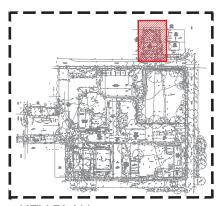




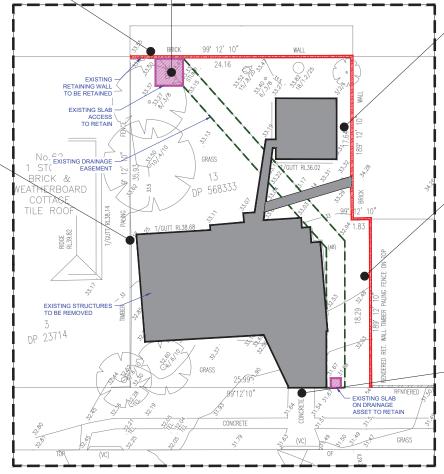
REPLACE EXITING FENCE, WITH 1.8M HIGH ACOUSTIC BARRIER



**KEY PLAN** SCALE - 1:2000



EXISTING CONDITION OF COUNCIL DRAINAGE ASSET TO BE RETAINED



EXISTING BRICK MASONRY ALONG
EASTERN BOUNDARY TO BE RETAINED AND REPAIRED FOR REUSE



EXISTING BRICK MASONRY ALONG EASTERN BOUNDARY TO BE RETAINED AND REPAIRED FOR REUSE



EXISTING DRIVEWAY AND EXISTING BUILDING, TO BE DEMOLISHED FOR PROPOSED DRIVEWAY AND HARDSTAND AREA

# **DEMOLITION & SITE MANAGEMENT PLAN**

SCALE - 1:150

DATE AMENDMENT CLIENT / BUILDER / ARCHITECT 00 08.10.2021 ISSUE FOR DISCUSSION 29.10.2021 ISSUE FOR DA 29.11.2021 ISSUE FOR DA 06.12.2021 ISSUE FOR DA





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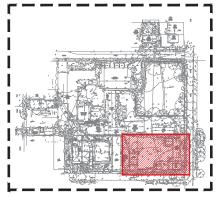
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DESIGNED:	PLAN-60 FEDERAL PARADE
HR	PROJECT:

PROPOSED CARPARK DESIGN ST AUGUSTINE'S COLLEGE FEDERAL PARADE, BROOKVALE NSW

06/12/2021 CPC 2760 C100

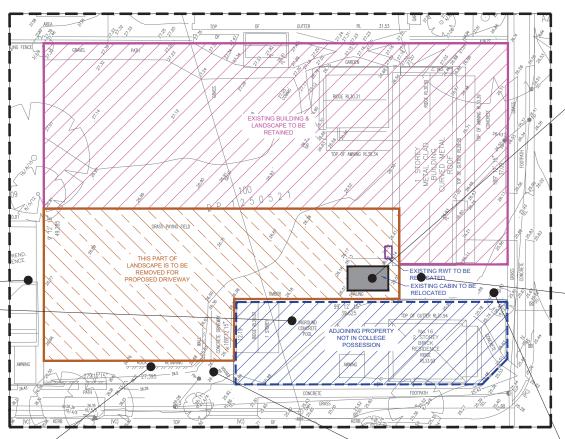


KEY PLAN SCALE - 1:2000





EXISTING ROCK RETAINING WALL ALONG SOUTHERN BOUNDARY TO BE REMOVED, FENCE TO BE RETAINED



**DEMOLITION & SITE MANAGEMENT PLAN** 

SCALE - 1:200



EXISTING HARDSTAND ALONG NEIGHBOURING PROPERTY TO BE DEMOLISHED AND GATE TO BE RELOCATED TO THE NEW EGRESS



EXISTING STRUCTURE TO BE RELOCATED

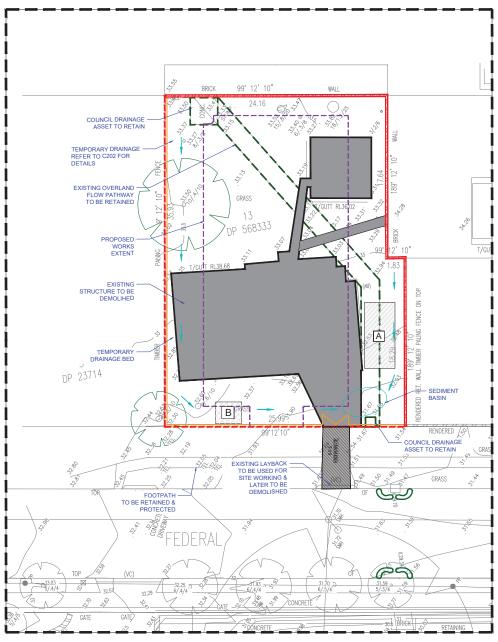


VIEW OF THE PASSAGE AND FENCE ALONG
THE EASTERN BOUNDARY FROM INSIDE



EXISTING SITE PASSAGE TO THE SOUTH OF COLLEGE BUILDING, LANDSCAPE TO BE REMOVED AND REPLANTED AS PER LANDSCAPE PLAN

ISSUE	DATE	AMENDMENT	CLIENT / BUILDER / ARCHITECT		CIVII			NORTH: S	SCALE:	VERIFIED:	DRAWING TITLE :	DATE:	SCALE:
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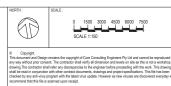


# SEDIMENTATION & EROSION CONTROL PLAN SCALE - 1:150

ISSUE DATE AMENDMENT CLIENT / BUILDER / ARCHITECT 00 08.10.2021 ISSUE FOR DISCUSSION 29.10.2021 ISSUE FOR DA 03 29.11.2021 ISSUE FOR DA 06.12.2021 ISSUE FOR DA







**LEGEND** 

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В

SITE

SEDIMENT FENCE BARRIER FENCE

TO BE DEMOLISHED

MATERIAL STORAGE

TOILET FACILITY

PROPOSED DEVELOPMENT EXISTING STRUCTURES

AC DESIGNED : HR RQ

SEC PLAN & DETAILS **60 FEDERAL PARADE** 

PROJECT No. CPC 2760 PROPOSED CARPARK DESIGN ST AUGUSTINE'S COLLEGE C200 FEDERAL PARADE, BROOKVALE NSW

TREE TO BE RETAINED

SANDBAGS

TREE TO BE REMOVED TEMPORARY DRAINAGE



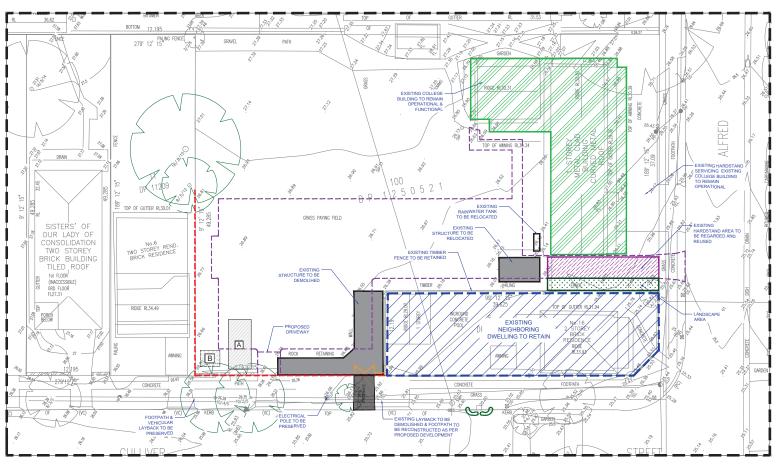
ASSET TO RETAIN



EXISTING WALL TO BE RETAINED

ISSUE FOR DA

06/12/2021



SEDIMENTATION & EROSION CONTROL PLAN

SCALE - 1:200

ISSUE FOR DA

**LEGEND** 

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SITE ENTRANCE SEDIMENT FENCE

PROPOSED DEVELOPMENT

EXISTING STRUCTURES TO BE DEMOLISHED

MATERIAL STORAGE

TOILET FACILITY

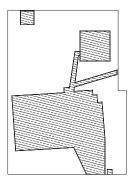
TREE TO BE RETAINED

TREE TO BE REMOVED

SANDBAGS

BARRIER FENCE







PRE DEVELOPMENT PAVED AREA

SITE AREA	901.53 m <sup>2</sup> (AS PER CAD)
IMPERVIOUS AREA	342.52 m <sup>2</sup> (37.99%)
PERVIOUS AREA	559.01 m² (62.01%)

# POST DEVELOPMENT PAVED AREA

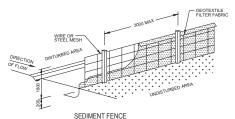
SANDBAGS OVERLAP ONTO KER

GAP BETWEEN BAGS ACT AS SPILLWAY.

