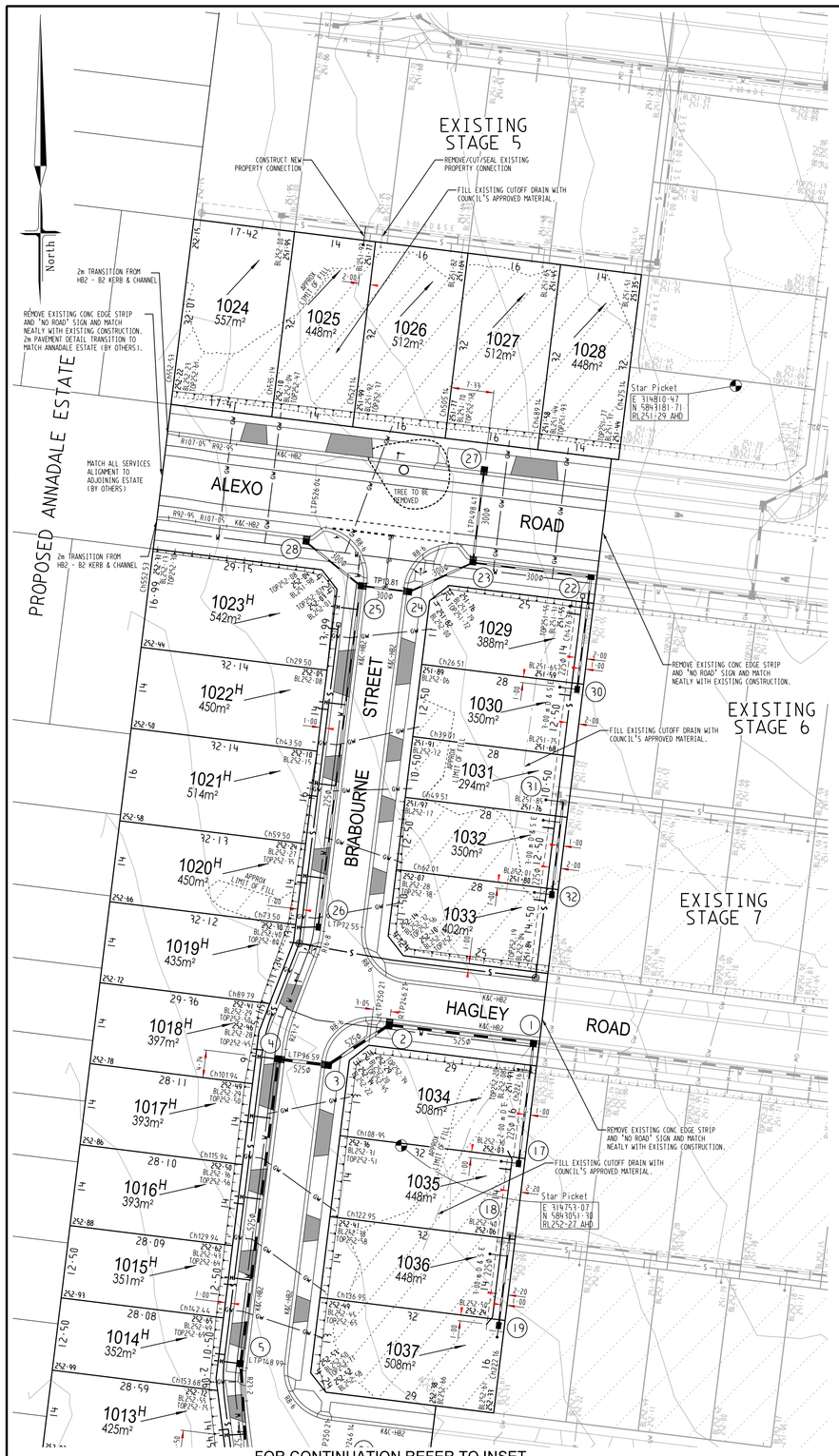
FOR CONTINUATION REFER TO LEFT



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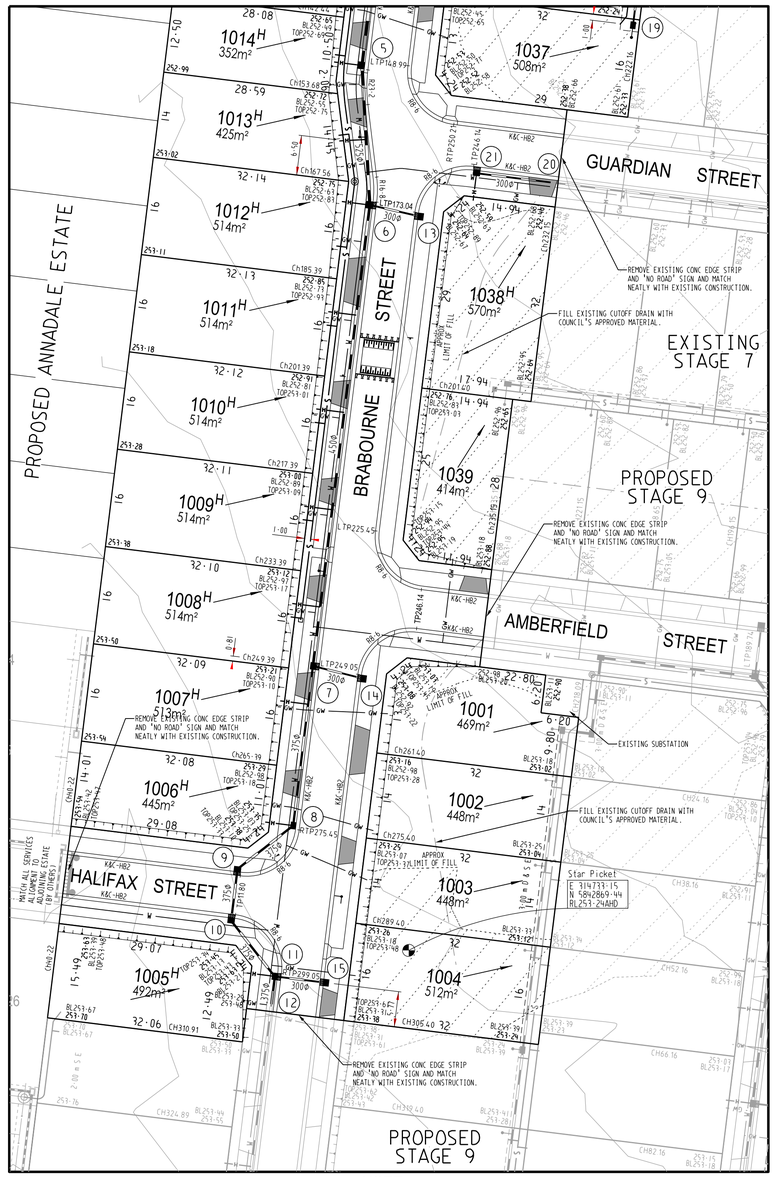
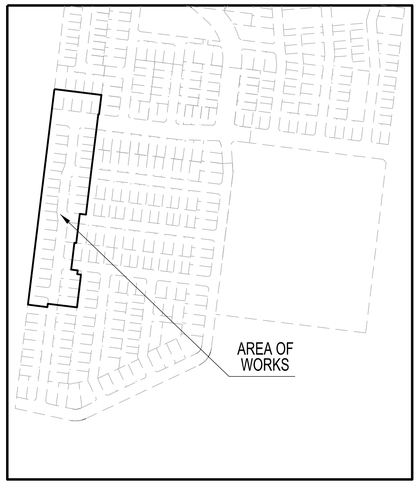


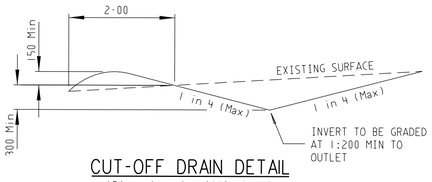
INSET

SHEET INDEX

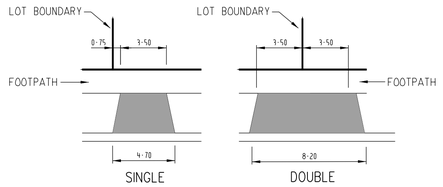
SHT No.	VER	DESCRIPTION
1	B	DETAIL PLAN, SHEET INDEX, SERVICES SCHEDULE & LOCALITY PLAN
2	A	TYPICAL CROSS SECTIONS, PAVEMENT DETAILS & NOTES
3	A	INTERSECTION DETAILS
4	A	INTERSECTION DETAILS
5	A	INTERSECTION DETAILS
6	A	LONGITUDINAL SECTION - ALEXO ROAD & BRABOURNE STREET
7	A	LONGITUDINAL SECTION - HAGLEY ROAD, GUARDIAN STREET, AMBERFIELD STREET & HALIFAX STREET
8	A	CROSS SECTIONS - BRABOURNE STREET
9	A	CROSS SECTIONS - BRABOURNE STREET
10	A	CROSS SECTIONS - ALEXO ROAD
11	A	CROSS SECTIONS - HAGLEY ROAD, GUARDIAN STREET, AMBERFIELD STREET & HALIFAX STREET
12	A	DRAINAGE LONGITUDINAL SECTIONS
13	A	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
14	A	PARKING AND SIGNAGE & LINEMARKING PLAN



LOCALITY PLAN
NTS
MELWAYS: 366 D5



CUT-OFF DRAIN DETAIL
(Dimensions in millimetres)
(N.T.S.)



DRIVEWAY PLAN
NOT TO SCALE

PLAN
SCALE 1:500

SCALE 1 : 500

10 5 0 10 20 40

LENGTHS ARE IN METRES

APPROVED ON BEHALF OF HUME CITY COUNCIL

Name: Danilo Isma
Title: Senior Subdivisions Engineer
Signed:
10/04/2018

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.

ATTENTION TO CONTRACTOR

1. **IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.**
2. Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SERVICES OFFSETS AND LOCATIONS

STREET/LOT NAME	Rd.RESERVE	WATER DW	WATER NDW	GAS	ELECTRICITY CABLES	ELECTRICITY POLES	NBN NBN CABLES	NBN NBN PITS	Bk. of KERB	JOINT TRENCHING
ALEXO ROAD (EAST OF BRABOURNE ST)	25·00	3·35 S	2·75 S	2·25 S	2·50 N	1·00 BOK	1·85 N	1·85 S	4·85 N 4·85 S	G DW NDW & E NBN
ALEXO ROAD (WEST OF BRABOURNE ST)	25·00	3·85 S	2·95 S	2·25 S	2·30 N	1·00 BOK	1·80 N	1·85 S	VARIES	G DW NDW & E NBN
BRABOURNE STREET	16·00	3·20 W	2·70 W	2·25 W	2·50 E	1·00 BOK	1·85 E	1·85 W	4·35 W 4·05 E	G DW NDW & E NBN
HAGLEY ROAD	16·00	3·20 S	2·70 S	2·25 S	2·50 N	1·00 BOK	1·85 N	1·85 S	4·35 S 4·05 N	G DW NDW & E NBN
GUARDIAN STREET	16·00	3·20 S	2·70 S	2·25 S	2·50 N	1·00 BOK	1·85 N	1·85 S	4·35 S 4·05 N	G DW NDW & E NBN
AMBERFIELD STREET	16·00	3·20 S	2·70 S	2·25 S	2·50 N	1·00 BOK	1·85 N	1·85 S	4·35 S 4·05 N	G DW NDW & E NBN
HALIFAX STREET	16·00	3·10 S	2·60 S	2·20 S	2·30 N	1·00 BOK	1·80 N	1·85 S	4·35 S 4·05 N	G DW NDW & E NBN

SYMBOL LEGEND

Prop / Exist

Drains
Sewer <300
Sewer >300
Water
House Drain
Property Inlet
Street Sign
PSM
Retaining Wall
Conduits 50mm
Conduits 100mm
Ex Gas/Elect/Tel

Ex/Natural/FS Level
FS @ Building Line
Top/Toe of Batter
Top Ret. Wall Level
100yr Flood Level
Fill Prop/Ex
Cut Prop/Ex

VER.	DATE	REMARKS
B	10-04-18	EXISTING SEWER ADJACENT LOTS 1005-1007 SHOWN
A	03-04-18	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

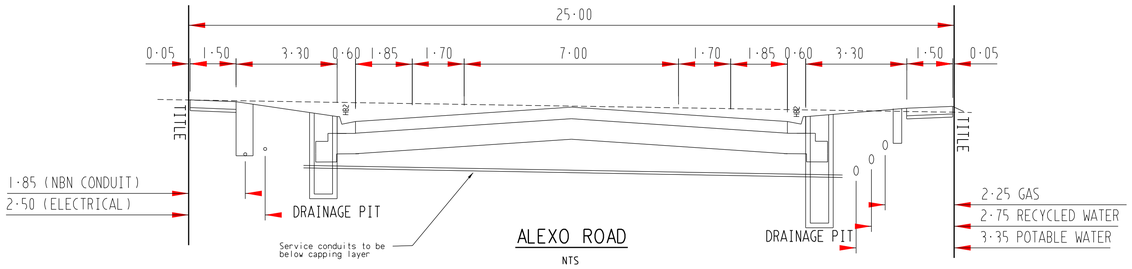
WARATAH ESTATE STAGE 10

MUNICIPALITY: HUME
REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 1 OF 14 | B

