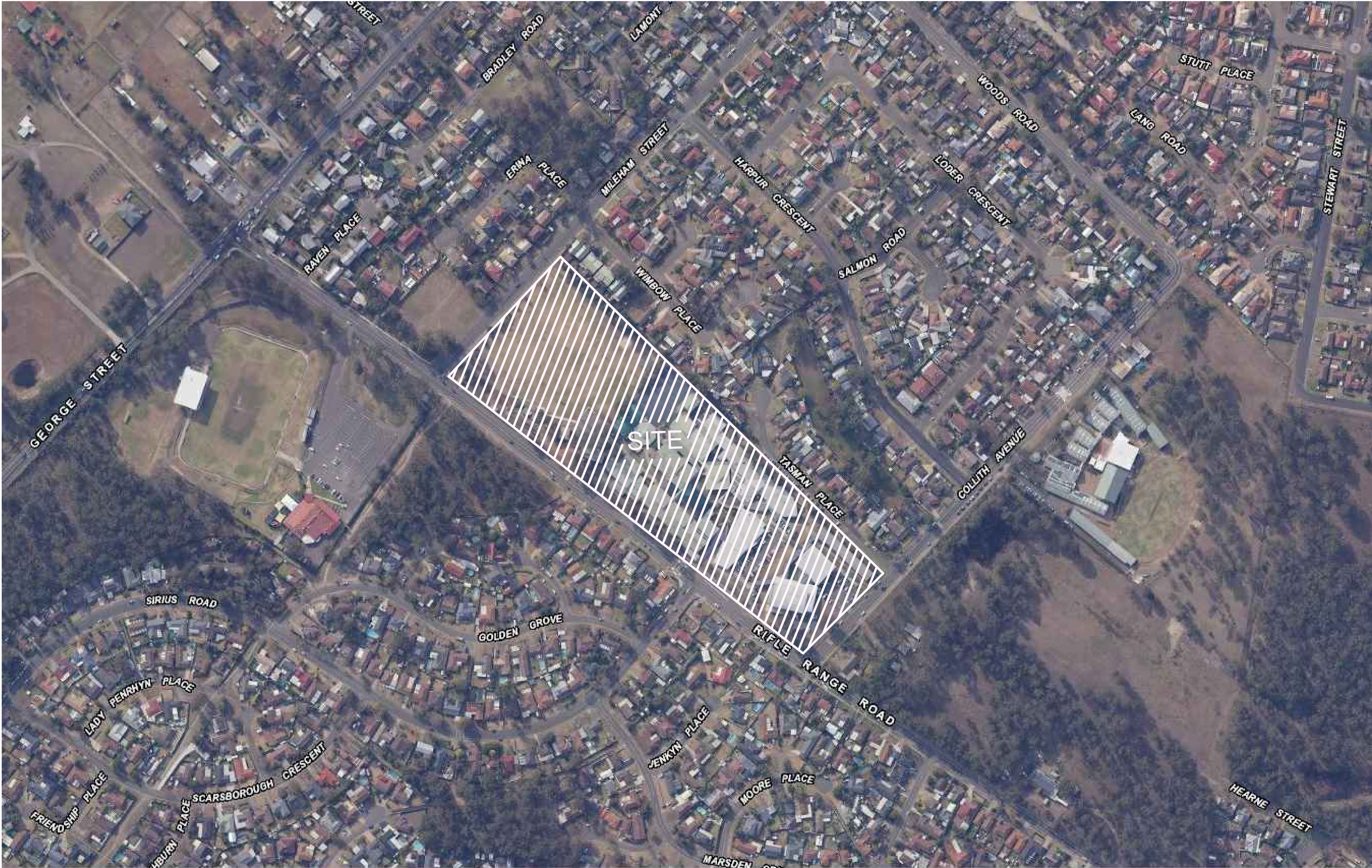


BEDE POLDING COLLEGE - ALTERATIONS AND ADDITIONS

20-22 RIFLE ROAD SOUTH WINDSOR NSW 2756

CIVIL STORMWATER DRAINAGE AND EXTERNAL WORKS PLAN



LOCALITY MAP. (COURTESY OF SIX MAPS)

DRAWING REGISTER			
NO.	TITLE	NO.	TITLE
C.DA.01	COVER SHEET	C.DA.12	CIVIL WORKS PLAN - SHEET 2
C.DA.02	CONSTRUCTION NOTES - SHEET 1	C.DA.13	CIVIL WORKS PLAN - SHEET 3
C.DA.03	CONSTRUCTION NOTES - SHEET 2	C.DA.14	DETAILS SHEET 1 - STORMWATER
C.DA.04	SOIL EROSION & SEDIMENT CONTROL PLAN - SHEET 1	C.DA.15	DETAILS SHEET 2 - STORMWATER
C.DA.04A	SOIL EROSION & SEDIMENT CONTROL PLAN - SHEET 1A	C.DA.16	DETAILS SHEET 3 - CIVIL
C.DA.05	SOIL EROSION & SEDIMENT CONTROL PLAN - SHEET 2	C.DA.17	DETAILS SHEET 4 - CIVIL
C.DA.06	SOIL EROSION & SEDIMENT CONTROL DETAILS	C.DA.18	DETAILS SHEET 5 - CIVIL
C.DA.07	CUT AND FILL PLAN	C.DA.30	CATCHMENT PLAN - SHEET 1
C.DA.08	BULK SECTIONS - SHEET 1	C.DA.31	CATCHMENT PLAN - SHEET 2
C.DA.08A	BULK SECTIONS - SHEET 1A	C.DA.32	CATCHMENT PLAN - SHEET 3
C.DA.09	BULK SECTIONS - SHEET 2	C.DA.40	MUSIC MODEL
C.DA.10	CIVIL WORKS OVERALL PLAN	C.DA.50	EXISTING FLOOD STUDY PLAN
C.DA.11	CIVIL WORKS PLAN - SHEET 1	C.DA.51	DESIGN FLOOD STUDY PLAN
C.DA.11A	CIVIL WORKS PLAN - SHEET 1A		

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P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
P3	FOR DA APPROVAL	-	26-05-22
P2	FOR DA APPROVAL	-	18-02-22
P1	FOR DA APPROVAL	-	22-11-21
ISSUE	DESCRIPTION	APPROVED	DATE

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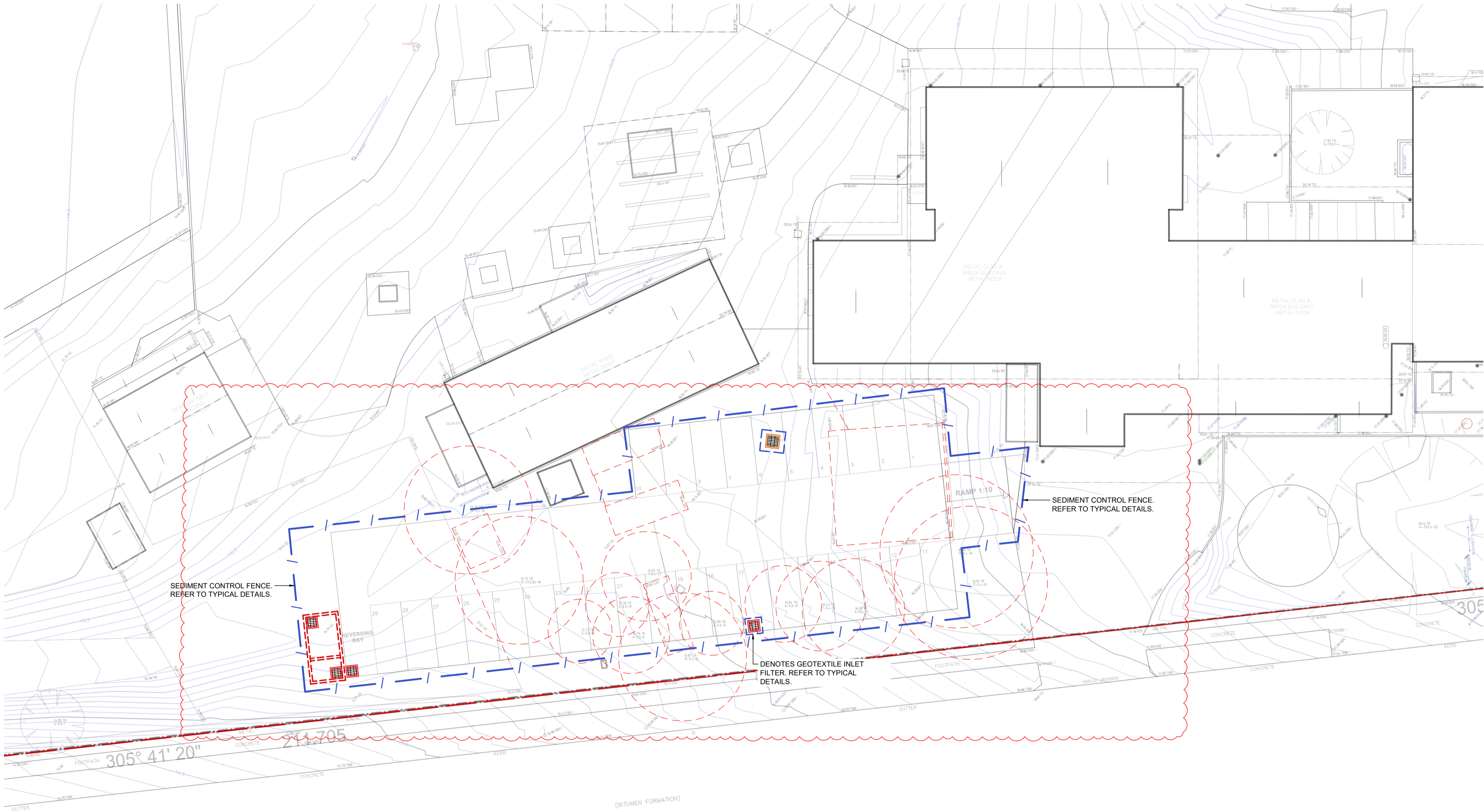
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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE			
COVER SHEET			
SCALES as noted @ A1			DATE AUG' 2021
DRAWN JM	DESIGN MG	VERIFIED	APPROVED
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ISSUE P5	PROJECT No. 8252	DRAWING No. C.DA.01	



SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1A
SCALE 1:200

GENERAL NOTES.

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR CONSTRUCTION SEDIMENT & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.
6. MAINTENANCE AND AUDITING OF SEDIMENT AND EROSION CONTROL IN ACCORDANCE WITH THE BLUE BOOK AND ANY RELEVANT CONSENT CONDITIONS.
7. LOW POINTS OF EXCAVATION SHALL BE PUMPED TO THE SEDIMENT BASIN WHERE PROVIDED.
8. PROVIDE WIND, AND DUST CONTROL IN ACCORDANCE WITH THE BLUE BOOK.
9. PROVIDE BUNDS AND CATCH DRAINS AT THE TOP OF ALL BATTERS SO BATTERS ARE NOT ERODED WITH OVERLAND FLOW STORMWATER RUNOFF.

SOIL EROSION AND SEDIMENT CONTROL LEGEND

- DENOTES SEDIMENT CONTROL FENCE
- DENOTES GEOTEXTILE INLET FILTER
- TEMPORARY CONSTRUCTION STABILISED SITE ACCESS POINT. SHAKEDOWN CATTLE GRID AT ACCESS POINT NOT SHOWN FOR CLARITY
- DENOTES STOCKPILE SHOWN INDICATIVE. MANAGED AND CONSTRUCTED
- SITE BOUNDARY
- DENOTES PROPOSED BUILDING EXTENT
- EXISTING TO BE DEMOLISHED
- DENOTES DIRTY WATER SWALE 2m WIDE x 0.3m DEEP
- DENOTES CLEAN WATER SWALE 2m WIDE x 0.3m DEEP
- PROPOSED HAYBALE FILTER
- PROPOSED SANDBAG OR GEOTEXTILE SOCK FILLED WITH GRAVEL AT INVERT OF GUTTER
- DENOTES CATCH DRAIN
- DENOTES TEMPORARY STABILISED ROADBASE ROAD

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

P2	REVISION AS CLOUDED FOR DA APPROVAL	-	11-11-22
P1	ISSUE	DESCRIPTION	APPROVED DATE

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CATHOLIC EDUCATION
DIOCESE OF PARRAMATTA

ARCHITECT

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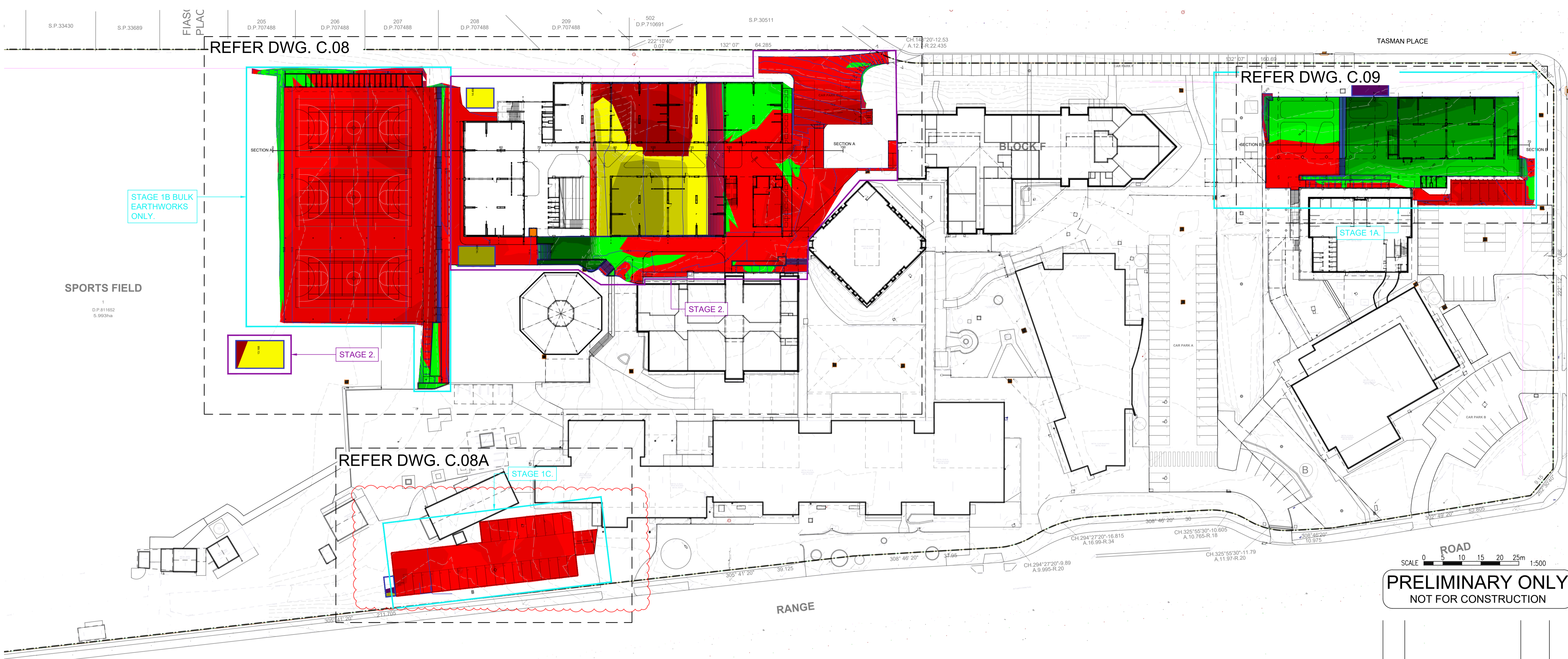
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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
SOIL EROSION AND SEDIMENT
CONTROL PLAN - SHEET 1A

SCALES as noted @ A1			DATE AUG' 2021
DRAWN JM	DESIGN MG	VERIFIED -	APPROVED -
ISSUE P2	PROJECT No. 8252	DRAWING No. C.DA.04A	

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P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
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P2	FOR DA APPROVAL	-	18-02-22
P1	FOR DA APPROVAL	-	22-11-21



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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

CUT AND FILL PLAN - OVERALL

SCALES as noted @ A1			DATE AUG' 2021
DRAWN LD	DESIGN MG	VERIFIED -	APPROVED -
ISSUE P5	PROJECT No. 8252	DRAWING No. C.DA.07	

