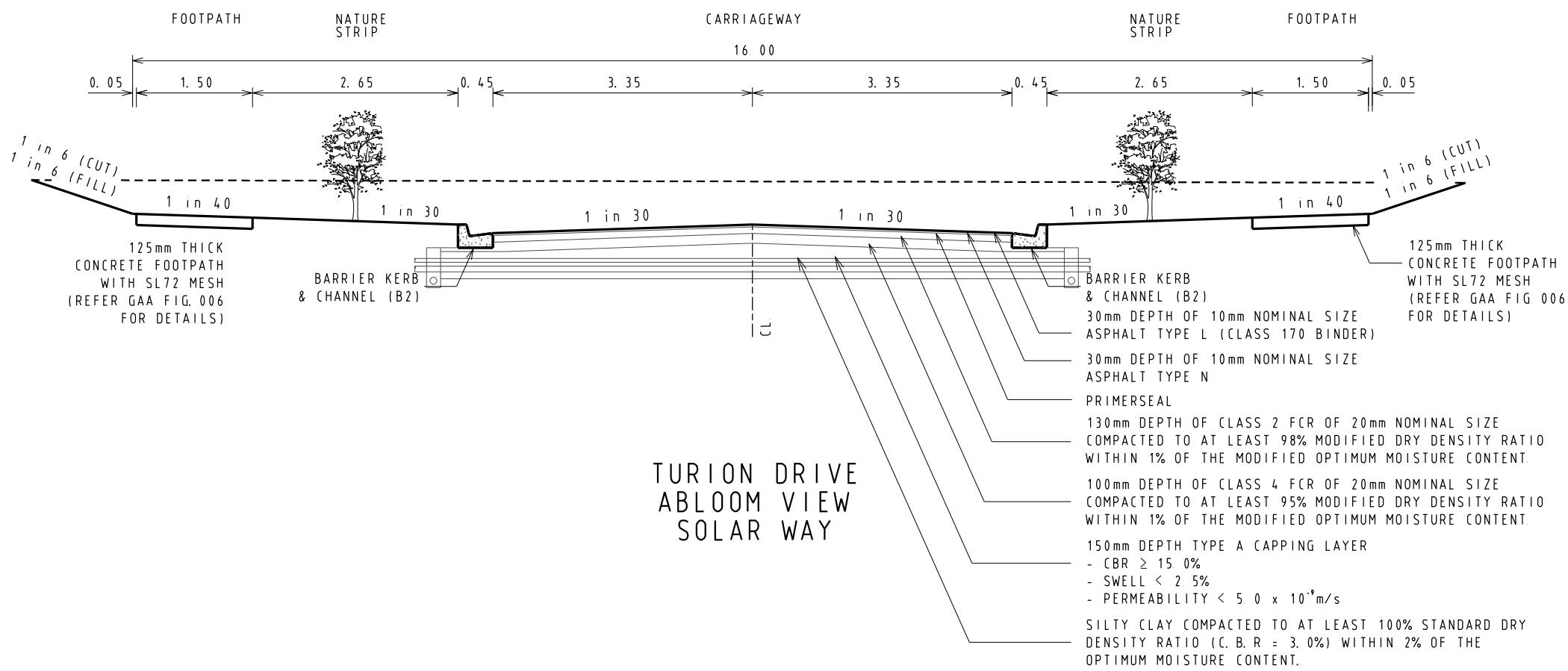


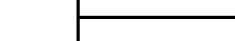
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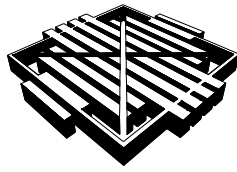
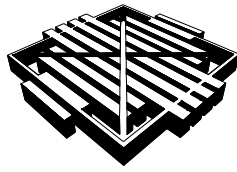
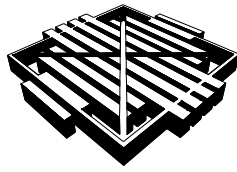
GENERAL NOTES

- UNLESS NOTED OTHERWISE
- 1
- ALL LEVELS AND DIMENSIONS ARE IN METRES (UNO)
- 2
- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS, DRAWINGS AND SPECIFICATIONS OF THE RELEVANT MUNICIPAL AND STATUTORY AUTHORITIES (CURRENT AT THE TIME OF CONSTRUCTION), AND THE AUSTRALIAN STANDARD GENERAL CONDITIONS OF CONTRACT AS 2124-1992
- 3
- THE CONTRACTOR SHALL CHECK LOCATION AND DEPTH OF ALL EXISTING SERVICES, INCLUDING THOSE WHICH MAY HAVE BEEN ABANDONED, PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER
- 4
- FINAL LOCATION OF SERVICE CONDUITS, HOUSE DRAINS AND VEHICLE CROSSINGS SHALL BE DETERMINED ON-SITE BY THE ENGINEER WHERE REQUIRED. CONDUITS FOR GAS AND WATER ARE TO BE A MINIMUM OF 4 METRES CLEAR OF SIDE BOUNDARIES WHERE PRACTICAL. WATER SERVICE LOCATIONS TO BE DETERMINED IN CONJUNCTION WITH WATERMAIN SUBCONTRACTOR
- 5
- THE WORKS ARE TO INCLUDE THE COMPLETE GRADING AND REINSTATEMENT OF DISTURBED AREAS, INCLUDING RESURFACING WITH 150MM MINIMUM DEPTH OF APPROVED TOPSOIL, SOWN TO THE SATISFACTION OF THE ENGINEER
- 6
- THE PLANS OF SUBDIVISION CERTIFIED BY COUNCIL ARE AN ANNEXURE TO THESE DRAWINGS
- 7
- STANDARD DRAWINGS ISSUED BY COUNCIL ARE AN ANNEXURE TO THESE DRAWINGS
- 8
- MELBOURNE WATER PLANS FOR THE ADJACENT WETLAND & OPEN WATER BODY ARE AN ANNEXURE TO THESE DRAWINGS
- 9
- ALL DRAINAGE PIPES WITHIN EASEMENTS ARE AT 1 METRE CENTRELINE OFFSET UNLESS NOTED OTHERWISE
- 10
- PERMISSION IS TO BE OBTAINED FROM THE WATER COMPANY FOR THE USE OF WATER SUPPLY FOR CONSTRUCTION PURPOSES
- 11
- THE 'SCHEDULE OF QUANTITIES' ARE AN ANNEXURE TO THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE 'SCHEDULE OF QUANTITIES' ACCURATELY REFLECTS THE INFORMATION DETAILED IN THESE PLANS. ALL DISCREPANCIES SHOULD BE REPORTED BACK TO THE ENGINEER PRIOR TO SIGNING OF CONTRACTS. NO ALLOWANCES WILL BE MADE FOR DISCREPANCIES ONCE CONTRACTS HAVE BEEN SIGNED
- 12
- THESE PLANS ARE FOR SUBDIVISION CONSTRUCTION PURPOSES ONLY
- 13
- THESE PLANS MAY NOT BE REPRODUCED EXCEPT IN FULL

VERSION DETAILS						SCALE: AS SHOWN				HUME CITY COUNCIL		PLAN NUMBER											
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014		MORNINGTON 5 Main Street, Phone:(03) 5975 4644 Fax:(03) 5975 3916 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 17 637 509 613 VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM LOCALITY PLAN, SHEET INDEX, GENERAL NOTES & TYPICAL CROSS SECTION		36182/7A R01												
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	Ltopo.dgn	DATUM:			AHD	PROJECT No.:	36182/7A	DRAWN:	C.M.B.	DATE:	AUG 2013	DESIGNED:	Z.W.L.	DATE:	AUG 2013	AUTHORISED:	A.S.C.
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.																		
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.																		
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.																		
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.																		
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																						SHEET 1 OF 20	

LOCALITY PLAN



HUME CITY COUNCIL NOTES						SITE SPECIFIC NOTES																																																																																																																																																		
1	ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE					1	ALL CONSTRUCTION TRAFFIC, STORAGE AND COMPOUNDS ARE TO BE LIMITED TO THE SITE OF WORKS THE FUTURE STAGE AREA IS TO BE KEPT UNDISTURBED, EXCEPT FOR SPECIFIC WORKS																																																																																																																																																	
2	COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING					2	THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS																																																																																																																																																	
3	PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION: a) SOURCE OF QUARRY MATERIAL b) N A T A APPROVED TESTS RESULTS FOR THE F C R THAT IS TO BE USED c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED					3	FILLING IN ALL PROPERTIES AND ROAD RESERVES IS TO BE CARRIED OUT USING APPROVED CLAY FILL TOP SOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY. ALL FILLING TO COMPLY WITH AS3798 - 2007, SECTION 8.2, LEVEL 1																																																																																																																																																	
4	PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985, HAVE BEEN AND WILL BE COMPLIED WITH					4	ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED																																																																																																																																																	
5	ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL ". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS					5	ANY CYPRESS OR PINE TREES MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS, AND COUNCIL'S LANDSCAPE OFFICER MUST BE CONSULTED PRIOR TO EITHER THE REMOVAL, OR RETENTION OF ANY OTHER TREES. NO TOPSOIL SHALL BE REMOVED FROM SITE																																																																																																																																																	
6	THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS					6	AG DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL																																																																																																																																																	
7	WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS					7	ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2 (UNO)																																																																																																																																																	
8	ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE					8	ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION																																																																																																																																																	
9	ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)					9	ALL DRAINAGE LINES UNDER PAVEMENTS, PARKING BAYS, ETC AND WHERE TRENCH IS WITHIN 150mm OF BACK OF KERB ARE TO BE BACKFILLED WITH FCR AS SPECIFIED																																																																																																																																																	
10	THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS					10	APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR																																																																																																																																																	
11	FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A S 1289.5.1.1-2003					11	REFER SEPARATE PLAN FOR WORKS ASSOCIATED WITH SEWER, WATER SUPPLY, ELECTRICITY SUPPLY, TELSTRA AND GAS SUPPLY. THESE SERVICES ARE SHOWN ON THE DETAIL PLAN INDICATIVELY ONLY & MAY BE SUBJECT TO MINOR VARIATIONS																																																																																																																																																	
12	FILLING TO COMPLY WITH A S 3798-1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED					12	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF TRENCHING FOR RETICULATION ELECTRICITY AND COMMUNICATION CABLES, AND THE REMOVAL OF EXCESS SPOIL																																																																																																																																																	
13	THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE					13	MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY																																																																																																																																																	
14	WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRECONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED					14	PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL																																																																																																																																																	
15	NO TREE OR NATIVE VEGETAION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCILS SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE					15	USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK																																																																																																																																																	
16	BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA					16	ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT HUME CITY COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF HUME CITY COUNCIL SUPERVISING ENGINEER																																																																																																																																																	
17	THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT					17	NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN																																																																																																																																																	
18	ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE					18	THE CONTRACTOR SHALL CONTACT JEMENA'S JOHN HEMSLEY (03) 93512214 FOR THE COORDINATION OF ELECTRICAL WORKS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF ELECTRICAL WORKS																																																																																																																																																	
19	ALL DISTURBED AREAS, i.e. NATURESTRIPS, BATTERS, ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND SOWN WITH GRASS SEED. SEED IS TO BE A DROUGHT TOLERANT COUCH/FESCUE MIX UNLESS OTHERWISE DETAILED. BLEND IS GENERALLY AS FOLLOWS: 40% Dwarf Tall Fescue - drought tolerant cultivars 40% Couch 20% Hard Fescue NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD					19	THE CONTRACTOR SHALL CONTACT TELSTRA'S NOMINATED REPRESENTATIVE, PETER FEBO (03) 9632 6384 FOR THE COORDINATION OF TELSTRA WORKS IN LAYING CONDUITS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF TELSTRA WORKS																																																																																																																																																	
20	FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY					20	TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH																																																																																																																																																	
21	ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED					21	ALL BATTERS SHALL BE BLENDED INTO THE NATURAL GROUND LEVEL TO THE SATISFACTION OF THE ENGINEER, 0.3M BERM REQUIRED AT TOE OF BATTERS HIGHER THAN 0.7M																																																																																																																																																	
22	ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SANDBLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED					22	DRIVEWAYS ARE TO BE CUT ONTO ALL ALLOTMENTS, AT MAXIMUM GRADE OF 1 IN 5 WHERE BATTERS HIGHER THAN 0.70M. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION																																																																																																																																																	
						23	INVERT LEVEL OF PROPERTY INLETS TO BE MINIMUM OF 500mm BELOW FINISHED SURFACE LEVELS AS PER HUME CITY COUNCIL STANDARDS																																																																																																																																																	
						24	SIGNS, MARKINGS AND DELINEATORS TO BE INSTALLED ON ROADS AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED																																																																																																																																																	
						25	STREET SIGNS ARE TO BE TO CURRENT HUME CITY COUNCIL STANDARD'S, INCLUDING PROVISION OF LOGO																																																																																																																																																	
						26	REFER TO SHEET 4, 5 & 6 FOR PSM LOCATIONS																																																																																																																																																	
						27	CONDUIT LOCATIONS AND HOUSE DRAIN LOCATIONS ARE TO BE MARKED BY STAMP ON ALL PERMANENT CONCRETE WORKS IN ACCORDANCE WITH HUME CITY COUNCIL STANDARDS																																																																																																																																																	
						28	ALL PIT LIDS ARE TO BE TO CURRENT HUME CITY COUNCIL STANDARDS																																																																																																																																																	
						29	ALL VEHICLE CROSSINGS SHOWN ARE INDICATIVE ONLY. VEHICLE CROSSING ARE TO BE CONSTRUCTED AS PER HUME CITY COUNCIL STANDARDS																																																																																																																																																	
						30	TACTILE INDICATORS TO BE PROVIDED AT ALL PRAM CROSSINGS TO HUME CITY COUNCIL STANDARD'S AND IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.4																																																																																																																																																	
						31	PEDESTRIAN CROSSINGS THROUGH ALL SPLITTER ISLAND TO BE AT PAVEMENT LEVEL																																																																																																																																																	
						32	ALL PIT FLOORS WITH LESS THAN 30MM DROP TO BE SHAPED TO ACCOMODATE DROP THROUGH PITS. NO ALLOWANCE FOR TOLERANCE HAS BEEN MADE WITH THE IL'S PROVIDED. ALL PITS TO BE CONSTRUCTED TO HUME CITY COUNCIL STANDARDS																																																																																																																																																	
						33	WHERE ANY EXISTING DAMS, OPEN DRAINS OR CHANNELS ARE TO BE FILLED, INVERT LEVELS MUST BE TAKEN PRIOR TO COMMENCEMENT OF FILLING AND THE LEVELS SHOWN ON THE 'AS-CONSTRUCTED' PLANS																																																																																																																																																	
<table><tr><th colspan="6">VERSION DETAILS</th><th colspan="2">SCALE: AS SHOWN</th><td rowspan="10"> MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 + TOWN PLANNERS + CIVIL ENGINEERS + SURVEYORS MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613 </td><td colspan="2">REVISION</td><td colspan="2">DATE</td><td colspan="2">PLAN NUMBER</td></tr><tr><td colspan="2">E</td><td colspan="2">17/04/2014</td><td colspan="2">ALL</td><td colspan="2">-</td><td colspan="2">AS CONSTRUCTED</td><td colspan="2">Z.W.L.</td><td colspan="2">36182/7A R02</td></tr><tr><td colspan="2">D</td><td colspan="2">28/02/2014</td><td colspan="2">3</td><td colspan="2">DRAINAGE LINE 12 OFFSET ADDED</td><td colspan="2">ISSUED FOR CONSTRUCTION</td><td colspan="2">Z.W.L.</td><td colspan="2"></td></tr><tr><td colspan="2">C</td><td colspan="2">26/02/2014</td><td colspan="2">3, 13, 14 & 15</td><td colspan="2">DRAINAGE LINE 12 AMENDMENTS</td><td colspan="2">ISSUED FOR CONSTRUCTION</td><td colspan="2">Z.W.L.</td><td colspan="2"></td></tr><tr><td colspan="2">B</td><td colspan="2">25/10/2013</td><td colspan="2">ALL</td><td colspan="2">COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)</td><td colspan="2">ISSUED FOR CONSTRUCTION</td><td colspan="2">Z.W.L.</td><td colspan="2"></td></tr><tr><td colspan="2">A</td><td colspan="2">9/10/2013</td><td colspan="2">3, 4 & 11</td><td colspan="2">LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724</td><td colspan="2">PRELIMINARY</td><td colspan="2">Z.W.L.</td><td colspan="2"></td></tr><tr><td colspan="6">FILENAME: k:\36182\36182_7A.dgn\r02.dgn</td><td colspan="2">DATE PRINTED: 17/04/2014</td><td colspan="2">LEVEL DATA: Ltopo.dgn</td><td colspan="2">DATUM: AHD</td><td colspan="2"></td></tr><tr><td colspan="6"></td><td colspan="2">PROJECT No: 36182/7A</td><td colspan="2">DRAWN: C.M.B.</td><td colspan="2">DATE: AUG 2013</td><td colspan="2"></td></tr><tr><td colspan="6"></td><td colspan="2">DESIGNED: Z.W.L.</td><td colspan="2">DATE: AUG 2013</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="6"></td><td colspan="2">AUTHORISED: A.S.C.</td><td colspan="2">DATE: AUG 2013</td><td colspan="2"></td><td colspan="2"></td></tr></table>						VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 + TOWN PLANNERS + CIVIL ENGINEERS + SURVEYORS MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613	REVISION		DATE		PLAN NUMBER		E		17/04/2014		ALL		-		AS CONSTRUCTED		Z.W.L.		36182/7A R02		D		28/02/2014		3		DRAINAGE LINE 12 OFFSET ADDED		ISSUED FOR CONSTRUCTION		Z.W.L.				C		26/02/2014		3, 13, 14 & 15		DRAINAGE LINE 12 AMENDMENTS		ISSUED FOR CONSTRUCTION		Z.W.L.				B		25/10/2013		ALL		COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)		ISSUED FOR CONSTRUCTION		Z.W.L.				A		9/10/2013		3, 4 & 11		LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724		PRELIMINARY		Z.W.L.				FILENAME: k:\36182\36182_7A.dgn\r02.dgn						DATE PRINTED: 17/04/2014		LEVEL DATA: Ltopo.dgn		DATUM: AHD										PROJECT No: 36182/7A		DRAWN: C.M.B.		DATE: AUG 2013										DESIGNED: Z.W.L.		DATE: AUG 2013												AUTHORISED: A.S.C.		DATE: AUG 2013											
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	Kerb & Channel
	Footpath, Vehicular Crossing Layback & House Drain
	Proposed Underground Drainage, Pit & Property Inlet
	Existing Underground Drainage, Pit & Property Inlet
	Drainage Pit Number
	Design Surface Level - Allotments
	Existing Surface Level - Allotments
	Top of Batter Level - Allotments (Front)
	Kerb Level
	Pavement Level
	Proposed Cut Areas - Allotments
	Proposed Fill Areas - Allotments
	Service Conduits - Gas - Water - Recycled Water - Electricity - Telstra - Optic Fibre
	Gas Main
	Water Main
	Optic Fibre Underground Cable
	Electrical Underground Cable & Pit
	Telstra Underground Cable
	Sewer Main, Access Chamber & Inspection Shaft
	Existing Pole (with stay)
	Street Name Sign
	Existing Tree or Plantation
	P.S.M. or Survey Mark
	Lot Slope Direction
	T.B.M with Description

NOTE:

1. Symbols are proposed construction (UNO)
2. Existing construction shown with broken lines



SERVICE OFFSETS (m) from building line
(UNLESS NOTED OTHERWISE)

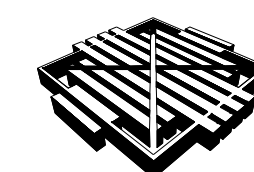
STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
ABLOOM VIEW	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-
TURION DRIVE	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	-
SOLAR WAY	2.05 W	2.55 W	3.05 W	2.60 E	1.775 E	1.00 W

VERSION DETAILS						SCALE:	AS SHOWN
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	L1topo.dgn
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.:	36182/7A
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN:	C.M.B. DATE: AUG 2013
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013
FILENAME: k:\36182\36182_7\c.dgn\03.dgn						AUTHORISED:	A.S.C. DATE: AUG 2013

MORNINGTON
5 Main Street,
Phone:(03) 5975 4644
Fax:(03) 5975 3916

MELBOURNE
The Melburnian, Suite
250 St. Kilda Rd.
Phone:(03) 9697 8000
Fax:(03) 9697 8099

- TOWN PLANNERS
- CIVIL ENGINEERS
- SURVEYORS
- Project Managers
- Urban Designers
- Structural Engineers



