

BULK EARTHWORKS NOTES:

- BULK EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS3798 & UNDER SUPERVISION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- 2. SILT FENCE AND/OR HAY BAILS AND PICKETS TO BE ERECTED IMMEDIATELY DOWNSTREAM OF SITE REGRADING AREA.
- REGRADE AREAS TO BE STRIPPED OF TOPSOIL PRIOR TO COMMENECEMENT OF BULK EARTHWORKS.
- 4. ALL TOPSOIL TO BE REMOVED BY EITHER EXCAVATOR OR SCRAPER AND MOVED DIRECTLY INTO STOCKPILE LOCATION.
- 5. STOCKPILE LOCATIONS TO BE DETERMINED ONSITE BY THE SUPERINTENDENT.
- 6. STOCKPILE AREA TO BE FULLY FENCED WITH SILT PROOF FABRIC AT ALL TIMES. 7. STOCKPILES ARE TO BE REMOVED AS SOON AS PRACTICABLE AND SITES REINSTATED
- IMMEDIATELY. 8. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE REINSTATED AND SEEDED
- IMMEDIATELY. 9. SILT FENCES AND HAY BAILING TO BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT AND
- MAINTAINED AT ALL TIMES.
- 10. WHERE PRACTICAL CATCH DRAINS OR SMALL LEVIES ARE TO BE CONSTRUCTED TO MINIMISE EXTERNAL RUNOFF ENTERING THE SITE.
- 11. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL COMPLETE REHABILITATION IS ACHIEVED.
- 12. CONTROL CLEAN WATER FROM ABOVE THE SITE, THROUGH THE SITE AND AROUND THE SITE.
- 13. KEEP CLEAN WATER SEPARATE FROM DIRTY WATER.

14. HYDROSEED REGRADED AREAS WITH STRAW MULCH UPON COMPLETION

REVISION		-		General Notes
REV No.	COMMENTS	DATE	INIT.	
00	DA ISSUE	29.04.2020	MA	Do not scale this drawing. The drawing shows design intent only. All dimensions to be checked on site prior to
				construction or production. Construction details to be confirmed by contractor/manufacturer. This is a
				computer generated drawing. Do not amend by hand. Figure dimensions are
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				discrepancies and omissions on site must be reported to the architect for their
	1			comments or approval prior to commencing work.

NOTE:

20000190/1.

2020.

