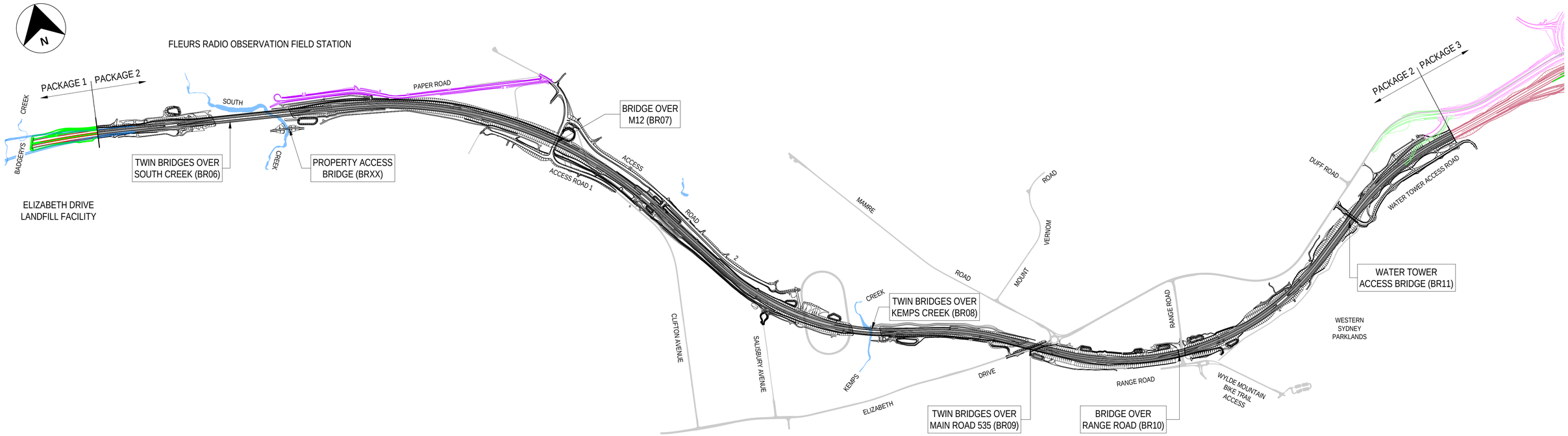
M12 MOTORWAY

PACKAGE 2 - CENTRAL

MAIN ALIGNMENT

LANDSCAPE WORKS

ISSUED FOR TENDER



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PREPARED FOR:
SYDNEY PROJECT DELIVERY
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DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
COVER SHEET

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 1 | A1
STATUS: ISSUED FOR TENDER ©
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M12 MOTORWAY PACKAGE 2 - CENTRAL
LANDSCAPE WORKS
DRAWING INDEX

GENERAL

M12CDD-GHDA-ALL-LA-DRG-609001 COVER SHEET
M12CDD-GHDA-ALL-LA-DRG-609002 DRAWING INDEX
M12CDD-GHDA-ALL-LA-DRG-609006 GENERAL LEGEND
M12CDD-GHDA-ALL-LA-DRG-609007 LANDSCAPING GENERAL NOTES
M12CDD-GHDA-ALL-LA-DRG-609008 PLANTING SCHEDULE - SHEET 1 OF 5
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M12CDD-GHDA-ALL-LA-DRG-609010 PLANTING SCHEDULE - SHEET 3 OF 5
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LANDSCAPING TYPICAL SECTIONS AND DETAILS

M12CDD-GHDA-ALL-LA-DRG-609051 TYPICAL ROAD CROSS SECTION - SHEET 1 OF 3
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M12CDD-GHDA-ALL-LA-DRG-609053 TYPICAL ROAD CROSS SECTION - SHEET 3 OF 3
M12CDD-GHDA-ALL-LA-DRG-609054 INTERFACE DETAILS - SHEET 1 OF 10
M12CDD-GHDA-ALL-LA-DRG-609058 INTERFACE DETAILS - SHEET 2 OF 10
M12CDD-GHDA-ALL-LA-DRG-609059 INTERFACE DETAILS - SHEET 3 OF 10
M12CDD-GHDA-ALL-LA-DRG-609060 INTERFACE DETAILS - SHEET 4 OF 10
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M12CDD-GHDA-ALL-LA-DRG-609062 INTERFACE DETAILS - SHEET 6 OF 10
M12CDD-GHDA-ALL-LA-DRG-609063 INTERFACE DETAILS - SHEET 7 OF 10
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LANDSCAPE NODE DETAIL PLAN

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M12CDD-GHDA-ML2-LA-DRG-609171 LANDSCAPE NODE DETAIL SECTION - SHEET 1 OF 2
M12CDD-GHDA-ML2-LA-DRG-609172 LANDSCAPE NODE DETAIL SECTION - SHEET 2 OF 2
M12CDD-GHDA-ML2-LA-DRG-609181 TYPICAL NODE HARDWORK DETAILS - SHEET 1 OF 3
M12CDD-GHDA-ML2-LA-DRG-609182 TYPICAL NODE HARDWORK DETAILS - SHEET 2 OF 3
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CLIFTON AVENUE - GENERAL ARRANGEMENT PLAN

M12CDD-GHDA-CLA-LA-DRG-614701 GENERAL ARRANGEMENT PLAN - SHEET 1 OF 5
M12CDD-GHDA-CLA-LA-DRG-614702 GENERAL ARRANGEMENT PLAN - SHEET 2 OF 5
M12CDD-GHDA-CLA-LA-DRG-614703 GENERAL ARRANGEMENT PLAN - SHEET 3 OF 5
M12CDD-GHDA-CLA-LA-DRG-614704 GENERAL ARRANGEMENT PLAN - SHEET 4 OF 5
M12CDD-GHDA-CLA-LA-DRG-614705 GENERAL ARRANGEMENT PLAN - SHEET 5 OF 5

WATER TOWER ACCESS ROAD - GENERAL ARRANGEMENT PLAN

M12CDD-GHDA-UAR-LA-DRG-617601 GENERAL ARRANGEMENT PLAN - SHEET 1 OF 2
M12CDD-GHDA-UAR-LA-DRG-617602 GENERAL ARRANGEMENT PLAN - SHEET 2 OF 2

SYDNEY UNI ACCESS - GENERAL ARRANGEMENT PLAN

M12CDD-GHDA-SDU-LA-DRG-618401 GENERAL ARRANGEMENT PLAN - SHEET 1 OF 1

SALISBURY AVENUE - GENERAL ARRANGEMENT PLAN

M12CDD-GHDA-SBA-LA-DRG-618751 GENERAL ARRANGEMENT PLAN - SHEET 1 OF 1

ELIZABETH DRIVE - GENERAL ARRANGEMENT PLAN

M12CDD-GHDA-EDR-LA-DRG-619301 GENERAL ARRANGEMENT PLAN - SHEET 1 OF 1

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PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
DRAWING INDEX

FILE No. DS2020/000672 PART 5 SHEET: 1 OF 1 A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-ALL-LA-DRG-609002 REV F VER 0 EDMS No. AMD No.

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PLOT DATE & TIME: 9/16/2021 11:50:31 AM

GENERAL LEGEND

- 19000 - CHAINAGES
- MCXX — DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- MOTORWAY ALIGNMENT
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- RETAINING WALL
- NEW DRAINAGE CULVERT WITH HEADWALLS
- FLOOD ZONE
- PAPER ROAD ALIGNMENT (BY OTHERS)
- CONCRETE SCOUR PROTECTION
- ROCK (RIP RAP) SCOUR PROTECTION
- CAUSEWAY
- CHECK DAM
- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY- BLACK COATED
- FAUNA FENCE - WSPT

URBAN DESIGN ELEMENTS

FURNITURE

- LEAF CANOPIES (REFER TO WSP DWG M12WDD-WSP-ALL-MS-DRG 600000 TO 602500)

SIGNAGE

- LARGE SIGNAGE (SG:1)
- INTERMEDIATE SIGNAGE (SG:2)
- SMALL SIGNAGE (SG:3)
- ABORIGINAL INTERPRETATION SIGNAGE (SG:4)
- NON-ABORIGINAL HERITAGE INTERPRETATION SIGNAGE (SG:5)

HARDSCAPE

- HW:01 - GABION WALL WITH CONCRETE SLAB TOPPING
- PV:01 - STABILISED DECOMPOSED GRANITE
- PV:02 - PORPHYRY CRAZY PAVE
- PV:03 - STONE SETT DRAINAGE CHANNEL

LANDSCAPE DESIGN ELEMENTS

PLANTINGS

- P1a - PASTURE GRASS
- P2a - RIPARIAN PLANTING TYPE 1 - BASINS
- P2b - RIPARIAN PLANTING TYPE 2 - SWALES
- P2c - RIPARIAN PLANTING TYPE 3 - WETLANDS
- P3a i - (MEDIAN AREA) CUMBERLAND SHALE PLAINS WOODLAND - MEDIAN PLANTING
- P3a ii - (FILL BATTER AREA) CUMBERLAND SHALE PLAINS WOODLAND - FILL BATTERS - HYDROSEED + STRAW MULCH
- P3a iii - (CUT BATTER AREA) CUMBERLAND SHALE PLAINS WOODLAND - CUT BATTERS - COMPOST BLANKET
- P3a iv - (FLAT AREA) CUMBERLAND SHALE PLAINS WOODLAND - FLAT AREA (HYDROSEED)
- P3b i - (MEDIAN AREA) SHALE GRAVEL TRANSITION FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - MEDIAN PLANTING
- P3b ii - (FILL BATTER AREA) SHALE GRAVEL TRANSITION FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - HYDROSEED + STRAW MULCH
- P3b iii - (CUT BATTER AREA) SHALE GRAVEL FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - COMPOST BLANKET
- P3b iv - (FLAT AREA) SHALE GRAVEL TRANSITION FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - FLAT AREAS - HYDROSEED
- P3c - SHALE GRAVEL TRANSITION FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - FLAT AREAS - HYDROSEED
- P3d - SHALE GRAVEL TRANSITION FOREST - LOW SHRUBS, NATIVE HERBS AND GRASSES - FLAT AREAS - HYDROSEED
- P4a - (TREE PLANTING) CUMBERLAND SHALE PLAINS WOODLAND - HIGHER TREE DENSITY WITH LARGE SHRUBS AND UNDERSTOREY
- P4b - (TREE PLANTING) SHALE GRAVEL TRANSITION FOREST - HIGHER TREE DENSITY WITH LARGE SHRUBS
- P4c - (TREE PLANTING) SWAMP OAK FOREST -TREES, GROUNDCOVERS AND LOW SHRUBS
- P4d - (TREE PLANTING) RIVER FLAT FOREST - TREES, GROUNDCOVERS AND LOW SHRUBS
- P5a i - (TREE PLANTING) TIME OF BURRUGIN - FROSTY AND FLOWERING
- P5a ii - REST NODE CENTRE PLANTING
- P5b i - (TREE PLANTING) TIME OF WIRITJIRIBIN - COLD AND WINDY
- P5b ii - REST NODE CENTRE PLANTING
- P5c i - (TREE PLANTING) TIME OF PARRA'DOWEE - EEL
- P5c ii - REST NODE CENTRE PLANTING
- BLADY GRASS - TREATMENT ALONG BOTH SIDES OF THE SUP WHERE THERE IS A SUP FENCE

TREES

- EUC eug (*Eucalyptus eugenioides*)
- EUC sub (*Eucalyptus subvelutina*)
- FIC rub (*Ficus rubiginosa*)

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M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
GENERAL LEGEND

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 1 | A1
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LANDSCAPE AND REVEGETATION PROCEDURES

THESE LANDSCAPE PROCEDURES ARE A SUMMARY ONLY AND SHOULD BE READ IN CONJUNCTION WITH TfNSW QA SPECIFICATION R178 'VEGETATION' AND R179 'LANDSCAPE PLANTING'.

GENERAL LANDSCAPE AND REVEGETATION NOTES

1. EXTENT OF LANDSCAPE AND REVEGETATION TREATMENTS ARE SUBJECT TO FINAL ENGINEERING ALIGNMENT, DRAINAGE, EARTHWORKS AND DISTURBANCE.
2. A SUITABLY QUALIFIED AND EXPERIENCED ARBORIST (QAF LEVEL 5 WITH 5 YEARS MINIMUM EXPERIENCE) SHALL BE ENGAGED BY YOU TO CARRY OUT THE ASSESSMENT OF THE EXISTING TREES TO BE RETAINED IN ACCORDANCE WITH SPECIFICATION OF TREE PROTECTION MEASURES AND MONITORING OF THE RETAINED TREES DURING THE CONSTRUCTION PERIOD, AND IN ACCORDANCE WITH AS 4970_2009 PROTECTION OF TREES ON DEVELOPMENT SITES.
3. ALL VEGETATION OUTSIDE OF THE PROJECT CONSTRUCTION CLEARING AREA AND IDENTIFIED IN SPECIFICATION AND DRAWINGS IS TO BE PROTECTED AND RETAINED IN ACCORDANCE WITH CLAUSE 3.3 OF TfNSW QA SPECIFICATION R179 'LANDSCAPE PLANTING'.
4. A 10.5M CLEARZONE' IS REQUIRED EXCEPT BEHIND SAFTEY FENCE WHERE ' A 2.4m SETBACK FOR WIRE-ROPE SAFETY BARRIERS, A 1.65M SETBACK FOR STEEL RAIL BARRIERS AND 0 SETBACK FOR TYPE F BARRIERS IS REQUIRED.'
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE AN IDENTIFICATION SURVEY OF ANY UNDERGROUND SERVICES UNDER AND WITHIN THE VICINITY OF CONSTRUCTION WORK.
6. ALL TREE PLANTING SHALL BE KEPT CLEAR OF OVERHEAD WIRES AND ALL OTHER PUBLIC UTILITIES. FOR OVERHEAD POWERLINES A 15M CLEARANCE ON BOTH SIDES IS REQUIRED
7. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF SERVICE EASEMENTS SO AS TO CORRECTLY SETOUT AND APPLY THE SPECIFIC TREATMENTS AND PLANT SPECIES FOR THESE AREAS.
8. THE CONTRACTOR MUST ENSURE THAT LANDSCAPE TREATMENTS ALLOW ACCESS TO FINAL LOCATIONS OF ALL SERVICES INCLUDING MANHOLES, VALVES, FIRE HYDRANTS, SWITCHBOARDS, FIELD CABINETS AND ALL OTHER RELEVANT SERVICES.
9. AREAS AFFECTED BY THE INSTALLATION OF FENCES/BARRIERS, OR DISTURBED AREAS WHICH ARE BEYOND THE LANDSCAPE TREATMENTS SHOWN ON THE LANDSCAPE PLANS SHALL BE TREATED BY THE ADJOINING LANDSCAPE AND REVEGETATION TREATMENT, NOT WITHSTANDING CLEARANCE AND SETBACK REQUIREMENTS AS DETAILED.
10. PRIORITISE THE USE OF SITE TOPSOIL THAT HAS BEEN IDENTIFIED AS SUITABLE FOR USE FOR LANDSCAPE AND REVEGETATION WORKS. CARRY OUT TEST OF THE SITE TOPSOIL USING NATA ACCREDITED TESTING LABORATORY TO CONFIRM ITS SUITABILITY.
11. WHERE IMPORTED TOPSOIL IS REQUIRED, IT SHALL COMPLY WITH THE REQUIREMENTS SET OUT IN AS4419 AND THE REQUIREMENTS SET OUT UNDER CLAUSE 2.1.3 OF TfNSW QA SPECIFICATION R178 'IMPORTED TOPSOIL'.
12. MEDIANS AND SPLITTER ISLANDS NARROWER THAN 4M WIDE WILL BE CAPPED. CAPPING MATERIAL WILL BE CONSISTENT WITH THE TREATMENTS USED FOR MEDIANS AND SPLITTER ISLANDS THROUGHOUT THE PROJECT.
13. LOCATION OF EXISTING TREES AND CANOPY SPREAD HAS BEEN OBTAINED FROM THE DIGITAL SURVEY AND AERIAL PHOTOGRAPH OF THE SITE.

SITE PREPARATION

1. HERBICIDE APPLICATION FOR TREATMENT OF WEEDS WITHIN 10M OF WATERWAYS WILL BE CARRIED OUT WITH LOW TOXICITY HERBICIDES THAT WILL HAVE A LOW IMPACT ON THE ENVIRONMENT. SELECTED HERBICIDE FOR THESE AREAS SHALL COMPLY WITH THE REQUIREMENTS OF G36 ENVIRONMENTAL PROTECTION AND WILL BE APPROVED BY THE PRINCIPAL PRIOR TO ITS APPLICATION.

PLANTING PROCEDURES

1. PLANTING LAYOUTS AND DETAILS SHALL BE ACCORDING TO THE LANDSCAPE PLANS.
2. PREPARE PLANTING HOLES IN ACCORDANCE WITH THE PLANTING HOLE DIMENSIONS SET OUT IN CLAUSE 3.6.1 OF TfNSW QA SPECIFICATION R179 'LANDSCAPE PLANTING'.
3. AT THE BOTTOM OF EACH PLANTING HOLE, INCORPORATE A SOIL CONDITIONER AND FERTILISER AND MIX WITH THE TOPSOIL. REFER TO CLAUSE 2.5 OF TfNSW QA SPECIFICATION R179 'LANDSCAPE PLANTING' FOR SOIL CONDITIONER REQUIREMENTS AND TO TABLE 1 FOR FERTILISERS.
4. PLANT TREES AND SHRUBS SHOWN ON THE DRAWINGS AND BACKFILL THE PLANTING HOLE WITH COMPLIANT TOPSOIL.
5. UNIFORMLY LIGHTLY COMPACT THE BACKFILLING AROUND EACH PLANT AND FINISH FLUSH WITH THE NATURAL SURFACE LEVEL.
6. WATER EACH PLANT IMMEDIATELY AFTER THE PLANTING OPERATION IS COMPLETE, THEREAFTER AT THE REGULAR INTERVALS AND THE QUANTITY OF WATER SET OUT UNDER CLAUSE 3.6.4 OF TfNSW QA SPECIFICATION R179 'LANDSCAPE PLANTING'.
7. FOR MASS PLANTING AREAS SPREAD WOODCHIP MULCH TO A DEPTH OF 100MM ENSURING THE MULCH IS KEPT CLEAR OF THE PLANT STEM. FOR INDIVIDUAL PLANTING PLACE WOODCHIP MULCH AROUND THE BASE OF THE PLANT AS DETAILED.
8. FOR MASS PLANTING AREAS, PLANTS TO BE SET OUT IN A STAGGERED ARRANGEMENT.
9. STAKING AND TYING OF CONTAINER STOCK SHALL BE IN ACCORDANCE WITH CLAUSE 2.4 OF TfNSW SPECIFICATION QA R179 'LANDSCAPE PLANTING'.
10. INSTALL ENVIRONMENTAL MATTING, JUTE MESH OR SIMILAR APPROVED, TO FULL EXTENT OF PLANTING SWALES, CREEK RESTORATION WORKS AFFECTED BY CREEK FLOWS AND BATTERS OF WATER QUALITY BASINS. MATTING SHALL BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
11. HYDROMULCH TREATMENTS TO BATTERS MUST (TYPICAL) EXTEND 3m BEYOND TOP OF CUT AND BEYOND TOE OF FILL BATTERS, OR TO THE EXTENT OF EXISTING STABLE VEGETATION. TREATMENTS MUST NOT EXTEND BEYOND ROAD PROPERTY BOUNDARIES UNLESS DISTURBANCE HAS OCCURRED WHICH WILL REQUIRE REINSTATEMENT WITH ADJACENT LANDSCAPE TREATMENT.
12. HYDROMULCH SHALL COMPRISE THE RELEVANT MATERIALS AND RATES LISTED IN TABLE R178.1 UNDER CLAUSE 3.3.2 OF TfNSW QA SPECIFICATION R178 ' VEGETATION'. CELLULOSE FIBRE MULCH WILL BE SUGARCANE MULCH MIXED WITH 20% (BY WEIGHT) OF SHREDDED PAPER AT THE RATE SPECIFIED IN TABLE R178.1.

