

12537 01C - RAIR II R23 FAIRY MEADOW SITE

INNOVATION WAY, FAIRY MEADOW, NSW, 2519

CIVIL WORKS PACKAGE

CIVIL DRAWING REGISTER	
DRAWING NUMBER	DRAWING TITLE
C1201	COVER PAGE AND DRAWING REGISTER
C1202	GENERAL NOTES
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C1230	SITWORKS AND STORMWATER DRAINAGE PLAN
C1240	EXISTING BULK CATCHMENT PLAN
C1241	PROPOSED BULK CATCHMENT PLAN
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C1260	PAVEMENT PLAN
C1270	SITWORKS AND PAVEMENT DETAILS



LOCALITY PLAN
NOT TO SCALE

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P4	ISSUED FOR AFC	28.04.23	MD
P3	ISSUED FOR AFC	30.09.22	LD
P2	ISSUED FOR TENDER	05.08.22	LD
P1	ISSUED FOR DA	01.07.22	DH
Rev	Description	Date	By

P4	ISSUED FOR AFC	28.04.23	MD	DA
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Rev	Description	Date	By	A

Rev	Description	Date	By	App



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Project Name	RAIR II: FAIRY MEADOW SITE INNOVATION WAY, FAIRY MEADOW NSW, 2519, LOT1: DP1172135		AFC		
	Designed Drawn Scale Date Sheet	LD DH - APR 2022 A1	Approved TD Project Ref	Date APR 2022 Drawing No	North  Rev
Drawing Title	COVER PAGE AND DRAWING REGISTER		12537 01 R23 C1201 P4		

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.

MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.

THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN METERS. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.

ALL SETOUT AND DIMENSIONS OF THE STRUCTURE INCLUDING KERBS AND RETAINING WALLS, AND BULK EARTHWORKS MUST BE TAKEN FROM THE ARCHITECT'S DRAWINGS. SETOUT OF THE STORMWATER PITS BY OTHERS. CONTRACTOR TO CONFIRM SETOUT OF SERVICE TRENCHING INCLUDING SUBSOIL ON SITE.

THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS.

ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.

THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.

ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.

SERVICE INFORMATION SHOWN IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.

EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT BE ACCURATE.

UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS.

MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

S1	PRIOR TO THE PLACEMENT OF ANY PAVEMENTS, BUILDINGS OR DRAINS THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST 'E11' OF A.S. 1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL TO THE ENGINEER'S APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW. ON HIGHLY REACTIVE CLAY AREAS SITE EXCAVATED MATERIAL MAY BE USED WITH THE PRIOR AUTHORISATION OF THE ENGINEER.	
S2	ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT BY X DATED X(X). MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO BE VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER): • LANDSCAPED AREAS 98% STD. • FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL; - FINE CRUSHED ROCK 98% STD. - SELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT 98% STD. • BUILDING BASECOURSE 98% MOD • FILL UNDER ROAD PAVEMENTS; - TO WITHIN 50mm OF FINISHED SUBGRADE LEVEL 98% STD. - UP TO FINISHED SUBGRADE LEVEL 98% STD. • ROAD PAVEMENT MATERIALS; - SUB BASE 98% MOD. - BASE COURSE 98% MOD.	

S3 GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN AND MATCH ADJACENT SURFACES OR STRUCTURES.

S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.

S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICEABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATE TO THE SATISFACTION OF THE ENGINEER.

S6 ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER / GEOTECHNICAL CONSULTANT

S7 CONTRACTOR IS TO ENSURE THAT ALL EXCAVATIONS ARE MAINTAINED IN A DRY CONDITION WITH NO WATER ALLOWED TO REMAIN IN THE EXCAVATIONS.

S8 ALL FINISHES AND COLOURS TO BE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.

S9 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE, REINFORCEMENT AND RETAINING WALL DETAILS.

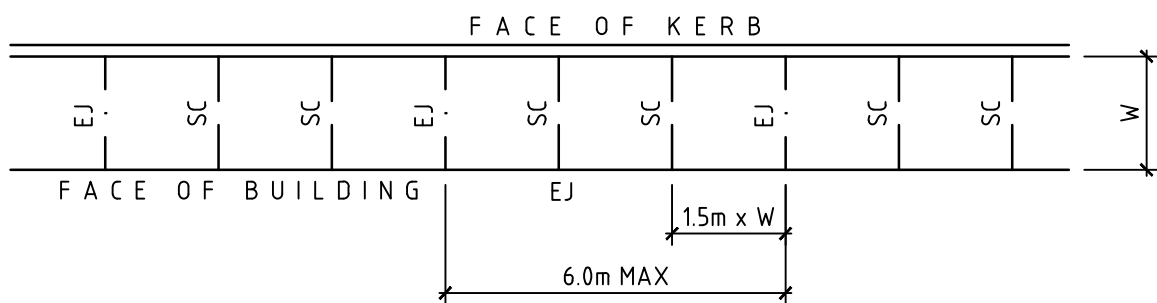
S10 GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST:-
A) COMPLY WITH THE GENERAL PROVISIONS OF PART 3.1 "MANAGING RISKS TO HEALTH AND SAFETY" OF NSW WORK AND HEALTH AND SAFETY REGULATION 2011
B) COMPLY PART 6.3 DIVISION 3 "EXCAVATION WORK" OF NSW WORK HEALTH AND SAFETY REGULATION NSW 2011

S11 PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 15 METRES THE CONTRACTOR MUST:
A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

SW1	UNLESS NOTED OTHERWISE, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 150 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100.
SW2	ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING MATERIALS AS SPECIFIED ON THE DRAWINGS IN ACCORDANCE WITH THE APPROPRIATE A.S. IF NOT SPECIFIED THEN CLASS 2 RRJ RCP SHALL BE USED FOR DIAMETERS > 225mm. SEWER CLASS SEH UPVC IN ACCORDANCE WITH AS1260 SHALL BE USED FOR Ø225mm OR SMALLER.
SW3	ALL PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH AS3725 FOR RCP AND AS2032 FOR PVC. ALL BEDDING TO BE TYPE H2 UNLESS NOTED OTHERWISE.
SW4	FOR ALL PITS > 1.2m DEEP, STEP IRONS SHALL BE INSTALLED.
SW5	PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY BONACCI GROUP.
SW6	ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
SW7	WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
SW8	GRATES AND COVERS SHALL CONFORM WITH AS 3996 AND AS 1428.1 FOR ACCESS REQUIREMENTS.
SW9	CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES ARE NOT TO BE REDUCED WITHOUT APPROVAL.
SW10	AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
SW11	ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

K1	ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa U.N.O.
K2	ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO A MINIMUM 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASI289 5.2.1.
K3	EXPANSION JOINTS (E) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
K4	WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
K5	BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
K6	IN THE REPLACEMENT OF KERBS:- - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O. - EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

J1	EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT 6m CENTRES.
J2	SAWCUT JOINTS (SCJ) ARE TO BE LOCATED AT A MAX 15m x WIDTH OF PAVEMENT. THE TIMING OF THE SAWCUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED.
J3	WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
J4	PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVERS
J5	ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.)