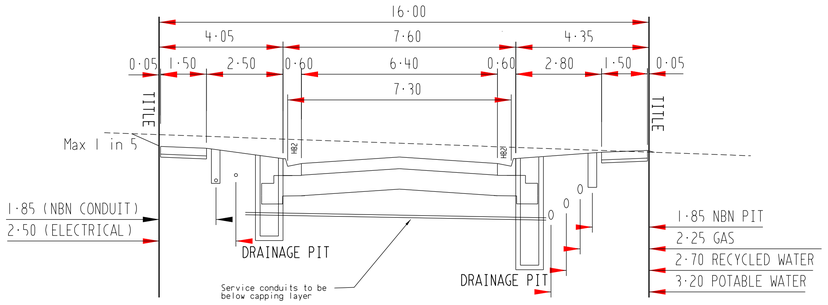
Plotted:10-Apr-18

I:\8711\ENG\STIOE10_RDI_DET.dgn



ALEXO ROAD

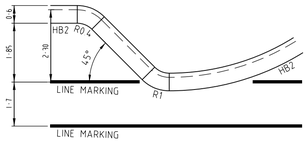
NTS



BRABOURNE STREET, HAGLEY ROAD

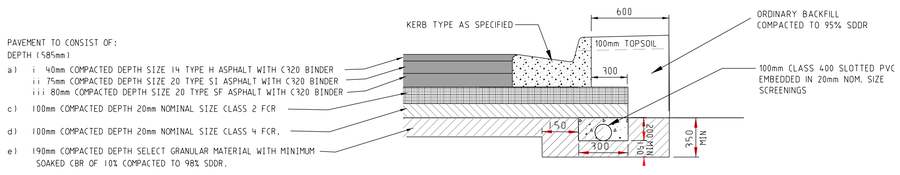
GUARDIAN STREET, AMBERFIELD STREET & HALIFAX STREET

NTS



PARKING BAY TRANSITION AND LINEMARKING DETAIL(ALEXO ROAD)

NTS



PAVEMENT TO CONSIST OF:
DEPTH (585mm)

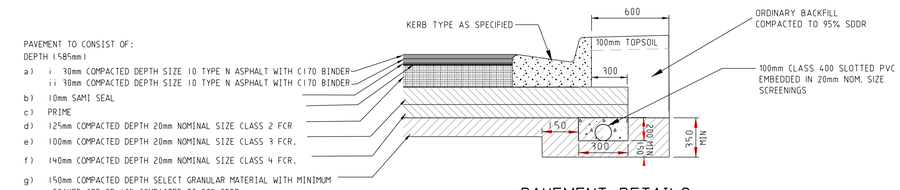
a) i 40mm COMPACTED DEPTH SIZE 14 TYPE H ASPHALT WITH C320 BINDER
   ii 75mm COMPACTED DEPTH SIZE 20 TYPE S1 ASPHALT WITH C320 BINDER
   iii 80mm COMPACTED DEPTH SIZE 20 TYPE SF ASPHALT WITH C320 BINDER
b) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FCR
d) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 4 FCR.
e) 190mm COMPACTED DEPTH SELECT GRANULAR MATERIAL WITH MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% SDDR.

SUBGRADE

SILTY CLAY COMPACTED TO AT LEAST 100% STD DRY DENSITY RATIO (SOAKED C.B.R > 2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.

PAVEMENT DETAILS

ALEXO ROAD



PAVEMENT TO CONSIST OF:
DEPTH (585mm)

a) i 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH C170 BINDER
   ii 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH C170 BINDER
b) 10mm SAMI SEAL
c) PRIME
d) 125mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FCR
e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 FCR.
f) 140mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 4 FCR.
g) 150mm COMPACTED DEPTH SELECT GRANULAR MATERIAL WITH MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% SDDR.

SUBGRADE

SILTY CLAY COMPACTED TO AT LEAST 100% STD DRY DENSITY RATIO (SOAKED C.B.R > 2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.

PAVEMENT DETAILS

BRABOURNE STREET, HAGLEY ROAD

GUARDIAN STREET, AMBERFIELD STREET & HALIFAX STREET

NTS

NOTE:THE MATERIAL TO BE USED AS "SELECTED GRANULAR MATERIAL" IS TO BE SUBMITTED TO THE CONSULTANT AND COUNCIL FOR APPROVAL PRIOR TO TENDER SUBMISSION.ADDITIONAL COSTS WILL NOT BE CONSIDERED POST TENDER.

NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE DEVELOPER'S CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING.
3. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
   a) SOURCE OF QUARRY MATERIAL
   b) N.A.T.A. APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED
   c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
5. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
6. THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
7. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
8. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
9. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
10. ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
11. THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE MPA MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
12. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
13. FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
15. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
16. NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
17. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
18. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT.
19. ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
20. PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED WITH A SEED MIX OF 40KG/HA KIKUYU, 200KG/HA TURF TYPE PERENNIAL RYE, 100KG/HA CREEPING RED FESCUE AND 1,500KG/HA OF CELLULOSE FIBRE AND A SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES.(E.G. ORGANIC GAUR TACKIFIERS @ 20-30KG/HA, BASED UPON SITE CONDITIONS). PLEASE NOTE BITUMEN BINDERS ARE NOT ACCEPTED BY COUNCIL.
    GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
21. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
22. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
23. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
24. SERVICE CONDUITS TRENCHES UNDER DRIVEWAYS AND FOOTPATHS ARE TO BE 50MM P.V.C. LAYED 450mm DEEP AND EXTENDING 250mm EACH SIDE OF DRIVEWAYS/FOOTPATHS.
    ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
25. ALL STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
26. WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
27. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
28. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
29. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
30. ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 F.C.R. COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003.
31. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
32. ALL EXISTING ASSETS AFFECTED BY THE WORKS (SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING) SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
33. ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E.). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
34. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD282.
35. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
36. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING SD408 AND TO BE MOUNTED ON STREET LIGHT POLES WHERE POSSIBLE.
37. ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743-2001.
39. HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
40. LOTS DENOTED THUS 36H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN CONNECTION TO BE LAID AT AN OFFSET OF 6.0M FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0M FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.
41. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CENTRELINE OF PITS AT KERB T.P.'s TO BE 1.20m OFF T.P.
42. BATTERS SHALL BE IN 1 IN 5 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN.
43. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
44. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
45. TELSTRA/NBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
46. LOCATION OF GAS, WATER AND TELSTRA/NBN Co CONDUITS ARE TO BE APPROPRIATELY MARKED ON THE FACE OF THE KERB AND CHANNEL WITH G, W, T AND O RESPECTIVELY. ALL CONDUIT ENDS SHALL BE SECURELY PLUGGED. TELSTRA/NBN Co, GAS & WATER CONDUITS TO BE 50mm CLASS 12 UPVC.
47. ALL DRIVEWAYS ARE TO BE CONSTRUCTED AS PER VPA EDCM 501 AND EDCM 502 UNLESS OTHERWISE SHOWN.
48. ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 4 TO THE SATISFACTION OF THE ENGINEER.
49. CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING, STRUTTING AND DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORKS.
50. ALL CONCRETE TO BE 25MPa UNLESS OTHERWISE SPECIFIED.
51. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM,s AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
52. KERB TYPE TO BE USED AS SHOWN.
53. STANDARD FOOTPATH AS PER VPA EDCM 401.
54. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.
55. EXISTING DAM OR WATERCOURSE TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM/WATERCOURSE ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAM/WATERCOURSES BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.

AMENDMENTS			
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

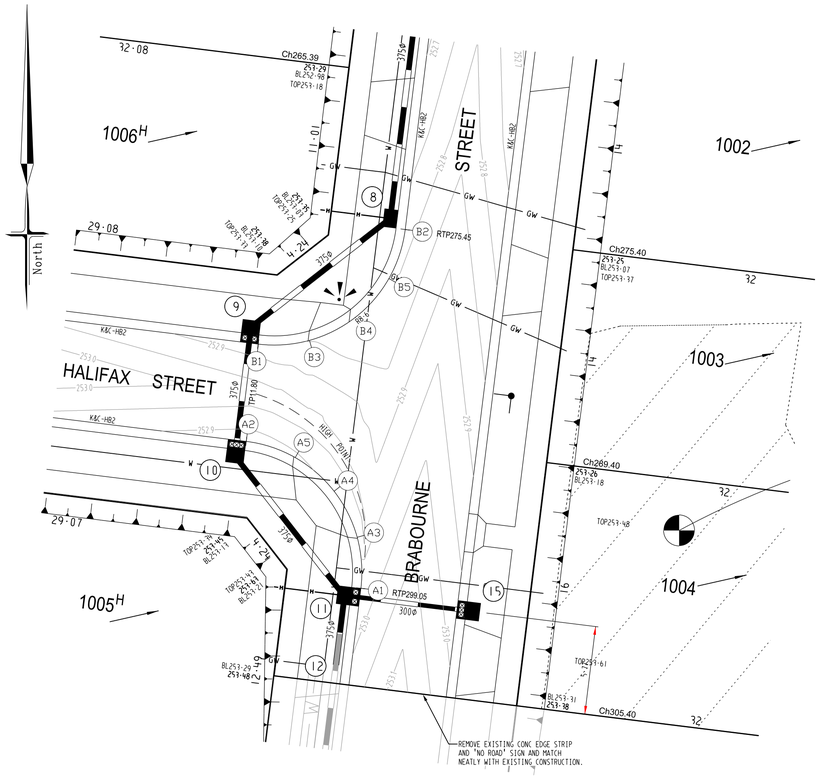
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE: AS SHOWN | DATUM: AHD | DATE: DEC' 17 | SHEET 2 OF 14 | A

Plotted:02-Apr-18

I:\W8711\ENGS\STD\E10_R02_NOT.dgn



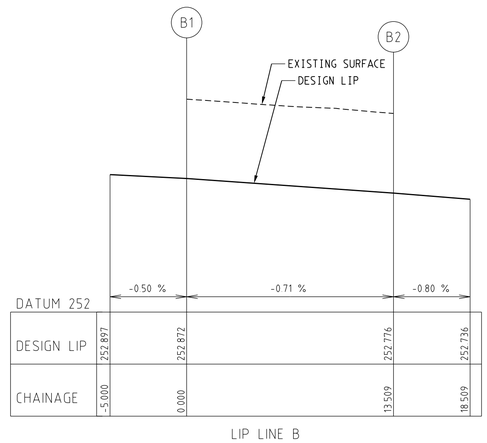
INTERSECTION DETAILS

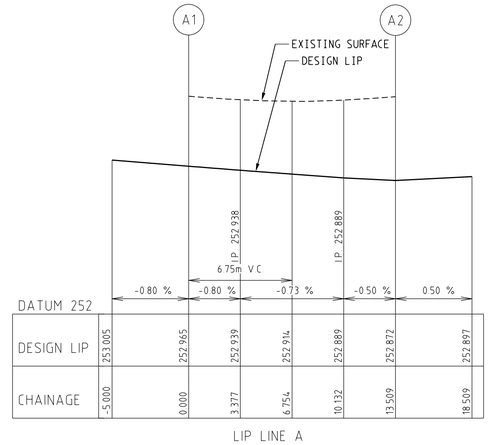
SCALE 1:200

SCALE 1 : 200

4 2 0 4 8 16

LENGTHS ARE IN METRES





LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:40

Alignment A

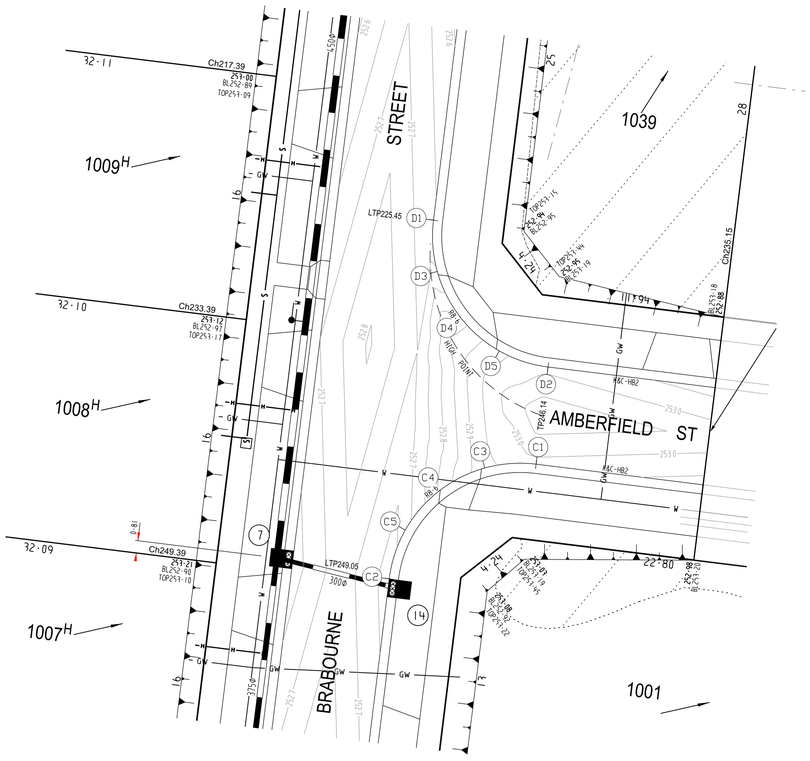
	Point no	Easting	Northing	RL
A	1	314712.367	5842865.643	252.965
A	2	314704.886	5842876.233	252.872
A	3	314712.121	5842868.990	252.939
A	4	314710.613	5842871.987	252.914
A	5	314708.072	5842874.180	252.889

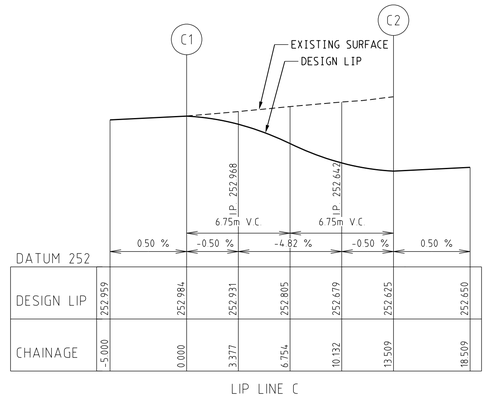
	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
A	1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.914

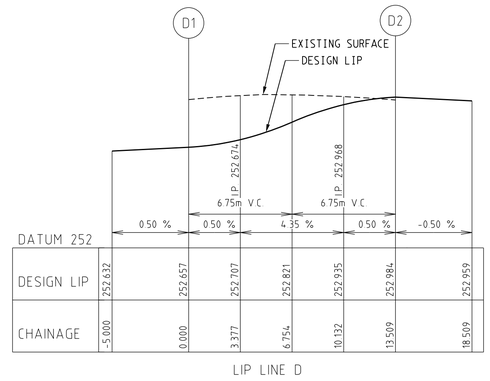
Alignment B

	Point no	Easting	Northing	RL
B	1	314705.671	5842881.585	252.872
B	2	314715.260	5842889.065	252.776
B	3	314709.017	5842881.831	252.848
B	4	314712.015	5842883.339	252.824
B	5	314714.207	5842885.879	252.800