WATSON
URBAN DEVELOPMENT
CONSULTANTS & MANAGER
ABN 47 637 509 613

HUME CITY COUNCIL

VILLAWOOD PROPERTIES P/L
TRILLIUM - STAGE 7A
535 MOUNT RIDLEY ROAD
MICKLEHAM

DETAIL PLAN & SERVICE OFFSET TABLE

PLAN NUMBER

6182/7A
R 03

VISION E

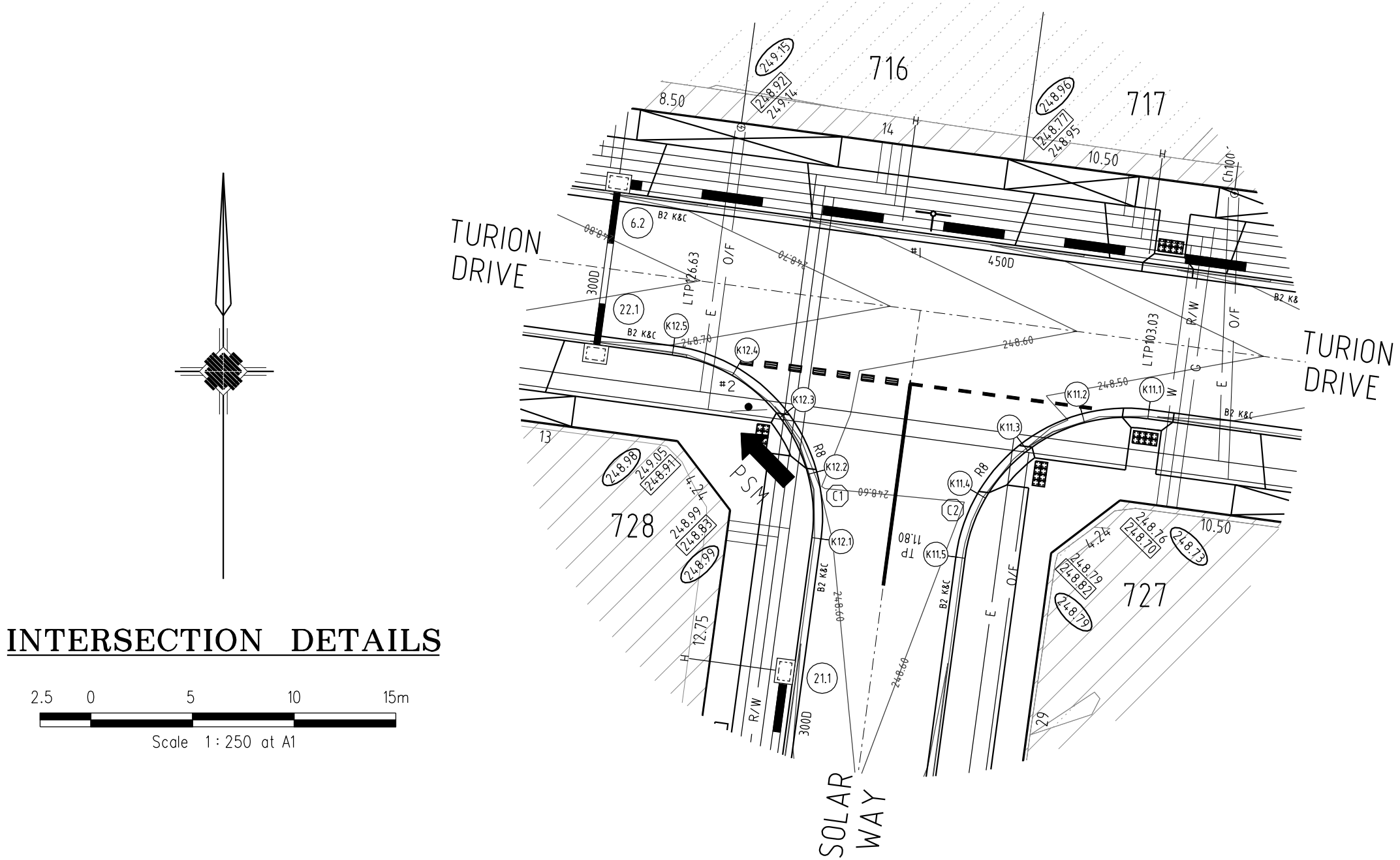
HEET 3 OF 20

ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS FOR ROAD AND DRAINAGE WORKS

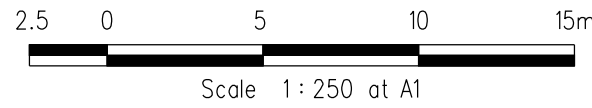
WARNING
OVERHEAD ELECTRICITY

Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

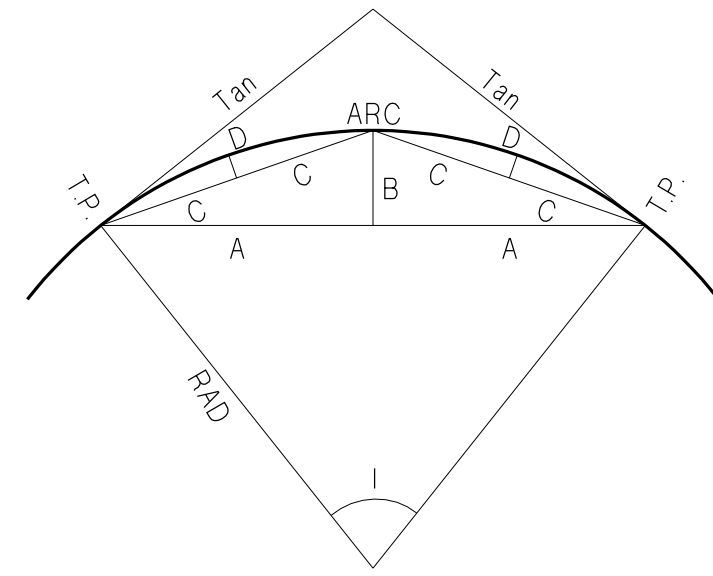
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN



INTERSECTION DETAILS



PLAN I.D.	PICTORIAL	CODE No.
#1		STREET SIGN
#2		R1-2A



CURVE SETOUT TABLE

Curve	Radius	l	o	i	"	Arc	Tan	A	B	C	D
1	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
2	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61

KERB RETURN K11

POINT NO.	EASTING	NORTHING	RL
K11.1	3737.114	9734.479	248.445
K11.2	3733.825	9734.271	248.488
K11.3	3730.864	9732.82	248.544
K11.4	3728.684	9730.346	248.584
K11.5	3727.617	9727.228	248.581

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L.246

DESIGN CENTRELINE	248.391	248.445	248.488	248.544	248.584	248.581	248.542
EXISTING SURFACE		248.78	248.82	248.85	248.86	248.85	
CHAINAGES	-5.00	0.00	3.32	6.64	9.95	13.27	18.27

K11 LONGITUDINAL SECTION

KERB RETURN K12

POINT NO.	EASTING	NORTHING	RL
K12.1	3720.976	9728.118	248.581
K12.2	3720.769	9731.407	248.607
K12.3	3719.317	9734.368	248.635
K12.4	3716.844	9736.548	248.665
K12.5	3713.725	9737.615	248.698

NOTE: SETOUT IS TO LIP OF KERB

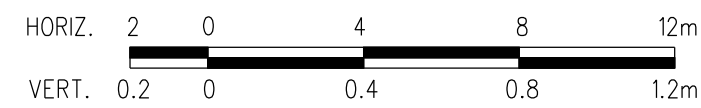
Vertical Grade
VC length

Datum R.L.246

DESIGN CENTRELINE	248.542	248.581	248.607	248.635	248.665	248.698	248.750
EXISTING SURFACE		248.93	248.96	249.00	249.05	249.09	
CHAINAGES	-5.00	0.00	3.32	6.64	9.95	13.27	18.27

K12 LONGITUDINAL SECTION

LONGITUDINAL SECTIONS



Horiz. Scale 1:200 at A1
Vert. Scale 1:20 at A1

VERSION DETAILS						SCALE: AS SHOWN	
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	Ltopo.dgn
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.:	36182/7A
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN:	C.M.B. DATE: AUG 2013
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013
FILENAME: k:\36182\36182_7\7.dgn\r04.dgn						AUTHORISED:	A.S.C. DATE: AUG 2013

MORNINGTON
5 Main Street,
Phone(03) 5975 4644
Fax(03) 5975 3916

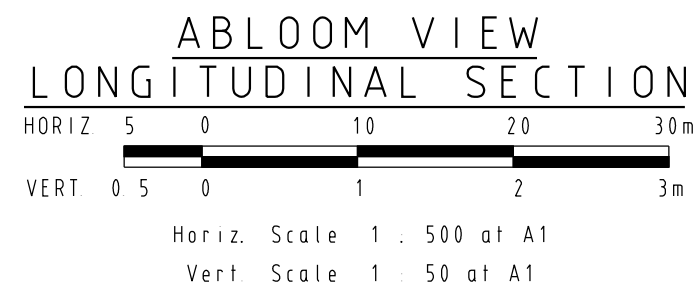
• TOWN PLANNERS
• CIVIL ENGINEERS
• SURVEYORS

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Rd.
Phone(03) 9697 8000
Fax(03) 9697 8099

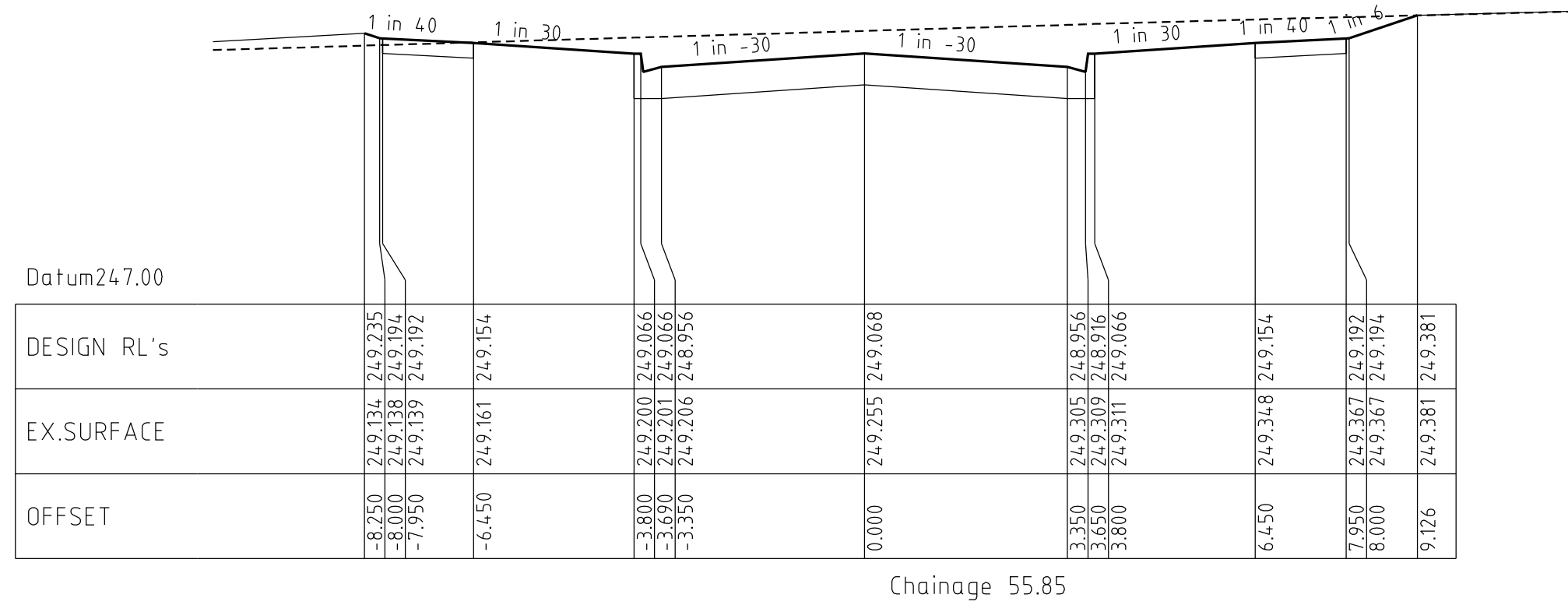
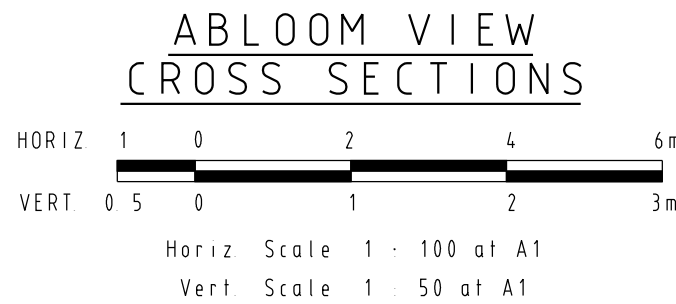
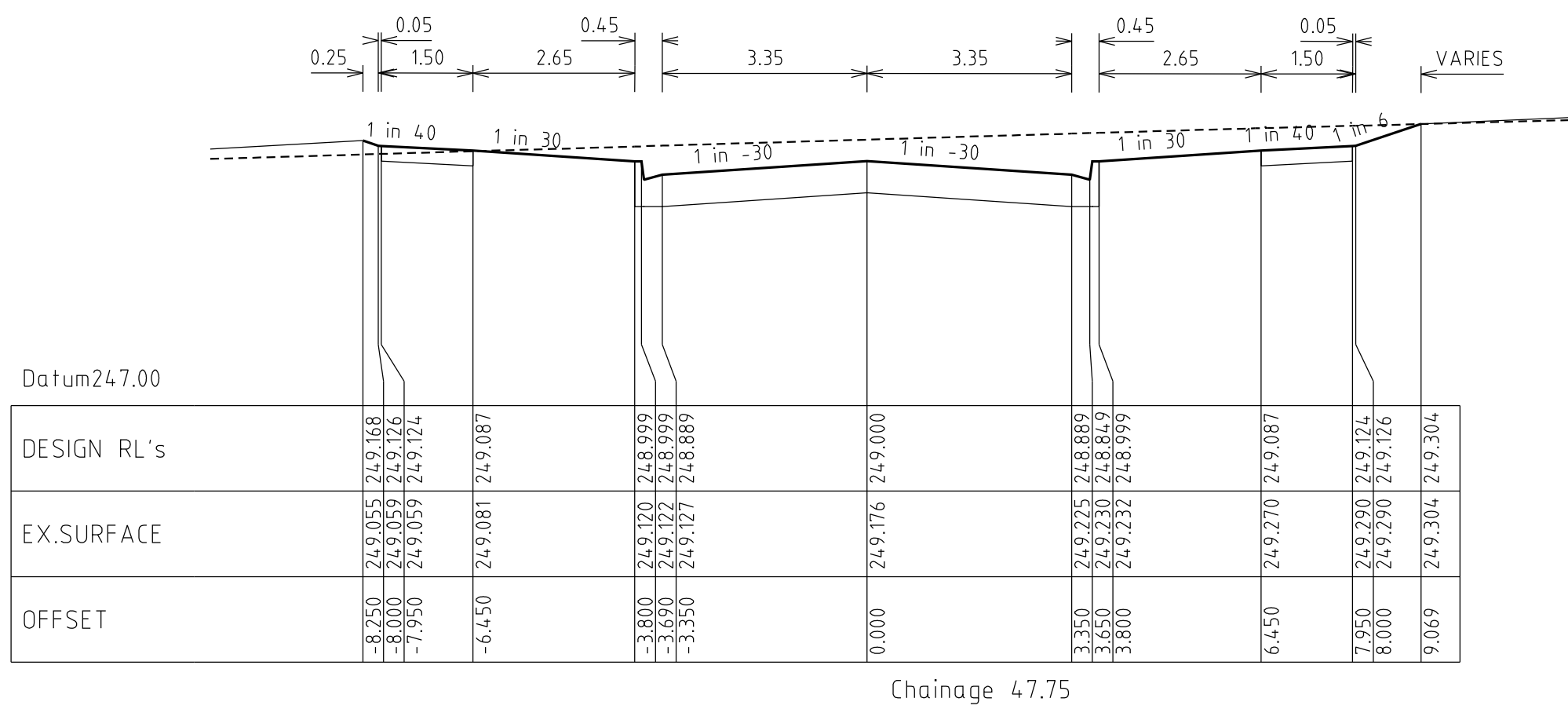
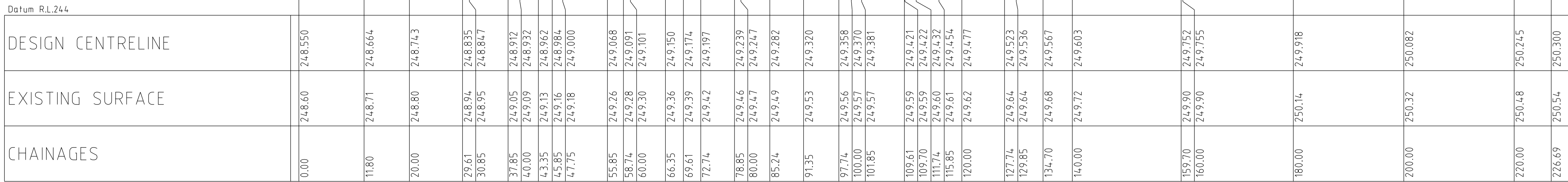
• Project Managers
• Urban Designers
• Structural Engineers



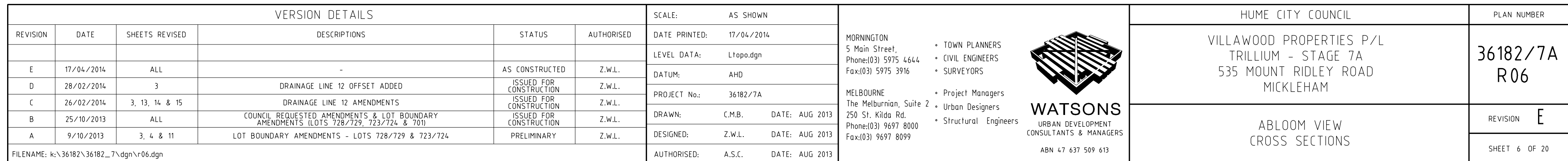
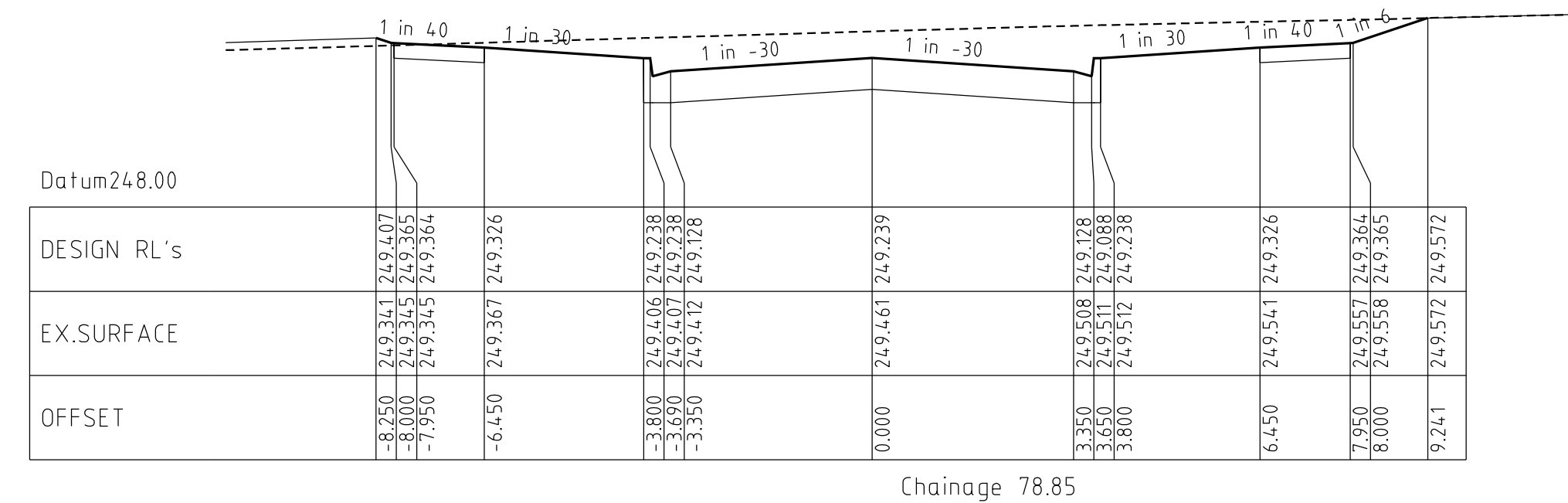
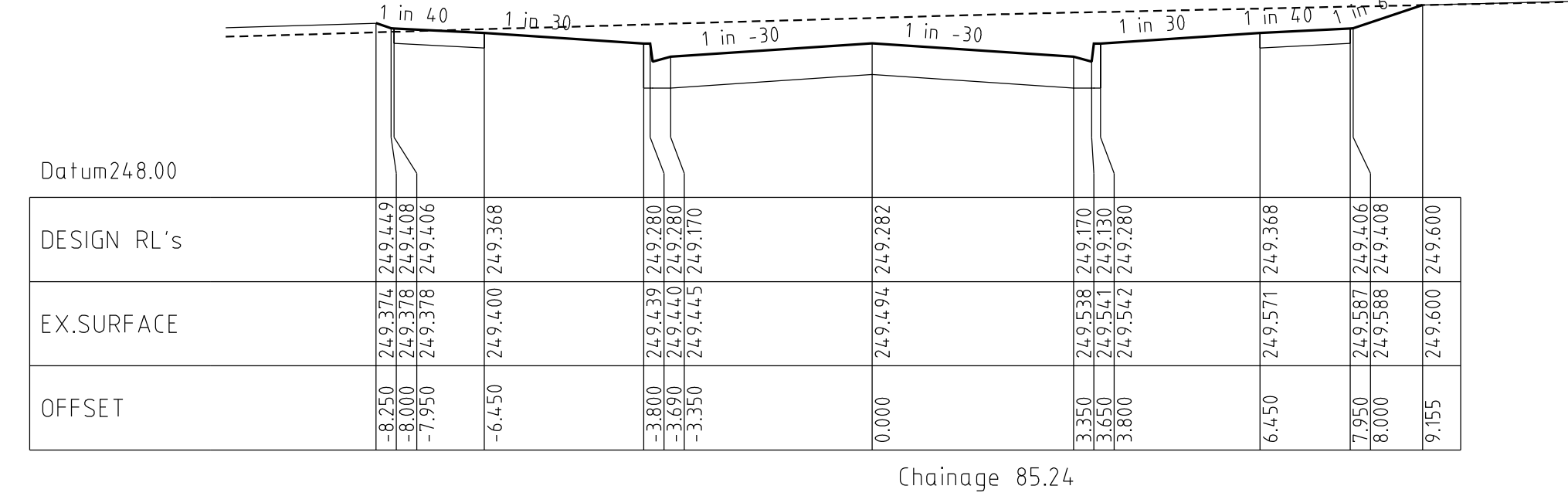
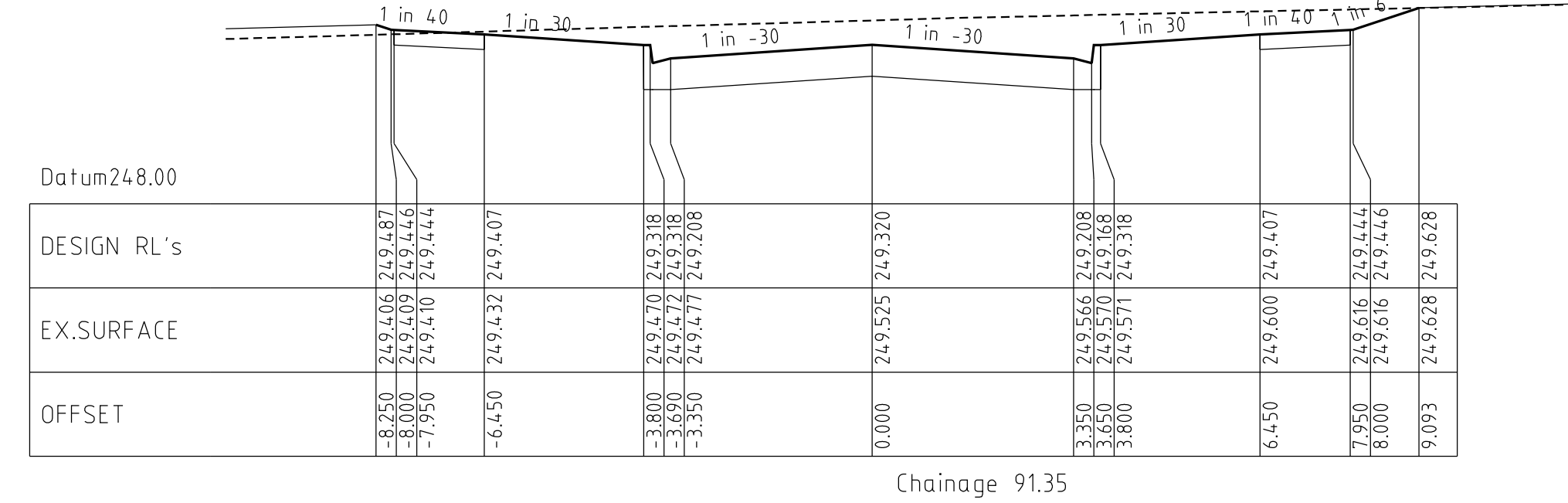
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/7A R04
INTERSECTION DETAIL, LIP OF KERB PROFILES & CURVE SETOUT TABLE		REVISION E
		SHEET 4 OF 20