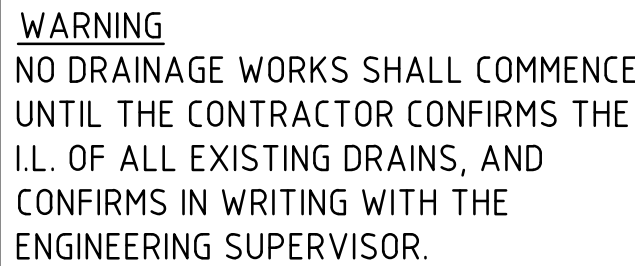
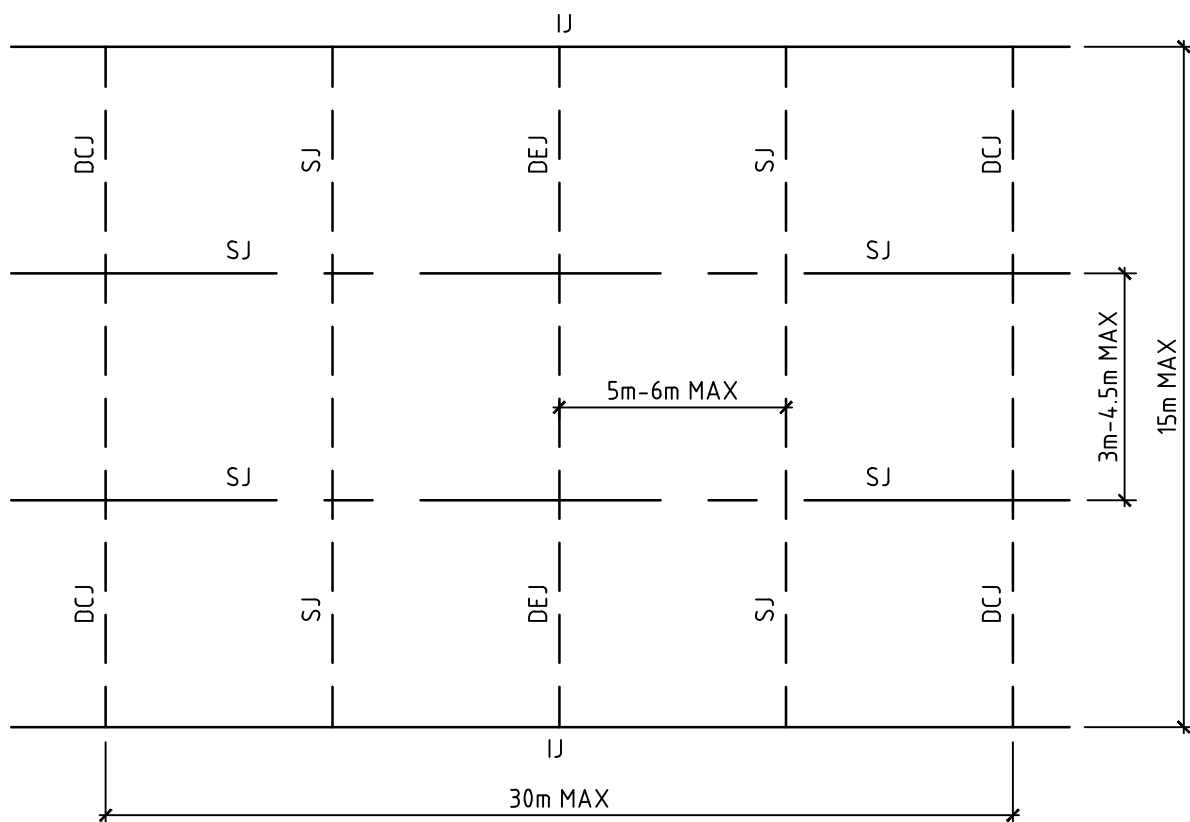


J6 ALL VEHICULAR PAVEMENTS TO BE JOINED AS SHOWN ON DRAWINGS.

J7 ISOLATION JOINTS WITH SUB-GRADE BEAM (IJ) TO BE PROVIDED AT INTERSECTIONS OR AT THE JUNCTION OF A POUR BREAK.

J8 ALL VEHICULAR PAVEMENTS TO BE JOINED IN ACCORDANCE WITH AUSTRADOS AGPT02-12 GUIDE TO PAVEMENT TECHNOLOGY PART 2 STRUCTURAL PAVEMENT DESIGN AND SUPPLEMENT AP-T36-06 PAVEMENT DESIGN FOR LIGHT TRAFFIC

J9 VEHICULAR PAVEMENT JOINING AS FOLLOWS (U.N.O.)



WARNING
Beware of Underground Services
The locations of underground services shown
are approximate only and their exact
position should be proven on site.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.



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Drawing Title GENERAL NOTES

Designed	LD	Approved	Date	North
Drawn	DH	TD	APR 2022	
Scale	-	Project Ref	Drawing No	Rev
Date	APR 2022	12537 01	R23 C1202	P4
Sheet	A1			

1. IT HAS BEEN ASSUMED THAT HOARDINGS/SILT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.

- SEDIMENT CONTROL CONDITIONS

- ## SITE INSPECTION & MAINTENANCE CONDITIONS

- AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL.
- ENTRIES WILL INCLUDE:

- THE BOOK WILL BE KEPT ONSITE & MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN
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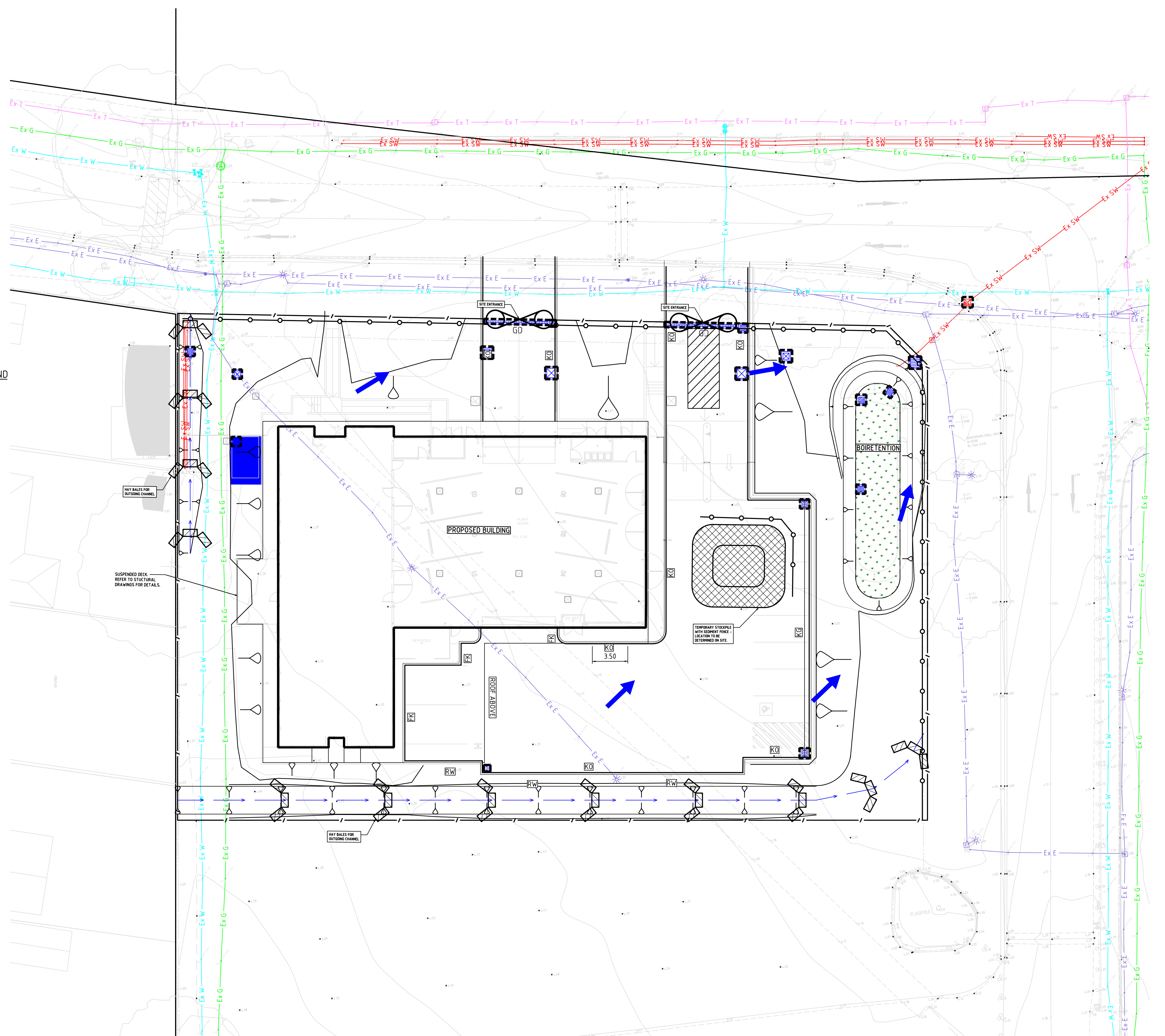
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Rev	Description	Date	By	App	Rev	Description	Date	By	App
P5	ISSUED FOR AFC	28.04.23	MD	DW					
P4	ISSUED FOR AFC	16.11.22	LD	DW					
P3	ISSUED FOR AFC	30.09.22	LD	DW					
P2	ISSUED FOR TENDER	05.08.22	LD	DW					
P1	ISSUED FOR DA	01.07.22	DH	DW					

