



# VERNON CIRCLE NORTH - EARLY WORKS WORKS APPROVAL

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DRAWING INDEX			
DRAWING NUMBER	DESCRIPTION		REV
<b>LIGHTING</b>			
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A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21
AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
CO-ORDINATE SYSTEM: STROMLO		HEIGHT DATUM: AHD		SCALE: AS SHOWN

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DRAWN: S NAIDU  
 DESIGNED: \_\_\_\_\_  
 DRG CHECK: J SINGH  
 DESIGN CHECK: \_\_\_\_\_  
 APPROVED: J PETERS

**NOT FOR CONSTRUCTION**

**VCN WORKS APPROVAL**  
 GENERAL  
 VERNON CIRCLE NORTH EARLY WORKS  
 COVER SHEET & DRAWING INDEX  
 SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL | SHEET: 01 OF 01 | A1  
 STATUS: WORKS APPROVAL ISSUE  
 DRG No: S211-ACM-WOP-MAN-NA-1001 | EDMS No: \_\_\_\_\_

SCALE @ A1

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 Plotted by: SINGU

**GENERAL NOTES:**

- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE. ALL LEVELS ARE IN METRES TO AHD. CHAINAGES, GEOMETRY AND COORDINATES ARE EXPRESSED IN METRES.
- THIS PACKAGE CONTAINS DRAWINGS FOR PACKAGE 10 - ROADS ALIGNMENT.
- OTHER PACKAGES PROPOSED DESIGNS ARE SHOWN INDICATIVELY FOR INFORMATION.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
- THE CO-ORDINATE SYSTEM USED IN ALL DRAWINGS IS THE CANBERRA MAP GRID (STROMLO). 200,000 EAST, 600,000 NORTH
- THE LOCATION OF EXISTING UTILITIES DEPICTED ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONSTRUCTION TEAM IS REQUIRED TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK.
- ALL DISTURBED SURFACES SHALL BE REINSTATED TO AT LEAST THEIR PRE-CONSTRUCTION CONDITION, UNLESS NOTED OTHERWISE.
- SHOULD ANY ABORIGINAL ARTIFACTS BE DISCOVERED IN THE WORK SITE THE CONTRACTOR SHALL REFER TO THE CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP) FOR INSTRUCTION ON THEIR TREATMENT.

**HORIZONTAL ALIGNMENT / SETTING OUT**

- COORDINATE SYSTEM: MT. STROMLO TRIG (200,000 EAST; 600,000 NORTH).
- CHAINAGES ORIGINATE FROM THE START OF EACH TRACK CONTROL LINE.

**VERTICAL ALIGNMENT**

- HEIGHT DATUM: AUSTRALIAN HEIGHT DATUM (A.H.D.).
- ALL VERTICAL CURVES DESIGNED AS CUBIC PARABOLAS.

**KERBS:**

- FOR STANDARD KERB SHAPES REFER TCCS STANDARD DRAWING No. DS3-01.

**ENVIRONMENTAL MANAGEMENT GENERAL NOTES**

- THE CONTRACTOR SHALL LIMIT MOVEMENT OF VEHICLES AND PLANT TO APPROVED PARKING AREAS AND ACCESS ROUTES OR TO AREAS WHERE EXCAVATION OR FILL IS REQUIRED BY THE DRAWINGS. PROTECT ALL GRASSLANDS, TREES AND SHRUBS OUTSIDE THE AREA OF THE WORKS FROM DAMAGE.
- PLACE STRAW BALES OR SANDBAGS AROUND CULVERT INLETS AND OUTLETS AND WITHIN TABLE DRAIN TERMINATION AND OTHER KEY AREAS AS REQUIRED.
- THESE DRAWINGS ONLY TYPIFY THE EROSION CONTROL PRINCIPLES REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND SUBMIT DETAILS OF PROPOSED EROSION CONTROL MEASURES IN ACCORDANCE WITH ENVIRONMENT ACT'S "EROSION AND SEDIMENT CONTROL DURING LAND DEVELOPMENT" GUIDELINES AND ANY OTHER RELEVANT ACTS TO SUIT CONSTRUCTION STAGING.
- STORMWATER INLETS SHALL BE PREVENTED FROM ACCEPTING SEDIMENT THROUGH THE APPLICATION OF APPROPRIATE TEMPORARY INLET SEDIMENT TRAPS.
- INSTALL FILTER ROLLS AROUND ALL INLET SUMPS AND MANHOLES.
- ALL AREAS OF SITE BEYOND EARTHWORK AND DRAINAGE LIMITS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REINSTATED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- DISTURBED AREAS SHALL BE TOP SOILED AND GRASSED AS SOON AS PRACTICAL AFTER THE COMPLETION OF THE EARTHWORKS.
- TO ENSURE SUBSTANTIAL AND EFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES ARE MAINTAINED, PROJECT CONSTRUCTION SHALL PROCEED AS PER CONTRACTOR'S STAGING PLAN.
- FOR WORKS NEAR TREES FOLLOW THE REQUIREMENTS OF THE TREE MANAGEMENT PLANS.

**NOISE POLLUTION**

- ANY NOISE ACTIVITIES, INCLUDING MATERIAL DELIVERY AND WORK SITE PREPARATION, IS ONLY PERMITTED BETWEEN THE HOURS SPECIFIED IN THE CONTRACT. AT ALL OTHER TIMES NOISE EMISSION MUST NOT EXCEED THE ZONE NOISE STANDARD.

**GOLDEN SUN MOTH PLAN**

- ENSURE COMPLIANCE WITH GOLDEN SUN MOTH PLAN UNDER THE EPBC ACT APPROVAL.
- ALL RESTORATIONS TO BE IN ACCORDANCE WITH THE GOLDEN SUN MOTH PLAN UNDER THE EPBC ACT APPROVAL.

**SEDIMENT CONTROL NOTES**

- SEDIMENT AND EROSION CONTROL DEVICES TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOPSOIL.
- STOCKPILES TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCKPILES TO MINIMISE EROSION.
- STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE REPLACED WHEN SEDIMENT BUILDS UP.
- PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS.
- KERBSIDE FILTER ROLLS AND TRAPPED SEDIMENT TO BE REMOVED, CLEANED AND REINSTATED ON A WEEKLY BASIS AT A MINIMUM. CLEANING ALSO TO BE UNDERTAKEN IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
- CONTRACTOR IS TO ESTABLISH A MAINTENANCE PROGRAMME FOR SEDIMENT AND EROSION CONTROL DEVICES TO ENSURE INSPECTION AFTER SIGNIFICANT RAINFALL AND THAT ANY REPAIRS ARE CARRIED OUT AS NECESSARY.
- ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROAD WORKS.
- LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
- REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT THE SITE.
- NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF SITE WITHOUT TCCS APPROVAL.
- ALL SERVICE TRENCHES TO BE BACKFILLED WITHIN 24 HOURS OF INSPECTION.
- EXCESS SOIL TO BE DISPOSED AT AN APPROVED LOCATION.
- ALL BUILDING MATERIAL AND STOCKPILES SHALL BE LOCATED WITHIN A WASTE ENCLOSURE OR WASTE CONTAINMENT AREA ON THE SITE.

**MAINTENANCE SCHEDULE**

- MONTHLY: TURN OVER STABILISED CONSTRUCTION ENTRY MATERIAL AND TOP UP AS REQUIRED.
- WEEKLY: CHECK, CLEAN AND REINSTATE SILT CONTROL DEVICES.
- DAILY: SWEEP AND REMOVE ANY DIRT TRACKED ONTO PUBLIC ROADS BY VEHICLES. ALL NECESSARY STEPS SHALL BE TAKEN TO MINIMISE DUST POLLUTION ON LAND DEVELOPMENT AND CONSTRUCTION SITE.

**DUST MANAGEMENT**

- A WATER CART OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE IN DRY AND WINDY CONDITIONS TO MAINTAIN DUST SUPPRESSION.
- WATER SHALL BE APPLIED TO SUPPRESS DUST FORM OPEN EARTHWORKS AND UNPROTECTED STOCKPILES.
- STOCKPILES SHALL BE EITHER COVERED OR SEEDED TO PREVENT DUST.
- AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO MINIMISE EROSION.
- THE CONTRACTOR SHALL CONTACT ICON WATER TO OBTAIN AN EXEMPTION TO USE WATER ON SITE.
- IN THE EVENT OF HIGH WINDS, WHERE DUST CANNOT BE CONTROLLED, WORK SHALL CEASE IMMEDIATELY.

**CONTROL OF WASTE**

- ALL BUILDING MATERIAL AND WASTE STOCKPILES MUST BE LOCATED ON SITE UNLESS SEPARATE APPROVAL HAS BEEN GRANTED FROM ACT PARKS AND CONSERVATION SERVICE (PCS) TO STORE MATERIAL OFF SITE ON THE VERGE OR UNLEASED TERRITORY LAND.
- THE WASTE ENCLOSURE IS TO BE USED AND IS TO BE CAPABLE OF HOLDING ALL WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF IN AN APPROPRIATE MANNER.

**IMPORT / EXPORT OF SOIL**

- IF SOIL IS TO BE REMOVED OR IMPORTED ON SITE, THE DETAILS OF THE ORIGIN OF THE SOIL IMPORTED OR THE LOCATION WHERE THE SOIL IS TO BE EXPORTED ARE TO BE PROVIDED TO EPA A MINIMUM OF TWO WEEKS IN ADVANCE OF THE WORK.

**EXISTING**

- CADASTRAL BOUNDARY
- KERB / EDGE OF BITUMEN
- EXISTING TREE TO BE RETAINED
- PROPOSED TREES

**PROPOSED WORKS**

- EPBCI BOUNDARY
- CONTROL LINE
- MOUNTABLE KERB
- KERB AND GUTTER
- KERB RAMP
- TRANSITION IN KERB
- LAMP/STREETLIGHT

**INFRASTRUCTURE & CABLES**

- PEDESTAL
- COMBINED USE
- MAST ARM
- NEW TCS POLE
- JUNCTION BOX (JBR)
- JC-1 PIT BOX
- 2x Ø140mm CONDUIT
- 1x Ø100mm
- 1x Ø140mm
- 1x Ø50mm
- 1x Ø50mm
- 2x Ø140mm
- 1x Ø125mm (ACTEW CONDUIT)

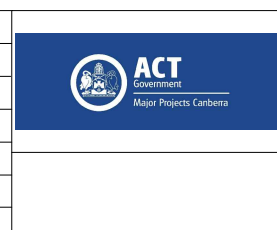
**UTILITIES**

- EXISTING**
- STORMWATER PIPE, MANHOLE & SUMP
  - STORMWATER PIPE TO BE REMOVED
  - OVERHEAD POWER LINE
  - UNDERGROUND POWER LINE
  - UNDERGROUND LOW VOLTAGE POWER LINE
  - TELECOMMUNICATIONS ICON
  - TELECOMMUNICATIONS NBN
  - TELECOMMUNICATIONS NEXTGEN
  - TELECOMMUNICATIONS OPTUS
  - SHARED SERVICES TRENCH
  - COMMUNICATIONS TELEPHONE CABLING
  - TELECOMMUNICATIONS TACT
  - TELECOMMUNICATIONS TELSTRA
  - HIGH PRESSURE GAS
  - LOW PRESSURE GAS
  - SEWER
  - WATER
  - UTILITY SERVICE PITS & STREETLIGHT
  - STREETLIGHT
- PROPOSED**
- PROPOSED WATER MAIN
  - SHARED TRENCH
  - TRANSACT LINE
  - TELSTRA LINE
  - DDTS LINE
  - ICON LINE
  - OPTUS LINE
  - NBN LINE
  - TELECOMMUNICATION PITS
  - GAS LINE
  - SEWER LINE
  - STREET LIGHT

- NOTE:**
- FOR DRAINAGE REFER TO DRAWING S211-ACM-WOP-CIV-SD-1101.
  - FOR PAVEMENT REFER TO DRAWING S211-ACM-WOP-CIV-PA-1101.

**NOT FOR CONSTRUCTION**

A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21
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**AECOM**  
AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

DRAWN S NAIDU  
DESIGNED A JIAO  
DRG CHECK J SINGH  
DESIGN CHECK C VAVOULAS  
APPROVED J PETERS

**VCN WORKS APPROVAL**

ALIGNMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
GENERAL NOTES & LEGEND  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL | SHEET: 01 OF 01 | A1

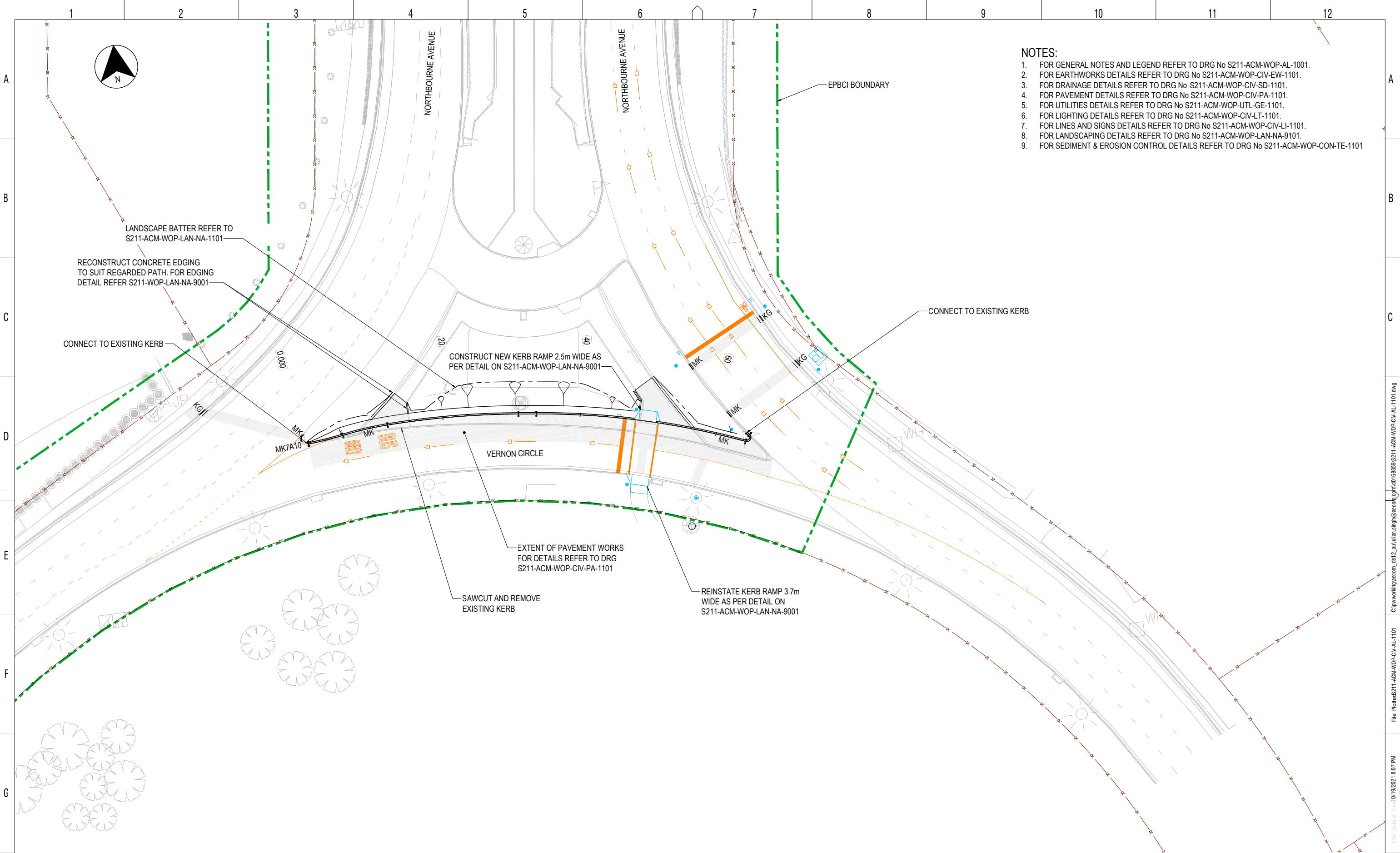
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DRG No: S211-ACM-WOP-CIV-AL-1001 | EDMS No. | A

SCALE @ A1

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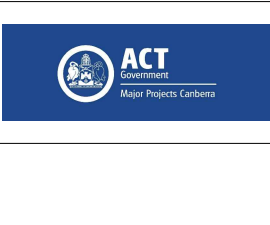


- NOTES:**
1. FOR GENERAL NOTES AND LEGEND REFER TO DRG No S211-ACM-WOP-AL-1001.
  2. FOR EARTHWORKS DETAILS REFER TO DRG No S211-ACM-WOP-CIV-EW-1101.
  3. FOR DRAINAGE DETAILS REFER TO DRG No S211-ACM-WOP-CIV-SD-1101.
  4. FOR PAVEMENT DETAILS REFER TO DRG No S211-ACM-WOP-CIV-PA-1101.
  5. FOR UTILITIES DETAILS REFER TO DRG No S211-ACM-WOP-UTL-GE-1101.
  6. FOR LIGHTING DETAILS REFER TO DRG No S211-ACM-WOP-CIV-LT-1101.
  7. FOR LINES AND SIGNS DETAILS REFER TO DRG No S211-ACM-WOP-CIV-LI-1101.
  8. FOR LANDSCAPING DETAILS REFER TO DRG No S211-ACM-WOP-LAN-NA-9101.
  9. FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRG No S211-ACM-WOP-CON-TE-1101

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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21

