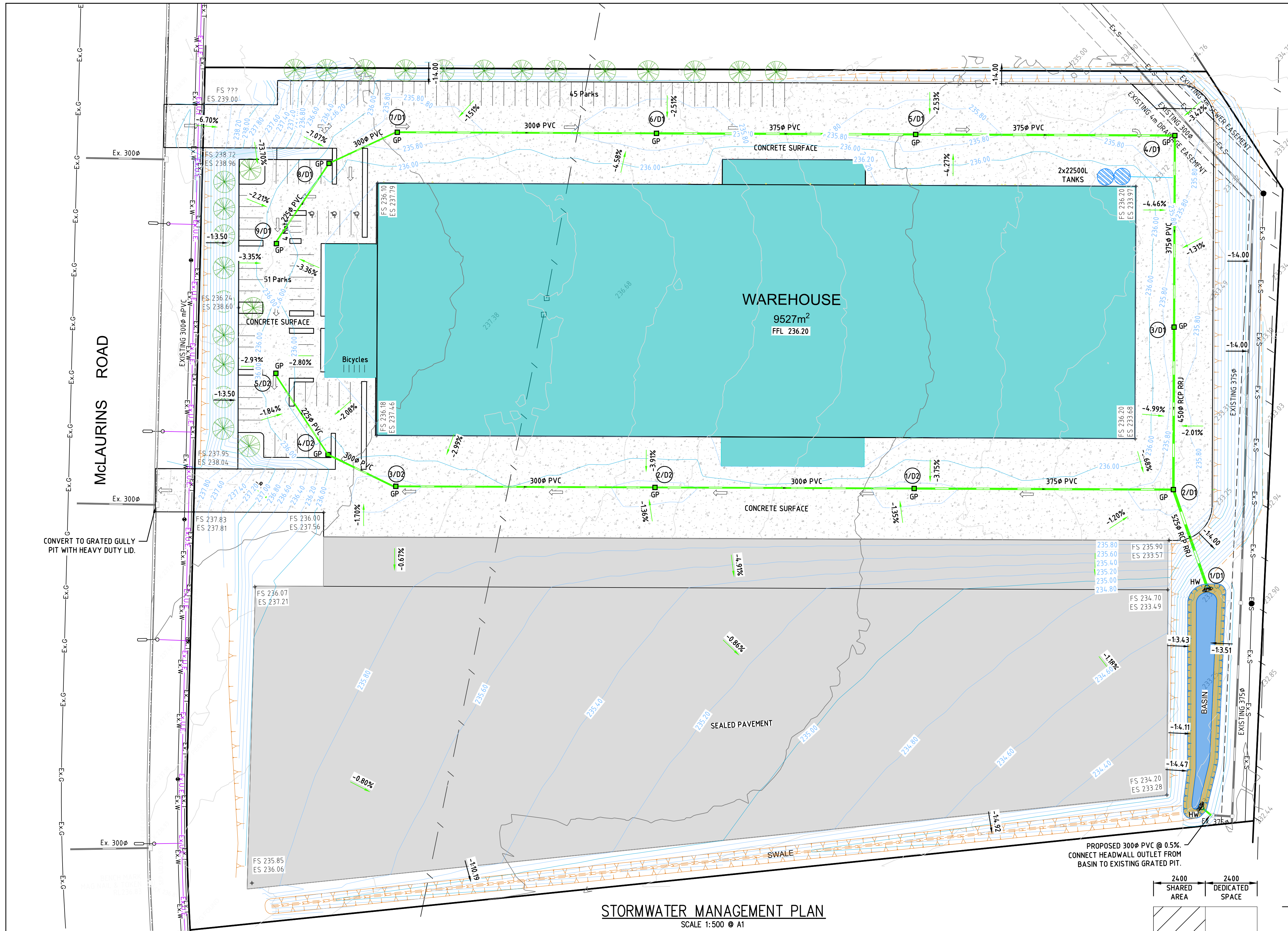




LEGEND

EXISTING

- BANK TOE
- BANK TOP
- DRAIN
- CONTOUR
- EASEMENT
- ELECTRICITY UNDERGROUND
- ELECTRICITY OVERHEAD
- ELECTRICITY PIT
- LIGHT POLE
- GATE
- FENCE
- FOOTPATH
- TRACK
- GAS
- KERB
- EXISTING SURFACE LEVEL
- PERMANENT SURVEY MARK
- BENCH MARK
- RETAINING WALL
- ROAD CENTERLINE
- ROAD EDGE FORMATION
- SEWER
- EX. J SEWER JUNCTION
- SEWER MANHOLE
- SEWER DEAD END
- STORMWATER
- STORMWATER DISCHARGE POINT
- STORMWATER HEADWALL
- STORMWATER JUNCTION PIT
- STORMWATER JUNCTION PIT
- STORMWATER SIDE ENTRY PIT
- STORMWATER GRATED PIT
- STORMWATER SURFACE INLET PIT
- STORMWATER DOUBLE SURFACE INLET PIT
- TELSTRA
- TELSTRA/NSN PIT
- VEGETATION
- VEGETATION TREE
- WATER
- WATER RECYCLED
- EX. FH WATER FIRE HYDRANT
- EX. SV WATER STOP VALVE
- EX. hc WATER HOUSE CONNECTION

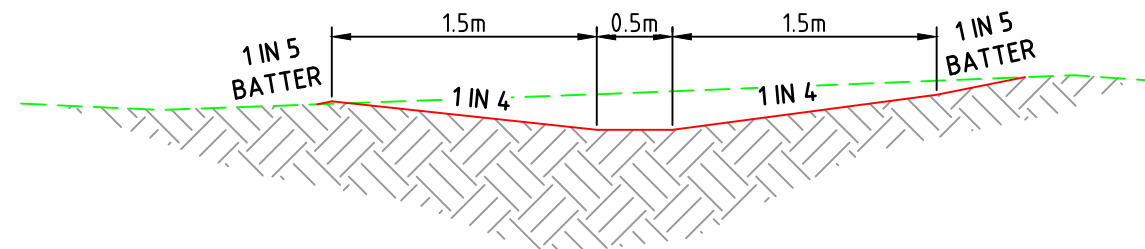
PROPOSED

- BANK TOE
- BANK TOP
- DRAIN
- CONTOUR
- EASEMENT
- ELECTRICITY HV
- ELECTRICITY LV