	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

	BARRIER FENCE
	SEDIMENT FENCE
	CATCH DRAIN
	TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
	SEDIMENT BASIN (LOCATION TBC ON-SITE)
	TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
	GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
	SANDBAGS INSTALLED ON EXISTING PIT
	OVERLAND FLOW
	HAY BALES



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<u>28.04.23</u> MD DW	_____
<u>16.11.22</u> LD DW	_____
<u>30.09.22</u> LD DW	_____
<u>05.08.22</u> LD DW	_____
<u>01.07.22</u> DH DW	_____

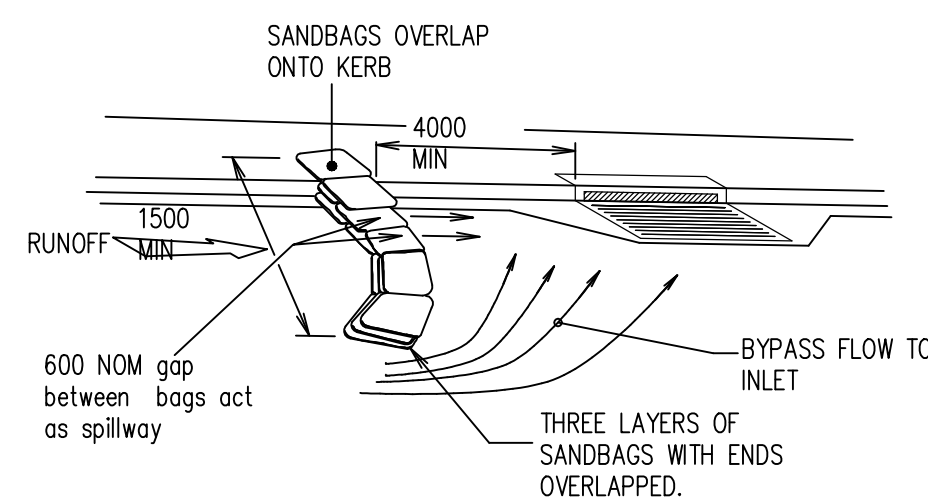
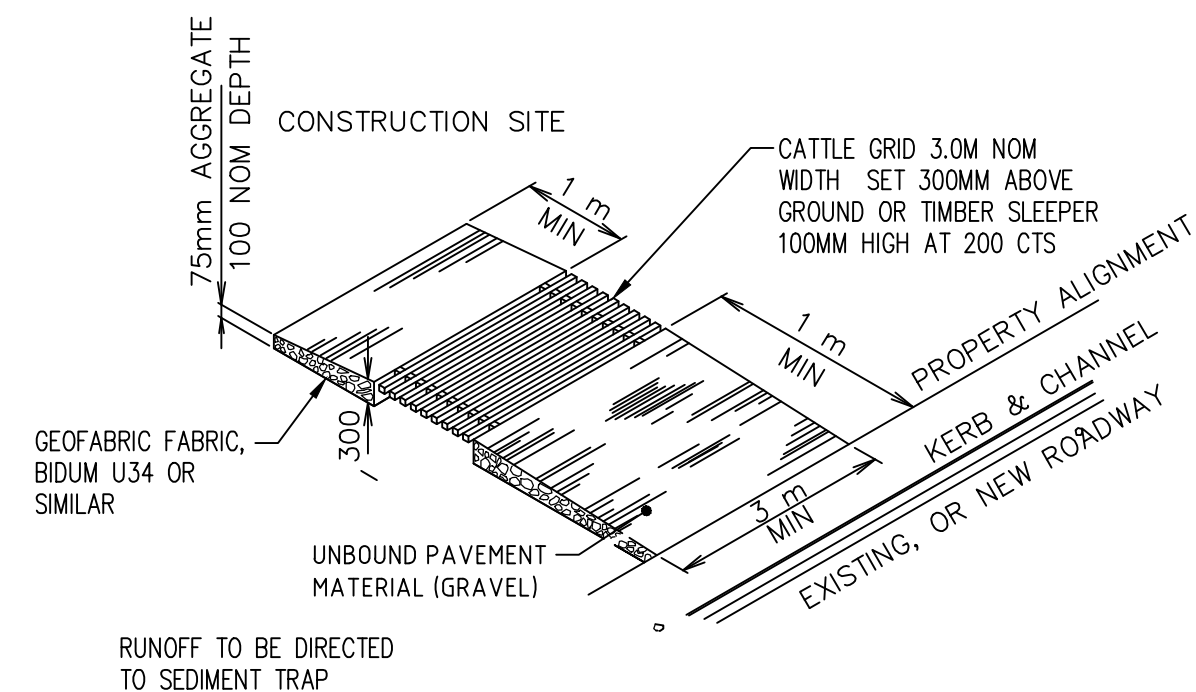
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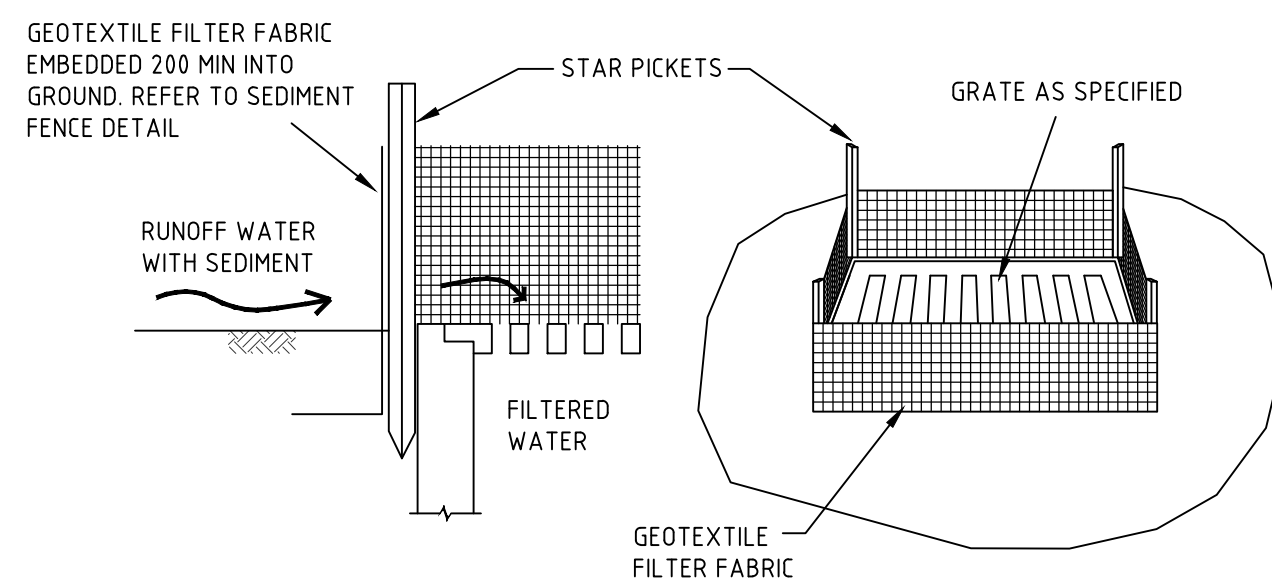
Project Name	RAIR II: FAIRY MEADOW SITE INNOVATION WAY, FAIRY MEADOW NSW, 2519, LOT1: DP1172135
Drawing Title	SEDIMENT AND EROSION CONTROL PLAN

AFC

Designed	LD	Approved	Date	North
Drawn	DH	TD	APR 2022	
Scale	1:200	Project Ref	Drawing No	Rev
Date	APR 2022	12537 01	R23 C1205	P5
Sheet	A1			

