

Certificate

Construction Compliance

DATE 21/01/2022
TO Richard Crookes Constructions Pty Ltd
ATTENTION PCA
PROJECT Upgrade to Chatswood Public School – Stage 3
RE Stage 3 – Building V – Car Park Sports Court

I, Bryan King
of SCP Consulting Pty Ltd
at Level 2, 507 Kent Street, Sydney NSW 2000

Hereby certify that:

- 1 I am a practicing structural engineer certified under NER.
- 2 I am the holder of documentary evidence from Engineers Australia to that effect.
- 3 I am currently practicing as a Structural Engineer with SCP Consulting Pty Ltd, of which I am a Director.
- 4 I have carried out, or have caused to have carried out, periodic inspections of the structural work during the construction. SCP Consulting did not act in a supervisory capacity and could only observe the status of the work at the time of the inspection.
- 5 In accordance with DA Condition D10a, I am satisfied that the structural works inspected for the above project have been constructed in accordance with the intent of the structural engineering drawings and written engineering instructions issued up to the time of the inspections.

- 6 In accordance with DA Condition D10b, the drawings listed have been checked with those listed on the final Design Certificate. The structural engineering drawings referred to in this certificate are:

DRAWING #	TITLE	REVISION
PS-STR-V-DW-0000	TITLE SHEET	2
PS-STR-V-DW-0010	LOADING PLANS	2
PS-STR-A-DW-0301	FOOTING PLAN	3
PS-STR-V-DW-0305	FOOTING DETAILS SHEET 1	4
PS-STR-V-DW-0306	FOOTING DETAILS SHEET 2	3
PS-STR-V-DW-0307	FOOTING DETAILS SHEET 3	3
PS-STR-V-DW-0308	FOOTING DETAILS SHEET 4	3
PS-STR-V-DW-0309	FOOTING DETAILS SHEET 5	1
PS-STR-V-DW-0401	COLUMN SCHEDULE SHEET 1	2
PS-STR-V-DW-0901	LOWER GROUND GENERAL ARRANGEMENT PLAN	6
PS-STR-V-DW-0905	SLAB ON GROUND DETAILS SHEET 1	4
PS-STR-V-DW-0910	OSD TANK PLANS	3
PS-STR-V-DW-0920	GROUND FLOOR GENERAL ARRANGEMENT PLAN	5
PS-STR-V-DW-0925	GROUND FLOOR DETAILS SHEET 1	2

- 7 In providing this Certificate, I have relied upon the following documentation supplied to me regarding the construction:
- Copies of our Engineering Inspection Reports signed off by RCC that any rectification work noted in the reports has been completed.
 - Concrete mix designs by Holcim dated 10/03/21.
 - Documents indicating the 28-day compression strengths achieved by test cylinders taken from the concrete supplied noting concrete strength matches or exceeds requirements noted on the drawings.
- 8 This certificate excludes the following elements which have been designed, constructed and certified by others:
- All piles, pile caps and OSD Shoring by ACE Civil Pty Ltd.
 - Horizontal post tensioned floor slab by Quantum, designed in accordance with SCP design information as provided on the SCP drawings and design specifications DB1 and DB2.
 - Perimeter Steel frame with tension mesh by Halina Engineers/GK BLUE
 - Waterproofing and performance of all membranes.
 - Drainage in general.
- 9 This certificate does not relieve any other party of its responsibilities, liabilities or contractual obligations.

Yours faithfully
SCP Consulting Pty Ltd

A handwritten signature in black ink, appearing to read 'B. King'.

Bryan King BEng (Struct), MIEAust CPEng NER APEC Eng IntPE(Aus)
Director

UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL CARPARK / SPORTS COURT

STRUCTURAL DRAWING LIST

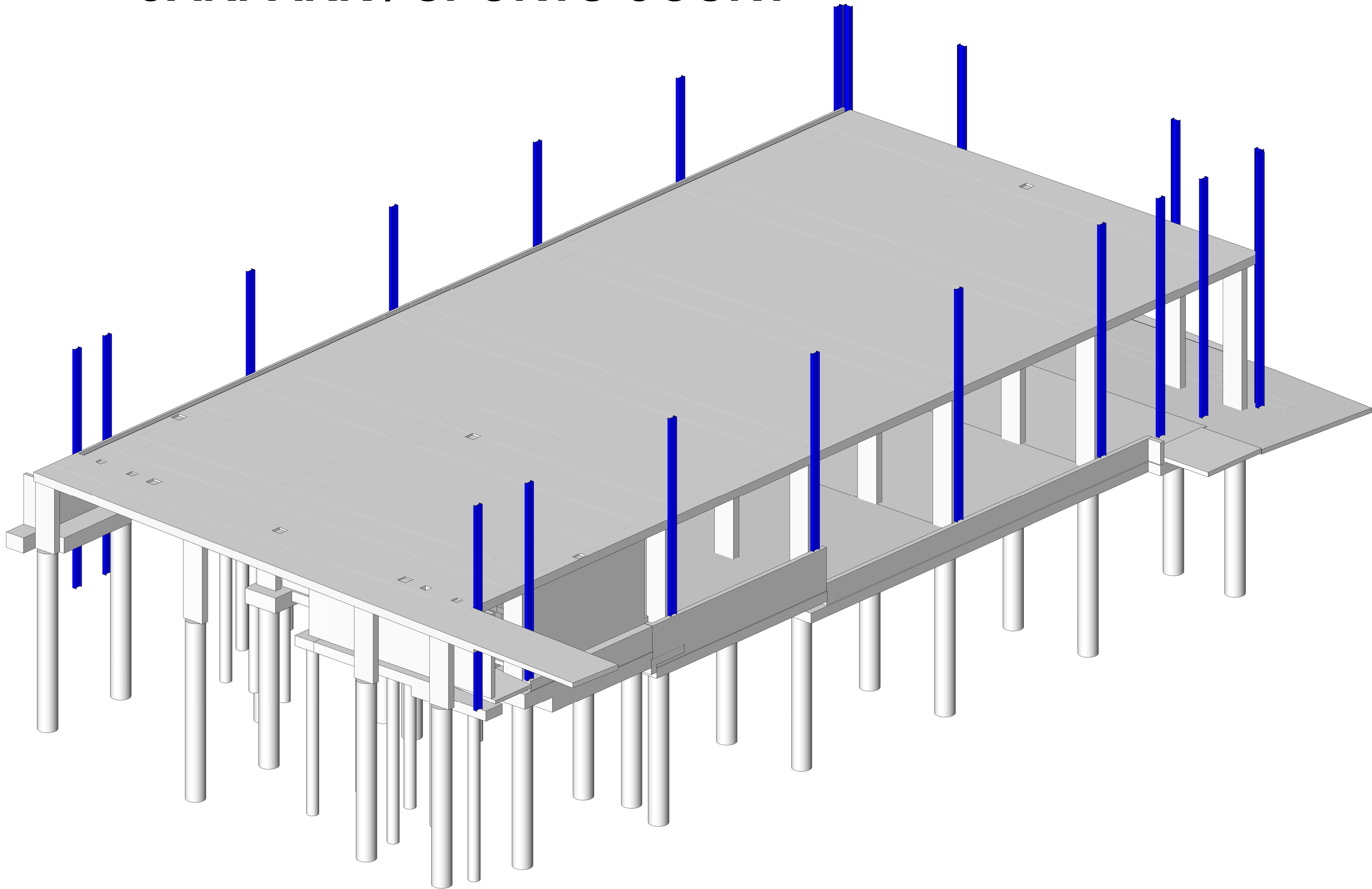
DRAWING No. DRAWING TITLE

Series 00 - General	
PS-STR-V-DW-0000	TITLE SHEET
PS-STR-V-DW-0010	LOADING PLANS
Series 03 - Footings	
PS-STR-V-DW-0301	FOOTING PLAN
PS-STR-V-DW-0305	FOOTING DETAILS SHEET 1
PS-STR-V-DW-0306	FOOTING DETAILS SHEET 2
PS-STR-V-DW-0307	FOOTING DETAILS SHEET 3
PS-STR-V-DW-0308	FOOTING DETAILS SHEET 4
PS-STR-V-DW-0309	FOOTING DETAILS SHEET 5
Series 04 - Columns	
PS-STR-V-DW-0401	COLUMN SCHEDULE SHEET 1
Series 09 - General Arrangement Plans	
PS-STR-V-DW-0901	LOWER GROUND GENERAL ARRANGEMENT PLAN
PS-STR-V-DW-0905	SLAB ON GROUND DETAILS SHEET 1
PS-STR-V-DW-0910	OSD TANK PLANS
PS-STR-V-DW-0920	GROUND FLOOR GENERAL ARRANGEMENT PLAN
PS-STR-V-DW-0925	GROUND FLOOR DETAILS SHEET 1

SITE WIDE STRUCTURAL DRAWING LIST

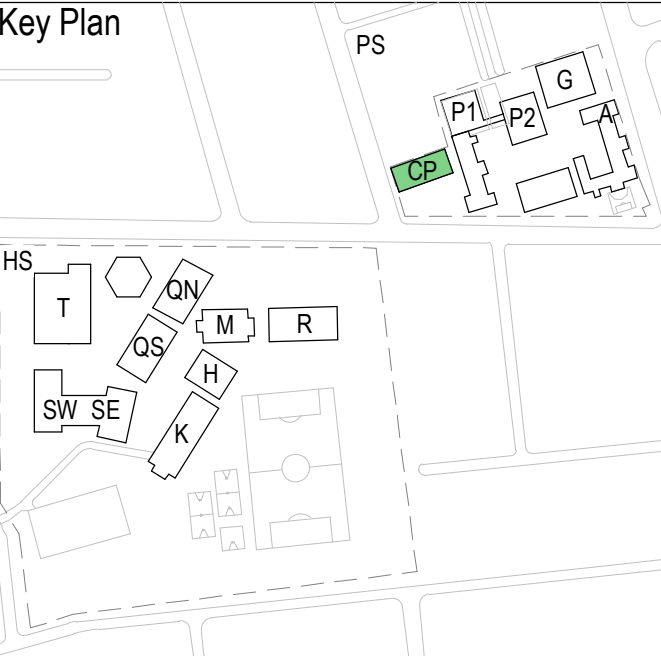
DRAWING No. DRAWING TITLE

Series 00 - General	
X-STR-W-DW-0001	GENERAL NOTES SHEET 1
X-STR-W-DW-0002	GENERAL NOTES SHEET 2
Series 04 - Columns	
X-STR-W-DW-0450	COLUMN DETAILS SHEET 1
X-STR-W-DW-0451	COLUMN DETAILS SHEET 2
Series 05 - Walls (Reinforced)	
X-STR-W-DW-0550	TYPICAL WALL DETAILS SHEET 1
X-STR-W-DW-0551	TYPICAL WALL DETAILS SHEET 2
X-STR-W-DW-0552	TYPICAL WALL DETAILS SHEET 3
X-STR-W-DW-0555	DINCEL WALL DETAILS
Series 07 - Walls (Masonry)	
X-STR-W-DW-0701	MASONRY WALL DETAILS SHEET 1
X-STR-W-DW-0702	MASONRY WALL DETAILS SHEET 2



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Key Plan

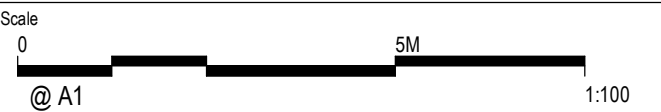


Rev	Revision Description	Date
2	ISSUED FOR CONSTRUCTION	30.11.21
1	ISSUED FOR CONSTRUCTION	02.09.21
E	ISSUED FOR INFORMATION	12.08.21
D	CONSTRUCTION CERTIFICATE 2 ISSUE	30.07.21
C	CONSTRUCTION CERTIFICATE ISSUE	19.02.21
B	MAIN WORKS 80% DD ISSUE	10.12.20
A	80% DD COORDINATION ISSUE	06.11.20

Client	
School	
School	
Contractor	
Project Manager	
13 Darroch House 507 Kent St Sydney NSW 2000 ABN 80 003 076 024	
T (02) 9367 9312 mail@scpsconsult.com.au www.scpsconsult.com.au	

Project
UPGRADE TO CHATSWOOD
PUBLIC SCHOOL AND
CHATSWOOD HIGH SCHOOL

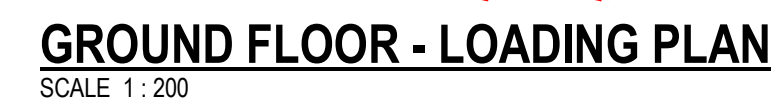
Title
BUILDING V-
TITLE SHEET



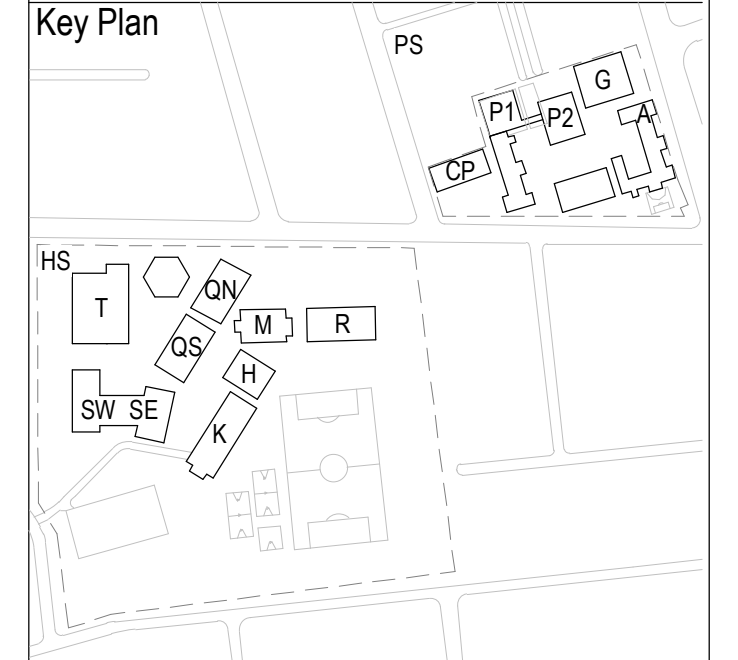
Project Number	Drawn	Checked	Approved
S201075	M.C	B.K	B.K