- LIGHT POLE
- FALL ARROW
- FINISHED SURFACE LEVEL
- FOOTPATH
- PROPOSED ROCK BEACHING
- KERB
- RETAINING WALL
- SEWER RISING MAIN
- SEWER JUNCTION
- SEWER FLOW ARROW
- SEWER MANHOLE
- SEWER MAINTENANCE SHAFT
- SEWER DEAD END
- STORMWATER
- STORMWATER FLOW ARROW
- STORMWATER HEADWALL
- STORMWATER JUNCTION PIT
- STORMWATER SIDE ENTRY PIT
- STORMWATER GRATED PIT
- STORMWATER SURFACE INLET PIT
- STORMWATER DOUBLE SURFACE INLET PIT
- STORMWATER DOWNPIPE
- STORMWATER HOUSE KERB ADAPTOR
- STORMWATER HOUSE PIT/PIPE ADAPTOR
- STORMWATER SURFACE FLOW DIRECTION
- STORMWATER SUBSOIL DRAINAGE
- TELSTRA
- TELSTRA/NSN PIT
- VEGETATION EXIST TREE TO BE REMOVED
- WATER
- WATER FUTURE MAIN
- WATER RECYCLED
- WATER GRAVEL BACKFILL
- WATER FIRE HYDRANT
- WATER STOP VALVE
- WATER HOUSE CONNECTION
- WATER AIR VALVE
- WATER SCOUR VALVE
- CONCRETE SURFACE
- SEALED SURFACE

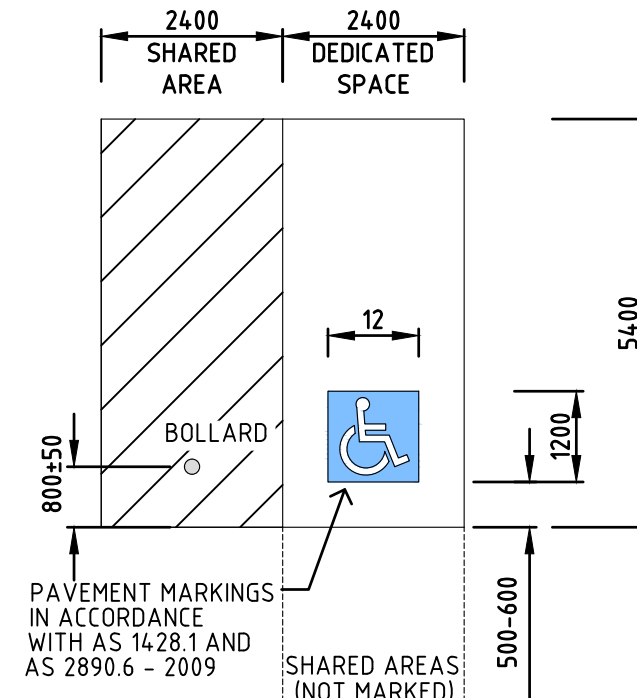
CONCEPT PLAN ONLY.
SITE LEVELS SUBJECT
TO DETAILED DESIGN.

