

MERRIFIELD DEVELOPMENT

STAGE 12

DONNYBROOK ROAD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield



CIVIL DRAWINGS

ROAD AND DRAINAGE

AS CONSTRUCTED

DCE REF : 11732

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Date/Time: Thu Feb 25, 2016 - 2:07pm --Robert Young--

HUME CITY COUNCIL GENERAL NOTES:

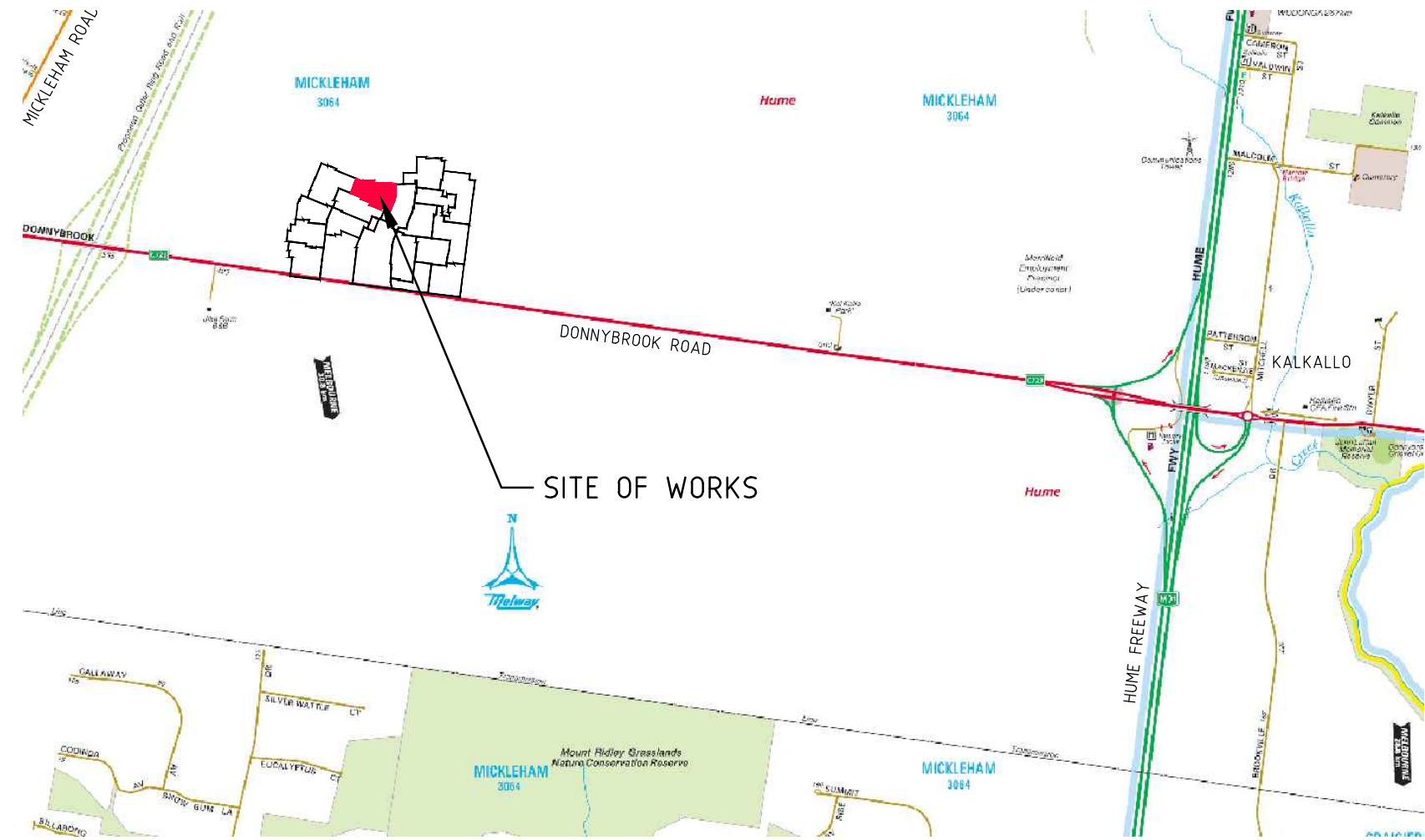
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS4000 AMENDED GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED HUME CITY COUNCIL SPECIFICATION AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 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 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.
- 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, THE NEW TEST RESULTS SHALL BE PROVIDED.
- PRIOR TO ALL COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, HAVE BEEN AND WILL BE COMPLIED WITH.
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENTAL PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD FOR THE WORKS.
- 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 AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- 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
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
- 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 HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED, AND TOPSOIL REPLACED TO OBTAIN THE FINAL FILL LEVELS 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 AS1289.5.1.1-2003.
- FILLING TO COMPLY WITH AS3798-2007 LEVEL 1 (OR 2) AS SPECIFIED.
- 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.
- 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.
- NO TREES OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
- 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.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT.
- 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.
- ALL DISTURBED AREAS, ie. NATURESTRIPS, BATTERS, ALLOTMENTS AND RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED 100MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND SOWN WITH GRASS SEED. SEED IS TO BE A DROUGHT TOLERANT COUCH/FESCUE MIX UNLESS OTHERWISE DETAILED. BLEND IS GENERALLY AS FOLLOWS:
40% DWARF TALL FESCUE - DROUGHT TOLERANT CULTIVARS
40% COUCH
20% HARD FESCUE

NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.
- FOOTPATHS TO BE OFFSET 50mm FROM THE TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.

- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450MM LONG Y20 DOWEL BARS @ 600 CENTERS, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- 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 AS1289.5.2.1-2003.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC OR RIGID FRC PIPES WITH ADCOL FLEXIBLE COLLAR UNLESS OTHERWISE SHOWN. ALL RC PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED (RRJ). INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 600mm DIA.
- WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 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.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F.C.R COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS 1289.5.2.1-2003. ALL DRAINS, SEWER, 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 AS 1289.5.2.1-2003.
- 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 AS1289.5.1.1-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS; EG 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.
- ALL FIRE HYDRANTS ARE TO ME 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.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH AS1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING SD408.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE 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.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND COMPLY WITH THE REQUIREMENTS OF AS1743-2001.
- 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 SHALL BE BACKFILLED WITH 10mm MINUS F.C.R TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
- 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.0M FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0M FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.
- BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL. RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTORS AND CONSULTANT CONTACT NAMES AND NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN AS1287.2-1993. ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM AS1287.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST. BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00AM AND 3:30PM. BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS. BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.

GENERAL NOTES:

- ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- ALL CHAINAGES REFER TO ROAD RESERVE DESIGN LINES EXCEPT:
- IN COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB
- KERB RETURNS WHERE CHAINAGES REFER TO LIP OF KERB.
- GENERALLY B2 KERB AND CHANNEL IS TO BE USED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
- LIP OF ALL KERB RADI ARE 8.60m UNLESS OTHERWISE SHOWN.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- TBMS TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBMS THEREAFTER.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- VEHICULAR CROSSINGS OF THE TYPE INDICATED ARE TO BE OFFSET 1.5m FROM THE LOT BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. DRIVEWAY GRADES TO BE 1 IN 6 MAX.
- PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH COUNCIL STANDARDS.
- ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- ALL EASEMENTS ARE 2.0m OR 3.0m WIDE DRAINAGE AND SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL SEWERS ARE OFFSET 1.2m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
- WHERE CURVED PIPES ARE SHOWN ON THE DETAIL PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. ALL DRAINS BEHIND KERBS ARE TO BE LAID AT THE OFFSET SPECIFIED IN THE COUNCIL SPECIFICATION. CURVED PIPES OF DIAMETER LESS THAN 600mm ON LARGE RADIUS CURVES ARE APPROVED BY COUNCIL SUBJECT TO COMPLIANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL SIDE ENTRY PITS EXCEPT THOSE AT LOW POINTS ARE TO HAVE FLUTES AS SPECIFIED IN THE COUNCIL STANDARD DRAWINGS.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND PARKING BAYS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPINGS IS 1.0m. CONDUITS NOT TO BE LOCATED WITHIN 4.0m OF ALLOTMENT BOUNDARY, UNLESS OTHERWISE SHOWN.
- WATER TAPPINGS FOR LOTS SITUATED ON THE SAME SIDE AS THE WATERMAIN ARE TO BE LOCATED AT THE CENTRE OF THE LOT. THE KERB IS TO BE MARKED "W" WITH AN ARROW POINTING TO THE TAPPING.
- GAS TO BE 50mm DIA. CLASS 12 P.V.C. & WATER CONDUITS TO BE 100 DIA. CLASS 12 P.V.C. SINGLE CONDUIT CONTAINING BOTH DW & NDW SERVICES LAID IN ACCORDANCE WITH WSA 03-2002 DUAL WATER SUPPLY SYSTEM STANDARD DRAWING WAT-1806-V
- ELECTRICITY CONDUITS ARE TO BE LAID WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS :
UNDER ROADS - 0.90m
ELSEWHERE - 0.60m
- TACTILE GROUND SURFACE INDICATORS (TGSI'S) TO BE INSTALLED. TGSI'S ARE TO COMPLY WITH AS1428.4



LOCALITY PLAN
MELWAY REF MAP: 366 D3,E4
NTS

DRAWING INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
01	11732TD01	LOCALITY PLAN, INDEX AND NOTES
02	11732TD02	TYPICAL SECTIONS AND DETAILS
03	11732SP01	STAGING PLAN
04	11732DP01	DETAIL PLAN
05	11732SOP01	SETOUT DETAILS
06	11732ID01	INTERSECTION DETAILS
07-09	11732LS01-03	LONGITUDINAL SECTIONS - SHEET 01 TO 03
10-15	11732XS01-06	CROSS SECTIONS - SHEETS 01 TO 06
16-18	11732DR01-03	DRAINAGE LONGITUDINAL SECTIONS - SHEETS 01 TO 03
19	11732POS01	PLAN OF SUBDIVISION
20	11732FP01	FILL PLAN
21	11732EF01	EXISTING FEATURES

1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541174
Verified S.LEA
Date 28/05/15
AN 1081760
Audited B.GORDON
Date 18/09/15
AN 162543
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884430

AS CONSTRUCTED

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

merrifield

MAB gpc

Coords: MGA
Levels: AHD

Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 12
LOCALITY PLAN, INDEX AND NOTES

Drawing No. 11732TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED
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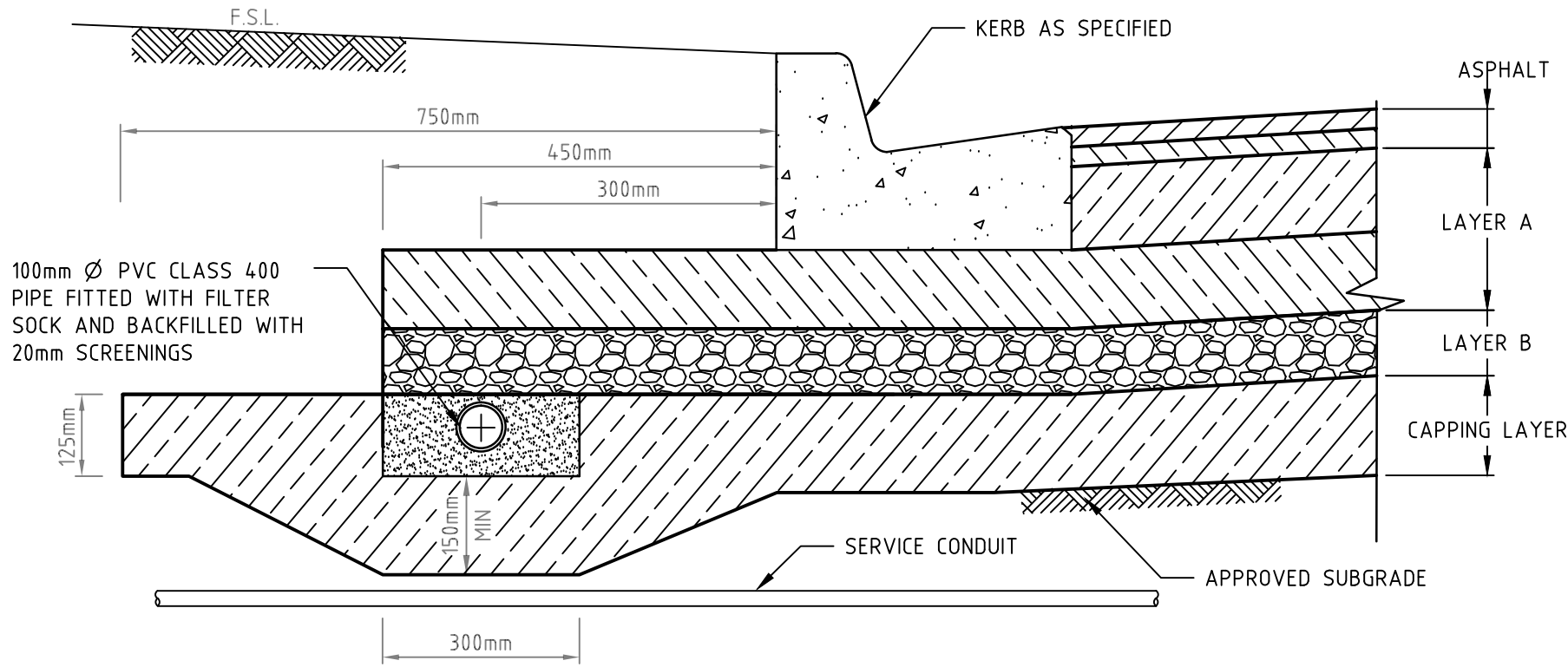
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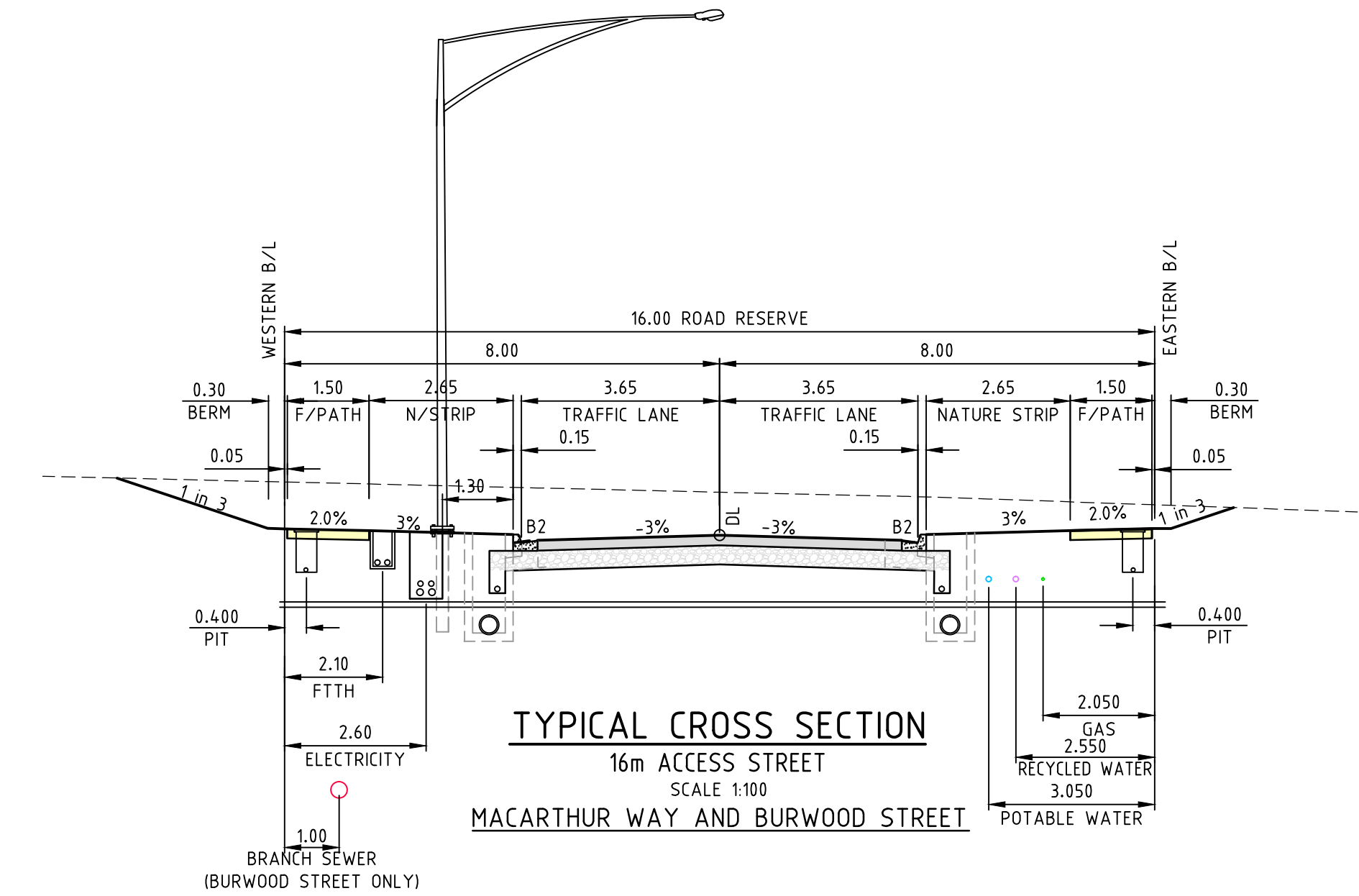
PAVEMENT DETAILS

	ACCESS STREETS
	MACARTHUR WAY, WESTGARTH AVENUE AND BURWOOD STREET
ASPHALT	WEARING COURSE 30mm SIZE 10mm TYPE N ASPHALT BASE COURSE 30mm SIZE 10 TYPE N ASPHALT INTERLAYER 10mm SAMI TREATMENT PRIME OR PRIMERSEAL
LAYER A	BASE COURSE 130mm SIZE 20mm CLASS 2 CRUSHED ROCK UPPER SUBBASE 120mm SIZE 20 CLASS 3 CRUSHED ROCK
LAYER B	LOWER SUBBASE 100mm SIZE 20 CLASS 4 CRUSHED ROCK
CAPPING LAYER	CAPPING 150mm REFER SECTION 7.4 OF REPORT
DEPTH TOTAL	570mm
SUBGRADE	SUBGRADE CBR ≥ 2%

