# 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.
- 2. THAT Council proceeds to tender and construction documentation stage for West Street Cycleway Stage 1. 3.
- 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





# 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	
C1.001	GENERAL NOTES	
C1.101	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	SITEWORKS PLAN - SHEET 1	
C3.002	SITEWORKS PLAN - SHEET 2	
C3.003	SITEWORKS 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 FROSION 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

Traffic Committee Meeting - 17 March 2023 Agenda

NORTH SYDNEY COUNCIL 200 MILLER STREET

LEVEL 7 80 WILLIAM STREET



ACOR Consultants Pty Ltd Suite 2. Level 1, 33 Herbert Street

WEST STREET ACTIVE TRANSPORT

ACIFIC HIGHWAY TO RIDGE STREET

NOT FOR CONSTRUCTION Drawing Title COVER SHEET

#### **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.
- 2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
- 3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- 4. ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES
- 5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND
- WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL
  AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 8. 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.
- 10. BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- 11. REFER TO GROUP GSA DRAWINGS ?????? SERIES FOR DEMOLITION WORKS.
- THE CONSTRUCTION CONTRACTOR SHALL COORDINATE WITH THE ADJACENT SCHOOL AND BUSINESSES TO STAGE AND UNDERTAKE WORKS SO
  AS NOT TO CAUSE INCONVENIENCE TO THOSE ENTITIES AND MINIMISE DISTURBANCE TO THE ACCESS AND OPERATIONS OF THOSE ENTITIES.
- 14. THE CONSTRUCTION CONTRACTOR SHALL KEEP INFORMED ALL RESIDENTS ADJACENT. THE WORKSITE OF CONSTRUCTION ACTIVITIES THAT MAY AFFECT THE EXISTING ACCESS TO THEIR PROPERTIES AND MINIMES DISTURBANCE TO THE EXISTING ACCESS TO THEIR PROPERTIES
- 15. ALL DESIGN TRAFFIC LOADINGS (ESAs) HAVE BEEN BASE UPON NORTH SYDNEY CITY COUNCIL'S DESIGN CRITERIA FOR THE DEFINED ROAD CATEGORY CONTRACTOR TO COMPRIM DESIGN ESAs WITH COUNCIL PRIOR TO COMMENCEMENT OF THE WORKS AND TO NOTIFY THE DESIGN ENGNEER OF AND DISCREPANCE.

#### 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.
- 2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED
- 3. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION
- 4 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 ASTAZ.
- 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.

#### SITEWORKS NOTES

- 1 ORIGIN OF LEVELS '- AUSTRALIAN HEIGHT DATUM (A H D.)
- 2. 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.
- 4. EXISTING SERVICES HAVE BEEN FLOTTED FROM SUPPLIED DATA AND AS SUCH THEM ACCURACY COMBOT BE CURRANTEED. IT IS THE BESTANDARD HAVE OF THE CONTINUENCE TO EXTRAIN SHIFT LOCATION AND LEVEL OF EACH LEXISTING SERVICES SHORD TO THE COMMERCEMENT OF ANY WORK, ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE CLEARANCES SHALL BE GETAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ORTAINED.
- 6 THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOLET 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.
- 8. 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 1289.5.1.1.
- 9. ALL TRENCH BACKFILL MATERIAL NOT SUBJECT TO VEHICULAR LOADS SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAYEMENTS.
- 11 CONTRACTOR TO ORTAIN ALL ALITHORITY APPROVALS
- 12. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100MM TOPSOIL AND KIKUYU LAID AS TURF
- 13. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- 14. 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
- 15. 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 880 uPVC 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.

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#### 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 HEADIJISHT BEAM (LINE OF SIGHT.
- 2 ALL SIGNAGE TO BE CLEAR OF ALL VEGETATION AND OBSTRUCTIONS
- 3 SIGNS TO BE INSTALLED IN ACCORDANCE WITH AS1742
- 4. THE LOCATION OF ALL EXISTING SIGNS TO BE CONFIRMED PRIOR TO COMMENCING WORK. ENSURE ADOPTED METHOD OF CONSTRUCTION WILL
- 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.
- 6. ALL EXISTING LINE MARKING EFFECTED BY THE NEW WORKS AND NOT OTHERWISE CONFLICTING WITH PROPOSED LINE MARKING IS TO BE REINSTATED.
- 7 FOR DEMOVAL OF LINE MADKING DEED TO DMS OF INFATION CLIDELINE SECTION 14
- 8. 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 TOWNES) IN THE PRESENCE OF THE PRINCIPAL. REFER TO SPECIFICATION FOR DETAILS.
- ALL SOFT, WET OR LINSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE PRINCIPAL AND REPLACED WITH APPROVED MATERIA
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE PRINCIPAL AND SHALL COMPLY WITH THE FOLLOWING
   BEEFROM ORGANIC. PERISHABLE AND CONTAMINATED MATTER
- MAXIMUM PARTICLE SIZE 75MM PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200MM THICK LAVERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR -2%) TO ACHIEVE A DRY DEHSITY DETERMINED IN ACCORDANCE WITH AS 1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH 8.1289 E1.1:

LOCATION	STANDARD MAXIMUM DRY DENSITY (SMDD)
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS A	ND CARPARKS 98%
LANDSCAPED AREAS	90%

- THE CONTRACTOR SHALL PROCAMAL THE EARTHMORSS OPERATIONS OF THE MODERNA AREA AND ACCURATE VIOLENCE DURING THE PREDICT OF CONTRACTION, THE SERRECK SHALL BE GOADER ON SEALED FOR THE PROPERTIES OFFICE SHALL BEARS AND SHALL WHICH WOLD ALLOW WATER TO PROVA DAY DEVERTABLE THE MODERN YAYO MATERIAL ANY COMMAND RESISTING FROM THE CONTRACTOR NOT OSERWING THESE EXCURREMENTS SHALL BECTIFIED THE THE OTHER CONTRACTOR AT THE THE OFFI SERVING THE SHALL SHAL
- 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

  1. ALL VEHICULAR PAVEMENT TO BE JOINTED AS SHOWN ON DRAWINGS.
- 2. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTERS.
- 3. WEARING COURSE LONGITUDINAL JOINT SHALL BE LOCATED WITHIN ±25mm OF LINE MARKING OR IN THE CENTER OF A LANE.
- 4 LONGITUDINAL JOINT IN ASPHALT LAYERS SHALL BE OFFSET 150mm MINIMUM FROM JOINTS IN LINDERLYING LAYER

PEDESTRIAN FOOTPATH JOINTING
1. ALL PEDESTRIAN FOOTPATH JOINTING LAYOUTS AS PER NORTH SYDNEY COUNCIL STANDARD CONCRETE FOOTPATH DETAIL - \$104A

#### NORTH SYDNEY COUNCIL SPECIFICATION

ALL WORKS SHALL COMPLY WITH NORTH SYDNEY COUNCL'S "INFRASTRUCTURE SPECIFICATION FOR ROADWORKS, DRAINAGE AND MISCELLANEOUS WORK"

#### ASPHALTIC CONCRETE NOTES

- GENERAL

  a. MINERAL ACGRECATES TO COMPLY WITH AUSTRALIAN STANDARDS

  b. MINERAL FILLER TO COMPLY WITH AS 23ST MINERAL FILLERS OR ASPIALT.

  c. BITIMEN BROKES SHALL COMPLY WITH AS 2005

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  - MAX PROPORTIONS

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- TACK COAT

  a. THE WHOLE OF THE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COATED WITH RAPID SETTING

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  THE WHOLE OF THE WHOL THE WINCE OF THE WAREN TO BE SHEETED WITH ASSESSED CONCRETE SIMILE BE LIGHTLY AND EVENET CONTED WITH AS BITUMEN COMPLYING WITH AUSTRALIAN STANDARDS. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.30 LITRESISQUARE METRE. APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH SPRAY BAR.
- SPREADING
  a. 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 TEMPERATURES (°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
- THE MINIMI IM COMPACTED THICKNESS IS 30mm OVER EXISTING SEALED PAVEMENTS AND 50mm OVER NEW PAVEMENTS
- JOINTS

  8. THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE SHALL BE KEPT TO A MINIMUM.

  b. THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SMILLAR TO THOSE OF THE REMANDER OF THE LAYER.