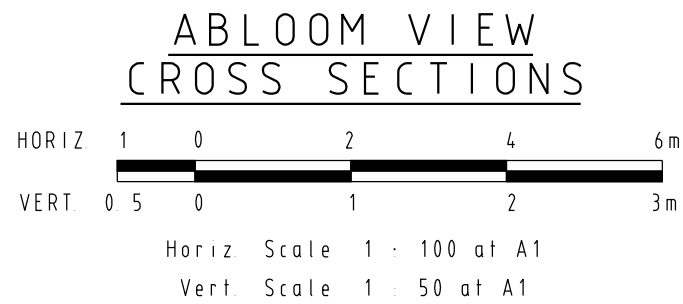
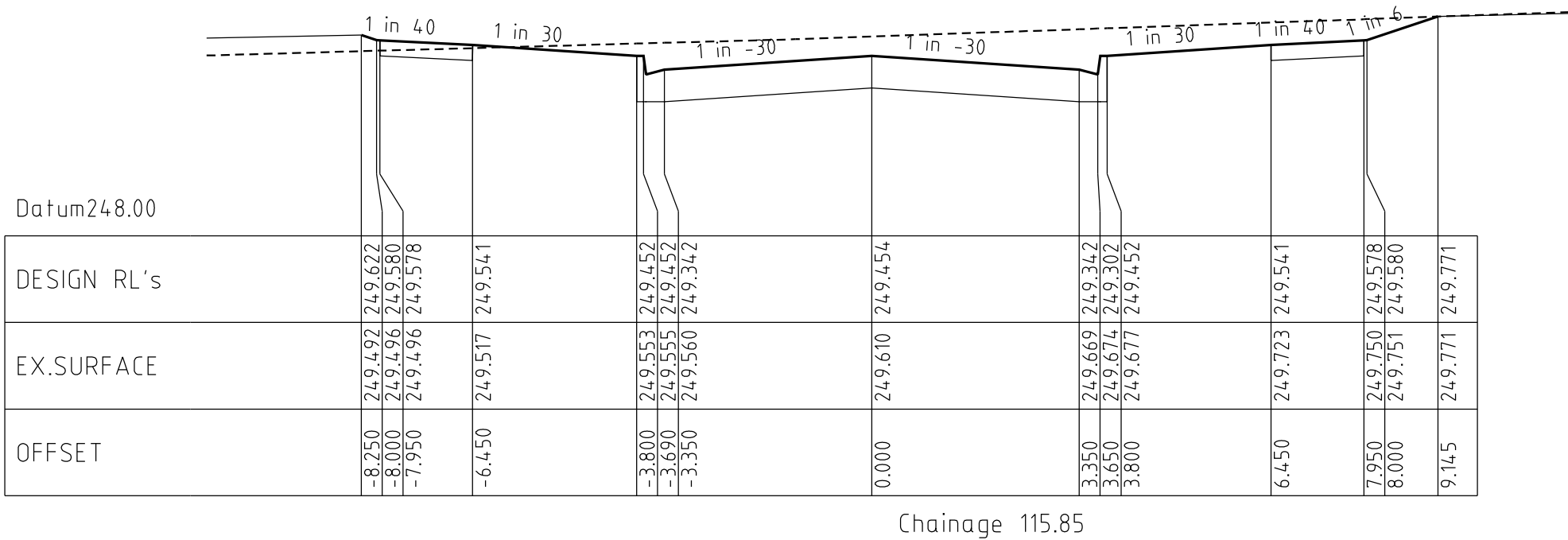
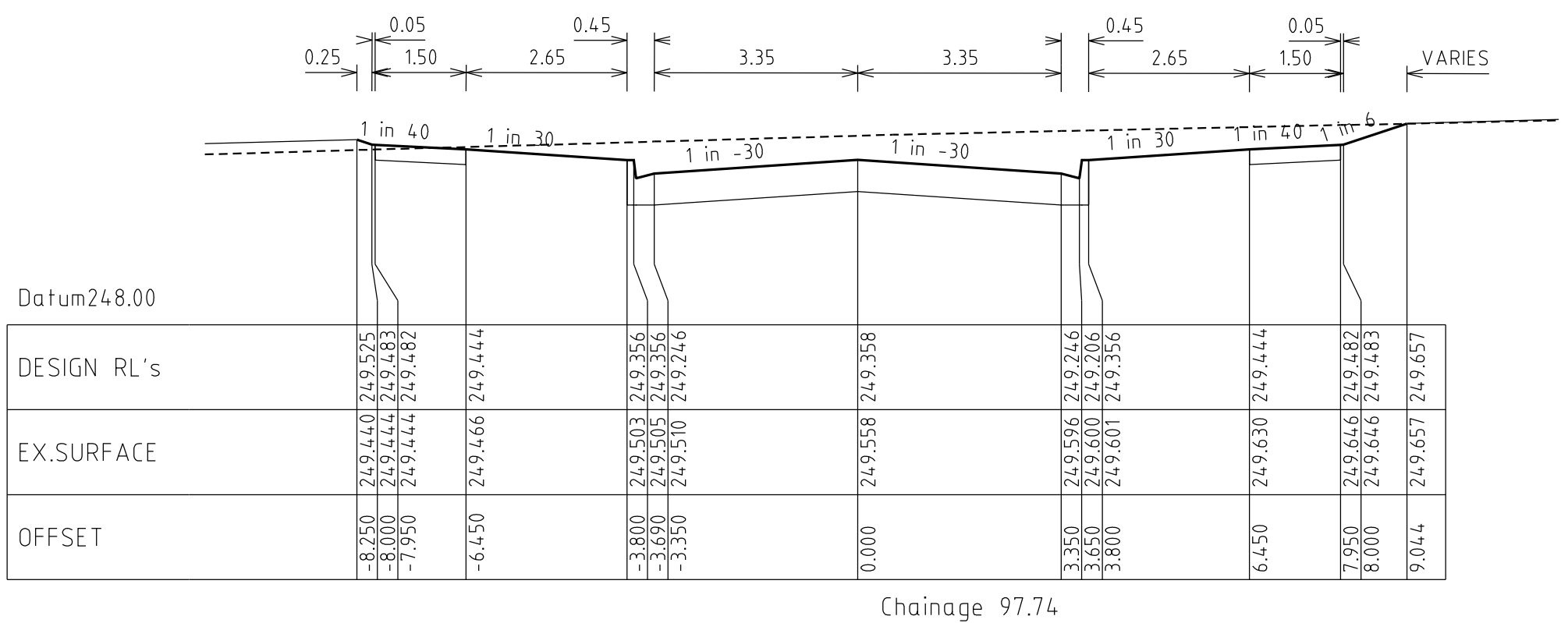
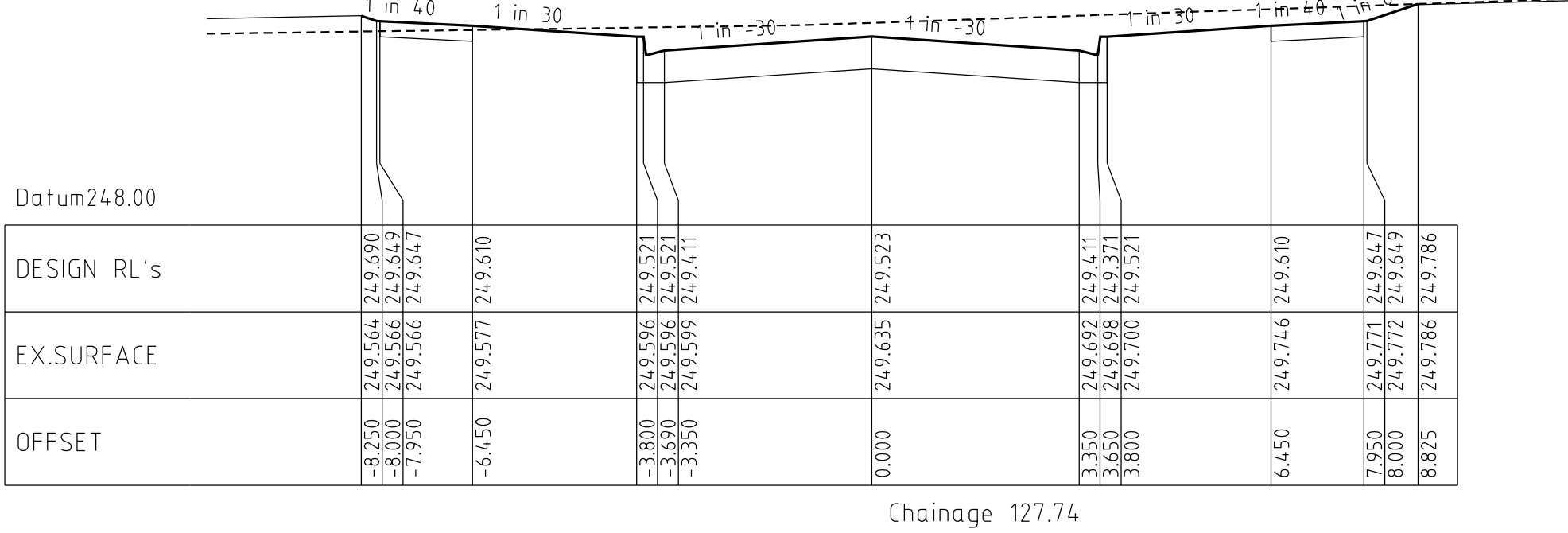
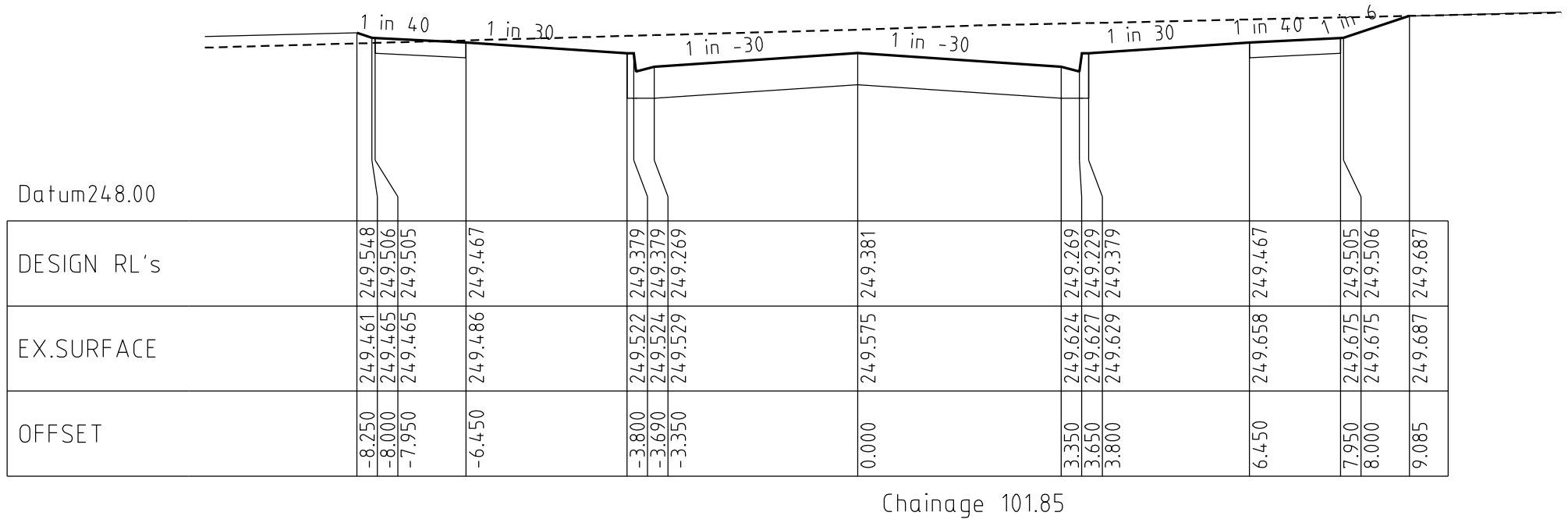
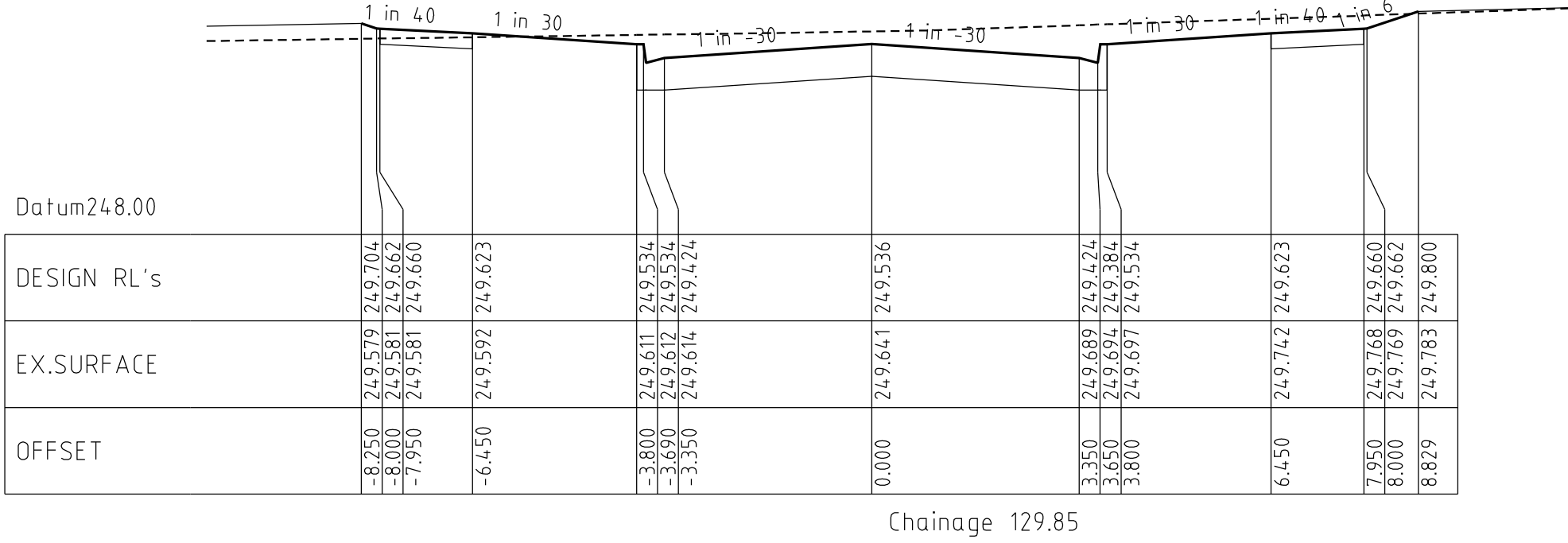
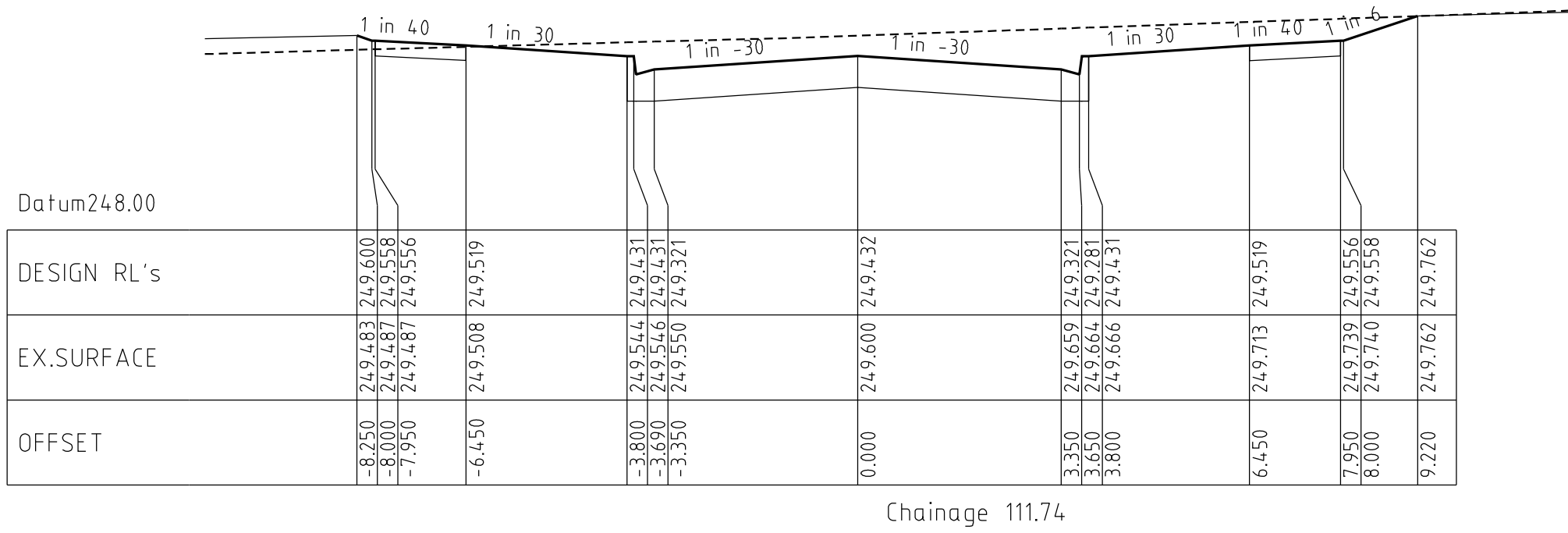


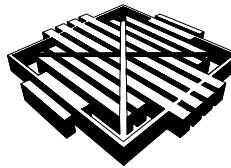
Horizontal Geometry
Vertical Grade
VC length