1. SITE HAS BEEN CLEARED AND LEVELLED UNDER CROWN DA 74/2019 AND CROWN CERTIFICATE №.

2. SURVEY BASED ON SITE PRIOR TO WORKS IN



PROJECT: **INVERELL POLICE STATION**

LOCATION: **109 OTHO STREET, INVERELL**

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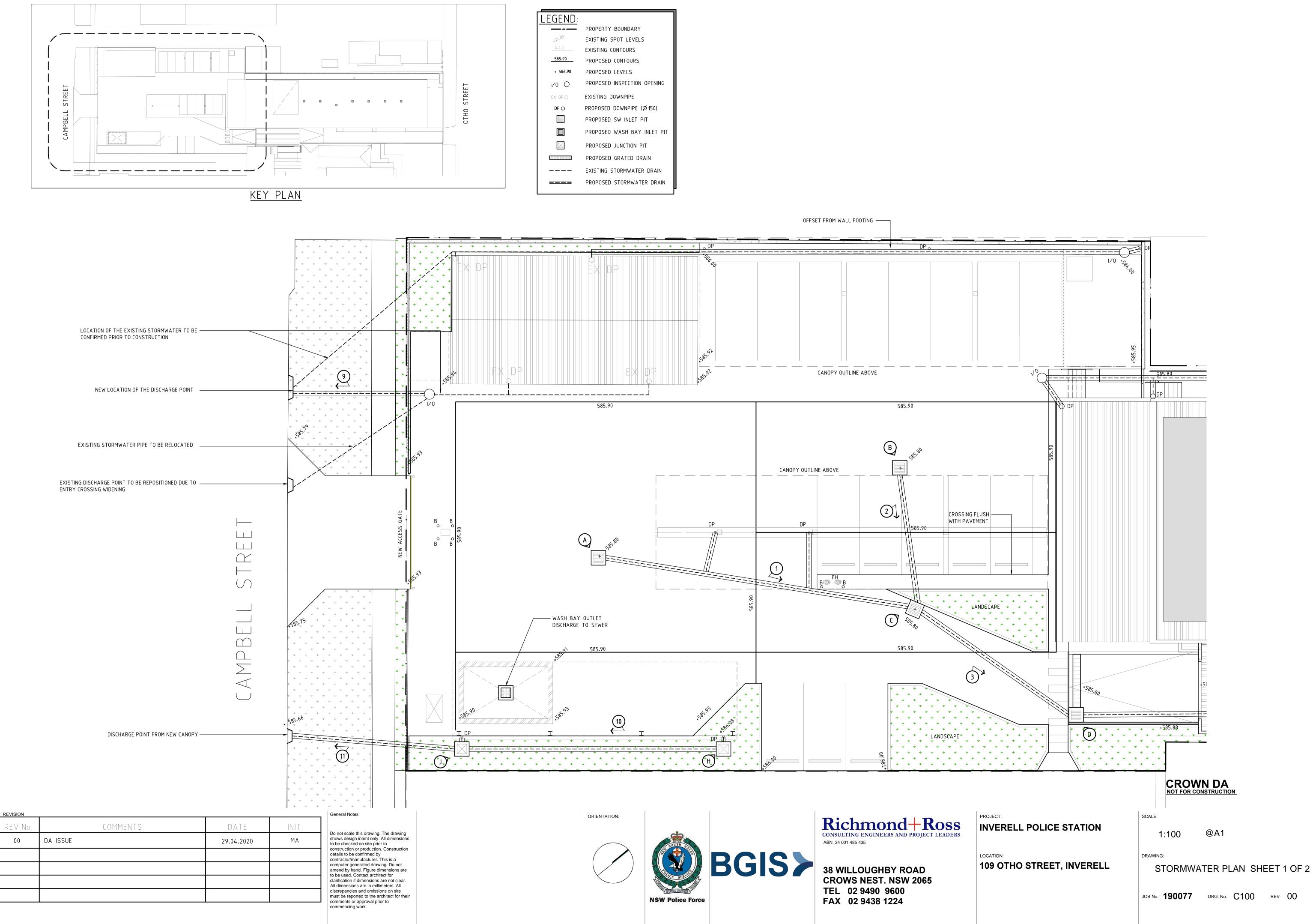
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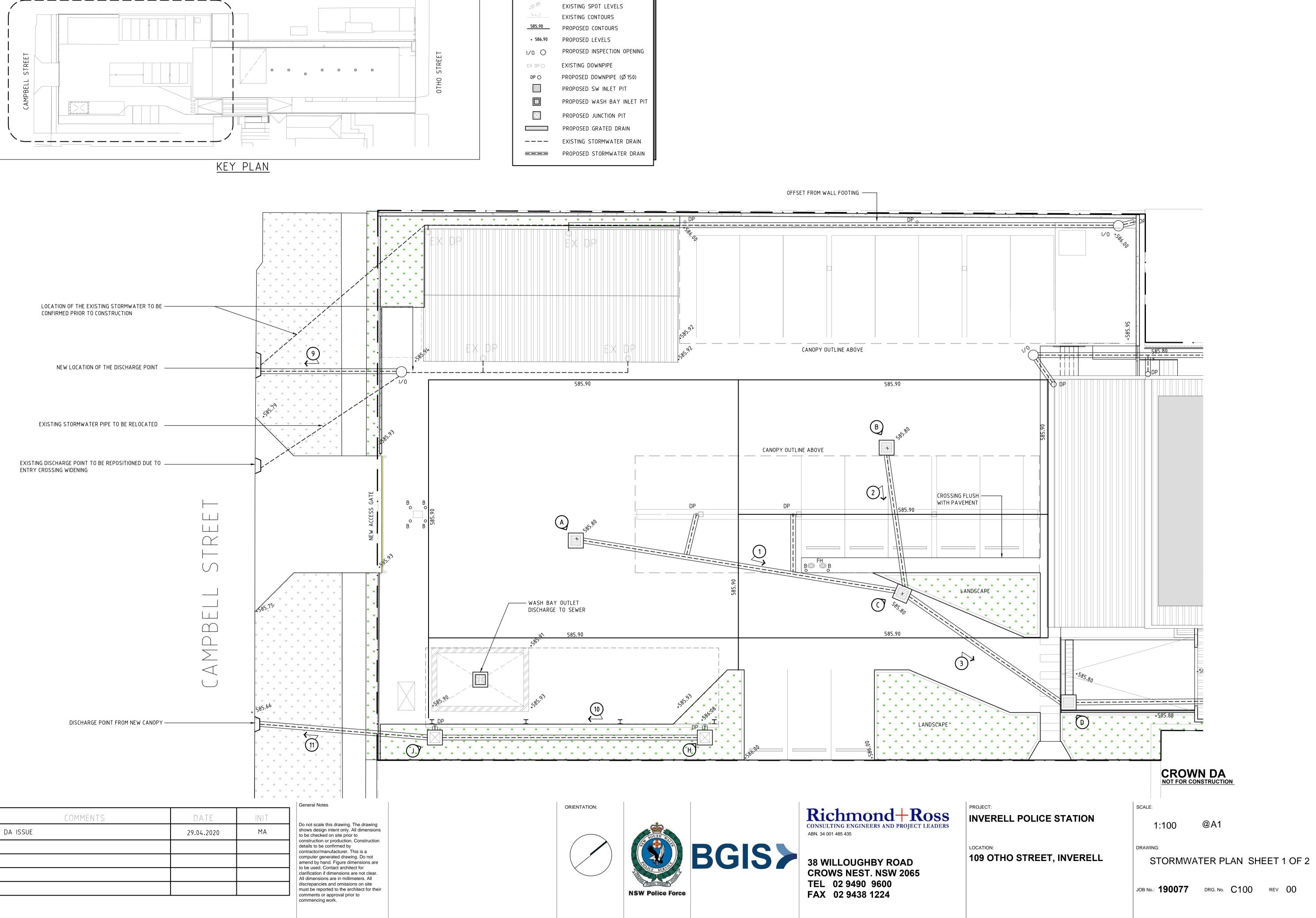
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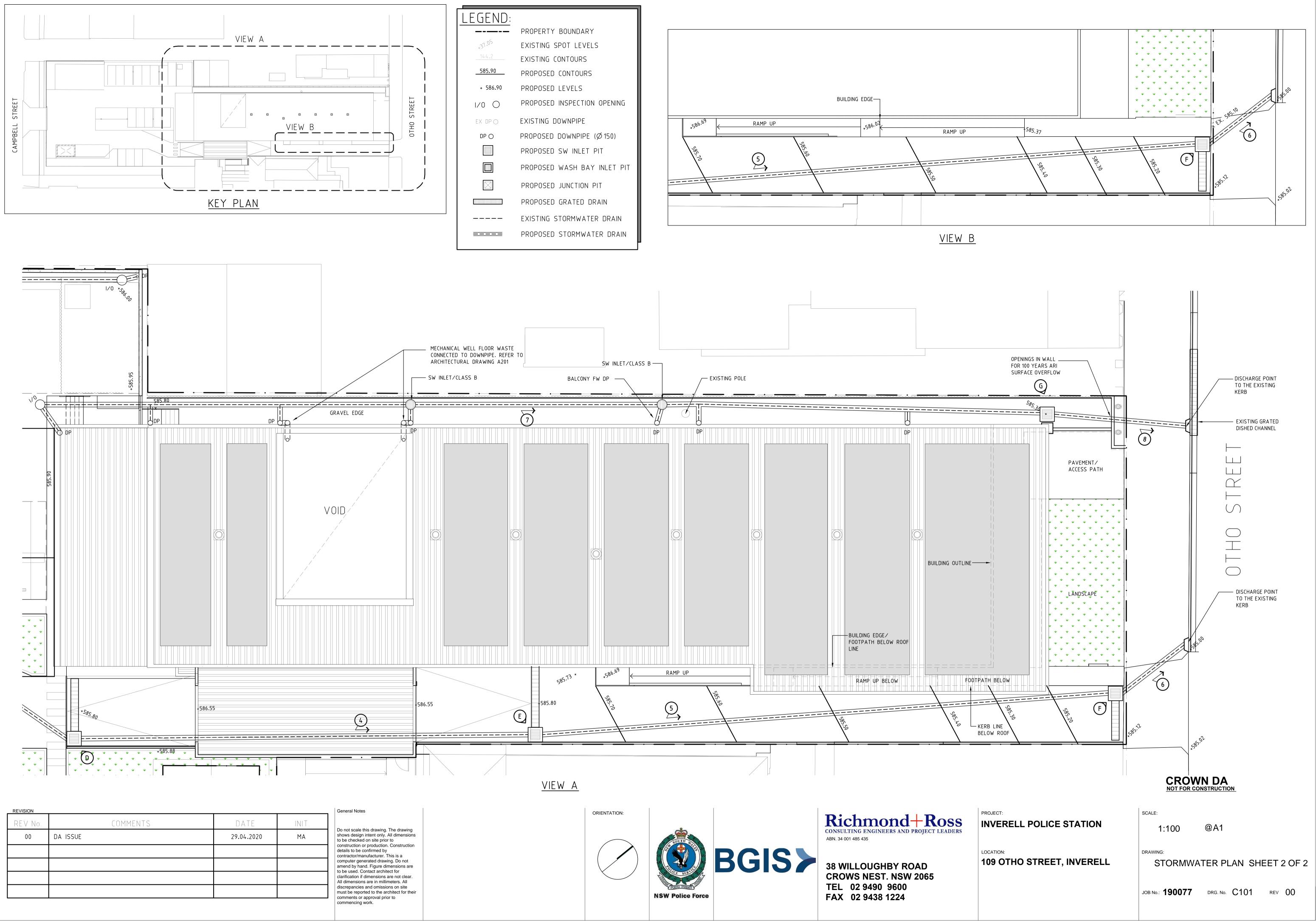
BULK EARTHWORKS PLAN