Drawing Number	Revision
PS-STR-V-DW-0000	2

LL - DENOTES LIVE LOAD
SDL - DENOTES SUPERIMPOSED DEAD LOAD
ALL LOADS NOTED ARE UNFACTORED
FACADE LOADS
: REFER TO ARCHITECTURAL DRAWINGS



Key Plan

[illegible]

Client



	School
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	School
--	--------



Contractor



Project Manager



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[illegible]

Project UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL

Title

BUILDING V-LOADING PLANS

Scale



Project Number S201075	Drawn W.L	Checked B.K	Approved B.K
---------------------------	--------------	----------------	-----------------

Drawing Number	Revision
PS-STR-V-DW-0010	2

M.C. 25/11/2021 8:39:47 AM



SCALE 1:20



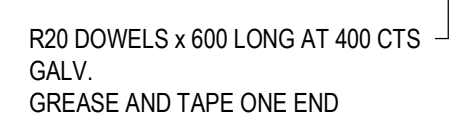
SCALE 1:20



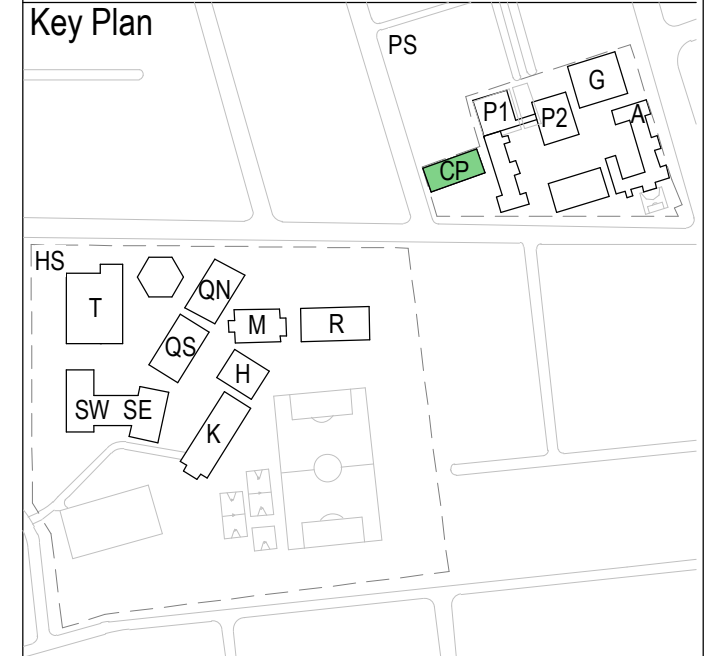
SCALE 1:20



SCALE 1:20




TYPICAL CONTROL JOINT DETAIL IN RETAINING WALL



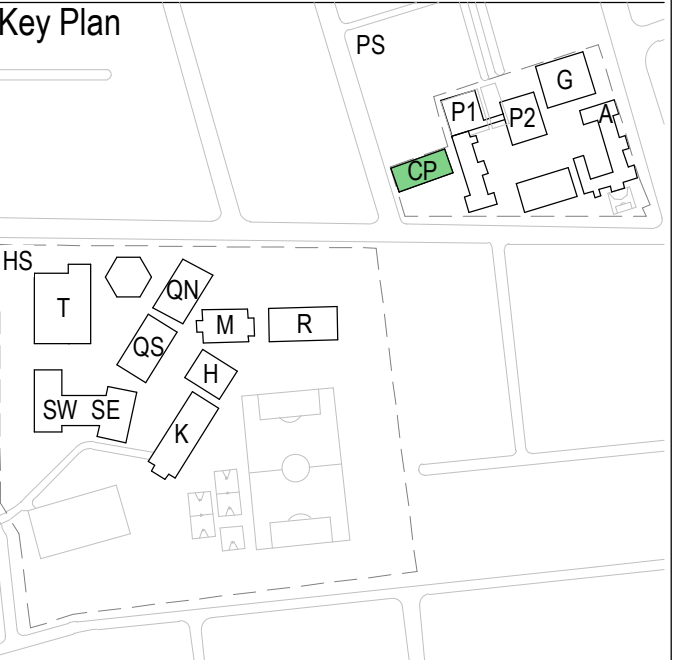
Client



Title
BUILDING V-
FOOTING DETAILS SHEET 1

 <p>Scale 0 5M 1:100</p> <p>As indicated @ A1</p>			
Project Number S201075	Drawn M.C	Checked B.K	Approved B.K
Drawing Number			Revision
PS-STR-V-DW-0305			4

Key Plan



3	ISSUED FOR CONSTRUCTION	22.10.21
2	ISSUED FOR CONSTRUCTION	29.09.21
1	ISSUED FOR CONSTRUCTION	02.09.21
E	ISSUED FOR INFORMATION	12.08.21
D	CONSTRUCTION CERTIFICATE 2 ISSUE	30.07.21
C	CONSTRUCTION CERTIFICATE ISSUE	19.02.21
B	MAIN WORKS 80% DD ISSUE	10.12.20
A	80% DD COORDINATION ISSUE	06.11.20
Rev	Revision Description	Date

Client



School



School



RICHARD CROOKES
CONSTRUCTIONS

100



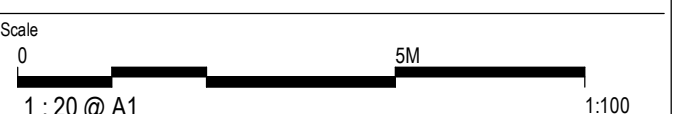
L2 Danchen House
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Project

UPGRADE TO CHATSWOOD
PUBLIC SCHOOL AND
CHATSWOOD HIGH SCHOOL

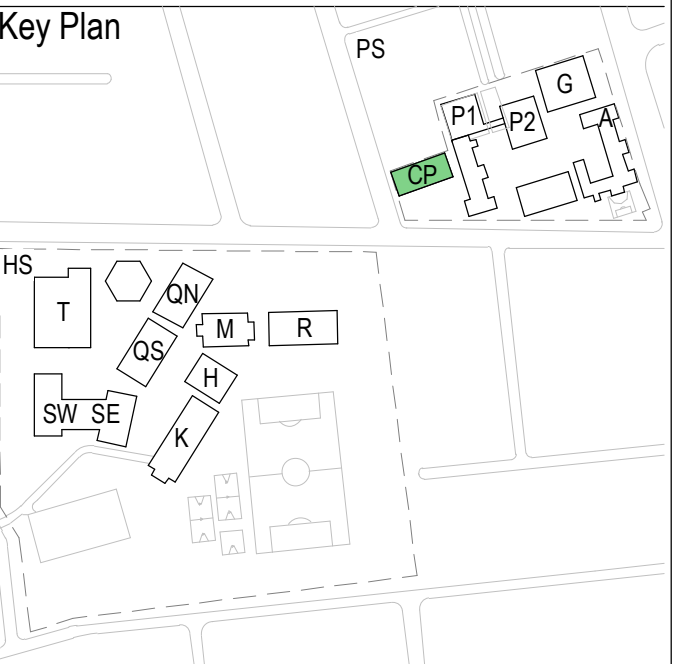
Title
BUILDING V-
FOOTING DETAILS SHEET 2



Project Number S201075	Drawn M.C	Checked B.K	Approved B.K
Drawing Number PS-STR-V-DW-0306			Revision 3

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Key Plan



Rev	Revision Description	Date
3	ISSUED FOR CONSTRUCTION	22.10.21
2	ISSUED FOR CONSTRUCTION	16.09.21
1	ISSUED FOR CONSTRUCTION	02.09.21
F	ISSUED FOR INFORMATION	12.08.21
E	CONSTRUCTION CERTIFICATE 2 ISSUE	30.07.21
D	CONSTRUCTION CERTIFICATE ISSUE	19.02.21
C	MAIN WORKS 80% DD ISSUE	10.12.20
B	80% DD COORDINATION ISSUE	13.11.20
A	80% DD COORDINATION ISSUE	06.11.20



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UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL

BUILDING V-FOOTING DETAILS SHEET 3

Scale
0 5M 1:100

1 : 20 @ A1

Project Number
S201075

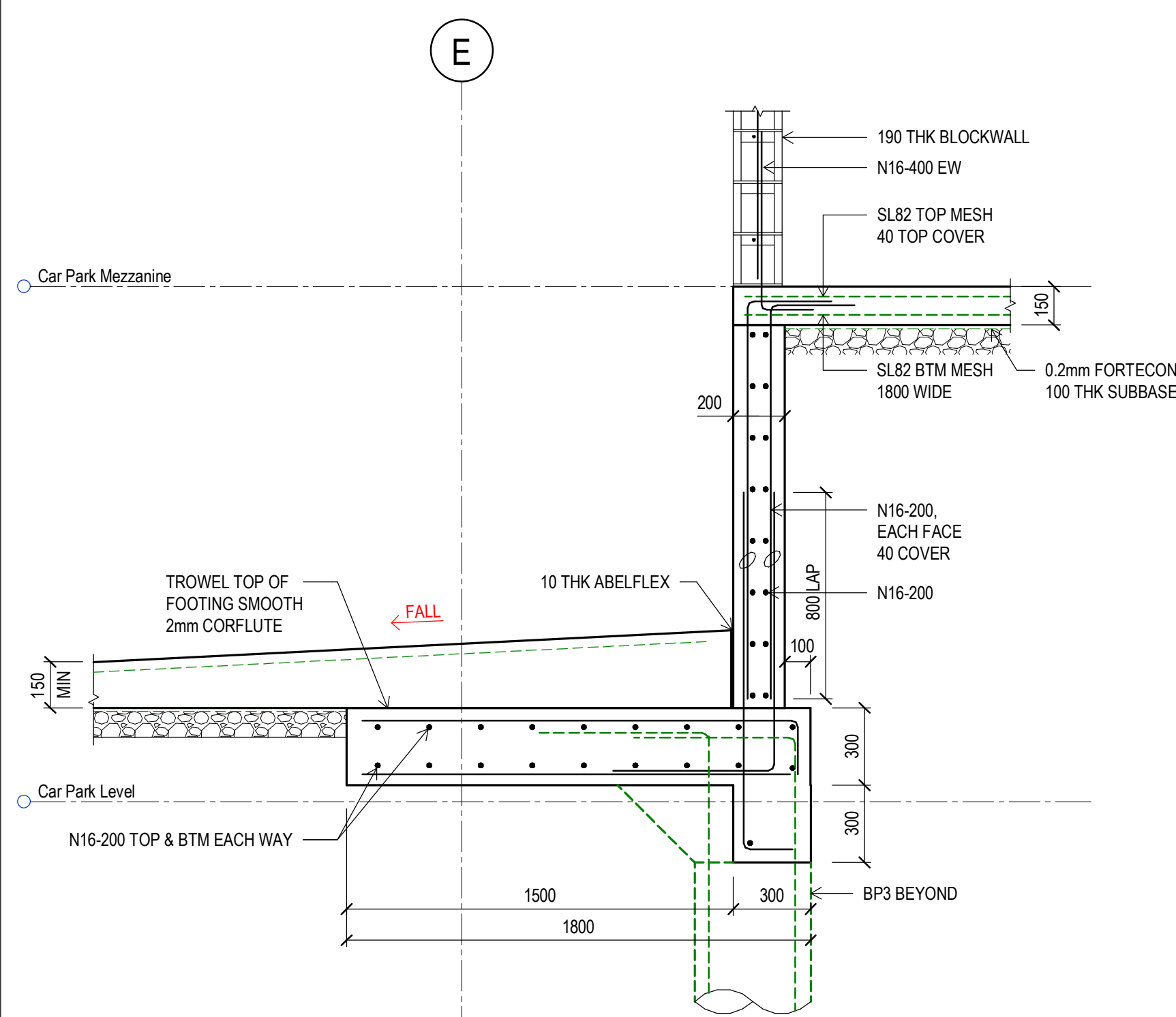
Drawn
M.C.

Checked
B.K.

