



# AGENDA

A **Meeting** of the **Traffic Committee** will be held on Cammeraygal Land at the Council Chambers, 200 Miller Street, North Sydney at 10:00 AM on Friday 17 March 2023.  
The agenda is as follows.

Therese Manns  
**GENERAL MANAGER**



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## **1. Confirmation of Minutes**

The Minutes of the previous meeting held on 10 February 2023, copies of which had been previously circulated, were taken as read and confirmed.

## **2. Disclosures of Interest**

Nil.

## **3. Matters Arising from the Minutes**

Nil.

## **4. Matters Arising from Council Resolutions**

Nil.

## 5. Items for Consideration

### 5.1. Design Approval - West Street Cycling, Walking and Streetscape Upgrades

**AUTHOR:** Max White, Sustainable Transport Project Coordinator

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:**

1. Attachment A Concept Design Flyer [5.1.1 - 1 page]
2. Attachment B Civil Engineering Plan [5.1.2 - 26 pages]

**PURPOSE:**

The purpose of this report is for final approval of West Street Cycling, Walking and Streetscape Upgrades, Stage 1 designs in preparation for construction.

**EXECUTIVE SUMMARY:**

West Street Cycling, Walking and Streetscape Upgrades - Stage 1 (West Street Stage 1) will provide cycling, walking and streetscape upgrades along West Street between the Pacific Highway and Ridge Street, North Sydney.

On Monday 30 November 2023, Council resolved to proceed to tender and construction documentation stage and for the North Sydney Traffic Committee to approve the final designs.

This report provides the concept design flyer (Attachment A) and Civil Engineering Plan (Attachment B) for the Traffic Committee to review and approve.

**FINANCIAL IMPLICATIONS:**

The total estimated project cost is \$850,000 with \$800,000 (94.12%) from state funding and a \$50,000 (5.88%) Council contribution. Council has received an \$800,000 grant under the NSW Government's Get NSW Active Program 2022/23 for this project. The project funding that Council has received needs to be committed this financial year. \$50,000 of Council's money was allocated from the 2022/23 'Bike Facilities' budget towards the project.

The project is scheduled to commence construction this financial year

**RECOMMENDATION:**

**1. THAT** the North Sydney Traffic Committee approve the final designs for West Street Cycling, Walking and Streetscape Upgrades Stage 1.

## LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
  - 2.2 Vibrant public domains and villages
  - 2.3 Prioritise sustainable and active transport
  - 2.4 Efficient traffic mobility and parking
  
- 4. Our Social Vitality
  - 4.1 North Sydney is connected, inclusive, healthy and safe

## BACKGROUND

Council's North Sydney Integrated Cycling Strategy (2014) aims to deliver a cycling network accessible to people of all ages and cycling abilities and to enable more people in the community to choose cycling for day-to-day transport needs, particularly for short trips of between 2-5km. West Street Cycling, Walking and Streetscape Upgrades, Stage 1 (West Street Stage 1) forms part of the Strategy's Route 1: Sydney Harbour Bridge to Cammeray via West Street.

The final concept designs were publicly exhibited to the community from 4 October to 14 November 2022 and an outcomes report was provided to Council 30 November 2022. Council resolved for the North Sydney Traffic Committee to review and approve the final designs.

## CONSULTATION REQUIREMENTS

Community engagement has occurred in accordance with Council's *Community Engagement Protocol*. The detail of this report provides the outcomes from the engagement for Council to consider prior to adoption.

**Relates to ECM No:** 9064987

**Standard or Guideline Used:** AS 2876 – Concrete kerbs and channels (gutters), AS 1428 – Design for access and mobility, AS 1657 – Fixed Platforms, walkways, stairways and ladders, AS 1742 – Traffic Control Devices, AS 1743 – Road Signs, AS 3500.3 – Plumbing and drainage – Stormwater Drainage, RMS Supplements to the Australian Standards and Austroads guidelines, RMS Delineation, RMS Traffic Sign Database, RMS Technical Directions, North Sydney Council Infrastructure Specifications, North Sydney Council Public Domain Style Manual and Design Codes, Guide to Road Design Part 6A: Paths for Walking and Cycling, Transport for NSW Cycleway Design Toolbox

**Signs & Lines Priority:** N/A

**Precinct and Ward:** Stanton Precinct, Hayberry precinct, Cammeraygal Ward, St Leonards Ward

**Impact on Bicycles:** Separated cycleway will have a positive impact on cyclist user experience and safety.

**Impact on Pedestrians:** Additional pedestrian crossings, pavement upgrades will have a positive impact on cyclist user experience and safety.

**Impact on Parking:** There is no parking loss associated with the project.

## DETAIL

West Street Stage 1 will deliver upgrades to cycling and walking infrastructure as well as streetscape improvements. It is located along West Street, North Sydney, between Pacific Highway and Ridge Street.



FIGURE 1. Existing cycleway along Ridge Street in blue, shared path along Hazelbank Place in green, West Street Stage 2 in dashed red, future priority route links in dashed purple and West Street Stage 1 in solid red line

A 42-day public exhibition period was held 4 October to 14 November 2022 to ensure widespread stakeholder awareness of the opportunity to provide feedback on the plan. A total of 92 submissions were received. Outcomes included:

- 83 (90%) indicated support for the project, 8 (9%) opposed the project, 1 (1%) were neutral.
- 50 (54%) of submissions came from residents/businesses within the North Sydney LGA. Of these submissions, 42 (84%) supported the project, 7 (14%) opposed the project and 1 (2%) were neutral.
- 10 comments were made on the interactive map from 7 participants.

An outcomes report was taken to 30 November 2022 Council meeting (Item 10.4. West Street Cycling, Walking and Streetscape Upgrades Stage 1 - Consultation Outcomes) and it was resolved that:

1. *THAT Council notes the outcome of the community consultation undertaken for this project (West Street Cycleway - Stage 1).*
2. *THAT Council proceeds to tender and construction documentation stage for West Street Cycleway - Stage 1.*
3. *THAT the final detailed design for the project be subject to approval of the North Sydney Traffic Committee.*

As per resolution 3, this report provides the concept design flyer (Attachment A) and Civil Engineering Plan (Attachment B) for North Sydney Traffic Committee approval.

## Timeline

### Next Steps



### Conclusion

Community feedback indicates strong support for West Street Stage 1 design. The proposed route is consistent with Council's Integrated Cycling Strategy (2014) and deliver a key section of 'Priority Route 1' project as well as anticipated improvements to the broader walking and cycling network.

It is recommended that the North Sydney Traffic Committee approve the final concept designs and civil engineering documentation for West Street Stage 1 for construction to begin May 2023.



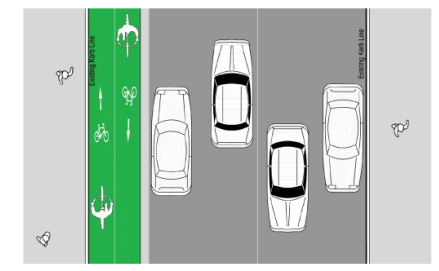
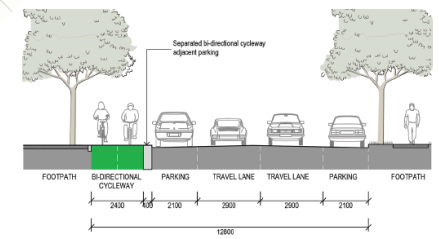
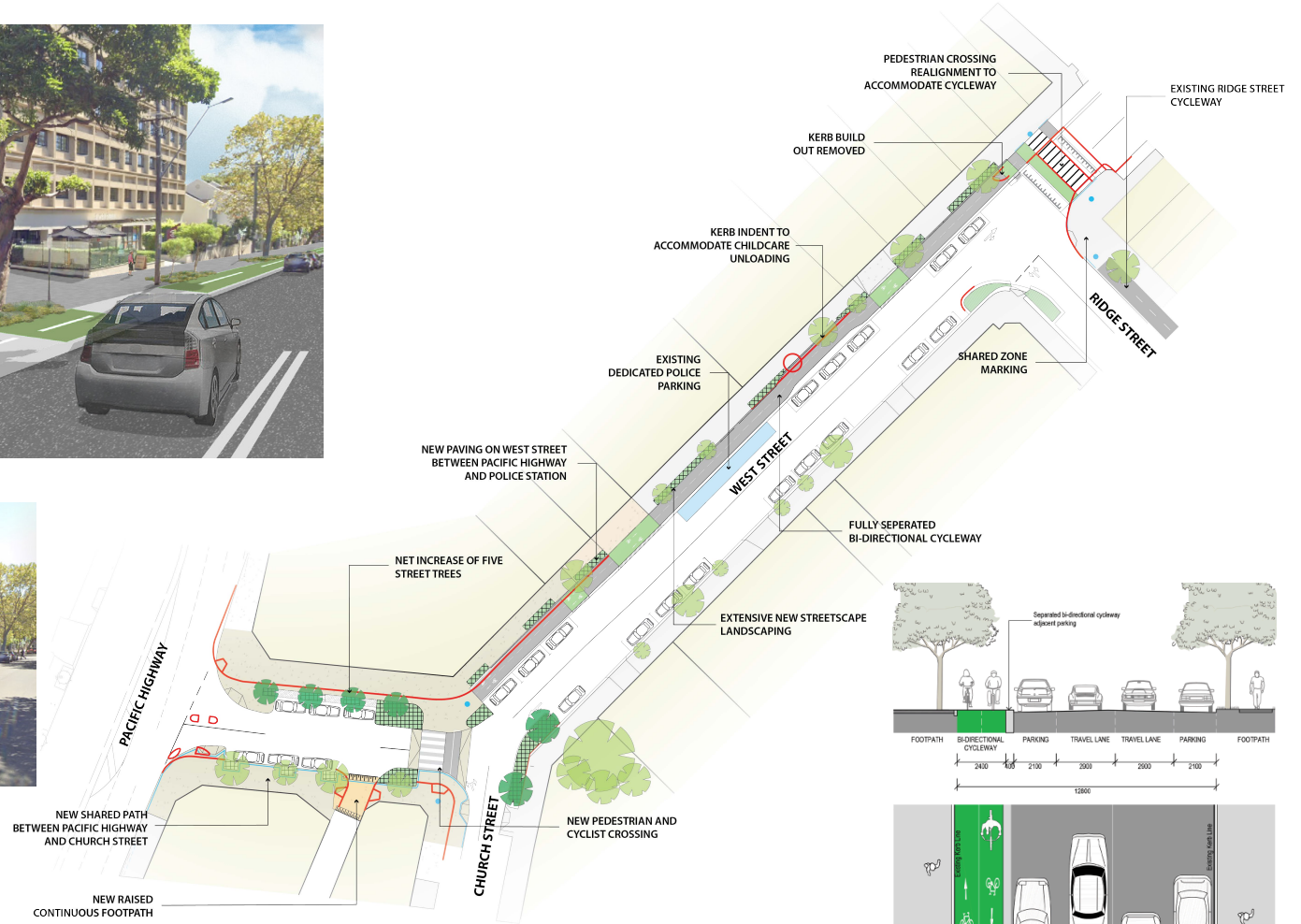
# WEST STREET CYCLING, WALKING AND STREETScape UPGRADES



PROPOSED CONDITIONS LOOKING NORTH TOWARDS RIDGE STREET



EXISTING CONDITIONS LOOKING NORTH TOWARDS RIDGE STREET



TYPICAL SECTION SEPERATED CYCLEWAY



**TREE COVERAGE**

LOSS	GAIN	TOTAL
-1	+6	+5



**PARKING**

THERE IS NO PARKING LOSS ASSOCIATED WITH THESE WORKS

**LEGEND**

EXISTING ITEM TO BE REMOVED	NEW GARDEN BED	EXISTING TREE RETAINED	NEW PAVEMENT	EXISTING CAR PARKING
SEPERATED CYCLEWAY	EXISTING GARDEN BED	PROPOSED TREE	EXISTING FOOTPATH	
CYCLEWAY ACROSS ACCESS POINT	RAISED CONTINUOUS FOOTPATH	REMOVED TREE	SHARED PATH	





# WEST STREET ACTIVE TRANSPORT - STAGE 1

## PACIFIC HIGHWAY TO RIDGE STREET, NORTH SYDNEY

### CIVIL ENGINEERING PLANS

DRAWING LIST	
DWG No.	DESCRIPTION
C1.001	COVER SHEET
C1.101	GENERAL NOTES
C1.201	TYPICAL DETAILS - SHEET 1
C1.202	TYPICAL DETAILS - SHEET 2
C1.203	TYPICAL DETAILS - SHEET 3
C1.204	TYPICAL DETAILS - SHEET 4
C1.205	TYPICAL DETAILS - SHEET 5
C1.206	TYPICAL DETAILS - SHEET 6
C1.207	TYPICAL DETAILS - SHEET 7
C1.208	TYPICAL DETAILS - SHEET 8
C1.301	OVERALL LAYOUT KEY PLAN
C3.001	SITWORKS PLAN - SHEET 1
C3.002	SITWORKS PLAN - SHEET 2
C3.003	SITWORKS PLAN - SHEET 3
C3.101	SIGNAGE AND LINEMARKING PLAN - SHEET 1
C3.102	SIGNAGE AND LINEMARKING PLAN - SHEET 2
C3.103	SIGNAGE AND LINEMARKING PLAN - SHEET 3
C5.101	TYPICAL ROAD SECTIONS AND DETAILS
C5.301	ROAD CROSS SECTIONS - SHEET 1
C5.302	ROAD CROSS SECTIONS - SHEET 2
C6.001	PAVEMENT PLAN - SHEET 1
C6.002	PAVEMENT PLAN - SHEET 2
C6.003	PAVEMENT PLAN - SHEET 3
C8.001	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1
C8.002	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
C8.003	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 3
C8.101	SOIL EROSION AND SEDIMENT CONTROL - NOTES AND DETAILS



**EXISTING SERVICES NOTE:**  
 EXISTING SERVICE ALIGNMENTS HAVE BEEN PLOTTED UTILISING INFORMATION OBTAINED FROM DIAL BEFORE YOU DIG AND ALL ALIGNMENTS ARE APPROXIMATE.  
 EXISTING POWER POLES AND OVERHEAD ELECTRICITY, HAVE BEEN PLOTTED FROM ON SITE INSPECTION AND ARE APPROXIMATE.  
 THE CONTRACTOR IS TO DETERMINE LOCATION AND DEPTH OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK

DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

NOT FOR CONSTRUCTION

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Issue	Description	Date	Checked	Approved
F	ISSUE FOR TENDER	28.02.23	UF	VG
E	ISSUE FOR CLIENT REVIEW	23.02.23	UF	VG
D	ISSUED FOR 100%	15.11.21	RD	VG
C	ISSUE FOR INFORMATION	08.09.21	RP	VG



**Client**  
**NORTH SYDNEY COUNCIL**  
 200 MILLER STREET  
 NORTH SYDNEY, NSW 2060  
 PHONE: 02 9638 8100

**Architect**  
**GROUP GSA**  
 LEVEL 7, 80 WILLIAM STREET  
 EAST SYDNEY, NSW 2011  
 PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**ACOR Consultants Pty Ltd**  
 Suite 2, Level 1, 33 Herbert Street  
 St Leonards NSW 2065  
 T +61 2 9438 5095

**ACOR CONSULTANTS** ENGINEERS MANAGERS INFRASTRUCTURE PLANNERS DEVELOPMENT CONSULTANTS

**Project**  
**WEST STREET ACTIVE TRANSPORT**  
 PACIFIC HIGHWAY TO RIDGE STREET  
 NORTH SYDNEY, NSW 2060

Drawing Title					
COVER SHEET					
Drawn	Date	Scale	AT	D.A. Check	Date
ROB	JUNE 2021	NOT TO SCALE			
Checked	Project No.	Draw No.	Issue		
VG	NSW20072	001	F		

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL LANDSCAPE AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKSMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARYED BY THE CONTRACT DOCUMENTS.
- THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE PRINCIPAL BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE PRINCIPAL BEFORE THE WORK COMMENCES.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE PRINCIPAL FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. ALL INSPECTIONS AND CERTIFICATIONS TO BE INCLUDED IN CONTRACTORS COST.
- BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- REFER TO GROUP GSA DRAWINGS ?????? SERIES FOR DEMOLITION WORKS.
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RELEVANT CURRENT WORKPLACE HEALTH AND SAFETY LEGISLATION.
- THE CONSTRUCTION CONTRACTOR SHALL COORDINATE WITH THE ADJACENT SCHOOL AND BUSINESSES TO STAGE AND UNDERTAKE WORKS AS NOT TO CAUSE INCONVENIENCE TO THOSE ENTITIES AND MINIMISE DISTURBANCE TO THE ACCESS AND OPERATIONS OF THOSE ENTITIES.
- THE CONSTRUCTION CONTRACTOR SHALL KEEP INFORMED ALL RESIDENTS ADJACENT THE WORKSITES OF CONSTRUCTION ACTIVITIES THAT MAY AFFECT THE EXISTING ACCESS TO THEIR PROPERTIES AND MINIMISE DISTURBANCE TO THE EXISTING ACCESS TO THEIR PROPERTIES.
- ALL DESIGN TRAFFIC LOADINGS (ESA4) HAVE BEEN BASED UPON NORTH SYDNEY CITY COUNCIL'S DESIGN CRITERIA FOR THE DEFINED ROAD CATEGORY - CONTRACTOR TO CONFIRM DESIGN ESA4 WITH COUNCIL PRIOR TO COMMENCEMENT OF THE WORKS AND TO NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES.

EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA AS DIRECTED OTHERWISE BY THE PRINCIPAL.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE PRINCIPAL. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPAL.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL AND ASSET OWNER. CONTRACTOR TO GAIN APPROVAL OF PRINCIPAL AND ASSET OWNER FOR TIME OF INTERRUPTION.

TRAFFIC CONTROL MANAGEMENT

- TRAFFIC CONTROL IS TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE RMS TRAFFIC CONTROL AT WORKSITES (TCAWS) MANUAL AND AS1423
- THE CONSTRUCTION CONTRACTOR SHALL ASSESS AND MANAGE APPROPRIATELY THE INTERFACE BETWEEN ALL ROAD USERS (PEDESTRIANS, CYCLISTS AND MOTORISTS) AND THE SITE OPERATIONS INCLUDING ACCESS AND EGRESS.

SITWORKS NOTES

- ORIGIN OF LEVELS - AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO MINIMUM 98% STANDARD DRY DENSITY IN ACCORDANCE WITH AS 1298.5.1.1.
- ALL TRENCH BACKFILL MATERIAL, NOT SUBJECT TO VEHICULAR LOADS SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100mm TOPSOIL AND KIKUYU LAID AS TURF.
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH LANDSCAPE PLANS, DRAWINGS AND SPECIFICATIONS.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800 Ø PVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
- ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

SIGNAGE AND LINE MARKING

- TO ELIMINATE EXCESSIVE GLARE FROM THE SURFACE OF A SIGN IT SHOULD BE TURNED APPROXIMATELY 5° AWAY FROM THE NORMAL TO THE HEADLIGHT BEAM LINE OF SIGHT.
- ALL SIGNAGE TO BE CLEAR OF ALL VEGETATION AND OBSTRUCTIONS.
- SIGNS TO BE INSTALLED IN ACCORDANCE WITH AS1472.
- THE LOCATION OF ALL EXISTING SIGNS TO BE CONFIRMED PRIOR TO COMMENCING WORK. ENSURE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL SIGNS.
- CONDITION ASSESSMENT TO BE UNDERTAKEN ON ALL EXISTING SIGN FACES TO BE RELOCATED PRIOR TO BEING REUSED IN ACCORDANCE WITH RELEVANT SPECIFICATIONS AND STANDARDS AS DIRECTED BY THE PRINCIPAL.
- ALL EXISTING LINE MARKING EFFECTED BY THE NEW WORKS AND NOT OTHERWISE CONFLICTING WITH PROPOSED LINE MARKING IS TO BE REINSTATED.
- FOR REMOVAL OF LINE MARKING REFER TO RMS DELINEATION GUIDELINE SECTION 14.
- SIGNAGE AND LINE MARKING PLANS TO BE READ IN CONJUNCTION WITH APPROVED TCS DRAWINGS.

COMPACTION NOTES

- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE PRINCIPAL.
- WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE PRINCIPAL. REFER TO SPECIFICATION FOR DETAILS.
- ALL SORT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE PRINCIPAL AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE PRINCIPAL AND SHALL COMPLY WITH THE FOLLOWING:
  - FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
  - MAXIMUM PARTICLE SIZE 20mm
  - PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ or - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1298.5.1 OF NOT LESS THAN THE FOLLOWING STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1298.5.1.1:
 

LOCATION	STANDARD MAXIMUM DRY DENSITY (SMDD)
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	98%
LANDSCAPED AREAS	95%

- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE. FREQUENCY OF TESTING TO AS3798 TABLE 8.1
- THE SUBGRADE MUST BE PRESENTED TO THE PRINCIPAL FOR INSPECTION AND SHALL CONSTITUTE A HOLD POINT PRIOR TO CONSTRUCTION OF THE PAVEMENT. SUBGRADE INSPECTION AT CONTRACTORS EXPENSE

JOINTING NOTES

- VEHICULAR PAVEMENT JOINTING
- ALL VEHICULAR PAVEMENT TO BE JOINTED AS SHOWN ON DRAWINGS.
  - KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTERS.
  - WEARING COURSE LONGITUDINAL JOINT SHALL BE LOCATED WITHIN ±25mm OF LINE MARKING OR IN THE CENTER OF A LANE.
  - LONGITUDINAL JOINT IN ASPHALT LAYERS SHALL BE OFFSET 150mm MINIMUM FROM JOINTS IN UNDERLYING LAYER.
- PEDESTRIAN FOOTPATH JOINTING
- ALL PEDESTRIAN FOOTPATH JOINTING LAYOUTS AS PER NORTH SYDNEY COUNCIL STANDARD CONCRETE FOOTPATH DETAIL - S104

NORTH SYDNEY COUNCIL SPECIFICATION

ALL WORKS SHALL COMPLY WITH NORTH SYDNEY COUNCIL'S INFRASTRUCTURE SPECIFICATION FOR ROADWORKS, DRAINAGE AND MISCELLANEOUS WORK\*

ASPHALTIC CONCRETE NOTES

- GENERAL
  - MINERAL AGGREGATES TO COMPLY WITH AUSTRALIAN STANDARDS
  - MINERAL FILLER TO COMPLY WITH AS 2357 MINERAL FILLERS OR ASPHALT.
  - BITUMEN BINDER SHALL COMPLY WITH AS 2008
  - BITUMEN BINDER CLASS CS30 SHALL BE USED FOR WEARING COURSE ASPHALT CONCRETE MIXES UNO
- MIX PROPORTIONS
  - JOB MIX - 19mm NOMINAL SIZE AGGREGATE. MINIMUM BITUMEN CONTENT BY MASS OF TOTAL MASS - 5.1%
  - MIX STABILITY - BETWEEN 18N AND 38N AS DETERMINED BY AS 2891
  - AIR VOIDS IN COMPACTED MIX - BETWEEN 4% AND 7% OF THE VOLUME OF THE MIX.
  - VOIDS FILLED IN BINDER - 65-80% OF AIR VOIDS IN THE TOTAL MINERAL AGGREGATE FILLED BY BINDER IN ACCORDANCE WITH AUSTRALIAN STANDARDS
- PAVEMENT PREPARATION
  - THE EXISTING SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL FOREIGN MATTER.
  - ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT UP TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING OF MAIN COURSE.
- TACK COAT
  - THE WHOLE OF THE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COATED WITH RAPID SETTING BITUMEN COMPLYING WITH AUSTRALIAN STANDARDS. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.30 LITRES/SQUARE METRE. APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH SPRAY BAR.
- SPREADING
  - ALL ASPHALTIC CONCRETE SHALL BE SPREAD WITH A SELF PROPELLED PAVING MACHINE
  - THE ASPHALTIC CONCRETE SHALL BE LAID AT A MIX TEMPERATURE AS SHOWN BELOW.