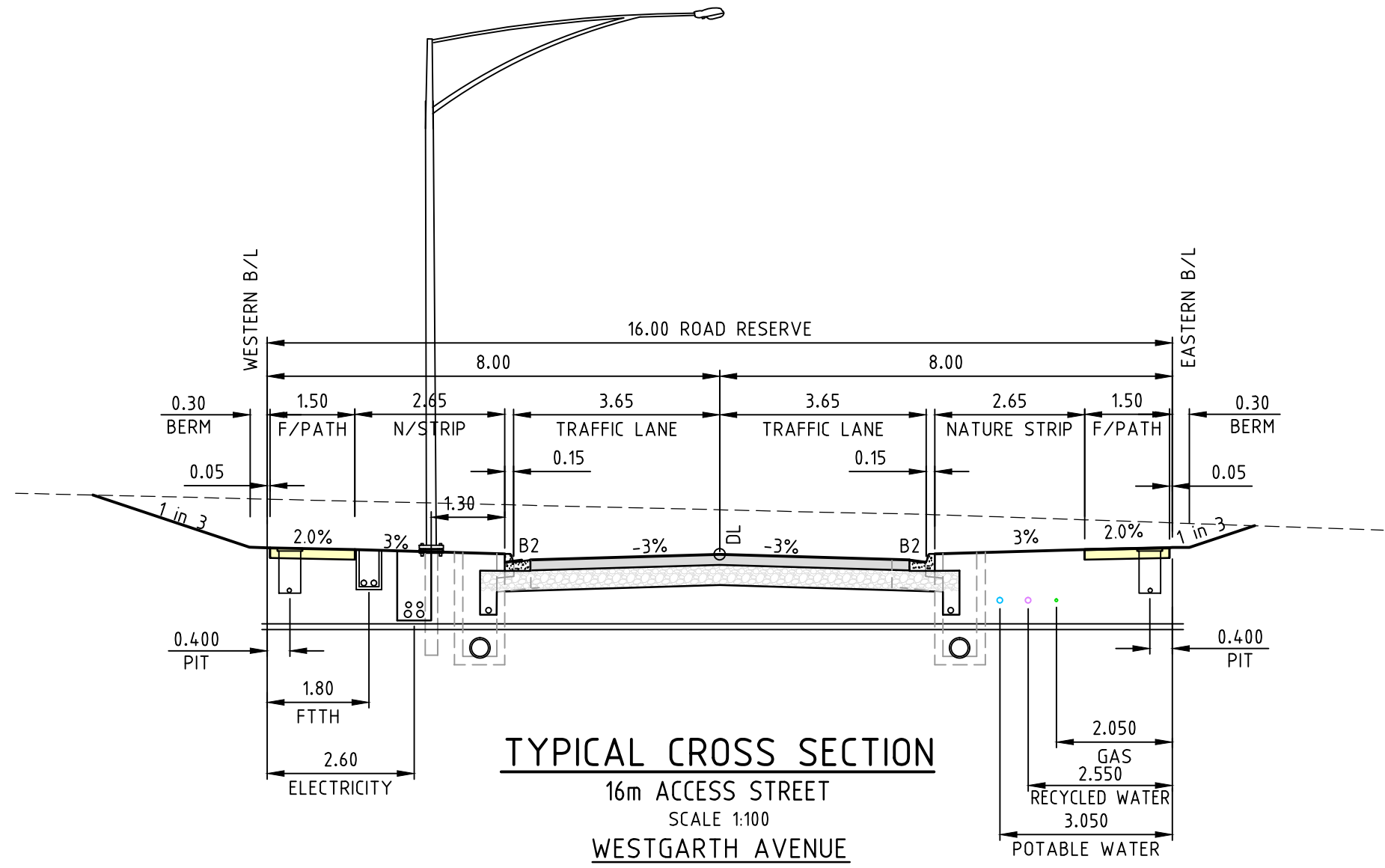
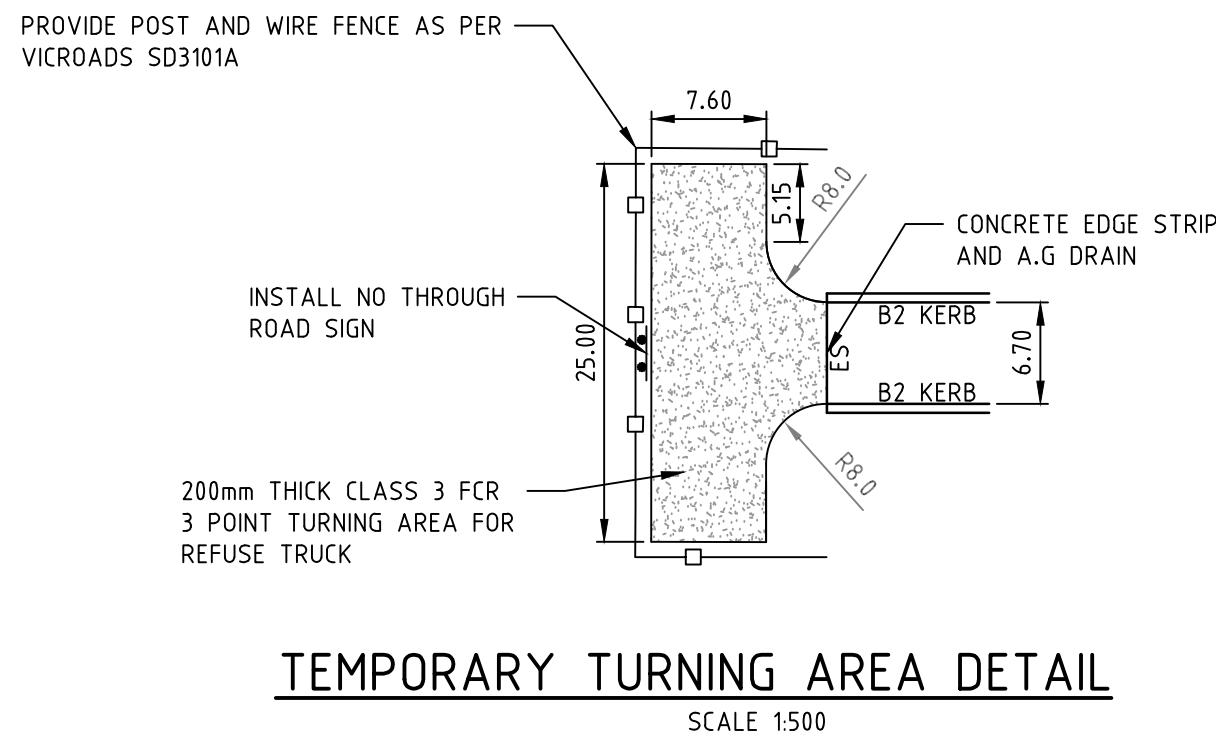
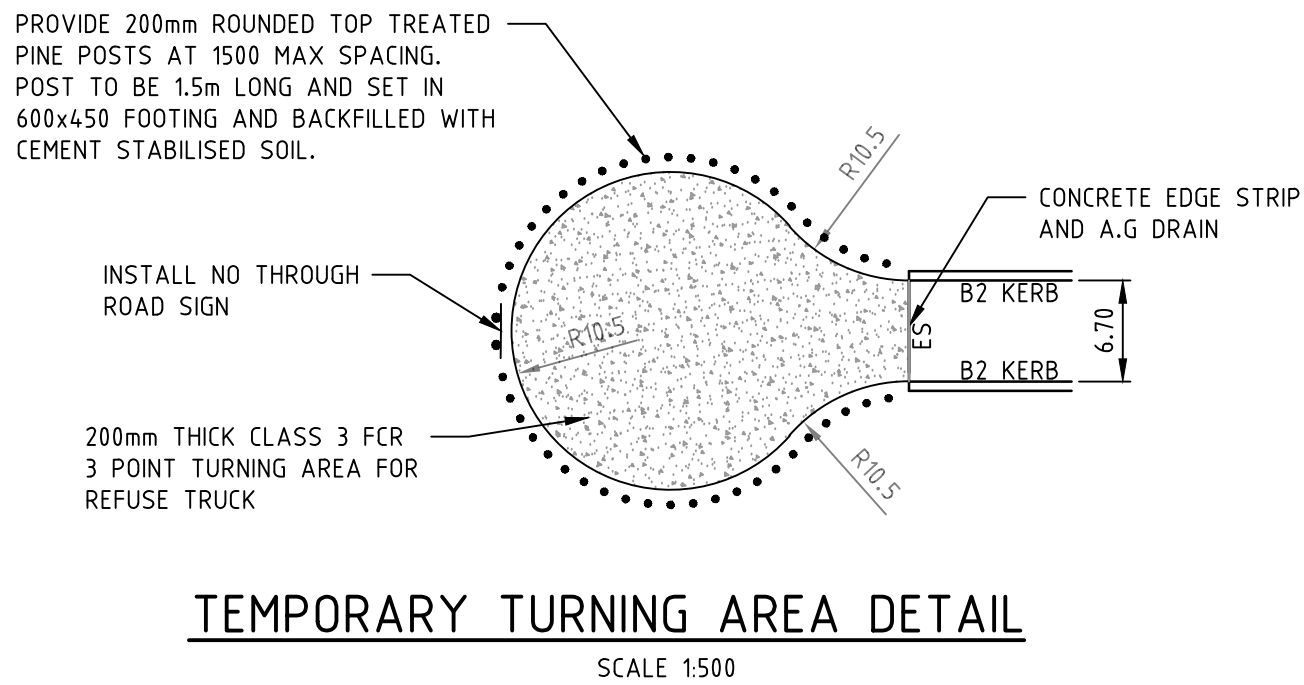
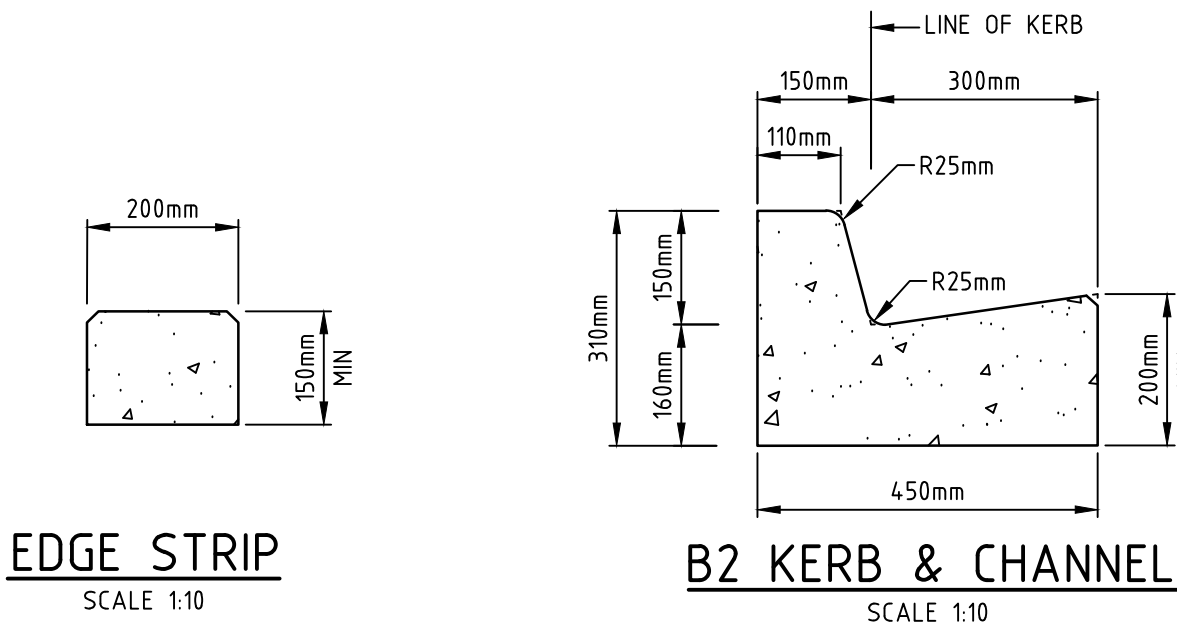
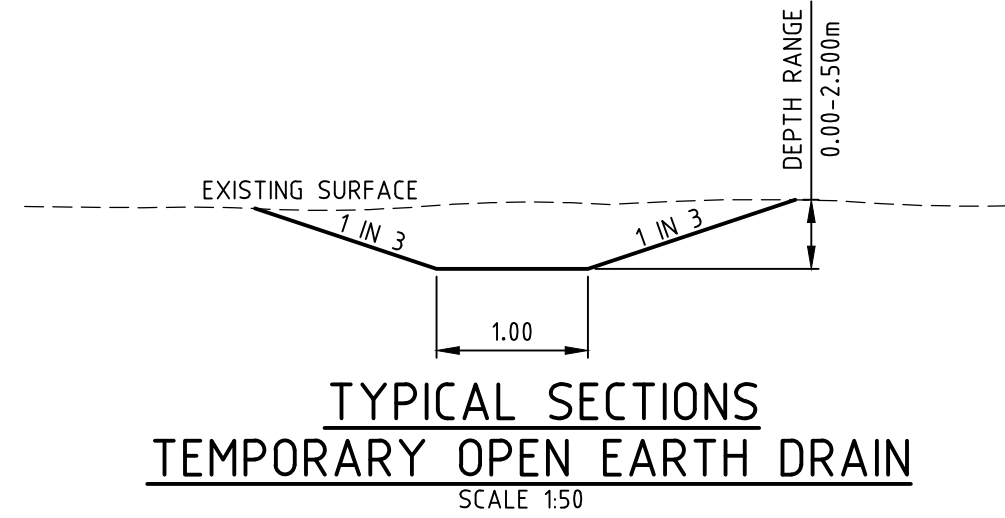
REFER TO GOLDER ASSOCIATE'S GEOTECHNICAL REPORT
NUMBER 127612078-001-R-Rev0
DATED 18/01/2013



TYPICAL PAVEMENT DETAIL
MACARTHUR WAY, WESTGARTH AVENUE AND BURWOOD STREET
SCALE 1:10



TYPICAL CROSS SECTION
16m ACCESS STREET
SCALE 1:100
MACARTHUR WAY AND BURWOOD STREET



TYPICAL CROSS SECTION
16m ACCESS STREET
SCALE 1:100
WESTGARTH AVENUE

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	25/02/16	TL
1	B2 KERB SECTION AMENDED	02/12/15	TL
0	CONSTRUCTION ISSUE	18/09/15	TL

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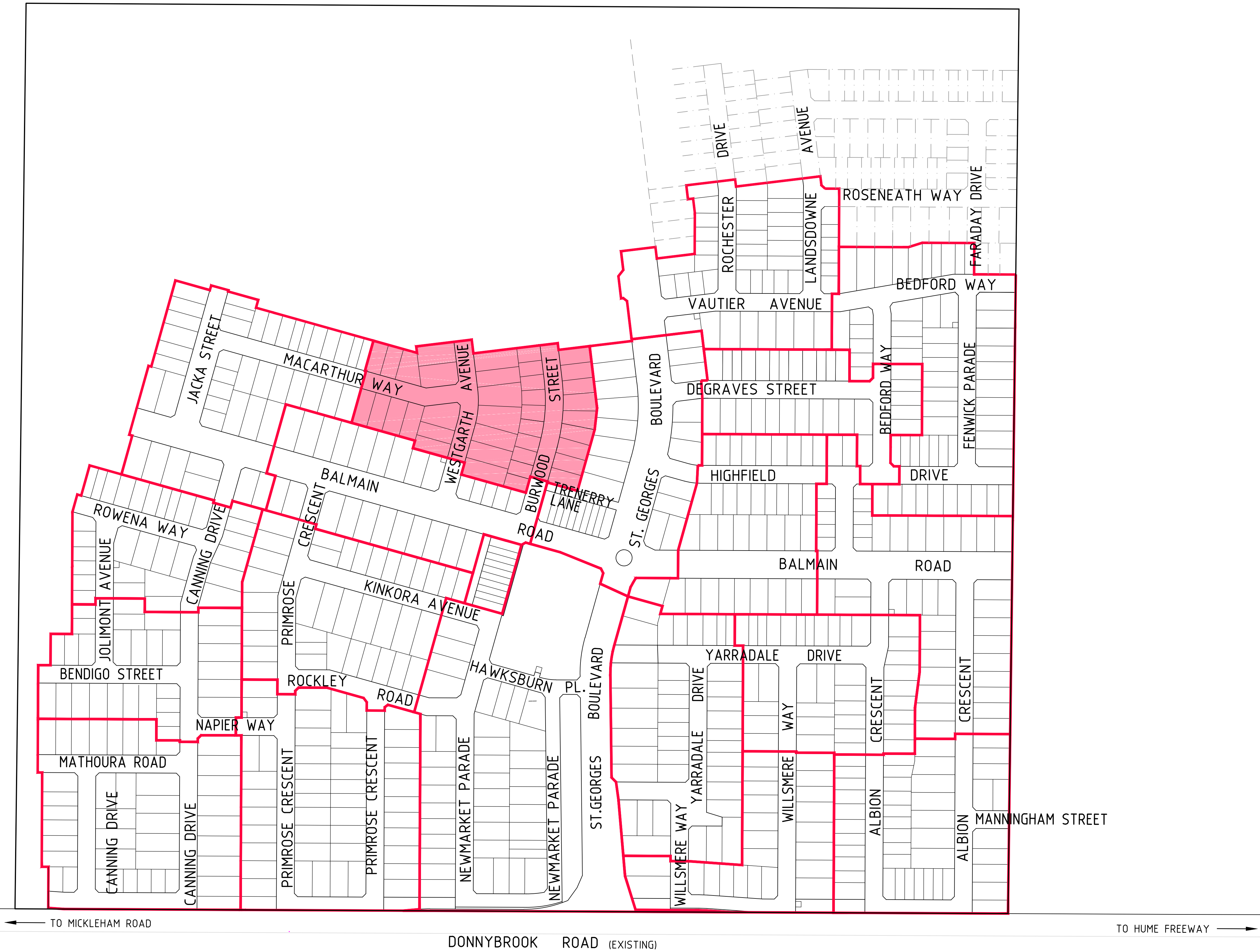
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merrifield
MAB gpc
Coords: MGA
Levels: AHD
Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 12
TYPICAL SECTIONS AND DETAILS
Drawing No. 11732TD02 Rev 2
Sheet No. 02 AS CONSTRUCTED
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Date/Time: Thu Feb 25, 2016 - 2:07pm - Robert Young

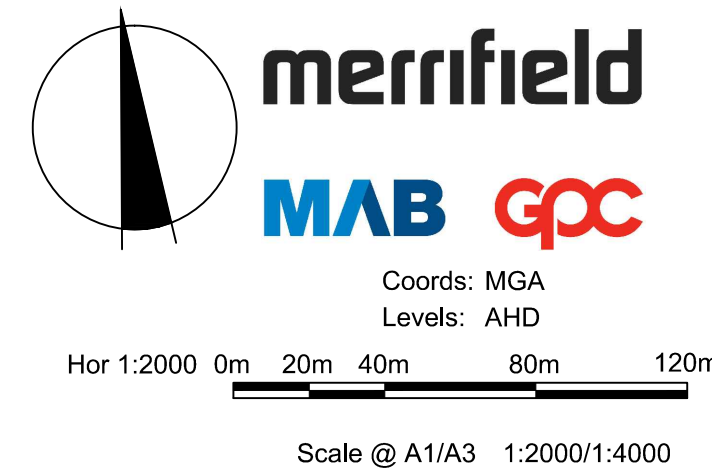


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Date 28/05/15
AN 1061762
Audited B.GORDON
Date 18/09/15
AN 162545
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884432

AS CONSTRUCTED

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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
STAGING PLAN

Drawing No. 11732SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED
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Date/Time: Thu Feb 25, 2016 - 2:07pm - Robert Young

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
3	AS CONSTRUCTED	25/02/16	TL
2	LOT 1216/1217 CROSSOVERS AMENDED	18/12/15	TL
1	LOT LEVELS AMENDED	09/11/15	TL
0	CONSTRUCTION ISSUE	18/09/15	TL

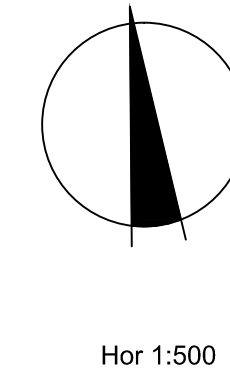
Drawn K.PAGE Date 15/05/15 AN 1511016 Designed N.MIRATANA Date 14/05/15 AN 1541177 Verified S.LEA Date 28/05/15 AN 1081763 Audited B.CORDON Date 18/09/15 AN 162546 Approved T.LIAKOPOULOS Date 18/09/15 AN 884433	
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- LEGEND
- Ex W EXISTING WATER MAIN
 - Ex G EXISTING GAS MAIN
 - Ex E EXISTING ELECTRICAL CABLE
 - Ex S-O EXISTING SEWER MAIN & MANHOLE
 - Ex T EXISTING TELECOMM. CABLE AND PIT
 - Ex V EXISTING ELEC. POLE & O'HEAD LINES
 - Ex V EXISTING STORMWATER DRAIN & PIT
 - CONSTRUCTED PRE DEVELOPMENT
 - EXISTING TREES TO BE REMOVED
 - EXISTING SURFACE LEVEL
 - FINISHED SURFACE LEVEL
 - OPEN EARTH DRAIN (O.E.D.)