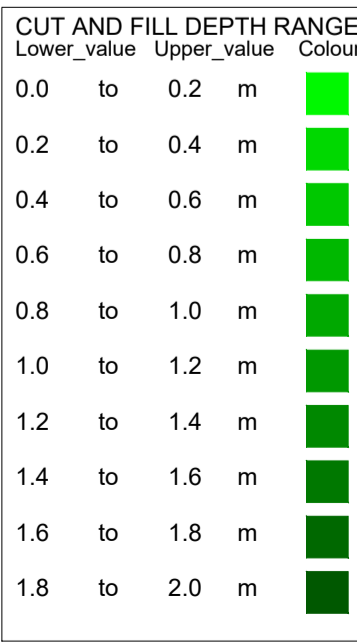
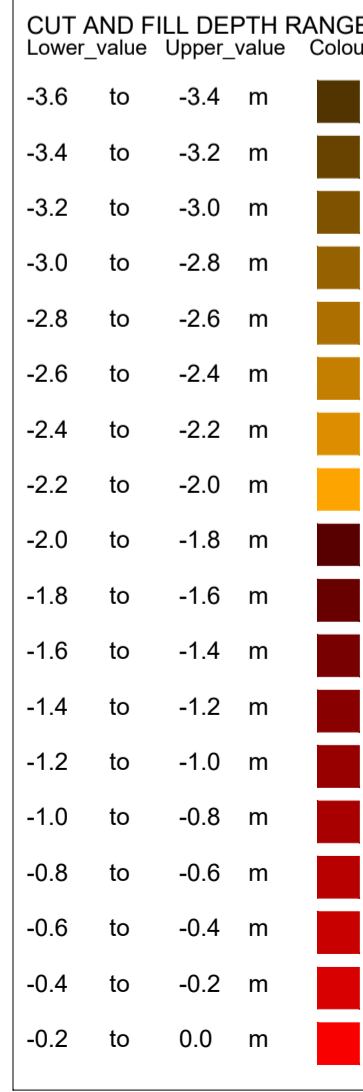
CUT AND FILL OVERALL PLAN

SCALE 1:500
NOTE:
TEMPORARY EXCAVATIONS SHALL NOT ENCROACH INTO TREE PROTECTION AREA.
BUILDER TO PROVIDE TEMPORARY SHORING OR CONSTRUCT SOLDIER PILE WALL.

STAGE 1 BULK EARTHWORKS VOLUME			
STAGE	CUT	FILL	EXCESS
STAGE 1A	166	1002	836
STAGE 1B	885	41	-844
STAGE 1C	188	0	-188
TOTAL	1239	1043	-196

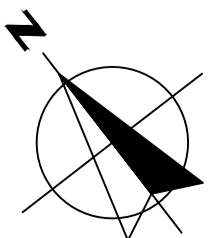
STAGE 2 BULK EARTHWORKS VOLUME			
STAGE	CUT	FILL	EXCESS
STAGE 2	1957	172	-1785
TOTAL	1957	172	-1785

PROJECT BULK EARTHWORKS VOLUME			
STAGE	CUT	FILL	EXCESS
STAGE 1	1239	1043	-196
STAGE 2	1957	172	-1785
TOTAL	3196	1215	-1981



- BULK EARTHWORKS NOTES:**
- BULK EARTHWORKS LEVELS ARE BASE ON THE FOLLOWING PAVEMENT THICKNESS AND ALLOWANCES:
 - 160mm BUILDING PLATFORM
 - 300mm CAR PARKING
 - 275mm COURTS
 - 210mm FOOTPATH
 - THE EXISTING GROUND SURFACE IS NOT LOWERED TO ACCOUNT FOR ANY TOPSOIL/ VEGETATION OR EXISTING PAVEMENTS. STRIPPING VOLUME ASSESSMENT TO BE MADE BY CONTRACTOR.
 - BULKING FACTOR OF 1.0 WAS USED FOR BOTH CUT & FILL.
 - NO ALLOWANCE HAS BEEN MADE FOR DETAILED WORKS SUCH AS FOOTINGS, SET DOWN, LIFT PITS, SERVICE TRENCHES & STORMWATER/SUBSOIL TRENCHES, TEMP CONSTRUCTION PLATFORMS, STABILISATION, TEMP BATTERS, BENCHING, RETAINING WALL BACKFILL, REMOVAL OF HAZARDOUS MATERIAL OR TEMPORARY SEDIMENT BASINS, OR SOFT EXISTING UNSUITABLE MATERIAL, UPPER CARPARK OSD, PIPE AND PIT OSDs AND THE LOWER CARPARK PAVEMENT FOR ABOVE GROUND LEVELS TO BE ACHIEVED. DETAILED SUBGRADE EXCAVATION IS REQUIRED IN VICINITY OF OSD 2.
 - THIS PLAN IS PREPARED FOR INFORMATION PURPOSES ONLY AND IS INDICATIVE ONLY. EARTH WORKS CONTRACTOR IS TO VERIFY ALL LEVELS AND QUANTITIES AND PERFORM THEIR OWN BULK EARTHWORK ASSESSMENT. SOME FILL AND CUT HAS BEEN SHOWN BASED ON ASSUMED LANDSCAPE PROFILING AND IS THE RESPONSIBILITY OF OTHERS

LEGEND	
---	EXISTING CONTOUR
---	BULK CONTOUR
23.3	BULK CONTOUR HEIGHT





CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
-3.6	to -3.4	m
-3.4	to -3.2	m
-3.2	to -3.0	m
-3.0	to -2.8	m
-2.8	to -2.6	m
-2.6	to -2.4	m
-2.4	to -2.2	m
-2.2	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.4	m
-1.4	to -1.3	m
-1.3	to -1.2	m
-1.2	to -1.0	m
-1.0	to -0.8	m
-0.8	to -0.6	m
-0.6	to -0.4	m
-0.4	to -0.2	m
-0.2	to 0.0	m

CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
0.0	to 0.2	m
0.2	to 0.4	m
0.4	to 0.6	m
0.6	to 0.8	m
0.8	to 1.0	m
1.0	to 1.2	m
1.2	to 1.4	m
1.4	to 1.6	m
1.6	to 1.8	m
1.8	to 2.0	m

BULK EARTHWORKS NOTES:

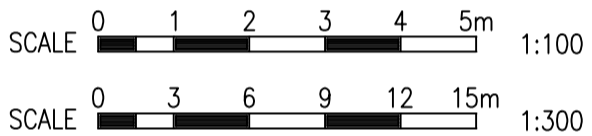
- BULK EARTHWORKS LEVELS ARE BASE ON THE FOLLOWING PAVEMENT THICKNESS AND ALLOWANCES:
 - 160mm BUILDING PLATFORM
 - 300mm CAR PARKING
 - 275mm COURTS
 - 210mm FOOTPATH
- THE EXISTING GROUND SURFACE IS NOT LOWERED TO ACCOUNT FOR ANY TOPSOIL/ VEGETATION OR EXISTING PAVEMENTS. STRIPPING VOLUME ASSESSMENT TO BE MADE BY CONTRACTOR.
- BULKING FACTOR OF 1.0 WAS USED FOR BOTH CUT & FILL.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED WORKS SUCH AS FOOTINGS, SET DOWN, LIFT PITS, SERVICE TRENCHES & STORMWATER/SUBSOIL TRENCHES, TEMP CONSTRUCTION PLATFORMS, STABILISATION, TEMP BATTERS, BENCHING, RETAINING WALL BACKFILL, REMOVAL OF HAZARDOUS MATERIAL OR TEMPORARY SEDIMENT BASINS, OR SOFT EXISTING UNSUITABLE MATERIAL, UPPER CARPARK OSD, PIPE AND PIT OSDs AND THE LOWER CARPARK PAVEMENT FOR ABOVE GROUND LEVELS TO BE ACHIEVED. DETAILED SUBGRADE EXCAVATION IS REQUIRED IN VICINITY OF OSD 2.
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LEGEND

---	EXISTING CONTOUR
---	BULK CONTOUR
23.3	BULK CONTOUR HEIGHT

TOTAL CUT VOLUME	2823.14 M3
TOTAL FILL VOLUME	206.35 M3
EXCESS OF CUT OVER FILL	2616.79 M3

NOTE: VOLUMES ARE FROM EXISTING TO BULK EARTHWORKS LEVEL
NO ALLOWANCE FOR THE REMOVAL OF TOPSOIL



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ISSUE	DESCRIPTION	APPROVED	DATE
P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
P3	FOR DA APPROVAL	-	26-05-22
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P1	FOR DA APPROVAL	-	22-11-21

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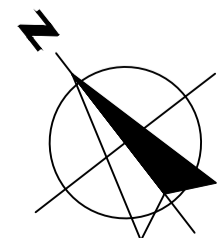
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PROJECT
**BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS**
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
**BULK EXCAVATION PLAN (07-10)
& SECTIONS**

SCALES as noted @ A1			DATE AUG' 2021
DRAWN LD	DESIGN MG	VERIFIED -	APPROVED -

ISSUE P5	PROJECT No. 8252	DRAWING No. C.08
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BULK EXCAVATION (07-10)

SCALE 1:300
NOTE:
TEMPORARY EXCAVATIONS SHALL NOT ENCROACH INTO TREE PROTECTION AREA.
BUILDER TO PROVIDE TEMPORARY SHORING OR CONSTRUCT SOLDIER PILE WALL.

