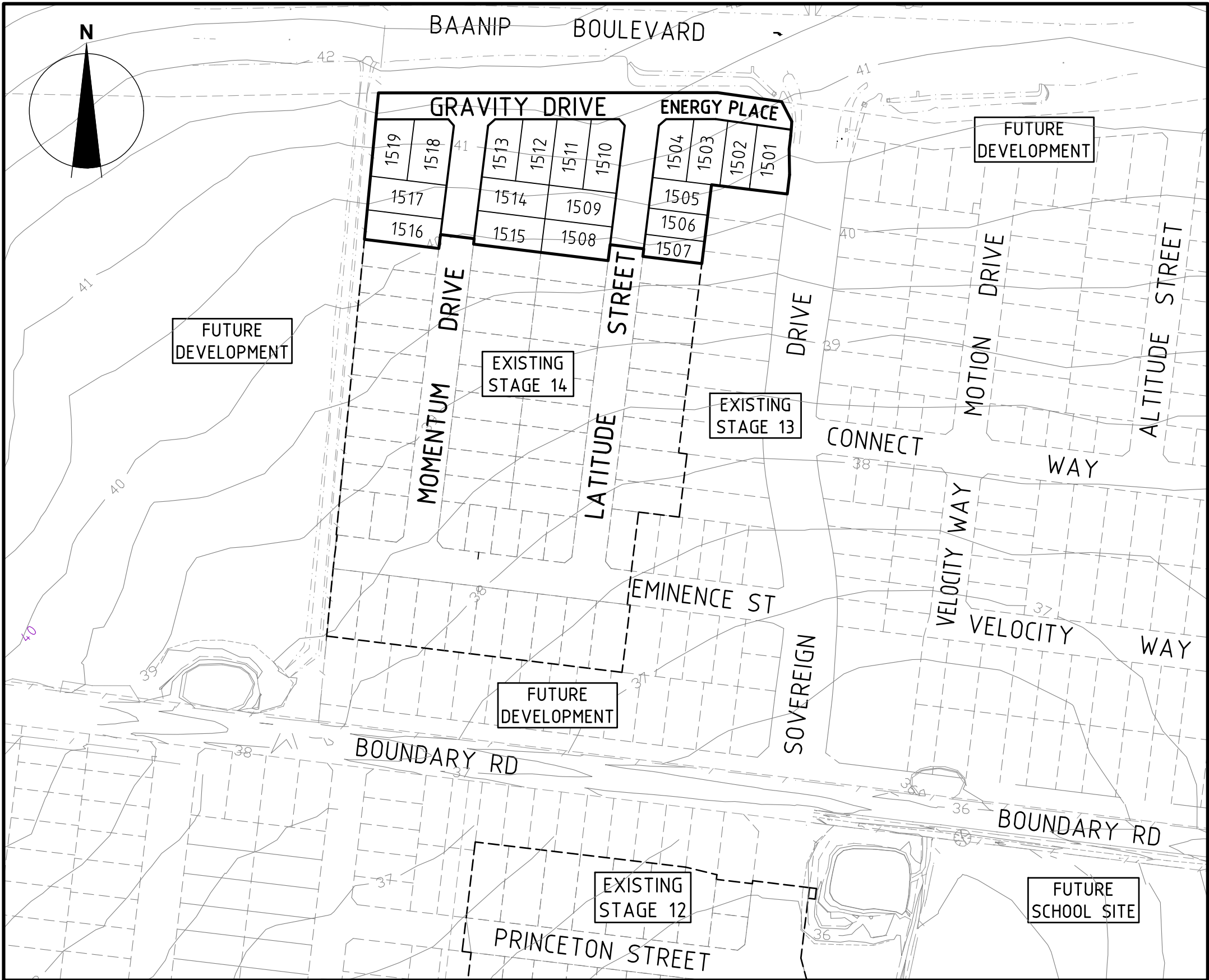


Armstrong Mt. Duneed

Stage 15

City of Greater Geelong



LOCALITY PLAN
MELWAYS REF: 479 F1

Drawing Index

- M100611.15-C 01 Locality Plan
- M100611.15-C 02 Layout Plan
- M100611.15-C 03 Intersection Detail Plan
- M100611.15-C 04 Lip Profiles
- M100611.15-C 05 Setout Information
- M100611.15-C 06 Longitudinal Sections - 1
- M100611.15-C 07 Longitudinal Sections - 2
- M100611.15-C 08 Latitude Street Cross Sections
- M100611.15-C 09 Gravity Drive Cross Sections
- M100611.15-C 10 Momentum Drive Cross Sections
- M100611.15-C 11 Drainage Longitudinal Sections - 1
- M100611.15-C 12 Drainage Longitudinal Sections - 2 & Pit Schedule
- M100611.15-C 13 General Notes & Details
- M100611.15-C 14 Subdivision Setout Plan
- M100611.15-C 15 Concrete Jointing Plan & Details
- M100611.15-C 16 Signs & Linemarking Plan



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Level 2, 55 Southbank Boulevard
Southbank VIC 3006 T 03 9203 9000

AS CONSTRUCTED SIGNATURES	
	27/3/17
SIGN CALIBRE CONSULTING (MELB) PTY LTD LEVEL 2, 55 SOUTHBANK BOULEVARD SOUTHBANK VIC 3006	DATE
	27/03/2017
SIGN WINSLOW CONSTRUCTORS 50 Barry Road CAMPBELLFIELD VIC 3081	DATE

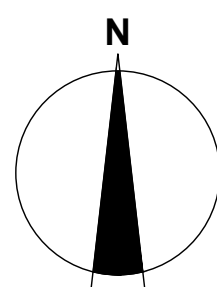
AS CONSTRUCTED



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.



AS CONSTRUCTED SIGNATURES	
SIGN	DATE
CALBRE CONSULTING (MELB) PTY LTD LEVEL 2, 55 SOUTHBANK BOULEVARD SOUTHBANK VIC 3008	27/3/17
Winslow 27/03/2017	
SIGN	DATE
WINSLOW CONSTRUCTORS 50 Barry Road CAMPBELLFIELD VIC 3061	

LEGEND

- E Electricity (Underground)
- G Gas
- T Telstra
- W Water
- SW Stormwater Drain, Pit and Property Inlet
- SD Swale Drain
- SS Sewer, Maintenance Structures and Property Connection
- HD House Drain
- GW Gas & Water Conduits
- TP Tactile Paver - Directional
- TH Tactile Paver - Hazard
- Ex E Existing Electricity (Underground)
- Ex H/E Existing Electricity (Overhead)
- Ex G Existing Gas
- Ex T Existing Telstra
- Ex W Existing Water
- Ex D Existing Stormwater Drain
- Ex S Existing Sewer
- Ex H Existing House Drain
- Ex T Existing Tree to Remain
- Ex S Existing Tree to be Removed
- Ex S Existing Swale Drain
- ES14.134 Existing Surface Level
- FS14.0.35 Finished Building Line Level
- FR15.4.0 Finished Ridge Line Level
- TS15.3.0 Top of Retaining Wall
- BS15.3.0 Bottom of Retaining Wall
- Retaining Wall
- Intersection Threshold Treatment
- Structural Fill > 200mm Deep
- Ex. Structural Fill > 200mm Deep
- Proposed Driveway
- Allotment to be graded evenly in direction of fall to levels indicated
- Direction of Fall
- Overland Flow
- Permanent Survey Mark
- Temporary Bench Mark
- Concrete Edge Strip with Subsoil Drain underneath "No Road" sign and Barrier
- Building Envelope
- Limit of Works

NOTE:
EXISTING FARM FENCE TO BE MAINTAINED DURING CONSTRUCTION PERIOD. REPAIR WORK TO FARM FENCE DURING CONSTRUCTION PHASE TO BE CONDUCTED AS REQUIRED

NOTE:
ADJOINING PROPERTY OWNERS WRITTEN CONSENT, TO BE OBTAINED PRIOR TO ANY WORKS BEING CONDUCTED IN ADJOINING LAND

FUTURE DEVELOPMENT

EXISTING STAGE 14

EXISTING STAGE 13

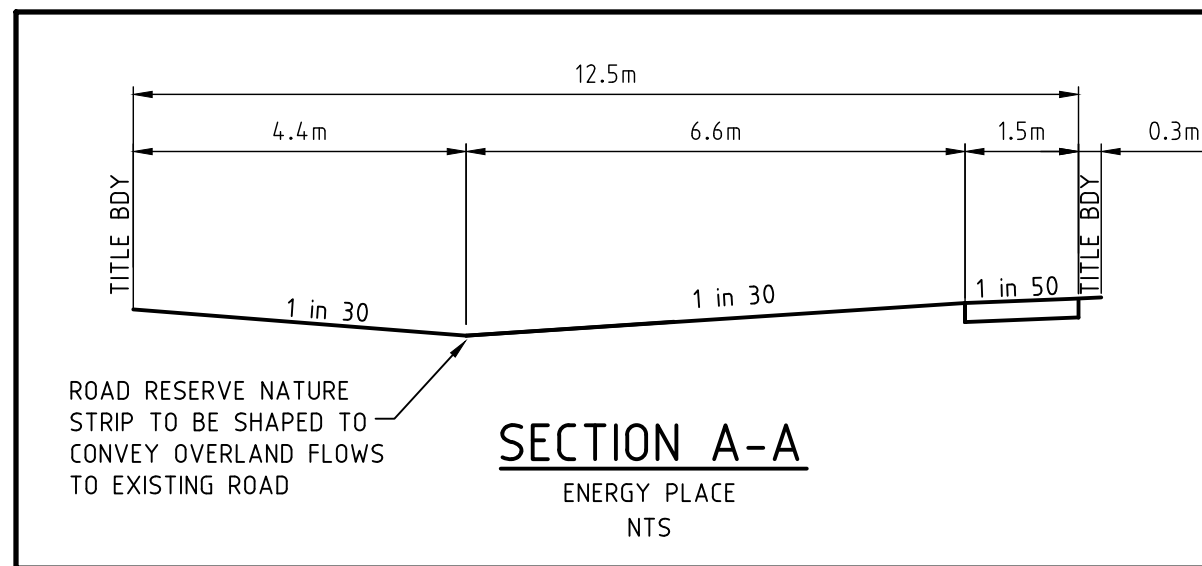
EXISTING STAGE 14

ROAD NAME	SERVICES OFFSET SCHEDULE									
	GAS		RECYCLED WATER		WATER		ELECTRICITY		COMMUNICATION	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
LATITUDE STREET	WEST	2.10	WEST	2.40	WEST	2.90	EAST	2.60	EAST	1.775
MOMENTUM DRIVE	WEST	2.10	WEST	2.40	WEST	2.90	EAST	2.60	EAST	1.775
GRAVITY DRIVE	SOUTH	3.40	SOUTH	3.80	SOUTH	4.25	SOUTH	2.40	SOUTH	1.800
ENERGY PLACE	SOUTH	3.40	SOUTH	3.80	SOUTH	4.25	SOUTH	2.40	SOUTH	1.800

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)				KERB TYPE		VERGE WIDTH (m)	
			LIP to LIP	INV to INV	BACK to BACK		NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
LATITUDE STREET	ACCESS	16.00	6.70	7.30	7.60		B2	B2	4.20	4.20
MOMENTUM DRIVE	ACCESS	16.00	6.70	7.30	7.60		B2	B2	4.20	4.20
GRAVITY DRIVE	ACCESS	12.50	4.90	5.50	5.80		B2	B2	1.50	5.20
ENERGY PLACE	LANE	12.50	5.50	-	-		-	-	1.65	5.35

NOTES:

- ALL VEHICLE AND PRAM CROSSING LAYBACKS TO BE MINIMUM OF 1.0m FROM PITS.
- ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
- ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
- VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
- SIDE ENTRY PITS SHOWN OFFSET BY 1m FROM TANGENT POINTS, TO ACCOMMODATE CHANNEL DEPTH TRANSITION. FOR DETAILS REFER TO IDM STANDARD DRAWING SD430
- ALL COORDINATES SHOWN ARE TO AHD
- THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002
- PROPERTY INLET POINT CHAINAGES, SERVICING FUTURE LOTS ARE MEASURED FROM THE DOWNSTREAM PIT.
- SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE TO BE ROTATED TO ENSURE COVER POSITION IS LOCATED WITH FOOTPATH.



AC	05/05/17	AS CONSTRUCTED ISSUE
5	19/04/17	GRAVITY DRIVE ROCK LINED OUTLET ADDED
4	20/02/17	BOLLARD NOTE AMENDED
3	7/06/16	SOS AND LOT 1506 GW TAPPING AMENDED
2	04/05/16	LOT 1512 PI ADDED
1	20/04/16	GRAVITY DRIVE END CHAINAGE UPDATED
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
DATE		COMMENTS



STAGE 15



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Level 2, 55 Southbank Boulevard
Southbank VIC 3006

T 03 9203 9000

TITLE

LAYOUT PLAN

1:500 10 5 0 10 20 A1
1:1000 A3

SCALE @ A1	DRAWN	DESIGNED
1:500	L.CHAPPLE	R.KOZUL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
J.CONSIGLIO	T.PALIOS	11/09/15

