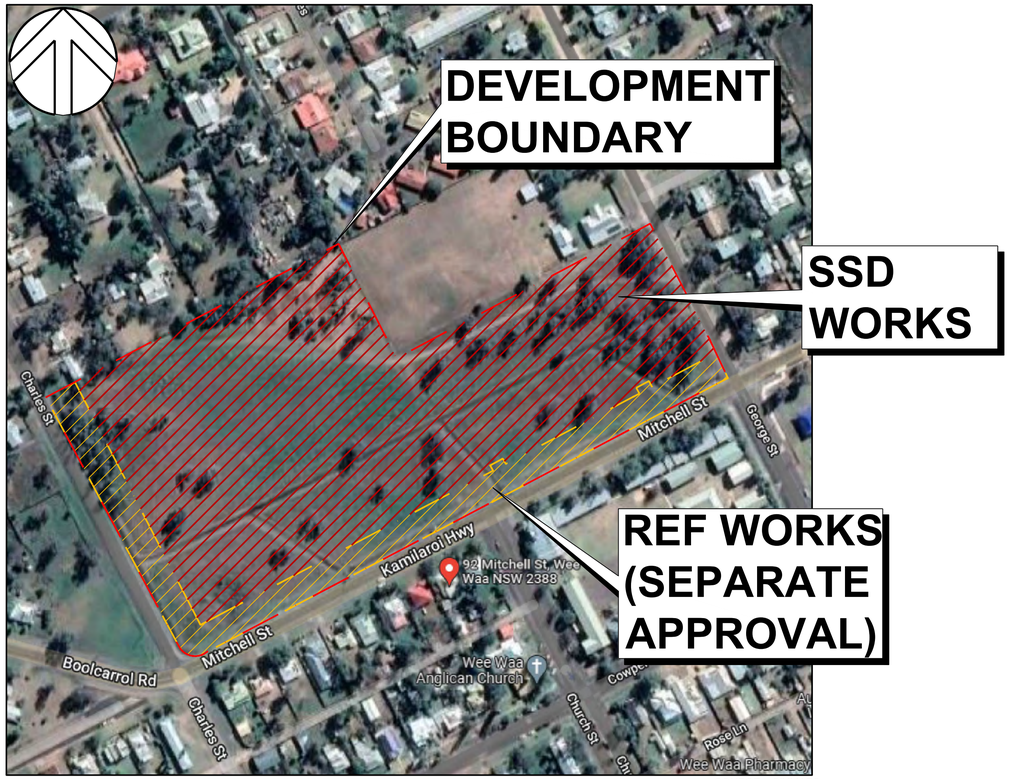
WEE WAA HIGH SCHOOL SSD
CIVIL & STORMWATER

ISSUED FOR REVIEW



SOURCE : SIXMAPS

LOCALITY AERIAL
NOT TO SCALE

Sheet List Table		
DWG	Sheet Title	REV
C1.01	Cover Sheet	1
C3.01	Bulk Earthworks Plan	1
C3.02	Bulk Earthworks Cut & Fill Plan	1
C3.10	Site Layout Plan	1
C3.11	Fill Pad School Buildings Section A-A	1
C3.12	Fill Pad Oval Section B-B	1
C3.13	Fill Pad Oval CH00.00 to CH182.41	1
C6.01	Stormwater Layout Plan - Sheet 1	1
C6.02	Stormwater Layout Plan - Sheet 2	1
C6.03	Stormwater Layout Plan - Sheet 3	1
C6.04	Stormwater Layout Plan - Sheet 4	1
C6.05	Stormwater Layout Plan - Sheet 5	1
C6.11	Stormwater Channel 2 & 3 Longitudinal Section	1
C6.21	Stormwater Channel 2 CH00.00 to CH50.00	1
C6.22	Stormwater Channel 3 CH00.00 to CH183.93	1
C6.31	Stromwater Pit Schedule	1

CLIENT
NSW GOVERNMENT

PROJECT MANAGER
Built

ARCHITECT
SHAC

Warren Smith Consulting Engineers

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GLOBAL COMPLIANCE CERTIFICATION GCC ISO 9001 Certified

Serving the Construction Industry since 1981.

TITLE
COVER SHEET

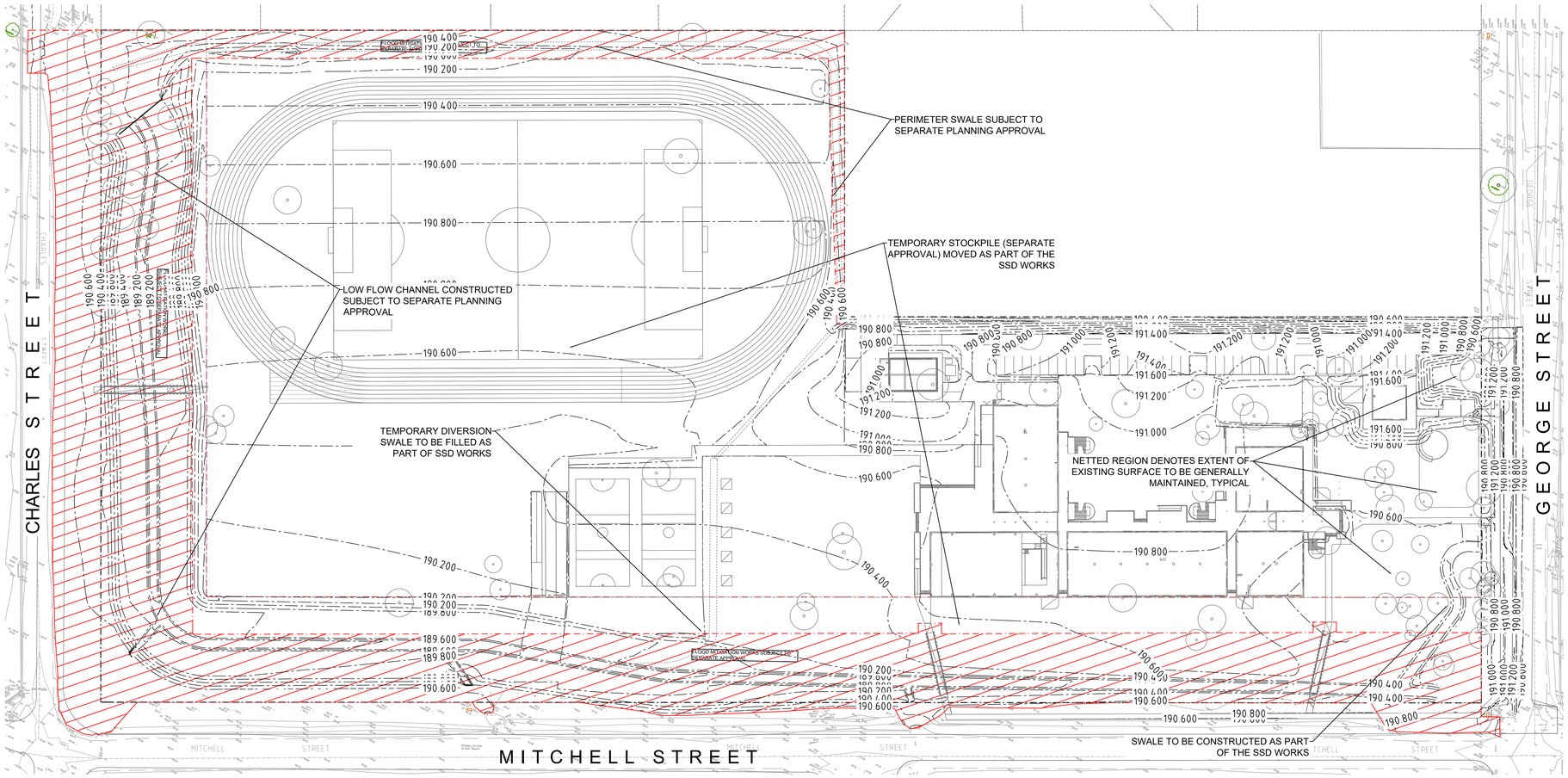
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C1.01	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

Plot Date

Cad File: \\DC01\WSP\LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 3D\Issue for Review\C1.01 Cover Sheet.dwg
Login Name: NGupta
Plot Date: 22.06.2022@11:53:07
Xref:



LEGEND

- SITE BOUNDARY
- NATURAL SURFACE CONTOUR
- DEPTH CONTOUR
- TOP OF BATTER
- BOTTOM OF BATTER
- APPROXIMATE EXTENT OF NATURAL GROUND LEVELS TO BE MAINTAINED

NOTE:

1. VOLUMES ARE PRELIMINARY ONLY AND IS SUBJECT TO CHANGE. CONTRACTOR TO CONFIRM BULK EARTHWORKS VOLUMES AND LEVELS BASED ON THEIR OWN ASSUMPTIONS AND CALCULATIONS. THE FOLLOWING DEPTH PROFILES WERE ADOPTED FOR THE BULK EARTHWORKS.
   - ASSUMED CONCRETE STRUCTURAL SLABS (SLAB ON GROUND TBC BY THE STRUCTURAL ENGINEER) 350 mm
   - RIGID (CONCRETE) PAVEMENT THICKNESS 400 mm
   - FOOTPATHS 220 mm
   - LANDSCAPING TOP SOIL - 300 mm (TBC BY THE LANDSCAPE ARCHITECT)
   - FLEXIBLE PAVEMENT THICKNESS - 500 mm
2. VOLUMES FROM PIPE TRENCH HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS.
3. TOP SOIL STRIPPING & REMOVAL - 300 mm, TOP SOIL STRIPPING EXTENDED TO NATURAL CLAY OR CLAYEY SAND SOIL IN ACCORDANCE WITH BARNSON PTY. LTD. REPORT 35754-GR01_A, DATED 14/04/2021
4. TEMPORARY BATTERS ASSUMED TO BE 1 in 2.
5. BULKING FACTORS HAVE NOT BEEN INCLUDED.
6. ALLOW A +/-15% TOLERANCE FOR THESE VOLUMES.
7. EXTENT OF CUTTING/FILLING IN THE VICINITY OF EXISTING TREES SHALL BE CONFIRMED BY THE PROJECT ARBORIST.
8. TREE PROTECTION ZONES TO BE CONFIRMED BY THE PROJECT ARBORIST.
9. NO ALLOWANCE HAS BEEN MADE IN THE BULK EARTHWORKS CALCULATION FOR THE PURPOSE OF REMEDIATION WORKS. IF REQUIRED, CONTRACTOR TO ENSURE ALL ALLOWANCES HAS BEEN MADE TO UNDERTAKE ANY REMEDIATION WORKS.