- NOTE:**
- CONTRACTOR TO CALL BEFORE YOU DIG ON PH 1100 AND LOCATE ALL SERVICES BY HAND PRIOR TO COMMENCEMENT OF ANY WORKS TO VERIFY THE LOCATION OF ANY UNDERGROUND SERVICES.
 - ALL DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS 3500.
 - CONNECTION TO EXISTING PIT IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
 - ALL PITS TO BE A MINIMUM OF 450 x 450 SQ PITS UNLESS SPECIFIED ON THE PLAN
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 - MINIMUM COVER ON PVC STORM WATER UNDER CONCRETE PAVEMENT TO BE 100mm FROM UNDERSIDE OF PAVEMENT AND 500mm COVER UNDER ASPHALT PAVEMENT. REFER TO TABLE 7.1 IN AS 3500.3.
 - 3% CEMENT STABILISED SAND WHERE COVER CANNOT BE ACHIEVED.
 - MINIMUM GRADE OF 100% AND 150% STORM WATER PIPE TO BE 1%.
 - MINIMUM GRADE OF CARPARK PAVEMENT IS 0.5% FOR CONCRETE AND 1% FOR ASPHALT.
 - MAXIMUM DISTANCE BETWEEN SAWCUTS 6.0m UNLESS NOTED OTHERWISE.
 - MAXIMUM DISTANCE BETWEEN DOWELED EXPANSION JOINT TO BE 15m UNLESS NOTED OTHERWISE.
 - FIRE HYDRANTS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR TO CONFIRM LOCATION PRIOR TO COMMENCEMENT OF ANY WORKS.

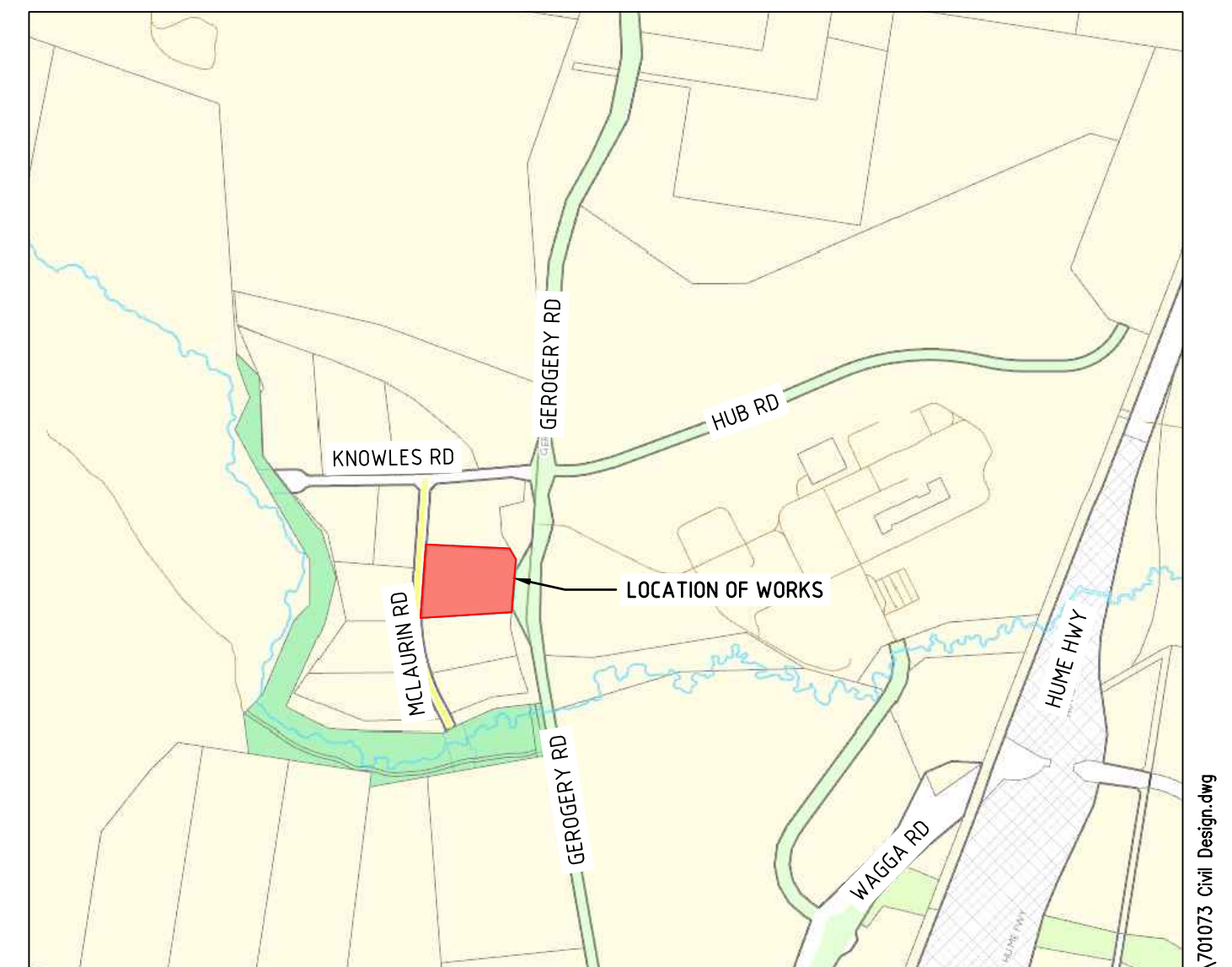
STORMWATER MANAGEMENT PLAN
SCALE 1:500 @ A1



