

TBM POINTS & LOCATIONS				
Name	Type	Easting	Northing	RL
C17PIPEG	SURVEY PIPE	291724.7	5809039.78	-
C374RVTKL	RIVET	291874.44	5808758.78	45.43
C428RVTKL	RIVET	291963.57	5808824.68	45.65

PSM POINTS & LOCATIONS			
Name	Easting	Northing	RL
C373PML	292048.18	5808966.57	47.64
C382PML	291859.36	5808748.89	45.37
C429PML	291961.31	5808803.38	45.47

ALAMORA

STAGE 32

WYNDHAM CITY COUNCIL

NOTES:

GENERAL:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS, CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS AND VPA EDM GUIDELINES TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT & A.S.2124-1992 GENERAL CONDITIONS OF CONTRACT.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED IN PARTICULAR THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORK COVER AUTHORITY - HEALTH AND SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE ENGINEER THE EXACT LOCATION OF ALL PROPOSED SERVICES PRIOR TO THE INSTALLATION OF CONDUITS. ALL WORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS AND THE VARIOUS AUTHORITIES ARE TO BE NOTIFIED. SHOULD ANY EXISTING SERVICES BE DAMAGED DURING CONSTRUCTION WORKS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR REPAIRS. ALL COSTS FOR THIS SHALL BE BORNE BY THE CONTRACTOR.
- PRIOR TO COMMENCING WORK ON TRENCHES IN EXCESS OF 1.50m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE SENT TO THE SECRETARY OF MINERALS AND ENERGY IN ACCORDANCE WITH CLAUSE 202 OF THE MINES (TRENCHES) REGULATIONS 1982. A FOREMAN QUALIFIED AS A MINES MANAGER MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATION WORKS.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION TO PROTECT THE PUBLIC FROM THE WORKS.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP & GRADED OVER AND ALL RUBBISH IS TO BE REMOVED, THE SITE IS TO BE LEFT CLEAN & TIDY AND TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE 'AS CONSTRUCTED' PLANS IN A D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.
- THE INFRASTRUCTURE MANAGER OR HIS REPRESENTATIVE SHALL BE GIVE ACCESS TO THE SITE AT ALL TIMES. ALL CONSTRUCTION WORKS SHALL BE COMPLETED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- BLASTING REQUIRES BLASTING PERMIT FROM COUNCIL.
- ANY EXISTING PAVEMENT OR DRAINAGE DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD IS TO BE REINSTATED BY THE CONTRACTOR TO THE SATISFACTION OF THE SUPERINTENDENT.

SURVEY & SETOUT:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- PERMANENT SURVEY MARK SKETCH PLANS ARE TO BE PREPARED ESTABLISHING A.H.D. LEVELS AND A.M.G. CO-ORDINATES FOR REGISTRATION WITH THE C.P.O. BY A LICENSED SURVEYOR.
- ALL TBMS AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE REINSTATEMENT AT THE CONTRACTORS EXPENSE.

EARTHWORKS:

- EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH A.S.3798-2007 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS). FILLING TO BE CARRIED OUT USING APPROVED CLAY FILL COMPACTED TO 95% ASHOD. DAMS AND OPEN CHANNELS TO BE EXCAVATED TO A FIRM BASE TO THE SATISFACTION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING. ALL FILLING MUST COMPLY WITH A.S. 3798-2007 LEVEL 1 AND BE COMPACTED IN 150mm LAYERS. CONTRACTOR TO TAKE LEVELS IN EXISTING DAMS AND CHANNELS PRIOR TO FILLING & LEVELS RECORDED TO BE SUPPLIED TO THE ENGINEER FOR AS CONSTRUCTED PLAN.
- FILLING TO BE CARRIED OUT USING APPROVED MATERIAL. TOPSOIL AND ALL VEGETABLE MATERIAL TO BE STRIPPED FROM FILL SITE PRIOR TO ANY PLACEMENT OF MATERIAL. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, THEN REPLACED TO OBTAIN FINAL LEVELS AS SHOWN ON THE DRAWINGS. ALL FILLING TO BE COMPACTED AS SPECIFIED.
- NO TOP SOIL TO BE REMOVED FROM THE SITE WITHOUT THE APPROVAL OF COUNCIL.
- THE NATURE STRIPS IN CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED TOPSOIL MATERIAL. IF THE SOIL ON THE SITE, IS NOT SUITABLE, IT SHALL BE IMPORTED AT THE CONTRACTORS EXPENSE. THE APPROVED TOPSOIL MATERIAL IS TO BE TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- ALL ALLOTMENTS TO BE GRADED AT A MINIMUM OF 1 IN 150 TO THE LOW CORNER. UNLESS OTHERWISE SHOWN BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6. ALL BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION. ALL TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- FOR THE TERM OF THE CONTRACT PERIOD THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PREVENT THE EMISSION OF DUST, WHETHER FROM THE OPERATION OF CONSTRUCTION EQUIPMENT OR EXPOSURE OF SOIL TO WINDS.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING CONSTRUCTION AND MAINTENANCE PERIOD.
- ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO. 275).
- COMPACTION RESULTS OF EASEMENTS TO BE PROVIDED TO COUNCILS CONSTRUCTION ENGINEER.

ROADS:

- ALL DIMENSIONS AND RADII ARE GIVEN TO LIP OF KERBS, CHAINAGES ARE WITH RESPECT TO CENTRE LINE OF ROAD RESERVE, UNLESS OTHERWISE SHOWN.
- ALL PAVEMENT MATERIALS ARE TO BE VICROADS APPROVED MATERIALS.
- PAVEMENT SUB-BASE AND BEDDING TO KERB & CHANNEL IS TO EXTEND 600mm BEHIND BACK OF KERB.
- ALL SERVICES ARE TO BE CONSTRUCTED PRIOR TO PLACEMENT OF CAPPING LAYER UNDER ROADS.
- ALL DRIVEWAYS ARE TO BE 3.5m WIDE AND OFFSET 0.75m FROM THE SIDE BOUNDARY OR EASEMENT, UNLESS OTHERWISE SHOWN - REFER EDM 501 & 502. DRIVEWAY LAYBACK AND WINGS TO BE CONSTRUCTED AS A SINGLE SEGMENT OF CONCRETE.
- ACCESS RAMPS (DRIVEWAYS INTO LOTS) SHOULD HAVE A MAXIMUM GRADE OF 1 IN 10.
- CONCRETE SHALL BE 25 MPa FOR BOTH KERB AND CHANNEL AND FOOTPATH, HAVING A MINIMUM CEMENT CONTENT OF 280kg PER CUBIC METRE.
- FOOTPATHS AND VEHICLE CROSSINGS TO BE DOWELLED AT THE END OF EACH DAY'S POUR OF CONCRETE.
- SIGNS, LINEMARKING AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE ON ROADS IN ACCORDANCE WITH A.S.1742.2.
- STREET SIGNS ARE TO BE PROVIDED TO THE WYNDHAM CITY COUNCIL STANDARD, INCLUDING THE PROVISION OF LOGOS.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER ON ALL ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE THE LOCATION OF ALL FIREPLUGS.

DRAINAGE:

- DRAINAGE PIPES SHALL BE RUBBER RING JOINTS REINFORCED CONCRETE CLASS 2, UNLESS OTHERWISE SHOWN.
- ALL PVC STORM WATER DRAINAGE PIPES TO BE SEWER QUALITY PVC.
- NO PVC STORM WATER DRAINAGE PIPES TO BE LAID UNDER ROADS.
- DRAINAGE PIPES AND PITS ARE SETOUT FROM OFFSETS, RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CURVILINEAR DRAINAGE PIPES MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURES GUIDELINES.
- DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007. LOADS ON BURIED PIPES.
- PROPERTY INLET PITS ARE TO BE LOCATED 1.00m FROM LOW SIDE BOUNDARY, UNLESS OTHERWISE SHOWN. INVERTS OF PROPERTY INLETS ARE TO BE A MINIMUM OF 400mm BELOW FINISHED SURFACE.
- HOUSE DRAINS ARE TO BE CONNECTED DIRECTLY INTO UNDERGROUND DRAINAGE PIPES OR PITS AND OFFSET FROM SIDE BOUNDARY 5.50m WHERE POSSIBLE AS PER EDM 701. THE LOCATION OF THE HOUSE DRAIN TO BE MARKED AS PER EDM 303. HOUSE DRAIN LEVEL TO BE A MINIMUM 0.4m BELOW THE LOWEST CORNER OF THE LOT.
- ALL DRAINAGE PIPES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKFILLED WITH CLASS 3 F.C.R.
- PRIOR TO THE ISSUE OF STATEMENT OF COMPLIANCE, ALL DRAINS ARE TO BE CCTV TESTED AND THE RESULTS PROVIDED TO COUNCIL.
- SUBSURFACE DRAINS ARE TO BE LAID BEHIND ALL KERB AND CHANNEL AS PER EDM 202.
- WHEN ROADS ARE TRUNCATED AGAINST RISING LAND PENDING DEVELOPMENT OF FUTURE STAGES, TEMPORARY A.G. DRAINS SHALL BE INSTALLED ACROSS THE END OF THE ROAD TO PREVENT SEEPAGE INTO PAVEMENT.
- WHERE DRAINAGE AND SEWER PIPE ARE IN CLOSE PROXIMITY, COMPACTION TO BE ACCORDANCE WITH SD6-10.

UTILITIES:

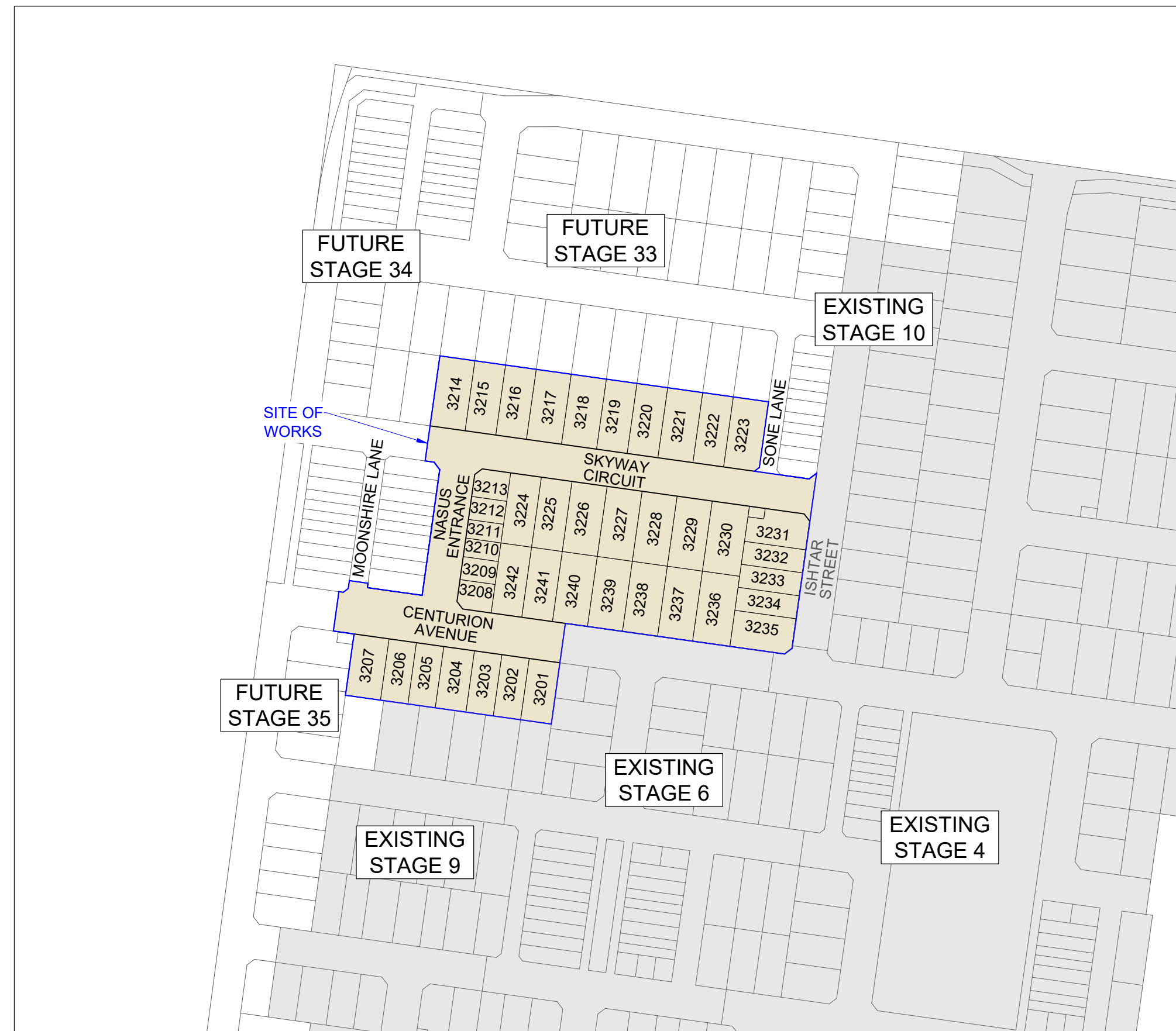
- SERVICE CONDUITS ARE TO BE INSTALLED AT THE LOCATIONS SHOWN ON THIS DRAWING. LOCATION OF ALL UNDERGROUND SERVICE CONDUITS TO BE MARKED ON KERB & CHANNEL AS PER EDM 303. SERVICE CONDUITS THAT ARE SUBJECT TO AMENDMENT SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT.
- ALL CONDUIT TRENCHES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKFILLED WITH CLASS 2 F.C.R.
- NBN TO BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- NBN PITS ARE TO BE CLEAR OF PATHS - WITH THE EXCEPTION OF NEMI PARADE (WEST SIDE).
- LOCATION OF ELECTRICITY AND VUF CONDUITS WILL BE PROVIDED ON SEPARATE DRAWINGS.
- CONCRETE IS TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 125mm. DISTRIBUTION PITS WITHIN FOOTPATHS ARE TO A MINIMUM OF 300mm WITHIN THE EDGE OF PATH.

VEGETATION:

- ALL EXISTING TREES ARE TO BE PROTECTED DURING CONSTRUCTION.
- ANY TREE REMOVAL MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED ON SITE BY THE LANDSCAPE APPROVALS OFFICER TREES SHOWN ON THE PLANS ARE TO BE RETAINED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- ALL ROOTS AND DECOMPOSABLE MATERIAL UNDER ROAD PAVEMENTS SHALL BE REMOVED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- NO SURPLUS TREES OR VEGETATION ARE TO BE BURNT ON SITE.

STRUCTURAL:

- A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURE/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. COPY OF BUILDING PERMITS AND 'CERTIFICATE F COMPLIANCE-CONSTRUCTION' TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.
- ALL STRUCTURAL WORK MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.



LOCALITY PLAN

MELWAYS REF: 234 D4

Drawing Index

Drawing No.	Drawing Title	Revision
R100	COVER SHEET	C
R200	EXISTING CONDITIONS & DEMOLITION	B
R201	LAYOUT PLAN	B
R202	SERVICES PLAN	C
R203	EARTHWORKS PLAN	A
R204	TYPICAL CROSS SECTIONS	B
R300	INTERSECTION DETAILS - 1	A
R301	INTERSECTION DETAILS - 2	B
R400	ROAD LONGITUDINAL SECTIONS - 1	A
R401	ROAD LONGITUDINAL SECTIONS - 2	A
R500	ROAD CROSS SECTIONS - 1	B
R501	ROAD CROSS SECTIONS - 2	A
R502	ROAD CROSS SECTIONS - 3	A
R503	ROAD CROSS SECTIONS - 4	A
R600	DRAINAGE LONG SECTIONS - 1	B
R601	DRAINAGE LONG SECTIONS - 2	B
R602	DRAINAGE LONG SECTIONS - 3	A
R603	DRAINAGE LONG SECTIONS & PIT SCHEDULE	B
R700	PAVEMENT PLAN	B
R701	TYPICAL DETAILS	B
R800	SIGNAGE & LINEMARKING PLAN	A
R900	CONCRETE JOINTING PLAN	B



**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**

NOTE:

THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN No.15676. ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

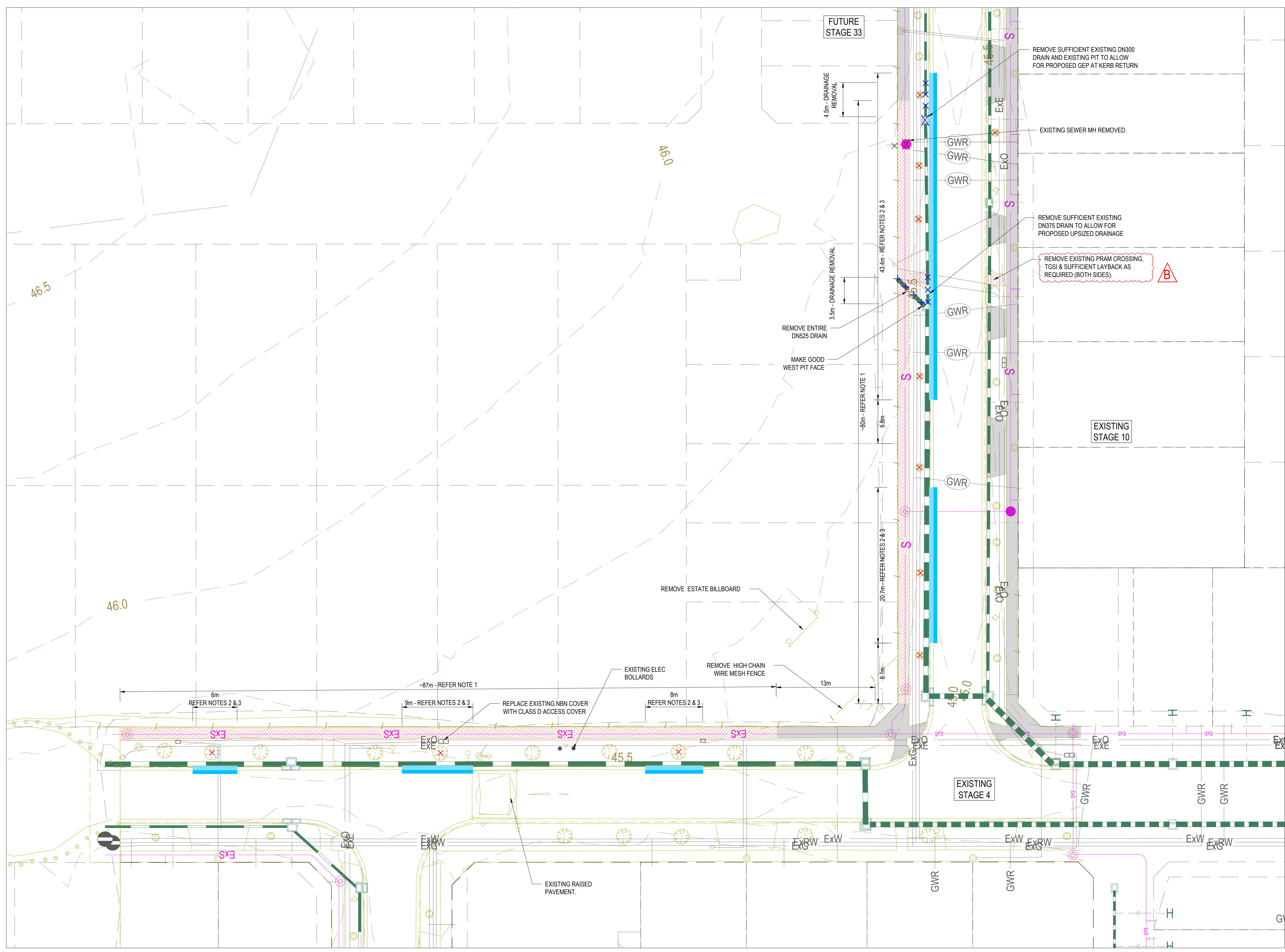
THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CUSTOMER	PROJECT	DRAWING TITLE	STATUS	DESIGNED	PROJECT ENGINEER
C	27/08/25	DRAWING INDEX UPDATED - COUNCIL COMMENTS	A.W	A.W	M.T	 Communities Designed for Living		ALAMORA - STAGE 32 COVER SHEET	ISSUED FOR APPROVAL NOT FOR CONSTRUCTION	M.PLANT	A.WALE
B	14/08/25	DRAWING INDEX UPDATED - COUNCIL COMMENTS	M.P	A.W	M.T					M.PLANT	M.TROUNCE
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T					SCALE @ A1: 1:2000 	PROJECT No: 200282.32

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LEGEND - EXISTING CONDITIONS PLAN

- EXISTING STORMWATER DRAIN
- EXISTING HOUSE DRAIN
- EXISTING SEWER
- EXISTING SERVICE CONDUITS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN
- EXISTING PAVEMENT, KERB & CHANNEL, FOOTPATH & CROSS OVER
- RIDGE LINE
- EXISTING CONTOURS (200mm INCREMENT)

- NOTE 1: SAWCUT EXISTING FOOTPATH & REMOVE AND DISPOSE OFF SITE.
- NOTE 2: SAWCUT EXISTING K&C & REMOVE AND DISPOSE OFF SITE.
- NOTE 3: SAWCUT EXISTING ASPHALT WEARING COARSE & REMOVE 300mm WIDE AND DISPOSE OFF SITE.
- REMOVE & DISPOSE EXISTING TREE
- REMOVE & DISPOSE EXISTING DRAINAGE PIPE / PIT
- REMOVE & DISPOSE EXISTING SEWER PIPE / STRUCTURE

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

NOTE:
 CONTRACTOR IS TO VERIFY ALL CONNECTION LEVELS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY CREO CIVIL IF THERE ARE DIFFERENCES

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
 The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	TGSI REMOVAL NOTE ADDED ON ISHTAR STREET - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
 Newtown, VIC, Australia 3220

DRAWING TITLE

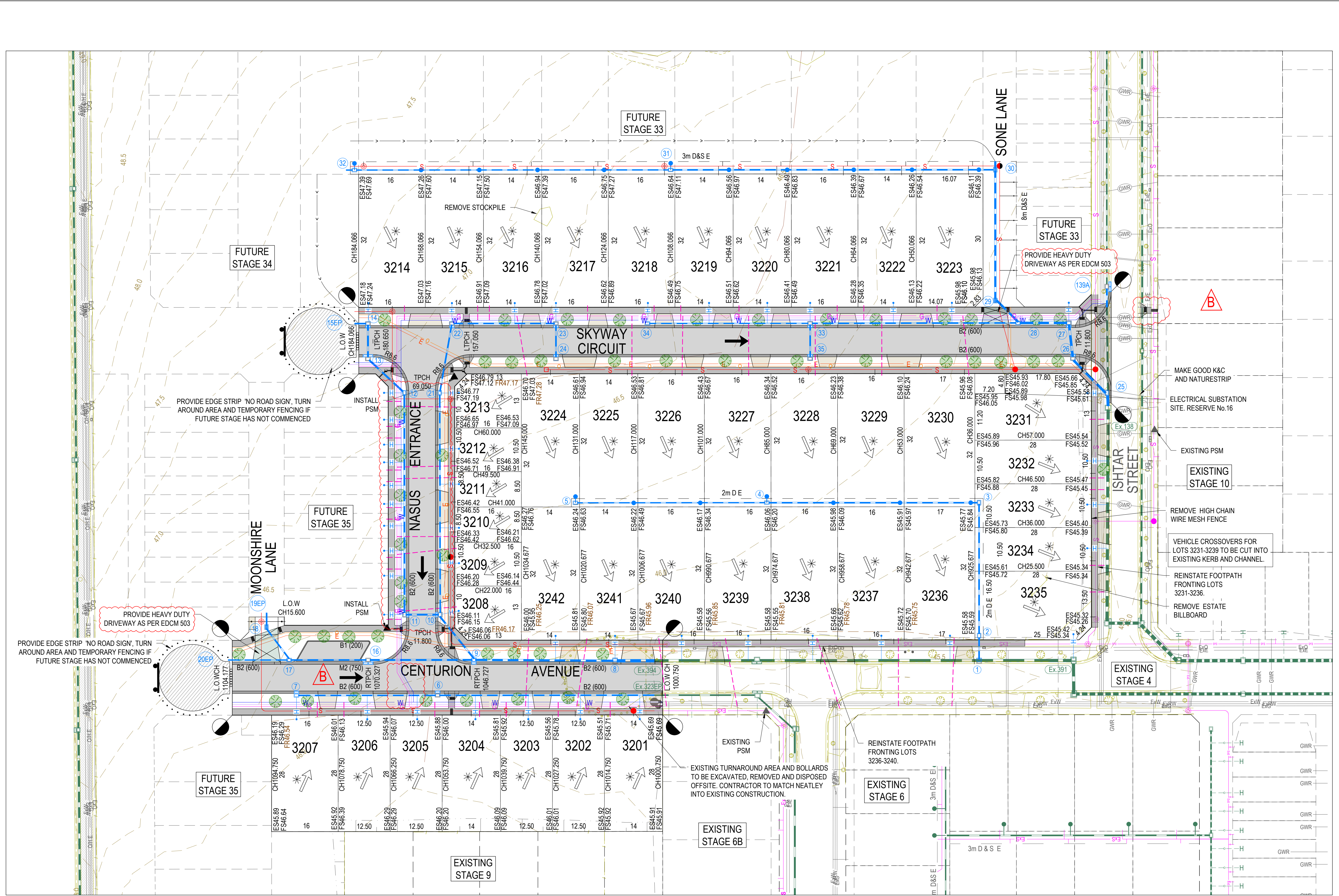
ALAMORA - STAGE 32
EXISTING CONDITIONS & DEMOLITION

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:250

DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	R200
REVISION			B



LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET PIT
- EXISTING STORMWATER DRAIN
- EXISTING HOUSE DRAIN
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- EXISTING SEWER
- HOUSE DRAIN
- SERVICE CONDUITS
- PROPOSED ELECTRICITY (UNDERGROUND)
- PROPOSED GAS
- PROPOSED OPTIC FIBRE
- PROPOSED TELSTRA
- PROPOSED WATER
- PROPOSED RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & CROSS OVER
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & HEAVY DUTY CROSS OVER
- RIDGE LINE
- EXISTING CONTOURS (200mm INCREMENT)
- TACTILE PAVERS

**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
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Date 20/11/2025**

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NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

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B	14/08/25	TGSI ADDED ON ISHTAR STREET - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

villawood properties
Communities Designed for Living

creo CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

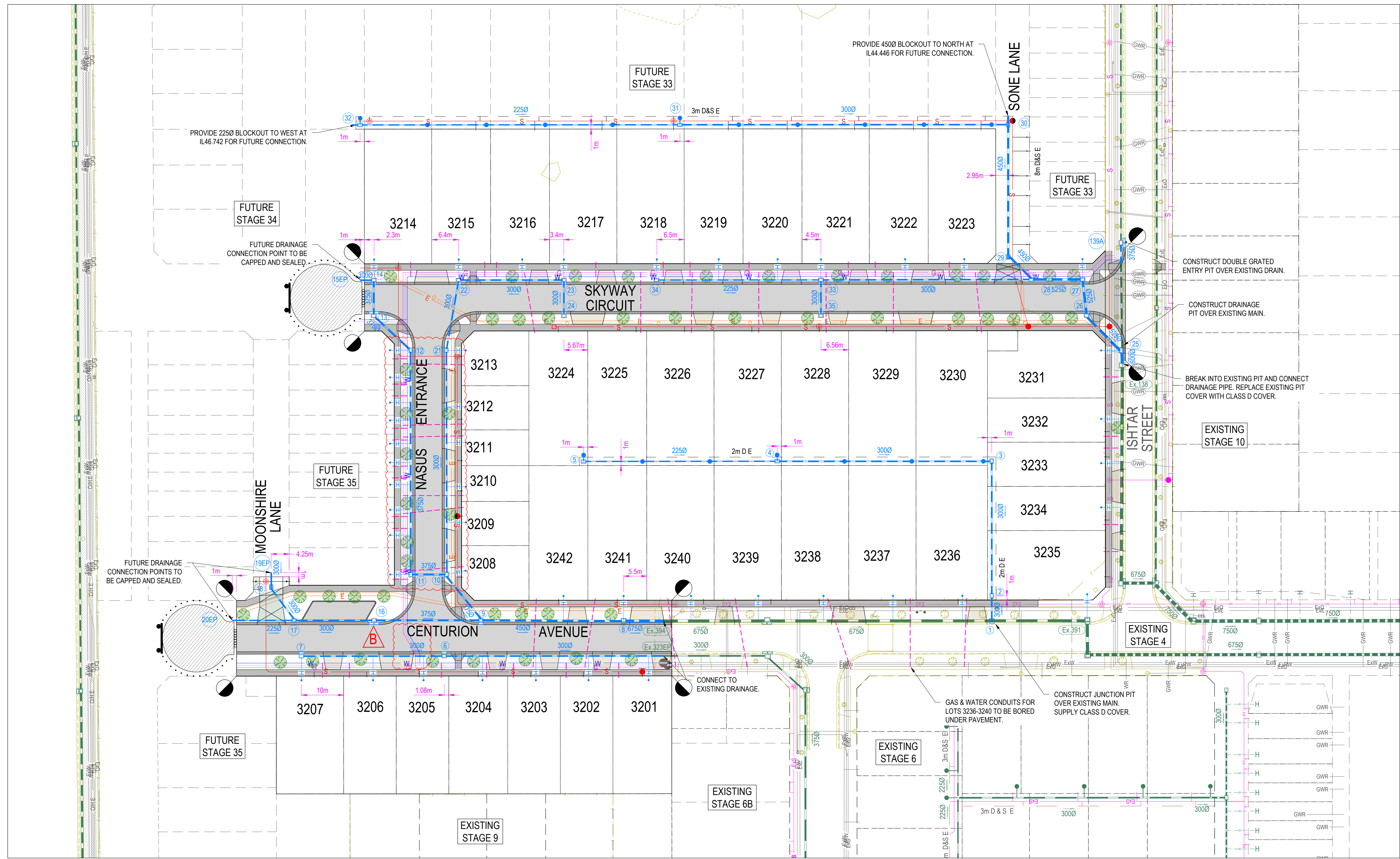
ALAMORA
Jarrett

**ALAMORA - STAGE 32
LAYOUT PLAN**

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R201	B



LEGEND - SERVICES PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- EXISTING STORMWATER DRAIN
- SEWER & MAINTENANCE STRUCTURES
- EXISTING SEWER
- HOUSE DRAIN
- SERVICE CONDUITS
- PROPOSED ELECTRICITY (UNDERGROUND)
- PROPOSED GAS
- PROPOSED OPTIC FIBRE
- PROPOSED TELSTRA
- PROPOSED WATER
- PROPOSED RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- STORMWATER PIT SETOUT POINT

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- SUPPLEMENTARY NOTES:**
- ENSURE PROPERTY CONNECTIONS HAVE MINIMUM 1m OFFSET FROM VEHICLE CROSSINGS.
 - LOTS 3231-3240 TO BE SUPPLIED FROM CONNECTIONS TO EXISTING SERVICES.
 - LOT 3235 PROPERTY CONNECTION TO BE CONSTRUCTED TO EX PIT 391 IN ACCORDANCE WITH EDMC703.
 - WHERE DRAINAGE & SEWER PIPE ARE IN CLOSE PROXIMITY, COMPACTION TO BE IN ACCORDANCE WITH SD6-10. DRAIN LINE 30-31-32.

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY		PUBLIC LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
CENTURION AVENUE	S	2.10	S	2.60	S	3.10	N	1.80	N	2.50	N	1.00*
NASUS ENTRANCE	W	2.10	W	2.60	W	3.10	E	1.80	E	2.40	E	1.00*
SKYWAY CIRCUIT (LOT 3215-3223)	N	2.10	N	2.60	N	3.10	S	1.80	S	2.40	S	1.00*
SKYWAY CIRCUIT (LOT 3214)	S	1.85	S	2.25	S	2.70	N	1.80	N	2.50	N	1.00*
ISHITARA STREET	W	2.10	W	2.60	W	3.10	E	1.80	E	2.50	E	1.00*
MOONSHIRE LANE	-	-	-	-	-	-	-	-	-	-	-	-
SONE LANE	-	-	-	-	-	-	E	1.35	E	2.00	-	-

1. * DENOTES OFFSET FROM BACK OF KERB.

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C	27/08/25	SD6-10 NOTE ADDED - COUNCIL COMMENTS	A.W	A.W	M.T
B	14/08/25	WATER & GAS MOVED CLEAR OF VEHICLE CROSSOVER - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
 Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32 SERVICES PLAN

STATUS

ISSUED FOR APPROVAL NOT FOR CONSTRUCTION

SCALE @ A1: 1:500

DESIGNED

M.PLANT

PROJECT ENGINEER

A.WALE

DRAWN

M.PLANT

PROJECT MANAGER

M.TROUNCE

PROJECT No.

200282.32

DRAWING No.

R202

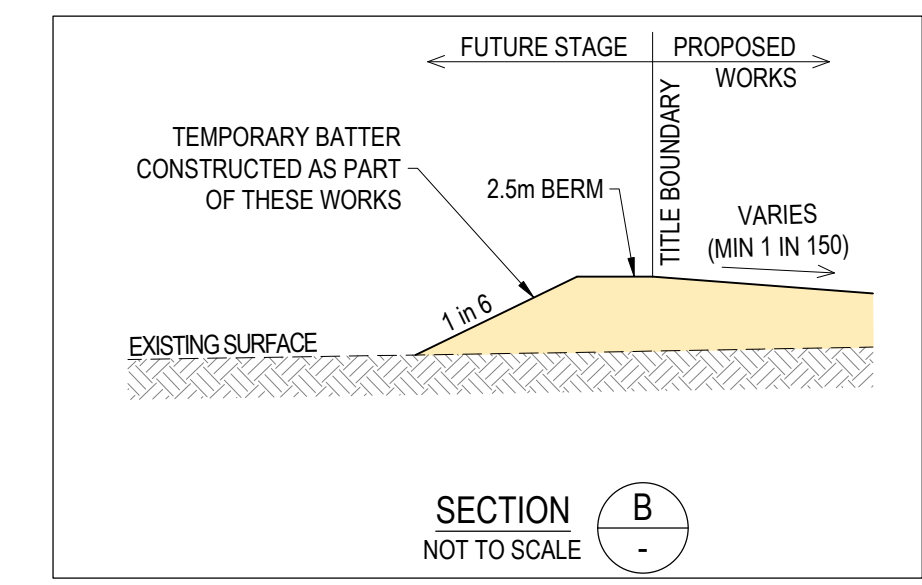
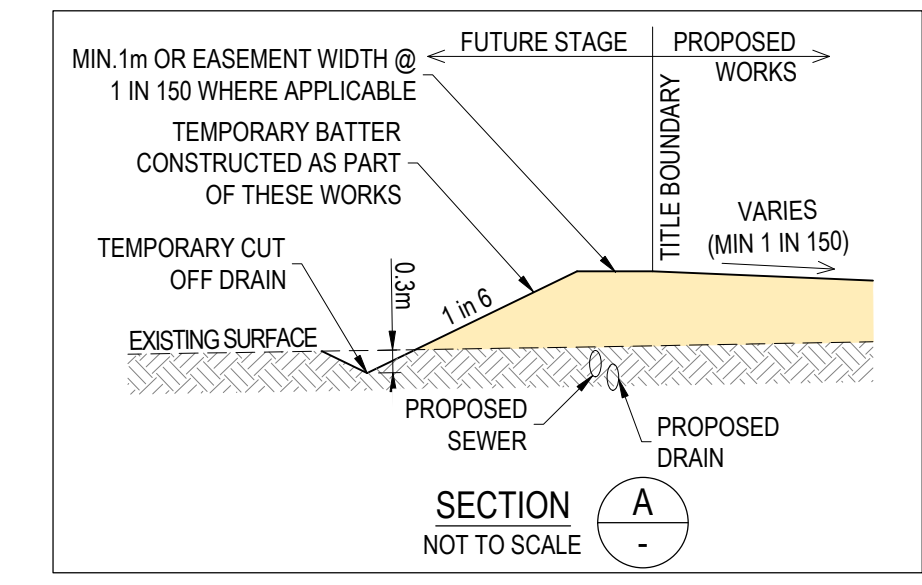
REVISION

C



LEGEND - EARTHWORKS PLAN

- RIDGE LINE
- TOE OF BATTER
- SWALE DRAIN
- ES141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- 0.10m CONTOUR



