

MERRIFIELD DEVELOPMENT

STAGE 16

DONNYBROOK ROAD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield



CIVIL DRAWINGS

ROAD AND DRAINAGE

DCE REF : 11736RD

AS CONSTRUCTED



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HUME CITY COUNCIL GENERAL NOTES:

1.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE SUPERINTENDENT. THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. ALL WORKS TO BE IN ACCORDANCE WITH AS4000 AMENDED GENERAL CONDITIONS OF CONTRACT AND THE ROAD & DRAINAGE SPECIFICATION.
2.

COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRE-COMMENCEMENT 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 PRE-COMMENCEMENT 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 COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
5.

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 MPA MANUAL AND 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 UNLESS SPECIFIED OTHERWISE.
14.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
15.

WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
16.

NO 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 & 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:
90% DROUGHT TOLERANT PERENNIAL RYE
10% KIKUYU

NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD OR UNLESS OTHERWISE AGREED.
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. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITH 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
25.

ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC OR RIGID FRC 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 750mm DIA.
26.

WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
27.

ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
28.

ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
29.

AT THE COMPLETION OF ALL WORKS, ALL RUBBISH DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
30.

ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 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 DRAWING SD282.
35.

ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION 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 COUNCIL 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 MINIMUM 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.

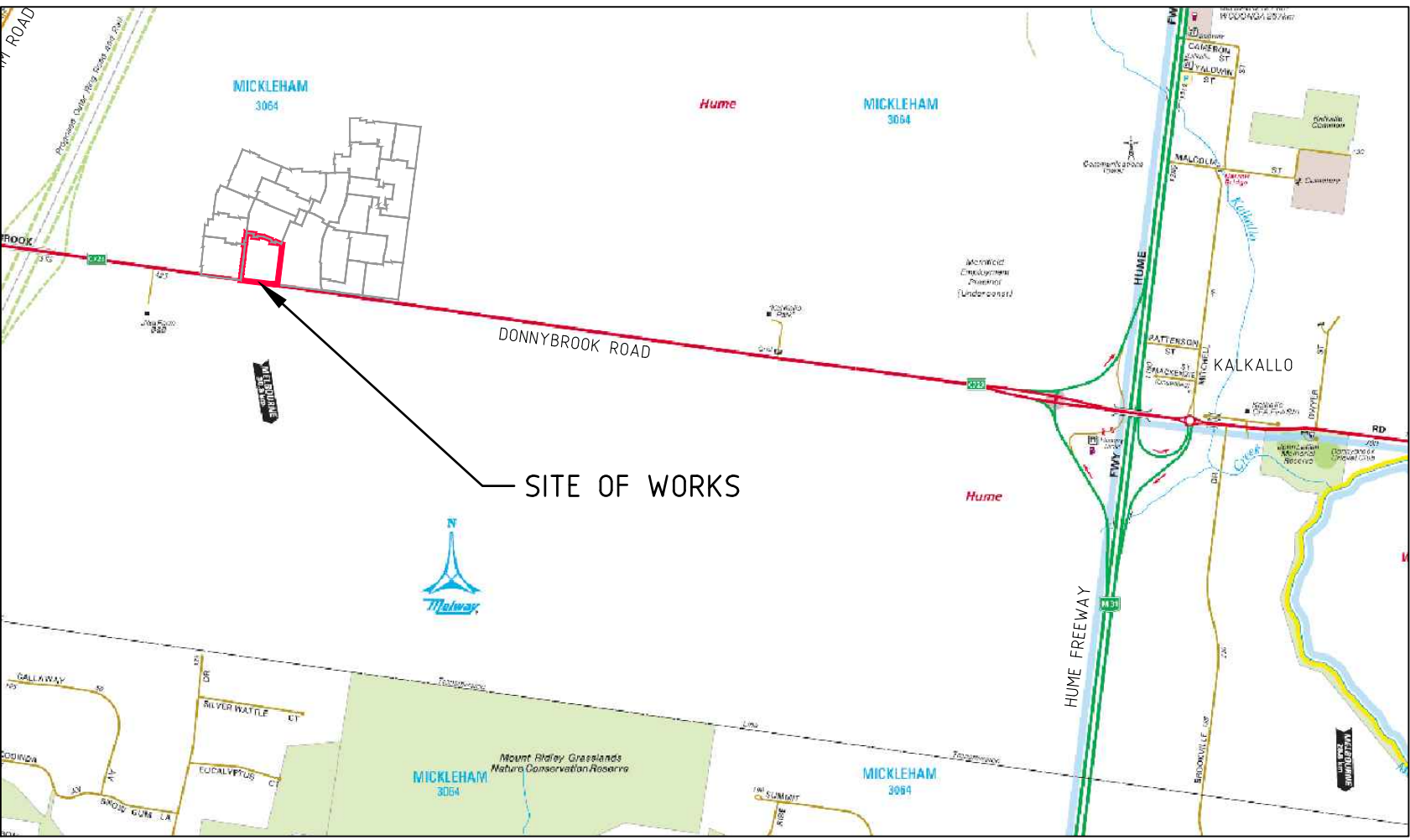
GAS TO BE 50mm DIA. CLASS 12 P.V.C. & WATER CONDUITS TO BE 100 DIA. CLASS 12 P.V.C. SINGLE CONDUIT CONTAINING BOTH DW & NDW SERVICES LAID IN ACCORDANCE WITH WSA 03-2002 DUAL WATER SUPPLY SYSTEM STANDARD DRAWING WAT-1806-V
24.

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
26.

CROSSOVERS TO COMPLY WITH WYNDHAM CITY COUNCIL STANDARD DRAWING SD4-1 (EXCLUDING TABLE 1).
27.

STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES WHERE POSSIBLE.



LOCALITY PLAN

MELWAY REF MAP: 366 D3,E4
NTS

DRAWING INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
01	11736TD01	LOCALITY PLAN, INDEX AND NOTES
02	11736TD02	TYPICAL SECTIONS AND DETAILS
03	11736SP01	STAGING PLAN
04	11736DP01	DETAIL PLAN
05	11736SOP01	SETOUT DETAILS
06-07	11736ID01-02	INTERSECTION DETAILS - SHEETS 01 TO 02
08-09	11736LS01-02	LONGITUDINAL SECTIONS - SHEETS 01 TO 02
10-14	11736XS01-05	CROSS SECTIONS - SHEETS 01 TO 05
15-16	11736DR01-02	DRAINAGE LONGITUDINAL SECTIONS - SHEETS 01 TO 02
17	11736DR03	DRAINAGE PIT SCHEDULE
18	11736POS01	PLAN OF SUBDIVISION
19	11736FP01	FILL PLAN
20	11736EW01	EARTHWORKS PLAN
21	11736EF01	EXISTING FEATURES PLAN

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Date/Time: Thu Sep 08, 2016 - 3:01pm --byronashade--

1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL
REV	AMENDMENTS	DATE	APP'D

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541228
Verified S.LEA
Date 17/06/15
AN 1081814
Audited T.OBOUHOFF
Date 24/02/16
AN 912952
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885325

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
LOCALITY PLAN, INDEX AND NOTES

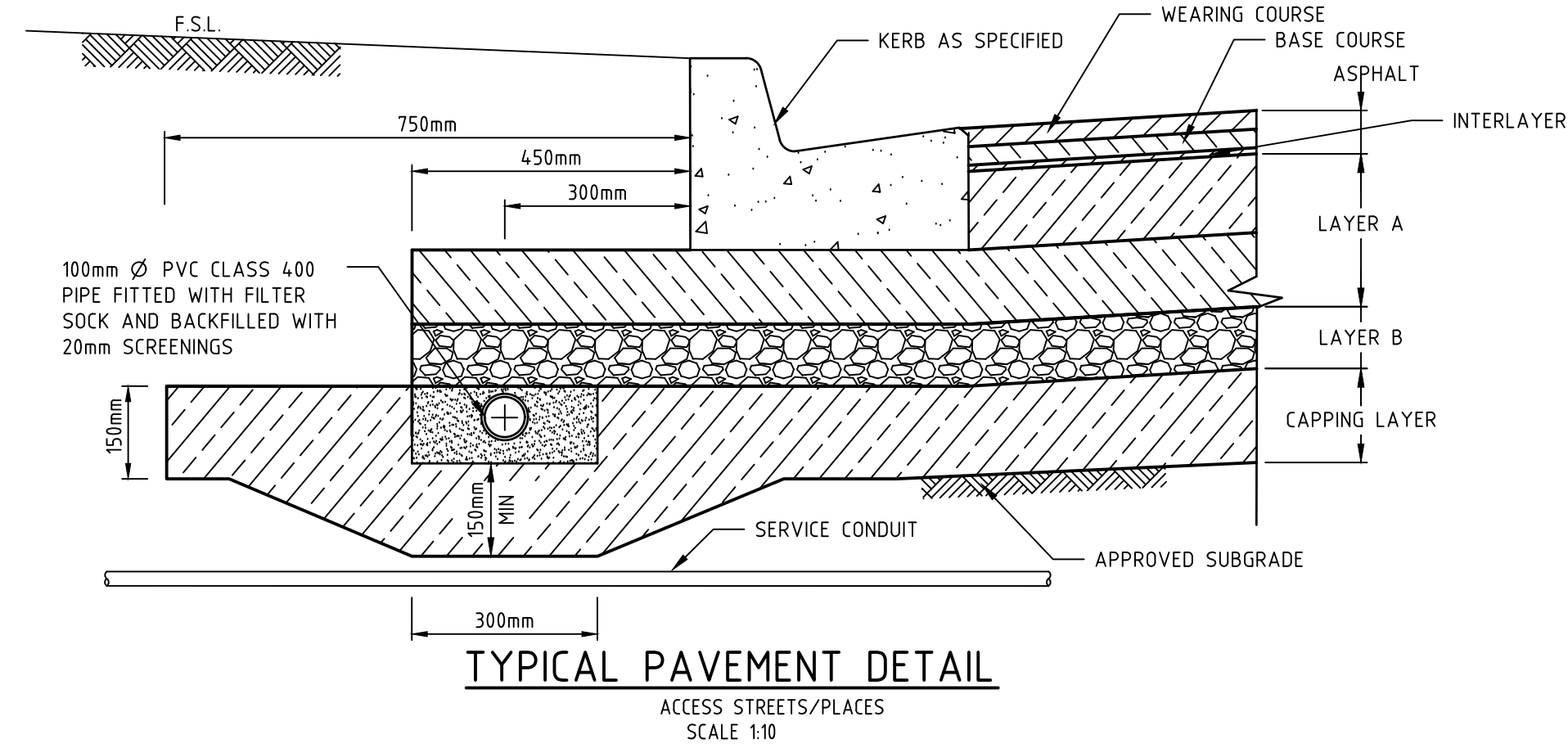
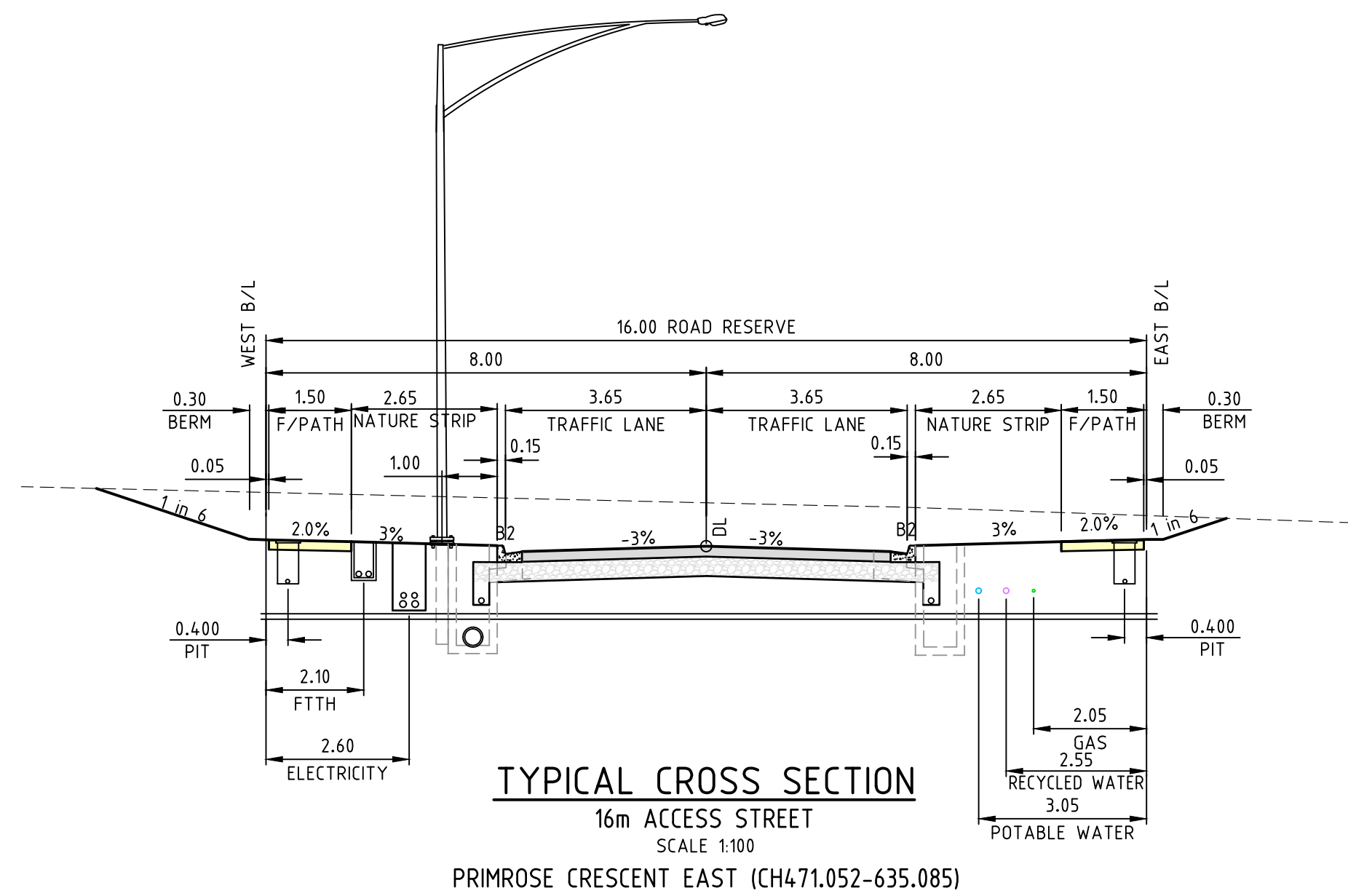
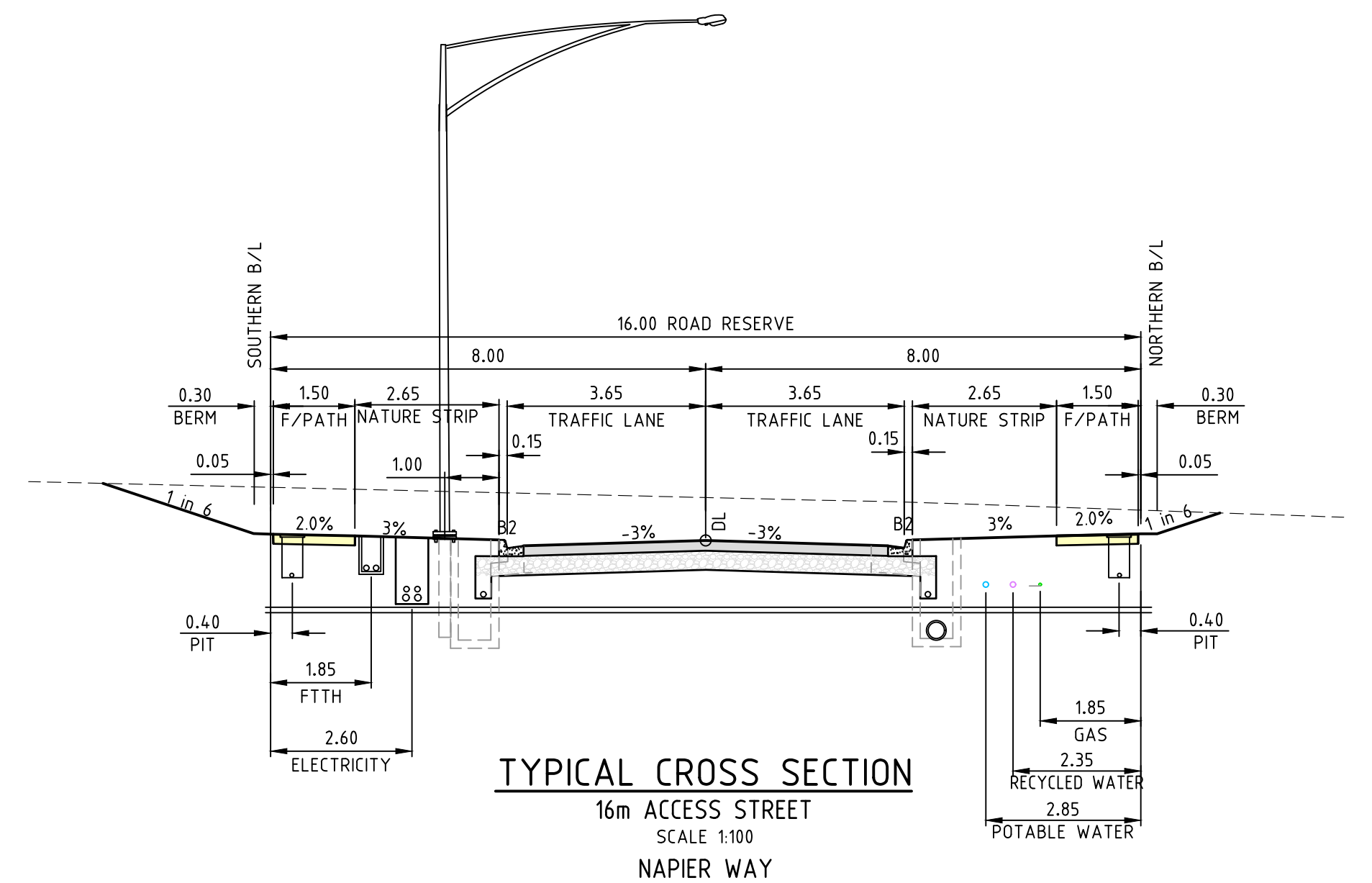
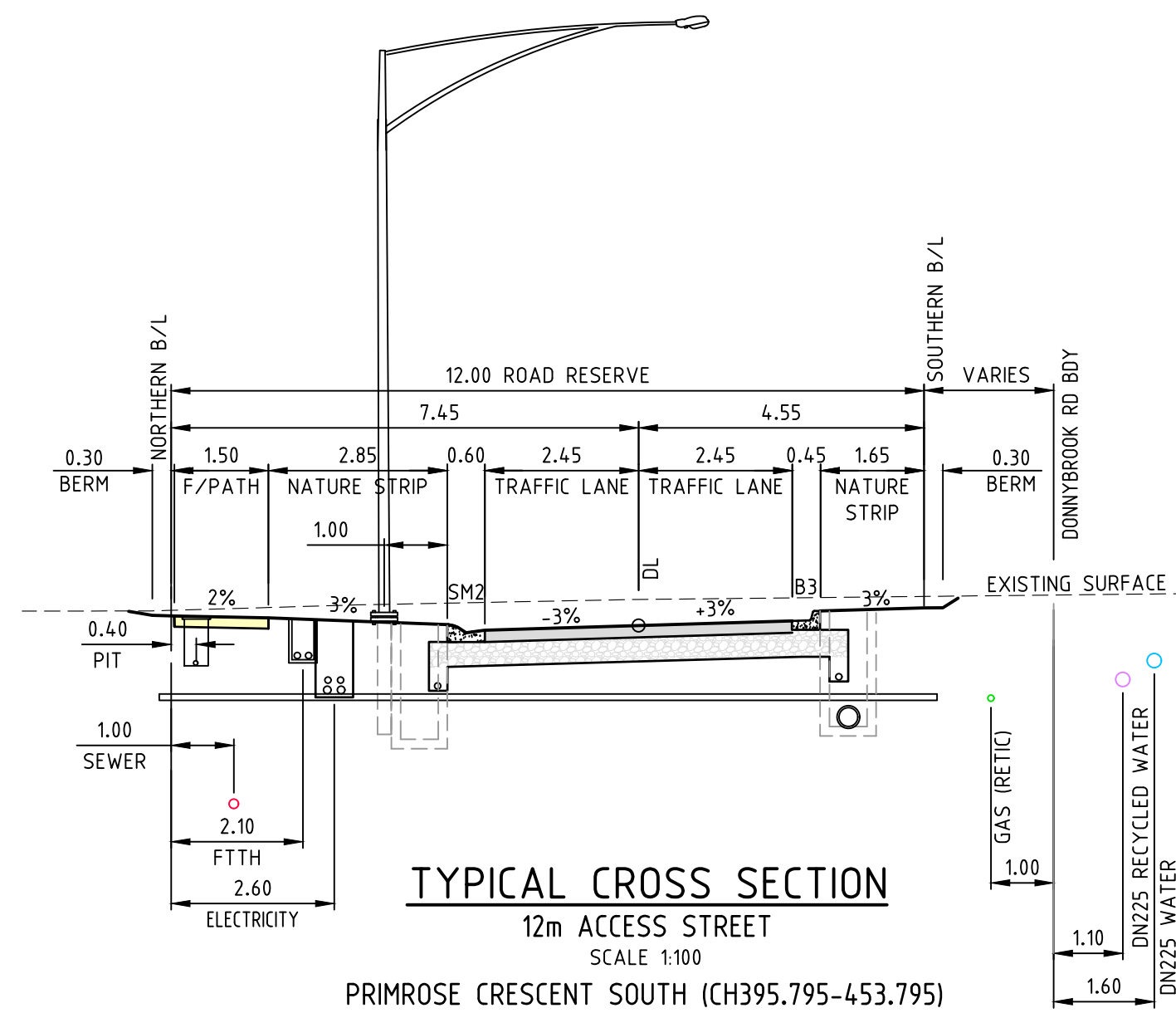
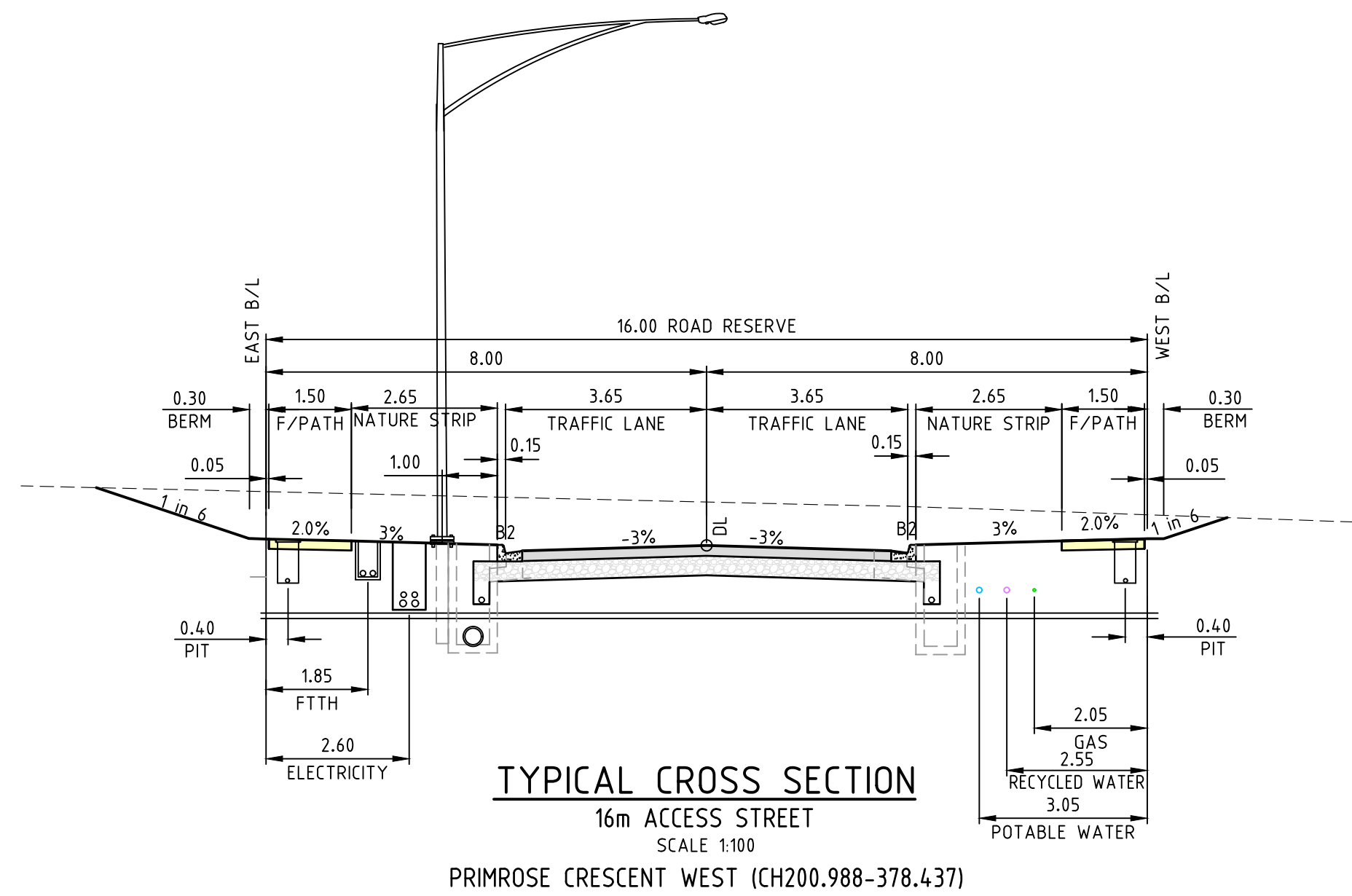
Drawing No. 11736TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED
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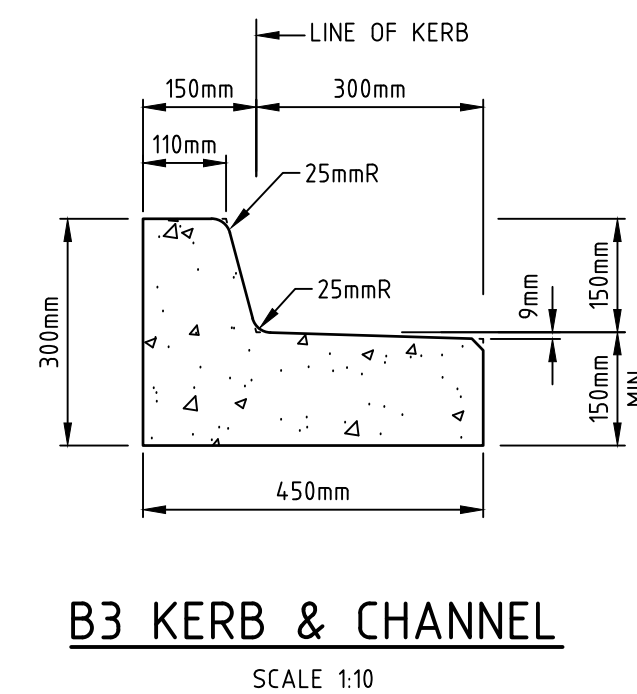
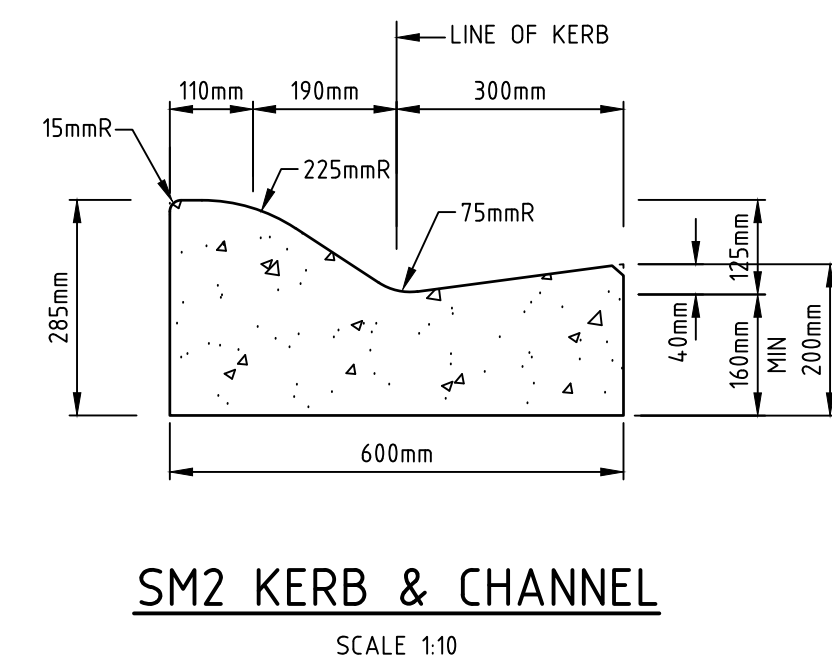
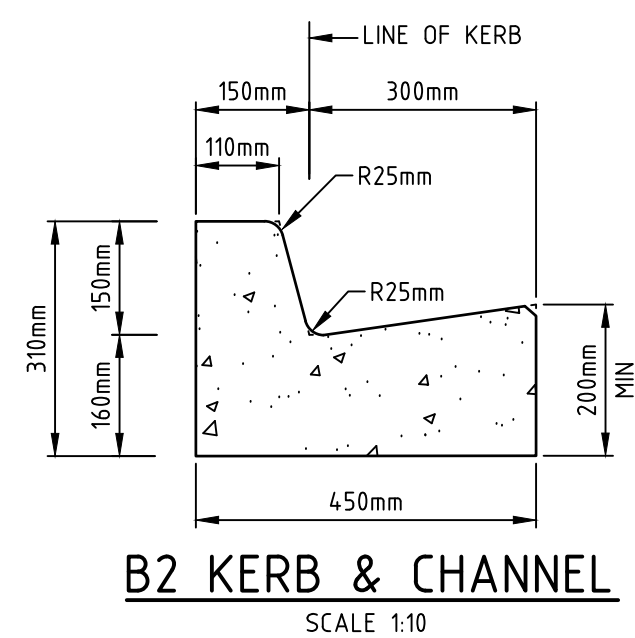
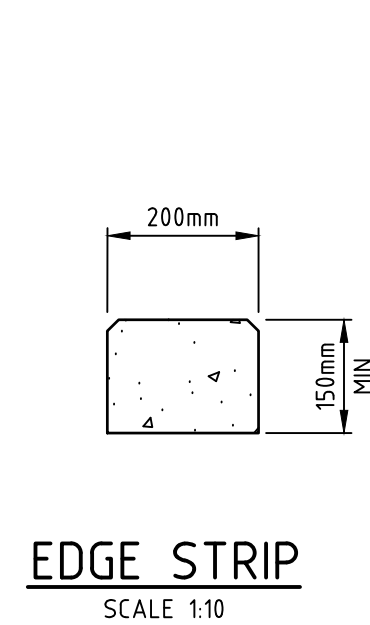
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Date/Time: Thu Sep 08, 2016 - 3:01 pm - ByronShade