- COMPACTION

  A LAL COMPACTION SHALL BE URSESTIMEN USING SILE PROPELLED ROLLEDS

  A LAL COMPACTION SHALL BE COMPACTE REPORT FOR URSESTIMEN FALLS BELOW NOTC

  BECOMMENT ACLILING SHALL BE COMPACTED BECOME FOR SHALL BE BESTORD FOR THE ATTEMPTATION FALLS BELOW NOTC

  MINIMUM CHARACTERISTICS VALUE OF RELATIVE COMPACTION OF A LOT WHEN TESTED IN ACCORDANCE WITH ASSISS.
- FINISHED PAVEMENT PROPERTIES

  a. FINISHED SURFACES SHALLE 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 STRANGHT EDGE LAD IN ANY DIRECTION BY MORE

#### CONCRETE NOTES

- ERAL.
  ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3800 CURRENT EDITIONS WITH AMENDMENTS, AND THE ACSE CONCRETE
  SPECIFICATION EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE SURVEYOR.
- 3 DO NOT ORTAIN DIMENSIONS BY SCALING THE DRAWINGS
- 4. IN CASE OF DOUBT ASK

# DESIGN LOADS

CONDETE:

1. NOT WITH STANDING RCC STANDARD DRAWING DETAILS FOR CONCRETE TARGET COMPRESSIVE STRENGTH, PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH PC AS DEFINED IN AS 3500 OR M.F. FORM 509, ADD WATER REDUCING ADMOSTLARE EQUAL TO TOMAC.

LOCATION	AS.3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
ALL KERB PITS ETC.	32	80	20
VEHICULAR PAVEMENTS	32	80	20
PEDESTRIAN FOOTPATH	32	80	20

- 2 LISE GENERAL RURRING PORTLAND CEMENT LINESS OTHERWISE AGREED WITH COLINCIL
- 3. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS 3600

#### REINFORCEMENT 1 REFER TO DETAILS SHEET FOR REINFORCEMENT

2. MINIMUM COVER FOR REINFORCEMENT TO BE 40mm UNLESS OTHERWISE NOTED.

# CURING 1. 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.
- 3. 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 35°C, SPRAY THE EXPOSED SURFACE OF THE CONCRETE PAVEMENT / SLAB DURING THE PLACING OF FINISHING OPERATION WITH A FINE FILM OR APPROVED ALIPHATIC ALCOHOL. REPEAT THE SPRAY IF THE SPRAY SURFACE HAS BEEN
- 8. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON-SITE PRIOR TO CONCRETE WORKS.

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**GROUPGSA** LEVEL 7 80 WILLIAM STREET NORTH SYDNEY, NSW 2060 PHONE : 02 9936 8100 EAST SYDNEY, NSW 2011 PHONE : +61 2 9361 4144 FAX : +61 2 9332 3458







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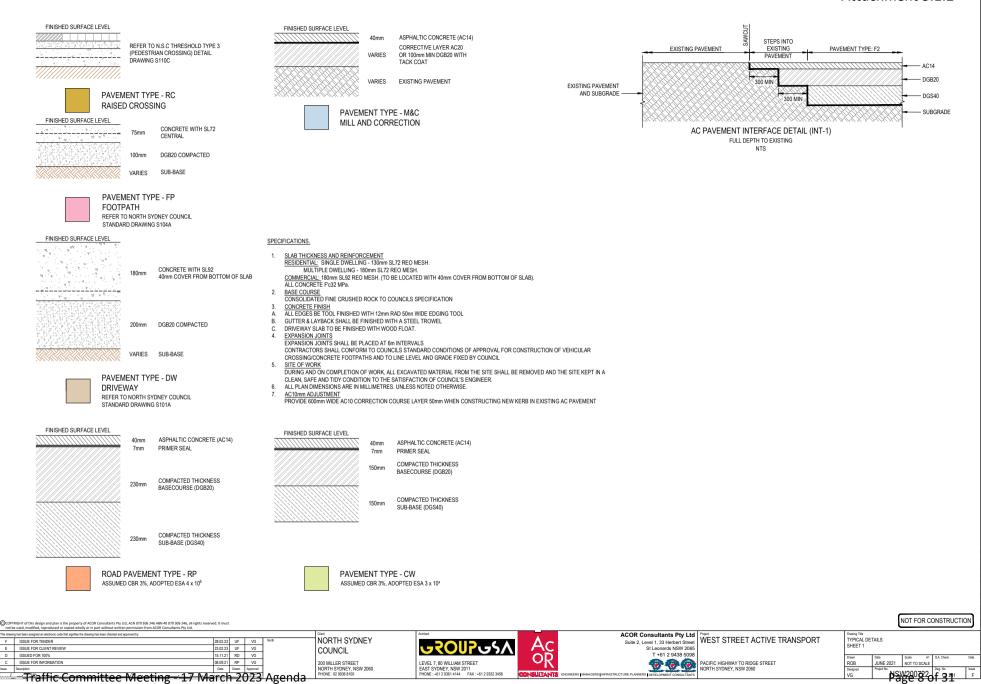
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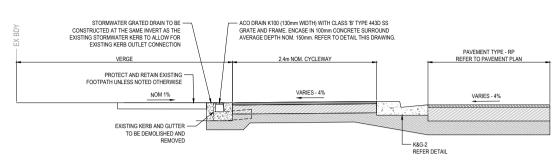
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GENERAL NOTES

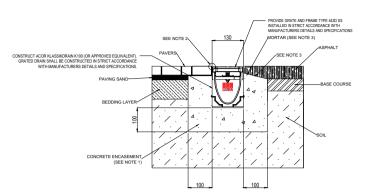
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200 MILLER STREET





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



## TYPICAL K100 GRATED DRAIN DETAIL (EXCLUDING DRIVEWAYS)

- 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.