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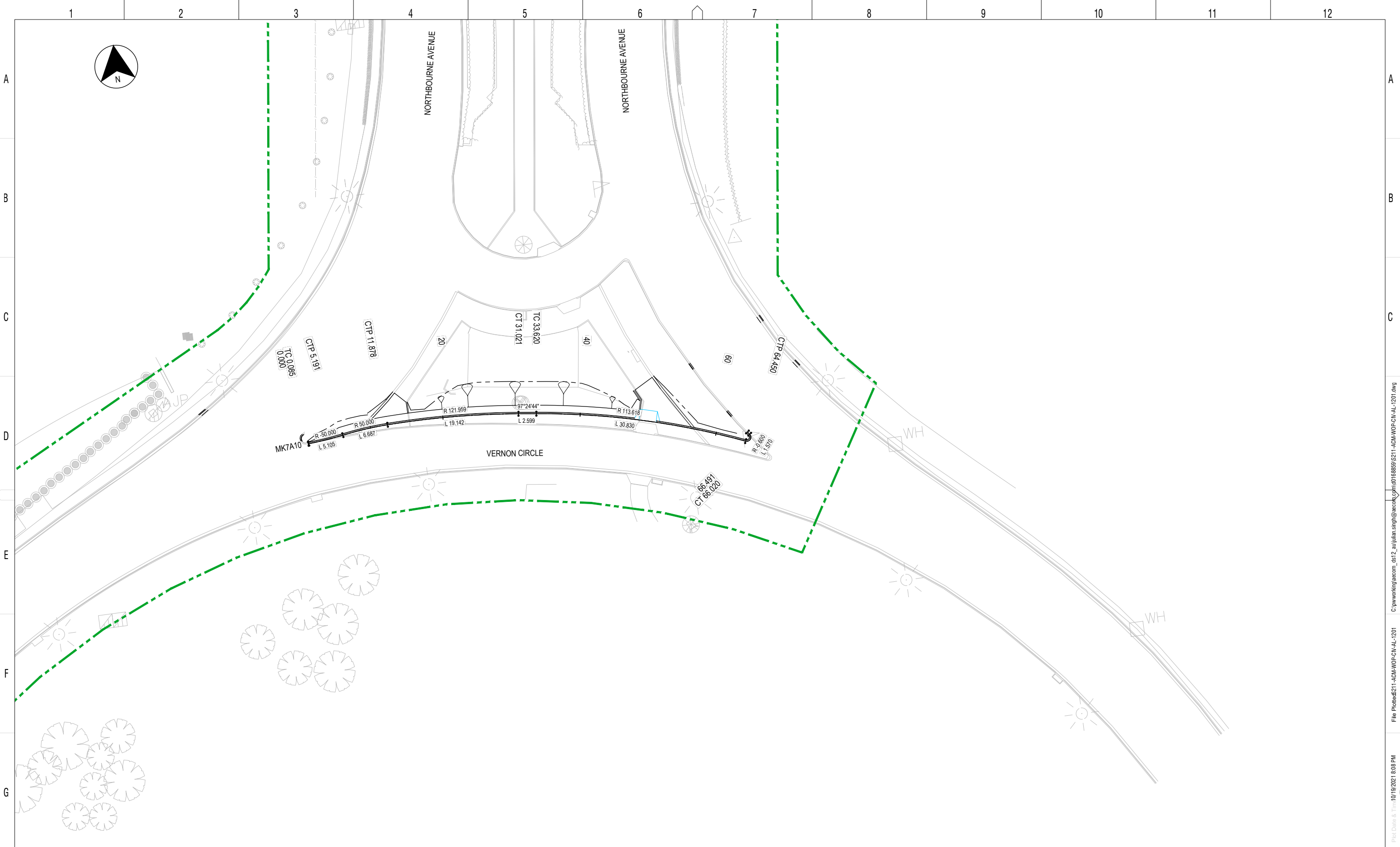
**AECOM**  
AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

DRAWN: S NAIDU  
DESIGNED: A JIAO  
DRG CHECK: J SINGH  
DESIGN CHECK: C VAVOULAS  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
ALIGNMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
GENERAL ARRANGEMENT  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL    SHEET: 01 OF 01    A1  
STATUS: WORKS APPROVAL ISSUE  
DRG No: S211-ACM-WOP-CIV-AL-1101    EDMs No.    A

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 SCALE @ A1

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DRAWN S NAIDU  
 DESIGNED A JIAO  
 DRG CHECK J SINGH  
 DESIGN CHECK C VAVOULAS  
 APPROVED J PETERS

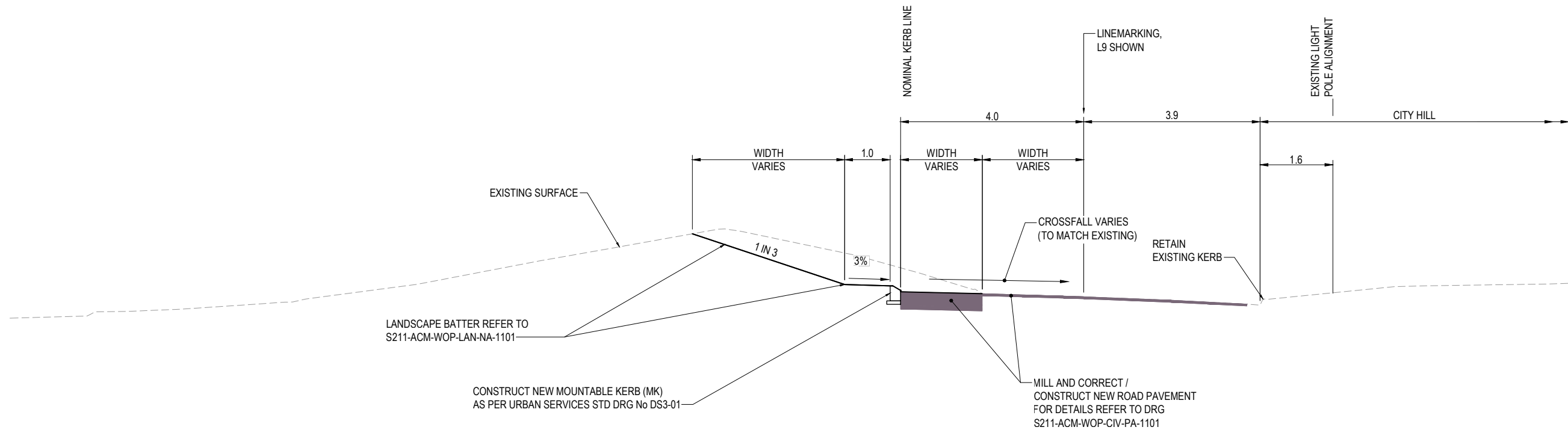
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 ALIGNMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
 ALIGNMENT CONTROL PLAN  
 SHEET 1

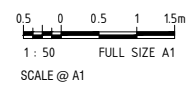
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TYPICAL CROSS SECTION - MK7A10  
SCALE 1:50



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DRAWN A BRISCOE  
 DESIGNED A JIAO  
 DRG CHECK J SINGH  
 DESIGN CHECK C VAVOULAS  
 APPROVED J PETERS

NOT FOR CONSTRUCTION

**VCN WORKS APPROVAL**  
 ALIGNMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
 TYPICAL CROSS SECTION  
 SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
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DRG No: S211-ACM-WOP-CIV-AL-1301	EDMS No.	A

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DATUM (m) 570.000

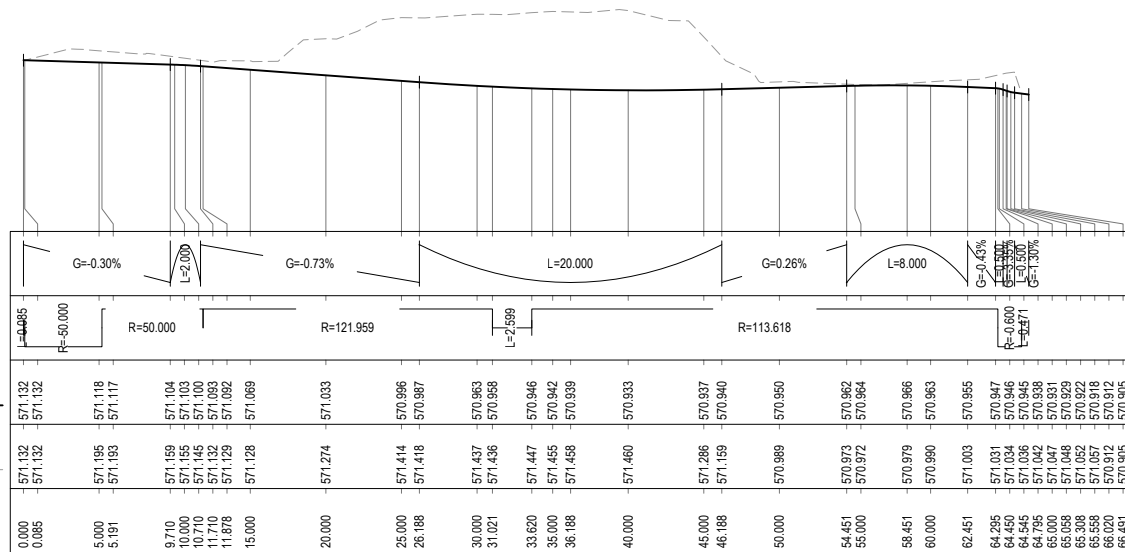
VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DESIGN LEVELS

EXISTING LEVELS

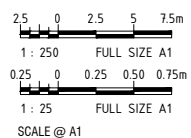
CHAINAGE



LONGITUDINAL SECTION - MK7A10

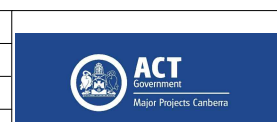
HORIZONTAL SCALE 1:250

VERTICAL SCALE 1:25



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A		ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21
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A.B.N. 20 093 846 925

DRAWN: S NAIDU  
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DRG CHECK: J SINGH  
DESIGN CHECK: C VAVOULAS  
APPROVED: J PETERS

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**VCN WORKS APPROVAL**  
ALIGNMENT  
VERNON CIRCLE NORTH EARLY WORKS  
LONG SECTION - MK7A10  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL SHEET: 01 OF 01 A1  
STATUS: WORKS APPROVAL ISSUE ©  
DRG No: S211-ACM-WOP-CIV-AL-1401 EDMS No. A

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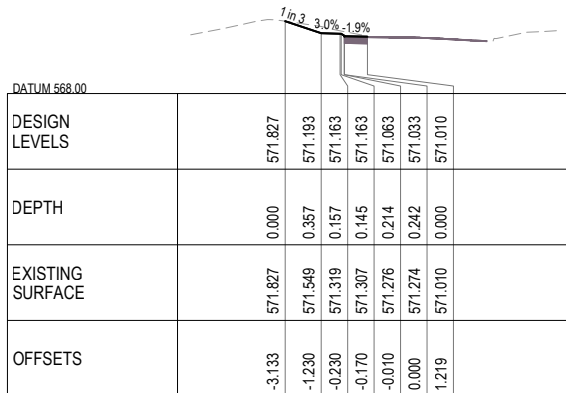
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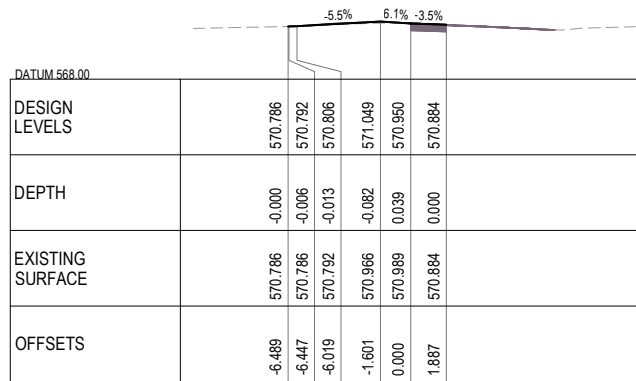
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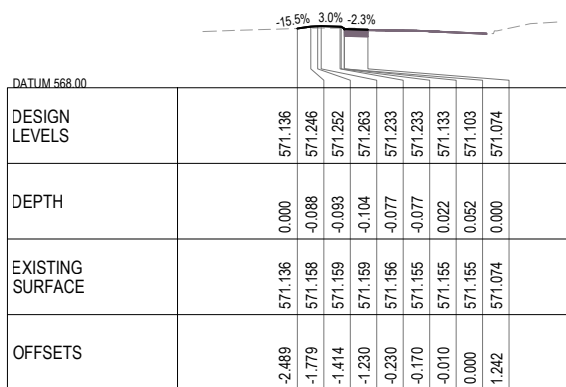
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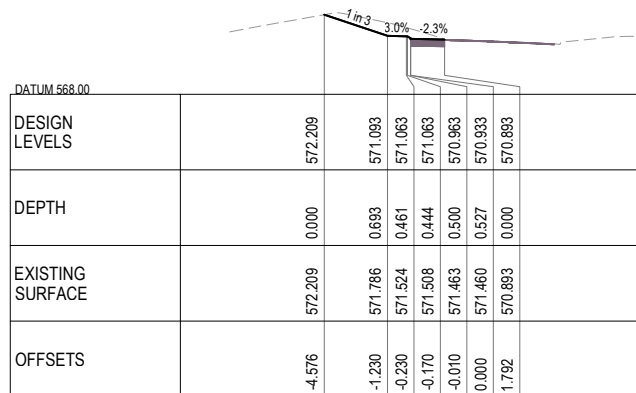
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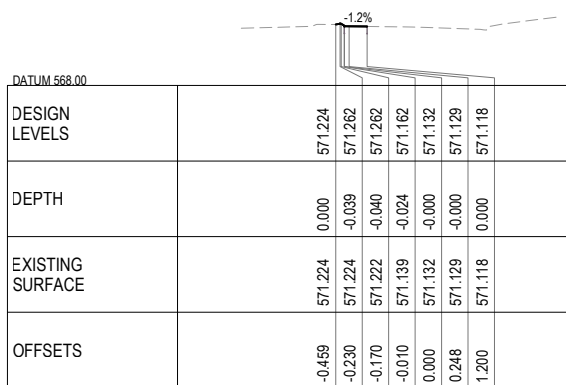
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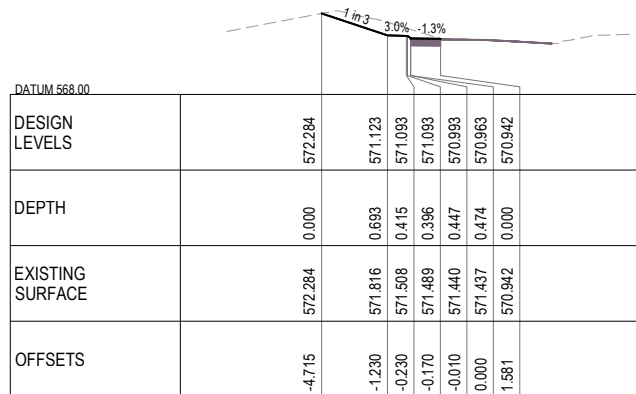
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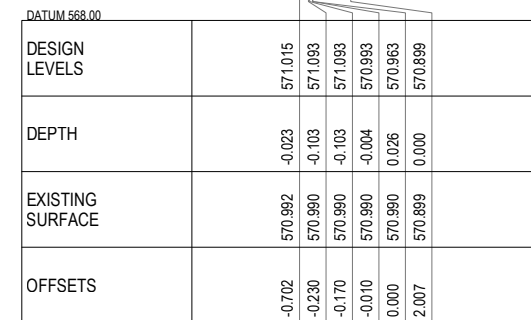
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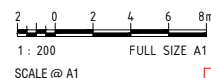
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CHAINAGE 30.000



CHAINAGE 60.000

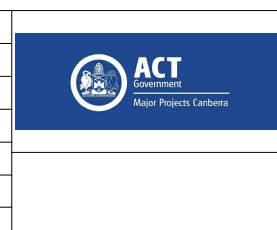


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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO HEIGHT DATUM: AHD SCALE: AS SHOWN



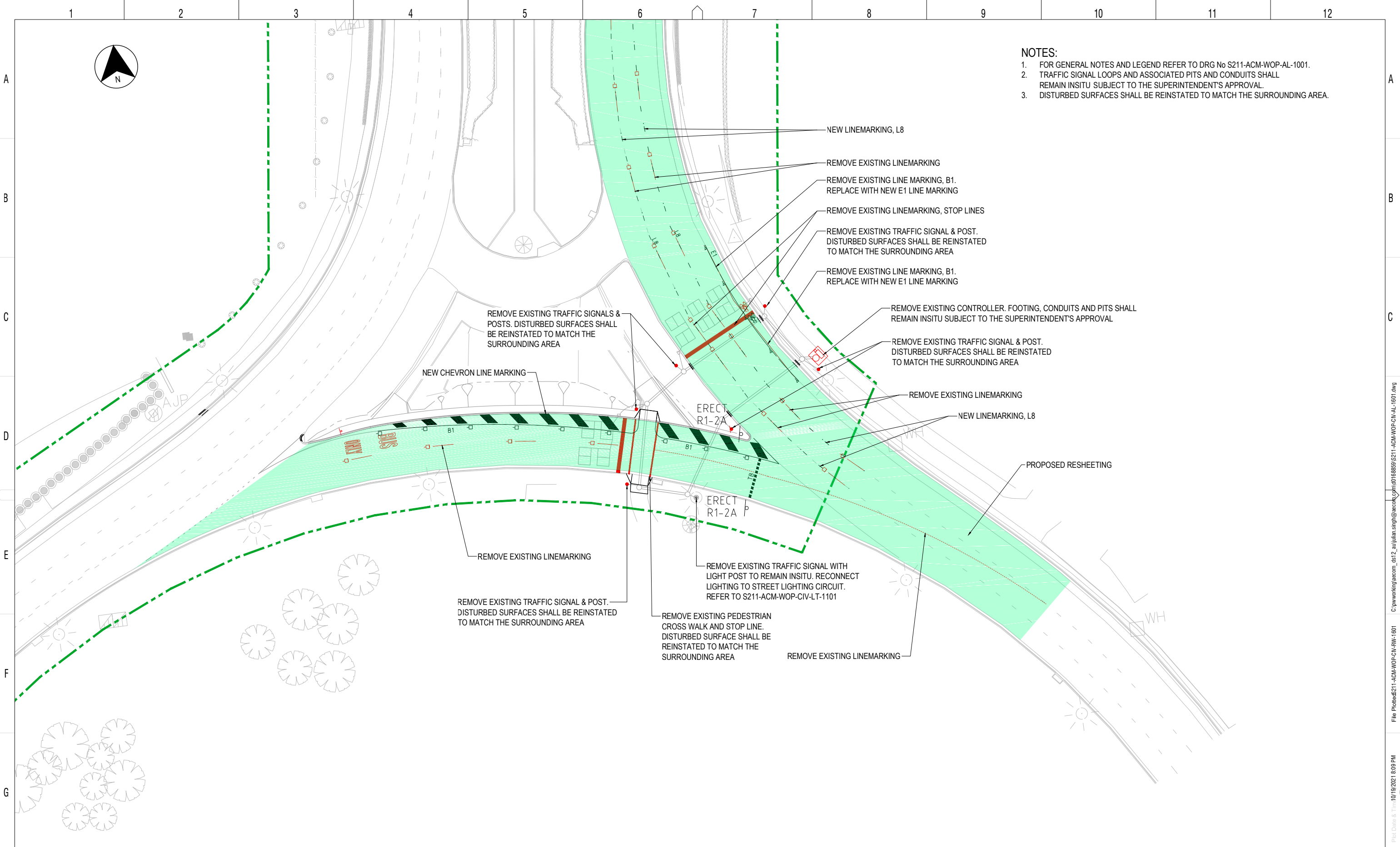
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**AECOM**  
AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

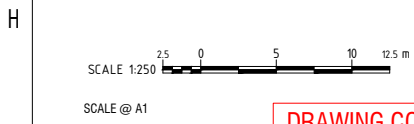
DRAWN: S NAIDU  
DESIGNED: A JIAO  
DRG CHECK: J SINGH  
DESIGN CHECK: C VAVOULAS  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
ALIGNMENT  
VERNON CIRCLE NORTH EARLY WORKS  
CROSS SECTIONS - MK7A10  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL SHEET: 01 OF 01 A1  
STATUS: WORKS APPROVAL ISSUE ©  
DRG No: S211-ACM-WOP-CIV-AL-1501 EDMS No. A



- NOTES:**
- FOR GENERAL NOTES AND LEGEND REFER TO DRG No S211-ACM-WOP-AL-1001.
  - TRAFFIC SIGNAL LOOPS AND ASSOCIATED PITS AND CONDUITS SHALL REMAIN INSITU SUBJECT TO THE SUPERINTENDENT'S APPROVAL.
  - DISTURBED SURFACES SHALL BE REINSTATED TO MATCH THE SURROUNDING AREA.