901.53 m <sup>2</sup> (AS PER CAD)
515.18m <sup>2</sup> (57.14%)
386.35 m² (42.86%)

# CATCHMENTS ANALYSIS

AS PER CATCHMENT ANALYSIS OF PRE AND POST DEVELOPMENT IT IS EVALUATED THAT THERE IS 19.15% INCREASE IN THE IMPERVIOUS AREA. THE SITE HAS A EXISTING DWELLING WITH AN OUTBUILDING WHICH WILL BE DEMOLISHED. DUE TO THIS INCREASE IN IMPERVIOUS AREA STORMWATER MANAGEMENT IS PROPOSED IN ACCORDANCE WITH COUNCIL DCP.



## SEDIMENT FENCE

- TO BE USED AS A TEMPORARY BARRIER TO INTERCEPT SEDIMENT LADEN RUN-OFF FROM SMALL DRANNAGE AREAS MAXIMUM DRANNAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 0.8% PER LINE OF FENCE DO NOT USE IF CONCENTRATED FLOW IS DIRECTED TO SILT FENCE MAXIMUM ALL OWART ENTSTANDE PROTWERN THE TEMPORATION FOR THE PROMET OF THE PROPERTY OF THE PROMET OF T

4.		DES LISTED BELOW:
	SLOPE V:H	MAX. SLOPE LENGTH (m)

SLOPE V:H	MAX. SLOPE
1:2	15
1:3	25
1:4	40
1:5	50
FLATTER THAN 1:5	60

# **EROSION CONTROL MEASURES**

- ALL EROSION AND SEDIMENT CONTROL MEASURES, (INCLUDING RE-VEGETATION AND STORAGE OF SOIL AND TOP SOIL, SHALL BE IMPLEMENTED TO THE DEPARTMENT OF CONSERVATION OF NEW SOUTH WALES STANDARDS.
- 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED. SHALL BE STOCK PILED AND LATER RESPIRED TO A ID VEGETATION AS SHOWN IN C102 3. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE

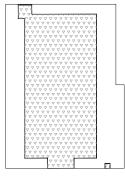
- DURING DEVELOPMENT.

  4. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND ALL PITS.

  5. DISTURBANCE TO VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRANAGE LINES. AREAS OTHER THAN SPECIFIED SHALL BE DISTURBED ONLY WITH PRIOR APPROVAL FROM THE COUNCIL ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE
- ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A
- MAXIMUM OF 60% FULL OF SOLID MATERIALS, INCLUDING DURING MAINTENANCE PERIOD.

  8. A STRIP OF TURP BEHIND AND FOR TOTAL LENGTH OF ALT THE KERBS SHALL BE PROVIDED.

  9. PIT GUARDS SHALL BE INSTALLED AROUND DRAINAGE PITS AT THE COMPLETION OF ROAD.





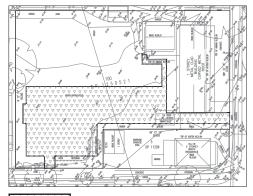
SITE AREA	901.53 m <sup>2</sup> (AS PER CAD)
IMPERVIOUS AREA	515.18m <sup>2</sup> (57.14%)
PERVIOUS AREA	386.35 m² (42.86%)



PRE DEVELOPMENT PAVED AREA

TOP OF GUTTER BLICK No.16 2 STOREY BRICK

SITE AREA	926.69 m² (AS PER CAD)
IMPERVIOUS AREA	171.04 m² (18.45%)
PERVIOUS AREA	755.65 m² (81.55%)

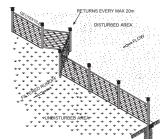




SITE AREA	926.96 m² (AS PER CAD)
IMPERVIOUS AREA	841.02m <sup>2</sup> (90.73%)
PERVIOUS AREA	85.94 m² (09.27%)

# CATCHMENTS ANALYSIS

AS PER CATCHMENT ANALYSIS OF PRE AND POST DEVELOPMENT IT IS EVALUATED THAT THERE IS 72.28% INCREASE IN THE IMPERVIOUS AREA. BEFORE DEVELOPMENT THE MAJORITY OF THE AREA WAS A PART OF LANDSCAPE AREA. DUE TO THIS INCREASE IN IMPERVIOUS AREA STORMWATER MANAGEMENT IS PROPOSED IN ACCORDANCE WITH COUNCIL DCP.



SEDIMENT FENCE ISOMETRIC

# EARTH WET BASIN (EARTH BANK)

THREE LAYERS OF SANDBAGS WITH ENDS OVERLAPPED.

SANDBAG KERB INLET SEDIMENT TRAP

- REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
  CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE
- CONSTRUCT A CUT-OFF TRENCH SOMM DEEP AND 1200MM WIDE ALONG THE CENTERLINE OF THE EMBANMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RIBER CREST.

  WITH THE RIBER CREST.

  SECONDARY THE RIBER CREST AND RE-COMPACT THE MATERIALS WITH EQUIPMENT AS PECIFIED IN THE WIWNIP TO-985 STANDARD PROCTOR DESISTY.

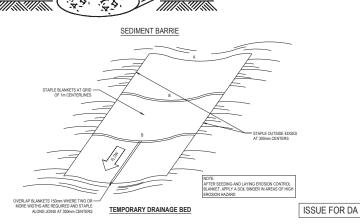
  SELECT FILL FOLLOWING THE SWIMP THAT IS FREE ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN AND THE SWIMP THAT IS FREE ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN AND THE SWIMP THAT IS FREE ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN AND THE SWIMP THAT IS FREE ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN THE SWIMP.

  COMPACTED FILL TO EXISTING SUBSTRATE.

  SPREAD THE FILL NOOME TO SHORM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONSTRUCT THE SWIMP.

  CONSTRUCT THE LEMERGING OF SILLIANS.

- REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.



# SEDIMENT CONTROL DEVICES

- . IF SILT FENCE IS NOT USED HAY BALES CAN BE USED FOR SURFACE INLET PIT PROTECTION ALL HAY BALES SHALL BE BOUND WITH WIRE. HAY BALES SHALL BE PLACED END TO END IN A SINGLE ROLE AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALES SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 600mm INTO THE GROUND AND LOCATED ON THE BALE CENTERLINE.
- LOCATED ON THE BALE CENTERLINE.

  2. FILTER FENDE SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 3m CENTERS MAXIMUM. FABRIC SHALL BE BURIED INTO THE GROUND ZOOMM ALONG ITS LOWER EDG.