ROAD SURFACE TEMPERATURE IN SHADE (°C)	MIX TEMPERATURE (°C)
5 - 10	NOT PERMITTED
10 - 15	150
15 - 25	145
OVER 25	140

  - ASPHALTIC CONCRETE SHALL NOT BE LAID WHEN THE ROAD SURFACE IS WET OR WHEN COLD WINDS CHILL THE MIX ADVERSELY AFFECT SPREADING AND COMPACTION.
  - THE MINIMUM COMPACTED THICKNESS IS 30mm OVER EXISTING SEALED PAVEMENTS AND 50mm OVER NEW PAVEMENTS.
- JOINTS
  - THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE SHALL BE KEPT TO A MINIMUM
  - THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.
- COMPACTION
  - ALL COMPACTION SHALL BE UNDERTAKEN USING SELF PROPELLED ROLLERS
  - INITIAL ROLLING SHALL BE COMPLETE BEFORE THE MIX TEMPERATURE FALLS BELOW 100°C
  - SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MIX TEMPERATURE FALLS BELOW 60°C
  - MINIMUM CHARACTERISTICS VALUE OF RELATIVE COMPACTION OF A LOT WHEN TESTED IN ACCORDANCE WITH AS1250
- FINISHED PAVEMENT PROPERTIES
  - FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10mm FROM THE SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3m STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5mm.

CONCRETE NOTES

- GENERAL
- ALL WORKSMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3600 CURRENT EDITIONS WITH AMENDMENTS, AND THE ACSE CONCRETE SPECIFICATION EXCEPT WHERE VARYED BY THE CONTRACT DOCUMENTS.
  - VERIFY ALL SETTING OUT DIMENSIONS WITH THE SURVEYOR.
  - DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS.
  - IN CASE OF DOUBT - ASK.
- DESIGN LOADS
- N/A
- CONCRETE
- NOT WITH STANDING RCC STANDARD DRAWING DETAILS FOR CONCRETE TARGET COMPRESSIVE STRENGTH. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH F<sub>CD</sub> AS DEFINED IN AS 3600 OR M.R. FORM 609. ADD WATER REDUCING ADMIXTURE EQUAL TO WRA4.
- | LOCATION            | AS 3600 F <sub>CD</sub> MPa AT 28 DAYS | SPECIFIED SLUMP | NOMINAL AGG. SIZE |
|---------------------|--|-----------------|-------------------|
| ALL KERB PITTS ETC. | 32                                     | 80              | 20                |
| VEHICULAR PAVEMENTS | 32                                     | 80              | 20                |
| PEDESTRIAN FOOTPATH | 32                                     | 80              | 20                |
- USE GENERAL PURPOSE PORTLAND CEMENT UNLESS OTHERWISE AGREED WITH COUNCIL.
  - ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS 3600.
  - CONSOLIDATE BY VIBRATION
- REINFORCEMENT
- REFER TO DETAILS SHEET FOR REINFORCEMENT.
  - MINIMUM COVER FOR REINFORCEMENT TO BE 40mm UNLESS OTHERWISE NOTED.
- CURING
- CURING OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600 AND SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS.
  - CURING SHALL BE CONTINUAL SATURATION WITH POTABLE WATER FOR 3 DAYS FOLLOWED BY PREVENTION OF MOISTURE LOSS FOR THE NEXT 4 DAYS USING POLYTHENE SHEETING OR WET HESSIAN PROTECTED BY WIND OR TRAFFIC AND THEN ALLOWING GRADUAL DRYING OUT.
  - CURING COMPOUNDS MAY BE USED PROVIDED THAT THEY COMPLY WITH AS3799 AND NOT AFFECT THE PROPOSED FINISH.
  - THE COMPATIBILITY OF CURING COMPOUNDS WITH THE PROPOSED FINISH AND OTHER CONCRETE ADMIXTURES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING AND APPLICATION.
  - CURING COMPOUNDS ARE APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. PVA-BASED CURING COMPOUNDS ARE NOT ACCEPTABLE.
  - CURING SHALL BE UNDERTAKEN BY AN EXPERIENCED CONTRACTOR FAMILIAR WITH THE PROPOSED COMPOUNDS AND THE MANUFACTURER'S SPECIFICATIONS.
  - WHERE SHADE TEMPERATURES EXCEEDS 30°C, SPRAY THE EXPOSED SURFACE OF THE CONCRETE PAVEMENT / SLAB DURING THE PHASE OF FINISHING OPERATION WITH A FINE FILM OR APPROVED ALIPHATIC ALCOHOL. REPEAT THE SPRAY IF THE SPRAY SURFACE HAS BEEN RE-WORKED.
  - ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON-SITE PRIOR TO CONCRETE WORKS.

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E	ISSUE FOR CLIENT REVIEW	23.02.23	UF <td>VG</td> <td></td>	VG	
D	ISSUED FOR 100%	15.11.21	RD	VG	
C	ISSUE FOR INFORMATION	08.09.21	RF	VG	
Issue	Drawn	Checked	Approved		

Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9362 8100

Architect  
**GROUPSA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

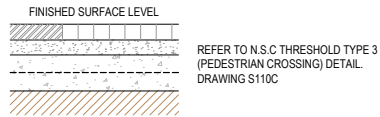
ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098  
**ACOR CONSULTANTS** ENGINEERS MANAGERS INFRASTRUCTURE PLANNERS DEVELOPMENT CONSULTANTS

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

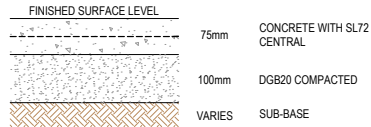
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**GENERAL NOTES**

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ROB	JUNE 2021	NOT TO SCALE			
Checked					
VG					

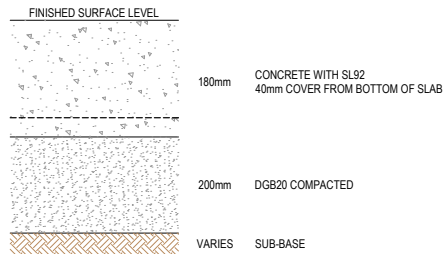
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Issue **1.0**



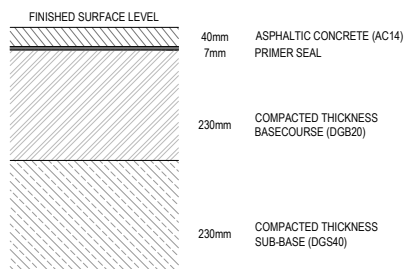
**PAVEMENT TYPE - RC RAISED CROSSING**



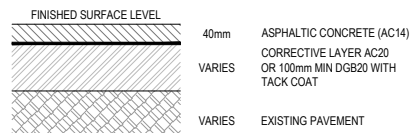
**PAVEMENT TYPE - FP FOOTPATH**  
REFER TO NORTH SYDNEY COUNCIL STANDARD DRAWING S104A



**PAVEMENT TYPE - DW DRIVEWAY**  
REFER TO NORTH SYDNEY COUNCIL STANDARD DRAWING S101A



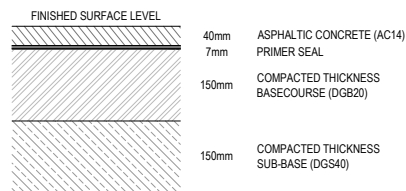
**ROAD PAVEMENT TYPE - RP**  
ASSUMED CBR 3%, ADOPTED ESA 4 x 10<sup>5</sup>



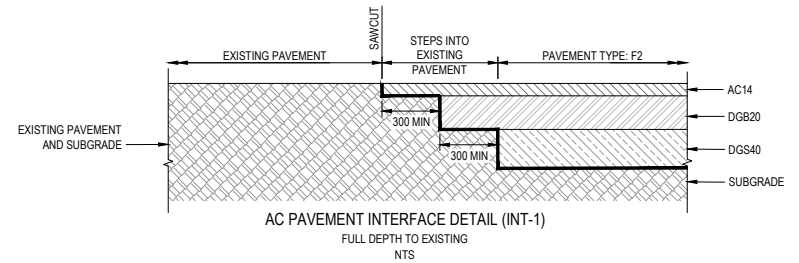
**PAVEMENT TYPE - M&C MILL AND CORRECTION**

**SPECIFICATIONS.**

- SLAB THICKNESS AND REINFORCEMENT**  
RESIDENTIAL: SINGLE DWELLING - 130mm SL72 REO MESH.  
MULTIPLE DWELLING - 180mm SL72 REO MESH.  
COMMERCIAL: 180mm SL92 REO MESH. (TO BE LOCATED WITH 40mm COVER FROM BOTTOM OF SLAB).  
ALL CONCRETE F'c32 MPa.
- BASE COURSE**  
CONSOLIDATED FINE CRUSHED ROCK TO COUNCILS SPECIFICATION
- CONCRETE FINISH**
  - ALL EDGES BE TOOL FINISHED WITH 12mm RAD 50mm WIDE EDGING TOOL
  - GUTTER & LAYBACK SHALL BE FINISHED WITH A STEEL TROWEL
  - DRIVEWAY SLAB TO BE FINISHED WITH WOOD FLOAT.
- EXPANSION JOINTS**  
EXPANSION JOINTS SHALL BE PLACED AT 6m INTERVALS  
CONTRACTORS SHALL CONFORM TO COUNCILS STANDARD CONDITIONS OF APPROVAL FOR CONSTRUCTION OF VEHICULAR CROSSING/CONCRETE FOOTPATHS AND TO LINE LEVEL AND GRADE FIXED BY COUNCIL
- SITE OF WORK**  
DURING AND ON COMPLETION OF WORK, ALL EXCAVATED MATERIAL FROM THE SITE SHALL BE REMOVED AND THE SITE KEPT IN A CLEAN, SAFE AND TIDY CONDITION TO THE SATISFACTION OF COUNCIL'S ENGINEER.
- ALL PLAN DIMENSIONS ARE IN MILLIMETRES. UNLESS NOTED OTHERWISE.**
- AC10mm ADJUSTMENT**  
PROVIDE 600mm WIDE AC10 CORRECTION COURSE LAYER 50mm WHEN CONSTRUCTING NEW KERB IN EXISTING AC PAVEMENT



**PAVEMENT TYPE - CW**  
ASSUMED CBR 3%, ADOPTED ESA 3 x 10<sup>5</sup>



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Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

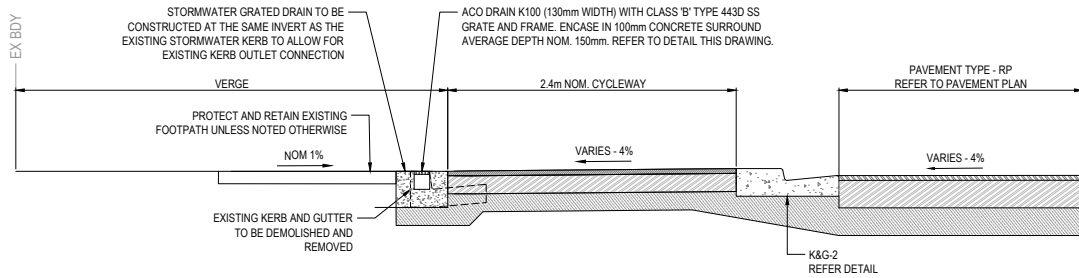
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Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5098

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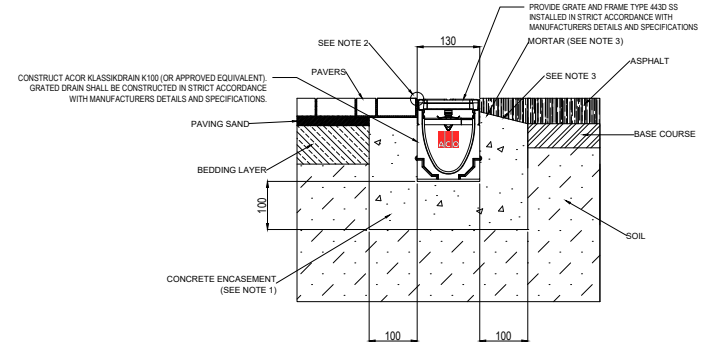
Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title				
TYPICAL DETAILS SHEET 1				
Drawn	Date	Scale	A1	D.A. Check
ROB	JUNE 2021	NOT TO SCALE		
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VG	NSW200722		F	

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TYPICAL SECTION (CH70)  
RAISED CYCLEWAY ADJACENT TO NEW KERB ALIGNMENT  
NTS



TYPICAL K100 GRATED DRAIN DETAIL (EXCLUDING DRIVEWAYS)

- NOTES:
1. SPECIFIC SITE CONDITIONS MAY REQUIRE AN INCREASE IN CONCRETE ENCASEMENT DIMENSIONS AND/OR REINFORCEMENT. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THE CONCRETE ENCASEMENT IS DESIGNED FOR THE APPLICATION. A MINIMUM CONCRETE STRENGTH OF 25MPA IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS. *ENGINEERING ADVICE MAY BE REQUIRED.*
  2. THE FINISHED LEVEL OF THE PAVERS / ASPHALT MUST BE APPROXIMATELY 3mm ABOVE THE TOP OF THE CHANNEL EDGE.
  3. HAUNCH SLOPES AWAY AT A RATIO OF 1:4 OR APPROXIMATELY 15°.
  4. FOR FURTHER DETAILS, REFER TO ACO'S DESIGN & SITE INSTALLATION FILES AT [WWW.ACODRAIN.COM/RESOURCES](http://WWW.ACODRAIN.COM/RESOURCES).

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Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP GSA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**ACOR Consultants Pty Ltd**  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 9098

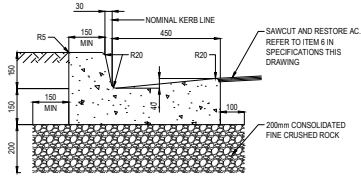
ENGINEERS MANAGERS INFRASTRUCTURE PLANNERS DEVELOPMENT CONSULTANTS

Project  
**WEST STREET ACTIVE TRANSPORT**  
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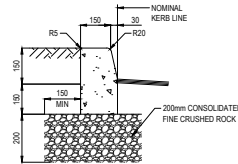
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Drawn	Date	Scale	A1	D.A. Check
ROB	JUNE 2021	NOT TO SCALE		
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VG	NSW200722		F	

NOTE: INSTALL ISOLATION JOINT AT BACK OF KERB WHEN ABUTTING CONCRETE PAVEMENT FOR FOOTPATH OR MEDIAN



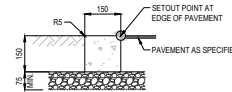
**KERB AND GUTTER 180 (K&G-1)**

SCALE 1:10  
NOTE: DETAIL AS PER NORTH SYDNEY COUNCIL BARRIER KERB (DRAWING No S1018)



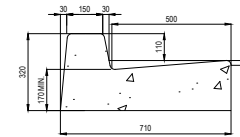
**CONCRETE KERB ONLY (KO-1)**

SCALE 1:10



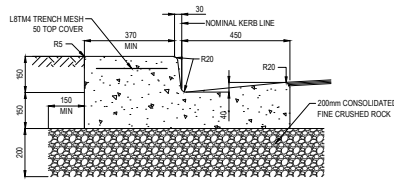
**FLUSH KERB (FK) - TYPE 1**

SCALE 1:10



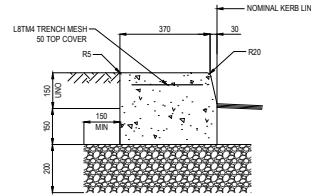
**RMS SA KERB**

SCALE 1:10  
NOTE: DETAIL AS PER RMS STD DRAWING R0300-01



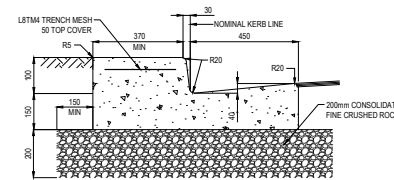
**KERB AND GUTTER 400 (K&G-2)**

SCALE 1:10



**CONCRETE KERB ONLY (KO-2)**

SCALE 1:10

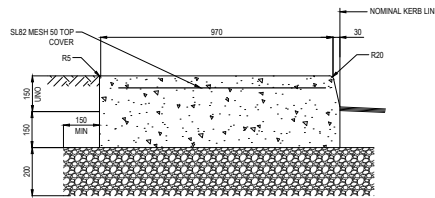


**KERB AND GUTTER 400 (K&G-4)**

SCALE 1:10

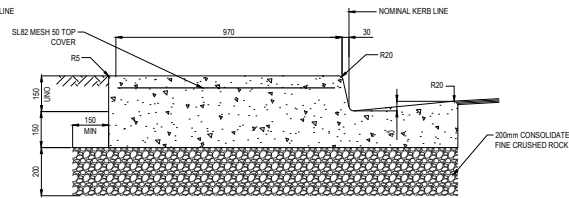
**SPECIFICATIONS**

- BASE COURSE**  
CONSOLIDATED FINE CRUSHED ROCK TO COUNCILS SPECIFICATION.
- CONCRETE FINISH**  
A. ALL EDGES BE TOOL FINISHED WITH 12mm RAD 50mm WIDE EDGING TOOL.  
B. GUTTER & LAYBACK SHALL BE FINISHED WITH A STEEL TROWEL.
- EXPANSION JOINTS**  
EXPANSION JOINTS SHALL BE PLACED AT 6m INTERVALS
- CONTRACTORS SHALL CONFORM TO COUNCILS STANDARD CONDITIONS OF APPROVAL FOR CONSTRUCTION OF VEHICULAR CROSSINGS/CONCRETE FOOTPATHS AND TO LINE LEVEL AND GRADE FIXED BY COUNCIL.**
- SITE OF WORK**  
DURING AND ON COMPLETION OF WORK ALL EXCAVATED MATERIAL FROM THE SITE SHALL BE REMOVED AND THE SITE KEPT IN A CLEAN, SAFE AND TIDY CONDITION TO THE SATISFACTION OF COUNCIL'S ENGINEER.
- AC10mm ADJUSTMENT**  
PROVIDE 60mm WIDE AC10 CORRECTION COURSE LAYER 50mm THICK AS SHOWN.
- RESTORATION OF TURF**  
RESTORE TURF & TOPSOIL AT COMPLETION OF WORK UP TO 1m BEHIND BACK OF KERB (REMOVE UNWANTED MATERIAL).



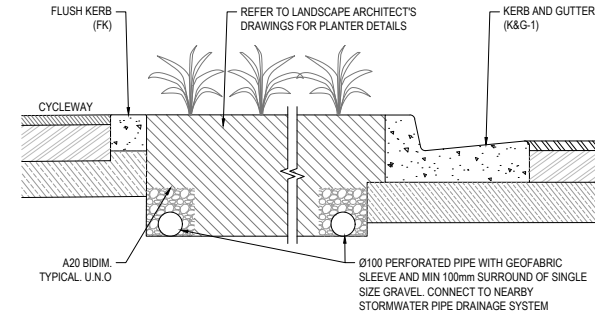
**CONCRETE KERB ONLY (KO-3)**

SCALE 1:10



**KERB & GUTTER 1000 (K&G-3)**

SCALE 1:10



**PLANTED MEDIAN WITH SSD OUTLET**

SCALE 1:10

SCALE 1:10 @ A1  
SCALE 1:20 @ A3

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

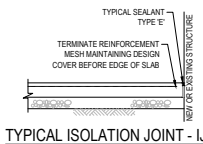
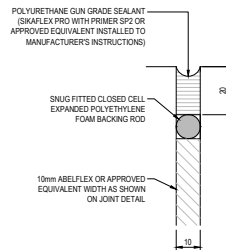
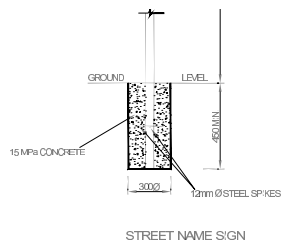
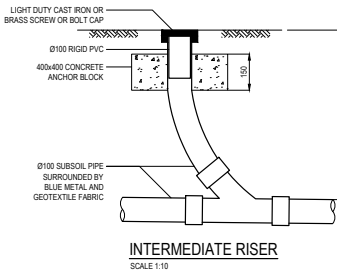
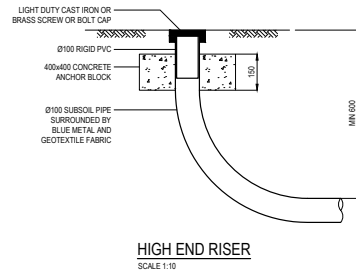
Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5066  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawn	Date	Scale	At	D.A. Check	Date
ROB	JUNE 2021	AS SHOWN			
VG					