SWALE TYPICAL SECTION
SCALE : NTS

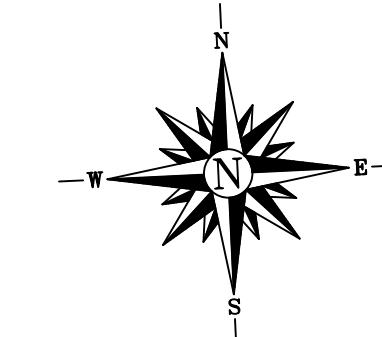


DISABLED PARK DETAIL
SCALE NTS



LOCALITY PLAN
NOT TO SCALE

DRAWING SCHEDULE			
SHEET No	DESCRIPTION	REVISION	DWG. No
1	STORMWATER MANAGEMENT PLAN	F	701073-C-01
2	CATCHMENT PLAN	F	701073-C-02
3	DRAINAGE LONGITUDINAL SECTION - SHEET 1 OF 2	F	701073-C-03
4	DRAINAGE LONGITUDINAL SECTION - SHEET 2 OF 2	F	701073-C-04



REV.	AMENDMENTS	DATE	INIT.
F	DRAINAGE LONG SECTIONS ADDED	22.01.24	JEK
E	CATCHMENTS UPDATED	22.01.24	TO
D	ISSUED FOR DA - FFL UPDATED	14.12.23	TO
C	CLIENT COMMENTS ADDRESSED	17.10.23	JS
B	STORMWATER MANAGEMENT PLAN	16.10.23	JS
A	CONCEPT	40.04.23	JF

NOTES:

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ALL BOUNDARIES ARE APPROXIMATE ONLY
REFER TO PLAN OF SUBDIVISION

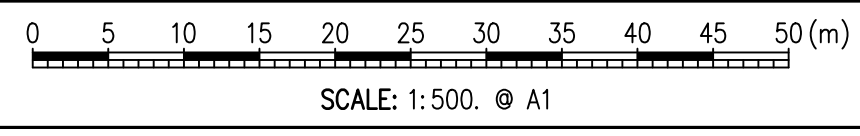
CONTRACTOR TO CALL BEFORE YOU DIG ON PH 1100 AND LOCATE ALL SERVICES BY HAND PRIOR TO COMMENCEMENT OF ANY WORKS TO VERIFY THE LOCATION OF ANY UNDERGROUND SERVICES.