# TEMPORARY SITE CONTROL FOR ENTRY / EXIT **AREAS**

- . THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS. PERIODIC TOP DRESSING WITH ADDITIONAL AGGREGATE MAY BE REQUIRED TO KEEP THE
- SITE CONTROL IN A 'USEABLE STATE' 3. ALL SEDIMENT SPILLED, DROPPED OR WASHED ONTO PUBLIC ROADS MUST BE REMOVED
- IMMEDIATELY AND CHECKED DAILY.
  4. REMOVAL AND CLEANING OF PUBLIC ROADS BY BROOMS AND SHOVELS ETC.. WASHING

AMENDMENT CLIENT / BUILDER / ARCHITECT 00 08.10.2021 ISSUE FOR DISCUSSION 29.10.2021 03 29.11.2021 ISSUE FOR DA 06.12.2021 ISSUE FOR DA









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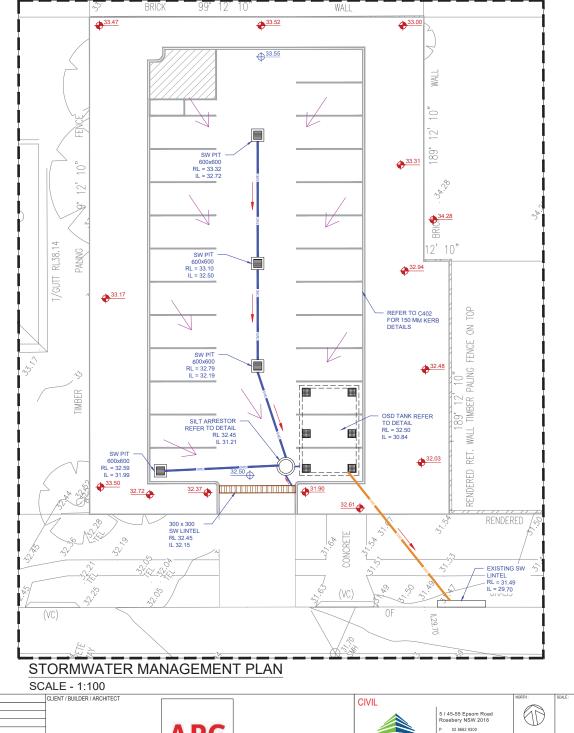
AREA ANALYSIS & SEC DETAILS PROPOSED CARPARK DESIGN ST AUGUSTINE'S COLLEGE

06/12/2021 CPC 2760

C202

BLUE METAL WRAPPED IN GEOTEXTILE FABRIC

FEDERAL PARADE, BROOKVALE NSW



# **LEGENDS**

\_\_\_\_SWD\_\_\_\_

STORM WATER \_\_\_\_ SWD \_\_\_\_ DRAIN LINE (Ø150)

Ø 225 UPVC PIPE

FLOW DIRECTION





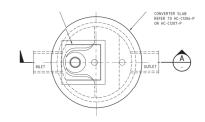
**EXISTING LEVELS** 

PROPOSED LEVELS

OVERLAND FLOW



HUMECEPTOR STC 2 (INLET) MODEL PROPOSED SILT ARRESTOR



NOTE:

**PLAN VIEW** 

REFER TO LANDSCAPE PLAN FOR ASSOCIATED PLANTATION AND RELATED INFORMATION

FEDERAL PARADE, BROOKVALE NSW

ISSUE DATE AMENDMENT 00 08.10.2021 ISSUE FOR DISCUSSION 29.10.2021 ISSUE FOR DA 03 29.11.2021 ISSUE FOR DA 06.12.2021 ISSUE FOR DA

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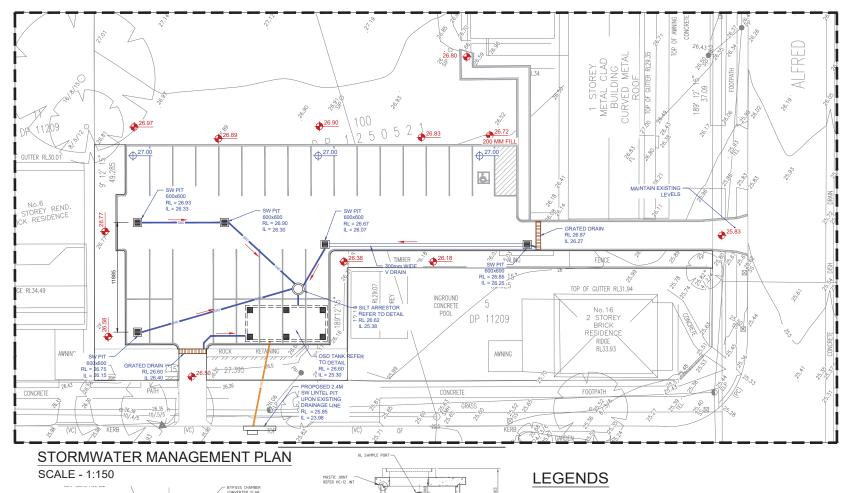
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HUMECEPTOR STC 2 (INLET) MODEL PROPOSED SILT ARRESTOR

# NOTE:

15.10.2021

06.12.2021

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DATE AMENDMENT

00 08.10.2021 ISSUE FOR DISCUSSION

29.10.2021 ISSUE FOR DA

29.11.2021 ISSUE FOR DA

CONCEPT PROVIDED FOR ILLUSTRATION DETAIL DECOMENTATION.

ISSUE FOR DISCUSSION

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# BYPASS CHAMBER CONVERTER SLAB REFER TO HC-C1206-F OR HC-C1207-P EPOXY JOINT BY INSTALLATION CONTRACTOR EPOXY SUPPLIED BY HUMES TREATMENT CHAMBER TREATMENT CHAMBER BASE UNIT REFER TO HC-TCB12-P **PLAN VIEW** NOTE: STANDARD DROP INLET TO DUTLET IS 76mm

# NOTE:

THE PRODUCT SPECIFICATIONS ARE AS PER MANUFACTURER / PROVIDER INFORMATION

STORM WATER SWD DRAIN LINE (Ø150) Ø 225 UPVC PIPE SWD FLOW DIRECTION

SILT ARRESTOR

SW PITS

LAWN / LANDSCAPE

PROPOSED LEVELS

# NOTE:

- TO AVOID EXCESSIVE CUT & FILL EXISTING LANDSCAPE LEVEL ARE NOT DISTURBED AND PROPOSED TO BE REMAINED AS IT IS. REFER TO LANDSCAPE LEVELS TO BE CONFIRMED BY LANDSCAPE CONSULTANT.
- THE ENTRANCE ARE FROM ALFRED AREA NEEDS TO HAVE A RAISED RAMP OF 5% GRADE. LANDSCAPE LEVEL ALONG THE ENTRY RAMP CAN BE RAISED TO SUIT THE PROPOSED RAMP. FURTHER RETAINING WALL CAN ALSO BE PROPOSED IF DEPTH IS MORE THAT 250MM.

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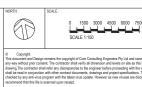
**SECTION A-A** 

CLIENT / BUILDER / ARCHITECT





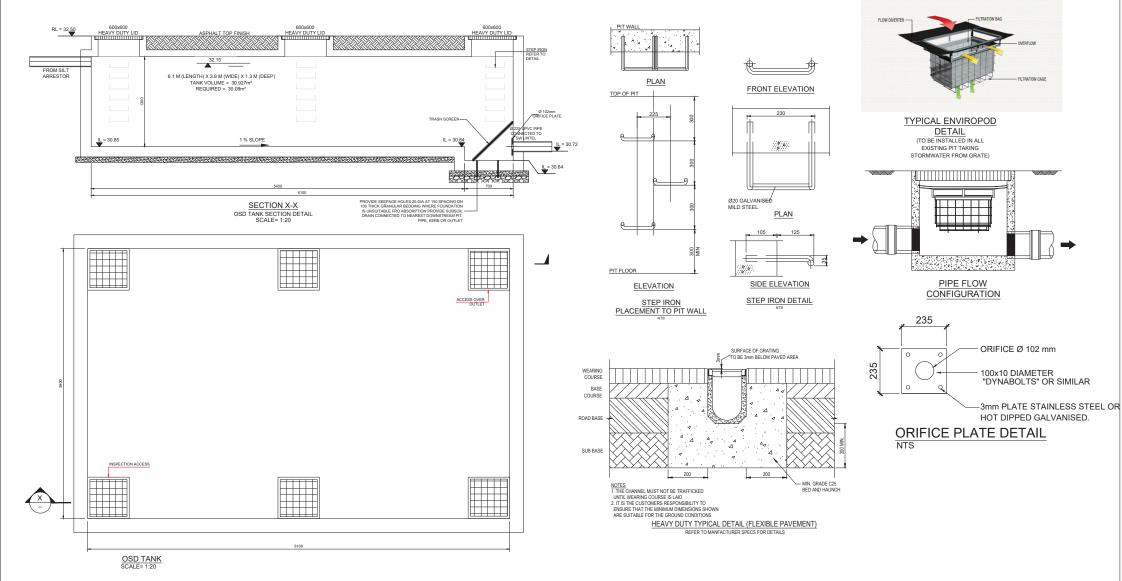




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STORMWATER MANAGEMENT PLAN ALFRED ROAD
PROJECT: DPODOSED CARDARK DESIGN