JOB No.: **190077** DRG. No. **C010** REV **00**

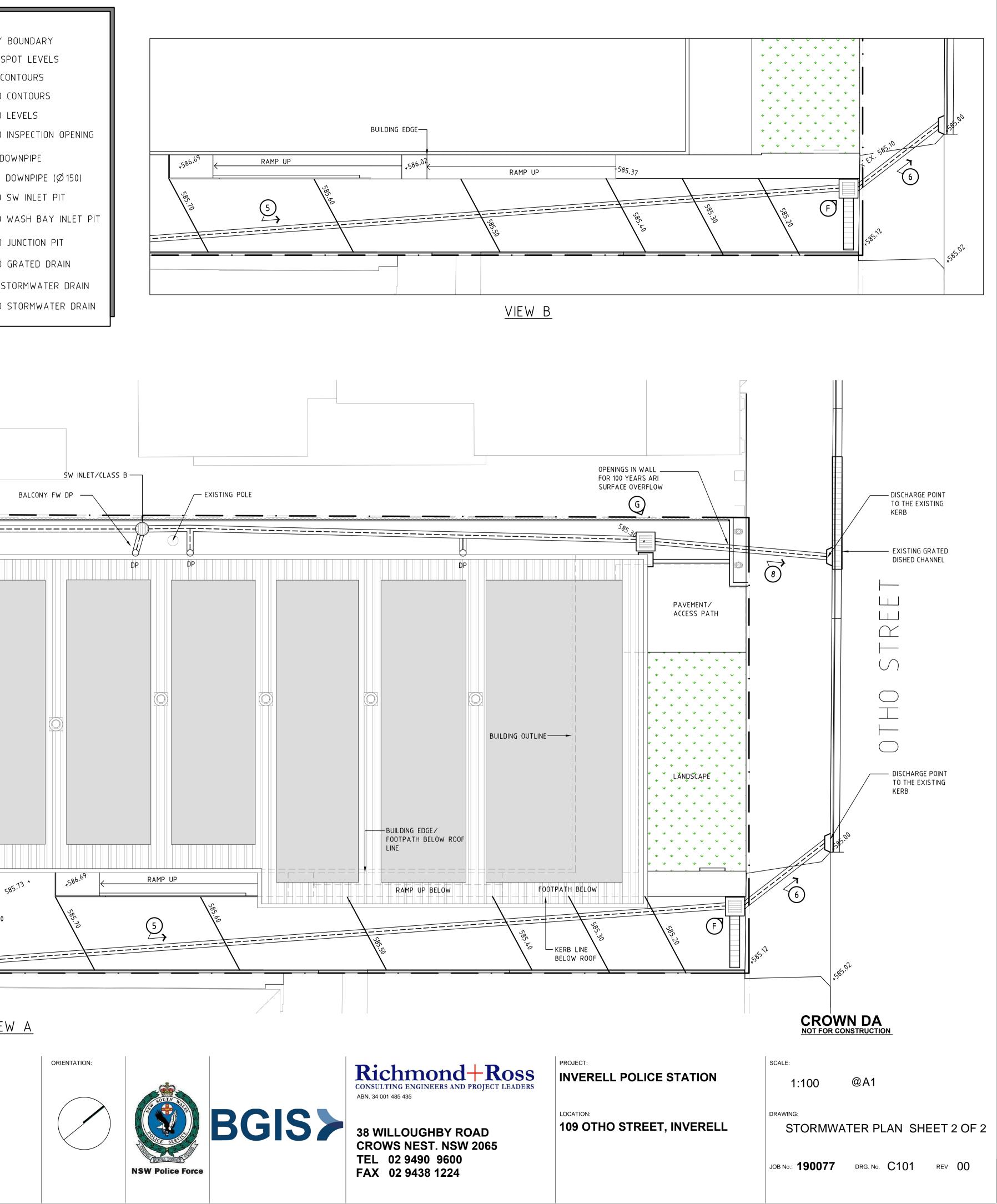








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IND:	
	PROPERTY BOUNDARY
15	EXISTING SPOT LEVELS
.2	EXISTING CONTOURS
.90	PROPOSED CONTOURS
86.90	PROPOSED LEVELS
\bigcirc	PROPOSED INSPECTION OPENING
РO	EXISTING DOWNPIPE
0	PROPOSED DOWNPIPE (Ø150)
	PROPOSED SW INLET PIT
	PROPOSED WASH BAY INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED GRATED DRAIN
	EXISTING STORMWATER DRAIN
	PROPOSED STORMWATER DRAIN

STORMWATER DISPOSAL PHILOSOPHY

- 1. COLLECT ALL SITE RUNOFF FROM SURFACE GRADES, SUMPS AND UNDERGROUND DRAINS PRIOR TO DISCHARGE TO KERB OUTLETS.
- 2. ROOF RUNOFF TO BE DIRECTED INTO SITE STORMWATER SYSTEM.
- 3. ON-SITE UNDERGROUND DRAINAGE HAS BEEN DESIGNED FOR 1 IN 20 YEAR FLOWS, TO CONNECT INTO COUNCIL SYSTEM VIA EXISTING AND NEW OUTFALLS.

