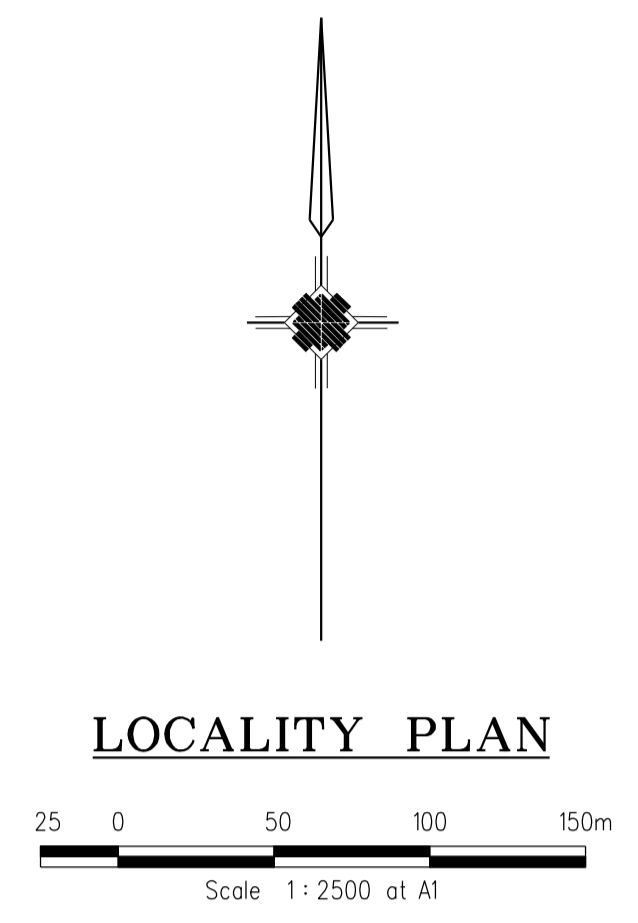
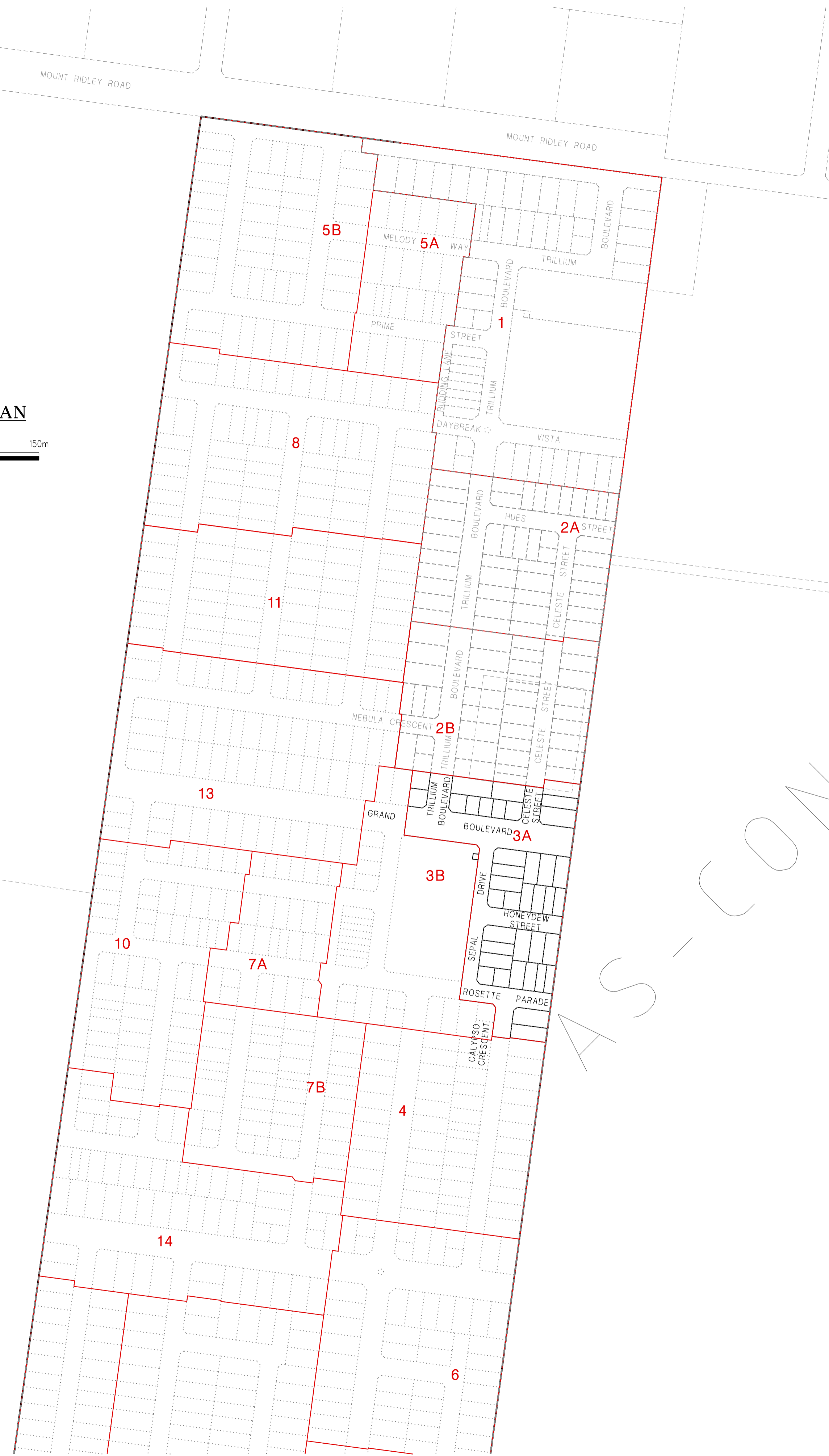


SHEET INDEX

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10	CELESTE STREET LONGITUDINAL & CROSS SECTIONS
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LOCALITY PLAN



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT.OPO
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME k:\36182\36182 3\dgn\R01.dgn			AUTHORISED:	A.S.C DATE: AUG 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R01
LOCALITY PLAN & SHEET INDEX		REVISION Q
		SHEET 01 OF 28

SITE SPECIFIC NOTES

- 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 THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS
- 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 ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED
- 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 AG DRAIN TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL
- 7 ALL DRAINAGE PIPES GREATER THAN 150mm TO BE R R J CLASS 2 (UNO)
- 8 ACCESS TO EXISTING RESIDENCE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION
- 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 APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH HUME CITY COUNCIL'S COUNCIL WORKS SUPERVISOR
- 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 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 MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY
- 14 PAVEMENT DEPTH TO BE MODIFIED AS DIRECTED BY HUME CITY COUNCIL
- 15 USE OF ANY SOFT RIPPED ROCK IN ROAD PAVEMENT IS TO CONFORM TO SPECIFICATIONS FOR RIPPED ROCK
- 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 NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN
- 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 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 TELSTRA AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH
- 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 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 ILS 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

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

HUME CITY COUNCIL NOTES

- 1 CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH
- 2 ALL WORKS CARRIED OUT TO STANDARD OF DRAWINGS AND SPECIFICATION AS APPROVED BY HUME CITY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER AND MUNICIPAL ENGINEER IN CASE OF DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE
- 3 IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES AND TO CONTACT THE LOCAL SERVICE AUTHORITIES AS REQUIRED
- 4 NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER
- 5 ALL CUT AREAS OUTSIDE ROAD RESERVES TO BE SURFACED WITH 100MM MIN COMPACTED LAYER OF TOPSOIL
- 6 ALL DISTURBED ALLOTMENTS AND RESERVES TO BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE
- 7 ALL HOUSE DRAINS SHOULD BE GENERALLY FLAT AT A GRADE OF 1:100 AND IN ACCORDANCE WITH HUME CITY COUNCIL STANDARDS
- 8 ALL TRENCHING OF DEPTH 1.5M OR GREATER MUST COMPLY WITH THE MINES AND TRENCHES REGULATIONS 1982
- 9 CONCRETE STRENGTH TO HAVE 28 DAY STRENGTH OF 25 MPA (UNO)
- 10 THE CONTRACTOR IS TO SUPPLY AND ERECT THE RELEVANT STREET SIGNAGE
- 11 KERB TYPES HAVE BEEN SPECIFIED TRANSITIONS BETWEEN DIFFERENT TYPES TO BE OVER 3.0M IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER (UNO)
- 12 ROAD OPENING PERMIT TO BE OBTAINED FOR CROSSING EXISTING PAVEMENTS AS REQUIRED
- 13 ALL FOOTPATHS TO BE 1.5m WIDE & SHARED PATHS TO BE 2.5m WIDE (UNO)
- 14 ALL FOOTPATHS & SHARED PATHS TO BE 125mm DEPTH CONCRETE
- 15 THE CONTRACTOR SHALL, TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS ACT
- 16 IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED
- 17 AN ENVIRONMENTAL MANAGEMENT PLAN (EMP), TRAFFIC MANAGEMENT PLAN (TMP) AND SITE MANAGEMENT PLAN (SMP) MUST BE PREPARED BY THE CONTRACTORS AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY ON-SITE WORKS AND ALL WORKS MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH THESE PLANS
- 18 REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPING PLANS (OTHERWISE APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVALS OFFICER)
- 19 NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS TO BE BURNT ON SITE
- 20 THE DESIRABLE DEPTH OF FILL ALLOWABLE AGAINST THE FENCING IS 200mm PROVIDED A SUITABLE PLINTH IS PROVIDED AT THE BOTTOM OF THE FENCING
- 21 RETAINING WALLS ARE TO BE PROVIDED WHEN THE DIFFERENCE IN LEVELS BETWEEN ABUTTING LOTS EXCEEDS 500mm OR WHEN MAXIMUM BATTER SLOPES ARE EXCEEDED

AS-CONSTRUCTED

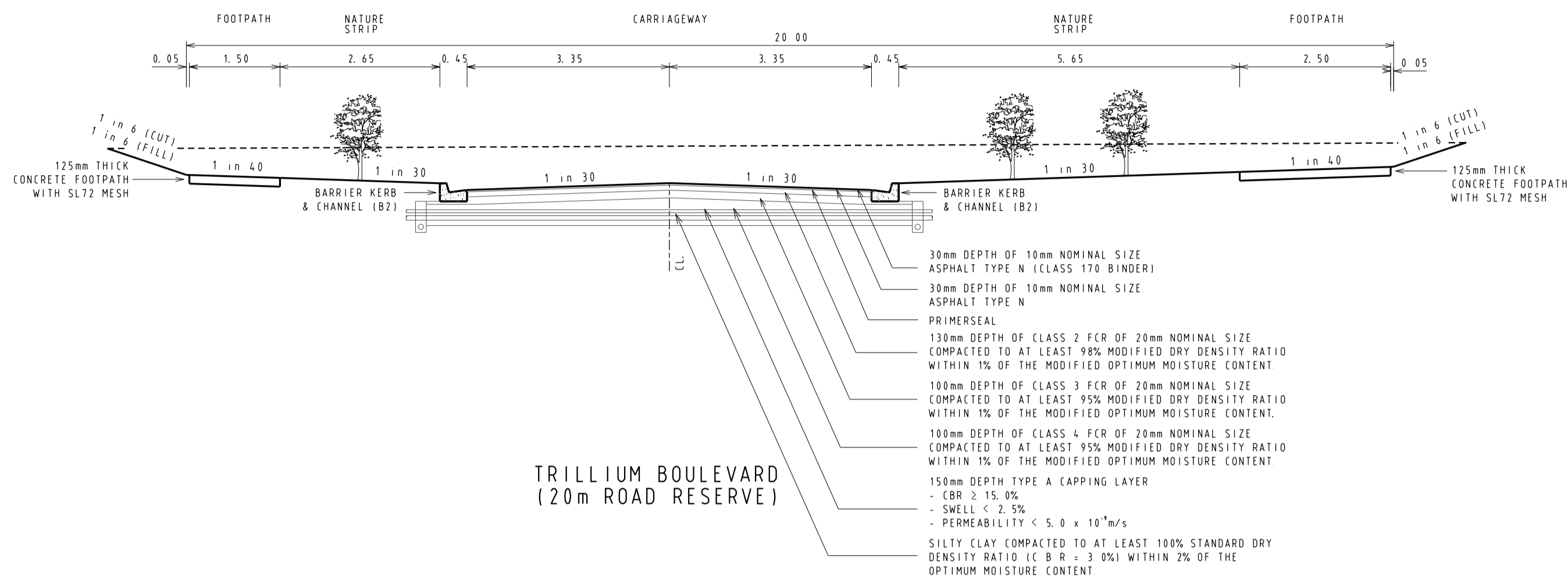
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18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
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00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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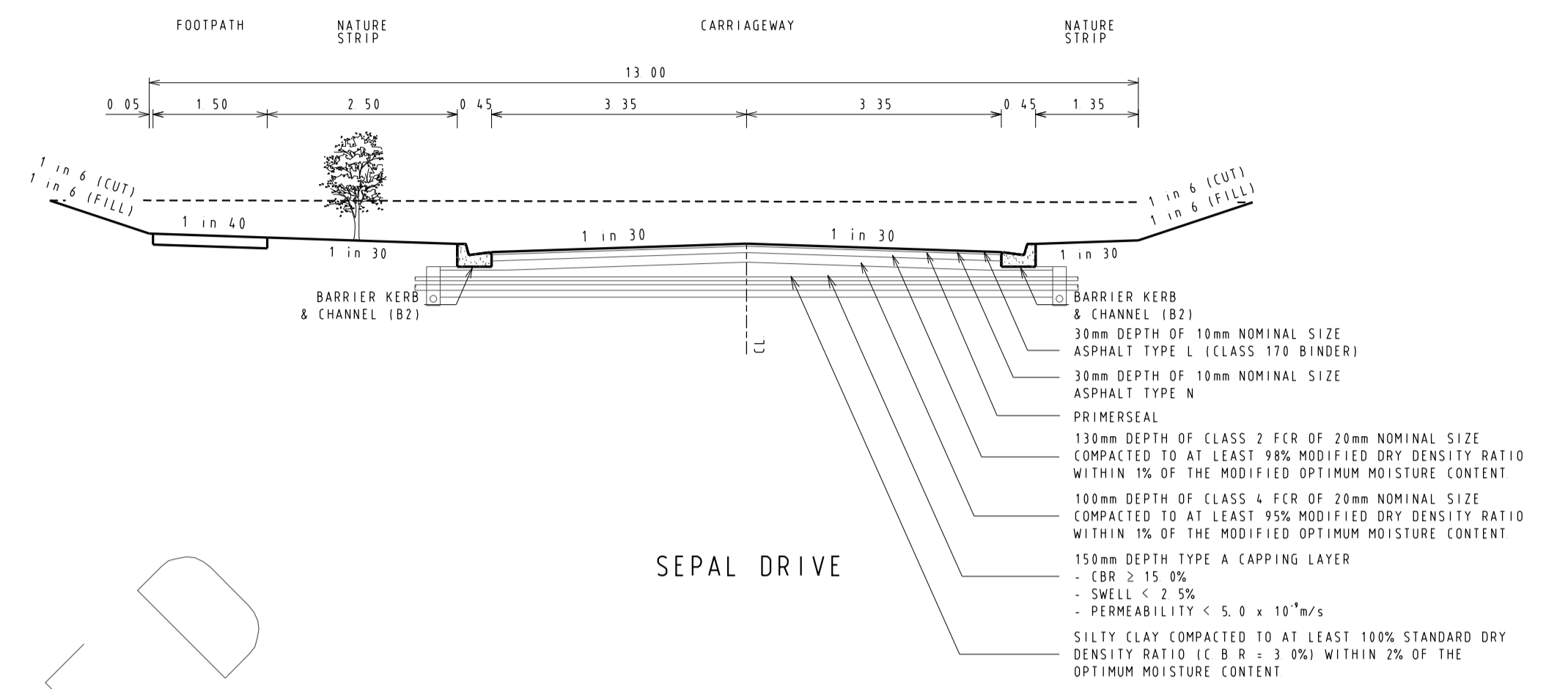
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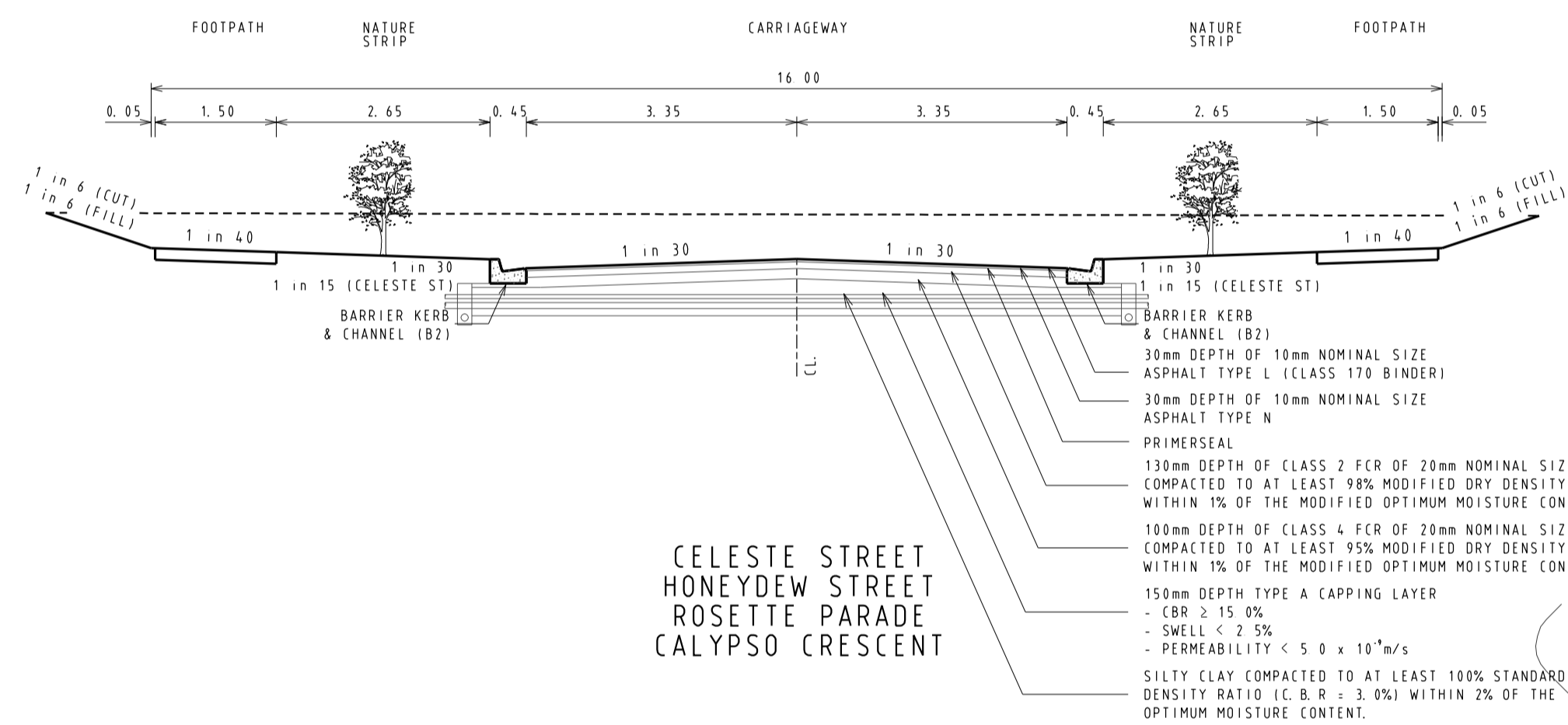
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R02
GENERAL NOTES, SITE SPECIFIC NOTES & HUME CITY COUNCIL NOTES		REVISION Q
		SHEET 2 OF 28



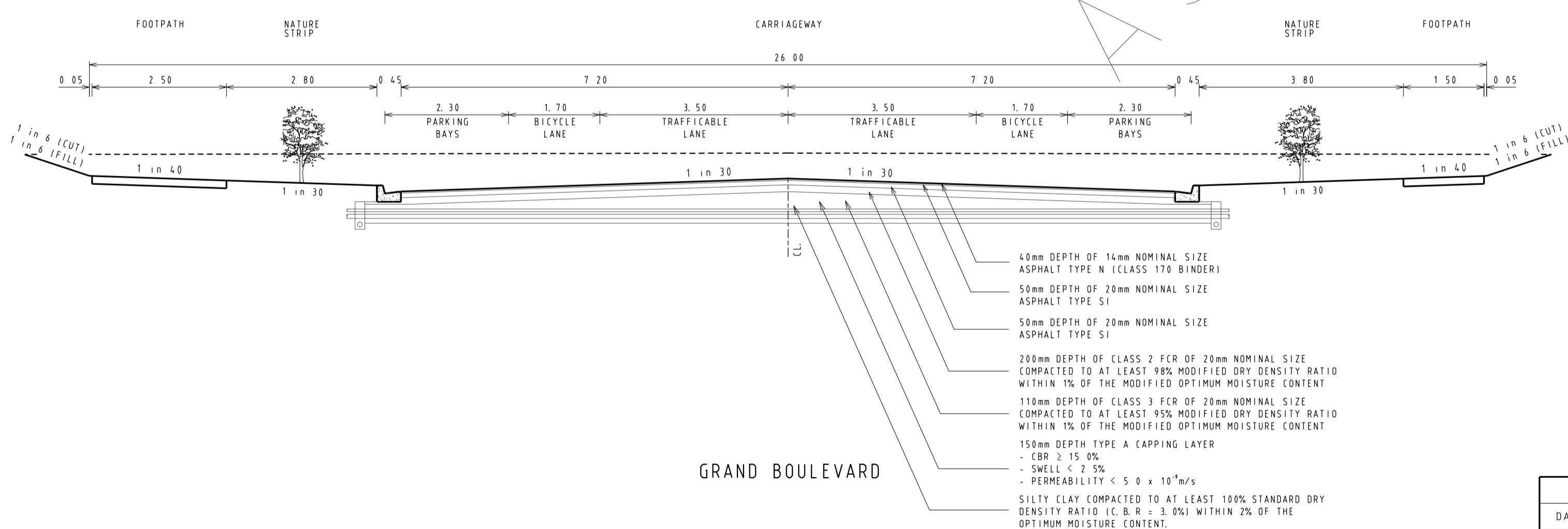
TRILLIUM BOULEVARD
(20m ROAD RESERVE)



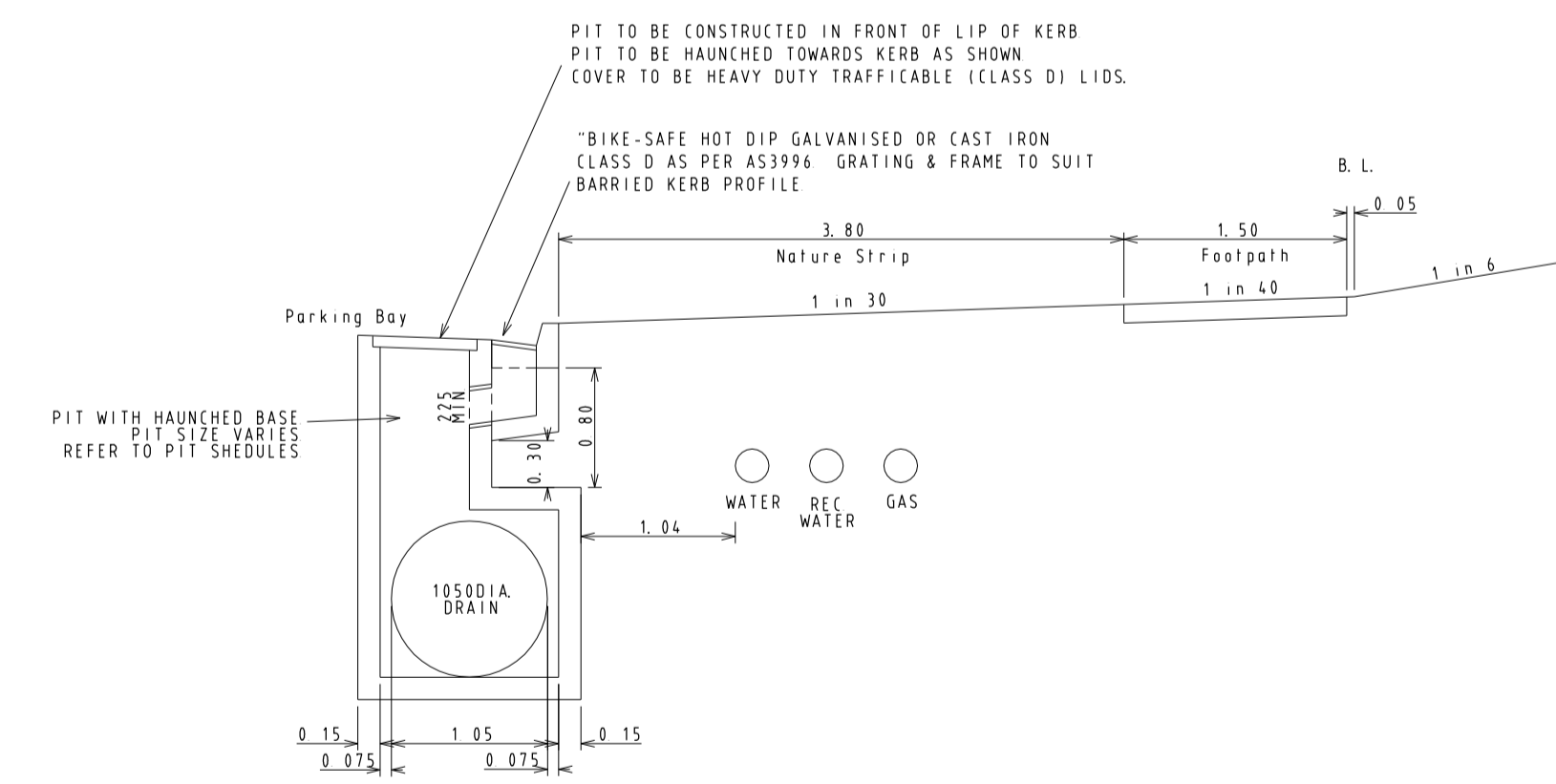
SEPAL DRIVE



CELESTE STREET
HONEYDEW STREET
ROSETTE PARADE
CALYPSO CRESCENT

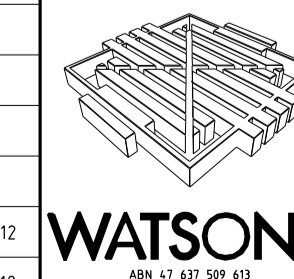


GRAND BOULEVARD



GRAND BOULEVARD Ch0 00 - Ch109 15 (NORTH SECTION)
TYPICAL SECTION OF DRAINAGE ARRANGEMENT

REVISIONS			SCALE:
DATE	DETAILS	AUTHORISED	AS SHOWN
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	DATE PRINTED: 28/01/2015
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4/06/13	N CROSSOVER AMENDMENTS	ASC	PROJECT No.: 36182_3A
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DRAWN: DATE: AUG 2012
			DESIGNED: Z.W.L DATE: AUG 2012
			AUTHORISED: A.S.C DATE: AUG 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R03
TYPICAL PAVEMENT & GRAND BOULEVARD (NORTH SECTION) CROSS SECTIONS		REVISION Q
		SHEET 3 OF 28

SERVICE OFFSETS

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

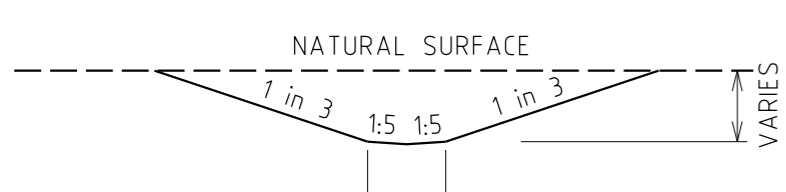
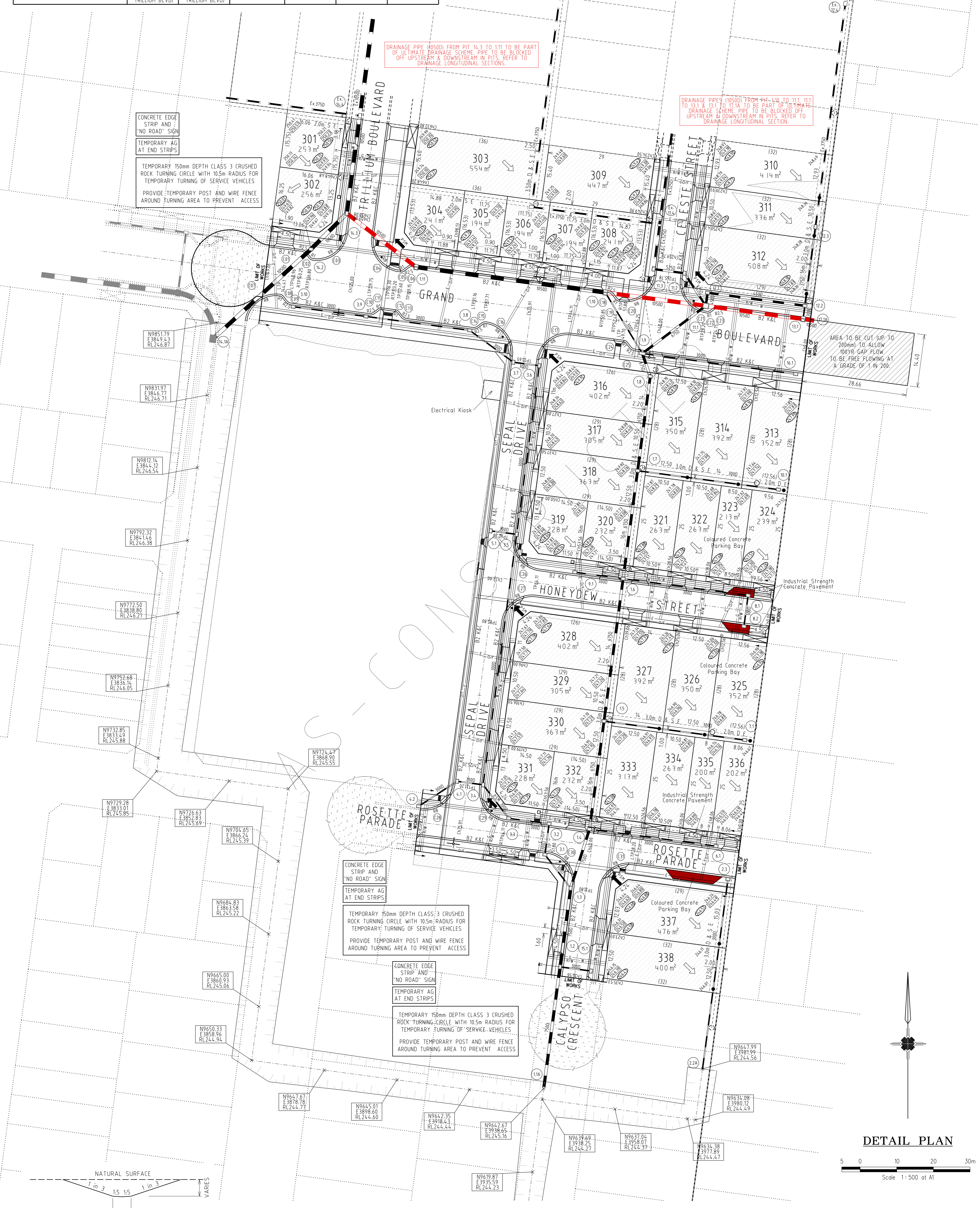
STREET NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
TRILLIUM BOULEVARD	2.05 W	2.55 W	3.05 W	3.60 E	2.775 E	1.00 W
CELESTE STREET CALYPSO CRESCENT	2.05 E	2.55 E	3.05 E	2.60 W	1.775 W	Ex. 1.00 W (CELESTE STREET)
HONEYDEW STREET ROSETTE PARADE	2.05 N	2.55 N	3.05 N	2.60 S	1.775 S	1.00 N
SEPAL DRIVE	2.05 E	2.55 E	3.05 E	0.95 W	0.30 W	-
GRAND BOULEVARD	3.05 N (EAST OF TRILLIUM BLVD) 2.95 N (WEST OF TRILLIUM BLVD)	3.55 N (EAST OF TRILLIUM BLVD) 3.45 N (WEST OF TRILLIUM BLVD)	4.05 N	3.80 S	3.30 S	Ex. 1.00 N

DRAINAGE PIPES (10500) FROM PIT 14.3 TO 111 TO BE PART OF ULTIMATE DRAINAGE SCHEME PIPE TO BE BLOCKED OFF UPSTREAM & DOWNSTREAM IN PITS. REFER TO DRAINAGE LONGITUDINAL SECTIONS.

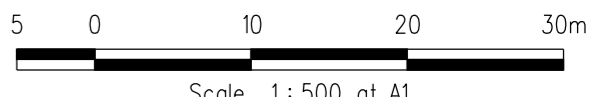
DRAINAGE PIPES (10500) FROM PIT 110 TO 111, 111 TO 131 & 131 TO 171A TO BE PART OF ULTIMATE DRAINAGE SCHEME PIPE TO BE BLOCKED OFF UPSTREAM & DOWNSTREAM IN PITS. REFER TO DRAINAGE LONGITUDINAL SECTION.

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
TEMPORARY AG AT END STRIPS
TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

AREA TO BE CUT (UP TO 200mm) TO ALLOW 100YR GAP FLOW TO BE FREE FLOWING AT A GRADE OF 1 IN 200.



DETAIL PLAN



TEMPORARY OUTFALL DRAIN
(1 in 500 LONGITUDINAL GRADE
DOWNSTREAM)
N.T.S.

REVISIONS			SCALE:	AS SHOWN
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R04
DETAIL PLAN & SERVICE OFFSET TABLE		REVISION Q
		SHEET 4 OF 28

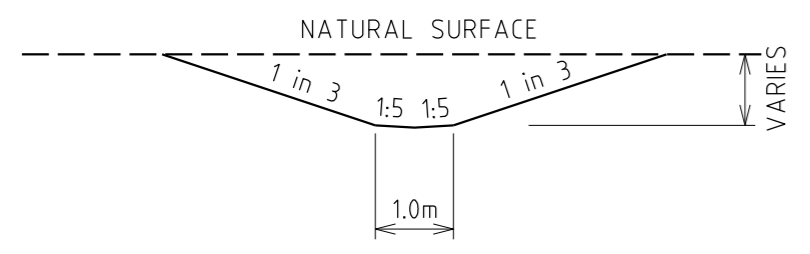
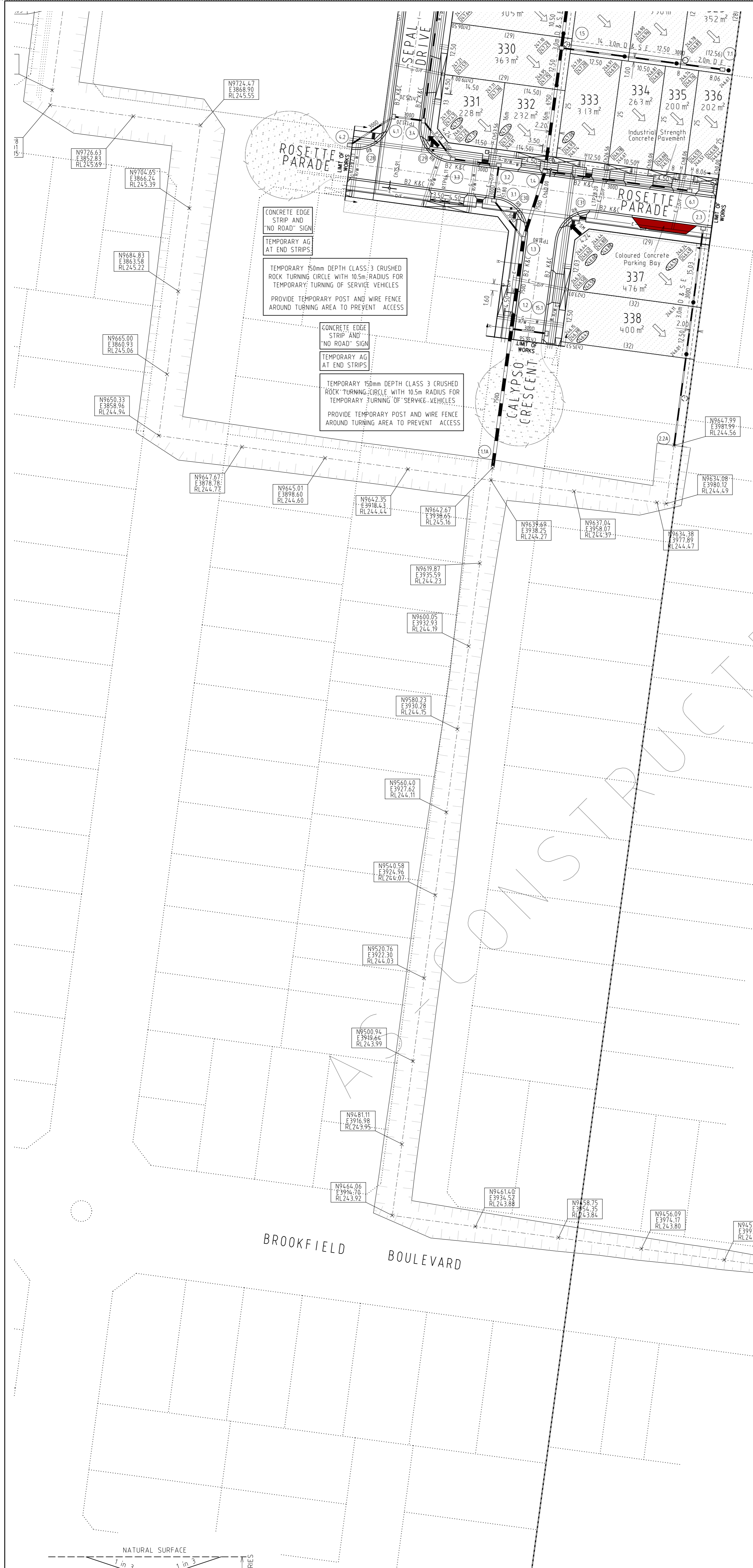
LEGEND

- 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

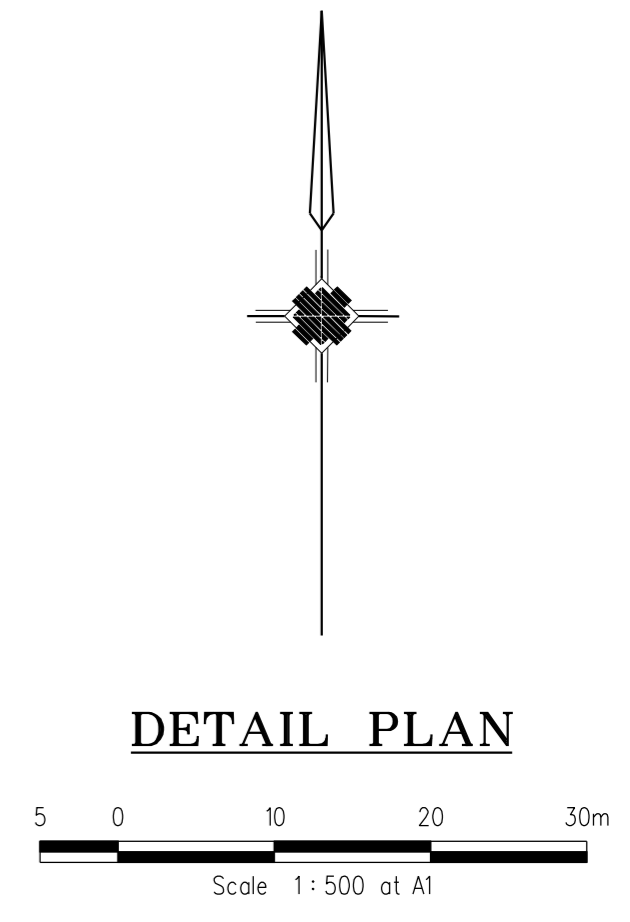
NOTE:

- Symbols are proposed construction (UNO)
- Existing construction shown with broken lines

Drainage part of Ultimate Drainage Scheme to be constructed in advance as part of Stage 3A works. (Pipe to be blanked off upstream & downstream in pits to stop runoff flowing through pipe in the interim).



TEMPORARY OUTFALL DRAIN
(1 in 500 LONGITUDINAL GRADE
DOWNSTREAM)
N.T.S.



DETAIL PLAN

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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R04A
DETAIL PLAN & SERVICE OFFSET TABLE		REVISION Q
		SHEET 4A OF 28

KERB RETURN K03

POINT NO.	EASTING	NORTHING	RL
K03.1	3892.53	9881.126	249.616
K03.2	3892.132	9878.154	249.597
K03.3	3891.733	9875.18	249.578
K03.4	3891.941	9871.89	249.557
K03.5	3893.392	9868.929	249.536
K03.6	3895.866	9866.749	249.514
K03.7	3898.984	9865.682	249.493

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L.247

	Station	Design Centreline RL	Existing Surface RL	Chainage
DESIGN CENTRELINE	0+00	249.666	249.616	-5.00
DESIGN CENTRELINE	0+30	249.597	249.597	0.00
DESIGN CENTRELINE	0+60	249.514	249.514	3.00
DESIGN CENTRELINE	0+90	249.493	249.518	6.00
DESIGN CENTRELINE	1+20	249.536	249.47	9.32
DESIGN CENTRELINE	1+50	249.514	249.41	12.64
DESIGN CENTRELINE	1+80	249.493	249.35	15.96
DESIGN CENTRELINE	2+10	249.407	249.32	19.27
DESIGN CENTRELINE	2+40	249.407	249.407	24.27

K03 LONGITUDINAL SECTION

KERB RETURN K04

POINT NO.	EASTING	NORTHING	RL
K04.1	3875.596	9868.818	249.651
K04.2	3878.885	9869.026	249.658
K04.3	3881.846	9870.477	249.64
K04.4	3884.025	9872.951	249.62
K04.5	3885.093	9876.071	249.601
K04.6	3885.425	9878.549	249.59
K04.7	3885.757	9881.026	249.603

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L.247

	Station	Design Centreline RL	Existing Surface RL	Chainage
DESIGN CENTRELINE	0+00	249.651	249.651	-5.00
DESIGN CENTRELINE	0+30	249.658	249.658	0.00
DESIGN CENTRELINE	0+60	249.603	249.658	3.32
DESIGN CENTRELINE	0+90	249.603	249.52	6.64
DESIGN CENTRELINE	1+20	249.601	249.620	9.96
DESIGN CENTRELINE	1+50	249.601	249.61	13.27
DESIGN CENTRELINE	1+80	249.603	249.61	16.57
DESIGN CENTRELINE	2+10	249.603	249.66	19.87
DESIGN CENTRELINE	2+40	249.603	249.603	23.17

K04 LONGITUDINAL SECTION

KERB RETURN K15

POINT NO.	EASTING	NORTHING	RL
K15.1	3866.666	9859.522	249.555
K15.2	3863.377	9859.315	249.449
K15.3	3860.416	9857.863	249.248
K15.4	3858.236	9855.39	249.051
K15.5	3857.169	9852.271	248.956

NOTE: SETOUT IS TO LIP OF KERB

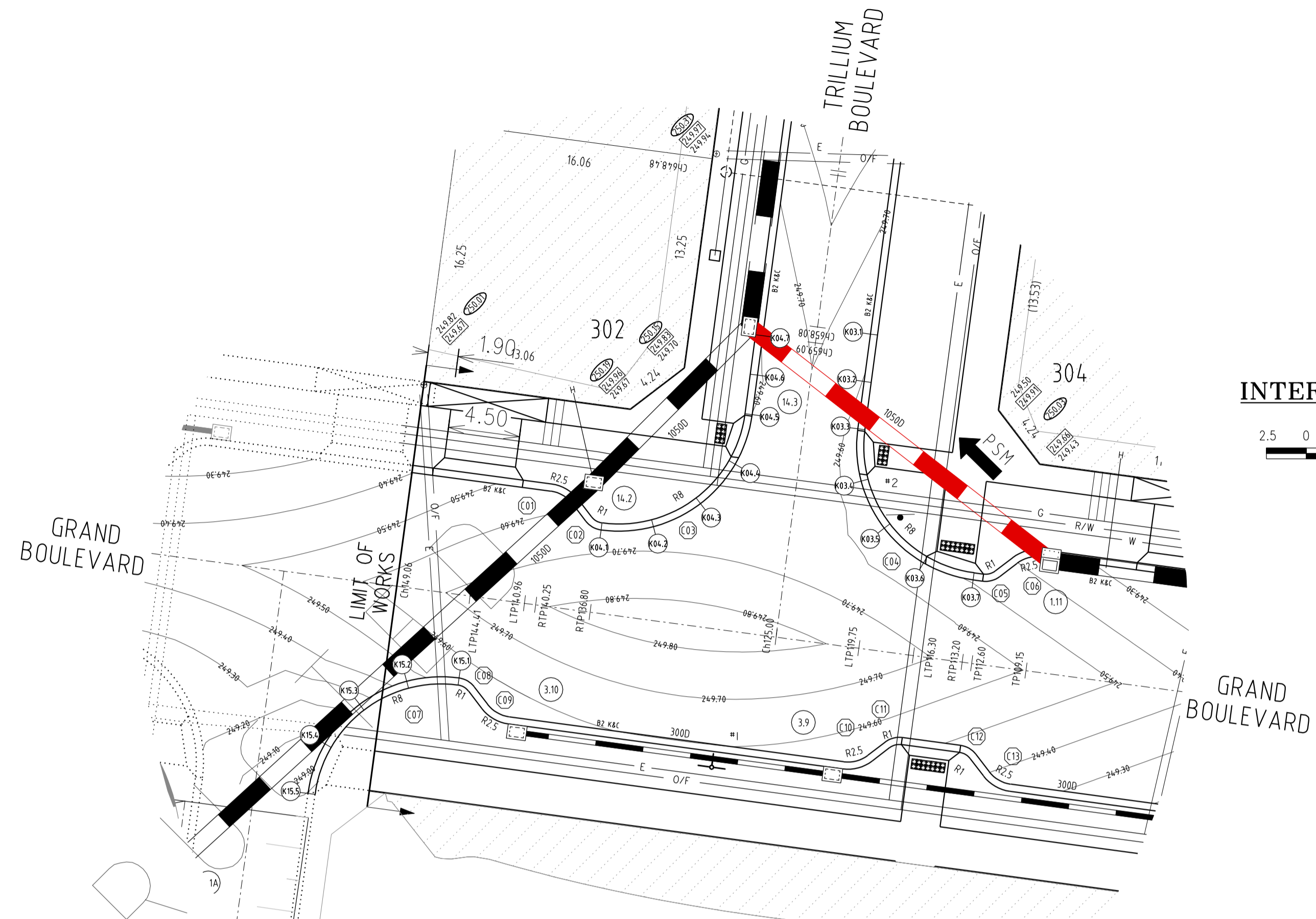
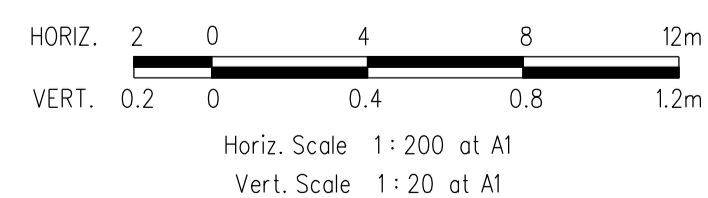
Vertical Grade
VC length

Datum R.L.247

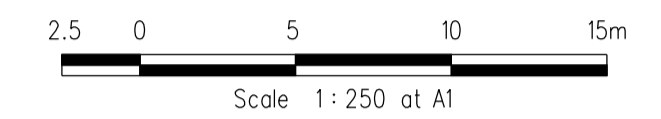
	Station	Design Centreline RL	Existing Surface RL	Chainage
DESIGN CENTRELINE	0+00	249.555	249.555	-5.00
DESIGN CENTRELINE	0+30	249.449	249.449	0.00
DESIGN CENTRELINE	0+60	249.248	249.47	3.32
DESIGN CENTRELINE	0+90	249.051	249.47	6.64
DESIGN CENTRELINE	1+20	249.051	249.051	9.95
DESIGN CENTRELINE	1+50	248.956	249.44	13.27
DESIGN CENTRELINE	1+80	248.956	248.890	16.57

K15 LONGITUDINAL SECTION

LONGITUDINAL SECTIONS



INTERSECTION DETAILS



PLAN ID. PICTORIAL CODE No.

- #1 STREET SIGN
- #2 R1-2A

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

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.

