

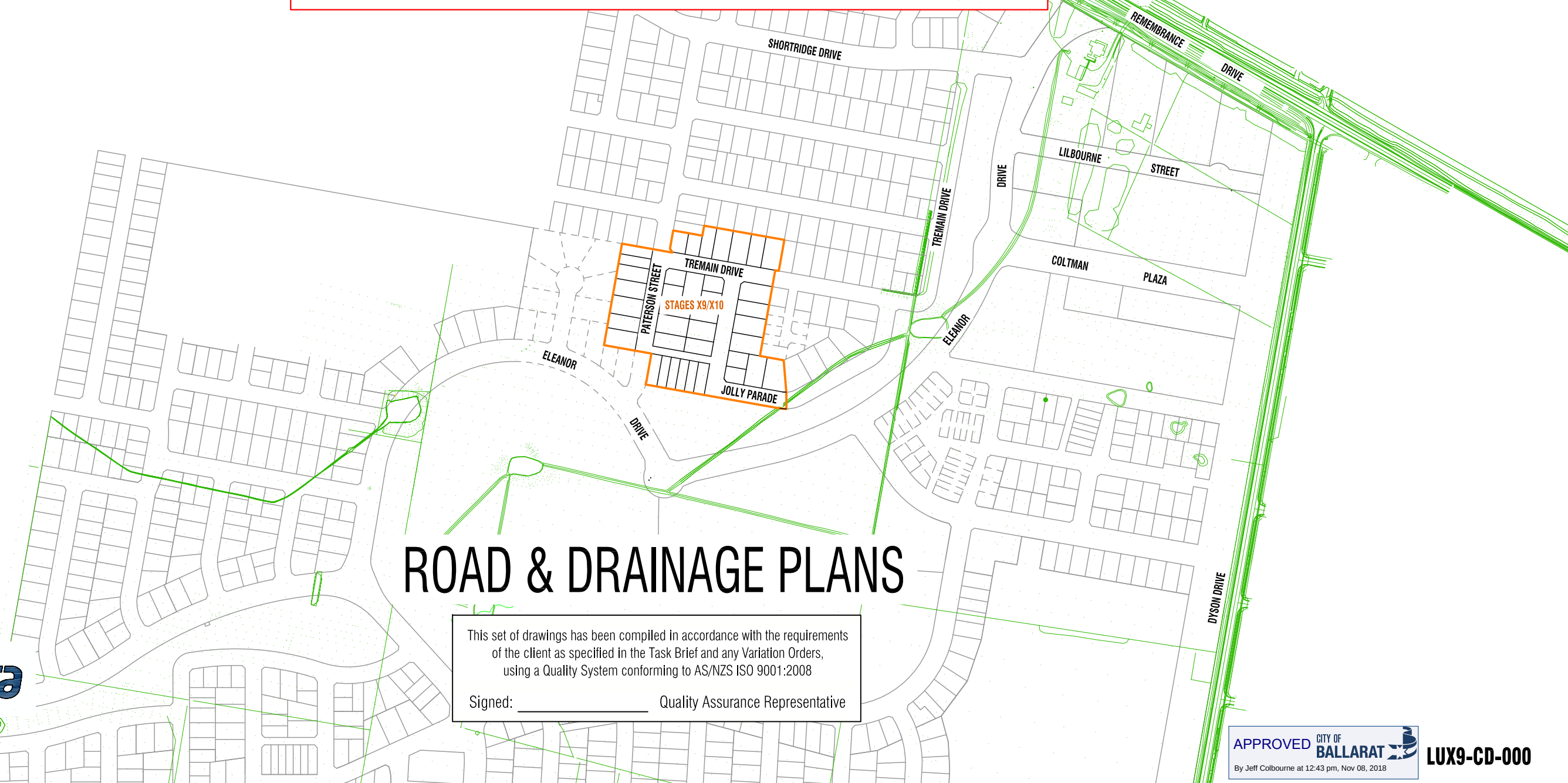
LUCAS

RESIDENTIAL DEVELOPMENT

LUCAS

STAGES X9/X10

CONTROLLED COPY No. _____



ROAD & DRAINAGE PLANS

This set of drawings has been compiled in accordance with the requirements of the client as specified in the Task Brief and any Variation Orders, using a Quality System conforming to AS/NZS ISO 9001:2008

Signed: _____ Quality Assurance Representative

TABLE OF CONTENTS

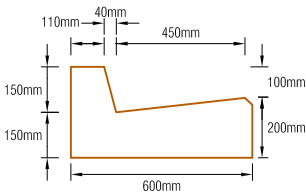
Sheet No.	Drawing No.	Description
1	LUX9-CD-001	TABLE OF CONTENTS
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3	LUX9-CD-003	GEOMETRIC PLAN
4	LUX9-CD-004	INTERSECTION PLANS
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6	LUX9-CD-006	DRAINAGE PROFILES
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8	LUX9-CD-008	LONGITUDINAL SECTIONS
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12	LUX9-CD-012	CROSS SECTIONS
13	LUX9-CD-013	CROSS SECTIONS
14	LUX9-CD-014	CROSS SECTIONS
15	LUX9-CD-015	CROSS SECTIONS
16	LUX9-CD-016	CROSS SECTIONS

STANDARD DRAWINGS

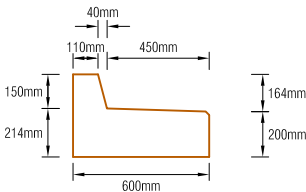
NUMBER	DESCRIPTION
SD-D2-1	SUBSOIL DRAINAGE BEHIND KERB & CHANNEL
SD-D8-1	TRENCH DETAILS FOR REINFORCED CONCRETE PIPES
SD-D8-2	AUTHORITY TRENCH DETAILS
SD-D9	HOUSE CONNECTION DRAIN TO "MAIN OUTFALL DRAIN"
SD-K1	STANDARD KERB SECTIONS
SD-K3-2	STANDARD CONCRETE FOOTPATH SECTION FOR SUBDIVISIONS
SD-P1-1	PRECAST SIDE ENTRY PIT CONCRETE COVER - 900mm INLET
SD-P3-1	PRECAST UNHAUNCHED PITS - CONCRETE COVER
SD-P4-1	PRECAST HAUNCHED PITS - CONCRETE COVER
SD-P10-1	PRECAST JUNCTION PIT - CONCRETE COVER
SD-R2	PAVEMENT JOIN LAPPING BASE LAYER
VICROADS	
SD-5301	PLAIN CONCRETE PAVEMENT - TRANSVERSE JOINT AND ISOLATED REINFORCEMENT DETAIL
SD-5401	CONCRETE PAVEMENT - ALL TYPES, EXPANSION JOINT DETAIL

GENERAL NOTES

- These drawings are to be read in conjunction with the City of Ballarat standard drawings and the Infrastructure Design Manual
- Chainages (Ch) in all roads are computed along the centreline, and offsets are to lip of kerb unless otherwise shown

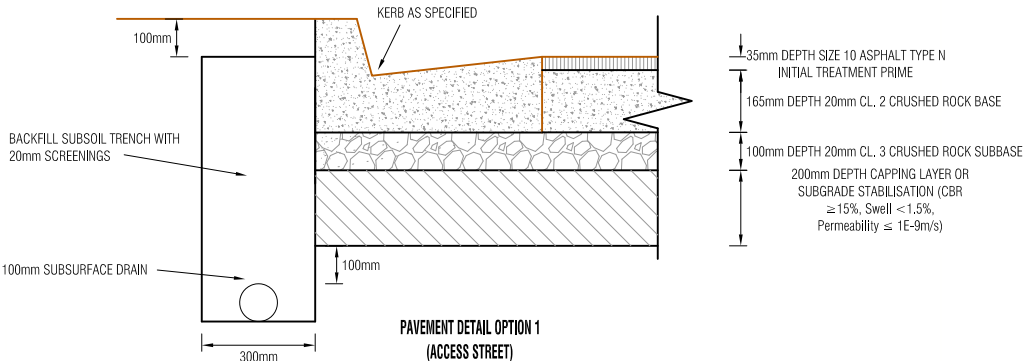


BCC2 KERB & CHANNEL



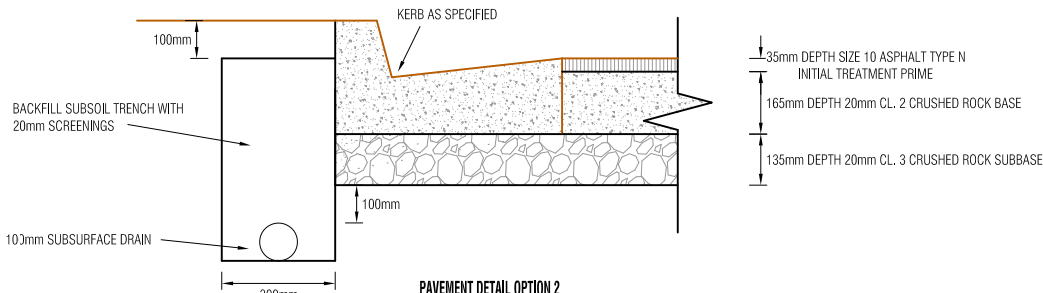
BCC3 KERB & CHANNEL

KERB DETAILS



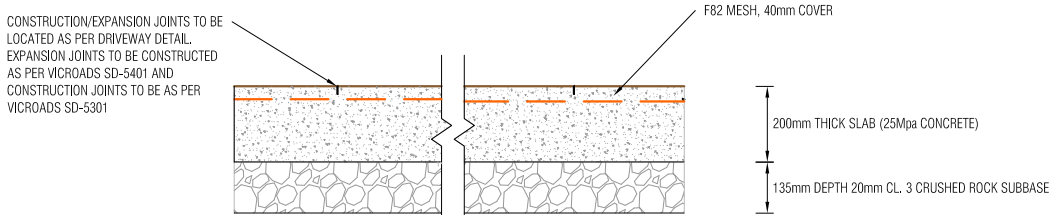
PAVEMENT DETAIL OPTION 1 (ACCESS STREET)

ALL PAVEMENT LAYERS ARE TO BE CONSTRUCTED AS SPECIFIED. SUBGRADE TO BE EVALUATED IN CONSULTATION WITH SUPERINTENDENT AND CITY OF BALLARAT TO DETERMINE APPROPRIATE PAVEMENT OPTION



PAVEMENT DETAIL OPTION 2 (ACCESS STREET)

ALL PAVEMENT LAYERS ARE TO BE CONSTRUCTED AS SPECIFIED. SUBGRADE TO BE EVALUATED IN CONSULTATION WITH SUPERINTENDENT AND CITY OF BALLARAT TO DETERMINE APPROPRIATE PAVEMENT OPTION



CONCRETE PAVEMENT

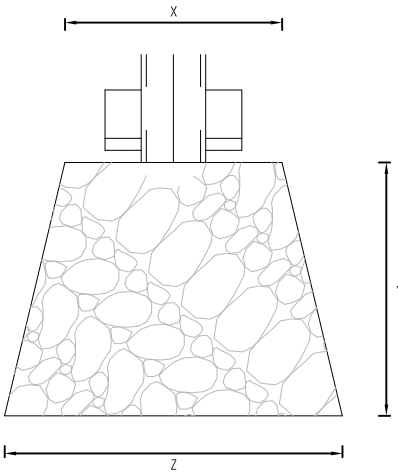
(TOTAL PAVEMENT THICKNESS = 335mm)

SERVICE SCHEDULE

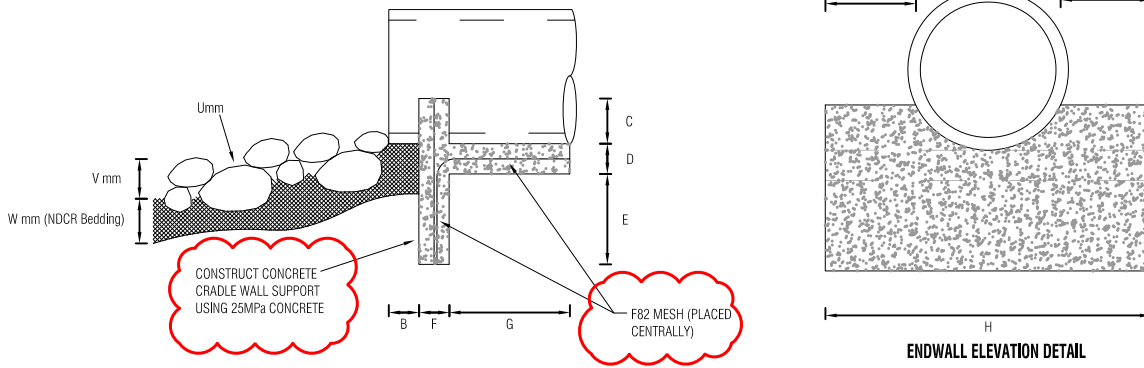
STREET	CLASS	CARRIAGEWAY	ROAD RESERVE	SERVICE (OFFSET & SIDE)			
		WIDTH	WIDTH	ELEC.	TEL.	WATER	GAS
JOLLY PARADE (CH 3772.562 TO CH 3785.324)	ACCESS STREET	7.60	18.00	3.7N	3.2N	2.7N	2.1N
JOLLY PARADE (CH 3785.324 TO CH 3850.000)	ACCESS STREET	7.60	18.00	3.7N	3.2N	2.7S	2.1S
BROWNFIELD DRIVE	ACCESS STREET	7.60	18.00	2.7E	2.2E	2.7W	2.1W
TREMAIN DRIVE	ACCESS STREET	7.60	18.00	2.7S	2.2S	2.7N	2.1N
FULLER LANE	ACCESS PLACE	5.50	8.25	-	-	-	-

ROCK BEACHING DETAILS						
EW No.	U	V	W	X	Y	Z
EW X154	200	350	100	2,300	4,950	4,280
EW X190	200	350	100	1,000	1,200	1,400
EW X195*	200	350	100	1,000	5,600	1,400

*ROCK BEACH BATTER TO TOE

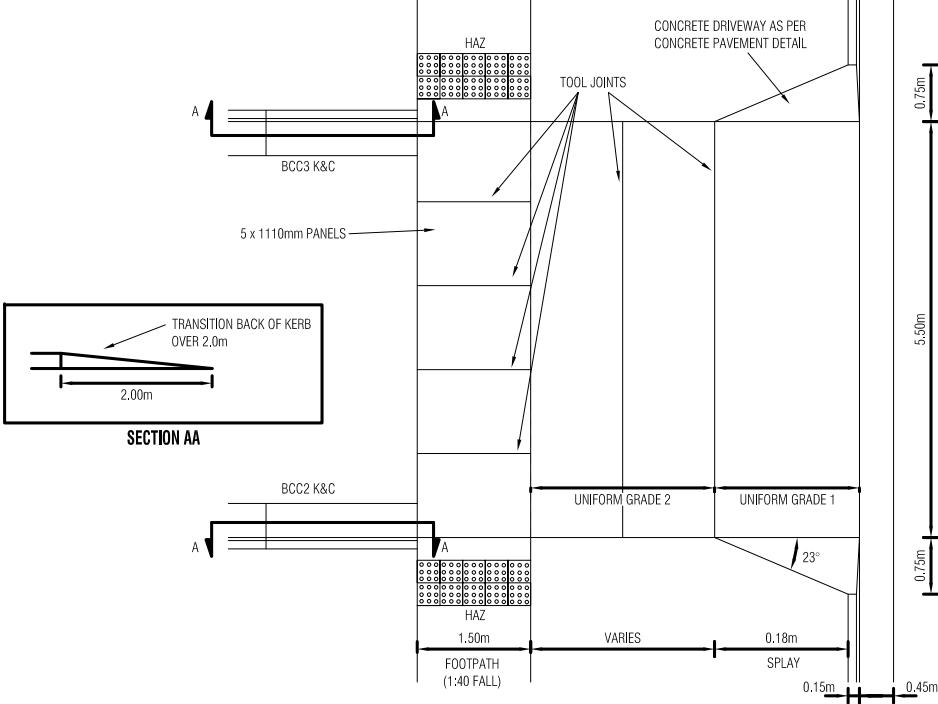


CONCRETE CRADLE DETAILS								
PIPE DIA	B	C	D	E	F	G	H	J
300 TO 450	100	150	100	300	100	400	1080	300
525 TO 900	100	300	100	300	100	400	1630	300



ENDWALL ELEVATION DETAIL

DRIVEWAY DETAIL



SECTION AA

General Notes

- OFFSETS SHOWN FOR ELECTRICITY AND COMMUNICATIONS ARE NOMINAL ONLY. POWERCOR AND NBN STANDARDS FOR MINIMUM CLEARANCE AND COVER APPLY.