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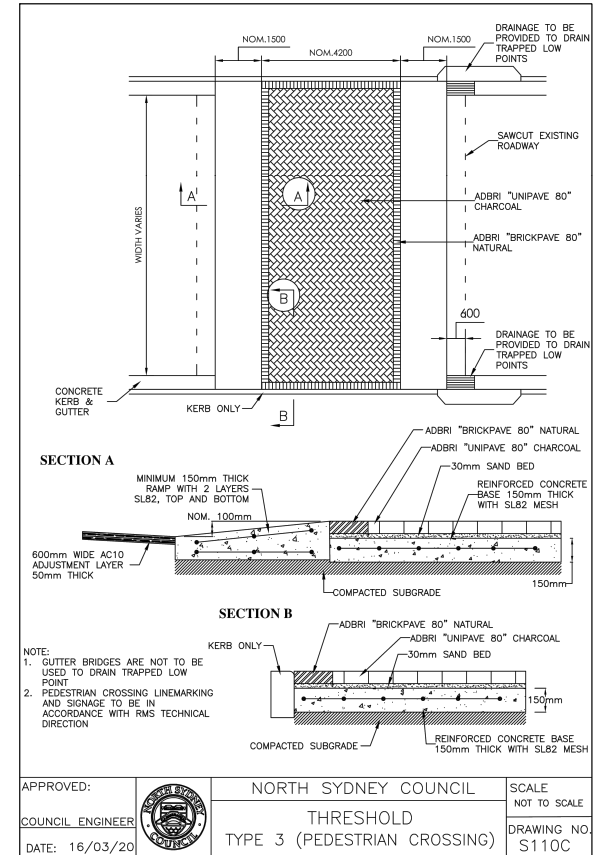
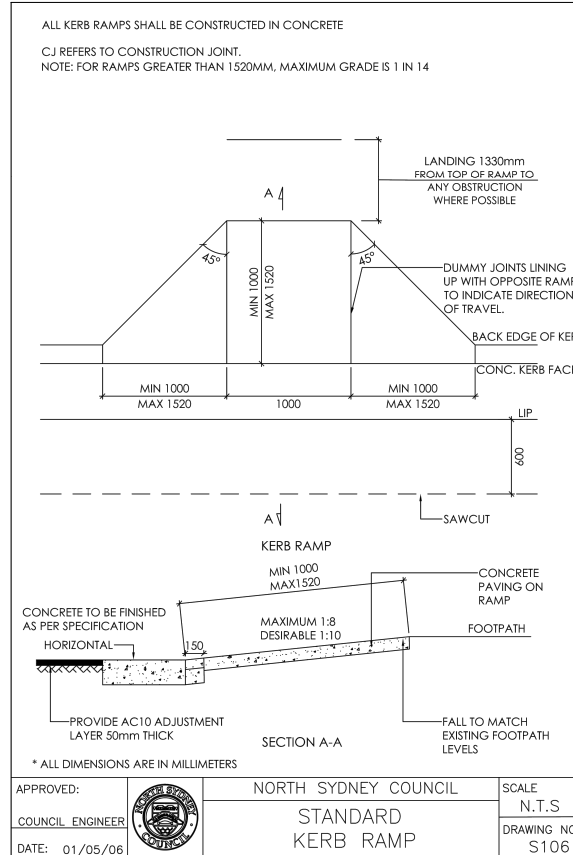
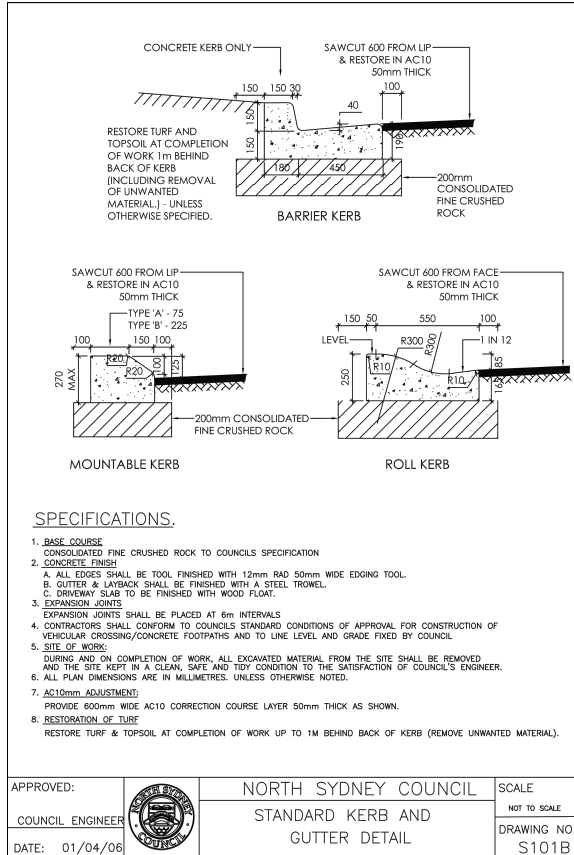
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**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**ACOR Consultants Pty Ltd**  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5066

**Project**  
WEST STREET ACTIVE TRANSPORT  
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Client  
**NORTH SYDNEY COUNCIL**  
 200 MILLER STREET  
 NORTH SYDNEY, NSW 2060  
 PHONE: 02 9938 8100

Architect  
**GROUP SA**  
 LEVEL 7, 80 WILLIAM STREET  
 EAST SYDNEY, NSW 2011  
 PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
 Suite 2, Level 1, 33 Herbert Street,  
 St Leonards NSW 2065  
 T +61 2 9438 5098

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**WEST STREET ACTIVE TRANSPORT**  
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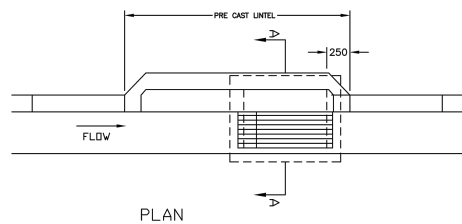
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 Date: 16/03/20

APPROVED: COUNCIL ENGINEER DATE: 17/03/20

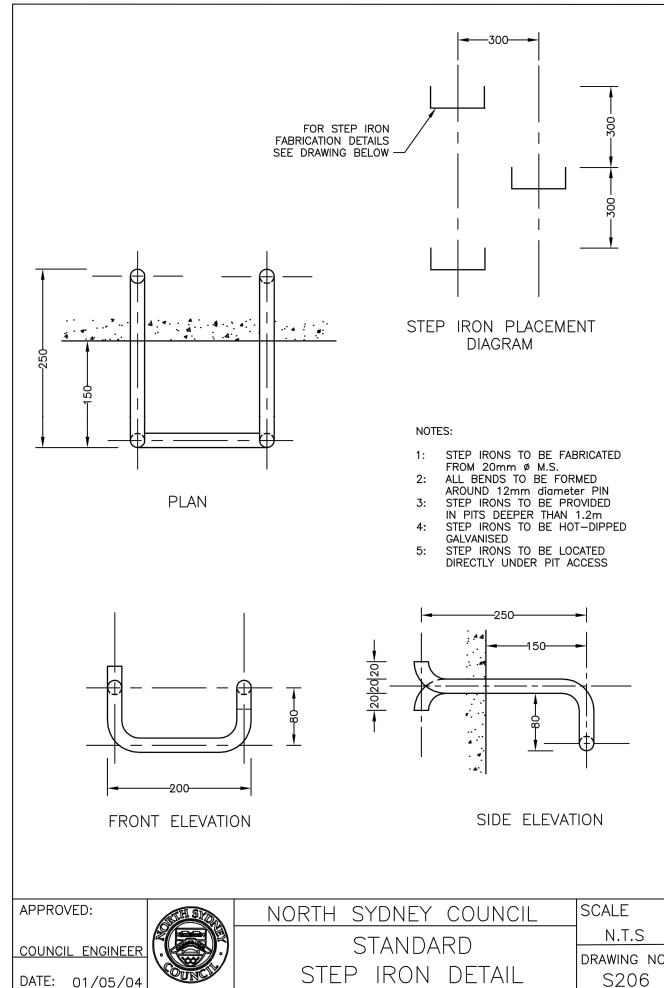
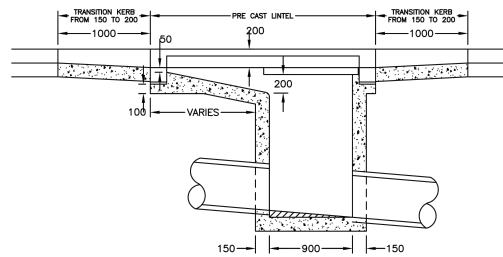
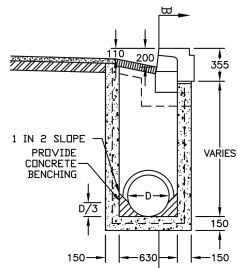
NORTH SYDNEY COUNCIL  
STANDARD GRATED GULLY PIT WITH PRE-CAST EKI

SCALE: N.T.S.  
DRAWING NO. S203



NOTES:

1. MAXIMUM PIPE  $\phi$  IS 600mm
2. COMPRESSIVE STRENGTH  $F_c$  FOR CAST IN SITU CONCRETE TO BE MINIMUM 32 MPa AT 28 DAYS
3. COVER TO BE WELDLÖK GG500 OR APPROVED EQUIVALENT
4. PROVIDE SL82 MESH CENTRALLY PLACED TO WALLS AND BASE FOR ALL PITS  $\geq$  1500 DEEP. MINIMUM 50 COVER. RETURN MESH MIN 300 INTO BASE AND SIDES.
5. PIT NOT TO EXCEED 2500 IN DEPTH
6. STEP IRONS TO BE PROVIDED FOR PITS GREATER THAN 1200 DEEP REFER TO S206.
7. ALL PIPES SHALL BE AS SPECIFIED ON PLANS AND SHALL BE STEEL REINFORCED.
8. PROVIDE A 2m LENGTH SLOTTED AG-PIPE WITH FILTER SOCK AT THE UPSTREAM END OF THE PIT.
9. ALL PITS ARE TO BE CAST IN-SITU UNLESS DIRECTED OTHERWISE



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E	ISSUE FOR CLIENT REVIEW	23.02.23	UF	VG
D	ISSUE FOR 100%	15.11.21	RD	VG
C	ISSUE FOR INFORMATION	08.09.21	RP	VG

Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**ACOR Consultants Pty Ltd**  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 9066

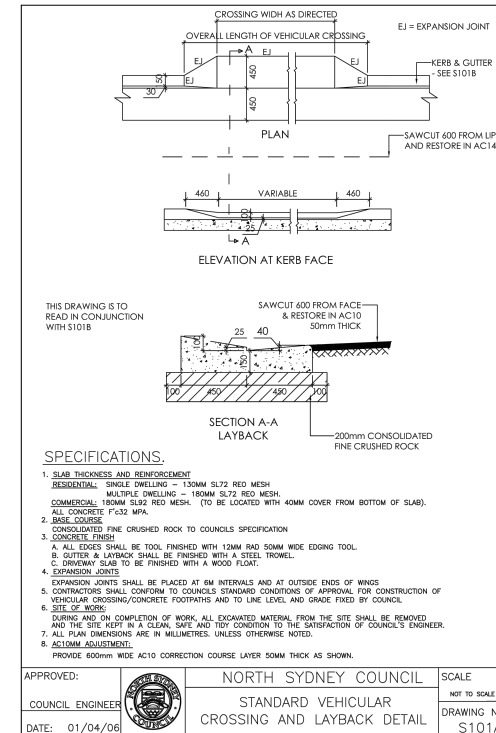
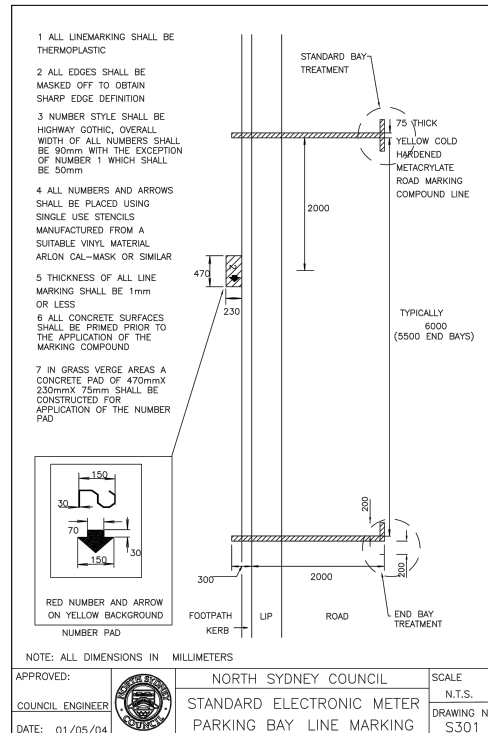
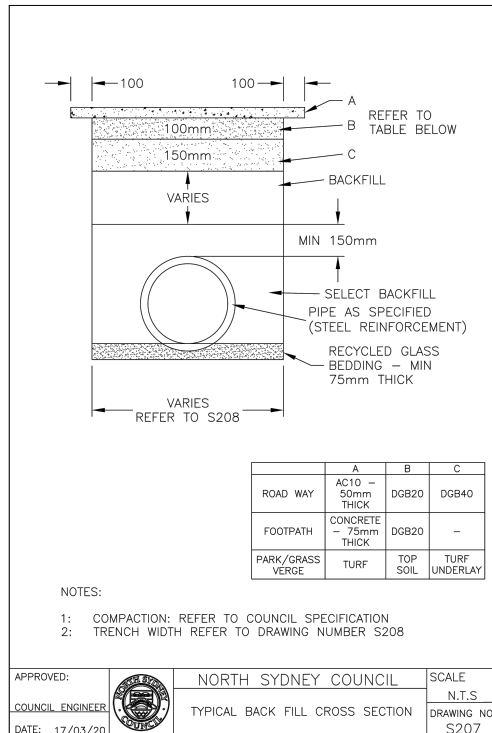
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Project  
**WEST STREET ACTIVE TRANSPORT**

Drawn	Date	Scale	AT	G.A. Check	Date
ROB	JUNE 2021	NOT TO SCALE			
Checked	Project No.	Draw No.	Issue		
VG	NSW200722	6	F		

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200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
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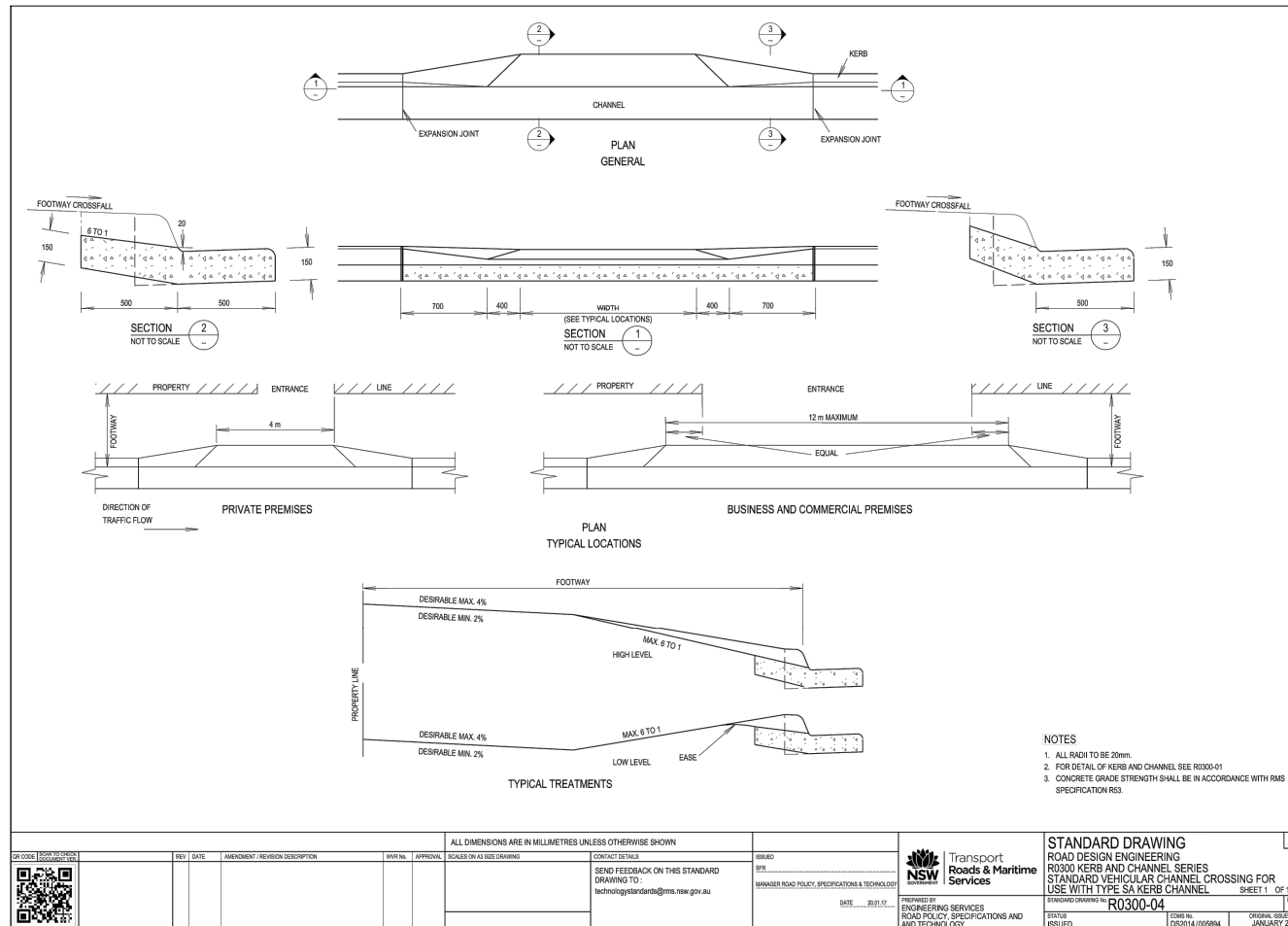
Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 9098  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Project  
**WEST STREET ACTIVE TRANSPORT**

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Drawn	Date	Scale	AT	G.A. Check	Date
ROB	JUNE 2021	NOT TO SCALE			
Checked	Project No.	Draw No.	Issue		
VG	NSW200772				



- NOTES**
1. ALL RADI TO BE 20mm.
  2. FOR DETAIL OF KERB AND CHANNEL SEE R0300-01
  3. CONCRETE GRADE STRENGTH SHALL BE IN ACCORDANCE WITH RMS SPECIFICATION R3.

QR CODE:				ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN				CONTACT DETAILS SEND FEEDBACK ON THIS STANDARD DRAWING TO: technologystandards@rms.nsw.gov.au				REVISIONS NO. DATE DESCRIPTION				<b>STANDARD DRAWING</b> ROAD DESIGN ENGINEERING R0300 KERB AND CHANNEL SERIES STANDARD VEHICULAR CHANNEL CROSSING FOR USE WITH TYPE SA KERB CHANNEL SHEET 1 OF 1 R0300-04 DATE: 2021-17 PREPARED BY: ENGINEERING SERVICES ROAD POLICY, SPECIFICATIONS AND AND TECHNOLOGY DATE: 2021-17 DRAWN BY:  Transport Roads & Maritime Services CHECKED BY:				A3			
----------	--	--	--	--	--	--	--	---	--	--	--	-----------------------------------	--	--	--	---	--	--	--	----	--	--	--

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR NO.	APPROVAL	SCALE ON A3 SIZE DRAWING
F	28.02.23	ISSUE FOR TENDER	UF	VG	North
E	23.02.23	ISSUE FOR CLIENT REVIEW	UF	VG	
D	15.11.21	ISSUED FOR 100%	RD	VG	
C	08.09.21	ISSUE FOR INFORMATION	RP	VG	

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 200 MILLER STREET  
 NORTH SYDNEY, NSW 2060  
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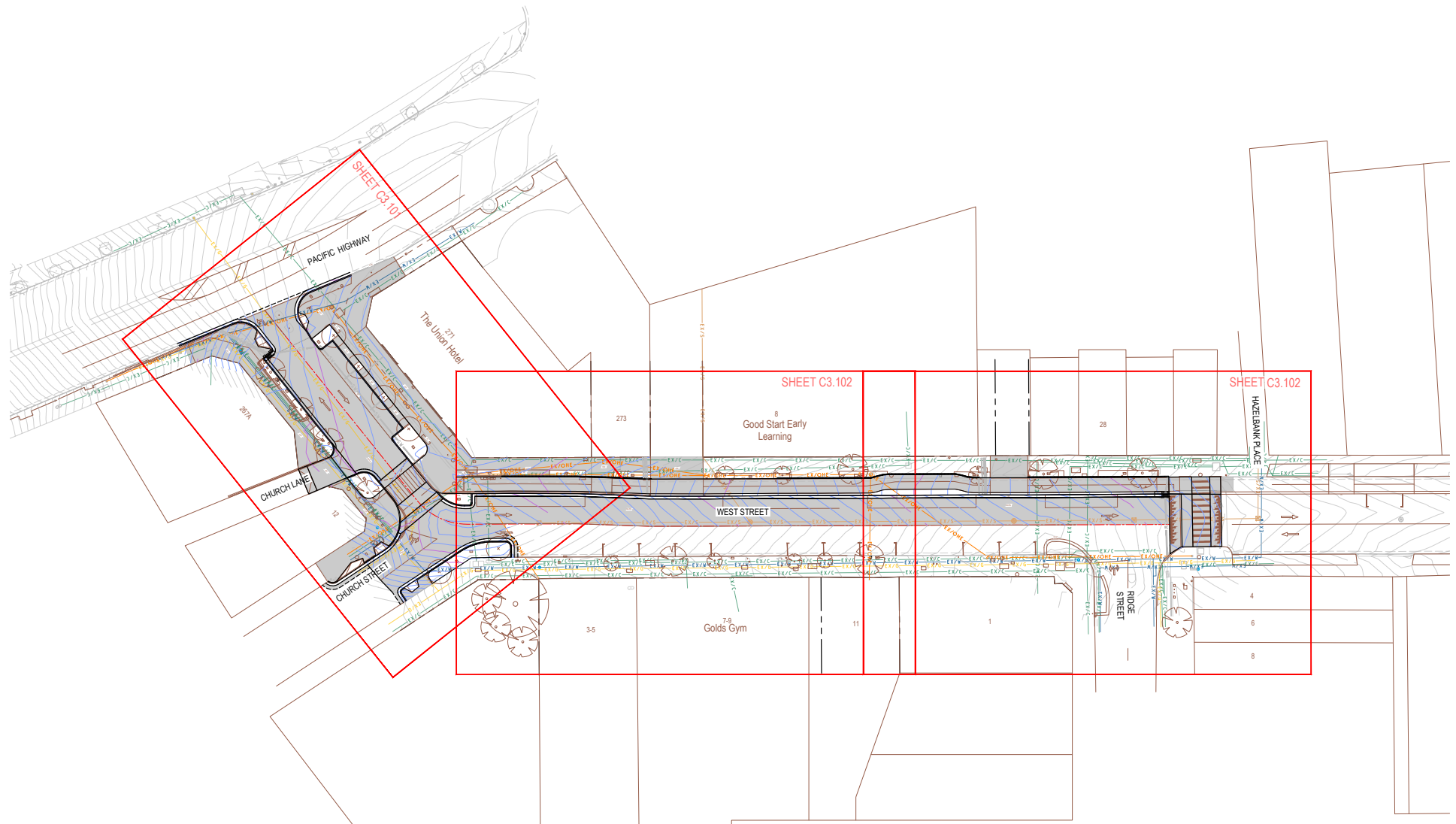
Architect  
  
**AcOR CONSULTANTS**  
 LEVEL 7, 80 WILLIAM STREET  
 EAST SYDNEY, NSW 2011  
 PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
 Suite 2, Level 1, 33 Herbert Street,  
 St Leonards NSW 2065  
 T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**  
 PACIFIC HIGHWAY TO RIDGE STREET  
 NORTH SYDNEY, NSW 2060

Drawing Title <b>TYPICAL DETAILS SHEET 8</b>					
Drawn	Date	Scale	A1	D.A. Check	Date
ROB	JUNE 2021	NOT TO SCALE			
Checked	Project No.	Eng. No.	Issue		
VG	NSW200322	8	F		

