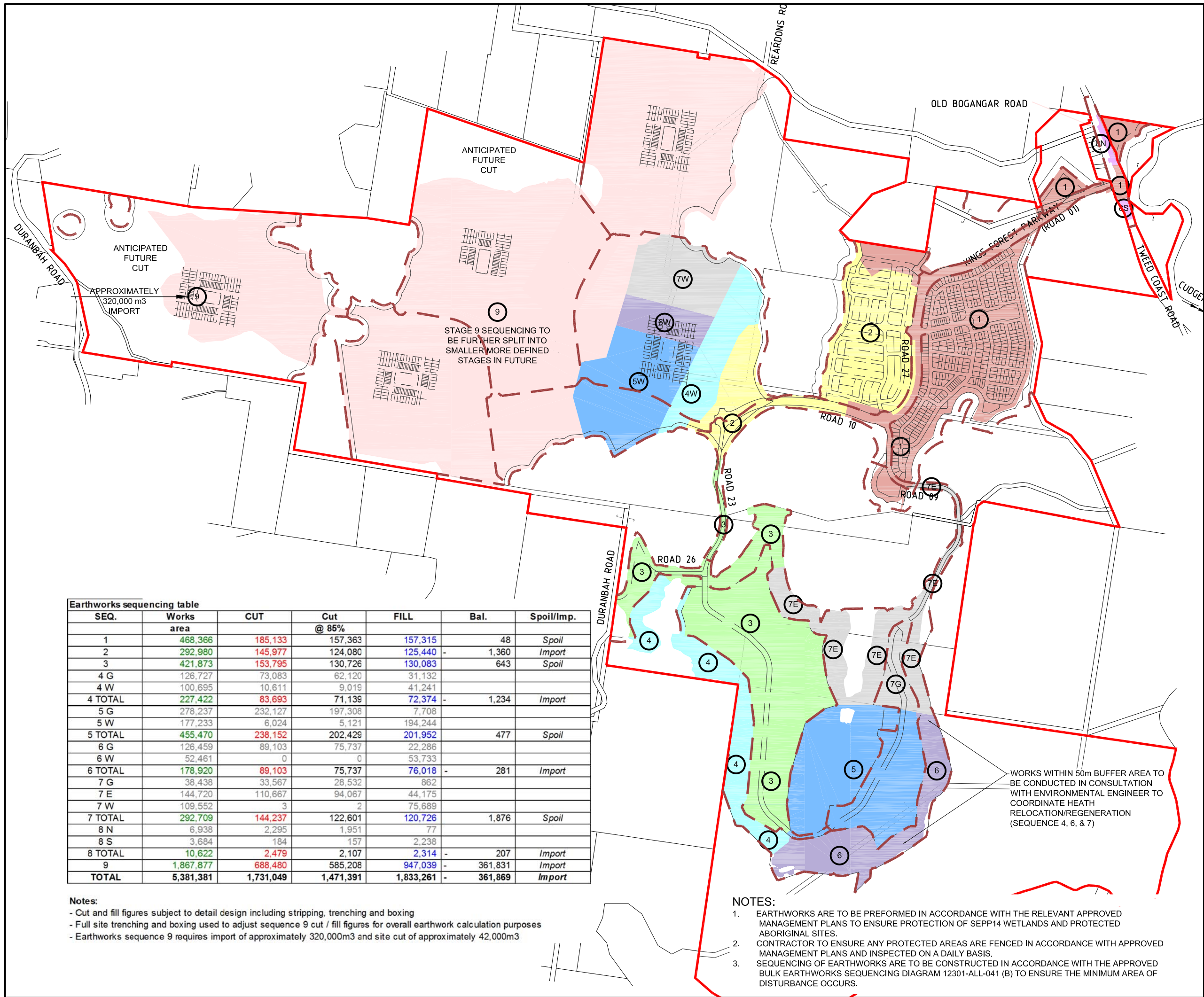




Earthworks sequencing table						
SEQ.	Works area	CUT	Cut @ 85%	FILL	Bal.	Spoil/Imp.
1	468,366	185,133	157,363	157,315	48	Spoil
2	292,980	145,977	124,080	125,440	1,360	Import
3	421,873	153,795	130,726	130,083	643	Spoil
4 G	126,727	73,083	62,120	31,132		
4 W	100,695	10,611	9,019	41,241		
4 TOTAL	227,422	83,693	71,139	72,374	1,234	Import
5 G	278,237	232,127	197,308	7,708		
5 W	177,233	6,024	5,121	194,244		
5 TOTAL	455,470	238,152	202,429	201,952	477	Spoil
6 G	126,459	89,103	75,737	22,286		
6 W	52,461	0	0	53,733		
6 TOTAL	178,920	89,103	75,737	76,018	281	Import
7 G	38,438	33,567	28,532	862		
7 E	144,720	110,667	94,067	44,175		
7 W	109,552	3	2	75,689		
7 TOTAL	292,709	144,237	122,601	120,726	1,876	Spoil
8 N	6,938	2,295	1,951	77		
8 S	3,684	184	157	2,238		
8 TOTAL	10,622	2,479	2,107	2,314	207	Import
9	1,867,877	688,480	585,208	947,039	361,831	Import
TOTAL	5,381,381	1,731,049	1,471,391	1,833,261	361,869	Import

Notes:
- Cut and fill figures subject to detail design including stripping, trenching and boxing
- Full site trenching and boxing used to adjust sequence 9 cut / fill figures for overall earthwork calculation purposes
- Earthworks sequence 9 requires import of approximately 320,000m3 and site cut of approximately 42,000m3

- NOTES:
- EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH THE RELEVANT APPROVED MANAGEMENT PLANS TO ENSURE PROTECTION OF SEPP14 WETLANDS AND PROTECTED ABORIGINAL SITES.
 - CONTRACTOR TO ENSURE ANY PROTECTED AREAS ARE FENCED IN ACCORDANCE WITH APPROVED MANAGEMENT PLANS AND INSPECTED ON A DAILY BASIS.
 - SEQUENCING OF EARTHWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED BULK EARTHWORKS SEQUENCING DIAGRAM 12301-ALL-041 (B) TO ENSURE THE MINIMUM AREA OF DISTURBANCE OCCURS.