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**NOT FOR CONSTRUCTION**

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A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21



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DRAWN A BRISCOE  
 DESIGNED A JAO  
 DRG CHECK J SINGH  
 DESIGN CHECK C VAVOULAS  
 APPROVED J PETERS

<b>VCN WORKS APPROVAL</b>			
ALIGNMENT			
<b>VERNON CIRCLE NORTH EARLY WORKS</b>			
<b>REINSTATEMENT PLAN</b>			
SHEET 1			
DESIGN LOT No: S211- WORKS APPROVAL	SHEET: 01 OF 01	A1	
STATUS: WORKS APPROVAL ISSUE			
DRG No: S211-ACM-WOP-CIV-AL-1601	EDMS No:	A	

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 Plot Date & Time: 10/19/2021 8:09 PM  
 Plotted by: SINGU



**EXISTING**

- CADASTRAL BOUNDARY
- KERB / EDGE OF BITUMEN
- EXISTING TREE TO BE RETAINED
- PROPOSED TREES

**EXISTING DRAINAGE**

- PIPE WITH END CAP
- FLOW ARROW
- MANHOLE
- TYPE QS SUMP SINGLE
- TYPE R SUMP SINGLE
- ACT KIS SUMP
- GRATED PIT
- HEADWALL
- PLANTATION SUMP SINGLE

**INFRASTRUCTURE & CABLES**

- PEDESTAL
- COMBINED USE
- MAST ARM
- NEW TCS POLE
- JUNCTION BOX (JBR)
- JC-1 PIT BOX
- 2x Ø140mm CONDUIT
- 1x Ø100mm
- 1x Ø140mm
- 1x Ø50mm
- 1x Ø50mm  
2x Ø140mm
- 1x Ø125mm (ACTEW CONDUIT)

**PROPOSED WORKS**

- EPBCI BOUNDARY
- CONTROL LINE
- MOUNTABLE KERB
- KERB RAMP
- TRANSITION IN KERB
- LAMP/STREETLIGHT

**UTILITIES**

EXISTING

- STORMWATER PIPE, MANHOLE & SUMP
- STORMWATER PIPE TO BE REMOVED
- OVERHEAD POWER LINE
- UNDERGROUND POWER LINE
- UNDERGROUND LOW VOLTAGE POWER LINE
- TELECOMMUNICATIONS ICON
- TELECOMMUNICATIONS NBN
- TELECOMMUNICATIONS NEXTGEN
- TELECOMMUNICATIONS OPTUS
- SHARED SERVICES TRENCH
- COMMUNICATIONS TELEPHONE CABLING
- TELECOMMUNICATIONS TACT
- TELECOMMUNICATIONS TELSTRA
- HIGH PRESSURE GAS
- LOW PRESSURE GAS
- SEWER
- WATER
- UTILITY SERVICE PITS & STREETLIGHT
- STREETLIGHT

PROPOSED

- PROPOSED WATER MAIN
- SHARED TRENCH
- TRANSACT LINE
- TELSTRA LINE
- DDTS LINE
- ICON LINE
- OPTUS LINE
- NBN LINE
- TELECOMMUNICATION PITS
- GAS LINE
- SEWER LINE
- STREET LIGHT

**NOT FOR CONSTRUCTION**

AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	VL 20.10.21	AL 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO    HEIGHT DATUM: AHD    SCALE: AS SHOWN



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**AECOM**  
AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

DRAWN	S NAIDU
DESIGNED	V LIM
DRG CHECK	J SINGH
DESIGN CHECK	L MULYADI
APPROVED	J PETERS

**VCN WORKS APPROVAL**  
UTILITIES  
VERNON CIRCLE NORTH EARLY WORKS  
GENERAL NOTES & LEGEND  
SHEET 1

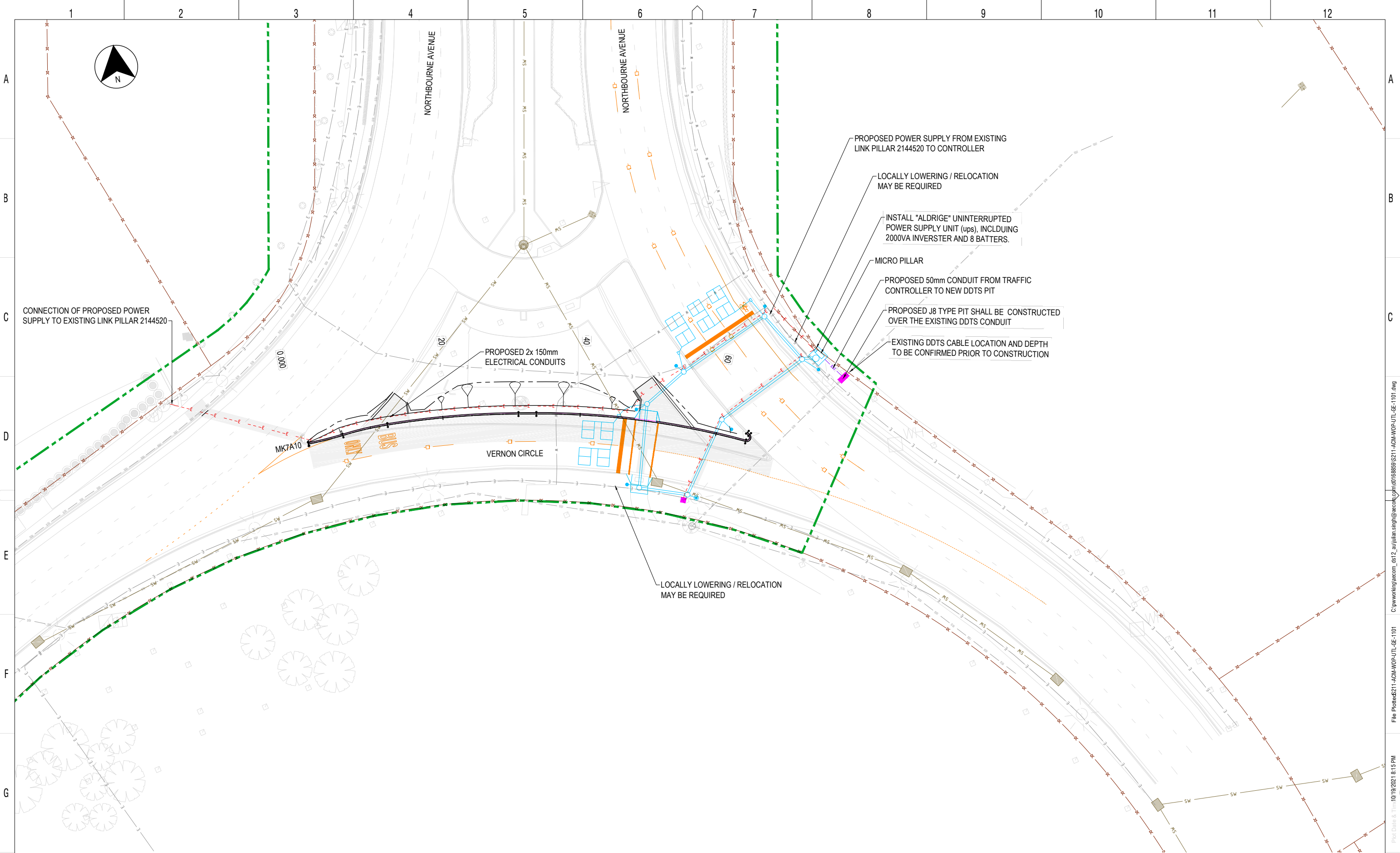
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STATUS:	WORKS APPROVAL ISSUE			
DRG No.	S211-ACM-WOP-UTL-GE-1001	EDMS No.		

SCALE @ A1

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Printed by: SINGU

DF 801\*554



CONNECTION OF PROPOSED POWER SUPPLY TO EXISTING LINK PILLAR 2144520

PROPOSED 2x 150mm ELECTRICAL CONDUITS

PROPOSED POWER SUPPLY FROM EXISTING LINK PILLAR 2144520 TO CONTROLLER

LOCALLY LOWERING / RELOCATION MAY BE REQUIRED

INSTALL "ALDRIGE" UNINTERRUPTED POWER SUPPLY UNIT (ups), INCLUDING 2000VA INVERSTER AND 8 BATTERS.

MICRO PILLAR

PROPOSED 50mm CONDUIT FROM TRAFFIC CONTROLLER TO NEW DDTs PIT

PROPOSED J8 TYPE PIT SHALL BE CONSTRUCTED OVER THE EXISTING DDTs CONDUIT

EXISTING DDTs CABLE LOCATION AND DEPTH TO BE CONFIRMED PRIOR TO CONSTRUCTION

LOCALLY LOWERING / RELOCATION MAY BE REQUIRED

**NOT FOR CONSTRUCTION**

SCALE 1:250

SCALE @ A1

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DRAWN S NAIDU  
 DESIGNED V LIM  
 DRG CHECK J SINGH  
 DESIGN CHECK L MULYADI  
 APPROVED J PETERS

**VCN WORKS APPROVAL**  
 UTILITIES  
**VERNON CIRCLE NORTH EARLY WORKS**  
 GENERAL ARRANGEMENT  
 SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS: WORKS APPROVAL ISSUE	©	
DRG No. S211-ACM-WOP-UTL-GE-1101	EDMS No.	A

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 Plot Date & Time: 10/19/2021 8:15 PM  
 DF 801\*554

**GENERAL NOTES:**

1. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS CLEARLY MARKED AS SUCH
2. ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. URBAN DESIGN AND LANDSCAPE DOCUMENTATION IS ONLY TO BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED. UNAUTHORISED USE OF THIS DOCUMENT IS PROHIBITED.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
5. THE CONTRACTOR IS TO CONFIRM THE LOCATION OF ANY UNDERGROUND SERVICES PRIOR TO UNDERTAKING ANY EXCAVATION WORKS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICES AND OBTAINING CLEARANCES AND APPROVALS.
7. THE CONTRACTOR SHALL SET OUT THE WORKS TO THE LINES, LEVELS AND DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, OR DIRECTED BY THE SUPERINTENDENT, FROM ACT SURVEY OFFICE PERMANENT MARKS AND BENCH MARKS IN THE AREA

Ground Covers - Mass Planting						
Code	Botanical Name	Common Name	Pot Size	Spacing	Density plants/m2	Mix
JNs	<i>Juniperus sabina</i>	Savin Juniper	140mm	300	3	100%

Turf						
Code	Botanical Name	Common Name	Pot Size	Spacing	Density plants/m2	Mix
DGM	<i>Dryland Grass Mix</i>	<i>Dryland Grass Mix</i>				
NMDGM	<i>Non-mowable Dryland Grass Mix</i>	<i>Non-mowable Dryland Grass Mix</i>				

- Notes:**
- 1) Do not plant grasses and groundcovers within: 500mm of streetscape paths, 300mm of other paths or structures
  - 2) Mature height and spread are estimates only

**GENERAL**

- EPBCI BOUNDARY
- CADASTRAL BOUNDARY

**PAVEMENT SURFACES**

- P-201 CONCRETE FOOTPATH AND KERB RAMP**  
AS PER LAYOUT PLANS  
COLOUR / FINISH : TO MATCH EXISTING  
LOCATION: VERNON CIRCUIT PEDESTRIAN CROSSINGS
- P-212 CONCRETE FOOTPATH**  
AS PER LAYOUT PLANS  
COLOUR / FINISH : TO MATCH EXISTING  
LOCATION: VERNON CIRCUIT FOOTPATH
- P-554 TGSI**  
REFER MATERIALS SCHEDULE  
LOCATION: VERNON CIRCUIT PEDESTRIAN CROSSINGS
- P-590 DECO GRANITE**  
REFER SPECIFICATION  
COLOUR / FINISH : TO MATCH EXISTING  
LOCATION: VERNON CIRCUIT PATHWAY

**EDGING**

- P-102 CONCRETE EDGE**  
SIZE: VARIES  
COLOUR / FINISH : TO MATCH EXISTING  
LOCATION: GARDEN / TURF / PAVING INTERFACE SHOWN ON PLANS

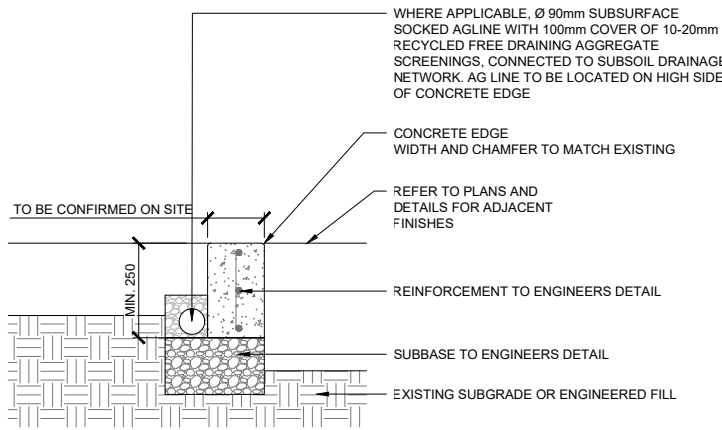
**SOFTSCAPE WORKS**

- SOF-101 SOFTSCAPE TREATMENT (PLANTING)**  
JUNIPER PLANTING ONLY  
REFER TO PLANTING SCHEDULE FOR ADDITIONAL DETAILS
- SOF-401 SOFTSCAPE TREATMENT (TURF)**  
REFER TO INDICATIVE PLANTING SCHEDULE FOR ADDITIONAL DETAILS



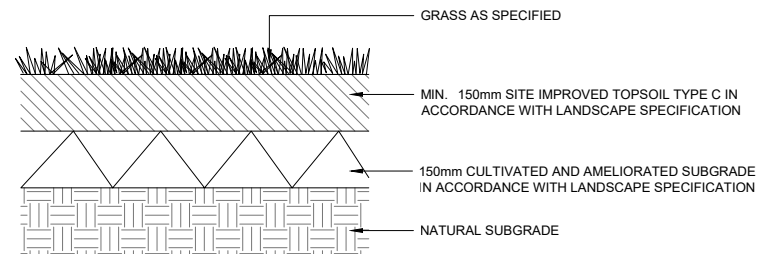
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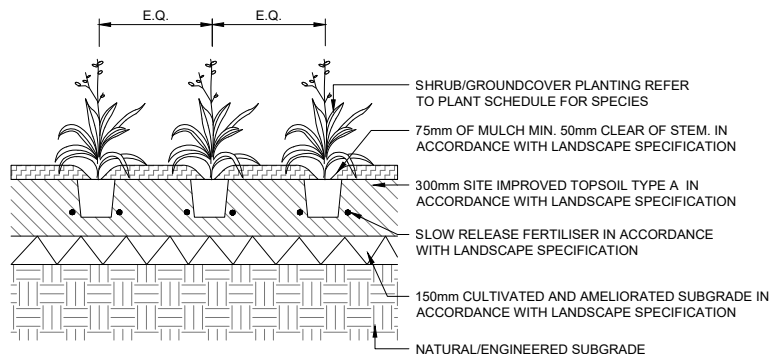
**01 | CONCRETE EDGE (EDG-102)**