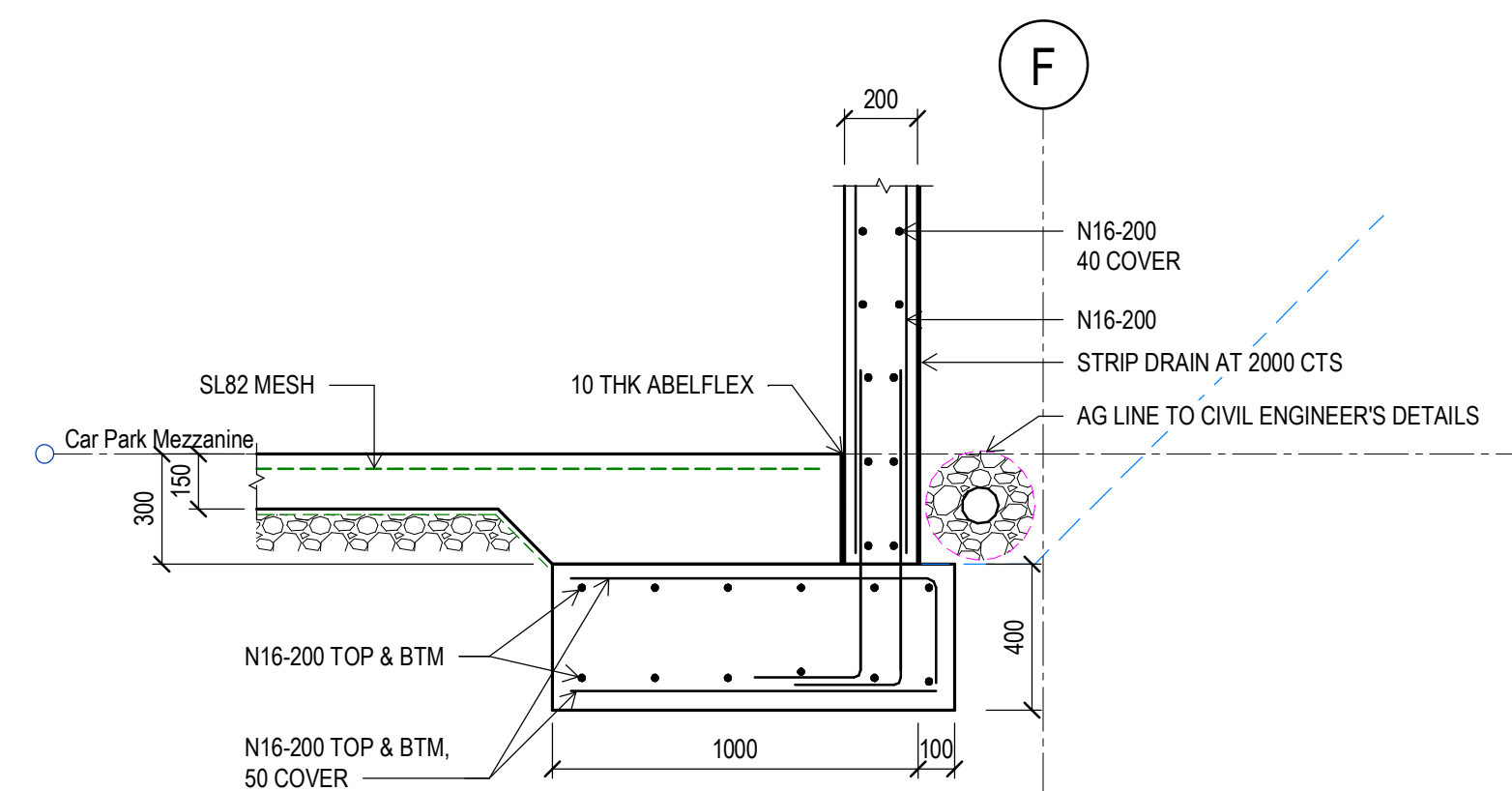
Approved
B.K.

Drawing Number
PS-STR-V-DW-0307

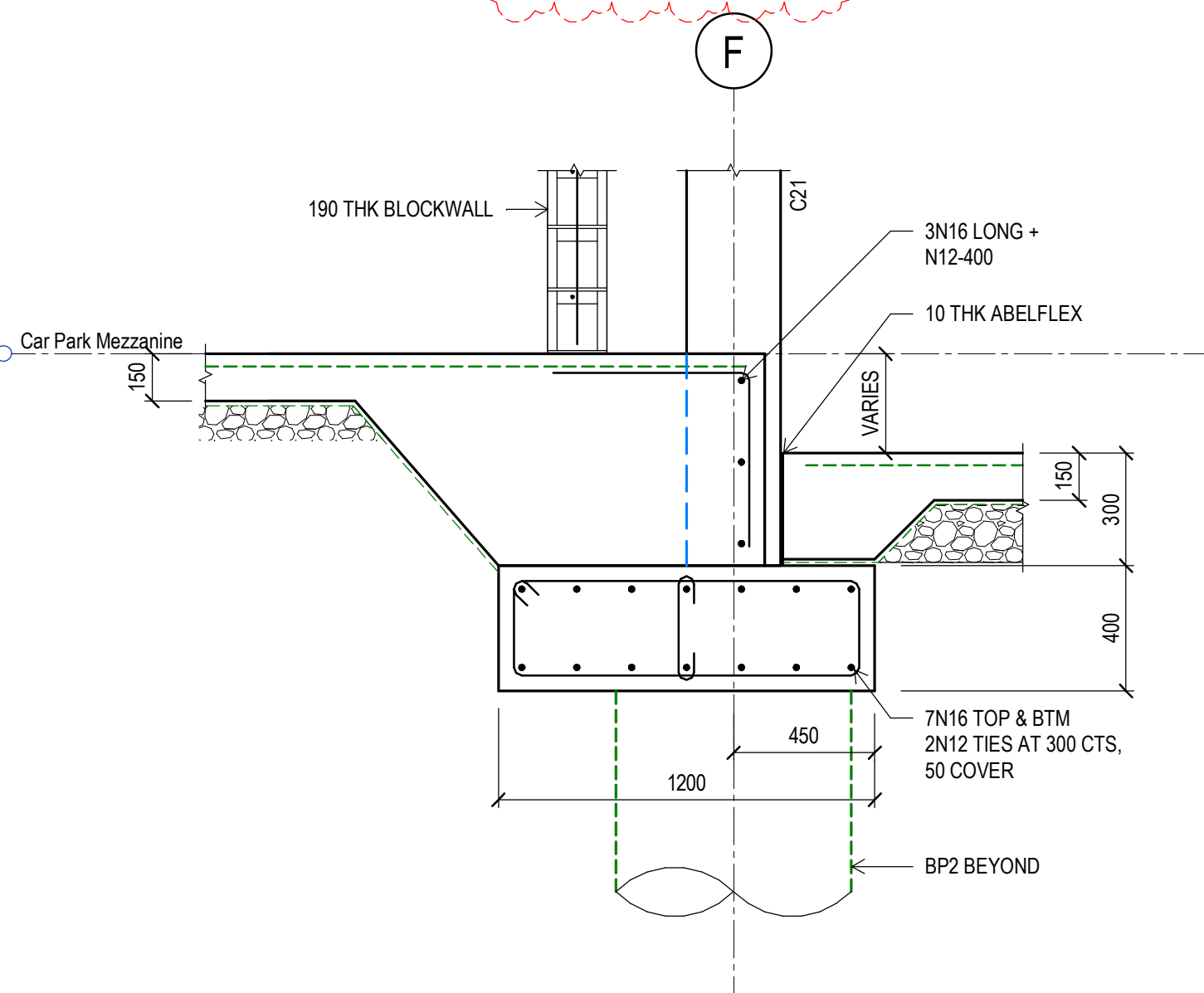
Revision
3



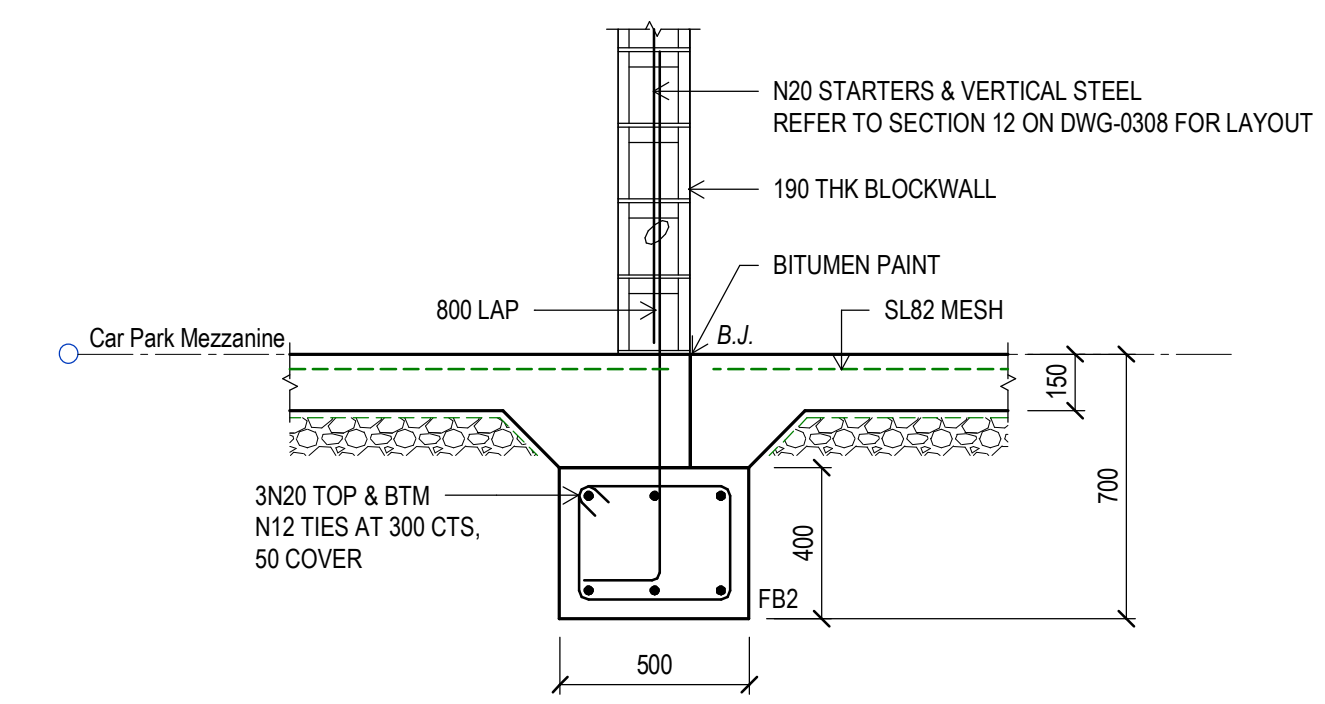
5 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



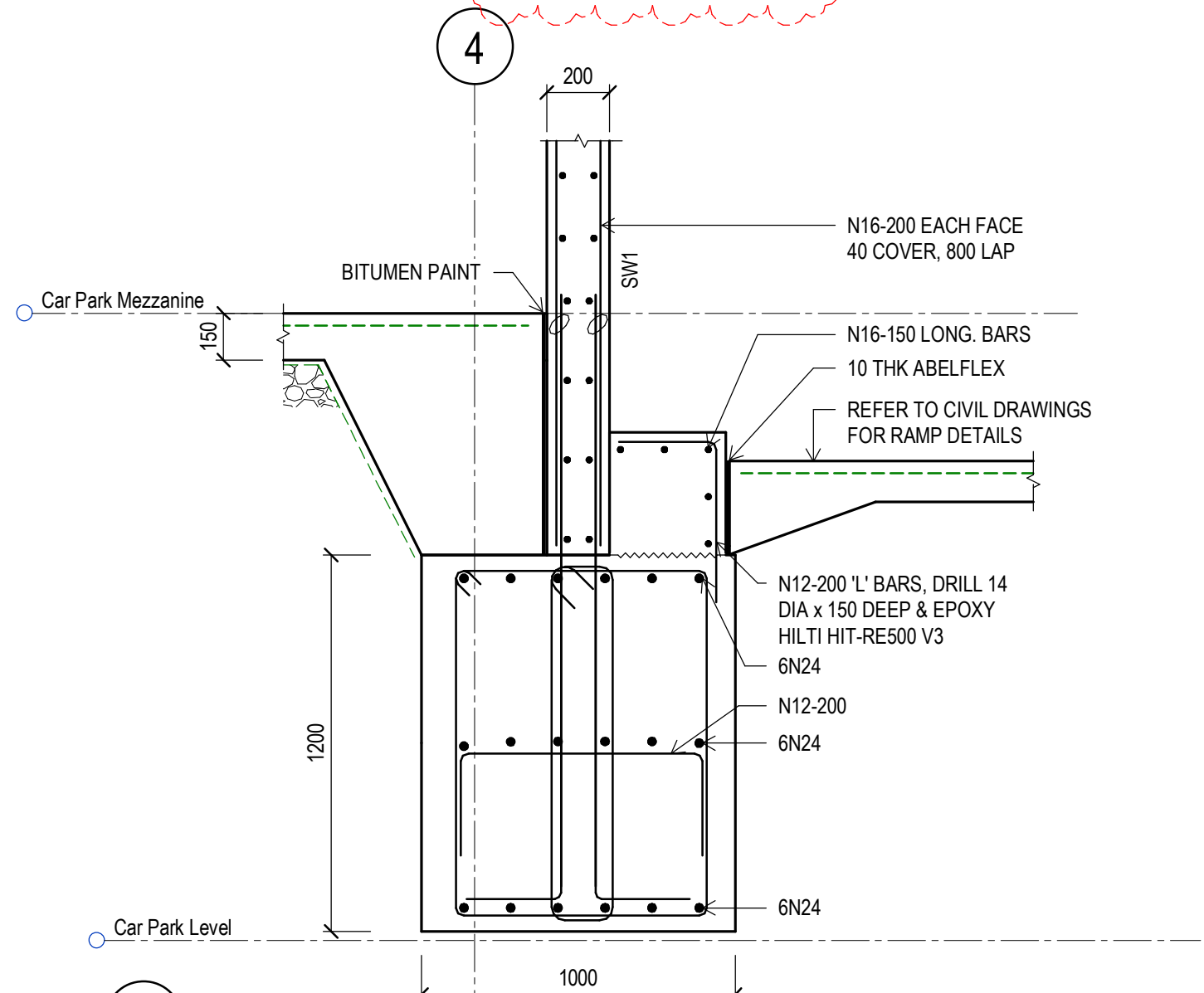
6 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