PROJECT NAME
KINGS FOREST
BULK EARTHWORKS PRECINCTS ,
& ESTATE MAJOR ACCESS WORKS

REAL PROPERTY DESCRIPTION
Lot 7 on DP875447, Part of Lot 6 on DP875446,
Lot 1 on DP781633, Lot 40 on DP7482,
Lot 2 on DP819015, Lot 1 on DP129737,
Lot 37A, 38A &39B ON DP13727,
Lot 1 on DP706497, Lot 76, 323, 272,
96 & 326 on DP755701
PARISH OF CUDGEN, COUNTY OF ROUS .

CLIENT
PROJECT 28
PTY LTD



0 750 1500 2250 3000 3750m
Scale 1:75000 - A1 (1:150000 - A3)

ISSUES	DATE
TENDER	
STATE AUTHORITY	05-09-12
CONSTRUCTION	

B	16-10-12	TABLE AMENDED AND NOTE ADDED
A	23-08-12	ISSUE FOR INFORMATION
PRE DATE	AMENDMENT	

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Ph. (07) 55367055

GILBERT+SUTHERLAND
agricultural and environmental scientists

DRAWING TITLE

BULK EARTHWORKS
SEQUENCING DIAGRAM

MORTONS
urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination

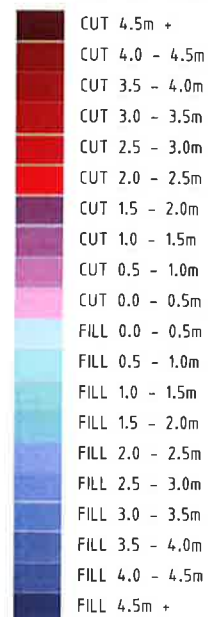
MUS Pty Ltd T/As:
Mortons-Urban Solutions
ABN: 39 116 375 065
mortons@urbansolutions.net.au
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Tel: 07 5571 1099
Fax: 07 5571 1088
Postal Address:
PO Box 2484
Southport QLD 4215
Gold Coast Office:
Suite 9, 19 Short St
Southport QLD 4215

DESIGNED RB	DRAWN BL
APPROVED	DATE 23.08.12

DRAWING NUMBER
12301-ALL-041
AMEND.
B

LEGEND

EMAW ESTATE MAJOR ACCESS WORKS



NOTES:

1. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH THE RELEVANT APPROVED MANAGEMENT PLANS TO ENSURE PROTECTION OF SEPP14 WETLANDS AND PROTECTED ABORIGINAL SITES.
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3. SEQUENCING OF EARTHWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED BULK EARTHWORKS SEQUENCING DIAGRAM 12301-ALL-041 (B) TO ENSURE THE MINIMUM AREA OF DISTURBANCE OCCURS.