SCALE 1:10



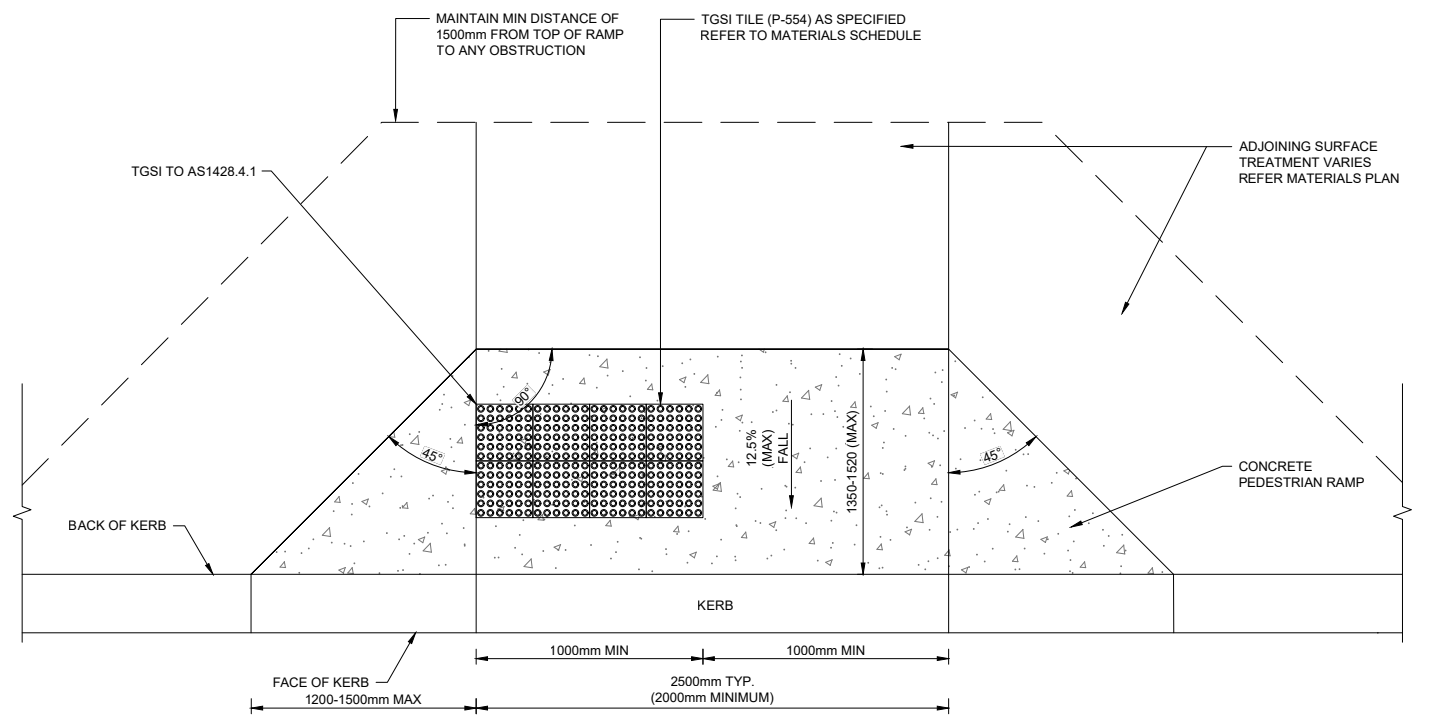
**02 | TYPICAL GRASS DETAIL (SOF-401)**

SCALE 1:10



**03 | TYPICAL MASS PLANTING**

SCALE 1:20



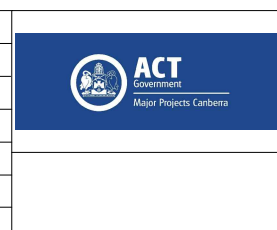
**04 | TYPICAL CONCRETED KERB RAMP - PLAN**

SCALE 1:20

**NOT FOR CONSTRUCTION**

AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	HC 20.10.21	SC 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO HEIGHT DATUM: AHD SCALE: AS SHOWN



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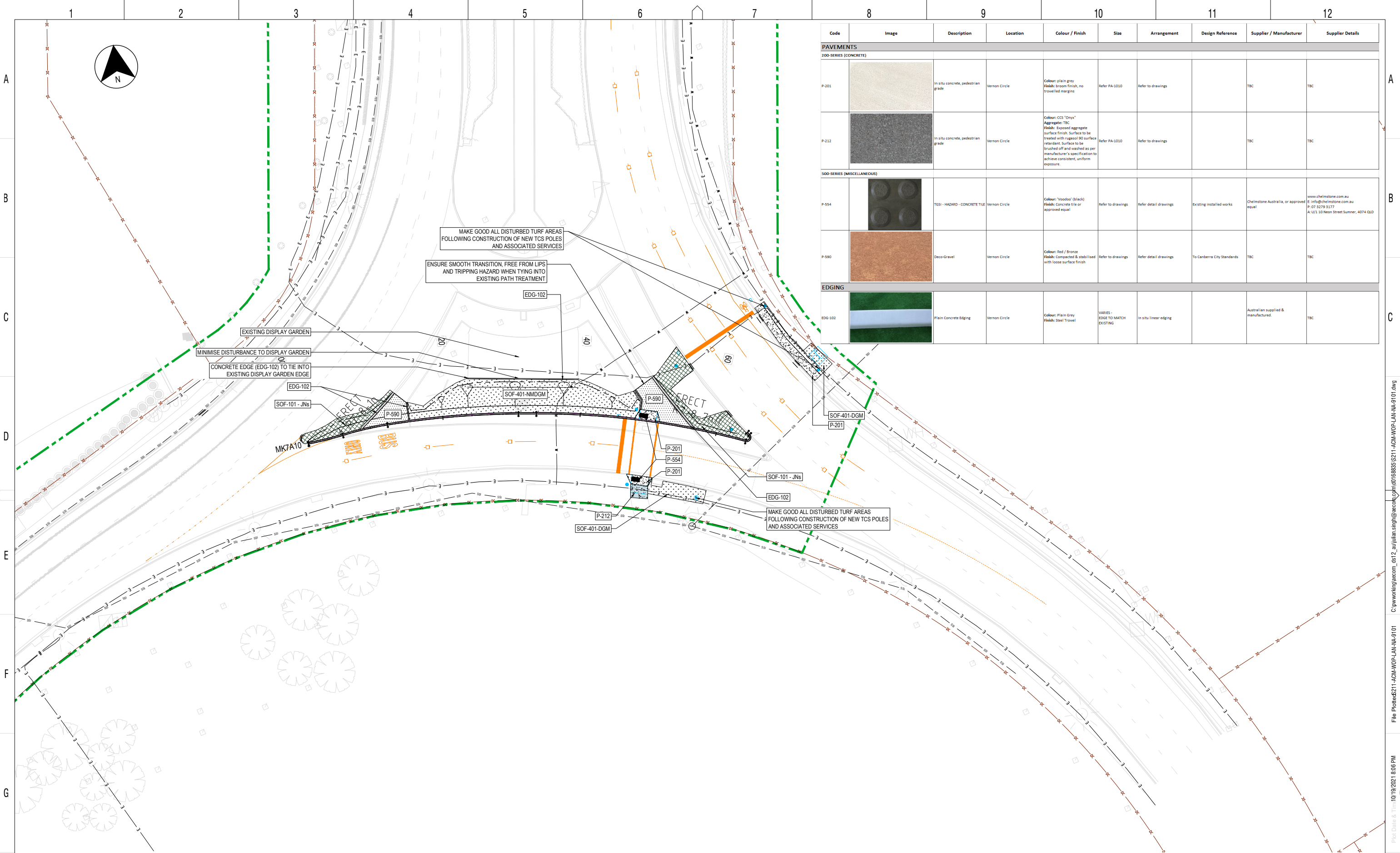
DRAWN: H CARLYLE  
DESIGNED: H CARLYLE  
DRG CHECK: H ROSSER  
DESIGN CHECK: S CALLAGHAN  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
LANDSCAPE  
VERNON CIRCLE NORTH EARLY WORKS  
GENERAL NOTES, LEGEND & DETAILS  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS: WORKS APPROVAL ISSUE	EDMS No.	
DRG No: S211-ACM-WOP-LAN-NA-9001		A

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 Plot Date & Time: 10/19/2021 8:05 PM  
 Plotted by: SNGU





Code	Image	Description	Location	Colour / Finish	Site	Arrangement	Design Reference	Supplier / Manufacturer	Supplier Details
<b>PAVEMENTS</b>									
<b>200-SERIES (CONCRETE)</b>									
P-201		In situ concrete, pedestrian grade	Vernon Circle	Colour: plain grey Finish: broom finish, no trowelled margins	Refer PA-102D	Refer to drawings		TBC	TBC
P-212		In situ concrete, pedestrian grade	Vernon Circle	Colour: CCS "Dmya" Aggregate: TBC Finish: Exposed aggregate surface finish. Surface to be treated with sagsol 90 surface retardant. Surface to be brushed off and washed as per manufacturer's specification to achieve consistent, uniform exposure.	Refer PA-102D	Refer to drawings		TBC	TBC
<b>500-SERIES (MISCELLANEOUS)</b>									
P-554		TGS1 - HAZARD - CONCRETE TILE	Vernon Circle	Colour: 'Voodoo' (black) Finish: Concrete tile or approved equal	Refer to drawings	Refer detail drawings	Existing installed works	Chelmsstone Australia, or approved equal	www.chelmsstone.com.au E: info@chelmsstone.com.au P: 07 3279 3177 A: U/1 10 Neeson Street Summer, 4074 QLD
P-590		Deco-Gravel	Vernon Circle	Colour: Red / Bronze Finish: Compacted & stabilised with loose surface finish	Refer to drawings	Refer detail drawings	To Canberra City Standards	TBC	TBC
<b>EDGING</b>									
EDG-102		Plain Concrete Edging	Vernon Circle	Colour: Plain Grey Finish: Steel Trowel	VARIES - EDGE TO MATCH EXISTING	In situ linear edging		Australian supplied & manufactured.	TBC

**NOT FOR CONSTRUCTION**

SCALE 1:250

SCALE @ A1

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A	ISSUED FOR WORKS APPROVAL	HC 20.10.21	SC 20.10.21	JP 20.10.21
AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
CO-ORDINATE SYSTEM: STROMLO		HEIGHT DATUM: AHD		SCALE: AS SHOWN

ACT Government  
Major Projects Canberra

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**AECOM**  
AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

DRAWN: H CARLYLE  
DESIGNED: H CARLYLE  
DRG CHECK: H ROSSER  
DESIGN CHECK: S CALLAGHAN  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
LANDSCAPE  
VERNON CIRCLE NORTH EARLY WORKS  
GENERAL ARRANGEMENT  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL SHEET: 01 OF 01 A1  
STATUS: WORKS APPROVAL ISSUE ©  
DRG No. S211-ACM-WOP-LAN-NA-9101 EDMS No. A

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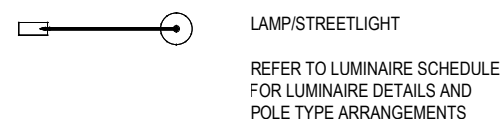
**LIGHTING NOTES**

- ALL LIGHTING WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH TCCS DESIGN SPECIFICATIONS FOR LIGHTING WORKS, INCLUDING TRITS NUMBER 12 AND TRIS NUMBER 2 ATTACHMENT A. WORKS SHALL REFERENCE AND COMPLY WITH EVOENERGY DOCUMENTS WHERE APPLICABLE. ELECTRICAL WORK SHALL COMPLY WITH AS/NZS 3000.
- EARTHING REQUIREMENTS SHALL BE IN ACCORDANCE WITH AS 3000 AND TO TCCS STANDARD DRAWING DS12-01-20.
- PRIOR TO CONNECTION TO EXISTING STREET LIGHTING CIRCUIT, ARRANGE FOR ISOLATION OF CIRCUIT BY EVOENERGY OR TCCS. INSTALLATION OF STREET LIGHTING ASSETS MAY NOT BE UNDERTAKEN WITHOUT PERMISSION FROM UTILITY PROVIDER.
- BEFORE COMMENCING ANY CONSTRUCTION WORK, THE CONTRACTOR SHALL PERFORM A DBYD INVESTIGATION TO IDENTIFY EXISTING SERVICES. DATA OBTAINED FROM THE DBYD IS TO BE CONFIRMED WITH SITE SURVEYS, AND WITH THE UTILITIES OWNERS AND ALL NECESSARY CLEARANCES TO THE EXISTING SERVICES IDENTIFIED.
- COLUMNS AND OUTREACH ARMS SHALL COMPLY WITH AS 1798.
- THE CONTRACTOR SHALL PREPARE WORK AS EXECUTED DRAWINGS FOR ALL WORKS, INCLUDING DEMOLITION WORKS AND NEW WORKS. WORKS AS EXECUTED DRAWINGS SHALL COMPLY WITH TAMS REQUIREMENTS DESCRIBED IN TAMS REFERENCE DOCUMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INFORMATION ON THE SPATIAL MAPPING (STROMLO NORTHING AND EASTING COORDINATES) FOR ALL NEW ASSETS. THESE ARE TO BE ADDED TO THE TABLES PROVIDED ON DRAWINGS AND SUBMITTED WITH THE WORK AS EXECUTED DRAWINGS.
- STREET LIGHTING SHALL BE INSTALLED ON 3 PHASE CIRCUITS USING 4 CORE 16mm<sup>2</sup>, XLPE INSULATED, LSZH STRANDED COPPER CABLES AS PER TCCS STANDARD UNO. CABLES SHALL HAVE A MINIMUM OF V90 INSULATION WITH ACTIVE CABLES COLOURED RED, WHITE, BLUE, AND NEUTRAL COLOURED BLACK. CIRCUIT PHASING FOR NEW COLUMNS SHALL BE AS DETERMINED ON-SITE AND SHALL BE COORDINATED WITH EXISTING STREET LIGHTING PHASING ARRANGEMENT TO ENSURE NETWORK PHASE BALANCING.
- CONDUITS TO BE 63mm DIAMETER ORANGE HEAVY DUTY CATEGORY A RIGID PVC TO TCCS STANDARDS AND AS 2053 WITH CLEARANCES AS PER TABLE 1 AND DEPTH AS PER DETAIL 1. WHERE CONDUITS CROSS KERB LINES, THE LOCATION SHALL BE MARKED WITH AN 'E' STAMPED INTO THE KERB. TRENCHING DETAILS AND ARRANGEMENT AS PER EVOENERGY CONDUIT TECHNICAL STANDARDS EN4.04.P04.
- EACH COLUMN SHALL HAVE A CIRCUIT BREAKER FOR EACH LUMINAIRE, AND THE CIRCUIT BREAKER/S SHALL BE LOCATED AT THE BASE OF THE COLUMN ON A TCCS STANDARD LINK PANEL AS PER TCCS STANDARD DRAWINGS DS12 CATEGORY 01.
- CONNECT NEW STREET LIGHTING CABLING TO THE EXISTING STREETLIGHT NETWORK WHERE INDICATED.
- CHECK ALL DIMENSIONS AND QUANTITIES ON SITE TO ENSURE ACCURACY.
- WHERE EXISTING CABLING IS REDIRECTED TO NEW COLUMNS, PROVIDE NEW CABLES TO EACH ADJACENT COLUMN. NO JOINTING CABLES WILL BE ACCEPTED. REUSE EXISTING CONDUIT WHERE POSSIBLE.
- DO NOT SCALE DIMENSIONS OR SETOUTS FROM LIGHTING DRAWINGS.
- WHERE STREET LIGHT COLUMNS INCLUDE TRAFFIC SIGNALS, THESE COLUMNS MUST BE SUPPLIED FROM A TRAFFIC SIGNAL CONTROL BOX, NOT A STREET LIGHT CONTROL CUBICLE.
- PROPOSED NEW LIGHTING HEAD UNITS TO BE 3.0m AWAY FROM ANY OVERHEAD CONDUCTOR WIRE.
- PROPOSED FYNTRIM MULTIPLES LIGHTING COLUMNS FOUNDATIONS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE PILED FOOTING DESIGN.
- LUMINAIRES SHALL BE COMPLIANT WITH AS 1158.6. THEY SHALL BE INTEGRAL CONTROL GEAR TYPE, POWER FACTOR CORRECTED TO 0.9pf AND HAVE INTEGRAL PHOTO-ELECTRIC CELL CONTROL CAPABILITIES.
- ALL LUMINAIRES SHALL COMPLY WITH EMC REQUIREMENTS OF AS4251.1.
- GROUND MOUNTED CONTROL POINTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING DS12 CATEGORY 01.

