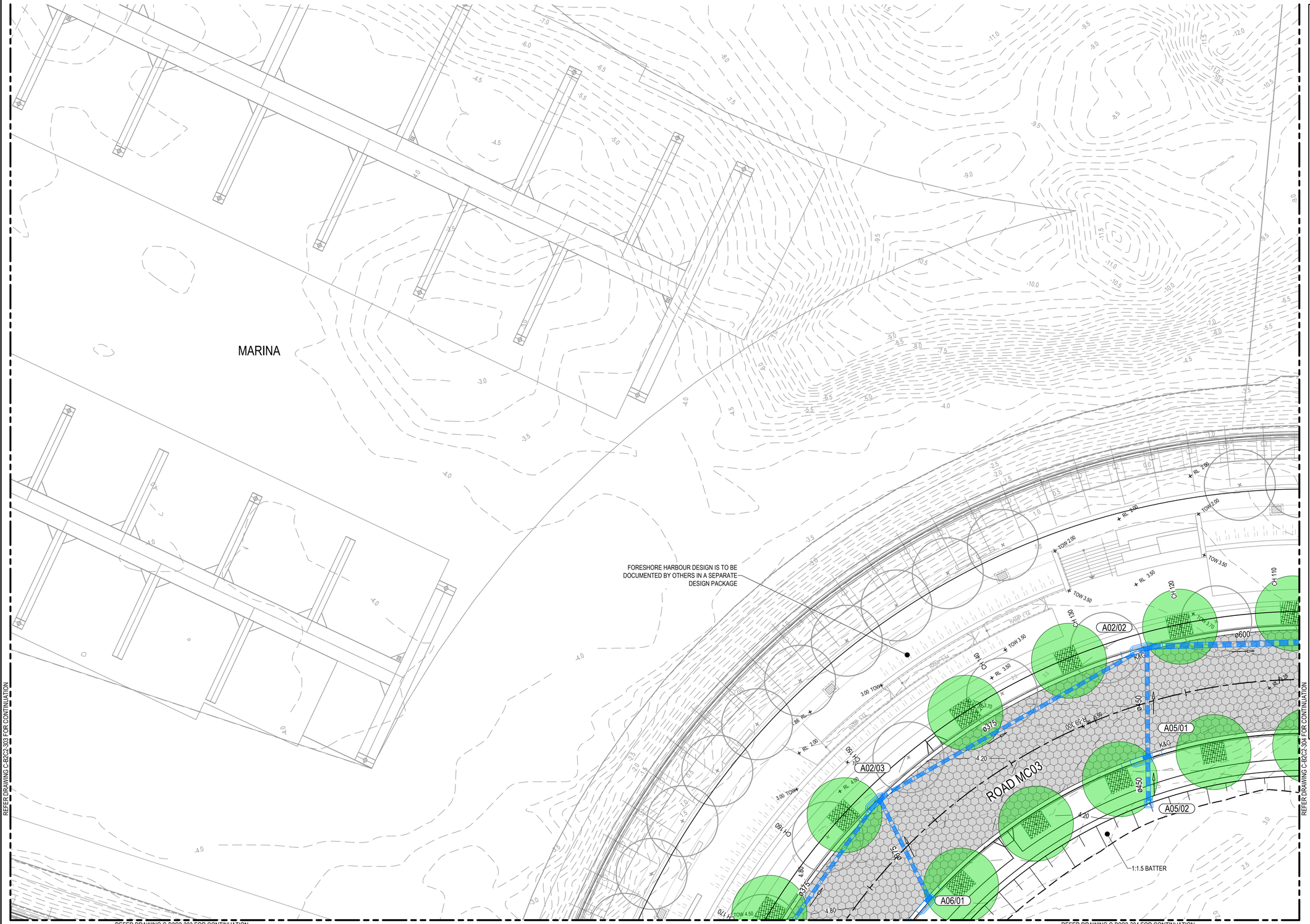
LOT 1008
LANEWAY MC03
LOT 1009
ROAD MC24
LOT 1001
ROAD MC03
FORESHORE
BOUNDARY
ML03 RL 6.227
MC25 RL 5.116
MC03 RL 3.970
SWD A09
SWD A01
SWD A05
SWD A06
SEWER L.1
SEWER L.2
SEWER LEAD L.1
BOUNDARY
EXCAVATION FOR BOAT HARBOUR
SEDIMENT BASIN TO BE CONSTRUCTED
UNDER BOAT HARBOUR CONSENT 95/133

DATUM RL -4.0

| | | |



LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- K&G — PROPOSED KERB AND GUTTER
- K&T — PROPOSED KERB AND TOE
- DD — PROPOSED DISH DRAIN
- KO — PROPOSED KERB ONLY
- PR — PROPOSED PEDESTRIAN RAMP
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- A06/01 — PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- A06/01 — EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- A06/01 — FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- S — PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m

1 : 200

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
		Approved J. HEYDON	

File name: C-B2C2-301-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet1.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 1

ARCADIS
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arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-301–	10006310	– 04

Date Plotted: 25 Oct 2019 - 02:05PM File Name: C:\12dSW\data\AUSY01APP04\AA0006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-301-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet1.dwg V1

REFER DRAWING C-B2C2-301 FOR CONTINUATION

EXISTING HARBOUR

FORESHORE HARBOUR DESIGN IS TO BE DOCUMENTED BY OTHERS IN A SEPARATE PACKAGE

CDS OR EQUIVALENT GPT, SIZE AND MODEL TO BE DETERMINED DURING DETAILED DESIGN

JELLYFISH OR EQUIVALENT, SIZE AND MODEL TO BE DETERMINED DURING DETAILED DESIGN

STORMWATER OUTLET PIPE TO CONNECT TO EXISTING BOAT HARBOUR OUTLET STRUCTURE

EXISTING BOAT HARBOUR OUTLET STRUCTURE

ROAD MC03

A01/01 A01/02 A01/03 A01/04 A01/05 A01/06 A01/07 A01A/01 A01A/02 A02/01 A04/01 A14/01

1:1.5 BATTER

REFER DRAWING C-B2C2-305 FOR CONTINUATION

LEGEND

- LIMIT OF WORKS BOUNDARY
- 2.0 DESIGN CONTOURS (0.25m INTERVAL)
- 6.5 EXISTING CONTOURS (0.5m INTERVAL)
- K&G PROPOSED KERB AND GUTTER
- K&T PROPOSED KERB AND TOE
- DD PROPOSED DISH DRAIN
- KO PROPOSED KERB ONLY
- PR PROPOSED PEDESTRIAN RAMP
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- A06/01 PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- A06/01 EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- A06/01 FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- S PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m

1 : 200

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

File name: C-B2C2-302-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet2.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 2

ARCADIS
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ABN 76 104 485 289
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Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-302–	10006310	– 04

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER (K&G)
- PROPOSED KERB AND TOE (K&T)
- PROPOSED DISH DRAIN (DD)
- PROPOSED KERB ONLY (KO)
- PROPOSED PEDESTRIAN RAMP (PR)
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- PROPOSED STORMWATER PIT NAME (A06/01)
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- EXISTING STORMWATER PIT NAME (A06/01)
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- FUTURE STORMWATER PIT NAME (A06/01)
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- PROPOSED SEWER (S)
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m

1 : 200

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 200	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

File: C-B2C2-303-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet3.dwg

Project: SHELL COVE PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 3

ARCADIS
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Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-303–	10006310 –	05

100mm on Original

Date Plotted: 4 Nov 2019 - 04:47PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-303-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet3.dwg V1

REFER DRAWING C-B2C2-301 FOR CONTINUATION

REFER DRAWING C-B2C2-303 FOR CONTINUATION

REFER DRAWING C-B2C2-305 FOR CONTINUATION

REFER DRAWING C-B2C2-306 FOR CONTINUATION

REFER DRAWING C-B2C2-307 FOR CONTINUATION

LOT 1001

LOT 1002

LOT 1006

LOT 1007

LOT 1008

FORESHORE

BATTER AT 1 IN 4 GRADES TO EXISTING LEVELS

1:1.5 BATTER

1:1 BATTER

PROPOSED SUBSTATION

ROAD MC24

ROAD MC25

ROAD MC03

LANEWAY ML04

A02/04 A06/01 A07/01 A02/05 A02/06 A02/07 B06/02 B06/01 B01/13 B01/14 B01/15 B07/01 B01/16 A01/15 A01/16 A11/01 A01/14 A12/01

RL3.451 RL3.504 RL3.843

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER (K&G)
- PROPOSED KERB AND TOE (K&T)
- PROPOSED DISH DRAIN (DD)
- PROPOSED KERB ONLY (KO)
- PROPOSED PEDESTRIAN RAMP (PR)
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- PROPOSED STORMWATER PIT NAME (A06/01)
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- EXISTING STORMWATER PIT NAME (A06/01)
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- FUTURE STORMWATER PIT NAME (A06/01)
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- PROPOSED SEWER (S)
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20m

1 : 200

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

File name: C-B2C2-304-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet4.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 4

ARCADIS
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arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-304–	10006310	– 05

Date Plotted: 4 Nov 2019 - 04:48PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\11-DA\c-b2c2-304-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet4.dwg V1

REFER DRAWING C-B2C2-302 FOR CONTINUATION

REFER DRAWING C-B2C2-304 FOR CONTINUATION

REFER DRAWING C-B2C2-308 FOR CONTINUATION

LOT 1001

LOT 1010

LOT 1009

PRECINCT A

ROAD MC03

ROAD MC25

LANEWAY ML02

A01/07 A14/01 A03/01 A14/02 A01/08 A01/09 A01/10 A01/11 A08/01 A15/01 A01/12 A01/13 A09/01 A09/02 A01/05

1:1.5 BATTER

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER (K&G)
- PROPOSED KERB AND TOE (K&T)
- PROPOSED DISH DRAIN (DD)
- PROPOSED KERB ONLY (KO)
- PROPOSED PEDESTRIAN RAMP (PR)
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- A06/01 PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- A06/01 EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- A06/01 FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- S PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m

1 : 200

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
		Approved J. HEYDON	

File name: C-B2C2-305-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet5.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 5

ARCADIS
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arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-305–	10006310	– 05

Date Plotted: 4 Nov 2019 - 04:50PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-305-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet5.dwg V1

REFER DRAWING C-B2C2-303 FOR CONTINUATION

REFER DRAWING C-B2C2-304 FOR CONTINUATION

REFER DRAWING C-B2C2-307 FOR CONTINUATION

EXISTING
TOWN CENTRE

ROAD MC24

LANEWAY ML05

WHARF PARADE

EXISTING
PRECINCT B1&C1

BREAK OUT EXISTING KERB AND
CONSTRUCT NEW ROAD INTERSECTION

B02/01 B02/02 B02/03 B02/04
B04/01 B04/02 B04/03 B04/04 B04/05 B04/06 B04/07 B04/08
C02/02 C02/04 C02/05
C11/01 C04/01 C05/01

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER (K&G)
- PROPOSED KERB AND TOE (K&T)
- PROPOSED DISH DRAIN (DD)
- PROPOSED KERB ONLY (KO)
- PROPOSED PEDESTRIAN RAMP (PR)
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- A06/01 PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- A06/01 EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- A06/01 FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- S PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m
1 : 200

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

File: c-b2c2-306-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet6.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND
STORMWATER DRAINAGE PLANS
SHEET 6

ARCADIS
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arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-306–	10006310	– 05

REFER DRAWING C-B2C2-304 FOR CONTINUATION

REFER DRAWING C-B2C2-306 FOR CONTINUATION

REFER DRAWING C-B2C2-308 FOR CONTINUATION

LOT 1006

LOT 1007

LOT 1008

LOT 1009

LANEWAY ML05

LANEWAY ML04

ROAD MC03

ROAD MC03

LANEWAY ML02

LANEWAY ML03

WHARF PARADE

EXISTING
PRECINCT B1&C1

PROPOSED SUBSTATION

BREAK OUT EXISTING KERB AND CONSTRUCT NEW ROAD INTERSECTION

BREAK OUT EXISTING KERB AND CONSTRUCT NEW ROAD INTERSECTION

B07/02 B07/03 B07/04 B01/01 B01/02 B02/01 A13/01 A01/17 A01/18 A01/19 A12/02 A12/03 A12/04 A09/07 A09/08 A17/01 A17/02 A02/07 A02/08

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER (K&G)
- PROPOSED KERB AND TOE (K&T)
- PROPOSED DISH DRAIN (DD)
- PROPOSED KERB ONLY (KO)
- PROPOSED PEDESTRIAN RAMP (PR)
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- A06/01 PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- A06/01 EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- A06/01 FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- S PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20m

1 : 200

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 200	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
		Approved J. HEYDON	

File name: C-B2C2-307-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet7.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLANS SHEET 7

ARCADIS
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Drawing No.	Project No.	Issue
C-B2C2-307–	10006310	– 05

Date Plotted: 4 Nov 2019 - 04:52PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-307-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet7.dwg V1

REFER DRAWING C-B2C2-305 FOR CONTINUATION

REFER DRAWING C-B2C2-307 FOR CONTINUATION

LOT 1008

LOT 1009

LOT 1010

LANEWAY ML03

LANEWAY ML01

WHARF PARADE

EXISTING
PRECINCT B1&C1

BREAK OUT EXISTING KERB AND
CONSTRUCT NEW ROAD INTERSECTION

LEGEND

- LIMIT OF WORKS BOUNDARY
- DESIGN CONTOURS (0.25m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- PROPOSED KERB AND GUTTER
- PROPOSED KERB AND TOE
- PROPOSED DISH DRAIN
- PROPOSED KERB ONLY
- PROPOSED PEDESTRIAN RAMP
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAYS (DRIVEWAYS SHOWN ARE REQUIRED LOCATIONS & DRIVEWAYS TO OTHER LOTS TO TO BE DETERMINED BY OWNERS)
- PROPOSED TREE
- PROPOSED STORMWATER PIPE / CULVERT
- PROPOSED STORMWATER PIT NAME
- PROPOSED KERB INLET PIT
- PROPOSED SURFACE INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED GROSS POLLUTANT TRAP
- PROPOSED JELLYFISH UNIT
- EXISTING STORMWATER PIPE / CULVERT
- EXISTING STORMWATER PIT NAME
- EXISTING KERB INLET PIT
- EXISTING SURFACE INLET PIT
- EXISTING JUNCTION PIT
- FUTURE STORMWATER PIPE / CULVERT
- FUTURE STORMWATER PIT NAME
- FUTURE KERB INLET PIT
- FUTURE SURFACE INLET PIT
- FUTURE JUNCTION PIT
- PROPOSED SEWER
- PROPOSED ROAD PAVEMENT
- PROPOSED ROAD ENTRY THRESHOLD
- PROPOSED ROAD PAVEMENT WITH WAVERS
- PROPOSED LANDSCAPING

NOTES

1. REFER TO DRAWING C-B2C2-002 FOR GENERAL NOTES.
2. REFER TO DRAWING C-B2C2-006 FOR TYPICAL ROAD CROSS SECTIONS.
3. REFER TO DRAWING C-B2C4-007 FOR CIVIL WORKS DETAILS.
4. TYPICAL DETAIL FOR PROPOSED ROAD WITH PAVERS ON DRAWING C-B2C2-007

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20m

1 : 200

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 200	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

File name: C-B2C2-308-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet8.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: CIVIL WORKS AND
STORMWATER DRAINAGE PLANS
SHEET 8

ARCADIS
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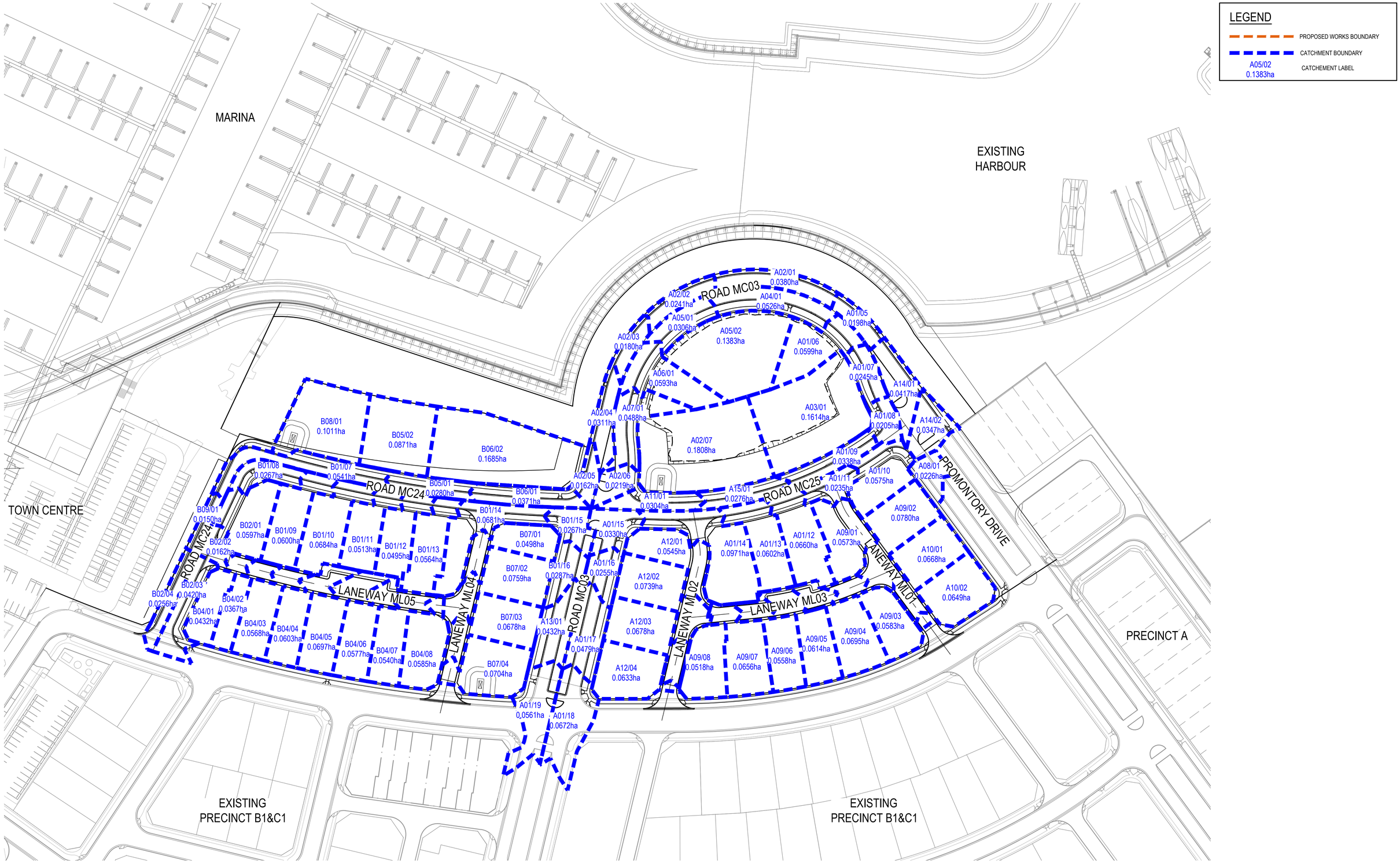
Drawing No.	Project No.	Issue
C-B2C2-308–	10006310	– 05

Date Plotted: 4 Nov 2019 - 04:54PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28ID-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-308-10006310-nsd-CivilWorksAndStormwaterDrainagePlansSheet8.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-311-10006310-nsd-StormwaterDrainageCatchmentPlan.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: STORMWATER DRAINAGE
CATCHMENT PLAN

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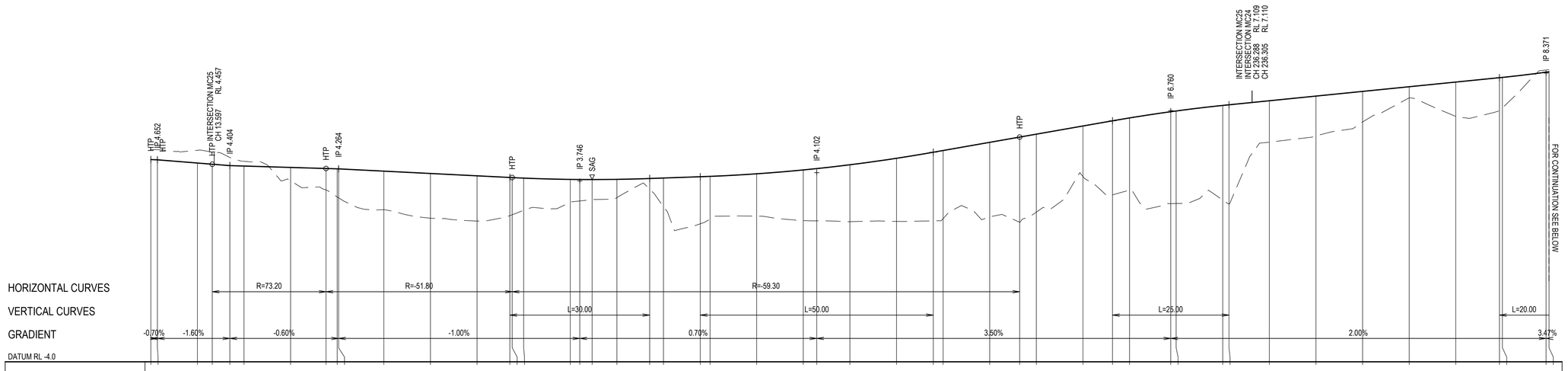
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-311–	10006310	– 05

100mm on Original

Date Plotted: 4 Nov 2019 - 04:55PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-311-10006310-nsd-StormwaterDrainageCatchmentPlan.dwg V1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IP 3.652
HTP
INTERSECTION MC25
CH 13.597
RL 4.457
IP 4.404
HTP
IP 4.264
HTP
IP 3.746
SAG
IP 4.102
HTP
IP 6.760
INTERSECTION MC25
INTERSECTION MC24
CH 236.288
CH 236.305
RL 7.109
RL 7.110
IP 8.371
FOR CONTINUATION SEE BELOW
HORIZONTAL CURVES
VERTICAL CURVES
GRADIENT
DATUM RL -4.0
R=73.20
R=-51.80
R=-59.30
L=30.00
L=50.00
L=25.00
L=20.00
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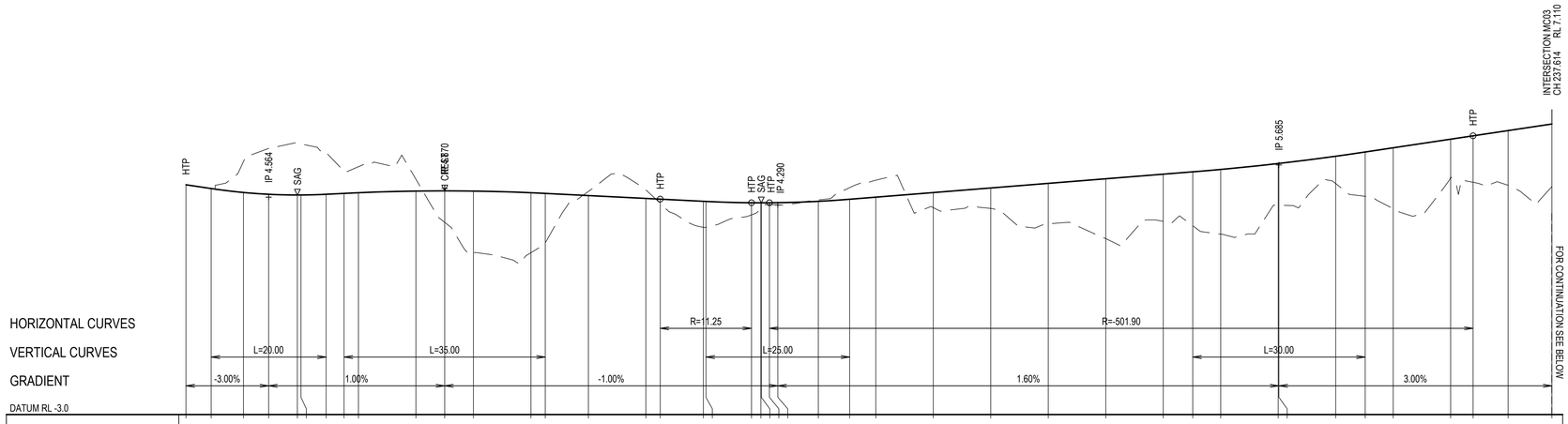
3.47%

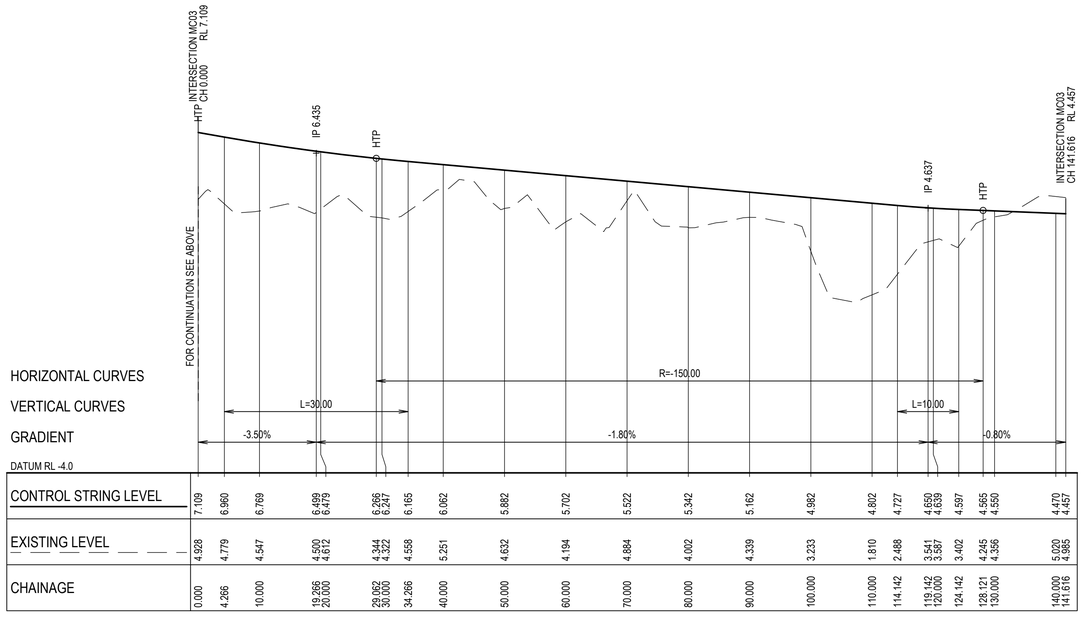
| | | |



CONTROL STRING LEVEL	4.995	4.864	4.727	4.664	4.639	4.639	4.664	4.695	4.718	4.775	4.783	4.775	4.718	4.695	4.620	4.520	4.495	4.420	4.415	4.369	4.357	4.357	4.368	4.372	4.419	4.460	4.563	4.723	4.883	5.043	5.203	5.363	5.445	5.529	5.735	5.738	5.987	6.135	6.281	6.581	6.698	6.881	7.110
EXISTING LEVEL	4.994	4.876	5.806	6.258	6.440	6.415	6.118	5.463	5.623	5.186	3.688	2.612	2.629	2.974	4.762	4.817	4.348	3.511	3.507	3.944	4.158	4.153	4.302	4.293	4.467	4.902	5.155	4.199	4.171	3.635	3.121	3.724	3.565	3.279	4.285	4.285	5.039	4.605	4.163	5.253	5.081	4.977	4.932
CHAINAGE	0.000	4.378	10.000	14.378	19.378	20.000	24.378	27.502	30.000	40.000	45.002	50.000	60.000	62.502	70.000	80.000	82.505	90.000	90.460	98.374	100.000	100.075	101.494	102.960	110.000	115.460	120.000	130.000	140.000	150.000	160.000	170.000	175.132	180.000	190.000	190.132	200.000	205.132	210.000	220.000	223.899	230.000	237.614

MC24 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.



CONTROL STRING LEVEL	7.109	6.960	6.769	6.499	6.479	6.286	6.247	6.165	6.062	5.882	5.702	5.522	5.342	5.162	4.982	4.802	4.727	4.650	4.639	4.597	4.565	4.550	4.470	4.457
EXISTING LEVEL	4.928	4.779	4.547	4.500	4.612	4.344	4.322	4.558	5.251	4.632	4.194	4.884	4.002	4.339	3.233	1.810	2.488	3.541	3.587	3.402	4.245	4.356	5.020	4.985
CHAINAGE	0.000	4.266	10.000	19.266	20.000	28.062	30.000	34.266	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	114.142	119.142	120.000	124.142	128.121	130.000	140.000	141.616

MC25 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 10 20 30 40 50m
1 : 500 HORIZONTAL

0 2 4 6 8 10m
1 : 100 VERTICAL

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	AS SHOWN	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

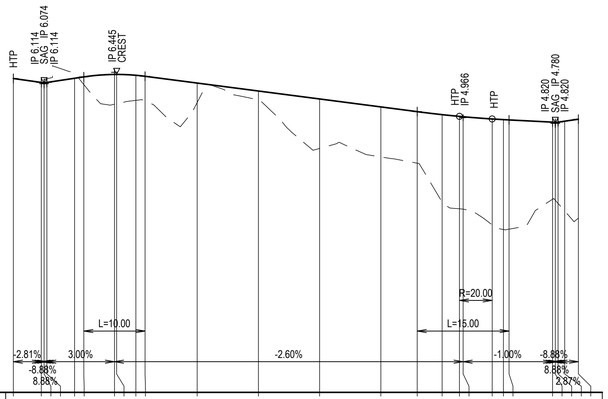
Filename: C-b2c2-322-10006310-nsd-RoadLongitudinalSectionsSheet2.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: ROAD LONGITUDINAL SECTIONS
SHEET 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-322—	10006310	— 04


HTP
IP 6.114
SAG IP 6.074
IP 6.114
IP 6.445
CREST
HTP
IP 4.966
HTP
IP 4.820
SAG IP 4.780
IP 4.820
HORIZONTAL CURVES
VERTICAL CURVES
GRADIENT
DATUM RL -4.0
R=20.00
L=10.00
L=15.00
-2.81%
3.00%
-2.60%
-1.00%
-8.88%
8.88%
2.82%

| | | |

NOTE

REFER TO DRAWINGS C-B2C2-412 TO C-B2C2-417 FOR INTERSECTION TURNING PATHS.