FERTILISER SCHEDULE

FERTILISER	LOCATION	N : P : K RATIO	APPLICATION RATE
SIERRABLEN® FLORA CONTROLLED RELEASE FERTILISER OR TfNSW APPROVED EQUIVALENT	MASS PLANTING AREAS	21-1.8-9-TE	5-8kg/100m2
AGRIFORM® PLANTING TABLETS 10 gr OR TfNSW APPROVED EQUIVALENT	INDIVIDUAL PLANTING	20-4.3-4.1-TE	2 PER TREE 1 PER SHRUB 1 PER GROUNDCOVER
PELLETISED POULTRY MANURE OR TfNSW APPROVED EQUIVALENT	HYDROMULCH AREAS	-	250kg/ha

MAINTENANCE

1. MAINTENANCE OF ALL LANDSCAPED AND REVEGETATED WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CLAUSE 8 OF TfNSW QA SPECIFICATION R178 'VEGETATION' AND CLAUSE 4 OF TfNSW QA SPECIFICATION R179 'LANDSCAPE PLANTING'.

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B	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021
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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: NTS

CLIENT: NSW GOVERNMENT Transport for NSW

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DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
LANDSCAPING GENERAL
NOTES

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 1 | A1
STATUS: ISSUED FOR TENDER ⓒ
DRG No. M12CDD-GHDA-ALL-LA-DRG-609007 | REV E | VER 0 | EDMS No. | AMD No.

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PLOT DATE & TIME: 9/16/2021 11:50:55 AM

PLANTING SCHEDULE

P1a	*Pasture Grass*					Total m²: 16,784
	Couch					

P2a	*Riparian Planting - Type 1*					Total m²: 25,494

Performance Requirements:
- Must tolerate periodic inundation
- Must provide channel and bank stabilisation

Optimal Planting Time:
- Following completion of earthworks
- Prior to commencement of periods of heavy rainfall

Code	Botanical name	Common Name	Container size	Density /m²	Percentage	Quantity (no.)
BAU art	*Baumea articulata*	Jointed twig rush	Forestry tube	2.00	16%	8,158
JUN usi	*Juncus usitatus*	Common Rush	Forestry tube	2.00	14%	7,138
LOM lon	*Lomandra longifolia*	Basket grass	Forestry tube	1.00	14%	3,569
CAR app	*Carex appressa*	Tall sedge	Forestry tube	1.00	7%	1,785
DIA cae	*Dianella caerulea*	Blue flax lily	Forestry tube	2.00	14%	7,138
IMP cyl	*Imperata cylindrica*	Cogon grass	Forestry tube	1.00	7%	1,785
LOM hys	*Lomandra hystrix*	Green mat rush	Forestry tube	1.00	14%	3,569
FIC nod	*Ficinea nodosa*	Club rush	Forestry tube	2.00	14%	7,138

P2c	*Riparian planting - Type 3 - Wetlands*					Total m²: 4,149

Performance Requirements:
-Must tolerate periodic inundation
-Must provide channel and bank stabilisation

Optimal Planting Time:
- Following completion of earthworks
- Prior to commencement of periods of heavy rainfall

Code	Botanical name	Common Name	Container size	Density /m²	Percentage	Quantity (no.)
Deep Wetland						
BAU art	*Baumea articulata*	Jointed twig rush	Forestry tube	9.00	16%	
ELO sph	*Eleocharis sphacelata*	Tall Spikerush	Forestry tube	9.00	16%	
SCH val	*Schoeneplectus validus*	River Club Rush	Forestry tube	9.00	18%	
Shallow Wetland						
Bau rub	*Baumea rubiginosa*	Blue flax lily	Forestry tube	9.00	16%	5,975
BOL flu	*Bolboschoenus fluviatilis*	River Bulrush	Forestry tube	9.00	16%	5,975
ELE acu	*Eleocharis acuta*	Spikerush	Forestry tube	9.00	18%	6,721

5,975
5,975
6,721

SEEDING SCHEDULE

P2b	*Riparian Seeding - Type 2*			Total m²: 77,321

Performance Requirements:
-Must tolerate periodic inundation
-Must provide channel and bank stabilisation

Optimal Planting Time:
- Following completion of earthworks
- Prior to commencement of periods of heavy rainfall

Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
BAU art	*Baumea articulata*	Jointed twig rush	1.25	
CAR app	*Carex appressa*	Blue flax lily	1.75	
FIC nod	*Ficinea nodosa*	Club rush	1.75	
JUN usi	*Juncus usitatus*	Common rush	1.25	
LEP lat	*Lepidosperma laterale*	Variable swordsedge	1.25	13,531
LOM lon	*Lomandra longifolia*	Basket grass	1.25	13,531
Total weight				9,665

65,723

P3a (i)	*Cumberland Shale Plains Woodland - Median Planting*					Total m²: 25,734

9,665
9,665
9,665

Performance Requirements:
-No in-frangible plant species
-Mature height must not obscure sight lines
-Plant species should be suitable for median planting conditions

Optimal Planting Time:
- Following completion of road construction.
- Prior to commencement of road operation
- Time of year suitable for nominated plant species.

Code	Botanical name	Common Name	Container size	Density /m²	Percentage	Quantity (no.)
ARI ram	*Aristida ramosa*	Purple wiregrass	Tubestock	3.00	15%	
ART mill	*Arthropodium milleflorum*	Vanilla lily	Tubestock	3.00	10%	
DIA lon	*Dianella longifolia*	Spreading flax lily	Tubestock	2.00	25%	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	Tubestock	2.00	10%	11,580
THE tri	*Themeda triandra*	Kangaroo grass	Tubestock	4.00	25%	7,720
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	Tubestock	3.00	15%	12,867

5,147
25,734
11,580

P3a (ii)	*Cumberland Shale Plains Woodland - Fill Batters - Hydroseed + Straw mulch*			Total m²: 73,821

Performance Requirements:
-No in-frangible plant species
- Plant selection should include a cross section of pioneer species, grasses, herbs and groundcovers
-Mature height must not obscure sight lines

Optimal Planting Time:
- Following completion of batter construction to provide batter stabilisation.
- Time of year suitable for nominated plant species.

Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	147,642 to 184,553
Grasses and groundcovers				
ARI ram	*Aristida ramosa*	Purple wiregrass	1.75	
ART mil	*Arthropodium milleflorum*	Vanilla lily	1.25	
DIA lon	*Dianella longifolia*	Spreading flax lily	1.25	12,919
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	1.25	
THE aus	*Themeda australis*	Kangaroo grass	1.75	
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.25	
Total weight				12,919 62,748

9,228
9,228
9,228
9,228

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APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
PLANTING SCHEDULE

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 5 | A1
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SEEDING SCHEDULE

P3a(iii)	*Cumberland Shale Plains Woodland - Cut Batters - Compost Blanket*			Total m²: 31,711
Performance Requirements: -No in-frangible plant species - Plant selection should include a cross section of pioneer species, grasses, herbs and groundcovers -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	63,422 to 79,278
Grasses and groundcovers				
ARI ram	*Aristida ramosa*	Purple wiregrass	1.75	
ART mil	*Arthropodium milleflorum*	Vanilla lily	1.25	
DIA lon	*Dianella longifolia*	Spreading flax lily	1.25	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	1.25	
THE aus	*Themeda australis*	Kangaroo grass	1.75	
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.25	
Total weight				5,549 3,964 3,964 3,964 5,549 3,964 26,954

P3a (iv)	*Cumberland Shale Plains Woodland - Flat area (Hydroseed)*			Total m²: 132,054
Performance Requirements: -No in-frangible plant species - Plant selection should include a cross section of pioneer species, grasses, herbs and groundcovers -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	264,108 to 330,135
Grasses and groundcovers				
ARI ram	*Aristida ramosa*	Purple wiregrass	1.75	
ART mil	*Arthropodium milleflorum*	Vanilla lily	1.25	
DIA lon	*Dianella longifolia*	Spreading flax lily	1.25	23,109
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	1.25	16,507
THE aus	*Themeda australis*	Kangaroo grass	1.75	16,507
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.25	16,507
Total weight				23,109 16,507 112,246

SEEDING SCHEDULE

P3b (i)	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - median planting*					Total m²: 25,527
Performance Requirements: -No in-frangible plant species - Plant selection should include a cross section of pioneer species, grasses, herbs and groundcovers -Mature height must not obscure sight lines						
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.						
Code	Botanical name	Common Name	Size required	Density/m²	Percentage	Quantity (no.)
DIA lon	*Dianella longifolia*	Spreading flax lily	Tubestock	3	10%	
DIA rev	*Dianella revoluta var. revoluta*	Blue flax lily	Tubestock	3	20%	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	Tubestock	2	10%	
THE aus	*Themeda australis*	Kangaroo grass	Tubestock	4	20%	7,658
WAH gra	*Walenbergia gracilis*	Australian bluebell	Tubestock	4	10%	15,316
ARI ram	*Aristida ramosa*	Purple wiregrass	Tubestock	3	20%	5,105
ART mill	*Arthropodium milleflorum*	Vanilla lily	Tubestock	2	10%	20,422 10,211 15,316 5,105

P3b (ii)	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - Hydroseed + Straw mulch*			Total m²: 49,503
Performance Requirements: -No in-frangible plant species -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	99,006 to 123,758
Grasses and groundcovers				
DIA lon	*Dianella longifolia*	Spreading flax lily	3.00	
DIA rev	*Dianella revoluta var. revoluta*	Blue flax lily	1.25	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	3.00	14,851
THE aus	*Themeda australis*	Kangaroo grass	1.50	
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.25	14,851
Total weight				6,188 7,425 6,188 49,503

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M12 MOTORWAY
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
PLANTING SCHEDULE

FILE No. DS2020/000672 | PART 5 | SHEET: 2 OF 5 | A1
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SEEDING SCHEDULE

P3b (iii)	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - Compost Blanket*			Total m²: 40,314
Performance Requirements: -No in-frangible plant species -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	80,628 to 100,785
Grasses and groundcovers				
DIA lon	*Dianella longifolia*	Spreading flax lily	2.50	
DIA rev	*Dianella revoluta var. revoluta*	Blue flax lily	1.75	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	2.50	
THE aus	*Themeda australis*	Kangaroo grass	1.50	10,079
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.75	
Total weight				10,079

7,055
40,314

P3b (iv)	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - Flat areas - Hydroseed*			6,047 Total m²: 166,649
Performance Requirements: -No in-frangible plant species -Mature height must not obscure sight lines				7,055
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	333,298 to 416,623
Grasses and groundcovers				
DIA lon	*Dianella longifolia*	Spreading flax lily	2.50	
DIA rev	*Dianella revoluta var. revoluta*	Blue flax lily	1.75	
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	2.50	41,662
THE aus	*Themeda australis*	Kangaroo grass	1.50	29,164
WAH gra	*Wahlenbergia gracilis*	Australian bluebell	1.75	41,662
Total weight				24,997 29,164 166,649

SEEDING SCHEDULE

P3c	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - Flat areas - Hydroseed*			Total m²: 12,746
Performance Requirements: -No in-frangible plant species -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	25,492 to 31,865
Grasses and groundcovers				
ENT mar	*Entolasia marginata*	Bordered panic	4.00	
LOM lon	*Lomandra longifolia*	Spiny headed matrush	2.00	
THE aus	*Themeda australis*	Kangaroo grass	4.00	
Total weight				

5,098
12,746

P3d	*Shale Gravel Transition Forest - Low shrubs, Native herbs and grasses - Flat areas - Hydroseed*			2,549 Total m²: 32,806
				5,098
Performance Requirements: -No in-frangible plant species -Mature height must not obscure sight lines				
Optimal Planting Time: - Following completion of batter construction to provide batter stabilisation. - Time of year suitable for nominated plant species.				
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
Cover Crop Species				
ECH esu	*Echinochlora esculenta or Secale cereale*	Japanese Millet @ 20kg/ha (warmer months) or Rye Corn @ 25kg/ha (cooler months)	20-25	65,612 to 82,015
Grasses and groundcovers				
ENT mar	*Entolasia marginata*	Bordered panic	4.00	
LOM lon	*Lomandra longifolia*	Spiny headed matrush	2.00	
THE aus	*Themeda australis*	Kangaroo grass	4.00	13,122
Total weight				

13,122
32,806

6,561

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DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
PLANTING SCHEDULE

FILE No. DS2020/000672 | PART 5 | SHEET: 3 OF 5 | A1
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DRG No. M12CDD-GHDA-ALL-LA-DRG-609010 | REV E | VER 0 | EDMS No. | AMD No.

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PLOT DATE & TIME: 9/16/2021 11:51:45 AM

PLANTING SCHEDULE

P4a	*Cumberland Shale Plains Woodland - Higher tree density with large shrubs and understorey*					Total m²: 57,732
Performance Requirements:						
-Trees and shrubs to achieve robust growth in alignment with optimum growth characteristics for each species.						
Optimal Planting Time:						
-Follow installation of associated seeding mix.						
-Time of year suitable for nominated plant species.						
Code	Botanical name	Common Name	Container Size	Density/m²	Percentage	Quantity (no.)
Trees						
EUC bau	*Eucalyptus baueriana*	Blue box	5L	0.2	10%	
EUC cre	*Eucalyptus crebra*	Narrow-leaved ironbark	5L	0.1	10%	
EUC eug	*Eucalyptus eugenioides*	Thin-leaved stringybark	5L	0.2	10%	
Shrubs						1,155
ACA dec	*Acacia decurrens*	Green wattle	140mm	0.2	20%	577
ACA flo	*Acacia floribunda*	Weeping acacia	140mm	0.2	20%	1,155
BUR spi	*Bursaria spinosa*	Sweet bursaria	140mm	0.3	30%	2,309
						2,309
						5,196

P4b	*Shale Gravel Transition Forest - Higher tree density with large shrubs*					Total m²: 45,490
Performance Requirements:						
-Trees and shrubs to achieve robust growth in alignment with optimum growth characteristics for each species.						
Optimal Planting Time:						
- Follow installation of associated seeding mix.						
-Time of year suitable for nominated plant species.						
Code	Botanical name	Common Name	Container Size	Density/m²	Percentage	Quantity (no.)
Trees						
EUC cre	*Eucalyptus crebra*	Narrow-leaved ironbark	5L	0.1	10%	455
EUC fib	*Eucalyptus fibrosa*	Broad-leaved red-ironbark	5L	0.1	10%	455
MEL lin	*Melaleuca linariifolia*	Snow in summer	5L	0.2	10%	910
Shrubs						
BUR spi	*Bursaria spinosa*	Sweet bursaria	140mm	0.3	35%	4,776
DAV uli	*Daviesia ulicifolia*	Gorse bitter pea	140mm	0.3	35%	4,776

P4c	*Swamp Oak Forest - Trees, groundcovers and low shrubs*					Total m²: 7,144
Performance Requirements:						
-Trees and shrubs to achieve robust growth in alignment with optimum growth characteristics for each species.						
Optimal Planting Time:						
-Follow installation of associated seeding mix.						
-Time of year suitable for nominated plant species.						
Code	Botanical name	Common Name	Container Size	Density/m²	Percentage	Quantity (no.)
Trees						
ANG sub	*Angophora subvelutina*	Broad-leaved apple	5L	0.2	10%	143
CAS gla	*Casuarina glauca*	Swamp sheoak	5L	0.2	30%	429
EUC amp	*Eucalyptus amplifolia*	Cabbage gum	5L	0.2	15%	214
EUC bau	*Eucalyptus baueriana*	Blue box	5L	0.2	15%	214
EUC eug	*Eucalyptus eugenioides*	Thin-leaved stringybark	5L	0.2	10%	143
MEL lin	*Melaleuca linariifolia*	Snow in summer	5L	0.2	20%	286

PLANTING SCHEDULE

P4d	*River Flat Forest - Trees, groundcovers and low shrubs*					Total m²: 10,077
Performance Requirements:						
-Trees and shrubs to achieve robust growth in alignment with optimum growth characteristics for each species.						
Optimal Planting Time:						
- Follow installation of associated seeding mix.						
-Time of year suitable for nominated plant species.						
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
Trees						
ANG sub	*Angophora subvelutina*	Broad-leaved apple	5L	0.2	15%	302
CAS gla	*Casuarina glauca*	Swamp sheoak	5L	0.2	25%	504
EUC amp	*Eucalyptus amplifolia*	Cabbage gum	5L	0.2	15%	302
EUC bau	*Eucalyptus baueriana*	Blue box	5L	0.2	10%	202
EUC eug	*Eucalyptus eugenioides*	Thin-leaved stringybark	5L	0.2	10%	202
MEL lin	*Melaleuca linariifolia*	Snow in summer	5L	0.2	25%	504

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APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
PLANTING SCHEDULE

FILE No. DS2020/000672 | PART 5 | SHEET: 4 OF 5 | A1
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SIX SEASONS PLANTING SCHEDULE

P5a(i)	*Time of Burrugin - frosty and flowering*					Total m²: 412
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
EUC ter	*Eucalyptus tereticornis*	Forest red gum	45L	0.10	50%	21
DOR exc	*Doryanthes excelsa*	Gymea lily	5L	0.25	50%	52

P5a(ii)	*Rest node centre planting*					Total m²: 33
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
DIA rev	*Dianella revoluta var. revoluta*	Blue flax lily	150mm	3	50%	50
LOM lon	*Lomandra longifolia*	Spiny headed matrush	150mm	2	50%	33

P5b(i)	*Time of Wiritjiribin - cold and windy*					Total m²: 472
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
ACA flo	*Acacia floribunda*	Weeping acacia	140mm	0.30	40%	57
ACA dec	*Acacia decurrens*	Green wattle	140mm	0.30	30%	42
EUC eug	*Eucalyptus eugenioides*	Thin-leaved stringybark	140mm	As shown	30%	1

P5b(ii)	*Rest node centre planting*					Total m²: 33
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
ART mill	*Arthropodium milleflorum*	Vanilla lily	150mm	2.00	25%	17
DIC mic	*Dichelachne micrantha*	Shorthair plume grass	150mm	3.00	25%	25
THE tri	*Themeda triandra*	Kangaroo grass	150mm	3.00	30%	30
CAL cun	*Calotis cuneifolia*	Burr Daisy	150mm	2	20%	13
EUC eug	Eucalyptus eugenioides	Thin-leaved stringybark	45L	As shown	-	1

P5c(i)	*Time of Parra'dowee - eel*					Total m²: 191
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
ACA bin	*Acacia binervia*	Coast myall	140mm	0.30	50%	29
ANG his	*Angophora hispida*	Dwarf apple	25L	0.20	50%	19
FIC rub	*Ficus rubiginosa*	Port Jackson Fig	100L	As shown	-	1

P5c(ii)	*Rest node centre planting*					Total m²: 33
Code	Botanical name	Common Name	Container Size	Density /m²	Percentage	Quantity (no.)
BAU art	*Baumea articulata*	Jointed twig rush	150mm	3	30%	30
FIC nod	*Ficinea nodosa*	Club rush	150mm	3	40%	40
LOM lon	*Lomandra longifolia*	Basket grass	150mm	2	30%	20

SEEDING SCHEDULE

Grass	Blady grass treatment along both sides of the SUP where there is a SUP fence.			Total m²: 6,513
Code	Botanical name	Common Name	Minimum Application rate (kg/ha)	Quantity (g)
IMP cyl	*Imperata cylindrica*	Blady grass	20-25	13,026 to 16,283

TREES SCHEDULE - FLEURS AERODROME

Tree Planting					
Code	Botanical name	Common Name	Container Size	Density /m²	Quantity (no.)
EUC sub	*Eucalyptus subvelutina*	Broad-Leaved Apple	45L	As shown	93