PROJECT NAME KINGS FOREST BULK EARTHWORKS PRECINCTS , & ESTATE MAJOR ACCESS WORKS

REAL PROPERTY DESCRIPTION
Lot 7 on DP875447, Part of Lot 6 on DP875446,
Lot 1 on DP781633, Lot 40 on DP7482,
Lot 2 on DP819015, Lot 1 on DP129737,
Lot 37A, 38A & 39B ON DP13727,
Lot 1 on DP706497, Lot 76, 323, 272,
96 & 326 on DP755701
PARISH OF CUDGEN, COUNTY OF ROUS.

CLIENT
**PROJECT 28
PTY LTD**



0 40 80 120 160 200m
Scale 1:4000 - A1 (1:8000 - A3)

ISSUES	DATE
TENDER	
STATE AUTHORITY	05-09-12
CONSTRUCTION	

ISSUES	DATE
B	16-10-12
A	05-09-12
PRE DATE	AMENDMENT

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Ph. (07) 55367055

GILBERT+SUTHERLAND
agricultural and environmental scientists

DRAWING TITLE

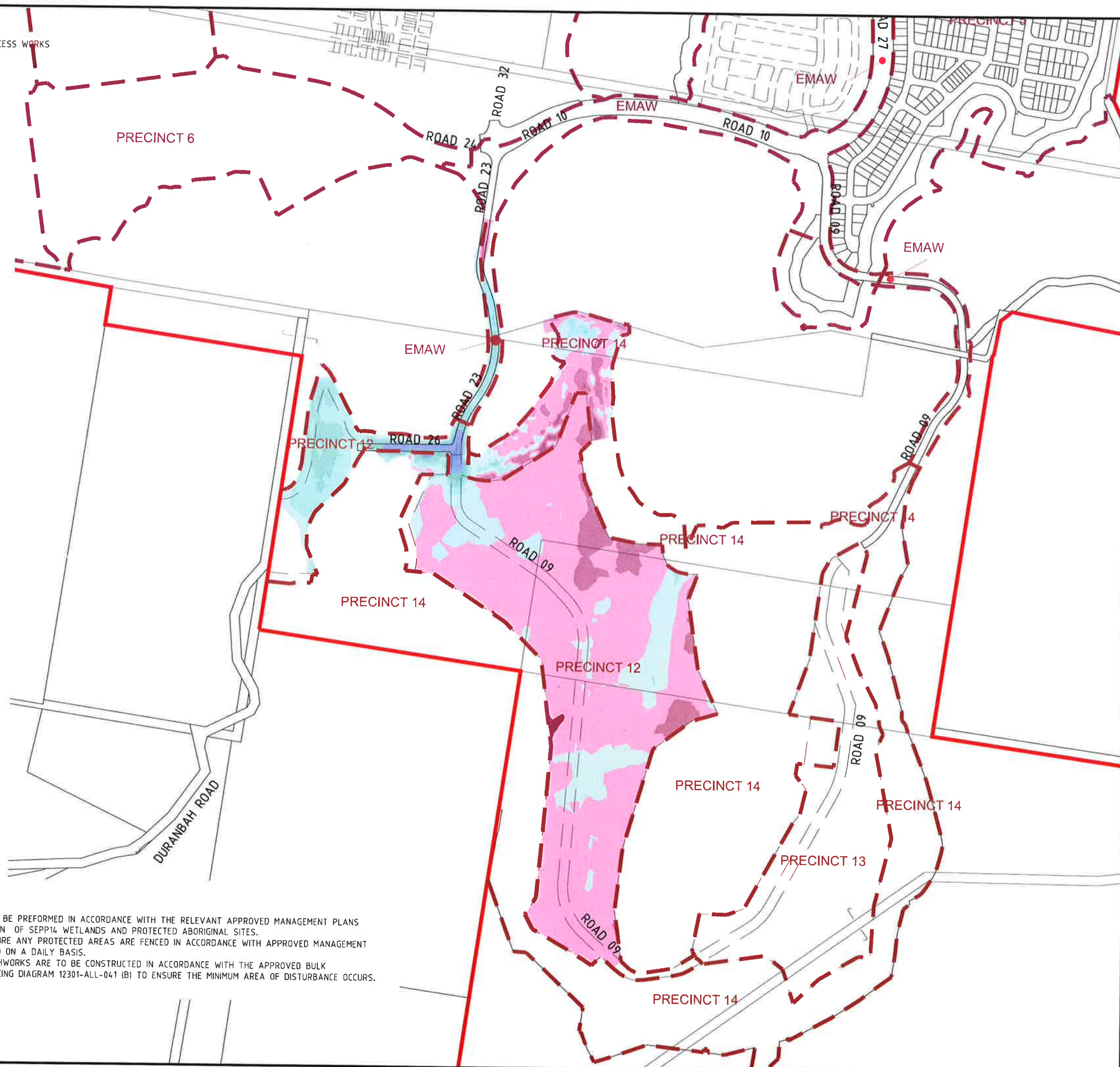
BULK EARTHWORKS
SEQUENCING DIAGRAM
SEQUENCE 1
DETAIL SHEET

MORTONS
urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination

MUS Pty Ltd T/A:
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Tel 07 5571 1099
Fax 07 5571 1088

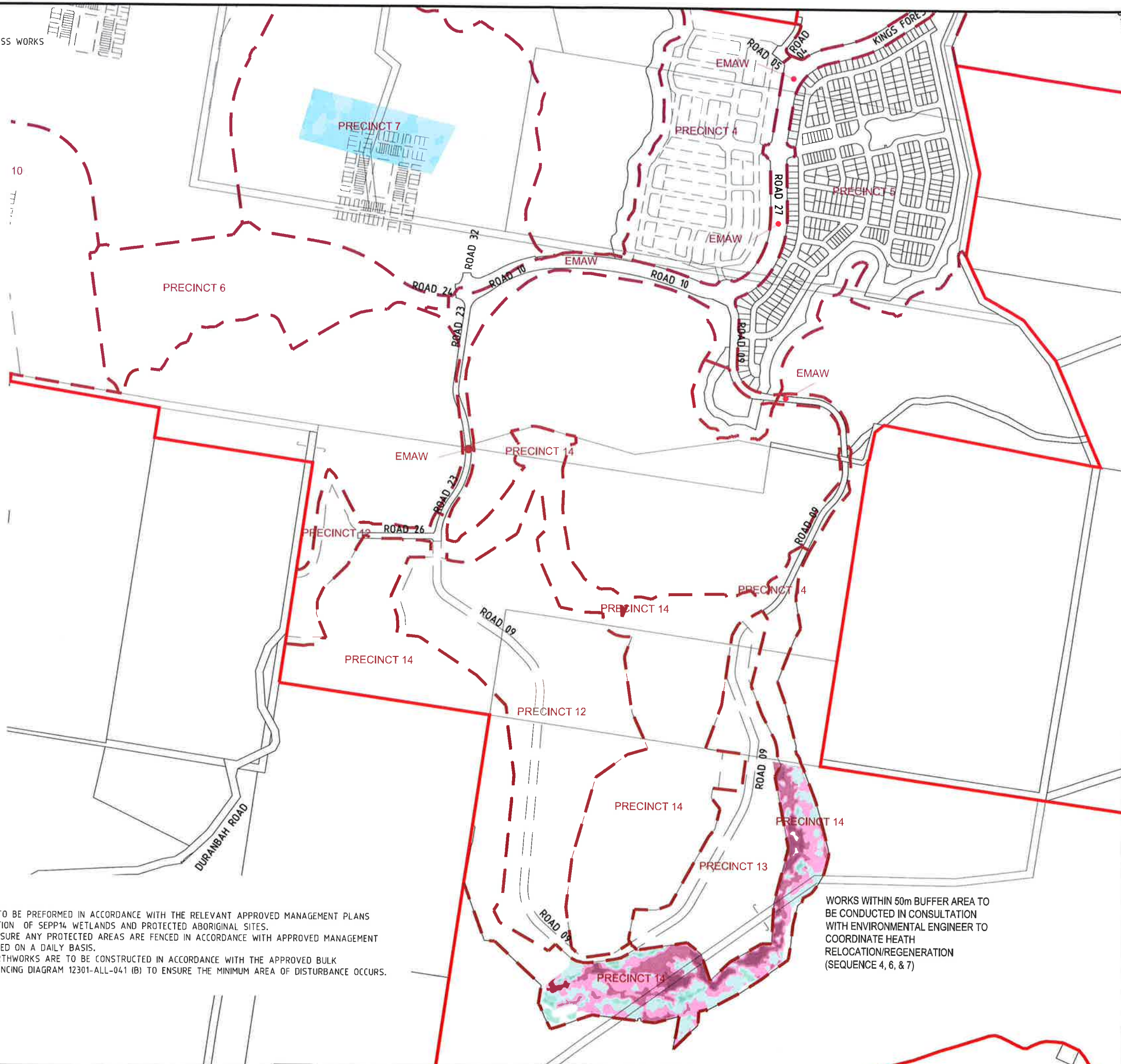
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PO Box 2484
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Gold Coast Office
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Southport QLD 4215