BULK EARTHWORKS SUMMARY 1: SSD WORKS
NOTE: BULK EARTHWORKS COMPARISON BETWEEN SSD WORKS AND REF WORKS (SEPARATE APPROVAL)

CUT 9,350 m³
FILL 9,310 m³
NET 40 m³ (REMOVAL)

TOTAL 40 m³ (REMOVAL)

NOTE: PRELIMINARY BULK EARTHWORKS SUMMARY TO BE FURTHER REVIEWED AND DEVELOPED DURING THE DETAILS DESIGN STAGE

PRELIMINARY - NOT FOR CONSTRUCTION

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NORTH

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

12.5 0 5 10 15 20 25m
PLAN SCALE 1:750 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY
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www.warrensmith.com.au
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Hydraulic Fire Civil Utilities Infrastructure
GCC ISO 9001 Certified

TITLE: **BULK EARTHWORKS PLAN**

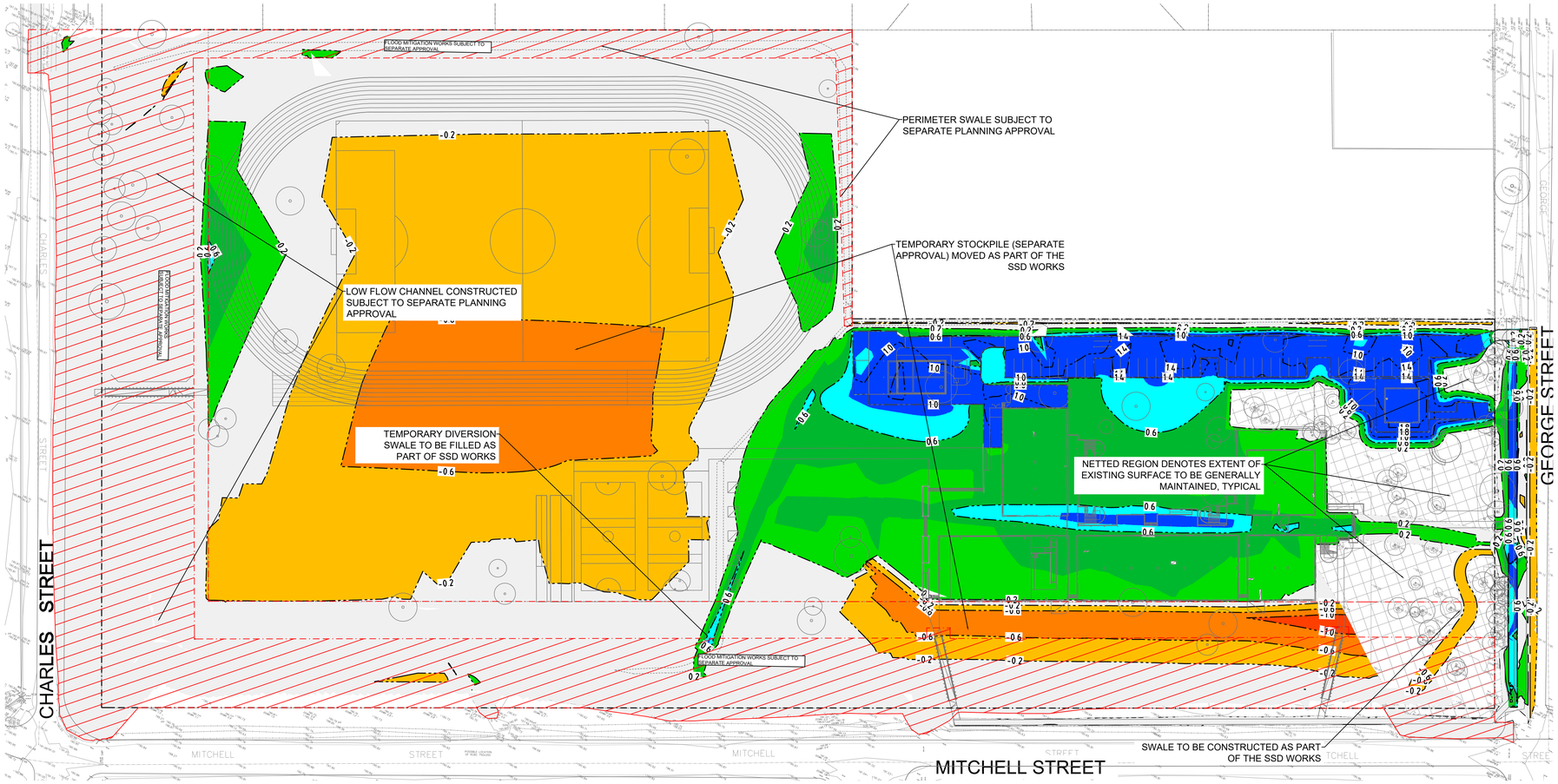
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C3.01	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
SHEET SIZE: A1

Xrefs: X:\490000-TB_AHI\ X:\490000-SU-Ground\ X:\490000-SU-BDY\ X:\490000-AR-Ground
Plot Date: 22.06.2022@11:14:42 Login Name: NGupta Cad File: \\DC01\WSP\LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C3.01 Bulk Earthworks Plan.dwg



LEGEND

- SITE BOUNDARY
- NATURAL SURFACE CONTOUR
- DEPTH CONTOUR
- TOP OF BATTER
- BOTTOM OF BATTER
- APPROXIMATE EXTENT OF NATURAL GROUND LEVELS TO BE MAINTAINED

NOTE:

1. VOLUMES ARE PRELIMINARY ONLY AND IS SUBJECT TO CHANGE. CONTRACTOR TO CONFIRM BULK EARTHWORKS VOLUMES AND LEVELS BASED ON THEIR OWN ASSUMPTIONS AND CALCULATIONS. THE FOLLOWING DEPTH PROFILES WERE ADOPTED FOR THE BULK EARTHWORKS.
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   - RIGID (CONCRETE) PAVEMENT THICKNESS 400 mm
   - FOOTPATHS 220 mm
   - LANDSCAPING TOP SOIL - 300 mm (TBC BY THE LANDSCAPE ARCHITECT)
   - FLEXIBLE PAVEMENT THICKNESS - 500 mm
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4. TEMPORARY BATTERS ASSUMED TO BE 1 in 2.
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8. TREE PROTECTION ZONES TO BE CONFIRMED BY THE PROJECT ARBORIST.
9. NO ALLOWANCE HAS BEEN MADE IN THE BULK EARTHWORKS CALCULATION FOR THE PURPOSE OF REMEDIATION WORKS. IF REQUIRED, CONTRACTOR TO ENSURE ALL ALLOWANCES HAS BEEN MADE TO UNDERTAKE ANY REMEDIATION WORKS.

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NOTE: BULK EARTHWORKS COMPARISON BETWEEN SSD WORKS AND REF WORKS (SEPARATE APPROVAL)

CUT 9,350 m³
FILL 9,310 m³
NET 40 m³ (REMOVAL)

TOTAL 40 m³ (REMOVAL)

NOTE: PRELIMINARY BULK EARTHWORKS SUMMARY TO BE FURTHER REVIEWED AND DEVELOPED DURING THE DETAILS DESIGN STAGE

PRELIMINARY - NOT FOR CONSTRUCTION

Levels Table

No.	From Depth	To Depth	Colour
1	-2.000	-1.500	
2	-1.500	-1.000	
3	-1.000	-0.600	
4	-0.600	-0.200	
5	-0.200	0.000	
6	0.000	0.200	
7	0.200	0.400	
8	0.400	0.600	
9	0.600	0.800	
10	0.800	1.900	

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12.5 0 5 10 15 20 25m
PLAN SCALE 1:750 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY

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Hydraulic Fire Civil Utilities Infrastructure

TITLE: BULK EARTHWORKS CUT & FILL PLAN

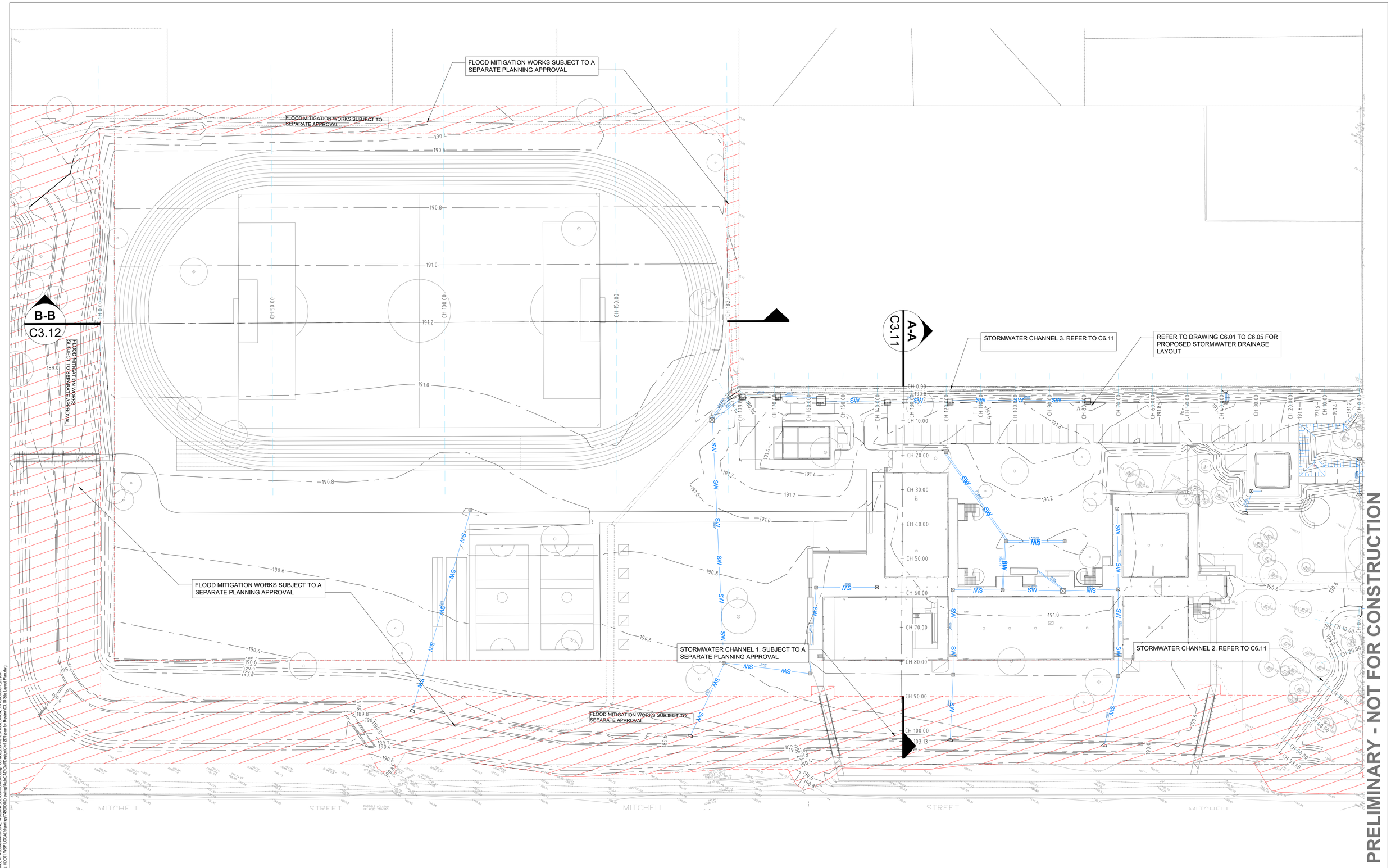
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C3.02	1

DATE: MARCH 2022
STATUS: ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
SHEET SIZE: A1

Xref(s): X:\490000\TB_A1H; 7490000\WSCC\SS-MD-009-Bulk Earthworks_Bulk Bay; X:\490000\AR-Ground; X:\490000\SU-BDY; 7490000\WSCC\SS-MD-009-Bulk Earthworks; EBS; X:\490000\SU-Ground
Plot Date: 20.06.2022@11:15:43 Login Name: NGupta Cad File: \\ZC01\WSP\LOCAL\drawings\490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C3.02 Bulk Earthworks Cut & Fill Plan.dwg