EXISTING MARINA

EXISTING HARBOUR

EXISTING TOWN CENTRE

ROAD MC03

ROAD MC24

ROAD MC25

ROAD MC24

ROAD MC03

LANEWAY ML04

LANEWAY ML05

LANEWAY ML01

LANEWAY ML02

LANEWAY ML03

PROMONTORY DRIVE

WHARF PARADE

WHARF PARADE

PRECINCT A

EXISTING PRECINCT B1&C1

EXISTING PRECINCT B1&C1

NORTHWEST CORNER TURN

INTERSECTION 1

INTERSECTION 2

INTERSECTION 4

INTERSECTION 5

INTERSECTION 6

INTERSECTION 7

INTERSECTION 8

INTERSECTION 9

INTERSECTION 10

INTERSECTION 11

INTERSECTION 12

1001
5755m²

1002
3482m²

1004
3420m²

1005
3110m²

1006
2061m²

1007
2008m²

1008
2126m²

1009
2888m²

1010
2043m²

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
Filename: C-b2c2-411-10006310-nsd-TurningPathsLayoutPlan.dwg		Approved J. HEYDON	

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
LAYOUT PLAN

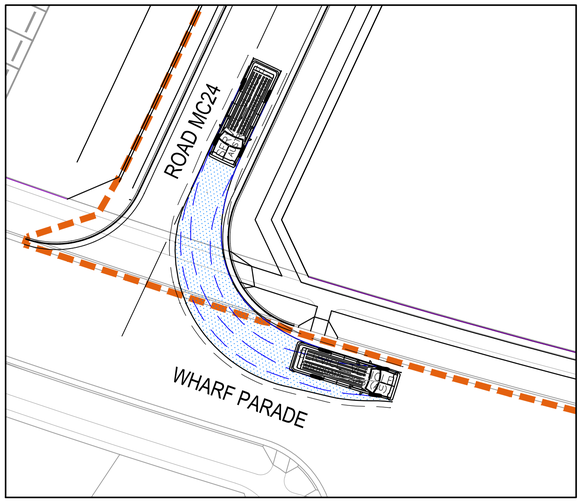
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289

Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

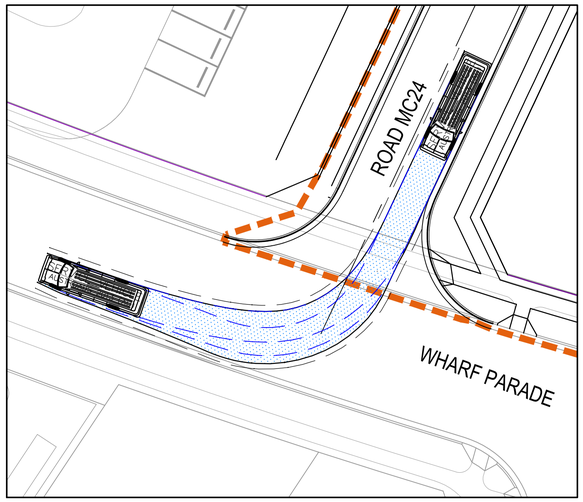
Drawing No.	Project No.	Issue
C-B2C2-411–	10006310	– 05

100mm on Original

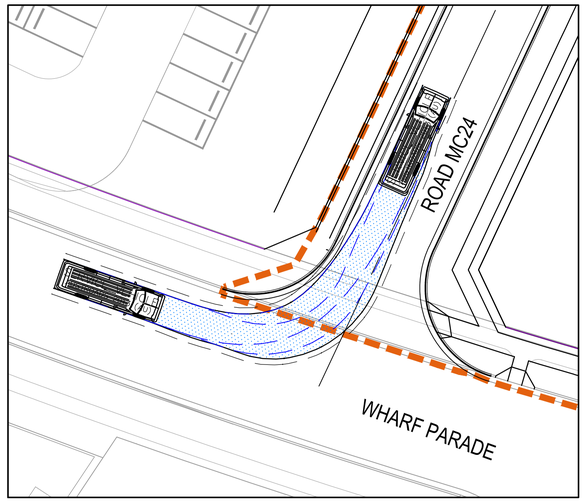
Date Plotted: 4 Nov 2019 - 04:49PM File Name: C:\12dSW\data\AUSY01APP04\AA0006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-411-10006310-nsd-TurningPathsLayoutPlan.dwg V1



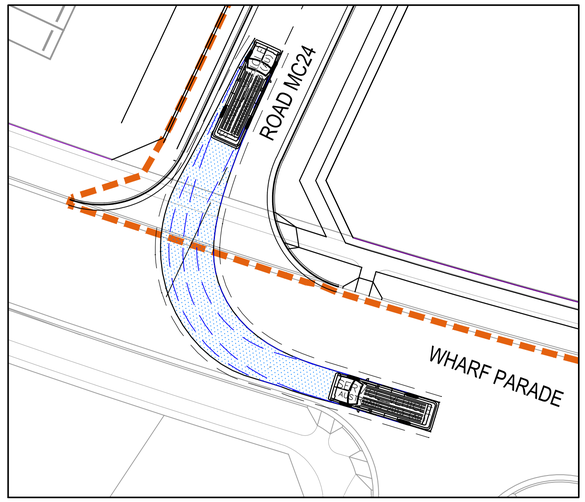
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



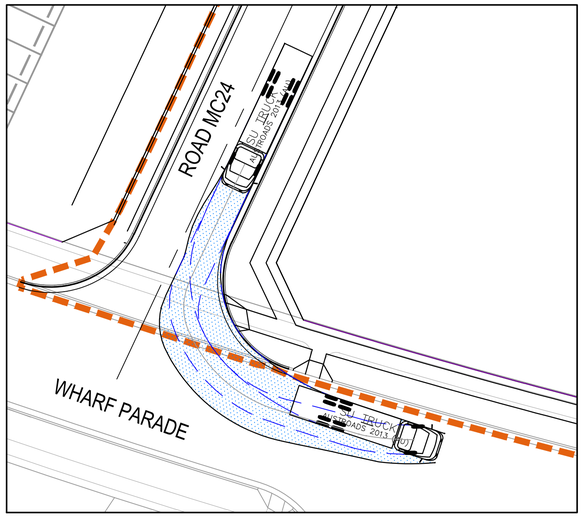
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



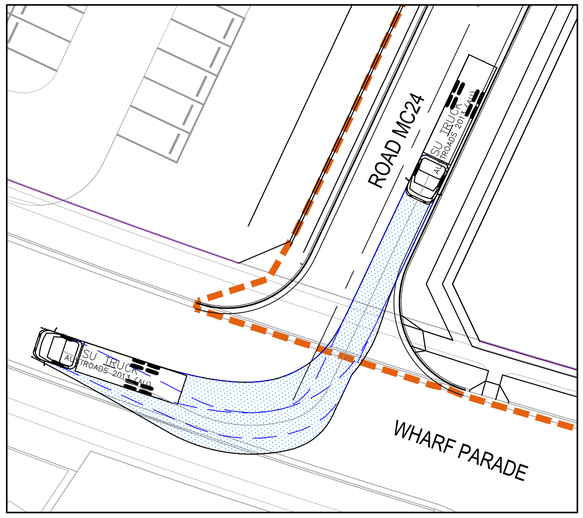
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



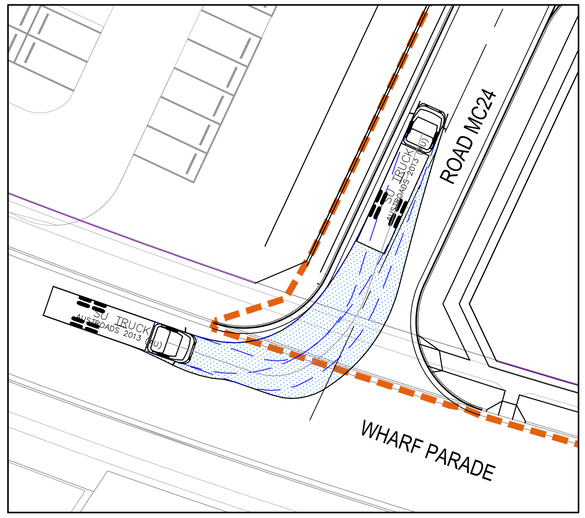
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



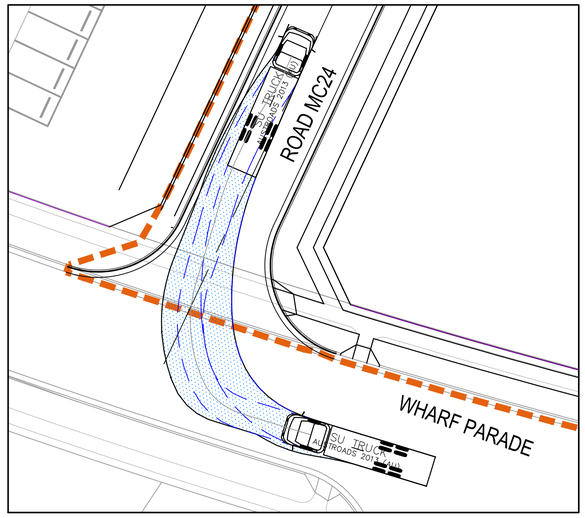
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 1 - ROAD MC24 - WHARF PARADE
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250

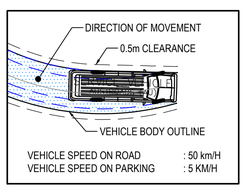


INTERSECTION 1 - ROAD MC24 - WHARF PARADE
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



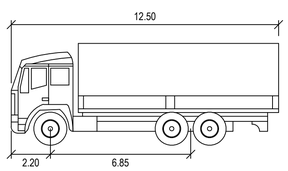
INTERSECTION 1 - ROAD MC24 - WHARF PARADE
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

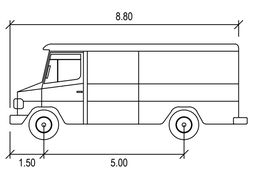
CHECK VEHICLE



SU TRUCK

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	36.6

DESIGN VEHICLE



SERVICE VEHICLE

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-412-10006310-nsd-TurningPathsSheet1.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

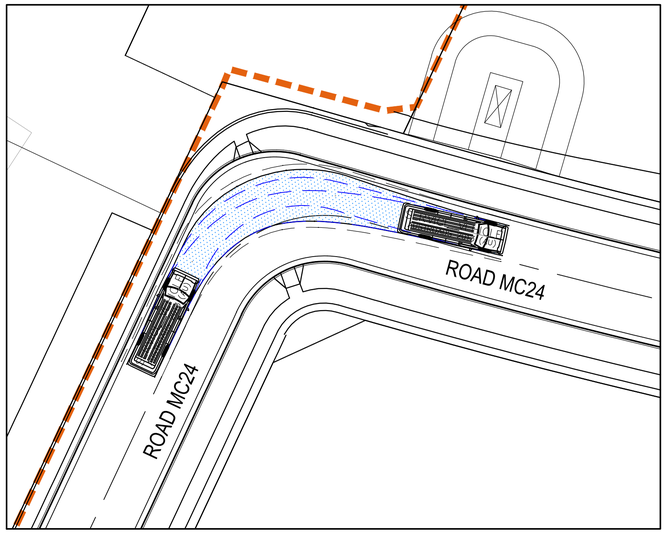
Title: TURNING PATHS
SHEET 1

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

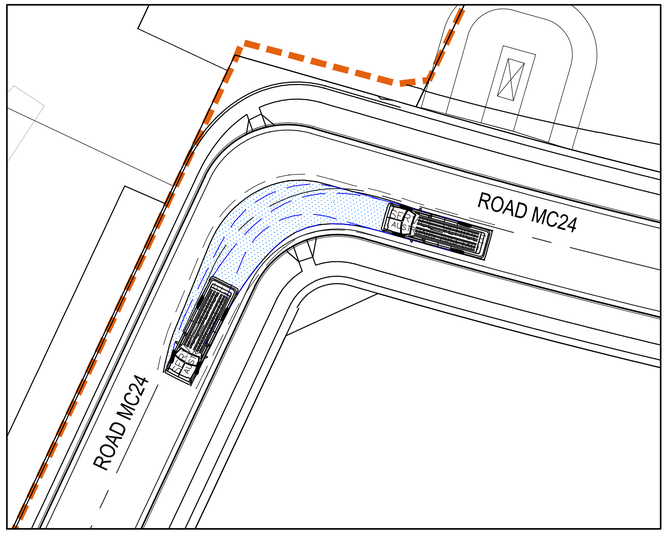
Drawing No.	Project No.	Issue
C-B2C2-412–	10006310	– 05

100mm on Original

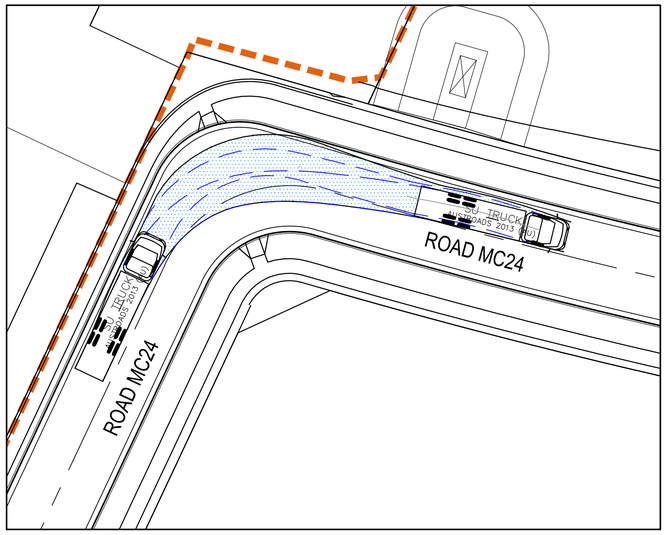
Date Plotted: 4 Nov 2019 - 04:52PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-412-10006310-nsd-TurningPathsSheet1.dwg V1



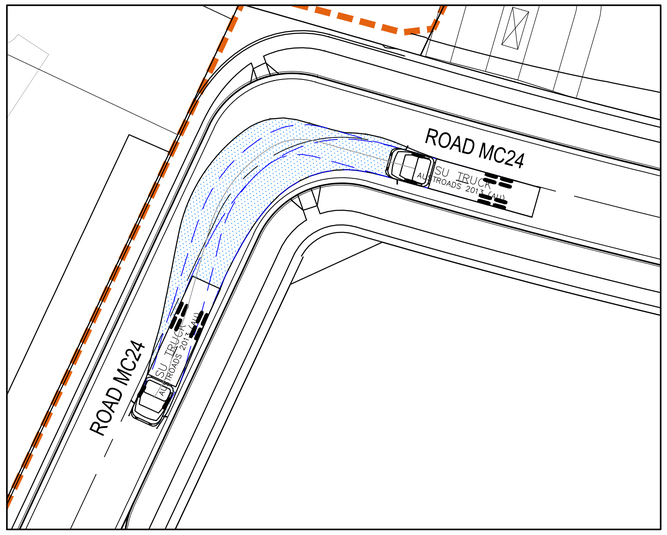
NORTHWEST CORNER TURN - ROAD MC24
8.8 SERVICE VEHICLE - RIGHT TURN AT 5 km/h
SCALE 1 : 250



NORTHWEST CORNER TURN - ROAD MC24
8.8 SERVICE VEHICLE - LEFT TURN AT 5 km/h
SCALE 1 : 250

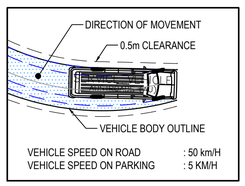


NORTHWEST CORNER TURN - ROAD MC24
12.5 SU TRUCK - RIGHT TURN AT 5 KM/H
SCALE 1 : 250



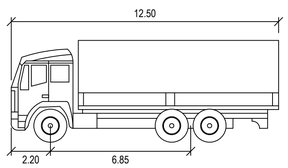
NORTHWEST CORNER TURN - ROAD MC24
12.5 SU TRUCK - LEFT TURN AT 5 KM/H
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

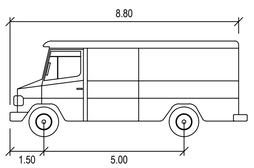
CHECK VEHICLE



SU TRUCK

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	36.6

DESIGN VEHICLE



SERVICE VEHICLE

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

100mm on Original

Client
FRASERS PROPERTY

Status
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

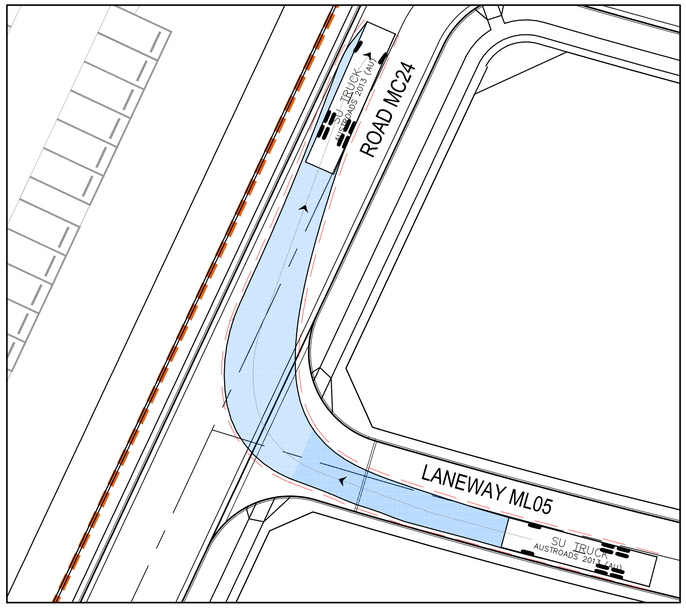
Scales	1 : 250	Current Issue Signatures	
		Drawn	A. CARDEÑO
Original Size	A1	Designed	J. WOOD
Height Datum	AHD	Checked	J. HEYDON
Grid	MGA	Approved	J. HEYDON
Filename:	C-b2c2-413-10006310-nsd-TurningPathsSheet2.dwg		

Project
SHELL COVE
PRECINCT B2 AND C2

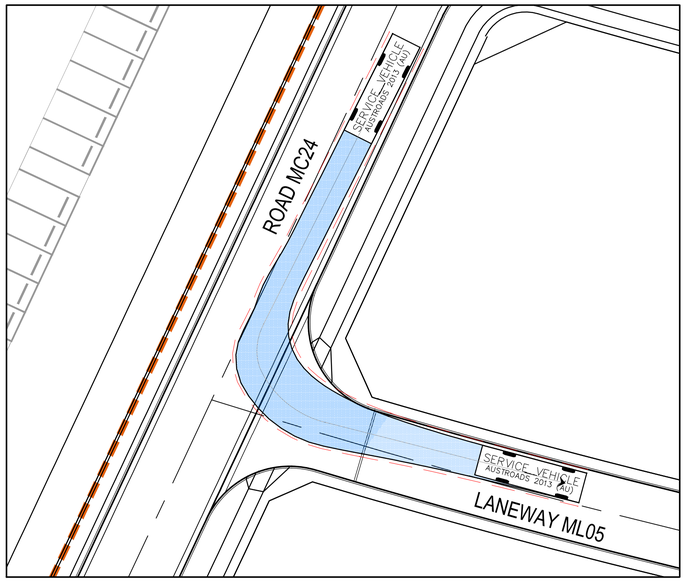
Title
TURNING PATHS
SHEET 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

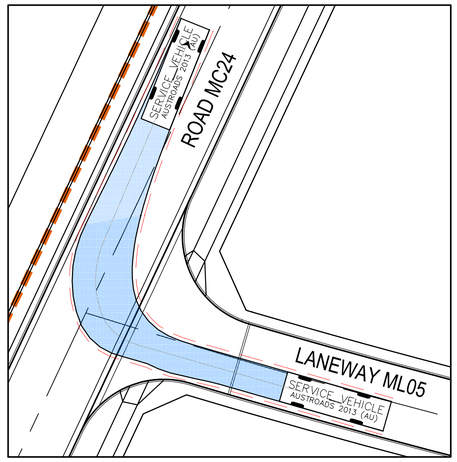
Drawing No.	Project No.	Issue
C-B2C2-413–	10006310	– 05



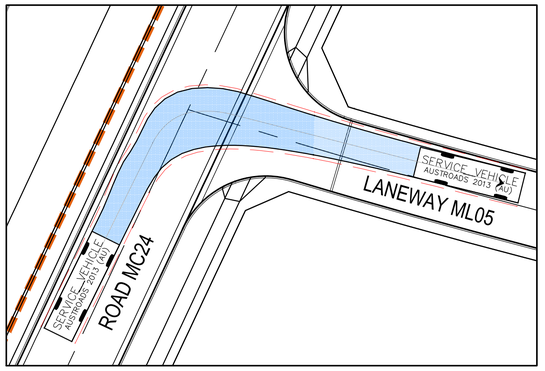
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



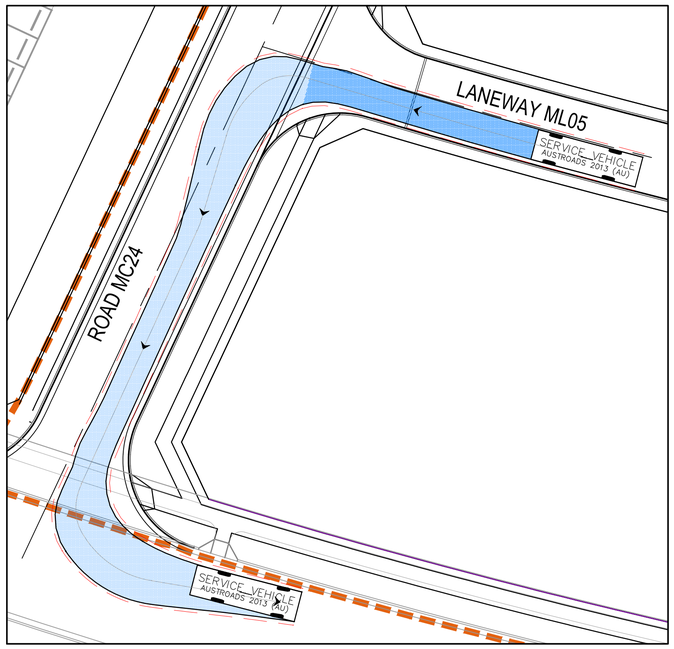
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



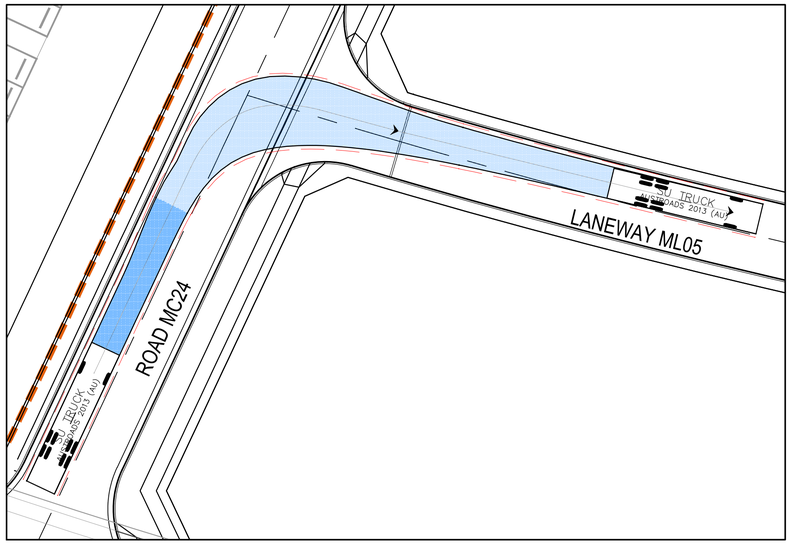
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



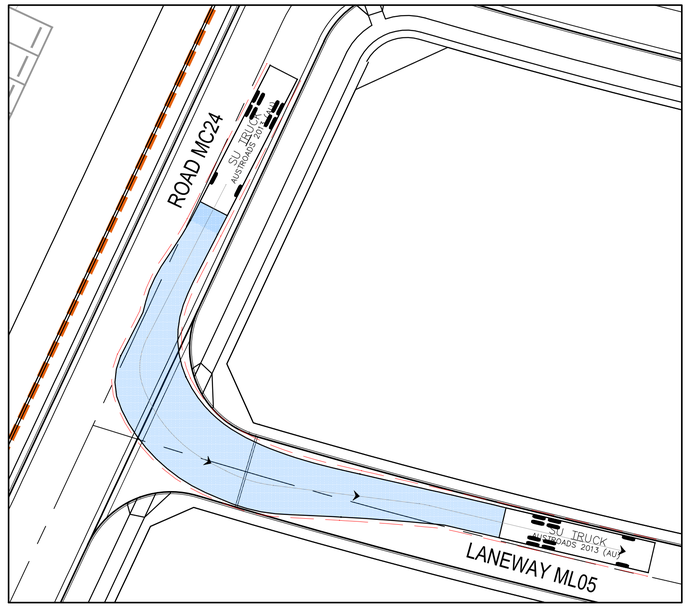
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



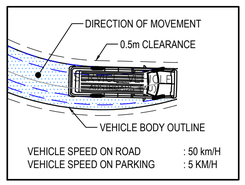
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



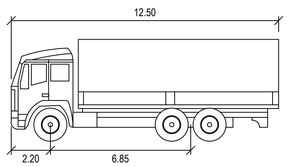
INTERSECTION 2 - ROAD MC24 - LANEWAY ML05
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.

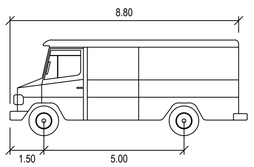
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-414-10006310-nsd-TurningPathsSheet3.dwg

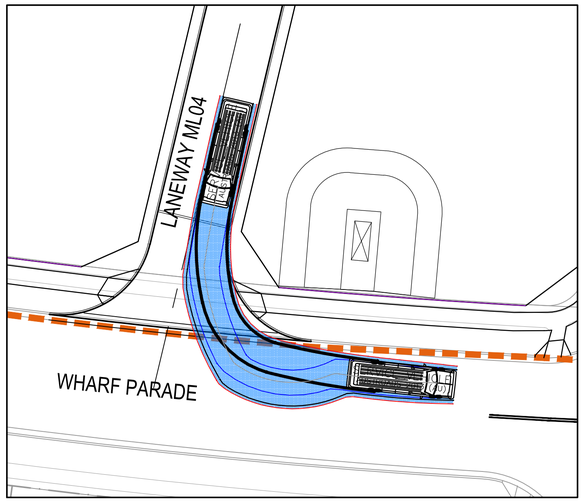
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 3

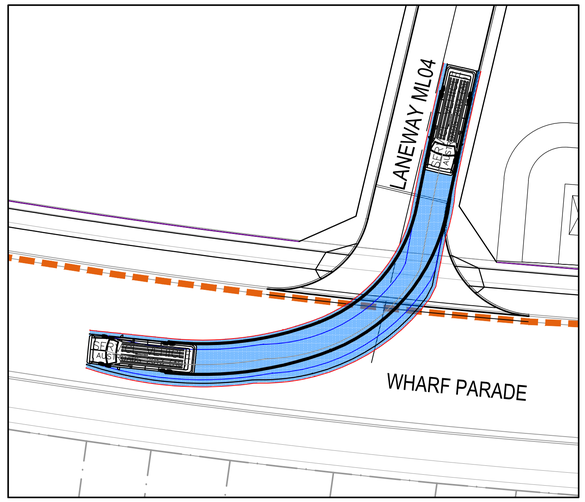
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-414–	10006310	– 05

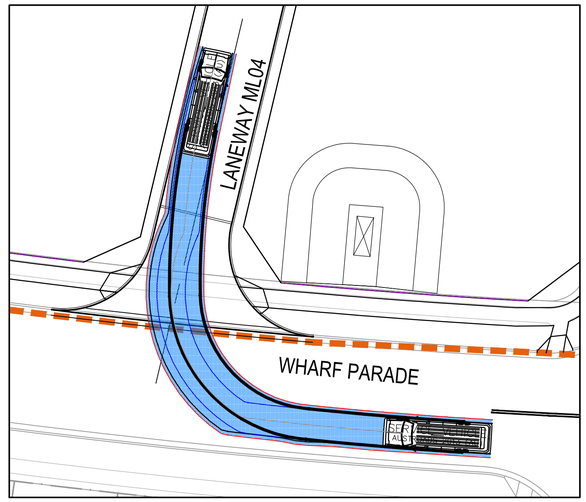
Date Plotted: 4 Nov 2019 - 04:53PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-414-10006310-nsd-TurningPathsSheet3.dwg V1



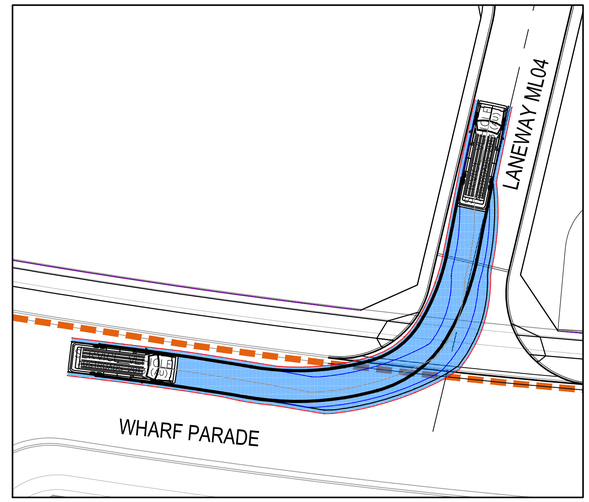
INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



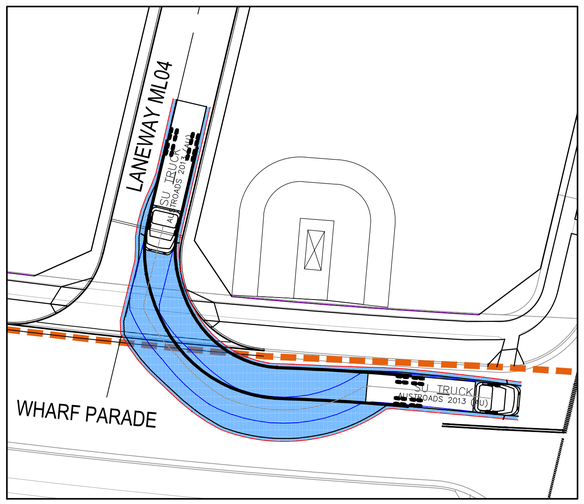
INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



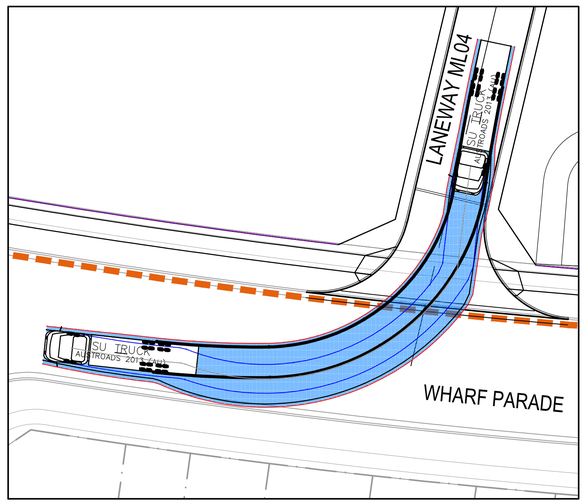
INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



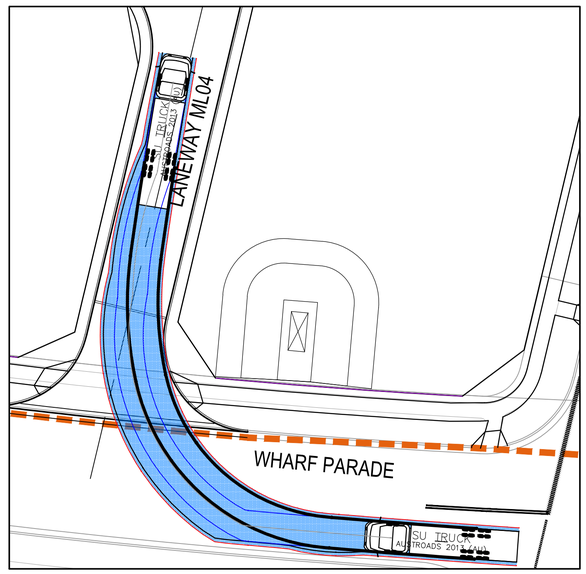
INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



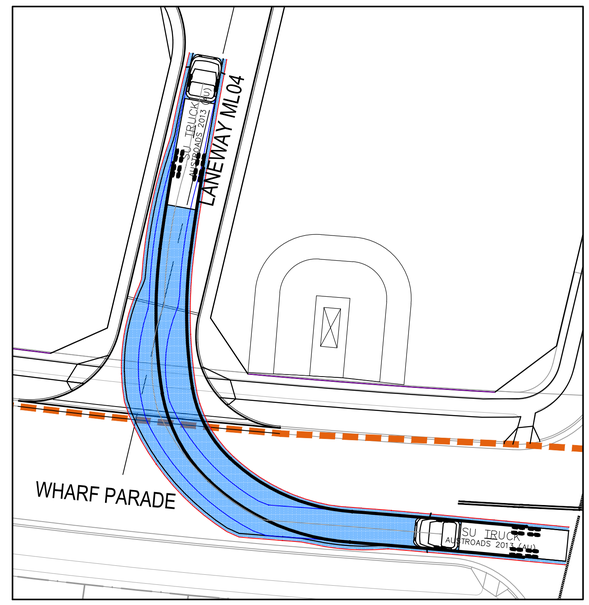
INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 4 - LANEWAY ML04 WHARF PARADE
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250

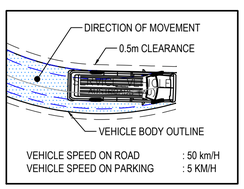


INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

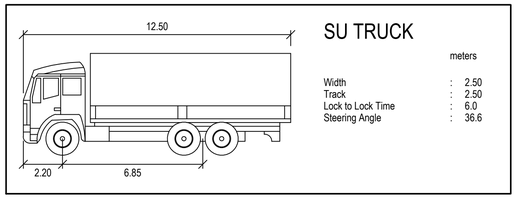


INTERSECTION 4 - LANEWAY ML04 - WHARF PARADE
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



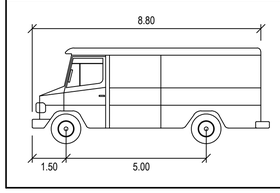
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
Filename:	C-b2c2-415-10006310-nsd-TurningPathsSheet4.dwg	Approved J. HEYDON	

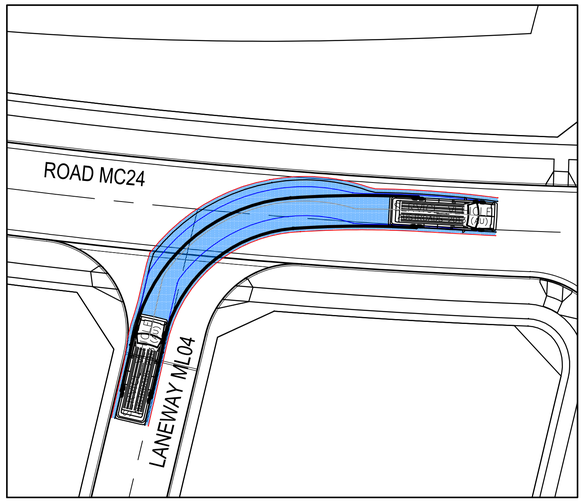
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 4

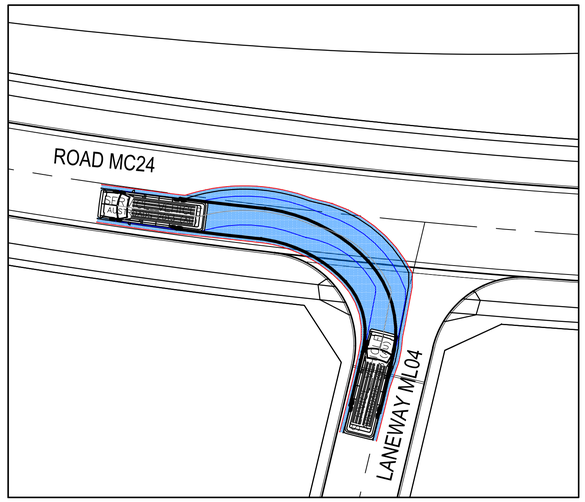
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-415–	10006310	– 05

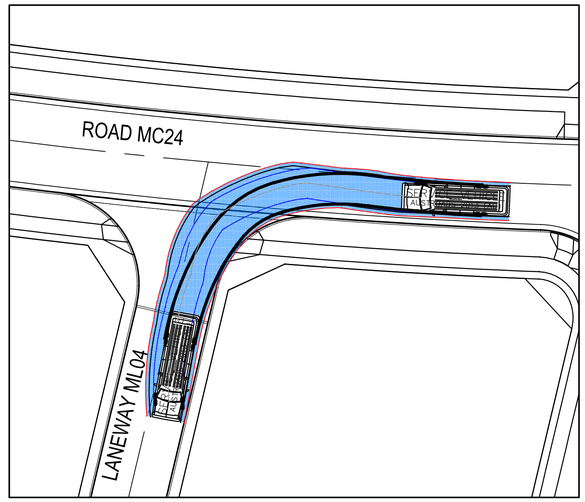
100mm on Original



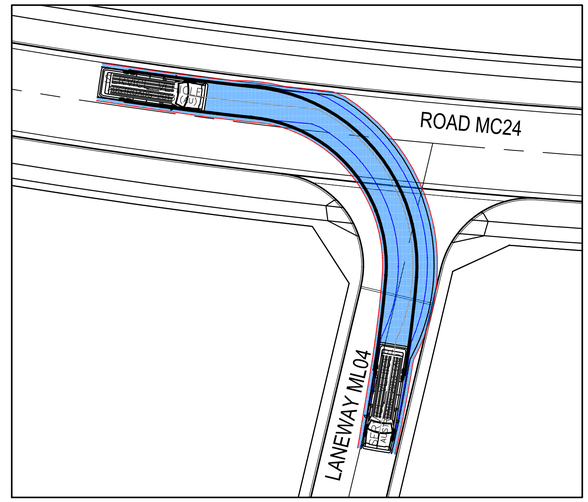
INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