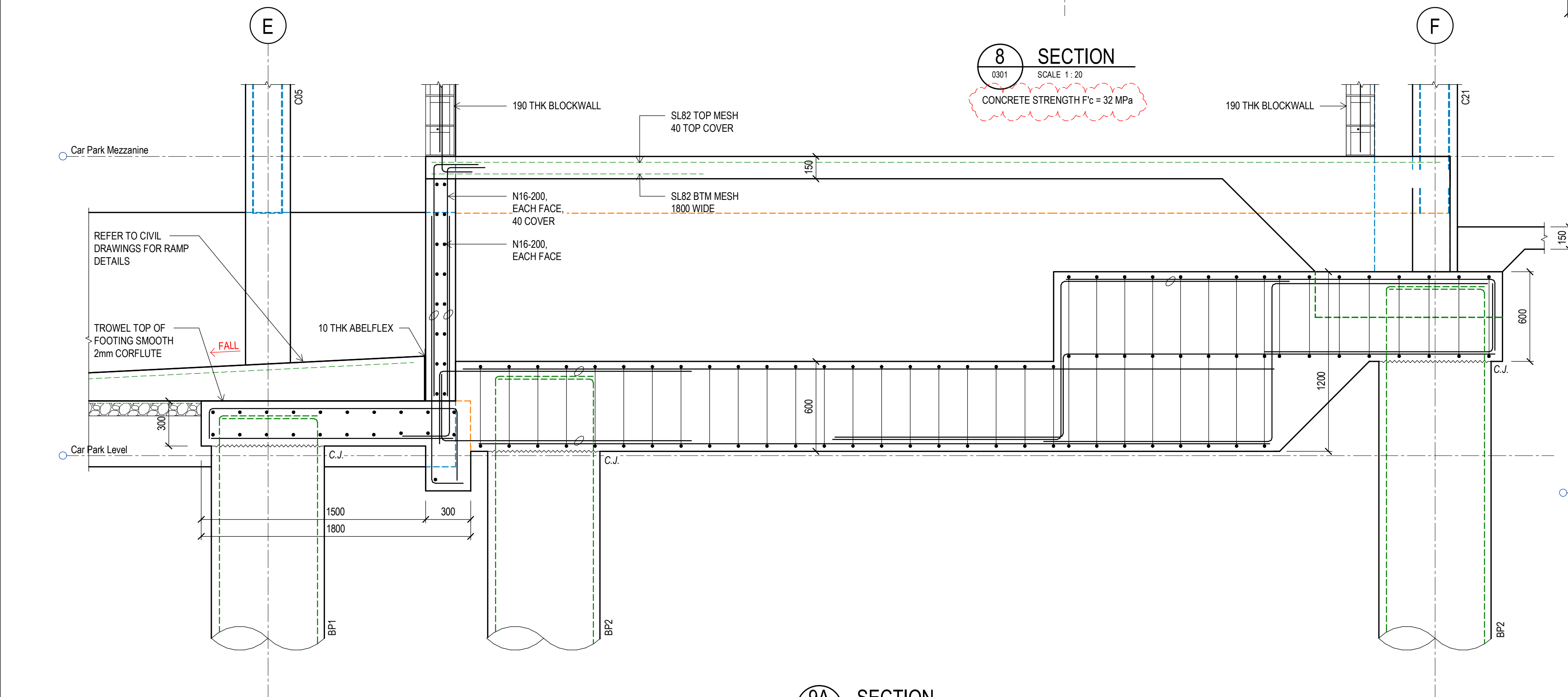
8 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



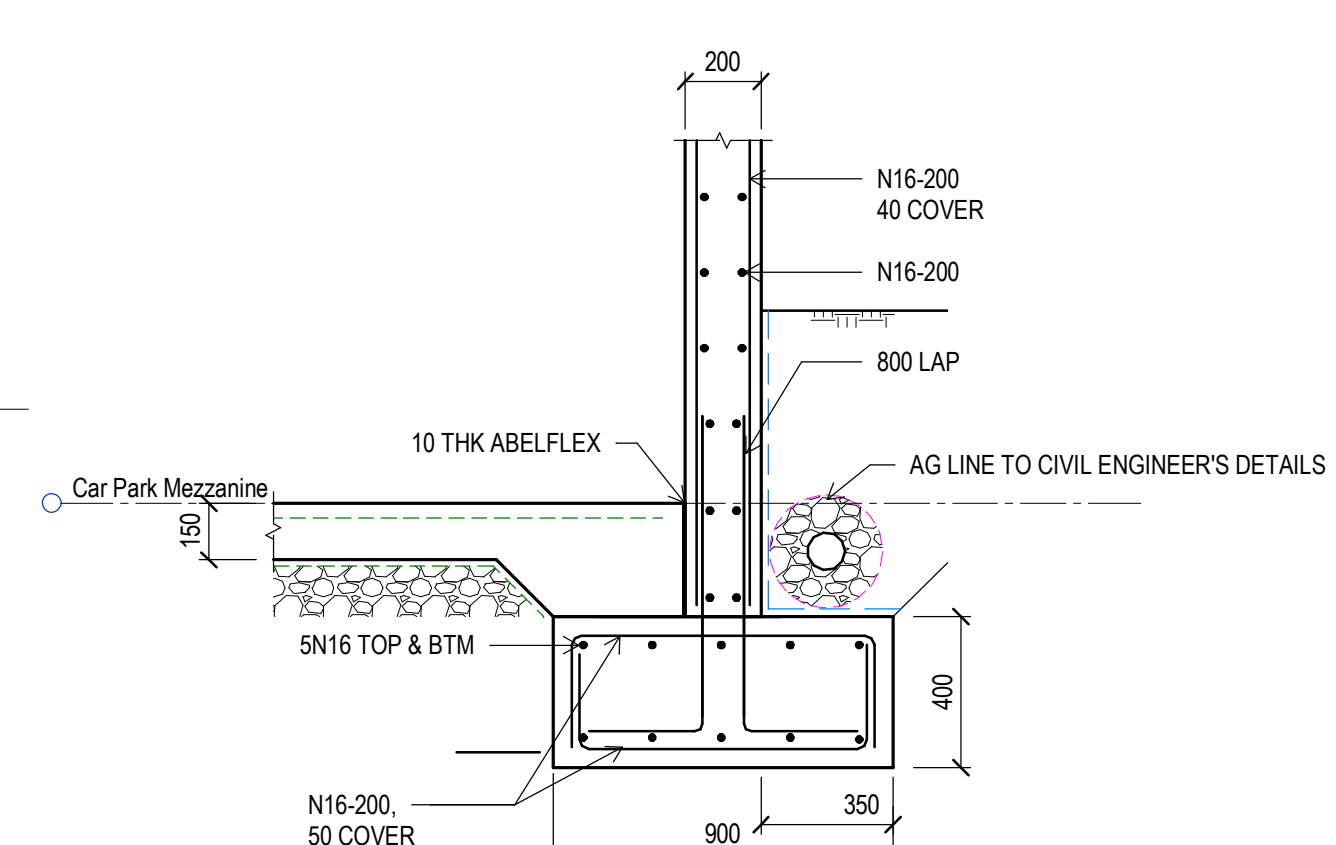
7 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



9 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



9A SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



10 SECTION
0301 SCALE 1:20
CONCRETE STRENGTH $F_c = 32 \text{ MPa}$



1	ISSUED FOR CONSTRUCTION	25.11.21
Rev	Revision Description	Date

School

The logo for Hamwood P.S. Fortiter is a blue shield-shaped crest. At the top, it says "HAMWOOD P.S." in white. The center features a shield with diagonal white and blue stripes. At the bottom, a banner reads "FORTITER" in white capital letters.

Contractor

RICHARD CROOKES

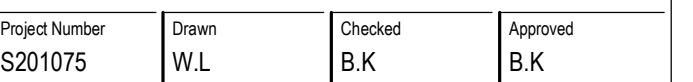
CONSTRUCTIONS

 **scp** **engineers
and development
consultants**

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Title
BUILDING V-
FOOTING DETAILS SHEET 5



Drawing Number	Revision
PS-STR-V-DW-0309	1

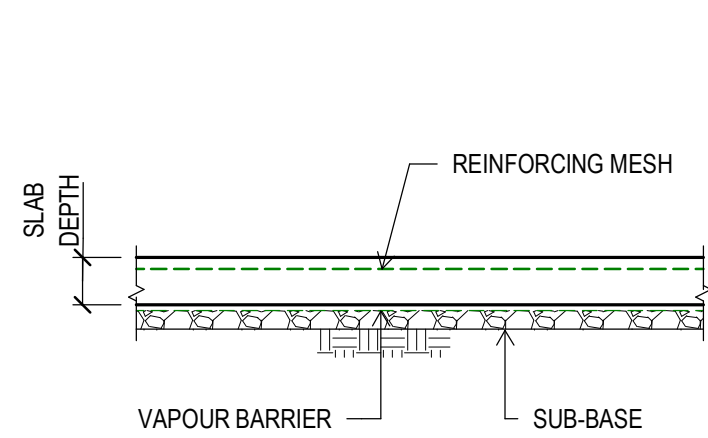
COLUMN SCHEDULE - MEZZANINE						
MARK	COLUMN SIZE	COLUMN REINFORCEMENT	COLUMN TIES	COLUMN TYPE	CONCRETE GRADE (MPa)	COMMENTS
C21	300 x 900	4N24 + 10N20	3N10-250	A	40	
C22	300 x 900	4N24 + 10N20	3N10-250	A	40	
C23	300 x 900	4N24 + 10N20	3N10-250	A	40	
C24	300 x 900	4N24 + 10N20	3N10-250	A	40	
C25	300 x 900	4N24 + 10N20	3N10-250	A	40	
C26	300 x 900	4N24 + 10N20	3N10-250	A	40	
C27	300 x 900	4N24 + 10N20	3N10-250	A	40	
C28	300 x 900	4N24 + 10N20	3N10-250	A	40	



COG SCHEDULE	
BAR	COG
N10	165
N12	170
N16	205
N20	245
N24	295
N28	345
N32	395
N36	440
N40	490

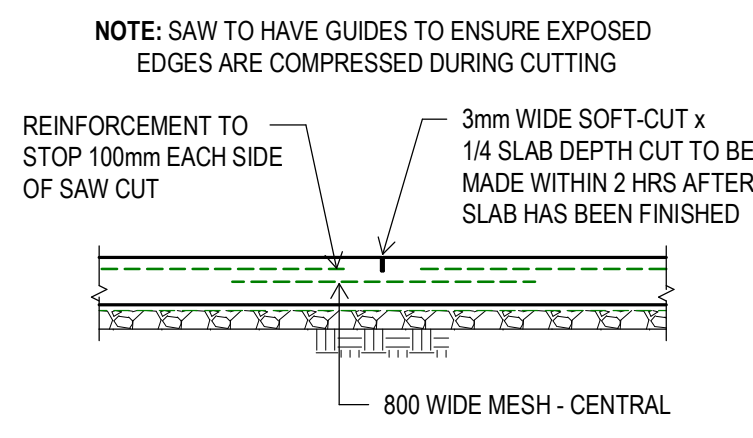
[illegible]

	Education School Infrastructure
School	
	
Contractor	RICHARD CROOKES  CONSTRUCTIONS
Project Manager	 JOHNSTAFF
 scp engineers and development consultants	
<div style="display: flex; justify-content: space-between;"> <div> L2 Danchen House 507 Kent St Sydney NSW 2000 ABN 80 003 076 024 </div> <div> T (02) 9267 9312 mail@scpconsult.com.au www.scpconsult.com.au </div> </div>	
Project UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL	
Title BUILDING V- COLUMB SCHEDULE SHEET 1	
Scale  As indicated @ A1 1:100	
Project Number S201075	Drawn M.C
Checked B.K	Approved B.K
Drawing Number PS-STR-V-DW-0401	
Revision <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> <div style="text-align: center;">2</div> </div>	