GENERAL NOTES

- 1. FIT STEP IRONS TO PITS DEEPER THAN 1000.
- 2. ALL GRATES TO BE WELDED CONSTRUCTION SUPPLIED COMPLETE WITH H.D. BOLTS AND FRAMES. PROVIDE FLATTENED EXPANDED METAL TO ALL GRATES.
- 3. ALL PIT COVERS & GRATES TO BE SECURELY BOLTED DOWN.
- 4. ALL UPVC PIPES TO HAVE SOLVENT WELDED JOINTS.

STORMWATER NOTES

- 1. THIS IS A STORMWATER DRAINAGE PLAN ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT INFORMATION.
- 2. ALL DRAINAGE LAYOUTS, LEVELS & DETAILS ARE DIAGRAMMATIC AND INDICATIVE ONLY. NOTE ONLY MAJOR LINES ARE SHOWN.
- 3. ALL PIPES TO BE 150 DIA UPVC LAID AT 1.0% MIN GRADE. UPVC PIPES TO BE SOLVENT WELDED JOINTS U.N.O.
- 4. ALL GRATED DRAINS TO HAVE BASE GRADED 1.0% MIN WITH HEEL GUARD TYPE GRATES.
- 5. IT IS THE BUILDERS RESPONSIBILITY TO LAY ALL PIPES IN ACCORDANCE WITH ALL RELEVANT AUTHORITY REQUIREMENTS (EG. COUNCIL, EPA, ETC.).

STORMWATER RUNOFF CALCULATIONS

USING FORMULA Q = 0.000278 CAI WHERE Q

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- = DISCHARGE IN LITRES PER SECOND
- = A RUNOFF COEFFICIENT
- = CATCHMENT AREA IN SQ.M.
- = RAINFALL INTENSITY IN MILLIMETRES PER HOUR ²⁰ | ₅
 - = 180 MM/HR FOR 20 YEAR RETURN PERIOD

LINE	AREA OF CATCHMENT (SQM)	FLOW FROM AREA (l⁄s)	TOTAL FLOW IN THE PIPE (l/s)	SIZE MIN. (mm)
1	340	16.16	16.16	Ø 150@1:180
2	200	9.51	9.51	Ø 150@1:180
3	260	12.36	38.03	Ø 225@1:200
4	118	5.82	43.85	Ø 225@1:200
5	84	4.15	48.00	Ø 225@1:200
6	126	5.99	53.99	Ø 225@1:140
7	840	42.00	42.00	Ø 225@1:200
8	-	-	42.00	Ø 225@1:200
9	310	15.51	15.51	Ø 150@1:100
10	63	3.30	3.30	Ø 150@1:100
11	-	-	3.30	Ø 150@1:100

LINE SCHEDULE

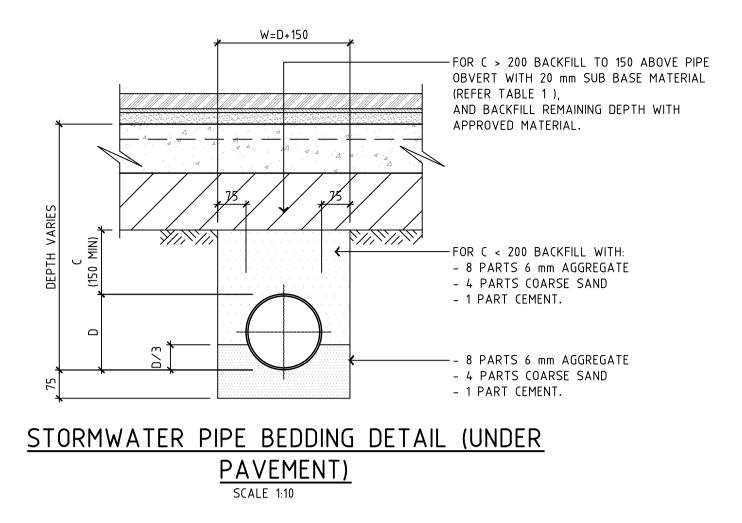
TAG	UPSTREAM INVERT	SIZE	MATERIAL	LENGTH (m)	GRADE	DOWNSTREAM INVERT	NOTES
1	585.35	150	UPVC	18.0	1:180	585.25	
2	585.35	150	UPVC	7.0	1:170	585.25	
3	585.25	225	UPVC	11.0	1:183	585.19	
4	585.19	225	UPVC	28	1:200	585.05	
5	585.05	225	UPVC	32.0	1:213	585.90	
6	585.90	200x100	RHS	9.0	1:180	584.85	2xRHS
7	585.25	225	UPVC	56.5	1:157	584.90	
8	585.90	200x100	RHS	9.0	1:112	584.82	2xRHS
9	твс	200x100	RHS	8.0	ТВС	585.75	1xRHS
10	585.83	125x75	RHS	15.0	1:200	585.76	
11	585.76	125x75	RHS	10.0	1:100	585.66	1xRHS

PIT SCHEDULE

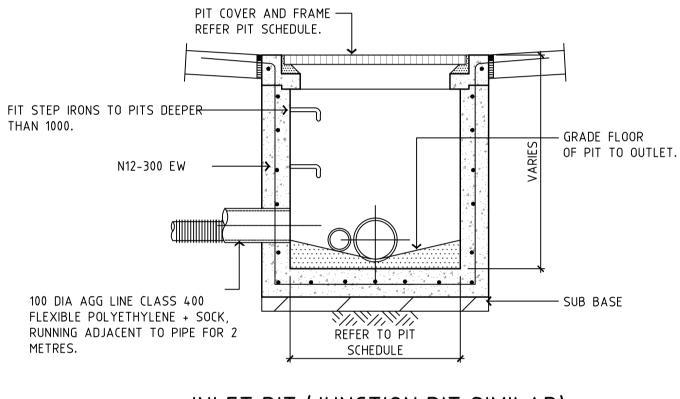
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TAG	ТҮРЕ	SIZE	RL TOP	IL	COVER
А	INLET	450x450	585.80	585.35	CLASS D
В	INLET	450x450	585.80	585.35	CLASS D
с	INLET	450x450	585.80	585.25	CLASS D
D	GRATED TRENCH + INLET	ACO S 100 K + 600×600	585.87	585.19	CLASS D
E	GRATED TRENCH + INLET	ACO S 100 K + 600×600	585.80	585.05	CLASS D
F	GRATED TRENCH + INLET	ACO S 100 K + 450x450	585.25	584.90	CLASS D
G	INLET	450×450	585.30	585.00	CLASS B
н	JUNCTION	350x350	586.08	585.83	CLASS B
J	JUNCTION	350x350	586.05	585.76	CLASS B