**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.

CLIENT

Communities Designed for Living

CREO CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

DRAWING TITLE

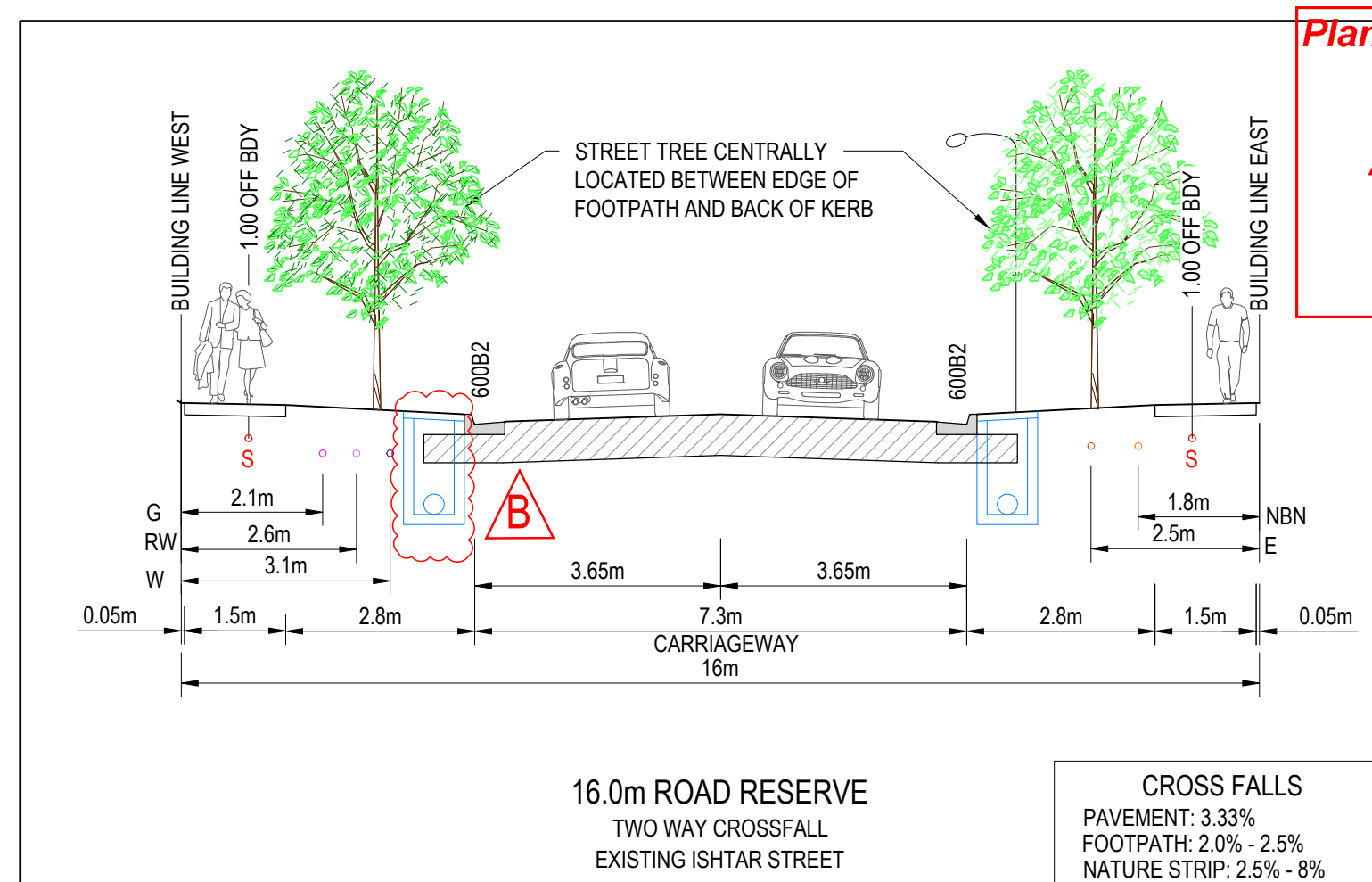
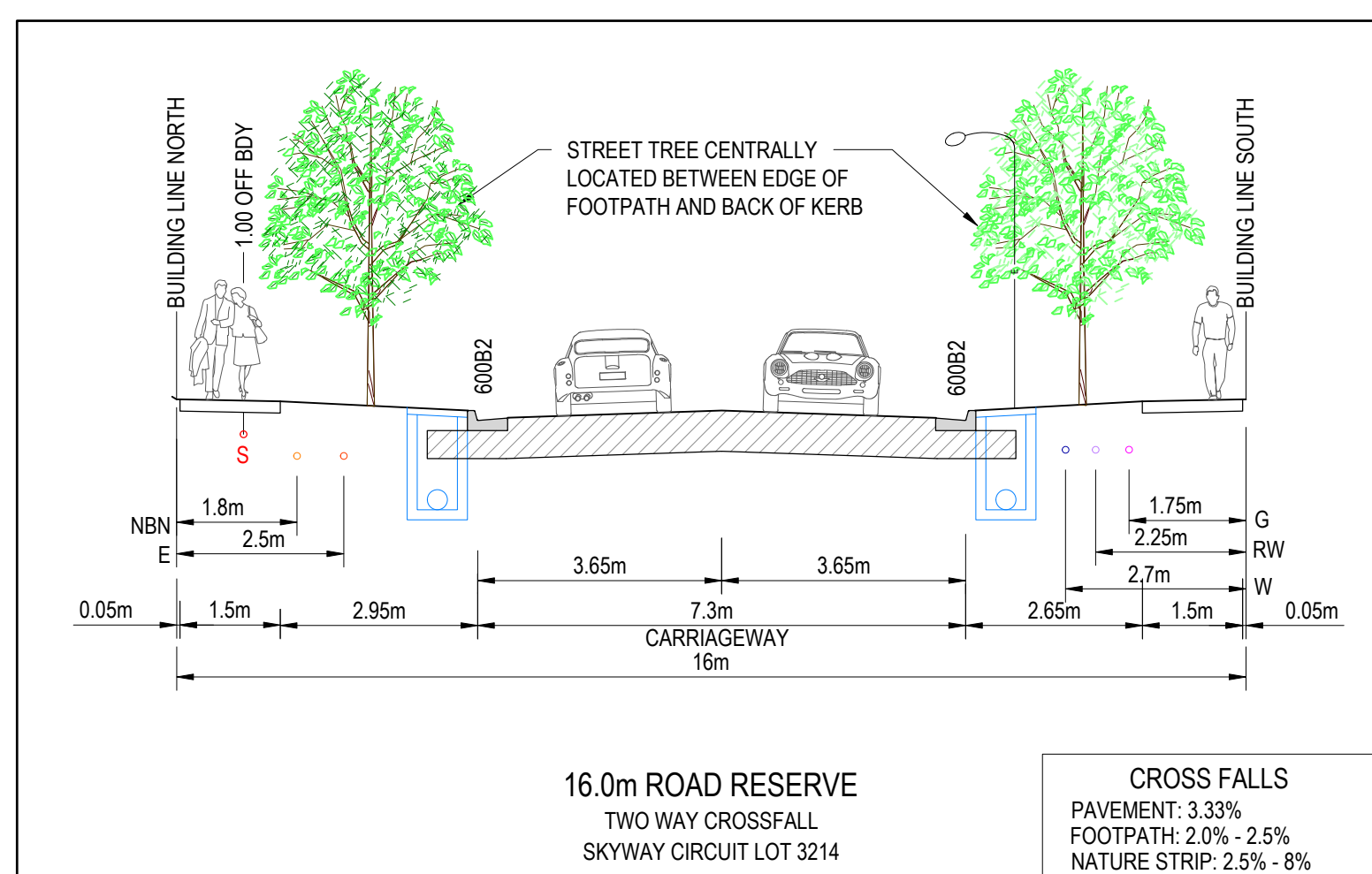
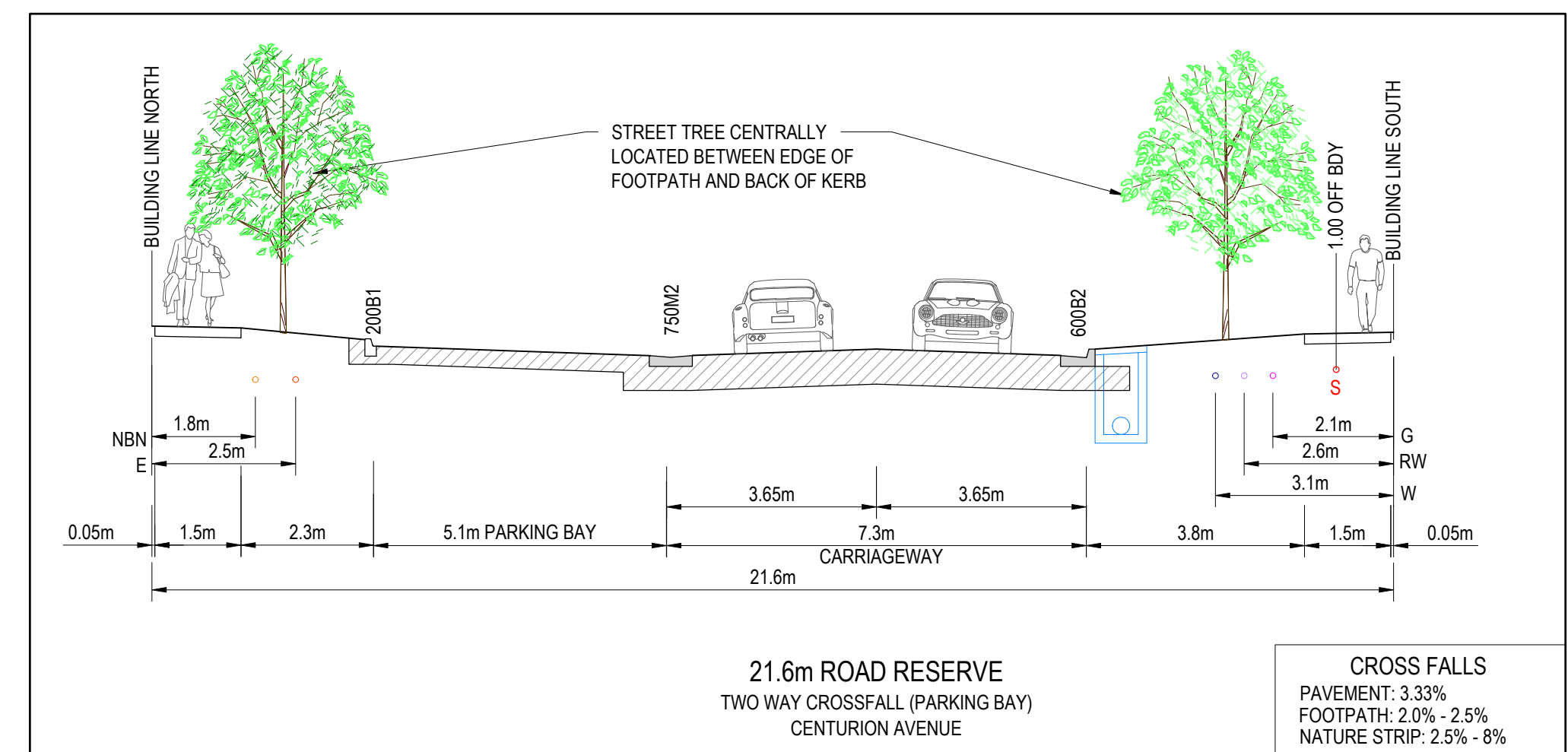
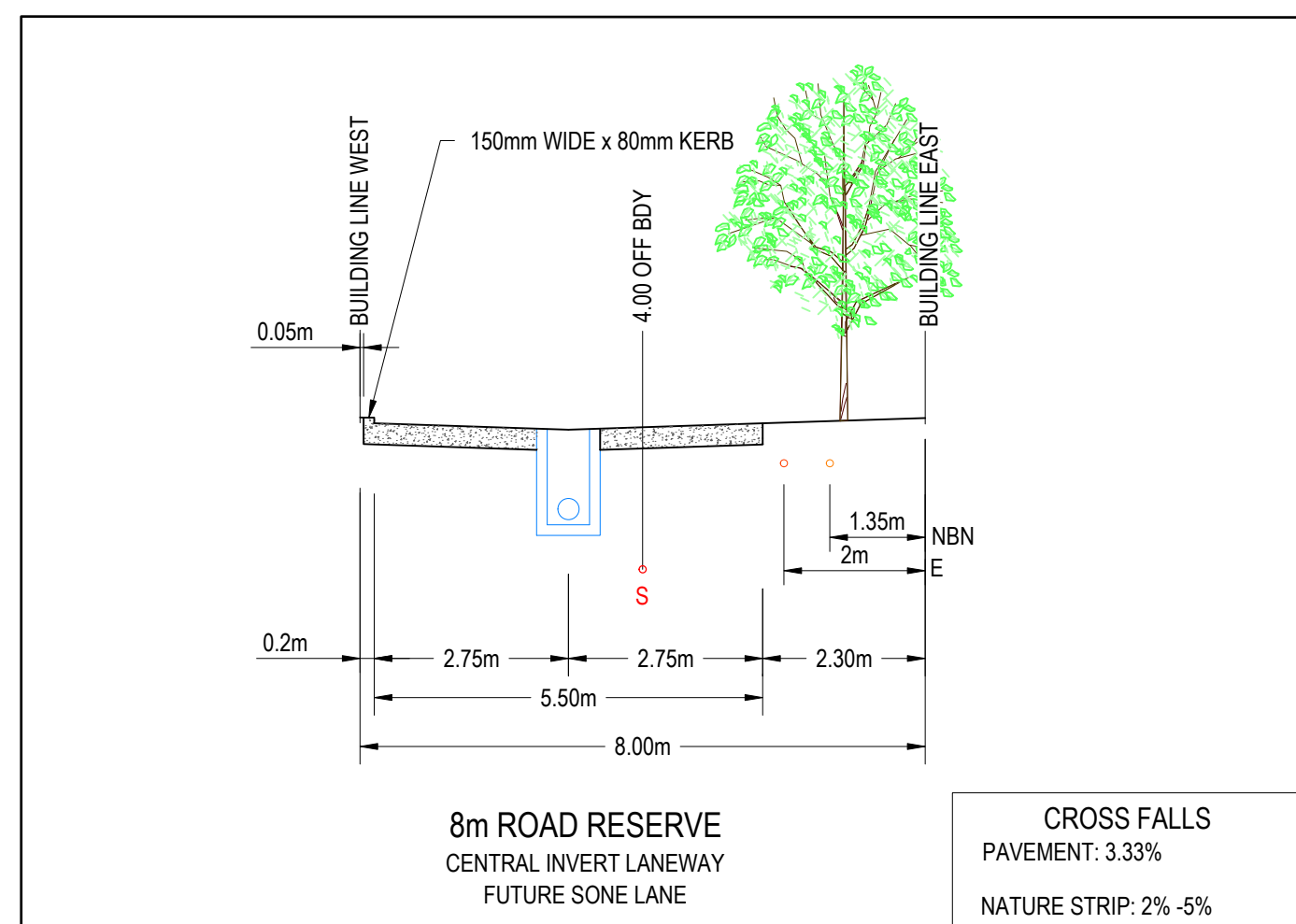
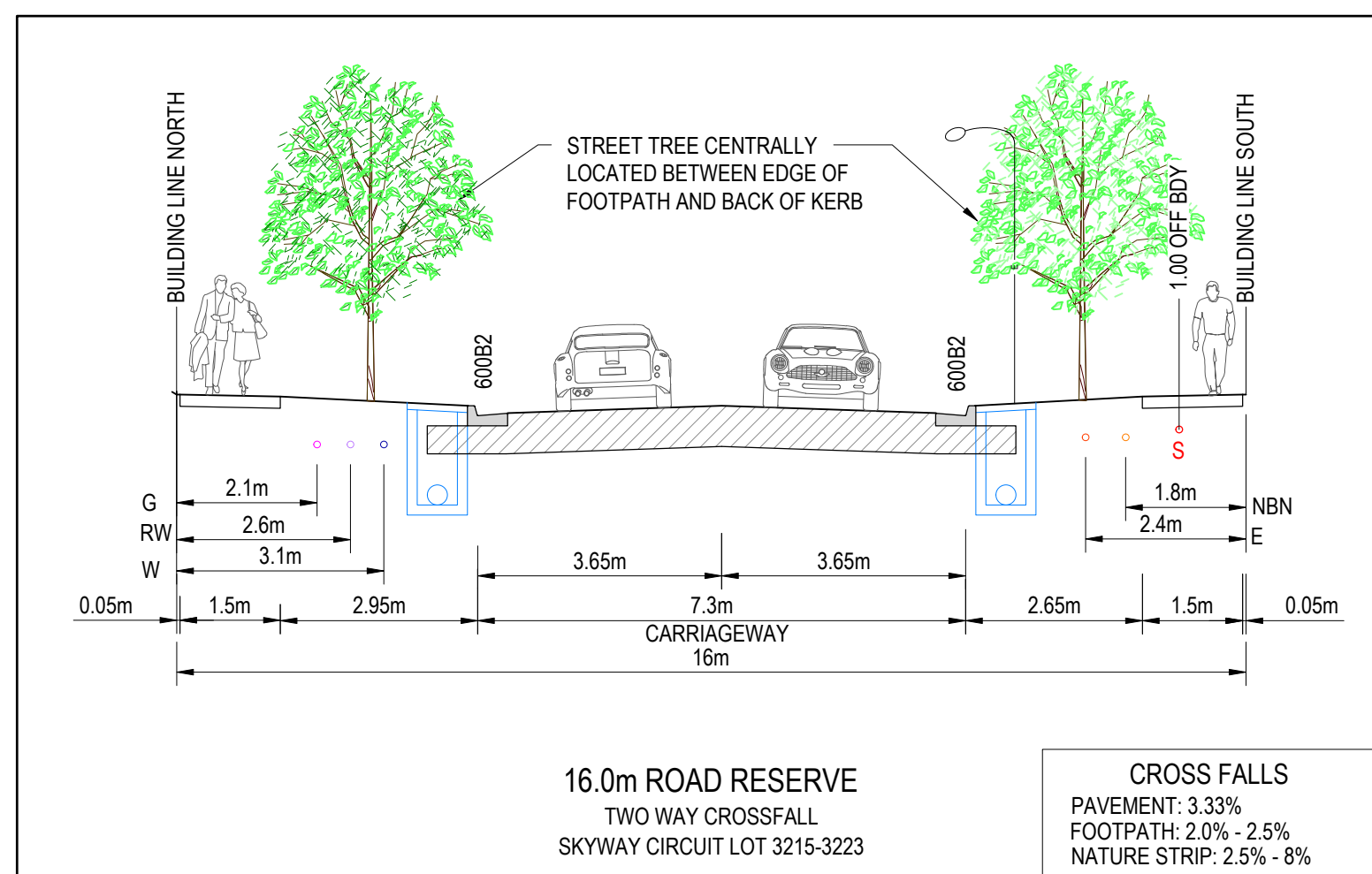
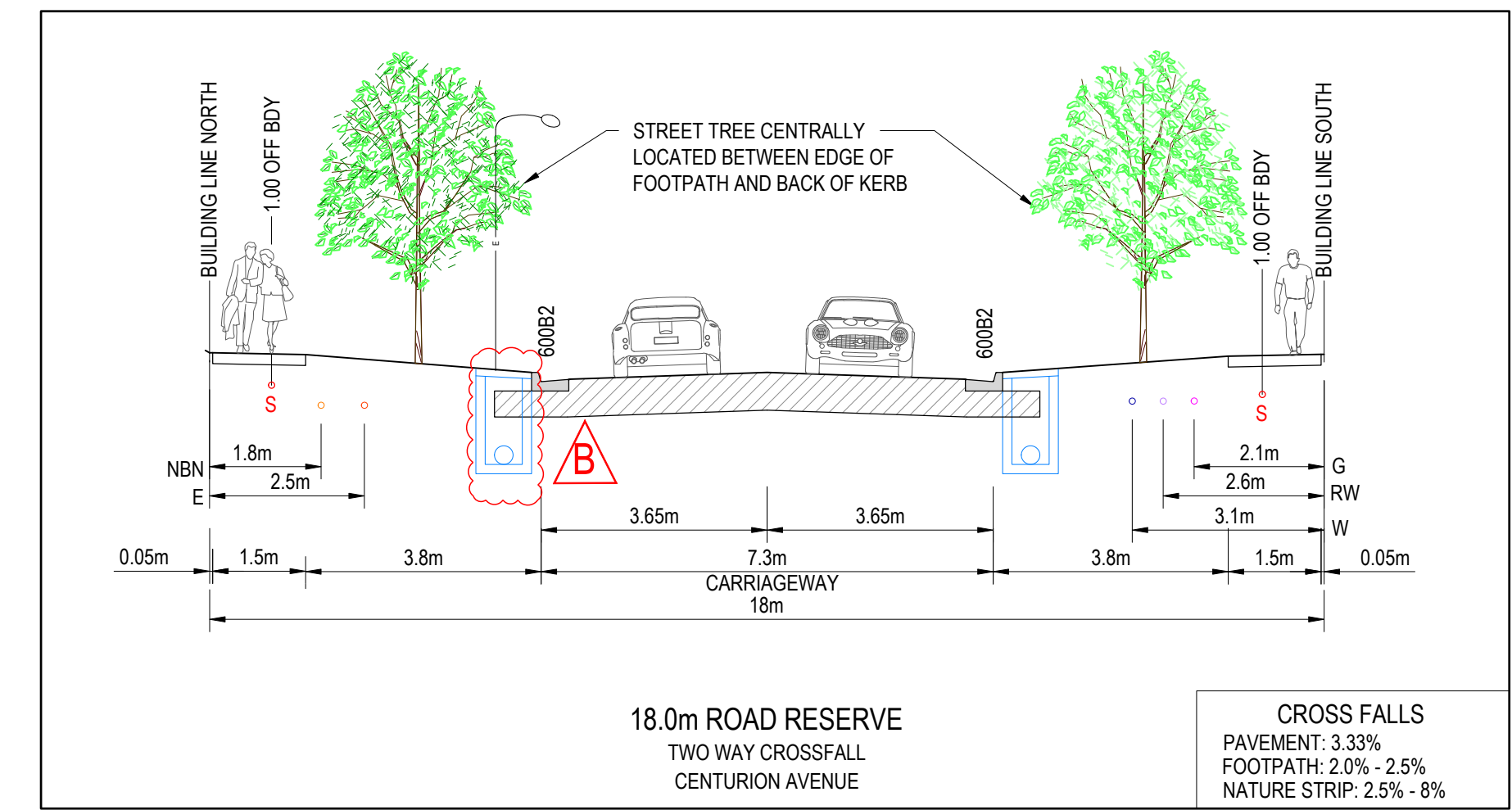
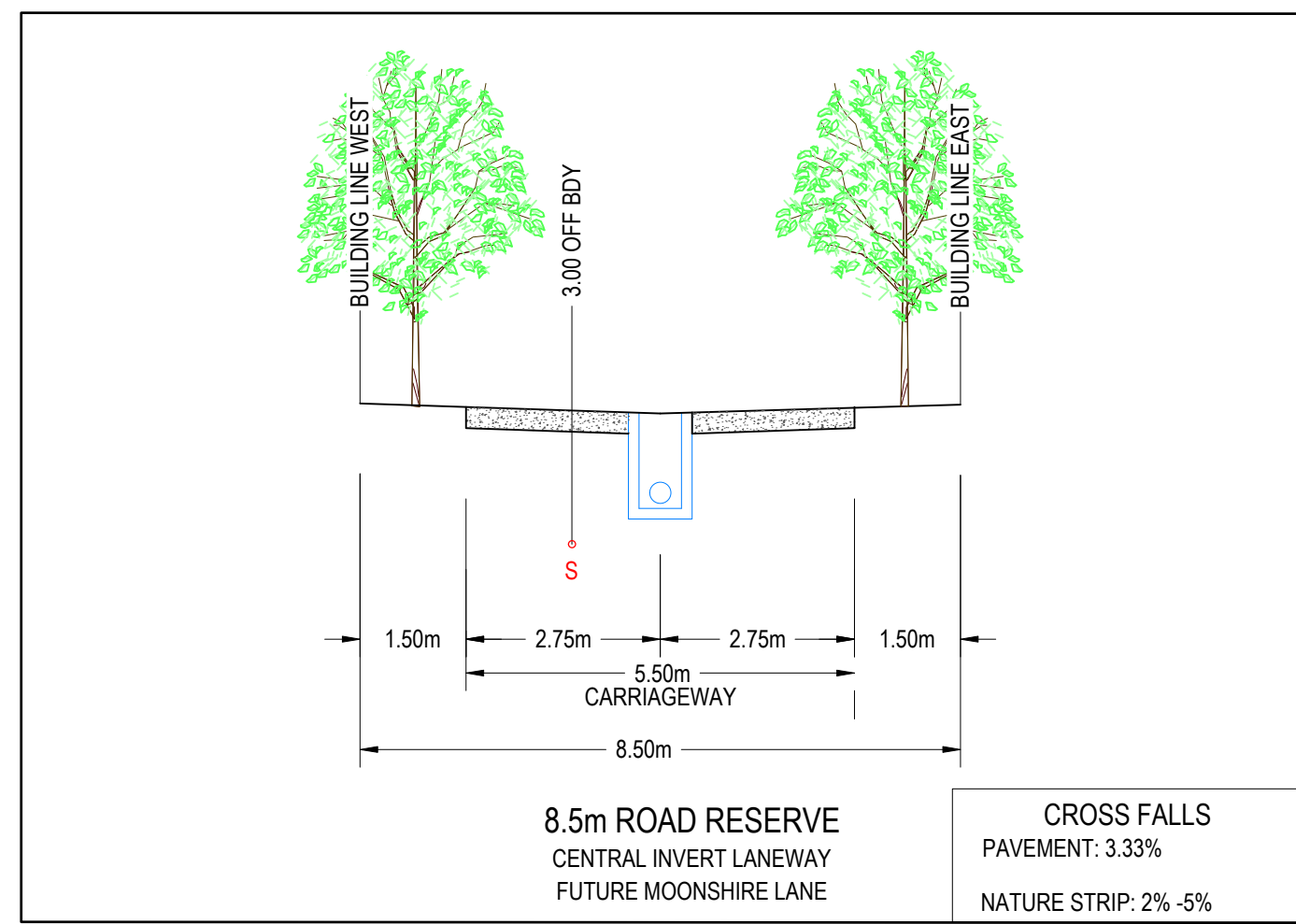
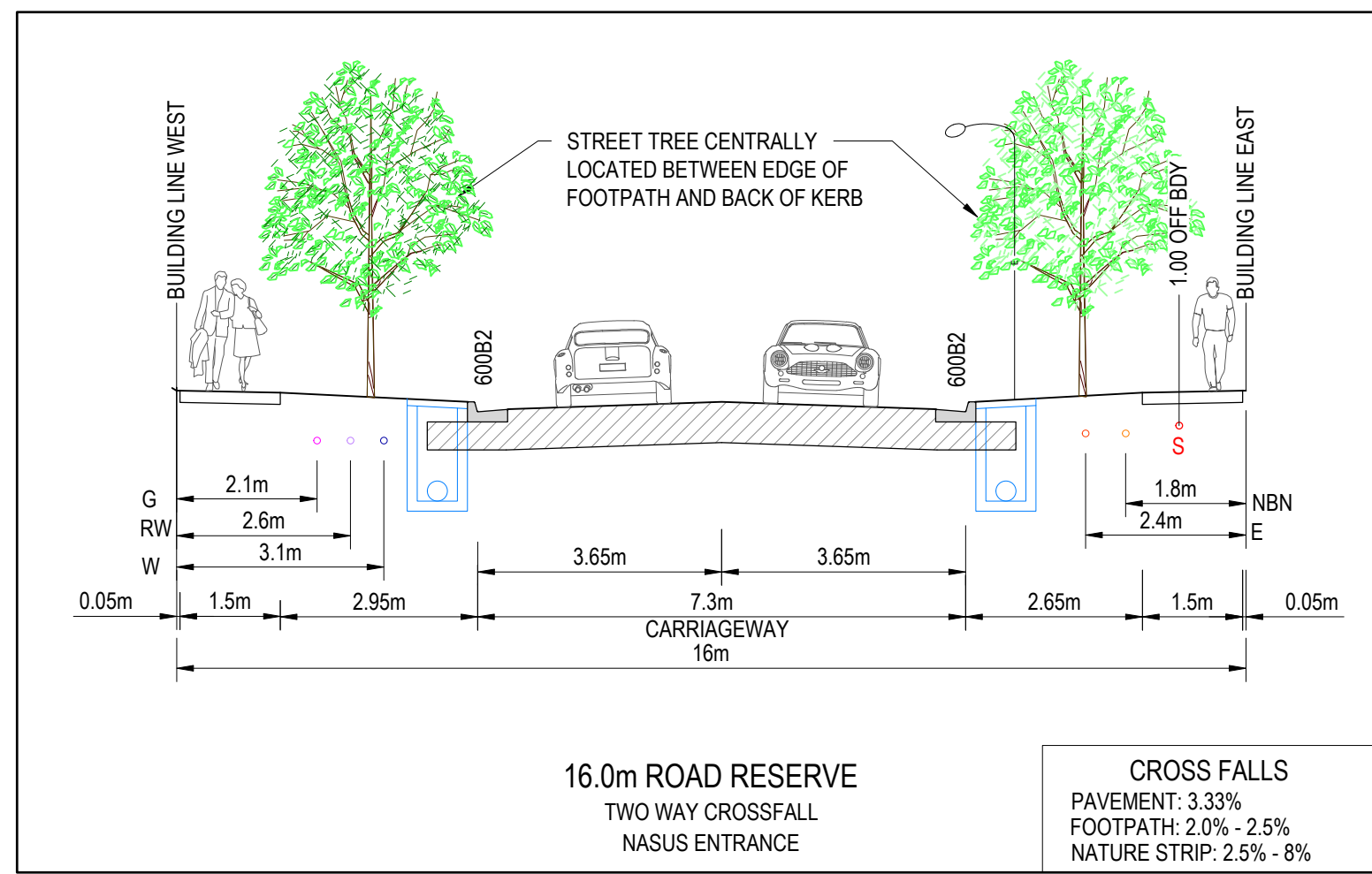
**ALAMORA - STAGE 32
EARTHWORKS PLAN**

STATUS

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

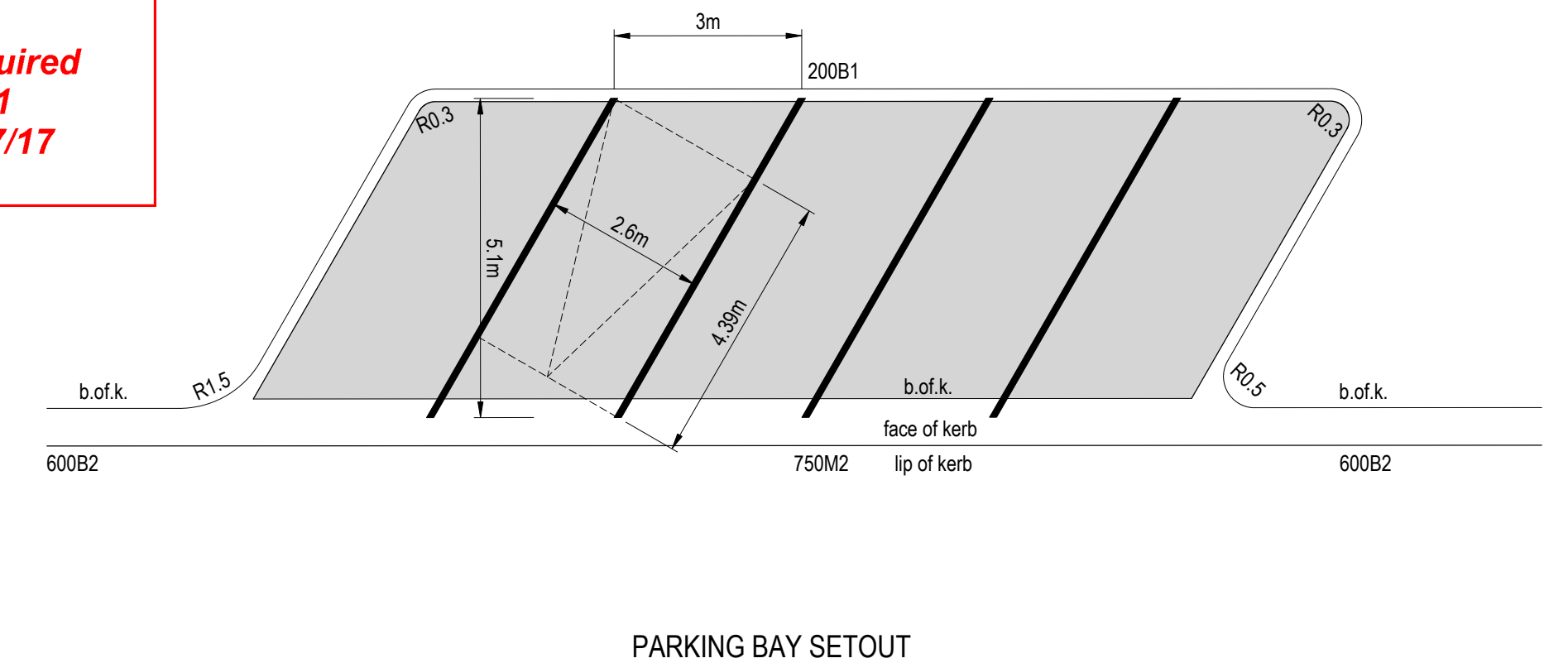
SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R203	A



**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	HAUNCH REMOVED - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

villawood
properties

Communities Designed for Living

PROJECT

creo
CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32
TYPICAL CROSS SECTIONS

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:

AS SHOWN

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

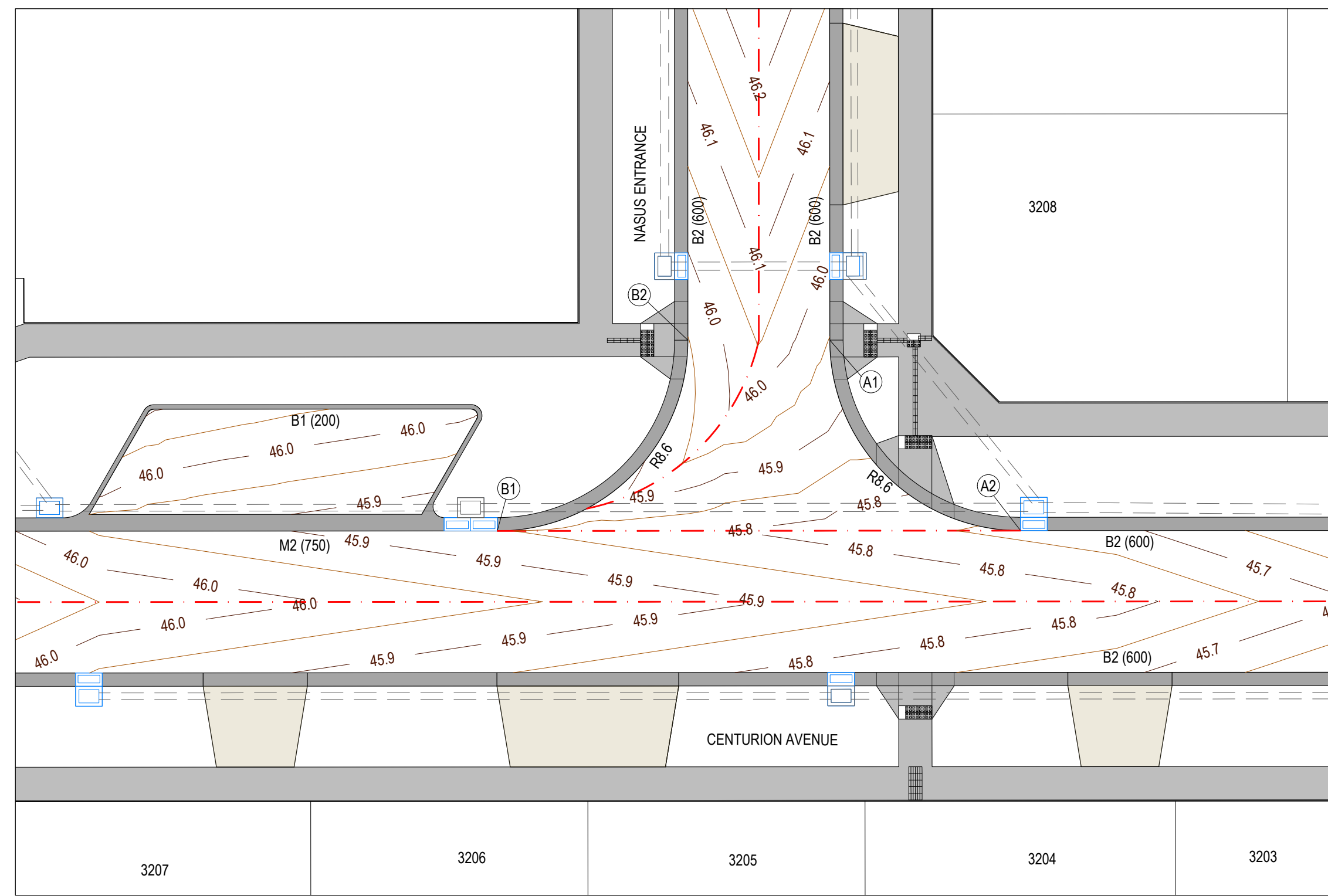
M.TROUNCE

DRAWING No.

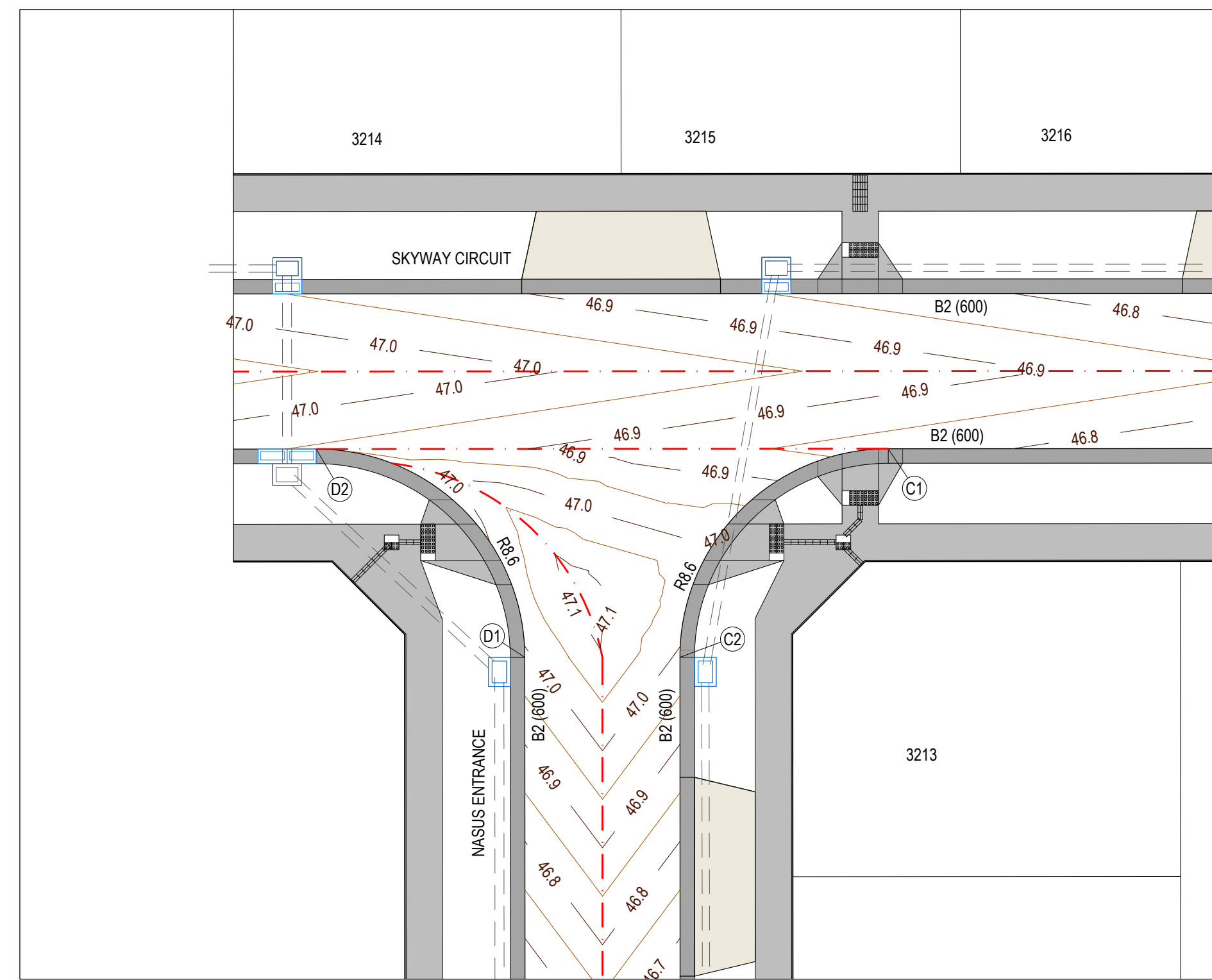
R204

REVISION

B



CENTURION AVENUE NASUS ENTRANCE INTERSECTION



NASUS ENTRANCE & SKYWAY CIRCUIT INTERSECTION

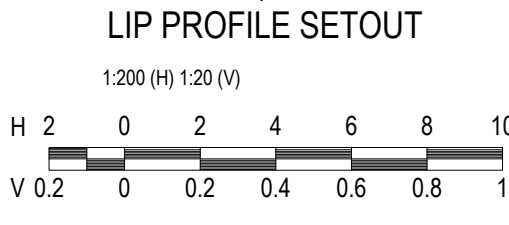
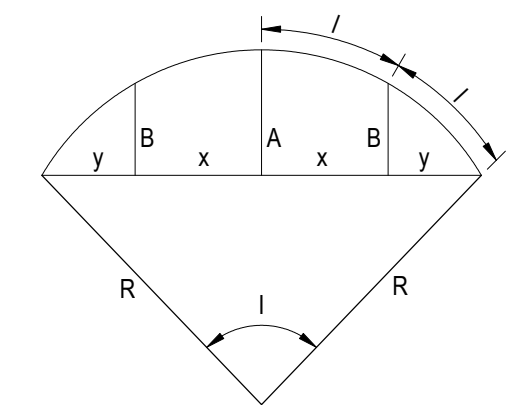


LEGEND - INTERSECTION PLAN

- STORMWATER DRAIN & PIT
- TACTILE PAVERS
- PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
- CROWNGRADELINE
- MINOR CONTOUR 0.05m INTERVAL
- MAJOR CONTOUR 0.1m INTERVAL

LEGEND - SECTION

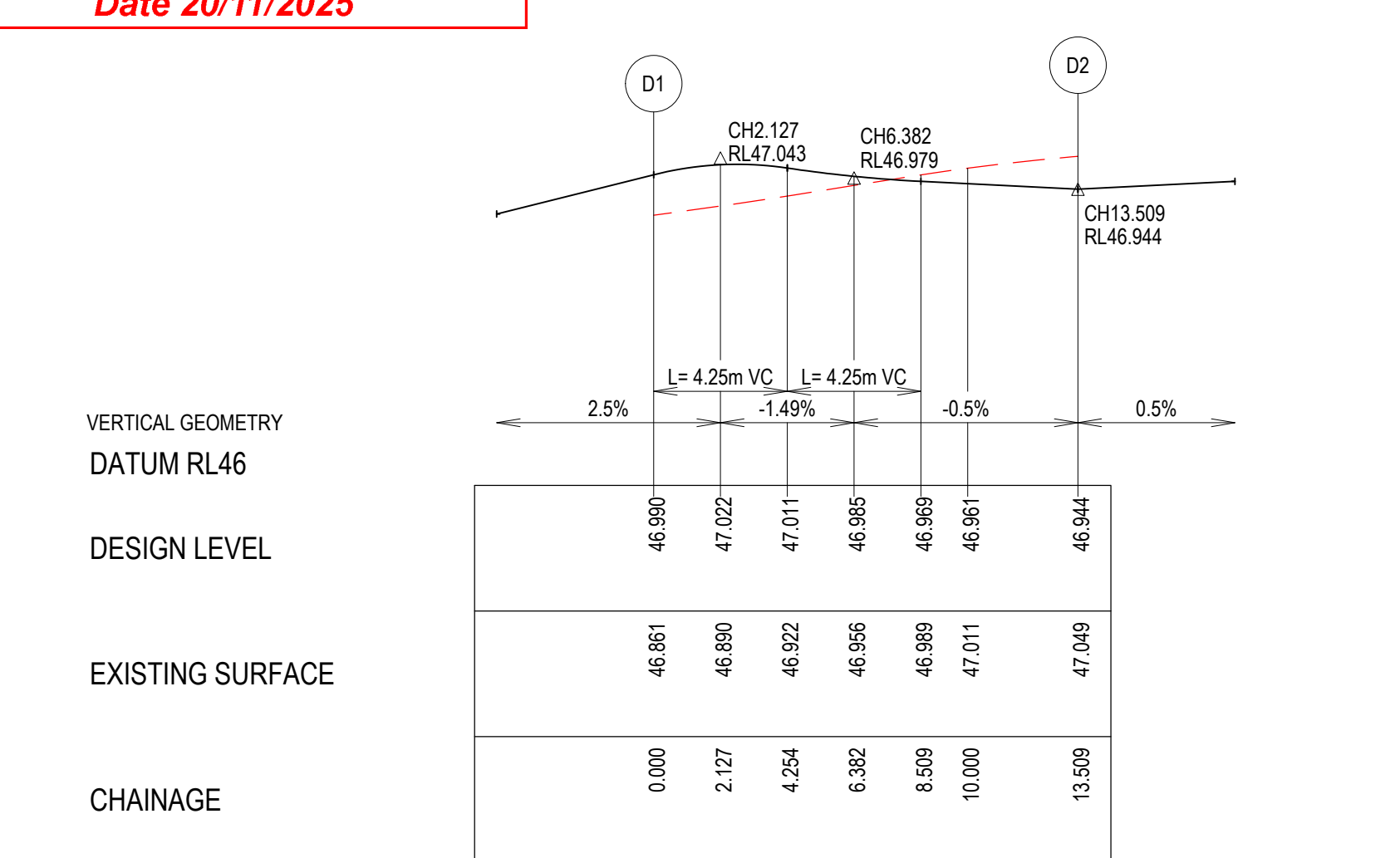
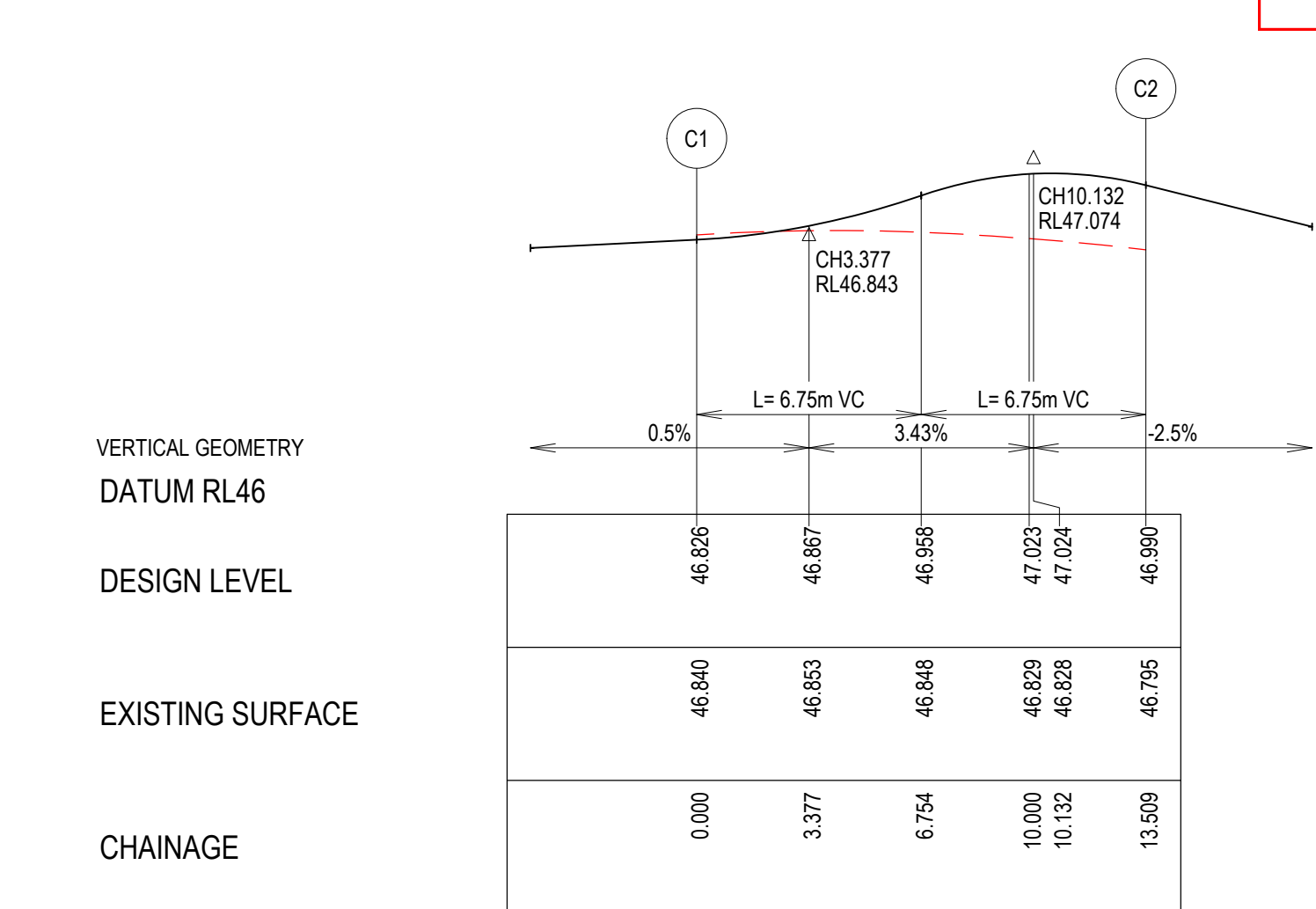
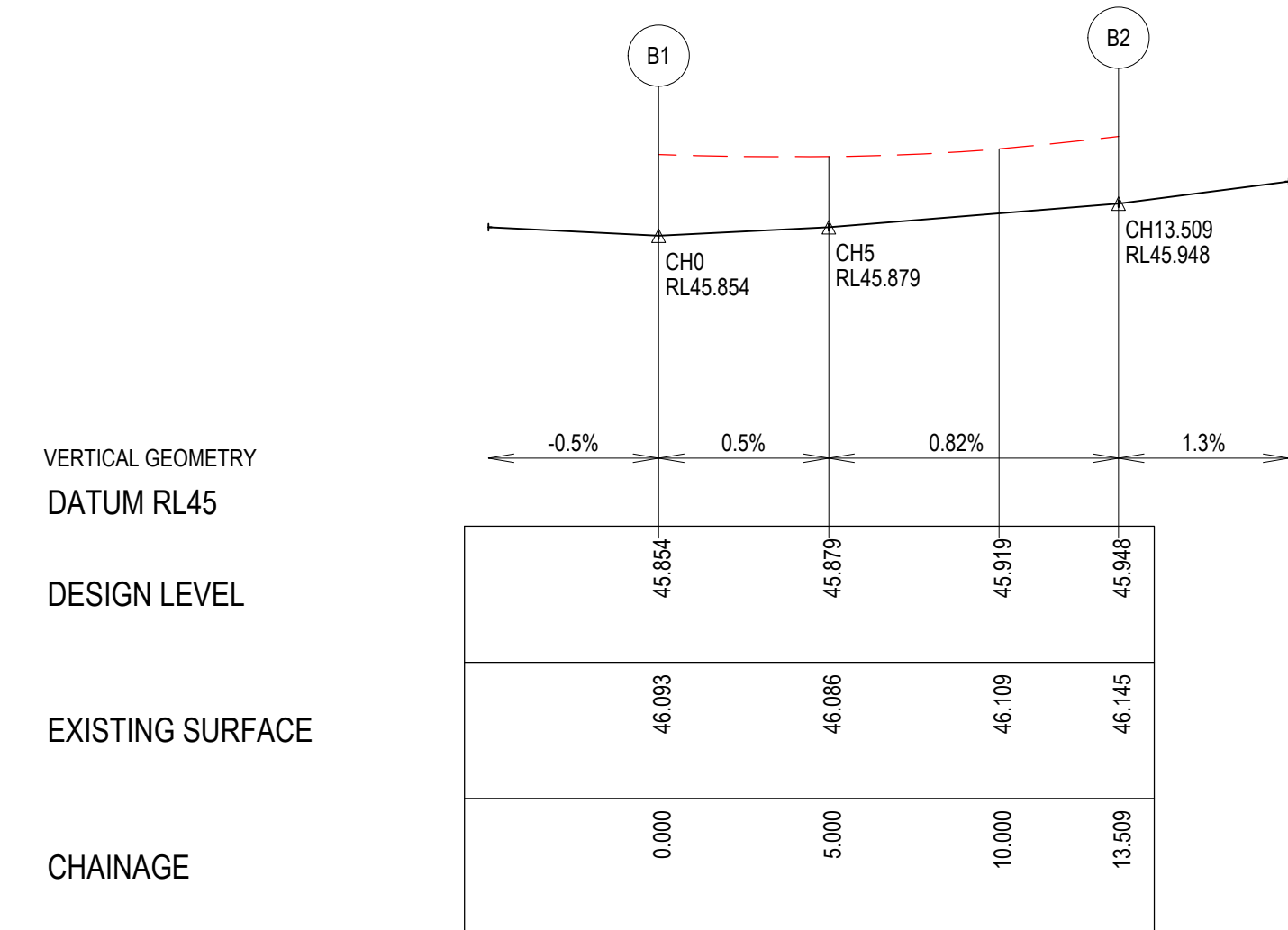
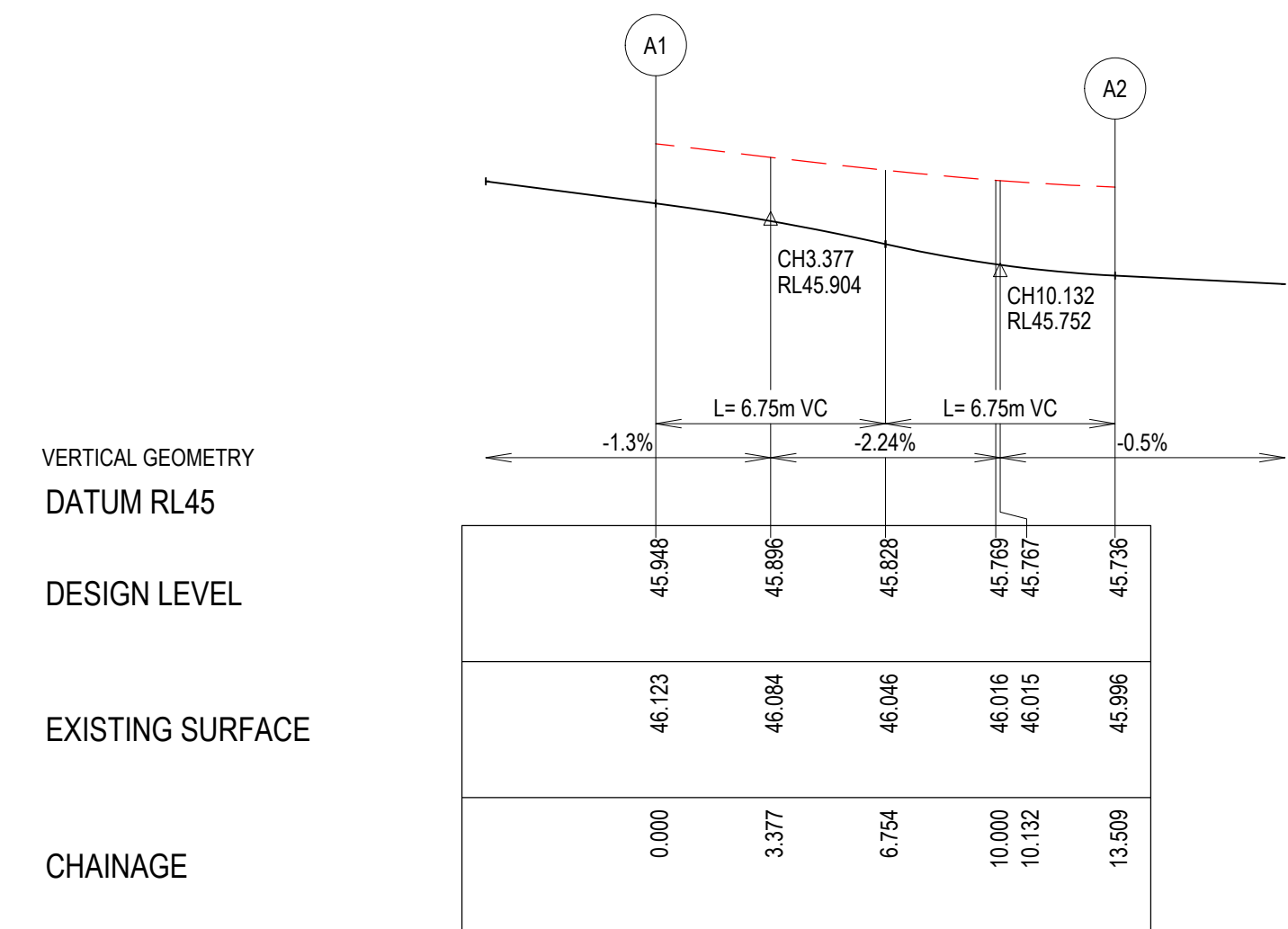
- EXISTING SURFACE
- DESIGN LINE



NOTE
FOR SIGNS & LINEMARKING PLAN
REFER SHEETS R800.

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025



Alignment A

Point no	Easting	Northing	RL
A1	291783.318	5808779.620	45.948
A2	291790.643	5808769.911	45.736

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	45.828

Alignment B

Point no	Easting	Northing	RL
B1	291767.271	5808773.182	45.854
B2	291776.980	5808760.507	45.948

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	45.893

Alignment C

Point no	Easting	Northing	RL
C1	291800.963	5808843.642	46.826
C2	291791.254	5808836.318	46.990

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.958

Alignment D

Point no	Easting	Northing	RL
D1	291784.916	5808837.205	46.990
D2	291777.591	5808846.914	46.944

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 - D2	89.999	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.981

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

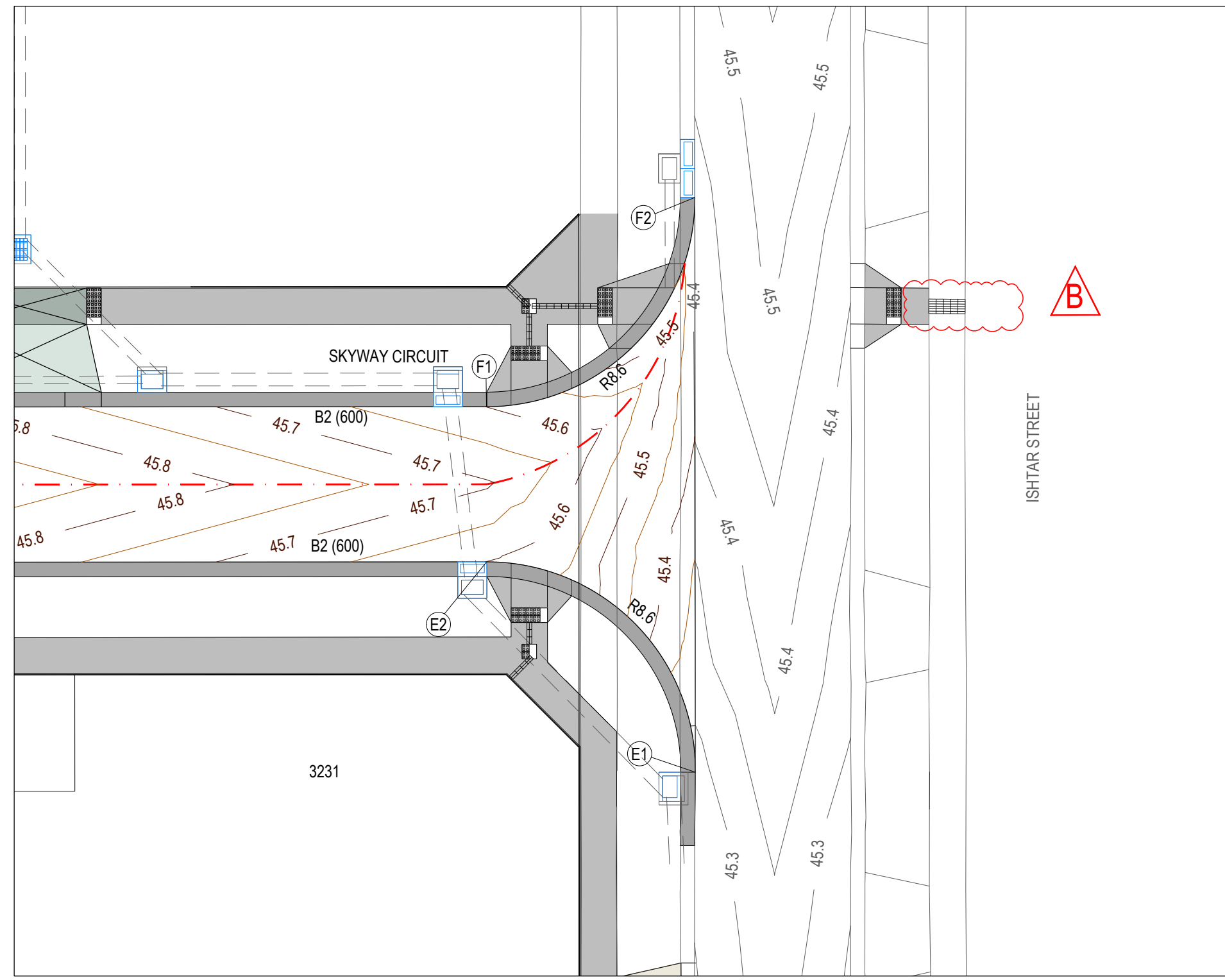


ALAMORA - STAGE 32
INTERSECTION DETAILS - 1

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:
AS SHOWN

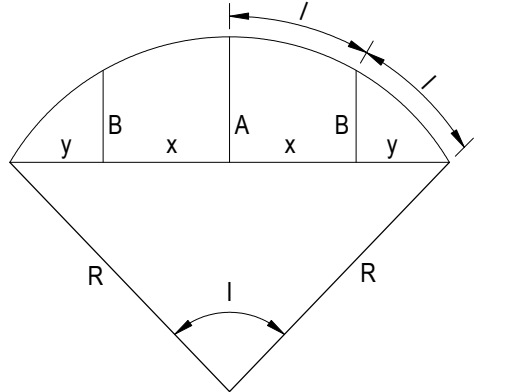
DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R300	A



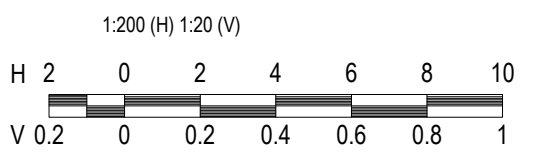
SKYWAY CIRCUIT & ISHTAR STREET INTERSECTION



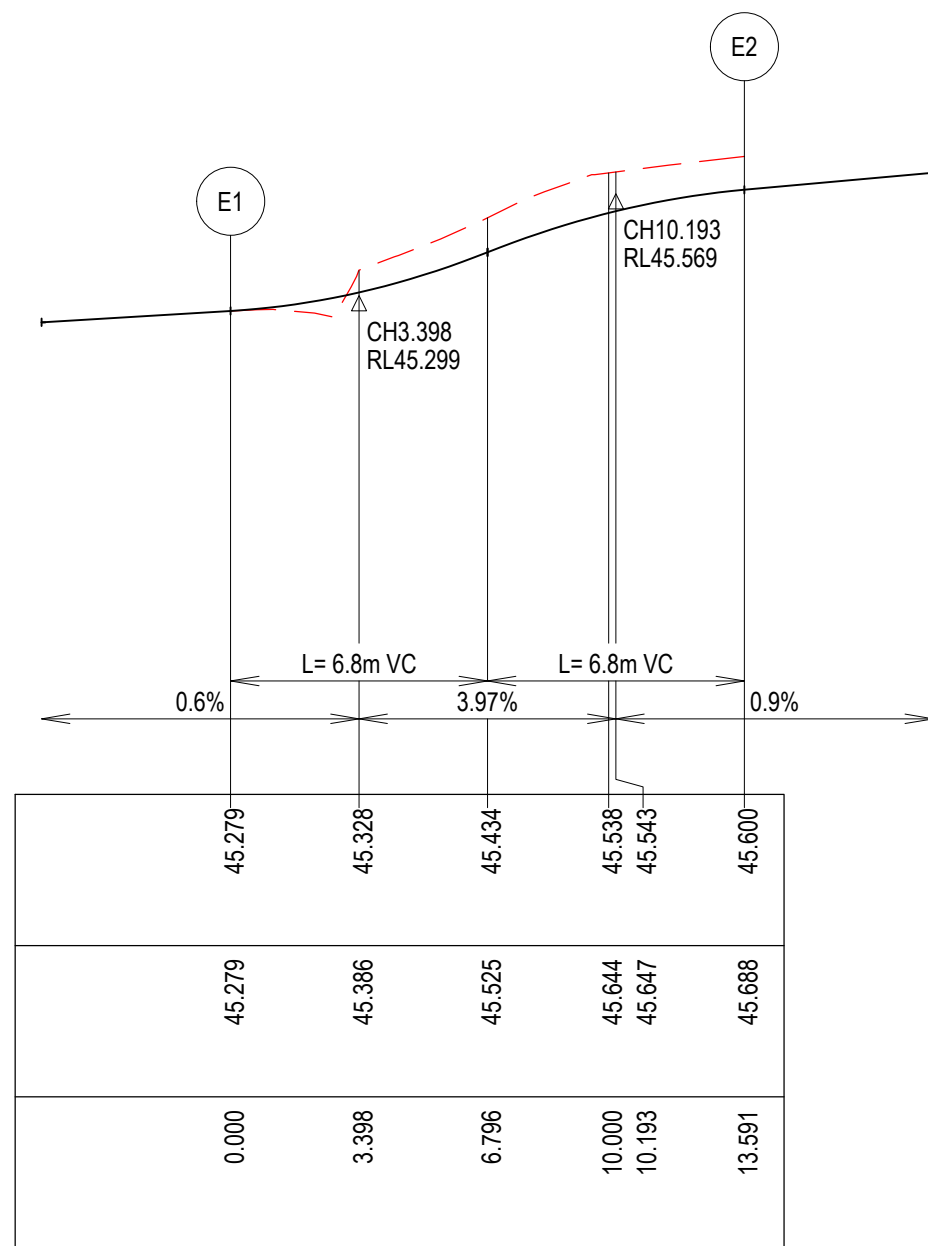
- LEGEND - INTERSECTION PLAN**
- STORMWATER DRAIN & PIT
 - TACTILE PAVERS
 - PROPOSED PAVEMENT, KERB & CHANNEL, FOOTPATH & DRIVEWAY
 - CROWN/GRADELINE
 - MINOR CONTOUR 0.05m INTERVAL
 - MAJOR CONTOUR 0.1m INTERVAL
- LEGEND - SECTION**
- EXISTING SURFACE
 - DESIGN LINE



LIP PROFILE SETOUT



NOTE
FOR SIGNS & LINEMARKING PLAN
REFER SHEETS R800.