ACCESS STREETS / PLACES	
PRIMROSE CRESCENT, ROCKLEY ROAD & NAPIER WAY	
ASPHALT	WEARING COURSE 30mm SIZE 10mm TYPE N ASPHALT BASE COURSE 30mm SIZE 10mm TYPE N ASPHALT INTERLAYER 10mm SAMI TREATMENT PRIME UNDERLAID WITH BITUMINOUS PRIME SPRAY
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	570mm
SUBGRADE	SUBGRADE CBR ≥ 2%

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

NOTE: SHOULD THE SUBGRADE BE SOFT OR ROCKY MATERIAL, SUBGRADE
IMPROVEMENT IS REQUIRED WHERE THE SUBGRADE IS TO BE FURTHER
EXCAVATED AND THE DEPTH TO BE AT THE DISCRETION OF THE CONTRACTOR
AND BROUGHT BACK UP TO SUBGRADE LEVEL IN A UNIFORM LAYER FOR THE
COUNCIL SUPERVISOR TO INSPECT AS A HOLD POINT.



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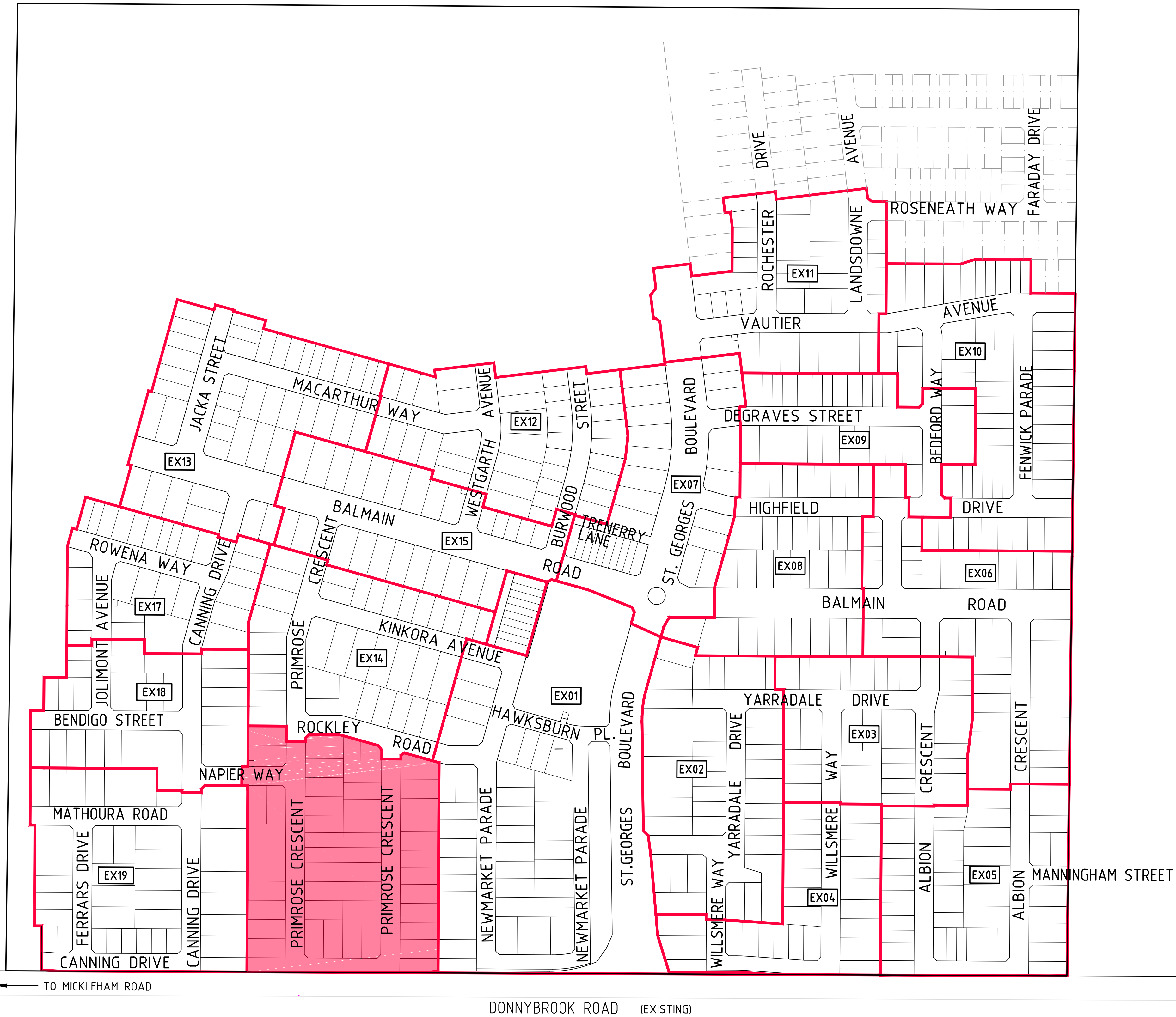
AS CONSTRUCTED

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

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 16
TYPICAL SECTIONS AND DETAILS
Drawing No. 11736TD02 Rev 1
Sheet No. 02 AS CONSTRUCTED
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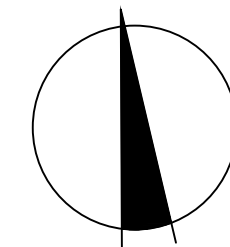


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Date 24/02/16
AN 885327

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

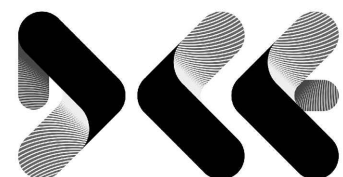


merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:2000 0m 20m 40m 80m 120m
Scale @ A1/A3 1:2000/1:4000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
STAGING PLAN

Drawing No. 11736SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED
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Drawing File: C:\Users\paul\1700\11736-MERRIFIELD - Prelim 1 - Stage 16\Ascd\16\11736DP01.dwg - 11736DP01
Date/Time: Thu Sep 08, 2016 - 3:02pm - ByronShade

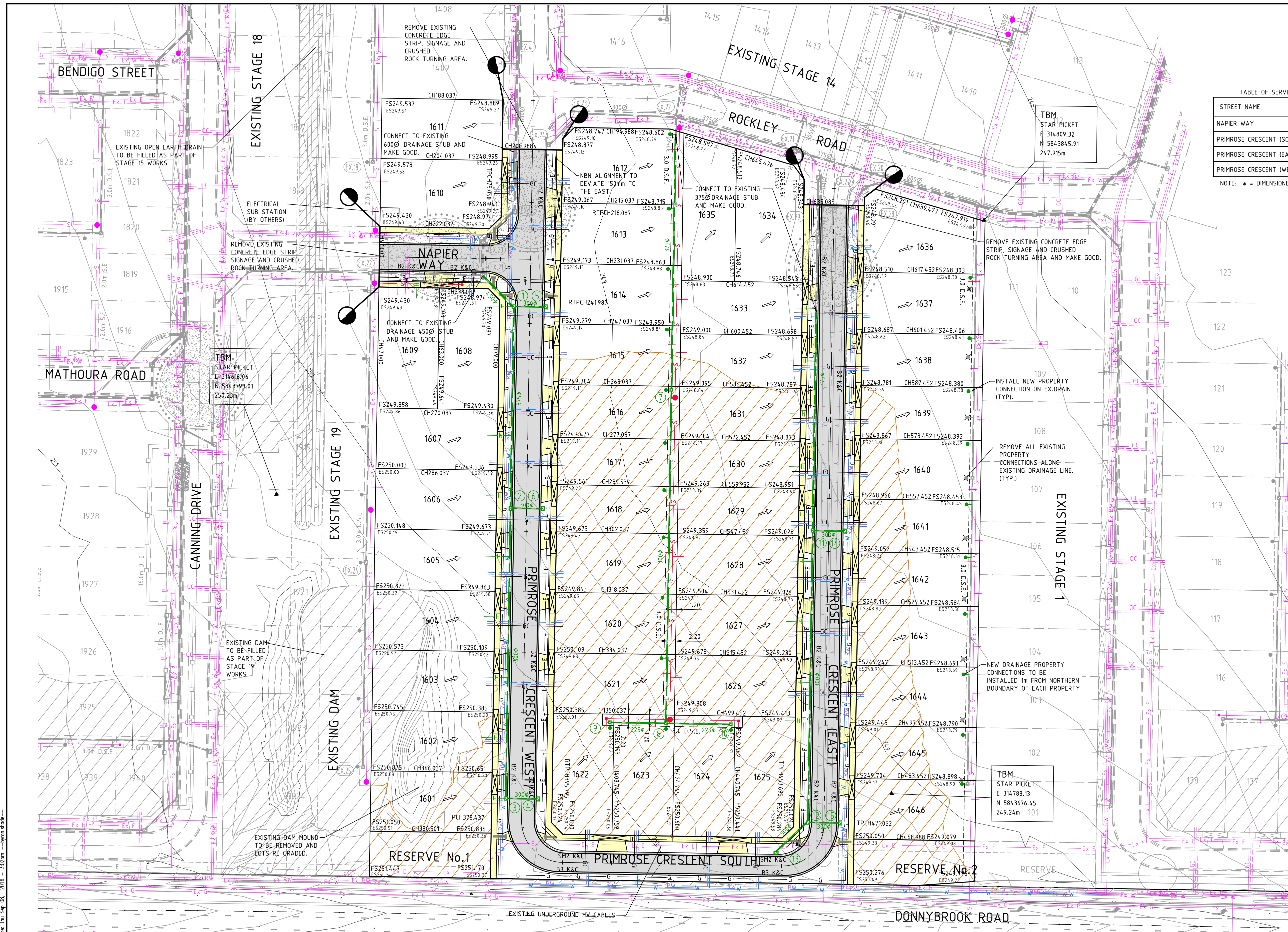


TABLE OF SERVICES LOCATIONS							
STREET NAME	WATER	ND-WATER	GAS	TELSTRA	ELEC.	POLES	BOK
NAPIER WAY	2.85 N	2.35 N	1.85 N	2.10 S	2.60 S	-	4.20
PRIMROSE CRESCENT (SOUTH)	1.60 S	1.10 S	1.00 S	1.00 N	2.60 N	-	4.40 & 1.65
PRIMROSE CRESCENT (EAST)	3.05 E	2.55 E	2.05 E	2.10 W	2.60 W	-	4.20
PRIMROSE CRESCENT (WEST)	3.05 W	2.55 W	2.05 W	1.85 E	2.60 E	-	4.20

NOTE: * = DIMENSIONED TOWARDS DONNYBROOK ROAD

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.

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!
EXISTING UNDERGROUND HIGH VOLTAGE ELECTRICAL CABLES ARE IN THE VICINITY OF WORKS. THE CONTRACTOR IS TO CONFIRM THE DEPTHS OF THESE SERVICES WITH THE ENGINEERING SUPERVISOR PRIOR TO WORKS COMMENCING.

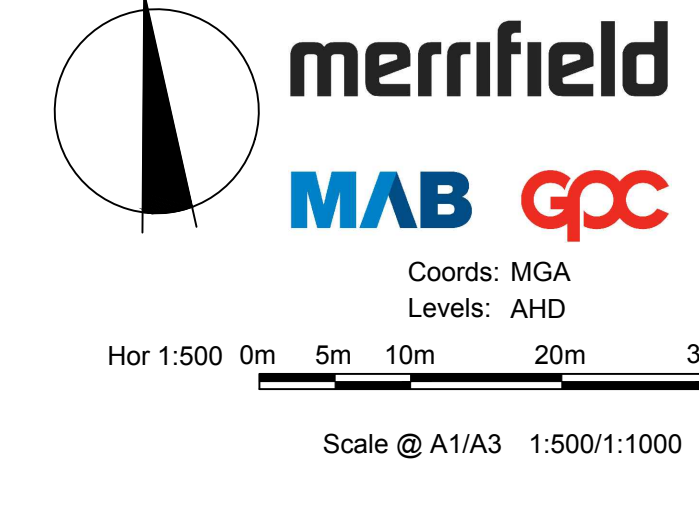
AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
3	AS CONSTRUCTED	08/09/16	TL
2	PRIMROSE CRES GAS MAIN REALIGNED	23/03/16	TL
1	STAGE 19 GAS MAIN REALIGNED	09/03/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

Drawn K.PAGE Date 10/06/15 AN 1511018 Designed N.MIRATANA Date 09/06/15 AN 1541231 Verified S.LEA Date 17/06/15 AN 1081817 Audited T.OBOUHOFF Date 24/02/16 AN 912955 Approved T.LIAKOPOULOS Date 24/02/16 AN 885328	10/06/15 AN 1511018 09/06/15 AN 1541231 17/06/15 AN 1081817 24/02/16 AN 912955 24/02/16 AN 885328
--	--

- LEGEND**
- EXISTING WATER MAIN
 - EXISTING GAS MAIN
 - EXISTING ELECTRICAL CABLE
 - EXISTING SEWER MAIN & MANHOLE
 - EXISTING TELECOMM. CABLE AND PIT
 - EXISTING ELEC. POLE & O'HEAD LINES
 - 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

- WATER
RECYCLED WATER
TELECOMMUNICATIONS
ELECTRICITY
GAS
STREET NAME SIGN
REGRADE LOT AT MIN 1 IN 150
ASPHALT PAVEMENT
CONC FOOTPATH / DRIVEWAY
LIMIT OF WORKS
FINISHED SURFACE CONTOUR
FILLING OVER 200mm

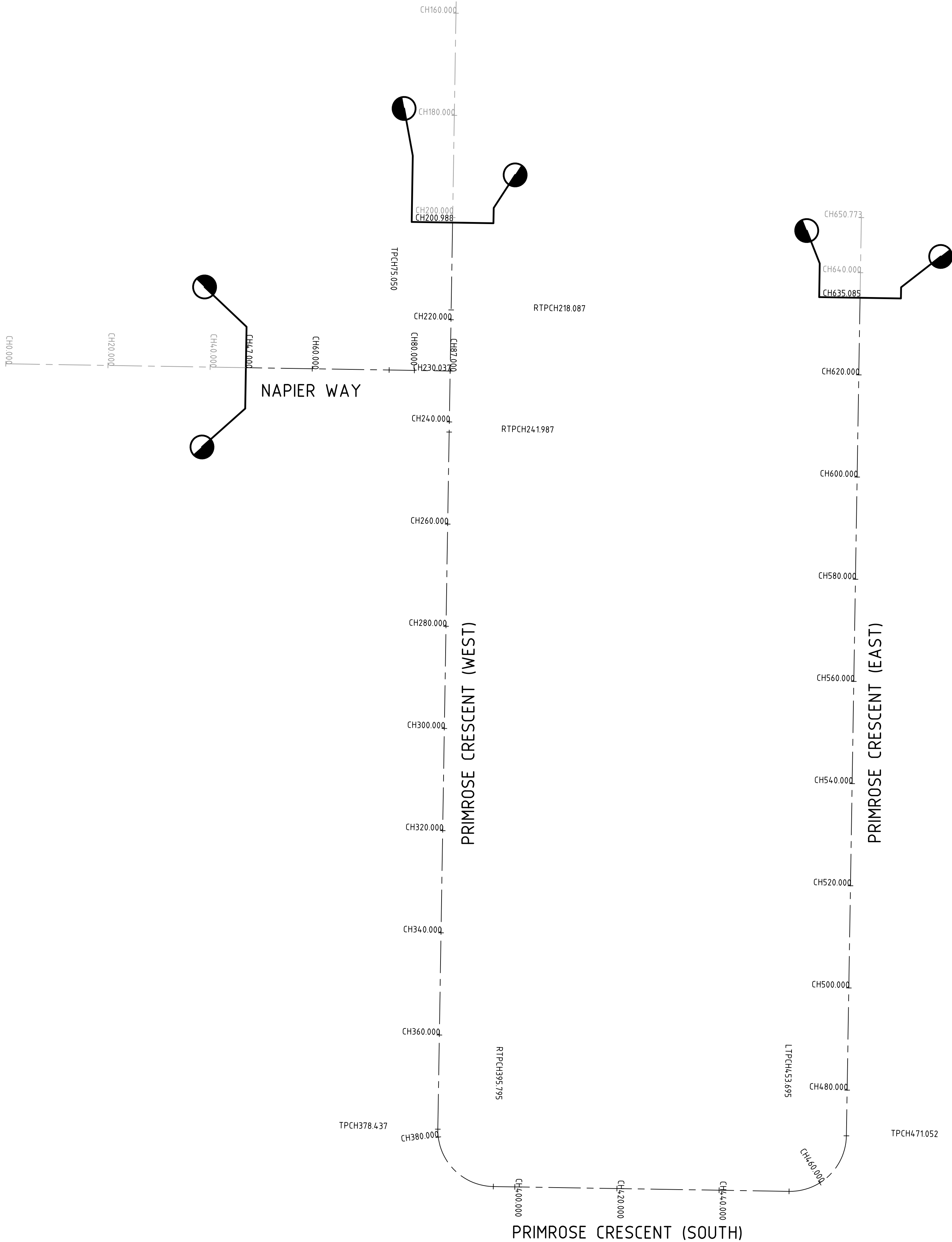


MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
DETAIL PLAN

Drawing No. 11736DP01 Rev 3
Sheet No. 04 AS CONSTRUCTED
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Date/Time: Thu Sep 08, 2016 - 3:02pm --byronashode--