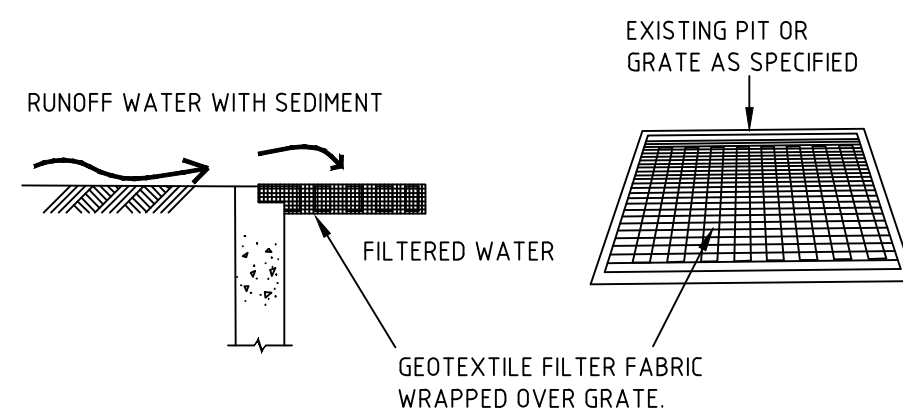


NOT TO SCALE



NOT TO SCALE

NOT TO SCALE



NOT TO SCALE

ALTERNATIVE SEDIMENT FENCE NOTES

1. INSTALL THIS TYPE SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHEN APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING UV-RESISTANT CABLE TIES.
3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

P4	ISSUED FOR AFC	28.04.23	MD	DW
P3	ISSUED FOR AFC	30.09.22	LD	DW
P2	ISSUED FOR TENDER	05.08.22	LD	DW
P1	ISSUED FOR DA	01.07.22	DH	DW

Rev	Description	Date	By	App



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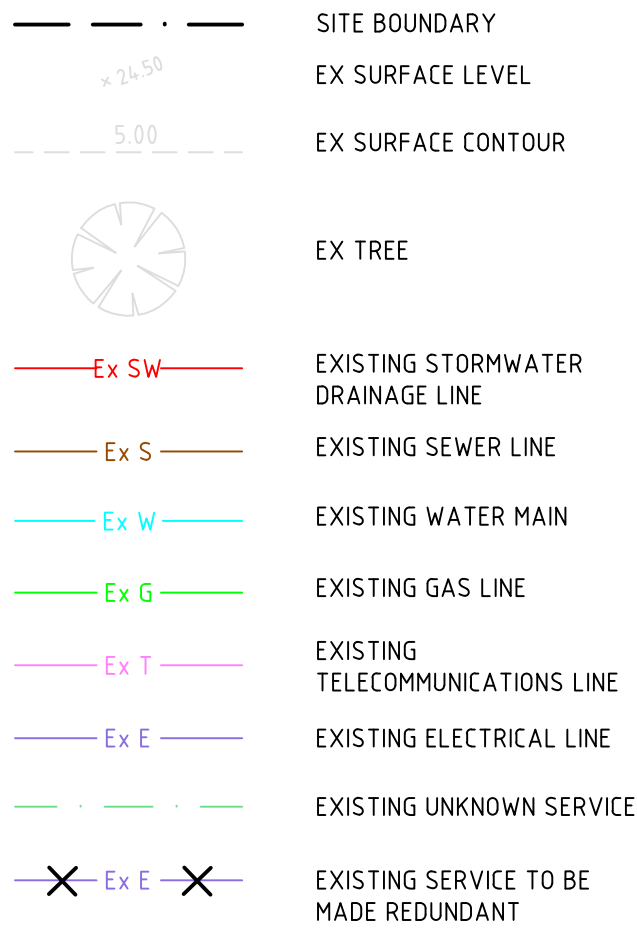
Project Name	RAIR II: FAIRY MEADOW SITE INNOVATION WAY, FAIRY MEADOW NSW, 2519, LOT1: DP1172135
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Drawing Title	SEDIMENT AND EROSION CONTROL DETAILS
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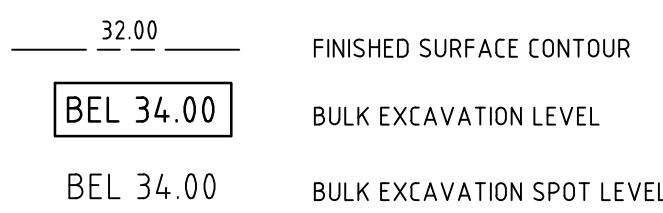
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Designed	LD	Approved	Date	North
Drawn	DH	TD	APR 2022	
Scale	NTS	Project Ref	Drawing No	Revision
Date	APR 2022	12537 01 R23 C1230 P4		
Sheet	A1			

SURVEY LEGEND



SITEWORKS LEGEND



EXCAVATION NOTES

- E1 VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES HAVE BEEN CALCULATED BETWEEN 150mm STRIPPED SURFACE LEVELS AND BULK EARTHWORKS SURFACE OR AS NOTED IN GEOTECHNICAL REPORT.
- E2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.
- E3 THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS). IN ADDITION TO MAKING NO ALLOWANCE FOR TRENCH BACKFILL, TREE ROOTBALLS OR DETAILED EXCAVATION.
- E4 PROVIDE TEMPORARY MAXIMUM 1 IN 15 BATTERS U.N.O. GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTION.
- E5 THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE CONFIRMED ON-SITE) AND RE-USED USING VALIDATED MATERIALS AS LANDSCAPING SOIL BUILD-UP/BACKFILL IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS. REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E6 300mm BULK EARTHWORKS DEPTHS HAVE BEEN CONSIDERED FOR PLANT AREA.
- E7 GRASSED AREAS HAVE BULK EARTHWORKS DEPTH OF 300mm FROM PROPOSED SURFACE LEVELS.
- E8

EARTHWORKS QUANTITIES

ASSUMED STRIPPED TOPSOIL (150mm) = 477m³

TOTAL CUT VOLUME = 195m³

TOTAL FILL VOLUME = 1,685m³

EXCESS FILL VOLUME = 1,490m³

EARTHWORKS DEPTH RANGE

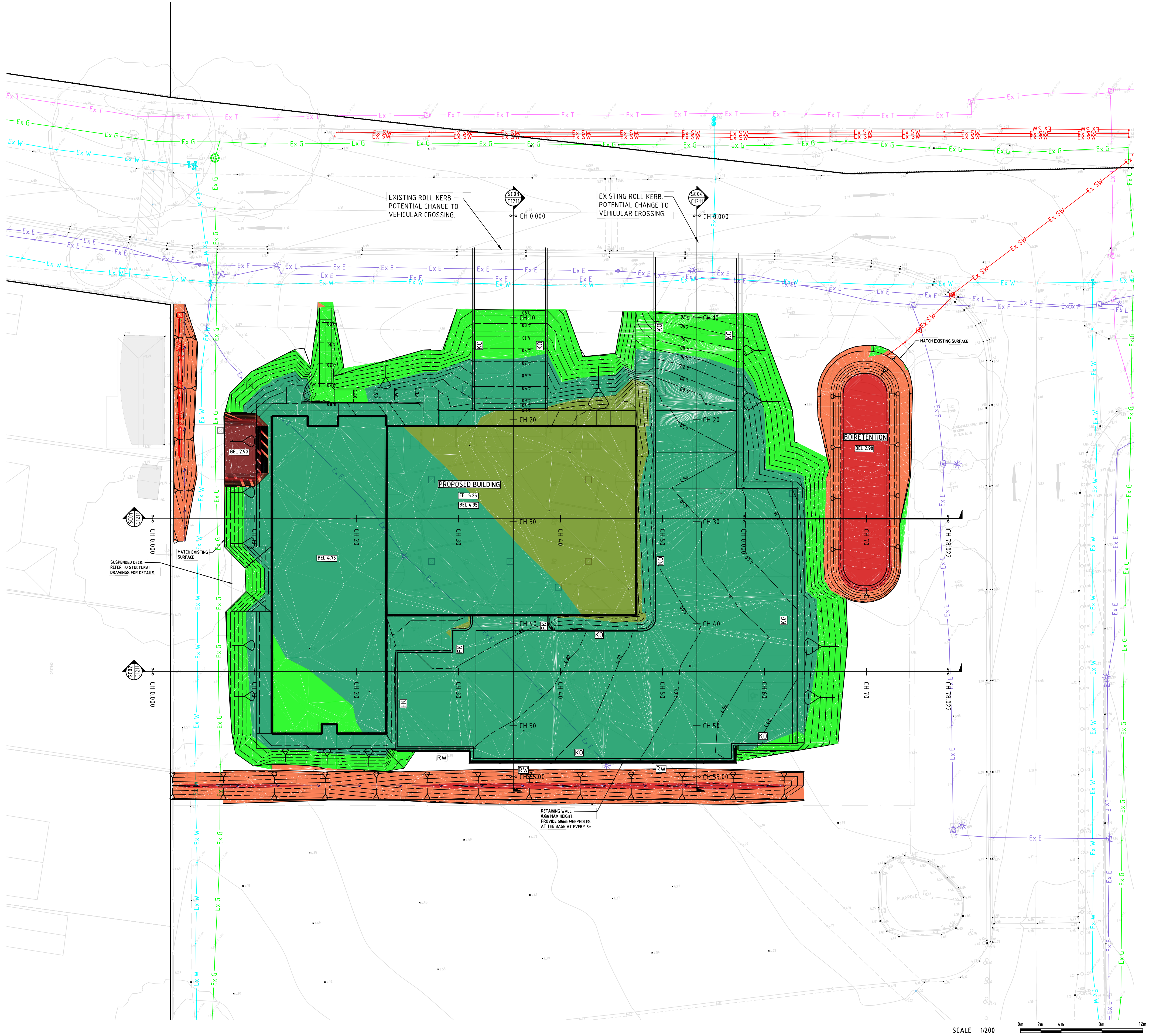
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-1.0	to -0.5	m
-0.5	to 0	m
0	to 0.5	m
0.5	to 1.0	m
1.0	to 10	m