DESIGNED RB	DRAWN BL
APPROVED	DATE 05-09-12
DRAWING NUMBER 12301-ALL-042	AMEND. B



DRAWING NUMBER		AMEND.
12301-A11-044		B

1. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH THE RELEVANT APPROVED MANAGEMENT PLANS TO ENSURE PROTECTION OF SEPP14 WETLANDS AND PROTECTED ABORIGINAL SITES.
2. CONTRACTOR TO ENSURE ANY PROTECTED AREAS ARE FENCED IN ACCORDANCE WITH APPROVED MANAGEMENT PLANS AND INSPECTED ON A DAILY BASIS.
3. SEQUENCING OF EARTHWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED BULK EARTHWORKS SEQUENCING DIAGRAM 12301-ALL-041 (B) TO ENSURE THE MINIMUM AREA OF DISTURBANCE OCCURS.



DESIGNED RB	DRAWN BL
APPROVED	DATE 05-09-12
DRAWING NUMBER	AMEND.
12301-ALL-047	B

1. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH THE RELEVANT APPROVED MANAGEMENT PLANS TO ENSURE PROTECTION OF SEPP14 WETLANDS AND PROTECTED ABORIGINAL SITES.
2. CONTRACTOR TO ENSURE ANY PROTECTED AREAS ARE FENCED IN ACCORDANCE WITH APPROVED MANAGEMENT PLANS AND INSPECTED ON A DAILY BASIS.
3. SEQUENCING OF EARTHWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED BULK EARTHWORKS SEQUENCING DIAGRAM 12301-ALL-041 (B) TO ENSURE THE MINIMUM AREA OF DISTURBANCE OCCURS.

WORKS WITHIN 50m BUFFER AREA TO
BE CONDUCTED IN CONSULTATION
WITH ENVIRONMENTAL ENGINEER TO
COORDINATE HEATH
RELOCATION/REGENERATION
(SEQUENCE 4, 6, & 7)

FINISHED SURFACE		EXISTING SURFACE		CHAINAGE	
0	2.713	20	2.871	0	2.713
40	4.86	2.3		20	2.871
60	5.288	4.096		40	4.86
80	5.362	4.536		60	5.288
100	5.463	4.586		80	5.362
120	4.756	4.626		100	5.463
140	4.556	4.65		120	4.756
160	4.714	4.594		140	4.556
180	5.119	4.449		160	4.714
200	5.424	4.398		180	5.119
220	5.563	4.545		200	5.424
240	5.336	4.841		220	5.563
260	5.142	4.923		240	5.336
280	5.234	4.98		260	5.142
300	5.159	4.833		280	5.234
320	4.994	4.728		300	5.159
340	4.764	4.9		320	4.994
360	4.966	4.854		340	4.764
380	5.241	4.559		360	4.966
400	4.997	4.271		380	5.241
420	4.411	4.648		400	4.997
440	5.387	5.486		420	4.411
460	5.525	5.946		440	5.387
480	5.186	6.024		460	5.525
500	5.378	6.107		480	5.186
520	5.455	6.008		500	5.378
540	5.49	5.845		520	5.455
560	5.657	5.854		540	5.49
580	5.727	6.048		560	5.657
600	5.597	5.873		580	5.727
620	5.669	6.51		600	5.597
640	5.814	6.789		620	5.669
660	5.777	6.784		640	5.814
680	5.911	6.366		660	5.777
700	6.117	6.974		680	5.911
720	6.095	6.988		700	6.117
740	6.095	6.905		720	6.095
760	6.009	6.279		740	6.095
780	5.512			760	6.009
800	5.367			780	5.512
820	5.701			800	5.367
840	5.555			820	5.701
855.067	5.385			840	5.555