HORIZONTAL ALIGNMENT REPORT FOR PRIMROSE CRESCENT

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
STRAIGHT	140.000	314700.578	5843937.023	248.452	187°03'10.00"	
STRAIGHT	160.000	314698.122	5843917.175	248.584	187°03'10.00"	
STRAIGHT	180.000	314695.666	5843897.326	248.716	187°03'10.00"	
STRAIGHT	200.000	314693.211	5843877.477	248.848	187°03'10.00"	
STRAIGHT	220.000	314690.755	5843857.629	248.980	187°03'10.00"	
STRAIGHT	240.000	314688.299	5843837.780	249.112	187°03'10.00"	
STRAIGHT	260.000	314685.844	5843817.931	249.244	187°03'10.00"	
STRAIGHT	280.000	314683.388	5843798.083	249.376	187°03'10.00"	
STRAIGHT	300.000	314680.932	5843778.234	249.532	187°03'10.00"	
STRAIGHT	320.000	314678.477	5843758.385	249.770	187°03'10.00"	
STRAIGHT	340.000	314676.021	5843738.537	250.091	187°03'10.00"	
STRAIGHT	360.000	314673.565	5843718.688	250.436	187°03'10.00"	
TANGENT-CURVE	378.437	314671.301	5843700.390	250.662	187°03'10.00"	
CURVE	380.000	314671.220	5843698.831	250.672	178°57'00.15"	-11.050
CURVE	382.857	314671.639	5843696.013	250.688	164°08'07.29"	-11.050
CURVE	385.714	314672.764	5843693.395	250.700	149°19'14.44"	-11.050
CURVE	388.571	314674.522	5843691.153	250.707	134°30'21.59"	-11.050
CURVE	391.429	314676.794	5843689.434	250.710	119°41'28.74"	-11.050
CURVE	394.286	314679.431	5843688.354	250.708	104°52'35.89"	-11.050
CURVE-TANGENT	395.795	314680.911	5843688.067	250.705	97°03'10.00"	-11.050
STRAIGHT	400.000	314685.085	5843687.551	250.691	97°03'10.00"	
STRAIGHT	420.000	314704.933	5843685.095	250.519	97°03'10.00"	
STRAIGHT	440.000	314724.782	5843682.639	250.320	97°03'10.00"	
TANGENT-CURVE	453.695	314738.373	5843680.958	250.153	97°03'10.00"	
CURVE	454.286	314738.961	5843680.901	250.144	93°59'16.24"	-11.050
CURVE	457.143	314741.805	5843681.071	250.101	79°10'23.39"	-11.050
CURVE	460.000	314744.511	5843681.963	250.056	64°21'30.53"	-11.050
CURVE	462.857	314746.900	5843683.516	250.007	49°32'37.68"	-11.050
CURVE	465.714	314748.811	5843685.629	249.956	34°43'44.83"	-11.050
CURVE	468.571	314750.119	5843688.160	249.902	19°54'51.98"	-11.050
CURVE-TANGENT	471.052	314750.696	5843690.568	249.853	7°03'10.00"	-11.050
STRAIGHT	480.000	314751.795	5843699.448	249.660	7°03'10.00"	
STRAIGHT	500.000	314754.250	5843719.297	249.284	7°03'10.00"	
STRAIGHT	520.000	314756.706	5843739.145	249.077	7°03'10.00"	
STRAIGHT	540.000	314759.162	5843758.994	248.953	7°03'10.00"	
STRAIGHT	560.000	314761.617	5843778.843	248.830	7°03'10.00"	
STRAIGHT	580.000	314764.073	5843798.691	248.706	7°03'10.00"	
STRAIGHT	600.000	314766.529	5843818.540	248.583	7°03'10.00"	
STRAIGHT	620.000	314768.984	5843838.389	248.361	7°03'10.00"	
STRAIGHT	640.000	314771.440	5843858.237	248.200	7°03'10.00"	
STRAIGHT (END ALN)	650.773	314772.763	5843868.929	248.268	7°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR NAPIER WAY

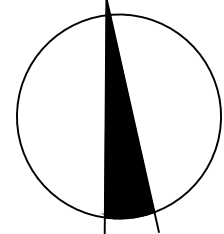
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		EASTING	NORTHING			
STRAIGHT (START ALN)	0.000	314603.181	5843858.350	250.131	97°03'09.91"	
STRAIGHT	20.000	314623.029	5843855.894	249.670	97°03'09.91"	
STRAIGHT	40.000	314642.878	5843853.438	249.403	97°03'09.91"	
STRAIGHT	60.000	314662.727	5843850.983	249.136	97°03'09.91"	
STRAIGHT	80.000	314682.575	5843848.527	248.964	97°03'09.91"	
STRAIGHT (END ALN)	87.000	314689.523	5843847.667	249.046	97°03'09.91"	

1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541232
Verified S.LEA
Date 17/06/15
AN 1061816
Audited T.OBOUHOFF
Date 24/02/16
AN 912956
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885329

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

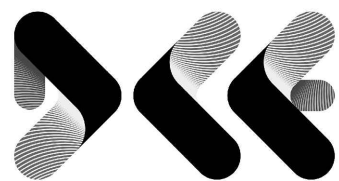


merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
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MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 16
SET OUT DETAILS

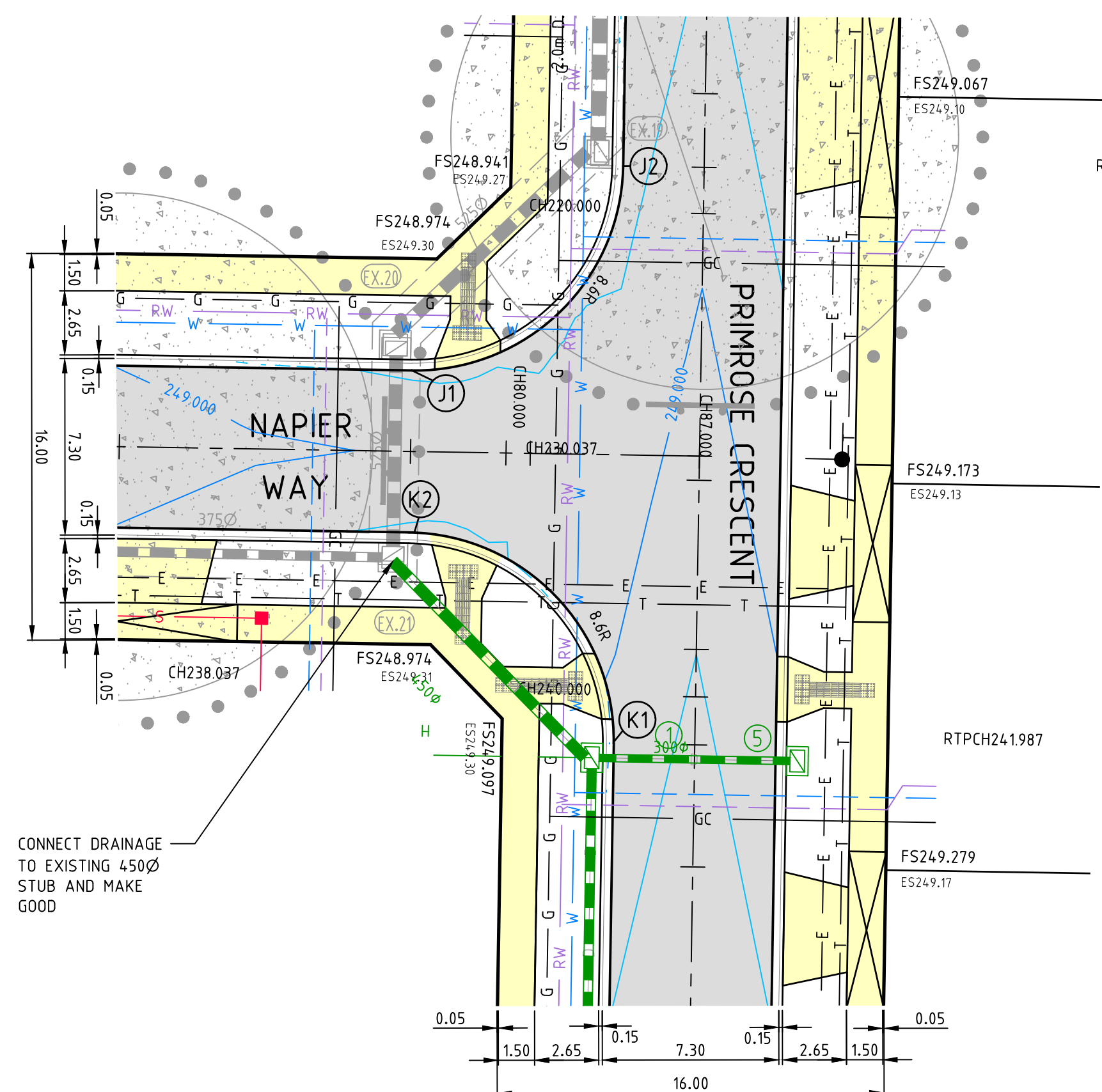
Drawing No. 11736SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED
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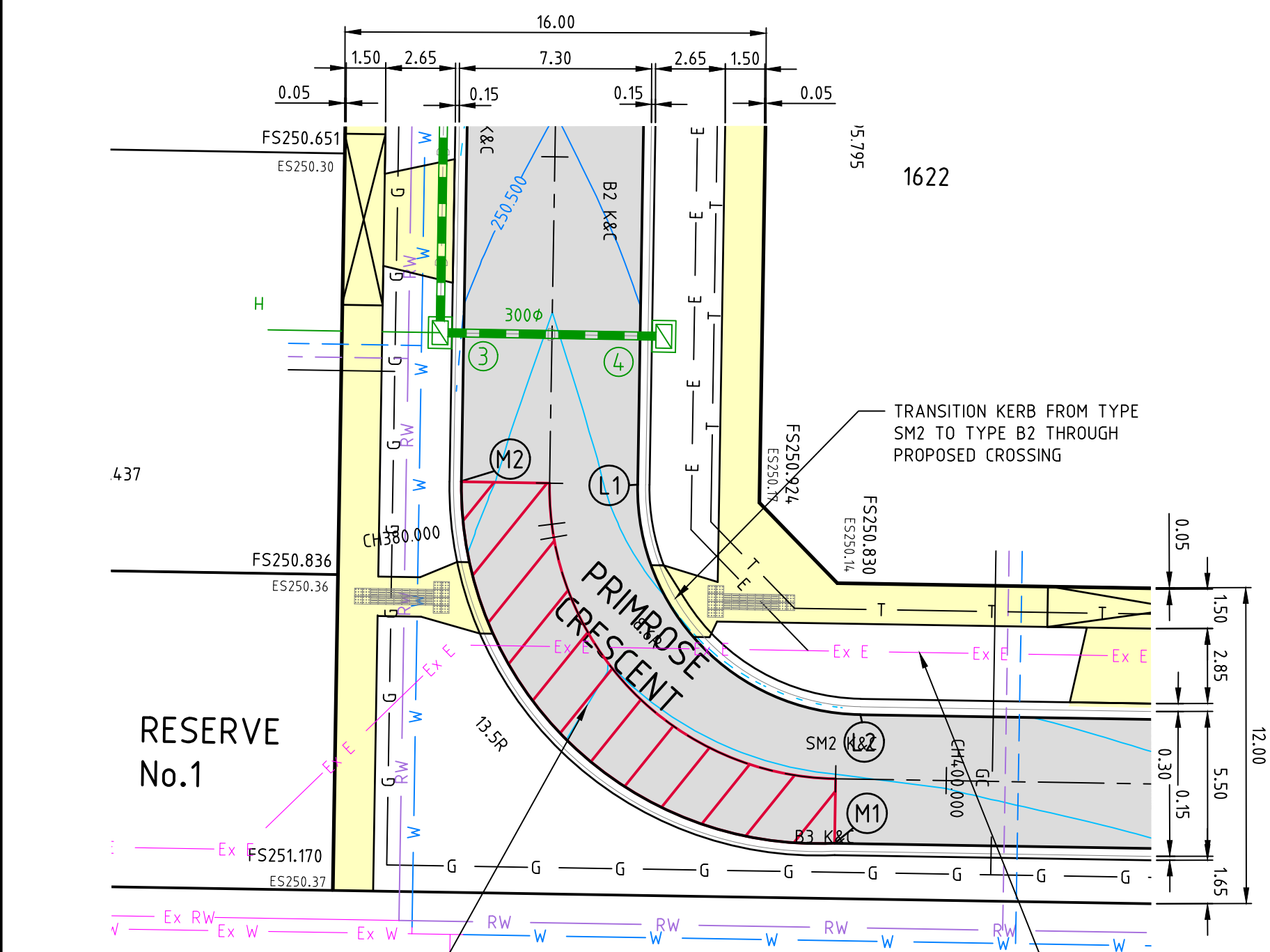


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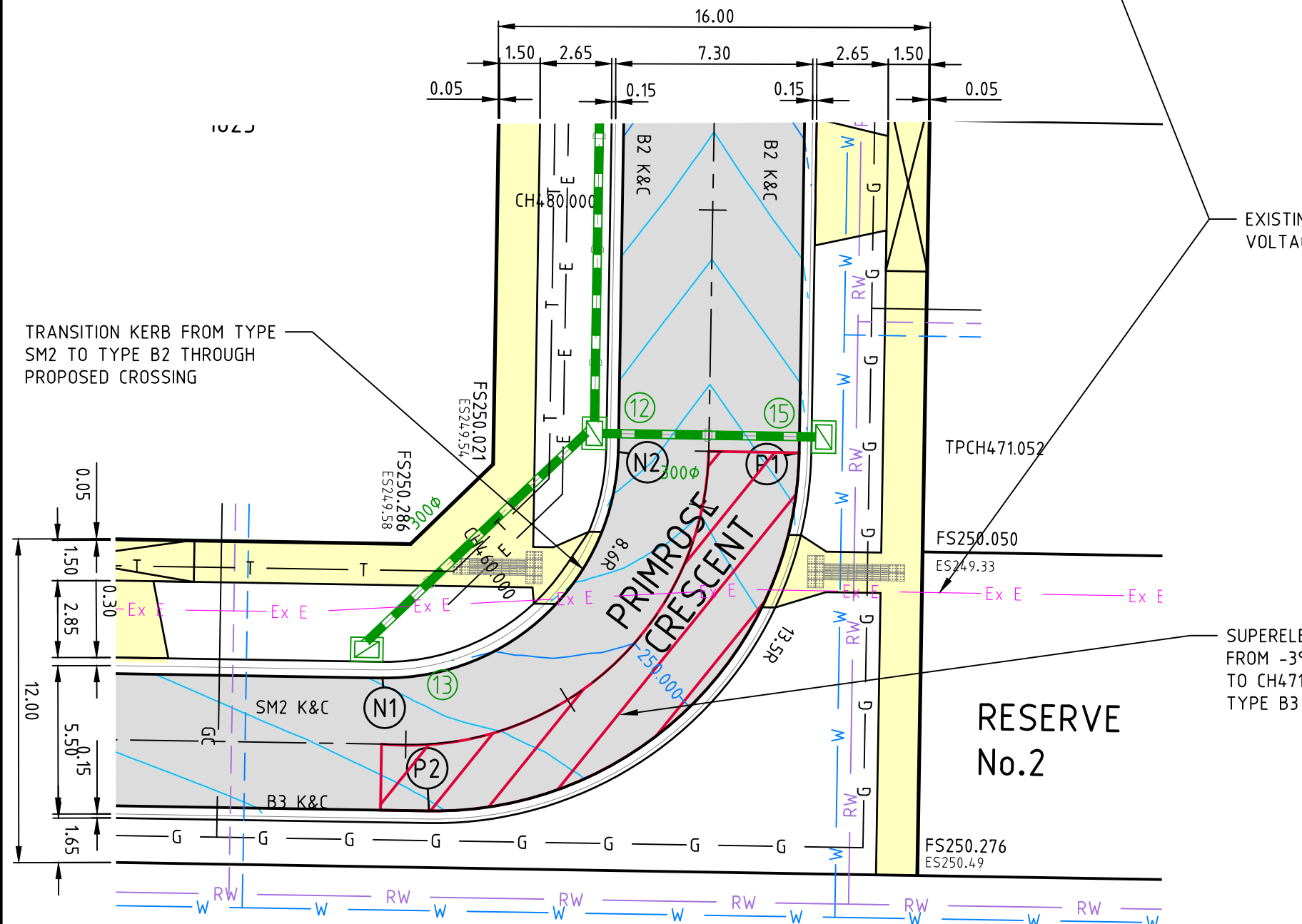
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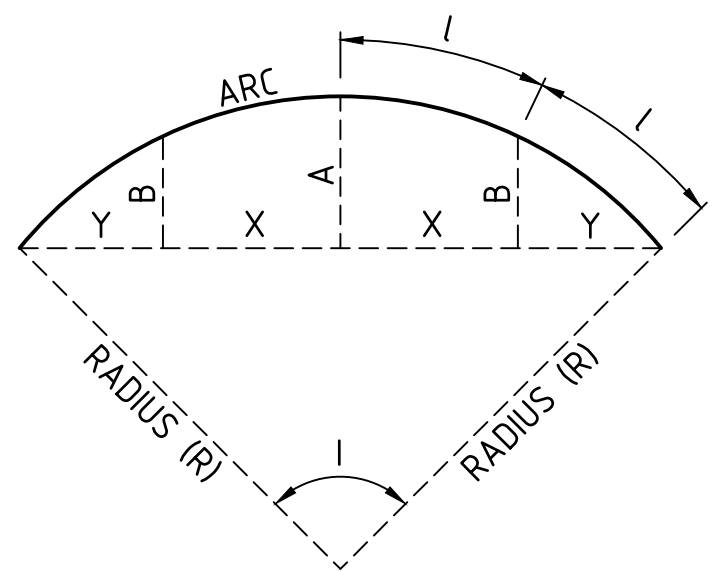


PLAN



DONNYBROOK ROAD

PLAN



LIP SETOUT DETAIL
N.T.S.

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 248

DESIGN SURFACE	250.561	250.586	250.611	250.629
EXISTING SURFACE	250.23	250.22	250.16	250.12
CHAINAGE	0.000	5.000	10.000	13.509

LIP PROFILE L

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 248

DESIGN SURFACE	250.779	250.766	250.713	250.658	250.623	250.591	250.561
EXISTING SURFACE	250.71	250.72	250.38	250.30	250.32	250.32	250.31
CHAINAGE	0.000	2.677	5.000	10.000	15.000	17.677	20.000

LIP PROFILE M

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 248

DESIGN SURFACE	250.092	249.967	249.841	249.753
EXISTING SURFACE	249.62	249.57	249.51	249.46
CHAINAGE	0.000	5.000	10.000	13.509

LIP PROFILE N

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 247

DESIGN SURFACE	249.753	249.787	249.876	249.989	250.093	250.168	250.211
EXISTING SURFACE	249.36	249.37	249.42	249.51	249.90	250.16	250.20
CHAINAGE	0.000	1.357	5.000	10.000	15.000	18.857	20.000

LIP PROFILE P

WARNING!
EXISTING UNDERGROUND HIGH VOLTAGE
ELCTRICAL CABLES ARE IN THE VICINITY OF
WORKS. THE CONTRACTOR IS TO CONFIRM THE
DEPTHS OF THESE SERVICES WITH THE
ENGINEERING SUPERVISOR PRIOR TO WORKS
COMMENCING.

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.

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

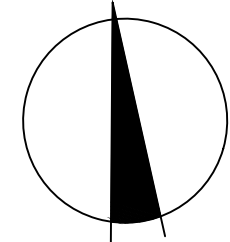
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541234
Verified S.LEA
Date 17/06/15
AN 1081820
Audited T.OBOUHOFF
Date 24/02/16
AN 912958
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885331

— 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 R — EXISTING TREES TO BE REMOVED
— Ex F — EXISTING FINISHED SURFACE LEVEL
— Ex O — EXISTING OPEN EARTH DRAIN (O.E.D.)

LEGEND
— S — 300Ø BRANCH SEWER MAIN
— S — SEWER MAIN AND MANHOLE
— S — STORMWATER DRAIN & PIT
— S — SW DRAIN & PIT CONSTRUCTED
— S — IN PREVIOUS STAGES
— S — PROPERTY INLETS
— S — HOUSE DRAIN
— GC — GAS CONDUIT
— W — WATER CONDUIT
— W — RECYCLED WATER CONDUIT
— TC — TELECOMM. CONDUIT
— P — 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
— D — CONC FOOTPATH / DRIVEWAY
— L — LIMIT OF WORKS
— F — FILLING OVER 300mm
— 155.0 — FINISHED SURFACE CONTOUR



merrifield
MAB gpc

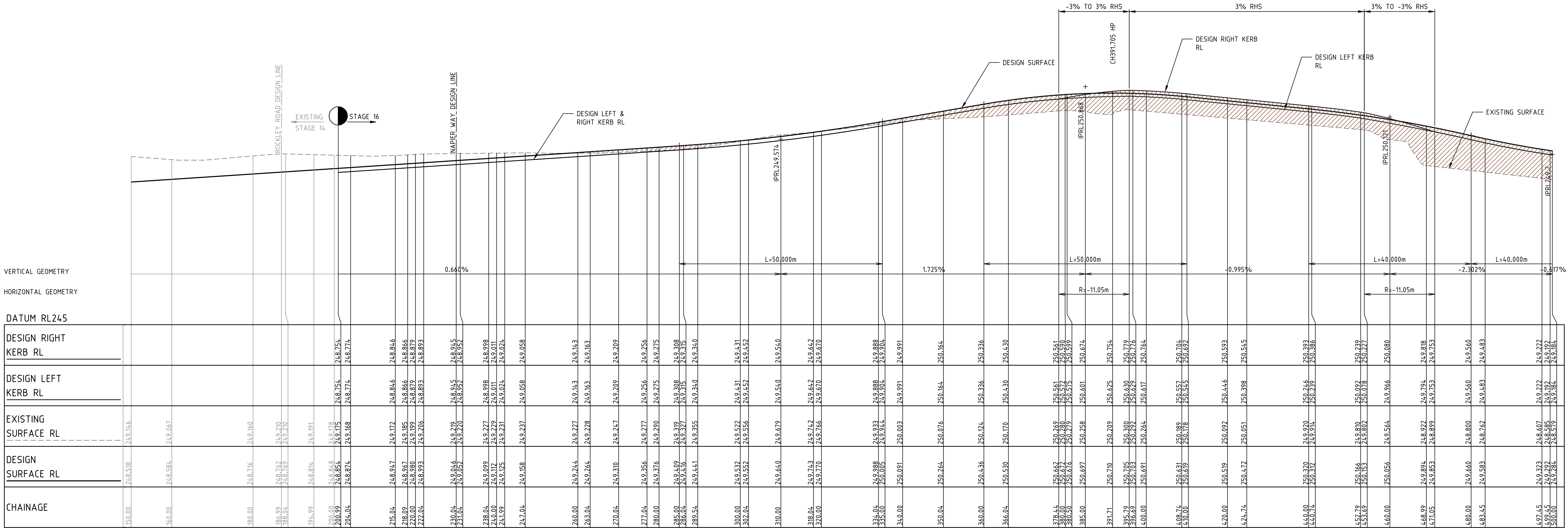
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
INTERSECTION DETAILS
SHEET 02 OF 02
Drawing No. 11736ID02 **Rev 1**
Sheet No. 07 **AS CONSTRUCTED**
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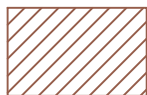
PRIMROSE CRESCENT

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
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0	CONSTRUCTION ISSUE	26/02/16	TL

Drawn K.PAGE
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Designed N.MIRATANA
Date 09/06/15
AN 1541235
Verified S.LEA
Date 17/06/15
AN 1061821
Audited T.OBOUHOFF
Date 24/02/16
AN 912959
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885332

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES, ENGINEERED FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11735TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.