AS CONSTRUCTED

SIGNED	DATE

DRAWING NUMBER

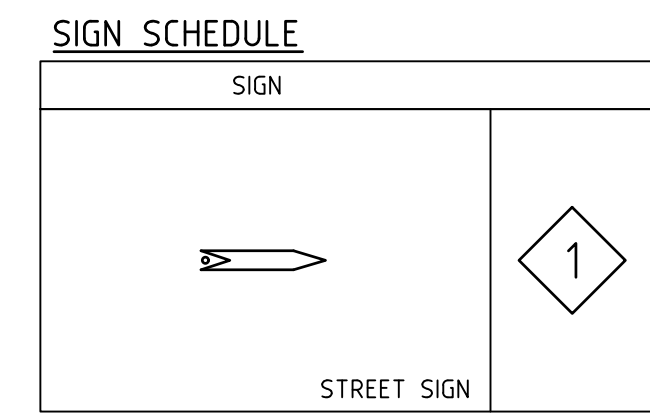
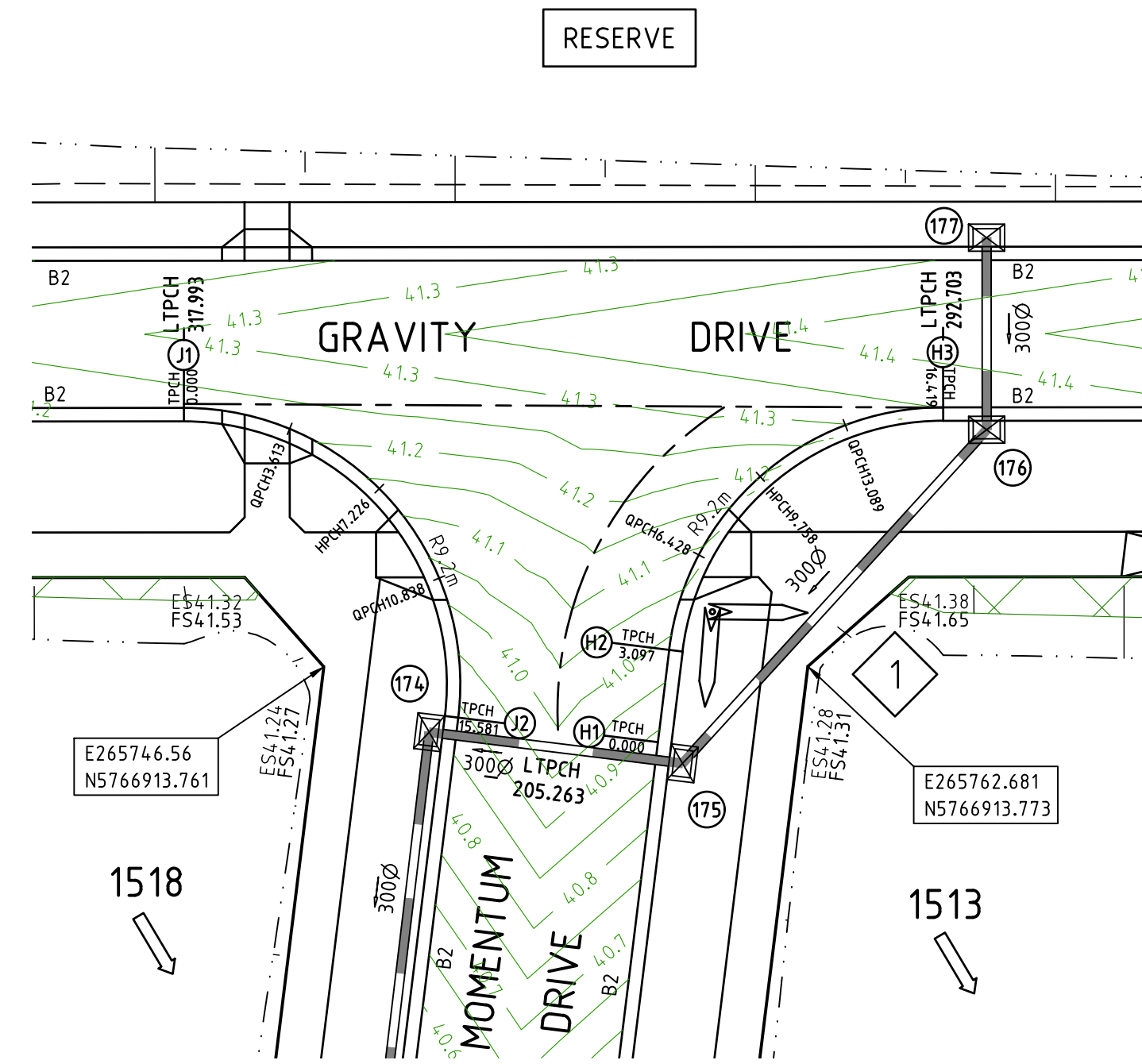
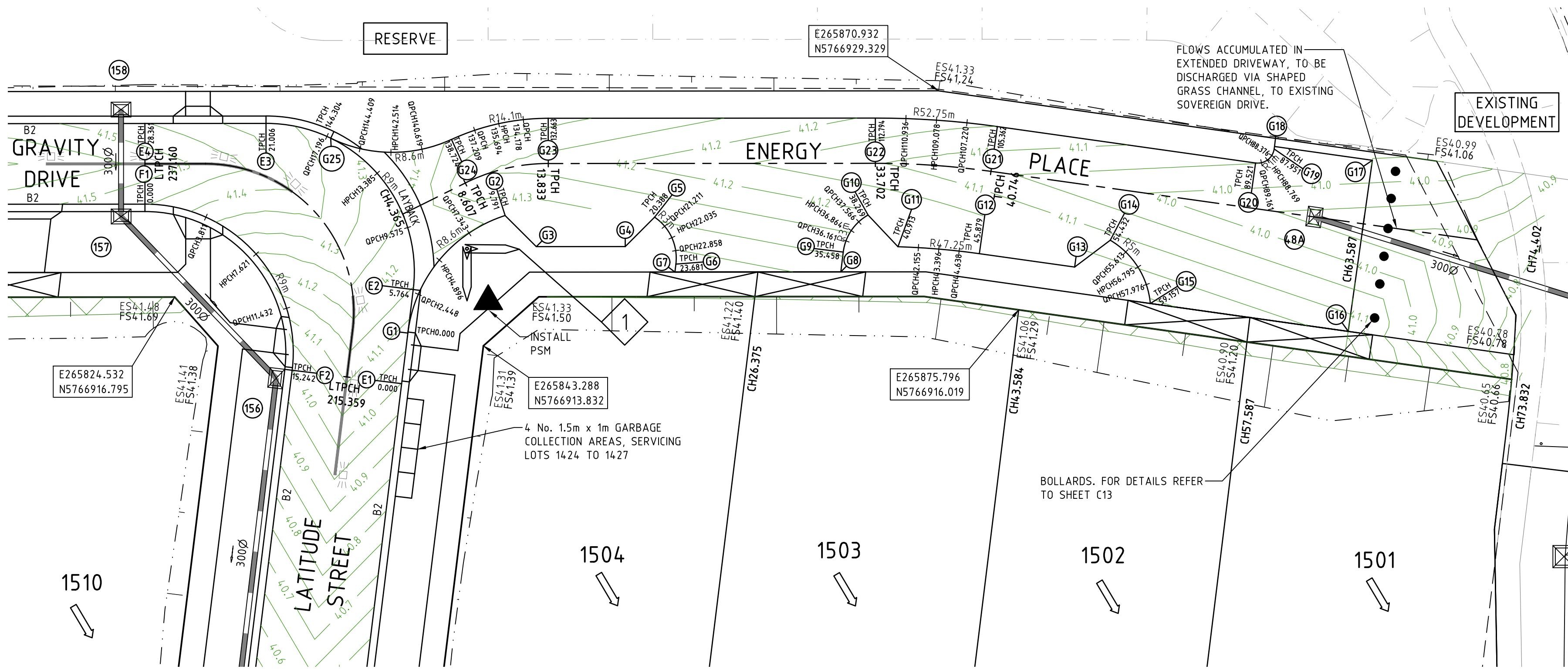
M100611.15-C02

REVISION

AC



A.C.N. 109 448 982



AS CONSTRUCTED SIGNATURES

SIGN: CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBANK BOULEVARD
SOUTHBANK VIC 3008

DATE: Winslow 27/03/2017

SIGN: WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081

- LEGEND
- Electricity (Underground)
 - Gas
 - Optic
 - Recycled Water
 - Telstra
 - Water
 - Stormwater Drain, Pit and Property Inlet
 - Swale Drain
 - Sewer, Maintenance Structures and Property Connection
 - House Drain
 - Gas & Water Conduits
 - Tactile Paver - Directional
 - Tactile Paver - Hazard
 - Existing Electricity (Underground)
 - Existing Electricity (Overhead)
 - Existing Gas
 - Existing Telstra
 - Existing Water
 - Existing Stormwater Drain
 - Existing Sewer
 - Existing House Drain
 - Existing Tree to Remain
 - Existing Tree to be Removed
 - Existing Swale Drain
 - Existing Surface Level
 - Finished Building Line Level
 - Finished Ridge Line Level
 - Top of Retaining Wall
 - Bottom of Retaining Wall
 - Retaining Wall
 - Intersection Threshold Treatment
 - Structural Fill > 200mm Deep
 - Ex. Structural Fill > 200mm Deep
 - Proposed Driveway
 - Allotment to be graded evenly in direction of fall to levels indicated
 - Direction of Fall
 - Overland Flow
 - Permanent Survey Mark
 - Temporary Bench Mark
 - Concrete Edge Strip with Subsoil Drain underneath "No Road" sign and Barrier
 - Building Envelope
 - Limit of Works

AC	05/05/17	AS CONSTRUCTED ISSUE
1	20/02/17	BOLLARD NOTE AMENDED
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
DATE	COMMENTS	



PROJECT

ARMSTRONG MT DUNEED

STAGE 15



CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3006

T 03 9203 9000

TITLE

INTERSECTION DETAIL PLAN

1:200 2 0 2 4 6 8 10 A1
1:400 A3

SCALE @ A1	DRAWN	DESIGNED
1:200	L.CHAPPLE	R.KOZUL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
J.CONSIGLIO	T.PALIOS	11/09/15

