ARMIDALE SECONDARY SCHOOL

BUTLER STREET, ARMIDALE, NSW, 2350

CIVIL DRAWING SCHEDULE		
DWG No.	TITLE	SCALE
C-000	COVER SHEET & DRAWING LIST	N/A
C-001	CONSTRUCTION NOTES	N/A
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Issue

No.	Date	Description	Approved
6	12.10.18	SSDA V2 SUBMISSION	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
COVER SHEET & DRAWING LIST

Date 21/04/2020 4:01:50 PM

Scale N/A @ A1

Drawing Reference
7070-BIRZ-C-000

Revision
6

0 1 2 3 4 5 6 7 8 9 10

GENERAL

01. These structural drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the Superintendent before proceeding with the work.

02. All materials and workmanship shall be in accordance with the relevant current Standards Australia Codes and with the Building Code of Australia.

03. All dimensions shown on these structural drawings shall be verified by the Contractor on site. These structural drawings shall not be scaled for dimensions.

04. The method of construction and the maintenance of safety during construction is the responsibility of the Contractor. If any structural element presents difficulty in respect of constructability or safety, the matter shall be referred to the Structural Engineer for resolution before proceeding with the work.

05. During construction the structure shall be maintained in a stable condition and no part shall be overstressed. The design, installation and maintenance of all temporary propping, bracing and shoring shall be provided by the Contractor to keep the works and excavations stable at all times. The cost of all such work shall be deemed to be included in the Contractors tender.

FOUNDATIONS

01. Bored piers shall be in accordance with AS 2159 SAA piling Code.

02. Bored piers have been designed for an allowable end bearing pressure intensity of 600 kpa bearing on Extremely Weathered Siltstone.

03. Strip footings and pad footings have been designed for an allowable bearing pressure intensity of 150 kPa bearing on Natural Ground

04. The contractor shall obtain approval from the Superintendent of the foundation material before placing reinforcement or concrete.

05 Footings shall be located centrally under walls and columns unless noted otherwise.

06. Footings shall be constructed and backfilled as soon as possible following excavation to avoid softening or drying out of the foundation material.

07. Bored piers shall be concreted on the same day that they are excavated.

08. The contractor shall arrange for a representative from Geoenviro (the geotechnical consultant) to be present at the time of drilling all of the bored piers to determine the actual founding levels. The cost of this shall be deemed to be included in the contractors tender.

PREPARATION FOR BUILDING SLABS

01. Clear the area to be occupied by the building and its adjuncts. Break up and remove slabs, foundations, paving, etc found on the surface or within 300mm of the basecourse. Remove all topsoil and organic matter and grub out all roots and stumps. Remove all rubble remaining from excavations.

02. The subgrade material (natural ground below the excavations) shall be thoroughly compacted by proof rolling with a minimum of 6 passes of a 10 tonne dead weight roller. This proof rolling shall be inspected by the geotechnical engineering consultant, to determine the extent of replacement of any unsuitable material. The cost of these inspections shall be deemed to be included in the contractors tender.

03. Any soft, yielding, organic or other unsuitable material in the subgrade shall be removed for a depth of at least 300mm and holes so formed shall be filled with approved filling compacted in 150mm layers as specified below.

04. Bring all filling on to the site unless it can be provided from spoil recovered from the site. Filling shall be sound clean stable material, free of perishable material or any other material that will not form stable fill. The fill material shall be capable of consolidation so that it is firm and unyielding throughout its depth.

05. Place filling in layers not exceeding 200mm thick when measured loose. Bring filling to optimum moisture content (- 2%) by watering and compact each layer thoroughly and uniformly with a roller where practicable. Hand tamp in areas not accessible to a roller.

06. For the backfilling of localised excavations lightweight compaction equipment is to be used and filling placed in layers not exceeding 100mm thick when measured loose.

07. Consolidate each layer of filling to obtain a uniform density strictly between 98% & 102% of the standard maximum dry density of the material as determined by AS1289.5.1.1.

08. The subgrade layer (directly below the slab) shall be blinded with 25mm of sand.

09. Finish the subgrade to the following tolerances:
Variation from design level - 5mm
Variation from 3000mm straight edge - 5mm

10. All earthworks shall be carried out under Level 1 control as defined in AS. 3798.

11. The Contractor shall allow for testing at the rate of one test per 2500 square metres of surface area for each of the following finished surfaces, with a minimum of three tests for each compacted layer:

-Subgrade

12. The contractor shall allow for testing at the rate of one test per 500 cubic metres for the filling, with a minimum of three tests for each compacted layer.

13. The location of all tests shall be to the approval of the Superintendent.

14. The Contractor shall obtain from a registered N.A.T.A. testing authority documented test evidence proving that the compaction figures as required for the materials specified herein have been obtained. The cost of such work shall be deemed to be included in the Contractors Tender.

CONCRETE

01. All workmanship and materials shall be in accordance with AS 3600 current edition with amendments, except where varied by the contract documents.

02. Concrete Quality: Class = Normal
Slump = 80mm
Maximum size of aggregate in structural concrete= 20mm U.N.O.
Cement Type = SL
Admixtures = nil, unless noted otherwise or approved in writing.

For concrete cast in contact with ground provide the following additional properties:
Minimum cement content = 330 kg/m³
Maximum water/cement ratio = 0.50

Concrete shall have a characteristic compressive strength at 28 days (f'c) as shown in the following table, unless noted otherwise on the drawings :

ELEMENT	f'c MPa (28 days)
BORED PIERS, STRIP FOOTINGS, FOOTING BEAMS	32
ROAD PAVEMENTS & STAIRS	32
WALLS	40
EXTERNAL CONCRETE, ALL OTHER CONCRETE U.N.O.	32

03. Project control testing shall be carried out in accordance with AS 3600.

04. Clear concrete cover in mm to the reinforcement shall be as follows (unless noted otherwise on the drawings) :

EXPOSURE CLASSIFI-CATION TO AS3600	CAST AGAINST FORMWORK			CAST AGAINST GROUND	
	INTERIOR	EXTERIOR	CONTACT WITH GROUND	PROTECTED BY MEMBRANE	NO MEMBRANE
A1.	25				
A2.	25	30	30	40	50
B1.		40			
B2.		45			

Exposure classification for interior concrete -**A2**
Exposure classification for exterior concrete -**A2**
All reinforcement shall be firmly supported on mild steel plastic tipped chairs, plastic chairs or concrete chairs at not greater than 1 metre centres both ways. Bars shall be tied at alternate intersections. In exposure conditions greater than B1 use only plastic chairs.

05. Concrete sizes shown do not include thicknesses of applied finishes.

06. Depths of beams are given first and include slab thicknesses.

07. For chamfers, drip grooves, reglets, etc., refer to Architects details, maintain cover to reinforcement at these details.

08. No holes, chases or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without the prior written approval of the Superintendent.

09. Construction joints where not shown shall be located to the approval of the Superintendent.

10. The finished concrete shall be a dense homogeneous mass, completely filling the formwork thoroughly embedding the reinforcement and free of stone pockets. All concrete including slabs on ground and footings shall be compacted with mechanical vibrators.

11. Curing of all concrete is to be achieved by keeping surfaces continuously wet for a period of 7 days, and prevention of loss of moisture for a total of 14 days followed by a gradual drying out. Approved sprayed on curing compounds may be used where no floor finishes are proposed. Polythene sheeting or wet hessian may be used if protected from wind and traffic.

12. Construction support propping is to be left in place where needed to avoid overstressing the structure due to construction loading. No masonry or partition walls are to be constructed on suspended levels until all propping is removed and the member has absorbed its dead load deflection.

13. The Superintendent shall be given 48 hours notice for reinforcement inspection and concrete shall not be delivered until final approval obtained.

14. Conduits, pipes etc., shall only be located in the middle one third of slab depth and spaced at not less than 3 diameters. Pipes or conduits shall not be placed within the cover to the reinforcement.

15. Reinforcement symbols:
S Denotes Grade 230 S Hot Rolled Deformed Bars to AS 1302
N Denotes Grade 500 N Deformed Bars to AS 4671
R Denotes Grade 230 R Hot Rolled Plain Bars to AS 1302
SL,RL,L Denotes Grade 500 L Deformed Ribbed Welded Mesh to AS 4671
The figures following the symbol are the number of millimetres in the bar diameter. The figures following the mesh symbol SL,RL,L is the reference number for mesh to AS 4671.

16. Reinforcement is represented diagrammatically and not necessarily in true projection.

17. Splices in reinforcement shall be made only in positions shown or otherwise approved in writing by the Superintendent. Laps shall be in accordance with AS 3600 and not less than the development length for each bar.

18. Mesh reinforcement shall have splices made so that the overlap, measured between the outermost transverse wires of each sheet of mesh, is not less than the spacing of those wires plus 50mm.

19. Welding of reinforcement shall not be permitted unless shown on the structural drawings or approved by the Superintendent.

20. Joggles to bars shall be 1 bar diameter over a length of 12 bar diameters.

21. Bundled bars shall be tied together at 30 bar diameter centres with three wraps of tie wire.

22. Where transverse tie bars are not shown provide N12 at 400mm distribution bars unless noted otherwise. Splice distribution bars 500mm where necessary and provide 500mm splice length with main bars unless noted otherwise.

23. All dowels placed in joints in concrete slabs shall be placed within the following tolerances:

Level +/- 1 degree
Line +/- 1 degree
Position +/- 5mm

24. Sliding bearing strips supporting concrete slabs shall be composed of two layers of 0.4mm thick galvanised steel plate with an intermediate layer of grease (unless noted otherwise). The strips shall be the same width as the bearing surface.

MASONRY WALLS

01. All workmanship and materials shall be in accordance with AS 3700. Masonry units shall comply with AS 4455. Wall ties shall comply with AS 2699.

02. Walls shown on structural drawings are load-bearing walls, unless noted otherwise. Non load-bearing walls shall be separated from the concrete structure above them with a minimum 20mm thick approved compressible isolation material.

03. No masonry walls which are supported by the concrete structure shall be erected until the formwork has been removed.

04. Masonry walls supporting concrete slabs and beams shall be troweled smooth and separated at the bearing surfaces with the slip material specified in the concrete notes.

05. The minimum compressive strength of clay masonry bricks shall be 27 MPa. Clay masonry bricks shall have a Characteristic Expansion value not exceeding 0.8 mm/m.

06. Concrete masonry blocks shall be of a minimum compressive strength Grade 15 in accordance with AS 4455.

07. Mortar for structural concrete masonry walls shall consist of a 1 part of cement to 0.25 parts of hydrated lime to 3 parts well-graded sand. Mortar for structural brick masonry walls shall consist of 1 part cement to 1 part hydrated lime to 6 parts well-graded sand. All mortar shall conform to requirements of AS 3700. Mortar admixtures shall not be used without the written approval of the Superintendent.

08. No chases or recesses are permitted in load bearing and structural masonry without the written approval of the Superintendent.

09. All load bearing and structural masonry shall be laid on full beds of mortar and all perpends shall be solidly filled with mortar.

10. Provide vertical control joints at 8m maximum centres, and 5m maximum from corners in masonry walls, unless noted otherwise on the drawings. All masonry walls supporting or supported by concrete floors shall be provided with vertical joints to match any control joints in the concrete.

11. Reinforcement for concrete masonry block walls shall be securely tied in position. Provide 20mm grout cover to the reinforcement unless noted otherwise.

12. Core fill grout for concrete masonry blocks shall be in accordance with AS 3700 with a minimum characteristic compressive strength of 20 MPa. The grout shall have a slump of 230mm +/- 30mm and the maximum size of aggregate shall be 10mm. Grout shall have a minimum cement content of 300 kg/m3.

13. Concrete masonry walls which are to be grout filled shall have cores cleaned of all mortar protrusions and shall be filled with grout in lifts of not more than 1200mm in height. Core fill grout shall be thoroughly compacted in place by internal vibrators. All cores are to be filled without the formation of voids. Clean-out holes shall be provided in the back-filled side at the base of retaining walls.

14. Unless noted otherwise on the drawings, all masonry walls shall be tied to abutting steel and concrete columns with 38x1.6x300 long crimped galvanised steel straps at maximum 400mm centres vertically. Fix straps to steel columns with 2/No 12 self drilling steel fasteners. Fix straps to concrete columns with 2/"Hilti DBZ" masonry anchors. All fixings shall be installed in strict accordance with the manufacturers instructions. (Alternative fixings may be submitted for approval.)

15. Unless noted otherwise on the drawings all masonry walls shall be tied to adjacent parallel steel members with 38 x 1.6 crimped galvanised steel straps at maximum 400mm centres to both the top and bottom of the steel member. The crimped ends of the straps shall be embedded a minimum of 90mm into the mortar joints. Fix straps to steel members with 2/No.12 self drilling steel fasteners installed in strict accordance with the manufacturers recommendations. (Alternative fixings may be submitted for approval).

16. Do not backfill cantilever retaining walls until at least 14 days have elapsed after the completion of the grout filling of the walls unless otherwise approved by the Superintendent.

17. Do not backfill retaining walls (other than cantilever walls) until a minimum of seven days have elapsed from the time of completion of the floor construction at the top and bottom of the wall.

18. Backfill to retaining walls shall be a highly permeable granular material. Provide a subsoil drain at the base of the wall connected to the stormwater drainage system unless noted otherwise.

SPECIFICATION FOR CONSTRUCTION OF DRIVEWAY, ROAD AND CARPARK PAVEMENT

01. All work shall be in accordance with the Specification and the requirements of the Local Council.

02. Levels given are final finished levels and allowances shall be made for thickness of pavement, landscaping etc. including allowances for compaction and settlement. Finished surfaces shall be free of local irregularities and evenly graded between level points given. Ensure that finished surfaces are free draining towards stormwater pits. Confirm all levels and falls on site before commencing work.

03. Refer to the survey drawings, the Architects and other Consultants drawings for the location of existing services. The Builder is to allow for all adjustment and relocation of services affected by the works. Any adjustment or relocation of services shall be carried out to the approval of the Superintendent, and shall include reinstatement of pavements etc. to the standards specified in these documents.

04. Starting points for subsoil drains shall have an invert level of 400 minimum below finished road or surface level. Provide a minimum 1:100 fall to all subsoil drains. Provide clean out facility at the starting point of all subsoil drains and at maximum 30m centres.

Additional subsoil drainage shall be provided where directed by the Superintendent.

05. During the course of construction and the extent of the maintenance period, the Builder is to provide and maintain a suitable sediment and erosion control system in accordance with the Specifications and the requirements of the Local Council. This shall include but not be limited to:-

a) Erection of sediment fencing.
b) Provision of straw bales to protect all pits.
c) Revegetation of all disturbed areas as soon as relevant works are completed.

SUBGRADE

06. Clear the area to be occupied by the pavement and its adjuncts. Break up and remove foundations, slabs, paving etc. found on the surface or within 300mm of the basecourse. Remove all topsoil and organic matter and grub out all roots and stumps. Remove all rubble remaining from excavations.

07. The subgrade material (natural ground below the excavations) shall be thoroughly compacted to a minimum thickness of 300mm to 100% of the standard maximum dry density of the material as determined by AS 1289.5.1.1. (compaction not required for weathered shale subgrade)

08. Any soft, yielding, organic or other unsuitable material in the subgrade shall be removed for a depth of at least 300mm and holes so formed shall be filled with approved filling compacted in 150mm layers as specified below.

09. Bring all filling on to the site unless it can be provided from spoil recovered from the site. Filling shall be sound clean stable material, free of perishable material or any other material that will not form stable fill. The fill material shall be capable of consolidation so that it is firm and unyielding throughout its depth.

10. Place filling in layers not exceeding 200mm thick when measured loose. Bring filling to optimum moisture content (+/- 2%) by watering and compact each layer thoroughly and uniformly with a vibrating roller.

11. Consolidate each layer of filling to obtain a uniform density of not less than 100% of the standard maximum dry density of the material as determined by AS 1289.5.1.1.

