

MERRIFIELD DEVELOPMENT

STAGE 9

DONNYBROOK RD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield



CIVIL DRAWINGS

ROAD AND DRAINAGE

DCE REF: 11729

AS CONSTRUCTED

Drawing File: C:\DesignData\11700\11729-MERRIFIELD - Precinct 1 - Stage 9\Acad\VD\11729TD01.dwg - 11729TD01
Date/Time: Fri Nov 20, 2015 - 4:37pm --matthew.coppola--

HUME CITY COUNCIL GENERAL NOTES:

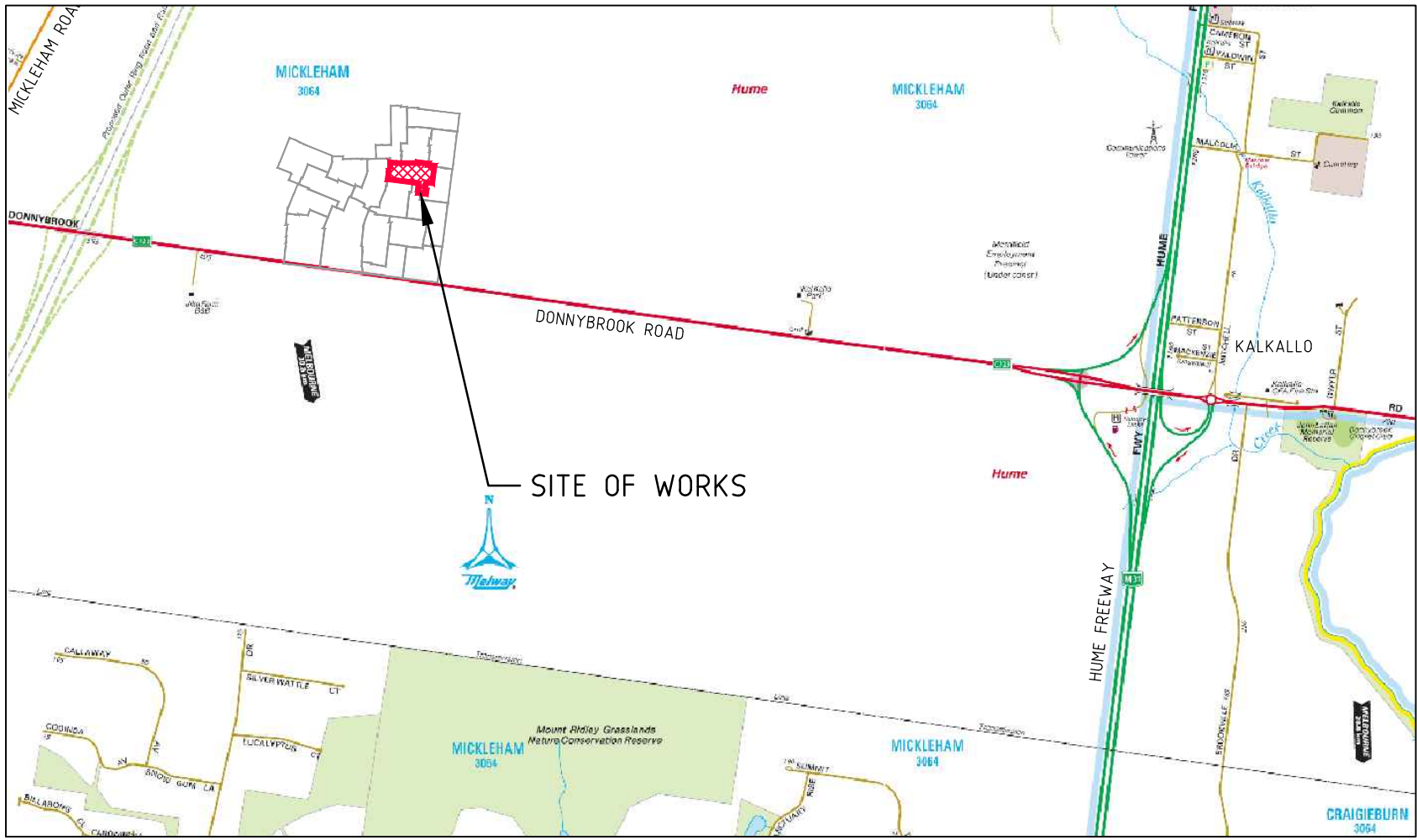
1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS4000 AMENDED GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED HUME CITY COUNCIL SPECIFICATION AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
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 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, THE NEW TEST RESULTS SHALL BE PROVIDED.
4. 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.
5. 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.
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 AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS 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 COORDINATES 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 HUME CITY COUNCIL SPECIFICATIONS.
12. 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.
13. FILLING TO COMPLY WITH AS3798-2007 LEVEL 1 (OR 2) AS SPECIFIED.
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 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.
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 STRUCTURE/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. 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.
21. FOOTPATHS TO BE OFFSET 50mm FROM THE 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 CENTERS, 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. 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.
25. 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.
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 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.
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 AS1289.5.1.1-2003.
32. 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.
33. 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.
34. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
35. 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.
36. 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.
37. 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.
38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND COMPLY WITH THE REQUIREMENTS OF AS1743-2001.
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 SHALL BE BACKFILLED WITH 10mm MINUS F.C.R TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
40. 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.
41. 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 AS2187.2-1993, 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:

1. ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
2. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
3. 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.
4. 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.
5. LIP OF ALL KERB RADII ARE 8.60m UNLESS OTHERWISE SHOWN.
6. 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.
7. 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.
8. 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.
9. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
10. 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.
11. 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.
12. PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH COUNCIL STANDARDS.
13. ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.
14. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
15. ALL EASEMENTS ARE 2.0m OR 3.0m WIDE DRAINAGE AND SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN.
16. CENTRELINES OF ALL SEWERS ARE OFFSET 1.2m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
17. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
18. 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.
19. ALL SIDE ENTRY PITS EXCEPT THOSE AT LOW POINTS ARE TO HAVE FLUTES AS SPECIFIED IN THE COUNCIL STANDARD DRAWINGS.
20. 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.
21. 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.
22. 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.
23. 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
24. ELECTRICITY CONDUITS ARE TO BE LAID WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS :
UNDER ROADS - 0.90m
ELSEWHERE - 0.60m
25. 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	11729TD01	LOCALITY PLAN, INDEX & NOTES
02	11729TD02	TYPICAL SECTIONS & DETAILS
03	11729SP01	STAGING PLAN
04	11729DP01	DETAIL PLAN
05	11729SOP01	SETOUT DETAILS
06-07	11729ID01-02	INTERSECTION DETAILS - SHEETS 1 TO 2
08-09	11729LS01-02	LONGITUDINAL SECTIONS - SHEETS 1 TO 2
10-12	11729XS01-03	CROSS SECTIONS - SHEETS 1 TO 3
13-14	11729OED01-02	OPEN EARTH DRAIN PLAN - SHEETS 1 TO 2
15-17	11729DR01-03	DRAINAGE LONGITUDINAL SECTIONS - SHEETS 1 TO 3
18	11729DR04	DRAINAGE DETAILS
19	11729POS01	PLAN OF SUBDIVISION
20	11729FP01	FILL PLAN
21	11729FP01	EXISTING FEATURES PLAN

				Drawn K.PAGE Date 10/12/14 AN 1511000 Designed N.MIRATANA Date 5/12/14 AN 1541250 Verified B.GORDON Date 17/12/14 AN 162038 Audited R.MASON Date 09/06/15 AN 702900 Approved T.LIAKOPPOULOS Date 02/07/15 AN 884255
1	AS CONSTRUCTED	20/11/15	TL	
0	CONSTRUCTION ISSUE	02/07/15	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.

AS CONSTRUCTED



Scale @ A1/A3 AS SHOWN

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 9
LOCALITY PLAN, INDEX & NOTES

Drawing No. 11729TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED
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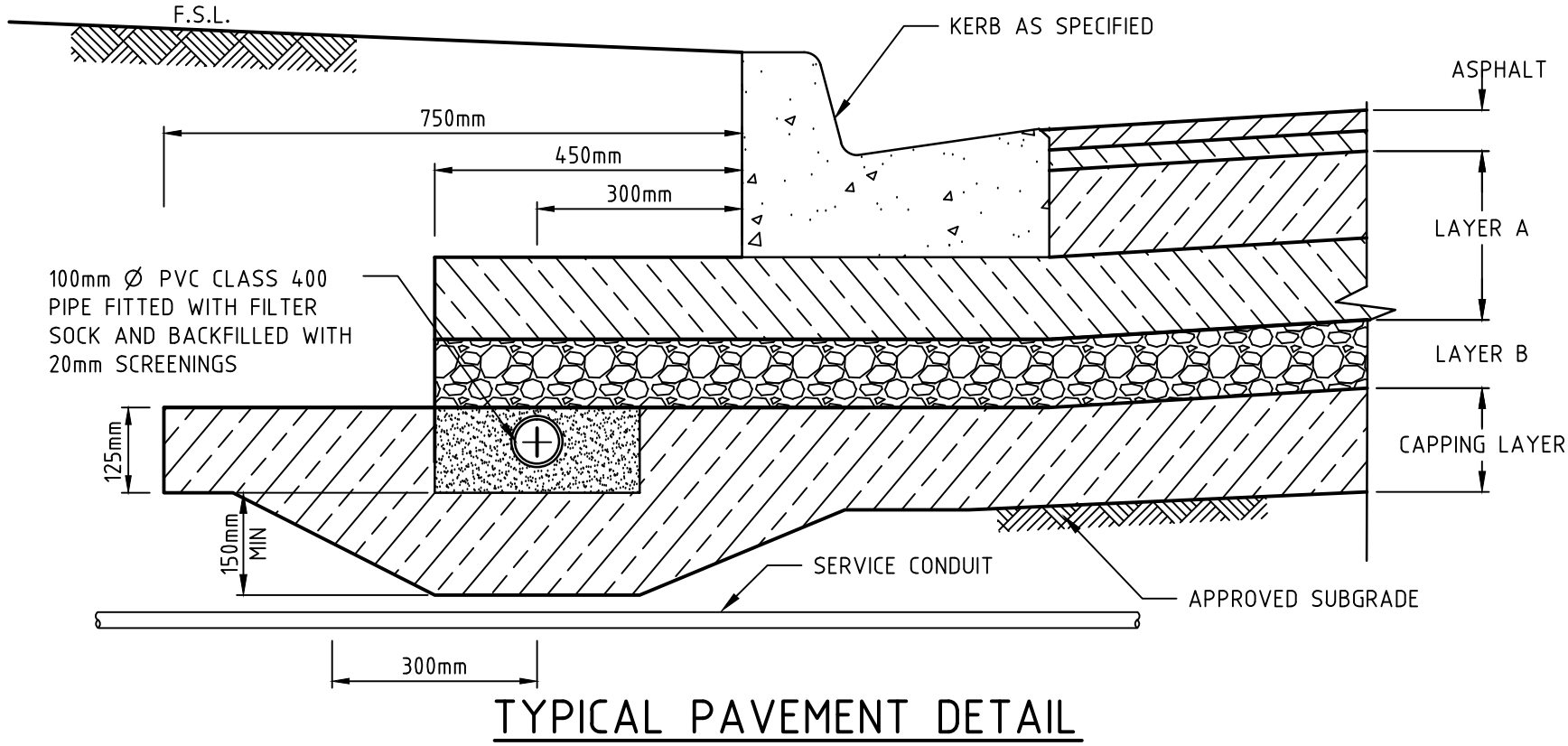
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PAVEMENT DETAILS

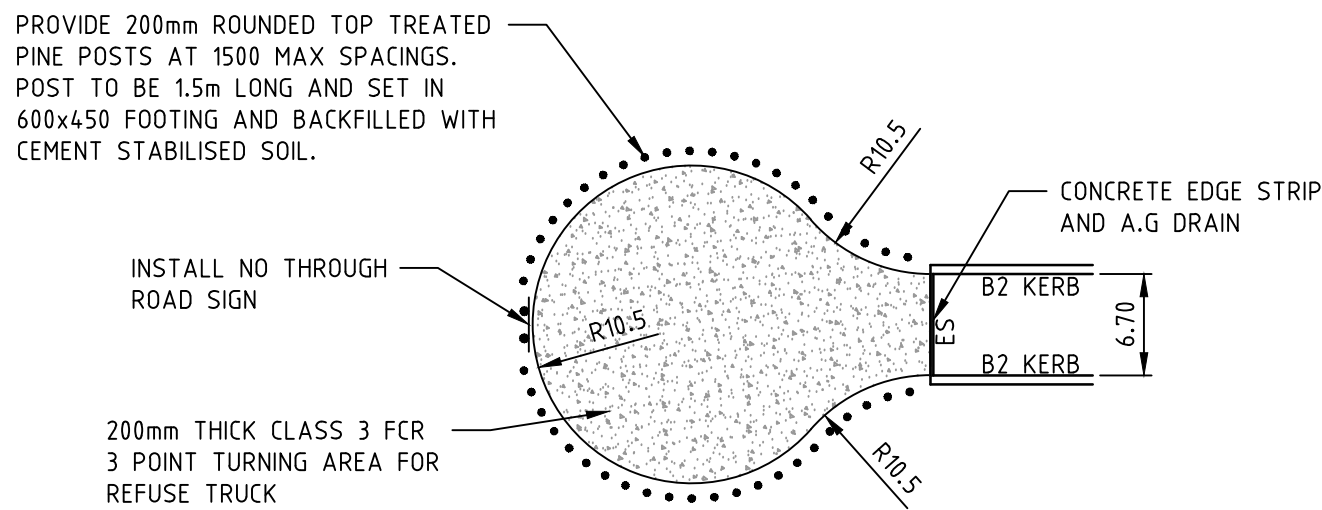
	ACCESS STREETS ALL ROADS
ASPHALT	WEARING COURSE 30mm SIZE 10mm TYPE N ASPHALT BASE COURSE 30mm SIZE 10 TYPE N ASPHALT INTERLAYER 10mm SAMI TREATMENT PRIME OR PRIMERSEAL
LAYER A	BASE COURSE 130mm SIZE 20mm CLASS 2 CRUSHED ROCK UPPER SUBBASE 120mm SIZE 20 CLASS 3 CRUSHED ROCK
LAYER B	LOWER SUBBASE 100mm 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