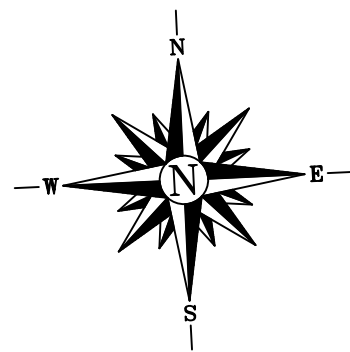
FOR DA

NOTE:
SURVEY HAS BEEN PROVIDED BY OTHERS
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ONSITE PRIOR TO COMMENCEMENT OF WORKS

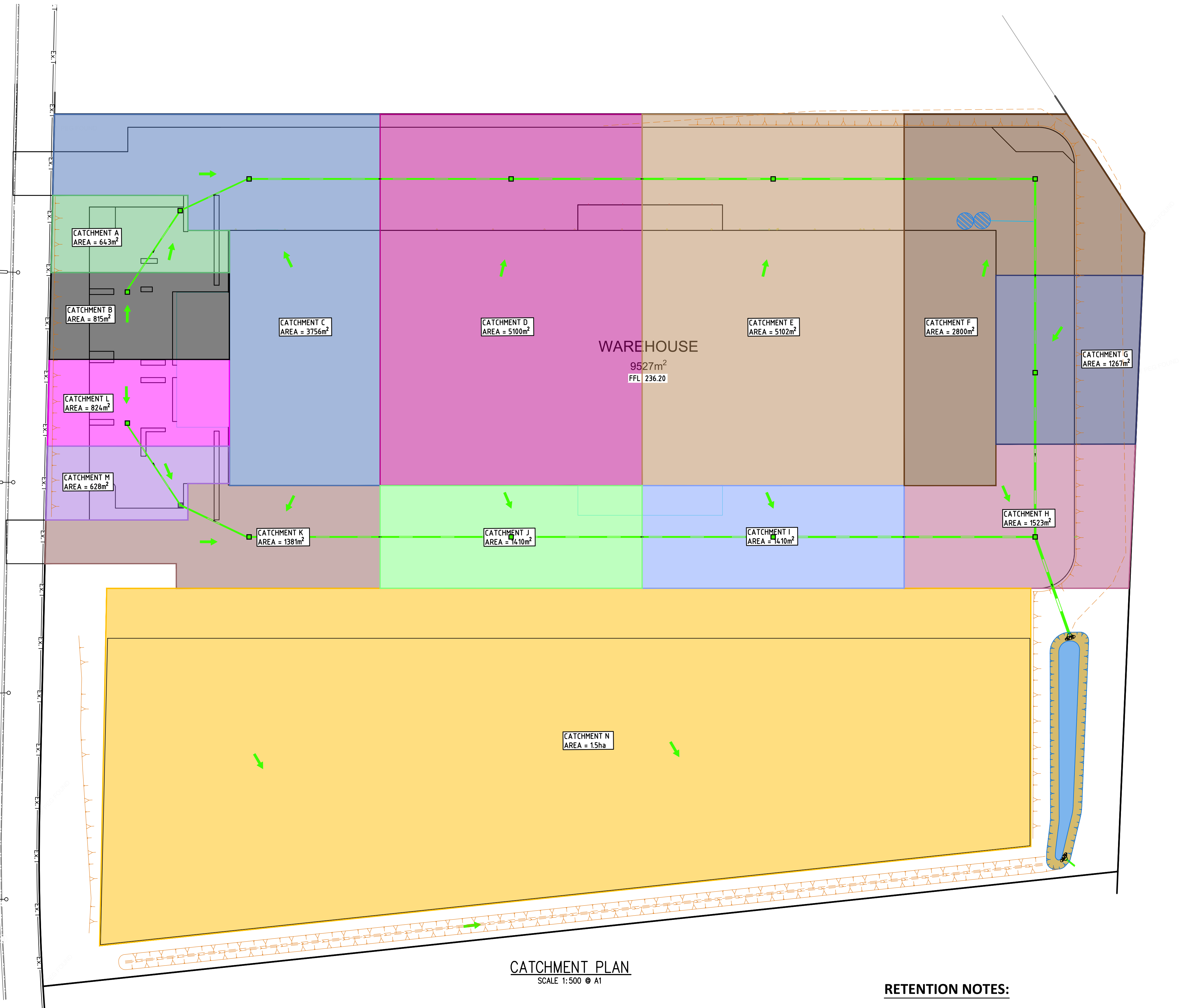
CLIENT:
BARKER GROUP



PROJECT REFERENCE: 701073		PRINTED : 22/01/2024		BY: JASHAN BEDI	A1
STORMWATER MANAGEMENT PLAN					
PROPOSED INDUSTRIAL SHEDS					
21 McLAURINS ROAD					
ETTAMOGAH, NSW					
DESIGNER: J.FORREST		DRAWN: J.SINGH		DRAWING NO.	REVISION
CHECKED: C.FISHER		SHEET: 1 OF 4		701073-C-01	F