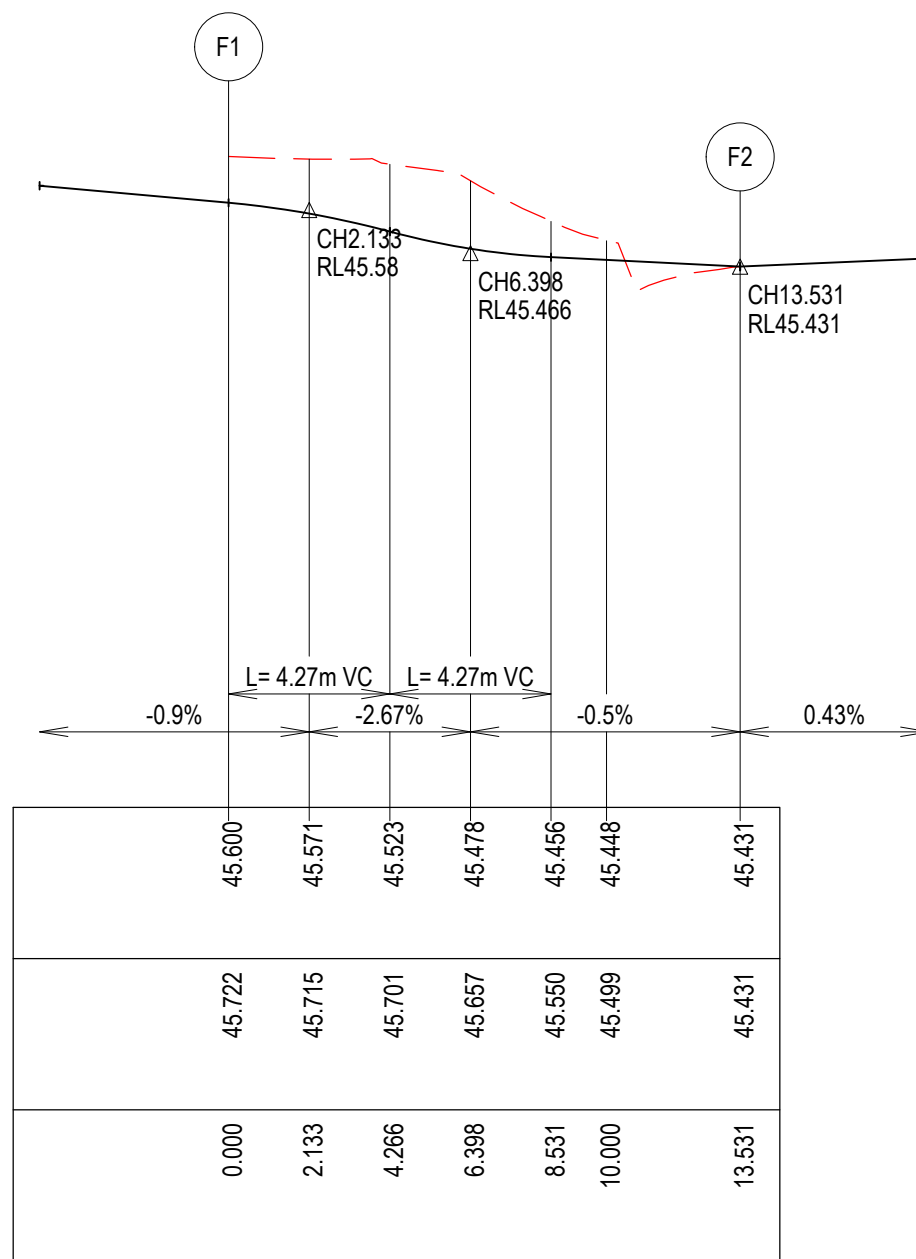


LIP LINE E

Alignment E

Point no	Easting	Northing	RL
E1	291952.118	5808813.719	45.279
E2	291944.805	5808823.509	45.600

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	90.547	8.600	13.591	2.548	1.885	3.310	2.800	3.398	45.434



LIP LINE F

Alignment F

Point no	Easting	Northing	RL
F1	291945.685	5808829.848	45.600
F2	291955.398	5808837.195	45.431

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 - F2	90.149	8.600	13.531	2.527	1.870	3.296	2.793	3.383	45.472

Planning and Environment Act 1987
Wyndham Planning Scheme

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	TGSI ADDED ON ISHTAR STREET - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

villawood properties
Communities Designed for Living

creo CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

ALAMORA
Tarnait

ALAMORA - STAGE 32
INTERSECTION DETAILS - 2

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION
SCALE @ A1:
AS SHOWN

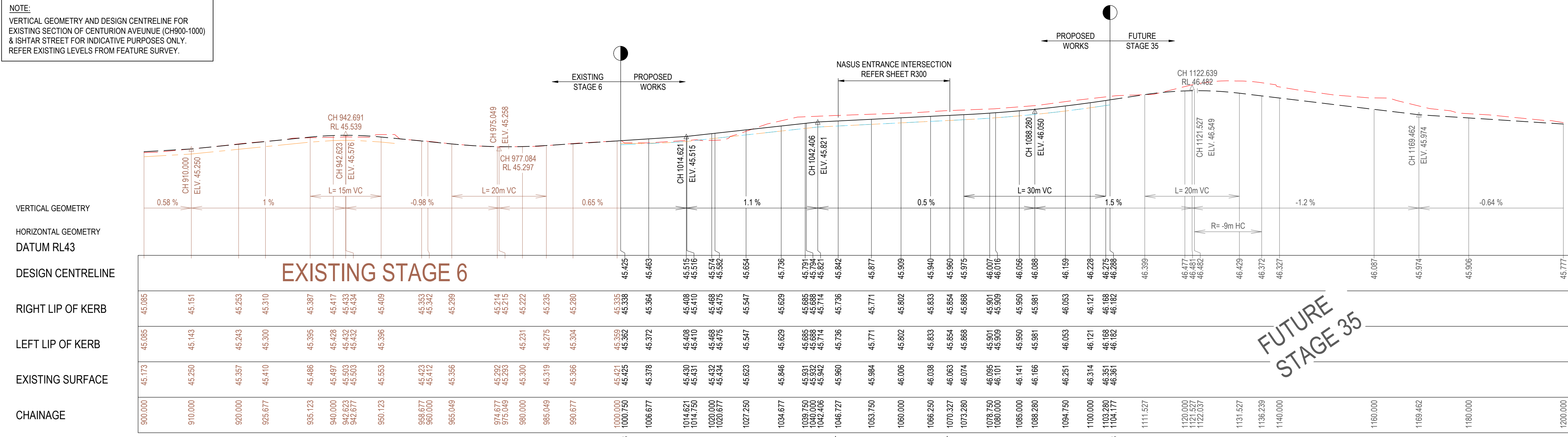
DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R301	B

LEGEND

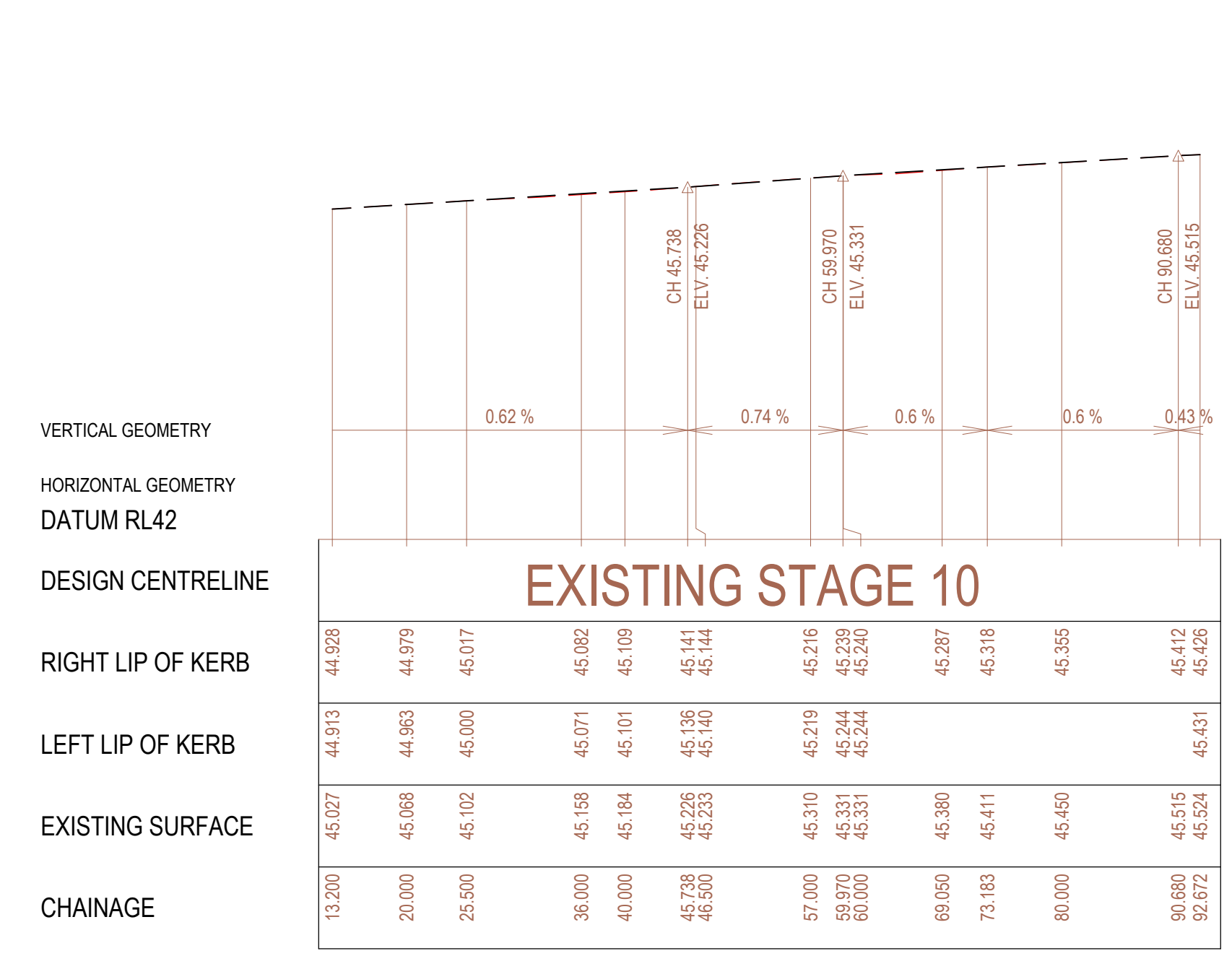
- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- LEFT LIP OF KERB
- RIGHT LIP OF KERB

NOTE: REFER TO GENERAL NOTES REGARDING STRUCTURAL FILL

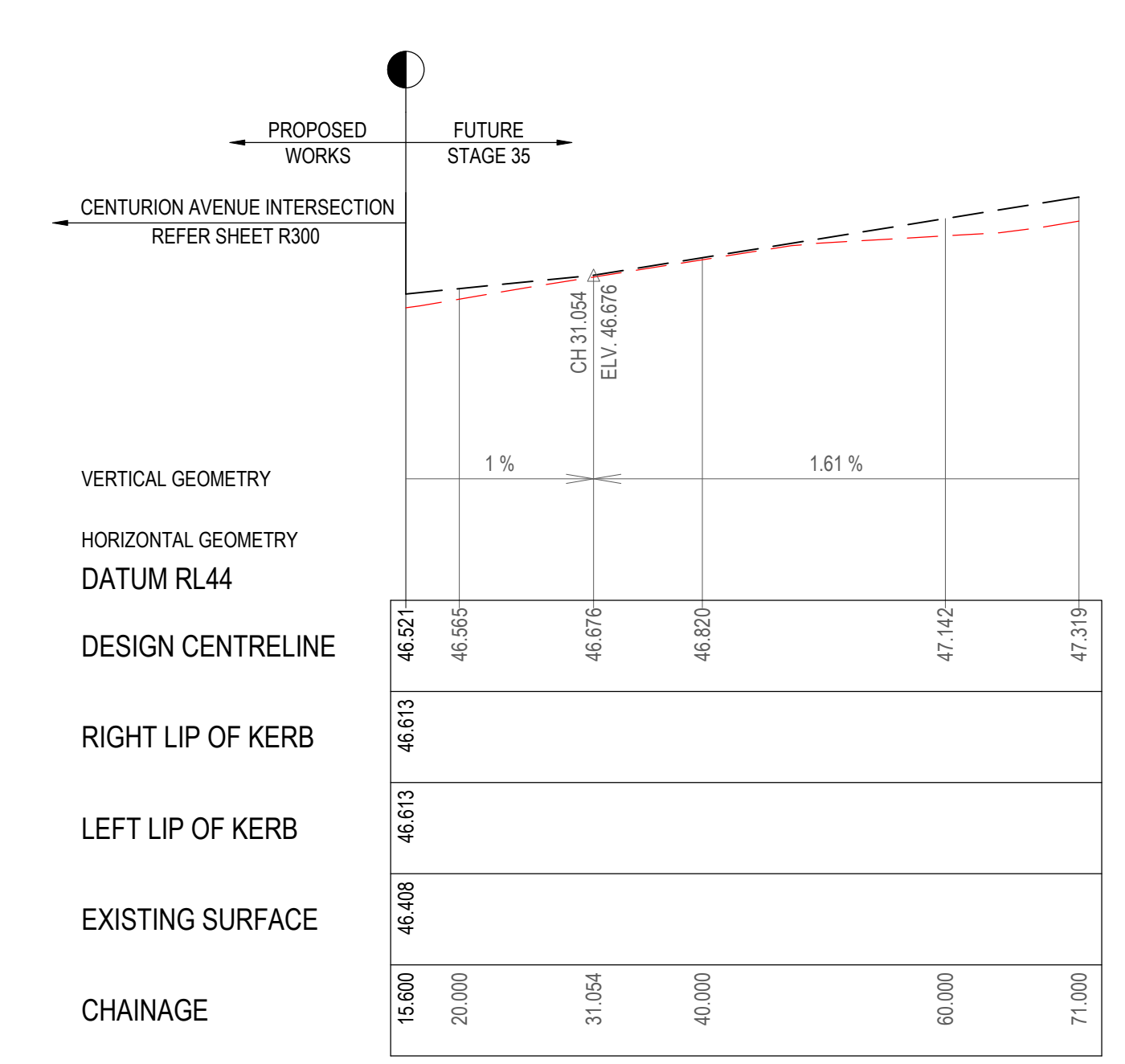
NOTE:
VERTICAL GEOMETRY AND DESIGN CENTRELINE FOR EXISTING SECTION OF CENTURION AVENUE (CH900-1000) & ISHTAR STREET FOR INDICATIVE PURPOSES ONLY. REFER EXISTING LEVELS FROM FEATURE SURVEY.



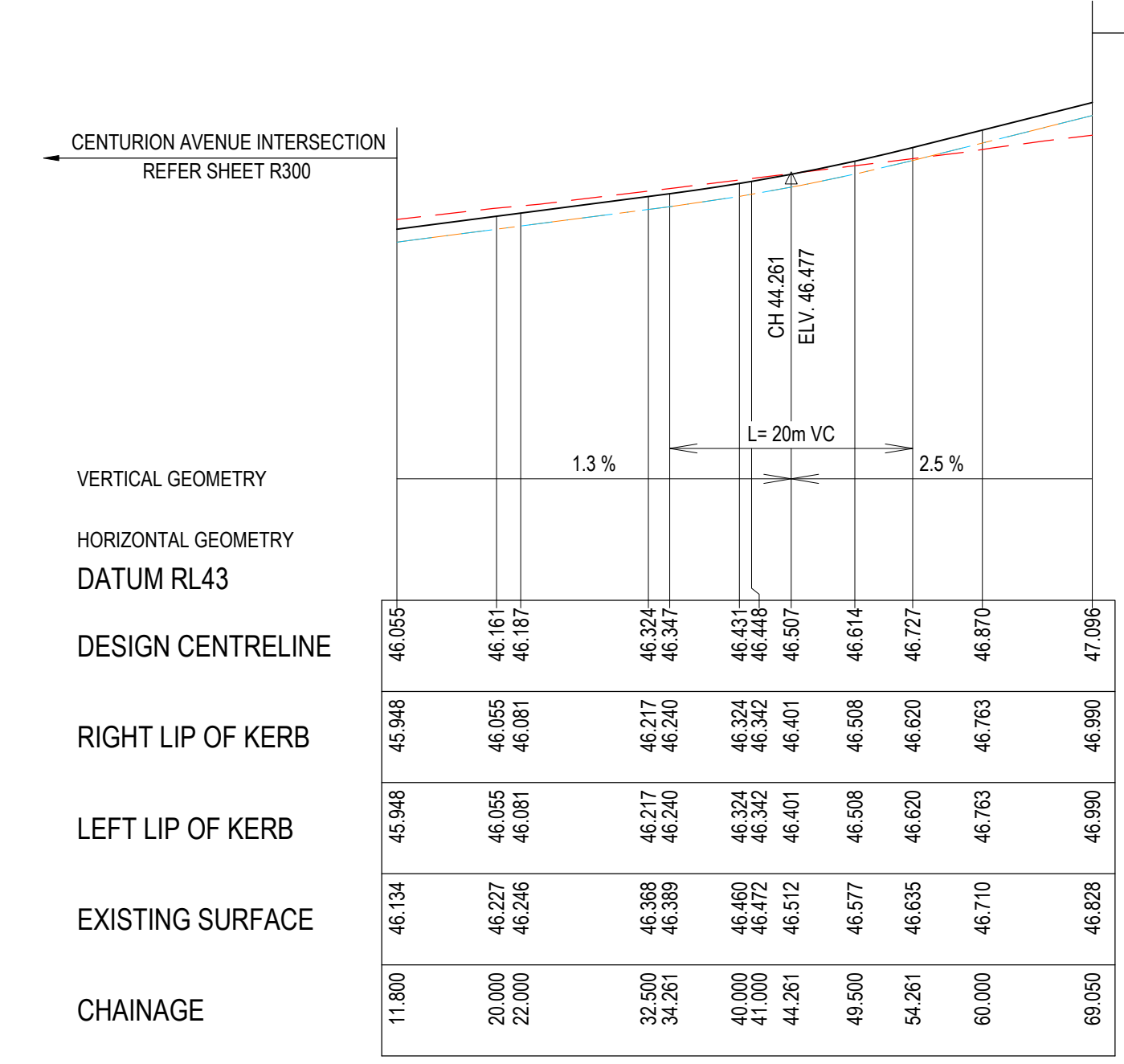
CENTURION AVENUE LONGITUDINAL SECTION



ISHTAR STREET LONGITUDINAL SECTION



MOONSHIRE LANE LONGITUDINAL SECTION



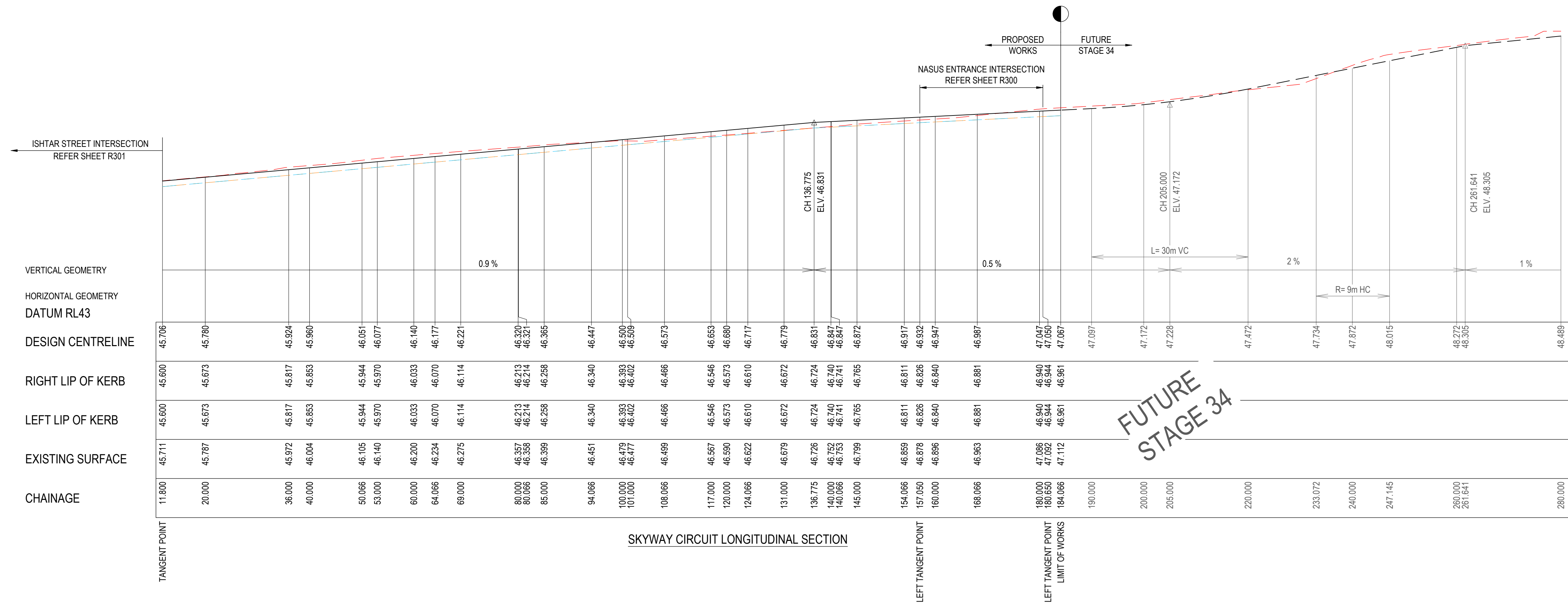
NASUS ENTRANCE LONGITUDINAL SECTION

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	DESIGNED	PROJECT ENGINEER	
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T	 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Newtown, VIC, Australia 3220	ALAMORA - STAGE 32 ROAD LONGITUDINAL SECTIONS - 1	ISSUED FOR APPROVAL NOT FOR CONSTRUCTION	M.PLANT	A.WALE	
										M.PLANT	M.TROUNCE	
										PROJECT No.	DRAWING No.	REVISION
										200282.32	R400	A

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	LEFT LIP OF KERB
	RIGHT LIP OF KERB
NOTE: REFER TO GENERAL NOTES REGARDING STRUCTURAL FILL	



Planning and Environment Act 1987
Wyndham Planning Scheme

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Permit No WYP10107/17
Date 20/11/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	DESIGNED	PROJECT ENGINEER	
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T	 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Newtown, VIC, Australia 3220	 ALAMORA - STAGE 32 ROAD LONGITUDINAL SECTIONS - 2	ISSUED FOR APPROVAL NOT FOR CONSTRUCTION SCALE @ A1: 1:500 (H) 1:50 (V) 	M.PLANT	A.WALE	
										M.PLANT	M.TROUNCE	
										PROJECT No.	DRAWING No.	REVISION
										200282.32	R401	A

LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	SELECT STRUCTURAL FILL

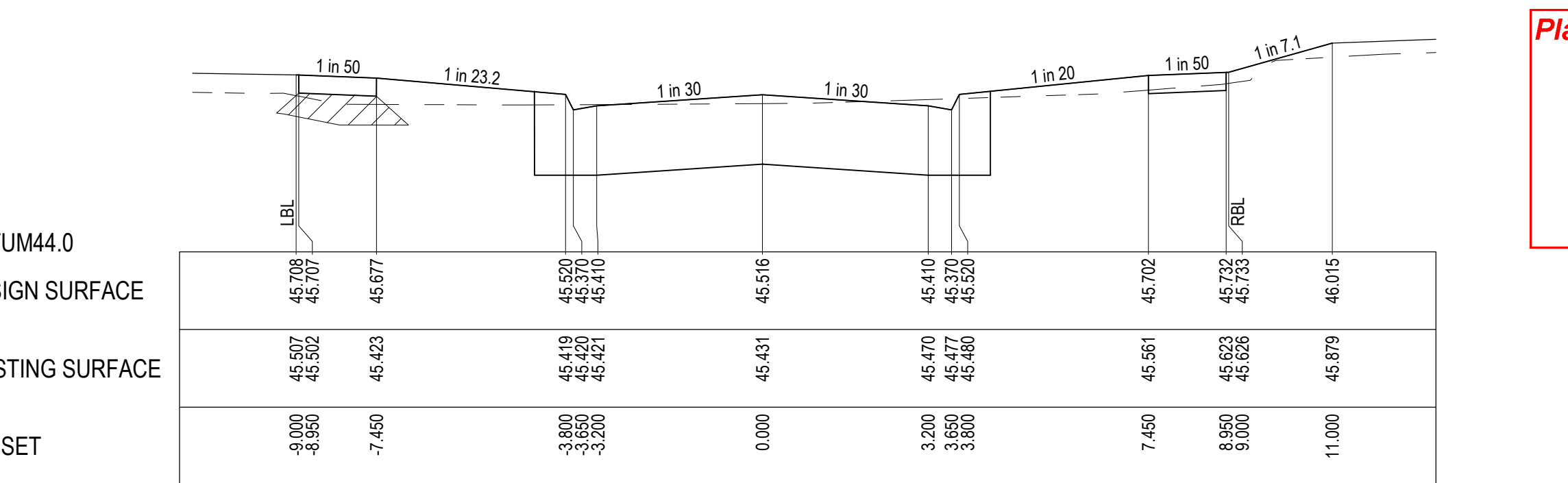
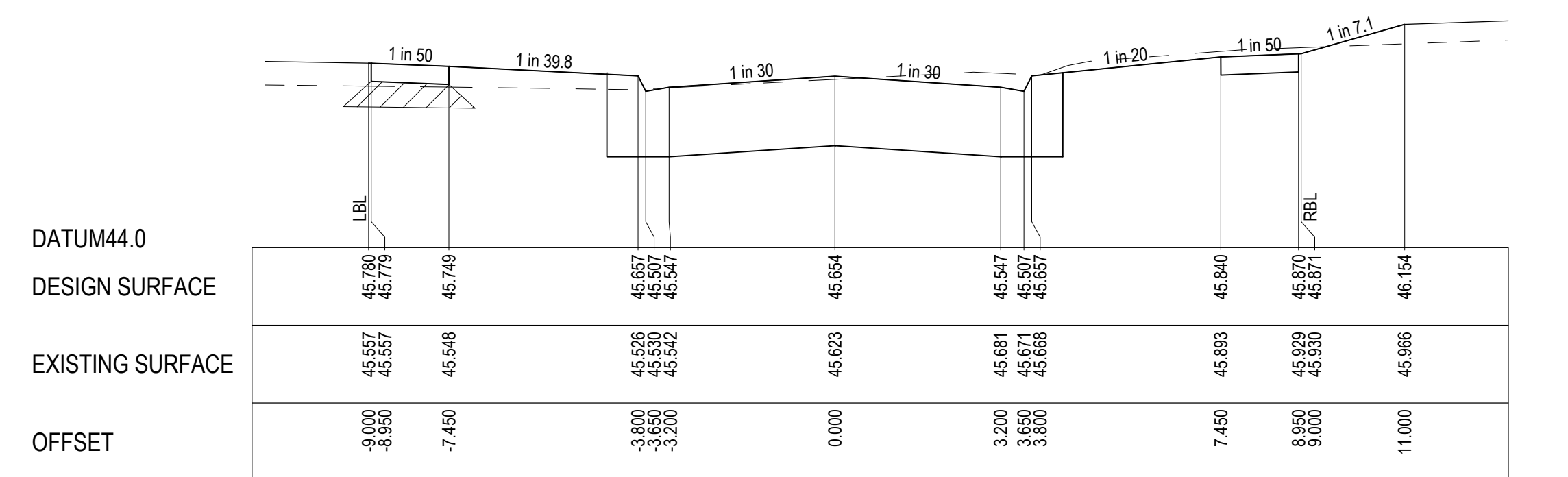
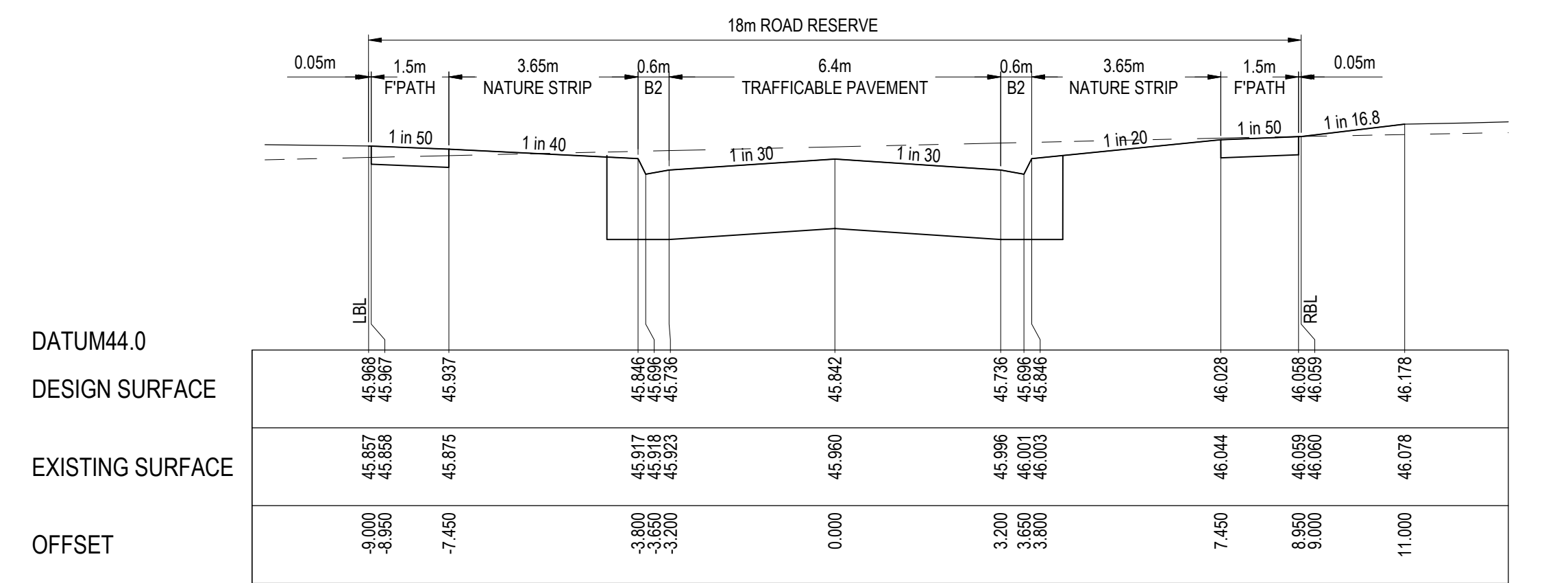
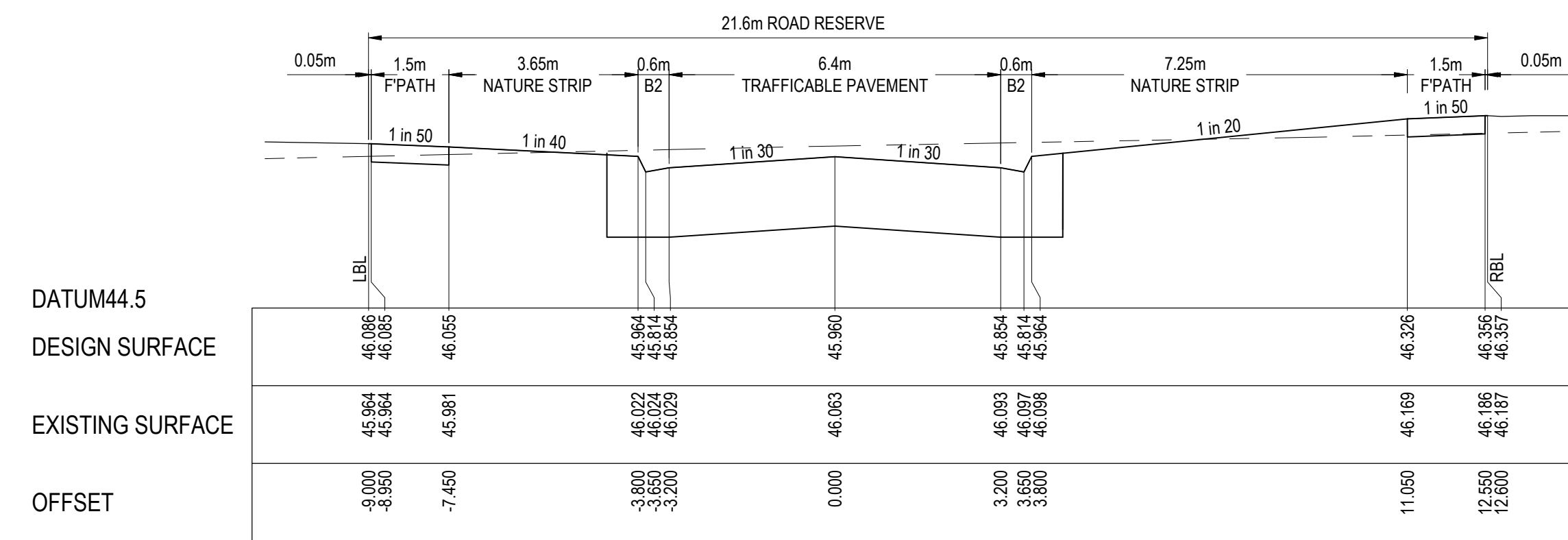
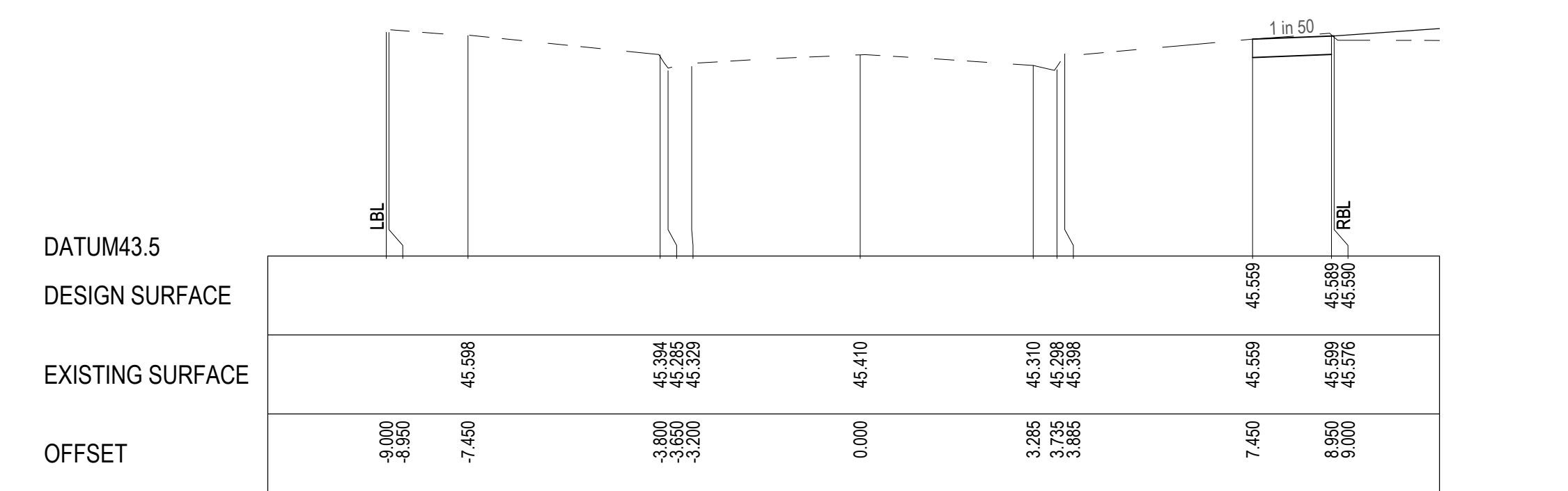
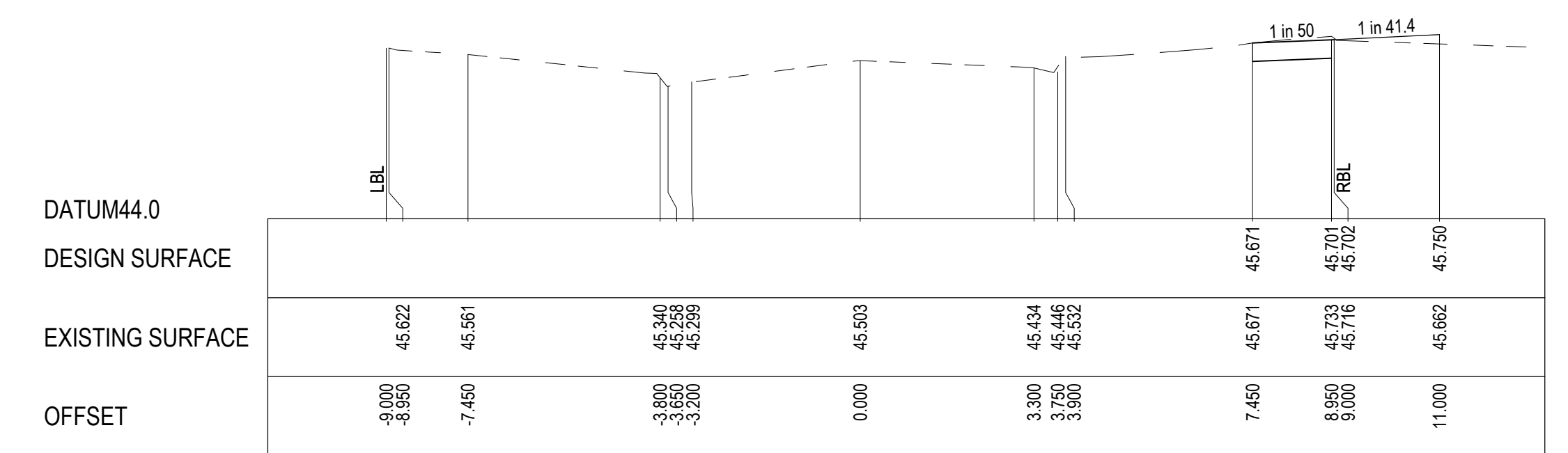
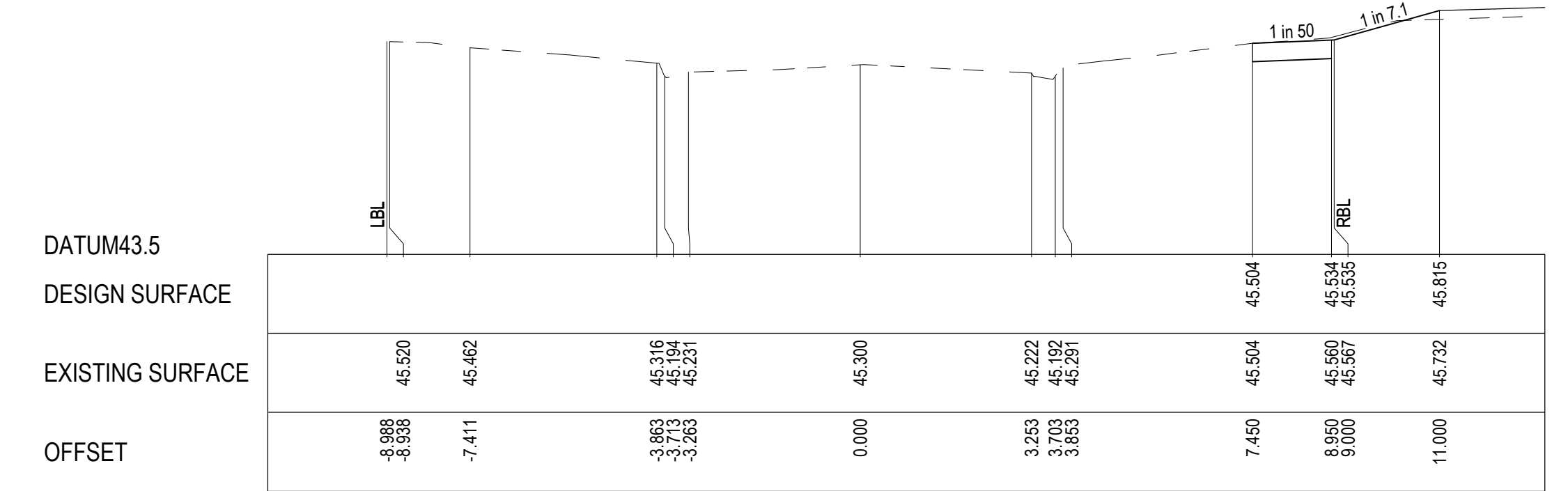
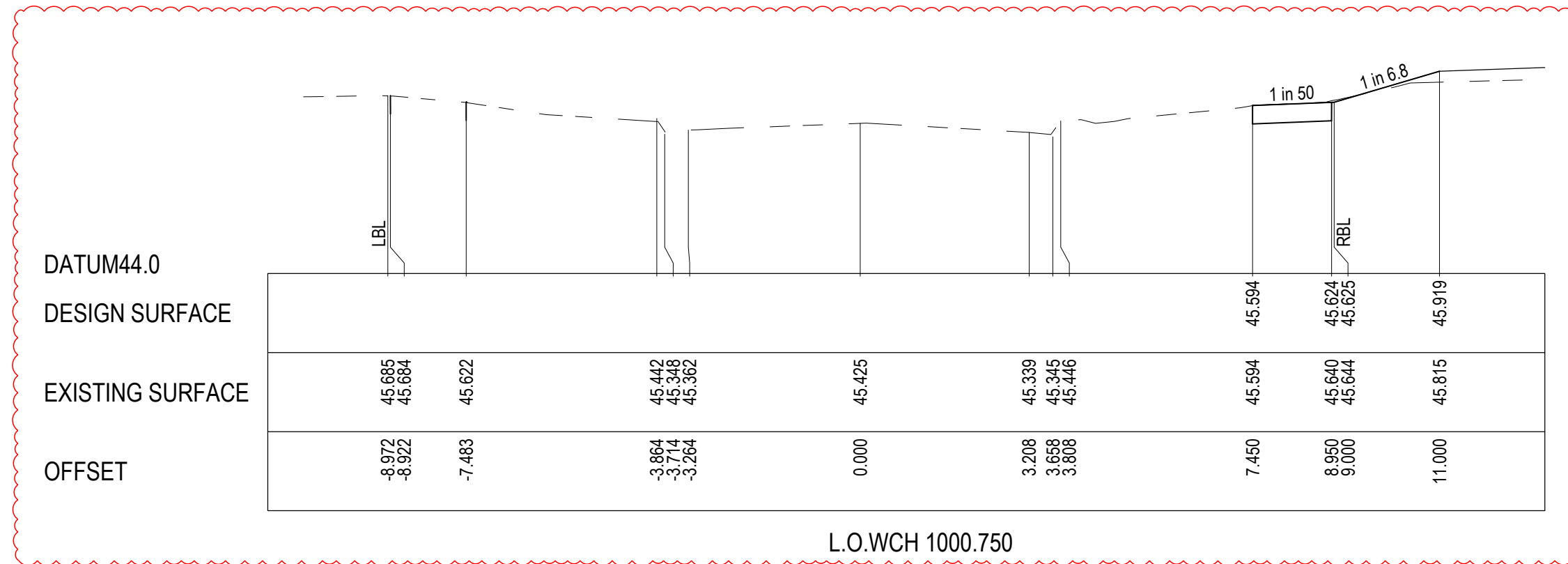
NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY. READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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DIAL 1100 BEFORE YOU DIG
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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	CH1000.750 UPDATE - COUNCIL COMMENTS	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32
ROAD CROSS SECTIONS - 1
CENTURION AVENUE

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1: 1:100 (H) 1:50 (V)

DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	R500
REVISION			B

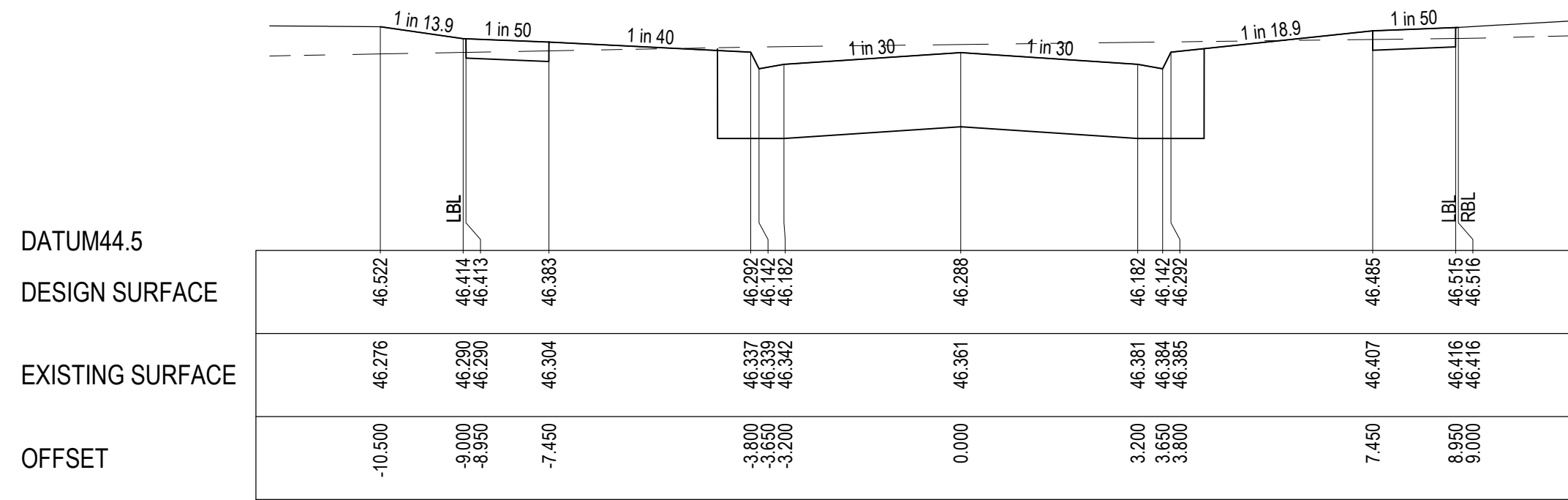
LEGEND

- EXISTING SURFACE
- DESIGN LINE
- SELECT STRUCTURAL FILL

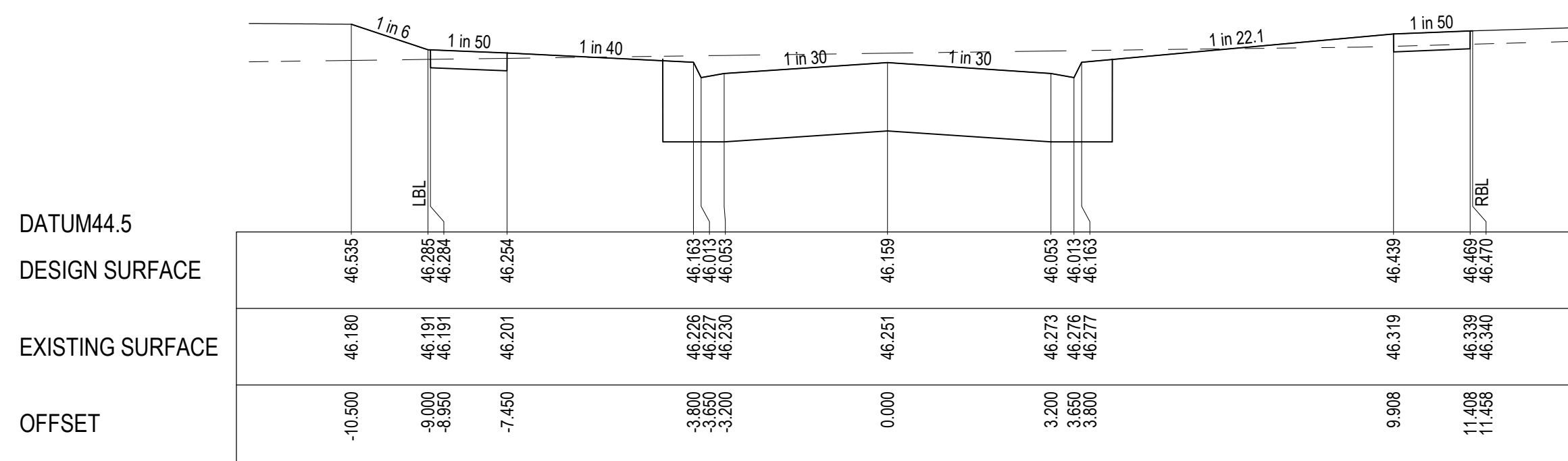
NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY. READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