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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
TABLE OF CONTENTS

Status
APPROVED
ISSUED FOR CONSTRUCTION

Designer Checker Verified
D.Georgalas T.Oldaker
Scale (A1) Scale (A3)
HOR NOT TO SCALE
VER

Sheet Number
1 of 16

Drawing Number Revision
LUX9-CD-001 B

TREMAIN DRIVE DESIGN LINE		
CHAINAGE	EASTING	NORTHING
2230.382	745660.781	5841133.099
2240.000	745651.311	5841134.782
2250.000	745641.466	5841136.532
2260.000	745631.620	5841138.281
2270.000	745621.774	5841140.031
2280.000	745611.928	5841141.781
2290.000	745602.083	5841143.531
2300.000	745592.237	5841145.280
2310.000	745582.391	5841147.030
2320.000	745572.546	5841148.780
2330.000	745562.700	5841150.530
2340.000	745552.854	5841152.279
2350.000	745543.008	5841154.029
2355.382	745537.709	5841154.971

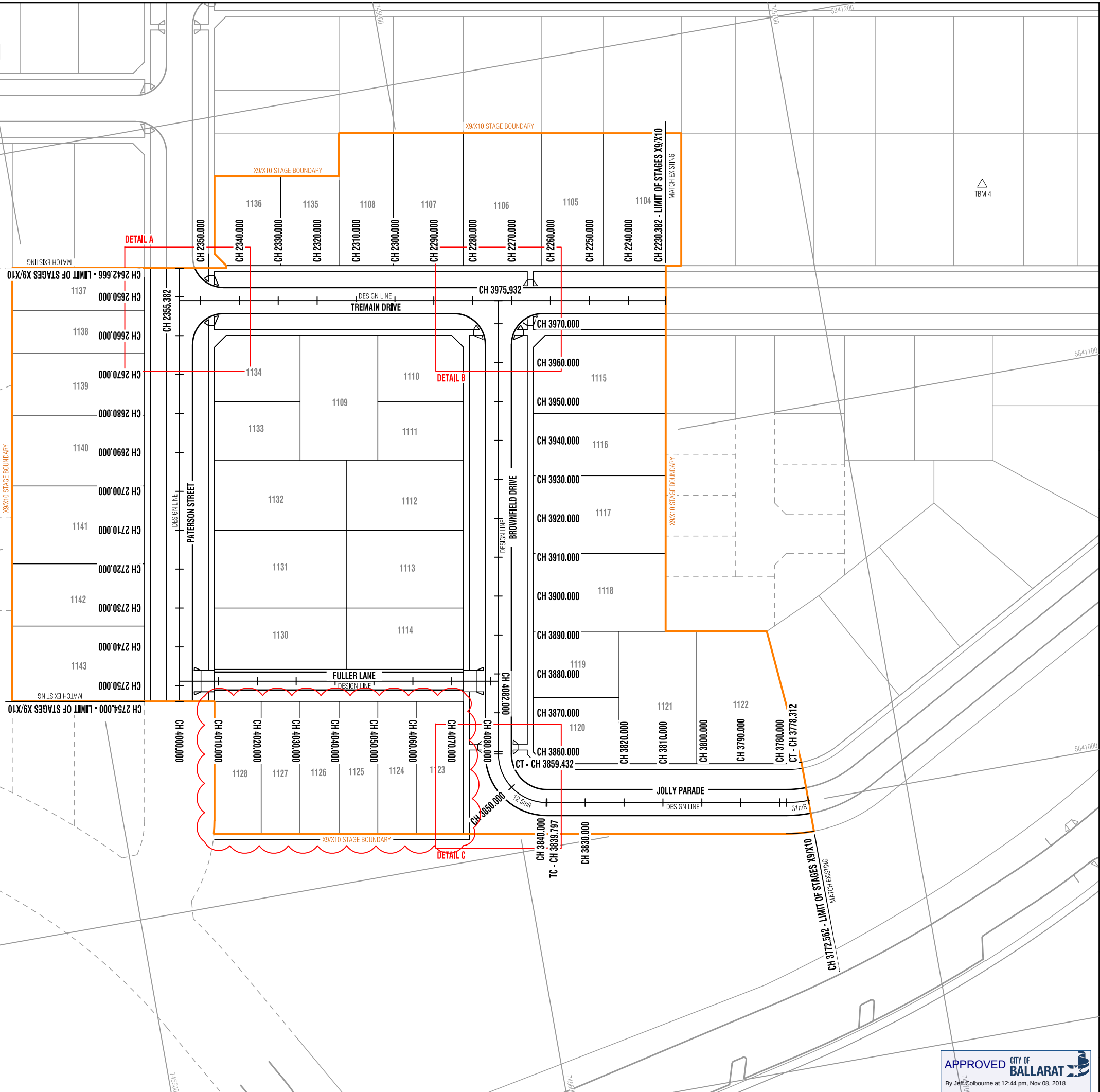
BROWNFIELD DRIVE DESIGN LINE		
CHAINAGE	EASTING	NORTHING
3850.000	745599.902	5841016.897
3859.432	745598.060	5841025.920
3860.000	745598.159	5841026.480
3870.000	745599.909	5841036.326
3878.116	745601.329	5841044.316
3880.000	745601.659	5841046.171
3890.000	745603.408	5841056.017
3900.000	745605.158	5841065.863
3910.000	745606.908	5841075.708
3920.000	745608.658	5841085.554
3930.000	745610.407	5841095.400
3940.000	745612.157	5841105.246
3945.000	745613.032	5841110.169
3950.000	745613.907	5841115.091
3960.000	745615.657	5841124.937
3970.000	745617.406	5841134.783
3975.932	745618.444	5841140.623

PATERSON STREET DESIGN LINE		
CHAINAGE	EASTING	NORTHING
2642.666	745539.168	5841163.176
2651.000	745537.709	5841154.971
2660.000	745536.135	5841146.110
2670.000	745534.385	5841136.264
2680.000	745532.635	5841126.418
2690.000	745530.885	5841116.573
2700.000	745529.136	5841106.727
2710.000	745527.386	5841096.881
2720.000	745525.636	5841087.035
2730.000	745523.886	5841077.190
2740.000	745522.136	5841067.344
2748.816	745520.594	5841058.664
2750.000	745520.387	5841057.498
2754.000	745519.687	5841053.560

FULLER LANE DESIGN LINE		
CHAINAGE	EASTING	NORTHING
4000.000	745520.594	5841058.664
4010.000	745530.440	5841056.914
4020.000	745540.285	5841055.164
4030.000	745550.131	5841053.415
4040.000	745559.977	5841051.665
4050.000	745569.823	5841049.915
4060.000	745579.668	5841048.165
4070.000	745589.514	5841046.416
4080.000	745599.360	5841044.666
4082.000	745601.329	5841044.316

JOLLY PARADE DESIGN LINE		
CHAINAGE	EASTING	NORTHING
3772.562	745674.438	5841000.191
3778.312	745668.716	5841000.668
3780.000	745667.054	5841000.963
3790.000	745657.208	5841002.713
3800.000	745647.362	5841004.463
3810.000	745637.517	5841006.212
3820.000	745627.671	5841007.962
3830.000	745617.825	5841009.712
3839.797	745608.180	5841011.426
3840.000	745607.980	5841011.463
3850.000	745599.902	5841016.897

SURVEY MARK DETAILS			
STATION	EASTING	NORTHING	RL
TBM1	745355.747	5841129.251	446.647
TBM2	745450.595	5841063.986	445.531
TBM3	745699.291	5840996.818	445.344
TBM4	745746.209	5841148.608	446.946
TBM5	745774.682	5841222.975	447.477
TBM6	745630.105	5841252.345	448.148
TBM7	745503.065	5841317.904	449.427
TBM8	745471.985	5841431.556	450.396
TBM9	745360.068	5841194.416	447.830
TBM10	745323.682	5841203.377	447.640



General Notes

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Project
**LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic**

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
GEOMETRIC PLAN

Status
**APPROVED
ISSUED FOR CONSTRUCTION**

Designer
D.Georgalas
Scale (A1) 1:500
HOR 0 5 10 15 20 25
VER

Checker
T.Oldaker
Scale (A3) 1:1000

Verified

Sheet Number

3 of 16



APPROVED CITY OF
BALLARAT
By Jeff Colbourne at 12:44 pm, Nov 08, 2018

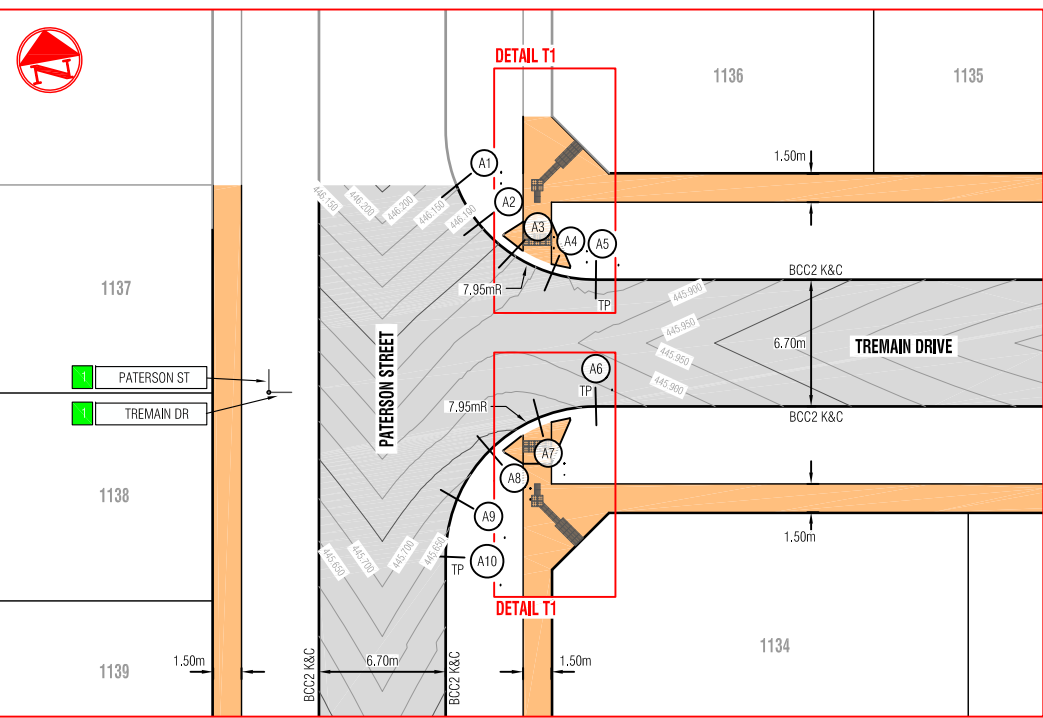
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Revision
B