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 16
LONGITUDINAL SECTIONS
SHEET 01 OF 02
Drawing No. 11736LS01 Rev 1
Sheet No. 08 AS CONSTRUCTED
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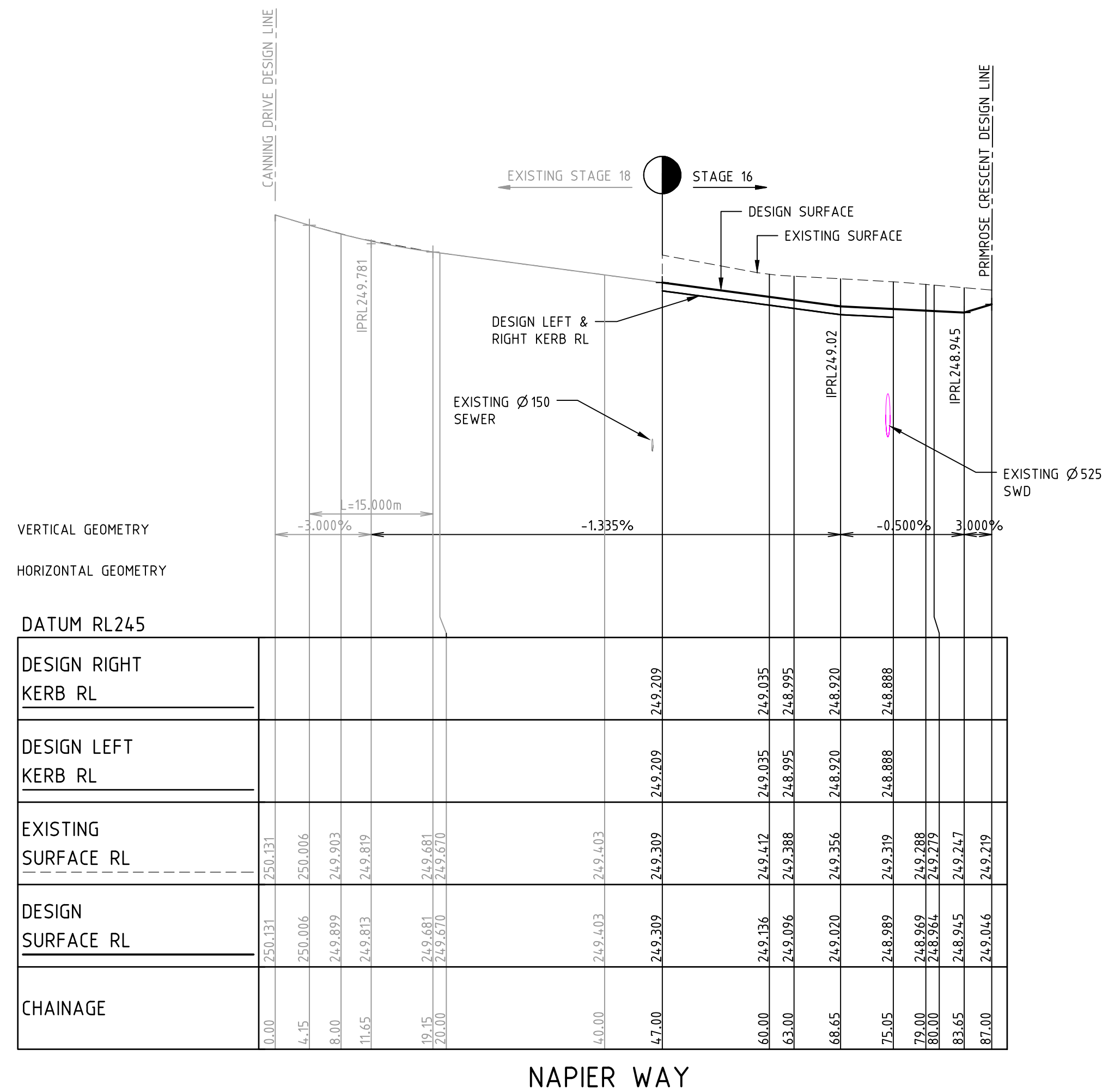
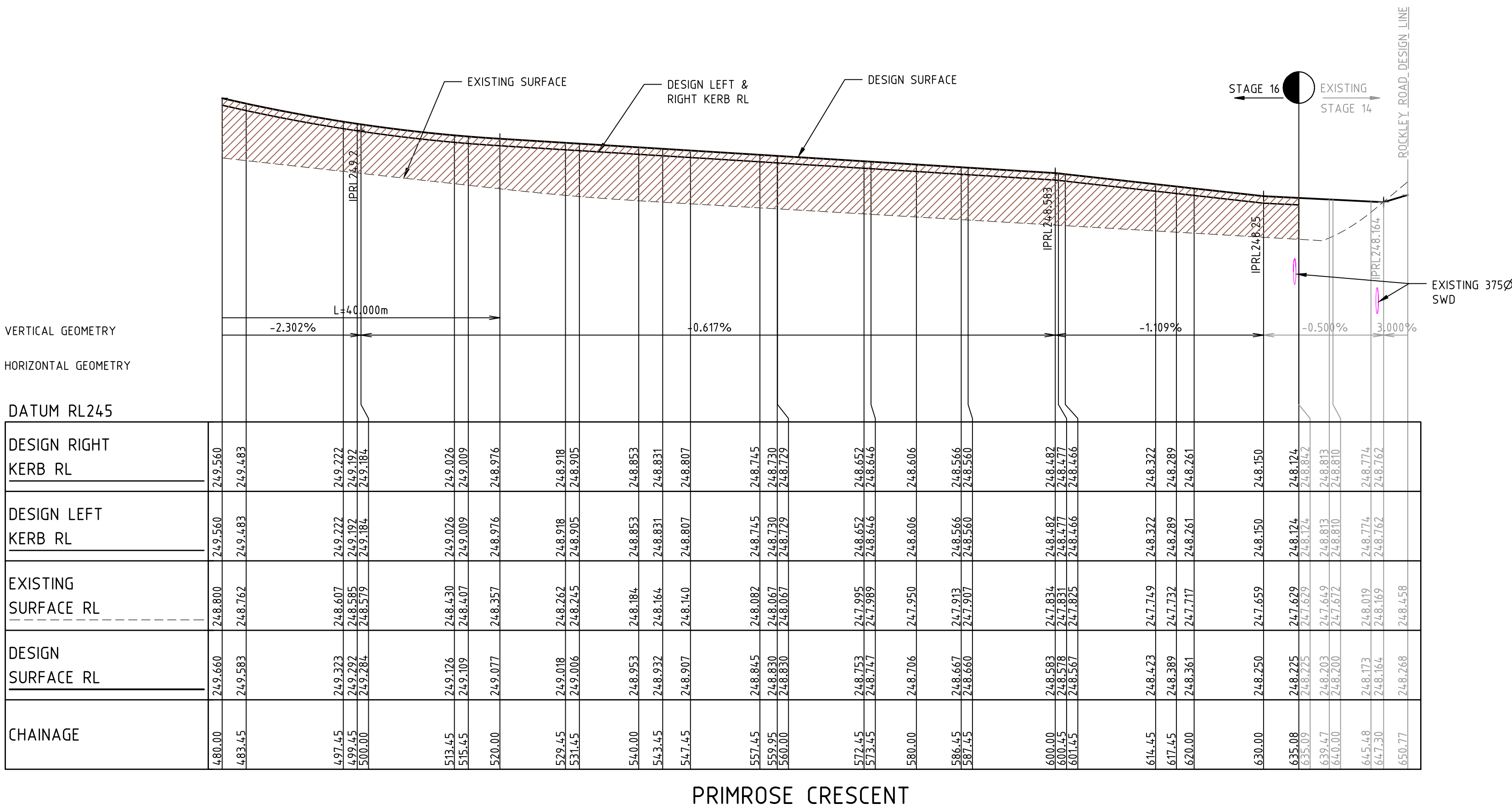
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ABN 78 429 221 049

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Date/Time: Thu Sep 08, 2016 - 3:02pm --byronashode--



AS CONSTRUCTED

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0	CONSTRUCTION ISSUE	26/02/16	TL

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Designed N.MIRATANA
Date 09/06/15
AN 1541236
Verified S.LEA
Date 17/06/15
AN 1061822
Audited T.OBOUHOFF
Date 24/02/16
AN 912960
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885333

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES. ENGINEERED FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11735TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

merrifield
MAB gpc

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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3

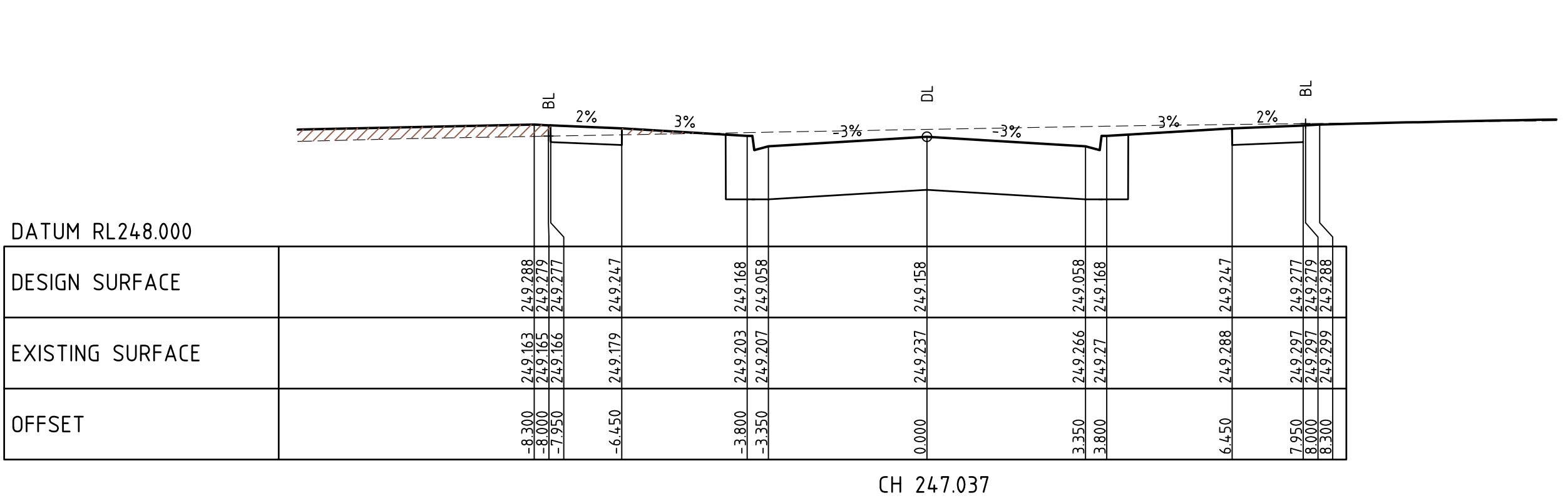
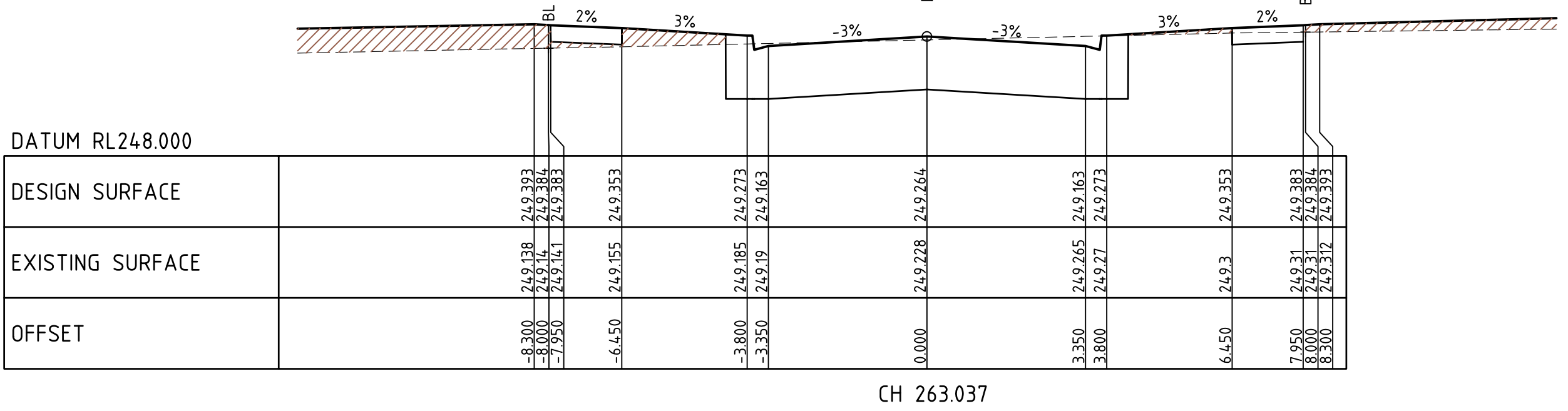
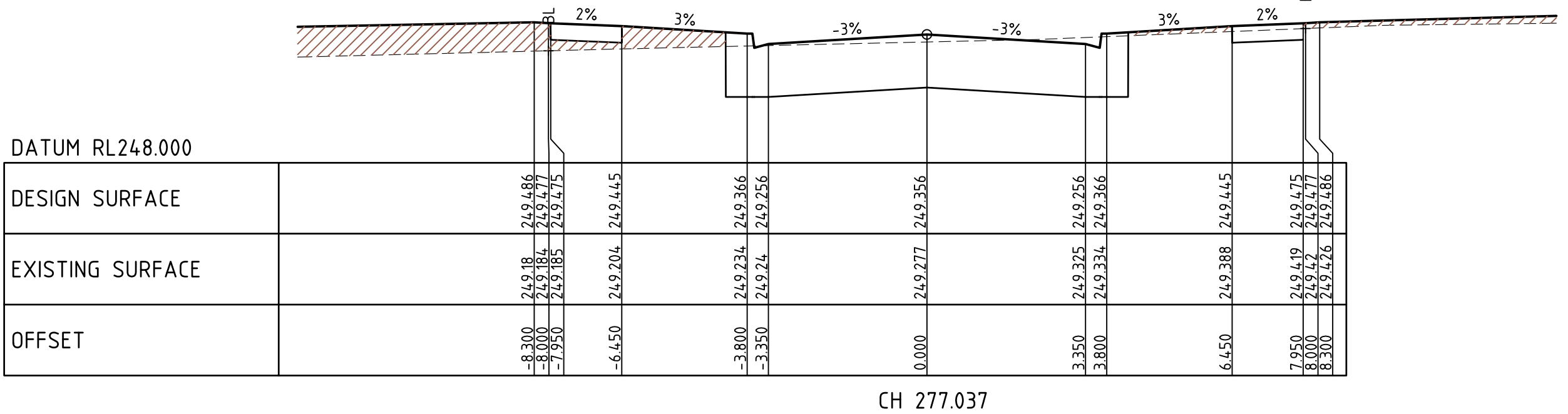
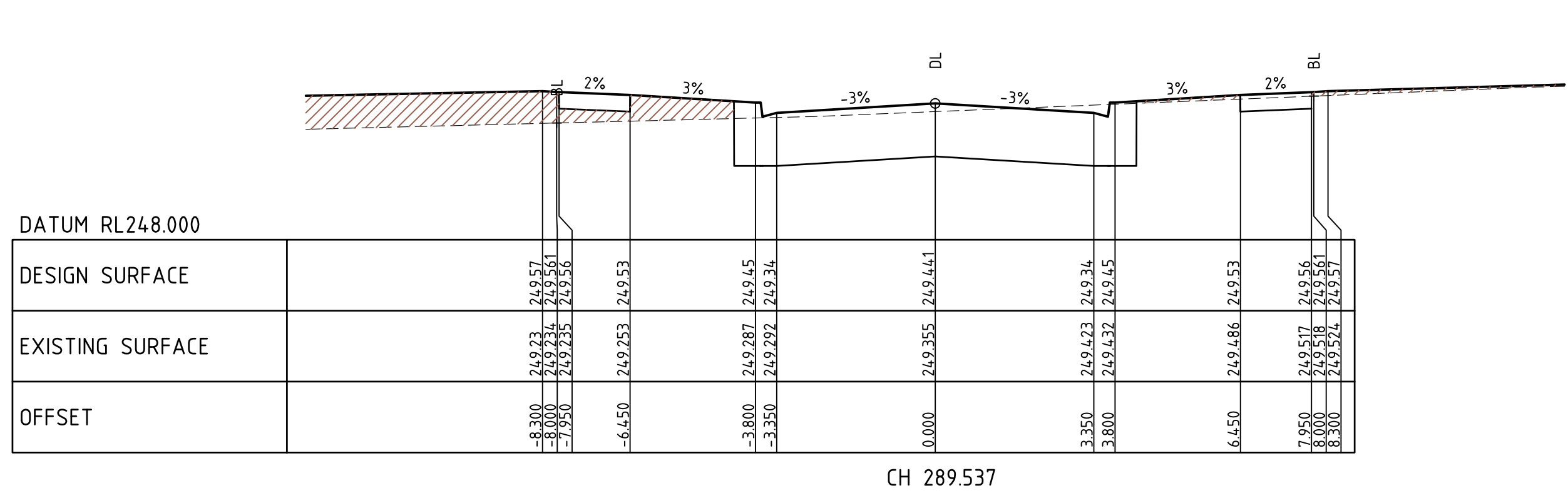
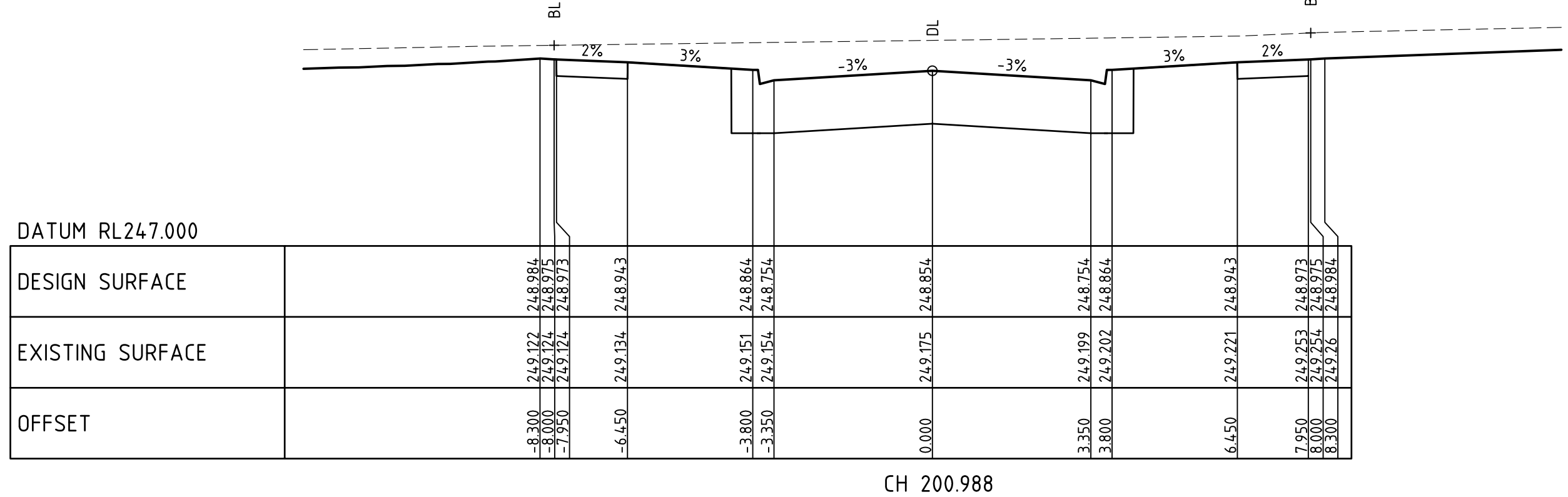
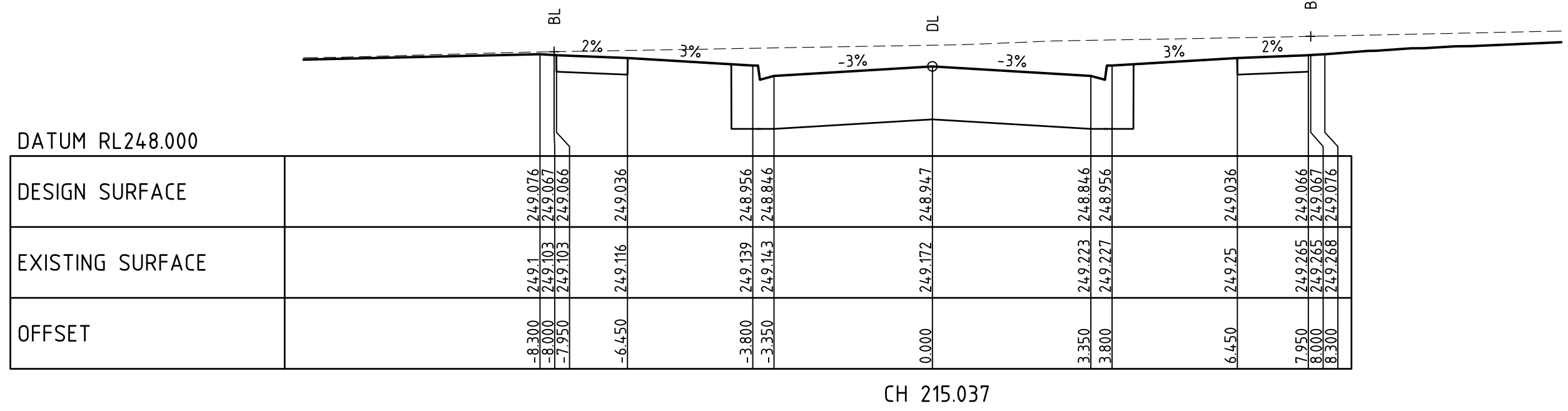
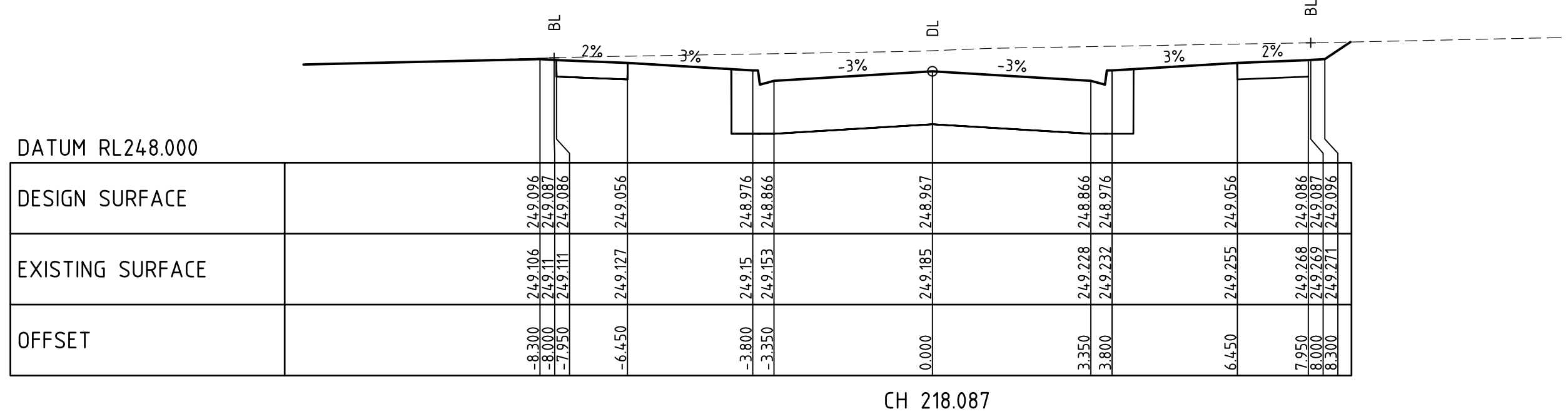
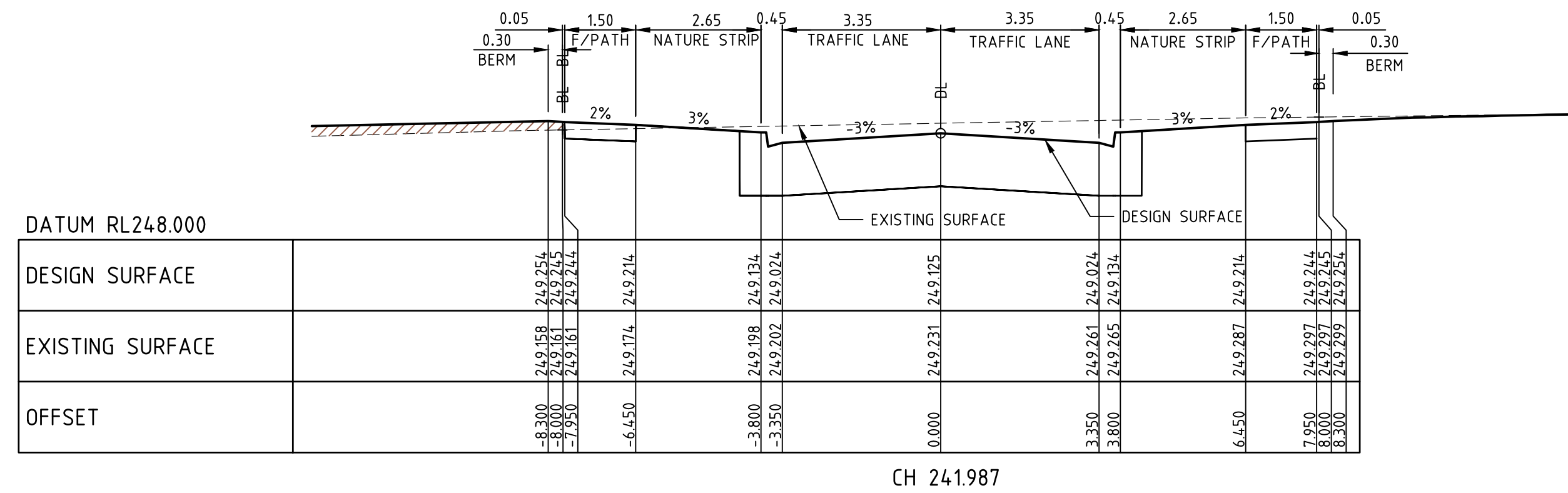
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
LONGITUDINAL SECTIONS
SHEET 02 OF 02
Drawing No. 11736LS02 Rev 1
Sheet No. 09 AS CONSTRUCTED
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Drawing File: G:\Design\11700\11736-MERRIFIELD - Prelim 1 - Stage 16\Acad\RD\11736XS01.dwg - 11736XS01
Date/Time: Thu Sep 08, 2016 - 3:02pm - Byron Ashde



