

DRAWING NUMBER	DRAWING TITLE
C201-0001	COVER SHEET AND DRAWING INDEX
C201-0101	CONSTRUCTION NOTES
C201-0201	KEY PLAN
C205-0001	GENERAL ARRANGEMENT AND GRADING PLAN - SHEET 1
C205-0002	GENERAL ARRANGEMENT AND GRADING PLAN - SHEET 2
C205-0003	GENERAL ARRANGEMENT AND GRADING PLAN - SHEET 3
C205-0004	GENERAL ARRANGEMENT AND GRADING PLAN - SHEET 4
C208-0001	STORMWATER MANAGEMENT PLAN - SHEET 1
C208-0002	STORMWATER MANAGEMENT PLAN - SHEET 2
C208-0003	STORMWATER MANAGEMENT PLAN - SHEET 3
C208-0004	STORMWATER MANAGEMENT PLAN - SHEET 4
C208-0101	STORMWATER LONGITUDINAL SECTIONS - SHEET 1
C208-0102	STORMWATER LONGITUDINAL SECTIONS - SHEET 2
C208-0103	STORMWATER LONGITUDINAL SECTIONS - SHEET 3
C208-0104	STORMWATER LONGITUDINAL SECTIONS - SHEET 4
C208-0301	STORMWATER CATCHMENT PLAN
C208-0401	STORMWATER DETAILS - SHEET 1
C208-0402	STORMWATER DETAILS - SHEET 2
C209-0001	PAVEMENT AND JOINTING PLAN - SHEET 1
C209-0002	PAVEMENT AND JOINTING PLAN - SHEET 2
C209-0003	PAVEMENT AND JOINTING PLAN - SHEET 3
C209-0004	PAVEMENT AND JOINTING PLAN - SHEET 4
C209-0201	PAVEMENT DETAILS - SHEET 1
C209-0202	PAVEMENT DETAILS - SHEET 2
C209-0203	PAVEMENT DETAILS - SHEET 3
C209-0204	PAVEMENT DETAILS - SHEET 4
C210-0101	RETAINING WALL NOTES AND DETAILS
C211-0001	EXISTING UTILITIES PLAN - SHEET 1
C211-0002	EXISTING UTILITIES PLAN - SHEET 2
C211-0003	EXISTING UTILITIES PLAN - SHEET 3
C211-0004	EXISTING UTILITIES PLAN - SHEET 4









SHEET 1

SHEET 2

LEGEND



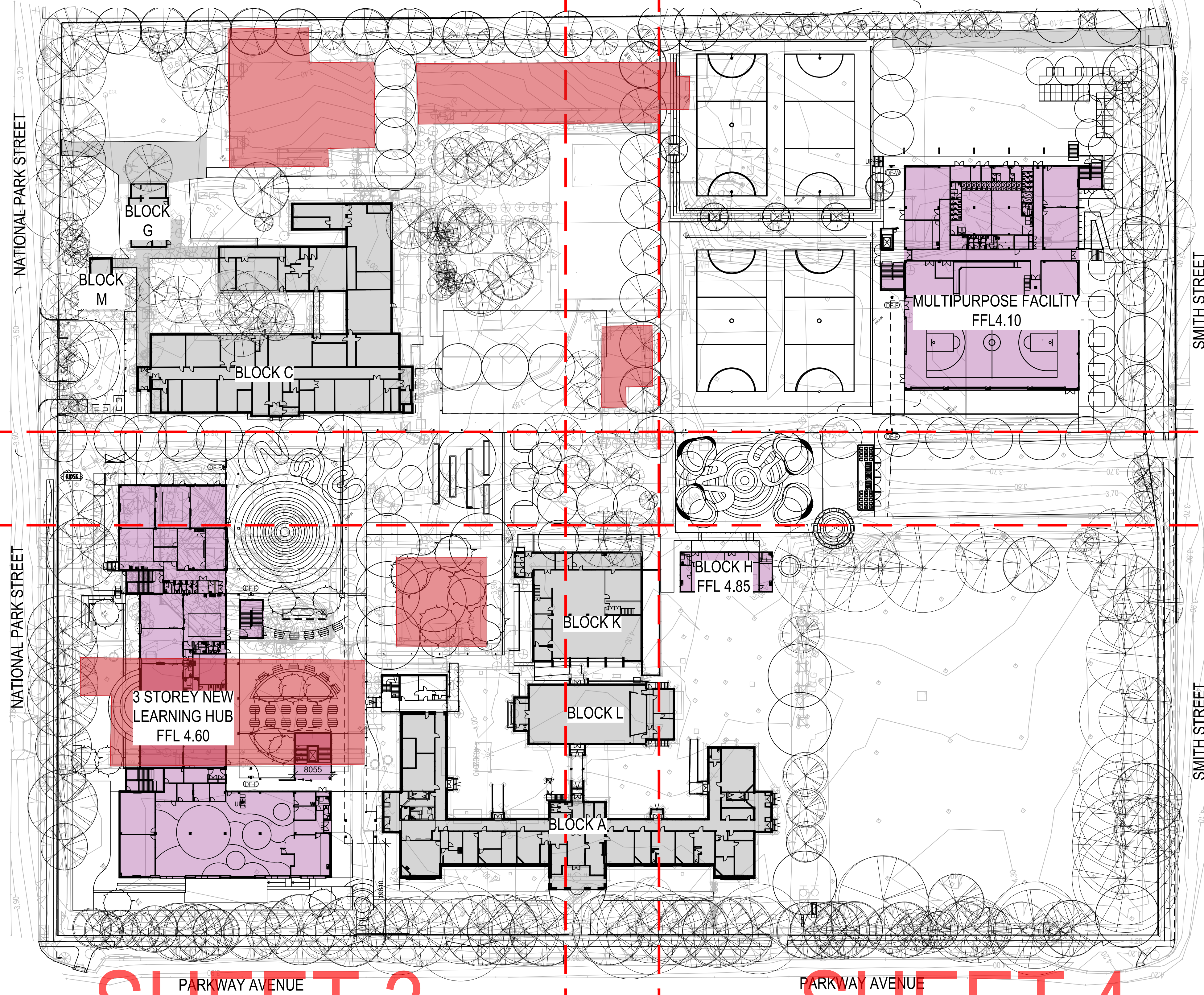
EXISTING BUILDING / STRUCTURE  
TO BE RETAINED



PROPOSED BUILDING



EXISTING BUILDING / STRUCTURE  
TO BE DEMOLISHED.  
REFER TO ARCHITECTURAL  
PLANS FOR DETAILS



SHEET 3

SHEET 4



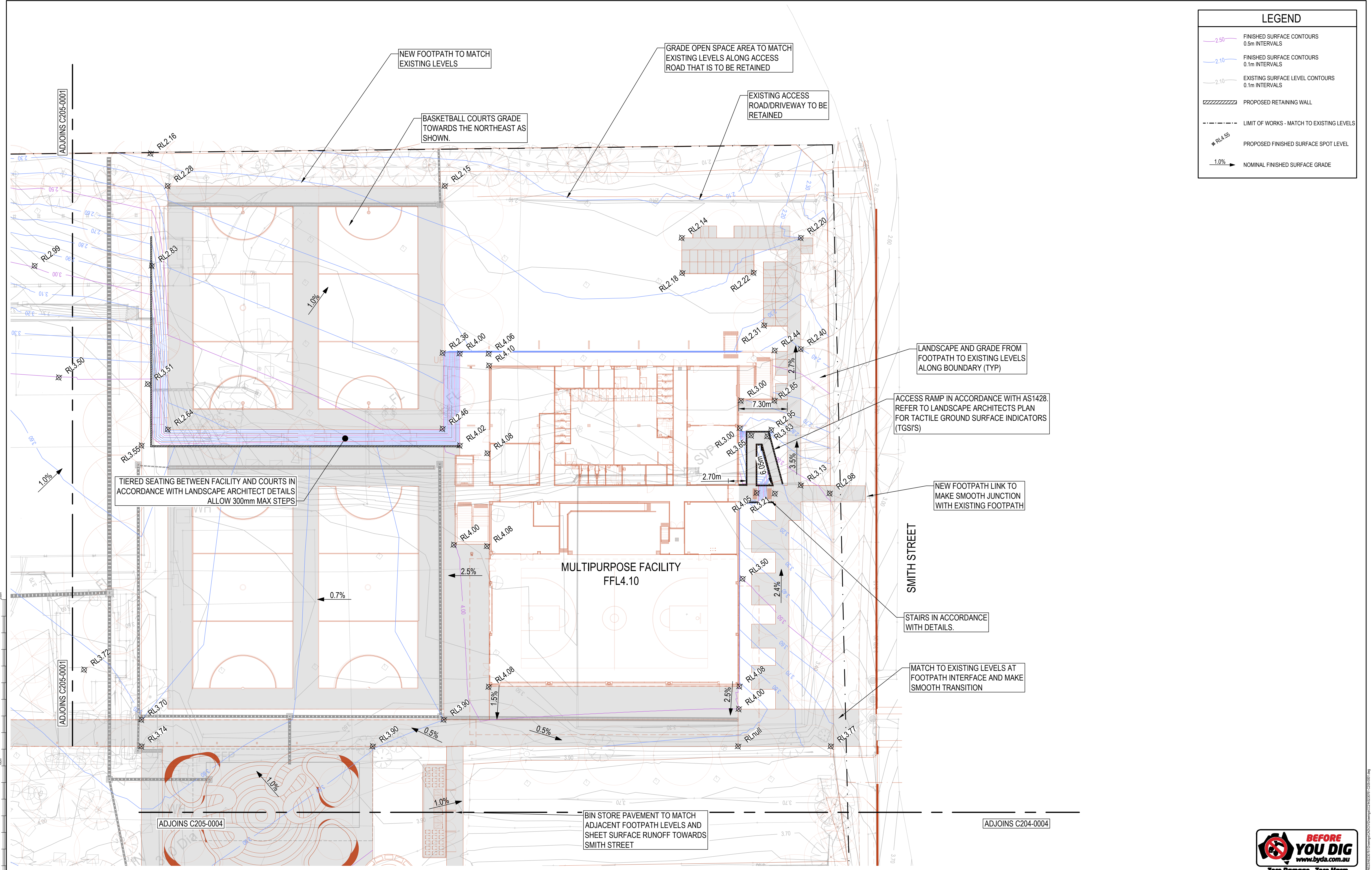
<div>ISSUED FOR PRELIMINARY REVIEW</div> <div>06.05.24</div> <div>MDM</div> <div>JPR</div>				<div>North</div> <div></div>		<div>Scale</div> <div>0 5 10 20 30m</div> <div>SCALE BAR 1:500 @A1 1:1000 @A3</div> <div>PRINT IN COLOUR</div>		<div>Client</div> <div>SCHOOL INFRASTRUCTURE NSW</div> <div>8/259 GEORGE STREET, SYDNEY NSW 2000</div> <div>T: 1300 482 651</div>		<div>Architect</div> <div>EJE ARCHITECTURE</div> <div>412 KING STREET, NEWCASTLE NSW 2300</div> <div>T: 02 4929 2353</div> <div>E: mail@eje.com.au</div>		<div>ACOR Consultants Pty Ltd</div> <div>The Forum, Level 1</div> <div>Suite 1 240-244 Pacific Highway</div> <div>Charlestown NSW 2290</div> <div>T +61 2 4926 4811</div>		<div>Project</div> <div>NEWCASTLE HIGH SCHOOL REDEVELOPMENT</div> <div>CONSTRUCTION CERTIFICATE 1 - EARLY WORKS</div> <div>25A NATIONAL PARK STREET</div> <div>NEWCASTLE WEST NSW 2302</div>		<div>Drawing Title</div> <div>CIVIL SERVICES</div> <div>KEY PLAN</div>		<div>Drawn</div> <div>MDM</div>		<div>Designed</div> <div>JK</div>		<div>O.A. Check</div> <div>JPR</div>		<div>Date</div> <div>06.05.24</div>		<div>Scale @ A1</div> <div>1:500</div>		<div>Project No.</div> <div>NS230761</div>		<div>Drawing No.</div> <div>C201-0201</div>		<div>Issue</div> <div>A</div>	
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LEGEND