- 300Ø BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

- W WATER
- RW RECYCLED WATER
- T TELSTRA/NNB
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- REGRADE LOT AT MIN 1 IN 150
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- FILLING OVER 300mm
- FINISHED SURFACE CONTOUR



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
DETAILED PLAN

Drawing No. 11732DP01 Rev 3
Sheet No. 04 AS CONSTRUCTED

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WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

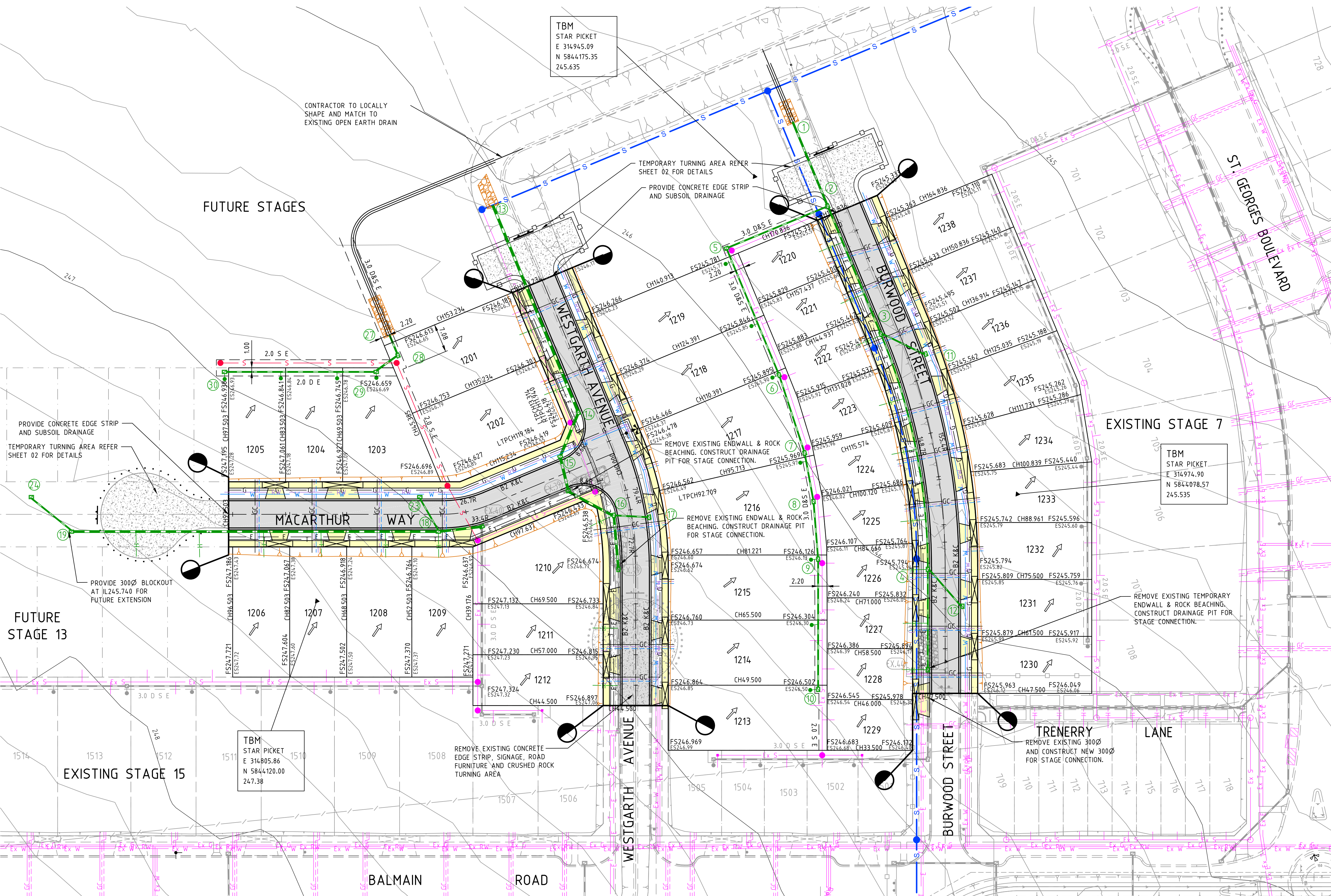


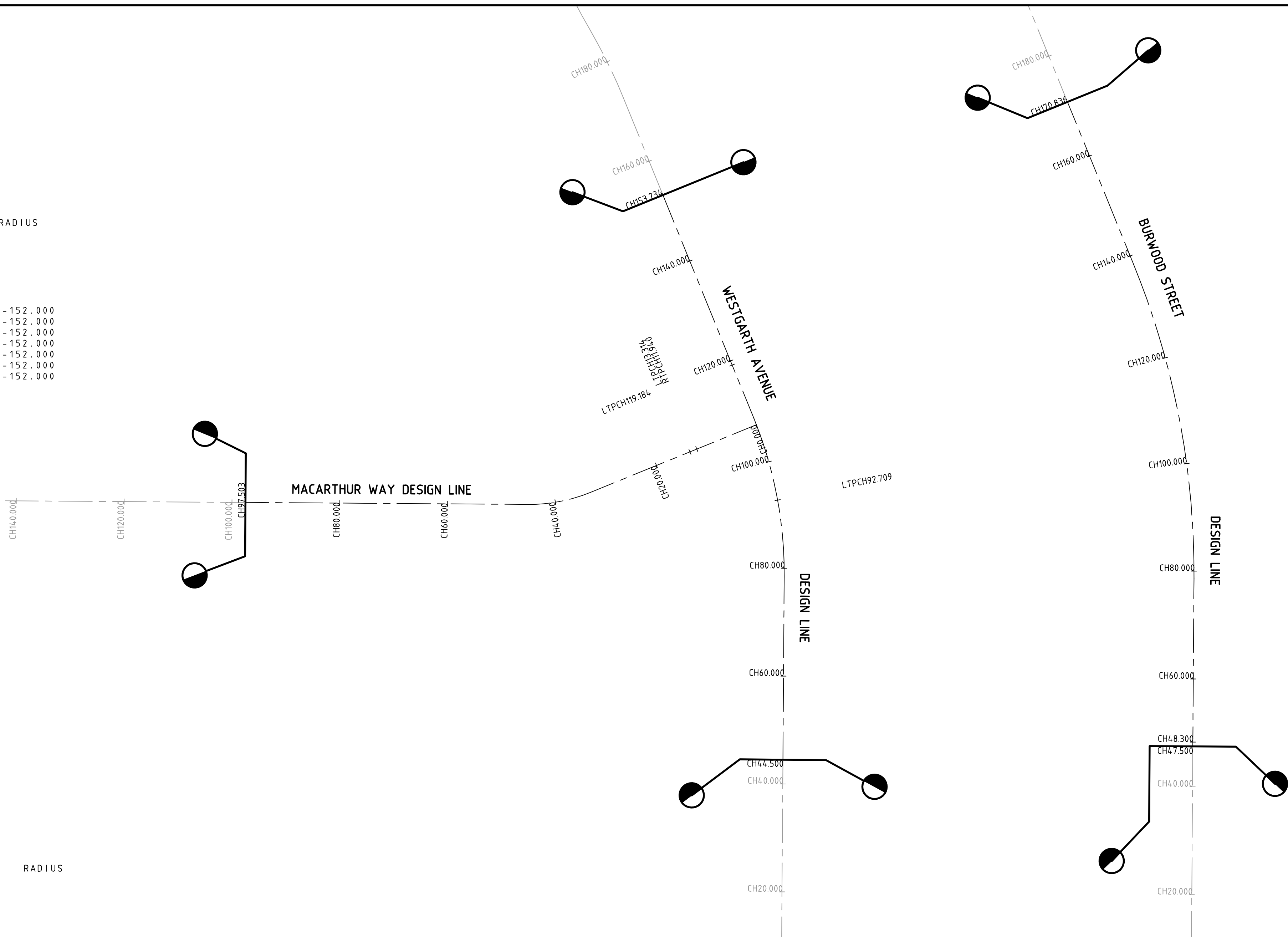
TABLE OF SERVICES LOCATIONS

STREET NAME	WATER	NO-WATER	GAS	NBN	ELEC.	POLES	BOK
WESTGARTH AVENUE	3.05 E	2.55 E	2.05 E	1.85 W	2.45 W	3.05 W	4.20
MACARTHUR WAY	3.05 N	2.55 N	2.05 N	1.85 S	2.45 S	3.05 S	4.20
BURWOOD STREET	3.05 E	2.55 E	2.05 E	2.10 W	2.60 W	3.05 W	4.20

Drawing File: C:\design\da\11732\11732-merrifield - precinct 1 - stage 12\locat(RD)
11732SOP01.dwg - 11732SOP01
Date/Time: Thu Feb 25, 2016 - 2:07pm --Robert Young--

HORIZONTAL ALIGNMENT REPORT FOR BURWOOD STREET DESIGN LINE

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
STRAIGHT (START ALN)	0.000	314921.669	5843996.195	246.466	22°27'34.26"	
STRAIGHT	20.000	314929.309	5844014.678	246.233	22°27'34.26"	
STRAIGHT	40.000	314936.950	5844033.161	245.936	22°27'34.26"	
STRAIGHT	60.000	314944.591	5844051.644	245.766	22°27'34.26"	
TANGENT-CURVE	78.559	314951.681	5844068.796	245.674	22°27'34.26"	
CURVE	80.000	314952.225	5844070.130	245.666	21°54'58.94"	-152.000
CURVE	90.000	314955.650	5844079.523	245.616	18°08'48.88"	-152.000
CURVE	100.000	314958.449	5844089.121	245.566	14°22'38.83"	-152.000
CURVE	110.000	314960.612	5844098.883	245.516	10°36'28.78"	-152.000
CURVE	120.000	314962.129	5844108.765	245.467	6°50'18.72"	-152.000
CURVE	130.000	314962.992	5844118.726	245.416	3°04'08.67"	-152.000
CURVE-TANGENT	138.405	314963.210	5844127.127	245.374	359°54'03.33"	-152.000
STRAIGHT	140.000	314963.207	5844128.722	245.367	359°54'03.33"	
STRAIGHT	160.000	314963.172	5844148.722	245.266	359°54'03.33"	
STRAIGHT	180.000	314963.138	5844168.722	245.166	359°54'03.33"	
STRAIGHT	200.000	314963.103	5844188.722	245.066	359°54'03.33"	
STRAIGHT (END ALN)	213.836	314963.079	5844202.558	245.115	359°54'03.33"	



HORIZONTAL ALIGNMENT REPORT FOR WESTGARTH AVENUE DESIGN LINE

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
STRAIGHT (START ALN)	0.000	314851.433	5844025.230	247.152	22°27'34.26"	
STRAIGHT	20.000	314859.074	5844043.713	246.929	22°27'34.26"	
STRAIGHT	40.000	314866.715	5844062.196	246.806	22°27'34.26"	
STRAIGHT	60.000	314874.355	5844080.679	246.675	22°27'34.26"	
TANGENT-CURVE	78.559	314881.445	5844097.830	246.554	22°27'34.26"	
CURVE	80.000	314881.983	5844099.167	246.544	21°22'23.62"	-76.000
CURVE	86.667	314884.138	5844105.474	246.500	16°20'50.21"	-76.000
CURVE	93.333	314885.731	5844111.945	246.457	11°19'16.81"	-76.000
CURVE	100.000	314886.752	5844118.531	246.413	6°17'43.41"	-76.000
CURVE	106.667	314887.191	5844125.181	246.369	1°16'10.00"	-76.000
CURVE-TANGENT	108.482	314887.210	5844126.996	246.358	359°54'03.33"	-76.000
STRAIGHT	120.000	314887.190	5844138.514	246.282	359°54'03.33"	
STRAIGHT	140.000	314887.155	5844158.514	246.151	359°54'03.33"	
STRAIGHT	160.000	314887.121	5844178.514	246.020	359°54'03.33"	
TANGENT-CURVE	172.782	314887.099	5844191.296	245.936	359°54'03.33"	
CURVE	173.333	314887.096	5844191.847	245.933	359°35'07.04"	-100.000
CURVE	180.000	314886.826	5844198.507	245.889	355°45'56.05"	-100.000
CURVE	186.667	314886.112	5844205.134	245.845	351°56'45.07"	-100.000
CURVE-CURVE	186.937	314886.074	5844205.402	245.844	351°47'27.62"	-100.000
CURVE	193.333	314885.364	5844211.757	245.802	355°27'21.17"	100.000
CURVE	200.000	314885.058	5844218.416	245.758	359°16'32.15"	100.000
CURVE-TANGENT	201.264	314885.050	5844219.680	245.750	359°59'60.00"	100.000
STRAIGHT	220.000	314885.017	5844238.416	245.627	359°54'03.33"	
STRAIGHT	240.000	314884.983	5844258.416	245.496	359°54'03.33"	
STRAIGHT	260.000	314884.948	5844278.416	245.365	359°54'03.33"	
STRAIGHT	280.000	314884.913	5844298.416	245.234	359°54'03.33"	
STRAIGHT	300.000	314884.879	5844318.416	245.103	359°54'03.33"	
TANGENT-CURVE	307.899	314884.865	5844326.314	245.051	359°54'03.33"	
CURVE	313.333	314885.003	5844331.747	245.016	3°00'53.04"	100.000
CURVE	320.000	314885.576	5844338.387	244.972	6°50'04.03"	100.000
CURVE	326.667	314886.589	5844344.975	244.928	10°39'15.02"	100.000
CURVE-TANGENT	328.573	314886.959	5844346.846	244.916	11°44'48.05"	100.000
STRAIGHT	340.000	314889.286	5844358.033	244.841	11°44'48.05"	
STRAIGHT	360.000	314893.357	5844377.614	244.710	11°44'48.05"	
STRAIGHT	380.000	314897.429	5844397.195	244.579	11°44'48.05"	
STRAIGHT	400.000	314901.501	5844416.776	244.448	11°44'48.05"	
STRAIGHT	420.000	314905.572	5844436.358	244.317	11°44'48.05"	
STRAIGHT (END ALN)	426.740	314906.945	5844442.957	244.273	11°44'48.05"	

HORIZONTAL ALIGNMENT REPORT FOR MACARTHUR WAY DESIGN LINE

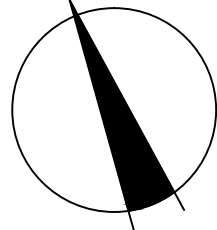
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		X	Y			
STRAIGHT (START ALN)	0.000	314887.202	5844125.748	246.365	269°54'03.33"	
STRAIGHT	20.000	314867.202	5844125.713	246.348	269°54'03.33"	
TANGENT-CURVE	33.270	314853.932	5844125.691	246.460	269°54'03.33"	
CURVE	36.000	314851.205	5844125.810	246.486	275°06'54.50"	30.000
CURVE	40.000	314847.257	5844126.431	246.524	282°45'16.48"	30.000
CURVE	44.000	314843.426	5844127.571	246.562	290°23'38.45"	30.000
CURVE-TANGENT	45.081	314842.419	5844127.966	246.573	292°27'34.26"	30.000
STRAIGHT	60.000	314828.632	5844133.665	246.716	292°27'34.26"	
STRAIGHT	80.000	314810.149	5844141.306	246.907	292°27'34.26"	
STRAIGHT	100.000	314791.666	5844148.947	247.099	292°27'34.26"	
STRAIGHT	120.000	314773.183	5844156.587	247.268	292°27'34.26"	
STRAIGHT	140.000	314754.700	5844164.228	247.367	292°27'34.26"	
STRAIGHT	160.000	314736.217	5844171.868	247.467	292°27'34.26"	
STRAIGHT	180.000	314717.734	5844179.509	247.567	292°27'34.26"	
STRAIGHT	200.000	314699.251	5844187.150	247.667	292°27'34.26"	
STRAIGHT	220.000	314680.768	5844194.790	247.767	292°27'34.26"	
TANGENT-CURVE	230.553	314671.016	5844198.822	247.870	292°27'34.26"	
CURVE	235.000	314666.836	5844200.336	247.887	287°21'47.51"	-50.000
CURVE-TANGENT	236.107	314665.776	5844200.654	247.921	286°05'40.92"	-50.000
STRAIGHT	240.000	314662.035	5844201.734	248.037	286°05'40.92"	
STRAIGHT (END ALN)	241.153	314660.927	5844202.053	248.072	286°05'40.92"	

1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL
REV	AMENDMENTS	DATE	APPD.

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541178
Verified S.LEA
Date 28/05/15
AN 1081764
Audited B.GORDON
Date 18/09/15
AN 162547
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884434

AS CONSTRUCTED

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



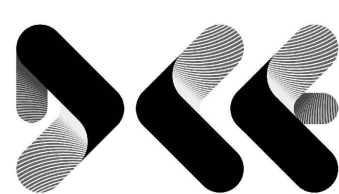
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Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 12
SET OUT DETAILS

Drawing No. 11732SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED

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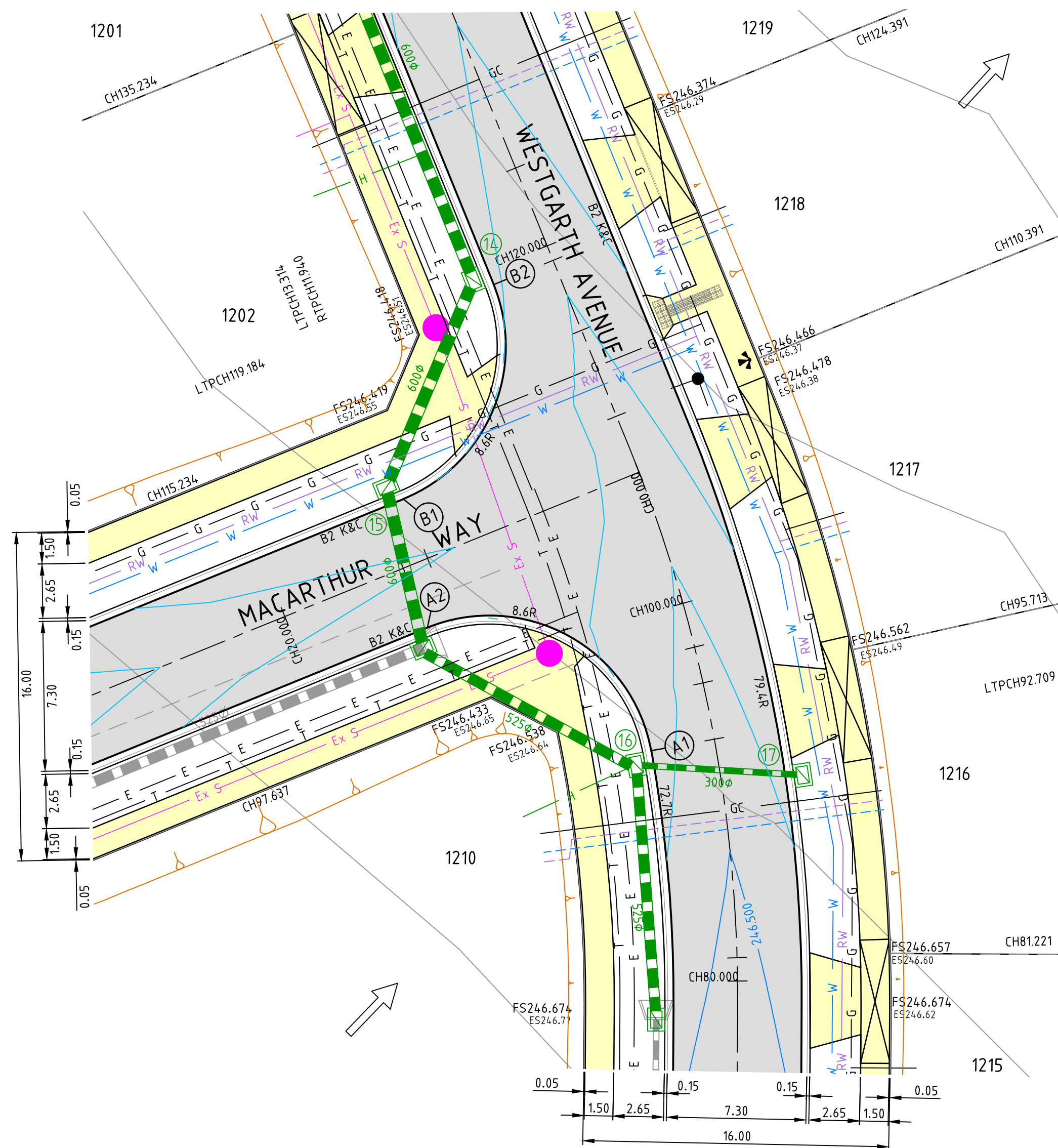


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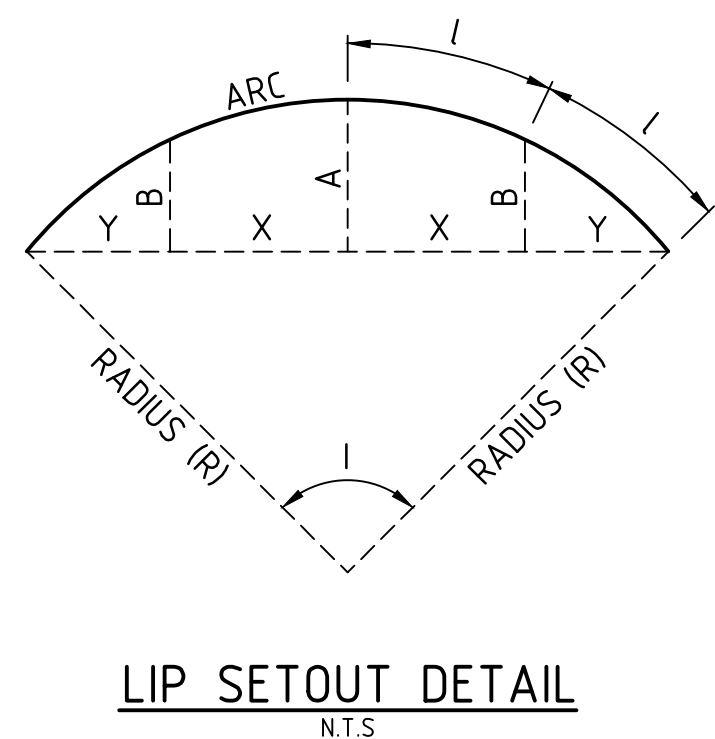
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Drawing File: G:\Design\117321\117321-merrifield - precinct 1 - stage 12\road\RD\117321D01.dwg - 11/2/2001
Date/Time: Thu Feb 25, 2016 - 2:07pm --Robert Young--



PLAN



WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN
ON THESE PLANS MUST BE PROVEN ON SITE,
THE APPROPRIATE AUTHORITY MUST BE
CONTACTED AND THE SERVICES LOCATED PRIOR
TO COMMENCEMENT OF ANY WORKS.