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10.0 0 5.0 10.0 15.0 20.0m
PLAN SCALE 1:500 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT

Built NSW GOVERNMENT

PROJECT

WEE WAA HIGH SCHOOL
SSD

PREPARED BY

Warren Smith Consulting Engineers

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Hydraulic Fire Civil Utilities Infrastructure

GCC ISO 9001 Certified

TITLE

SITE LAYOUT PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

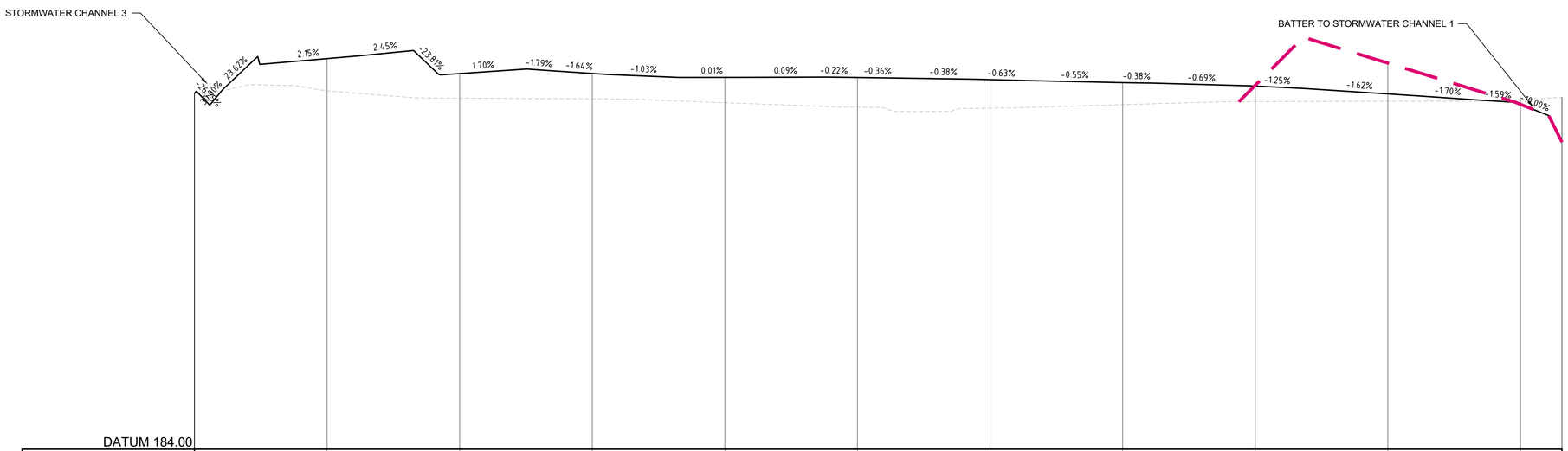
JOB No.	DRAWING No.	ISSUE
7490000	C3.10	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

Xrefs: X-7490000-TB, A1N, X-7490000-SU-Ground, X-7490000-AR-Ground, 7490000 NRCSE-CS-MD-006-Design Surface, EIS with LONGSECTION, X-7490000-SW Layout
Plot Date: 22.06.2022@11:46:10 Login Name: NGupta Cad File: \\CD1\ WSP LOCAL\Drawings\7490000\Drawings\AutoCAD\CivilDesign\Civil 2D\Issue for Review\C3.10 Site Layout Plan.dwg

LEGEND

———	FINISHED SURFACE CONTOUR
- - - -	REF SURFACE (SUBJECT TO SEPARATE APPROVAL)
·····	EXISTING SURFACE CONTOUR
2.5% →	GRADE ARROW



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EXISTING LEVEL	190.708		190.754		190.617		190.603		190.531		190.447		190.428		190.495		190.551		190.560		190.591	190.633
DEPTH	0.000		0.609		0.463		0.479		0.477		0.559		0.538		0.415		0.294		0.136		-0.090	-0.845
CHAINAGE	0.000		10.000		20.000		30.000		40.000		50.000		60.000		70.000		80.000		90.000		100.000	103.132

FILL PAD SCHOOL BUILDING (SECTION A-A) LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

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2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT
Built
NSW GOVERNMENT

PROJECT
WEE WAA HIGH SCHOOL
SSD

PREPARED BY
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GCC ISO 9001 Certified

TITLE
FILL PAD SCHOOL BUILDINGS SECTION A-A

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C3.11	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

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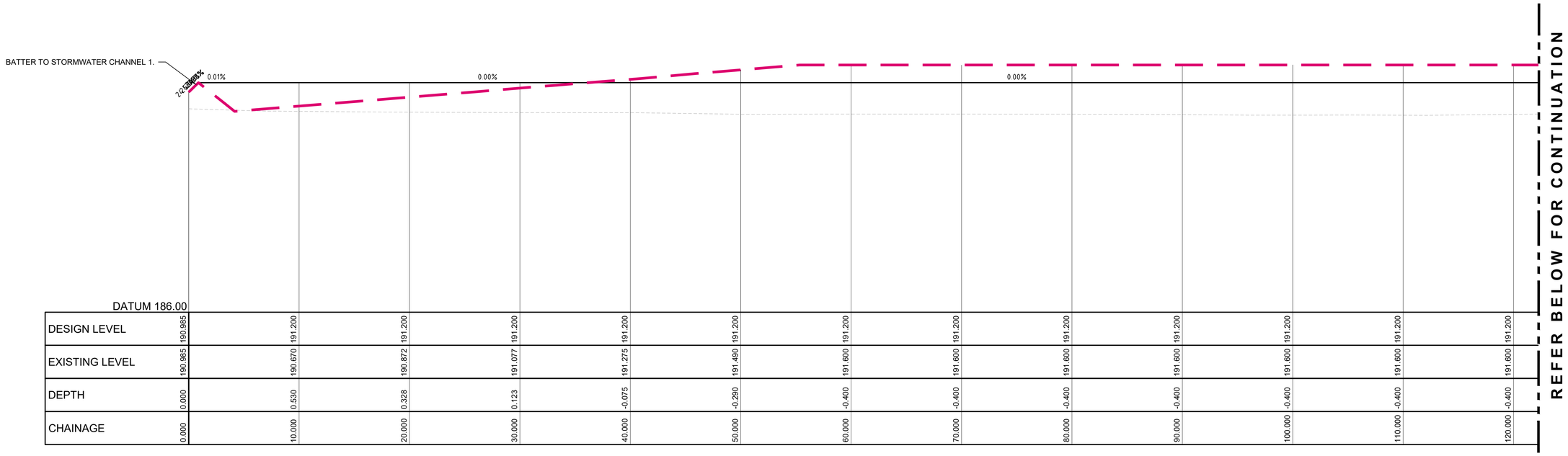
SHEET SIZE: A1

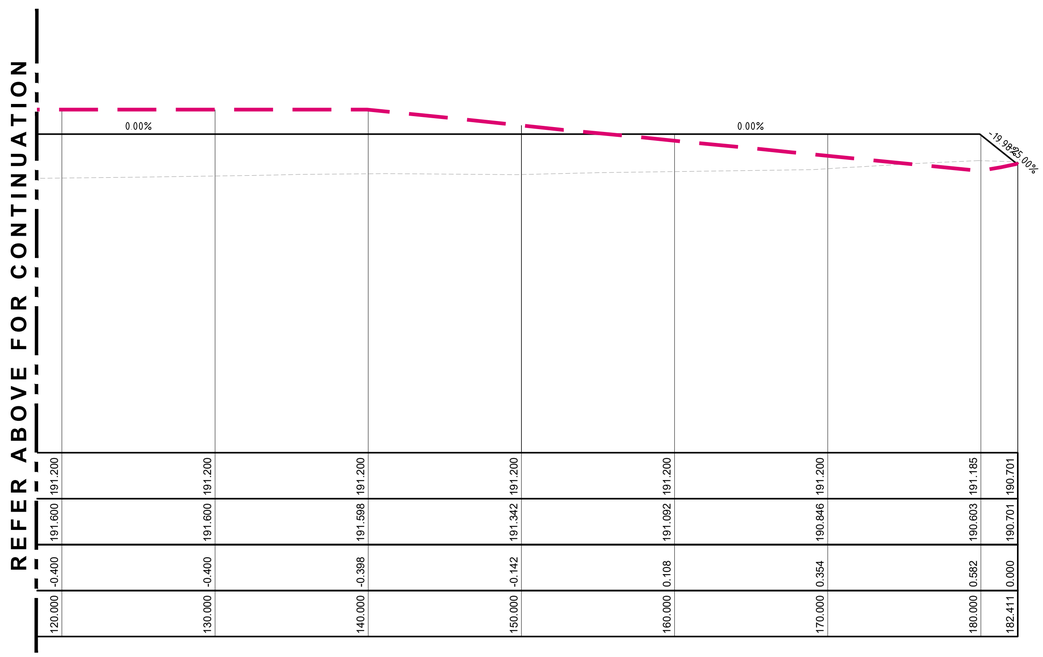
Xrefs: X:7490000-TB_AHK 7490000-WCGS-CS-MD-006-Design Surface, ESB with LONGSECTION, X:7490000-SW_Layout
Plot Date: 22.06.2022@11:16:08 Login Name: NGupta Cad File : DC01.WSP.LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C3.11 Fill Pad School Buildings Cross Sections.dwg



DESIGN LEVEL	190.985	191.200	191.200	191.200	191.200	191.200	191.200	191.200	191.200	191.200	191.200	191.200	191.200
EXISTING LEVEL	190.985	190.670	190.872	191.077	191.275	191.490	191.600	191.600	191.600	191.600	191.600	191.600	191.600
DEPTH	0.000	0.530	0.328	0.123	-0.075	-0.290	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000

FILL PAD OVAL (SECTION B-B) LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



191.200	191.200	191.200	191.200	191.200	191.200	191.185	190.701
191.600	191.600	191.598	191.342	191.092	190.846	190.603	190.701
-0.400	-0.400	-0.398	-0.142	0.108	0.354	0.582	0.000
120.000	130.000	140.000	150.000	160.000	170.000	180.000	182.411

FILL PAD OVAL (SECTION B-B) LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

LEGEND

- FINISHED SURFACE CONTOUR
- REF SURFACE (SUBJECT TO SEPARATE APPROVAL)
- EXISTING SURFACE CONTOUR
- 2.5% GRADE ARROW

PRELIMINARY - NOT FOR CONSTRUCTION

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2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY

Warren Smith Consulting Engineers
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ACN 002 197 088 ABN 36 300 430 126
Hydraulic Fire Civil Utilities Infrastructure
GCC ISO 9001 Certified

TITLE: FILL PAD OVAL SECTION B-B

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C3.12	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
SHEET SIZE: A1

Xrefs: X-7490000-TB, A1H: 7490000-WSCE-CS-MO-006-Design Surface, BIS: cath LONGSECTION, X-7490000-AB-Ground
Plot Date: 22.06.2022@11:16:21 Login Name: NGupta Cad File: \\DC01\WSP-LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C3.12 Fill Pad Oval Cross Sections.dwg