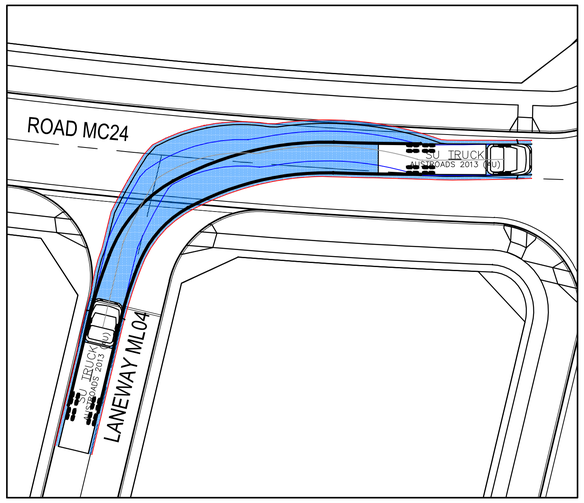
INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



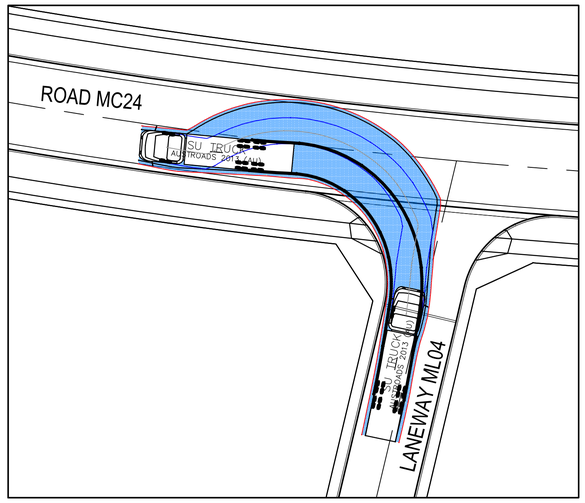
INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



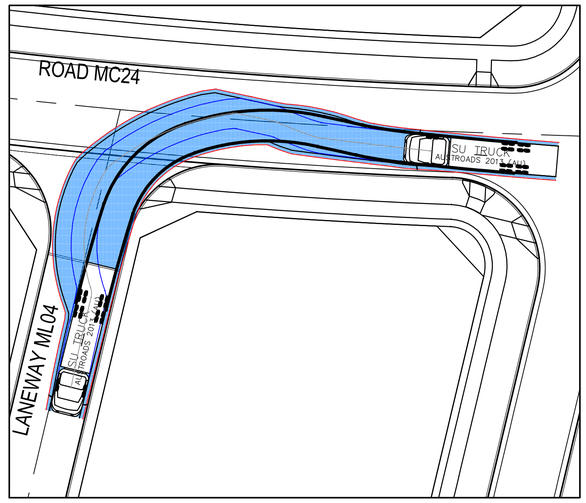
INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



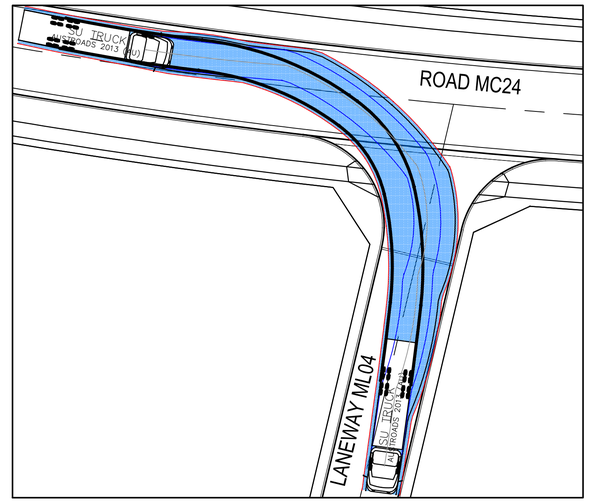
INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 5 - LANEWAY ML04 ROAD MC24
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250

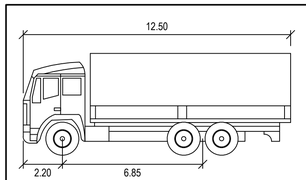


INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



INTERSECTION 5 - LANEWAY ML04 - ROAD MC24
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

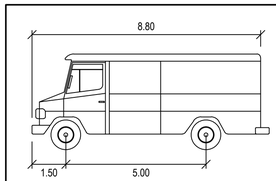
CHECK VEHICLE



SU TRUCK

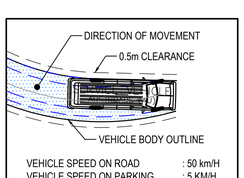
	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7



VEHICLE SPEED ON ROAD : 50 km/h
VEHICLE SPEED ON PARKING : 5 KM/H

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	
Filename:	C-b2c2-416-10006310-nsd-TurningPathsSheet5.dwg		

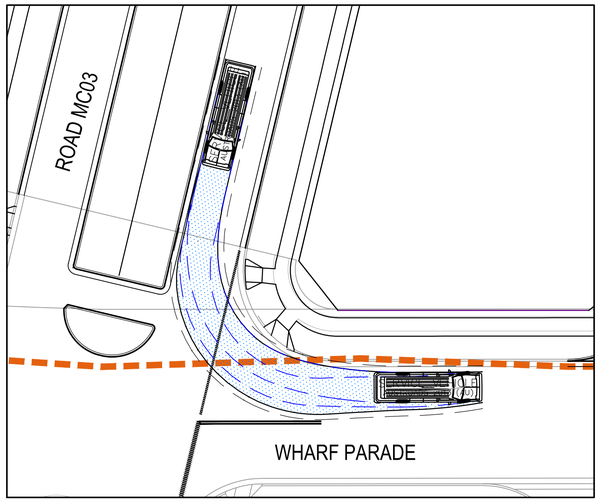
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 5

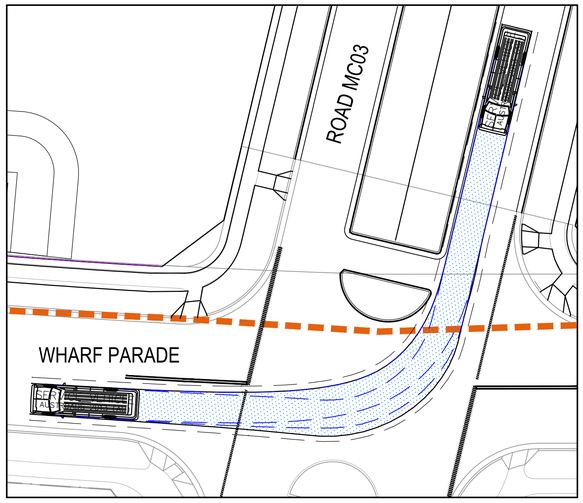
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-416–	10006310	– 05

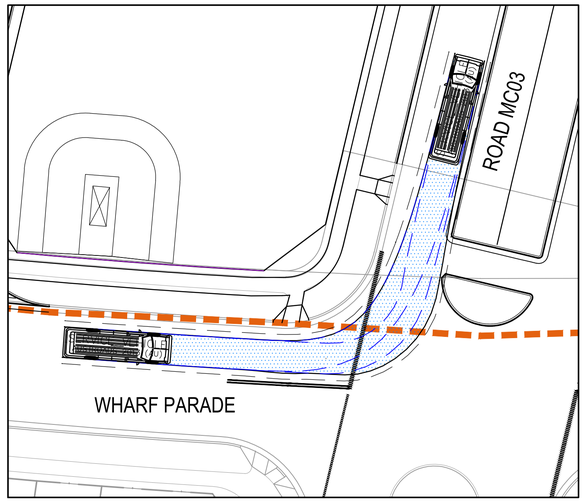
100mm on Original



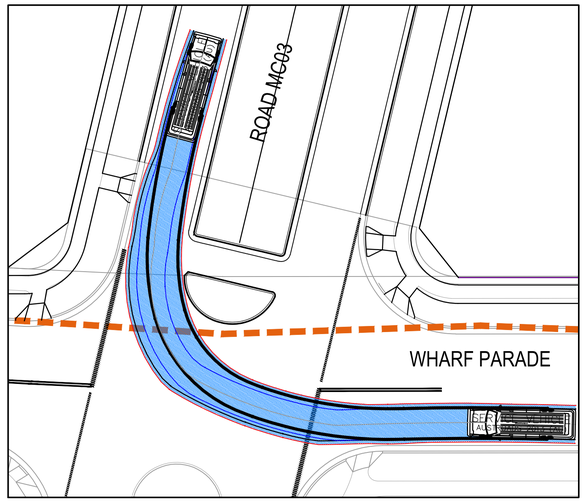
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



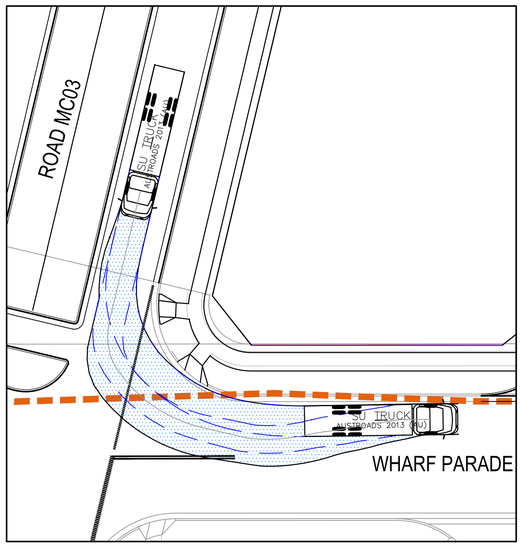
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



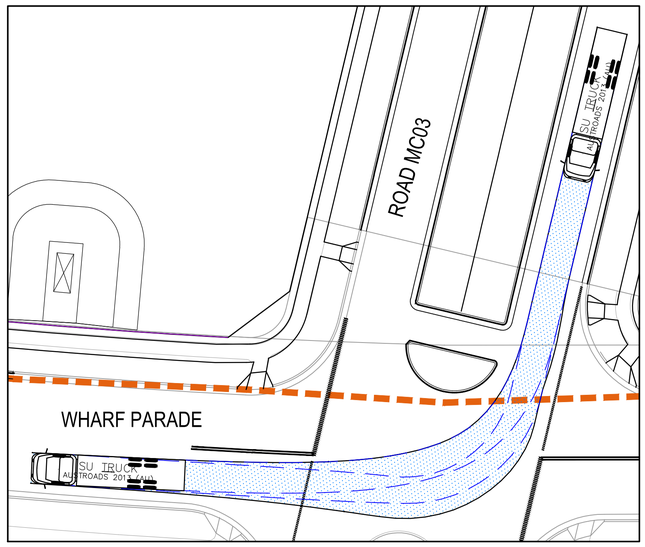
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



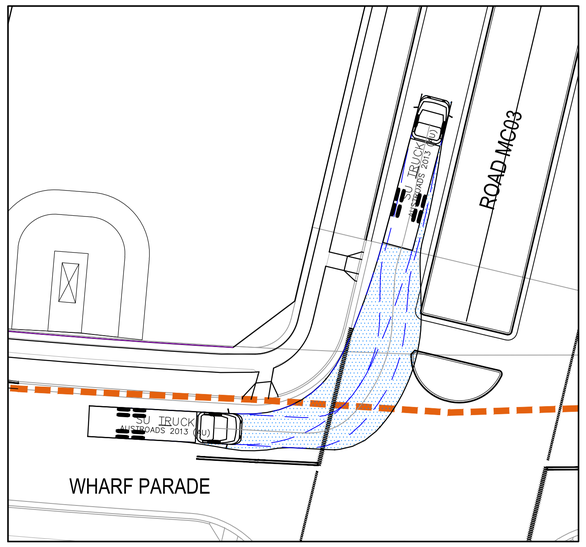
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



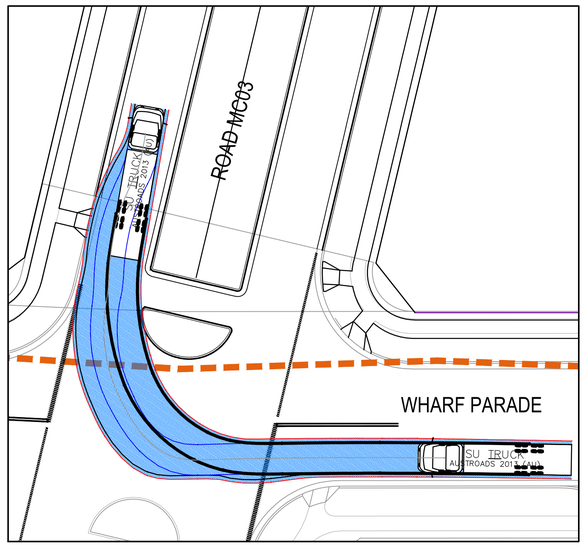
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



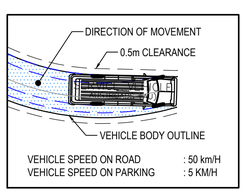
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250



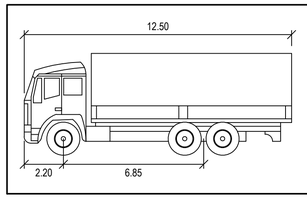
INTERSECTION 6 - ROAD MC03 - WHARF PARADE
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



INTERSECTION 6 - ROAD MC03 - WHARF PARADE
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250



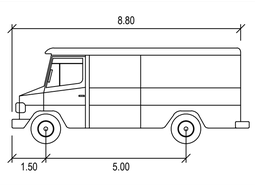
CHECK VEHICLE



SU TRUCK

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	36.6

DESIGN VEHICLE



SERVICE VEHICLE

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	38.7

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
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01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	
Filename:	C-b2c2-417-10006310-nsd-TurningPathsSheet6.dwg		

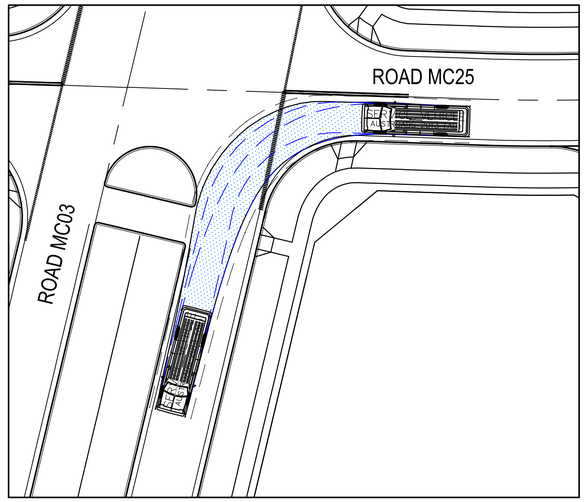
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 6

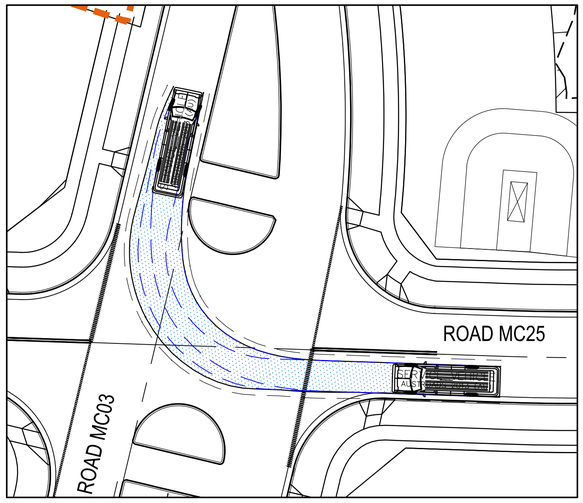
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-417–	10006310	– 05

100mm on Original



INTERSECTION 7 - ROAD MC03 - ROAD MC25
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 7 - ROAD MC03 - ROAD MC25
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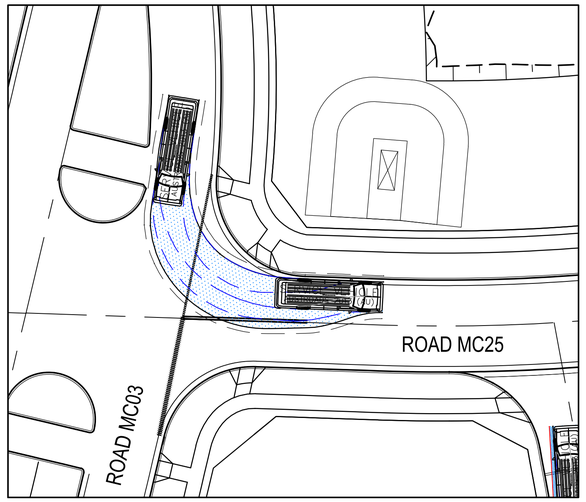
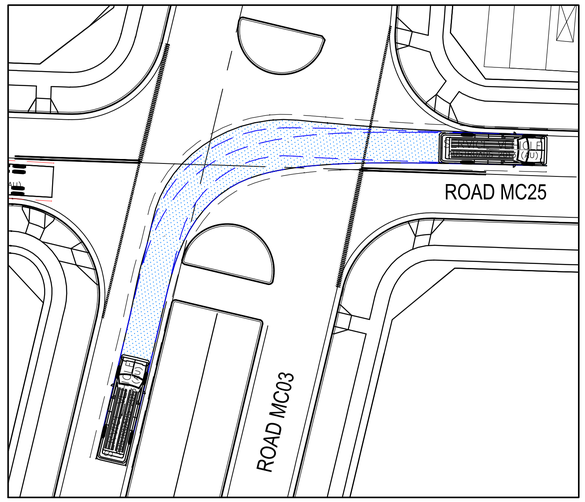
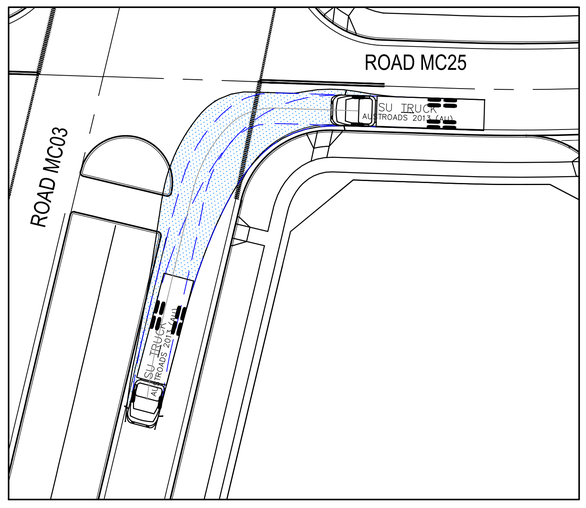


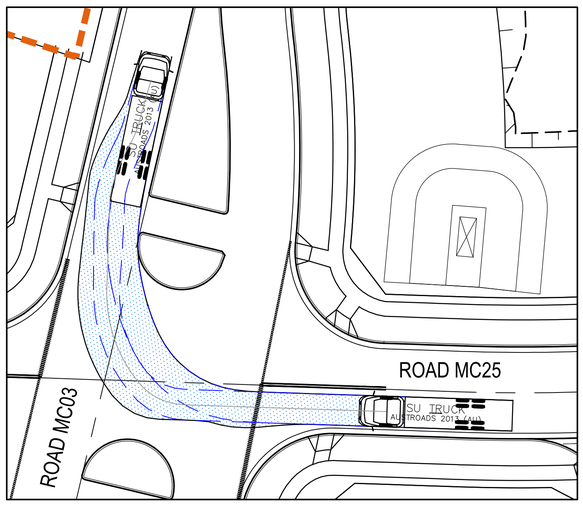
INTERSECTION 7 - ROAD MC03 - ROAD MC25
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



INTERSECTION 7 - ROAD MC03 - ROAD MC25
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



INTERSECTION 7 - ROAD MC03 - ROAD MC25
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



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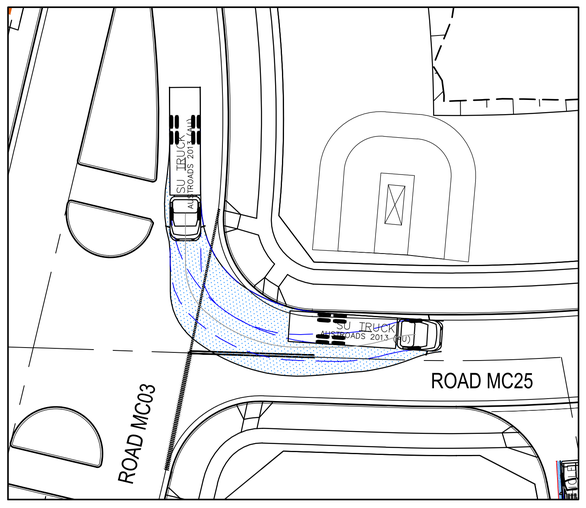
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250



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12.5 SU TRUCK - LEFT IN AT 5 km/h
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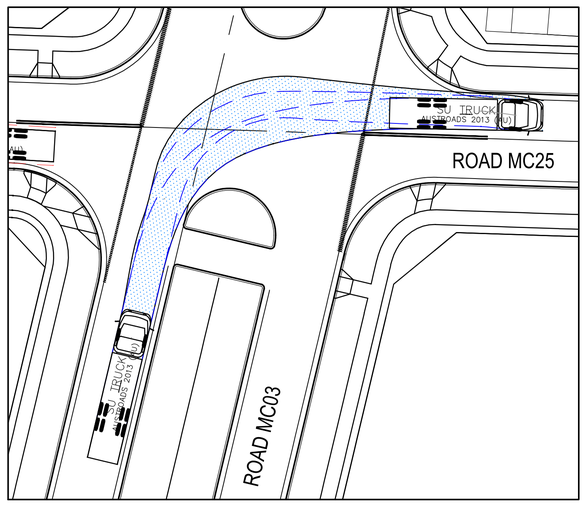
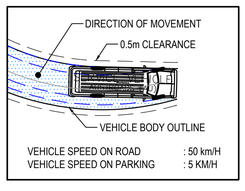
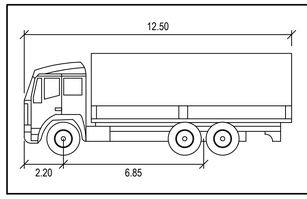


INTERSECTION 7 - ROAD MC03 - ROAD MC25
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



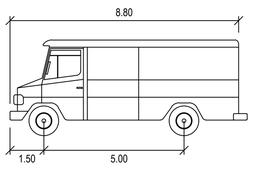
CHECK VEHICLE



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client
FRASERS PROPERTY

Status
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn	A. CARDEÑO
Original Size	A1	Designed	J. WOOD
Height Datum	AHD	Checked	J. HEYDON
Grid	MGA	Approved	J. HEYDON

Filename: C-b2c2-418-10006310-nsd-TurningPathsSheet7.dwg

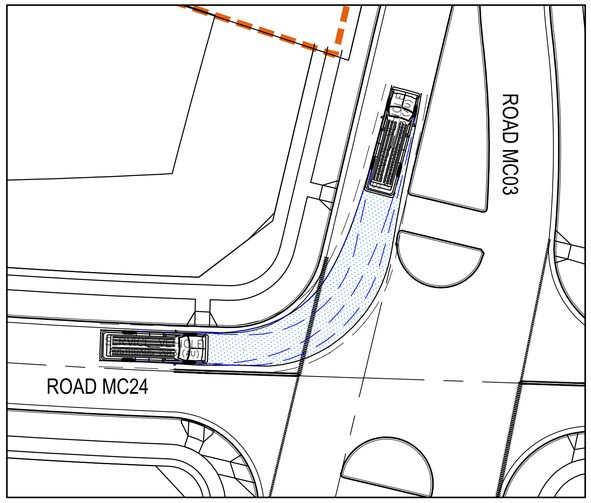
Project
SHELL COVE
PRECINCT B2 AND C2

Title
TURNING PATHS
SHEET 7

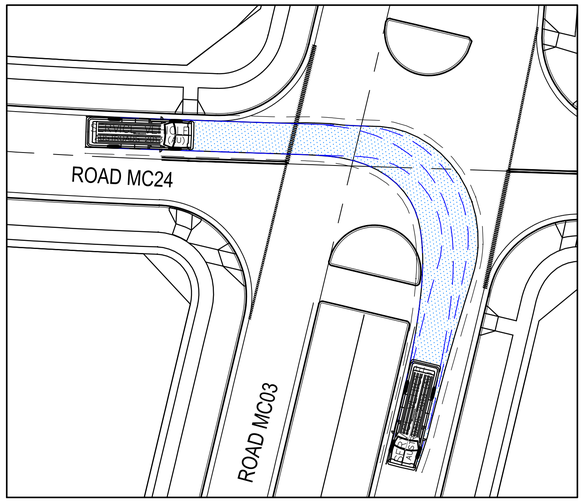
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-418–	10006310	– 05

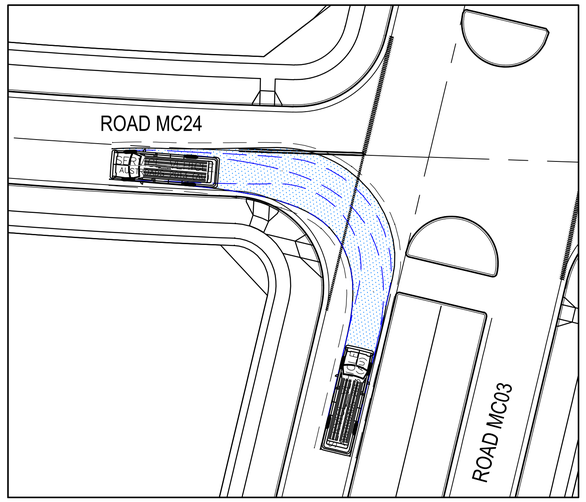
100mm on Original



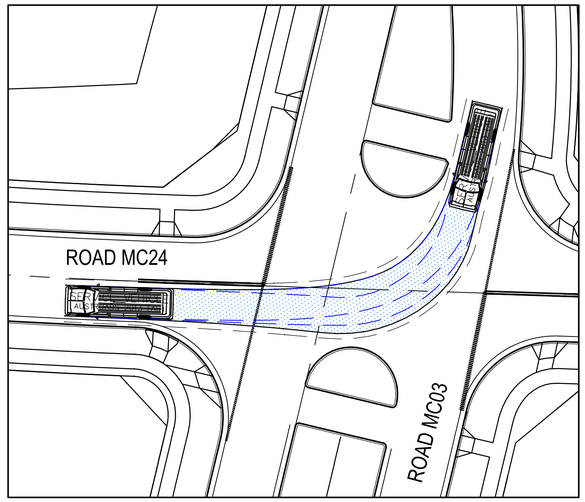
INTERSECTION 7 - ROAD MC24 - ROAD MC03
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



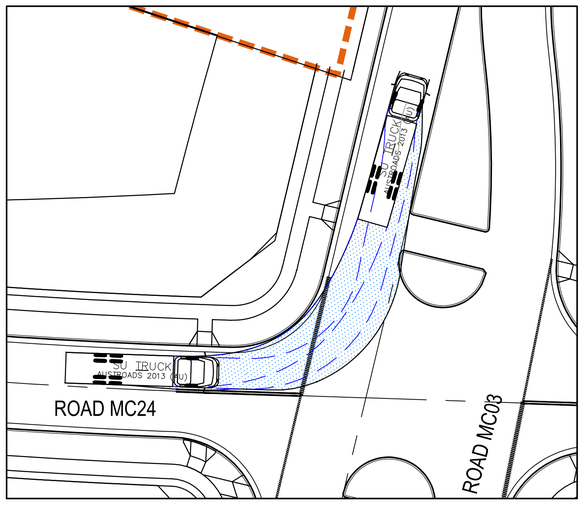
INTERSECTION 7 - ROAD MC24 - ROAD MC03
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



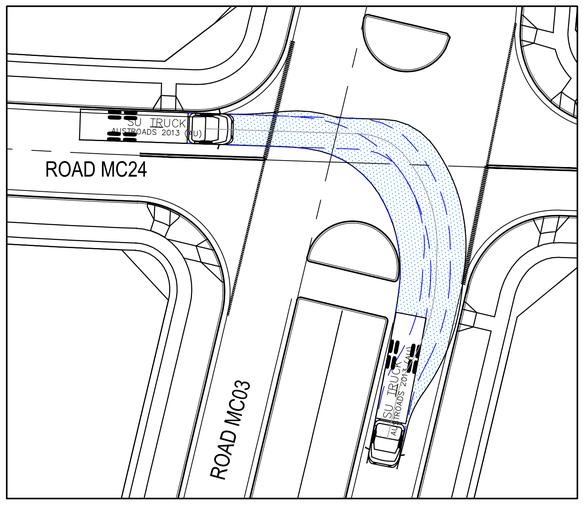
INTERSECTION 7 - ROAD MC24 - ROAD MC03
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



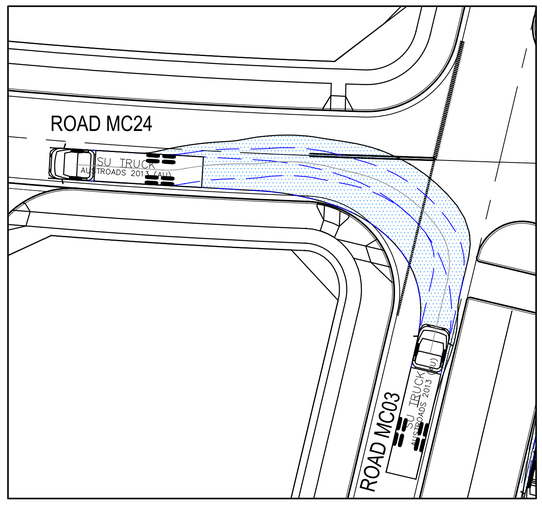
INTERSECTION 7 - ROAD MC24 - ROAD MC03
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



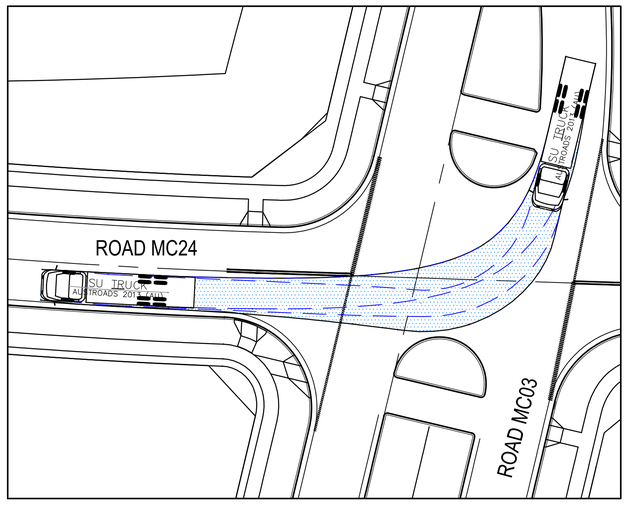
INTERSECTION 7 - ROAD MC24 - ROAD MC03
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 7 - ROAD MC24 - MC03
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 7 - ROAD MC24 - ROAD MC03
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



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12.5 SU TRUCK - RIGHT IN AT 5 km/h
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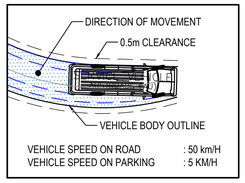
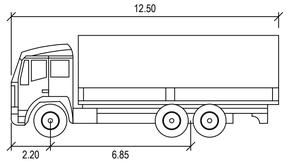
NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

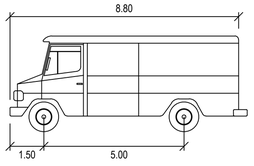
CHECK VEHICLE



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7

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0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
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Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-419-10006310-nsd-TurningPathsSheet8.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 8

ARCADIS
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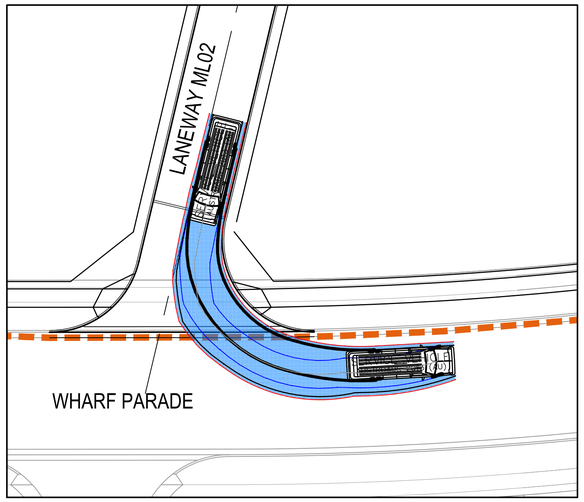
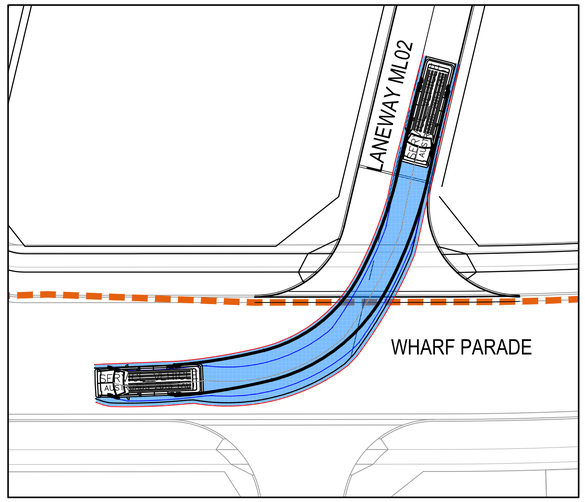
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-419–	10006310	– 05

100mm on Original



INTERSECTION 8 - LANEWAY ML02 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