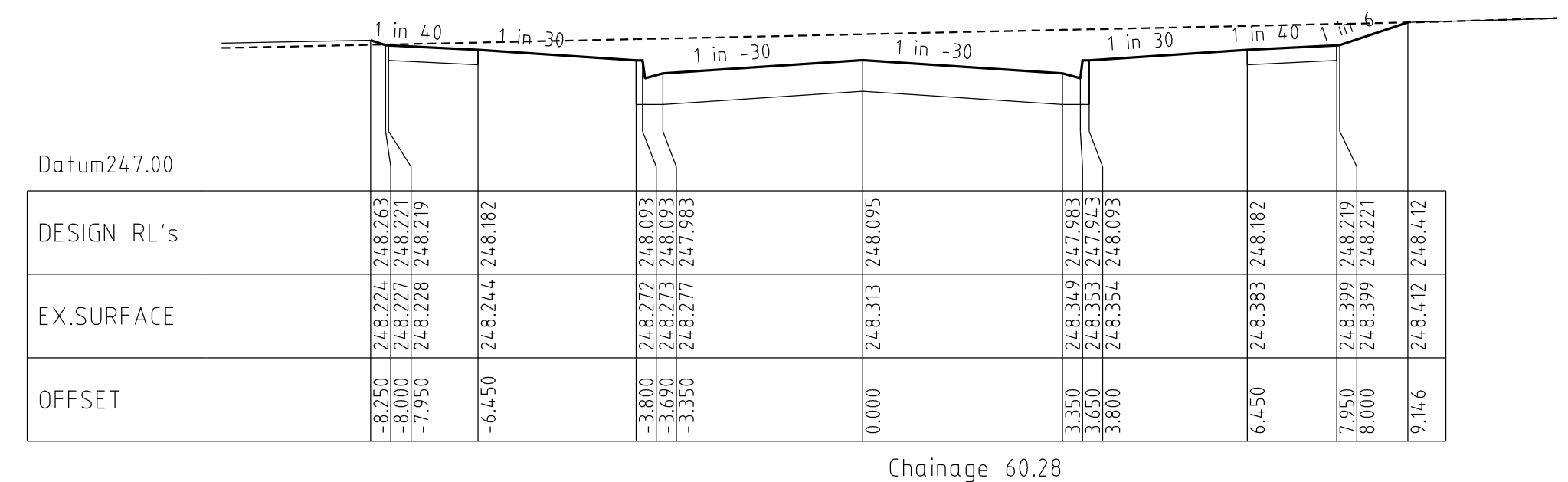
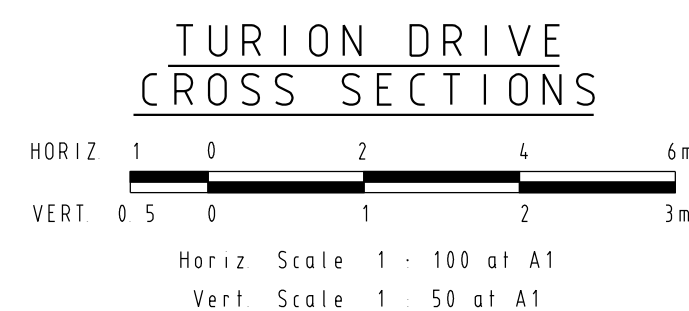
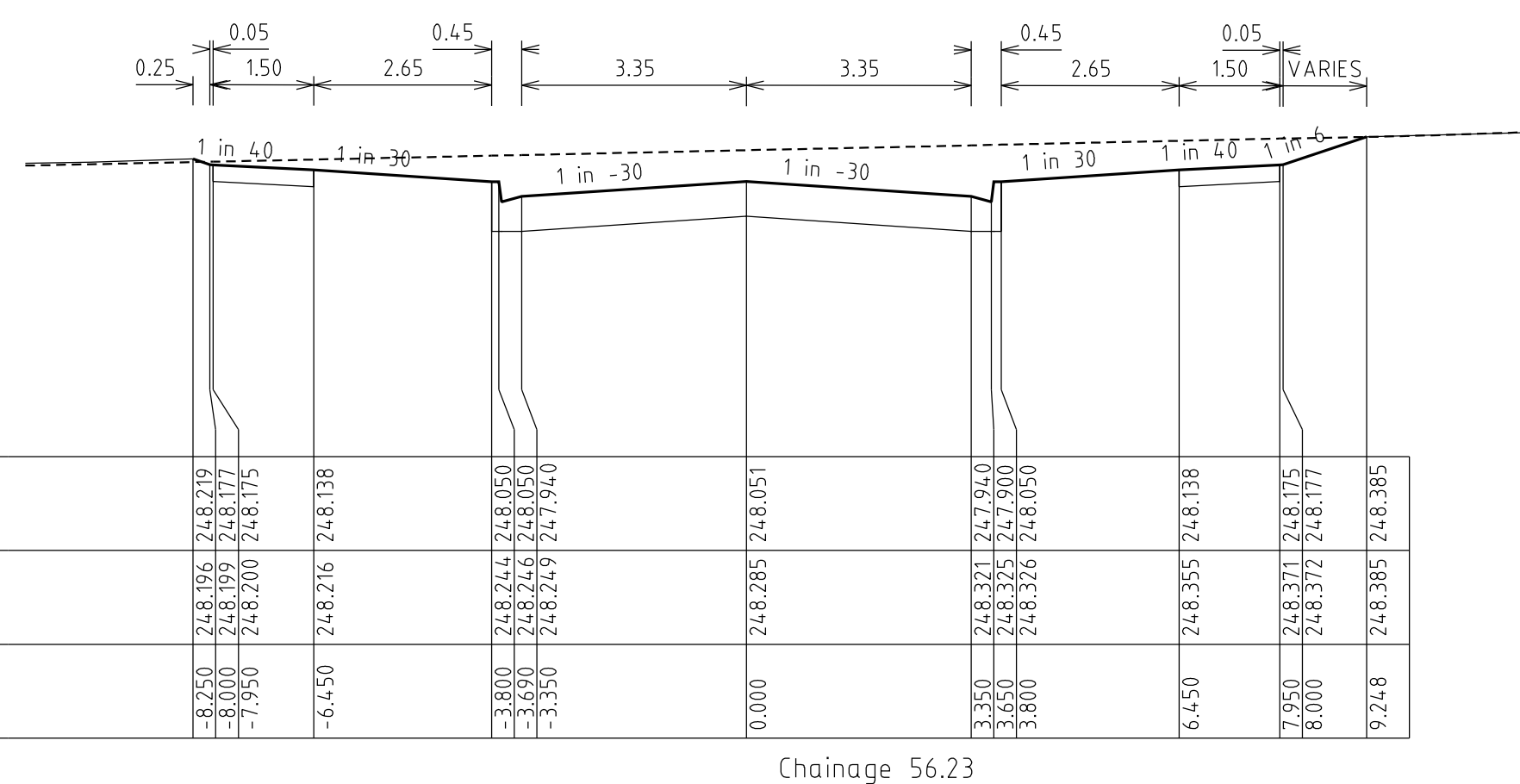
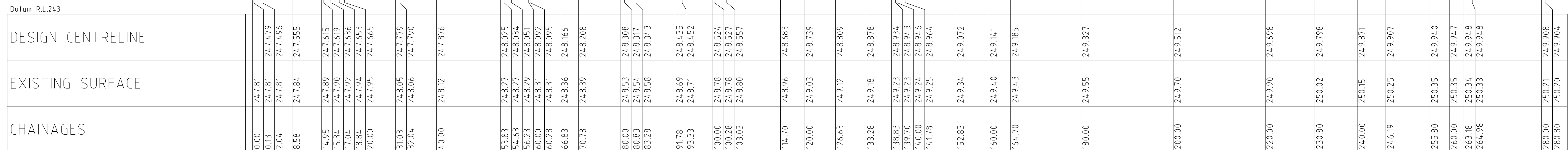
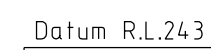
VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL			PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 17/04/2014	MORNINGTON 5 Main Street, Phone:(03) 5975 4644 Fax:(03) 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 599 613	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R05
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA: Ltopo.dgn				REVISION E	
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM: AHD					
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.: 36182/7A					
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN: C.M.B. DATE: AUG 2013	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099	Project Managers Urban Designers Structural Engineers		ABLOOM VIEW LONGITUDINAL & CROSS SECTIONS	
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED: Z.W.L. DATE: AUG 2013					SHEET 5 OF 20
FILENAME: k:\36182\36182_7.dgn\r05.dgn						AUTHORISED: A.S.C. DATE: AUG 2013					



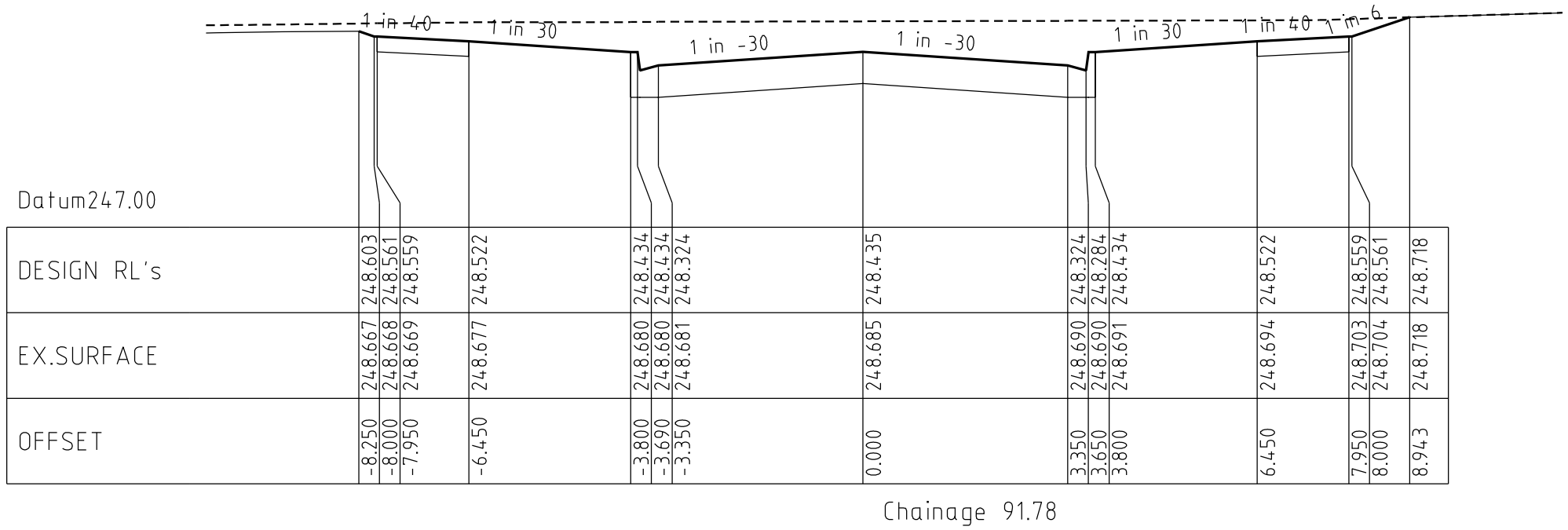
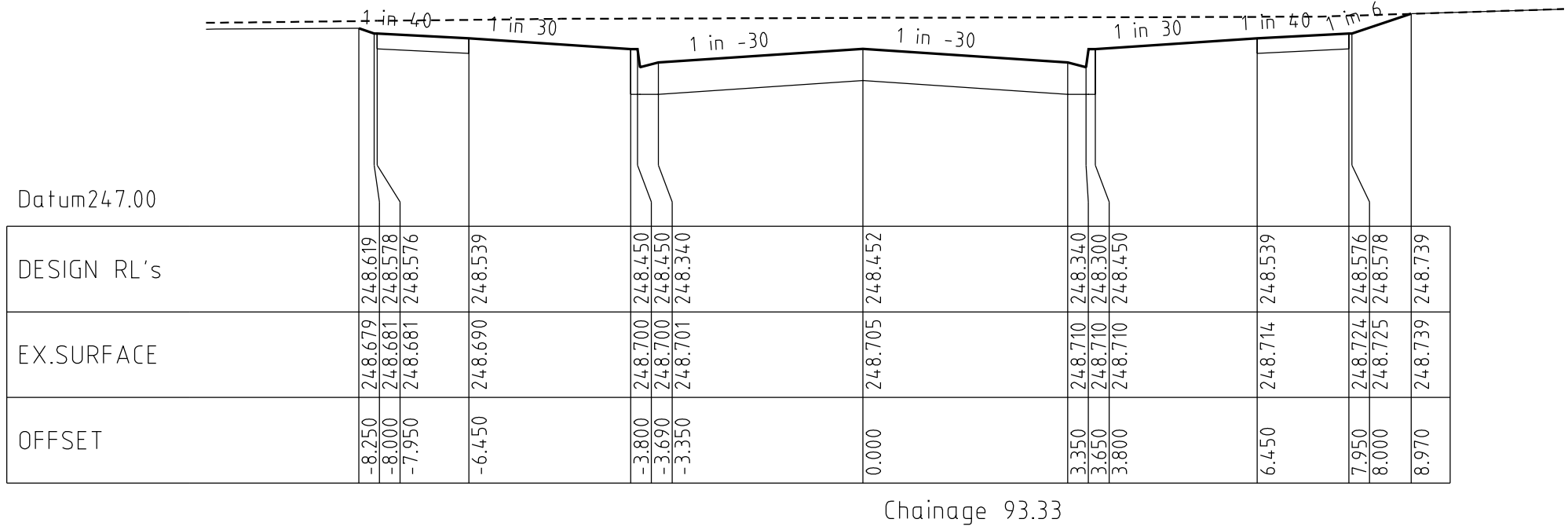
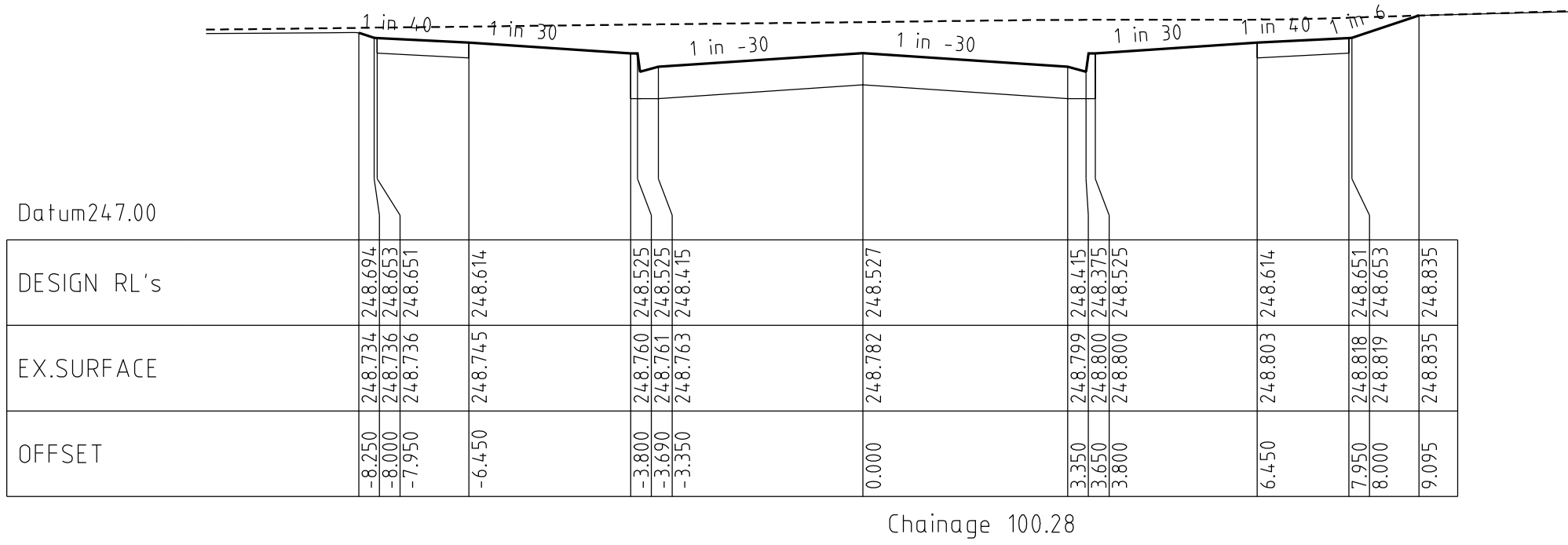
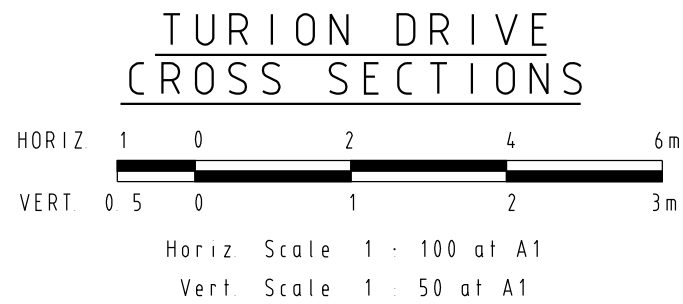
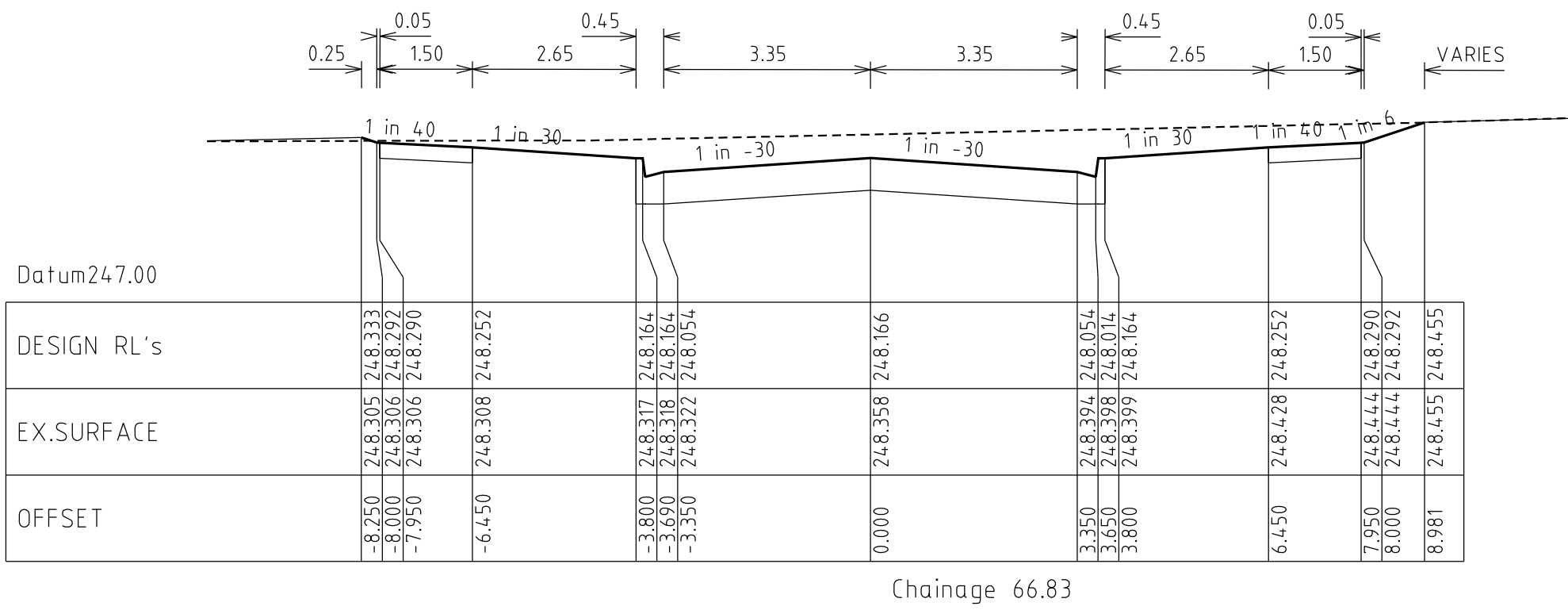
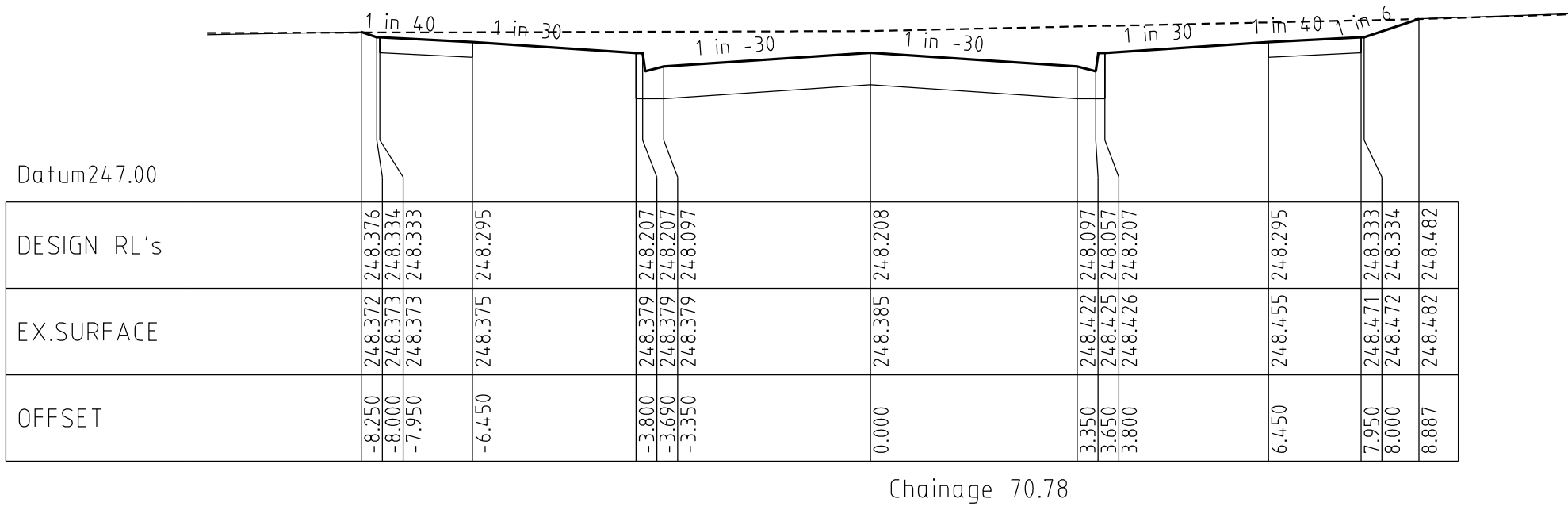
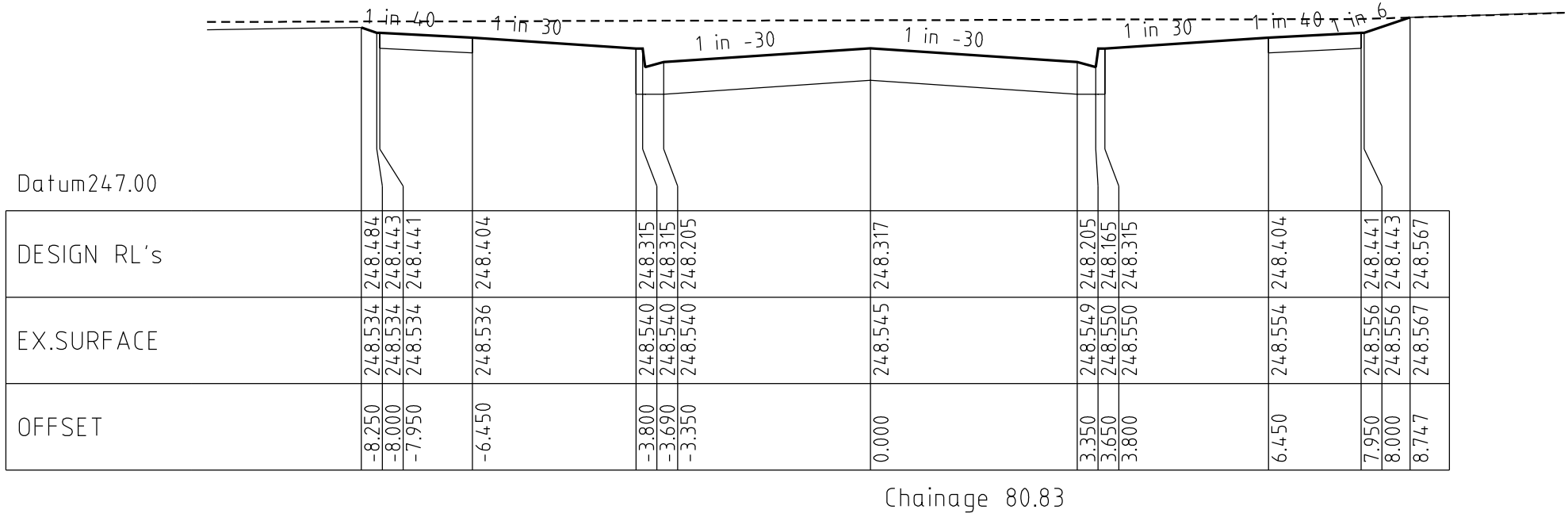
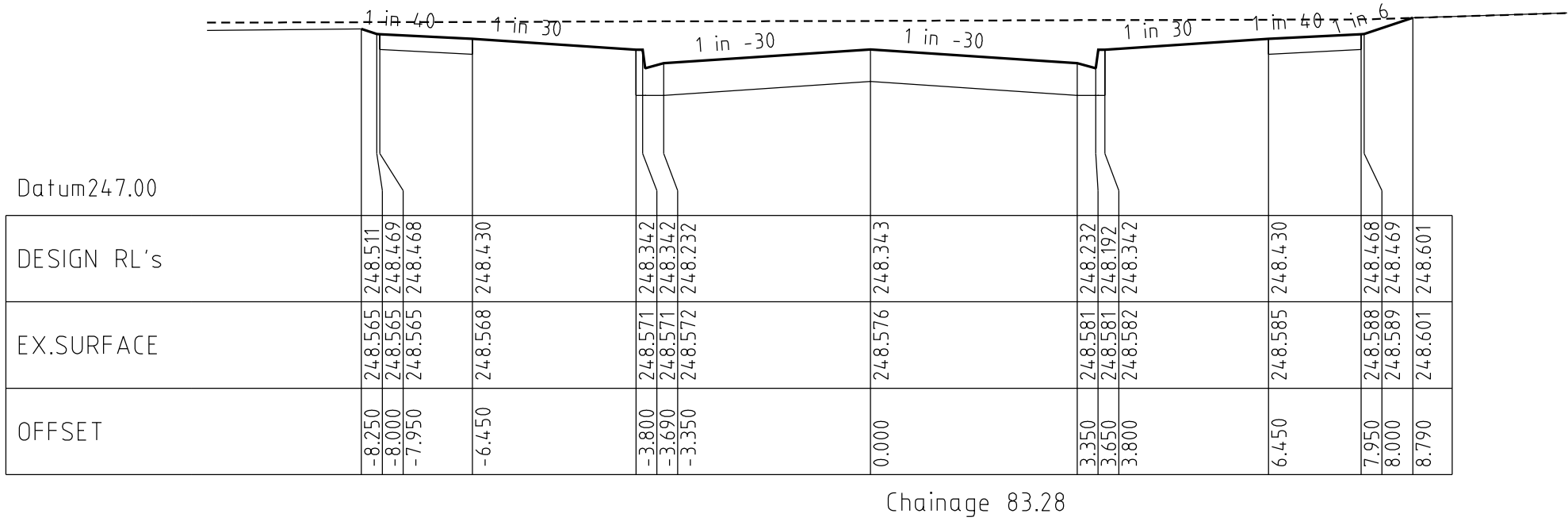


VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014	MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613		36182/7A R07
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	Ltopo.dgn			
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD			
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.:	36182/7A			
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A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013	ABLOOM VIEW CROSS SECTIONS		REVISION
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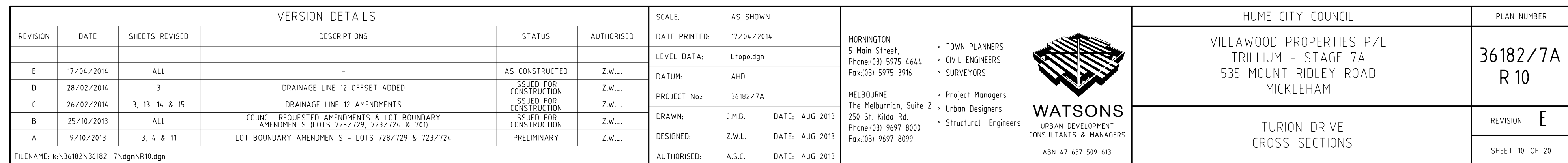
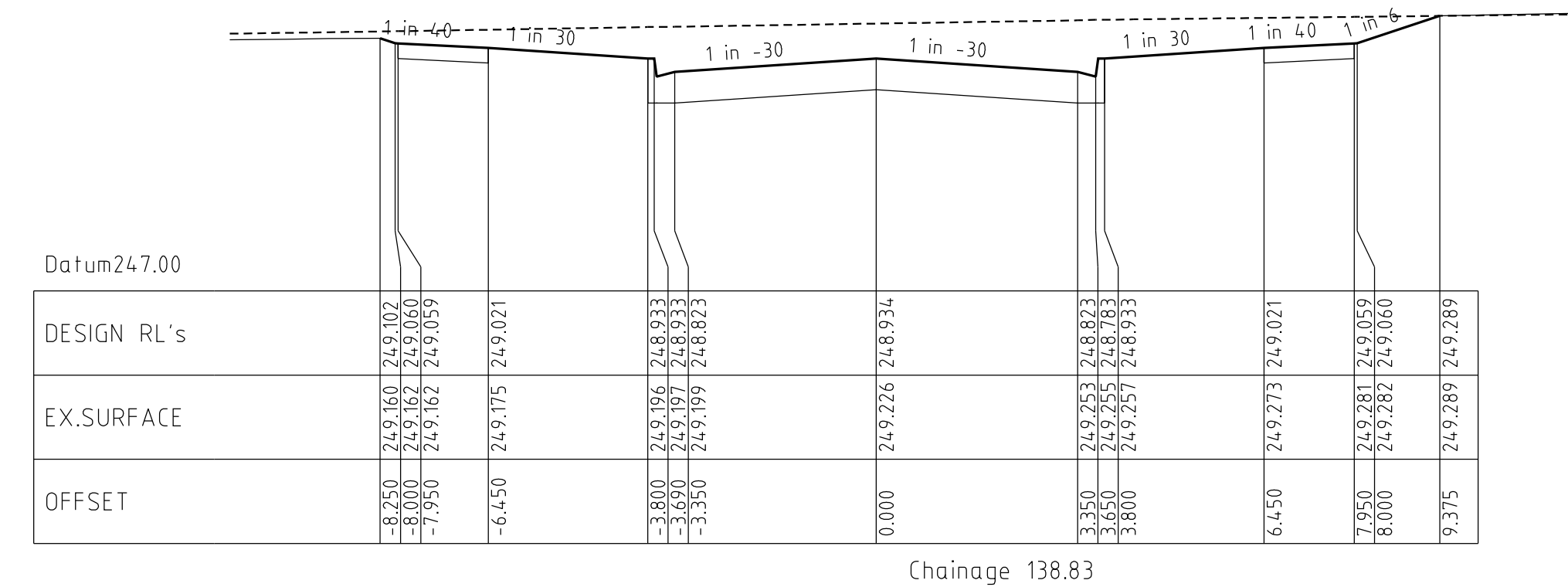
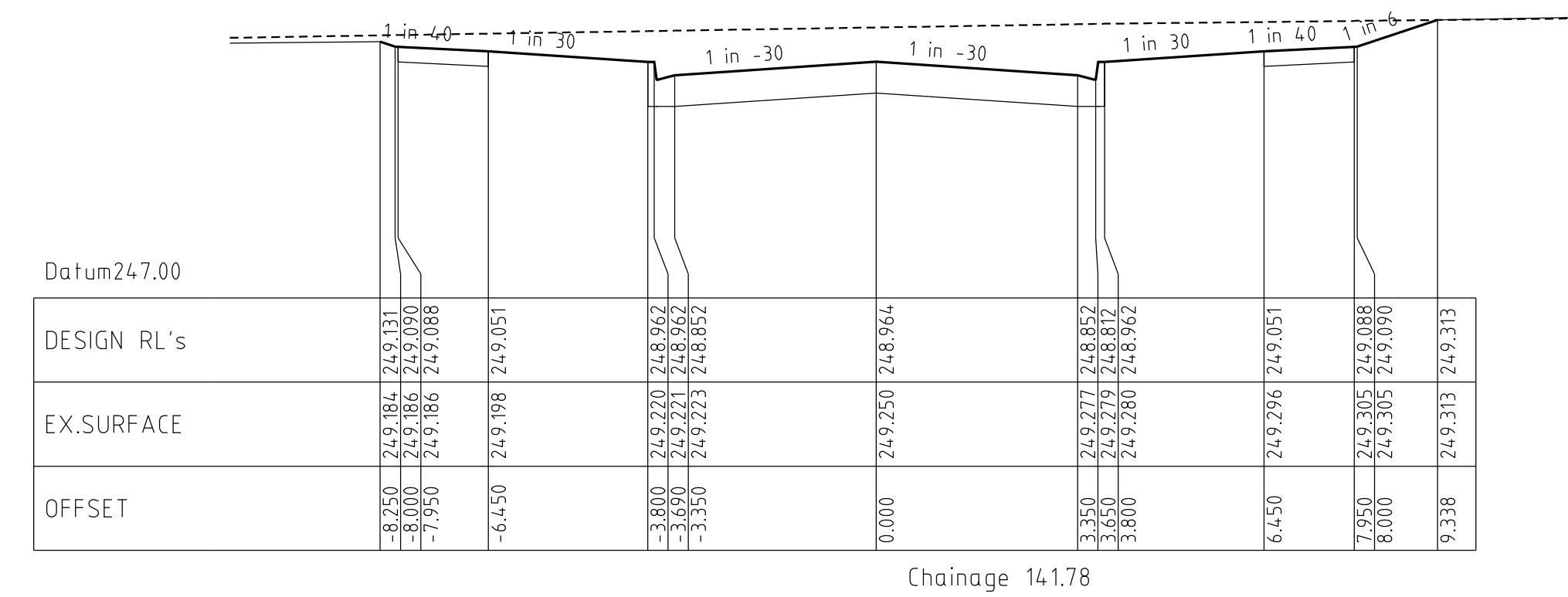
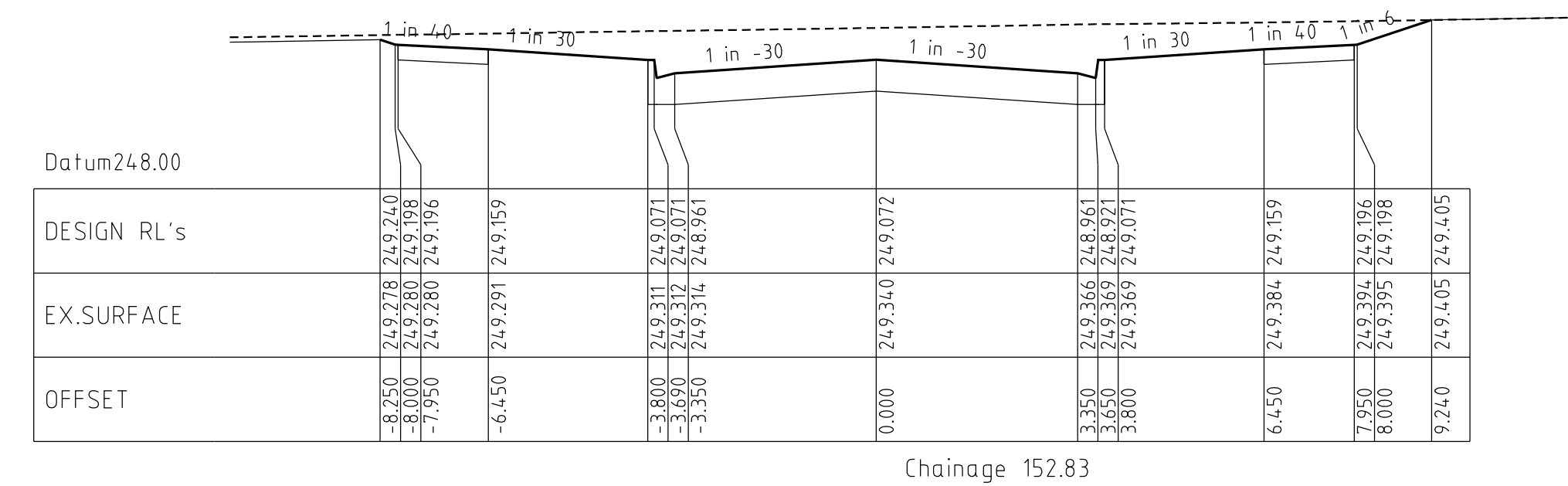
HORIZ 5 0 10 20 30m
VERT 0 5 1 2 3m
Horiz. Scale 1 : 500 at A1
Vert. Scale 1 : 50 at A1

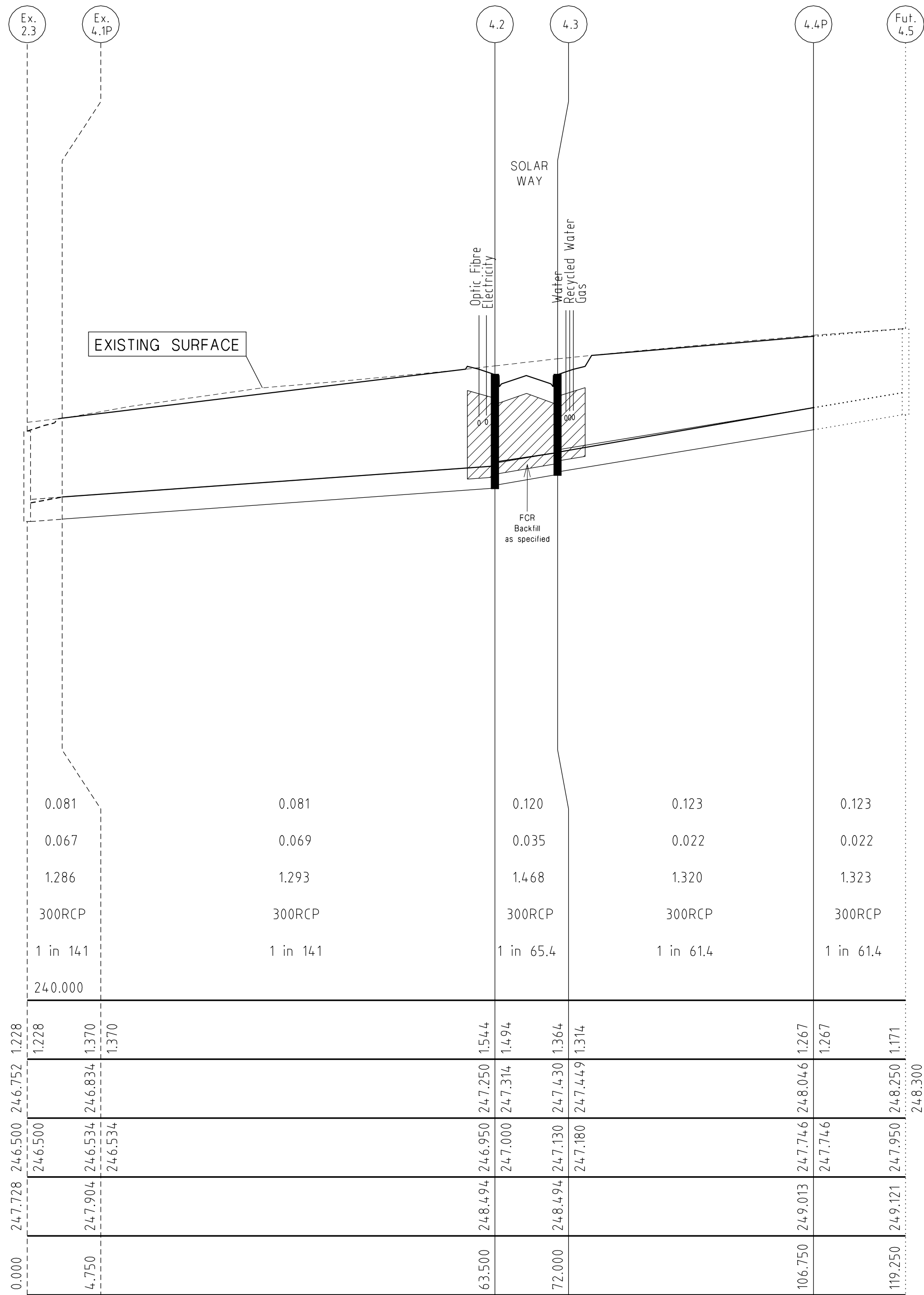
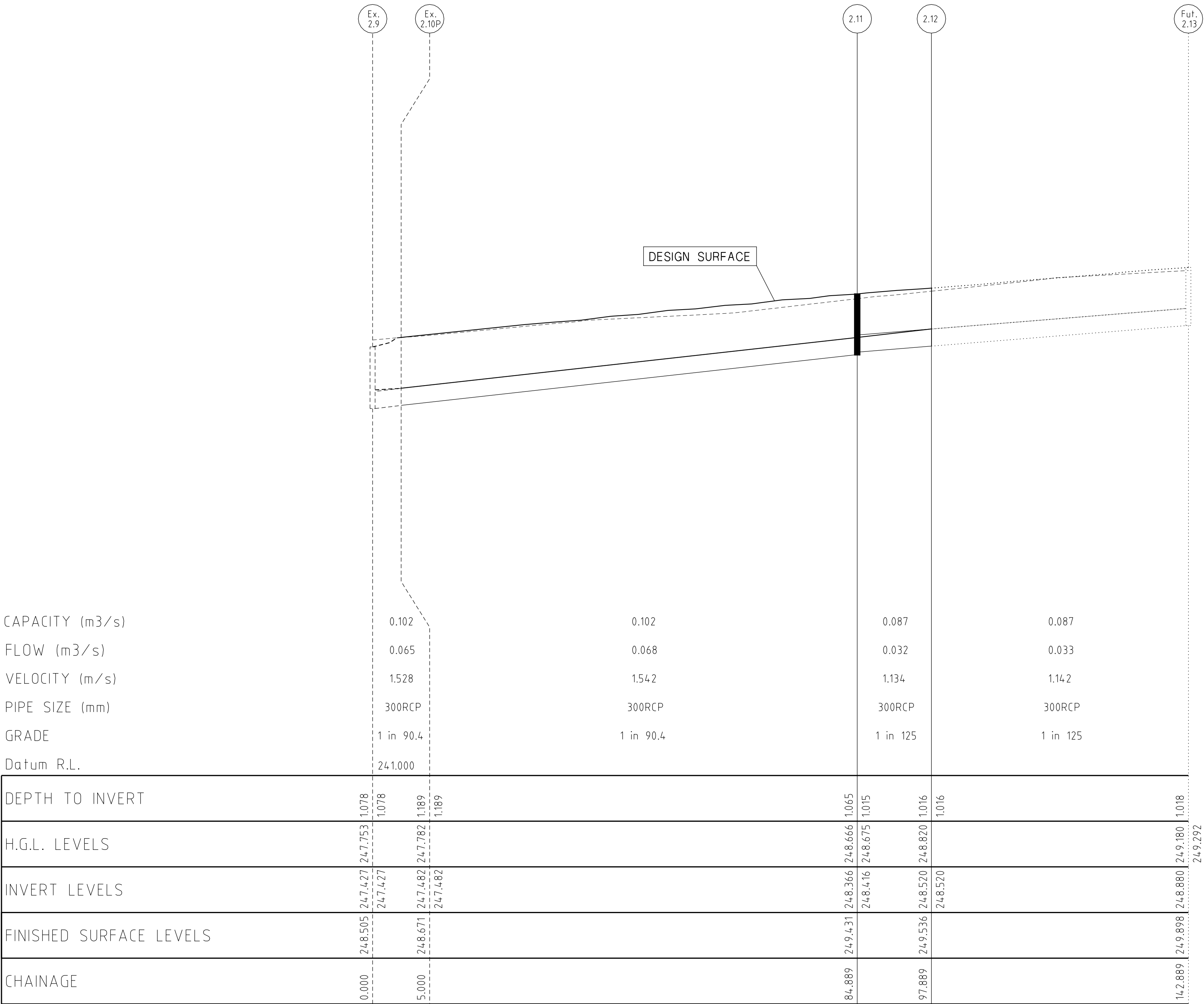


VERSION DETAILS						SCALE: AS SHOWN			HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 17/04/2014	LEVEL DATA: L1topo.dgn		MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R08
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.				* TOWN PLANNERS	 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS 613 637 509 613	REVISION E
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.		DATUM: AHD		* CIVIL ENGINEERS		
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No: 36182/7A			* SURVEYORS		
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN: C.M.B. DATE: AUG 2013		* Project Managers			
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED: Z.W.L. DATE: AUG 2013		* Urban Designers			
FILENAME: k:\36182\36182_7v.dgn\08.dgn								* Structural Engineers	TURION DRIVE LONGITUDINAL & CROSS SECTIONS		SHEET 8 OF 20



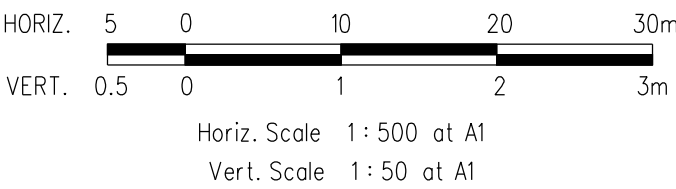
VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 17 637 509 613 VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM TURION DRIVE CROSS SECTIONS		PLAN NUMBER				
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 17/04/2014	LEVEL DATA: L1topo.dgn			DATUM: AHD	PROJECT No.: 36182/7A	DRAWN: C.M.B. DATE: AUG 2013	DESIGNED: Z.W.L. DATE: AUG 2013	AUTHORISED: A.S.C. DATE: AUG 2013
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B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.									
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.									
FILENAME: k:\36182\36182_7\1.dgn\09.dgn														
REVISION E														
SHEET 9 OF 20														





NOTE:
LOCATION OF GAS, WATER,
TELSTRA & ELECTRICITY
SERVICES INDICATIVE ONLY

DRAINAGE LONGITUDINAL SECTIONS



VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.