LEGEND

———	FINISHED SURFACE CONTOUR
———	REF SURFACE (SUBJECT TO SEPARATE APPROVAL)
- - - -	EXISTING SURFACE CONTOUR
2.5%	GRADE

STORMWATER CHANNEL 3

DESIGN LEVEL		190.894	190.865	190.898	190.855	190.806	190.748	190.701	190.644	190.404	191.181	191.092	
EXISTING LEVEL			190.865	190.898	190.855	190.806	190.748	190.701	190.644	190.569			
OFFSET	-75.000	-62.507	-53.568	-43.318	-32.865	-22.385	-10.021	0.000	12.135	22.173	35.684	50.000	

CHAINAGE 182.41
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.752	190.754	190.618	190.704	190.841	190.972	191.200	191.101	191.033	190.999	190.960	190.937	
EXISTING LEVEL		190.752	190.754	190.612	190.764	190.999	191.196	191.342	191.290	191.166	191.036	190.908	190.870	
OFFSET	-75.000	-62.668	-62.527	-52.348	-41.275	-29.899	-18.945	0.000	14.026	25.713	36.199	46.737	50.000	

CHAINAGE 150.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.533	190.255	190.675	190.809	190.943	191.077	191.200	191.072	190.950	190.830	190.738	190.716	
EXISTING LEVEL		190.533	190.254	190.737	191.023	191.308	191.594	191.600	191.600	191.600	191.600	191.472	191.414	
OFFSET	-75.000	-62.915	-57.157	-43.769	-32.604	-21.440	-10.275	0.000	12.054	23.219	34.383	45.548	50.000	

CHAINAGE 100.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

STORMWATER CHANNEL (SEPARATE APPROVAL)

DESIGN LEVEL		190.511	190.032	190.646	190.780	190.913	191.047	191.200	191.061	190.949	190.821	190.767		
EXISTING LEVEL		190.511	189.884	190.663	190.938	191.195	191.440	191.490	191.492	191.493	191.415	191.347		
OFFSET	-75.000	-63.163	-56.657	-46.263	-35.098	-23.934	-12.769	0.000	14.109	27.248	43.054	50.000		

CHAINAGE 50.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

STORMWATER CHANNEL (SEPARATE APPROVAL)

DESIGN LEVEL		190.489	189.999	190.191	190.164	190.577	190.985	190.773	190.430	190.170	190.022	190.088		
EXISTING LEVEL		190.489	189.999	190.191	190.164	190.577	190.985	190.773	190.430	190.170	190.022	190.088		
OFFSET	-75.000	-61.132	-56.758	-35.210	-24.866	-12.716	0.000	10.063	24.762	35.656	45.679	50.000		

CHAINAGE 0.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

PRELIMINARY - NOT FOR CONSTRUCTION

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2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY
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GCC ISO 9001 Certified

TITLE: **FILL PAD OVAL CH00.00 TO CH182.41**

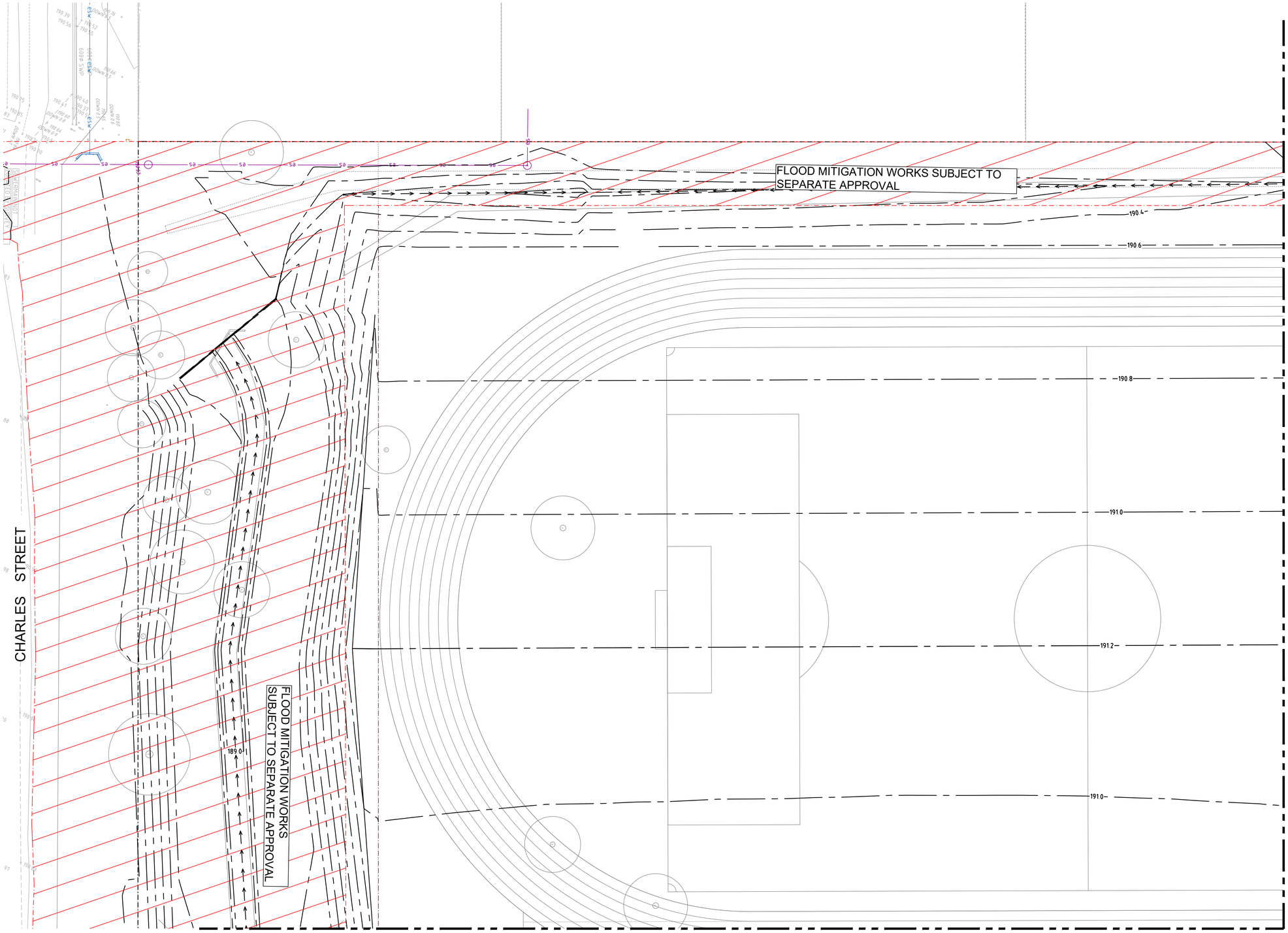
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C3.13	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
SHEET SIZE: A1

Xref(s): X:7490000.7B, A1N: 7490000.HNSCS-CS-MD-006-Design Surface, ESI: with LONGSECTION, X:7490000.HR-Ground
Plot Date: 22.06.2022@11:16:30 Login Name: NGuglia Cad File: \\DD31.WSP.LOCAL\Sydney\p7490000\Drawing\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C3.13 Fill Pad Oval Cross Sections.dwg



LEGEND

	BOUNDARY
	INDICATIVE OVERLAND FLOW ROUTE
esw	EXISTING STORMWATER PIPE
Ø450	PIPE DIAMETER AND DIRECTION OF FLOW
SW	STORMWATER PIPE (SIZE <Ø1050)
	GRATED INLET PIT
	KERB INLET PIT (AT SAG)
	KERB INLET PIT (ON GRADE)
	JUNCTION PIT
	CONCRETE HEADWALL
	PIT STRUCTURE NUMBER STORMWATER LINE NUMBER
RL 91.86	FINISHED SURFACE LEVEL
GRL 91.86	FINISHED STORMWATER PIT LID/GRATE LEVEL
2.5%	GRADE ARROW
SSD	SUBSOIL DRAINAGE LINE
	SWALE FLOW ARROW
	SHADED REGION DENOTES STRUCTURE ELEVATED ABOVE THE FINISHED GROUND LEVEL

REFER C6.02 FOR CONTINUATION

NOTES

1. MINOR SYSTEMS, CONSISTING OF PITS AND PIPE HAVE BEEN DESIGNED TO CAPTURE AND ATTENUATE STORMWATER RUNOFF TO PROPOSED FLOODWAY CHANNEL FOR ALL EVENTS UP TO 5% AEP.
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3. ON-SITE DETENTION SYSTEM (OSD) HAS NOT BEEN CONSIDERED DUE TO THE SUBJECT SITE BEING FLOOD AFFECTED. HOWEVER, COUNCIL ENGINEER TO CONFIRM WHETHER OSD IS REQUIRED.
4. COUNCIL ENGINEER TO CONFIRM WATER QUALITY TARGET OBJECTIVES FOR SUSPENDED SOLIDS (TSS), GROSS POLLUTANTS (GP), PHOSPHORUS (P) AND NITROGEN (N).
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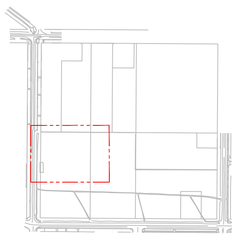
6. LOCATION AND SIZE OF RAINWATER TANK TO THE HYDRAULIC ENGINEERS DETAILS. INFORMATION TO BE CONFIRMED AND COORDINATED.



KEY PLAN
SCALE NTS

PRELIMINARY - NOT FOR CONSTRUCTION

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PLAN SCALE 1:250 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT
Built NSW GOVERNMENT