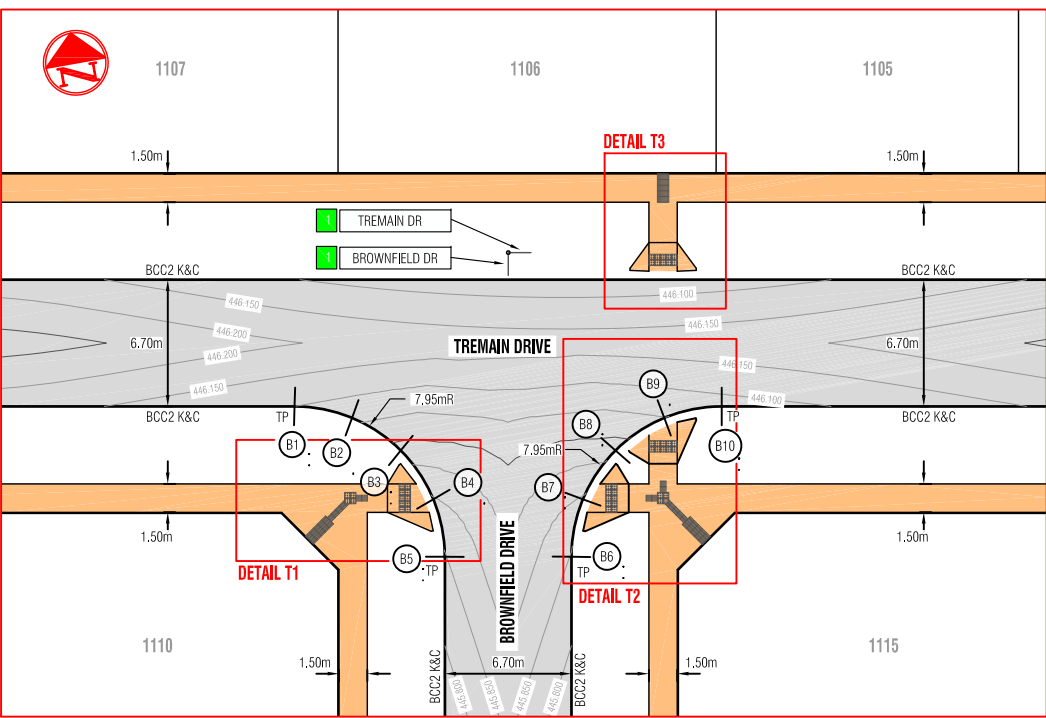
PAVEMENT LEGEND		
	ASPHALT	
	PLAIN FOOTPATH	
	FOOTPATH TOOLING	

SIGN LEGEND		
		ROAD NAME
	D4-1-3	

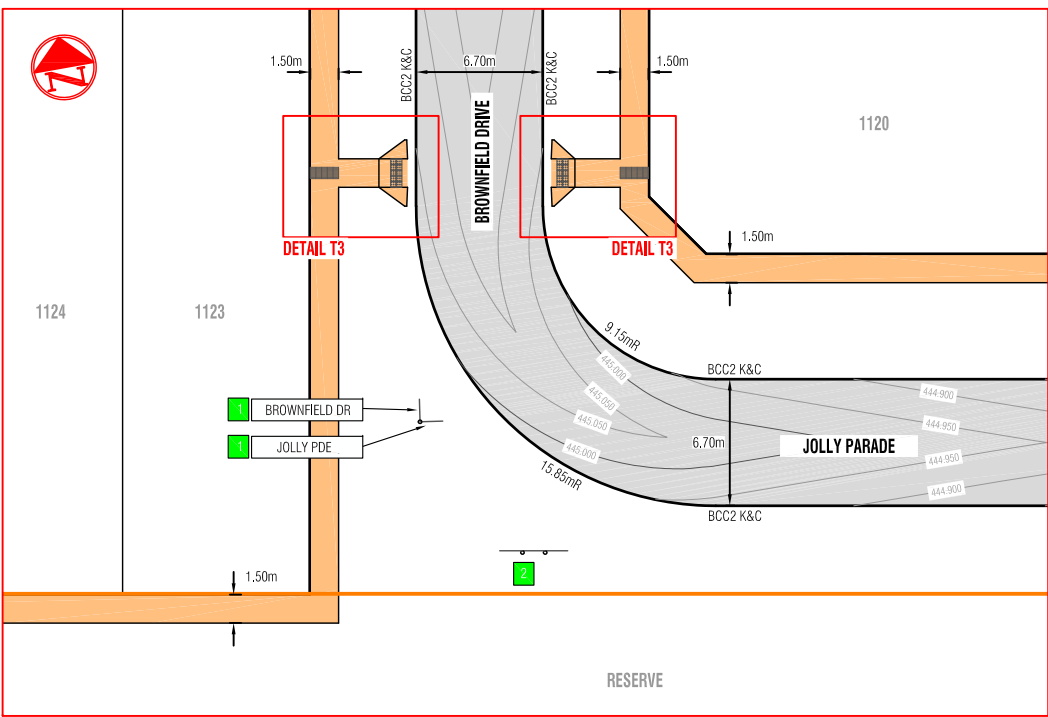
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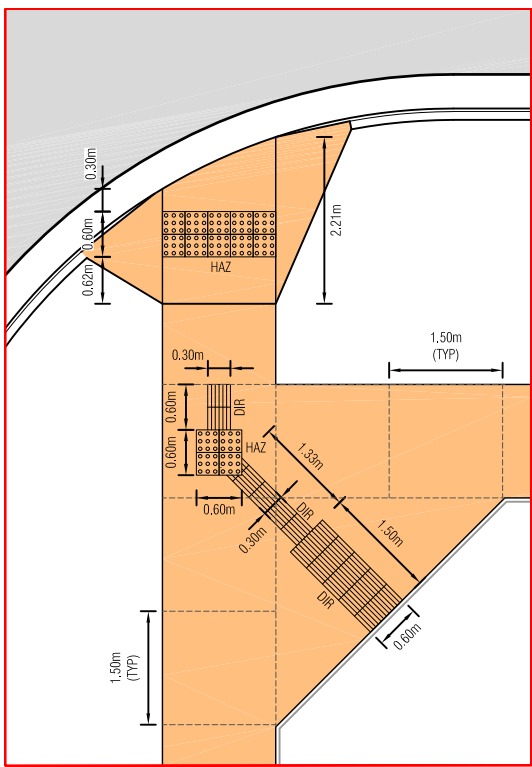
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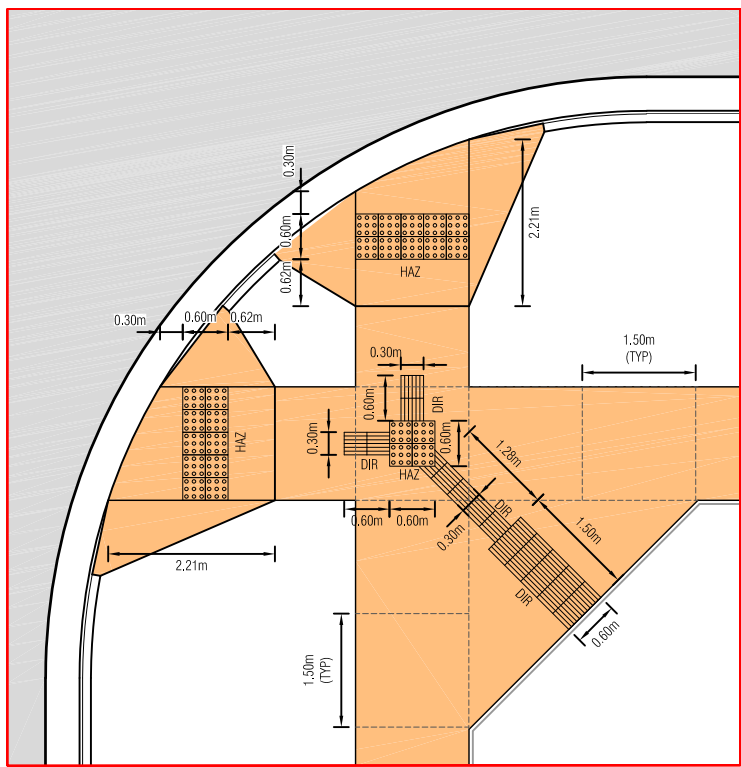
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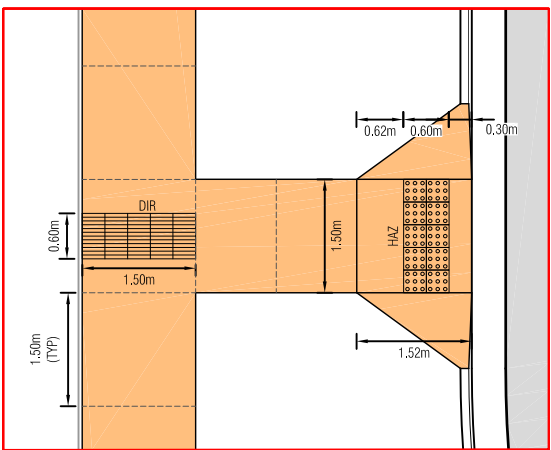
DETAIL T1



DETAIL T2



DETAIL T3



SETOUT COORDINATES			
POINT	EASTING	NORTHING	RL
A1	745543.031	5841162.490	446.157
A2	745543.849	5841160.283	446.065
A3	745545.277	5841158.413	445.961
A4	745547.191	5841157.042	445.872
A5	745549.421	5841156.292	445.832
A6	745548.249	5841149.695	445.813
A7	745545.148	5841149.632	445.770
A8	745542.307	5841148.386	445.726
A9	745540.159	5841146.149	445.680
A10	745539.030	5841143.259	445.625

NOTE: SETOUT POINTS ARE TO LIP OF KERB.

SETOUT COORDINATES			
POINT	EASTING	NORTHING	RL
B1	745606.732	5841139.302	446.100
B2	745609.622	5841138.174	446.062
B3	745611.860	5841136.026	445.981
B4	745613.105	5841133.185	445.896
B5	745613.169	5841130.083	445.847
B6	745619.765	5841128.911	445.847
B7	745620.894	5841131.801	445.895
B8	745623.042	5841134.039	445.974
B9	745625.883	5841135.284	446.049
B10	745628.984	5841135.347	446.080

NOTE: SETOUT POINTS ARE TO LIP OF KERB.

APPROVED CITY OF BALLARAT
By Jeff Colbourne at 7:12 am, Sep 04, 2018

- General Notes
- LANE WIDTHS AND RADII ARE TO LIP OF KERB
 - CONTOURS SHOWN AT 50mm INTERVALS

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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
Lucas, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
INTERSECTION PLANS