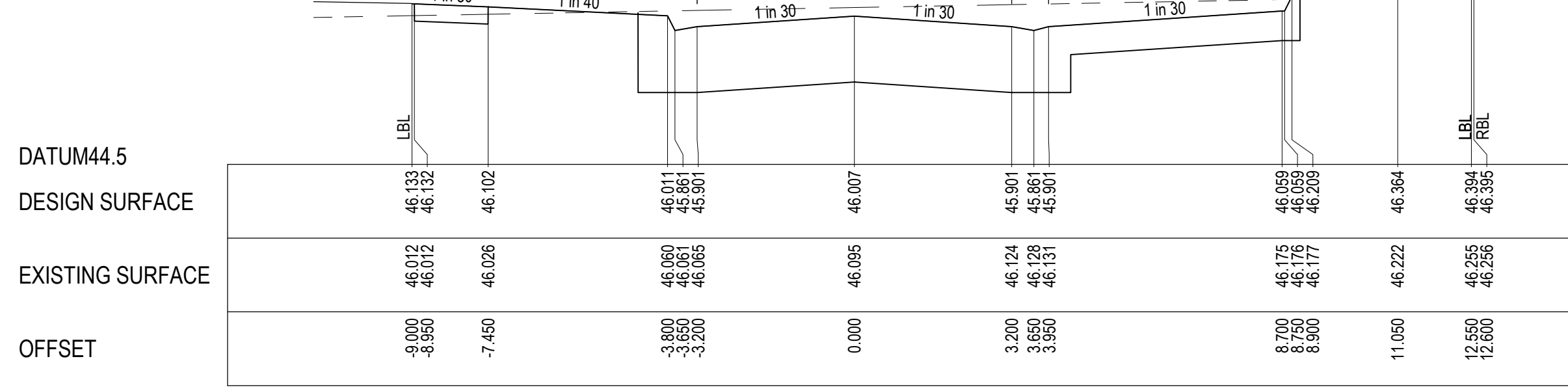
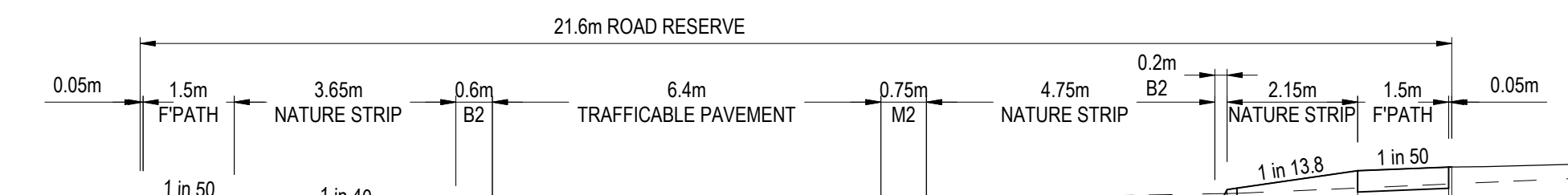
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DIAL 1100 BEFORE YOU DIG
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L.O.W CH 1104.177

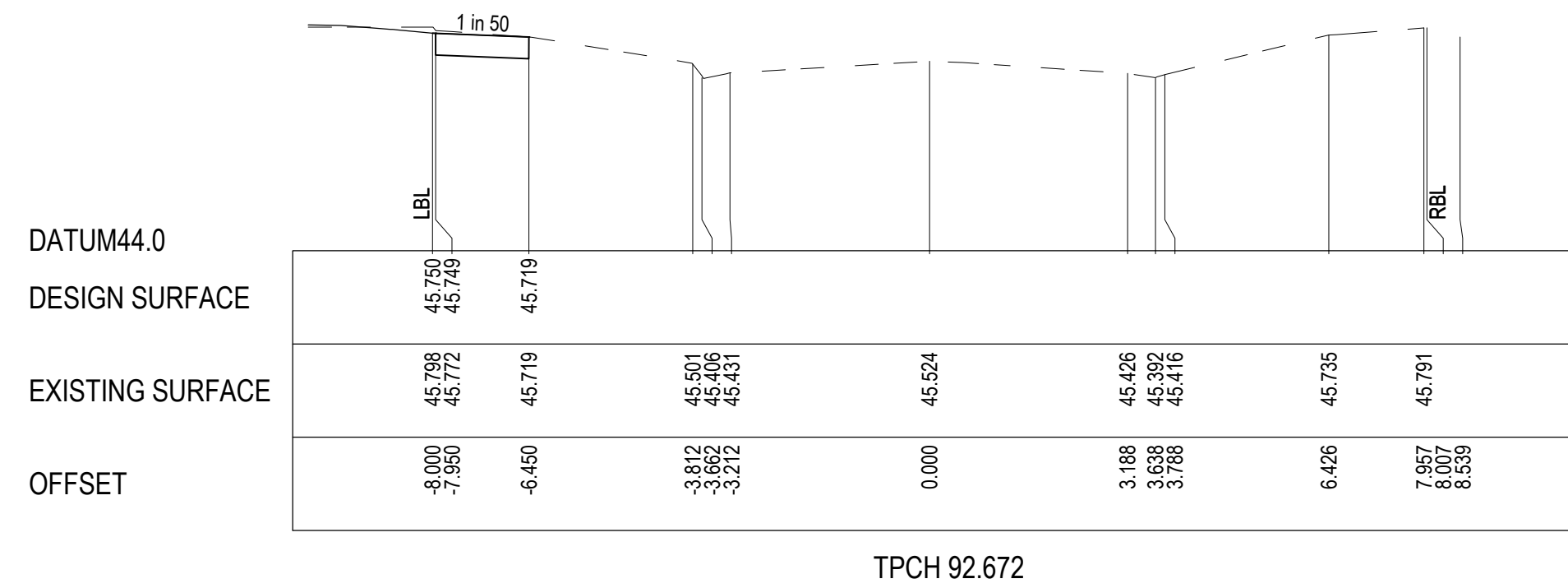


CH 1094.750

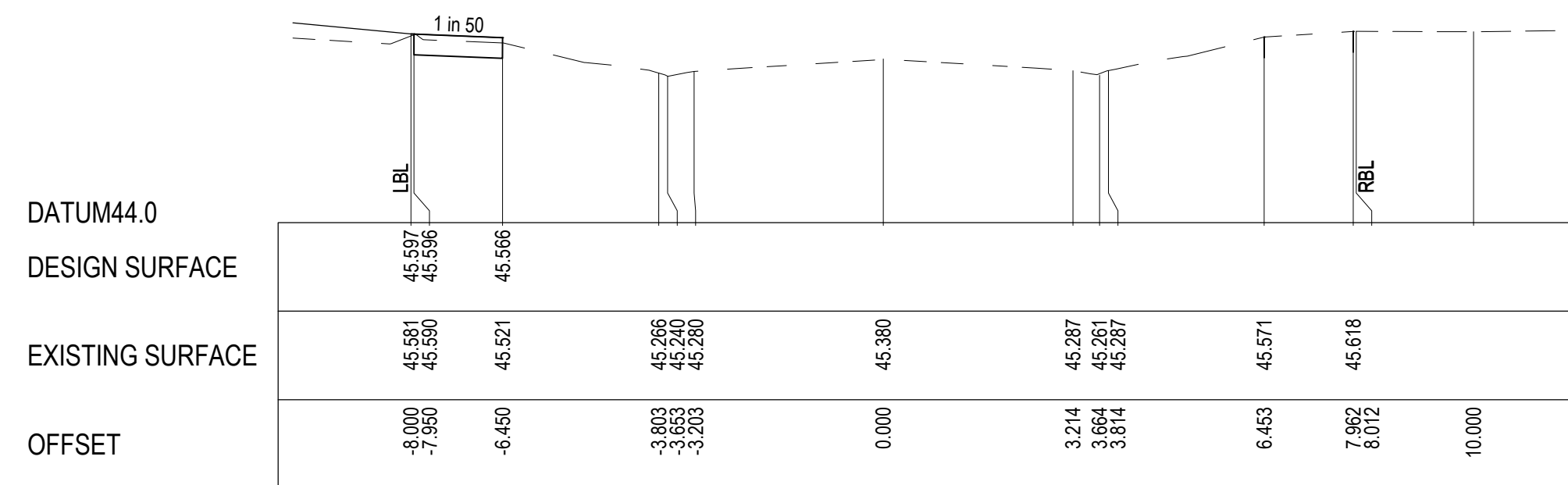


CH 1078.750

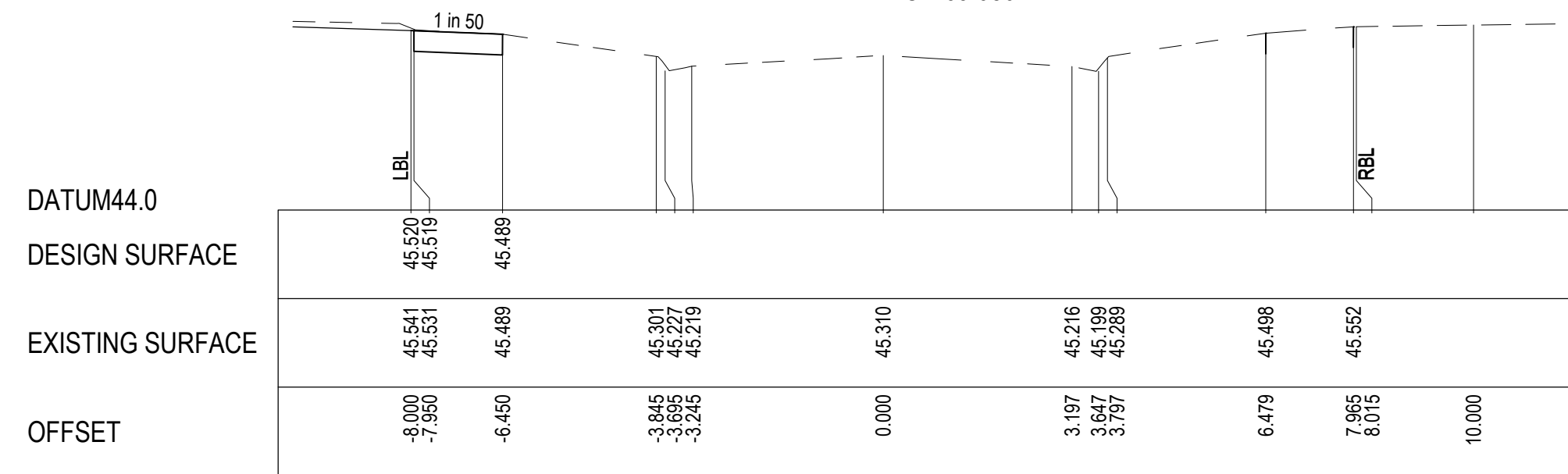
CENTURION AVENUE



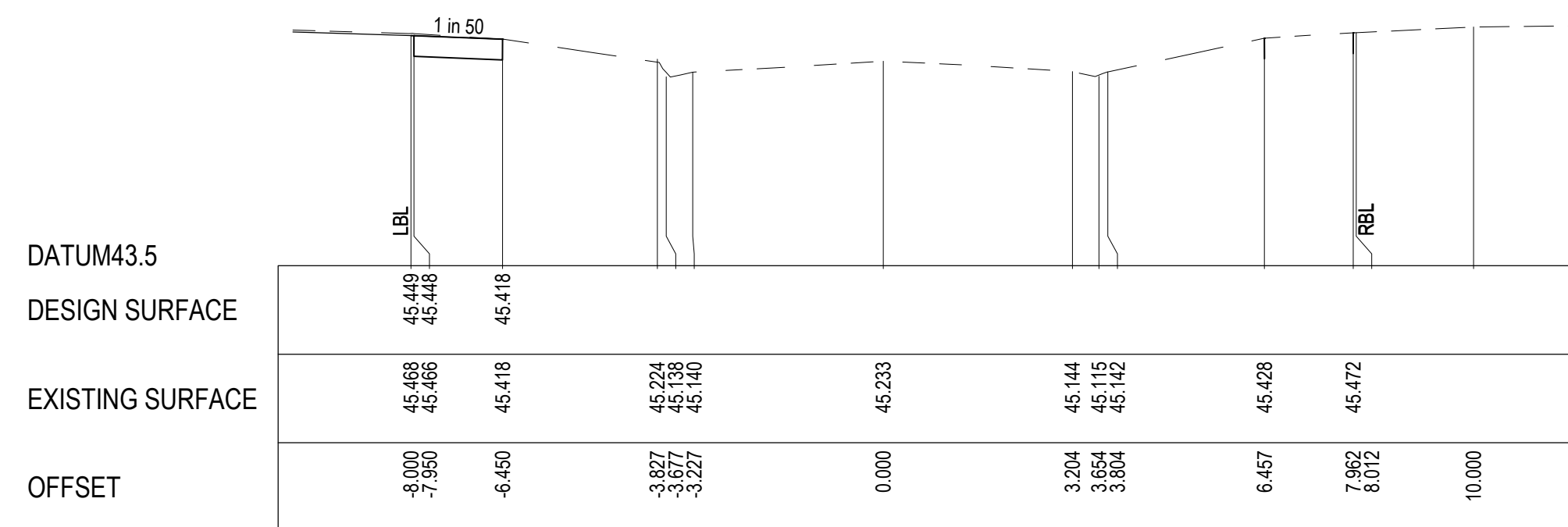
TPCH 92.672



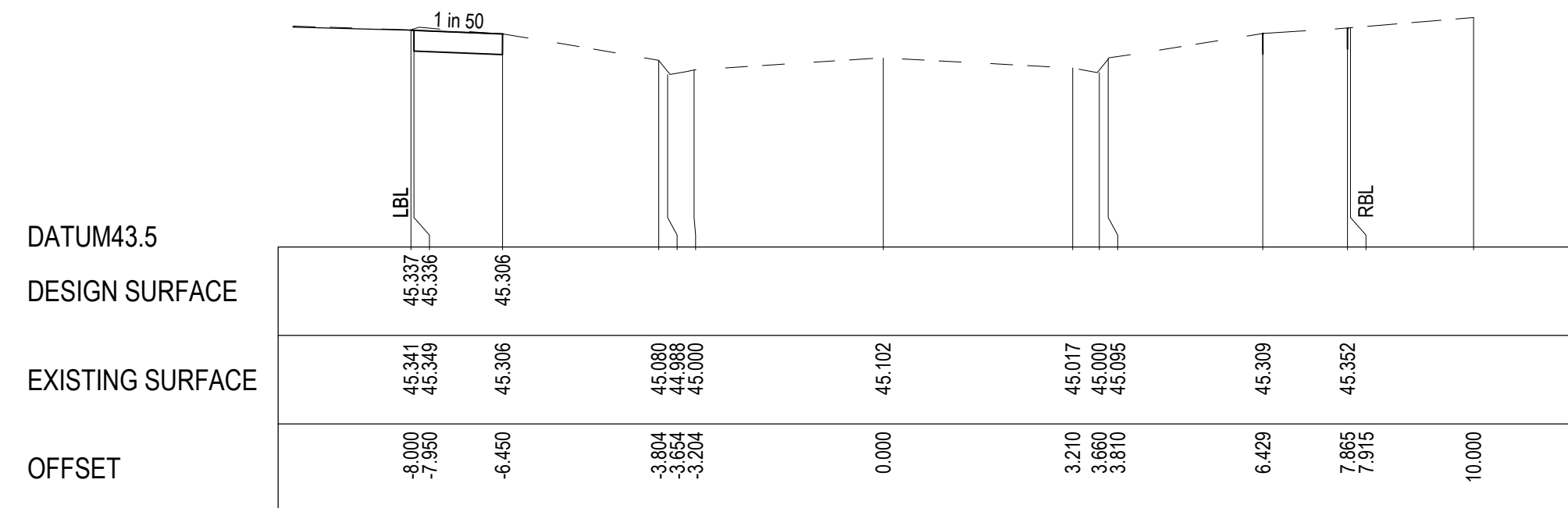
TPCH 69.050



CH 57.000



CH 46.500



CH 25.500

ISHTAR STREET

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

DRAWING TITLE

ALAMORA - STAGE 32
ROAD CROSS SECTIONS - 2
CENTURION AVENUE & ISHTAR STREET


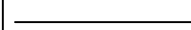
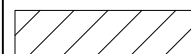
STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1: 1:100 (H) 1:50 (V)

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R501	A

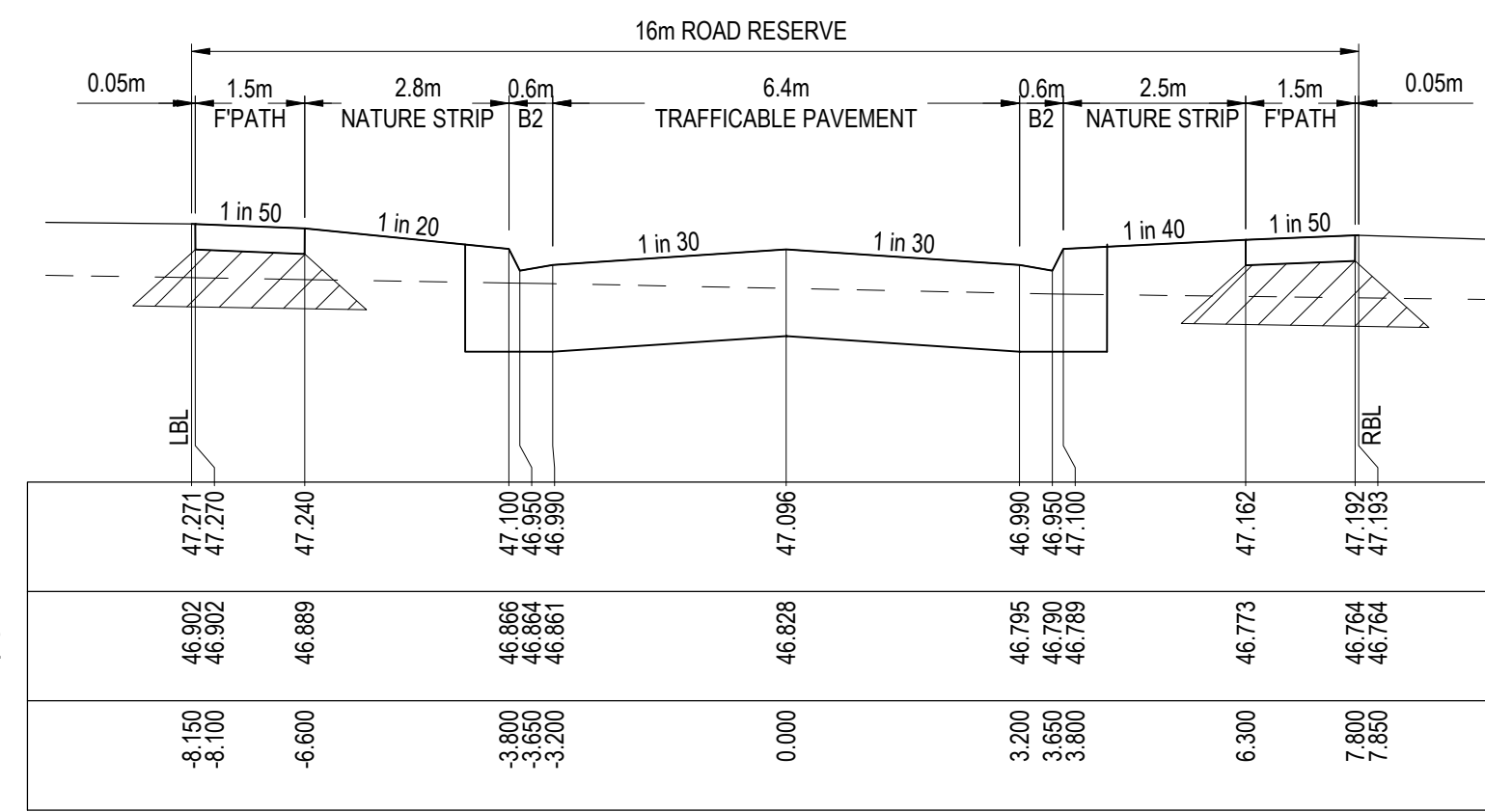
LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT STRUCTURAL FILL

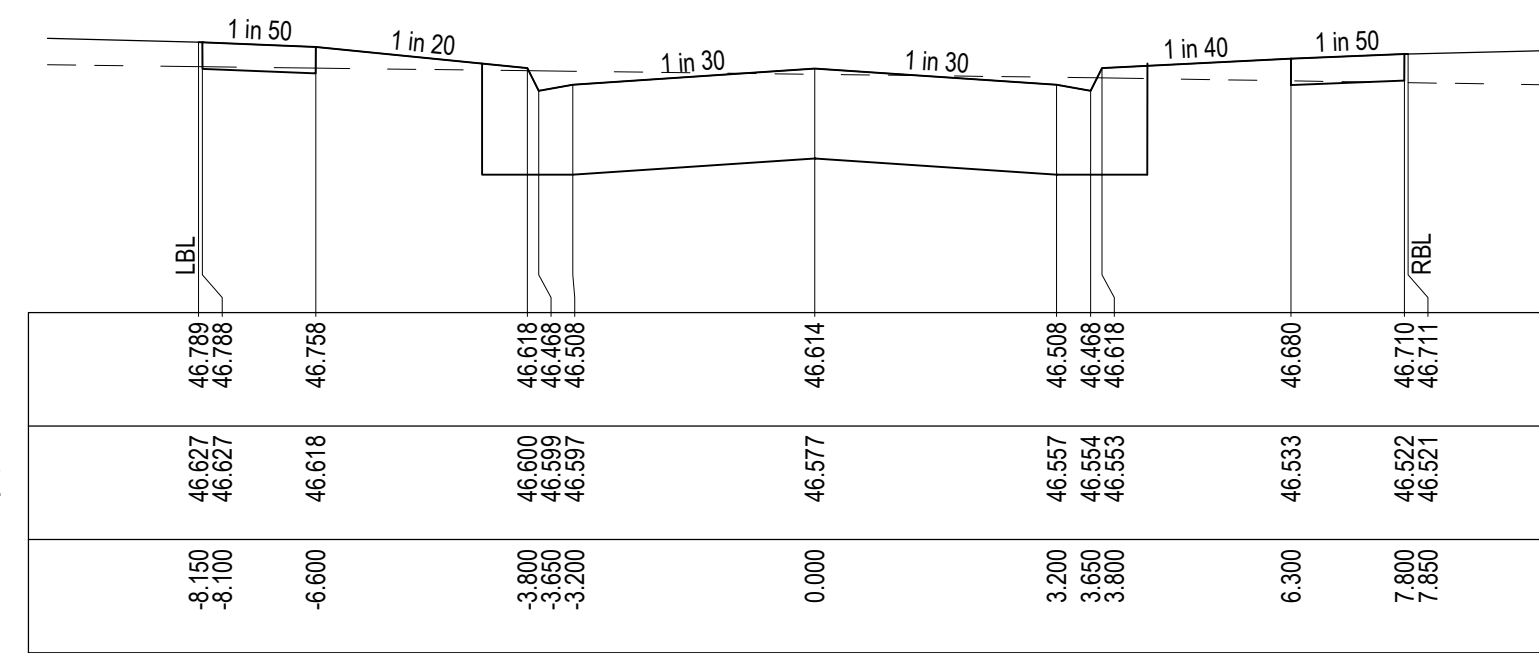
NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY. READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

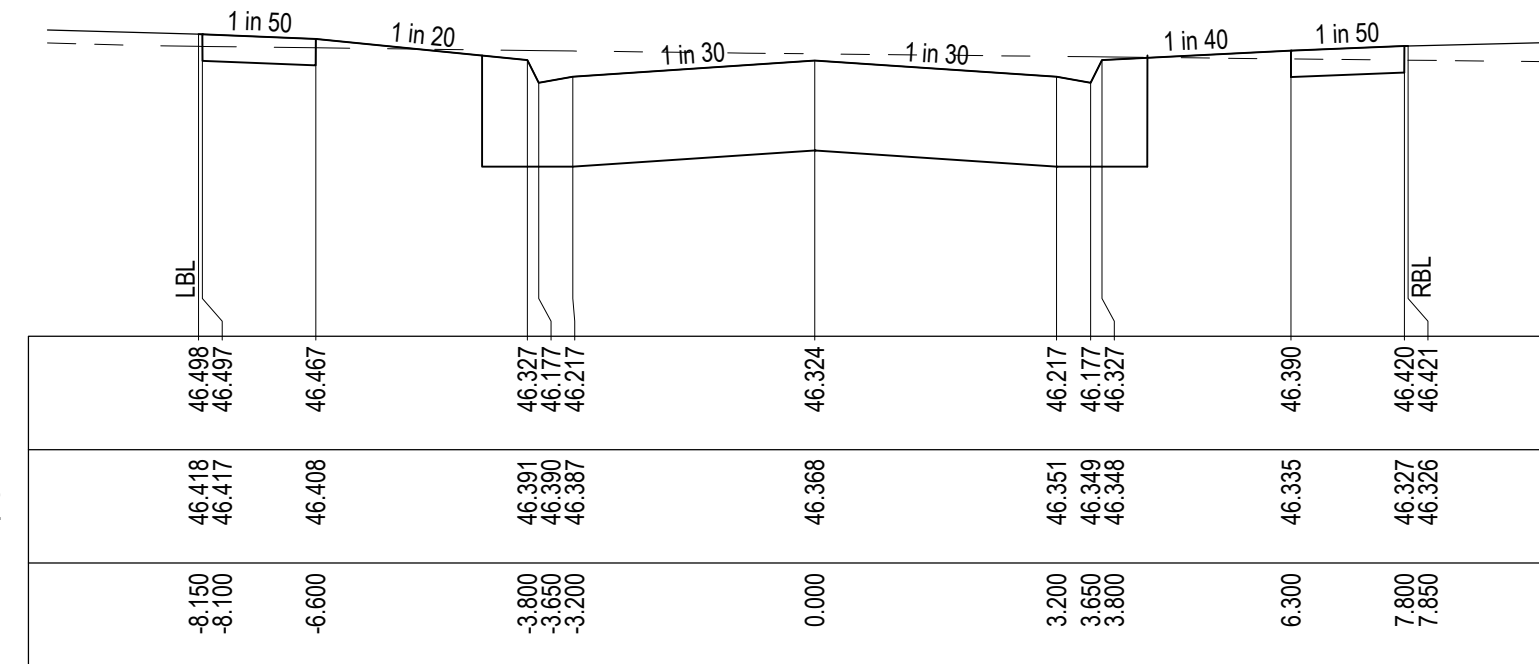
WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



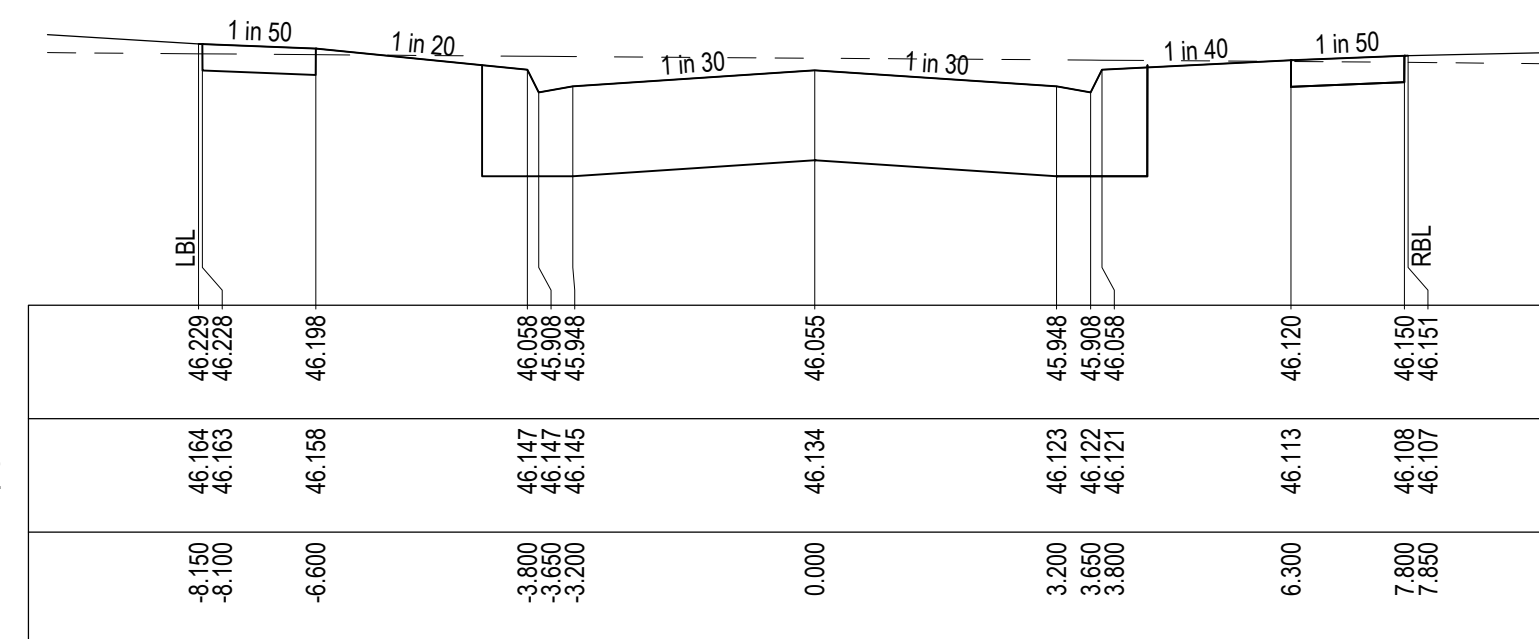
TPCH 69.050



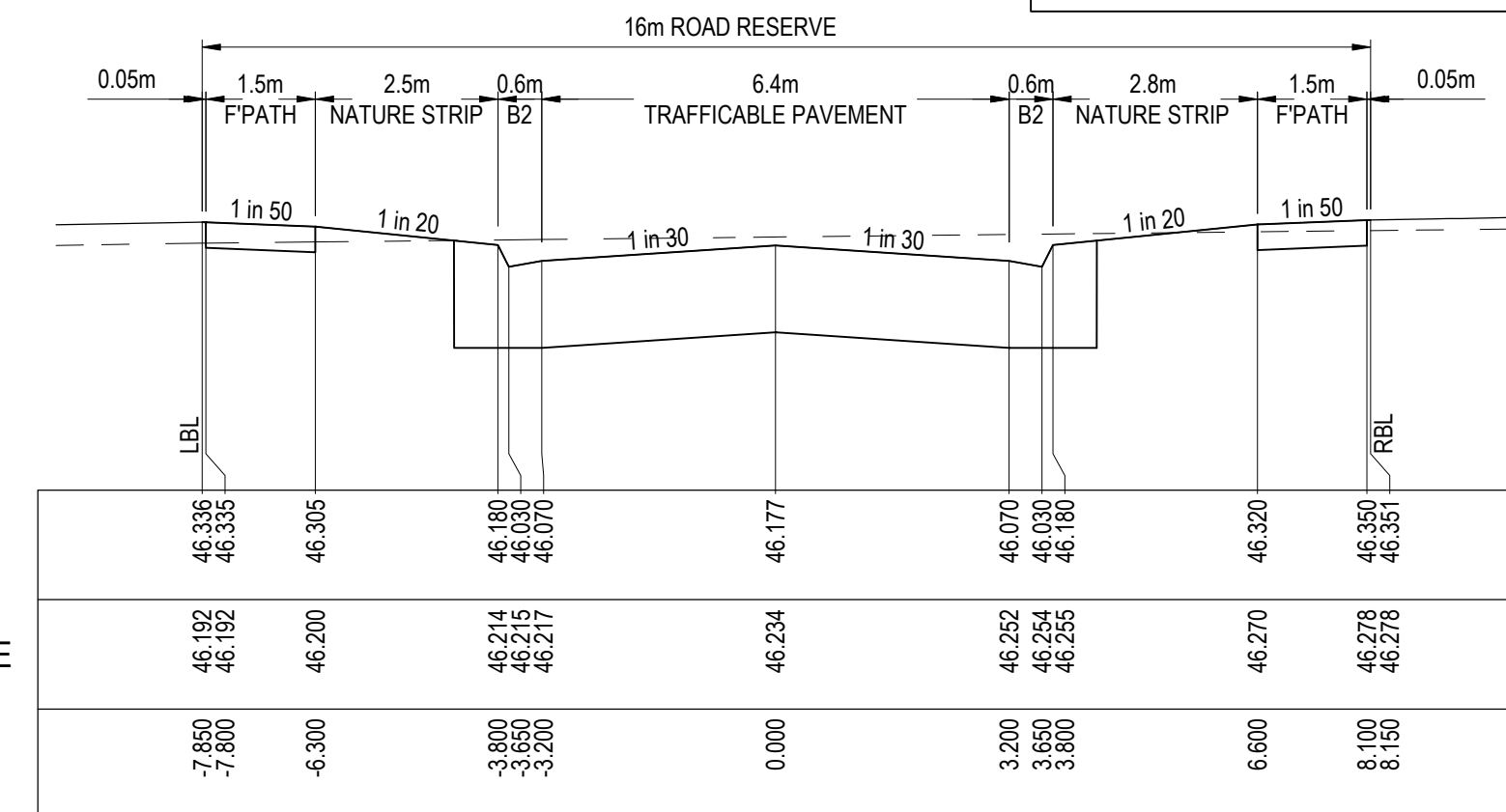
CH 49.500



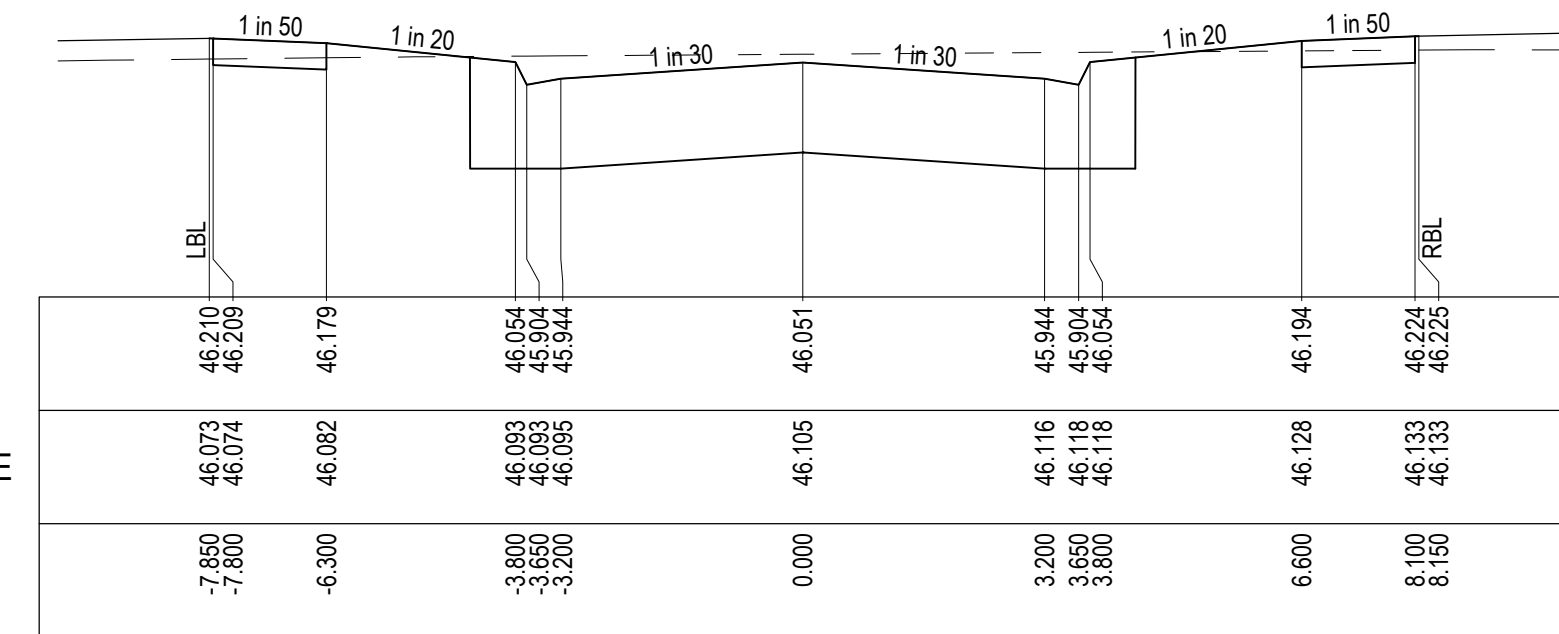
CH 32.500



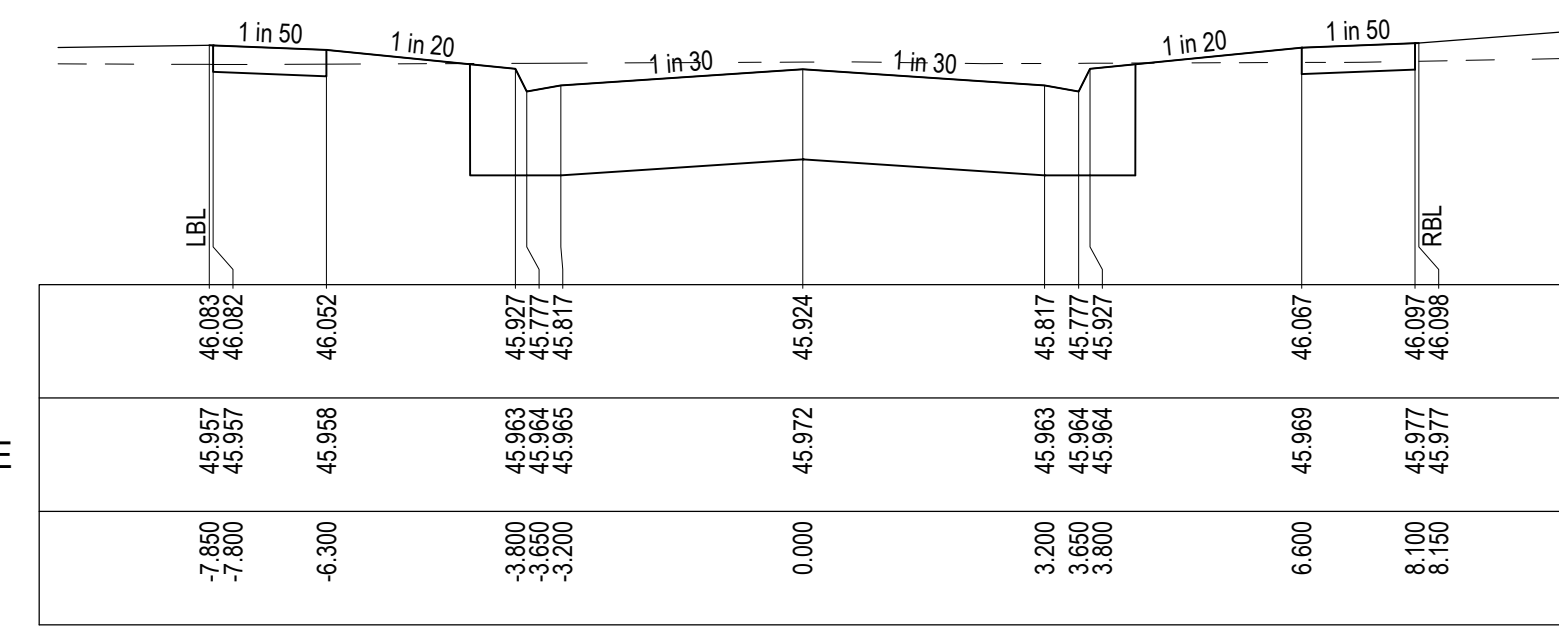
TPCH 11.800
NASUS ENTRANCE



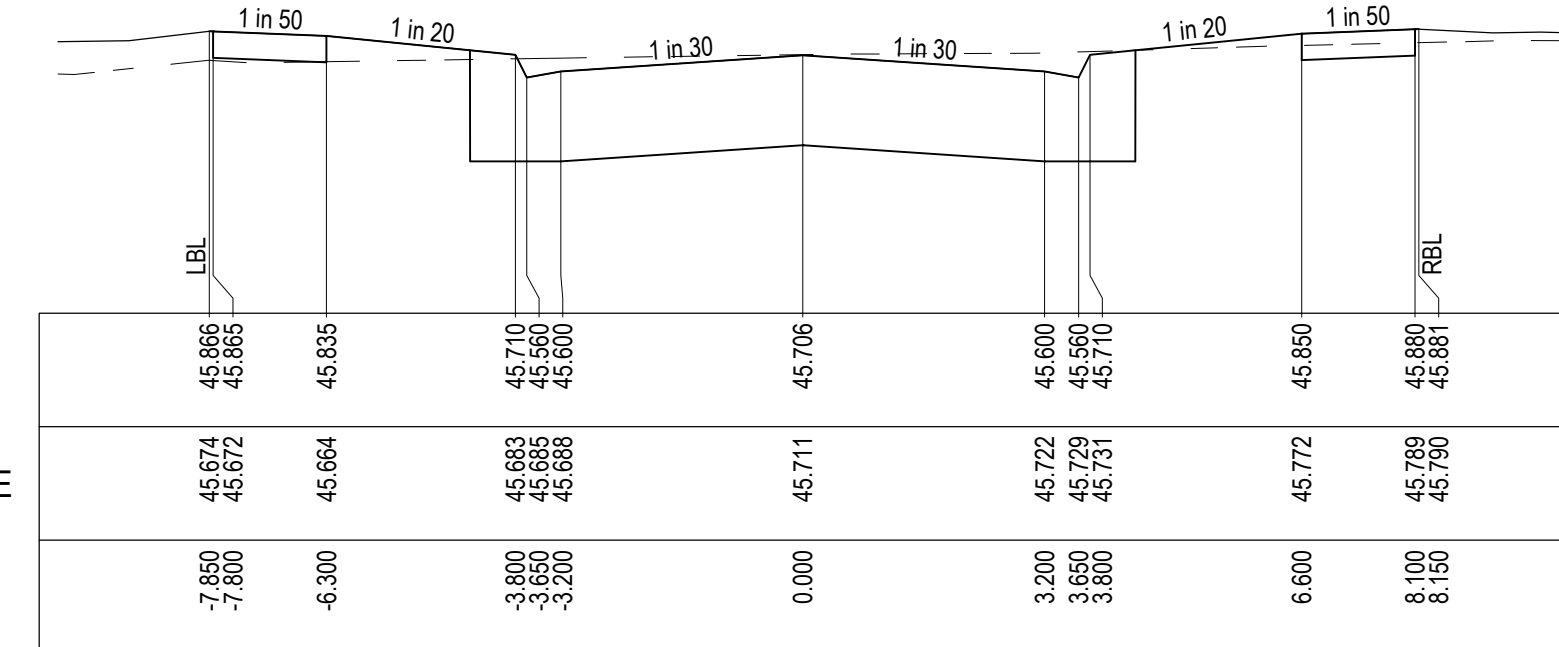
CH 64.066



CH 50.066



CH 36.000



TPCH 11.800
SKYWAY CIRCUIT

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

E:\2025\ENERGY\TPCH\2025\ENERGY\TPCH\1656\ENERGY\SECTION\ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT



Communities Designed for Living

CREO CIVIL



Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT



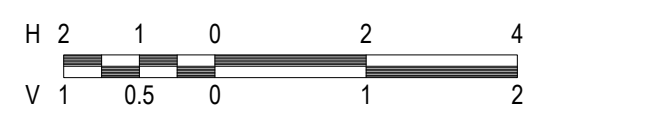
DRAWING TITLE

ALAMORA - STAGE 32
ROAD CROSS SECTIONS - 3
NASUS ENTRANCE & SKYWAY CIRCUIT

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1: 1:100 (H) 1:50 (V)



DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	R502
REVISION			A

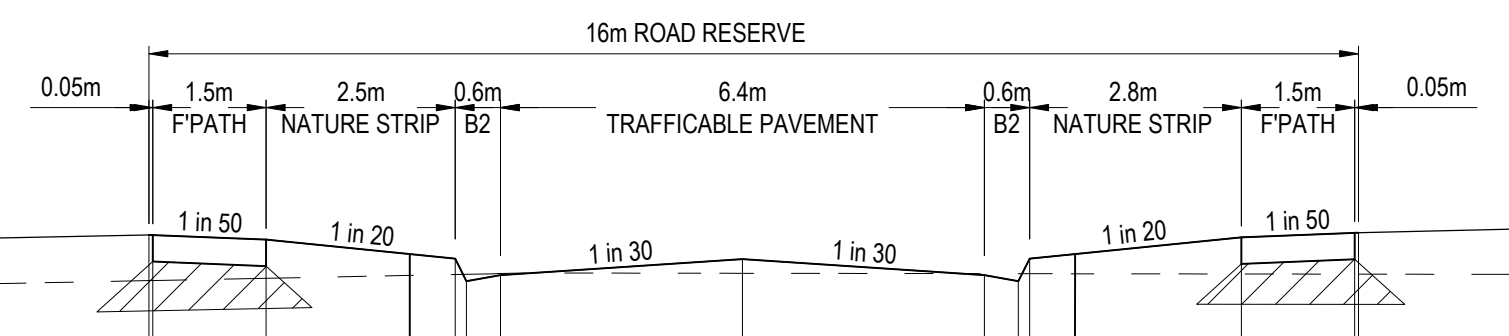
LEGEND

----	EXISTING SURFACE
_____	DESIGN LINE
▨	SELECT STRUCTURAL FILL

NOTE:
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY. READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

NOTE:
SELECT STRUCTURAL FILL IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS & REQUIREMENTS IS REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE EXISTING SURFACE.