2.50

FINISHED SURFACE CONTOURS  
0.5m INTERVALS

2.10

FINISHED SURFACE CONTOURS  
0.1m INTERVALS

2.10

EXISTING SURFACE LEVEL CONTOURS  
0.1m INTERVALS

PROPOSED RETAINING WALL

LIMIT OF WORKS - MATCH TO EXISTING LEVELS

RL4.55

PROPOSED FINISHED SURFACE SPOT LEVEL

1.0%

NOMINAL FINISHED SURFACE GRADE

ISSUED FOR PRELIMINARY REVIEW

06.05.24

MDM

JPR

0

2.5

5

10

15m

SCALE BAR 1:250 @A1 1:500 @A3

PRINT IN COLOUR

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES  
GENERAL ARRANGEMENT AND GRADING PLAN  
SHEET 2

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

C205-0002

Issue

A

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2.50

FINISHED SURFACE CONTOURS  
0.5m INTERVALS

2.10

FINISHED SURFACE CONTOURS  
0.1m INTERVALS

2.10

EXISTING SURFACE LEVEL CONTOURS  
0.1m INTERVALS

PROPOSED RETAINING WALL

LIMIT OF WORKS - MATCH TO EXISTING LEVELS

RL4.55

PROPOSED FINISHED SURFACE SPOT LEVEL

1.0%

NOMINAL FINISHED SURFACE GRADE

PROPOSED SUBSTATION LOCATION  
EASEMENT HATCHED

LANDSCAPE AND GRADE FROM  
FOOTPATH TO EXISTING LEVELS  
ALONG BOUNDARY

MAX 300mm STEPS FROM  
LANDING TO LOWER  
LANDSCAPE AREA

NATIONAL PARK STREET

3 STOREY NEW  
LEARNING HUB  
FFL 4.60

BLOCK K

BLOCK L

BLOCK A

PARKWAY AVENUE

LANDSCAPE LOWER TIER  
TO FALL TOWARDS  
EXISTING COURTYARD

LANDSCAPE LOWER TIER TO  
FALL TOWARDS NEW PIT

MAKE SMOOTH TRIP FREE  
JUNCTION BETWEEN NEW  
AND EXISTING COURTYARD  
PAVEMENTS

SANDSTONE LOG WALL TO  
RETAIN PATH LEVELS.  
REFER TO DETAILS

LANDSCAPE LOWER TIER  
TO FALL TOWARDS  
PARKWAY AVENUE

SANDSTONE LOG WALL TO  
RETAIN PATH LEVELS.  
REFER TO DETAILS

CONCRETE DOWNTURN TO  
RETAIN ADJACENT FOOTPATH  
LEVELS AND LANDSCAPING.  
REFER TO DETAILS

NEW TIMBER DECK TO  
ARCHITECTURAL AND  
STRUCTURAL DETAILS

MAKE SMOOTH JUNCTION  
WITH EXISTING FOOTPATH

SANDSTONE LOG WALL TO  
RETAIN PATH LEVELS.  
REFER TO DETAILS

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North

Scale

0 2.5 5 10 15m

SCALE BAR 1:250 @A1 1:500 @A3

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES  
GENERAL ARRANGEMENT AND GRADING PLAN  
SHEET 3

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

C205-0003

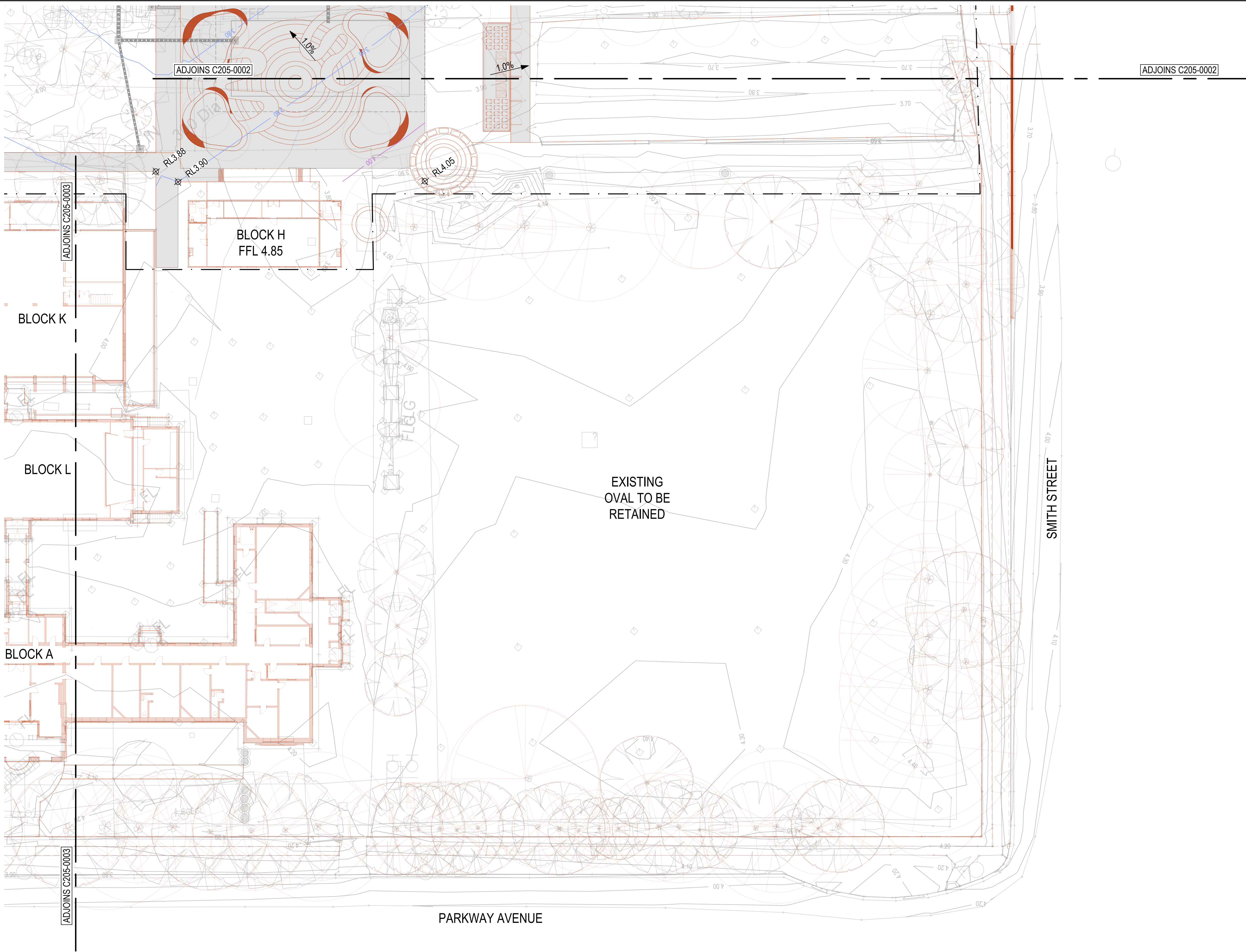
Issue

A

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LEGEND

2.50

FINISHED SURFACE CONTOURS  
0.5m INTERVALS

2.10

FINISHED SURFACE CONTOURS  
0.1m INTERVALS

2.10

EXISTING SURFACE LEVEL CONTOURS  
0.1m INTERVALS

PROPOSED RETAINING WALL

LIMIT OF WORKS - MATCH TO EXISTING LEVELS

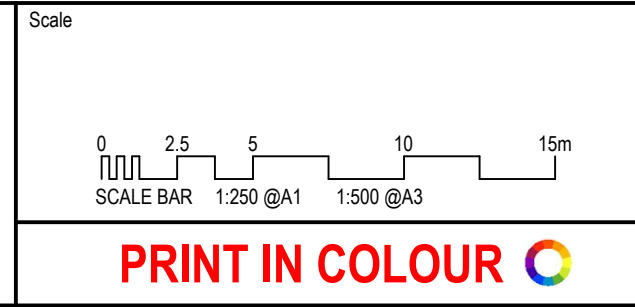
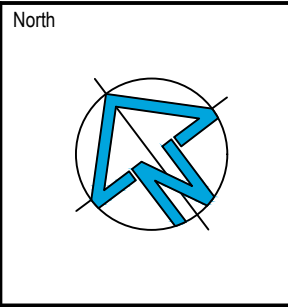
RL4.55

PROPOSED FINISHED SURFACE SPOT LEVEL

1.0%

NOMINAL FINISHED SURFACE GRADE

A		ISSUED FOR PRELIMINARY REVIEW	06.05.24	MDM	JPR
Issue		Description	Date	Drawn	Approved



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Project  
**NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS**

25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title CIVIL SERVICES GENERAL ARRANGEMENT AND GRADING PLAN SHEET 4				
Drawn MDM	Designed JK	O.A. Check JPR	Date 06.05.24	Scale @ A1 1:250
Project No. NS230761	Drawing No. C205-0004	Issue A		





LEGEND

2.50

DESIGN BOXOUT CONTOURS  
0.5m INTERVALS

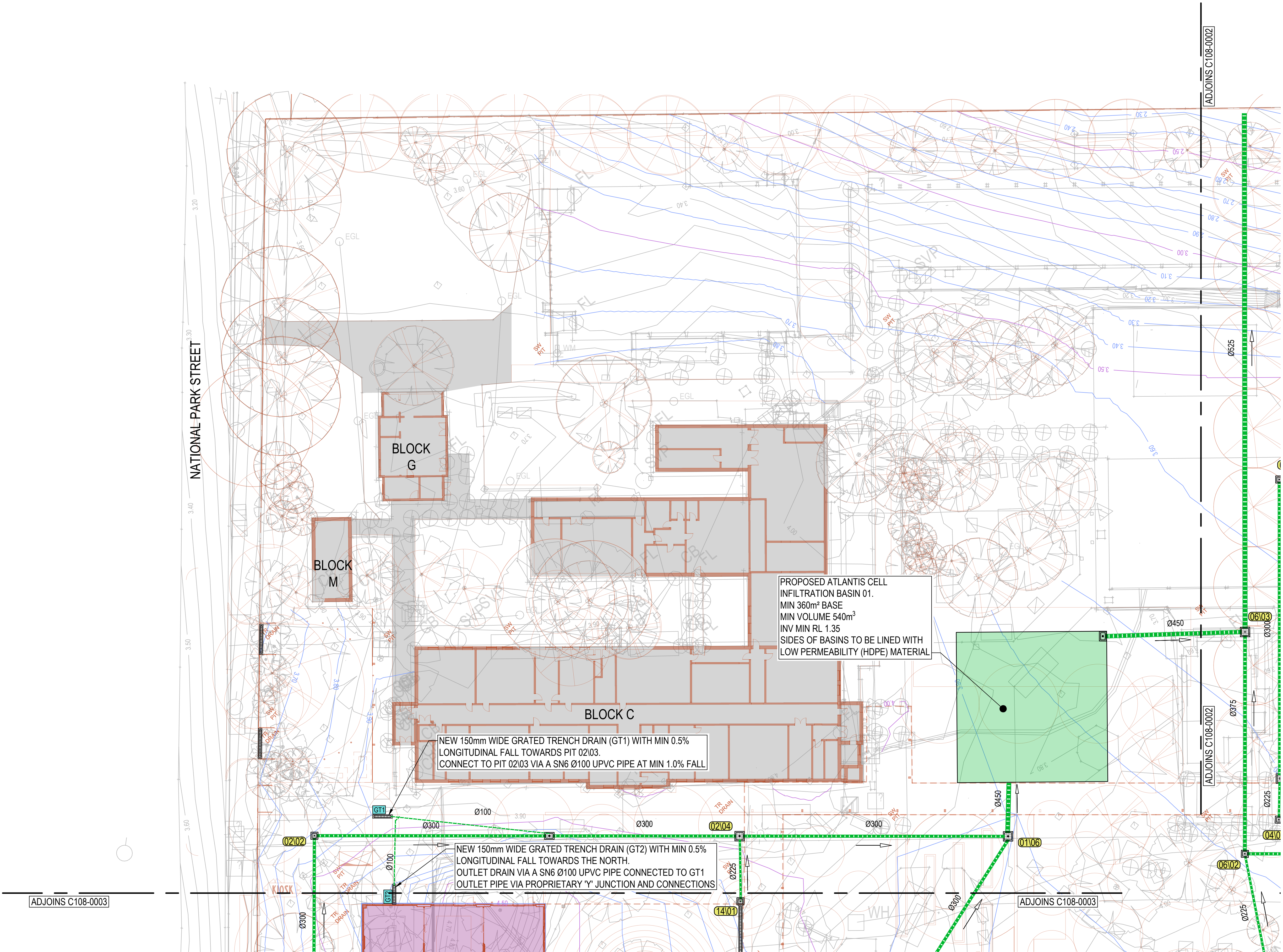
2.10

DESIGN BOXOUT CONTOURS  
0.1m INTERVALS

PROPOSED STORMWATER PIPE

PROPOSED STORMWATER PIT

PROPOSED GRATED TRENCH DRAIN  
MIN 200mm WIDE



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North

Scale

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2.5

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15m

SCALE BAR 1:250 @A1 1:500 @A3

PRINT IN COLOUR

Client

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES  
STORMWATER MANAGEMENT PLAN  
SHEET 1

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

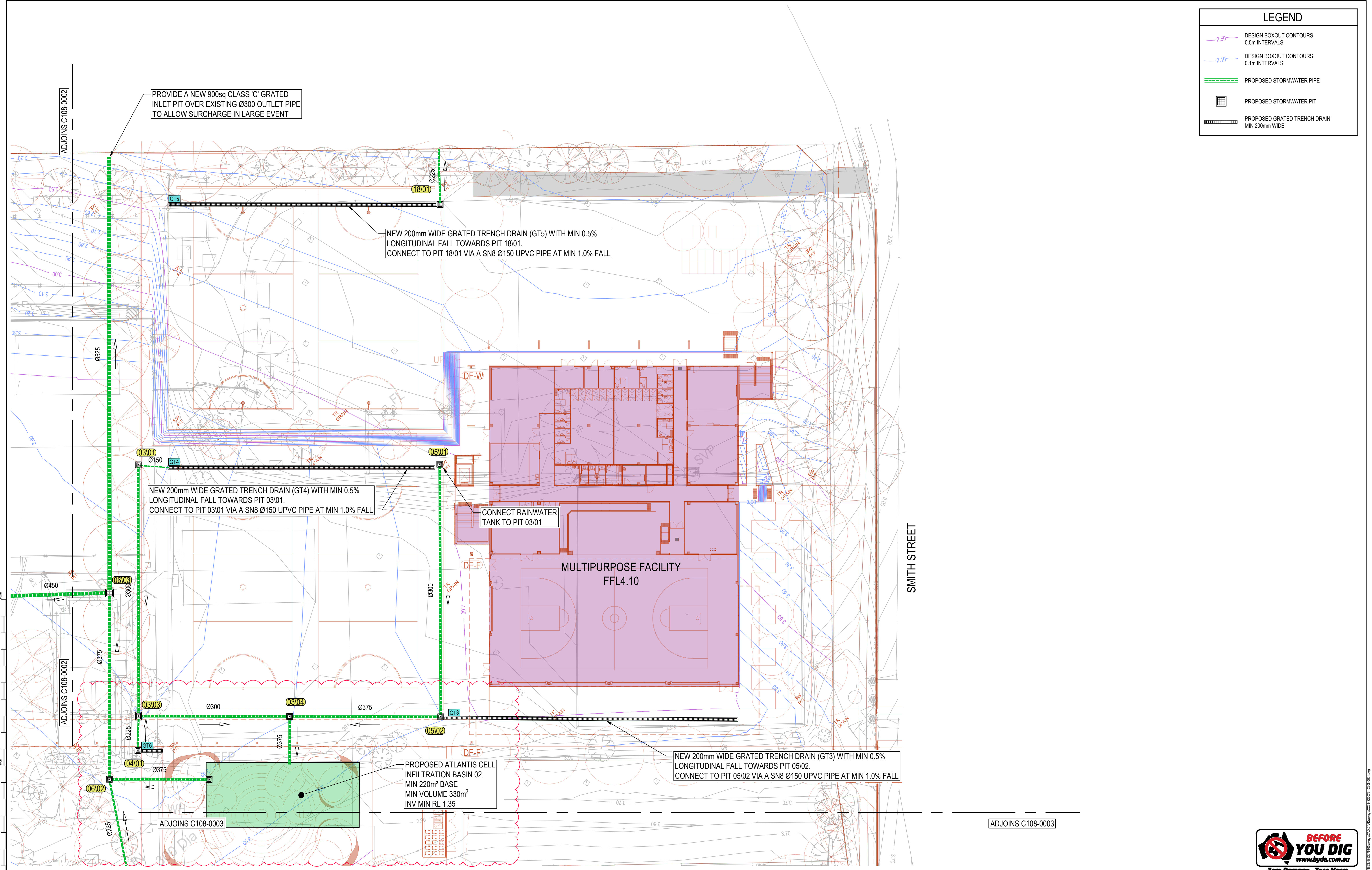
C208-0001

Issue

A

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LEGEND

DESIGN BOXOUT CONTOURS  
0.5m INTERVALS

DESIGN BOXOUT CONTOURS  
0.1m INTERVALS

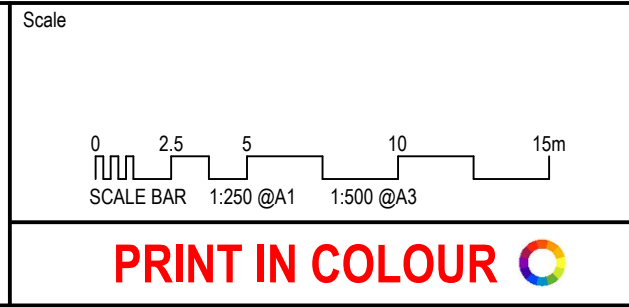
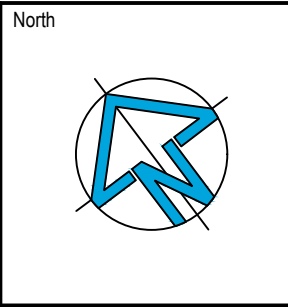
PROPOSED STORMWATER PIPE

PROPOSED STORMWATER PIT

PROPOSED GRATED TRENCH DRAIN  
MIN 200mm WIDE



Issue		Description		Date	Drawn	Approved
A		ISSUED FOR PRELIMINARY REVIEW		06.05.24	MDM	JPR



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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

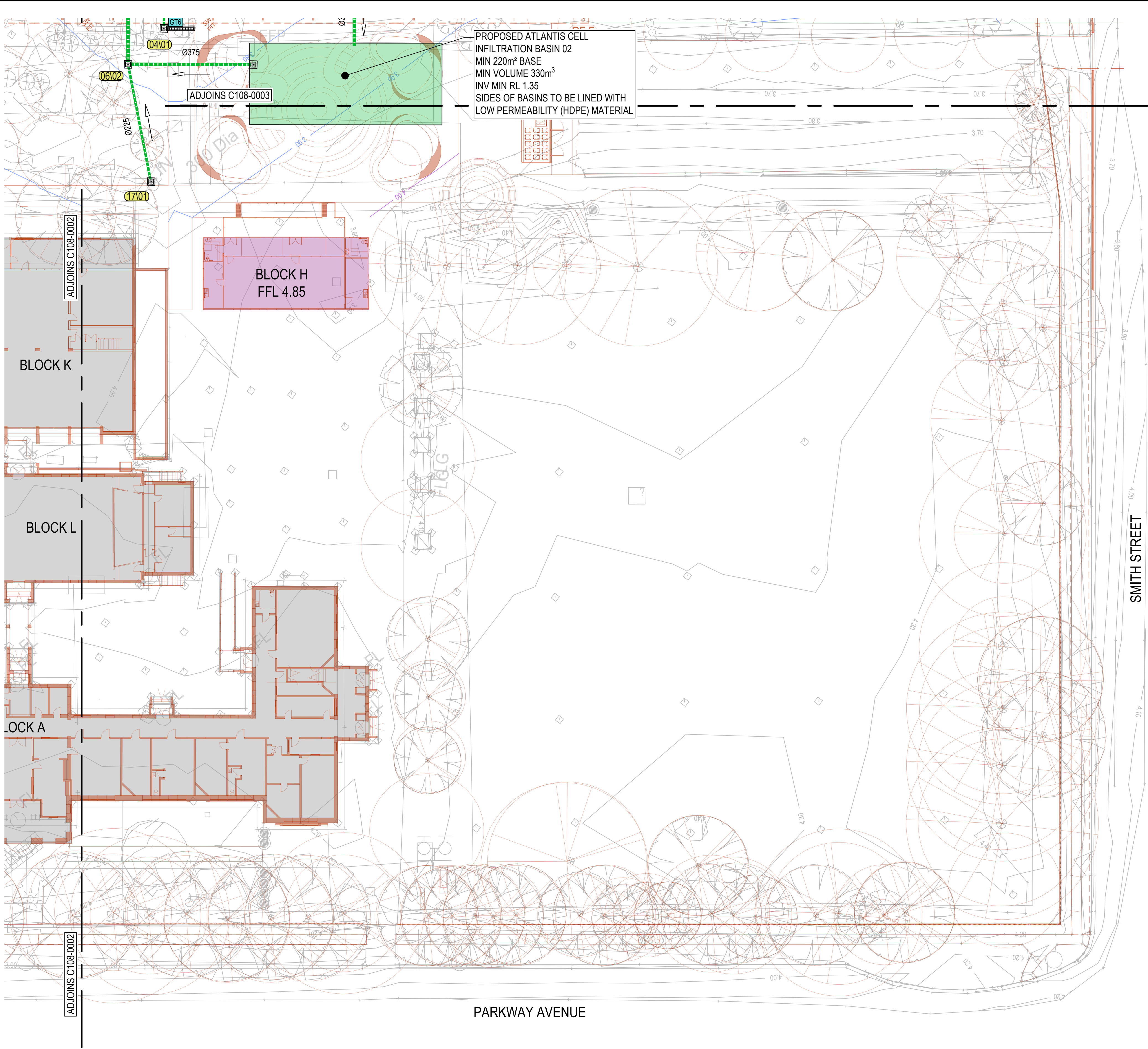
25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title		CIVIL SERVICES STORMWATER MANAGEMENT PLAN SHEET 2	
Drawn	Designed	O.A. Check	Date
MDM	JK	JPR	06.05.24
Project No.	Drawing No.	Issue	
NS230761	C208-0002	A	