13
CHAINAGE
APPROX. EXISTING SURFACE
BULK LEVEL
CHANGED LEVELS

0	10	20	30	40	15.599
14.042	14.152	14.491	14.671	14.776	
14.132	14.065	14.166	14.266	14.410	15.599
+0.090	-0.087	-0.325	-0.405	-0.366	0.000

Section A

15
CHAINAGE
APPROX. EXISTING SURFACE
BULK LEVEL
CHANGED LEVELS

50	60	70	80	90	16.900
15.599	15.647	15.702	15.758	17.016	
15.599	15.647	15.702	15.752	15.840	15.939
0.000	0.000	0.000	-0.006	-1.176	-0.961

Section A

15
CHAINAGE
APPROX. EXISTING SURFACE
BULK LEVEL
CHANGED LEVELS

100	110	120	130	140	150
16.900	17.161	17.331	17.548	17.334	17.257
15.939	16.038	17.260	17.260	17.061	17.257
-0.961	-1.123	-0.071	-0.288	-0.273	0.000

Section A

SECTION A
SCALE 1:100

LEGEND	
---	EXISTING SURFACE
---	BULK SURFACE



CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
-3.6	to -3.4	m
-3.4	to -3.2	m
-3.2	to -3.0	m
-3.0	to -2.8	m
-2.8	to -2.6	m
-2.6	to -2.4	m
-2.4	to -2.2	m
-2.2	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.4	m
-1.4	to -1.3	m
-1.3	to -1.2	m
-1.2	to -1.0	m
-1.0	to -0.8	m
-0.8	to -0.6	m
-0.6	to -0.4	m
-0.4	to -0.2	m
-0.2	to 0.0	m

CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
0.0	to 0.2	m
0.2	to 0.4	m
0.4	to 0.6	m
0.6	to 0.8	m
0.8	to 1.0	m
1.0	to 1.2	m
1.2	to 1.4	m
1.4	to 1.6	m
1.6	to 1.8	m
1.8	to 2.0	m

BULK EARTHWORKS NOTES:

- BULK EARTHWORKS LEVELS ARE BASE ON THE FOLLOWING PAVEMENT THICKNESS AND ALLOWANCES:
- 300mm CAR PARKING
- THE EXISTING GROUND SURFACE IS NOT LOWERED TO ACCOUNT FOR ANY TOPSOIL/ VEGETATION OR EXISTING PAVEMENTS. STRIPPING VOLUME ASSESSMENT TO BE MADE BY CONTRACTOR.
- BULKING FACTOR OF 1.0 WAS USED FOR BOTH CUT & FILL.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED WORKS SUCH AS FOOTINGS, SET DOWN, LIFT PITS, SERVICE TRENCHES & STORMWATER/SUBSOIL TRENCHES, TEMP CONSTRUCTION PLATFORMS, STABILISATION, TEMP BATTERS, BENCHING, RETAINING WALL BACKFILL, REMOVAL OF HAZARDOUS MATERIAL OR TEMPORARY SEDIMENT BASINS, OR SOFT EXISTING UNSUITABLE MATERIAL, UPPER CARPARK OSD, PIPE AND PIT OSDs AND THE LOWER CARPARK PAVEMENT FOR ABOVE GROUND LEVELS TO BE ACHIEVED. DETAILED SUBGRADE EXCAVATION IS REQUIRED IN VICINITY OF OSD 2.
- THIS PLAN IS PREPARED FOR INFORMATION PURPOSES ONLY AND IS INDICATIVE ONLY. EARTH WORKS CONTRACTOR IS TO VERIFY ALL LEVELS AND QUANTITIES AND PERFORM THEIR OWN BULK EARTHWORK ASSESSMENT. SOME FILL AND CUT HAS BEEN SHOWN BASED ON ASSUMED LANDSCAPE PROFILING AND IS THE RESPONSIBILITY OF OTHERS

LEGEND

---	EXISTING CONTOUR
---	BULK CONTOUR
23.3	BULK CONTOUR HEIGHT

TOTAL CUT VOLUME	188 M3
TOTAL FILL VOLUME	0 M3
EXCESS OF CUT OVER FILL	188 M3
NOTE: VOLUMES ARE FROM EXISTING TO BULK EARTHWORKS LEVEL NO ALLOWANCE FOR THE REMOVAL OF TOPSOIL	

BULK EXCAVATION (CARPARK)

SCALE 1:200
NOTE:
TEMPORARY EXCAVATIONS SHALL NOT ENCROACH INTO TREE PROTECTION AREA.
BUILDER TO PROVIDE TEMPORARY SHORING OR CONSTRUCT SOLDIER PILE WALL.

SCALE 0 2 4 6 8 10m 1:200

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P1	REVISION AS CLOUDED	-	11-11-22
ISSUE	DESCRIPTION	APPROVED	DATE

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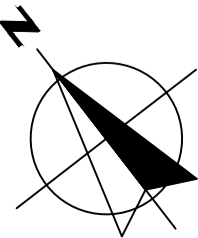
PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
BULK EXCAVATION PLAN
(CARPARK)