SCALE:	AS SHOWN
DATE PRINTED:	17/04/2014
LEVEL DATA:	Ltopo.dgn
DATUM:	AHD
PROJECT No.:	36182/7A
DRAWN:	C.M.B. DATE: AUG 2013
DESIGNED:	Z.W.L. DATE: AUG 2013
AUTHORISED:	A.S.C. DATE: AUG 2013

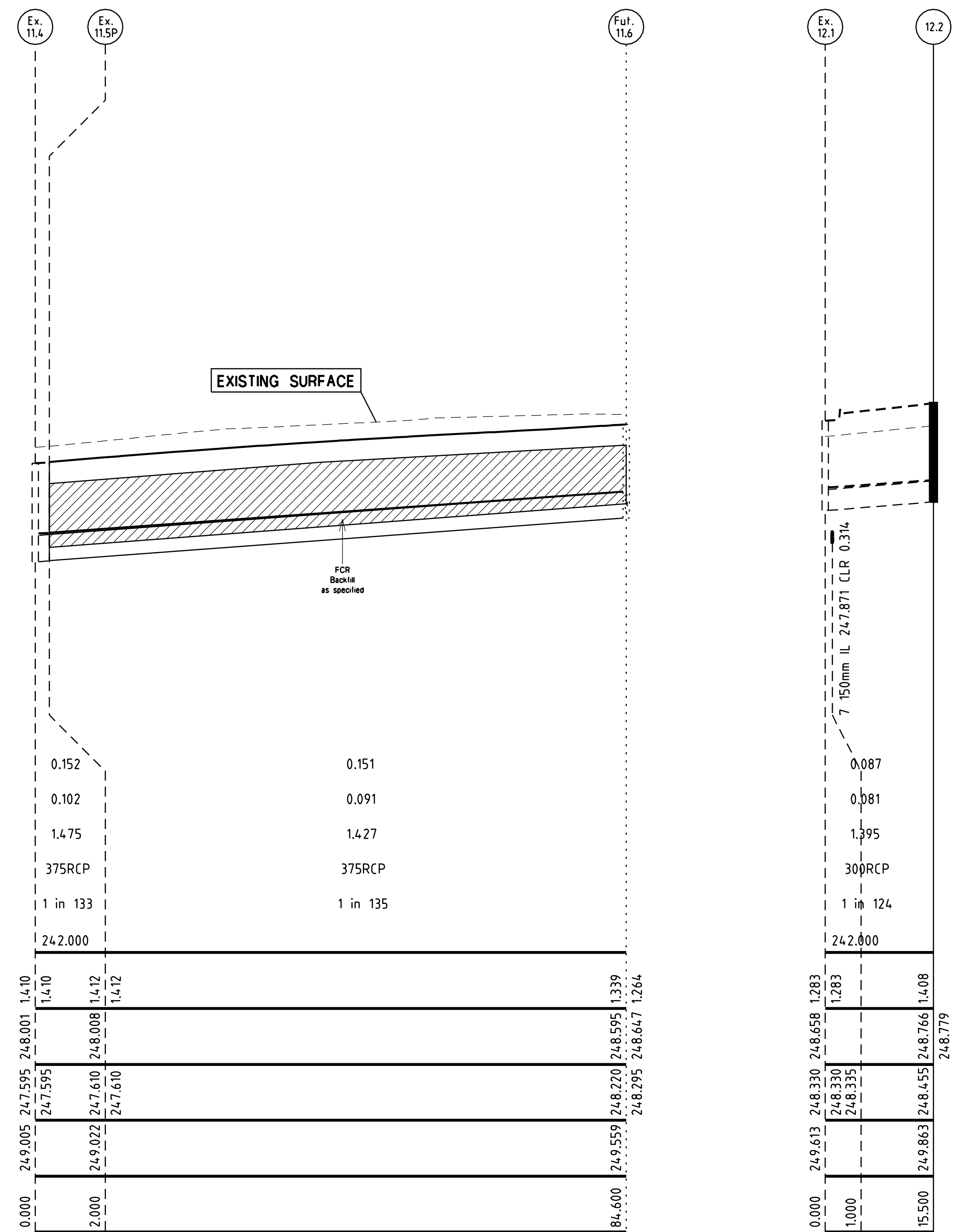
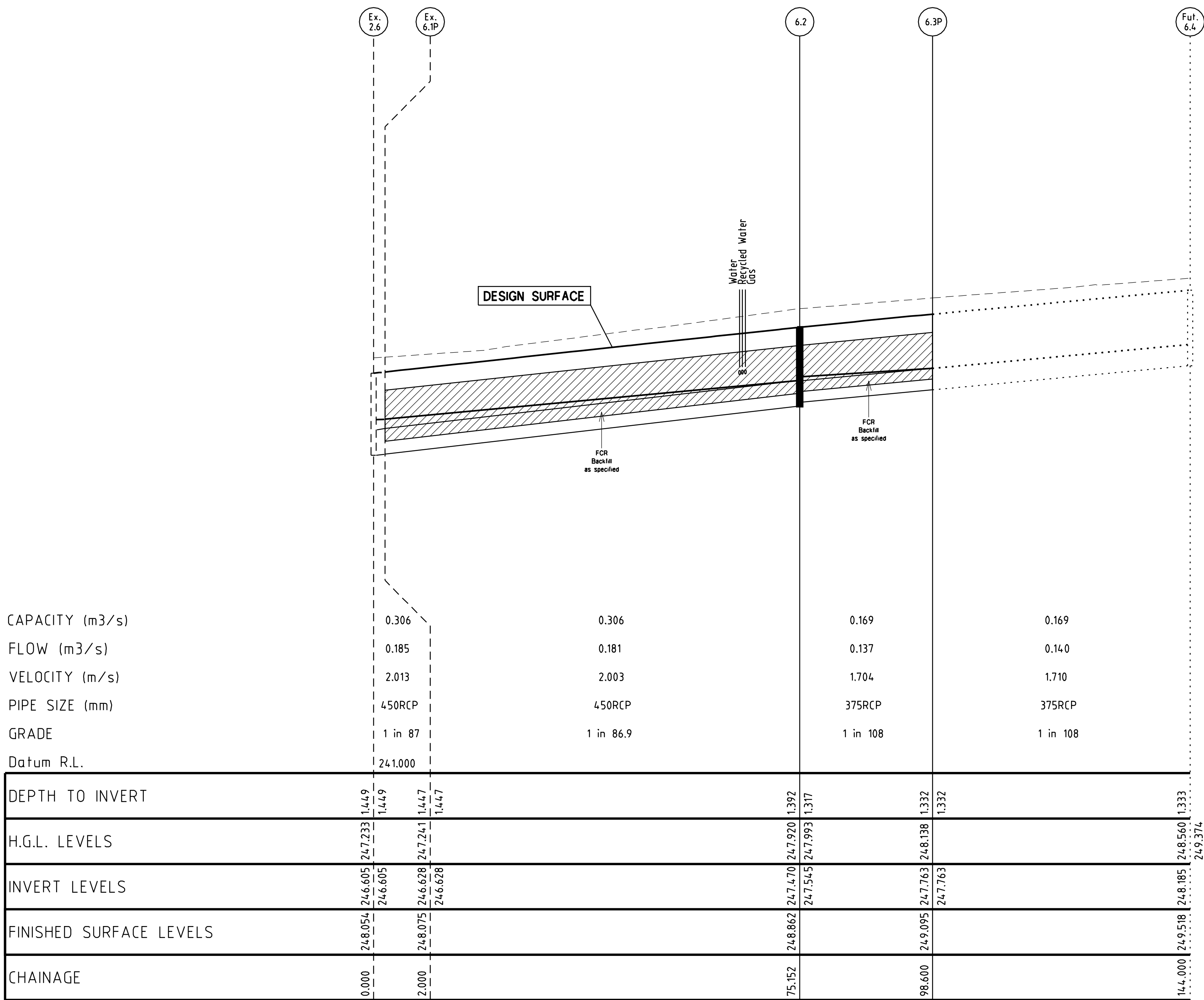
MORNINGTON
5 Main Street,
Phone(03) 5975 4644
Fax(03) 5975 3916

MELBOURNE
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250 St. Kilda Rd.
Phone(03) 9697 8000
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- CIVIL ENGINEERS
- SURVEYORS
- Project Managers
- Urban Designers
- Structural Engineers

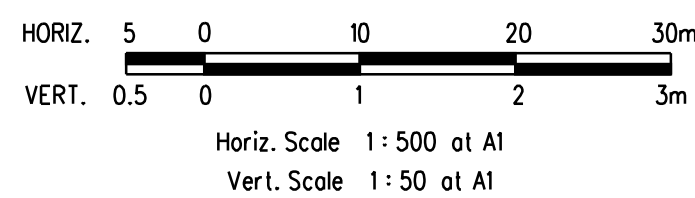
WATSONS
URBAN DEVELOPMENT
CONSULTANTS & MANAGERS
ABN 47 637 509 613

HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM		36182/7A R12
DRAINAGE LONGITUDINAL SECTION		REVISION E
		SHEET 12 OF 20



NOTE:
LOCATION OF GAS, WATER,
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DRAINAGE LONGITUDINAL SECTIONS



VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.

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SCALE:	AS SHOWN
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PROJECT No:	36182/7A
DRAWN:	C.M.B. DATE: AUG 2013
DESIGNED:	Z.W.L. DATE: AUG 2013
AUTHORISED:	A.S.C. DATE: AUG 2013

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Phone(03) 5975 4644
Fax(03) 5975 3916

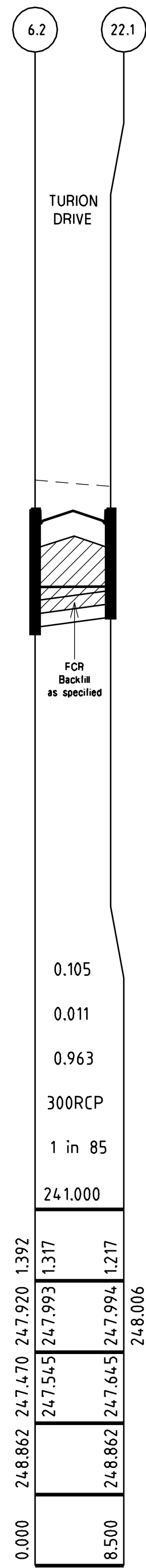
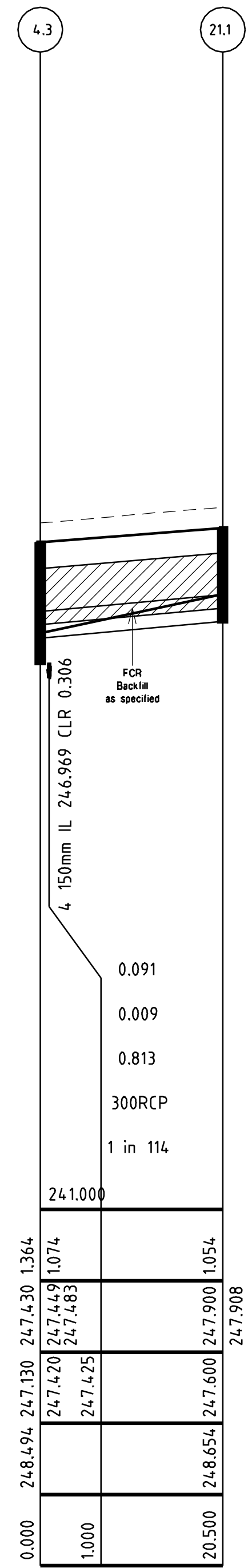
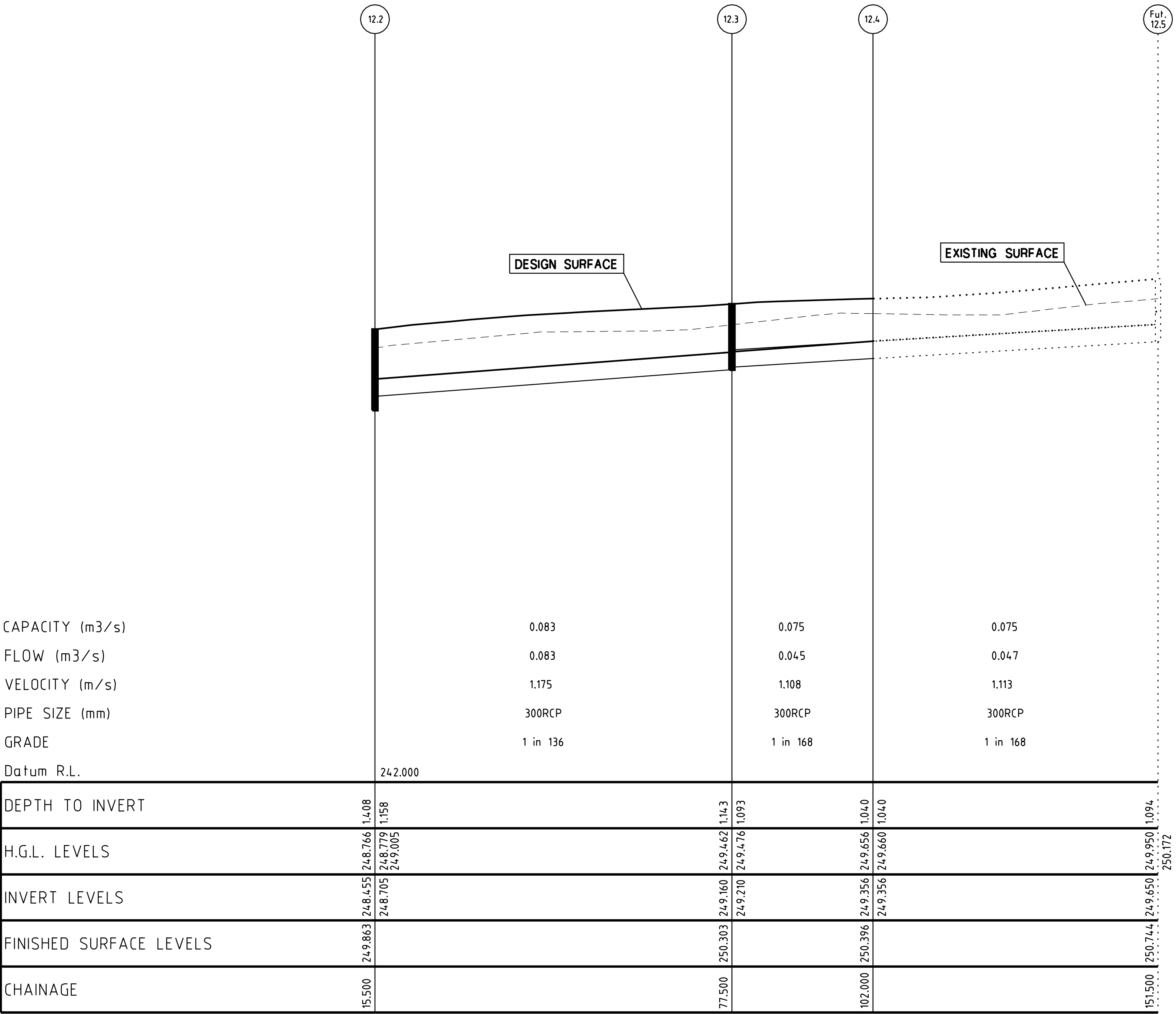
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• SURVEYORS

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250 St. Kilda Rd.
Phone(03) 9697 8000
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• Project Managers
• Urban Designers
• Structural Engineers

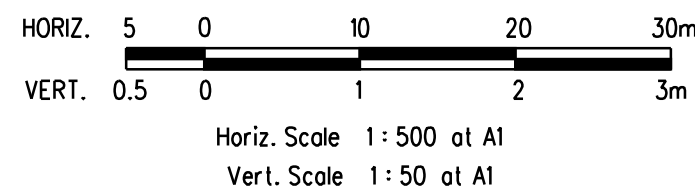


HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R13
DRAINAGE LONGITUDINAL SECTION	REVISION E
	SHEET 13 OF 20



NOTE:
LOCATION OF GAS, WATER,
TELSTRA & ELECTRICITY
SERVICES INDICATIVE ONLY

DRAINAGE LONGITUDINAL SECTIONS



VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 7011)	ISSUED FOR CONSTRUCTION	Z.W.L.
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.

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SCALE:	AS SHOWN
DATE PRINTED:	17/04/2014
LEVEL DATA:	Ltopo.dgn
DATUM:	AHD
PROJECT No.:	36182/7A
DRAWN:	C.M.B. DATE: AUG 2013
DESIGNED:	Z.W.L. DATE: AUG 2013
AUTHORISED:	A.S.C. DATE: AUG 2013

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Phone(03) 9697 8000
Fax(03) 9697 8099

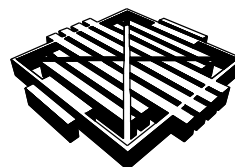
- TOWN PLANNERS
- CIVIL ENGINEERS
- SURVEYORS
- Project Managers
- Urban Designers
- Structural Engineers

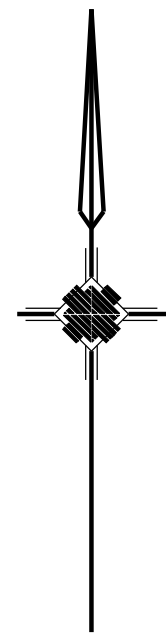
WATSONS
URBAN DEVELOPMENT
CONSULTANTS & MANAGERS
ABN 47 637 509 613

HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R14
DRAINAGE LONGITUDINAL SECTION	REVISION E
	SHEET 14 OF 20

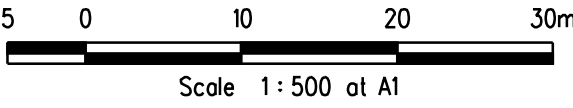
PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
Fut. 2.13 JP	Future	3658.077	9782.76			300	248.88	249.898	1.018	Future Pit
2.12 PC	-	3702.678	9776.78	300	248.52	300	248.52	249.536	1.016	End Capped (Future Pipe to Pipe Connection)
2.11 JP	900 x 600	3715.563	9775.053	300	248.416	300	248.366	249.431	1.065	GAA014: SD275(CIRCULAR PIT LID)
Ex. 2.10 PC	-	3794.744	9764.436	300	247.482	300	247.482	248.671	1.189	Pipe to Pipe Connection
Ex. 2.9 GP	Existing	3799.699	9763.772	300	247.427			248.505	1.078	Existing Pit
Fut. 4.5 JP	Future	3669.639	9707.557			300	247.95	249.121	1.171	Future Pit
4.4 PC	-	3682.028	9705.896	300	247.746	300	247.746	249.013	1.267	End Capped (Future Pipe to Pipe Connection)
4.3 SEP	900 x 600	3716.47	9701.278	300	247.18	300	247.13	248.494	1.364	GAA012: SD275(CIRCULAR PIT LID)
4.2 SEP	900 x 600	3724.894	9700.148	300	247	300	246.95	248.494	1.544	GAA012: SD275(CIRCULAR PIT LID)
Ex. 4.1 PC	-	3783.123	9692.341	300	246.534	300	246.534	247.904	1.37	Pipe to Pipe Connection
Ex. 2.3 SEP	Existing	3787.831	9691.71	300	246.5			247.728	1.228	Existing Pit
Fut. 6.4 SEP	Future	3642.778	9754.795			375	248.185	249.518	1.333	Future Pit
6.3 PC	-	3687.775	9748.762	375	247.763	375	247.763	249.095	1.332	End Capped (Future Pipe to Pipe Connection)
6.2 SEP	900 x 600	3711.015	9745.646	375	247.545	450	247.47	248.862	1.392	GAA012: SD275(CIRCULAR PIT LID)
Ex. 6.1 PC	-	3783.518	9735.925	450	246.628	450	246.628	248.075	1.447	Pipe to Pipe Connection
Ex. 2.6 SEP	Existing	3785.501	9735.659	450	246.605			248.054	1.449	Existing Pit
Fut. 11.6 SEP	900 x 600	3716.209	9814.567	300	248.295	375	248.22	249.559	1.339	Future Pit
Ex. 11.5 PC	-	3798.076	9803.591	375	247.61	375	247.61	249.022	1.412	Pipe to Pipe Connection
Ex. 11.4 SEP	Existing	3800.059	9803.325	375	247.595			249.005	1.41	Existing Pit
Fut. 12.5 JP	Future	3671.198	9847.592			300	249.65	250.744	1.094	Future Pit
12.4 PC	-	3720.259	9841.014	300	249.356	300	249.356	250.396	1.04	End Capped (Future Pipe to Pipe Connection)
12.3 JP	900 x 600	3744.542	9837.758	300	249.21	300	249.16	250.303	1.143	GAA014: SD275(CIRCULAR PIT LID)
12.2 JP	900 x 600	3805.992	9829.519	300	248.705	300	245.455	249.863	1.408	GAA014: SD275(CIRCULAR PIT LID)
Ex. 12.1 JP	Existing	3821.355	9827.459	300	248.33			249.613	1.283	Existing Pit
21.1 JP	900 x 600	3719.194	9721.596			300	247.6	248.654	1.054	GAA014: SD275(CIRCULAR PIT LID)
4.3 SEP	900 x 600	3716.47	9701.278	300	247.42			248.494	1.364	GAA012: SD275(CIRCULAR PIT LID)
22.1 SEP	900 x 600	3709.885	9737.222			300	247.645	248.862	1.217	GAA012: SD275(CIRCULAR PIT LID)
6.2 SEP	900 x 600	3711.015	9745.646	300	247.545			248.862	1.392	GAA012: SD275(CIRCULAR PIT LID)

- NOTE:
- xy setout to pit centre
 - setout level to pit cover level

VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099  WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613	HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014		VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R15	
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	Ltopo.dgn				REVISION E SHEET 15 OF 20
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD				
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No:	36182/7A				
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN:	C.M.B. DATE: AUG 2013				
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013				
FILENAME: k:\36182\36182_7.dgn\R15.dgn						AUTHORISED:	A.S.C. DATE: AUG 2013	DRAINAGE PIT SCHEDULE			



LINEMARKING PLAN



PLAN I.D.	PICTORIAL	CODE No.
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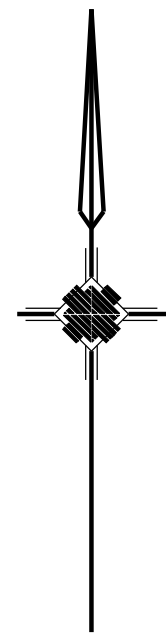
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STREET SIGN
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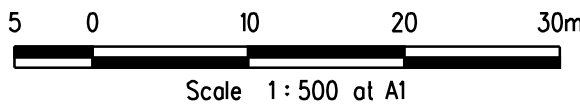
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VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014	MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613		36182/7A R16
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	Ltopo.dgn			
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD			
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.:	36182/7A			
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A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM		REVISION E
FILENAME: K:\36182\36182_7\ dgn\R16.dgn						AUTHORISED:	A.S.C. DATE: AUG 2013			SHEET 16 OF 20
LINEMARKING & SIGNAGE PLAN										



PARKING PLAN



VERSION DETAILS					
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.
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A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.