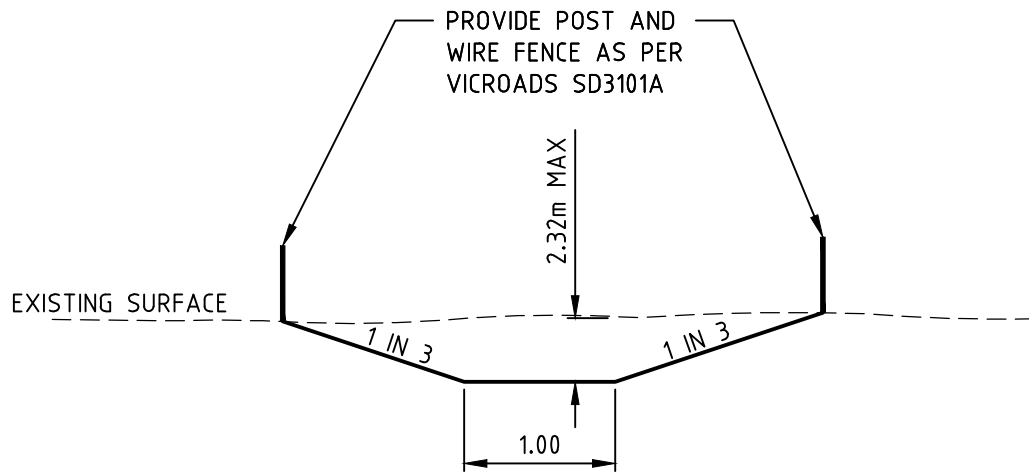
TYPICAL PAVEMENT DETAIL

ACCESS STREETS
SCALE 1:10



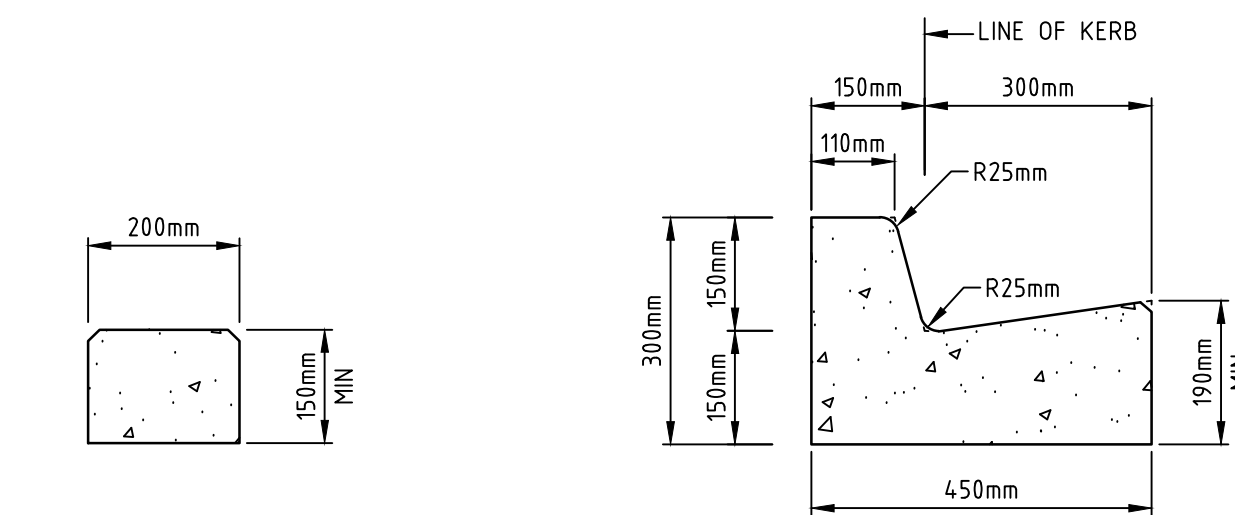
TEMPORARY TURNING AREA DETAIL

BEDFORD WAY
SCALE 1:500



TYPICAL SECTIONS
TEMPORARY OPEN EARTH DRAIN

SCALE 1:50

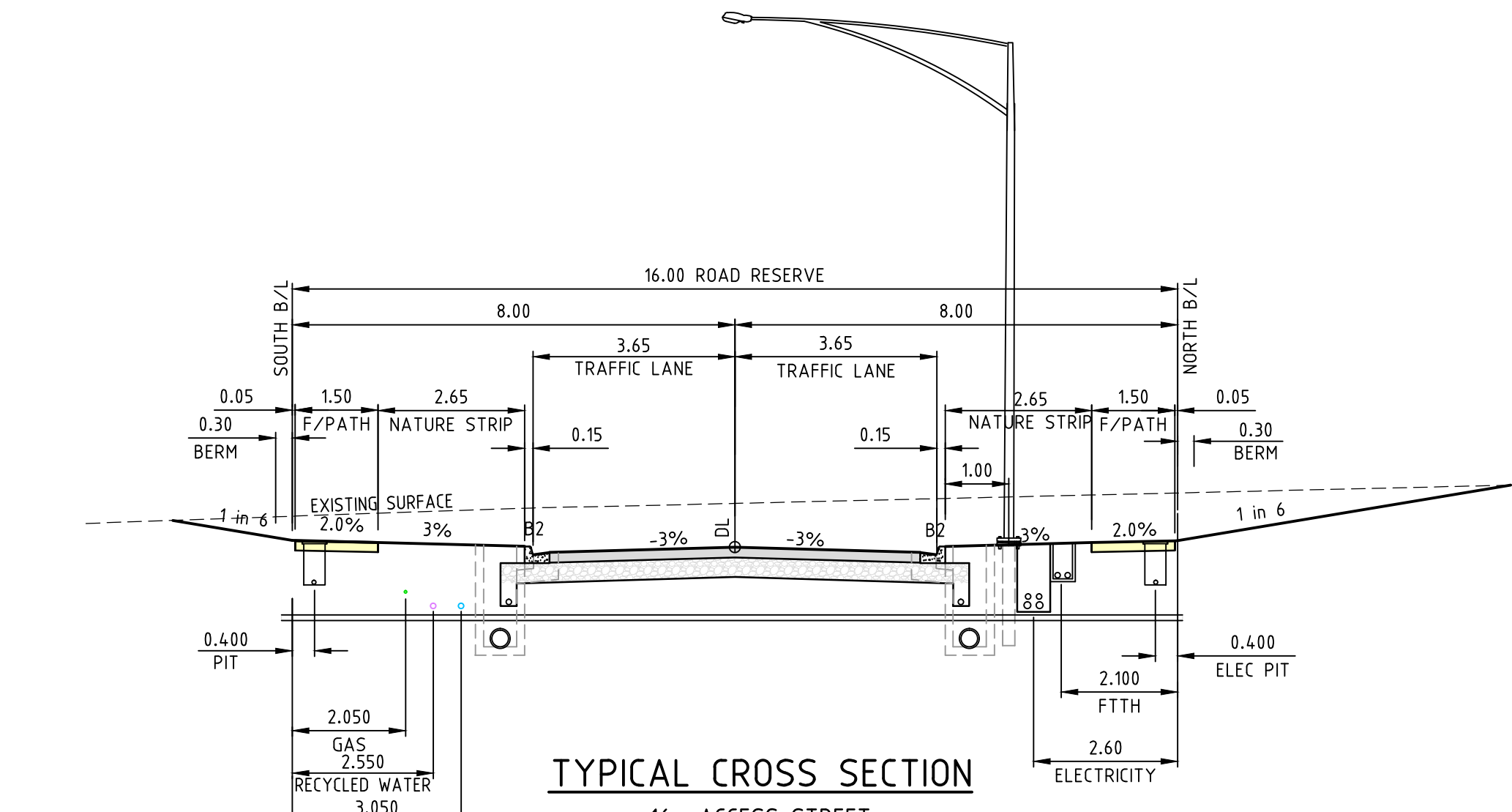


EDGE STRIP

SCALE 1:10

B2 KERB & CHANNEL

SCALE 1:10

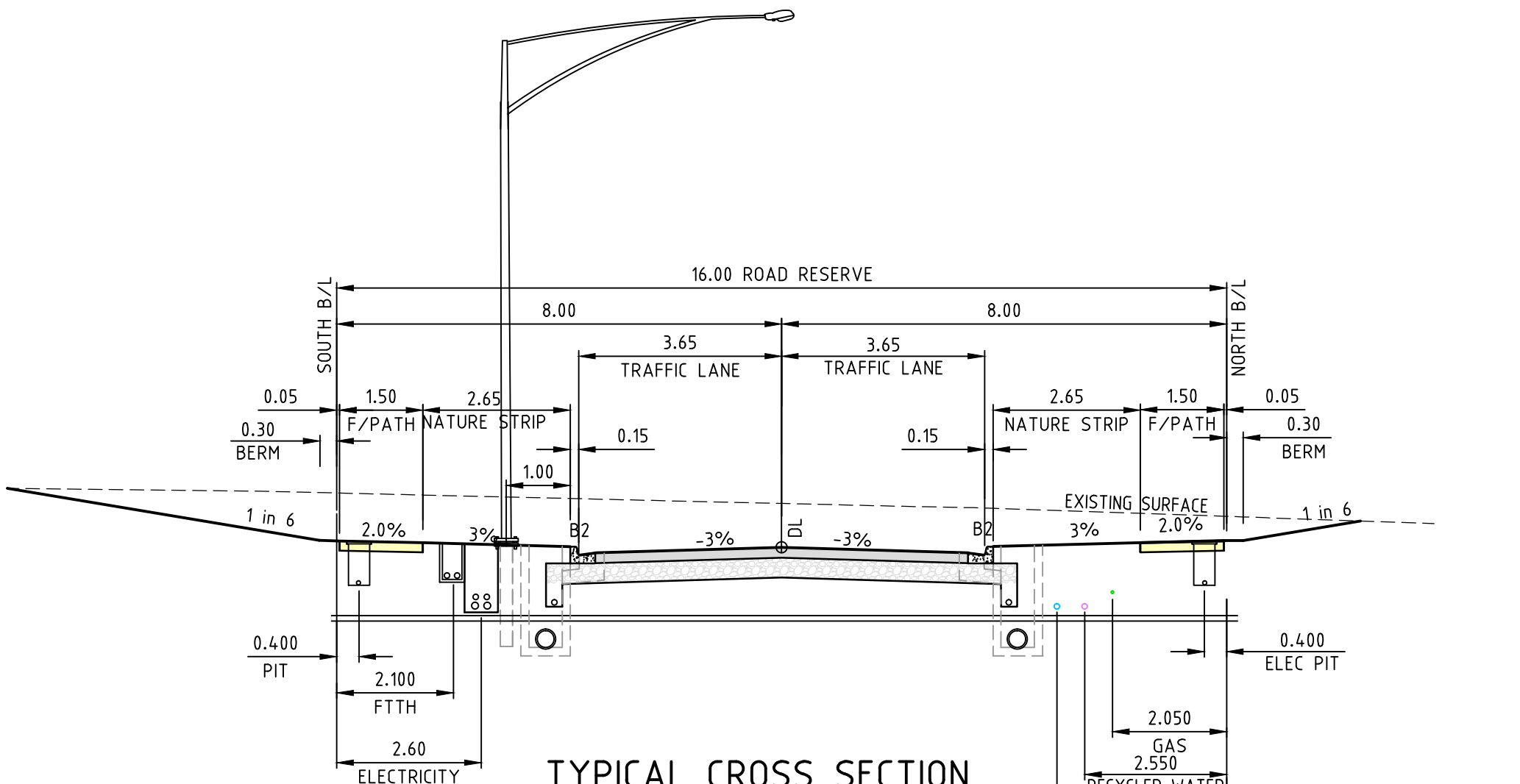


TYPICAL CROSS SECTION

16m ACCESS STREET

SCALE 1:100

DEGRAVES STREET

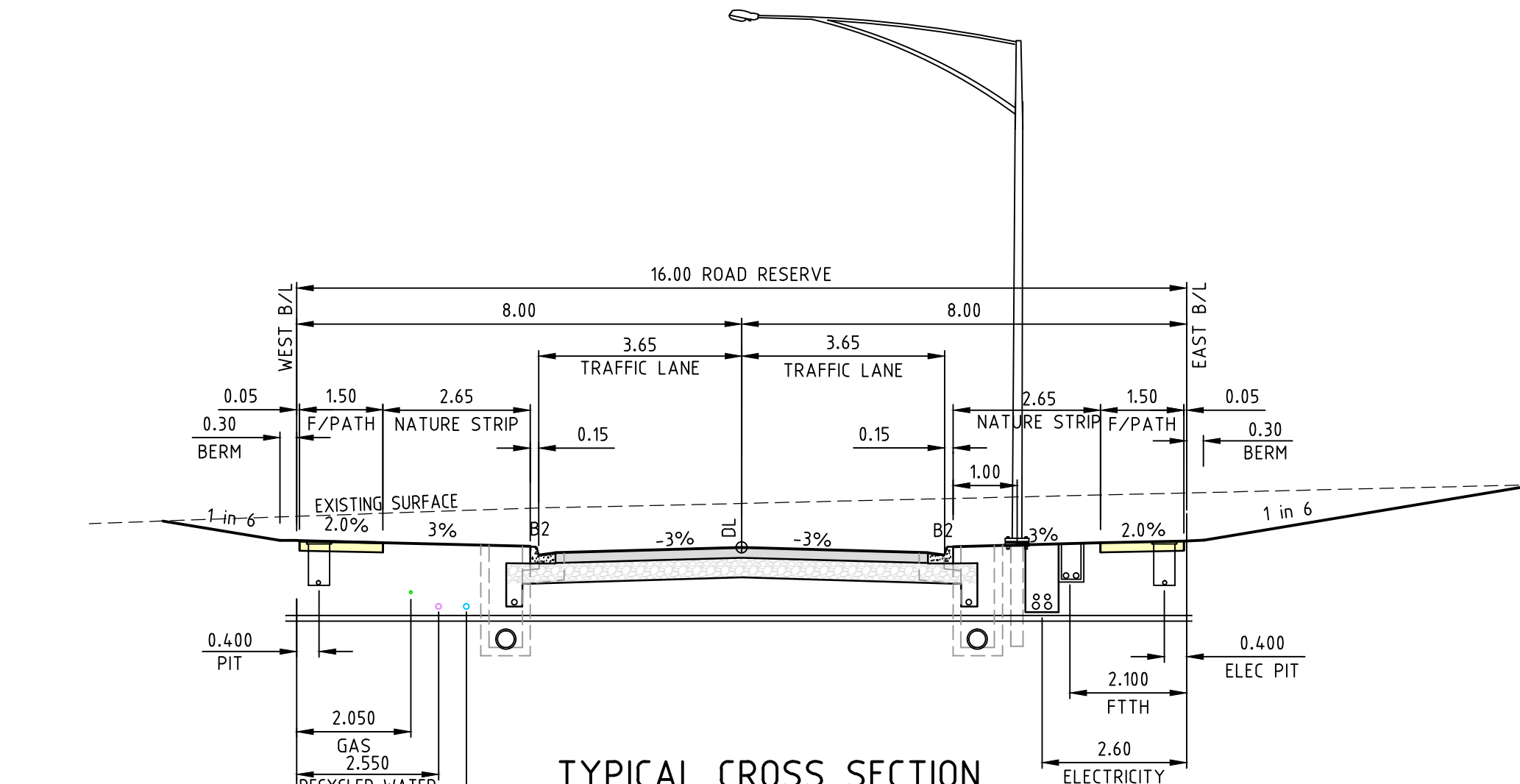


TYPICAL CROSS SECTION

16m ACCESS STREET

SCALE 1:100

HIGHFIELD DRIVE



TYPICAL CROSS SECTION

16m ACCESS STREET

SCALE 1:100

BEDFORD WAY

1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date: 10/12/14
AN 1511000
Designed N.MIRATANA
Date: 5/12/14
AN 1541251
Verified B.GORDON
Date: 17/12/14
AN 162039
Audited R.MASON
Date: 09/06/15
AN 702901
Approved T.LIAKOPOULOS
Date: 02/07/15
AN 884256

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.

AS CONSTRUCTED

merrifield
MAB gpc
Coords: MGA
Levels: AHD

Scale @ A1/A3 AS SHOWN

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
TYPICAL SECTIONS & DETAILS

Drawing No. 11729TD02 Rev 1
Sheet No. 02 AS CONSTRUCTED

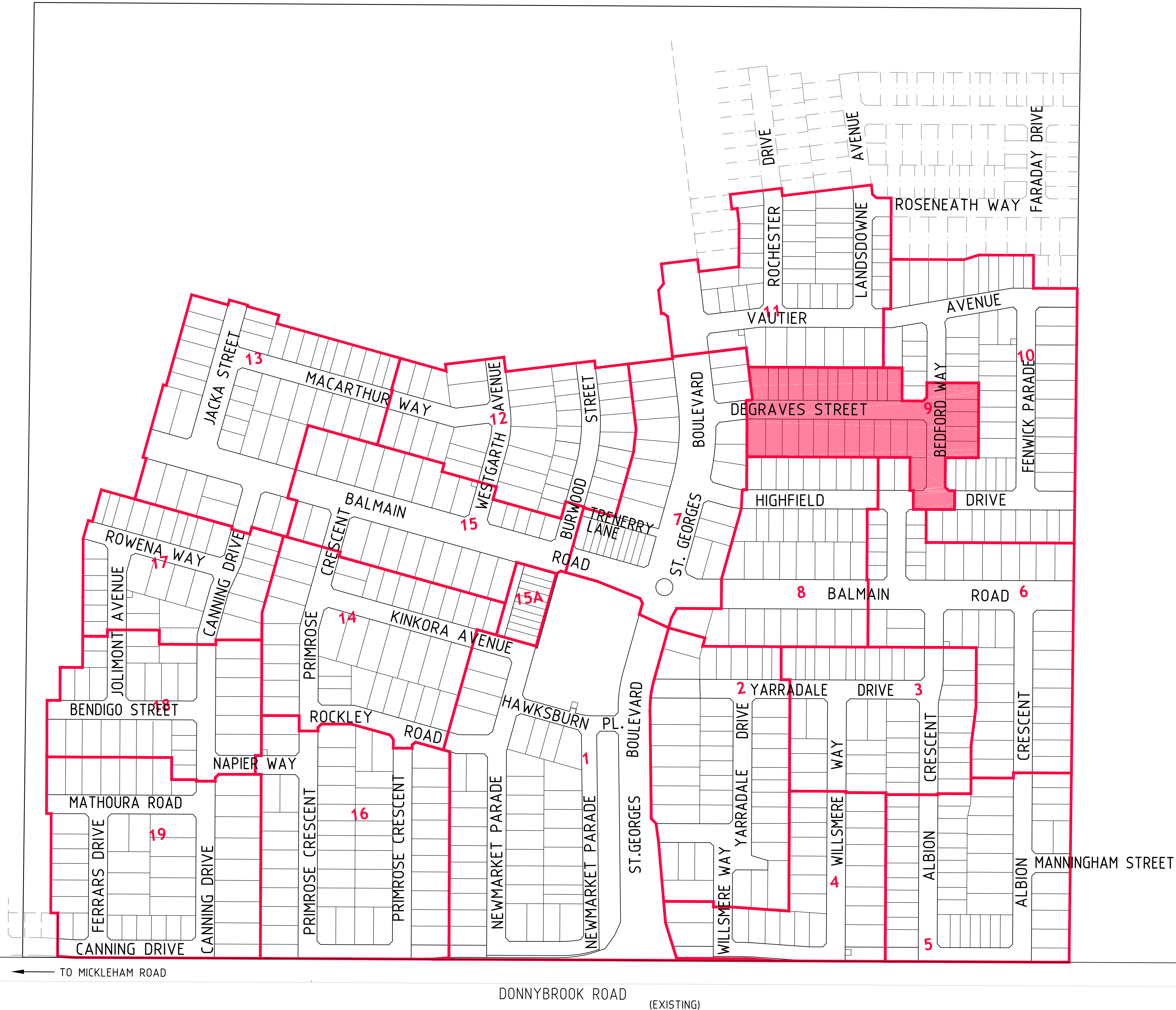
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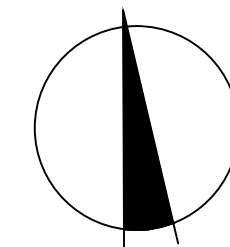


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Drawn K.PAGE
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541252
Verified B.GORDON
Date 17/12/14
AN 162040
Audited R.MASON
Date 09/06/15
AN 702902
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884257

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merrifield
MAB gpc

Coords: MGA
Levels: AHD

Hor 1:2000 0m 20m 40m 80m 120m

Scale @ A1/A3 1:2000/1:4000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
STAGING PLAN

Drawing No. 11729SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED

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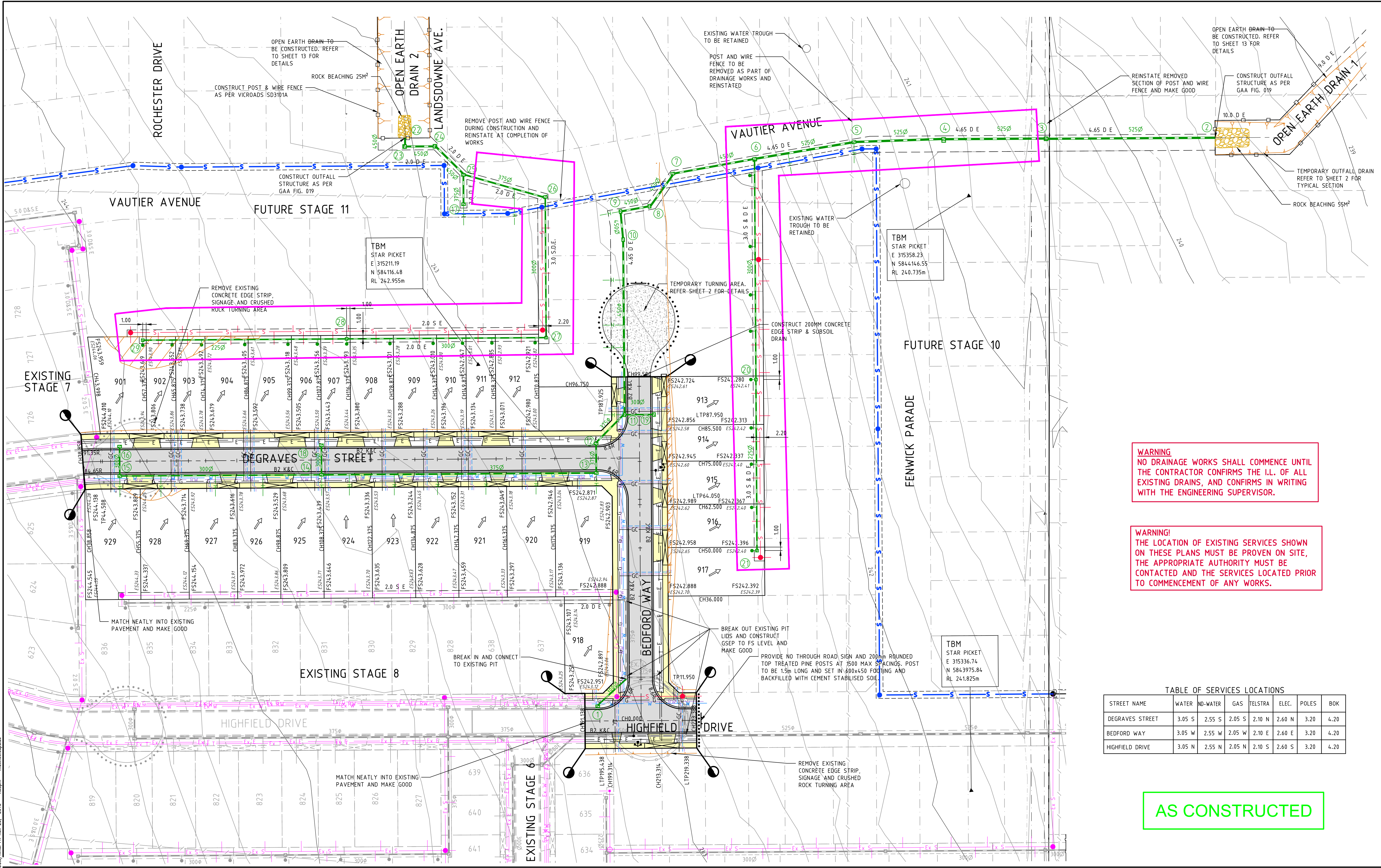
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Date/Time: Fri Nov 20, 2015 - 4:38pm --matthew.copello--



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	TELSTRA	ELEC.	POLES	BOK
DEGRAVES STREET	3.05 S	2.55 S	2.05 S	2.10 N	2.60 N	3.20	4.20
BEDFORD WAY	3.05 W	2.55 W	2.05 W	2.10 E	2.60 E	3.20	4.20
HIGHFIELD DRIVE	3.05 N	2.55 N	2.05 N	2.10 S	2.60 S	3.20	4.20

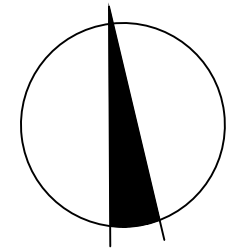
AS CONSTRUCTED

1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541253
Verified B.GORDON
Date 17/12/14
AN 162041
Audited R.MASON
Date 09/06/15
AN 702903
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884258

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.

- 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
 - Ex V — EXISTING ELEC. POLE & O'HEAD LINES
 - Ex P — EXISTING STORMWATER DRAIN & PIT
 - Ex C — CONSTRUCTED PRE DEVELOPMENT
 - Ex R — EXISTING TREES TO BE REMOVED
 - Ex L — EXISTING SURFACE LEVEL
 - Ex F — FINISHED SURFACE LEVEL
 - Ex D — OPEN EARTH DRAIN (O.E.D.)
 - 300Ø — 300Ø BRANCH SEWER MAIN
 - S — SEWER MAIN AND MANHOLE
 - S — STORMWATER DRAIN & PIT
 - S — SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
 - P — PROPERTY INLETS
 - H — HOUSE DRAIN
 - GC — GAS CONDUIT
 - W — WATER CONDUIT
 - W — RECYCLED WATER CONDUIT
 - TC — TELECOMM. CONDUIT
 - PERM — PERMANENT SURVEY MARK
 - W — WATER
 - RW — RECYCLED WATER
 - T — TELECOMMUNICATIONS
 - E — ELECTRICITY
 - G — GAS
 - S — STREET NAME SIGN
 - R — REGRADE LOT AT MIN 1 IN 150
 - A — ASPHALT PAVEMENT
 - C — CONC FOOTPATH / DRIVEWAY
 - L — LIMIT OF WORKS
 - F — FILLING OVER 200mm
 - S — 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 9
DETAIL PLAN

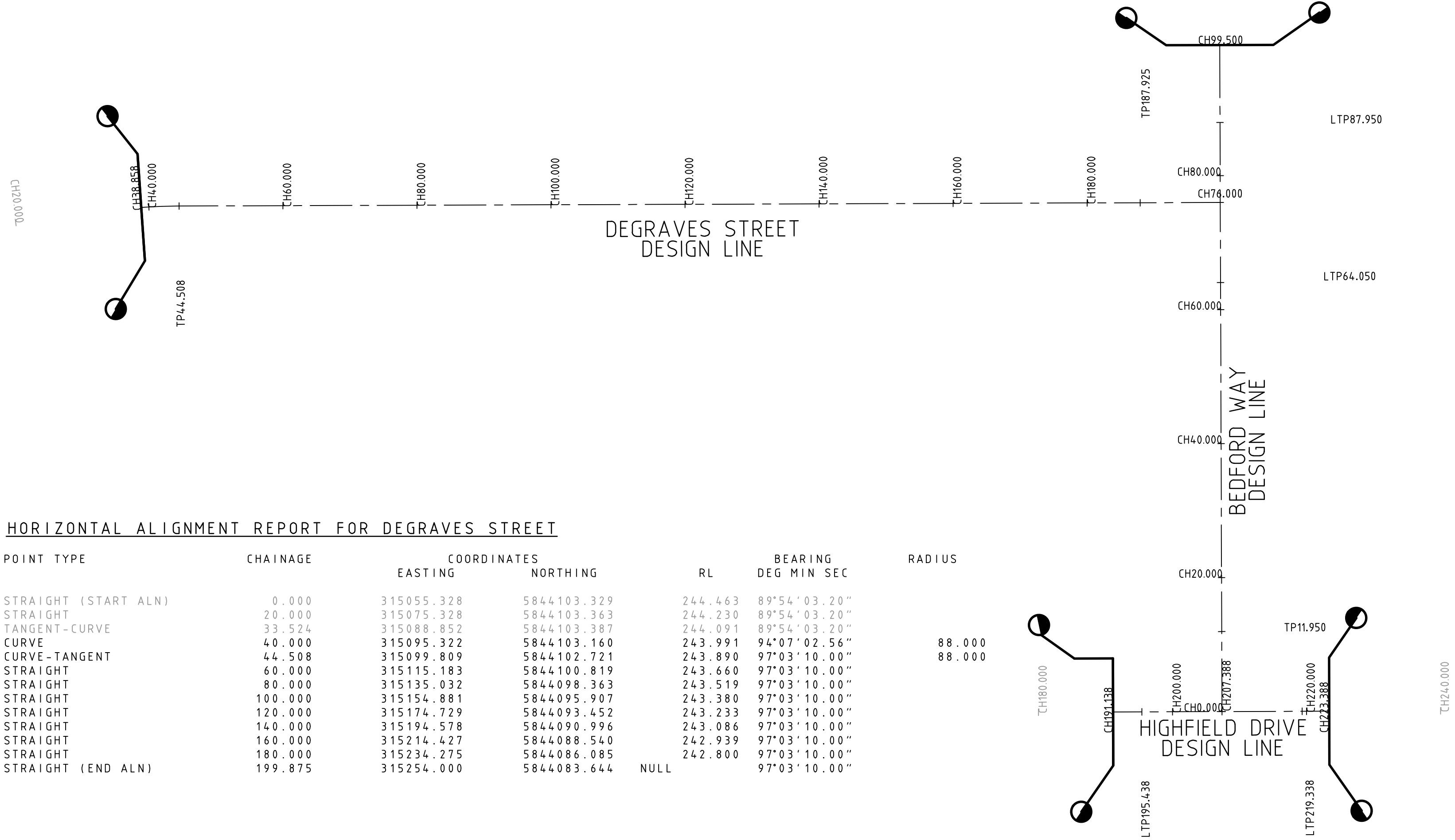
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Sheet No. 04 AS CONSTRUCTED
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Drawing File: G:\Designdata\11700\11729-MERRIFIELD - Prelim 1 - Stage 9\Acad\10\11729SOP01.dwg - 11729SOP01
Date/Time: Fri Nov 20, 2015 - 4:38pm --matthew.coppola--