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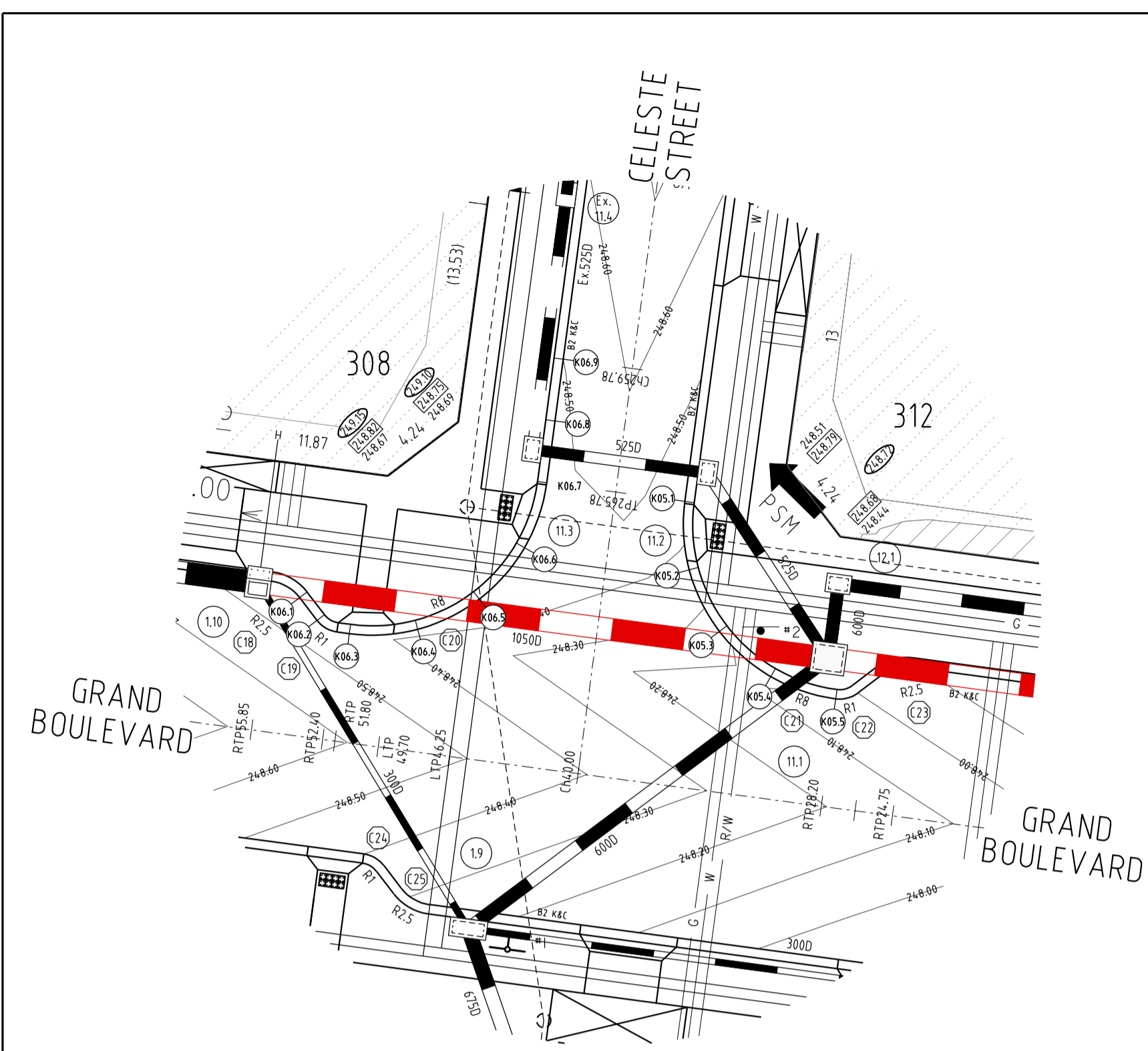
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME: K:\36182\36182\3\dgn\r05.dgn			AUTHORISED:	A.S.C DATE: AUG 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R05
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION Q
		SHEET 5 OF 28



KERB RETURN K05

POINT NO.	EASTING	NORTHING	RL
K05.1	3975.979	9863.884	248.436
K05.2	3976.187	9860.595	248.37
K05.3	3977.638	9857.634	248.243
K05.4	3980.112	9855.454	248.112
K05.5	3983.231	9854.387	248.031

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L. 246	DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
	248.489		-5.00
	248.436	248.54	0.00
	248.370	248.49	3.32
	248.243	248.44	6.64
	248.112	248.38	9.96
	248.031	248.34	13.27
	247.947		18.27

K05 LONGITUDINAL SECTION

KERB RETURN K06

POINT NO.	EASTING	NORTHING	RL
K06.1	3957.45	9859.255	248.435
K06.2	3958.287	9858.16	248.451
K06.3	3959.841	9857.523	248.47
K06.4	3963.132	9857.731	248.494
K06.5	3966.092	9859.182	248.501
K06.6	3968.271	9861.655	248.489
K06.7	3969.339	9864.776	248.473
K06.8	3969.737	9867.749	248.475
K06.9	3970.136	9870.721	248.5

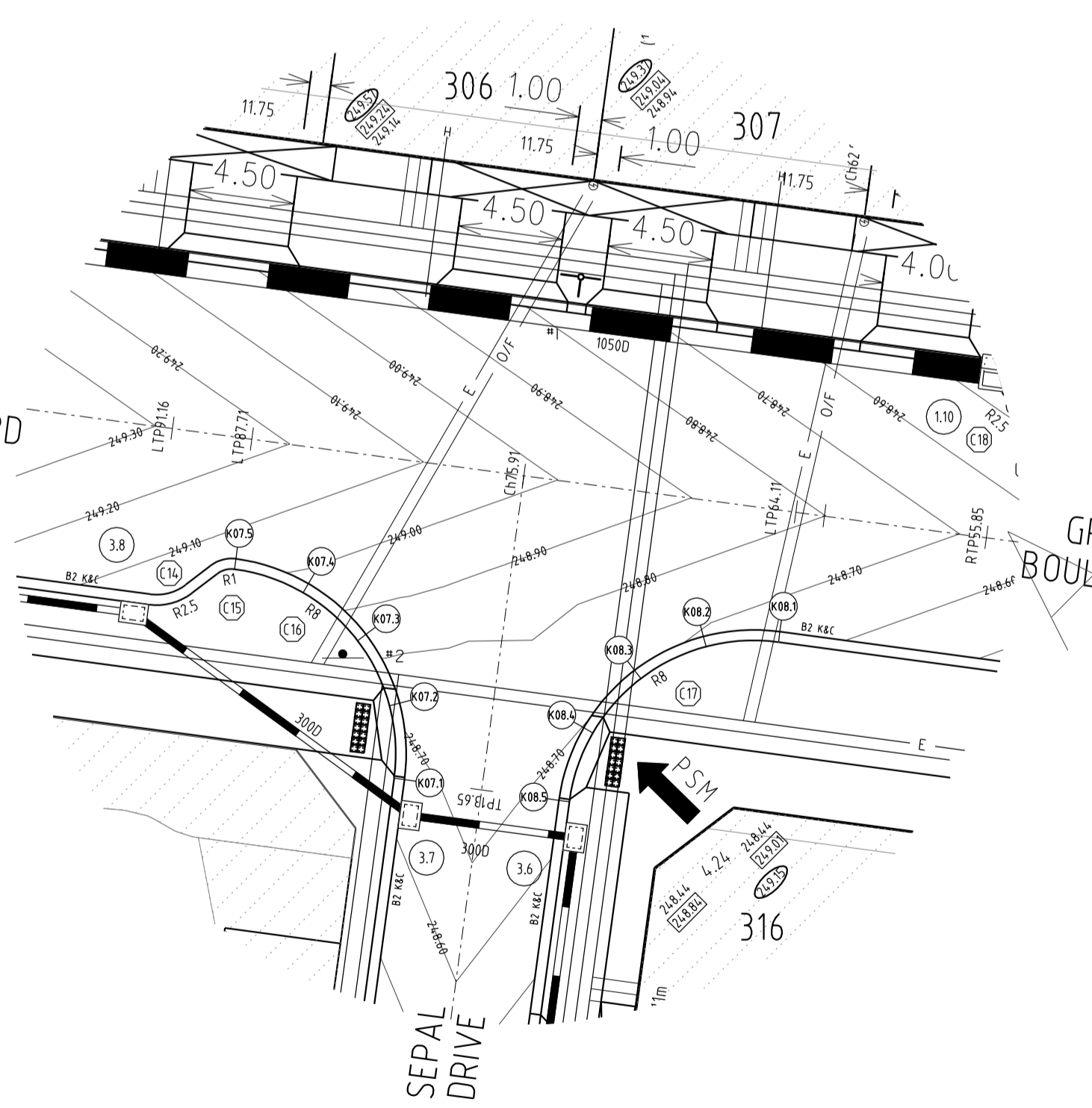
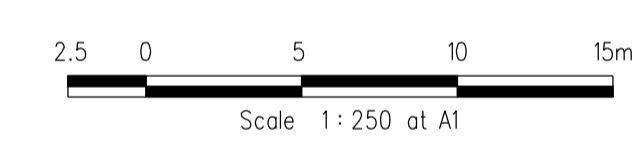
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L. 246	DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
	248.378		-5.00
	248.435	248.61	0.00
	248.451	248.59	1.38
	248.47	248.58	2.30
	248.494	248.58	2.52
	248.501	248.57	3.12
	248.489	248.56	6.44
	248.489	248.55	7.30
	248.501	248.56	9.75
	248.493	248.58	12.30
	248.489	248.58	13.07
	248.476	248.60	15.74
	248.473	248.61	16.39
	248.473	248.64	18.74
	248.475	248.65	19.39
	248.493	248.68	21.74
	248.500	248.68	22.39
	248.554		27.39

K06 LONGITUDINAL SECTION

INTERSECTION DETAILS



KERB RETURN K07

POINT NO.	EASTING	NORTHING	RL
K07.1	3930.117	9842.491	248.649
K07.2	3929.909	9845.78	248.731
K07.3	3928.458	9848.741	248.846
K07.4	3925.984	9850.92	248.965
K07.5	3922.865	9851.988	249.055

NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L. 246	DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
	248.553		-5.00
	248.649	248.66	0.00
	248.731	248.71	3.32
	248.846	248.77	6.64
	248.965	248.84	9.96
	249.055	248.91	13.27
	249.169		18.27

K07 LONGITUDINAL SECTION

KERB RETURN K08

POINT NO.	EASTING	NORTHING	RL
K08.1	3942.254	9848.852	248.649
K08.2	3942.965	9848.644	248.693
K08.3	3940.004	9847.192	248.71
K08.4	3937.824	9844.719	248.697
K08.5	3936.757	9841.6	248.649

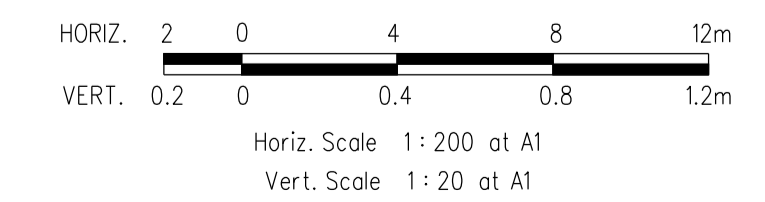
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L. 246	DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
	248.563		-5.00
	248.649	248.52	0.00
	248.693	248.55	3.32
	248.710	248.57	6.64
	248.697	248.57	9.95
	248.649	248.55	13.27
	248.553		18.27

K08 LONGITUDINAL SECTION

LONGITUDINAL SECTIONS



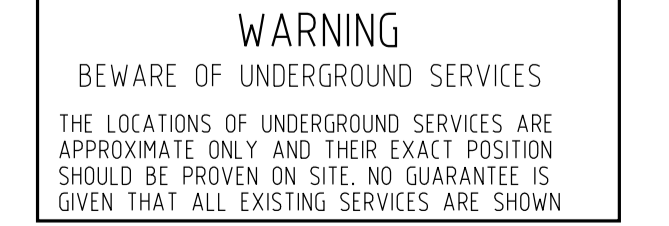
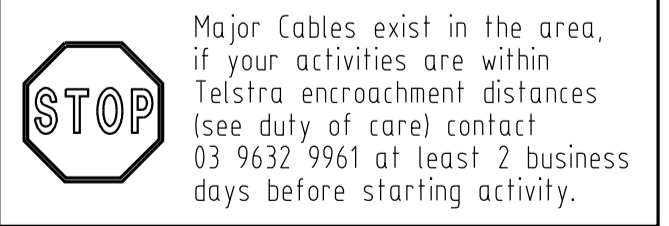
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L. DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: AUG 2012
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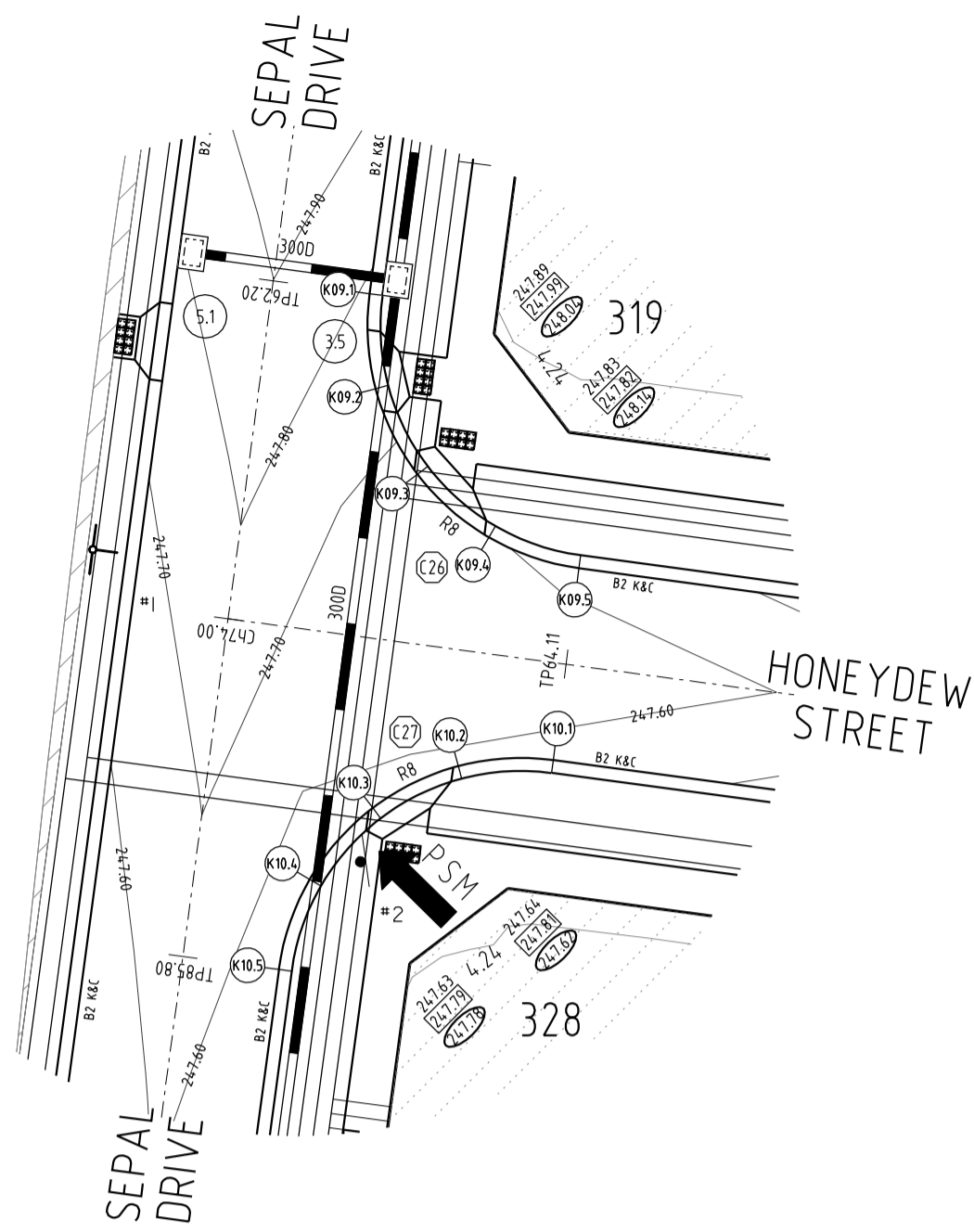


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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R06
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION Q
		SHEET 6 OF 28

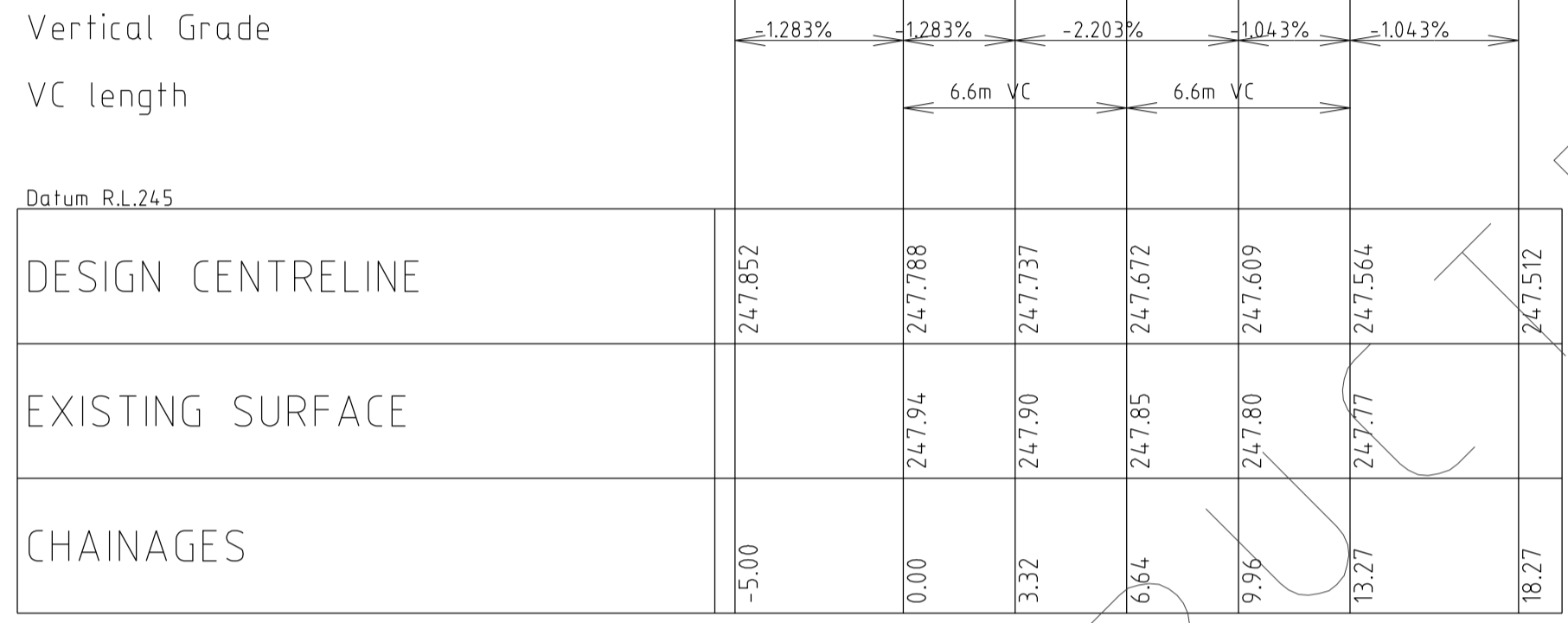




KERB RETURN K09

POINT NO.	EASTING	NORTHING	RL
K09.1	3930.305	9793.479	247.788
K09.2	3930.513	9790.19	247.737
K09.3	3931.964	9787.229	247.672
K09.4	3934.438	9785.049	247.609
K09.5	3937.557	9783.982	247.564

NOTE: SETOUT IS TO LIP OF KERB

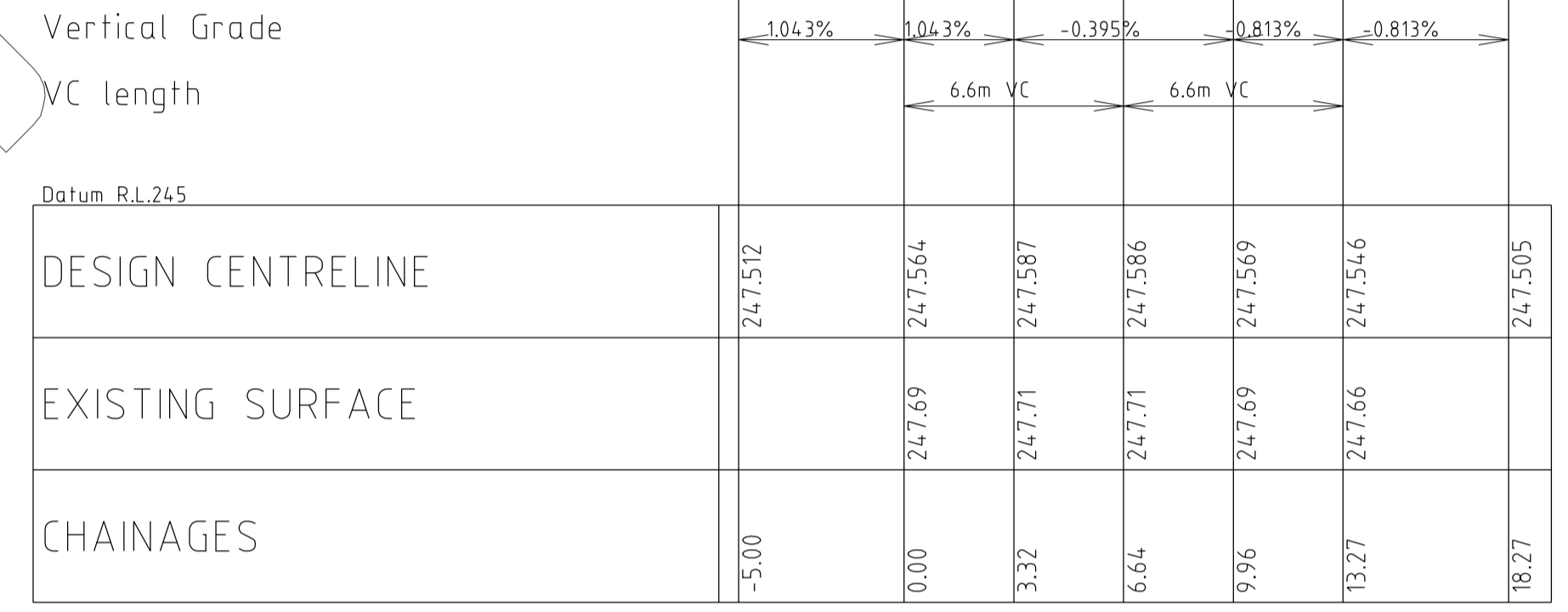


K09 LONGITUDINAL SECTION

KERB RETURN K10

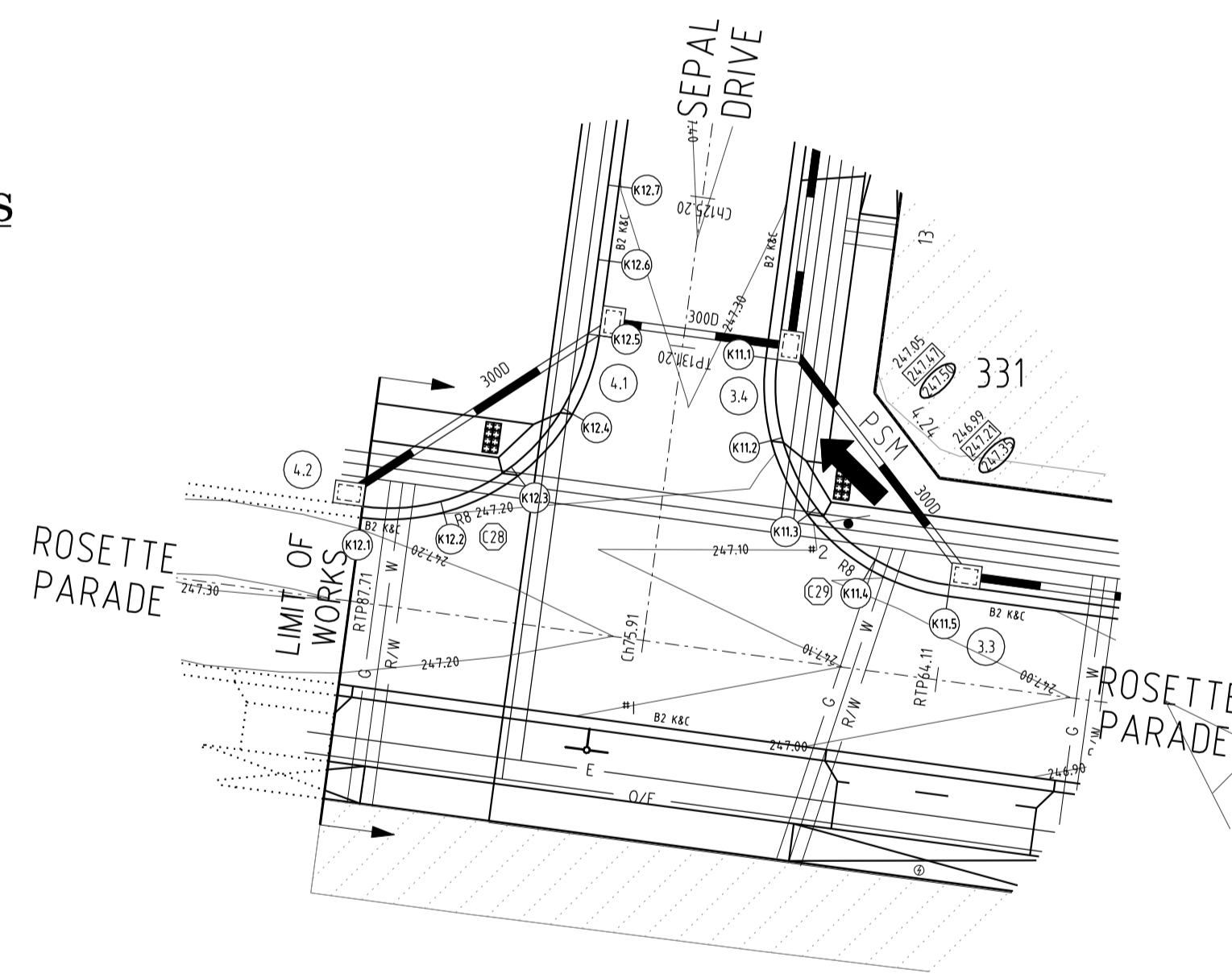
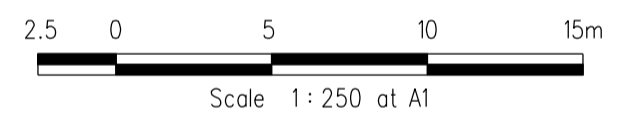
POINT NO.	EASTING	NORTHING	RL
K10.1	3936.666	9777.342	247.564
K10.2	3933.377	9777.134	247.587
K10.3	3930.416	9775.683	247.586
K10.4	3928.236	9773.209	247.569
K10.5	3927.169	9770.09	247.546

NOTE: SETOUT IS TO LIP OF KERB



K10 LONGITUDINAL SECTION

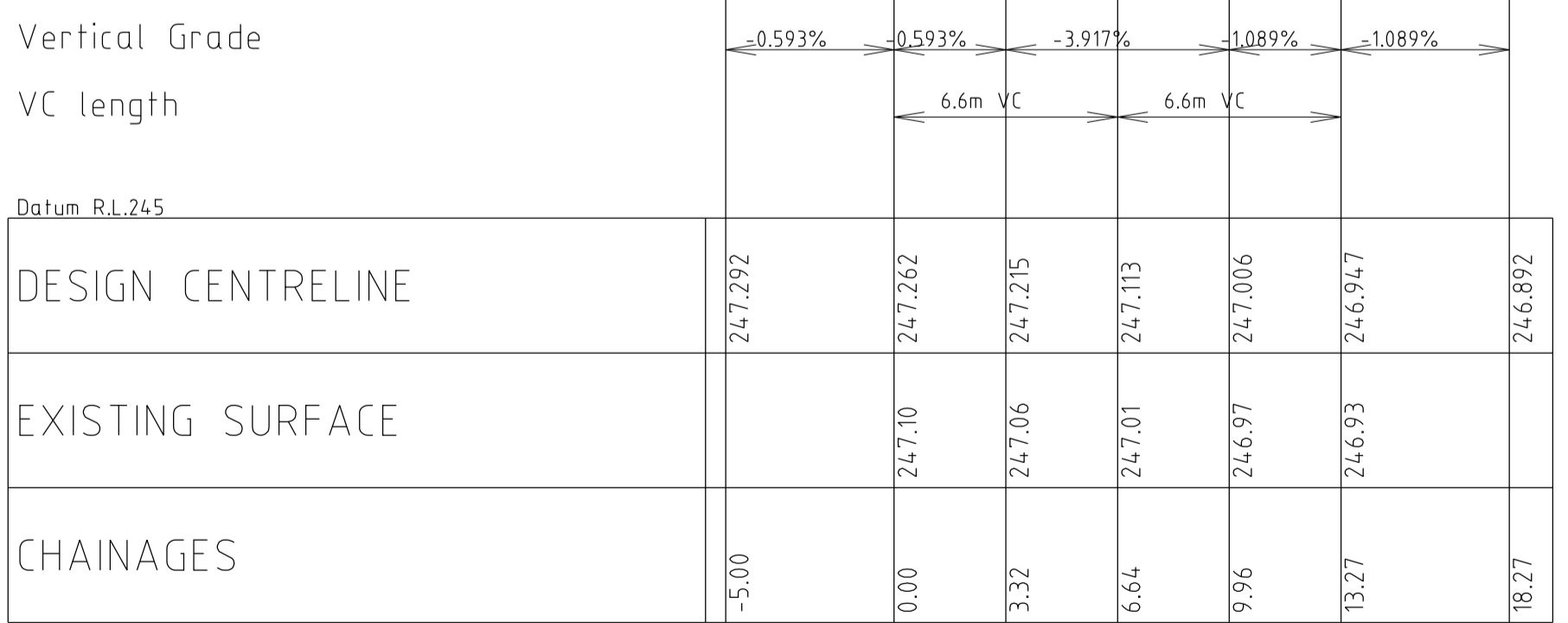
INTERSECTION DETAILS



KERB RETURN K11

POINT NO.	EASTING	NORTHING	RL
K11.1	3921.136	9725.091	247.262
K11.2	3921.344	9721.802	247.215
K11.3	3922.795	9718.841	247.113
K11.4	3925.269	9716.661	247.006
K11.5	3928.388	9715.594	246.947

NOTE: SETOUT IS TO LIP OF KERB

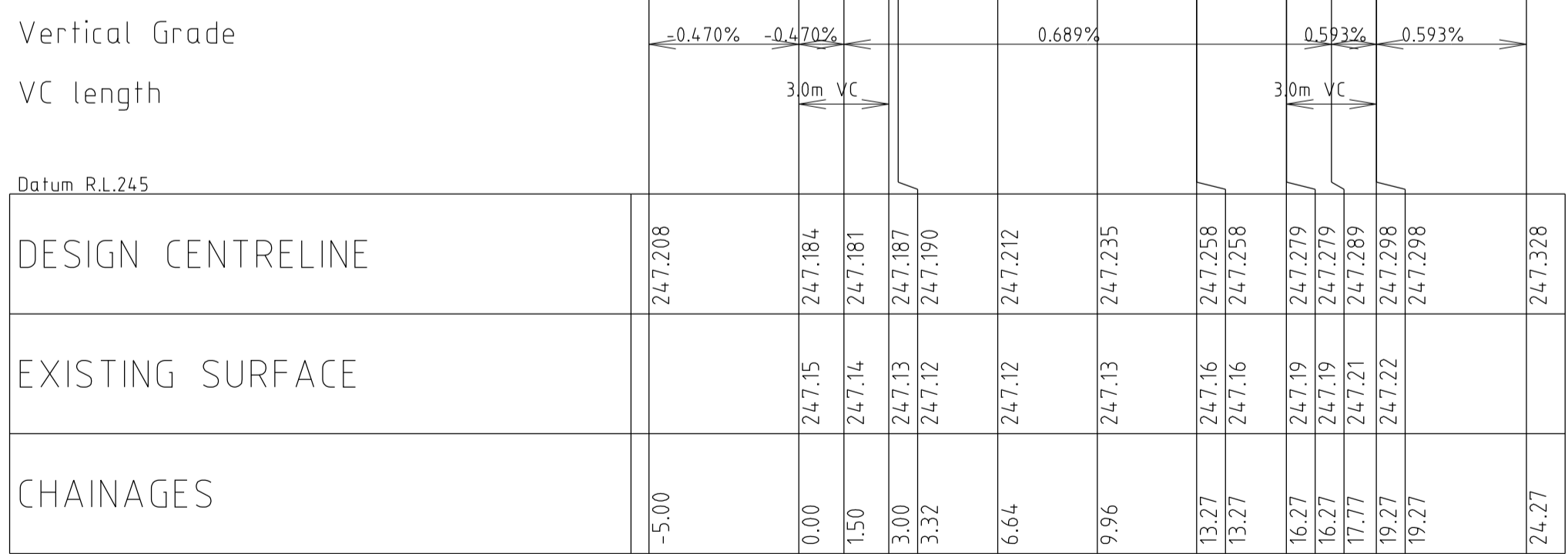


K11 LONGITUDINAL SECTION

KERB RETURN K12

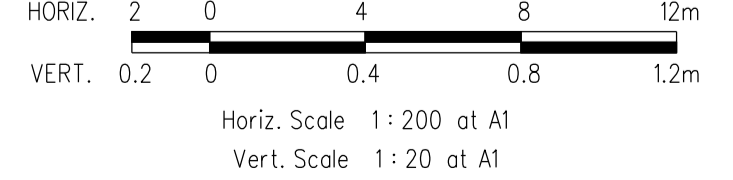
POINT NO.	EASTING	NORTHING	RL
K12.1	3904.999	9718.73	247.184
K12.2	3908.288	9718.937	247.190
K12.3	3911.249	9720.389	247.212
K12.4	3913.429	9722.862	247.235
K12.5	3914.496	9725.983	247.258
K12.6	3914.894	9728.956	247.279
K12.7	3915.293	9731.928	247.298

NOTE: SETOUT IS TO LIP OF KERB



K12 LONGITUDINAL SECTION

LONGITUDINAL SECTIONS



REVISIONS			SCALE: AS SHOWN	
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
09/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME: K:\36182\36182\3\dgn\07.dgn			AUTHORISED:	A.S.C DATE: AUG 2012

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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R07
INTERSECTION DETAILS & LIP OF KERB PROFILES		REVISION Q
		SHEET 7 OF 28

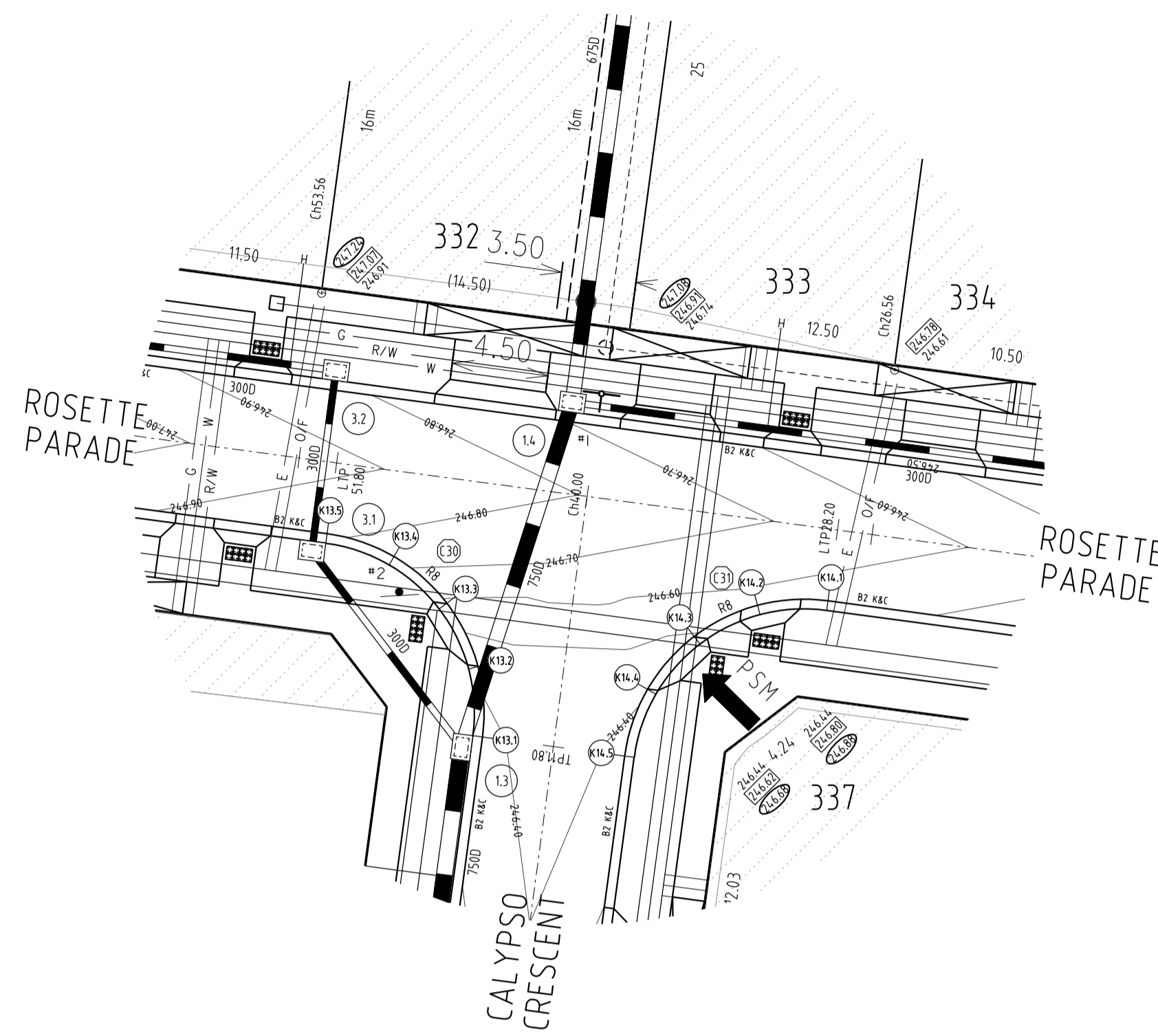
PLAN I.D.	PICTORIAL	CODE No.
#1		STREET SIGN
#2		R1-2A

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KERB RETURN K13

POINT NO.	EASTING	NORTHING	RL
K13.1	3946.954	9697.82	246.363
K13.2	3946.747	9701.109	246.433
K13.3	3945.295	9704.071	246.585
K13.4	3942.822	9706.25	246.738
K13.5	3939.703	9707.317	246.813

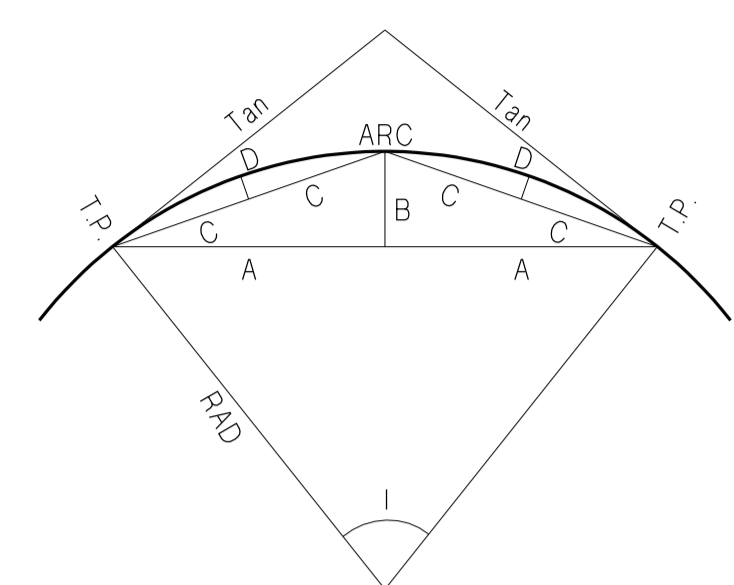
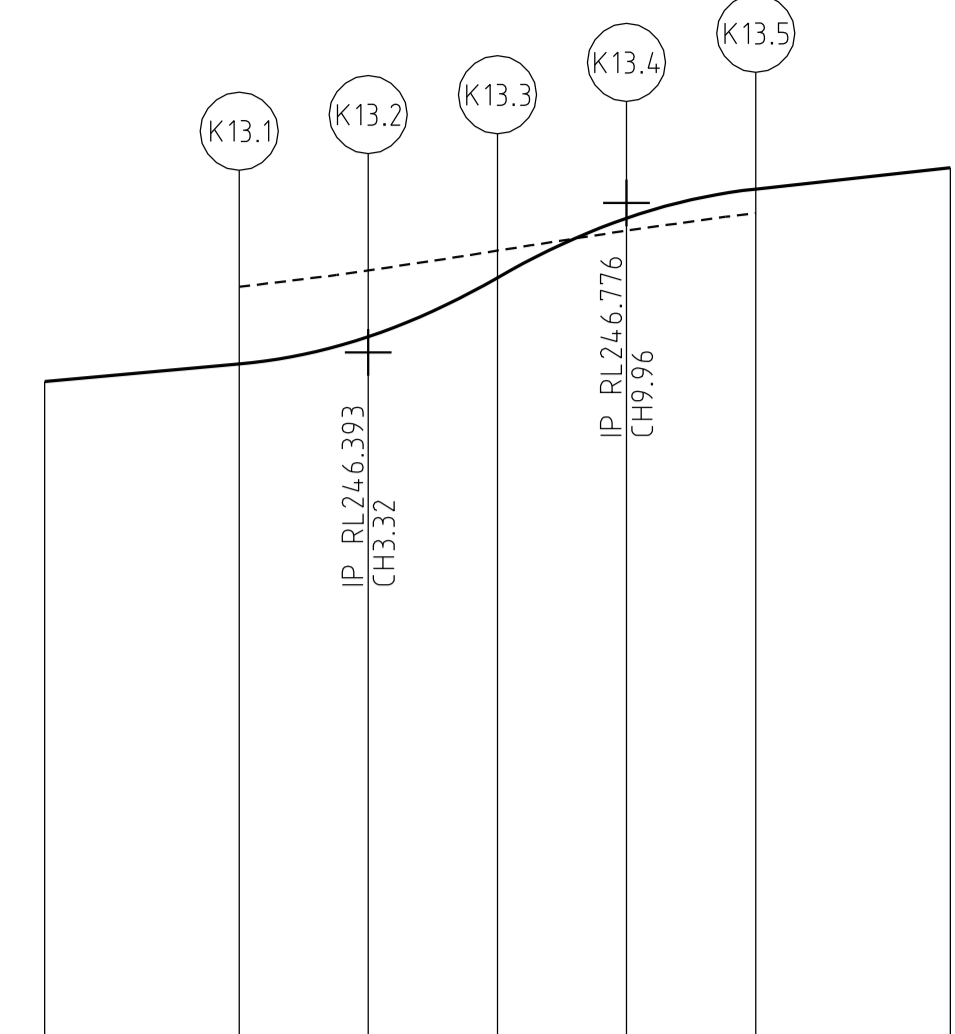
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

Datum R.L. 24.4

	246.318	246.363	246.433	246.585	246.738	246.813	246.867
DESIGN CENTRELINE							
EXISTING SURFACE		246.56	246.60	246.65	246.71	246.75	
CHAINAGES	-5.00	0.00	3.32	6.64	9.96	13.27	18.27

K13 LONGITUDINAL SECTION



CURVE SETOUT TABLE

Curve	Radius	l	o	"	Arc	Tan	A	B	C	D	
1	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
2	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
3	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
4	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
5	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
6	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
7	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
8	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
9	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
10	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
11	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
12	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
13	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
14	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
15	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
16	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
17	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
18	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
19	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
20	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
21	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
22	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
23	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
24	1	44.98	44	58	38	0.785	0.41	0.38	0.08	0.19	0.02
25	2.5	44.99	44	59	19	1.963	1.04	0.96	0.19	0.49	0.05
26	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
27	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
28	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
29	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
30	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61
31	8	90.00	89	59	51	12.566	8.00	5.66	2.34	3.06	0.61

KERB RETURN K14

POINT NO.	EASTING	NORTHING	RL
K14.1	3963.092	9704.181	246.556
K14.2	3959.803	9703.974	246.558
K14.3	3956.841	9702.522	246.492
K14.4	3954.662	9700.049	246.41
K14.5	3953.595	9696.929	246.363

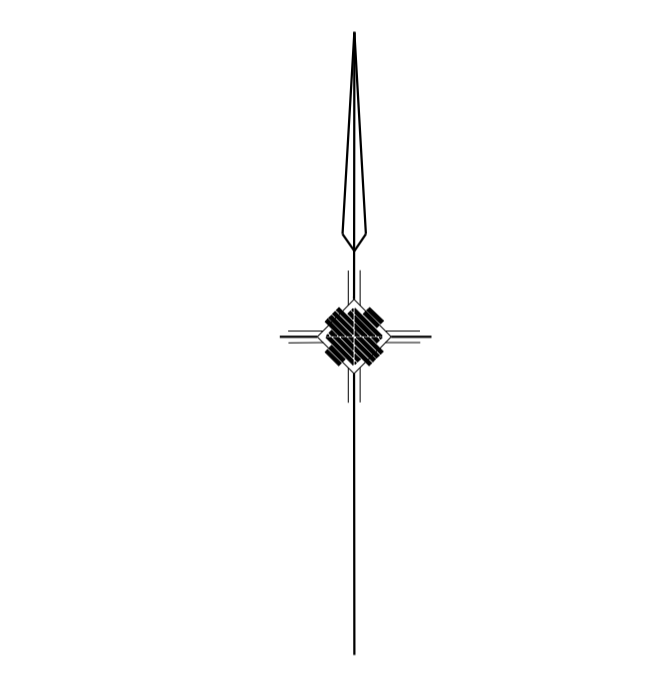
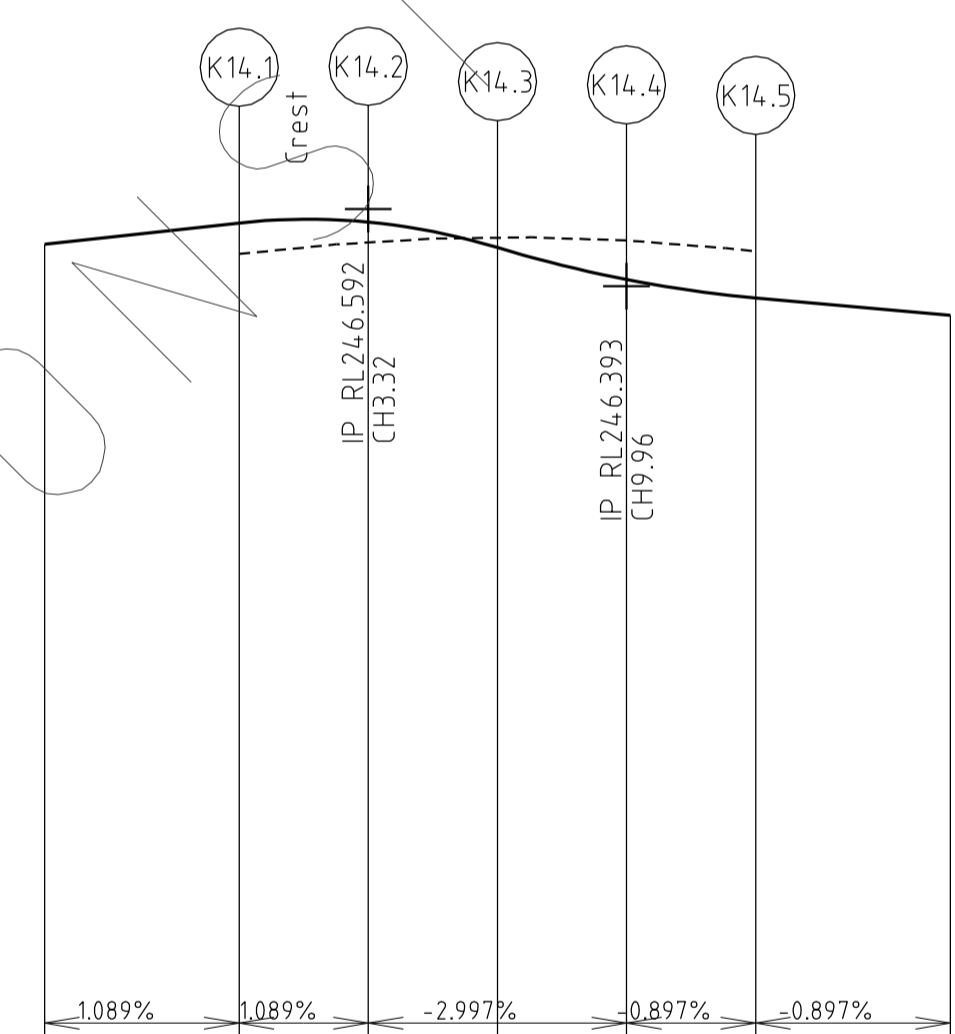
NOTE: SETOUT IS TO LIP OF KERB

Vertical Grade
VC length

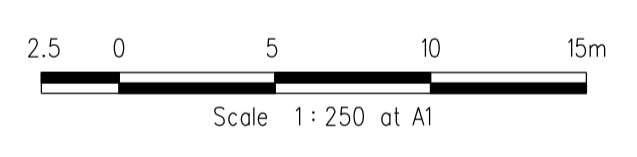
Datum R.L. 24.4

	246.501	246.556	246.558	246.492	246.410	246.363	246.318
DESIGN CENTRELINE							
EXISTING SURFACE		246.48	246.51	246.52	246.51	246.48	
CHAINAGES	-5.00	0.00	3.32	6.64	9.96	13.27	18.27

K14 LONGITUDINAL SECTION



INTERSECTION DETAILS



PLAN I.D. PICTORIAL CODE No.