SUBBASE

12. The sub-basecourse layer for the Road pavement area shall consist of finished compacted thickness of crushed rock (as shown on drawing 7070-BIRZ-C-C011) in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be a Class 2 DGS 20 in accordance with the aforementioned standards.
Design Original Subgrade CBR = 4.0%
Design Traffic Loading = 5 x 10⁶ ESA
Design Heavy Traffic Loading = 1 x 10⁶ ESA

BASE

13. The basecourse layer for the Road and Carpark pavement area shall consist of finished compacted thickness of crushed rock (as shown on drawing 7070-BIRZ-C-C011) in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be a Class 1 DGB 20 in accordance with the aforementioned standards.

14. The basecourse layer for the Heavy Duty pavement area shall consist of a finished compacted thickness (as shown on drawing 7070-BIRZ-C-C011) of crushed rock in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be a Class 1 DGB 20 in accordance with the aforementioned standards.

WEARING SURFACE

15. The wearing surface course for the Road and Carpark pavement area shall be a 40mm compacted thickness of 10mm asphaltic concrete laid on the two coat seal in accordance with RTA QA Specification R116.

TESTING

16. The Contractor shall allow for testing at the rate of one test per 2500 square metres of surface area for each of the following finished surfaces, with a minimum of three tests for each compacted layer:-

- Subgrade
- Sub-basecourse
- Basecourse
Testing is not required for weathered shale subgrades

17. The Contractor shall allow for testing at the rate of one test per 500 cubic metres for the filling, with a minimum of three tests for each compacted layer.

18. The location of all tests shall be to the approval of the Superintendent.

19. The Contractor shall obtain from a registered N.A.T.A. testing authority documented test evidence proving that the compaction figures as required for the materials specified herein have been obtained. The cost of such work shall be deemed to be included in the Contractors Tender. Test results for each stage (ie. subgrade, subbase, basecourse and fill where applicable) to be submitted to the Superintendent prior to proceeding to the next stage of the works.

6 NOTES REVISED

MASONRY FLEXIBLE ANCHORS

01. All anchors shall be subject to the approval of the Superintendent.

02. All anchors shall be manufactured from hot dip galvanised steel plate.

03. All anchors shall permit horizontal and vertical movement in the plane of the wall but shall resist movement in a perpendicular direction to the plane of the wall, unless noted otherwise.

04. The anchors shall have the following minimum lateral working load capacities to resist forces in a perpendicular direction to the plane of the wall:

- At vertical control joints : 0.30 kN
- All other anchors : 0.40 kN

CHEMICAL AND MASONRY ANCHORS

01. All anchors shall be subject to the approval of the Superintendent.

02. Chemical anchors shall consist of a threaded mild steel rod of the size nominated on the drawings embedded in and chemically bonded to the concrete. The chemicals used shall be such that they do not detrimentally affect the surrounding concrete. The rod shall be hot dip galvanised.

03. Masonry anchor sizes given on the structural drawings refer to the bolt diameter required.

04. All anchors shall be capable of developing a working load capacity in shear and tension of at least 80% of the maximum permissible values for the threaded rod or bolt size nominated.

05. All anchors shall be installed in strict accordance with the manufacturers recommendations.

06. Holes drilled for anchors shall not penetrate reinforcement in suspended concrete slabs, beams, columns and walls . Any holes which are found to clash with such reinforcement shall be relocated as necessary and the initial hole shall be patched to the approval of the Superintendent.

SPECIFICATION FOR CONSTRUCTION OF PLAYGROUND PAVEMENT

01. Clear the area to be occupied by the pavement and its adjuncts. Break up and remove foundations, slabs, paving etc. found on the surface or within 300mm of the basecourse. Remove all topsoil and organic matter and grub out all roots and stumps. Remove all rubble remaining from excavations.

02. The subgrade material (natural ground below the excavations) shall be thoroughly compacted to a minimum thickness of 300mm to 100% of the standard maximum dry density of the material as determined by AS 1289.5.1.1.

03. Any soft, yielding, organic or other unsuitable material in the subgrade shall be removed for a depth of at least 300mm and holes so formed shall be filled with approved filling compacted in 150mm layers as specified below.

04. Bring all filling on to the site unless it can be provided from spoil recovered from the site. Filling shall be sound clean stable material, free of perishable material or any other material that will not form stable fill. The fill material shall be capable of consolidation so that it is firm and unyielding throughout its depth.

05. Place filling in layers not exceeding 200mm thick when measured loose. Bring filling to optimum moisture content (+/- 2%) by watering and compact each layer thoroughly and uniformly with a vibrating roller.

06. Consolidate each layer of filling to obtain a uniform density of not less than 100% of the standard maximum dry density of the material as determined by AS 1289.5.1.1.

07. The basecourse layer for the Playground pavement area shall consist of 150mm finished compacted thickness of crushed rock in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be a Class 1 DGB 20 in accordance with the aforementioned standards.
Design Loading = 1 x 10⁴ ESA

08. The Contractor shall allow for testing at the rate of one test per 1000 square metres of surface area for each of the following finished surfaces, with a minimum of three tests for each compacted layer:-

- Subgrade
- Basecourse

09. The Contractor shall allow for testing at the rate of one test per 200 cubic metres for the filling, with a minimum of three tests for each compacted layer.

10. The location of all tests shall be to the approval of the Superintendent.

11. The Contractor shall obtain from a registered N.A.T.A. testing authority documented test evidence proving that the compaction figures as required for the materials specified herein have been obtained. The cost of such work shall be deemed to be included in the Contractors Tender. Test results for each stage (ie. subgrade, basecourse and fill where applicable) to be submitted to the Superintendent prior to proceeding to the next stage of the works.

6 NOTES REVISED

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Issue

No.	Date	Description	Approved
6	15.04.20	SSDA V3 SUBMISSION - ROAD & PLAYGROUND NOTES REVISED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
CONSTRUCTION NOTES

Date 15/04/2020 8:52:54 AM
Scale N/A @ A1

Drawing Reference 7070-BIRZ-C-001
Revision 6

0 1 2 3 4 5 6 7 8 9 10

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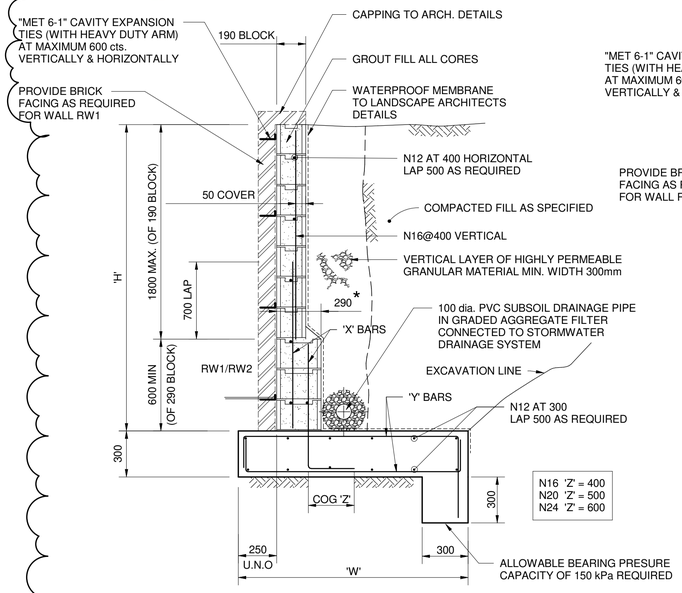
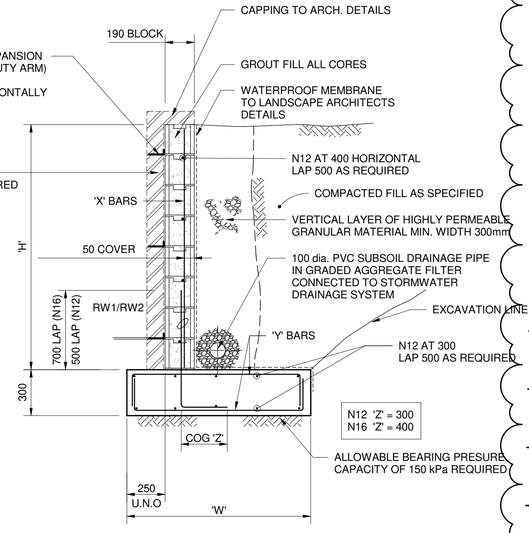
6 RW1 & RW2 REVISED



BLOCK RETAINING WALL TYPE 'A' (RW1/RW2)

SCALE 1:20

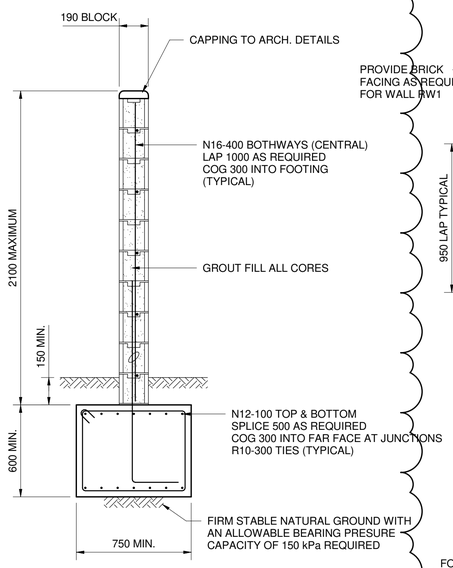
* USE 390 BLOCKS WHERE 'H' EXCEEDS 3000mm
BRICK FACING NOT REQUIRED FOR WALL RW2



BLOCK RETAINING WALL TYPE 'B' (RW1/RW2)

SCALE 1:20

BRICK FACING NOT REQUIRED FOR WALL RW2

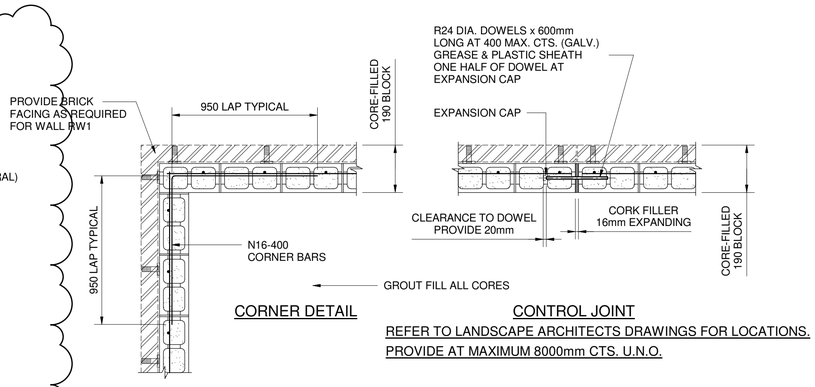


TYPICAL ACOUSTIC WALL DETAIL

SCALE 1:20

6 RW3 ADDED

6 ACOUSTIC WALL ADDED



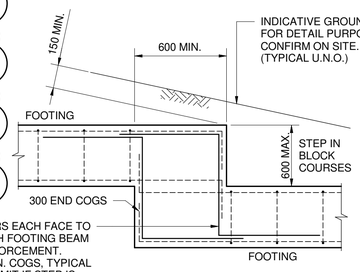
CORNER DETAIL

CONTROL JOINT

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR LOCATIONS.
PROVIDE AT MAXIMUM 8000mm CTS. U.N.O.

TYPICAL REINFORCED BLOCK WALL DETAILS

SCALE 1:20



RETAINING WALL STEP IN FOOTING

SCALE 1:20

(USE AS REQUIRED)

6 RW4 & RW5 ADDED

Issue

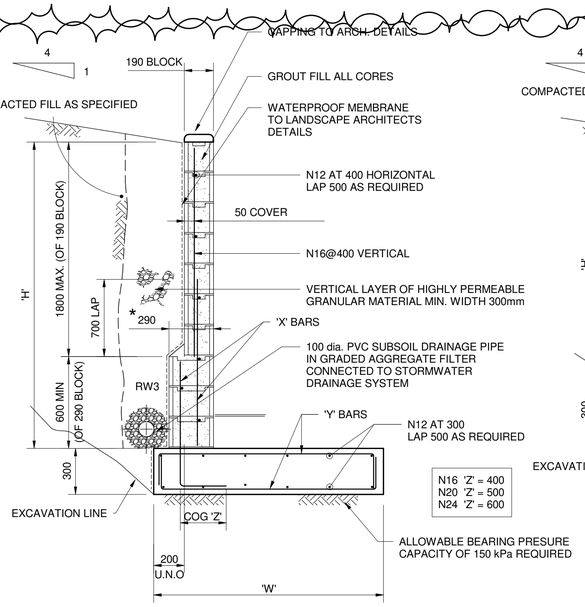
No.	Date	Description	Approved
6	15.04.20	SSDA V3 SUBMISSION - RW1 & RW2 REVISED, RW3, RW4, RW5, ACOUSTIC WALL ADDED	MG

BLOCK RETAINING WALL SCHEDULE (RW1/RW2)

WALL TYPE	WALL HEIGHT 'H'	FOOTING WIDTH 'W'	REINFORCEMENT 'X' BARS	REINFORCEMENT 'Y' BARS
'A'	3000 - 3400	2800	N20 AT 200	N20 AT 200
	2400 - 3000	2400	N24 AT 400	N24 AT 400
	1800 - 2400	2000	N16 AT 400	N16 AT 400
'B'	1000 - 1800	1400	N16 AT 400	N16 AT 400
	UP TO 1000	900	N12 AT 400	N12 AT 400

BLOCK RETAINING WALL SCHEDULE (RW3)

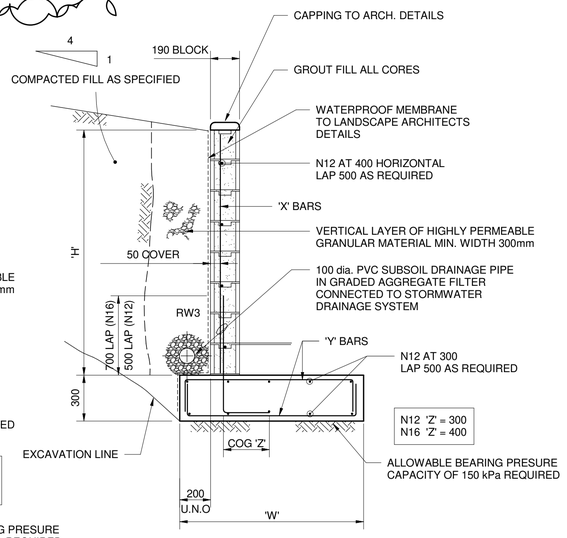
WALL TYPE	WALL HEIGHT 'H'	FOOTING WIDTH 'W'	REINFORCEMENT 'X' BARS	REINFORCEMENT 'Y' BARS
'A'	3000 - 3400	3200	N20 AT 200	N20 AT 200
	2400 - 3000	2600	N24 AT 400	N20 AT 400
	1800 - 2400	2000	N16 AT 400	N16 AT 400
'B'	1000 - 1800	1600	N16 AT 400	N16 AT 400
	UP TO 1000	1000	N12 AT 400	N16 AT 400



BLOCK RETAINING WALL TYPE 'A' (RW3)

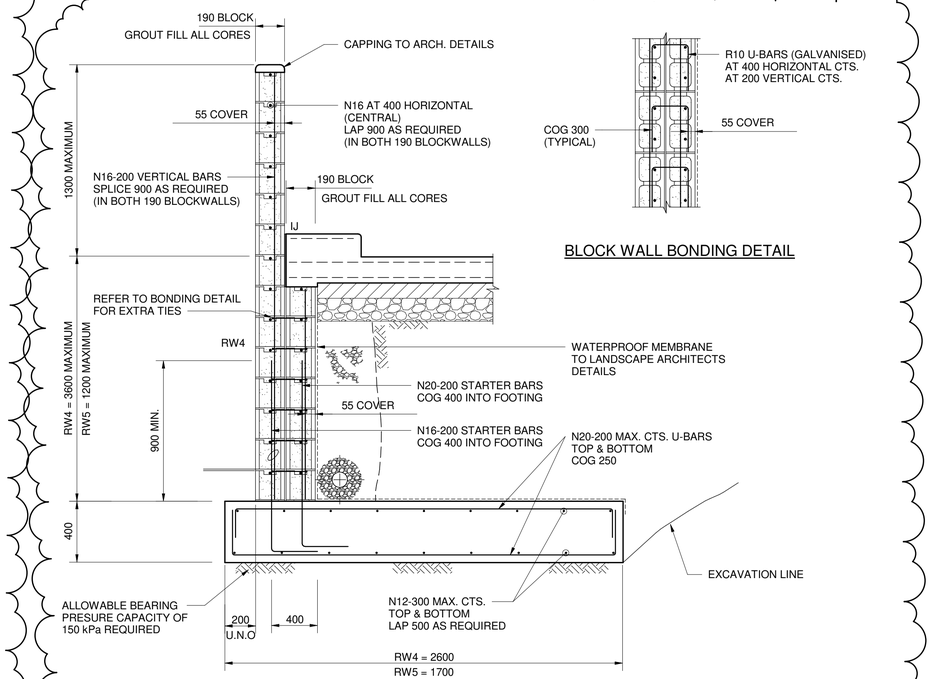
SCALE 1:20

* USE 390 BLOCKS WHERE 'H' EXCEEDS 3000mm



BLOCK RETAINING WALL TYPE 'B' (RW3)