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
B	1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.824







LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:40

Alignment C

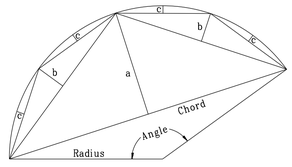
	Point no	Easting	Northing	RL
C	1	314734.438	5842921.963	252.984
C	2	314724.848	5842914.482	252.625
C	3	314731.091	5842921.716	252.931
C	4	314728.094	5842920.208	252.805
C	5	314725.902	5842917.668	252.679

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
C	1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.805

Alignment D

	Point no	Easting	Northing	RL
D	1	314727.742	5842937.904	252.657
D	2	314735.222	5842928.314	252.984
D	3	314727.988	5842934.557	252.707
D	4	314729.496	5842931.560	252.821
D	5	314732.036	5842929.367	252.935

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
D	1 2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	252.821



CURVE SETOUT DIAGRAM

AMENDMENTS			
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	766-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 3 OF 14 | A

Plotted:02-Apr-18

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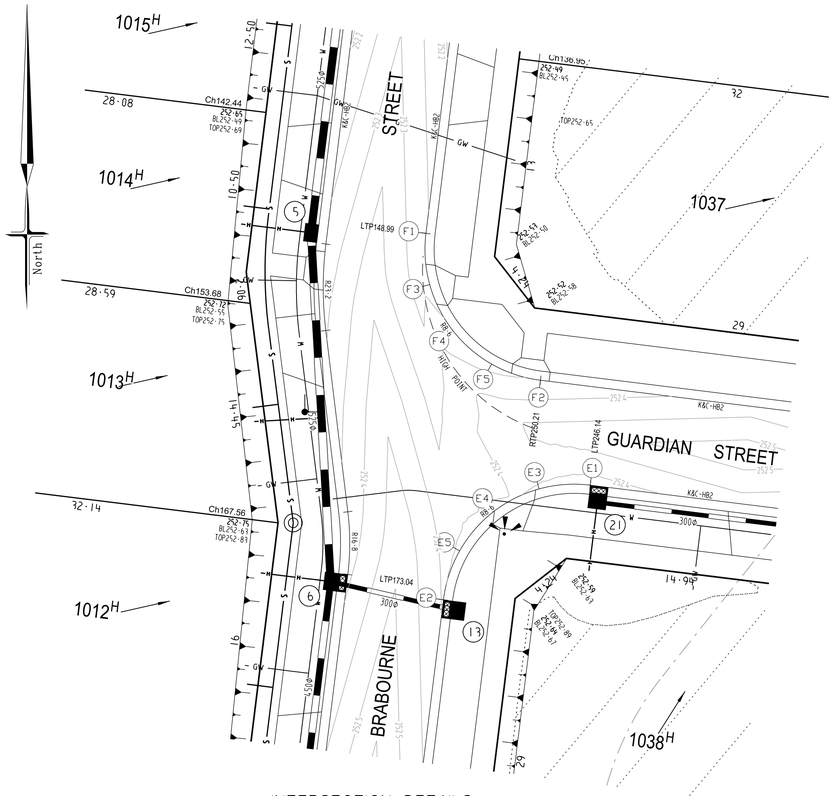


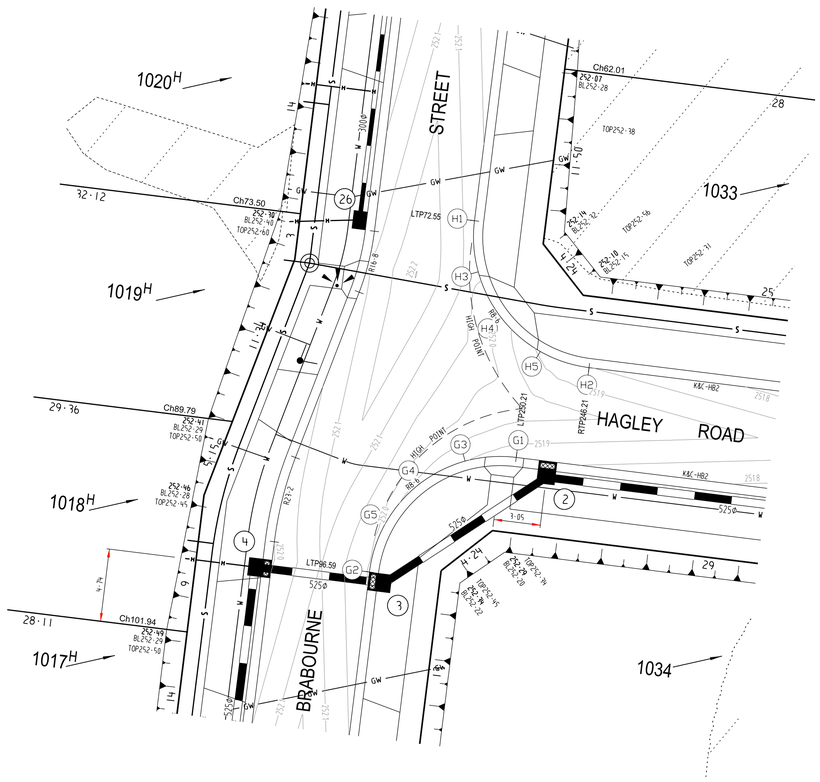
INTERSECTION DETAILS

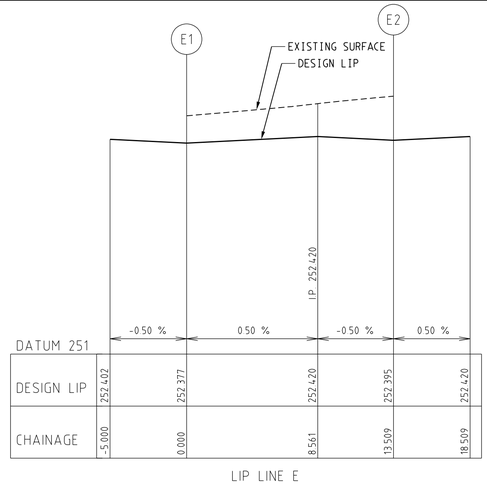
SCALE 1:200

SCALE 1 : 200

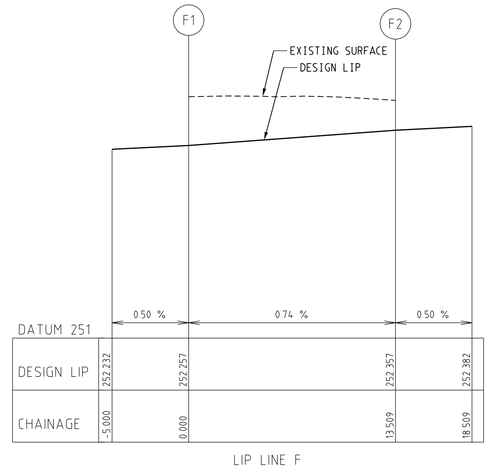
4 2 0 4 8 16

LENGTHS ARE IN METRES





LIP LINE E



LIP LINE F

LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:40

Alignment E

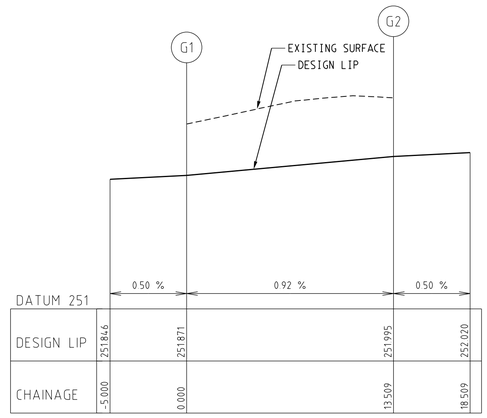
	Point no	Easting	Northing	RL
E	1	314743·756	5842997·397	252·377
E	2	314734·166	5842989·916	252·395
E	3	314740·409	5842997·150	252·394
E	4	314737·412	5842995·642	252·411
E	5	314735·219	5842993·102	252·412

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
E	1 2	-90·000	-8·600	13·509	2·519	1·864	2·790	3·291	3·377	252·411

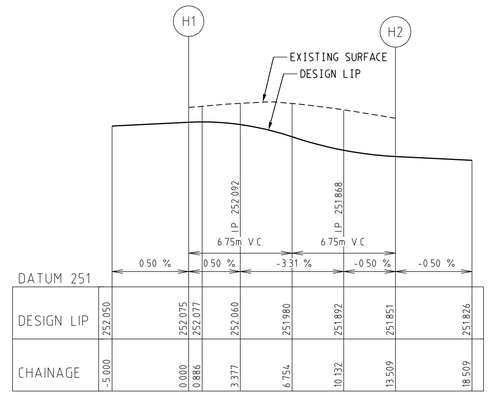
Alignment F

	Point no	Easting	Northing	RL
F	1	314733·025	5843013·836	252·257
F	2	314740·505	5843004·247	252·357
F	3	314733·271	5843010·490	252·282
F	4	314734·779	5843007·492	252·307
F	5	314737·319	5843005·300	252·332

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
F	1 2	-90·000	-8·600	13·509	2·519	1·864	2·790	3·291	3·377	252·307



LIP LINE G



LIP LINE H

LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:40

Alignment G

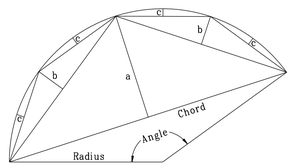
	Point no	Easting	Northing	RL
G	1	314749·038	5843073·322	251·871
G	2	314739·448	5843065·841	251·995
G	3	314745·691	5843073·075	251·982
G	4	314742·694	5843071·567	251·933
G	5	314740·502	5843069·027	251·964

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
G	1 2	-90·000	-8·600	13·509	2·519	1·864	2·790	3·291	3·377	251·933

Alignment H

	Point no	Easting	Northing	RL
H	1	314746·311	5843088·772	252·075
H	2	314753·792	5843079·183	251·851
H	3	314746·558	5843085·426	252·060
H	4	314748·066	5843082·428	251·980
H	5	314750·606	5843080·236	251·892

	Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
H	1 2	-90·000	-8·600	13·509	2·519	1·864	2·790	3·291	3·377	251·980



CURVE SETOUT DIAGRAM

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

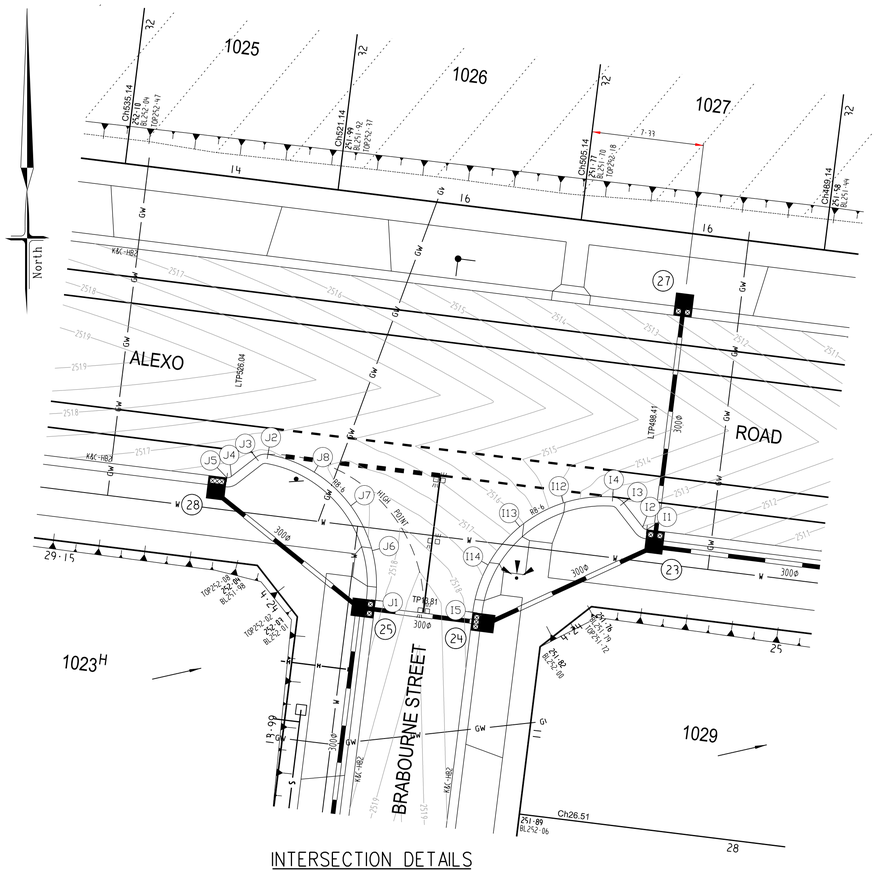
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 4 OF 14 | A