ALIGNMENT A

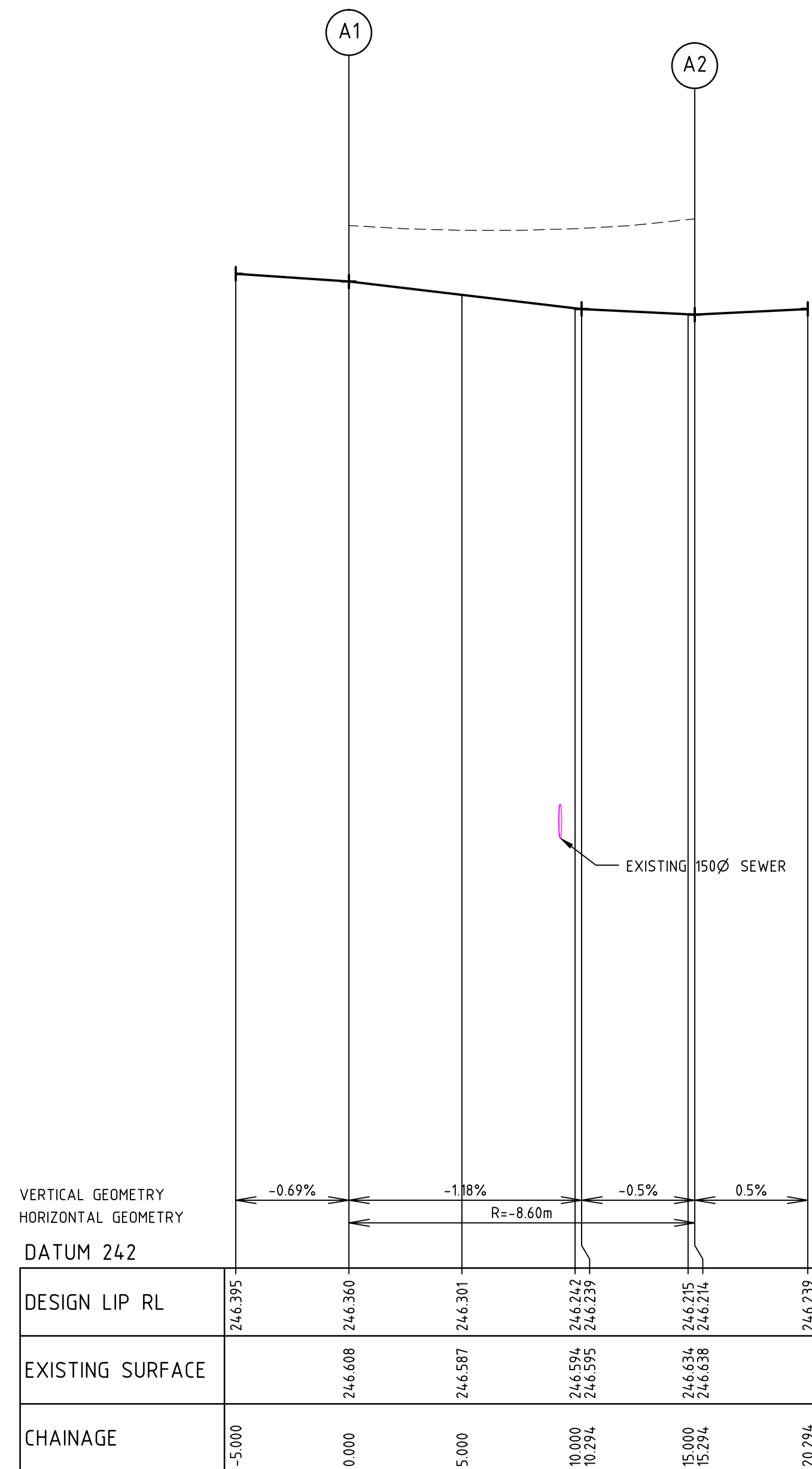
POINT NO	EASTING	NORTHING	RL
A1	314882.327	5844112.018	246.360
A2	314873.893	5844122.375	246.214

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	101.891	8.600	15.294	3.181	2.345	3.699	2.980	3.823	246.270

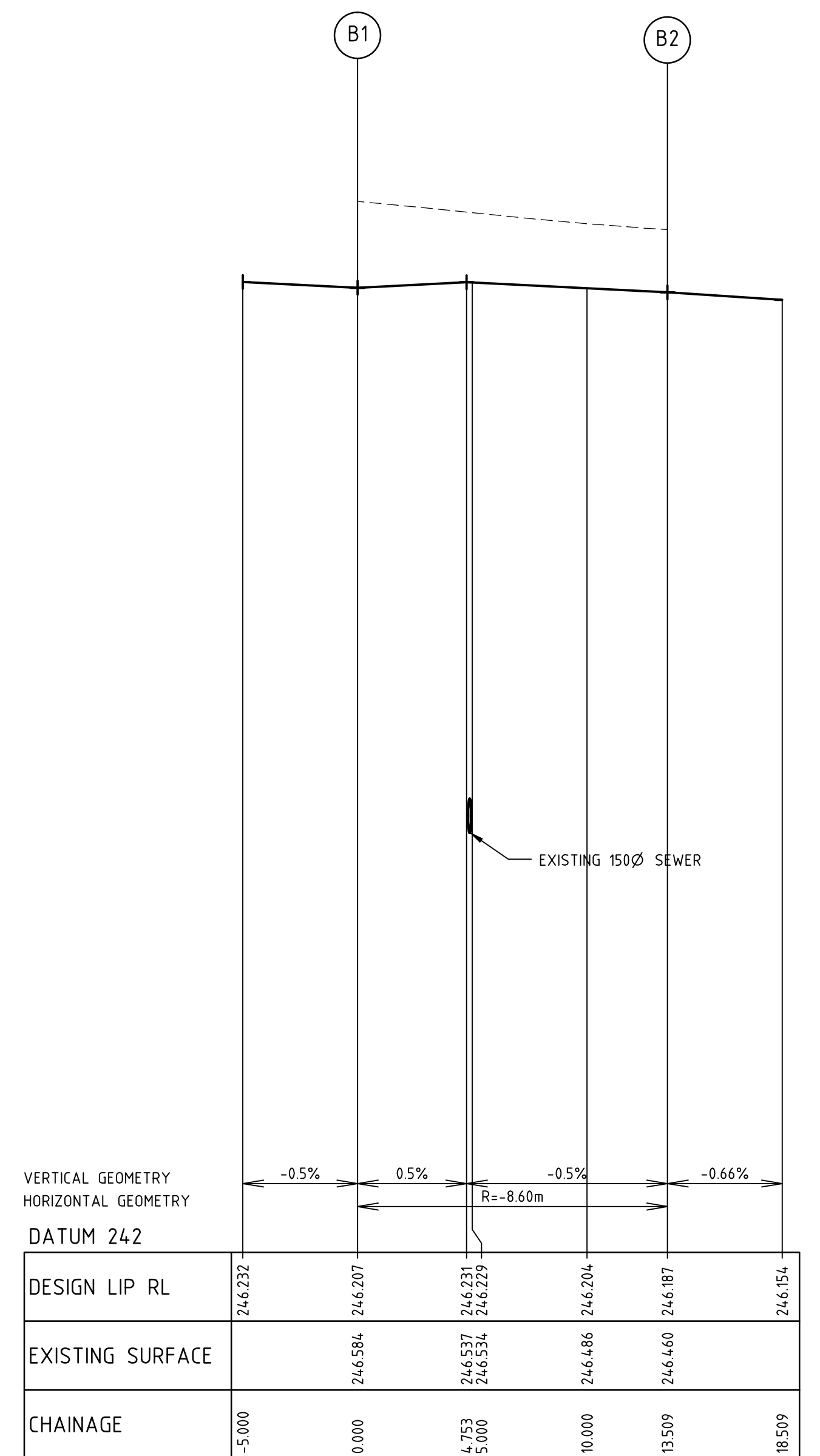
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	314875.256	5844129.077	246.207
B2	314883.841	5844137.692	246.187

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	246.200



LIP PROFILE A



LIP PROFILE B

AS CONSTRUCTED

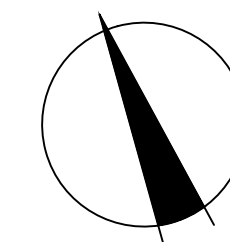
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0	CONSTRUCTION ISSUE	18/09/15	TL

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541179
Verified S.LEA
Date 28/05/15
AN 1081765
Audited B.GORDON
Date 18/09/15
AN 162548
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884435

- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex V EXISTING ELEC. POLE & O'HEAD LINES
- Ex V EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)

- 300Ø BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

- W WATER
- RW RECYCLED WATER
- T TELSTRA/BNB
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- REGRADE LOT AT MIN 1 IN 150
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- FILLING OVER 300mm
- FINISHED SURFACE CONTOUR



merrifield
MAB gpc

Coords: MGA
Levels: AHD

Scale @ A1/A3 1:200/1:400

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
INTERSECTION DETAILS

Drawing No. 117321D01 Rev 2
Sheet No. 06 AS CONSTRUCTED
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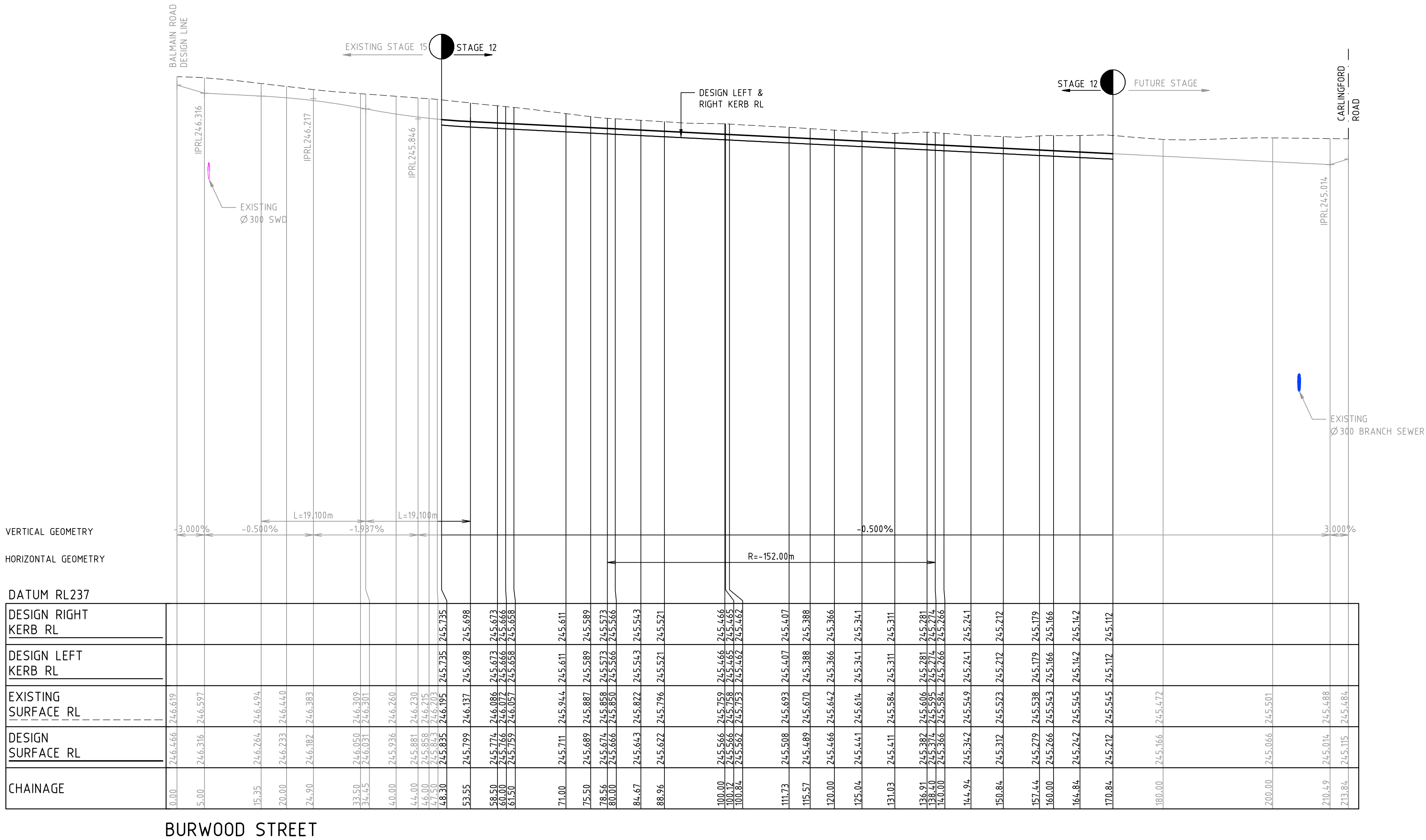
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Date/Time: Thu Feb 25, 2016 - 2:08pm --Robert Young--



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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541180
Verified S.LEA
Date 28/05/15
AN 1061766
Audited B.CORDON
Date 18/09/15
AN 162549
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884436

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11732LS01 Rev 1
Sheet No. 07 AS CONSTRUCTED
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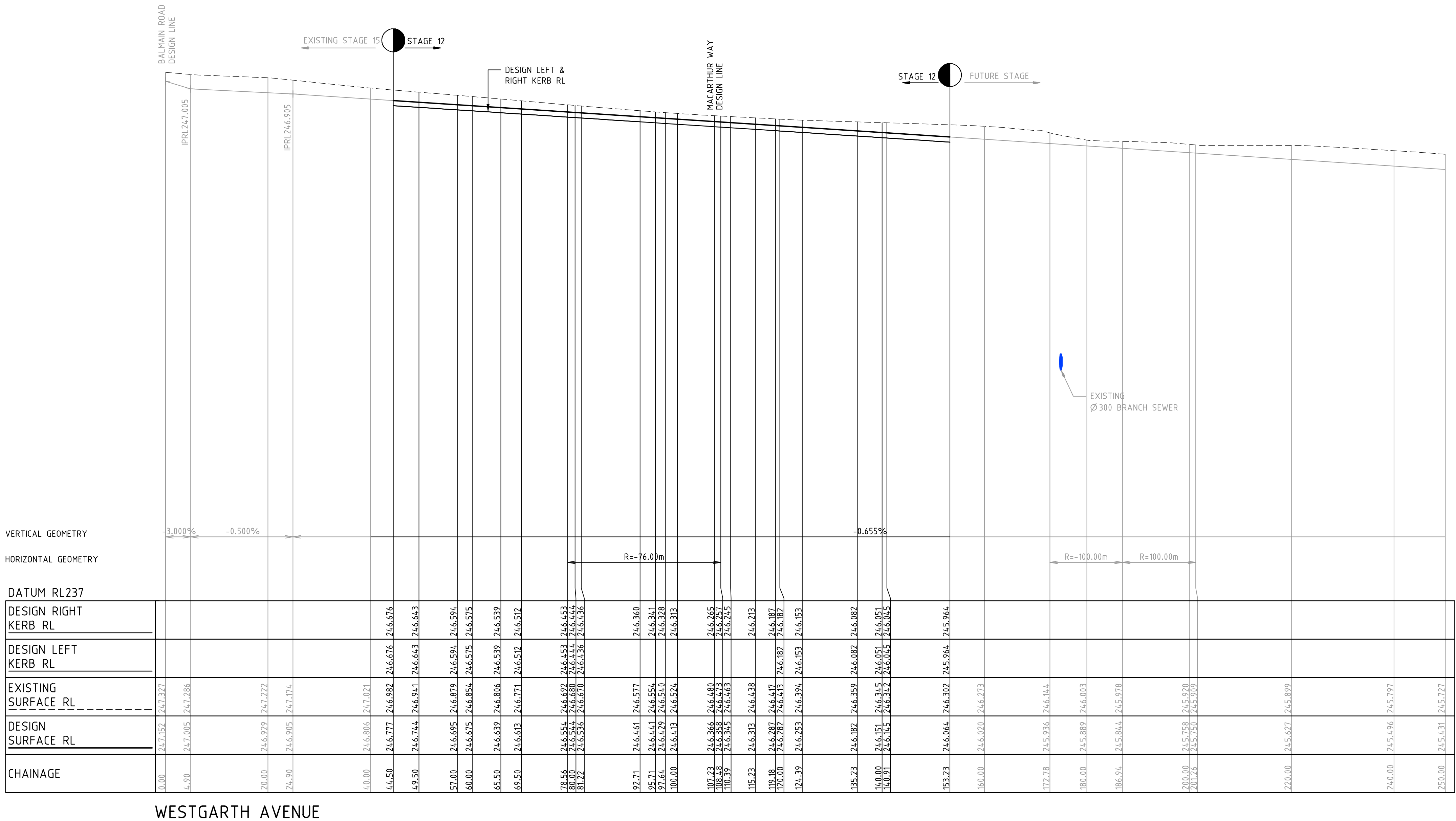


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1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL
REV	AMENDMENTS	DATE	APP'D.