PROPOSED ATLANTIS CELL  
INFILTRATION BASIN 02  
MIN 220m² BASE  
MIN VOLUME 330m³  
INV MIN RL 1.35  
SIDES OF BASINS TO BE LINED WITH  
LOW PERMEABILITY (HDPE) MATERIAL

ADJOINS C108-0003

ADJOINS C108-0003

BLOCK H  
FFL 4.85

BLOCK K

BLOCK L

LOCK A

SMITH STREET

PARKWAY AVENUE

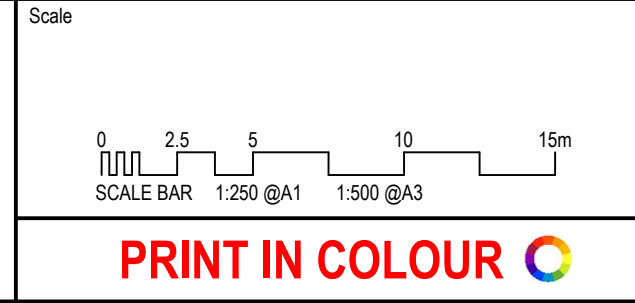
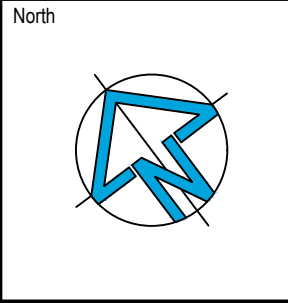
LEGEND

2.50DESIGN BOXOUT CONTOURS  
0.5m INTERVALS

2.10DESIGN BOXOUT CONTOURS  
0.1m INTERVALS

PIT ID	TYPE	LID TYPE & CLASS	INV.RL	COVER.RL	DEPTH
01\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.75	4.316	0.566
01\02	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.46	4.439	0.979
01\03	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.35	4.336	0.986
01\04	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.27	4.274	1.004
01\05	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.95	3.843	0.893
01\06	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.58	3.898	1.318
02\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.24	3.919	0.679
02\02	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.07	3.778	0.708
02\03	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.89	4.013	1.123
02\04	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.73	3.98	1.25
03\01	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.86	3.987	1.127
03\02	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.75	3.561	0.811
03\03	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.67	3.702	1.032
03\04	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.55	3.797	1.247
04\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.1	3.746	0.646
05\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.18	3.987	0.807
05\02	600X900 SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.98	3.899	0.919
06\02	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2.22	3.79	1.57
06\02	900SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	2	3.585	1.585
10\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.75	4.477	0.727
11\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.7	4.389	0.689
12\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.6	4.046	0.446
13\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.15	3.927	0.777
14\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.3	4.04	0.74
17\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'	3.15	3.868	0.718
18\01	600SQ SURFACE INLET PIT	HEEL SAFE GRATE - CLASS 'C'			

Issue	Description	Date	Drawn	Approved
A	ISSUED FOR PRELIMINARY REVIEW	06.05.24	MDM	JPR



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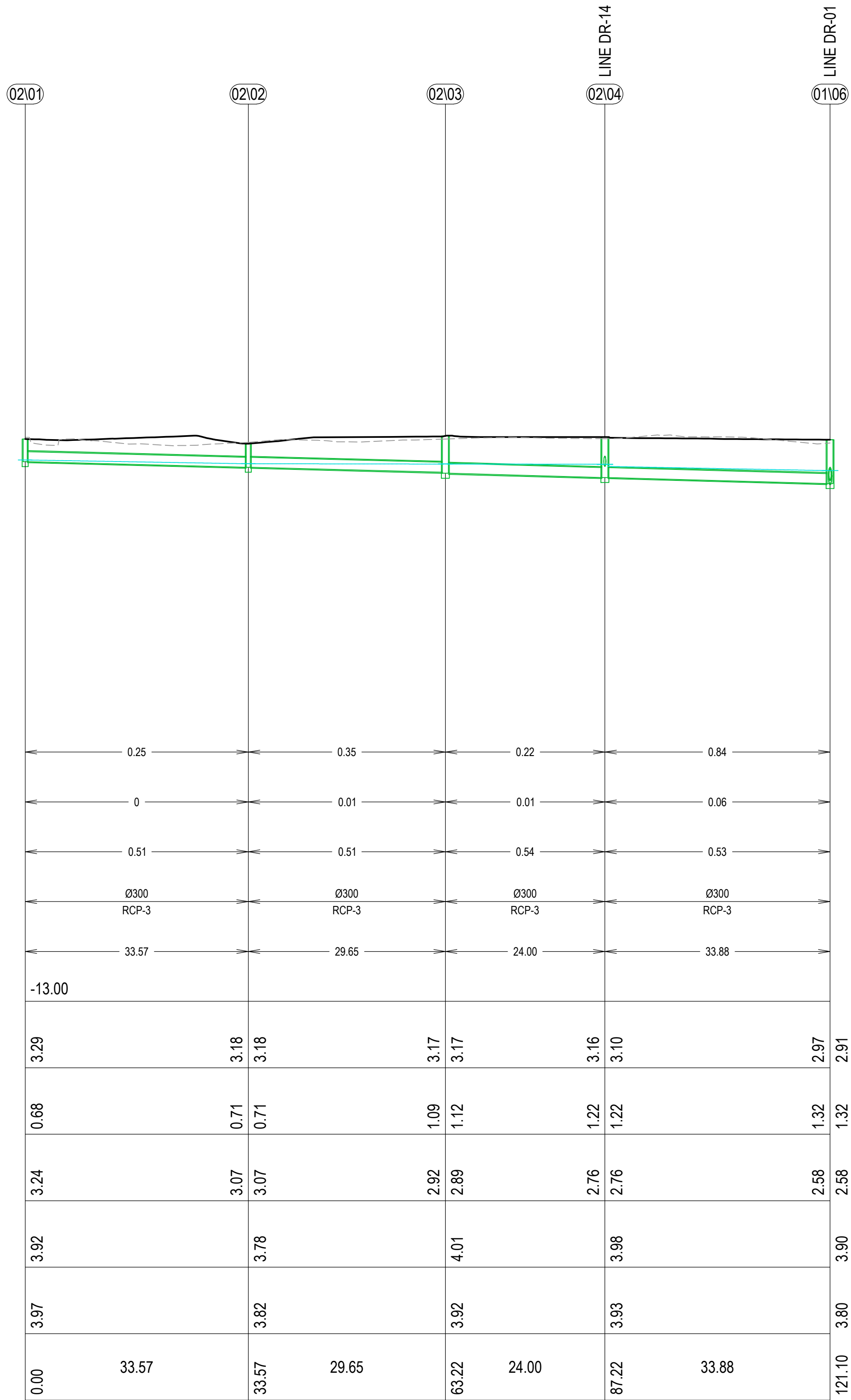
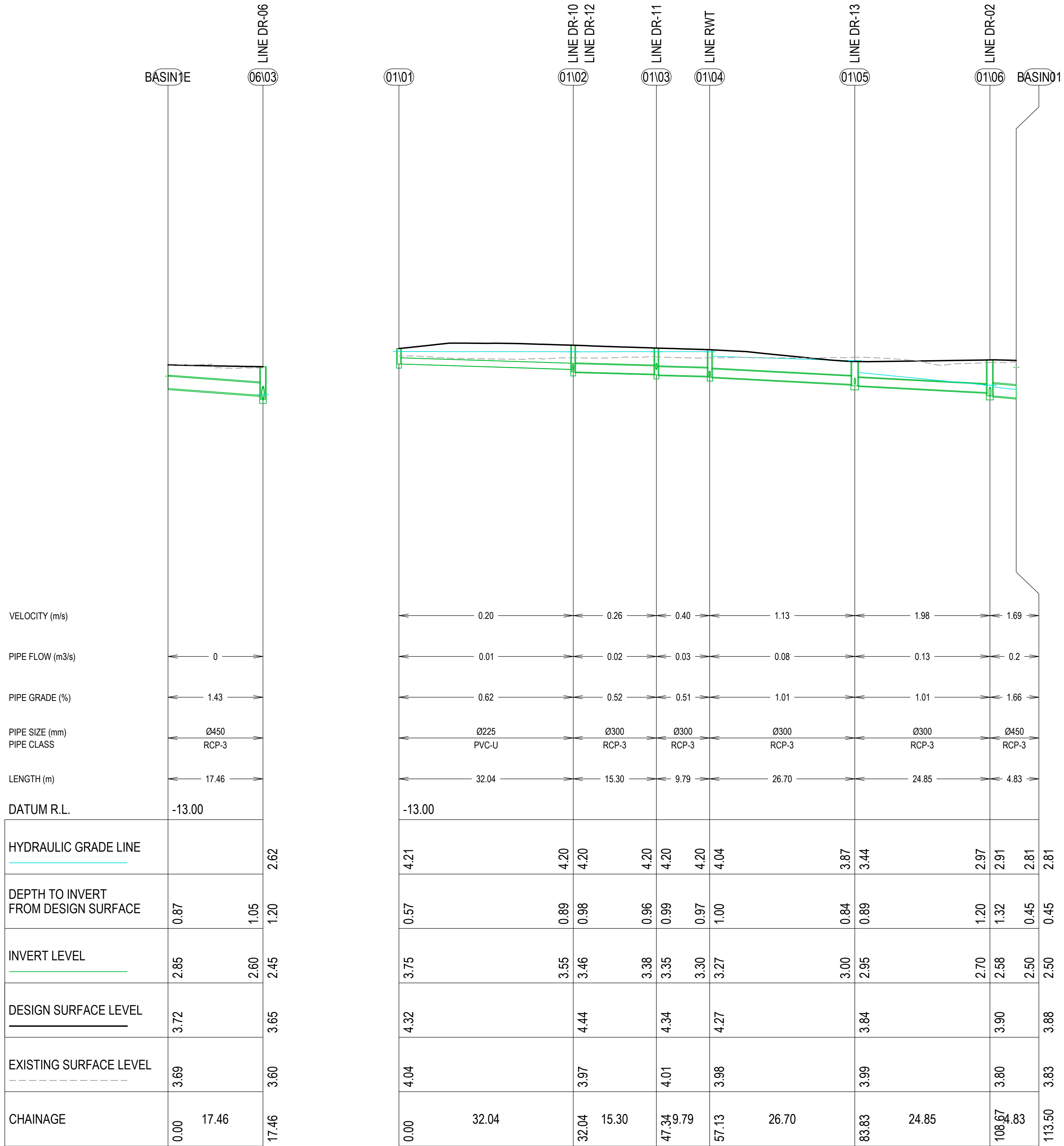


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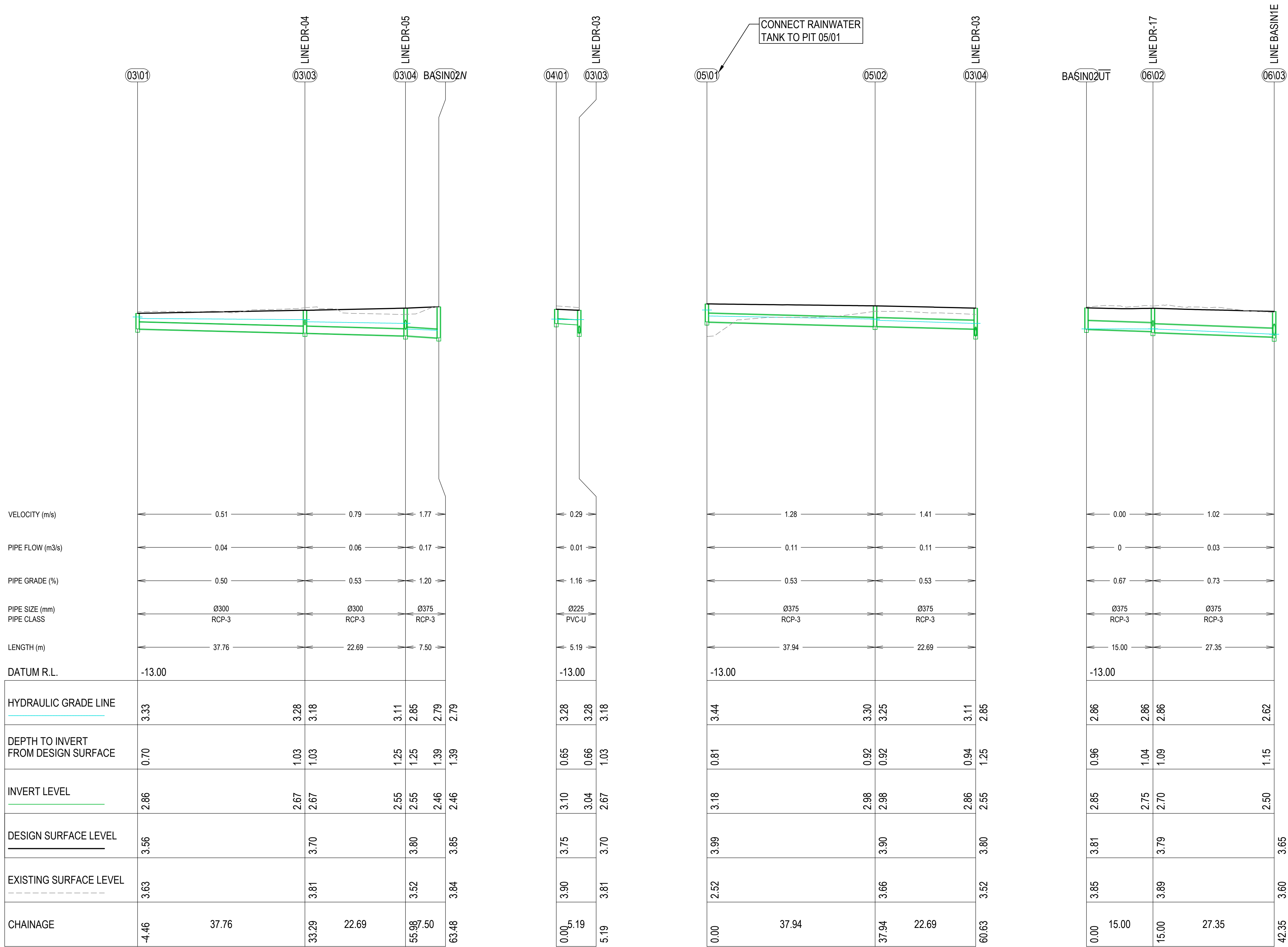
Project  
NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS  
  
25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title CIVIL SERVICES STORMWATER MANAGEMENT PLAN SHEET 4				
Drawn MDM	Designed JK	O.A. Check JPR	Date 06.05.24	Scale @ A1 1:250
Project No. NS230761	Drawing No. C208-0004	Issue A		









LINE DR-03

VERTICAL SCALE 1:500

HORIZONTAL SCALE 1:100

LINE DR-04

LINE DR-05

LINE DR-06









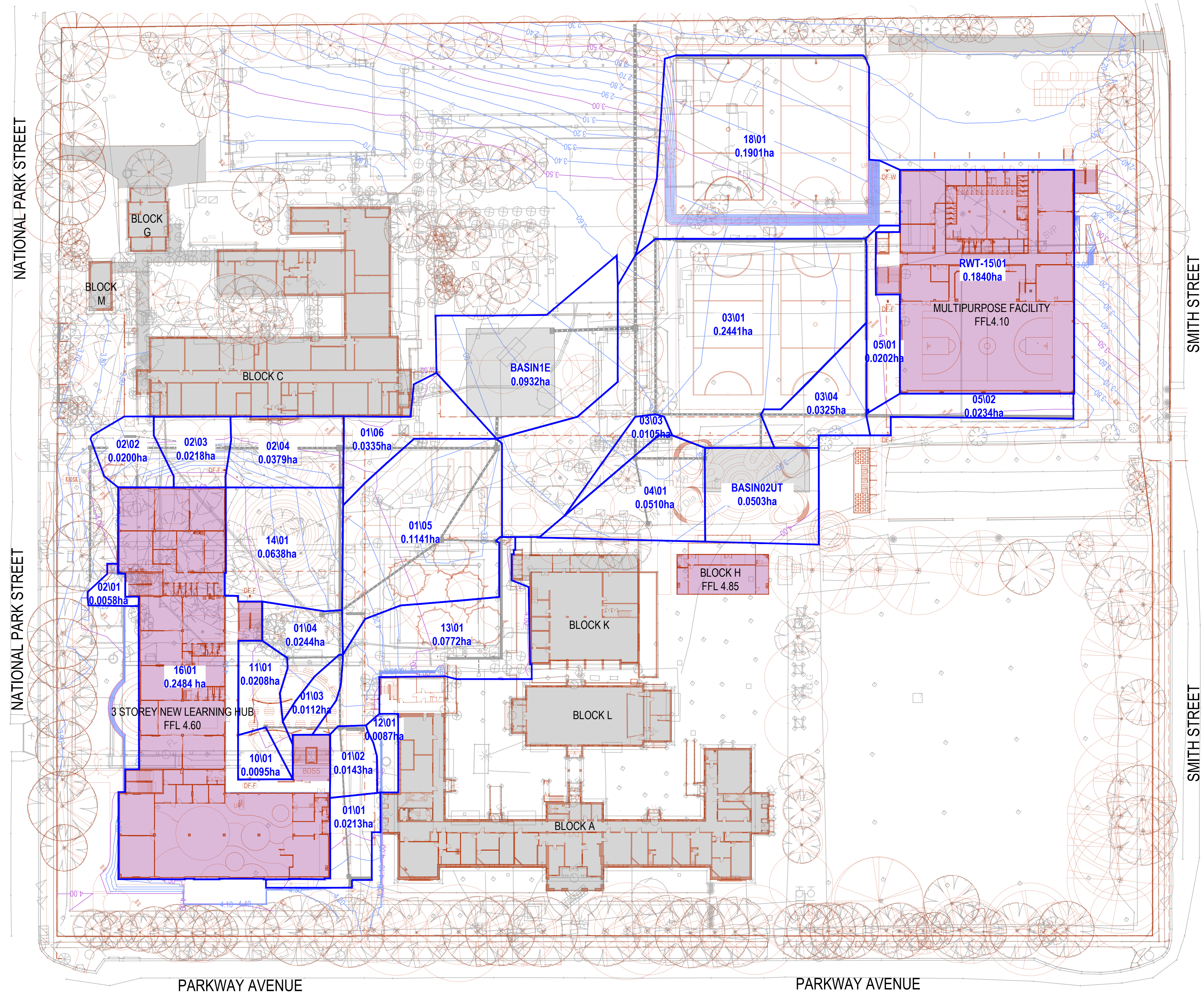


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LEGEND

POST DEVELOPMENT CATCHMENT AREA



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95

96

97

98

99

100

North

Scale

0

5

10

20

30m

SCALE BAR 1:500 @A1 1:1000 @A3

PRINT IN COLOUR

Client

SCHOOL  
INFRASTRUCTURE NSW

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES  
STORMWATER CATCHMENT PLAN