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SCALE:	AS SHOWN
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PROJECT No:	36182/7A
DRAWN:	C.M.B. DATE: AUG 2013
DESIGNED:	Z.W.L. DATE: AUG 2013
AUTHORISED:	A.S.C. DATE: AUG 2013

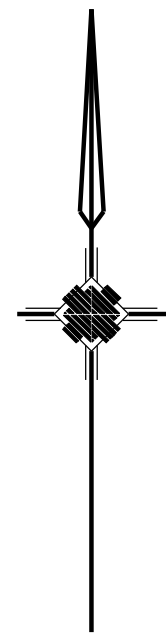
MORNINGTON
5 Main Street,
Phone(03) 5975 4644
Fax(03) 5975 3916

MELBOURNE
The Melbourne, Suite 2
250 St. Kilda Rd.
Phone(03) 9697 8000
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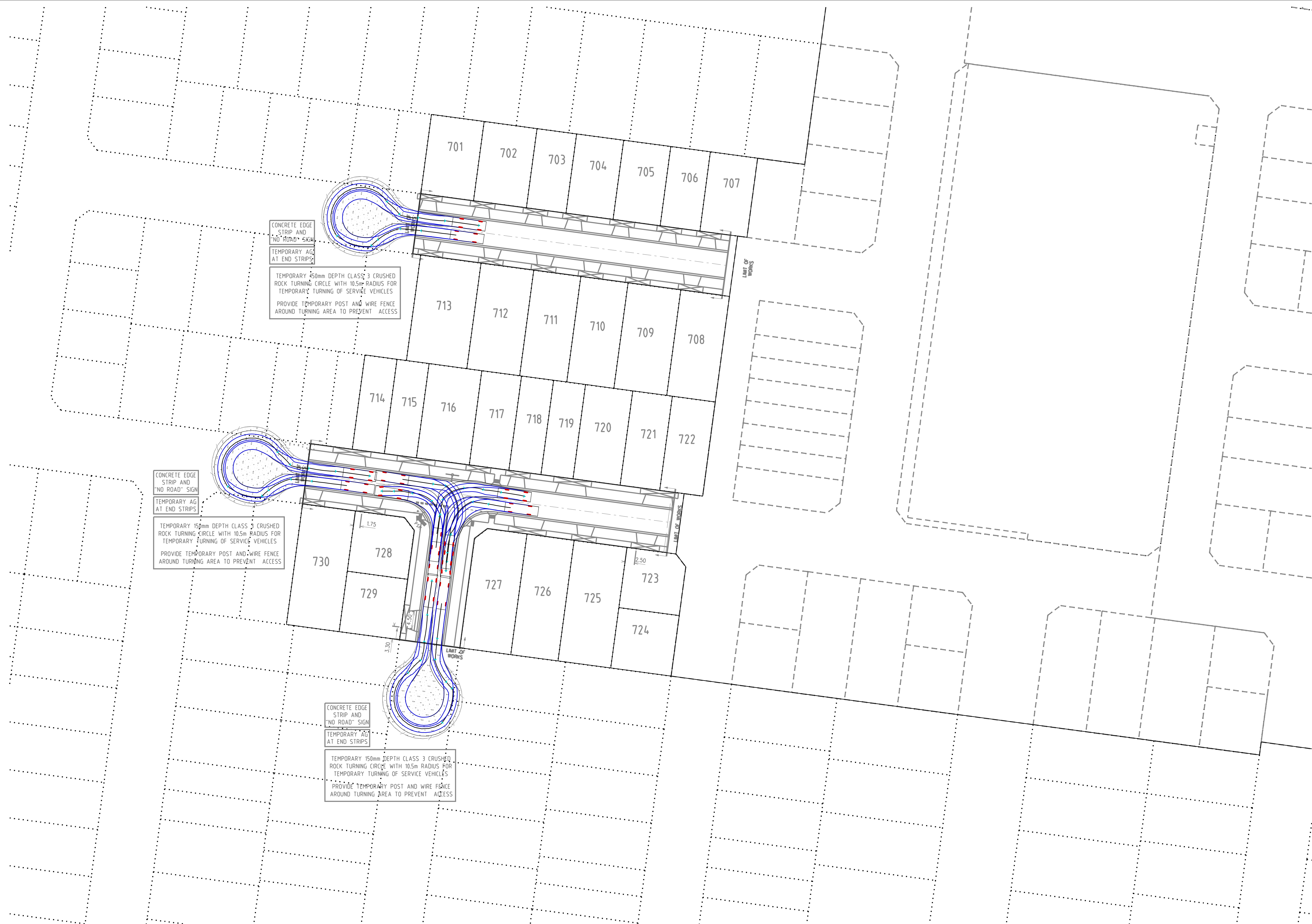
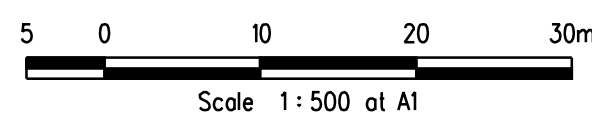
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HUME CITY COUNCIL	PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R17
PARKING PLAN	REVISION E
	SHEET 17 OF 20



TURNING PLAN

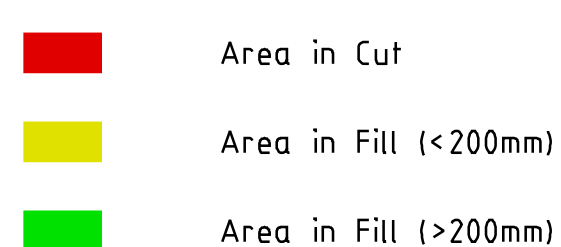


VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER		
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED: 17/04/2014	MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916	TOWN PLANNERS CIVIL ENGINEERS SURVEYORS	 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R18	
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA: Ltopo.dgn						
D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM: AHD						
C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.: 36182/7A						
B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS (LOTS 728/729, 723/724 & 701)	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN: C.M.B. DATE: AUG 2013	MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099	Project Managers Urban Designers Structural Engineers				
A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED: Z.W.L. DATE: AUG 2013				TURNING TEMPLATES	REVISION E	
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EARTHWORKS PLAN

LEGEND

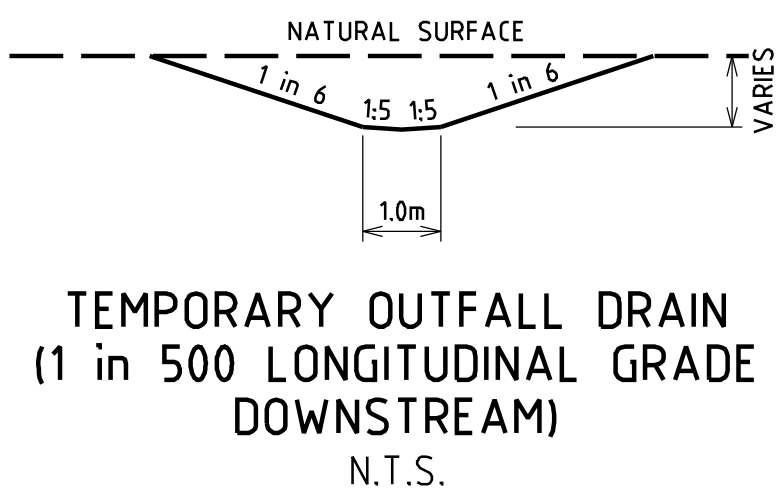


VERSION DETAILS						SCALE: AS SHOWN		HUME CITY COUNCIL		PLAN NUMBER		
REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014		VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM	36182/7A R19		
E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	L1topo.dgn				MORNINGTON 5 Main Street Phone(03) 5975 4444 Fax(03) 5975 3916	• TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS
C	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AMD				PROJECT No:	36182/7A
D	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN:	C.M.B.				DATE:	AUG 2013
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A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	AUTHORISED:	A.S.C.				DATE:	AUG 2013
FILENAME: k:\36182\36182-7\1.dgn\SR19.dgn								MELBOURNE The Melbourne, Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099		• Project Managers • Urban Designers • Structural Engineers	REVISION	E
										EARTHWORKS PLAN	SHEET 19 OF 20	

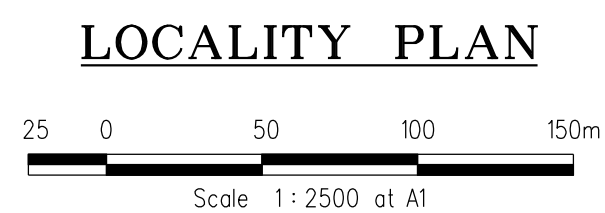
LEGEND

PROPOSED CUT-OFF DRAIN

TEMPORARY OUTFALL DRAIN



VERSION DETAILS						SCALE: AS SHOWN		MORNINGTON 5 Main Street, Phone(03) 5975 4644 Fax(03) 5975 3916 MELBOURNE The Melbourne Suite 2 250 St. Kilda Rd. Phone(03) 9697 8000 Fax(03) 9697 8099 WATSONS URBAN DEVELOPMENT CONSULTANTS & MANAGERS ABN 47 637 509 613 • TOWN PLANNERS • CIVIL ENGINEERS • SURVEYORS • Project Managers • Urban Designers • Structural Engineers <tr><th>REVISION</th><th>DATE</th><th>SHEETS REVISED</th><th>DESCRIPTIONS</th><th>STATUS</th><th>AUTHORISED</th><th>DATE PRINTED:</th><th>17/04/2014</th></tr> <tr><td>E</td><td>17/04/2014</td><td>ALL</td><td>-</td><td>AS CONSTRUCTED</td><td>Z.W.L.</td><td>LEVEL DATA:</td><td>L1topo.dgn</td></tr> <tr><td>D</td><td>28/02/2014</td><td>3</td><td>DRAINAGE LINE 12 OFFSET ADDED</td><td>ISSUED FOR CONSTRUCTION</td><td>Z.W.L.</td><td>DATUM:</td><td>AHD</td></tr> <tr><td>C</td><td>26/02/2014</td><td>3, 13, 14 & 15</td><td>DRAINAGE LINE 12 AMENDMENTS</td><td>ISSUED FOR CONSTRUCTION</td><td>Z.W.L.</td><td>PROJECT No.:</td><td>36182/7A</td></tr> <tr><td>B</td><td>25/10/2013</td><td>ALL</td><td>COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS LOTS 728/729, 723/724 & 701</td><td>ISSUED FOR CONSTRUCTION</td><td>Z.W.L.</td><td>DRAWN:</td><td>C.M.B. DATE: AUG 2013</td></tr> <tr><td>A</td><td>9/10/2013</td><td>3, 4 & 11</td><td>LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724</td><td>PRELIMINARY</td><td>Z.W.L.</td><td>DESIGNED:</td><td>Z.W.L. DATE: AUG 2013</td></tr> <tr><td colspan="6">AUTHORISED: A.S.C. DATE: AUG 2013</td><td colspan="2">AUTHORISED: A.S.C. DATE: AUG 2013</td></tr> <tr><td colspan="6">FILENAME: k:\36182\36182_7\topo\VR20.dgn</td><td colspan="2"></td></tr> <tr><td colspan="8">HUME CITY COUNCIL</td><td>PLAN NUMBER</td></tr> <tr><td colspan="8">VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM</td><td>36182/7A R20</td></tr> <tr><td colspan="8">TEMPORARY CUTOFF DRAIN & TEMPORARY OUTFALL</td><td>REVISION E</td></tr> <tr><td colspan="8"></td><td>SHEET 20 OF 20</td></tr>	REVISION	DATE	SHEETS REVISED	DESCRIPTIONS	STATUS	AUTHORISED	DATE PRINTED:	17/04/2014	E	17/04/2014	ALL	-	AS CONSTRUCTED	Z.W.L.	LEVEL DATA:	L1topo.dgn	D	28/02/2014	3	DRAINAGE LINE 12 OFFSET ADDED	ISSUED FOR CONSTRUCTION	Z.W.L.	DATUM:	AHD	C	26/02/2014	3, 13, 14 & 15	DRAINAGE LINE 12 AMENDMENTS	ISSUED FOR CONSTRUCTION	Z.W.L.	PROJECT No.:	36182/7A	B	25/10/2013	ALL	COUNCIL REQUESTED AMENDMENTS & LOT BOUNDARY AMENDMENTS LOTS 728/729, 723/724 & 701	ISSUED FOR CONSTRUCTION	Z.W.L.	DRAWN:	C.M.B. DATE: AUG 2013	A	9/10/2013	3, 4 & 11	LOT BOUNDARY AMENDMENTS - LOTS 728/729 & 723/724	PRELIMINARY	Z.W.L.	DESIGNED:	Z.W.L. DATE: AUG 2013	AUTHORISED: A.S.C. DATE: AUG 2013						AUTHORISED: A.S.C. DATE: AUG 2013		FILENAME: k:\36182\36182_7\topo\VR20.dgn								HUME CITY COUNCIL								PLAN NUMBER	VILLAWOOD PROPERTIES P/L TRILLIUM - STAGE 7A 535 MOUNT RIDLEY ROAD MICKLEHAM								36182/7A R20	TEMPORARY CUTOFF DRAIN & TEMPORARY OUTFALL								REVISION E									SHEET 20 OF 20
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ACCESS CHAMBER SETOUT

ACCESS CHAMBER	EASTING	NORTHING	COVER LEVEL	DIAMETER	COVER CLASS	MANHOLE TYPE
Fut.WAT1-18	3653.225	9848.992	250.637	-	-	-
WAT1-17P	3720.126	9840.022	250.229	-	-	-
WAT1-16MS	3785.285	9834.906	250.056	-	B	-
WAT1-15MS	3804.372	9828.727	249.714	-	B	-
WAT1-14P	3805.859	9828.528	249.697	-	-	-
Ex.WAT1-13	3820.231	9826.601	249.596	-	-	-
Fut.WAT4-5	3671.754	9708.282	249.111	-		-
WAT4-4P	3682.161	9706.887	249.021	-		-
WAT4-3	3713.877	9702.635	248.589	1050	B	TRUNCATED TYPE A
WAT4-2P	3783.256	9693.333	247.911	-	-	-
Ex.WAT4-1	3785.238	9693.067	247.822	-	-	-
Fut.WAT6-4	3641.361	9786.01	250.038	-	-	-
WAT6-3P	3702.811	9777.771	249.544	-	-	-
WAT6-2MS	3717.678	9775.778	249.428	-	B	-
WAT6-1P	3794.877	9765.428	248.687	-	-	-
Ex.WAT1-10	3801.815	9764.497	248.569	-	-	-
WAT9-1IS	3716.036	9718.74	248.716	-	B	-

NOTE:

1. xy setout to pit centre
2. setout level to pit cover level

NOTES:

1. All levels are in metres to Australian Height Datum (AHD).
2. Coordinates for setting out are to Map Grid of Australia (MGAS55-94) unless otherwise noted.
3. 30 No. properties sewerd.
4. Length of sewers to be constructed: 150mm dia PVC - 296m
225mm dia PVC - N/A
5. Works must be constructed according to WSA 02-2002 MRWA Edition, specifications and standard drawings, technical and construction requirements. Contractor shall ensure they are conversant with all the current revisions, amendments and updates that Yarra Valley Water have made to their construction standards.

PIPELINE CONSTRUCTION

6. Refer to Standard Drawings as per WSA.02-2002 MRWA Edition.

Diameter	Pipe Type	Pipe Class	Australian Standard
300mm	PVC	SN8	AS/NZS 1260-2002
225mm	PVC	SN8	AS/NZS 1260-2002
150mm	PVC	SN8	AS/NZS 1260-2002
100mm	PVC	SN10	AS/NZS 1260-2002

8. Pipe jointing shall be made with solvent cement for PVC pipes (375mm dia, 300mm dia, 225mm dia, 150mm dia, 100mm dia) to comply with AS/NZS3879
 9. Use SBR rubber jointing rings to AS1646 for first pipe joint on each side of maintenance hole.
All rubber pipe jointing rings must contain an approved root inhibitor.
- PROPERTY BRANCH SEWERS:
10. All branches to be 100mm dia PVC pipes.
 11. Boundary traps for properties are not required UNO or as specified.
 12. Property branches connecting into new sewers are to be constructed with standard PVC pipes and fittings.
 13. Property branch connection lies shown on the detail plan are from the appropriate title peg and the invert of the branch is shown opposite the branch position. All property sewer connections are to be marked by a coloured tape brought to the surface.
 14. Property branches must extend a minimum of 300mm and a maximum of 600mm beyond the property line or any services.
- MAINTENANCE HOLES AND SHAFTS
15. Refer to YW Technical Addendums & relevant WITS Drawings (SCH-032&SCH-033 RevB) and as per WSA-02-2002-2.3 MRWA Edition.
 17. Cranked design galvanised steel step irons to be used in maintenance holes.
 19. Covers in roadways to be Class D, all other covers shall be circular Class B. Covers and frames to be greased upon installation.
 20. Maintenance hole and shaft covers shall be level with and shall conform to slope and crossfall of the finished surface. The finished surface levels shown are approximate only and shall not be used for the fixing of any maintenance hole or shaft cover levels. The main Contractor shall provide levels to maintenance hole and shafts which comply with constructed levels to abutting infrastructure.
 21. WSA-02-2002 MRWA Edition WYN25 grade concrete - GP Type cement must be used in all construction.
 22. All Maintenance Hole Types are shown on Manhole schedule.
- EARTHWORKS:
23. In areas subject to earthworks, the construction of sewers must not commence until earthworks have been completed or the superintendent gives notice to commence. Where such direction is given to construct "Type 13" support and "Crushed Rock" backfill shall be placed around all sewers where clear cover does not exceed 600mm. Under road pavement where clearance between the bottom of the boxing and top of the sewer is less than 900mm "Type 13" support and "Crushed Rock" backfill shall be placed around sewers.

OUTLET

24. These works depend on existing sewer levels which are to be confirmed by Contractor prior to commencement of any works. Any discrepancies are to be reported to the Superintendent immediately.
25. All new service connections must be in accordance with the requirements of WSA 02:2002 MRWA Edition.

WORK ON LIVE SEWERS

26. Contractor is not permitted to break-in to an existing live pipeline, enter a live maintenance hole or remove the cover to a live maintenance hole.
27. All works on live sewers to be carried out by a Yarra Valley Water authorised contractor. The contractor is to notify the consultant at least two (2) working days before proceeding.

30. Contractor to supply plugs required by Yarra Valley Water authorised contractor for plugging

TESTING:

31. Testing of sewers in accordance with WSA.02-2002 MRWA Edition. All testing must be undertaken under the direction of the consultant. Contractor to give a minimum of two (2) clear days notice to the consultant prior to the testing being undertaken.

BORING

32. Any boring to be undertaken using laser guided machine in accordance with WSA.02-2002 MRWA Edition specifications and standard drawings.

ATTENTION TO CONTRACTOR

31. In accordance with clause 15 of AS4000-1997, the contractor must ensure the safety of the contractor's employees and all other people who are on or adjacent to the site. The contractor must comply with the Victorian Occupational Health and Safety Act.
34. The contractor must ensure that all people employed on the site wear approved safety apparel. This includes safety helmets, vests, safety boots, ear and eye protection where appropriate.
35. Chaugages shown on detail plan are discontinuous. Chaugages shown on longitudinal sections are continuous.
36. Principal contractor is responsible for setting out lines and levels for allsewers including works on live sewers.
37. Principal contractor to determine the finished surface level and slope for all maintenance holes and shafts.
38. Backfilling and compaction of trenches to be in accordance with Yarra Valley Water's requirements specification for developer works and backfill specification 02-1632. Earth backfill to be used unless noted otherwise.
39. Contractor to engage an independent soil testing authority with NATA accreditation to undertake testing of fill compaction and density testing in accordance with AS1289.
40. Contractor must obtain written permission from Yarra Valley Water for accessing water from fire hydrants for construction purposes.
41. Cross-contamination may occur when drawing water from a stand-pipe hydrant. Yarra Valley Water requires the contractor who draws water from hydrant to provide a method statement on how they propose to address the issue of cross-contamination.
42. Due to flat grades no allowance has been made for adverse tolerance. As constructed survey will be required at regular intervals during construction to ensure design levels and grades are achieved.
43. These works are to be carried out in accordance with geotechnical investigation report prepared by Site Geotechnical (provided).

TRENCHING AND EMBEDMENT DETAILS

44. Refer to WSA drawing SEW 1201-V for trench/width details and MRWA Backfill Specification 04-03 for backfill design specification details.
45. Refer to WSA Sections 161.1 & 211 for trench floor preparation requirements and trench fill compaction requirements.
46. Refer to WSA Sections 20 and 30.5 for particle size requirements and grading limits for embedment material.
47. Refer to WSA drawings SEW 1202 - SEW 1205 for embedment details. All embedment to be Type 3 UNO.
48. Embedment product to be South East Water 7mm bedding Product Specification WSA PS-359.
49. Backfill under footpath to be in accordance with MRWA Backfill Specification 04-03. Any other backfill material (sand) to be approved by road authority.

DESIGNED	Z.W.I.	PLAN REFERENCE	36182/7A
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	09/821



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YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 09/8
TRILLIUM MICKLEHAM STAGE 7
LOCALITY PLAN

SCALE AS SHOWN	
SHEET 1 OF 3	
DRAWING No.	
09/821/S01	
	A

A		MH WAT1-16 & WAT6-2 REPLACED WITH MS		10/12/13	ASC
REF.	ZONE	REVISION		DATE	APP'D.



WARNING

OVERHEAD ELECTRICITY

STOP

Major Cables exist in the area, if your activities are within Telstra encroachment distances (see duty of care) contact 03 9632 9961 at least 2 business days before starting activity.