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Designed N.MIRATANA
Date 14/05/15
AN 1541181
Verified S.LEA
Date 28/05/15
AN 1061767
Audited B.GORDON
Date 18/09/15
AN 162550
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884437

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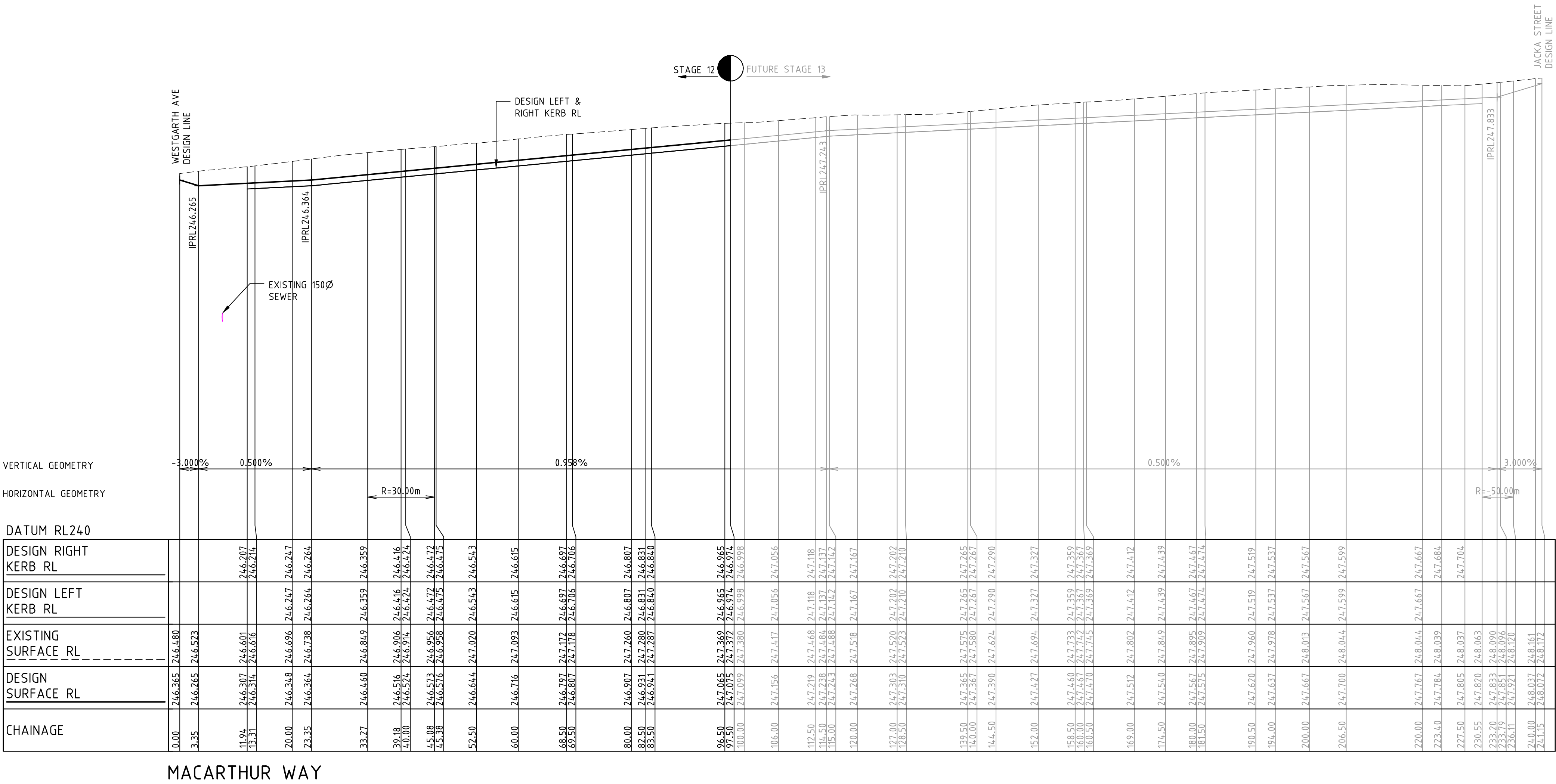
merrifield
MAB gpc

Coords: MGA
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Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 12
LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 11732LS02 Rev 1
Sheet No. 08 AS CONSTRUCTED
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Date/Time: Thu Feb 25, 2016 - 2:08pm --Robert Young--



AS CONSTRUCTED

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REV	AMENDMENTS	DATE	APP'D.

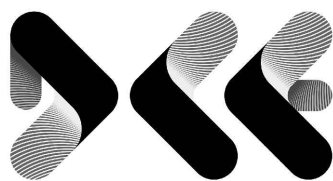
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Date 15/05/15
AN 1511016
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Date 14/05/15
AN 1541182
Verified S.LEA
Date 28/05/15
AN 1061768
Audited B.CORDON
Date 18/09/15
AN 162551
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884438

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11732LS03 **Rev 1**
Sheet No. 09 **AS CONSTRUCTED**
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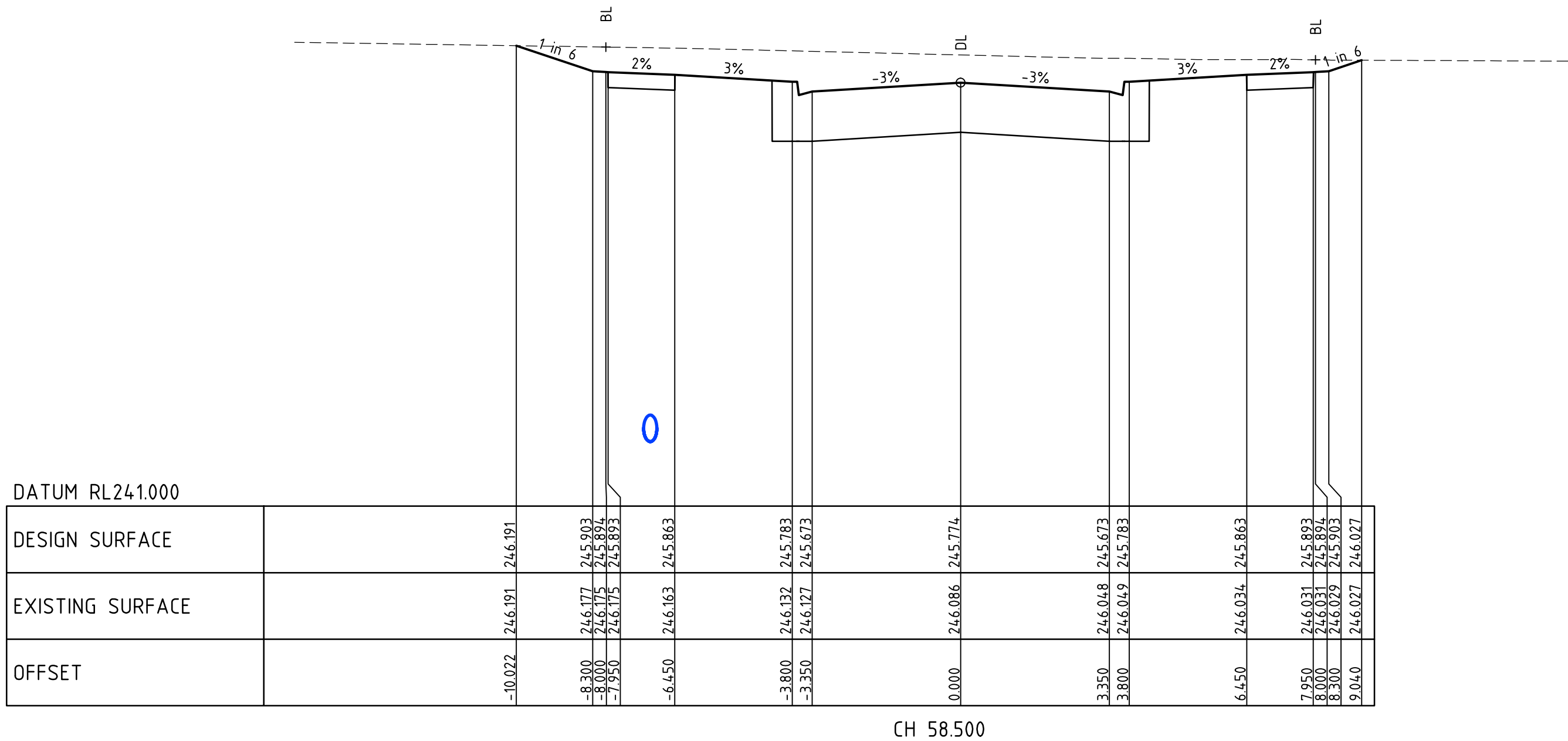
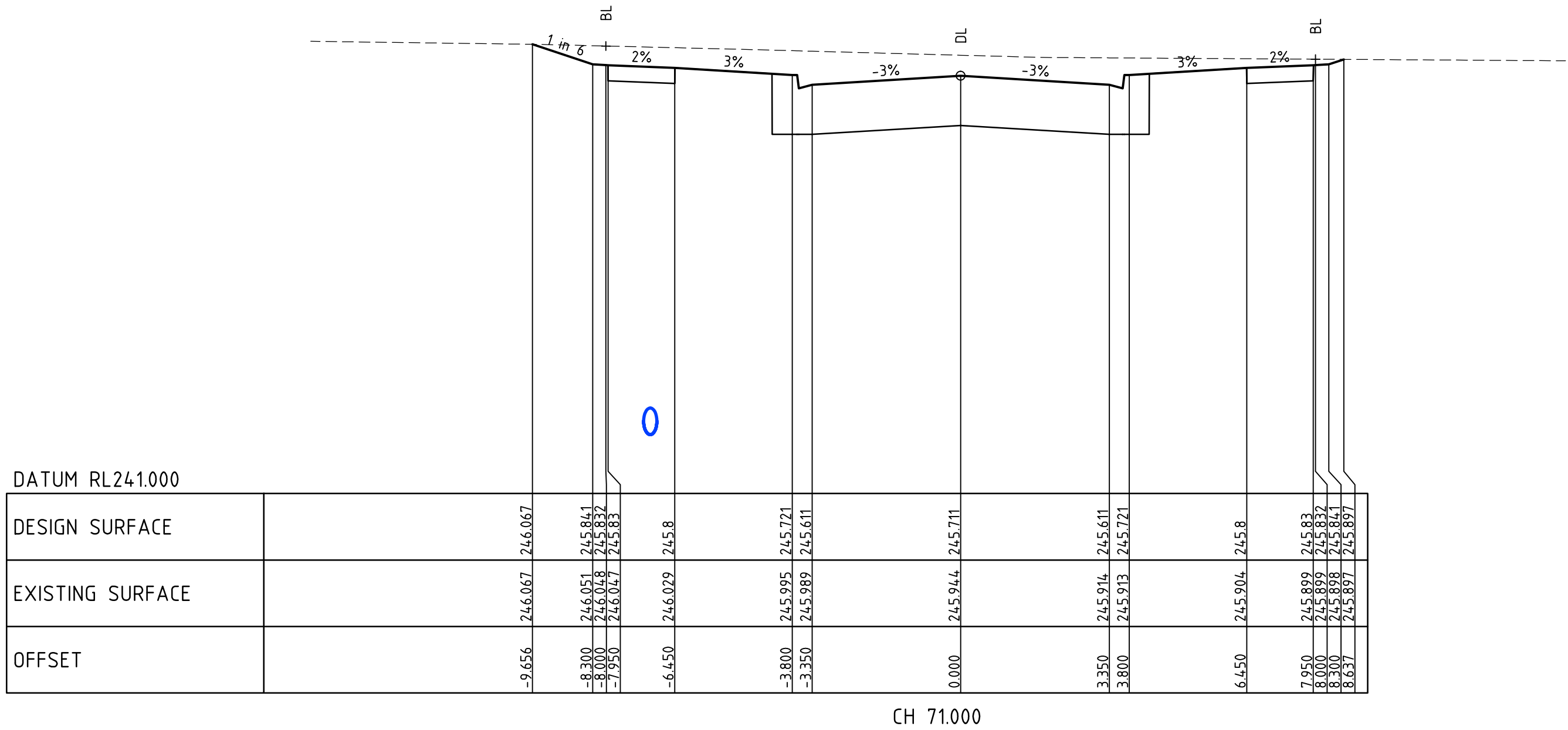
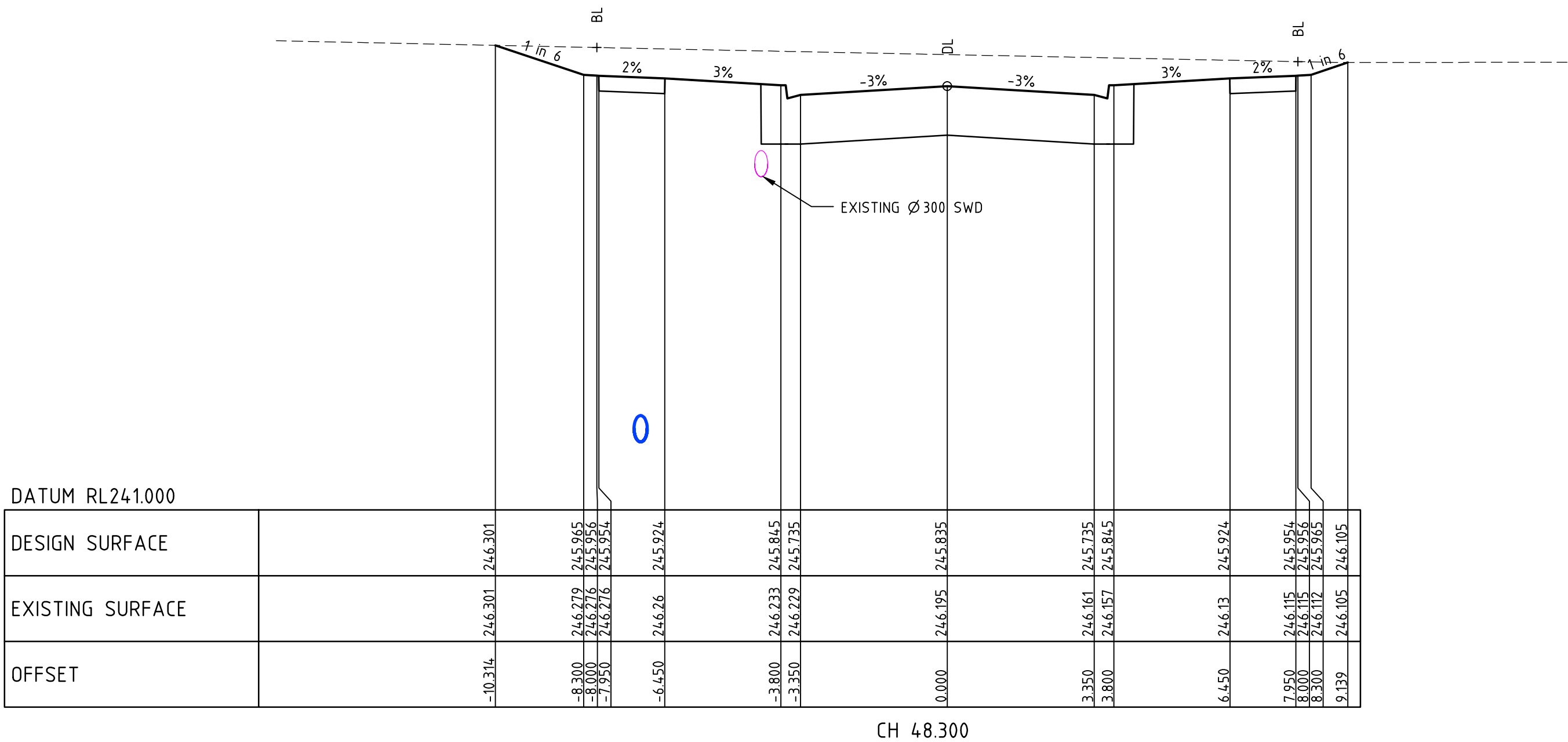
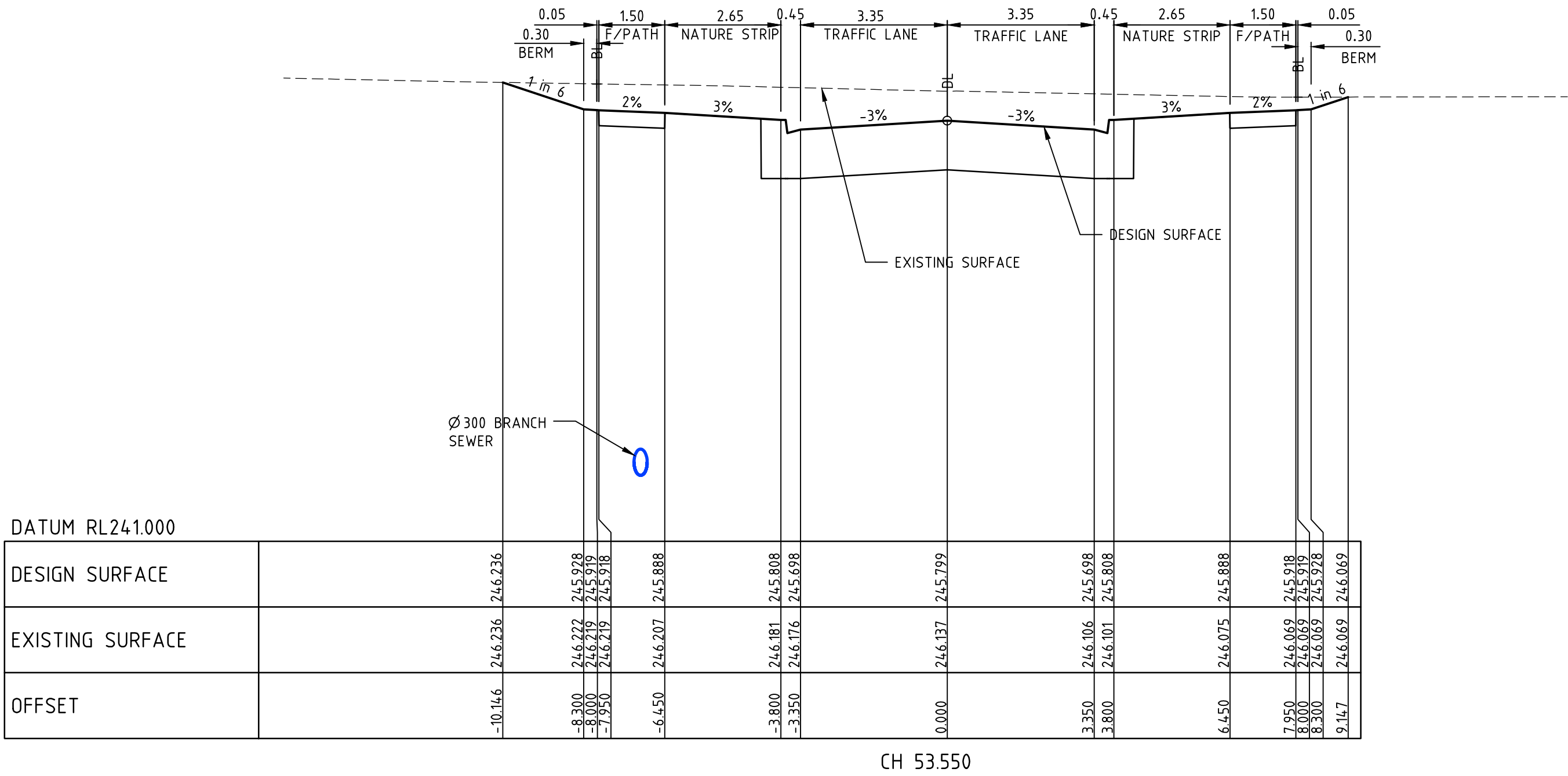


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BURWOOD STREET

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL

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Date 15/05/15
AN 1511016
Designed N.MIRATANA
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AN 1541183
Verified S.LEA
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Audited B.GORDON
Date 18/09/15
AN 162552
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884439