- *1 STREET SIGN
- *2 R1-2A

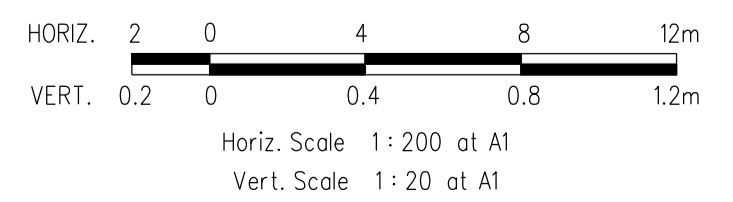
ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS FOR ROAD AND DRAINAGE WORKS

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

LONGITUDINAL SECTIONS



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L. DATE: AUG 2012
00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L. DATE: AUG 2012
FILENAME: K:\36182\36182\3\dgn\08.dgn			AUTHORISED:	A.S.C. DATE: AUG 2012

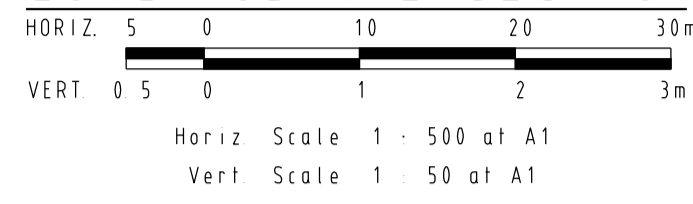


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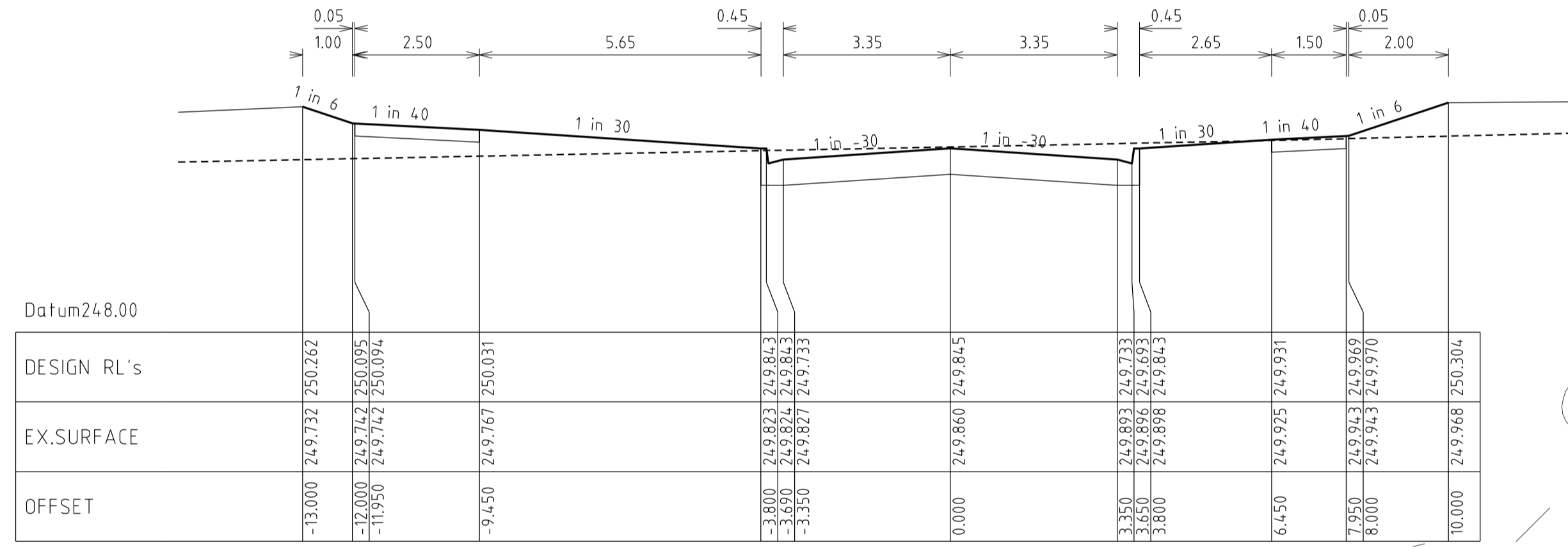
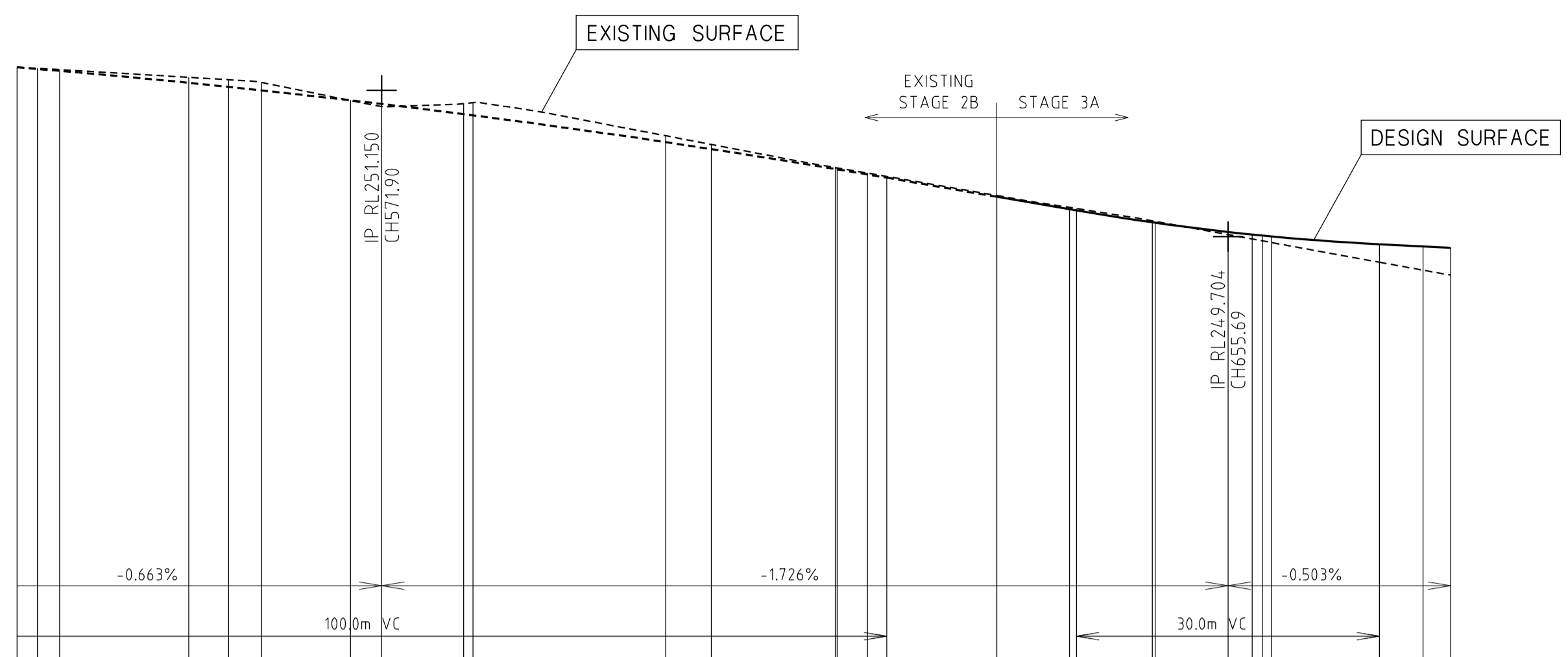
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R08
INTERSECTION DETAILS, LIP OF KERB PROFILES & CURVE SETOUT TABLE		REVISION Q
		SHEET 8 OF 28

**TRILLIUM BOULEVARD
LONGITUDINAL SECTION**



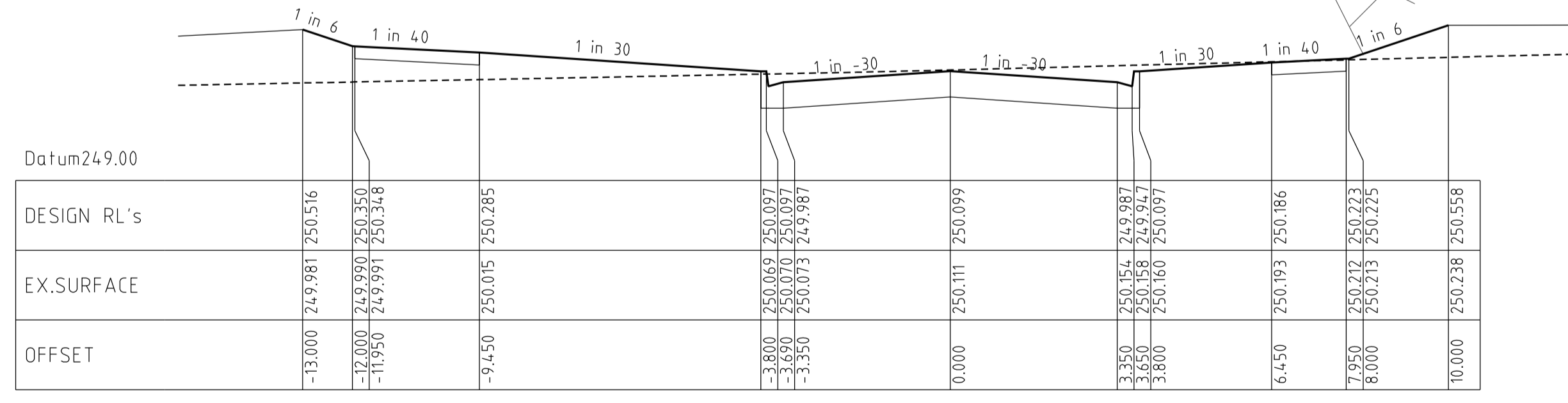
Horizontal Geometry
Vertical Grade
VC length

Datum RL 245	DESIGN CENTRELINE	EXISTING SURFACE	CHAINAGES
	535.80	251.38	535.80
	537.80	251.37	537.80
	540.00	251.36	540.00
	552.80	251.28	552.80
	556.73	251.26	556.73
	560.00	251.23	560.00
	568.80	251.05	568.80
	571.90	250.99	571.90
	580.00	251.02	580.00
	580.93	251.03	580.93
	600.00	250.70	600.00
	604.53	250.62	604.53
	616.80	250.39	616.80
	616.98	250.39	616.98
	620.00	250.33	620.00
	621.90	250.30	621.90
	632.80	250.11	632.80
	640.00	249.99	640.00
	640.69	249.98	640.69
	648.20	249.86	648.20
	648.48	249.86	648.48
	655.69	249.72	655.69
	658.08	249.68	658.08
	659.09	249.66	659.09
	660.00	249.65	660.00
	670.69	249.45	670.69
	675.00	249.37	675.00
	677.73	249.32	677.73



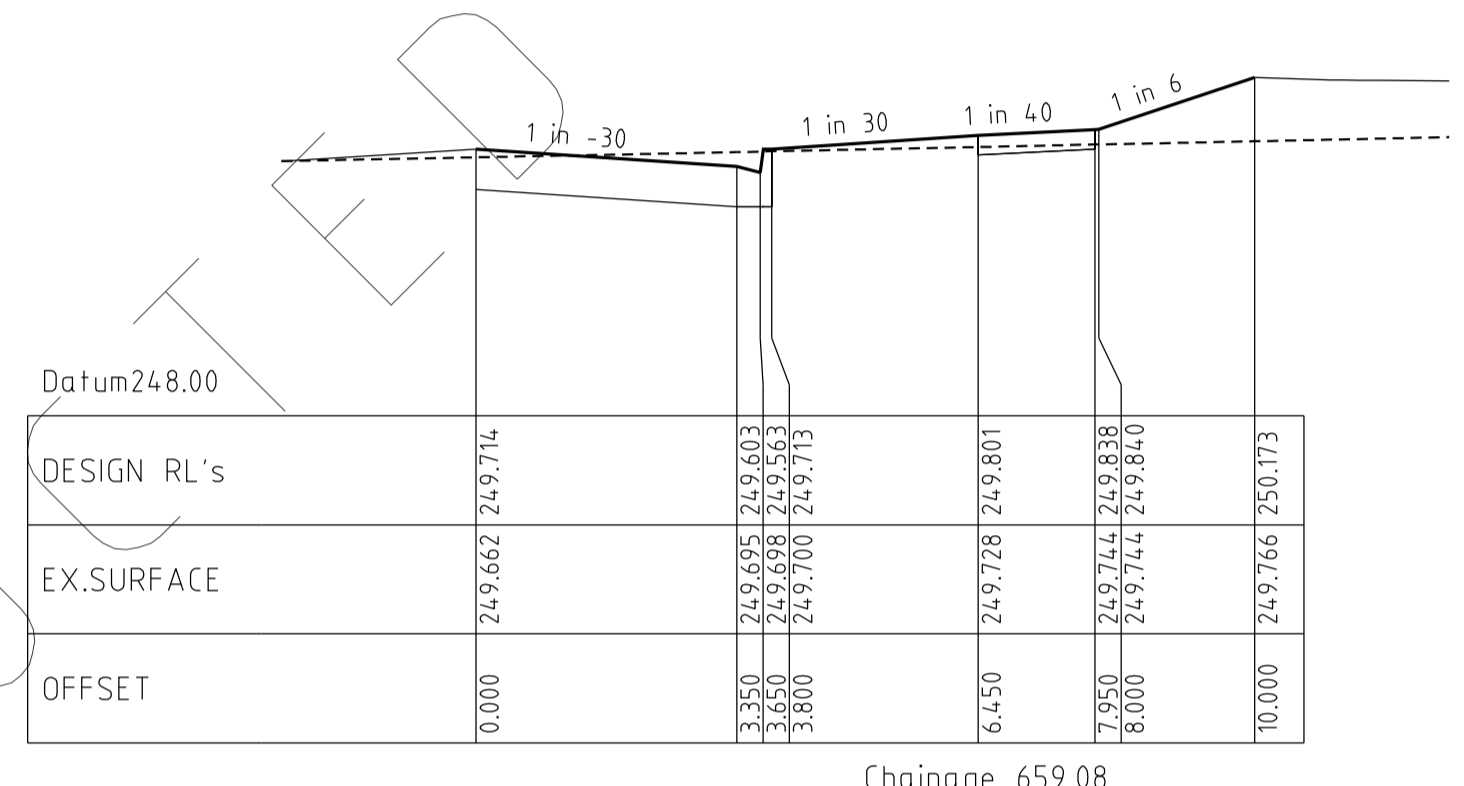
Datum 248.00	DESIGN RL's	EX.SURFACE	OFFSET
	-13.000	249.732	250.262
	-12.000	249.742	250.095
	-11.950	249.742	250.094
	-9.450	249.767	250.031
	-3.800	249.823	249.843
	-3.690	249.824	249.843
	-3.350	249.827	249.733
	0.000	249.860	249.845
	3.350	249.893	249.733
	3.650	249.896	249.693
	3.800	249.898	249.843
	6.450	249.925	249.931
	7.950	249.943	249.969
	8.000	249.943	249.970
	10.000	249.968	250.304

Chainage 648.20



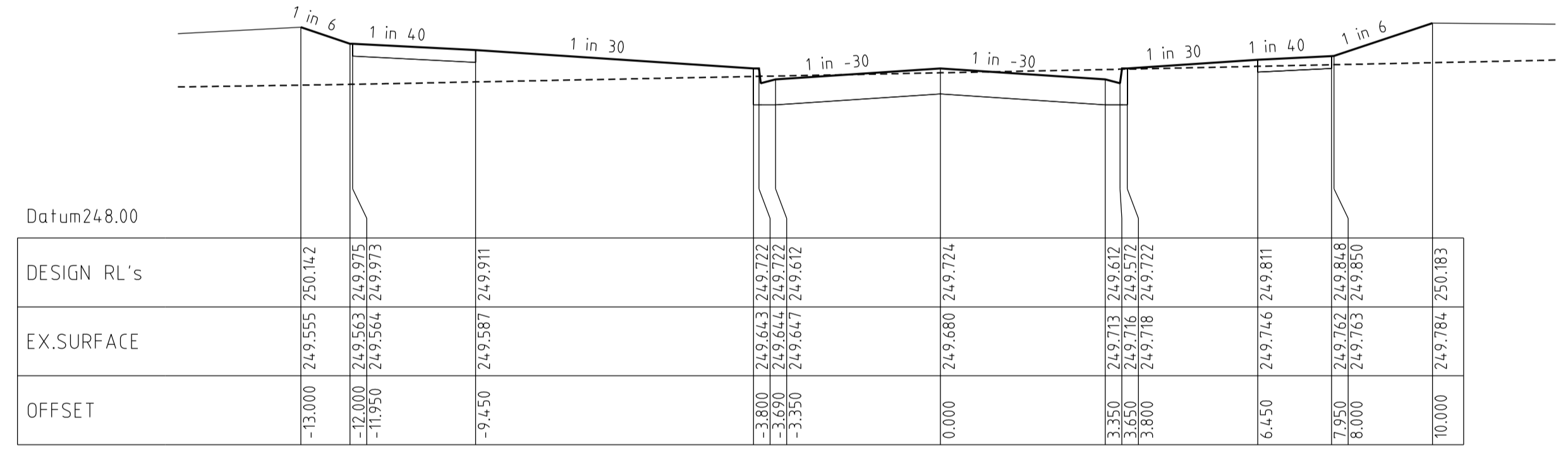
Datum 249.00	DESIGN RL's	EX.SURFACE	OFFSET
	-13.000	249.981	250.516
	-12.000	249.990	250.350
	-11.950	249.991	250.348
	-9.450	250.015	250.285
	-3.800	250.069	250.097
	-3.690	250.070	250.097
	-3.350	250.073	249.987
	0.000	250.111	250.099
	3.350	250.154	249.987
	3.650	250.158	249.647
	3.800	250.160	250.097
	6.450	250.193	250.086
	7.950	250.212	250.223
	8.000	250.215	250.225
	10.000	250.238	250.558

Chainage 632.80



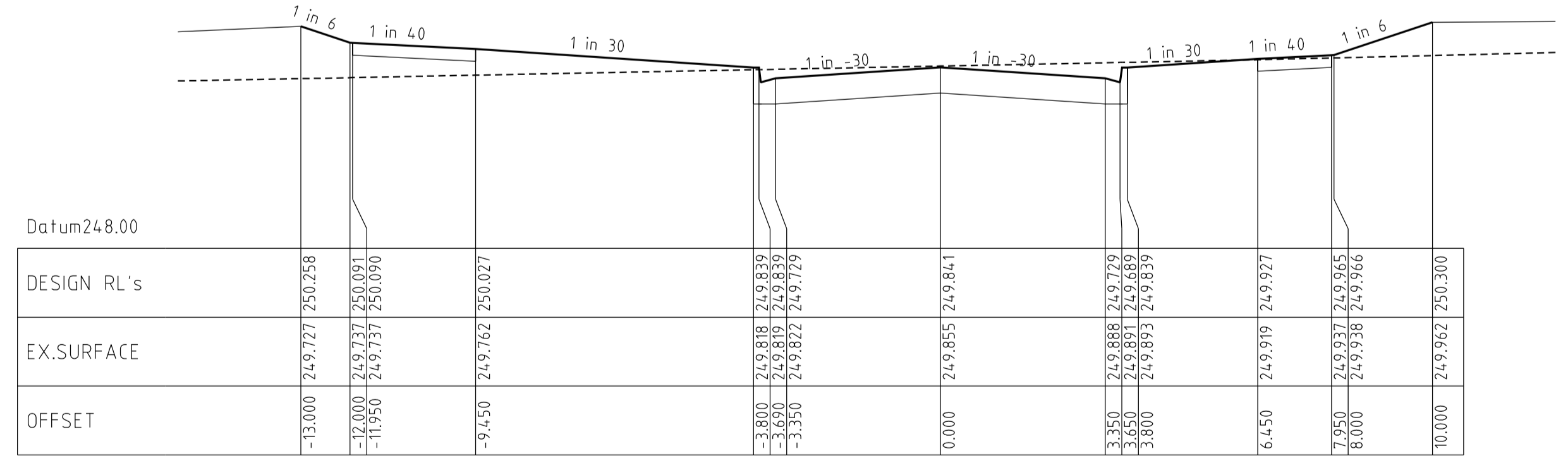
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	0.000	249.662	249.714
	3.350	249.695	249.603
	3.650	249.698	249.553
	3.800	249.700	249.713
	6.450	249.728	249.801
	7.950	249.744	249.838
	8.000	249.744	249.840
	10.000	249.766	250.173

Chainage 659.08



Datum 248.00	DESIGN RL's	EX.SURFACE	OFFSET
	-13.000	249.555	250.142
	-12.000	249.563	249.975
	-11.950	249.564	249.973
	-9.450	249.587	249.911
	-3.800	249.643	249.722
	-3.690	249.647	249.712
	-3.350	249.647	249.712
	0.000	249.680	249.724
	3.350	249.713	249.612
	3.650	249.716	249.577
	3.800	249.718	249.722
	6.450	249.746	249.811
	7.950	249.762	249.838
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	10.000	249.784	250.183

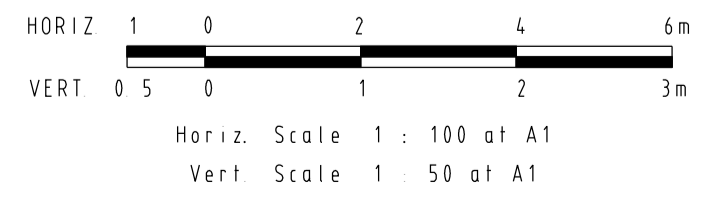
Chainage 658.08



Datum 248.00	DESIGN RL's	EX.SURFACE	OFFSET
	-13.000	249.727	250.258
	-12.000	249.737	250.091
	-11.950	249.737	250.090
	-9.450	249.762	250.027
	-3.800	249.818	249.839
	-3.690	249.822	249.729
	-3.350	249.822	249.729
	0.000	249.855	249.841
	3.350	249.888	249.729
	3.650	249.891	249.689
	3.800	249.893	249.839
	6.450	249.919	249.927
	7.950	249.937	249.955
	8.000	249.938	249.966
	10.000	249.962	250.300

Chainage 648.48

**TRILLIUM BOULEVARD
CROSS SECTIONS**

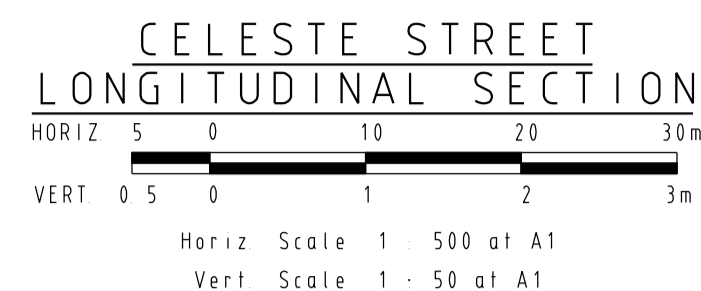


REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME K:\36182\36182 3\dgn\r09.dgn			AUTHORISED:	A.S.C DATE: AUG 2012



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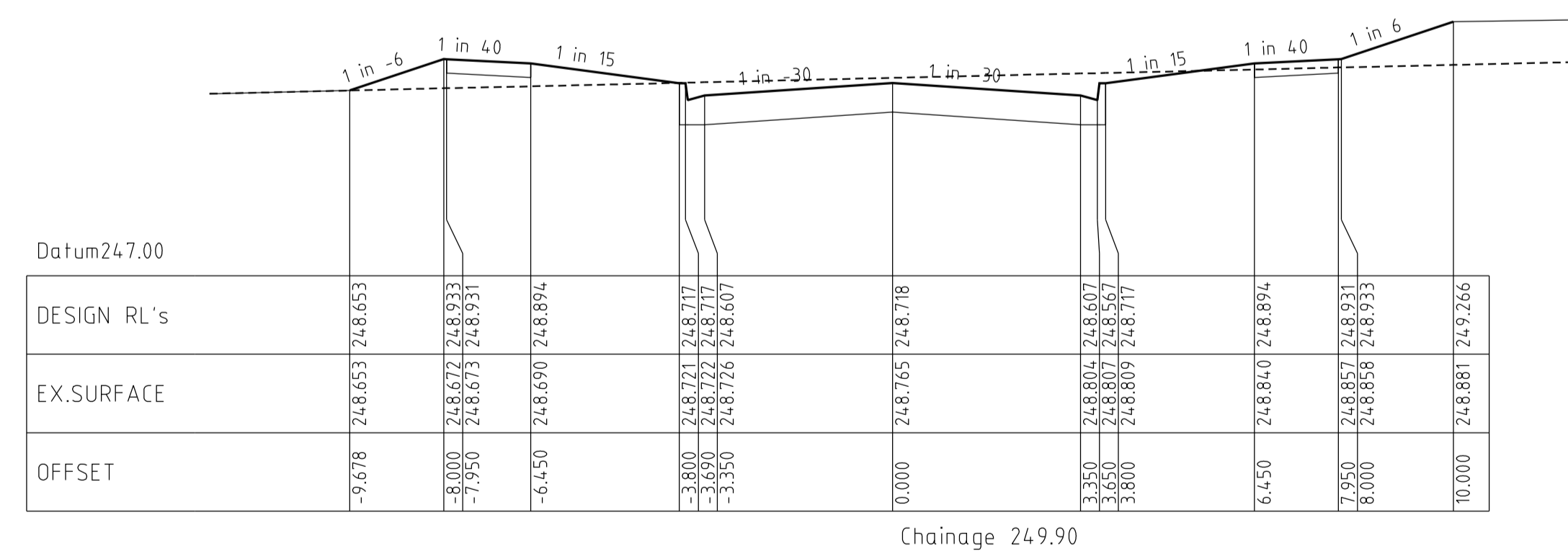
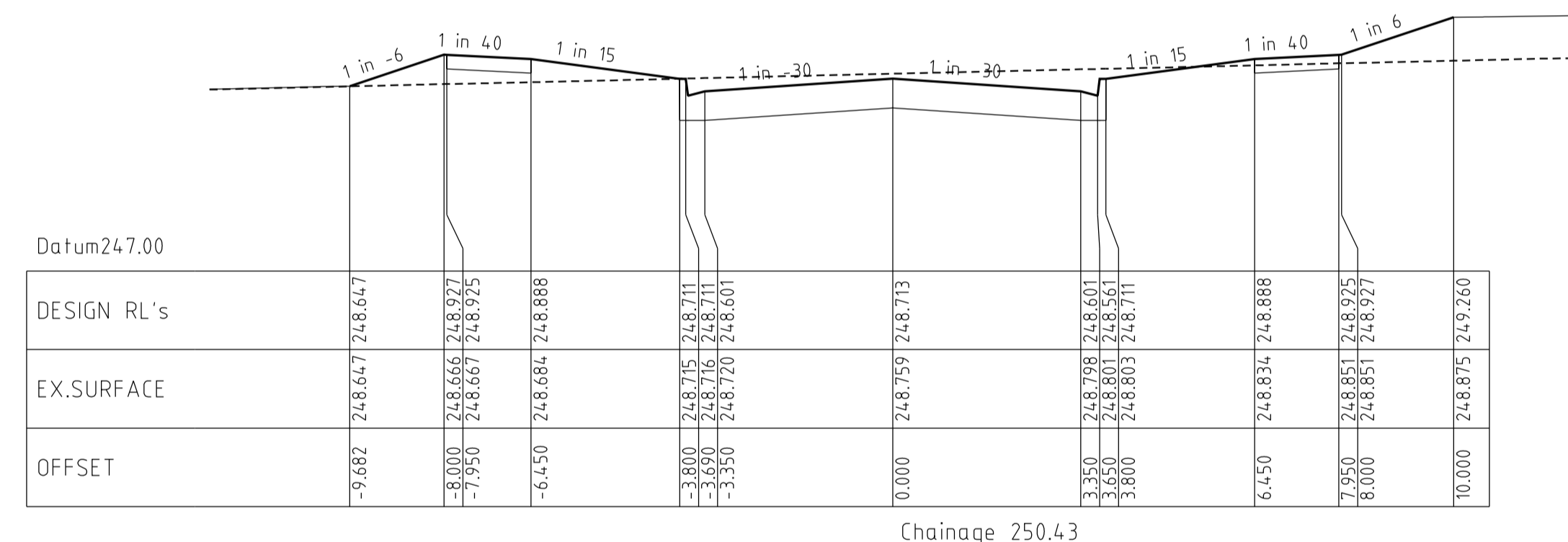
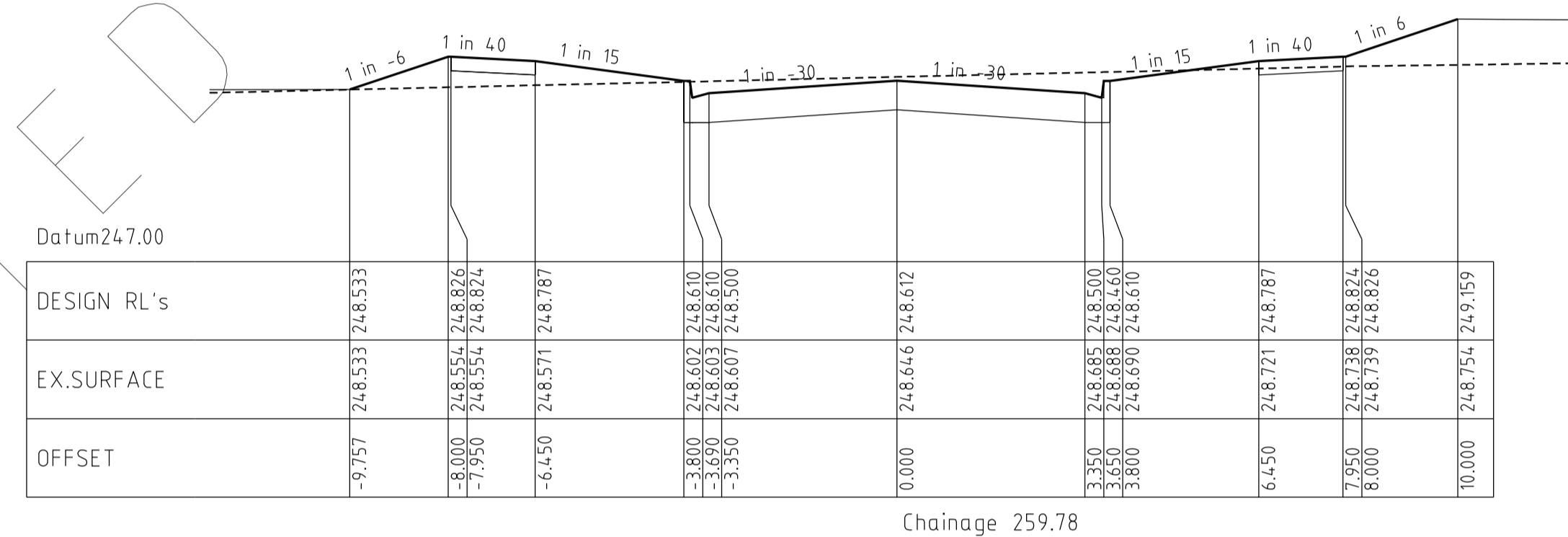
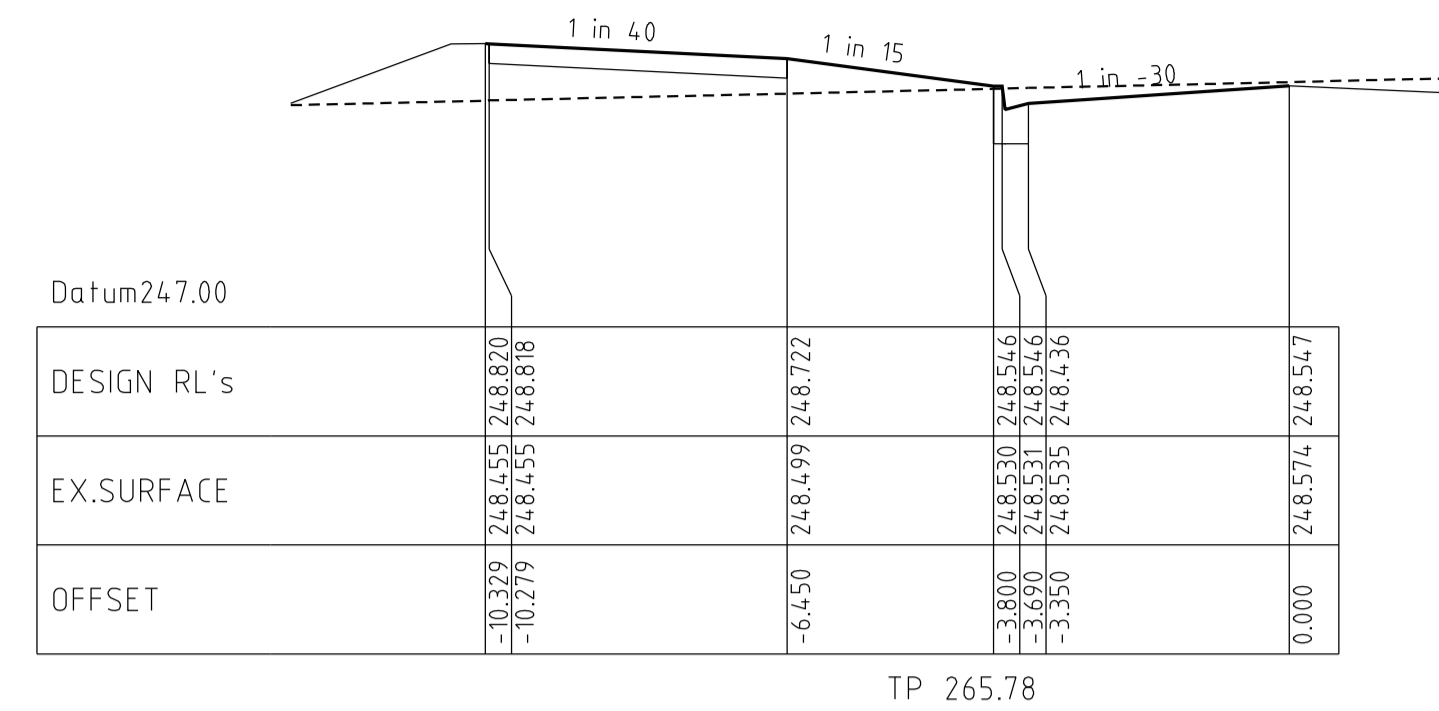
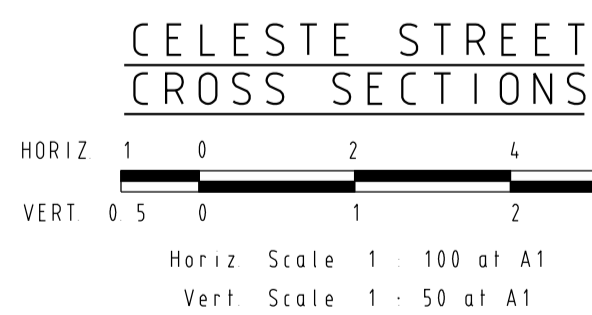
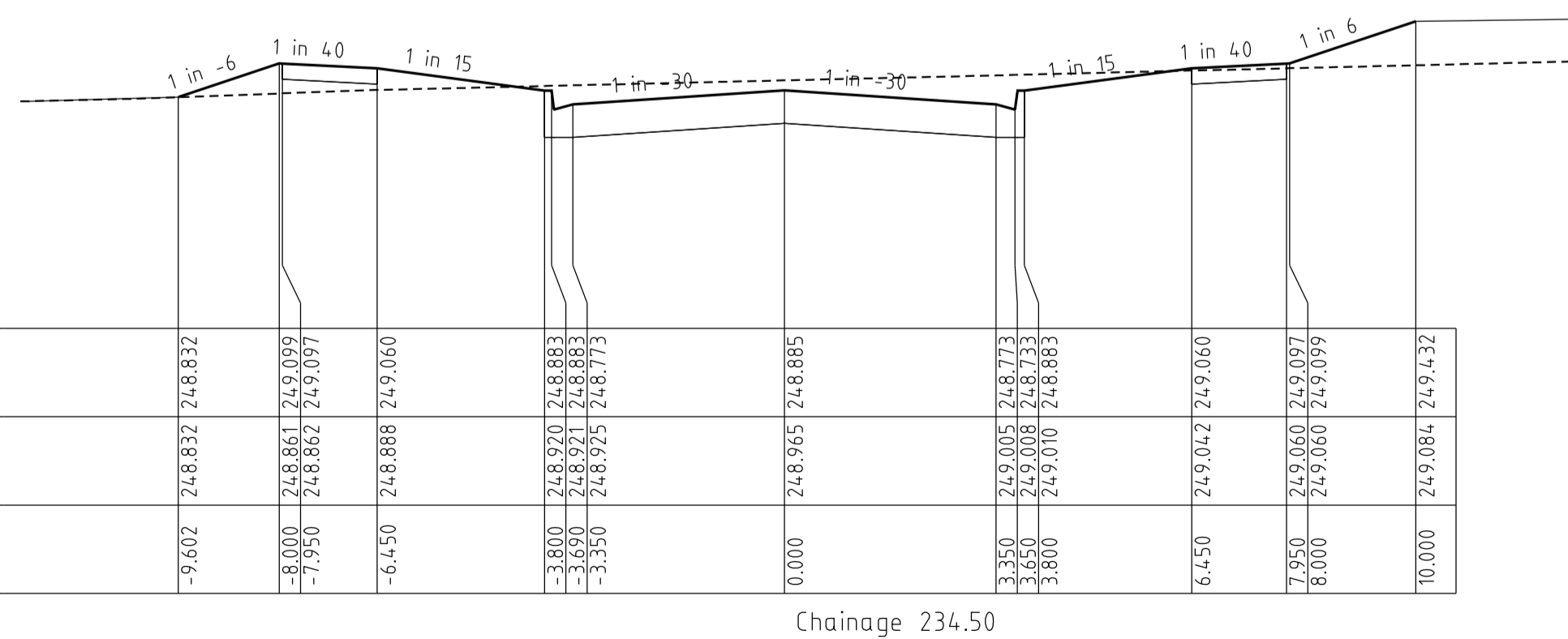
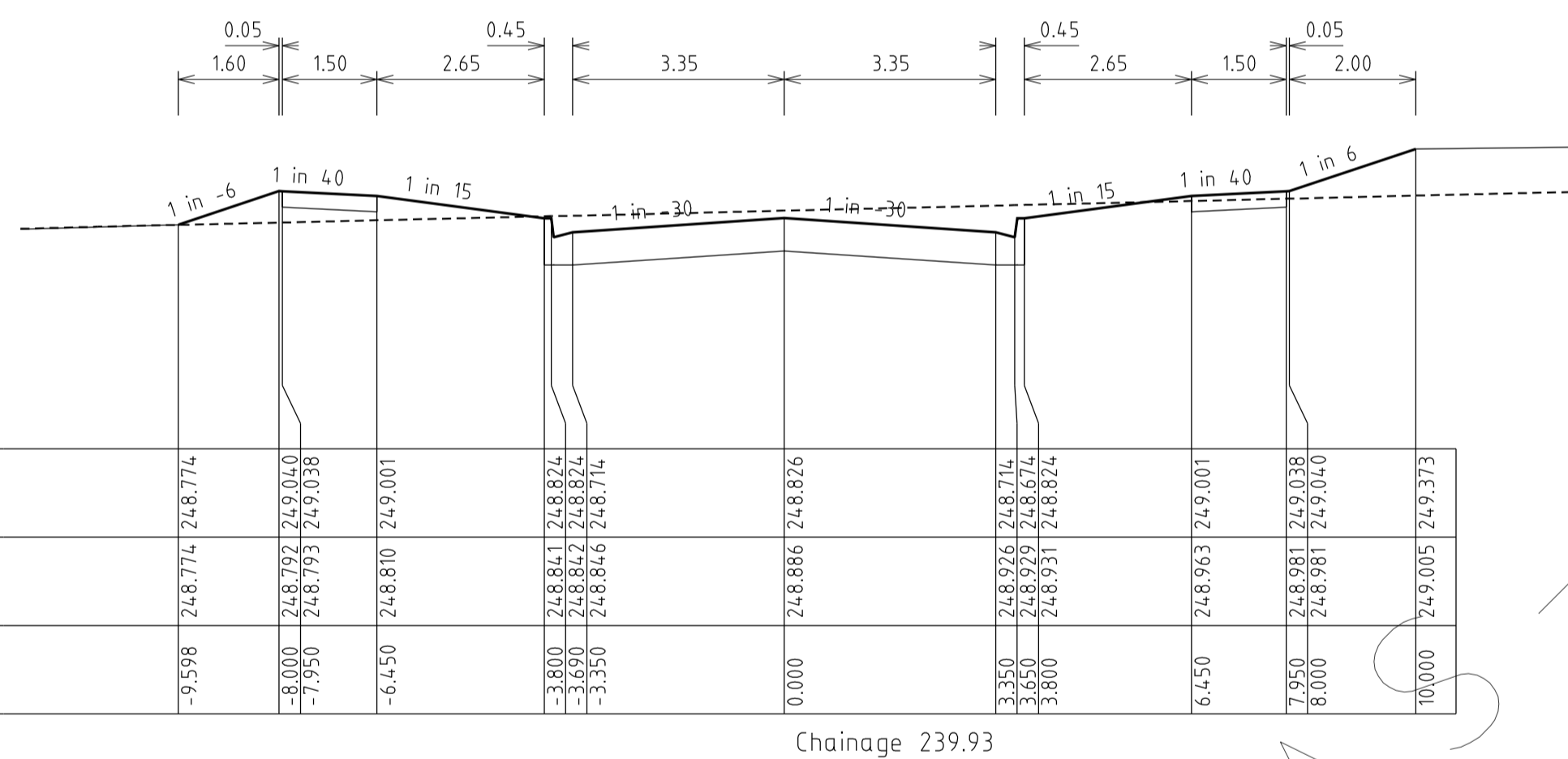
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R09
TRILLIUM BOULEVARD LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 9 OF 28



Horizontal Geometry
Vertical Grade
VC length

Datum RL 24.4

CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
137.50	249.938	249.938
140.00	249.909	249.909
144.50	249.92	249.869
151.50	249.83	249.780
157.86	249.77	249.711
159.50	249.75	249.693
160.00	249.75	249.688
165.50	249.71	249.629
172.00	249.65	249.558
180.00	249.56	249.472
181.50	249.54	249.456
184.50	249.51	249.424
194.00	249.40	249.321
198.50	249.35	249.273
200.00	249.33	249.257
204.50	249.28	249.208
214.50	249.18	249.100
218.50	249.15	249.057
220.00	249.13	249.041
226.50	249.08	248.971
227.00	249.07	248.965
234.50	248.96	248.885
239.93	248.89	248.826
240.00	248.88	248.825
249.90	248.77	248.718
250.43	248.76	248.713
259.78	248.65	248.612
260.00	248.64	248.610
265.78	248.57	248.547
279.43	248.40	248.400

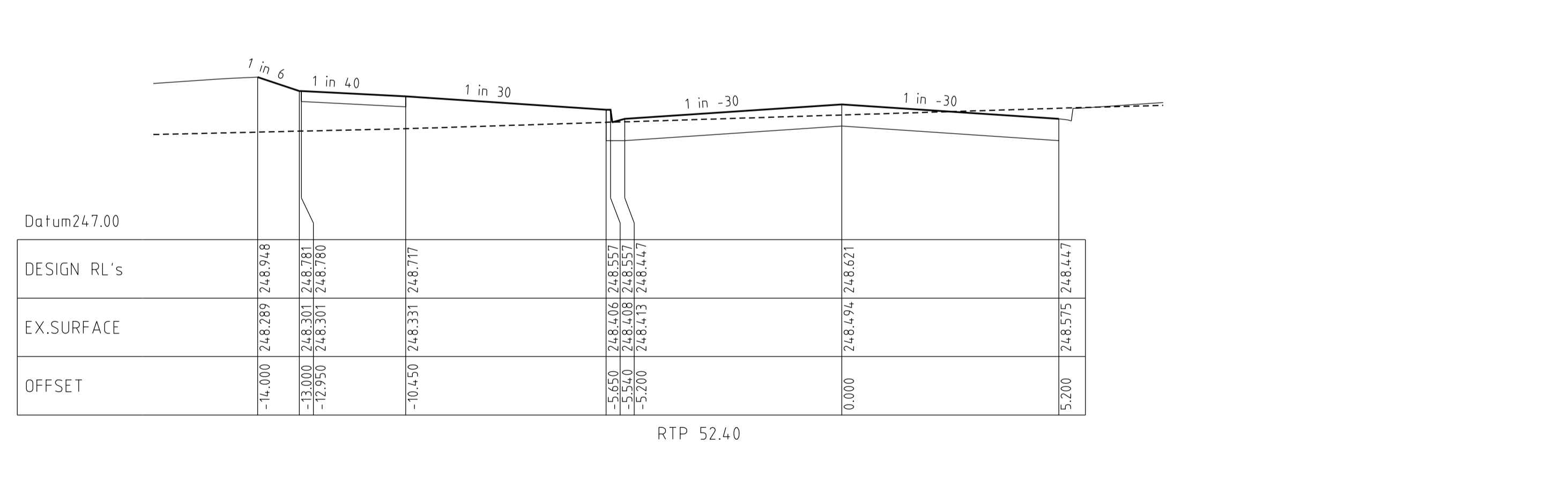
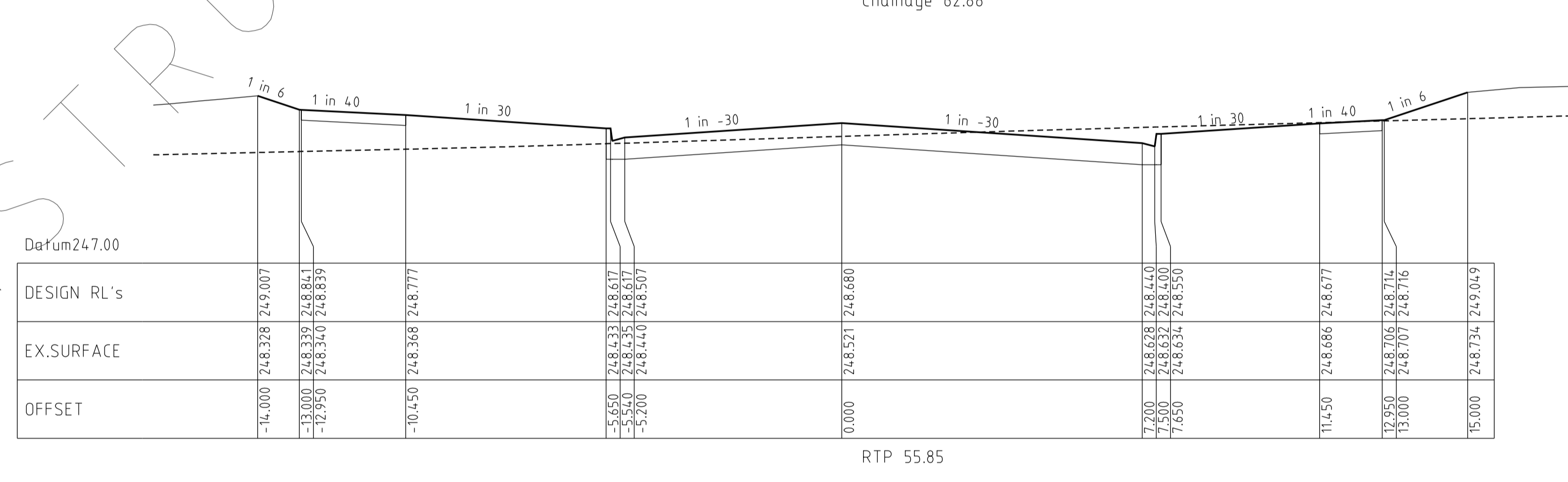
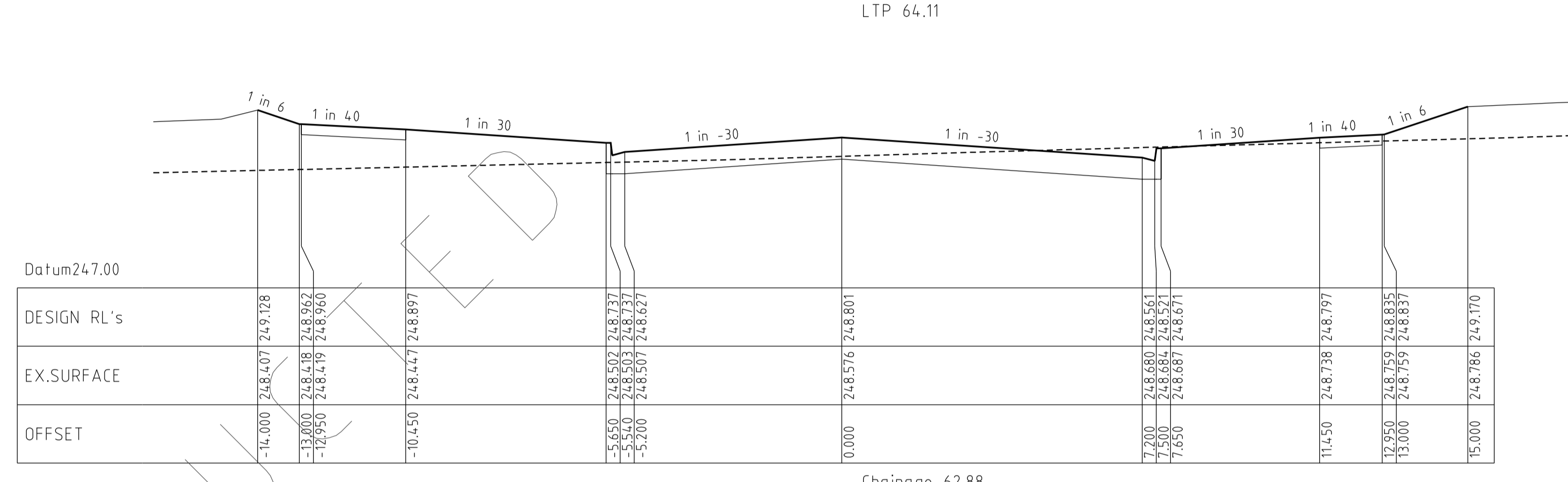
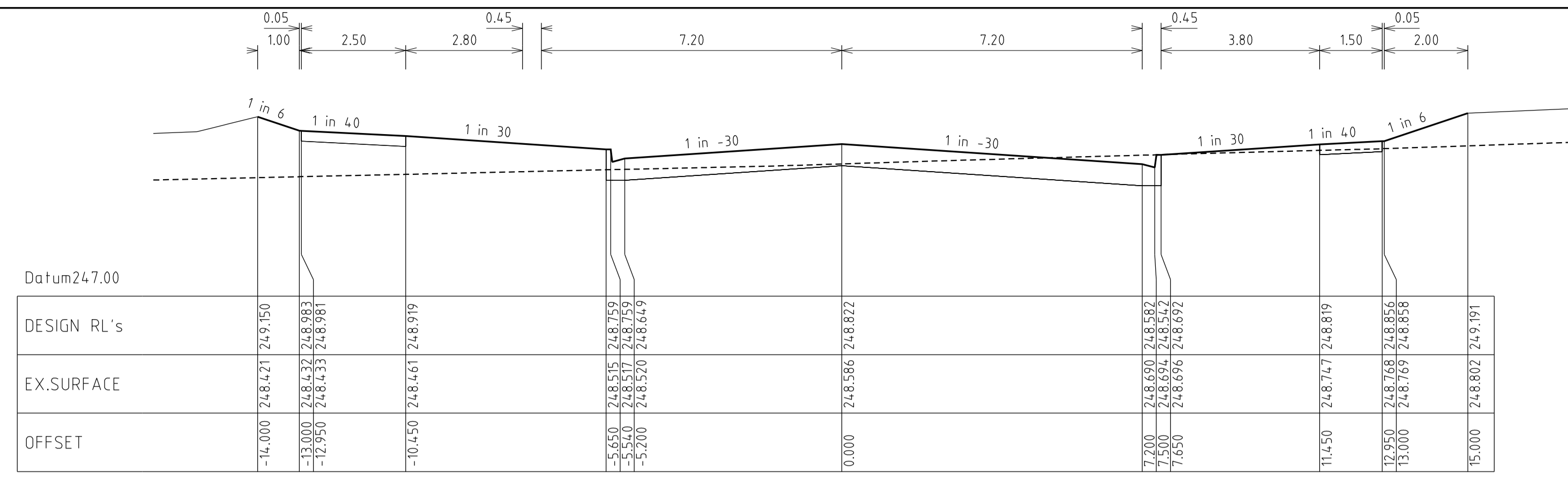
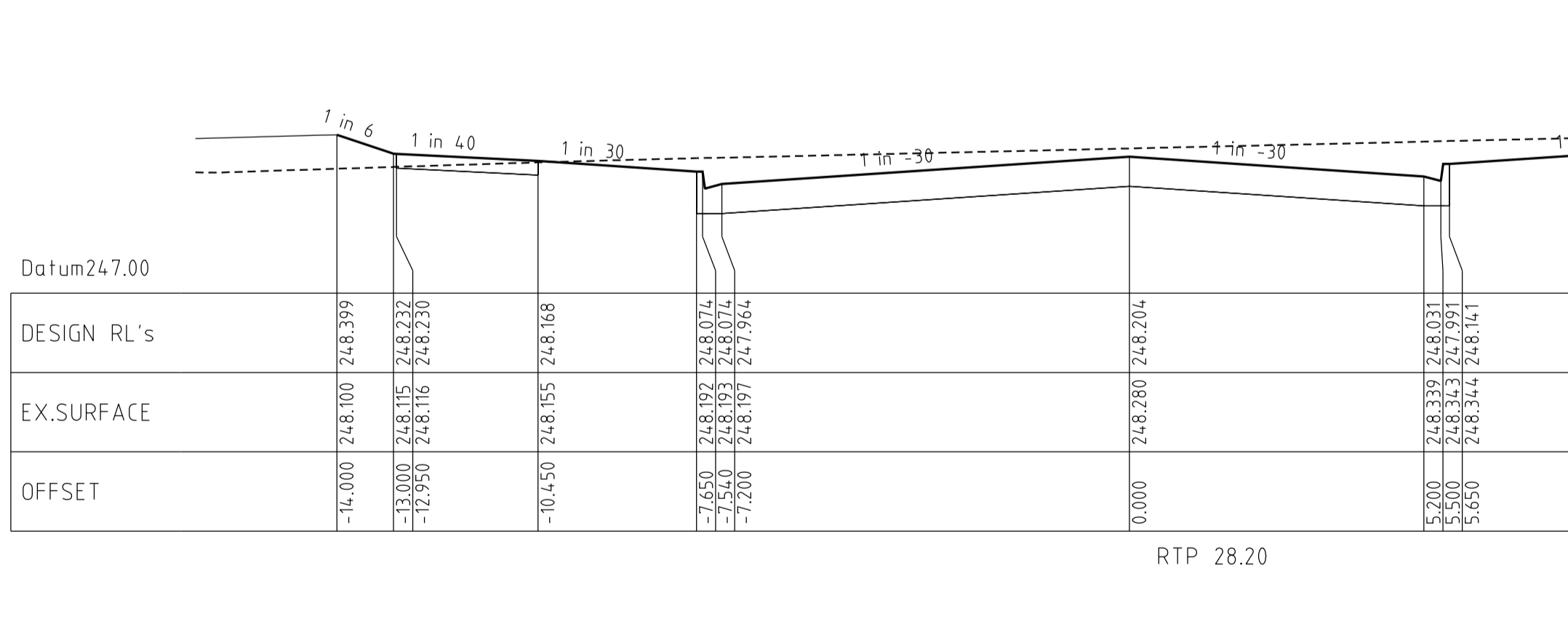
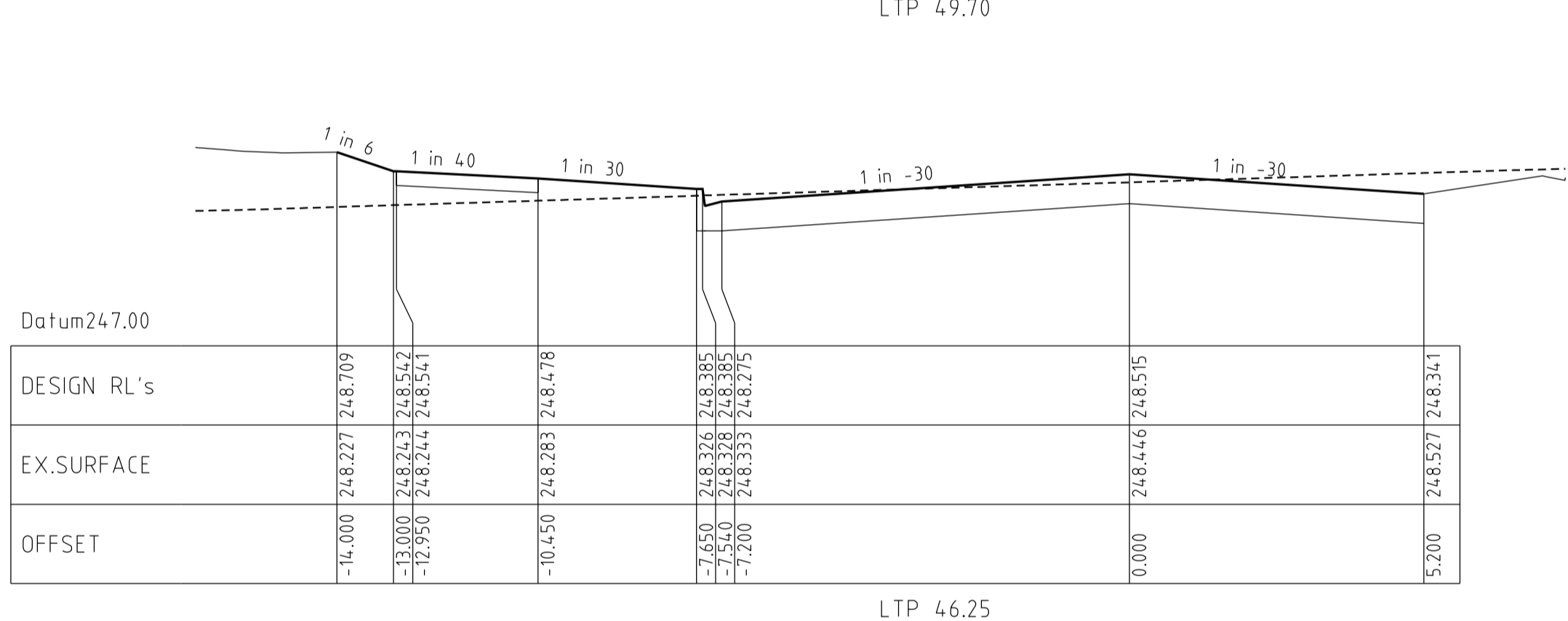
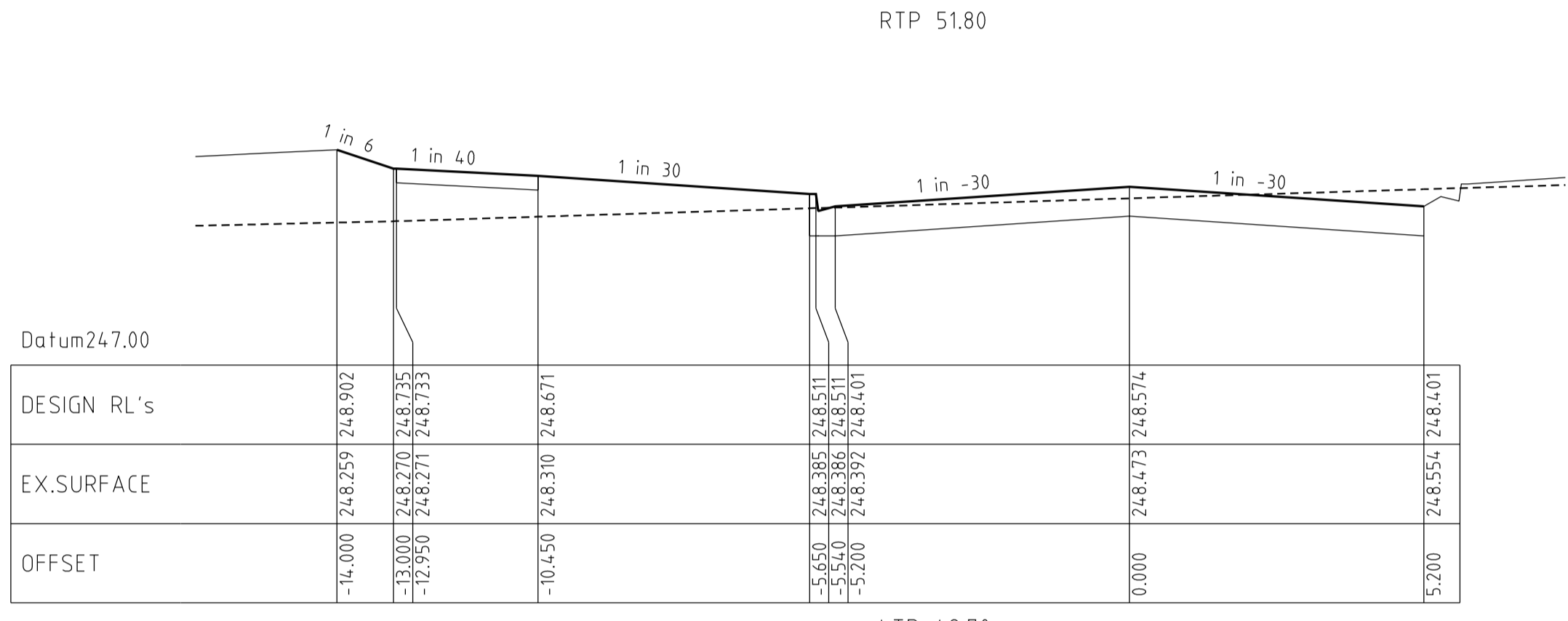
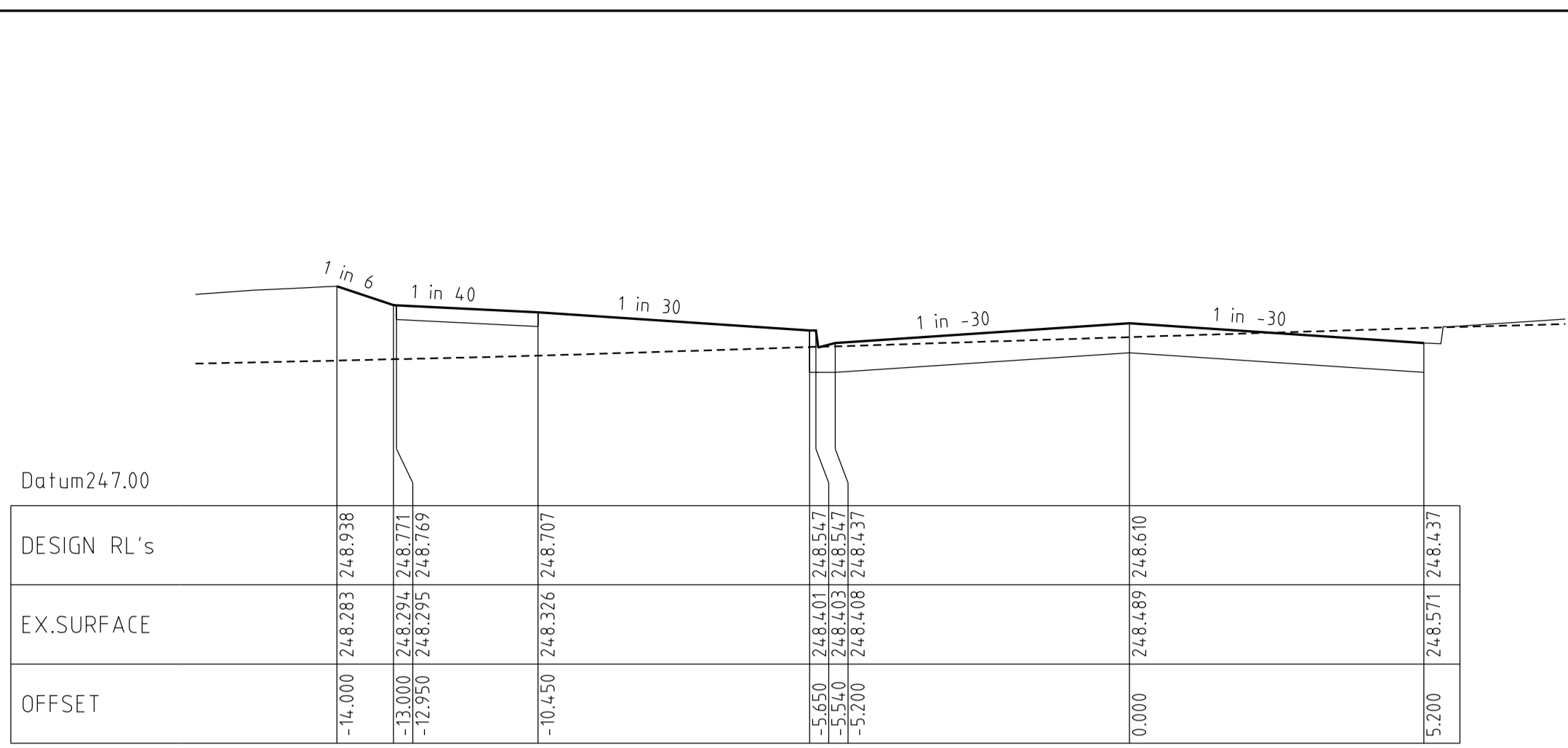


REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS - CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME: K:\36182\36182 3\dgn\r10.dgn			AUTHORISED:	A.S.C DATE: AUG 2012

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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R10
CELESTE STREET LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 10 OF 28



GRAND BOULEVARD CROSS SECTIONS

HORIZ 1 0 2 4 6m
VERT 0 5 1 2 3m

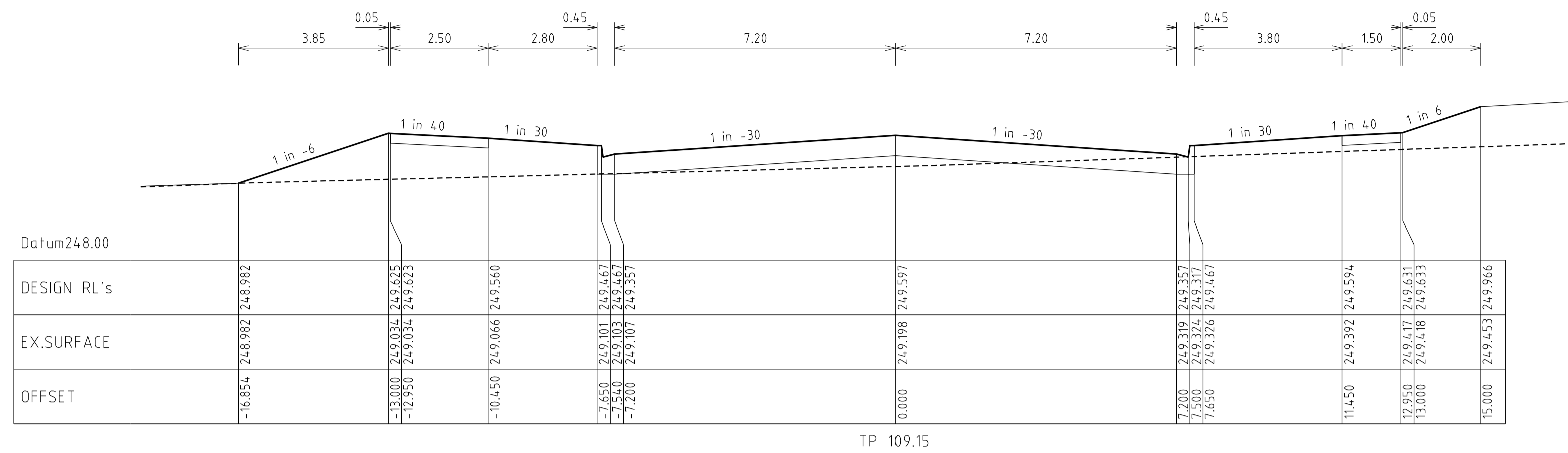
Horiz Scale 1 : 100 at A1
Vert. Scale 1 : 50 at A1

REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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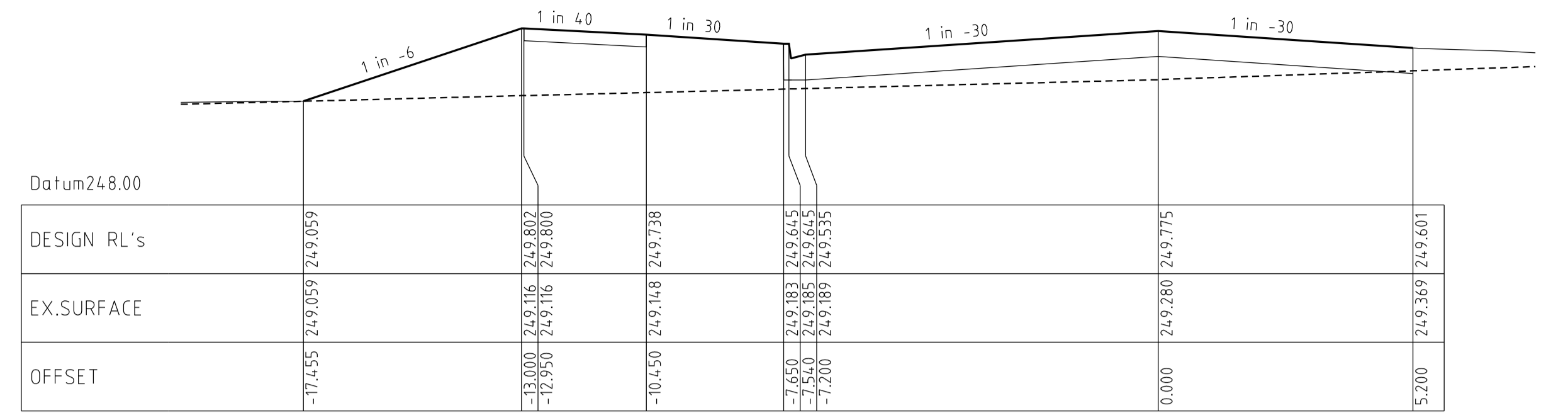
MORNINGTON
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DX 93118 Mornington

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The Melbourne, Suite 2
250 St. Kilda Road
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Phone: (03) 9497 8000
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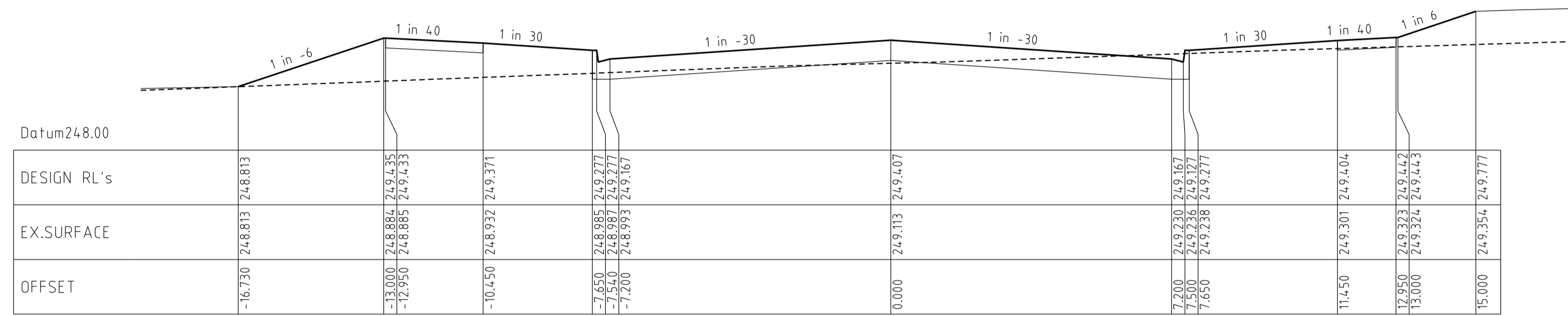
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R12
GRAND BOULEVARD CROSS SECTIONS		REVISION Q
		SHEET 12 OF 28



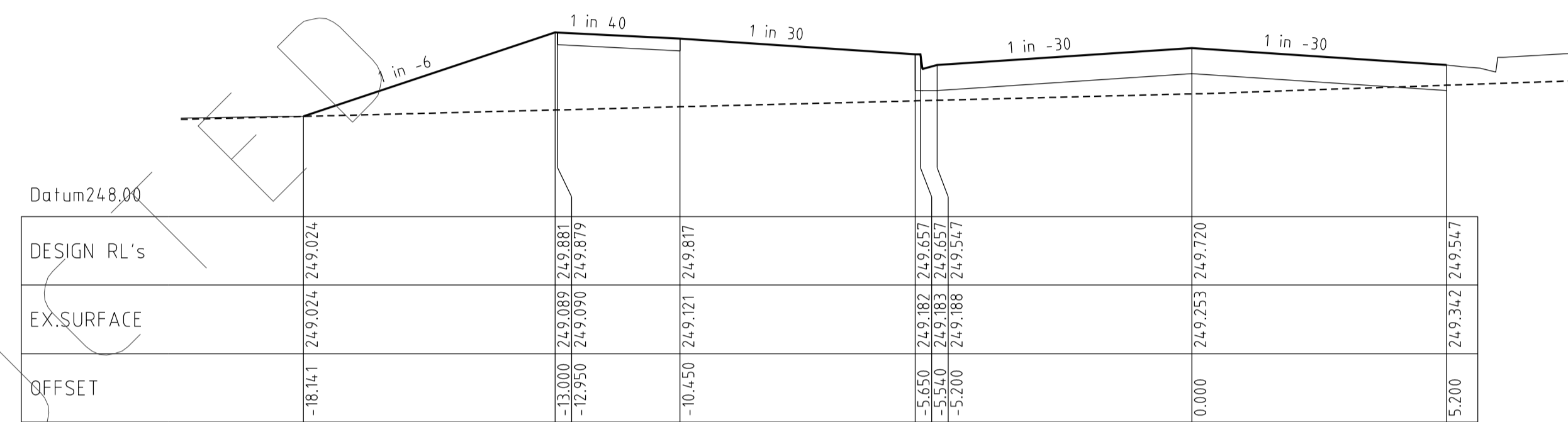
TP 109.15



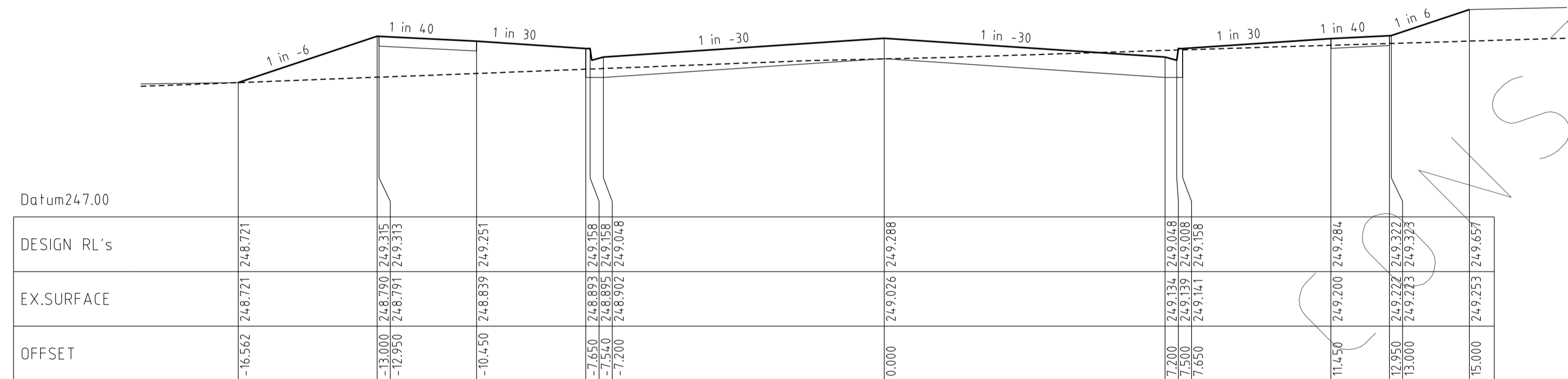
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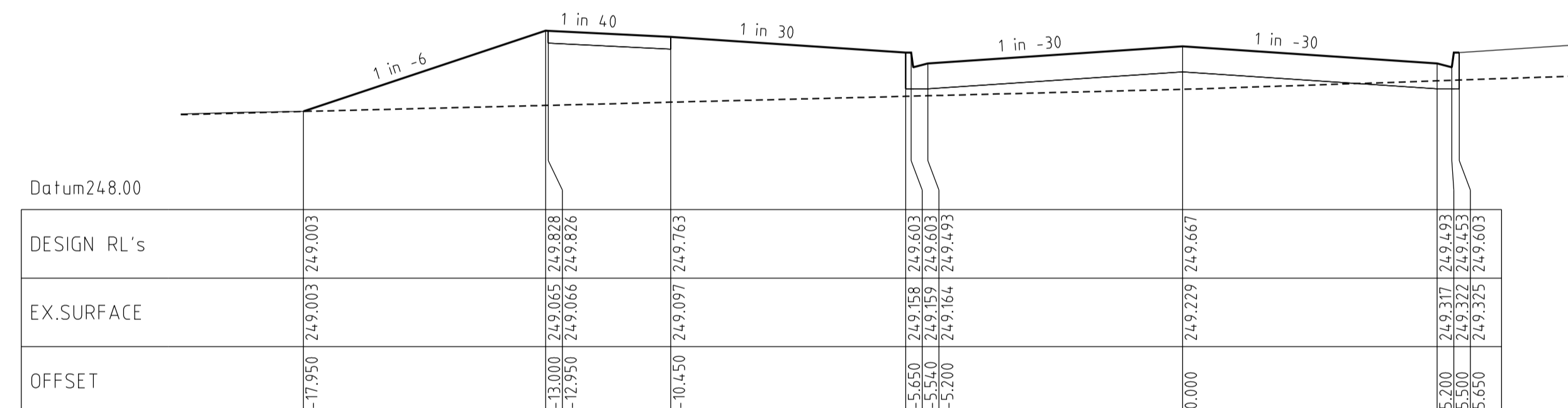
Chainage 98.13



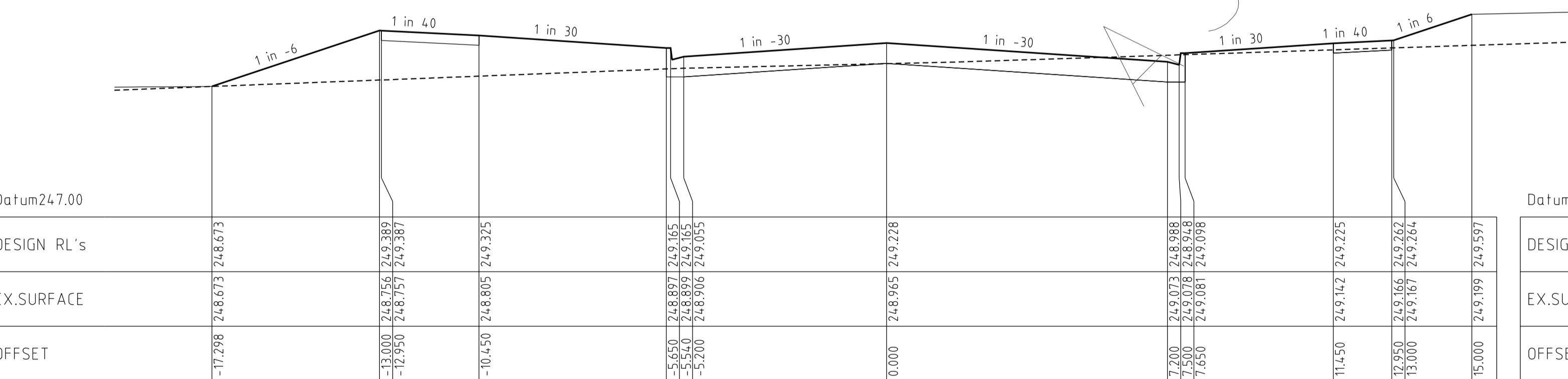
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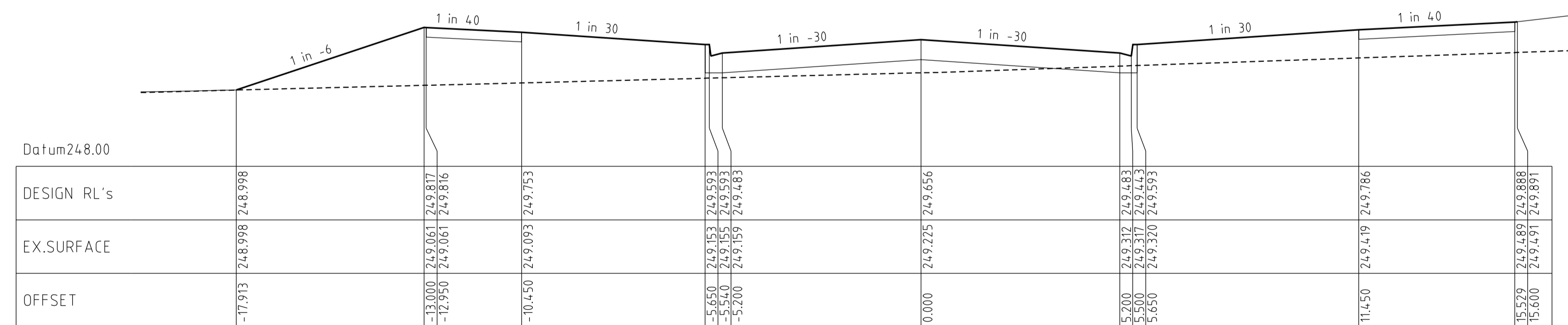
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RTP 113.20

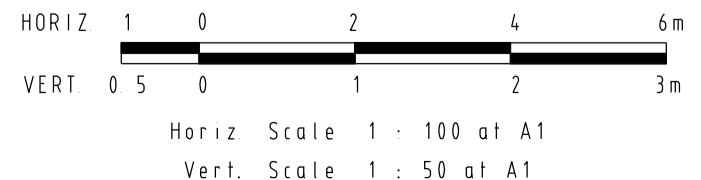


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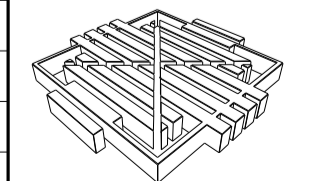


TP 112.60

**GRAND BOULEVARD
CROSS SECTIONS**



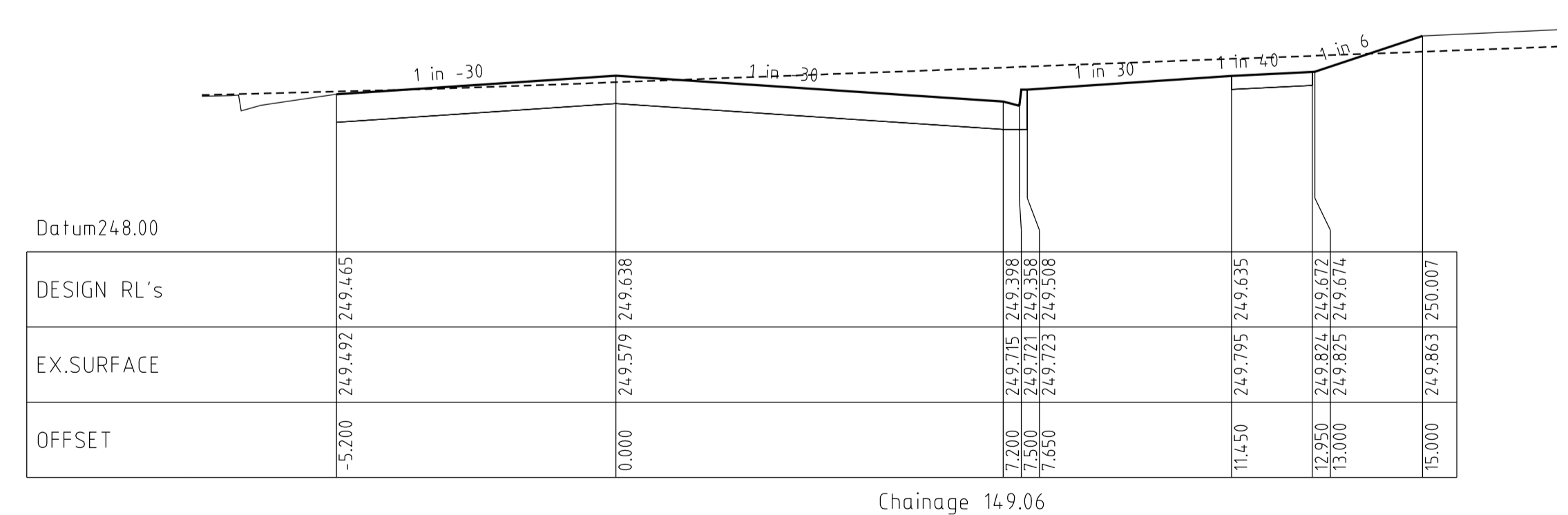
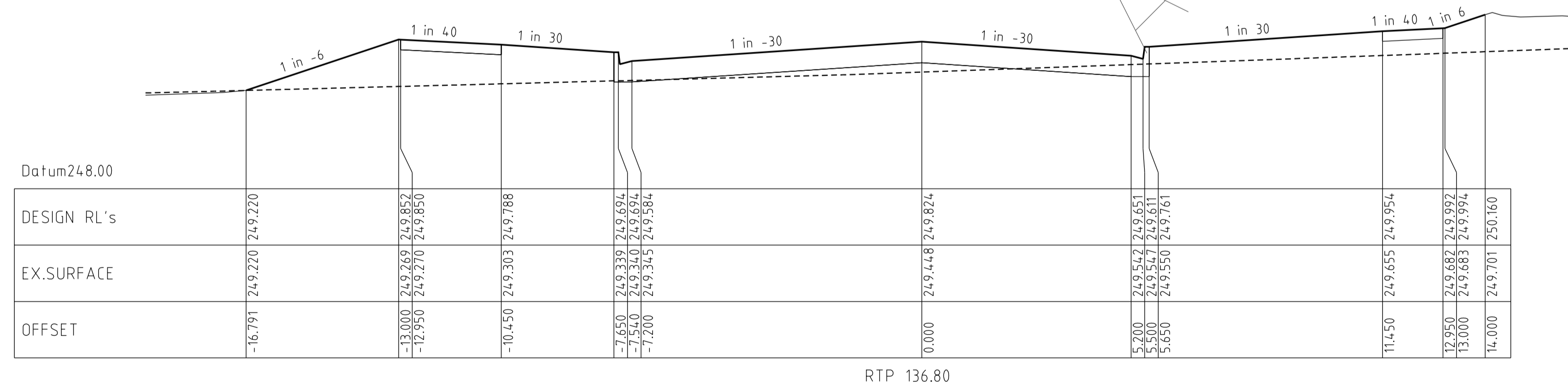
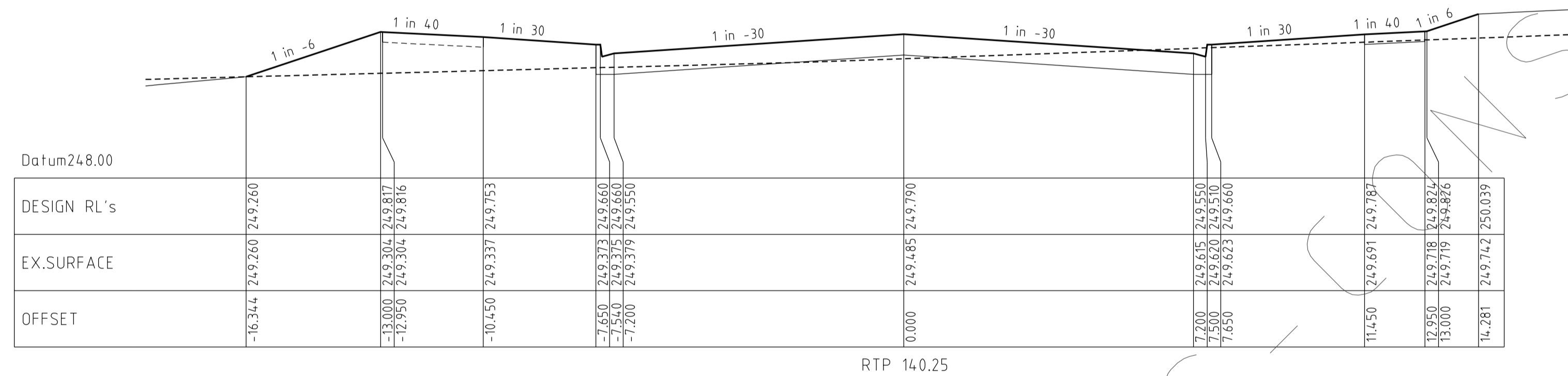
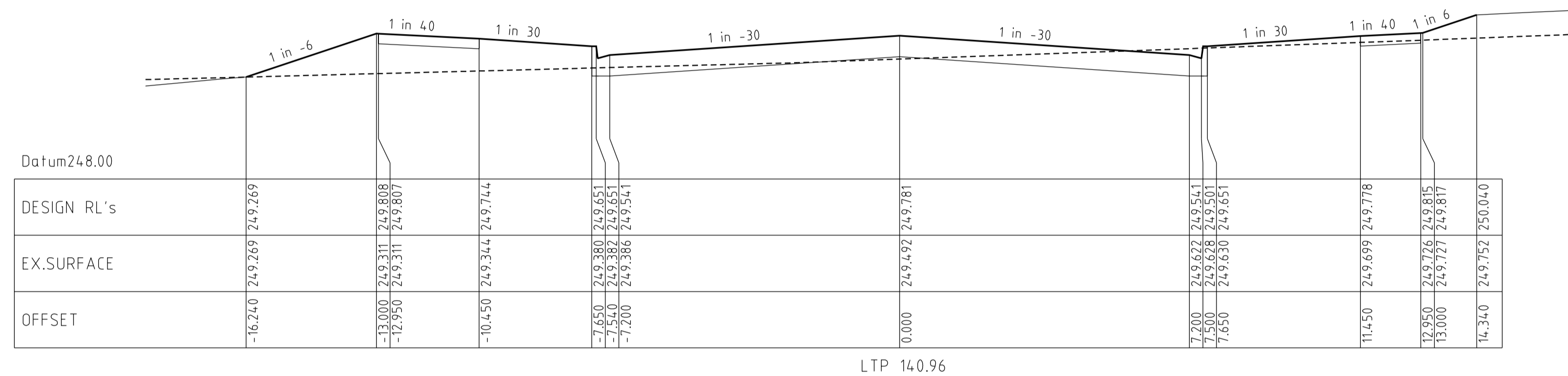
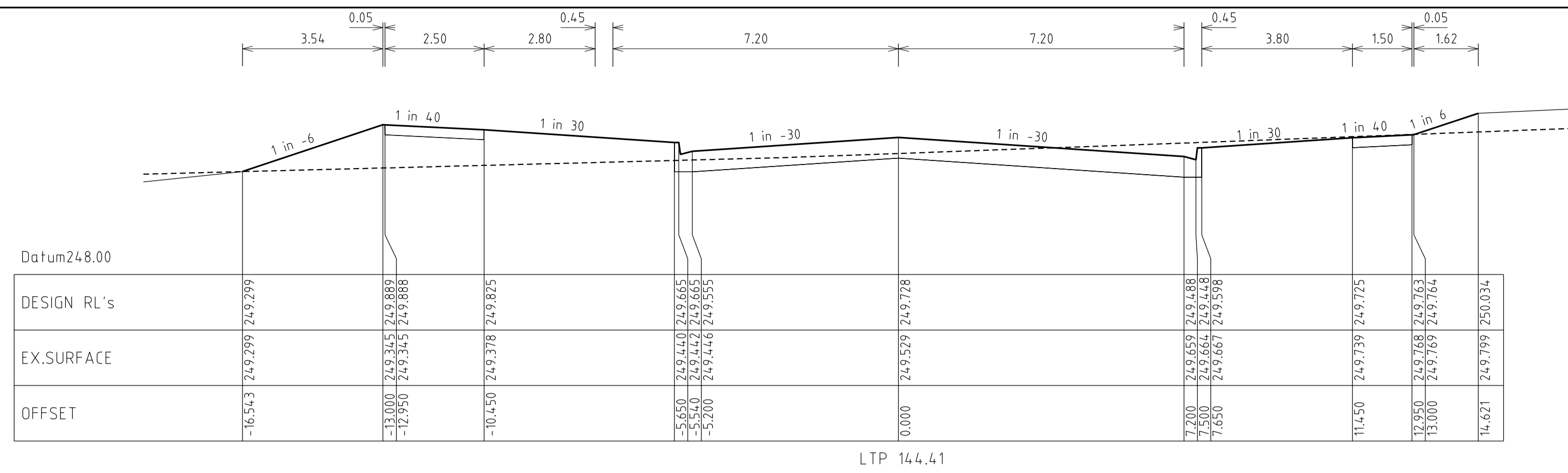
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
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18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
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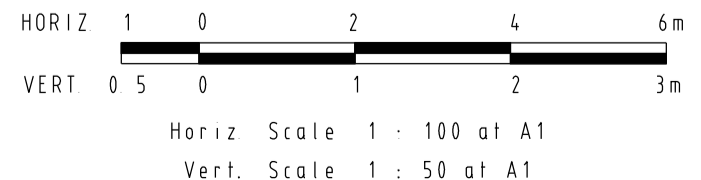
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R13
GRAND BOULEVARD CROSS SECTIONS		REVISION Q
		SHEET 13 OF 28



**GRAND BOULEVARD
CROSS SECTIONS**



REVISIONS			SCALE:	AS SHOWN
DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LTPO
18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
FILENAME: K:\36182\36182\3\dgn\r14.dgn			AUTHORISED:	A.S.C DATE: AUG 2012



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R14
GRAND BOULEVARD CROSS SECTIONS		REVISION Q
		SHEET 14 OF 28

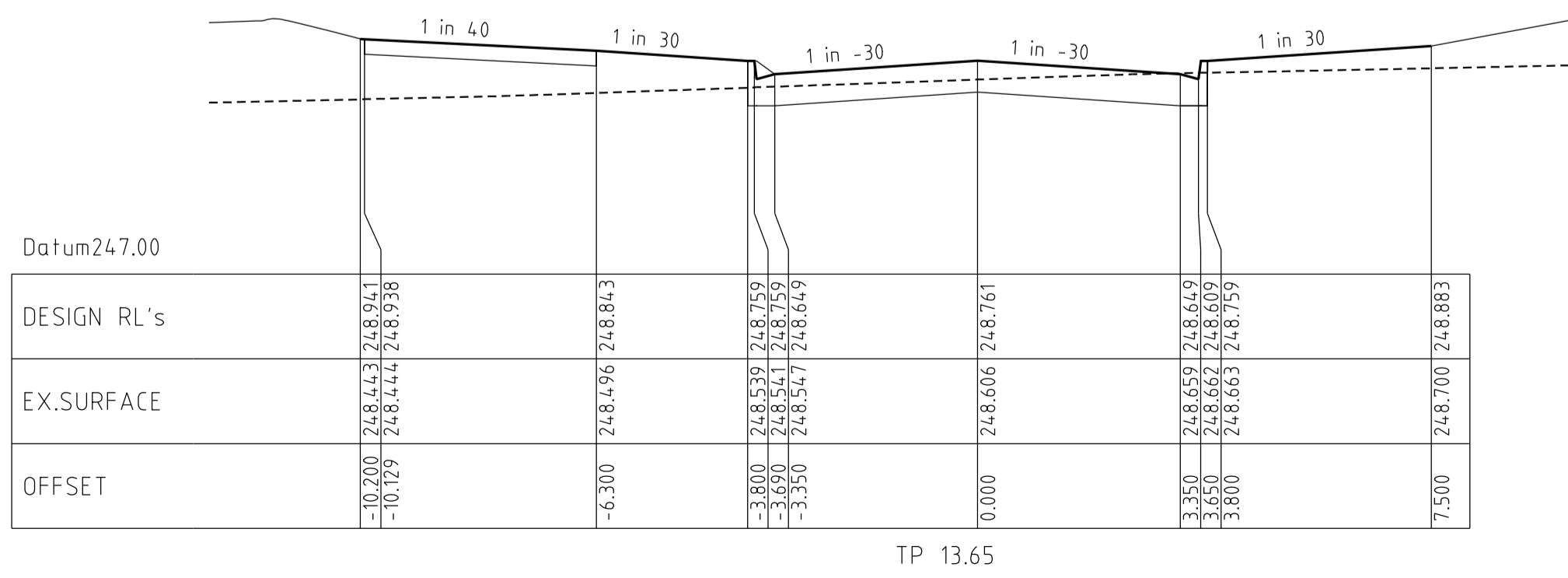
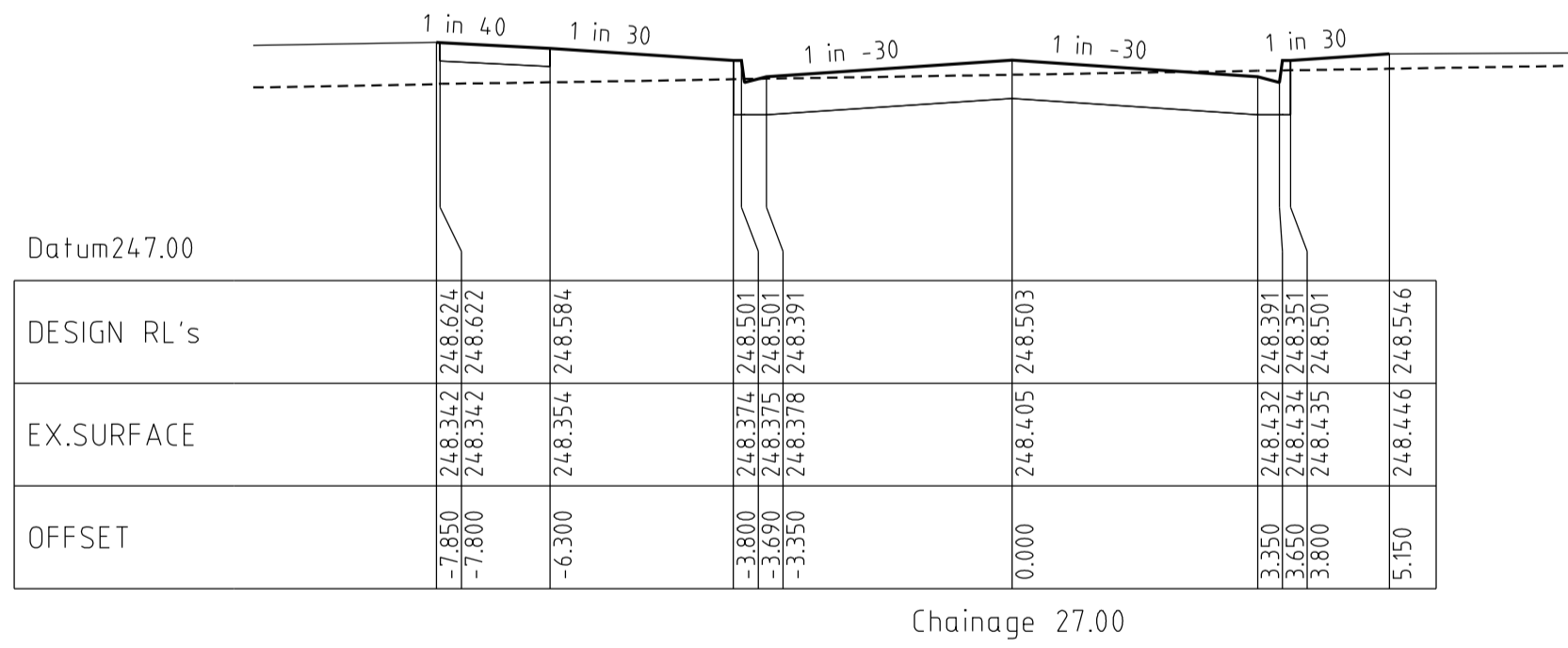
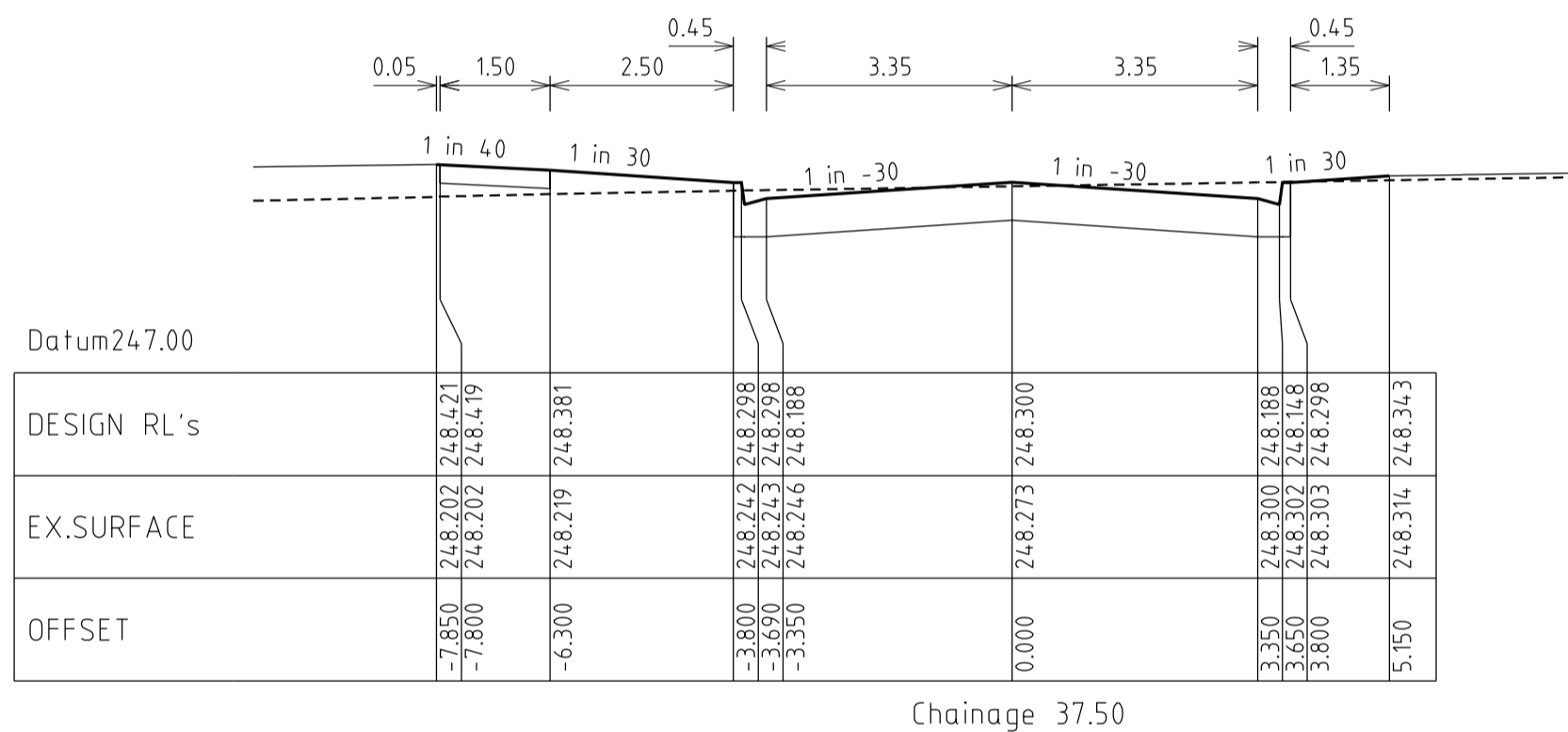
**SEPAL DRIVE
LONGITUDINAL SECTION**

HORIZ 0 5 10 20 30m
VERT 0 5 1 2 3m
Horiz. Scale 1 : 500 at A1
Vert. Scale 1 : 50 at A1

Horizontal Geometry
Vertical Grade
VC length

Datum RL.242

CHAINAGES	EXISTING SURFACE	DESIGN CENTRELINE
0.00	248.76	249.025
13.65	248.61	248.761
20.00	248.50	248.638
27.00	248.40	248.503
37.50	248.27	248.300
38.46	248.26	248.281
40.00	248.24	248.252
50.00	248.12	248.076
53.46	248.08	248.022
60.00	248.00	247.928
62.20	247.97	247.899
68.46	247.90	247.824
68.57	247.89	247.823
80.00	247.76	247.707
83.57	247.72	247.676
85.80	247.69	247.657
96.00	247.57	247.583
98.57	247.53	247.568
100.00	247.51	247.559
106.50	247.43	247.521
119.00	247.26	247.446
120.00	247.25	247.441
125.20	247.19	247.410
131.20	247.12	247.374
140.00	247.03	247.322
143.00	247.00	247.304



**SEPAL DRIVE
CROSS SECTIONS**

HORIZ 1 0 2 4 6m
VERT 0 5 1 2 3m
Horiz. Scale 1 : 100 at A1
Vert. Scale 1 : 50 at A1

REVISIONS			SCALE:
DATE	DETAILS	AUTHORISED	AS SHOWN
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	DATE PRINTED: 28/01/2015
18/02/14	P AS-CONSTRUCTED	ASC	LEVEL DATA: K:\36182\36182\LT00
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	DATUM: AHD
4/06/13	N CROSSOVER AMENDMENTS	ASC	PROJECT No.: 36182_3A
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DRAWN: Z.W.L DATE: AUG 2012
			DESIGNED: Z.W.L DATE: AUG 2012
			AUTHORISED: A.S.C DATE: AUG 2012