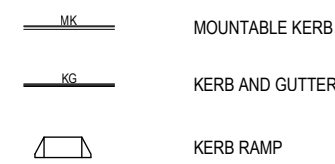
**ABBREVIATIONS**

- A AMPERE
- CUP COMBINED USE POLE
- DBYD DIAL BEFORE YOU DIG
- DWG DRAWING
- N NEUTRAL
- NTS NOT TO SCALE
- PH PHASE
- E EARTH
- ELV EXTRA LOW VOLTAGE
- LV LOW VOLTAGE
- XLPE CROSS-LINKED POLYETHYLENE
- MH MOUNTING HEIGHT
- SL STREET LIGHT (ASSET NUMBER)
- PVC POLY VINYL CHLORIDE
- UNO UNLESS NOTED OTHERWISE
- WP WEATHERPROOF
- WAE WORKS AS EXECUTED
- OR OUTREACH
- XXX NEW STREET LIGHTING ASSET NUMBER
- TCCS TRANSPORT CANBERRA AND CITY SERVICES
- TSCC TRAFFIC SIGNAL CONTROL CUBICLE

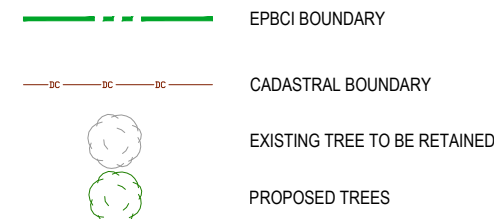
**STREET LIGHTING**



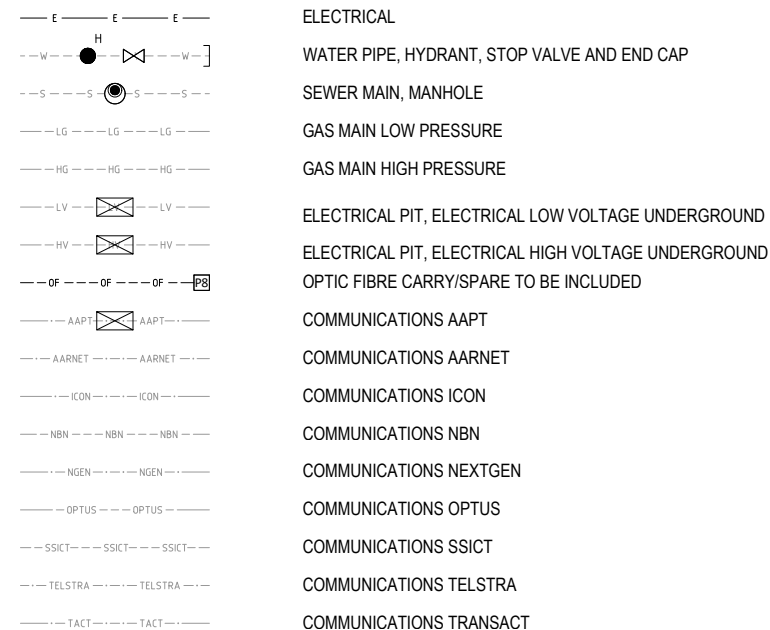
**PROPOSED ROAD WORKS**



**GENERAL**



**UTILITIES**

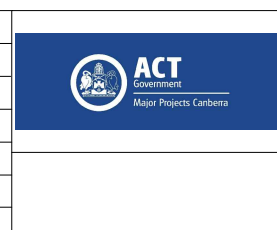


SCALE @ A1

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CO-ORDINATE SYSTEM:	STROMLO	HEIGHT DATUM:	AHD	SCALE:	AS SHOWN
A	ISSUED FOR WORKS APPROVAL	GT 20.10.21	AA 20.10.21	JP 20.10.21	
AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE	



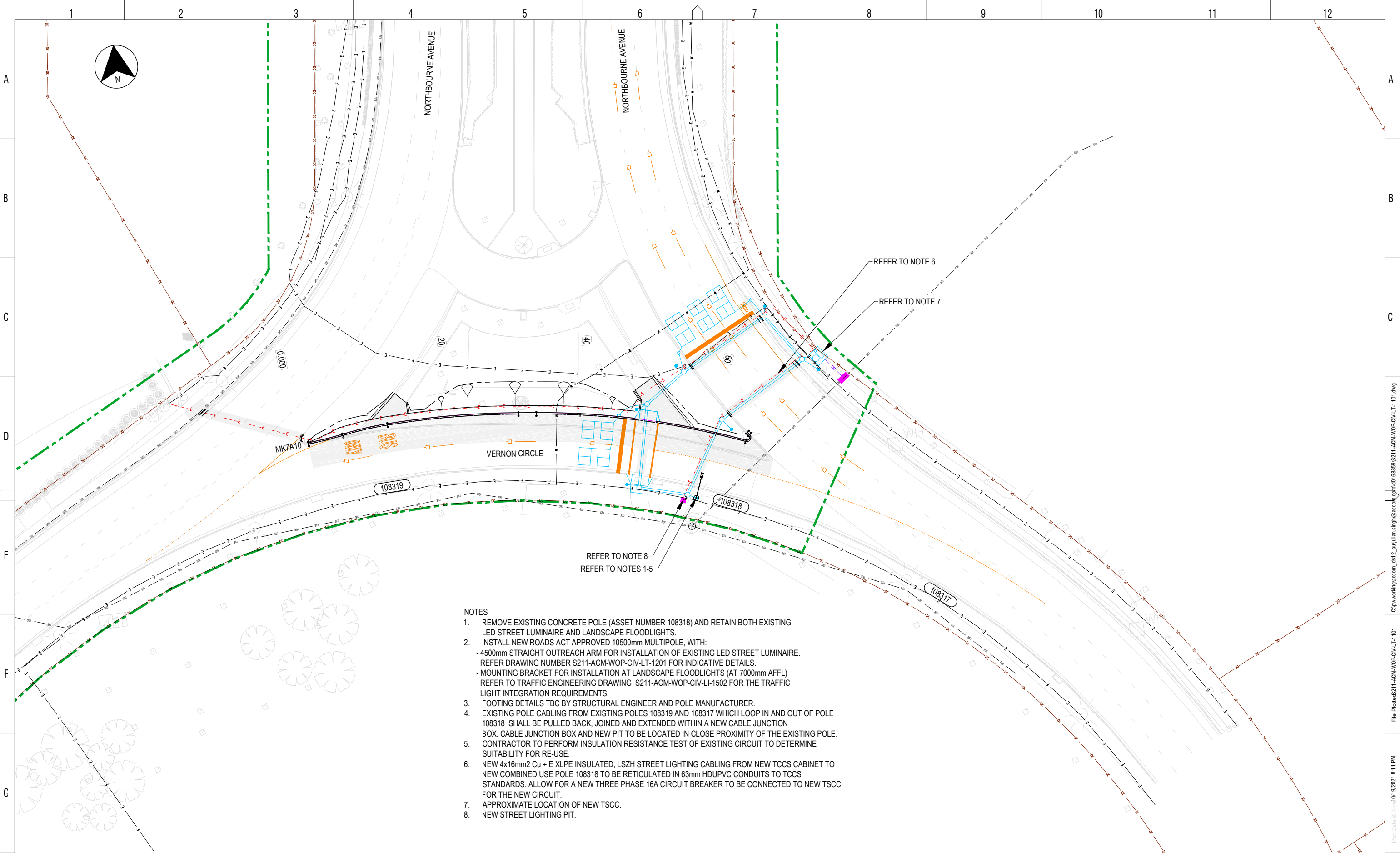
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DRAWN S NAIDU  
DESIGNED G THEORODOPOULAS  
DRG CHECK J SINGH  
DESIGN CHECK R OLIVEIRA  
APPROVED J PETERS

<b>VCN WORKS APPROVAL</b>			
LIGHTING			
VERNON CIRCLE NORTH EARLY WORKS			
GENERAL NOTES & LEGEND			
SHEET 1			
DESIGN LOT No:	S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE		
DRG No.	S211-ACM-WOP-CIV-LT-1001	EDMS No.	
			A

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- NOTES**
- REMOVE EXISTING CONCRETE POLE (ASSET NUMBER 108318) AND RETAIN BOTH EXISTING LED STREET LUMINAIRE AND LANDSCAPE FLOODLIGHTS.
  - INSTALL NEW ROADS ACT APPROVED 10500mm MULTIPOLE, WITH:
    - 4500mm STRAIGHT OUTREACH ARM FOR INSTALLATION OF EXISTING LED STREET LUMINAIRE. REFER DRAWING NUMBER S211-ACM-WOP-CIV-LT-1201 FOR INDICATIVE DETAILS.
    - MOUNTING BRACKET FOR INSTALLATION AT LANDSCAPE FLOODLIGHTS (AT 7000mm AFFL) REFER TO TRAFFIC ENGINEERING DRAWING S211-ACM-WOP-CIV-LI-1502 FOR THE TRAFFIC LIGHT INTEGRATION REQUIREMENTS.
  - FOOTING DETAILS TBC BY STRUCTURAL ENGINEER AND POLE MANUFACTURER.
  - EXISTING POLE CABLING FROM EXISTING POLES 108319 AND 108317 WHICH LOOP IN AND OUT OF POLE 108318 SHALL BE PULLED BACK, JOINED AND EXTENDED WITHIN A NEW CABLE JUNCTION BOX. CABLE JUNCTION BOX AND NEW PIT TO BE LOCATED IN CLOSE PROXIMITY OF THE EXISTING POLE.
  - CONTRACTOR TO PERFORM INSULATION RESISTANCE TEST OF EXISTING CIRCUIT TO DETERMINE SUITABILITY FOR RE-USE.
  - NEW 4x16mm<sup>2</sup> Cu + E XLPE INSULATED, LSZH STREET LIGHTING CABLING FROM NEW TCCS CABINET TO NEW COMBINED USE POLE 108318 TO BE RETICULATED IN 63mm HDUPVC CONDUITS TO TCCS STANDARDS. ALLOW FOR A NEW THREE PHASE 16A CIRCUIT BREAKER TO BE CONNECTED TO NEW TSCC FOR THE NEW CIRCUIT.
  - APPROXIMATE LOCATION OF NEW TSCC.
  - NEW STREET LIGHTING PIT.

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SCALE 1:250  
SCALE @ A1

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CO-ORDINATE SYSTEM: STROMLO HEIGHT DATUM: AHD SCALE: AS SHOWN



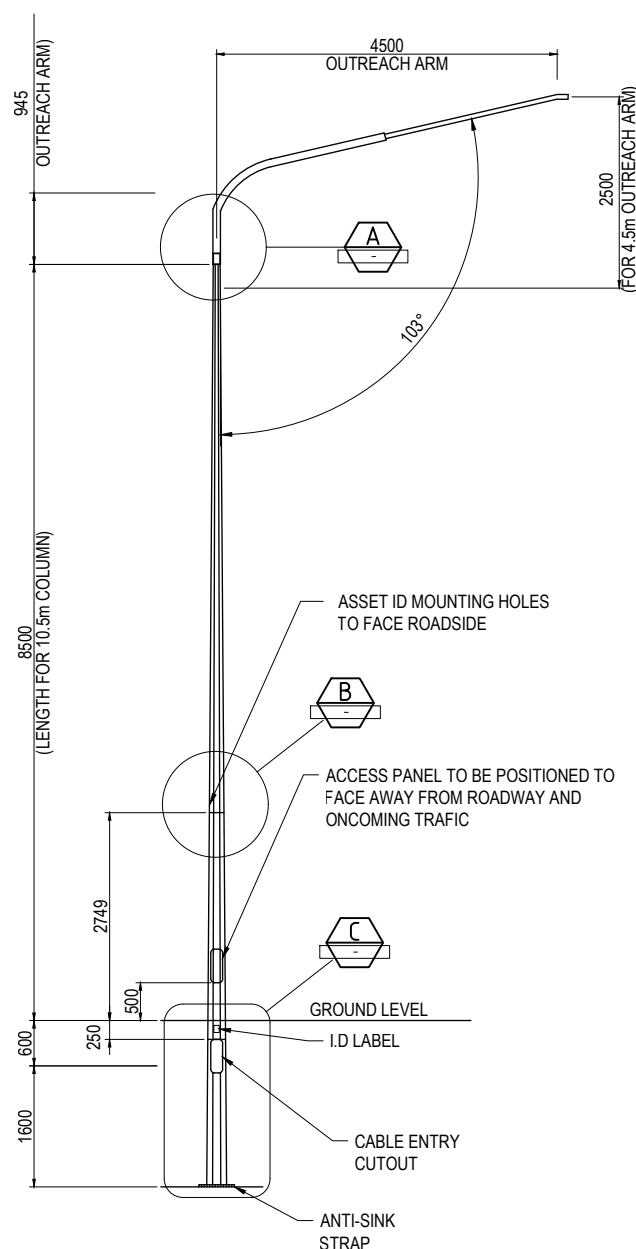
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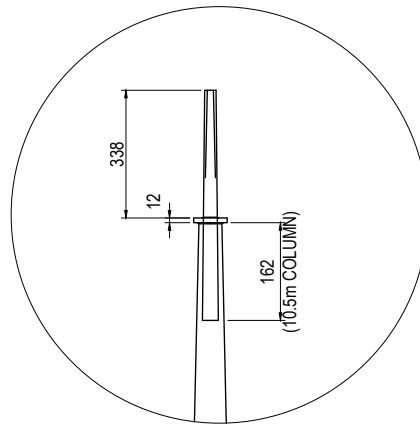
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DESIGNED G THEORODOPOULAS  
DRG CHECK J SINGH  
DESIGN CHECK R OLIVEIRA  
APPROVED J PETERS

<b>VCN WORKS APPROVAL</b>			
LIGHTING			
VERNON CIRCLE NORTH EARLY WORKS			
GENERAL ARRANGEMENT			
SHEET 1			
DESIGN LOT No:	S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE		
DRG No.	S211-ACM-WOP-CIV-LT-1101	EDMS No.	

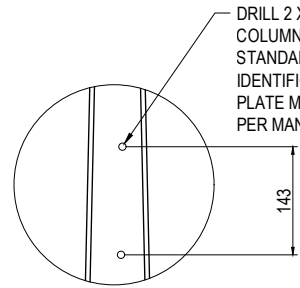
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**10.5m IMPACT ABSORBING IN-GROUND MOUNTED STREET LIGHT DETAIL (TYP.)**  
SCALE: 1:50

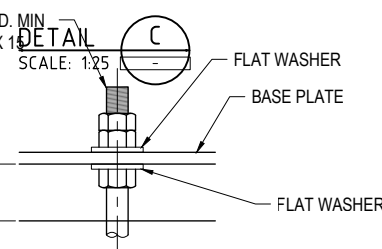
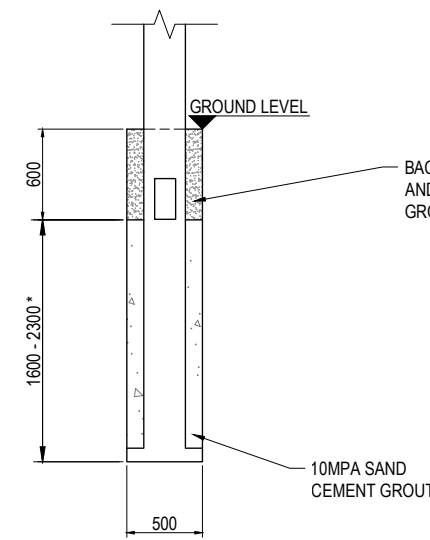


**DETAIL A**  
SCALE: 1:10

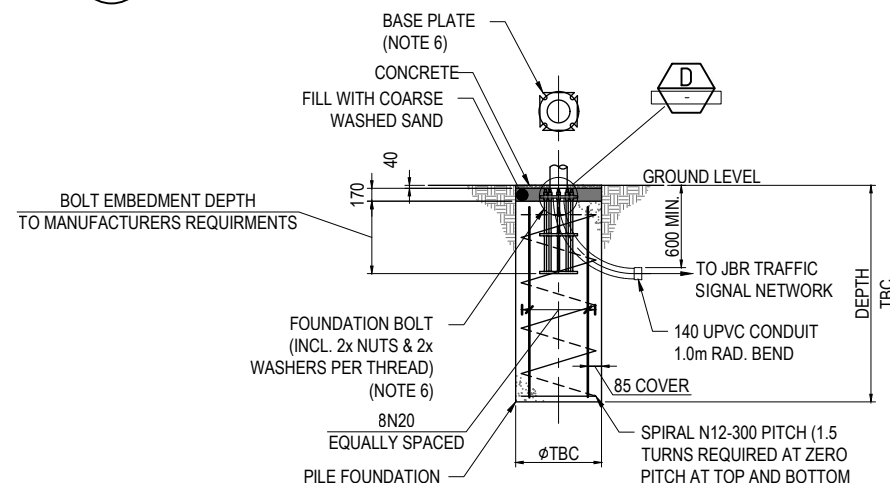


**DETAIL B**  
SCALE: 1:5

DRILL 2 X 3.2mm HOLES OPPOSITE DOOR FOR COLUMN IDENTIFICATION PLATE. REFER TCCS STANDARD DRAWING DS12-01-23 FOR IDENTIFICATION PLATE TYPICAL DETAILS. ID PLATE MOUNTED TO 4m PEDESTRIAN POLE AS PER MANUFACTURERS PROVISIONS



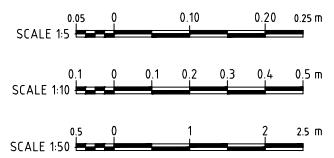
**DETAIL D**  
SCALE: 1:5



**BASE PLATE MOUNTED AND COMBINED USE POLE FOOTING DETAIL (TYP.)**  
SCALE: NTS

# THE TARGET SOIL STRENGTH FOR THE FOUNDATION MATERIALS ASSUMES:  
UNDRAINED SHEAR STRENGTH,  $S_u = 50 \text{ kPa}$  (COHESIVE SOILS)  
OR  $\phi = 35^\circ$  (COHESIONLESS MATERIALS)

- NOTES:**
- ALL DIMENSIONS ARE IN mm.
  - COLUMN DESIGN TO COMPLY WITH AS 1170 & AS 1798.
  - ALL WELDING TO COMPLY WITH AS 1554.
  - GALVANISING TO CONFORM TO AS/NZS 4680.
  - PAINT FINISH TO AS 3887 CATEGORY LONG TERM.
  - BASE PLATE AND FOUNDATION BOLT ASSEMBLIES SHALL BE FABRICATED TO THE REQUIREMENTS SPECIFIED BY THE COLUMN MANUFACTURER. INSTALLATION SHALL BE IN ACCORDANCE WITH COLUMN MANUFACTURER REQUIREMENTS.
  - EXPOSURE CLASSIFICATION FOR THE PILE FOUNDATION IS MODERATE IN ACCORDANCE WITH AS 2159. THIS SHALL BE CONFIRMED ON SITE.
  - PILE FOUNDATION CONCRETE GRADE SHALL BE N40.
  - COMBINED USE POLE SHALL BE BASE PLATE MOUNTED.
  - COMBINED USE POLE DETAIL SHALL MATCH LOOK OF THE EXISTING POLES. FOR ALTERNATIVE POLE DETAIL AND COLOUR, THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR REVIEW AND APPROVAL.