I:\V8711\ENG\ST10\E10_R04_INT2.dgn

Plotted:02-Apr-18



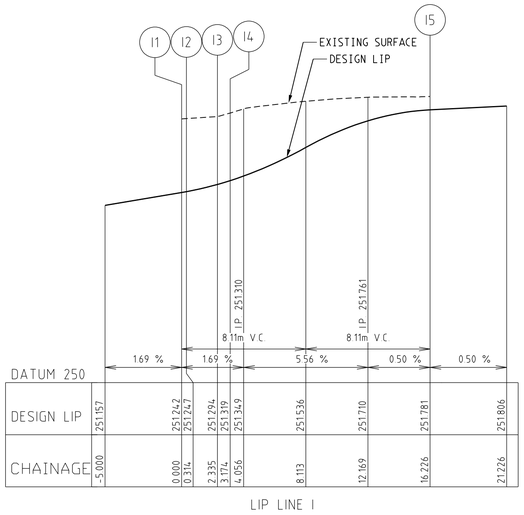
INTERSECTION DETAILS

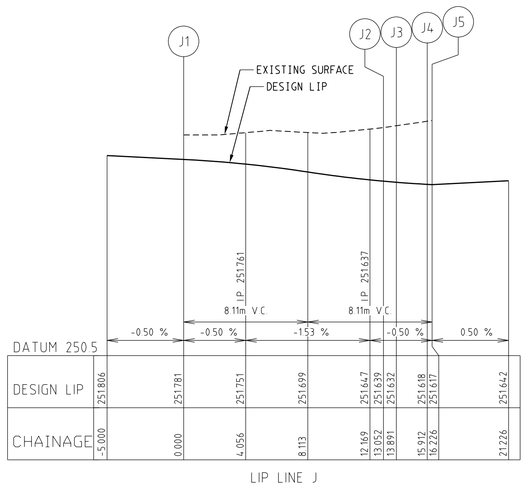
SCALE 1:200

SCALE 1 : 200

4 2 0 4 8 16

LENGTHS ARE IN METRES





LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:40

Alignment I

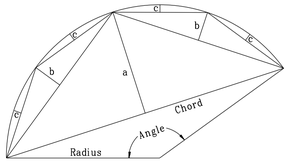
	Point no	Easting	Northing	RL
I	1	314764.876	5843152.470	251.242
I	2	314764.609	5843152.621	251.247
I	3	314763.366	5843154.214	251.294
I	4	314762.648	5843154.597	251.319
I	5	314753.513	5843147.072	251.781
I	6	314764.799	5843152.487	251.243
I	7	314764.728	5843152.519	251.244
I	8	314764.664	5843152.564	251.246
I	9	314763.221	5843154.365	251.300
I	10	314763.048	5843154.482	251.306
I	11	314762.854	5843154.560	251.313
I	12	314759.427	5843154.209	251.449
I	13	314756.580	5843152.656	251.616
I	14	314754.510	5843150.158	251.732

	Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
I	1	2	45.000	0.400	0.314	0.030	0.023	0.075	0.078	0.079	251.244
I	3	4	-48.043	-1.000	0.839	0.087	0.065	0.199	0.208	0.210	251.306
I	4	5	-86.957	-8.600	13.052	2.360	1.748	2.732	3.185	3.263	251.616

Alignment J

	Point no	Easting	Northing	RL
J	1	314747.161	5843147.857	251.781
J	2	314740.132	5843157.378	251.639
J	3	314739.342	5843157.182	251.632
J	4	314737.748	5843155.939	251.618
J	5	314737.453	5843155.857	251.617
J	6	314746.944	5843151.093	251.758
J	7	314745.545	5843154.019	251.722
J	8	314743.161	5843156.218	251.675
J	9	314739.923	5843157.393	251.637
J	10	314739.716	5843157.364	251.635
J	11	314739.519	5843157.293	251.634
J	12	314737.682	5843155.897	251.618
J	13	314737.609	5843155.869	251.618
J	14	314737.531	5843155.855	251.617

	Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
J	1	2	-86.957	-8.600	13.052	2.360	1.748	2.732	3.185	3.263	251.722
J	2	3	-48.043	-1.000	0.839	0.087	0.065	0.199	0.208	0.210	251.635
J	4	5	45.000	0.400	0.314	0.030	0.023	0.075	0.078	0.079	251.618



CURVE SETOUT DIAGRAM

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

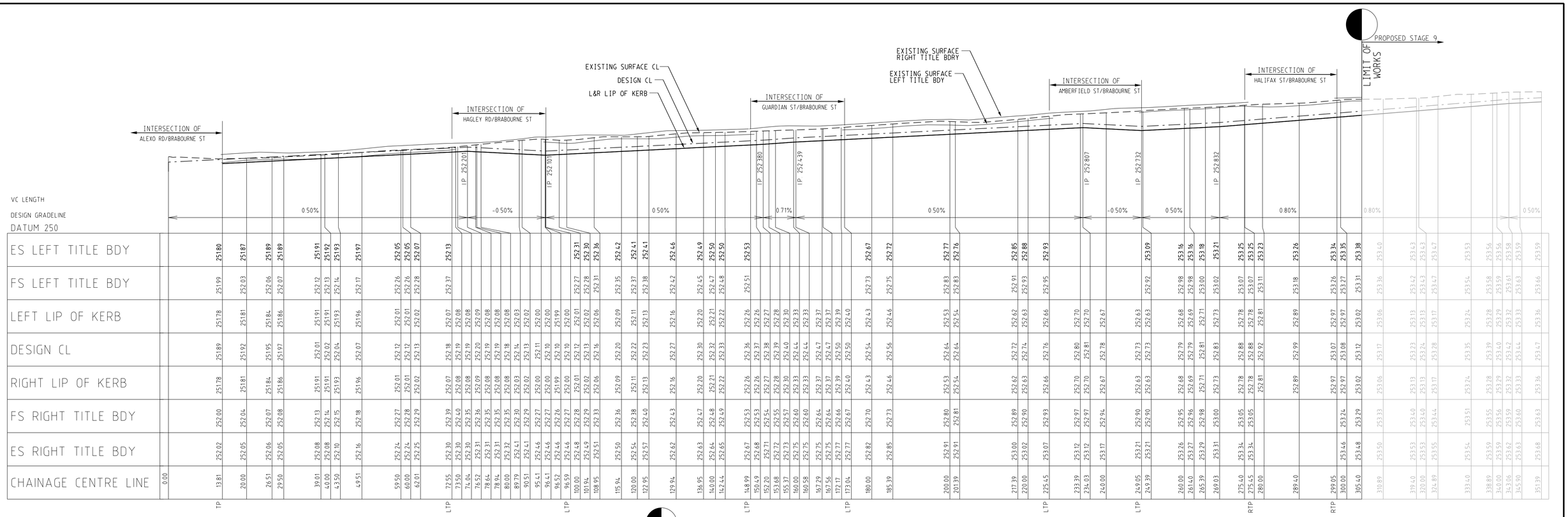
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

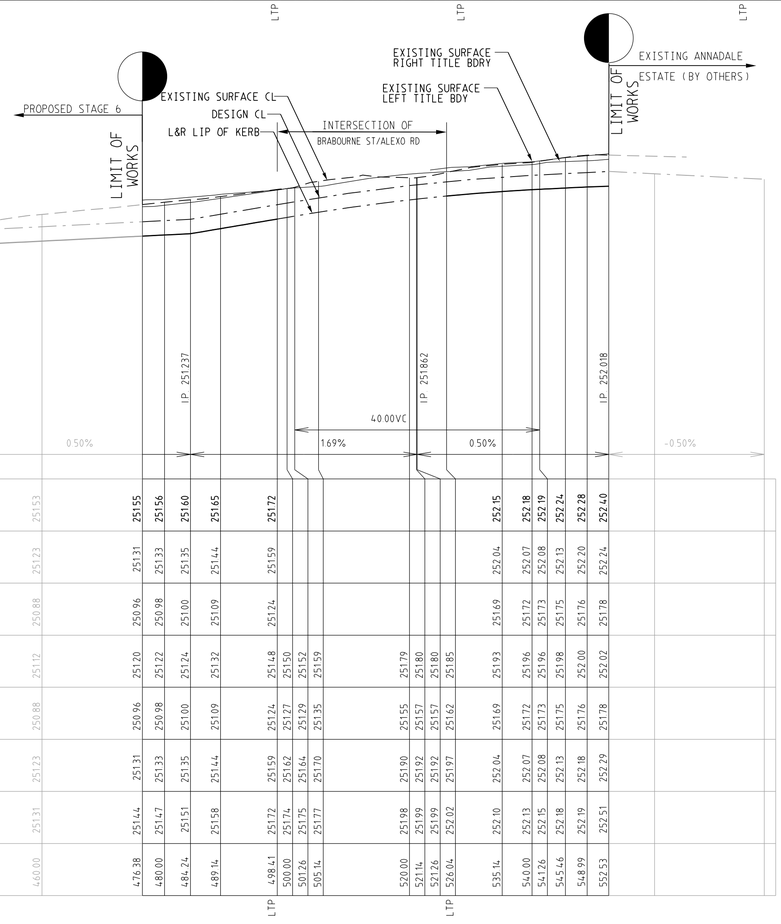
SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 5 OF 14 | A

Plotted:02-Apr-18

I:\V8711\ENGS\STIO\E10_R05_INTS.dgn



BRABOURNE STREET



ALEXO ROAD

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

VER.	DATE	REMARKS

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE STAGE 10

MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE: AS SHOWN | DATUM: AHD | DATE: DEC' 17 | SHEET 6 OF 14 | A

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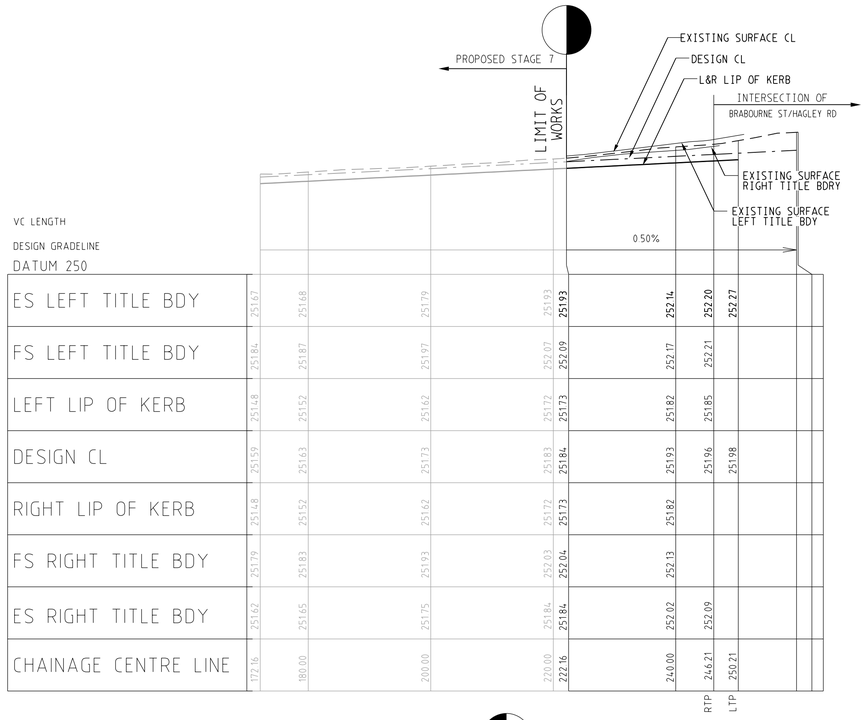
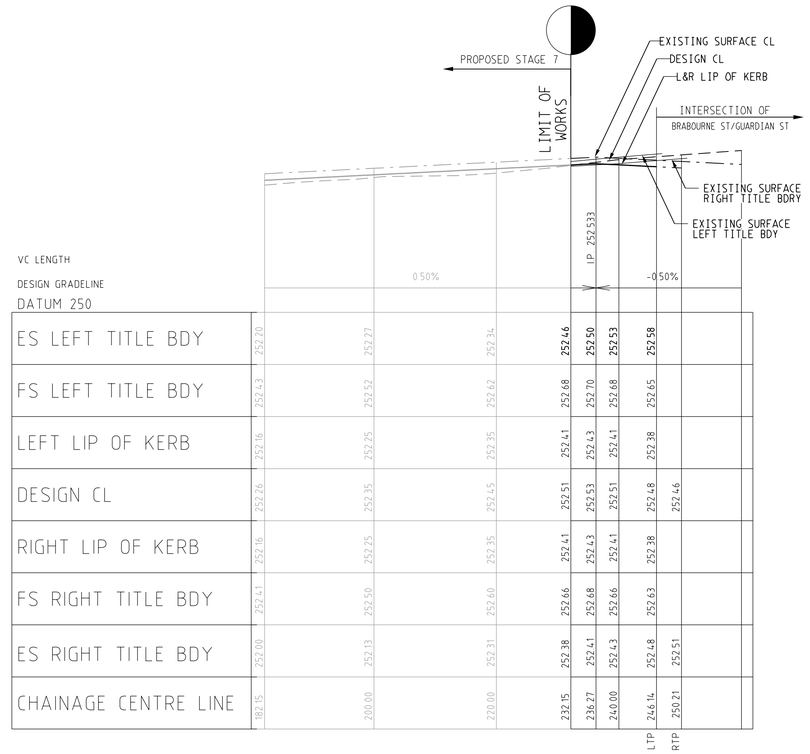
Plotted:02-Apr-18



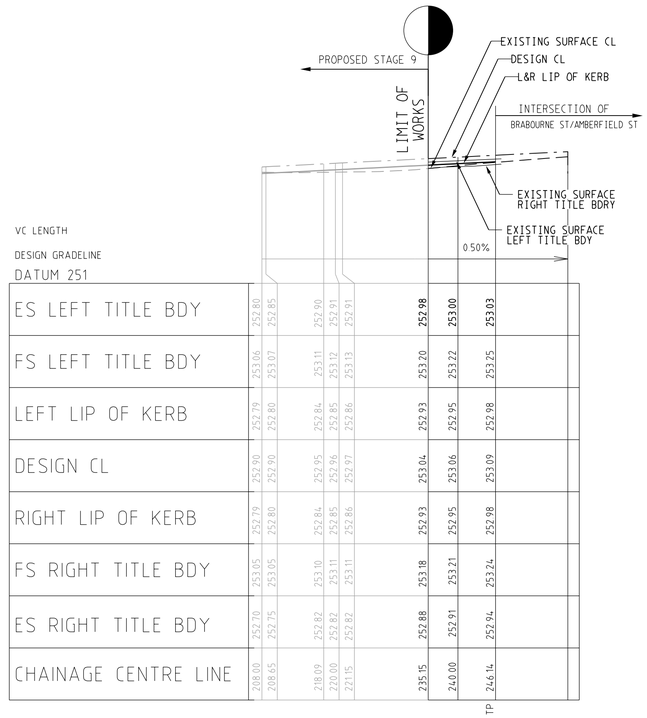
ES LEFT TITLE BDY	25167	25168	25179	25193	25193	252.14	252.20	252.27		
FS LEFT TITLE BDY	25184	25187	25197	252.07	252.09	252.17	252.21			
LEFT LIP OF KERB	25148	25152	25162	25172	25173	25182	25185			
DESIGN CL	25159	25163	25173	25183	25184	25193	25196	25198		
RIGHT LIP OF KERB	25148	25152	25162	25172	25173	25182				
FS RIGHT TITLE BDY	25179	25183	25193	252.03	252.04	252.13				
ES RIGHT TITLE BDY	25162	25165	25175	25184	25184	252.02	252.09			
CHAINAGE CENTRE LINE	172.16	180.00	200.00	220.00	222.16	240.00	246.21	250.21		