AS CONSTRUCTED		
SIGNED	DATE	
DRAWING NUMBER	REVISION	
M100611.15-C03	AC	

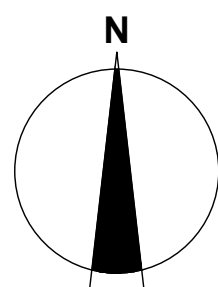
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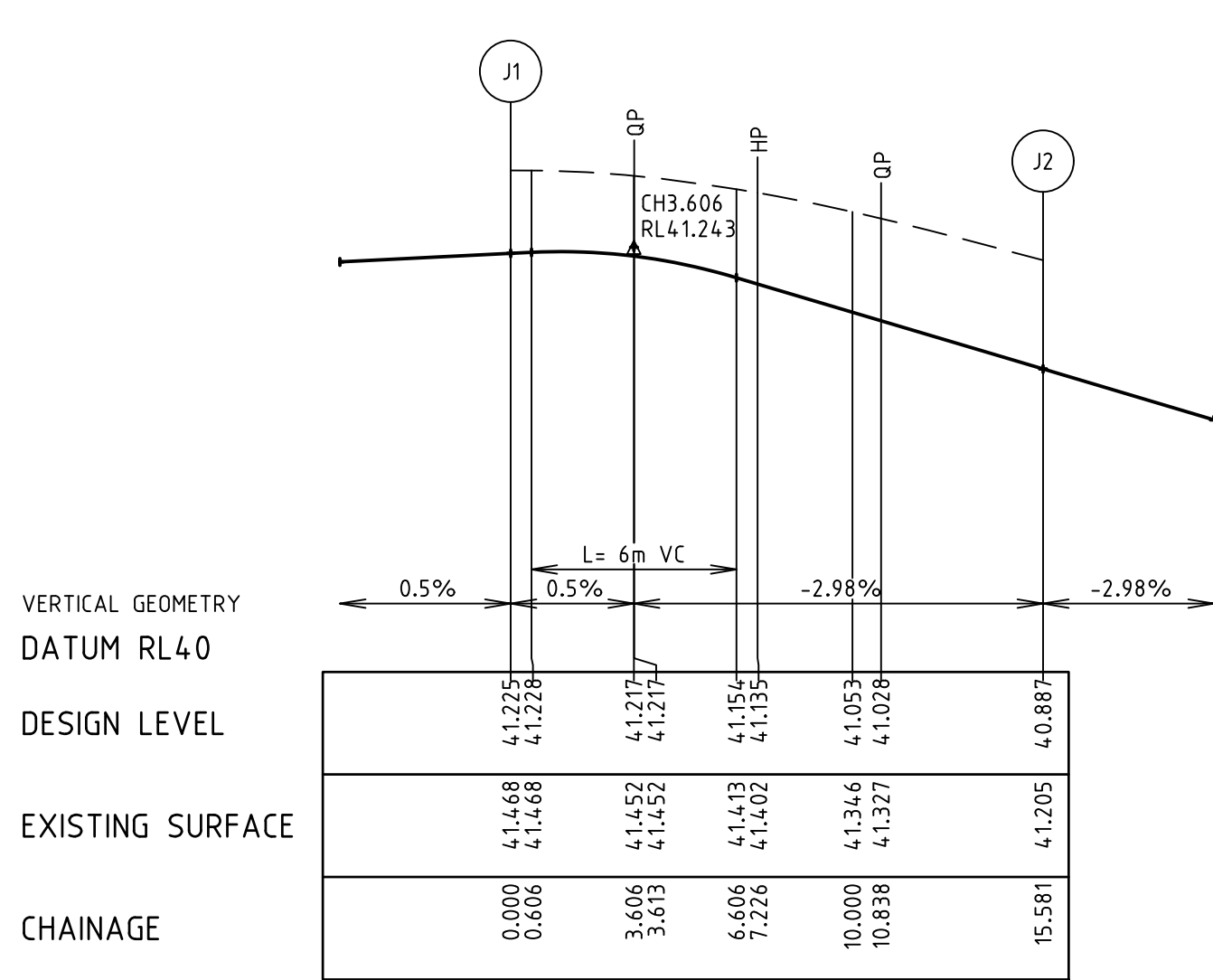
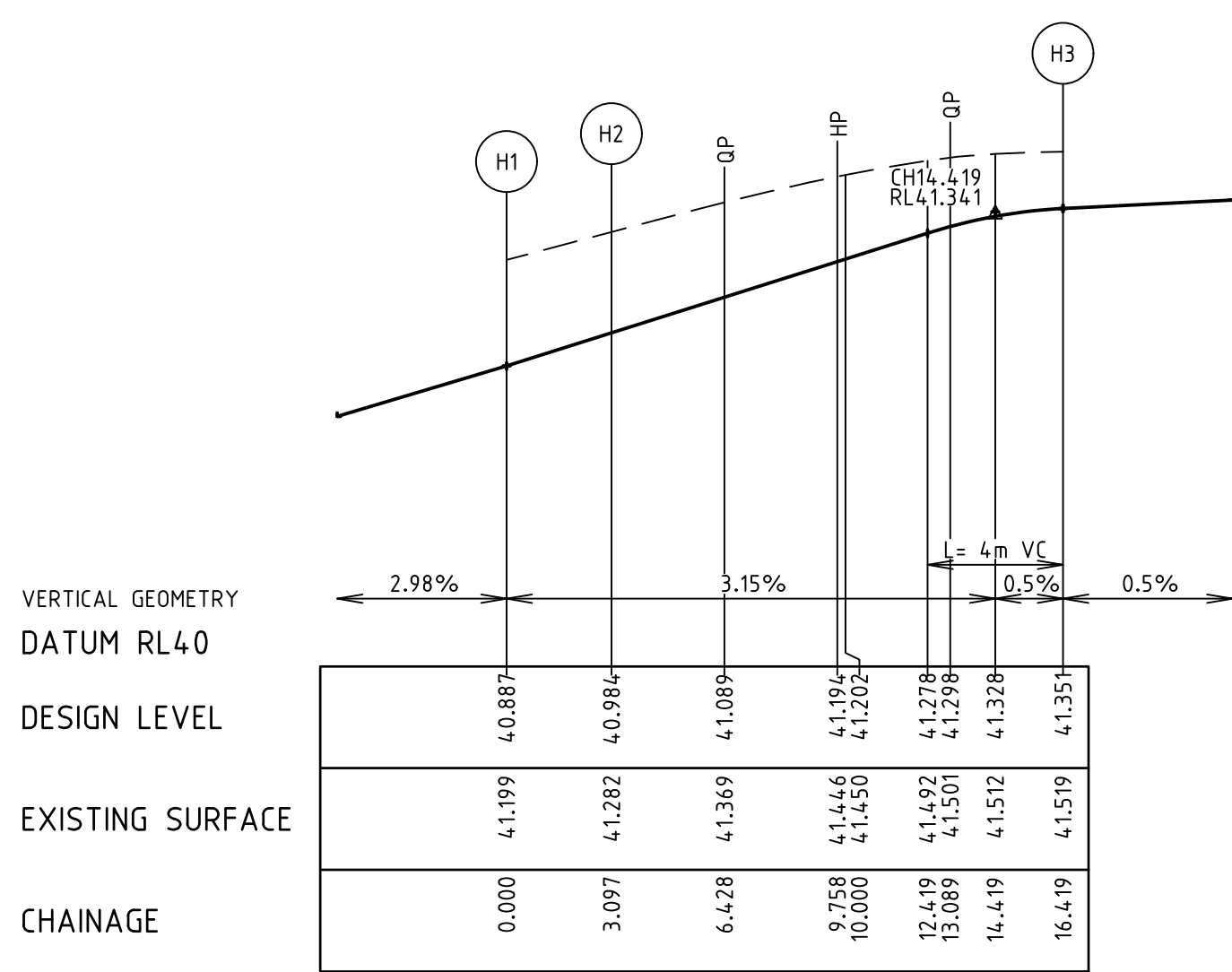
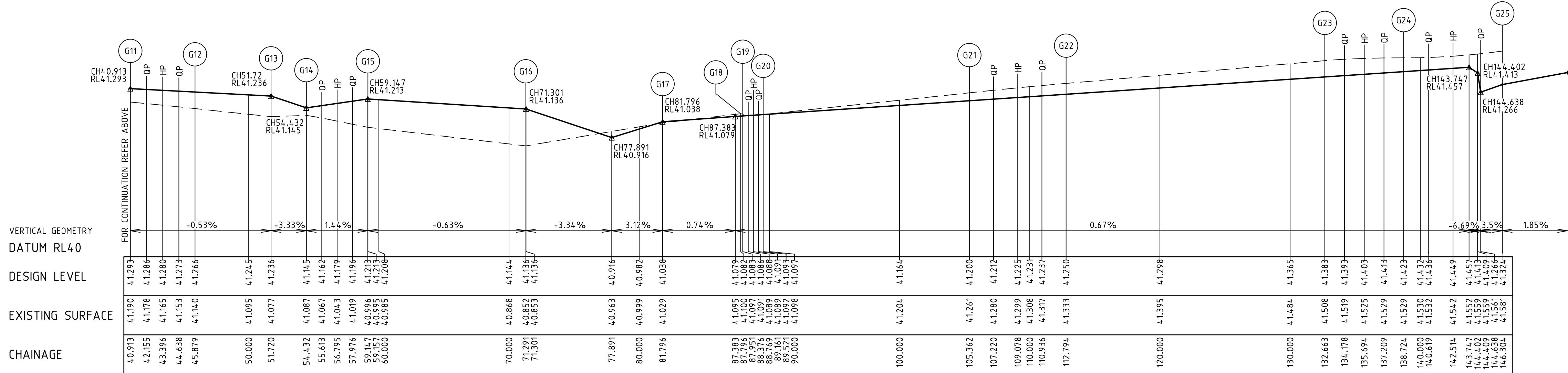
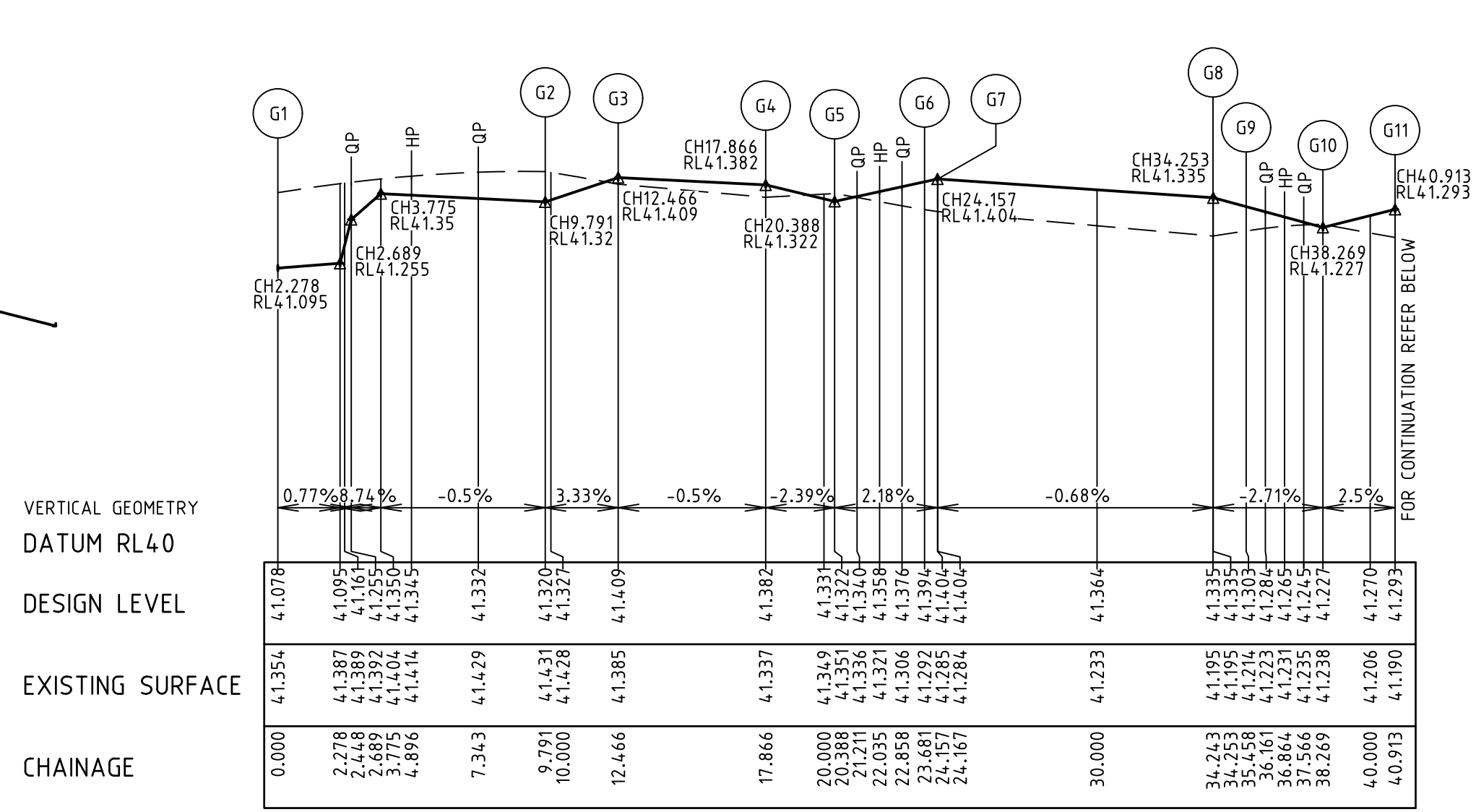
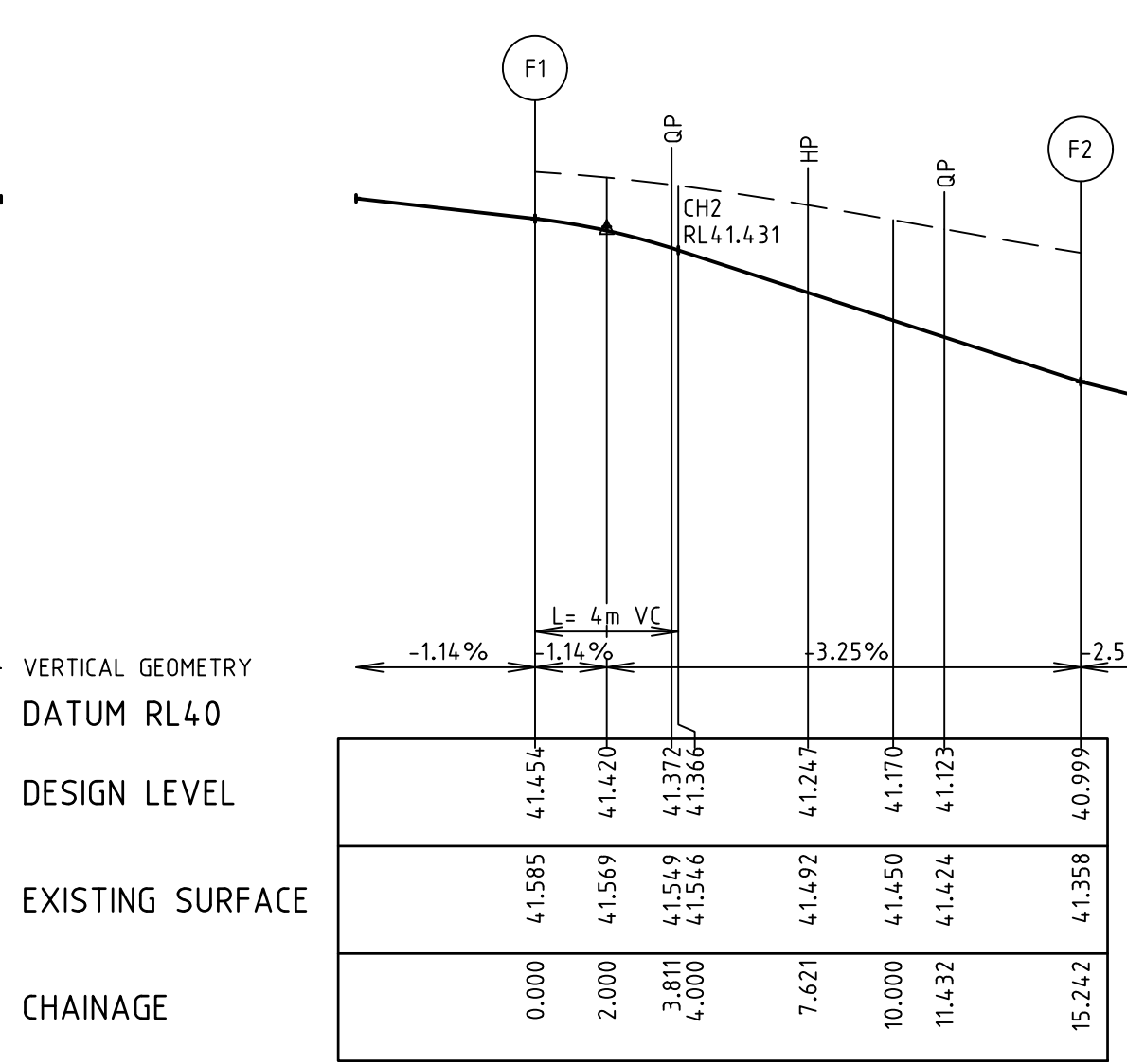
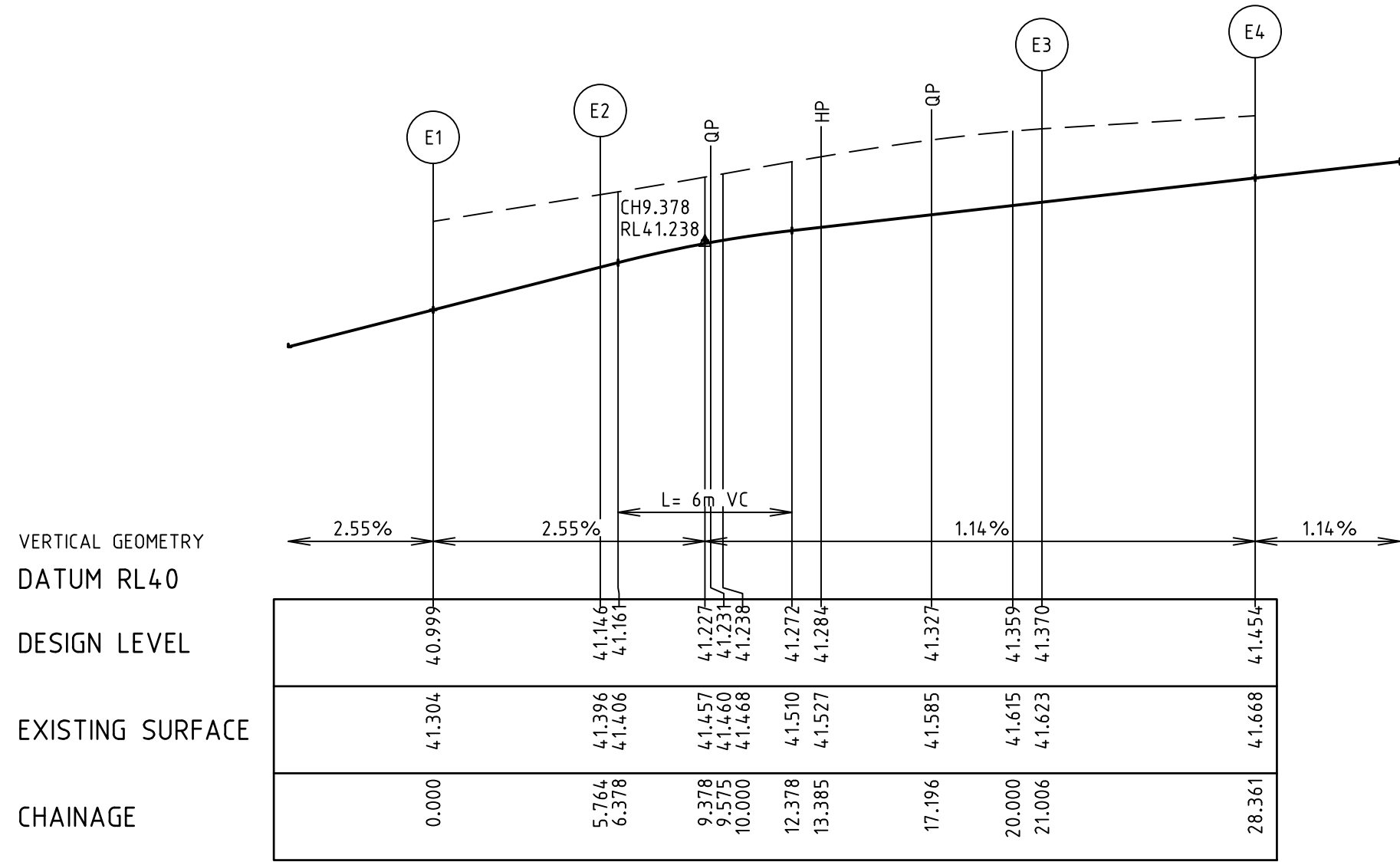
BWARE OF UNDERGROUND SERVICES

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.

- NOTES
- REFER TO SHEET No C04 FOR LIP PROFILES.
 - REFER TO SHEET No C05 FOR SETOUT INFORMATION.
 - 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPm'S AT MAX 6m SPACING.
 - BLADES ON ALL DOUBLE STREET SIGNS, TO BE INSTALLED ONE UNDER THE OTHER

- LINEMARKING & SIGNAGE NOTES:
- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
 - LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION.
 - ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
 - LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.





LEGEND

--- EXISTING SURFACE

— DESIGN LINE

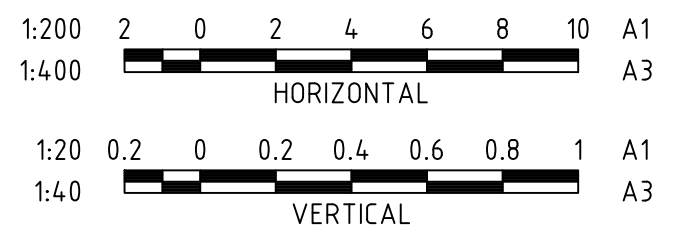
AS CONSTRUCTED SIGNATURES

SIGN: CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBANK BOULEVARD
SOUTHBANK VIC 3008

DATE: 27/3/17

SIGN: Winslow 27/03/2017
DATE: 27/03/2017

SIGN: WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081



AC	05/05/17	AS CONSTRUCTED ISSUE
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
DATE	COMMENTS	



STAGE 15



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Southbank VIC 3006 T 03 9203 9000

LIP PROFILES

SCALE @ A1 H1:200 V1:20	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
DRAWING NUMBER	REVISION

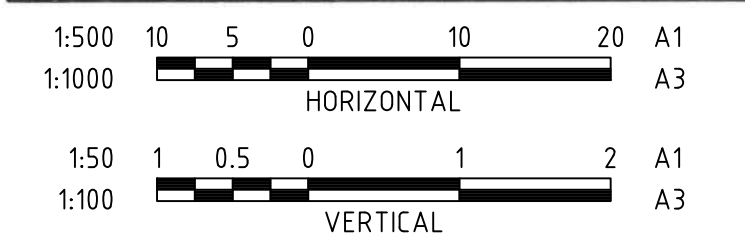
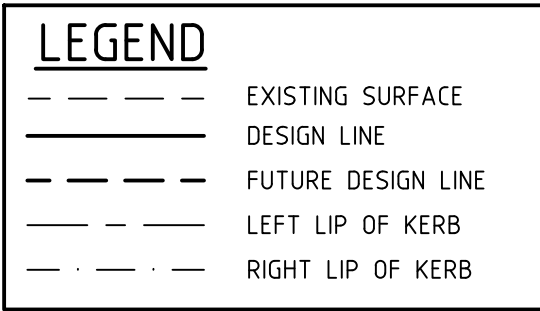
M100611.15-C04

AC



A.C.N. 109 448 982

- NOTES
- CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.
 - REFER TO SHEET NUMBER C05 FOR SETOUT INFORMATION.