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POLE AND LUMINAIRE CONFIGURATIONS											
POLE ID	COLUMN/TYPE	COLUMN HEIGHT	COMBINED USE WITH TRAFFIC	COMBINED USE WITH WIFI	LUMINAIRE 1	OUTREACH	MOUNTING HEIGHT	LUMINAIRE 2	OUTREACH	MOUNTING HEIGHT	SLCC OR TCCS
<b>VERNON CIRCLE - EXISTING POLE RELOCATION</b>											
108-318	GALVANISED STEEL TYPE WITH CURVED OUTREACH	10.5	YES	NO	EXISTING	4.5	10.5	N/A	N/A	N/A	TSCC

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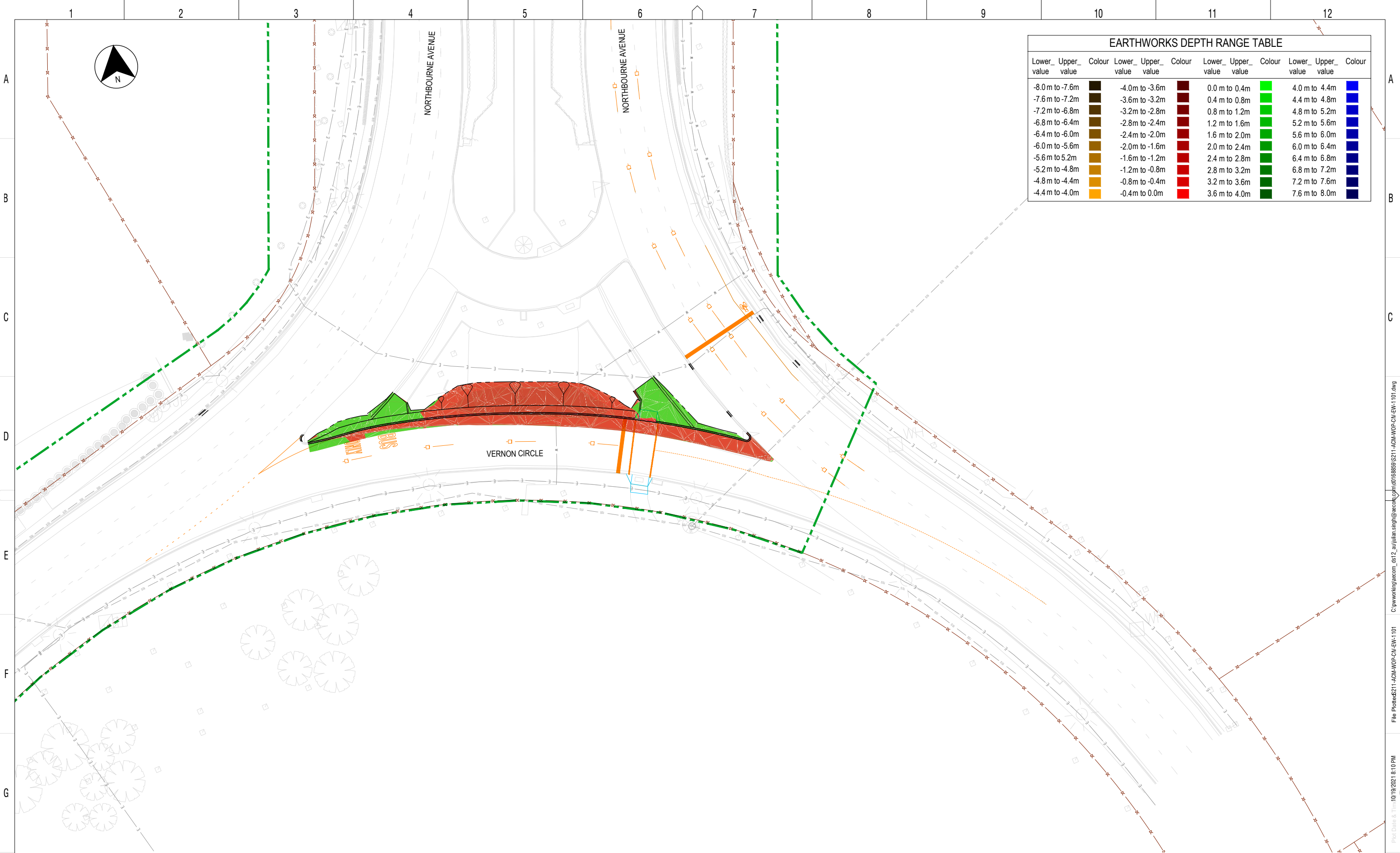
DRAWN: S NAIDU  
DESIGNED: G THEORODOPOULAS  
DRG CHECK: J SINGH  
DESIGN CHECK: R OLIVERIA  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
LIGHTING  
VERNON CIRCLE NORTH EARLY WORKS  
COMBINED USE POLE DETAILS  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL SHEET: 01 OF 01 A1  
STATUS: WORKS APPROVAL ISSUE ©  
DRG No: S211-ACM-WOP-CIV-LT-1201 EDMS No. A

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Lower value	Upper value	Colour	Lower value	Upper value	Colour	Lower value	Upper value	Colour	Lower value	Upper value	Colour
-8.0 m	-7.6 m	Black	-4.0 m	-3.6 m	Dark Red	0.0 m	0.4 m	Bright Green	4.0 m	4.4 m	Blue
-7.6 m	-7.2 m	Dark Brown	-3.6 m	-3.2 m	Red	0.4 m	0.8 m	Green	4.4 m	4.8 m	Blue
-7.2 m	-6.8 m	Brown	-3.2 m	-2.8 m	Dark Red	0.8 m	1.2 m	Bright Green	4.8 m	5.2 m	Blue
-6.8 m	-6.4 m	Dark Olive	-2.8 m	-2.4 m	Red	1.2 m	1.6 m	Green	5.2 m	5.6 m	Blue
-6.4 m	-6.0 m	Olive	-2.4 m	-2.0 m	Dark Red	1.6 m	2.0 m	Bright Green	5.6 m	6.0 m	Blue
-6.0 m	-5.6 m	Dark Yellow	-2.0 m	-1.6 m	Red	2.0 m	2.4 m	Green	6.0 m	6.4 m	Blue
-5.6 m	-5.2 m	Yellow	-1.6 m	-1.2 m	Dark Red	2.4 m	2.8 m	Bright Green	6.4 m	6.8 m	Blue
-5.2 m	-4.8 m	Orange	-1.2 m	-0.8 m	Red	2.8 m	3.2 m	Green	6.8 m	7.2 m	Blue
-4.8 m	-4.4 m	Light Orange	-0.8 m	-0.4 m	Dark Red	3.2 m	3.6 m	Bright Green	7.2 m	7.6 m	Blue
-4.4 m	-4.0 m	Yellow	-0.4 m	0.0 m	Red	3.6 m	4.0 m	Green	7.6 m	8.0 m	Blue

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SCALE 1:250  
 SCALE @ A1

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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	AJ 20.10.21	RW 20.10.21	JP 20.10.21

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DRAWN: S NAIDU  
 DESIGNED: A JIAD  
 DRG CHECK: J SINGH  
 DESIGN CHECK: C VAVOULAS  
 APPROVED: J PETERS

**VCN WORKS APPROVAL**  
 EARTHWORKS  
 VERNON CIRCLE NORTH EARLY WORKS  
 GENERAL ARRANGEMENT  
 SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS: WORKS APPROVAL ISSUE	©	
DRG No: S211-ACM-WOP-CIV-EW-1101	EDMS No:	A

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**GENERAL**

1. A DEFINITION OF THE TERMS AND ABBREVIATIONS IS CONTAINED IN THE RMS PAVEMENT STANDARD DRAWINGS - ASPHALT NEW CONSTRUCTION, SHEET 2.
2. NOT USED
3. DIMENSIONS: ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE;  
ALL PAVEMENT DIMENSIONS RELATE TO COMPACTED LAYER THICKNESSES.

**ASPHALT**

4. ASPHALT THICKNESS SHALL MATCH THAT OF EXISTING ASPHALT IDENTIFIED IN PAVEMENT ADJACENT TO PROPOSED WORKS. CONTRACTOR SHALL ALLOW FOR PRINCIPAL'S AUTHORISED PERSON (PAP) TO VISUALLY ASSESS THE EXISTING PAVEMENT MAKE UP ADJACENT TO THE PROPOSED PAVEMENT WORKS ONCE EXPOSED AND CONTRACTOR OBTAIN ADVICE ON PROPOSED PAVEMENT WORKS PRIOR TO COMMENCEMENT.
5. THE ALLOWABLE ASPHALT LAYER THICKNESS FOR REGULATION OR VARIABLE THICKNESS LAYERS ARE LISTED IN TABLE 1.
6. HAND PLACEMENT OF ASPHALT IS ONLY PERMITTED FOR AREAS WHERE PLACEMENT WITH A PAVING MACHINE IS IMPRACTICAL AND LOCALISED WIDENING TO 1.2m CANNOT BE READILY ACHIEVED.
7. THE MINIMUM PAVING WIDTH IS 1.2 m.
8. ALL LOOSE, CRACKED AND /OR BONEY MATERIAL AT THE EDGE OF A PAVED MAT MUST BE REMOVED PRIOR TO PLACING THE ADJACENT MAT.
9. EACH JOINT MUST BE FINISHED WITH A SMOOTH, PLANAR SURFACE COINCIDING WITH THE SURFACE OF THE REST OF THE MAT AND SATISFYING THE SURFACE SHAPE REQUIREMENTS SPECIFIED IN R116, R117, R119 OR R121.

**ASPHALT JOINT LAYOUT DESIGN**

10. THE LOCATION OF MANDATORY LONGITUDINAL AND TRANSVERSE ASPHALT JOINTS ARE SHOWN ON THE DRAWINGS
11. LONGITUDINAL ASPHALT JOINTS IN THE WEARING COURSE AND THE TOP TWO INTERMEDIATE ASPHALT LAYERS MUST BE LOCATED WITHIN ± 25 mm OF LINE MARKINGS OR AT THE CENTER OF THE LANE, UNLESS NOTED ON THE DRAWINGS.
12. LONGITUDINAL ASPHALT JOINTS MUST BE:
  - a. OFFSET BY 150 mm FROM THE JOINT IN THE UNDERLYING LAYERS;
  - b. COINCIDENT WITHIN 150 mm OF THE LINE OF CHANGE IN CROSS FALL.
  - c. COINCIDENT WITH TRAFFIC MARKINGS, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
13. TRANSVERSE ASPHALT JOINTS MUST BE:
  - a. OFFSET BY A MINIMUM OF 1m FROM THE JOINT IN THE UNDERLYING LAYER;
  - b. FORMED AT THE COMMENCEMENT OF EACH PAVING RUN.
14. WHERE NO JOINTS ARE SHOWN ON THE DRAWINGS, THE CONTRACTOR IS PERMITTED TO FORM JOINTS ACCORDING TO ASPHALT PRODUCTION AND PAVING EQUIPMENT AVAILABLE ONSITE AND MEET REQUIREMENTS OF NOTES 10-12.

**ASPHALT MILL AND RESHEET**

15. EXISTING ASPHALT LAYER TO BE MILLED 50mm BELOW DESIGN LEVEL AND REPLACED BY NEW WEARING COURSE. ASPHALT THICKNESS MAY VARY TO MATCH REQUIRED DESIGN LEVELS.
16. NO RESHEETING SHALL BE CARRIED OUT UNTIL ALL BELOW GROUND WORKS SUCH AS UTILITIES WITHIN THE ROADWAY ARE COMPLETED AND SIGNED OFF BY THE PAP.

**WEARING COURSE**

17. DENSE GRADED ASPHALT (DGA) SHALL BE LAID FLUSH WITH THE TOP OF FLUSH KERBS, LIPS OF K&G AND TOES OF MOUNTABLE KERBS.

**TACKCOAT**

18. THE TACKCOAT MUST BE APPLIED AT AN APPLICATION RATE OF BETWEEN 0.15 L/m<sup>2</sup> AND 0.30 L/m<sup>2</sup> OF RESIDUAL BITUMEN. FOR JOINTS, THE APPLICATION RATE MUST BE DOUBLED ON VERTICAL FACES.
19. BITUMEN EMULSION FOR USE AS A TACKCOAT MUST BE CRS/170-60 AND COMPLYING WITH AS 1160.

**PRIMER SEAL AND SEALS**

20. ALL PRIMER SEALS AND SEALS MUST BE APPLIED IN ACCORDANCE WITH R106 AND R107 RESPECTIVELY.
21. SEALS MUST NOT BE PLACED OVER THE TOP OF SUBSURFACE TRENCH DRAINS.

**ASPHALT OVERLAY OF CONCRETE**

22. NOT IN USE.

**KERBS, ISLANDS, MEDIANS AND BARRIERS**

23. KERB DETAILS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS DS3-01 AND DS3-02. REFER TO ROADWORKS PACKAGE FOR FURTHER DETAILS.

**SEALANTS AND FILLERS**

24. WHERE APPLICABLE, SEALANTS AND FILLERS MUST BE IN ACCORDANCE WITH R83.

**CONCRETE BASE**

25. CONCRETE BASE TO BE CONSTRUCTED IN ACCORDANCE WITH MITS-06B-PATHS, DRIVEWAYS AND MEDIANS.
26. EXPANSION JOINTS IN PAVERS MUST ALIGN WITH EXPANSION JOINTS IN CONCRETE PAVEMENT CONCRETE BASE.
27. JOINTING LAYOUT TO BE PROVIDED IN LATER DESIGN STAGE.

**EARTHWORKS**

28. ALL EARTHWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH R44.
29. SUBGRADE PREPARATION FOR ROADWORKS SHALL BE IN ACCORDANCE WITH R44

**NO FINES CONCRETE**

30. NO FINES CONCRETE TO BE CONSTRUCTED IN ACCORDANCE WITH RMS 3222.
31. WHERE APPLICABLE, NFC UNDER KERBS TO BE MINIMUM 100mm THICK.

**GEOTEXTILE**

32. GEOTEXTILES TO BE PLACED IN ACCORDANCE WITH R63.

**VERGES**

33. REFER TO LANDSCAPE PLANS FOR FINISHED SURFACE TREATMENTS AND THESE PAVEMENT DETAILS.
34. NOT IN USE.





**SUBSOIL DRAINAGE**

35. SUBSOIL DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH TRITS STANDARD DRAWINGS ACTSD-0301 AN ACTSD-0302 UNLESS OTHERWISE SHOWN.

**TABLE 1:**

ALLOWABLE ASPHALT LAYER THICKNESS (mm)		
ASPHALT TYPE	AC14	AC20
ASPHALT THICKNESS	42 - 70	60 - 100

**PAVEMENT PLAN LEGEND**

-  PT1A
-  PT4
-  PT5
-  PTD

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A	ISSUED FOR WORKS APPROVAL	GB 20.10.21	SK 20.10.21	JP 20.10.21
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 DESIGNED G BIRT  
 DRG CHECK J SINGH  
 DESIGN CHECK S KEANE  
 APPROVED J PETERS

**VCN WORKS APPROVAL**  
 PAVEMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
 GENERAL NOTES & LEGEND  
 SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS: WORKS APPROVAL ISSUE		
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SCALE @ A1

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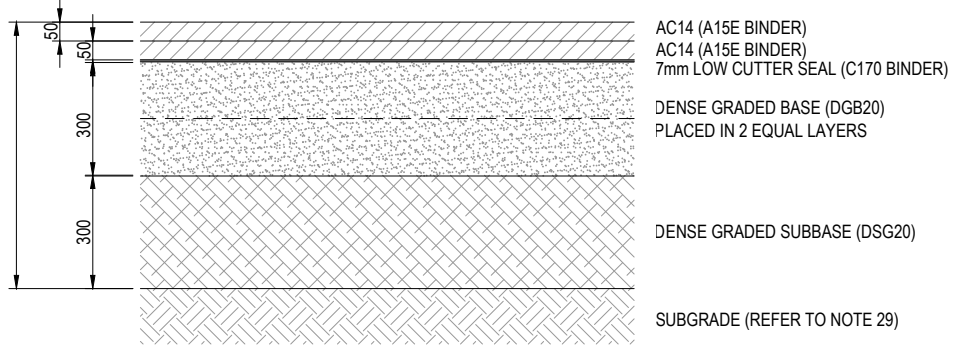
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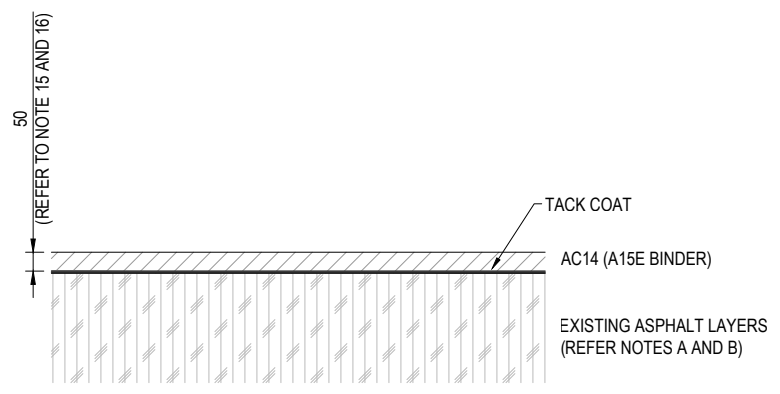
Plotted by: SINGU

DF 801\*554

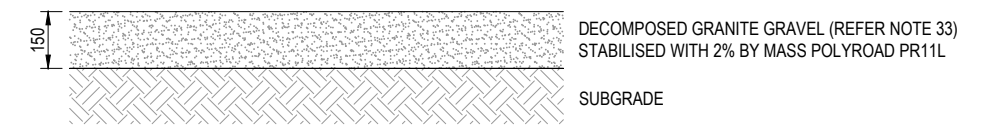
PAVEMENT LAYER TYPES AND THICKNESSES TO MATCH EXISTING ADJACENT PAVEMENT AS CONFIRMED ON SITE. COMPOSITION SHOWN IS INDICATIVE ONLY.