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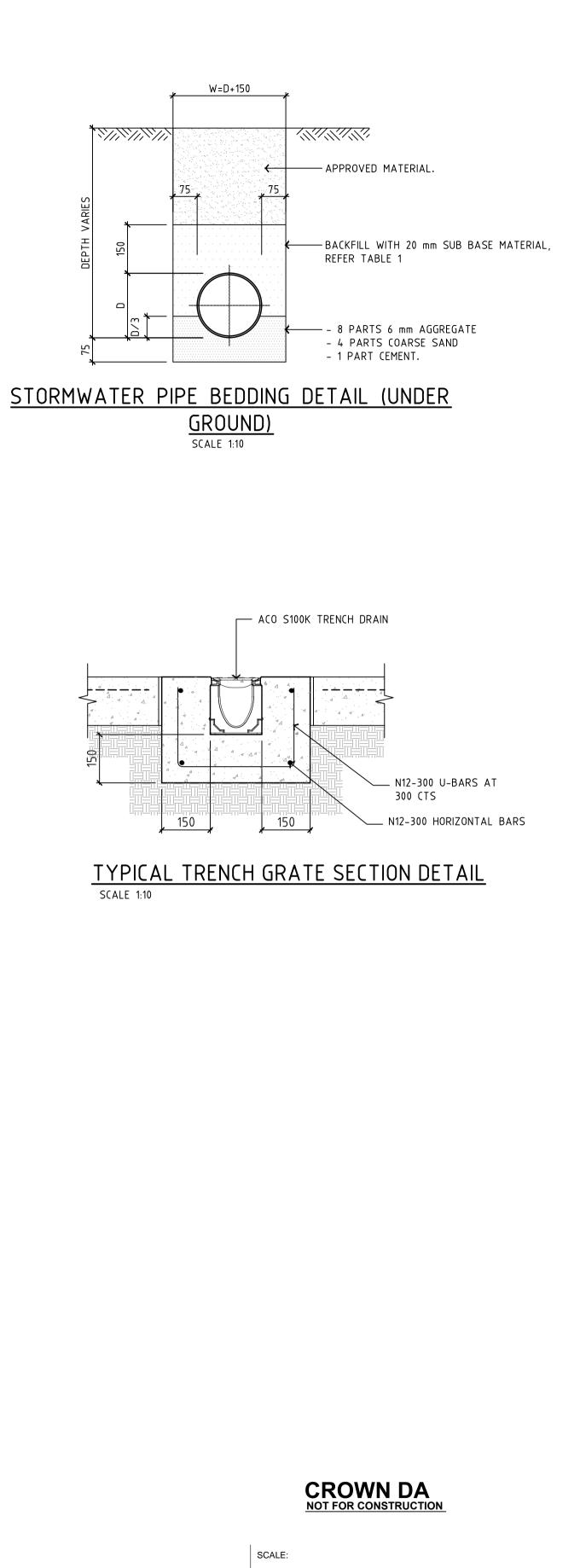
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PROJECT:



INVERELL POLICE STATION

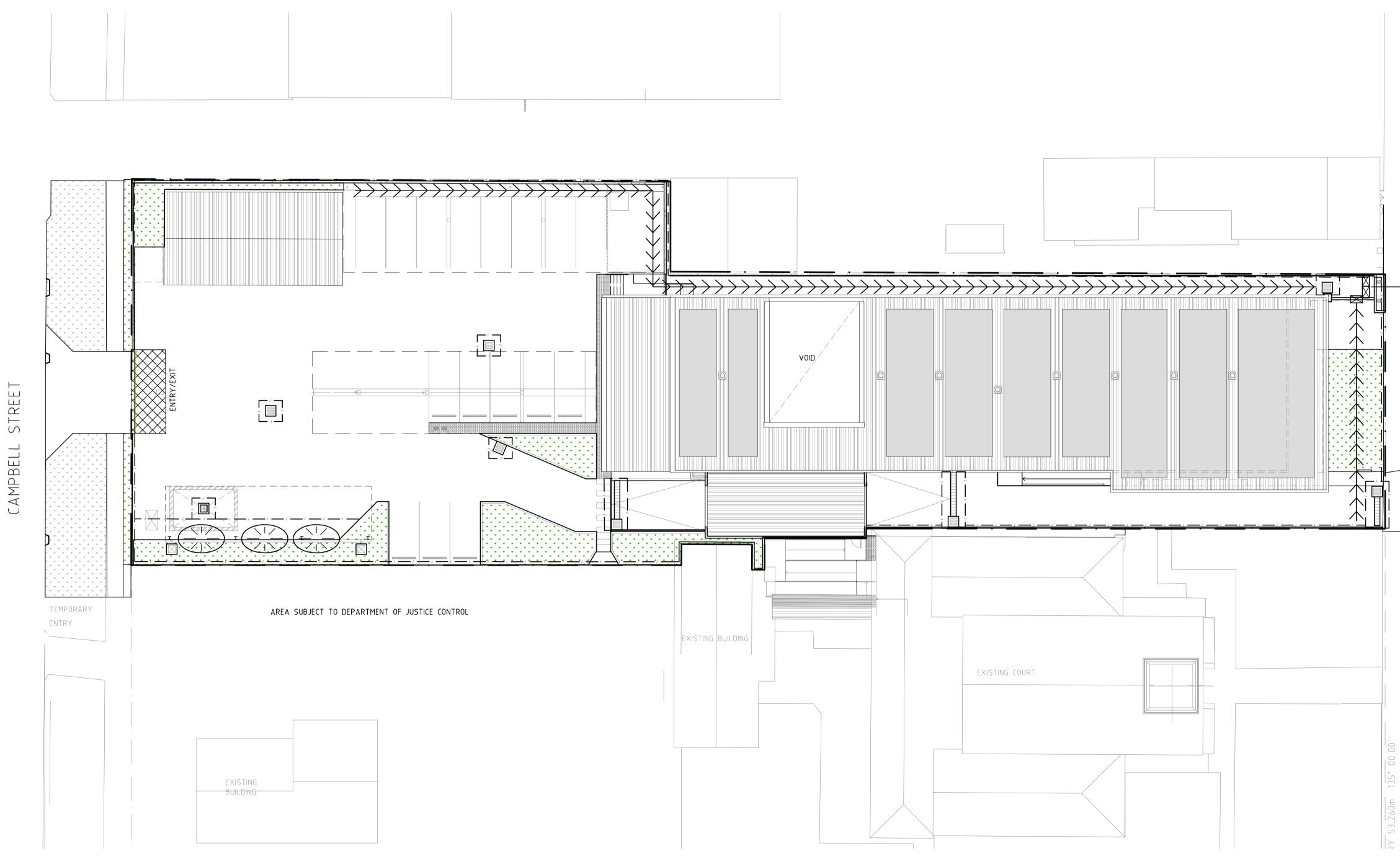
109 OTHO STREET, INVERELL

STORMWATER SCHEDULES AND DETAILS

JOB No.: **190077** DRG. No. **C110** REV **00**

AS SHOWN @A1

DRAWING:



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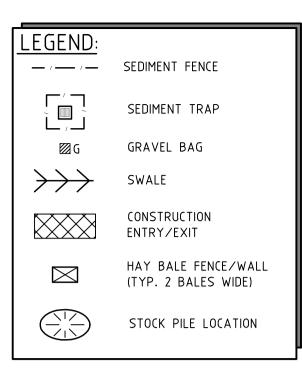
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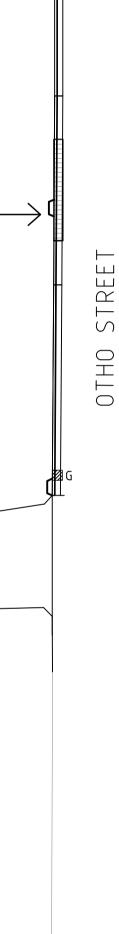
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PROJECT: INVERELL POLICE STATION





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109 OTHO STREET, INVERELL

EROSION AND SEDIMENT CONTROL PLAN

JOB No.: **190077** DRG. No. **C120** REV **00**

EROSION AND SEDIMENTATION CONTROL NOTES

1. BUILDER SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE BOUNDARIES. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG.HUMES PROPEX SILT STOP) STANDING 300 ABOVE GROUND AND EXTENDING 150 BELOW GROUND.

2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.

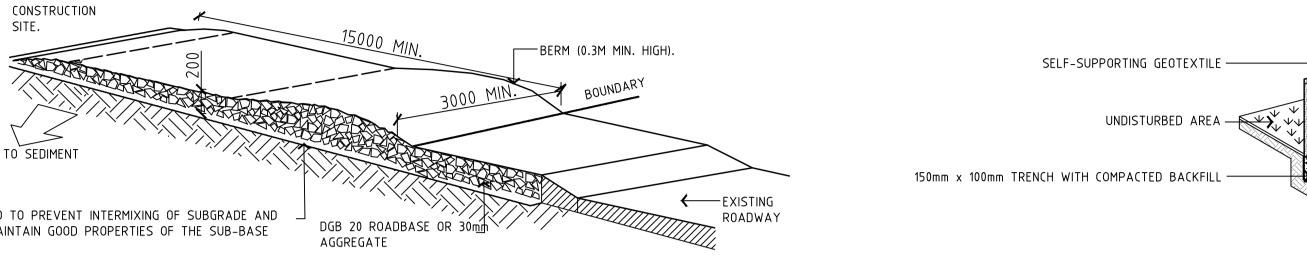
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.

4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.

5. ROOF DRAINAGE, IF APPLICABLE, IS TO BE CONNECTED TO THE STORMWATER SYSTEM AS SOON AS PRACTICAL.

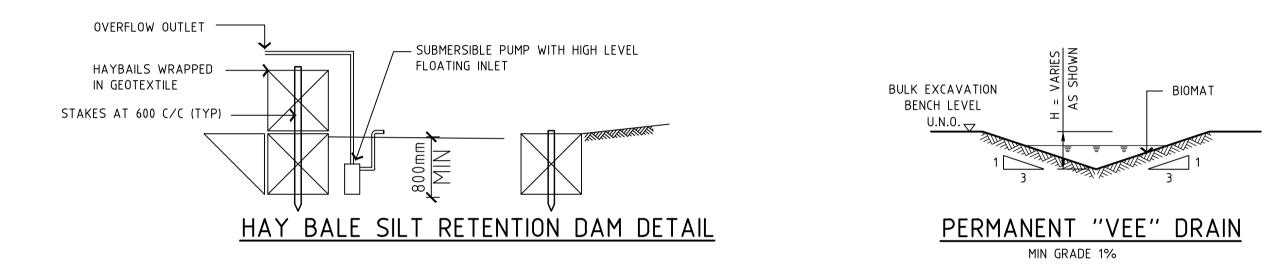
6. BUILDER SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES EVERYDAY THERE IS ACTIVITY ON SITE AND AFTER EVERY STORM EVENT.

7. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED BEFORE COMMENCEMENT OF WORKS. DISTURBED SURFACES ARE TO BE TREATED AS DETAILED WITH LINING INSTALLED AS SPECIFIED IN DETAIL

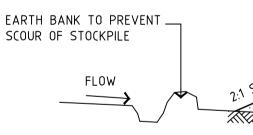


RUNOFF FROM PAD DIRECTED TO SEDIMENT TRAP

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS



STABILISE STOCKPILE SURFACE-

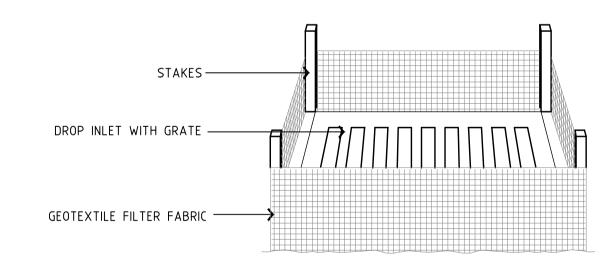


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TEMPORARY CONSTRUCTION EXIT



SEDIMENT FENCE — STOCKPILE

BUILDING MATERIAL STOCKPILES

SEDIMENT TRAP TO STORMWATER SUMP



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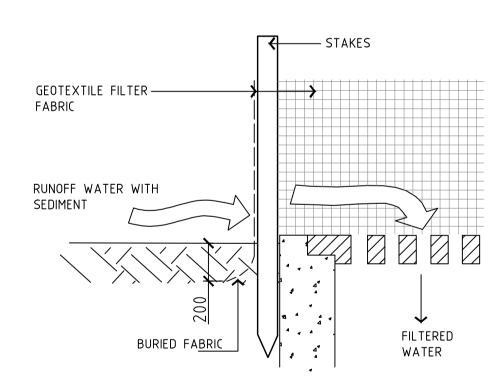
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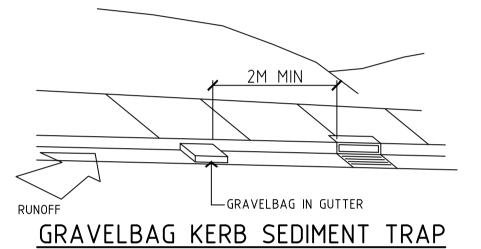
109 OTHO STREET, INVERELL