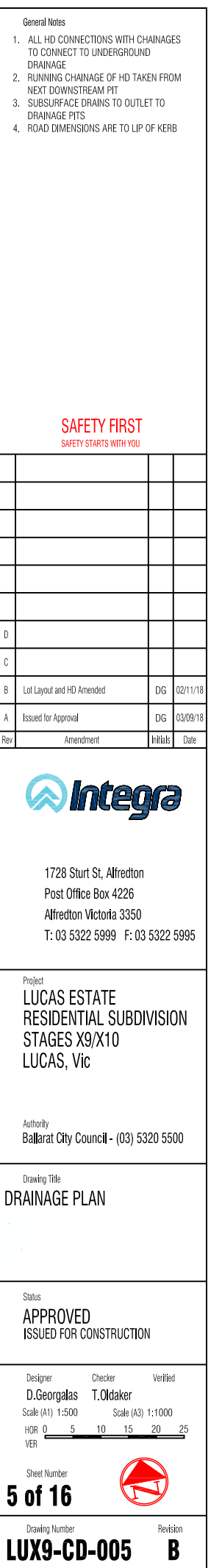
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Designer
D.Georgalas
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VER
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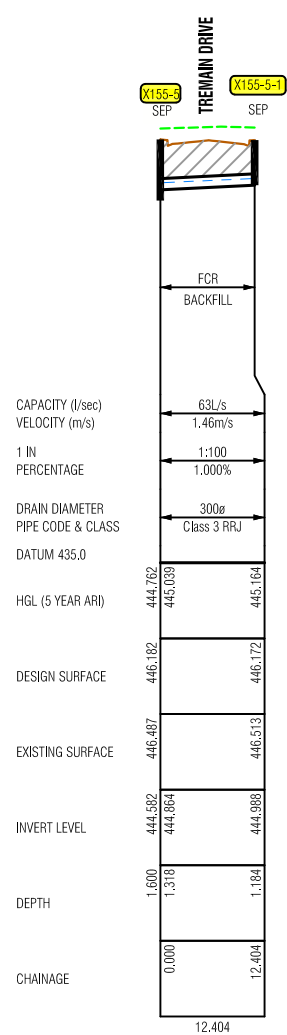
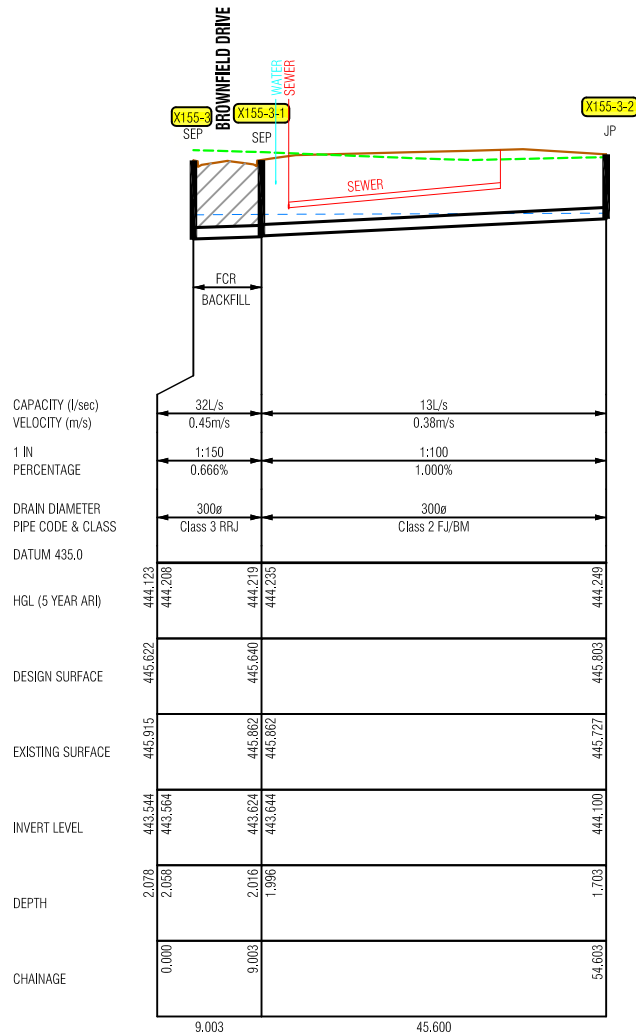
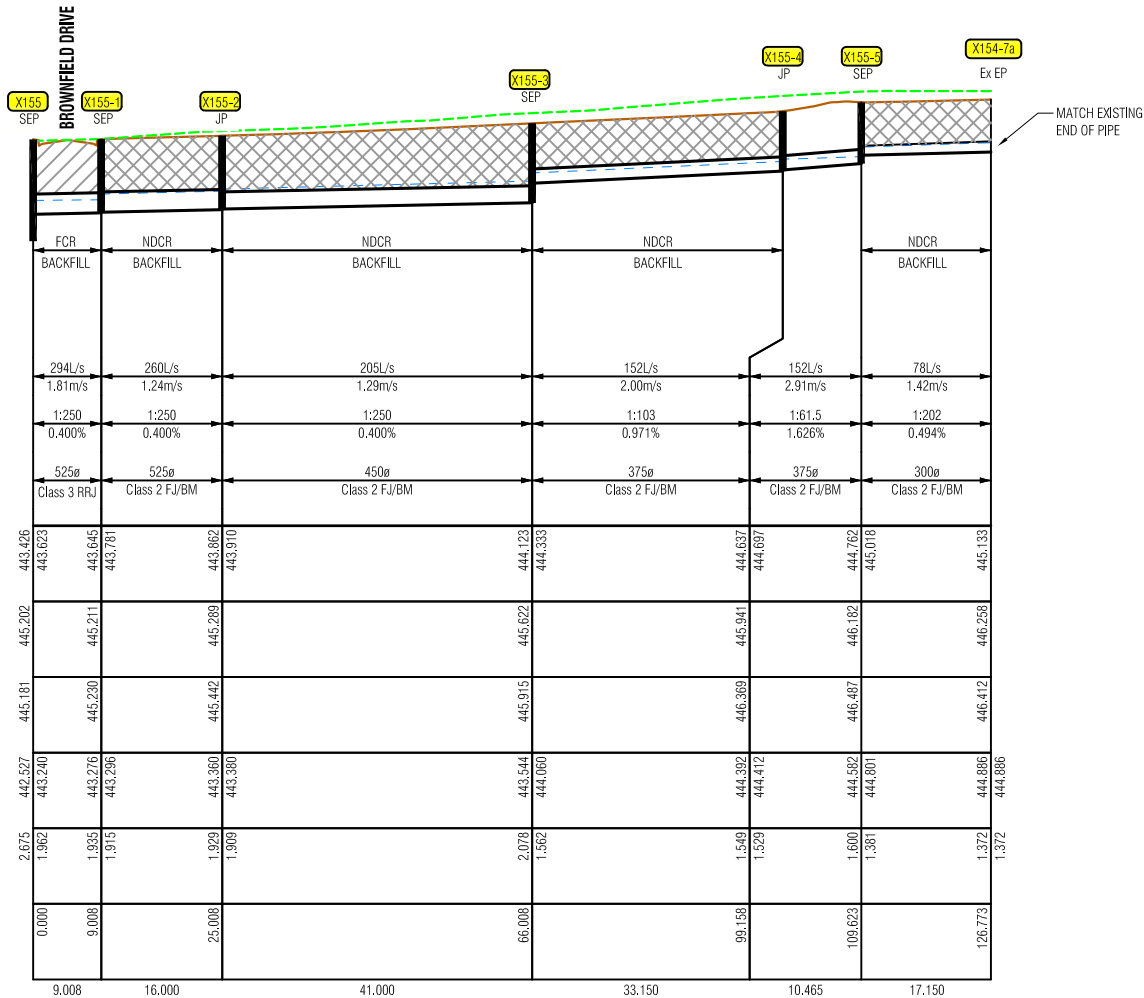
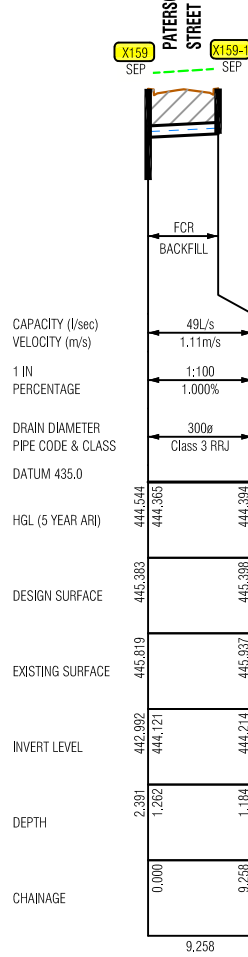
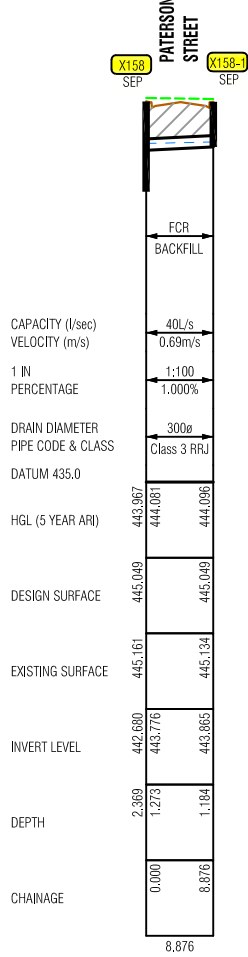
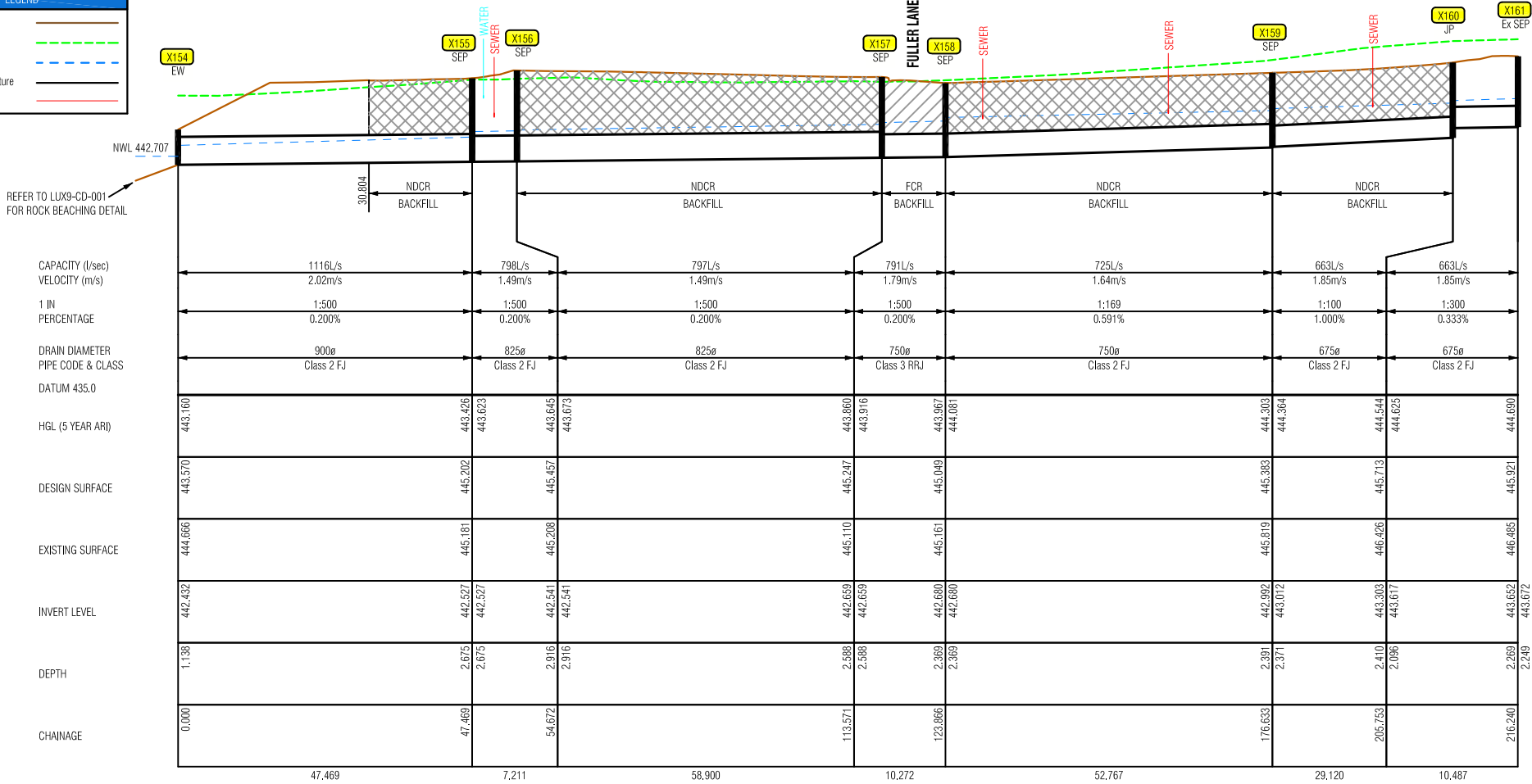
4 of 16

Drawing Number
LUX9-CD-004
Revision
A



PIT	TYPE	PIT DIMENSIONS			PIT LEVELS		PIT LOCATION		FACE BRG	COMMENTS
No.		L	W	D	INVERT	TOP	EASTING	NORTHING	DEG MIN	
X190	EW	-	-	-	443.553	-	745659.869	5840987.295	100°04'	REFER TO LUX9-CD-001
X191	SEP	900	900	1.291	443.843	445.134	745661.977	5840997.396	280°04'	PROVIDE STEP IRONS
X192	SEP	900	750	1.184	443.950	445.134	745663.504	5841005.987	100°04'	-
X195	EW	-	-	-	443.435	-	745631.321	5840992.364	100°04'	REFER TO LUX9-CD-001
X196	SEP	900	900	1.291	443.641	444.932	745633.275	5841002.497	280°04'	PROVIDE STEP IRONS
X197	SEP	900	750	1.184	443.748	444.932	745634.801	5841011.088	100°04'	-

LEGEND	
Design Surface	
Existing Surface	
5 Year HGL	
Drainage Infrastructure	
Proposed Sewer	



General Notes

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Rev	Amendment	Initials	Date
A	Issued for Approval	DG	03/09/18



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Project
**LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic**

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
DRAINAGE PROFILES

Status
**APPROVED
ISSUED FOR CONSTRUCTION**

Designer
D.Georgalas

Checker
T.Oldaker

Verified

Scale (A1): 1:100H, 1:50V Scale (A3): 1:1000H, 1:200V

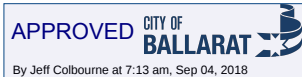
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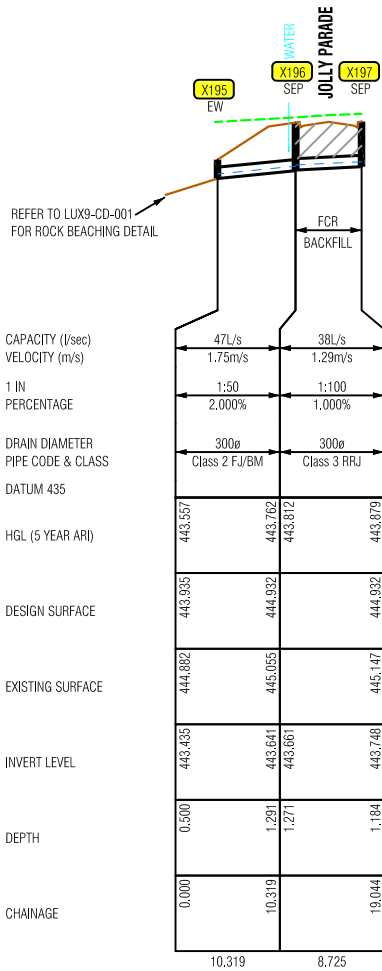
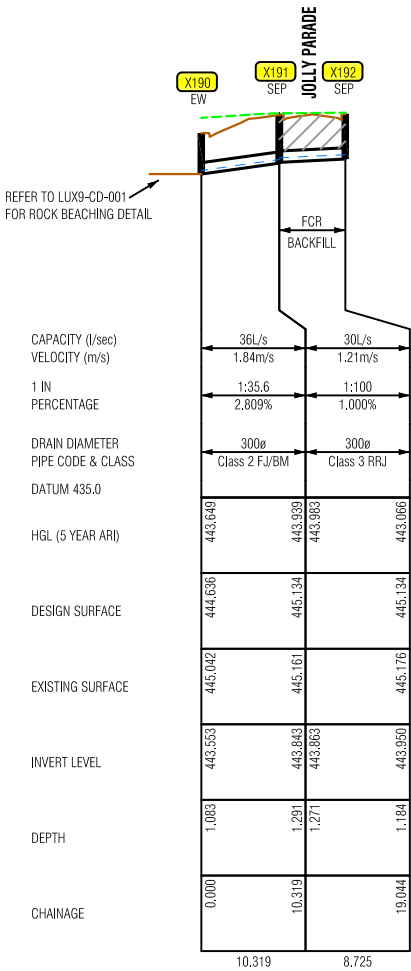
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Drawing Number
LUX9-CD-006

Revision
A



LEGEND	
Design Surface	
Existing Surface	
5 Year HGL	
Drainage Infrastructure	
Proposed Sewer	



General Notes

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D			
C			
B			
A	Issued for Approval	DG	03/09/18
Rev	Amendment	Initials	Date



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Project
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RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

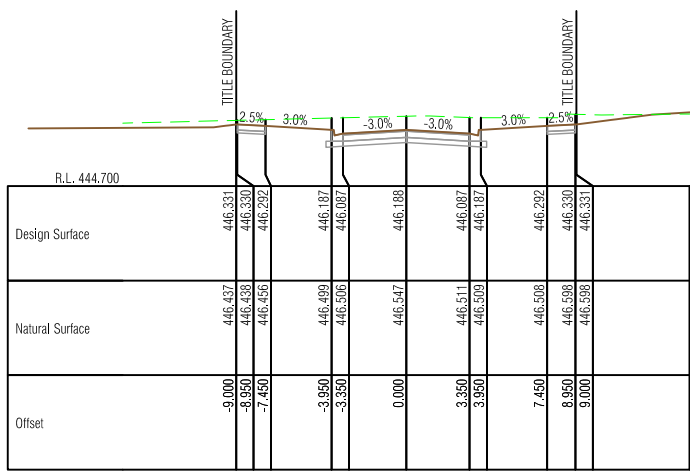
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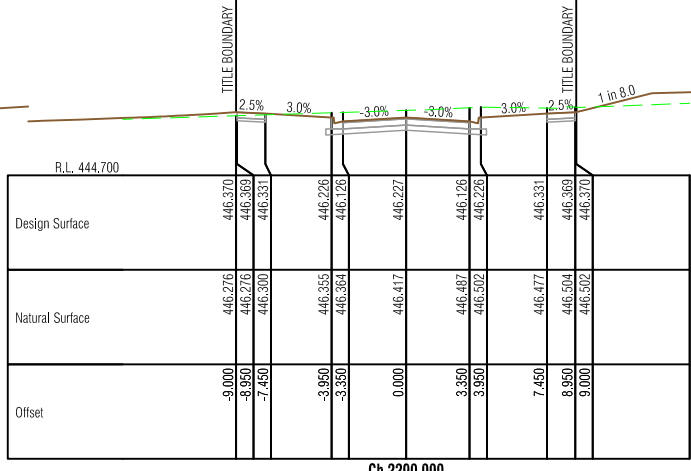
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VER 0 1 2 3 4 5