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DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
PLANTING SCHEDULE

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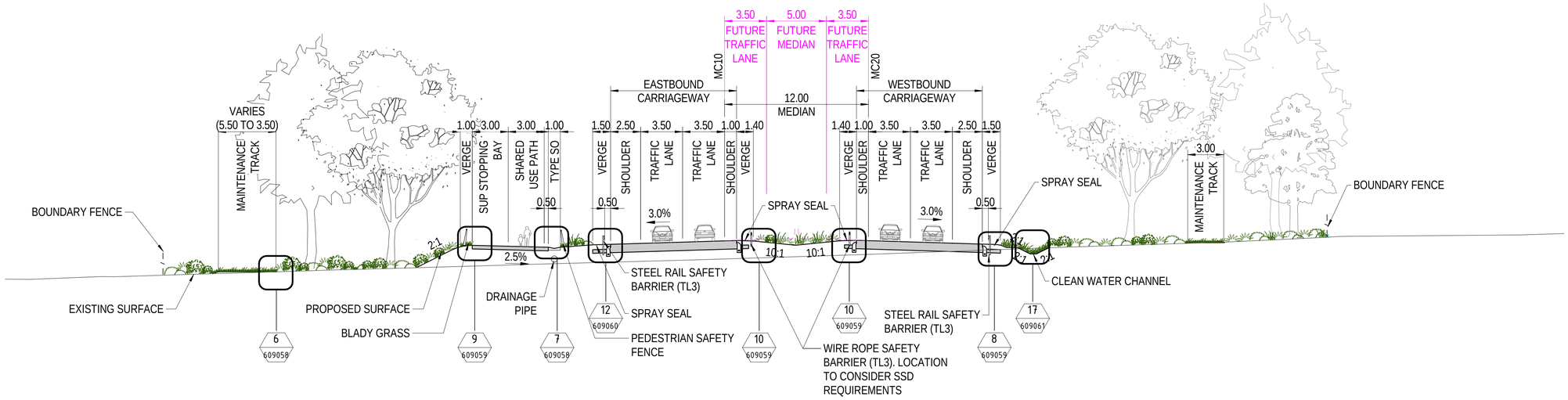

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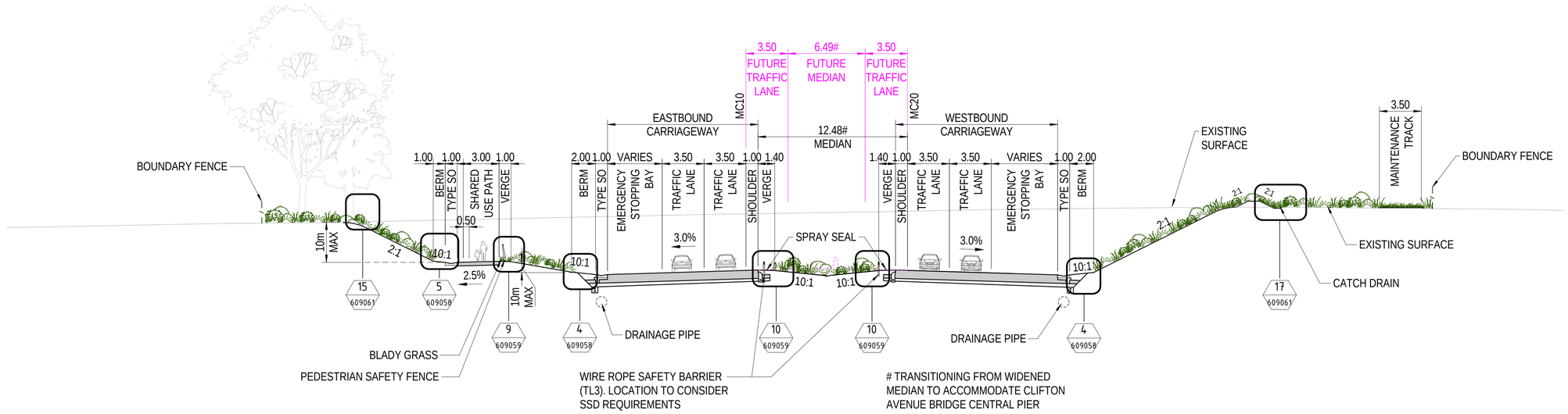

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1:200 @ A1 0 2 4 6 8 10 m

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M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
TYPICAL ROAD CROSS SECTION

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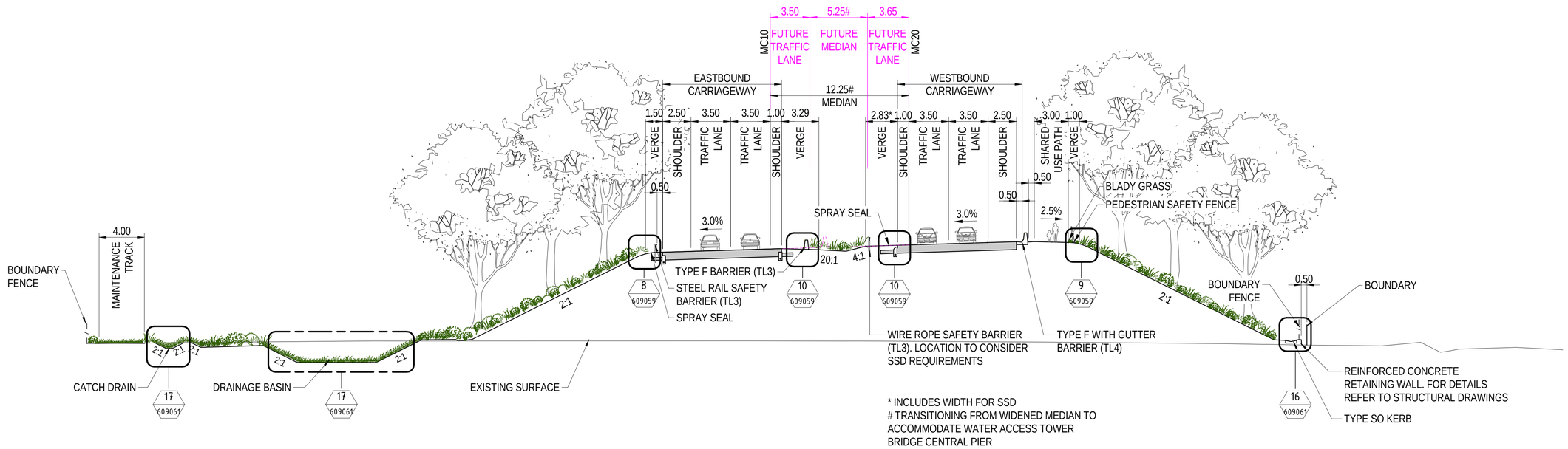

* INCLUDES WIDTH FOR SSD
\# TRANSITIONING FROM WIDENED MEDIAN TO ACCOMMODATE WATER ACCESS TOWER BRIDGE CENTRAL PIER

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1:200 @ A1 0 2 4 6 8 10 m

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M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
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TYPICAL ROAD CROSS SECTION

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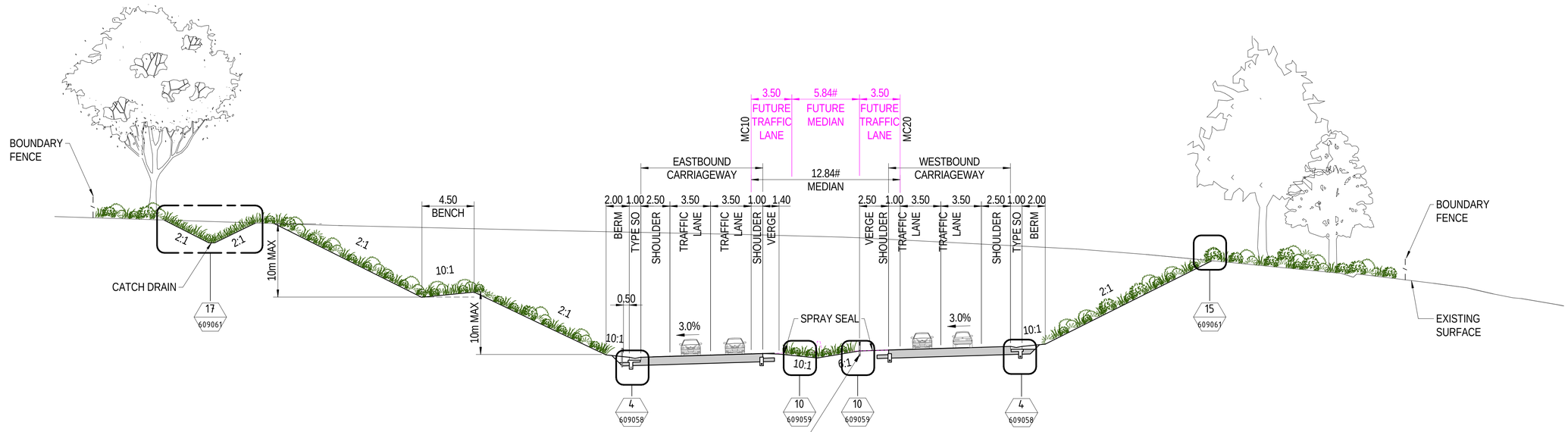

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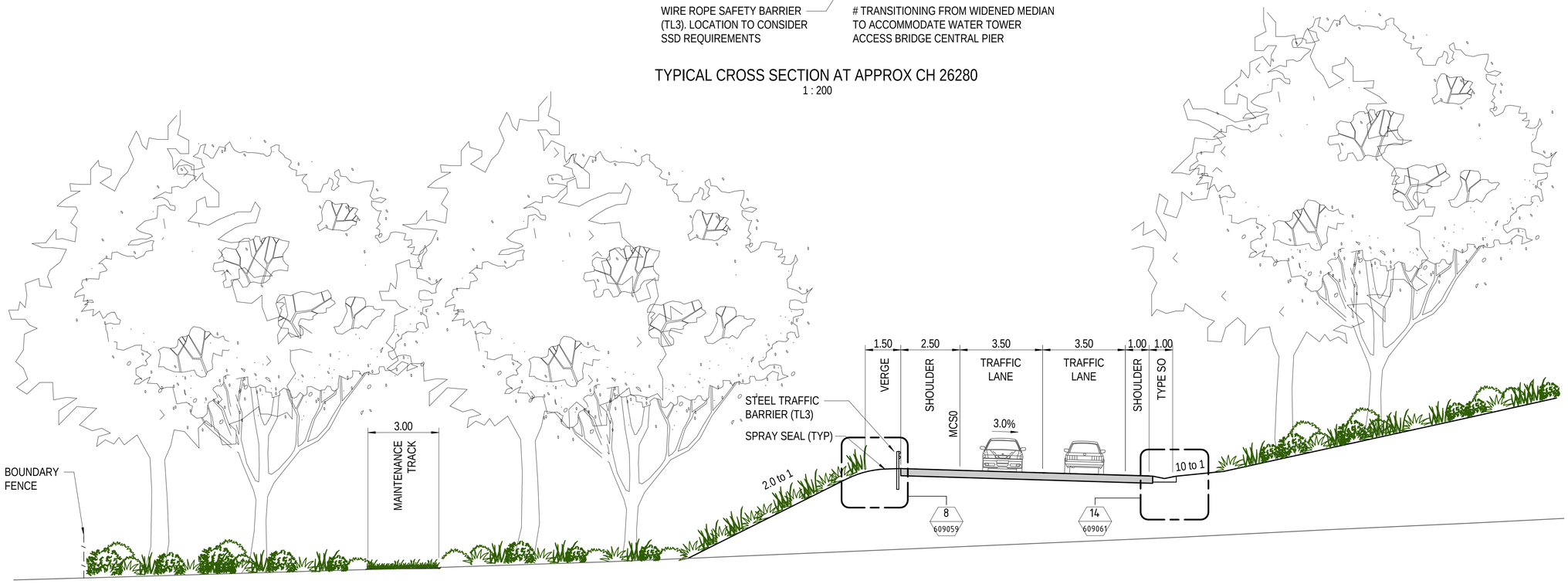

ELIZABETH DRIVE EXIT RAMP

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SCALE: AS INDICATED

1:100 @ A1 0 1 2 3 4 5 m

1:200 @ A1 0 2 4 6 8 10 m

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M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
TYPICAL ROAD CROSS SECTION

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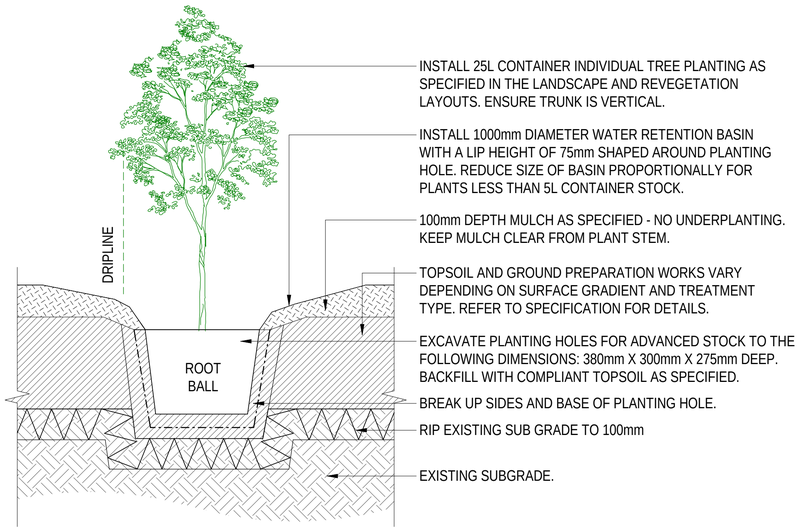
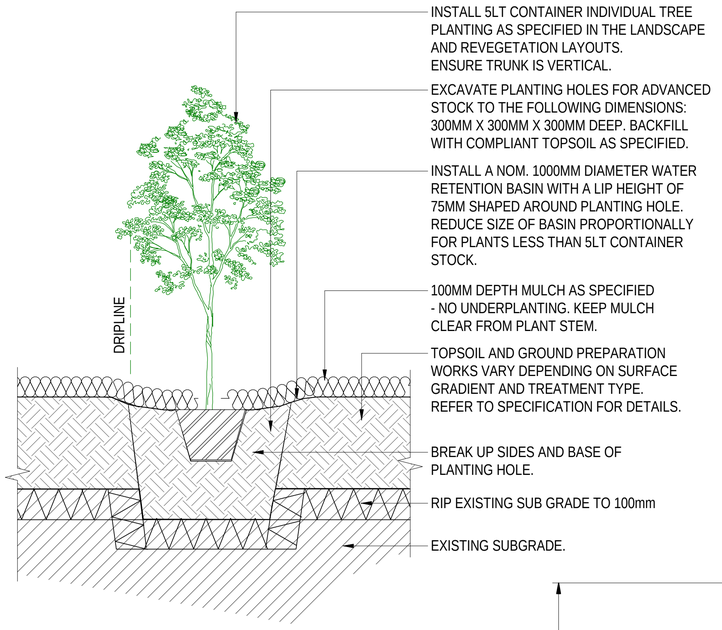
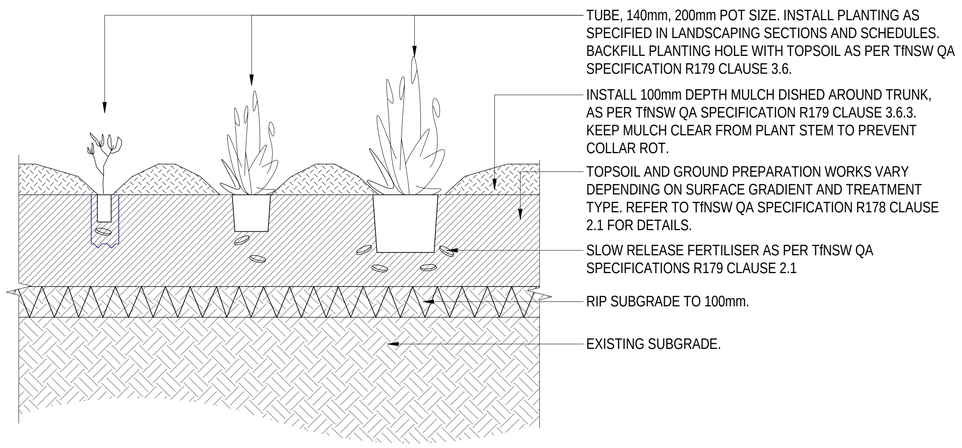


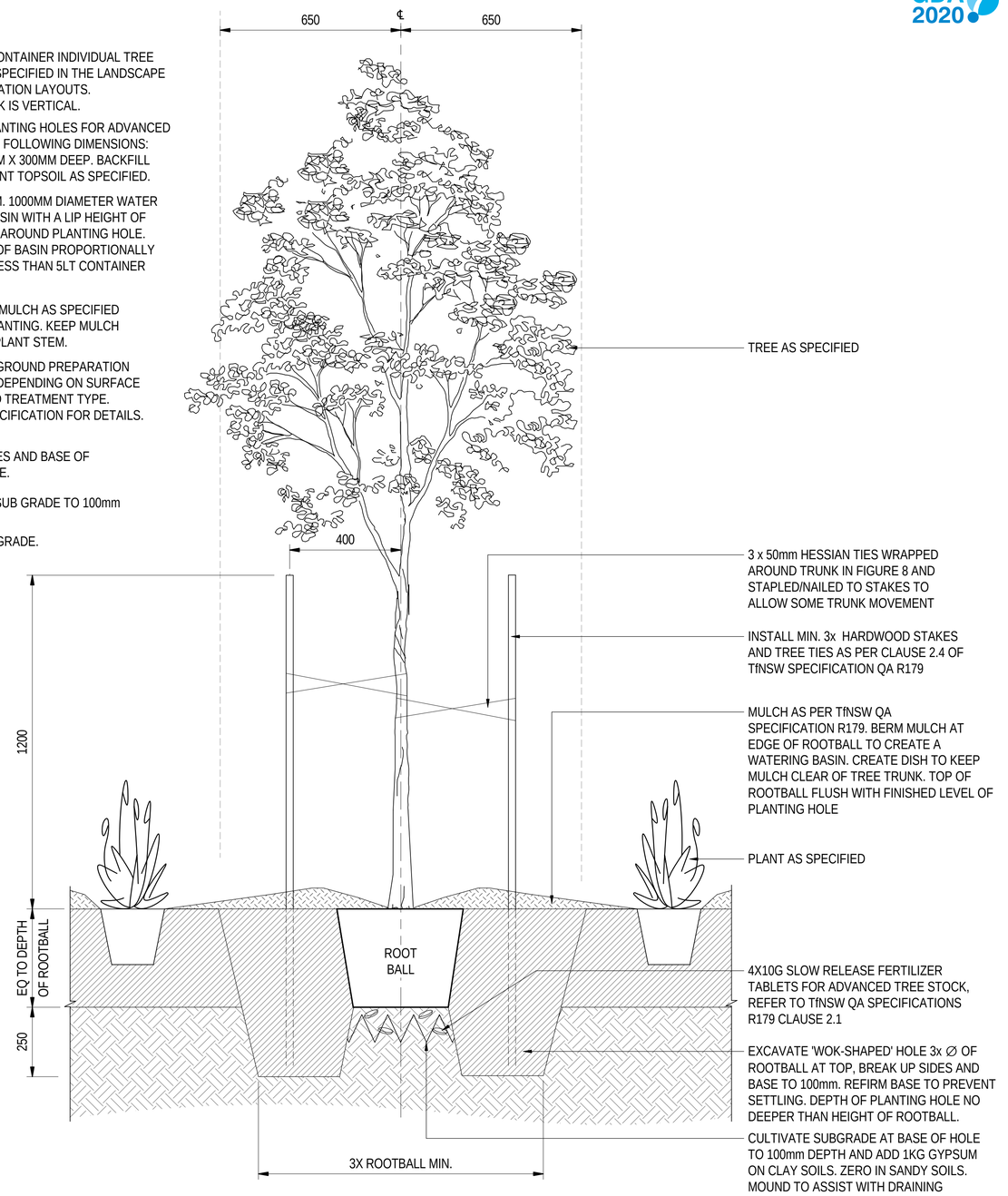
TYPICAL INDIVIDUAL 25L TREE PLANTING 1 / 609054
1 : 10