SCALE 1:20



BLOCK RETAINING WALL RW4 & RW5

SCALE 1:20

RW4 & RW5 INCLUDES CRASH BARRIER DESIGN

BLOCK WALL BONDING DETAIL

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DEPARTMENT OF EDUCATION NSW

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
TYPICAL BLOCK RETAINING WALL DETAILS

Date 15/04/2020 8:52:55 AM

Scale 1:20 @ A1

Drawing Reference 7070-BIRZ-C-010

Revision 6

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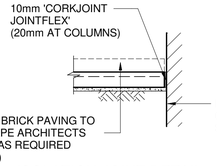
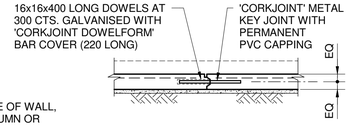
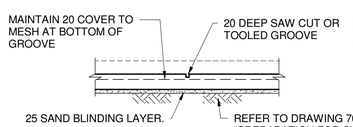


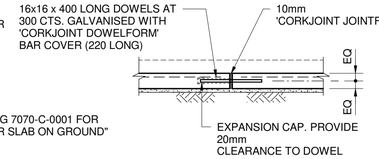
ISOLATION JOINT DETAIL
SHOWN THUS ON PLAN IJ
(USE AS REQUIRED)



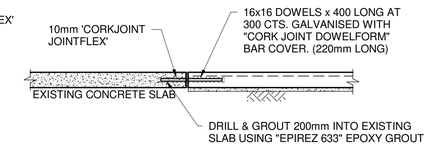
DOWELLED KEY JOINT DETAIL
SHOWN THUS ON PLAN DKJ
(PROVIDE AT 6000mm MAX. CTS. BETWEEN EXPANSION JOINTS)



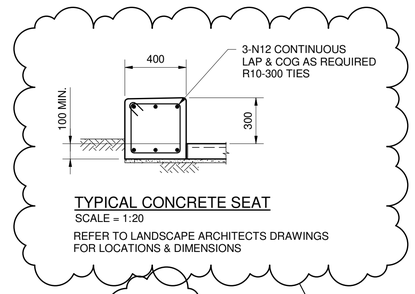
SAWN/TOOLED JOINT DETAIL
SHOWN THUS ON PLAN SJ
(PROVIDE AT 3000mm MAX. CTS. BETWEEN OTHER JOINTS)



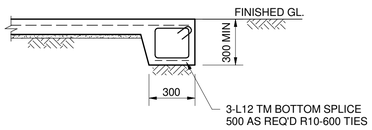
EXPANSION JOINT DETAIL
SHOWN THUS ON PLAN EJ
(PROVIDE AT 18000mm MAX. CTS.)



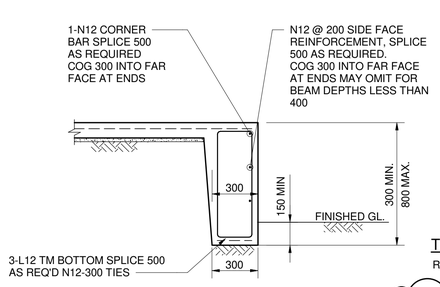
TYPICAL JUNCTION WITH EXISTING PAVEMENT
(USE AS REQUIRED)



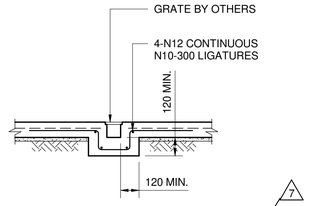
TYPICAL CONCRETE SEAT
SCALE = 1:20
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR LOCATIONS & DIMENSIONS



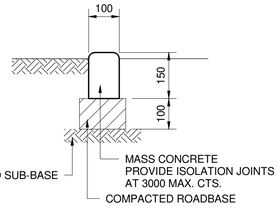
TYPICAL CONCRETE PAVING EDGE THICKENING DETAIL (ET)
SHOWN THUS ON PLAN ET

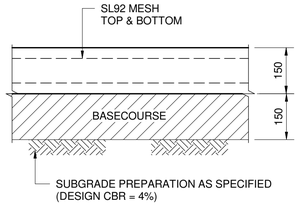


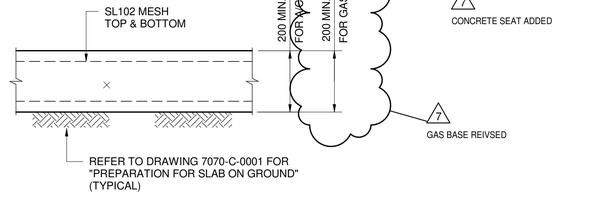
TYPICAL CONCRETE PAVING EDGE THICKENING DETAIL (ET1)
SHOWN THUS ON PLAN ET1



TYPICAL GRATED DRAIN DETAIL
REFER STORMWATER ENG. DRAWINGS FOR LOCATIONS







TYPICAL MOWING STRIP/CONCRETE EDGING
SCALE = 1:10
(USE AS REQUIRED, REFER TO LANDSCAPE ARCHITECTS DRAWINGS)

TYPICAL GAMES COURT SECTION
SCALE = 1:10
DESIGN LOADING = 1 x 10^4 ESA
SHOWN THUS ON PLAN

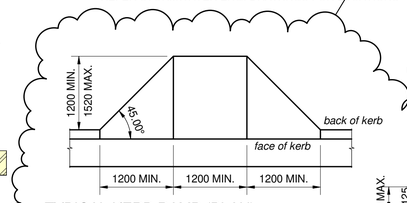
TYPICAL A/C & GAS BASE SECTION
SCALE = 1:10
REFER TO PLAN FOR LOCATIONS

Issue

No.	Date	Description	Approved
7	15.04.20	SSDA V3 SUBMISSION - CONCRETE SEAT, KERB RAMP, MOUNTABLE KERB, KERB ONLY AT RETAINING WALL, DISH DRAIN ADDED, GAS BASE, PAVEMENT BASE, SERVICE TRENCH REVISED	MG

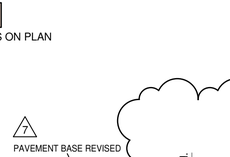
CONCRETE FOOTPATH PAVEMENT SLABS TO BE 110MIN. THICK, SL92 MESH TOP TYPICAL U.N.O.
DRIVEWAY/CARPARK PAVEMENT JOINT DETAILS SIMILAR AS NOTED

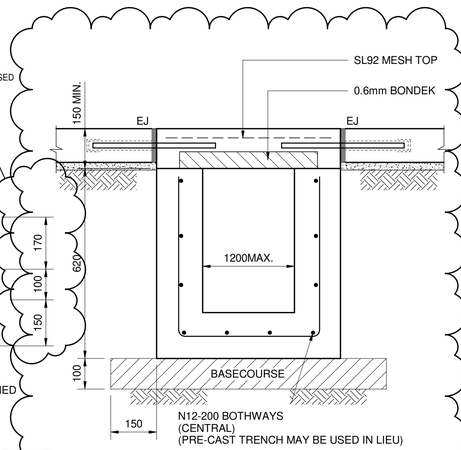
TYPICAL EXTERNAL FOOTPATH PAVEMENT DETAILS
SCALE 1:20
SHOWN THUS ON PLAN
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PAVEMENT TYPES AND LOCATIONS (USE AS REQUIRED)
NOTE: ALL JOINTS TO SUIT COLOURED CONCRETE LAYOUTS (PROVIDE EJ AT COLOURED CONCRETE JOINTS)



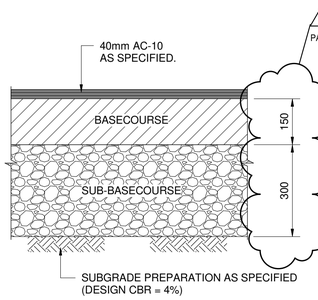
TYPICAL KERB RAMP (PLAN)
SCALE = 1:50
KERB RAMP DETAILS TO BE IN STRICT ACCORDANCE WITH ARMIDALE REGIONAL COUNCIL DETAILS

SECTION AT KERB RAMP CENTRELINE

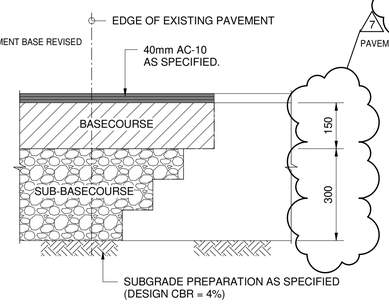




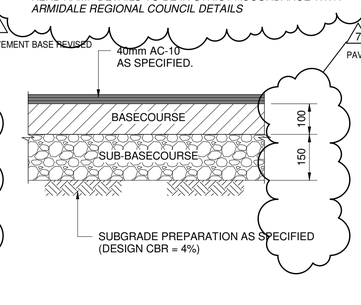
TYPICAL SERVICE TRENCH DETAIL
SCALE = 1:10
REFER TO MECHANICAL CONTRACTOR FOR SIZE & LOCATIONS



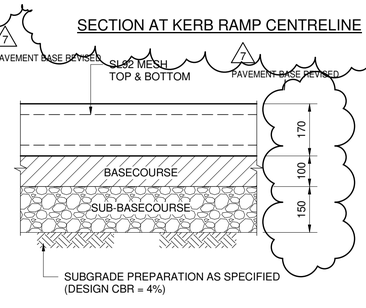
TYPICAL HEAVY DUTY ROAD PAVEMENT (ASPHALT)
SCALE = 1:10
DESIGN TRAFFIC LOADING = 1 x 10^6 ESA
SHOWN THUS ON PLAN



NEW TO EXISTING PAVEMENT SECTION
SCALE = 1:10
REMOVE A STRIP OF THE EXISTING PAVEMENT AT LEAST 100mm WIDE FOR IT'S FULL DEPTH. TRIM THE NEW EDGE TO AN ANGLE OF APPROX. 45 DEGREES IN STEPS OF 100mm MAXIMUM HEIGHT THEN PLACE NEW PAVEMENT MATERIAL. TRIM THE SEAL TO A NEAT EDGE USING PNEUMATIC TOOLS OR OTHER SUITABLE MEANS.

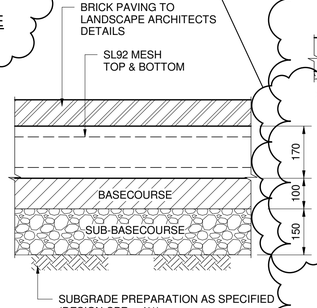


TYPICAL CARPARK PAVEMENT (ASPHALT)
SCALE = 1:10
DESIGN TRAFFIC LOADING = 1 x 10^5 ESA
SHOWN THUS ON PLAN



ROAD PAVEMENT JOINT DETAILS SIMILAR AS EXTERNAL FOOTPATH DETAILS ABOVE

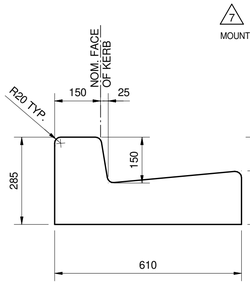
TYPICAL HEAVY DUTY ROAD PAVEMENT (CONCRETE)
SCALE = 1:10
DESIGN TRAFFIC LOADING = 1 x 10^6 ESA
SHOWN THUS ON PLAN



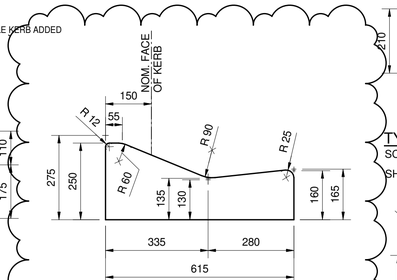
ROAD PAVEMENT JOINT DETAILS SIMILAR AS EXTERNAL FOOTPATH DETAILS ABOVE

TYPICAL HEAVY DUTY ROAD PAVEMENT (BRICK)
SCALE = 1:10
DESIGN TRAFFIC LOADING = 1 x 10^6 ESA
SHOWN THUS ON PLAN

TYPICAL ROAD PAVEMENT DETAILS
SCALE 1:10
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PAVEMENT TYPES AND LOCATIONS (USE AS REQUIRED)

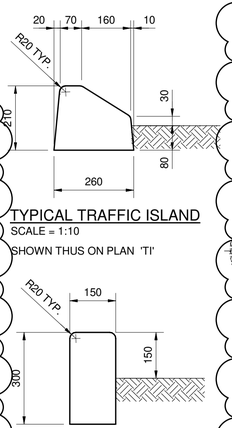


TYPICAL KERB & GUTTER
SCALE = 1:10
SHOWN THUS ON PLAN 'KG'



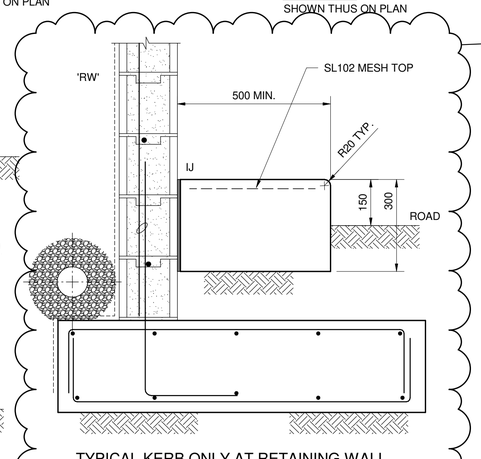
TYPICAL MOUNTABLE KERB & GUTTER
SCALE = 1:10
SHOWN THUS ON PLAN 'MKG'

PROVIDE FULL DEPTH 12mm BITUMEN IMPREGNATED FIBREBOARD JOINTS AT 8000mm MAX. CTS. U.N.O. DETAILS TO BE IN ACCORDANCE WITH ARMIDALE REGIONAL COUNSIL SPECIFICATIONS

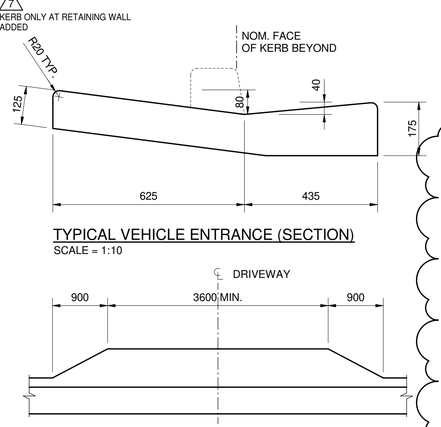


TYPICAL TRAFFIC ISLAND
SCALE = 1:10
SHOWN THUS ON PLAN 'TI'

TYPICAL KERB ONLY
SCALE = 1:10
SHOWN THUS ON PLAN 'KO'

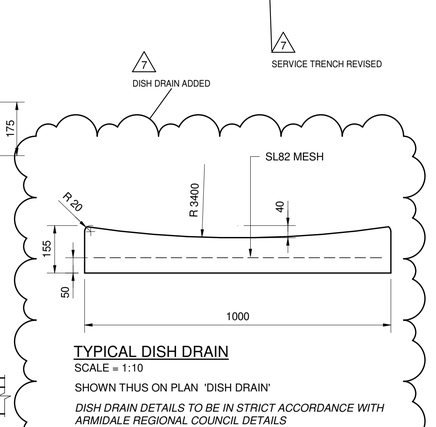


TYPICAL KERB ONLY AT RETAINING WALL
SCALE = 1:10
SHOWN THUS ON PLAN 'KO'
USE AS REQUIRED



TYPICAL VEHICLE ENTRANCE (SECTION)
SCALE = 1:10

TYPICAL VEHICLE ENTRANCE (PLAN)
SCALE = 1:50
CROSS OVER DETAILS TO BE IN STRICT ACCORDANCE WITH ARMIDALE REGIONAL COUNCIL DETAILS