Sheet Number
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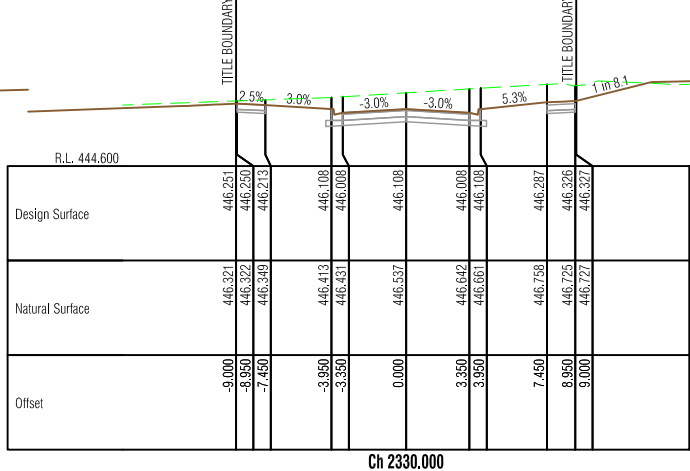
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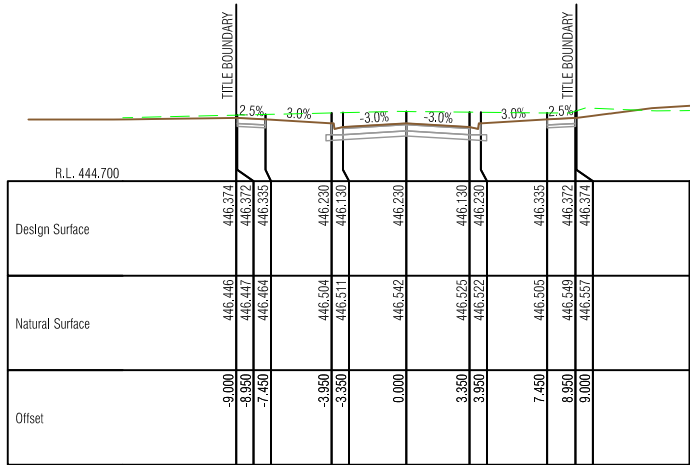
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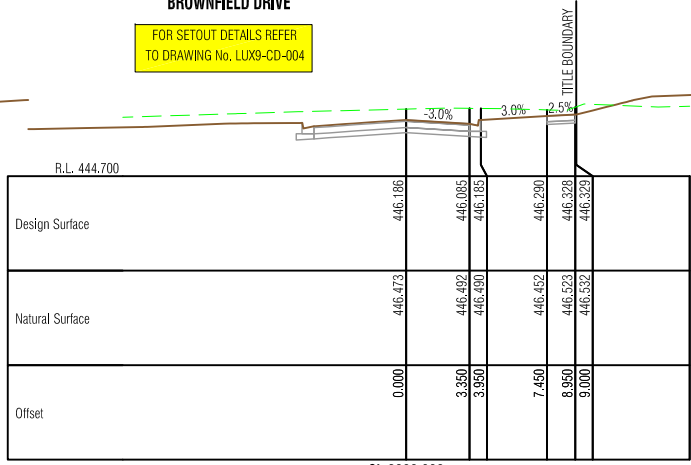
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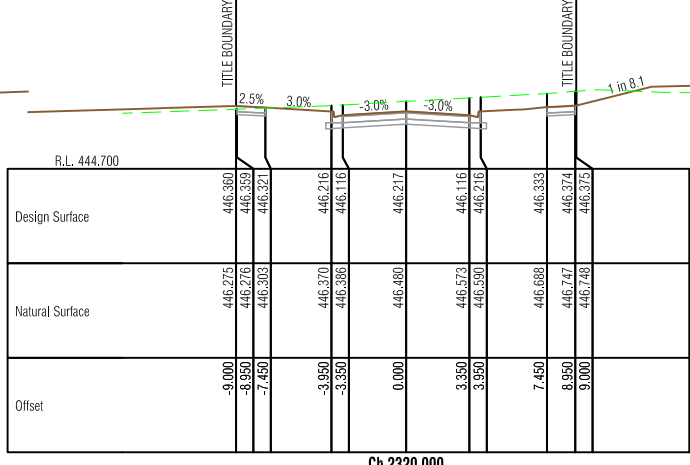
Ch 2330.000



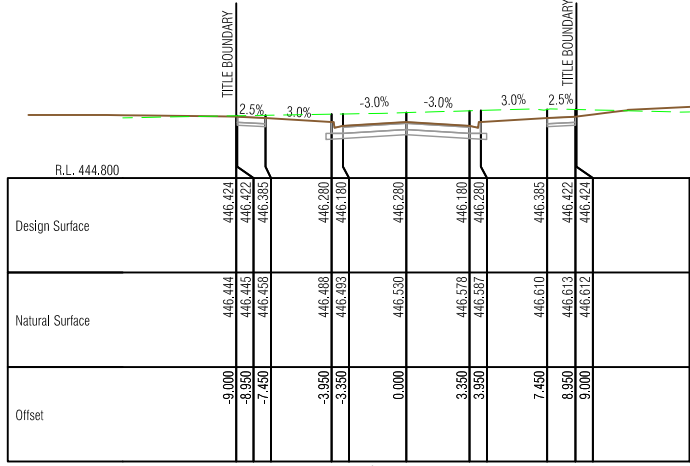
Ch 2250.000



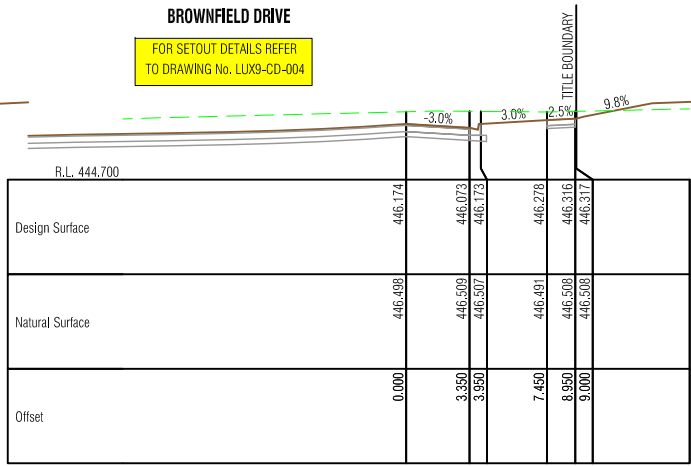
Ch 2280.000



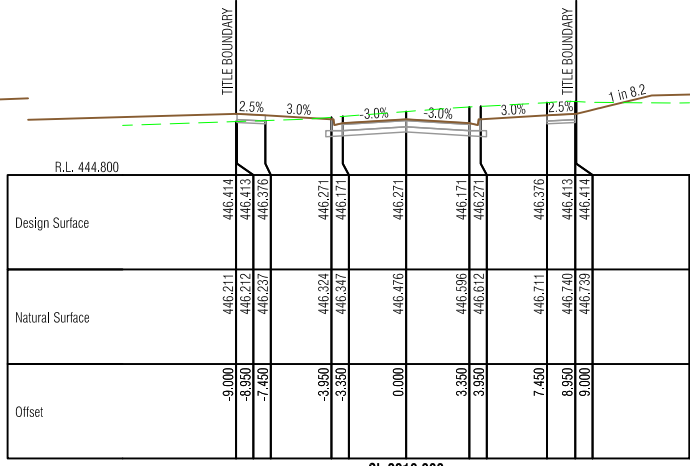
Ch 2320.000



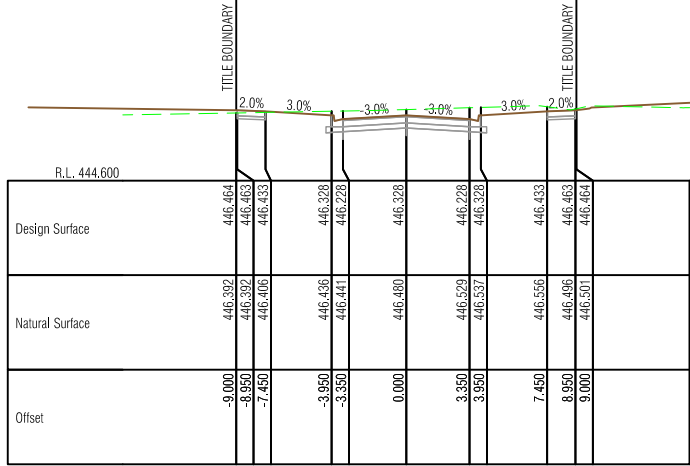
Ch 2240.000



Ch 2273.382

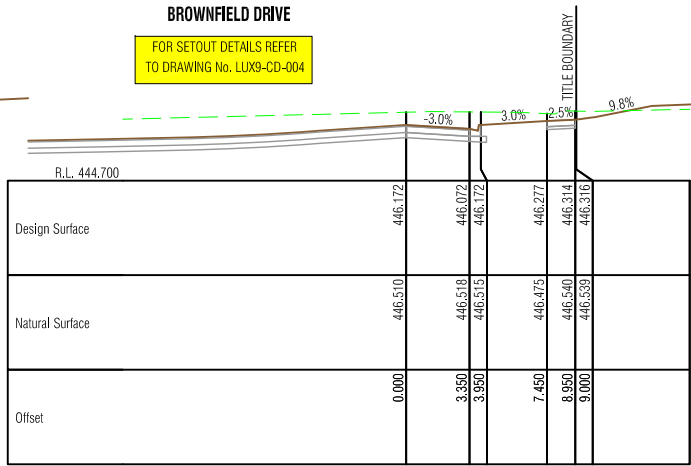


Ch 2310.000

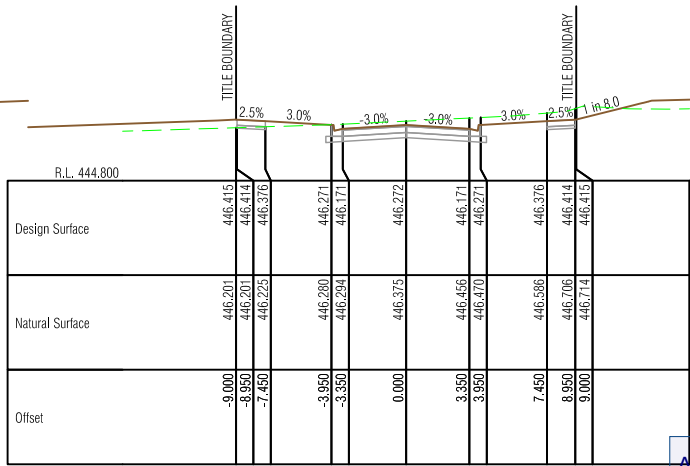


Ch 2230.382

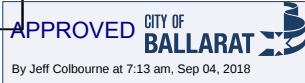
LIMIT OF STAGES X9/X10
MATCH EXISTING



Ch 2270.000



Ch 2300.000



General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU

Rev	Amendment	Initials	Date
A	Issued for Approval	DG	03/09/18
B			
C			
D			



1728 Sturt St, Alfredton
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Alfredton Victoria 3350
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Project
**LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic**

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
**CROSS SECTIONS
TREMAIN DRIVE
(CH 2230.382 - CH 2330.000)**

Status
**APPROVED
ISSUED FOR CONSTRUCTION**

Designer
D.Georgalas
Checker
T.Oldaker
Verified
Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10
VER 0 1 2 3 4 5

Sheet Number
9 of 16

Drawing Number
LUX9-CD-009
Revision
A

General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU



1728 Sturt St, Alfredton
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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
CROSS SECTIONS
TREMAIN DRIVE
(CH 2340.000 - CH 2355.382)

Status
APPROVED
ISSUED FOR CONSTRUCTION

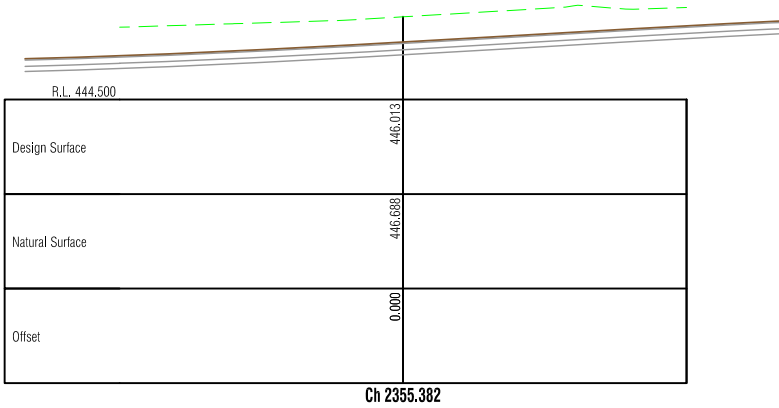
Designer: D.Georgalas
Checker: T.Oldaker
Verified:
Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10
VER 0 1 2 3 4 5

Sheet Number
10 of 16

Drawing Number
LUX9-CD-010
Revision
A

PATERSON STREET

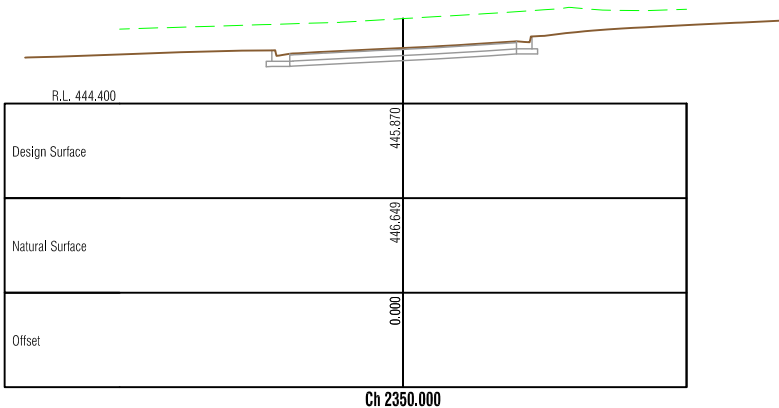
FOR SETOUT DETAILS REFER
TO DRAWING No. LUX9-CD-004



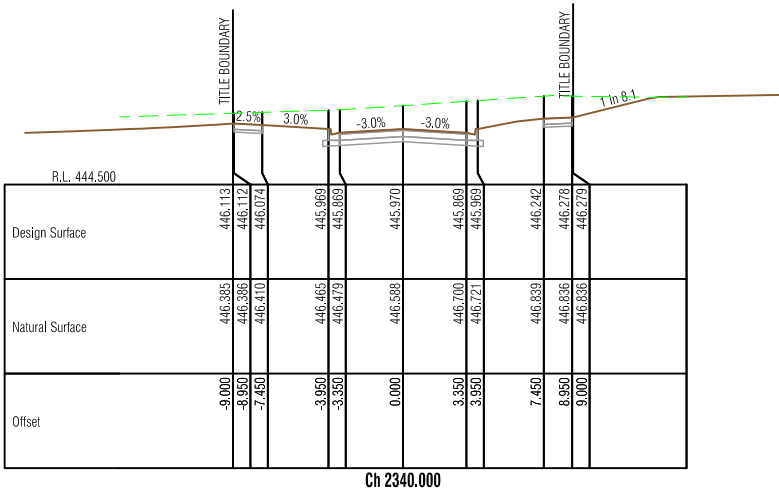
Ch 2355.382

PATERSON STREET

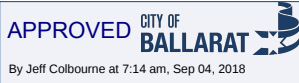
FOR SETOUT DETAILS REFER
TO DRAWING No. LUX9-CD-004