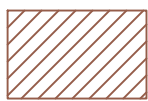
PRIMROSE CRESCENT

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541237
Verified S.LEA
Date 17/06/15
AN 1061823
Audited T.OBOUHOFF
Date 24/02/16
AN 912961
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885334

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES. ENGINEERED FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11735TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
CROSS SECTIONS
SHEET 01 OF 05
Drawing No. 11736XS01 Rev 1
Sheet No. 10 AS CONSTRUCTED
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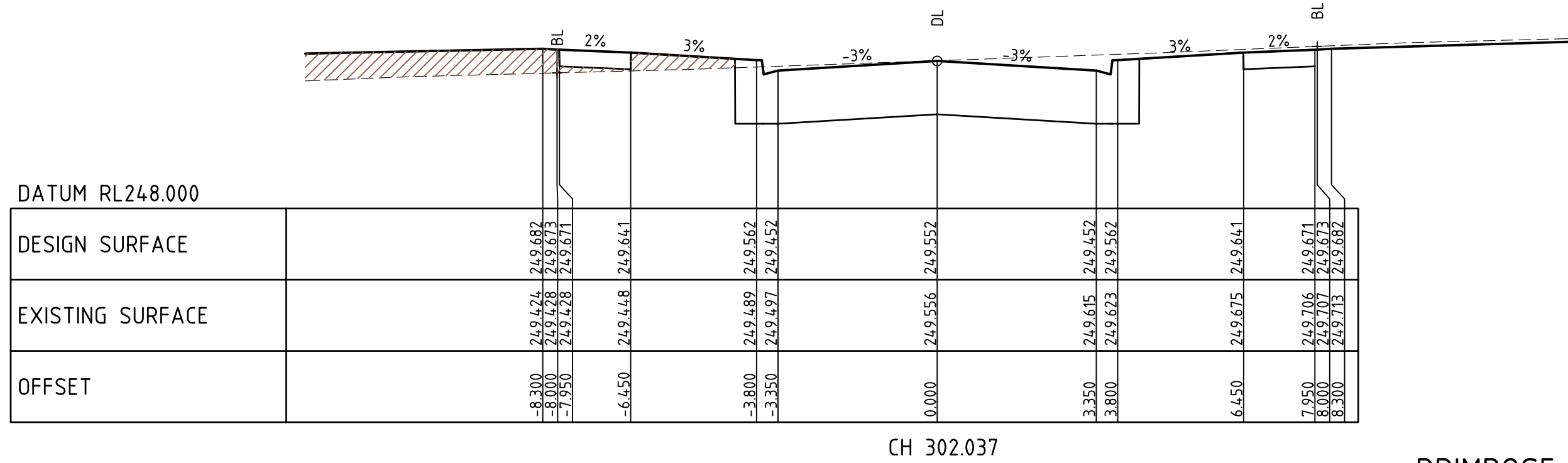
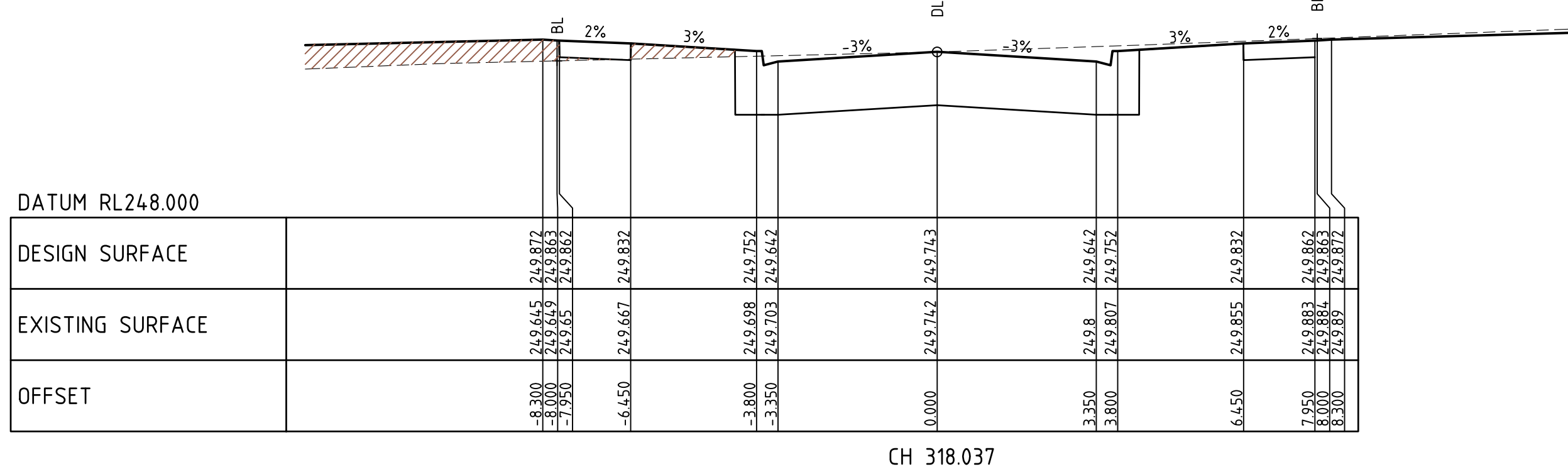
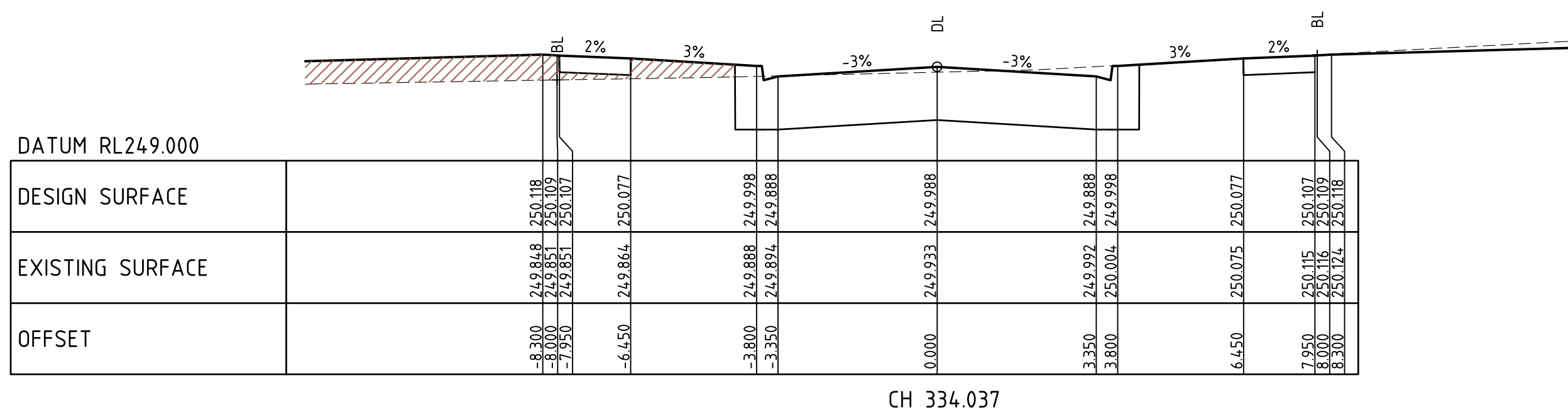
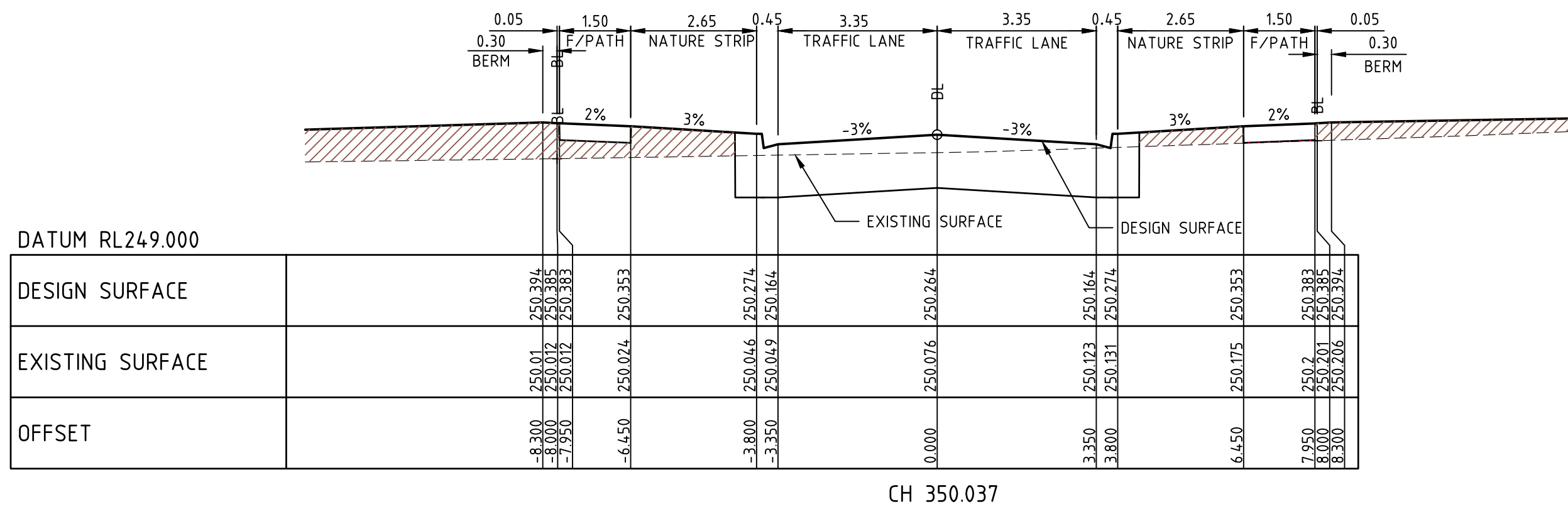
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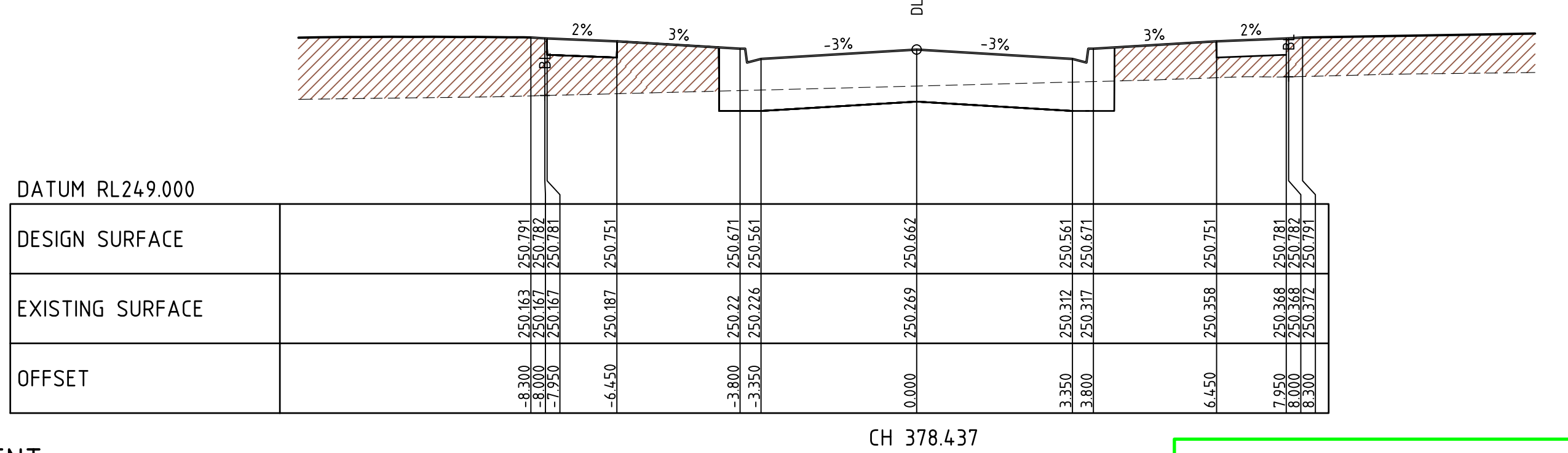
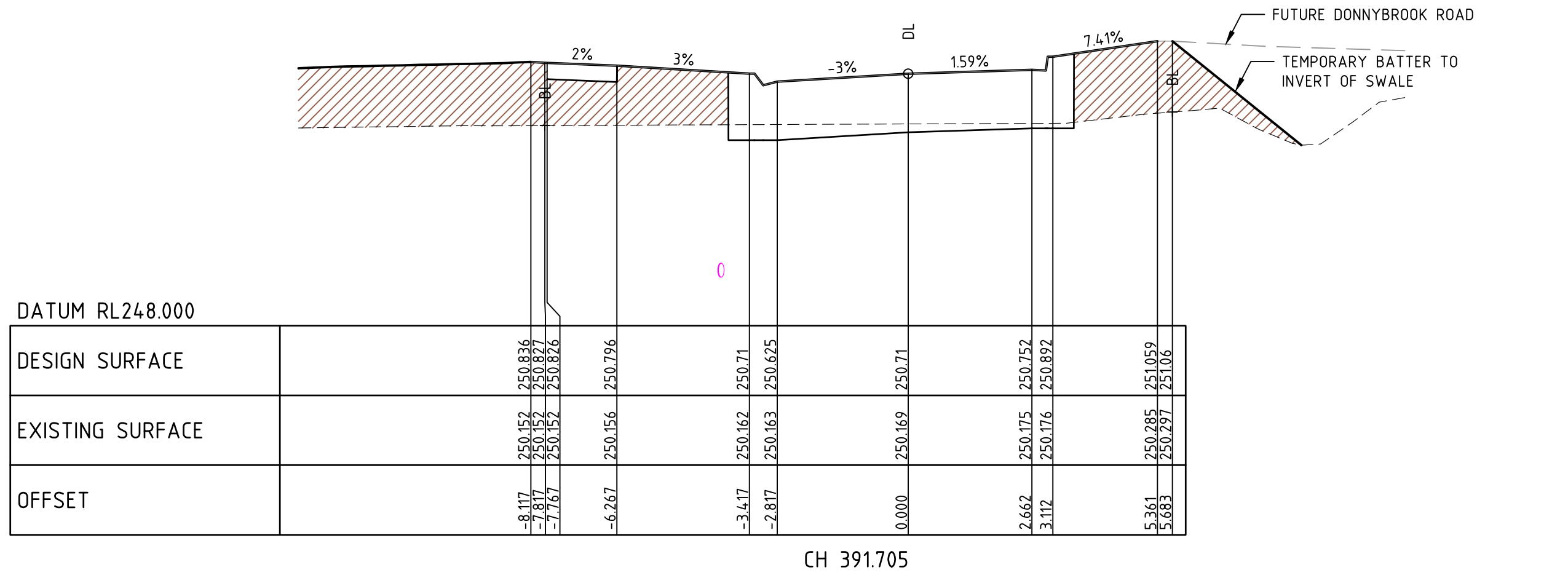
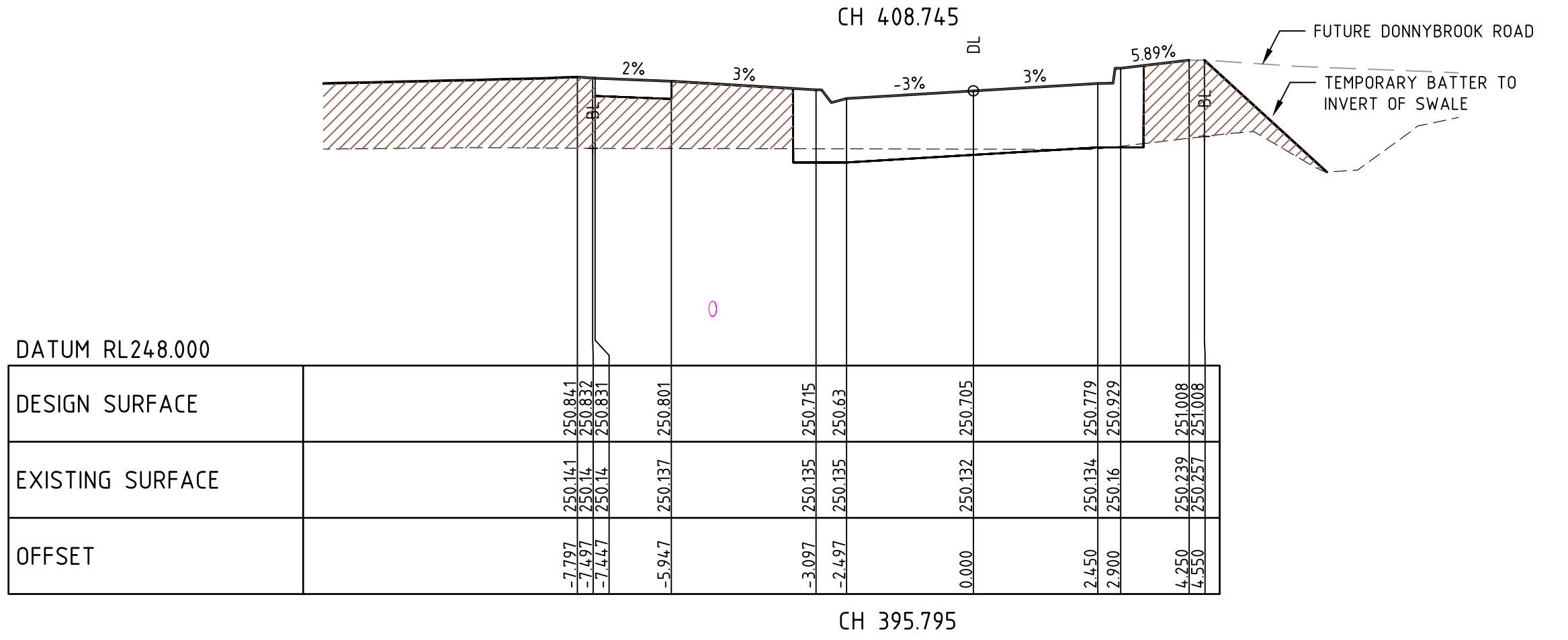
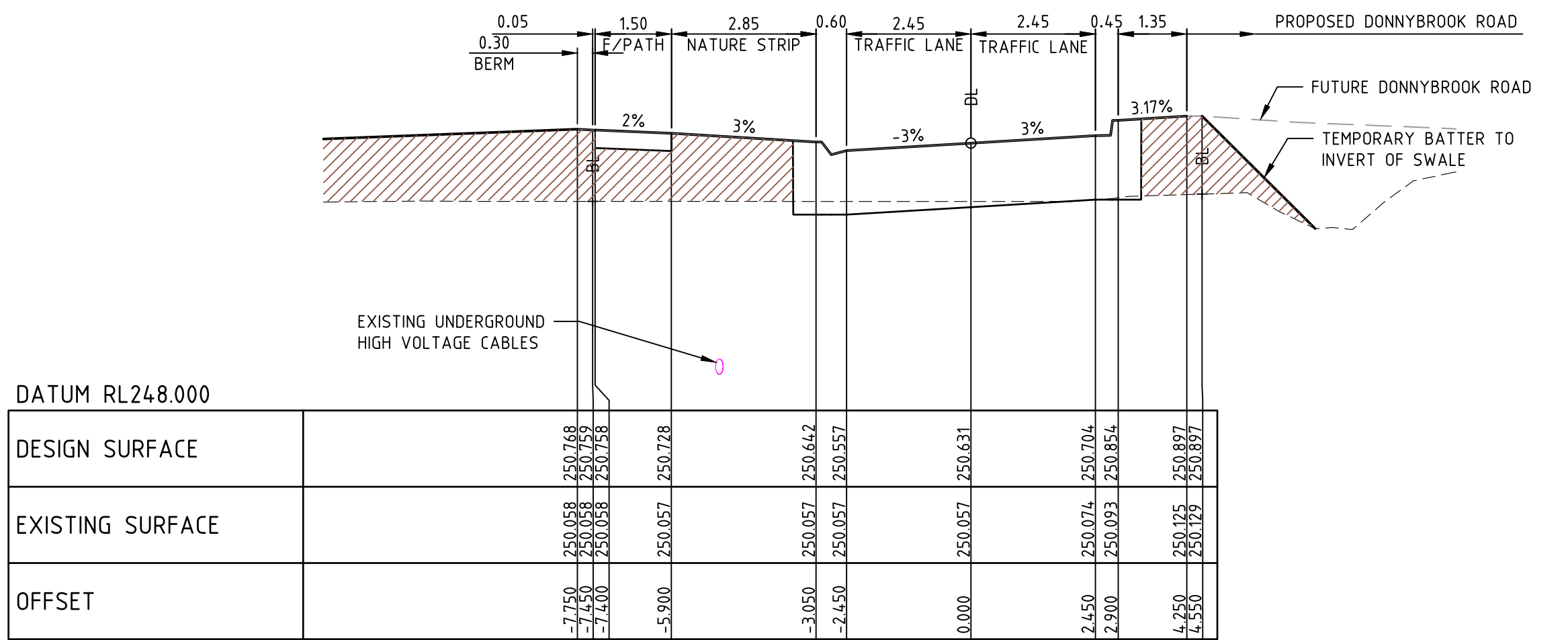
ABN 78 429 221 049

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 Sep 08, 2016 - 3:02pm - ByronAshde--



PRIMROSE CRESCENT

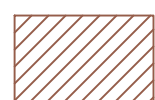


AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541238
Verified S.LEA
Date 17/06/15
AN 1081824
Audited T.OBOUHOFF
Date 24/02/16
AN 912962
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885335