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

WARNING
BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

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Project Name
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INNOVATION WAY, FAIRY MEADOW
NSW, 2519, LOT1: DP1172135

Drawing Title
BULK EARTHWORKS PLAN

AFC			
Designed	LD	Approved	Date
Drawn	DH	TD	APR 2022
Scale	1:200	Project Ref	Drawing No
Date	APR 2022	12537 01 R23 C1210	Rev
Sheet	A1	P4	



	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

32.00 FINISHED SURFACE CONTOUR
 PROPOSED RETAINING WALL
 RL 7.25 FINISHED SURFACE LEVEL

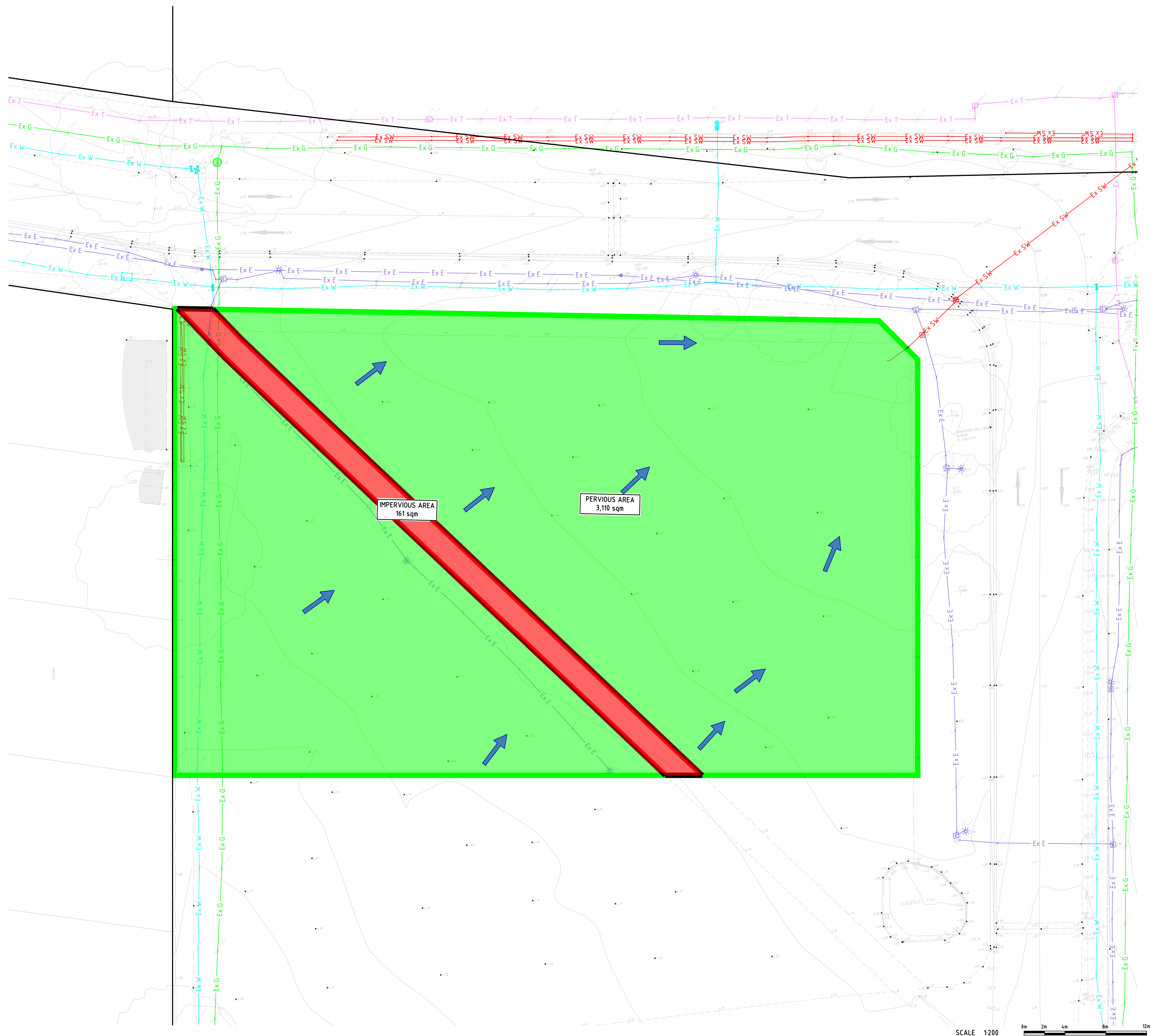
Diagram illustrating the flow direction from an impervious catchment area to a pervious catchment area. The impervious catchment area (red rectangle) is shown above the pervious catchment area (green rectangle). A blue arrow points from the impervious area towards the pervious area, indicating the flow direction.



NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

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P2	ISSUED FOR TENDER	05.08.22	LD	D
P1	ISSUED FOR DA	01.07.22	DH	D

Rev	Description	Date	By	App



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Project Name	RAIR II: FAIRY MEADOW SITE INNOVATION WAY, FAIRY MEADOW NSW, 2519, LOT1: DP1172135
Drawing Title	EXISTING BULK CATCHMENT PLAN

AFC

Designed	LD	Approved	Date	Noted
Drawn	DH	TD	APR 2022	
Scale	1:200	Project Ref	Drawing No	Revision
Date	APR 2022	12537 01 R23 C1240 PA		
Sheet	A1			

Legend:

- SITE BOUNDARY
- EX SURFACE LEVEL
x 24.50
- EX SURFACE CONTOUR
5.00
- EX TREE
- EXISTING STORMWATER DRAINAGE LINE
Ex SW
- EXISTING SEWER LINE
Ex S
- EXISTING WATER MAIN
Ex W
- EXISTING GAS LINE
Ex G
- EXISTING TELECOMMUNICATIONS LINE
Ex T
- EXISTING ELECTRICAL LINE
Ex E
- EXISTING UNKNOWN SERVICE
x x

 FINISHED SURFACE CONTOUR
 PROPOSED RETAINING WALL
 FINISHED SURFACE LEVEL

IMPERVIOUS CATCHMENT AREA

PERVIOUS CATCHMENT AREA

CATCHMENT FLOW DIRECTION



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P1	ISSUED FOR DA	01.07.22	DH	

Rev	Description	Date	By	Appr
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Rev	Description	Date	By	Amount
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P4	ISSUED FOR AFC	16.11.22	LD	30.09.22
P3	ISSUED FOR AFC	30.09.22	LD	05.08.22
P2	ISSUED FOR TENDER	05.08.22	LD	01.07.22
P1	ISSUED FOR DA	01.07.22	DH	