Drawn  
MDM

Designed  
JK

O.A. Check  
JPR

Date  
06.05.24

Scale @ A1  
1:500

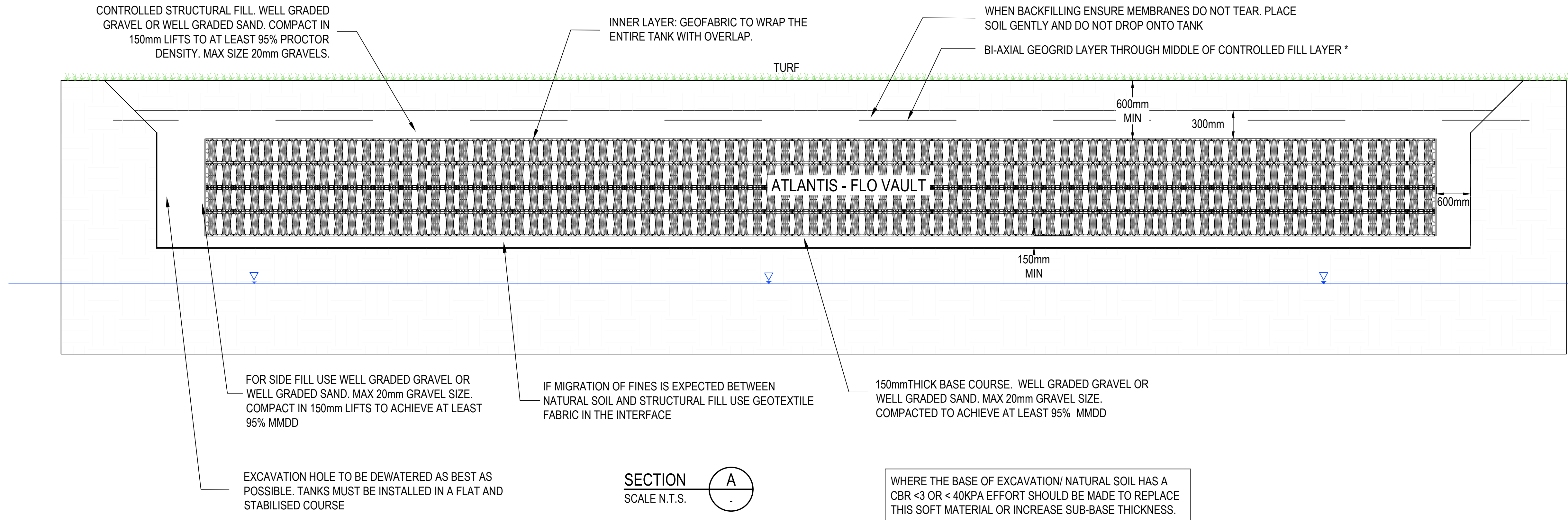
Project No.  
NS230761

Drawing No.  
C208-0301

Issue  
A

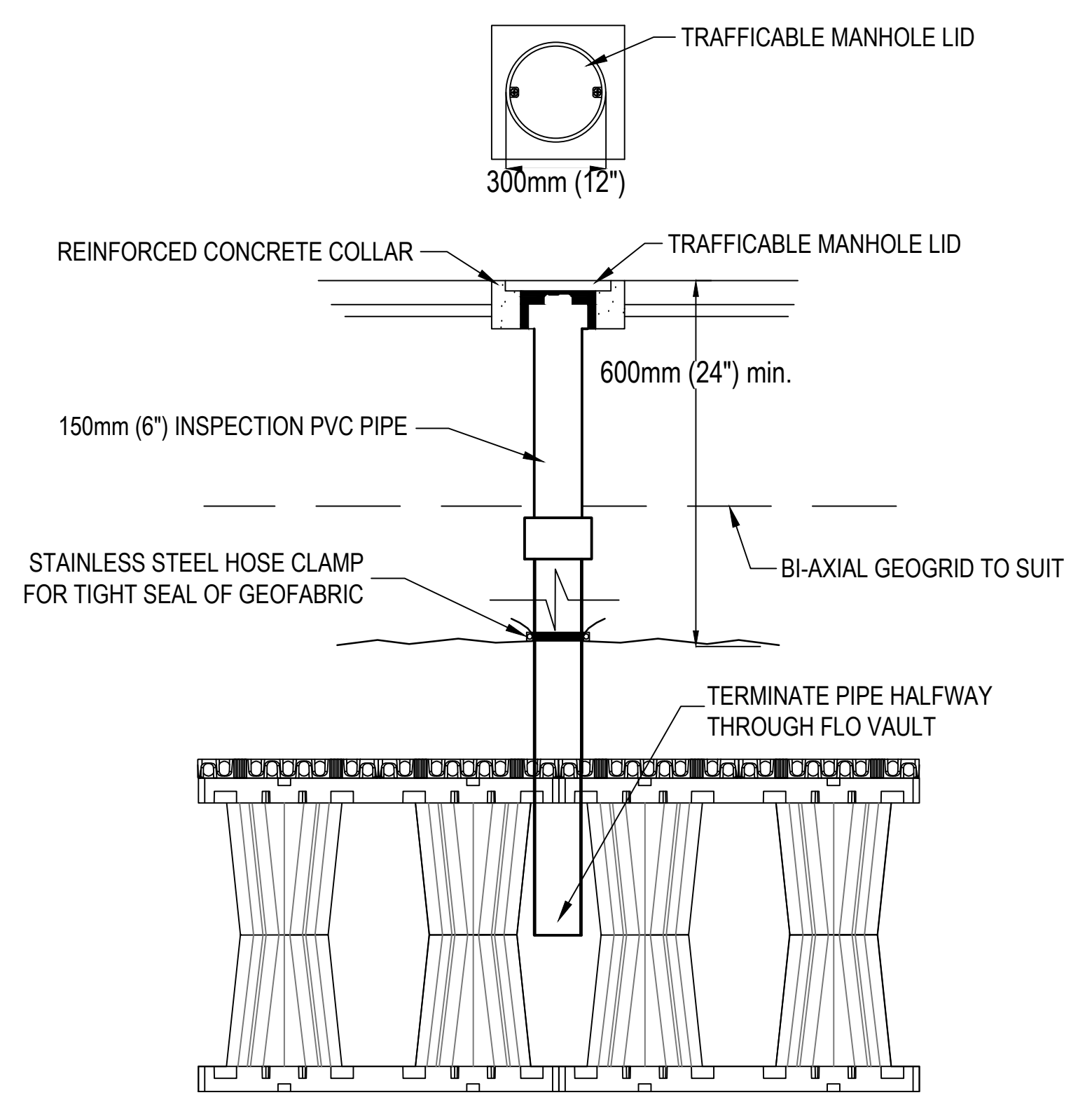
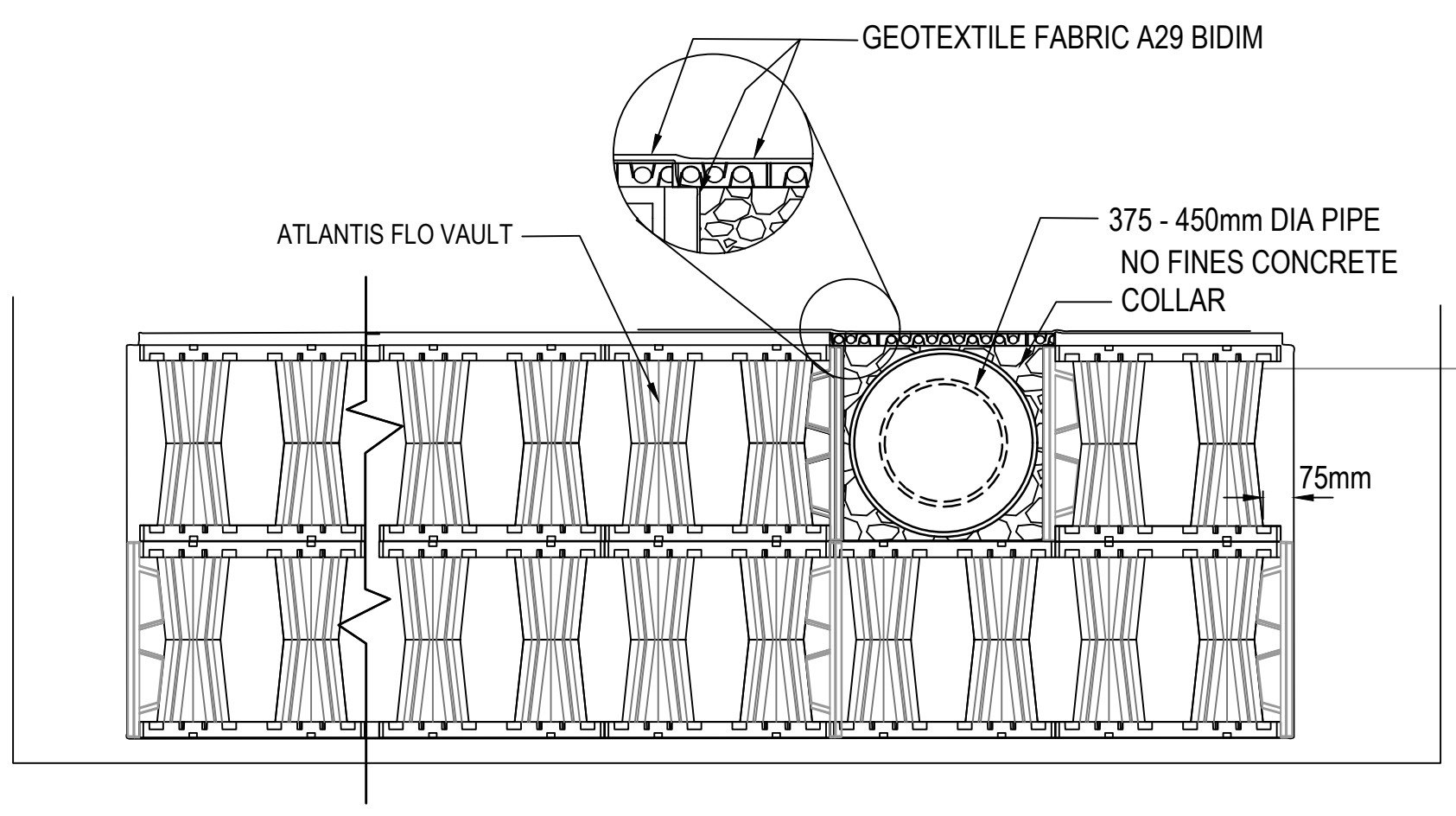
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- ENSURE THE EXCAVATION DOES NOT COMPROMISE OR CONFLICT EXISTING STRUCTURES, FOOTINGS, WALLS, ALL SERVICES AND DOES NOT UNDERMINE SLOPE STABILITY.
  - CONTRACTOR TO ENSURE THERE IS ADEQUATE EXCAVATION SUPPORT. TO CONTACT GEOTECHNICAL ENGINEER IF DEEMED NECESSARY.
  - ALL FUTURE WORKS TO CONSIDER THE EXISTENCE OF THESE WORKS. TO BE STATED BY A CLEAR PLACARD OR SIGNAGE IN CLOSE PROXIMITY TO TANKS.
- \*GEOGRID IS STRONGLY RECOMMENDED, ESPECIALLY FOR THE FOLLOWING REASONS:
- I) FINAL TRAFFICABLE APPLICATION FOR HEAVY VEHICLES
  - II) WHERE BACKFILL DIFFERENTIAL EXCEEDS 300mm FROM ONE POINT ABOVE TANK TO ANOTHER
  - III) WHERE A ROLLER COMPACTOR OVER 6 TONNES IS USED

ENSURE TANK BASE IS ABOVE MAX WATER TABLE LEVEL BY AT LEAST 1M







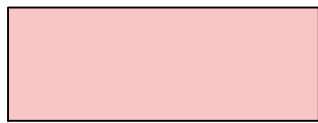




PROPOSED CONCRETE  
PAVEMENT NON TRAFFICABLE  
REFER C209-0201 FOR DETAIL



## PROPOSED BUILDING



PROPOSED SPORTS COURT  
PAVEMENT, REFER  
C209-0201 FOR DETAIL



PROPOSED CONCRETE  
PAVEMENT TRAFFICABLE  
REFER C209-0201 FOR DETAIL



PROPOSED VEHICLE  
CROSSING AS PER COUNCIL  
REQUIREMENT



## EXISTING BUILDING

-----

SAWCUT JOINT  
REFER TO C209-0204 FOR DETAIL

EXPANSION JOINT  
REFER TO C209-0204 FOR DETAIL

ISOLATION JOINT  
REFER TO C209-0204 FOR DETAIL

TRIMMER BARS  
REFER TO C209-0204 FOR DETAIL




North

Scale

0 2.5 5 10 15m

SCALE BAR 1:250 @A1 1:500 @A3

**PRINT IN COLOUR**

Client	SCHOOL INFRASTRUCTURE NSW	
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Architect  
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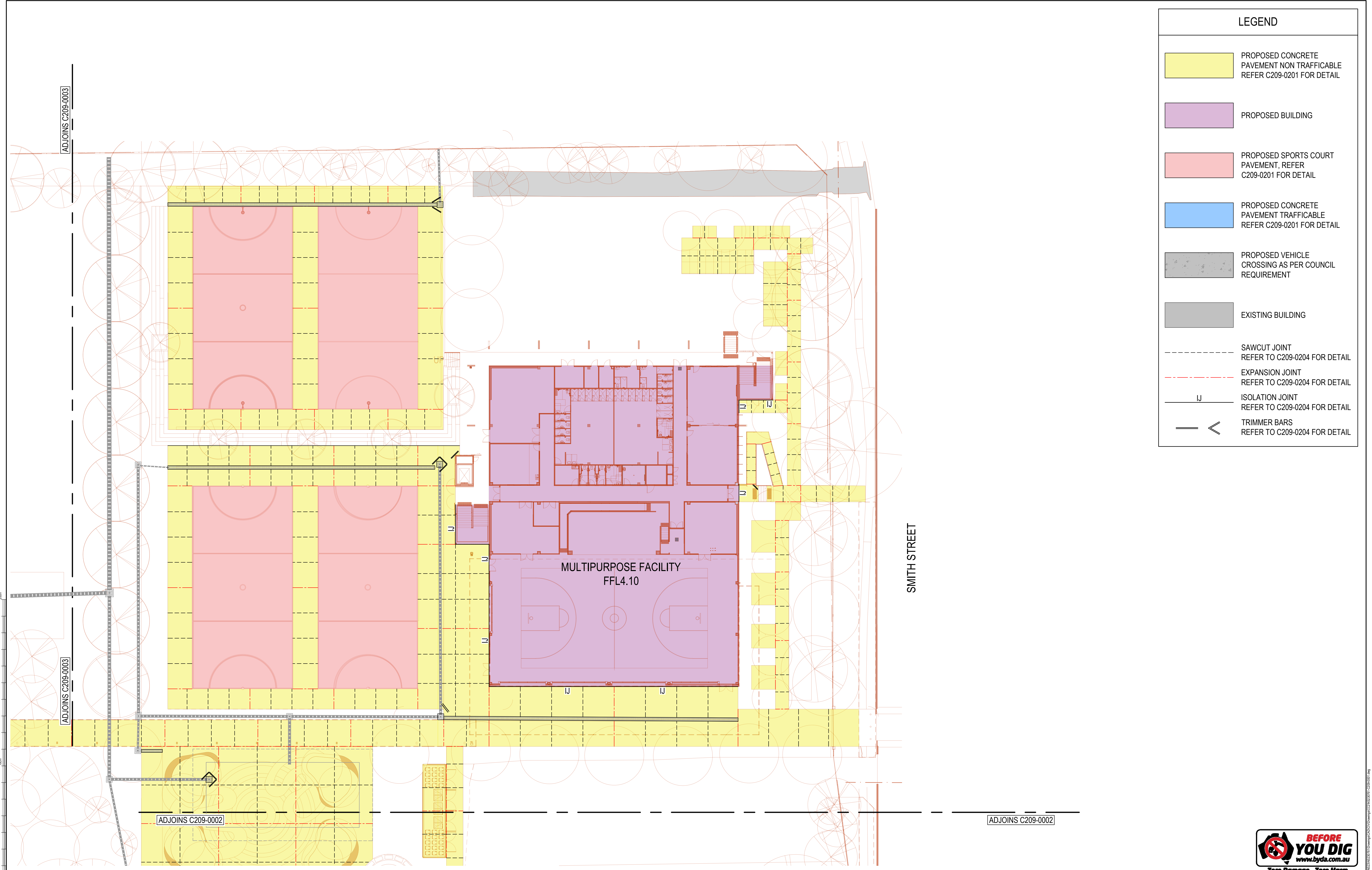
Project  
NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS  
25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