McLAURINS ROAD



CATCHMENT PLAN
SCALE 1:500 @ A1

RETENTION NOTES:

- TOTAL RETENTION REQUIRED $= 77 + 89 + 105 + 51\text{m}^3$
 $= 323\text{m}^3$
- TOTAL RETENTION ACHIEVED $= \text{IN PITS AND PIPES} + \text{TANKS} + \text{RETENTION BASIN}$
 $= 152.6 + 4.5 + 163\text{m}^3$
 $= 360\text{m}^3$

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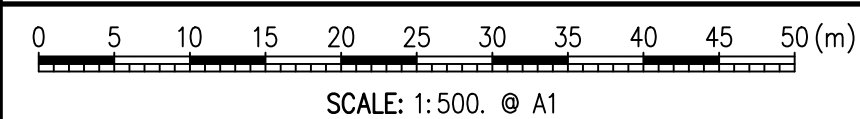
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SERVICES.



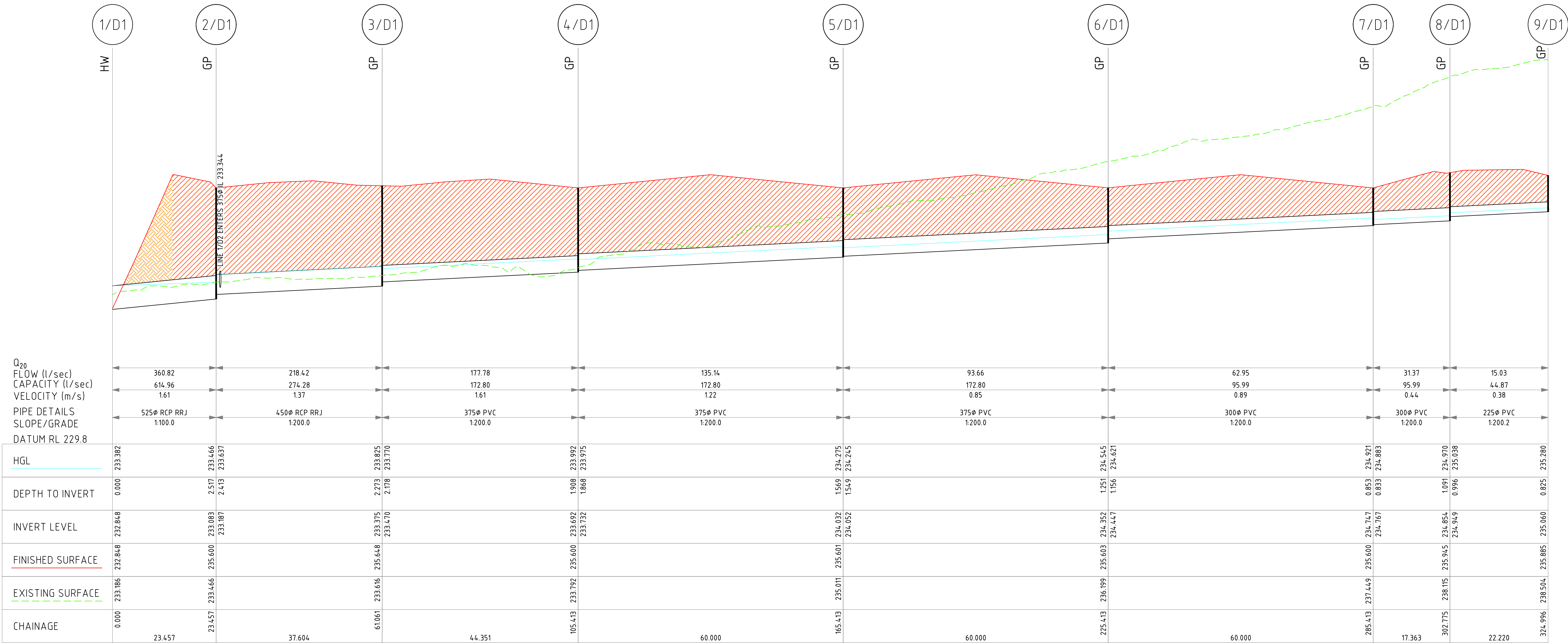
FOR DA

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CLIENT:
BARKER GROUP



PROJECT REFERENCE: 701073		PRINTED : 22/01/2024 BY: JASHAN BEDI		A1
CATCHMENT PLAN PROPOSED INDUSTRIAL SHEDS 21 McLAURINS ROAD ETTAMOGAH, NSW				
DESIGNER: J.FORREST	DRAWN: J.SINGH	DRAWING NO.	REVISION	
CHECKED: C.FISHER	SHEET: 2 OF 4	701073-C-02	F	