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SCALE 1:300 @ A1  
SCALE 1:600 @ A3

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C	ISSUE FOR INFORMATION	08.09.21	RP	VG

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title  
**OVERALL LAYOUT KEY PLAN**

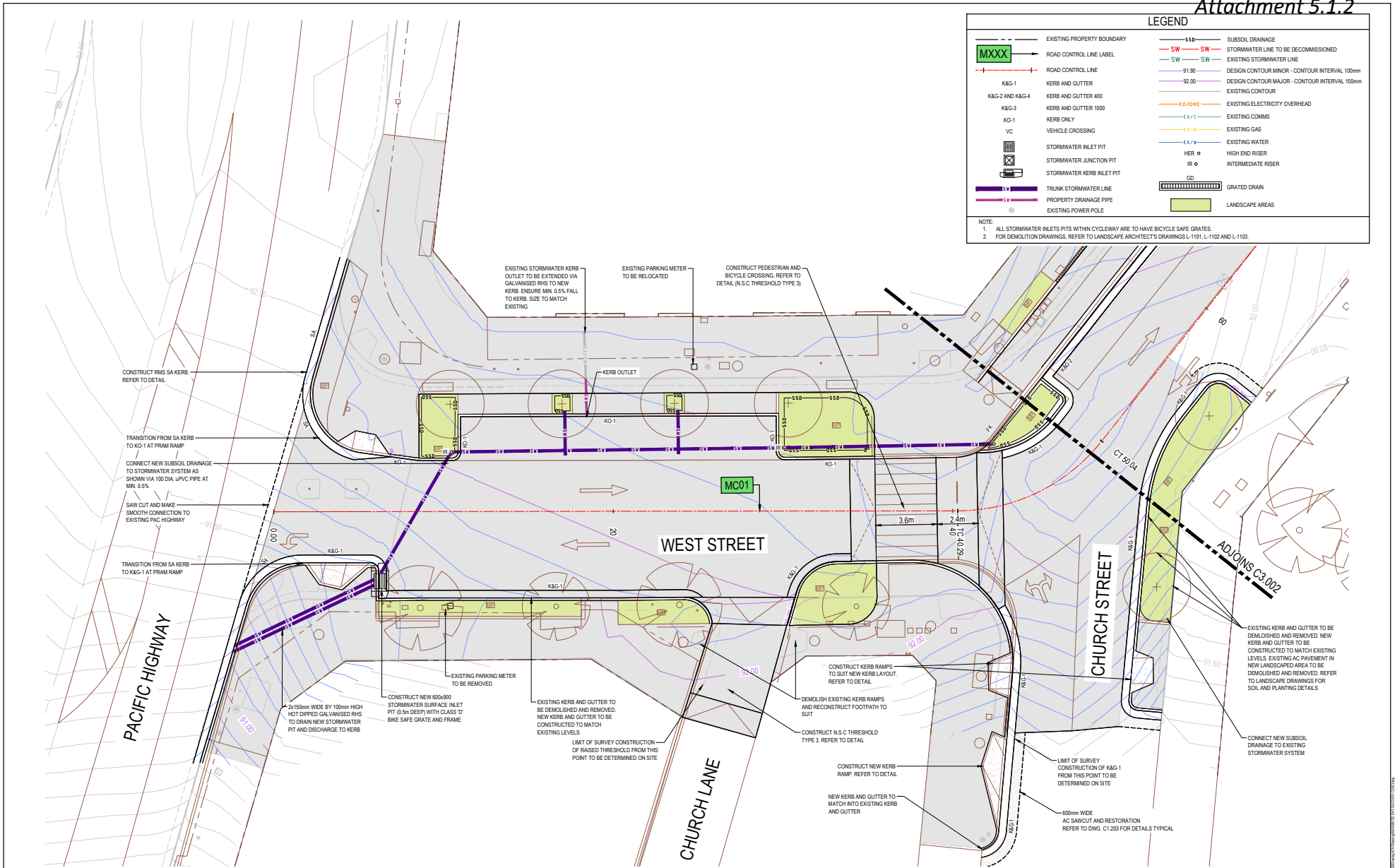
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ROB	JUNE 2021	1:300			
Checked	Project No.	Eng. No.	Issue		
VG	NSW200022		F		

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**LEGEND**

---	EXISTING PROPERTY BOUNDARY	---	SUBSOIL DRAINAGE
---	ROAD CONTROL LINE LABEL	---	STORMWATER LINE TO BE DECOMMISSIONED
---	ROAD CONTROL LINE	---	EXISTING STORMWATER LINE
---	K&G-1	---	DESIGN CONTOUR MINOR - CONTOUR INTERVAL 100mm
---	K&G-2 AND K&G-4	---	DESIGN CONTOUR MAJOR - CONTOUR INTERVAL 100mm
---	K&G-3	---	EXISTING CONTOUR
---	KD-1	---	EXISTING ELECTRICITY OVERHEAD
---	VC	---	EXISTING COMMS
---	STORMWATER INLET PIT	---	EXISTING GAS
---	STORMWATER JUNCTION PIT	---	EXISTING WATER
---	STORMWATER KERB INLET PIT	---	HER
---	TRUNK STORMWATER LINE	---	IR
---	PROPERTY DRAINAGE PIPE	---	GRATED DRAIN
---	EXISTING POWER POLE	---	LANDSCAPE AREAS

NOTE:  
 1. ALL STORMWATER INLETS PITS WITHIN CYCLEWAY ARE TO HAVE BICYCLE SAFE GRATES.  
 2. FOR DEMOLITION DRAWINGS, REFER TO LANDSCAPE ARCHITECT'S DRAWINGS L-1101, L-1102 AND L-1103.



SCALE 1:100 @ A1  
 SCALE 1:200 @ A3

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C	ISSUE FOR INFORMATION	08.09.21	RP	VG	

Client  
**NORTH SYDNEY COUNCIL**  
 200 MILLER STREET  
 NORTH SYDNEY, NSW 2060  
 PHONE: 02 9938 8100

Architect  
**GROUP SA**  
 LEVEL 7, 80 WILLIAM STREET  
 EAST SYDNEY, NSW 2011  
 PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
 Suite 2, Level 1, 33 Herbert Street  
 St Leonards NSW 2065  
 T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**  
 PACIFIC HIGHWAY TO RIDGE STREET  
 NORTH SYDNEY, NSW 2060

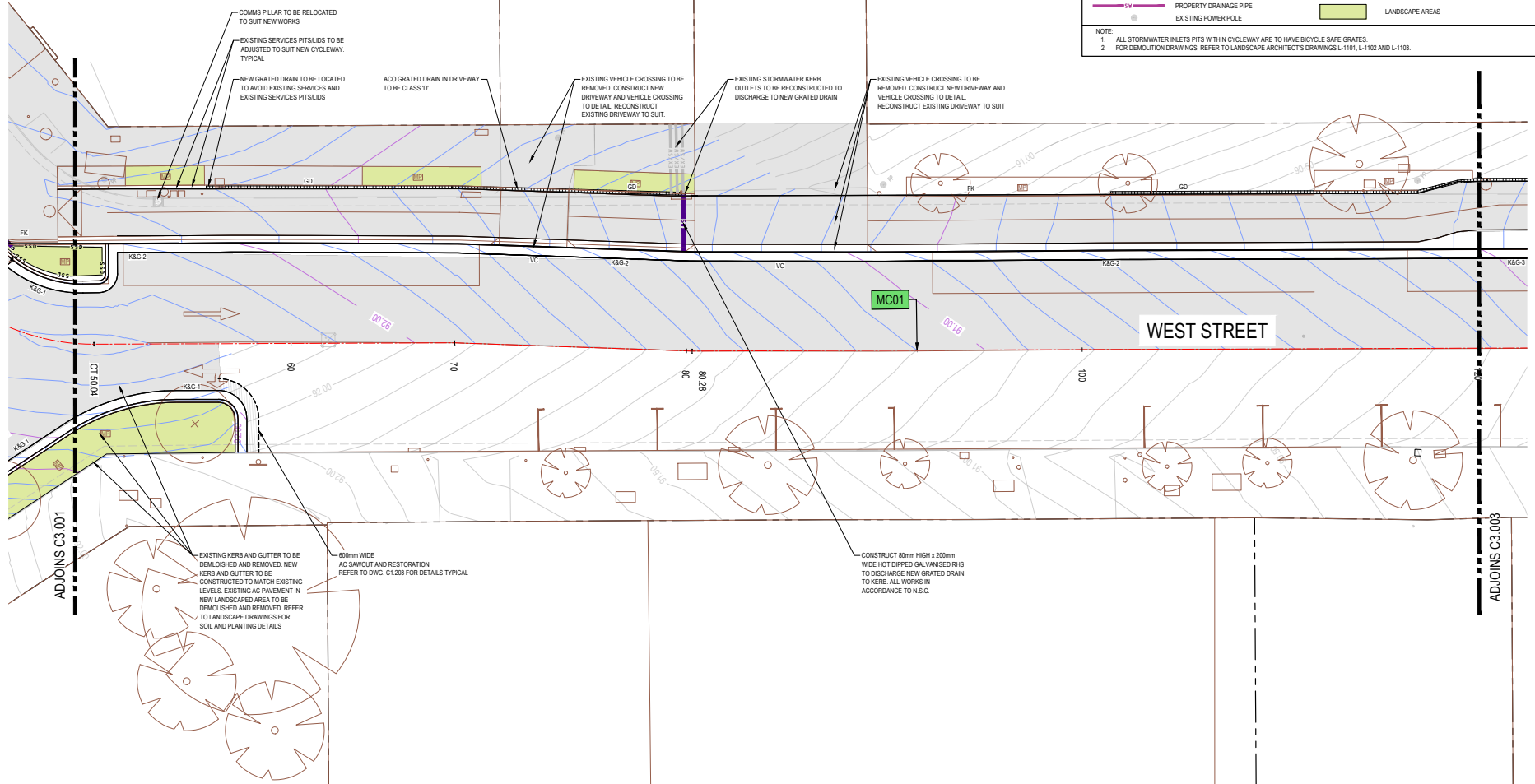
Drawn	Date	Scale	A1	D.A. Check	Date
ROB	JUNE 2021	1:100			
Checked					
VG					

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**LEGEND**

---	EXISTING PROPERTY BOUNDARY	---	SUBSOIL DRAINAGE
MXXX	ROAD CONTROL LINE LABEL	SW	STORMWATER LINE TO BE DECOMMISSIONED
---	ROAD CONTROL LINE	SW	EXISTING STORMWATER LINE
K&G-1	KERB AND GUTTER	91.00	DESIGN CONTOUR MINOR - CONTOUR INTERVAL 100mm
K&G-2 AND K&G-4	KERB AND GUTTER 400	92.00	DESIGN CONTOUR MAJOR - CONTOUR INTERVAL 100mm
K&G-3	KERB AND GUTTER 1000	---	EXISTING CONTOUR
KD-1	KERB ONLY	EX/OHE	EXISTING ELECTRICITY OVERHEAD
VC	VEHICLE CROSSING	EX/C	EXISTING COMMS
[Symbol]	STORMWATER INLET PIT	EX/W	EXISTING GAS
[Symbol]	STORMWATER JUNCTION PIT	EX/V	EXISTING WATER
[Symbol]	STORMWATER KERB INLET PIT	HER	HIGH END RISER
[Symbol]	TRUNK STORMWATER LINE	IR	INTERMEDIATE RISER
[Symbol]	PROPERTY DRAINAGE PIPE	GD	GRATED DRAIN
[Symbol]	EXISTING POWER POLE	[Symbol]	LANDSCAPE AREAS

NOTE:  
 1. ALL STORMWATER INLET PITS WITHIN CYCLEWAY ARE TO HAVE BICYCLE SAFE GRATES.  
 2. FOR DEMOLITION DRAWINGS, REFER TO LANDSCAPE ARCHITECTS DRAWINGS L-1101, L-1102 AND L-1103.



SCALE 1:100 @ A1  
SCALE 1:200 @ A3

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Issue	Drawn	Checked	Approved		

Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9638 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

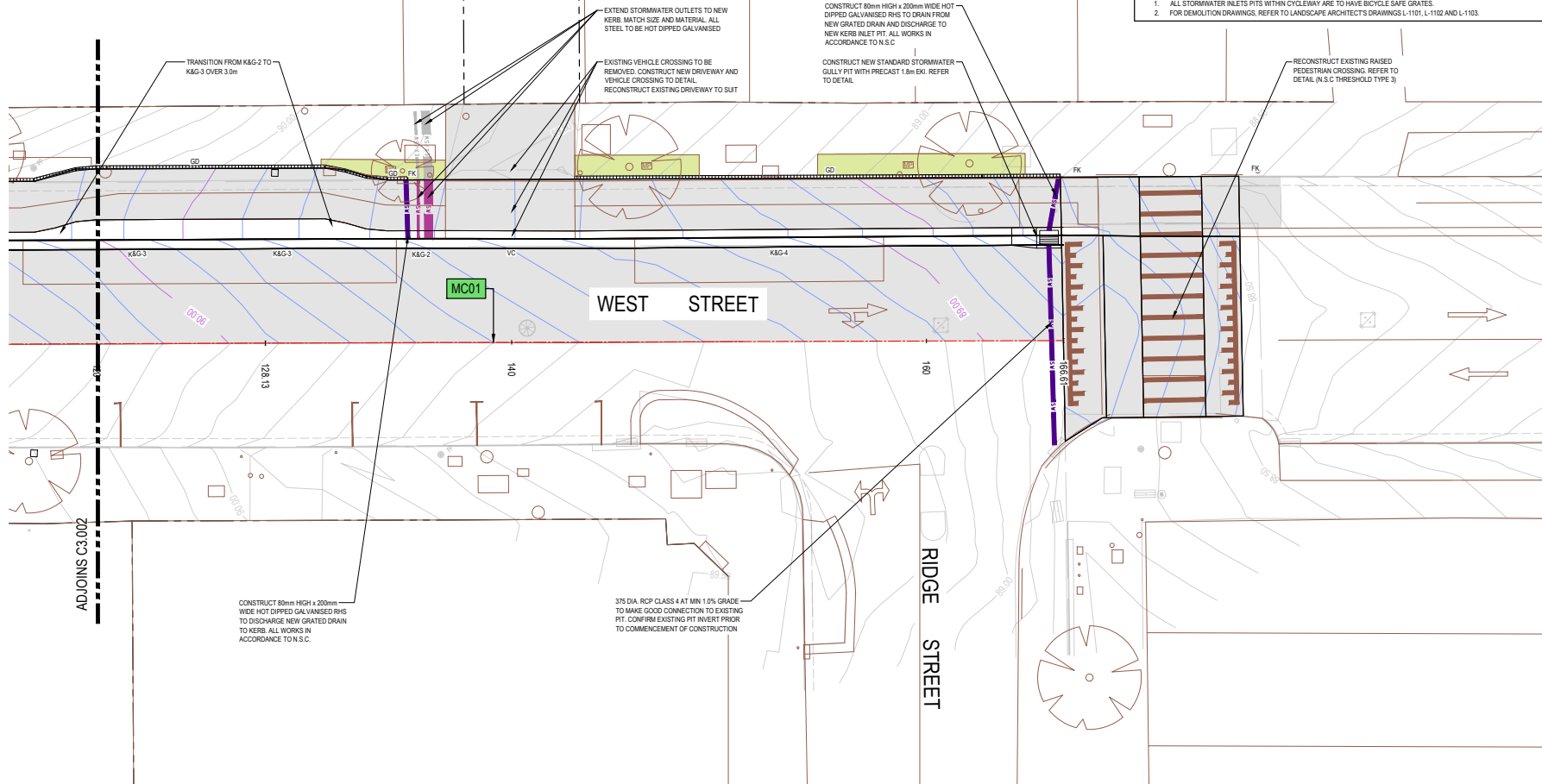
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Drawn	ROB	Date	JUNE 2021	Scale	1:100	A1	D.A. Check		Date
Checked	VG	Project No.	NSW209722	Drawn No.		Issue	F		

**LEGEND**

	EXISTING PROPERTY BOUNDARY		SUBSOIL DRAINAGE
	ROAD CONTROL LINE LABEL		STORMWATER LINE TO BE DECOMMISSIONED
	ROAD CONTROL LINE		EXISTING STORMWATER LINE
	K&G-1		DESIGN CONTOUR MINOR - CONTOUR INTERVAL 100mm
	K&G-2 AND K&G-4		DESIGN CONTOUR MAJOR - CONTOUR INTERVAL 100mm
	K&G-3		EXISTING CONTOUR
	KD-1		EXISTING ELECTRICITY OVERHEAD
	VC		EXISTING COMBIS
	STORMWATER INLET PIT		EXISTING GAS
	STORMWATER JUNCTION PIT		EXISTING WATER
	STORMWATER KERB INLET PIT		HIGH END RISER
	TRUNK STORMWATER LINE		INTERMEDIATE RISER
	PROPERTY DRAINAGE PIPE		GRATED DRAIN
	EXISTING POWER POLE		LANDSCAPE AREAS

NOTE:  
 1. ALL STORMWATER INLETS PITS WITHIN CYCLEWAY ARE TO HAVE BICYCLE SAFE GRATES.  
 2. FOR DEMOLITION DRAWINGS, REFER TO LANDSCAPE ARCHITECTS DRAWINGS L-1101, L-1102 AND L-1103.



SCALE 1:100 @ A1  
 SCALE 1:200 @ A3

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**NORTH SYDNEY COUNCIL**  
 200 MILLER STREET  
 NORTH SYDNEY, NSW 2060  
 PHONE: 02 9938 8100

Architect  
**GROUP SA**  
 LEVEL 7, 80 WILLIAM STREET  
 EAST SYDNEY, NSW 2011  
 PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
 Suite 2, Level 1, 33 Herbert Street,  
 St Leonards NSW 2065  
 T +61 2 9438 5065

Project  
**WEST STREET ACTIVE TRANSPORT**  
 PACIFIC HIGHWAY TO RIDGE STREET  
 NORTH SYDNEY, NSW 2060

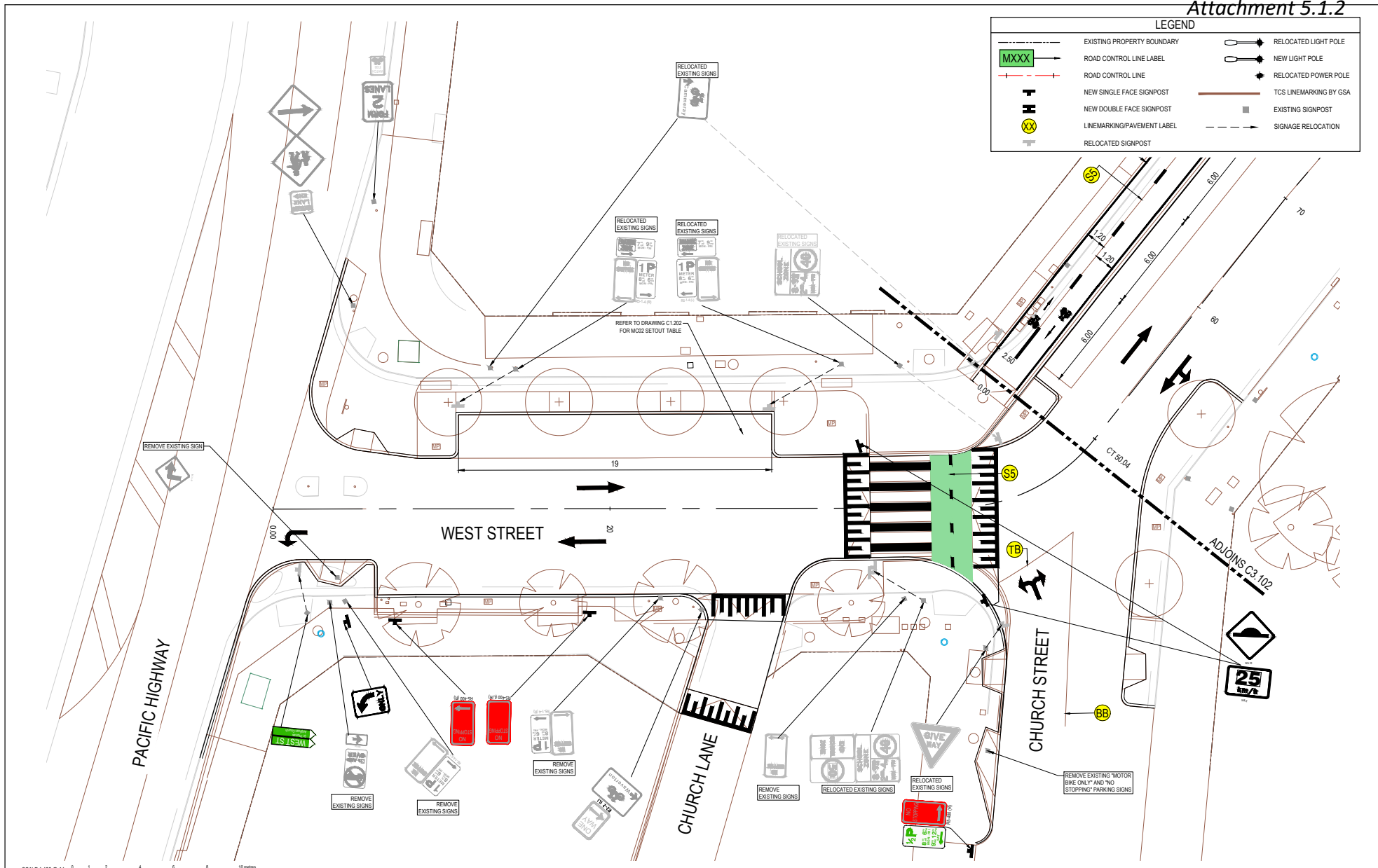
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**SITeworks PLAN SHEET 3**

Drawn	Date	Scale	A1	D.A. Check	Date
ROB	JUNE 2021	1:100			
Checked					
VG					

Project No. **NSW209722**  
 Issue **F**

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LEGEND			
	EXISTING PROPERTY BOUNDARY		RELOCATED LIGHT POLE
	ROAD CONTROL LINE LABEL		NEW LIGHT POLE
	ROAD CONTROL LINE		RELOCATED POWER POLE
	NEW SINGLE FACE SIGNPOST		TCS LINEMARKING BY GSA
	NEW DOUBLE FACE SIGNPOST		EXISTING SIGNPOST
	LINEMARKING/PAVEMENT LABEL		SIGNAGE RELOCATION
	RELOCATED SIGNPOST		



SCALE 1:100 @ A1  
SCALE 1:200 @ A3

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP GSA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