PROJECT
WEE WAA HIGH SCHOOL
SSD

PREPARED BY
Warren Smith Consulting Engineers
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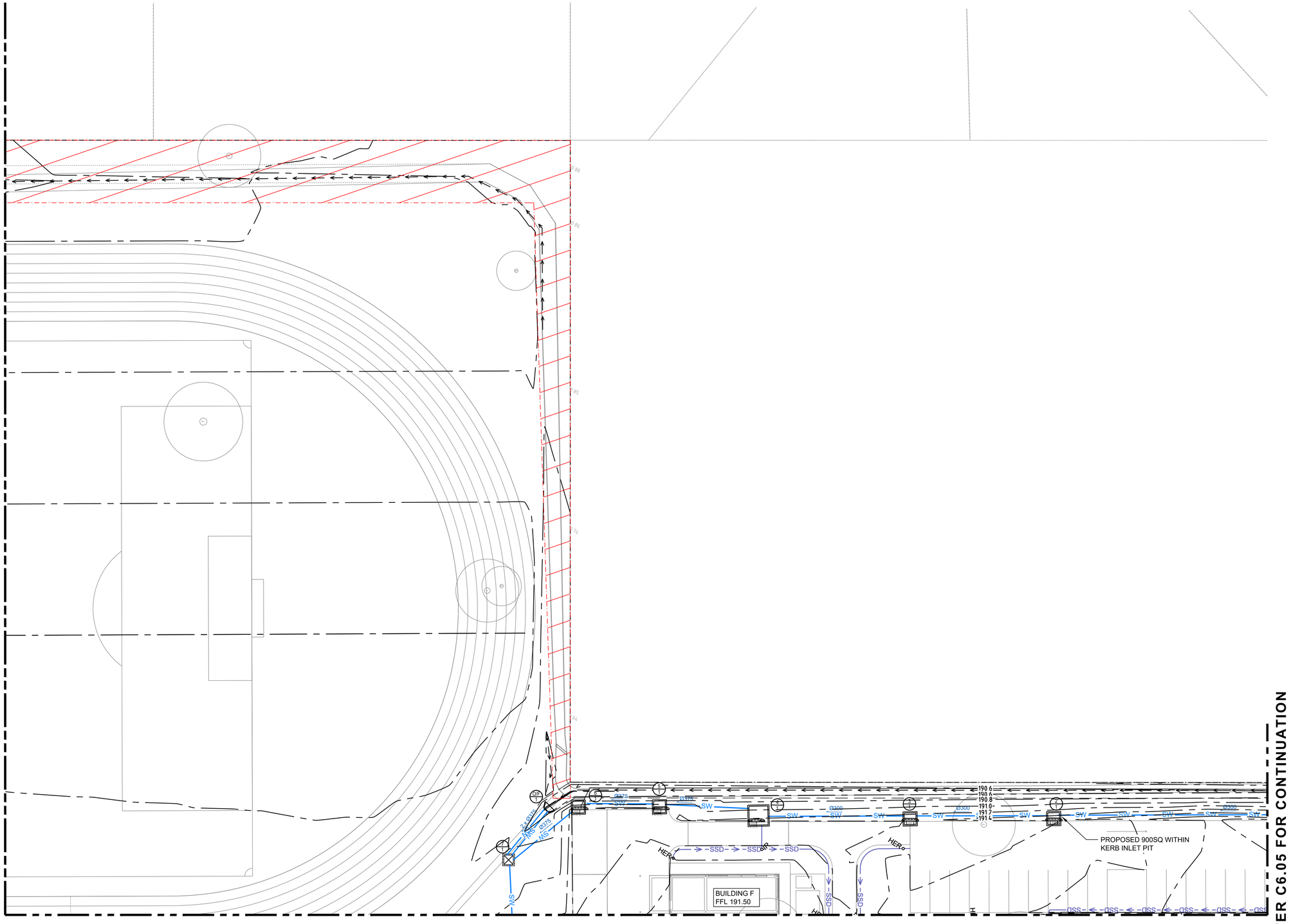
TITLE
STORMWATER LAYOUT PLAN - SHEET 1

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.01	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

Xrefs: X:7490000-TB_A1H, X:7490000-SU-Ground, X:7490000-SU-GDY, X:7490000-SW_Layout, X:7490000-AR-Ground, X:7490000-SU-Utilities, X:7490000-SW, Subsoil: 7490000-WSCE-CS-MD-007-Design Surface_Bus Bay, X:7490000-SW_Layout (REF) ; 7490000-WSCE-CS-MD-006-Design Surface_BS
Cad File: \\DD01\WSP-LOCAL\Drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 3D\Issue for Review\C6.01 Stormwater Layout Plan.dwg
Plot Date: 22/06/2022@12:00:28 Login Name: NGupta



LEGEND

- BOUNDARY
- INDICATIVE OVERLAND FLOW ROUTE
- EXISTING STORMWATER PIPE
- PIPE DIAMETER AND DIRECTION OF FLOW
- STORMWATER PIPE (SIZE <Ø1050)
- GRATED INLET PIT
- KERB INLET PIT (AT SAG)
- KERB INLET PIT (ON GRADE)
- JUNCTION PIT
- CONCRETE HEADWALL
- PIT STRUCTURE NUMBER / STORMWATER LINE NUMBER
- RL91.86 — FINISHED SURFACE LEVEL
- GRL91.86 — FINISHED STORMWATER PIT LID/GRATE LEVEL
- 2.5% — GRADE ARROW
- SSD — SUBSOIL DRAINAGE LINE
- SWALE FLOW ARROW
- SHADED REGION DENOTES STRUCTURE ELEVATED ABOVE THE FINISHED GROUND LEVEL

NOTES

1. MINOR SYSTEMS, CONSISTING OF PITS AND PIPE HAVE BEEN DESIGNED TO CAPTURE AND ATTENUATE STORMWATER RUNOFF TO PROPOSED FLOODWAY CHANNEL FOR ALL EVENTS UP TO 5% AEP.
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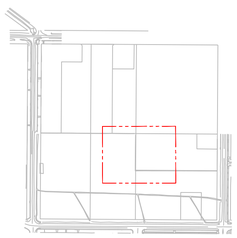
6. LOCATION AND SIZE OF RAINWATER TANK TO THE HYDRAULIC ENGINEERS DETAILS. INFORMATION TO BE CONFIRMED AND COORDINATED.



KEY PLAN
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PLAN SCALE 1:250 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY

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GCC ISO 9001 Certified

TITLE: **STORMWATER LAYOUT PLAN - SHEET 2**

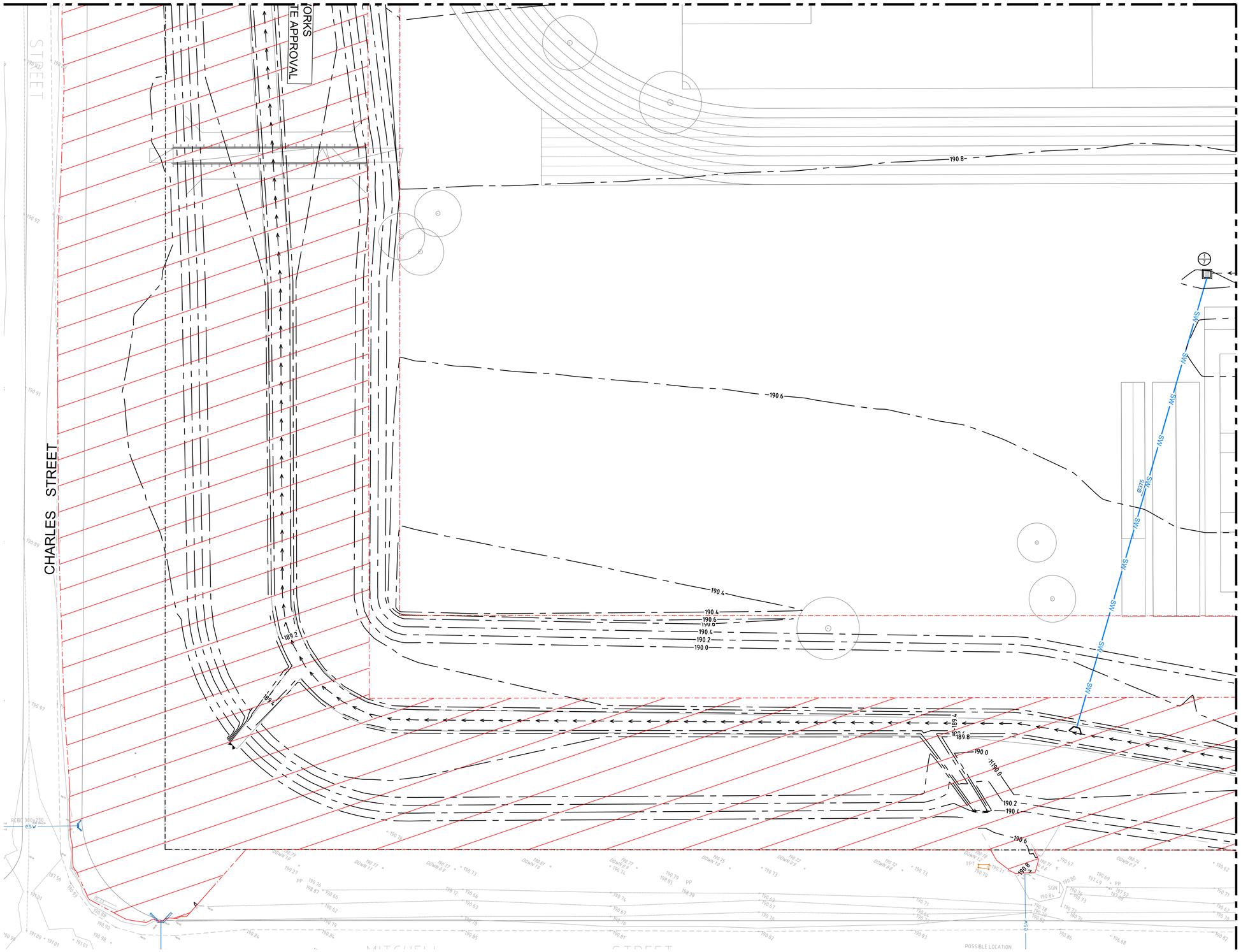
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.02	1

DATE: MARCH 2022
STATUS: ISSUED FOR REVIEW

Xref: X:7490000-TB_A1H; X:7490000-SU-Ground; X:7490000-SU-MTP; X:7490000-SW_Layout; X:7490000-SU-Ground; X:7490000-SU-Utilities; X:7490000-SW_Subsoil; 7490000-WSCE-CS-MO-007-Design Surface_Bus Bay; X:7490000-SW_Layout (REF) ; 7490000-WSCE-CS-MO-006-Design Surface_BS
Plot Date: 22.06.2022@12:00:53 Login Name: NGupta Cad File: \\ICC01-WSP-LOCAL\Drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2\Issue for Review\C6.01 Stormwater Layout Plan.dwg

REFER C6.01 FOR CONTINUATION



REFER C6.04 FOR CONTINUATION

LEGEND

- BOUNDARY
- INDICATIVE OVERLAND FLOW ROUTE
- EXISTING STORMWATER PIPE
- PIPE DIAMETER AND DIRECTION OF FLOW
- STORMWATER PIPE (SIZE <Ø1050)
- GRATED INLET PIT
- KERB INLET PIT (AT SAG)
- KERB INLET PIT (ON GRADE)
- JUNCTION PIT
- CONCRETE HEADWALL
- PIT STRUCTURE NUMBER / STORMWATER LINE NUMBER
- FINISHED SURFACE LEVEL
- FINISHED STORMWATER PIT LID/GRATE LEVEL
- GRADE ARROW
- SUBSOIL DRAINAGE LINE
- SWALE FLOW ARROW
- SHADED REGION DENOTES STRUCTURE ELEVATED ABOVE THE FINISHED GROUND LEVEL

NOTES

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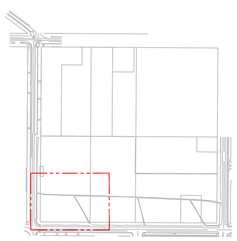

KEY PLAN
SCALE NTS

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PLAN SCALE 1:250 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY
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GCC ISO 9001 Certified