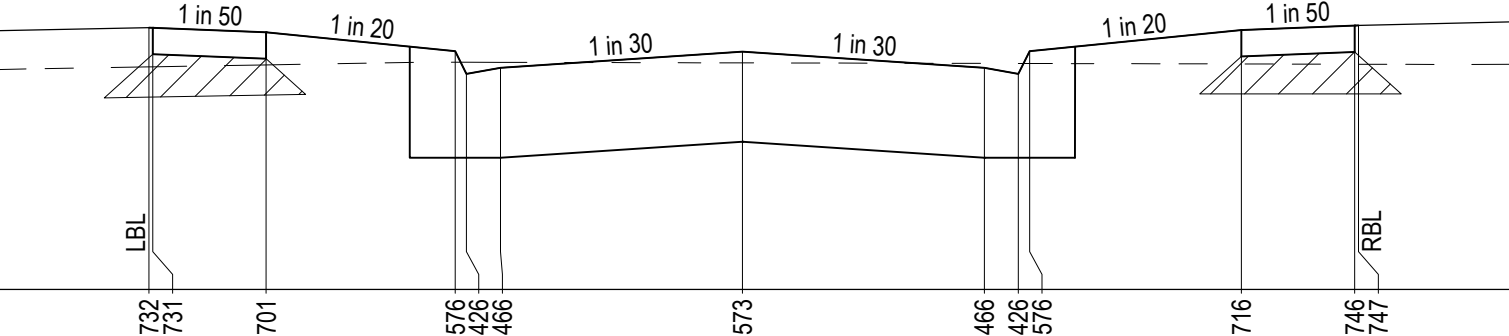
WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



DATUM45.0

DESIGN SURFACE	46.978	46.845	46.570	46.717	46.610	46.620	46.620	46.860	46.890
EXISTING SURFACE	46.574	46.574	46.614	46.616	46.610	46.620	46.620	46.618	46.617
OFFSET	-7.850	-7.800	-3.800	0.000	3.200	3.650	3.800	6.600	8.100

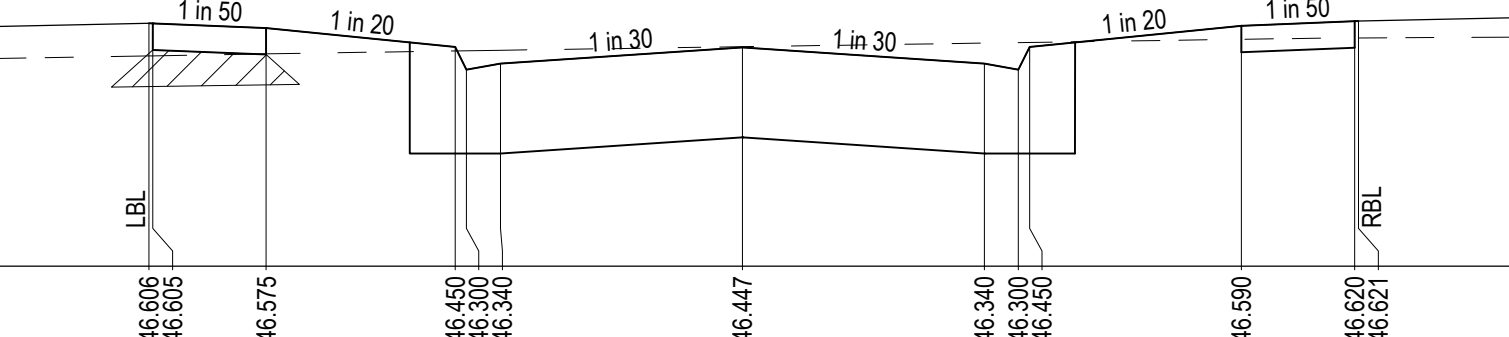
CH 124.066



DATUM45.0

DESIGN SURFACE	46.772	46.701	46.576	46.573	46.466	46.466	46.716	46.746
EXISTING SURFACE	46.472	46.485	46.503	46.499	46.495	46.495	46.491	46.490
OFFSET	-7.850	-7.800	-3.800	0.000	3.200	3.650	3.800	6.600

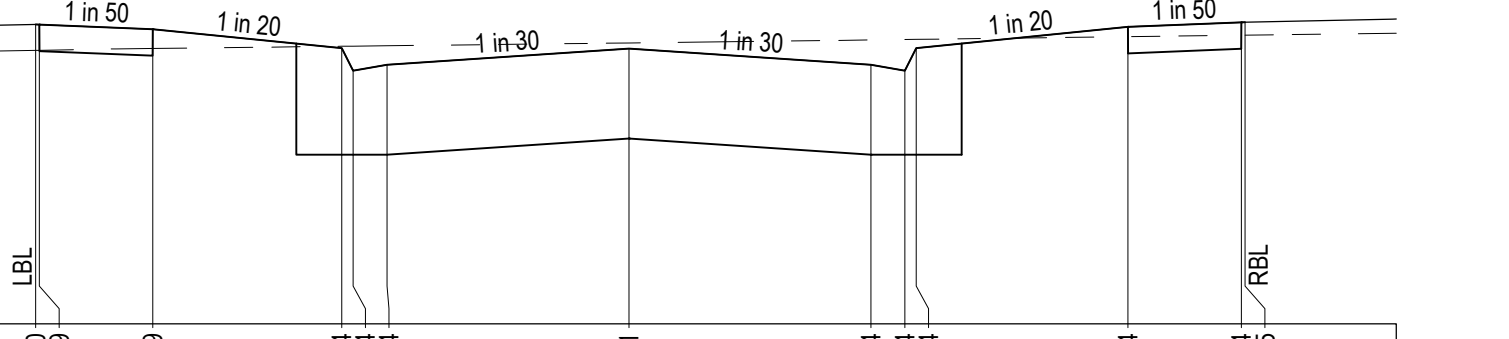
CH 108.066



DATUM45.0

DESIGN SURFACE	46.606	46.575	46.460	46.447	46.340	46.340	46.590	46.620
EXISTING SURFACE	46.391	46.404	46.423	46.428	46.475	46.480	46.500	46.509
OFFSET	-7.850	-7.800	-3.800	0.000	3.200	3.650	3.800	6.600

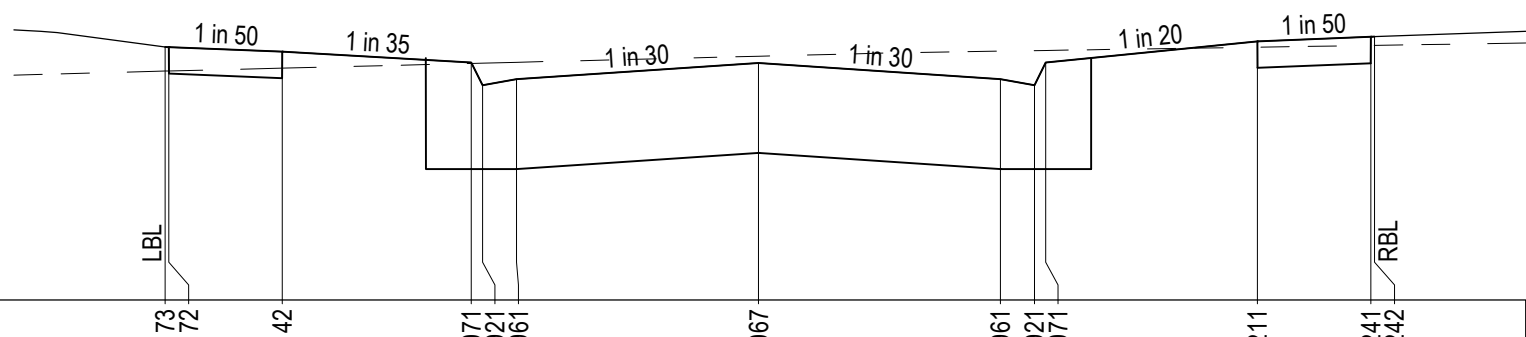
CH 94.066



DATUM44.5

DESIGN SURFACE	46.480	46.449	46.324	46.321	46.214	46.214	46.464	46.494
EXISTING SURFACE	46.309	46.321	46.336	46.337	46.330	46.331	46.399	46.409
OFFSET	-7.850	-7.800	-3.800	0.000	3.200	3.650	3.800	6.600

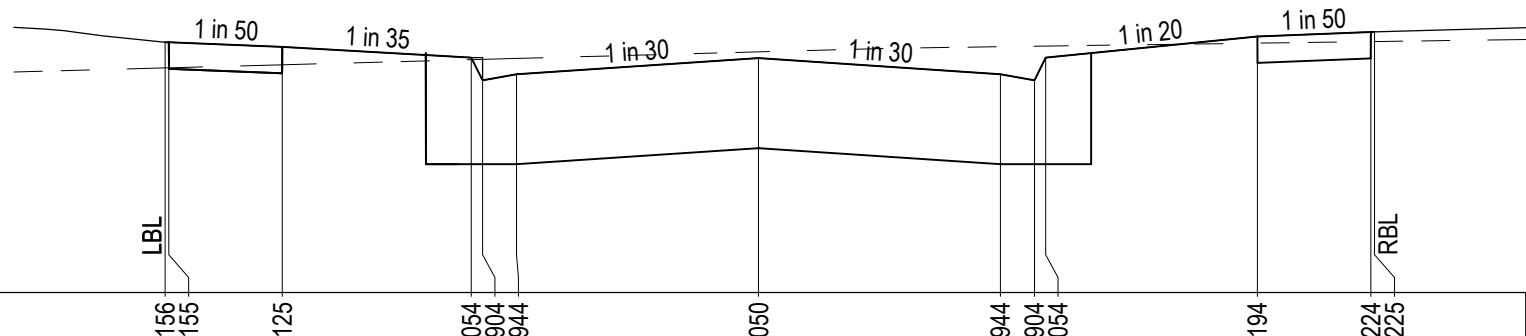
CH 80.066



DATUM45.5

DESIGN SURFACE	47.173	47.142	47.071	47.067	46.961	46.921	47.211	47.241
EXISTING SURFACE	47.014	47.034	47.065	47.072	47.146	47.151	47.172	47.184
OFFSET	-7.850	-6.300	-3.800	0.000	3.200	3.650	6.600	8.100

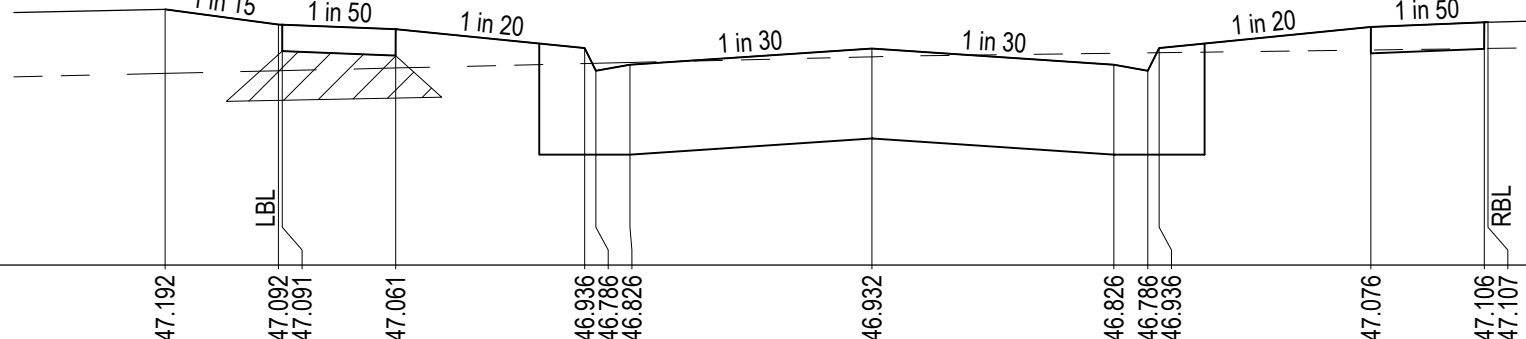
L.O.W.CH 184.066



DATUM45.5

DESIGN SURFACE	47.155	47.125	47.054	47.050	46.944	46.904	47.194	47.224
EXISTING SURFACE	46.986	47.007	47.040	47.045	47.126	47.130	47.150	47.160
OFFSET	-7.850	-6.300	-3.800	0.000	3.200	3.650	6.600	8.100

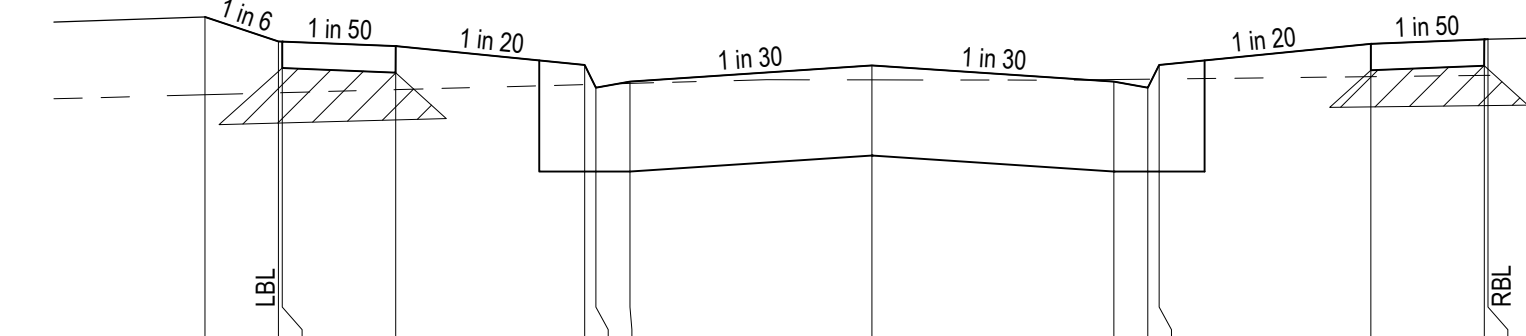
LTPCH 180.650



DATUM45.5

DESIGN SURFACE	47.192	47.092	47.061	46.996	46.932	46.826	47.076	47.106
EXISTING SURFACE	46.788	46.786	46.804	46.833	46.878	46.901	46.923	46.933
OFFSET	-9.350	-7.800	-6.300	-3.800	0.000	3.200	6.600	8.100

LTPCH 157.050



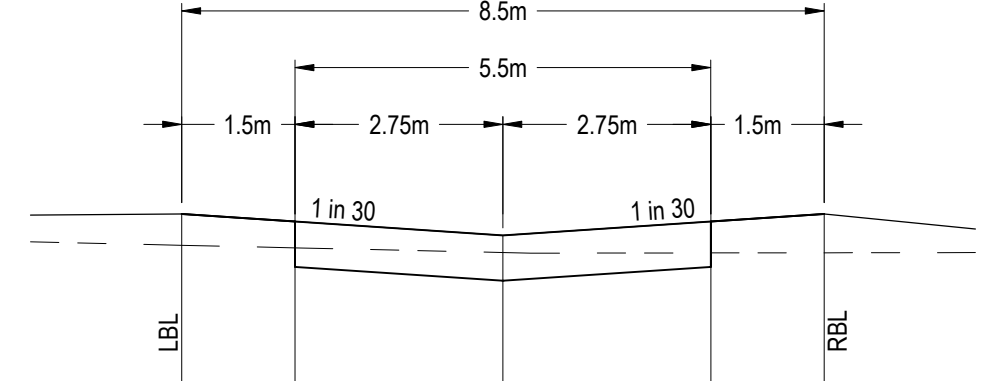
DATUM45.0

DESIGN SURFACE	47.169	47.007	46.851	46.847	46.741	46.651	46.991	47.021
EXISTING SURFACE	46.654	46.667	46.721	46.753	46.754	46.756	46.773	46.782
OFFSET	-8.821	-7.800	-3.800	0.000	3.200	3.800	6.600	8.100

CH 140.066

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025



DATUM45.5

DESIGN SURFACE	46.663	46.613	46.521	46.613	46.663
EXISTING SURFACE	46.456	46.439	46.408	46.406	46.406
OFFSET	-4.250	-2.750	0.000	2.750	4.250

L.O.W.CH 15.600

MOONSHIRE LANE

SKYWAY CIRCUIT

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T



**ALAMORA - STAGE 32
ROAD CROSS SECTIONS - 4
SKYWAY CIRCUIT & MOONSHIRE LANE**

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:100 (H) 1:50 (V)
H 2 1 0 2 4
V 1 0.5 0 1 2

DESIGNED M.PLANT	PROJECT ENGINEER A.WALE
DRAWN M.PLANT	PROJECT MANAGER M.TROUNCE
PROJECT No. 200282.32	DRAWING No. R503
REVISION A	

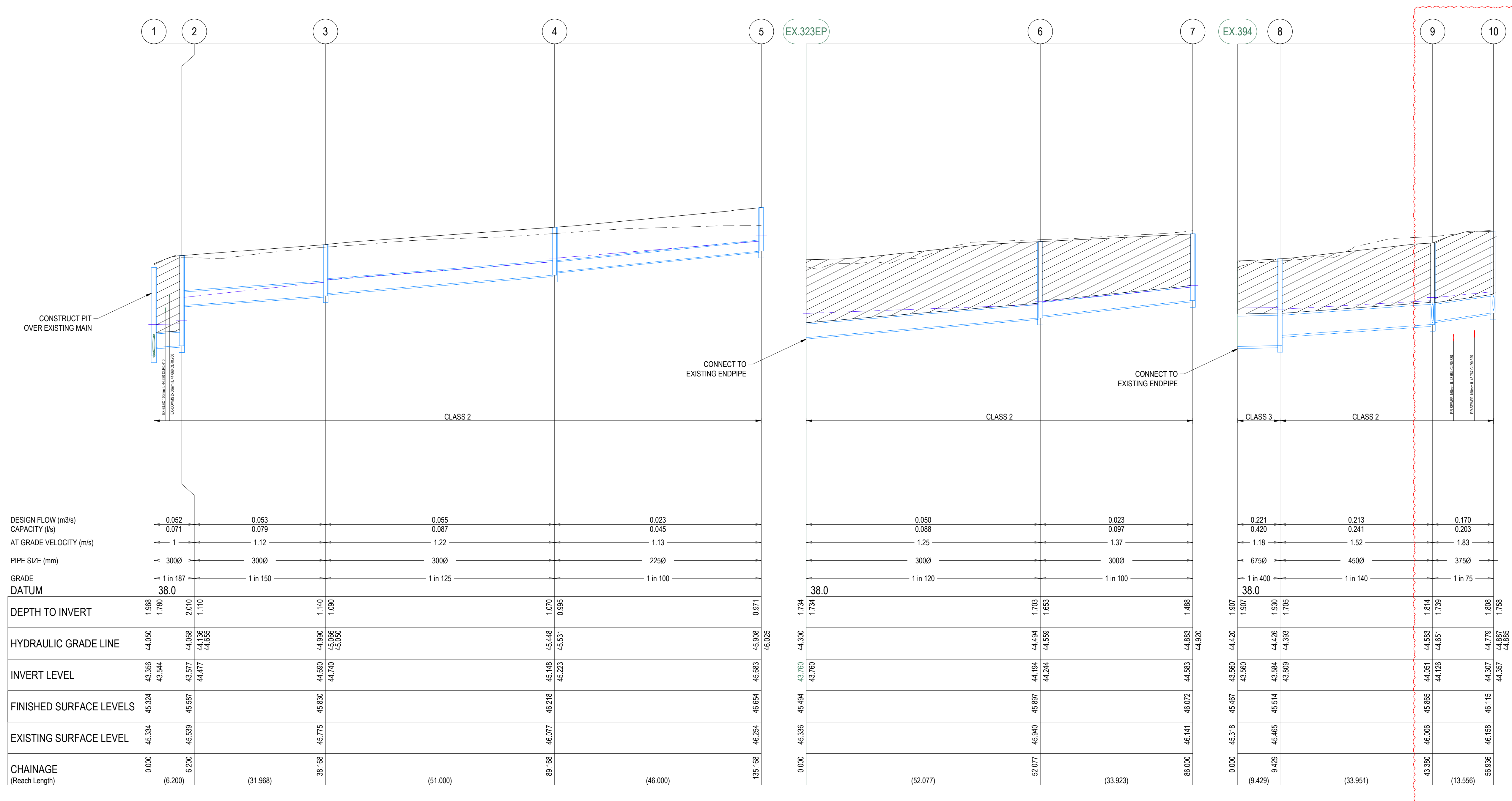
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Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	INDICATIVE ELECTRICITY
	INDICATIVE GAS
	INDICATIVE OPTIC
	INDICATIVE RECYCLE WATER
	INDICATIVE WATER
	INDICATIVE SEWER
	EXISTING SERVICES
	CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 RCP TYPE UNLESS OTHERWISE SHOWN



	1	2	3	4	5
DESIGN FLOW (m³/s)	0.052	0.053		0.055	0.023
CAPACITY (l/s)	0.071	0.079		0.087	0.045
AT GRADE VELOCITY (m/s)	1	1.12		1.22	1.13
PIPE SIZE (mm)	3000	3000		3000	2250
GRADE	1 in 187	1 in 150		1 in 125	1 in 100
DATUM	38.0				
DEPTH TO INVERT	1.968 1.780				0.971
HYDRAULIC GRADE LINE	44.050				46.025
INVERT LEVEL	43.396 43.544				45.883
FINISHED SURFACE LEVELS	45.324	45.587	45.830	46.218	46.654
EXISTING SURFACE LEVEL	45.334	45.539	45.775	46.077	46.254
CHAINAGE (Reach Length)	0.000 (6.200)		38.168 (31.968)	89.168 (51.000)	135.168

	6	7
DESIGN FLOW (m³/s)	0.050	0.023
CAPACITY (l/s)	0.088	0.097
AT GRADE VELOCITY (m/s)	1.25	1.37
PIPE SIZE (mm)	3000	3000
GRADE	1 in 120	1 in 100
DATUM	38.0	
DEPTH TO INVERT	1.734 1.734	1.488
HYDRAULIC GRADE LINE	44.300	44.920
INVERT LEVEL	43.760 43.760	44.593
FINISHED SURFACE LEVELS	45.494	46.072
EXISTING SURFACE LEVEL	45.336	46.141
CHAINAGE (Reach Length)	0.000 (52.077)	86.000 (33.923)

	8	9	10
DESIGN FLOW (m³/s)	0.221	0.213	0.170
CAPACITY (l/s)	0.420	0.241	0.203
AT GRADE VELOCITY (m/s)	1.18	1.52	1.83
PIPE SIZE (mm)	6750	4500	3750
GRADE	1 in 400	1 in 140	1 in 75
DATUM	38.0		
DEPTH TO INVERT	1.907 1.907	1.814	1.808
HYDRAULIC GRADE LINE	44.420	44.651	44.779
INVERT LEVEL	43.960 43.960	44.126	44.357
FINISHED SURFACE LEVELS	45.467	45.985	46.115
EXISTING SURFACE LEVEL	45.316	46.006	46.158
CHAINAGE (Reach Length)	0.000 (9.429)	43.980 (33.951)	56.006 (13.556)



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	DRAINAGE UPDATED	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32
DRAINAGE LONG SECTIONS - 1

STATUS

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

M.TROUNCE

DRAWING No.

R600

REVISION

B

E:\1205\MEGA\ITEM\1205\MEGA\1205\ENERGY\SERVICE\1456\EA\WEDBD_456E_45D-8833\9730\3A\12E\202502_32_1800_DRAINAGE LONG SECTIONS.DWG

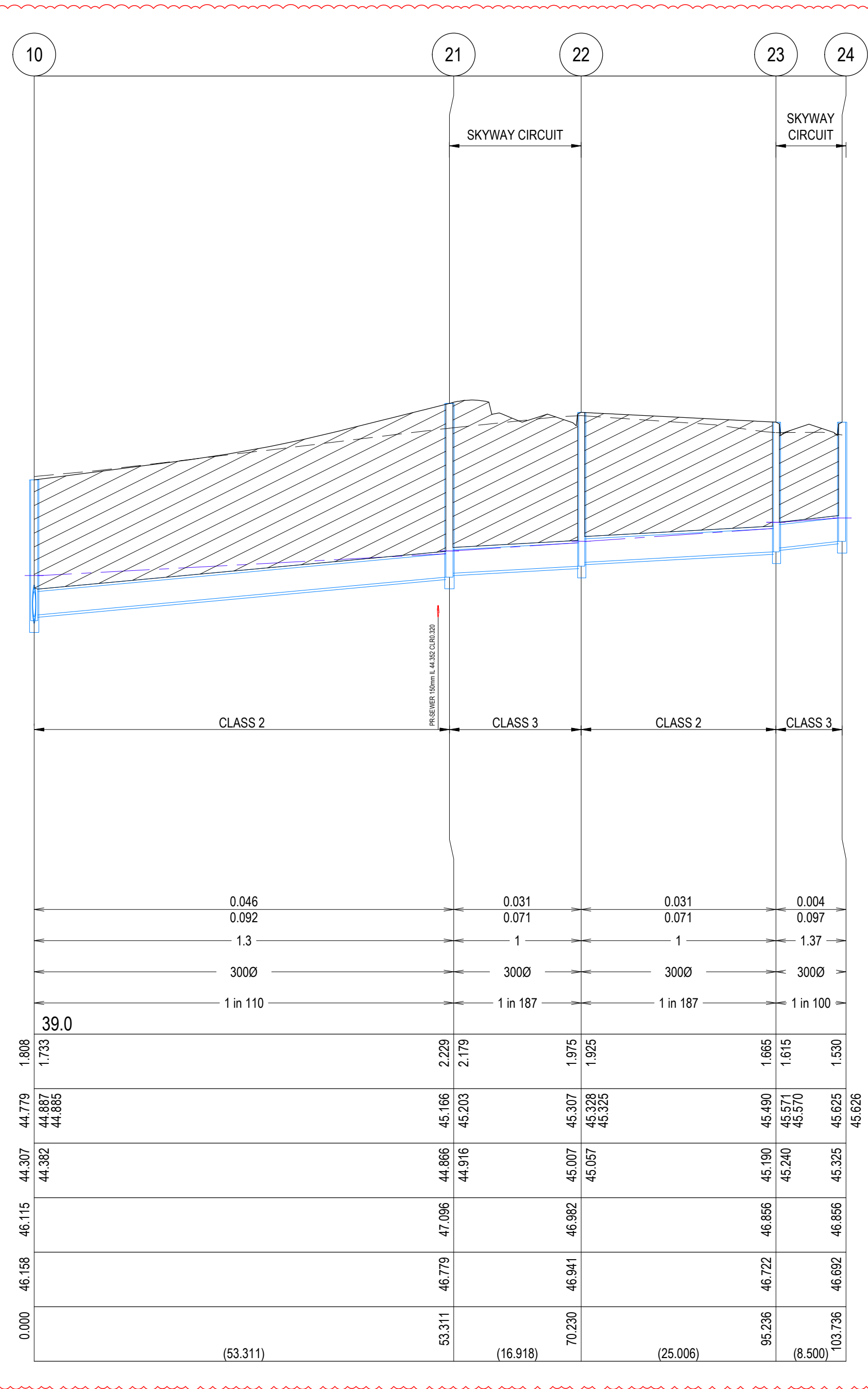
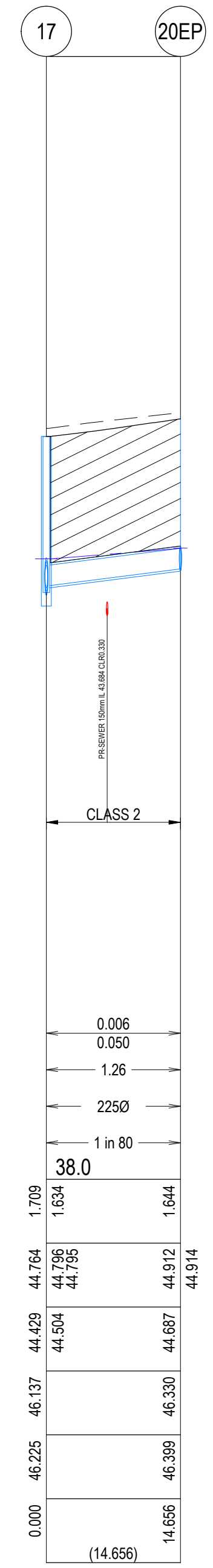
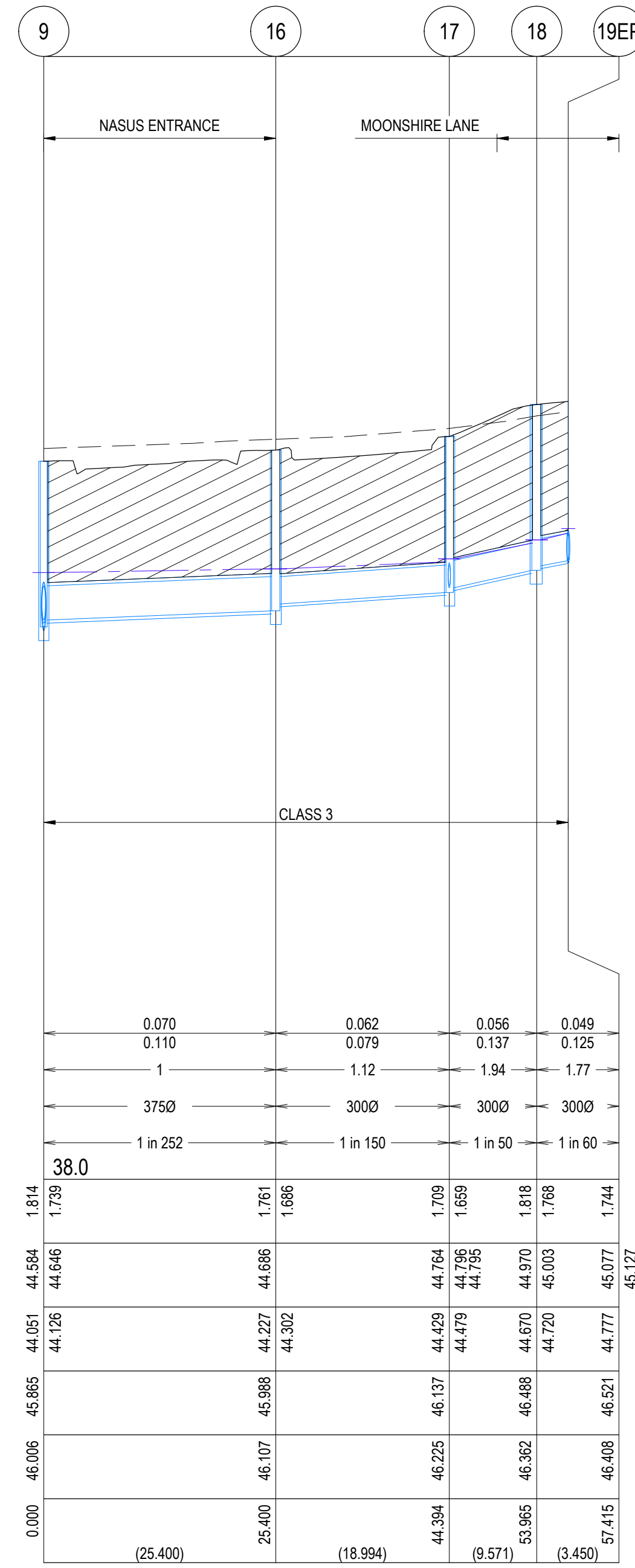
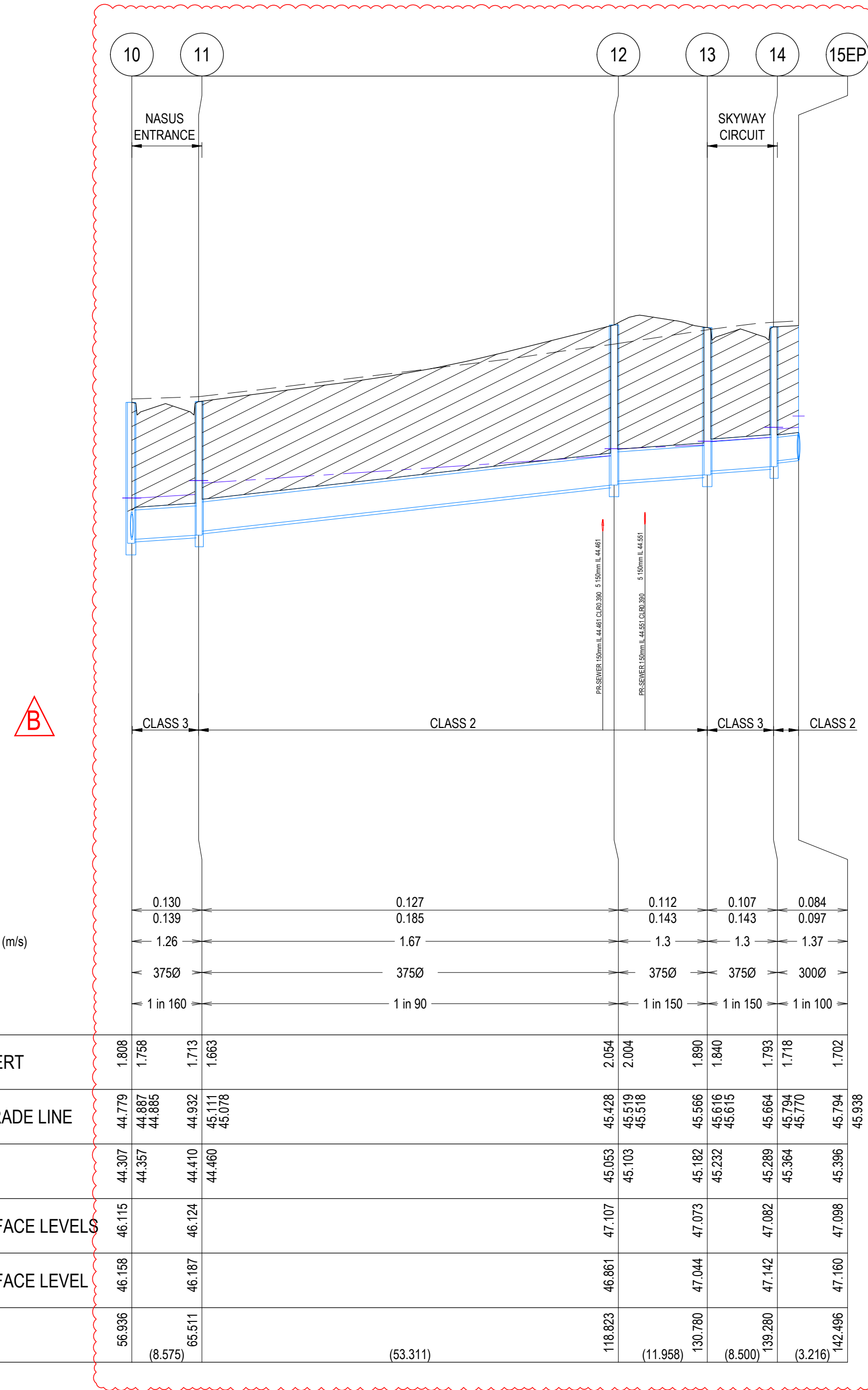
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- INDICATIVE ELECTRICITY
- INDICATIVE GAS
- INDICATIVE OPTIC
- INDICATIVE RECYCLE WATER
- INDICATIVE WATER
- INDICATIVE SEWER
- EXISTING SERVICES
- CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 RCP
TYPE UNLESS OTHERWISE SHOWN



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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	DRAINAGE UPDATED	M.P.	A.W.	M.T.
A	23/07/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Breamsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32
DRAINAGE LONG SECTIONS - 2

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

M.TROUNCE

DRAWING No.

R601

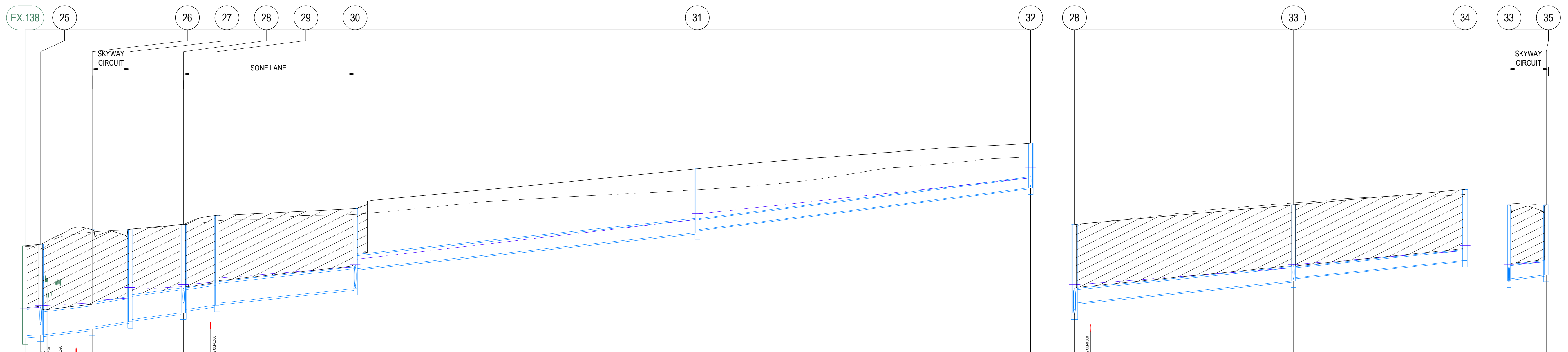
REVISION

B

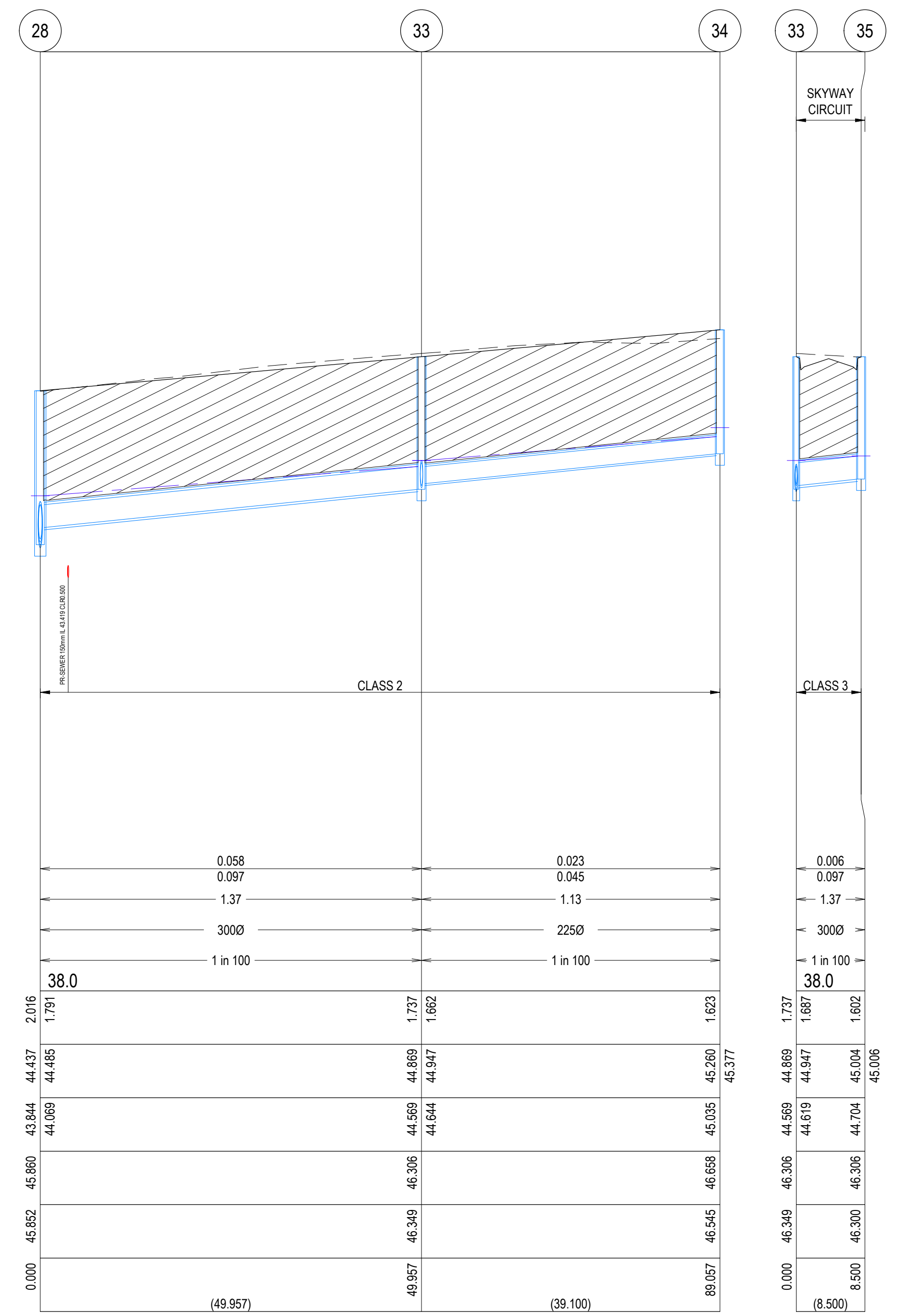
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	INDICATIVE ELECTRICITY
	INDICATIVE GAS
	INDICATIVE OPTIC
	INDICATIVE RECYCLE WATER
	INDICATIVE WATER
	INDICATIVE SEWER
	EXISTING SERVICES
	CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 RCP TYPE UNLESS OTHERWISE SHOWN

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025



	25	26	27	28	29	30	31	32	
DESIGN FLOW (m³/s)	0.373	0.313	0.309	0.305	0.256	0.257	0.088	0.046	
CAPACITY (ls)	0.434	0.454	0.514	0.481	0.319	0.293	0.099	0.050	
AT GRADE VELOCITY (m/s)	1.54	2.09	2.38	2.22	2.01	1.84	1.4	1.26	
PIPE SIZE (mm)	6000	5250	5250	5250	4500	4500	3000	2250	
GRADE	1 in 200	1 in 90	1 in 70	1 in 80	1 in 80	1 in 95	1 in 95	1 in 80	
DATUM	38.0								
DEPTH TO INVERT	2.103	2.053	2.269	2.219	2.109	2.059	1.823	1.373	
HYDRAULIC GRADE LINE	43.950	43.270	43.468	44.067	44.175	44.437	44.890	45.967	
INVERT LEVEL	43.320	43.338	43.518	43.642	44.420	44.485	45.667	46.103	
FINISHED SURFACE LEVELS	45.373	45.405	45.737	45.750	45.860	46.066	46.219	47.127	
EXISTING SURFACE LEVEL	45.349	45.393	45.866	45.747	45.862	45.941	46.090	46.649	
CHAINAGE (Reach Length)	0.000 (3.554)	3.554 (11.739)	15.293 (8.633)	23.926 (12.203)	36.129 (7.652)	43.782 (31.450)	75.232 (153.248)	128.464 (76.000)	204.464 (229.248)



E:\2025\MEQ\TEMP\2025\MEQ\PROJECTS\200282.32 - R602 - DRAINAGE LONG SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

**ALAMORA - STAGE 32
DRAINAGE LONG SECTIONS - 3**

STATUS

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

M.TROUNCE

DRAWING No.

R602

REVISION

A

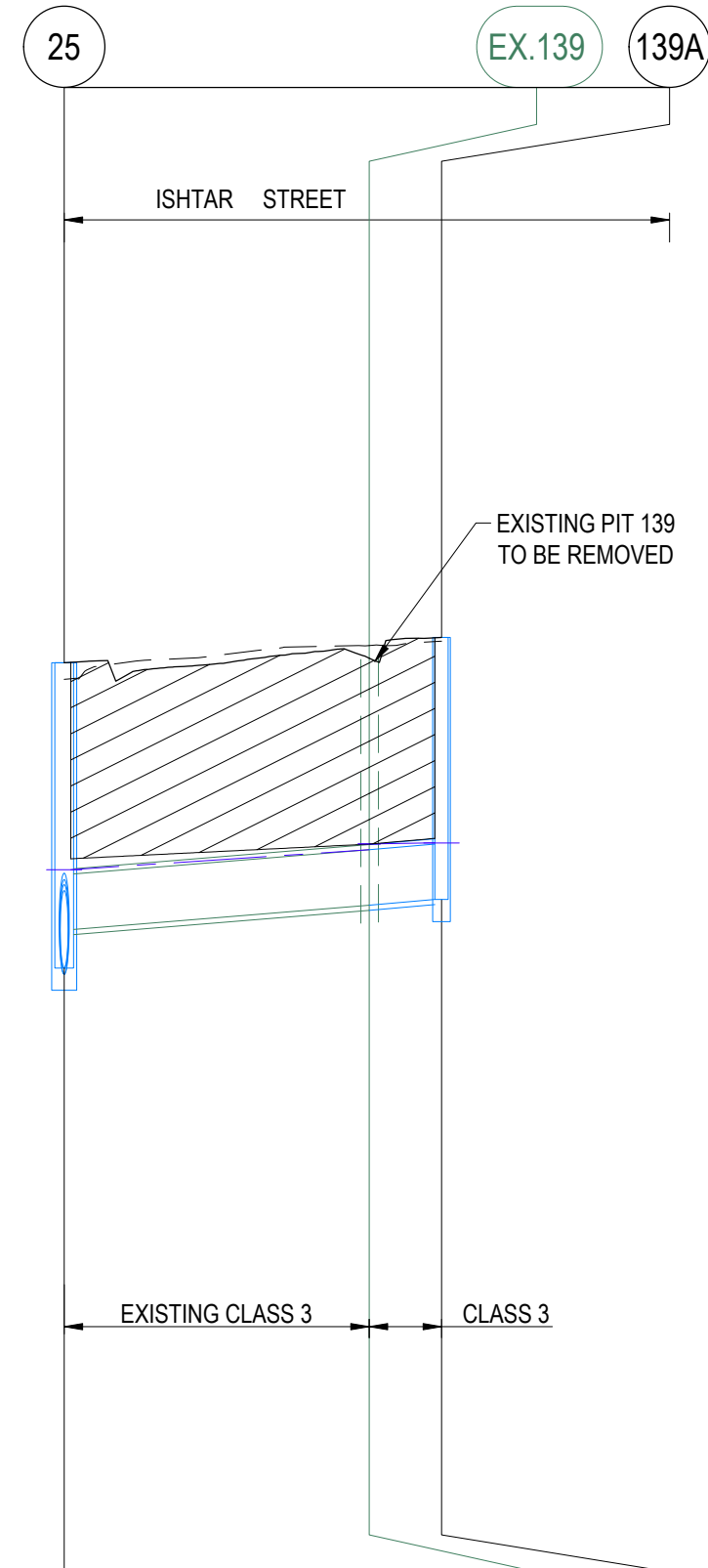
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- INDICATIVE ELECTRICITY
- INDICATIVE GAS
- INDICATIVE OPTIC
- INDICATIVE RECYCLE WATER
- INDICATIVE WATER
- INDICATIVE SEWER
- EXISTING SERVICES
- CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 RCP TYPE UNLESS OTHERWISE SHOWN

**Planning and Environment Act 1987
Wyndham Planning Scheme**

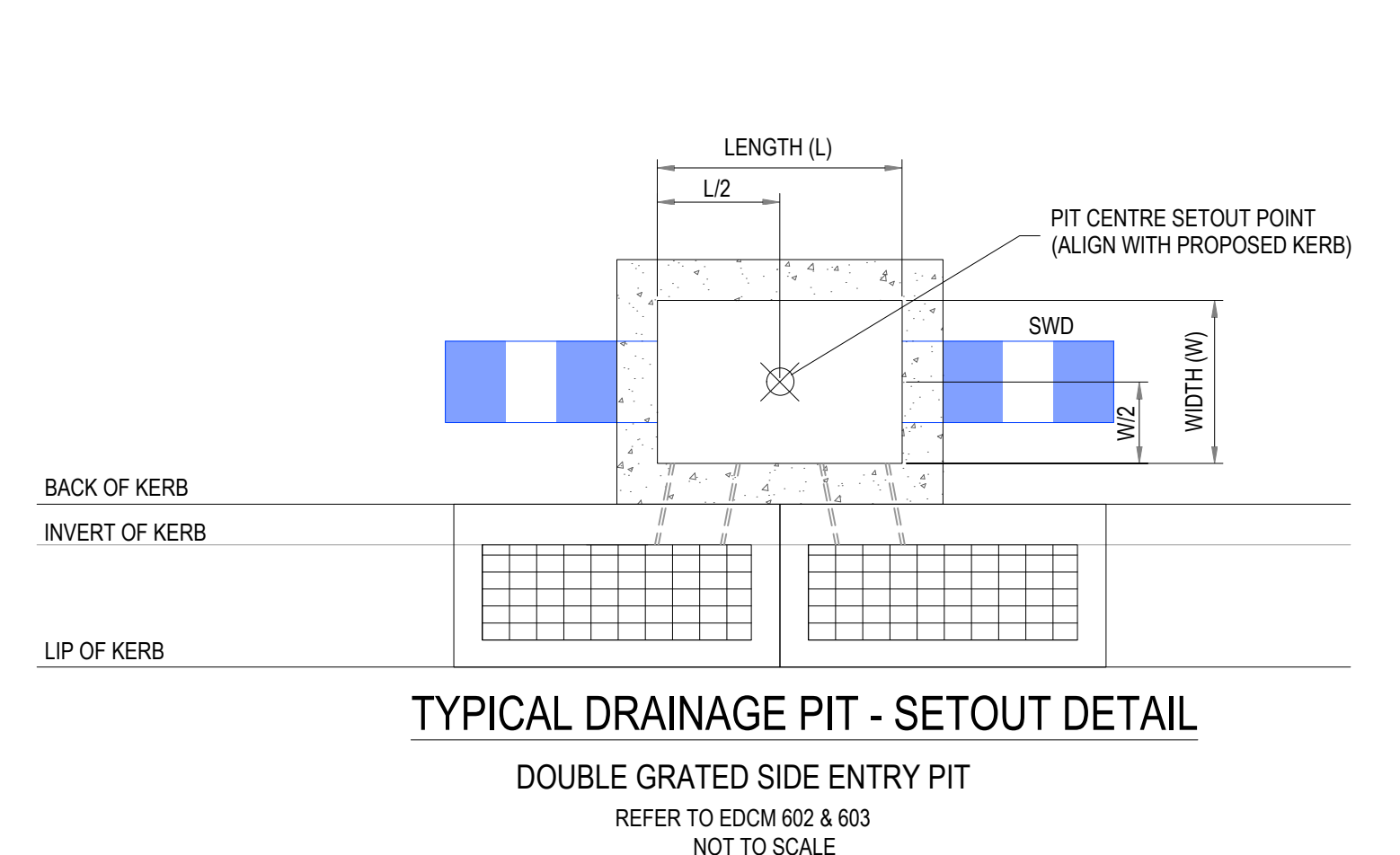
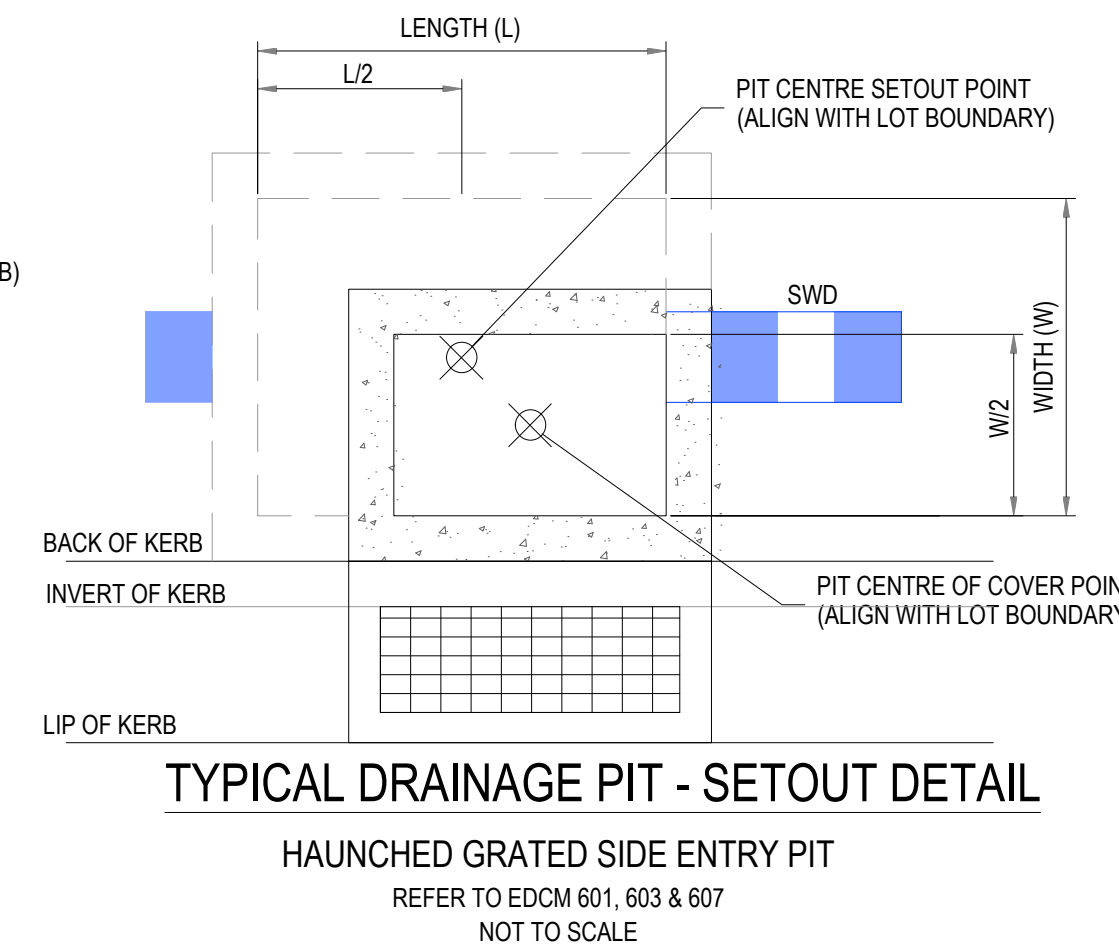
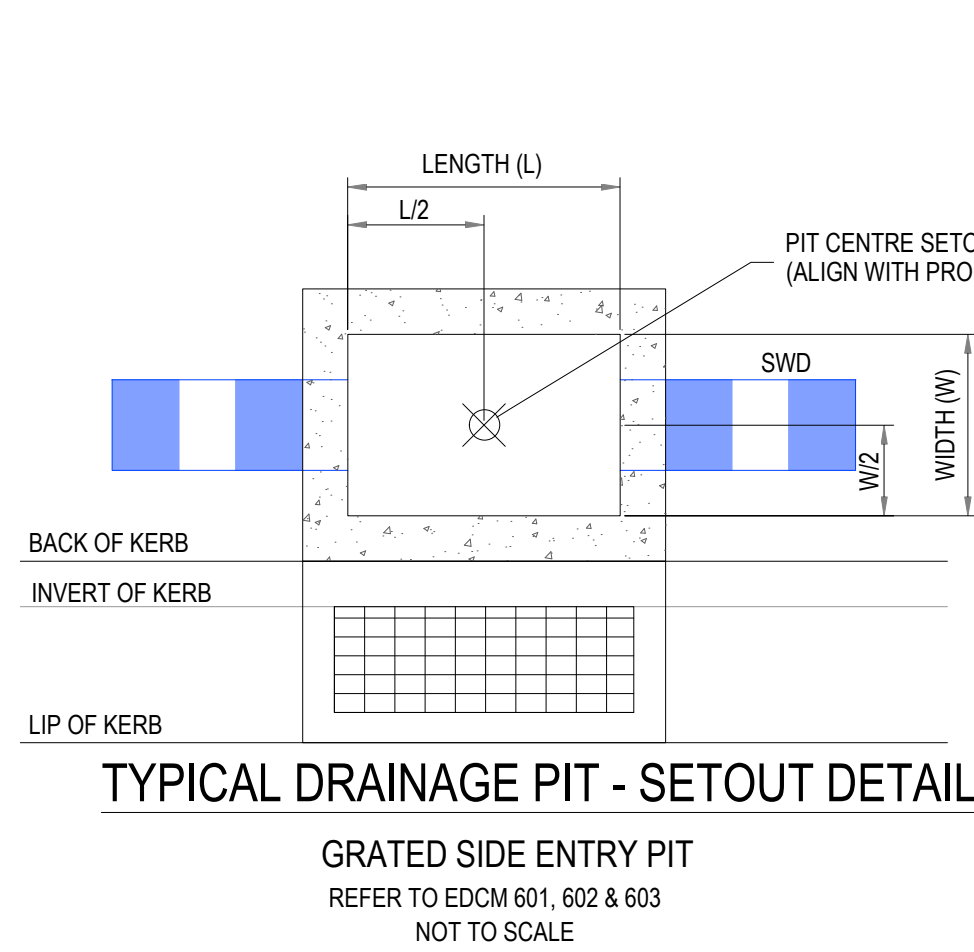
**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**