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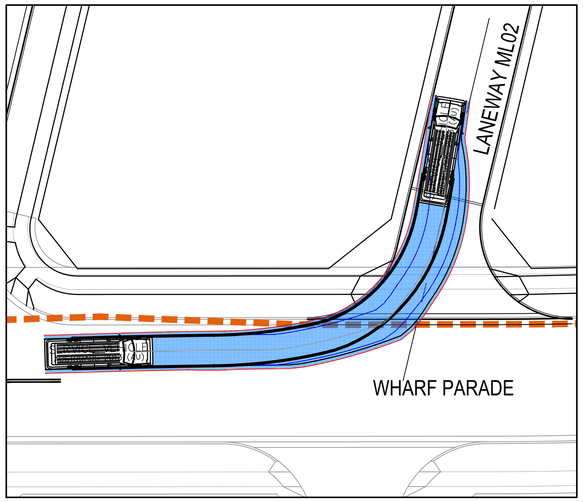

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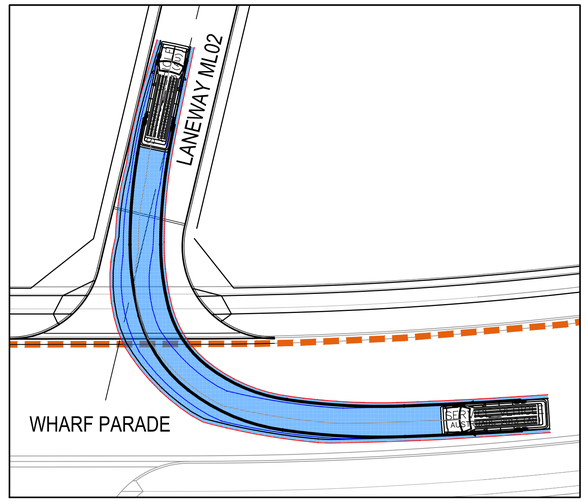

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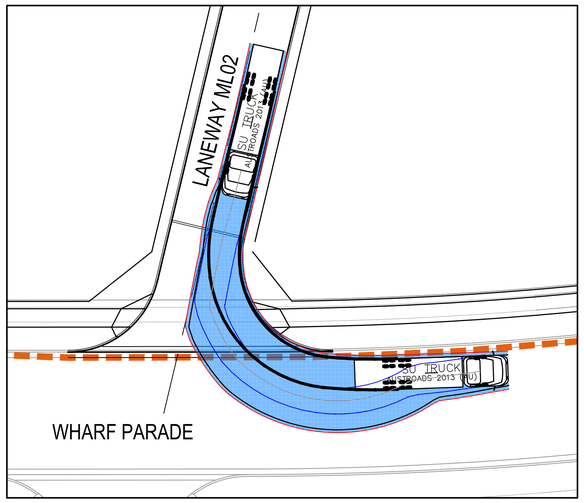

INTERSECTION 8 - LANEWAY ML02 - WHARF PARADE
12.5 SU TRUCK - LEFT OUT AT 5 km/h
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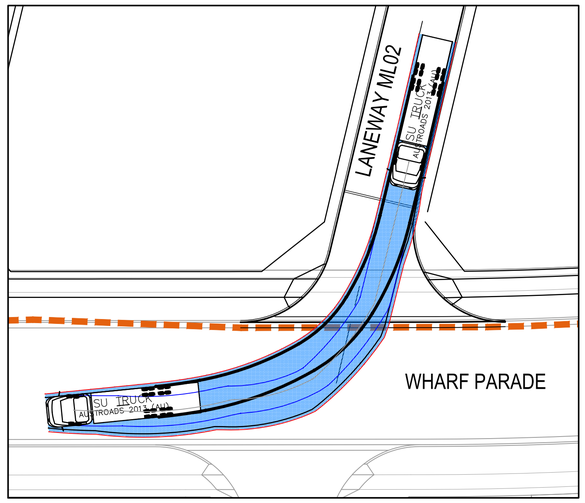

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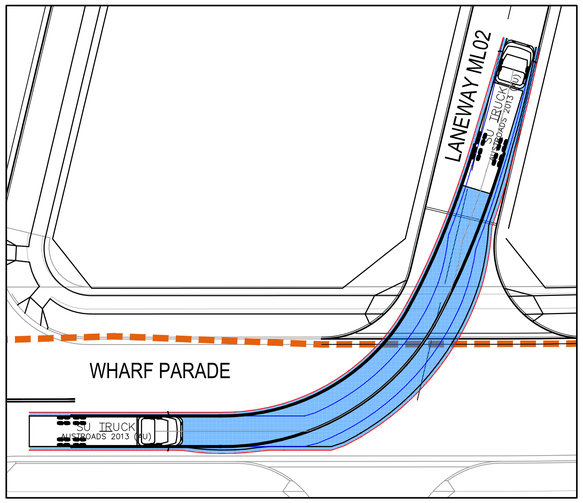

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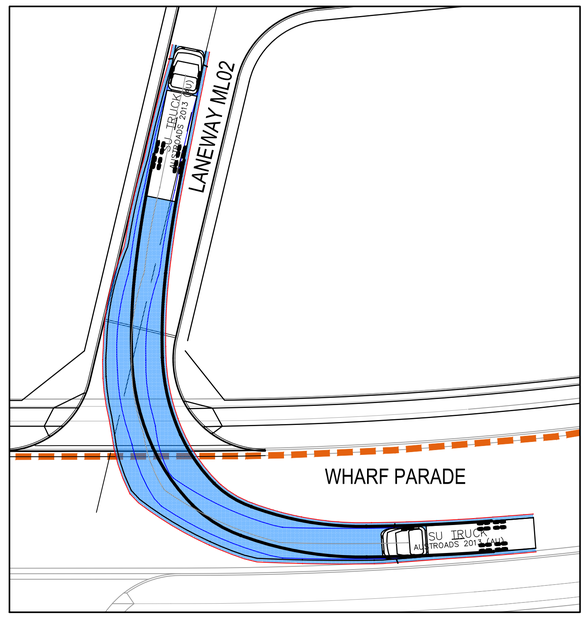

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NOTE
REFER TO DRAWING
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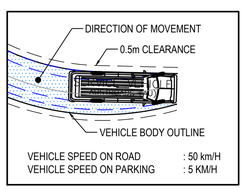
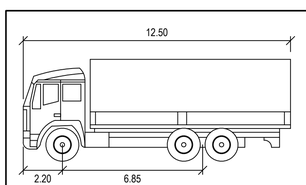
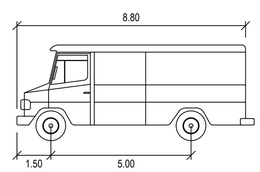




SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6



SERVICE VEHICLE

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
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100mm on Original

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Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-420-10006310-nsd-TurningPathsSheet9.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 9

ARCADIS
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ABN 76 104 485 289
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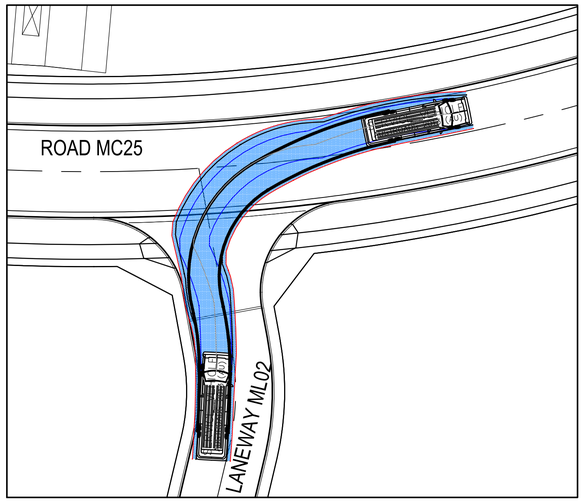
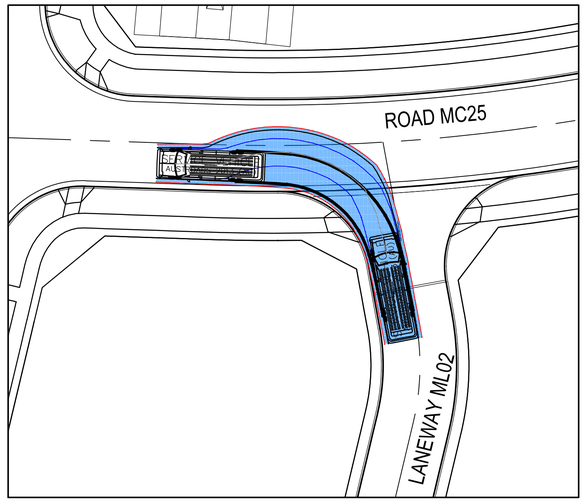
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-420–	10006310	– 04

Date Plotted: 25 Oct 2019 - 02:21PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-420-10006310-nsd-TurningPathsSheet9.dwg V1



INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



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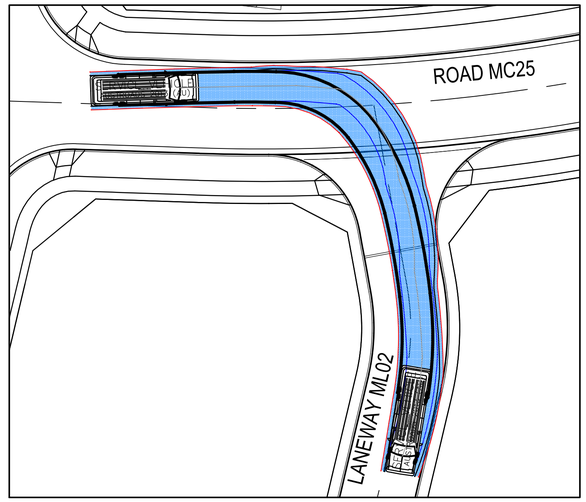
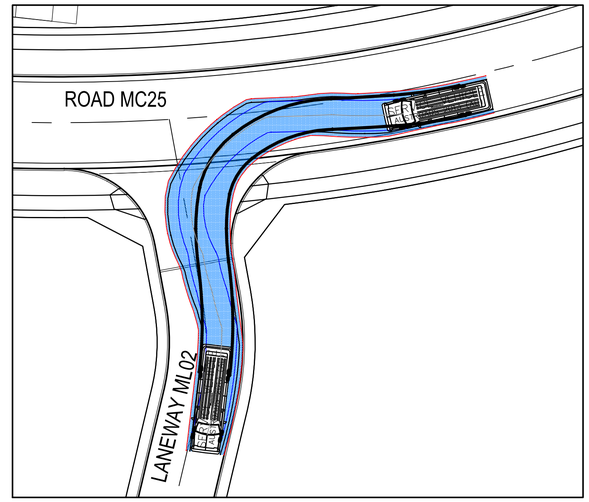
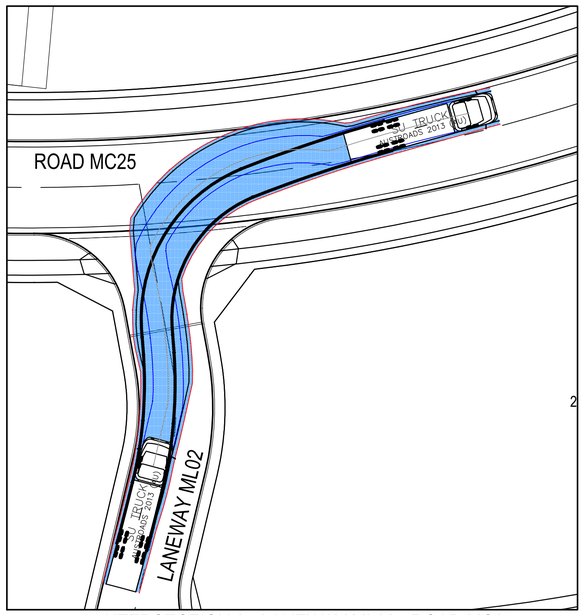
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



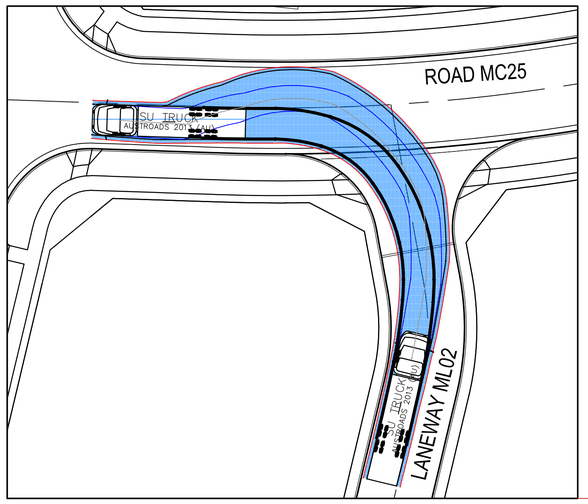
INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



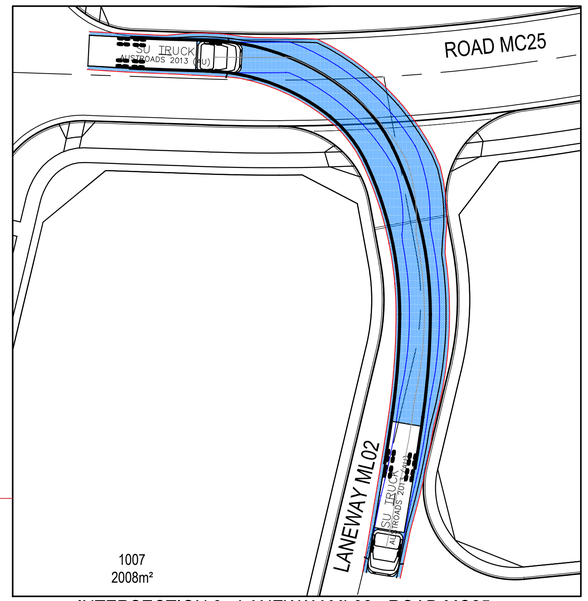
INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



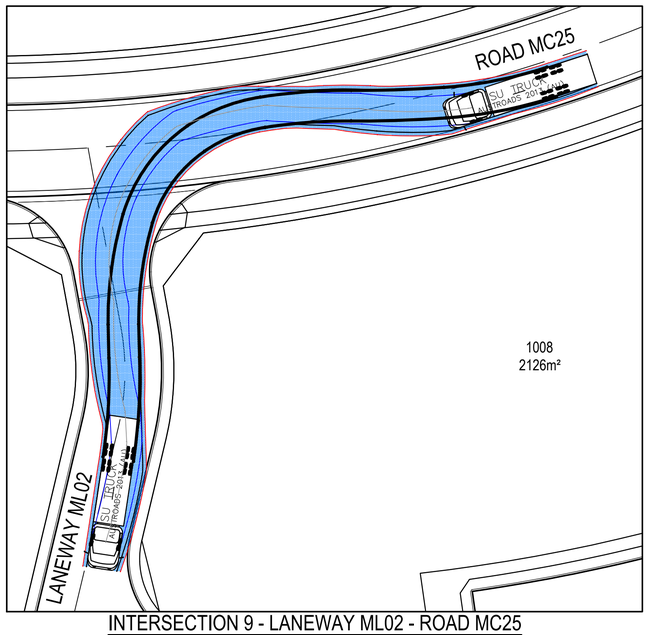
INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
12.5 SU TRUCK -RIGHT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250

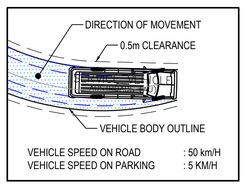


INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

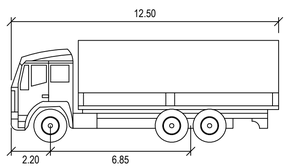


INTERSECTION 9 - LANEWAY ML02 - ROAD MC25
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



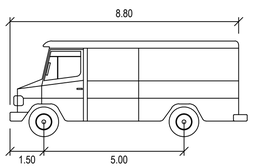
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
		Approved J. HEYDON	

Filename: C-b2c2-421-10006310-nsd-TurningPathsSheet10.dwg

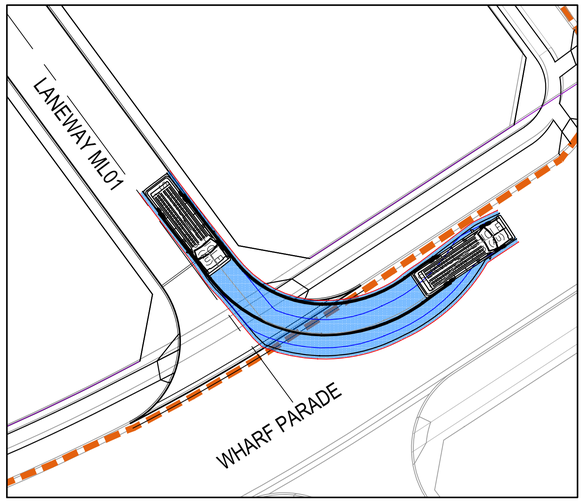
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 10

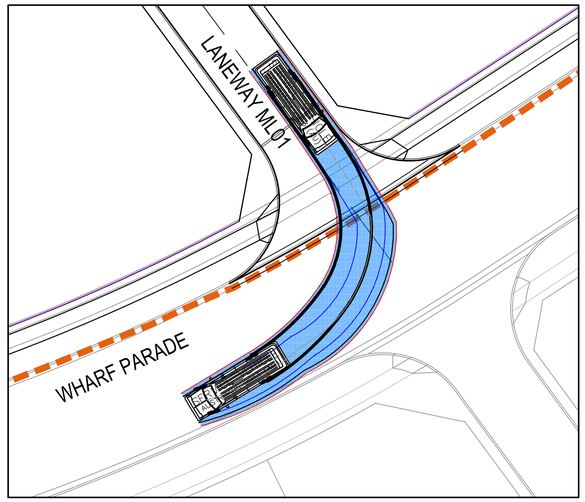
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-421–	10006310	– 05

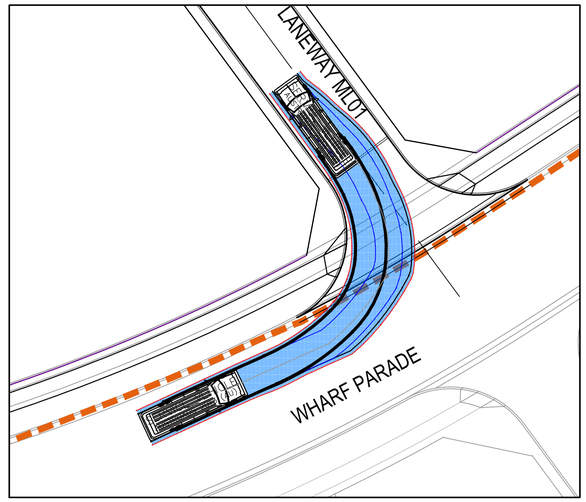
100mm on Original



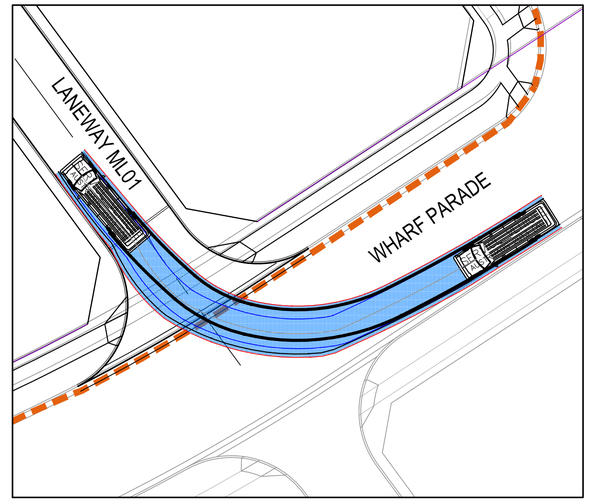
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



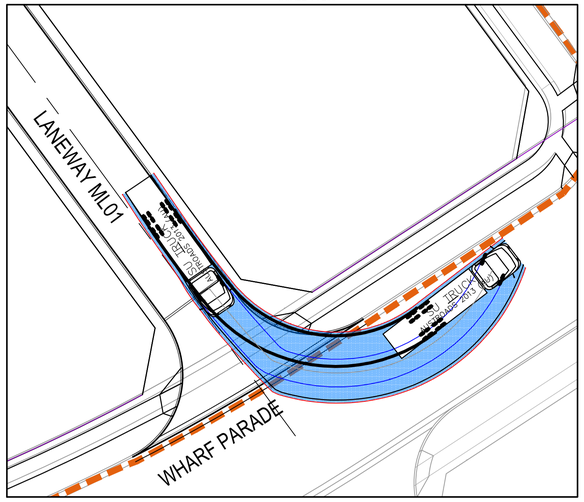
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



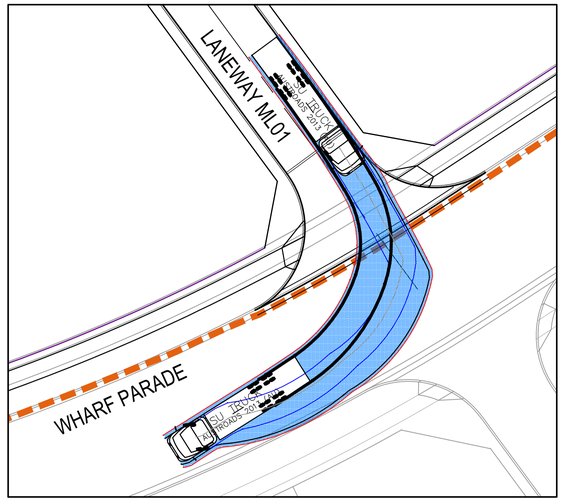
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



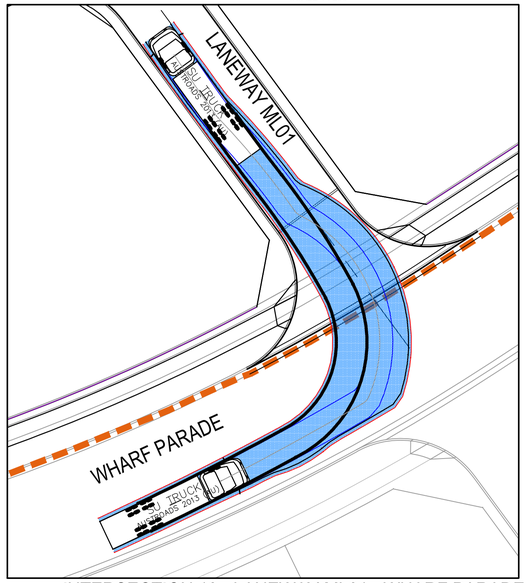
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



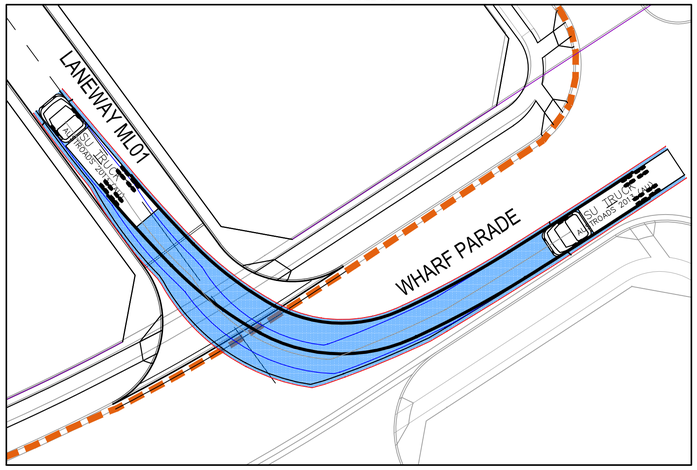
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250

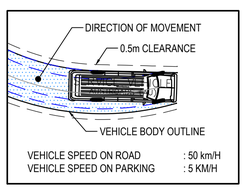


INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



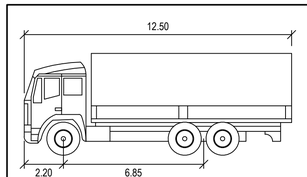
INTERSECTION 10 - LANEWAY ML01 - WHARF PARADE
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

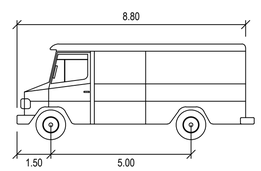
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-422-10006310-nsd-TurningPathsSheet11.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

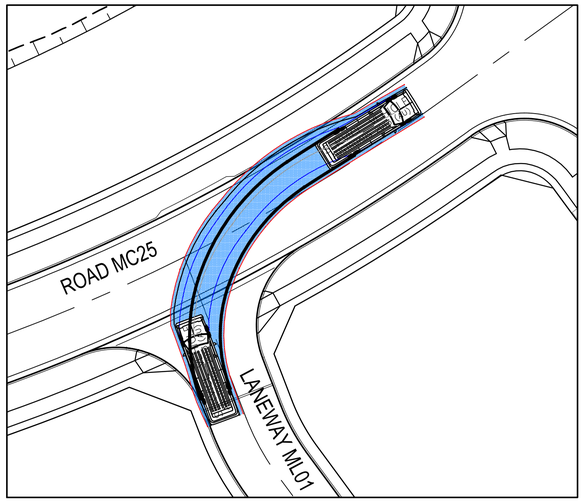
Title: TURNING PATHS
SHEET 11

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

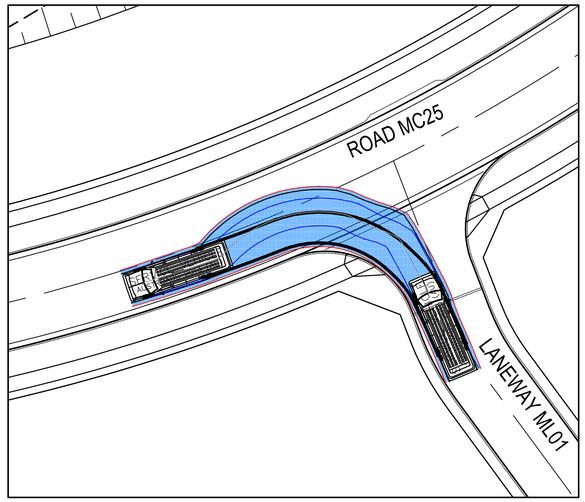
Drawing No.	Project No.	Issue
C-B2C2-422–	10006310	– 05

100mm on Original

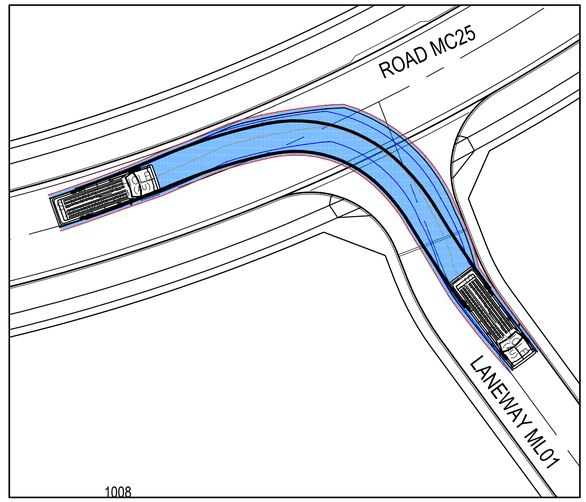
Date Plotted: 4 Nov 2019 - 05:02PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-422-10006310-nsd-TurningPathsSheet11.dwg V1



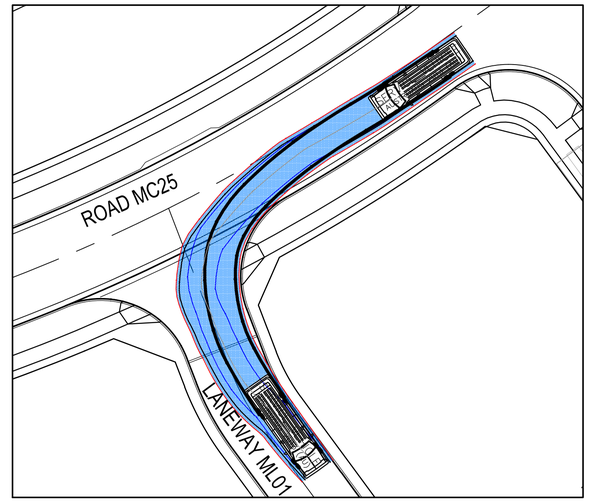
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



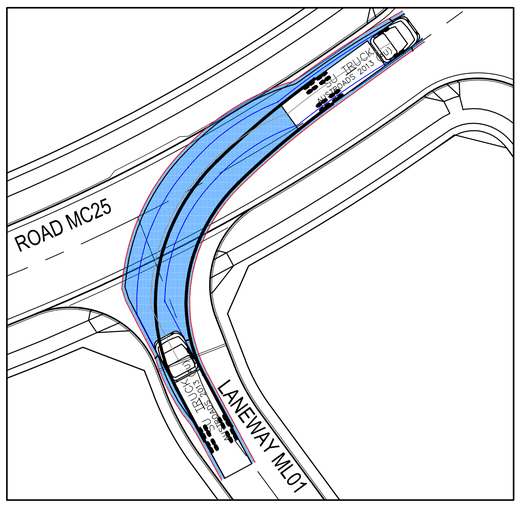
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



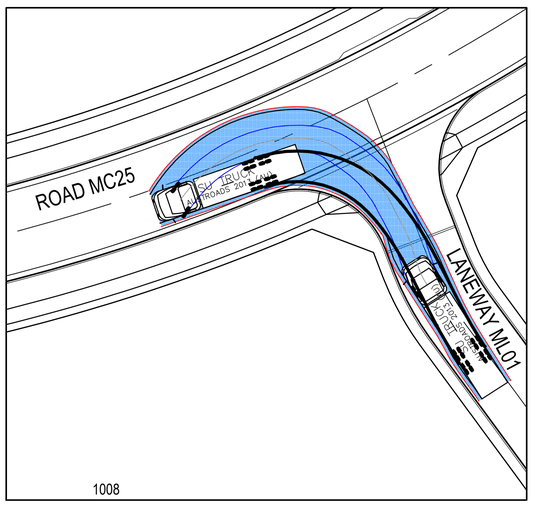
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



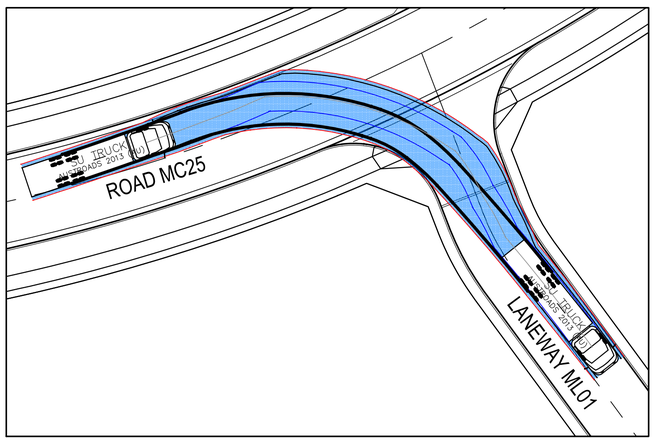
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



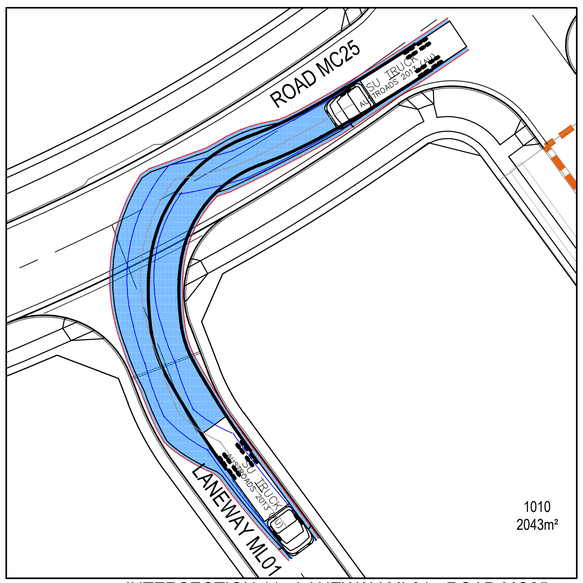
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250

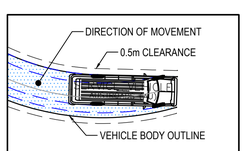


INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250



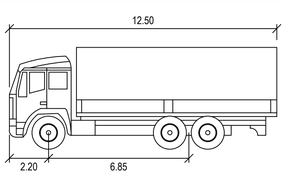
INTERSECTION 11 - LANEWAY ML01 - ROAD MC25
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

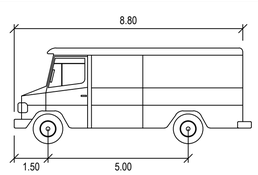
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	
Filename:	C-b2c2-423-10006310-nsd-TurningPathsSheet12.dwg		

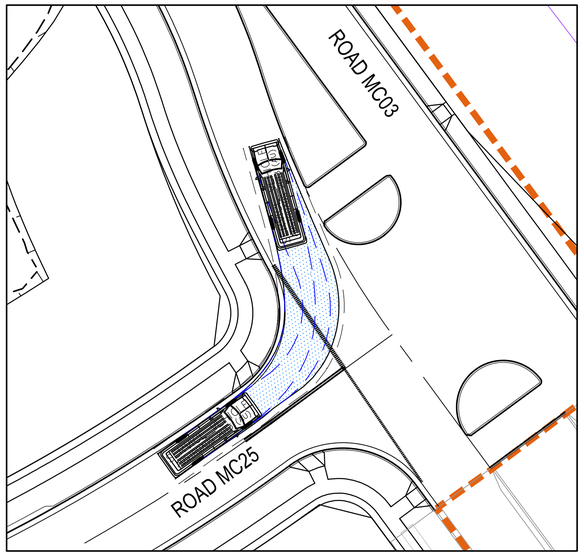
Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 12

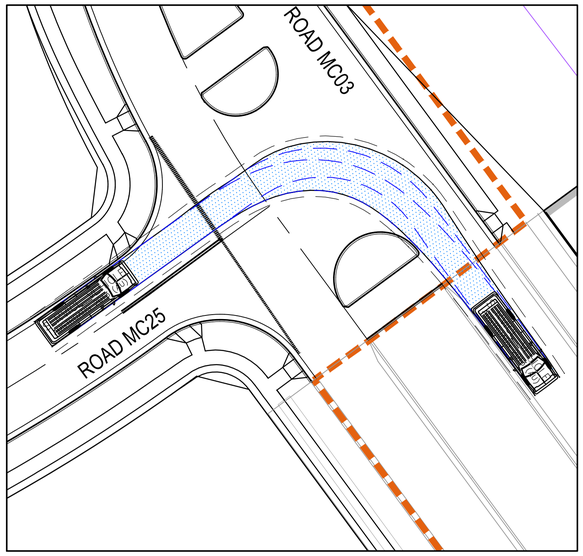
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-423–	10006310	– 05