TYPICAL INDIVIDUAL 5L TREE PLANTING 2 / 609054
1 : 10



TYPICAL MASS PLANTING 3 / 609054
1 : 10



TYPICAL 45L AND LARGER TREE PLANTING 4 / 609054
1 : 10

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REFERENCES:

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E	ISSUED FOR TENDER	S.M. 16.09.2021	L.A. 16.09.2021	M.E. 16.09.2021
D	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
C	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
B	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021
A	ISSUED FOR 50% DETAILED DESIGN	S.M. 11.09.2020	L.A. 11.09.2020	M.E. 11.09.2020

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:10
1:10 @ A1 0 100 200 300 400 500 mm

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
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WESTERN SYDNEY PROJECT OFFICE
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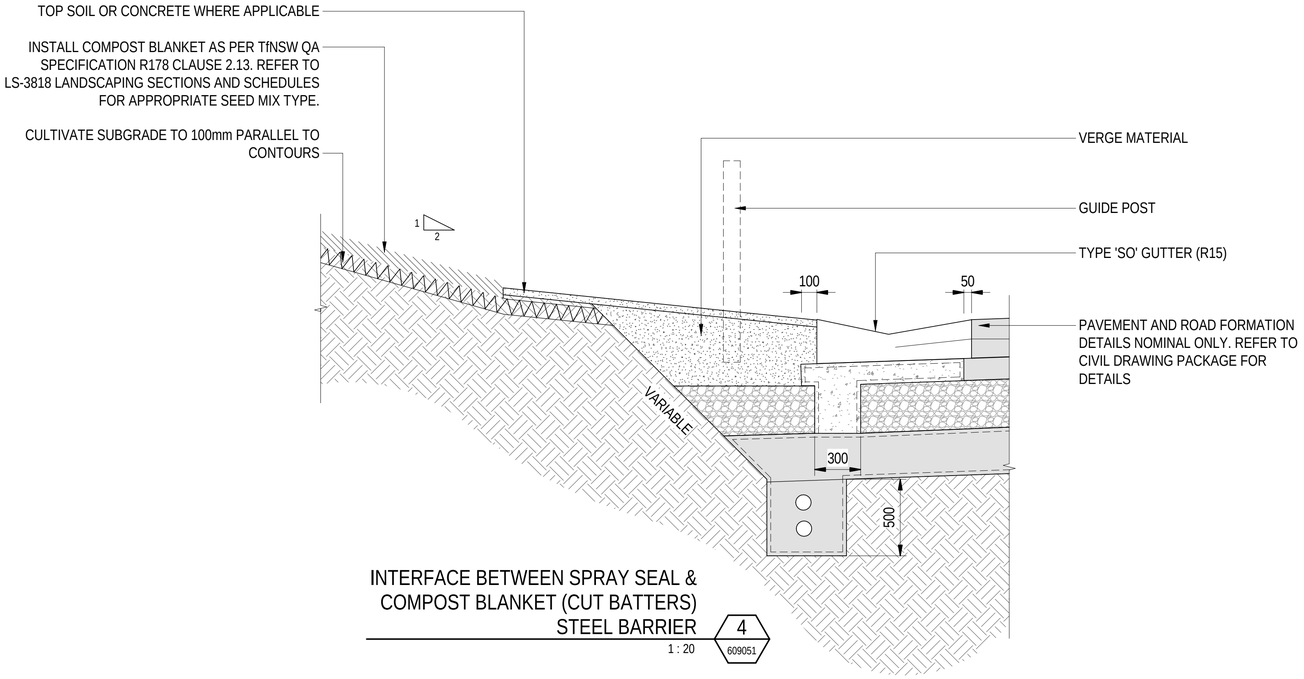
DRAWN	RACHEL VENTER	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

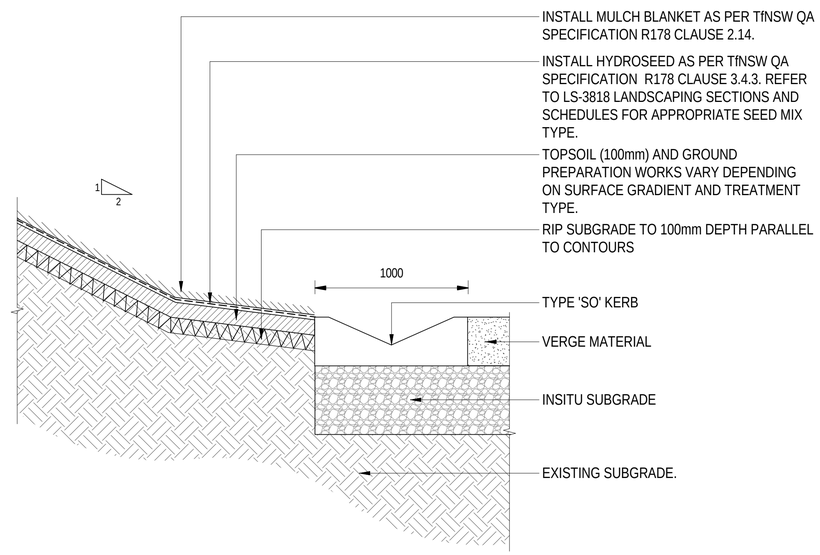
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 10 | A1
STATUS: ISSUED FOR TENDER ©
DRG No. M12CDD-GHDA-ALL-LA-DRG-609054 | REV E | VER 0 | EDMS No. | AMD No.

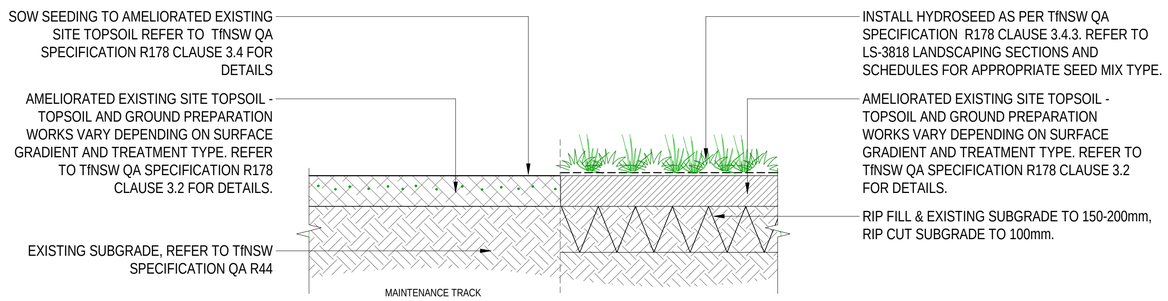
BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 11:53:58 AM



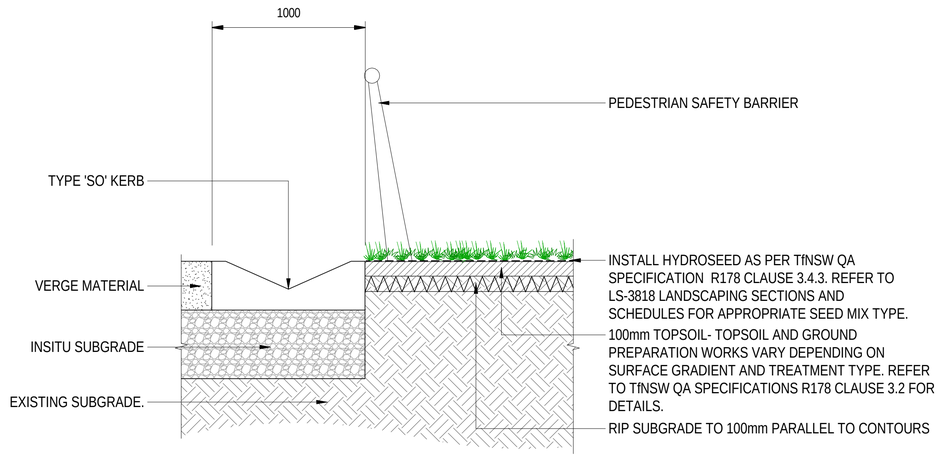
INTERFACE BETWEEN SPRAY SEAL & COMPOST BLANKET (CUT BATTERS) STEEL BARRIER 4 609051
1 : 20



INTERFACE BETWEEN MULCH BLANKET & 'SO' KERB 5 609051
1 : 20



INTERFACE BETWEEN ACCESS TRACK & HYDROSEED 6 609051
1 : 10



INTERFACE BETWEEN 'SO' KERB & HYDROSEED, PEDESTRIAN BARRIER 7 609051
1 : 20

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C	ISSUED FOR TENDER	S.M. 16.09.2021	L.A. 16.09.2021	M.E. 16.09.2021
B	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
A	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: AS INDICATED
1:10 @ A1 0 100 200 300 400 500 mm
1:20 @ A1 0 200 400 600 800 1000 mm

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
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WESTERN SYDNEY PROJECT OFFICE
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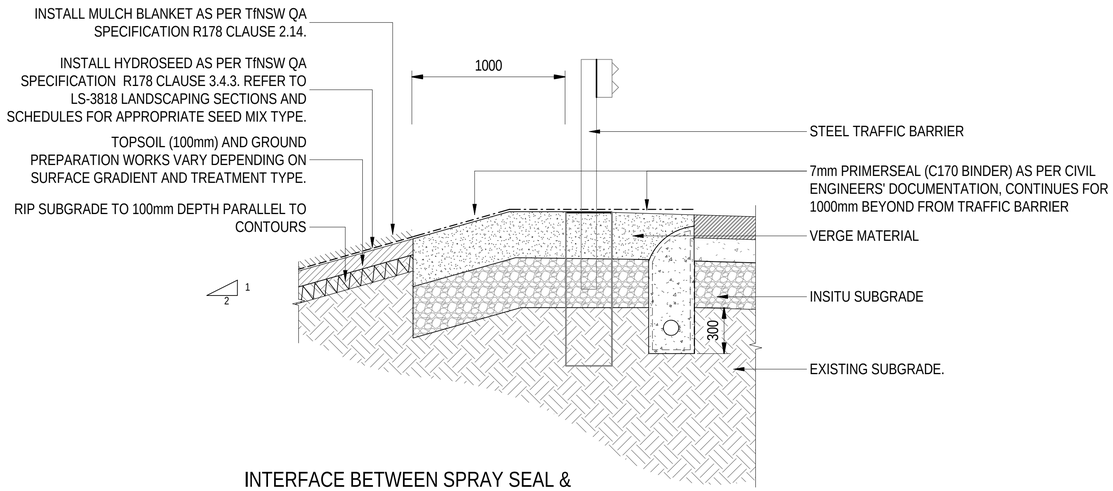
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 PART 5 SHEET: 2 OF 10 A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-ALL-LA-DRG-609058 REV C VER 0 EDMS No. AMD No.

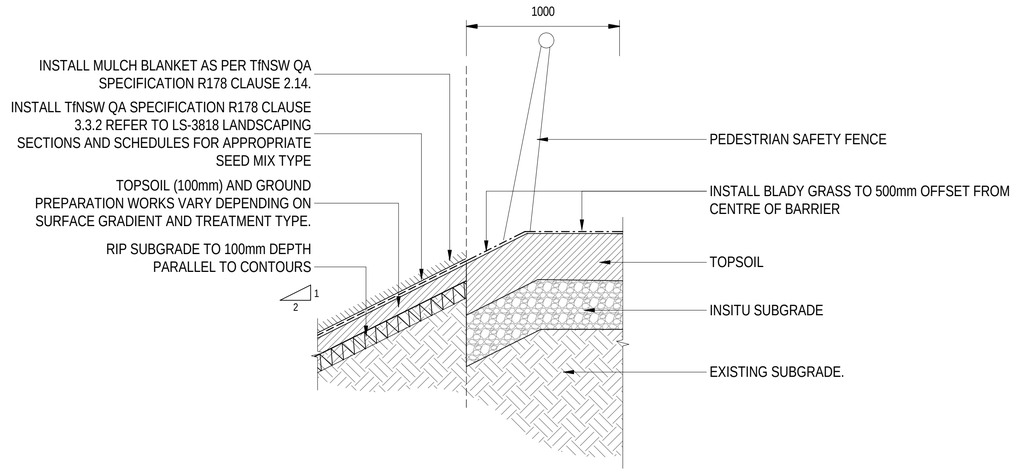
BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 11:54:13 AM



INTERFACE BETWEEN SPRAY SEAL & MULCH BLANKET (FILL BATTERS) STEEL BARRIER

8 / 609051

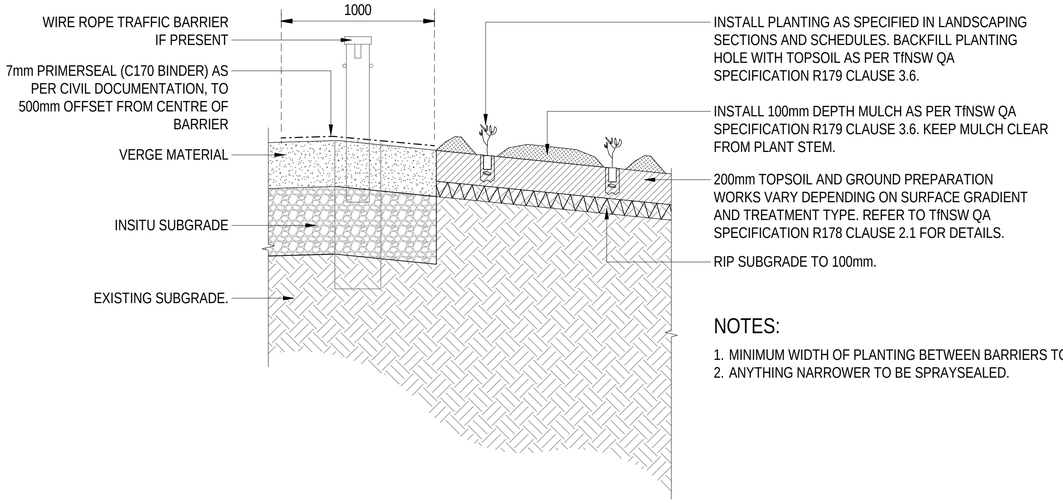
1 : 20



INTERFACE BETWEEN BLADY GRASS & MULCH BLANKET (FILL BATTERS), PEDESTRIAN BARRIER

9 / 609051

1 : 20



NOTES:

1. MINIMUM WIDTH OF PLANTING BETWEEN BARRIERS TO BE 2m.
2. ANYTHING NARROWER TO BE SPRAYSEALED.

INTERFACE BETWEEN DIRECT PLANTING & SPRAY SEAL MEDIAN, BARRIER VARIES

10 / 609051

1 : 20

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A	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:20

1:20 @ A1 0 200 400 600 800 1000 mm

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DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 3 OF 10 | A1

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DRG No. M12CDD-GHDA-ALL-LA-DRG-609059 | REV C | VER 0 | EDMS No. | AMD No.

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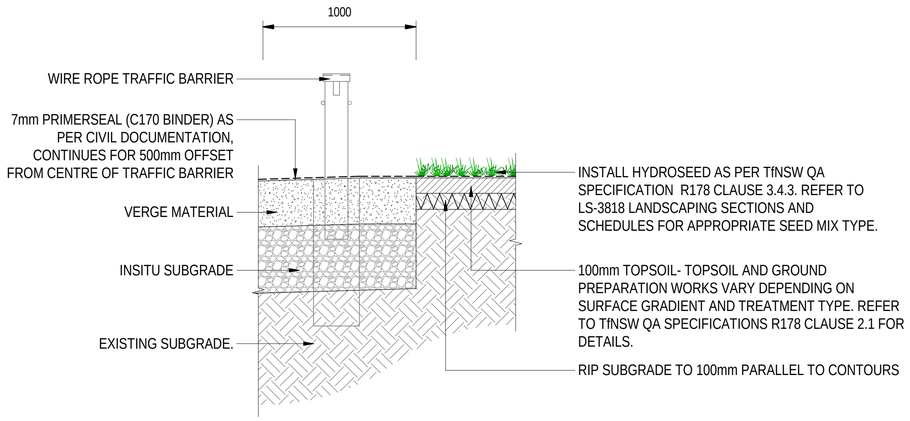
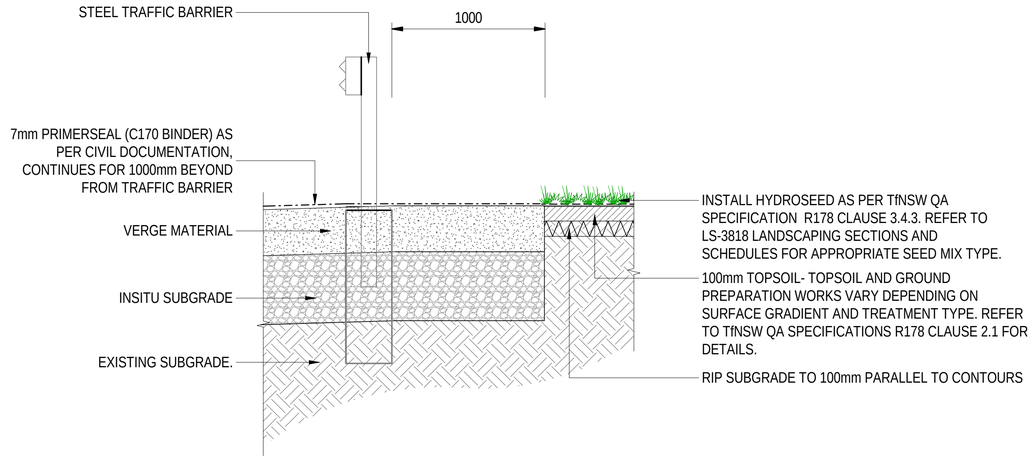
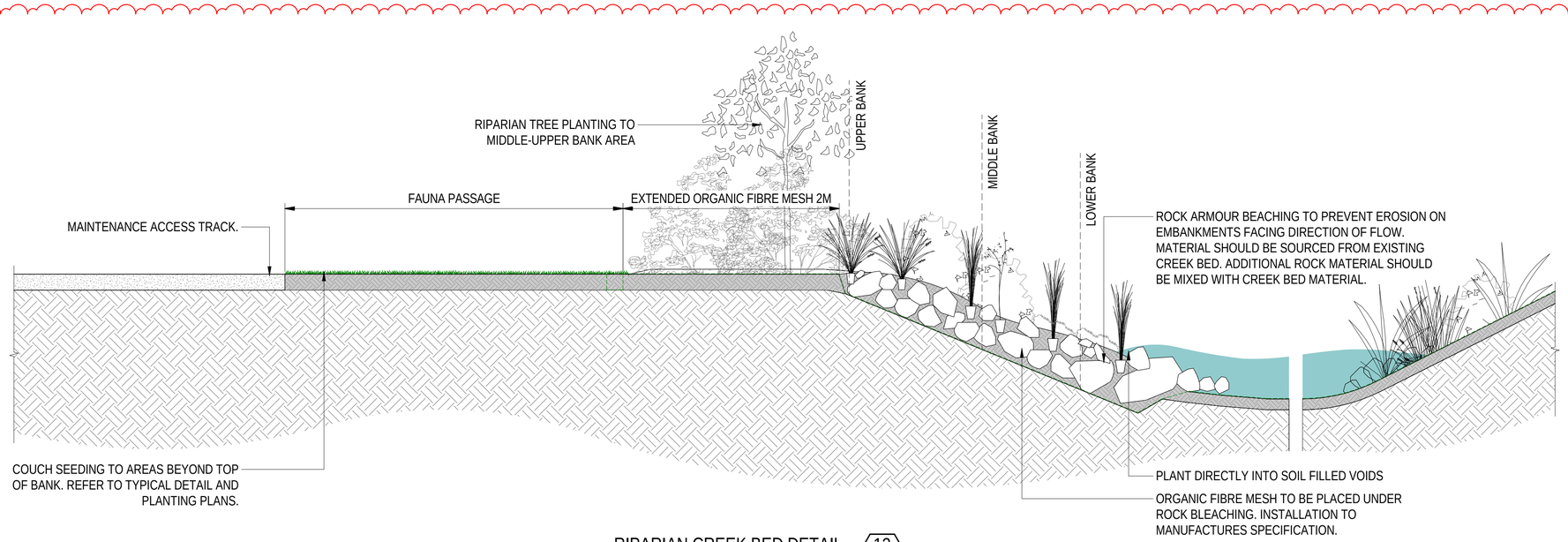


INTERFACE BETWEEN SPRAY SEAL & HYDROSEED, BARRIER VARIES — 11
1 : 20



INTERFACE BETWEEN SPRAY SEAL & HYDROSEED, STEEL BARRIER — 12 / 609051
1 : 20



RIPARIAN CREEK BED DETAIL — 13 / 609060
1 : 25

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A	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 — GDA2020 — HEIGHT DATUM: AHD 71

SCALE: AS INDICATED
1:20 @ A1 — 0 200 400 600 800 1000 mm
1:25 @ A1 — 0 250 500 750 1000 1250 mm

CLIENT: NSW GOVERNMENT — Transport for NSW

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DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 4 OF 10 | A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-ALL-LA-DRG-609060 | REV C | VER 0 | EDMS No. | AMD No.