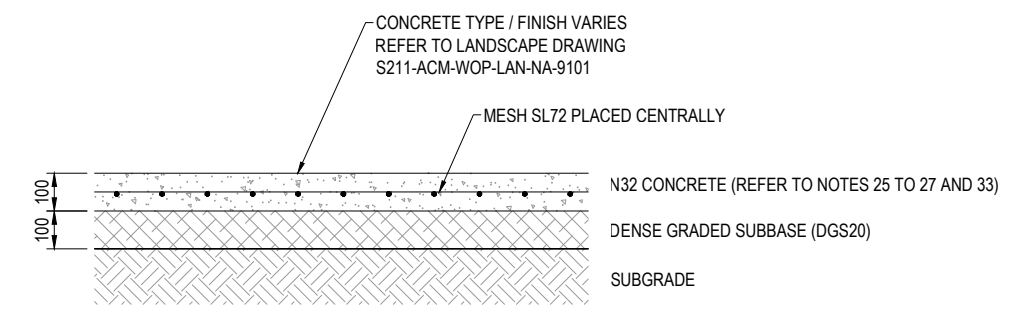
**PAVEMENT TYPE PT1A**  
VERNON CIRCLE PAVEMENT WIDENING OR RECONSTRUCTION



**PAVEMENT TYPE PT4**  
ASPHALT MILL AND RESHEET



**PAVEMENT TYPE - PTD**  
DECOMPOSED GRANITE



**PAVEMENT TYPE PT5**  
CONCRETE FOOTPATH AND RAISED CONCRETE MEDIAN

- NOTES:**
- A. REFER TO PAVEMENT NOTES ON DRAWING S211-ACM-WOP-CIV-PA-1001.
  - B. UNDERTAKE VISUAL ASSESSMENT AND REPAIRS (SUCH AS ASPHALT PATCHING AND CRACK SEALING) WHERE REQUIRED TO THE SATISFACTION OF PRINCIPAL'S AUTHORISED PERSON (PAP)
  - C. WHERE REQUIRED TO ACHIEVE DESIGN FINISHED SURFACE LEVEL, PROVIDE ASPHALT REGULATION WITH AC14 (C450 BINDER)

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AECOM Australia Pty Ltd  
A.B.N. 20 093 846 925

DRAWN: S NAIDU  
DESIGNED: G BIRT  
DRG CHECK: J SINGH  
DESIGN CHECK: S KEANE  
APPROVED: J PETERS

**VCN WORKS APPROVAL**  
PAVEMENT  
VERNON CIRCLE NORTH EARLY WORKS  
TYPICAL DETAILS  
SHEET 1

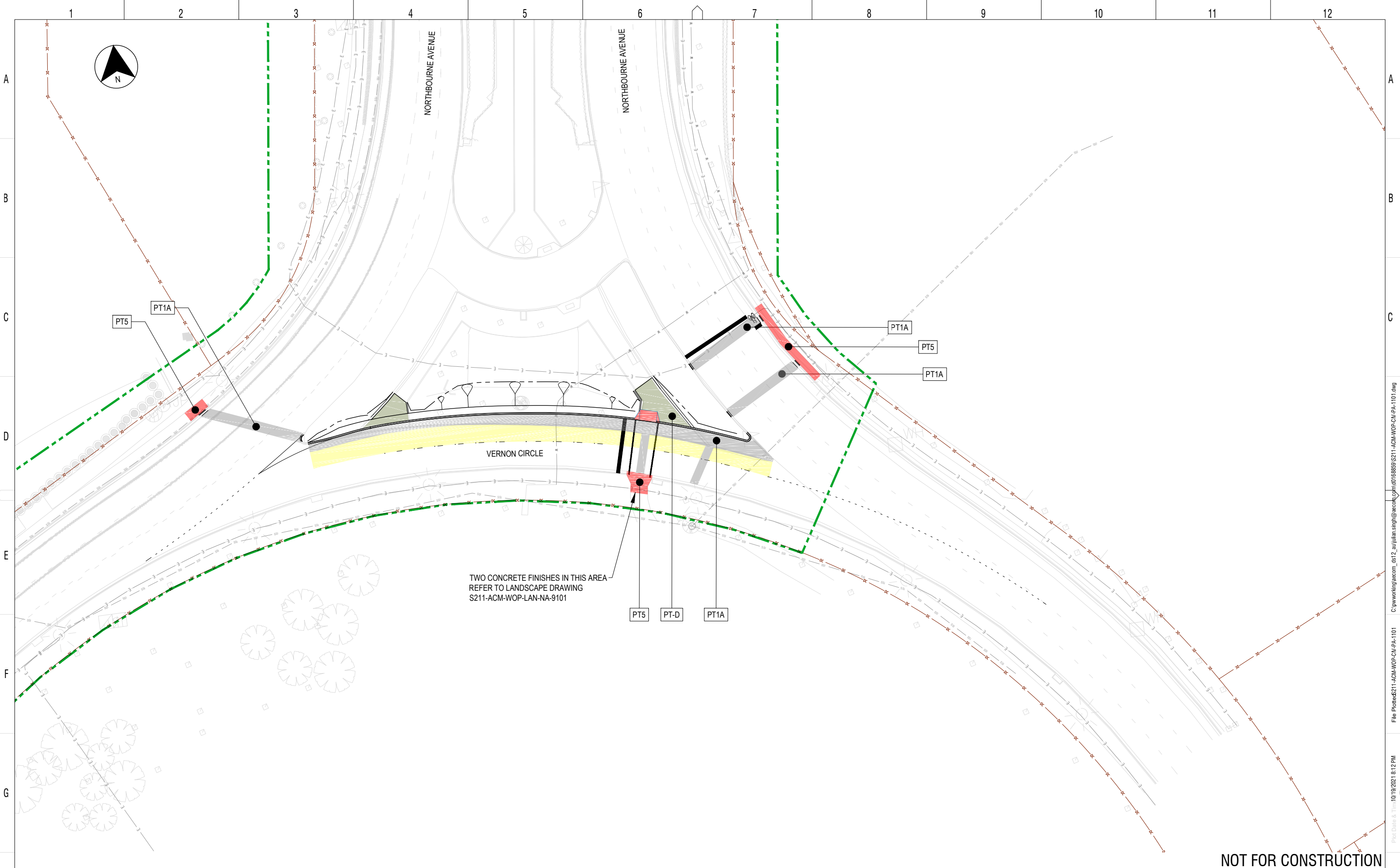
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STATUS: WORKS APPROVAL ISSUE    ©

DRG No. S211-ACM-WOP-CIV-PA-1010    EDMS No.    A

SCALE @ A1

**DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR**



TWO CONCRETE FINISHES IN THIS AREA  
REFER TO LANDSCAPE DRAWING  
S211-ACM-WOP-LAN-NA-9101

NOT FOR CONSTRUCTION

AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	GB 20.10.21	SK 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO HEIGHT DATUM: AHD SCALE: AS SHOWN



This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the North South Link quality assurance system to ISO 9001-2000.



DRAWN S NAIDU  
DESIGNED G BIRT  
DRG CHECK J SINGH  
DESIGN CHECK S KEANE  
APPROVED J PETERS

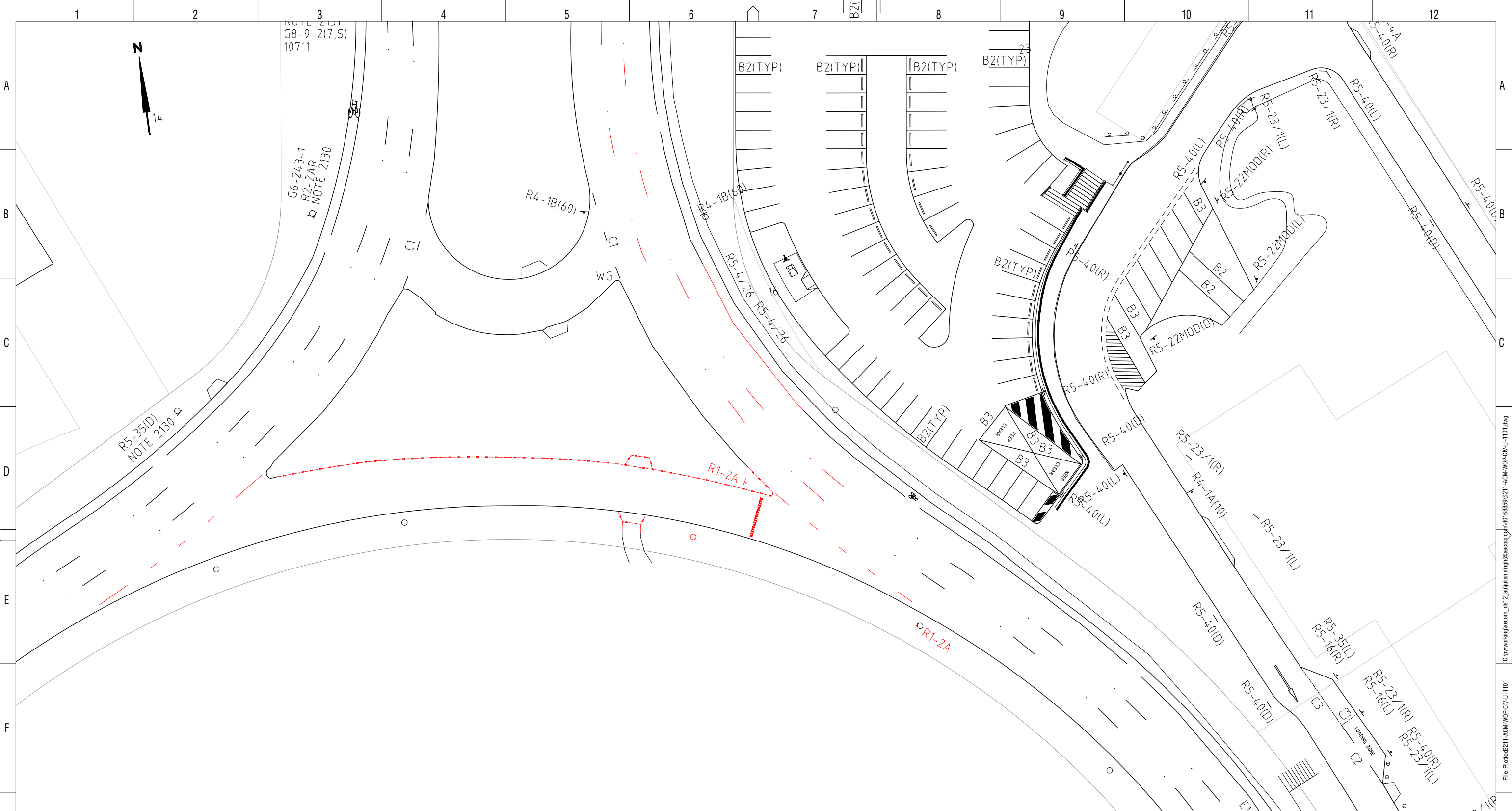
**VCN WORKS APPROVAL**  
PAVEMENT  
**VERNON CIRCLE NORTH EARLY WORKS**  
GENERAL NOTES & LEGEND  
SHEET 1

DESIGN LOT No:	S211-WORKS APPROVAL	SHEET:	01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE			
DRG No.	S211-ACM-WOP-CIV-PA-1101	EDMS No.		

SCALE 1:250  
SCALE @ A1

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 Plotted by: SINGU  
 DF 801\*554



NOTE 2131  
G8-9-2(7,S)  
10711

G6-243-1  
R2-2AR  
NOTE 2130

R5-35(D)  
NOTE 2130

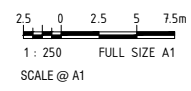
R1-2A

R1-2A

**NOTES:**  
1. FOR TRAFFIC CONTROL DEVICES NOTES AND LEGEND, REFER TO DRG No S211-ACM-WOP-CIV-LI-0015.

<b>WORK AS EXECUTED</b>	<b>DESIGN AGENT</b>	<b>OFFICE OF A.C.T.</b>
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	AECOM PTY LTD	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
AECOM PTY LTD	VERNON CIRCLE NORTH WORKS APPROVAL	DOCUMENT NUMBER
NAME	SCALE:	
SIGNATURE	1:250	
DATE:		

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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	VL 20.10.21	CW 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO    HEIGHT DATUM: AHD    SCALE: AS SHOWN



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DRAWN	A BRISCOE
DESIGNED	V LIM
DRG CHECK	J SINGH
DESIGN CHECK	A JIAO
APPROVED	J PETERS

**VCN WORKS APPROVAL**  
LINES & SIGNS  
VERNON CIRCLE NORTH EARLY WORKS  
DEMOLITION PLAN  
SHEET 1

DESIGN LOT No: S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS: WORKS APPROVAL ISSUE		©
DRG No: S211-ACM-WOP-CIV-LI-1101	EDMS No:	A

Printed by SNGU

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 Plot Date & Time: 01/19/2021 8:36 PM  
 DF 801\*554





14

NOTE 2131  
G8-9-2(7,S)  
10711

G6-243-1  
R2-2AR  
NOTE 2130

R4-1B(60)

ERECT  
R7-8-7n

ERECT  
R7-8-7n

R5-35(D)  
NOTE 2130

B2(TYP)

B2(TYP)

B2(TYP)

B2(TYP)

B2(TYP)

B2(TYP)

B3

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B3

B3

B3

B3

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

R5-40(L)

R5-22MOD(L)

R5-23/1L

R5-40(L)

R5-23/1R

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	AECOM PTY LTD	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
AECOM PTY LTD	VERNON CIRCLE NORTH WORKS APPROVAL	DOCUMENT NUMBER
NAME	SCALE:	
SIGNATURE	1:250	
DATE:		

NOTES:  
1. FOR TRAFFIC CONTROL DEVICES NOTES AND LEGEND, REFER TO DRG No S211-ACM-WOP-CIV-LI-0015.

NOT FOR CONSTRUCTION

ISSUED FOR WORKS APPROVAL	VL 20.10.21	CW 20.10.21	JP 20.10.21
AMD	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
CO-ORDINATE SYSTEM:	STROMLO	HEIGHT DATUM:	AHD
SCALE:	AS SHOWN		

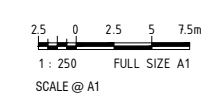


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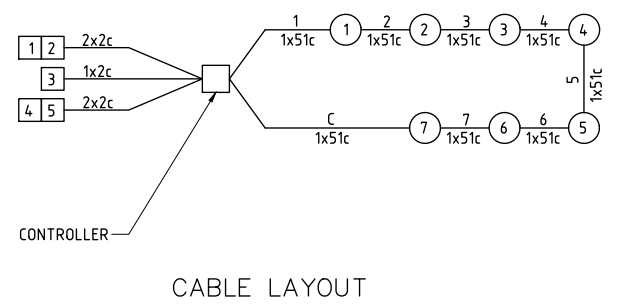
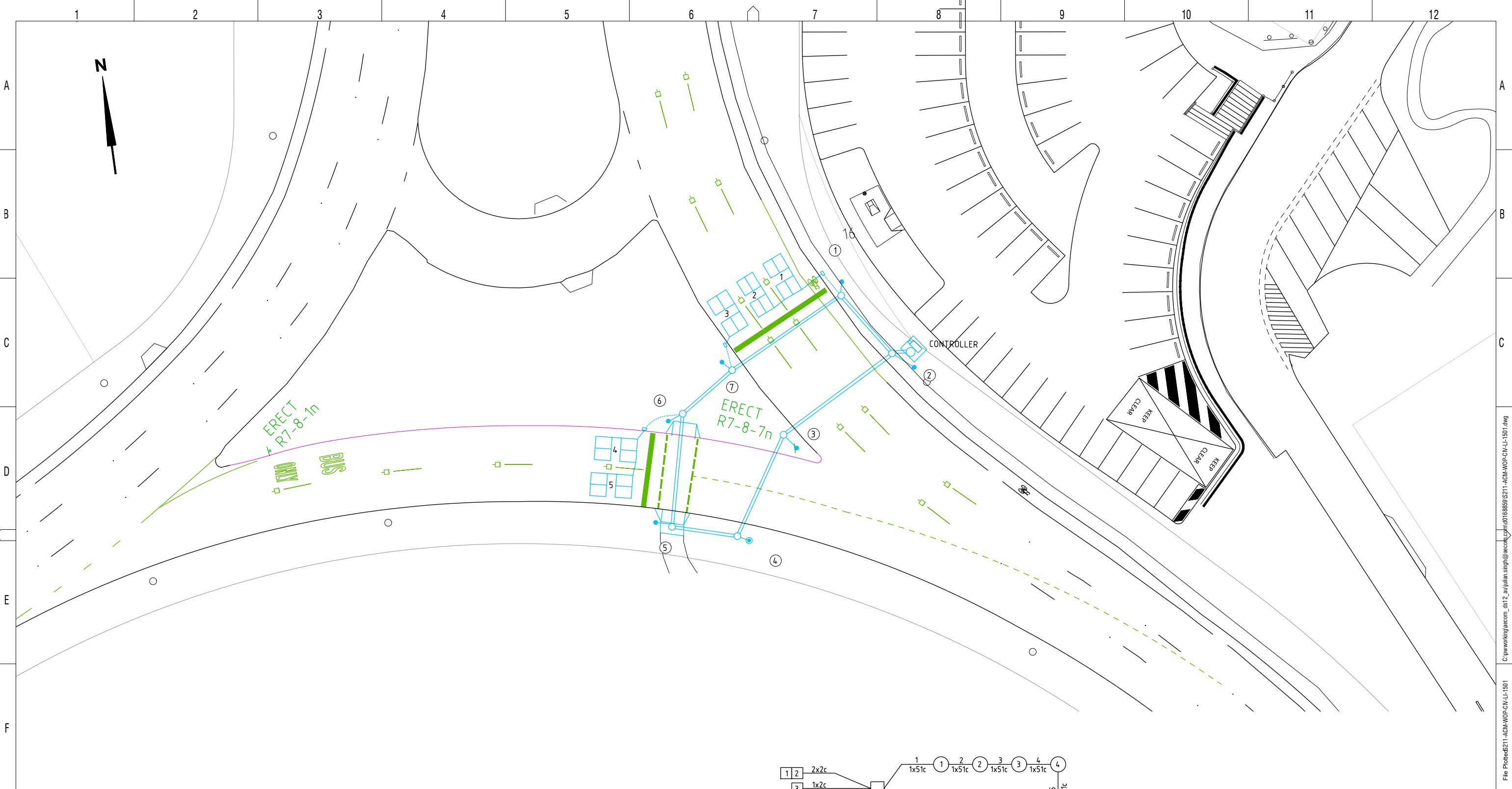
DRAWN: ABRISCOE  
DESIGNED: VLIM  
DRG CHECK: JSINGH  
DESIGN CHECK: AJIAO  
APPROVED: JPETERS