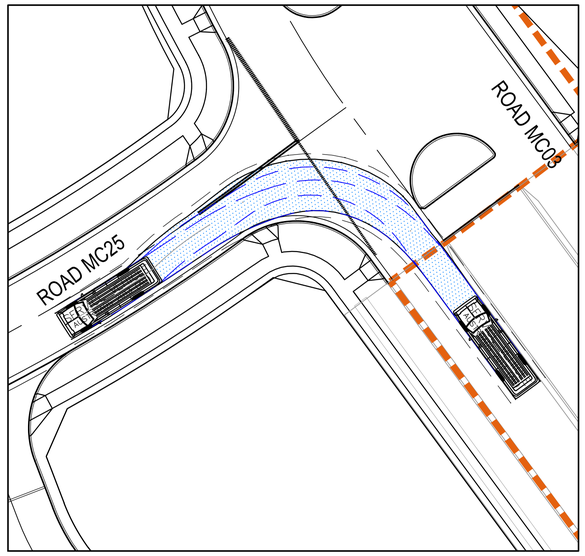
100mm on Original



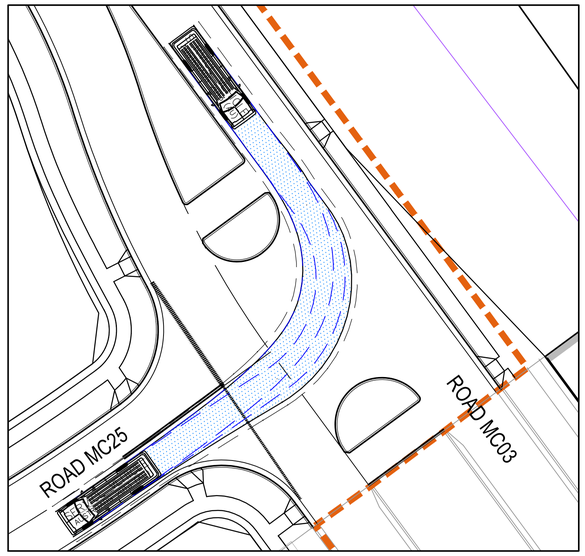
INTERSECTION 12 - ROAD MC25 - ROAD MC03
8.8 SERVICE VEHICLE - LEFT OUT AT 5 km/h
SCALE 1 : 250



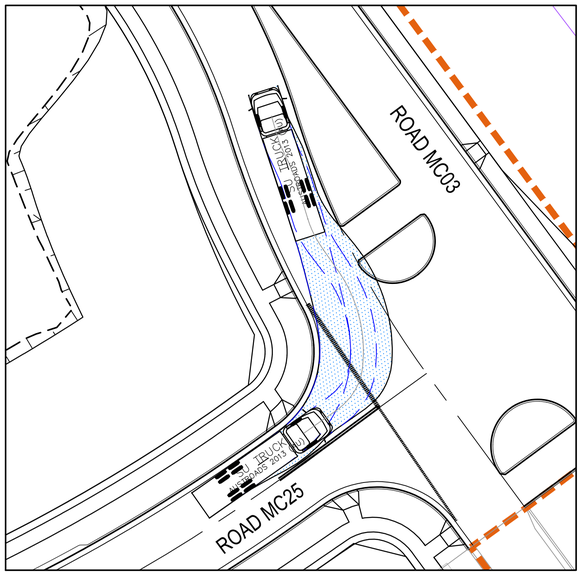
INTERSECTION 12 - ROAD MC25 - ROAD MC03
8.8 SERVICE VEHICLE - RIGHT OUT AT 5 km/h
SCALE 1 : 250



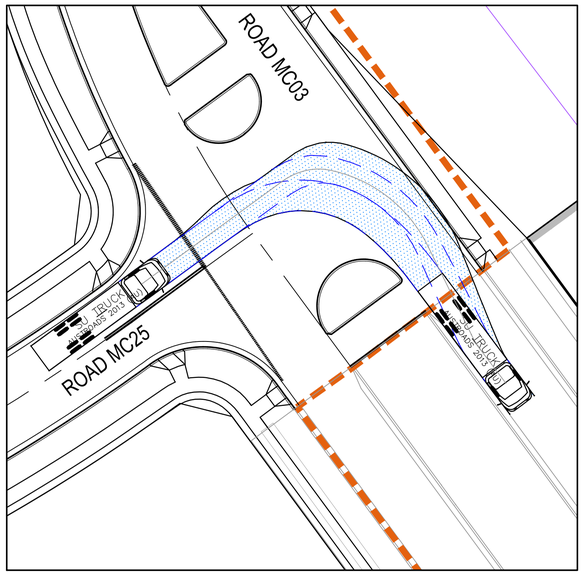
INTERSECTION 12 - ROAD MC25 - ROAD MC03
8.8 SERVICE VEHICLE - LEFT IN AT 5 km/h
SCALE 1 : 250



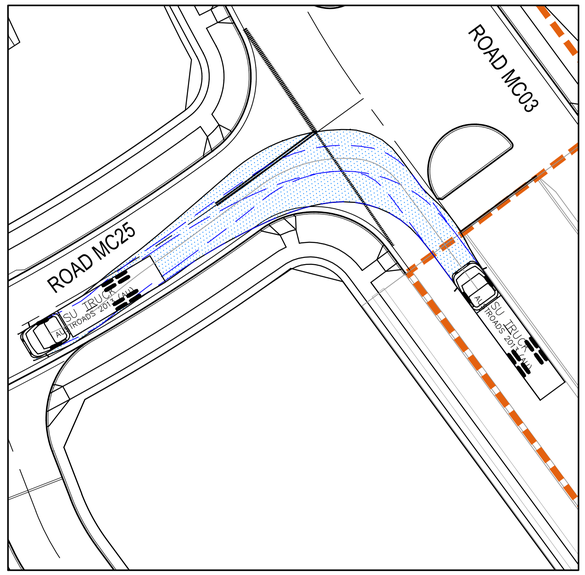
INTERSECTION 12 - ROAD MC25 - ROAD MC03
8.8 SERVICE VEHICLE - RIGHT IN AT 5 km/h
SCALE 1 : 250



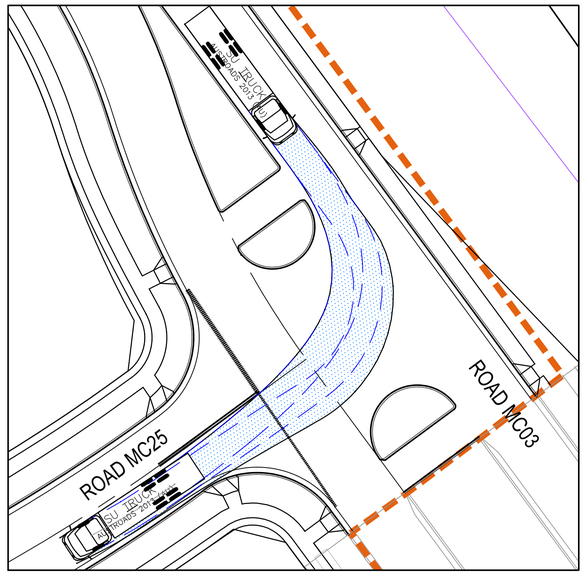
INTERSECTION 12 - ROAD MC25 - ROAD MC03
12.5 SU TRUCK - LEFT OUT AT 5 km/h
SCALE 1 : 250



INTERSECTION 12 - ROAD MC25 - ROAD MC03
12.5 SU TRUCK - RIGHT OUT AT 5 km/h
SCALE 1 : 250

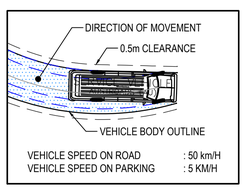


INTERSECTION 12 - ROAD MC25 - ROAD MC03
12.5 SU TRUCK - LEFT IN AT 5 km/h
SCALE 1 : 250



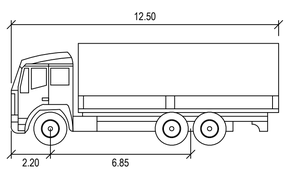
INTERSECTION 12 - ROAD MC25 - ROAD MC03
12.5 SU TRUCK - RIGHT IN AT 5 km/h
SCALE 1 : 250

NOTE
REFER TO DRAWING
C-B2C2-411 FOR LAYOUT PLAN.



VEHICLE SPEED ON ROAD : 50 km/H
VEHICLE SPEED ON PARKING : 5 KM/H

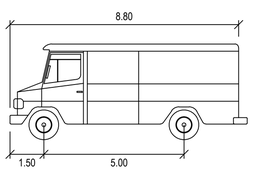
CHECK VEHICLE



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

DESIGN VEHICLE



SERVICE VEHICLE

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	38.7

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-424-10006310-nsd-TurningPathsSheet13.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: TURNING PATHS
SHEET 13

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-424	10006310	05

NOTE

REFER TO DRAWINGS C-B2C2-412 TO C-B2C2-417 FOR INTERSECTION TURNING PATHS.

EXISTING MARINA

EXISTING HARBOUR

EXISTING TOWN CENTRE

ROAD MC03

ROAD MC24

ROAD MC25

ROAD MC24

LANEWAY ML05

LANEWAY ML04

ROAD MC03

LANEWAY ML02

LANEWAY ML01

LANEWAY ML03

WHARF PARADE

WHARF PARADE

INTERSECTION 1

INTERSECTION 2

INTERSECTION 4

INTERSECTION 5

INTERSECTION 6

INTERSECTION 7

INTERSECTION 8

INTERSECTION 9

INTERSECTION 10

INTERSECTION 11

INTERSECTION 12

1001
5755m²

1002
3482m²

1004
3420m²

1005
3110m²

1006
2061m²

1007
2008m²

1008
2126m²

1009
2888m²

1010
2043m²

PRECINCT A

EXISTING PRECINCT B1&C1

EXISTING PRECINCT B1&C1

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
Original Size	A1	Drawn A. CARDEÑO	
Height Datum	AHD	Designed J. WOOD	
Grid	MGA	Checked J. HEYDON	
Filename: C-b2c2-431-10006310-nsd-SightDistanceLayoutPlan.dwg		Approved J. HEYDON	

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE
LAYOUT PLAN

ARCADIS
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ABN 76 104 485 289

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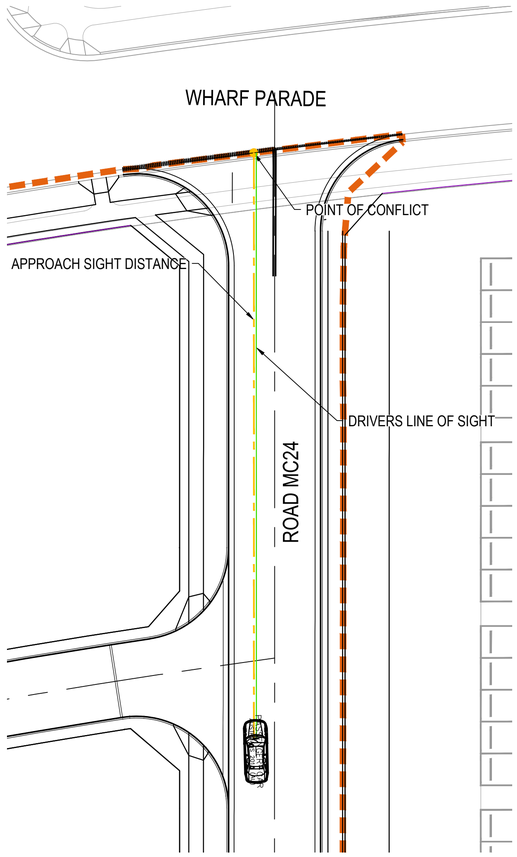
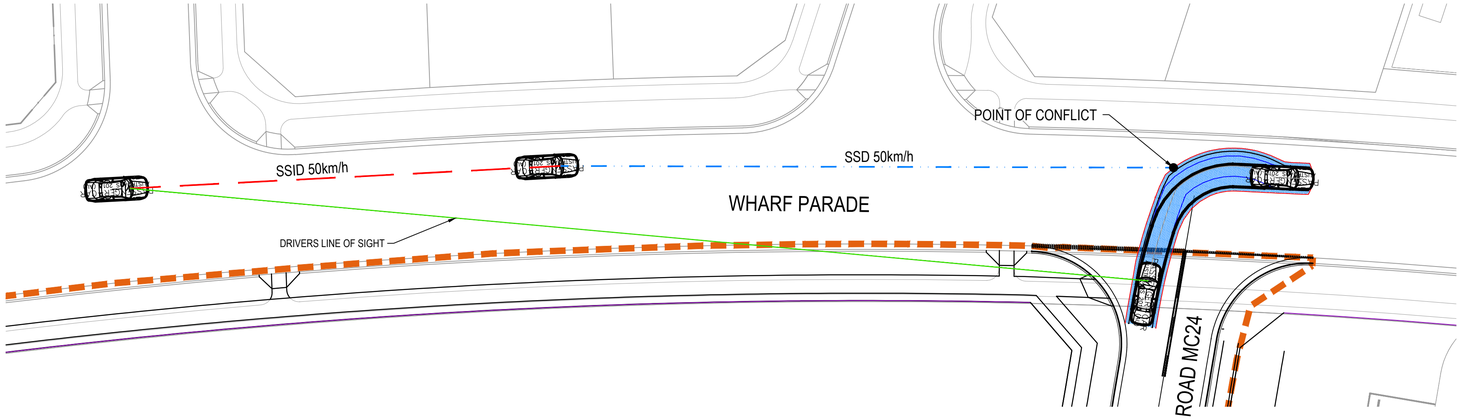
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-431	10006310	05

Date Plotted: 4 Nov 2019 - 05:06PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-431-10006310-nsd-SightDistanceLayoutPlan.dwg V1



ROAD MC24 - WHARF PARADE
INTERSECTION 1 APPROACH SIGHT DISTANCE
SCALE 1 : 250



ROAD MC24 - WHARF PARADE
INTERSECTION 1 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client
FRASERS PROPERTY

Status
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-432-10006310-nsd-SightDistancePlansSheet1.dwg

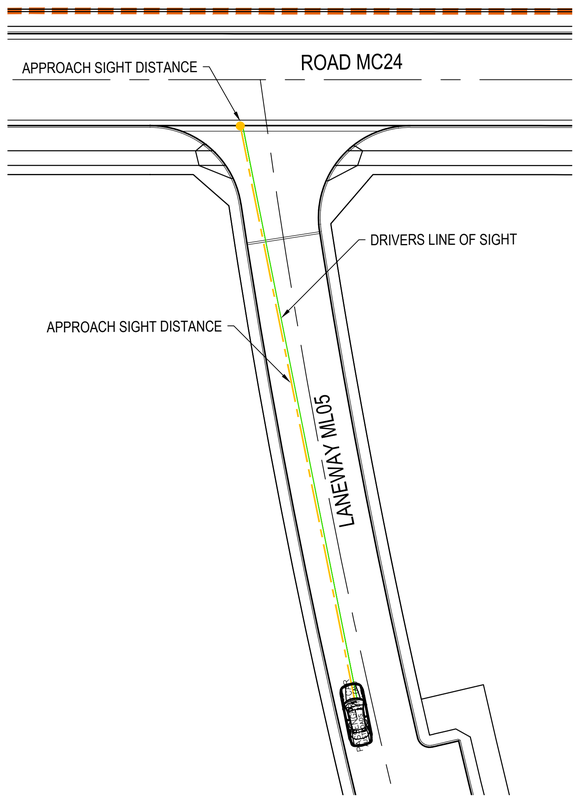
Project
SHELL COVE
PRECINCT B2 AND C2

Title
SIGHT DISTANCE PLANS
SHEET 1

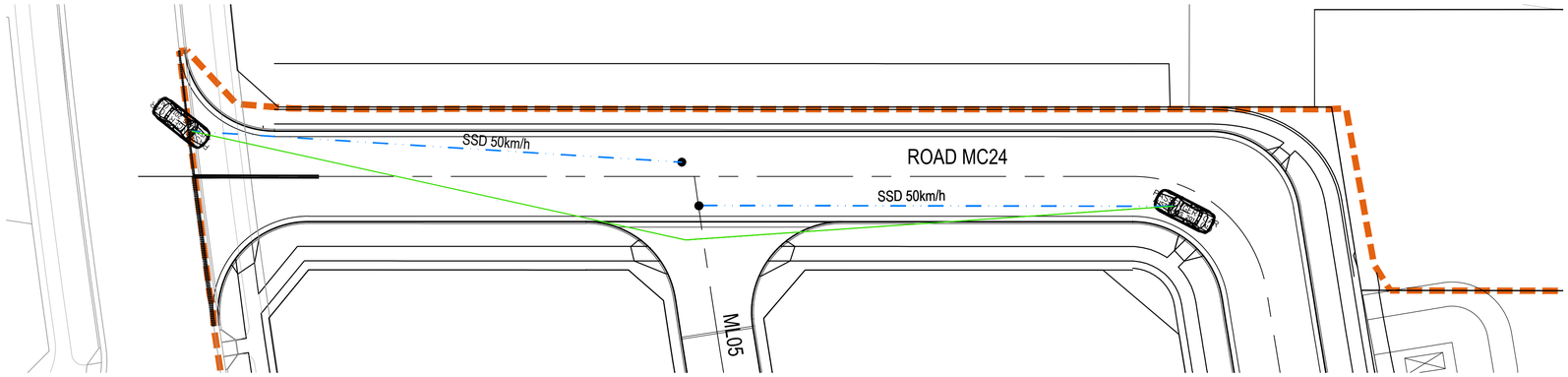
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-432–	10006310	– 05

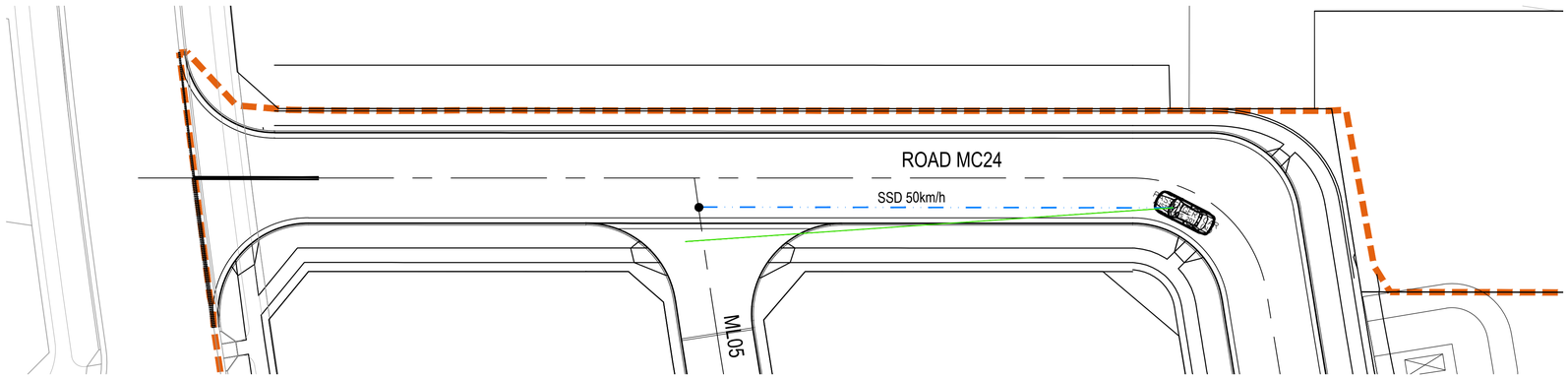
100mm on Original



LANEWAY ML05 - ROAD MC24
INTERSECTION 2 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML05 - ROAD MC24
INTERSECTION 2 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML05 - ROAD MC24
INTERSECTION 2 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client
FRASERS PROPERTY

Status
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-433-10006310-nsd-SightDistancePlansSheet2.dwg

Project
SHELL COVE
PRECINCT B2 AND C2

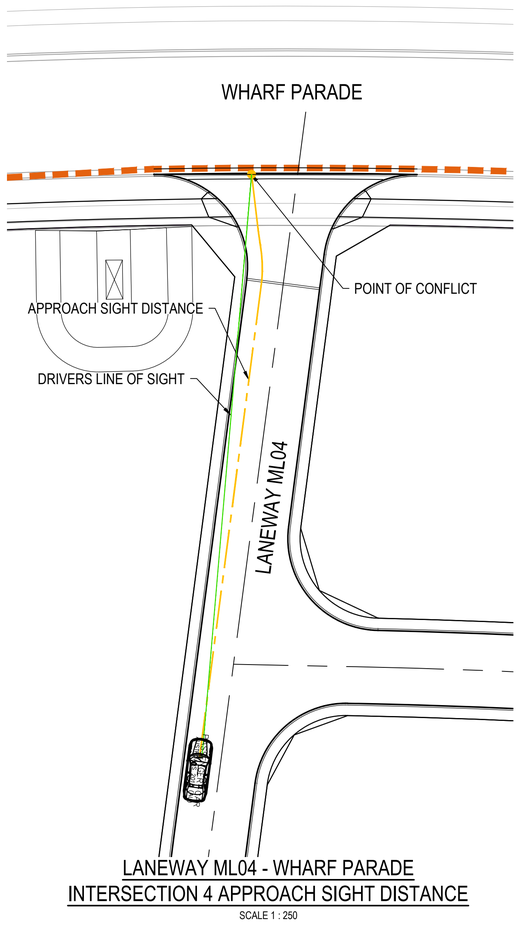
Title
SIGHT DISTANCE PLANS
SHEET 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

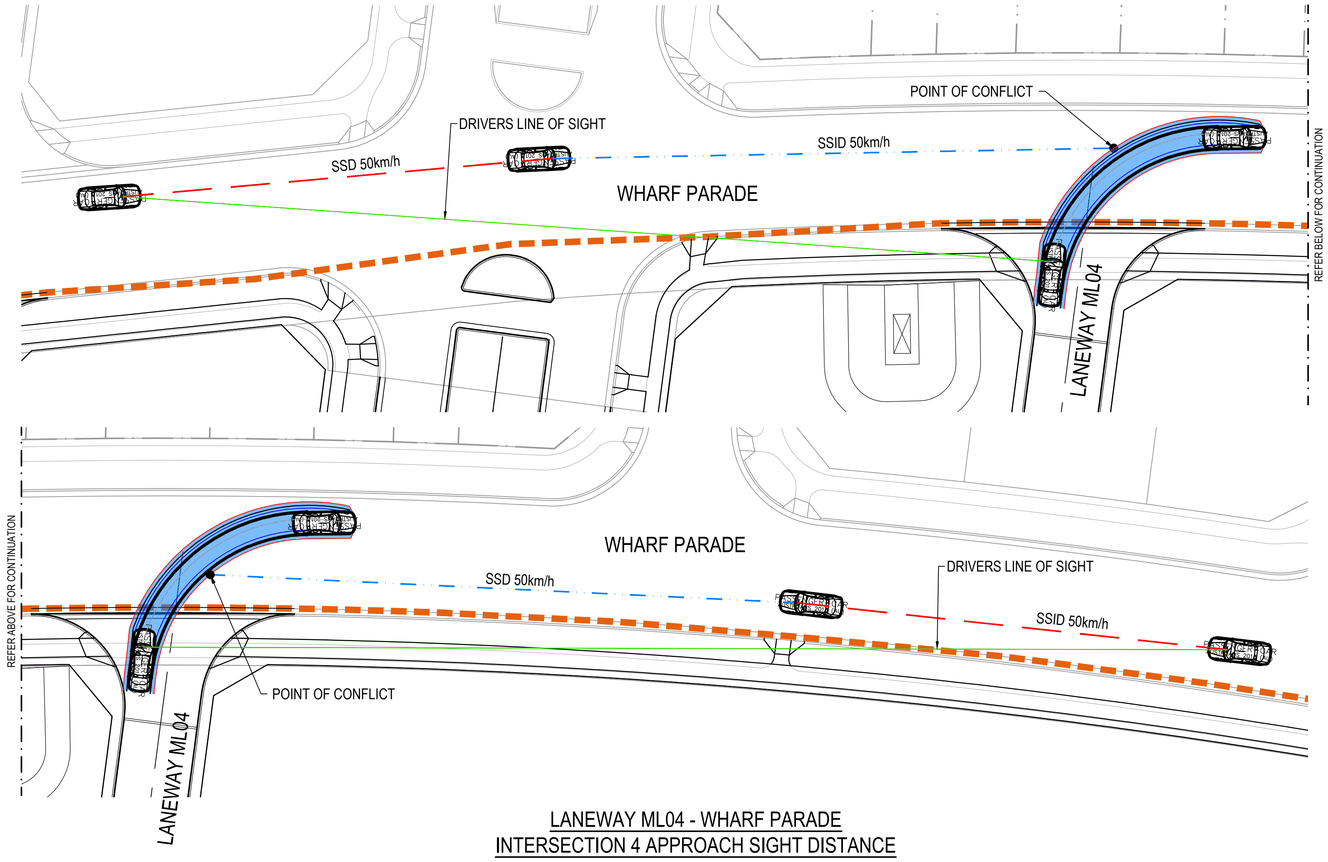
Drawing No.	Project No.	Issue
C-B2C2-433–	10006310	– 05

100mm on Original

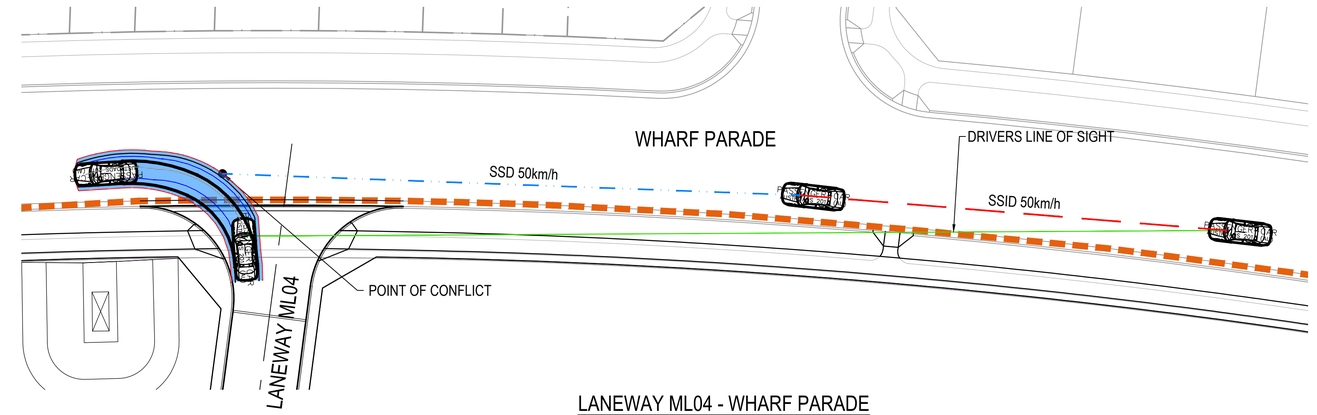
Date Plotted: 4 Nov 2019 - 05:07PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DAIc-b2c2-433-10006310-nsd-SightDistancePlansSheet2.dwg V1



LANEWAY ML04 - WHARF PARADE
INTERSECTION 4 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML04 - WHARF PARADE
INTERSECTION 4 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML04 - WHARF PARADE
INTERSECTION 4 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-434-10006310-nsd-SightDistancePlansSheet3.dwg

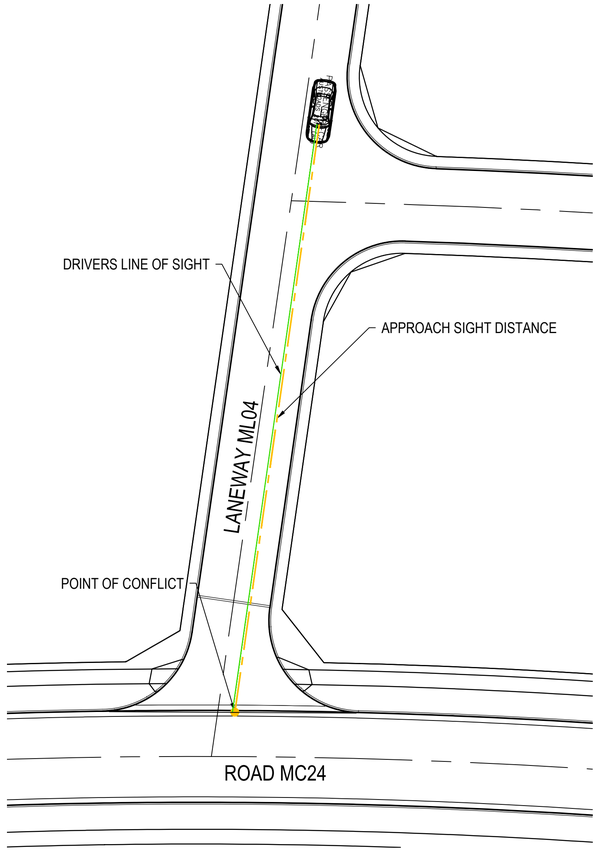
Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 3

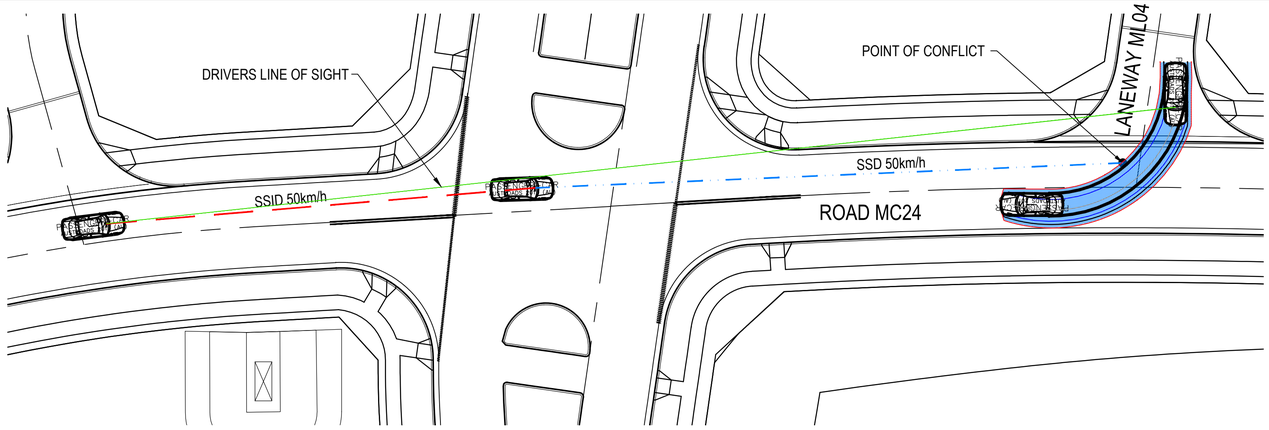
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-434	10006310	05

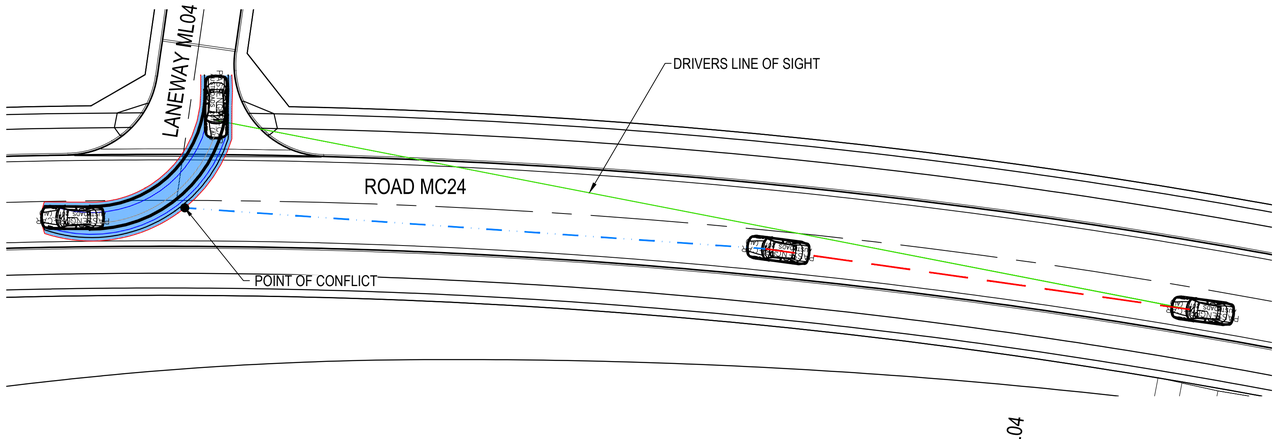
Date Plotted: 4 Nov 2019 - 05:07PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-434-10006310-nsd-SightDistancePlansSheet3.dwg V1

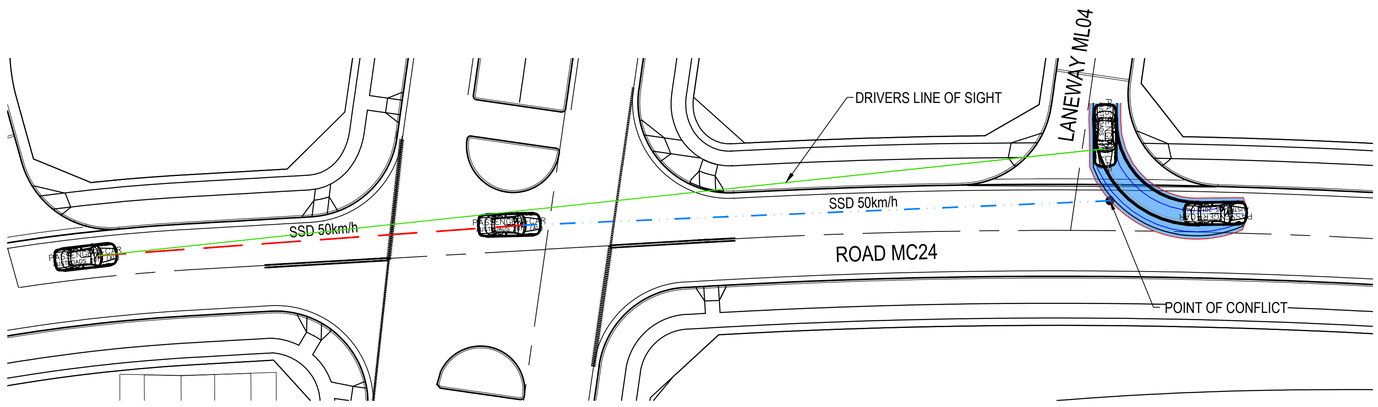


LANEWAY ML04 - ROAD MC24
INTERSECTION 5 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML04 - ROAD MC24
INTERSECTION 5 APPROACH SIGHT DISTANCE
SCALE 1 : 250