AC	05/05/17	AS CONSTRUCTED ISSUE
1	20/04/16	GRAVITY DRIVE STAGE BOUNDARY UPDATED CH348
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
	DATE	COMMENTS



PROJECT

ARMSTRONG

MT DUNEED

STAGE 15



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TITLE _____

LONGITUDINAL SECTIONS - 1

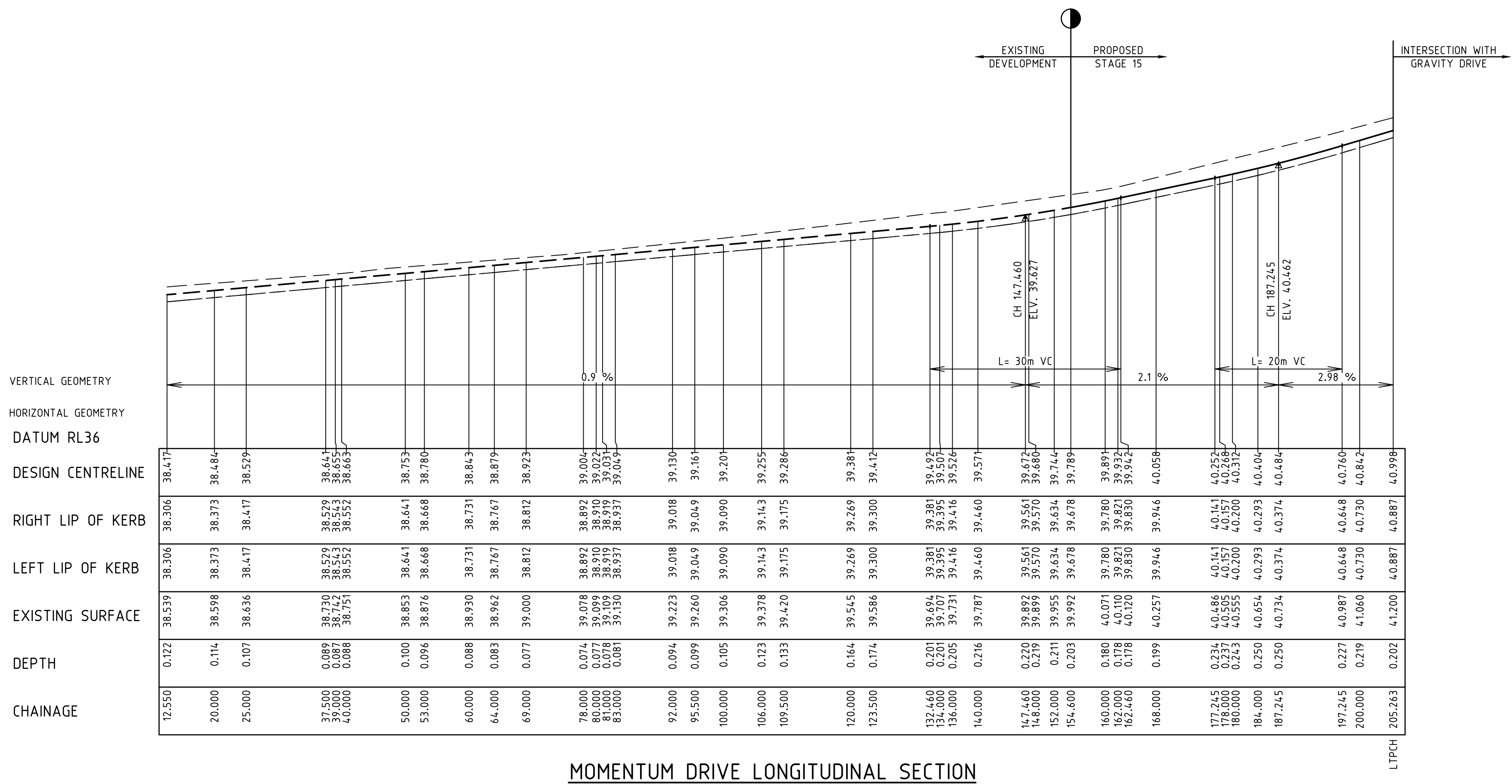
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PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

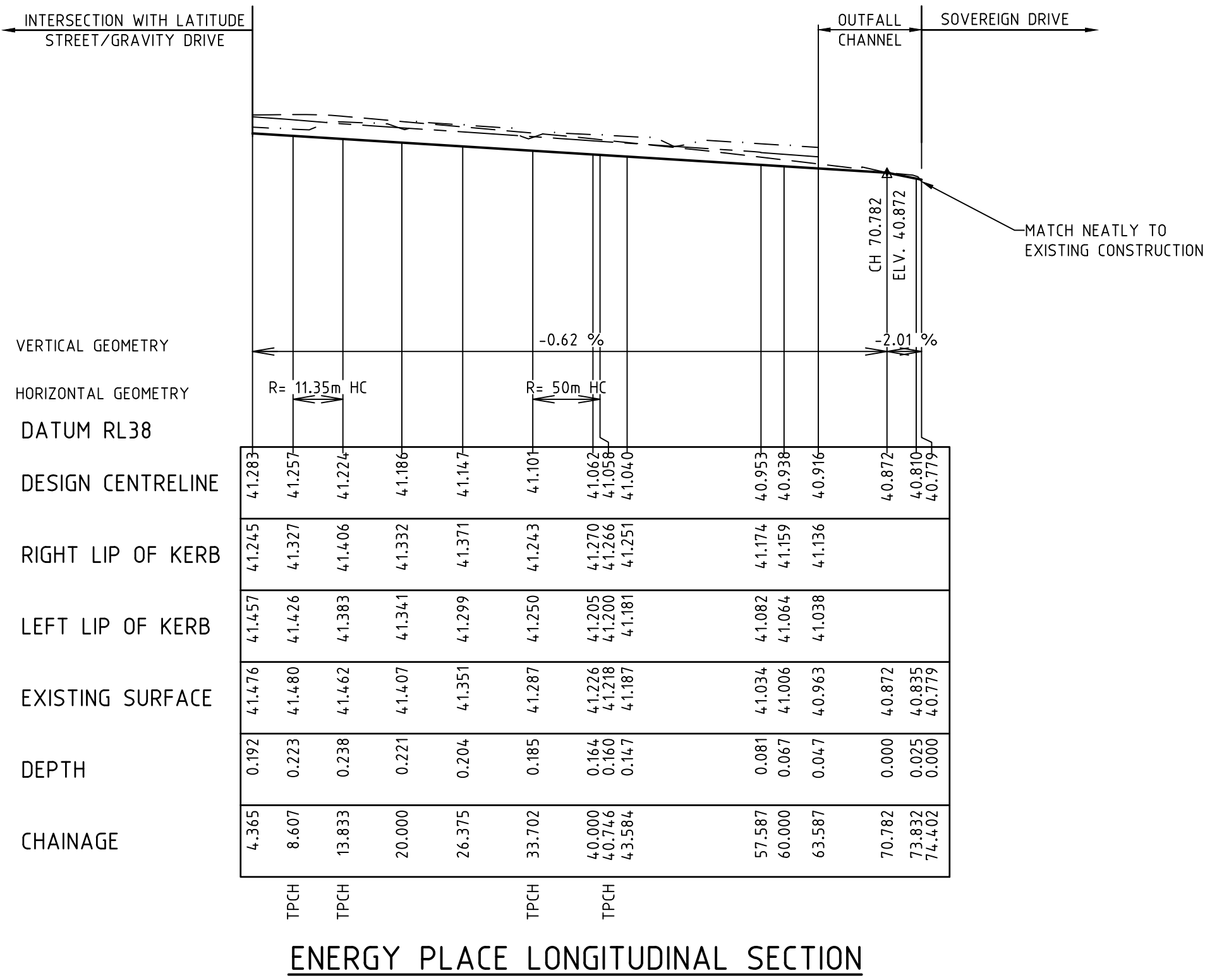
SIGNED	DATE
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M100611.15-C06

AC



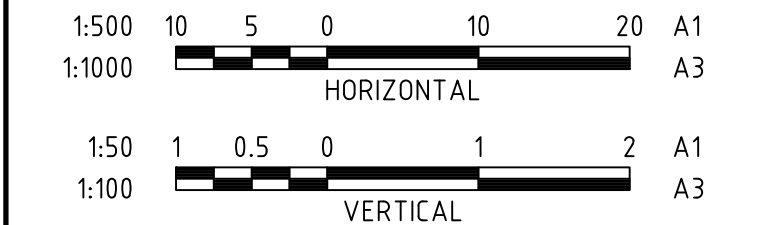
MOMENTUM DRIVE LONGITUDINAL SECTION



ENERGY PLACE LONGITUDINAL SECTION

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

AS CONSTRUCTED SIGNATURES	
SIGN	DATE
CALIBRE CONSULTING (MELB) PTY LTD LEVEL 2, 55 SOUTHBANK BOULEVARD SOUTHBANK VIC 3008	27/3/17
SIGN	DATE
WINSLOW CONSTRUCTORS 50 Barry Road CAMPBELLFIELD VIC 3081	27/03/2017



AC	05/05/17	AS CONSTRUCTED ISSUE
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
DATE	COMMENTS	



STAGE 15



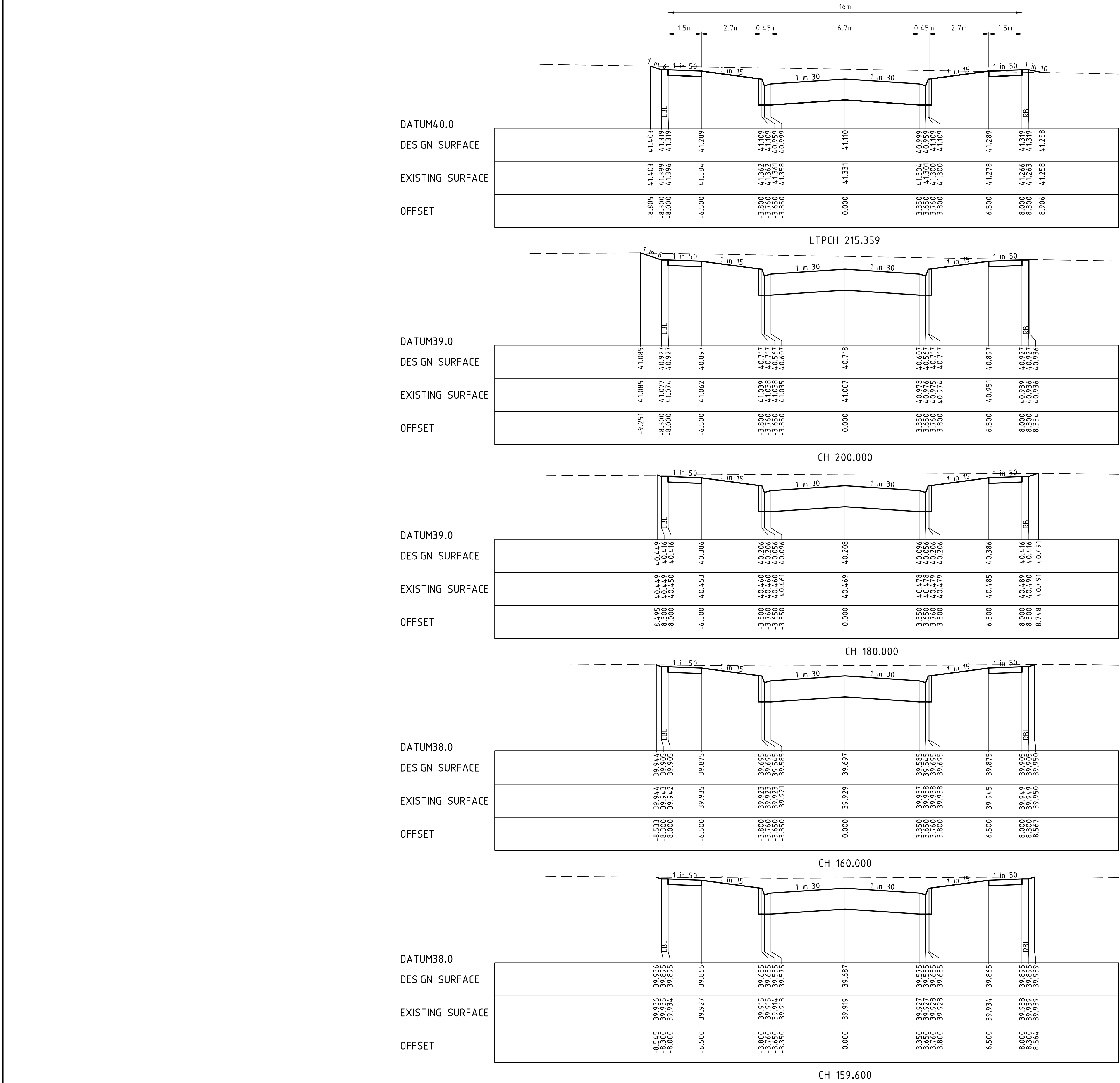
CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3006
T 03 9203 9000

LONGITUDINAL SECTIONS - 2

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PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
DRAWING NUMBER	REVISION
M100611.15-C07	AC

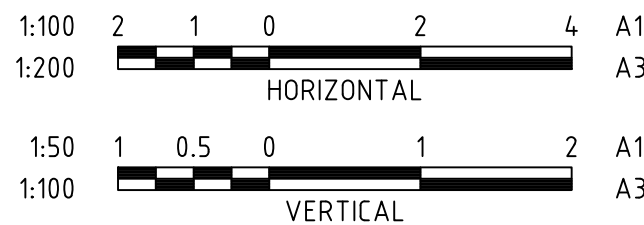


LEGEND

--- EXISTING SURFACE
--- DESIGN LINE

AS CONSTRUCTED SIGNATURES

SIGN DATE
CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBANK BOULEVARD
SOUTHBANK VIC 3008
Winslow 27/03/2017
SIGN DATE
WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081



AC	05/05/17	AS CONSTRUCTED ISSUE
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
DATE	COMMENTS	



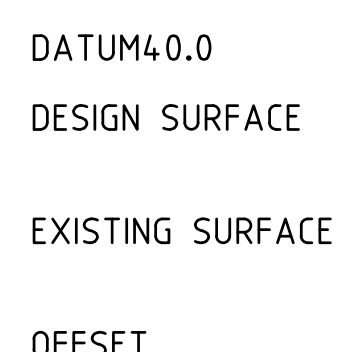
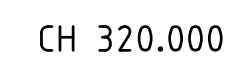
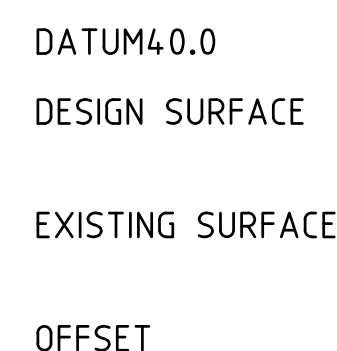
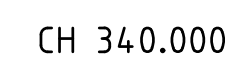
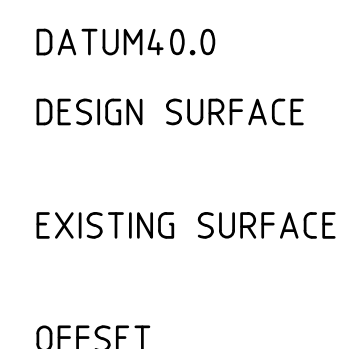
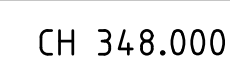
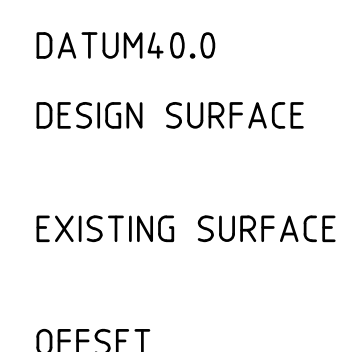
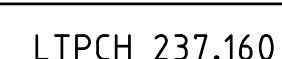
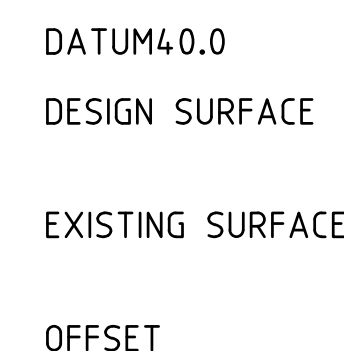
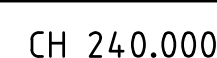
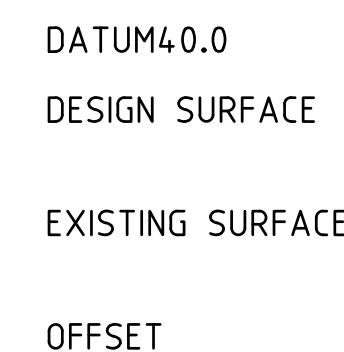
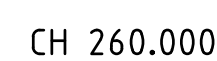
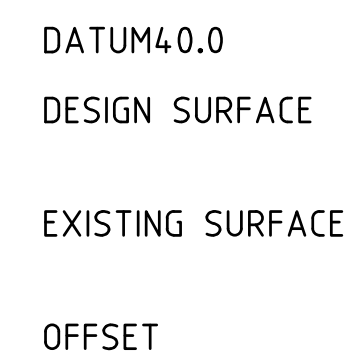
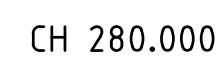
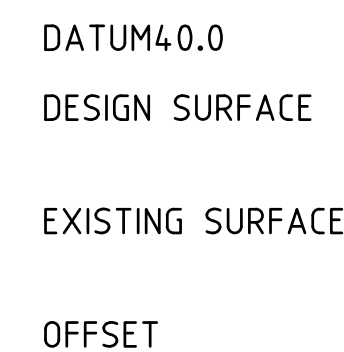
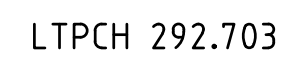
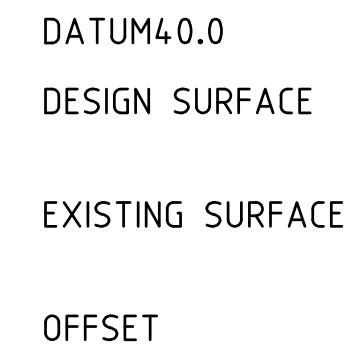
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Level 2, 55 Southbank Boulevard
Southbank VIC 3006 T 03 9203 9000