TYPICAL SLAB DETAIL

SCALE 1:20

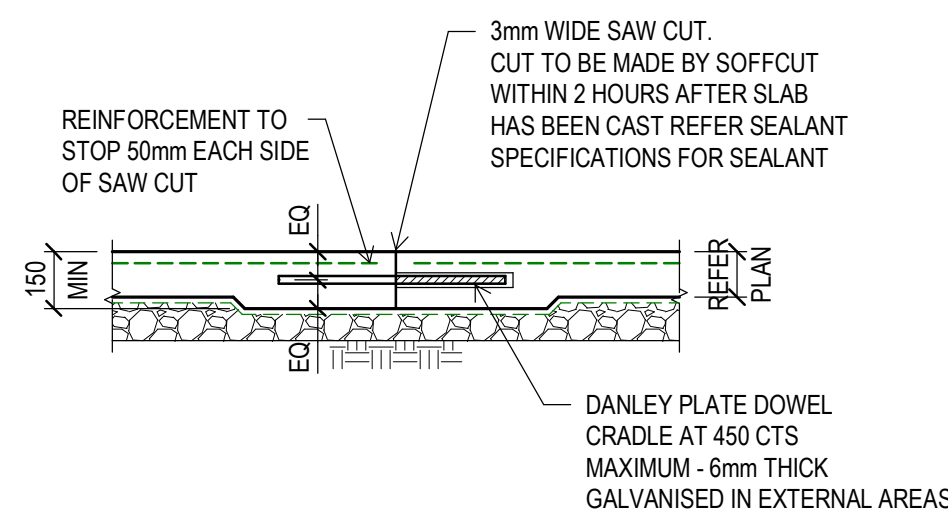


TYPICAL SAW JOINT DETAIL

SCALE 1:20

DENOTED "S.J." ON PLAN

NOTE: SAW CUTS TO BE AT 6.0M CTS MAX.
U.N.O. ON PLAN
SAW CUTS IN EXTERNAL SLABS TO BE SEALED.
REFER SEALANT SPECIFICATION FOR DETAILS

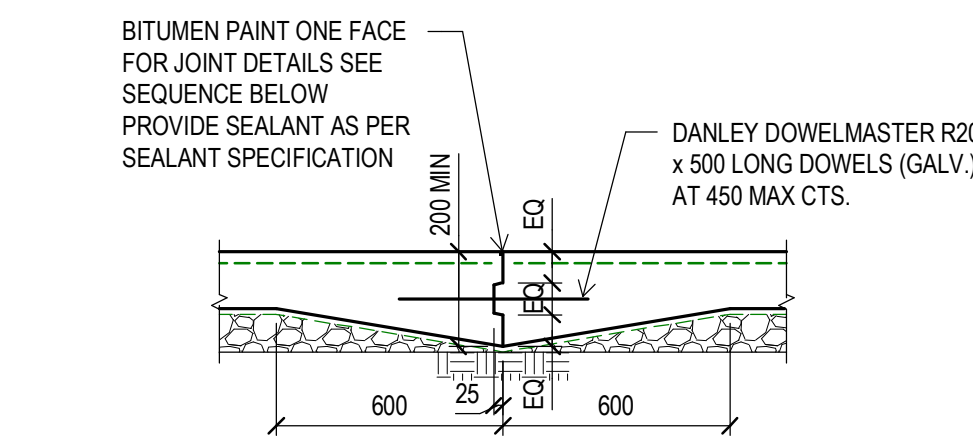


TYPICAL PLATE DOWEL SAW JOINT DETAIL

SCALE 1:20

DENOTED "P.D.S.J." ON PLAN

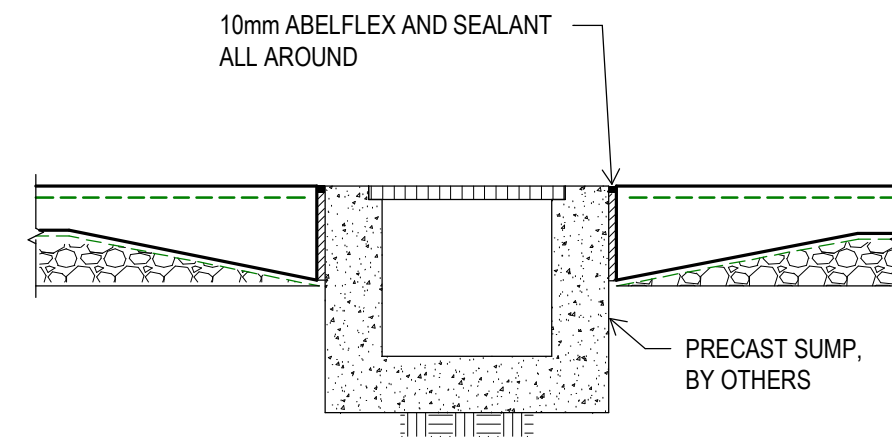
NOTE: KEY JOINT DETAIL MAY BE USED AS AN ALTERNATIVE TO D.S.J.
DOWEL SAW JOINTS TO BE AT 18M CTS MAX.
U.N.O. ON PLAN



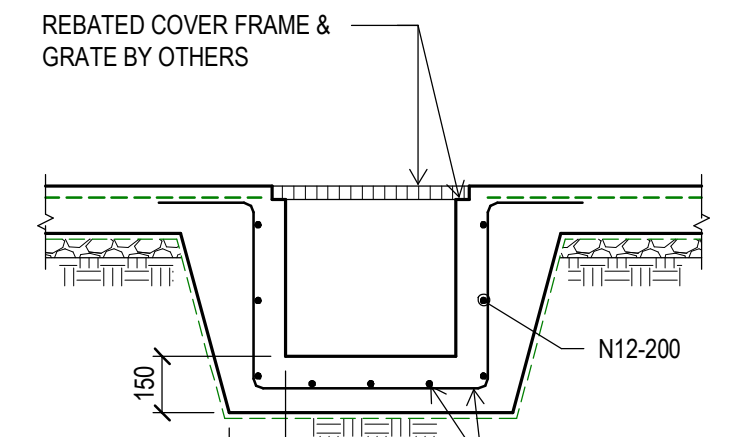
TYPICAL DOWEL KEY/EXPANSION JOINT DETAIL