TYPICAL DISH DRAIN
SCALE = 1:10
SHOWN THUS ON PLAN 'DISH DRAIN'
DISH DRAIN DETAILS TO BE IN STRICT ACCORDANCE WITH ARMIDALE REGIONAL COUNCIL DETAILS

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

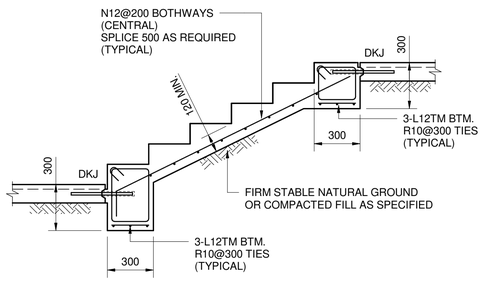
for
NSW Department of Education

Drawing Title
TYPICAL PAVEMENT DETAILS

Date 15/04/2020 8:52:56 AM
Scale 1:20, 1:10 @ A1

Drawing Reference 7070-BIRZ-C-011
Revision 7

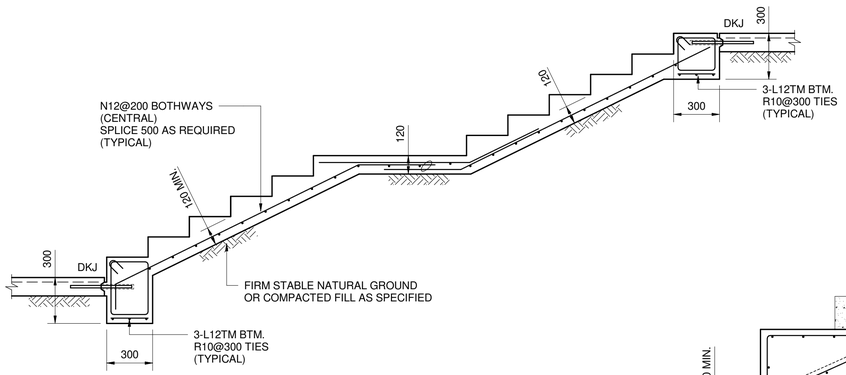
0 1 2 3 4 5 6 7 8 9 10



TYPICAL STAIR ON GROUND

SCALE 1:20

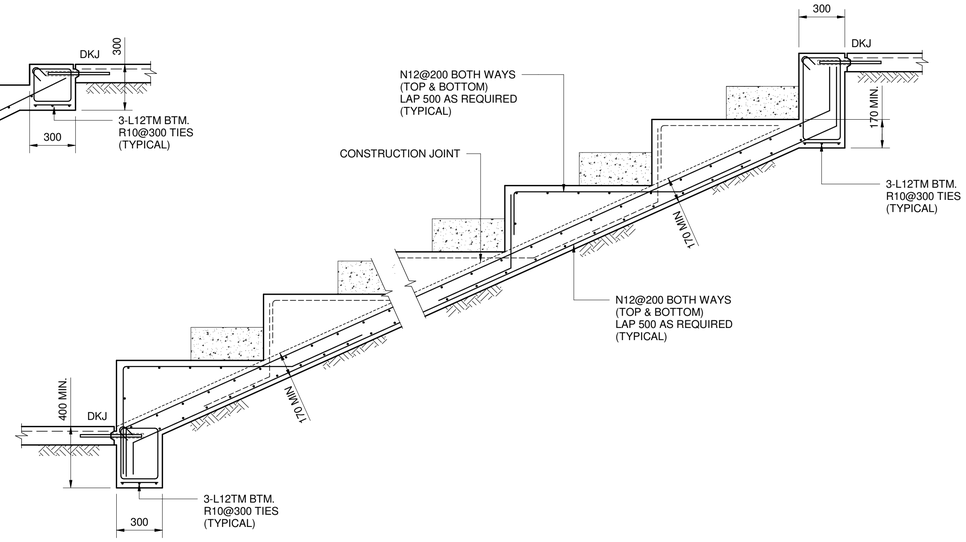
STAIR SET-OUT, NUMBER & SIZE OF TREADS
TO LANDSCAPE ARCHITECTS DETAILS (TYPICAL)



STAIR ON GROUND VARIATION

SCALE 1:20

STAIR SET-OUT, NUMBER & SIZE OF TREADS
TO LANDSCAPE ARCHITECTS DETAILS (TYPICAL)



TYPICAL TIERED SEATING DETAIL

SCALE 1:20

STAIR SET-OUT, NUMBER & SIZE OF TREADS
TO LANDSCAPE ARCHITECTS DETAILS (TYPICAL)

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Issue

No.	Date	Description	Approved
5	12.10.18	SSDA V2 SUBMISSION	MG

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SECURITY
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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
TYPICAL STAIR DETAILS

Date 21/04/2020 3:53:09 PM
Scale 1:20 @ A1

Drawing Reference
7070-BIRZ-C-012

Revision
5

0 1 2 3 4 5 6 7 8 9 10

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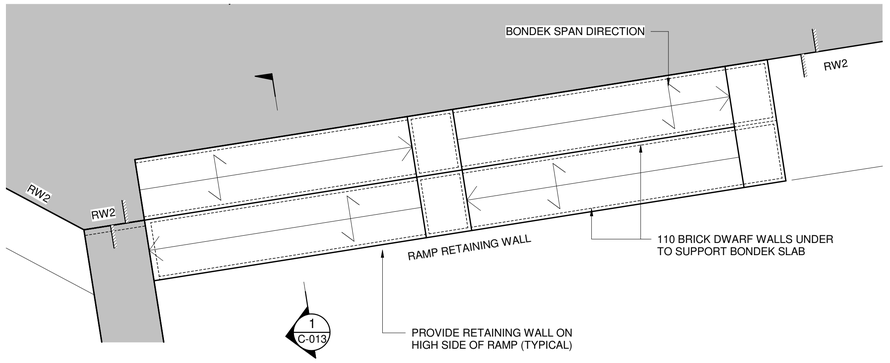
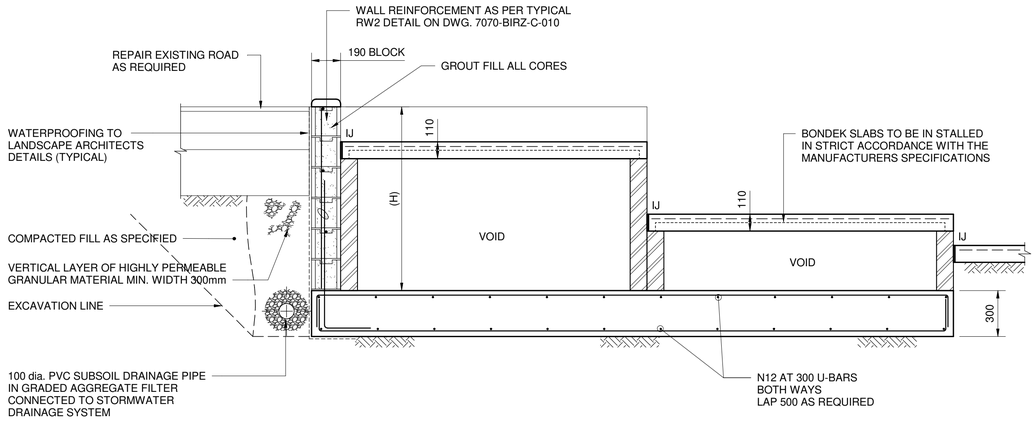


TYPICAL SUSPENDED RAMP DETAIL

SCALE 1 : 100

110 THICK "1.0mm BONDEK" SLAB

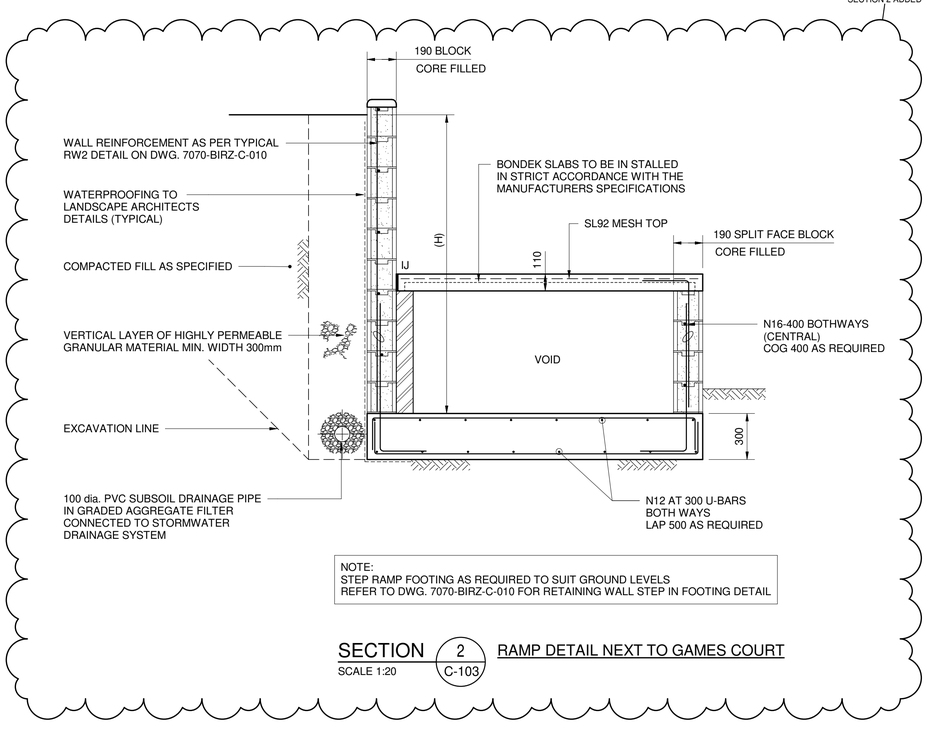
SL92 MESH TOP
(USE AS REQUIRED)



SECTION 1 C-013 — TYPICAL RAMP SECTION U.N.O.

SCALE 1 : 20

6
SECTION 2 ADDED



NOTE:
STEP RAMP FOOTING AS REQUIRED TO SUIT GROUND LEVELS
REFER TO DWG. 7070-BIRZ-C-010 FOR RETAINING WALL STEP IN FOOTING DETAIL

SECTION 2 C-103 — RAMP DETAIL NEXT TO GAMES COURT

SCALE 1:20

Issue

No.	Date	Description	Approved
6	15.04.20	SSDA V3 SUBMISSION - SECTION 2 ADDED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
SUSPENDED RAMP DETAILS

Date 15/04/2020 8:52:59 AM
Scale 1:100, 1:50, 1:20 @ A1

Drawing Reference 7070-BIRZ-C-013
Revision 6

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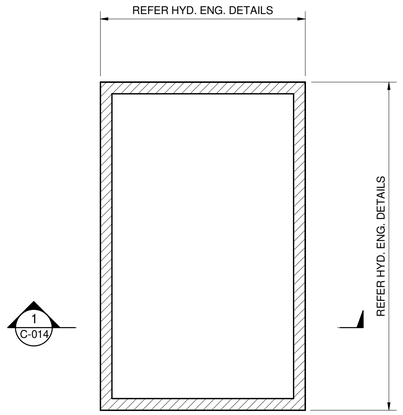
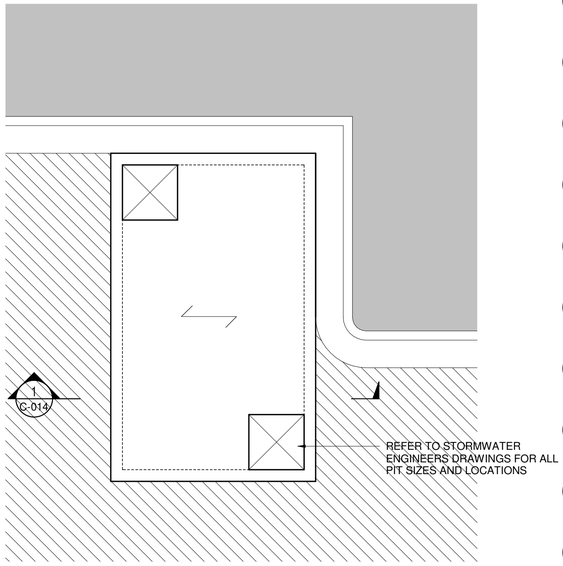


OSD TANK BASE PLAN

SCALE 1 : 50

250 THICK BASE SLAB, N12-300 BOTHWAYS T&B U-BARS

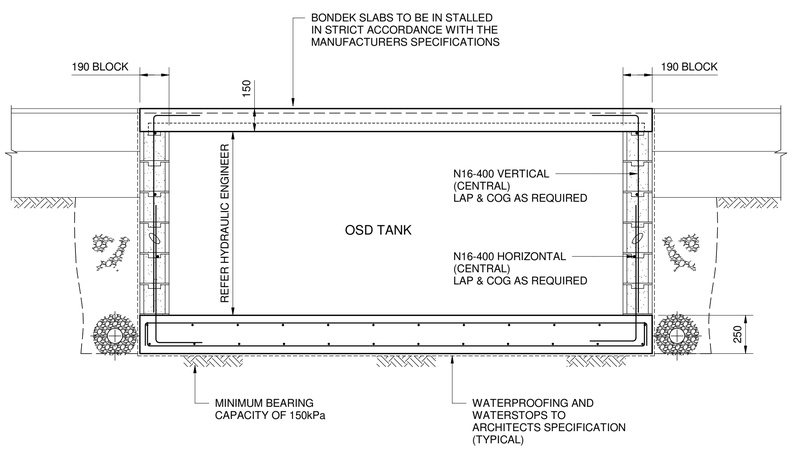


OSD TANK LID PLAN

SCALE 1 : 50

150 THICK 1.0mm BONDEK SLAB, N12-200 BOTHWAYS TOP

PROVIDE TEMPORARY PROPPING AS REQUIRED

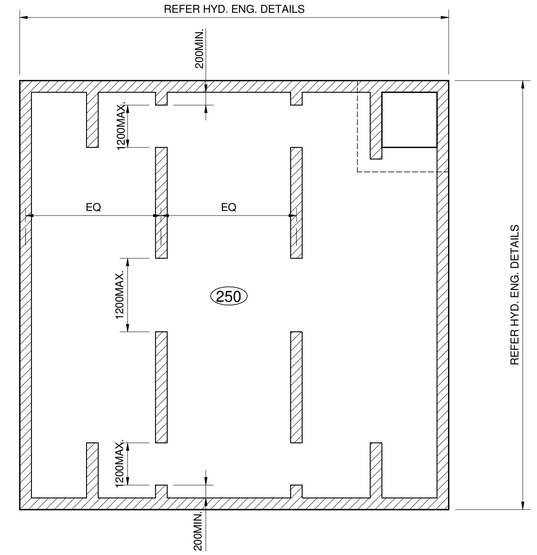


SECTION 1 / C-014

SCALE 1 : 20

TO BE READ IN CONJUNCTION WITH THE STORMWATER ENGINEERS DRAWINGS

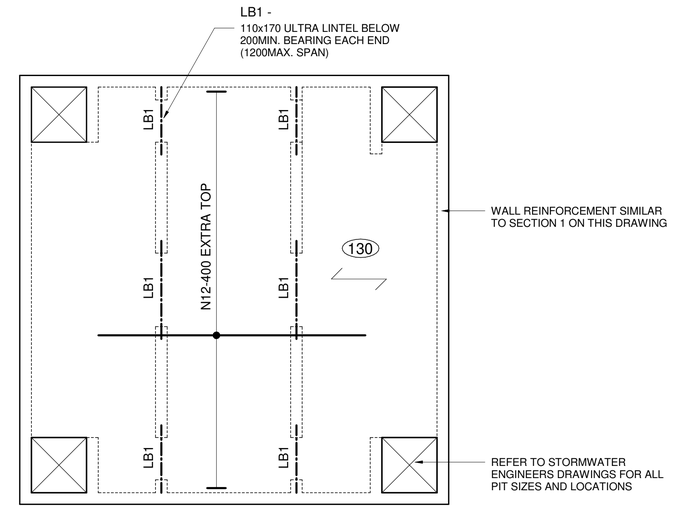
OSD TANK ADDED



OSD TANK 4 BASE PLAN

250 THICK BASE SLAB N12-300 BOTHWAYS TOP & BOTTOM

TO BE READ IN CONJUNCTION WITH STORMWATER DRAWINGS



OSD TANK 4 LID PLAN

130 THICK 1.0mm KF57 SLAB, SL82 MESH TOP + EXTRA N12-400 TOP

NO TEMPORARY PROPPING IS REQUIRED

TO BE READ IN CONJUNCTION WITH STORMWATER DRAWINGS

Issue

No.	Date	Description	Approved
6	20.08.20	SSDA V4 SUBMISSION	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
OSD TANK DETAILS