AS CONSTRUCTED

merrifield
MAB gpc

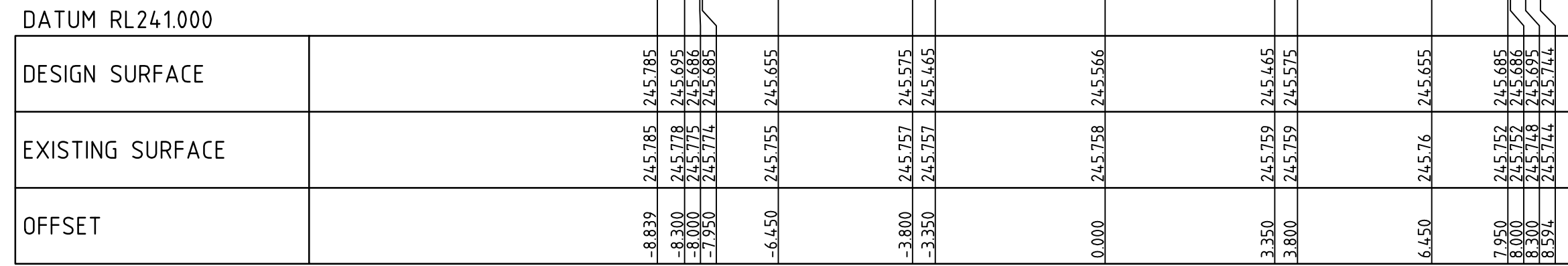
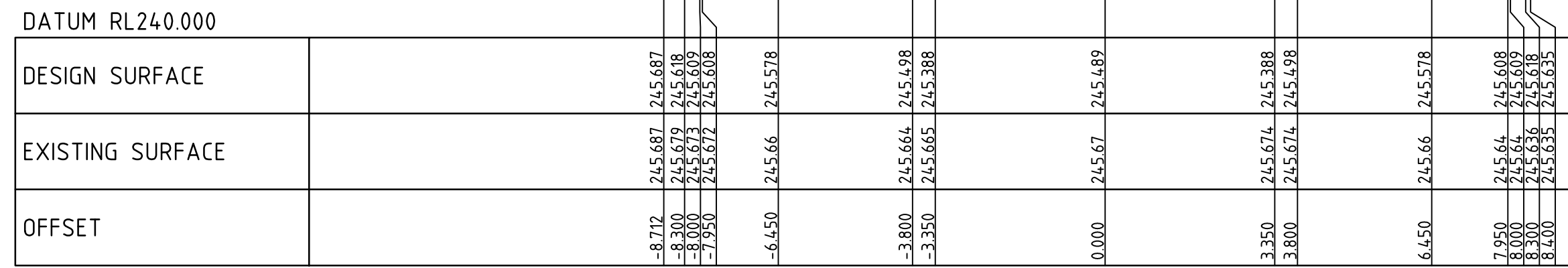
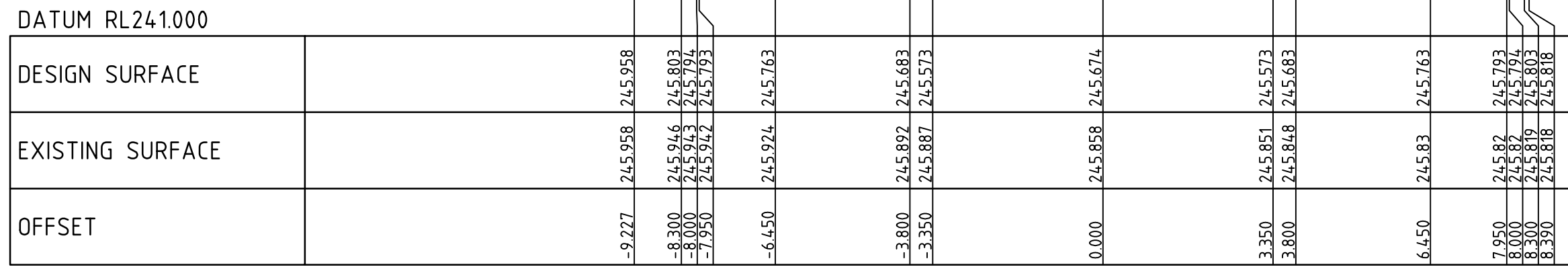
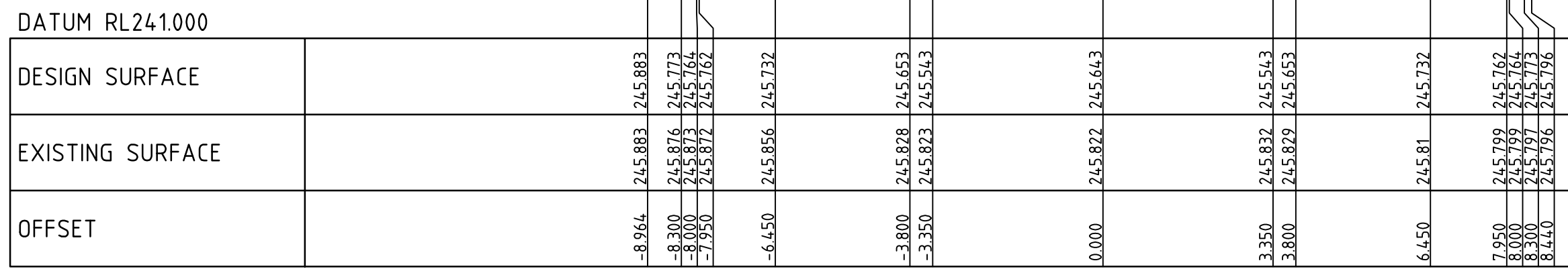
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Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
CROSS SECTIONS
SHEET 01 OF 06
Drawing No. 11732XS01 Rev 1
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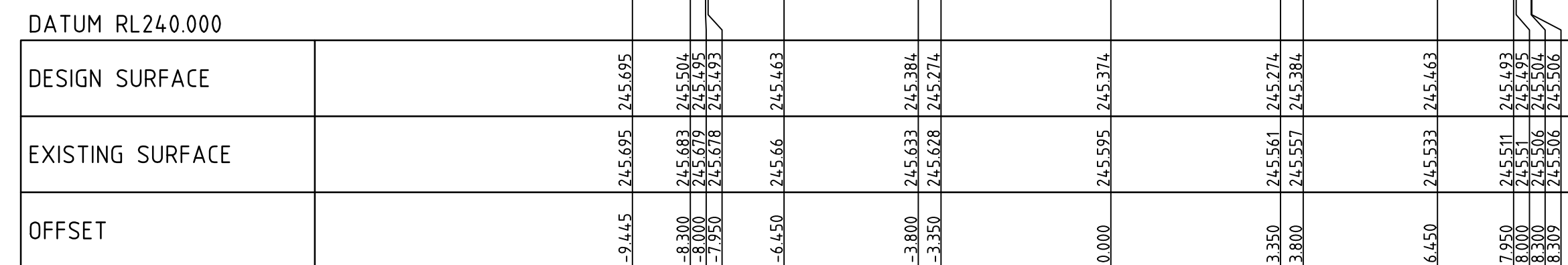
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
CROSS SECTIONS
SHEET 02 OF 06
Drawing No. 11732XS02 Rev 1
Sheet No. 11 **AS CONSTRUCTED**
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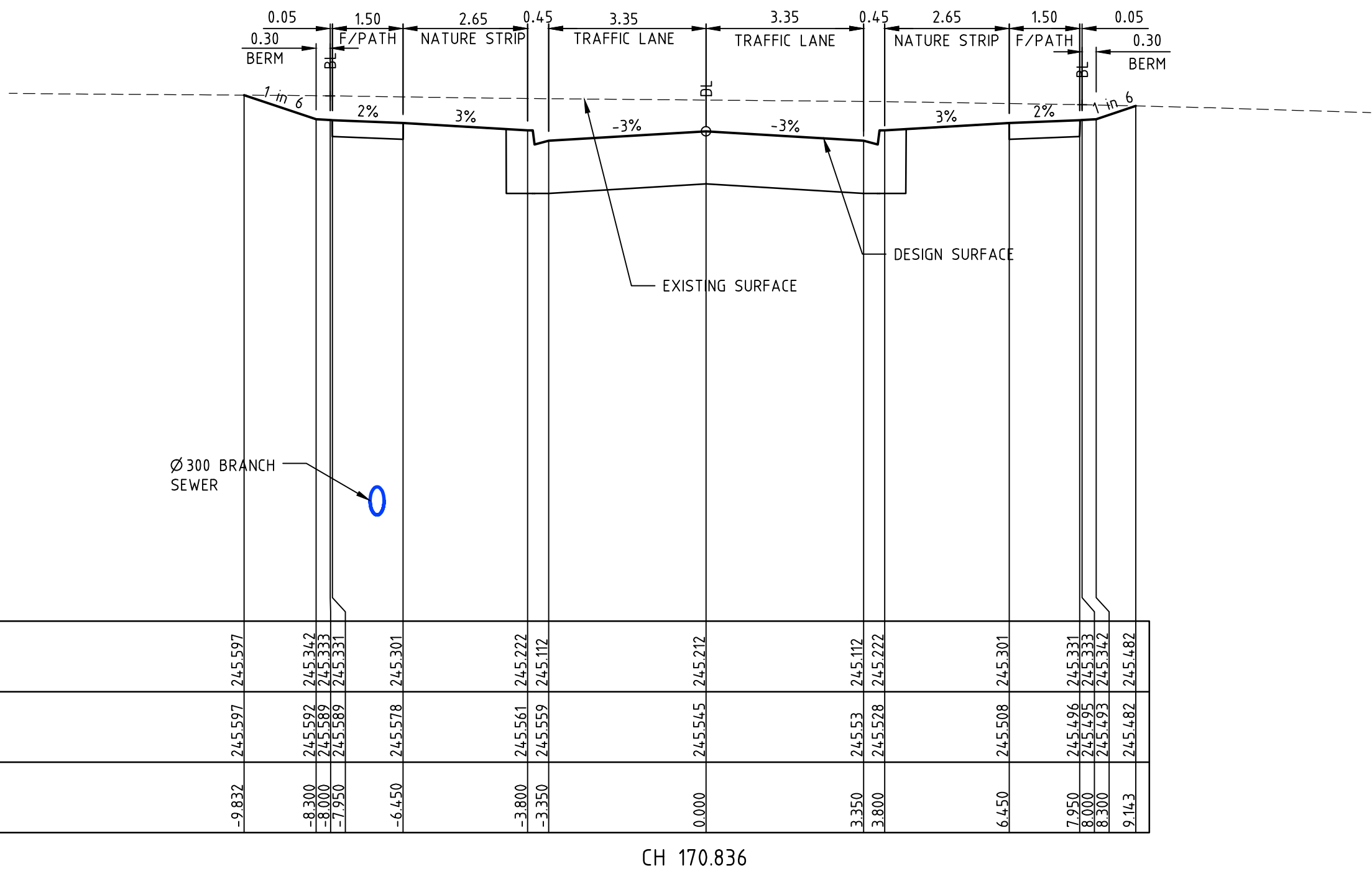


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DESIGN SURFACE		
EXISTING SURFACE		
OFFSET		

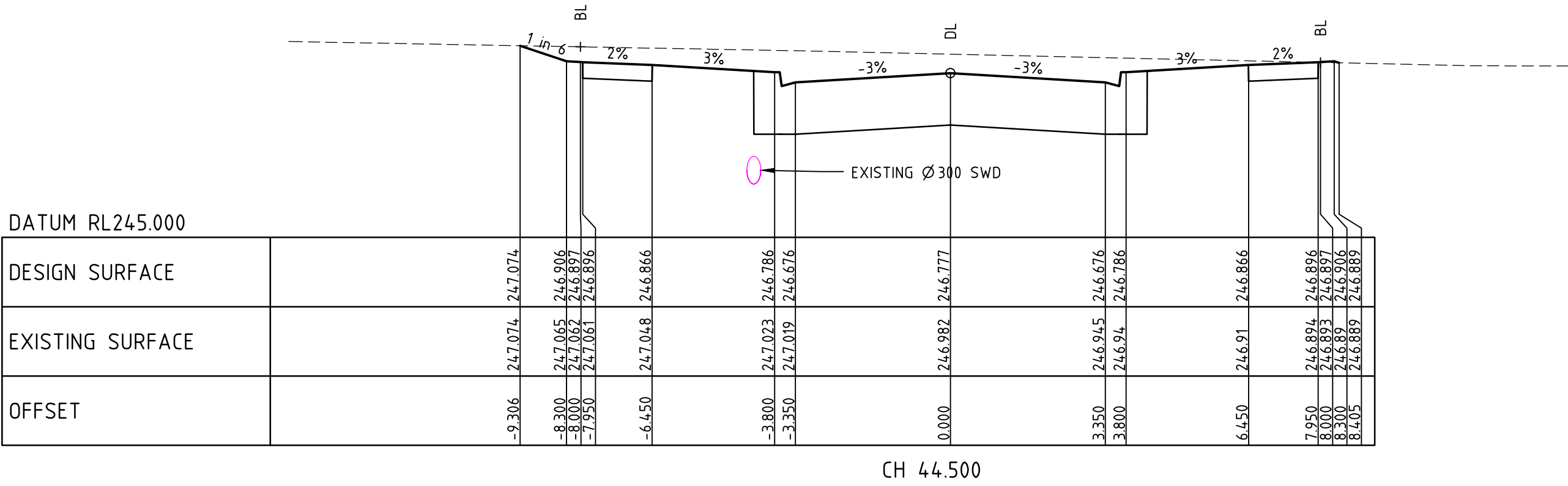
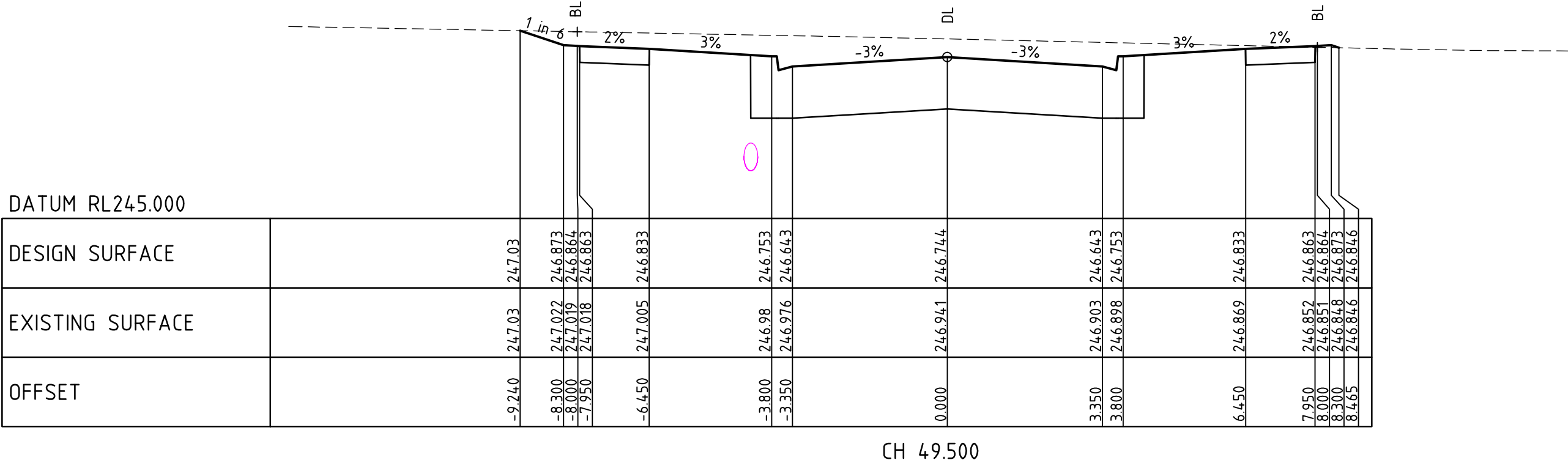
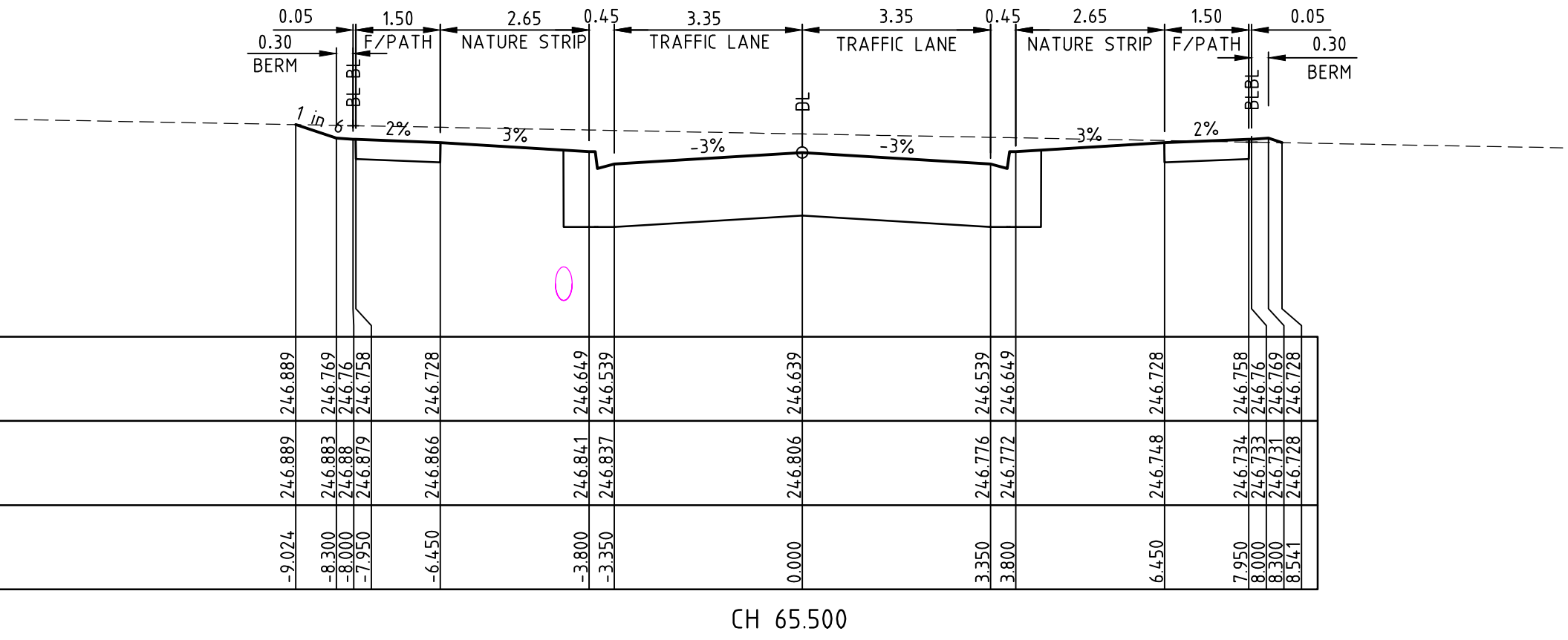
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BURWOOD STREET