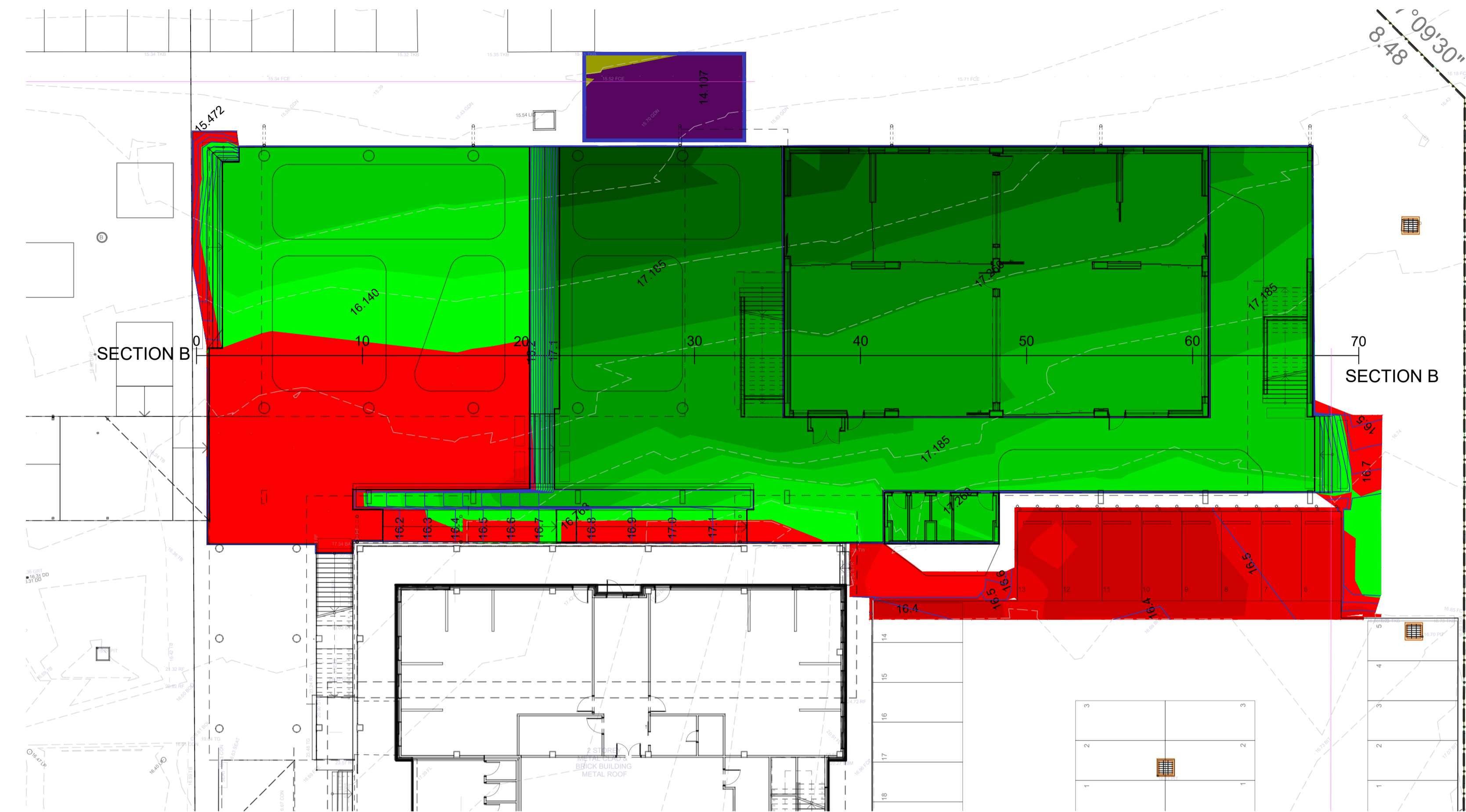
SCALES as noted @ A1 DATE AUG' 2021

DRAWN LD	DESIGN MG	VERIFIED -	APPROVED -
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ISSUE P1 PROJECT No. 8252 DRAWING No. C.08A



LEGEND	
---	EXISTING SURFACE
---	BULK SURFACE



BULK EXCAVATION (11-12)

SCALE 1:200
NOTE:
TEMPORARY EXCAVATIONS SHALL NOT ENCR OACH INTO TREE PROTECTION AREA.
BUILDER TO PROVIDE TEMPORARY SHORING OR CONSTRUCT SOLDIER PILE WALL.

CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
-3.6	to -3.4	m
-3.4	to -3.2	m
-3.2	to -3.0	m
-3.0	to -2.8	m
-2.8	to -2.6	m
-2.6	to -2.4	m
-2.4	to -2.2	m
-2.2	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.4	m
-1.4	to -1.3	m
-1.3	to -1.2	m
-1.2	to -1.0	m
-1.0	to -0.8	m
-0.8	to -0.6	m
-0.6	to -0.4	m
-0.4	to -0.2	m
-0.2	to 0.0	m

CUT AND FILL DEPTH RANGE		
Lower_value	Upper_value	Colour
0.0	to 0.2	m
0.2	to 0.4	m
0.4	to 0.6	m
0.6	to 0.8	m
0.8	to 1.0	m
1.0	to 1.2	m
1.2	to 1.4	m
1.4	to 1.6	m
1.6	to 1.8	m
1.8	to 2.0	m

BULK EARTHWORKS NOTES:

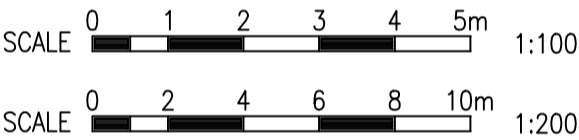
- BULK EARTHWORKS LEVELS ARE BASE ON THE FOLLOWING PAVEMENT THICKNESS AND ALLOWANCES:
 - 160mm BUILDING PLATFORM
 - 300mm CAR PARKING
 - 275mm COURTS
 - 210mm FOOTPATH
- THE EXISTING GROUND SURFACE IS NOT LOWERED TO ACCOUNT FOR ANY TOPSOIL/ VEGETATION OR EXISTING PAVEMENTS. STRIPPING VOLUME ASSESSMENT TO BE MADE BY CONTRACTOR.
- BULKING FACTOR OF 1.0 WAS USED FOR BOTH CUT & FILL.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED WORKS SUCH AS FOOTINGS, SET DOWN, LIFT PITS, SERVICE TRENCHES & STORMWATER/SUBSOIL TRENCHES, TEMP CONSTRUCTION PLATFORMS, STABILISATION, TEMP BATTERS, BENCHING, RETAINING WALL BACKFILL, REMOVAL OF HAZARDOUS MATERIAL OR TEMPORARY SEDIMENT BASINS, OR SOFT EXISTING UNSUITABLE MATERIAL, UPPER CARPARK OSD, PIPE AND PIT OSDs AND THE LOWER CARPARK PAVEMENT FOR ABOVE GROUND LEVELS TO BE ACHIEVED. DETAILED SUBGRADE EXCAVATION IS REQUIRED IN VICINITY OF OSD 2.
- THIS PLAN IS PREPARED FOR INFORMATION PURPOSES ONLY AND IS INDICATIVE ONLY. EARTH WORKS CONTRACTOR IS TO VERIFY ALL LEVELS AND QUANTITIES AND PERFORM THEIR OWN BULK EARTHWORK ASSESSMENT. SOME FILL AND CUT HAS BEEN SHOWN BASED ON ASSUMED LANDSCAPE PROFILING AND IS THE RESPONSIBILITY OF OTHERS

LEGEND

---	EXISTING CONTOUR
---	BULK CONTOUR
23.3	BULK CONTOUR HEIGHT

TOTAL CUT VOLUME	166.87 M3
TOTAL FILL VOLUME	1002.13 M3
EXCESS OF FILL OVER CUT	835.27 M3

NOTE: VOLUMES ARE FROM EXISTING TO BULK EARTHWORKS LEVEL
NO ALLOWANCE FOR THE REMOVAL OF TOPSOIL



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ISSUE	DESCRIPTION	APPROVED	DATE
P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
P3	FOR DA APPROVAL	-	26-05-22
P2	FOR DA APPROVAL	-	18-02-22
P1	FOR DA APPROVAL	-	22-11-21

CLIENT



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tel: (02) 9555 7230 email : office@birzulisassociates.com
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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
BULK EXCAVATION PLAN (11-12)
& SECTIONS

SCALES as noted @ A1 DATE AUG' 2021

DRAWN LD	DESIGN MG	VERIFIED -	APPROVED -
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ISSUE P5	PROJECT No. 8252	DRAWING No. C.09
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16	CHAINAGE
APPROX. EXISTING SURFACE	
BULK LEVEL	
CHANGED LEVELS	

0	10	20	30	40
16.159	16.173	16.182	16.273	16.339
16.159	16.140	16.140	17.185	17.260
0.000	-0.033	-0.042	+0.912	+0.921

Section B

16	CHAINAGE
APPROX. EXISTING SURFACE	
BULK LEVEL	
CHANGED LEVELS	

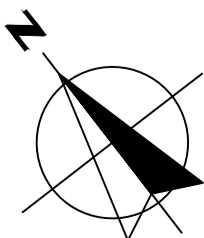
40	50	60	70
16.339	16.472	16.560	16.646
17.260	17.260	17.260	16.646
+0.921	+0.788	+0.700	0.000