PROJECT No. CPC 2760 ST AUGUSTINE'S COLLEGE C301 EDERAL PARADE, BROOKVALE NSW



# **ORIFICE PLATE NOTES**

- 1. HOLE IN ORIFICE PLATE TO BE PRECISION CUT WITH SHARP EDGES TO THE SPECIFIED DIAMETER.
- 2. ORIFICE PLATE TO BE PLACED CENTRALLY OVER THE OUTLET PIPE.
- 3. ORIFICE PLATE TO BE MADE FROM STAINLESS STEEL HOT DIPPED GALVANIZED OR OTHERS NOT ACCEPTABLE.
- 4. OUTLET PIPE TO BE CAST INTO THE WALL OF THE PIT.
- 5. HOLE IN THE PLATE TO BE CENTRALLY PLACED.

# ON SITE DETENTION NOTE:

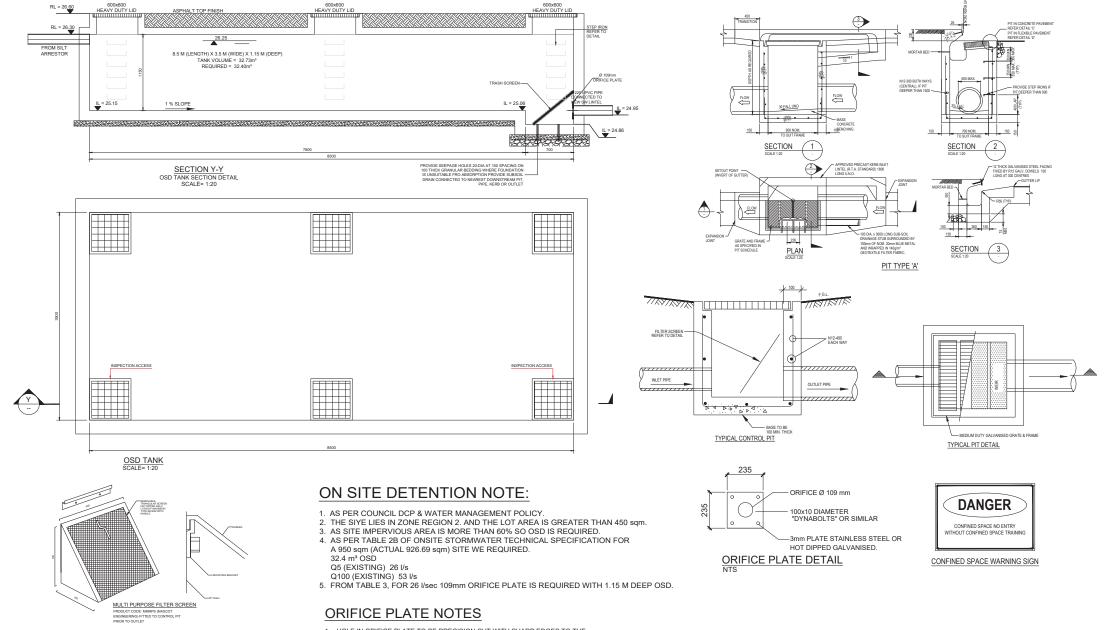
- 1. AS PER COUNCIL DCP & WATER MANAGEMENT POLICY.
- 2. THE SITE LIES IN ZONE REGION 2. AND THE LOT AREA IS GREATER THAN 450 sqm.
- 3. AS SITE IMPERVIOUS AREA IS MORE THAN 40% SO OSD IS REQUIRED.
- AS PER TABLE 2B OF ONSITE STORMWATER TECHNICAL SPECIFICATION FOR A 900 sqm SITE WE REQUIRED. 30.8 m³ OSD
  - Q5 (EXISTING) 25 l/s Q100 (EXISTING) 49 l/s
- 5. FROM TABLE 3, FOR 25 I/sec 102mm ORIFICE PLATE IS REQUIRED WITH 1.3 M DEEP OSD.

# **IMPORTANT NOTE:**

INTERMEDIATE ACCESS IS PROVIDED BECAUSE THE LENGTH OF OSD IS GREATER THAN 3M.

THE DRAIN DEATIL IS SHOWN INDICATIVELY. MINIMUM 300 WIDE GRATE IS PROPOSED TO INTAKE SURFACE RUN OFF, FURTHER REFER TO MANUFACTURER SPECS FOR DETAILS.

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# TRASH SCREEN NOTES:

- MAXIMUM SCREENS MUST BE PLACED SUCH THAT THE LONG AXIS OF THE OVAL SHAPED HOLES ARE ORIENTATED HORIZONTALLY WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING TOWARDS THE OUTLET.
- THE SCREEN IS TO BE FORMED BY WELDING TWO TRIANGULAR MAXIMESH (OR EQUIVALENT)
   PANELS TO A RECTANGULAR FRONT MAXIMESH PANEL (OR EQUIVALENT)
- 1. HOLE IN ORIFICE PLATE TO BE PRECISION CUT WITH SHARP EDGES TO THE SPECIFIED DIAMETER.
- 2. ORIFICE PLATE TO BE PLACED CENTRALLY OVER THE OUTLET PIPE.
- 3. ORIFICE PLATE TO BE MADE FROM STAINLESS STEEL HOT DIPPED GALVANIZED OR OTHERS NOT ACCEPTABLE.
- OUTLET PIPE TO BE CAST INTO THE WALL OF THE PIT.
  HOLE IN THE PLATE TO BE CENTRALLY PLACED.

# **IMPORTANT NOTE:**

INTERMEDIATE ACCESS IS PROVIDED BECAUSE THE LENGTH OF OSD IS GREATER THAN 3M

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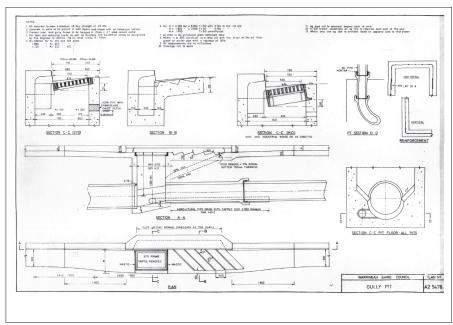
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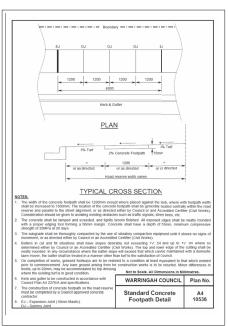


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			LID		CPC 2760	04
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# WARRINGAH SHIRE COUNCIL GULLY PIT

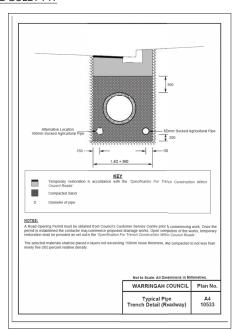




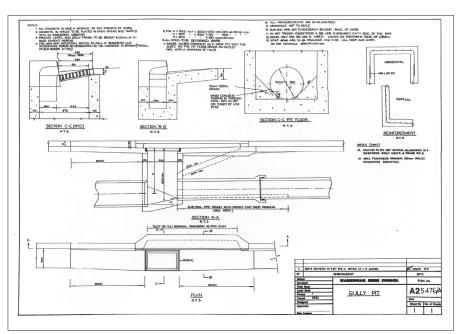
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TYPICAL PIPE TRENCH DETAIL (ROAD WAY)