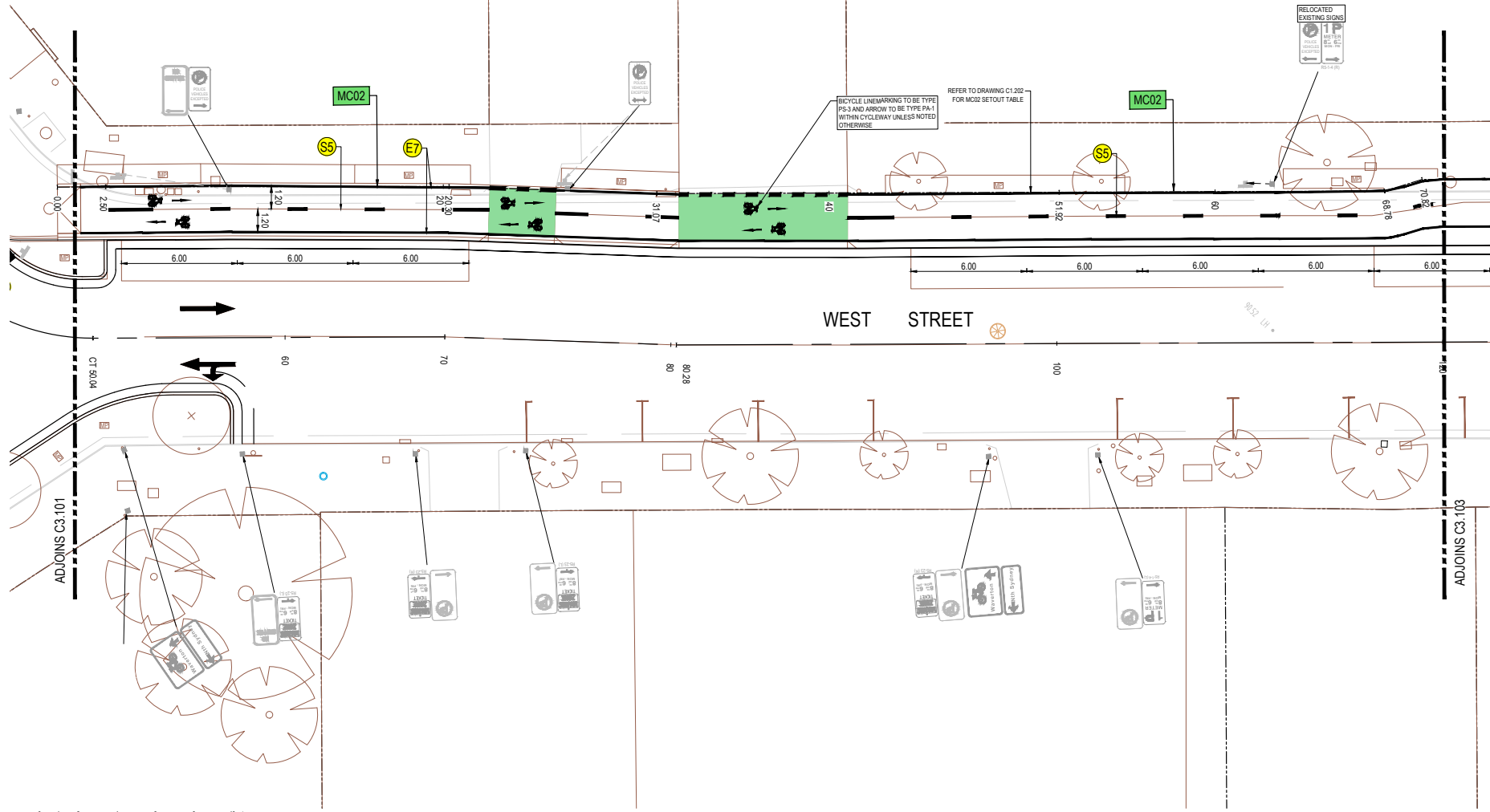
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Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawn	Date	Scale	A1	D.A. Check	Date
ROB	JUNE 2021	1:100			
VG					

NOT FOR CONSTRUCTION

LEGEND			
	EXISTING PROPERTY BOUNDARY		RELOCATED LIGHT POLE
	ROAD CONTROL LINE LABEL		NEW LIGHT POLE
	ROAD CONTROL LINE		RELOCATED POWER POLE
	NEW SINGLE FACE SIGNPOST		TCS LINEMARKING BY GSA
	NEW DOUBLE FACE SIGNPOST		EXISTING SIGNPOST
	LINEMARKING/PAVEMENT LABEL		
	RELOCATED SIGNPOST		



SCALE 1:100 @ A1  
SCALE 1:200 @ A3

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP GSA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
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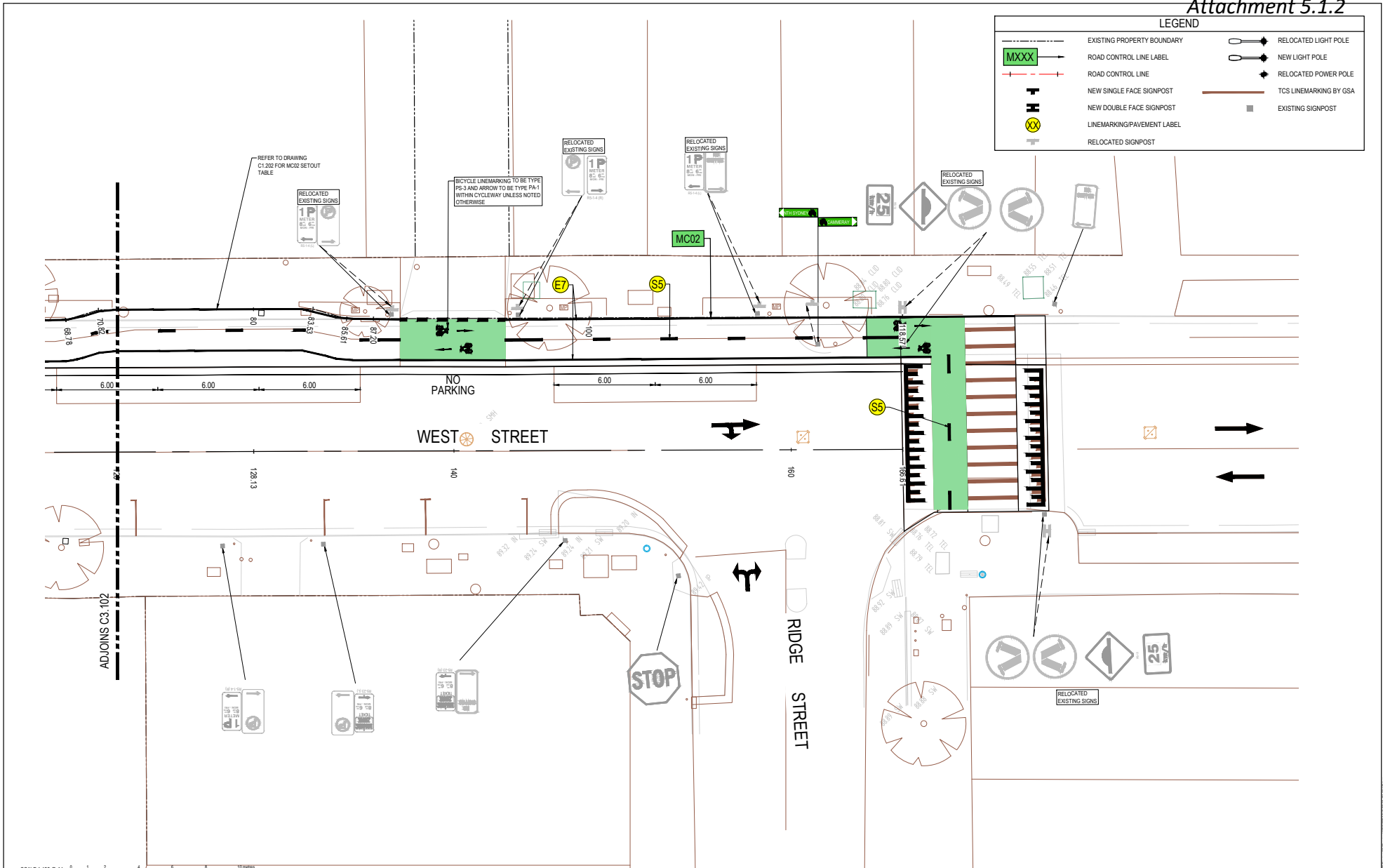
ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title		Scale		Date	
SIGNAGE AND LINEMARKING PLAN		1:100		JUNE 2021	
SHEET 2					
Drawn	ROB	Date	JUNE 2021	Scale	1:100
Checked	VG	Project No.	NSW209722	Drawn No.	2
		Sheet No.	2	Scale	F



LEGEND			
	EXISTING PROPERTY BOUNDARY		RELOCATED LIGHT POLE
	ROAD CONTROL LINE LABEL		NEW LIGHT POLE
	ROAD CONTROL LINE		RELOCATED POWER POLE
	NEW SINGLE FACE SIGNPOST		TCS LINEMARKING BY GSA
	NEW DOUBLE FACE SIGNPOST		EXISTING SIGNPOST
	LINEMARKING/PAVEMENT LABEL		
	RELOCATED SIGNPOST		



SCALE 1:100 @ A1  
SCALE 1:200 @ A3

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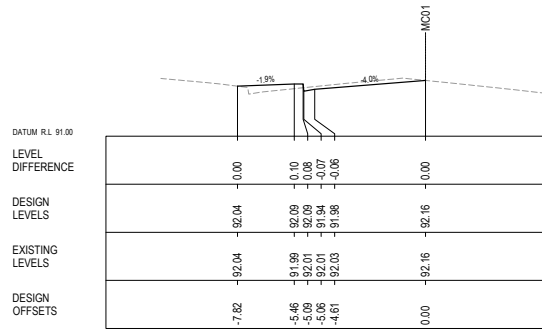
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**GROUP GSA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**AcOR CONSULTANTS**  
ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

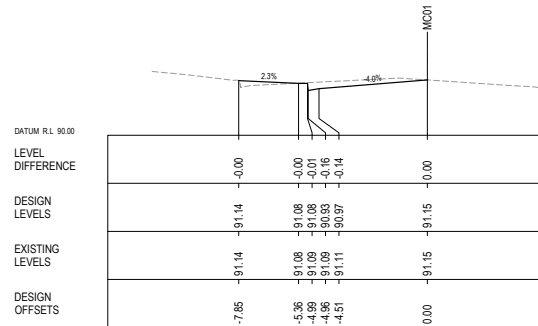
Project  
**WEST STREET ACTIVE TRANSPORT**  
Pacific Highway to Ridge Street  
NORTH SYDNEY, NSW 2060

Drawn	Date	Scale	A1	D.A. Check	Date
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Checked	Project No.	Draw No.	Sheet No.	Scale	Block
VG	NSW209722				F

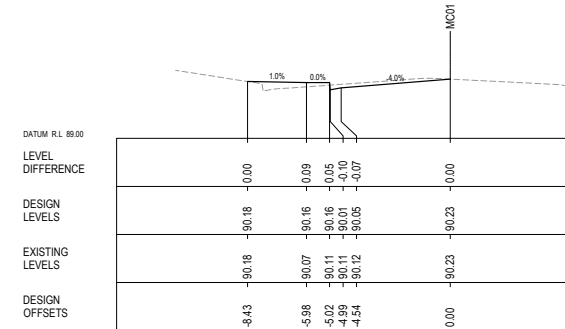
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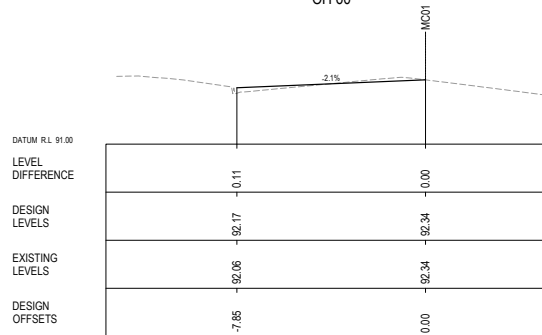
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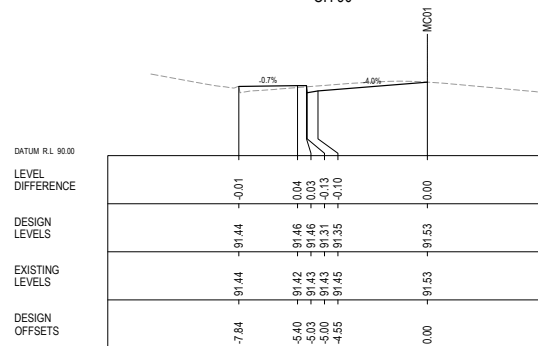
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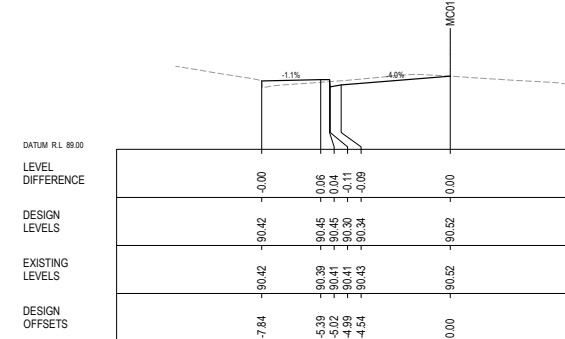
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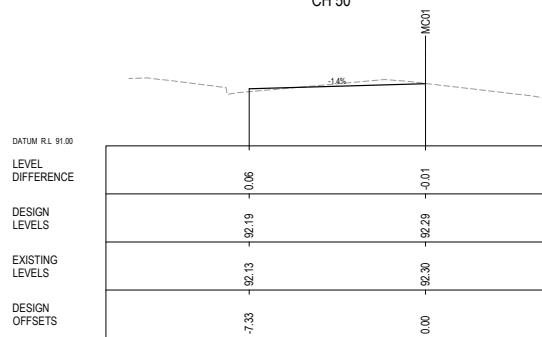
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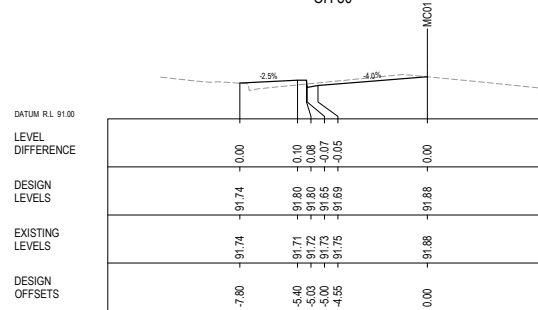
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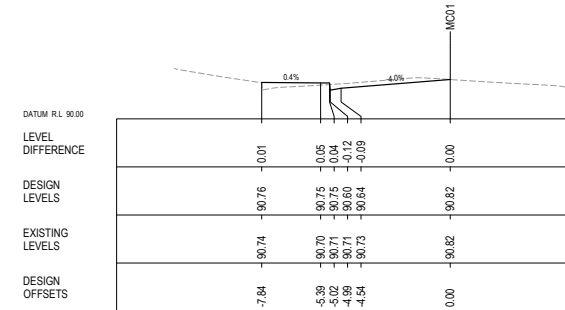
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CH 44.162



CH 70



CH 100



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C	ISSUE FOR INFORMATION	08.09.21	RP	VG	
Issue	Drawn	Checked	Approved		

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200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9638 8100

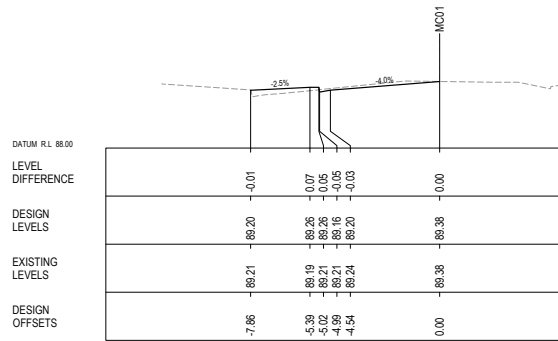
Architect  
**GROUP SA**  
AcOR  
CONSULTANTS  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5098

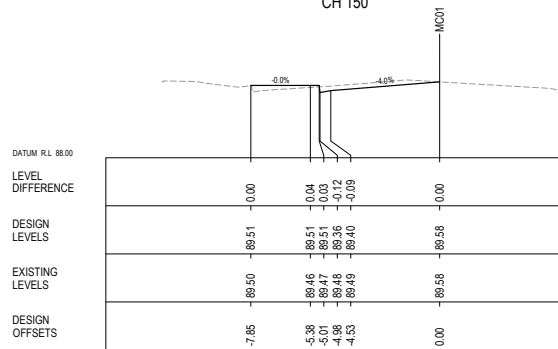
Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title <b>ROAD CROSS SECTIONS SHEET 1</b>					
Drawn	Date	Scale	At	D.A. Check	Date
ROB	JUNE 2021	AS SHOWN			
Checked	Project No.	Draw No.	Issue		
VG	NSW200722		F		

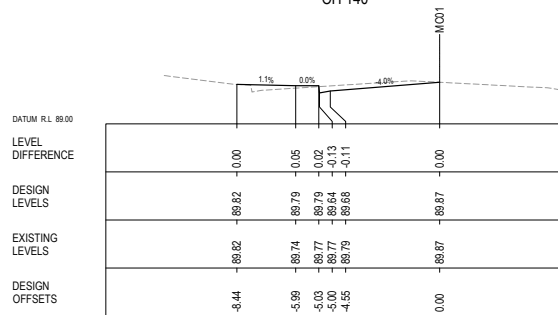
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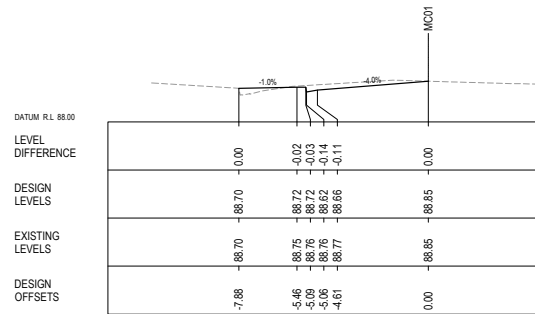
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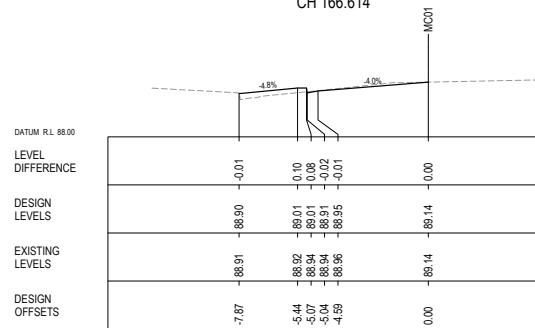
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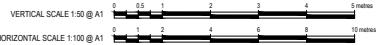
CH 130



CH 166.614



CH 160



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C	ISSUE FOR INFORMATION	08.09.21	RP	VG

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**AcOR CONSULTANTS**  
ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

**ACOR Consultants Pty Ltd**  
Suite 2, Level 1, 33 Herbert Street,  
St Leonards NSW 2065  
T +61 2 9438 5098

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**WEST STREET ACTIVE TRANSPORT**  
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NORTH SYDNEY, NSW 2060

Drawing Title <b>ROAD CROSS SECTIONS SHEET 2</b>				
Drawn ROB	Date JUNE 2021	Scale AS SHOWN	D.A. Check AT	Date
Checked VG	Project No. NSW201722	Sheet No. F	Issue F	Date

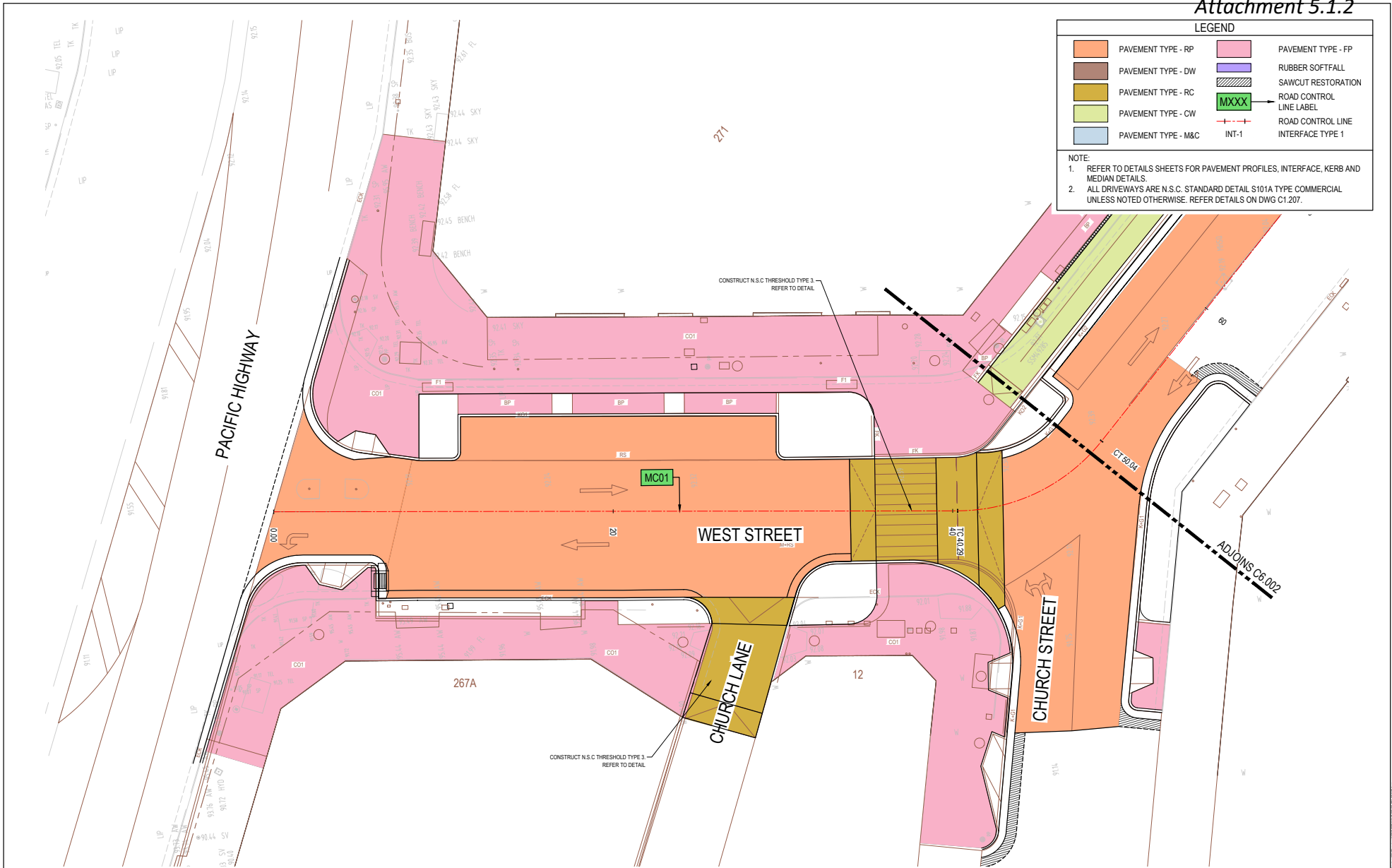
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**LEGEND**

	PAVEMENT TYPE - RP		PAVEMENT TYPE - FP
	PAVEMENT TYPE - DW		RUBBER SOFTFALL
	PAVEMENT TYPE - RC		SAWCUT RESTORATION
	PAVEMENT TYPE - CW		ROAD CONTROL LINE LABEL
	PAVEMENT TYPE - M&C		ROAD CONTROL LINE INTERFACE TYPE 1

**NOTE:**

- REFER TO DETAILS SHEETS FOR PAVEMENT PROFILES, INTERFACE, KERB AND MEDIAN DETAILS.
- ALL DRIVEWAYS ARE N.S.C. STANDARD DETAIL S101A TYPE COMMERCIAL UNLESS NOTED OTHERWISE. REFER DETAILS ON DWG C1.207.