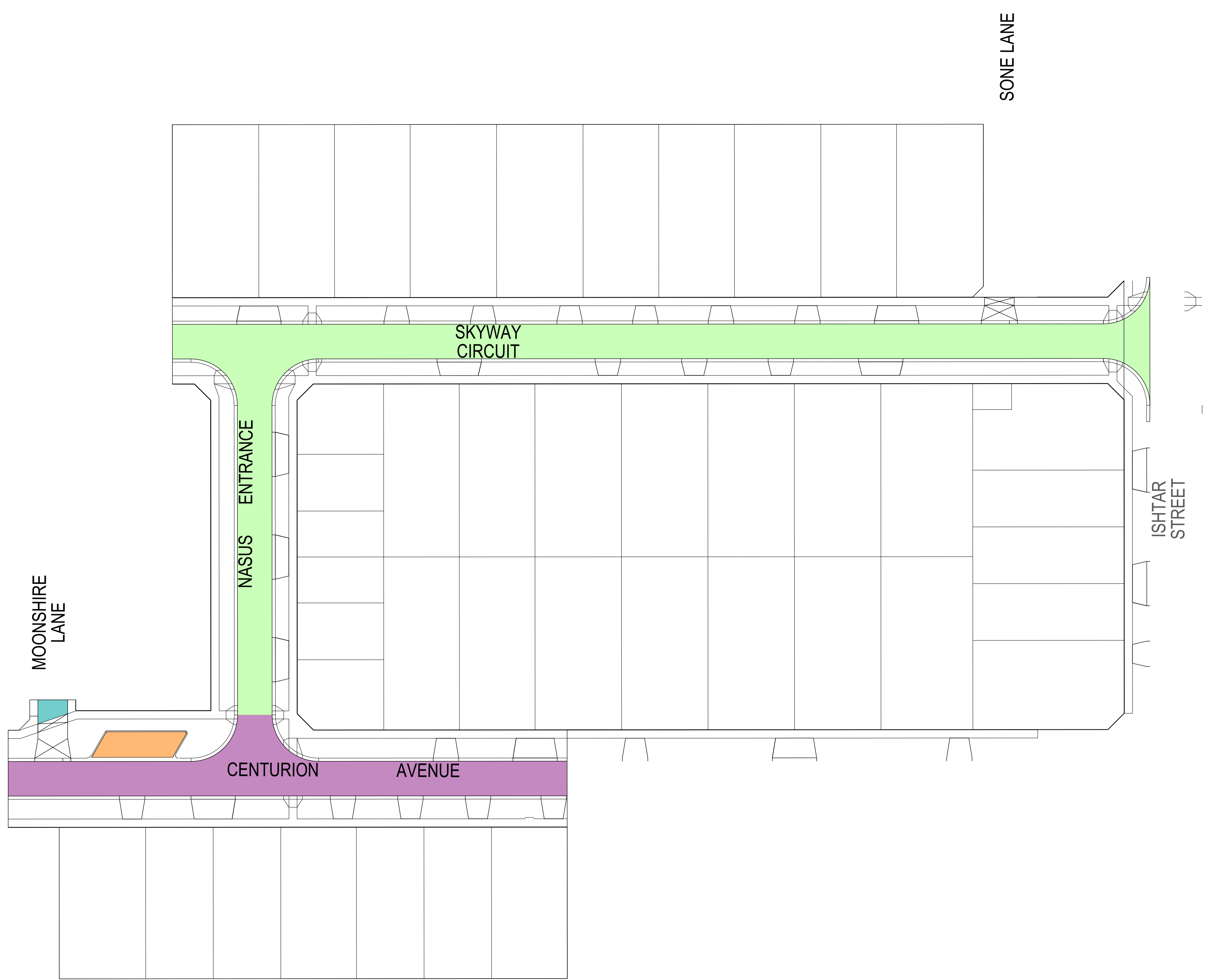
DESIGN FLOW (m3/s)	0.068	0.069
CAPACITY (l/s)	0.156	0.156
AT GRADE VELOCITY (m/s)	1.41	1.41
PIPE SIZE (mm)	3750	3750
GRADE	1 in 126	1 in 126
DATUM	37.0	
DEPTH TO INVERT	2.067 1.805	1.672 1.774
HYDRAULIC GRADE LINE	43.963 44.004	44.139 44.178
INVERT LEVEL	43.338 43.600	43.764 43.764
FINISHED SURFACE LEVELS	45.405	45.436 45.577
EXISTING SURFACE LEVEL	45.293	45.522 45.551
CHAINAGE (Reach Length)	0.000 (20.658)	20.658 (4.900)

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA (mm)	INVERT RL (mm)	DIA (mm)	INVERT RL (mm)				
1	JUNCTION PIT	1050	900	300	43.544			45.324	1.968	EDCM 607	CONSTRUCT OVER EXISTING DRAIN. HAUNCHED TO 600x900 COVER**. SUPPLY CLASS D COVER
2	JUNCTION PIT	600	900	300	44.477	300	43.577	45.587	2.01	EDCM 605	
3	JUNCTION PIT	600	900	300	44.74	300	44.69	45.83	1.14	EDCM 605	
4	JUNCTION PIT	600	900	225	45.223	300	45.148	46.218	1.07	EDCM 605	
5	JUNCTION PIT	600	900			225	45.683	46.654	0.971	EDCM 605	
Ex.323EP	ENDPIPE			300	43.76			45.494	1.734		CONNECT TO EXISTING ENDPIPE
6	GRADED SIDE ENTRY PIT	600	900	300	44.244	300	44.194	45.897	1.703	EDCM 601	
7	GRADED SIDE ENTRY PIT	600	900			300	44.583	46.107	1.524	EDCM 601	
Ex.394	ENDPIPE			675	43.56			45.467	1.907		CONNECT TO EXISTING ENDPIPE
8	JUNCTION PIT	1050	900	450	43.809	675	43.584	45.514	1.93	EDCM 607	HAUNCHED TO 600x900 COVER**.
9	GRADED SIDE ENTRY PIT	600	900	375	44.126	450	44.051	45.865	1.814	EDCM 601	
10	GRADED SIDE ENTRY PIT	750	900	375	44.357	375	44.307	46.115	1.808	EDCM 601 & 607	HAUNCHED TO 600x900 COVER.
11	GRADED SIDE ENTRY PIT	600	900	375	44.46	375	44.41	46.124	1.713	EDCM 601	
12	JUNCTION PIT	600	900	375	45.103	375	45.053	47.107	2.054	EDCM 605	
13	DOUBLE SIDE ENTRY PIT GRATED	600	900	375	45.232	375	45.182	47.073	1.89	EDCM 602	
14	GRADED SIDE ENTRY PIT	600	900	300	45.364	375	45.289	47.082	1.793	EDCM 601	
15EP	ENDPIPE					300	45.396	47.098	1.702		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTION
16	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	44.302	375	44.227	45.972	1.745	EDCM 602	
17	JUNCTION PIT	600	900	300	44.479	300	44.429	46.109	1.681	EDCM 605	
18	GRADED PIT	600	900	300	44.72	300	44.67	46.488	1.818	EDCM 605	SUPPLY CLASS D BIKE SAFE GALVANISED GRATING COVER
19EP	ENDPIPE					300	44.777	46.521	1.744		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTION
20EP	ENDPIPE					225	44.687	46.33	1.644		ENDPIPE TO BE SEALED AND CAPPED FOR FUTURE CONNECTION
21	JUNCTION PIT	600	900	300	44.916	300	44.866	47.096	2.229	EDCM 605	
22	GRADED SIDE ENTRY PIT	600	900	300	45.057	300	45.007	46.982	1.975	EDCM 601	
23	GRADED SIDE ENTRY PIT	600	900	300	45.24	300	45.19	46.856	1.665	EDCM 601	
24	GRADED SIDE ENTRY PIT	600	900	300	45.325	300	45.325	46.856	1.53	EDCM 601	
Ex.138	JUNCTION PIT	600	900	600	43.32			45.373	2.103		CONNECT TO EXISTING PIT
25	JUNCTION PIT	900	900	525	43.338	600	43.338	45.405	2.067	EDCM 607	CONSTRUCT OVER EXISTING DRAIN AND HAUNCH TO 600x900 COVER.
26	GRADED SIDE ENTRY PIT	600	900	525	43.518	525	43.468	45.737	2.269	EDCM 601	
27	GRADED SIDE ENTRY PIT	750	900	525	43.692	525	43.642	45.75	2.109	EDCM 601 & 607	HAUNCHED TO 600x900 COVER.
28	JUNCTION PIT	750	900	450	43.919	525	43.844	45.86	2.016	EDCM 607	HAUNCHED TO 600x900 COVER.
29	GRADED PIT	600	900	450	44.065	450	44.015	46.066	2.051	EDCM 605	CONSTRUCT PIT 100mm BELOW FUTURE DESIGN LEVEL AND SUPPLY TEMPORARY COVER.
30	GRADED PIT	600	900	300	44.846	450	44.396	46.219	1.823	EDCM 605	CONSTRUCT PIT 100mm BELOW FUTURE DESIGN LEVEL AND SUPPLY TEMPORARY COVER.
31	JUNCTION PIT	600	900	225	45.742	300	45.667	47.127	1.46	EDCM 605	PROVIDE 450Ø BLOCKOUT NORTH AT IL44.446 FOR FUTURE CONNECTION.
32	JUNCTION PIT	600	900			225	46.692	47.715	1.023	EDCM 605	PROVIDE 225Ø BLOCKOUT WEST AT IL46.742 FOR FUTURE CONNECTION.
33	GRADED SIDE ENTRY PIT	600	900	225	44.644	300	44.569	46.306	1.737	EDCM 601	
34	JUNCTION PIT	600	900			225	45.035	46.658	1.623	EDCM 605	
35	GRADED SIDE ENTRY PIT	600	900			300	44.704	46.306	1.602	EDCM 601	
139A	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	43.85	375	43.803	45.577	1.774	EDCM 602	CONSTRUCT OVER EXISTING DRAIN

- ** - DENOTES PIT IS HAUNCHED TOWARDS ROAD CENTRELINE (UNDER ROAD PAVEMENT/KERB)
- ALL PIT COVERS TO BE PROVIDED IN ACCORDANCE WITH EDCM 605 - PIT COVER SCHEDULE.
- PITS WITHIN ROAD RESERVES ARE TO BE BACKFILLED AND COMPACTED WITH CLASS 3 FCR IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS AND REQUIREMENTS.



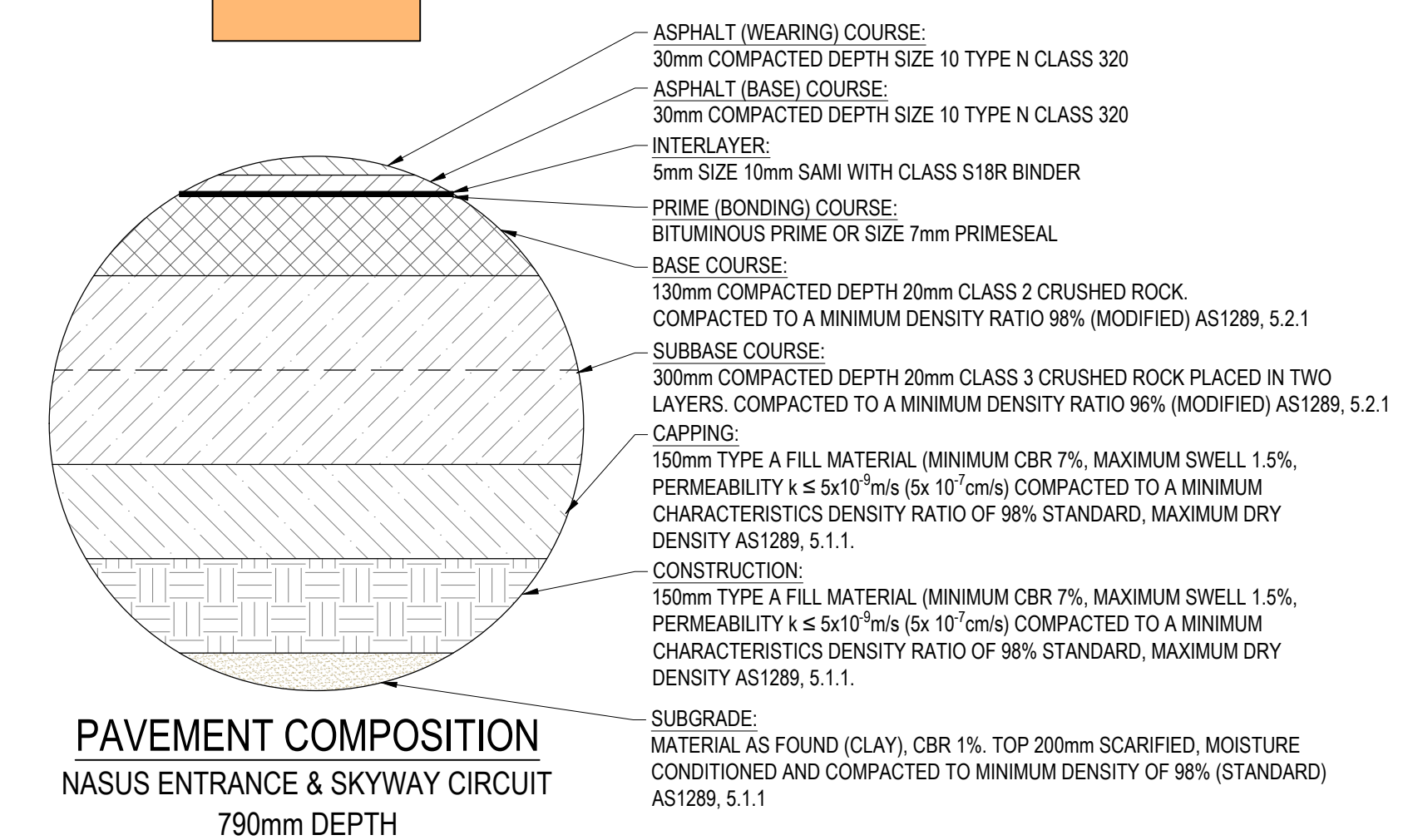
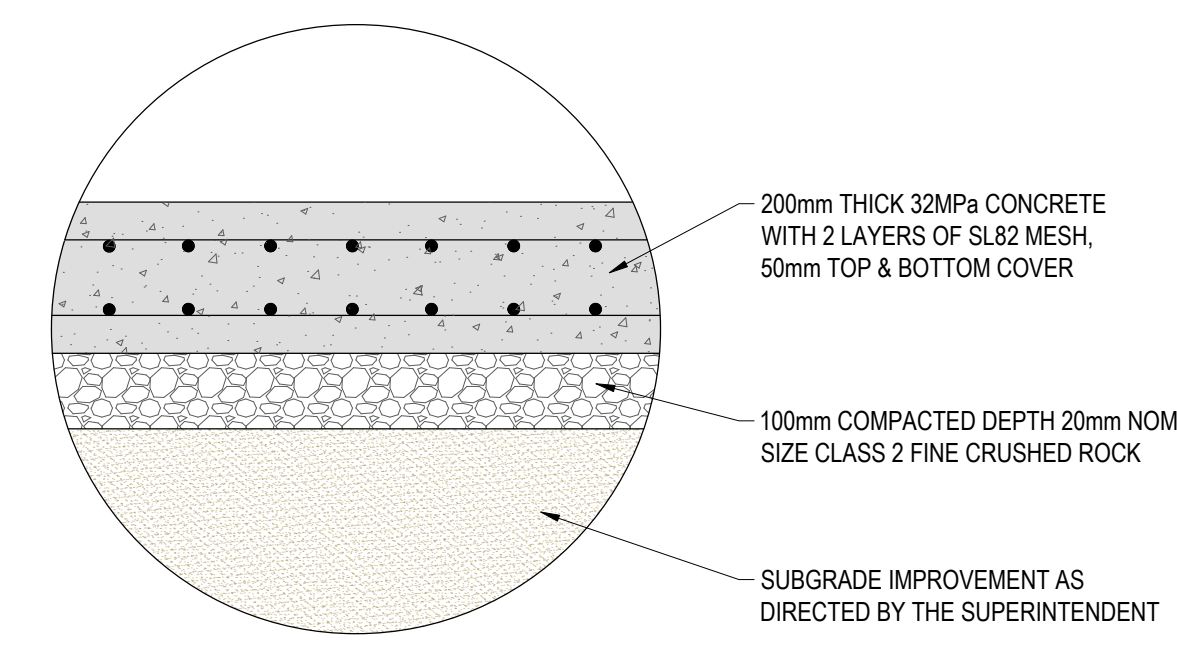
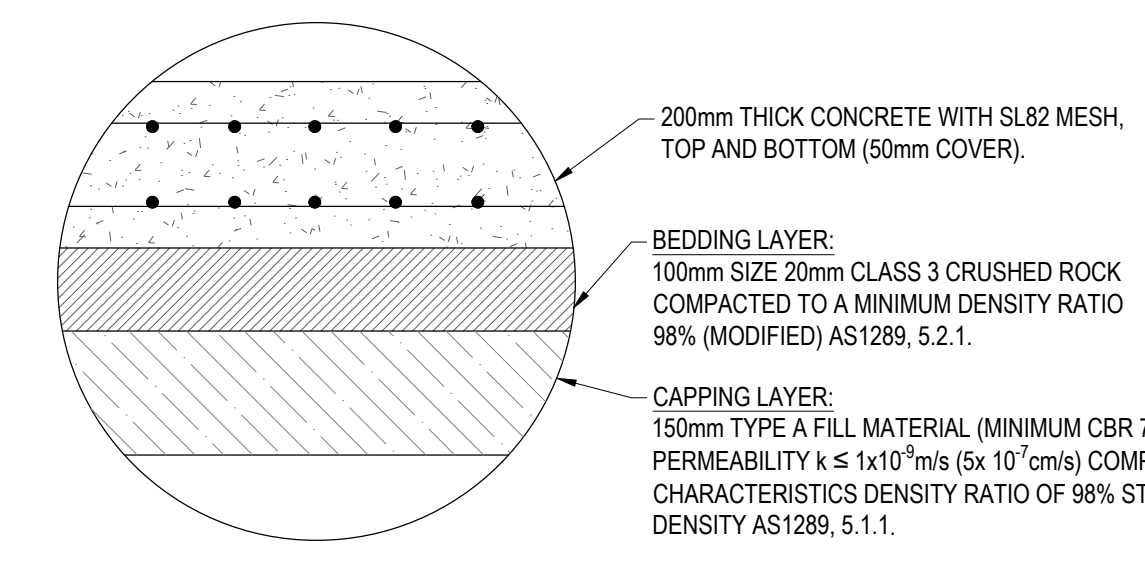
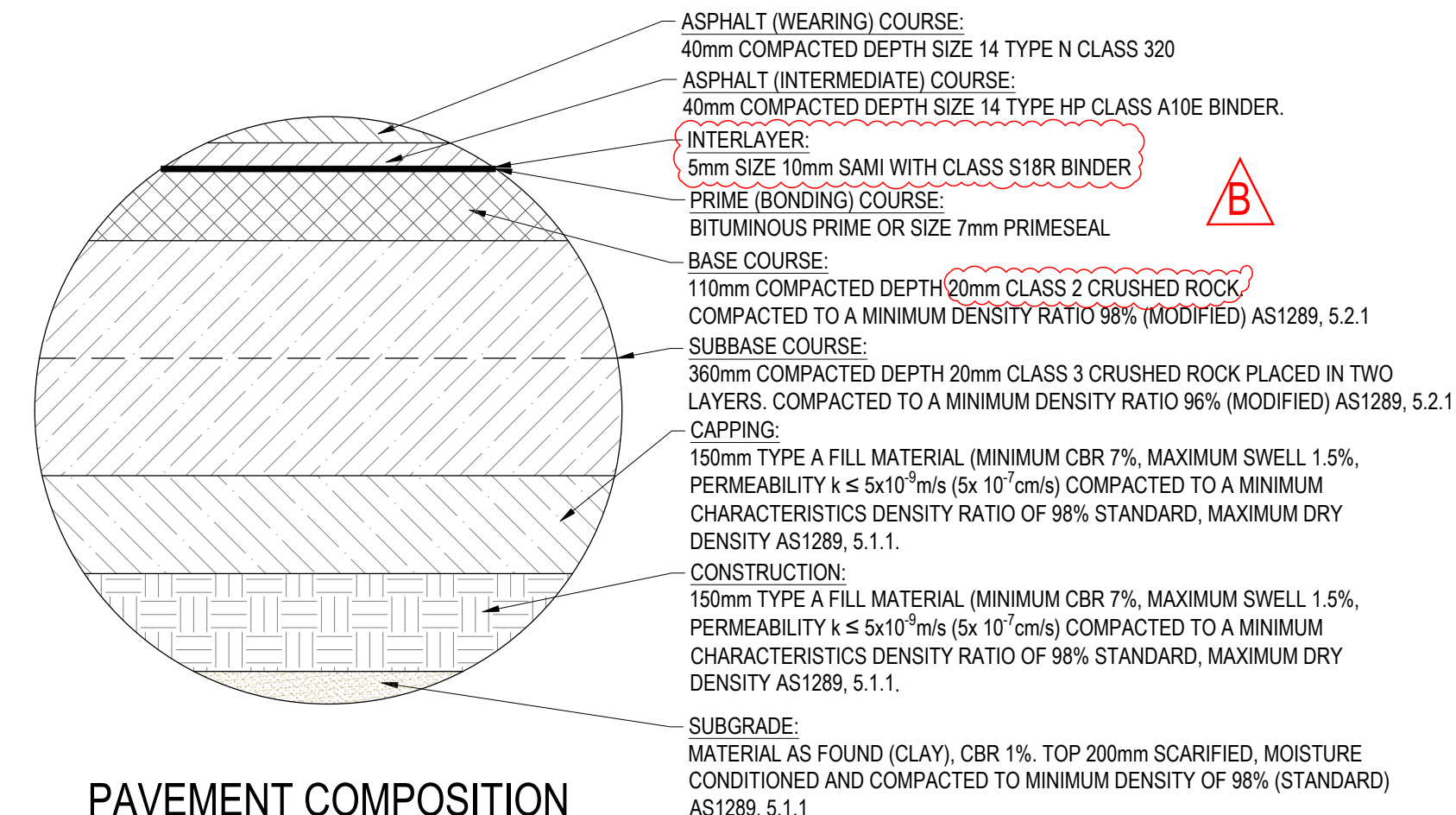
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	DESIGNED	PROJECT ENGINEER	
B	14/08/25	PIT SCHEDULE UPDATED	M.P	A.W	M.T	 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Newtown, VIC, Australia 3220	 ALAMORA - STAGE 32 DRAINAGE LONG SECTIONS & PIT SCHEDULE	ISSUED FOR APPROVAL NOT FOR CONSTRUCTION SCALE @ A1: 1:500 (H) 1:50 (V)	M.PLANT	A.WALE	
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T					M.PLANT	M.TROUNCE	
										PROJECT No.	DRAWING No.	REVISION
										200282.32	R603	B



PAVEMENT DESIGNS
 ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN TAYLOR. CREO IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE UPON REQUEST.

WARNING
BWARE OF UNDERGROUND & OVERHEAD SERVICES
 The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

NOTE
 PAVEMENT LAYERS ARE TO BE CONSTRUCTED AND COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS AND REQUIREMENTS.



Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	SAMI LAYER ADDED & CTCR REMOVED FOR CENTURION - COUNCIL COMMENTS	M.P.	A.W.	M.T.
A	23/07/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.

CLIENT

Communities Designed for Living

creo CIVIL

Suite 1, 2 Bloomsbury Street
 Newtown, VIC, Australia 3220

PROJECT

DRAWING TITLE

ALAMORA - STAGE 32
PAVEMENT PLAN

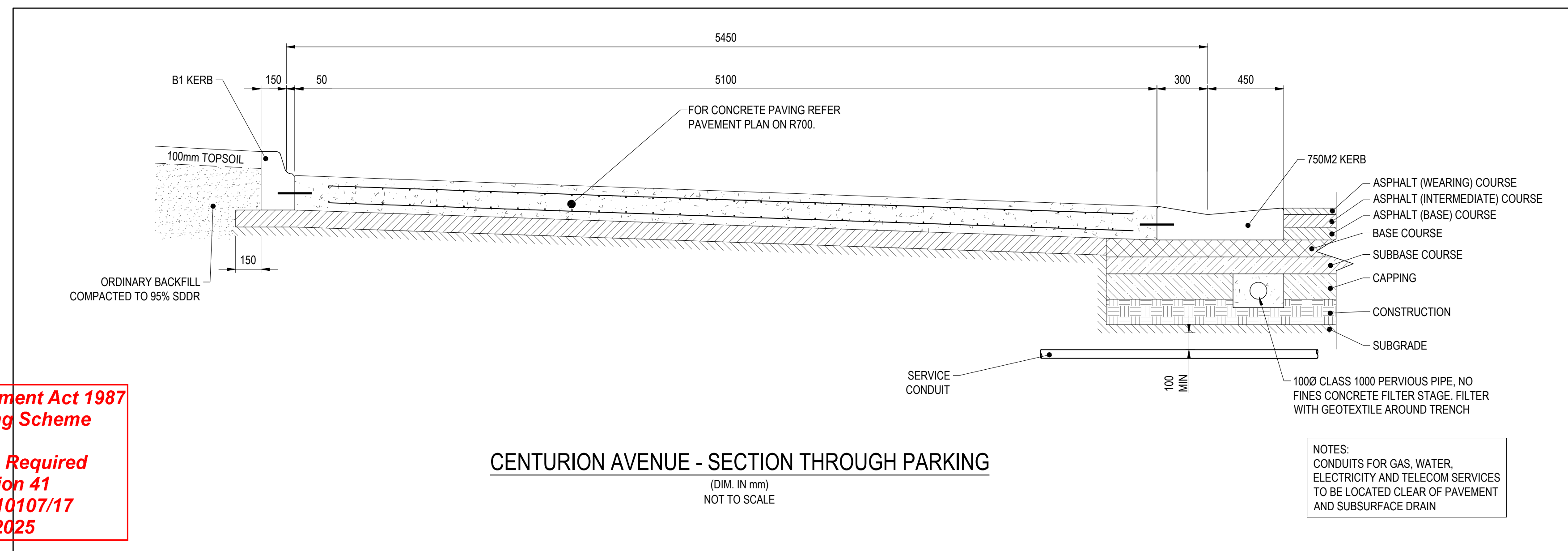
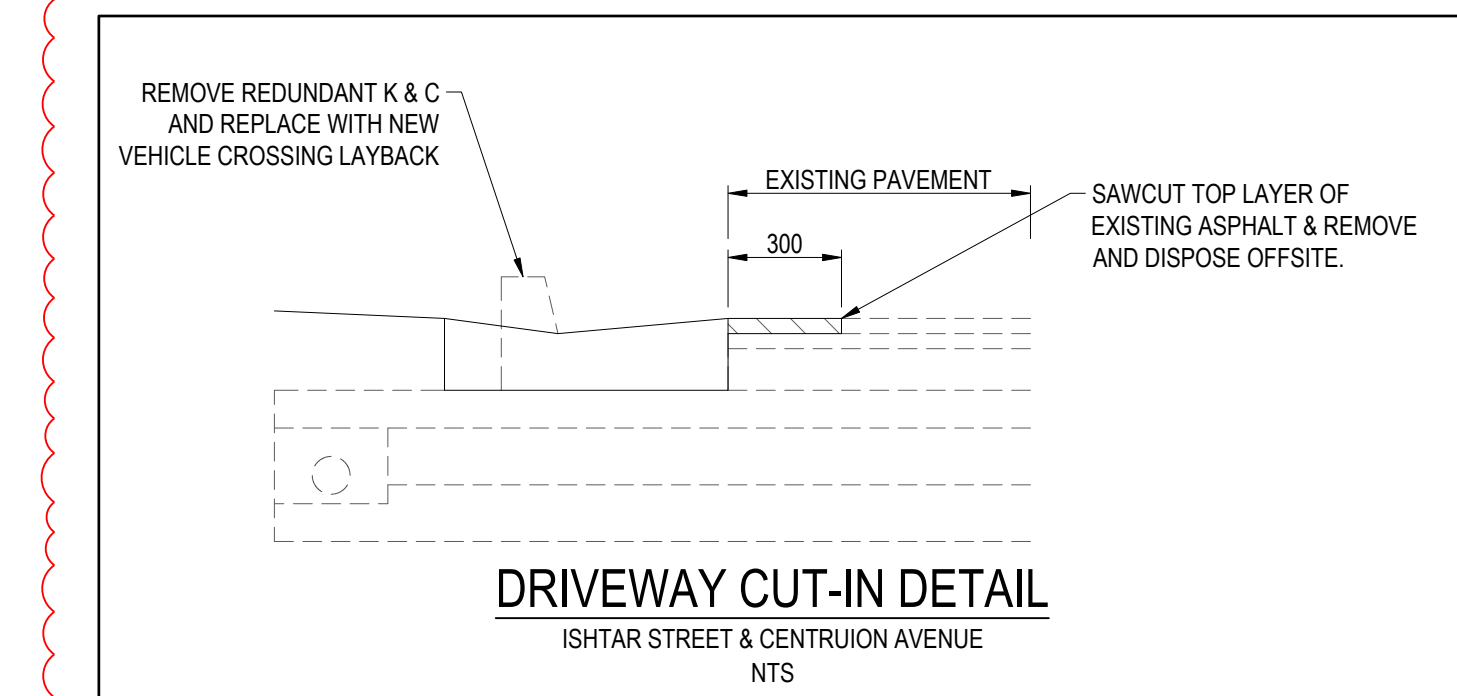
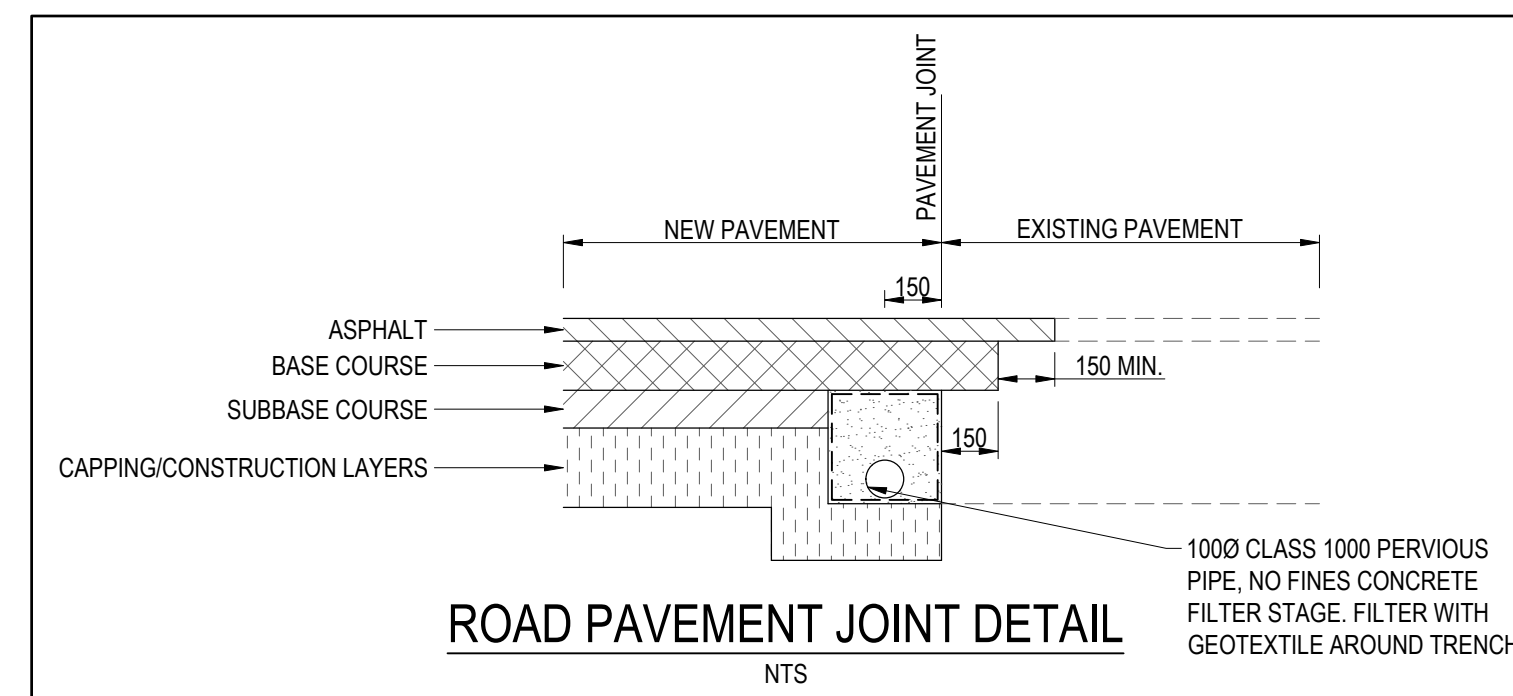
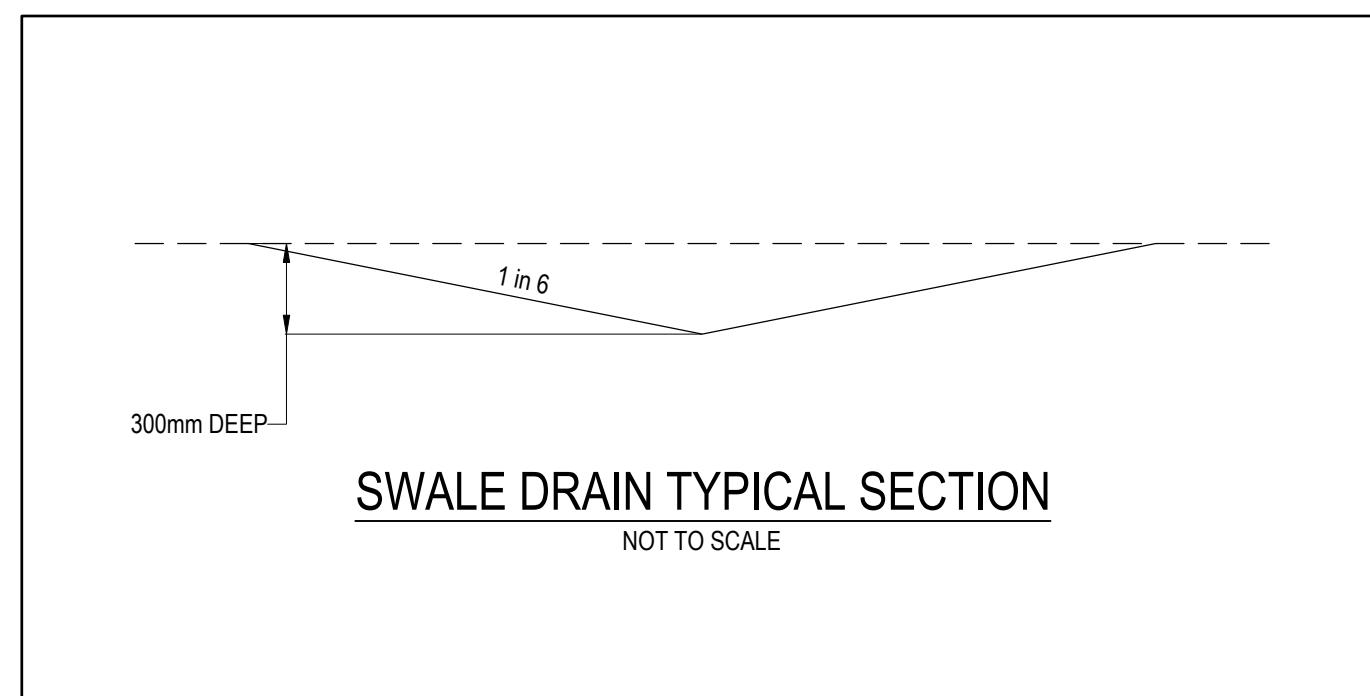
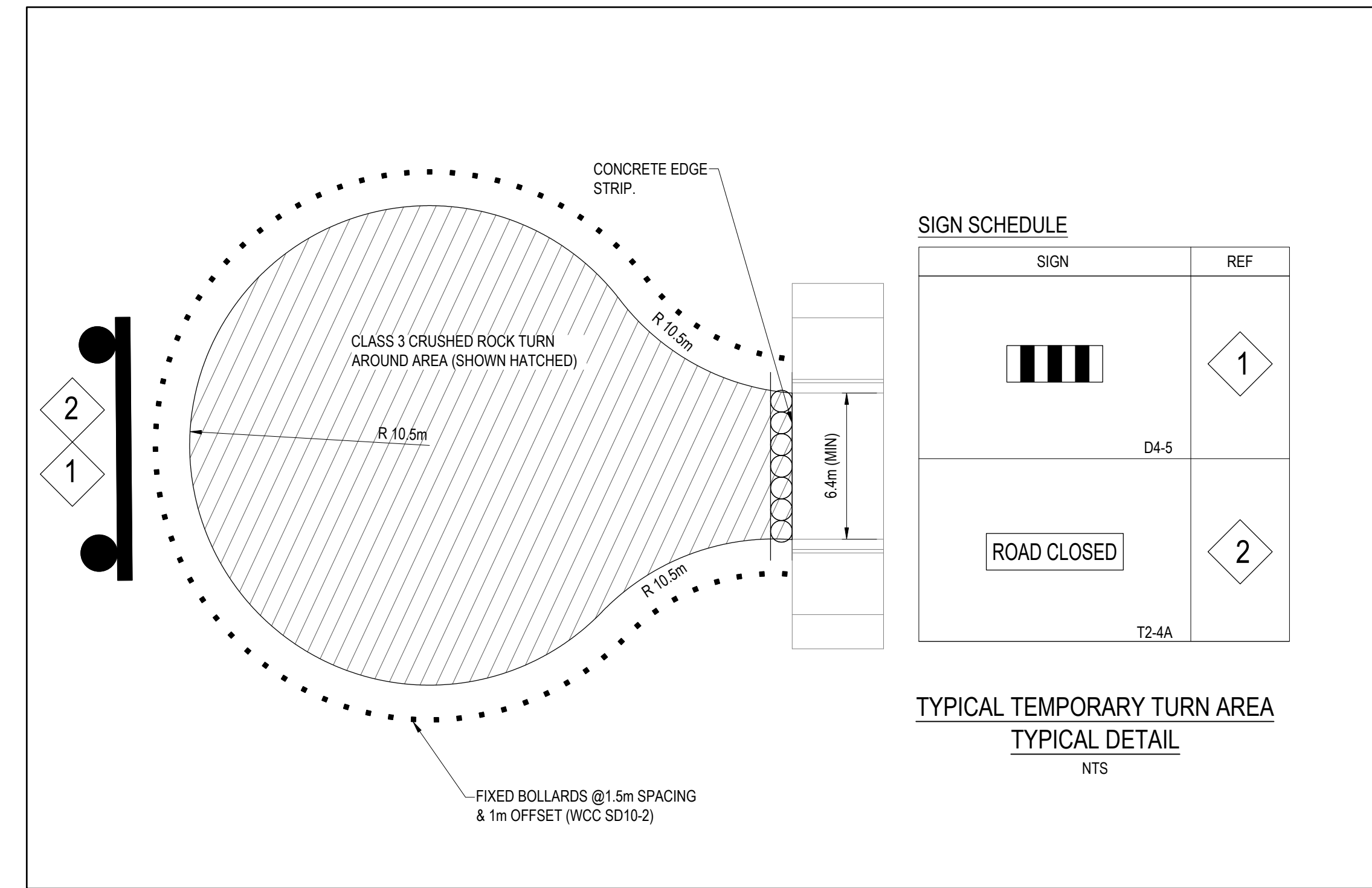
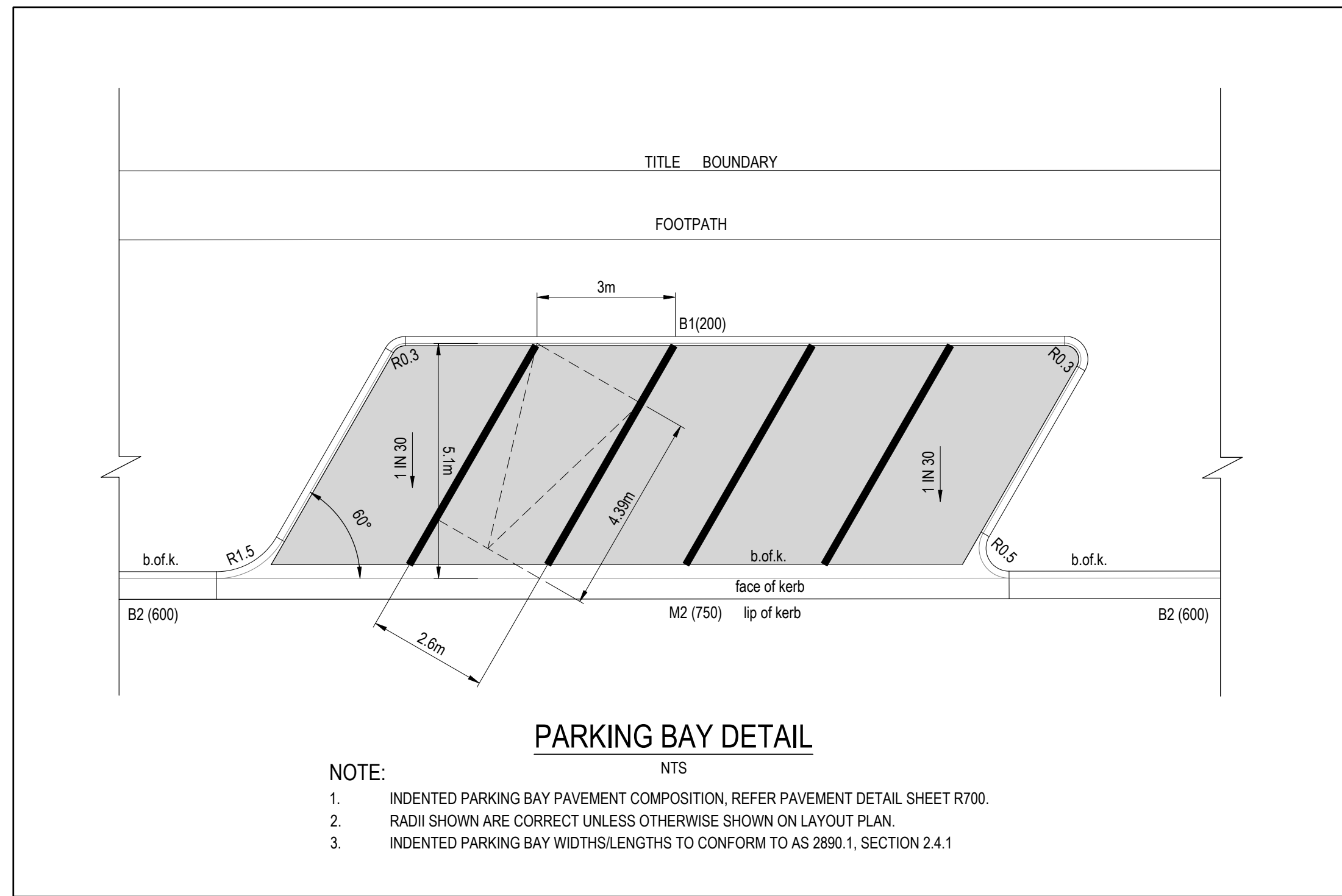
STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	R700	B

E:\2025\WYNDHAM\STAGE 32\ALAMORA\PAVEMENT\CREO\20250822_2025_11\TYPICAL DETAILS.DWG



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025

NOTE
PAVEMENT LAYERS ARE TO BE CONSTRUCTED AND COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL SPECIFICATIONS AND REQUIREMENTS.

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

E:\2025\ENERGY\ITEM\2025\ENERGY\2025\ENERGY\SERVERS\SERVERS\CAD\2025\2025_22_0100 - TYPICAL DETAILS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

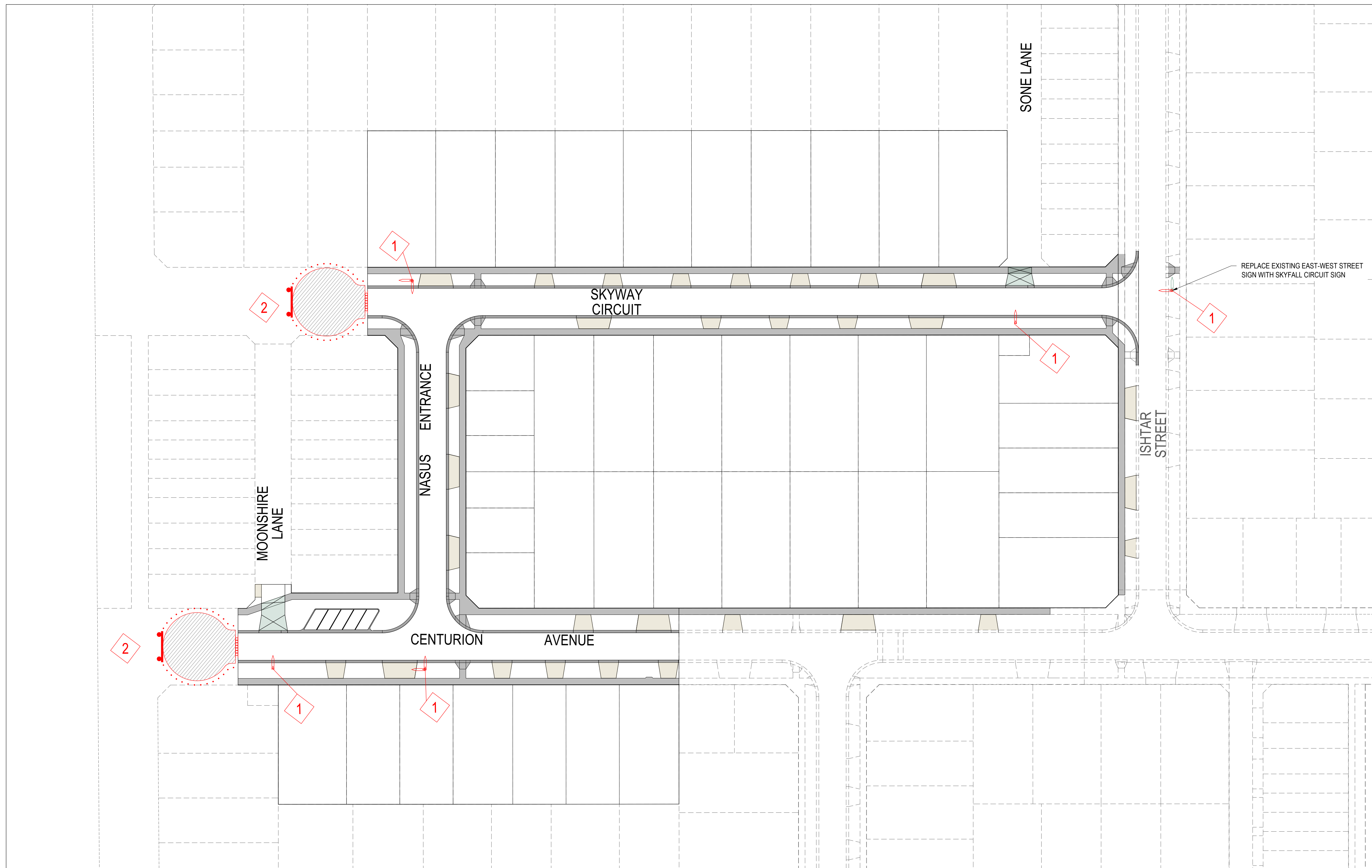
ALAMORA - STAGE 32
TYPICAL DETAILS

STATUS




ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:
AS SHOWN

DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	R701
REVISION			A



SIGN SCHEDULE

SIGN	REF	QUANTITY
	1	REFER TABLE
STREET SIGN		
	T2-4A	
	D4-5	2No.

STREET SIGN SCHEDULE

SKYWAY CIRCUIT	2No.
NASUS ENTRANCE	2No.
CENTURION AV.	1No.
MOONSHIRE LANE	1No.
SONE LANE	1No.