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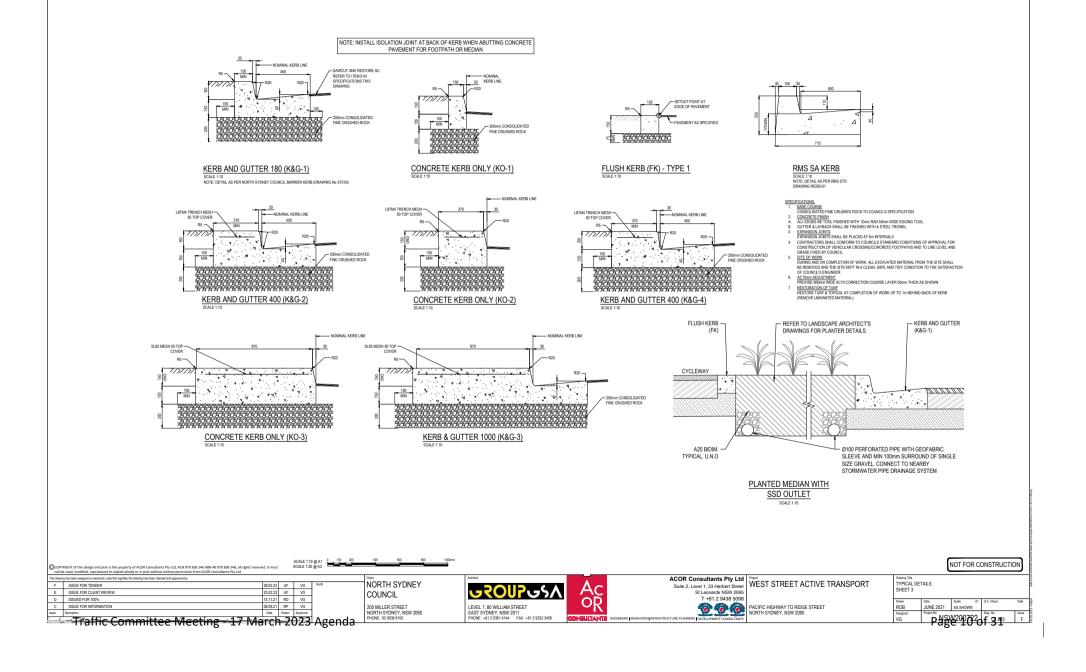
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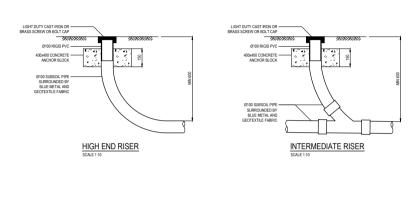
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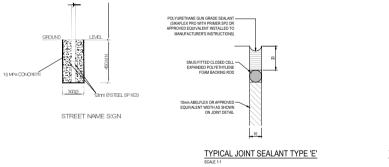
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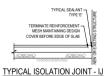
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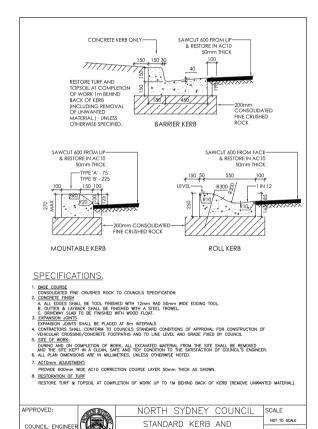
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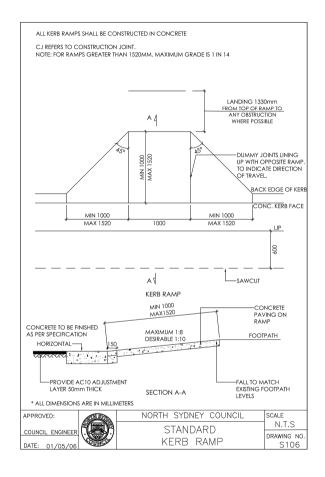
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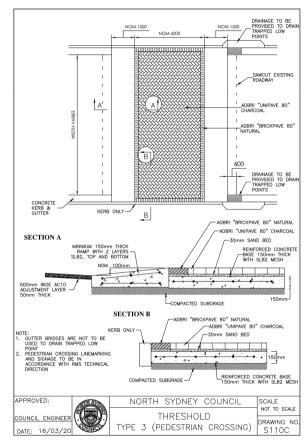
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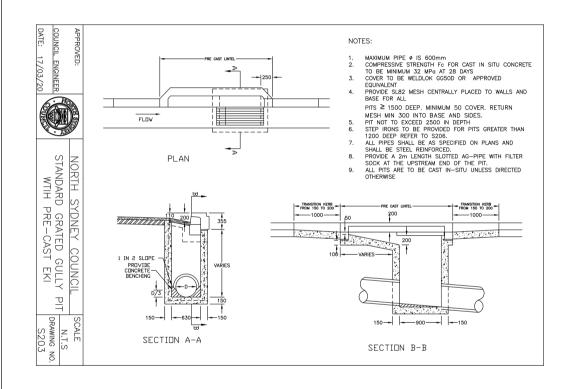
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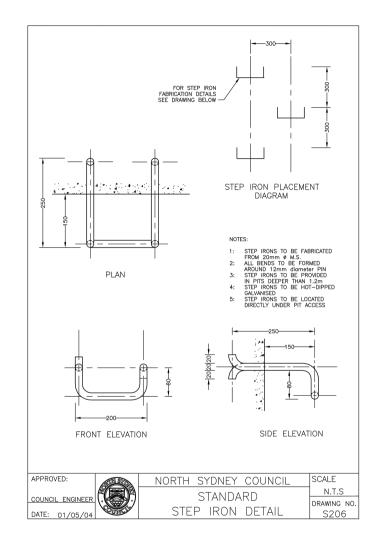
TYPICAL DETAILS SHEET 5