DRAINAGE LONGITUDINAL SECTION (SHEET 1 OF 2)
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- GRAVEL BACKFILL
- EARTH BACKFILL
- EARTH CUT

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS			
DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)		
	RECTANGULAR		CIRCULAR
	WIDTH	LENGTH	DIAMETER
≤450	350	350	-
≤600	450	450	600
>600 ≤900	600	600	900
>900 ≤1200	600	900	1000
>1200	900	900	1000

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 - MINIMUM GRADE OF 100Ø AND 150Ø STORM WATER PIPE TO BE 1%.

REV.	AMENDMENTS	DATE	INIT.
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A	CONCEPT	10.04.23	JF

NOTES:

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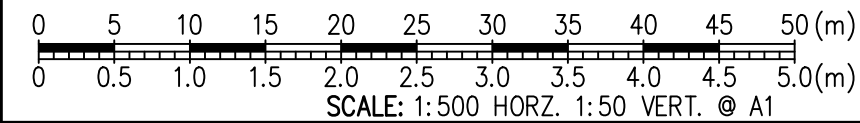
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FOR DA

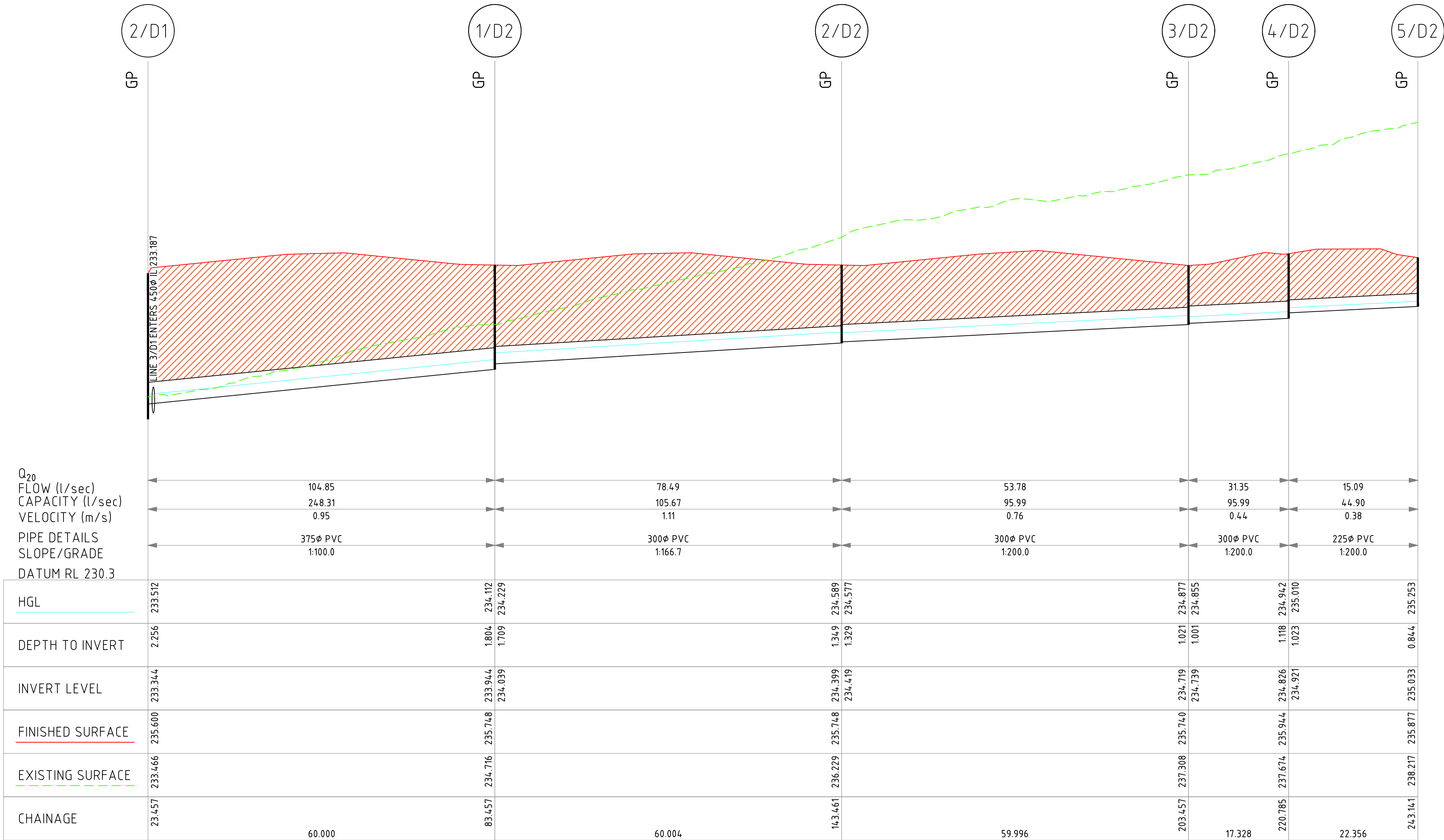
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ONSITE PRIOR TO COMMENCEMENT OF WORKS