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**NOT FOR CONSTRUCTION**

Drawing Title <b>CIVIL SERVICES          PAVEMENT PLAN          SHEET 1</b>				
Drawn <b>MDM</b>	Designed <b>JK</b>	Q.A. Check <b>JPR</b>	Date <b>06.05.24</b>	Scale @ A1 <b>1:250</b>
Project No. <b>NS230761</b>		Drawing No. <b>C209-0001</b>		Issue <b>A</b>





LEGEND	
	PROPOSED CONCRETE PAVEMENT NON TRAFFICABLE REFER C209-0201 FOR DETAIL
	PROPOSED BUILDING
	PROPOSED SPORTS COURT PAVEMENT, REFER C209-0201 FOR DETAIL
	PROPOSED CONCRETE PAVEMENT TRAFFICABLE REFER C209-0201 FOR DETAIL
	PROPOSED VEHICLE CROSSING AS PER COUNCIL REQUIREMENT
	EXISTING BUILDING
	SAWCUT JOINT REFER TO C209-0204 FOR DETAIL
	EXPANSION JOINT REFER TO C209-0204 FOR DETAIL
	ISOLATION JOINT REFER TO C209-0204 FOR DETAIL
	TRIMMER BARS REFER TO C209-0204 FOR DETAIL

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A										ISSUED FOR PRELIMINARY REVIEW										06.05.24										MDM										JPR																																																											
Issue										Description										Date										Drawn										Approved																																																											

North

Scale

0 2.5 5 10 15m

SCALE BAR 1:250 @A1 1:500 @A3

**PRINT IN COLOUR**

Client

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**NSW GOVERNMENT**

**EJE**

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT

CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET

NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES

PAVEMENT PLAN

SHEET 2

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

C209-0002

Issue

A

**BEFORE YOU DIG**

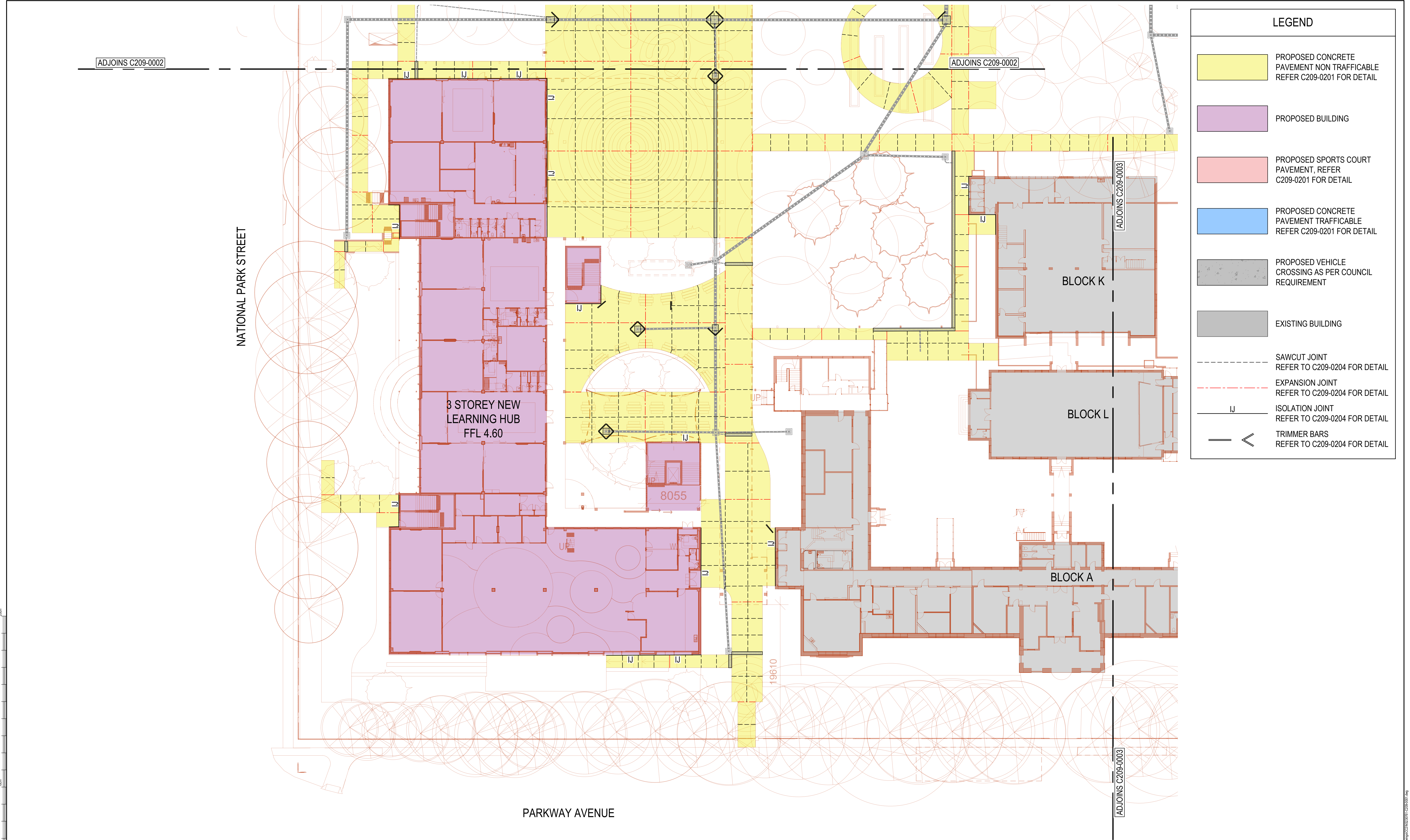
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Zero Damage - Zero Harm

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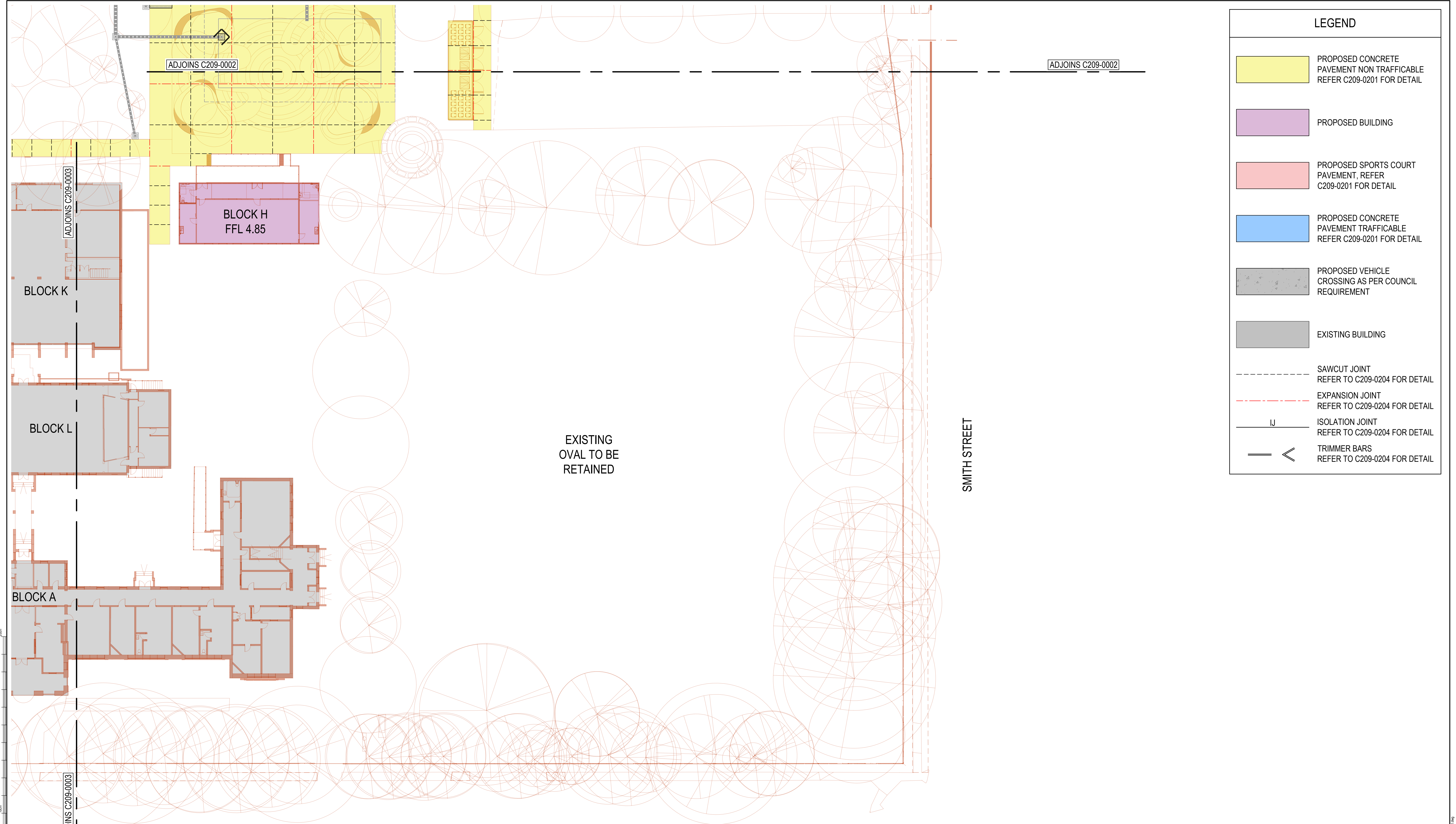


<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>				<div>North</div>				<div>Scale</div> <div>0 2.5 5 10 15m</div> <div>SCALE BAR 1:250 @A1 1:500 @A3</div>				<div>Client</div> <div>SCHOOL INFRASTRUCTURE NSW</div> <div>8/259 GEORGE STREET, SYDNEY NSW 2000</div> <div>T: 1300 482 651</div>				<div>Architect</div> <div>EJE ARCHITECTURE</div> <div>412 KING STREET, NEWCASTLE NSW 2300</div> <div>T: 02 4929 2353</div> <div>E: mail@eje.com.au</div>				<div>ACOR Consultants Pty Ltd</div> <div>The Forum, Level 1</div> <div>Suite 1 240-244 Pacific Highway</div> <div>Charlestown NSW 2290</div> <div>T +61 2 4926 4811</div>				<div>Project</div> <div>NEWCASTLE HIGH SCHOOL REDEVELOPMENT</div> <div>CONSTRUCTION CERTIFICATE 1 - EARLY WORKS</div> <div>25A NATIONAL PARK STREET</div> <div>NEWCASTLE WEST NSW 2302</div>				<div>Drawing Title</div> <div>CIVIL SERVICES</div> <div>PAVEMENT PLAN</div> <div>SHEET 3</div>				<div>Drawn</div> <div>MDM</div>				<div>Designed</div> <div>JK</div>				<div>O.A. Check</div> <div>JPR</div>				<div>Date</div> <div>06.05.24</div>				<div>Scale @ A1</div> <div>1:250</div>				<div>Project No.</div> <div>NS230761</div>				<div>Drawing No.</div> <div>C209-0003</div>				<div>Issue</div> <div>A</div>			
<div>ISSUED FOR PRELIMINARY REVIEW</div>				<div>06.05.24</div>				<div>MDM</div>				<div>JPR</div>				<div>NOT FOR CONSTRUCTION</div>																																															

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LEGEND	
	PROPOSED CONCRETE PAVEMENT NON TRAFFICABLE REFER C209-0201 FOR DETAIL
	PROPOSED BUILDING
	PROPOSED SPORTS COURT PAVEMENT, REFER C209-0201 FOR DETAIL
	PROPOSED CONCRETE PAVEMENT TRAFFICABLE REFER C209-0201 FOR DETAIL
	PROPOSED VEHICLE CROSSING AS PER COUNCIL REQUIREMENT
	EXISTING BUILDING
	SAWCUT JOINT REFER TO C209-0204 FOR DETAIL
	EXPANSION JOINT REFER TO C209-0204 FOR DETAIL
	ISOLATION JOINT REFER TO C209-0204 FOR DETAIL
	TRIMMER BARS REFER TO C209-0204 FOR DETAIL

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A										ISSUED FOR PRELIMINARY REVIEW										06.05.24										MDM										JPR																																																											
Issue										Description										Date										Drawn										Approved																																																											

North

Scale

0 2.5 5 10 15m

SCALE BAR 1:250 @A1 1:500 @A3

**PRINT IN COLOUR**

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT

CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET

NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES

PAVEMENT PLAN

SHEET 4

Drawn	Designed	O.A. Check	Date	Scale @ A1
MDM	JK	JPR	06.05.24	1:250
Project No.	Drawing No.	Issue		
NS230761	C209-0004	A		

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CONCRETE NOTES

1.

ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3600, CURRENT EDITIONS WITH AMENDMENTS EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2.

CONCRETE TO COMPLY WITH THE FOLLOWING:  
28 DAY COMPRESSIVE STRENGTH - F<sub>c</sub> = 32MPa  
28 DAY FLEXURAL STRENGTH F<sub>ef</sub> = 4.5MPa  
MAX 28 DAY SHRINKAGE - 600 MICROSTRAIN
3.

READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379.
4.

PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS10120.
5.

NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
6.

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.
7.

CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
8.

THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENOUS 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.
9.

CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SERVICES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAY BE USED WHERE FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURER'S SPECIFICATION), POLYHTENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE NOT PROTECTED FROM WIND AND TRAFFIC.
10.

THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL OBTAINED.
11.

REINFORCEMENT SYMBOLS:  
  
'R' DENOTES ROUND BAR, 250MPa GRADE, NORMAL DUCTILITY  
'SL' DENOTES SQUARE MESH, DEFORMED BAR, 500MPa GRADE, LOW DUCTILITY  
'RL' DENOTES RECTANGULAR MESH, DEFORMED BAR, 500MPa GRADE, LOW DUCTILITY  
  
NUMBER OF BARS IN GROUP      BAR GRADE AND TYPE  
NOMINAL BAR SIZE IN mm      SPACING IN mm

JOINTING NOTES

1.

ALL WORK IN ACCORDANCE WITH "GUIDE TO RESIDENTIAL STREETS AND PATHS" BY CEMENT & CONCRETE ASSOC. OF AUST.
2.

SURFACE FINISH SHALL BE LIGHT BROOM OR HESSIAN BAG U.N.O. ISOLATION JOINTS AROUND S.W. PITS.
3.

ISOLATION JOINTS AND N12 TRIMMER BARS AROUND S.W. PITS.
4.

KERB AND PAVEMENT JOINTING TO ALIGN.
5.