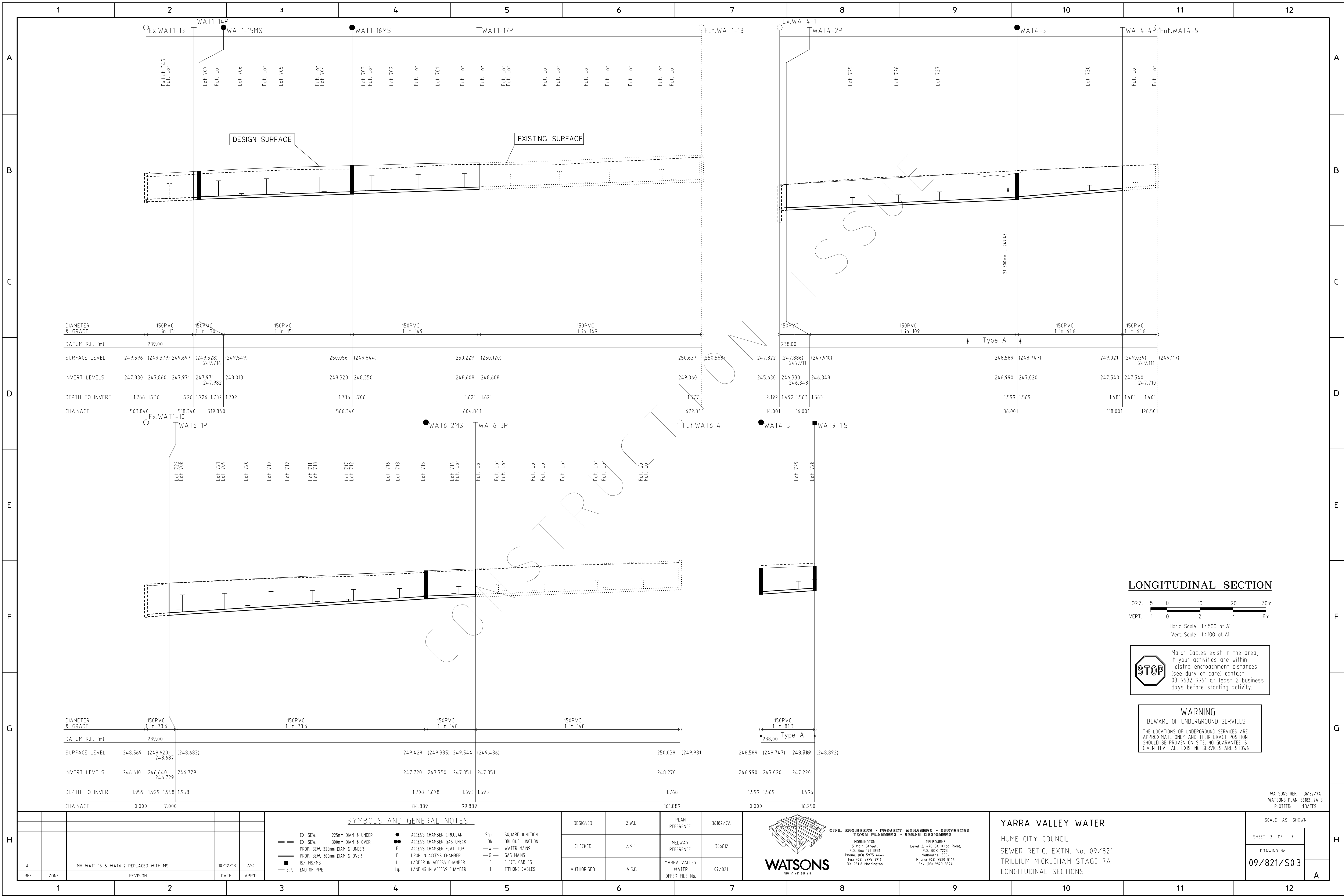
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

DETAIL PLAN

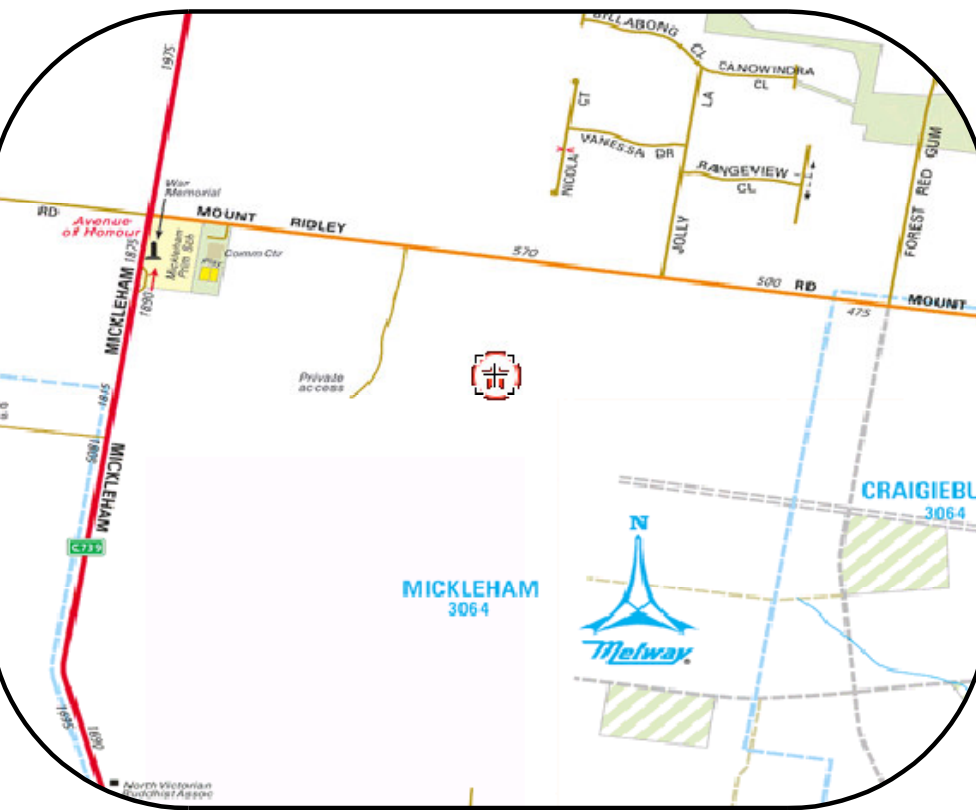
Scale 1:500 at A1

WATSONS REF. 36182/7A
WATSONS PLAN 36182_7A S
PLOTTED: SDATE

					SYMBOLS AND GENERAL NOTES					DESIGNED		Z.W.L.		PLAN REFERENCE		36182/7A		WATSONS ABN 47 837 569 413 CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS TOWN PLANNERS - URBAN DESIGNERS MORNINGTON 5 Main Street, P.O. Box 171 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington MELBOURNE Level 2, 470 St. Kilda Road, P.O. Box 1223 Melbourne, 3004 Phone: (03) 9820 8544 Fax: (03) 9820 3574		YARRA VALLEY WATER HUME CITY COUNCIL SEWER RETIC. EXTN. No. 09/821 TRILLIUM MICKLEHAM STAGE 7A DETAIL PLAN		SCALE AS SHOWN	
					CHECKED		A.S.C.		MELWAY REFERENCE		36612		SHEET 2 OF 3										
					AUTHORISED		A.S.C.		YARRA VALLEY WATER OFFER FILE No.		09/821		DRAWING No.										
													09/821/S02										
REF.		ZONE		REVISION		DATE		APP'D.										A					
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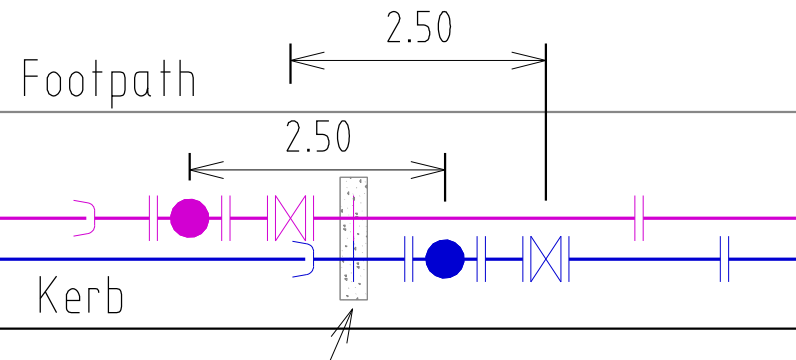
DESIGN HEAD: 65.7 m
ZONE: RESIDENTIAL
TEST PRESSURE: 1000 kPa



LOCALITY PLAN

SCALE: N.T.S.
MELWAYS: 366 B12

Typical Valve Cluster Arrangement



In Line Thrust Block.
Refer MRWA-W-205B.



FOR THE DURATION OF PROCLAIMED WATER RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

General Notes:

- Only products approved and catalogued by the Water Agency shall be used.
- Works must be constructed according to WSA 03- 2012 MRWA edition. The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards.
- DW and NDW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- This design is to be read in conjunction with road and drainage plans.
- The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner.
- For interpretation of the symbols used in this design, refer to drawing MRWA-W-100.

Survey, Set Out and Asset Recording

- Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings.

- All levels are in metres to AHD.
- All co-ordinates are in metres to the Map Grid of Australia (MGA 55- 94) unless noted otherwise.
- The Contractor is directly responsible for ensuring the project set out is consistent with the design. Should actual site conditions conflict in any way with that documented, the Contractor shall contact the Superintendent for clarification before proceeding.
- The Contractor is to engage a suitably qualified and experienced Surveyor to undertake asset recording of the work. All surveyor works and data recording shall be undertaken in accordance with the MRWA survey manual.
- All specific pipe materials (eg: PVC-O) shall be indicated in the As Constructed information

Products and Materials

- DW and NDW system components shall be differentiated as per section 4.2 of WSA03-2012 MRWA edition.

- For the Pipe Schedule, refer to TABLE .1.

- For the Pipe Material Schedule, refer to TABLE. 2.

Appurtenances (Fittings)

- All valves and hydrants shall be marked according to drawings MRWA-W-300 and MRWA-W-301.
- Valve surrounds, covers and spindles shall be constructed in accordance with drawing MRWA-W-302.
- Hydrant surface arrangements shall be constructed in accordance with drawings MRWA-W-303.
- Flange and flange bolts shall be constructed in accordance with drawings MRWA-W-306A and MRWA-W-306B.
- For the Hydrant and Washout Schedule, refer to TABLE .3.
- All valves shall be located directly out from the apex of the splay corner (unless otherwise indicated).

Water Main Alignment, Trenching & Cover

- Trench, pipe placement, embedment and backfill dimensions as per standard drawing MRWA-W-202.
- Offsets of mains from property boundaries shall be; min 600mm (mains < DN100) and min 1m (mains >=DN100).

- All water mains shall pass over drains and sewers unless shown otherwise in the design drawings.
- Curved water main(s) and deflections shall be constructed as per drawing MRWA-W-212.

- Mains shall be aligned in accordance with the Services Alignment Schedule (Refer to TABLE .5).

Embedment

- For trafficable and non-trafficable embedment refer MRWA-W-201.

- Embedment shall be placed as per drawings MRWA-W-201 and MRWA-W-202.

Backfill

- For trafficable and non-trafficable backfill refer MRWA-W-201. Any other backfill material to be approved by road authority.

- Compaction trials and compaction testing shall be undertaken in accordance with the MRWA Backfill Specifications.

Thrust Restraint

- For the Thrust Restraint Schedule, refer to TABLE .6.
- Construct concrete thrust restraints as per drawings MRWA-W- 204 and 205A.

- Timber / Recycled plastic blocks as per drawings MRWA-W-204 and MRWA-W-206.
- Thrust restraints have been designed on the basis of the AHBP (ground strength) nominated in TABLE 6. The Contractor shall confirm the actual ground conditions (using standard drawing MRWA-W-200 as a guide) and discuss with the Superintendent any ground conditions which are found to be different to that nominated.

Property Services

- Property Services to the end of service shall be constructed as per drawings MRWA-W-110 and MRWA-W-111.
- NDW property services shall always be located on the left of the DW property service as you look from the road to the front of the property.

Connections (All types)

- Connection of >= DN100 offtakes to existing mains shall be as indicated in the design drawings and as per drawing MRWA-W-106.
- Connection of DN40, 50 & 63 PE offtakes shall be as per drawing MRWA-W-107.
- Property Service Connections as per drawing MRWA-W-111.
- All property service connections to new residential non PE reticulation mains are to be completed using pretapped connectors.

Other Services

- To receive the most up to date information prior to construction, "Dial before you Dig" shall be undertaken to aid in the location of other services. Other services shall be carefully located prior to full excavation at the contractor's cost. Any clashes of proposed new works with other assets shall be reported to the Superintendent immediately for clarification.

- Offsets to other services shall be as per TABLE 5 or otherwise as per table 5.5 of WSA03- 2012 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

- Vertical Clearances from other services shall be as per TABLE .7

Testing, Asset Acceptance and Live Connections

- Post construction activities (of both DW & NDW) such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2012 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent.

- The Contractor &/or Consultant shall provide 5 days notice to the Superintendent prior to testing being undertaken.

- Unless otherwise informed, all NDW main to meter connections shall be inspected by the Water Agency, with the Water Agency being notified at least 5 days prior to connection .

All main to meter service connections are to remain exposed until inspected by the Water Agency compliance officer.

- With each NDW connection, the Contractor must supply a signed pre-inspection checklist.

- The Contractor shall provide at least 5 days notice to the Superintendent prior to connecting new works to the existing network. Shut down work shall be scheduled for 9am weekdays and be completed within 480 minutes.

- Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.

- Pressure test pipeline systems using the method and duration specified in Table MRWA19.2.

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING

BEWARE OF ASBESTOS
SOME UNDERGROUND SERVICES MAYBE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD

ISSUED FOR
CONSTRUCTION

TABLE 1. New Pipe Schedule

New Work			Drinking Main	Non-Drinking Main
Size (DN)	Type	Class	Length	Length
150	PVC-O or PVC-M	16	-	-
100	PVC-O or PVC-M	16	226m	226m
63	PE80	12.5	-	-
50	PE80	12.5	-	-
40	PE80	12.5	-	-
25	PE80	12.5	Property Services	Property Services

TABLE 2. Pipe Material Schedule

MATERIAL	Reference	MATERIAL	Reference
PVC-M	WSA-PS-209	PE (retic & submain)	WSA-PS-207
PVC-O	WSA-PS-210	PE (property services)	WSA-PS-215

TABLE 3. Hydrant & Washout Schedule (All DW hydrants & Washouts are Water Agency owned)

Main Size	Fitting Type	Ownership	Location	Street	Location
100	HYDRANT	NDW - YVW	End of Line	ABLOOM VIEW	Front of Lot 701
100	HYDRANT	DW	End of Line	ABLOOM VIEW	Front of Lot 701
100	HYDRANT	NDW - YVW	In Line	MUSKWOOD DRIVE	East of Lot 728
100	HYDRANT	DW	In Line	MUSKWOOD DRIVE	East of Lot 728
100	WASHOUT	NDW	End of Line	TURION DRIVE	Western Limit of Works
100	WASHOUT	DW	End of Line	TURION DRIVE	Western Limit of Works
100	WASHOUT	NDW	End of Line	MUSKWOOD DRIVE	Front of Lot 729
100	WASHOUT	DW	End of Line	MUSKWOOD DRIVE	Front of Lot 729

TABLE 4. Curved Pipe & Deflection Schedule

Location	Method	Offset / Radius (m)	Total Pipe Length (m)	Pipe Lengths (m)

TABLE 5. Service Alignment Schedule (offsets in m)

Location	Water	ND-Water	Gas	O/F	Elec	Poles	BOK
ABLOOM VIEW	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-
TURION DRIVE	3.05 N	2.55 N	2.05 N	1.775 S	2.60 S	-	-
SOLAR WAY	3.05 W	2.55 W	2.05 W	1.775 E	2.60 E	-	-

TABLE 6. Thrust Restraint Schedule

Location	Type	Area (m²)	Depth (m)	Width (m)	Quantity	Fitting	AHBP (kPa) USED
A	Detail E, MRWA-W-205B	0.23	N/A	N/A	3	100 DEAD END	50
B	Detail F-H, MRWA-W-205B	0.23	N/A	N/A	1	100 X 100 TEE	50
C	Detail A-E, MRWA-W-205B	0.30	N/A	N/A	1	100 VALVE	50

TABLE 7. Vertical Clearances

Existing or proposed Service	Minimum vertical clearance (mm)	Existing or proposed Service	Minimum vertical clearance (mm)
Water mains < DN375	150	Electricity conduits and cables	225
Water mains >DN375	300	Stormwater drains & pits	150
Gas mains	150	Sewers - gravity	500
Teleco conduits and cables	150	Sewers - pressure & vacuum	300

- Vertical clearance between water mains shall depend on the larger main diameter.
- Water mains shall cross over sewers and drains unless shown otherwise.
- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and marking.

				DESIGNED	Z.W.L.	WATSONS REFERENCE	36182/7A
				CHECKED	A.S.C.	MELWAY REFERENCE	366 B12
A	PROPERTY SERVICE AMENDMENTS	22/10/13	Z.W.L.	AUTHORISED BY	A.S.C.	YARRA VALLEY WATER REFERENCE	X/XXX
REV	DESCRIPTION	DATE	APPROVED				

				DESIGNED	Z.W.L.	WATSONS REFERENCE	36182/7A
				CHECKED	A.S.C.	MELWAY REFERENCE	366 B12
A	PROPERTY SERVICE AMENDMENTS	22/10/13	Z.W.L.	AUTHORISED BY	A.S.C.	YARRA VALLEY WATER REFERENCE	X/XXX
REV	DESCRIPTION	DATE	APPROVED				



CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
TOWN PLANNERS - URBAN DESIGNERS
MORNINGTON 5 Main Street P.O. Box 171 3931 Phone: (03) 5975 4644 Fax: (03) 5975 3916 DX 93118 Mornington
MELBOURNE The Melbourne Suite 2 250 St. Kilda Rd. Phone:(03) 9697 8000 Fax:(03) 9697 8099



YARRA VALLEY WATER
ACN 066 902 501
WATER MAIN PLAN
TRILLIUM - STAGE 7A
535 MOUNT RIDLEY ROAD, MICKLEHAM
HUME CITY COUNCIL

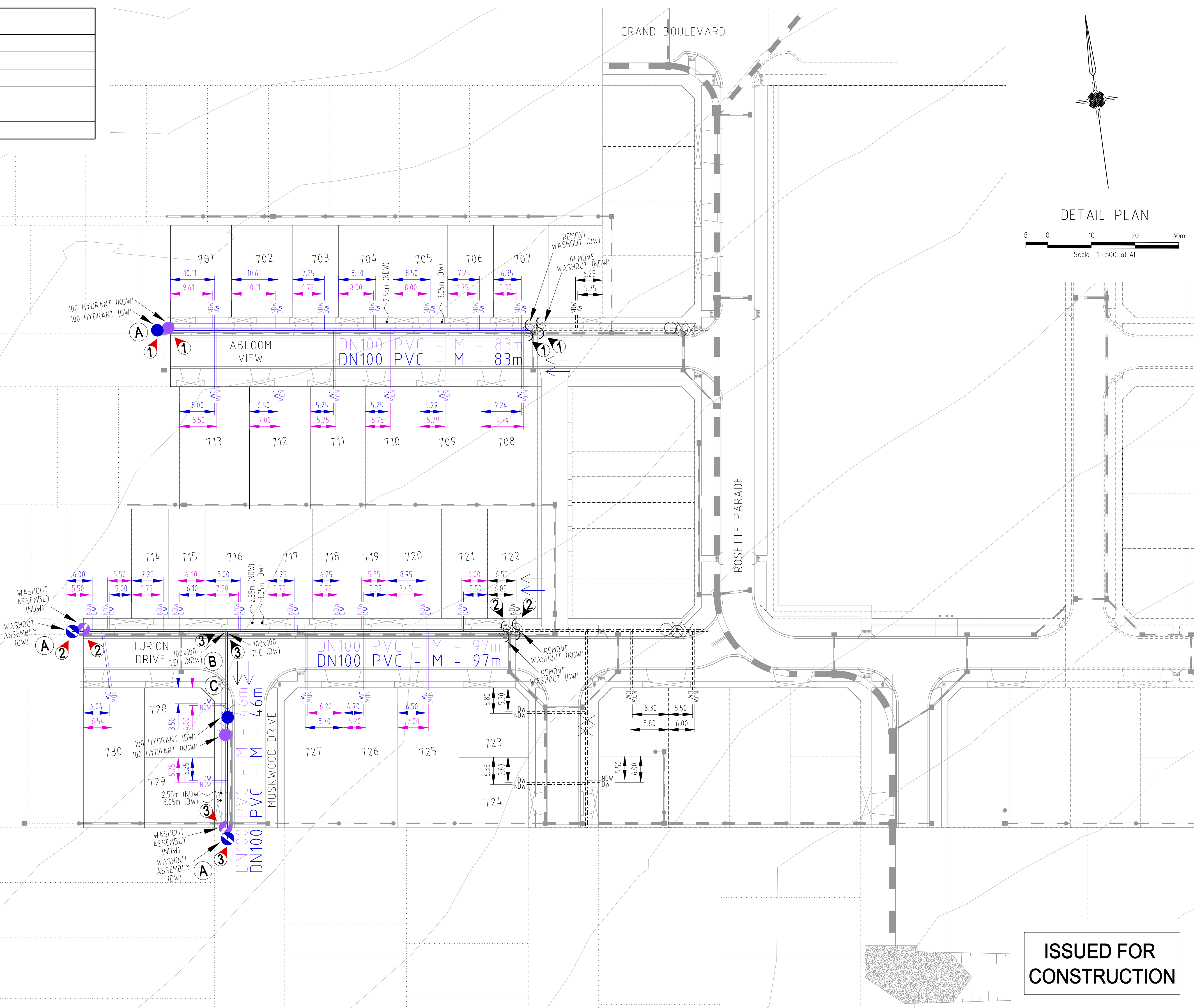
SCALE AS SHOWN

SHEET 1 of 2

DRAWING No.
X/XXX
W01

A

LEGEND			
X	VALVE	)	ENDCAP
●	WATER AUTHORITY HYDRANT, BELOW GROUND.	---	ABANDONED
⌘	REMOVE FITTING	→	SWAB DIRECTION
▶	TAPER	ⓐ	SWAB INSERTION POINT
⊗	CHLORINATION POINT	ⓑ	SWAB REMOVAL POINT
⊕	WASHOUT ASSEMBLY	○	EXISTING HYDRANT



ISSUED FOR
CONSTRUCTION

				DESIGNED	Z.W.L.	WATSONS REFERENCE	36182/7A
				CHECKED	A.S.C.	MELWAY REFERENCE	366 B12
A	PROPERTY SERVICE AMENDMENTS	22/10/13	Z.W.L.	AUTHORISED BY	A.S.C.	YARRA VALLEY WATER REFERENCE	X/XXX
REV	DESCRIPTION	DATE	APPROVED				
1							
2							
3							
4							
5							



WATSONS

ABN 47 637 599 613

CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
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SCALE AS SHOWN	
SHEET 2 of 2	
DRAWING No.	
X/XXX	
W02	