Date 20/08/2020 11:46:58 AM
Scale 1:50, 1:20 @ A1

Drawing Reference
7070-BIRZ-C-014

Revision
6

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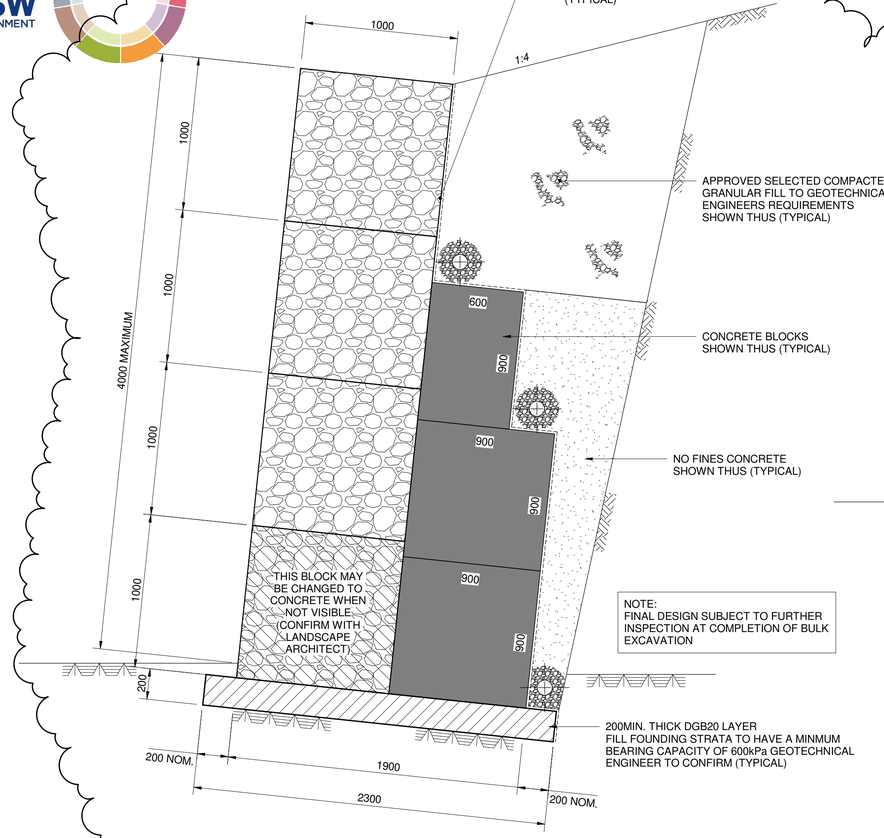
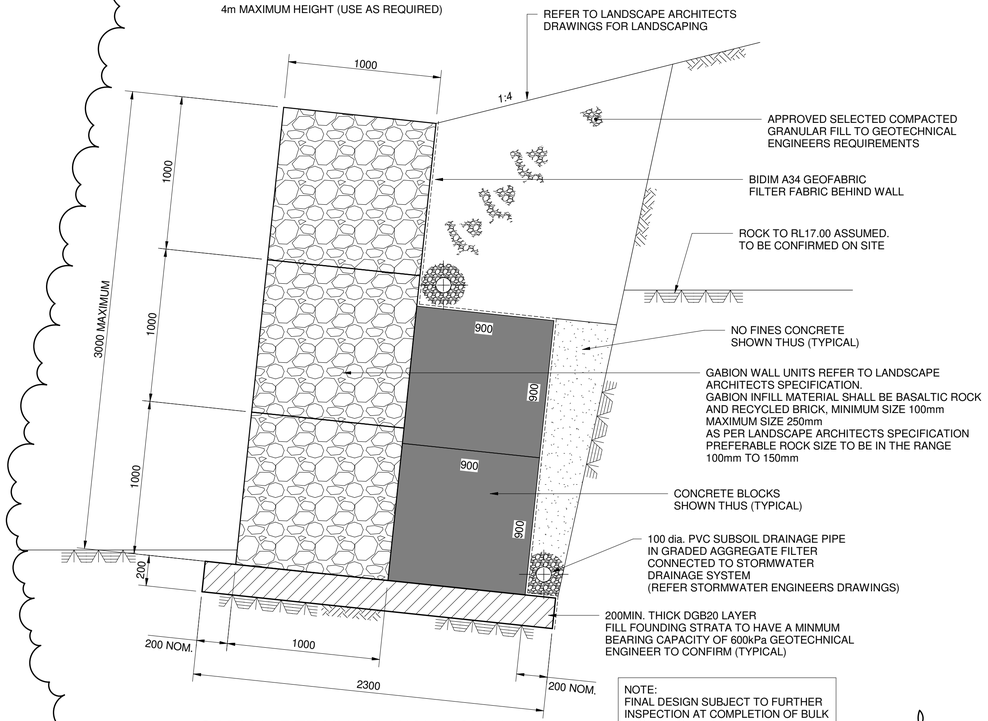


GABION RETAINING WALL (GW1)

SCALE 1:20

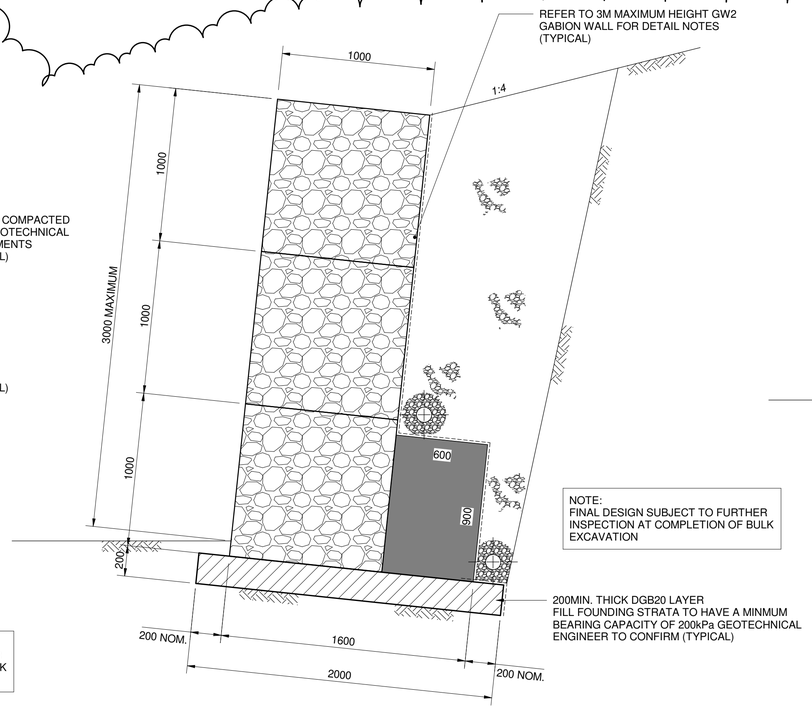
4m MAXIMUM HEIGHT (USE AS REQUIRED)



GABION RETAINING WALL (GW2)

SCALE 1:20

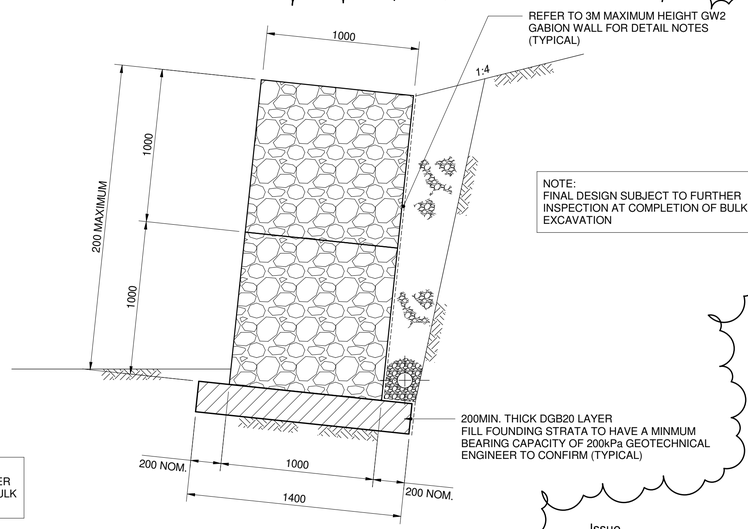
3m MAXIMUM HEIGHT (USE AS REQUIRED)



GABION RETAINING WALL (GW1)

SCALE 1:20

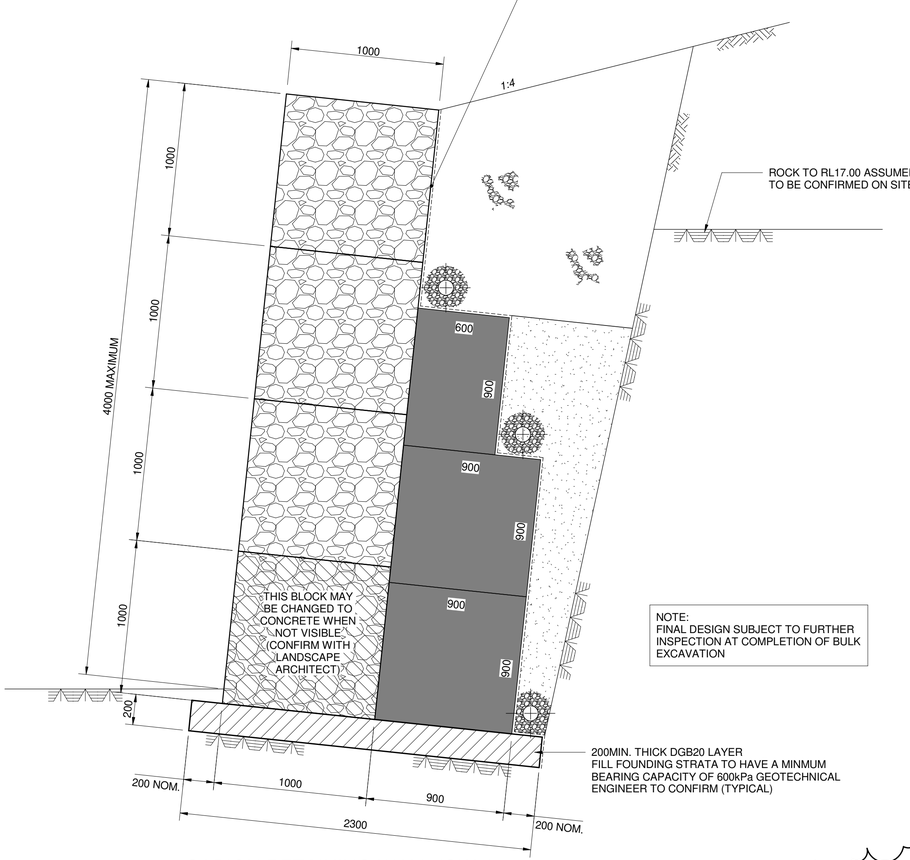
3m MAXIMUM HEIGHT (USE AS REQUIRED)



GABION RETAINING WALL (GW1)

SCALE 1:20

2m MAXIMUM HEIGHT (USE AS REQUIRED)



GABION RETAINING WALL (GW2)

SCALE 1:20

4m MAXIMUM HEIGHT (USE AS REQUIRED)

Issue

No.	Date	Description	Approved
6	15.04.20	SSDA V3 SUBMISSION - GABION WALLS REVISED	MG

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6 GABION WALLS REVISED

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
GABION WALL DETAILS

Date 15/04/2020 8:53:01 AM

Scale 1:20, 1:50 @ A1

Drawing Reference 7070-BIRZ-C-015

Revision 6

0 1 2 3 4 5 6 7 8 9 10

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STRUCTURAL STEEL

01. All workmanship and materials shall be in accordance with AS 4100 and AS 1554, except where varied by the contract documents.

02. Structural steel members shall be of the following grades unless noted otherwise on the drawings :

WB, WC, UB, UC, PFC, EA, UA	- Grade 300
RHS, SHS	- Grade 350
CHS with outside diameter equal to or exceeding 76mm	- Grade 350
CHS with diameter less than 76mm	- Grade 250
All other members	- Grade 250

03. The Contractor shall prepare workshop drawings and shall submit three copies of each drawing for review. Fabrication shall not commence until permission to use the relevant workshop drawings has been received. The contractor shall allow ten clear working days for this review of the workshop drawings.

04. Bolt Designation:

4.6/S	Denotes commercial bolts of grade 4.6 to AS 1111, snug tightened.
8.8/S	Denotes high strength structural bolts of grade 8.8 to AS 1252, snug tightened.
8.8/TB	Denotes high strength structural bolts of grade 8.8 to AS 1252, fully tensioned to AS 4100 as a bearing type joint.
8.8/TF	Denotes high strength structural bolts of grade 8.8 to AS 1252 fully tensioned to AS 4100 as a friction type joint with facing surfaces left uncoated.

05. Unless noted otherwise all bolts shall be M16 Grade 8.8/S. No connection shall have less than 2 bolts. All bolts, nuts and washers shall be hot dip galvanised.

06. /TB and /TF bolt categories shall be installed in accordance with Section 15 of AS 4100, using either the part-turn method or the direct-tension indicator method.

07. All welding shall be carried out in accordance with AS 1554.1. Electrodes shall be to either AS 1553, AS 1858, AS 2203 or AS 2717, as appropriate.

Unless noted otherwise, all fillet welds shall be 6mm continuous category SP using E48XX electrodes or equivalent. All butt welds shall be complete penetration butt welds category SP to AS 1554.1

The extent of non-destructive weld examination shall be as noted below. Radiographic or ultrasonic examination shall be to AS 1554.1, AS 2177.1 and AS 2207 as appropriate.

TYPE OF WELD AND CATEGORY	EXAMINATION METHOD	EXTENT (% OF TOTAL LENGTH OF WELD TYPE)
FILLET WELDS , GP + SP	VISUAL INSPECTION	100
BUTT WELDS, GP	VISUAL INSPECTION	100
BUTT WELDS, SP	VISUAL INSPECTION	100
	RADIOGRAPHIC OR ULTRASONIC INSPECTION	10

All exposed welds shall be ground smooth.

08. Unless noted otherwise all cleat plates shall be 10mm thick.

09. Provide seal plates to hollow sections, with "breather" holes if members are to be hot dip galvanised.

10. All steelwork shall be securely temporarily braced as necessary to stabilise the structure during erection.

11. The contractor shall provide all necessary trimming members and cleats and drill all holes necessary for fixing steel to steel and other elements to steel whether or not detailed on the drawings.

12. All beams and rafters shall be fabricated and erected with natural camber up.

13. All members shall be supplied in single lengths. Splices shall only be permitted in locations shown on the structural drawings.

14. Steelwork intended to be concrete encased shall be unpainted. Encasing concrete shall be grade N25 providing a cover adequate to suit fire rating or exposure conditions. Concrete encasement shall be centrally reinforced with 5mm wire to AS 4617 or 6mm structural grade bars to AS 4617 at 150mm pitch.