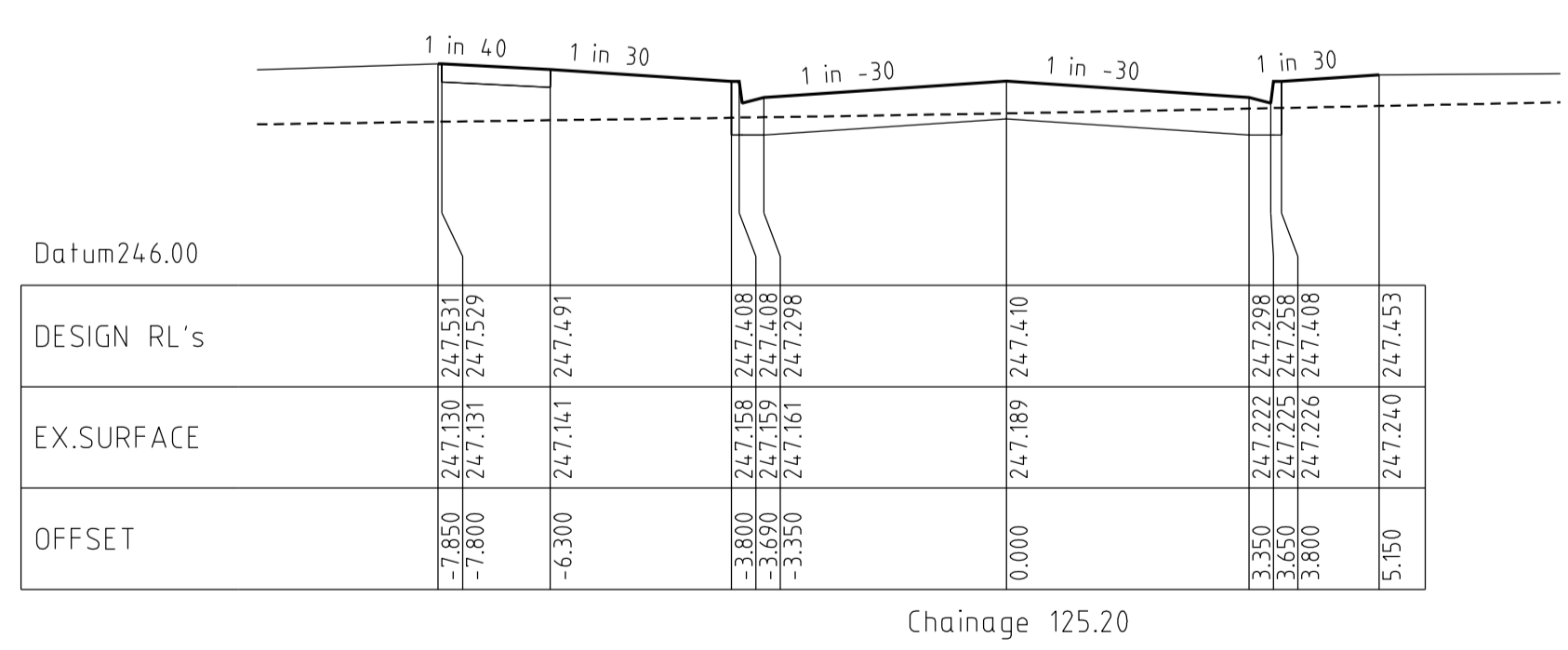
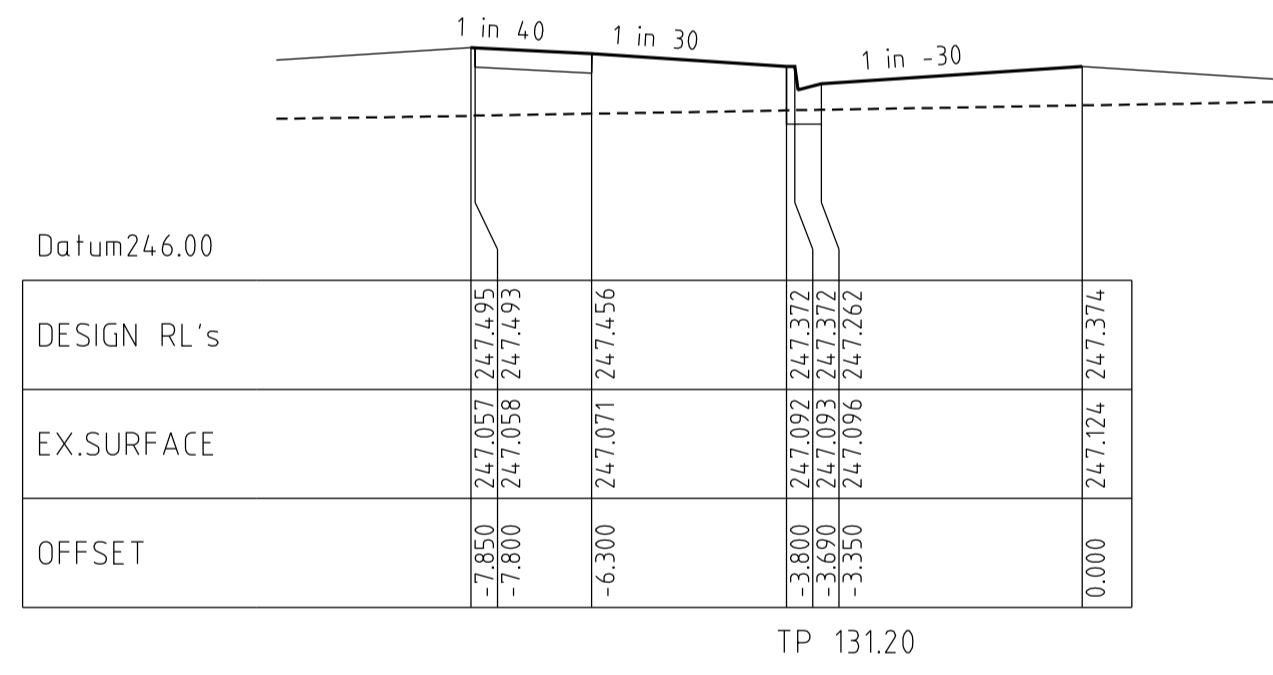
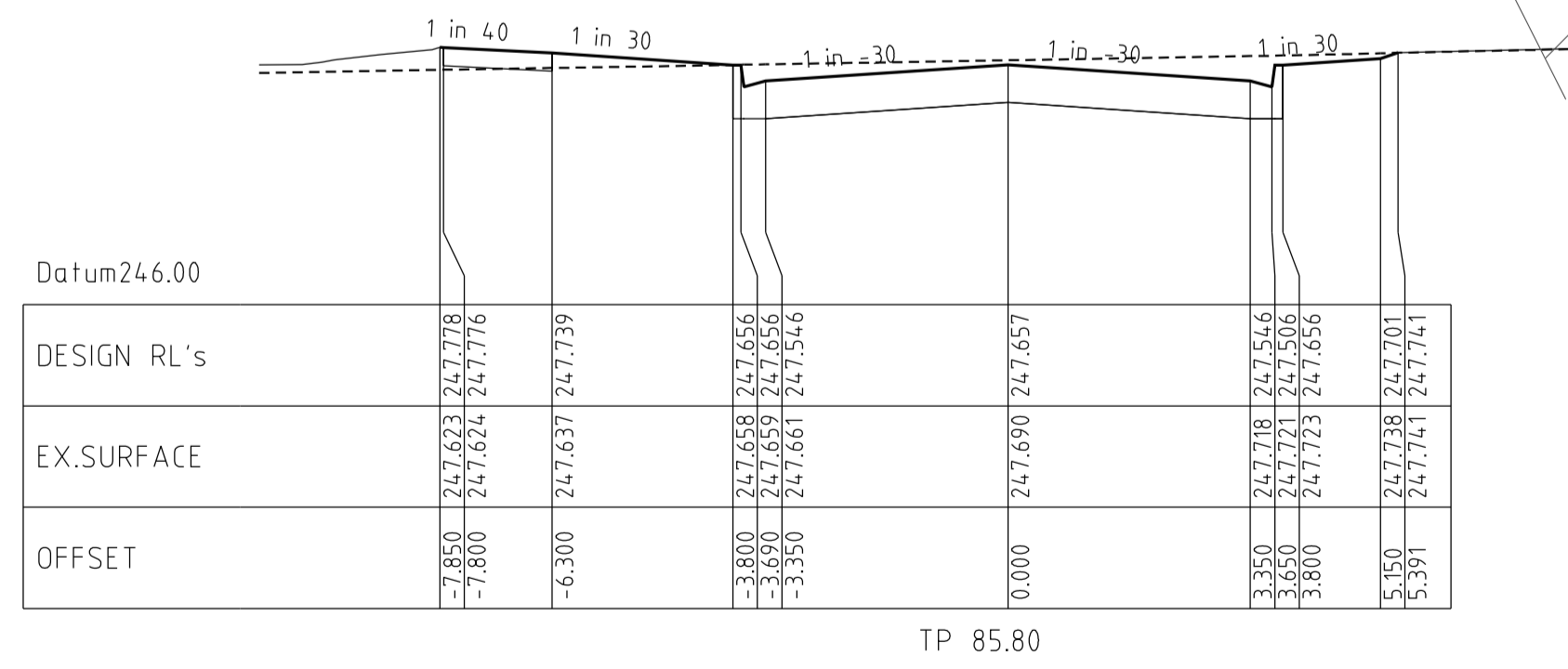
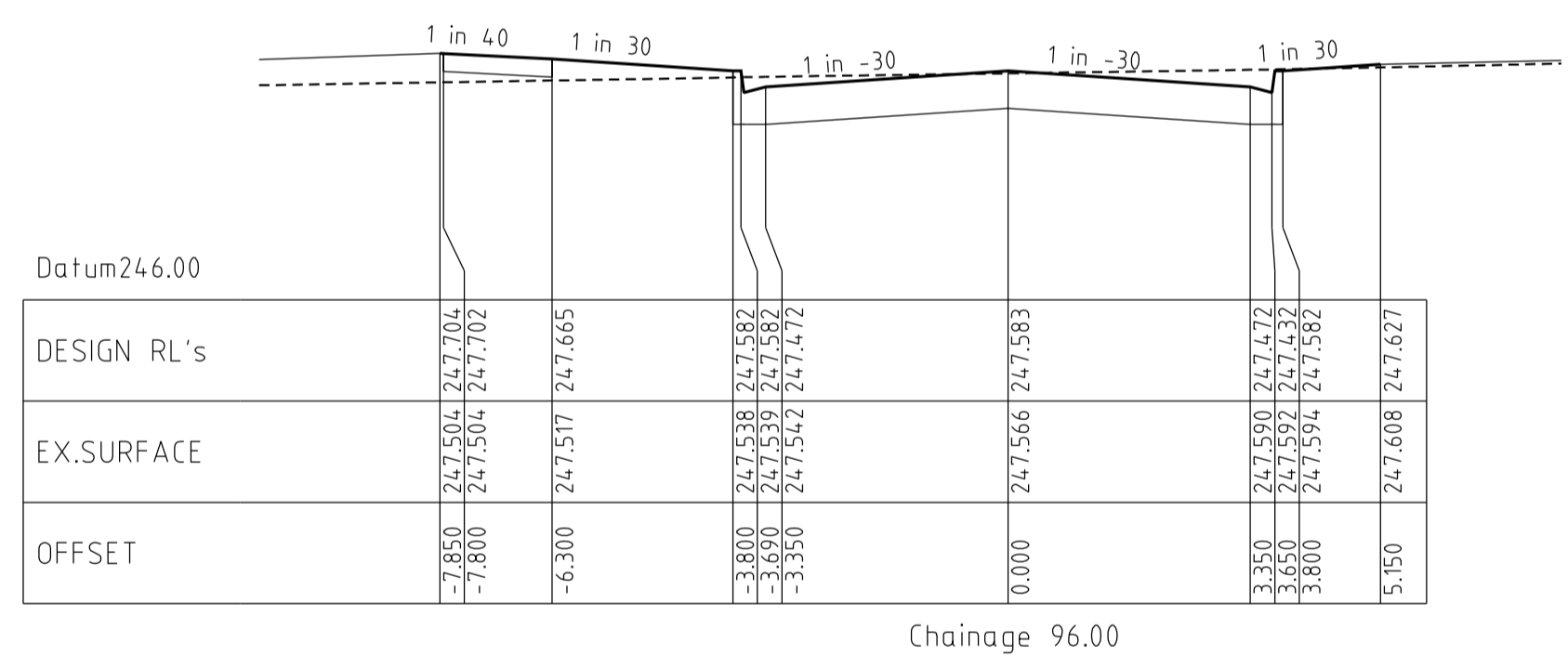
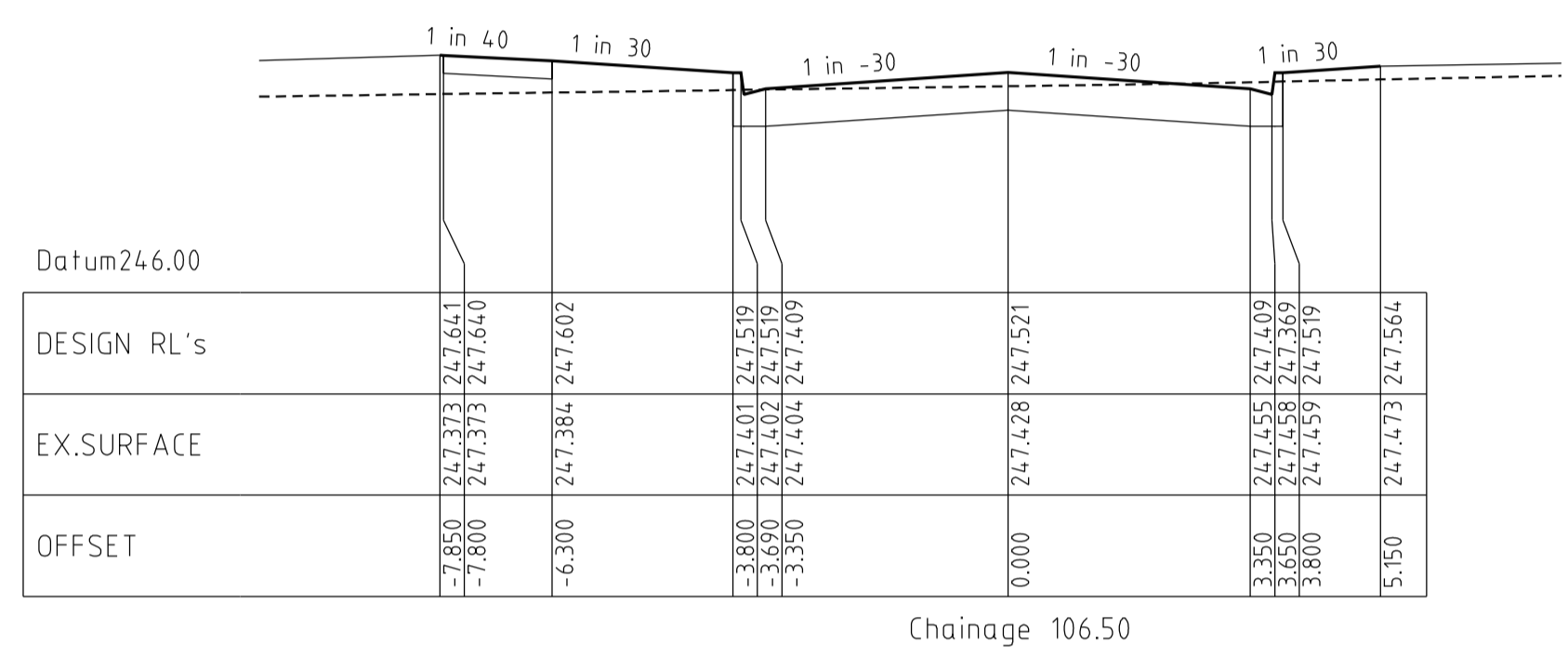
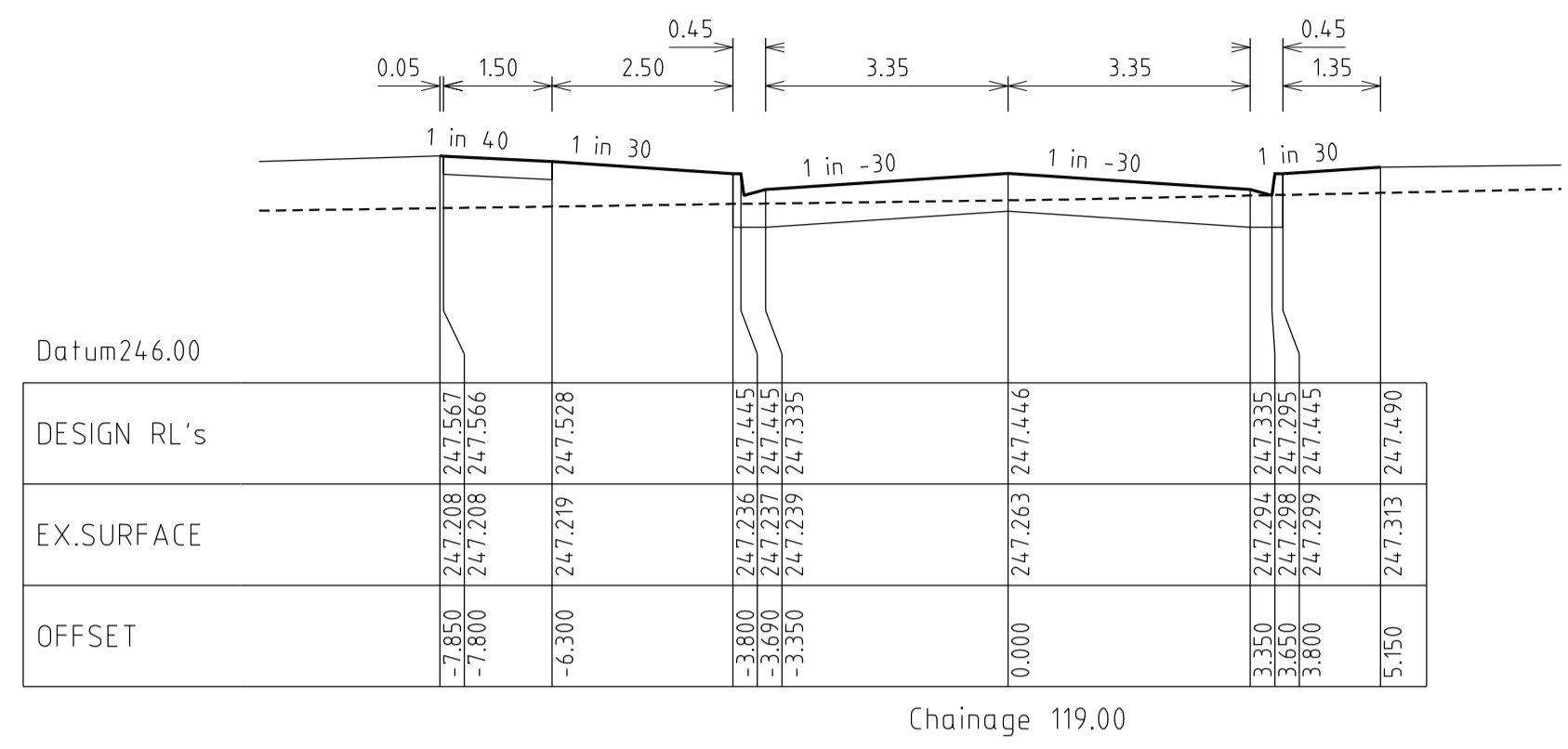
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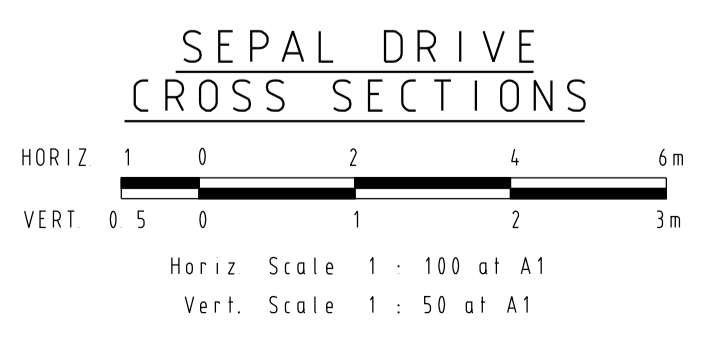
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R15
SEPAL DRIVE LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 15 OF 28



AS - CONSTRUCTED



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26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	LEVEL DATA:	K:\36182\36182\LT00
18/02/14	P AS - CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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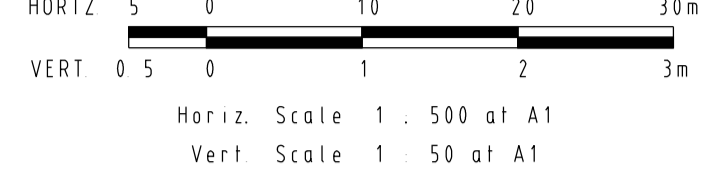


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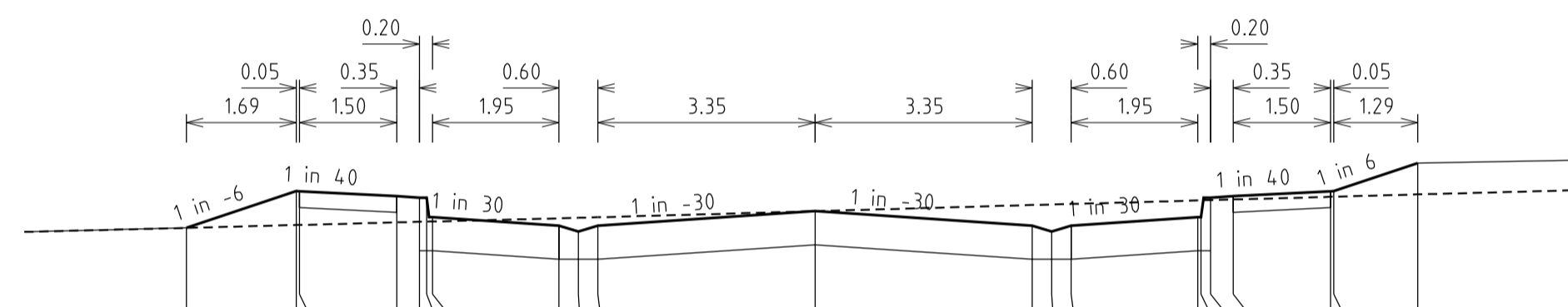
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R16
SEPAL DRIVE CROSS SECTIONS		REVISION Q
		SHEET 16 OF 28

**HONEYDEW STREET
LONGITUDINAL SECTION**

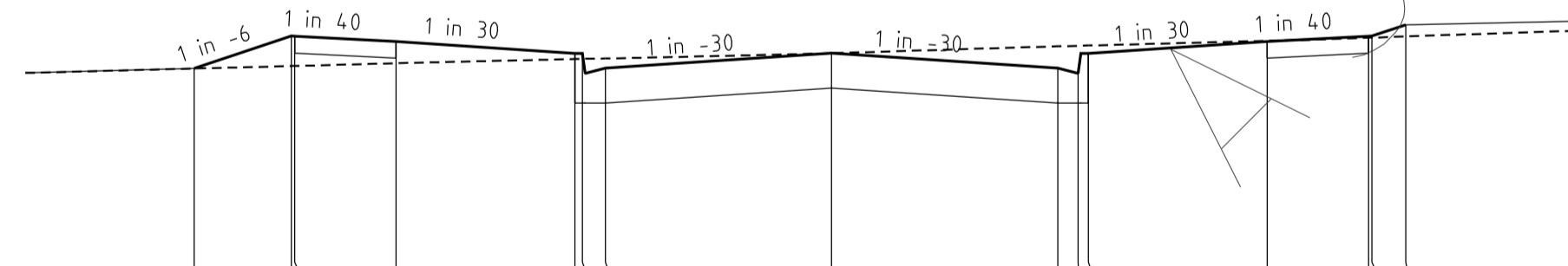


Horizontal Geometry
Vertical Grade
VC length

CHAINAGES	0.00	9.56	12.56	15.41	18.06	20.00	25.06	28.56	39.06	40.00	40.41	53.56	60.00	64.11	65.41	75.91
DESIGN CENTRELINE	247.052	247.141	247.169	247.195	247.220	247.238	247.286	247.320	247.422	247.431	247.435	247.567	247.633	247.676	247.690	247.799
EXISTING SURFACE	247.05	247.14	247.17	247.19	247.21	247.22	247.27	247.30	247.43	247.44	247.44	247.62	247.69	247.73	247.74	247.83

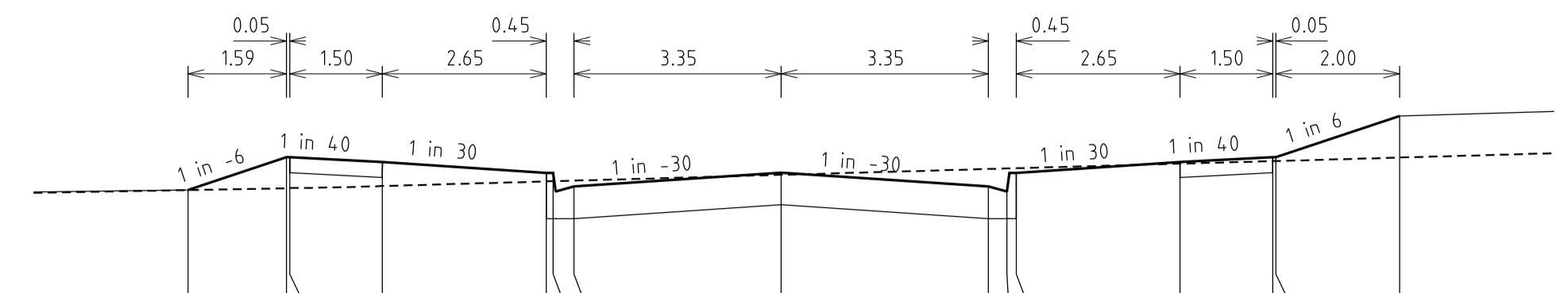
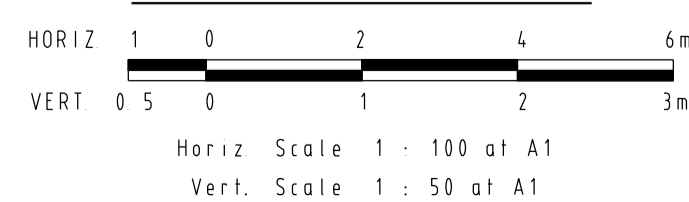


CHAINAGES	9.56	12.56	15.41	18.06	20.00	25.06	28.56	39.06	40.00	40.41	53.56	60.00	64.11	65.41	75.91
DESIGN RL's	247.013	247.295	247.326	247.354	247.374	247.394	247.414	247.434	247.454	247.474	247.494	247.514	247.534	247.554	247.574
EX.SURFACE	247.034	247.316	247.346	247.374	247.394	247.414	247.434	247.454	247.474	247.484	247.484	247.504	247.524	247.544	247.564
OFFSET	-9.694	-8.000	-7.950	-6.450	-5.900	-5.900	0.000	3.350	3.650	3.950	5.900	6.450	7.950	8.000	9.294

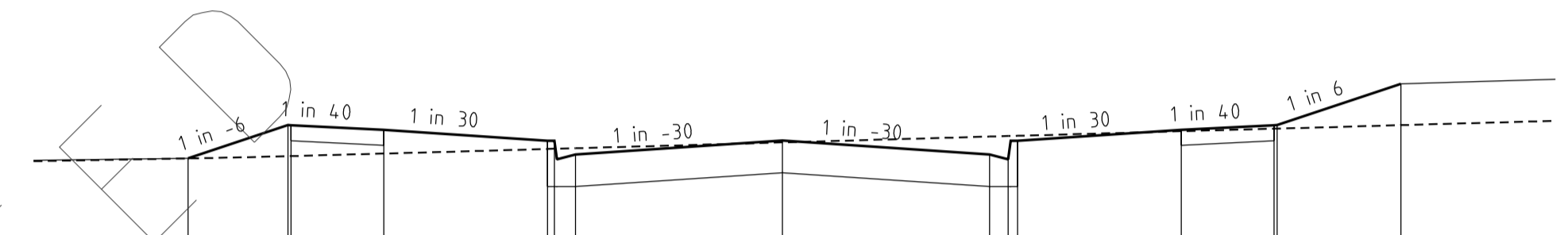


CHAINAGES	0.00	3.350	3.800	6.450	7.950	8.000
DESIGN RL's	247.052	247.940	247.950	247.952	247.957	247.961
EX.SURFACE	247.052	247.940	247.950	247.952	247.957	247.961
OFFSET	0.000	3.350	3.800	6.450	7.950	8.000

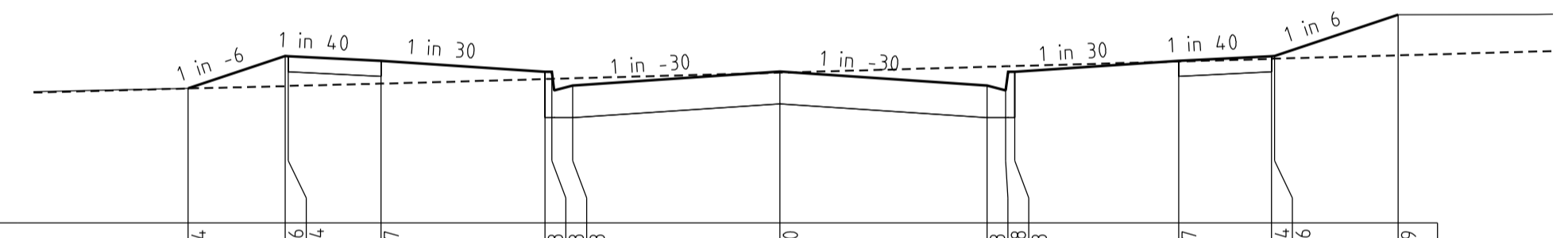
**HONEYDEW STREET
CROSS SECTIONS**



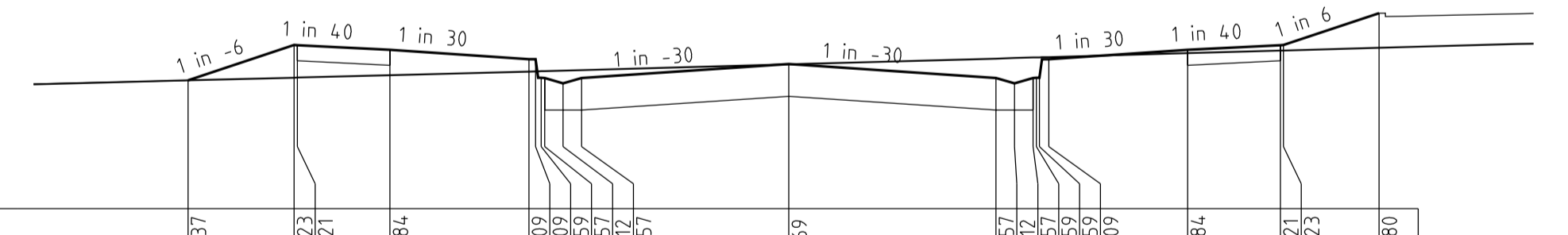
CHAINAGES	28.56	33.50	3.650	3.800	6.450	7.950	8.000	10.000
DESIGN RL's	247.180	247.446	247.444	247.406	247.320	247.208	247.168	247.719
EX.SURFACE	247.180	247.446	247.444	247.406	247.320	247.208	247.168	247.719
OFFSET	-9.592	-8.000	-7.950	-6.450	0.000	3.350	3.650	10.000



CHAINAGES	25.06	24.713	24.740	24.740	24.733	24.786	24.733	24.715	24.742	24.745
DESIGN RL's	247.143	247.412	247.410	247.373	247.285	247.285	247.195	247.195	247.410	247.412
EX.SURFACE	247.143	247.412	247.410	247.373	247.285	247.285	247.195	247.195	247.410	247.412
OFFSET	-9.613	-8.000	-7.950	-6.450	0.000	3.350	3.650	10.000		



CHAINAGES	18.06	24.7084	24.7346	24.7344	24.7307	24.7220	24.7307	24.708	24.708	24.7346	24.7346	24.7619
DESIGN RL's	247.084	247.346	247.344	247.307	247.220	247.208	247.108	247.08	247.08	247.346	247.346	247.619
EX.SURFACE	247.084	247.346	247.344	247.307	247.220	247.208	247.108	247.08	247.08	247.346	247.346	247.619
OFFSET	-9.571	-8.000	-7.950	-6.450	0.000	3.350	3.650	10.000				



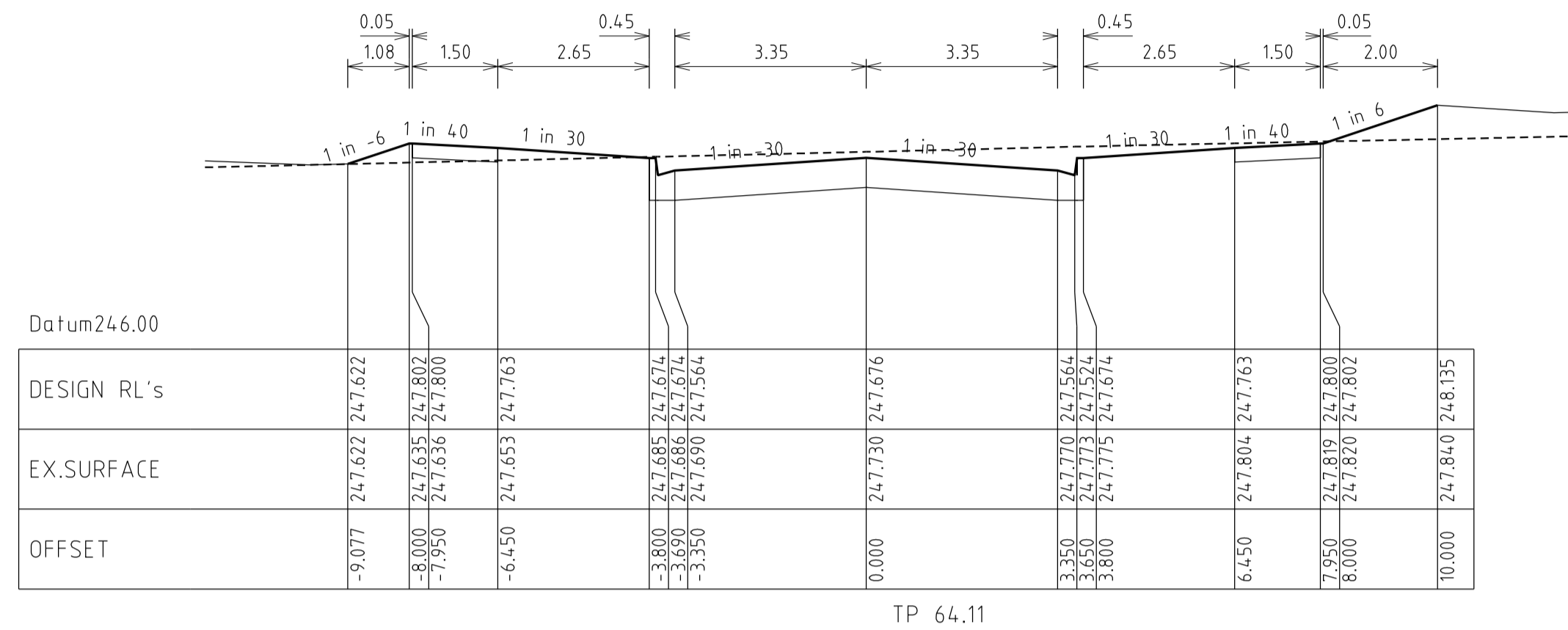
CHAINAGES	12.56	24.7037	24.7323	24.7321	24.7284	24.709	24.709	24.709	24.709	24.7323	24.7323	24.7380
DESIGN RL's	247.037	247.323	247.321	247.284	247.209	247.109	247.109	247.109	247.109	247.323	247.323	247.380
EX.SURFACE	247.037	247.323	247.321	247.284	247.209	247.109	247.109	247.109	247.109	247.323	247.323	247.380
OFFSET	-9.715	-8.000	-7.950	-6.450	0.000	3.350	3.650	10.000				

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DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
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18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
13/09/13	O ELECTRICAL KIOSK ADDED	ASC	PROJECT No.:	36182_3A
4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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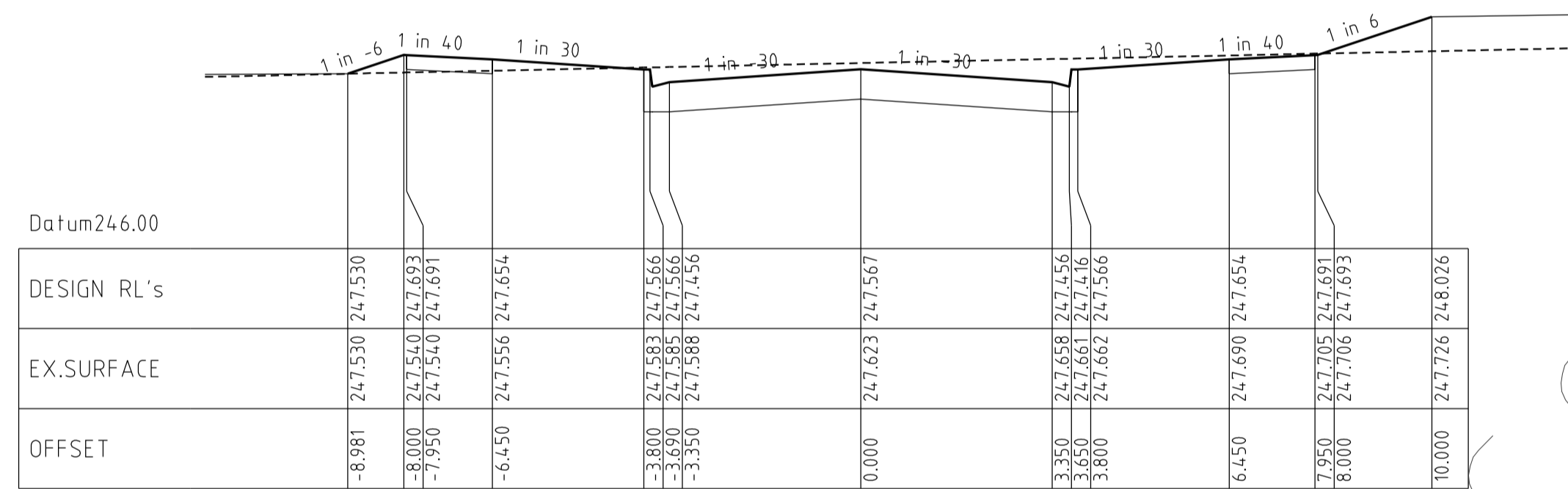
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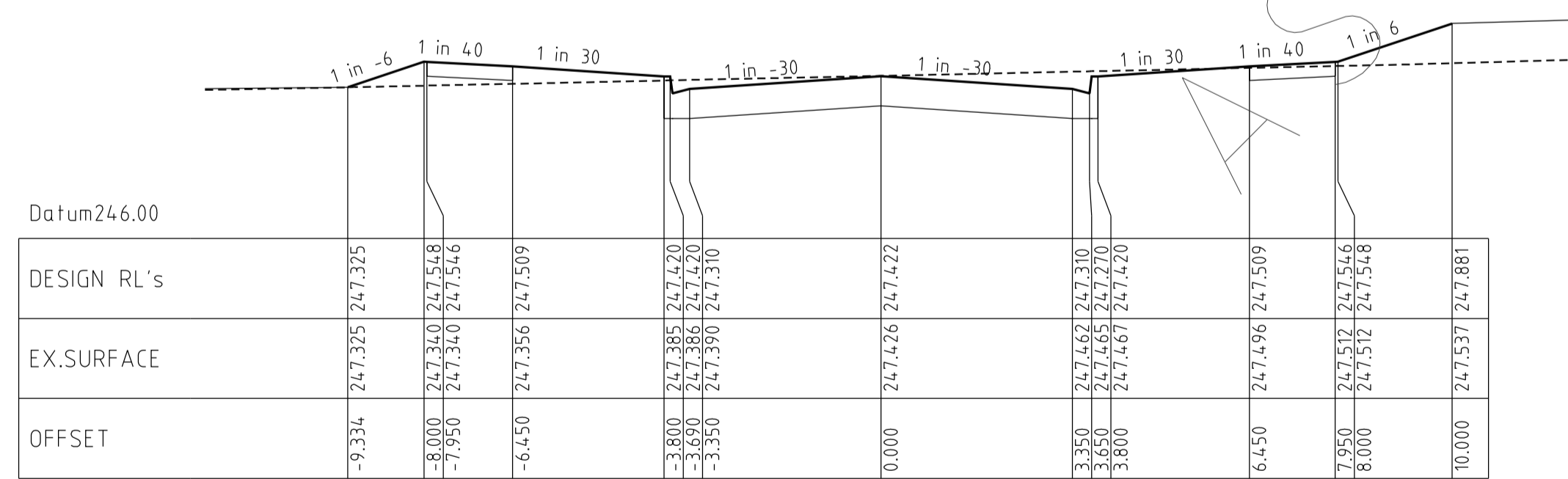
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R17
HONEYDEW STREET LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 17 OF 28



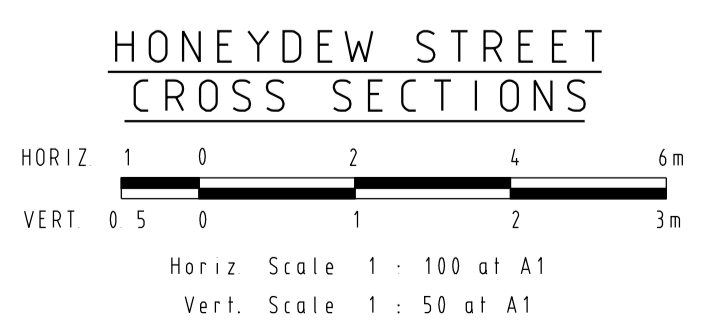
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Chainage 53.56



Chainage 39.06



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R18
HONEYDEW STREET CROSS SECTIONS		REVISION Q
		SHEET 18 OF 28

**ROSETTE PARADE
LONGITUDINAL SECTION**

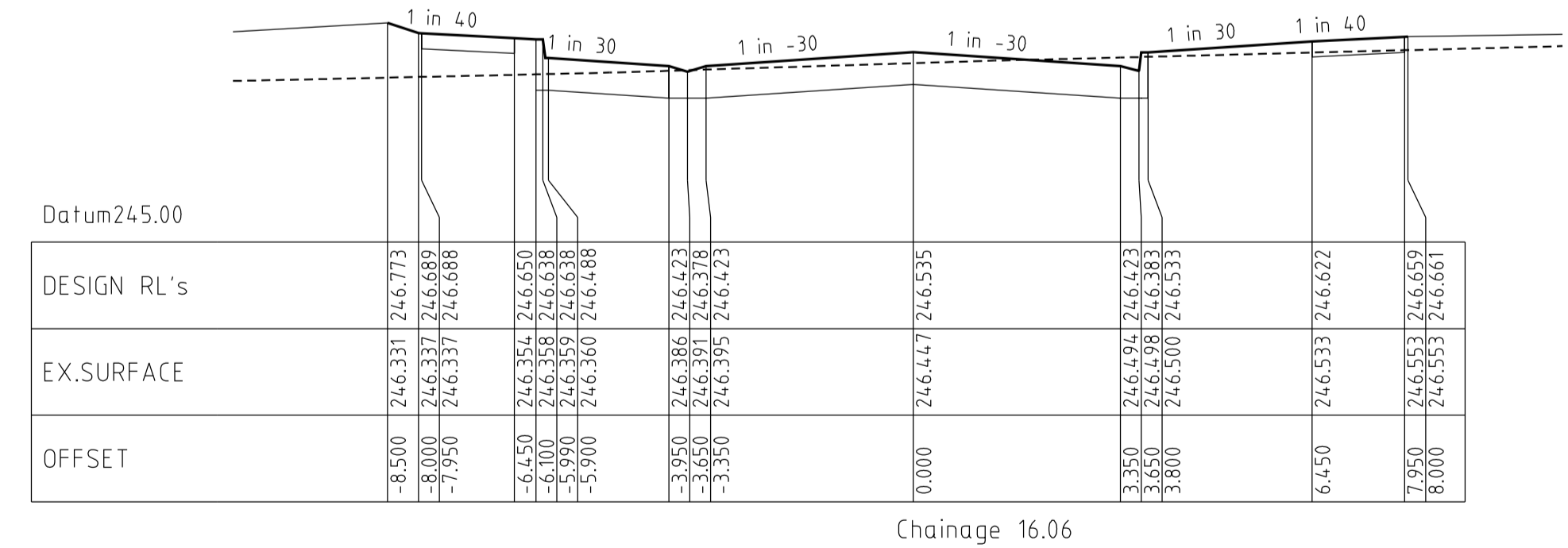
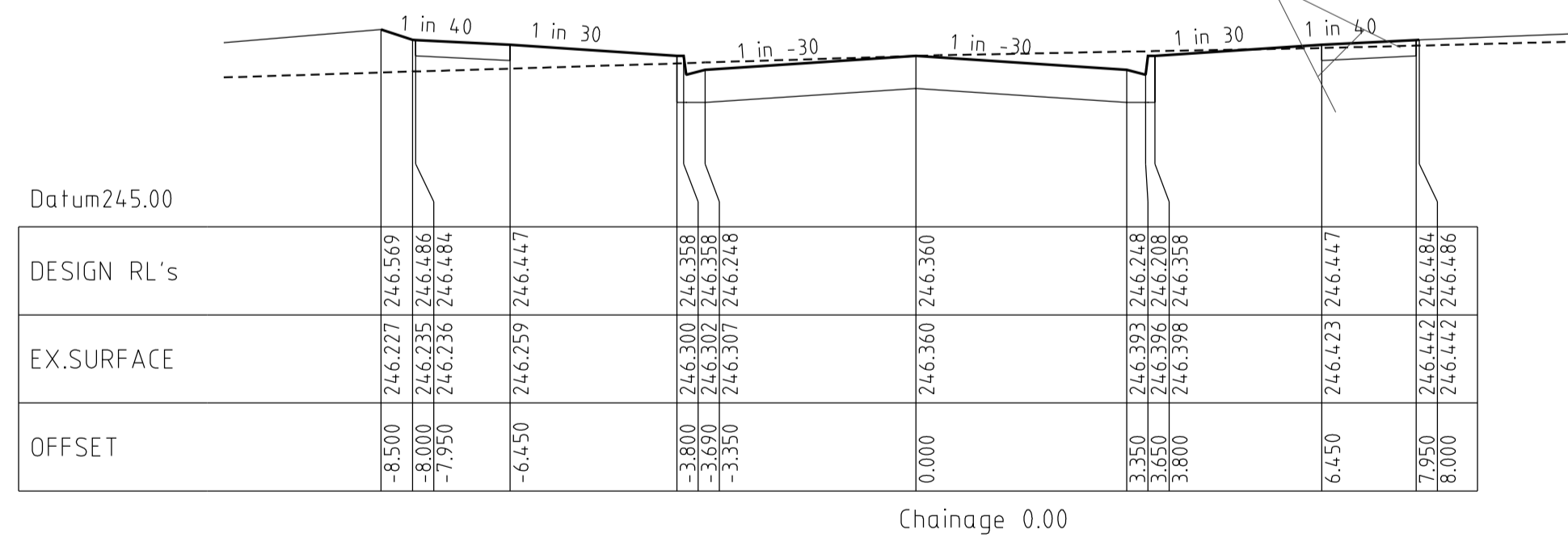
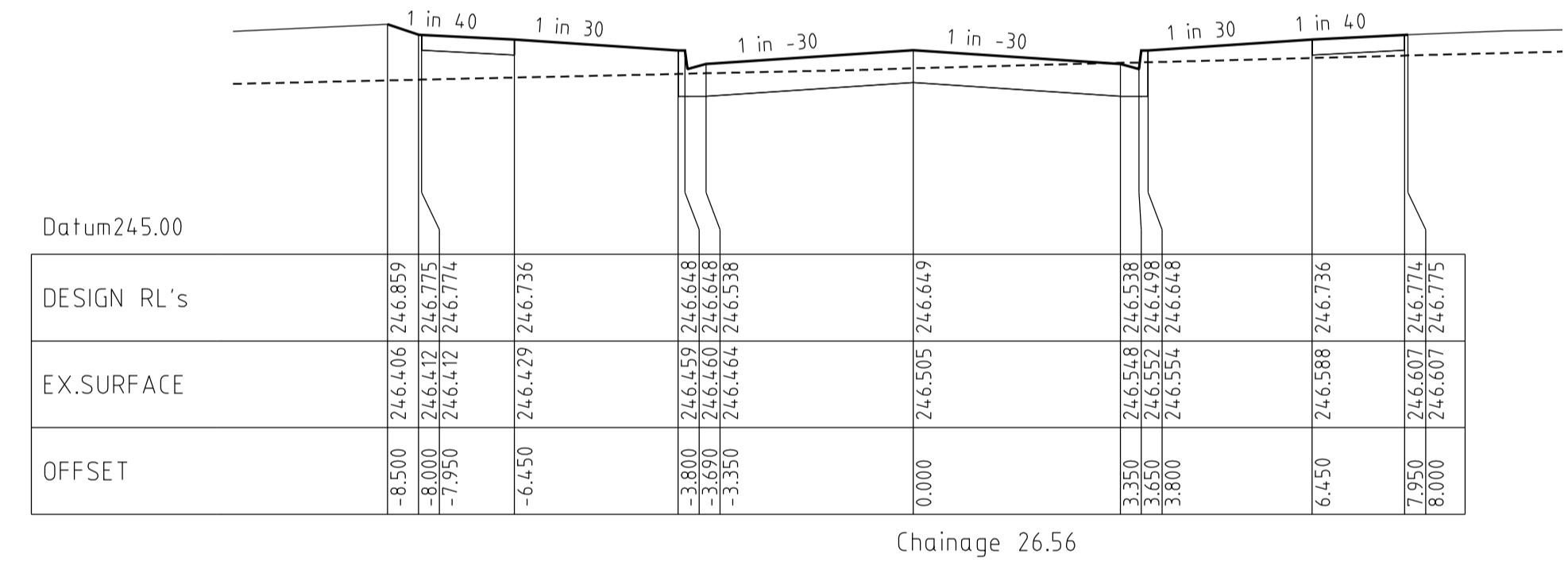
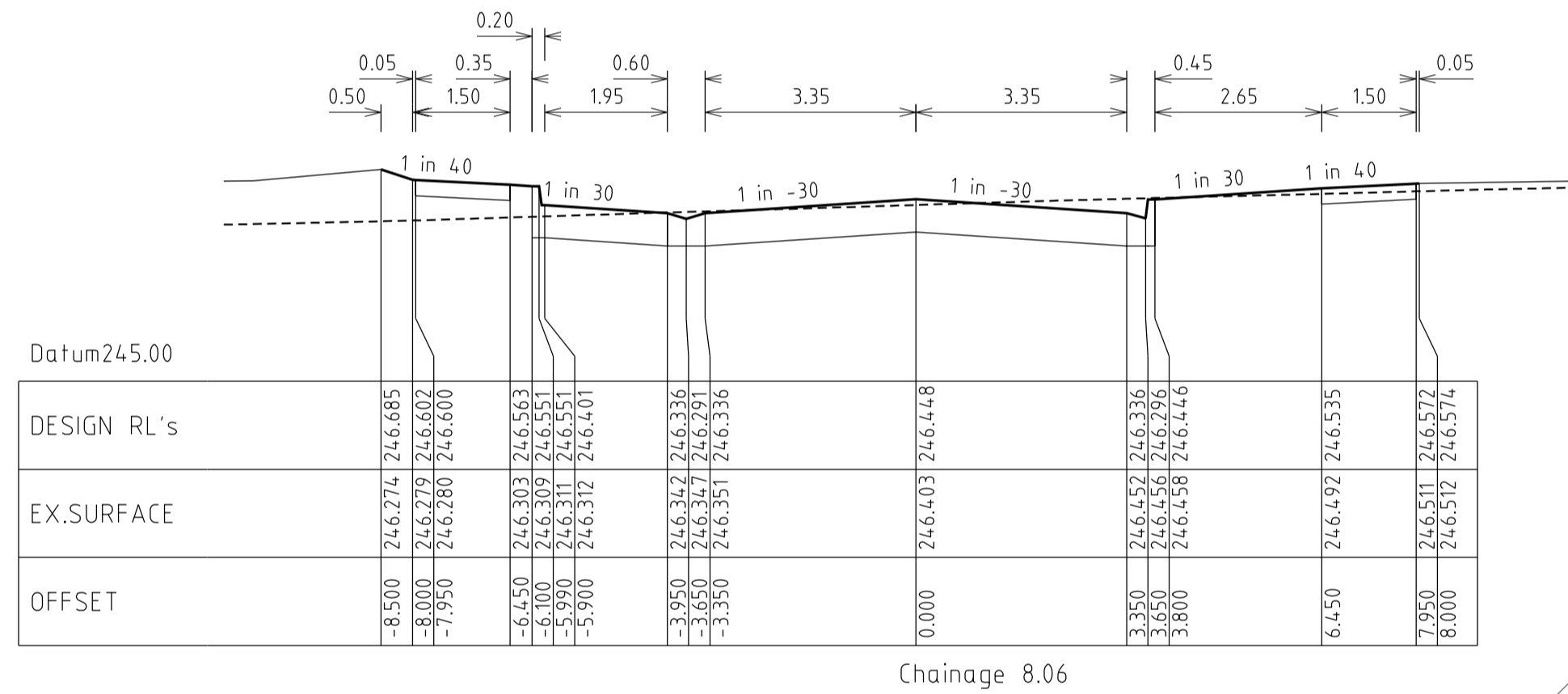
HORIZ 0 5 10 20 30m
VERT 0 5 1 2 3m