HAGLEY ROAD



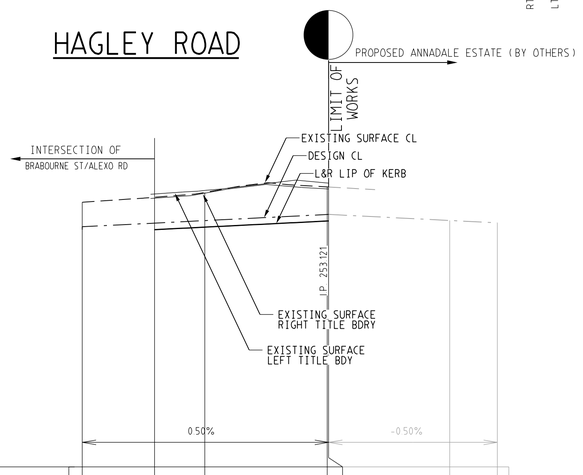
ES LEFT TITLE BDY	252.20	252.27	252.34	252.46	252.50	252.53	252.58			
FS LEFT TITLE BDY	252.43	252.52	252.62	252.68	252.70	252.68	252.65			
LEFT LIP OF KERB	252.16	252.25	252.35	252.41	252.43	252.41	252.38			
DESIGN CL	252.26	252.35	252.45	252.51	252.53	252.51	252.48	252.46		
RIGHT LIP OF KERB	252.16	252.25	252.35	252.41	252.43	252.41	252.38			
FS RIGHT TITLE BDY	252.41	252.50	252.60	252.66	252.68	252.66	252.63			
ES RIGHT TITLE BDY	252.00	252.13	252.31	252.38	252.41	252.43	252.48	252.51		
CHAINAGE CENTRE LINE	182.15	200.00	220.00	232.15	236.27	240.00	246.14	250.21		

GUARDIAN STREET



ES LEFT TITLE BDY	252.80	252.85	252.90	252.98	253.00	253.03				
FS LEFT TITLE BDY	253.06	253.07	253.11	253.20	253.22	253.25				
LEFT LIP OF KERB	252.79	252.80	252.84	252.93	252.95	252.98				
DESIGN CL	252.90	252.90	252.95	253.04	253.06	253.09				
RIGHT LIP OF KERB	252.79	252.80	252.84	252.93	252.95	252.98				
FS RIGHT TITLE BDY	253.05	253.05	253.10	253.18	253.21	253.24				
ES RIGHT TITLE BDY	252.70	252.75	252.82	252.88	252.91	252.94				
CHAINAGE CENTRE LINE	208.00	208.65	218.09	235.15	240.00	246.14				

AMBERFIELD STREET



ES LEFT TITLE BDY		253.45	253.51	253.63	253.63	
FS LEFT TITLE BDY		253.14	253.18	253.39	253.39	
LEFT LIP OF KERB		252.87	252.91	253.01	253.01	
DESIGN CL		252.98	253.02	253.12	253.12	
RIGHT LIP OF KERB		252.87	252.91	253.01	253.01	
FS RIGHT TITLE BDY		253.13	253.17	253.42	253.42	
ES RIGHT TITLE BDY		253.39	253.47	253.54	253.54	
CHAINAGE CENTRE LINE	0.00	11.80	20.00	40.00	40.22	

HALIFAX STREET

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

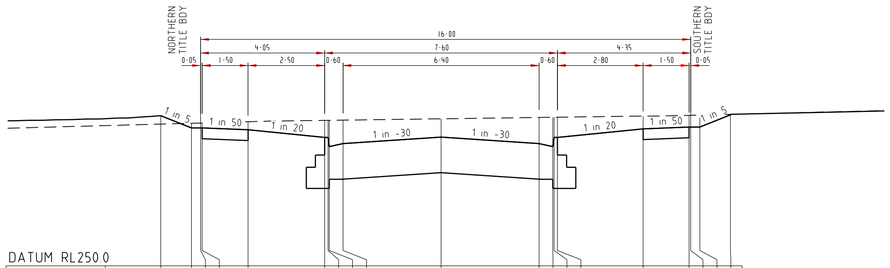
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 7 OF 14 | A

I:\WBT11\ENG\ST10\E10_RDT_LS2.dgn

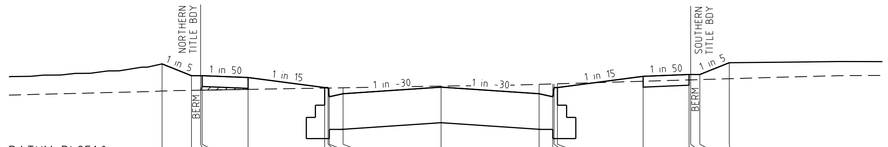
Plotted:22-Apr-18



DATUM RL250.0

DESIGN SURFACE	252.45	252.25	252.25	252.25	252.22	252.10	252.10	251.95	252.00	252.10	252.00	251.95	252.10	252.10	252.24	252.27	252.27	252.27	252.27	252.47
EXISTING SURFACE	252.31	252.33	252.33	252.33	252.35	252.37	252.37	252.37	252.38	252.40	252.42	252.42	252.42	252.43	252.44	252.46	252.46	252.46	252.46	252.47
OFFSET	-9.15	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	9.45	

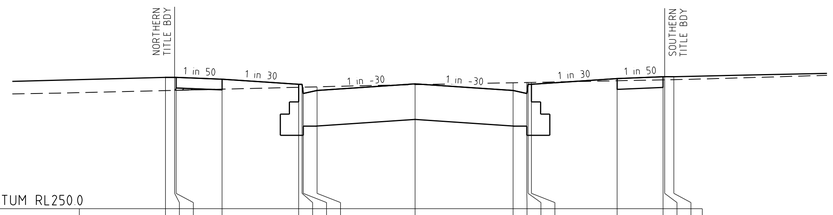
LTP Ch 96.59



DATUM RL251.0

DESIGN SURFACE	252.56	252.37	252.37	252.37	252.34	252.17	252.17	252.02	252.07	252.18	252.07	252.02	252.17	252.17	252.36	252.39	252.39	252.39	252.39	252.58
EXISTING SURFACE	252.12	252.13	252.13	252.13	252.15	252.17	252.17	252.17	252.17	252.20	252.23	252.23	252.23	252.24	252.28	252.30	252.30	252.30	252.30	252.32
OFFSET	-9.11	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	9.41	

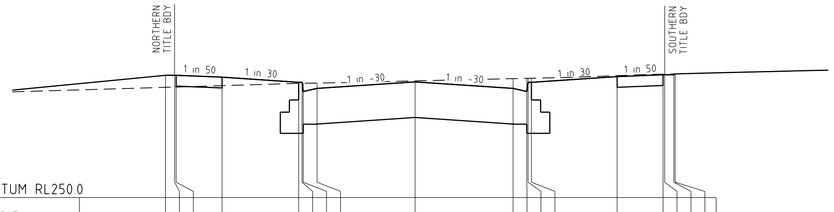
LTP Ch 72.55



DATUM RL250.0

DESIGN SURFACE	252.14	252.14	252.14	252.11	252.03	252.03	251.88	251.93	252.04	251.93	251.88	252.03	252.03	252.12	252.15	252.15	252.15	
EXISTING SURFACE	251.93	251.93	251.93	251.95	251.98	251.98	251.98	251.99	252.02	252.05	252.06	252.06	252.06	252.09	252.10	252.10	252.11	
OFFSET	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	

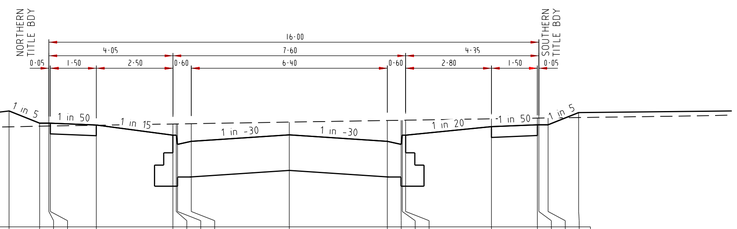
Ch 43.50



DATUM RL250.0

DESIGN SURFACE	251.99	251.99	251.99	251.96	251.88	251.88	251.73	251.78	251.89	251.78	251.73	251.88	251.88	251.97	252.00	252.00	252.00	252.00	252.02	
EXISTING SURFACE	251.80	251.80	251.80	251.83	251.86	251.87	251.87	251.87	251.90	251.94	251.95	251.95	251.95	251.99	252.01	252.01	252.02	252.02	252.02	
OFFSET	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	8.49		

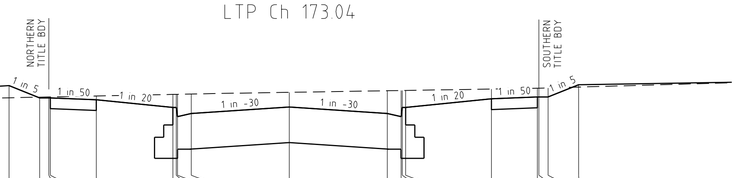
TP Ch 13.81



DATUM RL251.0

DESIGN SURFACE	252.89	252.69	252.69	252.69	252.66	252.50	252.50	252.35	252.40	252.50	252.40	252.35	252.50	252.50	252.64	252.67	252.67	252.67	252.67	252.87
EXISTING SURFACE	252.63	252.64	252.64	252.65	252.66	252.68	252.68	252.68	252.68	252.71	252.74	252.74	252.74	252.74	252.76	252.77	252.77	252.78	252.78	
OFFSET	-9.15	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	9.45	

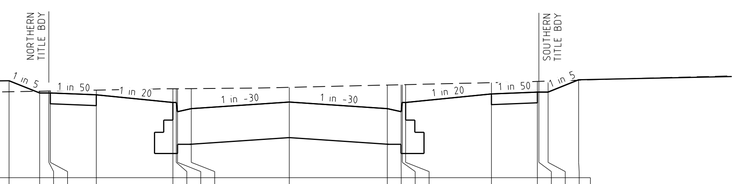
LTP Ch 173.04



DATUM RL251.0

DESIGN SURFACE	252.71	252.51	252.51	252.51	252.48	252.36	252.36	252.21	252.26	252.36	252.26	252.21	252.36	252.36	252.50	252.53	252.53	252.53	252.73	
EXISTING SURFACE	252.51	252.52	252.53	252.53	252.54	252.57	252.57	252.57	252.58	252.60	252.63	252.63	252.63	252.63	252.66	252.67	252.67	252.67	252.69	
OFFSET	-9.15	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	9.45	

LTP Ch 148.99



DATUM RL251.0

DESIGN SURFACE	252.58	252.38	252.38	252.38	252.35	252.23	252.23	252.08	252.13	252.23	252.13	252.08	252.23	252.23	252.37	252.40	252.40	252.40	252.60	
EXISTING SURFACE	252.40	252.41	252.41	252.41	252.43	252.45	252.45	252.45	252.45	252.47	252.51	252.52	252.52	252.52	252.55	252.57	252.57	252.58	252.59	
OFFSET	-9.15	-8.15	-7.85	-7.80	-6.30	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.60	8.10	8.15	8.45	9.45	

Ch 122.95

BRABOURNE STREET

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

CLASS 3 CRUSHED ROCK BACKFILL

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

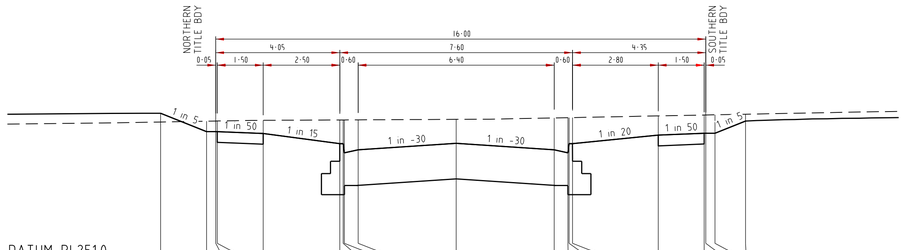
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 8 OF 14 | A

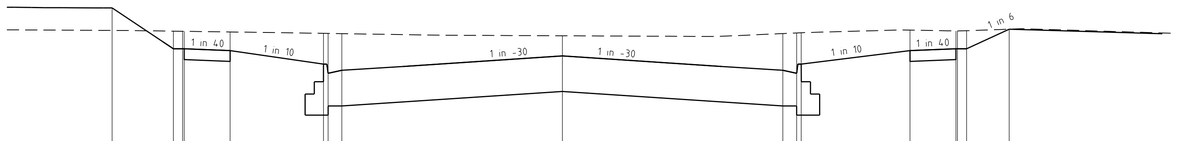
Plotted:02-Apr-18

I:\W8711\ENGVSTIONE10_R08_BR_XS1.dgn



DATUM RL251.0

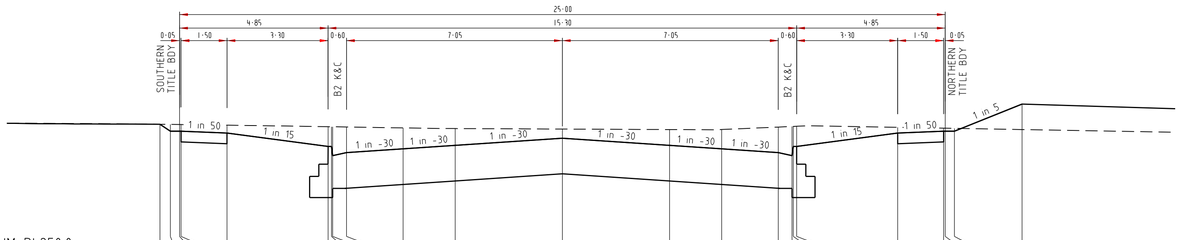
| | | |



DATUM RL250.0

DESIGN SURFACE	252.58	252.24	252.23	251.23	252.19	251.89	251.89	251.78	252.02	251.78	251.24	251.89	252.24	252.28	252.28	252.29	252.52
EXISTING SURFACE	252.38	252.40	252.40	252.40	252.40	252.41	252.41	252.41	252.42	252.46	252.46	252.47	252.50	252.51	252.51	252.51	252.52
OFFSET	-14.55	-12.55	-12.25	-12.20	-10.70	-7.65	-7.54	-7.20	0.00	7.20	7.50	7.65	11.20	12.70	12.75	13.05	14.44