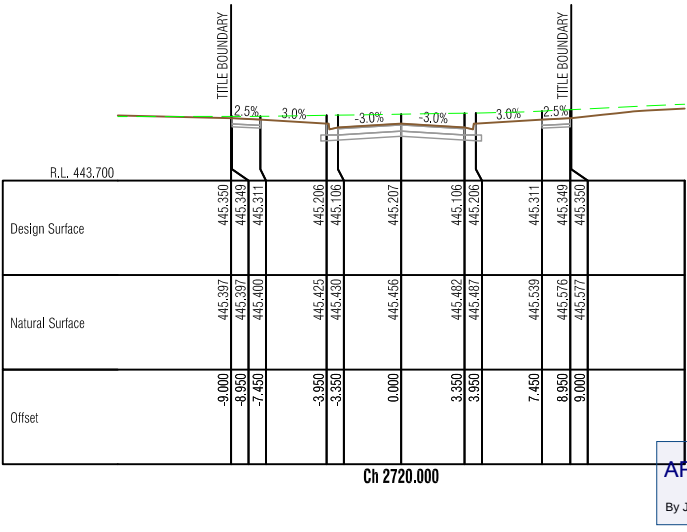
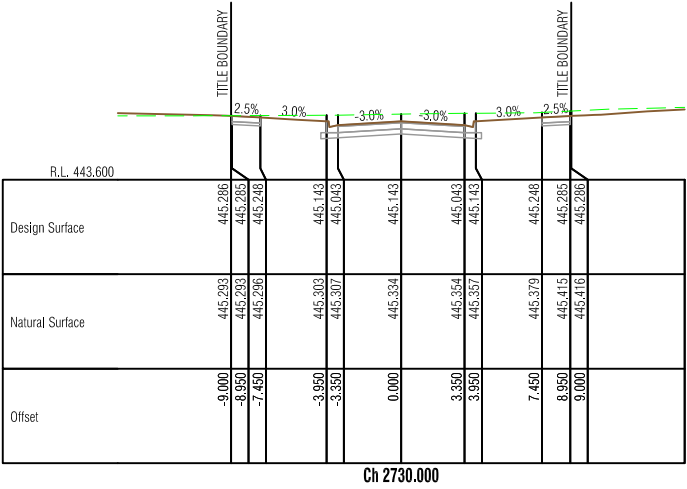
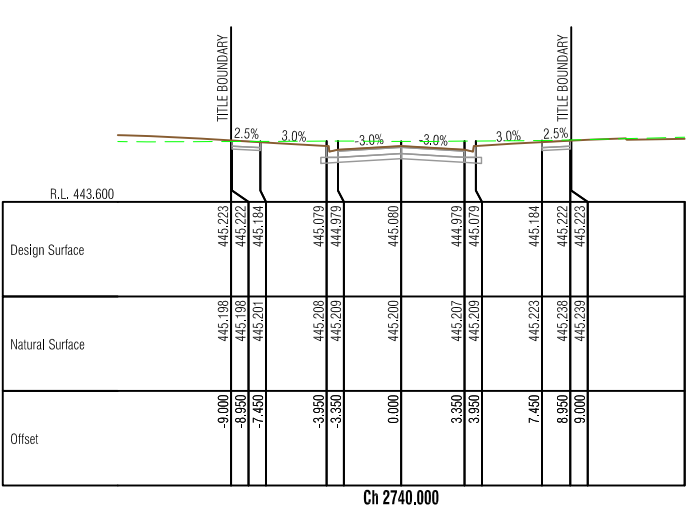
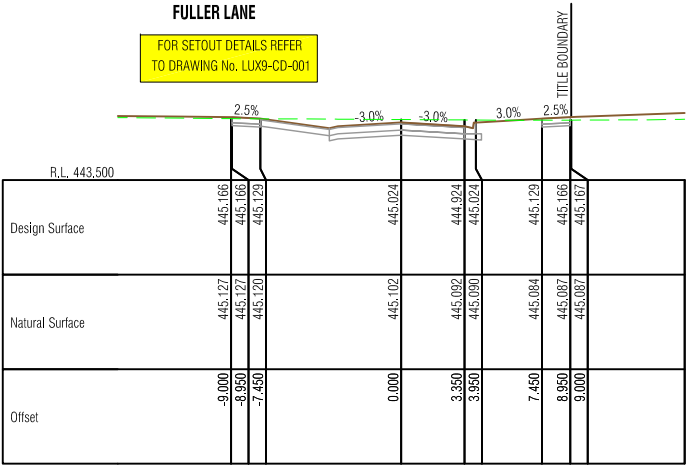
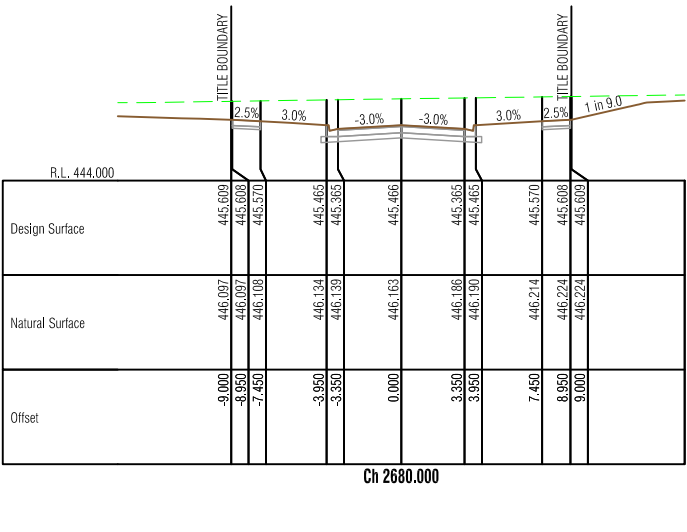
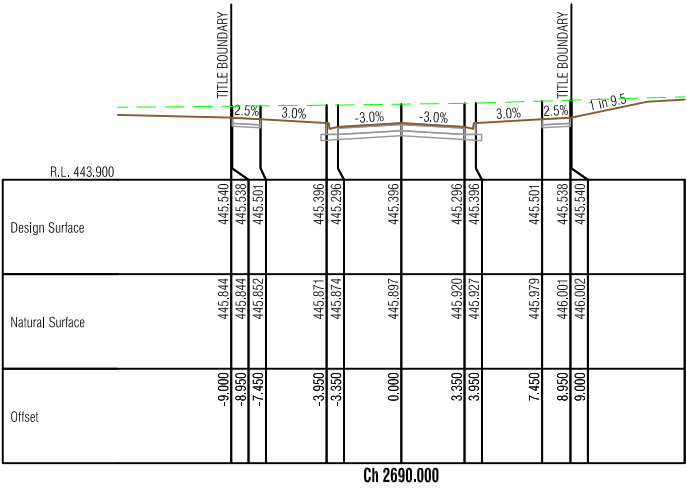
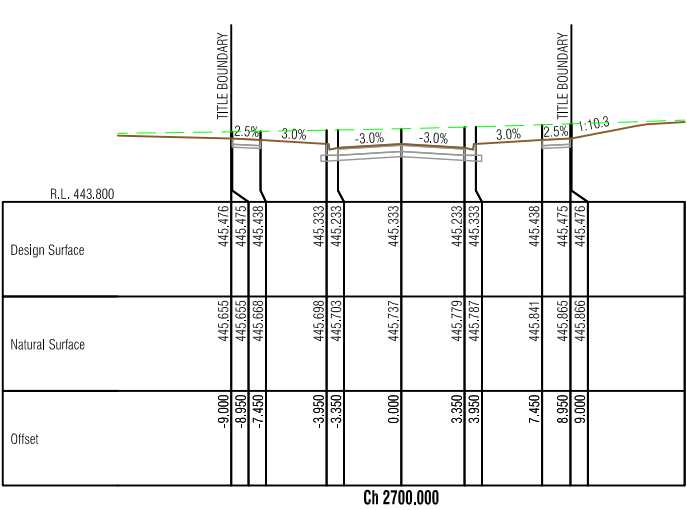
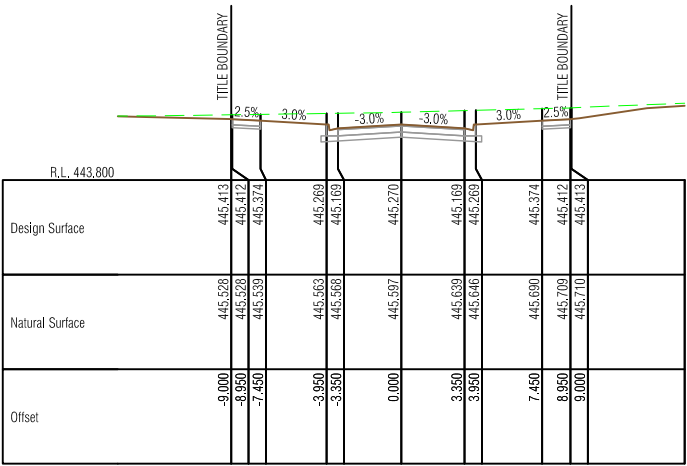
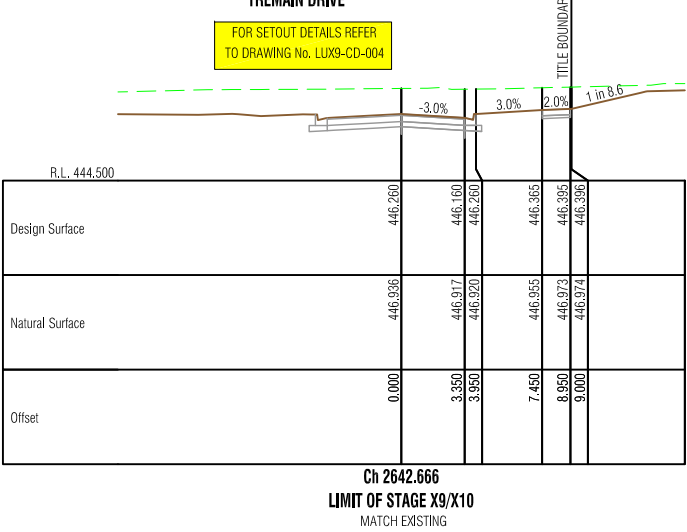
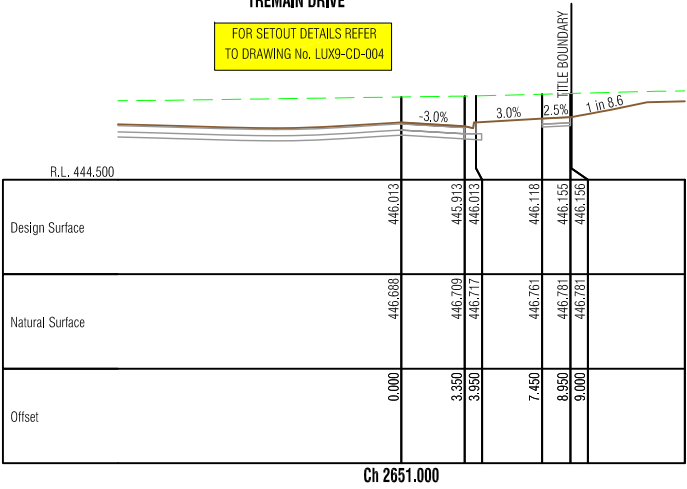
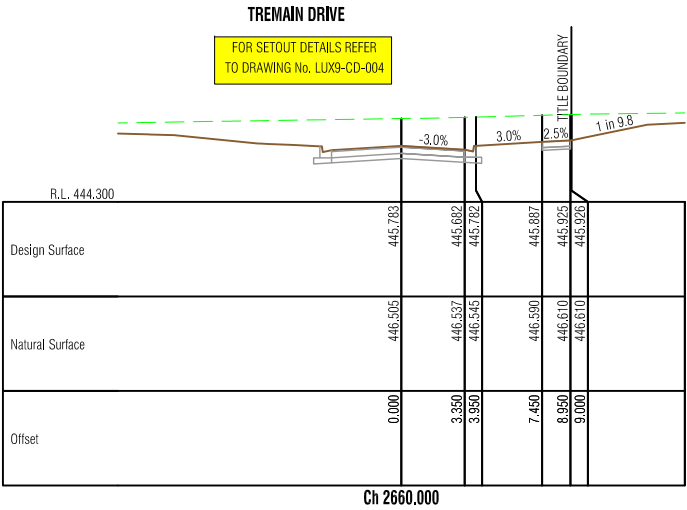
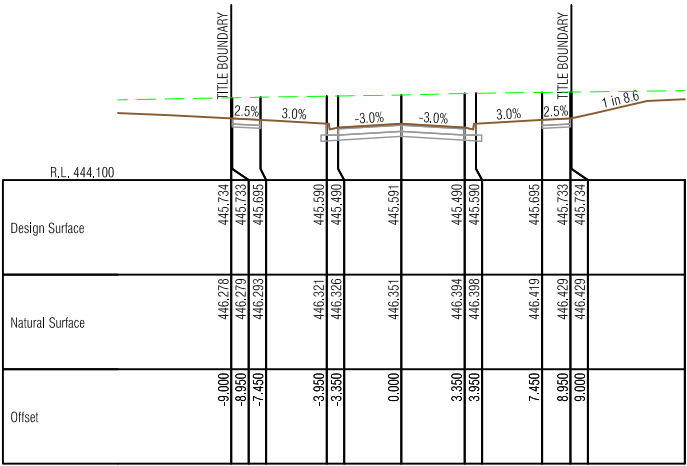


Ch 2350.000



Ch 2340.000





General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU



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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
CROSS SECTIONS
PATERSON STREET
(CH 2642.666 - CH 2748.816)

Status
APPROVED
ISSUED FOR CONSTRUCTION

Designer
D.Georgalas
Checker
T.Oldaker
Verified
Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10
VER 0 1 2 3 4 5