WESTGARTH AVENUE

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Date 15/05/15
AN 1511016
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Date 14/05/15
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AN 1061772
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Date 18/09/15
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Date 18/09/15
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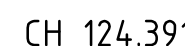
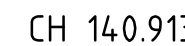
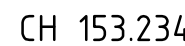
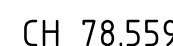
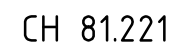
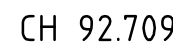
AS CONSTRUCTED

merrifield
MAB gpc

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Levels: AHD
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Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
CROSS SECTIONS
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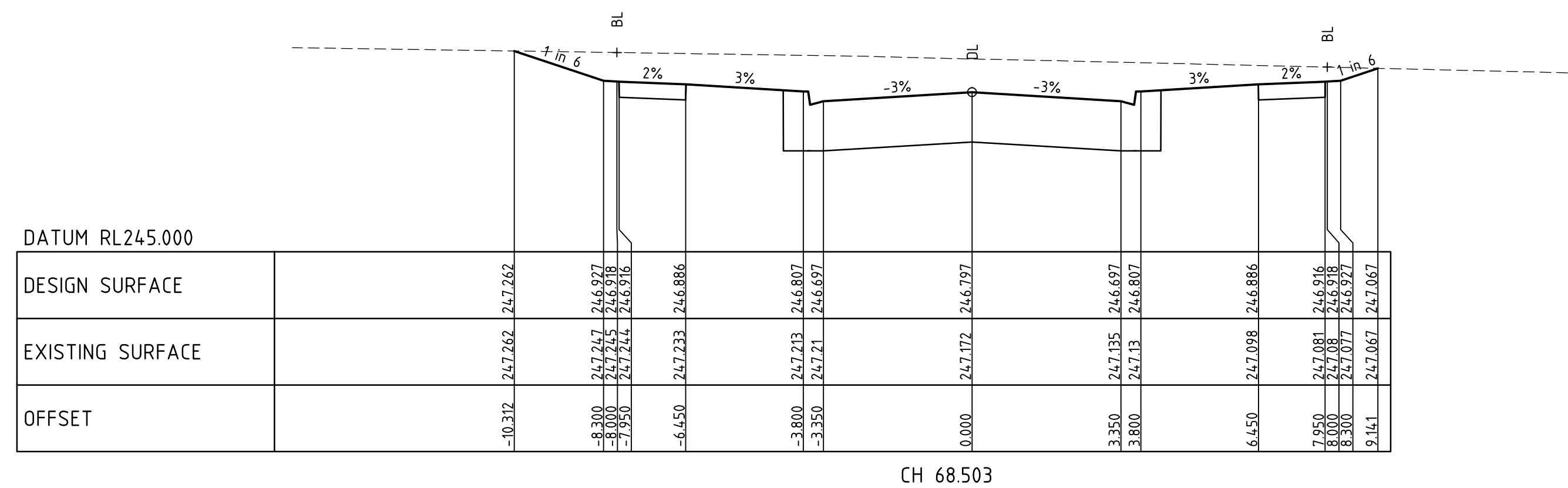
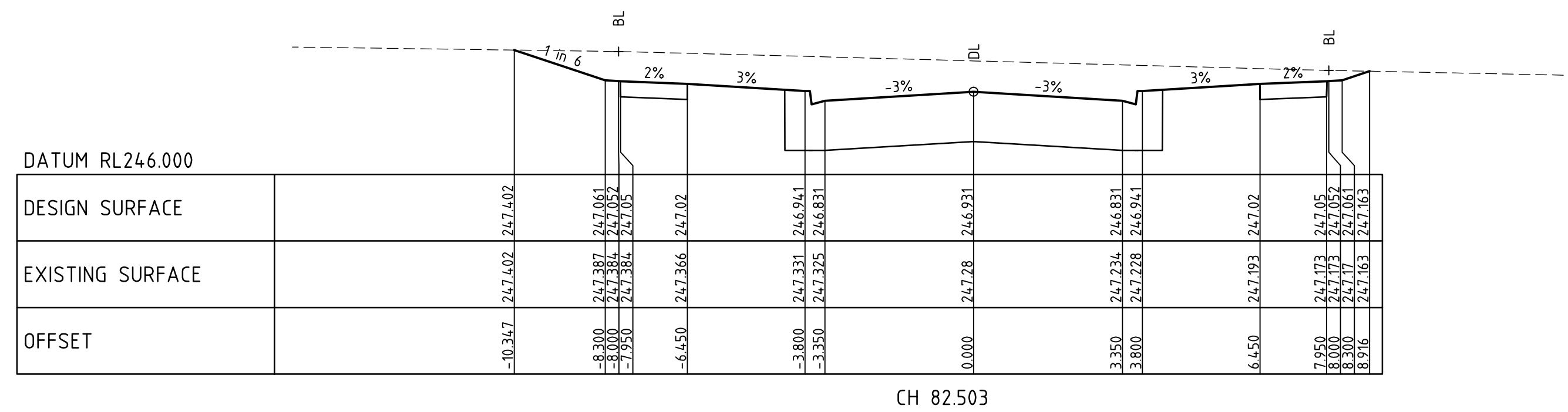
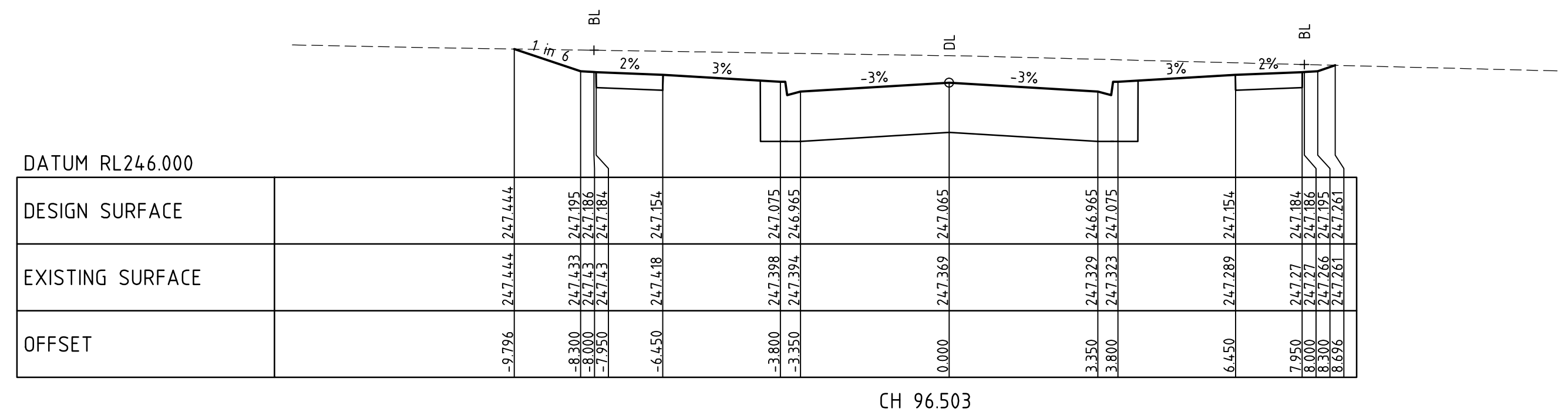
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
CROSS SECTIONS
SHEET 05 OF 06
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Date 18/09/15
AN 162557
Approved T. LIAKOPOULOS
Date 18/09/15
AN 884444



merrifield

MAB gpc

Coords: MGA
Levels: AHD

MERRIFIELD DEVELOPMENT

DONNYBROOK ROAD, MICKLEHAM

STAGE 12

CROSS SECTIONS

SHEET 06 OF 06

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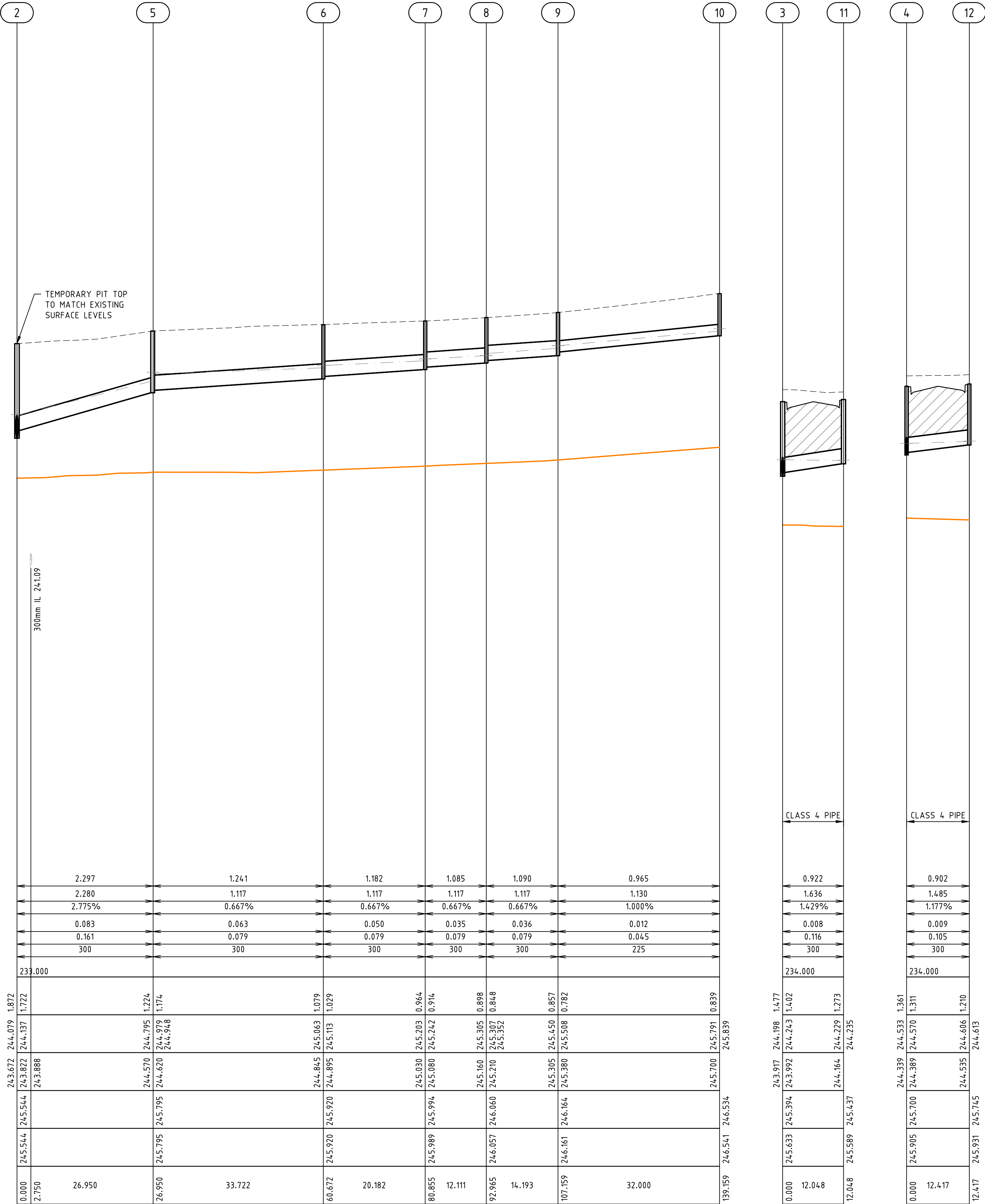
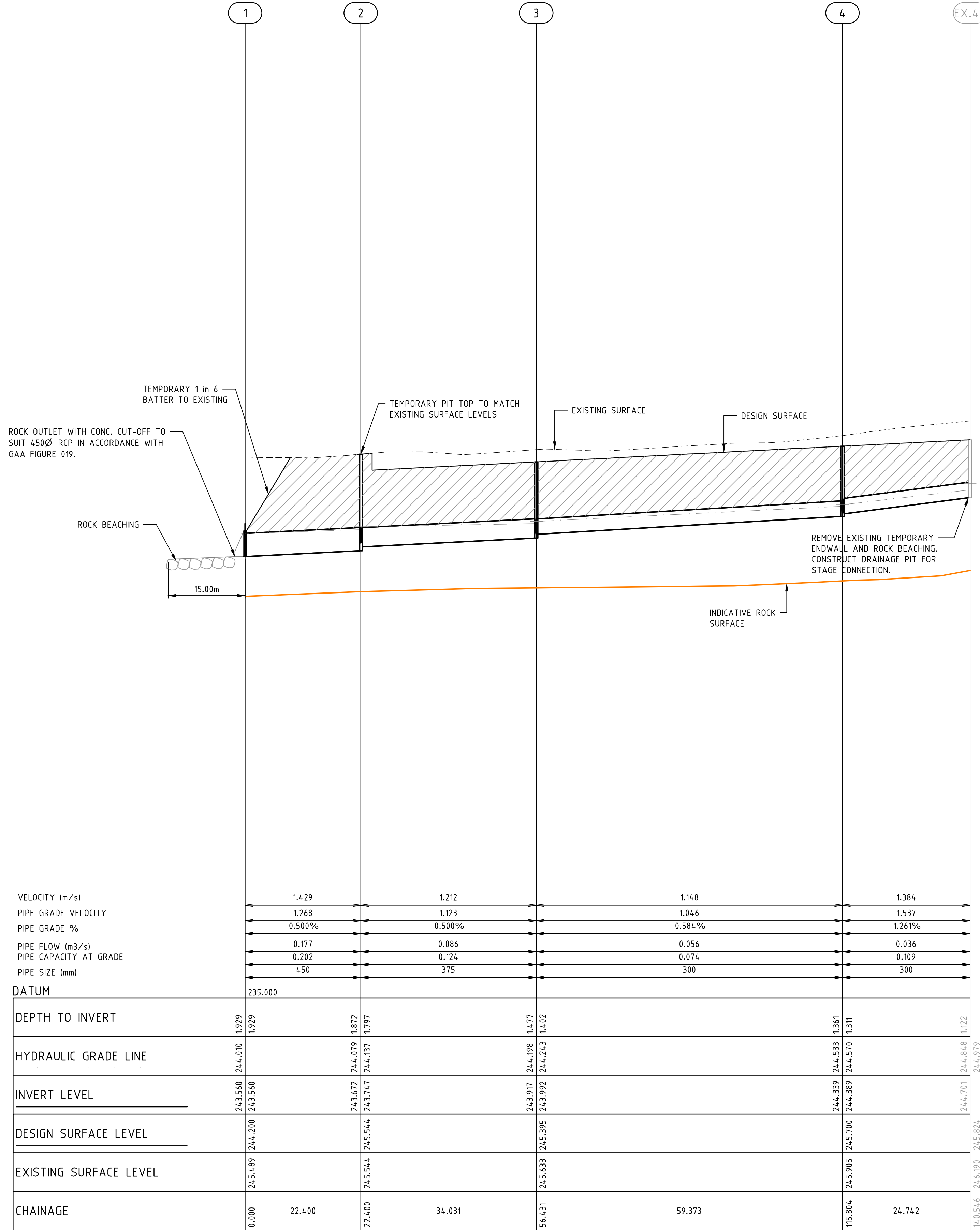
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Scale @ A1/A3 1:100/1:200

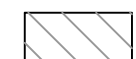
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Verified S.LEA
Date 28/05/15
AN 1081775
Audited B.GORDON
Date 18/09/15
AN 162558
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884445

LEGEND



DENOTES CLASS 2 CRUSHED ROCK BACKFILL

AS CONSTRUCTED



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
DRAINAGE LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11732DR01 Rev 1
AS CONSTRUCTED
Sheet No. 16
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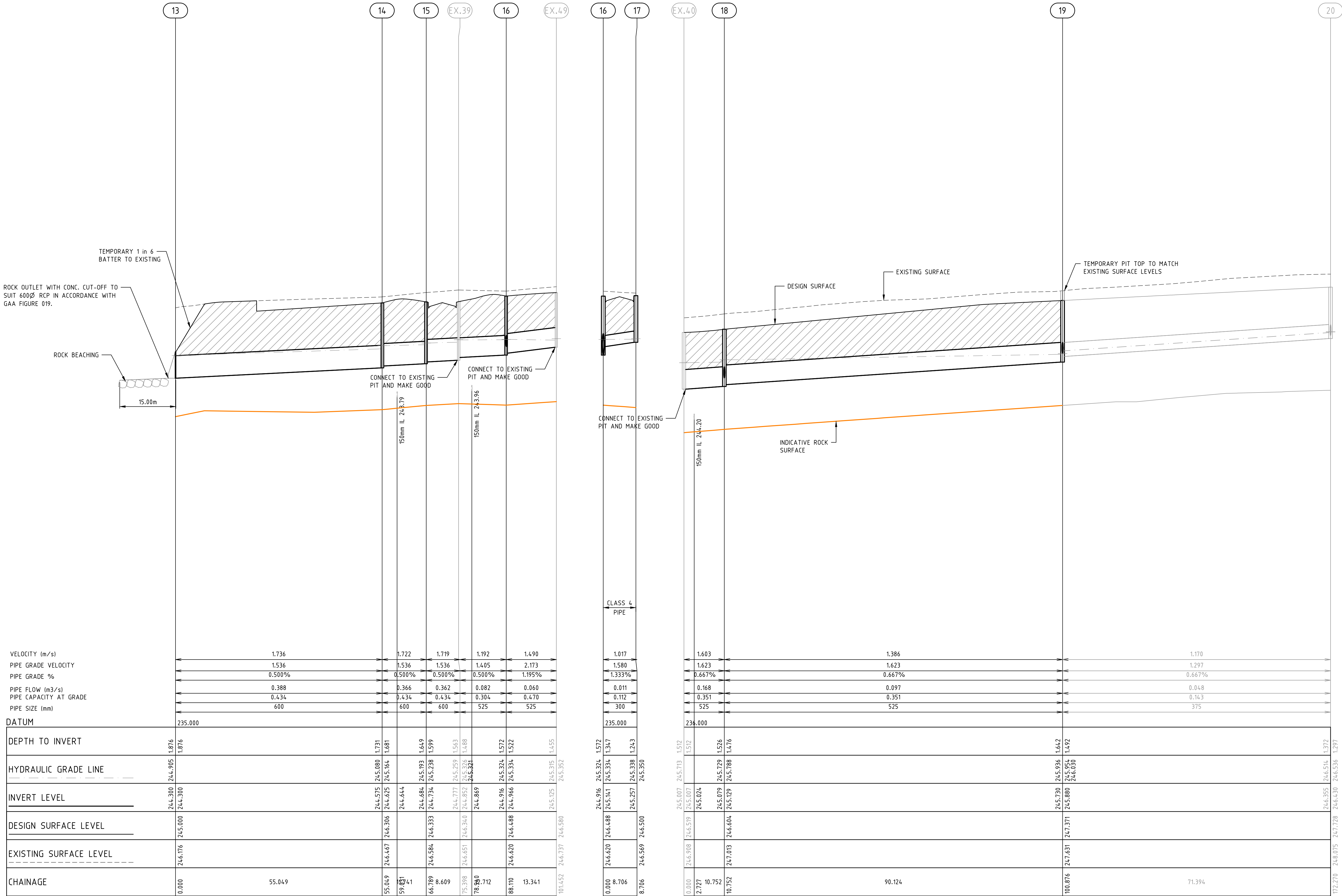
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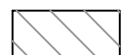
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Audited B.GORDON
Date 18/09/15
AN 162559
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884446

LEGEND



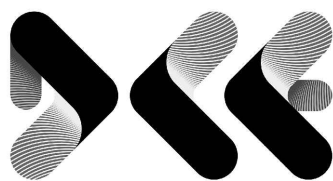
DENOTES CLASS 2 CRUSHED ROCK BACKFILL

AS CONSTRUCTED



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
DRAINAGE LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 11732DR02 Rev 1
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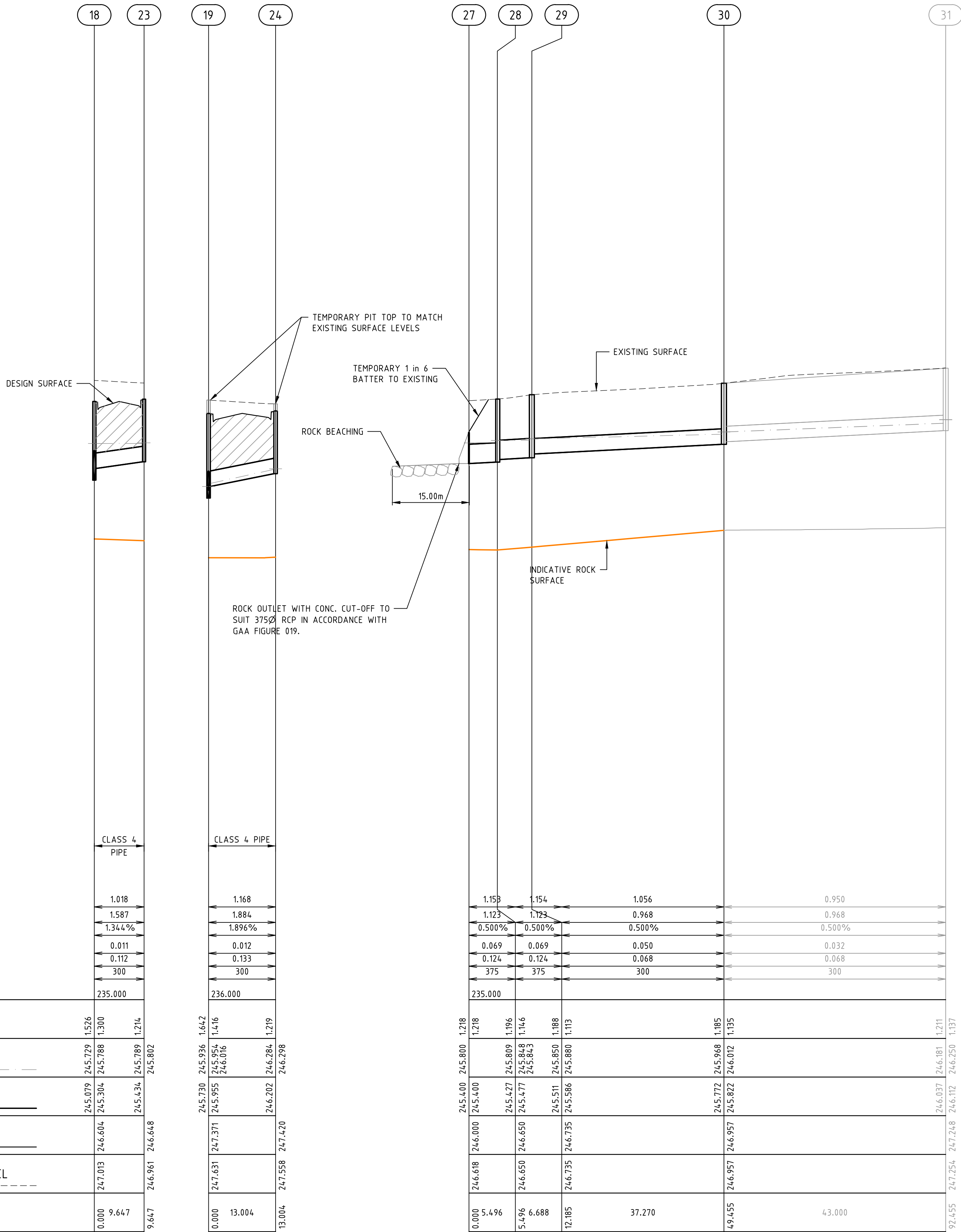