HORIZONTAL ALIGNMENT REPORT FOR DEGRAEVES STREET

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
STRAIGHT (START ALN)	0.000	315055.328	5844103.329	244.463	89°54'03.20"	
STRAIGHT	20.000	315075.328	5844103.363	244.230	89°54'03.20"	
TANGENT-CURVE	33.524	315088.852	5844103.387	244.091	89°54'03.20"	
CURVE	40.000	315095.322	5844103.160	243.991	94°07'02.56"	88.000
CURVE-TANGENT	44.508	315099.809	5844102.721	243.890	97°03'10.00"	88.000
STRAIGHT	60.000	315115.183	5844100.819	243.660	97°03'10.00"	
STRAIGHT	80.000	315135.032	5844098.363	243.519	97°03'10.00"	
STRAIGHT	100.000	315154.881	5844095.907	243.380	97°03'10.00"	
STRAIGHT	120.000	315174.729	5844093.452	243.233	97°03'10.00"	
STRAIGHT	140.000	315194.578	5844090.996	243.086	97°03'10.00"	
STRAIGHT	160.000	315214.427	5844088.540	242.939	97°03'10.00"	
STRAIGHT	180.000	315234.275	5844086.085	242.800	97°03'10.00"	
STRAIGHT (END ALN)	199.875	315254.000	5844083.644	NULL	97°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR BEDFORD WAY

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
STRAIGHT (START ALN)	0.000	315244.668	5844008.219	242.720	7°03'10.00"	
STRAIGHT	20.000	315247.124	5844028.068	242.687	7°03'10.00"	
STRAIGHT	40.000	315249.580	5844047.917	242.787	7°03'10.00"	
STRAIGHT	60.000	315252.035	5844067.765	242.868	7°03'10.00"	
STRAIGHT	80.000	315254.491	5844087.614	242.787	7°03'10.00"	
STRAIGHT	100.000	315256.947	5844107.463	242.599	7°03'10.00"	
STRAIGHT	120.000	315259.402	5844127.311	242.410	7°03'10.00"	
TANGENT-CURVE	134.991	315261.243	5844142.189	242.269	7°03'10.00"	
CURVE	140.000	315261.733	5844147.173	242.237	4°10'59.14"	-100.000
CURVE	146.667	315261.998	5844153.834	242.204	0°21'48.16"	-100.000
CURVE-TANGENT	152.358	315261.872	5844159.522	242.175	357°06'09.86"	-100.000
STRAIGHT	160.000	315261.486	5844167.155	242.255	357°06'09.86"	
STRAIGHT (END ALN)	160.420	315261.464	5844167.574	242.268	357°06'09.86"	

HORIZONTAL ALIGNMENT REPORT FOR HIGHFIELD DRIVE

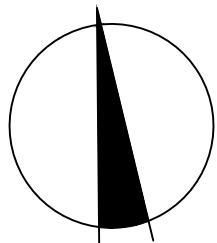
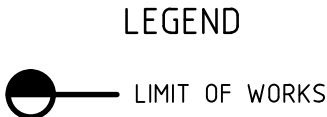
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		EASTING	NORTHING			
STRAIGHT	120.000	315157.941	5844018.949	243.531	97°03'10.00"	
STRAIGHT	140.000	315177.790	5844016.494	243.369	97°03'10.00"	
STRAIGHT	160.000	315197.639	5844014.038	243.206	97°03'10.00"	
STRAIGHT	180.000	315217.487	5844011.582	243.026	97°03'10.00"	
STRAIGHT	200.000	315237.336	5844009.127	242.803	97°03'10.00"	
STRAIGHT	220.000	315257.185	5844006.671	242.564	97°03'10.00"	
STRAIGHT	240.000	315277.033	5844004.215	242.306	97°03'10.00"	
STRAIGHT	260.000	315296.882	5844001.760	242.045	97°03'10.00"	
STRAIGHT	280.000	315316.731	5843999.304	241.784	97°03'10.00"	
STRAIGHT	300.000	315336.579	5843996.848	241.523	97°03'10.00"	

AS CONSTRUCTED

1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

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Drawn K.PAGE
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541254
Verified B.GORDON
Date 17/12/14
AN 162043
Audited R.MASON
Date 09/06/15
AN 702904
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884259



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 9
SETOUT DETAILS

Drawing No. 11729SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED
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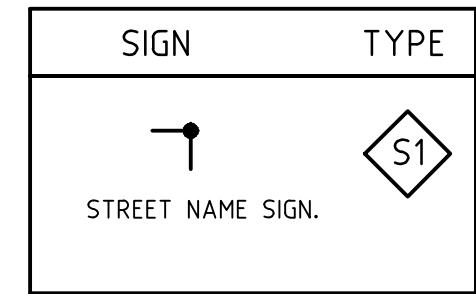
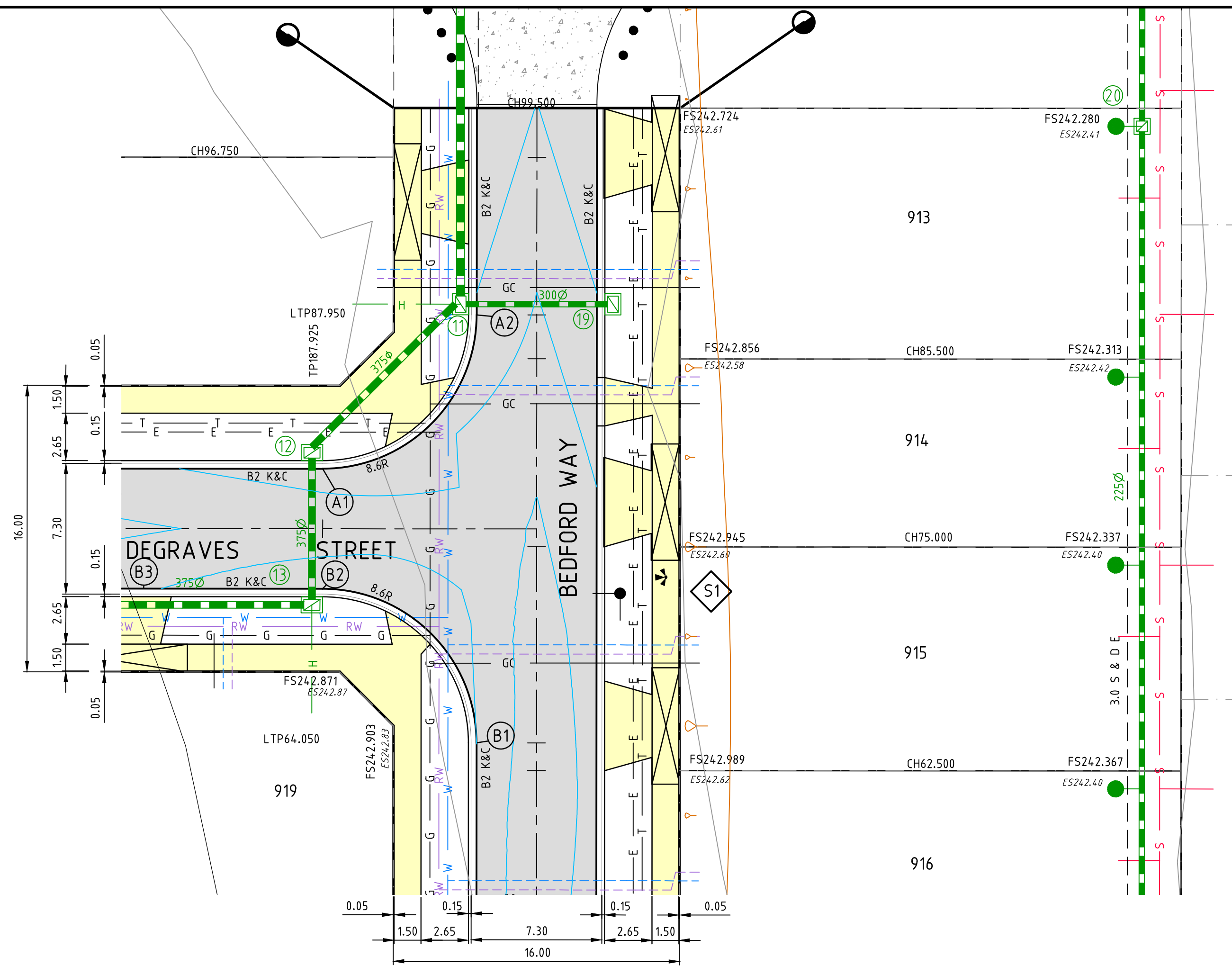


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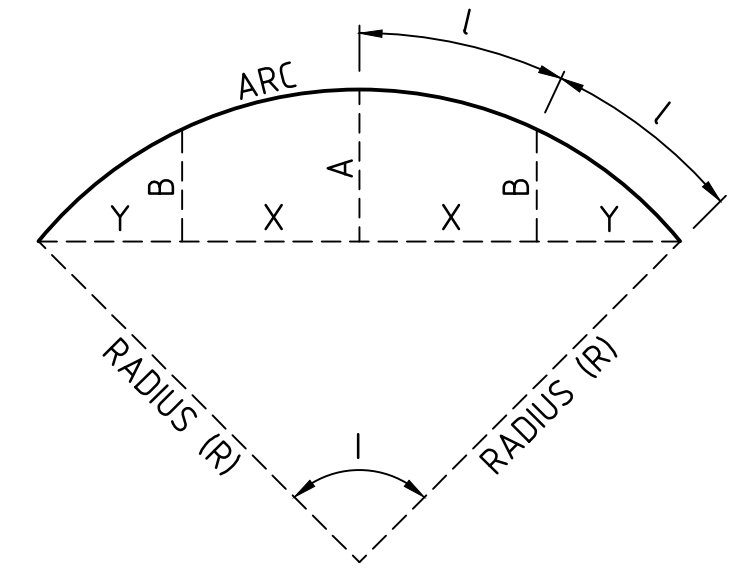
WARNING!
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SIGNAGE LEGEND

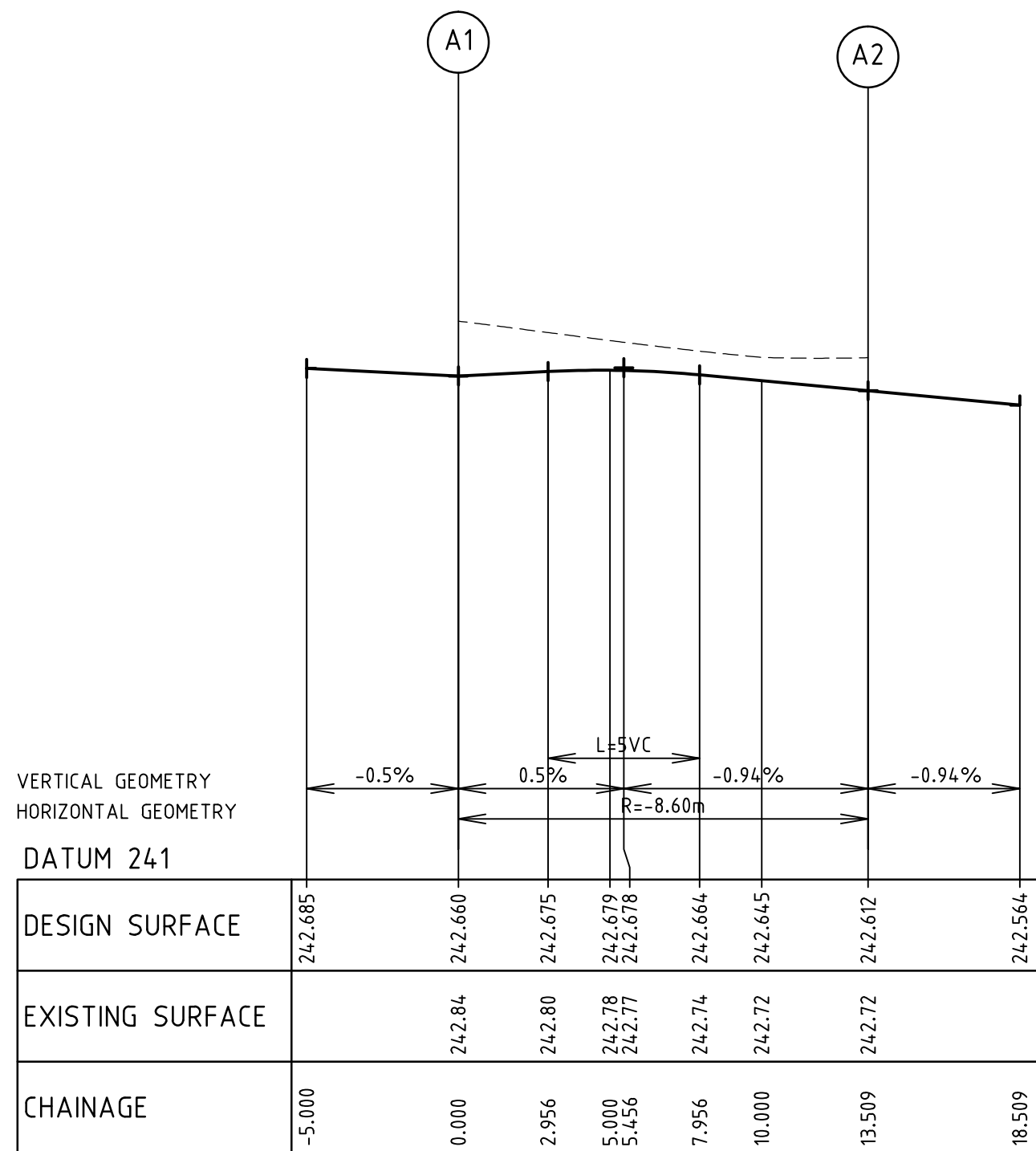
N.T.S.

ALL SIGNS IN
ACCORDANCE
WITH AS1742



LIP SETOUT DETAIL

N.T.S.



LIP PROFILE A

ALIGNMENT A

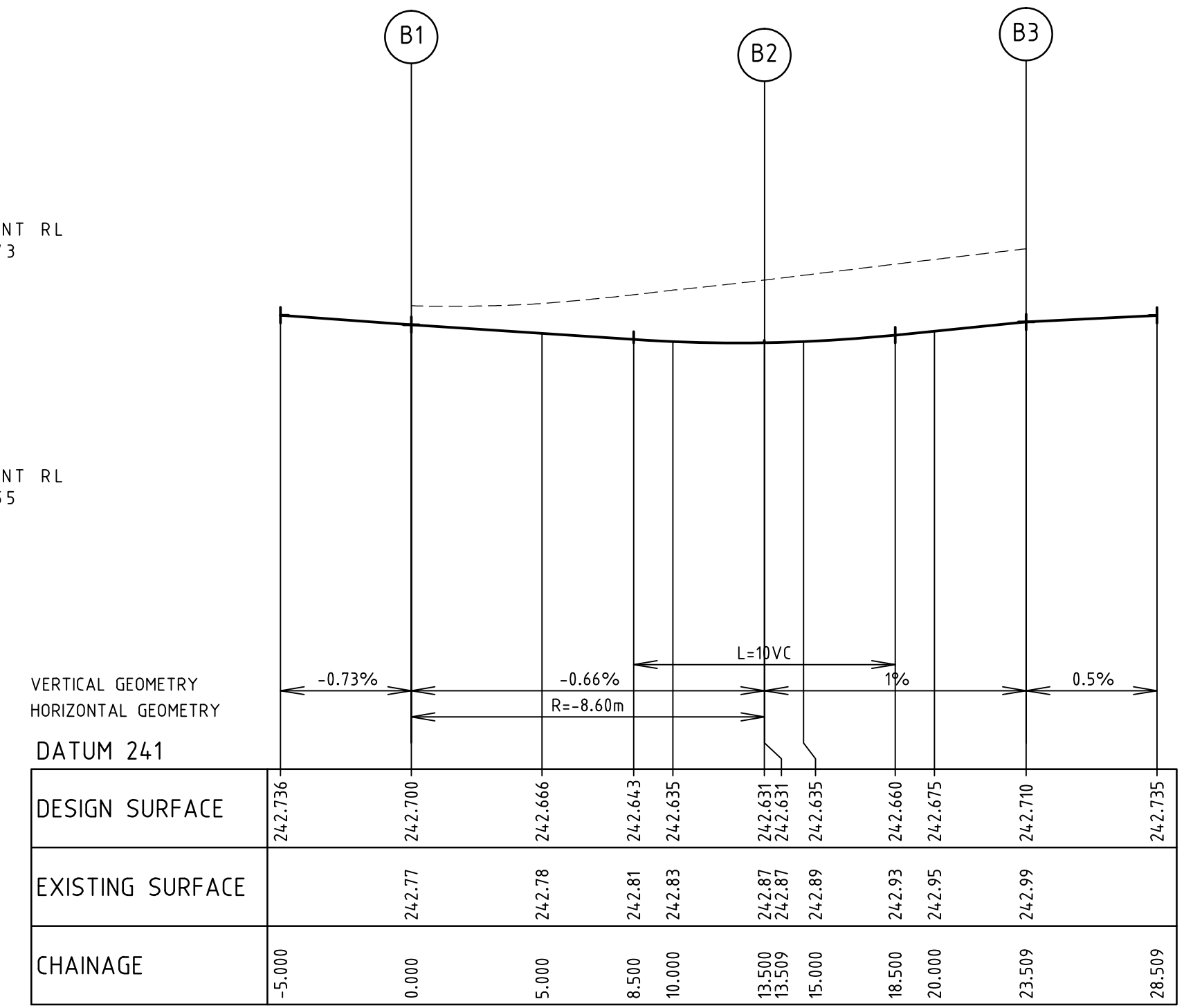
POINT NO	EASTING	NORTHING	RL
A1	315242.552	5844088.436	242.660
A2	315252.143	5844095.915	242.612

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.673

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	315249.208	5844072.196	242.700
B2	315241.729	5844081.787	242.631
B3	315231.805	5844083.015	242.710

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	242.655



LIP PROFILE B

AS CONSTRUCTED

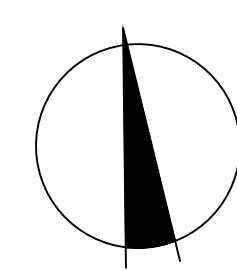
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0	CONSTRUCTION ISSUE	02/07/15	TL

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Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541255
Verified B.GORDON
Date 17/12/14
AN 162044
Audited R.MASON
Date 09/06/15
AN 702905
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884260

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
Ex V EXISTING ELEC. POLE & O'HEAD LINES
Ex P EXISTING STORMWATER DRAIN & PIT
CONSTRUCTED PRE DEVELOPMENT
EXISTING TREES TO BE REMOVED
FINISHED SURFACE LEVEL
OPEN EARTH DRAIN (O.E.D.)