TITLE
LATITUDE STREET
CROSS SECTIONS

SCALE @ A1 H:100 V:150	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
DRAWING NUMBER M100611.15-C08	REVISION AC



- - - - - EXISTING SURFACE
 _____ DESIGN LINE

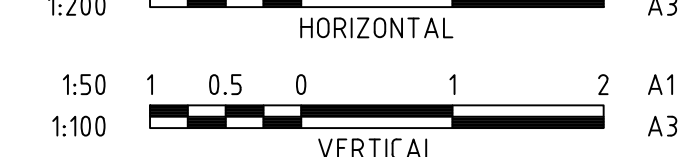
SIGN
CALBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTH-BANK BOULEVARD
SOUTH-BANK VIC 3008

DATE

Winslow 27/03/2017

SIGN
WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3061

DATE



AC	05/05/17	AS CONSTRUCTED ISSUE
1	20/04/16	CHAINAGE 348.000 AMENDED
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
	DATE	COMMENTS



STAGE 15



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CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3006
T 03 9203 9000

TITLE	GRAVITY DRIVE CROSS SECTIONS
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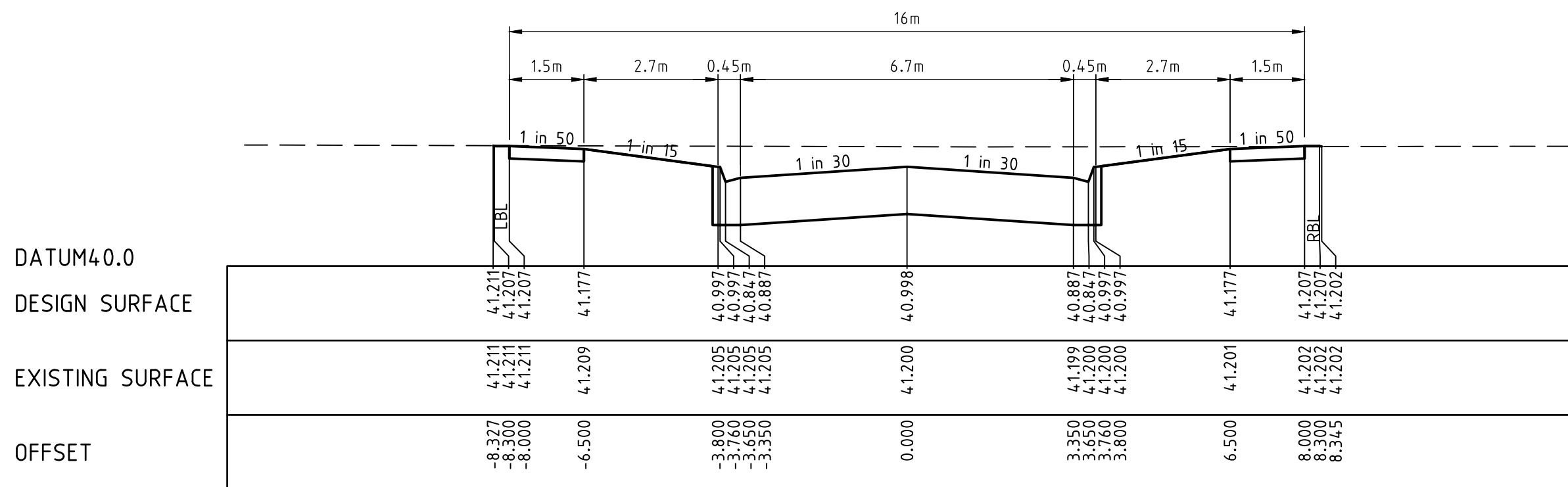
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PROJECT ENGINEER J. CONSIGLIO	PROJECT MANAGER T. PAIROS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

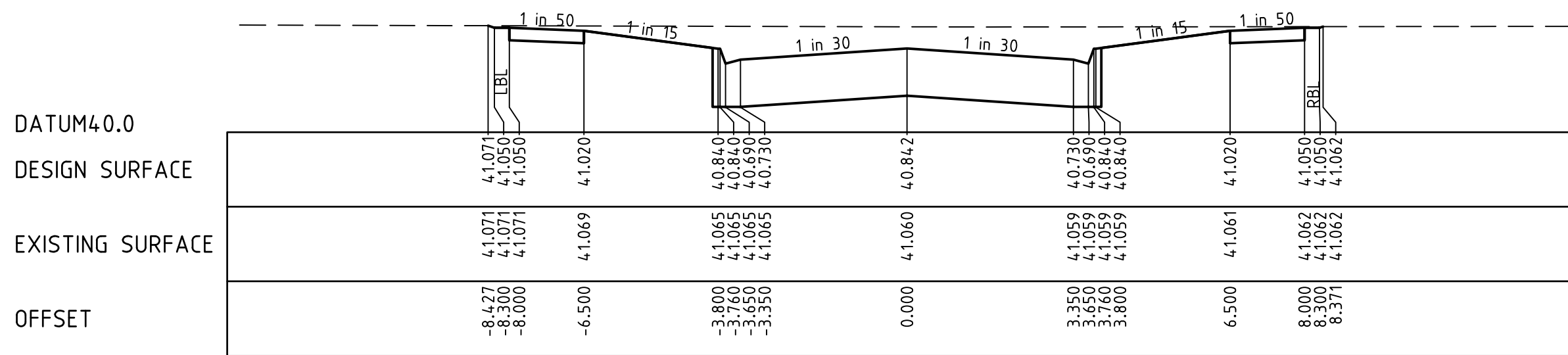
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M100611.15-C09

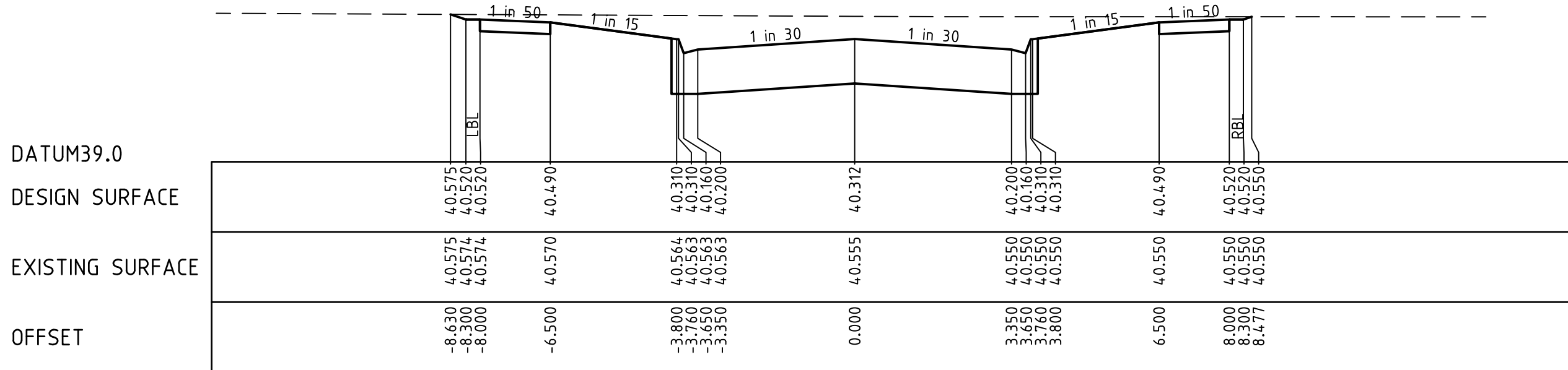
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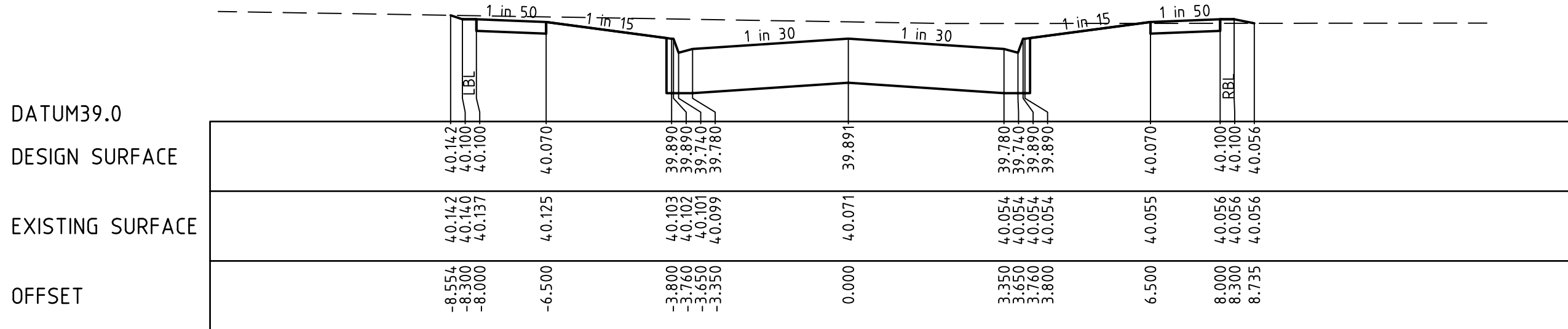
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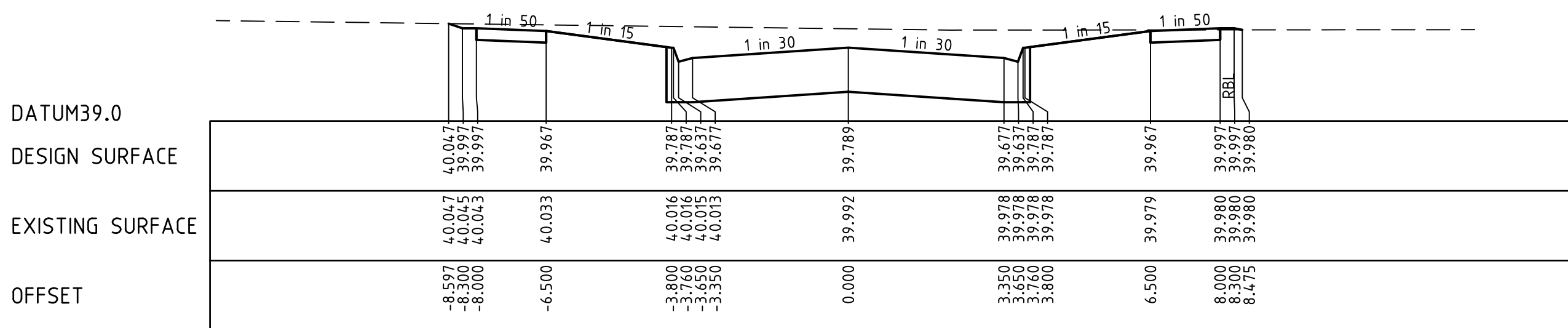
CH 200.000



CH 180.000



CH 160.000

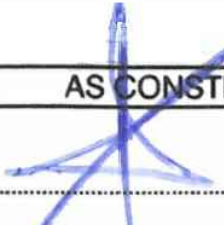


CH 154.600

LEGEND

--- EXISTING SURFACE
--- DESIGN LINE

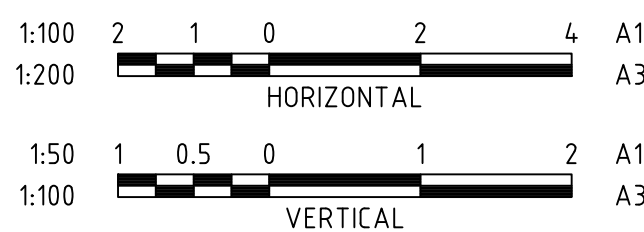
AS CONSTRUCTED SIGNATURES

SIGN:  DATE: 27/3/17

SIGN: CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBANK BOULEVARD
SOUTHBANK VIC 3008