Horiz Scale 1 : 500 at A1
Vert Scale 1 : 50 at A1

Horizontal Geometry
Vertical Grade
VC length

Datum RL.242

CHAINAGES	DESIGN CENTRELINE	EXISTING SURFACE
0.00	246.360	246.36
8.06	246.448	246.40
16.06	246.535	246.45
20.00	246.578	246.47
26.56	246.649	246.50
28.20	246.667	246.51
40.00	246.796	246.65
51.80	246.924	246.79
53.56	246.943	246.81
60.00	247.014	246.86
64.11	247.058	246.90
80.00	247.231	247.03
81.36	247.246	247.05
87.71	247.296	247.11
92.54	247.307	247.15
96.36	247.300	247.18
99.83	247.281	247.21
100.00	247.280	247.21
111.36	247.195	247.32
111.41	247.194	247.32
120.00	247.016	247.40
126.41	246.981	247.46
128.28	246.979	247.47
140.00	247.054	247.58
141.41	247.073	247.59
160.00	247.338	247.79
180.00	247.624	248.02
200.00	247.909	248.19
220.00	248.195	248.36
240.00	248.480	248.62
250.12	248.625	248.75
260.00	248.762	248.85
280.00	249.019	249.12
280.12	249.020	249.12



**ROSETTE PARADE
CROSS SECTIONS**

HORIZ 1 0 2 4 6m
VERT 0 5 1 2 3m

Horiz Scale 1 : 100 at A1
Vert. Scale 1 : 50 at A1

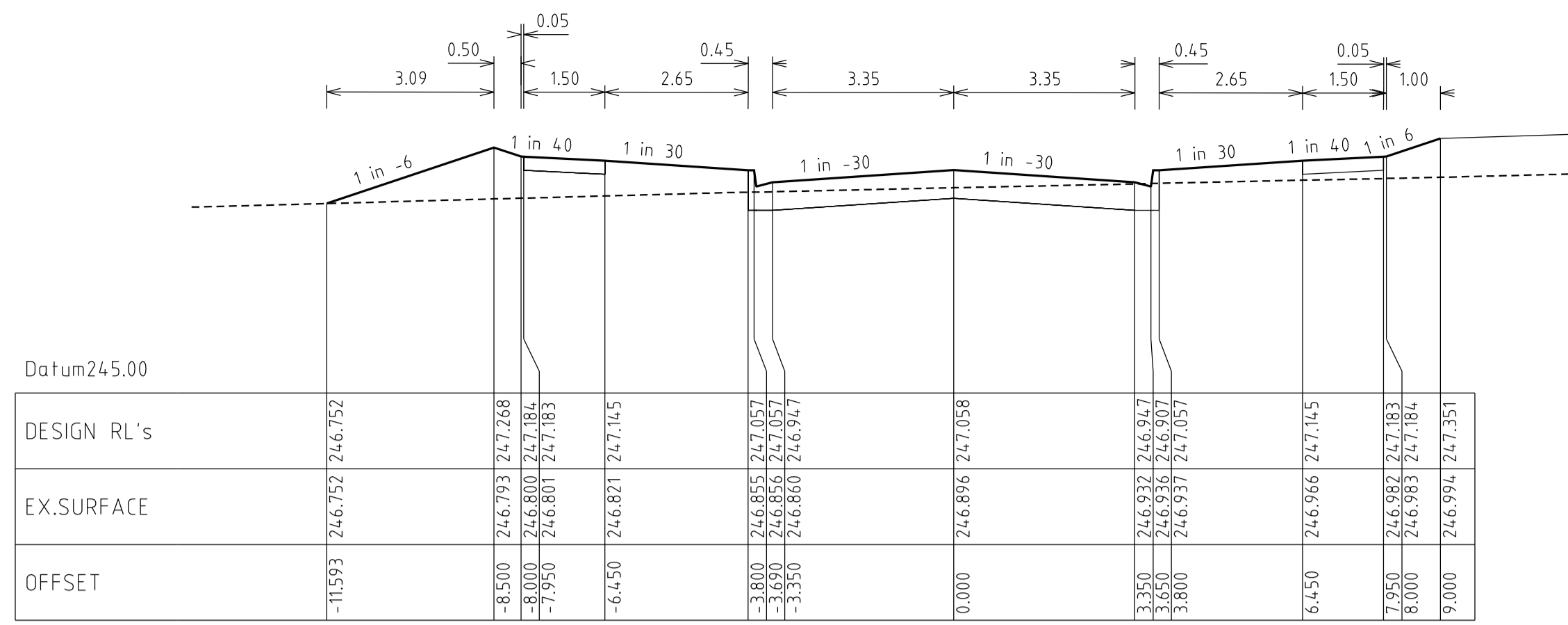
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DATE	DETAILS	AUTHORISED	DATE PRINTED:	28/01/2015
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06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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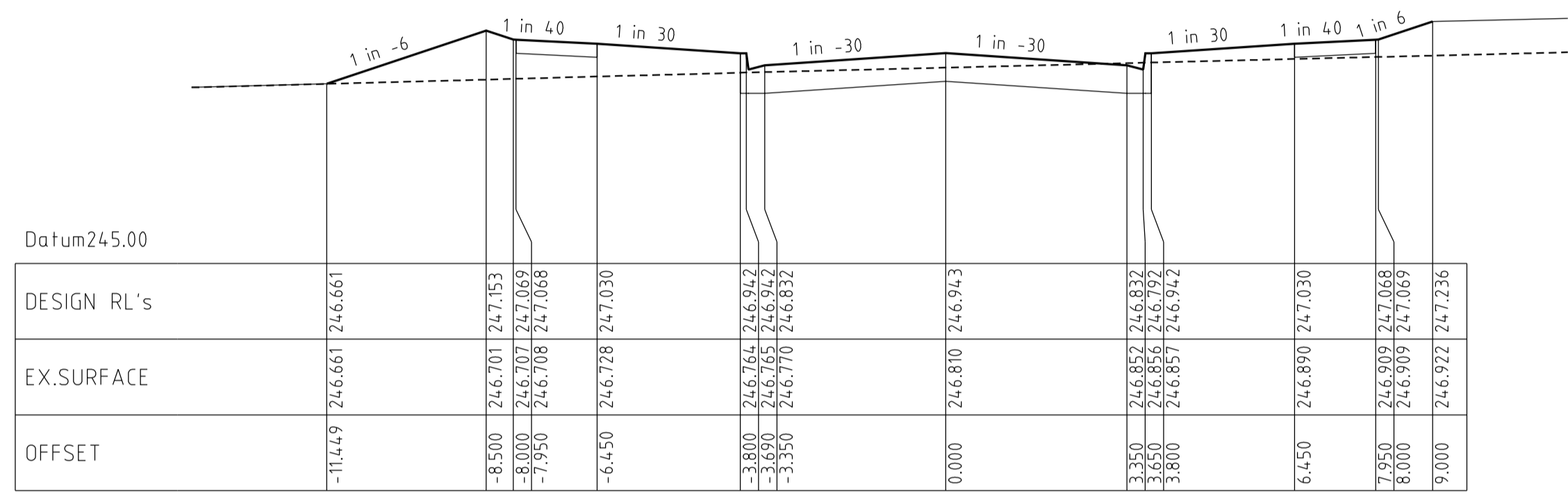
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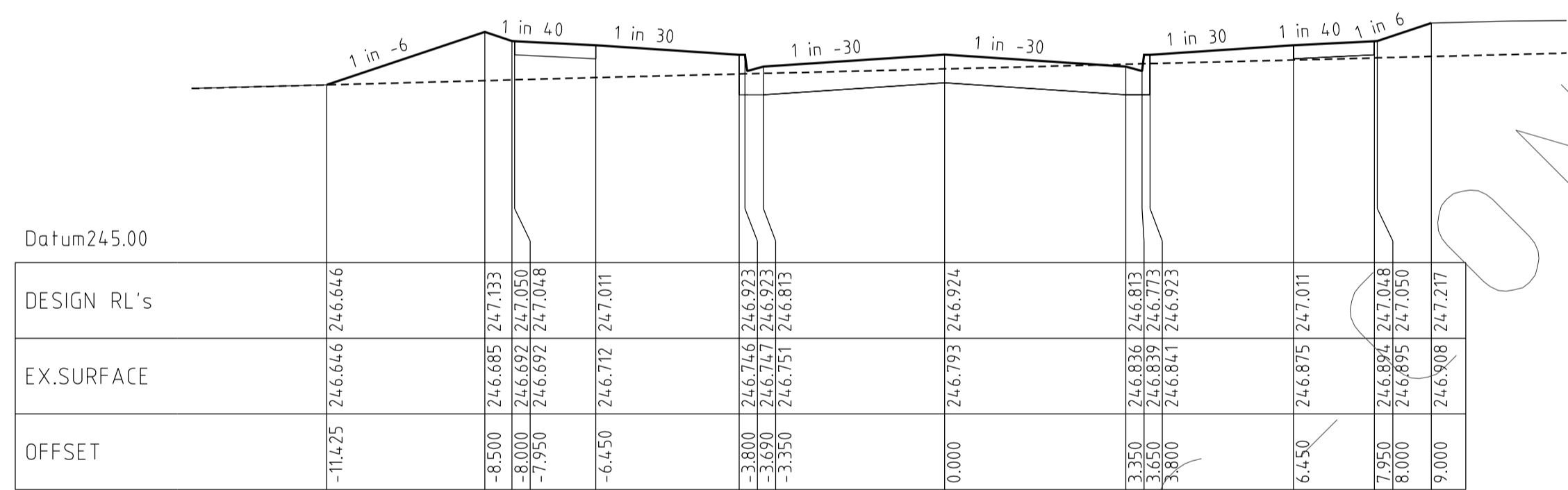
HUME CITY COUNCIL		PLAN NUMBER
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ROSETTE PARADE LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 19 OF 28



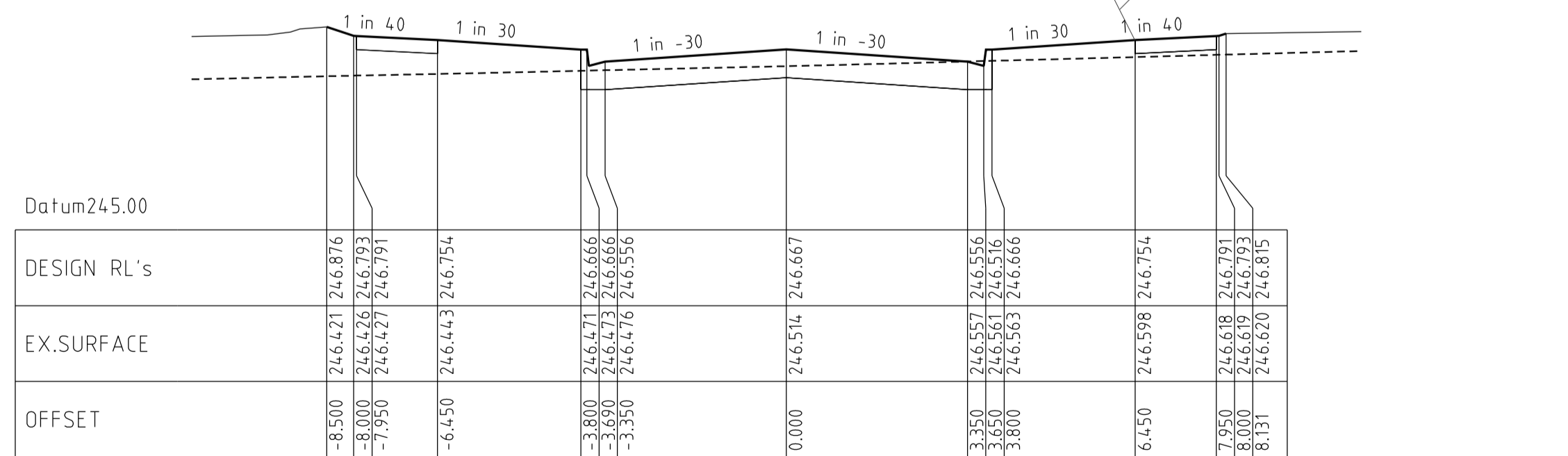
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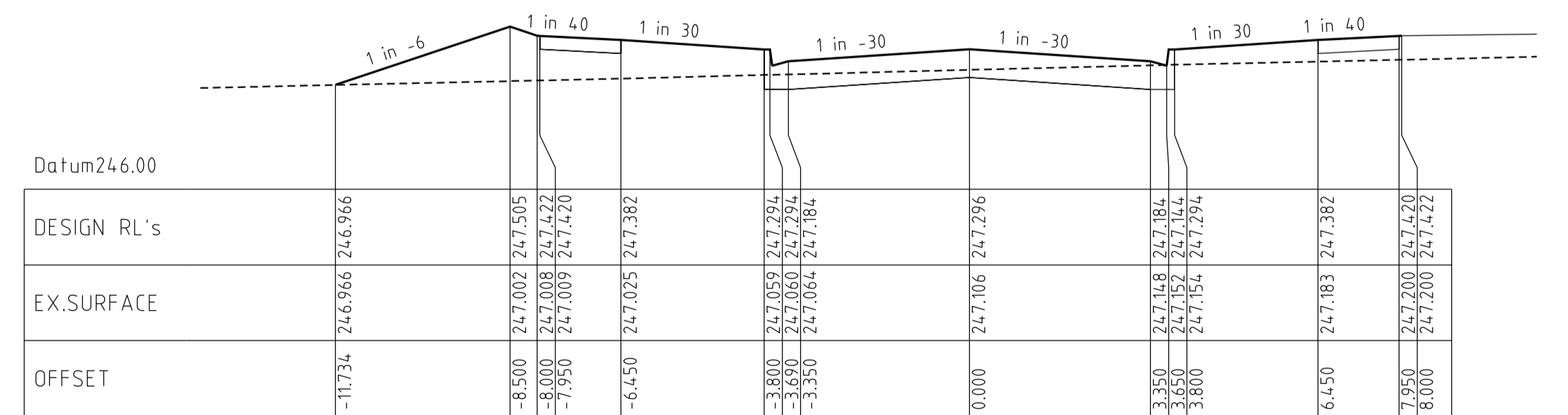
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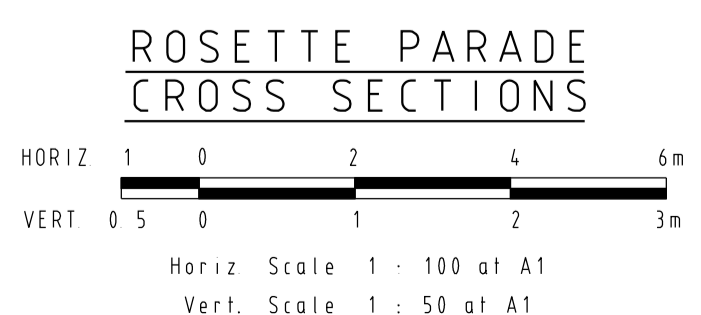
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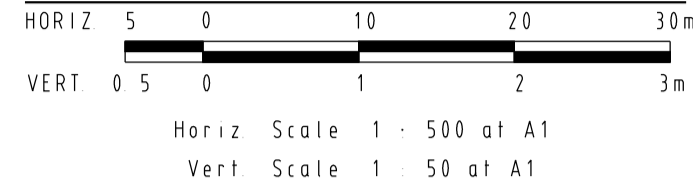
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ROSETTE PARADE CROSS SECTIONS		REVISION Q
		SHEET 20 OF 28

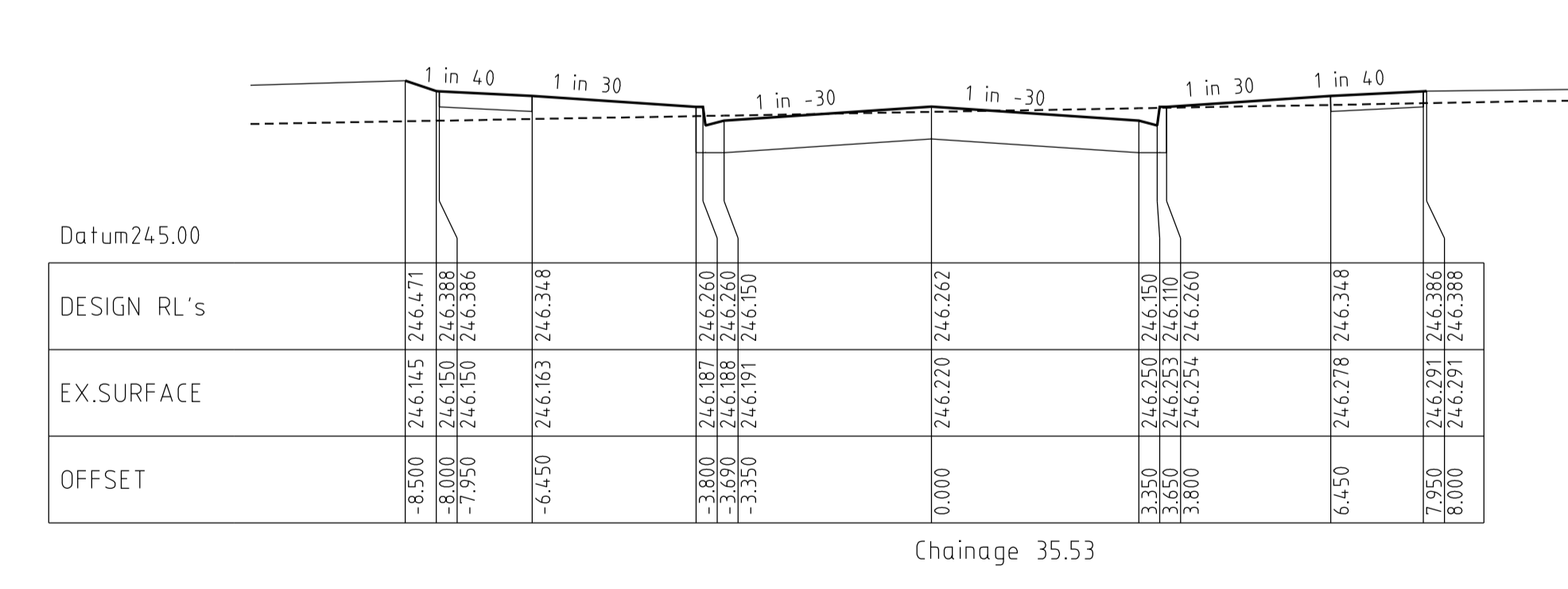
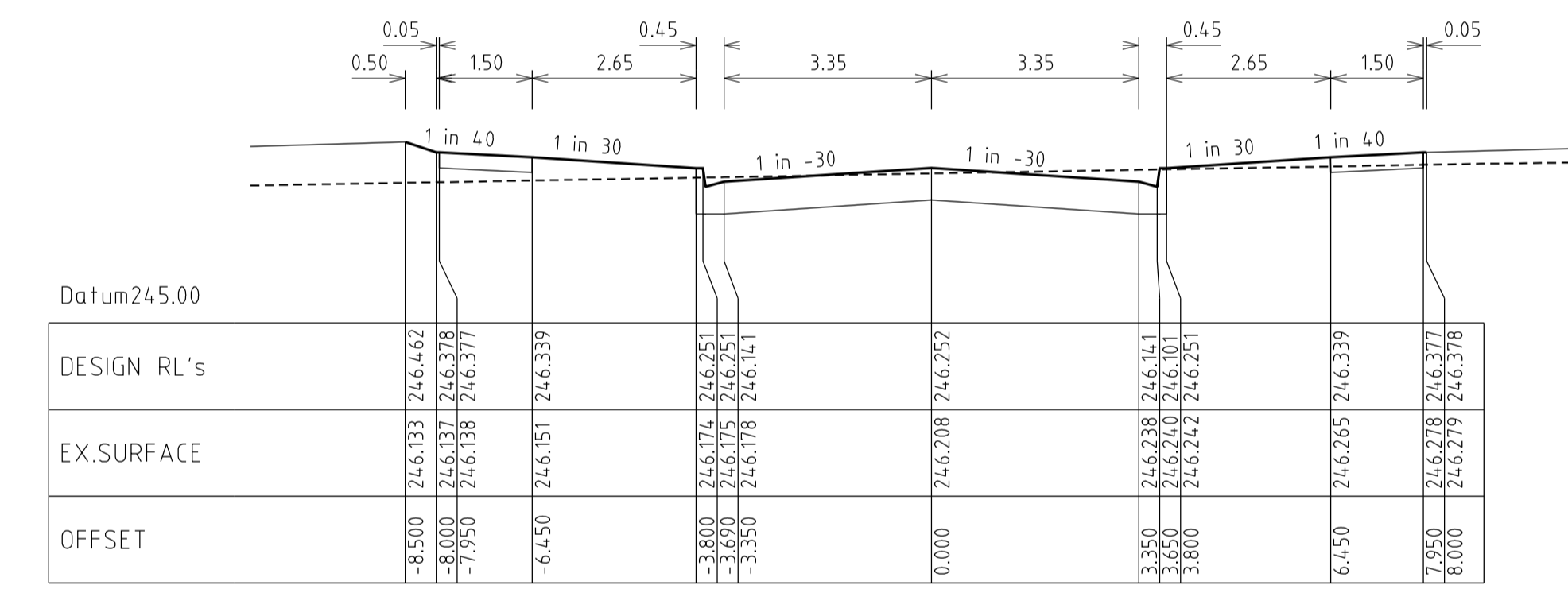
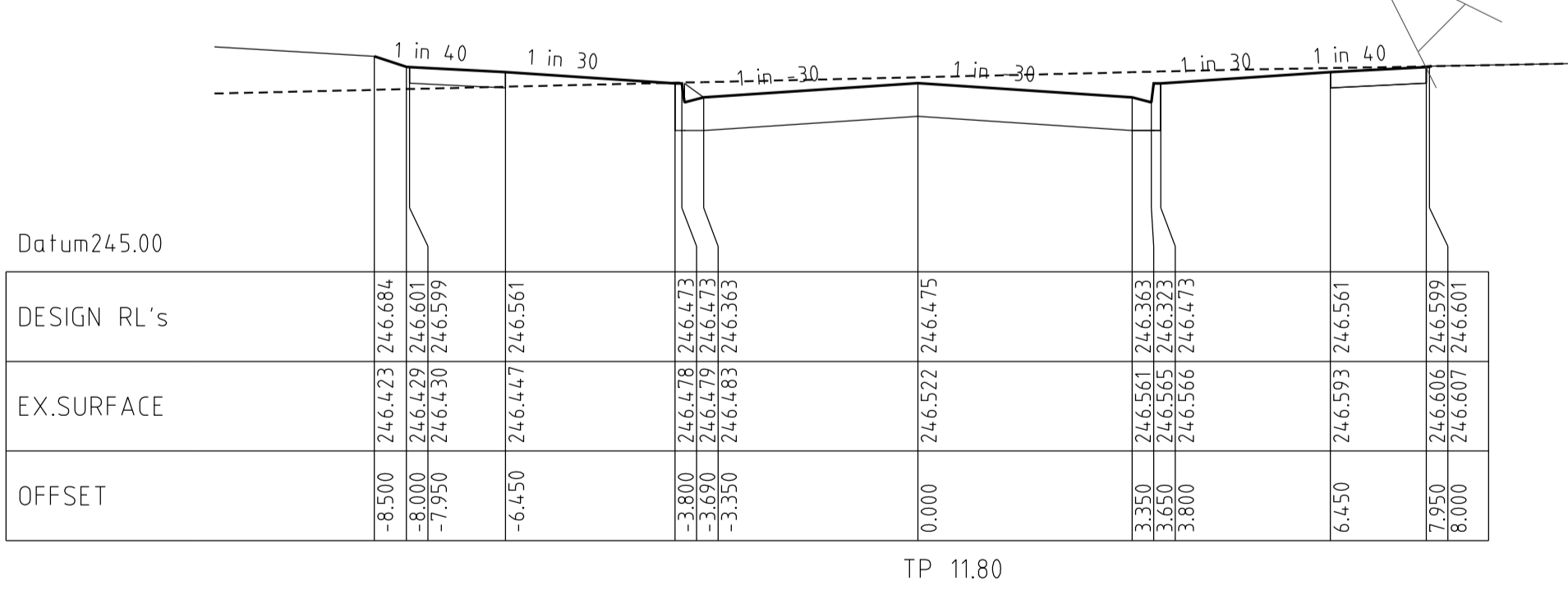
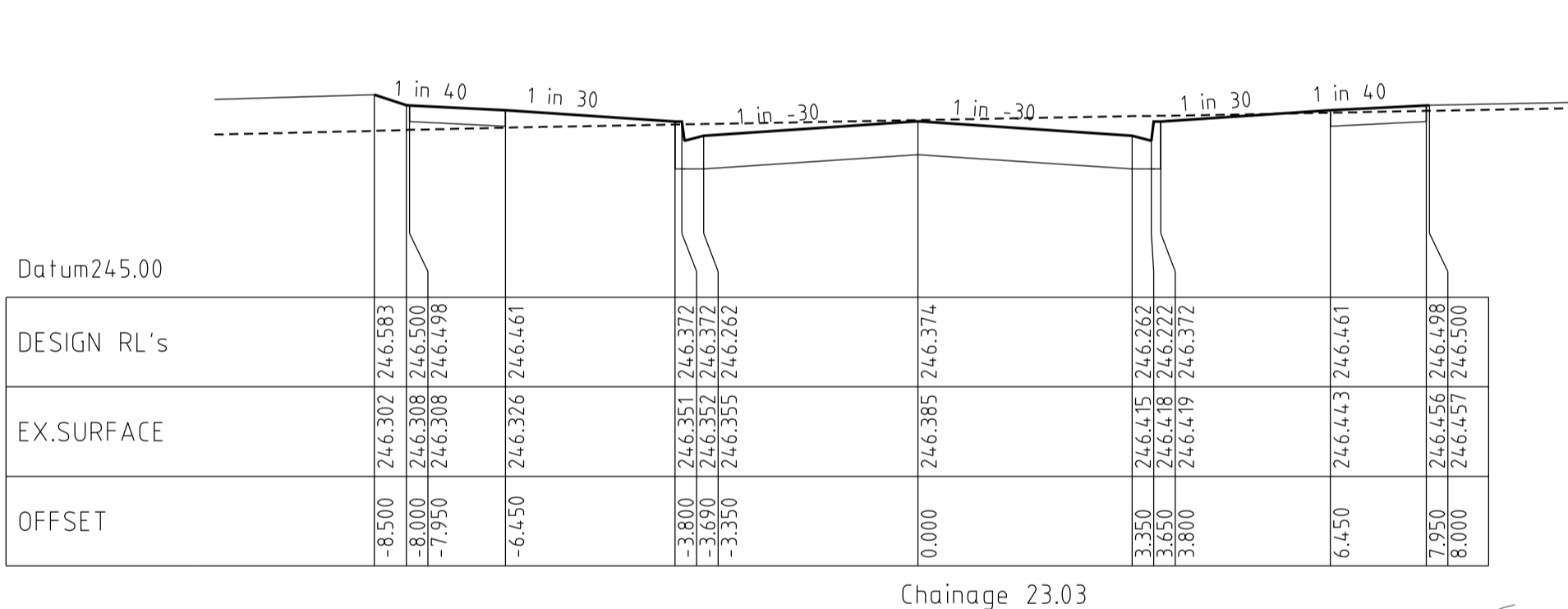
**CALYPSO CRESCENT
LONGITUDINAL SECTION**



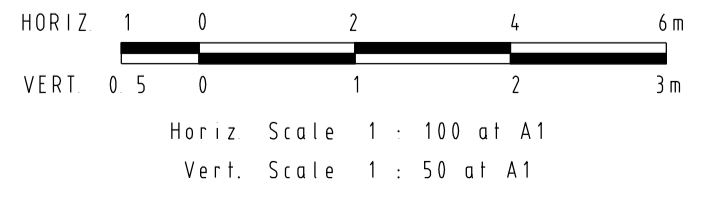
Horizontal Geometry
Vertical Grade
VC length

Datum R.L.240

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EXISTING SURFACE	246.65	246.52	246.43	246.38	246.22	246.27	246.21	246.220	245.96	245.90	245.65	245.65	245.58	245.34	245.30	245.20	245.21	245.24	245.34	245.35
CHAINAGES																				



**CALYPSO CRESCENT
CROSS SECTIONS**



REVISIONS			SCALE:
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4/06/13	N CROSSOVER AMENDMENTS	ASC	PROJECT No.: 36182_3A
06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DRAWN: Z.W.L DATE: AUG 2012
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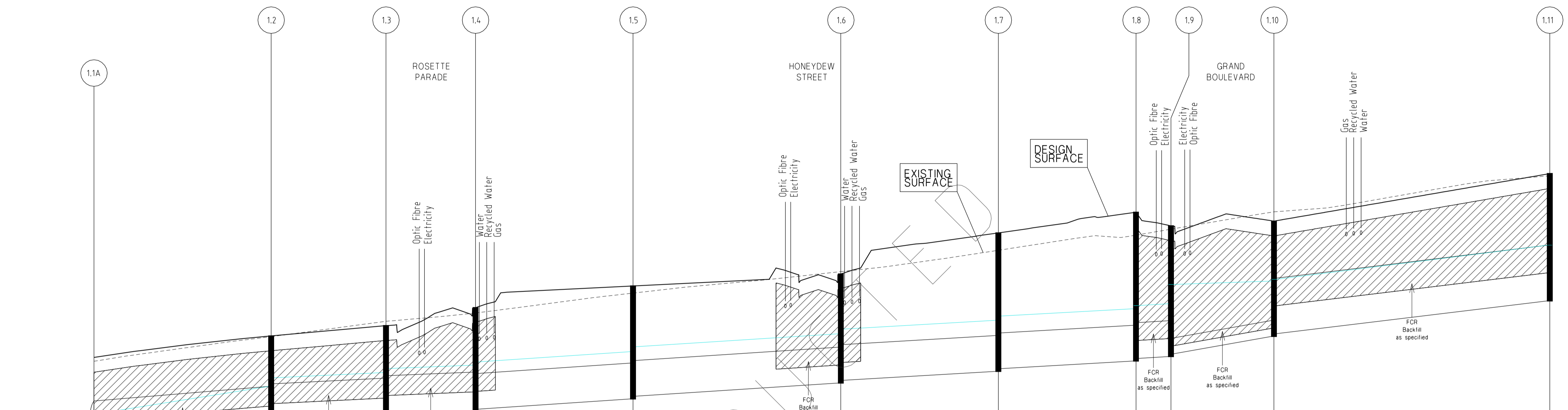
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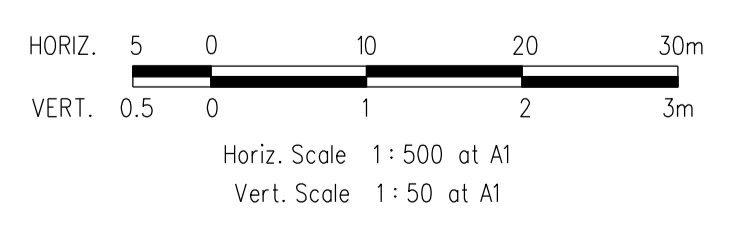
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R21
CALYPSO CRESCENT LONGITUDINAL & CROSS SECTIONS		REVISION Q
		SHEET 21 OF 28



	1.1A	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11
CAPACITY (m ³ /s)		1.000	0.771	0.701	0.679	0.671	0.636	0.628	0.612	0.126	2.980
FLOW (m ³ /s)		0.789	0.756	0.688	0.678	0.665	0.630	0.613	0.605	0.055	0.042
VELOCITY (m/s)		2.508	1.989	1.808	2.162	2.137	2.024	1.999	1.948	1.721	1.230
PIPE SIZE (mm)		750RCP (Class 2)	750RCP (Class 2)	750RCP (Class 2)	675RCP (Class 2)	675RCP (Class 2)	675RCP (Class 2)	675RCP (Class 2)	675RCP (Class 2)	300RCP (Class 2)	1050RCP (Class 2)
GRADE		1 in 124	1 in 208	1 in 252	1 in 153	1 in 157	1 in 175	1 in 179	1 in 189	1 in 58.9	1 in 84
Datum R.L.	239.000										
DEPTH TO INVERT		1.568									
H.G.L. LEVELS	244.818	244.818	245.335	245.359	244.906	245.420	246.584	246.802	246.862	247.324	248.000
INVERT LEVELS	244.315	244.585	244.635	244.739	244.856	245.400	245.620	245.815	245.865	246.906	246.950
FINISHED SURFACE LEVELS	245.883	246.288	246.483	246.823	247.230	247.457	248.233	248.623	248.365	248.155	249.352
CHAINAGE (LENGTH)	0.000	33.480	55.160	72.076	101.826	141.076	170.826	196.826	203.439	222.891	274.991

NOTE:
LOCATION OF GAS, WATER,
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DRAINAGE LONGITUDINAL SECTIONS



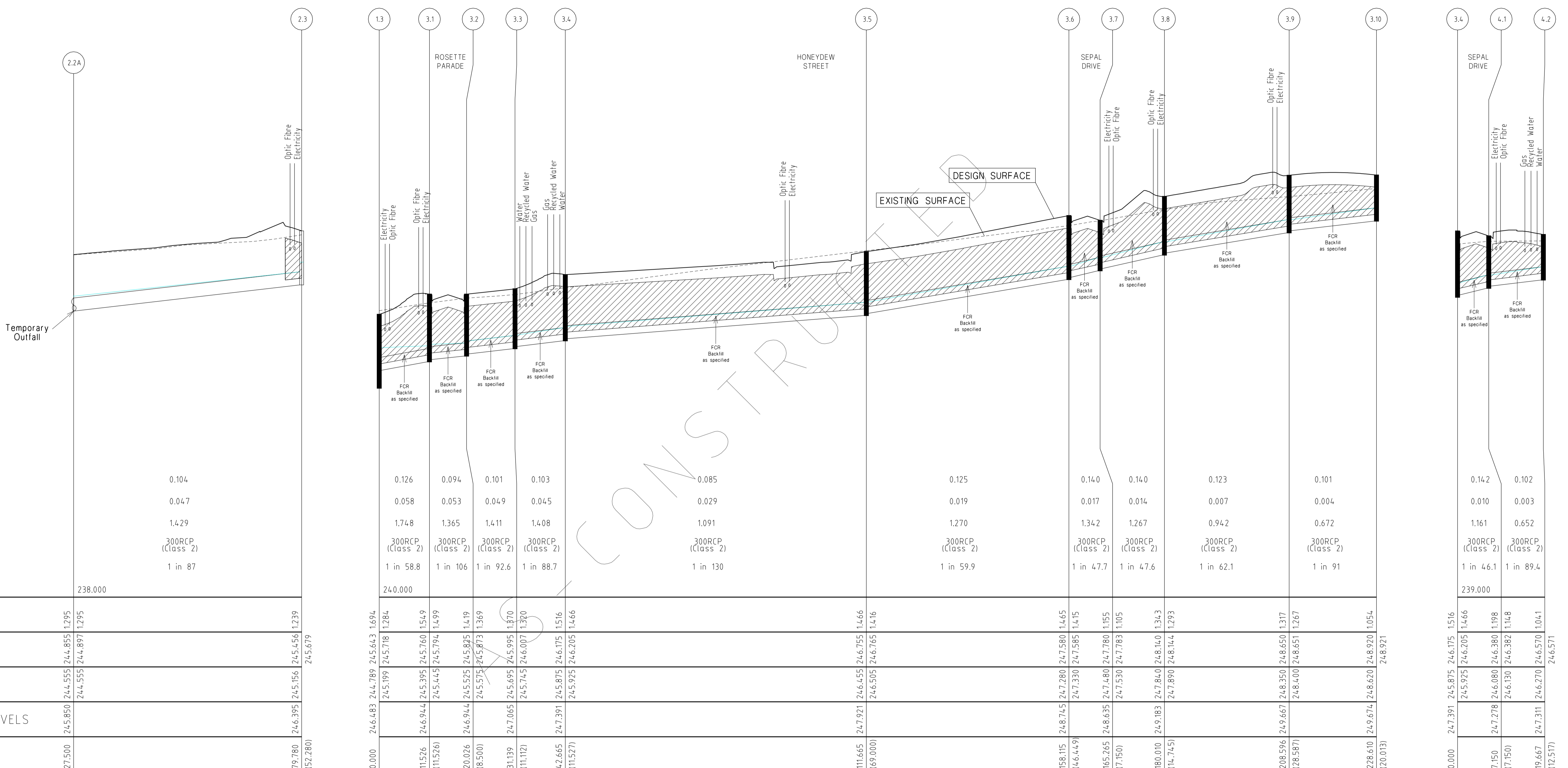
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18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
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4/06/13	N CROSSOVER AMENDMENTS	ASC	DRAWN:	Z.W.L DATE: AUG 2012
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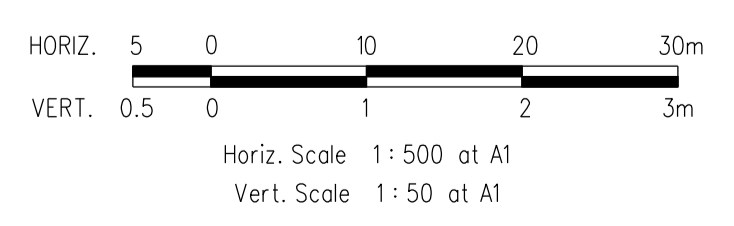
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R22
DRAINAGE LONGITUDINAL SECTION		REVISION Q
		SHEET 22 OF 28



CAPACITY (m ³ /s)	0.104
FLOW (m ³ /s)	0.047
VELOCITY (m/s)	1.429
PIPE SIZE (mm)	300RCP (Class 2)
GRADE	1 in 87
Datum R.L.	238.000
DEPTH TO INVERT	277.500 244.555 244.855 1.295 244.555 244.897 1.295 79.780 246.395 245.156 245.456 1.239 (52.280) 245.679
H.G.L. LEVELS	245.199 245.718 1.284 245.944 245.395 245.760 1.549 245.445 245.794 1.499 246.944 245.525 245.825 1.419 245.575 245.873 1.369 247.065 245.695 245.995 1.870 245.745 246.007 1.320 247.391 245.875 246.175 1.516 245.925 246.205 1.466
INVERT LEVELS	248.745 247.280 247.580 1.465 247.330 247.585 1.415 247.480 247.780 1.155 247.530 247.783 1.105 247.890 248.144 1.293 248.350 248.650 1.317 248.400 248.651 1.267
FINISHED SURFACE LEVELS	248.610 249.674 248.620 1.054 248.921
CHAINAGE (LENGTH)	0.000 246.483 244.789 245.643 1.694 11.526 246.944 245.395 245.760 1.549 (11.526) 245.445 245.794 1.499 20.026 246.944 245.525 245.825 1.419 (8.500) 245.575 245.873 1.369 31.139 247.065 245.695 245.995 1.870 (11.112) 245.745 246.007 1.320 42.665 247.391 245.875 246.175 1.516 (11.527) 245.925 246.205 1.466

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
LOCATION OF GAS, WATER,
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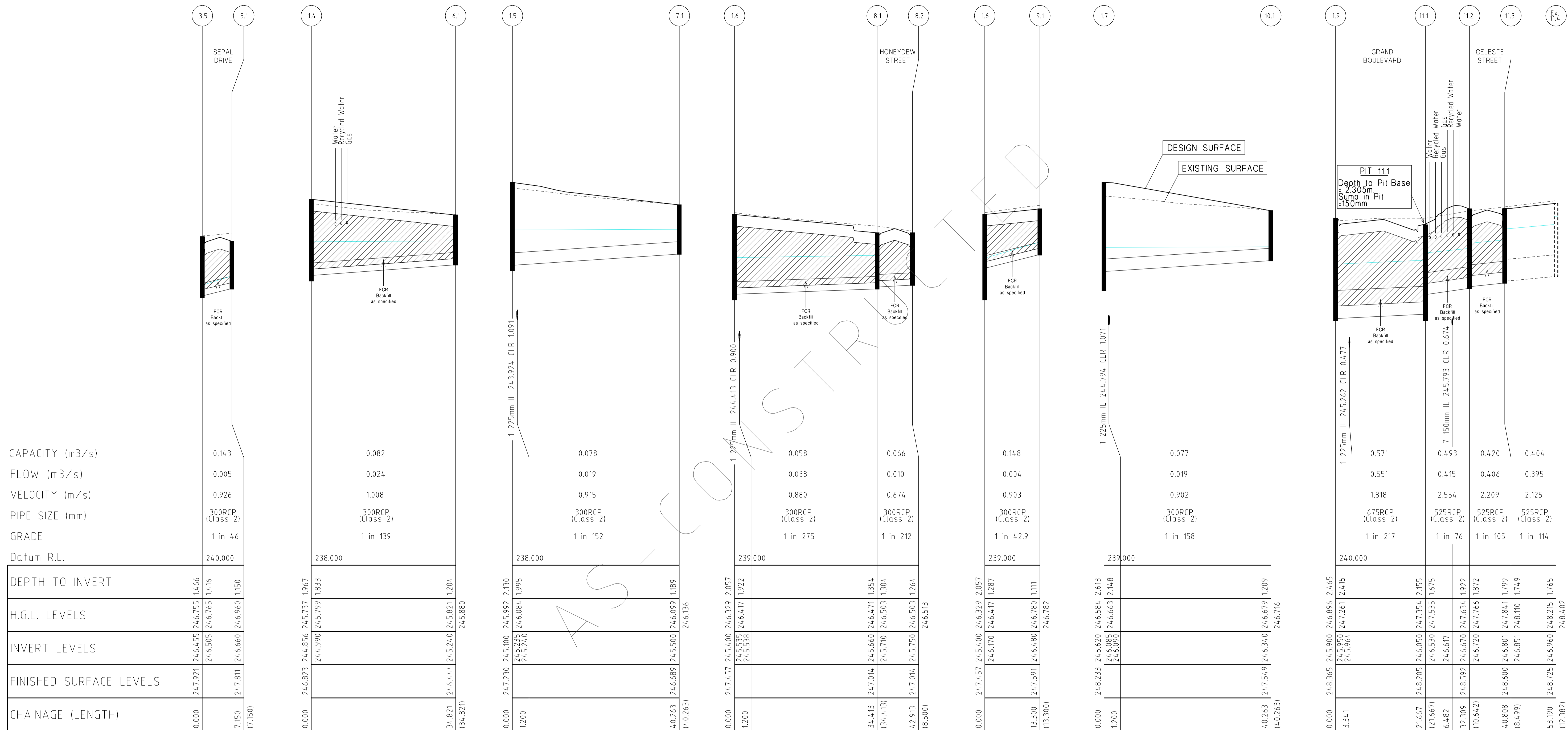
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18/02/14	P AS-CONSTRUCTED	ASC	DATUM:	AHD
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00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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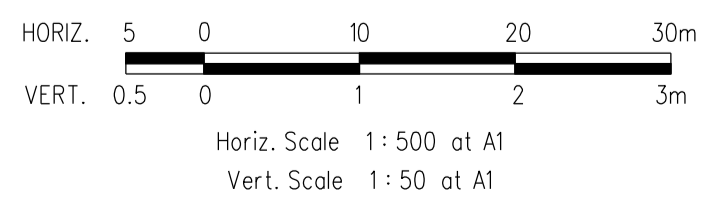
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R23
DRAINAGE LONGITUDINAL SECTIONS		REVISION Q
		SHEET 23 OF 28



CAPACITY (m3/s)	0.143
FLOW (m3/s)	0.005
VELOCITY (m/s)	0.926
PIPE SIZE (mm)	300RCP (Class 2)
GRADE	1 in 46
Datum R.L.	240.000
DEPTH TO INVERT	246.455 246.755 14.66 246.505 246.765 14.16 246.660 246.960 11.50
H.G.L. LEVELS	247.921 247.921 246.455 246.755 14.66 246.505 246.765 14.16 246.660 246.960 11.50
INVERT LEVELS	246.455 246.755 14.66 246.505 246.765 14.16 246.660 246.960 11.50
FINISHED SURFACE LEVELS	247.921 247.921 246.455 246.755 14.66 246.505 246.765 14.16 246.660 246.960 11.50
CHAINAGE (LENGTH)	0.000 7.150 (17.150)

DRAINAGE LONGITUDINAL SECTIONS

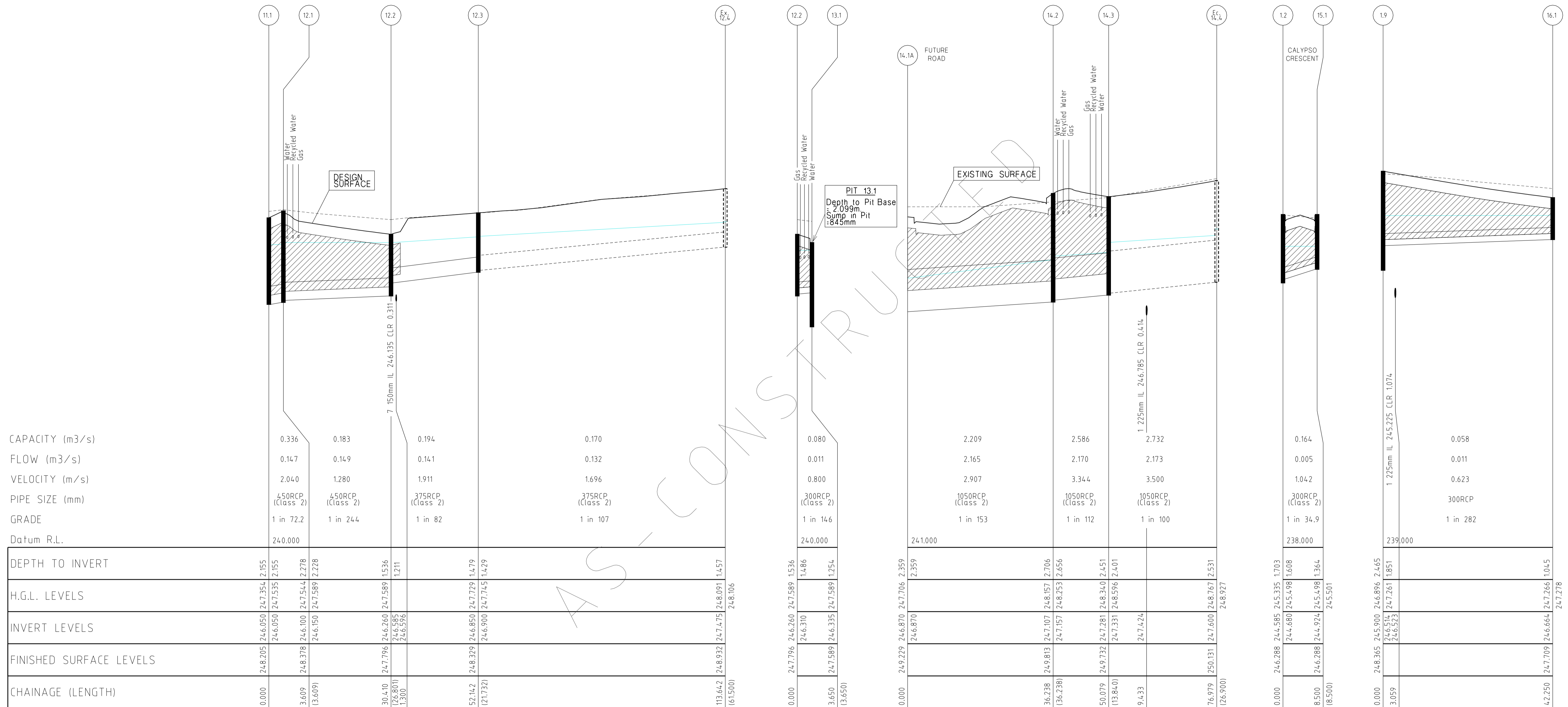
NOTE:
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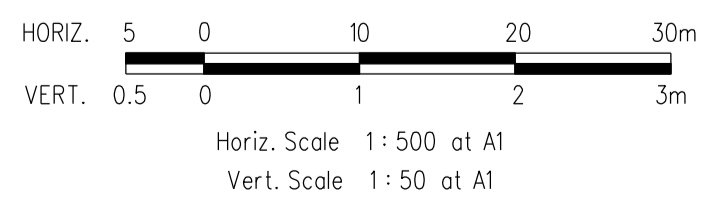
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R24
DRAINAGE LONGITUDINAL SECTIONS		REVISION Q
		SHEET 24 OF 28