15. Structural steelwork shall have surfaces cleaned and treated in accordance with the Specification below unless noted otherwise :-

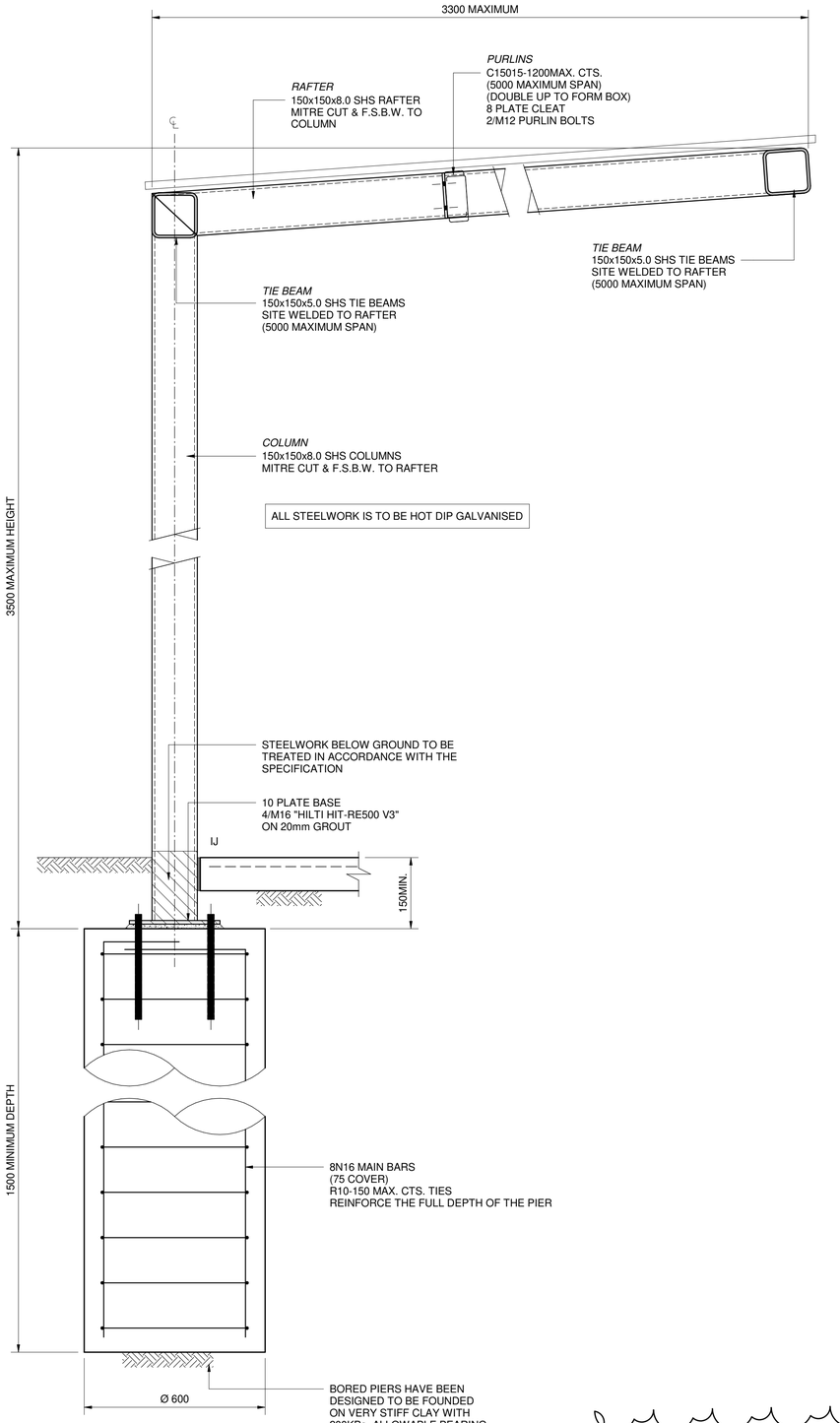
All external exposed steelwork shall have surfaces cleaned and treated in accordance with the Architect's specification.

All steelwork built into masonry shall be abrasive blast cleaned to a Class 3 finish in accordance with AS 1627 Part 4 and hot dip galvanised in accordance with AS 4680. The continuous average zinc coating mass shall be 600g/m2 (550g/m2 minimum).

All steelwork below finished floor level and finished ground level shall be abrasive blast cleaned to a Class 2.5 finish in accordance with AS 1627 Part 4 and painted with an epoxy paint complying with AS 2364 so that the minimum dry film thickness is 200 micrometres.

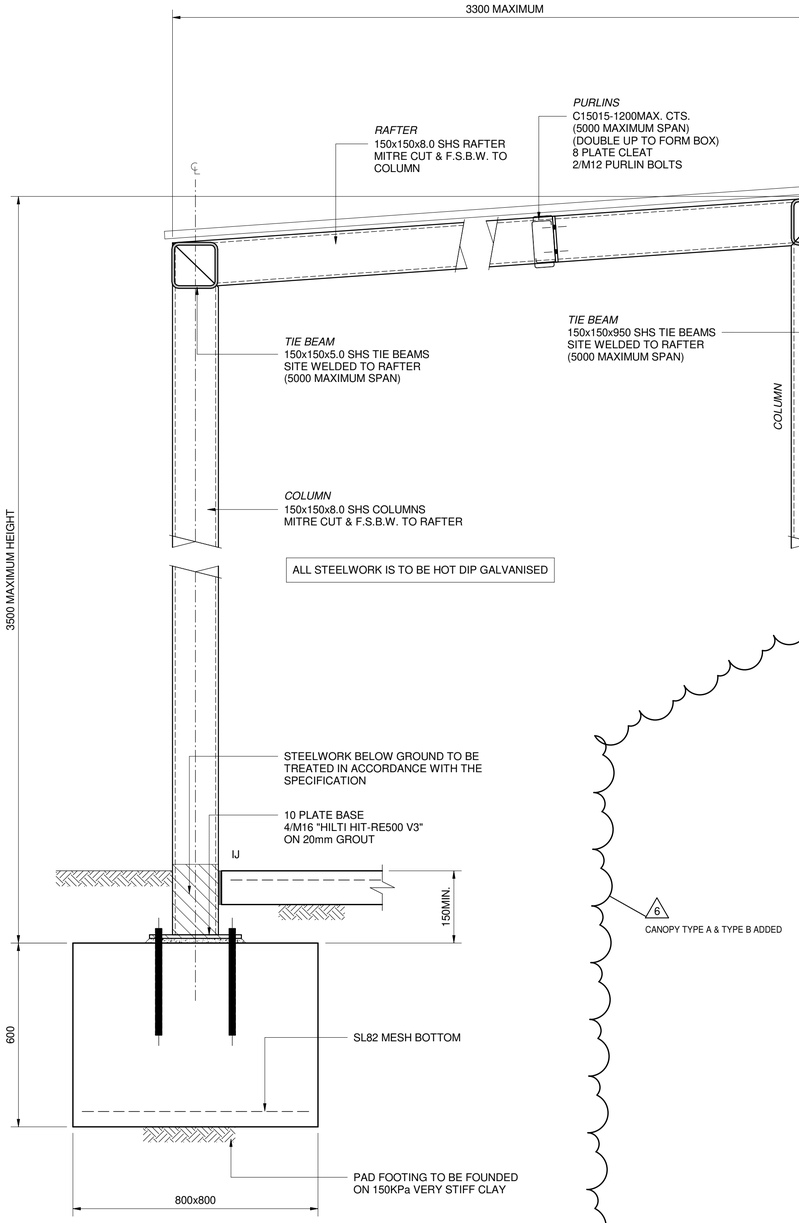
All other steelwork shall be abrasive blast cleaned to a Class 2.5 finish in accordance with AS 1627 Part 4 and painted with an inorganic zinc silicate paint complying with AS 2105 so that the minimum dry film thickness is 70 micrometres.

Refer to architectural drawings and specification for treatment of all steelwork that is fire rated.



CANOPY TYPE A

SCALE 1:10
(USE AS REQUIRED)
CANOPY TYPE A - REFER TO ARCHITECTS DRAWINGS FOR SET-OUT



CANOPY TYPE B

SCALE 1:10
(USE AS REQUIRED)
CANOPY TYPE B - REFER TO ARCHITECTS DRAWINGS FOR SET-OUT

Issue

No.	Date	Description	Approved
6	15.04.20	SSDA V3 SUBMISSION - CANOPY TYPE A & TYPE B ADDED	MG

6 CANOPY TYPE A & TYPE B ADDED

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
COVERED WAY DETAILS

Date 15/04/2020 8:53:02 AM
Scale 1:10 @ A1

Drawing Reference
7070-BIRZ-C-016

Revision
6

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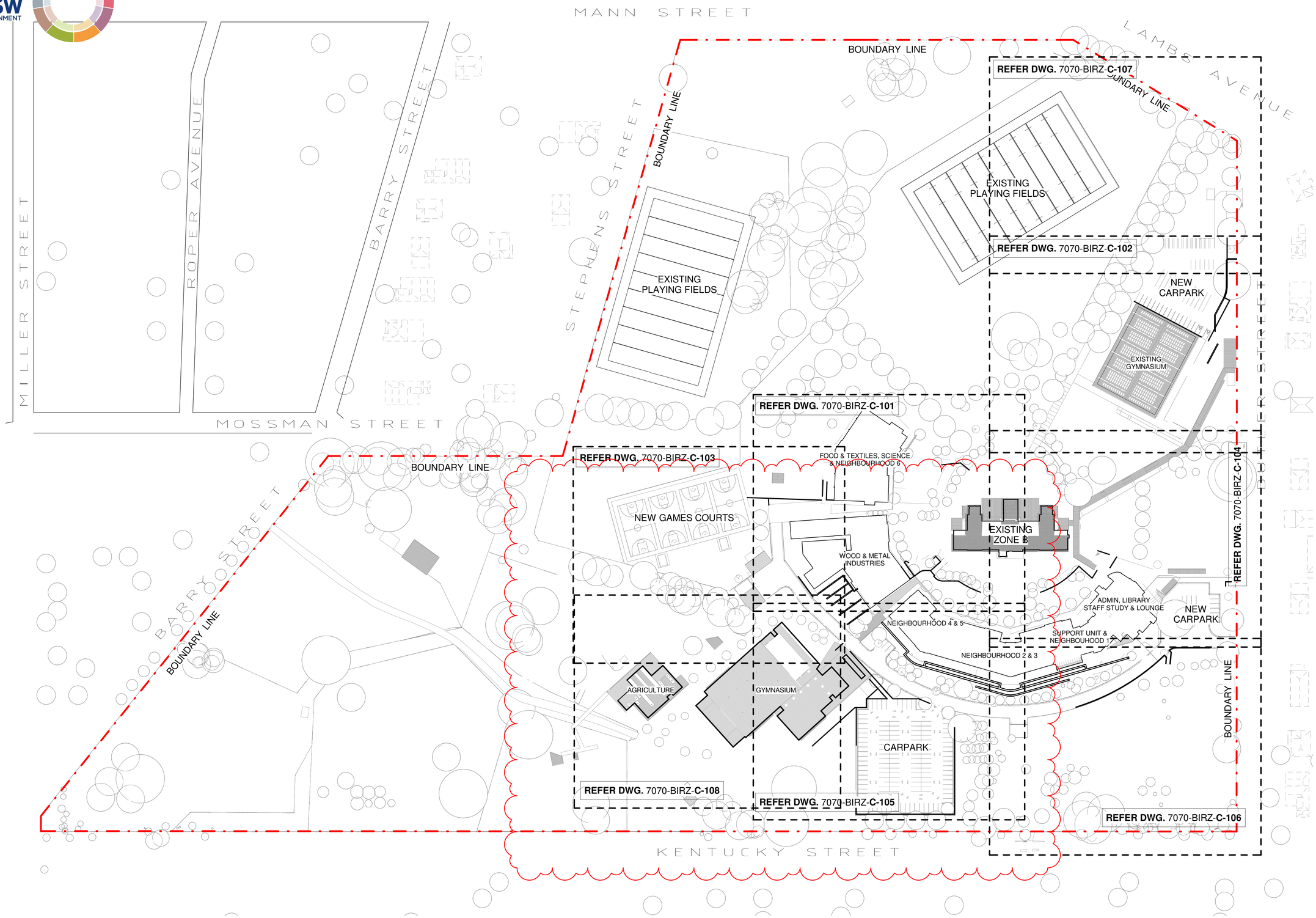

OVERALL SITE PLAN

SCALE 1 : 1000

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

Issue

No.	Date	Description	Approved
10	03.09.20	SSDA V4 SUBMISSION - GYMNASIUM ADDED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
OVERALL SITE PLAN

Date 2/09/2020 3:50:08 PM
Scale 1:1000 @ A1

Drawing Reference 7070-BIRZ-C-100
Revision 10

0 1 2 3 4 5 6 7 8 9 10

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PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR TREES & PLANTING SHOWN INDICATIVE ONLY (TYPICAL)

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL FOOTPATH PAVEMENT DETAILS CONFIRM PAVEMENT TYPES WITH THE LANDSCAPE ARCHITECT (TYPICAL)

EXISTING SEATING (C.O.S.)

EXISTING RETAINING WALL (C.O.S.)

EXISTING STAIRS (C.O.S.)

7 LAYOUT CHANGE

7 AC BASE ADDED

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

A/C

FOOD & TEXTILES, SCIENCE & NEIGHBOURHOOD 6

7 GREENHOUSE ADDED

GREENHOUSE SLAB REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

REFER TO DWG. 7070-BIRZ-C-103 FOR CONTINUATION

REFER TO DWG. 7070-BIRZ-C-104 FOR CONTINUATION

WALL TO FOLLOW RAMP

2 C-013

RW1 RW2

Sim X C-013

PROVIDE 100x50x2.0 DURAGAL RHS JOISTS AT 450MAX. CTS. SUPPORTED OFF "VERSIJACK" PEDESTAL SUPPORT SYSTEM AT 1800MAX. SPACING. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT & DETAILS. "VERSIJACKS" TO BE BUILT OFF 110 THICK PAVING SLAB

EXISTING BLOCK B

7 VERSIJACK DECK ADDED

A/C 200

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

REFER TO DWG. 7070-BIRZ-C-010 FOR TYPICAL RETAINING WALL DETAILS

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

MKG KO KG

7 SHED ADDED

GROUNDSKEEPER SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

7 BUILDING FOOTPRINT CHANGED

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PLANTER DETAILS (TYPICAL)

7 GABION WALL LAYOUT REVISED

WOOD & METAL INDUSTRIES

PROVIDE LAYBACK AT DOOR LOCATION

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL ROAD PAVEMENT DETAILS

7 RW5 ADDED

BUS SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

7 ROAD REVISED

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

A/C 200

MECH. TRENCH

GW1 GW2

OSD TANK UNDER REFER STRUCTURAL DRAWINGS FOR DETAILS

7 LAYOUT CHANGE

EXISTING RETAINING WALL (C.O.S.)

PROVIDE 100x50x2.0 DURAGAL RHS JOISTS AT 450MAX. CTS. SUPPORTED OFF "VERSIJACK" PEDESTAL SUPPORT SYSTEM AT 1800MAX. SPACING. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT & DETAILS. "VERSIJACKS" TO BE BUILT OFF 110 THICK PAVING SLAB

7 VERSIJACK DECK ADDED

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

REFER TO DWG. 7070-BIRZ-C-105 FOR CONTINUATION

PRINT IN COLOUR

LEGEND

- EXISTING BUILDING
- NEW BUILDING
- ROAD-CARPARK ASPHALT PAVEMENT
- FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- GAMES COURT PAVEMENT
- BRICK/CONCRETE FOOTPATH PAVEMENT
- BRICK/CONCRETE HEAVY DUTY PAVEMENT
- CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068
- GW1 GABION RETAINING WALL
- GW2 GABION RETAINING WALL
- RW1 BLOCK RETAINING WALL WITH BRICK FACING
- RW2 BLOCK RETAINING WALL
- RW3 BLOCK RETAINING WALL
- KG KERB & GUTTER
- KO KERB ONLY
- T1 TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
7	15.04.20	SSDA V3 SUBMISSION - AC BASE, GREENHOUSE, VERSIJACK DECK, SHED, RW5 ADDED. LAYOUT CHANGE, GABION WALL LAYOUT, BUILDING FOOTPRINT, ROAD REVISED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 15/04/2020 8:51:18 AM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-101
Revision 7

0 1 2 3 4 5 6 7 8 9 10

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PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR TREES & PLANTING SHOWN INDICATIVE ONLY (TYPICAL)

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL FOOTPATH PAVEMENT DETAILS CONFIRM PAVEMENT TYPES WITH THE LANDSCAPE ARCHITECT (TYPICAL)

EXISTING SEATING (C.O.S.)