Sheet Number
11 of 16

Drawing Number
LUX9-CD-011
Revision
A

General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU



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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
CROSS SECTIONS
PATERSON STREET
(CH 2750.000- CH 2754.000)

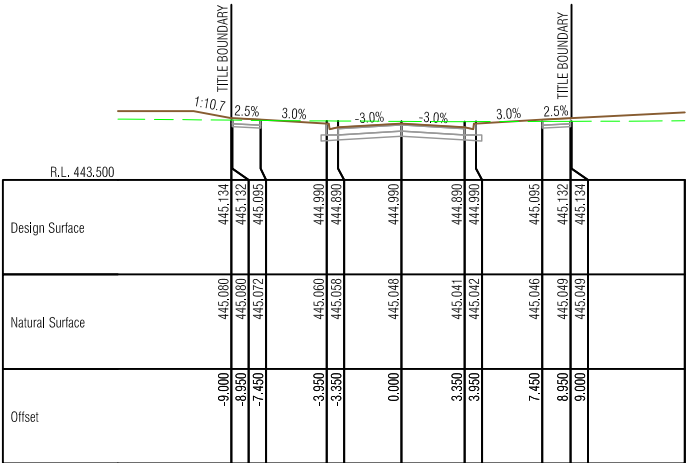
Status
APPROVED
ISSUED FOR CONSTRUCTION

Designer: D.Georgalas, Checker: T.Oldaker, Verified: T.Oldaker
Scale (A1) 1:200H, 1:100V, Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10, VER 0 1 2 3 4 5

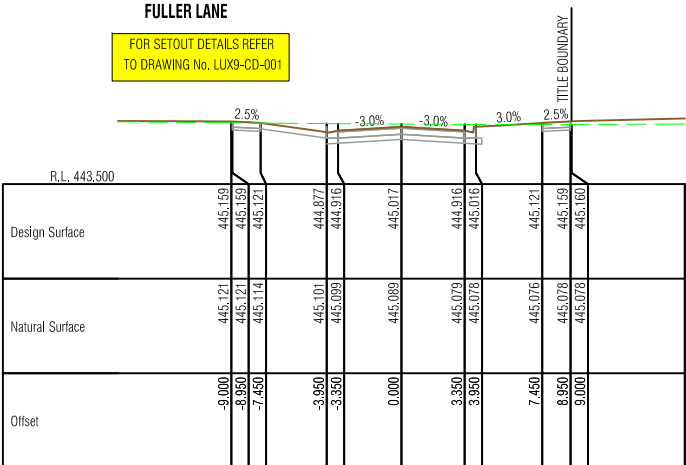
Sheet Number
12 of 16



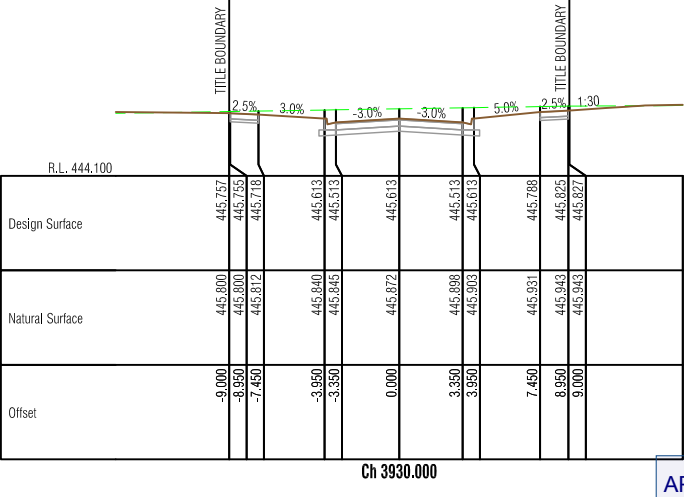
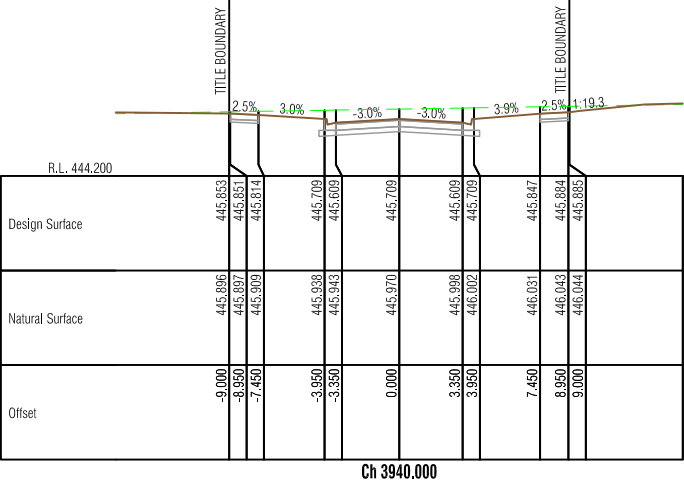
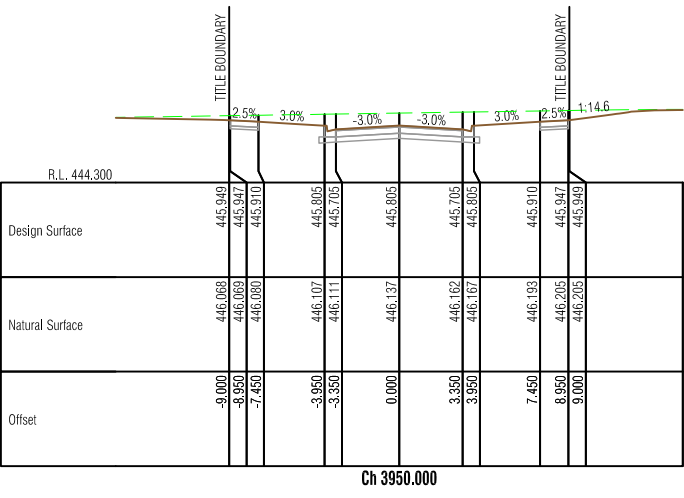
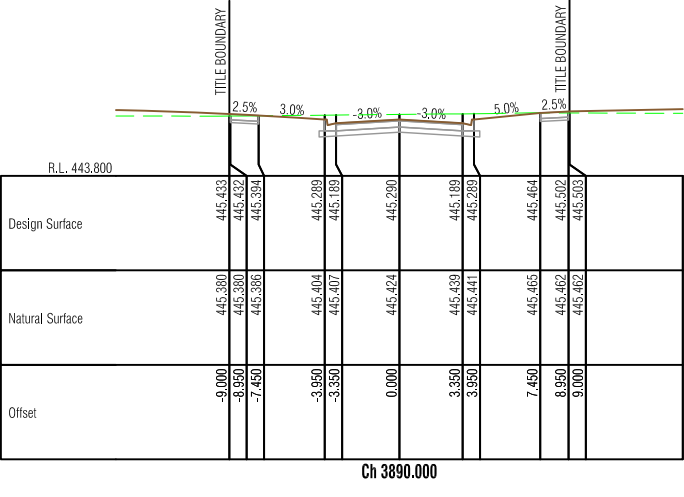
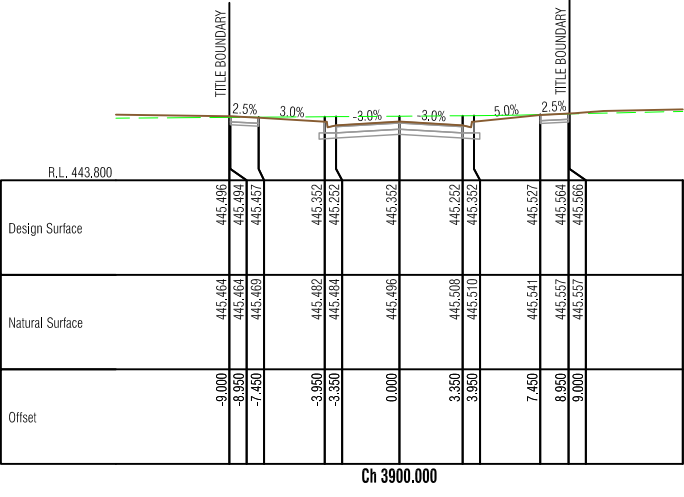
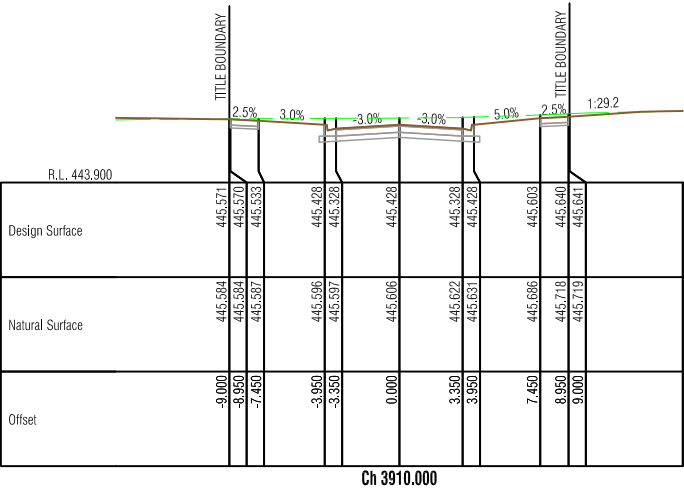
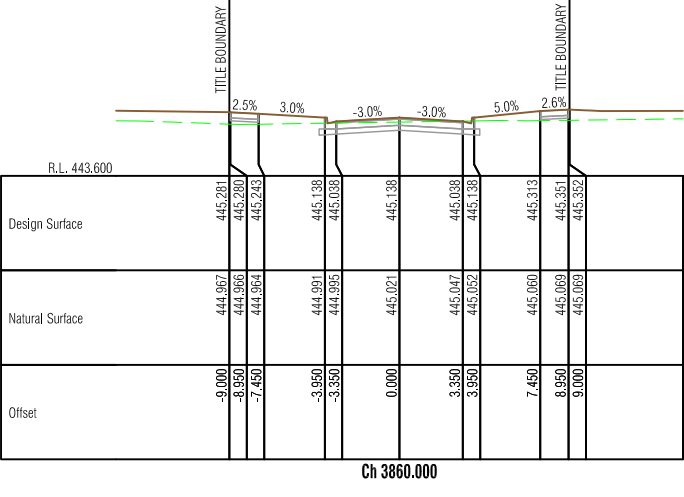
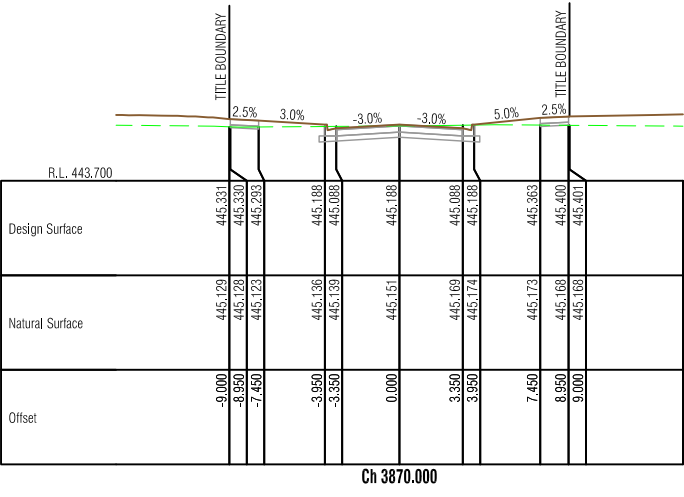
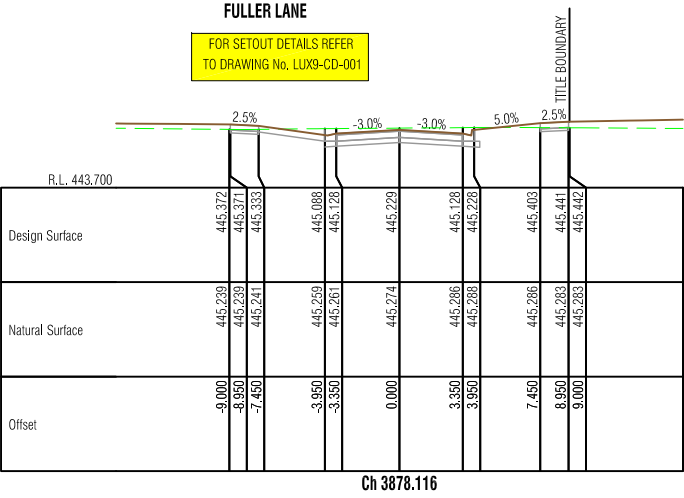
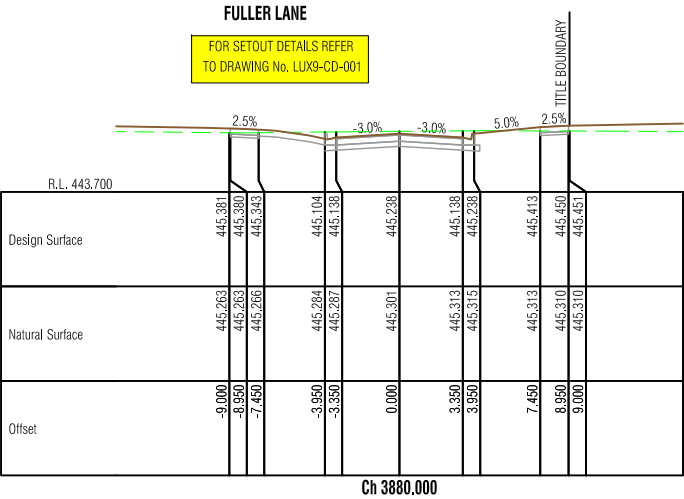
Drawing Number: LUX9-CD-012, Revision: A



Ch 2754.000
LIMIT OF STAGE X9/X10
MATCH EXISTING



Ch 2750.000



APPROVED CITY OF BALLARAT
By Jeff Colbourne at 7:15 am, Sep 04, 2018

General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU

D			
C			
B			
A	Issued for Approval	DG	03/09/18
Rev	Amendment	Initials	Date



1728 Sturt St, Alfredton
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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
CROSS SECTIONS
BROWNFIELD DRIVE
(CH 3860.000 - CH 3950.000)

Status
APPROVED
ISSUED FOR CONSTRUCTION

Designer
D.Georgalas

Checker
T.Oldaker

Verified

Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V

HOR 0 2 4 6 8 10

VER 0 1 2 3 4 5

Sheet Number

14 of 16

Drawing Number

LUX9-CD-014

Revision

A

General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU



1728 Sturt St, Alfreton
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Project
LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
CROSS SECTIONS
BROWNFIELD DRIVE
(CH 3960.000 - CH 3975.932)