EROSION AND SEDIMENT CONTROL DETAILS

JOB No.: **190077**

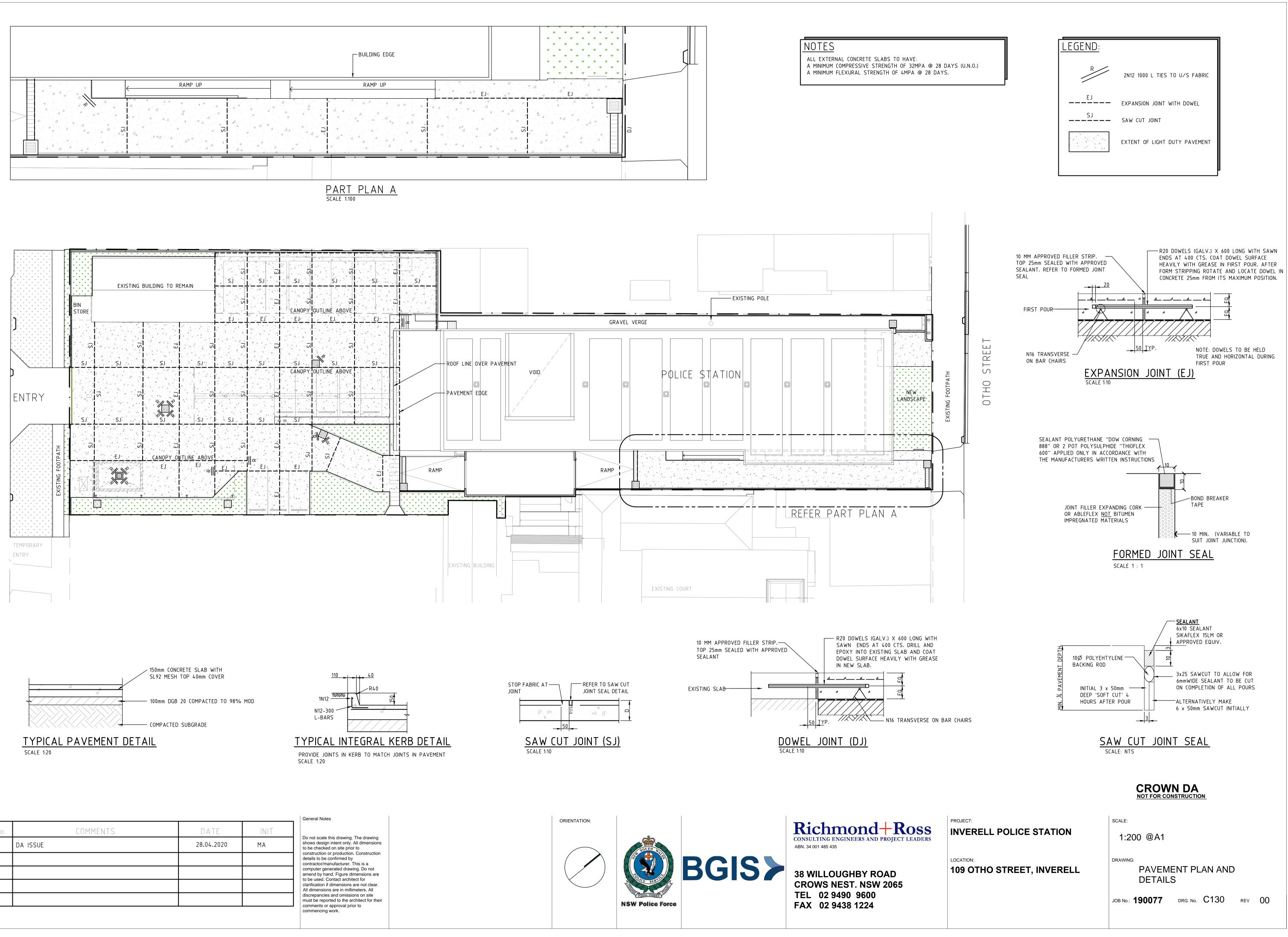
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DISTURBED AREA SEDIMENT FENCE