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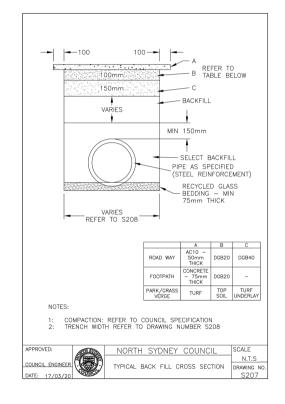
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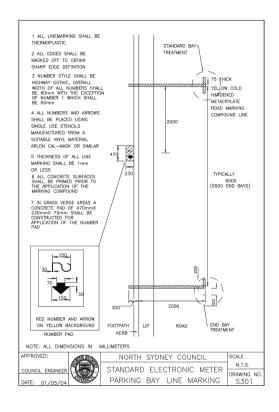
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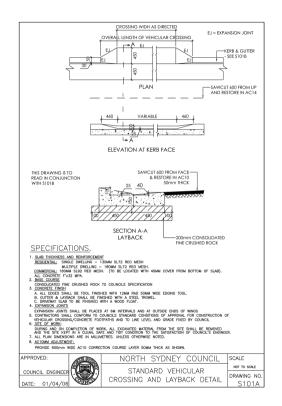
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	С	ISSUE FOR INFORMATION	08.09.21	RP	VG		
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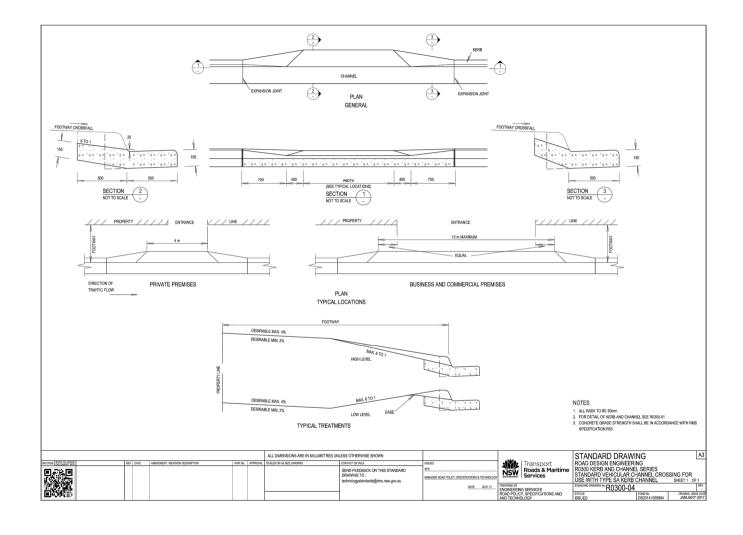
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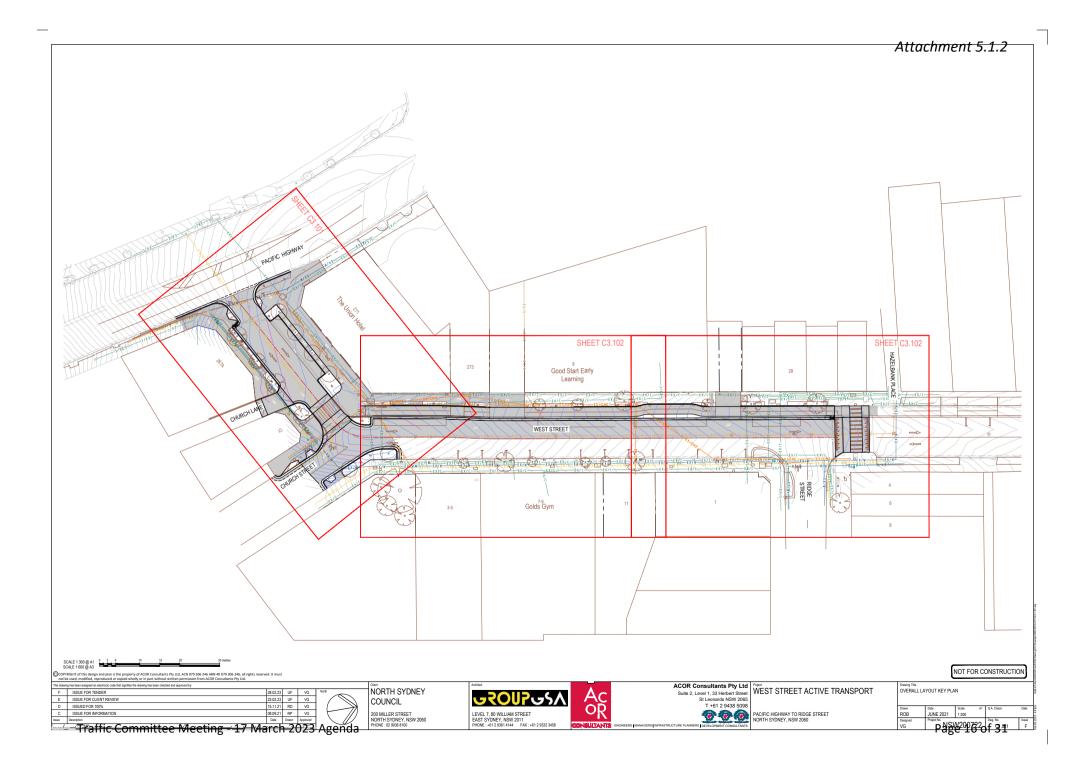