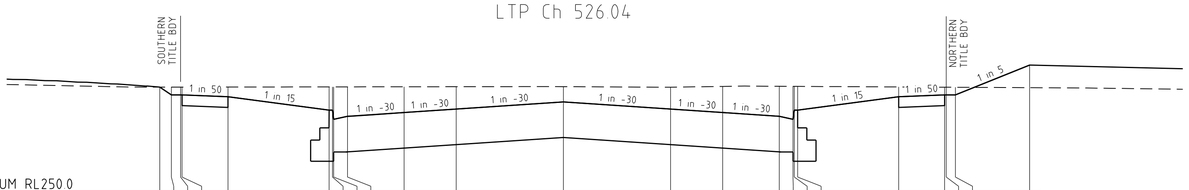
Ch 552.53



DATUM RL250.0

DESIGN SURFACE	252.08	251.97	251.97	251.97	251.94	251.72	251.72	251.57	251.62	251.68	251.73	251.85	251.73	251.68	251.62	251.57	251.72	251.72	251.94	251.97	251.97	251.97	252.41
EXISTING SURFACE	252.08	252.08	252.08	252.07	252.06	252.04	252.04	252.04	252.04	252.02	252.01	252.00	251.99	251.99	252.03	252.04	252.04	252.05	252.03	252.02	252.02	252.01	251.99
OFFSET	-13.14	-12.80	-12.50	-12.45	-10.95	-7.65	-7.54	-7.50	-7.05	-5.20	-3.50	0.00	3.50	5.20	7.05	7.50	7.54	7.65	10.95	12.45	12.50	12.80	15.01

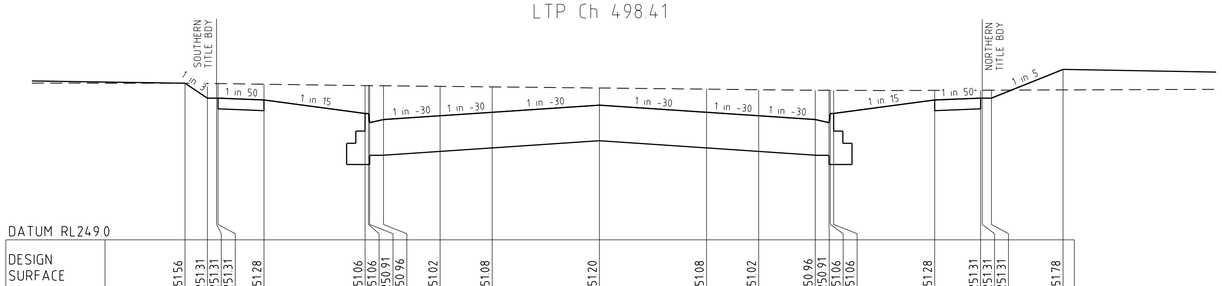
LTP Ch 526.04



DATUM RL250.0

DESIGN SURFACE	252.72	251.59	251.59	251.59	251.56	251.34	251.34	251.19	251.24	251.30	251.36	251.48	251.36	251.30	251.24	251.19	251.34	251.34	251.56	251.59	251.59	251.59	252.08
EXISTING SURFACE	251.72	251.72	251.72	251.72	251.72	251.72	251.72	251.72	251.72	251.72	251.72	251.73	251.72	251.73	251.73	251.73	251.73	251.73	251.72	251.72	251.72	251.72	251.71
OFFSET	-13.18	-12.80	-12.50	-12.45	-10.95	-7.65	-7.54	-7.50	-7.05	-5.20	-3.50	0.00	3.50	5.20	7.05	7.50	7.54	7.65	10.95	12.45	12.50	12.80	15.23

LTP Ch 498.41



DATUM RL249.0

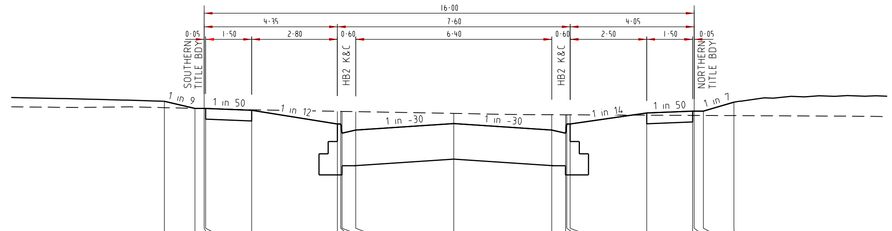
DESIGN SURFACE	251.56	251.31	251.31	251.31	251.28	251.06	251.06	250.91	250.96	251.02	251.08	251.20	251.08	251.02	250.96	250.91	251.06	251.06	251.28	251.31	251.31	251.31	251.78
EXISTING SURFACE	251.56	251.55	251.55	251.55	251.54	251.52	251.52	251.52	251.51	251.51	251.50	251.48	251.46	251.45	251.44	251.44	251.44	251.44	251.44	251.44	251.44	251.44	251.45
OFFSET	-13.53	-12.80	-12.50	-12.45	-10.95	-7.65	-7.54	-7.50	-7.05	-5.20	-3.50	0.00	3.50	5.20	7.05	7.50	7.54	7.65	10.95	12.45	12.50	12.80	15.14

Ch 476.38

ALEXO ROAD

CROSS SECTIONS

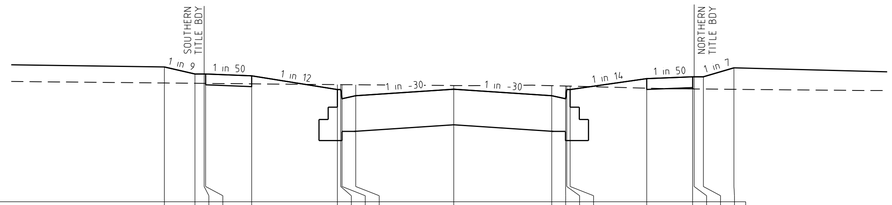
SCALE HORIZONTAL 1:100
VERTICAL 1:50



DATUM RL250.0

DESIGN SURFACE	252.32	252.21	252.21	252.21	252.18	251.95	251.95	251.80	251.85	251.96	251.85	251.80	251.95	251.95	252.13	252.16	252.16	252.16	252.31
EXISTING SURFACE	252.22	252.20	252.20	252.20	252.18	252.16	252.16	252.16	252.15	252.12	252.10	252.10	252.10	252.10	252.09	252.09	252.09	252.09	252.09
OFFSET	-9.45	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15	9.15

RTP Ch 246.21



DATUM RL250.0

DESIGN SURFACE	252.20	252.08	252.08	252.08	252.05	251.83	251.83	251.68	251.73	251.84	251.73	251.68	251.83	251.83	252.01	252.04	252.04	252.04	252.19
EXISTING SURFACE	251.94	251.93	251.93	251.93	251.92	251.91	251.91	251.91	251.91	251.90	251.90	251.89	251.89	251.89	251.85	251.84	251.84	251.84	251.84
OFFSET	-9.45	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15	9.15

Ch 222.16

HAGLEY ROAD

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

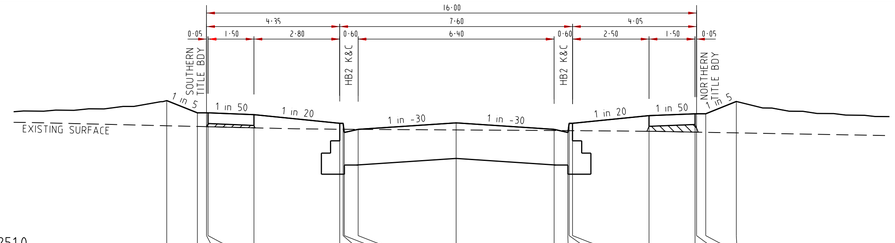
MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 10 OF 14 | A

Plotted:22-Apr-18

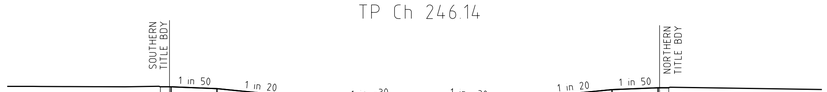
I:\W8711\ENG\STD\E10_R10_AL_XS1.dgn



DATUM RL251.0

DESIGN SURFACE	253.45	253.25	253.25	253.25	253.22	253.08	253.08	252.93	252.98	253.09	252.98	252.93	253.08	253.08	253.21	253.24	253.24	253.24	253.44
EXISTING SURFACE	253.04	253.03	253.03	253.03	253.01	252.99	252.99	252.99	252.99	252.98	252.97	252.96	252.96	252.96	252.95	252.94	252.94	252.94	252.93
OFFSET	-9.45	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15	9.15

TP Ch 246.14



DATUM RL251.0

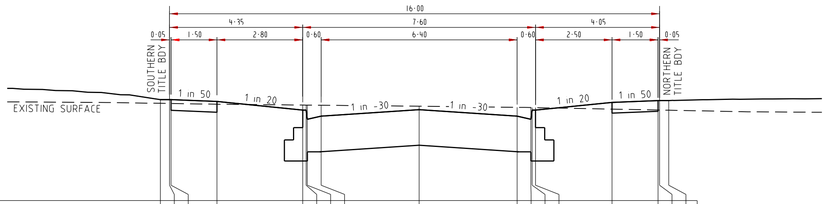
DESIGN SURFACE	253.20	253.20	253.20	253.17	253.03	253.03	252.88	252.93	253.04	252.93	252.88	253.03	253.03	253.15	253.18	253.18	253.18
EXISTING SURFACE	252.98	252.98	252.98	252.96	252.92	252.92	252.92	252.91	252.87	252.87	252.86	252.86	252.86	252.87	252.88	252.88	252.88
OFFSET	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15

Ch 235.15

AMBERFIELD STREET

CROSS SECTIONS

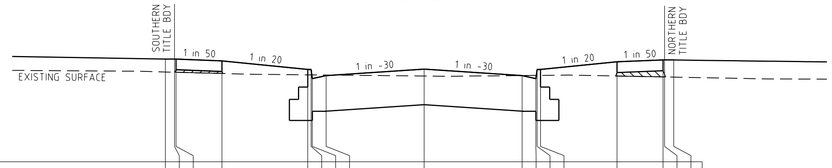
SCALE HORIZONTAL 1:100
VERTICAL 1:50



DATUM RL251.0

DESIGN SURFACE	252.65	252.65	252.65	252.62	252.48	252.48	252.33	252.38	252.48	252.38	252.33	252.48	252.48	252.60	252.63	252.63	252.63
EXISTING SURFACE	252.59	252.58	252.58	252.57	252.56	252.56	252.56	252.56	252.54	252.52	252.52	252.52	252.52	252.49	252.48	252.48	252.47
OFFSET	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15

TP Ch 246.14



DATUM RL251.0

DESIGN SURFACE	252.68	252.68	252.68	252.65	252.51	252.51	252.36	252.41	252.51	252.41	252.36	252.51	252.51	252.63	252.66	252.66	252.66
EXISTING SURFACE	252.46	252.46	252.46	252.44	252.42	252.42	252.42	252.42	252.40	252.41	252.41	252.41	252.41	252.40	252.38	252.38	252.38
OFFSET	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15

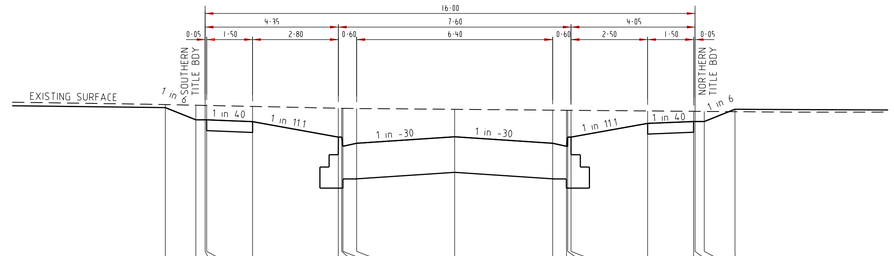
Ch 232.15

CLASS 3 CRUSHED ROCK BACKFILL

GUARDIAN STREET

CROSS SECTIONS

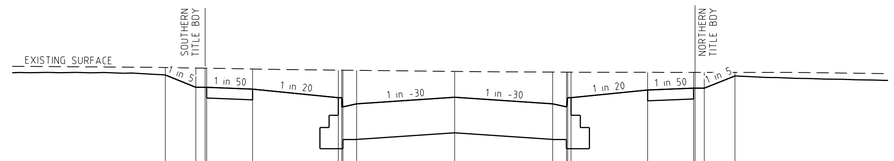
SCALE HORIZONTAL 1:100
VERTICAL 1:50



DATUM RL251.0

DESIGN SURFACE	253.66	253.40	253.39	253.39	253.35	253.12	253.12	252.97	253.01	253.12	253.01	252.97	253.12	253.12	253.38	253.41	253.42	253.42	253.56
EXISTING SURFACE	253.65	253.64	253.63	253.63	253.62	253.59	253.59	253.58	253.58	253.57	253.55	253.55	253.55	253.55	253.54	253.54	253.54	253.53	253.53
OFFSET	-9.45	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15	9.15