LEGEND

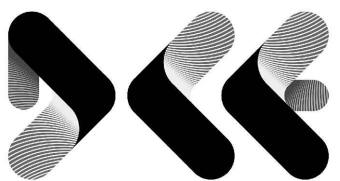


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merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
CROSS SECTIONS
SHEET 02 OF 05
Drawing No. 11736XS02 Rev 1
Sheet No. 11 AS CONSTRUCTED
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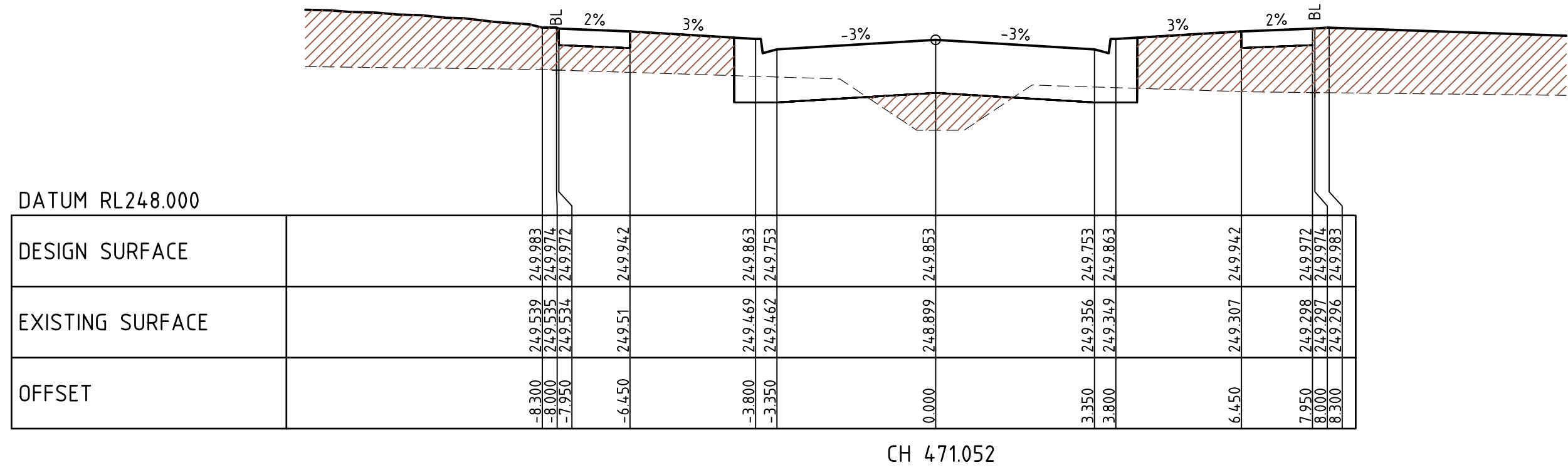
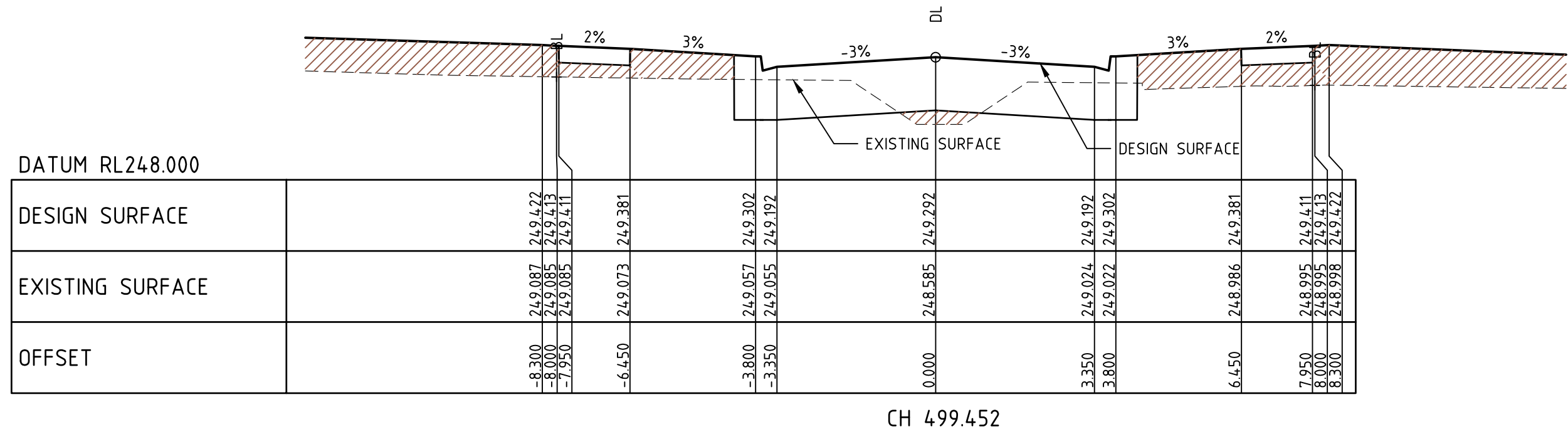
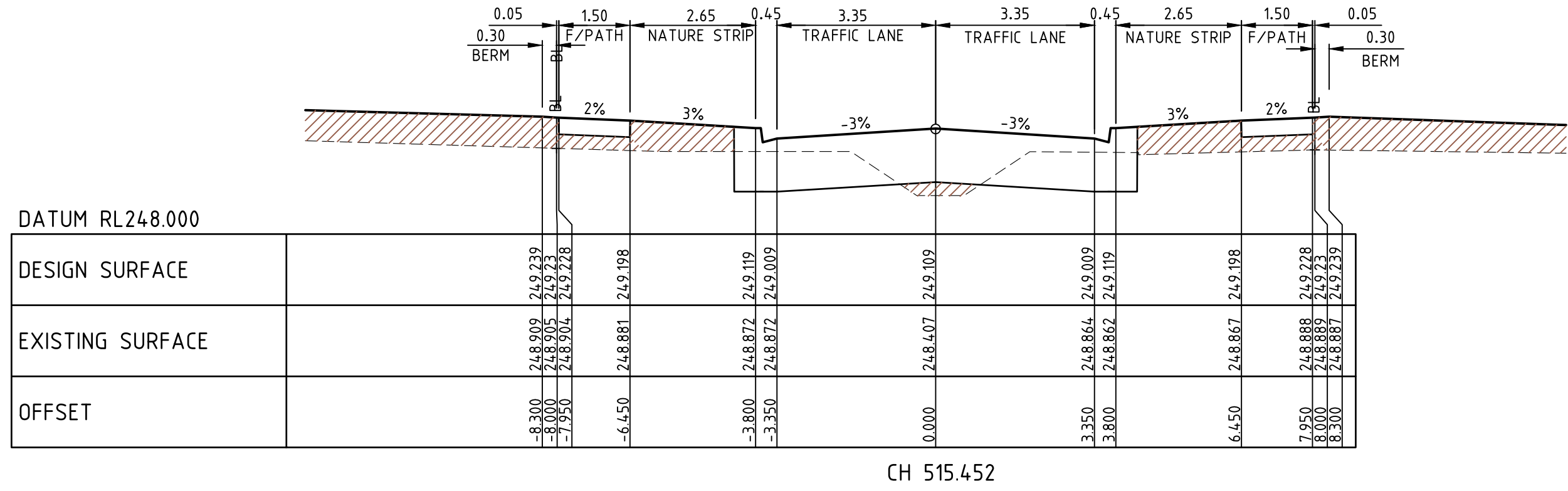
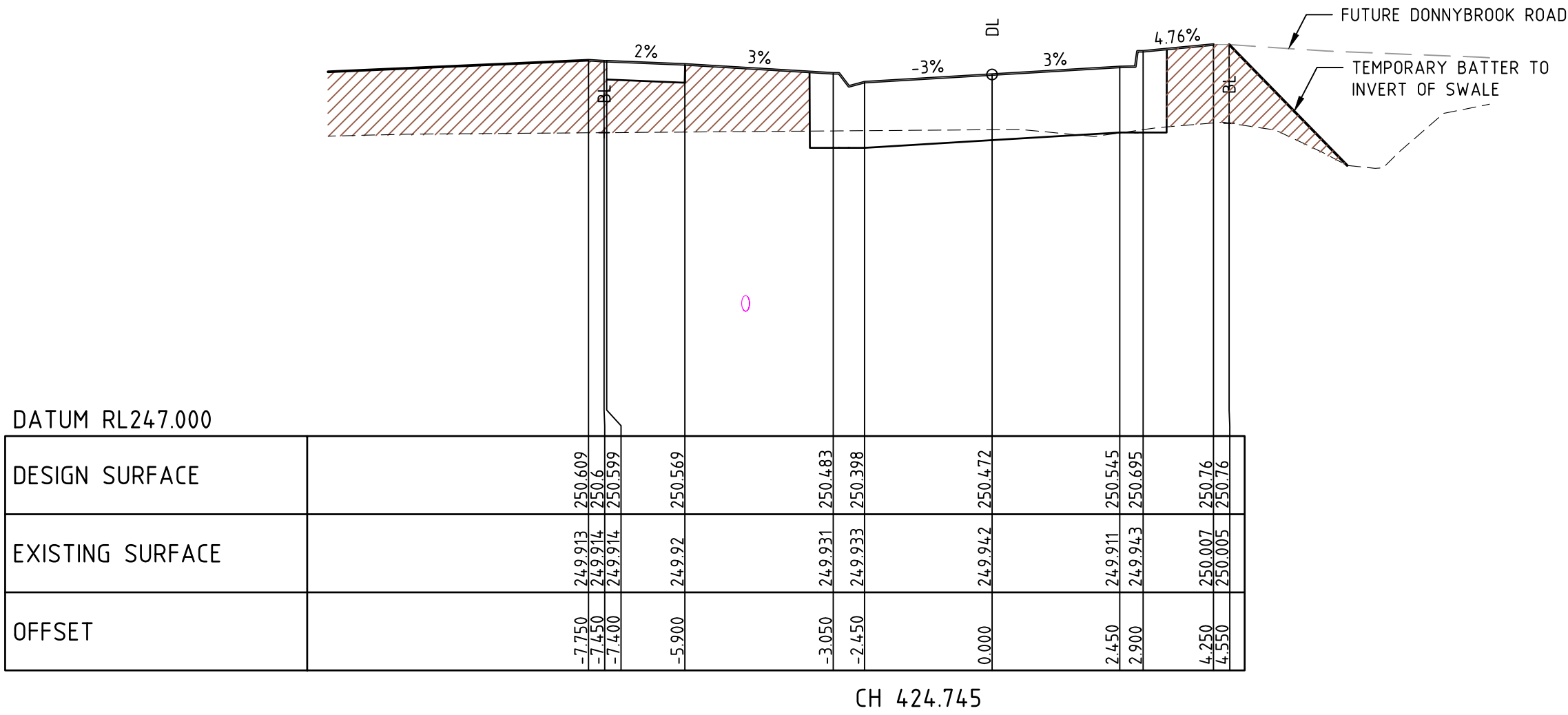
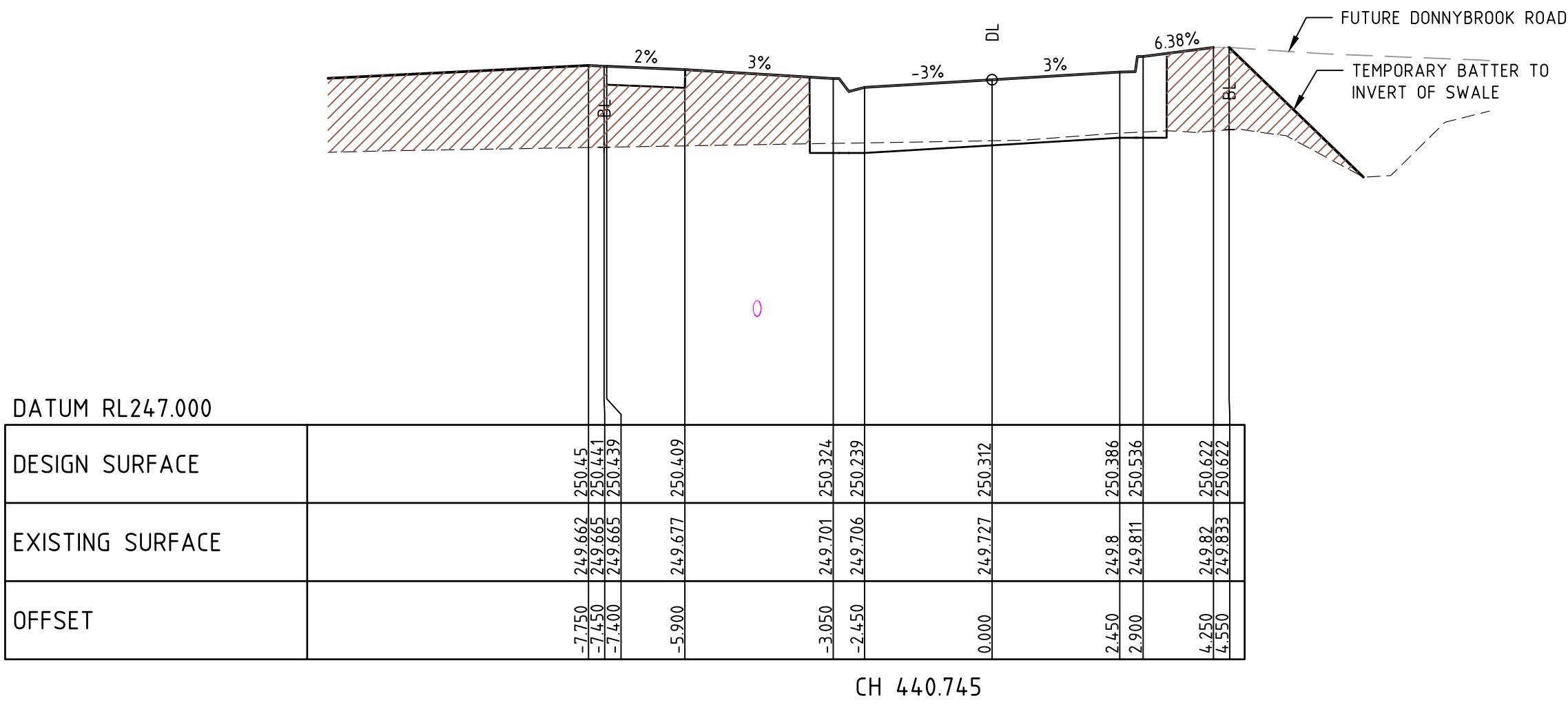
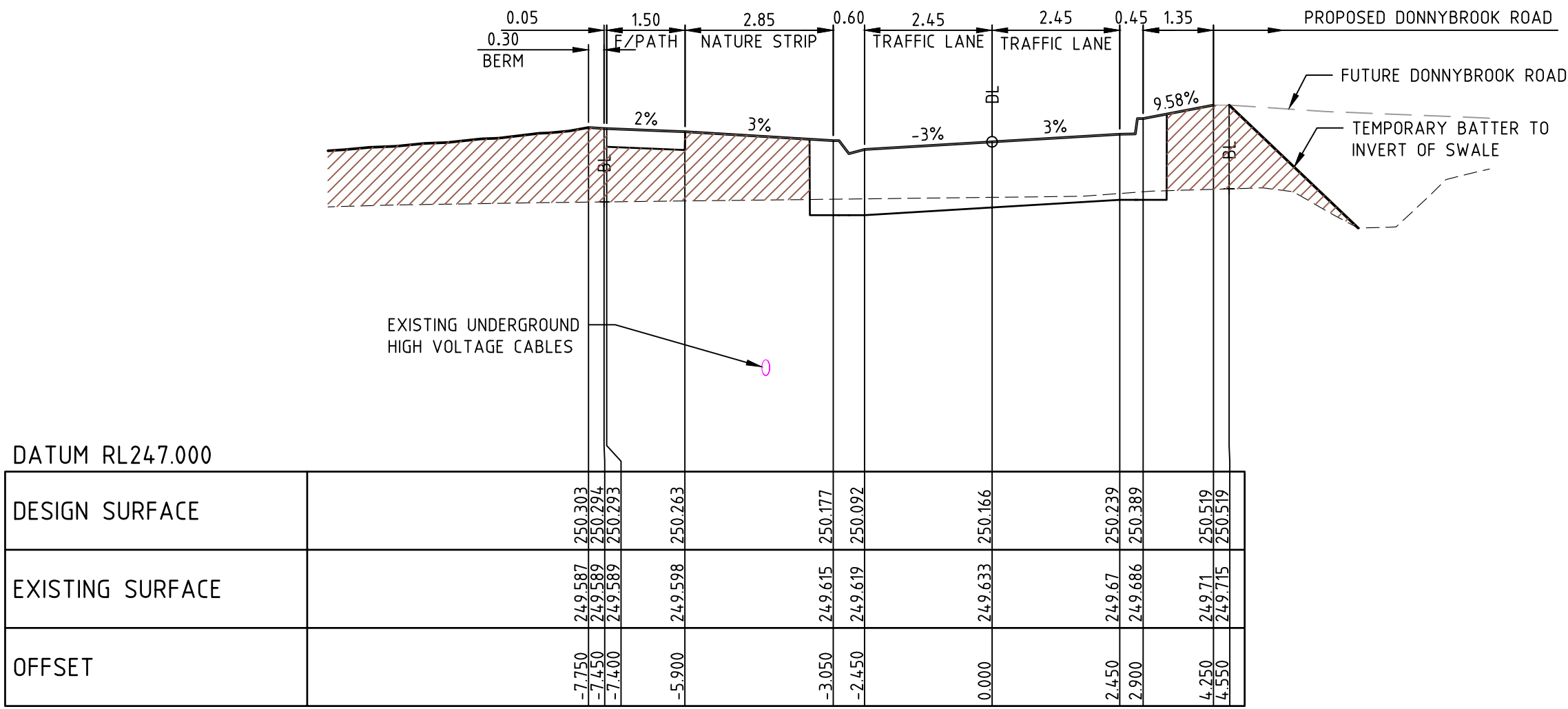
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Drawing File: G:\Design\11700\11736-MERRIFIELD - Prelim 1 - Stage 16\Acad\RD\11736XS03.dwg - 11736XS03
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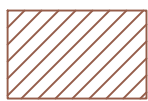
PRIMROSE CRESCENT

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541239
Verified S.LEA
Date 17/06/15
AN 1081825
Audited T.OBOUHOFF
Date 24/02/16
AN 912963
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885336