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C	ISSUE FOR INFORMATION	08.09.21	RP	VG	

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098

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**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
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Drawn	Date	Scale	A1	D.A. Check	Date
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Checked	Project No.	Draw No.	Sheet No.	Issue	
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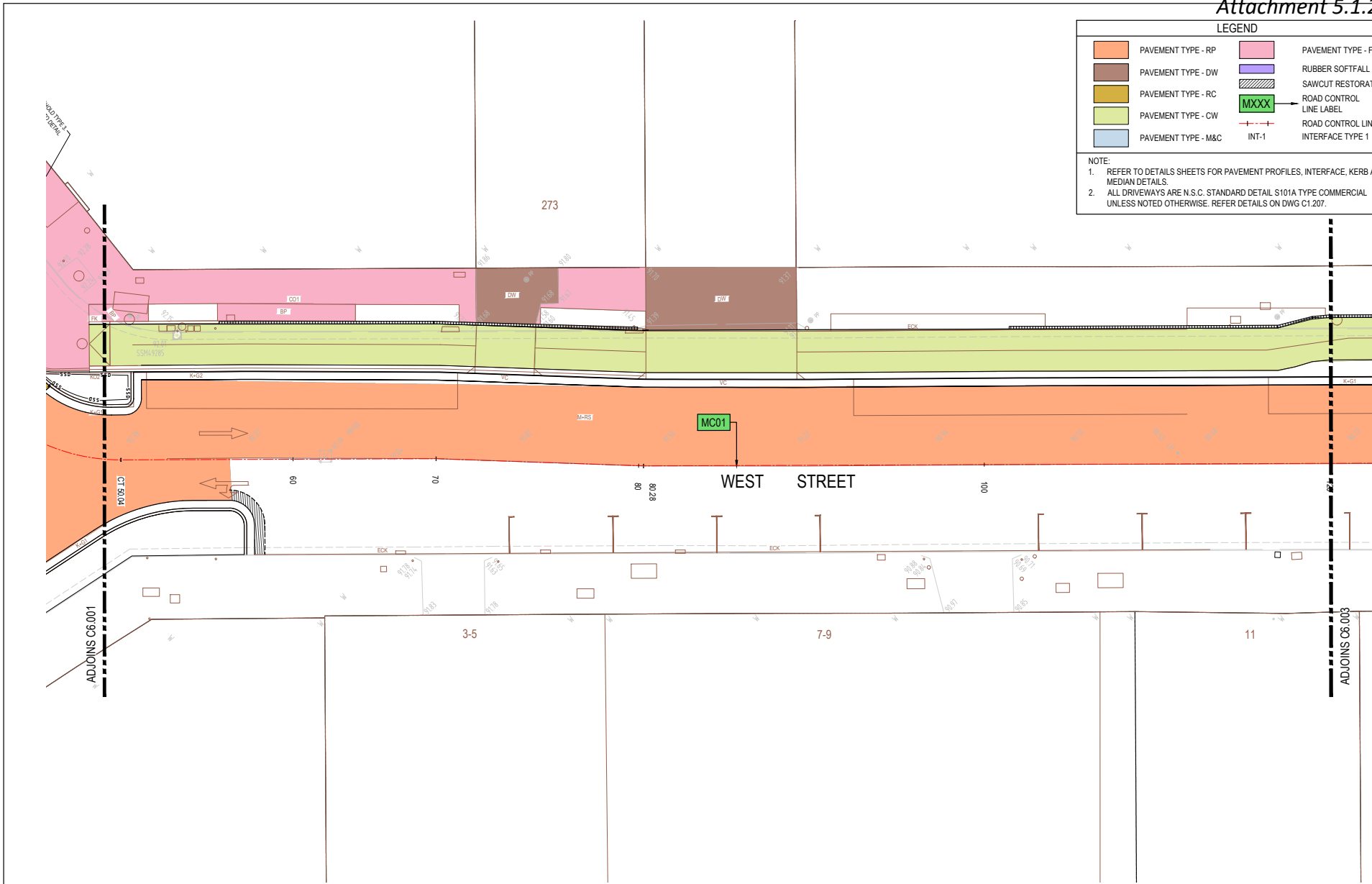
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**LEGEND**

	PAVEMENT TYPE - RP		PAVEMENT TYPE - FP
	PAVEMENT TYPE - DW		RUBBER SOFTFALL
	PAVEMENT TYPE - RC		SAWCUT RESTORATION
	PAVEMENT TYPE - CW		ROAD CONTROL LINE LABEL
	PAVEMENT TYPE - M&C		ROAD CONTROL LINE
			INT-1
			INTERFACE TYPE 1

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Client  
**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**AcOR CONSULTANTS**  
ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098

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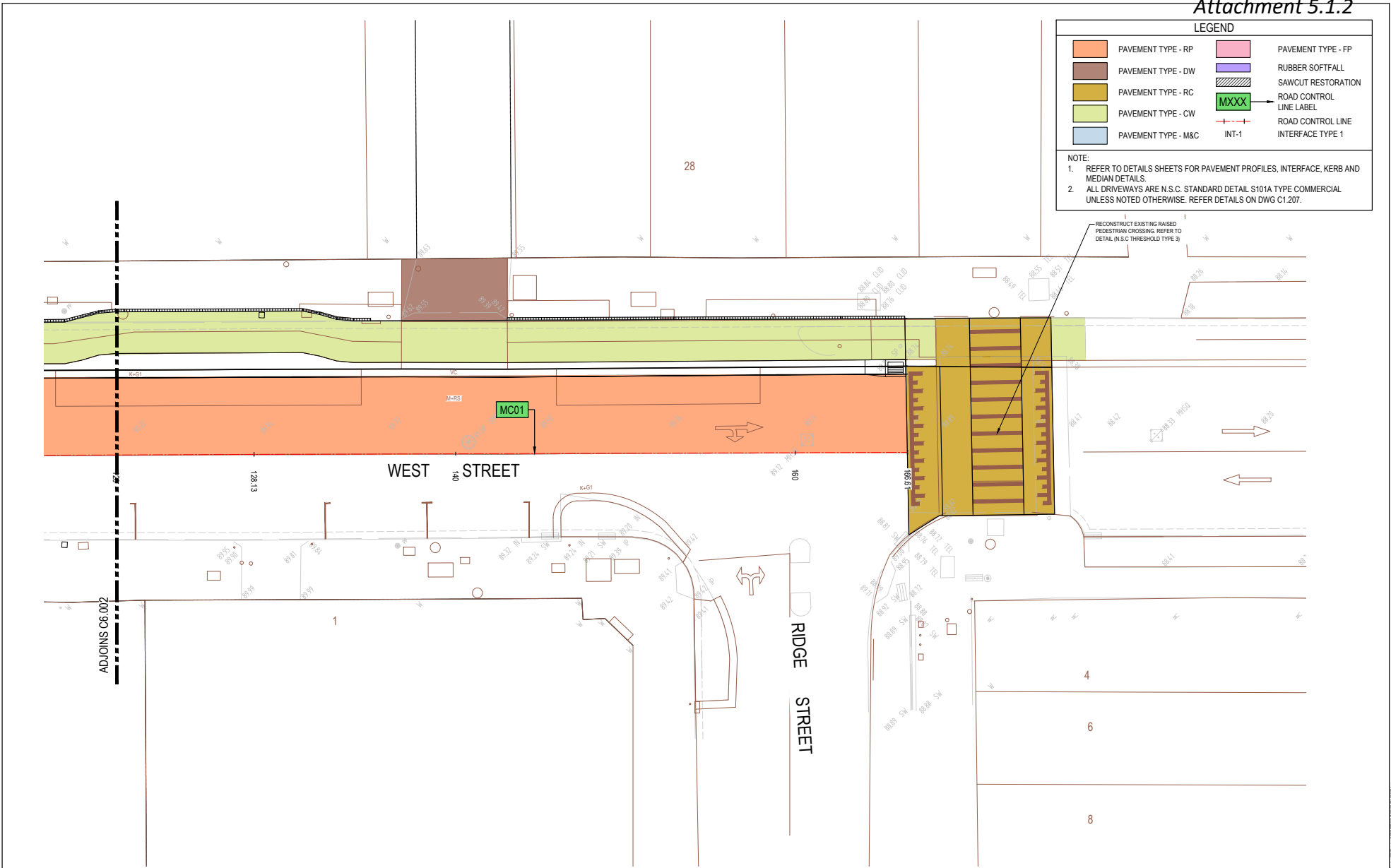
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**LEGEND**

	PAVEMENT TYPE - RP		PAVEMENT TYPE - FP
	PAVEMENT TYPE - DW		RUBBER SOFTFALL
	PAVEMENT TYPE - RC		SAWCUT RESTORATION
	PAVEMENT TYPE - CW		ROAD CONTROL LINE LABEL
	PAVEMENT TYPE - M&C		ROAD CONTROL LINE INTERFACE TYPE 1

**NOTE:**

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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100





Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

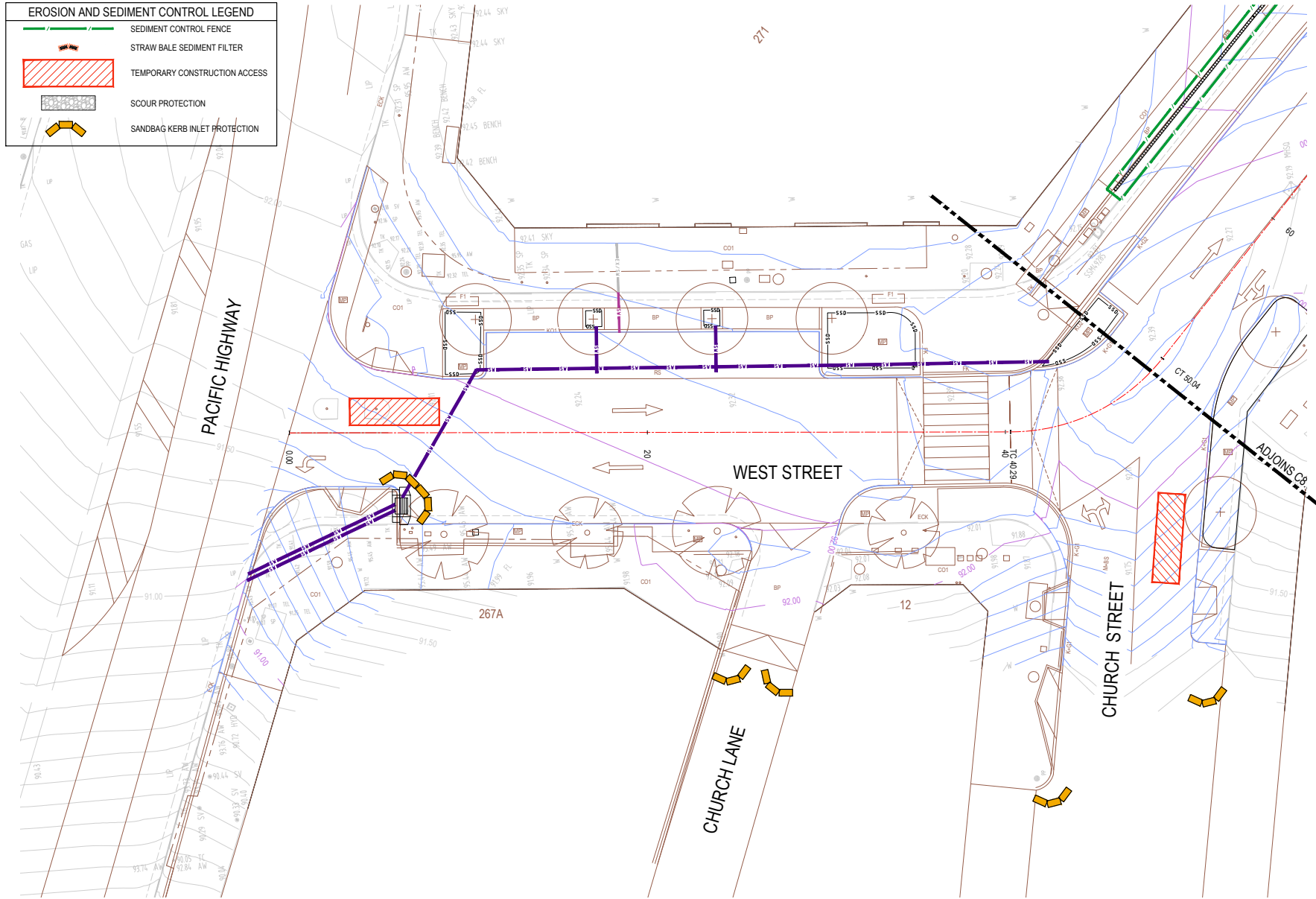
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St Leonards NSW 2065  
T +61 2 9438 9098

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Drawn	Date	Scale	A1	D.A. Check	Date
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VG	NSW20072	002		F	

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EROSION AND SEDIMENT CONTROL LEGEND	
	SEDIMENT CONTROL FENCE
	TEMPORARY CONSTRUCTION ACCESS
	SCOUR PROTECTION
	SANDBAG KERB INLET PROTECTION



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A	ISSUE FOR CLIENT REVIEW	23.02.23	UF	VG



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NORTH SYDNEY, NSW 2060  
PHONE: 02 9936 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458






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St Leonards NSW 2065  
T +61 2 9438 5098

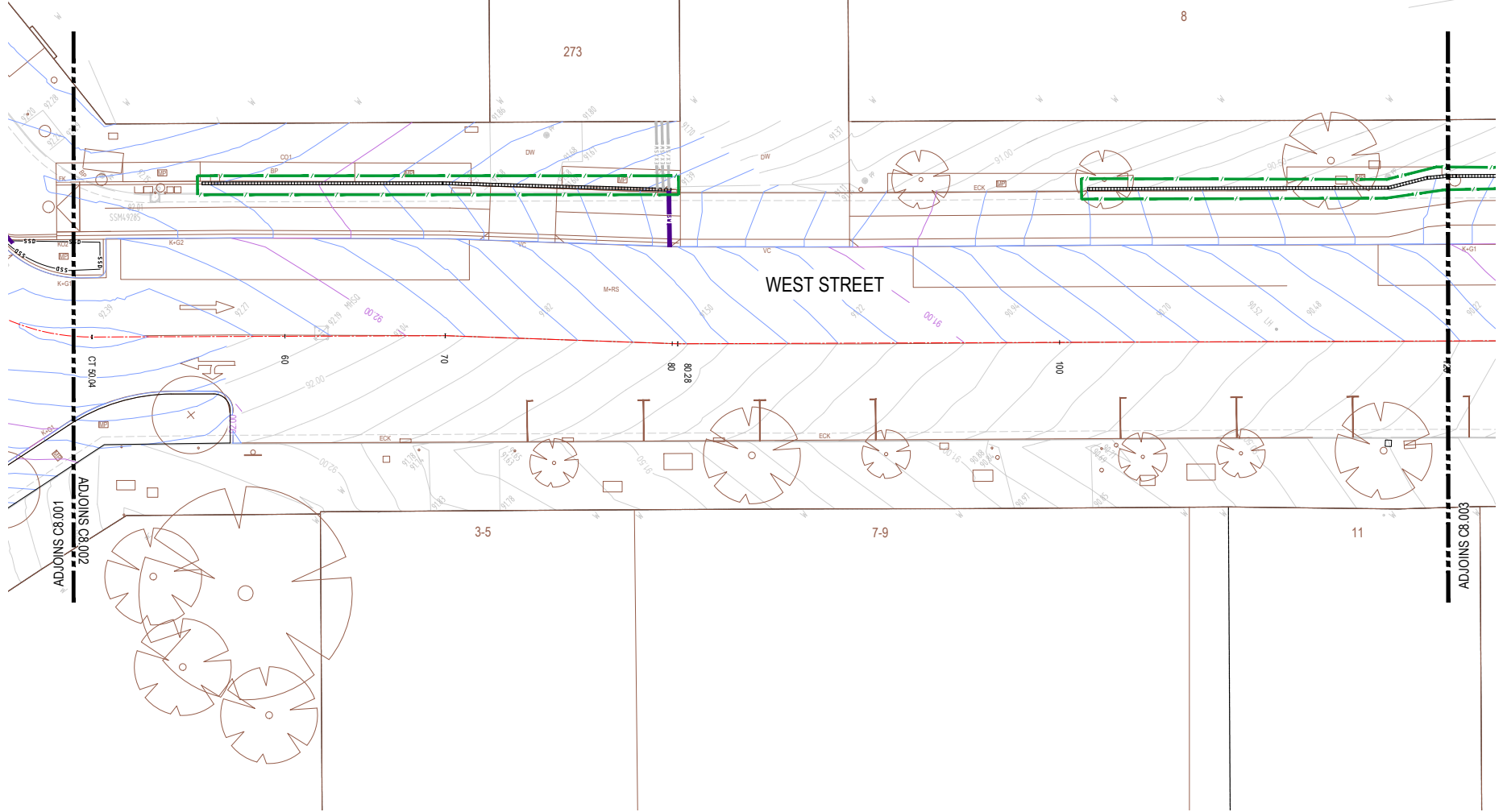


Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title				
SOIL EROSION AND SEDIMENT CONTROL PLAN				
SHEET 1				
Drawn	Date	Scale	A1	D.A. Check
RD	JUNE 2021	1:100		
Checked	Project No.	Eng. No.	Issue	
VG	NSW200722		B	

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EROSION AND SEDIMENT CONTROL LEGEND	
	SEDIMENT CONTROL FENCE
	STRAW BALE SEDIMENT FILTER
	TEMPORARY CONSTRUCTION ACCESS
	SCOUR PROTECTION
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A	ISSUE FOR CLIENT REVIEW	23.02.23	UF	VG

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NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100




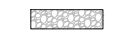

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

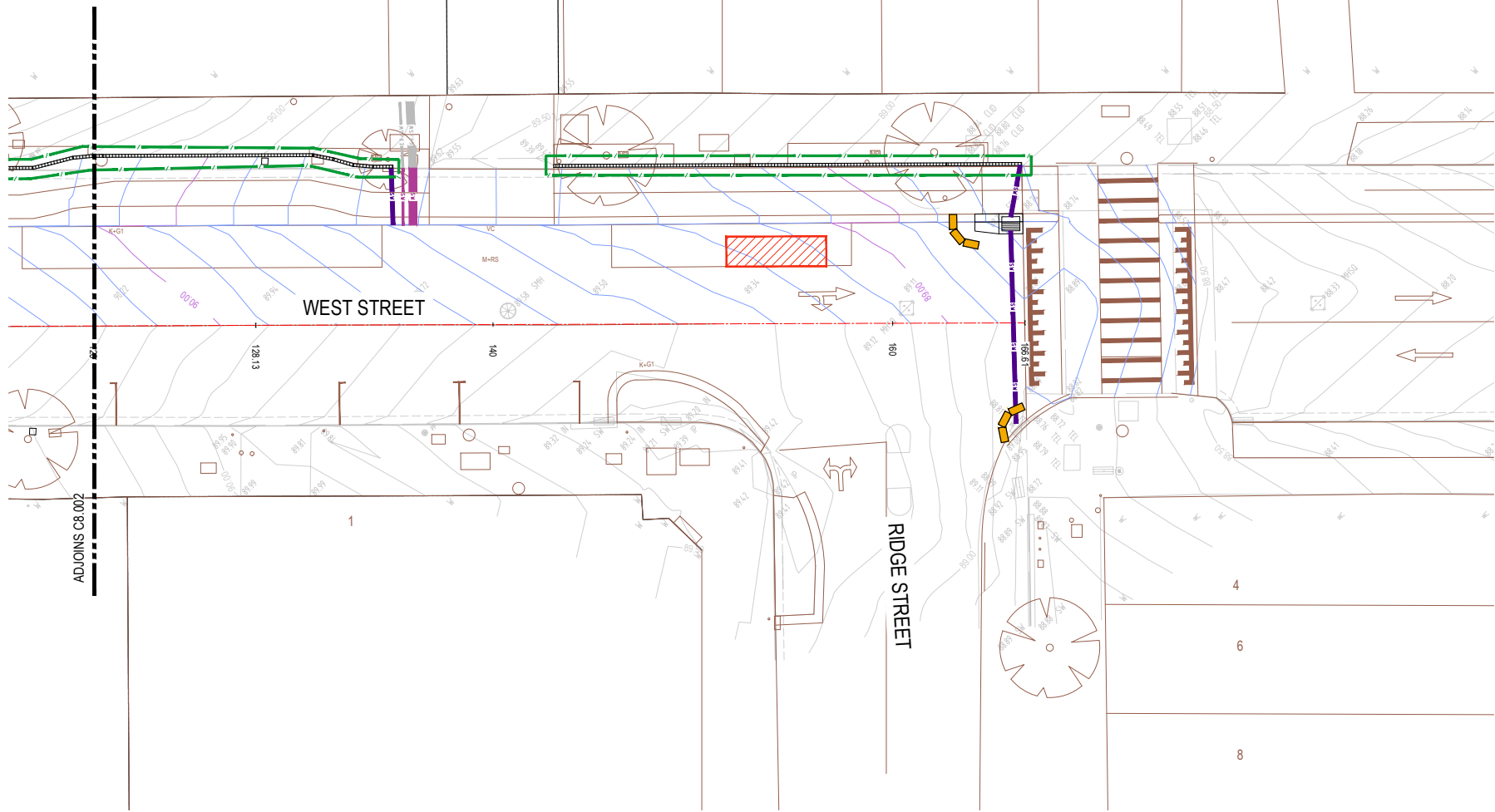
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Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawn	Date	Scale	A1	D.A. Check	Date
RD	JUNE 2021	1:100			
Checked					
VG					



EROSION AND SEDIMENT CONTROL LEGEND	
	SEDIMENT CONTROL FENCE
	STRAW BALE SEDIMENT FILTER
	TEMPORARY CONSTRUCTION ACCESS
	SCOUR PROTECTION
	SANDBAG KERB INLET PROTECTION



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**NORTH SYDNEY COUNCIL**  
200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9938 8100

Architect  
**GROUP SA**  
LEVEL 7, 80 WILLIAM STREET  
EAST SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

**AcOR CONSULTANTS** ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS  
ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098

Project  
**WEST STREET ACTIVE TRANSPORT**  
PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

Drawing Title SOIL EROSION AND SEDIMENT CONTROL PLAN SHEET 3					
Drawn	Date	Scale	A1	D.A. Check	Date
RD	JUNE 2021	1:100			
Checked	Project No.	Draw No.	Issue		
VG	NSW200722	03	B		

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**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL INSTRUCTIONS**

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

**LAND DISTURBANCE INSTRUCTIONS**

1. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UP/SLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UP/SLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
  - a. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN
  - b. CONSTRUCT THE STABILISED SITE ACCESS
  - c. CONSTRUCT DIVERSION DRAINS AS REQUIRED
  - d. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS
  - e. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS
  - f. CLEAR SITE AND STRIP STOCKPILE TOPSOIL LOCATIONS SHOWN ON THE PLAN
  - g. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE
  - h. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS
  - i. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARPED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH EROSION CONTROL LATER.
6. CONTRACTOR TO MANAGE THE ALIGNMENT OF CATCH DRAINS ON SITE AND TO ENSURE THAT CATCH DRAINS INTERCEPT THE SITE SURFACE RUNOFF AND DIRECT THE RUNOFF TOWARDS THE SEDIMENTATION BASINS.