EXISTING RETAINING WALL (C.O.S.)

EXISTING STAIRS (C.O.S.)

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

A/C

FOOD & TEXTILES, SCIENCE & NEIGHBOURHOOD 6

GREENHOUSE SLAB REFER TO STRUCTURAL DRAWING 7070-BIRZ-ZZ-S-1083 FOR DETAILS

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

8 GREENHOUSE MOVED

REFER TO DWG. 7070-BIRZ-C-0103 FOR CONTINUATION

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TEARED SEATING DETAILS

REFER TO DWG. 7070-BIRZ-C-104 FOR CONTINUATION

WALL TO FOLLOW RAMP

2 C-013

RW1

RW2

Sim X C-013

PROVIDE 100x50x2.0 DURAGAL RHS JOISTS AT 450MAX. CTS. SUPPORTED OFF "VERSIJACK" PEDESTAL SUPPORT SYSTEM AT 1800MAX. SPACING. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT & DETAILS. "VERSIJACKS" TO BE BUILT OFF 110 THICK PAVING SLAB

EXISTING BLOCK B

MKG

8 SHED MOVED

GROUNDSKEEPER SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

KO

KG

PROVIDE LAYBACK AT DOOR LOCATION

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PLANTER DETAILS (TYPICAL)

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

A/C 200

REFER TO DWG. 7070-BIRZ-C-010 FOR TYPICAL RETAINING WALL DETAILS

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

WOOD & METAL INDUSTRIES

EXISTING RETAINING WALL (C.O.S.)

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL ROAD PAVEMENT DETAILS

BUS SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

200 THICK AC PLANT BASE SLAB SL102 MESH TOP & BOTTOM

A/C 200

MECH. TRENCH

GW1

GW2

OSD TANK UNDER REFER STRUCTURAL DRAWINGS FOR DETAILS

PROVIDE 100x50x2.0 DURAGAL RHS JOISTS AT 450MAX. CTS. SUPPORTED OFF "VERSIJACK" PEDESTAL SUPPORT SYSTEM AT 1800MAX. SPACING. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT & DETAILS. "VERSIJACKS" TO BE BUILT OFF 110 THICK PAVING SLAB

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

REFER TO DWG. 7070-BIRZ-C-105 FOR CONTINUATION

PRINT IN COLOUR

LEGEND

	EXISTING BUILDING
	NEW BUILDING
	ROAD-CARPARK ASPHALT PAVEMENT
	FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
	HEAVY DUTY CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	GAMES COURT PAVEMENT
	BRICK/CONCRETE FOOTPATH PAVEMENT
	BRICK/CONCRETE HEAVY DUTY PAVEMENT
	CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068
GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
8	03.09.20	SSDA V4 SUBMISSION - GREENHOUSE MOVED, SHED REVISED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 2/09/2020 3:50:12 PM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-101
Revision 8

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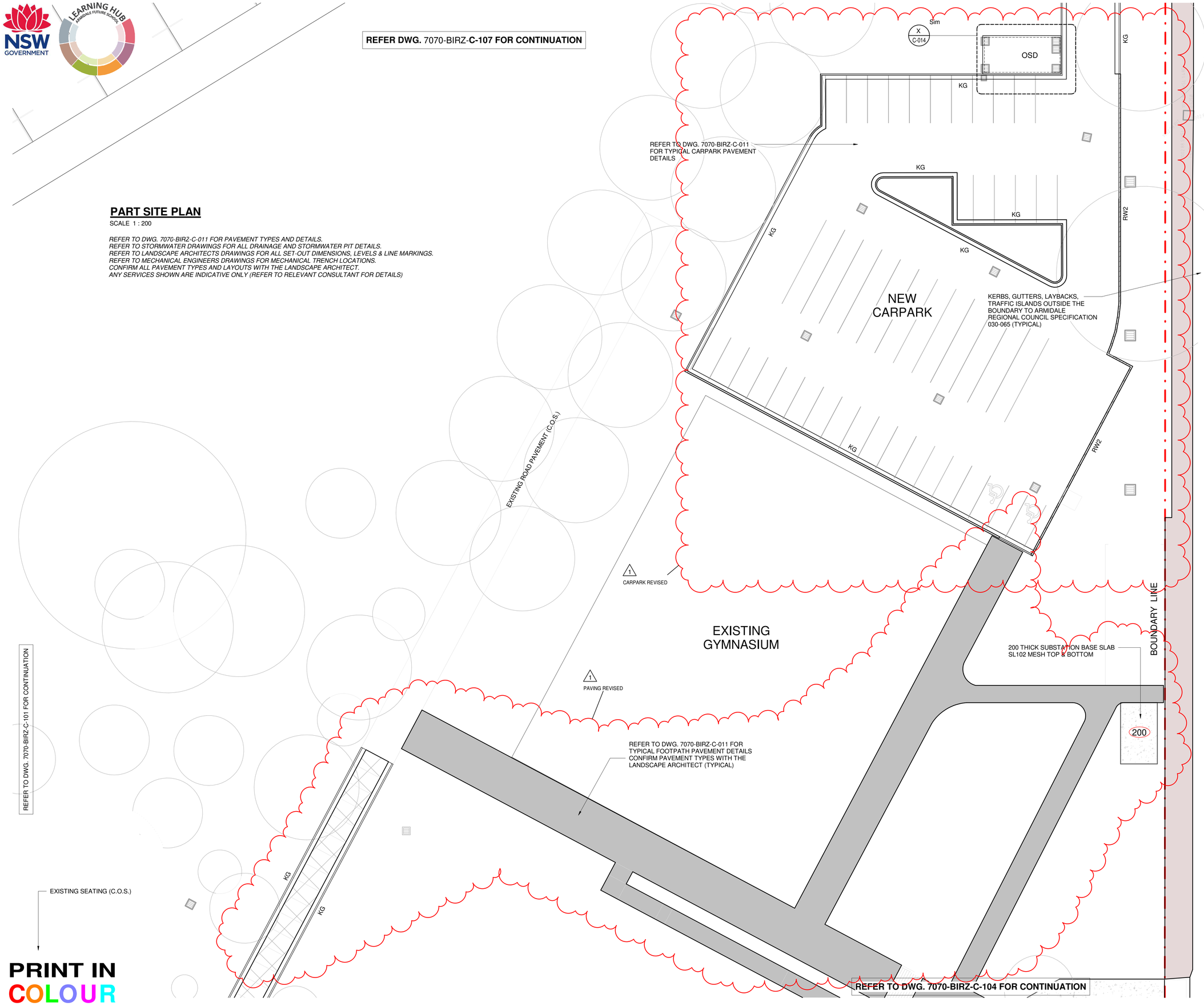
REFER DWG. 7070-BIRZ-**C-107 FOR CONTINUATION**

PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)



LEGEND

- EXISTING BUILDING
- NEW BUILDING
- ROAD-CARPARK ASPHALT PAVEMENT
- FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- GAMES COURT PAVEMENT
- BRICK/CONCRETE FOOTPATH PAVEMENT
- BRICK/CONCRETE HEAVY DUTY PAVEMENT
- CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068
- GW1 GABION RETAINING WALL
- GW2 GABION RETAINING WALL
- RW1 BLOCK RETAINING WALL WITH BRICK FACING
- RW2 BLOCK RETAINING WALL
- RW3 BLOCK RETAINING WALL
- KG KERB & GUTTER
- KO KERB ONLY
- T1 TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
1	14.04.20	SSDA V3 SUBMISSION - PAVING AND CARPARK REVISED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 15/04/2020 8:51:20 AM
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Drawing Reference
7070-BIRZ-C-102

Revision
1

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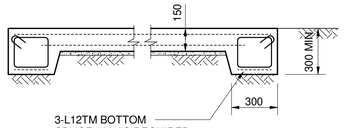
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ROOF FRAMING



LANDMARK SHELTER BASE SECTION

SCALE = 1:20

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR LOCATIONS

LEGEND

- EXISTING BUILDING
- NEW BUILDING
- ROAD-CARPARK ASPHALT PAVEMENT
- FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- GAMES COURT PAVEMENT
- BRICK/CONCRETE FOOTPATH PAVEMENT
- BRICK/CONCRETE HEAVY DUTY PAVEMENT
- CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068

GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

NEW GAMES COURTS
REFER TO DWG. 7070-BIRZ-C-011 FOR DETAILS

200 THICK AC PLANT BASE SLAB
SL102 MESH TOP & BOTTOM

A/C

REFER TO DWG. 7070-BIRZ-C-101 FOR CONTINUATION

GREENHOUSE MOVED

GREENHOUSE SLAB
REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

LOW HEIGHT WALL TO FOLLOW RAMP

2
C-013

RW2

WOOD & METAL INDUSTRIES

MKG

KO

KG

RW5

GW1

150

LANDMARK SHELTER BASE:
150 THICK SLAB, SL92 MESH TOP & BOTTOM.
300x300 DEEP EDGE BEAMS, 3-L12TM BTM. R10-300 TIES.
(REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ROOF FRAMING)

GROUNDSKEEPER SHED REVISED

GROUNDSKEEPER SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

PROVIDE LAYBACK AT DOOR LOCATION

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL ROAD PAVEMENT DETAILS

WASTE ENCLOSURE SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

BUS SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

BUS SHED SIMILAR P... TO GA SHED REFER TO ... STRUCTURAL ... DRAWINGS FOR R... DETAILS

200

GYMNASIUM ~~ADDED~~

OSD ~~TANK~~ ADDED

CHICKEN COOP
REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

2
C-014

PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

REFER TO DWG. 7070-BIRZ-C-108 FOR CONTINUATION

REFER TO DWG. 7070-BIRZ-C-105 FOR CONTINUATION

PRINT IN COLOUR

Issue

No.	Date	Description	Approved
8	03.09.20	SSDA V4 SUBMISSION - GYMNASIUM ADDED, OSD TANK ADDED, GREENHOUSE MOVED, GROUNDSKEEPER SHED REVISED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 2/09/2020 3:50:15 PM
Scale 1:200 @ A1

Drawing Reference
7070-BIRZ-C-103

Revision
8

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LEGEND

- EXISTING BUILDING
- NEW BUILDING
- ROAD-CARPARK ASPHALT PAVEMENT
- FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- GAMES COURT PAVEMENT
- BRICK/CONCRETE FOOTPATH PAVEMENT
- BRICK/CONCRETE HEAVY DUTY PAVEMENT
- CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068

GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
8	15.04.20	SSDA V3 SUBMISSION - VERSIJACK DECK, DRIVEWAY ADDED, CARPARK REVISED, LAYOUT REVISED, PAVING REVISED.	MG

REFER TO DWG. 7070-BIRZ-C-102 FOR CONTINUATION

HEAVY DUTY CROSSOVER TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-070 (TYPICAL)

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL FOOTPATH PAVEMENT DETAILS CONFIRM PAVEMENT TYPES WITH THE LANDSCAPE ARCHITECT (TYPICAL)

8 PAVING REVISED

CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068 (TYPICAL)

EX. STAIRS (C.O.S.)

REFER TO DWG. 7070-BIRZ-C-012 FOR TYPICAL STAIR & TIERED SEATING DETAILS

5m

X C-013

EX. RETAINING WALL (C.O.S.)

REFER TO DWG. 7070-BIRZ-C-0101 FOR CONTINUATION

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR TREES & PLANTING SHOWN INDICATIVE ONLY (TYPICAL)

BUTLER STREET

BOUNDARY LINE

KERBS, GUTTERS, LAYBACKS, TRAFFIC ISLANDS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-065 (TYPICAL)

COVERED WAYS (REFER TO ARCHITECTS DRAWINGS FOR SET-OUT):

columns - 150x150SHS (5000MAX. SPACING BETWEEN COLUMNS)
rafters - 150x150SHS
tie beams - 150x150SHS
purlins - C15015@1200MAX. CTS. (5000MAX. SPAN)
pad footings - 800x800x600 DEEP (FOUNDED ON 150KPa VERY STIFF CLAY)
piers - 600 DIAMETER

NOTE: ALL EXTERNAL STEELWORK TO BE HOT DIP GALVANISED.

REFER TO DWG. 7070-BIRZ-C-016 FOR TYPICAL DETAILS.

PROVIDE 100x50x2.0 DURAGAL RHS JOISTS AT 450MAX. CTS. SUPPORTED OFF "VERSIJACK" PEDESTAL SUPPORT SYSTEM AT 1800MAX. SPACING. REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT & DETAILS.
"VERSIJACKS" TO BE BUILT OFF 110 THICK PAVING SLAB

EXISTING BLOCK B

8 FLOORING ADDED

RW1 RW2 RW2

EX. RETAINING WALL (C.O.S.)

1011.6 1011.7 1011.8 1011.9 1013.8 1013.9 1014.0 1014.1

RW1 RW1 RW1

160

160 THICK PAVEMENT SLAB SL92 MESH TOP & BOTTOM

REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PLANTER DETAILS (TYPICAL)

ADMIN, LIBRARY STAFF STUDY & LOUNGE

8 CARPARK LAYOUT REVISED

SUPPORT UNIT & NEIGHBOUHOOD 1

KERB RAMPS TO ARMIDALE REGIONAL COUNCIL SPECIFICATIONS 030-069 (TYPICAL)

OSD TANK UNDER CARPARK REFER TO DWG. 7070-BIRZ-C-014 FOR DETAILS

X C-014

KG KO RW2

NEW CARPARK

REFER TO DWG. 7070-BIRZ-C-010 FOR TYPICAL CARPARK PAVEMENT DETAILS

HEAVY DUTY CROSSOVER TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-070 (TYPICAL)

REFER TO DWG. 7070-BIRZ-C-106 FOR CONTINUATION

BUTLER STREET

PART SITE PLAN
SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

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at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 15/04/2020 8:51:27 AM
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Drawing Reference 7070-BIRZ-C-104
Revision 8

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LEGEND

	EXISTING BUILDING
	NEW BUILDING
	ROAD-CARPARK ASPHALT PAVEMENT
	FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
	HEAVY DUTY CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	GAMES COURT PAVEMENT
	BRICK/CONCRETE FOOTPATH PAVEMENT
	BRICK/CONCRETE HEAVY DUTY PAVEMENT
GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
RW4	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
8	03.09.20	SSDA V4 SUBMISSION - GYMNASIUM ADDED, RETAINING WALL REVISED, GAS STORAGE ENCLOSURE MOVED	MG

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Drawing Title
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Date 2/09/2020 3:50:19 PM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-105
Revision 8