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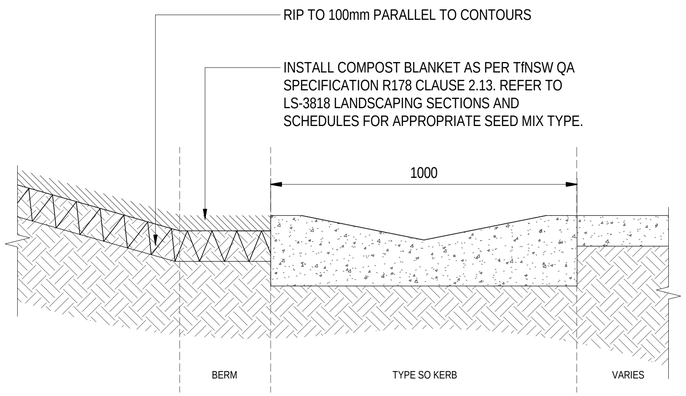
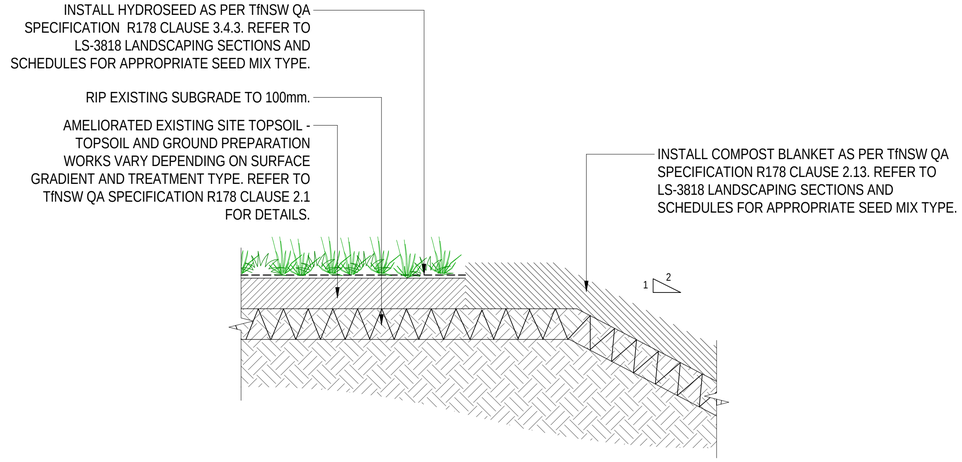
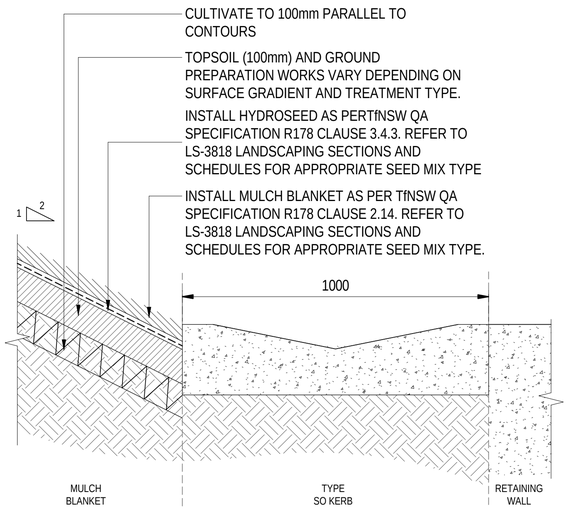
PLOT DATE & TIME: 9/16/2021 11:54:44 AM



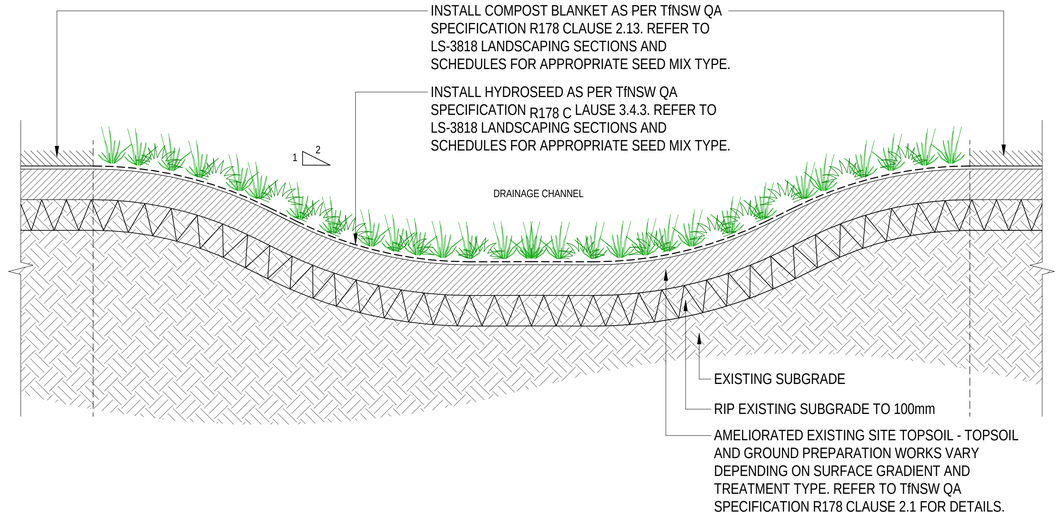
INTERFACE BETWEEN COMPOST BLANKET & 'SO' KERB 14 (609053)
1 : 10



INTERFACE BETWEEN HYDROSEED & COMPOST BLANKETS (CUT BATTERS) 15 (609051)
1 : 10



INTERFACE BETWEEN MULCH BLANKET & SO KERB 16 (609052)
1 : 10



INTERFACE BETWEEN COMPOST BLANKET & HYDROSEEDED DRAINAGE CHANNEL 17 (609051)
1 : 10

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:10

1:10 @ A1 0 100 200 300 400 500 mm

CLIENT: NSW GOVERNMENT Transport for NSW

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DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 5 OF 10 | A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-ALL-LA-DRG-609061 | REV C | VER 0 | EDMS No. | AMD No.

BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 11:55:00 AM

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
2. THE CONTRACTOR SHALL CONFIRM LOCATION OF ALL SERVICES AND DRAINAGE PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL ENSURE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ANY SERVICES AND DRAINAGE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY PROPPING FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION.
5. THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL ENGINEERING DRAWINGS, THE CONTRACT SPECIFICATION, AND OTHER WRITTEN INSTRUCTION AS MAY BE ISSUED. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, NOTES, THEN SPECIFICATION.
6. THE CONTRACT SPECIFICATION IS:
   BRIDGE AND STRUCTURE DETAIL DESIGN QA SPECIFICATION PS361 - ADDENDUM 4 25/11/2019
7. THESE DRAWINGS SHALL NOT BE USED FOR COMMITTING TO MATERIALS ORDERS, OR CONSTRUCTION UNTIL AUTHORISED AND ISSUED AS "FOR CONSTRUCTION".

SERVICES

1. THE CONTRACTOR'S ATTENTION IS PARTICULARLY DRAWN TO THE POTENTIAL HAZARD PRESENTED BY THE PRESENCE OF BURIED, CONCEALED, AND/OR OVERHEAD SERVICES IN THE AREA OF CONSTRUCTION ACTIVITY. PRIOR TO ANY CONSTRUCTION ACTIVITY ON SITE (INCLUDING EXCAVATION, DRILLING, OR PILING) THE CONTRACTOR SHALL CHECK WITH ALL RELEVANT AUTHORITIES AND OBTAIN ALL NECESSARY PERMITS. THE CONTRACTOR SHALL, BY SITE EXPLORATION, CONFIRM THE LOCATION OF ALL SERVICES WHICH MAY BE AFFECTED BY THE WORKS. THE CONTRACTOR SHALL MARK THE LOCATION OF ALL SERVICES CLEARLY AND ACCURATELY ON SITE AND ON THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO ESTABLISH THE LOCATION AND PROTECT ALL AFFECTED SERVICES AT THE SITE. SERVICES SHOWN ON DRAWINGS ARE INDICATIVE LOCATIONS ONLY. NOT ALL SERVICES ARE SHOWN ON THE DRAWINGS.

DESIGN CRITERIA

1. DEAD LOAD IN ACCORDANCE WITH AS1170.1-2002
2. WIND SPEED TO AS/NZS 1170.2-2021
3. REGION: A2
4. TERRAIN CATEGORY: 2
5. IMPORTANCE LEVEL: 1
6. MULTIPLIERS:
   - WIND DIRECTION MULTIPLIER, M_d = 1.0
   - TERRAIN/HEIGHT MULTIPLIER, $M_{z,cat}$ = 0.91
   - SHIELDING MULTIPLIER, M_s = 1.0
   - TOPOGRAPHIC MULTIPLIER, M_t = 1.0
7. ANNUAL PROBABLITY OF EXCEEDANCE:
   - FOUNDATIONS: DESIGN LIFE = 40 YEARS, R (ULS) = 100, R (SLS) = 25
8. REGIONAL WIND SPEEDS
   - ULTIMATE LIMIT STATE DESIGN, V_{1000} = 41 m/s
   - SERVICEABILITY LIMIT STATE DESIGN, V_{20} = 37 m/s
9. NET POROSITY FACTOR: K_p = 1.0
10. NET PRESSURE COEFFICIENTS IN ACCORDANCE WITH TABLE D2 OF AS/NZS 1170.2-2011

CONCRETE

1. ALL CONCRETE IN CAST-IN PLACE PILES SHALL BE EXPOSURE CLASSIFICATION B2.
2. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 40MPa
3. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF NON-SHRINK GROUT PADS SHALL BE 50MPa UNDER SIGN BASE PLATES.
4. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF MASS CONCRETE SHALL BE 20MPa.
5. ALL CONCRETE WORK SHALL COMPLY WITH TfNSW QA SPECIFICATION B80.
6. MORTARS AND GROUTS SHALL BE IN ACCORDANCE WITH TfNSW D&C SPECIFICATION R53.
7. MINIMUM COVER (mm) TO ALL REINFORCEMENT U.N.O. SHOWN ON THE DRAWINGS SHALL BE AS FOLLOWS:

ELEMENT	CONCRETE COVER (mm)			
	CAST AGAINST			PRECAST*
	FORMS	BLINDING	GROUND	
BORED PILES	N/A	N/A	80	N/A
PILE CAPS / BEAMS ON GROUND /FOOTINGS	45	50	70	N/A

8. THE NOMINATED COVER DOES NOT INCLUDE ADDITIONAL ALLOWANCE FOR THE USE OF CURING COMPOUNDS.
9. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2018 AND CONTRACT SPECIFICATION.
10. WHERE THE MEANING OF ABBREVIATIONS USED IS UNCERTAIN, SEE ENGINEER FOR CLARIFICATION PRIOR TO PROCEEDING.
11. ALL CONCRETE SHALL BE CONTINUOUSLY CURED FOR AT LEAST 7 DAYS.
12. CONCRETE SHALL BE FROM AN APPROVED SOURCE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING STANDARDS, U.N.O.:

STANDARD No.	STANDARD NAME
AS 5100.5	BRIDGE DESIGN PART 5 CONCRETE
AS 4671	STEEL REINFORCING MATERIALS
AS 3972	GENERAL PURPOSE AND BLENDED CEMENT
AS 1379	SPECIFICATION AND SUPPLY OF CONCRETE
AS 2758.1	AGGREGATES AND ROCK FOR ENGINEERING PURPOSES

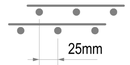
14. U.N.O ALL CEMENT SHALL BE "GP" GENERAL PURPOSE OR "GB" GENERAL PURPOSE BLENDED CEMENT AS SPECIFIED IN TfNSW QA SPECIFICATION B80 AND SHALL COMPLY WITH AS 3972. NO PENETRATIONS, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN THE CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
15. REINFORCING BARS SHALL NOT BE USED TO KEEP FORMS APART. A THROUGH TIE STEEL SYSTEM SHALL BE USED TO MAINTAIN THE POSITION OF THE FORMS. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON APPROVED BAR CHAIRS AT NOT GREATER THAN 800mm CENTRES BOTH WAYS. MESH SHALL BE SUPPORTED ON APPROVED BAR CHAIRS AT 800mm MAXIMUM CENTRES.
16. THE COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS. IN SLABS BAR CHAIRS SHALL BE PLACED SUFFICIENTLY CLOSE TOGETHER TO ENSURE THE SPECIFIED COVER AND PREVENT DEFORMATION OF THE BAR CHAIRS.
17. CONDUITS AND PIPES WHEN CAST IN SLABS AND WALLS SHALL BE PLACED AT MIDDLE THIRD THICKNESS OF MEMBERS AND BETWEEN TWO REINFORCEMENT LAYERS. WHERE THERE IS ONLY ONE LAYER OF REINFORCEMENT, PROVIDE 50mm COVER TO CONDUIT.
18. ALL FORMED EXPOSED EDGES AND RE-ENTRANT CORNERS SHALL BE CHAMFERED OR FILLETED 20 x 20mm U.N.O. ON THE DRAWINGS. DRIP GROOVES TO BE PROVIDED IN SOFFIT OF ALL BEAMS AND SLABS TO PERIMETER OF STRUCTURES (WITH DUE ALLOWANCE FOR MINIMUM COVER TO REINFORCEMENT).
19. MAXIMUM ALLOWED FREE DROP OF CONCRETE DURING PLACING IS 2000mm.

STEEL REINFORCEMENT

1. THE STEEL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATION AND AS3600 UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
2. REINFORCEMENT SHOWN ON THE DRAWINGS IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.
3. STEEL REINFORCEMENT GRADE SHALL BE AS FOLLOWS :-
   N - HOTROLLED DEFORMED BARS TO AS/NZ4671 (GRADE 500N)
4. STANDARD ABBREVIATIONS :
   NF -NEAR FACE, FF -FAR FACE, T -TOP

BAR SIZE	N10	N12	N16	N20	N24	N28	N32	N36
HORIZONTAL BARS WITH ≥ 300mm OF CONCRETE CAST BELOW THE BAR	400	500	650	950	-	-	-	-
OTHER BARS	300	350	500	750	-	-	-	-
DEVELOPMENT LENGTH	400	500	650	950	-	-	-	-

5. MINIMUM MESH REINFORCEMENT LAP SHALL BE 1 SPACE + 25mm



   - LAPS BASED ON 45mm COVER AND CONCRETE f'c = 40MPa.
   - WHERE THE BAR SIZES AT A LAP VARY, THE LAP LENGTH SHALL BE BASED ON THE SIZE OF THE SMALLER BAR
   - INCREASE THE LENGTH BY 20% FOR A 3 -BAR BUNDLE AND 33% FOR A 4-BAR BUNDLE.
   - DECREASE THE LENGTH BY 25% FOR STAGGERED SPLICE IF NOT MORE THAN 50% OCCUR AT ANY LOCATION.
   - SPLICES IN THE REINFORCEMENT SHALL BE MADE ONLY AT LOCATION SHOWN ON THE DRAWING OR OTHERWISE APPROVED BY THE ENGINEER
6. SECURELY TIE REINFORCEMENT WITH WIRE TIES. TURN ENDS OF TIE WIRES INTO CONCRETE, CLEAR OF COVER ZONE.
7. SPACING OF REINFORCEMENT SHALL BE TAKEN AS EQUAL U.N.O.
8. DO NOT WELD OR HEAT REINFORCEMENT UNLESS SHOWN ON DRAWINGS OR OTHERWISE APPROVED BY SUPERINTENDENT. WHERE ALLOWED, WELDING OF REINFORCEMENT (INCLUDING TACK-WELDING FOR FIXING PURPOSES) IS TO COMPLY WITH AS5100 AND AS1554.3. DO NOT WELD REINFORCEMENT WITHIN 75mm OF A SECTION THAT HAS BEEN BENT (100mm FOR N28 AND N32 BARS, 125mm FOR N36 BARS). EXTENT OF WELD INSPECTION/TESTING TO BE IN ACCORDANCE WITH TfNSW QA SPECIFICATION B203.

FOUNDATIONS

1. DESIGN ULTIMATE BEARING PRESSURE IS 250kPa. ALLOWABLE BEARING CAPACITY SHALL BE OBTAINED BY APPLYING A GEOTECHNICAL REDUCTION FACTOR OF 0.4.
2. THE BEARING CAPACITY AT FOUNDING LEVEL SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
3. ASSUMED FOUNDING CONDITION TO BE MEDIUM DENSE OR BETTER FOR GRANULAR SOILS OR STIFF OR BETTER FOR COHESIVE SOILS (Su>50kPa). ANY INADEQUATE MATERIAL MUST BE REMOVED AND REPLACED WITH SELECT FILL IN ACCORDANCE WITH TfNSW QA SPECIFICATION B30.
4. GROUND WATER IS ASSUMED TO BE BELOW BASE OF CONCRETE FOOTING.

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: NTS

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
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DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 6 OF 10 | A1
STATUS: ISSUED FOR TENDER ©
DRG No. M12CDD-GHDA-ALL-LA-DRG-609062 | REV A | VER 0 | EDMS No. | AMD No.