SCALE 1:20

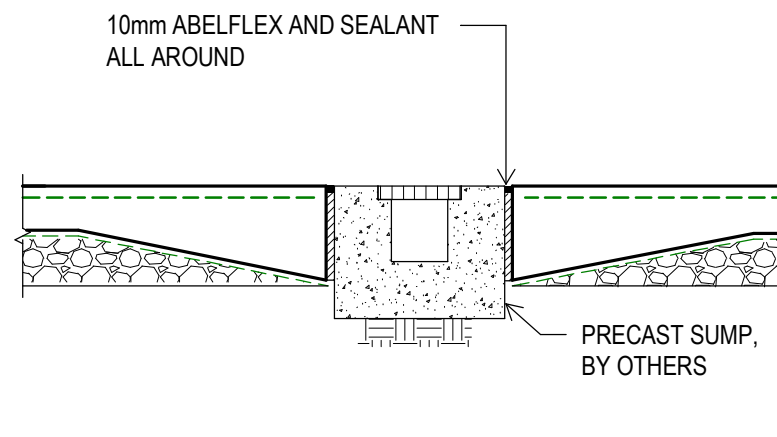
DENOTED "D.K.J." ON PLAN



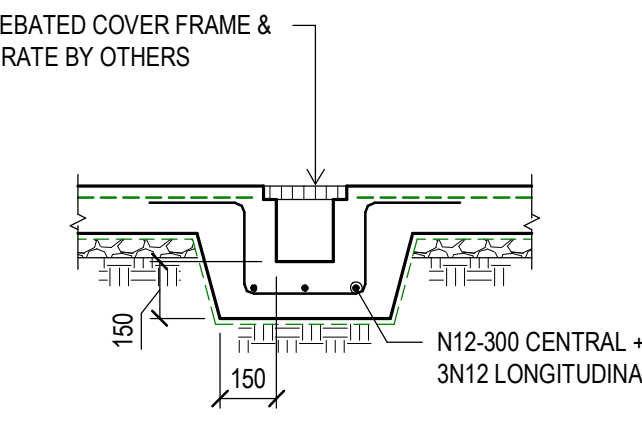
PROPRIETARY



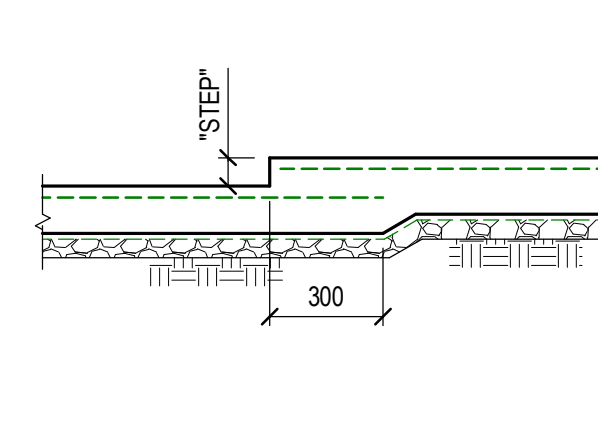
FORMED



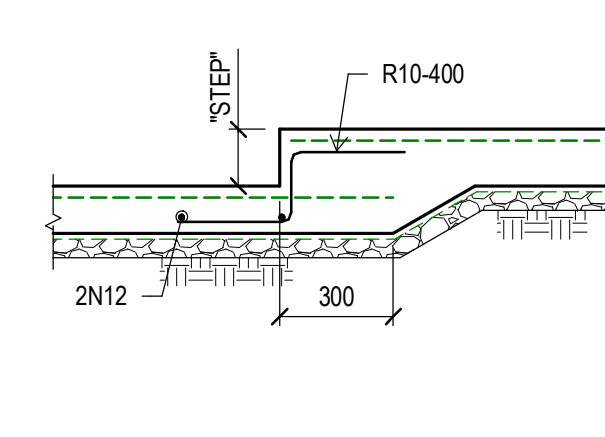
PROPRIETARY



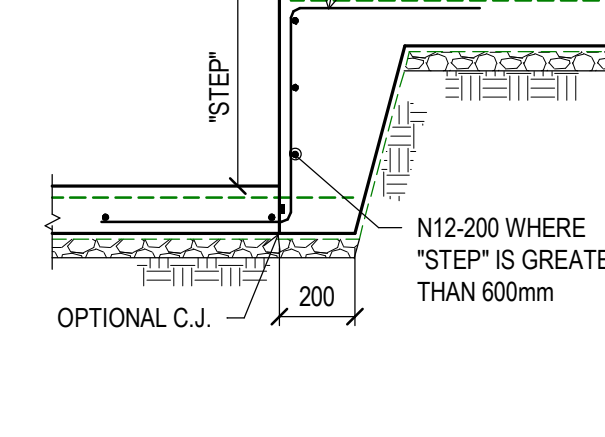
FORMED



"STEP" LESS THAN 75mm



"STEP" 75mm - 300mm



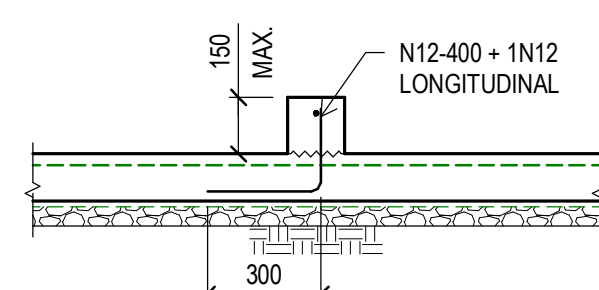
"STEP" 300mm - 1000mm

TYPICAL SUMP DETAILS

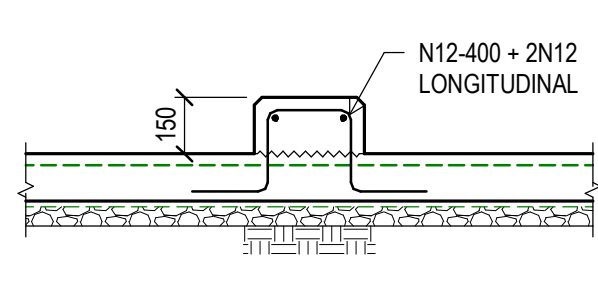
SCALE 1:20

TYPICAL GRATED DRAIN DETAILS

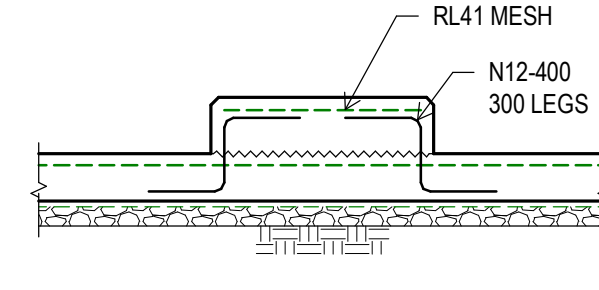
SCALE 1:20



KERB < 150mm WIDE



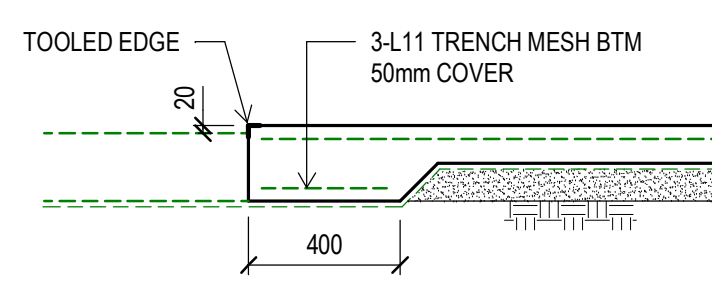
KERB 150 TO 300mm WIDE



KERB > 300mm WIDE

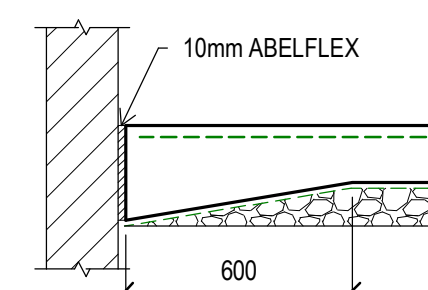
TYPICAL NON-STRUCTURAL KERB/HOB DETAILS

SCALE 1:20



TYPICAL EDGE THICKENING AT DOORWAYS

SCALE 1:20

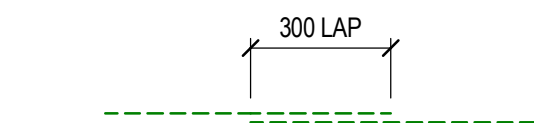


EDGE THICKENING AT VERTICAL ELEMENTS

SCALE 1:20

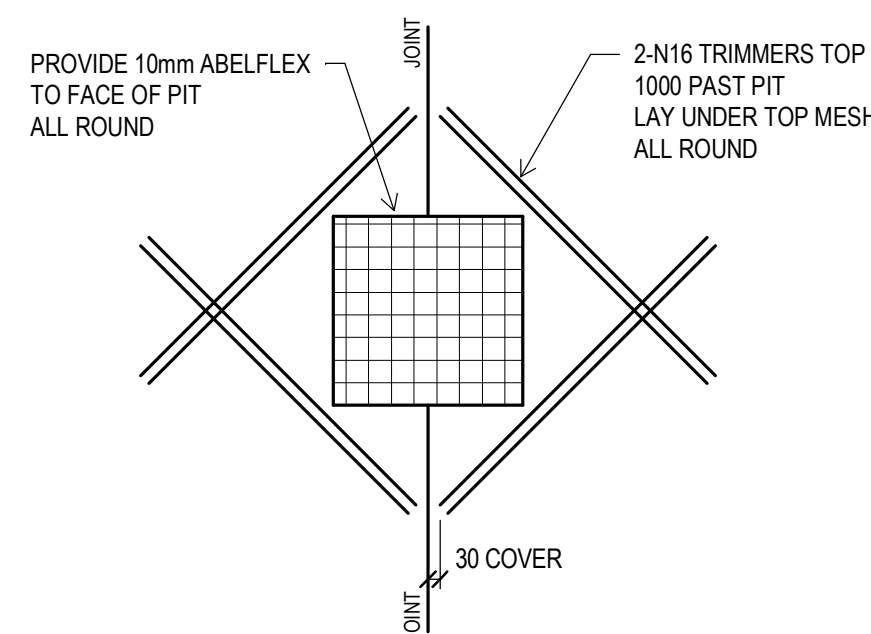
TYPICAL SLAB STEP DETAILS

SCALE 1:20



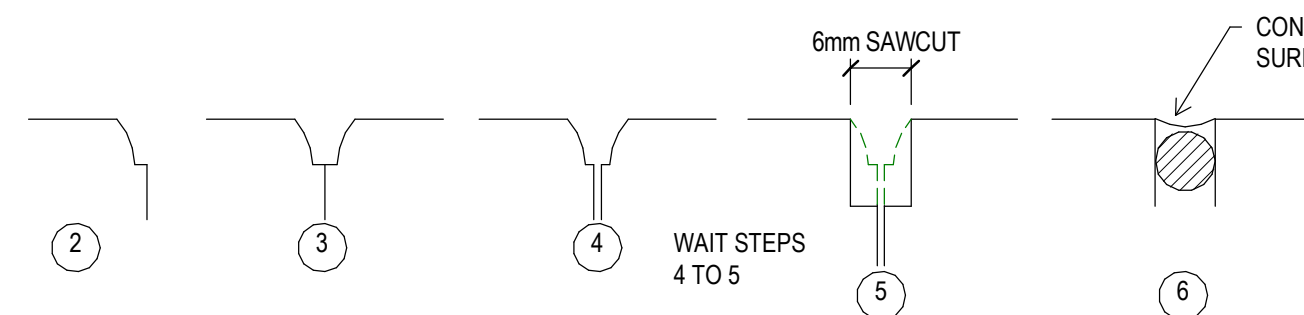
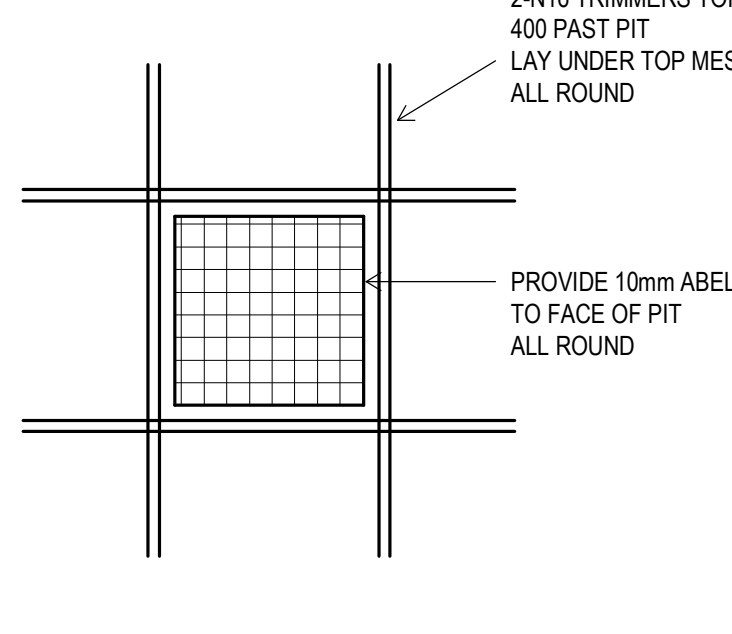
TYPICAL MESH LAP DETAIL

SCALE 1:20



TYPICAL PIT TRIMMING DETAILS

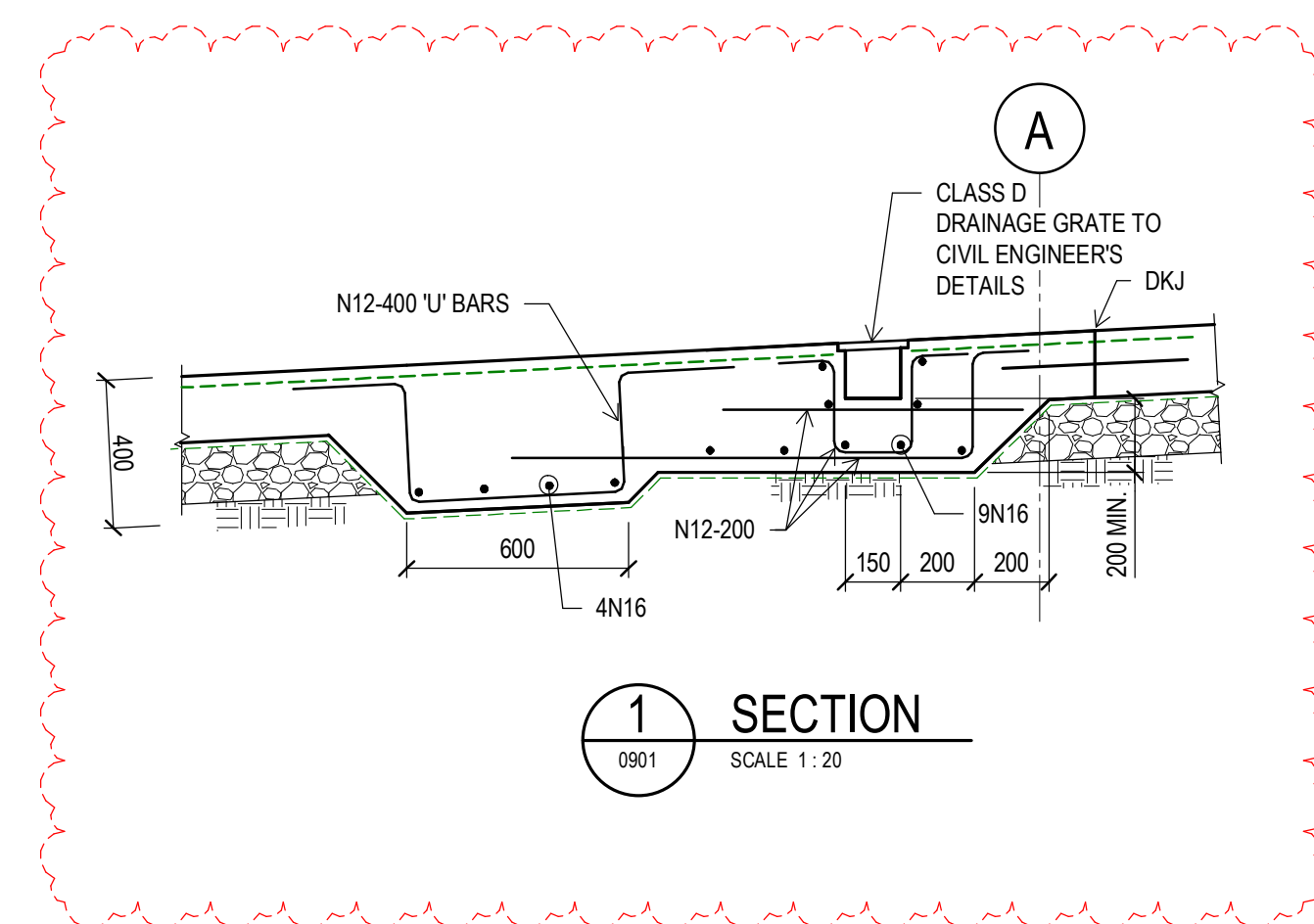
SCALE 1:20



TYPICAL CONSTRUCTION PROCEDURE AT EXPANSION KEY JOINT

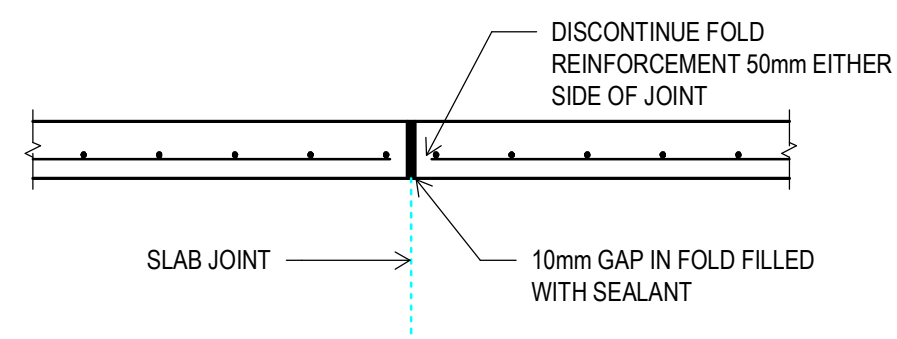
1. EDGE BOARD TO BE STRAIGHT TO WITHIN +/- 2mm
2. CONSTRUCT FIRST SLAB WITH ROUNDED EDGE (3mm MAX. CURVATURE) AT TOP FORMED WITH EDGING TOOL ENSURE ADEQUATE COMPACTION AT EDGE ALONG FULL LENGTH. BITUMEN PAINT FACE OF JOINT WHEN STRIPPED
3. CONSTRUCT OTHER SLAB, CAST HARD AGAINST FIRST SLAB, RUN EDGING TOOL ALONG EDGE OF NEW SLAB ENSURE ADEQUATE COMPACTION ALONG FULL LENGTH OF EDGE.
4. WAIT AS LONG AS POSSIBLE TO ALLOW JOINT TO OPEN.
5. SAW CUT ALONG CENTRE OF OPENING. CLEAN OUT WITH COMPRESSED AIR.
6. REFER TO JOINT SEALANT SPECIFICATION PROVIDE BACKING ROD IF FLEXIBLE SEALANT IS USED