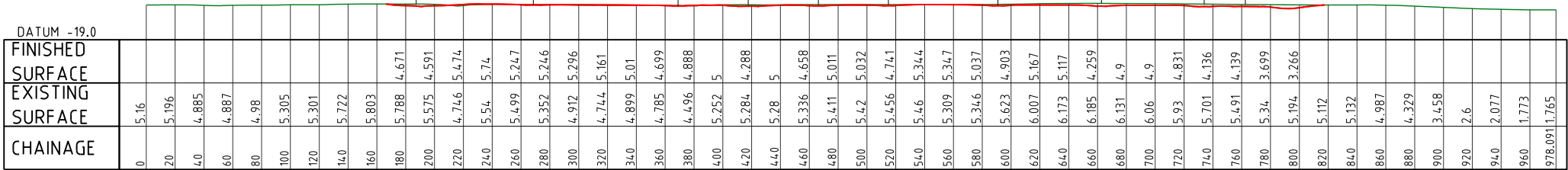
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FINISHED SURFACE	0 2.839
EXISTING SURFACE	20 3.237
CHAINAGE	40 3.596
	60 3.17
	80 3.077 2.3
	100 3.724 4.43
	120 4.348 4.544
	140 4.637 4.665
	160 4.591 4.78
	180 4.339 4.892
	200 4.391 5
	220 4.532
	240 4.358
	260 4.363
	280 4.781
	300 5.147
	320 5.015
	340 5.995
	360 6.069
	380 5.17
	400 5.107
	420 4.73
	440 5.34
	460 5.841
	480 5.826
	500 5.786
	520 5.575
	540 5.312
	560 5.311
	580 5.78
	600 5.732
	620 5.433
	640 5.754 5.784
	660 5.957 6.075
	680 5.718 5.068
	700 5.745 6.748
	720 5.742 6.787
	740 5.504 6.586
	760 5.318 6.773
	780 5.32
	800 5.248
	820 5.024
	840 4.952
	860 5.089
	880 5.043
	900 4.816
	920 4.997
	927.488 5.211

FINISHED SURFACE		EXISTING SURFACE		CHAINAGE	
0	6.561	20	6.282	0	
40	6.146	60	6.174	80	5.247
100	5.278	120	5.273	160	5.656
180	5.544	200	5.403	220	4.369
240	4.222	260	4.022	280	4.117
300	4.374	320	5.873	340	6.043
360	6.114	380	6.235	400	6.299
420	6.142	440	6.046	460	5.761
480	5.735	500	5.765	520	5.987
540	6.176	560	6.647	580	6.992
600	7.063	620	6.976	640	6.758
660	6.959	680	6.37	699.773	5.928

DRAWING NUMBER	AMEND.
12301-05-056	B

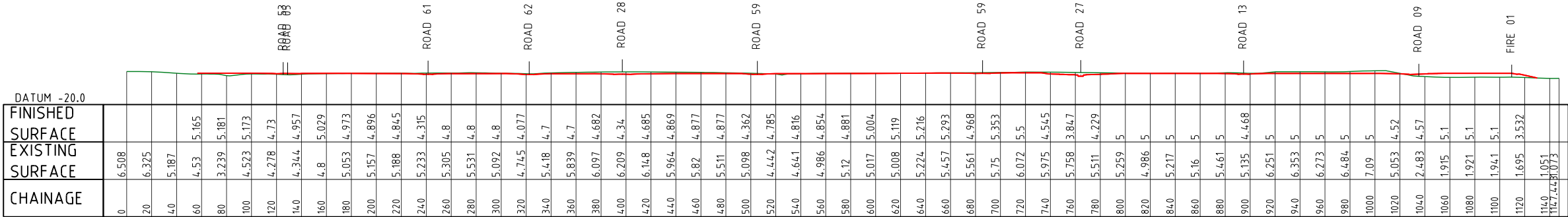


DRAWING NUMBER	AMEND.
12301-05-057	B



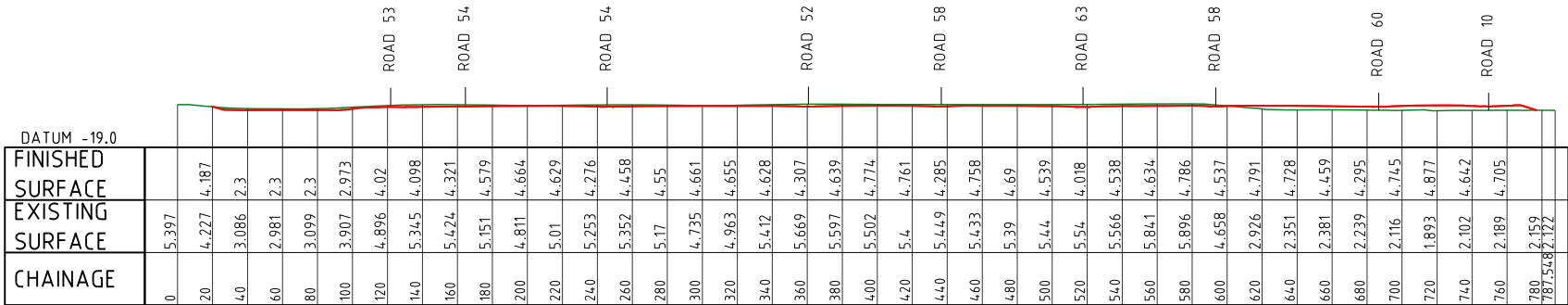
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Horizontal scale 1:2000
Vertical scale 1:2000