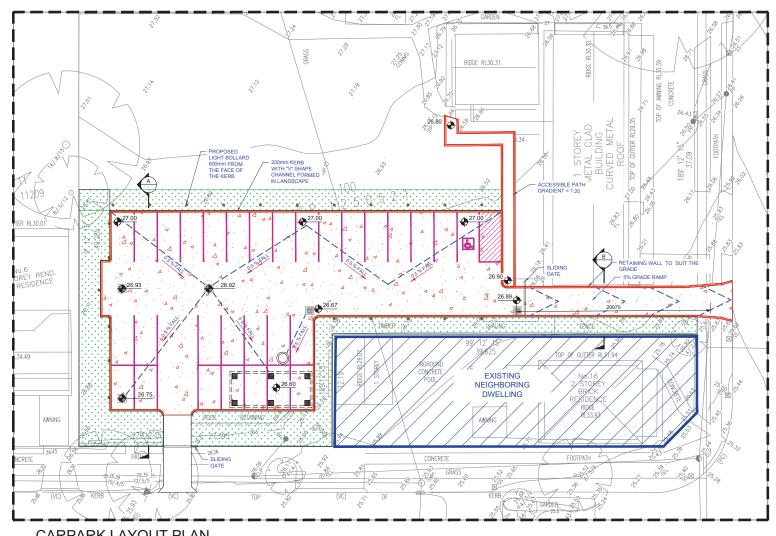


WARRINGAH SHIRE COUNCIL GULLY PIT

# NOTES: THESE DETAILS ARE TAKEN FROM COUNCIL WEBSITE & SNIPPED FOR REFERENCE & COPYRIGHT ISSUE.

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# CARPARK LAYOUT PLAN SCALE - 1:150



03

29.11.2021 ISSUE FOR DA

06.12.2021 ISSUE FOR DA

**SECTION B-B** SCALE - 1:40

# FRONT BOUNDARY

**SECTION A-A** SCALE - 1:40

# **LEGEND**



PROPOSED HARDSTAND AREA - REFER TO PAVEMENT SPECIFICATION PROPOSED BELOW.



INDICATIVE LANDSCAPE AREA REFER TO LANDSCAPE PLAN

# NOTE:

THIS CAR PARK IS PROPOSED AS PER ADVISE OF THE TRAFFIC CONSULTANT. REFER TO TRAFFIC ENGINEER REPORT & EVALUATION.

THE SECTIONS DRAWN ARE TO UNDERSTAND THE INTEGRATION OF HARDSTAND AND ADJACENT LANDSCAPE AREA, BOUNDARY IS DRAWN INDICATIVELY, REFER TO LANDSCAPE PLAN FOR DETAIL. ISSUE FOR DA

ISSUE DATE AMENDMENT CLIENT / BUILDER / ARCHITECT 00 08.10.2021 ISSUE FOR DISCUSSION 15.10.2021 ISSUE FOR DISCUSSION 29.10.2021 ISSUE FOR DA





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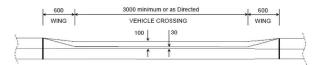
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06/12/2021 PROJECT No. PROPOSED CARPARK DESIGN ST AUGUSTINE'S COLLEGE FEDERAL PARADE, BROOKVALE NSW

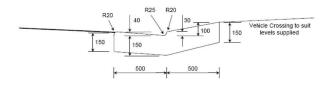
CPC 2760 C401



# **PLAN**



# FRONT ELEVATION



 Layback and gutter shall be poured in PLAIN CONCRETE and finished with a steel trowel. Minimum compressive strength of concrete shall be 25MPa at 28 days. Industrial/commercial properties shall increase the depth of concrete to 180mm and provide SL82 mesh with 30mm tor cover.

TYPICAL CROSS SECTION

- 2. The subgrade shall be thoroughly compacted by the use of vibratory compaction equipment until it shows no signs of movement, or as directed by Council.
- 3. Vehicle crossing to be constructed in accordance with levels and specifications issued by Council
- 4. Kerbing to be constructed in accordance with Council Plan A4 2276/A and specifications.
- 5. Where Council or an Accredited Certifler (Civil Woks) directs that the gutter be retained, the contractor shall place a 75mm deep saw cut in the gutter invert and remove kerb and/or layback.

CLIENT / BUILDER / ARCHITECT

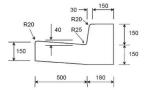
6. Where Council or an Acciedited Certifier (Civil Woks) directs that the gutter be removed, a Road Opening Permit must be obtained from Council's Customer Service Centre prior to commencing work. Once the permit is established the contactor may commence vehicle crossing works. Upon completion of the works, temporary restoration shall be provided as set out in the 'Specification'
Not to Scale. All Dimensions in Millimetres.

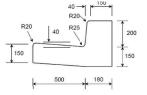
The construction of all vehicle crossings and associated works on the road reserve must be

completed by a Council approved concrete contractor. EJ - Expansion Joint - 10mm Mastic.

THIS DRAWING & DETAILS ARE TAKEN FORM COUNCIL DRAWING No. A4 2276/B

For Trench Construction Within Council Roads'.





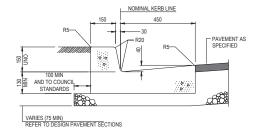
# 150mm KERB & GUTTER

# 200mm KERB & GUTTER

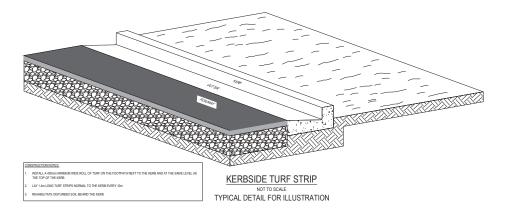
#### NOTES:

- 1. Kerb and gutter shall be poured in PLAIN CONCRETE and finished with a steel trowel. Minimum compressive strength of concrete shall be 25MPa at 28 days.
- 2. The subgrade shall be thoroughly compacted by the use of vibratory compaction equipment until it shows no signs of movement, or as directed by Council.
- Where Council or an Accredited Certifier (Civil Woks) directs that the gutter be retained, the contractor shall place a 75mm deep saw cut in the gutter invert and remove kerb and/or layback.
- Where Council or an Accredited Certifler (Civil Woks) directs that the gutter be removed, a Road Opening Permit must be obtained from Council's Customer Service Centre prior to commencing work. Once the permit is established the contactor may commence vehicle crossing works. Upon completion of the works, temporary restoration shall be provided as set out in the 'Specification For Trench Construction Within Council Roads'.
- The construction of all vehicle crossings and associated works on the road reserve must be completed by a Council approved concrete contractor.

THIS DRAWING & DETAILS ARE TAKEN FORM COUNCIL DRAWING No. A4 2276/A



KERB & GUTTER (KG) NTS



## FORMWORK

THE FORMS SHALL BE ALIGNED TRUE TO GRADE AND WITH OUT IRREGULARITIES. THE TOLERANCE SHALL BE ±15mm PROVIDED THAT VARIATIONS IN LEVELS ARE NOT LOCAL AND ORE OVER LENGTH OF 3

FORMS SHALL BE CONSTRUCTED SO THAT THEY CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND SHALL BE ADEQUATELY BRACED. THE INNER SURFACE OF FORMS SHALL BE ADEQUATELY OILED TO ENSURE THE NON-ADHESION OF THE CONCRETE. THE MATERIAL USED FOR FORMS FOR THE EXPOSED SURFACES SHALL BE DRESSED SOFT WOOF TIMBER.

TIMBER PEGS OF 50mm x 50mm-DIMENSION MINIMUM MUST BE PROVIDED FOR THE SUPPORT OF ALL FORMWORK. THE USE OF STEEL PEGS FOR THE SUPPORT OF FORMWORK IS PROHIBITED.