JOINT SEQUENCE DETAILS

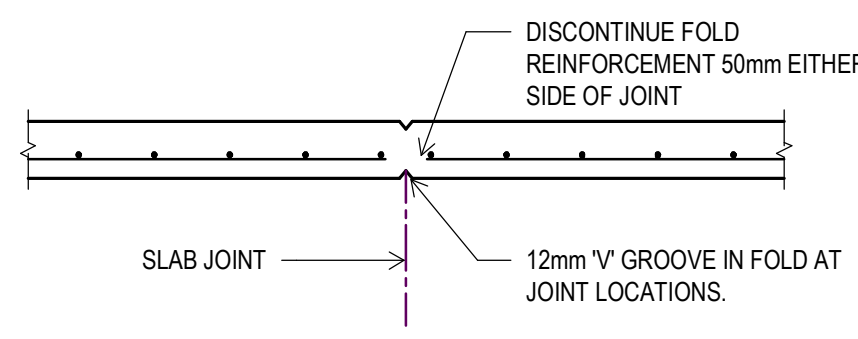


1 SECTION

SCALE 1:20



DOWELLED SAW JOINT & EXPANSION JOINT



SAW JOINT

TYPICAL DETAILS IN VERTICAL ELEMENTS AT SLAB JOINTS IN FOLDS/DOWNTURNS

SCALE 1:20

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Key Plan



4	ISSUED FOR CONSTRUCTION	18.11.21
3	ISSUED FOR CONSTRUCTION	05.11.21
2	ISSUED FOR CONSTRUCTION	28.09.21
1	ISSUED FOR CONSTRUCTION	02.09.21
E	ISSUED FOR INFORMATION	12.08.21
D	CONSTRUCTION CERTIFICATE 2 ISSUE	30.07.21
C	CONSTRUCTION CERTIFICATE 1 ISSUE	19.02.21
B	MAIN WORKS 80% DD ISSUE	10.12.20
A	80% DD COORDINATION ISSUE	06.11.20
Rev	Revision Description	Date

Client	NSW Government Education School Infrastructure
School	Chatswood High School
Contractor	RICHARD CROOKES CONSTRUCTIONS
Project Manager	JOHNSTAFF

scp engineers and development consultants

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UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL

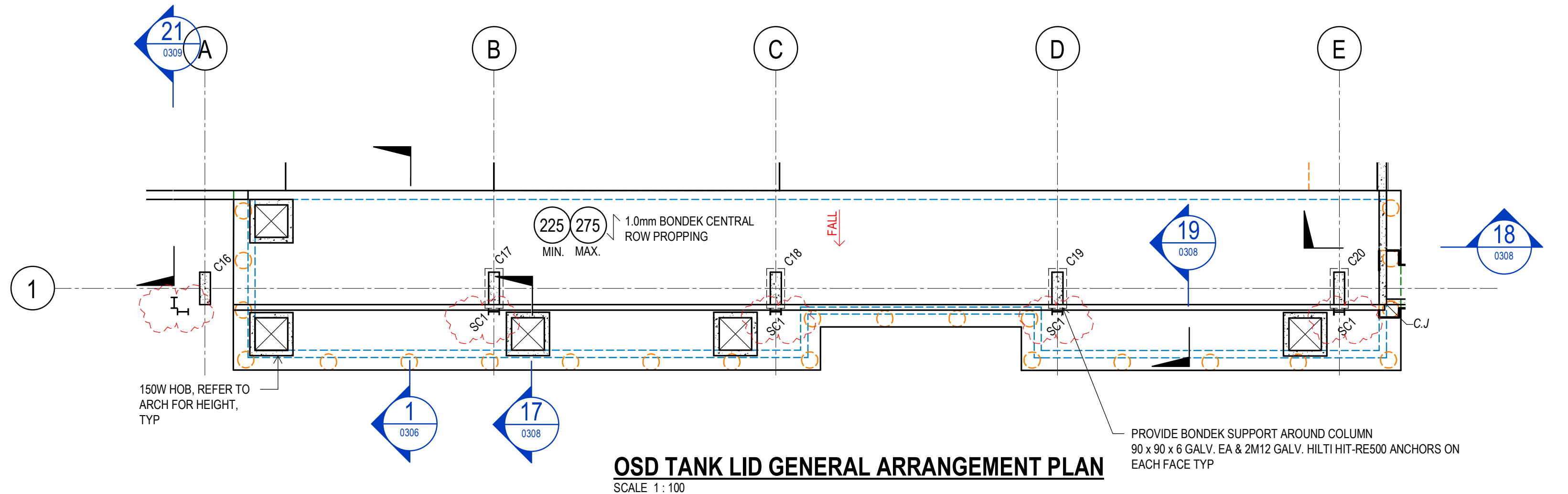
BUILDING V- SLAB ON GROUND DETAILS SHEET 1

Scale 1:20 @ A1

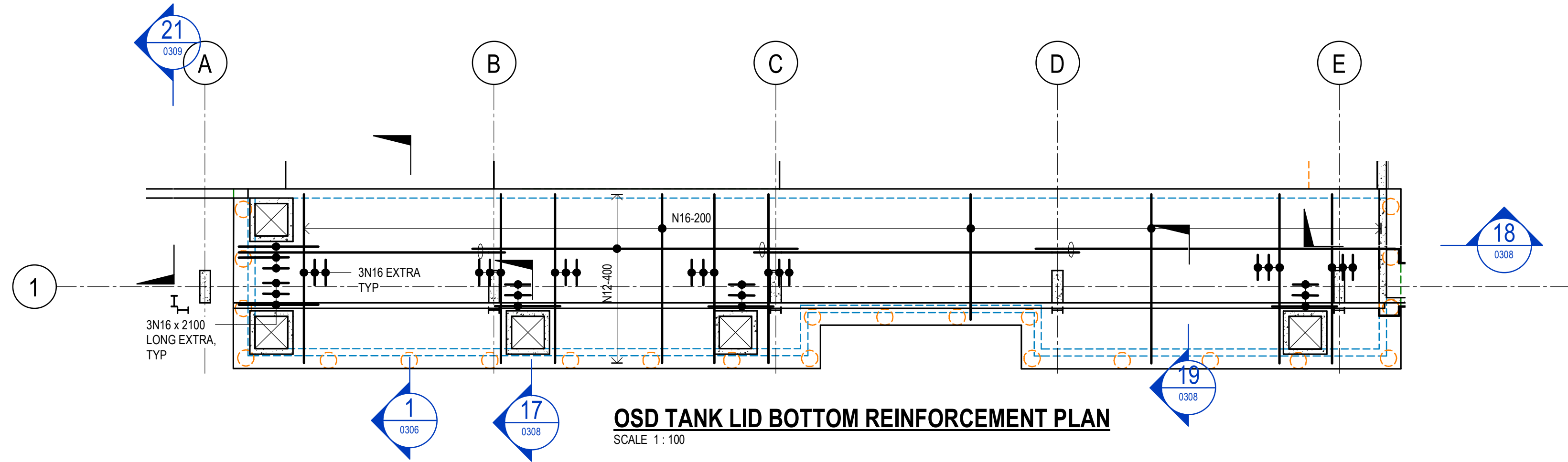
Project Number	Drawn	Checked	Approved
S201075	M.C	B.K	B.K

Drawing Number PS-STR-V-DW-0905

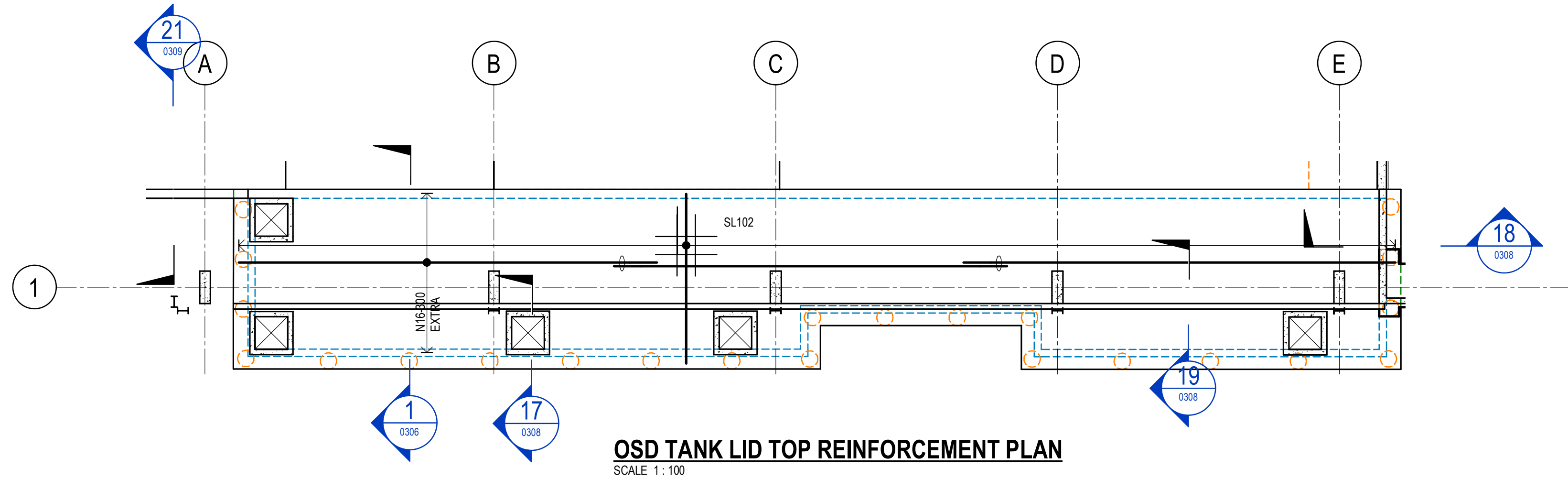
Revision 4



OSD TANK LID GENERAL ARRANGEMENT PLAN
SCALE 1 : 100



OSD TANK LID BOTTOM REINFORCEMENT PLAN
SCALE 1 : 100



OSD TANK LID TOP REINFORCEMENT PLAN
SCALE 1 : 100

GENERAL NOTES

CONCRETE STRENGTH $F_c = 32 \text{ MPa}$

CONCRETE SPECIFICATION
: REFER TO DRAWING X-STR-W-DW-0001

MAXIMUM 56 DAY DRYING SHRINKAGE
: $600 \pm 50 \text{ MICROSTAN}$

SLABS TO BE CURED WITH A CURING COMPOUND COMPATIBLE WITH APPLIED FINISHES (TO BE SUBMITTED FOR APPROVAL). ALTERNATIVELY SLABS MAY BE MEMBRANE CURED FOR 7 DAYS.

ALL HOBS, RECESSES & FALLS ARE TO ARCHITECT'S DETAILS. SLAB THICKNESSES SHOWN ARE MINIMUMS. PROVIDE ADDITIONAL THICKNESS TO CREATE INTEGRAL FALLS.

NOTE:
PROVIDE PLASTIC CHAIRS TO ALL REINFORCEMENT AND POST TENSIONING.
MAINTAIN COVER TO DRIP GROOVES.
ALL DRIP GROOVES TO ARCHITECT'S DETAILS.

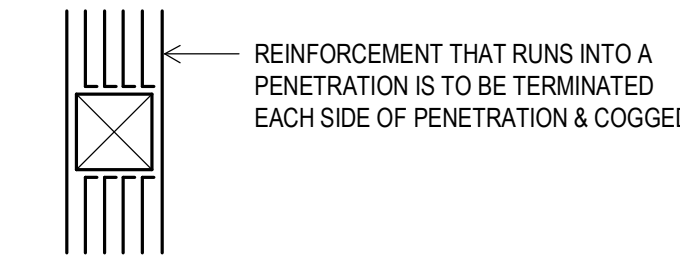
REINFORCEMENT NOTES

ALL REINFORCEMENT SUPPLIED SHALL BE ACRS CERTIFIED. AN ACRS CERTIFICATE SHALL BE SUBMITTED TO SCP CONSULTING FOR VERIFICATION

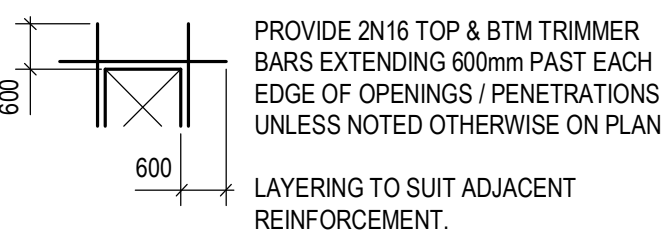
MINIMUM CLEAR COVER TO REINFORCEMENT;
: 40mm BOTTOM (INTERNAL)
: 40mm BOTTOM (EXTERNAL)
: 40mm SIDES (INTERNAL)
: 40mm SIDES (EXTERNAL)
: 40mm TOP (INTERNAL)
: 40mm TOP (EXTERNAL)

REFER TO SECTIONS FOR ANY ADDITIONAL REINFORCEMENT THAT MAY NOT BE SHOWN ON PLANS

BARS AT PENETRATIONS

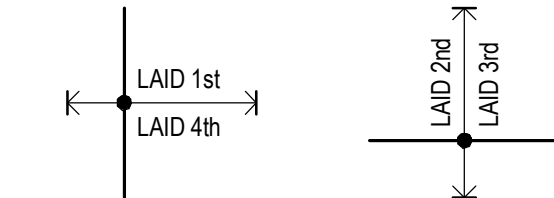


TRIMMER DETAIL



LAYERING SEQUENCE

UNLESS NOTED OTHERWISE ON PLAN



LAP SCHEDULE - SLABS (LESS THAN 300 THICK)

BAR DIAMETER	CONCRETE STRENGTH $F_c =$				
	32 MPa	40 MPa	50 MPa	65 MPa	80 MPa
N12	500	450	400	350	350
N16	700	650	600	500	500
N20	950	850	800	700	700
N24	1250	1100	1000	900	900
N28	1550	1350	1250	1100	1100
N32	1850	1650	1500	1300	1300
N36	2200	1950	1750	1550	1550