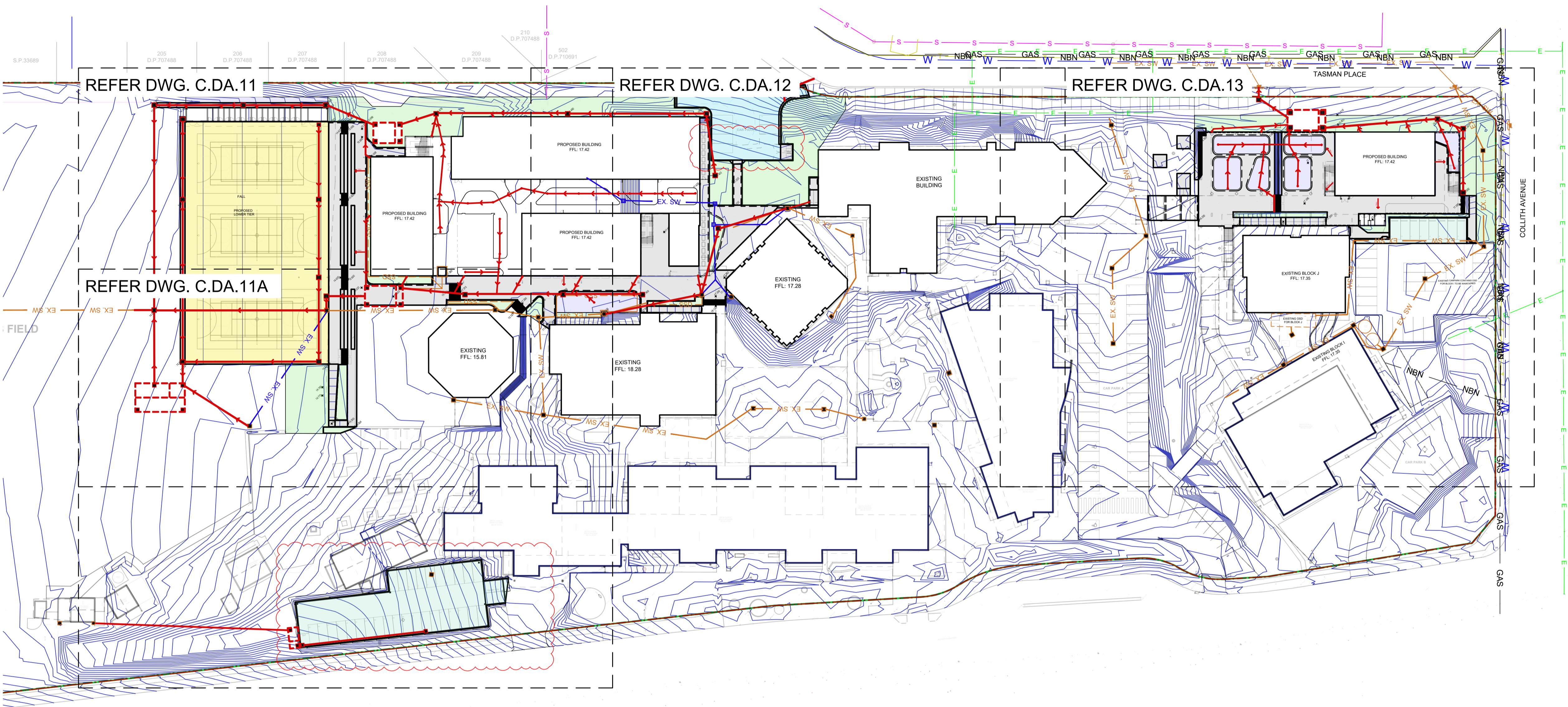
Section B

SECTION B

SCALE 1:100

LEGEND	
---	EXISTING SURFACE
---	BULK SURFACE



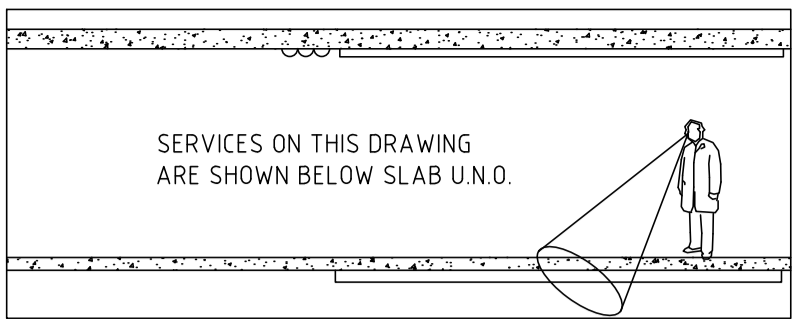


CIVIL WORKS CONCEPT OVERALL PLAN

SCALE 1:600

NOTE:

- ROOF DRAINAGE BY OTHERS
- ALL uPVC STORMWATER DRAINAGE LINES SHALL BE 'CLASS SH' SEWER GRADE UNLESS NOTED OTHERWISE
- UNLESS NOTED OTHERWISE DOWNPIPES SHALL CONNECT TO THE MAIN STORMWATER LINE DOWNSTREAM USING 150mm DIAMETER uPVC LINES WITH MINIMUM 1% FALL.
- UNLESS NOTED OTHERWISE GRATED DRAINS SHALL BE 150x150 AND CONNECTED TO THE DOWNSTREAM (NON-CHARGED) STORMWATER SYSTEM



LEGEND

AAPT LINE	— AAPT —	AAPT	— AAPT —
COMMS LINE	— C —	C	— C —
ELECTRICAL LINE	— E —	E	— E —
FIRE LINE	— F —	F	— F —
GAS LINE	— GAS —	GAS	— GAS —
WATER LINE	— W —	W	— W —
NBN LINE	— NBN —	NBN	— NBN —
OPTUS LINE	— OP —	OP	— OP —
TPG LINE	— TPG —	TPG	— TPG —
TELECOMMUNICATION LINE	— T —	T	— T —
OVERFLOW PATH	— OFP —	OFP	— OFP —
SEWER LINE	— S —	S	— S —
SEWER EXISTING LINE	— EX.S —	EX.S	— EX.S —
SUBSOIL DRAINAGE LINE	— SSD —	SSD	— SSD —
SITE BOUNDARY	— — —		— — —
DEMOLISHED	— — —		— — —
EXISTING STORMWATER LINE	— EX. SW —	EX. SW	— EX. SW —
PROPOSED CONTOUR	— — —		— — —
GRATED STORMWATER PIT		DOWN PIPE	• DP
EXISTING STORMWATER PIT		EXISTING DOWN PIPE	• Ex.DP
KERB INLET PIT			
TELEPHONE PIT		NEW GRATED DRAIN	
FLOOR WASTE	• FW	CLEAR OUT	• CO
	DENOTES CONCRETE PAVEMENT		DENOTES EXISTING CONCRETE
	DENOTES GARDENTURF		DENOTES GAMES COURT
	DENOTES CONCRETE CARPARK		DENOTES BITUMEN CARPARK
	DENOTES ARTIFICIAL TURF		

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ISSUE	DESCRIPTION	APPROVED	DATE
P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
P3	FOR DA APPROVAL	-	26-05-22
P2	FOR DA APPROVAL	-	18-02-22
P1	FOR DA APPROVAL	-	22-11-21

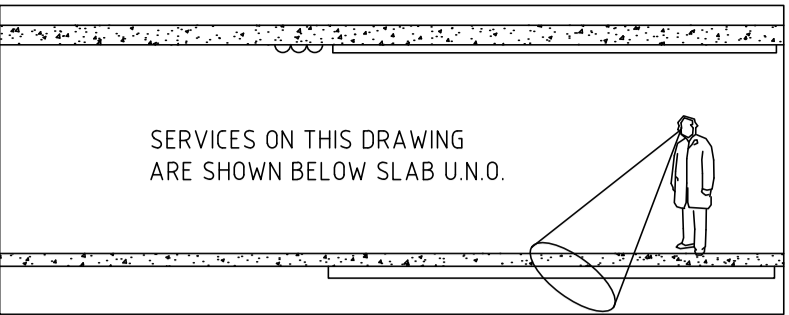
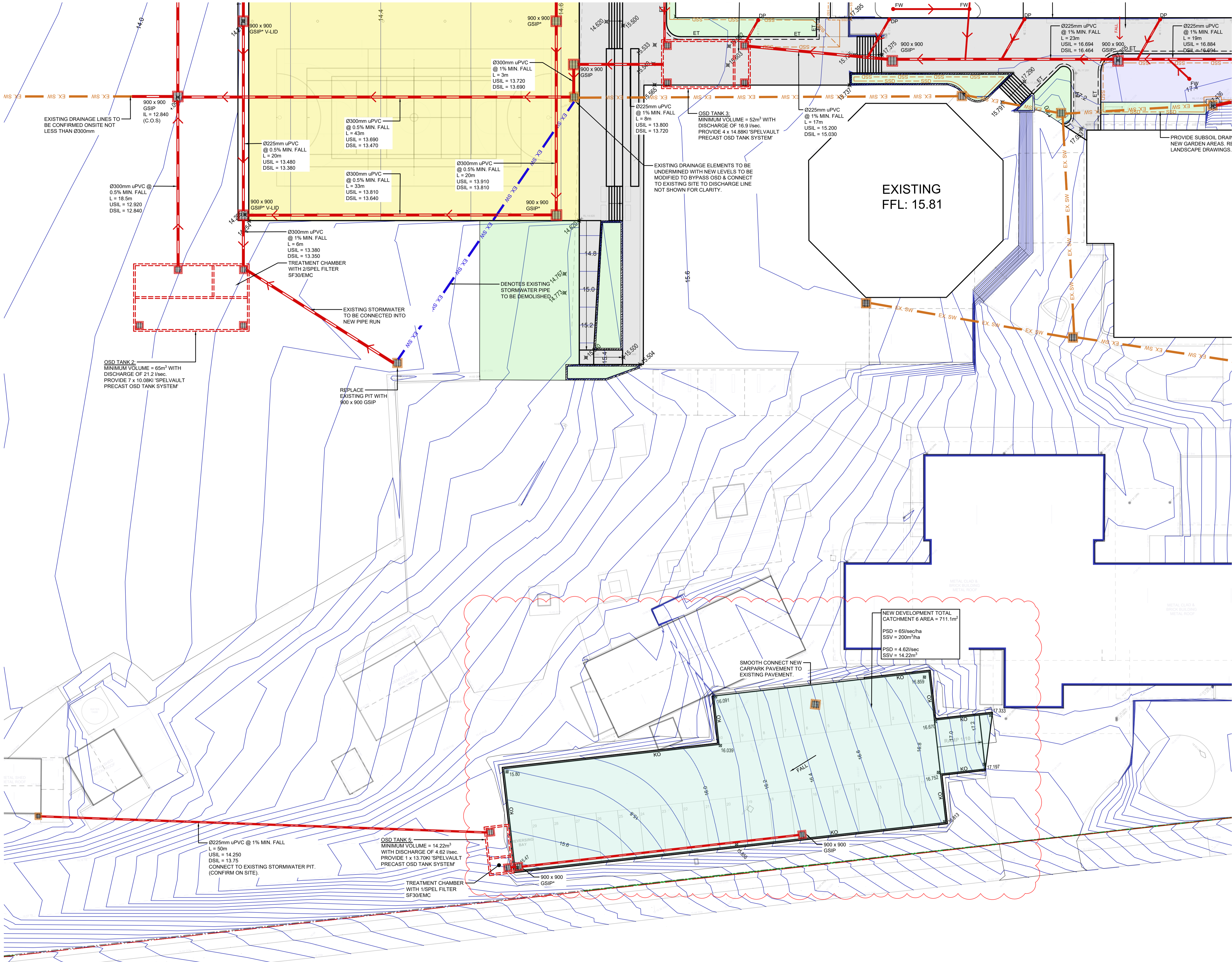


PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
CIVIL WORKS CONCEPT
OVERALL PLAN

SCALES	as noted @ A1	DATE	AUG' 2021
DRAWN	DESIGN	VERIFIED	APPROVED
JM	MG	-	-
ISSUE	PROJECT No.	DRAWING No.	
P5	8252	C.DA.10	

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LEGEND

AAPT LINE	— AAPT —	AAPT	— AAPT —
COMMS LINE	— C —	C	— C —
ELECTRICAL LINE	— E —	E	— E —
FIRE LINE	— F —	F	— F —
GAS LINE	— GAS —	GAS	— GAS —
WATER LINE	— W —	W	— W —
NBN LINE	— NBN —	NBN	— NBN —
OPTUS LINE	— OP —	OP	— OP —
TPG LINE	— TPG —	TPG	— TPG —
TELECOMMUNICATION LINE	— T —	T	— T —
OVERFLOW PATH	— OFP —	OFP	— OFP —
SEWER LINE	— S —	S	— S —
SEWER EXISTING LINE	— EX.S —	EX.S	— EX.S —
SUBSOIL DRAINAGE LINE	— SSD —	SSD	— SSD —
SITE BOUNDARY	— —		— —
DEMOLISHED	— —		— —
EXISTING STORMWATER LINE	— EX. SW —	EX. SW	— EX. SW —
PROPOSED CONTOUR	— —		— —
GRATED STORMWATER PIT		DOWN PIPE	• DP
EXISTING STORMWATER PIT		EXISTING DOWN PIPE	• Ex.DP
KERB INLET PIT			
TELEPHONE PIT		NEW GRATED DRAIN	
FLOOR WASTE	• FW	CLEAR OUT	• CO
	DENOTES CONCRETE PAVEMENT		DENOTES EXISTING CONCRETE
	DENOTES GARDEN/TURF		DENOTES GAMES COURT
	DENOTES CONCRETE CARPARK		DENOTES BITUMEN CARPARK
	DENOTES ARTIFICIAL TURF		

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P2	REVISION AS CLOUDED FOR DA APPROVAL	11-11-22
P1	DESCRIPTION	16-09-22
ISSUE	APPROVED	DATE



PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
CIVIL WORKS CONCEPT PLAN -
SHEET 1A

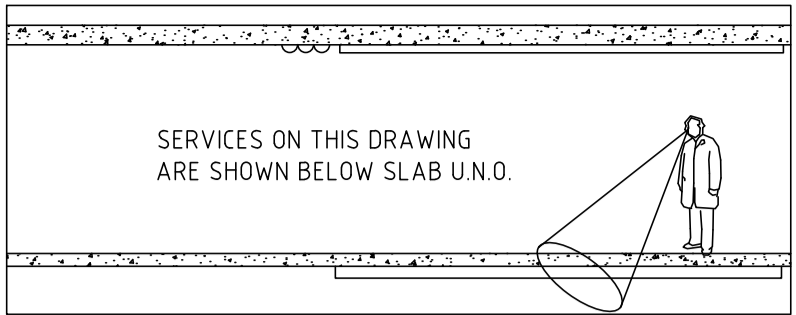
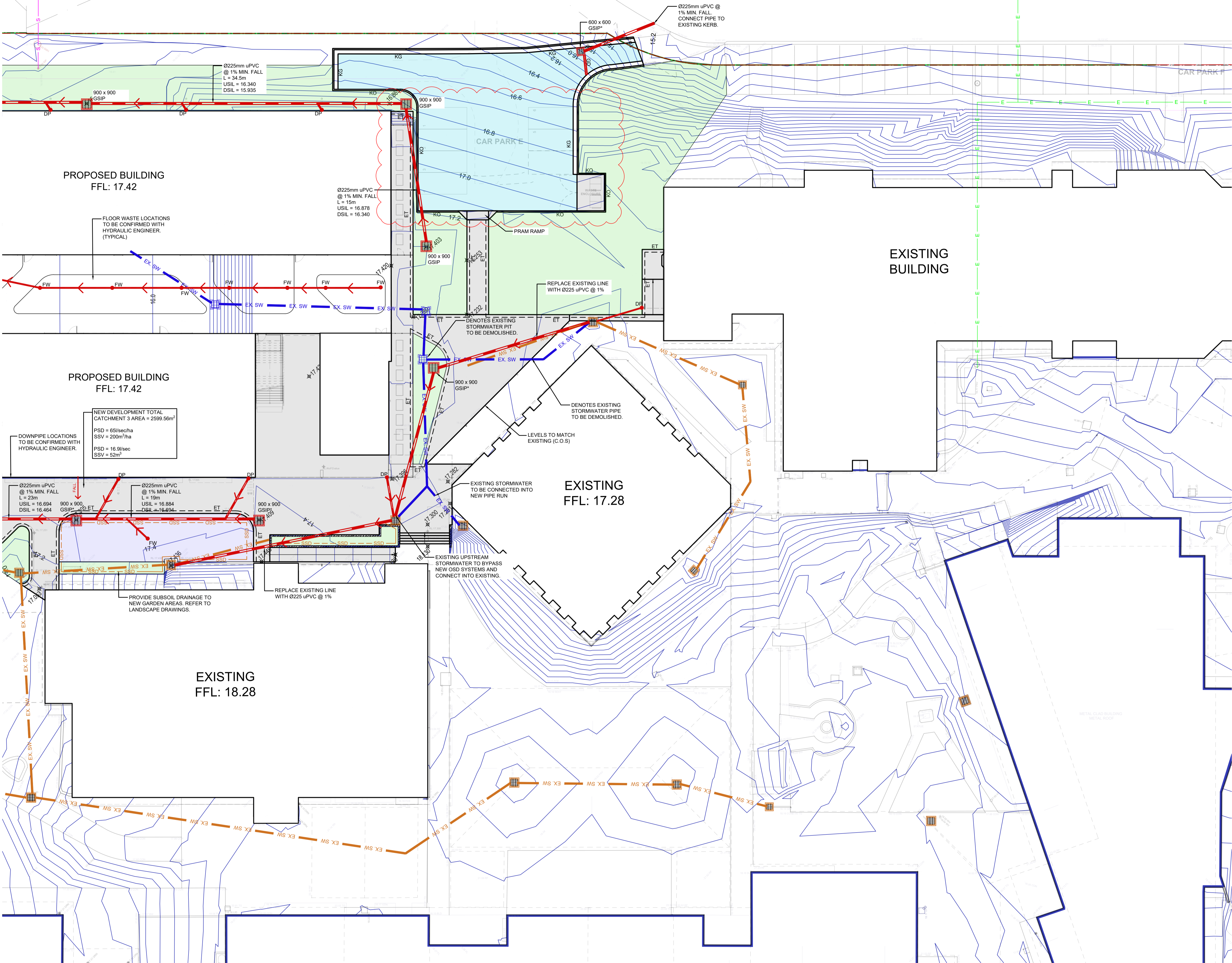
SCALES	as noted @ A1	DATE	AUG' 2021
DRAWN	DESIGN	VERIFIED	APPROVED
JM	MG	-	-
ISSUE	PROJECT No.	DRAWING No.	
P2	8252	C.DA.11A	