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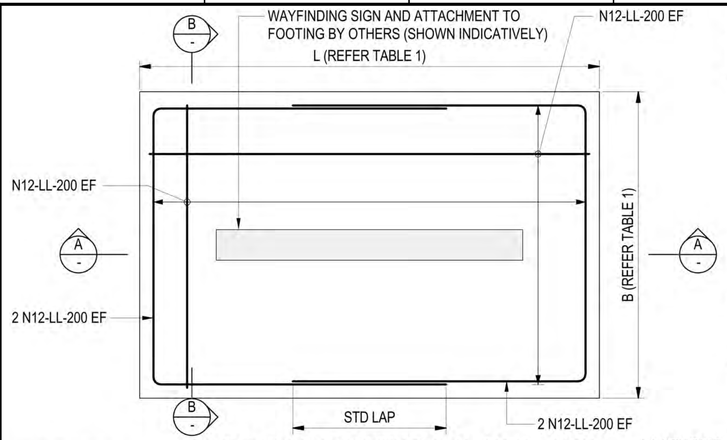
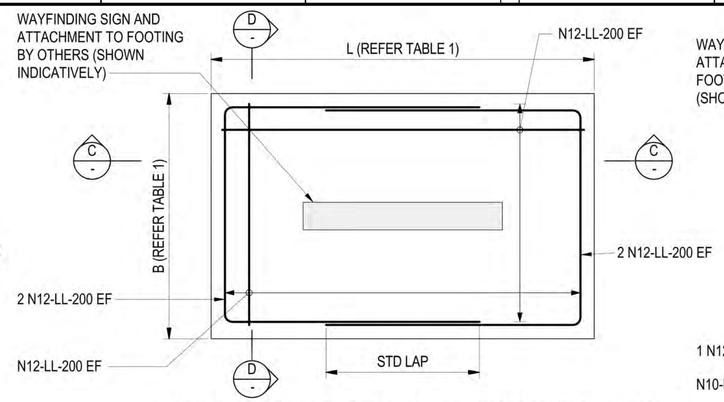
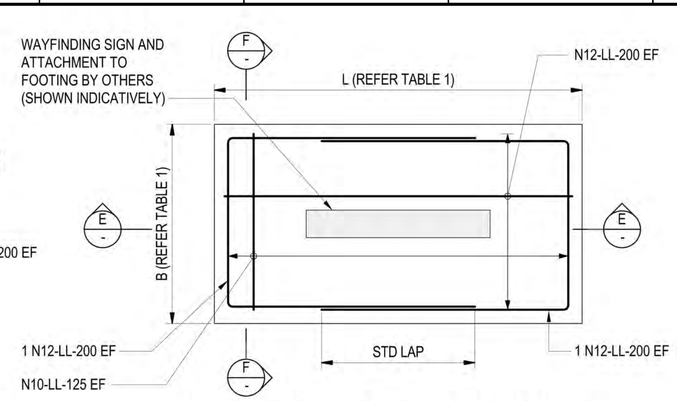


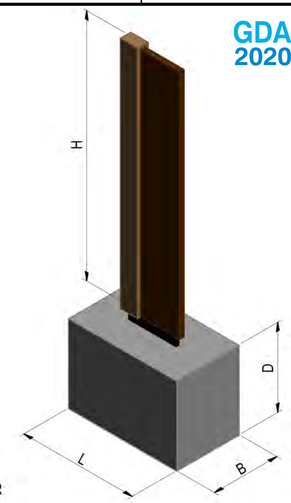
FOOTING REINFORCEMENT PLAN - MAJOR SIGN
SCALE 1 : 10



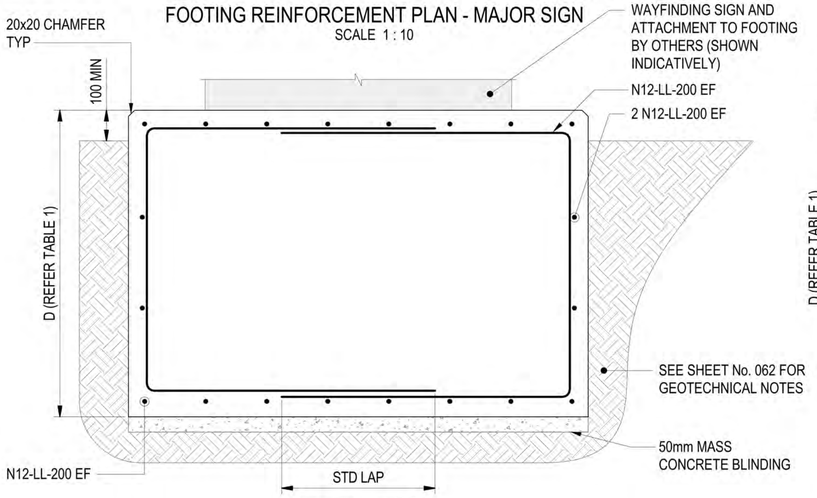
FOOTING REINFORCEMENT PLAN - INTERMEDIATE SIGN
SCALE 1 : 10



FOOTING REINFORCEMENT PLAN - MINOR SIGN
SCALE 1 : 10



TYPICAL WAYFINDING SIGN ISOMETRIC
NOT TO SCALE



SECTION A
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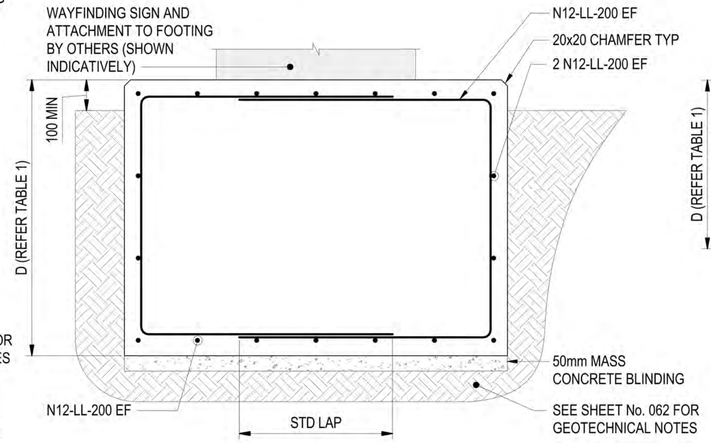

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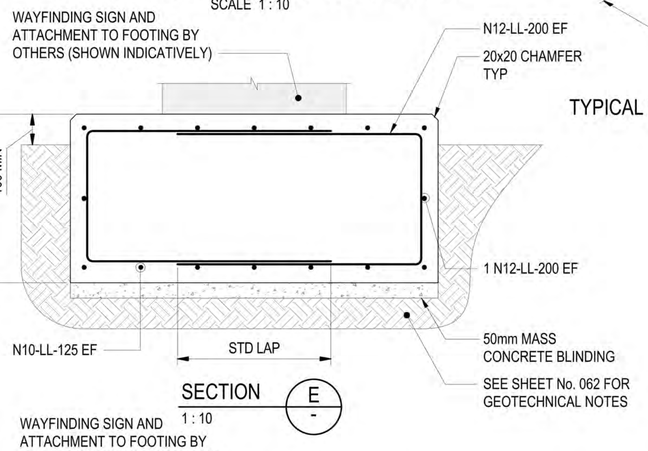

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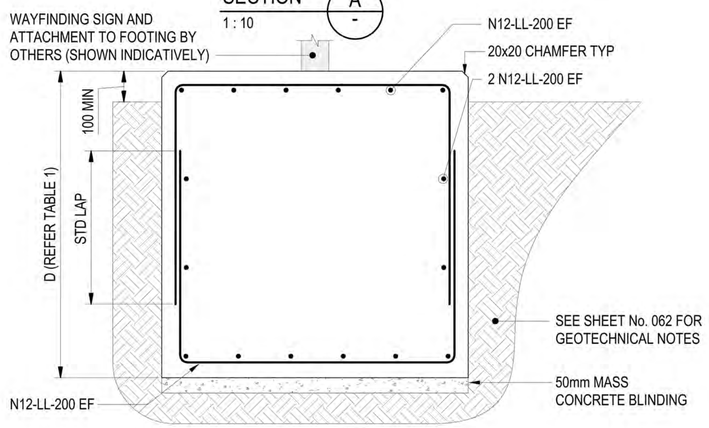

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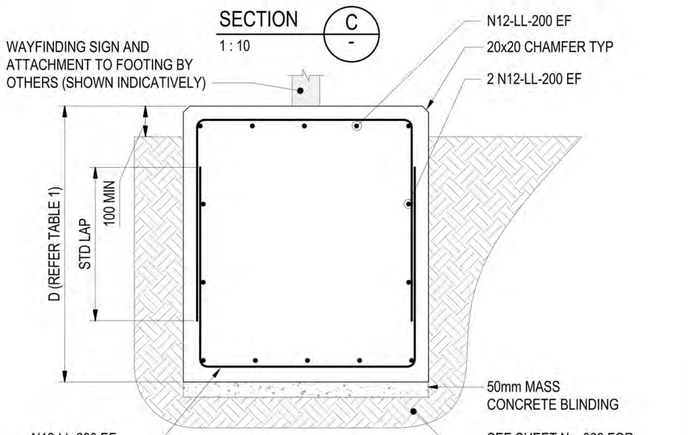

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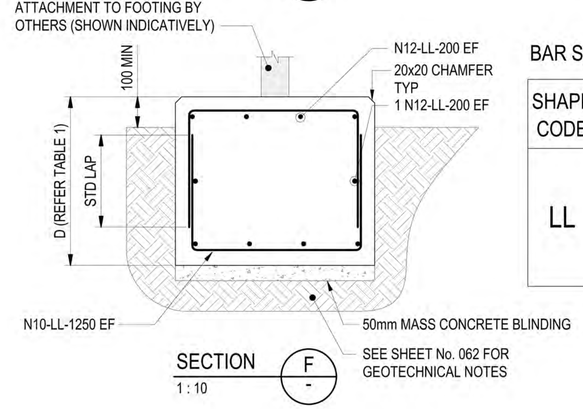


SECTION F
1 : 10

BAR SHAPE DIAGRAM

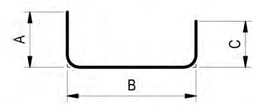
SHAPE CODE	AUSTRALIAN STANDARD SHAPE
LL	

TABLE 1 - FOOTING DIMENSIONS

SIGN TYPE	SIGN APPROX. HEIGHT (m)	LENGTH OF FOOTING, L (m)	DEPTH OF FOOTING, D (m)	WIDTH OF FOOTING, B (m)
MAJOR SIGN	3.8	1.5	1	1
INTERMEDIATE SIGN	2.8	1.25	0.9	0.8
MINOR SIGN	1.2	1.2	0.55	0.65

GENERAL NOTES

1. SEE SHEET No. 062 FOR GENERAL NOTES.

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:10
1:10 @ A1 0 100 200 300 400 500 mm

CLIENT: NSW GOVERNMENT Transport for NSW

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SYDNEY PROJECT DELIVERY
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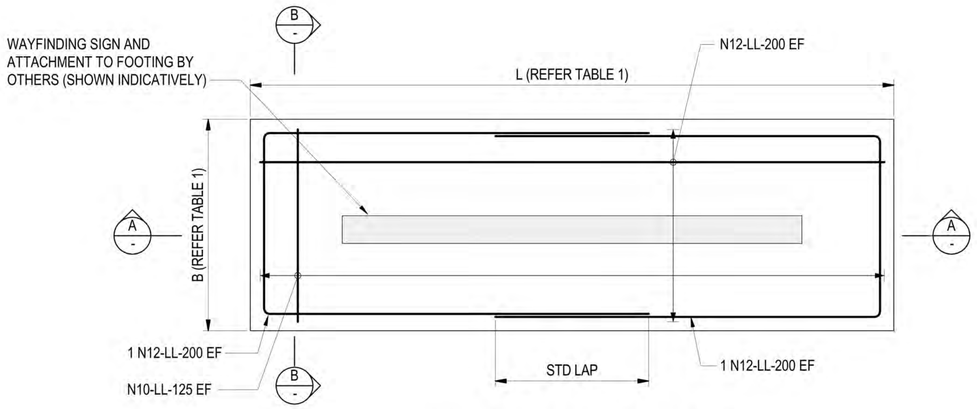
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

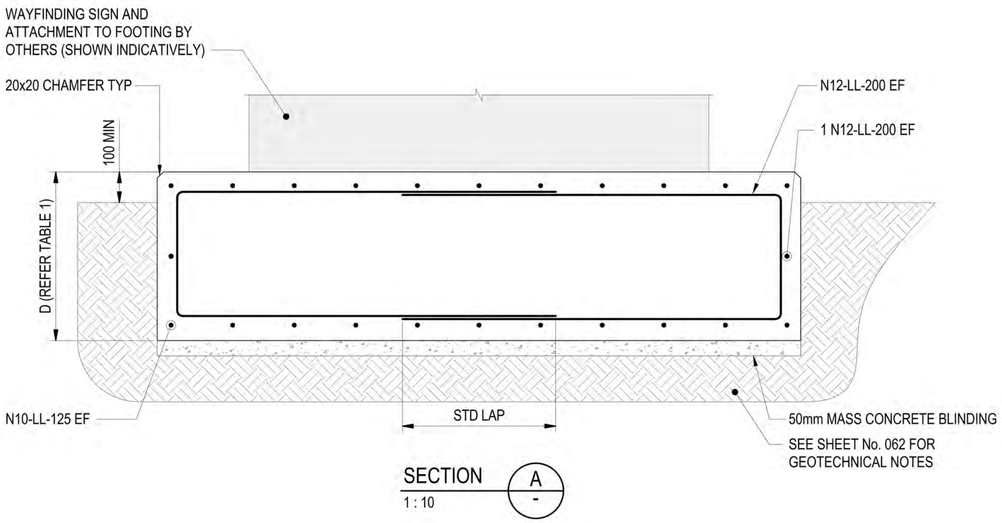
PACKAGE 2 - CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 7 OF 10 | A1
STATUS: ISSUED FOR TENDER ⓒ
DRG No. M12CDD-GHDA-ALL-LA-DRG-609063 | REV A | VER 0 | EDMS No. | AMD No.

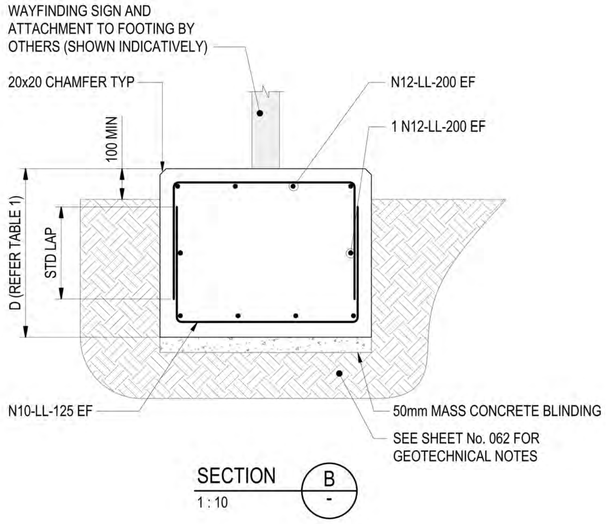
BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 11:57:44 AM



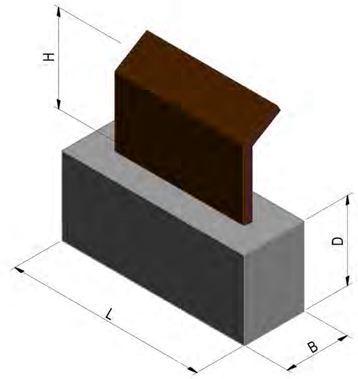
FOOTING REINFORCEMENT PLAN
SCALE 1 : 10



SECTION A
1 : 10



SECTION B
1 : 10



TYPICAL NON-ABORIGINAL HERITAGE SIGN ISOMETRIC
NOT TO SCALE

BAR SHAPE DIAGRAM

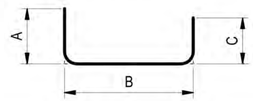
SHAPE CODE	AUSTRALIAN STANDARD SHAPE
LL	

TABLE 1 - FOOTING DIEMSNIONS

SIGN APPROX. HEIGHT (m)	LENGTH OF FOOTING, L (m)	DEPTH OF FOOTING, D (m)	WIDTH OF FOOTING, B (m)
1.02	2.1	0.55	0.69

GENERAL NOTES

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:10

1:10 @ A1 0 100 200 300 400 500 mm

CLIENT: NSW GOVERNMENT Transport for NSW

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WESTERN SYDNEY PROJECT OFFICE
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DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 8 OF 10 | A1
STATUS: ISSUED FOR TENDER ©
DRG No. M12CDD-GHDA-ALL-LA-DRG-609064 | REV A | VER 0 | EDMS No. | AMD No.

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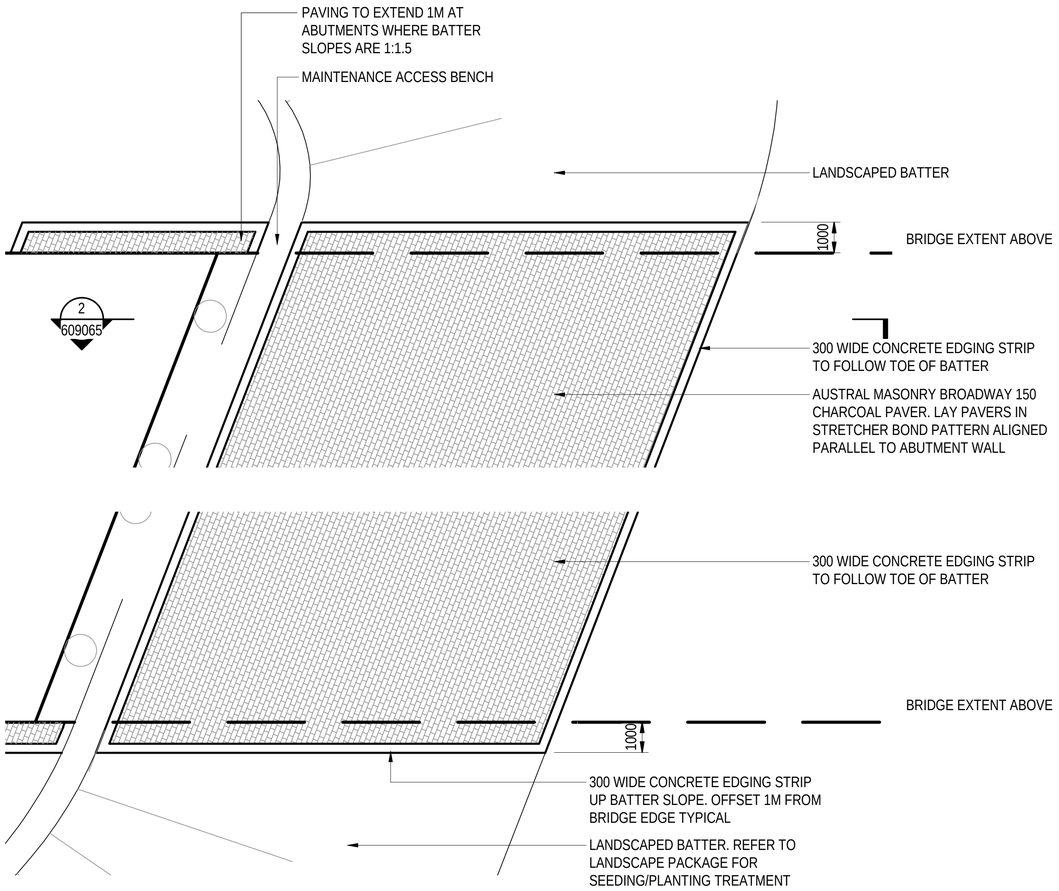
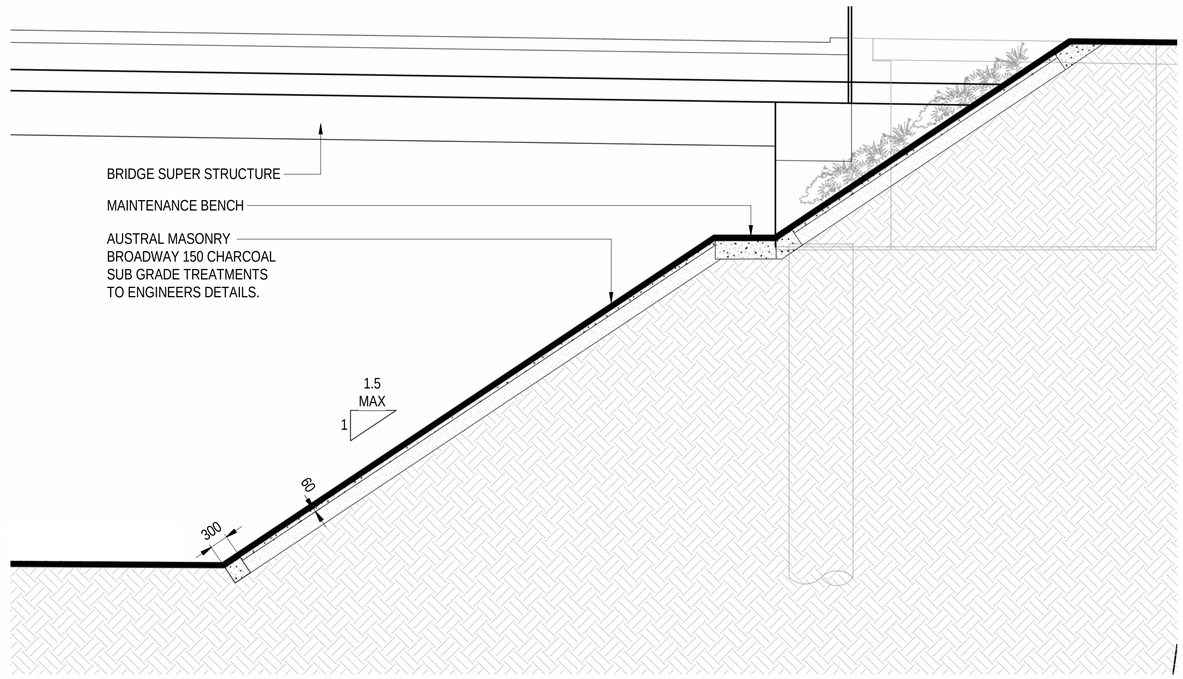
PLOT DATE & TIME: 9/16/2021 11:59:06 AM



TYPICAL SPILL THROUGH ABUTMENT - PLAN

1 : 100

1 / 609065



TYPICAL SPILL THROUGH ABUTMENT - PAVING OVER SPILL THROUGH (OVER BRIDGES)

1 : 50

2 / 609065

GENERAL ABUTMENT NOTES:

1. MAX SLOPE OF 1 IN 1.5 UNDER BRIDGE WITH TRANSITIONAL SLOPE CHANGE TO MAX 1 IN 2 TO ROADWAY EMBANKMENT

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: AS INDICATED

1:50 @ A1 0 500 1000 1500 2000 2500 mm

1:100 @ A1 0 1 2 3 4 5 m

CLIENT: NSW GOVERNMENT Transport for NSW

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DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL

MAIN ALIGNMENT

LANDSCAPE WORKS

INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 9 OF 10 | A1

STATUS: ISSUED FOR TENDER ⓒ

DRG No. M12CDD-GHDA-ALL-LA-DRG-609065 | REV A | VER 0 | EDMS No. | AMD No.