Ch 40.22



DATUM RL251.0

DESIGN SURFACE	253.34	253.14	253.14	253.14	253.11	252.97	252.97	252.82	252.87	252.98	252.87	252.82	252.97	252.97	253.10	253.13	253.13	253.13	253.33
EXISTING SURFACE	253.46	253.46	253.45	253.45	253.44	253.42	253.42	253.42	253.42	253.40	253.39	253.39	253.39	253.39	253.39	253.39	253.39	253.39	253.39
OFFSET	-9.45	-8.45	-8.15	-8.10	-6.60	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.30	7.80	7.85	8.15	9.15

TP Ch 11.80

HALIFAX STREET

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS			
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	766-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 11 OF 14 | A

Plotted:02-Apr-18

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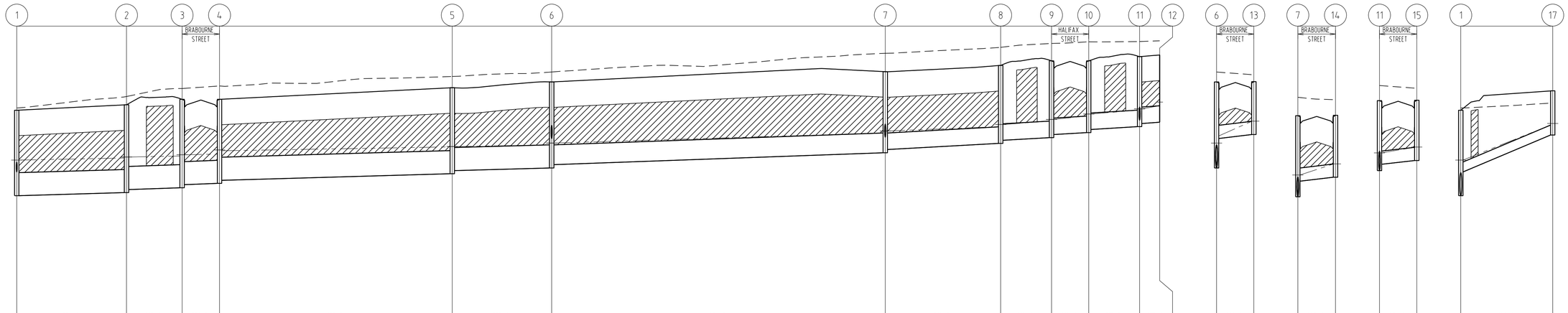
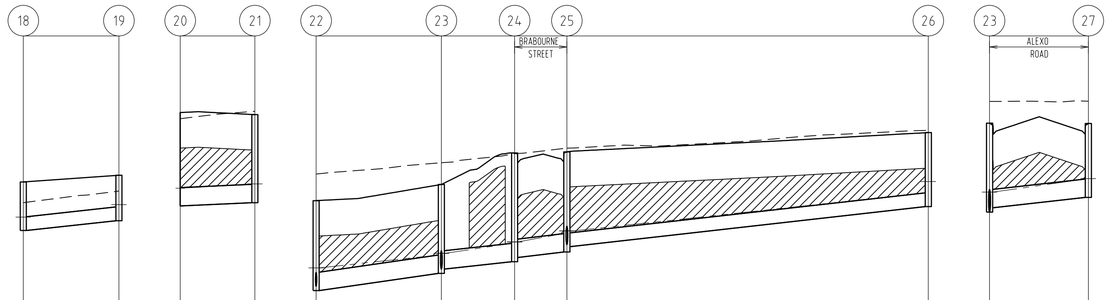


	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12
VELOCITY (m/sec)	1.05m/s	1.12m/s	1.18m/s	1.06m/s	1.02m/s	1.07m/s	1.16m/s	1.14m/s	1.16m/s	1.19m/s	1.29m/s
DESIGN (m3/s)	0.19m3/s	0.19m3/s	0.18m3/s	0.18m3/s	0.18m3/s	0.14m3/s	0.11m3/s	0.12m3/s	0.11m3/s	0.11m3/s	0.10m3/s
CAPACITY (m3/s)	0.23m3/s	0.24m3/s	0.26m3/s	0.23m3/s	0.22m3/s	0.17m3/s	0.13m3/s	0.13m3/s	0.13m3/s	0.13m3/s	0.14m3/s
DIAMETER AND TYPE (CLASS 2)	525 RRJ	525 RRJ	525 RRJ	525 RRJ	525 RRJ	450 RRJ	375 RRJ	375 RRJ	375 RRJ	375 RRJ	375 RRJ
GRADE	1 in 356	1 in 316	1 in 284	1 in 353	1 in 377	1 in 281	1 in 187	1 in 193	1 in 188	1 in 178	1 in 152
DATUM RL	245.0										
DEPTH FS TO INVERT	1.943 / 1.943	1.997 / 1.927	2.011 / 1.941	1.911 / 1.841	1.955 / 1.885	1.956 / 1.881	1.845 / 1.770	1.773 / 1.703	1.746 / 1.676	1.631 / 1.561	1.591 / 1.521 / 1.529
HGL LEVEL	250.740	250.787 / 250.809	250.832 / 250.860	250.876 / 250.951	251.039 / 251.047	251.085 / 251.126	251.355 / 251.402	251.498 / 251.548	251.625 / 251.665	251.740 / 251.785	251.875 / 251.905 / 251.975 / 252.058
INVERT	249.930 / 249.930	250.000 / 250.070	250.110 / 250.180	250.210 / 250.280	250.430 / 250.500	250.560 / 250.635	250.905 / 250.980	251.120 / 251.190	251.250 / 251.320	251.365 / 251.435	251.500 / 251.570 / 251.600
FINISHED SURFACE	251.873	251.997	252.121	252.121	252.385	252.516	252.750	252.893	252.996	252.996	253.091 / 253.129
NATURAL SURFACE	251.923	252.185	252.366	252.425	252.642	252.742	253.167	253.302	253.391	253.429	253.435 / 253.451
CHAINAGE	0.000	24.953	37.589	46.094	98.991	121.591	197.415	223.647	235.205	243.661	255.221 / 259.785
	L=24.953m	L=12.636m	L=8.505m	L=52.896m	L=22.600m	L=75.824m	L=26.232m	L=11.558m	L=8.456m	L=11.560m	L=4.564m

	6–13	7–14	11–15	1–17
VELOCITY (m/sec)	1.41m/s	1.40m/s	1.37m/s	2.26m/s
DESIGN (m3/s)	0.01m3/s	0.01m3/s	0.01m3/s	0.01m3/s
CAPACITY (m3/s)	0.10m3/s	0.10m3/s	0.10m3/s	0.09m3/s
DIAMETER AND TYPE (CLASS 2)	300 RRJ (CL4)	300 RRJ	300 RRJ	225 RRJ
GRADE	1 in 94.1	1 in 95.1	1 in 99.7	1 in 24.9
DATUM RL	245.0	246.0	246.0	245.0
DEPTH FS TO INVERT	1.956 / 1.286	1.845 / 1.490	1.591 / 1.446	1.403 / 1.403 / 1.006
HGL LEVEL	251.085 / 251.126 / 251.289	251.355 / 251.402	251.875 / 251.905	250.740 / 251.535 / 251.572
INVERT	250.560 / 251.230	250.905 / 251.260	251.500 / 251.645	250.470 / 249.930 / 250.470 / 251.310
FINISHED SURFACE	252.516 / 252.524	252.750 / 252.758	253.091 / 253.100	251.873 / 252.316
NATURAL SURFACE	252.742 / 252.679	253.167 / 253.113	253.435 / 253.372	251.923 / 252.038
CHAINAGE	0.000 / 8.471	0.000 / 8.557	0.000 / 8.477	0.000 / 20.900
	L=8.471m	L=8.557m	L=8.477m	L=20.900m



	18–19	20–21	22–23	23–24	24–25	25–26	23–27
VELOCITY (m/sec)	1.14m/s	0.91m/s	1.60m/s	1.37m/s	1.41m/s	1.13m/s	1.41m/s
DESIGN (m3/s)	0.01m3/s	0.01m3/s	0.06m3/s	0.05m3/s	0.04m3/s	0.03m3/s	0.01m3/s
CAPACITY (m3/s)	0.05m3/s	0.06m3/s	0.11m3/s	0.10m3/s	0.10m3/s	0.05m3/s	0.10m3/s
DIAMETER AND TYPE (CLASS 2)	225 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ	225 RRJ	300 RRJ (CL4)
GRADE	1 in 97.6	1 in 225	1 in 73	1 in 99.7	1 in 94.8	1 in 72.4	1 in 94.9
DATUM RL	246.0	245.0	245.0				244.0
DEPTH FS TO INVERT	0.793 / 0.793 / 0.743	1.525 / 1.525 / 1.437	1.468 / 1.468	1.452 / 1.382	1.775 / 1.705	1.632 / 1.557 / 1.208	1.452 / 1.382 / 1.206
HGL LEVEL	251.830 / 251.995 / 252.032	251.300 / 251.364 / 251.370	250.000	250.210 / 250.236	250.400 / 250.424	250.560 / 250.605 / 250.598 / 251.225 / 251.410	250.210 / 250.236 / 250.450 / 250.457
INVERT	251.610 / 251.610 / 251.770	251.010 / 251.010 / 251.064	249.630 / 249.630	249.910 / 249.980	250.100 / 250.170	250.260 / 250.335 / 251.000	249.910 / 249.980 / 250.150
FINISHED SURFACE	252.403 / 252.513	252.535 / 252.501	251.098	251.362	251.875	251.892 / 252.208	251.362 / 251.356
NATURAL SURFACE	252.066 / 252.254	252.435 / 252.556	251.531	251.716	251.863	251.955 / 252.245	251.716 / 251.720
CHAINAGE	0.000 / 15.613	0.000 / 12.192	0.000	20.451	32.411	40.940 / 99.948	0.000 / 16.131
	L=15.613m	L=12.192m	L=20.451m	L=11.960m	L=8.529m	L=59.007m	L=16.131m

INDICATES CRUSHED ROCK BACKFILL

INDICATES 5YR HGL

1:500 10 5 00 10 20 40
1:50 1 0.5 00 1 2 4

NOTE:
ALL DRAINS LAID UNDER BACK OF KERB AND FOOTPATH TO TO BE CLASS 3 AND UNDER ROAD PAVEMENT TO BE MINIMUM CLASS 2 F.C.R.

DRAINAGE LONGITUDINAL SECTIONS

SCALE HORIZONTAL 1:500
VERTICAL 1:50

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	366-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 12 OF 14 | A

Plotted:02-Apr-18

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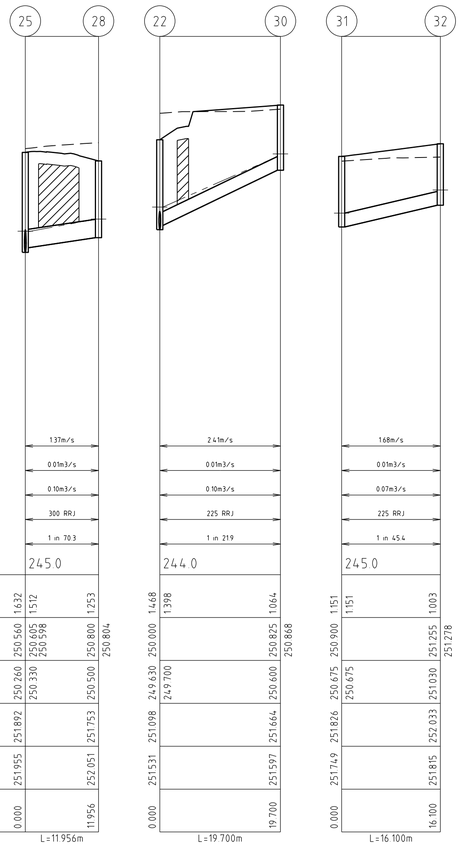

PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET INVERT	INLET DIA	OUTLET INVERT	OUTLET DIA	TOP PIT RL	DEPTH INVERT	REMARKS	REMARKS
1	Ex.PIT			249.930	525			251.873	1.943		CONNECT TO EXISTING ENDPIPE
2	GRATED ENTRY PIT (HB2)	900	900	250.070	525	250.000	525	251.997	1.997	VPA GAA STD DWG EDCM603&607 (HAUNCHED)	HAUNCHED PIT, COVER TO 900 x 600
3	GRATED ENTRY PIT (HB2)	900	900	250.180	525	250.110	525	252.121	2.011	VPA GAA STD DWG EDCM603&607 (HAUNCHED)	HAUNCHED PIT, COVER TO 900 x 600
4	GRATED ENTRY PIT (HB2)	900	900	250.280	525	250.210	525	252.121	1.911	VPA GAA STD DWG EDCM603&607 (HAUNCHED)	HAUNCHED PIT, HD COVER TO 900 x 600 & PIT FLOOR DEFLECTOR
5	JUNCTION PIT	900	900	250.500	525	250.430	525	252.385	1.955	VPA GAA STD DWG EDCM607 (HAUNCHED)	HAUNCHED PIT, COVER TO 900 x 600
6	GRATED ENTRY PIT (HB2)	900	900	250.635	450	250.560	525	252.516	1.956	VPA GAA STD DWG EDCM603&607 (HAUNCHED)	HAUNCHED PIT, HD COVER TO 900 x 600 & PIT FLOOR DEFLECTOR
				251.230	300						
7	GRATED ENTRY PIT (HB2)	900	600	250.980	375	250.905	450	252.750	1.845	VPA GAA STD DWG EDCM603	HD COVER & PIT FLOOR DEFLECTOR
				251.260	300						
8	JUNCTION PIT	900	600	251.190	375	251.120	375	252.893	1.773	VPA GAA STD DWG EDCM605	
9	GRATED ENTRY PIT (HB2)	900	600	251.320	375	251.250	375	252.996	1.746	VPA GAA STD DWG EDCM603	
10	GRATED ENTRY PIT (HB2)	900	600	251.435	375	251.365	375	252.996	1.631	VPA GAA STD DWG EDCM603	CONNECT TO EXISTING ENDPIPE
11	JUNCTION PIT	900	600	251.570	375	251.500	375	253.091	1.591	VPA GAA STD DWG EDCM605	
				251.645	300						
12	END PIPE					251.600	375	253.129	1.529	GRADE TO FREE OUTLET	CONNECT TO EXISTING ENDPIPE
13	GRATED ENTRY PIT (HB2)	900	600			251.320	300	252.524	1.204	VPA GAA STD DWG EDCM603	
14	GRATED ENTRY PIT (HB2)	900	600			251.350	300	252.758	1.408	VPA GAA STD DWG EDCM603	
15	GRATED ENTRY PIT (HB2)	900	600			251.730	300	253.100	1.370	VPA GAA STD DWG EDCM603	HD COVER
17	JUNCTION PIT	900	600			251.310	225	252.316	1.006	VPA GAA STD DWG EDCM605	
18	EX PIT			251.610	225			252.403	0.793		CONNECT TO EXISTING PIT
19	EASEMENT PIT	900	600			251.770	225	252.513	0.743	VPA GAA STD DWG EDCM605	
20	END PIPE			251.010	300			252.535	1.525	GRADE TO FREE OUTLET	CONNECT TO EXISTING ENDPIPE
21	GRATED ENTRY PIT (HB2)	900	600			251.064	300	252.501	1.437	VPA GAA STD DWG EDCM603	
22	Ex.PIT			249.630	300			251.098	1.468		CONNECT TO EXISTING ENDPIPE
23	GRATED ENTRY PIT (HB2)	900	600	249.980	300	249.910	300	251.362	1.452	VPA GAA STD DWG EDCM603	PIT FLOOR DEFLECTOR
				249.980	300						
24	GRATED ENTRY PIT (HB2)	900	600	250.170	300	250.100	300	251.900	1.800	VPA GAA STD DWG EDCM603	PIT FLOOR DEFLECTOR
25	GRATED ENTRY PIT (HB2)	900	600	250.185	225	250.260	300	251.900	1.640	VPA GAA STD DWG EDCM603	
				250.330	300						
26	JUNCTION PIT	900	600			251.000	225	252.208	1.208	VPA GAA STD DWG EDCM605	
27	GRATED ENTRY PIT (HB2)	900	600			250.150	300	251.356	1.206	VPA GAA STD DWG EDCM603	
28	GRATED ENTRY PIT (HB2)	900	600			250.500	300	251.753	1.253	VPA GAA STD DWG EDCM603	
30	JUNCTION PIT	900	600			250.600	225	251.664	1.064	VPA GAA STD DWG EDCM605	
31	EX PIT			250.675	225			251.826	1.151		CONNECT TO EXISTING PIT
32	JUNCTION PIT	900	600			251.030	225	252.033	1.003	VPA GAA STD DWG EDCM605	

INDICATES CRUSHED ROCK BACKFILL

INDICATES 5YR HGL

NOTE:
ALL DRAINS LAID UNDER BACK OF KERB AND FOOTPATH TO TO BE CLASS 3 AND UNDER ROAD PAVEMENT TO BE MINIMUM CLASS 2 F.C.R.

1:500 10 5 00 10 20 40
1:50 1 0.5 00 1 2 4

DRAINAGE LONGITUDINAL SECTIONS

SCALE HORIZONTAL 1:500
VERTICAL 1:50

AMENDMENTS

VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 366-E-6
SURVEY BPD
DESIGN TVT
DRAWN PG
CHECKED

WARATAH ESTATE
STAGE 10

MUNICIPALITY: HUME
REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 13 OF 14 | A

Plotted:02-Apr-18

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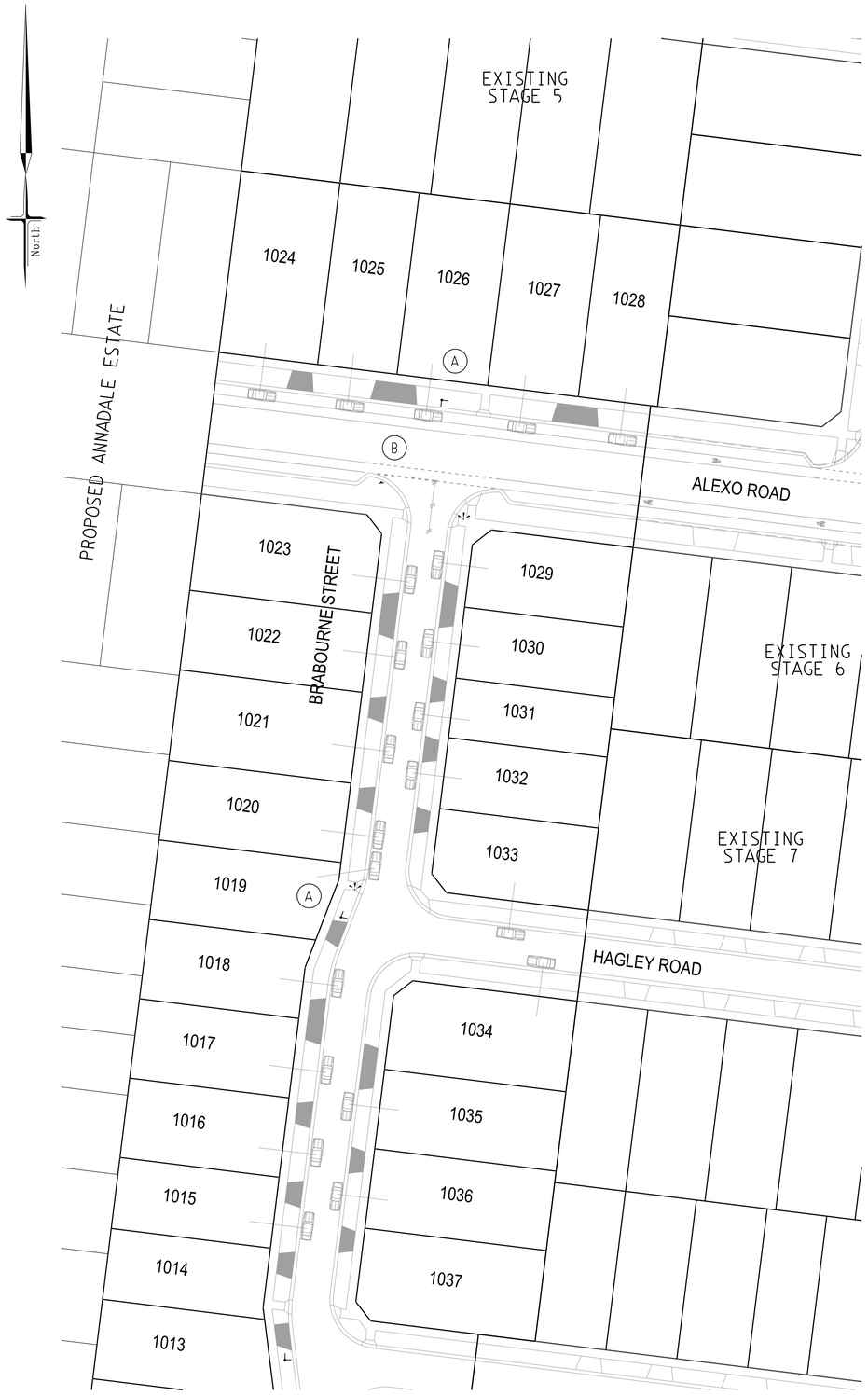
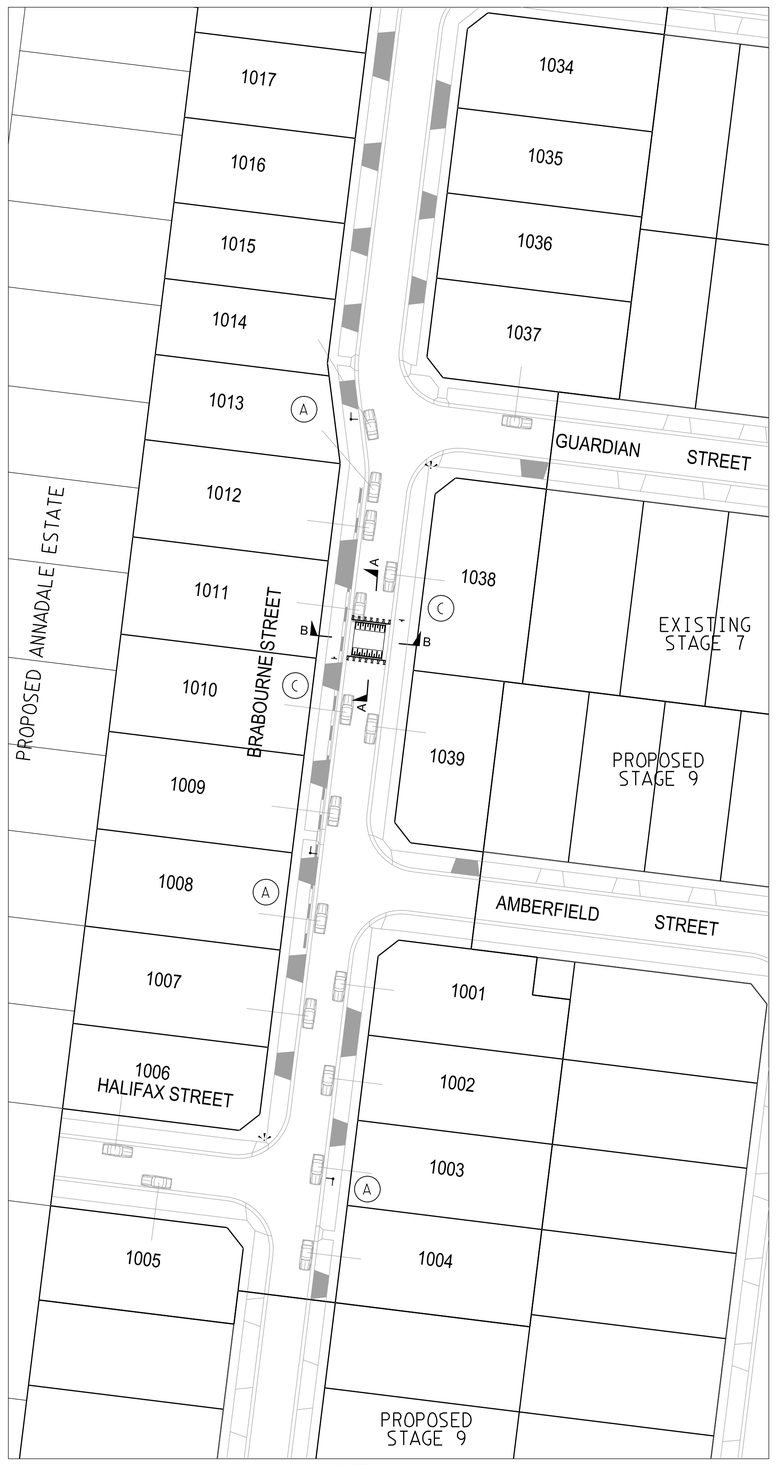


FOR CONTINUATION REFER TO INSET



INSET

PARKING AND SIGNAGE & LINEMARKING PLAN

SCALE 1:500

SIGNAGE LEGEND

(A) "STREET NAME" SIGN

(B) GIVE WAY R1-2

(C) "SPEED HUMP" SIGN

W5-10A ROAD HUMP SIGN (BLACK & YELLOW)

20 km/h W8-2A ADVISORY SPEED SIGN (BLACK & YELLOW)

NOTE:
- STREET NAME SIGN TO MOUNT ON LIGHTING POLE WHERE POSSIBLE
- STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE POLE SLEEVES

LEGEND

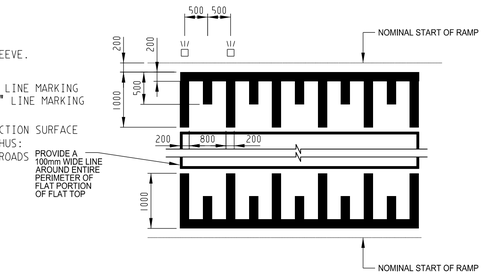
NOTIONAL CAR PARKING SPACES

NOTES

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

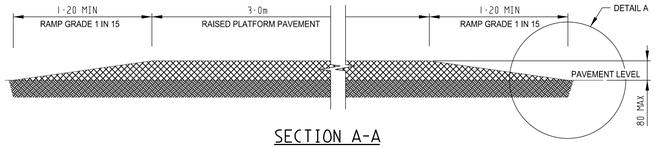
b) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING

c) PROVIDE EMERALD GREEN COLOURED HIGH FRICTION SURFACE TREATMENTS WITHIN THE BICYCLE DENOTED THUS: SURFACE TREATMENT MUST COMLPLY WITH VICROADS STANDARD SECTION 430.



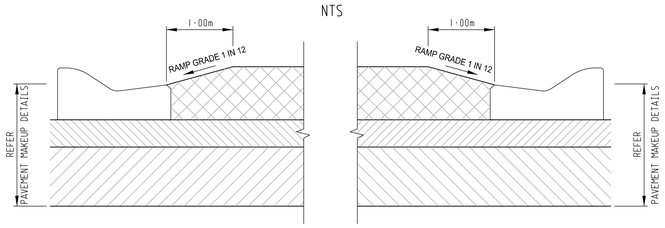
LINE MARKING FOR RAISED PAVEMENTS

NTS



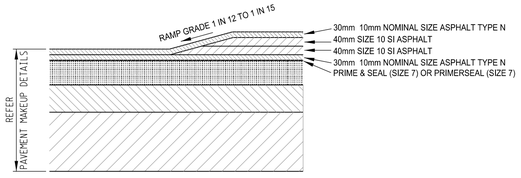
SECTION A-A
RAISED PLATFORM PROFILE

NTS



BRABOURNE STREET
SECTION B-B
EDGE TREATMENT

NTS



DETAIL A

NTS

AMENDMENTS			
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	766-E-6
SURVEY	BPD
DESIGN	TVT
DRAWN	PG
CHECKED	

WARATAH ESTATE
STAGE 10

MUNICIPALITY: HUME

REFERENCE: 8711 E/10

SCALE AS SHOWN | DATUM AHD | DATE DEC' 17 | SHEET 14 OF 14 | A

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Plotted:02-Apr-18