**SITE INSPECTION AND MAINTENANCE INSTRUCTIONS**

1. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
  - a. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS
  - b. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS
  - c. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED
  - d. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY
  - e. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK SITE OR ELSEWHERE IN THE CATCHMENT.
  - f. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
2. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
  - a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS
  - b. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS
  - c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE
  - d. THE NEED FOR DUST PREVENTION STRATEGIES
  - e. ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

**EROSION AND SEDIMENT CONTROL NOTES**

**SEDIMENT CONTROL INSTRUCTIONS**

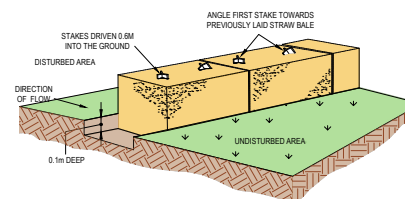
1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE. 6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
6. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL WEATHER ENTRYPOINTS.

**SOIL EROSION CONTROL INSTRUCTIONS**

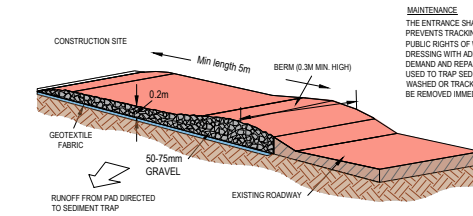
1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
  - a. 2%:1V WHERE SLOPE LENGTH LESS THAN 12 METRES
  - b. 2.5%:1V WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES
  - c. 3%:1V WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES
  - d. 4%:1V WHERE SLOPE LENGTH GREATER THAN 20 METRES.
2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 120 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5.1 OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C FACTOR OF 0.1 (60% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
6. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER, JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
7. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND COVER C FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
8. RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

**WASTE CONTROL INSTRUCTIONS**

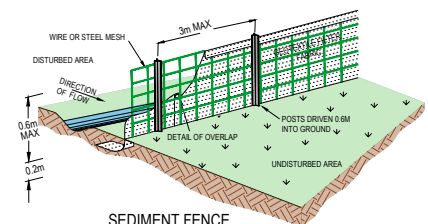
1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAMINATION BOUNDS.
3. ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAMINATION BOUNDS.



**STRAW BALE SEDIMENT FILTER (ALTERNATE)**



**TEMPORARY CONSTRUCTION EXIT**



**SEDIMENT FENCE**

**MAINTENANCE**  
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAROUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.

**EROSION AND SEDIMENT CONTROL NOTES**

**IMPORTANT NOTES:**

1. THIS DRAWINGS IS FOR GUIDANCE PURPOSES ONLY - THE SOIL AND EROSION CONTROLS ARE INDICATIVE AND REMAIN SUBJECT TO CONSTRUCTION METHODOLOGY - THE CONTRACTOR SHALL AT ALL TIMES REMAIN RESPONSIBLE FOR COMPLIANCE WITH ALL LAWS AND REGULATIONS PERTAINING TO SAFETY AND PROTECTION OF ENVIRONMENT
2. ALL SOIL AND EROSION CONTROLS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH COUNCIL GUIDELINES AND CONDITIONS AND THE CURRENT NSW DEPT OF CONSERVATION AND LAND MANAGEMENT "URBAN EROSION AND SEDIMENT CONTROL" HANDBOOK
3. CONTRACTOR TO ENSURE THAT SEDIMENT IS NOT ALLOWED TO ENTER ADJACENT LOTS TO DOWNSTREAM STORMWATER SYSTEMS. ANY DAMAGE WHATSOEVER CAUSED THROUGH BREACH OF THIS CONDITION BY THE CONTRACTOR SHALL BE RECTIFIED SOLELY AT THE CONTRACTORS COST
4. NO SEDIMENT IS TO BE DEPOSITED ON EXISTING PUBLIC ROADS. CONTRACTOR TO ARRANGE SWEEPER VACUUM TRUCK TO REMOVE ANY SEDIMENT PRIOR TO END OF DAY OR NEXT RAINFALL EVENT WHICHEVER COMES FIRST.

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Drawn	Issue	Date	By	Checked	By	Approved	By
B	ISSUE FOR TENDER	28.02.23	UF	VG			
A	ISSUE FOR CLIENT REVIEW	23.02.23	UF	VG			

Client  
**NORTH SYDNEY COUNCIL**

200 MILLER STREET  
NORTH SYDNEY, NSW 2060  
PHONE: 02 9538 8100

Architect  
**GROUP SA**

LEVEL 7, 80 WILLIAM STREET  
NORTH SYDNEY, NSW 2011  
PHONE: +61 2 9361 4144 FAX: +61 2 9332 3458

ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 9098

Project  
**WEST STREET ACTIVE TRANSPORT**

PACIFIC HIGHWAY TO RIDGE STREET  
NORTH SYDNEY, NSW 2060

NOT FOR CONSTRUCTION

Drawn	Date	Scale	AT	D.A. Check	Date
RD	JUNE 2021	NOT TO SCALE			
Checked					
VG					

NSW 209722

## 5.2. Traffic Delegations

**AUTHOR:** Narelle Lamond, Traffic Operations Officer

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:**

1. Attach Traffic Delegations [5.2.1 - 7 pages]

**PURPOSE:**

To report to the Committee matters given approval under delegated authority to the Traffic & Transport Operations Manager.

**EXECUTIVE SUMMARY:**

Attached is a list of projects given approval under delegated authority to the Traffic & Transport Operations Manager. Approval was given subject to concurrence of Transport for NSW, the NSW Police and the local State Members.

**FINANCIAL IMPLICATIONS:**

There are no direct financial implications arising from this report.

**RECOMMENDATION:**

1. **THAT** the information regarding Delegated Authority items be received.

## **LINK TO COMMUNITY STRATEGIC PLAN**

The relationship with the Community Strategic Plan is as follows:

### **2. Our Built Infrastructure**

2.1 Infrastructure and assets meet diverse community needs

2.4 Efficient traffic mobility and parking

## **CONSULTATION REQUIREMENTS**

Community engagement is not required.

**APPROVAL FOR PROJECTS UNDER  
DELEGATED AUTHORITY TO THE TRAFFIC & TRANSPORT OPERATIONS MANAGER  
553rd TRAFFIC COMMITTEE – 17 March 2023**

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
<b>Resident Parking</b>									
Nil									
<b>Temporary Road Closures</b>									
23-003	Olympic Drive	Olympic Dr, Milsons Point (Australia Day celebrations)	North Shore	Temporary Road Closure	<p><b>1. THAT</b> Council raise no objection to the temporary road closure of Olympic Dr in North Sydney on 26.01.23, for the purpose of a 21-gun salute, as per the submitted application and council's standard road closure conditions. Approval is subject to managed access to all affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</p> <p><b>2. THAT</b> should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved, subject to Police Permit approval.</p>	Yes	12.01.2023	9194030	26.01.23
23-004	Bradfield Park	Filming Permit	Bradfield, Cammeraygal, North Shore	Temporary Road Closure	<p><b>1. THAT</b> Council raise no objection to the temporary road closures in North Sydney on 22.01.23, for the purpose of filming a movie, as per the submitted application and council's standard road closure</p>	Yes	12.01.2023	9183310	22.01.23

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					<p>conditions. Approval is subject to managed access to all affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</p> <p><b>2. THAT</b> should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved, subject to Police Permit approval.</p>				
<b>23-005</b>	Little Spring St	88 Walker St, North Sydney NSW 2060	CBD Cammeraygal, North Shore	Temporary Road Closure	<p><b>1. THAT</b> Council raise no objection to the temporary road closure of Little Spring St in North Sydney on 10.02.23 &amp; 13.02.23-14.02.23, for the purpose of hoarding removal, as per the submitted application and council's standard road closure conditions. Approval is subject to managed access to all affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</p> <p><b>2. THAT</b> should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved,</p>	Yes	31.01.2023	9188845	10/13/14 Feb 2023

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					subject to Police Permit approval.				
23-013	Spring St	88 Walker St, North Sydney	CBD, Cammeraygal, North Shore	Temporary Road Closure	<p>1. <b>THAT</b> Council raise no objection to the temporary road closure Spring St in North Sydney on 02.03.23-03.03.23 &amp; 06.03.23-08.03.23 &amp; 13.03.23, for the purpose of hoarding removal, as per the submitted application and council's standard road closure conditions. Approval is subject to managed access to all affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</p> <p>2. <b>THAT</b> should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved, subject to Police Permit approval.</p>	Yes	21.02.2023	9246942	2,3,6-8,13/2023
23-014	Little Spring St	124 Walker St	CBD, Cammeraygal, North Shore	Temporary Road Closure	<p>1. <b>THAT</b> Council raise no objection to the temporary road closure Little Spring St in North Sydney on 03.03.22-04.03.23, for the purpose of mast climbers' removal, as per the submitted application and council's standard road closure conditions. Approval is subject to managed access to all</p>	Yes	21.02.2023	9249762	3&4 Mar 2023

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					<p>affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</p> <p>2. <b>THAT</b> should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved, subject to Police Permit approval.</p>				
<b>Special Use Zones</b>									
23-007	Bridgeview	1 Bridgeview Ave, Cammeray	The Plateau, St Leonards, Willoughby	Install a Works Zone	1. THAT a 7m Works Zone on Bridgeview Avenue, Cammeray to be approved under delegated authority of Council's Traffic Engineer, with the same conditions pending lodgement of a Work Zone application and payment of all applicable fees. For an initial period of 33 weeks	Yes	27.01.2023	9197243	
<b>Regulatory Signs</b>									
23-006	High St	42 High St, North Sydney	CBD, Cammeraygal, North Shore	Motorbike Parking	1. THAT motorbike parking spaces x 2 signs and lines be installed between the existing driveway of 42 High St, North Sydney NSW 2060	Yes	27.01.2023	9194015	
23-011	Mount Street	107 Mount Street, North Sydney	CBD, Cammeraygal, North Shore	Motorbike Parking	<ul style="list-style-type: none"> <li>• <b>THAT</b> Council realigns the 4 parking bays for parking meter 3902.</li> <li>• <b>THAT</b> Council installs 2.9 m of "Motorbike Only" parking to</li> </ul>	Yes	20.02.2023	9261158	



No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					the East of bay 1 of meter 3902, before Little Walker Street.				
<b>Signs Across Driveways</b>									
<b>23-002</b>	Pine Street	35 Pine Street, Cammeray	The Plateau, St Leonards, Willoughby	Driveway line marking	<b>1. THAT</b> Council installs a driveway line marking on the eastern side of the driveway to No. 35 Pine Street, Cammeray	Yes	27.01.2023	9182603	
<b>23-016</b>	Shellcove	63 Shellcove Rd, Kurraba Point NSW 2089	Neutral, Cammeraygal, North Shore	Driveway line marking	<b>1. THAT</b> Council install driveway line markings across the driveway to no. 63 Shellcove Rd Kurraba Point NSW 2089	Yes	22.02.2023	9290778	
<b>22-133</b>	Lytton Street	Lytton Street, Cammeray	The Plateau, St Leonards, Willoughby	Driveway line marking	<b>1. THAT</b> Council paint lines on either side the driveway at 9 Lytton St, Cammeray NSW 2061	Yes	22.12.22	9165288	
<b>22-134</b>	Cammeray Rd	45 Cammeray Rd, Cammeray NSW 2061	Registry, St Leonards, Willoughby	Driveway line marking	<b>1. THAT</b> Council paint lines on either side the driveway at 45 Cammeray Road CAMMERAY 2061	Yes	22.12.22	9165292	
<b>Warning Signs</b>									
Nil									
<b>Construction Management Plan</b>									
<b>23-008</b>	Carter Street	69A Carter Street, Cammeray	Bay, St Leonards, Willoughby	CTMP	<b>1. THAT</b> the traffic aspects of the Construction Traffic Management Plan dated 25 <sup>th</sup> October 2022 prepared by PDC Consultants of the approved development (Development Consent 263/20) at 69A Carter Street, Cammeray be approved subject to the conditions of approval.		09.02.2023	9259309	
<b>23-009</b>	Blues Point Road	101 Blues Point Road, McMahon's Point	Lavender Bay, Cammeraygal, North Shore	CTMP	<b>1. THAT</b> the traffic aspects of the Construction Traffic Management Plan dated 19 <sup>th</sup>	Yes	01.02.2023	9259327	

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					December 2022 prepared by Park Transit Parking & Traffic Design of the approved development (Development Consent 271/19/3) at 101 Blues Point Road, McMahons Point be approved subject to the conditions of approval.				
23-010	Wilson Street	30 Wilson Street, Cammeray	The Plateau, St Leonards, Willoughby	CTMP	1. <b>THAT</b> the traffic aspects of the Construction Traffic Management Plan dated 13 <sup>th</sup> January 2023 prepared by Positive Traffic of the approved development (Development Consent 179/21) at 30 Wilson Street, Cammeray be approved subject to the conditions of approval.	Yes	25.01.2023	9259114	
23-012	Holbrook Avenue	11 Holbrook Avenue, Kirribilli	Bradfield, Cammeraygal, North Shore	CTMP	1. <b>THAT</b> the traffic aspects of the Construction Traffic Management Plan dated January 2023 prepared by Traffix Traffic and Transport planners of the approved development (Development Consent 130/19) at 11 Holbrook Avenue, Kirribilli be approved subject to the conditions of approval. 2. <b>THAT</b> a 5.6m Works Zone on Holbrook Avenue in this CTMP to be approved under delegated authority of Council's Traffic Engineer, with the same conditions pending lodgement of a Work Zone	Yes	09.02.2023	9276918	

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
					application and payment of all applicable fees.				
<b>Australian Road Rules Compliance Signs</b>									
Nil									
<b>Traffic Facilities</b>									
Nil									
<b>Council Decisions</b>									
Nil									

## **6. Informal Items for Consideration**

### **6.1. Standing Item - Pedestrian Safety**

**AUTHOR:** Iman Mohammadi, Traffic and Transport Engineer

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:**

1. Standing Item - Pedestrian Safety - attach March 2023 [6.1.1 - 7 pages]

**PURPOSE:**

To provide a report to the Committee on current pedestrian safety matters and projects, and their current status.

**EXECUTIVE SUMMARY:**

At the 530th Traffic Committee meeting on 7 February 2020, it was recommended that pedestrian safety be added to the agenda as a standing item. A list of current pedestrian safety standing items and their current status is attached.

**FINANCIAL IMPLICATIONS:**

There are no financial implications arising directly from this report.

**RECOMMENDATION:**

1. **THAT** the information concerning Standing Item - Pedestrian Safety be received.

## **LINK TO COMMUNITY STRATEGIC PLAN**

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
  - 2.1 Infrastructure and assets meet community needs
  - 2.3 Sustainable transport is encouraged

## **BACKGROUND**

At the 530th Traffic Committee meeting on 7 February 2020 it was recommended that pedestrian safety be added to the agenda as a standing item.

## **CONSULTATION REQUIREMENTS**

Community engagement is not required.

**Relates to ECM No:** N/A

**Standard or Guideline Used:** N/A

**Signs & Lines Priority:** N/A

**Precinct and Ward:** All Precincts, All Wards

**Impact on Bicycles:** Impacts on cyclists will be assessed for individual projects when they are reported to the Committee in detail.

**Impact on Pedestrians:** This report highlights current projects that benefit pedestrians

**Impact on Parking:** Impacts on parking will be assessed for individual projects when they are reported to the Committee in detail.

## **DETAIL**

The table below has the current status of projects that relate to pedestrian safety.

Standing Item - Pedestrian Safety  
Traffic Committee 17 March 2023

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
20/01	Bligh Street, Kirribilli	Between Broughton Street and Humphrey Place	20/3/20	Request for Shared Zone	Mayor Gibson has requested a Shared Zone be implemented in Bligh Street due to narrow footpaths and high pedestrian activity in the street.	<p>Bligh Street Shared Zone is listed in Council's Zone 7 LATM Action Plan as a long term priority (T.17).</p> <p>Bligh Street Shared Zone is also listed in Council's Draft 40km/h and 10km/h Shared Zone Masterplan as a long term priority.</p> <p>A Shared Zone for Bligh Street is being implemented as part of the DPIE Streets as Shared Spaces Program.</p> <p>A proposal to construct a permanent shared zone in Bligh Street has been submitted under Active Transport Walking &amp; Cycling Program for funding.</p>	
20/02	Various	Various	8/7/20	Blackspot Grant Funded Projects 2020/21	<p>Council was successful with grant funding applications for 4 locations under the Federal Black Spot Program.</p> <p>Design, consultation and construction is scheduled for 2020/21 financial year.</p>	<p>Projects include:</p> <ol style="list-style-type: none"> <li>1. Hazelbank St/Morton St - move stop lines forward &amp; install refuge island (TC 5/2/21 - Item 4.6; TC 19/3/21 - Item 4.5) (Completed)</li> <li>2. Kurraba Road near Hayes St - raise existing pedestrian crossing (Completed)</li> <li>3. Lavender St at Walker St - raise existing pedestrian crossing (TC 5/2/21 - Item 4.7)(Completed)</li> <li>4. Ben Boyd Road between Lindsay Street and Kurraba Road - traffic calming (TC 19/3/21 - Item 4.4) (Further investigation is being undertaken) TfNSW has agreed to roll over the funding to FY22-23.</li> </ol>	

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
20/03	Various	Various	20/3/20	Pedestrian Crossing Audit	Council's Traffic Engineer completed an audit of all existing pedestrian crossings to prioritise upgrade of existing flush pedestrian crossings to raised crossings.	<p><b>Crossings to be upgraded in 2020/21 include:</b></p> <ol style="list-style-type: none"> <li>1. Clark Road at Margaret Street (Completed)</li> <li>2. Ben Boyd Road at Hardie Street (Completed)</li> <li>3. Carabella Street at Fitzroy Street (TC 5/2/21 - Item 4.8)(Completed)</li> </ol> <p><b>Crossings to be upgraded in 2021/22 include:</b></p> <ol style="list-style-type: none"> <li>1. Burton Street at St Aloysius Junior School, Kirribilli - Was ot supported by Community</li> <li>2. Clarke Street at Willoughby Road, Crows Nest (Design completed, community consultation closed on 13 March 22, a TDA has been prepared and submitted to TC on 22 March 22) - Approved under TDA 22/022 - Ready for construction – Waiting for Council's PM to award the contract</li> <li>3. Waters Road at Grosvenor Street, Cremorne (Design completed, community consultation is being undertaken close on 13 March 22). reported to 22 April TC. Ready for construction – Waiting for Council's PM to award the contract</li> <li>4. Morton Street at Rocklands Road, Wollstonecraft. (Design completed, community consultation finished and a TDA prepared and approved by TC, the project passed to project team for action) - Construction is complete</li> <li>5. Crows Nest Rd/ McHatton St – ped refuge - Community Consultation was concluded 20 March 2022) – Approved under TDA 22/023 Ready for construction – Waiting for Council's PM to award the contract</li> </ol>	
20/04	Military Road. Neutral Bay	At Young Street	4/9/20	Pedestrian safety issue	Council received representations of a reported recent near-miss between a pedestrian and a bus at the signalised crossing on the northern side of Military Road near Young Street, and suggestions for more a definitive transition between the footpath and the road at the kerb.	<p>A review of the most recent 5-year crash data revealed no crashes involving pedestrians at this crossing.</p> <p>There is pedestrian fencing to the east of the crossing ramp up to Young Street. Site observations revealed that some pedestrians were crossing diagonally outside of the designated crossing. It is not possible to install a fence to the east of the crossing due to existing street trees. A planter box could be installed, however this would not prevent pedestrians walking in between the street furniture.</p> <p>Some pedestrians were also observed waiting close to the traffic lane on the kerb ramp. Installation of "&lt; Look &gt;" stencils on the kerb ramp may reduce this.</p> <p>Site observations found that pedestrians and vehicles did not cross on red signals.</p>	

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
20/06	Moodie Street, Cammeray	Between Ernest Street and Falcon Street	27/11/20	Pedestrian safety	Residents of Moodie Street have raised concerns about pedestrian safety due to lack of footpath in the 100m section south of Ernest Street.	Refer to report 4.4 to the Traffic Committee 27/11/20 and report to 23/7/2021.  Matter deferred until after Council elections & when public is able to address Committee.  Community consultation to be carried out as per the petition received at the March 2022 Traffic Committee - Also a Traffic Impact Assessment (TIA) be prepared by a Traffic Consultant to determine any impacts that the proposed one way may have on the surrounding streets	
21/01	River Road at Russell Street, Wollstonecraft		5/2/21	LATM implementation - pedestrian refuge islands	As part of the implementation of the 2020/21 pedestrian refuge islands are proposed at the intersection of River Road and Russell Street	Refer to report 4.5 to the Traffic Committee 5/2/21. Construction completed August 2021.	
21/02a	Gerard Street at Macpherson Street, Cremorne	Pedestrian crossing	19/3/21	Pedestrian safety at existing pedestrian crossing	At its meeting of 25 February 2019, Council resolved to adopt the following recommendation of the North Sydney Traffic Committee: <i>1. THAT pedestrian signals on Gerard Street at Macpherson Street be expedited as a high priority project and funding be brought forward to progress the project to construction .</i>	A report was considered at the Council meeting on 30 November 2020 where it was resolved:  <i>1. THAT Council write to the Minister for Transport and Roads requesting special consideration for installation of traffic signals at the intersection of Gerard Street and Macpherson Street on the basis of pedestrian safety and amenity, with reference to this report.</i> The letter was sent 5/2/21  <i>2. THAT the following signage changes be referred to the Traffic Committee for installation under delegation of the Manager Traffic &amp; Transport Operations:</i> <i>a. an additional pedestrian crossing sign installed in front of the tree on the southern side of Gerard Street facing west.</i> <i>b. the Give Way sign on the left-hand side of Macpherson Street at Gerard Street be removed so as not to obstruct the pedestrian crossing sign.</i> Approved and signage instruction issued.  <i>3. THAT all line marking associated with the pedestrian crossing including, zebra markings and zig zag markings on approaches, be maintained and refreshed to ensure visibility to the crossing is adequate.</i> Crossing is included in regular maintenance program.  Council received a response from the Parliamentary Secretary for Transport and Roads on 19 April 2021 . The response is not favourable to Council's request for traffic signals and staff will contact Transport for NSW regarding alternate solutions.	8478715



Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
20/02b	Gerard Street at Macpherson Street, Cremorne	Pedestrian crossing	19/3/21	Pedestrian safety at existing pedestrian crossing	At the Traffic Committee meeting 3/9/21 it was recommended: <i>1. THAT Council notes that despite repeated requests to Transport for New South Wales, there has been a refusal to install traffic lights at the crossing on Gerard Street at Macpherson Street. Therefore, Council must find alternative methods to improve pedestrian safety.</i> <i>2. THAT Council urgently remark the pedestrian crossing at Gerard Street and Macpherson Street to make it more visible in accordance with TfNSW standards.</i> <i>3. THAT the crossing at Gerard Street and Macpherson Street be included in the maintenance schedule more frequently.</i> <i>4. THAT Council examine alternative methods of increasing visibility at the crossing at Gerard Street and Macpherson Street within TfNSW standards.</i> <i>5. THAT Council reviews the lighting at the crossing on Gerard Street at Macpherson Street for compliance with the relevant standards for inclusion under</i>	27/9/21: To be investigated/actioned.	