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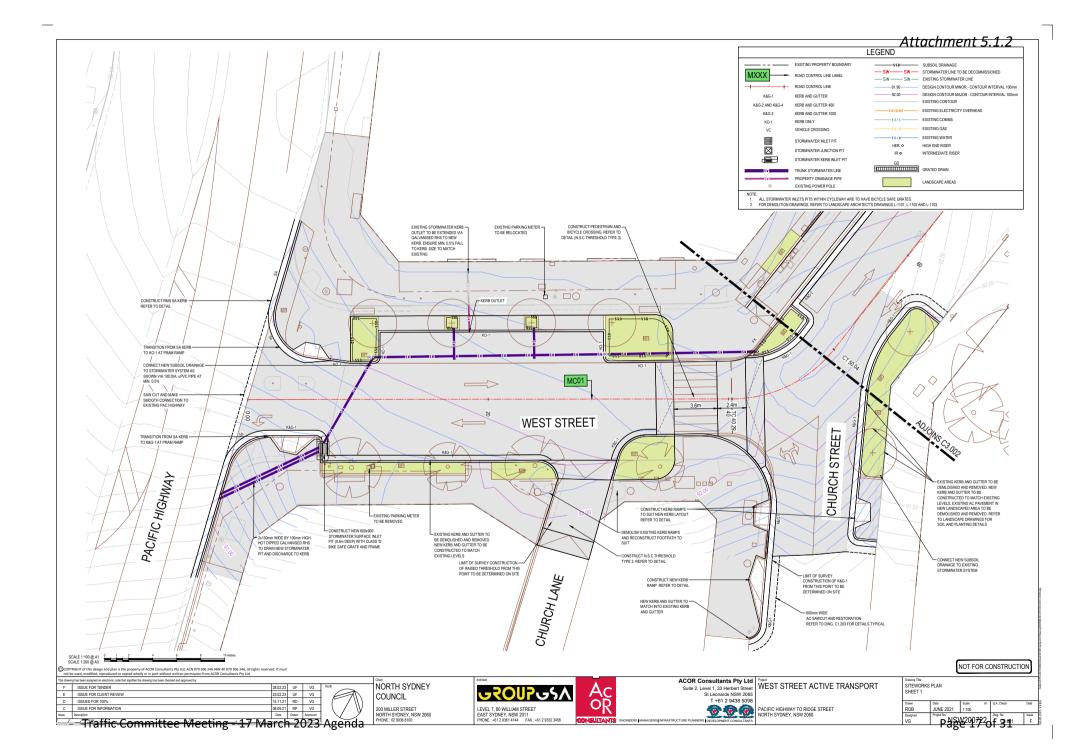
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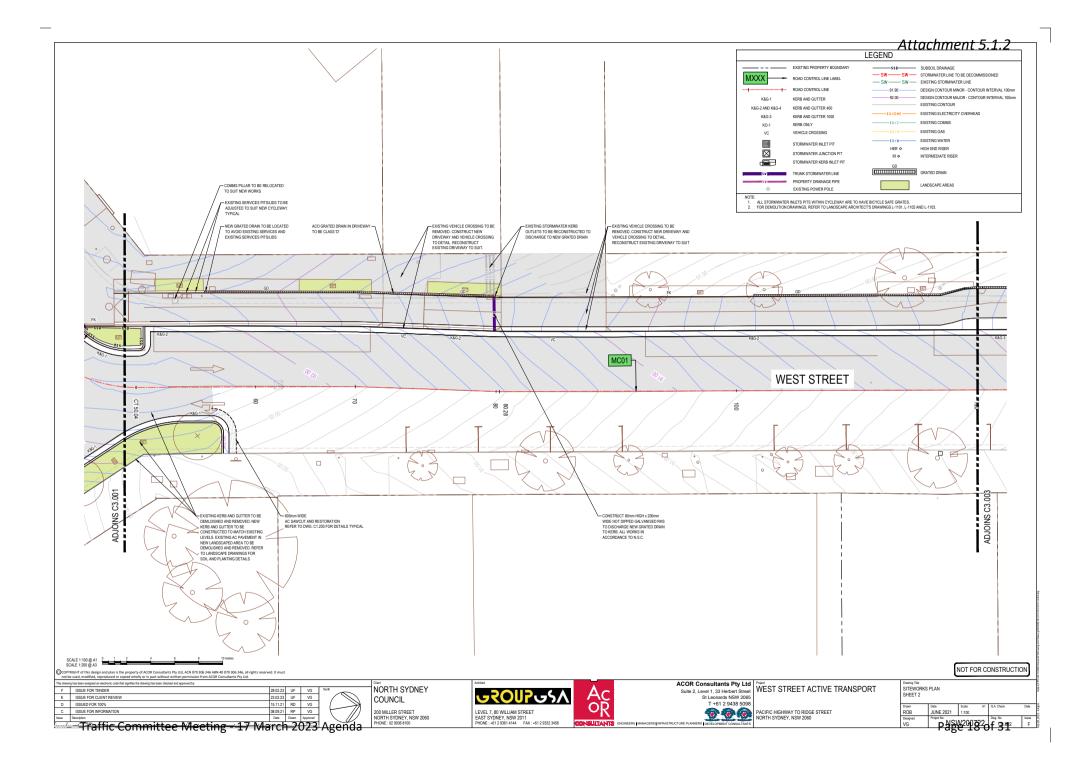
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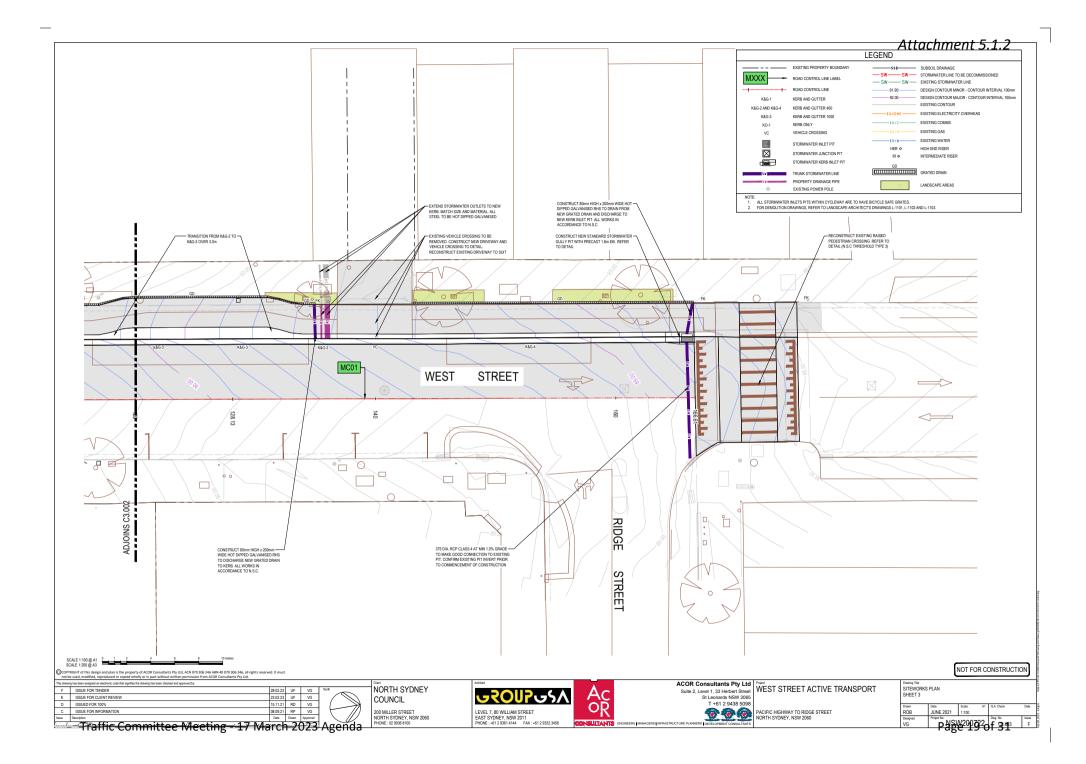
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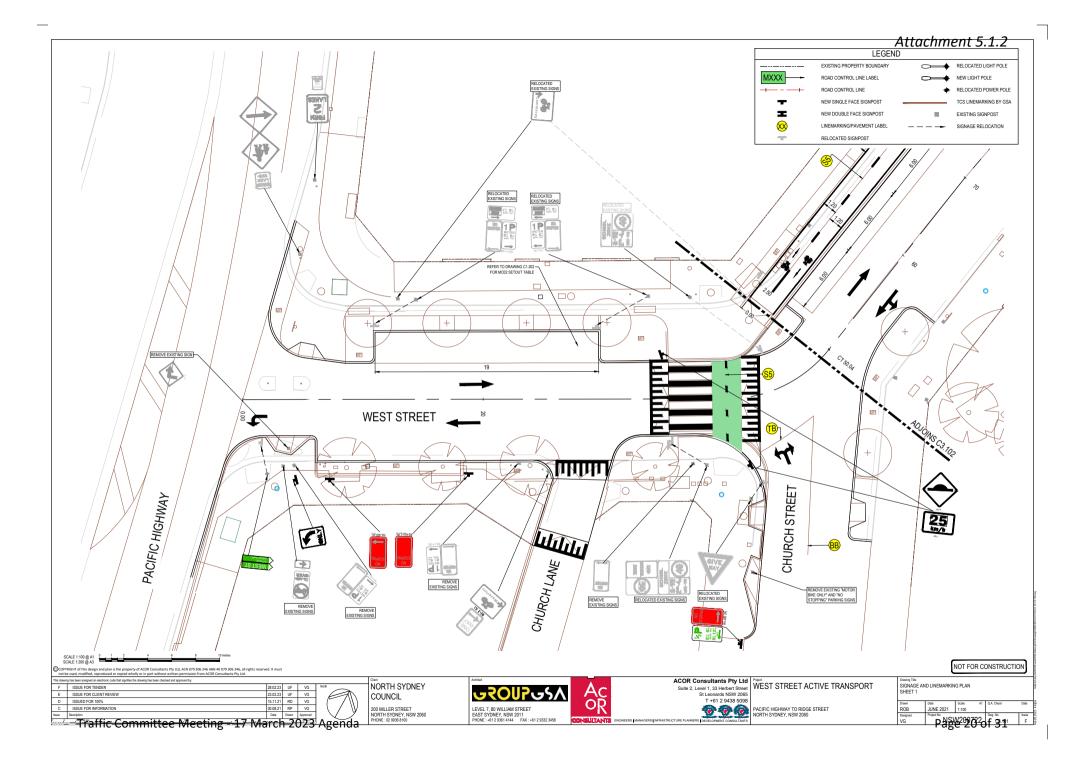
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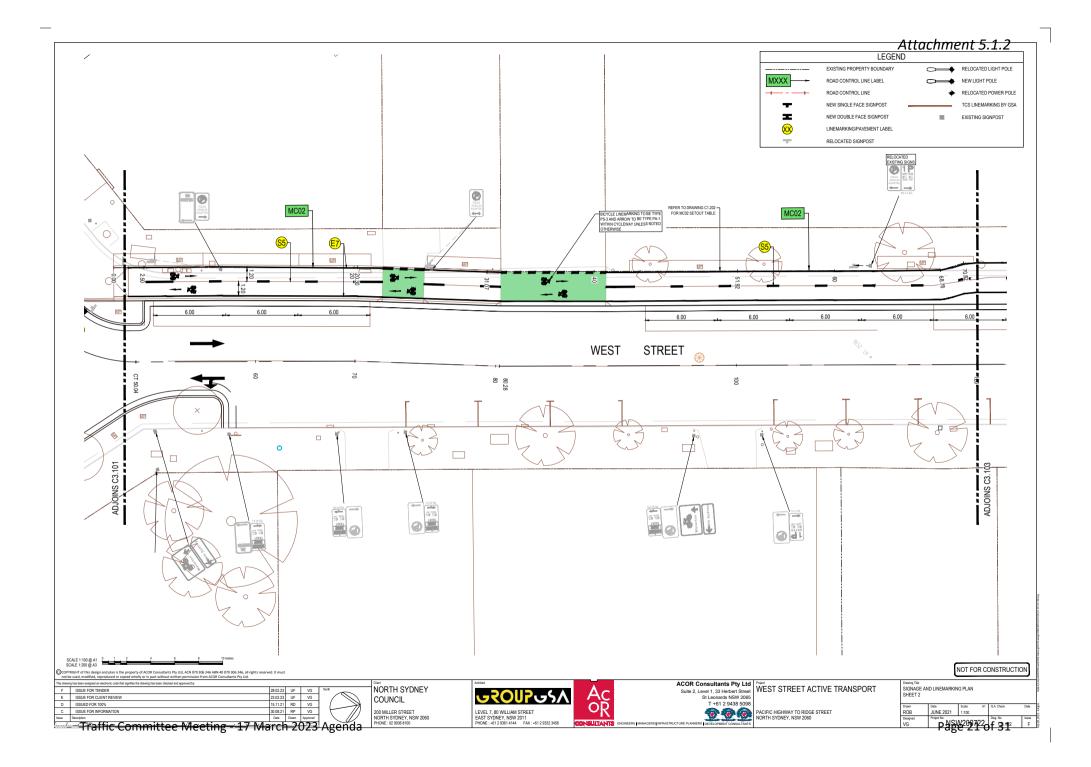