TITLE: **STORMWATER LAYOUT PLAN - SHEET 3**

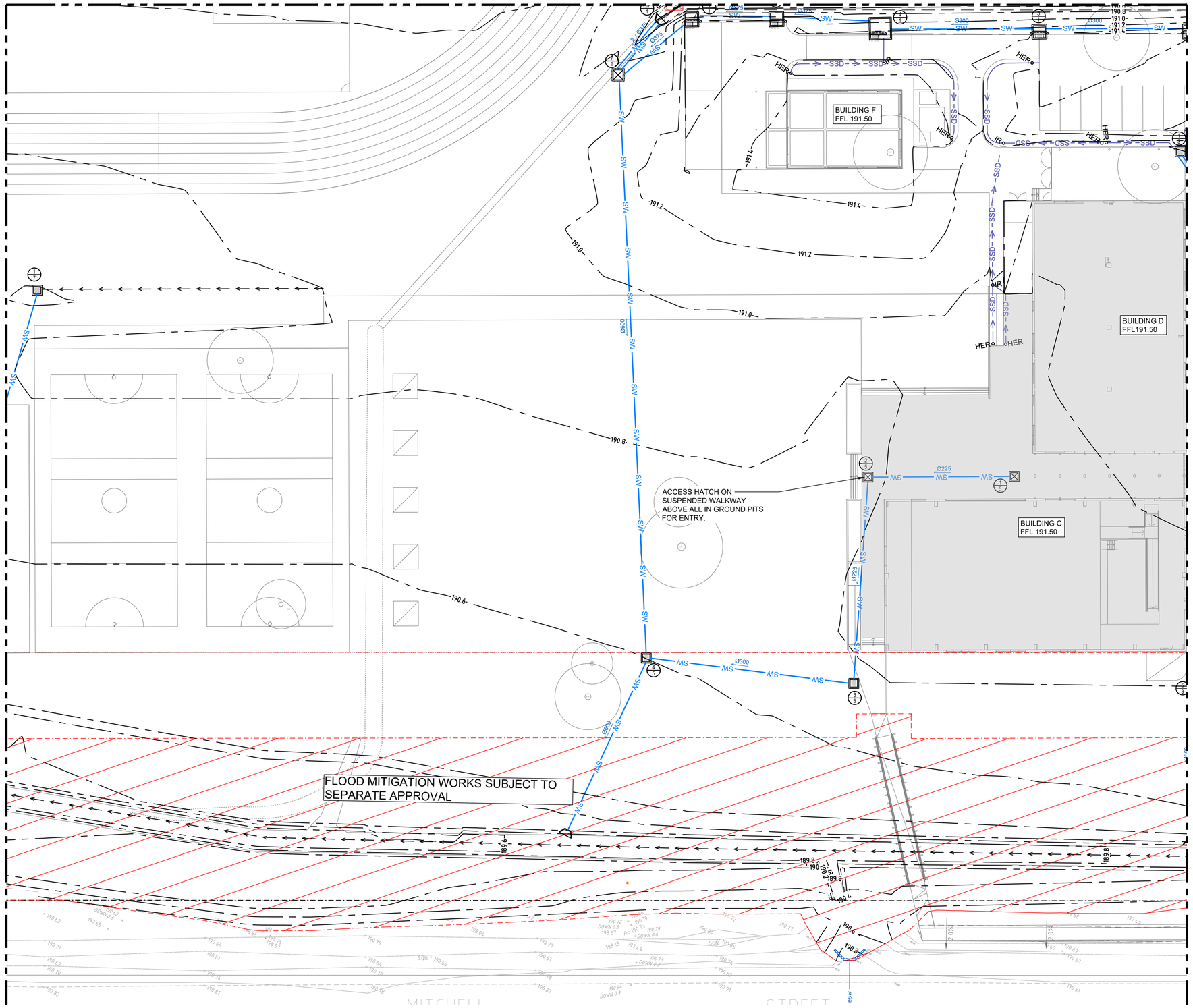
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.03	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

Xrefs: X:7490000-TB_ATH; X:7490000-SU-Council; X:7490000-SU-BDY; X:7490000-SW_Layout; X:7490000-AR-Council; X:7490000-SU-Utilities; X:7490000-SW_Subsoil; 7490000-VISCE-CS-MD-007-Design Surface_Bus Bay; X:7490000-SW_Layout (REF); 7490000-VISCE-CS-MD-006-Design Surface_EIS
Plot Date: 22.06.2022@12:01:25 Login Name: NGupta Cad File: \\DC01-WSP-LOCAL\Drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C6.01 Stormwater Layout Plan.dwg

REFER C6.02 FOR CONTINUATION



LEGEND

- BOUNDARY
- INDICATIVE OVERLAND FLOW ROUTE
- EXISTING STORMWATER PIPE
- PIPE DIAMETER AND DIRECTION OF FLOW
- STORMWATER PIPE (SIZE <Ø1050)
- GRATED INLET PIT
- KERB INLET PIT (AT SAG)
- KERB INLET PIT (ON GRADE)
- JUNCTION PIT
- CONCRETE HEADWALL
- PIT STRUCTURE NUMBER / STORMWATER LINE NUMBER
- FINISHED SURFACE LEVEL
- FINISHED STORMWATER PIT LID/GRATE LEVEL
- GRADE ARROW
- SUBSOIL DRAINAGE LINE
- SWALE FLOW ARROW
- SHADED REGION DENOTES STRUCTURE ELEVATED ABOVE THE FINISHED GROUND LEVEL

NOTES

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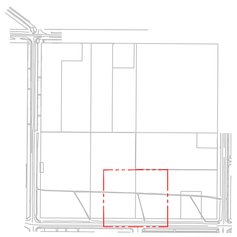

KEY PLAN
SCALE NTS

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PLAN SCALE 1:250 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY

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Hydraulic Fire Civil Utilities Infrastructure

TITLE: **STORMWATER LAYOUT PLAN - SHEET 4**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.04	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

Xrefs: X:7490000-TB_A1H, X:7490000-SU-Ground, X:7490000-SU-Utilities, X:7490000-SW_Layout, X:7490000-AR-Ground, X:7490000-SW_Subsoil, 7490000-WSCE-CS-MD-007-Design Surface_Bus Bay, X:7490000-SW_Layout (REF) ; 7490000-WSCE-CS-MD-006-Design Surface_SIS
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Plot Date: 22.06.2022@12:01:55 Login Name: NGuptta

REFER INSET

REFER C6.04 FOR CONTINUATION

PROPOSED 900SQ WITHIN KERB INLET PIT

PROPOSED 900SQ WITHIN KERB INLET PIT

BUILDING D FFL191.50

BUILDING E FFL = 192.00

BUILDING A FFL 191.50

BUILDING B FFL 191.50

BUILDING B FFL191.50

RAINWATER TANK TO BE CLEAR OF STORMWATER PIPES

STRUCTURE TO ALLOW FOR OVERLAND FLOW UNDER BUILDING.

ACCESS HATCH ON SUSPENDED WALKWAY REQUIRED ABOVE ALL IN GROUND PITS FOR ENTRY.

DEMOLISH EXISTING HEADWALL AND CONSTRUCT NEW STORM WATER PIT (900 X 600 GRATE WITH 2400 SQ CHAMBER) OVER EXISTING DUAL 900W X 300H BOX CULVERTS.

BOX CULVERT WITHIN TRAFFICABLE AREA TO MANUFACTURER SPECIFICATIONS.

CONSTRUCT NEW HEADWALL AND DISCHARGE TO PROPOSED SWALE

2 x RCBC 900 x 300

TOW 191.18 BOW 190.73

TOW 191.15 BOW 190.74

GEORGE STREET

GEORGE STREET

KAMILAROI HIGHWAY

PRELIMINARY - NOT FOR CONSTRUCTION

LEGEND

- BOUNDARY
- INDICATIVE OVERLAND FLOW ROUTE
- esw — EXISTING STORMWATER PIPE
- Ø450 — PIPE DIAMETER AND DIRECTION OF FLOW
- SW — STORMWATER PIPE (SIZE <Ø1050)
- GRATED INLET PIT
- KERB INLET PIT (AT SAG)
- KERB INLET PIT (ON GRADE)
- JUNCTION PIT
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- PIT STRUCTURE NUMBER / STORMWATER LINE NUMBER
- RL 91.86 — FINISHED SURFACE LEVEL
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- SSD — SUBSOIL DRAINAGE LINE
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- SHADED REGION DENOTES STRUCTURE ELEVATED ABOVE THE FINISHED GROUND LEVEL

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KEY PLAN

SCALE NTS

INSET

SCALE 1:250

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PLAN SCALE 1:250 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

CLIENT

Built

NSW GOVERNMENT

PROJECT

WEE WAA HIGH SCHOOL SSD

PREPARED BY

Warren Smith Consulting Engineers

WARREN SMITH CONSULTING ENGINEERS

SINCE 1981.

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ACN 002 197 088 ABN 36 300 430 126

Hydraulic Fire Civil Utilities Infrastructure

GCC ISO 9001 Certified

TITLE

STORMWATER LAYOUT PLAN - SHEET 5

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.05	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

A1

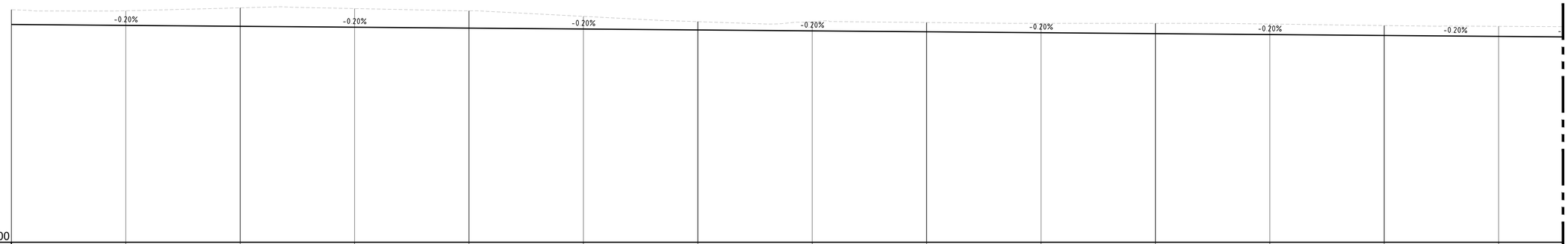
Xrefs: X:7490000-TB_A1H, X:7490000-SU-Ground, X:7490000-SU-UBDY, X:7490000-SW_Layout, X:7490000-AR-Ground, X:7490000-SU-Utilities, X:7490000-SW, Subsoil, 7490000-NRSCE-CS-MD-007-Design Surface_Bus Bay, X:7490000-SW_Layout (REF), 7490000-NRSCE-CS-MD-006-Design Surface_EIS

Plot Date: 22/06/2022@12:15:08 Login Name: NGupta Cad File: \\DC01\WSP-LOCAL\Drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 3D\Issue for Review\03.01 Stormwater Layout Plan.dwg

LEGEND

———	SSD WORKS SURFACE
- - - -	EXISTING SURFACE
2.5%	GRADE

REFER BELOW FOR CONTINUATION



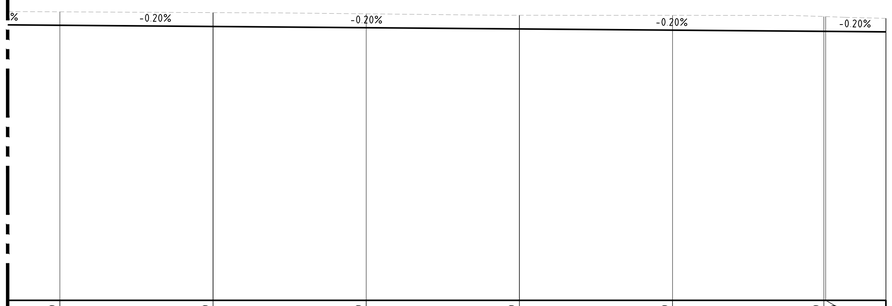
DATUM 186.00

DESIGN LEVEL	190.749	190.729	190.709	190.689	190.669	190.649	190.629	190.609	190.589	190.569	190.549	190.529	190.509	190.489
EXISTING LEVEL	191.071	191.048	191.111	191.096	191.046	190.926	190.810	190.810	190.792	190.773	190.773	190.758	190.726	190.708
DEPTH	-0.322	-0.319	-0.402	-0.406	-0.377	-0.276	-0.181	-0.200	-0.203	-0.204	-0.224	-0.229	-0.216	-0.219
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000