**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**

LINEMARKING & SIGNAGE NOTES:

- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
- LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.
- HIGH FRICTION SURFACE TREATMENT COLOURED EMERALD GREEN MUST BE PROVIDED WITHIN THE BICYCLE LANES MARKED AS GREEN ON THE PLAN. INSTALLATION MUST COMPLY WITH VICROADS STANDARD SECTION 430 FOR HIGH FRICTION SURFACE TREATMENTS TO MANUFACTURER'S SPECIFICATIONS.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	DRIVEWAY CUT-IN DETAIL ADDED	M.P	A.W	M.T
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

villawood
properties
Communities Designed for Living

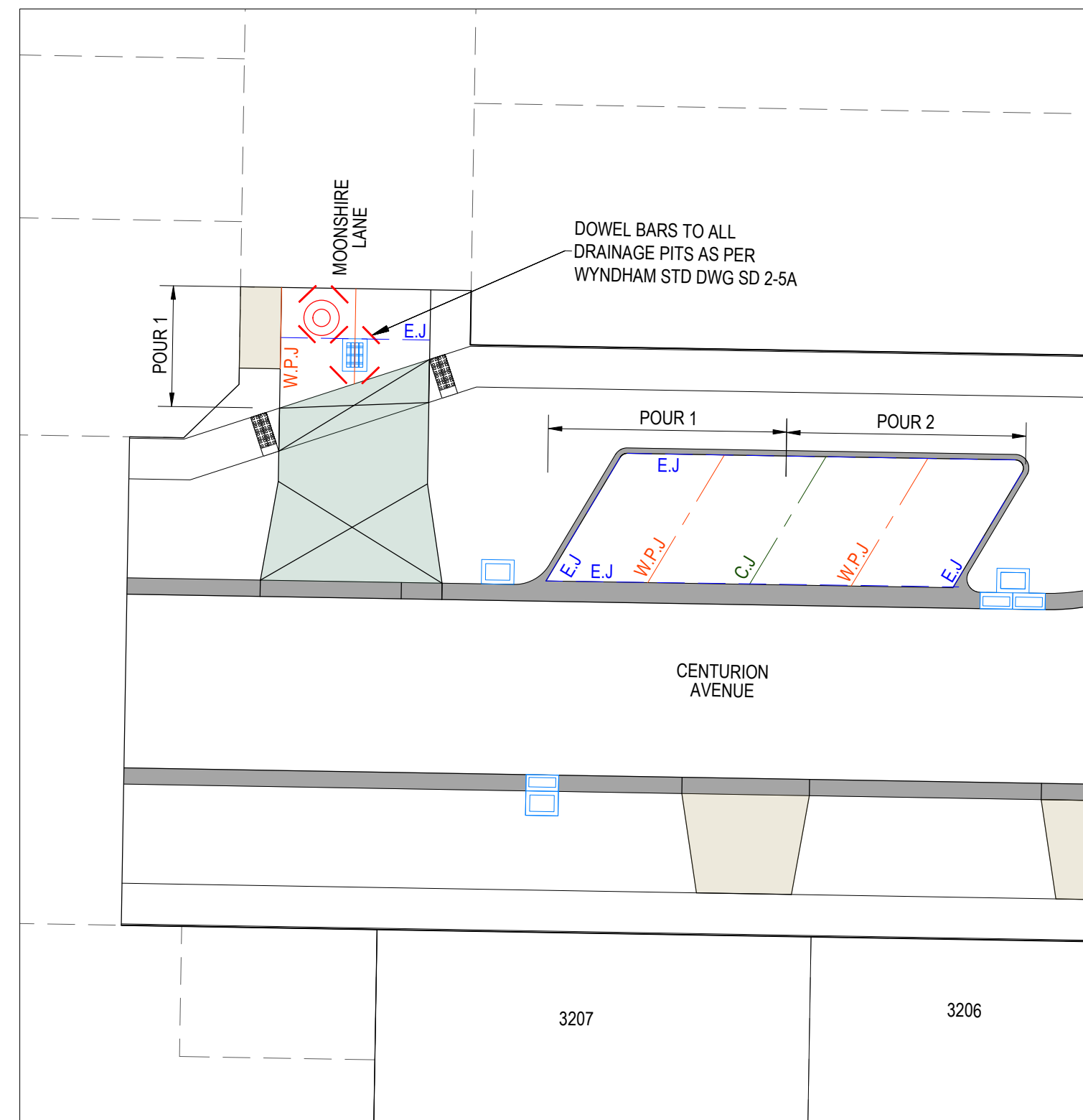
creo
CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

ALAMORA
Tarnait

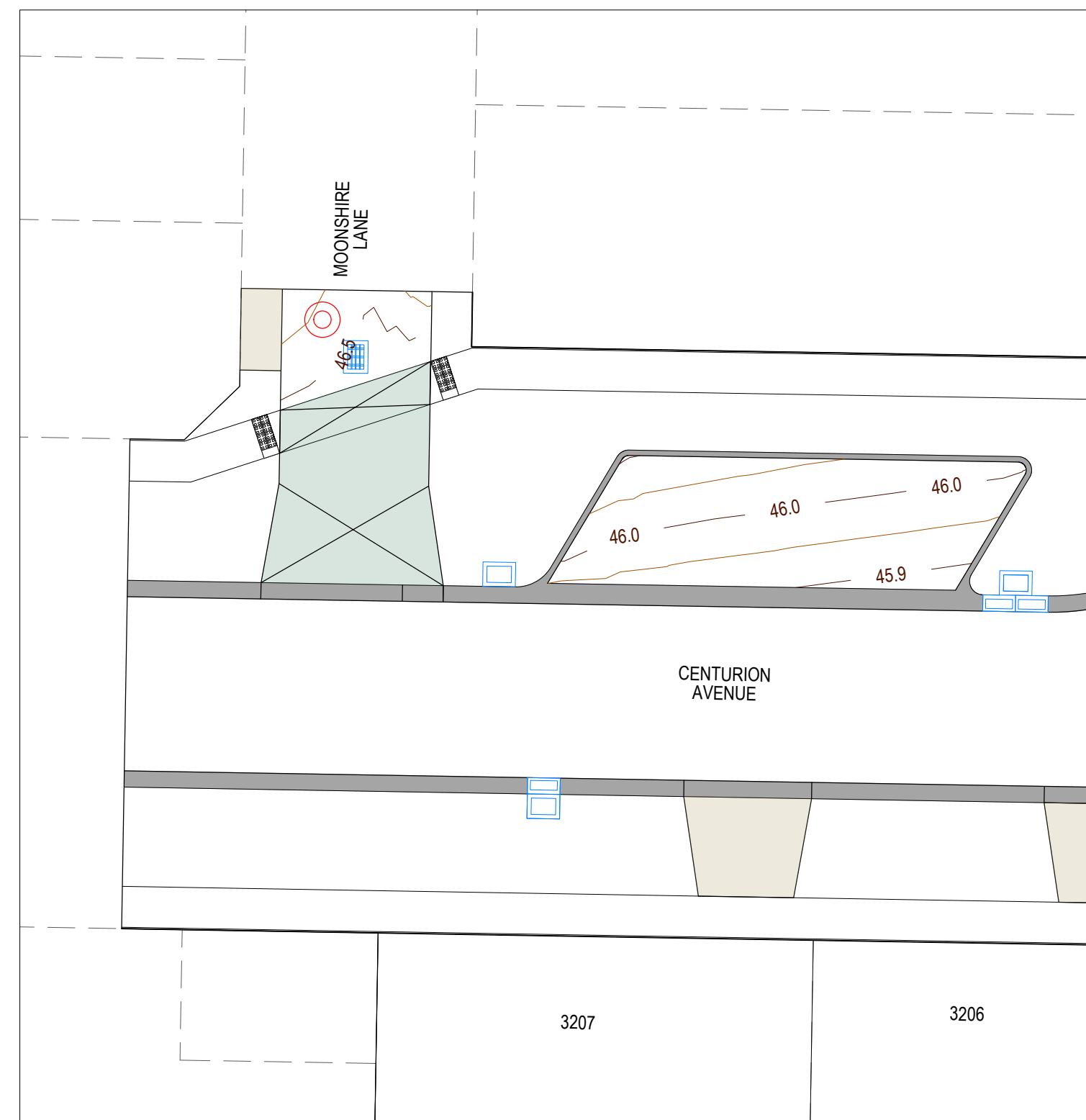
**ALAMORA - STAGE 32
SIGNAGE & LINEMARKING PLAN**

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**
SCALE @ A1 : 1:500
0 5 10 20 30

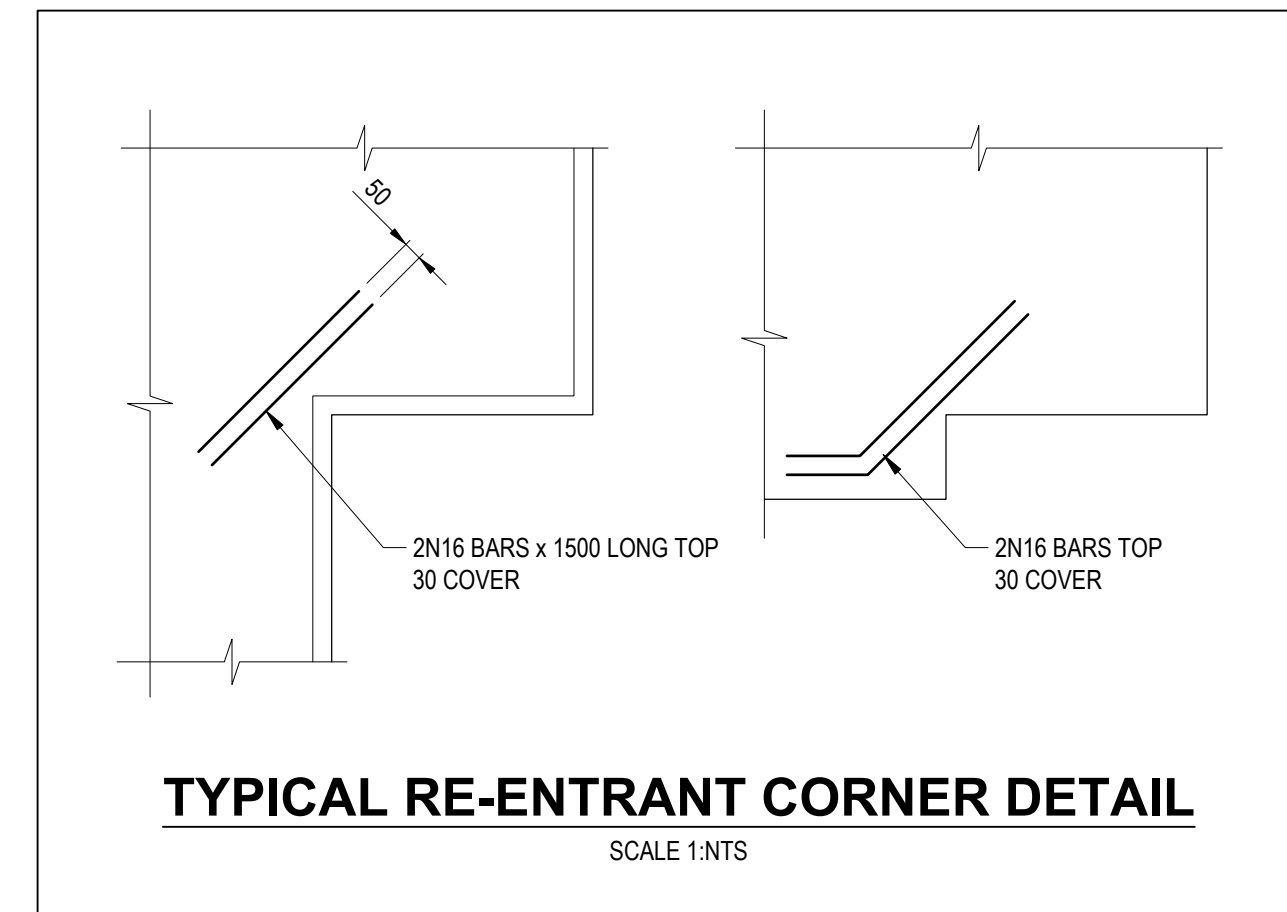
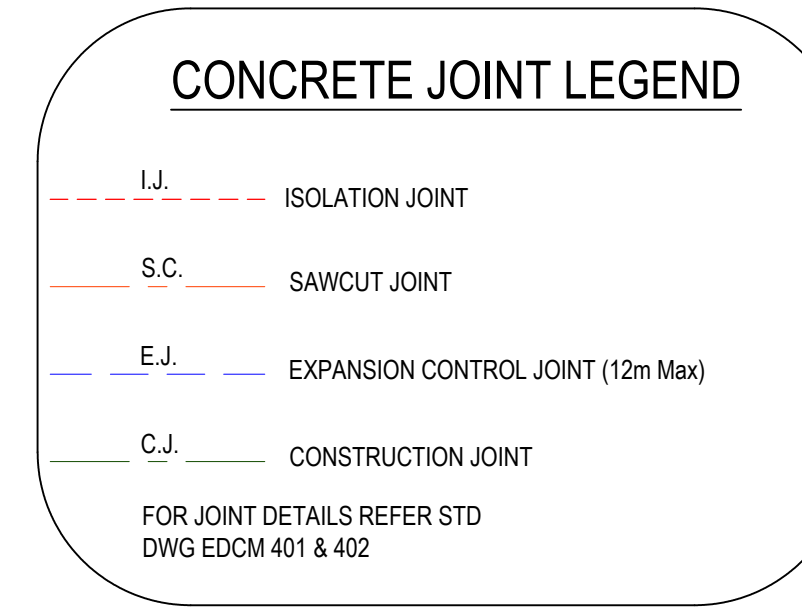
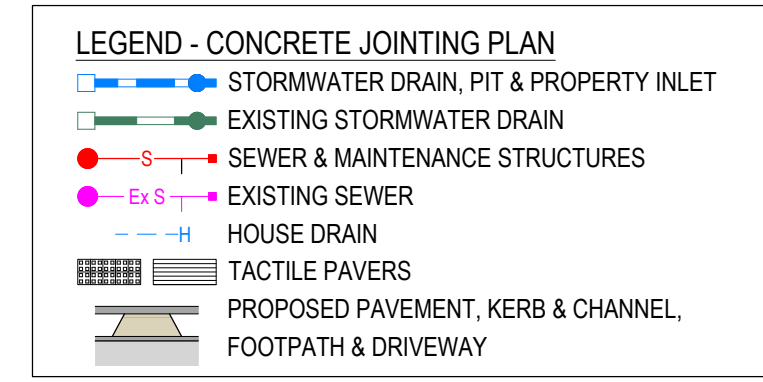
DESIGNED M.PLANT	PROJECT ENGINEER A.WALE
DRAWN M.PLANT	PROJECT MANAGER M.TROUNCE
PROJECT No. 200282.32	DRAWING No. R800
	REVISION A



CONCRETE JOINTING LAYOUT PLAN
SCALE 1:200 @ A1



CONCRETE CONTOUR LAYOUT PLAN
SCALE 1:200 @ A1



**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 41
Permit No WYP10107/17
Date 20/11/2025**

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	14/08/25	SHEET ADDED - COUNCIL COMMENTS	M.P.	A.W.	M.T.

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

DRAWING TITLE

**ALAMORA - STAGE 32
CONCRETE JOINTING PLAN**

STATUS

**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:100

DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	R900
		REVISION	B

Project:	ALAMORA - Stage 32 - 34
Job No.:	200282.32
Council:	WYNDHAM
Region:	SOUTH WEST / WEST REGION
Design Standard:	GAA

Residential high: High densities. (Allotment size <450m2)
 Road Zone Category 2: Secondary and local roads.
 Public Park and Recreation Zone: Main zone for public open space, incl. golf courses.



Prepared by: M. Plant

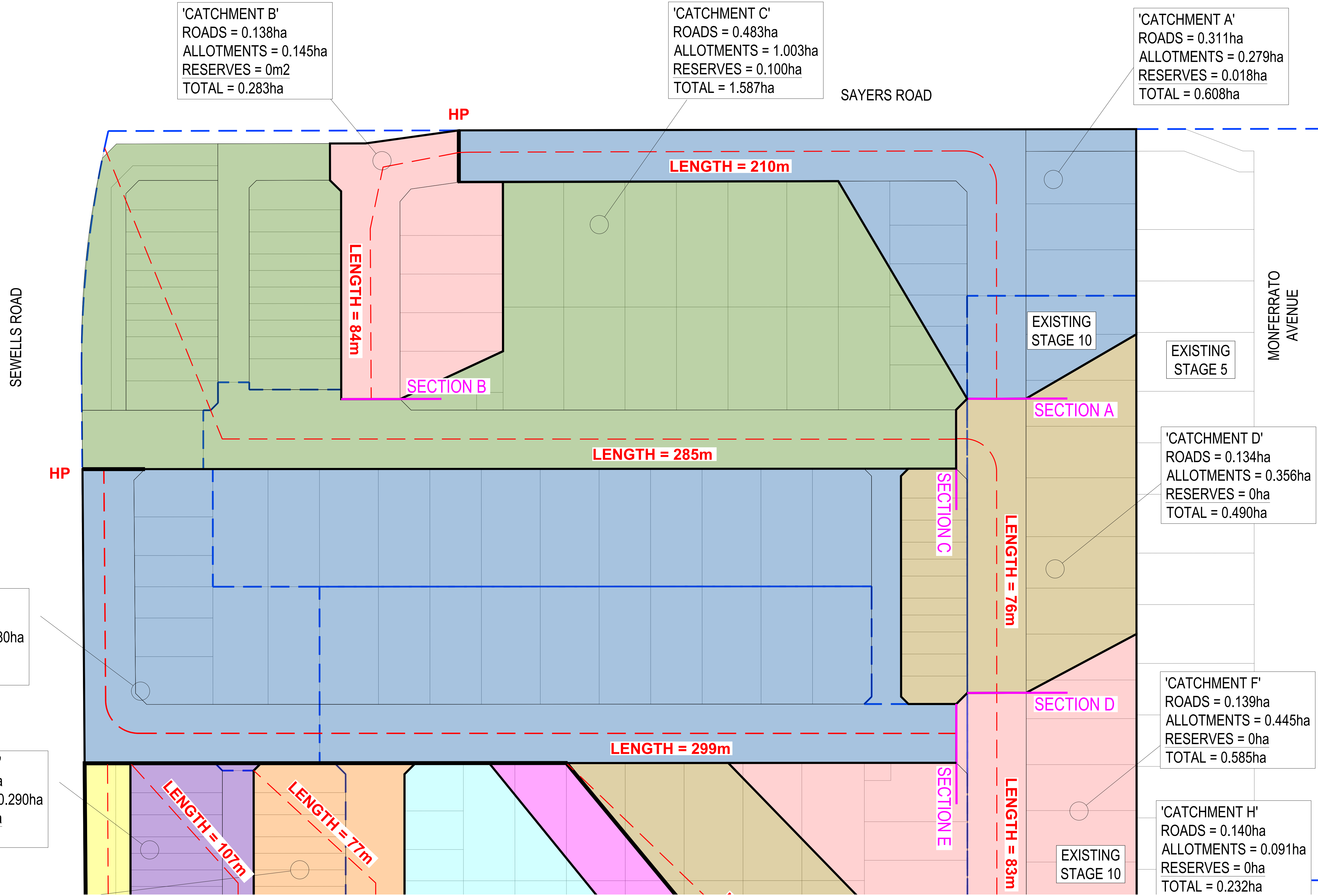
Date: 23/07/25

Revision: A

LAND USE	Residential high	Road Zone Category 2	Public Park and Recreation Zone
FREQUENCY FACTOR \ FRACTION IMPERVIOUS	0.80	0.60	0.25
C5	0.713	0.572	0.324
C10	0.751	0.602	0.341
C100	0.901	0.722	0.409

CATCHMENT AREAS	ha	ha	ha	Sub Area
A	0.279	0.311	0.018	0.608
B	0.145	0.138		0.283
C	1.003	0.483	0.100	1.587
D	0.356	0.134		0.490
E	1.280	0.522		1.802
F	0.445	0.139		0.585
G	0.311	0.096		0.406
H	0.091	0.140		0.232
TOTAL	3.911	1.963	0.118	5.992
A1	0.209	0.153		0.362
B1	0.136	0.106		0.241
C1	0.576	0.169		0.745
D1	0.250	0.137		0.387
E1	0.488	0.373	0.078	0.939
TOTAL	1.659	0.938	0.078	2.675

NODE	DESCRIPTION	CONTRIBUTING CATCHMENTS	Residential high	Road Zone Category 2	Public Park and Recreation Zone	Total Area	CATCHMENT ONAL ME		TIME OF CONCENTRATION			5 YEAR FLOW			100 YEAR FLOW			PIPE ARI	GAP FLOW	
							Length	Velocity	Critical Catchment	Calculated Tc	Adopted tc	A ₀	I	Q	A ₀	I	Q			EXCESS Q100 - QPIPE
A	SECTION A	A	0.28	0.31	0.02	0.61	210	0.98	A	8.6	8.6	0.38	66.4	0.07	0.48	138.9	0.19	5 YEAR FLOW	0.116	
B	SECTION B	B	0.14	0.14		0.28	81	0.57	B	7.4	7.4	0.18	70.9	0.04	0.23	147.8	0.09	5 YEAR FLOW	0.059	
C	SECTION C	B C	1.15	0.62	0.10	1.87	285	0.78	C	11.1	11.1	1.21	58.8	0.20	1.52	123.5	0.52	5 YEAR FLOW	0.326	
D	SECTION D	A B C D	1.78	1.07	0.12	2.97	76	0.88	C	12.5	12.5	1.92	55.3	0.29	2.42	116.3	0.78	5 YEAR FLOW	0.489	
E	SECTION E	E	1.28	0.52		1.80	299	0.93	E	10.4	10.4	1.21	60.8	0.20	1.53	127.6	0.54	5 YEAR FLOW	0.338	
F	SECTION F	A B C D E F	3.51	1.73	0.12	5.35	83	1.04	D	13.9	13.9	3.53	52.4	0.51	4.46	110.4	1.37	5 YEAR FLOW	0.853	
G	SECTION G	G	0.31	0.10		0.41	135	0.56	G	9.0	9.0	0.28	64.9	0.05	0.35	135.8	0.13	5 YEAR FLOW	0.082	
H	SECTION H	A B C D E F G H	3.91	1.96	0.12	5.99	72	0.94	F	15.1	15.1	3.95	50.0	0.55	4.99	105.3	1.46	5 YEAR FLOW	0.911	
A1	SECTION A1	A1	0.21	0.15		0.36	107	0.56	A1	3.2	3.2	0.24	94.9	0.06	0.30	192.4	0.16	5 YEAR FLOW	0.097	
B1	SECTION B1	B1	0.14	0.11		0.24	77	0.88	B1	1.5	1.5	0.16	115.8	0.05	0.20	234.2	0.13	5 YEAR FLOW	0.079	
C1	SECTION C1	A1 B1 C1	0.92	0.43		1.35	94	0.77	A1	5.2	5.2	0.90	81.2	0.20	1.14	167.3	0.53	5 YEAR FLOW	0.326	
D1	SECTION D1	A1 B1 C1 D1	1.17	0.56		1.74	77	0.94	C1	6.6	6.6	1.16	74.3	0.24	1.46	154.3	0.63	5 YEAR FLOW	0.388	
E1	SECTION E1	E1	0.49	0.37	0.08	0.94	301	0.64	E1	7.8	7.8	0.59	69.1	0.11	0.74	144.1	0.30	5 YEAR FLOW	0.184	



FOR CONTINUATION REFER C101

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.
A	29/05/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.

villawood
properties
Communities Designed for Living

creo
CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

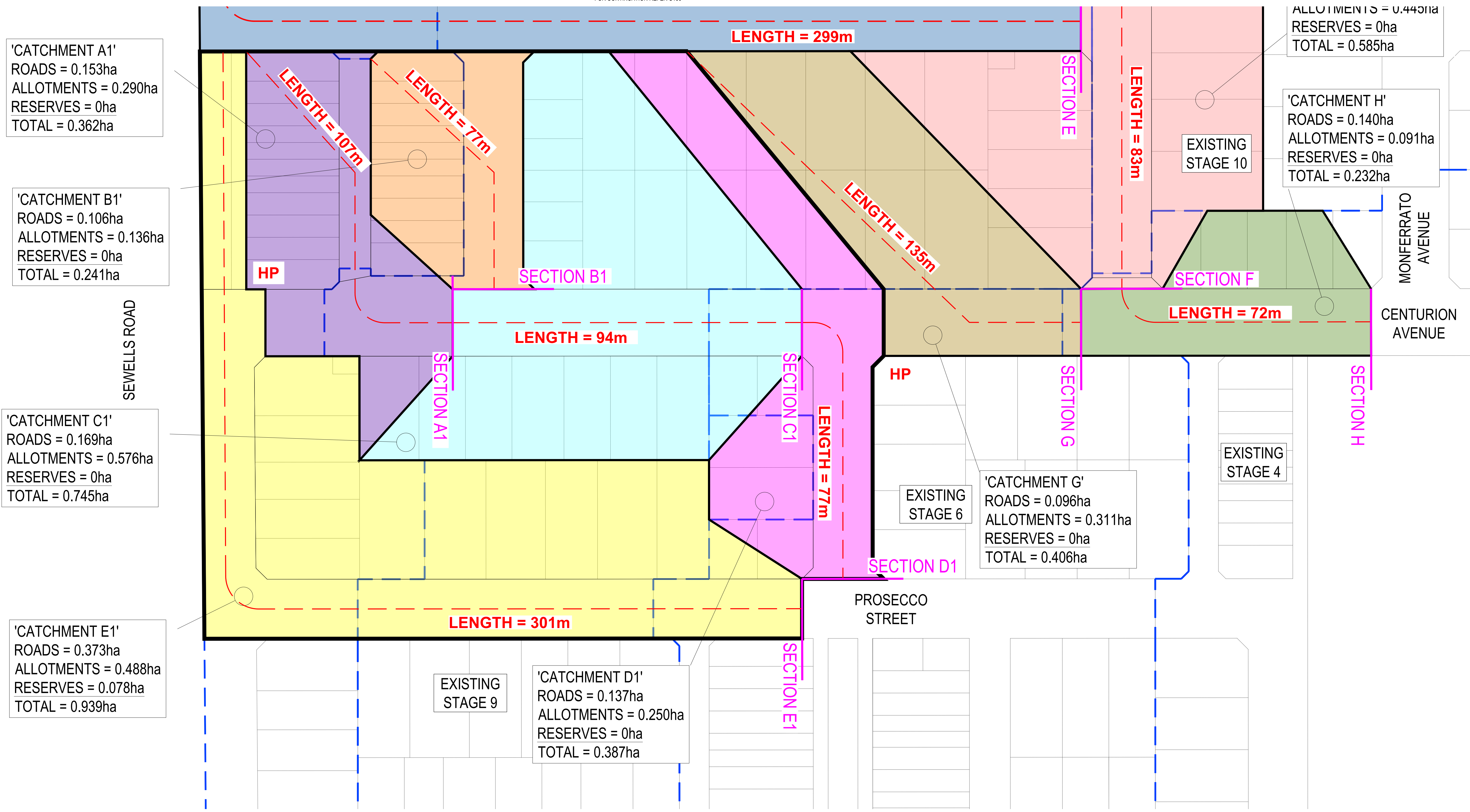
ALAMORA
Tarnait

DRAWING TITLE
ALAMORA - STAGE 32 - 34
Q100 CATCHMENT PLAN - 1

STATUS
ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	C100	B



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.
A	29/05/25	ISSUED FOR APPROVAL	M.P.	A.W.	M.T.

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Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

DRAWING TITLE

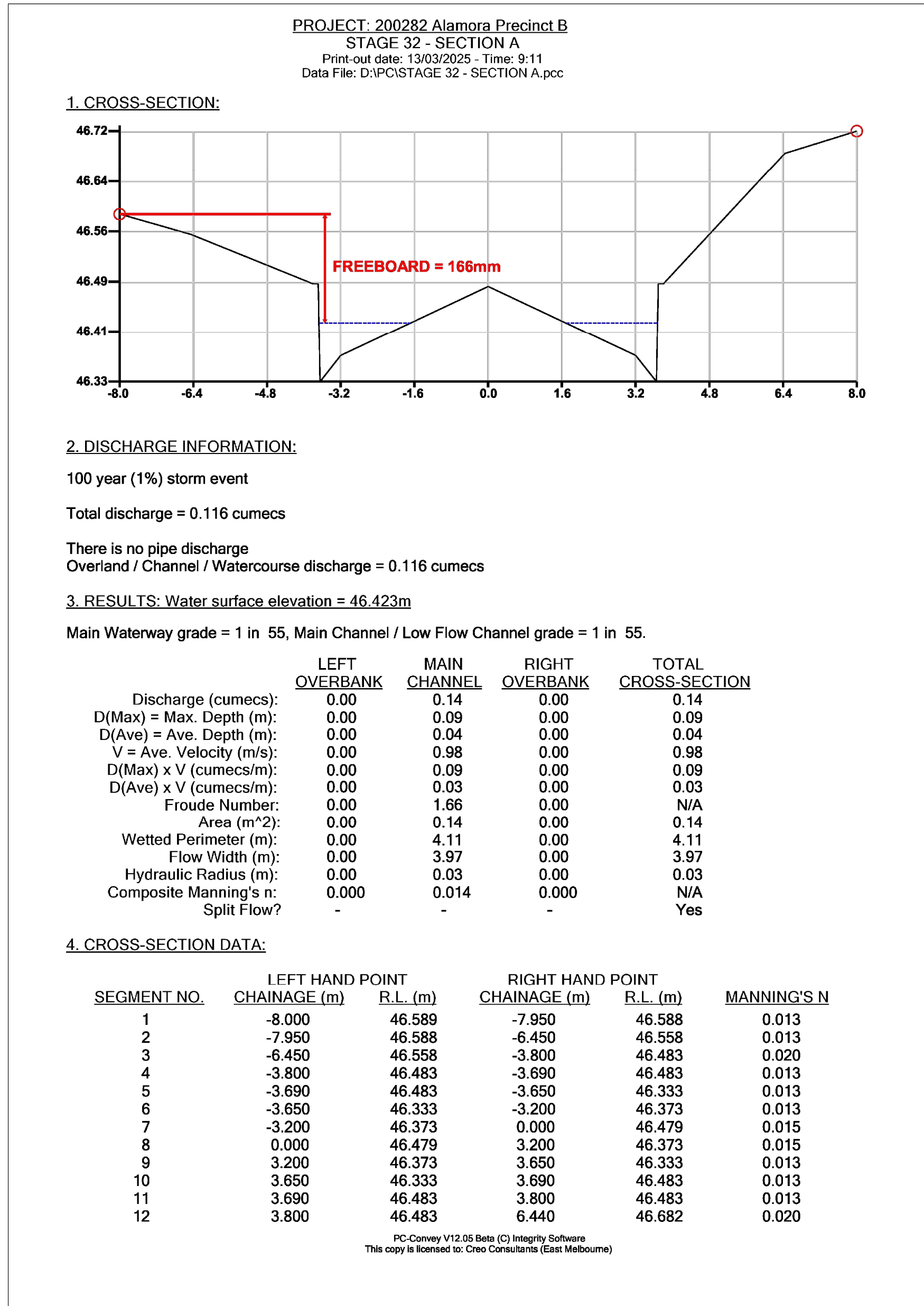
**ALAMORA - STAGE 32 - 34
Q100 CATCHMENT PLAN - 2**

STATUS

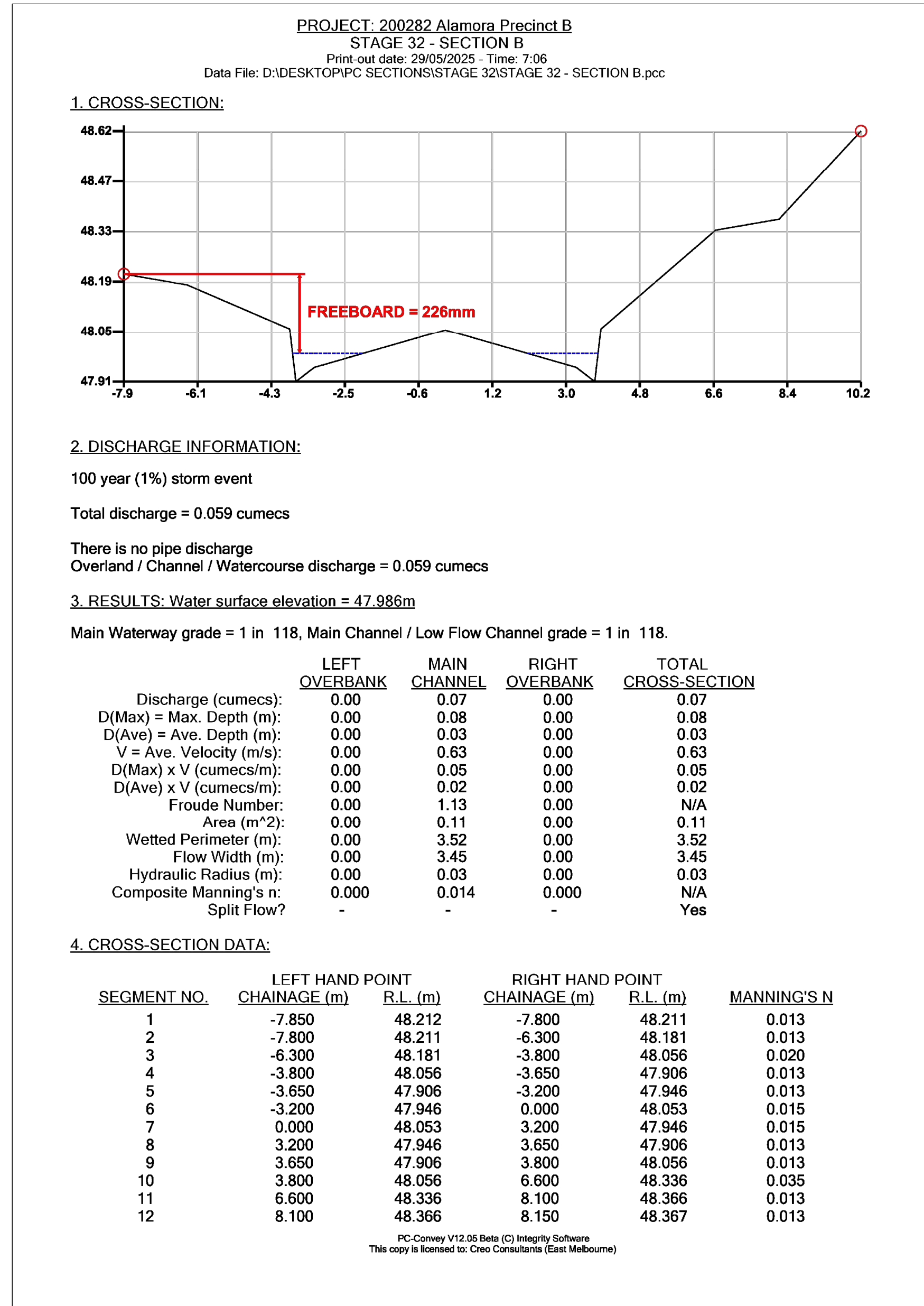
**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

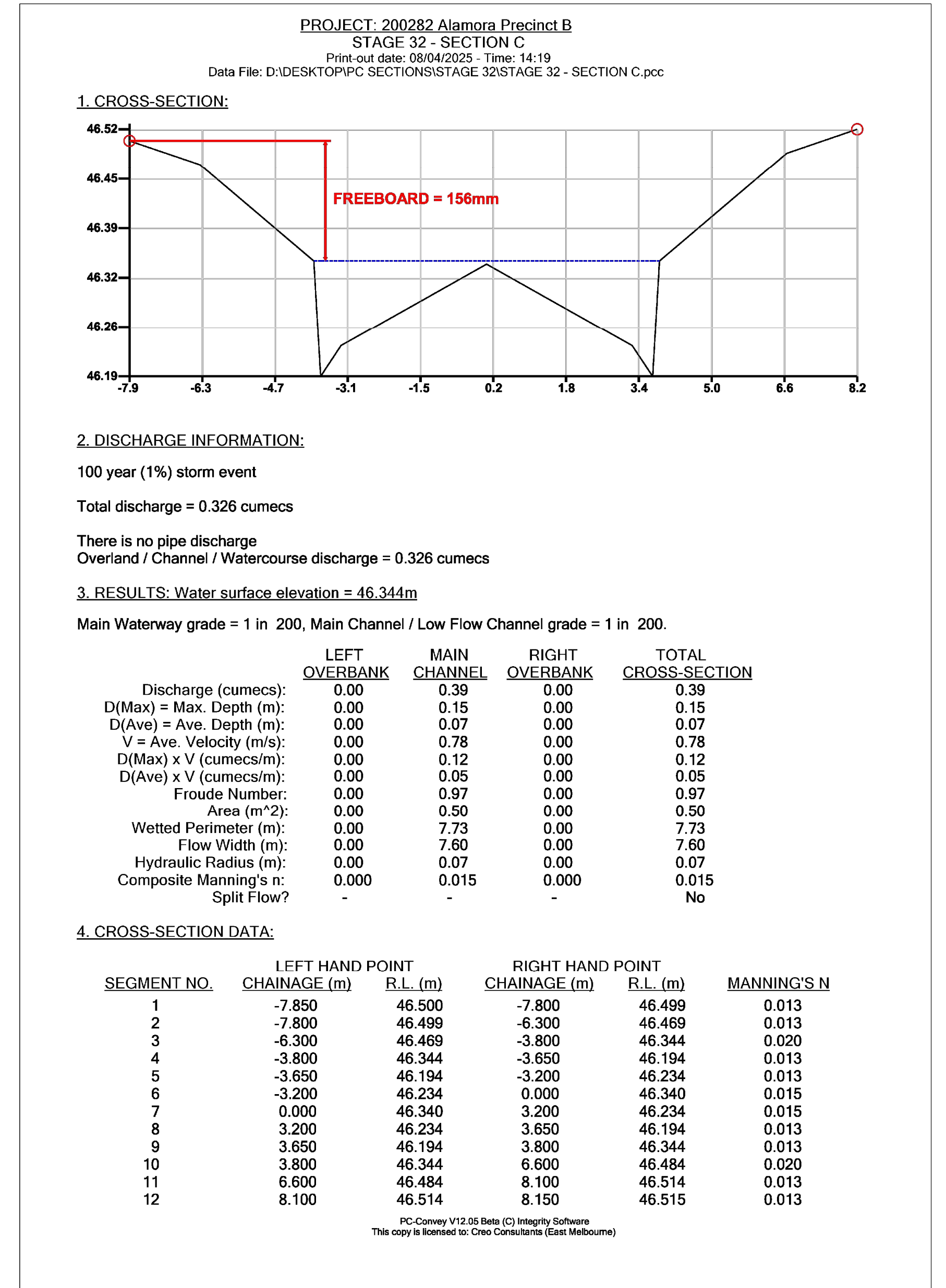
DESIGNED	M.PLANT	PROJECT ENGINEER	A.WALE
DRAWN	M.PLANT	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200282.32	DRAWING No.	C101
REVISION			B



SECTION A



SECTION B



SECTION C

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T
A	29/05/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32 - 34
Q100 CROSS SECTIONS - 1

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

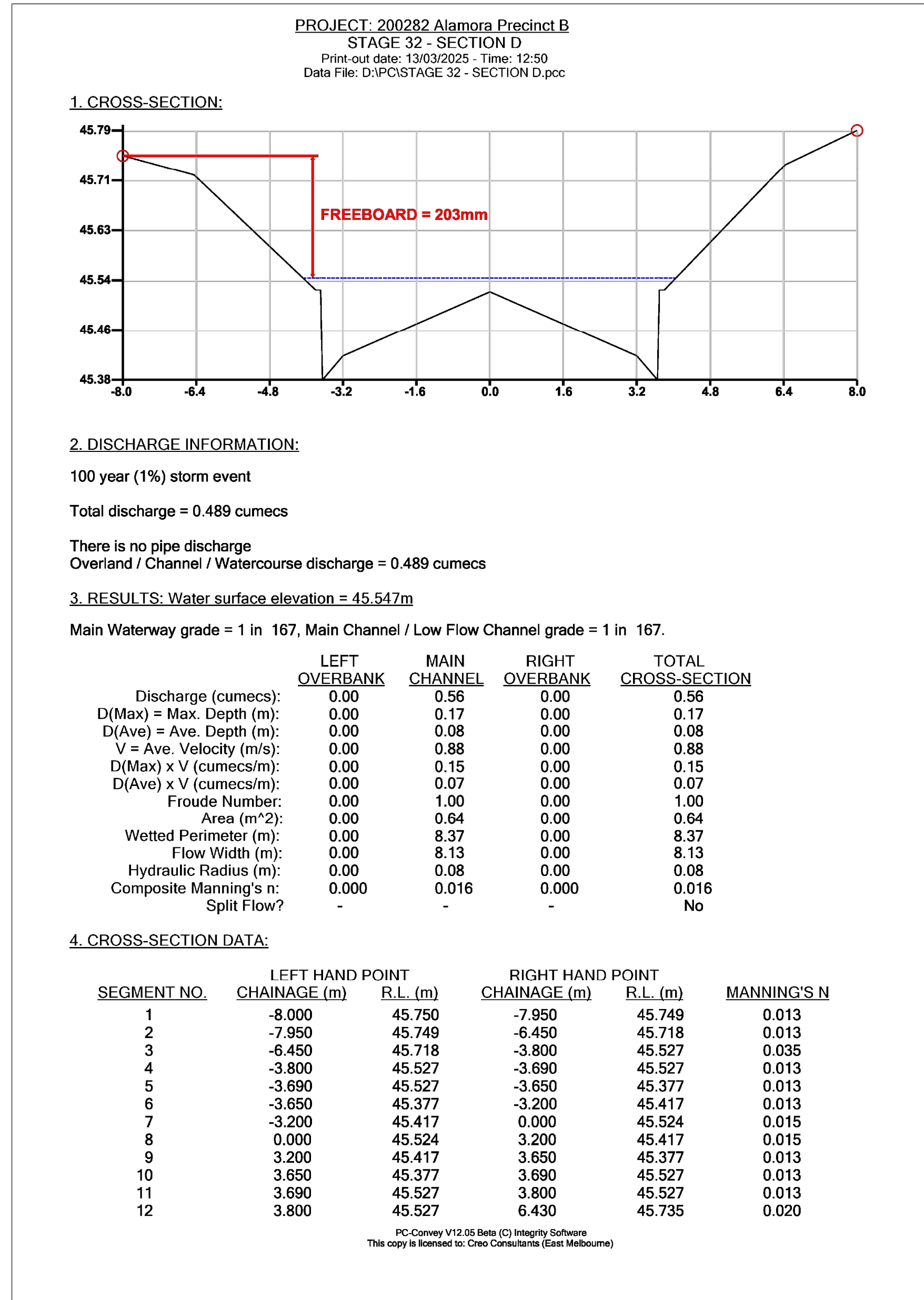
M.TROUNCE

DRAWING No.

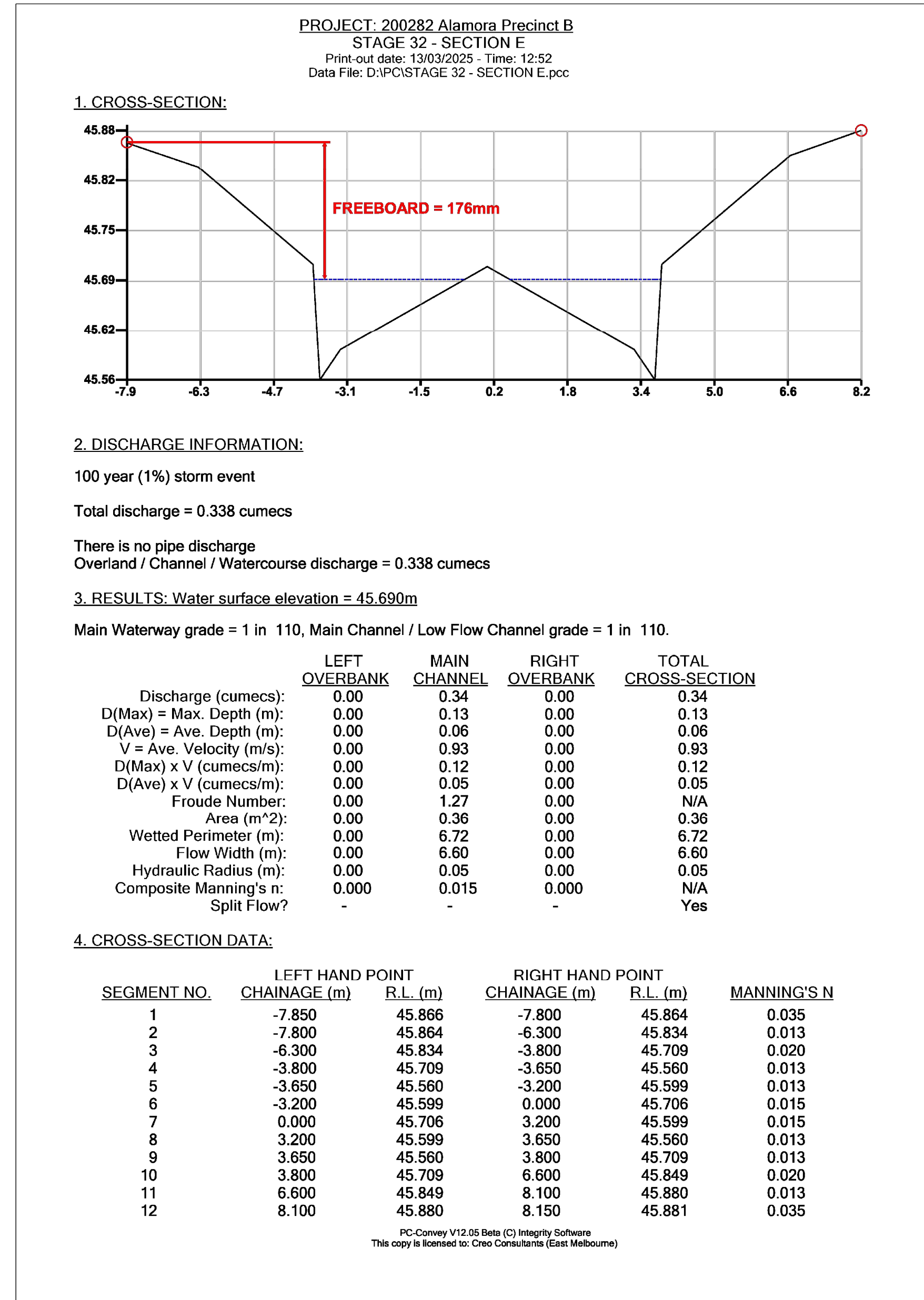
C102

REVISION

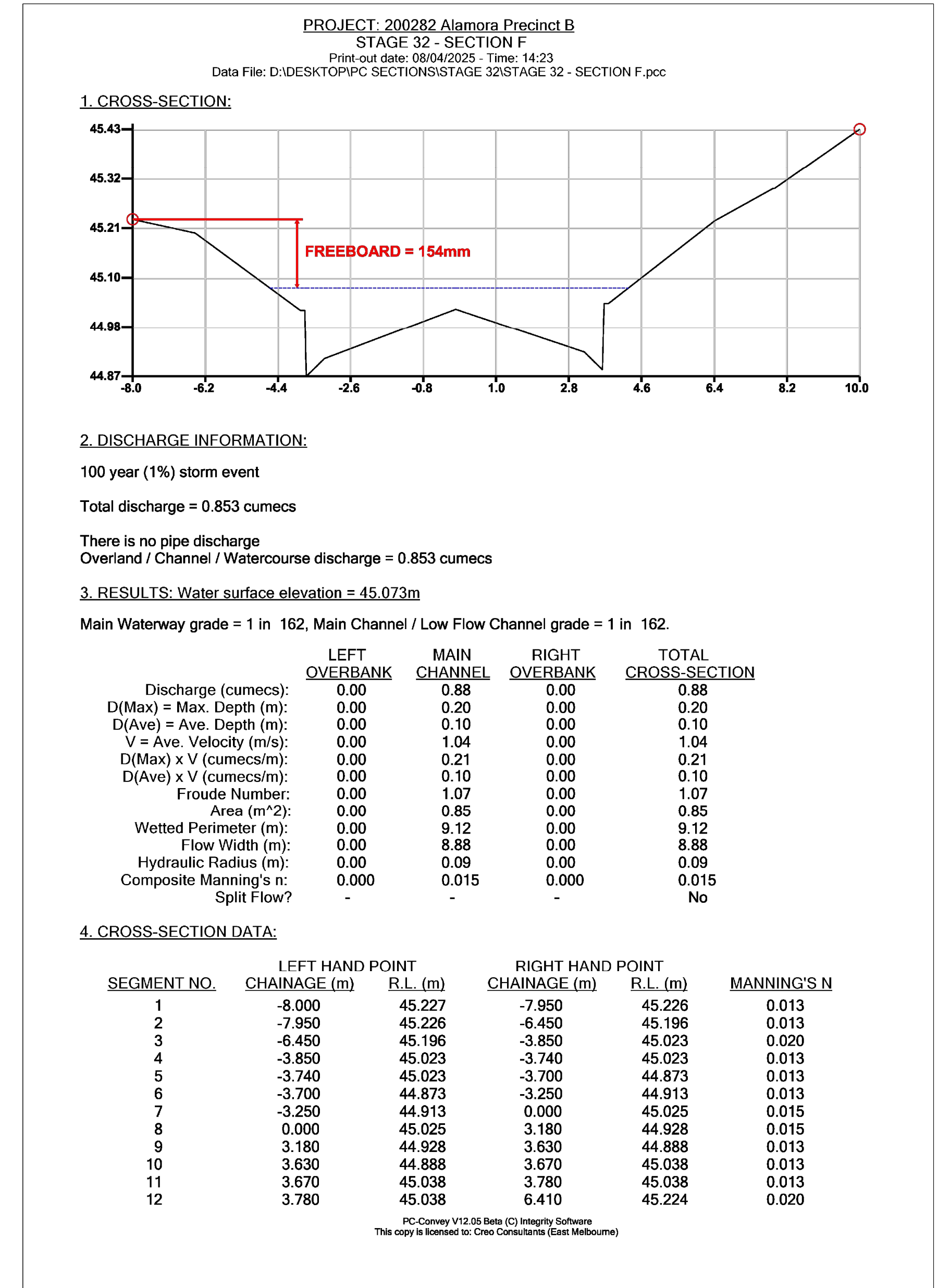
B



SECTION D



SECTION E



SECTION F

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T
A	29/05/25	ISSUED FOR APPROVAL	M.P	A.W	M.T



DRAWING TITLE
**ALAMORA - STAGE 32 - 34
Q100 CROSS SECTIONS - 2**

STATUS
**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

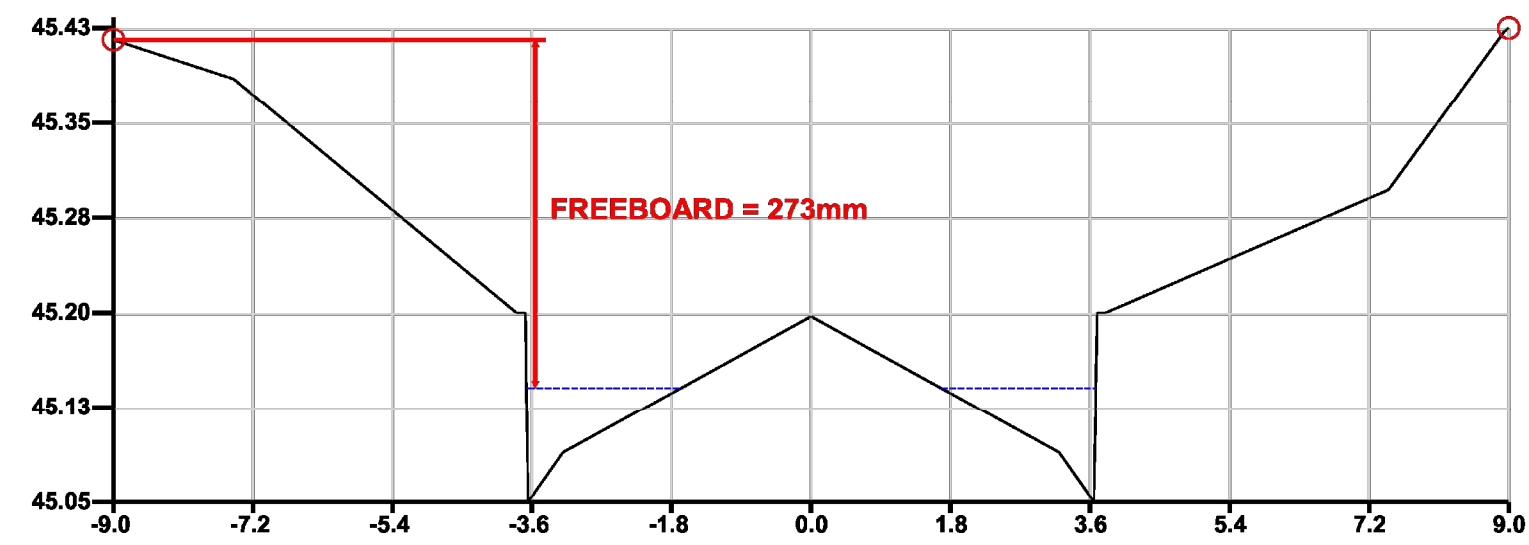
SCALE @ A1:

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	C103	B

PROJECT: 200282 Alamora Precinct B
STAGE 32 - SECTION G

Print-out date: 08/04/2025 - Time: 14:26
Data File: D:\DESKTOP\PC SECTIONS\STAGE 32\STAGE 32 - SECTION G.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
Total discharge = 0.082 cumecs
There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.082 cumecs

3. RESULTS: Water surface elevation = 45.144m

Main Waterway grade = 1 in 171, Main Channel / Low Flow Channel grade = 1 in 171.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.08	0.00	0.08
D(Max) = Max. Depth (m):	0.00	0.09	0.00	0.09
D(Ave) = Ave. Depth (m):	0.00	0.04	0.00	0.04
V = Ave. Velocity (m/s):	0.00	0.56	0.00	0.56
D(Max) x V (cumecs/m):	0.00	0.05	0.00	0.05
D(Ave) x V (cumecs/m):	0.00	0.02	0.00	0.02
Froude Number:	0.00	0.14	0.00	N/A
Area (m ²):	0.00	4.14	0.00	4.14
Wetted Perimeter (m):	0.00	4.00	0.00	4.00
Flow Width (m):	0.00	4.00	0.00	4.00
Hydraulic Radius (m):	0.00	0.03	0.00	0.03
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-9.000	45.417	-8.950	45.416	0.013
2	-8.950	45.416	-7.450	45.386	0.013
3	-7.450	45.386	-3.800	45.203	0.020
4	-3.800	45.203	-3.690	45.203	0.013
5	-3.690	45.203	-3.650	45.054	0.013
6	-3.650	45.054	-3.200	45.093	0.013
7	-3.200	45.093	0.000	45.200	0.015
8	0.000	45.200	3.200	45.093	0.015
9	3.200	45.093	3.650	45.054	0.013
10	3.650	45.054	3.690	45.203	0.013
11	3.690	45.203	3.800	45.203	0.013
12	3.800	45.203	7.450	45.299	0.020

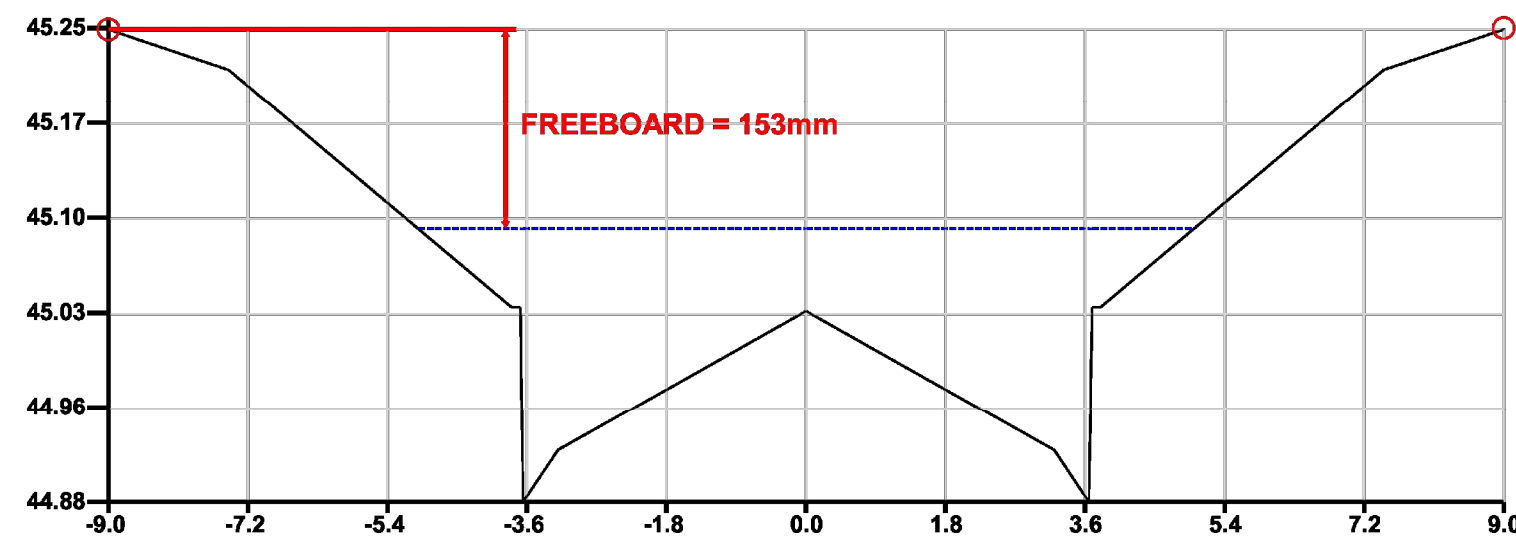
PC Convey V12.05 Beta (C) Integrity Software
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SECTION G

PROJECT: 200282 Alamora Precinct B
STAGE 32 - SECTION H

Print-out date: 08/04/2025 - Time: 14:28
Data File: D:\DESKTOP\PC SECTIONS\STAGE 32\STAGE 32 - SECTION H.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
Total discharge = 0.911 cumecs
There is no pipe discharge
Overland / Channel / Watercourse discharge = 0.911 cumecs

3. RESULTS: Water surface elevation = 45.093m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.95	0.00	0.95
D(Max) = Max. Depth (m):	0.00	0.21	0.00	0.21
D(Ave) = Ave. Depth (m):	0.00	0.10	0.00	0.10
V = Ave. Velocity (m/s):	0.00	0.94	0.00	0.94
D(Max) x V (cumecs/m):	0.00	0.20	0.00	0.20
D(Ave) x V (cumecs/m):	0.00	0.10	0.00	0.10
Froude Number:	0.00	0.94	0.00	0.94
Area (m ²):	0.00	1.01	0.00	1.01
Wetted Perimeter (m):	0.00	10.25	0.00	10.25
Flow Width (m):	0.00	10.01	0.00	10.01
Hydraulic Radius (m):	0.00	0.10	0.00	0.10
Composite Manning's n:	0.000	0.016	0.000	0.016
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-9.000	45.246	-8.950	45.245	0.013
2	-8.950	45.245	-7.450	45.215	0.013
3	-7.450	45.215	-3.800	45.033	0.020
4	-3.800	45.033	-3.690	45.033	0.013
5	-3.690	45.033	-3.650	44.883	0.013
6	-3.650	44.883	-3.200	44.923	0.013
7	-3.200	44.923	0.000	45.030	0.015
8	0.000	45.030	3.200	44.923	0.015
9	3.200	44.923	3.650	44.883	0.013
10	3.650	44.883	3.690	45.033	0.013
11	3.690	45.033	3.800	45.033	0.013
12	3.800	45.033	7.450	45.215	0.020

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SECTION H

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T
A	29/05/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32 - 34
Q100 CROSS SECTIONS - 3

STATUS

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:

DESIGNED

M.PLANT

PROJECT ENGINEER

A.WALE

DRAWN

M.PLANT

PROJECT MANAGER

M.TROUNCE

PROJECT No.

200282.32

DRAWING No.

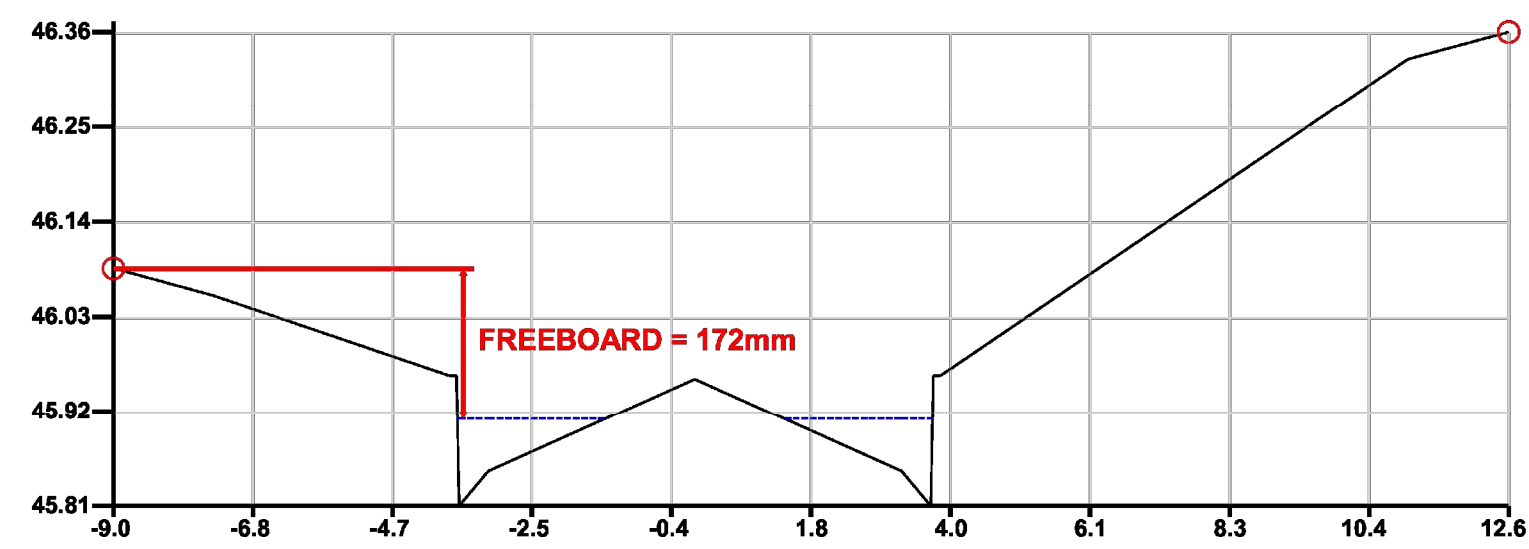
C104

REVISION

B

PROJECT: 200282 Alamora Precinct B
 STAGE 32 - SECTION A1
 Print-out date: 29/05/2025 - Time: 7:09
 Data File: D:\PC\STAGE 32 - SECTION A1.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
 Total discharge = 0.097 cumecs
 There is no pipe discharge
 Overland / Channel / Watercourse discharge = 0.097 cumecs

3. RESULTS: Water surface elevation = 45.914m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.10	0.00	0.10
D(Max) = Max. Depth (m):	0.00	0.10	0.00	0.10
D(Ave) = Ave. Depth (m):	0.00	0.04	0.00	0.04
V = Ave. Velocity (m/s):	0.00	0.56	0.00	0.56
D(Max) x V (cumecs/m):	0.00	0.06	0.00	0.06
D(Ave) x V (cumecs/m):	0.00	0.02	0.00	0.02
Froude Number:	0.00	0.89	0.00	N/A
Wetted Perimeter (m):	0.00	4.74	0.00	4.74
Flow Width (m):	0.00	4.58	0.00	4.58
Hydraulic Radius (m):	0.00	0.04	0.00	0.04
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

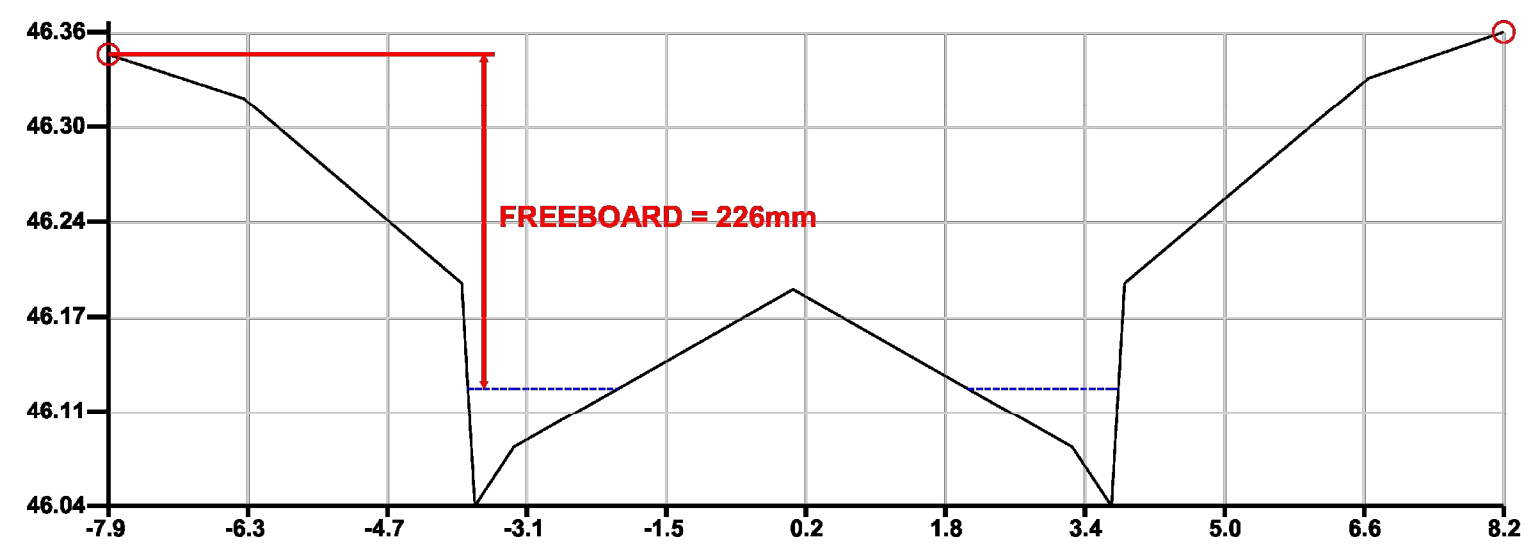
SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-9.000	46.086	-8.950	46.085	0.013
2	-8.950	46.085	-7.450	46.055	0.013
3	-7.450	46.055	-3.800	45.964	0.020
4	-3.800	45.964	-3.690	45.964	0.013
5	-3.690	45.964	-3.650	45.814	0.013
6	-3.650	45.814	-3.200	45.854	0.013
7	-3.200	45.854	0.000	45.960	0.015
8	0.000	45.960	3.200	45.854	0.015
9	3.200	45.854	3.650	45.814	0.013
10	3.650	45.814	3.690	45.964	0.013
11	3.690	45.964	3.800	45.964	0.013
12	3.800	45.964	11.040	46.325	0.035

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SECTION A1

PROJECT: 200282 Alamora Precinct B
 STAGE 32 - SECTION B1
 Print-out date: 05/02/2025 - Time: 12:00
 Data File: D:\PC\STAGE 32 - SECTION B1.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
 Total discharge = 0.079 cumecs
 There is no pipe discharge
 Overland / Channel / Watercourse discharge = 0.079 cumecs

3. RESULTS: Water surface elevation = 46.123m

Main Waterway grade = 1 in 60, Main Channel / Low Flow Channel grade = 1 in 60.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.10	0.00	0.10
D(Max) = Max. Depth (m):	0.00	0.08	0.00	0.08
D(Ave) = Ave. Depth (m):	0.00	0.03	0.00	0.03
V = Ave. Velocity (m/s):	0.00	0.88	0.00	0.88
D(Max) x V (cumecs/m):	0.00	0.07	0.00	0.07
D(Ave) x V (cumecs/m):	0.00	0.03	0.00	0.03
Froude Number:	0.00	1.59	0.00	N/A
Wetted Perimeter (m):	0.00	3.52	0.00	3.52
Flow Width (m):	0.00	3.45	0.00	3.45
Hydraulic Radius (m):	0.00	0.03	0.00	0.03
Composite Manning's n:	0.000	0.014	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

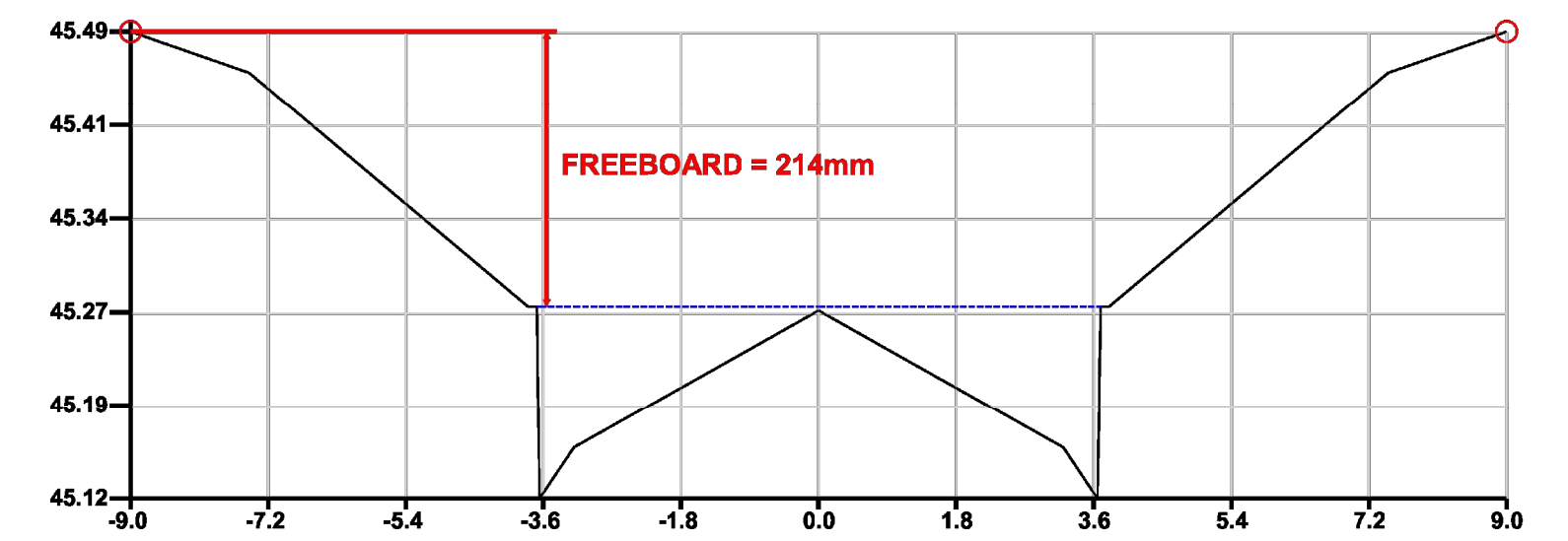
SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-7.850	46.349	-7.800	46.348	0.013
2	-7.800	46.348	-6.300	46.319	0.013
3	-6.300	46.319	-3.800	46.194	0.020
4	-3.800	46.194	-3.650	46.043	0.013
5	-3.650	46.043	-3.200	46.083	0.013
6	-3.200	46.083	0.000	46.190	0.015
7	0.000	46.190	3.200	46.083	0.015
8	3.200	46.083	3.650	46.043	0.013
9	3.650	46.043	3.800	46.194	0.013
10	3.800	46.194	6.600	46.333	0.035
11	6.600	46.333	8.100	46.363	0.013
12	8.100	46.363	8.150	46.364	0.013

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SECTION B1

PROJECT: 200282 Alamora Precinct B
 STAGE 32 - SECTION C1
 Print-out date: 05/02/2025 - Time: 12:03
 Data File: D:\PC\STAGE 32 - SECTION C1.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
 Total discharge = 0.326 cumecs
 There is no pipe discharge
 Overland / Channel / Watercourse discharge = 0.326 cumecs

3. RESULTS: Water surface elevation = 45.271m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.37	0.00	0.37
D(Max) = Max. Depth (m):	0.00	0.15	0.00	0.15
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	0.77	0.00	0.77
D(Max) x V (cumecs/m):	0.00	0.11	0.00	0.11
D(Ave) x V (cumecs/m):	0.00	0.05	0.00	0.05
Froude Number:	0.00	0.96	0.00	0.96
Wetted Perimeter (m):	0.00	0.48	0.00	0.48
Flow Width (m):	0.00	7.38	0.00	7.38
Hydraulic Radius (m):	0.00	0.06	0.00	0.06
Composite Manning's n:	0.000	0.015	0.000	0.015
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-9.000	45.485	-8.950	45.484	0.013
2	-8.950	45.484	-7.450	45.453	0.013
3	-7.450	45.453	-3.800	45.271	0.020
4	-3.800	45.271	-3.690	45.271	0.013
5	-3.690	45.271	-3.650	45.121	0.013
6	-3.650	45.121	-3.200	45.161	0.013
7	-3.200	45.161	0.000	45.268	0.015
8	0.000	45.268	3.200	45.161	0.015
9	3.200	45.161	3.650	45.121	0.013
10	3.650	45.121	3.690	45.271	0.013
11	3.690	45.271	3.800	45.271	0.013
12	3.800	45.271	7.450	45.453	0.020

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SECTION C1

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T
A	29/05/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
 Newtown, VIC, Australia 3220

DRAWING TITLE

ALAMORA - STAGE 32
 Q100 CROSS SECTIONS - 4

STATUS

ISSUED FOR APPROVAL
 NOT FOR CONSTRUCTION

SCALE @ A1:

DESIGNED

M.PLANT

DRAWN

M.PLANT

PROJECT No.

200282.32

PROJECT ENGINEER

A.WALE

PROJECT MANAGER

M.TROUNCE

DRAWING No.

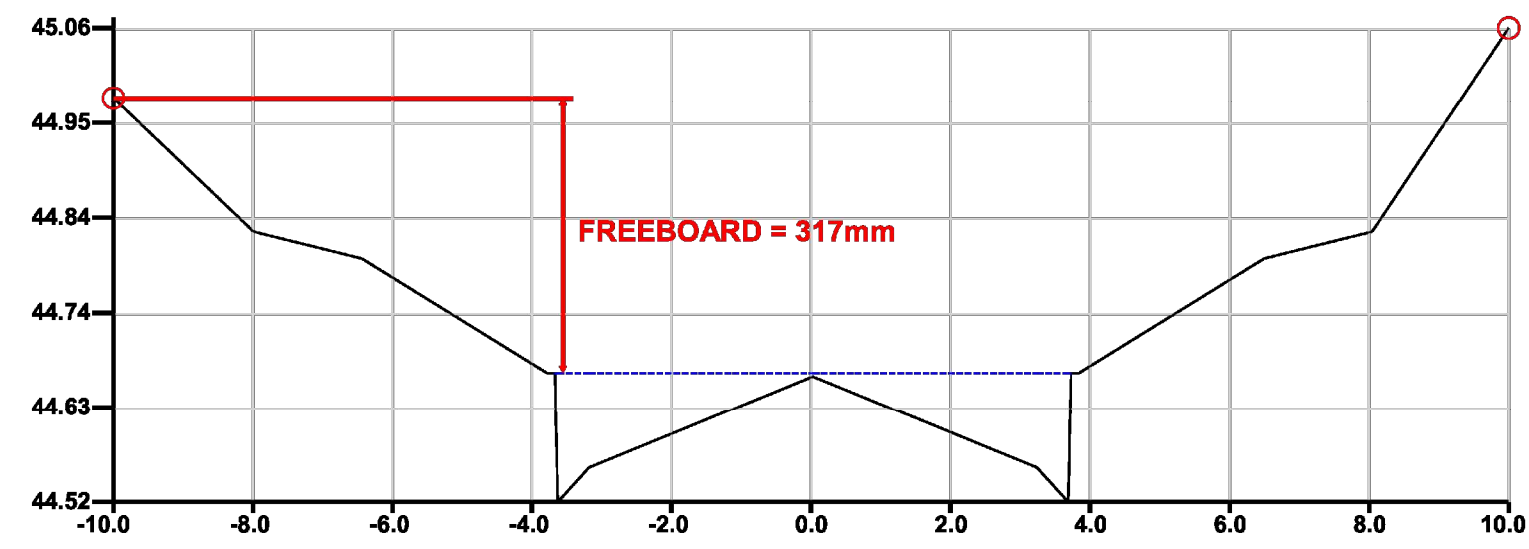
C105

REVISION

B

PROJECT: 200282 Alamora Precinct B
 STAGE 32 - SECTION D1
 Print-out date: 05/02/2025 - Time: 17:17
 Data File: D:\PC\STAGE 32 - SECTION D1.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
 Total discharge = 0.388 cumecs
 There is no pipe discharge
 Overland / Channel / Watercourse discharge = 0.388 cumecs

3. RESULTS: Water surface elevation = 44.666m

Main Waterway grade = 1 in 133, Main Channel / Low Flow Channel grade = 1 in 133.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.46	0.00	0.46
D(Max) = Max. Depth (m):	0.00	0.15	0.00	0.15
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	0.94	0.00	0.94
D(Max) x V (cumecs/m):	0.00	0.14	0.00	0.14
D(Ave) x V (cumecs/m):	0.00	0.06	0.00	0.06
Froude Number:	0.00	1.17	0.00	1.17
Area (m ²):	0.00	0.49	0.00	0.49
Wetted Perimeter (m):	0.00	7.62	0.00	7.62
Flow Width (m):	0.00	7.38	0.00	7.38
Hydraulic Radius (m):	0.00	0.06	0.00	0.06
Composite Manning's n:	0.000	0.015	0.000	0.015
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

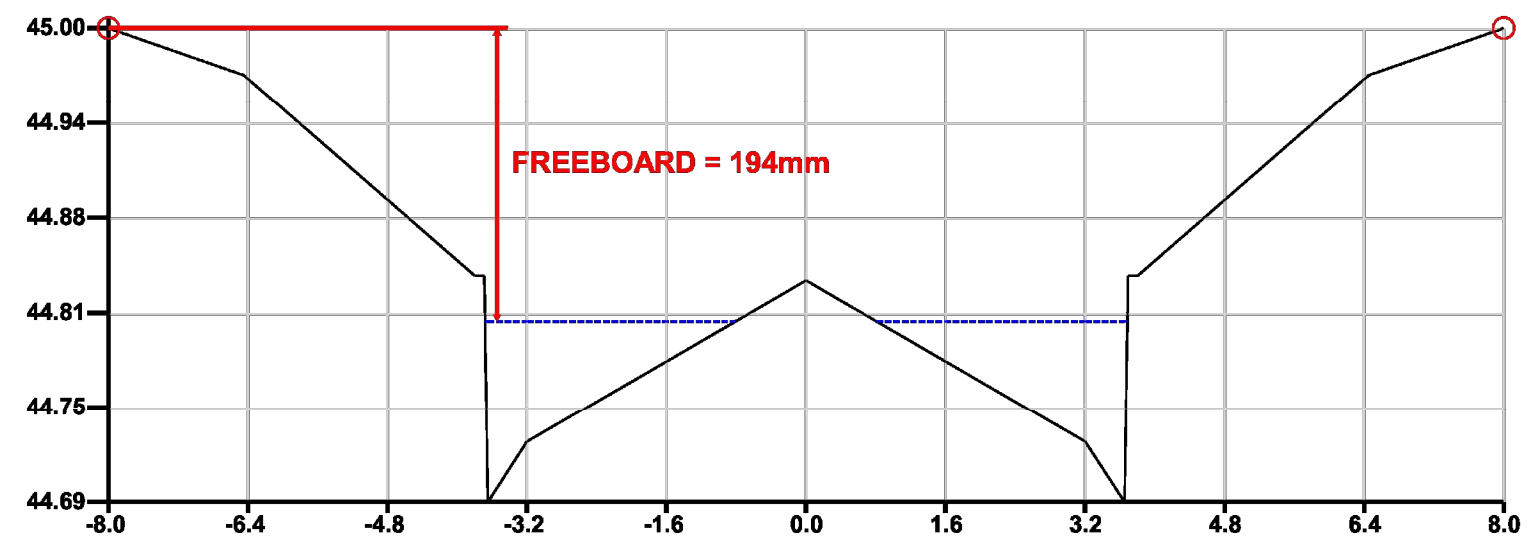
SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-10.000	44.983	-8.000	44.829	0.035
2	-8.000	44.829	-7.950	44.828	0.035
3	-7.950	44.828	-6.450	44.798	0.013
4	-6.450	44.798	-3.800	44.666	0.020
5	-3.800	44.666	-3.690	44.666	0.013
6	-3.690	44.666	-3.650	44.516	0.013
7	-3.650	44.516	-3.200	44.556	0.013
8	-3.200	44.556	0.000	44.662	0.015
9	0.000	44.662	3.200	44.556	0.015
10	3.200	44.556	3.650	44.516	0.013
11	3.650	44.516	3.690	44.666	0.013
12	3.690	44.666	3.800	44.666	0.013

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SECTION D1

PROJECT: 200282 Alamora Precinct B
 STAGE 32 - SECTION E1
 Print-out date: 05/02/2025 - Time: 17:20
 Data File: D:\PC\STAGE 32 - SECTION E1.pcc

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event
 Total discharge = 0.184 cumecs
 There is no pipe discharge
 Overland / Channel / Watercourse discharge = 0.184 cumecs

3. RESULTS: Water surface elevation = 44.808m

Main Waterway grade = 1 in 200, Main Channel / Low Flow Channel grade = 1 in 200.

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.18	0.00	0.18
D(Max) = Max. Depth (m):	0.00	0.12	0.00	0.12
D(Ave) = Ave. Depth (m):	0.00	0.05	0.00	0.05
V = Ave. Velocity (m/s):	0.00	0.64	0.00	0.64
D(Max) x V (cumecs/m):	0.00	0.08	0.00	0.08
D(Ave) x V (cumecs/m):	0.00	0.03	0.00	0.03
Froude Number:	0.00	0.92	0.00	0.92
Area (m ²):	0.00	0.29	0.00	0.29
Wetted Perimeter (m):	0.00	5.94	0.00	5.94
Flow Width (m):	0.00	5.75	0.00	5.75
Hydraulic Radius (m):	0.00	0.05	0.00	0.05
Composite Manning's n:	0.000	0.015	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT		RIGHT HAND POINT		MANNING'S N
	CHAINAGE (m)	R.L. (m)	CHAINAGE (m)	R.L. (m)	
1	-8.000	45.002	-7.950	45.001	0.013
2	-7.950	45.001	-6.450	44.971	0.013
3	-6.450	44.971	-3.800	44.838	0.020
4	-3.800	44.838	-3.690	44.838	0.013
5	-3.690	44.838	-3.650	44.688	0.013
6	-3.650	44.688	-3.200	44.728	0.013
7	-3.200	44.728	0.000	44.835	0.015
8	0.000	44.835	3.200	44.728	0.015
9	3.200	44.728	3.650	44.688	0.013
10	3.650	44.688	3.690	44.838	0.013
11	3.690	44.838	3.800	44.838	0.013
12	3.800	44.838	6.450	44.971	0.035

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SECTION E1

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T
A	29/05/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

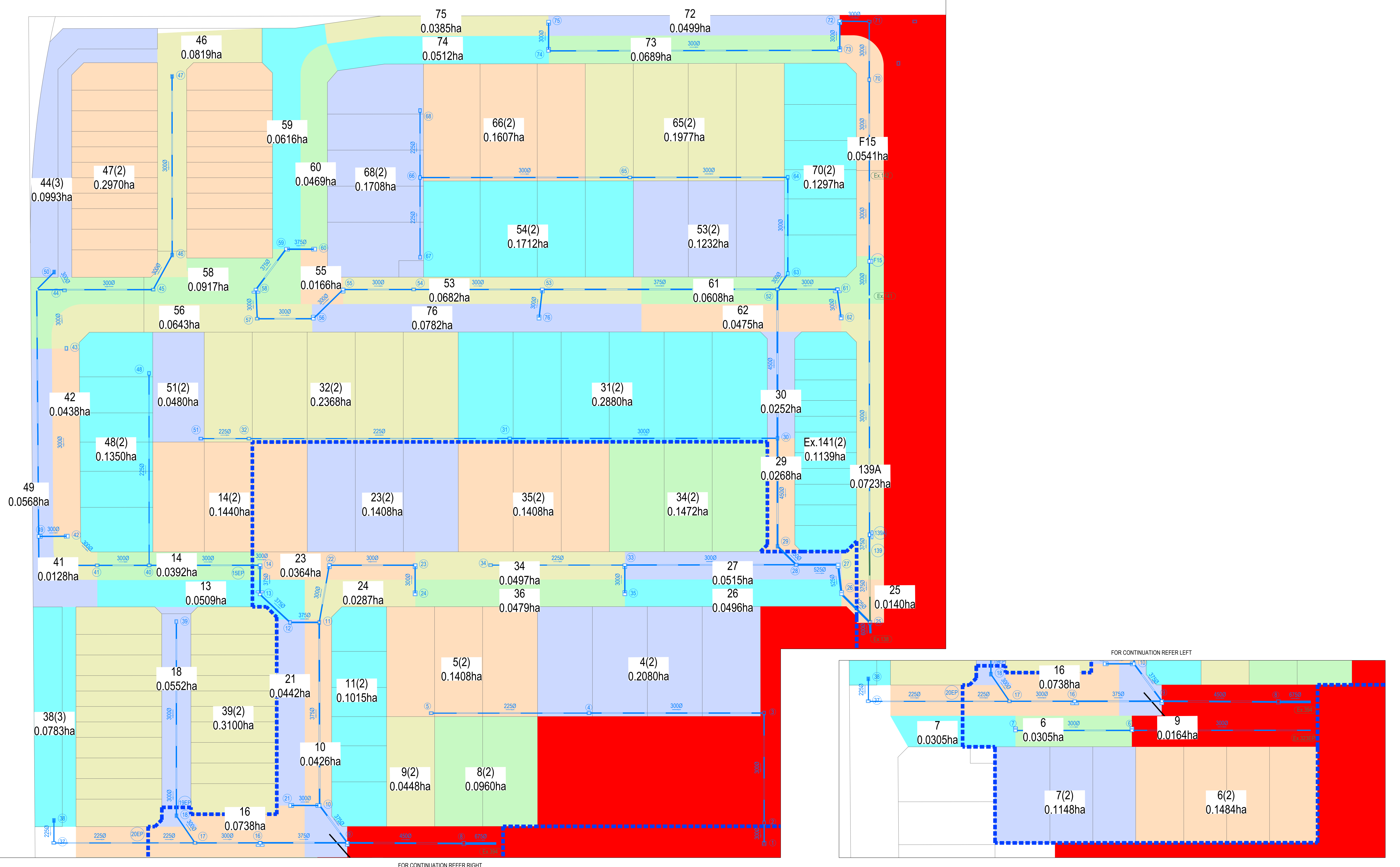


DRAWING TITLE
ALAMORA - STAGE 32
Q100 CROSS SECTIONS - 5

STATUS
ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

SCALE @ A1:

DESIGNED	PROJECT ENGINEER	
M.PLANT	A.WALE	
DRAWN	PROJECT MANAGER	
M.PLANT	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200282.32	C106	B



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
A	23/07/25	ISSUED FOR APPROVAL	M.P	A.W	M.T

villawood
properties
Communities Designed for Living

creo
CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

ALAMORA
Tarnait

DRAWING TITLE
**ALAMORA - STAGE 32
Q5 CATCHMENT PLAN**

STATUS
**ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

0 5 10 20 30

N

DESIGNED M.PLANT	PROJECT ENGINEER A.WALE
DRAWN M.PLANT	PROJECT MANAGER M.TROUNCE
PROJECT No. 200282.32	DRAWING No. C200
	REVISION A

Project:	Alamora Stage 32
Job No:	200282.32

DATE:	23/07/2025
REVISION:	A



DRAINAGE COMPUTATIONS - HYDRAULICS - 1in 5 YEAR ARI -

Pipe US	Pipe DS	Pipe Length (m)	Pipe Size (mm)	Pipe Grade (1 in)	Tc (min)	Intensity (mm/hr)	Sum Ae (ha)	Pipe Flow (l/s)	Pipe Capacity (l/s)	Q/Qf	Capacity Velocity (m/s)	Cover Min (m)	US Pit Ku	Pipe V'head (m)	P'head Loss (m)	Pipe T'head Loss (m)	Pit WSE (m)	Pipe US HGL (m)	Pipe DS HGL (m)	HGL Slope (%)	HGL Grade (1 in)	Freeboard US (m)
2	1	6.2	300	187.2	6.85	74.78	0.2487	51.7	70.7	0.73	1	1.55	2.05	0.03	0.06	0.02	44.14	44.07	44.05	0.29	350.7	1.45
59	58	14.65	375	252	5.14	81.82	0.062	14.1	110.5	0.13	1	1.07	3.29			0.17	47	47	46.83	1.15	87.2	1.13
60	59	8.5	375	252	5	82.4	0.0268	6.1	110.5	0.06	1	0.83	7			0.08	47.08	47.08	47	0.95	104.9	1.04
61	52	17.45	300	187.2	5.14	81.81	0.0619	14.1	70.7	0.2	1	1.13	3.14		0.01		45.23	45.22	45.22	0.02	4725.4	1.14
62	61	8.57	300	187.2	5	82.4	0.0272	6.2	70.7	0.09	1	0.85	7			0.08	45.32	45.31	45.23	0.96	103.6	1.05
63	52	5.52	300	30	6.95	74.38	0.3774	78	176.6	0.44	2.5	1.26	0.43	0.06	0.03	0.09	45.33	45.31	45.22	1.59	62.9	1.27
64	63	28	300	45	6.72	75.33	0.3774	79	144.2	0.55	2.04	1.2	2.08	0.06	0.13	0.64	46.15	45.98	45.33	2.31	43.4	1.07
65	64	46	300	120	6.1	77.85	0.3774	81.6	88.3	0.92	1.25	1.14	1.7	0.07	0.12	0.33	46.56	46.44	46.11	0.71	140.5	1.03
66	65	61.16	300	120	5.29	81.21	0.2364	53.3	88.3	0.6	1.25	1.08	2.29	0.03	0.07	0.42	47.05	46.97	46.56	0.68	146.6	1.12
67	66	23.2	225	100					44.9		1.13	0.69					47.04	47.04	47.04		1000000	0.88
68	66	19.5	225	100	5	82.4	0.1218	27.9	44.9	0.62	1.13	0.85	6.17	0.03	0.15	0.24	47.65	47.49	47.2	1.5	66.9	0.73
139	25	20.66	375	126	8.64	67.39	0.3652	68.4	156.3	0.44	1.41	1.25	2	0.02	0.04	0.13	44.18	44.14	44.01	0.65	154.6	1.26
139A	139	4.9	375	126	8.58	67.63	0.3652	68.6	156.3	0.44	1.41	1.23	-0.02	0.02		0.01	44.19	44.19	44.18	0.15	653.5	1.39
Ex.141	139A	69.32	300	128.4	7.63	71.57	0.3239	64.4	85.4	0.75	1.21	1.35	1.37	0.04	0.06	0.5	44.75	44.69	44.19	0.73	137.3	1.5
F15	Ex.141	10.38	300	50	7.54	71.94	0.2427	48.5	136.8	0.35	1.94	1.43	0.85	0.02	0.02	0.2	44.97	44.95	44.75	1.92	52	1.56
Ex.142	F15	27.45	300	50	7.3	72.91	0.2117	42.9	136.8	0.31	1.94	1.51	2	0.02	0.04	0.53	45.53	45.5	44.97	1.93	51.9	1.5
70	Ex.142	25.44	300	50	7.08	73.82	0.2117	43.4	136.8	0.32	1.94	1.44	1.94	0.02	0.04	0.47	46.05	46.01	45.53	1.87	53.6	1.44
71	70	16.92	300	187.2	6.8	74.98	0.1193	24.8	70.7	0.35	1	1.3	2.07	0.01	0.01	0.1	46.17	46.15	46.05	0.61	164.1	1.47
72	71	8.57	300	187.2	6.66	75.56	0.1193	25	70.7	0.35	1	1.34	2.21	0.01	0.01	0.08	46.26	46.25	46.16	0.97	103.6	1.46
73	72	8.5	300	187.2	6.52	76.15	0.0907	19.2	70.7	0.27	1	1.15	2.27		0.01	0.08	46.35	46.34	46.26	0.96	104.6	1.33
74	73	84.87	300	187.2	5.1	81.97	0.0513	11.7	70.7	0.17	1	1.27	3.34			0.49	46.85	46.84	46.35	0.58	171.5	1.34
75	74	8.5	300	100	5	82.4	0.022	5	96.7	0.05	1.37	1.01	7			0.13	46.98	46.98	46.85	1.53	65.2	1.22
76	53	8.55	300	100	5	82.4	0.0447	10.2	96.7	0.11	1.37	1.14	7		0.01	0.03	45.9	45.89	45.87	0.34	294.5	1.33

Project:	Alamora Stage 32
Job No:	200282.32

DATE:	23/07/2025
REVISION:	A



DRAINAGE COMPUTATIONS - HYDROLOGY

Pit	Pit Type	Setout			Catch ID	Tc (min)	Intensity (mm/hr)	CofR	Area (ha)	Ae (ha)	Sum Ae (ha)	Approach Flow l/s
		Easting (m)	Northing (m)	RL (m)								
1	JP	291911.6	5808753.59	45.32								
2	JP	291912.46	5808759.73	45.59								
3	JP	291916.89	5808791.39	45.83								
4	JP	291866.39	5808798.49	46.22	2P	5	82.4	0.71	0.208	0.1483	0.1483	33.9
5	JP	291820.83	5808804.86	46.65	2P	5	82.4	0.71	0.1408	0.1004	0.1004	23
Ex.323	ENDPIPE	291833.16	5808756.44	45.49								
6	GSEP	291781.59	5808763.66	45.9	1P	5	82.4	0.57	0.0305	0.0175	0.1233	28.2
					2P	5	82.4	0.71	0.1484	0.1058		
7	GSEP	291747.99	5808768.36	46.11	1P	5	82.4	0.57	0.0305	0.0174	0.0993	22.7
					2P	5	82.4	0.71	0.1148	0.0819		
Ex.394	ENDPIPE	291834.31	5808764.63	45.47								
8	JP	291824.97	5808765.94	45.51	2P	5	82.4	0.71	0.096	0.0684	0.0684	15.7
9	GSEP	291791.38	5808770.87	45.87	1P	5	82.4	0.57	0.0164	0.0094	0.0413	9.5
					2P	5	82.4	0.71	0.0448	0.0319		
10	GSEP	291784.89	5808782.77	46.11	1P	5	82.4	0.57	0.0426	0.0243	0.0243	5.6
11	JP	291792.21	5808835.58	47.1	2P	5	82.4	0.71	0.1015	0.0724	0.0724	16.6
12	JP	291783.79	5808836.76	47.11								
13	DSEPG	291776.26	5808846.04	47.07	1P	5	82.4	0.57	0.0509	0.0291	0.0291	6.7
14	GSEP	291777.43	5808854.46	47.08	1P	5	82.4	0.57	0.0392	0.0224	0.1251	28.6
					2P	5	82.4	0.71	0.144	0.1027		
15	ENDPIPE	291774.25	5808854.9	47.1								
16	DSEPG	291766.23	5808774.39	45.99	1P	5	82.4	0.57	0.0738	0.0422	0.0422	9.7
17	JP	291747.42	5808777.02	46.14								
18	GJP	291743.16	5808785.59	46.49	1P	5	82.4	0.57	0.0552	0.0316	0.0316	7.2
19	ENDPIPE	291743.64	5808789.01	46.52								
20	ENDPIPE	291732.9	5808779.05	46.33								
21	GSEP	291776.4	5808783.96	46.12	1P	5	82.4	0.57	0.0442	0.0253	0.0253	5.8
22	GSEP	291797.43	5808851.67	46.98								
23	GSEP	291822.19	5808848.19	46.86	1P	5	82.4	0.57	0.0364	0.0208	0.1212	27.7
					2P	5	82.4	0.71	0.1408	0.1004		
24	GSEP	291821.01	5808839.78	46.86	1P	5	82.4	0.57	0.0287	0.0164	0.0164	3.8
Ex.138	JP	291950.8	5808809.64	45.37								
25	JP	291951.13	5808813.17	45.4	1P	5	82.4	0.57	0.014	0.008	0.008	1.8
26	GSEP	291944.07	5808822.55	45.74	1P	5	82.4	0.57	0.0496	0.0284	0.0284	6.5
27	GSEP	291944.27	5808831.18	45.75	1P	5	82.4	0.57	0.0515	0.0294	0.0294	6.7
28	JP	291932.18	5808832.87	45.86								
29	GJP	291927.53	5808838.95	46.07	1P	5	82.4	0.57	0.0268	0.0153	0.0153	3.5
30	GJP	291931.89	5808870.1	46.22	1P	5	82.4	0.57	0.0252	0.0144	0.0144	3.3
31	JP	291854.63	5808880.91	47.13	2P	5	82.4	0.71	0.288	0.2054	0.2054	47
32	JP	291779.36	5808891.45	47.71	2P	5	82.4	0.71	0.2368	0.1688	0.1688	38.6
33	GSEP	291882.7	5808839.72	46.31	1P	5	82.4	0.57	0.0497	0.0284	0.1334	30.5
					2P	5	82.4	0.71	0.1472	0.105		
34	JP	291843.98	5808845.14	46.66	2P	5	82.4	0.71	0.1408	0.1004	0.1004	23
35	GSEP	291881.52	5808831.31	46.31	1P	5	82.4	0.57	0.0479	0.0274	0.0274	6.3
37	GEP	291706.72	5808782.72	46.68								
38	GEP	291707.67	5808789.49	46.85	3P	5	82.4	0.32	0.0783	0.0254	0.0254	5.8
39	JP	291750.98	5808841.4	47.28	2P	5	82.4	0.71	0.31	0.221	0.221	50.6
40	JP	291745.44	5808858.94	47.39								
41	JP	291730.44	5808861.04	47.68	1P	5	82.4	0.57	0.0128	0.0073	0.0073	1.7
42	JP	291713.62	5808863.39	48.03	1P	5	82.4	0.57	0.0438	0.025	0.025	5.7
43	JP	291714.73	5808871.75	48.16								
44	JP	291724.18	5808943	49.04	3P	5	82.4	0.32	0.0993	0.0322	0.0322	7.4

Project:	Alamora Stage 32
Job No:	200282.32

DATE:	23/07/2025
REVISION:	A



DRAINAGE COMPUTATIONS - HYDROLOGY

Pit	Pit Type	Setout			Catch ID	Tc (min)	Intensity (mm/hr)	CofR	Area (ha)	Ae (ha)	Sum Ae (ha)	Approach Flow l/s
		Easting (m)	Northing (m)	RL (m)								
45	JP	291757.77	5808938.29	48.26								
46	JP	291764.67	5808947.53	48.47	1P	5	82.4	0.57	0.0819	0.0469	0.0469	10.7
47	GEP	291771.88	5808999.02	48.73	2P	5	82.4	0.71	0.297	0.2118	0.2118	48.5
48	JP	291753.19	5808914.3	48.22	2P	5	82.4	0.71	0.135	0.0962	0.0962	22
49	JP	291723.15	5808870.63	48.11	1P	5	82.4	0.57	0.0568	0.0325	0.0325	7.4
50	GEP	291729.92	5808947.37	48.79								
51	JP	291765.5	5808893.39	47.83	2P	5	82.4	0.71	0.048	0.0342	0.0342	7.8
52	JP	291937.91	5808913.08	46.47								
53	JP	291870.07	5808922.57	47.22	1P	5	82.4	0.57	0.0682	0.039	0.1269	29
					2P	5	82.4	0.71	0.1232	0.0878		
54	JP	291832.95	5808927.77	47.66	2P	5	82.4	0.71	0.1712	0.1221	0.1221	27.9
55	JP	291812.59	5808930.62	47.89	1P	5	82.4	0.57	0.0166	0.0095	0.0095	2.2
56	JP	291802.79	5808923.41	47.94	1P	5	82.4	0.57	0.0643	0.0368	0.0368	8.4
57	JP	291786.63	5808925.67	48.02								
58	GSEP	291787.43	5808934.14	48.03	1P	5	82.4	0.57	0.0917	0.0524	0.0524	12
59	GSEP	291797.73	5808944.57	48.13	1P	5	82.4	0.57	0.0616	0.0352	0.0352	8.1
60	JP	291806.15	5808943.39	48.12	1P	5	82.4	0.57	0.0469	0.0268	0.0268	6.1
61	JP	291955.19	5808910.66	46.38	1P	5	82.4	0.57	0.0608	0.0348	0.0348	8
62	JP	291955.12	5808902.09	46.37	1P	5	82.4	0.57	0.0475	0.0272	0.0272	6.2
63	JP	291941.57	5808917.21	46.6								
64	JP	291945.45	5808944.94	47.22								
65	JP	291899.89	5808951.32	47.59	2P	5	82.4	0.71	0.1977	0.141	0.141	32.3
66	GEP	291839.33	5808959.8	48.17	2P	5	82.4	0.71	0.1607	0.1146	0.1146	26.2
67	JP	291836.11	5808936.82	47.92								
68	JP	291842.04	5808979.11	48.38	2P	5	82.4	0.71	0.1708	0.1218	0.1218	27.9
139	ENDPIPE	291953.85	5808833.65	45.44								
139A	DSEPG	291954.53	5808838.51	45.58	1P	5	82.4	0.57	0.0723	0.0414	0.0414	9.5
Ex.141	JP	291964.14	5808907.15	46.25	2P	5	82.4	0.71	0.1139	0.0812	0.0812	18.6
F15	GEP	291965.58	5808917.44	46.53	1P	5	82.4	0.57	0.0541	0.031	0.031	7.1
Ex.142	ENDPIPE	291969.39	5808944.62	47.04								
70	JP	291972.91	5808969.81	47.48	2P	5	82.4	0.71	0.1297	0.0925	0.0925	21.2
71	GEP	291975.27	5808986.57	47.64								
72	GEP	291966.8	5808987.89	47.72	1P	5	82.4	0.57	0.0499	0.0285	0.0285	6.5
73	JP	291965.62	5808979.47	47.68	1P	5	82.4	0.57	0.0689	0.0394	0.0394	9
74	JP	291881.55	5808991.12	48.19	1P	5	82.4	0.57	0.0512	0.0293	0.0293	6.7
75	JP	291882.73	5808999.54	48.2	1P	5	82.4	0.57	0.0385	0.022	0.022	5
76	JP	291867.94	5808914.29	47.23	1P	5	82.4	0.57	0.0782	0.0447	0.0447	10.2