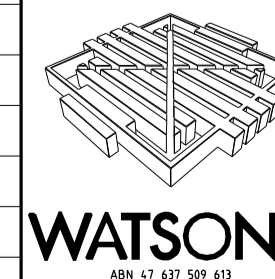
	11.1	12.1	12.2	12.3	EX.4	12.2	13.1	14.1A	14.2	14.3	EX.4	1.2	15.1	1.9	16.1
CAPACITY (m ³ /s)	0.336	0.183	0.194	0.170	0.080	2.209	2.586	2.732	0.164	0.058					
FLOW (m ³ /s)	0.147	0.149	0.141	0.132	0.011	2.165	2.170	2.173	0.005	0.011					
VELOCITY (m/s)	2.040	1.280	1.911	1.696	0.800	2.907	3.344	3.500	1.042	0.623					
PIPE SIZE (mm)	450RCP (Class 2)	450RCP (Class 2)	375RCP (Class 2)	375RCP (Class 2)	300RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	300RCP (Class 2)	300RCP					
GRADE	1 in 72.2	1 in 24.4	1 in 82	1 in 107	1 in 146	1 in 153	1 in 112	1 in 100	1 in 34.9	1 in 282					
Datum R.L.	240.000	240.000	240.000	240.000	240.000	241.000	241.000	241.000	238.000	239.000					
DEPTH TO INVERT	246.050	247.354	246.260	246.850	247.475	246.870	247.107	247.157	244.585	245.900					
H.G.L. LEVELS	246.050	247.535	246.260	247.729	248.091	246.310	248.157	248.253	244.680	246.514					
INVERT LEVELS	246.050	247.589	246.150	247.745	248.106	246.310	247.157	247.281	244.680	246.523					
FINISHED SURFACE LEVELS	248.205	248.378	247.796	248.329	248.932	247.589	249.813	249.732	246.288	248.365					
CHAINAGE (LENGTH)	0.000	3.609	30.410	52.142	113.642	0.000	36.238	50.079	8.500	0.000					

DRAINAGE LONGITUDINAL SECTIONS

NOTE:
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06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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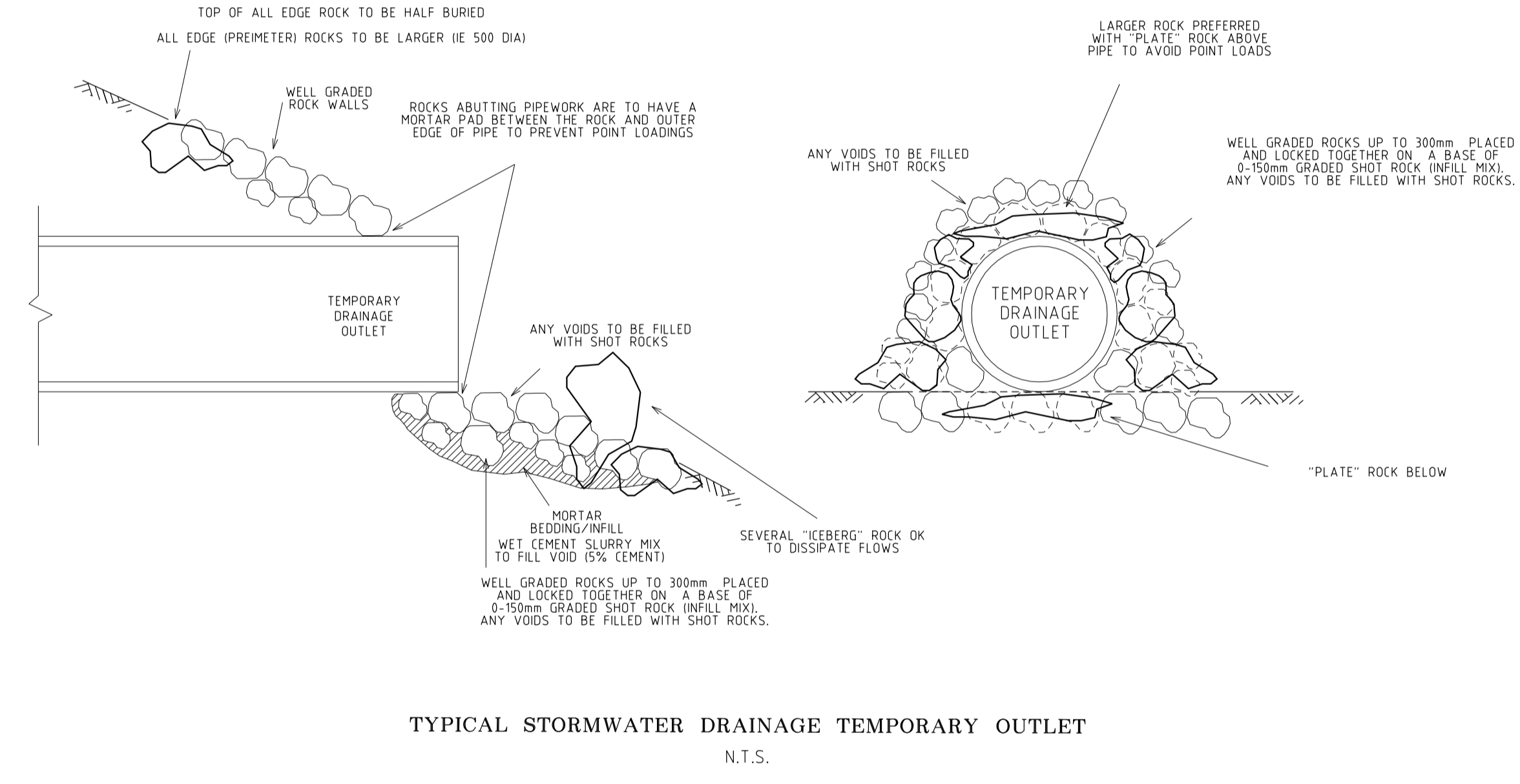
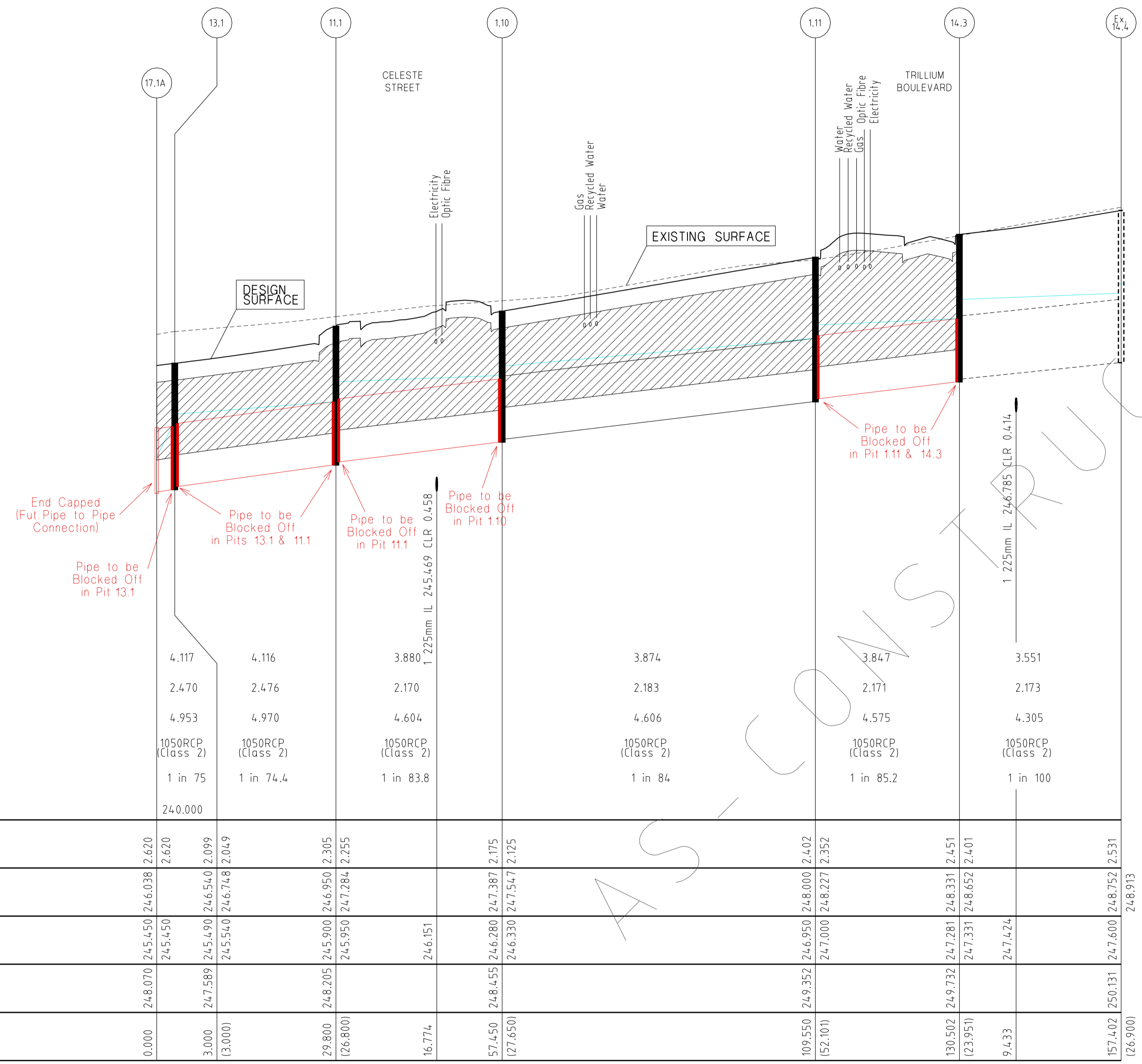
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VILLAWOOD PROPERTIES P/L
TRILLIUM STAGE 3A
MICKLEHAM
ROAD AND DRAINAGE PLANS

PLAN NUMBER
**36182/3A
R25**

DRAINAGE LONGITUDINAL SECTIONS

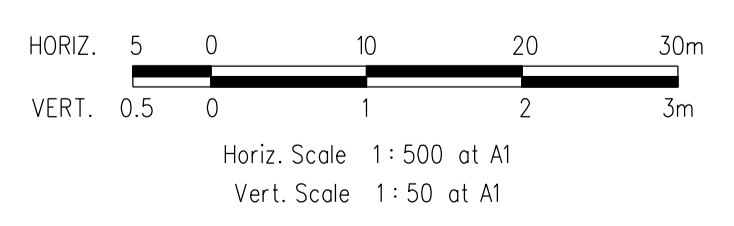
REVISION **Q**
SHEET 25 OF 28

NOTE: Pipes shown in Red represent pipes constructed in advance for Ultimate Drainage Strategy. H.G.L levels shown are H.G.L levels of Ultimate Drainage Strategy.



DRAINAGE LONGITUDINAL SECTIONS

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



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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R26
DRAINAGE LONGITUDINAL SECTIONS & TYPICAL STORMWATER DRAINAGE TEMPORARY OUTLET		REVISION Q
		SHEET 26 OF 28

PIT SCHEDULE


PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
1.11 SEP	900 x 1200	3903.84	9866.898			1050	246.95	249.352	2.402	HAUNCHED PIT: GAA012; SD275(CIRCULAR PIT LID - CLASS D); Pit to be Constructed at Lip of Kerb. Refer to Sheet 3 for Typical Section.
				1050	247				2.402	Inlet Part of Ultimate Drainage Strategy. Inlet to be Blocked Off.
1.10 SEP	900 x 1200	3955.478	9859.975	1050	246.33	300	246.28	248.455	2.175	HAUNCHED PIT: GAA012; SD275(CIRCULAR PIT LID - CLASS D); Pit to be Constructed at Lip of Kerb. Refer to Sheet 3 for Typical Section.
						1050	246.28		2.175	Outlet Part of Ultimate Drainage Strategy. Outlet to be Blocked Off.
1.9 SEP	1500 x 600	3965.557	9843.338	300	245.95	675	245.9	248.365	2.465	GAA012; SD275(CIRCULAR PIT LID)
				675	245.95					Line 11 Enters
				300	246.514					Line 16 Enters
1.8 JP	900 x 600	3967.733	9837.093	675	245.865	675	245.815	248.623	2.808	GAA014; SD275(CIRCULAR PIT LID)
1.7 JP	900 x 600	3964.278	9811.324	675	245.67	675	245.62	248.233	2.613	GAA014; SD275(CIRCULAR PIT LID)
				300	246.085					Line 10 Enters
1.6 JP	900 x 600	3960.325	9781.838	675	245.45	675	245.4	247.457	2.057	GAA014; SD275(CIRCULAR PIT LID)
				300	245.535					Line 8 Enters
				300	246.17					Line 9 Enters
1.5 JP	900 x 600	3955.109	9742.936	675	245.15	675	245.1	247.23	2.13	GAA014; SD275(CIRCULAR PIT LID)
				300	245.235					Line 7 Enters
1.4 JP	900 x 600	3951.155	9713.45	675	244.906	750	244.856	246.823	1.967	GAA014; SD275(CIRCULAR PIT LID)
				300	244.99					Line 6 Enters
1.3 JP	900 x 900	3945.983	9697.344	750	244.789	750	244.739	246.483	1.744	GAA014; SD275(CIRCULAR PIT LID)
				300	245.199					Line 3 Enters
1.2 SEP	900 x 900	3943.102	9675.856	750	244.635	750	244.585	246.288	1.703	GAA012; SD275(CIRCULAR PIT LID)
				300	244.68					Line 15 Enters
1.1A OUT	-	3938.653	9642.673	750	244.315			245.883	1.568	Temporary Outfall
2.3 SEP	900 x 600	3988.941	9699.807			300	245.156	246.395	1.239	GAA012; SD275(CIRCULAR PIT LID)
2.2A OUT	-	3981.993	9647.991	300	244.555	300	244.555	245.85	1.295	Temporary Outfall
3.10 SEP	900 x 600	3870.296	9856.11			300	248.62	249.674	1.054	GAA012; SD275(CIRCULAR PIT LID)
3.9 SEP	900 x 600	3890.132	9853.451	300	248.4	300	248.35	249.667	1.317	GAA012; SD275(CIRCULAR PIT LID)
3.8 SEP	900 x 600	3918.465	9849.652	300	247.89	300	247.84	249.183	1.343	GAA012; SD275(CIRCULAR PIT LID)
3.7 SEP	900 x 600	3930.363	9840.943	300	247.53	300	247.48	248.635	1.155	GAA012; SD275(CIRCULAR PIT LID); Pit to be Constructed at Lip of Kerb.
3.6 SEP	900 x 600	3937.45	9839.993	300	247.33	300	247.28	248.745	1.465	GAA012; SD275(CIRCULAR PIT LID)
3.5 SEP	900 x 600	3931.277	9793.955	300	246.505	300	246.455	247.921	1.466	GAA012; SD275(CIRCULAR PIT LID)
				300	246.505					Line 5 Enters
3.4 SEP	900 x 600	3922.108	9725.567	300	245.925	300	245.875	247.391	1.516	GAA012; SD275(CIRCULAR PIT LID)
				300	245.925					Line 4 Enters
3.3 JP	900 x 600	3929.103	9716.406	300	245.745	300	245.695	247.065	1.37	GAA014; SD275(CIRCULAR PIT LID)
3.2 SEP	900 x 600	3940.117	9714.929	300	245.575	300	245.525	246.944	1.419	GAA012; SD275(CIRCULAR PIT LID)
3.1 SEP	900 x 600	3938.988	9706.505	300	245.445	300	245.395	246.944	1.549	GAA012; SD275(CIRCULAR PIT LID)
4.2 SEP	900 x 600	3904.523	9719.702			300	246.27	247.311	1.041	GAA012; SD275(CIRCULAR PIT LID)
4.1 SEP	900 x 600	3915.021	9726.517	300	246.13	300	246.08	247.278	1.198	GAA012; SD275(CIRCULAR PIT LID); Pit to be Constructed at Lip of Kerb.
5.1 SEP	900 x 600	3924.191	9794.905			300	246.66	247.811	1.15	GAA012; SD275(CIRCULAR PIT LID); Pit to be Constructed at Lip of Kerb.

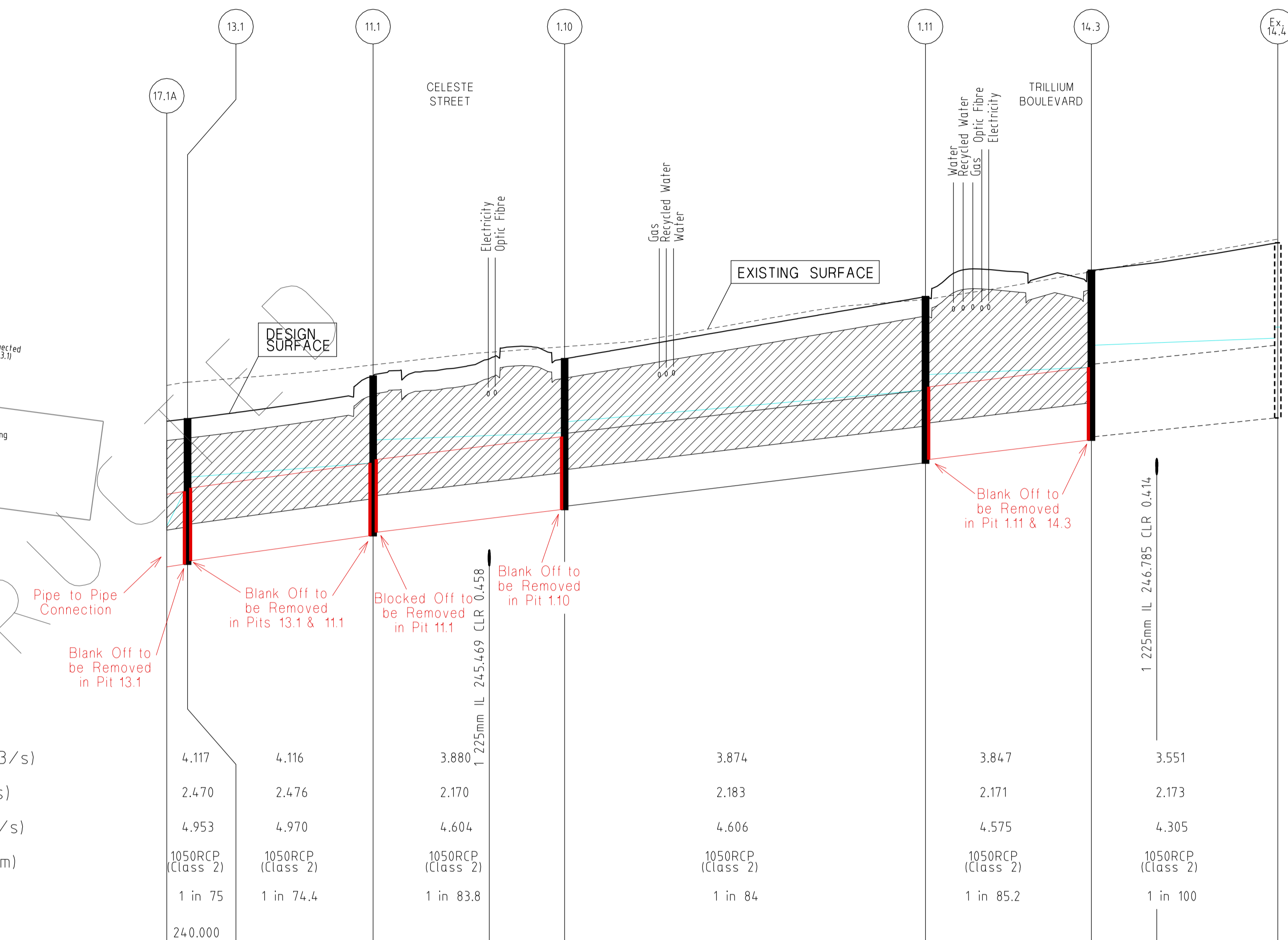
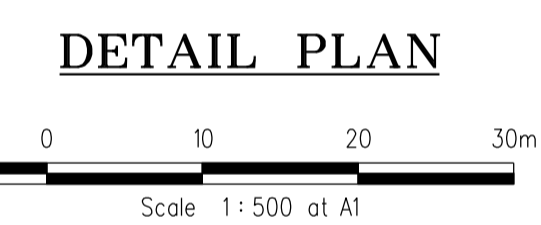
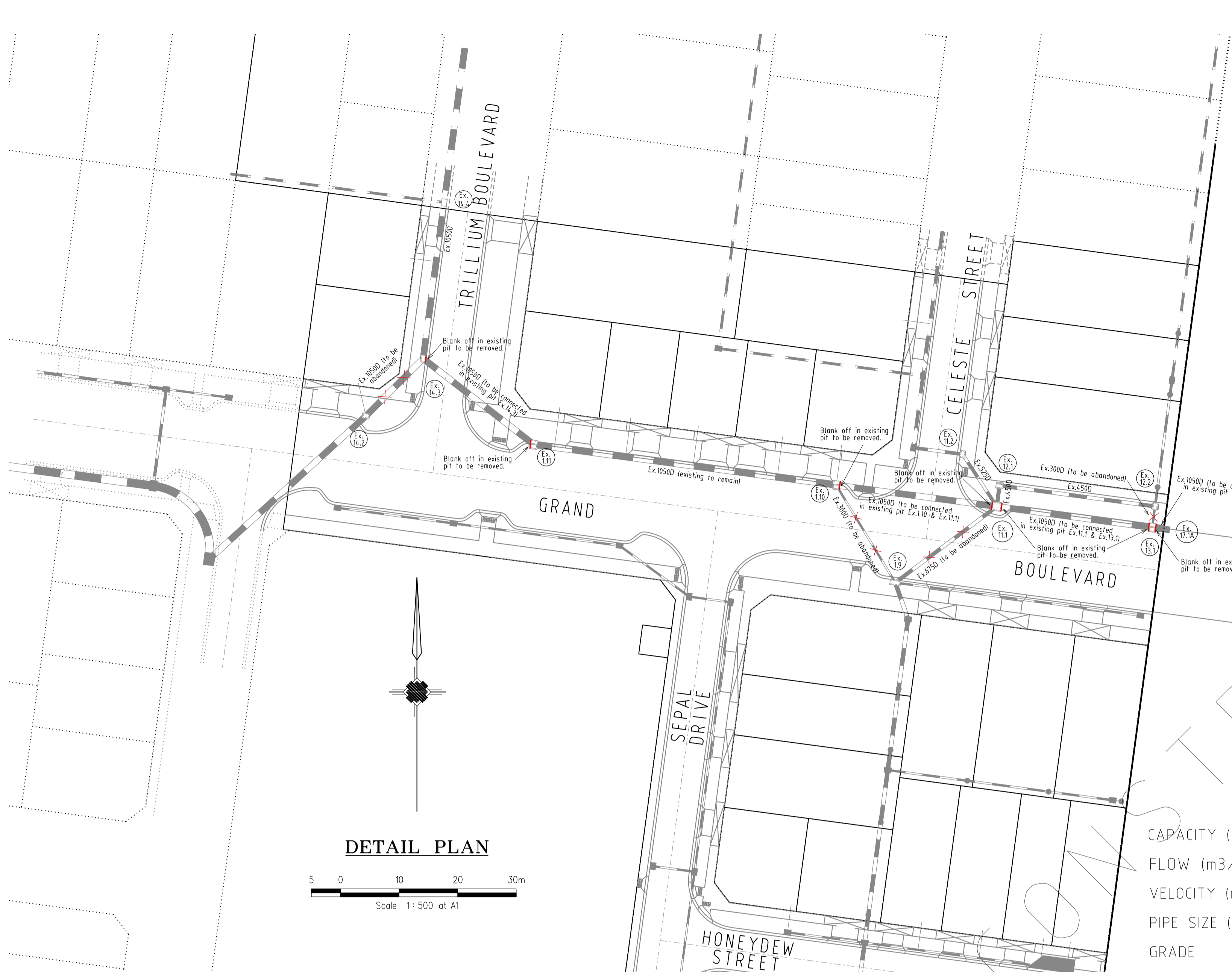
PIT SCHEDULE

PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
6.1 SEP	900 x 600	3985.668	9708.822			300	245.24	246.444	1.204	GAA012; SD275(CIRCULAR PIT LID)
7.1 JP	900 x 600	3995.015	9737.585			300	245.5	246.689	1.189	GAA014; SD275(CIRCULAR PIT LID)
8.2 SEP	900 x 600	3993.303	9768.84			300	245.75	247.014	1.264	GAA012; SD275(CIRCULAR PIT LID)
8.1 SEP	900 x 600	3994.432	9777.264	300	245.71	300	245.66	247.014	1.354	GAA012; SD275(CIRCULAR PIT LID)
9.1 JP	900 x 600	3947.142	9783.605			300	246.48	247.591	1.111	GAA014; SD275(CIRCULAR PIT LID)
10.1 JP	900 x 600	4004.184	9805.973			300	246.34	247.549	1.209	GAA014; SD275(CIRCULAR PIT LID)
Ex. 11.4 JP	Existing	3970.292	9878.654			525	246.96	248.725	1.765	Existing Pit
11.3 SEP	900 x 600	3968.646	9866.382	525	246.851	525	246.801	248.6	1.799	GAA012; SD275(CIRCULAR PIT LID)
11.2 SEP	900 x 600	3977.07	9865.252	525	246.72	525	246.67	248.592	1.922	GAA012; SD275(CIRCULAR PIT LID)
11.1 JP	1350 x 1200	3982.888	9856.341	525	246.53	675	246.05	248.205	2.155	GAA014; SD275(CIRCULAR PIT LID)
				450	246.05					Line 12 Enters
				1050	245.95	1050	245.9		2.305	Inlet & Outlet Part of Ultimate Drainage Strategy. Inlet & Outlet to be Blocked Off. 150mm Sump in Pit to Cater for Ultimate Drainage Strategy.
Ex. 12.4 JP	Existing	4020.99	9938.851			375	247.475	248.932	1.457	Existing Pit
12.3 JP	900 x 600	4012.818	9877.897	375	246.9	375	246.85	248.329	1.479	GAA014; SD275(CIRCULAR PIT LID)
12.2 JP	900 x 600	4009.93	9856.357	375	246.585	450	246.26	247.796	1.536	GAA014; SD275(CIRCULAR PIT LID)
				300	246.31					Line 13 Enters
12.1 JP	900 x 600	3983.367	9859.918	450	246.15	450	246.1	248.378	2.278	GAA014; SD275(CIRCULAR PIT LID)
13.1 SEP	900 x 1200	4009.445	9852.739			300	246.335	247.589	1.254	HAUNCHED PIT: GAA012; SD275(CIRCULAR PIT LID - CLASS D); Pit to be Constructed at Lip of Kerb. Refer to Sheet 3 for Typical Section.
				1050	245.54	1050	245.49		2.099	Inlet & Outlet Part of Ultimate Drainage Strategy. Inlet & Outlet to be Blocked Off. 845mm Sump in Pit to Cater for Ultimate Drainage Strategy.
Ex. 14.4 JP	Existing	3888.5	9908.253			1050	247.6	250.131	2.531	Existing Pit
14.3 SEP	1350 x 1500	3884.925	9881.592	1050	247.331	1050	247.281	249.732	2.451	GAA012; SD275(CIRCULAR PIT LID)
						1050	247.281		2.451	Outlet Part of Ultimate Drainage Strategy. Outlet to be Blocked Off.
14.2 JP	1650 x 600	3875.138	9871.805	1050	247.157	1050	247.107	249.813	2.706	GAA014; SD275(CIRCULAR PIT LID)
14.1A OUT	-	3848.389	9847.358	1050	246.87			249.229	2.359	Temporary Outfall
15.1 SEP	900 x 600	3951.526	9674.727			300	244.924	246.288	1.364	GAA012; SD275(CIRCULAR PIT LID)
16.1 SEP	900 x 600	4007.432	9837.723			300	246.664	247.709	1.045	GAA012; SD275(CIRCULAR PIT LID)
17.1A PC	-	4012.418	9852.341	1050	245.45			246.5	1.05	End Capped (Future Pipe to Pipe Connection)

NOTE:

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

REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>DETAILS</th> <th>AUTHORISED</th> </tr> </thead> <tbody> <tr> <td>26/08/14</td> <td>Q LOT330/331 CROSSOVER AMENDMENT</td> <td>ASC</td> </tr> <tr> <td>18/02/14</td> <td>P AS-CONSTRUCTED</td> <td>ASC</td> </tr> <tr> <td>13/09/13</td> <td>O ELECTRICAL KIOSK ADDED</td> <td>ASC</td> </tr> <tr> <td>4/06/13</td> <td>N CROSSOVER AMENDMENTS</td> <td>ASC</td> </tr> <tr> <td>00/05/13</td> <td>M SERVICE OFFSET AMENDMENTS</td> <td>ASC</td> </tr> </tbody> </table>		DATE	DETAILS	AUTHORISED	26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC	18/02/14	P AS-CONSTRUCTED	ASC	13/09/13	O ELECTRICAL KIOSK ADDED	ASC	4/06/13	N CROSSOVER AMENDMENTS	ASC	00/05/13	M SERVICE OFFSET AMENDMENTS	ASC	SCALE: AS SHOWN DATE PRINTED: 28/01/2015 LEVEL DATA: K:\36182\36182\LT00 DATUM: AHD PROJECT No.: 36182_3A DRAWN: Z.W.L. DATE: AUG 2012 DESIGNED: Z.W.L. DATE: AUG 2012 AUTHORISED: A.S.C. DATE: AUG 2012	 MORNINGTON 5 Main Street P.O. Box 111 9311 Phone: (03) 5975 4444 Fax: (03) 5975 9916 DX: 93118 Mornington MELBOURNE The Melbourne Suite 2 326 St. Kilda Road Melbourne, 3002 Phone: (03) 9697 8000 Fax: (03) 9697 8099	HUME CITY COUNCIL VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS PLAN NUMBER 36182/3A R26A
DATE	DETAILS	AUTHORISED																				
26/08/14	Q LOT330/331 CROSSOVER AMENDMENT	ASC																				
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4/06/13	N CROSSOVER AMENDMENTS	ASC																				
00/05/13	M SERVICE OFFSET AMENDMENTS	ASC																				
PIT SCHEDULE			REVISION Q SHEET 26A OF 28																			



	13.1	11.1	1.10	1.11	14.3	EX 14.4
CAPACITY (m3/s)	4.117	4.116	3.880	3.874	3.847	3.551
FLOW (m3/s)	2.470	2.476	2.170	2.183	2.171	2.173
VELOCITY (m/s)	4.953	4.970	4.604	4.606	4.575	4.305
PIPE SIZE (mm)	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)	1050RCP (Class 2)
GRADE	1 in 75	1 in 74.4	1 in 83.8	1 in 84	1 in 85.2	1 in 100
Datum R.L.	240.000					

PIT SCHEDULE

PIT NO. & TYPE	INTERNAL DIMENSIONS	EASTING	NORTHING	INLET DIA.	INLET I.L.	OUTLET DIA.	OUTLET I.L.	COVER LEVEL	DEPTH TO INVERT	REMARKS
Ex. 14.4 JP	Existing	3888.5	9908.253			1050	247.6	250.131	2.531	Existing Pit
Ex. 14.3 SEP	1350 x 1500	3884.925	9881.592	1050	247.331	1050	247.281	249.732	2.451	1050dia. Outlet Pipe from Pit Ex.14.3 to Ex.14.2 to be Abandoned.
						1050	247.281		2.451	Outlet Pipe Blank off in Pit Ex.14.3 to be Removed to Connect 1050dia. pipe to Pit Ex.14.3.
Ex. 1.11 SEP	900 x 1200	3903.84	9866.898	1050	247	1050	246.95	249.352	2.402	Inlet Pipe Blank off in Pit 1.11 to be Removed to Connect 1050dia. pipe to Pit Ex.1.11
Ex. 1.10 SEP	900 x 1200	3955.478	9859.975	1050	246.33	300	246.28	248.455	2.175	300dia. Outlet Pipe from Pit Ex.1.10 to Ex.1.9 to be Abandoned.
						1050	246.28		2.175	Outlet Pipe Blank off in Pit Ex.1.10 to be Removed to Connect 1050dia. pipe to Pit Ex.1.10.
Ex. 11.1 JP	1350 x 1200	3982.888	9856.341	525	246.53	675	246.05	248.205	2.155	675dia. Outlet Pipe from Pit Ex.11.1 to Ex.1.9 to be Abandoned. 525dia. Inlet Pipe from Pit Ex.11.2 to Remain.
					450		246.05			450dia. Inlet Pipe from Pit Ex.12.1 to Remain.
					1050		245.95		2.305	1050dia. Inlet & 1050dia. Outlet Pipe Blank offs in Pit 11.1 to be Removed to Connect Pipes to Pit.
Ex. 13.1 SEP	900 x 1200	4009.445	9852.739			300	246.335	247.589	1.254	300dia. Outlet Pipe from Pit Ex.13.1 to Ex.12.2 to be Abandoned.
					1050		245.54		2.099	1050dia. Inlet & 1050dia. Outlet Pipe Blank offs in Pit 13.1 to be Removed to Connect Pipes to Pit.
Ex. 17.1A PC	-	4012.418	9852.341	1050	245.45			246.5	1.05	Pipe to Pipe Connection.

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

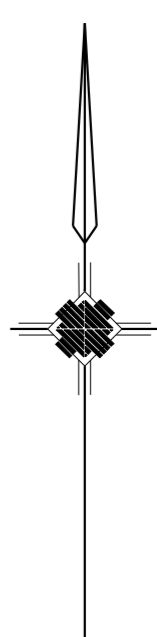
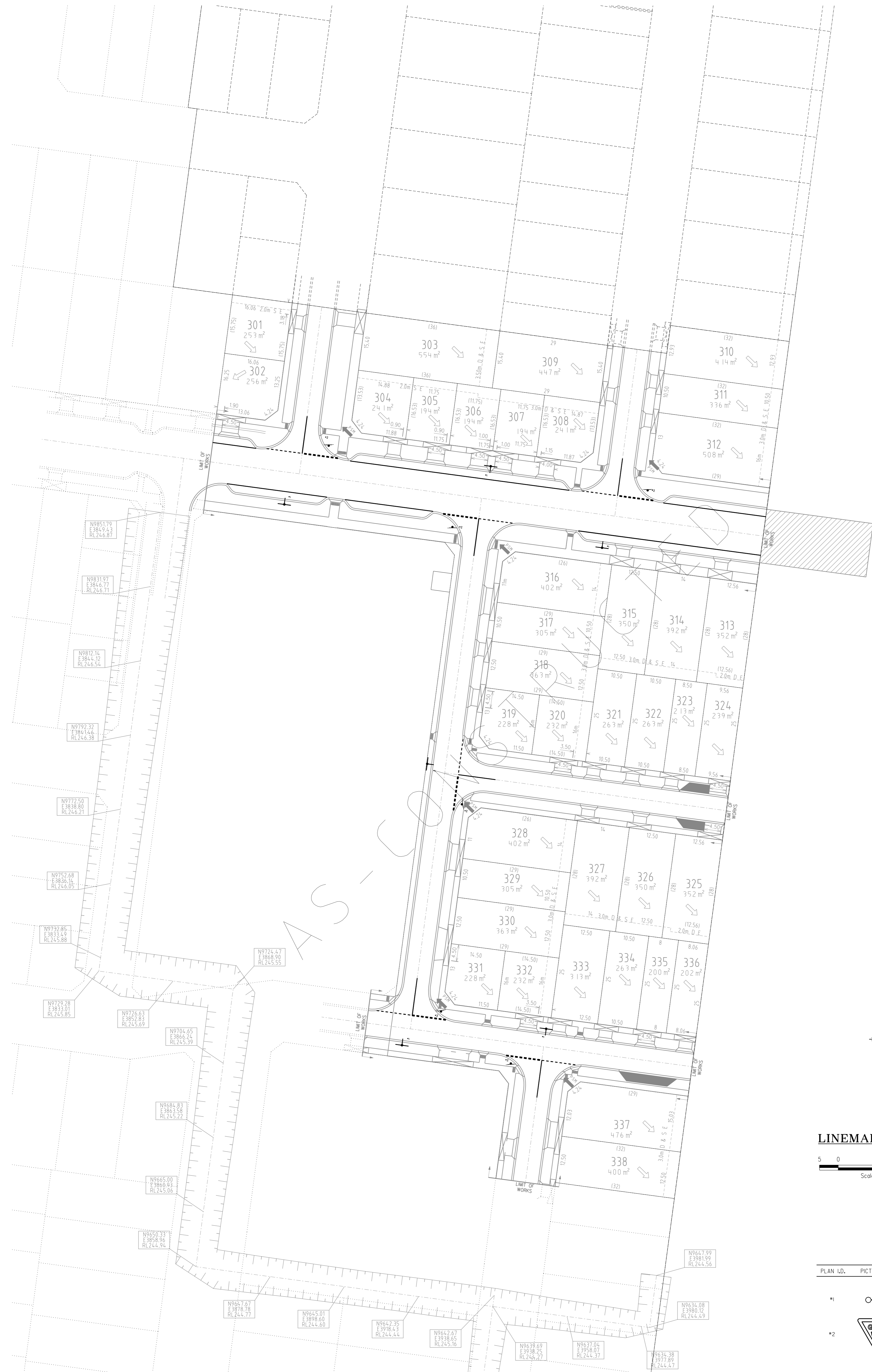
DEPTH TO INVERT	248.070	245.450	246.038	2.620						
H.G.L. LEVELS	245.450	245.450	246.540	2.099						
INVERT LEVELS	247.589	245.490	246.540	2.099						
FINISHED SURFACE LEVELS	248.070	245.450	246.748	2.049						
CHAINAGE (LENGTH)	0.000	3.000	29.800	(28.800)	16.774	57.450	109.550	130.502	157.402	176.900

REVISIONS			SCALE:	AS SHOWN
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06/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DESIGNED:	Z.W.L DATE: AUG 2012
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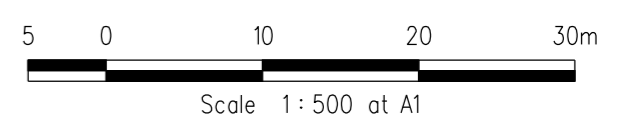
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HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R26B
ULTIMATE DRAINAGE PLAN, LONGITUDINAL SECTION & PIT SCHEDULE		REVISION Q
		SHEET 26B OF 28



LINEMARKING PLAN



PLAN ID.	PICTORIAL	CODE No.
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- *1 STREET SIGN
- *2 R1-2A

REVISIONS			SCALE:	AS SHOWN
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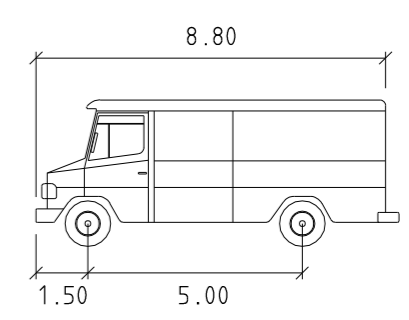
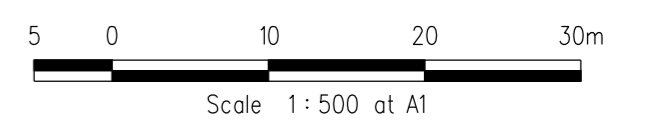
HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R27
LINEMARKING & SIGNAGE PLAN		REVISION Q
		SHEET 27 OF 28

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
 TEMPORARY AG AT END STRIPS
 TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
 PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
 TEMPORARY AG AT END STRIPS
 TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
 PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

CONCRETE EDGE STRIP AND "NO ROAD" SIGN
 TEMPORARY AG AT END STRIPS
 TEMPORARY 150mm DEPTH CLASS 3 CRUSHED ROCK TURNING CIRCLE WITH 10.5m RADIUS FOR TEMPORARY TURNING OF SERVICE VEHICLES
 PROVIDE TEMPORARY POST AND WIRE FENCE AROUND TURNING AREA TO PREVENT ACCESS

TURNING TEMPLATES



SERVICE meters
 Width : 2.50
 Track : 2.50
 Lock to Lock Time : 6.00
 Steering Angle : 38.70

REVISIONS			SCALE: AS SHOWN	
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30/05/13	M SERVICE OFFSET AMENDMENTS	ASC	DRAWN: Z.W.L DATE: AUG 2012	
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			AUTHORISED: A.S.C DATE: AUG 2012	



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HUME CITY COUNCIL
 VILLAWOOD PROPERTIES P/L
 TRILLIUM STAGE 3A
 MICKLEHAM
 ROAD AND DRAINAGE PLANS

PLAN NUMBER

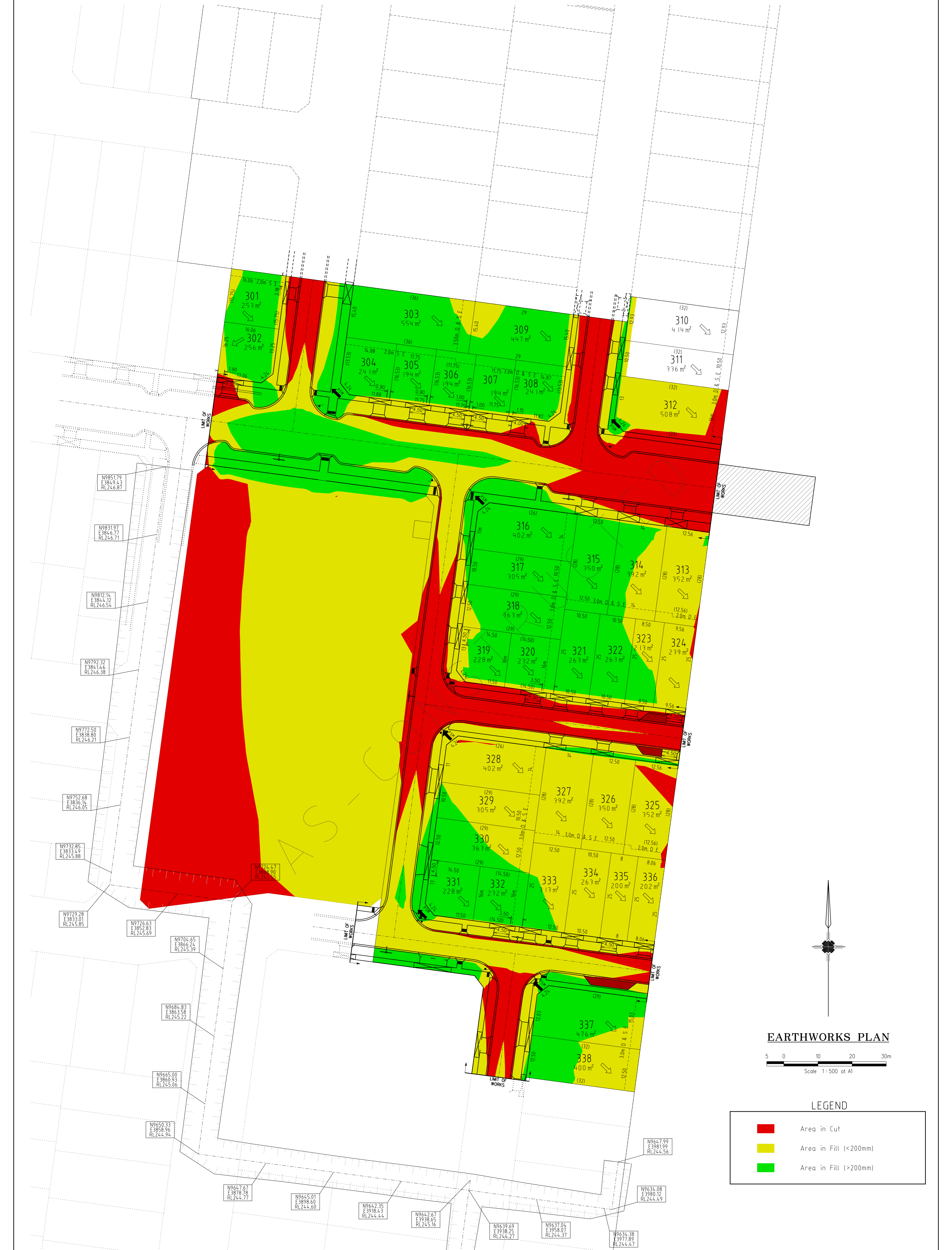
36182/3A
 R27A

TURNING TEMPLATES

REVISION

Q

SHEET 27A OF 28



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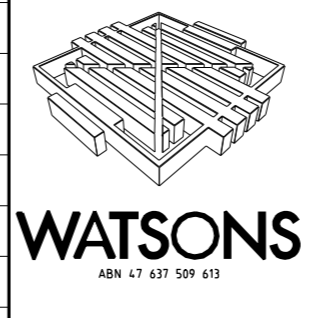
EARTHWORKS PLAN

Scale 1:500 at A1

LEGEND

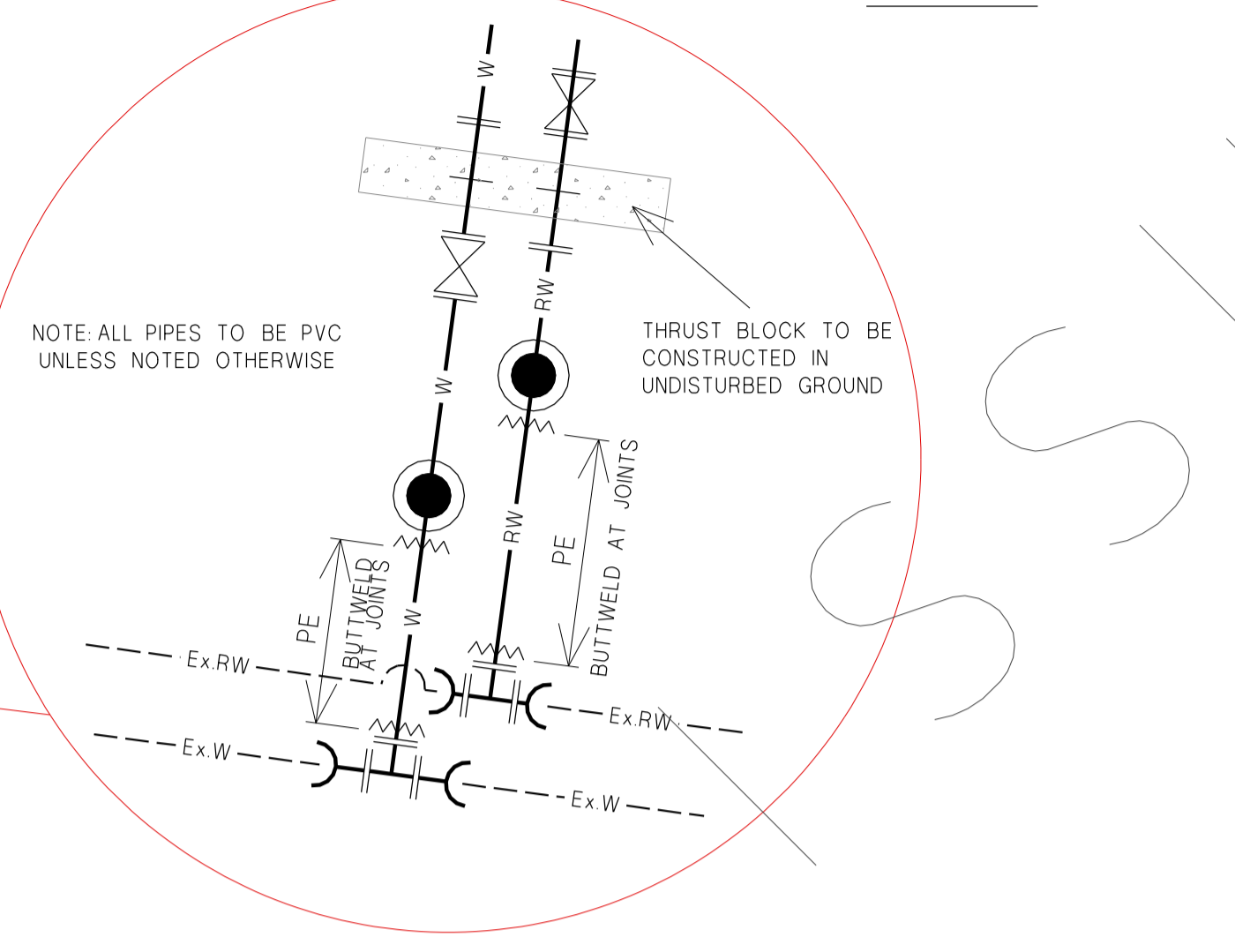
- Area in Cut
- Area in Fill (<200mm)
- Area in Fill (>200mm)

REVISIONS			SCALE: AS SHOWN	
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FILENAME k:\36182\36182 3\dgn\28 dgn			DESIGNED: Z.W.L DATE: AUG 2012	
			AUTHORISED: A.S.C DATE: AUG 2012	



HUME CITY COUNCIL		PLAN NUMBER
VILLAWOOD PROPERTIES P/L TRILLIUM STAGE 3A MICKLEHAM ROAD AND DRAINAGE PLANS		36182/3A R28
EARTHWORKS PLAN		REVISION Q
		SHEET 28 OF 28

DESIGN HEAD
67.8m



GENERAL

- ALL LEVELS (WHERE SHOWN) ARE IN METERS TO AUSTRALIAN HEIGHT DATUM (AHD).
- AGREEMENT WORKS - THESE ARE WORKS DESIGNED, FINANCED AND CONSTRUCTED BY THE LAND OWNER.
- WORKS MUST BE CONSTRUCTED ACCORDING TO WSA 03 -2002 MRWA EDITION SPECIFICATIONS, WSA 03-2002 MRWA DUAL WATER SUPPLY SYSTEMS VERSION 1) AND STANDARD DRAWINGS, TECHNICAL AND CONSTRUCTION REQUIREMENTS. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH ALL CURRENT REVISIONS, AMENDMENTS & UPDATES THAT THE RELEVANT WATER AGENCY HAVE MADE TO THEIR CONSTRUCTION STANDARDS COVER BELOW KERB & CHANNEL INVERT OR FINISHED SURFACE. REFER WAT-1201-V

LOCATION	MINIMUM COVER
WITHIN FOOTWAY	RESIDENTIAL 450 mm
CARRIAGEWAY MINOR/SECONDARY ROADS	600 mm

- MAXIMUM COVER TO TOP OF PIPE MUST NOT EXCEED 150 m FROM KERB AND CHANNEL INVERT/FINISHED SURFACE.
- ALL MAINS TO BE LAID OVER DRAINS UNLESS NOTED OTHERWISE.
- SERVICE SCHEDULE
- ALL NEW SERVICE CONNECTIONS ARE TO BE PE PN12.5 & INSTALLED IN ACCORDANCE WITH WAT-1106-V, WAT1107-V, WAT-1108-V, WAT-1802-V, WAT-1803-V, WAT-1804-V, WAT-1805-V, WAT-1806-V, WAT-1807-V & WAT-1808-V
- ALL NEW AND/OR ALTERED MAINS TO BE CONSTRUCTED UNDER AGREEMENT CONDITIONS IN ACCORDANCE WITH THE WATER COMPANY'S SPECIFICATION DRAWING AT OFFSETS SHOWN.
- SERVICE SCHEDULE

SERVICE OFFSETS
SERVICES OFFSETS FROM BULLETS (1100 UNLESS NOTED OTHERWISE)

STREET NAME	GAS	MULTI-USE	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
TRILLIUM BOULEVARD	2.05 M	2.05 M	3.05 M	3.05 M	2.775 M	1.00 M
CELESTE STREET	2.05 M	2.05 M	3.05 M	2.60 M	1.775 M	Ex. 100 M (CELESTE STREET)
HONEYDEW STREET	2.05 M	2.05 M	3.05 M	2.60 M	1.775 M	1.00 M
SEPAL DRIVE	2.05 M	2.05 M	3.05 M	0.95 M	0.95 M	-
GRAND BOULEVARD	100 M WEST OF TRILLIUM BULLETS 2.05 M WEST OF TRILLIUM BULLETS	100 M WEST OF TRILLIUM BULLETS 2.05 M WEST OF TRILLIUM BULLETS	100 M WEST OF TRILLIUM BULLETS 3.05 M WEST OF TRILLIUM BULLETS	3.05 M	3.00 M	Ex. 100 M