STORMWATER CHANNEL 3 LONGITUDINAL SECTION

SCALE - HORIZONTAL 1:200 VERTICAL 1:100

REFER ABOVE FOR CONTINUATION



DESIGN LEVEL	190.489	190.469	190.449	190.429	190.409	190.389	190.389	190.381
EXISTING LEVEL	190.708	190.695	190.676	190.652	190.651	190.632	190.631	190.602
DEPTH	-0.219	-0.226	-0.227	-0.223	-0.242	-0.243	-0.242	-0.220
CHAINAGE	130.000	140.000	150.000	160.000	170.000	179.878	180.000	183.933

STORMWATER CHANNEL 3 LONGITUDINAL SECTION

SCALE - HORIZONTAL 1:200 VERTICAL 1:100

DATUM 186.00

DESIGN LEVEL	190.221	190.215	190.211	190.207	190.203	190.202	190.199	190.195	190.193	190.183	190.180	190.176	190.172	190.170	190.162	190.142	190.122	190.115
EXISTING LEVEL	190.399	190.402	190.458	190.560	190.566	190.568	190.574	190.582	190.586	190.619	190.627	190.632	190.631	190.630	190.607	190.664	190.587	190.562
DEPTH	-0.178	-0.187	-0.247	-0.353	-0.363	-0.366	-0.375	-0.387	-0.393	-0.436	-0.447	-0.457	-0.459	-0.460	-0.444	-0.521	-0.464	-0.447
CHAINAGE	0.000	3.411	5.403	7.394	9.386	10.000	11.378	13.369	14.533	20.000	21.360	23.353	25.347	26.259	30.000	40.000	50.000	53.597

STORMWATER CHANNEL 2 LONGITUDINAL SECTION

SCALE - HORIZONTAL 1:200 VERTICAL 1:100

PRELIMINARY - NOT FOR CONSTRUCTION

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2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY
Warren Smith Consulting Engineers
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ACN 002 197 088 ABN 36 300 430 126
Hydraulic Fire Civil Utilities Infrastructure
ISO 9001 Certified

TITLE: **STORMWATER CHANNEL 2 & 3 LONGITUDINAL SECTION**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.11	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 SHEET SIZE: A1

Xrefs: X-7490000-TB_A1H; 7490000-WSCE-CS-MD-006-Design Surface; BSF: 7490000-WSCE-CS-MD-006-Design Surface; ESS: with LDNGSECTION
Plot Date: 22.06.2022@11:13:21 Login Name: NGupta Cad File : DC0:\WSP.LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2\Issue for Review\C6.11 Stormwater Channel Longitudinal Sections.dwg

LEGEND

———	SSD WORKS SURFACE
- - - -	EXISTING SURFACE

DESIGN LEVEL		190.594	190.162	190.571	
EXISTING LEVEL	190.618	190.609	190.607	190.604	190.586
OFFSET	-5.000	-2.438	0.000	2.381	5.000

CHAINAGE 30.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.583	190.183	190.552	
EXISTING LEVEL	190.678	190.651	190.619	190.598	190.583
OFFSET	-5.000	-2.445	0.000	2.141	5.000

CHAINAGE 20.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.529	190.202	190.515	
EXISTING LEVEL	190.606	190.575	190.568	190.561	190.554
OFFSET	-5.000	-2.033	0.000	2.130	5.000

CHAINAGE 10.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL	190.140	190.137	190.122	190.535	
EXISTING LEVEL	190.613	190.617	190.587	190.554	190.520
OFFSET	-5.000	-4.316	0.000	2.396	5.000

CHAINAGE 50.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.496	190.221	190.301
EXISTING LEVEL	190.651	190.507	190.399	190.348
OFFSET	-5.000	-1.916	0.000	1.270

CHAINAGE 0.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

DESIGN LEVEL		190.648	190.142	190.589	
EXISTING LEVEL	190.722	190.695	190.664	190.635	190.606
OFFSET	-5.000	-2.684	0.000	2.508	5.000

CHAINAGE 40.00

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

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PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT

Built NSW GOVERNMENT

PROJECT

WEE WAA HIGH SCHOOL
SSD

PREPARED BY

Warren Smith Consulting Engineers

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SINCE 1981.

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www.warrensmith.com.au
ACN 002 197 088 ABN 36 300 430 126

Hydraulic Fire Civil Utilities Infrastructure

GCC ISO 9001 Certified

TITLE

STORMWATER CHANNEL 2
CH00.00 TO CH50.00

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.21	1

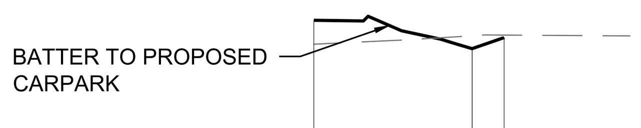
DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
SHEET SIZE: A1

Xrefs: X-7490000-TB, AN1-7490000-HNSCS-CS-M0-006-Design Surface, ESS with LONGSECTION, X-7490000-AR-Ground
Plot Date: 22/06/2022@11:13:46 Login Name: NGupta Cad File: \\DD31\WSP-LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C6.21 Stormwater Channel Cross Sections.dwg

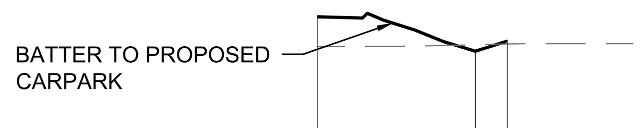
LEGEND

———	SSD WORKS SURFACE
- - - -	EXISTING SURFACE



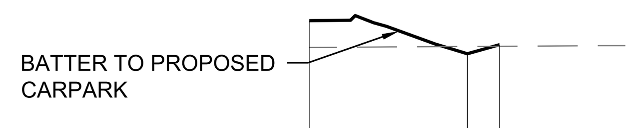
DESIGN LEVEL	191.584	190.689	191.041	
EXISTING LEVEL	190.829	191.096	191.117	191.092
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 30.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



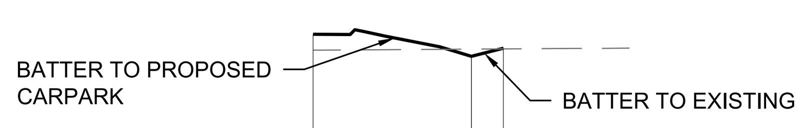
DESIGN LEVEL	191.693	190.609	190.915	
EXISTING LEVEL	190.753	190.810	190.836	190.848
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 70.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



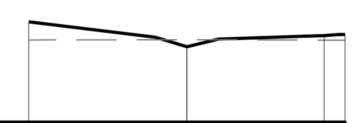
DESIGN LEVEL	191.571	190.529	190.806	
EXISTING LEVEL	190.727	190.758	190.764	190.783
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 110.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



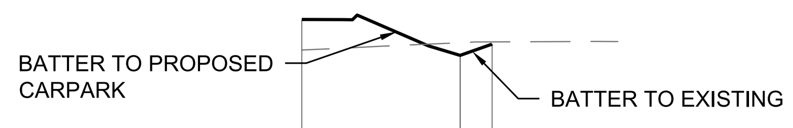
DESIGN LEVEL	191.140	190.449	190.696	
EXISTING LEVEL	190.641	190.676	190.682	190.705
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 150.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



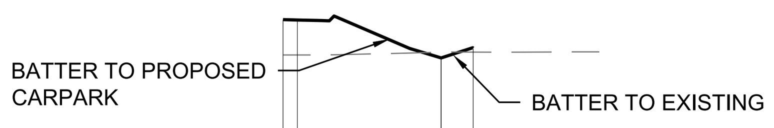
DESIGN LEVEL	191.166	190.381	190.732	190.770
EXISTING LEVEL	190.594	190.602	190.589	190.586
OFFSET	-5.000	0.000	4.337	5.000

CHAINAGE 183.93
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



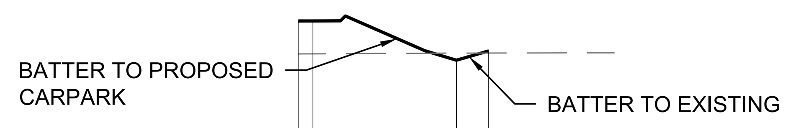
DESIGN LEVEL	191.843	190.709	191.068	
EXISTING LEVEL	190.878	191.111	191.136	191.146
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 20.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



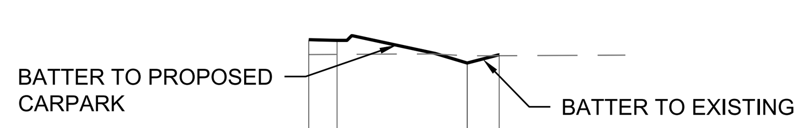
DESIGN LEVEL	191.839	191.828	190.629	190.938	
EXISTING LEVEL	190.721	190.723	190.810	190.815	190.821
OFFSET	-5.000	-4.544	0.000	1.013	5.000

CHAINAGE 60.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



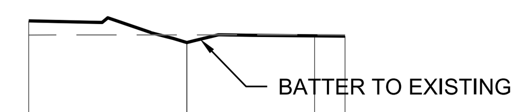
DESIGN LEVEL	191.791	191.789	190.549	190.832	
EXISTING LEVEL	190.749	190.752	190.773	190.775	190.783
OFFSET	-5.000	-4.538	0.000	1.013	5.000

CHAINAGE 100.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



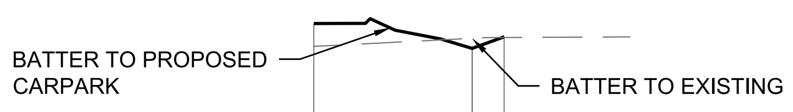
DESIGN LEVEL	191.205	191.186	190.469	190.723	
EXISTING LEVEL	190.736	190.741	190.695	190.700	190.719
OFFSET	-5.000	-4.110	0.000	1.013	5.000

CHAINAGE 140.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



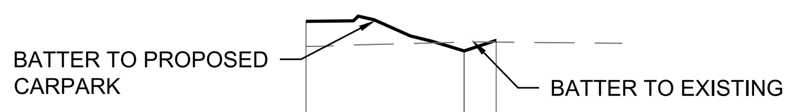
DESIGN LEVEL	191.074	190.389	190.601	190.593
EXISTING LEVEL	190.625	190.631	190.632	190.631
OFFSET	-5.000	0.000	4.038	5.000