CLIENT:
BARKER GROUP



PROJECT REFERENCE:701073		PRINTED : 22/01/2024		BY: JASHAN BEDI	A1
DRAINAGE LONGITUDINAL SECTION (SHEET 1 OF 2)					
PROPOSED INDUSTRIAL SHEDS					
21 MCCLAURIS ROAD					
ETTAMOGAH, NSW					
DESIGNER: J.FORREST		DRAWN: J.SINGH		DRAWING NO.	REVISION
CHECKED: C.FISHER		SHEET: 3 OF 4		701073-C-03	F

D:\Jasha\701073\701073 Civil Design.dwg



DRAINAGE LONGITUDINAL SECTION (SHEET 1 OF 2)
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

Pit Schedule											
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)
1/D1	HW					525	232.848	0.000	232.848	497969.95	6018978.596
2/D1	GP	900	900	525	233.083	450	233.187	2.517	235.600	497963.34	6019001.103
						375	233.344				
3/D1	GP	900	900	450	233.375	375	233.470	2.273	235.648	497965.29	6019038.656
1/D2	GP	900	900	375	233.944	300	234.039	1.804	235.748	497903.42	6019004.215
4/D1	GP	900	900	375	233.692	375	233.732	1.908	235.600	497967.59	6019082.948
2/D2	GP	900	900	300	234.399	300	234.419	1.349	235.748	497843.50	6019007.328
5/D1	GP	900	900	375	234.032	375	234.052	1.569	235.601	497907.67	6019086.060
3/D2	GP	600	900	300	234.719	300	234.739	1.021	235.740	497783.58	6019010.440
6/D1	GP	900	900	375	234.352	300	234.447	1.251	235.603	497847.75	6019089.173
4/D2	GP	600	900	300	234.826	225	234.921	1.118	235.944	497768.26	6019018.531
7/D1	GP	600	600	300	234.747	300	234.767	0.853	235.600	497787.83	6019092.285
5/D2	GP	600	600	225	235.033			0.844	235.877	497757.11	6019037.905
8/D1	GP	600	900	300	234.854	225	234.949	1.091	235.945	497771.71	6019085.852
9/D1	GP	600	600	225	235.060			0.825	235.885	497758.66	6019067.864

LEGEND

- DESIGN SURFACE
EXISTING SURFACE
GRAVEL BACKFILL
EARTH BACKFILL
EARTH CUT

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS			
DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)		
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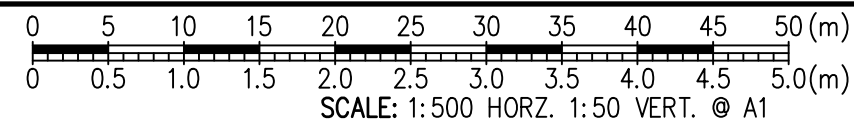
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FOR DA

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CLIENT:
BARKER GROUP



PROJECT REFERENCE: 701073		PRINTED : 22/01/2024		BY: JASHAN BEDI		A1
DRAINAGE LONGITUDINAL SECTION (SHEET 1 OF 2)						
PROPOSED INDUSTRIAL SHEDS						
21 MCCLAURIS ROAD						
ETTAMOGAH, NSW						
DESIGNER: J.FORREST		DRAWN: J.SINGH		DRAWING NO.		REVISION
CHECKED: C.FISHER		SHEET: 4 OF 4		701073-C-04		F