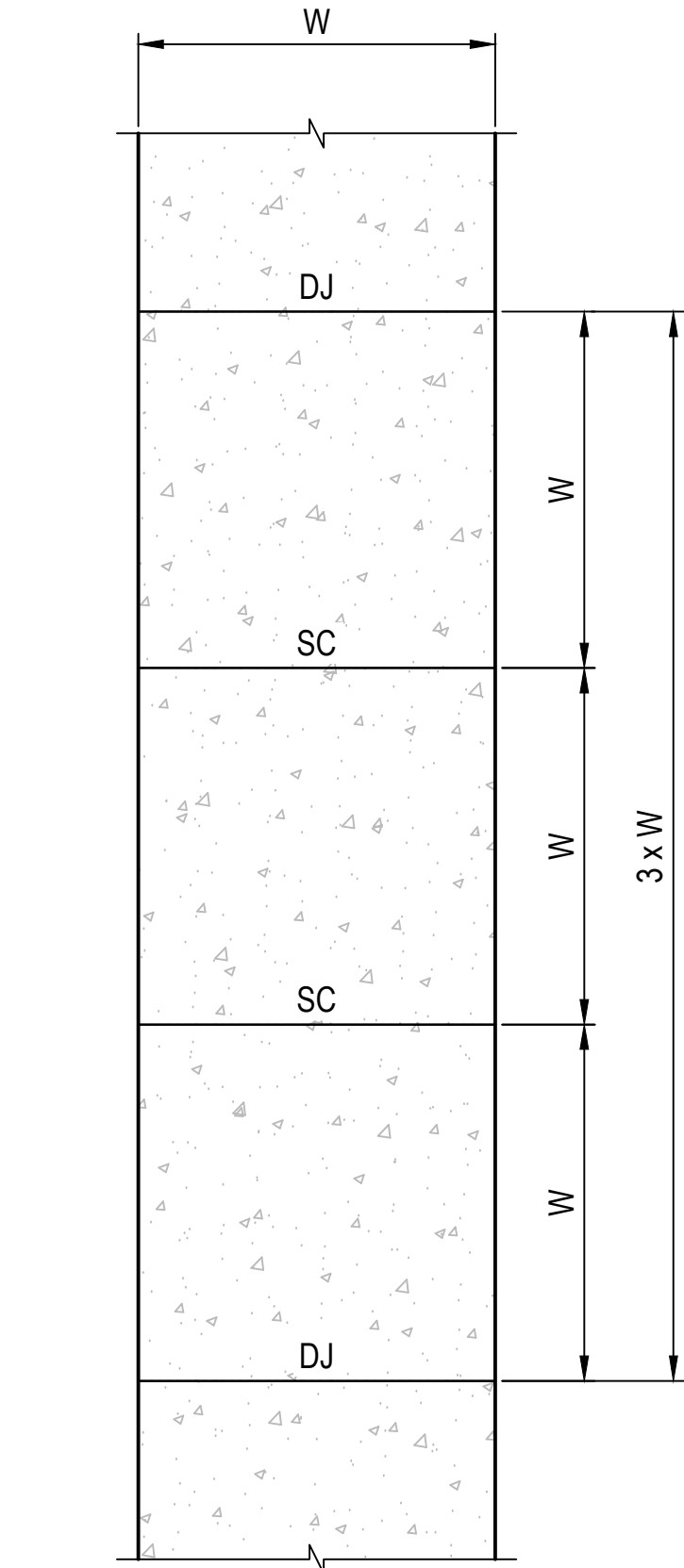
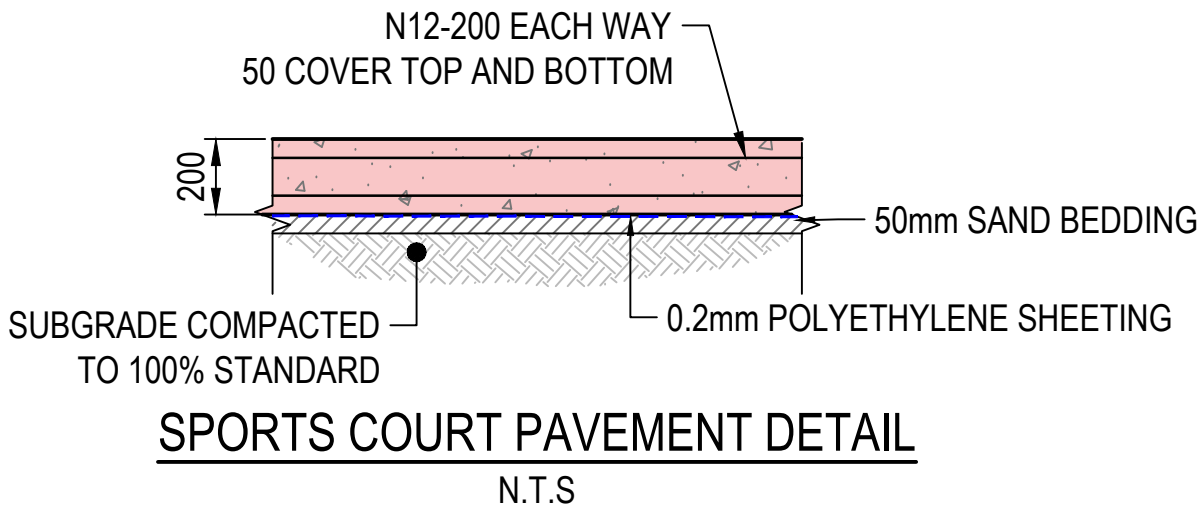
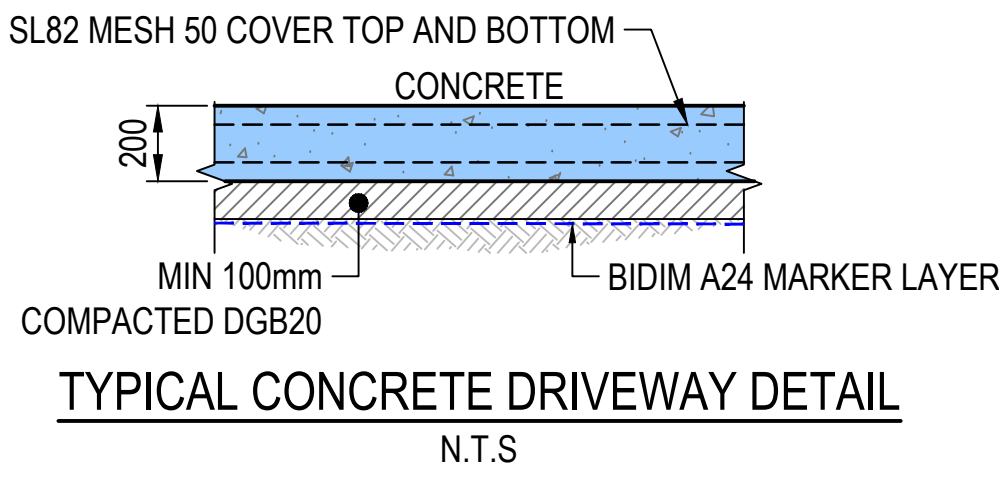
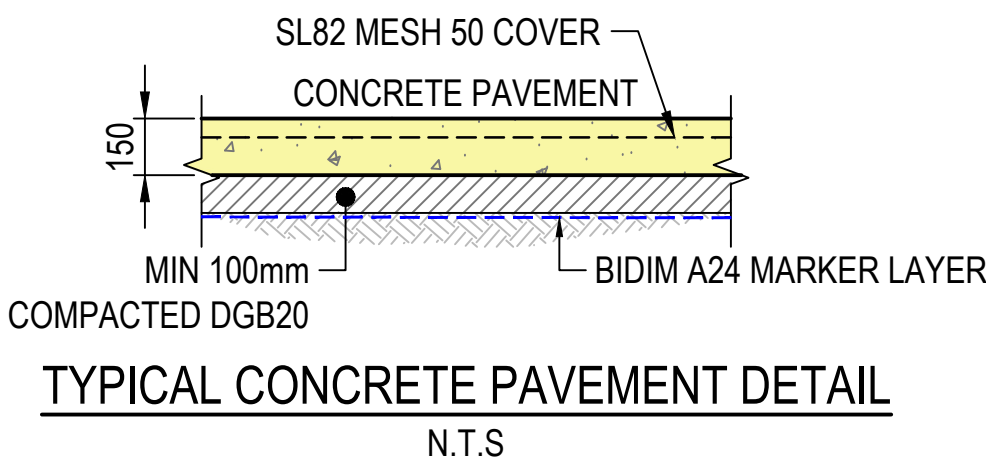
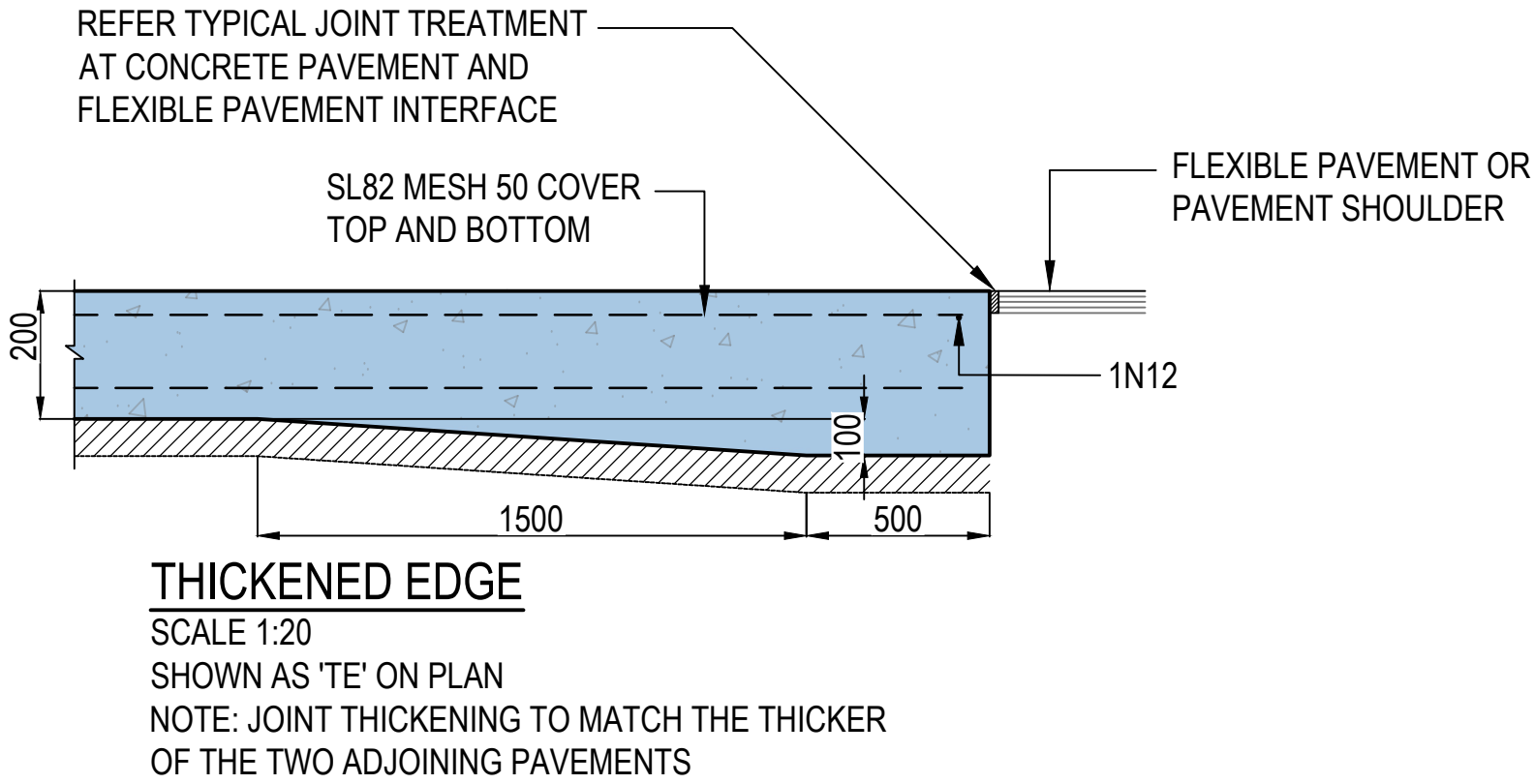
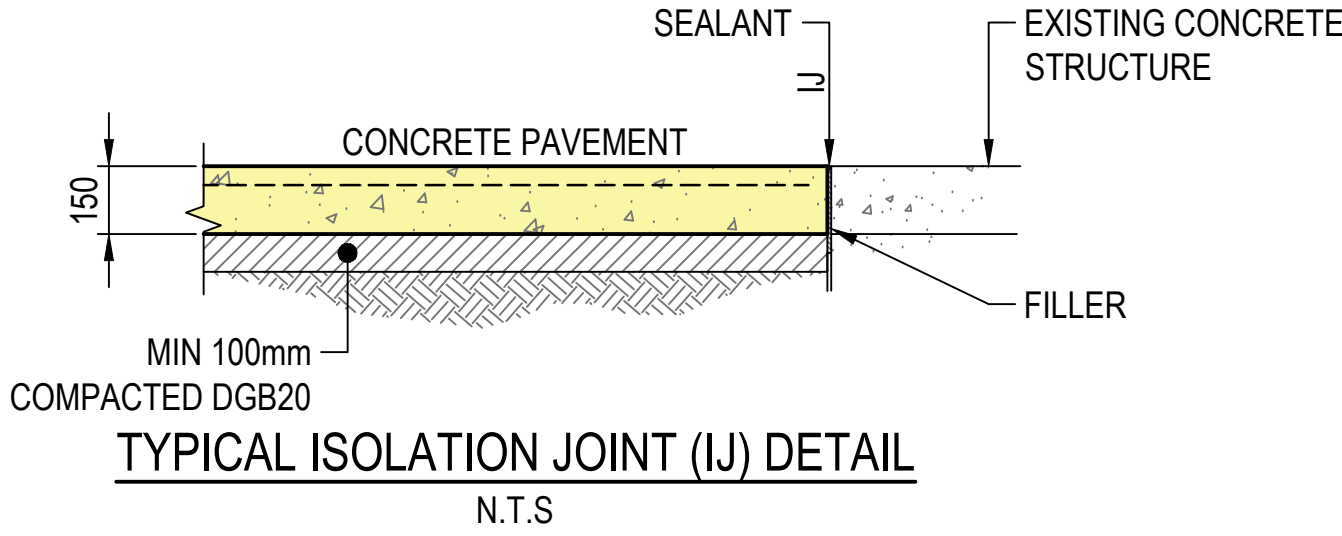
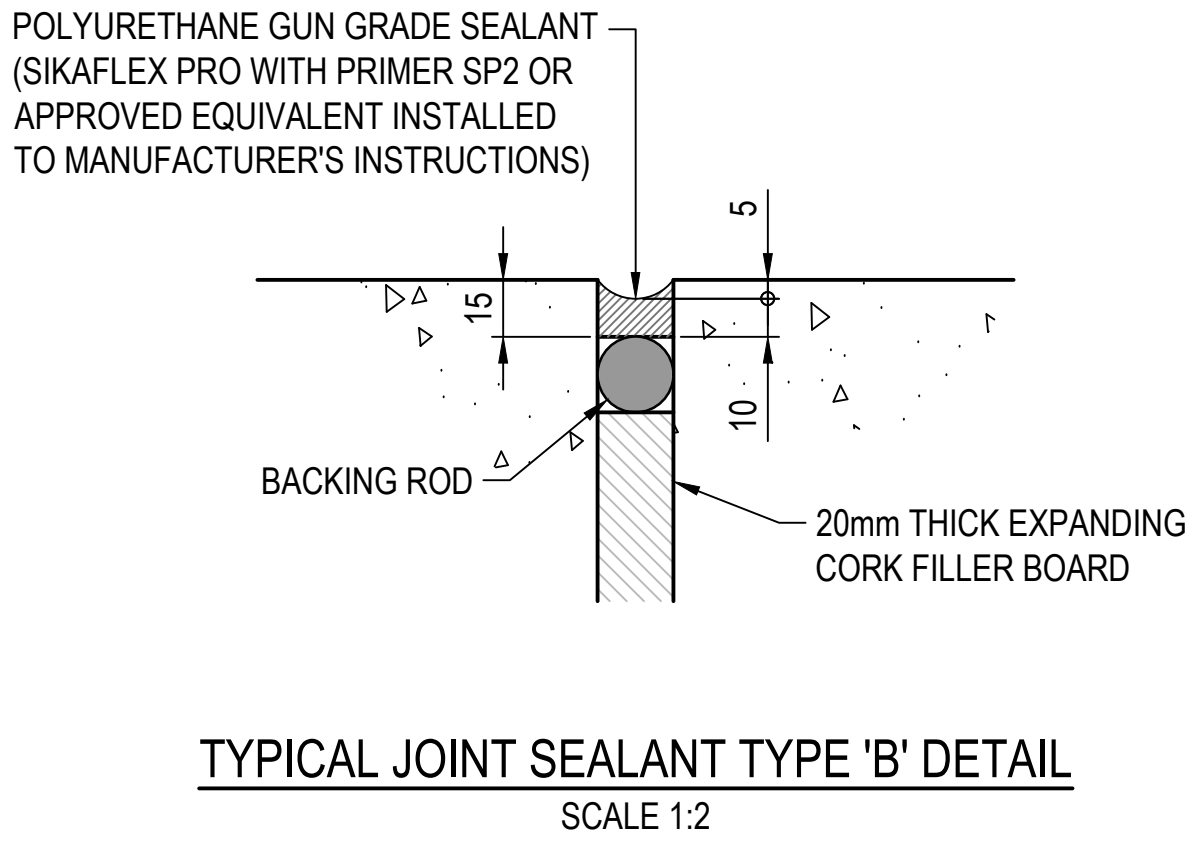
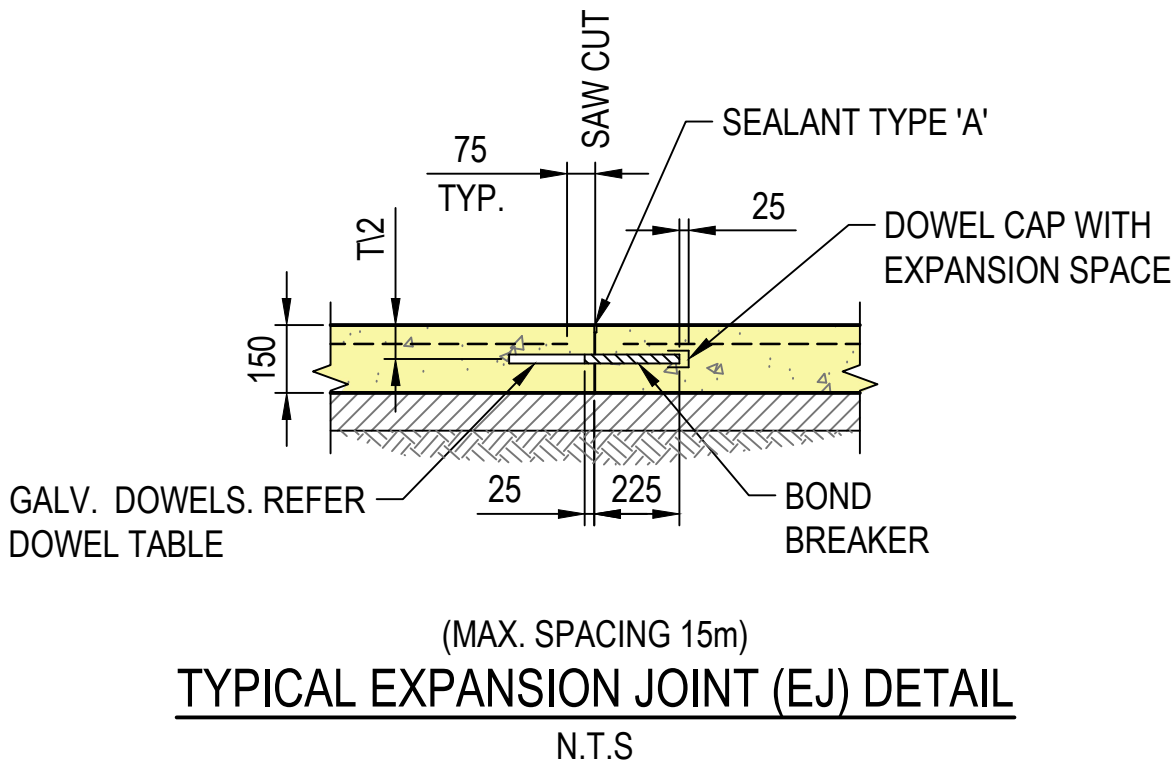
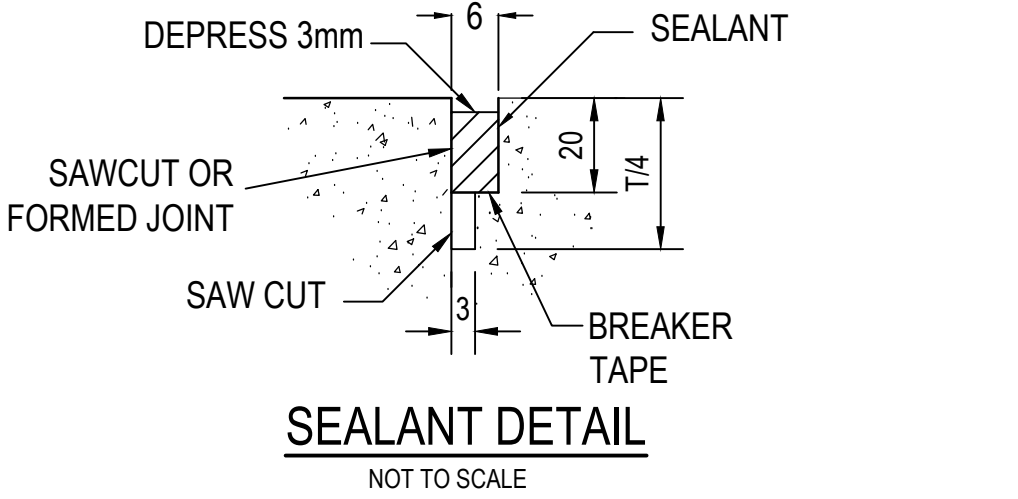
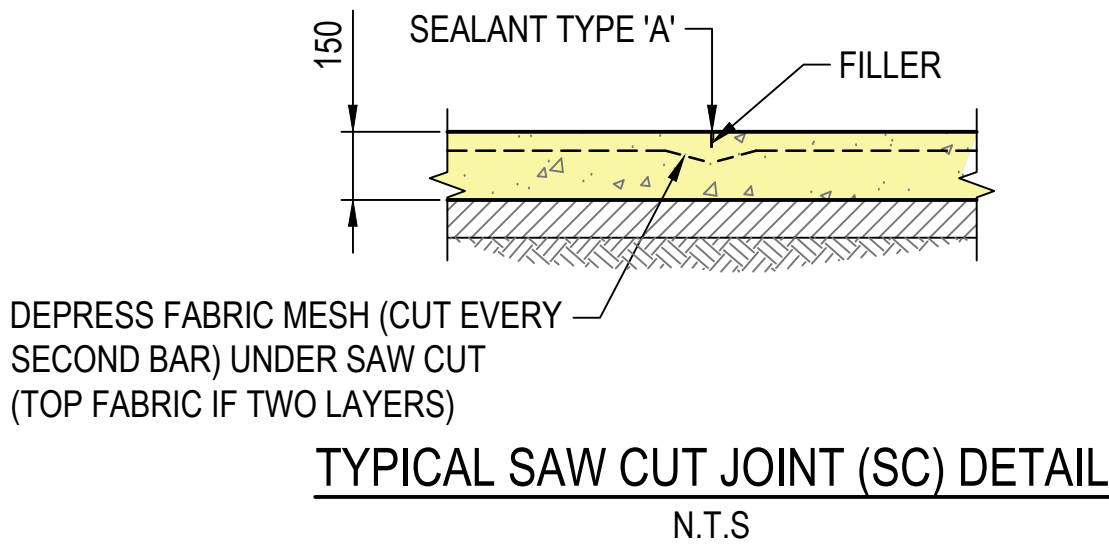
CONCRETE JOINTING AS SHOWN ON PLAN OR AT 5m MAX. CENTRES - TYPICAL ALL CONCRETE ROADS.
6.