SIGN: Winslow Constructors DATE: 27/03/2017

SIGN: WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081



AC	05/05/17	AS CONSTRUCTED ISSUE
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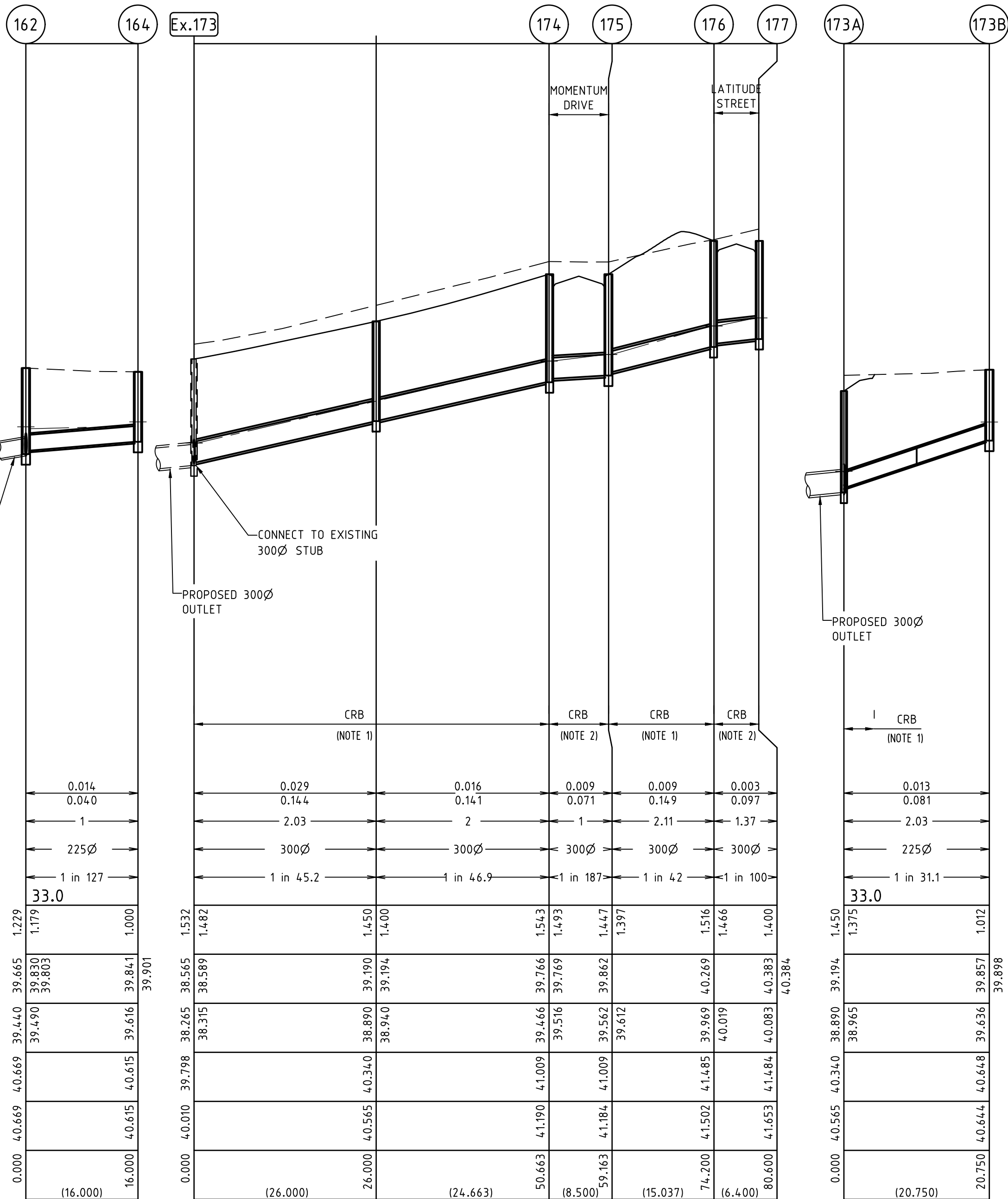
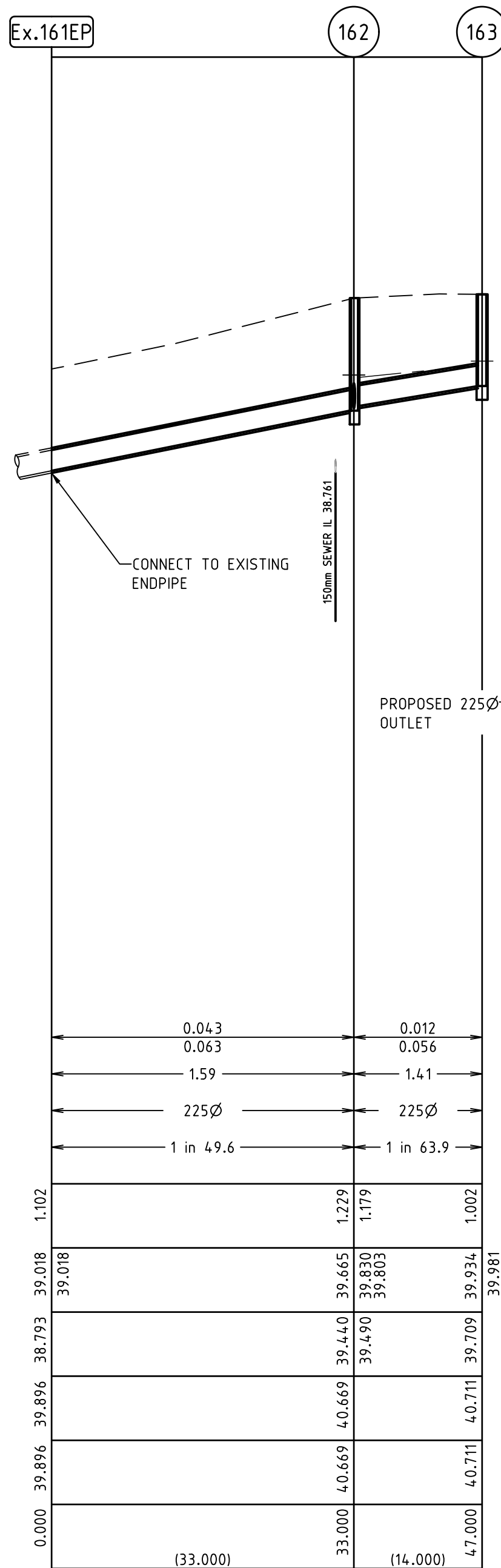
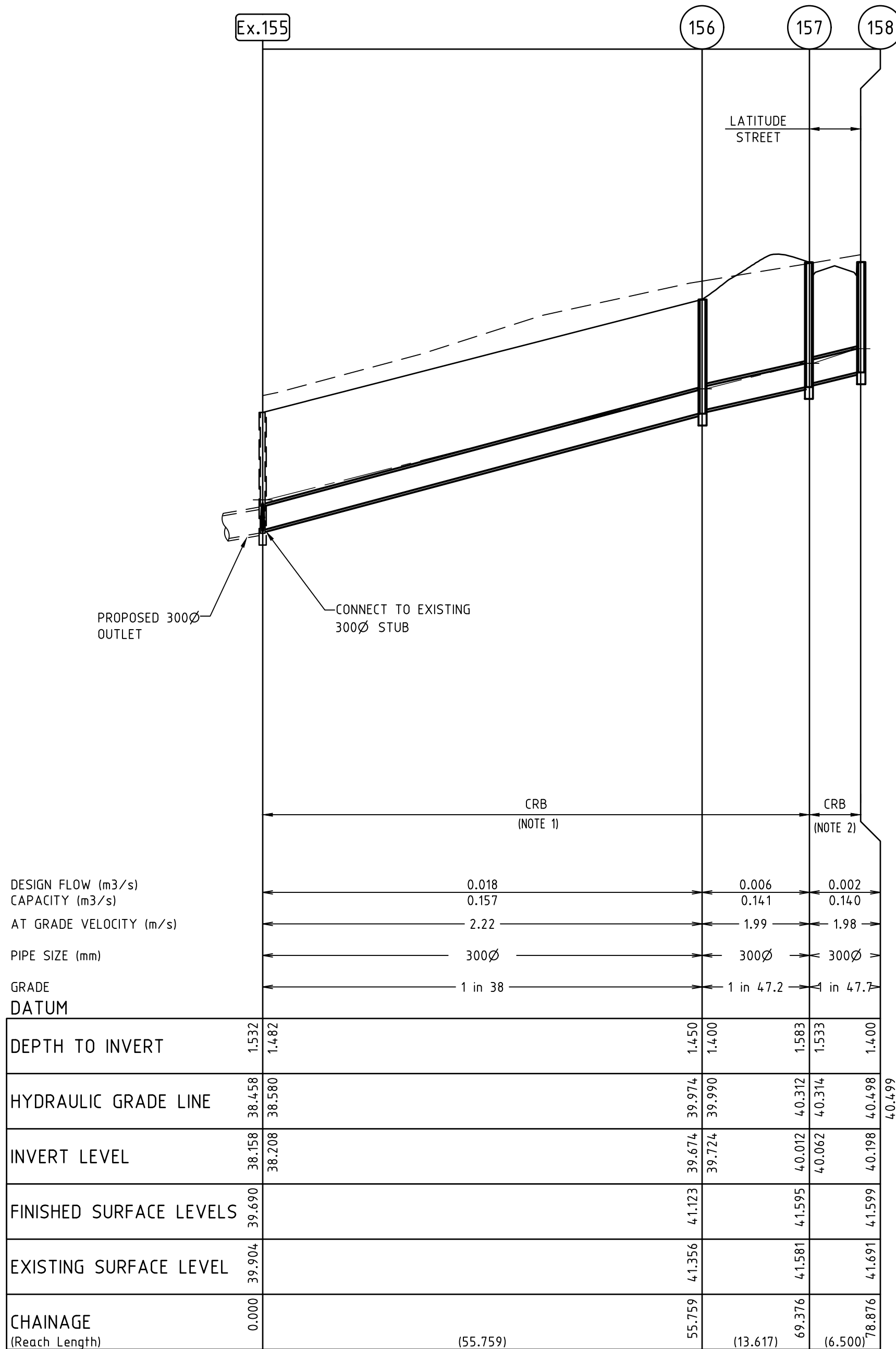
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Southbank VIC 3006 T 03 9203 9000

MOMENTUM DRIVE
CROSS SECTIONS

SCALE @ A1 H1:100 V1:50	DRAWN L.CHAPPLLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
DRAWING NUMBER M100611.15-C10	REVISION AC



- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
 - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
 - ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
 - ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
 - ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

REINFORCED CONCRETE PIPES

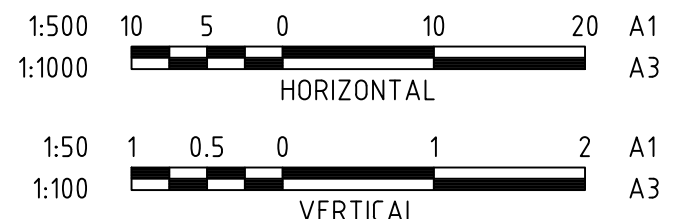
ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

LEGEND

---	EXISTING SURFACE
---	DESIGN SURFACE
---	DRAINAGE PIPE/PIT
---	EXISTING DRAINAGE PIPE/PIT
---	HYDRAULIC GRADE LINE

AS CONSTRUCTED SIGNATURES

SIGN	DATE
CALIBRE CONSULTING (MELB) PTY LTD LEVEL 2, 55 SOUTH BANK BOULEVARD SOUTHBANK VIC 3008	27/03/17
SIGN	DATE
WINSLOW CONSTRUCTORS 50 Barry Road CAMPBELLFIELD VIC 3081	27/03/2017



AC 05/05/17 AS CONSTRUCTED ISSUE

0 29/10/15 CONSTRUCTION ISSUE

A 11/09/15 ISSUED FOR APPROVAL



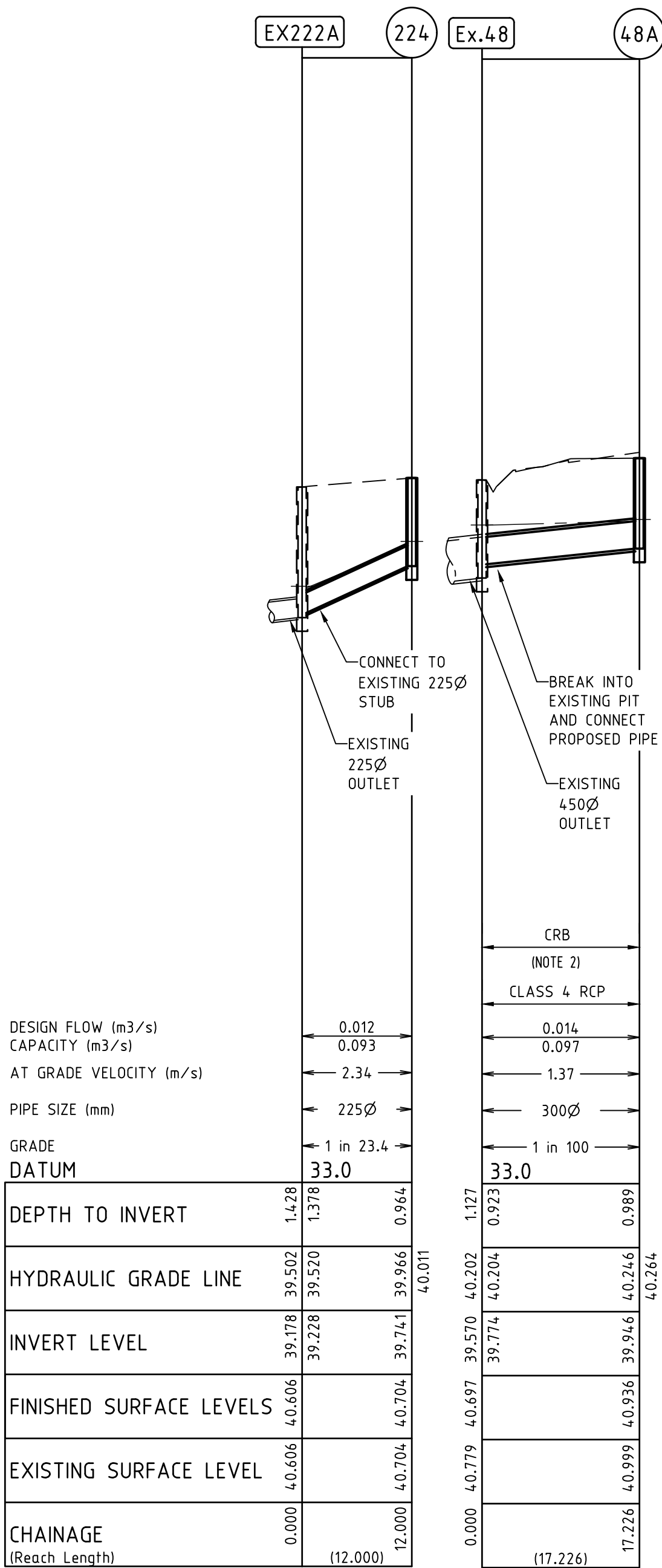
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Level 2, 55 Southbank Boulevard
Southbank VIC 3006
T 03 9203 9000

DRAINAGE LONGITUDINAL SECTIONS - 1

SCALE @ A1 H1:500 V1:50	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
DRAWING NUMBER M100611.15-C11	REVISION AC



NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
 - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
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REINFORCED CONCRETE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA. (mm)	INVERT RL (m)	DIA. (mm)	INVERT RL (m)				
Ex.48	Ex.Pit	600	900	300	39.774	475	39.570	40.697	1.127	SD455	BREAK INTO EXISTING PIT & CONNECT 300Ø DRAIN.
48A	GP	600	900			300	39.946	40.936	0.989		GRATED PIT. FOR DETAILS REFER TO SD455
Ex.155	Ex.Pit	600	900	300	38.208	300	38.158	39.690	1.482		CONNECT TO EXISTING 300DIA. STUB
156	JP	600	900	300	39.724	300	39.674	41.123	1.450	SD420	
157	SEP	600	900	300	40.062	300	40.012	41.595	1.583	SD430	
158	SEP	600	900			300	40.198	41.599	1.400	SD430	
161EP	Ex.EP			225	38.793	225	38.793	39.896	1.103		CONNECT TO EXISTING ENDSPIPE.
162	JP	600	900	225	39.490	225	39.440	40.669	1.229	SD425	
				225	39.490						
163	JP	600	900			225	39.711	40.711	1.000	SD425	
164	JP	600	900			225	39.616	40.615	1.000	SD425	
Ex.173	Ex.SEP	600	900	300	38.315	300	38.265	39.798	1.532	SD430	CONNECT TO EXISTING 300DIA. STUB
173A	JP	600	900	300	38.940	300	38.890	40.340	1.450	SD420	
				225	38.965						
173B	JP	600	900			225	39.636	40.648	1.012	SD425	
174	JP	600	900	300	39.516	300	39.466	41.009	1.543	SD420	
175	SEP	600	900	300	39.612	300	39.562	41.009	1.447	SD430	
176	SEP	600	900	300	40.019	300	39.969	41.485	1.516	SD430	
177	SEP	600	900			300	40.083	41.484	1.400	SD430	
Ex.222A	Ex.JP	600	900	225	39.228	225	39.178	40.606	1.378	SD430	CONNECT TO EXISTING STUB.
224	JP	600	900			225	39.741	40.704	0.964	SD420	

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE

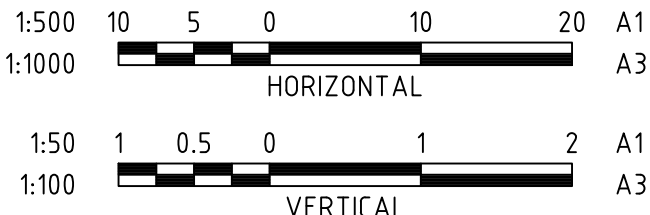
AS CONSTRUCTED SIGNATURES

SIGN: CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBANK BOULEVARD
SOUTHBANK VIC 3008

DATE: 27/03/2017

SIGN: WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081

DATE: 27/03/2017



AC	05/05/17	AS CONSTRUCTED ISSUE
0	29/10/15	CONSTRUCTION ISSUE
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	DATE	COMMENTS



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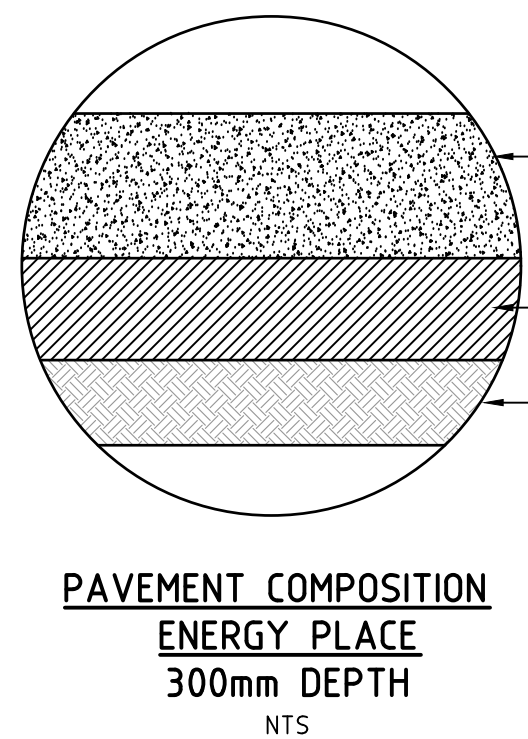
DRAINAGE LONGITUDINAL SECTIONS - 2 AND PIT SCHEDULE