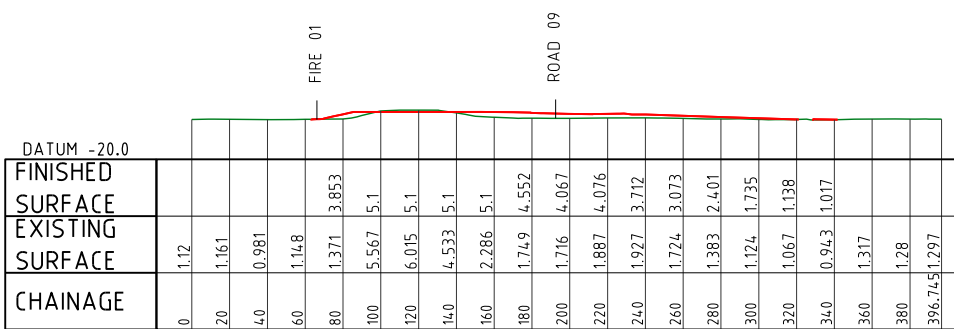
LONGITUDINAL SECTION M

Horizontal scale 1:2000
Vertical scale 1:2000



LONGITUDINAL SECTION L

Horizontal scale 1:2000
Vertical scale 1:2000



LONGITUDINAL SECTION K

Horizontal scale 1:2000
Vertical scale 1:2000

PROJECT NAME

KINGS FOREST

BULK EARTHWORKS-PRECINCTS 03, 04 & 05

PRELIMINARY-PRECINCT 05

REAL PROPERTY DESCRIPTION

Part of Lot 6 on DP875446, Part of Lot 1 on DP781633, Part of Lot 40 on DP7482 & Part of Lot 2 on DP819015

PARISH OF CUDGEN .

COUNTY OF ROUS .

CLIENT

PROJECT 28

PTY LTD

0 20 40 60 80 100m

Scale 1:2000 - A1 (1:4,000 - A3)

ISSUES	DATE	
TENDER		
STATE AUTHORITY	08-03-11	
SURVEY		
ELECTRICAL		
CONSTRUCTION		

B	27-08-12	PPR REVISIONS
A	08-03-11	STATE AUTHORITY ISSUE

PRE	DATE	AMENDMENT
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GILBERT+SUTHERLAND

agricultural and environmental scientists

DRAWING TITLE

BULK EARTHWORKS

LONGITUDINAL SECTIONS

SHEET 03

MORTONS

urbansolutions

Urban & Regional Planning

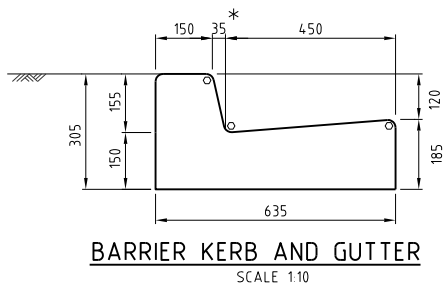
Civil Engineering

Project Coordination

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mortons@urbansolutions.net.au
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Fax: 07 5571 1088