#### MATERIALS

READY MIXED CONCRETE SHALL CONFORM TO THE PROVISIONS OF AS 1379 - 2007 " READY MIXED CONCRETE'

THE MINIMUM COMPRESSIVE STRENGTH Fc OF THE CONCRETE SHALL BE 25 MPa AT 28 DAYS IN ACCORDANCE WITH AS 3600 - 2009 " CONCRETE STRUCTURES"

FOR HAND PLACED KERB AND GUTTER EXPANSION JOINT 10mm THICK FOR THE FULL DEPTH OF THE KERB AND GUTTER SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 6m

FOR MACHINE PLACED KERB AND GUTTER, EXPANSION JOINTS 6mm THICK SHALL BE PROVIDED AT INTERVALS OF 6m AND CONSTRUCTION JOINTS SHALL BE FORMED EVERY 3m FOR THE FULL DEPTH OF

JOINTS ARE ALSO REQUIRED WHERE THE GUTTER ABUTS GULLY PITS AND GUTTER CROSSINGS. EXPANSION JOINTS SHALL CONSIST OF PERFORMED JOINTING MATERIAL BITUMINOUS FIBERBOARD.

#### TOLERANCE

TOLERANCE ON THE LEVEL OF KERR AND GLITTER CONSTRUCTION BOTH HORIZONTAL AND VERTICAL SHALL BE PLUS OR MINUS 10mm.

#### KERB AND GUTTER

THECONSTRUCTION OF CONCRETE KERB AND GUTTER IS TO BE IN ACCORDANCE WITH AS 2876 - 2000 \*CONCRETE KERBS AND CHANNELS (GUTTERS) - MANUALLY OR MACHINE PLACED \* UNLESS OTHERWISE INDICATED BELOW.

#### KERB AND GUTTER DETAIL

KERB AND GUTTER SHALL BE IN ACCORDANCE WITH COUNCIL DRAWING NUMBER A4 2267/A/

DESIGN PLAN ARE TO BE PREPARED BY THE APPLICANT AND APPROVED BY THE COUNCIL PRIOR TO CONSTRUCTION.

- GENERALLY THE FOLLOWING CRITERIA SHOULD MET PREPARING A DESIGN OF KERB AND GUTTER.
- a. A MINIMUM LONGITUDINAL GRADE OF 1% IS REQUIRED.
  b. THE CROSS FALL FROM THE EDGE OF THE EXISTING PAVEMENT SHOULD GENERALLY BE 3%. c. RECONSTRUCTION OF EXISTING KERB AND GUTTER MAY BE REQUIRED TO ENSURE THAT A SATISFACTORY CONNECTION IS PROVIDED.

## PLACING CONCRETE

THE CONCRETE SHALL BE PLACED SO AS TO AVOID SEGREGATION AND SHALL BE ADEQUATELY COMPACTED. CARE SHALL BE TAKEN TO FILL EVERY PART OF THE FORMS AND TO WORK TO COARSER AGGREGATE BACK FROM THE FACE. EXPOSED SURFACES SHALL BE FINISHED WITH A STEEL FLOAT, AND CORNERS AND EDGES SHALL BE NEATLY ROUNDED WITH A NOISING TOOL. CONCRETE SHALL NOT BE DISTURBED AFTER IT HAS BEEN IN THE FORMS FOR TWENTY (20) MINUTES.

# FINISH

AFTER REMOVAL OF THE FORMS, MINOR OR POROUS SECTIONS OR HOLES SHALL BE REPAIRED WITH A 3 TO 1 SAND AND CEMENT MORTAR MIX. THE EXPOSED SURFACES SHALL THEN BE RUBBED WITH A WOODEN FLOAT AND CLEAN WATER TO LEAVE THE SURFACES SMOOTH AND UNIFORM IN COLOR AND APPEARANCE.

## BACKFILLING

AFTER REMOVAL OF FORMWORK THE FOOTWAY BEHIND THE KERB SHALL BE NEATLY TRIMMED, FILLED AND OR TURFED TO MAKE A SMOOTH CONNECTION TO THE UNDISTURBED NATURE STRIP.

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DATE AMENDMENT 00 08.10.2021 ISSUE FOR DISCUSSION ISSUE FOR DISCUSSION ISSUE FOR DA 29 10 2021 03 29.11.2021 ISSUE FOR DA ISSUE FOR DA 06.12.2021







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AC HR RQ

STANDARD DETAIL CAR PARK PROPOSED CARPARK DESIGN ST AUGUSTINE'S COLLEGE

FEDERAL PARADE, BROOKVALE NSW

06/12/2021 NTS CPC 2760 04 C402

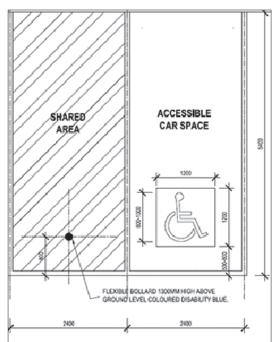
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# **DELINEATION & LINE MARKING**

SCALE - 1:150

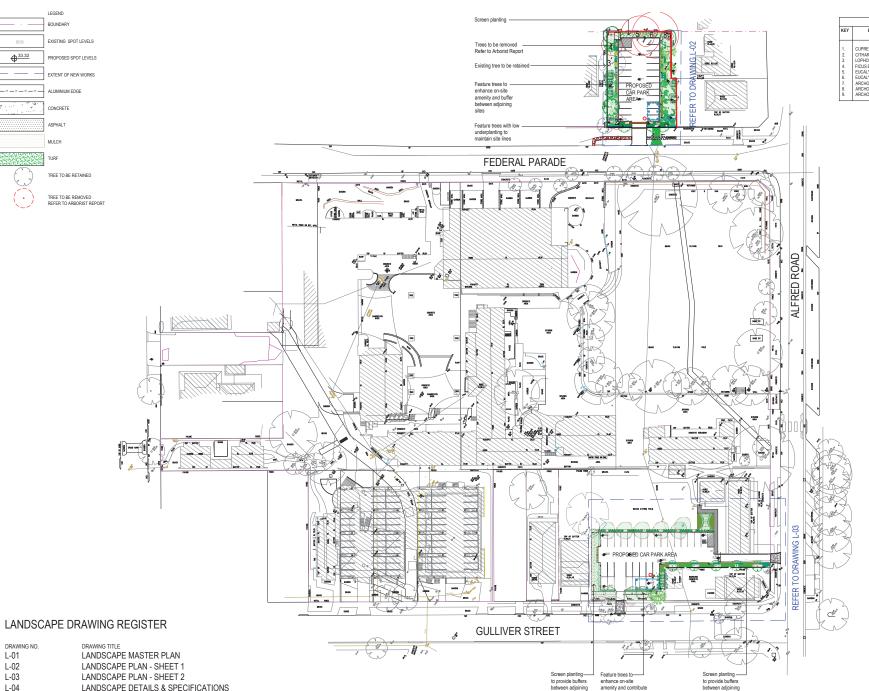
# LINEMARKING NOTES

- LM1 ALL LINEMARKING WORKS TO BE IN ACCORDANCE WITH EITHER THE CURRENT AUSTRALIAN STANDARD AS1742-22099-MANUAL UNIFORM TRAFFIC CONTROL DEVICES, OR AS SHOWN ON THE PLANS OR AS DIRECTED BY THE SUPERINTENDENT.
- LM2 THE SCOPE OF WORK SHALL INCLUDE ALL PAVEMENT MARKINGS TO ROADS AND CARPARKS.
- LM3 THE WORK CARRIED OUT AND TESTING PERFORMED SHALL COMPLY WITH THE CURRENT, RELEVANT AUSTRALIAN STANDARDS AND RTA STANDARDS WHERE NECESSARY.
- LM4 ALL MARKINGS SHALL BE SPOTTED OUT AND APPROVED BY THE SUPERINTENDENT PRIOR TO APPLICATION.
- LM5 PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm 0.45mm.
- LM6 PAINT SHALL ONLY BE APPLIED TO CLEAN AND DRY
- LM7 ALL LONGITUDINAL LINES SHALL BE APPLIED BY A SELF-PROPELLED MACHINE.
- LIM8 LINEMARKING REMOVAL SHALL BE CARRIED OUT BY GRINDING OR SANDBLASTING. REMOVAL BY BURNING WILL NOT BE PERMITTED.
- LM9. THE EXTENT OF LINEMARKING TO BE FRADICATED SHALL
- BE CONFIRMED ON SITE PRIOR TO REMOVAL. ANY MARKINGS INCORRECTLY REMOVED SHALL BE REINSTATED AT THE CONTRACTOR'S EXPENSE.
- LM10 ALL MARKINGS SHALL BE COMPLETED IN A WORKMANLIKE MANNER AND BE STRAIGHT, SMOOTH WORKMANDLINE MININGER AND DE STRANDING, SWOOTH AND WITH EVEN CURVES, ANY NON-CONFORMING WORK, SHALL BE REMOVED AND REINSTATED AT THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTOR'S EXPENSE.