LEGEND
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

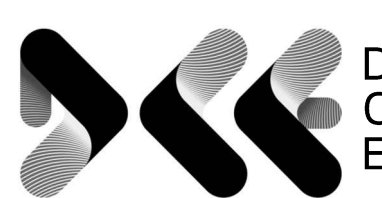
W WATER
RW RECYCLED WATER
T TELECOMMUNICATIONS
E ELECTRICITY
G GAS
STREET NAME SIGN
REGRADE LOT AT MIN 1 IN 150
ASPHALT PAVEMENT
CONC FOOTPATH / DRIVEWAY
LIMIT OF WORKS
FILLING OVER 300mm
FINISHED SURFACE CONTOUR



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 9
INTERSECTION DETAILS
SHEET 1 OF 2
Drawing No. 11729ID01 Rev 1
Sheet No. 06 AS CONSTRUCTED
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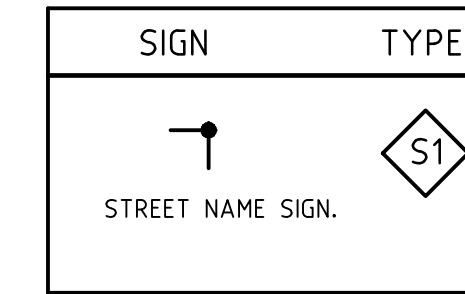
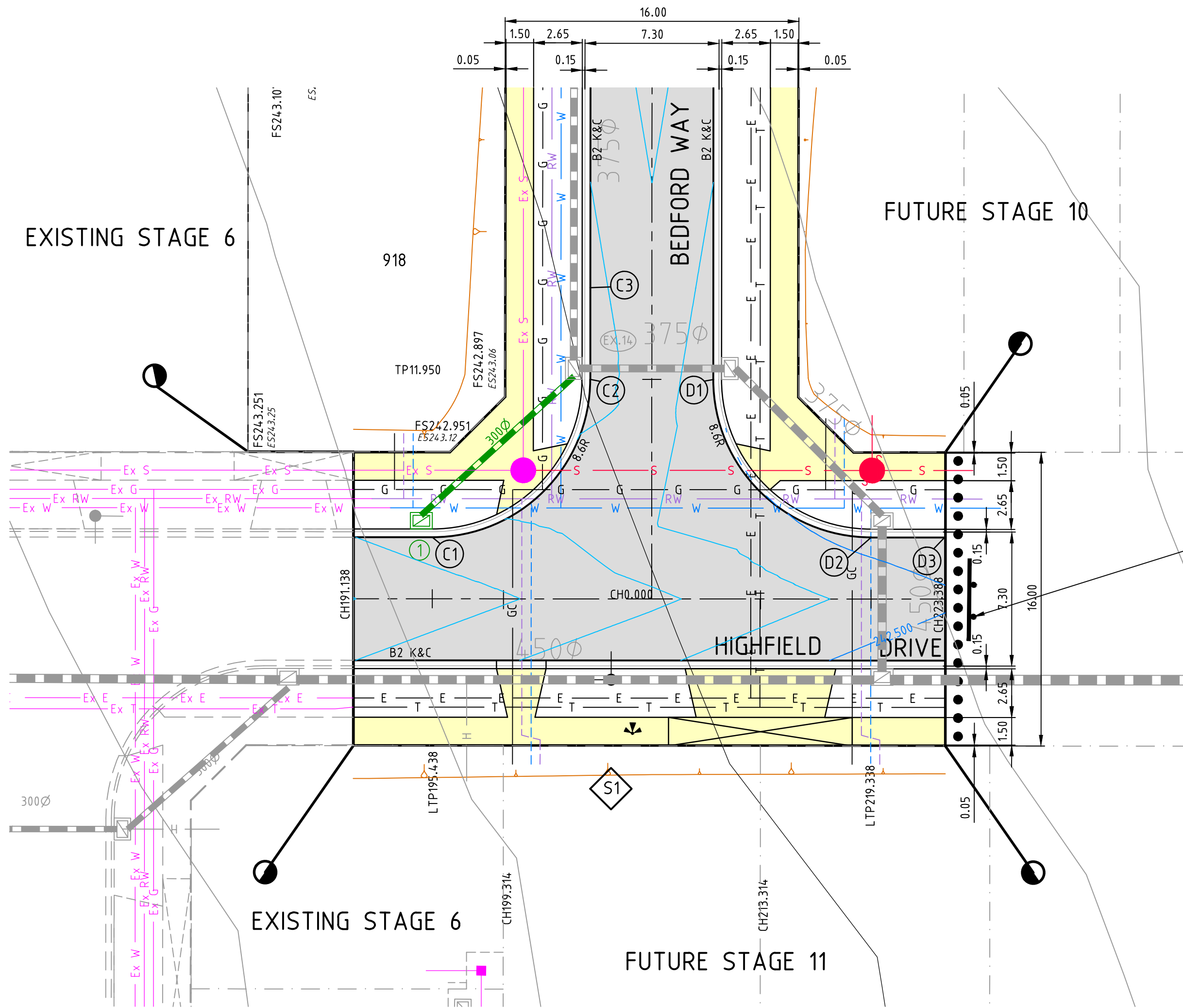
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

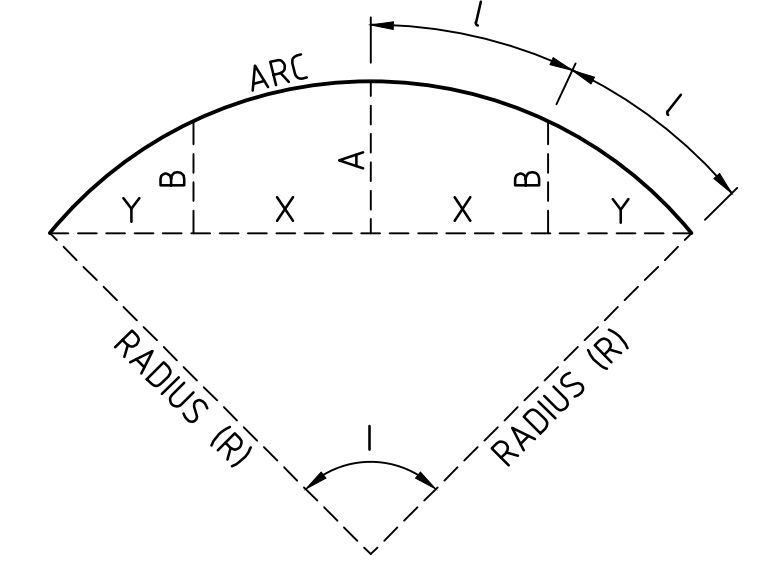
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Date/Time: Fri Nov 20, 2015 - 4:38pm --matthew.coppola--

WARNING!
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SIGNAGE LEGEND

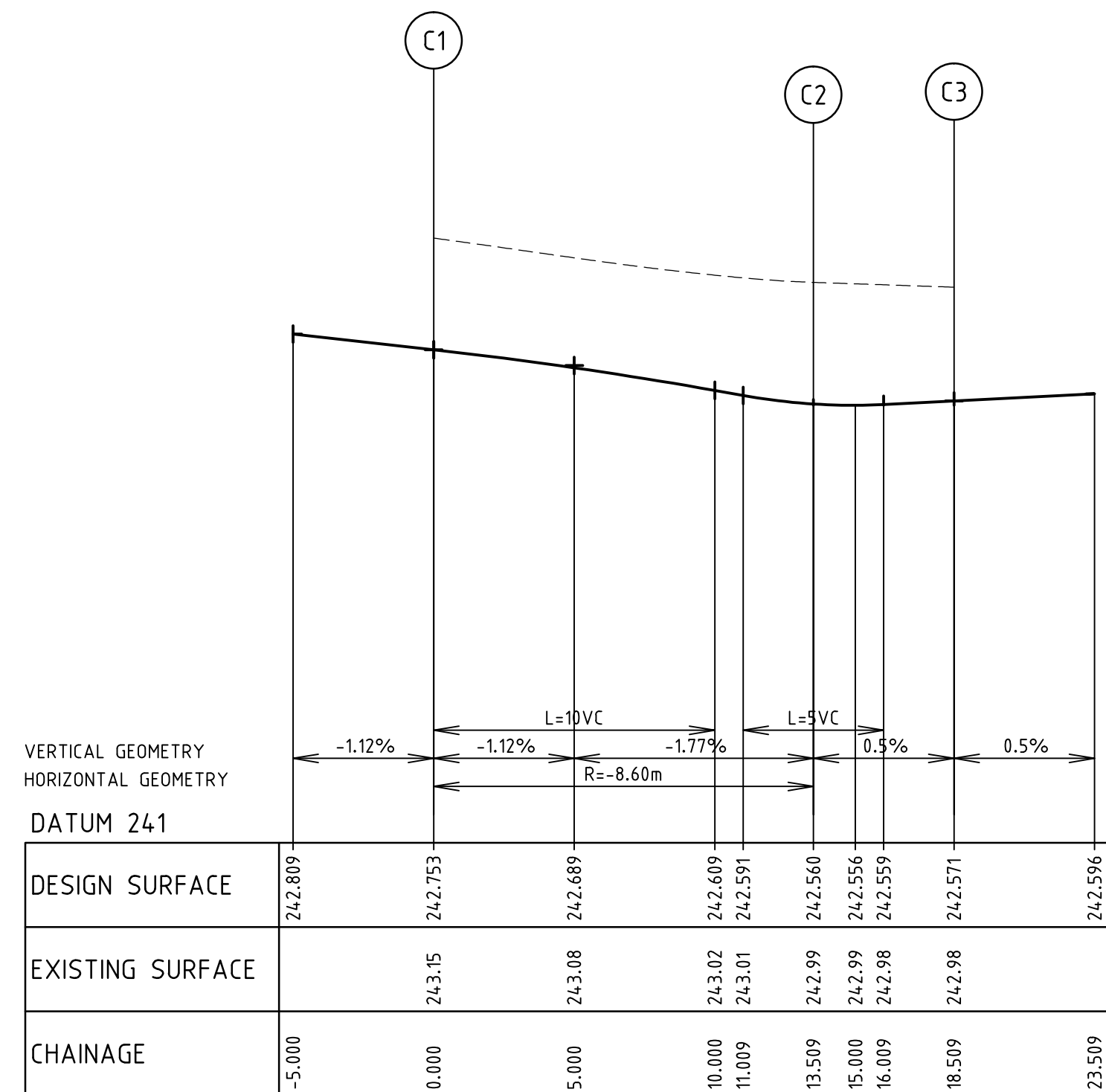
ALL SIGNS IN ACCORDANCE WITH AS1742



LIP SETOUT DETAIL

N.T.S.

PROVIDE NO THROUGH ROAD SIGN AND 200mm ROUNDED TOP TREATED PINE POSTS AT 1500 MAX SPACINGS. POST TO BE 1.5m LONG AND SET IN 600x450 FOOTING AND BACKFILLED WITH CEMENT STABILISED SOIL.



LIP PROFILE C

ALIGNMENT C

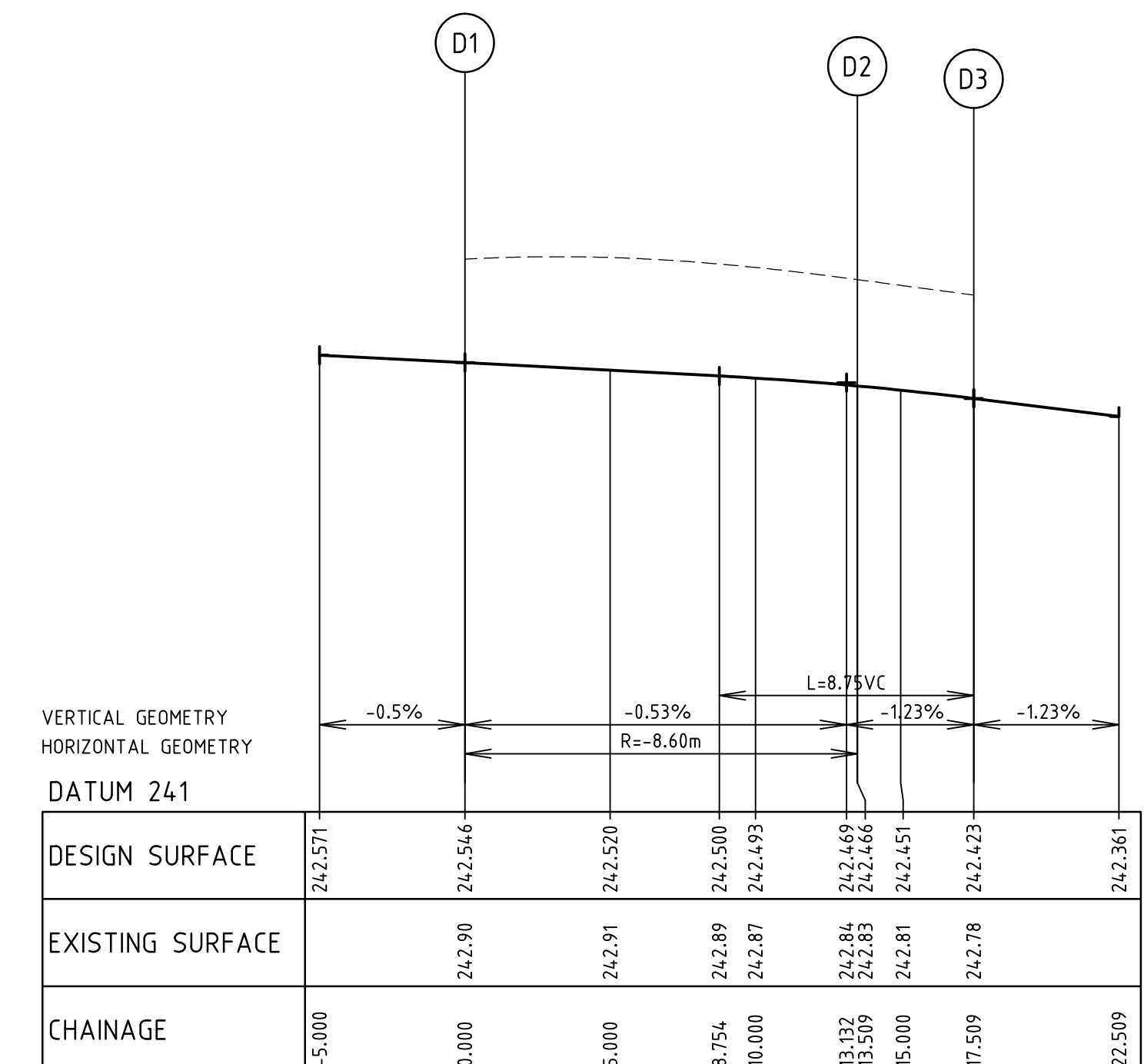
POINT NO	EASTING	NORTHING	RL
C1	315233.220	5844013.011	242.753
C2	315242.811	5844020.490	242.560
C3	315243.425	5844025.452	242.571

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.663

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	315249.460	5844019.668	242.546
D2	315256.939	5844010.077	242.466
D3	315260.909	5844009.586	242.423

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.510



LIP PROFILE D

AS CONSTRUCTED

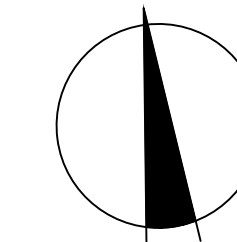
REV	AMENDMENTS	DATE	APP'D.
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0	CONSTRUCTION ISSUE	02/07/15	TL

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Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541256
Verified B.GORDON
Date 17/12/14
AN 162045
Audited R.MASON
Date 09/06/15
AN 702906
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884261

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
Ex P EXISTING ELEC. POLE & O'HEAD LINES
Ex V EXISTING STORMWATER DRAIN & PIT
Ex C CONSTRUCTED PRE DEVELOPMENT
Ex F EXISTING TREES TO BE REMOVED
Ex L FINISHED SURFACE LEVEL
Ex O OPEN EARTH DRAIN (O.E.D.)

LEGEND
3000mm 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 TELECOMMUNICATIONS
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



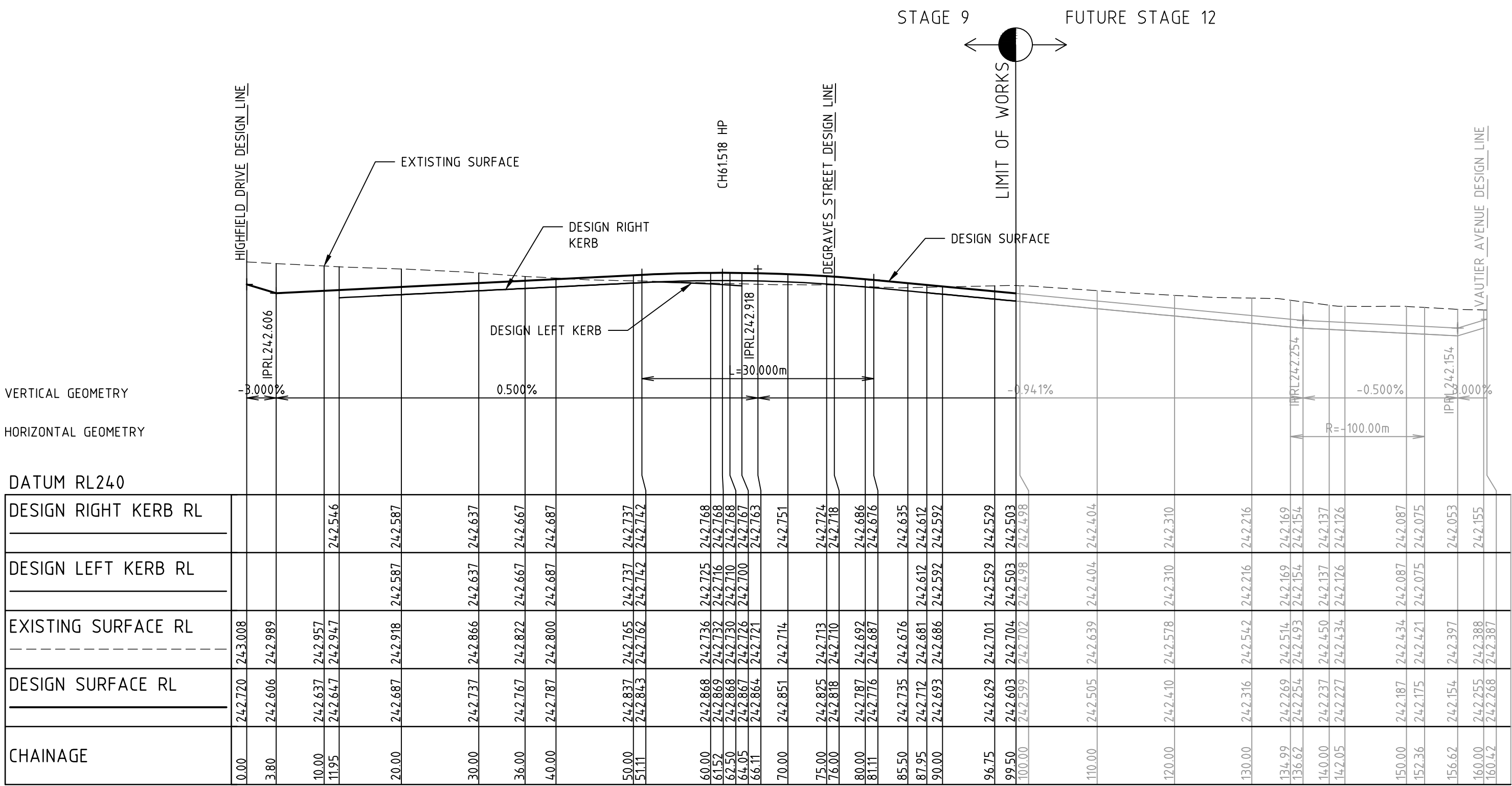
merrifield
MAB gpc

Coords: MGA
Levels: AHD
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Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400

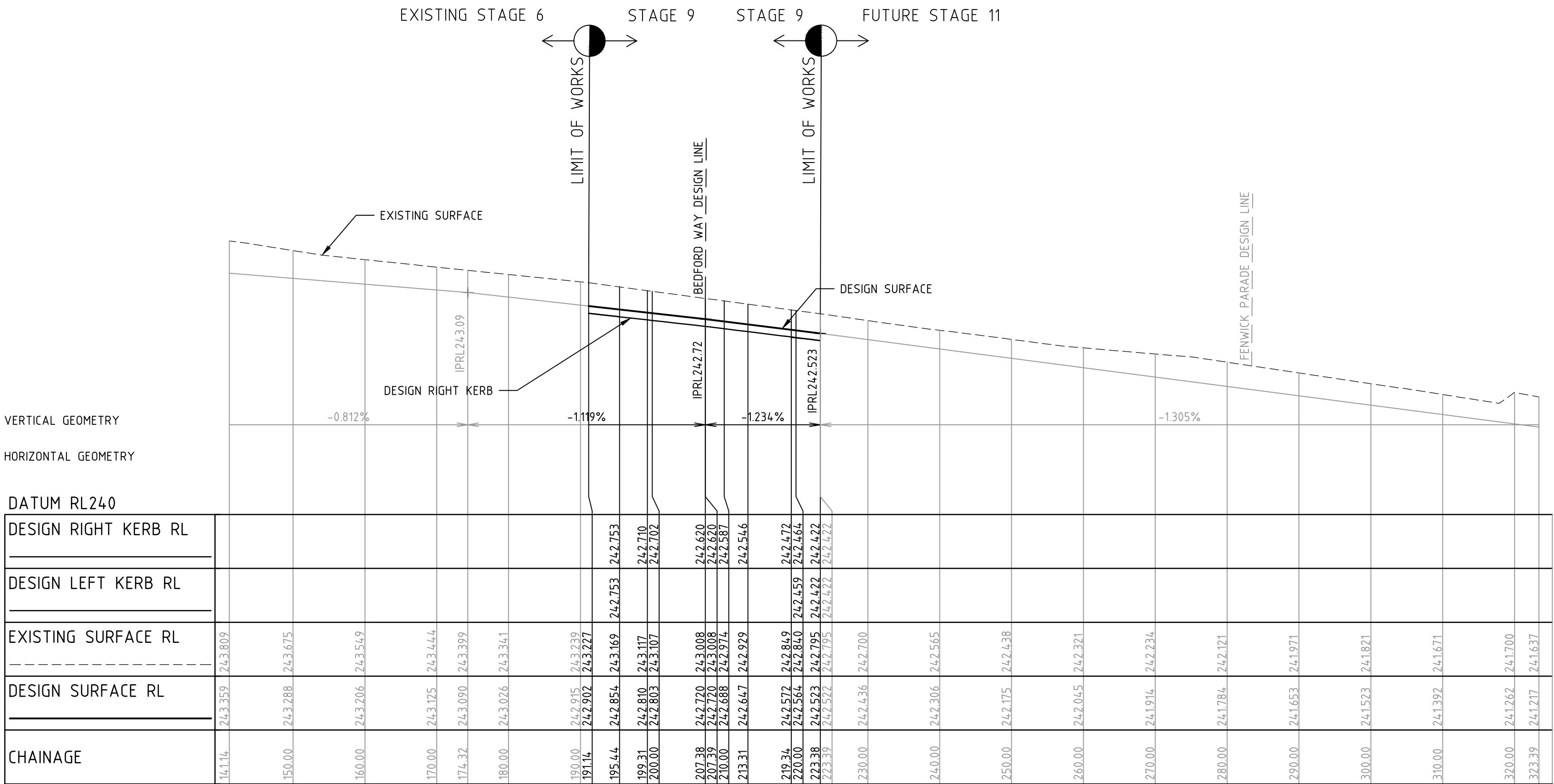
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
INTERSECTION DETAILS
SHEET 2 OF 2
Drawing No. 11729ID02 Rev 1
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Sheet No. 07
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LONGITUDINAL SECTION BEDFORD WAY



LONGITUDINAL SECTION HIGHFIELD DRIVE

AS CONSTRUCTED

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REV	AMENDMENTS	DATE	APP'D.