Rev	Description	Date	By	App

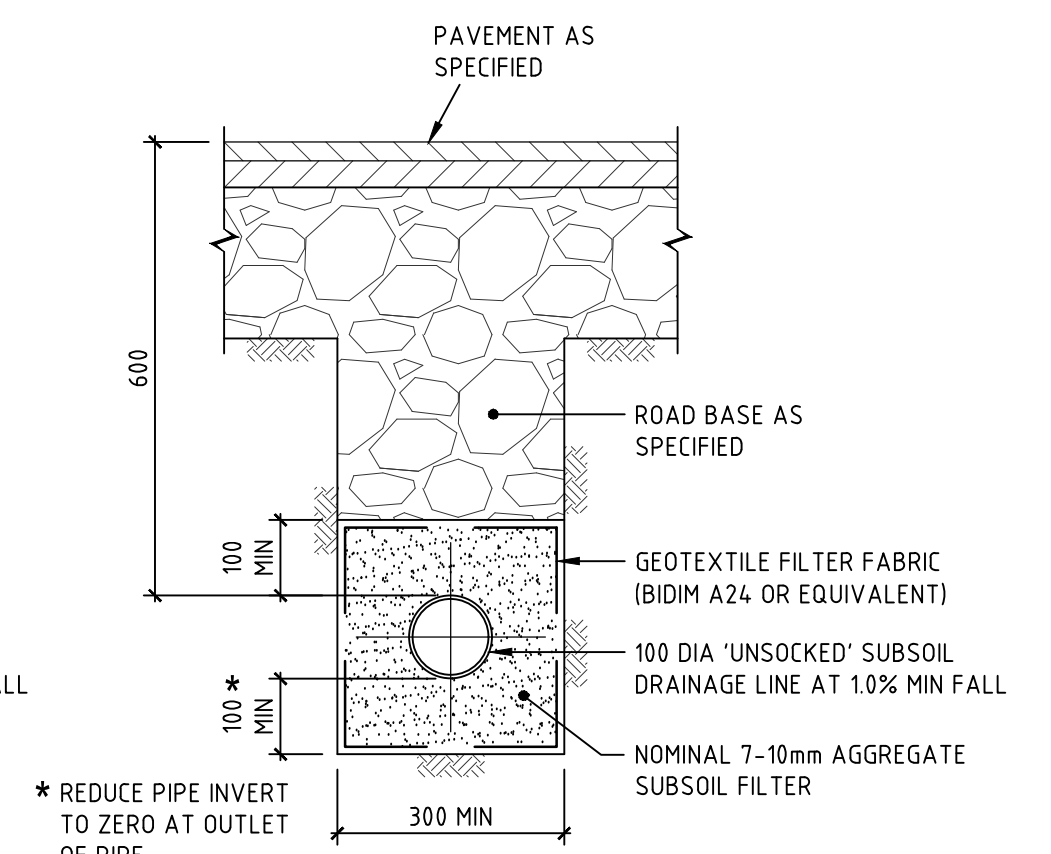
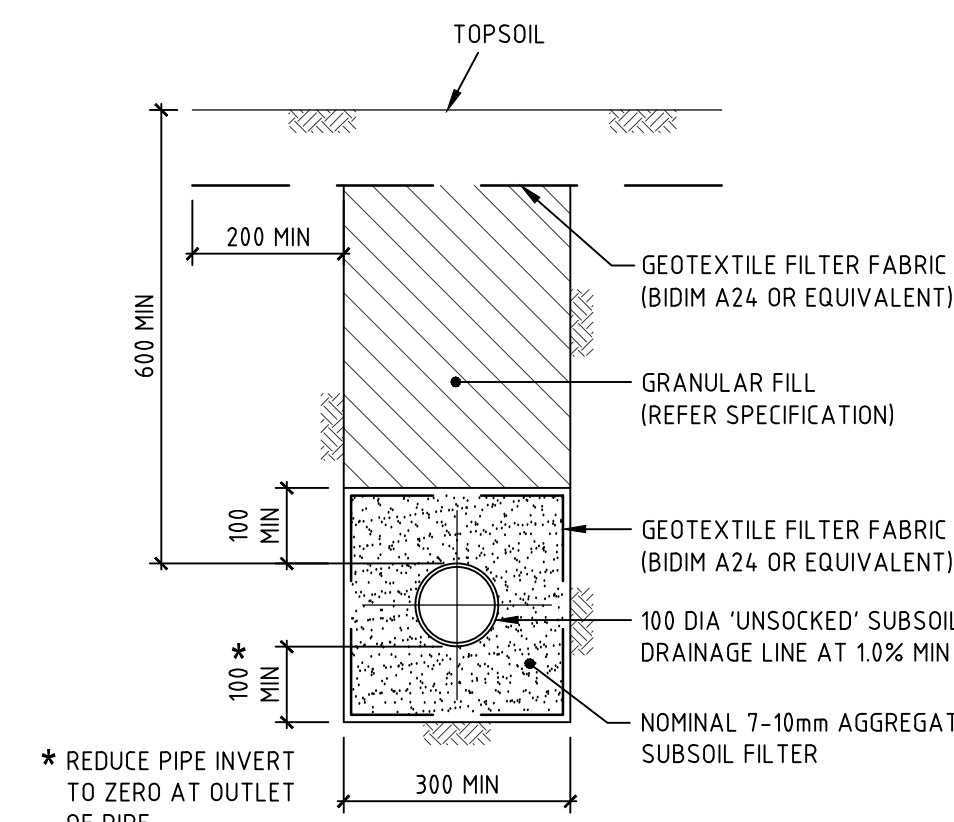
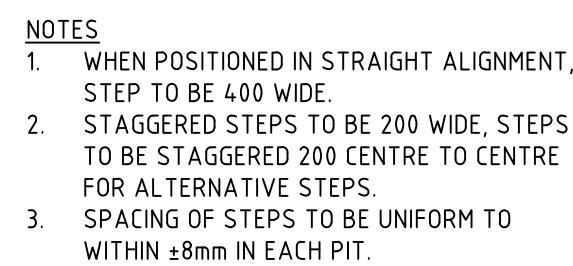
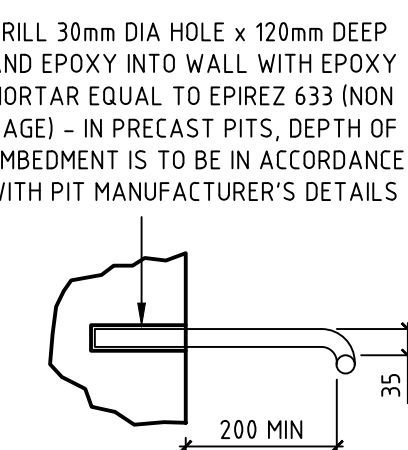
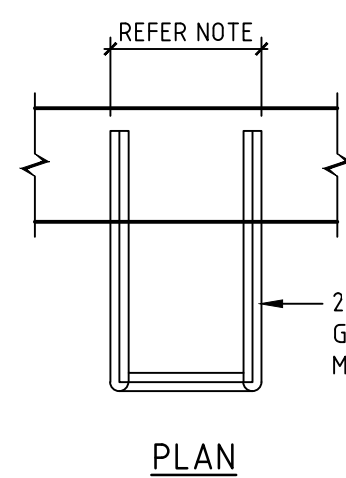
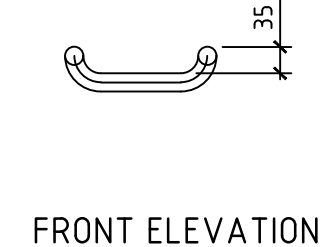
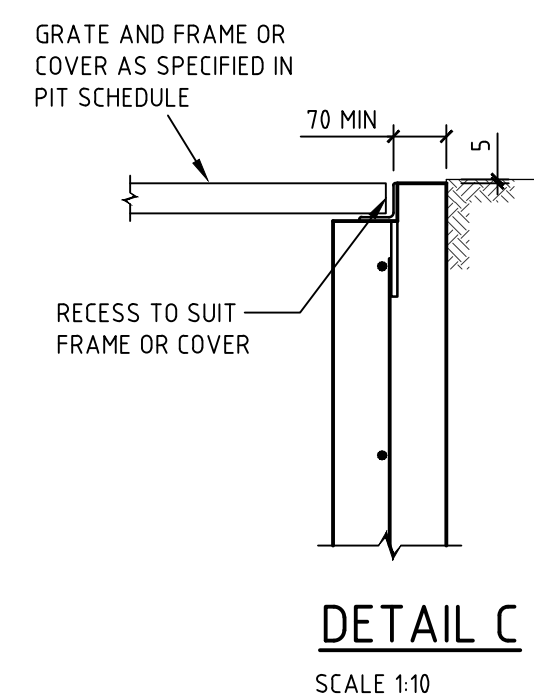
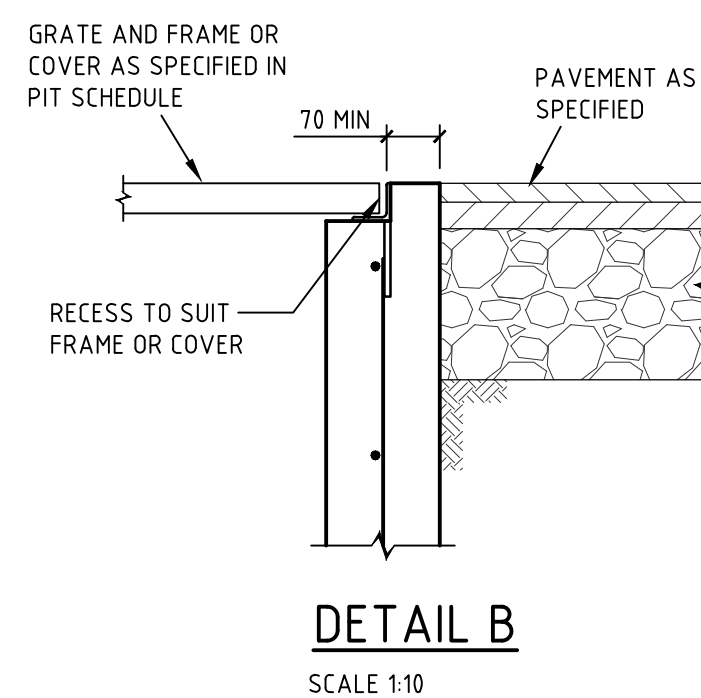
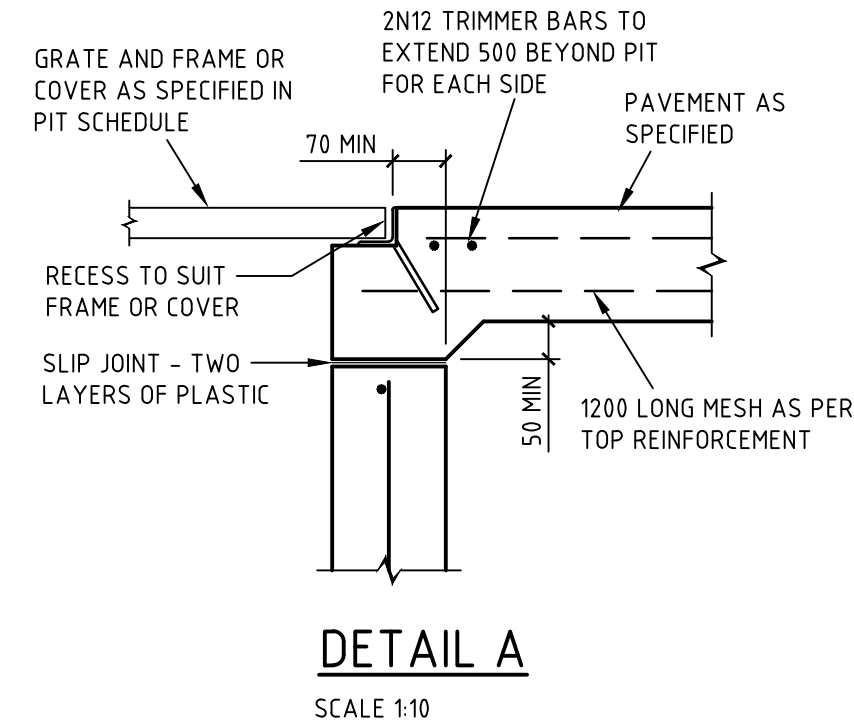