EXPANSION JOINTS (EJ) AS SHOWN ON PLAN OR AT 30m INTERVALS MAX.
7.

SEALANT TO BE POLYSULPHIDE OR EQUIVALENT INSTALLED TO MANUFACTURER'S SPECIFICATION.
8.

FILLER TO BE ABLEFLEX OR EQUIVALENT INSTALLED TO MANUFACTURER'S SPECIFICATION.
9.

SAWCUTS TO BE CARRIED OUT WITHIN 24hrs OF POUR. UNLESS OTHERWISE APPROVED BY THE ENGINEER.



Ø150mm GALVANISED STEEL FIXED BOLLARD (POWDER COATED 'SAFETY YELLOW'), 1300mm HIGH WITH PLASTIC CAP AND REFLECTIVE TAPE ATTACHED. BOLLARD INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND DETAILS

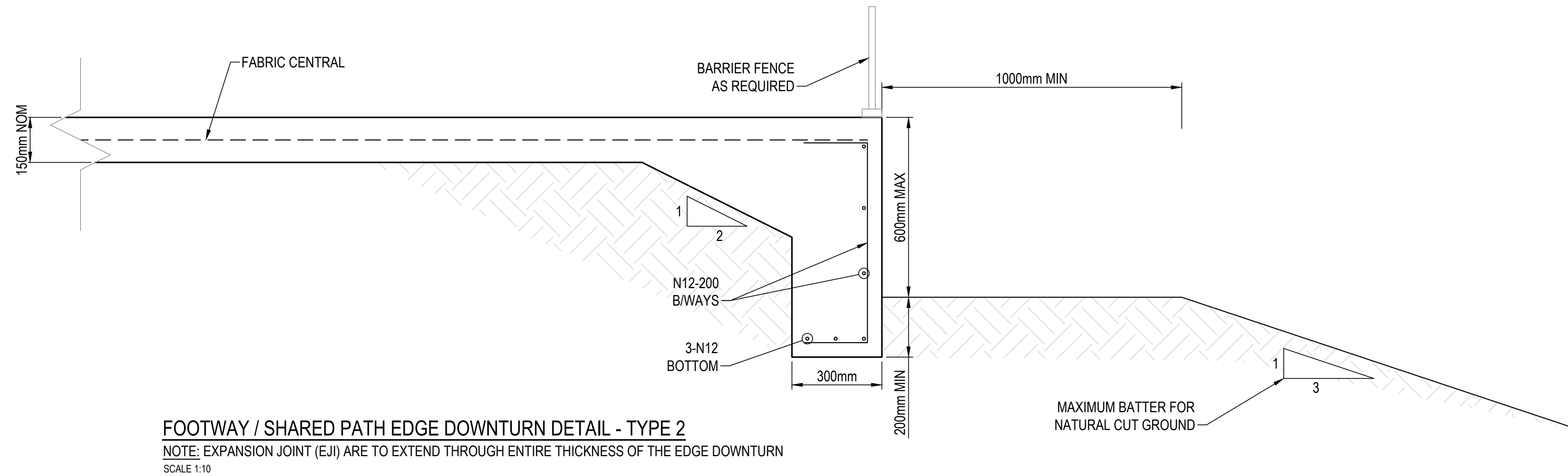
250 x 250 x 12mm THICK GALVANISED STEEL BASE PLATE FIXED USING 16mm GALVANISED CHEMSET FIXING LUGS (4 OFF)

PAVEMENT AS SPECIFIED

BOLLARD 'B'  
PROVIDE 600mm CLEARANCE TO FACE OF KERB / TRAVEL LANE  
N.T.S.







										North	Scale	Architect SCHOOL INFRASTRUCTURE NSW 	Client SCHOOL INFRASTRUCTURE NSW 8/259 GEORGE STREET, SYDNEY NSW 2000 T: 1300 482 651	Architect EJE ARCHITECTURE 412 KING STREET, NEWCASTLE NSW 2300 T: 02 4929 2353 E: mail@eje.com.au	Project ACOR Consultants Pty Ltd The Forum, Level 1 Suite 1 240-244 Pacific Highway Charlestown NSW 2290 T +61 2 4926 4811 	Project NEWCASTLE HIGH SCHOOL REDEVELOPMENT CONSTRUCTION CERTIFICATE 1 - EARLY WORKS 25A NATIONAL PARK STREET NEWCASTLE WEST NSW 2302 	Drawing Title CIVIL SERVICES PAVEMENT DETAILS SHEET 2				Drawn MDM	Designed JK	G.A. Check JPR	Date 06.05.24	Scale @ A1 N.T.S.
A ISSUED FOR PRELIMINARY REVIEW 06.05.24 MDM JPR Approved										PRINT IN COLOUR 	NOT FOR CONSTRUCTION				Project No. NS230761	Drawing No. C209-0202	Issue A								

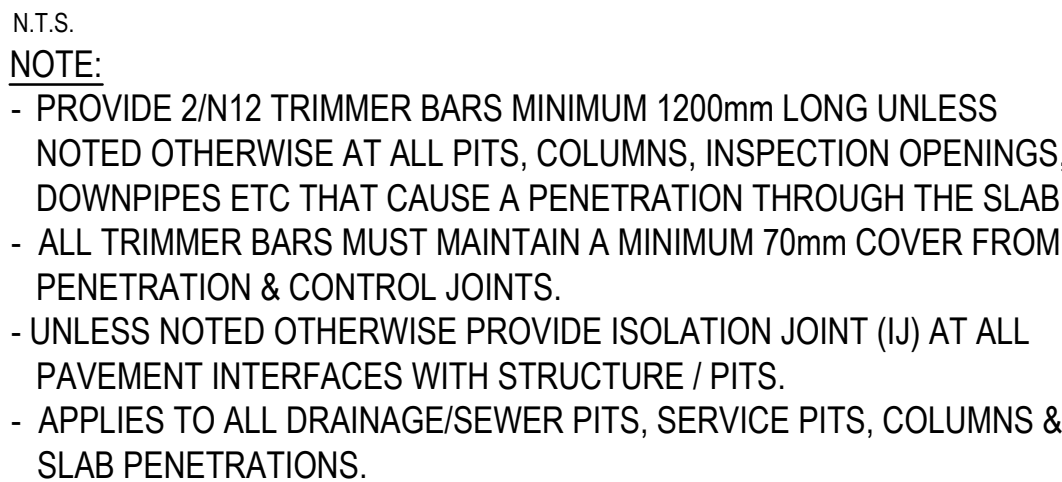
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May 06, 2024 - 5:05pm  
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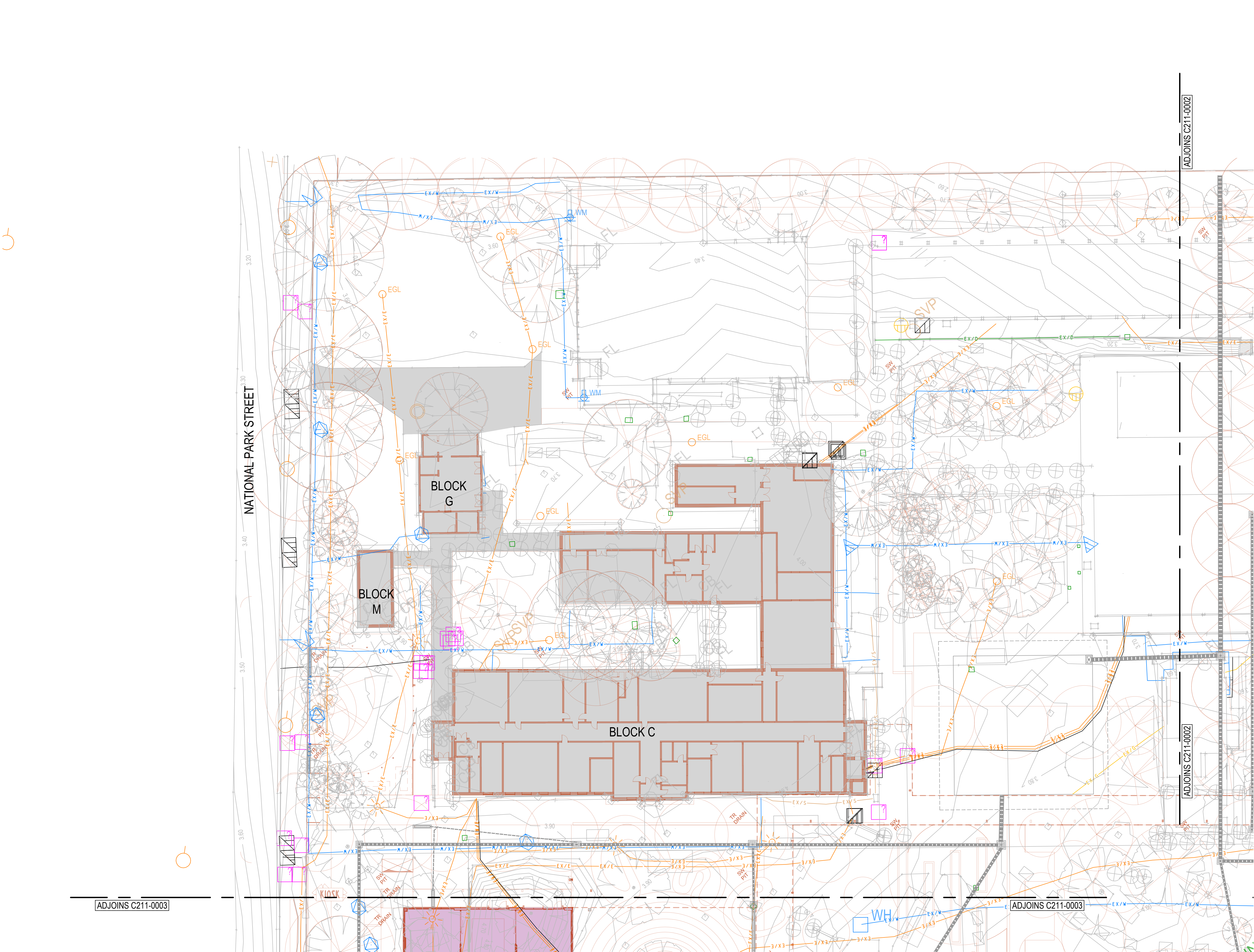




Drawing Title <b>CIVIL SERVICES</b> <b>RETAINING WALL NOTES AND DETAILS</b>			
Drawn <b>MDM</b>	Designed <b>JK</b>	Q.A. Check <b>JPR</b>	Date <b>06.05.24</b>
Scale @ A1 <b>N.T.S.</b>			Issue <b>A</b>
Project No. <b>NS230761</b>		Drawing No. <b>C210-0101</b>	

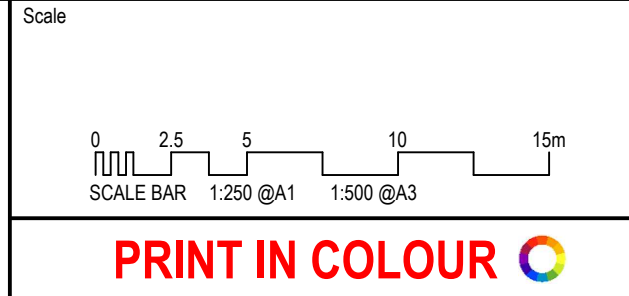
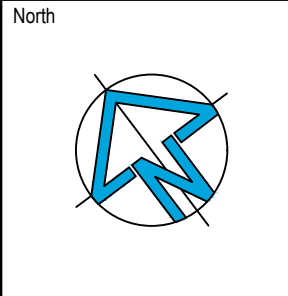