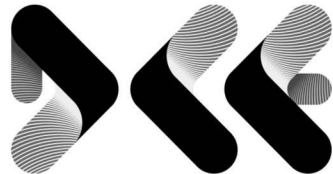
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Date 10/12/14
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Date 5/12/14
AN 1541257
Verified B.GORDON
Date 17/12/14
AN 1620495
Audited R.MASON
Date 09/06/15
AN 702907
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884262

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 1:500/1:1000

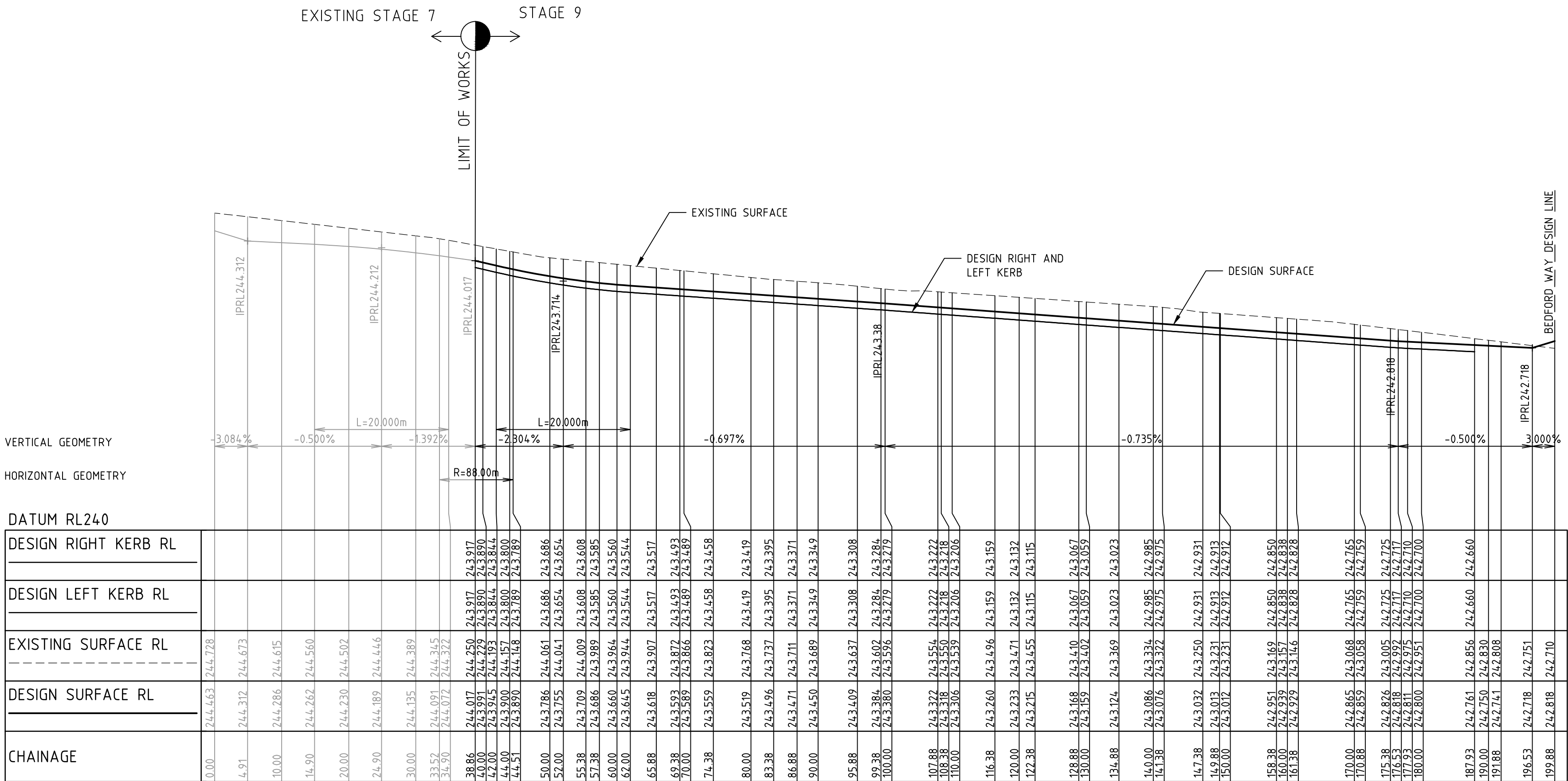
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
LONGITUDINAL SECTIONS
SHEET 1 OF 2
Drawing No. 11729LS01 Rev 1
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LONGITUDINAL SECTION DEGRAVES STREET

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL

Drawn K.PAGE
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541258
Verified B.GORDON
Date 17/12/14
AN 162047
Audited R.MASON
Date 09/06/15
AN 702908
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884263

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 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
LONGITUDINAL SECTIONS
SHEET 2 OF 2
Drawing No. 11729LS02 Rev 1
Sheet No. 09 AS CONSTRUCTED
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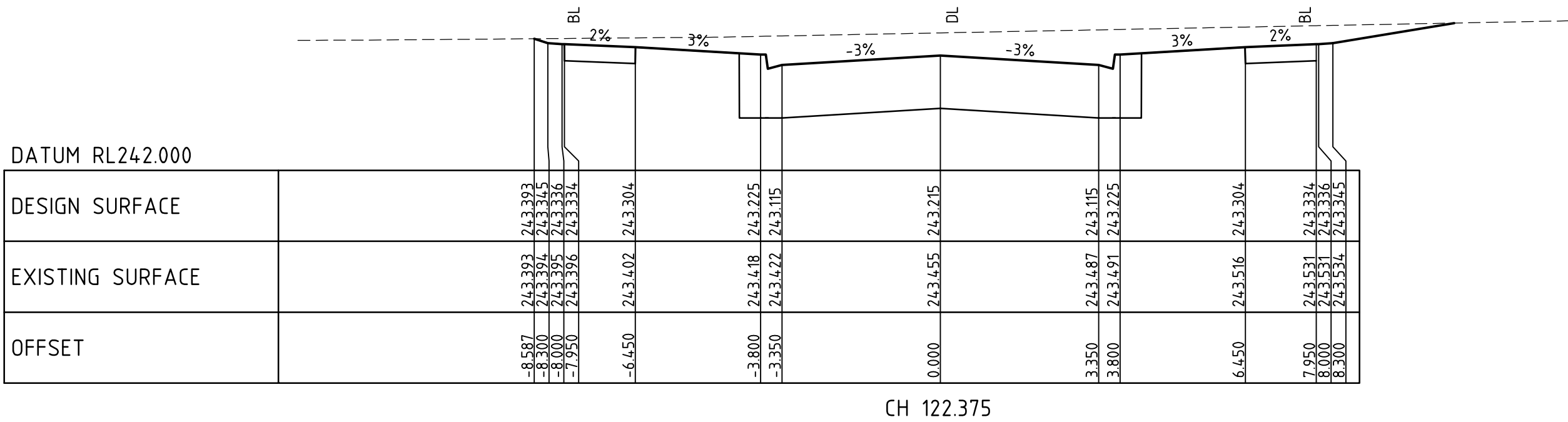
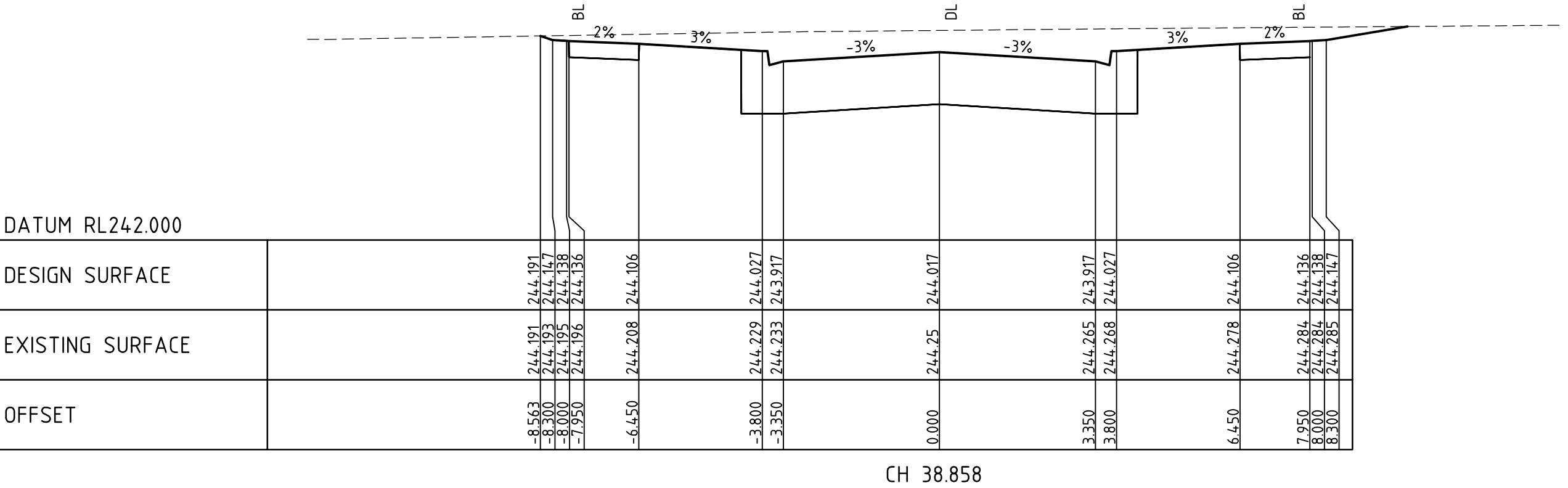
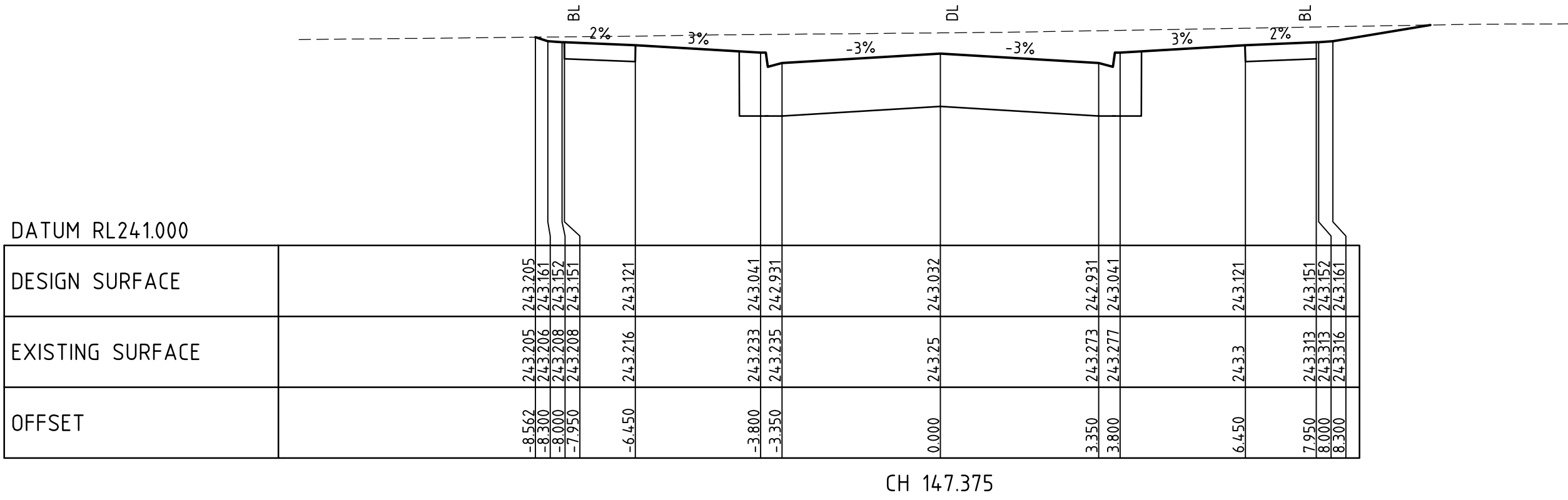
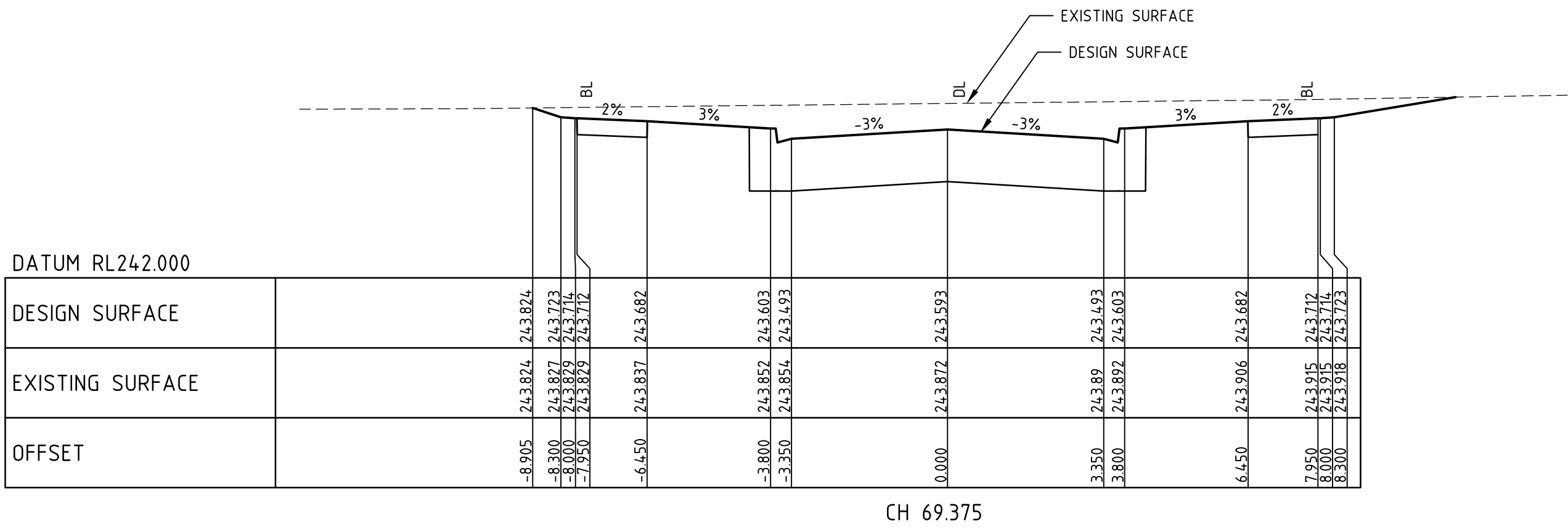
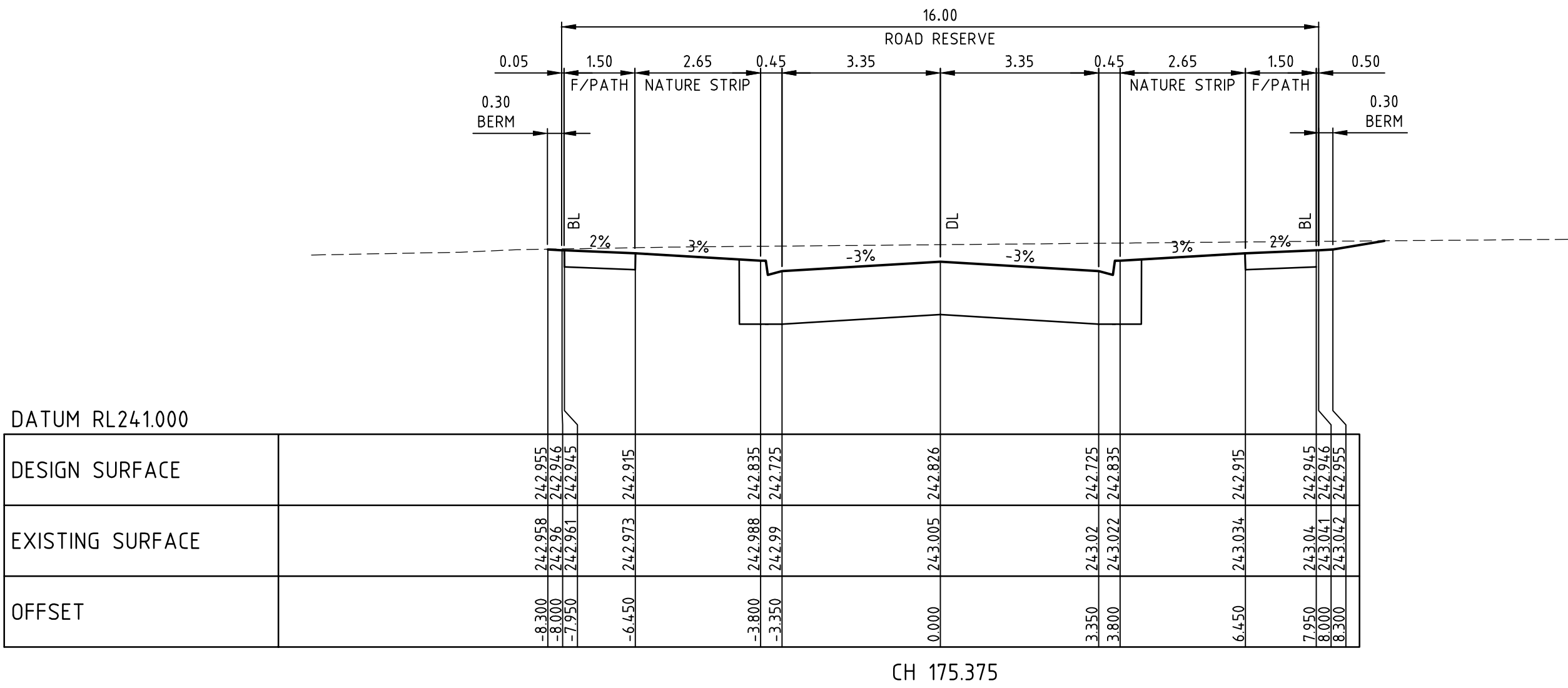
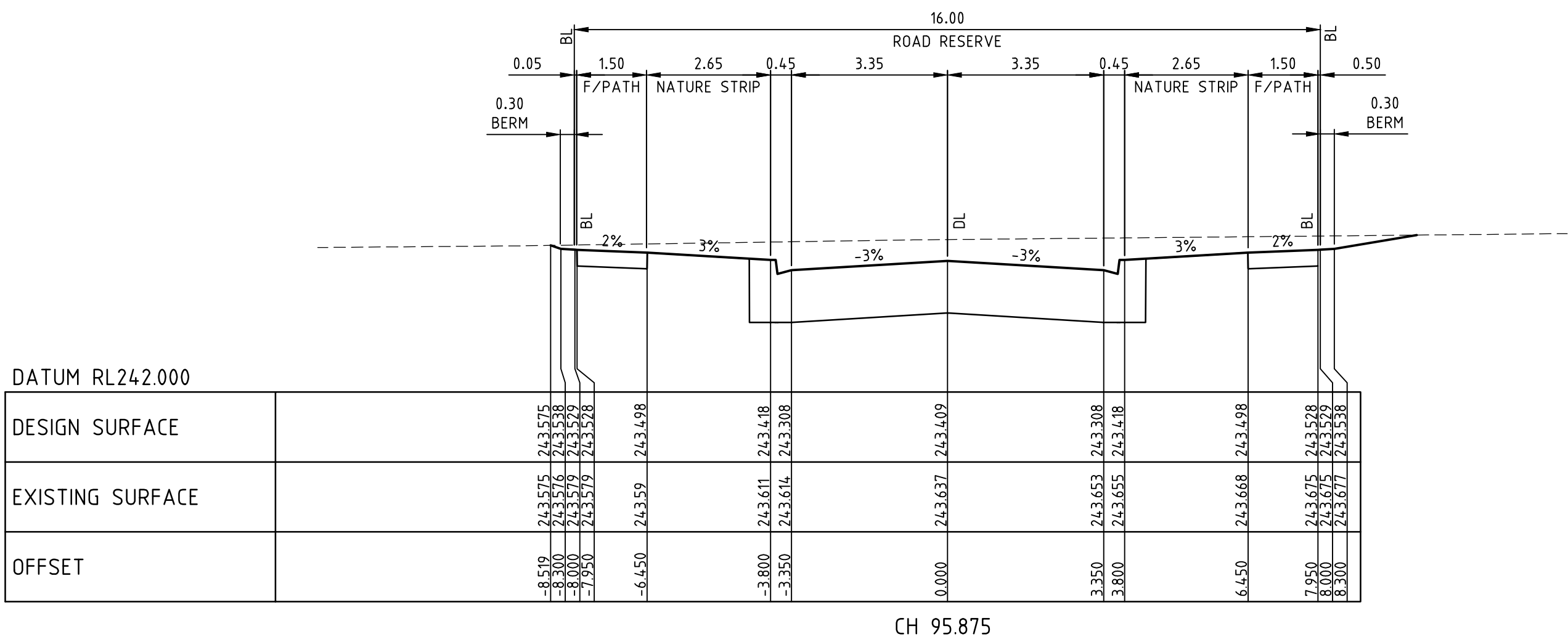