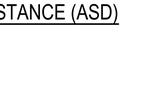
LANEWAY ML04 - ROAD MC24
INTERSECTION 5 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-435-10006310-nsd-SightDistancePlansSheet4.dwg

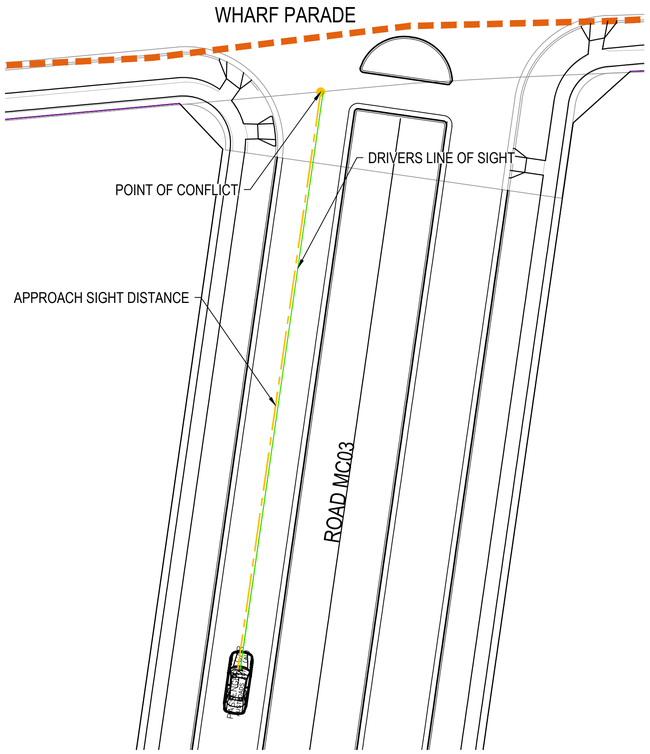
Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 4

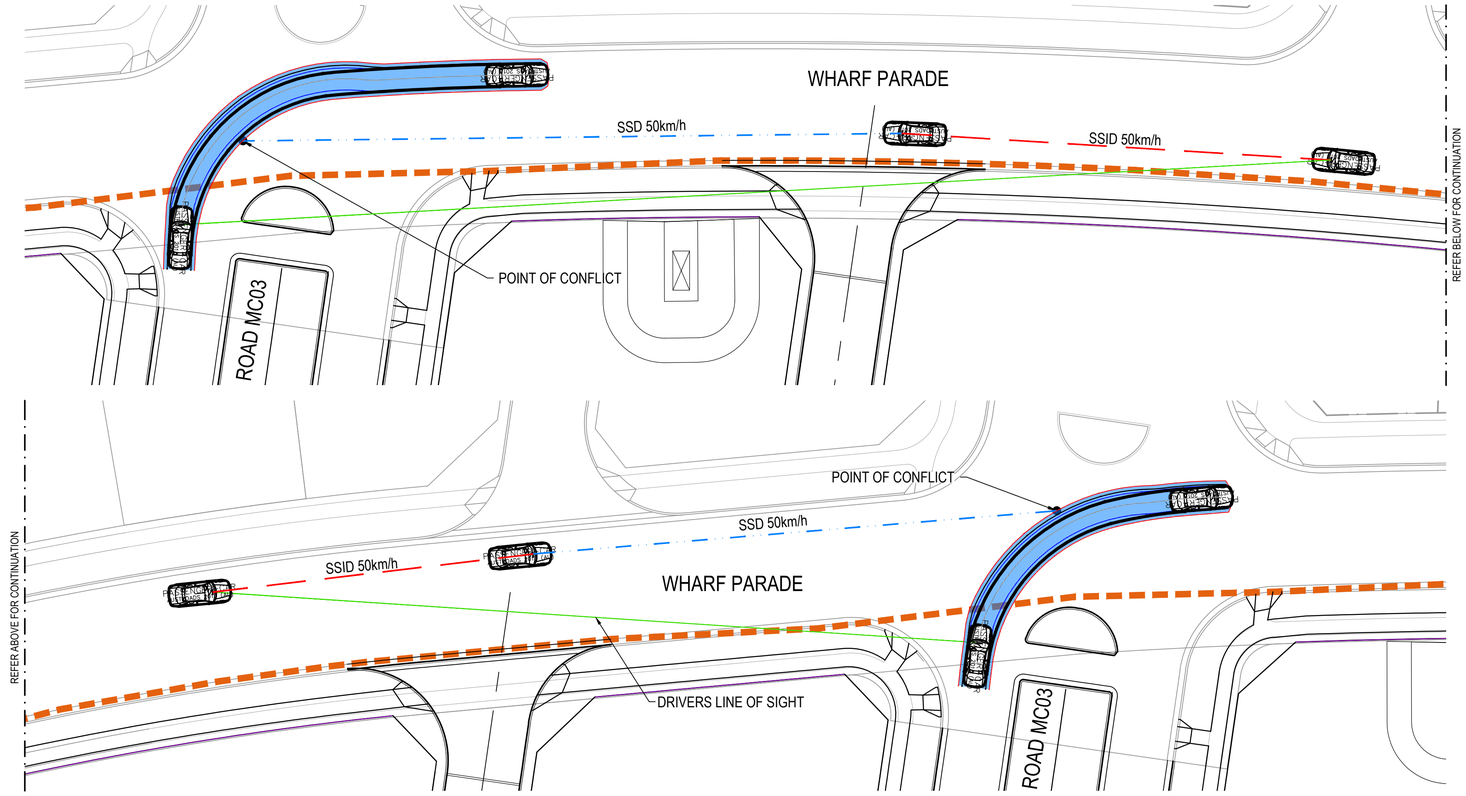
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-435	10006310	05

Date Plotted: 4 Nov 2019 - 05:08PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-435-10006310-nsd-SightDistancePlansSheet4.dwg V1



ROAD MC03 - WHARF PARADE
INTERSECTION 6 APPROACH SIGHT DISTANCE
SCALE 1 : 250



ROAD MC03 - WHARF PARADE
INTERSECTION 6 APPROACH SIGHT DISTANCE
SCALE 1 : 250

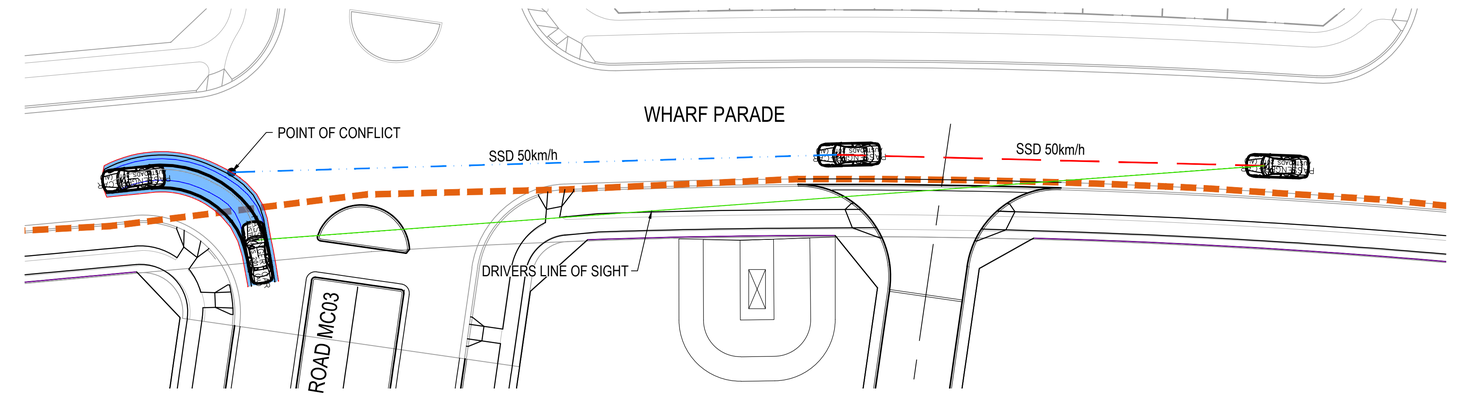
INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD



ROAD MC03 - WHARF PARADE
INTERSECTION 6 APPROACH SIGHT DISTANCE
SCALE 1 : 250

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-436-10006310-nsd-SightDistancePlansSheet5.dwg

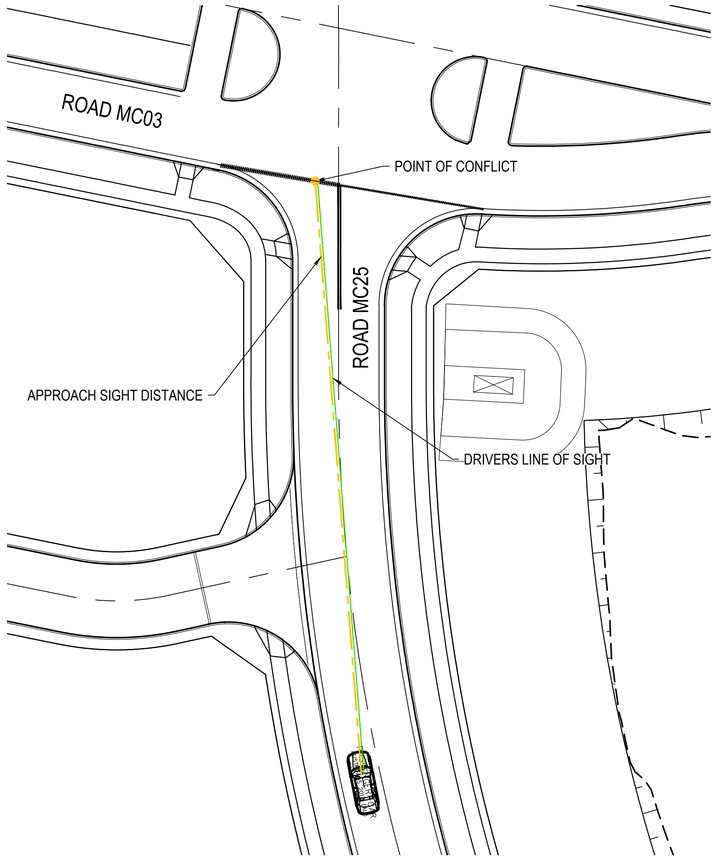
Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 5

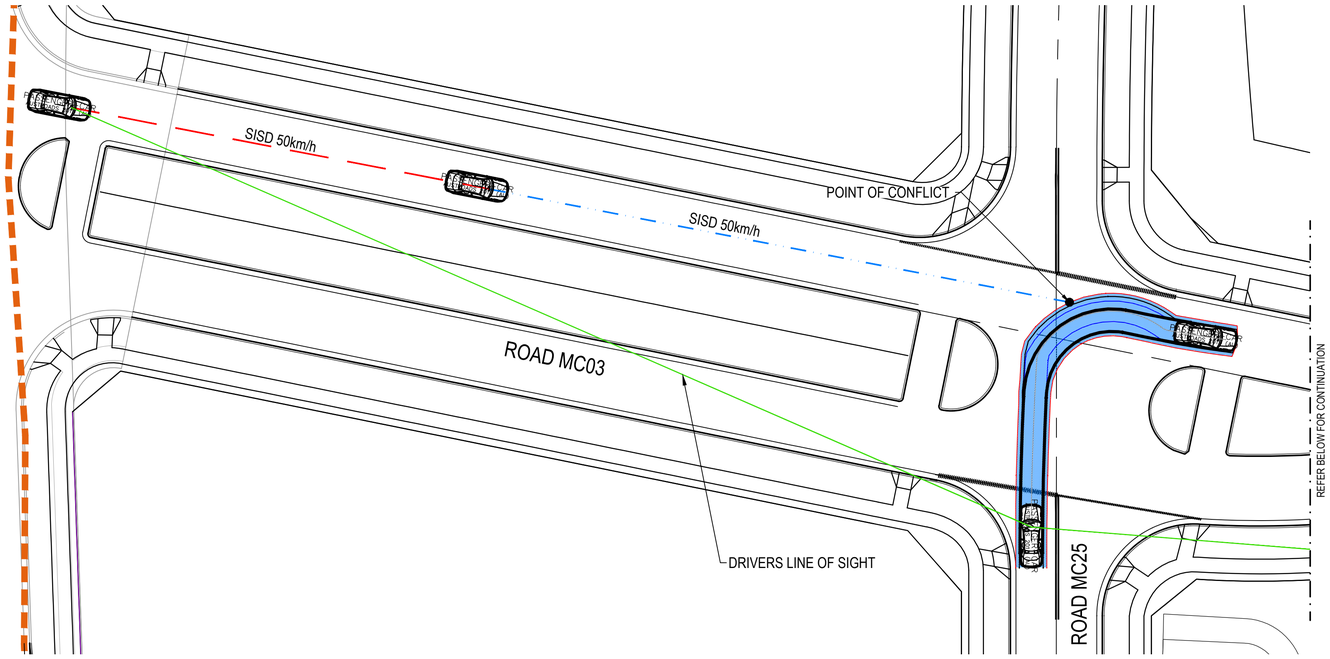
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-436–	10006310	– 05

100mm on Original



ROAD MC25 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250



ROAD MC25 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250

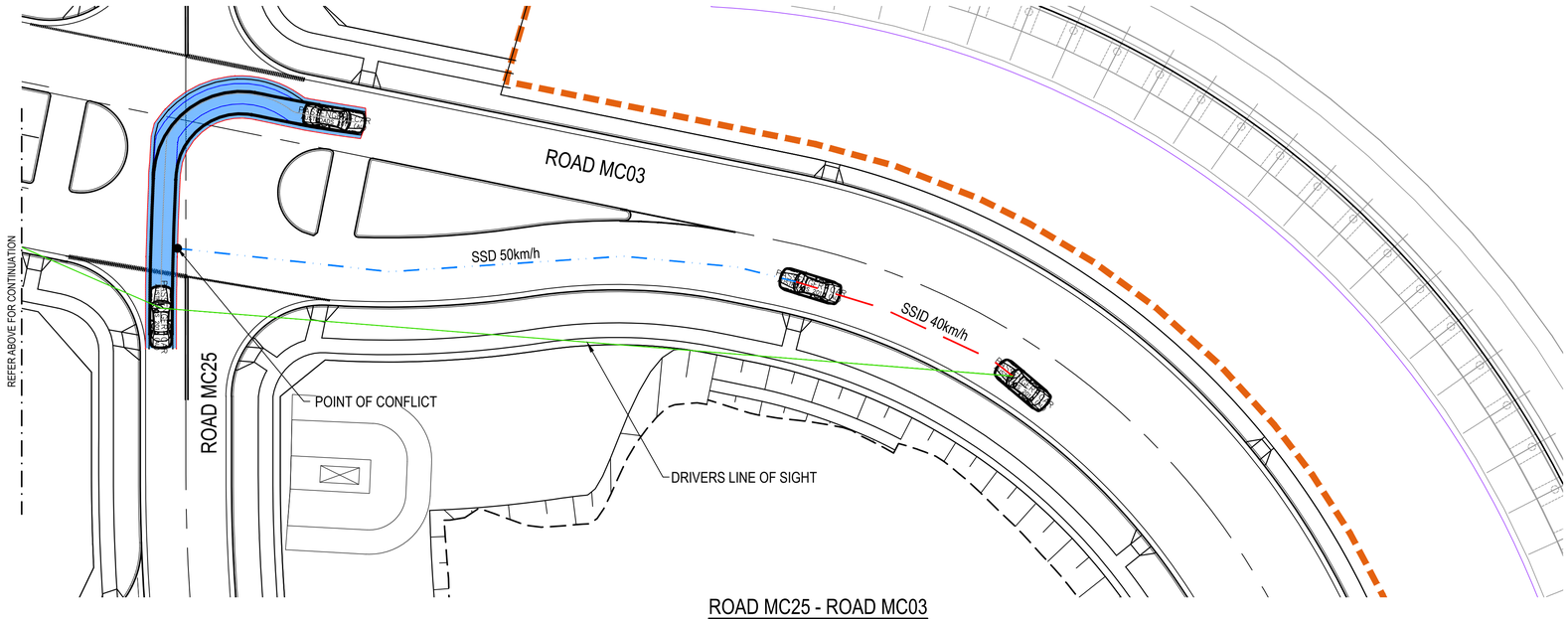
INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	40km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	63.7.89m
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD



ROAD MC25 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-437-10006310-nsd-SightDistancePlansSheet6.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 6

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
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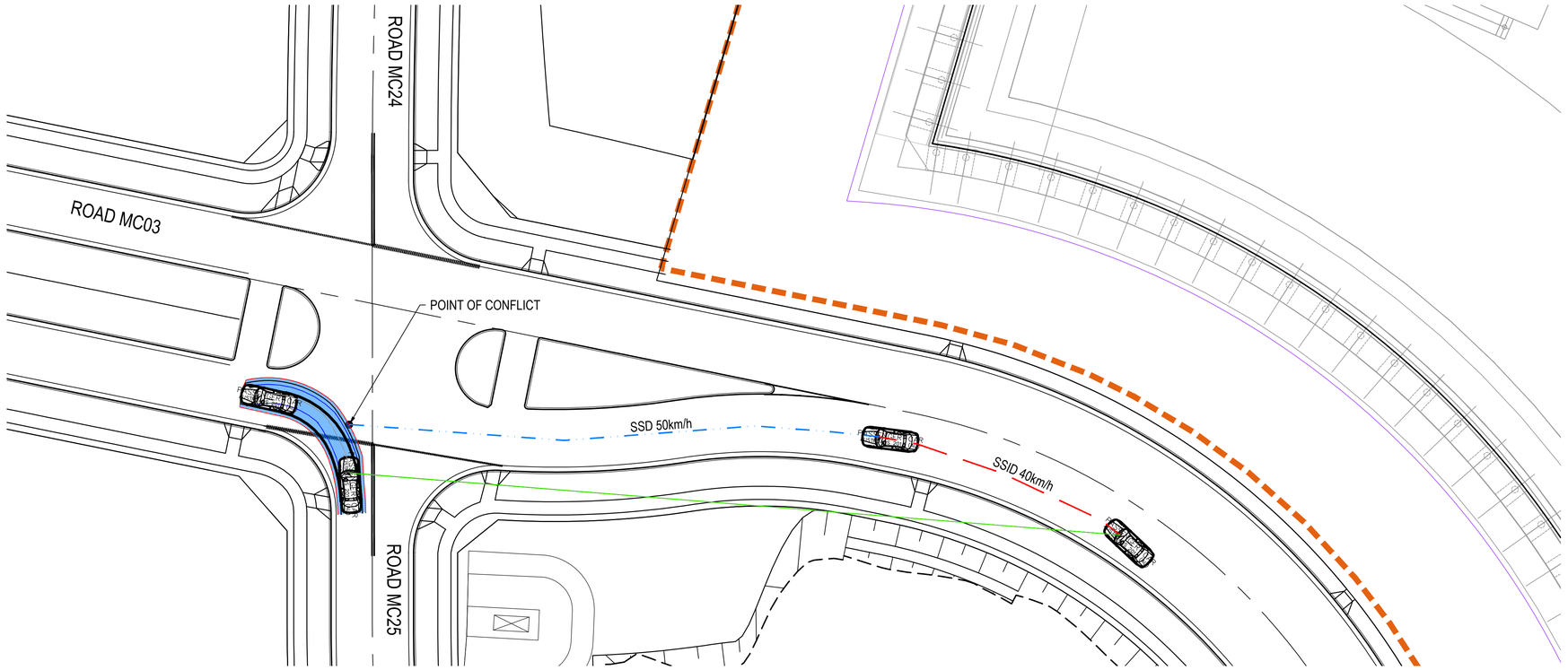
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-437–	10006310	– 05



ROAD MC25 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	40km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	63.7m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-438-10006310-nsd-SightDistancePlansSheet7.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 7

ARCADIS
Arcadis Australia Pacific Pty Limited
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SYDNEY NSW 2000
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Fax No: +61 2 8907 9001
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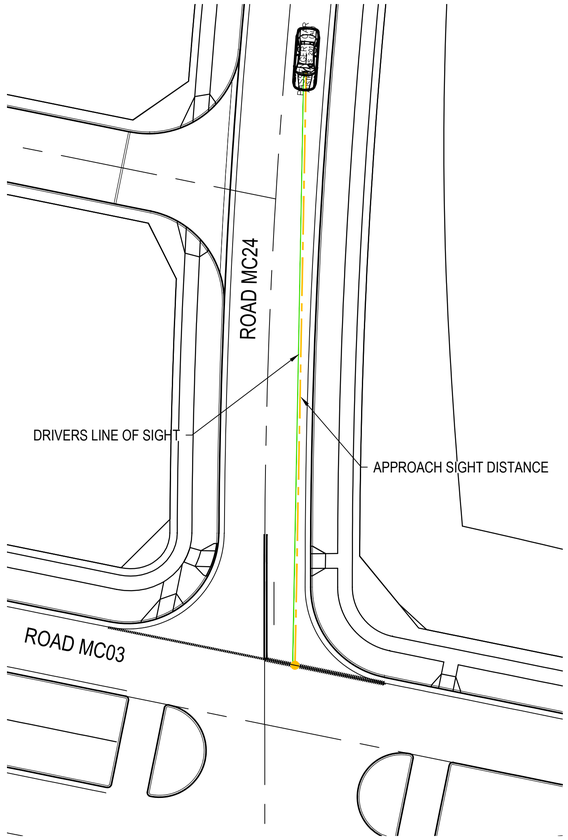
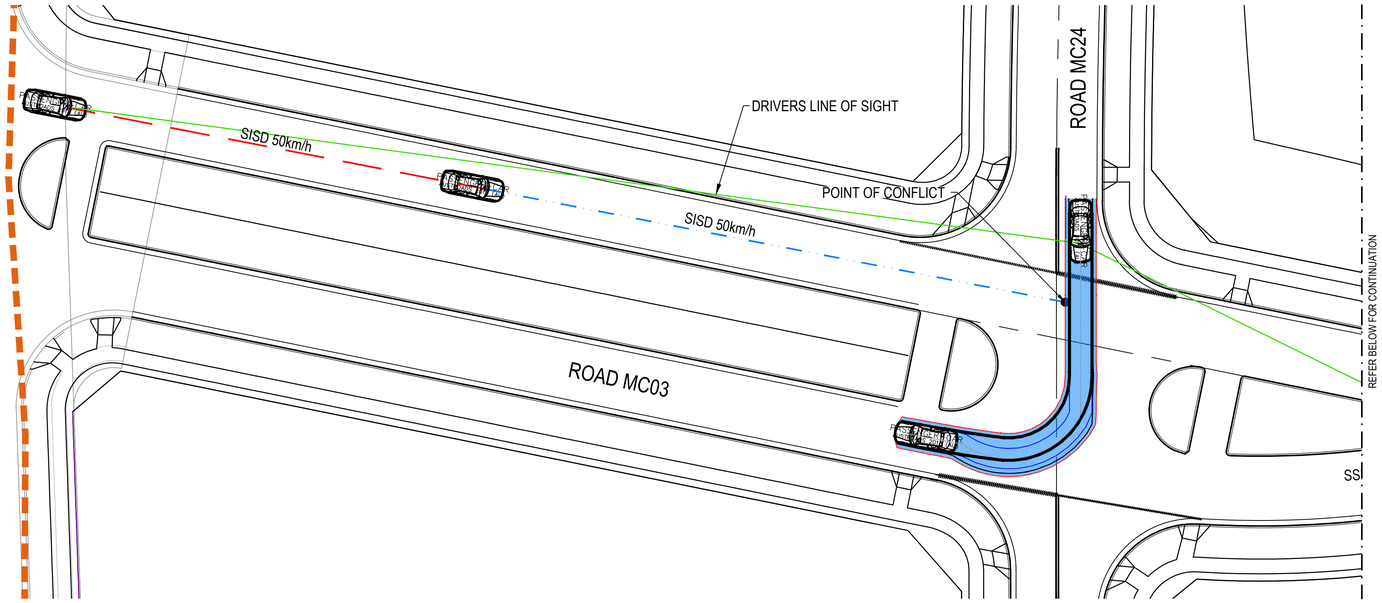
Drawing No.	Project No.	Issue
C-B2C2-438–	10006310	– 05

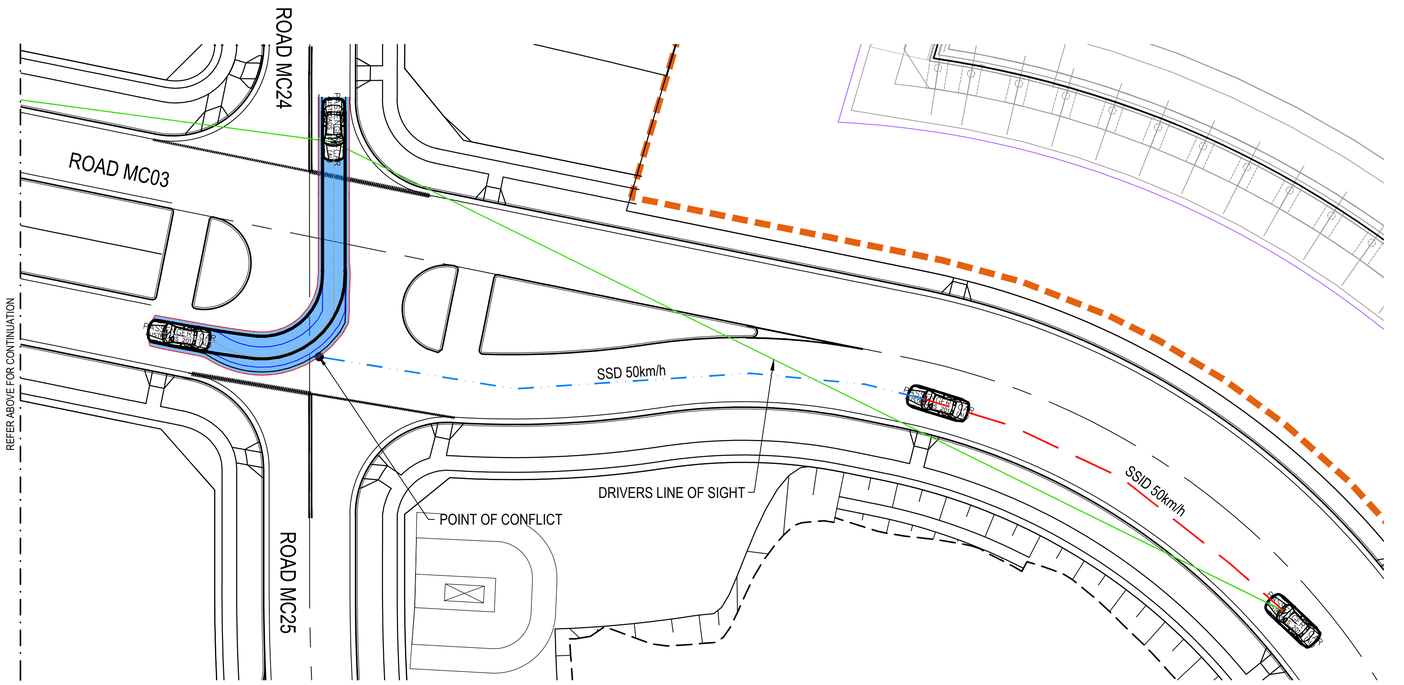
100mm on Original

Date Plotted: 4 Nov 2019 - 05:10PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\21-DA\c-b2c2-438-10006310-nsd-SightDistancePlansSheet7.dwg V1



ROAD MC24 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250





ROAD MC24 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-439-10006310-nsd-SightDistancePlansSheet8.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 8

ARCADIS
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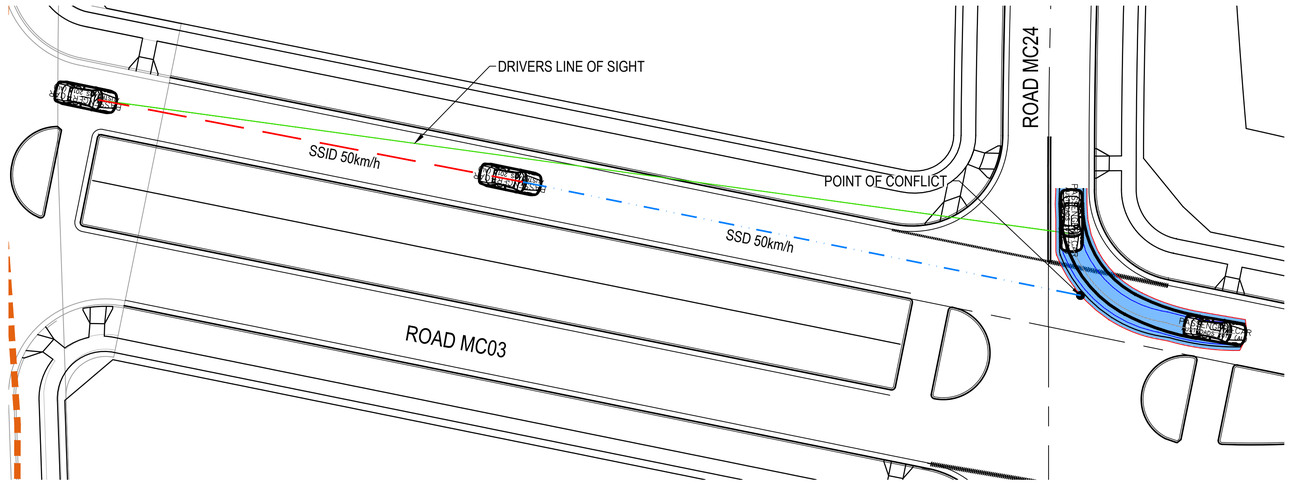
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-439–	10006310	– 05



ROAD MC24 - ROAD MC03
INTERSECTION 7 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-440-10006310-nsd-SightDistancePlansSheet9.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 9

ARCADIS
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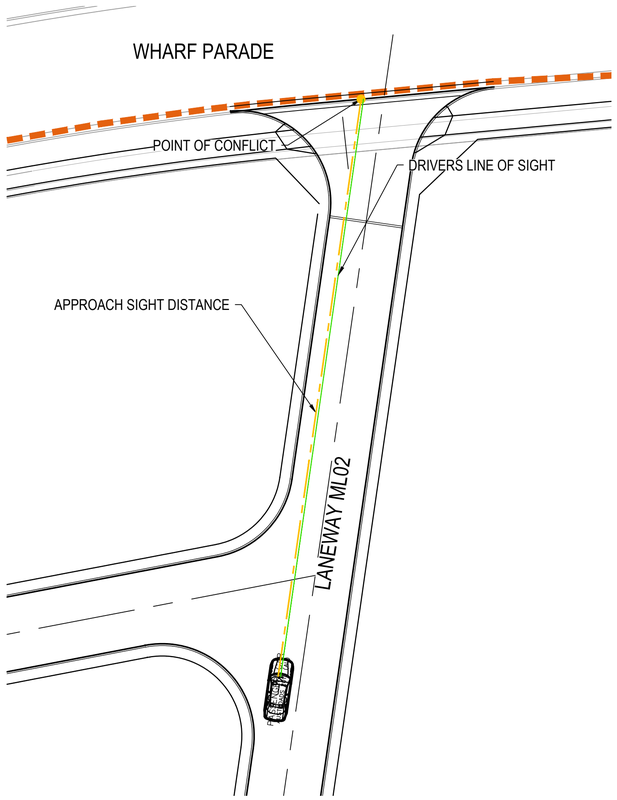
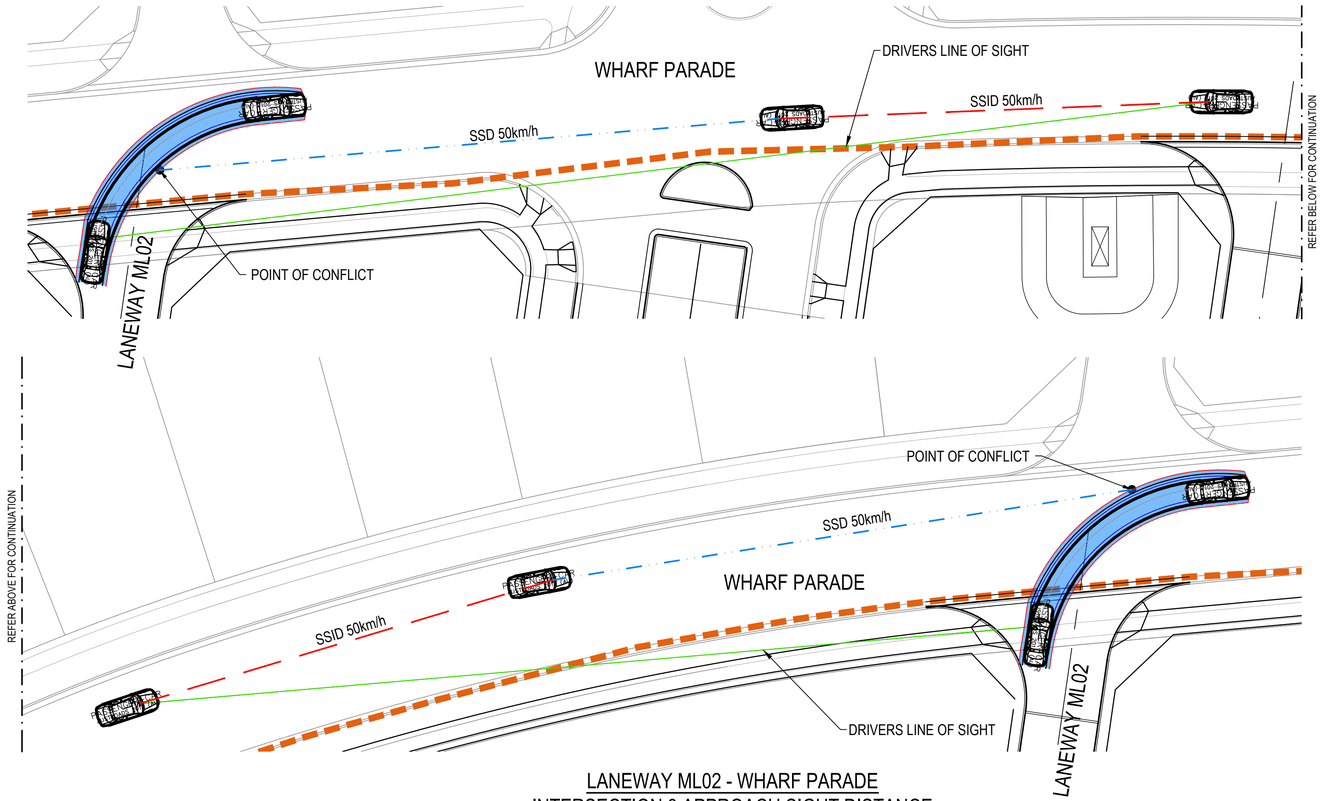
Drawing No.	Project No.	Issue
C-B2C2-440–	10006310	– 04