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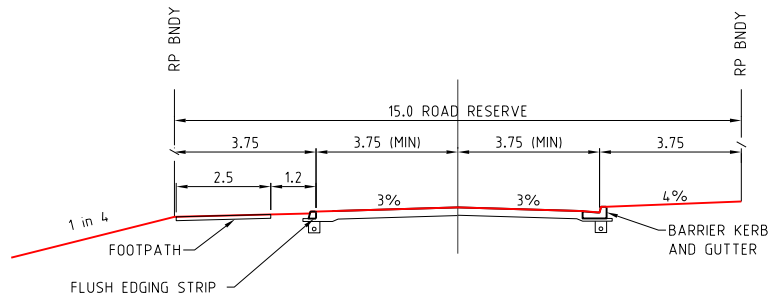
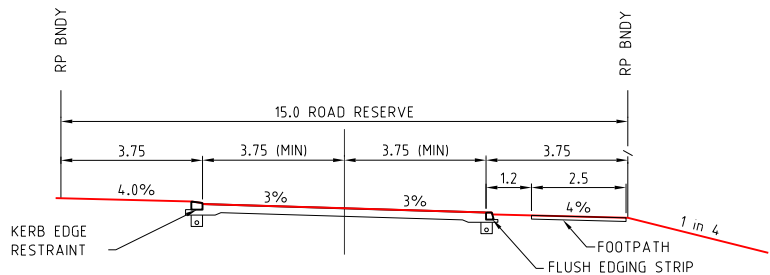
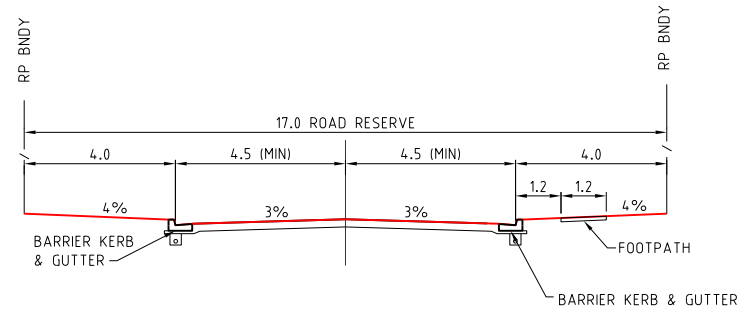
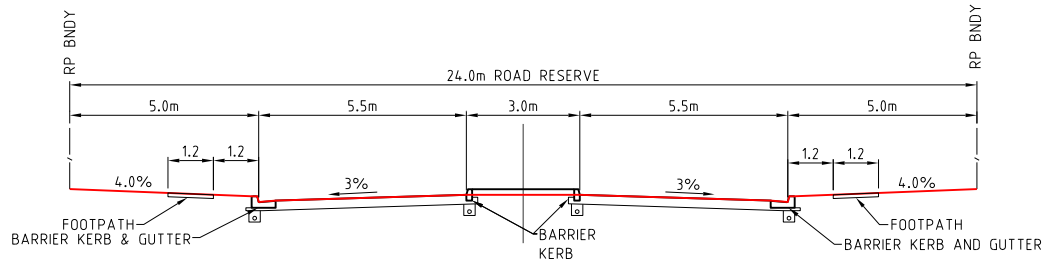
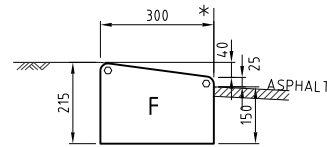
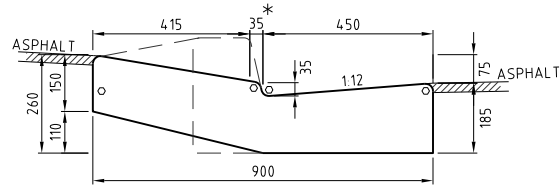
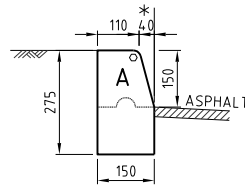
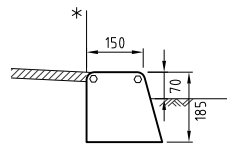
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APPROVED		DATE	06-01-11
DRAWING NUMBER		AMEND.	
12301-05-058		B	



LEGEND

* NOMINAL KERB LINE

o 20 RADIUS



PROJECT NAME
KINGS FOREST
BULK EARTHWORKS-PRECINCTS
03, 04 & 05
PRELIMINARY-PRECINCT 05

REAL PROPERTY DESCRIPTION
Part of Lot 6 on DP875446, Part of Lot 1 on DP781633,
Part of Lot 40 on DP7482 & Part of Lot 2 on DP819015
PARISH OF CUDGEN.
COUNTY OF ROUS.

CLIENT
PROJECT 28 PTY LTD

ISSUES	DATE	
TENDER		
STATE AUTHORITY	08-03-11	
SURVEY		
ELECTRICAL		
CONSTRUCTION		

B	27-08-12	PPR REVISIONS
A	08-03-11	STATE AUTHORITY ISSUE

PRE	DATE	AMENDMENT
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GILBERT+SUTHERLAND
agricultural and environmental scientists

DRAWING TITLE

TYPICAL SECTIONS
AND DETAILS
SHEET 01

MORTONS
urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination

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Suite 9, 19 Short St
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DESIGNED	RB	DRAWN	DENVER
APPROVED		DATE	12-11-09

DRAWING NUMBER	AMEND.
12301-05-090	B