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DEGRAVES STREET

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0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

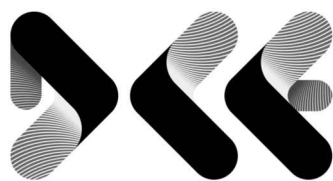
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Date 5/12/14
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Verified B.GORDON
Date 17/12/14
AN 162049
Audited R.MASON
Date 09/06/15
AN 702909
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884264

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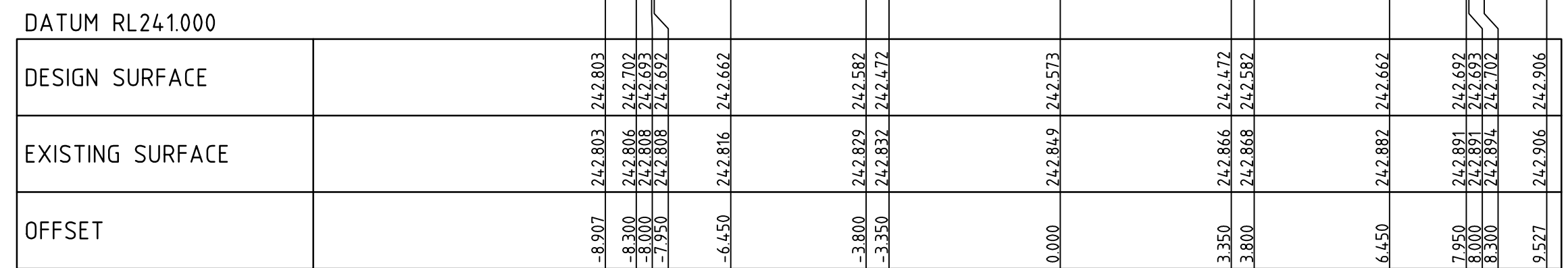
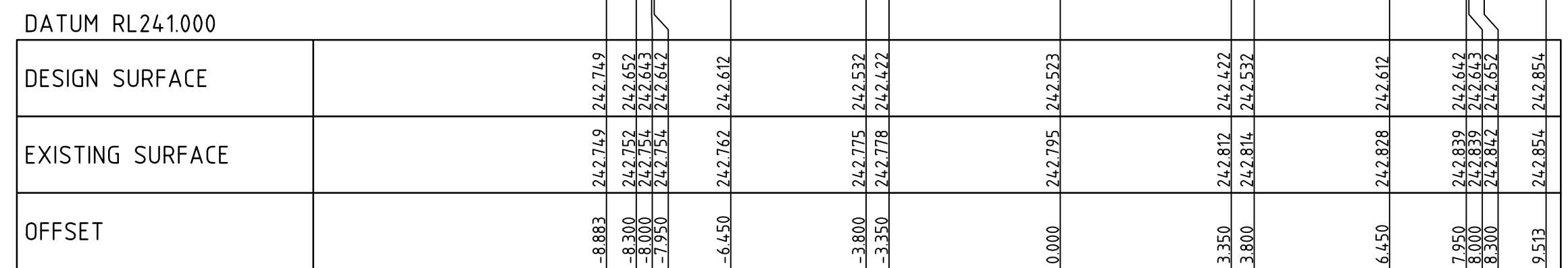
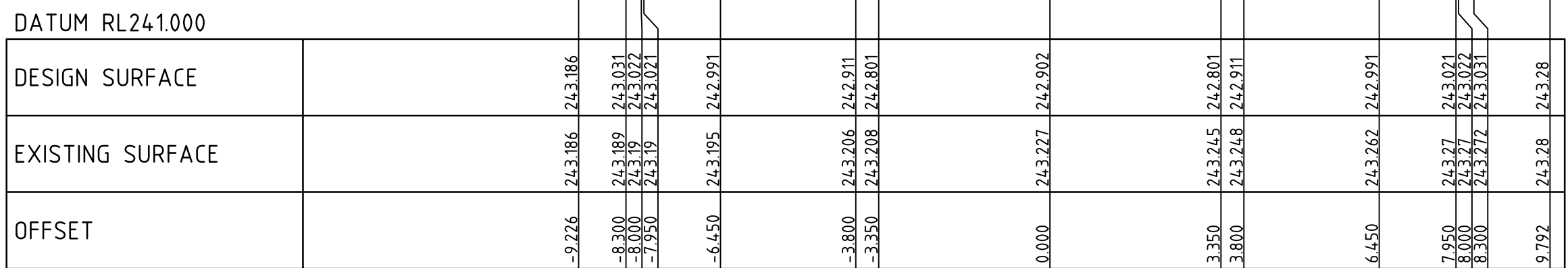
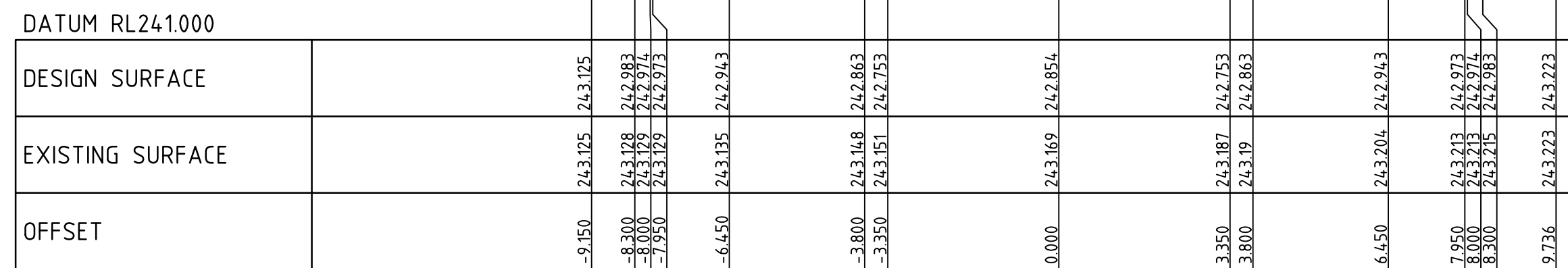
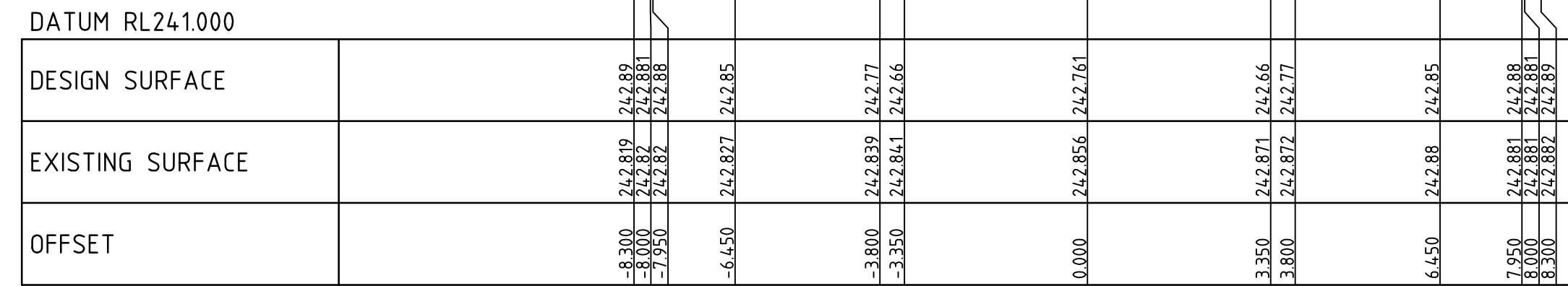
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
CROSS SECTIONS
SHEET 1 OF 3
Drawing No. 11729XS01 Rev 1
Sheet No. 10 AS CONSTRUCTED
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Coords: MGA
Levels: AHD

SHEET 2 OF 3
Drawing No. 11729XS02 Rev 1
 Sheet No. 11 **AS CONSTRUCTED**

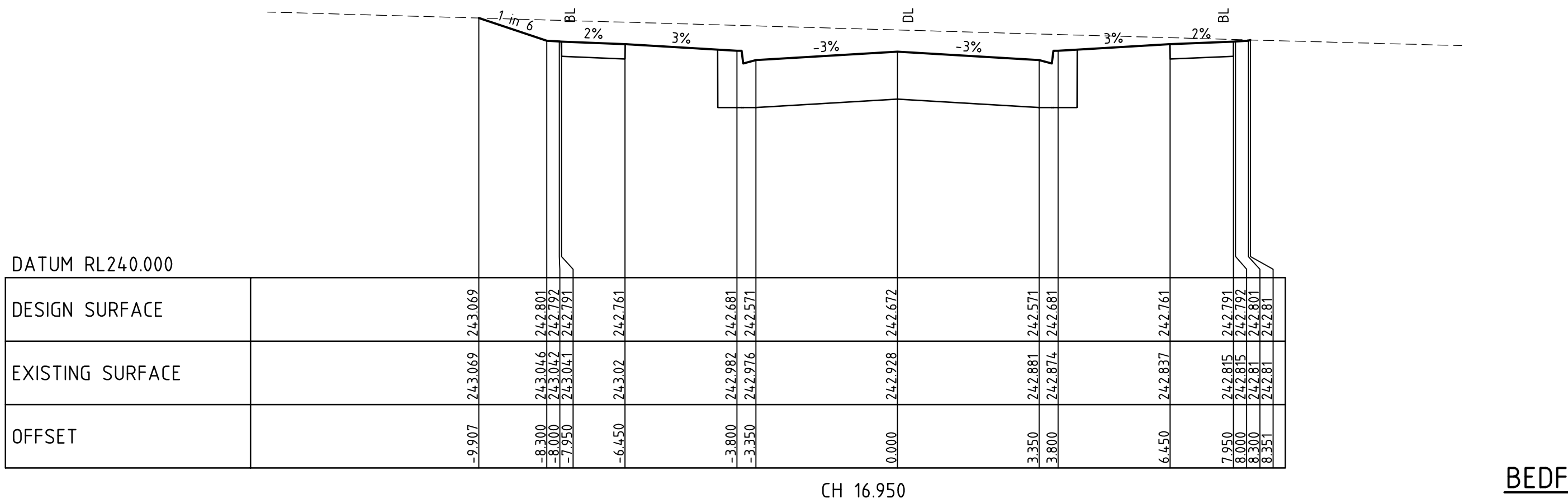
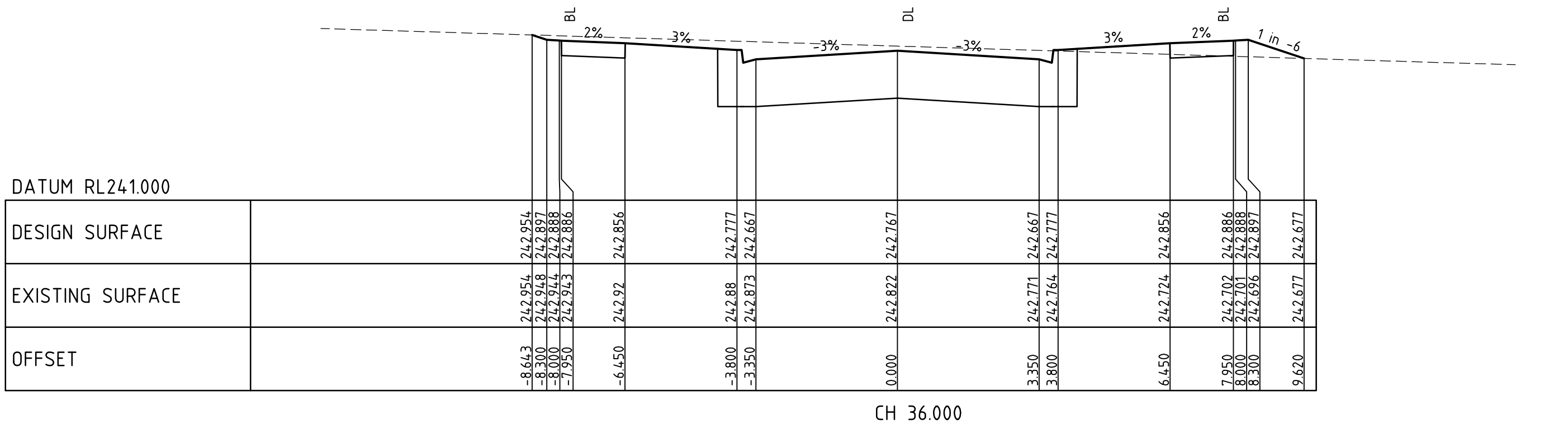
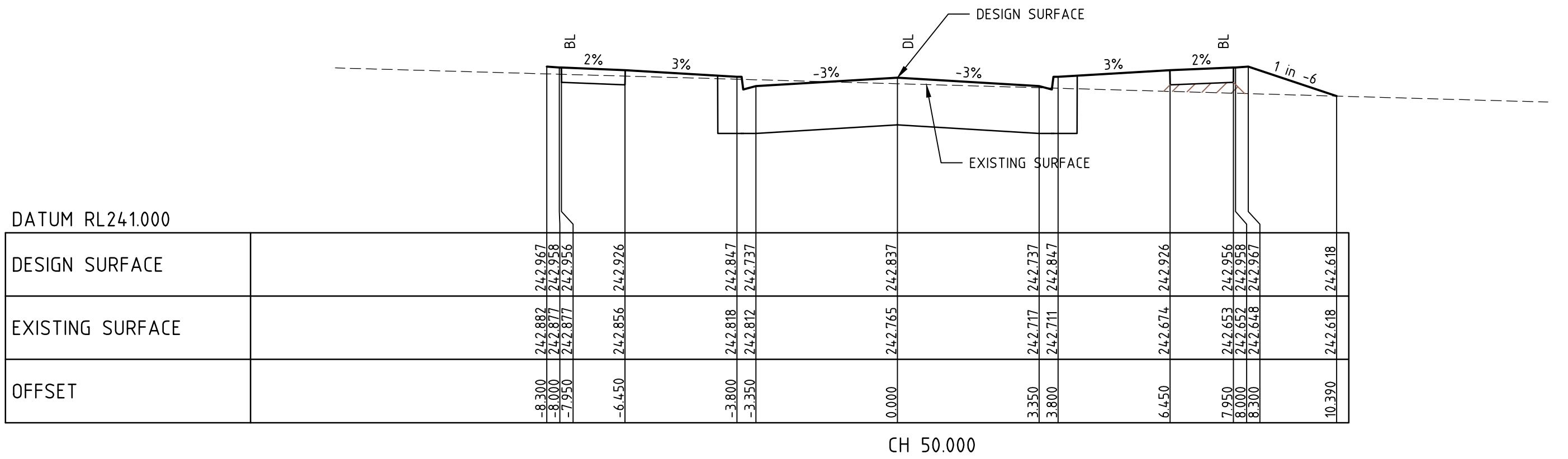
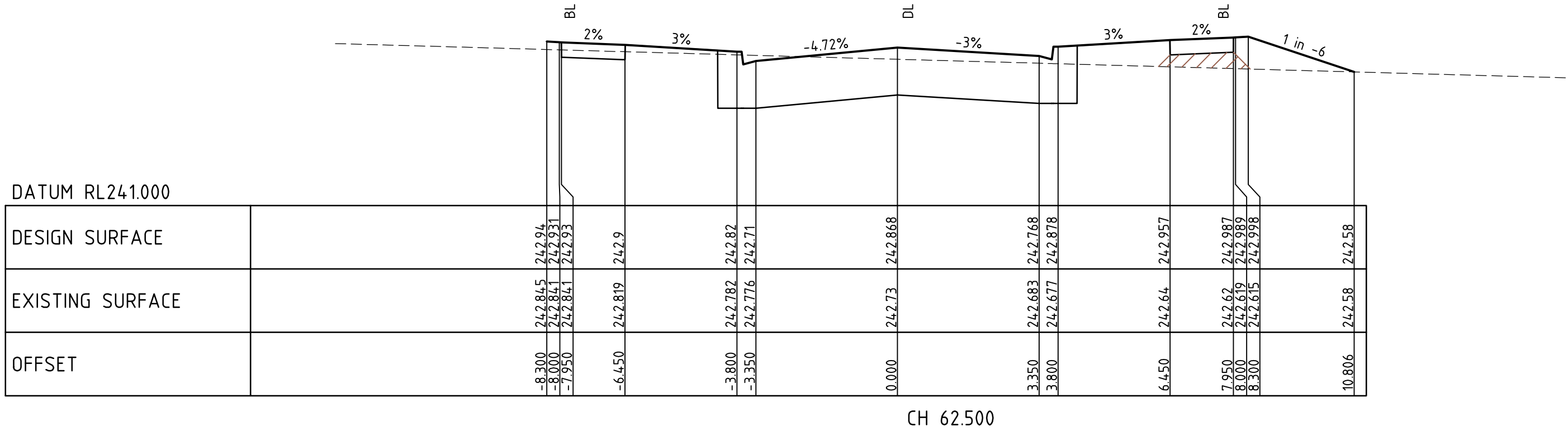
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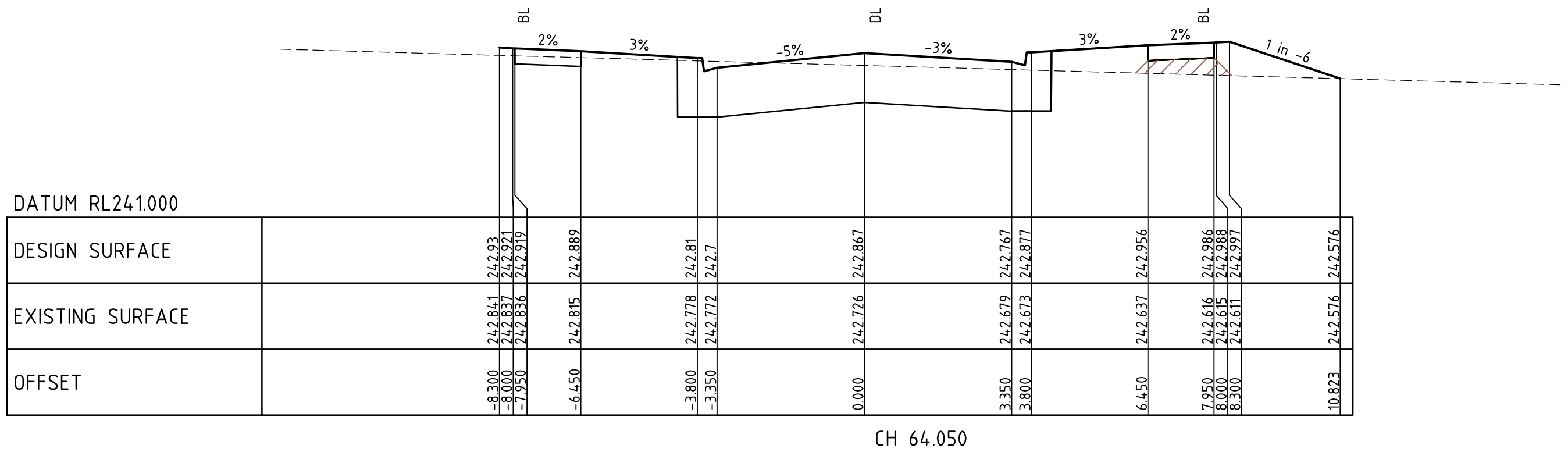
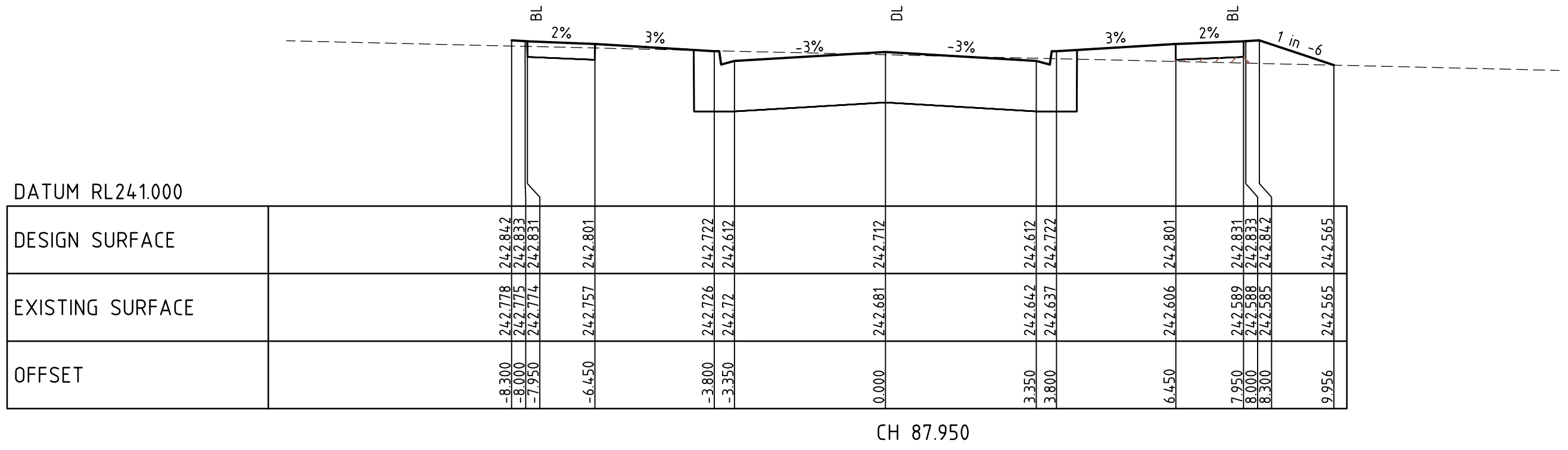
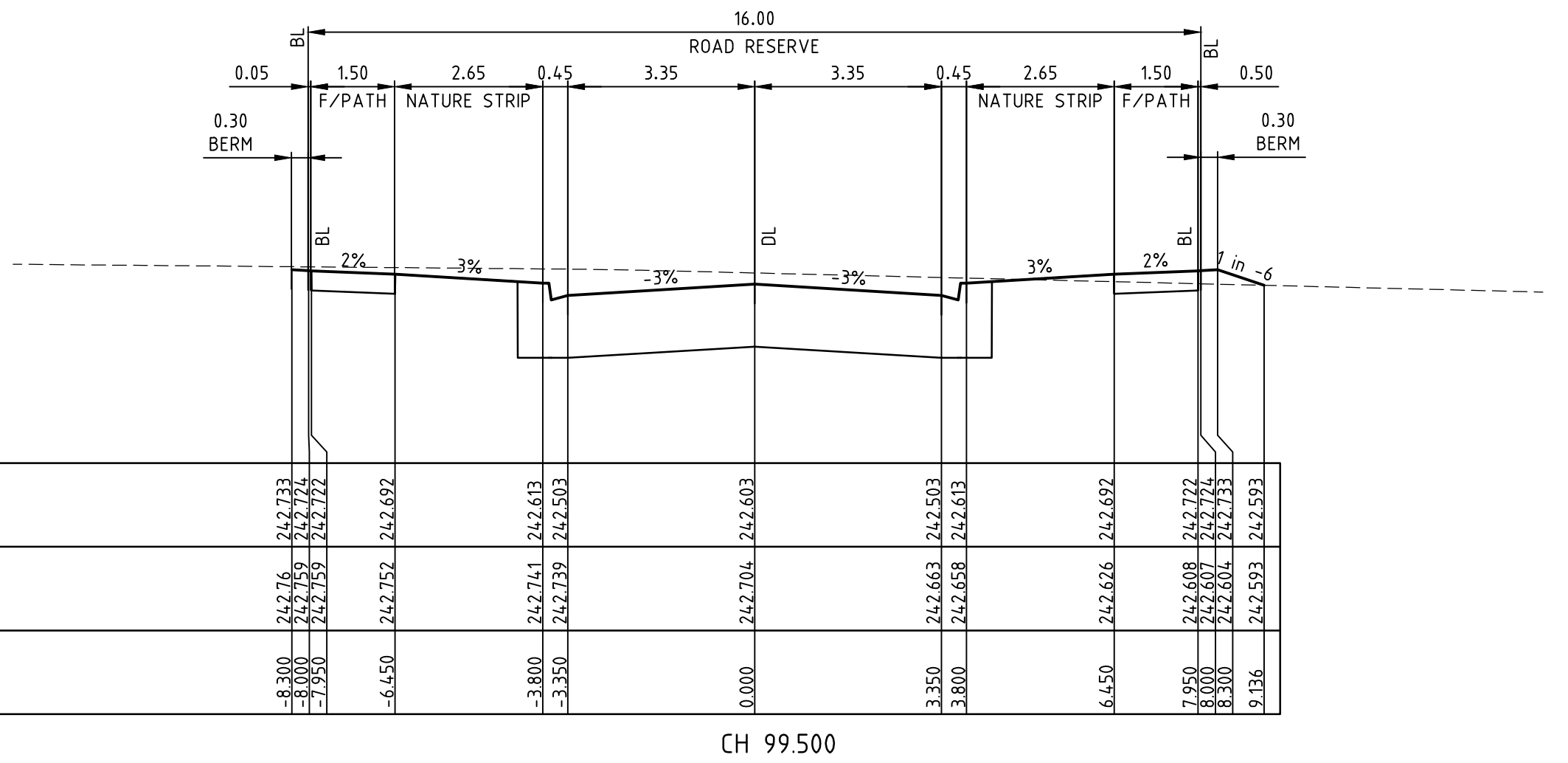
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Date 5/12/14
AN 1541260
Verified B.GORDON
Date 17/12/14
AN 162049
Audited R.MASON
Date 09/06/15
AN 702910
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884265