SINGLE-DISABLED-CAR-PARK

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EXISTING TREE SCHEDULE									
KEY	BOTANICAL NAME	DBH (mm)	Height (m)	Canopy Spread Radius (m)	Status				
1.	CUPRESSUS SEMPERVIRENS	650	18	12	RETAIN				
2.	CITHAREXYLUM SPINOSUM	350,350,400	9	6	REMOVE				
3.	LOPHOSTEMON CONFERTUS	400	12	9	RETAIN				
4.	FICUS BENJAMINA	250	7	8	REMOVE				
5.	EUCALYPTUS SALIGNA	850	23	16	REMOVE				
6.	EUCALYPTUS SALIGNA	1150	25	18	REMOVE				
7.	ARCHONTOPHOENIX CUNNINGHAMIANA	250	6	4	REMOVE				
8.	ARCHONTOPHOENIX CUNNINGHAMIANA	250	3	3	REMOVE				
9.	ARCHONTOPHOENIX CUNNINGHAMIANA	300	5	4	REMOVE				

# LANDSCAPE DESIGN INTENT

The main objective of the landscape is to provide shade and improve the visual amenity of the car park and streetscape.

Car park trees have been carefully considered and based on their ability to withstand compaction, suitable for their location and have reliable growth and perform well in an urban environment. The selection adheres to the principle of minimising water consumption by the use of low-water native plant species.

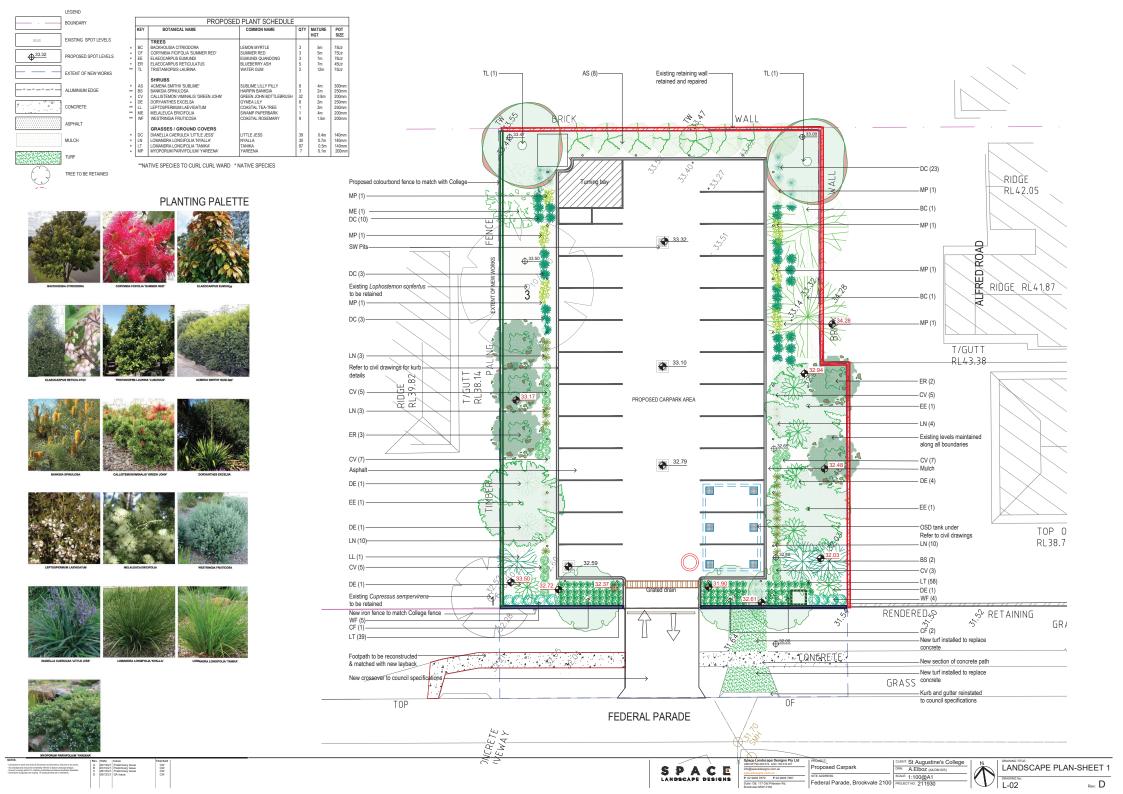
In adhering to design principles, consideration has been given to site specific conditions to determine individual tree's placements with underplanting of low grasses to ensure sight lines are maintained upon entering and exiting the car park. Landscape buffers have been provided alongside boundaries that adjoin residential lots.

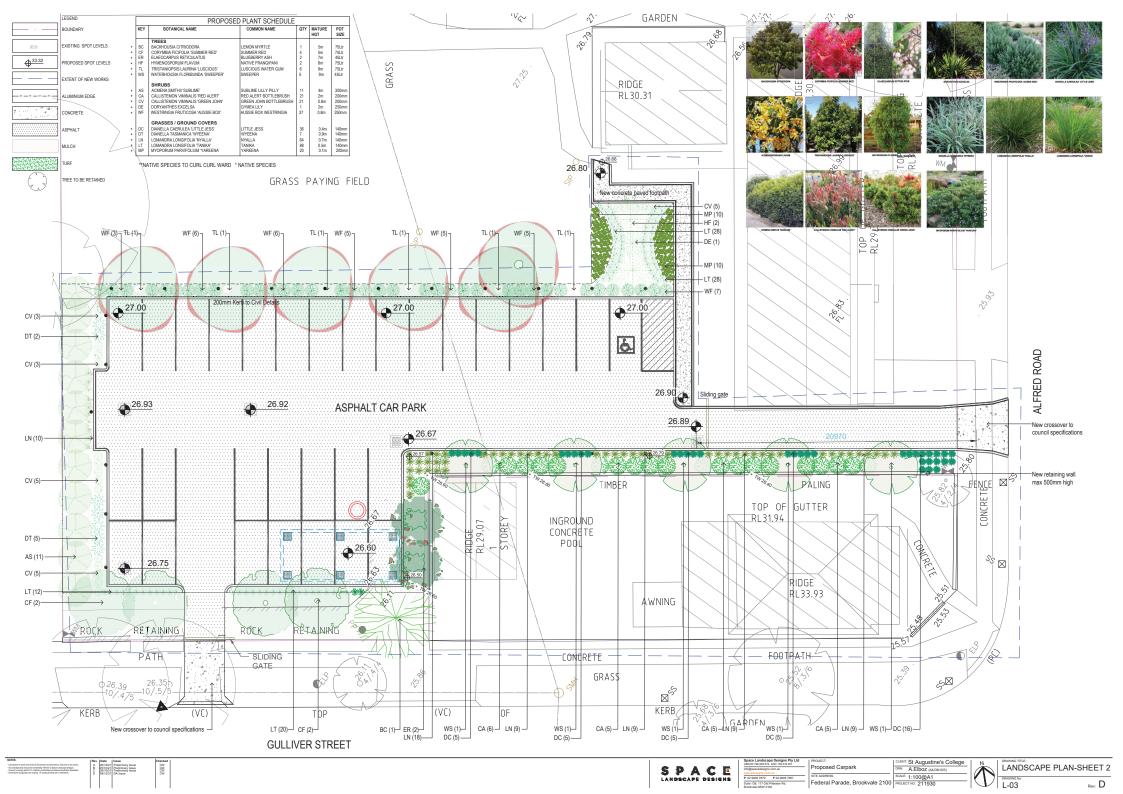
The design increases the existing tree canopies for the sites providing shade and a more aesthetically pleasing streetscape. The streetscape treatment buffer contains a suitable combination of trees, shrubs and groundcovers to create visual diversity and enhance the streetscape character.