1.5m STAR PICKETS AT MAX. 2.5m CRS



REET

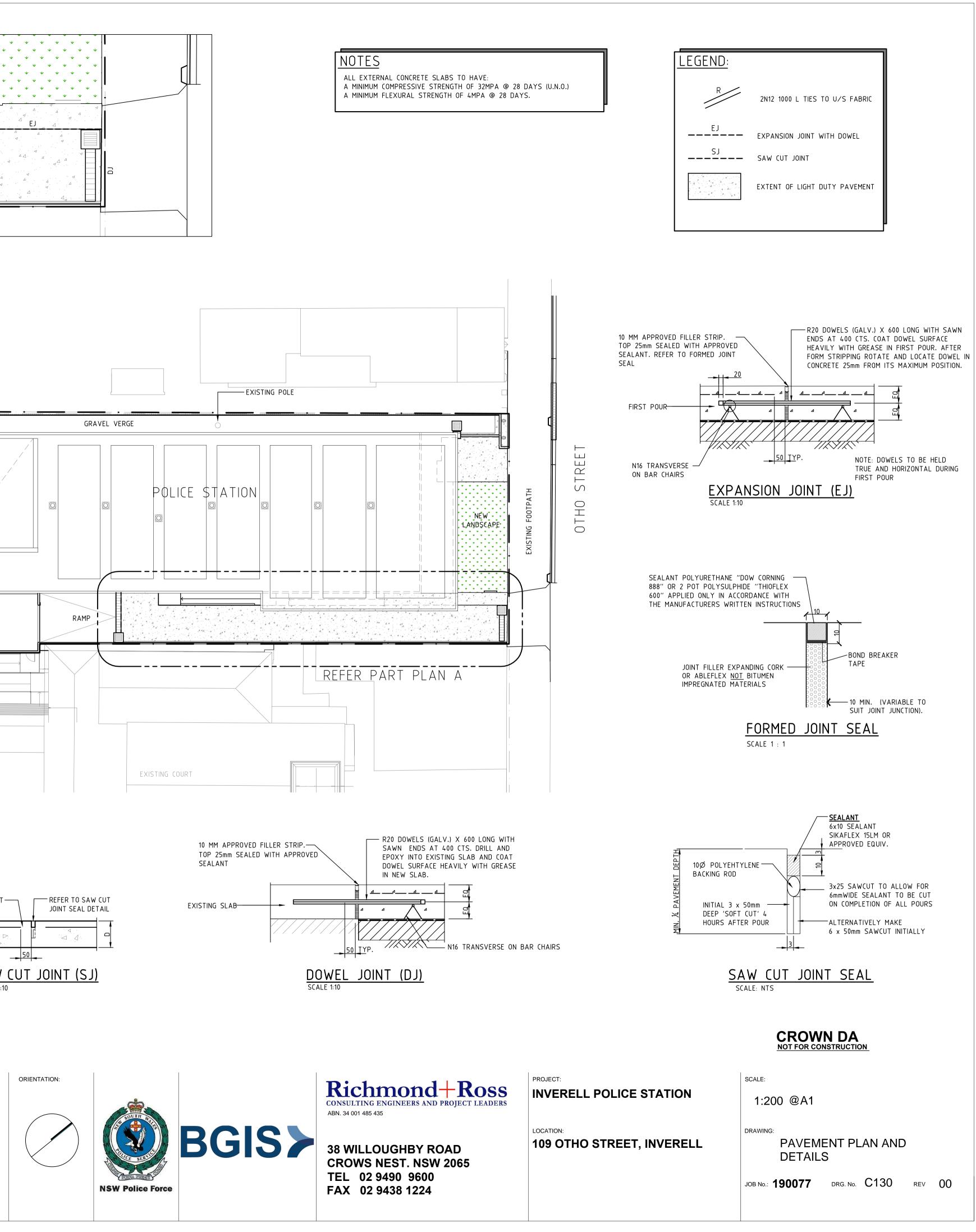
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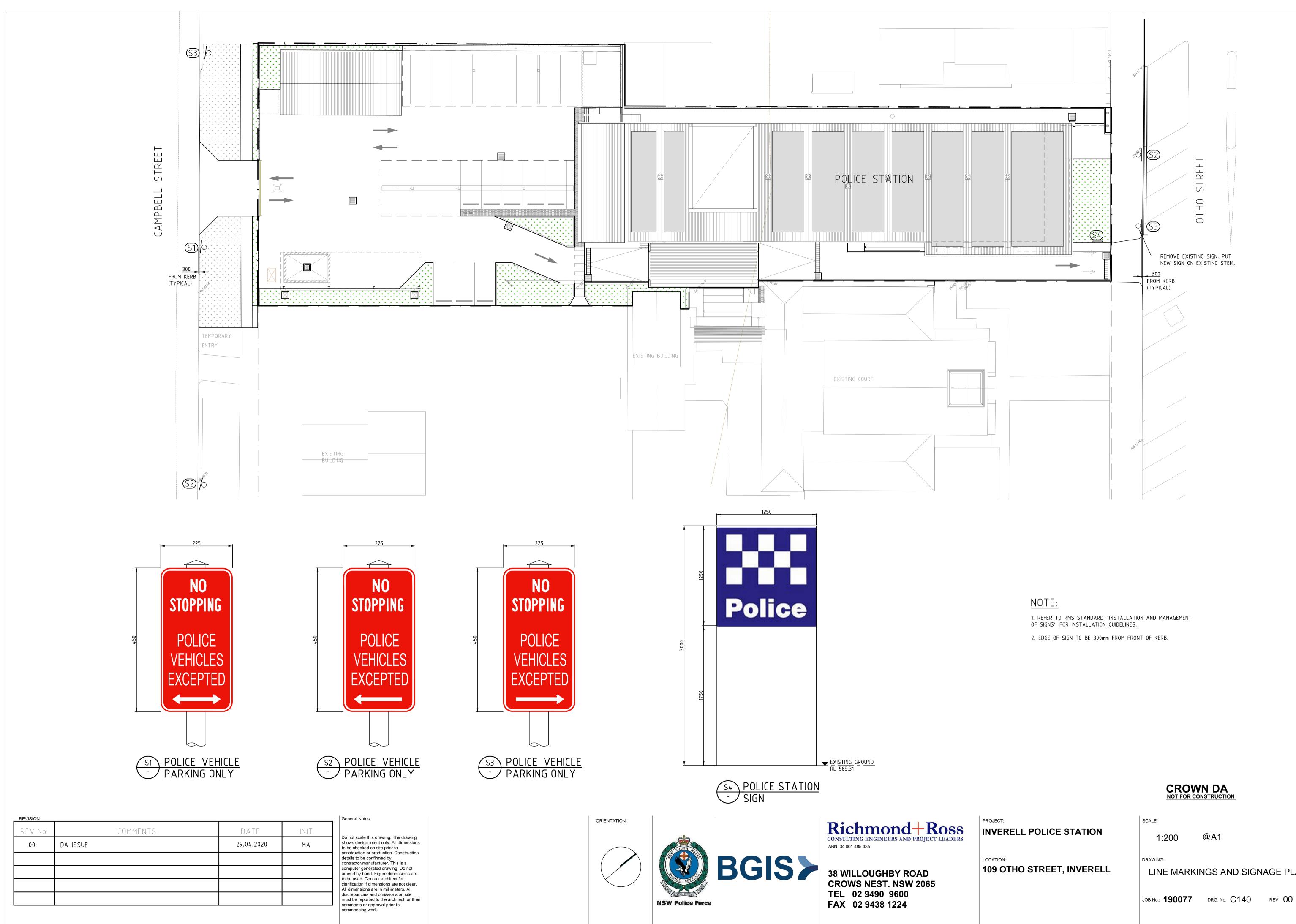
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LINE MARKINGS AND SIGNAGE PLAN