LEGEND	
	EXISTING STORMWATER PIPE
	EXISTING SEWER MAIN
	EXISTING ELECTRICAL LINE
	EXISTING GAS MAIN
	EXISTING COMMUNICATIONS LINE
	EXISTING WATER MAIN
	EXISTING STORMWATER PIT
	EXISTING ELECTRIC JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING ELECTRIC GARDEN LIGHT
	EXISTING SEWER MANHOLE
	EXISTING COMMS JUNCTION BOX
	EXISTING WATER HYDRANT
	EXISTING WATER MAIN MARKER
	EXISTING FIRE HYDRANT
	EXISTING UNIDENTIFIED SERVICE

Issue	Description	Date	Drawn	Approved
A	ISSUED FOR PRELIMINARY REVIEW	06.05.24	MDM	JPR



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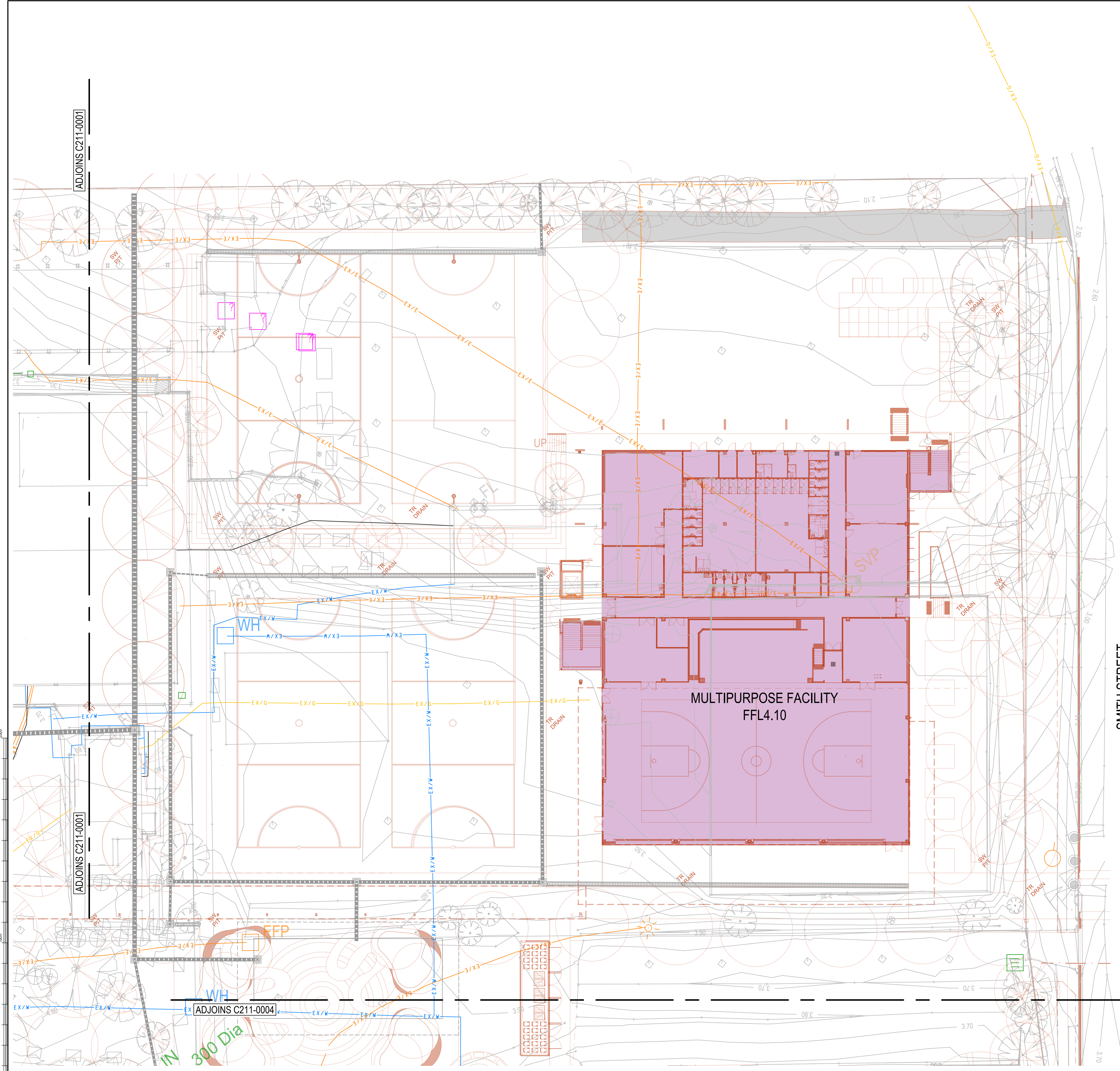
**ACOR Consultants Pty Ltd**  
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Project  
**NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS**  
25A NATIONAL PARK STREET  
NEWCASTLE WEST NSW 2302

Drawing Title CIVIL SERVICES EXISTING UTILITIES PLAN SHEET 1				
Drawn MDM	Designed JK	O.A. Check JPR	Date 06.05.24	Scale @ A1 1:250
Project No. NS230761	Drawing No. C211-0001	Issue A		







LEGEND

EX/D

EXISTING STORMWATER PIPE

EX/S

EXISTING SEWER MAIN

EX/E

EXISTING ELECTRICAL LINE

EX/G

EXISTING GAS MAIN

EX/C

EXISTING COMMUNICATIONS LINE

EX/W

EXISTING WATER MAIN

EXISTING STORMWATER PIT

EJB

EXISTING ELECTRIC JUNCTION BOX

EXISTING LIGHT POLE

EGL

EXISTING ELECTRIC GARDEN LIGHT

EXISTING SEWER MANHOLE

EXISTING COMMS JUNCTION BOX

WH

EXISTING WATER HYDRANT

WM

EXISTING WATER MAIN MARKER

EXISTING FIRE HYDRANT

EXISTING UNIDENTIFIED SERVICE

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Scale

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SCALE BAR 1:250 @A1 1:500 @A3

PRINT IN COLOUR

Client

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT

CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET

NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES

EXISTING UTILITIES PLAN

SHEET 2

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

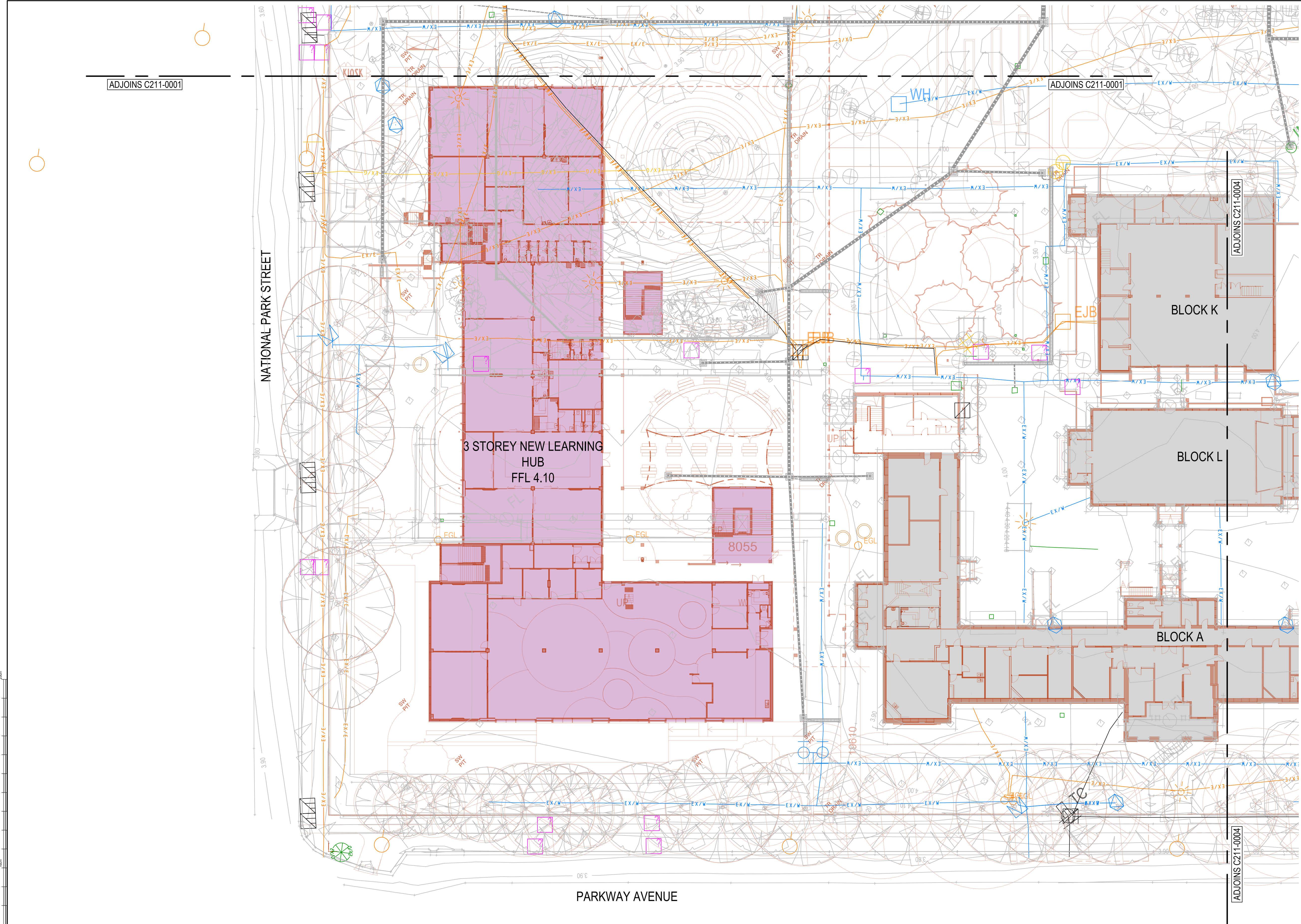
C211-0002

Issue

A

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LEGEND

EX/D

EXISTING STORMWATER PIPE

EX/S

EXISTING SEWER MAIN

EX/E

EXISTING ELECTRICAL LINE

EX/G

EXISTING GAS MAIN

EX/C

EXISTING COMMUNICATIONS LINE

EX/W

EXISTING WATER MAIN

EXISTING STORMWATER PIT

EJB

EXISTING ELECTRIC JUNCTION BOX

EXISTING LIGHT POLE

EGL

EXISTING ELECTRIC GARDEN LIGHT

EXISTING SEWER MANHOLE

EXISTING COMMS JUNCTION BOX

WH

EXISTING WATER HYDRANT

WM

EXISTING WATER MAIN MARKER

EXISTING FIRE HYDRANT

EXISTING UNIDENTIFIED SERVICE

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100

North

Scale

0

2.5

5

10

15m

SCALE BAR 1:250 @A1 1:500 @A3

Client

SCHOOL INFRASTRUCTURE NSW

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Project

NEWCASTLE HIGH SCHOOL REDEVELOPMENT

CONSTRUCTION CERTIFICATE 1 - EARLY WORKS

25A NATIONAL PARK STREET

NEWCASTLE WEST NSW 2302

Drawing Title

CIVIL SERVICES

EXISTING UTILITIES PLAN

SHEET 3

Drawn

MDM

Designed

JK

O.A. Check

JPR

Date

06.05.24

Scale @ A1

1:250

Project No.

NS230761

Drawing No.

C211-0003

Issue

A

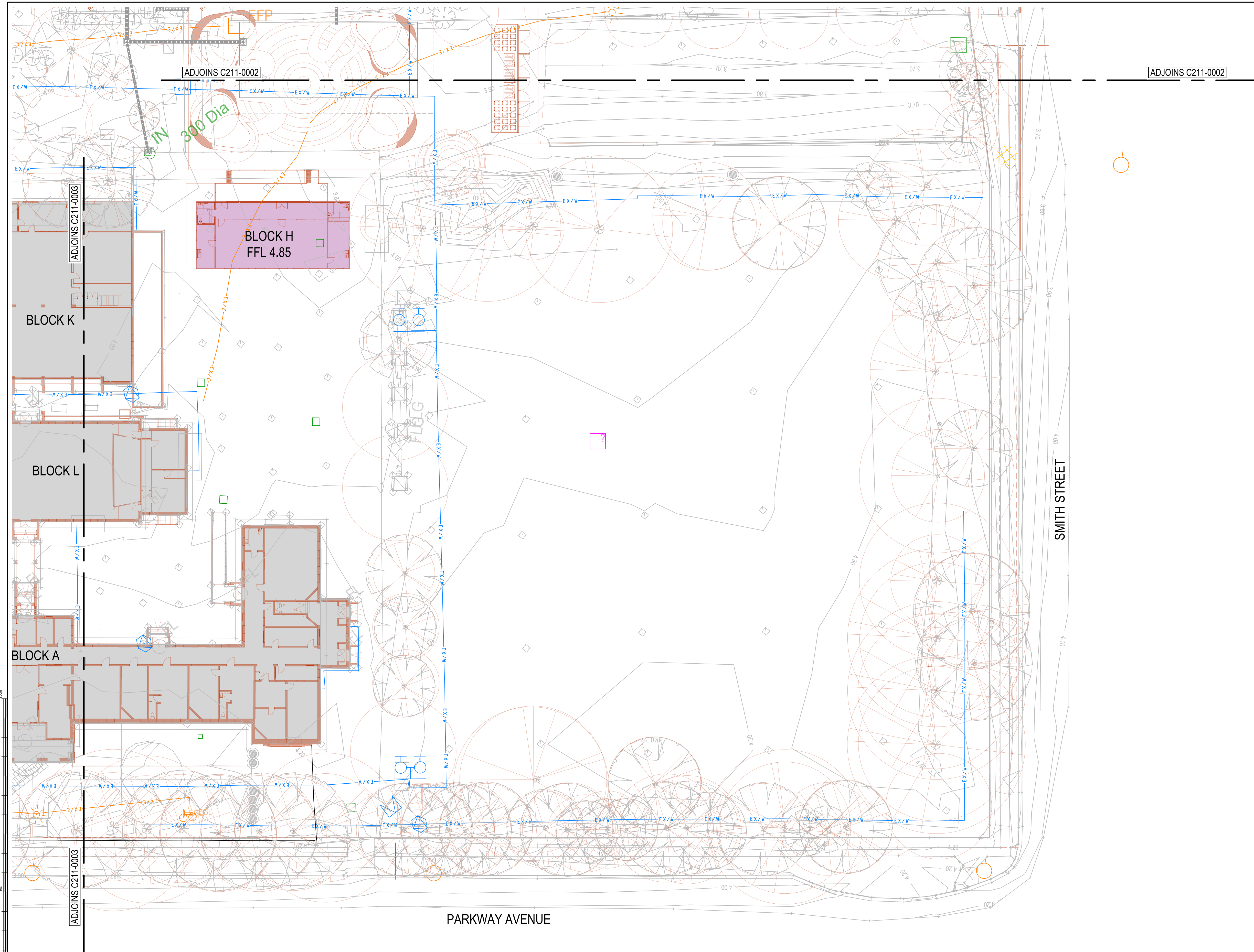
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BEFORE YOU DIG

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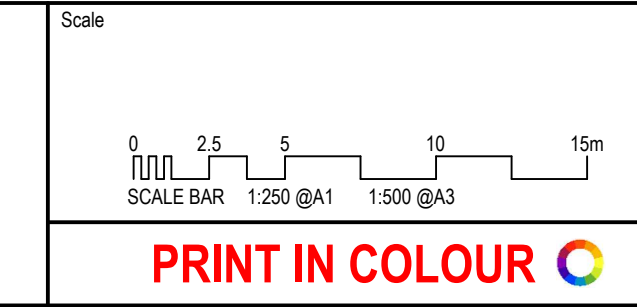
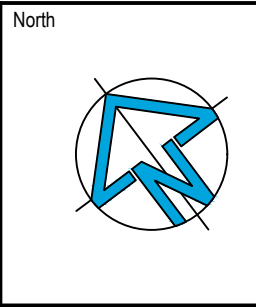
Zero Damage - Zero Harm





LEGEND	
	EXISTING STORMWATER PIPE
	EXISTING SEWER MAIN
	EXISTING ELECTRICAL LINE
	EXISTING GAS MAIN
	EXISTING COMMUNICATIONS LINE
	EXISTING WATER MAIN
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	EXISTING WATER HYDRANT
	EXISTING WATER MAIN MARKER
	EXISTING FIRE HYDRANT
	EXISTING UNIDENTIFIED SERVICE

Issue	Description	Date	MDM	JPR
A	ISSUED FOR PRELIMINARY REVIEW	06.05.24	MDM	JPR
			Drawn	Approved



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Project  
**NEWCASTLE HIGH SCHOOL REDEVELOPMENT  
CONSTRUCTION CERTIFICATE 1 - EARLY WORKS**

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NEWCASTLE WEST NSW 2302

Drawing Title CIVIL SERVICES EXISTING UTILITIES PLAN SHEET 4				
Drawn MDM	Designed JK	O.A. Check JPR	Date 06.05.24	Scale @ A1 1:250
Project No. NS230761	Drawing No. C211-0004	Issue A		