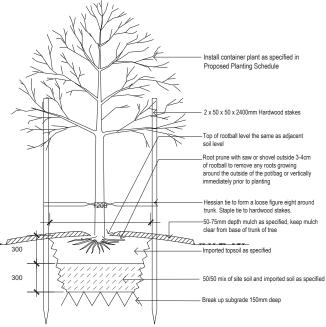
The species selection has been derived from the Northern Beaches Council native species list for Curl Curl Ward.

Water Sensitive Urban Design (WSUD) opportunities have been identified with the recommendation of permeable paving for the car park and pedestrian pathways.

The proposed landscape contributes to the development and will improve the site by providing increased amenities and by adding biodiversity with additional naive canopy trees.

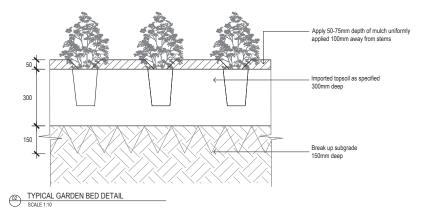


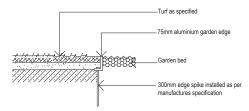




TYPICAL TREE PLANTING DETAIL

SCALE 1:20





ALUMINIUM GARDEN EDGE DETAIL SCALE 1:10

NOTES: encies should be immediately referred to Space Landscape Designs. omply with B.C.A. Statutory Authorities and relevant Australian Stand

LANDSCAPE DESIGNS

Space Landscape Designs Ptv Ltd

P 02 9905 7870 F 02 9905 7657

Proposed Carpark SITE ADDRESS Federal Parade, Brookvale 2100 CLIENT: St Augustine's College A.Elboz (AILDM 625) SCALE: 1:100@A2

LANDSCAPE DETAILS & SPECIFICATION

Rev: B

L-04

# necessary precautions to protect the Structural Root Zone(SRZ) as per AS 4970-2009 Australian Standard for Protection of Trees on Development Sites. Tree protection measures shall remain intact until the completion of all construction works.

Prohibited Works or material storage within the TPZ as per AS 4970-2009 except with approval of council: - entry of machinery or storage of building materials, parking of any kind of vehicle - erection or placement of site facilities, removal or stockpiling of soil or site debris

disposal of liquid waste including paint & concrete wash

- excavation or trenching of any kind (including irrigation or electrical connections) - attaching any signs or any other objects to the tree, placement of waste disposal or skip bins

existing works and make good any damage caused to adjoining existing and retained works.

commencement. Final structural integrity of all items shall be the sole responsibility of landscape contractor.

- pruning and removal of branches, other than those by a qualified Arborist

Compacted Ground/Coring: Avoid compaction of the ground under trees. If compaction nevertheless occurs loosen the soil by Coring. Coring to be carried out by a qualified Arborist.

Locate any underground and overground services & ensure no damage occurs. Levels on plan are nominal only & all dimensions to be checked on site prior to

Materials and workmanship are to conform to the current applicable Australian Standard Specifications and Codes. Any work or materials, which, in the opinion of the Site Manager do not meet appropriate industry standards should be rejected. Where works are adjacent to existing works, make proper junctions between new and

Prior to construction, the builder shall erect tree protection fencing to the drip line of existing trees to be retained. The fence shall be constructed of star pickets at 2.4m spacings and connected by three strands of 2mm wire at 300mm spacings to a minimum height of 1500mm. Protect all trees affected by demolition & construction. Take

#### REMOVAL OF EXISTING TREES

I ANDSCAPE SPECIFICATION NOTES SITE PREPARATION

PROTECTION OF EXISTING TREES:

WORKMANSHIP AND MATERIAL QUALITY

All trees to be removed shall be carried out by a qualified arborist and work shall conform to the provisions of AS4373-2007 Australian Standards for The Pruning of AmenityTrees

#### **ELIMINATE WEEDS**

Remove all existing weeds by hand, wiping or spraying with a glyphosate based herbicide. Weed control shall never be performed by mechanical cultivation or by scraping. Herbicide spraying is to be used to eliminate all existing weeds 30 days prior to planting.

## **EXCAVATION & SUB SOIL PREPARATION**

Excavate garden beds to the depth required and rip or scarify base & sides of pit to a minimum depth of 150mm.

## SUB SOIL DRAINAGE

Install drainage layer where there is surface water runoff draining into garden bed areas & where the existing sub-soil has more than 50% clay composition & there is a

Install perforated corrugated ag, line 75-100mm Dia. with geotextile filter sock & backfill to a minimum 200mm using free draining material, reclaimed/recycled where available. Direct flows at a minimum 0.5% fall to SW system. In areas isolated from stormwater system excavate & backfill an appropriate water dispersion pit. REUSE EXISTING TOPSOIL

Existing site topsoil should be salvaged & appropriately stockpiled where possible.

#### IMPORTED TOPSOIL

All construction must comply with AS 4419-2003 Soils for Landscaping and Garden Use. Turf Areas: 'Turf Underlay', Tree Pit and Shrub Planting: 'Premium Garden Mix' as supplied by, ANL p. 02 9450 1444 or approved alternative. Spread the topsoil on the prepared subsoil and grade evenly, making allowances, if appropriate, for the

- Required finished levels and contours after light compaction.

- Compact lightly and uniformly in 150 mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:
- Finished to design levels, smooth and free from stones or lumps of soil. Graded to drain freely, without ponding, to catchment points. Grade evenly into adjoining ground surfaces ready for planting.

Remove weeds, rubbish, mulch and other debris. Do not disturb tree roots or services and if necessary cultivate these areas by hand. Spread topsoil on the prepared subsoil and grade evenly, making the necessary allowance to permit the required finished levels and contours after a light compaction. Spread topsoil to the typical depth of 300mm.

Feather edges into adjoining undisturbed ground.

## TREE STOCK

Tree stock to be supplied by production nurseries in accordance with AS 2303:2018 Tree Stock for Landscape Use.

Health & Vigour: Supply plants with foilage size, texture & colour consistent with that shown in healthy specimens of the species. Balance of Crown: Supply plants with max, variation in crown bulk on opposite sides of stem axis. +/- 20%. Stock selection should also be based on NATSPEC Guide Specifying Trees; a Guide to Assessment of Tree Quality.

Install 2 x 2400mm x 50mm x 50mm hardwood timber stakes with hessian ties to all trees. Provide appropriate support considering exposure to prevailing winds. Stakes and hessian ties to be removed as soon as the tree is self supporting.

### ALUMINIUM GARDEN EDGING

Supply and install Link Edge 75mm as per Landscape Plan with safety top and flush to ground. Compact and level the base in the required area as indicated on Landscape Plan, Half hammer spikes into prepunched holes (approx 4 spikes every 3m length) starting from the first hole in the end of the Link Edge. Use spike washers supplied by manufacturer. Half hammer subsequent spikes in pivotal areas along the length. (Especially at points where a curve is required). Connect lengths together by using fish-plate connectors supplied by manufacturer. Check position of Link Edge is correct before hammering spikes firmly into ground.

## MULCHING

All landscaping must comply with AS 4454-2003 Compost, soil conditioners and mulches. All planting areas to receive 50-75mm of garden Mulch. Droughtmaster, ANL p: 02 9450 1444 or approved alternative. Keep mulch 100mm away from plant stem & form a well to stop excessive water runoff. Finish flush with adjacent surfaces.

Water in immediately after plant installation & allow for soil settlement. Watering program: Minimum 3 complete waterings, soaking to a depth of 150 mm at fortnightly intervals for the first 6 weeks of plant establishment irrespective of natural rainfall. Manually water all lawn and planting areas in absence of an irrigation system or until the proposed irrigation system is fully operational. Avoid frequent dampening of the surface. Allow the surface of the soil to partially dry out between waterings.

PROJECT NO: 211930