VCN WORKS APPROVAL		
LINES & SIGNS		
VERNON CIRCLE NORTH EARLY WORKS		
SIGNS AND LINE MARKING PLAN		
SHEET 1		
DESIGN LOT No:	S211-WORKS APPROVAL	SHEET: 01 OF 01
STATUS:	WORKS APPROVAL ISSUE	
DRG No:	S211-ACM-WOP-CIV-LI-1201	EDMS No.
		A



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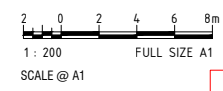
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 Plot Date & Time: 01/19/2021 8:37 PM  
 Plotted by: SNGU  
 DF 801\*554



**NOTES:**  
 1. FOR DETAILS OF LOOP DETECTOR INSTALLATION REFER TO STD DRG No S/803/1

<b>WORK AS EXECUTED</b>	<b>DESIGN AGENT</b>	<b>OFFICE OF A.C.T.</b>
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	AECOM PTY LTD	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
AECOM PTY LTD	VERNON CIRCLE NORTH WORKS APPROVAL	DOCUMENT NUMBER:
NAME:	SCALE:	
SIGNATURE:	1:250	
DATE:		

<b>WORK AS EXECUTED</b>	<b>DESIGN AGENT</b>	<b>OFFICE OF A.C.T.</b>
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	AECOM PTY LTD	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
AECOM PTY LTD	VERNON CIRCLE NORTH WORKS APPROVAL	DOCUMENT NUMBER:
NAME:	SCALE:	
SIGNATURE:	1:250	
DATE:		



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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	UT 20.10.21	CW 20.10.21	JP 20.10.21



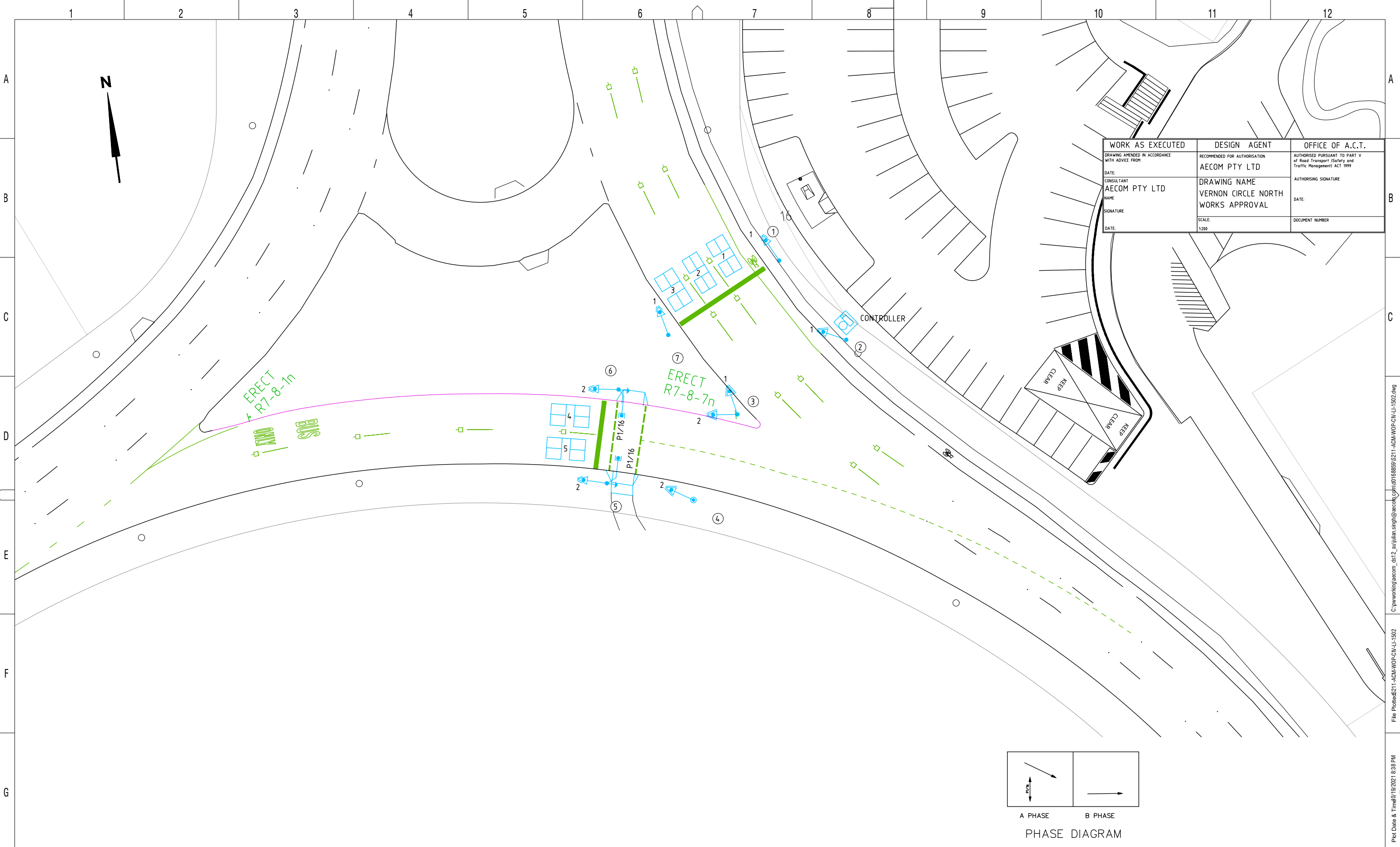
This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the North South Link quality assurance system to ISO 9001-2000.



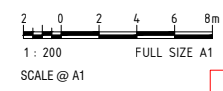
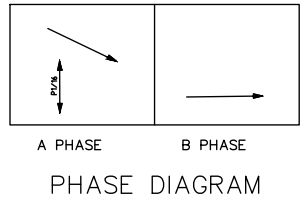
DRAWN	A BRISCOE
DESIGNED	U TIRANAGAMA
DRG CHECK	J SINGH
DESIGN CHECK	A JIAO
APPROVED	J PETERS

<b>VCN WORKS APPROVAL</b>			
LINES & SIGNS			
VERNON CIRCLE NORTH EARLY WORKS			
CABLE & LOOP LAYOUT			
SHEET 1			
DESIGN LOT No:	S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE		
DRG No.	S211-ACM-WOP-CIV-LI-1501	EDMS No.	

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 Plotted by: SINGU  
 DF 801\*554



WORK AS EXECUTED DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM DATE: CONSULTANT AECOM PTY LTD NAME SIGNATURE DATE:	DESIGN AGENT RECOMMENDED FOR AUTHORISATION AECOM PTY LTD DRAWING NAME VERNON CIRCLE NORTH WORKS APPROVAL SCALE: 1:200	OFFICE OF A.C.T. AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 AUTHORISING SIGNATURE DATE: DOCUMENT NUMBER
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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	UT 20.10.21	CW 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO    HEIGHT DATUM: AHD    SCALE: AS SHOWN



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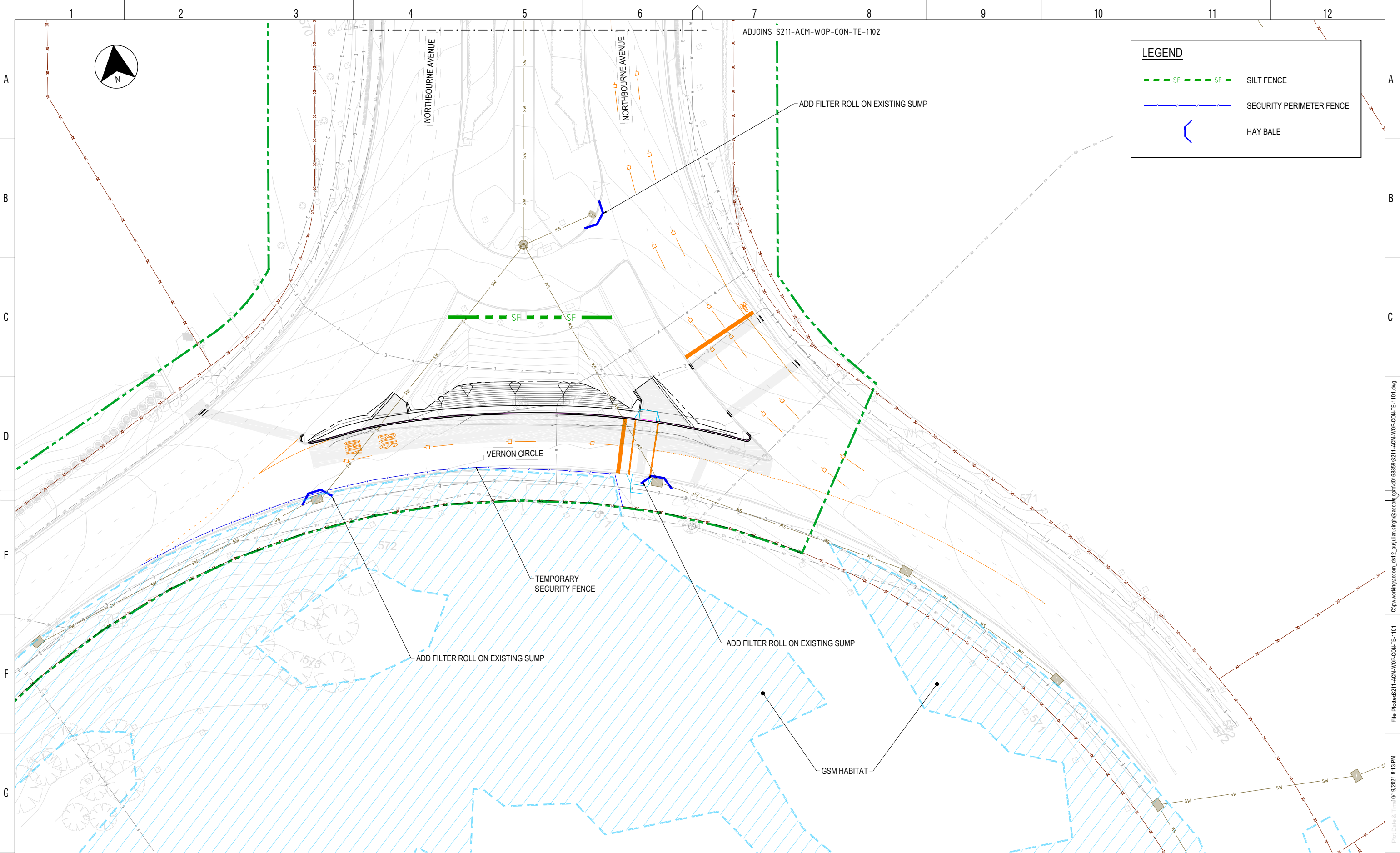
DRAWN	A BRISCOE
DESIGNED	U TIRANAGAMA
DRG CHECK	J SINGH
DESIGN CHECK	A JIAO
APPROVED	J PETERS

**NOT FOR CONSTRUCTION**

<b>VCN WORKS APPROVAL</b>			
LINES & SIGNS			
VERNON CIRCLE NORTH EARLY WORKS			
HARDWARE LAYOUT			
SHEET 1			
DESIGN LOT No:	S211-WORKS APPROVAL	SHEET: 01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE		
DRG No.	S211-ACM-WOP-CIV-LI-1502	EDMS No.	

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 Plotted by: SNGU  
 DF 801\*554

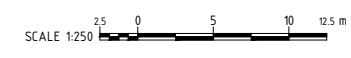




**LEGEND**

- - - SF - - - SF SILT FENCE
- - - - - SECURITY PERIMETER FENCE
- { HAY BALE

**NOT FOR CONSTRUCTION**



**DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR**

AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	LM 20.10.21	AL 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO    HEIGHT DATUM: AHD    SCALE: AS SHOWN



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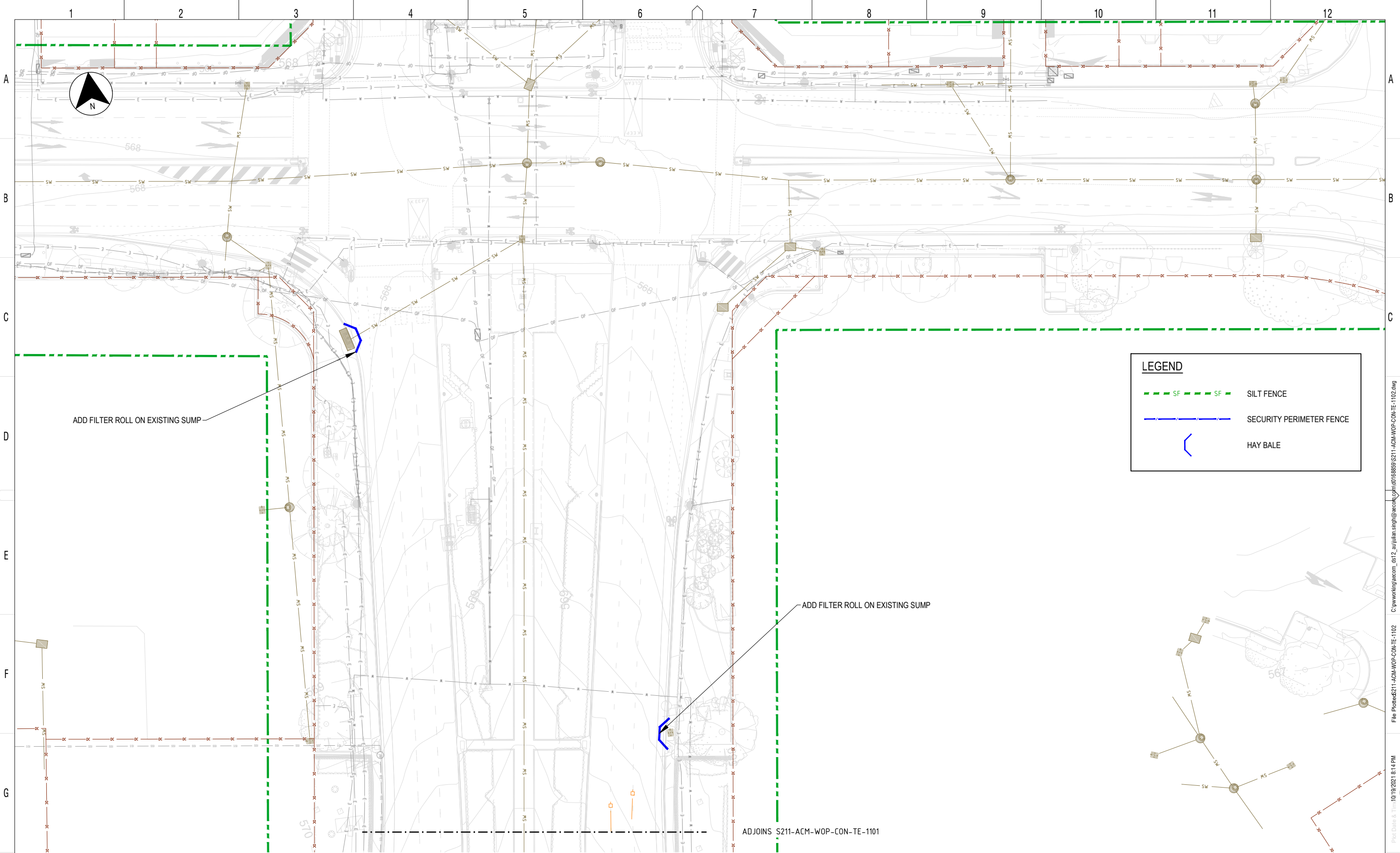
DRAWN	S NAIDU
DESIGNED	L MULYADI
DRG CHECK	J SINGH
DESIGN CHECK	C VAVOULAS
APPROVED	J PETERS

**VCN WORKS APPROVAL**  
 EROSION & SEDIMENT CONTROL  
 VERNON CIRCLE NORTH EARLY WORKS  
 GENERAL ARRANGEMENT  
 SHEET 1

DESIGN LOT No:	S211-WORKS APPROVAL	SHEET:	01 OF 01	A1
STATUS:	WORKS APPROVAL ISSUE			
DRG No.	S211-ACM-WOP-CON-TE-1101	EDMS No.		

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 Plot Date & Time: 10/19/2021 8:13 PM  
 Plotted by: SINGU





**LEGEND**

- SF --- SF SILT FENCE
- SECURITY PERIMETER FENCE
- < HAY BALE

ADD FILTER ROLL ON EXISTING SUMP

ADD FILTER ROLL ON EXISTING SUMP

ADJOINS S211-ACM-WOP-CON-TE-1101

**NOT FOR CONSTRUCTION**

SCALE 1:250  
 SCALE @ A1

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AMD	DESCRIPTION	DESIGNER SIGN./DATE	VERIFIED SIGN./DATE	APPROVED SIGN./DATE
A	ISSUED FOR WORKS APPROVAL	LM 20.10.21	AL 20.10.21	JP 20.10.21

CO-ORDINATE SYSTEM: STROMLO    HEIGHT DATUM: AHD    SCALE: AS SHOWN



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DRAWN S NAIDU  
 DESIGNED L MULYADI  
 DRG CHECK J SINGH  
 DESIGN CHECK C VAVOULAS  
 APPROVED J PETERS

**VCN WORKS APPROVAL**  
 EROSION & SEDIMENT CONTROL  
 GENERAL ARRANGEMENT  
 SHEET 2

DESIGN LOT No: S211-WORKS APPROVAL    SHEET: 02 OF 02    A1  
 STATUS: WORKS APPROVAL ISSUE  
 DRG No. S211-ACM-WOP-CON-TE-1102    EDMS No.    A

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 Plotted by: SINGU  
 DF 801\*554