0 1 2 3 4 5 6 7 8 9 10

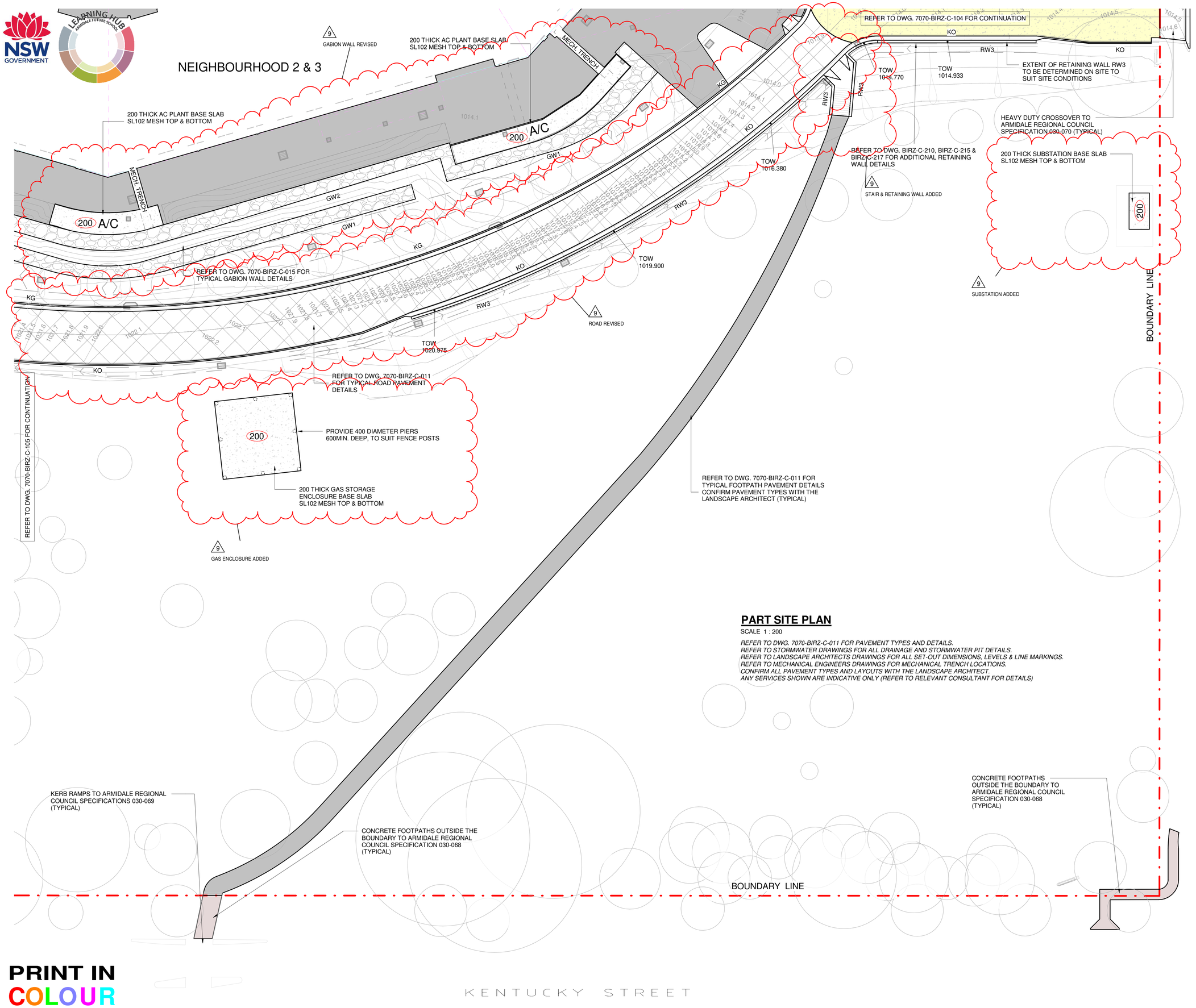
PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

PRINT IN COLOUR

BOUNDARY LINE



PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
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LEGEND

- EXISTING BUILDING
- NEW BUILDING
- ROAD-CARPARK ASPHALT PAVEMENT
- FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- GAMES COURT PAVEMENT
- BRICK/CONCRETE FOOTPATH PAVEMENT
- BRICK/CONCRETE HEAVY DUTY PAVEMENT
- CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068

GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
9	15.04.20	SSDA V3 SUBMISSION - SUB STATION, GAS ENCLOSURE, STAIRS & RETAINING WALLS ADDED. ROAD, GABION WALL LAYOUT REVISED	MG

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www.birzulisassociates.com

Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 15/04/2020 8:51:33 AM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-106
Revision 9

0 1 2 3 4 5 6 7 8 9 10

NEIGHBOURHOOD 2 & 3

200 THICK AC PLANT BASE SLAB
SL102 MESH TOP & BOTTOM

MECH. TRENCH

200 A/C

GW1

GW2

KG

KO

RW3

TOW 1016.380

TOW 1019.900

TOW 1020.975

REFER TO DWG. 7070-BIRZ-C-015 FOR TYPICAL GABION WALL DETAILS

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL ROAD PAVEMENT DETAILS

REFER TO DWG. 7070-BIRZ-C-104 FOR CONTINUATION

TOW 1014.770

TOW 1014.933

RW3

EXTENT OF RETAINING WALL RW3 TO BE DETERMINED ON SITE TO SUIT SITE CONDITIONS

HEAVY DUTY CROSSOVER TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-070 (TYPICAL)

REFER TO DWG. BIRZ-C-210, BIRZ-C-215 & BIRZ-C-217 FOR ADDITIONAL RETAINING WALL DETAILS

200 THICK SUBSTATION BASE SLAB
SL102 MESH TOP & BOTTOM

BOUNDARY LINE

PROVIDE 400 DIAMETER PIERS
600MIN. DEEP, TO SUIT FENCE POSTS

200 THICK GAS STORAGE
ENCLOSURE BASE SLAB
SL102 MESH TOP & BOTTOM

GAS STORAGE ENCLOSURE MOVED

REFER TO DWG. 7070-BIRZ-C-105 FOR CONTINUATION

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL FOOTPATH PAVEMENT DETAILS
CONFIRM PAVEMENT TYPES WITH THE LANDSCAPE ARCHITECT (TYPICAL)

KERB RAMPS TO ARMIDALE REGIONAL COUNCIL SPECIFICATIONS 030-069 (TYPICAL)

CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068 (TYPICAL)

CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068 (TYPICAL)

BOUNDARY LINE

PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIR2-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
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KENTUCKY STREET

BUTLER STREET

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LEGEND

	EXISTING BUILDING
	NEW BUILDING
	ROAD-CARPARK ASPHALT PAVEMENT
	FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
	HEAVY DUTY CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	GAMES COURT PAVEMENT
	BRICK/CONCRETE FOOTPATH PAVEMENT
	BRICK/CONCRETE HEAVY DUTY PAVEMENT
	CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068
GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
10	03.09.20	SSDA V4 SUBMISSION - GAS STORAGE ENCLOSURE MOVED	MG

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www.birzulisassociates.com

Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 2/09/2020 3:50:22 PM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-106
Revision 10

0 1 2 3 4 5 6 7 8 9 10

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LEGEND

	EXISTING BUILDING
	NEW BUILDING
	ROAD-CARPARK ASPHALT PAVEMENT
	FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
	HEAVY DUTY CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	GAMES COURT PAVEMENT
	BRICK/CONCRETE FOOTPATH PAVEMENT
	BRICK/CONCRETE HEAVY DUTY PAVEMENT
	CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068
GW1	GABION RETAINING WALL
GW2	GABION RETAINING WALL
RW1	BLOCK RETAINING WALL WITH BRICK FACING
RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
1	14.04.20	SSDA V3 SUBMISSION - PAVING AND CARPARK REVISED	MG

PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL SET-OUT DIMENSIONS, LEVELS & LINE MARKINGS.
REFER TO MECHANICAL ENGINEERS DRAWINGS FOR MECHANICAL TRENCH LOCATIONS.
CONFIRM ALL PAVEMENT TYPES AND LAYOUTS WITH THE LANDSCAPE ARCHITECT.
ANY SERVICES SHOWN ARE INDICATIVE ONLY (REFER TO RELEVANT CONSULTANT FOR DETAILS)

BOUNDARY LINE

EXISTING
PLAYING FIELDS

1
CARPARK & PAVING REVISED

CONCRETE FOOTPATHS OUTSIDE THE BOUNDARY TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-068 (TYPICAL)

HEAVY DUTY CROSSOVER TO ARMIDALE REGIONAL COUNCIL SPECIFICATION 030-070 (TYPICAL)

OSD TANK REFER TO DWG. 7070-BIRZ-C-014 FOR DETAILS

X Sim
C-014

OSD

KG

REFER TO DWG. 7070-BIRZ-C-011 FOR TYPICAL CARPARK PAVEMENT DETAILS

REFER DWG. 7070-BIRZ-**C-102 FOR CONTINUATION**

PRINT IN COLOUR

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 15/04/2020 8:51:34 AM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-107
Revision 1

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REFER TO DWG. 7070-BIRZ-C-0103 FOR CONTINUATION

BUS SHED SIMILAR TO GA SHED REFER TO STRUCTURAL DRAWINGS FOR DETAILS

KO

KO

GYMNASIUM ADDED

CHICKEN COOP REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

OSD TANK ADDED

2
C-014

AGRICULTURE

GYMNASIUM

GREENHOUSE & CHICKEN COUP MOVED

GREENHOUSE SLAB REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

CHICKEN COOP REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

RETAINING WALL REVISED

PIG SHED REFER TO STRUCTURAL DRAWING 7070-BIRZ-Z8-S-1083 FOR DETAILS

REFER TO DWG. 7070-BIRZ-C-105 FOR CONTINUATION

PART SITE PLAN

SCALE 1 : 200

REFER TO DWG. 7070-BIRZ-C-011 FOR PAVEMENT TYPES AND DETAILS.
REFER TO STORMWATER DRAWINGS FOR ALL DRAINAGE AND STORMWATER PIT DETAILS.
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PRINT IN COLOUR

LEGEND

	EXISTING BUILDING
	NEW BUILDING
	ROAD-CARPARK ASPHALT PAVEMENT
	FOOTPATH PAVEMENT CONFIRM PAVEMENT TYPE & COLOUR WITH THE LANDSCAPE ARCHITECT
	HEAVY DUTY CONCRETE PAVEMENT
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RW2	BLOCK RETAINING WALL
RW3	BLOCK RETAINING WALL
KG	KERB & GUTTER
KO	KERB ONLY
T1	TRAFFIC ISLAND

Issue

No.	Date	Description	Approved
2	03.09.20	SSDA V4 SUBMISSION - GYMNASIUM BUILDING ADDED, OSD TANK ADDED, RETAINING WALL REVISED,GREENHOUSE & CHICKEN COUP MOVED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
PART SITE PLAN

Date 2/09/2020 3:50:28 PM
Scale 1:200 @ A1

Drawing Reference 7070-BIRZ-C-108
Revision 2

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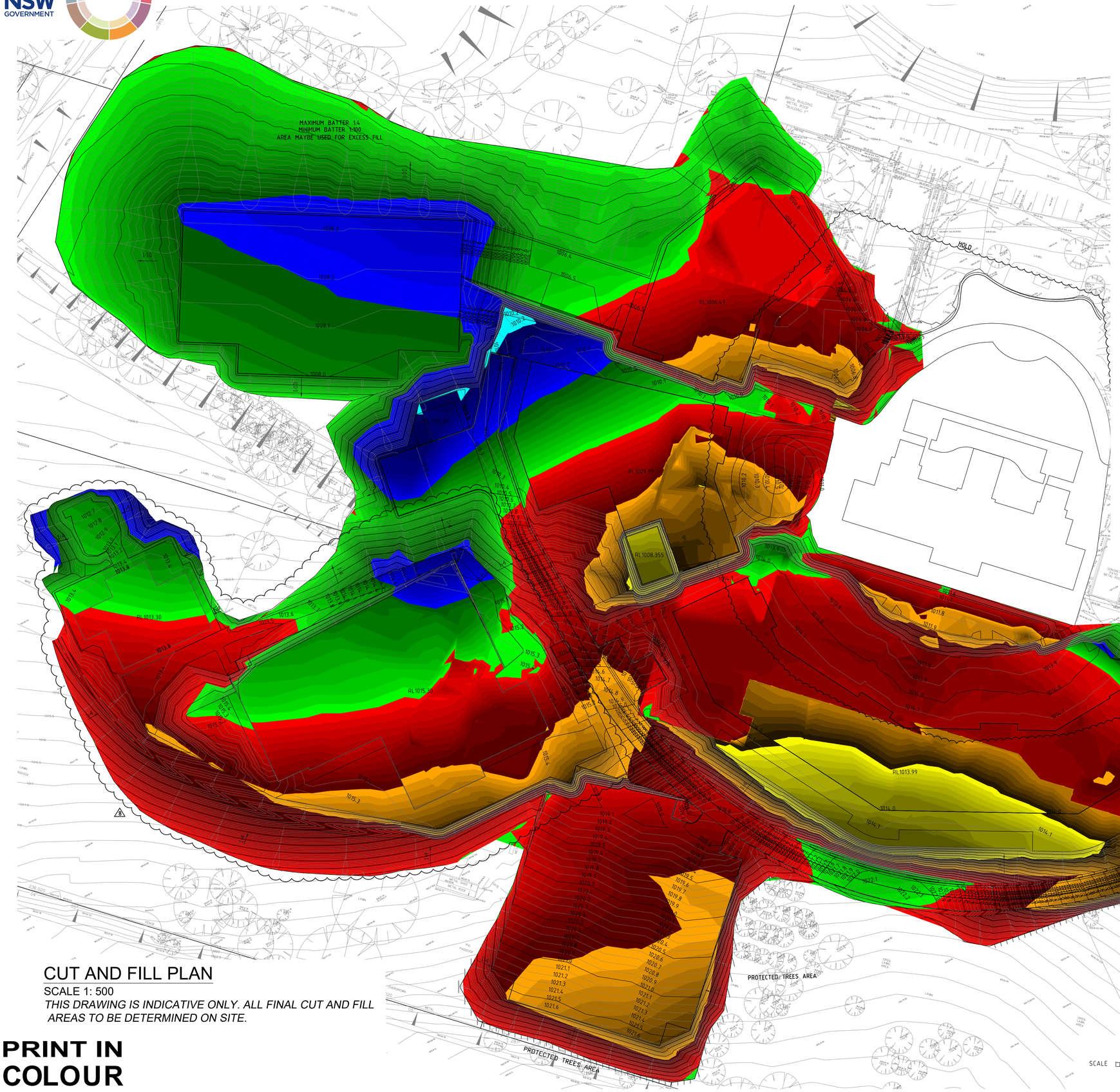

CUT AND FILL DEPTH RANGE				
Lower_value		Upper_value		Colour
-30.0	to	-5.8	m	
-5.8	to	-5.6	m	
-5.6	to	-5.4	m	
-5.4	to	-5.2	m	
-5.2	to	-5.0	m	
-5.0	to	-4.8	m	
-4.8	to	-4.6	m	
-4.6	to	-4.4	m	
-4.4	to	-4.2	m	
-4.2	to	-4.0	m	
-4.0	to	-3.8	m	
-3.8	to	-3.6	m	
-3.6	to	-3.4	m	
-3.4	to	-3.2	m	
-3.2	to	-3.0	m	
-3.0	to	-2.8	m	
-2.8	to	-2.6	m	
-2.6	to	-2.4	m	
-2.4	to	-2.2	m	
-2.2	to	-2.0	m	
-2.0	to	-1.8	m	
-1.8	to	-1.6	m	
-1.6	to	-1.4	m	
-1.4	to	-1.2	m	
-1.2	to	-1.0	m	
-1.0	to	-0.8	m	
-0.8	to	-0.6	m	
-0.6	to	-0.4	m	
-0.4	to	-0.2	m	
-0.2	to	0.0	m	

CUT AND FILL DEPTH RANGE				
Lower_value		Upper_value		Colour
0.0	to	0.2	m	
0.2	to	0.4	m	
0.4	to	0.6	m	
0.6	to	0.8	m	
0.8	to	1.0	m	
1.0	to	1.2	m	
1.2	to	1.4	m	
1.4	to	1.6	m	
1.6	to	1.8	m	
1.8	to	2.0	m	
2.0	to	2.2	m	
2.2	to	2.4	m	
2.4	to	2.6	m	
2.6	to	2.8	m	
2.8	to	3.0	m	
3.0	to	3.2	m	
3.2	to	3.4	m	
3.4	to	3.6	m	
3.6	to	3.8	m	
3.8	to	4.0	m	
4.0	to	4.2	m	
4.2	to	4.4	m	
4.4	to	4.6	m	
4.6	to	4.8	m	
4.8	to	5.0	m	
5.0	to	5.2	m	
5.2	to	5.4	m	
5.4	to	5.6	m	
5.6	to	5.8	m	
5.8	to	300	m	

FOR CONSTRUCTION

Issue

No.	Date	Description	Chkd
8	20.08.20	SSDA V4 SUBMISSION GYM ADDED & LEVELS AMENDED	MG

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Project
ARMIDALE SECONDARY SCHOOL

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
CUT & FILL PLAN

CUT AND FILL PLAN

SCALE 1: 500

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PRINT IN COLOUR

Drawing Reference
7070-BIRZ-C-200

Revision
8

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NSW GOVERNMENT

LEARNING HUB
ARMIDALE FUTURE SCHOOL