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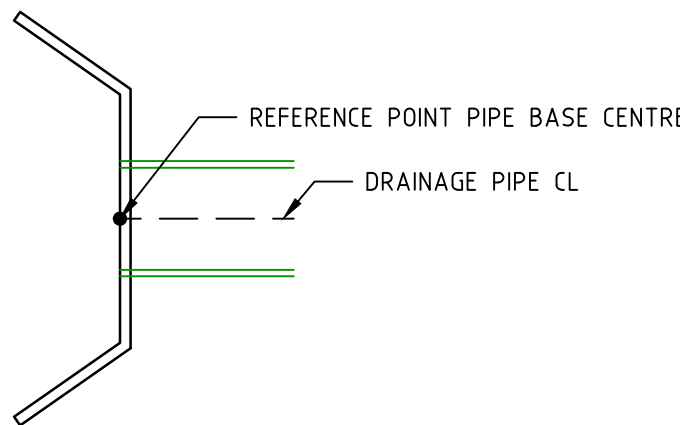
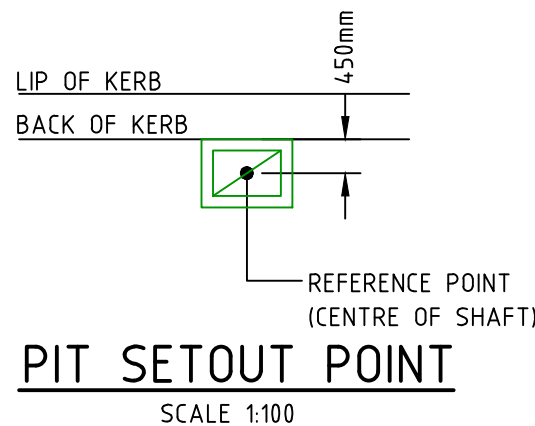
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Date/Time: Thu Feb 25, 2016 - 2:08pm --Robert Young--



KEY:
GSEP = GRATED SIDE ENTRY PIT
JP = JUNCTION PIT
EW = ENDWALL
EX = EXISTING PIT
PP = PIPE TO PIPE CONNECTION
(T) = TOP INTERNAL PIT DIMENSION
(B) = BOTTOM INTERNAL PIT DIMENSION

- NOTES :
- EASTING, NORTHING SETOUT TO CENTRE OF PIT COVER SHAFT.
 - SETOUT LEVEL TO PIT COVER LEVEL.
 - EASTING, NORTHING ENDWALL SETOUT POINTS QUOTED TO PIPE BASE CENTRE.
 - ALL PIT COVERS TO BE IN ACCORDANCE TO MPA STD FIGURE 012.
 - STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 900mm IN DEPTH.
 - PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm.
 - ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED TO GROWTH AREA AUTHORITY (GAA) SPECIFICATIONS.
 - PIT BASE TO BE SHAPED WITH MASS CONCRETE FOR SMOOTH HYDRAULIC FLOW.
 - ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC UNLESS OTHERWISE SHOWN. ALL PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.
 - ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HCC SD245.



TEMPORARY OUTLET
ROCK ENDWALL SETOUT POINT
N.T.S

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT		REMARKS
				WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
1	EW	314958.861	5844184.151			450	243.56			244.2	0.64	OUTFALL STRUCTURE. REF MPA STD DRW FIG. 019
2	GSEP	314958.9	5844161.751	600	900	375	243.747	450	243.672	245.544	1.872	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012
						300	243.822					
3	GSEP	314958.959	5844127.72	600	900	300	243.992	375	243.917	245.395	1.477	REFER TO MPA STD DRG FIG.012
						300	243.992					
4	GSEP	314947.525	5844069.865	600	900	300	244.389	300	244.339	245.7	1.361	REFER TO MPA STD DRG FIG.012
						300	244.389					
5	JP	314931.95	5844161.704	600	900	300	244.62	300	244.57	245.795	1.224	REFER TO MPA STD DRG FIG.014
6	JP	314932.008	5844127.982	600	900	300	244.895	300	244.845	245.92	1.075	REFER TO MPA STD DRG FIG.014
7	JP	314930.487	5844107.857	600	600	300	245.08	300	245.03	245.994	0.964	REFER TO MPA STD DRG FIG.014
8	JP	314927.955	5844096.014	600	600	300	245.21	300	245.16	246.06	0.9	REFER TO MPA STD DRG FIG.014
9	JP	314923.589	5844082.509	600	600	225	245.38	300	245.305	246.164	0.859	REFER TO MPA STD DRG FIG.014
10	JP	314911.364	5844052.936	600	600			225	245.7	246.534	0.834	REFER TO MPA STD DRG FIG.014
11	GSEP	314967.26	5844118.989	600	900			300	244.164	245.437	1.273	REFER TO MPA STD DRG FIG.012
12	GSEP	314951.92	5844058.252	600	900			300	244.535	245.745	1.21	REFER TO MPA STD DRG FIG.012
13	EW	314882.941	5844193.341			600	244.3			245	0.7	OUTFALL STRUCTURE. REF MPA STD DRW FIG. 019
14	GSEP	314882.941	5844138.292	600	900	600	244.625	600	244.575	246.306	1.731	REFER TO MPA STD DRG FIG.012
15	GSEP	314874.655	5844129.975	600	900	600	244.734	600	244.684	246.333	1.649	REFER TO MPA STD DRG FIG.012
16	GSEP	314881.321	5844111.616	600	900	525	244.966	525	244.916	246.488	1.572	REFER TO MPA STD DRG FIG.012
						300	245.141					
17	GSEP	314889.179	5844107.869	600	900			300	245.257	246.5	1.243	REFER TO MPA STD DRG FIG.012. PIT TO HAVE HEAVY DUTY LID.
18	GSEP	314839.961	5844124.383	600	900	525	245.129	525	245.079	246.604	1.526	REFER TO MPA STD DRG FIG.012
						300						
19	GSEP	314756.672	5844158.814	600	900	375	245.88	525	245.73	247.371	1.642	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012
						300	245.955					
23	GSEP	314838.992	5844133.981	600	900			300	245.434	246.648	1.214	REFER TO MPA STD DRG FIG.012
24	GSEP	314750.822	5844170.427	600	900			300	246.202	247.42	1.219	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012
27	EW	314847.333	5844173.679			375	245.4			246	0.6	OUTFALL STRUCTURE. REF MPA STD DRW FIG. 019
28	JP	314847.333	5844168.183	600	900	375	245.477	375	245.427	246.623	1.196	REFER TO MPA STD DRG FIG.014
29	JP	314840.864	5844166.482	600	900	300	245.586	375	245.511	246.699	1.188	REFER TO MPA STD DRG FIG.014
30	JP	314806.421	5844180.72	600	900	300	245.822	300	245.772	246.957	1.185	REFER TO MPA STD DRG FIG.014
Ex.39	GSEP	314873.295	5844121.474	600	900	525	244.852	600	244.777	246.34	1.563	CONNECT TO EXISTING PIT
Ex.40	GSEP	314850.301	5844121.434	600	900	525	245.007			246.519	1.512	CONNECT TO EXISTING PIT
Ex.44	GSEP	314938.072	5844046.999	600	900			300	244.701	245.824	1.123	CONNECT TO EXISTING PIT
Ex.49	GSEP	314877.289	5844098.899	600	900			525	245.125	246.58	1.455	CONNECT TO EXISTING PIT

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2	AS CONSTRUCTED	25/02/16	TL
1	PIT 17 REMARKS AMENDED	18/12/15	TL
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Date 14/05/15
AN 1541191
Verified S.LEA
Date 28/05/15
AN 1081777
Audited B.GORDON
Date 18/09/15
AN 162560
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884447

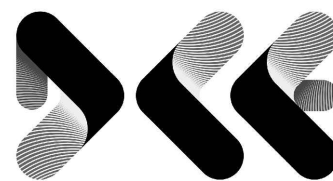
LEGEND
DENOTES CLASS 2 CRUSHED ROCK BACKFILL

AS CONSTRUCTED



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11732DR03 Rev 2
Sheet No. 18 AS CONSTRUCTED
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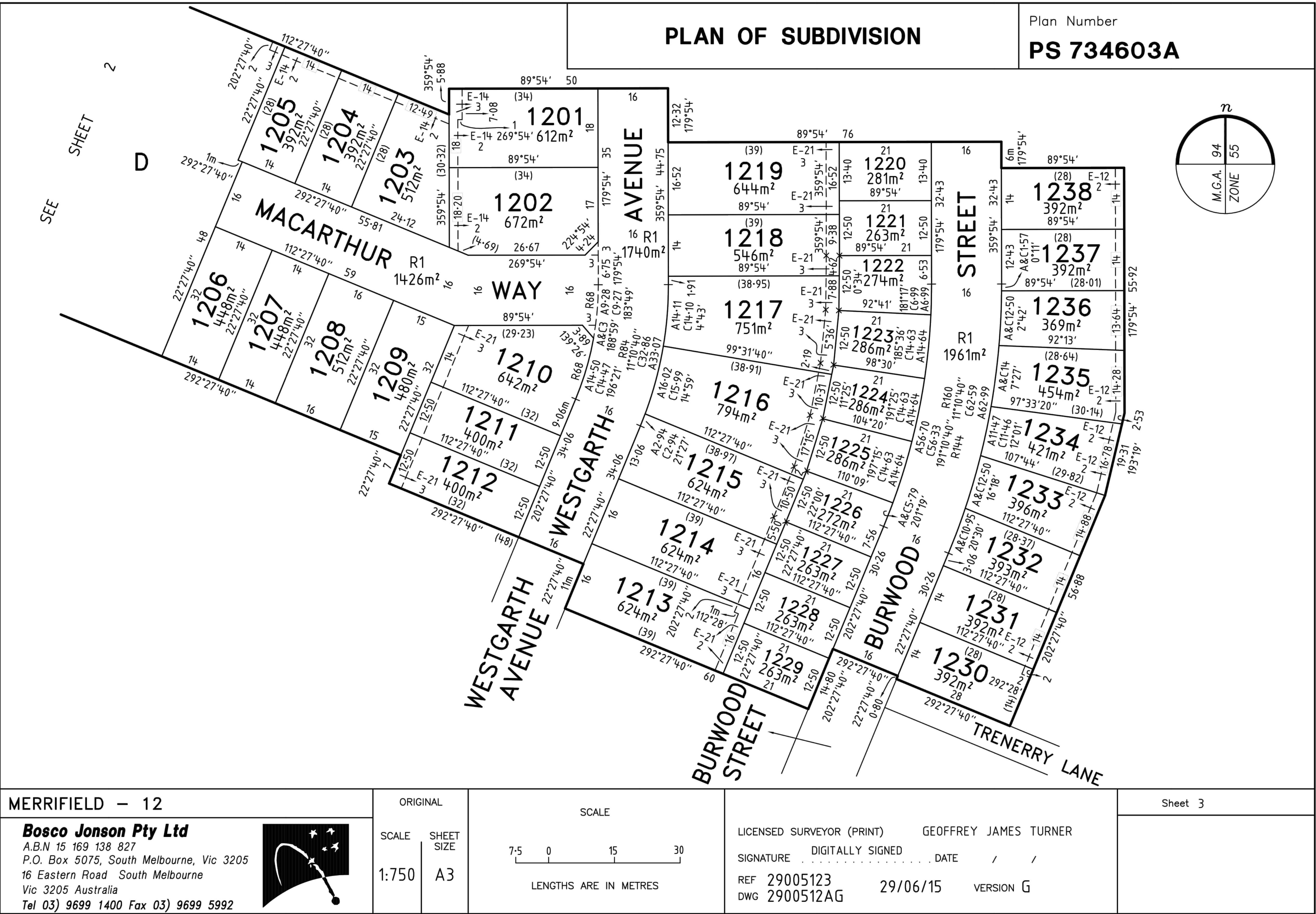


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Drawing File: G:\design\11700\11702-merrifield - precinct 1 - stage 12\cad\REV
11732POS01.dwg - 11732POS01
Date/Time: Thu Feb 25, 2016 - 2:09pm - Robert Young



Drawing File: G:\design\11732\11732-merrifield - precinct 1 - stage 12\cad\11732FP01.dwg - 11732FP01
Date/Time: Thu Feb 25, 2016 - 2:09pm -- Robert Young--



FILL PLAN NOTES

THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.

THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.

THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.

FILLING SHOWN LESS THAN 200mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.

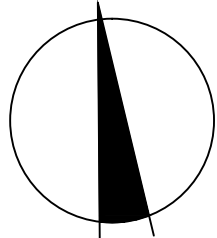
IRRESPECTIVE OF THE DEPTH OF FILLING FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A SOIL CLASSIFICATION AND REPORT PREPARED FOR THE PURPOSE AND IN ACCORDANCE WITH THE APPROPRIATE BUILDING REGULATIONS.

THE AREA MARKED THUS ON THIS PLAN INDICATES FILL DEEPER THAN 200mm PLACED ON ALLOTMENTS.

THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.

- LEGEND
- LIMIT OF WORKS
 - ES EXISTING SURFACE LEVEL
 - FS FINISHED SURFACE LEVEL

AS CONSTRUCTED



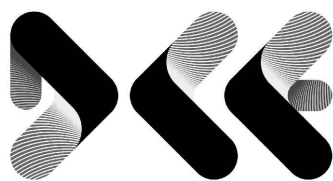
merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 12
FILL PLAN

Drawing No. 11732FP01 Rev 1
Sheet No. 20 AS CONSTRUCTED

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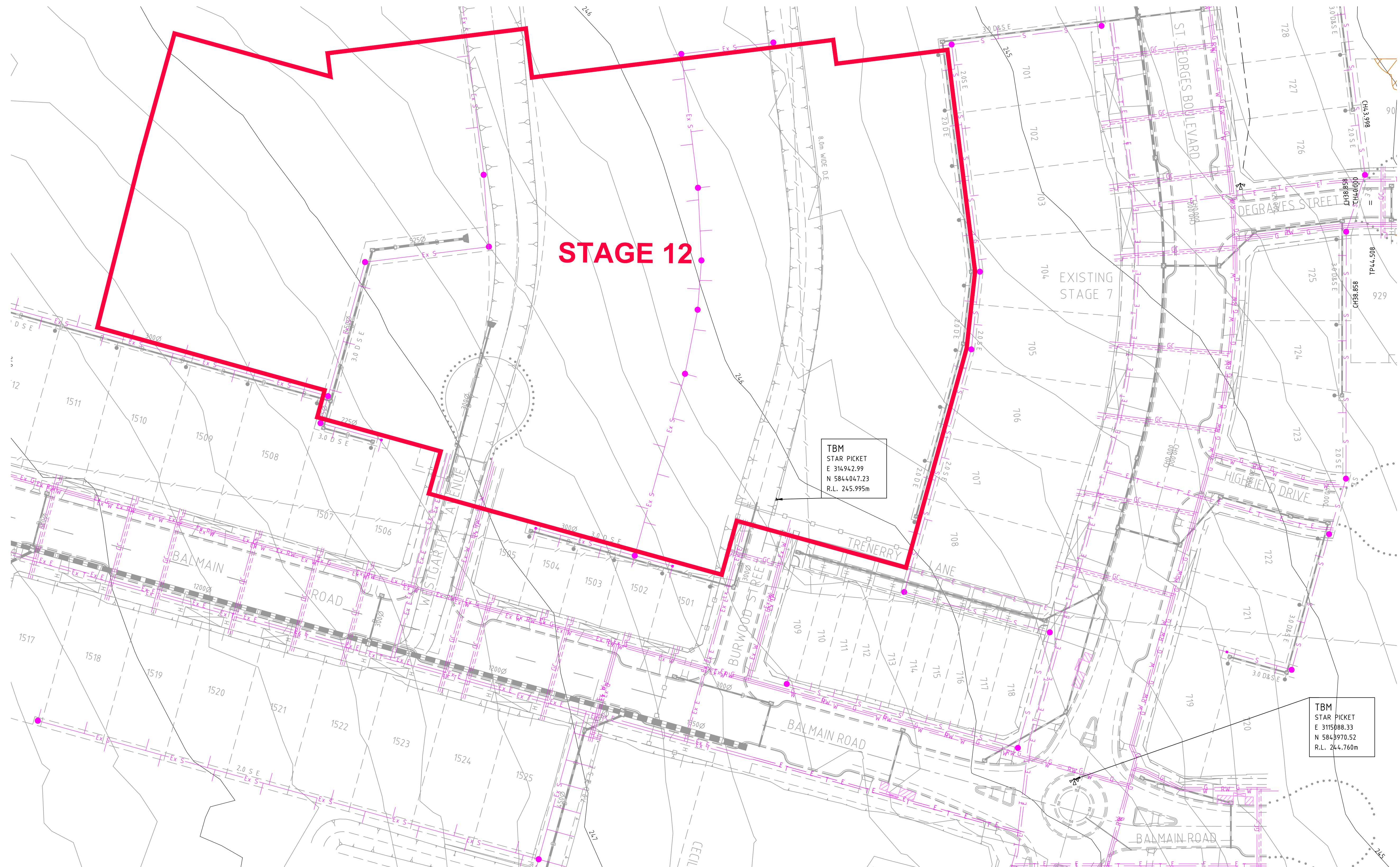
VICTORIA
T 61 3 9888 6866
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REV	AMENDMENTS	DATE	APP'D
1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541193
Verified S.LEA
Date 28/05/15
AN 1081779
Audited B.GORDON
Date 18/09/15
AN 162562
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884449

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: G:\Design\11732\merrifield - precinct 1 - stage 12\cad\REV
11732EF01.dwg - 11732EF01
Date/Time: Thu Feb 25, 2016 - 2:09pm - Robert Young



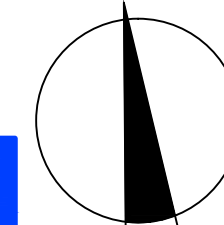
1	AS CONSTRUCTED	25/02/16	TL
0	CONSTRUCTION ISSUE	18/09/15	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 15/05/15
AN 1511016
Designed N.MIRATANA
Date 14/05/15
AN 1541194
Verified S.LEA
Date 28/05/15
AN 1081780
Audited B.GORDON
Date 18/09/15
AN 162563
Approved T.LIAKOPOULOS
Date 18/09/15
AN 884450

AS CONSTRUCTED

- LEGEND
- Ex W EXISTING WATER MAIN
 - Ex G EXISTING GAS MAIN
 - Ex E EXISTING ELECTRICAL CABLE
 - Ex S EXISTING SEWER MAIN & MANHOLE
 - Ex T EXISTING TELECOMM. CABLE AND PIT
 - EXISTING ELEC. POLE & O'HEAD LINES
 - EXISTING STORMWATER DRAIN & PIT
 - EXISTING TREES
 - PREVIOUS STAGE SW DRAIN & PIT
 - PERMANENT SURVEY MARK

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P.O. Box 5075, South Melbourne, Vic 3205
16 Eastern Road South Melbourne
Vic 3205 Australia DX 20524 Emerald Hill
Tel 03) 9699 1400 Fax 03) 9699 5992

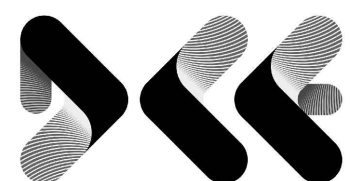


merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 12
EXISTING FEATURES PLAN

Drawing No. 11732EF01 Rev 1
Sheet No. 21 AS CONSTRUCTED
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