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: Fri Nov 20, 2015 - 4:38pm --matthew.coppola--



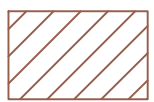
BEDFORD WAY



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REV	AMENDMENTS	DATE	APP'D.
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0	CONSTRUCTION ISSUE	02/07/15	TL

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Date 5/12/14
AN 1541261
Verified B.GORDON
Date 17/12/14
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Audited R.MASON
Date 09/06/15
AN 702911
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884266

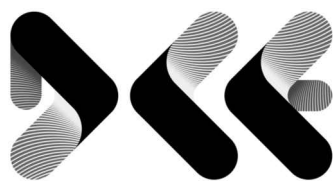


STRUCTURAL FILL

merrifield
MAB gpc

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Levels: AHD
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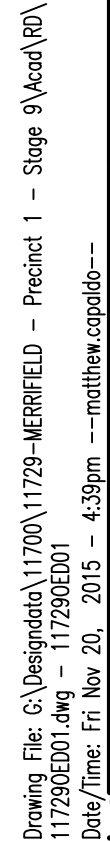
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
CROSS SECTIONS
SHEET 3 OF 3
Drawing No. 11729XS03 Rev 1
Sheet No. 12 AS CONSTRUCTED
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POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING	RADIUS
		EASTING	NORTHING		DEG MIN SEC	
INTERSECTION POINT	0.000	315431.039	5844154.039	238.077	97°03'09.99"	
STRAIGHT	20.000	315450.888	5844151.584	238.037	97°03'09.99"	
INTERSECTION POINT	20.073	315450.960	5844151.575	238.037	97°03'09.99"	
INTERSECTION POINT	20.073	315450.960	5844151.575	238.037	51°12'59.07"	
STRAIGHT	40.000	315466.494	5844164.057	237.997	51°12'59.07"	
STRAIGHT	60.000	315482.084	5844176.585	237.957	51°12'59.07"	
STRAIGHT	80.000	315497.675	5844189.112	237.917	51°12'59.07"	
INTERSECTION POINT	86.448	315502.701	5844193.151	NULL	51°12'59.07"	

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING	RADIUS
		EASTING	NORTHING		DEG MIN SEC	
INTERSECTION POINT	0.000	315198.678	5844184.198	240.709	7°03'10.01"	
STRAIGHT	20.000	315201.133	5844204.047	240.629	7°03'10.01"	
STRAIGHT	40.000	315203.589	5844223.895	240.549	7°03'10.01"	
STRAIGHT	60.000	315206.045	5844243.744	240.469	7°03'10.01"	
STRAIGHT	80.000	315208.500	5844263.593	240.389	7°03'10.01"	
INTERSECTION POINT	81.500	315208.685	5844265.081	240.383	7°03'10.01"	
INTERSECTION POINT	81.500	315208.685	5844265.081	240.383	359°59'33.87"	
STRAIGHT	100.000	315208.682	5844283.581	240.309	359°59'33.87"	
STRAIGHT	120.000	315208.680	5844303.581	240.229	359°59'33.87"	
STRAIGHT	140.000	315208.677	5844323.581	240.149	359°59'33.87"	
STRAIGHT	160.000	315208.675	5844343.581	240.069	359°59'33.87"	
STRAIGHT	180.000	315208.672	5844363.581	239.989	359°59'33.87"	
STRAIGHT	200.000	315208.670	5844383.581	239.909	359°59'33.87"	
STRAIGHT	220.000	315208.667	5844403.581	239.829	359°59'33.87"	
STRAIGHT	240.000	315208.664	5844423.581	239.749	359°59'33.87"	
INTERSECTION POINT	240.458	315208.664	5844424.039	239.747	359°59'33.87"	

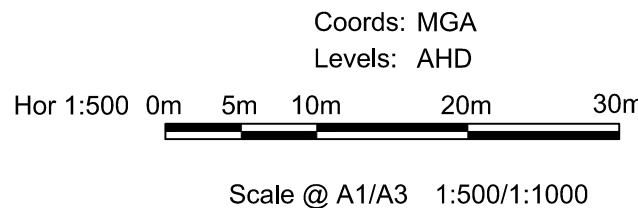
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site, Discrepancies to be brought to the attention of the Superintendent.

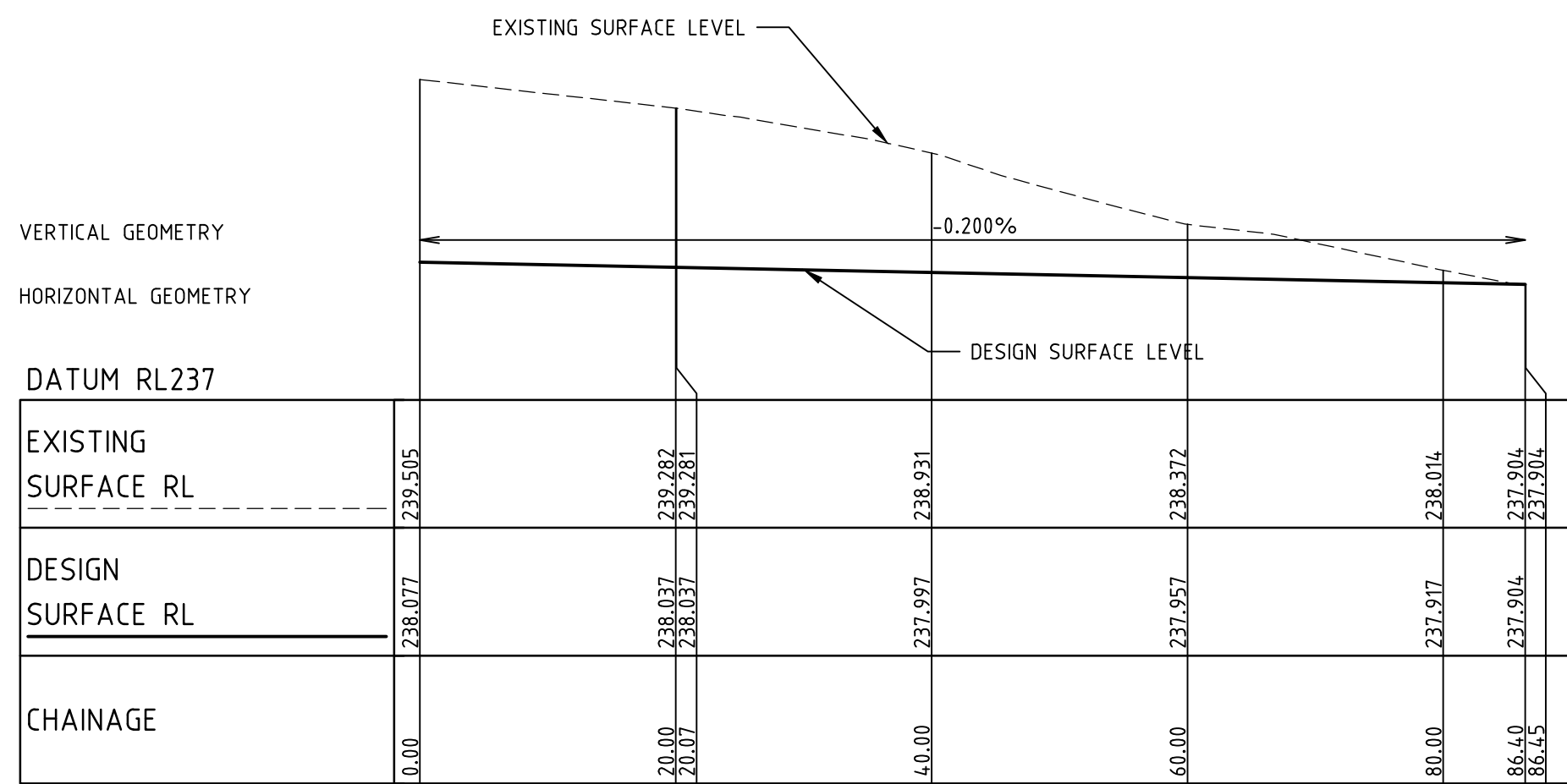
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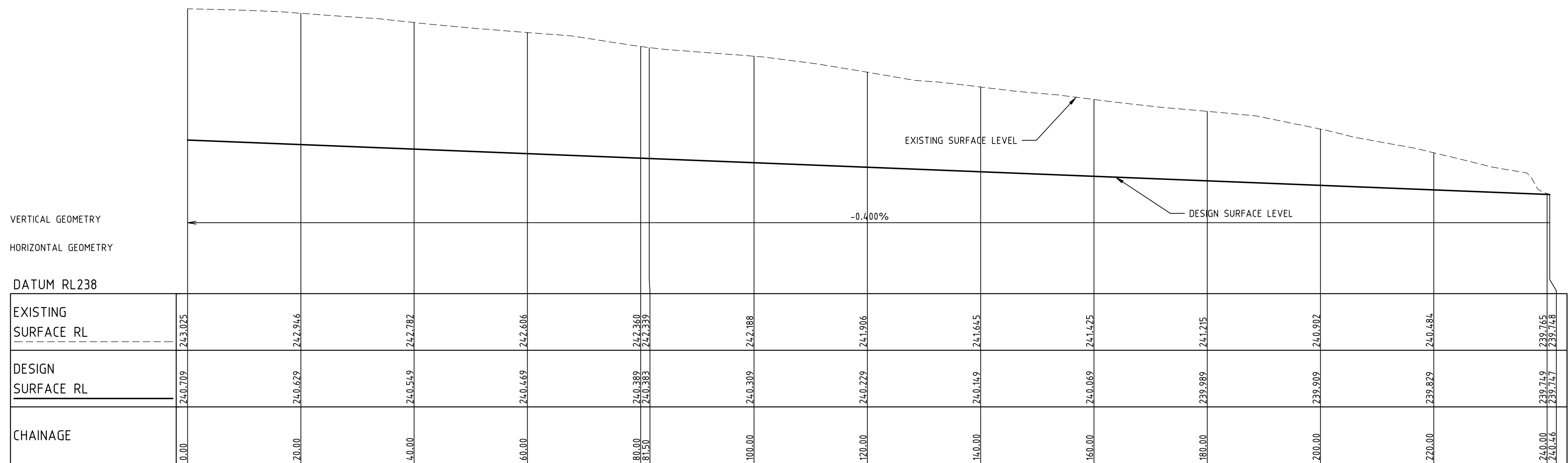
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 RECYCLED WATER
 TELECOMMUNICATIONS
 ELECTRICITY
 GAS
 STREET NAME SIGN
 REGRADE LOT AT MIN 1 IN 150
 ASPHALT PAVEMENT
 CONC FOOTPATH / DRIVEWAY
 LIMIT OF WORKS
 FILLING OVER 300mm
 FINISHED SURFACE CONTOUR



Drawing File: G:\Design\11700\11700-MERRIFIELD - Precinct 1 - Stage 9\Acad\11700-117290ED02.dwg - 117290ED02
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LONGITUDINAL SECTION OPEN EARTH DRAIN 1



LONGITUDINAL SECTION OPEN EARTH DRAIN 2

AS CONSTRUCTED

1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

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Designed N.MIRATANA
Date 5/12/14
AN 1541263
Verified B.GORDON
Date 17/12/14
AN 162359
Audited R.MASON
Date 09/06/15
AN 702913
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884268

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
Ex V EXISTING ELEC. POLE & O'HEAD LINES
Ex P EXISTING STORMWATER DRAIN & PIT
CONSTRUCTED PRE DEVELOPMENT
EXISTING TREES TO BE REMOVED
FS21.650
FS21.650
OPEN EARTH DRAIN (O.E.D.)

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

W WATER
RW RECYCLED WATER
T TELECOMMUNICATIONS
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
155.0
FINISHED SURFACE CONTOUR

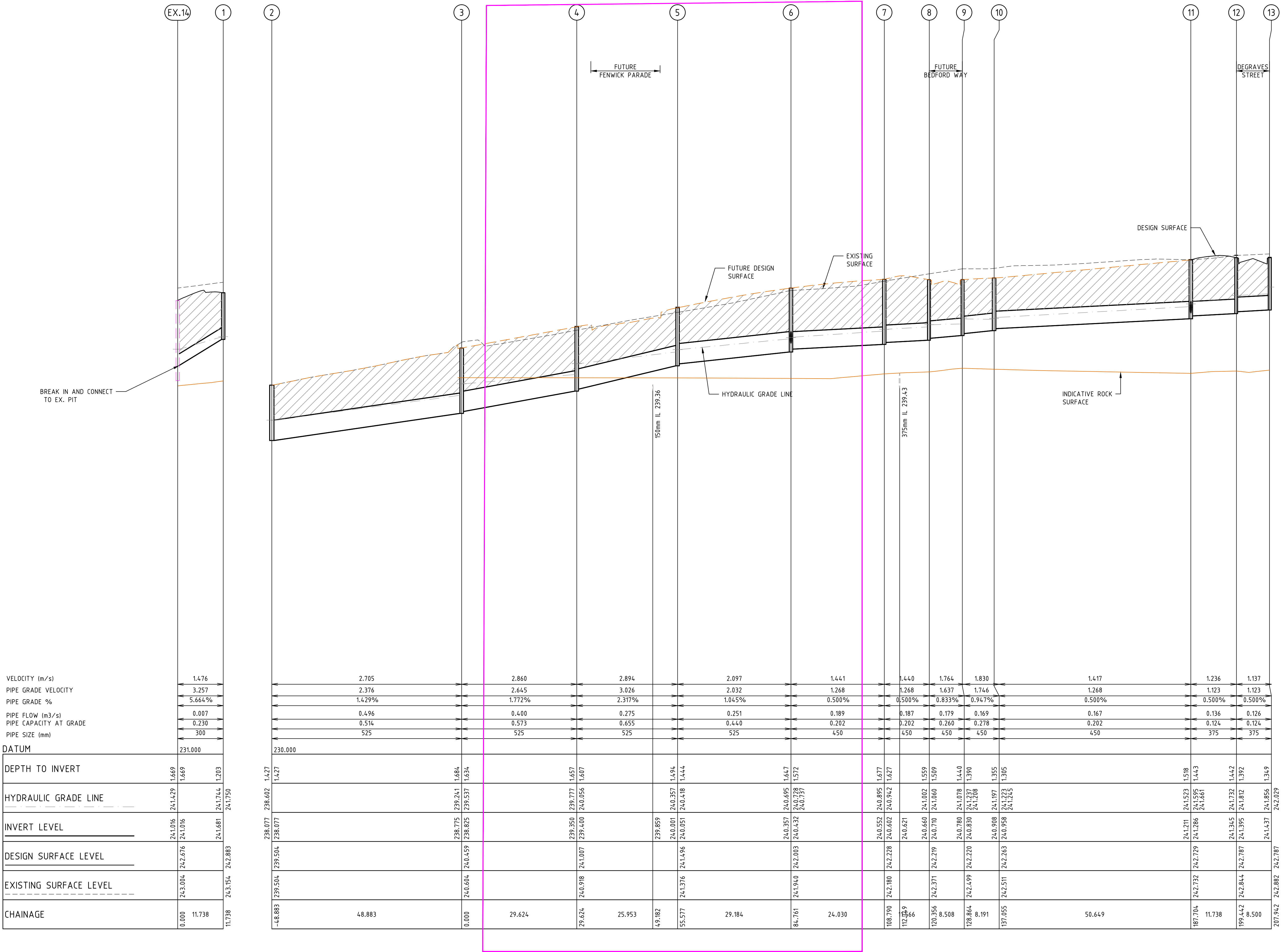
merrifield
MAB gpc
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Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
OPEN EARTH DRAIN PLAN
SHEET 02 OF 02
Drawing No. 117290ED02 Rev 1
Sheet No. 14 AS CONSTRUCTED
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REV	AMENDMENTS	DATE	APP'D.
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0	CONSTRUCTION ISSUE	02/07/15	TL

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Verified B.GORDON
Date 17/12/14
AN 162051
Audited R.MASON
Date 09/06/15
AN 702914
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884269