100mm on Original

Date Plotted: 25 Oct 2019 - 02:29PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-440-10006310-nsd-SightDistancePlansSheet9.dwg V1



LANEWAY ML02 - WHARF PARADE
INTERSECTION 8 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML02 - WHARF PARADE
INTERSECTION 8 APPROACH SIGHT DISTANCE
SCALE 1 : 250

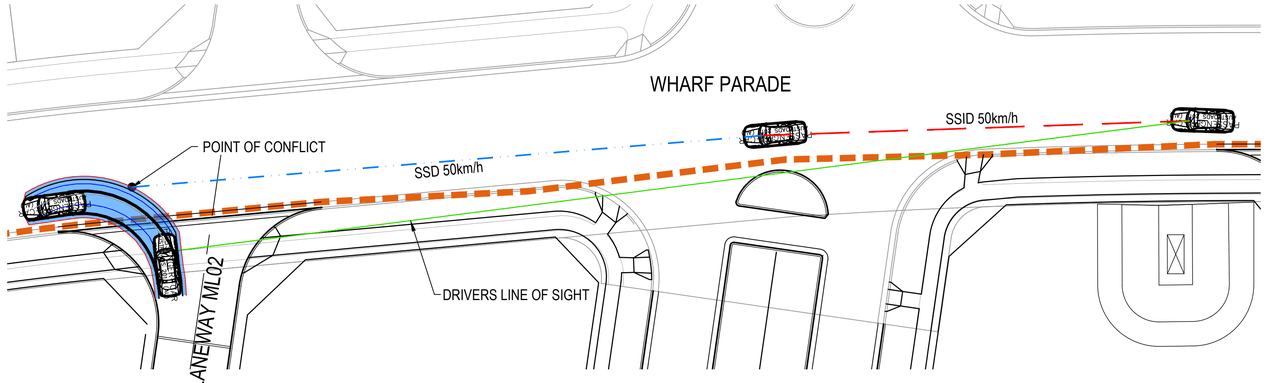
INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD



LANEWAY ML02 - WHARF PARADE
INTERSECTION 8 APPROACH SIGHT DISTANCE
SCALE 1 : 250

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-441-10006310-nsd-SightDistancePlansSheet10.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 10

ARCADIS
Arcadis Australia Pacific Pty Limited
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SYDNEY NSW 2000
ABN 76 104 485 289
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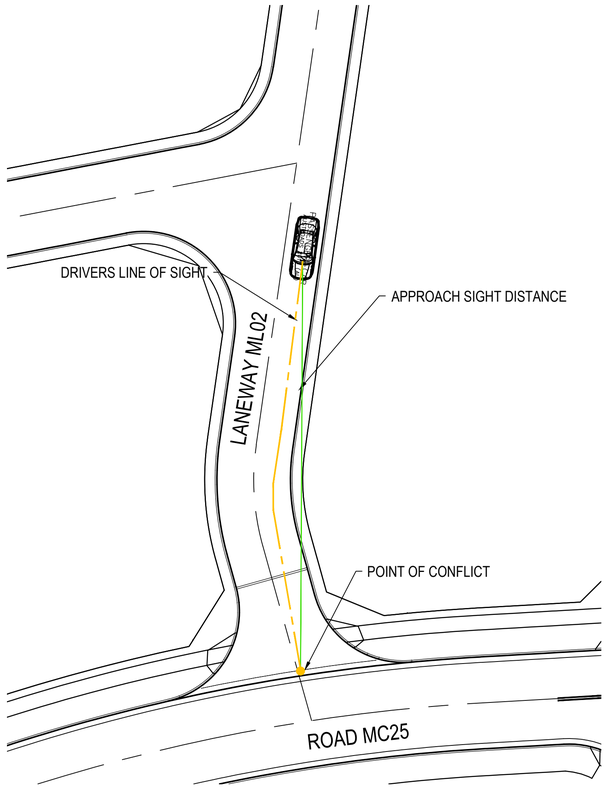
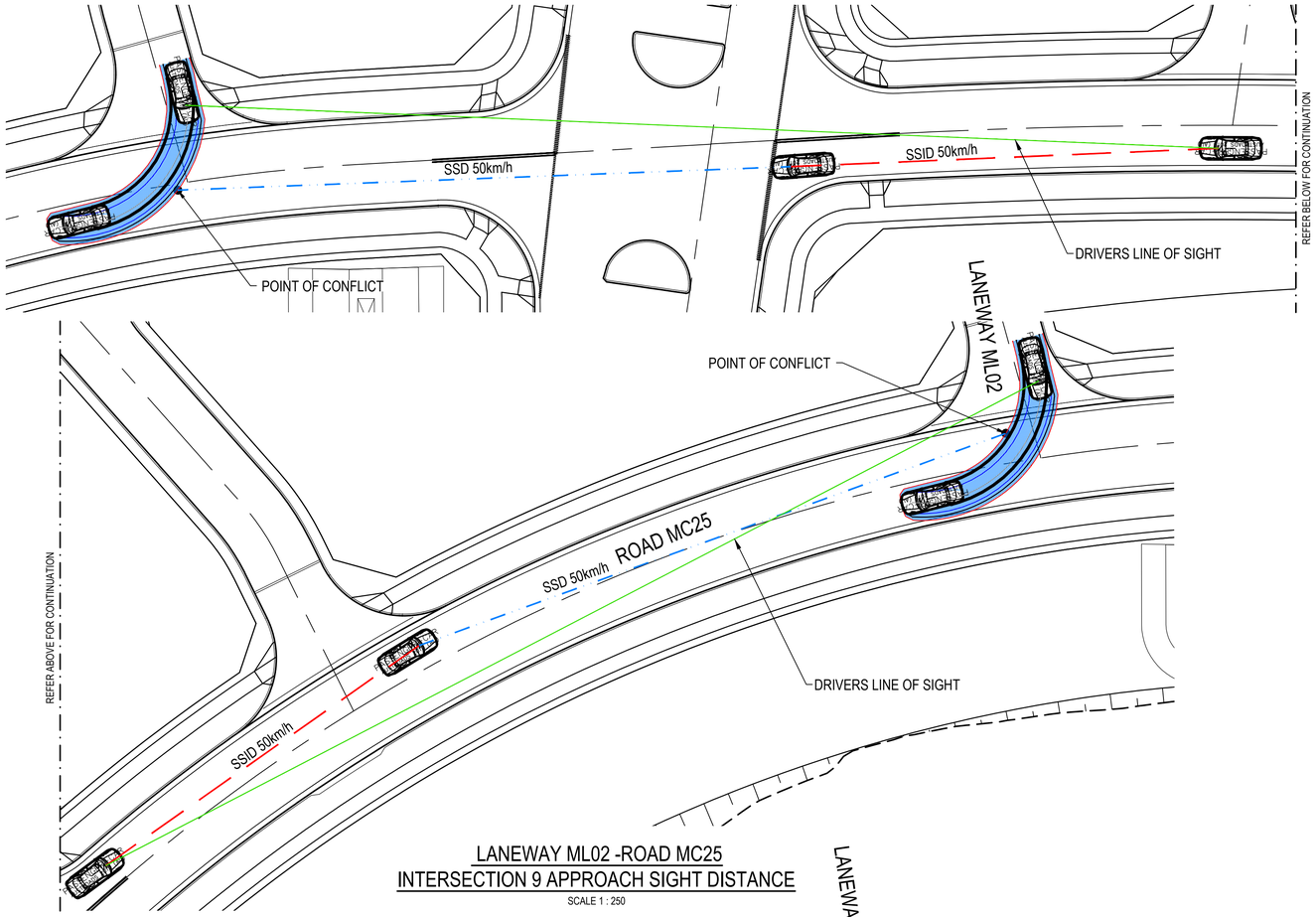
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-441–	10006310	– 04

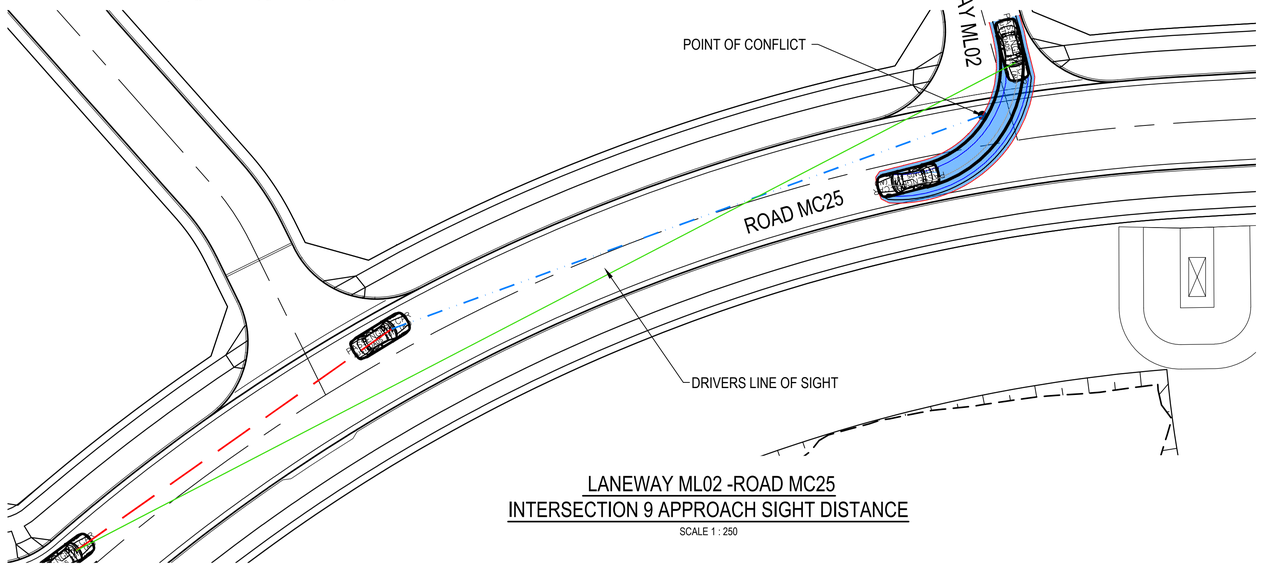
Date Plotted: 25 Oct 2019 - 02:30PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-441-10006310-nsd-SightDistancePlansSheet10.dwg V1



LANEWAY ML02 -ROAD MC25
INTERSECTION 9 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML02 -ROAD MC25
INTERSECTION 9 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML02 -ROAD MC25
INTERSECTION 9 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	40km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	34.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-442-10006310-nsd-SightDistancePlansSheet11.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 11

ARCADIS
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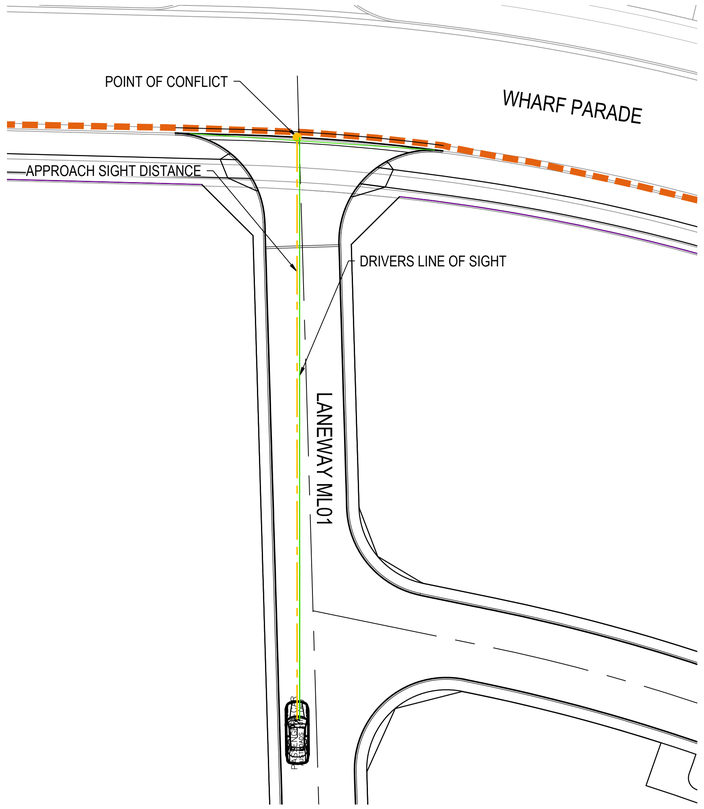
arcadis.com

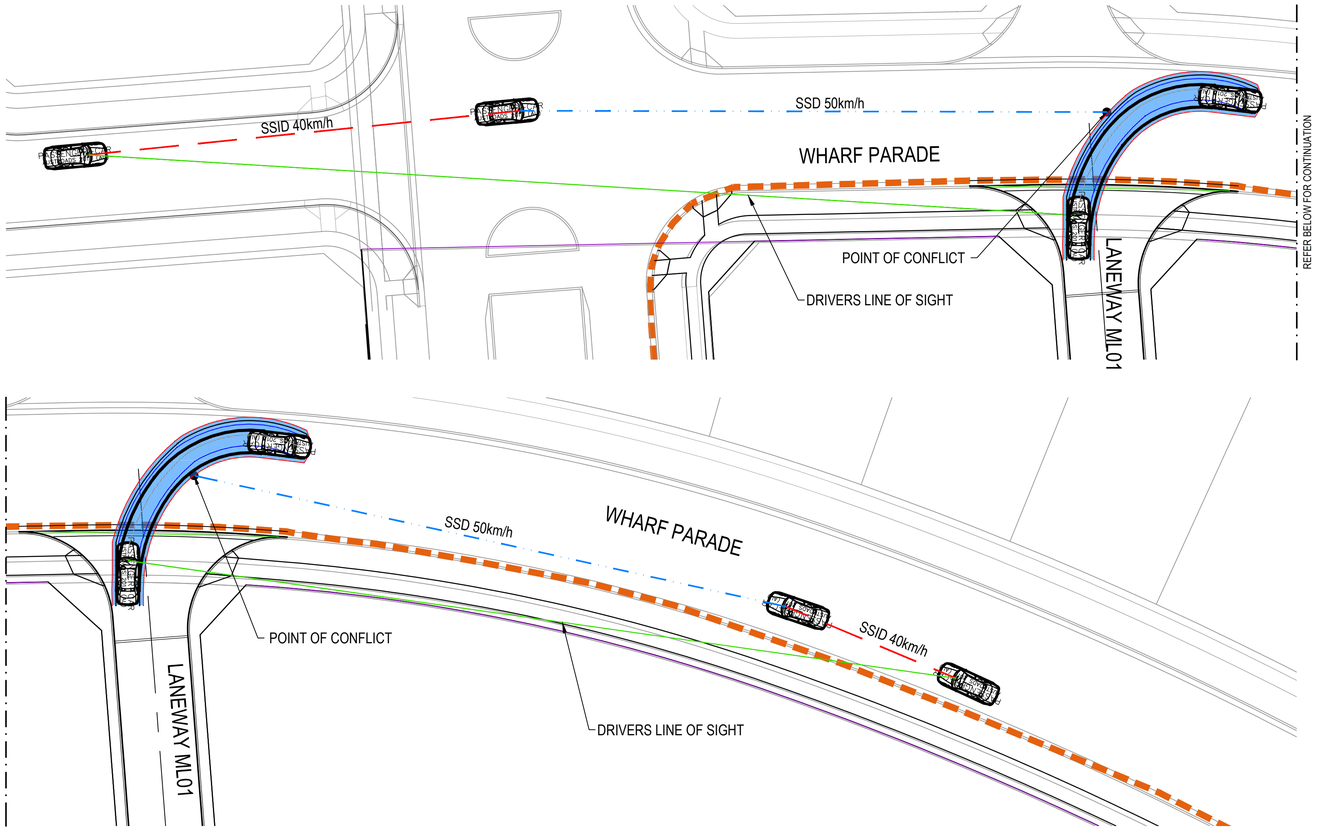
Drawing No.	Project No.	Issue
C-B2C2-442–	10006310	– 05

100mm on Original

Date Plotted: 4 Nov 2019 - 05:11PM File Name: C:\12dSW\data\AUSY01APP04\AA0006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-442-10006310-nsd-SightDistancePlansSheet11.dwg V1



LANEWAY ML01 - WHARF PARADE
INTERSECTION 10 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML01 - WHARF PARADE
INTERSECTION 10 APPROACH SIGHT DISTANCE
SCALE 1 : 250

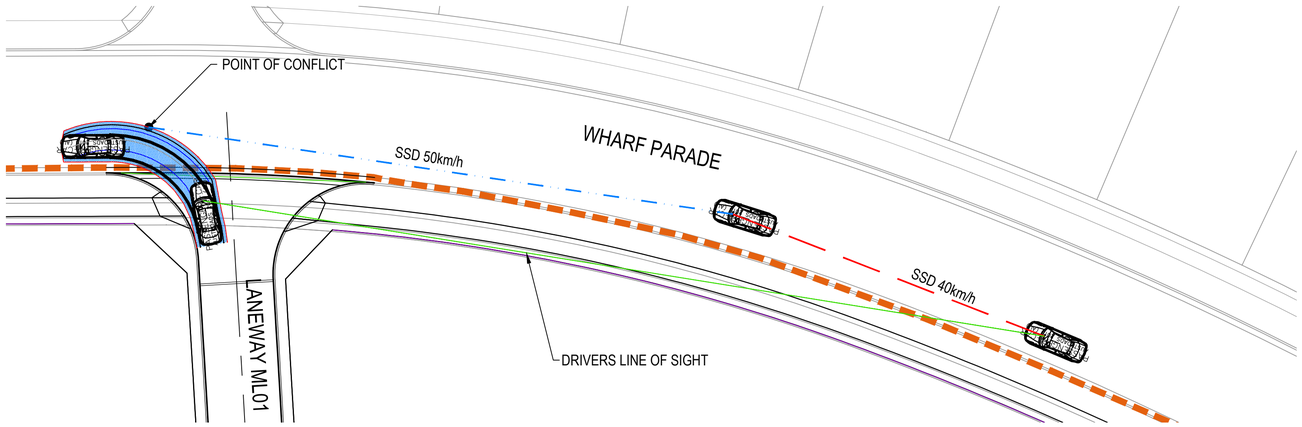
INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	40km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	63.7.89m
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD



LANEWAY ML01 - WHARF PARADE
INTERSECTION 10 APPROACH SIGHT DISTANCE
SCALE 1 : 250

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-443-10006310-nsd-SightDistancePlansSheet12.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 12

ARCADIS
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ABN 76 104 485 289
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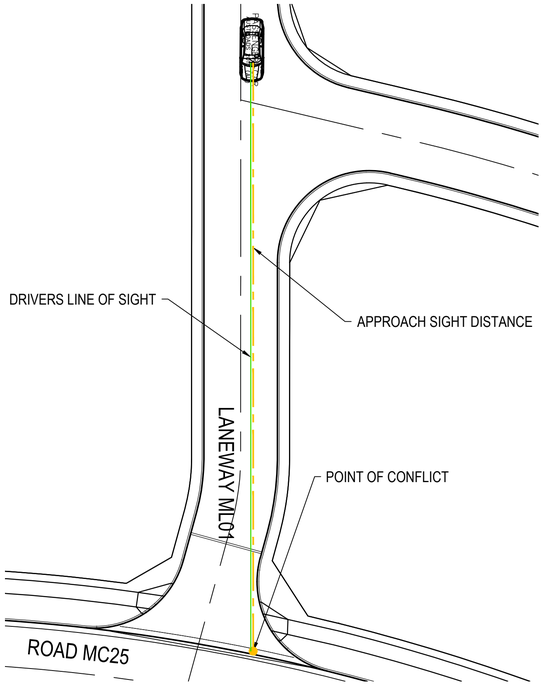
Fax No: +61 2 8907 9001
arcadis.com

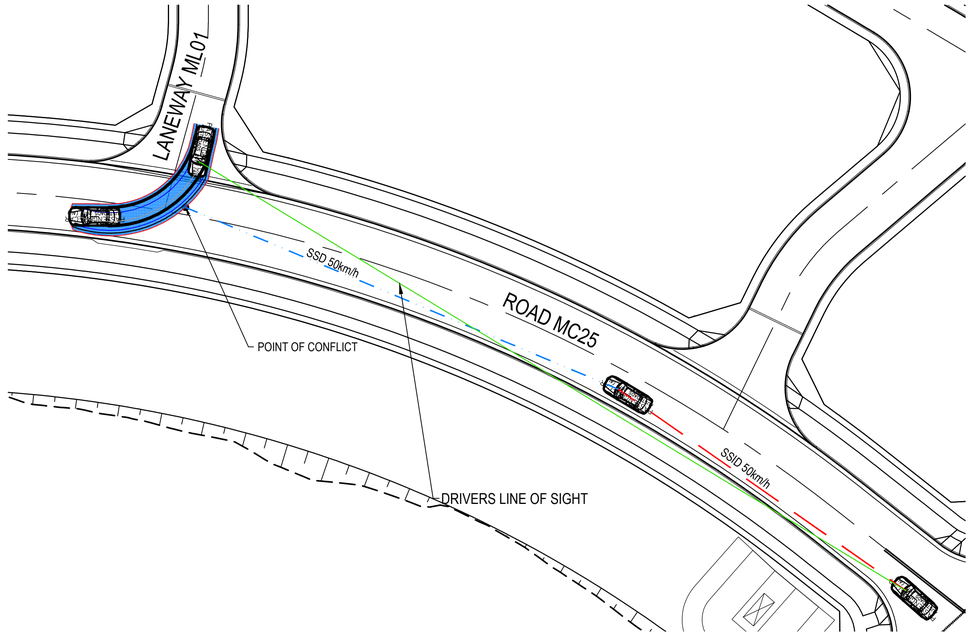
Drawing No.	Project No.	Issue
C-B2C2-443–	10006310	– 05

100mm on Original

Date Plotted: 4 Nov 2019 - 05:12PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-443-10006310-nsd-SightDistancePlansSheet12.dwg V1



LANEWAY ML01 - ROAD MC25
INTERSECTION 11 APPROACH SIGHT DISTANCE
SCALE 1 : 250



LANEWAY ML01 - ROAD MC25
INTERSECTION 11 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-444-10006310-nsd-SightDistancePlansSheet13.dwg

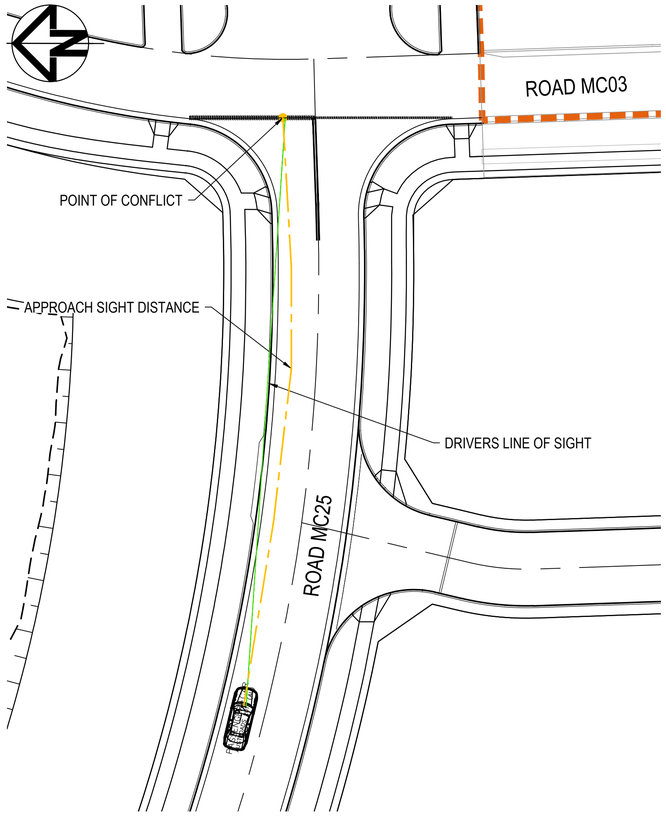
Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 13

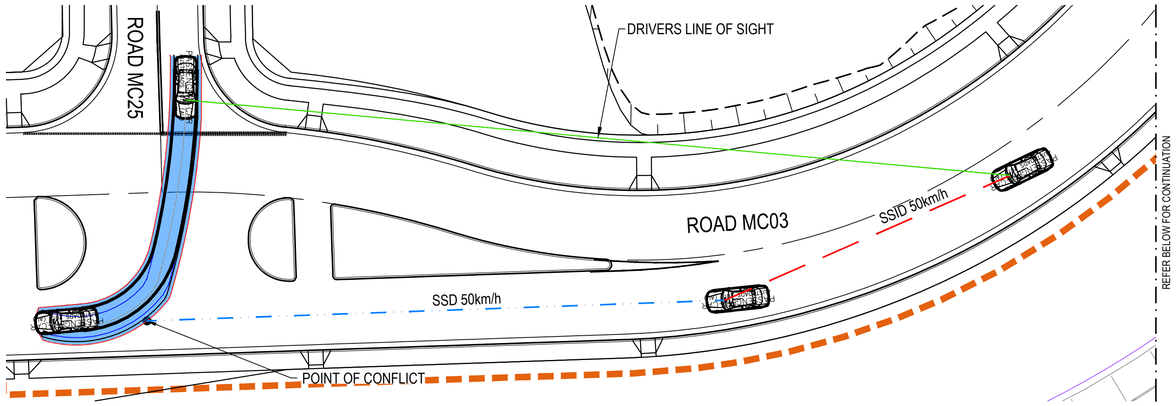
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-444	10006310	05

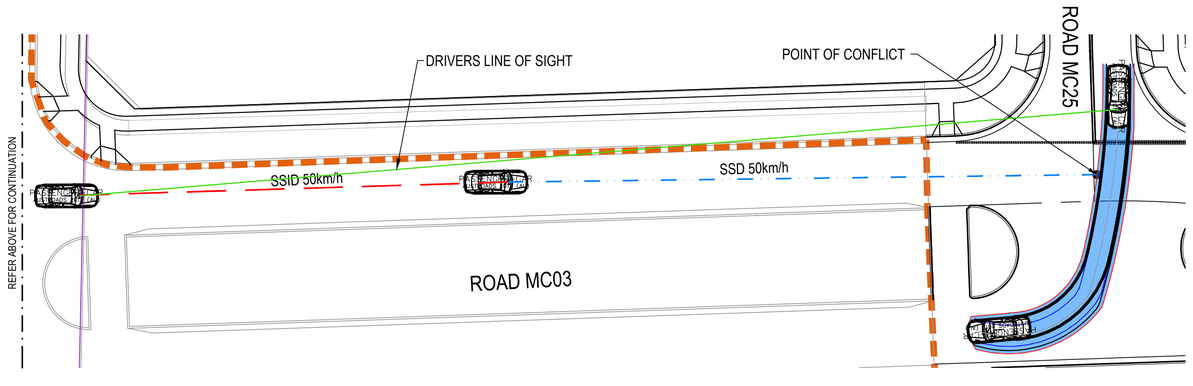
100mm on Original

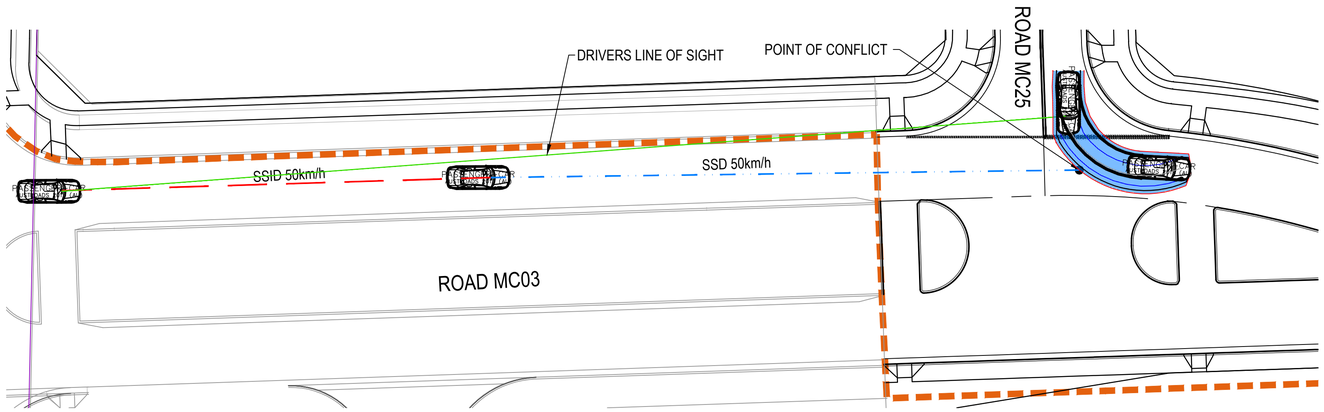


ROAD MC25 - ROAD MC03
INTERSECTION 12 APPROACH SIGHT DISTANCE
SCALE 1 : 250



ROAD MC25 - ROAD MC03
INTERSECTION 12 APPROACH SIGHT DISTANCE
SCALE 1 : 250





ROAD MC25 - ROAD MC03
INTERSECTION 12 APPROACH SIGHT DISTANCE
SCALE 1 : 250

INTERSECTION APPROACH SIGHT DISTANCE (ASD)

REACTION TIME	1.5s
COEFFICIENT OF DECELERATION	0.362
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (ASD)	48.02m

SAFE INTERSECTION SIGHT DISTANCES (SISD)

DIRECTION OF APPROACHING TRAFFIC	ROAD MC24 WEST BOUND
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTERSECTION SITE DISTANCE (SSD)	48.02m
DIRECTION OF APPROACHING TRAFFIC	
DECISION TIME	4.5s
COEFFICIENT OF DECELERATION	0.46
OPERATING SPEED	50km/h
LONGITUDINAL GRADE	0.00%
SAFE INTESECTION SITE DISTANCE (SISD)	83.89m

SISD
SSD

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20 25m
1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

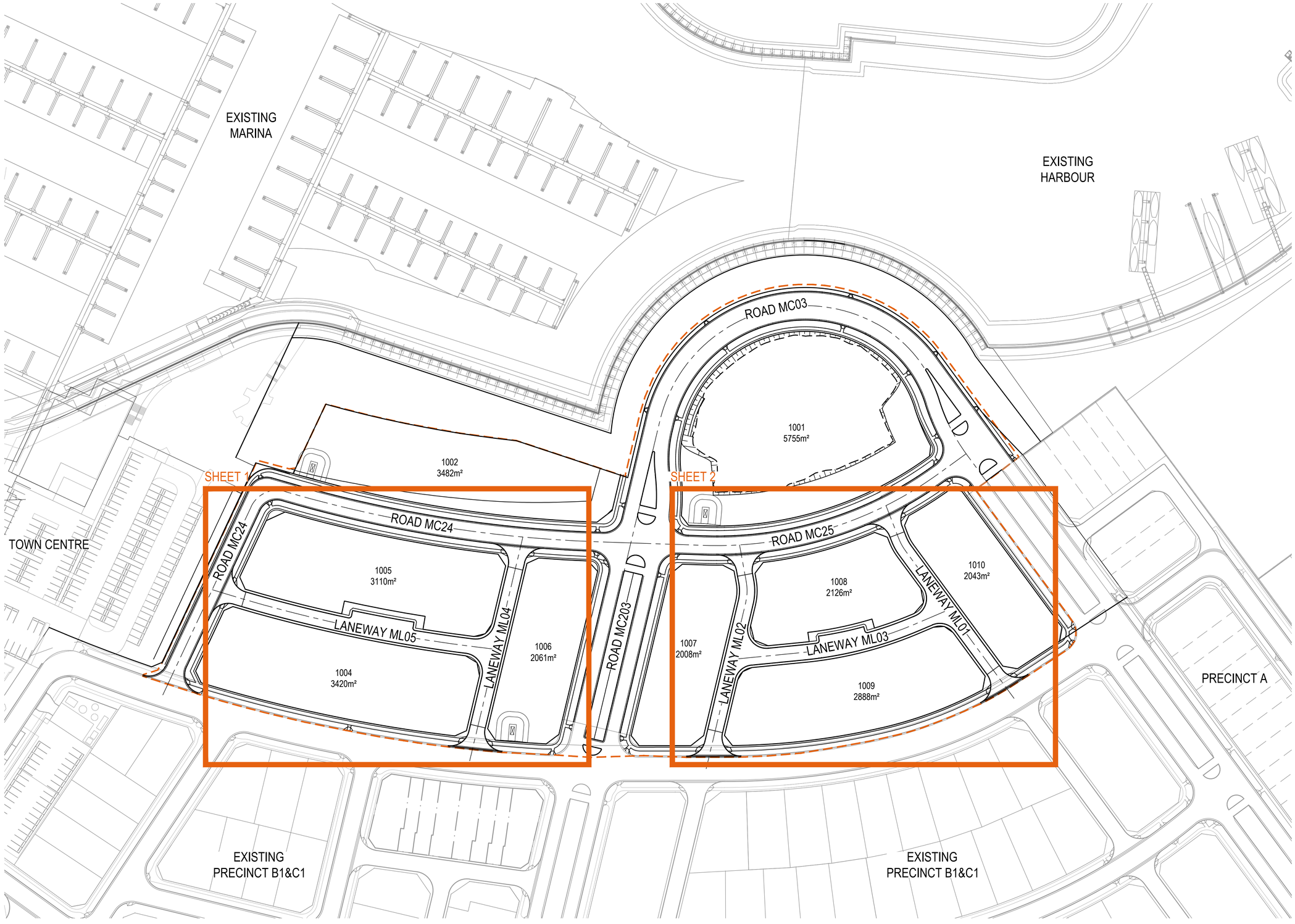
Filename: C-b2c2-445-10006310-nsd-SightDistancePlansSheet14.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: SIGHT DISTANCE PLANS
SHEET 14