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
21/03	Various Locations	Federal Stimulus	30/4/21	School Pedestrian Crossing Upgrades - Grant Funding	<p>Council has received grant funding under the TfNSW and Federal Government Stimulus Road Safety Program (School Zone Infrastructure) for 14 projects totalling \$1.6M in 2020/21 &amp; 2021/22.</p> <p>The grants will be used to create raised crossings, to extend kerbs and introduce pedestrian refuge islands, which all help improve visibility and slow down traffic, making children safer as they walk to and from school.</p>	<p>The funding has been allocated to upgrade the following crossings:</p> <ul style="list-style-type: none"> <li>- St Aloysius College Junior School: Install two raised pedestrian crossings on the Alfred Street South at Fitzroy Street intersection, Milsons Point COMPLETED</li> <li>- St Aloysius College: Install raised pedestrian crossing on Broughton Street at Kirribilli Avenue, Kirribilli COMPLETED</li> <li>- Loreto Kirribilli: Raise existing crossing on Carabella Street at Fitzroy Street, Kirribilli COMPLETED</li> <li>- St Aloysius College: Raise existing crossing on Clark Road at Margaret Street, North Sydney COMPLETED</li> <li>- Neutral Bay Public School: Raise existing crossing on Ben Boyd Road at Hardie St, Neutral Bay COMPLETED</li> <li>- Cammeray Public School: Raise existing crossing on Carter Street at Colin Street, Cammeray COMPLETED</li> <li>- Cammeraygal High School: Raise existing crossing on Clarke Street at Willoughby Road, Crows Nest - Contract awarded , awaiting for construction to commence</li> <li>- St Aloysius College Junior School: Raise existing crossing on Burton Street, Kirribilli. NOT TO PROCEED (Refer to TC 15/10/21 item 5.2)</li> <li>- Redlands: Raise existing crossing on Waters Road at Grosvenor Street, Neutral Bay (Design completed, community consultation is being undertaken</li> </ul>	
21/04	Military Road. Neutral Bay	At Spofforth Street and Cabramatta Road	24/7/20	Request to amend phasing and cycle times	A resident of Cremorne has requested additional time be added to the pedestrian phase to cross at this intersection, and reduced waiting time between cycles for pedestrians.	1/7/20: The email from the resident was to TfNSW for their attention as the Road Authority for Military Road and all signalised intersections.	
21/05	Grosvenor Lane, Neutral Bay	At Young Street	30/4/21	Pedestrian safety	<p>The Traffic Committee recommended:</p> <ol style="list-style-type: none"> <li>1. THAT "end shared zone" signage in Grosvenor Lane be moved closer to Young Street and add "give way to pedestrian" signage. (7.4)</li> <li>2. THAT Council Staff review the current signage and options for increased safety measures. (7.4)</li> </ol>	<p>16/8/21: Signage changes completed 29/7/21.</p> <p>Further reviews to be undertaken when public health orders permit. An instruction has been issued to relocate the Give Way to Pedestrian signs at Young St intersection to be in front of the trees and lower the STOP signs to normal eye level. A STOP line is also being installed at the exit to Young St where it joins the footpath.</p>	8525757

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
21/06	Young Street, Neutral Bay	At Military Road	30/4/21	Pedestrian Safety	The Traffic Committee recommended: THAT the gaps in the fences on Military Road near Young Street Plaza be closed promptly with appropriate safety fencing. (5.3)	Completed.	
21/07	Miller Street at Amherst Street, Cammeray	Intersection traffic signals	11/6/21	Pedestrian Safety - reports of near misses & recent crashes	<p>On 11/6/21 the Traffic Committee recommended:</p> <p>1. THAT the Traffic Committee acknowledge a recent incident at the intersection of Miller and Amherst Streets which involved the safety of a child crossing the road on the 24 May 2021. Council thank our resident Ms Freeman for bringing this to our attention at the meeting and that this be actioned as a matter of urgency.</p> <p>1a) THAT Council acknowledge the incident and the long history of dangerous driving and incidents at this intersection.</p> <p>2. THAT Council start immediate lobbying to TfNSW to extend the red-light pedestrian protection arrow and add a green right turn arrow phase at the intersection.</p> <p>3. THAT Council TfNSW looks at the intersection of Palmer and Miller Streets in conjunction with this matter.</p> <p>4. THAT Council actively lobby Transport for NSW for a red-light camera to be installed in this location.</p>	<p>16/8/21: Letter sent to TfNSW 19/7/21. Response received 13/8/21 from A/Director Network and Asset Management:</p> <p><i>Road safety, including pedestrian safety, is a top priority for Transport for NSW. I am very sorry to read about the very serious incident you describe, and I wish the people involved a full recovery.</i></p> <p><i>As you may be aware, Transport for NSW installed an extra left and right-turn red arrow at the traffic lights under the 'Green on Green' project in June 2020, to improve safety for pedestrians at this location.</i></p> <p><i>Miller Street is a State Road which caters for high network demands, including public transport to and from the Cammeray area. Installing a dedicated right-turn arrow from Miller to Amherst streets is not supported at this time due to further congestion that would occur on Miller Street.</i></p> <p><i>You may be assured that Transport for NSW will continue to monitor the intersection, to ensure it operates safely and as reliably as possible.</i></p> <p><i>Transport for NSW is reviewing further potential safety measures in this area, including:</i></p> <ul style="list-style-type: none"> <li>• <i>Adjusting the traffic light phasing for both pedestrians and motorists at the intersection</i></li> <li>• <i>Installing a red-light speed camera at this intersection</i></li> <li>• <i>Constructing a pedestrian crossing on the western side of the intersection of Miller and Palmer streets.</i></li> </ul> <p><i>Transport for NSW will continue to update council's local traffic committee on the review of these safety measures.</i></p>	8606280
21/08	Miller Street, Cammeray	Mid-block pedestrian signals at Cammeraygal Place	3/9/21	Pedestrian Safety	Reports of pedestrian crash which occurred on Sunday evening 1/8/21	16/8/21: Request sent to TfNSW 3/8/21 to lengthen pedestrian crossing signal (phasing) b, and suggestion to improve the visibility of the lights. This is being investigated by TfNSW Network Operations.	

Item	Street	Location	First TC	Summary	Problem/Request	Comments	ECM
22/01	Wycombe Road and Yeo Street	Intersection traffic signals	22/4/22	Pedestrian Safety	A left-hand turn signal be placed on the corner of Wycombe Road and Yeo Street, as people feel they can't see properly and there are a lot of near misses	<p>22/07/22: request sent to TfNSW for review - advise is that:</p> <p>"NetOps has no objection to installation of RA protection for pedestrian safety. Please note that both LTRA and RTRA protection must be provided for all pedestrian crossings, not just for one of the crossings. The disadvantage of RA protection is that delay on all approaches may increase.</p> <p>This site is quite close to the intersection of Military Road and Wycombe Road (TCS 613). However, southbound traffic coming from Military Road is not heavy. Therefore the RA protection is not likely to affect TCS 613.</p> <p>TfNSW does not have any funding available at this stage so if council wants to progress with this project NSC will most likely need to fund it. If council wants to proceed please send me a proposal TCS plan and I will start the review process.</p>	

## **6.2. Standing Item - Blues Point Road - Vehicle Noise & Traffic Issues**

**AUTHOR:** Iman Mohammadi, *Traffic and Transport Engineer*

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:** Nil

### **PURPOSE:**

The purpose of this report is to provide an update on previous Council resolutions in regard to traffic management in Blues Point Road, McMahons Point.

### **EXECUTIVE SUMMARY:**

At the Traffic Committee meeting on 19 March 2021, it was recommended that the matter of vehicle noise and traffic issues in Blues Point Road, McMahons Point be kept as a standing item at the Traffic Committee meetings.

The rectification works at Blues Point Reserve was completed by Sydney Metro in December 2022 under the Public Domain Works interface Agreement.

Sydney Metro have made a number of design changes to the construction design plans. Council officers have recently completed practical completion inspections and are checking on the ground works against what was agreed at design stage, also identifying any defects, and are currently preparing comments for the attention of Sydney Metro.

The works included conversion of Blues Point Road at the reserve to a 10km Shared Zone, re-arranging parking spaces and reinstating Henry Lawson Reserve.

This report provides an update on previous Council resolutions in relation to this matter.

### **FINANCIAL IMPLICATIONS:**

Financial implications will be outlined for any proposed measures prior to the matter being considered by Council for adoption.

### **RECOMMENDATION:**

**1. THAT** the updates concerning Standing Item - Blues Point Road – Vehicle Noise & Traffic Issues be received.

## **LINK TO COMMUNITY STRATEGIC PLAN**

The relationship with the Community Strategic Plan is as follows:

2. Our Built Infrastructure

2.4 Improved traffic and parking management

### **BACKGROUND**

A petition was tabled at the Traffic Committee meeting on 12 June 2020 from residents of McMahons Point concerning vehicle noise, illegal parking and street racing in Blues Point Road near Blues Point Reserve. Council has received representations concerning this issue since that time and the matter has been considered by the Traffic Committee on numerous occasions since then. A report was considered at the Traffic Committee meeting on 5 February 2021 where the Traffic Committee recommended a number of interventions for further investigation.

At the Traffic Committee meeting on 19 March 2021, it was recommended that the matter of vehicle noise and traffic issues in Blues Point Road, McMahons Point be kept as a standing item at the Traffic Committee meetings.

### **CONSULTATION REQUIREMENTS**

Community engagement will be undertaken in accordance with Council's Community Engagement Protocol.

**Relates to ECM No:** 8525770; 8446599; 8272680

**Standard or Guideline Used:** Austroads Guide to Traffic Management Part 8: Local Street Management

**Signs & Lines Priority:** N/A

**Precinct and Ward:** Lavender Bay, Wollstonecraft

**Impact on Bicycles:** Nil

**Impact on Pedestrians:** Nil

**Impact on Parking:** Impacts as outlined in reports.

### **DETAIL**

The list of Council resolutions relating to Blues Point Road traffic management and latest updates since the previous Traffic Committee meeting is attached.

### **6.3. Standing Item - Sydney Metro - Project Update**

**AUTHOR:** Iman Mohammadi, Traffic and Transport Engineer

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:** Nil

**PURPOSE:**

The purpose of this report is to update the North Sydney Traffic Committee on the current status of the Metro City & South-West (Metro) project and upcoming works affecting local roads.

Updates are also provided on the Sydney Metro website at <https://www.sydneymetro.info/>

**EXECUTIVE SUMMARY:**

Consent for the Metro City & South-West (Metro) project was granted by the Department of Planning and Environment on 9 January 2017. The consent can be viewed in full at [www.majorprojects.planning.nsw.gov.au](http://www.majorprojects.planning.nsw.gov.au).

The project will deliver new railway infrastructure for Sydney, including two new Metro stations within the North Sydney Local Government Area - at Crows Nest and Victoria Cross (North Sydney Centre). Construction commenced in early 2017, with train operations expected to be underway by 2024.

In accordance with the various conditions of consent, a Traffic and Transport Liaison Group (TTLG) has been established to inform traffic and transport measures during construction and operation of the project. The TTLG is chaired by the Sydney Coordination Office (SCO) and comprises representatives from the relevant Road Authorities, which includes North Sydney Council. The TTLG meets monthly and a smaller group of representatives known as the Traffic Control Group (TCG) meets weekly to discuss impending construction-related traffic management matters.

The Construction Traffic Management Plans (CTMPs) must be developed in consultation with the TTLG. TfNSW is the approval authority for the CTMPs, following endorsement by the SCO.

**FINANCIAL IMPLICATIONS:**

There are no direct financial implications arising from this report.

**RECOMMENDATION:**

**1. THAT** the information concerning Sydney Metro City & South-West Construction Update be received.

## LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

### 2. Our Built Infrastructure

2.1 Infrastructure and assets meet community needs

2.4 Improved traffic and parking management

### 5. Our Civic Leadership

5.2 Council is well governed and customer focused

5.3 Community is informed and consulted

## BACKGROUND

Consent for the Metro City & South-West (Metro) project was granted by the Department of Planning and Environment on 9 January 2017. The consent can be viewed in full at [www.majorprojects.planning.nsw.gov.au](http://www.majorprojects.planning.nsw.gov.au).

The project will deliver new railway infrastructure for Sydney, including two new Metro stations within the North Sydney Local Government Area - at Crows Nest and Victoria Cross (North Sydney Centre). Construction commenced in early 2017, with train operations expected to be underway by 2024.

## CONSULTATION REQUIREMENTS

As this is a state government project, Transport for NSW are responsible for all community engagement relating to the project.

## DETAIL

**Relates to ECM No:** N/A

**Standard or Guideline Used:** N/A

**Signs & Lines Priority:** N/A

**Precinct and Ward:** Various precincts, St Leonards & Cammeraygal Wards

**Impact on Bicycles:** Local cycling access maintained and managed through traffic guidance schemes

**Impact on Pedestrians:** Local pedestrian access may be impacted adjacent to and around the Sydney Metro work sites and managed through traffic guidance schemes.

**Impact on Parking:** Parking adjacent to each construction site has been removed under applications throughout the project to facilitate construction.

There are four (4) construction sites within the North Sydney LGA associated with the Metro project.

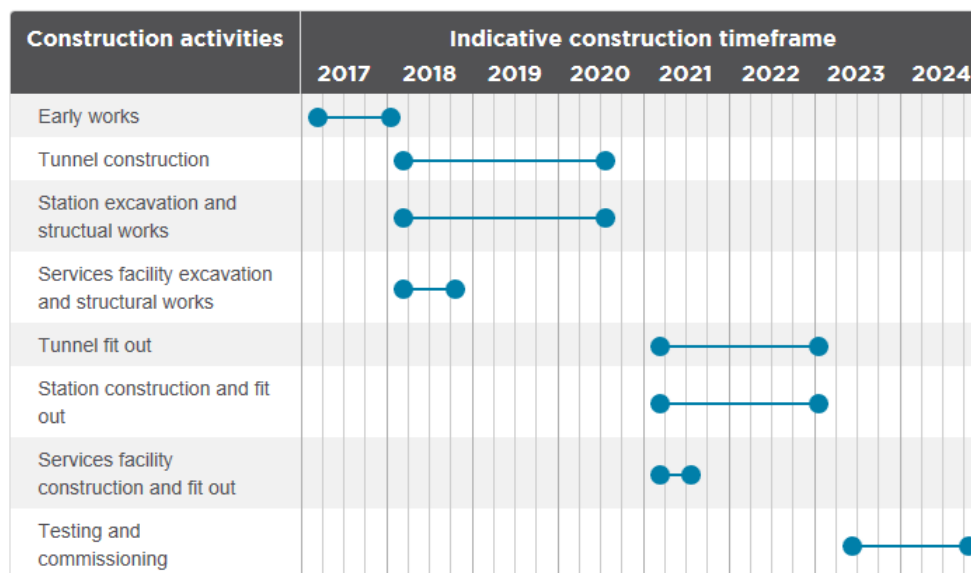
1. **Victoria Cross Station (VC2)** – includes 155-189 Miller Street bounded by Miller Street, Berry Street and Denison Street.



2. **Victoria Cross North (VC1)** –site for the services building and additional access point at 52 McLaren Street (vacant site on northern corner of Miller Street and McLaren Street intersection).
3. **Crows Nest Station (CN)** – includes 497-521 Pacific Highway bounded by Pacific Highway, Oxley Street, Clarke Lane and Hume Street; 14 Clarke Street (Beaurepaires site); and 477-495 Pacific Highway bounded by Pacific Highway, Hume Street and Clarke Lane.
4. **Blues Point Reserve (BP)** – Temporary construction site, including creation of a shaft for the delivery and extraction of tunnel boring equipment. This site is no longer in use since the handover of Blues Point Reserve to Council on 20 December 2022.

The City & Southwest (Chatswood to Sydenham) project has been split into stages. Each stage is subject to separate contracts and may be undertaken by different contractors. An indicative timeline for the full City & Southwest portion is provided below.

## Indicative timeline



Source: Sydney Metro website 26/5/17

Works at each site are currently at station construction/ fit out and linewise trackworks. The key activities are summarised below.

### Update on sites within North Sydney Council area

#### Victoria Cross South

#### [Vic Cross – Construction Updates](#)

Excavation works, formwork steel fitting, deliveries, concrete pouring. Installation of hoardings, site accommodation and tower cranes on Miller Street frontage. Deliveries via Miller Street Work Zone.

Miller Street – major stormwater upgrade works located within southbound, establishment of one-way contra flow – staged night works from March 2022 until first week of May (approx. 4 weeks total). This works is now complete and it is anticipated that further Stormwater works to be undertaken in Denison Street in July 2022 with partial closure of Denison Street and conversion of street to one way traffic for approximately 6-8 weeks

### **Victoria Cross North**

#### [Vic Cross – Construction Updates](#)

Temporary fencing for the McLaren St footpath closure and occupation of parking spaces for pedestrian access during installation of B-Class scaffold in McLaren Street, east of Miller Street.

### **Crows Nest Station**

#### [Crows Nest – Construction Updates](#)

Deliveries occurring from Pacific Highway “logistics lane” – footpath occupation - pedestrians diverted to western side of Pacific Highway. Some concrete pours occurring from Clarke Lane.

Hume Street fully closed to traffic between Pacific Highway and Clarke Lane until 31 December.

Once Hume Street demolition works commence, 12m of footpath from the end of the site towards North will be closed to store construction materials and the remaining will be used for logistics deliveries as per approved ROL from TMC. This arrangement is proposed for 4 months with the provision of B-Class Hoarding to maintain safe pedestrian access.

### **Blues Point**

#### [Blues Point – Construction Updates](#)

DPIE granted modification for continued use of Blues Point site for additional 12 months from December 2020 for linewide track fitout.

The reconfiguration of Blues Point Road from Henry Lawson Avenue to the reserve were completed on 20 December 2022. This area is now a Shared Zone with parking permitted on the western side of the road.



## **6.4. Standing Item - Western Harbour Tunnel & Warringah Freeway Upgrade**

**AUTHOR:** Iman Mohammadi, Traffic and Transport Engineer

**ENDORSED BY:** Jon Higlett, Acting Director Engineering and Property Services

**ATTACHMENTS:** Nil

### **PURPOSE:**

The purpose of this report is to provide an update on current works and impacts associated with the Transport for NSW Western Harbour Tunnel and Warringah Freeway Upgrade project (SSI 8863).

### **EXECUTIVE SUMMARY:**

The Western Harbour Tunnel and Warringah Freeway Upgrade project SSI 8863 was approved by the Minister for Planning and Public Spaces on 21 January 2021. The project is being undertaken by Transport for NSW.

Warringah Freeway Upgrade Early Works commenced in April 2021 and impact on a number of Council roads adjacent to and alongside the Warringah Freeway. Transport for NSW has exercised functions of a roads authority under the Roads Act 1993 for those roads.

This report provides a high-level overview of the current work sites and summary of complaints received by Council.

### **FINANCIAL IMPLICATIONS:**

There are no direct financial implications arising from this report.

### **RECOMMENDATION:**

**1. THAT** the information concerning the Western Harbour Tunnel and Warringah Freeway Upgrade project be received.

## LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

### 2. Our Built Infrastructure

2.1 Infrastructure and assets meet community needs

2.4 Improved traffic and parking management

### 5. Our Civic Leadership

5.2 Council is well governed and customer focused

5.3 Community is informed and consulted

## BACKGROUND

The Western Harbour Tunnel and Warringah Freeway Upgrade project SSI 8863 was approved by the Minister for Planning and Public Spaces on 21 January 2021. The project is being undertaken by Transport for NSW.

Warringah Freeway Upgrade Early Works commenced in April 2021. The works impact on a number of Council roads adjacent to and alongside the Warringah Freeway. All community notifications are available on the Western Harbour Tunnel and Warringah Freeway Upgrade webpage at <https://caportal.com.au/rms/wht/documents-and-notifications>

## CONSULTATION REQUIREMENTS

As this is a state government project, Transport for NSW are responsible for all community engagement relating to the project.

## DETAIL

**Relates to ECM No:**

**Standard or Guideline Used:**

**Signs & Lines Priority:** N/A

**Precinct and Ward:** Hayberry/ Registry/ Stanton/ Neutral/ Anderson/ CBD; Tunks/ Victoria/ Wollstonecraft

**Impact on Bicycles:** Local cycling access may be impacted adjacent to and around the WHT/WFU work sites under traffic management

**Impact on Pedestrians:** Local pedestrian access may be impacted adjacent to and around the WHT/WFU work sites under traffic management

**Impact on Parking:** Approximately 75 parking spaces on Alfred Street North; 35 spaces on Cammeray Avenue and 10 spaces on Ridge Street have so far been removed by TfNSW to facilitate the works.

The Western Harbour Tunnel Project requires installation of electricity supply cables within various public roads to provide power to its various Project worksites. The works area is shown on the attached map. It is expected that works are completed by 31 March 2023.

The works on Active Transport Link (ATL) within the Cammeray Golf Course connecting Ernest Street to Warringah Road is complete. The Works on the Amherst Noise wall has also been commenced and almost Complete.

Council has received numerous notices from Transport for NSW under 64(1A) of the Roads Act 1993 of their intention to exercise functions of a road's authority. This means that TfNSW has the same powers under the Roads Act 1993 as Council for the roads listed in each notice.

## **7. Local Development Advisory Committee Items for Consideration**

Nil

**8. General Business**

**9. Closure**