CHAINAGE 180.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



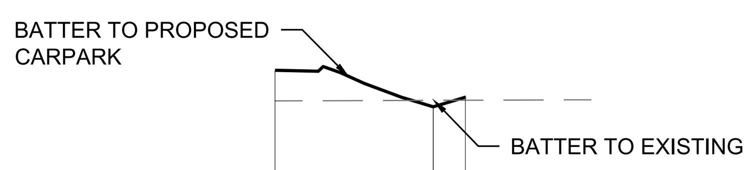
DESIGN LEVEL	191.516	190.729	191.089	
EXISTING LEVEL	190.793	191.048	191.074	191.092
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 10.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



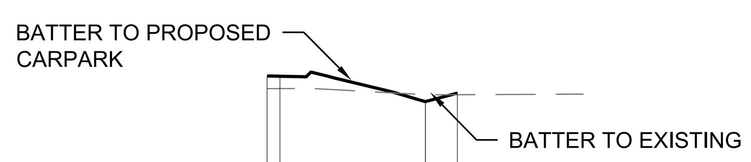
DESIGN LEVEL	191.585	190.649	190.973	
EXISTING LEVEL	190.792	190.926	190.928	190.889
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 50.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



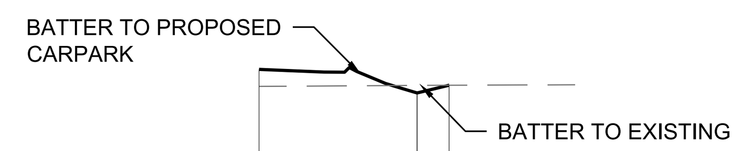
DESIGN LEVEL	191.719	190.569	190.858	
EXISTING LEVEL	190.753	190.773	190.775	190.789
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 90.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



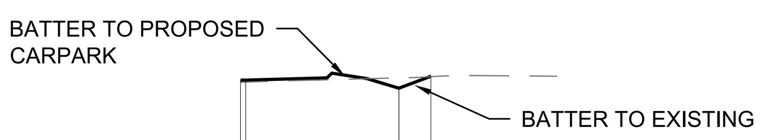
DESIGN LEVEL	191.305	191.296	190.489	190.750	
EXISTING LEVEL	190.902	190.904	190.708	190.710	190.727
OFFSET	-5.000	-4.597	0.000	1.013	5.000

CHAINAGE 130.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



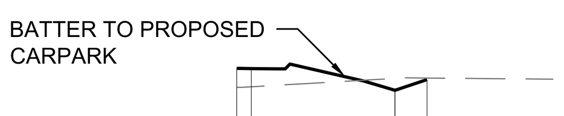
DESIGN LEVEL	191.155	190.409	190.654	
EXISTING LEVEL	190.618	190.651	190.655	190.669
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 170.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



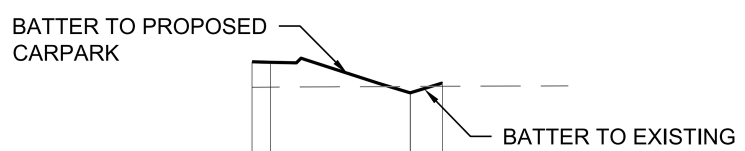
DESIGN LEVEL	191.003	191.003	190.749	191.118	
EXISTING LEVEL	190.932	190.937	191.071	191.111	191.124
OFFSET	-5.000	-4.836	0.000	1.013	5.000

CHAINAGE 00.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



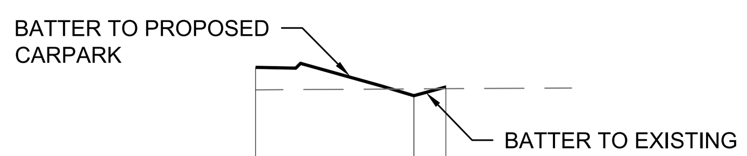
DESIGN LEVEL	191.367	191.359	190.669	191.010	
EXISTING LEVEL	190.763	190.783	191.046	191.060	191.022
OFFSET	-5.000	-4.539	0.000	1.013	5.000

CHAINAGE 40.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



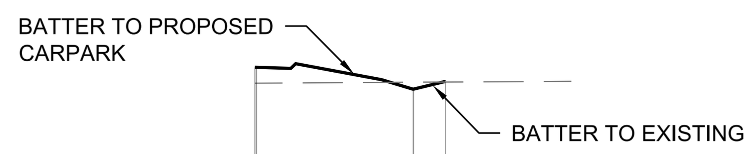
DESIGN LEVEL	191.572	191.556	190.589	190.885	
EXISTING LEVEL	190.766	190.770	190.792	190.796	190.810
OFFSET	-5.000	-4.411	0.000	1.013	5.000

CHAINAGE 90.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



DESIGN LEVEL	191.405	190.509	190.777	
EXISTING LEVEL	190.693	190.726	190.731	190.752
OFFSET	-5.000	0.000	1.013	5.000

CHAINAGE 120.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200



DESIGN LEVEL	191.120	191.119	190.429	190.669	
EXISTING LEVEL	190.618	190.619	190.652	190.656	190.678
OFFSET	-5.000	-4.959	0.000	1.013	5.000

CHAINAGE 160.00
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:200

PRELIMINARY - NOT FOR CONSTRUCTION

Xrefs: X-7490000-TB_A1H; 749000-WSCE-CS-MO-006-Design Surface_EIS with LONGSECTION; X-7490000-AR-Ground
Plot Date: 22.06.2022@11:14:00 Login Name: NGupta Cad File: \\DC01.WSP.LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C6.21 Stormwater Channel Cross Sections.dwg

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2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUED FOR REVIEW	22/06/22			

CLIENT: Built / NSW GOVERNMENT

PROJECT: WEE WAA HIGH SCHOOL SSD

PREPARED BY
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Hydraulic Fire Civil Utilities Infrastructure
GCC ISO 9001 Certified

TITLE: **STORMWATER CHANNEL 3 CH00.00 TO CH183.93**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	R.X.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.22	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 SHEET SIZE: A1

Name	Surface Elev. (m)	Pit Depth (m)	Pit Size and Type	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Pipe Type	Dia (mm)	No. Pipes
Pit 1/1	191.52	0.67	1500 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 1/1	Pit 2/1	38.95	190.85	190.65	0.51	RCP	300	1
Pit 2/1	191.39	0.77	1500 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 2/1	Pit 3/1	16.72	190.62	190.53	0.54	RCP	300	1
Pit 3/1	191.21	0.71	1500 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 3/1	Pit 4/1	18.93	190.50	190.40	0.53	RCP	375	1
Pit 4/1	191.10	0.73	2000 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 4/1	Pit 5/1	10.31	190.37	190.31	0.58	RCP	375	1
Pit 5/1	191.06	0.78	1500 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 5/1	Pit 6/1	8.5	190.28	190.23	0.59	RCP	375	1
Pit 6/1	191.01	0.81	1500 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 6/1	Pit 7/1	9.70	190.20	190.15	0.52	RCP	375	1
Pit 7/1	191.05	0.93	1200 SQ PIT WITH CLASS B COVER	Pit 7/1	Pit 4/5	69.50	190.12	189.77	0.50	RCP	600	1
Pit 1/2	191.05	0.69	900 SQ PIT WITH CLASS B COVER	Pit 1/2	Pit 2/2	22.5	190.36	190.24	0.53	RCP	300	1
Pit 2/2	191.03	0.82	900 SQ PIT WITH CLASS B COVER	Pit 2/2	Pit 3/2	24.3	190.212	190.09	0.50	RCP	375	1
Pit 3/2	190.8	0.74	900 SQ PIT WITH CLASS B GRATE	Pit 3/2	HEADWALL	19.8	190.06	189.96	0.51	RCP	375	1
Pit 1/3	191.01	0.55	900 SQ PIT WITH CLASS B GRATE	Pit 1/3	Pit 2/3	30.5	190.462	190.31	0.50	uPVC	225	2
Pit 2/3	190.95	0.67	900 SQ PIT WITH CLASS B GRATE	Pit 2/3	Pit 3/3	13.2	190.276	190.21	0.50	uPVC	225	2
Pit 3/3	191.09	0.91	900 SQ PIT WITH CLASS B COVER	Pit 3/3	Pit 4/3	13.3	190.182	190.11	0.54	RCP	525	1
Pit 4/3	191.01	0.93	900 SQ PIT WITH CLASS B COVER	Pit 4/3	Pit 5/3	23.8	190.079	189.96	0.50	RCP	525	1
Pit 5/3	190.87	0.94	900 SQ PIT WITH CLASS B GRATE	Pit 5/3	HEADWALL	18.2	189.925	189.83	0.52	RCP	600	1
Pit 1/4	191.33	0.58	900 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit 1/4	HEADWALL	3.3	190.75	190.69	1.82	uPVC	225	1
Pit 1/5	190.93	0.77	900 SQ PIT WITH CLASS B COVER	Pit 1/5	Pit 2/5	16.8	190.16	190.07	0.54	uPVC	225	1
Pit 2/5	190.81	0.77	900 SQ PIT WITH CLASS B COVER	Pit 2/5	Pit 3/5	24.1	190.04	189.92	0.50	uPVC	225	1
Pit 3/5	190.74	0.85	900 SQ PIT WITH CLASS B GRATE	Pit 3/5	Pit 4/5	24.4	189.89	189.77	0.49	RCP	300	1
Pit 4/5	190.70	0.96	900 SQ PIT WITH CLASS B GRATE	Pit 4/5	HEADWALL	19.3	189.74	189.62	0.62	RCP	600	1
Pit 1/6	190.95	0.51	900 SQ PIT WITH CLASS B GRATE	Pit 1/6	Pit 2/3	16.14	190.443	190.37	0.45	uPVC	225	2
Pit 1/7	190.44	0.70	900 SQ PIT WITH CLASS B GRATE	Pit 1/7	HEADWALL	60	189.739	189.44	0.50	RCP	375	1
Pit 1/8	191.08	0.75	1200SQ WITH CLASS B GRATE	Pit 1/8	Pit 2/2	15.2	190.33	190.25	0.53	RCP	375	1
Pit 1/8	191.08	0.75	1200SQ WITH CLASS B GRATE	Pit 1/8	Pit 3/3	16.4	190.33	190.22	0.67	RCP	375	1
Pit OF/1	190.90	0.60	HEADWALL	Pit OF/1	Pit 7/1	7.2	190.3	190.15	2.08	RCP	375	2
Pit EX/1	190.92	0.50	2400 SQ PIT WITH 450 X 900 CLASS D GRATE WITH 1.8m LINTEL OPENING	Pit EX/1	HEADWALL	9.71	190.42	190.22	2.06	RCP	900 X 300 (BOX CULVERT}	2

PRELIMINARY - NOT FOR CONSTRUCTION

DO NOT SCALE FROM DRAWINGS, CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR REVIEW	22/06/22			

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PROJECT: WEE WAA HIGH SCHOOL SSD

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ISO 9001 Certified

TITLE: STROMWATER PIT SCHEDULE

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	N.G.	N.G.	J.G.	--

JOB No.	DRAWING No.	ISSUE
7490000	C6.31	1

DATE	STATUS
MARCH 2022	ISSUED FOR REVIEW

SHEET SIZE: A1

Cad File: \\DC01.WSP.LOCAL\drawings\7490000\Drawings\AutoCAD\Civil\Design\Civil 2D\Issue for Review\C6.31 Stormwater Pit Schedule.dwg
Xref(s): X:7490000-TB_A1H
Plot Date: 22.06.2022@11:19:10 Login Name: NGupta