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-445–	10006310	– 05



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

Client

FRASERS PROPERTY

Status

PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 750	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-451-10006310-nsd-GarbageCollectionLayoutPlan.dwg

Project

SHELL COVE
PRECINCT B2 AND C2

Title

GARBAGE COLLECTION
LAYOUT PLAN

ARCADIS

Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289

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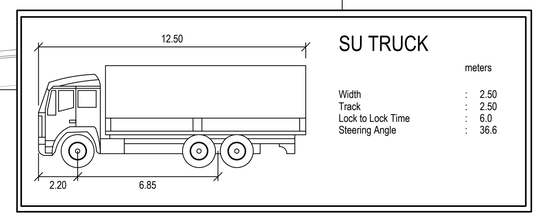
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-451	10006310	05

100mm on Original

Date Plotted: 4 Nov 2019 - 05:15PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-451-10006310-nsd-GarbageCollectionLayoutPlan.dwg V1

ROAD MC24 - ML04 - ML05
GARBAGE TRUCK SWEPT PATH
SCALE 1 : 250



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

Issue	Description	Date
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

		Current Issue Signatures	
Scales	1 : 250	Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-452-10006310-nsd-GarbageCollectionPlansSheet1of2.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: GARBAGE COLLECTION PLANS
SHEET 1 OF 2

ARCADIS
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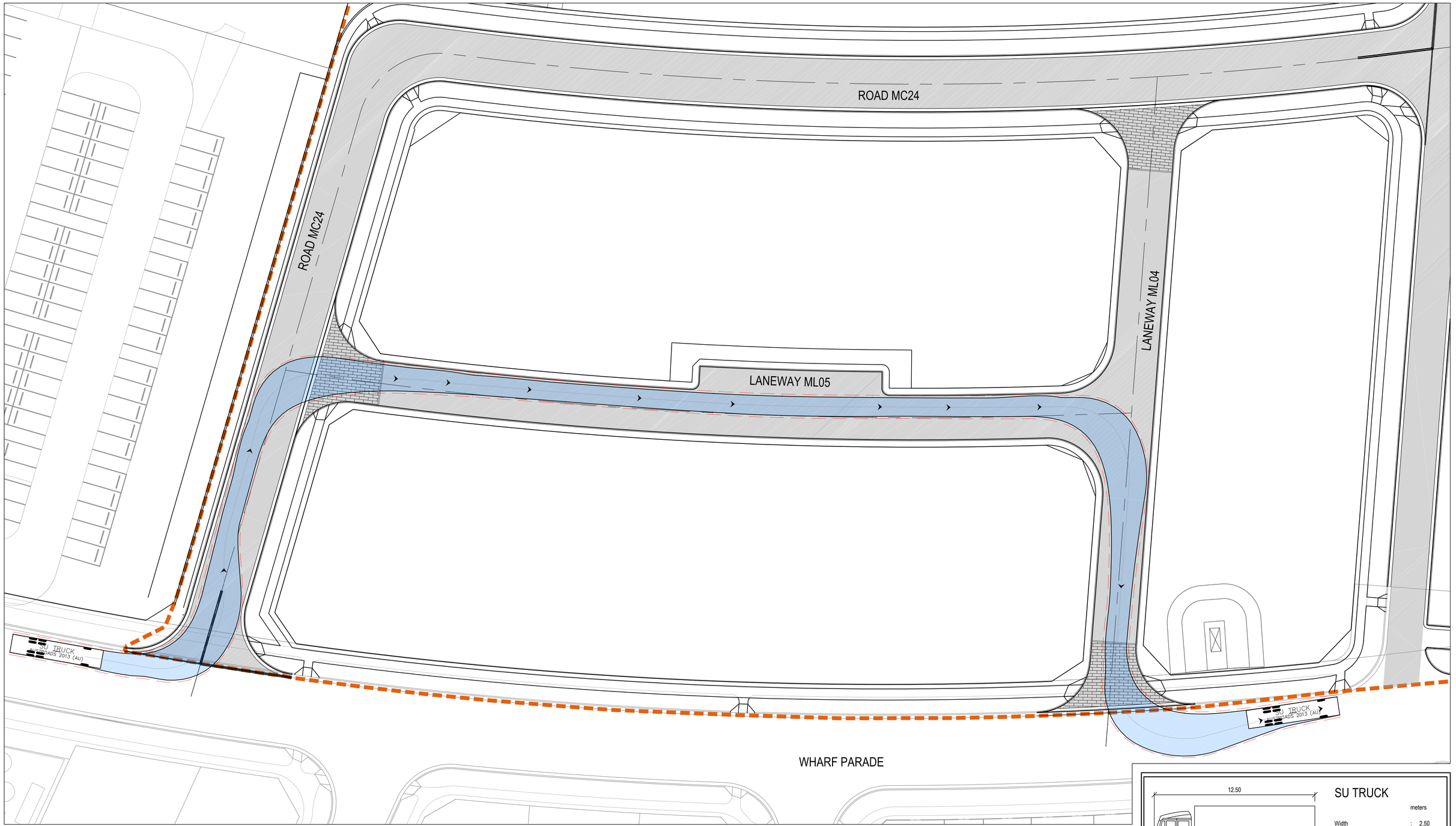
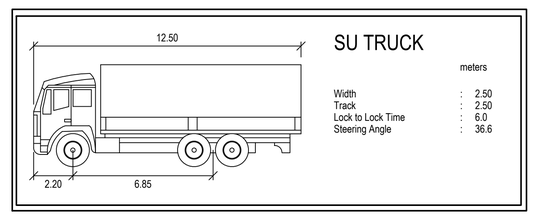
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-452	10006310	04

100mm on Original



ROAD MC24 - ML05 - ML04
GARBAGE TRUCK SWEPT PATH
SCALE 1 : 250



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

100mm on Original

Client

FRASERS PROPERTY

Status
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename C-b2c2-453-10006310-nsd-GarbageCollectionPlansSheet2of2.dwg

Project
SHELL COVE
PRECINCT B2 AND C2

Title
GARBAGE COLLECTION PLANS
SHEET 2 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
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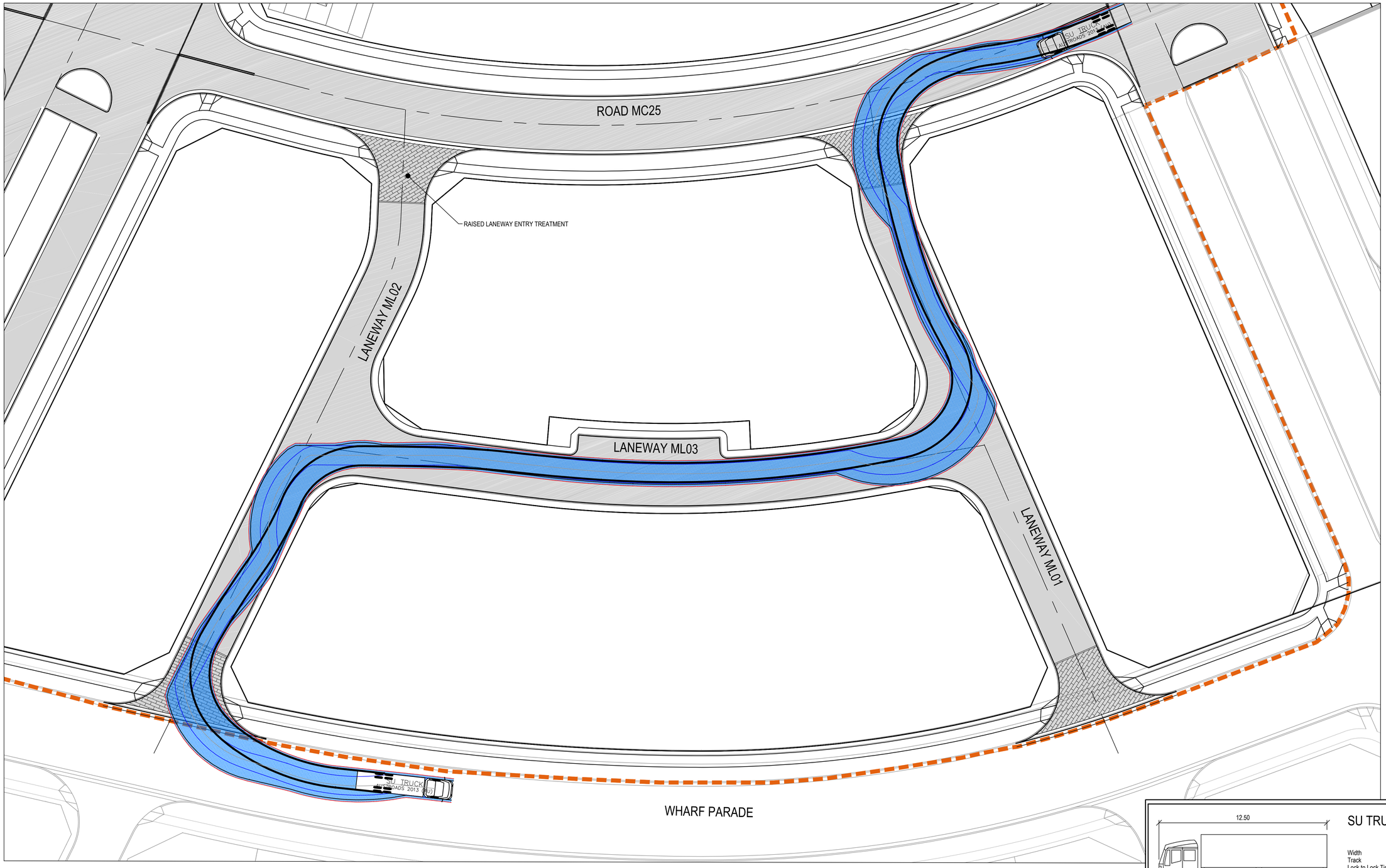
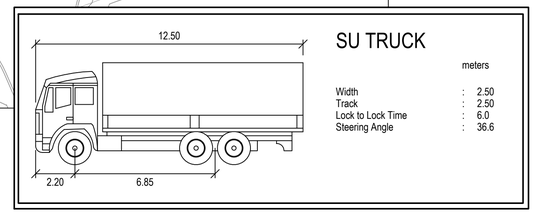
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-453	10006310	05



ROAD ML01 - ML03 - ML02
GARBAGE TRUCK SWEPT PATH
SCALE 1 : 250



SU TRUCK

	meters
Width	2.50
Track	2.50
Lock to Lock Time	6.0
Steering Angle	36.6

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

100mm on Original

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

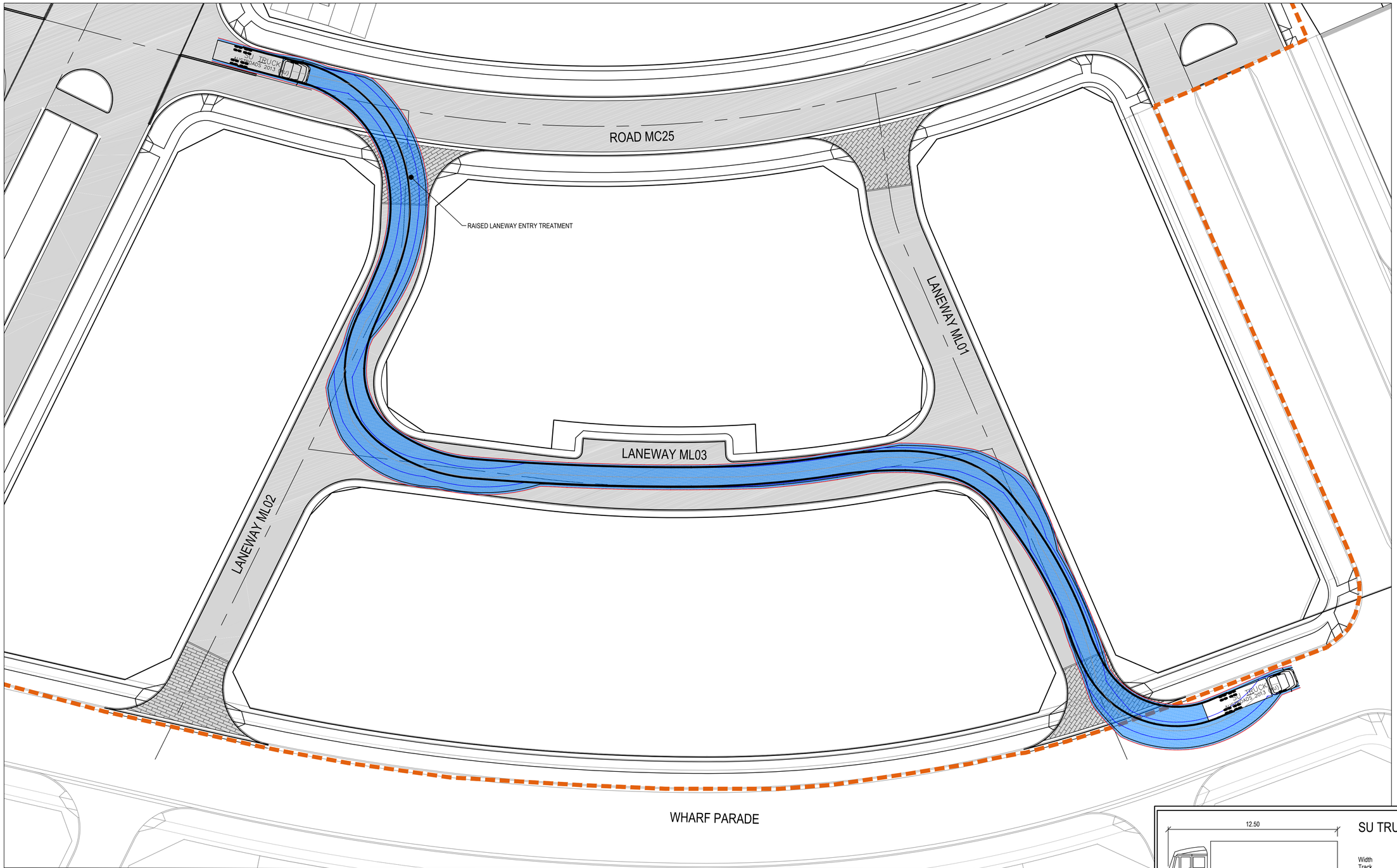
Filename: C-b2c2-454-10006310-nsd-GarbageCollectionPlansSheet1of2.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: GARBAGE COLLECTION PLANS
SHEET 1 OF 2

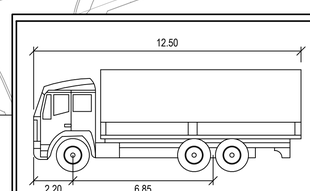
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-454	10006310	05



ROAD ML02 - ML03- ML01
GARBAGE TRUCK SWEPT PATH

SCALE 1 : 250



SU TRUCK

		meters
Width	:	2.50
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	36.6

Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 5 10 15 20 25m

1 : 250

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 250	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-455-10006310-nsd-GarbageCollectionPlansSheet2of2.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

Title: GARBAGE COLLECTION PLANS
SHEET 2 OF 2

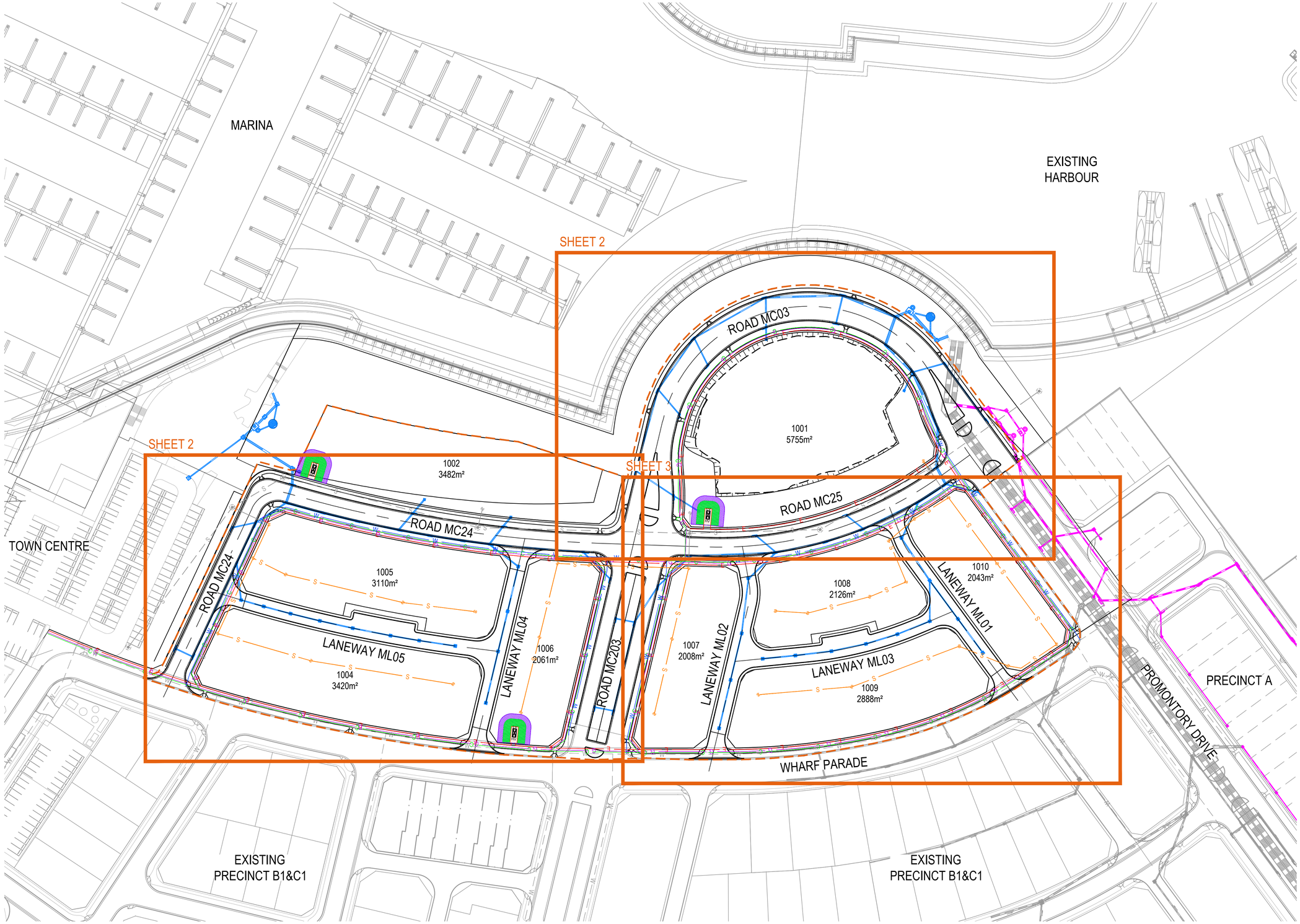
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289

Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-455	10006310	05

100mm on Original

Date Plotted: 4 Nov 2019 - 05:16PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-455-10006310-nsd-GarbageCollectionPlansSheet2of2.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 15 30 45 60 75m

1 : 750

100mm on Original

Client: FRASERS PROPERTY

Status: PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-601-10006310-nsd-CombinedServicesPlan.dwg

Project: SHELL COVE
PRECINCT B2 AND C2

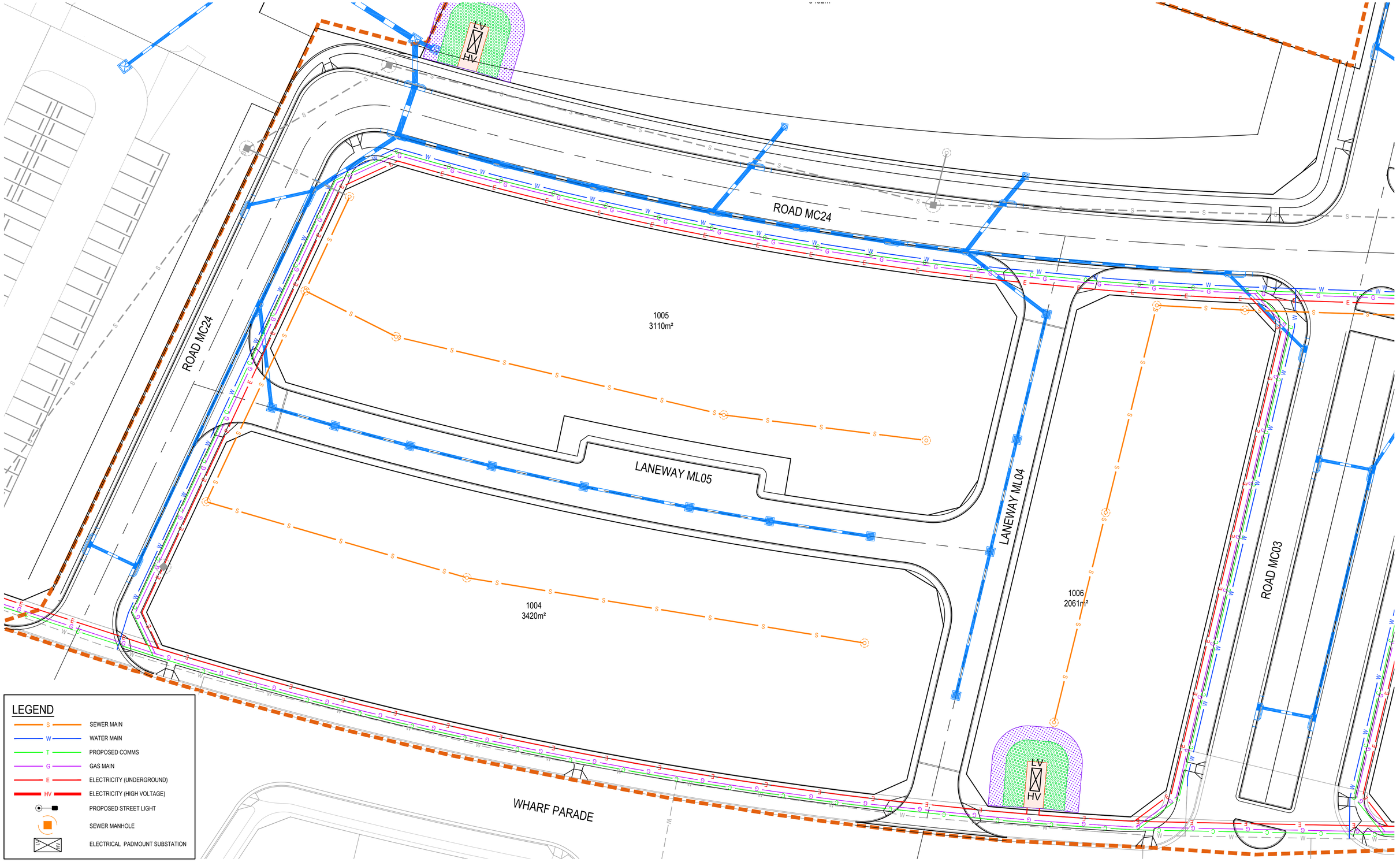
Title: COMBINED SERVICES
LAYOUT

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289

Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-601	10006310	05

Date Plotted: 4 Nov 2019 - 04:56PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-601-10006310-nsd-CombinedServicesPlan.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 10 20 30 40m

1 : 400

Client

FRASERS PROPERTY

Status

PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 400	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-602-10006310-nsd-CombinedServicesPlanSheet1.dwg

Project

SHELL COVE
PRECINCT B2 AND C2

Title

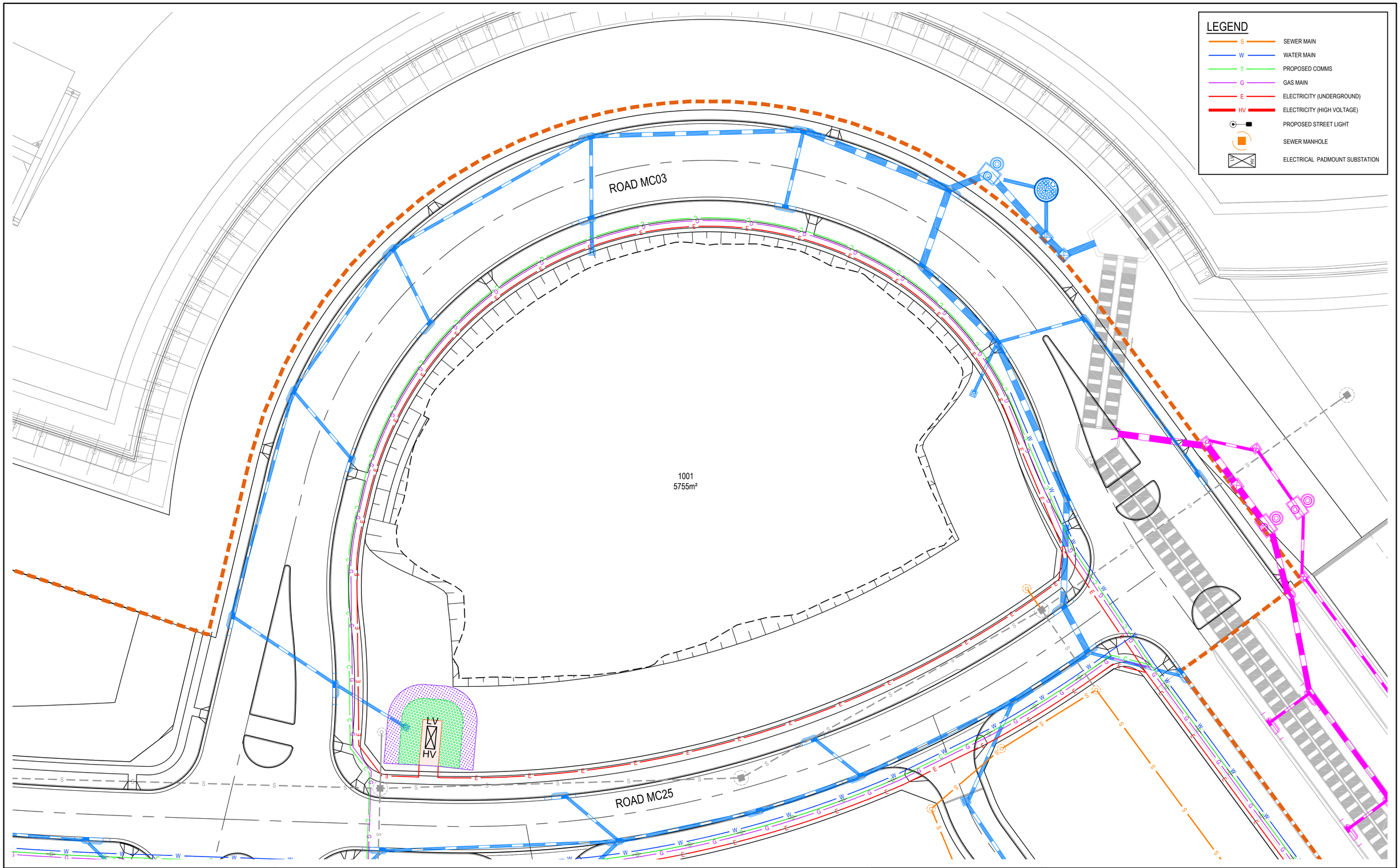
COMBINED SERVICES PLAN
SHEET 1

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-602–	10006310	– 05

100mm on Original

Date Plotted: 4 Nov 2019 - 04:57PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-602-10006310-nsd-CombinedServicesPlanSheet1.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 10 20 30 40m

1 : 400

100mm on Original

Client

FRASERS PROPERTY

Status

PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 400	Current Issue Signatures	
		Drawn A. CARDEÑO	
Original Size	A1	Designed J. WOOD	
Height Datum	AHD	Checked J. HEYDON	
Grid	MGA	Approved J. HEYDON	

Filename: C-b2c2-603-10006310-nsd-CombinedServicesPlanSheet2.dwg

Project

SHELL COVE
PRECINCT B2 AND C2

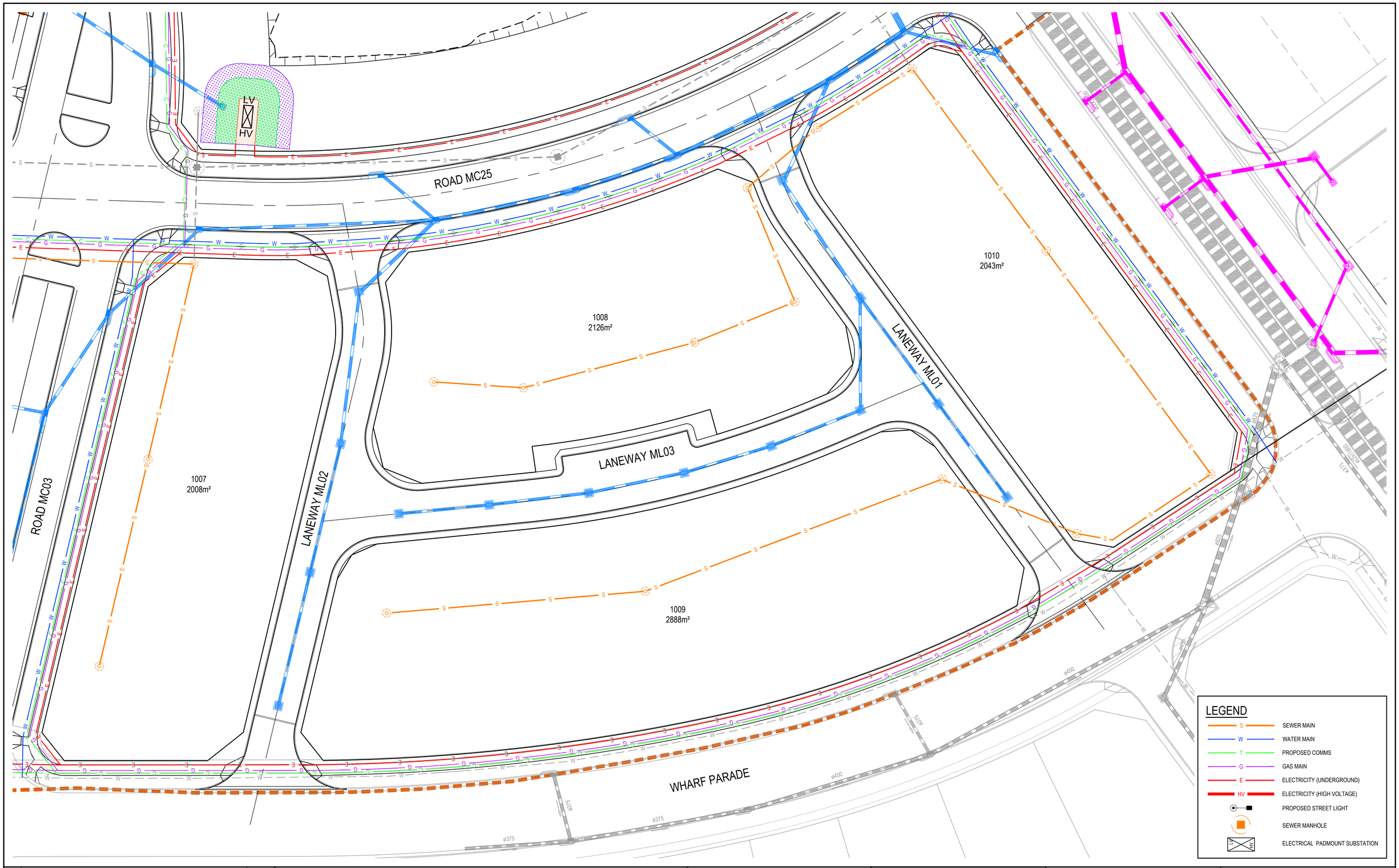
Title

COMBINED SERVICES PLAN
SHEET 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 16, 580 George Street
SYDNEY NSW 2000
ABN 76 104 485 289
Tel No: +61 2 8907 9000
Fax No: +61 2 8907 9001
arcadis.com

Drawing No.	Project No.	Issue
C-B2C2-603–	10006310	– 05

Date Plotted: 4 Nov 2019 - 04:59PM File Name: C:\12dSW\data\AUSY01APP04\AA006310-Shell Cove_28\D-DigEng\DA-CAD\DAC-Drawings\DACA-Civil\DACAB-Precinct B2 C2\1-DA\c-b2c2-603-10006310-nsd-CombinedServicesPlanSheet2.dwg V1



Issue	Description	Date
05	UPDATED DA ISSUE	04/11/2019
04	UPDATED DA ISSUE	25/10/2019
03	UPDATED DA ISSUE	04/10/2019
02	FINAL ISSUE	10/05/2018
01	DRAFT ISSUE	10/04/2018

0 10 20 30 40m

1 : 400

Client

FRASERS PROPERTY

Status

PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 400	Current Issue Signatures	
		Drawn	A. CARDEÑO
Original Size	A1	Designed	J. WOOD
Height Datum	AHD	Checked	J. HEYDON
Grid	MGA	Approved	J. HEYDON

Filename: C-b2c2-604-10006310-nsd-CombinedServicesPlanSheet3.dwg

Project

SHELL COVE
PRECINCT B2 AND C2

Title

COMBINED SERVICES PLAN
SHEET 3

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100mm on Original