Denotes crushed rock backfill



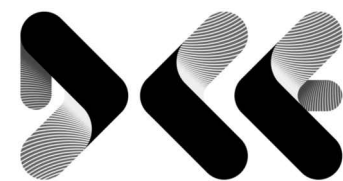
Denotes future finished surface level

AS CONSTRUCTED



Coords: MGA
Levels: AHD
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Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 9
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 3
Drawing No. 11729DR01 Rev 2
Sheet No. 15 AS CONSTRUCTED
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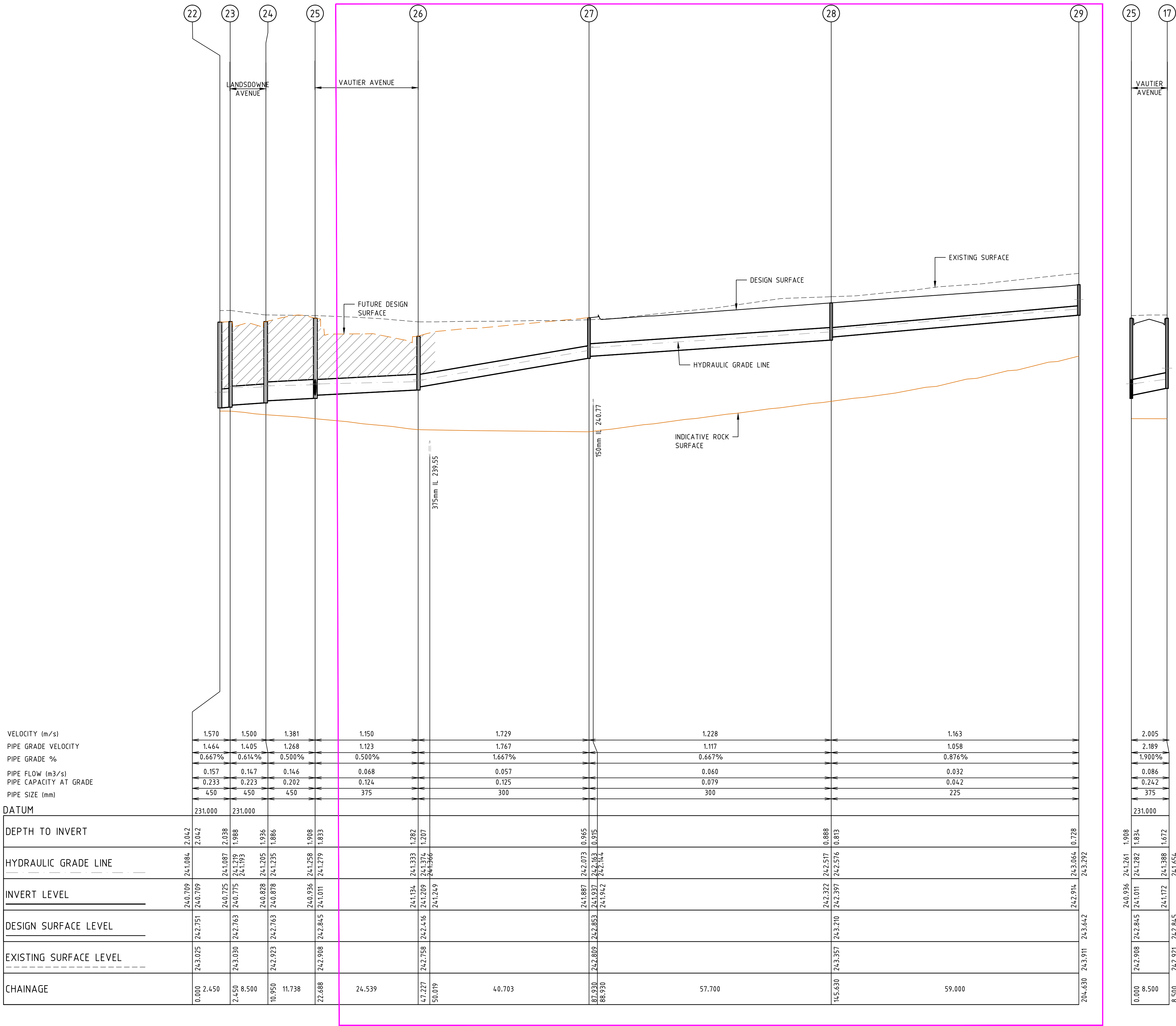
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0	CONSTRUCTION ISSUE	02/07/15	TL

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Verified B.GORDON
Date 17/12/14
AN 162053
Audited R.MASON
Date 09/06/15
AN 702916
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884271

--- DENOTES CRUSHED ROCK BACKFILL
--- DENOTES FUTURE FINISHED SURFACE LEVEL

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 9
DRAINAGE LONGITUDINAL SECTIONS
SHEET 3 OF 3
Drawing No. 11729DR03 Rev 2
Sheet No. 17 AS CONSTRUCTED
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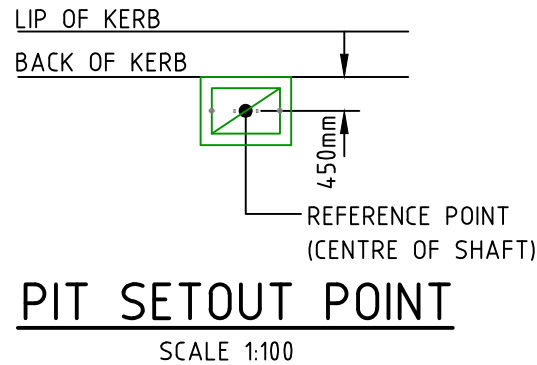
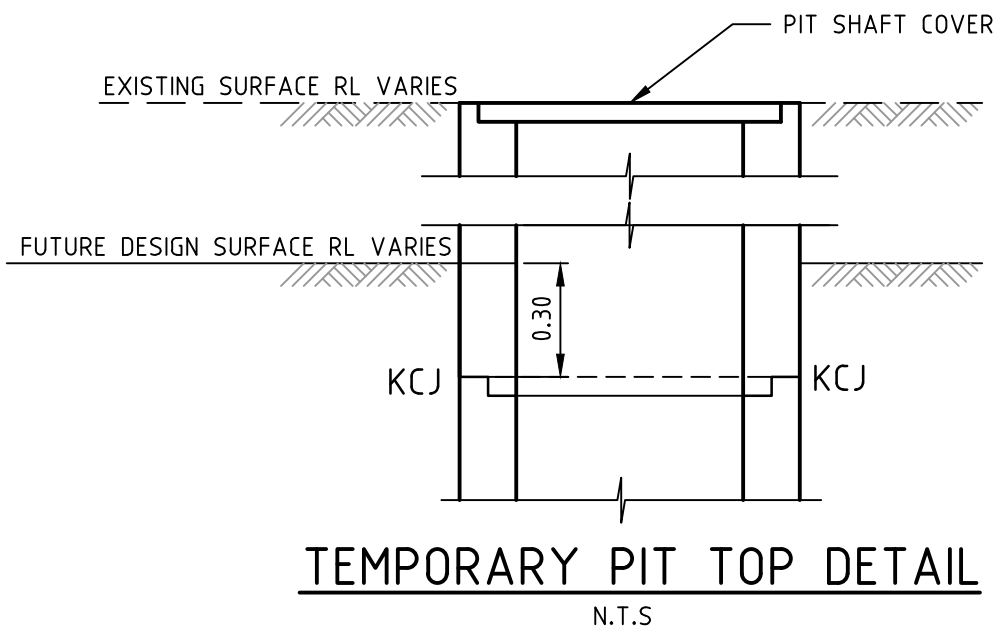
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Date/Time: Fri Nov 20, 2015 - 4:39pm --matthew.coppola--

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT		REMARKS
				WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
Ex. 14	JP	315241.991	5844021.196	600	900	300	241.016			242.676	1.66	REFER TO GAA STD DRG FIG.014
1	GSEP	315232.735	5844013.978	600	900			300	241.681	242.883	1.203	REFER TO GAA STD DRG FIG.012
2	EW	315431.061	5844154.207				238.077			239.504	1.427	OUTFALL STRUCTURE. REF GAA STD DRW FIG. 019
3	GSEP	315382.546	5844160.197	T600 B900	T900 B900	525	238.825	525	238.775	240.459	1.684	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO HUME CITY COUNCIL SD 245
4	GSEP	315353.145	5844163.828	T600 B900	T900 B900	525	239.4	525	239.35	241.015	1.665	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO HUME CITY COUNCIL SD 245
5	GSEP	315327.308	5844166.269	T600 B900	T900 B900	525	240.051	525	240.001	241.51	1.508	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO HUME CITY COUNCIL SD 245
6	GSEP	315298.145	5844165.175	T600 B900	T900 B900	450 300	240.432 240.582	525	240.357	242.035	1.678	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO HUME CITY COUNCIL SD 245
7	GSEP	315274.146	5844163.961	600	900	450	240.602	450	240.552	242.325	1.774	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
8	GSEP	315266.243	5844155.516	600	900	450	240.71	450	240.66	242.365	1.705	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
9	GSEP	315257.746	5844155.084	600	900	450	240.83	450	240.78	242.366	1.586	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
10	GSEP	315257.448	5844146.899	600	900	450	240.958	450	240.908	242.409	1.501	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
11	GSEP	315251.323	5844096.621	600	900	375 300	241.286 241.361	450	241.211	242.738	1.527	REFER TO GAA STD DRG FIG.012
12	GSEP	315242.067	5844089.403	600	900	375	241.395	375	241.345	242.847	1.502	REFER TO GAA STD DRG FIG.012
13	GSEP	315241.023	5844080.967	600	900	375	241.487	375	241.437	242.795	1.357	REFER TO GAA STD DRG FIG.012
14	GSEP	315162.135	5844090.703	600	900	300 300	241.96 241.96	375	241.885	243.334	1.449	REFER TO GAA STD DRG FIG.012
15	GSEP	315104.229	5844097.891	600	900	300	242.358	300	242.308	243.817	1.509	REFER TO GAA STD DRG FIG.012
16	GSEP	315105.271	5844106.327	600	900	300	242.458	300	242.458	243.819	1.36	REFER TO GAA STD DRG FIG.012
17	GSEP	315212.987	5844163.031	600	900			375	241.172	242.845	1.672	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
18	GSEP	315163.218	5844099.158	600	900	300	242.055	300	242.055	243.355	1.301	REFER TO GAA STD DRG FIG.012
19	GSEP	315259.759	5844095.578	600	900			300	241.446	242.805	1.359	REFER TO GAA STD DRG FIG.012
20	JP	315290.307	5844101.824	600	600	225	241.467	300	241.392	242.308	0.916	REFER TO GAA STD DRG FIG.014
21	JP	315284.229	5844052.699	600	600			225	241.742	242.417	0.676	REFER TO GAA STD DRG FIG.014
22	EW	315198.678	5844184.198			450	240.709			242.751	2.042	OUTFALL STRUCTURE. REF GAA STD DRW FIG. 019
23	GSEP	315198.377	5844181.766	T600 B900	T900 B900	450	240.775	450	240.725	242.763	2.038	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
24	GSEP	315206.813	5844180.723	T600 B900	T900 B900	450	240.878	450	240.828	242.763	1.936	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
25	GSEP	315214.031	5844171.466	600	900	375 375	241.011 241.011	450	240.936	242.845	1.908	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
26	GSEP	315236.698	5844162.065	600	900	300	241.209	375	241.134	242.416	1.282	TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO GAA STD DRG FIG.012
27	JP	315231.7	5844121.67	600	600	300	241.937	300	241.887	242.853	0.965	REFER TO GAA STD DRG FIG.013
28	JP	315174.437	5844128.755	600	600	225	242.397	300	242.322	243.21	0.888	REFER TO GAA STD DRG FIG.014
29	JP	315115.883	5844135.999	600	600			225	242.914	243.642	0.728	REFER TO GAA STD DRG FIG.014

KEY:
GSEP = GRATED SIDE ENTRY PIT
JP = JUNCTION PIT
EW = ENDWALL
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 GROWTH AREAS AUTHORITY STD FIGURE 012.
 - ALL TEMPORARY JUNCTION PITS (JP) TO BE CONSTRUCTED WITH KEYED CONSTRUCTION JOINTS (K.C.J) FOR FUTURE SEP CONVERSION
 - 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 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 600mm DIA.
 - ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HUME CITY COUNCIL SD245

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	20/11/15	TL
1	DRAINAGE RAISED	14/07/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL

Drawn K.PAGE
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541267
Verified B.GORDON
Date 17/12/14
AN 162053
Audited R.MASON
Date 09/06/15
AN 702917
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884272

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
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 9

DRAINAGE DETAILS

Drawing No. 11729DR04

Rev 2

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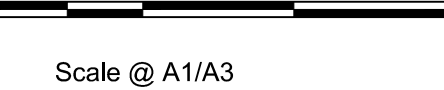
MERRIFIELD - 9				Sheet 1 of 8 sheets	
29 LOTS AND BALANCE LOT J		LICENSED SURVEYOR (PRINT) GEOFFREY JAMES TURNER		Original sheet size A3	
Bosco Jonson Pty Ltd A.B.N 15 169 138 827 P.O. Box 5075, South Melbourne, Vic 3205 16 Eastern Road South Melbourne Vic 3205 Australia Tel 03) 9699 1400 Fax 03) 9699 5992				SIGNATURE DIGITALLY SIGNED DATE / / REF 29005093 01/06/15 VERSION H DWG 2900509AH	



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Date/Time: Fri Nov 20, 2015 - 4:39pm --matthew.capolbo--

Drawn KP
Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541268
Verified B.GORDON
Date 17/12/14
AN 162054
Audited R.MASON
Date 09/06/15
AN 702918
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884273

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FILL PLAN NOTES

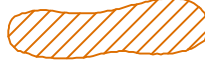
THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.

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.

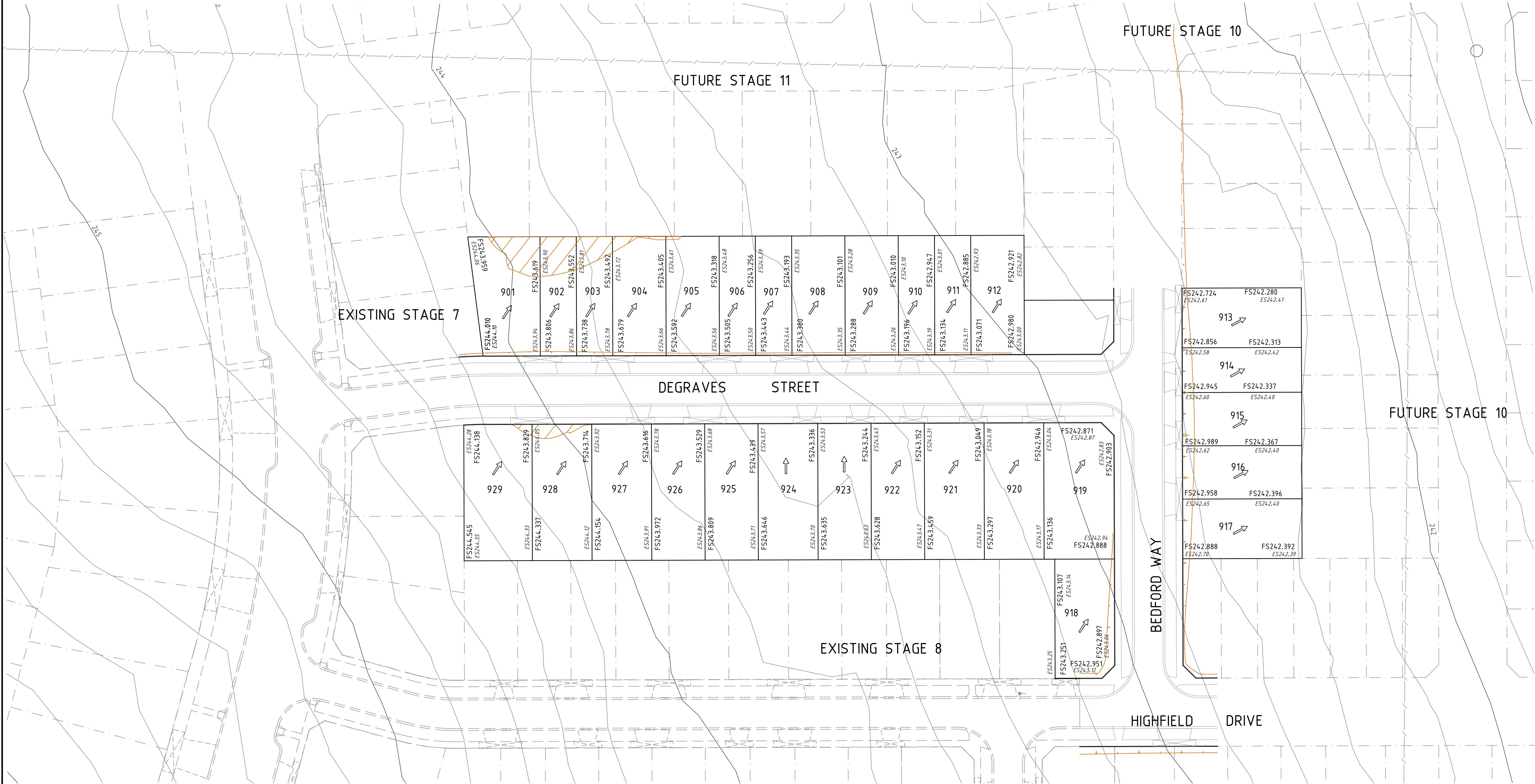
THE AREA MARKED THUS  ON THIS PLAN INDICATES FILL DEEPER THAN 200mm PLACED ON ALLOTMENTS.

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

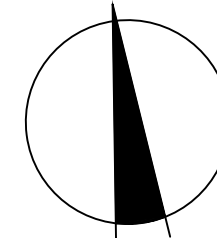
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0	CONSTRUCTION ISSUE	02/07/15	TL
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Date 10/12/14
AN 151100
Designed N.MIRATANA
Date 5/12/14
AN 1541269
Verified B.GORDON
Date 17/12/14
AN 162055
Audited R.MASON
Date 09/06/15
AN 702919
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884274

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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 9
FILL PLAN

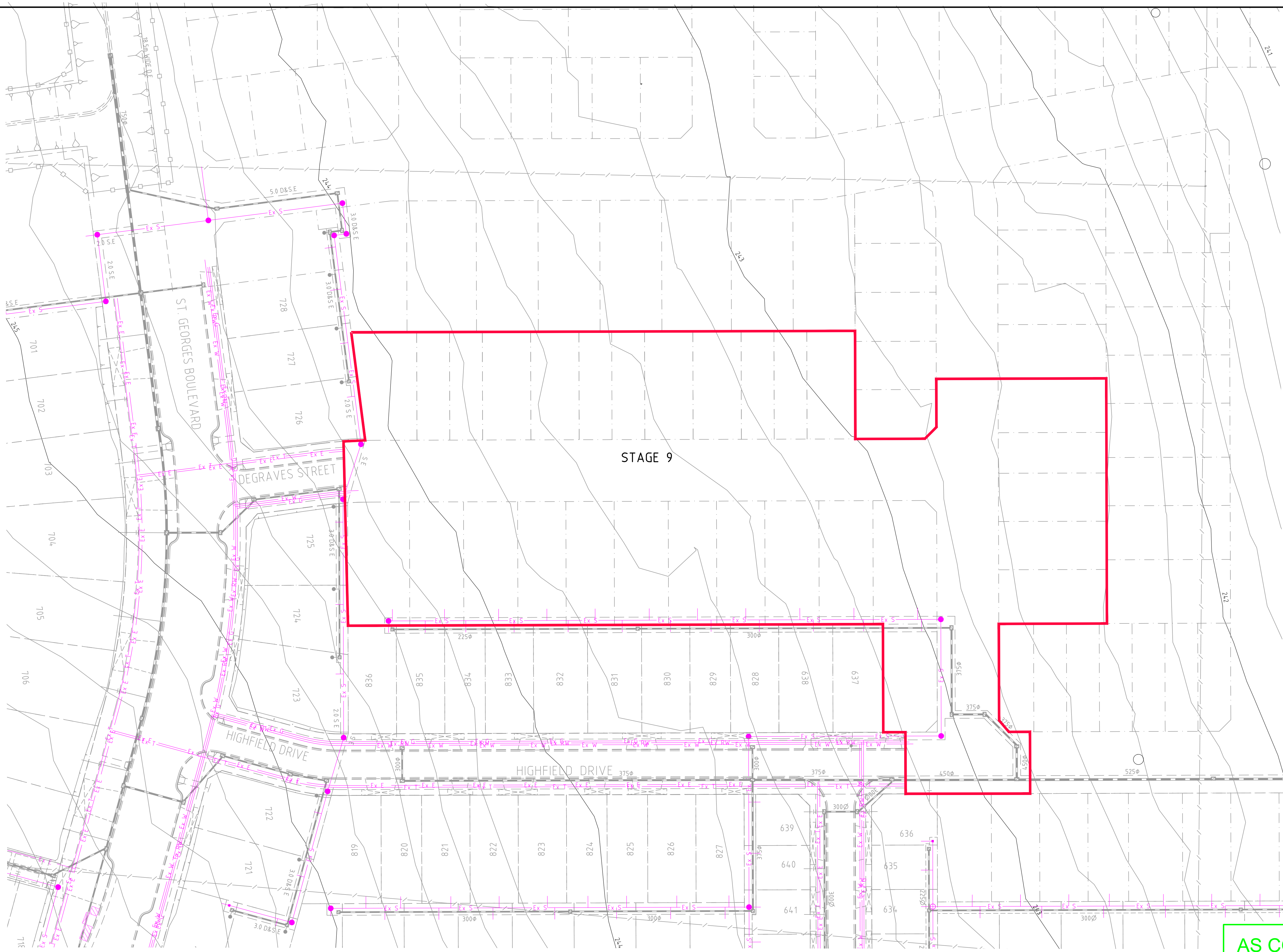
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Sheet No. 20 AS CONSTRUCTED
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Drawing File: C:\Desig\merrifield\11729-MERRIFIELD - Prelim 1 - Stage 9\Acad\VD\11729EF01.dwg - 11729EF01
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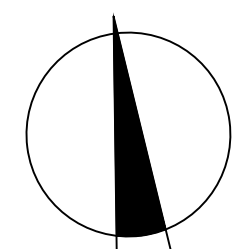


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1	AS CONSTRUCTED	20/11/15	TL
0	CONSTRUCTION ISSUE	02/07/15	TL
REV	AMENDMENTS	DATE	APP'D.

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Date 10/12/14
AN 1511000
Designed N.MIRATANA
Date 5/12/14
AN 1541270
Verified B.GORDON
Date 17/12/14
AN 162056
Audited R.MASON
Date 09/06/15
AN 702920
Approved T.LIAKOPOULOS
Date 02/07/15
AN 884275

- 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
 - V EXISTING ELEC. POLE & O'HEAD LINES

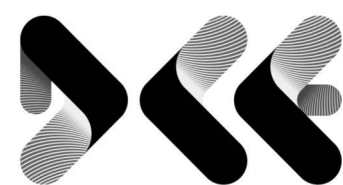


merrifield
MAB gpc

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 9
EXISTING FEATURES PLAN

Drawing No. 11729EF01 Rev 1
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