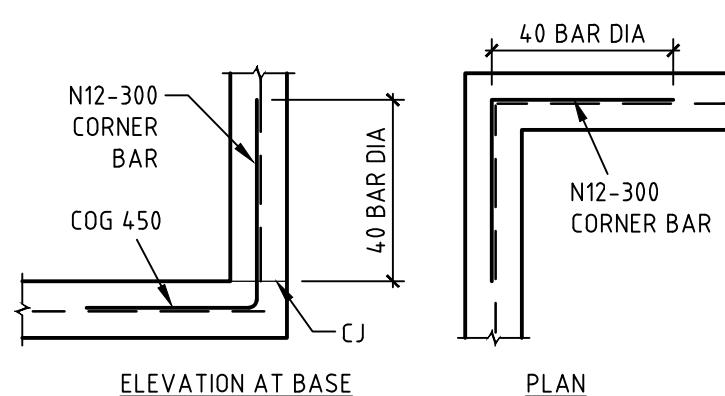
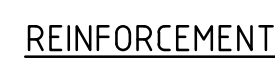
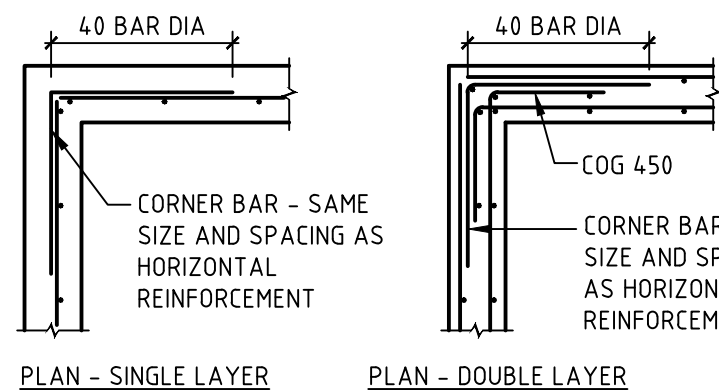
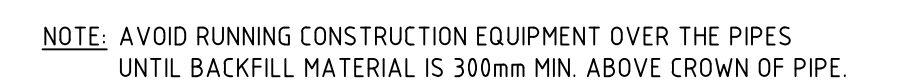
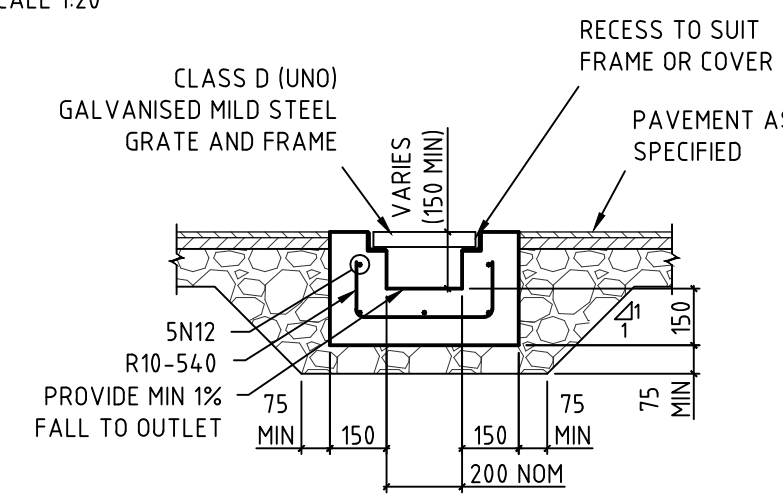
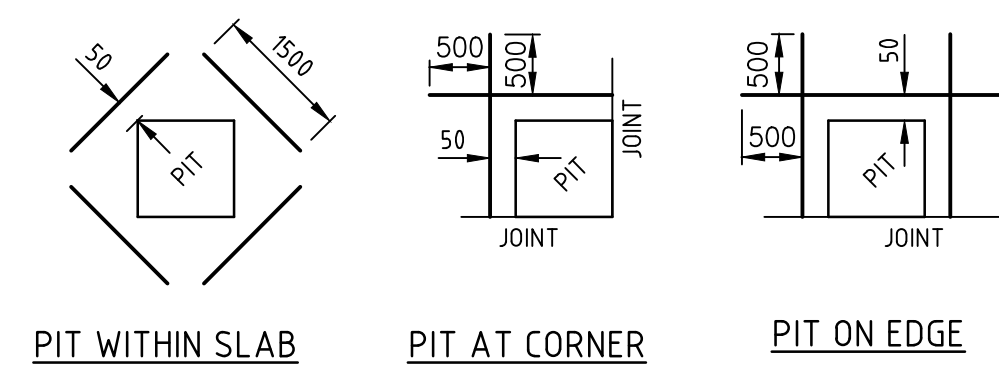
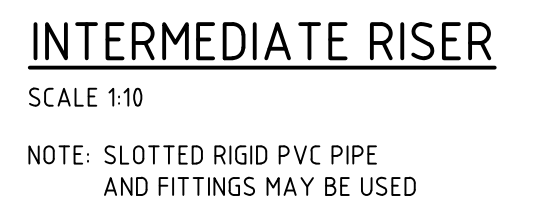
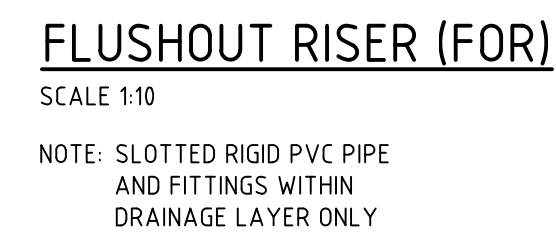
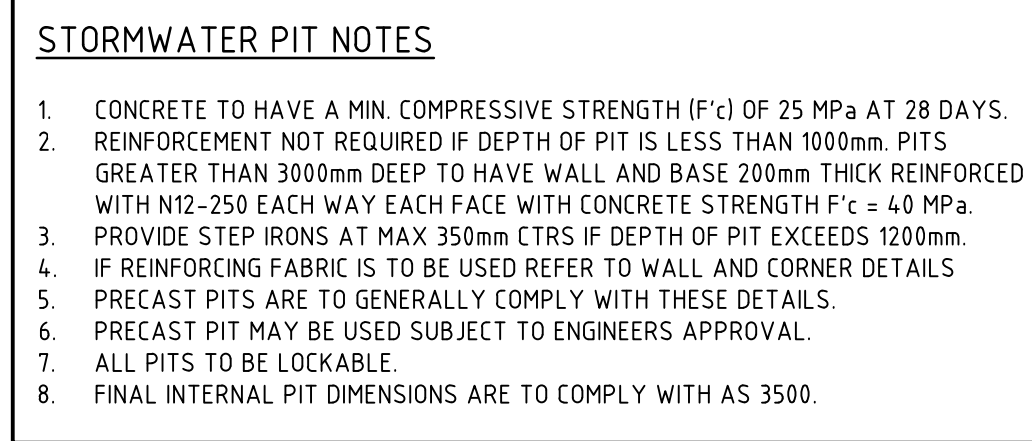