Status
APPROVED
ISSUED FOR CONSTRUCTION

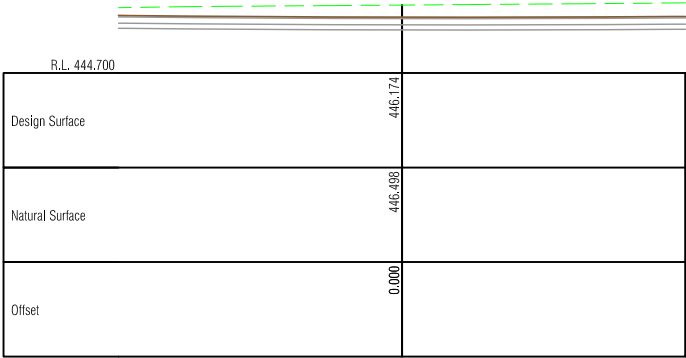
Designer: D.Georgalas
Checker: T.Oldaker
Verified:
Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10
VER 0 1 2 3 4 5

Sheet Number
15 of 16

Drawing Number
LUX9-CD-015
Revision
A

TREMAIN DRIVE

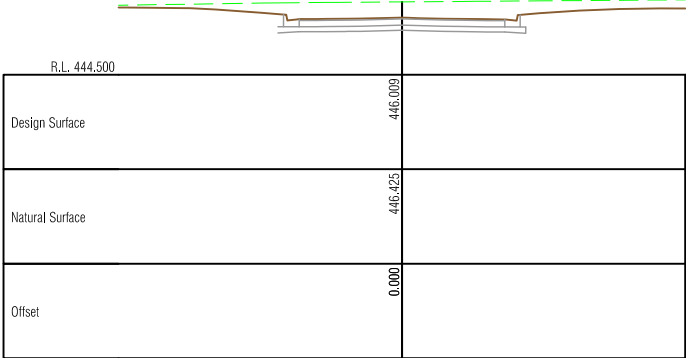
FOR SETOUT DETAILS REFER
TO DRAWING No. LUX9-CD-004



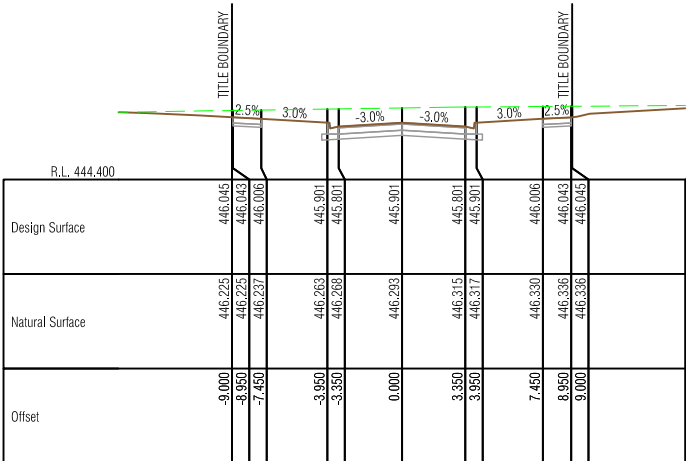
Ch 3975.932

TREMAIN DRIVE

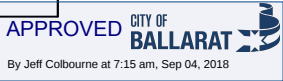
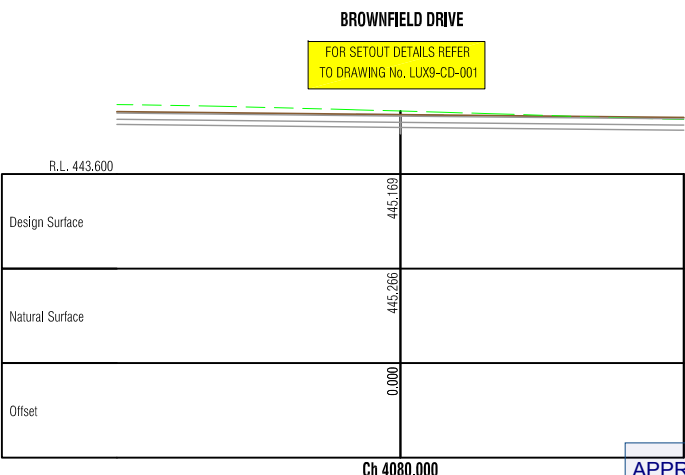
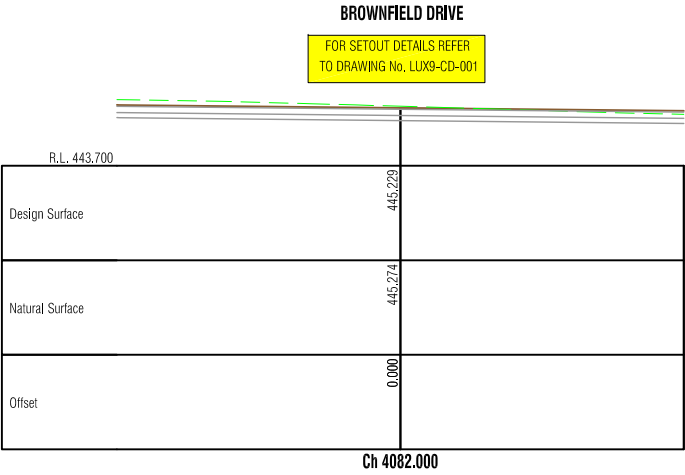
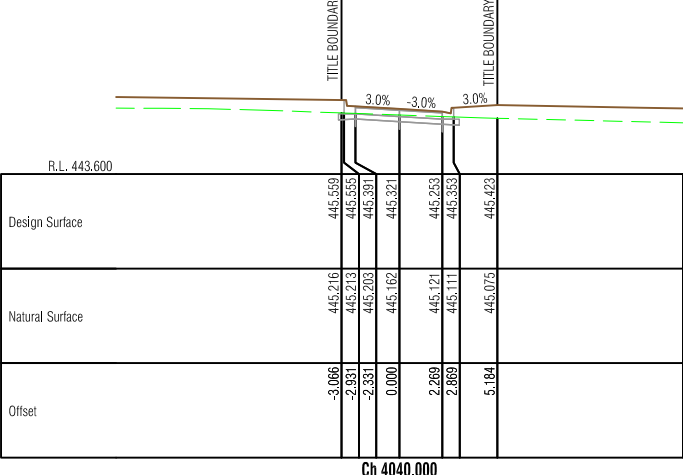
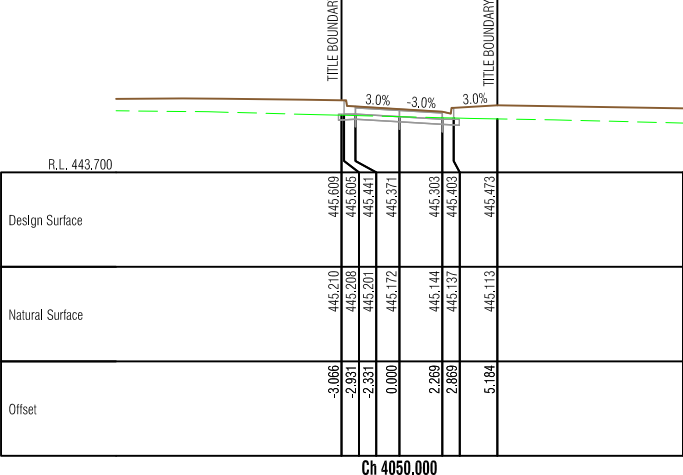
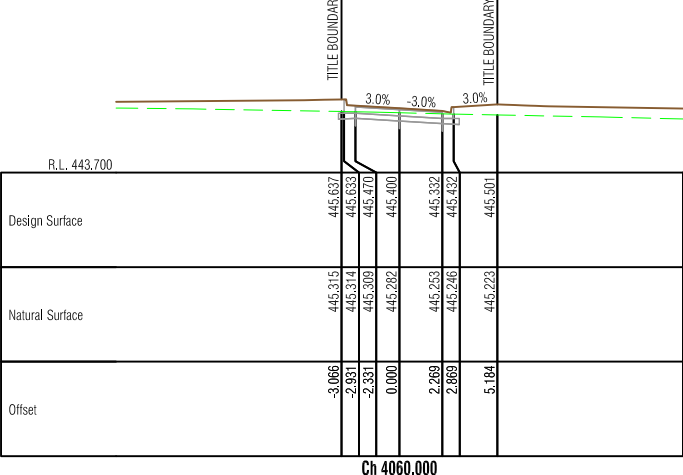
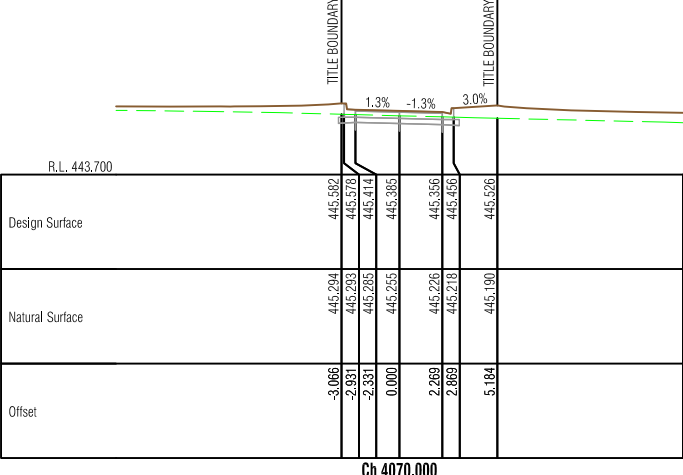
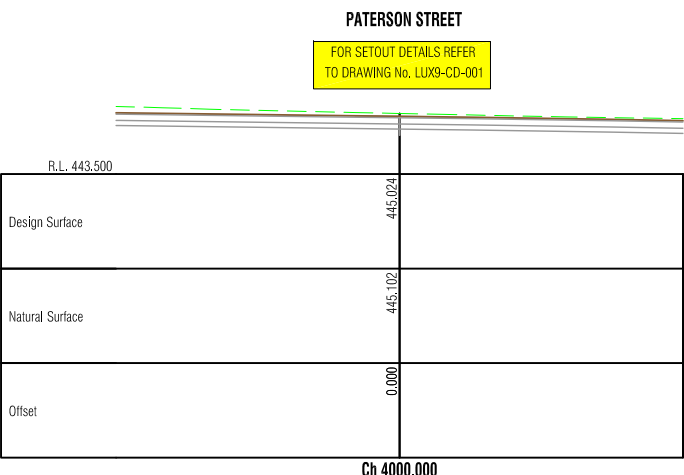
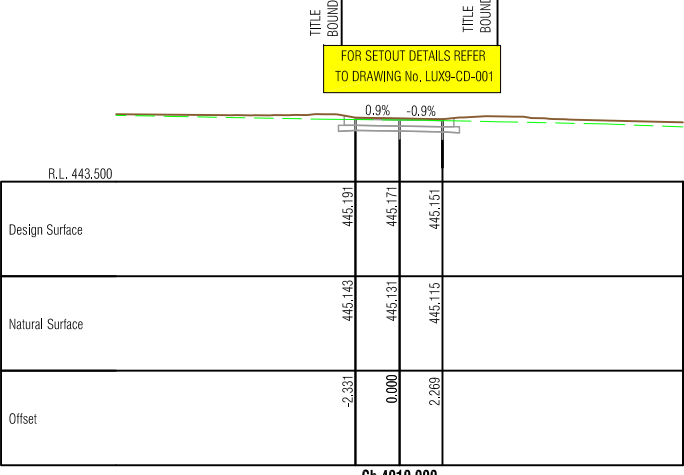
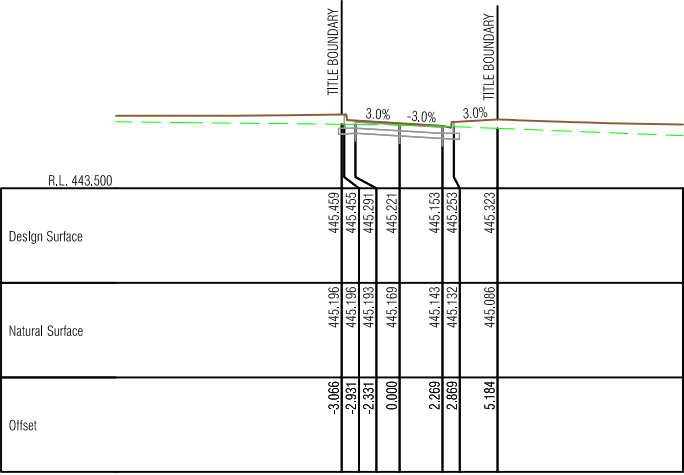
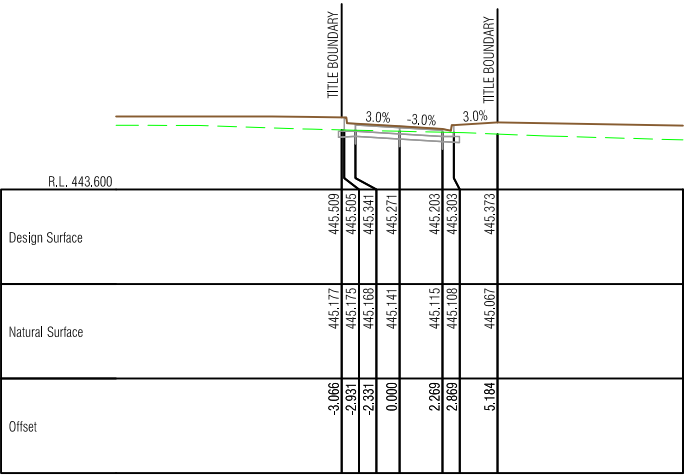
FOR SETOUT DETAILS REFER
TO DRAWING No. LUX9-CD-004



Ch 3970.000



Ch 3960.000



General Notes

SAFETY FIRST
SAFETY STARTS WITH YOU



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Project
**LUCAS ESTATE
RESIDENTIAL SUBDIVISION
STAGES X9/X10
LUCAS, Vic**

Authority
Ballarat City Council - (03) 5320 5500

Drawing Title
**CROSS SECTIONS
FULLER LANE
(CH 4000.000 - CH 4082.000)**

Status
**PRELIMINARY
NOT FOR CONSTRUCTION**

Designer
D.Georgalas
Scale (A1) 1:200H, 1:100V Scale (A3) 1:400H, 1:200V
HOR 0 2 4 6 8 10
VER 0 1 2 3 4 5

Sheet Number
16 of 16

Drawing Number
LUX9-CD-016

Revision
A