LEGEND

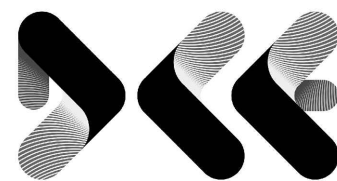


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merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
CROSS SECTIONS
SHEET 03 OF 05
Drawing No. 11736XS03 Rev 1
Sheet No. 12 AS CONSTRUCTED
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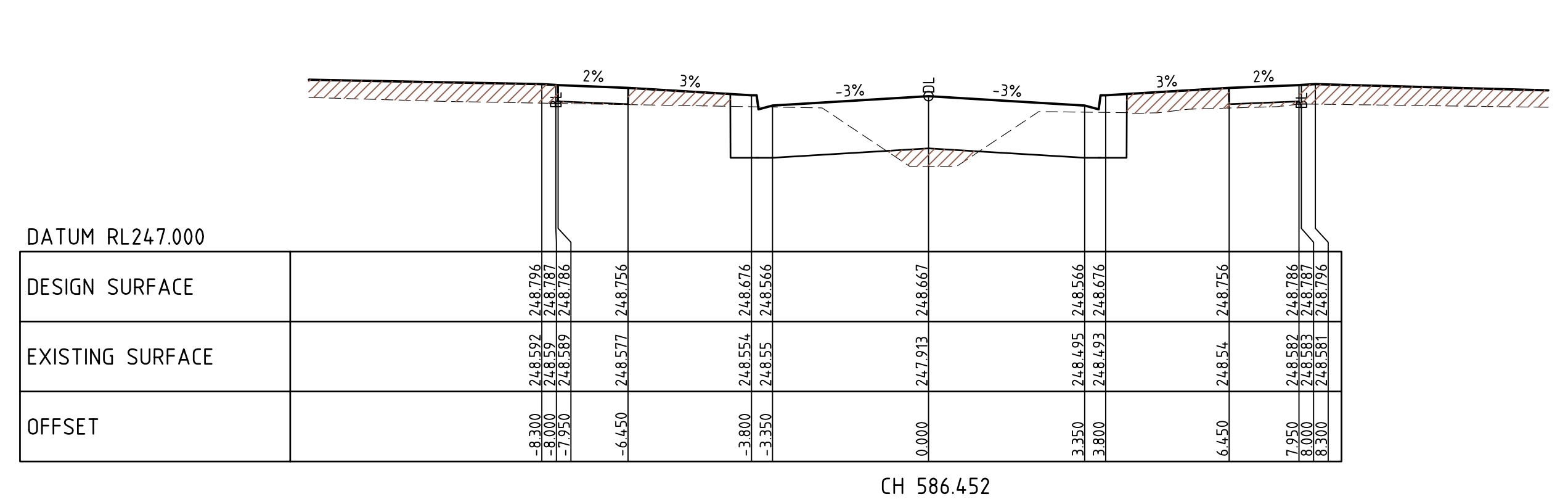
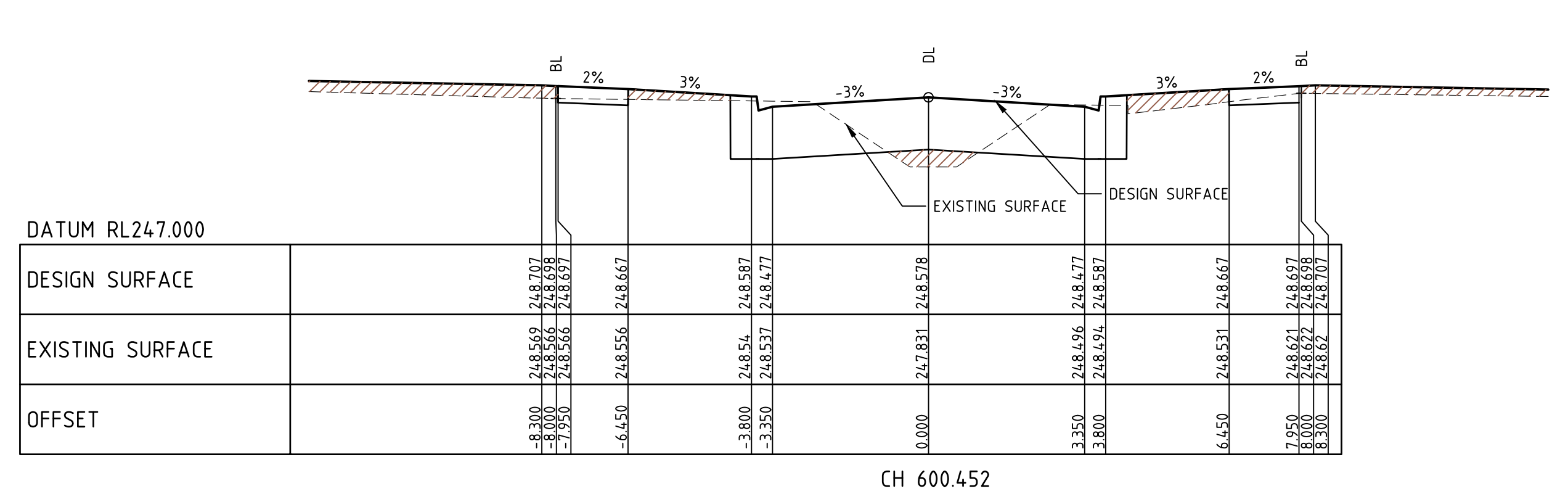
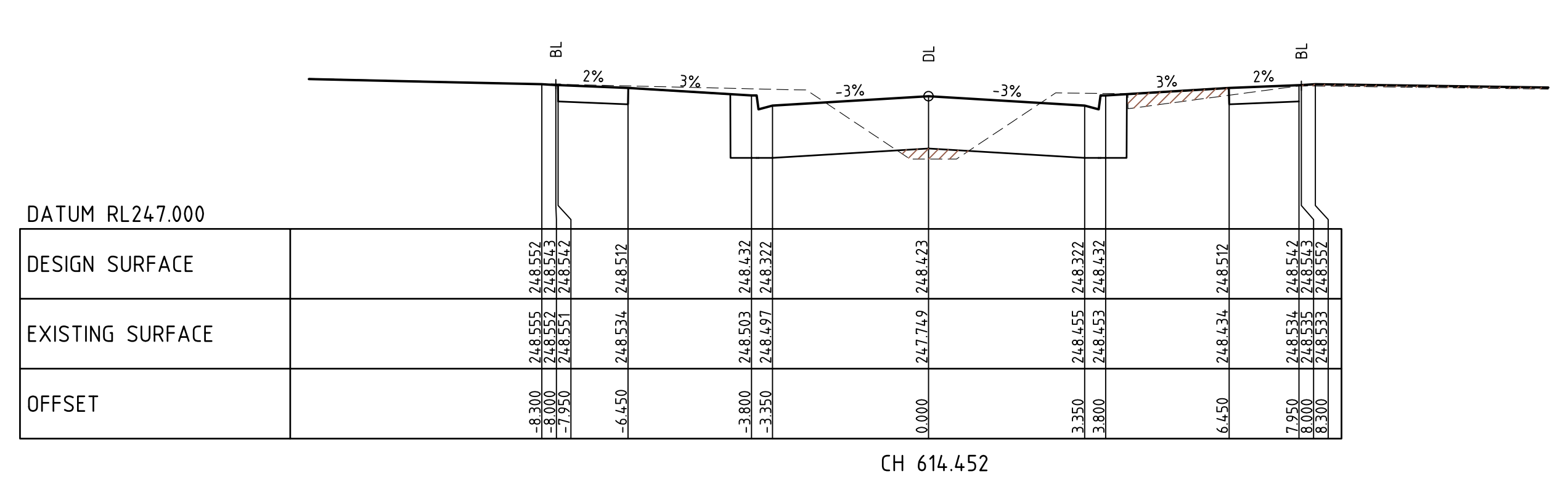
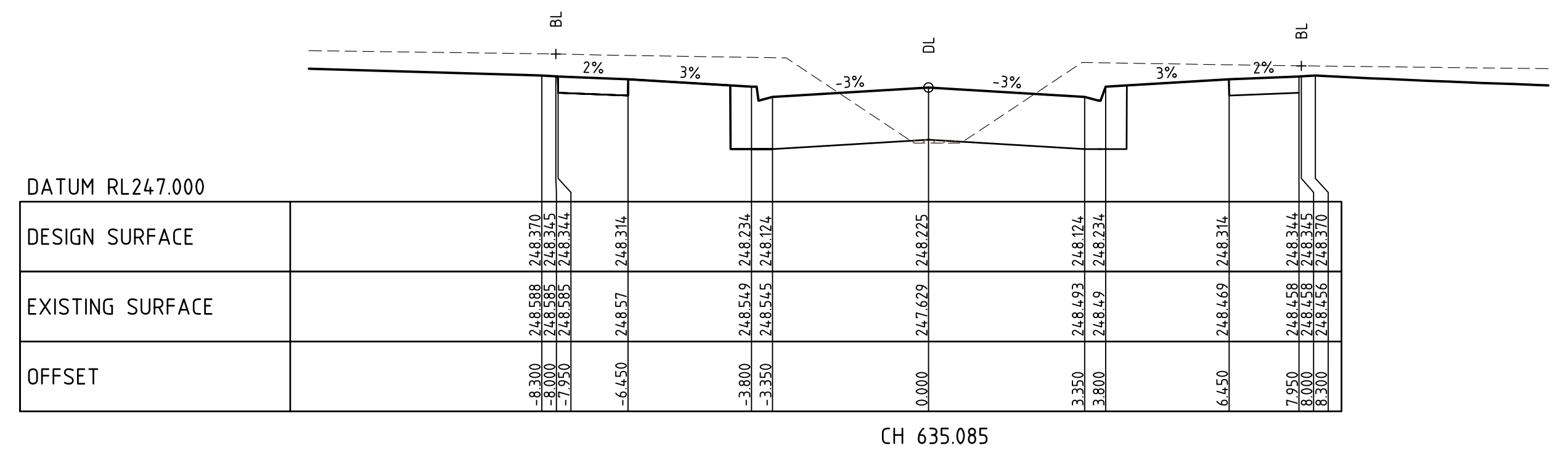
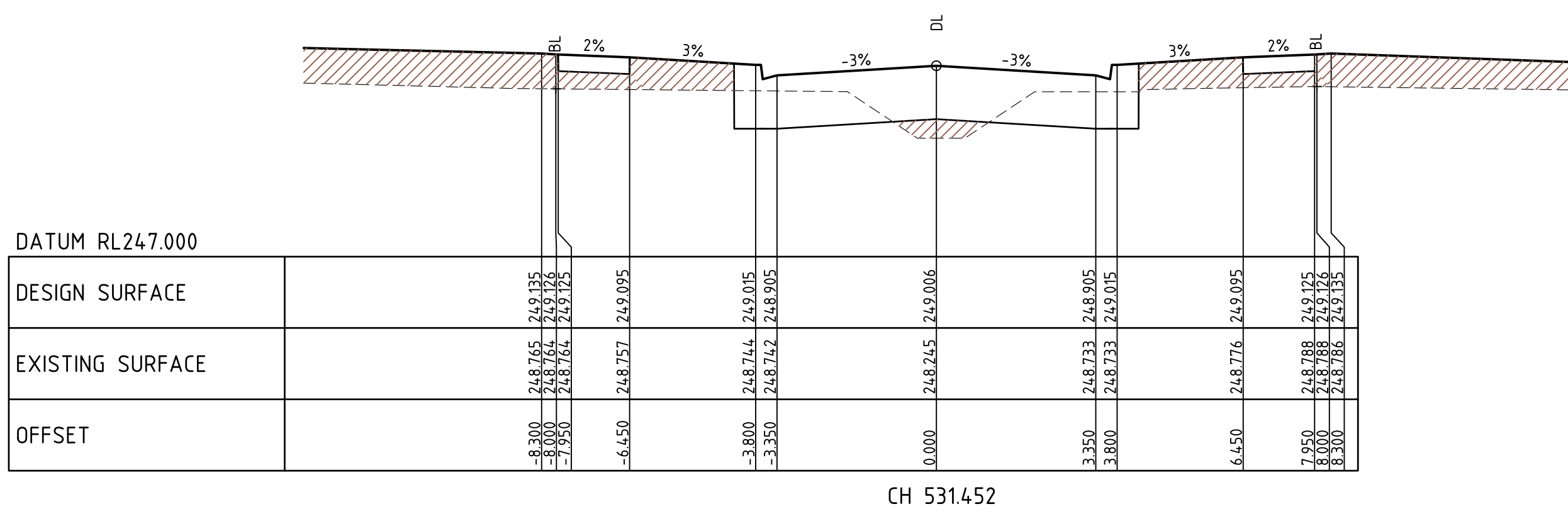
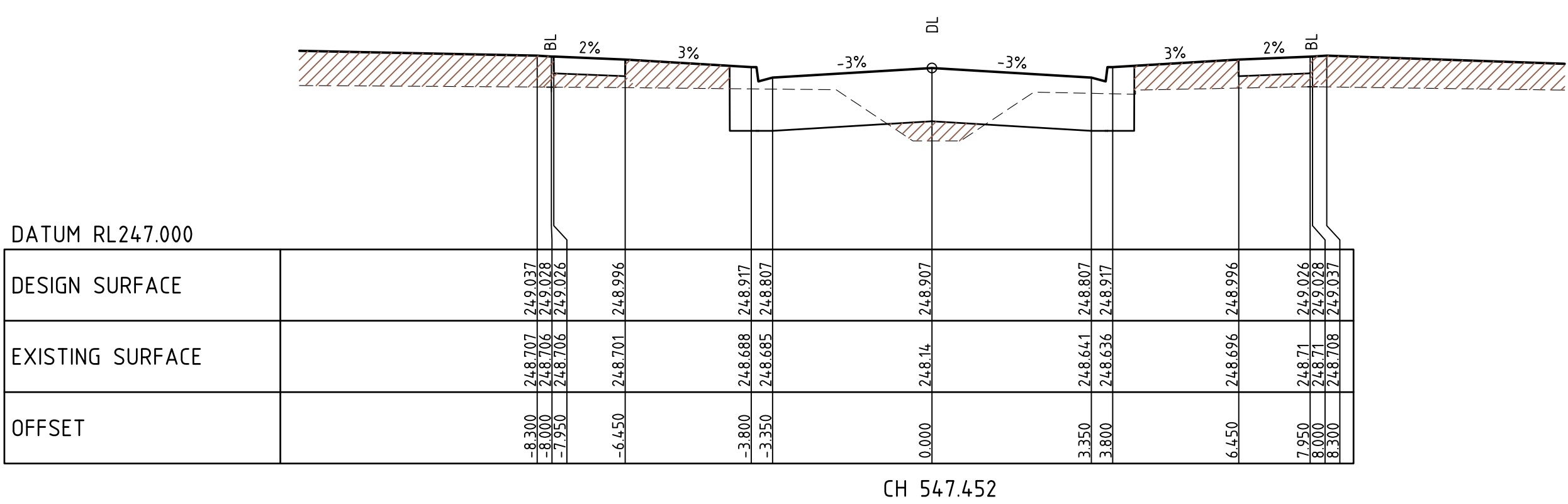
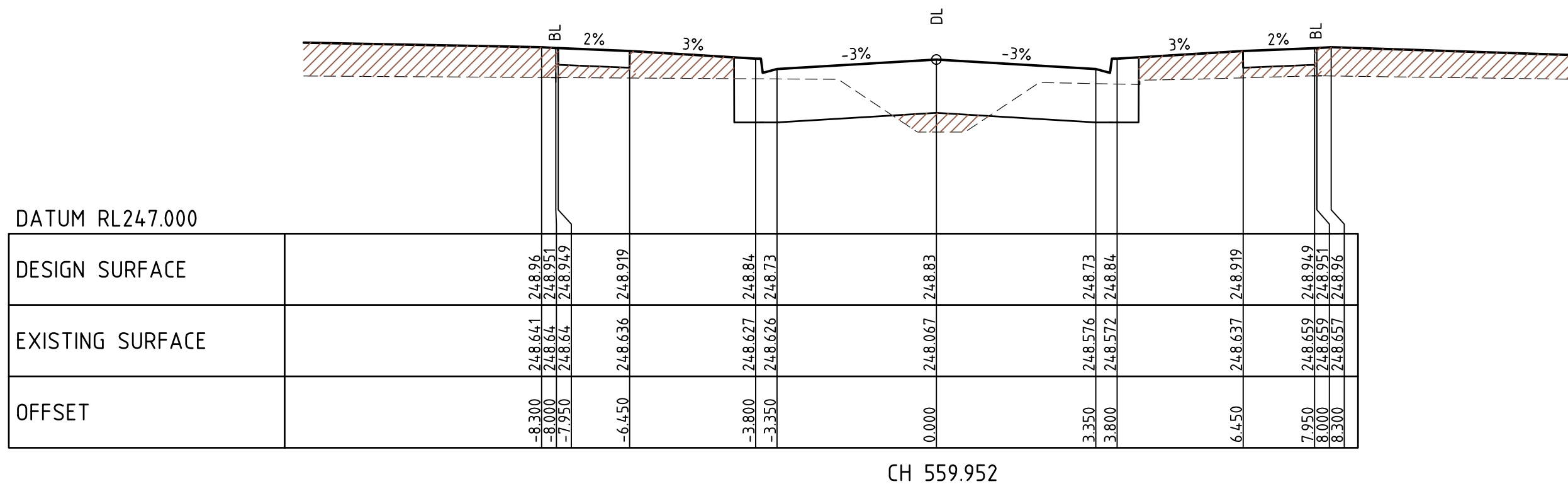
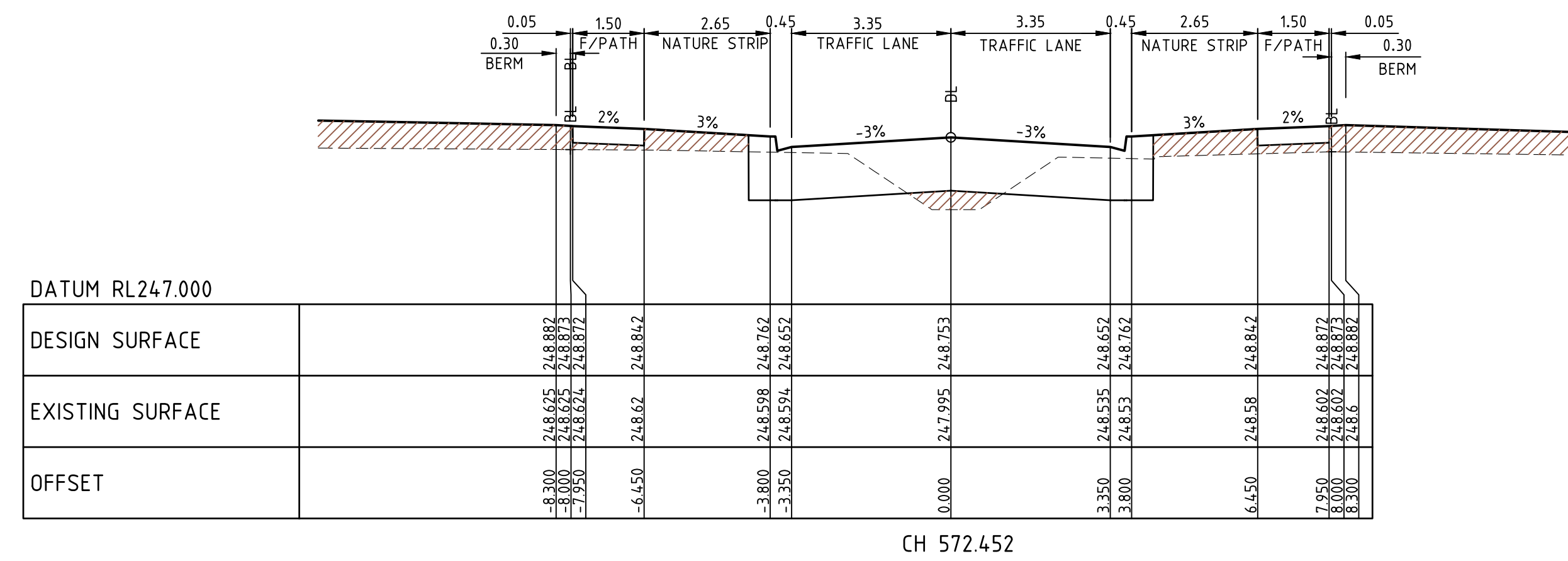


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PRIMROSE CRESCENT

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1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541240
Verified S.LEA
Date 17/06/15
AN 1061826
Audited T.OBOUHOF
Date 24/02/16
AN 912964
Approved T. LIAKOPOULOS
Date 24/02/16
AN 885337

LEGEND



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 PREPARED BY GOLDER ASSOCIATES. ENGINEERED FILL TO BE APPROVED BY HUME
 CITY COUNCIL REFER TO DWG 1173TD01 NOTES, WITH LEVEL 1 SUPERVISION IN
 ACCORDANCE WITH AS3798-2007.

merrifield
MAB GPC

Coords: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
CROSS SECTIONS
SHEET 04 OF 05
Drawing No. 11736XS04 **Rev 1**
Sheet No. 13 **AS CONSTRUCTED**
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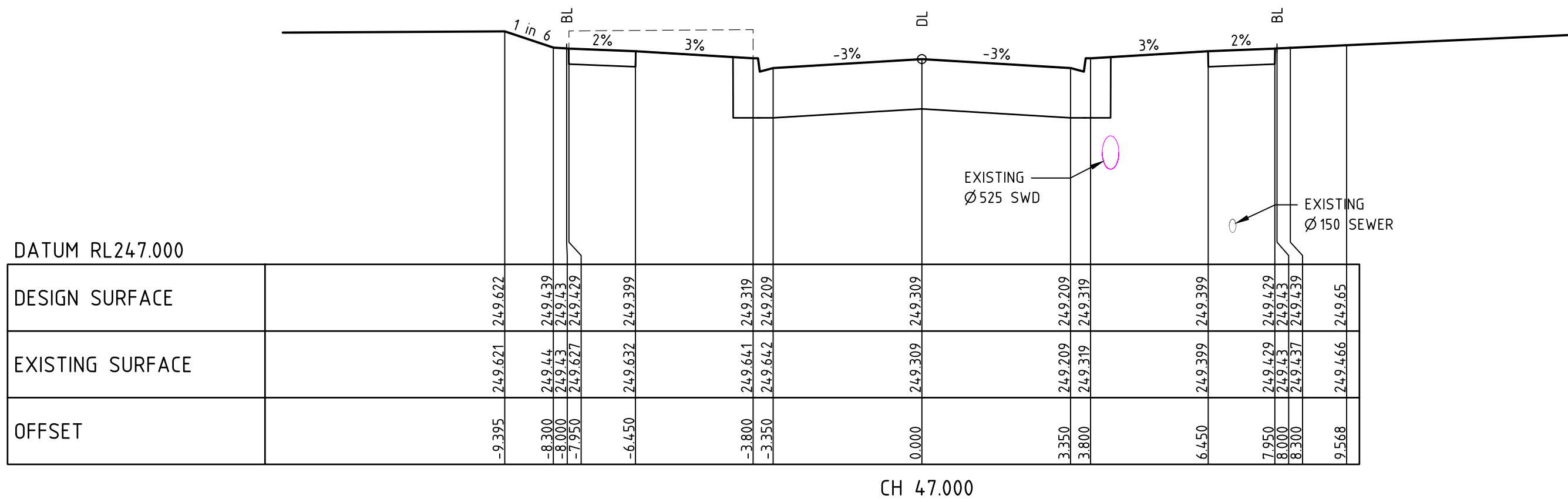
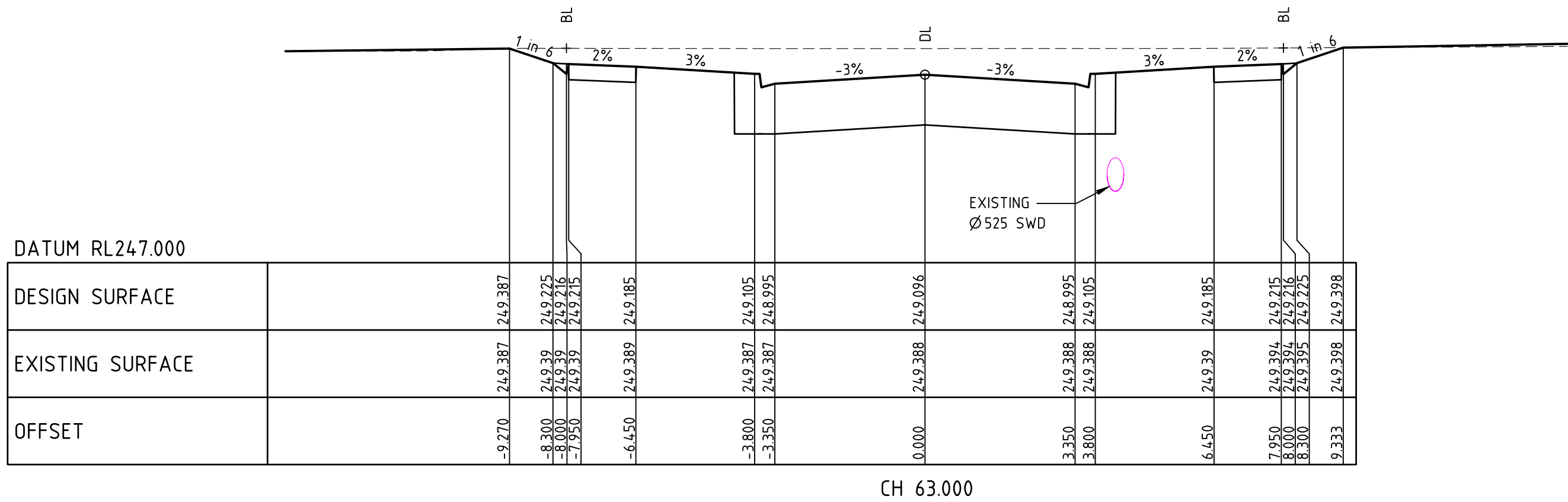
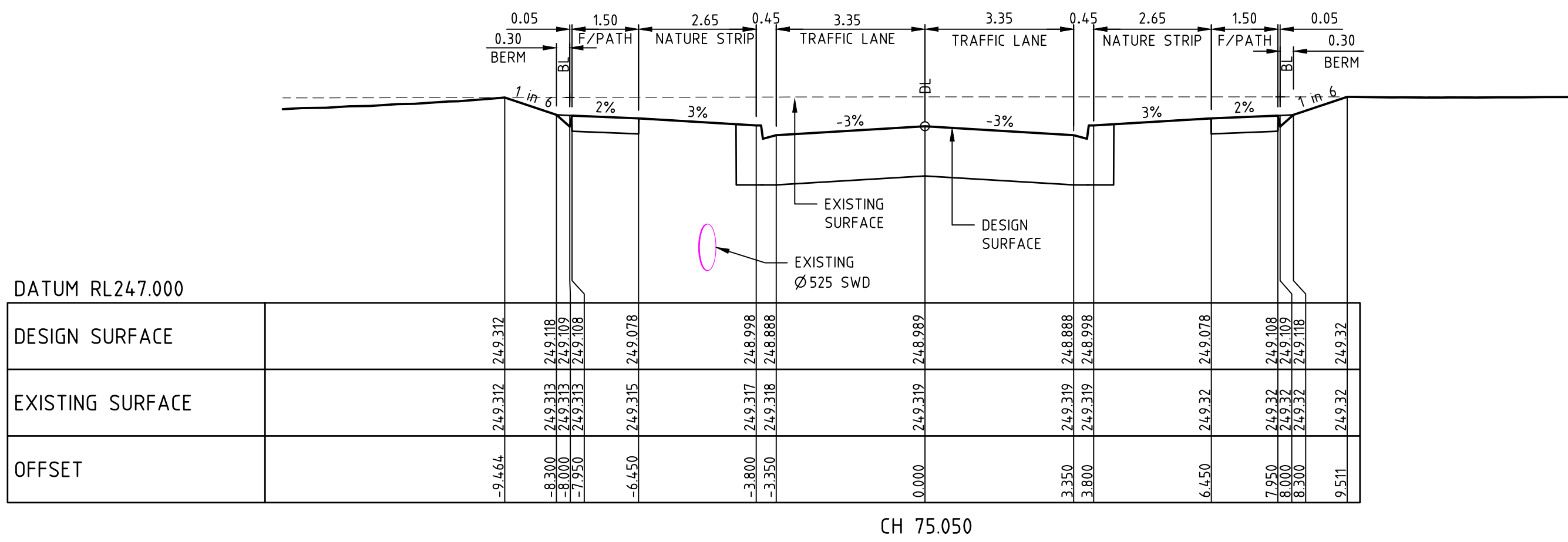
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Date/Time: Thu Sep 08, 2016 - 3:02pm --Byron.shode--



NAPIER WAY

AS CONSTRUCTED

merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
CROSS SECTIONS
SHEET 05 OF 05
Drawing No. 11736XS05 Rev 1
Sheet No. 14 AS CONSTRUCTED
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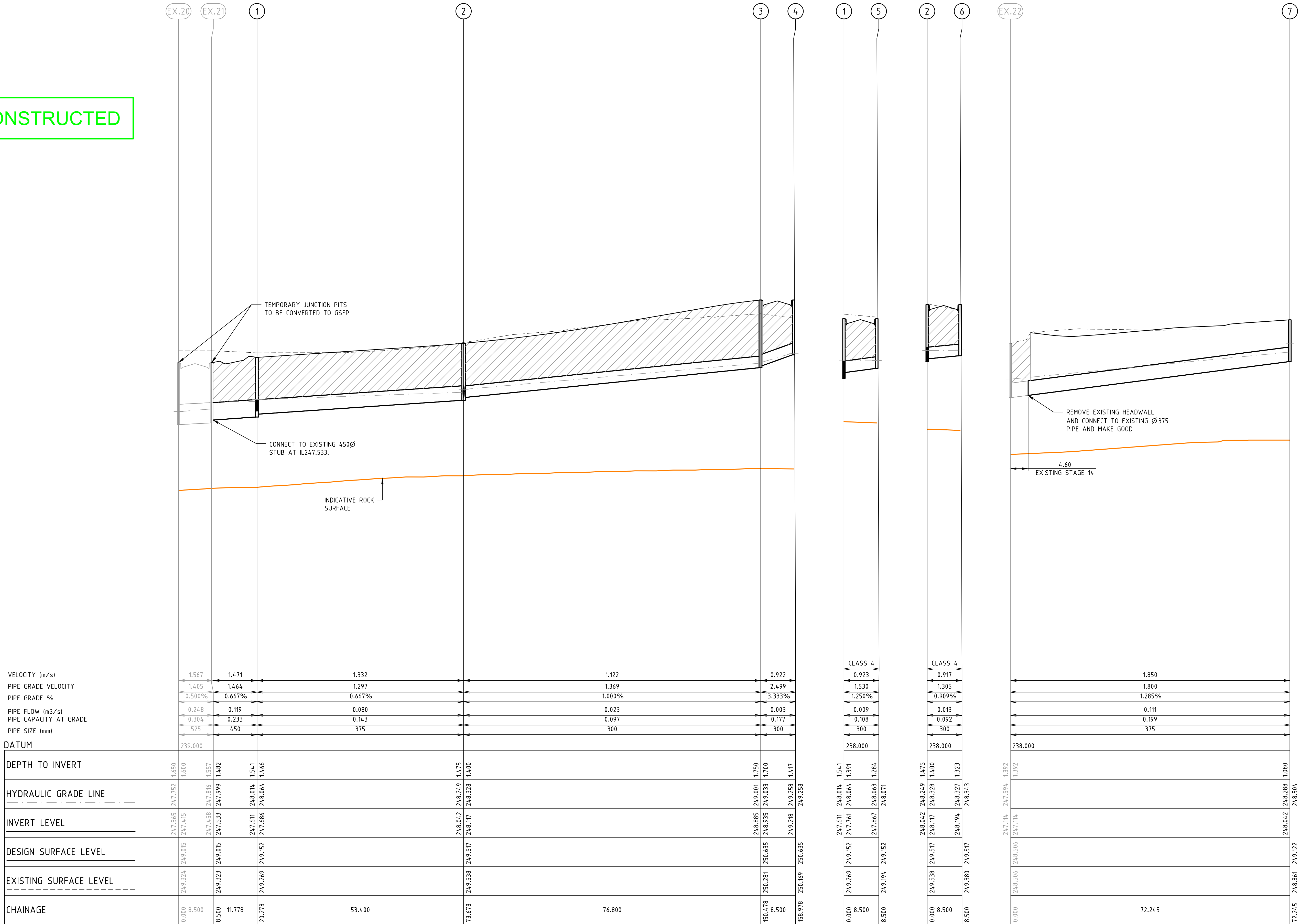
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1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL

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\11700\11736-MERRIFIELD - Prelim 1 - Stage 16\Acad\11736DR01.dwg - 11736DR01
Date/Time: Thu Sep 08, 2016 - 3:02pm - ByronShade--

AS CONSTRUCTED



LEGEND

Denotes Class 2 Crushed Rock Backfill

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541242
Verified S.LEA
Date 17/06/15
AN 1081828
Audited T.OBOUHOFF
Date 24/02/16
AN 912966
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885339

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
Ver 1:500/1:1000
Ver 1:500/1:100