CIVIL WORKS CONCEPT PLAN - SHEET 1A

SCALE 1:200

NOTE:

- ROOF DRAINAGE BY OTHERS
- ALL uPVC STORMWATER DRAINAGE LINES SHALL BE 'CLASS SH' SEWER GRADE UNLESS NOTED OTHERWISE
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LEGEND

AAPT LINE	— AAPT —	AAPT	— AAPT —
COMMS LINE	— C —	C	— C —
ELECTRICAL LINE	— E —	E	— E —
FIRE LINE	— F —	F	— F —
GAS LINE	— GAS —	GAS	— GAS —
WATER LINE	— W —	W	— W —
NBN LINE	— NBN —	NBN	— NBN —
OPTUS LINE	— OP —	OP	— OP —
TPG LINE	— TPG —	TPG	— TPG —
TELECOMMUNICATION LINE	— T —	T	— T —
OVERFLOW PATH	— OFP —	OFP	— OFP —
SEWER LINE	— S —	S	— S —
SEWER EXISTING LINE	— EX.S —	EX.S	— EX.S —
SUBSOIL DRAINAGE LINE	— SSD —	SSD	— SSD —
SITE BOUNDARY	— —		— —
DEMOLISHED	— —		— —
EXISTING STORMWATER LINE	— EX. SW —	EX. SW	— EX. SW —
PROPOSED CONTOUR	— —		— —
GRATED STORMWATER PIT	— —		— —
DOWN PIPE	— —		— —
EXISTING STORMWATER PIT	— —		— —
EXISTING DOWN PIPE	— —		— —
KERB INLET PIT	— —		— —
TELEPHONE PIT	— —		— —
FLOOR WASTE	— —		— —
CLEAR OUT	— —		— —
NEW GRATED DRAIN	— —		— —
DENOTES CONCRETE PAVEMENT	— —		— —
DENOTES EXISTING CONCRETE	— —		— —
DENOTES GARDENTURF	— —		— —
DENOTES GAMES COURT	— —		— —
DENOTES CONCRETE CARPARK	— —		— —
DENOTES BITUMEN CARPARK	— —		— —
DENOTES ARTIFICIAL TURF	— —		— —

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ISSUE	DESCRIPTION	APPROVED	DATE
P5	REVISION AS CLOUDED	-	11-11-22
P4	FOR DA APPROVAL	-	16-09-22
P3	FOR DA APPROVAL	-	26-05-22
P2	FOR DA APPROVAL	-	18-02-22
P1	FOR DA APPROVAL	-	22-11-21

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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
CIVIL WORKS CONCEPT PLAN -
SHEET 2

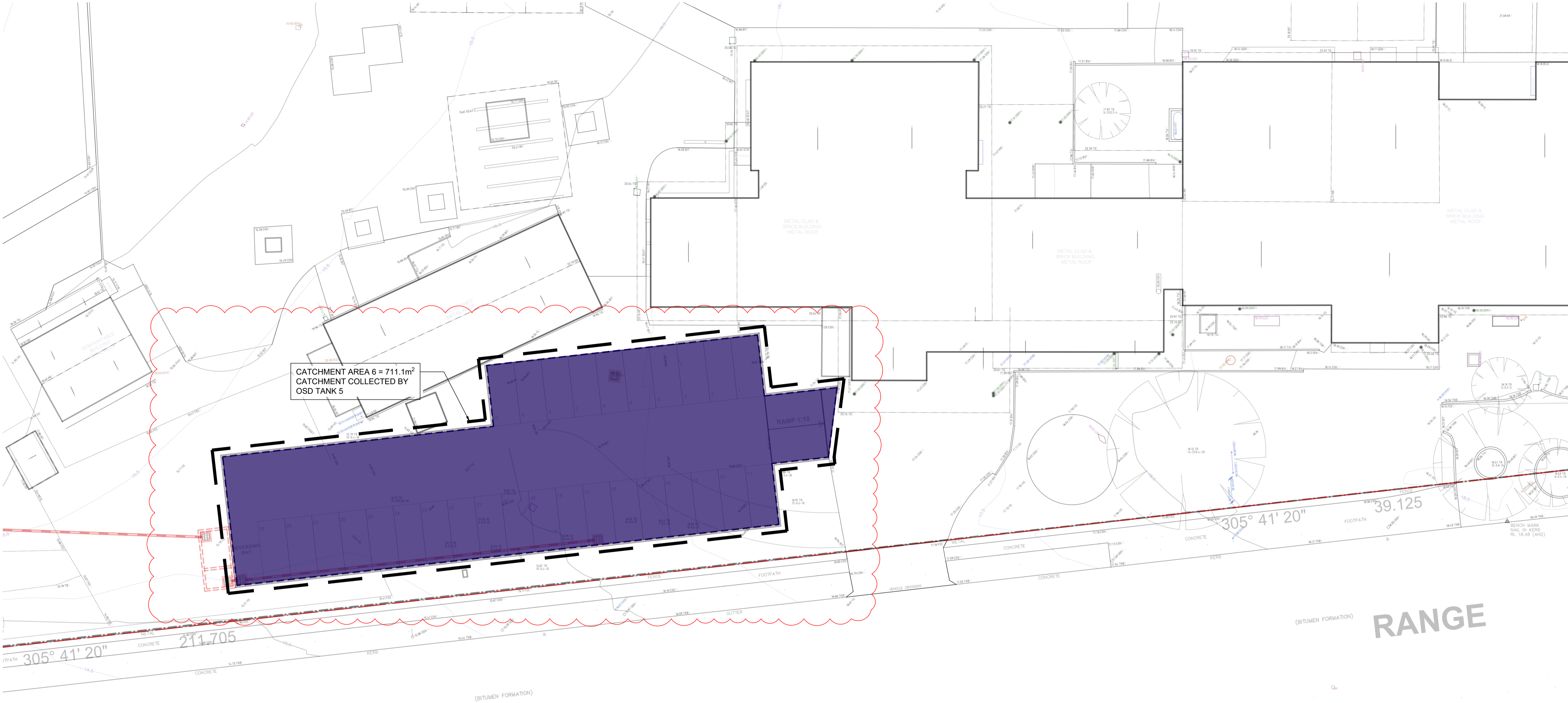
SCALES	as noted @ A1	DATE	AUG' 2021
DRAWN	DESIGN	VERIFIED	APPROVED
JM	MG	-	-
ISSUE	PROJECT No.	DRAWING No.	
P5	8252	C.DA.12	

CIVIL WORKS CONCEPT PLAN - SHEET 2

SCALE 1:200

NOTE:

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LEGEND

ROOF CATCHMENT



PAVEMENT CATCHMENT



LANDSCAPE CATCHMENT



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P2	REVISION AS CLOUDED	-	11-11-22
P1	FOR DA APPROVAL	-	16-09-22
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT



ARCHITECT

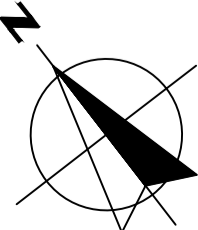


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PROJECT
BEDE POLDING COLLEGE,
ALTERATIONS & ADDITIONS
20-22 RIFLE RANGE ROAD, SOUTH WINDSOR

TITLE
CATCHMENT PLAN - SHEET 03

SCALES as noted @ A1			DATE AUG' 2021
DRAWN JM	DESIGN MG	VERIFIED -	APPROVED -
ISSUE P2	PROJECT No. 8252	DRAWING No. C.DA.32	



CATCHMENT PLAN - SHEET 03
SCALE 1:200