SCALE @ A1 H1:500 V1:50	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

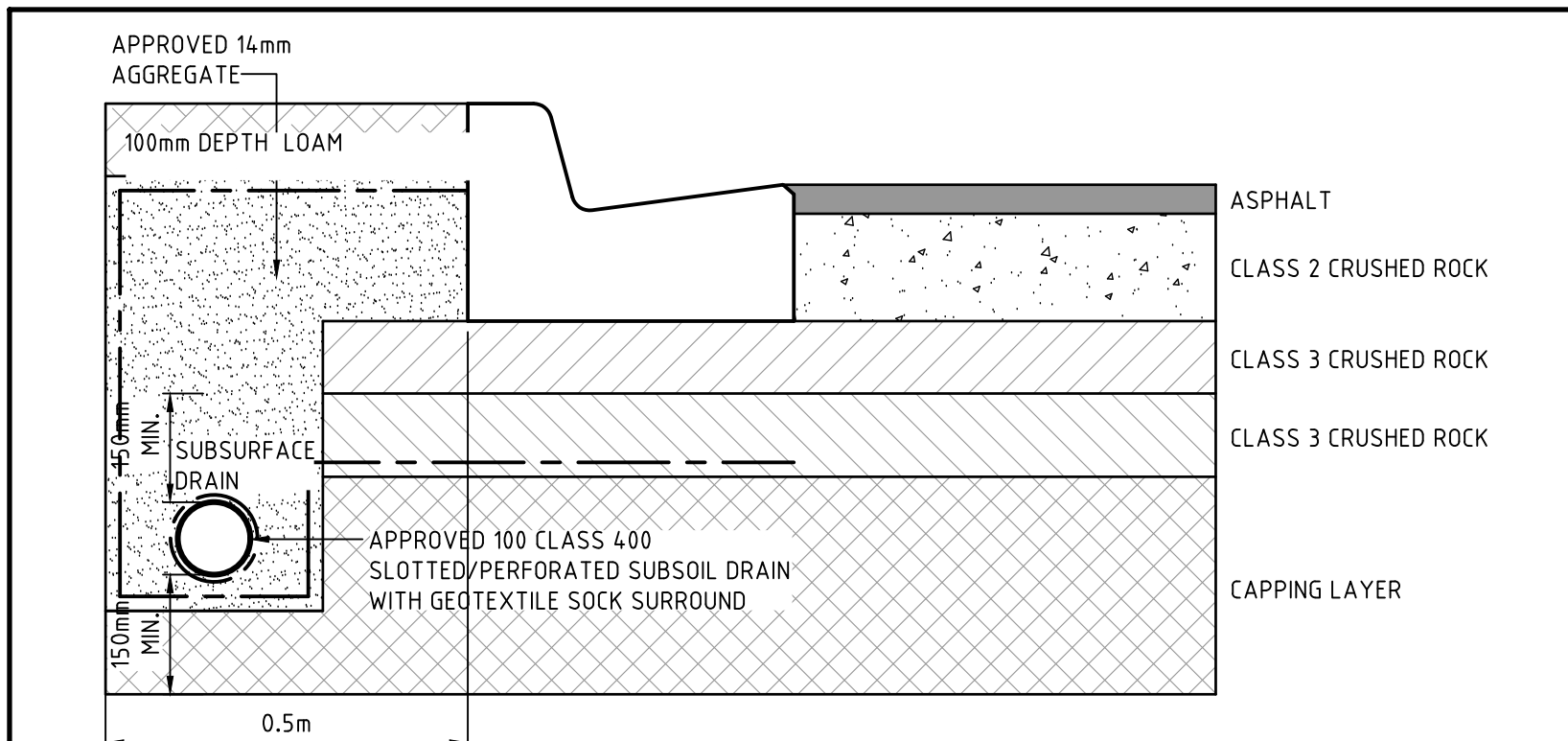
AS CONSTRUCTED

SIGNED: DATE:

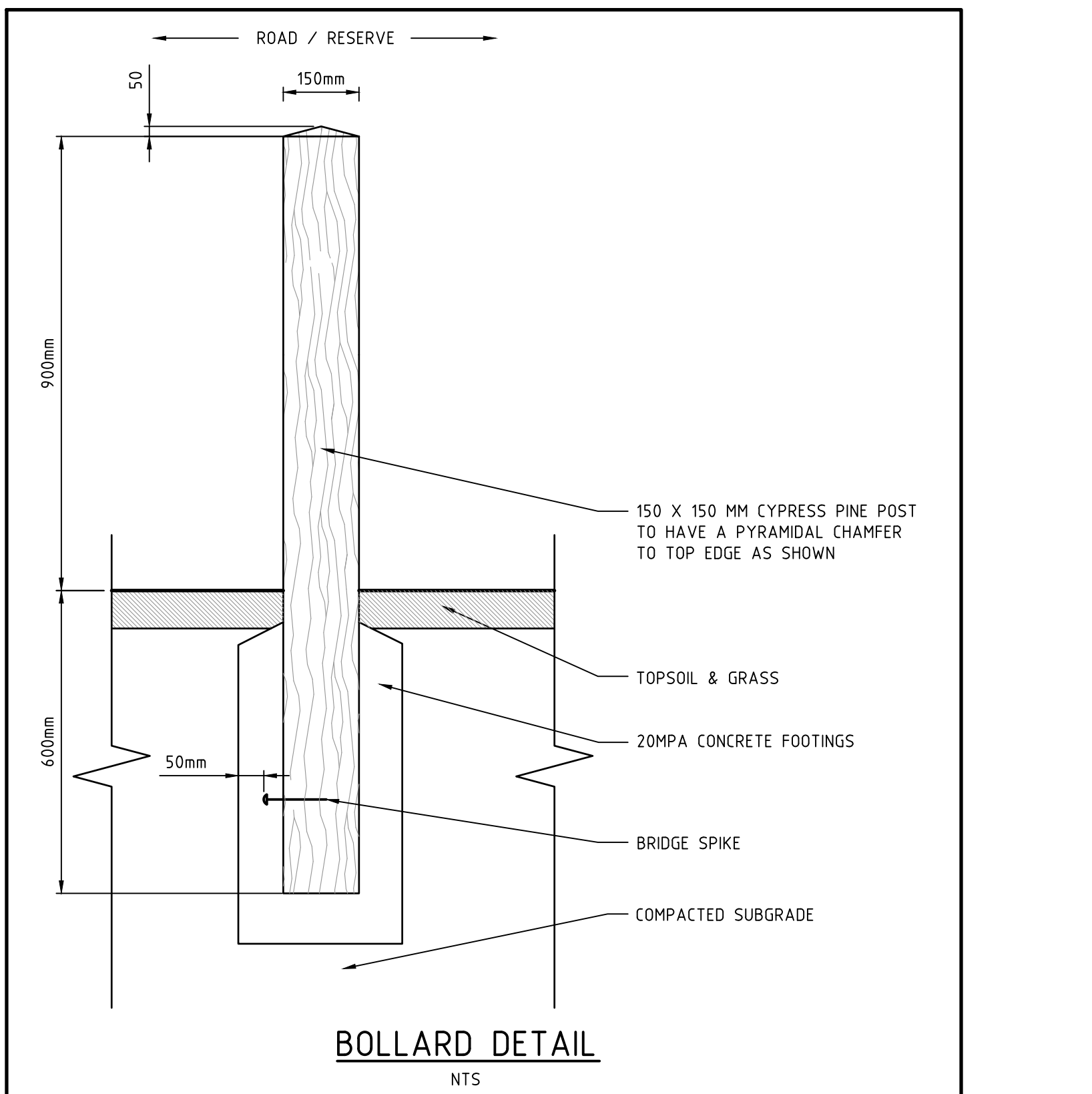
DRAWING NUMBER: M100611.15-C12 REVISION: AC



PAVEMENT COMPOSITION
ENERGY PLACE
300mm DEPTH
NTS



1. THE CAPPING LAYER TO EXTEND 0.5m BEYOND THE BACK OF KERB
2. PROOF ROLL TO BE CONDUCTED AT SUBGRADE LEVEL TO ENSURE CBR OF 15



1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
3. THE CONTRACTOR SHALL:
 - 3.1. COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
 - 3.2. NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO WORKS SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S SUPERVISING OFFICER.
7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHOUSES, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
9. WHEN ENGAGED IN BLASTING OPERATIONS THE CONTRACTOR SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT.
10. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE SURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
11. NO TOPSOIL TO BE REMOVED FROM SITE.
12. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
13. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
14. FILLING UNDER DRAVWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
15. CUT AND FILL BATTERS ARE NOT TO EXCEED 1 IN 6 UNLESS SHOWN OTHERWISE.
16. ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER JOINTED.
17. ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
18. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
19. PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
20. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
21. SUBSOIL DRAINS SHALL BE INSTALLED BEFORE OR BELOW ALL KERB AND CHANNEL AS PER INFRASTRUCTURE DESIGN MANUAL SD145.
22. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
23. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
24. NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
25. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TRENCHES. VEHICULAR CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER GREATER CITY OF GEELONG STANDARD DRAWING.
26. ALL PEDESTRIAN CROSSING TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
27. ALL STREET SIGNS TO BE IN ACCORDANCE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
28. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
29. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
30. AREAS OF SUNGUNS TO BE EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTILL THE END OF MAINTENANCE PERIOD.
31. ALL SUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FUL TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
32. CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE

AS CONSTRUCTED SIGNATURES

 27/3/17

SIGN DATE

CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTH-BANK BOULEVARD
SOUTH-BANK VIC 3008

Winslow 27/03/2017

SIGN DATE

WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3061

AC	05/05/17	AS CONSTRUCTED ISSUE
1	20/02/17	BOLLARD DETAIL ADDED
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
	DATE	COMMENTS

CLIENT



PROJECT	
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STAGE 15



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CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3006

T 03 9203 9000

TITLE

GENERAL NOTES & DETAILS

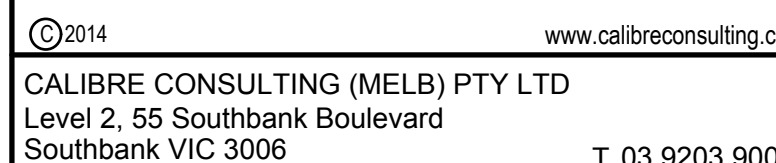
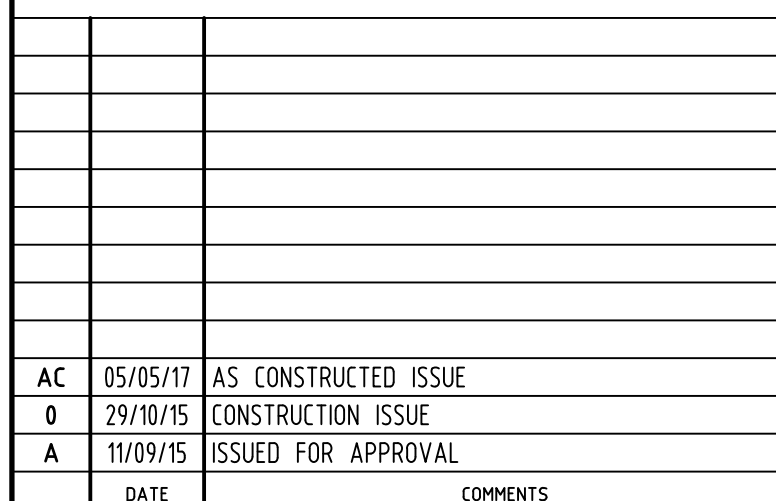
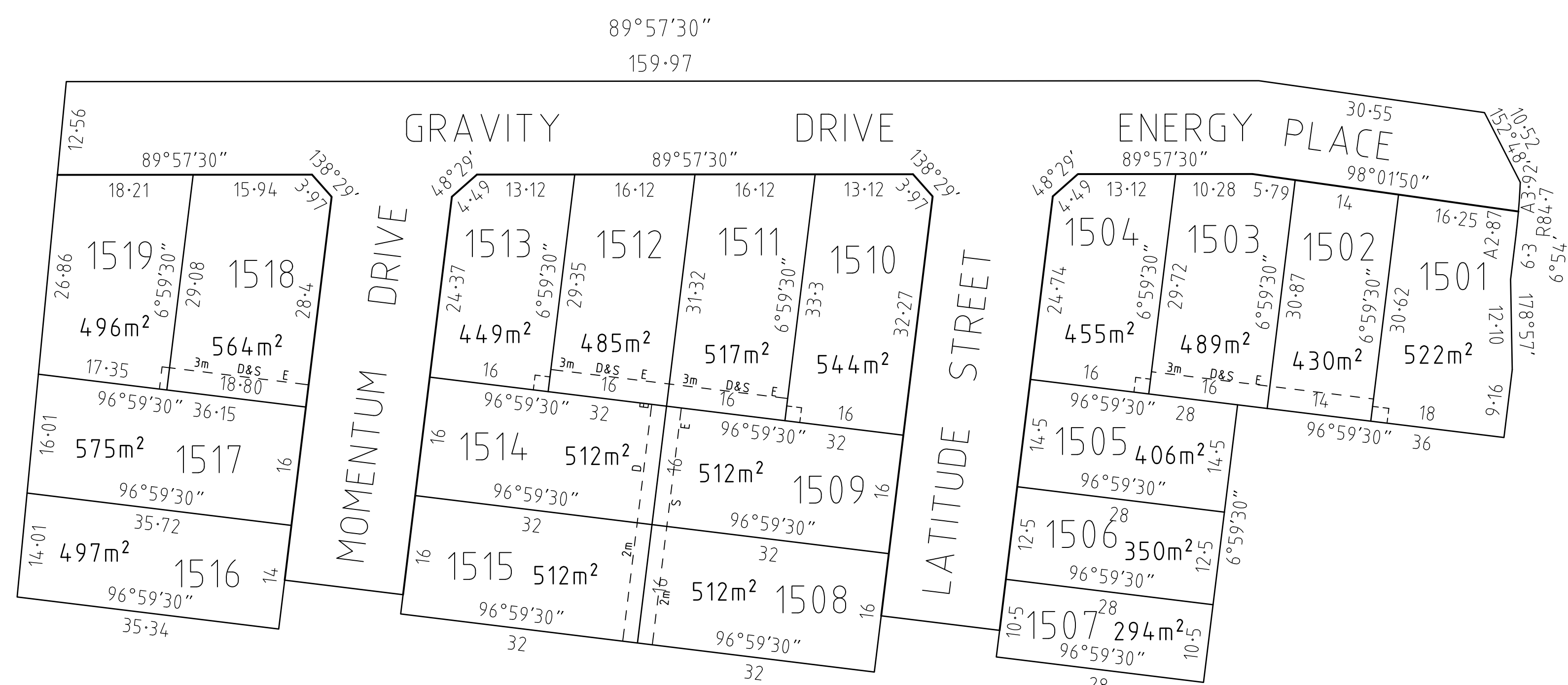
SCALE @ A1 NTS	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED	DATE
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M100611.15-C13