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Key Plan



Rev	Revision Description	Date
3	ISSUED FOR CONSTRUCTION	25.11.21
2	ISSUED FOR CONSTRUCTION	22.10.21
1	ISSUED FOR CONSTRUCTION	02.09.21
1	ISSUED FOR INFORMATION	12.08.21
D	CONSTRUCTION CERTIFICATE 2 ISSUE	30.07.21
C	CONSTRUCTION CERTIFICATE ISSUE	19.02.21
B	MAIN WORKS 80% DD ISSUE	10.12.20
A	80% DD COORDINATION ISSUE	06.11.20

Client	NSW GOVERNMENT Education School Infrastructure
School	CHATSWOOD PUBLIC SCHOOL
School	CHATSWOOD HIGH SCHOOL
Contractor	RICHARD CROOKES CONSTRUCTIONS
Project Manager	JOHNSTAFF

Client	NSW GOVERNMENT Education School Infrastructure
School	CHATSWOOD PUBLIC SCHOOL
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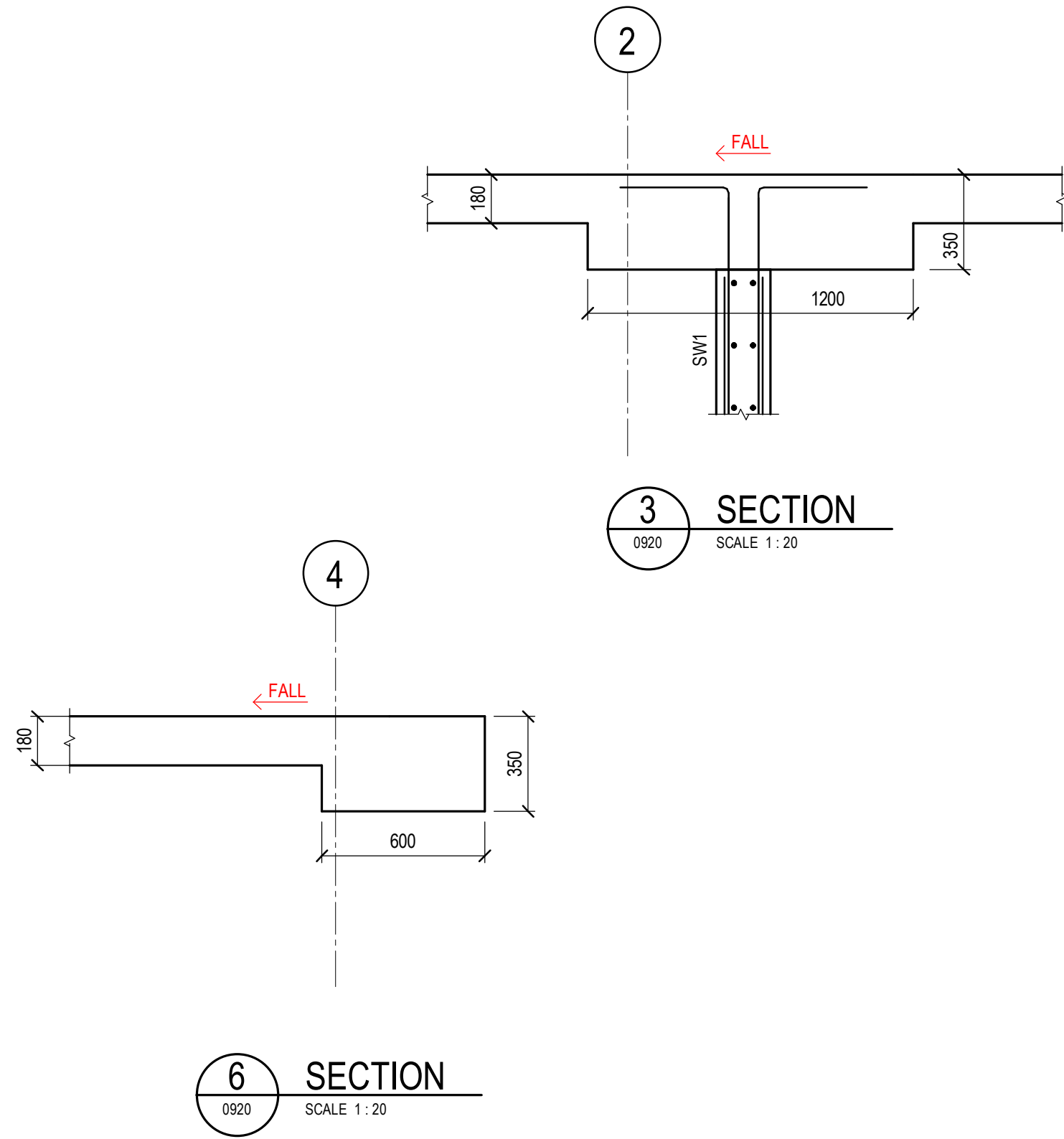
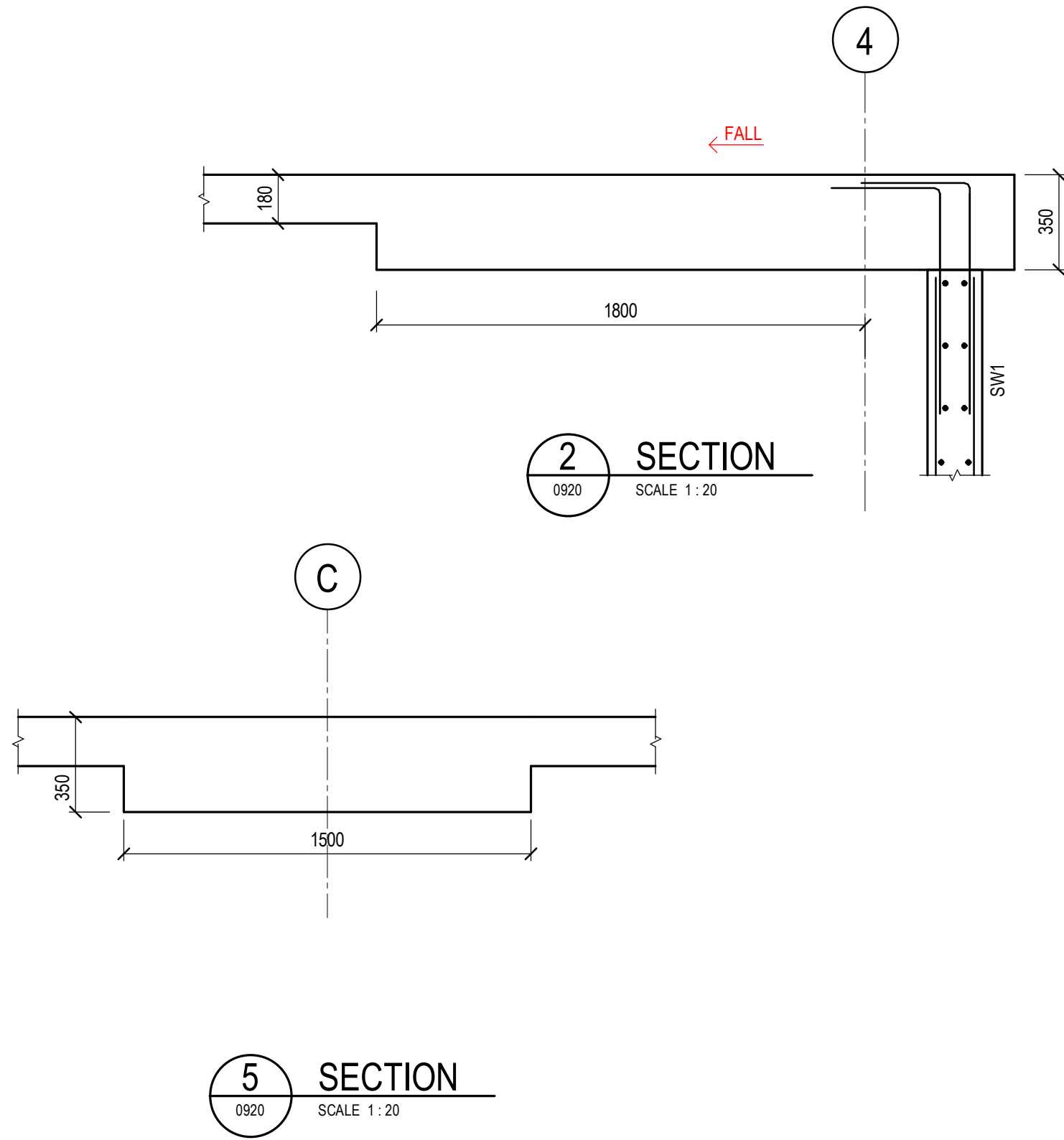
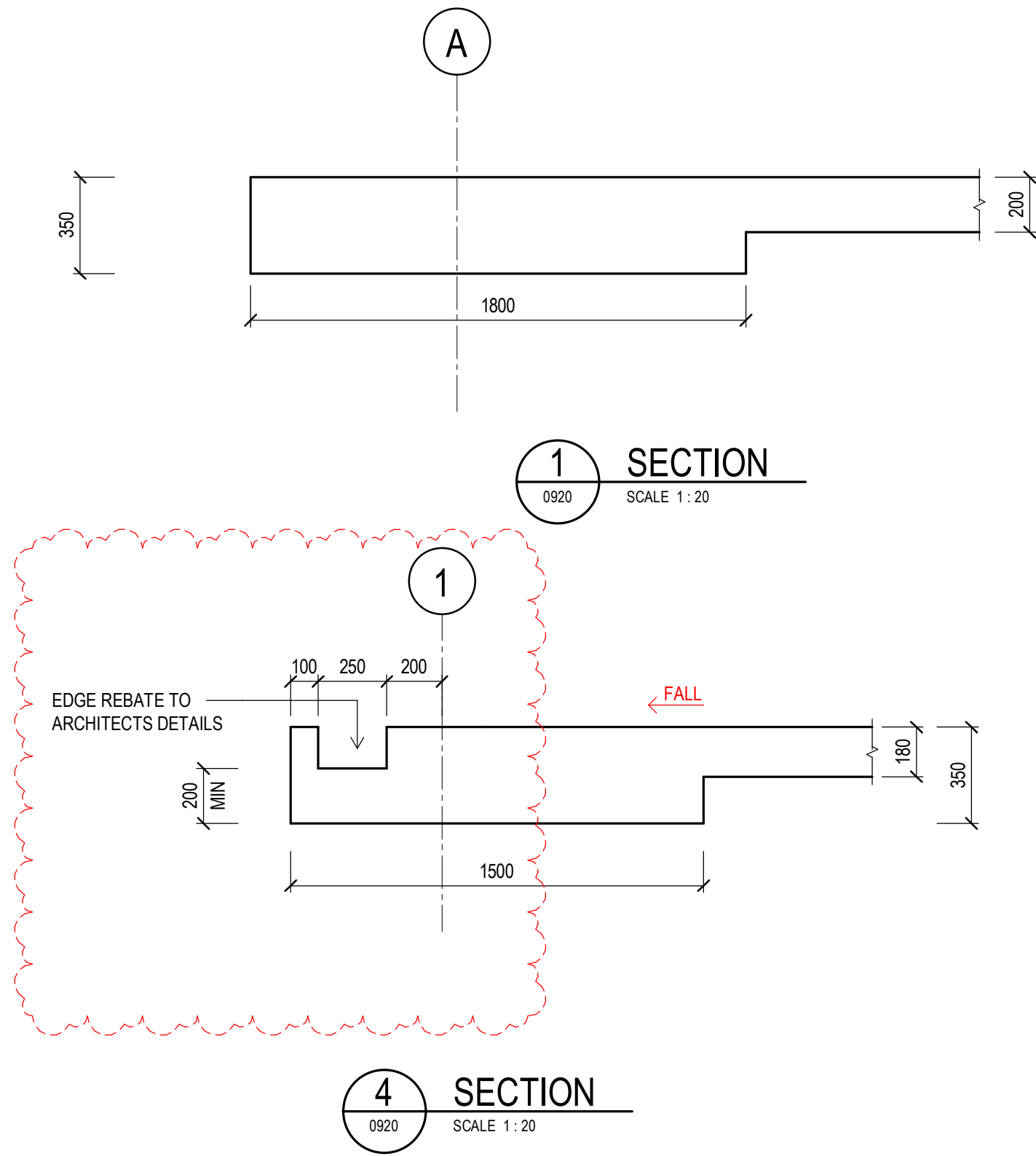
Project
UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL

Title
BUILDING V- OSD TANK PLANS

Scale
0 5M 1:100
As indicated @ A1

Project Number	Drawn	Checked	Approved
S201075	M.C	B.K	B.K

Drawing Number	Revision
PS-STR-V-DW-0910	3



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Rev	Revision Description	Date
2	ISSUED FOR CONSTRUCTION	22.10.21
1	ISSUED FOR CONSTRUCTION	02.09.21
A	ISSUED FOR INFORMATION	12.08.21

Client

School

School

Contractor

Project Manager

scps engineers and development consultants

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Project
UPGRADE TO CHATSWOOD PUBLIC SCHOOL AND CHATSWOOD HIGH SCHOOL

Title
BUILDING V- GROUND FLOOR DETAILS SHEET 1



Project Number	Drawn	Checked	Approved
S201075	Author	Checker	B.K

Drawing Number	Revision
PS-STR-V-DW-0925	2