- HYDRANT SCHEDULE (BELOW GROUND). ALL HYDRANT IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1820-V

HYDRANT SCHEDULE

STREET	LOCATION	TYPE
SEPAL DRIVE	LOT 317	Direct
SEPAL DRIVE	LOT 329	Direct
CALYPSO CRESCENT	LOT 338	Direct
GRAND BOULEVARD	LOT 302	Direct
CELESTE STREET	LOT 312	Direct

- TOTAL WORK SCHEDULE

TOTAL WORK					
NEW WORK					
SIZE	TYPE	LENGTH	SIZE	TYPE	LENGTH
40	PE PN12.5	-m	100	PVC SERIES 2 PN16	385m
50	PE PN12.5	-m	150	PVC SERIES 2 PN16	-m
63	PE PN12.5	-m	225	PVC SERIES 2 PN16	15m
			300	PVC SERIES 2 PN16	-m

- THIS PLAN IS TO BE READ IN CONJUNCTION WITH ROAD AND DRAINAGE PLANS.
- ALL WATER MAINS UNDER ROADWAYS TO BE BACKFILLED WITH 20mm CLASS 2 CRUSHED ROCK IN 150mm LAYERS, COMPACTED TO 100% UPPER BACKFILL AND 95% LOWER BACKFILL IN ACCORDANCE WITH WAT-1202-V & WAT-1810-V
- ALL WATER MAINS UNDER FOOTPATHS/VEHICLE CROSSING TO BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK & EXTENDED 500mm EITHER SIDE OF FUTURE PAVING IN 150mm LAYERS COMPACTED TO 95% IN ACCORDANCE WITH WAT-1202-V & WAT-1810-V
- THE CONTRACTOR MUST ENSURE THAT THE EXCAVATED BASE OF THE TRENCH HAS A MINIMUM DRY DENSITY RATIO OF 95% OR A MINIMUM DENSITY INDEX OF 70%
- THE CONTRACTOR IS REQUIRED TO UNDERTAKE TESTING OF FILL COMPACTION AND TESTING IN ACCORDANCE WITH WATER AGENCY TRENCH FILL SPECIFICATION. TESTING OF TRENCH WATER MAINS IS TO BE CARRIED OUT FOR ALL ROAD CROSSING. ONE PER CROSSING. THE CONTRACTOR SHALL ENGAGE AN APPROVED NATA REGISTERED GEOTECHNICAL ENGINEER TO CARRY OUT THESE TESTS AS NECESSARY AND SUBMIT TEST RESULTS.
- THRUST RESTRAINTS TO BE DETERMINED/DESIGNED ON-SITE BY CONTRACTOR (WITH THE SUPERINTENDENT) UPON CONFIRMATION OF THE ACTUAL GROUND CONDITIONS PRIOR TO CONSTRUCTING.
- THRUST RESTRAINTS TO BE DESIGNED IN ACCORDANCE WITH WSA 03 - 2002 STANDARD DRAWING WAT-1205 & WAT-1811-V

CONCRETE THRUST RESTRAINT SCHEDULE

LOCATION	TYPE	FITTING	AREA (m2)	NO.
A	CONCRETE	225 TEE/CAP	1.06	2
B	CONCRETE	100 TEE/CAP	0.24	3

- THE LOCATION AND DIRECTION SWABS IS SHOWN AS \rightleftarrows
- CONNECTION TO EXISTING - NOTIFY THE WATER AGENCY BY FAXING TO THE OFFICE OF CONSULTANT THE "CONNECTION OF LIVE ASSETS" FORM. 5 DAYS PRIOR TO THE WATER MAIN BEING ARRANGED FOR SHUTDOWN.
- SERVICES:

SERVICES

THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES. FOR ASSISTANCE IN LOCATING SERVICES OR IN AN EMERGENCY CONTACT:

SERVICE	CONTACT	TELEPHONE
TENIX (GAS)	KRIS WJCZY'S	(03) 9931 2046
JEMENA (ELECT)	JOHN HEMSLEY	(03) 9351 2214
TELSTRA	PETER FEED	(03) 9634 1076
YVWL	RECEPTION	(03) 9874 2122
MW	RECEPTION	(03) 92352100

- THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE SETOUT. SHOULD ACTUAL SITE CONDITION CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR MUST CONTACT THE OFFICE OF THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
- THE CONTRACTOR IS TO ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED SURVEYOR TO UNDERTAKE ASSET RECORDING OF THE WORK. ALL SURVEYING WORKS AND DATA TO BE SUBMITTED MUST BE IN ACCORDANCE WITH THE WSA 03-2002 CODE MRWA EDITION & THE WITS SURVEY MANUAL.
- TESTING OF WATER MAINS, INCLUDING SWABBING, WATER QUALITY, PRESSURE AND CHLORINATION SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH WSA 03-2002 MRWA EDITION AND WATER AGENCY SPECIFICATIONS. ALL TESTING MUST BE UNDERTAKEN UNDER DIRECT CONSULTANT SUPERVISION. THE CONTRACTOR IS TO GIVE A MINIMUM OF FOURTEEN (14) DAYS NOTICE TO THE OFFICE OF CONSULTANT PRIOR TO THE TESTING BEING UNDERTAKEN. CONTRACTOR IS NOT ALLOWED TO CARRY OUT ANY TESTING OPERATION IN THE ABSENCE OF THE CONSULTANT ON SITE. NONE OF THE VALVES INTO THE WATER AUTHORITY'S SYSTEM SHALL BE OPENED UNTIL THE NEW MAIN HAS PASSED ALL THE TESTS MENTIONED ABOVE AND WRITTEN APPROVAL GIVEN TO THE CONTRACTOR STATING THE WORKS HAVE BEEN SATISFACTORILY COMPLETED.
- CONTRACTOR IS TO DEVIATE AROUND DRAINAGE PITS AND SEWER MAINTENANCE HOLES USING 2 x 45 DEGREE BENDS WHERE NECESSARY.
- ALL MAIN TO METER CONNECTIONS LOCATED WITHIN PROPOSED ROADWAYS, DRIVEWAYS AND FOOTPATHS MUST BE FITTED WITH FERRULES AT THE OFFTAKE FROM THE MAIN AND FITZROY BOXES OVER TO SUIT FINISHED LEVELS.
- ALL HYDRANT IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1820-V
- ALL VALVE IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1821-V
- FOR TYPICAL RECYCLED WATER SURFACE FITTINGS, MARKINGS & COLOUR IDENTIFICATION REFER TO WAT-1825-V
- CUT PIPES

CUT PIPE SCHEDULE

STREET NAME	LOCATION	RADIUS	PIPE LENGTH	JOINT
NAME	LOT	m	m	DOUBLE SOCKET

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

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
OVERHEAD ELECTRICITY

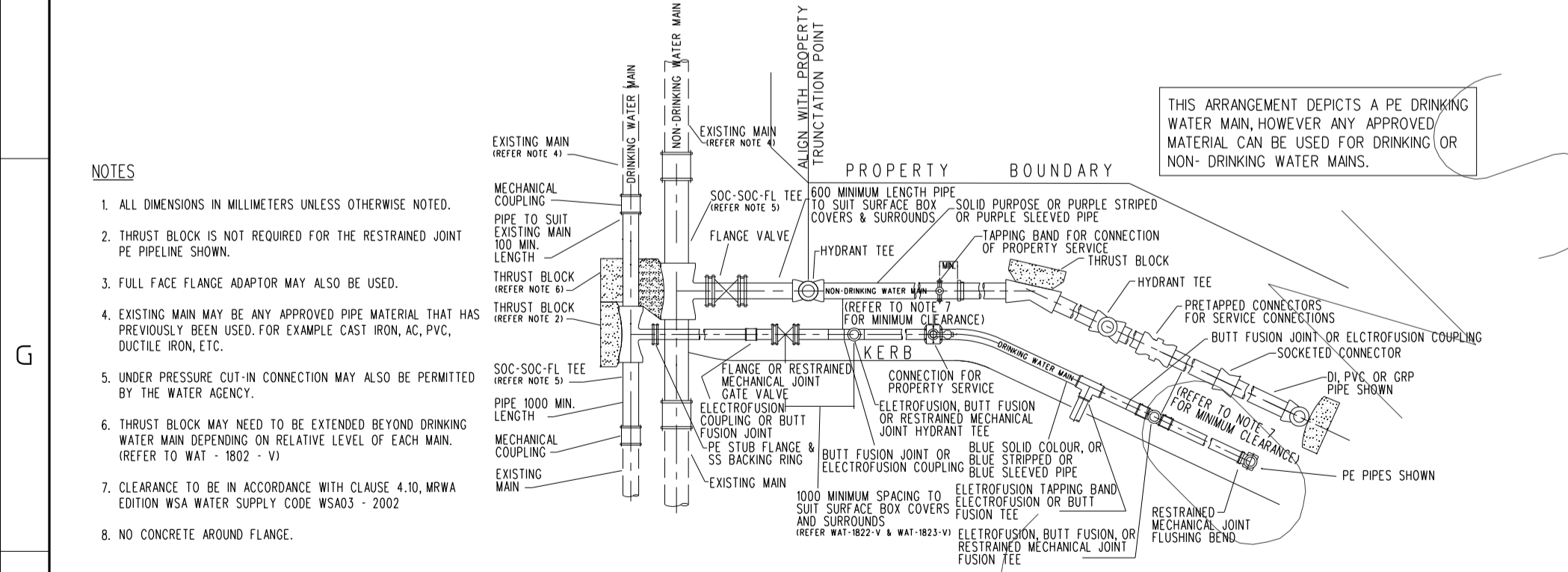
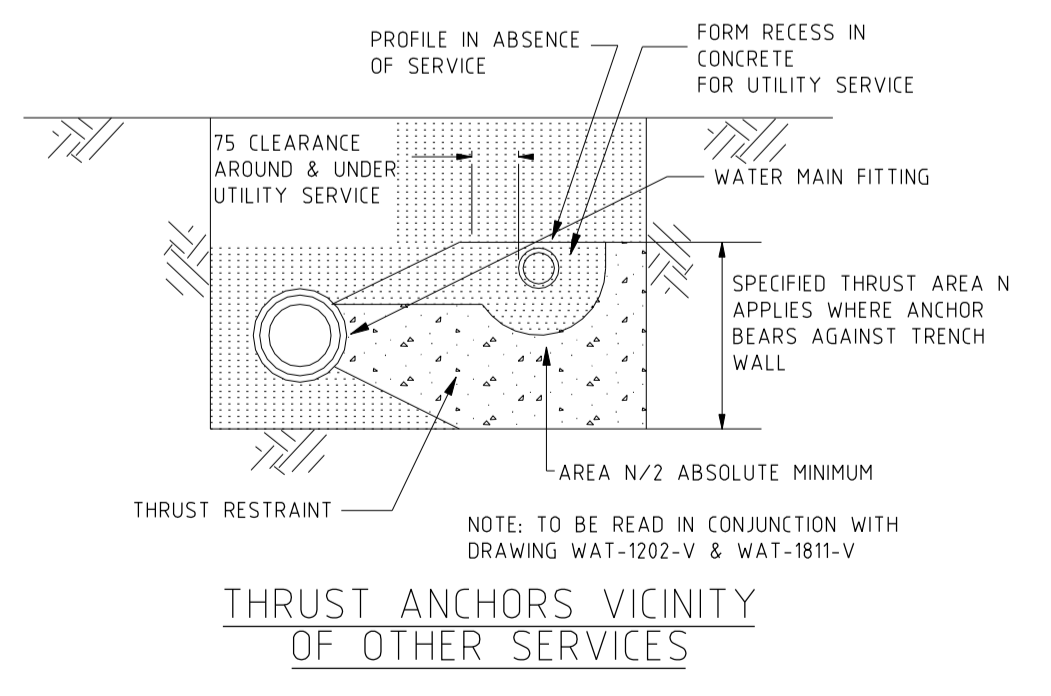
NOTE
POTABLE WATER MAIN

WARNING
BEWARE OF UNDERGROUND SERVICES

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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
OVERHEAD ELECTRICITY



REF.	ZONE	REVISION	DATE	APPD.	SYMBOLS FOR WATER MAIN FITTINGS
F	-	YVW REQUESTED AMENDMENTS	26/7/13	ASC	VALVE
E	-	TAPPINGS ADDED FOR FUTURE LOTS	11/6/13	ASC	TAPER OR REDUCER
D	-	YVW REQUESTED AMENDMENTS	30/5/13	ASC	CAP OR BLANK END
C	-	YVW REQUESTED AMENDMENTS	29/5/13	ASC	FIRE PLUG FULL COST COUNCIL
B	-	YVW REQUESTED AMENDMENTS	29/5/13	ASC	FIRE PLUG HALF COST COUNCIL
A	-	PROPERTY SERVICE AMENDMENTS	10/4/13	ASC	FIRE PLUG S.E.W.COST
					WASHOUT ASSEMBLY
					CHLORINATION INSTALLATION

DESIGNED	Z.W.L.	WATSONS REFERENCE	36182/3A
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED BY	A.S.C.	YARRA VALLEY WATER REFERENCE	3-302564

WATSONS
ABN 47 637 509 613

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Fax (03) 9697 8099

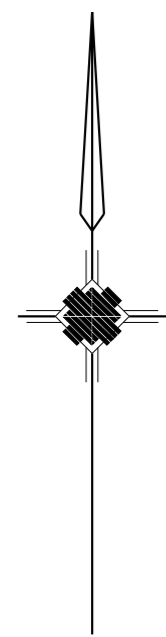
YARRA VALLEY WATER
ACN 066 902 501

RECYCLED WATER MAIN PLAN
TRILLIUM
STAGE 3A
535 MOUNT RIDLEY ROAD, MICKLEHAM
HUME CITY COUNCIL

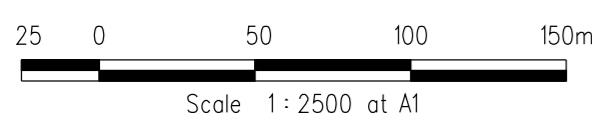
SCALE 1:1000 at A1

SHEET 1 of 1

DRAWING No. 3-302564 RW1



LOCALITY PLAN



ACCESS CHAMBER SETOUT

ACCESS CHAMBER	EASTING	NORTHING	COVER LEVEL
Ex.WAT1-12	3965.600	9812.155	248.240
WAT13-IMS	3996.821	9807.969	247.697
Ex.WAT1-10	3956.431	9743.767	247.217
WAT14-IMS	3984.678	9739.980	246.816
Ex.WAT1-17	3883.453	9891.306	249.931
WAT21-IMS	3882.751	9886.070	249.867
Ex.WAT1-11	3961.879	9784.404	247.532
WAT22-IMS	3946.517	9786.463	247.688
Ex.WAT1-9	3952.710	9716.016	246.897
WAT23-IMS	3937.348	9718.075	247.066

NOTE:

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

EXISTING ACCESS CHAMBER COVER LEVEL ADJUSTMENTS

Manhole	Easting	Northing	Cover Level (Design Stage 3A)	Cover Level (As-Built Stage 1)	Cover Level Adjustment
Ex.WAT1-18	3885.508	9906.636	250.183	250.170	0.013
Ex.WAT1-17	3883.453	9891.306	249.931	249.870	0.061
Ex.WAT1-16	3936.478	9884.197	249.523	249.610	-0.087
Ex.WAT1-15	3967.699	9880.011	248.896	248.870	0.026
Ex.WAT1-14	3965.502	9863.625	248.692	248.590	0.102
Ex.WAT1-13	3969.188	9838.916	248.410	248.200	0.210
Ex.WAT1-12	3965.600	9812.155	248.240	248.000	0.240
Ex.WAT1-11	3961.879	9784.404	247.532	247.480	0.052
Ex.WAT1-10	3956.431	9743.767	247.217	247.120	0.097
Ex.WAT1-9	3952.710	9716.016	246.897	246.720	0.177
Ex.WAT1-8	3991.427	9710.825	246.471	246.380	0.091
Ex.WAT1-7	3984.513	9659.256	245.938	246.050	-0.112
Ex.WAT7-1	4011.094	9857.512	247.822	248.170	-0.348

NOTES:

1. All levels are in metres to Australian Height Datum (AHD).
2. Coordinates for setting out are to Map Grid of Australia (MGA).
3. No properties sewer.
4. Length of sewers to be constructed 150mm dia PVC - 96m
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.

Pipeline Material	Diameter	Pipe Type	Pipe Class	Australian Standard
225mm	PVC	SN8	AS/NZS 1260-2002	150mm
				100mm
150mm	PVC	SN8	AS/NZS 1260-2002	100mm
				75mm

8. Pipe jointing shall be made with solvent cement for PVC pipes (375mm dia, 300mm dia, 225mm dia, 150mm dia) to comply with AS/NZS3879 and butt fusion and electro fusion for PE pipe (450mm dia and 355mm dia).
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.
10. PROPERTY BRANCH SEWERS:
10. All branches to be 100mm dia PVC pipes.
11. Properties shown as thus require boundary traps. The remainder do not require boundary traps.
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.
15. MAINTENANCE HOLES AND SHAFTS:
15. Refer to Standard Drawings as per WSA 02-2002 MRWA Edition.
16. All Maintenance Holes shall be 1050mm nominal diameter unless noted otherwise.
17. Cranked design galvanised steel step irons to be used in maintenance holes.
18. Covers in roadways to be Class D, all other covers shall be circular Class B Covers and frames to be greased upon installation.
19. 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.
20. WSA 02-2002 MRWA Edition W265 grade concrete - GP Type cement must be used in all construction.
21. EARTHWORKS:
21. 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 F2C" support and "Type A" 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 F2C" support and "Type A" backfill shall be placed around sewers.

OUTLET:

22. 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.

23. All new service connections must be in accordance with the requirements of WSA 02-2002 MRWA Edition.

WORK ON LIVE SEWERS:

24. 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.
25. 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.
26. A Yarra Valley Water authorised contractor to connect the proposed 300mm dia branch in maintenance hole at owners cost. Seven (7) clear days notice prior to commencement of works must be given to the superintendent.
27. A Yarra Valley Water authorised contractor to plug the proposed sewerage system from this sewerage extension. Plug to remain in place until testing and commissioning of this sewerage extension is complete. A Yarra Valley Water authorised contractor to remove plugs after commissioning of this sewer extension has been completed.
28. Contractor to supply plugs required by Yarra Valley Water authorised contractor for plugging.

TESTING:

29. 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:

30. 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.
32. 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.
33. Chainages shown on detail plan are discontinuous. Chainages shown on longitudinal sections are continuous.
34. Principal contractor is responsible for setting out lines and levels for all sewers including works on live sewers.
35. Principal contractor to determine the finished surface level and slope for all maintenance holes and shafts.
36. Backfilling and compaction of trenches to be in accordance with Yarra Valley Water's requirements specification for developer works and backfill specification 04-03.
37. Contractor to engage an independent soil testing authority with NATA accreditation to undertake testing of fill compaction and density testing in accordance with AS1289.
38. Contractor must obtain written permission from Yarra Valley Water for accessing water from fire hydrants for construction purposes. An application form for drawing water is available from Technical Services, Yarra Valley Water on telephone 9562 3000.
39. 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.

WATSONS REF. 36182/3
WATSONS PLAN 36182_3A 5
PLOTTED: 5/04/2015

SYMBOLS AND GENERAL NOTES

- EX. SEW. 225mm DIAM & UNDER
- EX. SEW. 300mm DIAM & OVER
- PROP. SEW. 225mm DIAM & UNDER
- PROP. SEW. 300mm DIAM & OVER
- IS/TMS/MS
- E.P. END OF PIPE
- ACCESS CHAMBER CIRCULAR
- ACCESS CHAMBER GAS CHECK
- ACCESS CHAMBER FLAT TOP
- D DROP IN ACCESS CHAMBER
- L LADDER IN ACCESS CHAMBER
- Lg LANDING IN ACCESS CHAMBER
- SqJ SQUARE JUNCTION
- Ob OBLIQUE JUNCTION
- W — WATER MAINS
- G — GAS MAINS
- E — ELECT. CABLES
- T — TPHONE CABLES

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	3-302564

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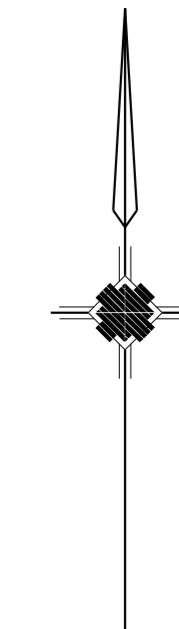
YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 3-302564
TRILLIUM MICKLEHAM STAGE 3A
LOCALITY PLAN

SCALE AS SHOWN
SHEET 1 OF 4
DRAWING No.
3-302564 / S1

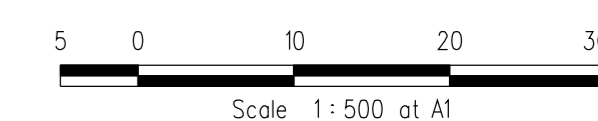
NOTE

THE FOLLOWING ACCESS CHAMBERS REQUIRE COVER LEVEL ADJUSTMENTS, PLEASE REFER TO SHEET 1 FOR COVER LEVELS:

- Ex.WAT1-18
- Ex.WAT1-17
- Ex.WAT1-16
- Ex.WAT1-15
- Ex.WAT1-14
- Ex.WAT1-13
- Ex.WAT1-12
- Ex.WAT1-11
- Ex.WAT1-10
- Ex.WAT1-9
- Ex.WAT1-8
- Ex.WAT1-7MS
- Ex.WAT7-1



DETAIL PLAN



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

WATSONS REF. 36182/3
WATSONS PLAN 36182_3A 5
PLOTTED: 30/04/2024

SYMBOLS AND GENERAL NOTES

- EX. SEW 225mm DIAM & UNDER
- EX. SEW 300mm DIAM & OVER
- PROP. SEW 225mm DIAM & UNDER
- PROP. SEW 300mm DIAM & OVER
- IS/TMS/MS
- E.P. END OF PIPE
- ACCESS CHAMBER CIRCULAR
- ACCESS CHAMBER GAS CHECK
- ACCESS CHAMBER FLAT TOP
- D DROP IN ACCESS CHAMBER
- L LADDER IN ACCESS CHAMBER
- Lg LANDING IN ACCESS CHAMBER
- SqJ SQUARE JUNCTION
- Ob OBLIQUE JUNCTION
- W WATER MAINS
- G GAS MAINS
- E ELECT. CABLES
- T TPHONE CABLES

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	3-302564

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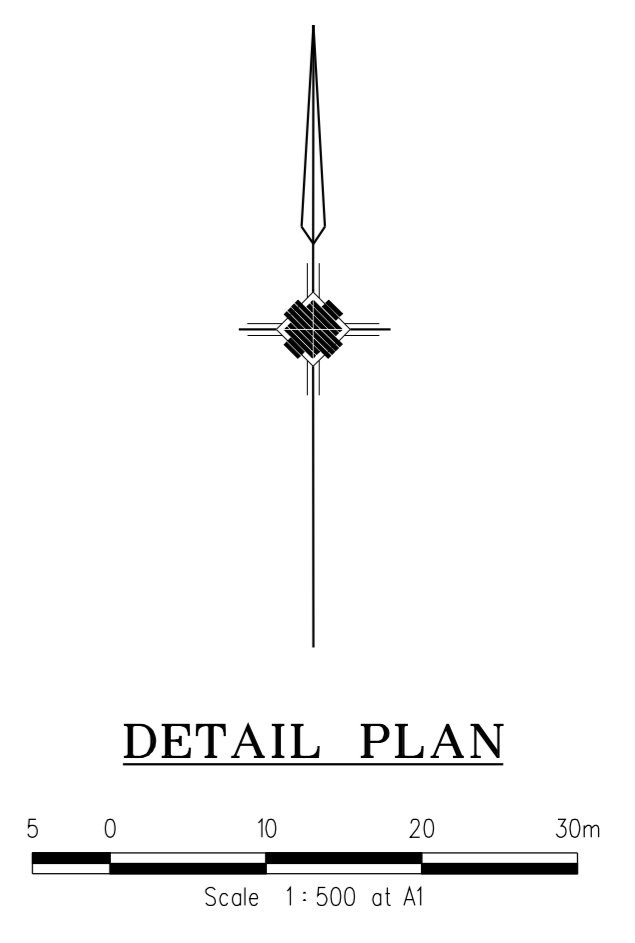
YARRA VALLEY WATER
HUME CITY COUNCIL
SEWER RETIC. EXTN. No. 3-302564
TRILLIUM MICKLEHAM STAGE 3A
DETAIL PLAN

SCALE AS SHOWN
SHEET 2 OF 4
DRAWING No.
3-302564 / S2

REF.	ZONE	REVISION	DATE	APPD.
1				
2				
3				



NOTE
 THE FOLLOWING ACCESS CHAMBERS REQUIRE COVER LEVEL ADJUSTMENTS, PLEASE REFER TO SHEET 1 FOR COVER LEVELS:
 Ex.WAT1-18
 Ex.WAT1-17
 Ex.WAT1-16
 Ex.WAT1-15
 Ex.WAT1-14
 Ex.WAT1-13
 Ex.WAT1-12
 Ex.WAT1-11
 Ex.WAT1-10
 Ex.WAT1-9
 Ex.WAT1-8
 Ex.WAT1-7MS
 Ex.WAT7-1



DETAIL PLAN

WARNING
 OVERHEAD ELECTRICITY

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 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).

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WATSONS REF. 36182/3
 WATSONS PLAN 36182_3A 5
 PLOTTED: 30/04/20

REF.	ZONE	REVISION	DATE	APPD.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

SYMBOLS AND GENERAL NOTES

— EX. SEW 225mm DIAM & UNDER	● ACCESS CHAMBER CIRCULAR	SqJ SQUARE JUNCTION
— EX. SEW 300mm DIAM & OVER	● ACCESS CHAMBER GAS CHECK	Ob OBLIQUE JUNCTION
— PROP. SEW 225mm DIAM & UNDER	F ACCESS CHAMBER FLAT TOP	— W WATER MAINS
— PROP. SEW 300mm DIAM & OVER	D DROP IN ACCESS CHAMBER	— G GAS MAINS
■ IS/TMS/MS	L LADDER IN ACCESS CHAMBER	— E ELECT. CABLES
— E.P. END OF PIPE	Lg LANDING IN ACCESS CHAMBER	— T TPHONE CABLES

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	3-302564

WATSONS
 CIVIL ENGINEERS - PROJECT MANAGERS - SURVEYORS
 TOWN PLANNERS - URBAN DESIGNERS

MORNINGTON
 5 Main Street
 P.O. Box 11 3931
 Phone (03) 5975 4444
 Fax (03) 5975 3916
 DX 9318 Mornington

MELBOURNE
 Level 2, 470 St. Kilda Road
 P.O. Box 1223
 Melbourne, 3006
 Phone (03) 9820 8644
 Fax (03) 9820 3574

YARRA VALLEY WATER
 HUME CITY COUNCIL
 SEWER RETIC. EXTN. No. 3-302564
 TRILLIUM MICKLEHAM STAGE 3A
 DETAIL PLAN

SCALE AS SHOWN

SHEET 3 OF 4

DRAWING No.
3-302564 / S3

1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

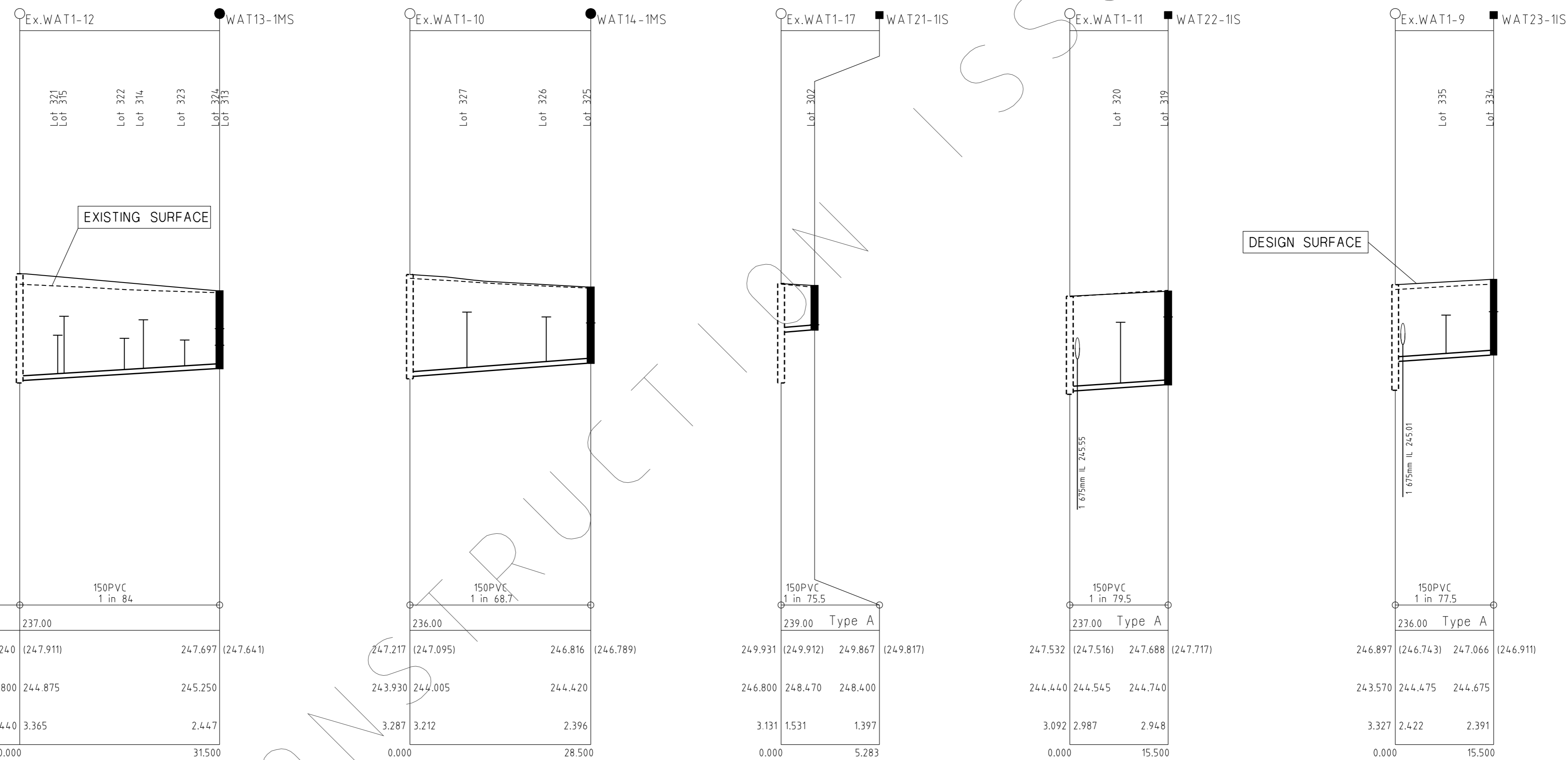
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E

F

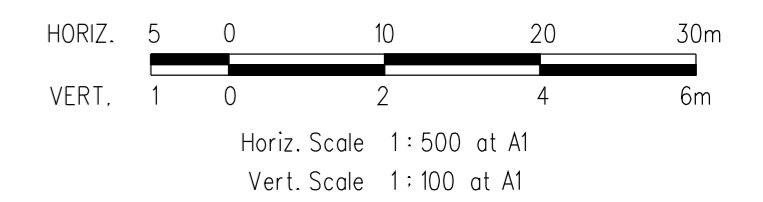
G

H



DIAMETER & GRADE	150PVC 1 in 84		150PVC 1 in 68.7		150PVC 1 in 75.5		150PVC 1 in 79.5		150PVC 1 in 77.5	
DATUM R.L. (m)	237.00		236.00		239.00 Type A		237.00 Type A		236.00 Type A	
SURFACE LEVEL	248.240 (247.911)	247.697 (247.641)	247.217 (247.095)	246.816 (246.789)	249.931 (249.912)	249.867 (249.817)	247.532 (247.516)	247.688 (247.717)	246.897 (246.743)	247.066 (246.911)
INVERT LEVELS	244.800	244.875	243.930	244.005	246.800	248.470	248.400	244.440	244.545	244.740
DEPTH TO INVERT	3.440	3.365	3.287	3.212	3.131	1.531	1.397	3.092	2.987	2.948
CHAINAGE	0.000 31.500		0.000 28.500		0.000 5.283		0.000 15.500		0.000 15.500	

LONGITUDINAL SECTION



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

SYMBOLS AND GENERAL NOTES

- EX. SEW 225mm DIAM & UNDER
- === EX. SEW 300mm DIAM & OVER
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- IS/TMS/MS
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- D DROP IN ACCESS CHAMBER
- L LADDER IN ACCESS CHAMBER
- Lg LANDING IN ACCESS CHAMBER
- SqJ SQUARE JUNCTION
- Ob OBLIQUE JUNCTION
- W — WATER MAINS
- G — GAS MAINS
- E — ELECT. CABLES
- T — TPHONE CABLES

DESIGNED	Z.W.L.	PLAN REFERENCE	36182/3
CHECKED	A.S.C.	MELWAY REFERENCE	366C12
AUTHORISED	A.S.C.	YARRA VALLEY WATER OFFER FILE No.	3-302564

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TRILLIUM MICKLEHAM STAGE 3A
LONGITUDINAL SECTIONS

SCALE AS SHOWN
SHEET 4 OF 4
DRAWING No.
3-302564 / S4

WATSONS REF. 36182/3
WATSONS PLAN 36182_3A 5
PLOTTED: 5/04/05

1 2 3 4 5 6 7 8 9 10 11 12

DESIGN HEAD
67.8m



- GENERAL
- ALL LEVELS (WHERE SHOWN) ARE IN METERS TO AUSTRALIAN HEIGHT DATUM (AHD).
 - AGREEMENT WORKS - THESE ARE WORKS DESIGNED, FINANCED AND CONSTRUCTED BY THE LAND OWNER.
 - WORKS MUST BE CONSTRUCTED ACCORDING TO WSA 03 -2002 MRWA EDITION SPECIFICATIONS, WSA 03-2002 MRWA DUAL WATER SUPPLY SYSTEMS VERSION 1) AND STANDARD DRAWINGS, TECHNICAL AND CONSTRUCTION REQUIREMENTS. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONSISTENT WITH ALL CURRENT REVISIONS, AMENDMENTS & UPDATES THAT THE RELEVANT WATER AGENCY HAVE MADE TO THEIR CONSTRUCTION STANDARDS COVER BELOW KERB & CHANNEL INVERT OR FINISHED SURFACE. REFER WAT-1201-V

LOCATION	MINIMUM COVER
WITHIN FOOTWAY	RESIDENTIAL 450 mm
CARRIAGEWAY MINOR/SECONDARY ROADS	600 mm

- MAXIMUM COVER TO TOP OF PIPE MUST NOT EXCEED 150m FROM KERB AND CHANNEL INVERT/ FINISHED SURFACE.
- ALL MAINS TO BE LAID OVER DRAINS UNLESS NOTED OTHERWISE.
- SERVICE SCHEDULE
- ALL NEW SERVICE CONNECTIONS ARE TO BE PE PN12.5 & INSTALLED IN ACCORDANCE WITH WAT-1106-V, WAT1107-V, WAT-1108-V, WAT-1802-V, WAT-1803-V, WAT-1804-V, WAT-1805-V, WAT-1806-V, WAT-1807-V & WAT-1808-V
- ALL NEW AND/OR ALTERED MAINS TO BE CONSTRUCTED UNDER AGREEMENT CONDITIONS IN ACCORDANCE WITH THE WATER COMPANY'S SPECIFICATION DRAWING AT OFFSETS SHOWN.
- SERVICE SCHEDULE

SERVICE OFFSETS

STREET NAME	GAS	WATER	ELECTRICITY	OPTIC FIBRE	SEWER
YELLAM BOULEVARD	2.25 M	2.25 M	3.05 M	3.05 M	2.775 M
CELESTE STREET	2.25 M	2.25 M	3.05 M	3.05 M	2.775 M
HONEYDEW STREET	2.25 M	2.25 M	3.05 M	3.05 M	2.775 M
SEPAL DRIVE	2.25 M	2.25 M	3.05 M	3.05 M	2.775 M
GRAND BOULEVARD	2.25 M	2.25 M	3.05 M	3.05 M	2.775 M

- HYDRANT SCHEDULE (BELOW GROUND). ALL HYDRANT IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1820-V

HYDRANT SCHEDULE

STREET	LOCATION	TYPE
SEPAL DRIVE	LOT 317	Direct
SEPAL DRIVE	LOT 329	Direct
CALYPSO CRESCENT	LOT 338	Direct
GRAND BOULEVARD	LOT 302	Direct
CELESTE STREET	LOT 312	Direct

- TOTAL WORK SCHEDULE

TOTAL WORK					
NEW WORK					
SIZE	TYPE	LENGTH	SIZE	TYPE	LENGTH
40	PE PN12.5	-m	100	PVC SERIES 2 PN16	386m
50	PE PN12.5	-m	150	PVC SERIES 2 PN16	-m
63	PE PN12.5	-m	225	PVC SERIES 2 PN16	15m
			300	PVC SERIES 2 PN16	-m

- THIS PLAN IS TO BE READ IN CONJUNCTION WITH ROAD AND DRAINAGE PLANS.
- ALL WATER MAINS UNDER ROADWAYS TO BE BACKFILLED WITH 20mm CLASS 2 CRUSHED ROCK IN 150mm LAYERS COMPACTED TO 100% UPPER BACKFILL AND 95% LOWER BACKFILL IN ACCORDANCE WITH WAT-1202-V & WAT-1810-V
- ALL WATER MAINS UNDER FOOTPATHS/VEHICLE CROSSING TO BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK & EXTENDED 500mm EITHER SIDE OF FUTURE PAVING IN 150mm LAYERS COMPACTED TO 95% IN ACCORDANCE WITH WAT-1202-V & WAT-1810-V
- THE CONTRACTOR MUST ENSURE THAT THE EXCAVATED BASE OF THE TRENCH HAS A MINIMUM DRY DENSITY RATIO OF 95% OR A MINIMUM DENSITY INDEX OF 70%
- THE CONTRACTOR IS REQUIRED TO UNDERTAKE TESTING OF FILL COMPACTION AND TESTING OF WATER MAINS IS TO BE CARRIED OUT FOR ALL ROAD CROSSING. ONE PER CROSSING. THE CONTRACTOR SHALL ENGAGE AN APPROVED NATA REGISTERED GEOTECHNICAL ENGINEER TO CARRY OUT THESE TESTS AS NECESSARY AND SUBMIT TEST RESULTS.
- THRUST RESTRAINTS TO BE DETERMINED/DESIGNED ON-SITE BY CONTRACTOR (WITH THE SUPERINTENDENT) UPON CONFIRMATION OF THE ACTUAL GROUND CONDITIONS PRIOR TO CONSTRUCTING.
- THRUST RESTRAINTS TO BE DESIGNED IN ACCORDANCE WITH WSA 03 - 2002 STANDARD DRAWING WAT-1205 & WAT-1811-V

CONCRETE THRUST RESTRAINT SCHEDULE				
LOCATION	TYPE	FITTING	AREA (m2)	NO.
A	CONCRETE	225 TEE/CAP	1.06	1
B	CONCRETE	100 TEE/CAP	0.24	3

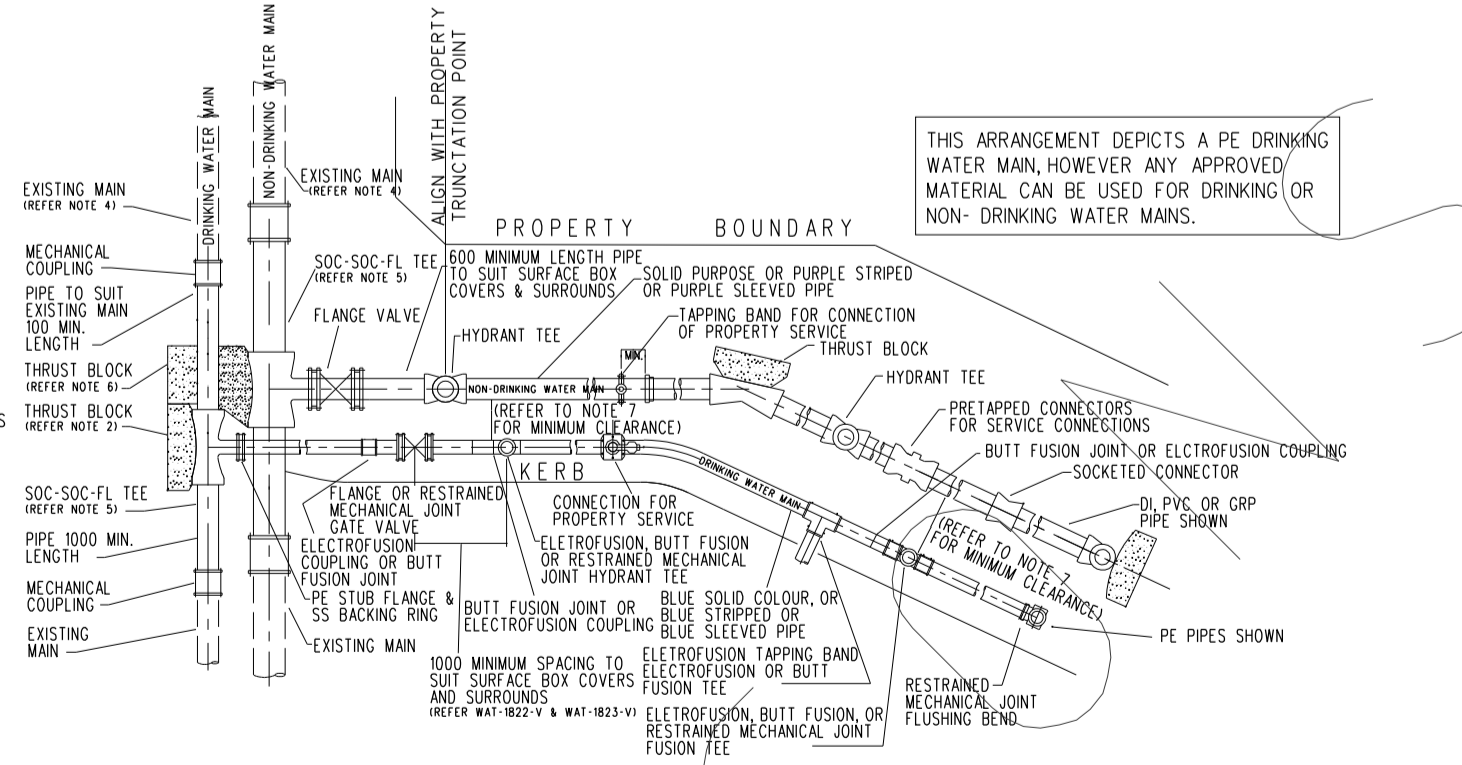
- THE LOCATION AND DIRECTION SWABS IS SHOWN AS \rightleftarrows
- CONNECTION TO EXISTING - NOTIFY THE WATER AGENCY BY FAXING TO THE OFFICE OF CONSULTANT THE "CONNECTION OF LIVE ASSETS" FORM. 5 DAYS PRIOR TO THE WATER MAIN BEING ARRANGED FOR SHUTDOWN.
- SERVICES:

SERVICES			
THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES. FOR ASSISTANCE IN LOCATING SERVICES OR IN AN EMERGENCY CONTACT:			
SERVICE	CONTACT	TELEPHONE	
TENIX (GAS)	KRIS WJCZY'S	(03) 9931 2046	
JEMENA (ELECT)	JOHN HEMSLEY	(03) 9351 2214	
TELSTRA	PETER FEBD	(03) 9634 1076	
YVWL	RECEPTION	(03) 9874 2122	
MW	RECEPTION	(03) 92352100	

- THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE SETOUT. SHOULD ACTUAL SITE CONDITION CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR MUST CONTACT THE OFFICE OF THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
- THE CONTRACTOR IS TO ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED SURVEYOR TO UNDERTAKE ASSET RECORDING OF THE WORK. ALL SURVEYING WORKS AND DATA TO BE SUBMITTED MUST BE IN ACCORDANCE WITH THE WSA 03-2002 CODE MRWA EDITION & THE WITS SURVEY MANUAL.
- TESTING OF WATER MAINS, INCLUDING SWABBING, WATER QUALITY, PRESSURE AND CHLORINATION SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH WSA 03-2002 MRWA EDITION AND WATER AGENCY SPECIFICATIONS. ALL TESTING MUST BE UNDERTAKEN UNDER DIRECT CONSULTANT SUPERVISION. THE CONTRACTOR IS TO GIVE A MINIMUM OF FOURTEEN (14) DAYS NOTICE TO THE OFFICE OF CONSULTANT PRIOR TO THE TESTING BEING UNDERTAKEN. CONTRACTOR IS NOT ALLOWED TO CARRY OUT ANY TESTING OPERATION IN THE ABSENCE OF THE CONSULTANT ON SITE. NONE OF THE VALVES INTO THE WATER AUTHORITY'S SYSTEM SHALL BE OPENED UNTIL THE NEW MAIN HAS PASSED ALL THE TESTS MENTIONED ABOVE AND WRITTEN APPROVAL GIVEN TO THE CONTRACTOR STATING THE WORKS HAVE BEEN SATISFACTORILY COMPLETED.
- CONTRACTOR IS TO DEVIATE AROUND DRAINAGE PITS AND SEWER MAINTENANCE HOLES USING 2 x 45 DEGREE BENDS WHERE NECESSARY.
- ALL MAIN TO METER CONNECTIONS LOCATED WITHIN PROPOSED ROADWAYS, DRIVEWAYS AND FOOTPATHS MUST BE FITTED WITH FERRULES AT THE OFFTAKE FROM THE MAIN AND FITZROY BOXES OVER TO SUIT FINISHED LEVELS.
- ALL HYDRANT IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1820-V
- ALL VALVE IDENTIFICATION, IDENTIFICATION MARKERS & MARKER POSTS TO BE INSTALLED AS PER WAT-1821-V
- FOR TYPICAL RECYCLED WATER SURFACE FITTINGS, MARKINGS & COLOUR IDENTIFICATION REFER TO WAT-1825-V
- CUT PIPES

CUT PIPE SCHEDULE				
STREET NAME	LOCATION	RADIUS	PIPE LENGTH	JOINT
NAME	LOT	m	m	DOUBLE SOCKET

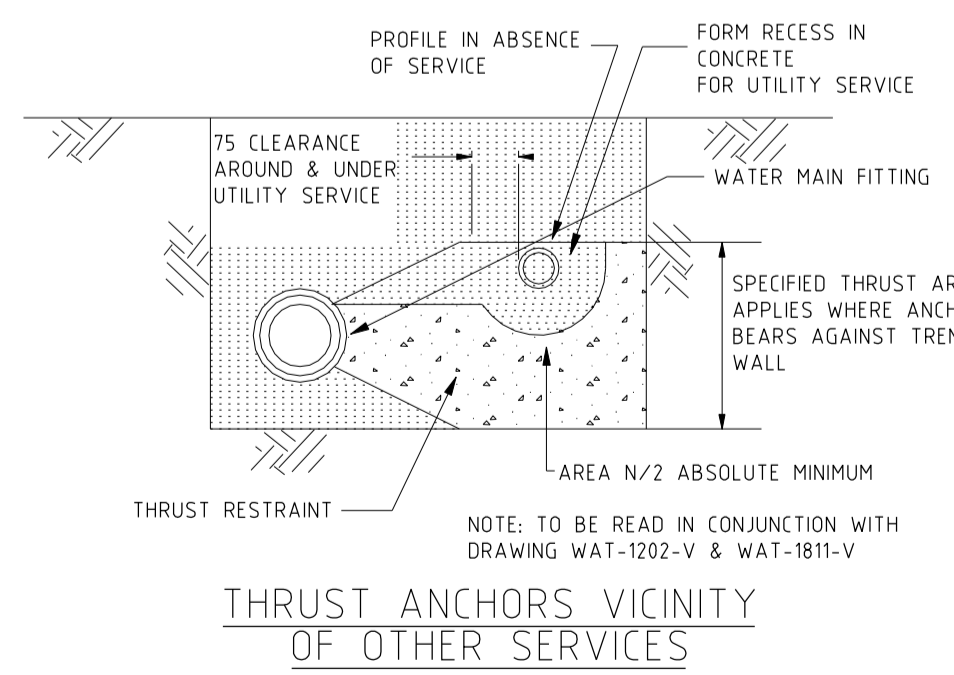
- NOTES
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - THRUST BLOCK IS NOT REQUIRED FOR THE RESTRAINED JOINT PE PIPELINE SHOWN.
 - FULL FACE FLANGE ADAPTOR MAY ALSO BE USED.
 - EXISTING MAIN MAY BE ANY APPROVED PIPE MATERIAL THAT HAS PREVIOUSLY BEEN USED. FOR EXAMPLE CAST IRON, AC, PVC, DUCTILE IRON, ETC.
 - UNDER PRESSURE CUT-IN CONNECTION MAY ALSO BE PERMITTED BY THE WATER AGENCY.
 - THRUST BLOCK MAY NEED TO BE EXTENDED BEYOND DRINKING WATER MAIN DEPENDING ON RELATIVE LEVEL OF EACH MAIN. (REFER TO WAT - 1802 - V)
 - CLEARANCE TO BE IN ACCORDANCE WITH CLAUSE 4.10, MRWA EDITION WSA WATER SUPPLY CODE WS403 - 2002
 - NO CONCRETE AROUND FLANGE.



NOTE
POTABLE WATER MAIN

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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.



THRUST ANCHORS VICINITY OF OTHER SERVICES

NOTE: TO BE READ IN CONJUNCTION WITH DRAWING WAT-1202-V & WAT-1811-V

REF.	ZONE	REVISION	DATE	APPD.	SYMBOLS FOR WATER MAIN FITTINGS	DESIGNED	CHECKED	AUTHORISED BY	REFERENCE	PROJECT NO.	DATE	PROJECT NAME	SCALE
F	-	YVW REQUESTED AMENDMENTS	26/7/13	ASC	VALVE	Z.W.L.			WATSONS REFERENCE	36182/3A		YARRA VALLEY WATER	SCALE 1:1000 at A1
E	-	TAPPINGS ADDED FOR FUTURE LOTS	11/6/13	ASC	TAPER OR REDUCER	A.S.C.			MELWAY REFERENCE	366C12		POTABLE WATER MAIN PLAN	SHEET 1 of 1
D	-	YVW REQUESTED AMENDMENTS	30/5/13	ASC	CAP OR BLANK END				YARRA VALLEY WATER REFERENCE	3-302564		TRILLIUM	DRAWING No.
C	-	YVW REQUESTED AMENDMENTS	29/5/13	ASC	FIRE PLUG FULL COST COUNCIL							STAGE 3A	3-302564
B	-	YVW REQUESTED AMENDMENTS	29/5/13	ASC	FIRE PLUG HALF COST COUNCIL							W01	W01
A	-	YVW REQUESTED AMENDMENTS	29/5/13	ASC	FIRE PLUG S.E.W. COST							535 MOUNT RIDLEY ROAD, MICKLEHAM	
		PROPERTY SERVICE AMENDMENTS	10/4/13	ASC	WASHOUT ASSEMBLY							HUME CITY COUNCIL	
		CHLORINATION INSTALLATION			CHLORINATION INSTALLATION								

WATSONS
ABN 47 637 509 613

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