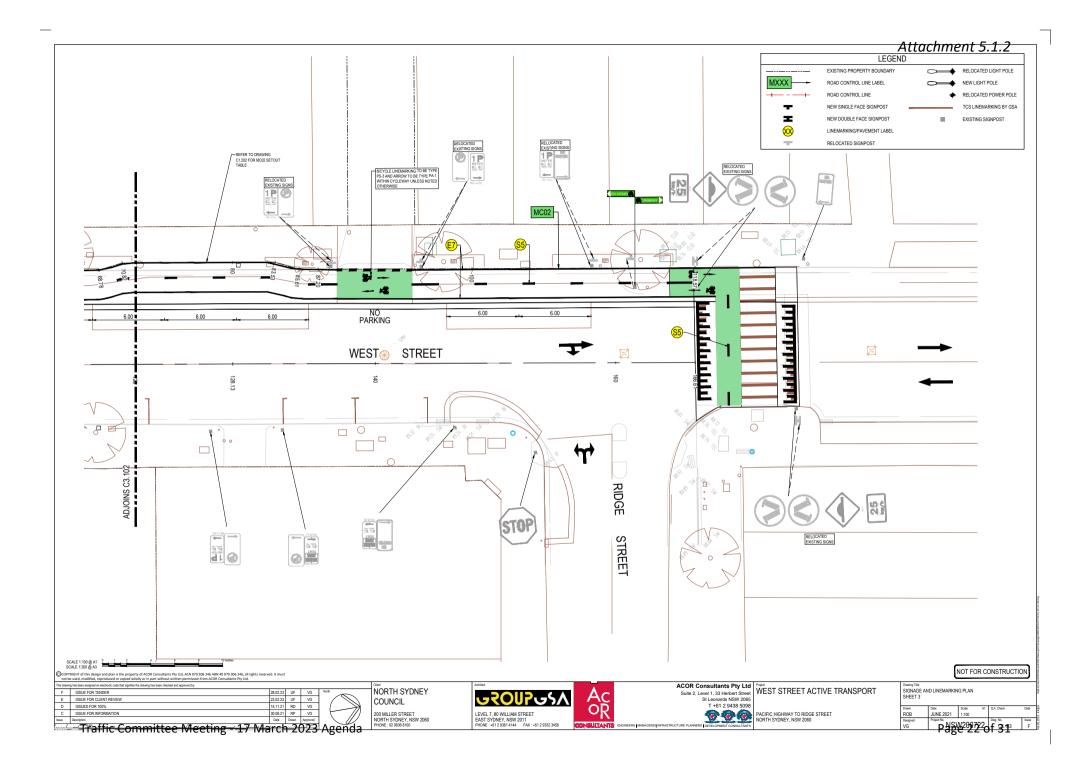


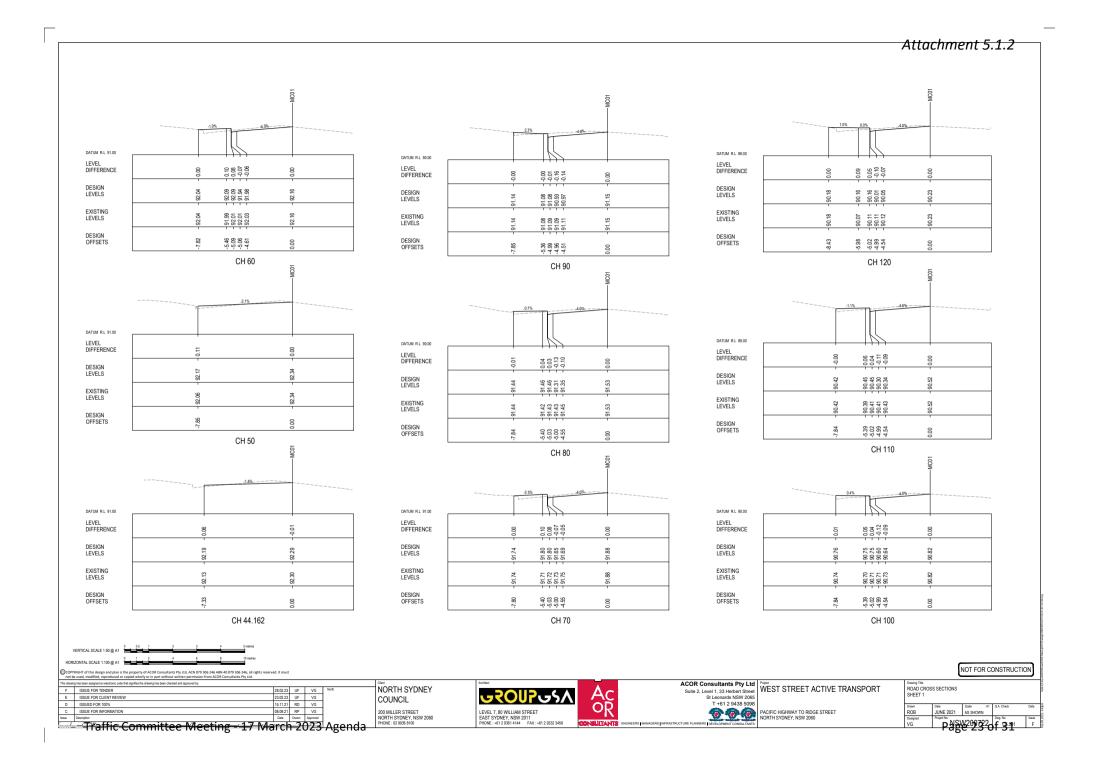


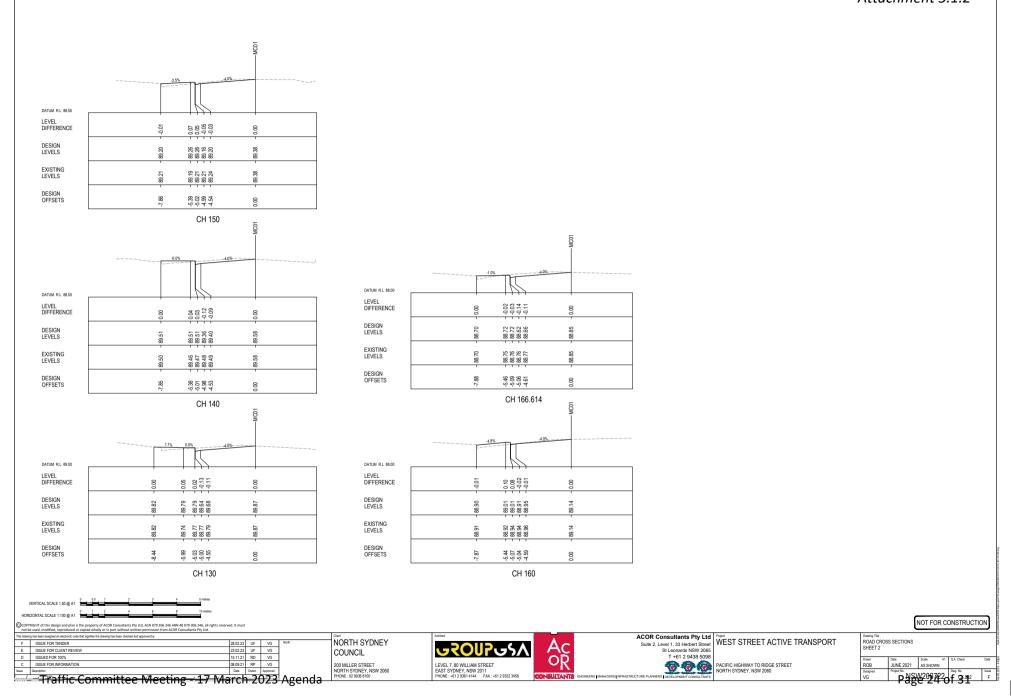


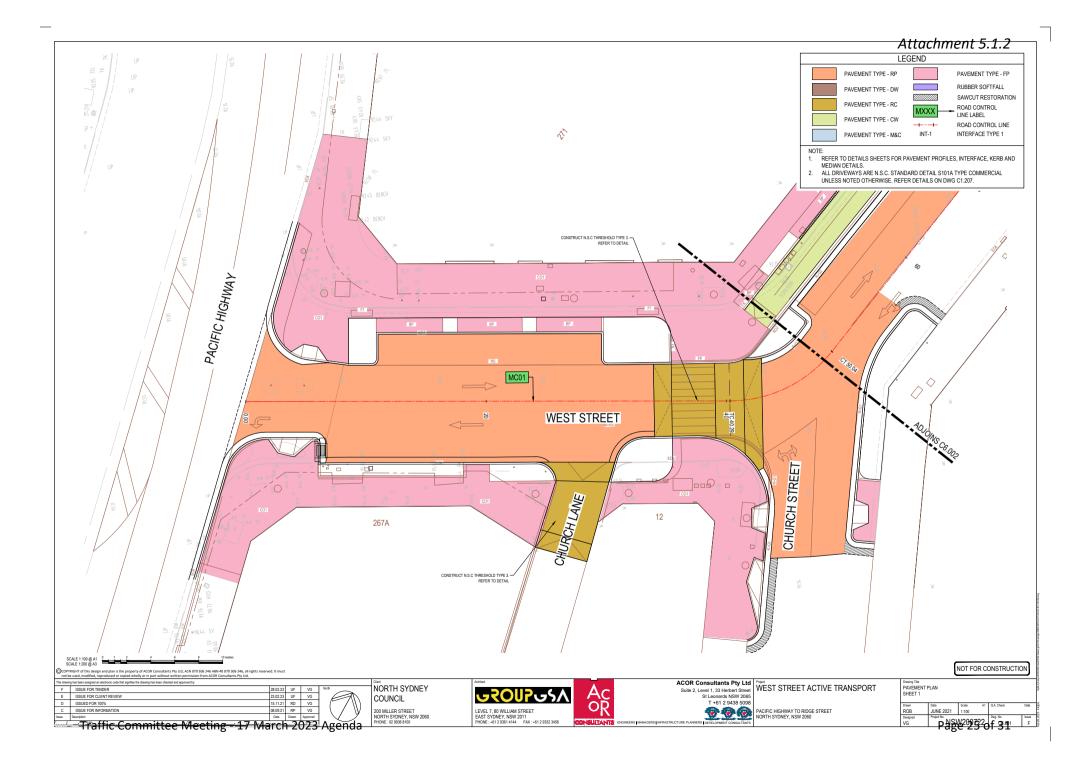


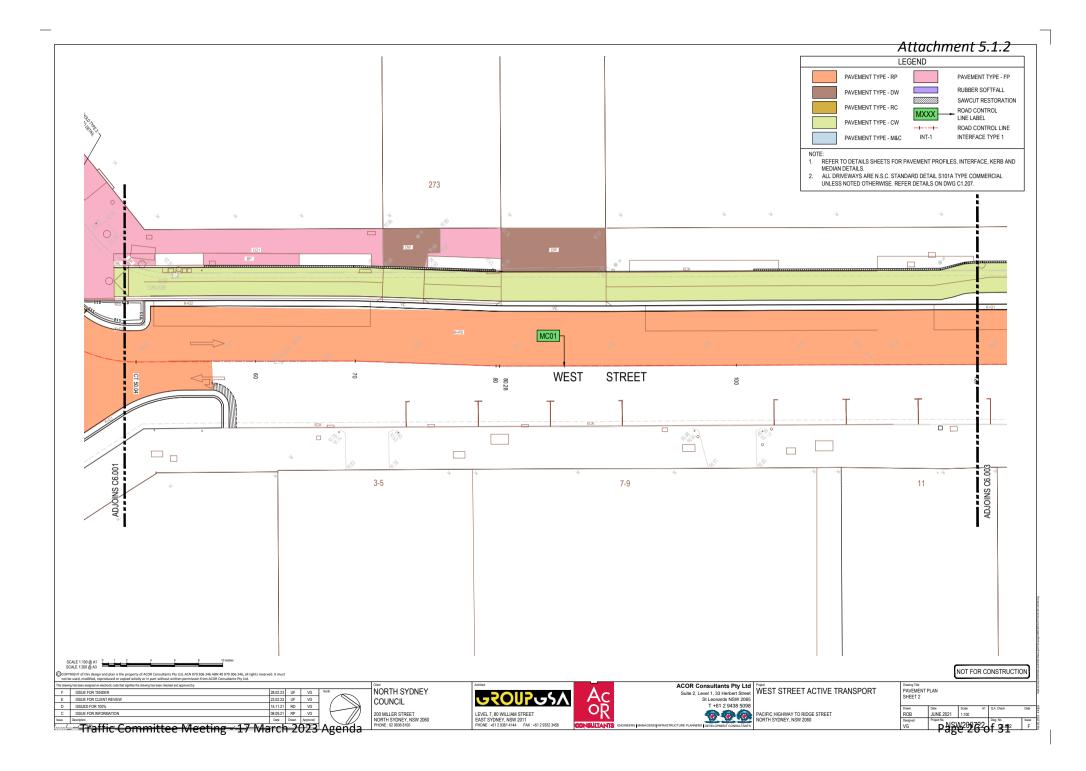


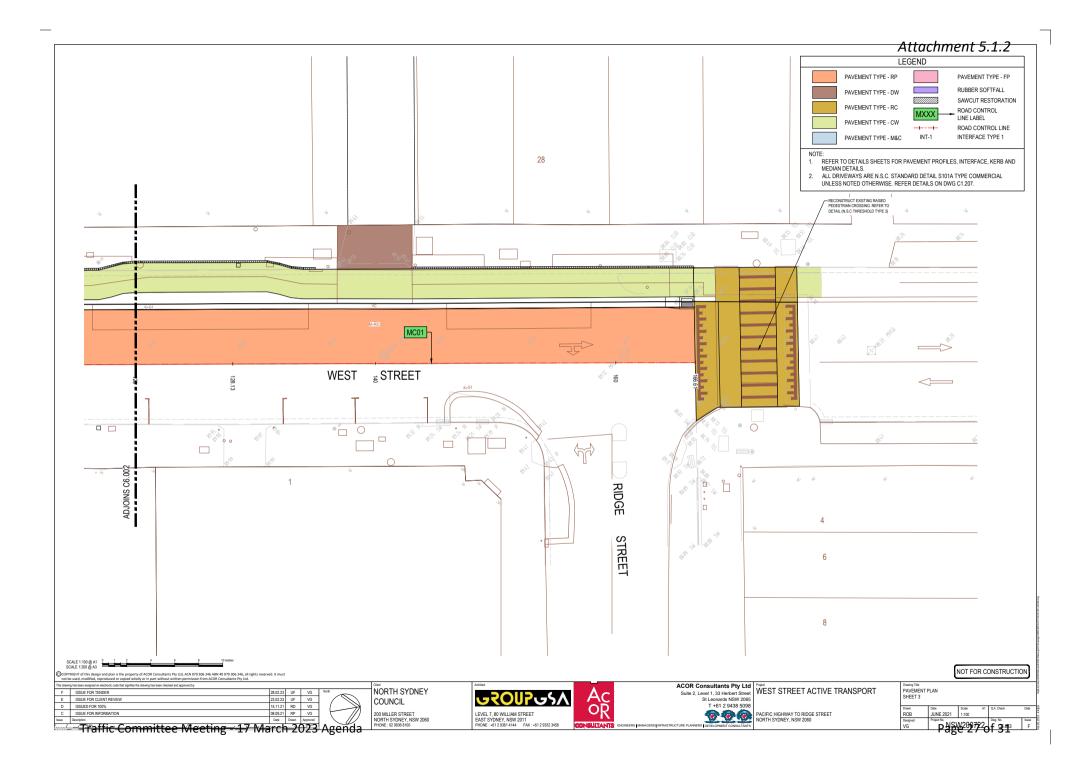


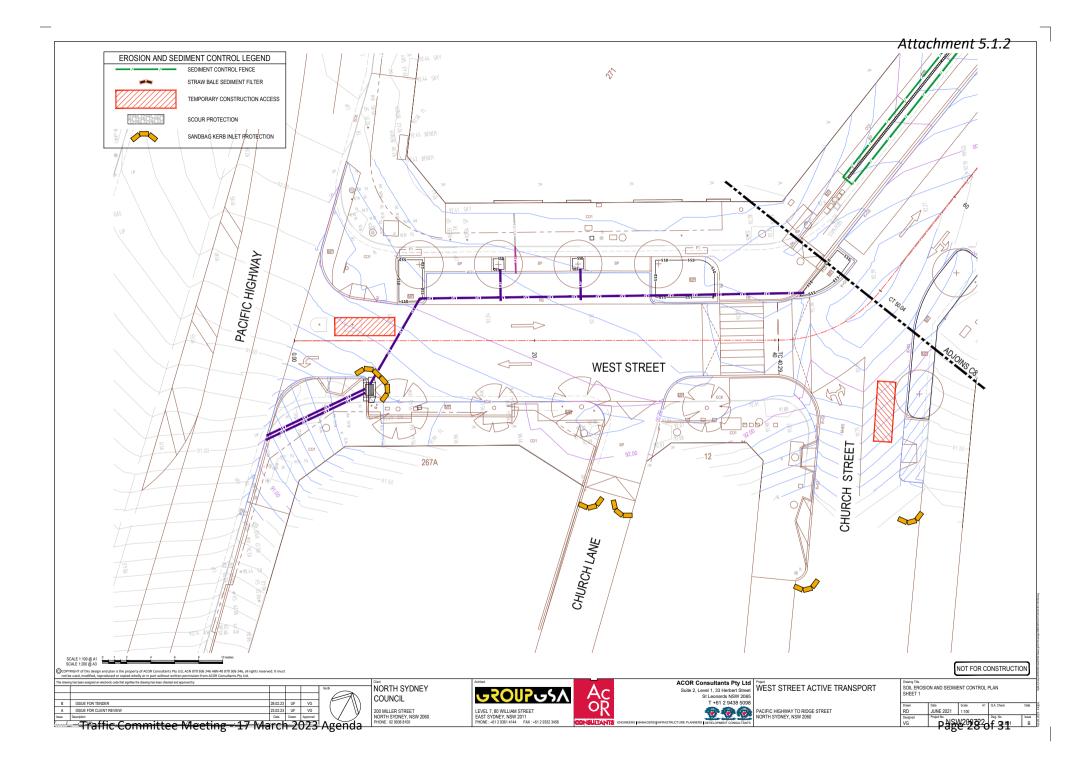


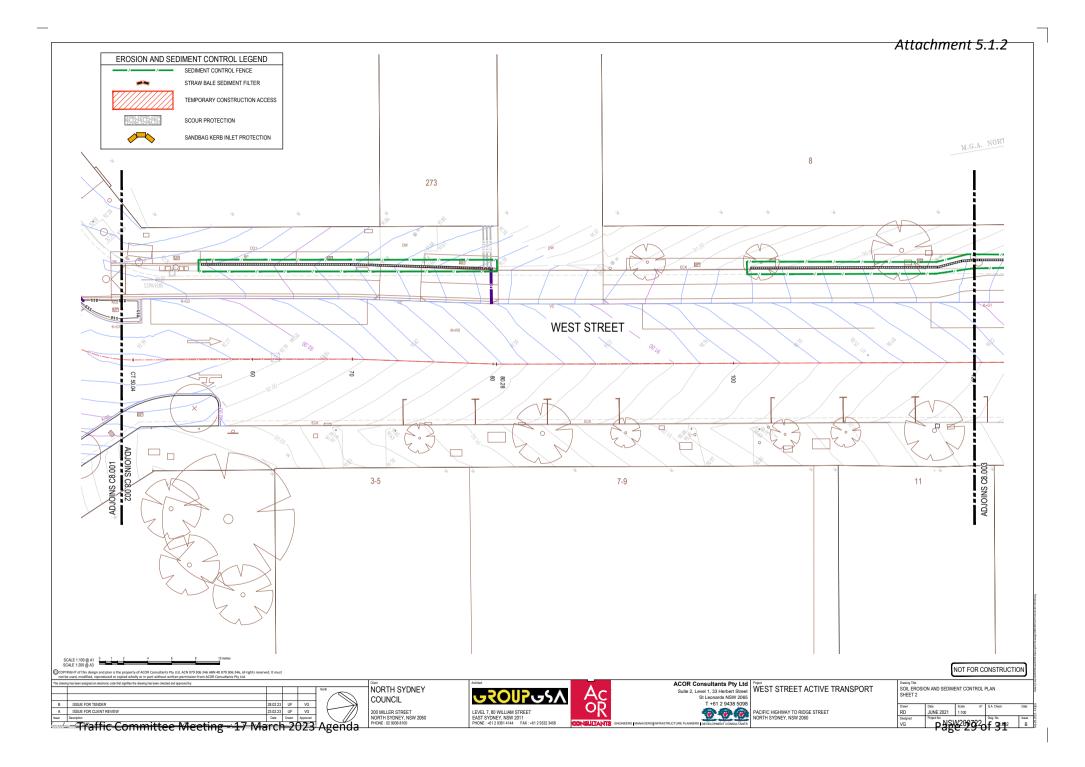


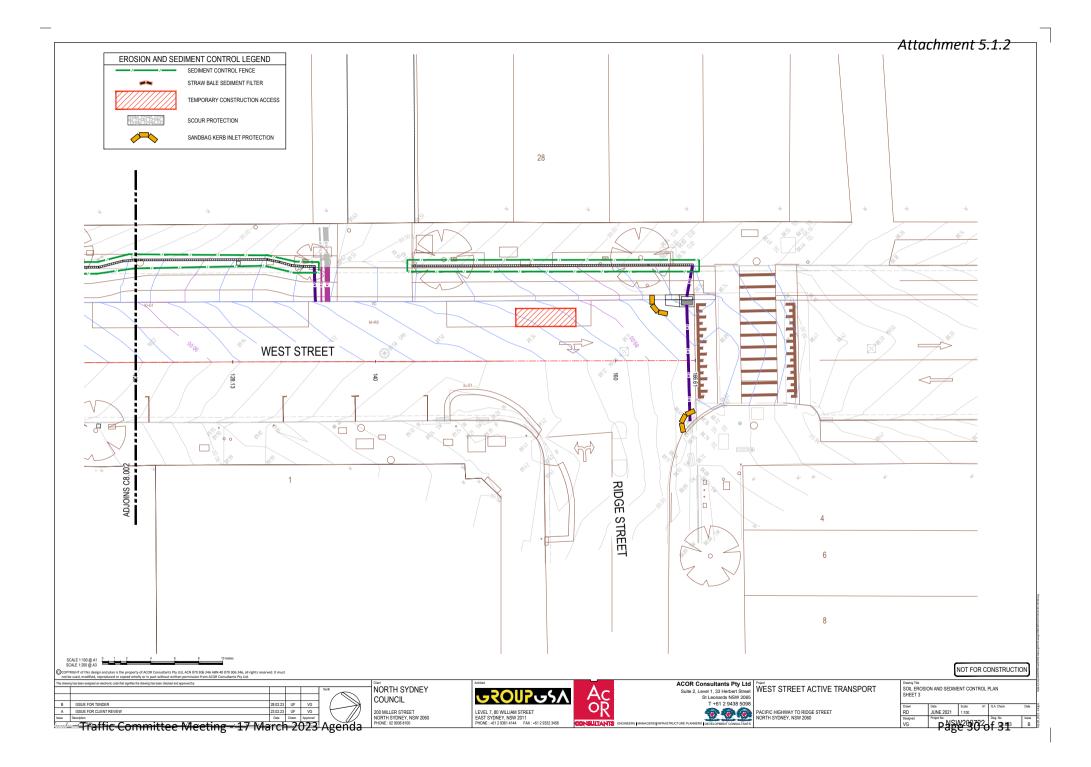












#### EROSION AND SEDIMENT CONTROL NOTES

#### GENERAL INSTRUCTIONS

- THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- 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 (BILLE BOOK);
- ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

#### LAND DISTURBANCE INSTRUCTIONS

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVIDE PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE LIENTIFIED WITH BARRIER FENCING (DYSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR.
- 2 ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER NULL DETERMINE AND MARKET THE LOCATION OF THESE ZONES ON-SITE ALL SITE WORKERS WILL CEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE DIDENTIFIED WITH BARRIER FENDING (UPSLOPE) AND SEDIMENT FENDING (DOWNSLOPE) OR
- 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:
- INSTALL ALL RADDIED AND SEDIMENT FENCING WHERE SHOWN ON THE READ
- CONSTRUCT THE STABILISED SITE ACCESS CONSTRUCT DIVERSION DRAINS AS REQUIRED
- INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS
- INSTALL GEOFFINIA STONYLL INJUSTS FUND ANY MUDICUPN REPORT INJUSTS.

  CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
- UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF ANDIOR PAYED AREA STORMANTER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
  GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
- WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.

  VARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS REEN 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 SCARFIED SURFACE TO ENCOURAGE WATER INFLITATION AND ASSIST WITH KEYING TOPSOIL LATER.
- CONTRACTOR TO MANAGE THE ALIGNMENT OF CATCH DRAINS ON SITE AND TO ENSURI THAT CATCH DRAINS INTERCEPT THE SITE SURFACE RUNOFF AND DIRECT THE RUNOFF TOWARDS THE SEDIMENTATION BASINS.

#### SITE INSPECTION AND MAINTENANCE INSTRUCTIONS

- 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 NECESSAR
- REPAIRS.
  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.
- REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT
- STRUCTURE HAS BEEN EXCEEDED.
- ENSURE REHARILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION.
- ENSINE REHMBULLIFIED MAINS HAVE EMECTIVETY REQUIRED THE ENGINE HAZARDA AND TO MAINTER UPREADURG OR REPRIEW AS NECESSA'D SONGS AS MIGHT ECOME RECESSA'D FOR SIZE OF THE STATE O
- FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED
- THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:

- THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
  THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
  THE CONDITION OF YEEFSTRON WAD ANY TREED TO RRIGHTE.
  THE NEED FOR DUST PREVENTION STRATEGIES.
  ANY REMEDIAL WORKS TO BE UNDERTAINEN. 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 CONCILISION OF THE WORKS

#### EROSION AND SEDIMENT CONTROL NOTES

#### SEDIMENT CONTROL INSTRUCTIONS

- 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
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- 5 WATER WILL BE DREVENTED FROM DIRECTLY ENTERING THE DERMANENT 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.
- ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXT

#### SOIL EROSION CONTROL INSTRUCTIONS

- EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:

- 2(M;:1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES 2.5(H;:1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES. 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
- ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
- 3 WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER WATERWAYS AND AREAS SUBJECT TO CONCENTRATED FLOWS A FIFER (70% GROUND CONSTRUCTION ARE TO HAVE A MANIMAL RIGHLODOVER OF ACTOR OF 10 (70% GROUND COVER) WHICH IN MOVEMENS DAYS FROM COMPLETION OF FORMATION FLOW STROMATOR AND THE ACT OF THE MANIMAL OF THE ASSOCIATION OF THE ACT OF THE MANIMAL OF THE ASSOCIATION OF THE ACT OF THE ACT
- 5 ALL LANDS INCLUDING WATERWAYS AND STOCKER BY DURING CONSTRUCTION ARE TO HAVE M GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
- FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KGHA AND OATS 20 KGHA.
- RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS

#### WASTE CONTROL INSTRUCTIONS

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

# **EROSION AND SEDIMENT CONTROL NOTES**

### IMPORTANT NOTES:

- 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
- 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
- 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
- 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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B ISSUE FOR TENDER 28.02.23 UF VG A ISSUE FOR CLIENT REVIE 23.02.23 UF VG

NORTH SYDNEY COUNCIL

200 MILLER STREET NORTH SYDNEY, NSW 2060 PHONE: 02 9936 8100



LEVEL 7 80 WILLIAM STREET





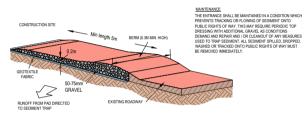
WEST STREET ACTIVE TRANSPORT

PACIFIC HIGHWAY TO RIDGE STREET ORTH SYDNEY, NSW 2060

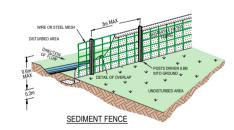
NOT FOR CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL

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STRAW BALE SEDIMENT FILTER (ALTERNATE)



## TEMPORARY CONSTRUCTION EXIT



Traffic Committee Meeting - 17 March 2023 Agenda