REVISION
AC

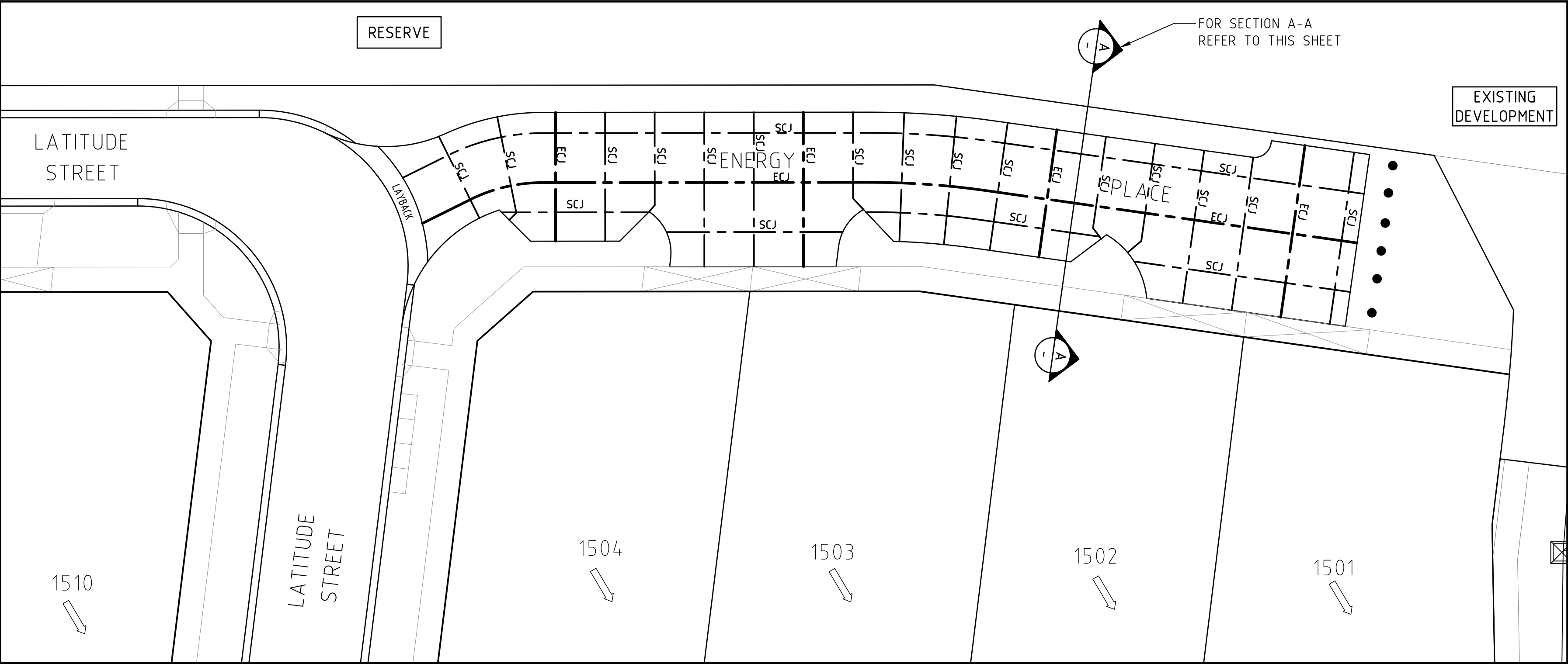


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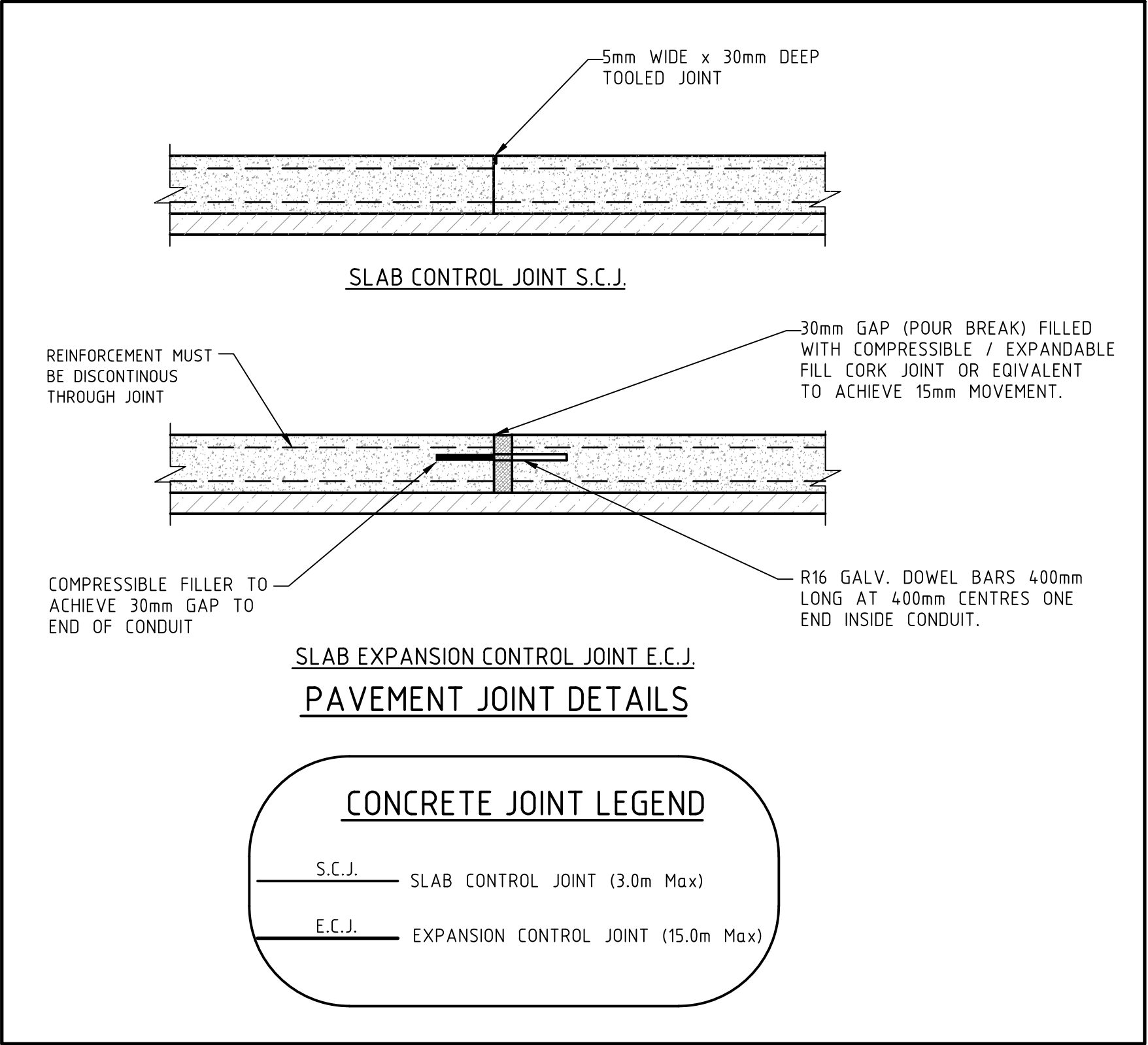
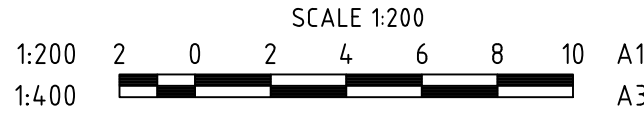
AS CONSTRUCTED

M100611.15-C14

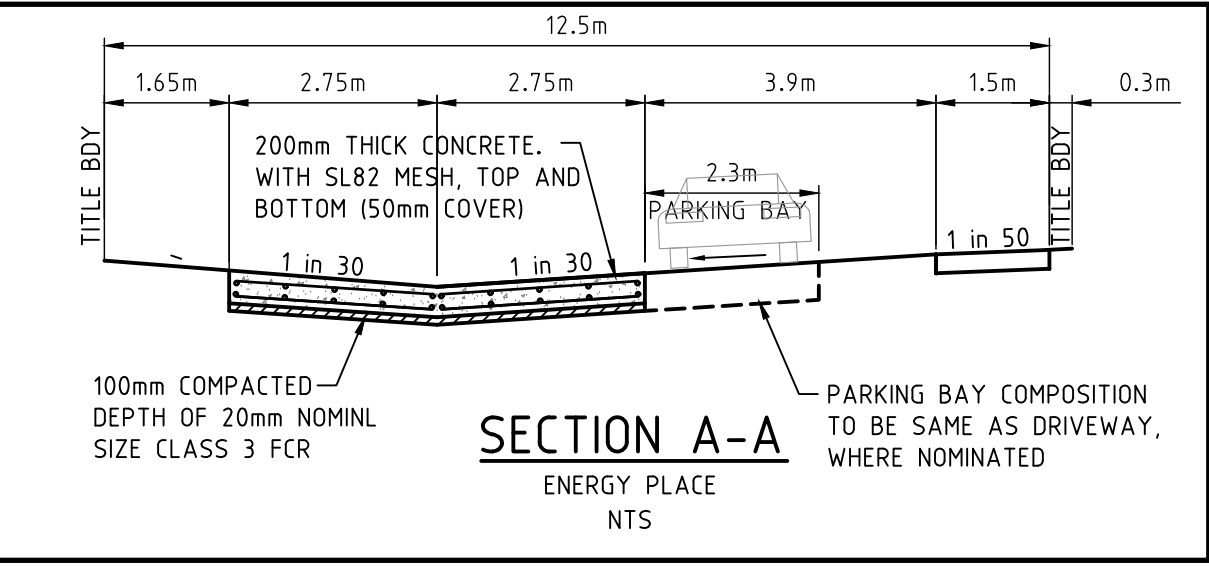
REVISION
AC



CONCRETE JOINTING LAYOUT PLAN



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.



AS CONSTRUCTED SIGNATURES

SIGN: *[Signature]* DATE: *27/3/17*

SIGN: *Winslow* DATE: *27/03/2017*

WINSLOW CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTH BANK BOULEVARD
SOUTH BANK VIC 3008

WINSLOW CONSTRUCTORS
50 Barry Road
CAMPBELLFIELD VIC 3081

LEGEND

- Electricity (Underground)
- Gas
- Optic
- Recycled Water
- Telstra
- Water
- Stormwater Drain, Pit and Property Inlet
- Swale Drain
- Sewer, Maintenance Structures and Property Connection
- House Drain
- Gas & Water Conduits
- Tactile Paver - Directional
- Tactile Paver - Hazard
- Existing Electricity (Underground)
- Existing Electricity (Overhead)
- Existing Gas
- Existing Telstra
- Existing Water
- Existing Stormwater Drain
- Existing Sewer
- Existing House Drain
- Existing Tree to Remain
- Existing Tree to be Removed
- Existing Swale Drain
- Existing Surface Level
- Finished Building Line Level
- Finished Ridge Line Level
- Top of Retaining Wall
- Bottom of Retaining Wall
- Retaining Wall
- Intersection Threshold Treatment
- Structural Fill > 200mm Deep
- Ex. Structural Fill > 200mm Deep
- Proposed Driveway
- Allotment to be graded evenly in direction of fall to levels indicated
- Direction of Fall
- Overland Flow
- Permanent Survey Mark
- Temporary Bench Mark
- Concrete Edge Strip with Subsoil Drain underneath "No Road" sign and Barrier
- Building Envelope
- Limit of Works

AC	05/05/17	AS CONSTRUCTED ISSUE
0	29/10/15	CONSTRUCTION ISSUE
A	11/09/15	ISSUED FOR APPROVAL
	DATE	COMMENTS

CLIENT

villawood
properties
COMMUNITIES DESIGNED FOR LIVING

PROJECT

ARMSTRONG
MT DUNEED

STAGE 15

calibre
CONSULTING

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CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3008 T 03 9203 9000

CONCRETE JOINTING PLAN AND DETAILS

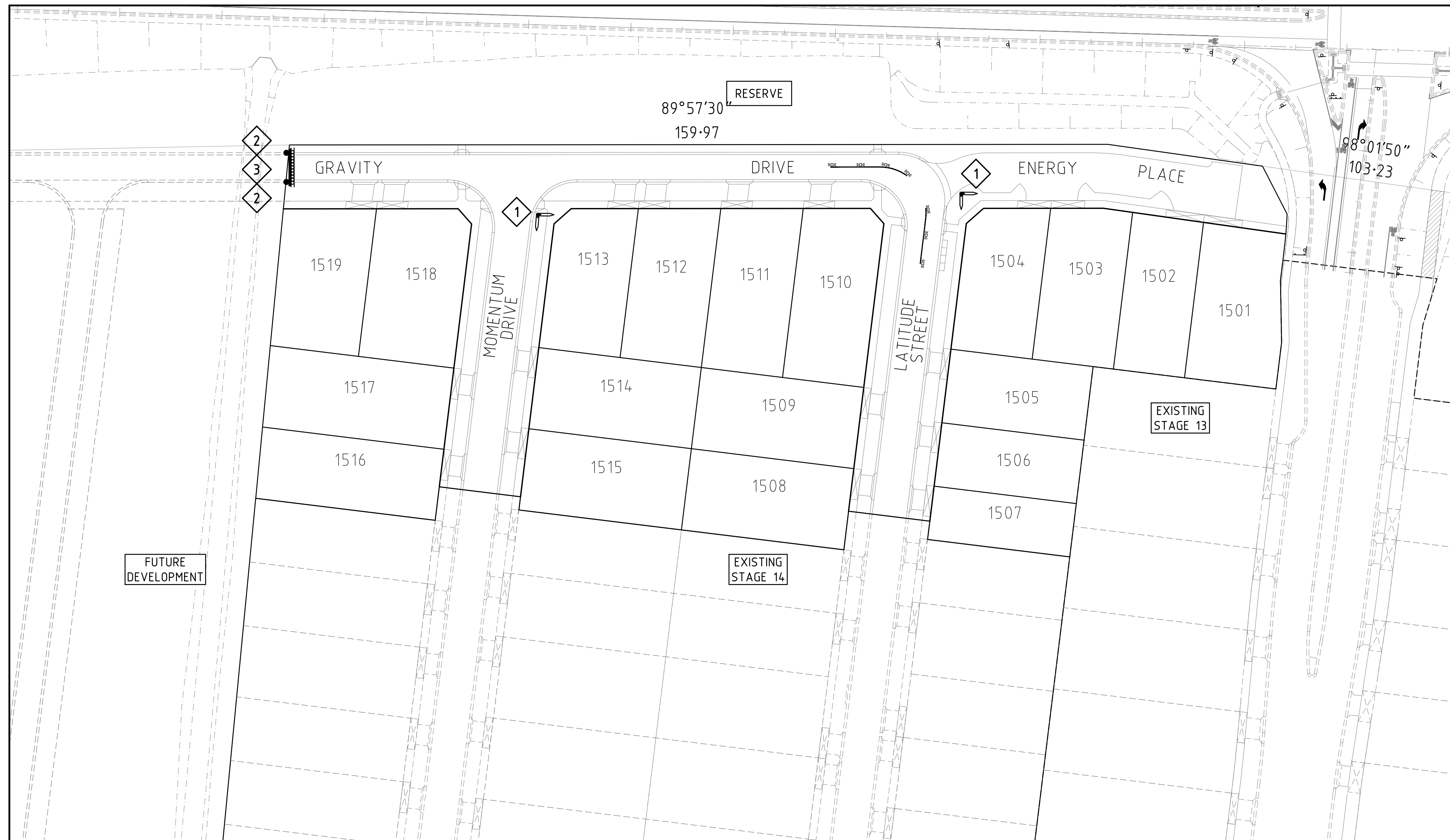
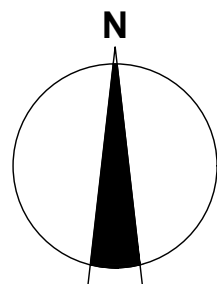
SCALE @ A1 AS SHOWN	DRAWN L.CHAPPE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

AS CONSTRUCTED

SIGNED: _____ DATE: _____

DRAWING NUMBER: **M100611.15-C15** REVISION: **AC**

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.



SIGN CALIBRE CONSULTING (MELB) PTY LTD
LEVEL 2, 55 SOUTHBAK BOULEVARD
SOUTHBANK VIC 3008

DATE

Winslow 27/03/2017

SIGN WINSLOW CONSTRUCTORS
50 Barry Road
CAMPELLEFIELD VIC 3061

DATE

SIGN	
STREET SIGN	
D4-5A	
T2-4A	

	Electricity (Underground)
	Gas
	Telstra
	Water
	Stormwater Drain, Pit and Property Inlet
	Sewer
	Swale Drain
	Sinks, Maintenance Structures and Property Connection
	House Drain
	Gas & Water Conduits
	Tactile Paver - Directional
	Tactile Paver - Hazard
	Existing Electricity (Underground)
	Existing Electricity (Overhead)
	Existing Gas
	Existing Telstra
	Existing Water
	Existing Stormwater Drain
	Existing Sewer
	Existing House Drain
	Existing Tree to Remain
	Existing Tree to be Removed
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	Finished Building Line Level
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	Direction of Fall
	Overland Flow
	Permanent Survey Mark
	Temporary Bench Mark
	Concrete Edge Strip with Subsoil Drain underneath "No Road" sign and Barrier
	Building Envelope
	Limit of Works

[illegible]

CLIENT



PROJECT



STAGE 15



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CALIBRE CONSULTING (MELB) PTY LTD
Level 2, 55 Southbank Boulevard
Southbank VIC 3006
T 03 9203 9000

TITLE

SCALE @ A1 1:500	DRAWN L.CHAPPLE	DESIGNED R.KOZUL
PROJECT ENGINEER J.CONSIGLIO	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE 11/09/15

SIGNED	DATE
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DRAWING NUMBER

M100611.15-C16

	REVISION
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AC

NOTES:

BLADES ON ALL DOUBLE AND TRIPLE STREET SIGNS, TO BE INSTALLED ONE UNDER THE OTHER

LINEMARKING & SIGNAGE NOTES:

1. ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
2. LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION.
3. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
4. LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.
5. STREET LIGHTING TO BE IN ACCORDANCE WITH APPROVED PUBLIC LIGHTING PLAN



A.C.N. 109 448 982