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Drawing Title	PROPOSED BULK CATCHMENT PLAN

AFC

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Date	APR 2022	12537 01 R23 C1241	
Sheet	A1		



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Drawing Title	STORMWATER DRAINAGE DETAILS

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Designed LD	Approved	Date	North
Drawn DH	TD	APR 2022	
Scale AS SHOWN	Project Ref	Drawing No	Rev
Date APR 2022	12537 01 R23 C1250 P4		
Sheet A1			



SCALE 1:100



SCALE 1:50

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Sheet	A1	12537 01 R23 C1252	P4

PAVEMENT LEGEND

- NOTES
- CONCRETE PAVEMENT SHALL CONFORM TO AS2150 AND THE SPECIFICATIONS
 - GEOTECHNICAL REPORT BY JK GEOTECHNICS PTY LTD DATED 10 NOVEMBER (REF 34.04.4RFrpt)

PAVEMENT TYPE
CONCRETE PAVEMENT

PAVEMENT TYPE 7
CONCRETE FOOTPATH PAVEMENT

CONCRETE VEHICULAR CROSSING
TO COUNCIL STANDARD DETAILS

SJ

SAWCUT JOINT

EJ

EXPANSION JOINT

DEJ

DOWELLED EXPANSION JOINT

KJ

KEYED CONSTRUCTION JOINT

TCJ

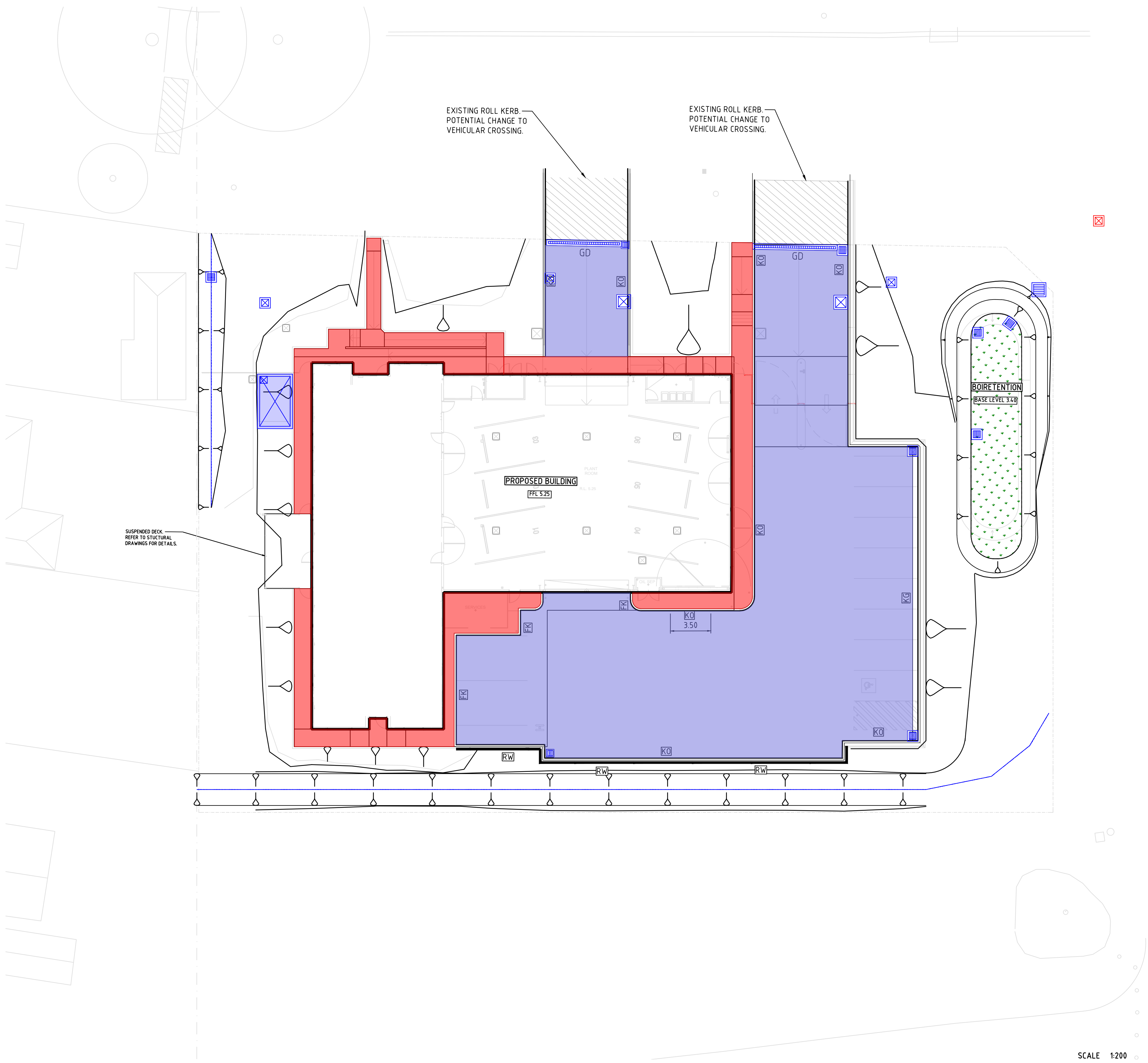
TRANSVERSE CONTRACTION JOINT

LWJ

LONGITUDINAL WARPING JOINT

IJ

ISOLATION JOINT



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SCALE 1:10



SCALE 1:10



File: C:\Users\HmatDulay\Creoworld Corporation - Documents\AustraliaClient B1253701C RAIR II02 - WIPICAD\RAIR II - Fairy Meadow\1253701C - R23-C1270.dwg Plotted: 28.04.23 at 7:01 pm By: HmatDulay