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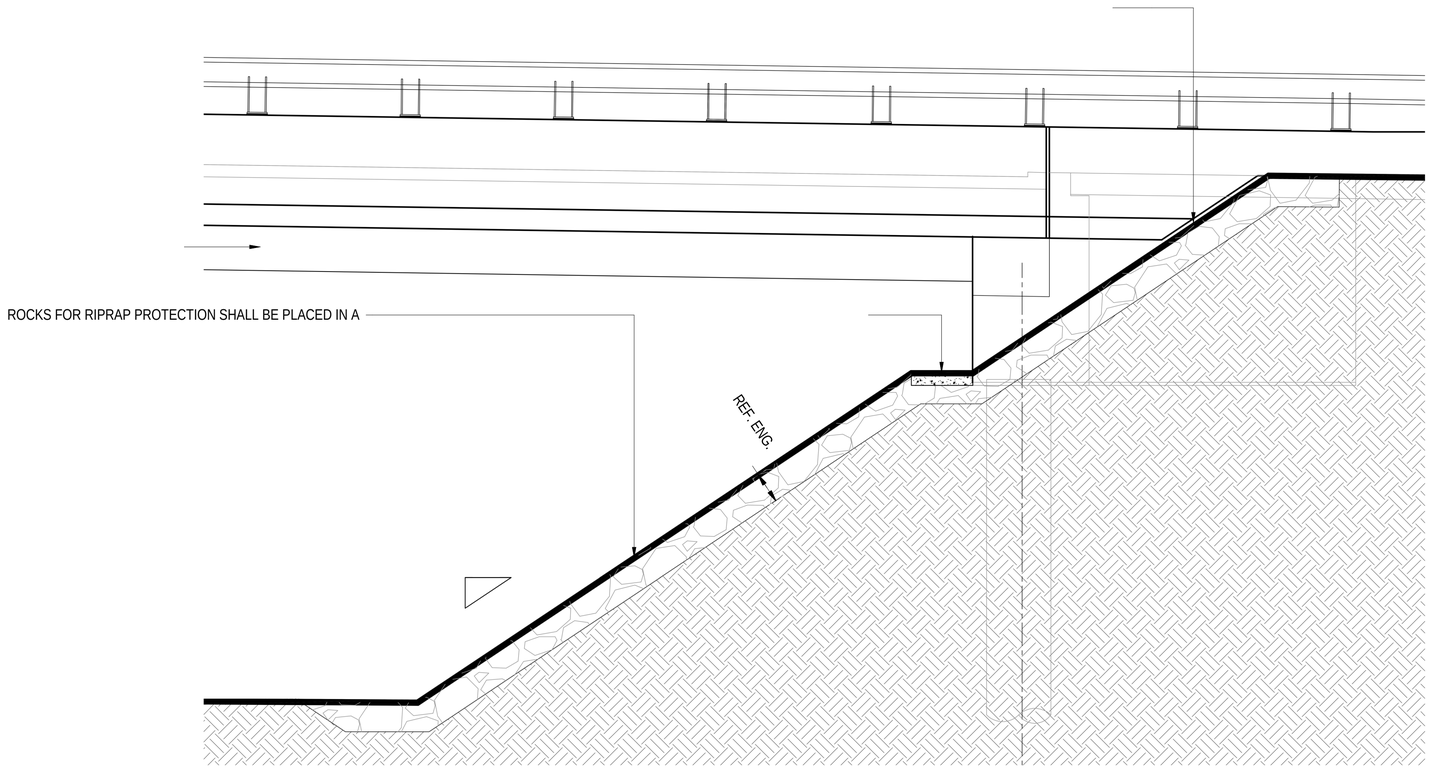
PLOT DATE & TIME: 9/16/2021 12:00:04 PM



TYPICAL SPILL THROUGH ABUTMENT
- RIPRAP OVER SPILL THROUGH
(CREEK BRIDGES)

1 : 100

1
609066

GENERAL ABUTMENT NOTES:
1. MAX SLOPE OF 1 IN 1.5 UNDER BRIDGE WITH TRANSITIONAL SLOPE CHANGE TO MAX 1 IN 2 TO ROADWAY EMBANKMENT

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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:100

1:100 @ A1 0 1 2 3 4 5 m

CLIENT:
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PREPARED FOR:
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WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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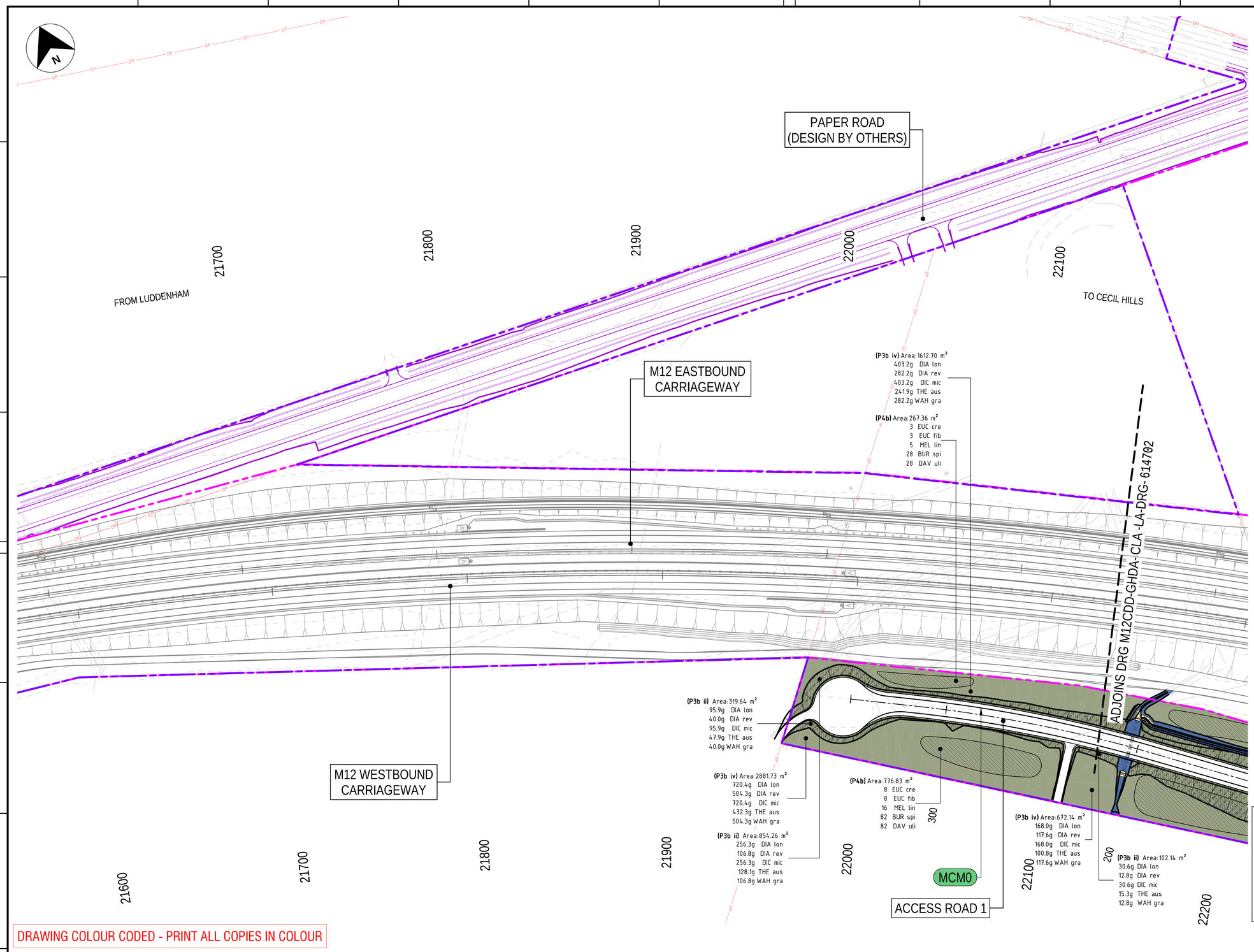
AR - LANDSCAPING

DRAWN	DYLAN ASTAWA	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

CENTRAL
MAIN ALIGNMENT
LANDSCAPE WORKS
INTERFACE DETAILS

FILE No. DS2020/000672 | PART 5 | SHEET: 10 OF 10 | A1
STATUS: ISSUED FOR TENDER ©
DRG No. M12CDD-GHDA-ALL-LA-DRG-609066 | REV | VER 0 | EDMS No. | AMD No.

BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 12:01:32 PM



GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX — DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- NEW DRAINAGE CULVERT WITH HEADWALLS
- CONCRETE SCOUR PROTECTION
- ROCK (RIP-RAP) SCOUR PROTECTION
- CAUSEWAY
- CHECK DAM
- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY - BLACK COATED
- FAUNA FENCE - WSPT

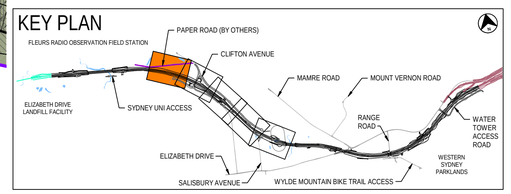
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
D	ISSUED FOR TENDER	S.M. 16.09.2021	L.A. 16.09.2021	M.E. 16.09.2021
C	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
B	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
A	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:1000

1:1000 @ A1 0 10 20 30 40 50 m

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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AR - LANDSCAPING

DRAWN	RANDIE MANUEL	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
CLIFTON AVENUE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 5 | A1
STATUS: ISSUED FOR TENDER ©

DRG No.	REV	VER	EDMS No.	AMD No.
M12CDD-GHDA-CLA-LA-DRG-614701	D	0		

BIM 360://12514239 - M12 Motorway/M12DDD-GHDA-MIL2-LA-M3D-000001.rvt
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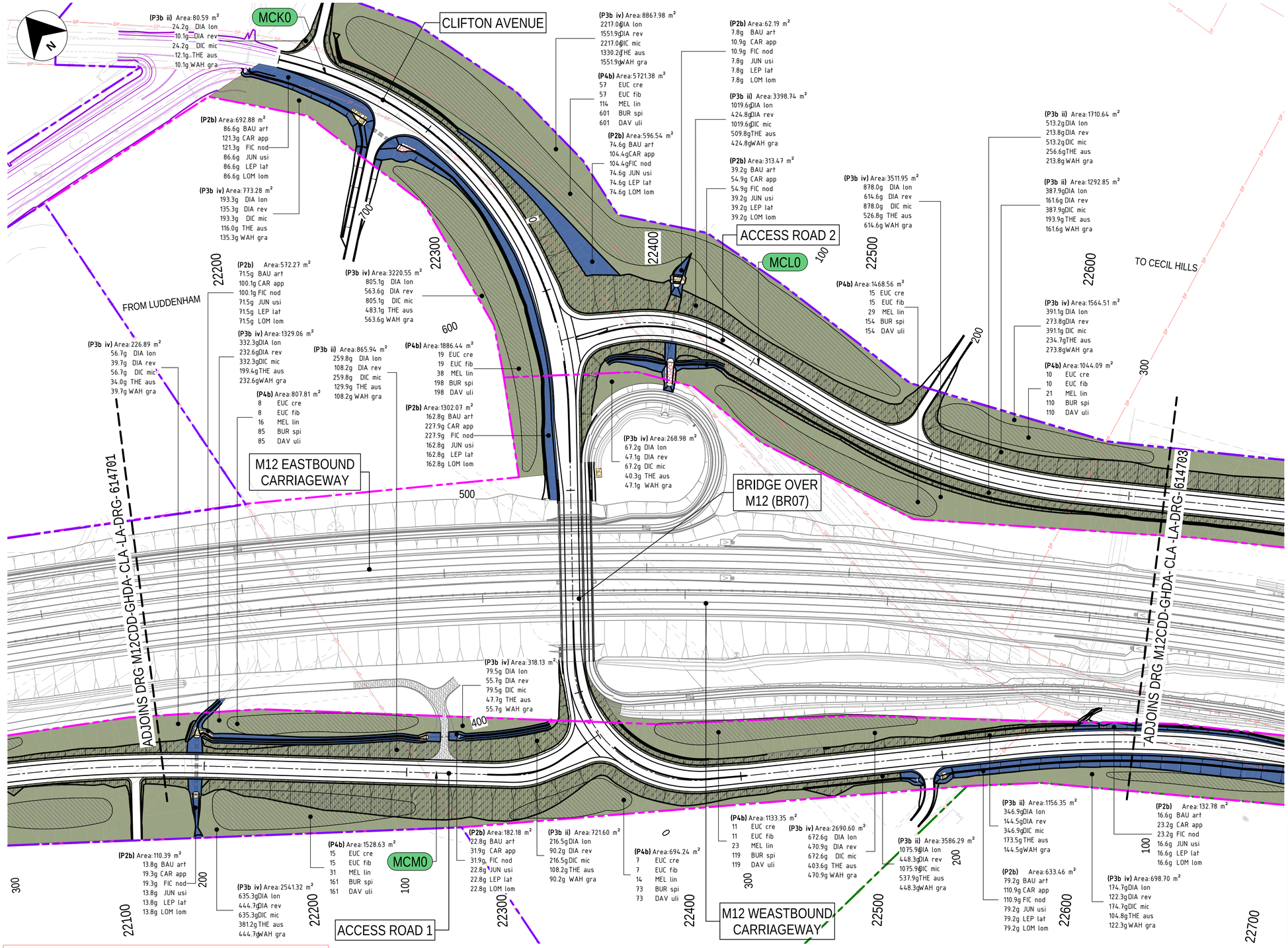


GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- NEW DRAINAGE CULVERT WITH HEADWALLS
- CONCRETE SCOUR PROTECTION
- ROCK (RIP-RAP) SCOUR PROTECTION
- CAUSEWAY
- CHECK DAM
- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY - BLACK COATED
- FAUNA FENCE - WSPT

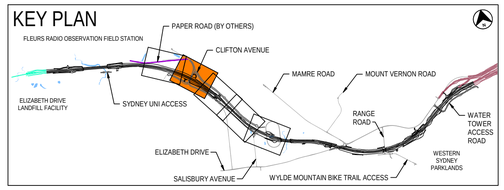
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
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C	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
B	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
A	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:1000

1:1000 @ A1 0 10 20 30 40 50 m

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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DRAWN	RANDIE MANUEL	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
CLIFTON AVENUE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

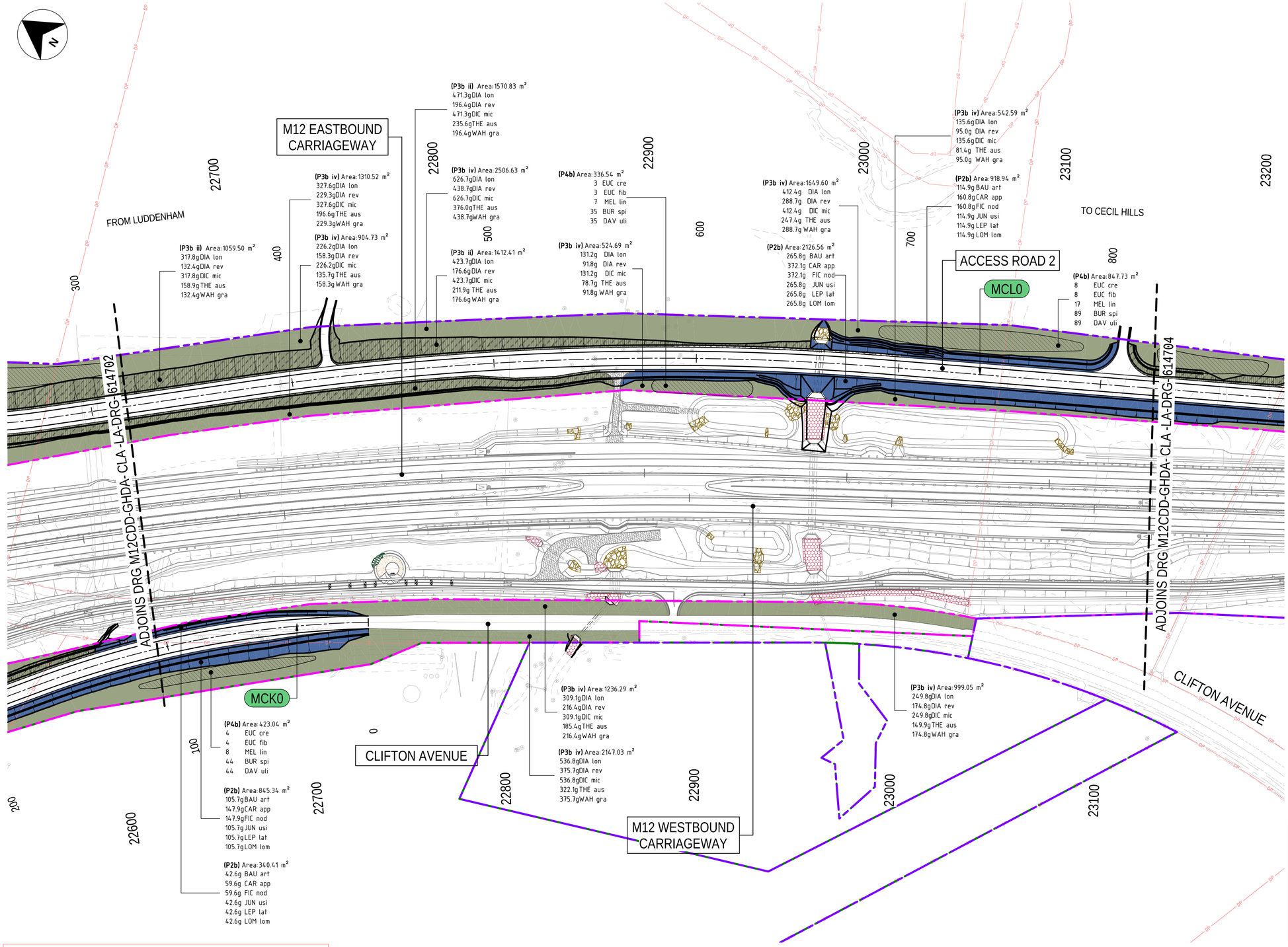
FILE No. DS2020/000672 | PART 5 | SHEET: 2 OF 5 | A1

STATUS: ISSUED FOR TENDER ©

DRG No. M12CDD-GHDA-CLA-LA-DRG-614702 | REV D | VER 0 | EDMS No. | AMD No.

BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt

PLOT DATE & TIME: 9/16/2021 12:44:46 PM



GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX — DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- NEW DRAINAGE CULVERT WITH HEADWALLS
- CONCRETE SCOUR PROTECTION
- ROCK (RIP-RAP) SCOUR PROTECTION
- CAUSEWAY
- CHECK DAM
- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY - BLACK COATED
- FAUNA FENCE - WSPT

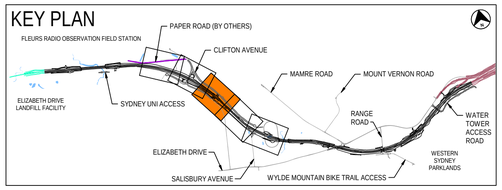
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
D	ISSUED FOR TENDER	S.M. 16.09.2021	L.A. 16.09.2021	M.E. 16.09.2021
C	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
B	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
A	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 — HEIGHT DATUM: AHD 71

SCALE: 1:1000

1:1000 @ A1 — 0 10 20 30 40 50 m

CLIENT: NSW GOVERNMENT — Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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AR - LANDSCAPING

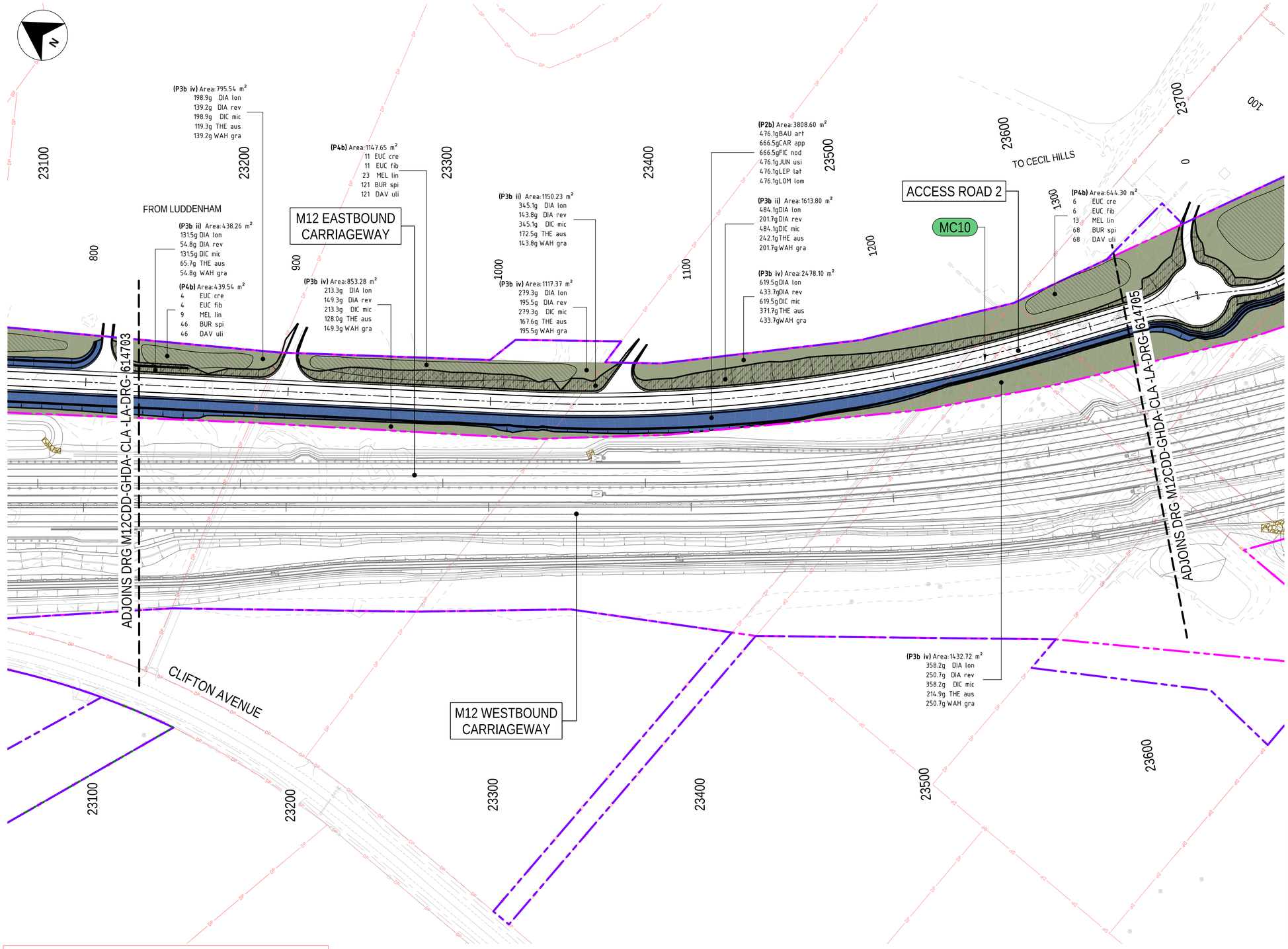
DRAWN	RANDIE MANUEL	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
CLIFTON AVENUE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

FILE No. DS2020/000672 — PART 5 — SHEET: 3 OF 5 — A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-CLA-LA-DRG-614703 — REV D — VER 0 — EDMS No. — AMD No.

BIM 360://12514239 - M12 Motorway/M12DDD-GHDA-MLL2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 12:45:47 PM



GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX — DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- NEW DRAINAGE CULVERT WITH HEADWALLS
- CONCRETE SCOUR PROTECTION
- ROCK (RIP-RAP) SCOUR PROTECTION
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- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY - BLACK COATED
- FAUNA FENCE - WSPT

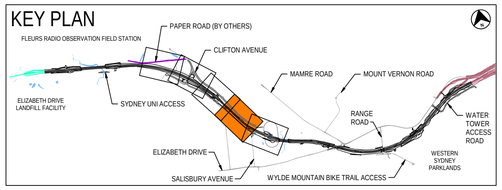
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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C	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
B	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
A	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 — GDA2020 — HEIGHT DATUM: AHD 71

SCALE: 1:1000

1:1000 @ A1 0 10 20 30 40 50 m

CLIENT: NSW GOVERNMENT — Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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AR - LANDSCAPING

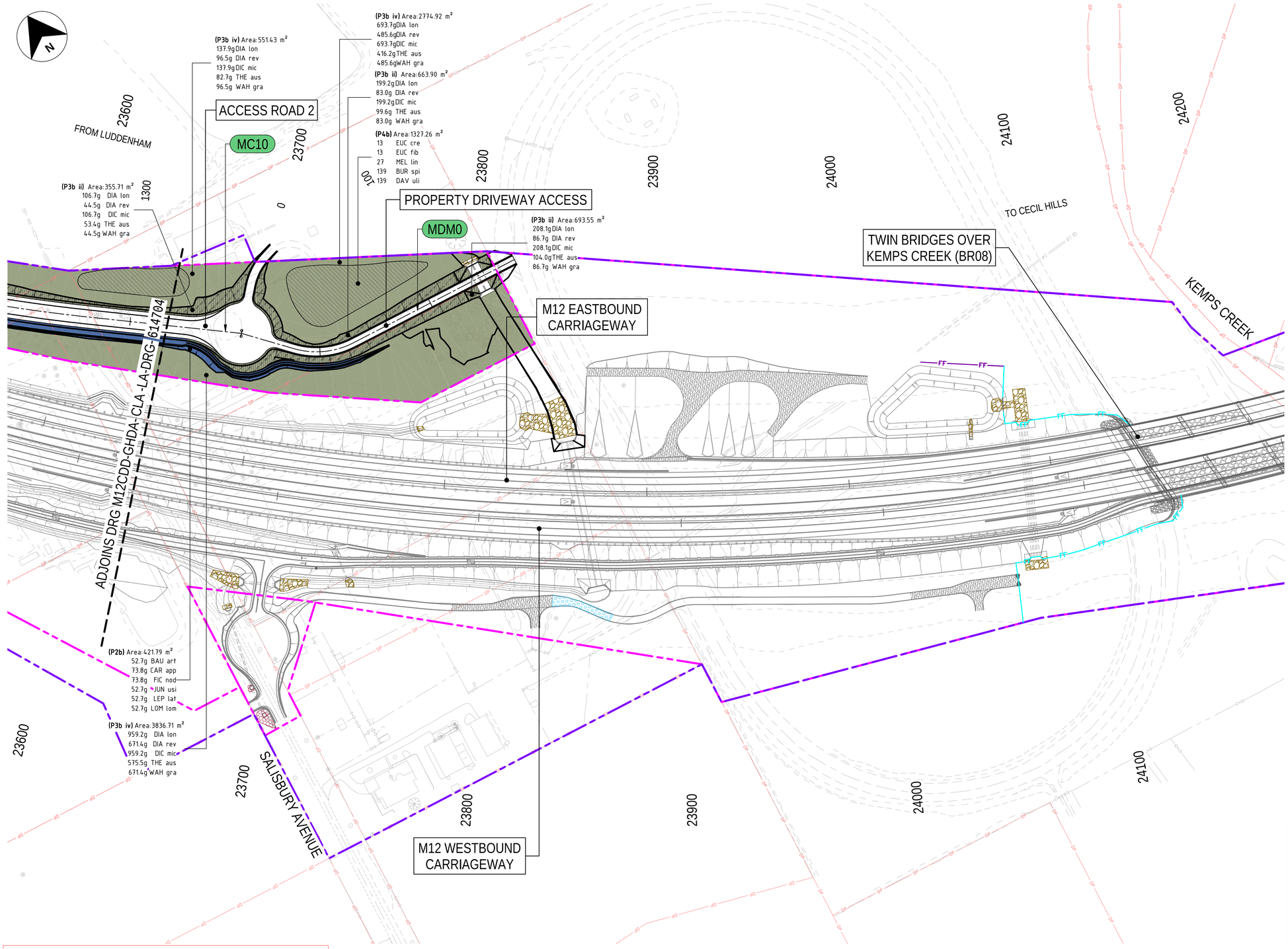
DRAWN	RANDIE MANUEL	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
CLIFTON AVENUE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

FILE No. DS2020/000672 | PART 5 | SHEET: 4 OF 5 | A1
STATUS: ISSUED FOR TENDER | ©
DRG No. M12CDD-GHDA-CLA-LA-DRG-614704 | REV D | VER 0 | EDMS No. | AMD No.

BIM 360://12514239 - M12 Motorway/M12CDD-GHDA-ML2-LA-M3D-000001.rvt
PLOT DATE & TIME: 9/16/2021 12:46:32 PM



GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
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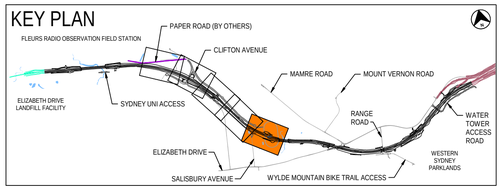
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:1000

1:1000 @ A1 0 10 20 30 40 50 m

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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M12 MOTORWAY

PACKAGE 2 - CENTRAL
CLIFTON AVENUE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

FILE No. DS2020/000672 | PART 5 | SHEET: 5 OF 5 | A1
STATUS: ISSUED FOR TENDER (C)

DRG No.	REV	VER	EDMS No.	AMD No.
M12CDD-GHDA-CLA-LA-DRG-614705	D	0		

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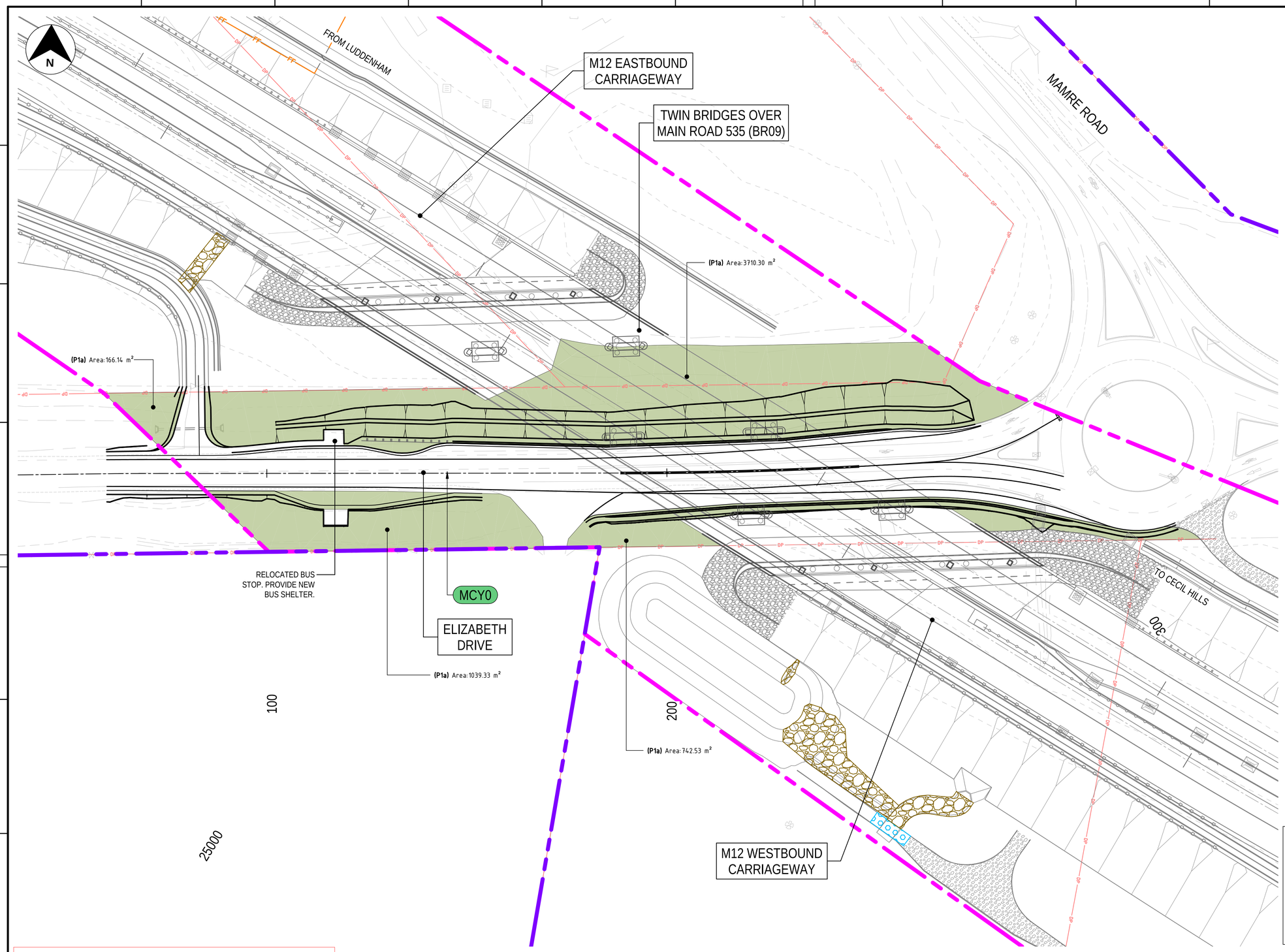


GDA 2020

LEGEND

- 19000 - CHAINAGES
- MCXX DESIGN CONTROL STRING LABEL
- TfNSW OPERATIONAL BOUNDARY
- EXCLUSION BOUNDARY
- CONSTRUCTION BOUNDARY
- CADASTRAL BOUNDARY
- STEEL RAIL SAFETY BARRIER
- FOUR STRAND WIRE ROPE SAFETY BARRIER
- NEW PEDESTRIAN FENCE
- NEW DRAINAGE CULVERT WITH HEADWALLS
- CONCRETE SCOUR PROTECTION
- ROCK (RIP-RAP) SCOUR PROTECTION
- CAUSEWAY
- CHECK DAM
- PRIMERSEAL WEARING COURSE
- 8km RADIUS BOUNDARY
- 3km RADIUS BOUNDARY
- VARIABLE SPEED LIMIT SIGN (VSLS)
- FAUNA EXCLUSION FENCE
- FAUNA EXCLUSION FENCE - BLACK COATED
- FAUNA EXCLUSION FENCE ON PROPERTY BOUNDARY - BLACK COATED
- FAUNA FENCE - WSPT

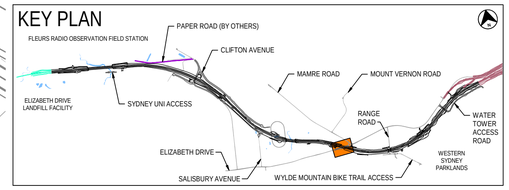
PLANTINGS

P1a	P3a ii	P3b iii	P4b	P5b i
P2a	P3a iii	P3b iv	P4c	P5b ii
P2b	P3a iv	P3c	P4d	P5c i
P2c	P3b i	P3d	P5a i	P5c ii
P3a i	P3b ii	P4a	P5a ii	BLADY GRASS

NOTES:

1. FOR LANDSCAPING LEGEND REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609006.
2. FOR LANDSCAPING GENERAL NOTES REFER TO DRG NO. M12CDD-GHDA-ALL-LA-DRG-609007.

KEY PLAN



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FOR TENDER

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
D	ISSUED FOR TENDER	S.M. 16.09.2021	L.A. 16.09.2021	M.E. 16.09.2021
C	ISSUED FOR TENDER	S.M. 30.07.2021	L.A. 30.07.2021	M.E. 30.07.2021
B	ISSUED FOR 100% DETAILED DESIGN	S.M. 30.06.2021	L.A. 30.06.2021	M.E. 30.06.2021
A	ISSUED FOR 80% DETAILED DESIGN	S.M. 12.02.2021	L.A. 12.02.2021	M.E. 12.02.2021

COORDINATE SYSTEM: GDA2020/MGA ZONE 56 GDA2020 HEIGHT DATUM: AHD 71

SCALE: 1:500

1:500 @ A1 0 5 10 15 20 25 m

CLIENT: NSW GOVERNMENT Transport for NSW

PREPARED FOR:
SYDNEY PROJECT DELIVERY
WESTERN SYDNEY PROJECT OFFICE
WESTERN SYDNEY PROGRAM 1-2

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GHD Pty Ltd
GHD
AR - LANDSCAPING

DRAWN	RANDIE MANUEL	16.09.2021
DESIGNED	SARAH MORGAN	16.09.2021
DRG CHECK	KATHY RANDELL	16.09.2021
DESIGN CHECK	LEE ALLEN	16.09.2021
APPROVED	MARK ELVIDGE	16.09.2021
PROJECT MNGR	ALEX HORTON	16.09.2021

M12 MOTORWAY

PACKAGE 2 - CENTRAL
ELIZABETH DRIVE
LANDSCAPE WORKS
GENERAL ARRANGEMENT
PLAN

FILE No. DS2020/000672 | PART 5 | SHEET: 1 OF 1 | A1
STATUS: ISSUED FOR TENDER (C)
DRG No. M12CDD-GHDA-EDR-LA-DRG-619301 | REV D | VER 0 | EDMS No. | AMD No.

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