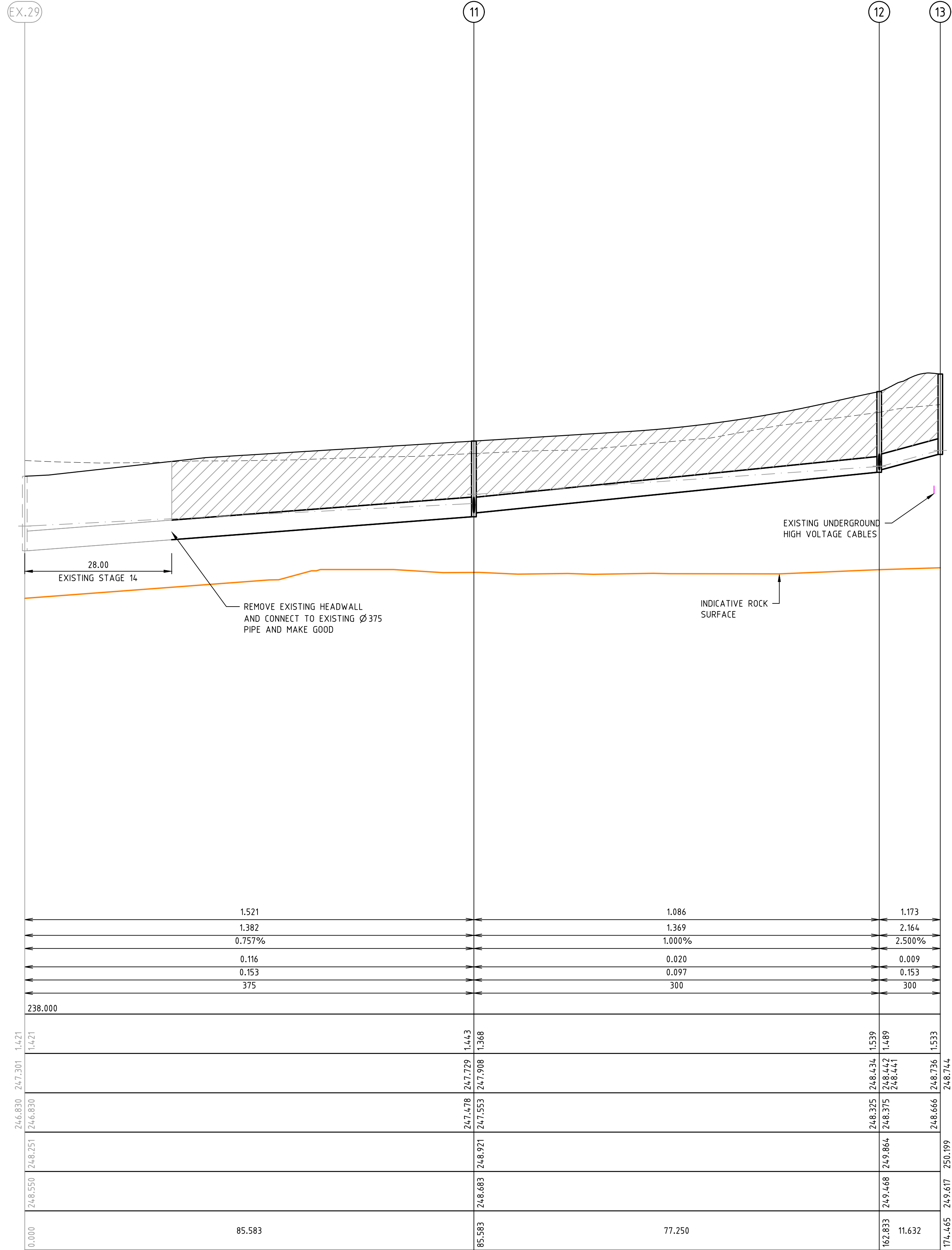
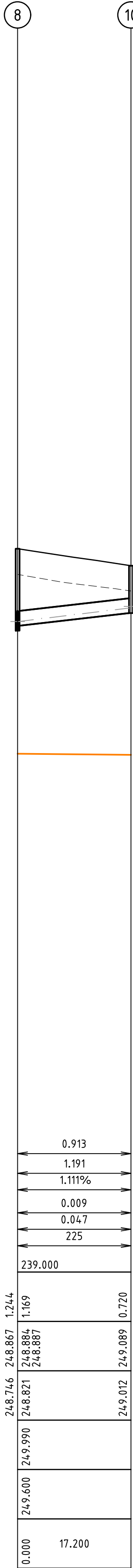
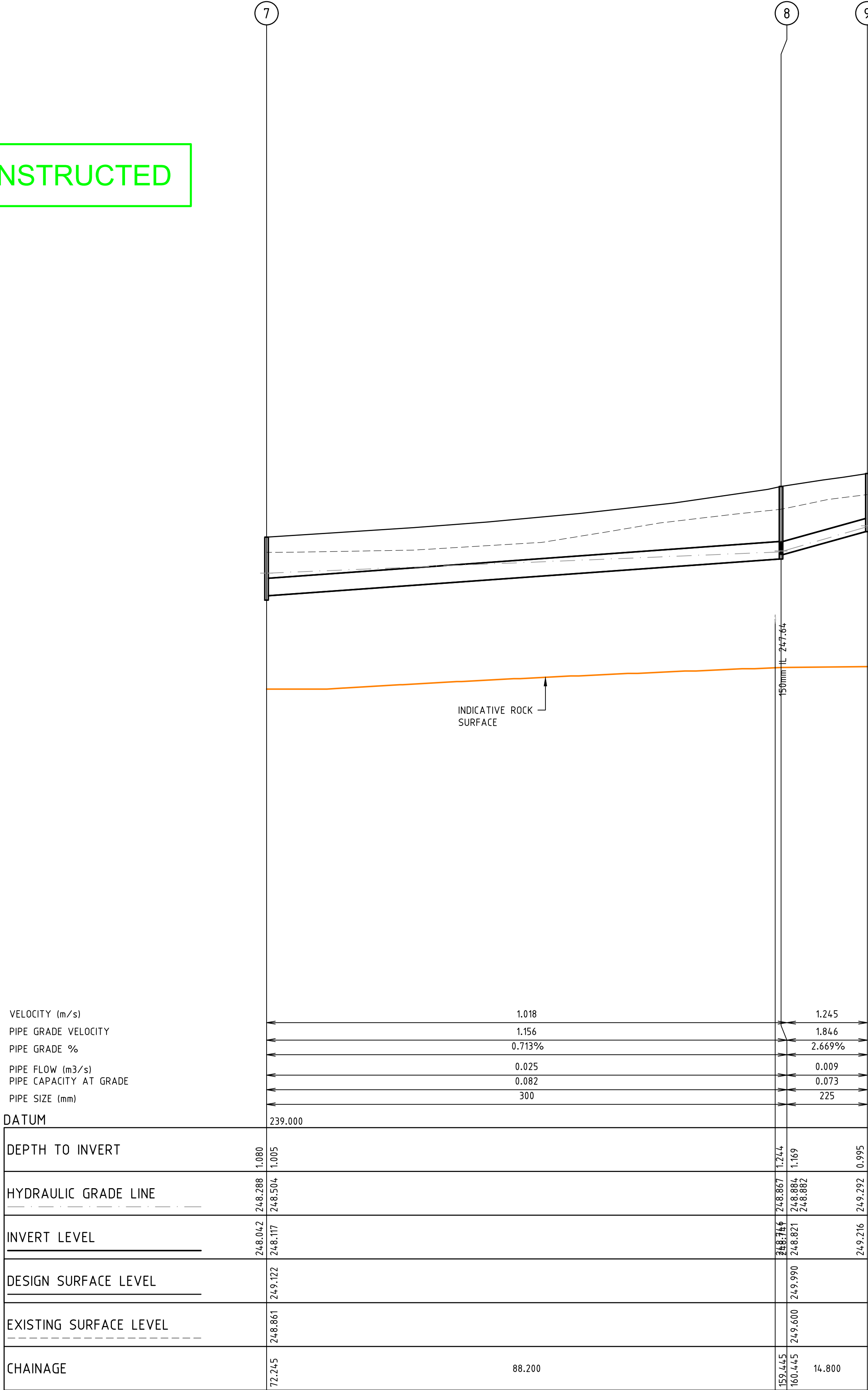
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
DRAINAGE LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11736DR01 Rev 1
AS CONSTRUCTED
Sheet No. 15
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Drawing File: G:\Design\11700\11736-MERRIFIELD - Precinct 1 - Stage 16\Acad\11736DR02.dwg - 11736DR02
Date/Time: Thu Sep 08, 2016 - 3:03pm - ByronShade

AS CONSTRUCTED



1	AS CONSTRUCTED	08/09/16	TL
0	CONSTRUCTION ISSUE	26/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn K.PAGE
Date 10/06/15
AN 1511018
Designed N.MIRATANA
Date 09/06/15
AN 1541243
Verified S.LEA
Date 17/06/15
AN 1081829
Audited T.OBOUHOFF
Date 24/02/16
AN 912967
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885339

LEGEND

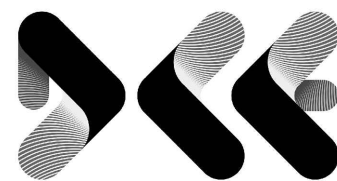


DENOTES CLASS 2 CRUSHED ROCK BACKFILL



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3
Hor 1:500/1:1000
Ver 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
DRAINAGE LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 11736DR02 Rev 1
Sheet No. 16 AS CONSTRUCTED
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ABN 78 429 221 049



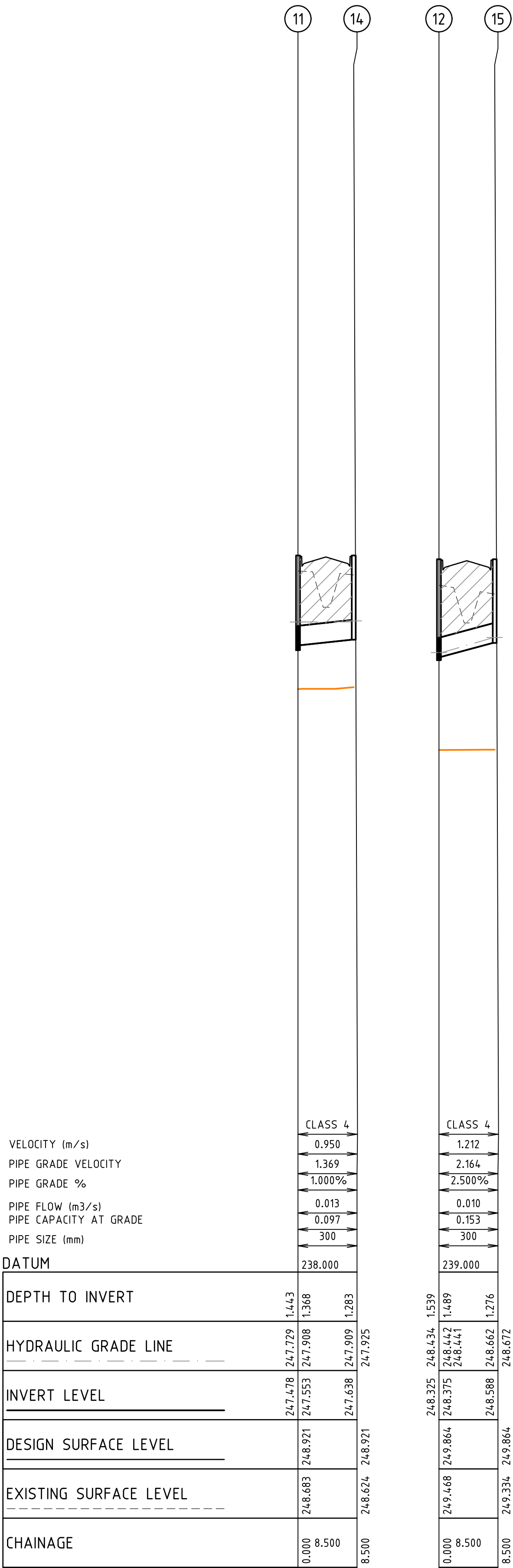
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: G:\Design\11700\11736-MERRIFIELD - Precinct 1 - Stage 16\Acad\RD\11736DR03.dwg - 11736DR03
Date/Time: Thu Sep 08, 2016 - 3:03pm - ByronAshode--



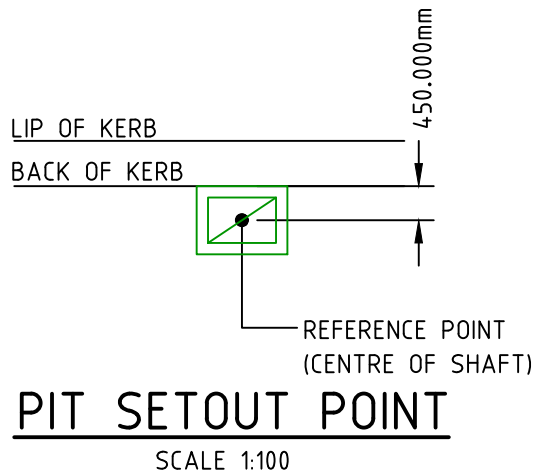
PIT		EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE			WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
Ex.19	GSEP	314686.846	5843860.644	T600	T900	525	247.306	600	247.231	248.752	1.521	HAUNCHED TEMP. JP TO BE CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245. 150mm CRUSHED ROCK TO BE REMOVED AND PIT EXTENDED TO DESIGN SURFACE IF REQUIRED.
				B900	B1000							
Ex.20	GSEP	314677.533	5843853.433	T600	T900	525	247.415	525	247.365	249.015	1.6	EXISTING HAUNCHED JP TO BE CONVERTED TO GSEP. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245.
				B900	B1000							
Ex.21	GSEP	314676.489	5843844.997	T600	T900	375	247.608	525	247.458	249.015	1.557	EXISTING HAUNCHED JP TO BE CONVERTED TO GSEP. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245.
				B900	B900	450	247.533					
1	GSEP	314683.764	5843835.734	600	900	375	247.686	450	247.611	249.152	1.541	REFER TO MPA STD DRG FIG.012
						300	247.761					
2	GSEP	314677.207	5843782.738	600	900	300	248.117	375	248.042	249.517	1.475	REFER TO MPA STD DRG FIG.012
						300	248.117					
3	GSEP	314667.777	5843706.519	600	900	300	248.935	300	248.885	250.635	1.75	REFER TO MPA STD DRG FIG.012
4	GSEP	314676.213	5843705.476	600	900			300	249.218	250.635	1.417	REFER TO MPA STD DRG FIG.012
5	GSEP	314692.199	5843834.69	600	900			300	247.867	249.152	1.284	REFER TO MPA STD DRG FIG.012
6	GSEP	314685.643	5843781.695	600	900			300	248.194	249.517	1.323	REFER TO MPA STD DRG FIG.012
Ex.22	GSEP	314731.732	5843880.982	600	900	375	247.114			248.506	1.392	REFER TO MPA STD DRG FIG.012
7	JP	314722.862	5843809.283	600	600	300	248.117	375	248.042	249.122	1.08	REFER TO MPA STD DRG FIG.014
8	JP	314712.032	5843721.751	600	600	225	248.821	300	248.746	249.99	1.244	REFER TO MPA STD DRG FIG.014
						225	248.821					
9	JP	314697.344	5843723.568	600	600			225	249.216	250.211	0.995	REFER TO MPA STD DRG FIG.014
10	JP	314729.102	5843719.639	600	600			225	249.012	249.732	0.72	REFER TO MPA STD DRG FIG.014
Ex.29	GSEP	314766.543	5843853.286	600	900	375	246.83			248.251	1.421	REFER TO MPA STD DRG FIG.012
11	GSEP	314756.037	5843768.35	600	900	300	247.553	375	247.478	248.921	1.443	REFER TO MPA STD DRG FIG.012
						300	247.553					
12	GSEP	314746.552	5843691.685	600	900	300	248.375	300	248.325	249.864	1.539	REFER TO MPA STD DRG FIG.012
						300	248.375					
13	GSEP	314737.314	5843684.616	600	900			300	248.666	250.199	1.533	REFER TO MPA STD DRG FIG.012
14	GSEP	314764.473	5843767.307	600	900			300	247.638	248.921	1.283	REFER TO MPA STD DRG FIG.012
15	GSEP	314754.988	5843690.641	600	900			300	248.588	249.864	1.276	REFER TO MPA STD DRG FIG.012

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 METROPOLITAN PLANNING AUTHORITY 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 METROPOLITAN PLANNING AUTHORITY (MPA) 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 VICROADS SD1001 TO SD1023.

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



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Audited T.OBOUHOFF
Date 24/02/16
AN 912968
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885341

LEGEND

 DENOTES CLASS 2 CRUSHED ROCK BACKFILL



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 Hor 1:500/1:1000
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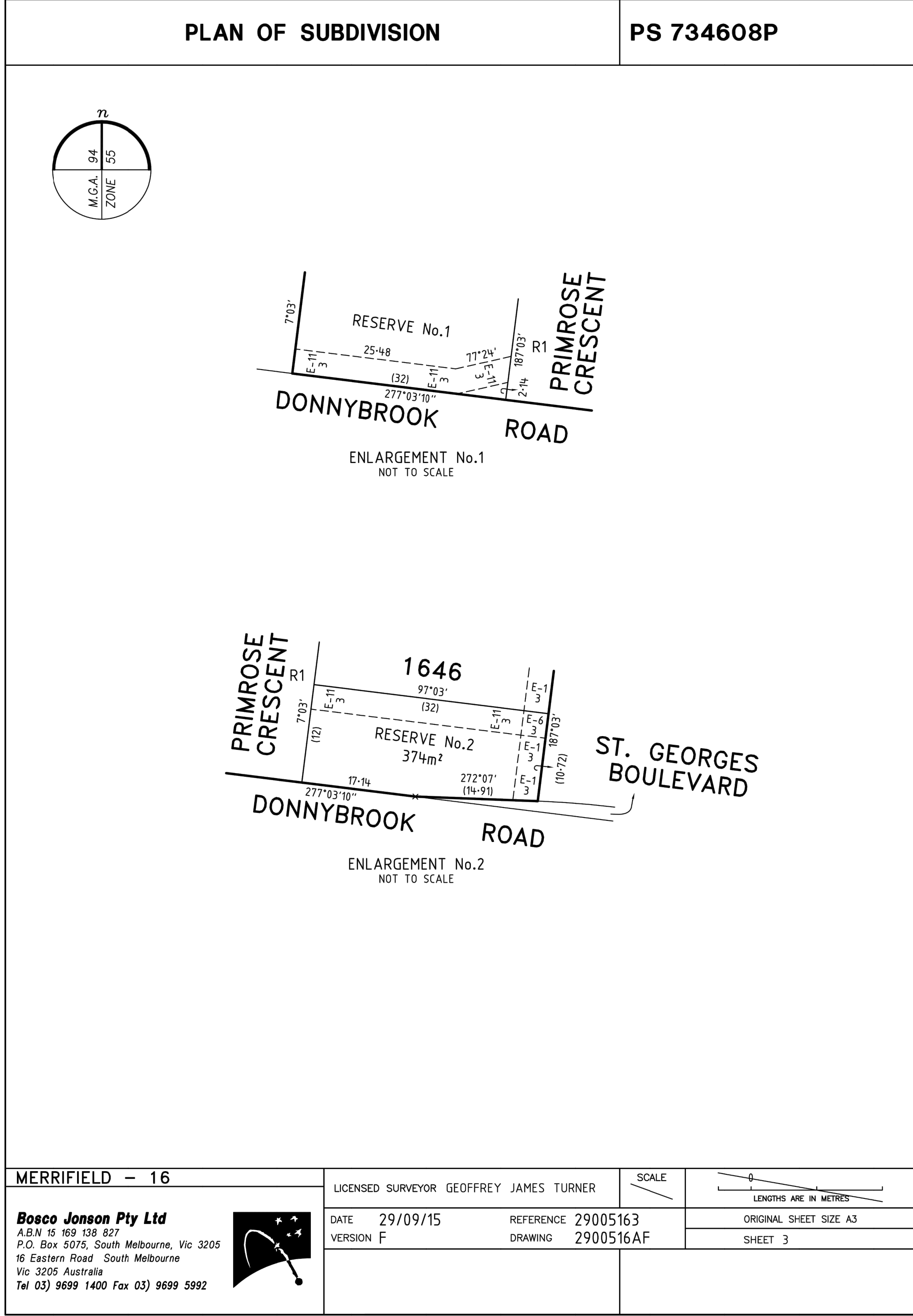
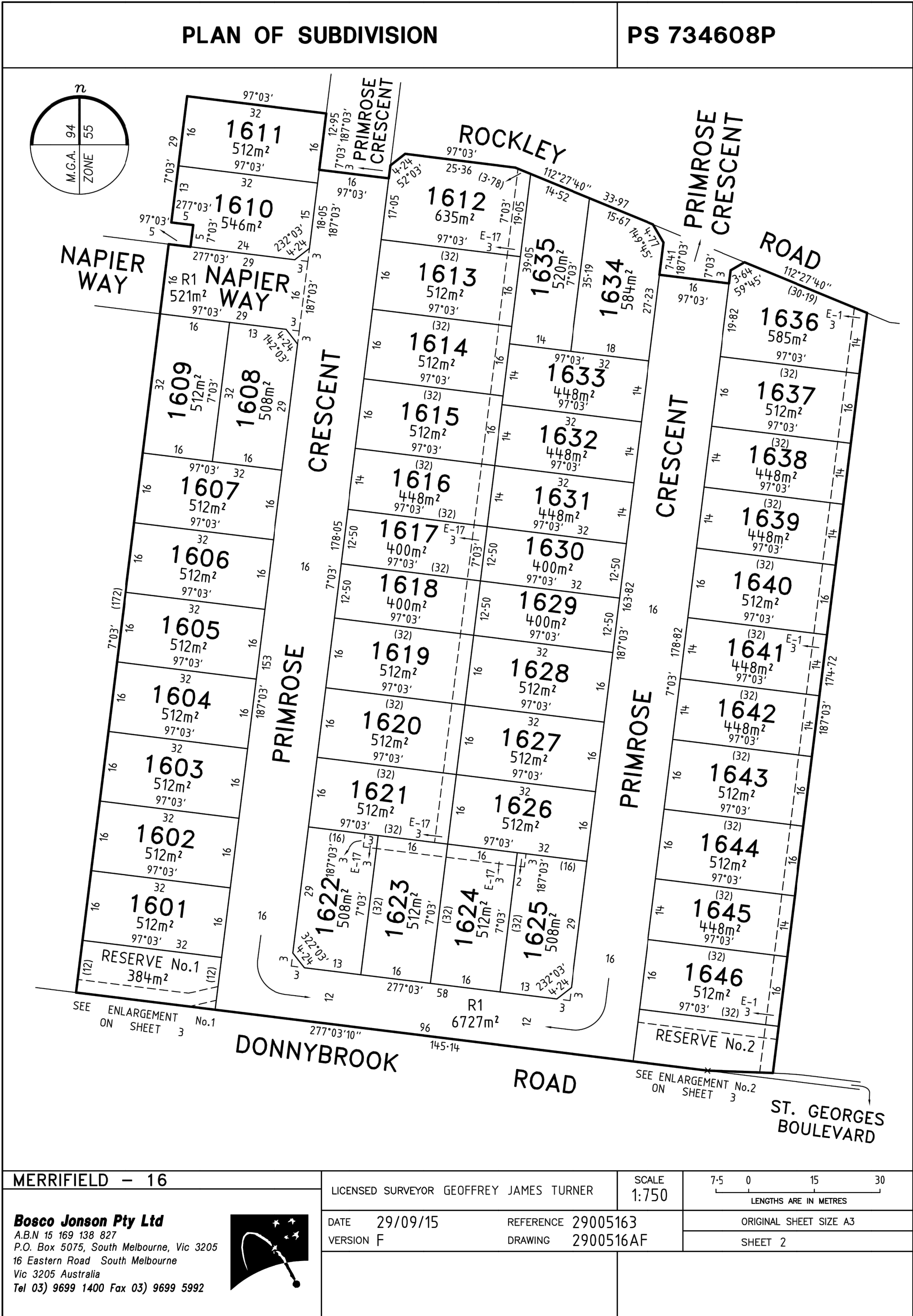
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11736DR03 Rev 1
Sheet No. 17 AS CONSTRUCTED
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Date 24/02/16
AN 885342

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merrifield
MAB gpc
Coords: MGA
Levels: AHD

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 16
PLAN OF SUBDIVISION

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

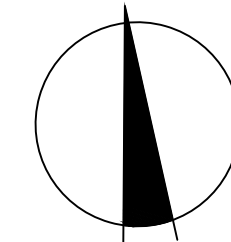
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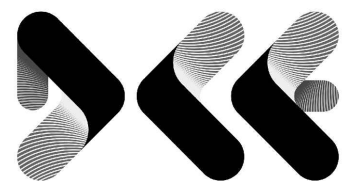


merrifield
MAB gpc

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 16
FILL PLAN

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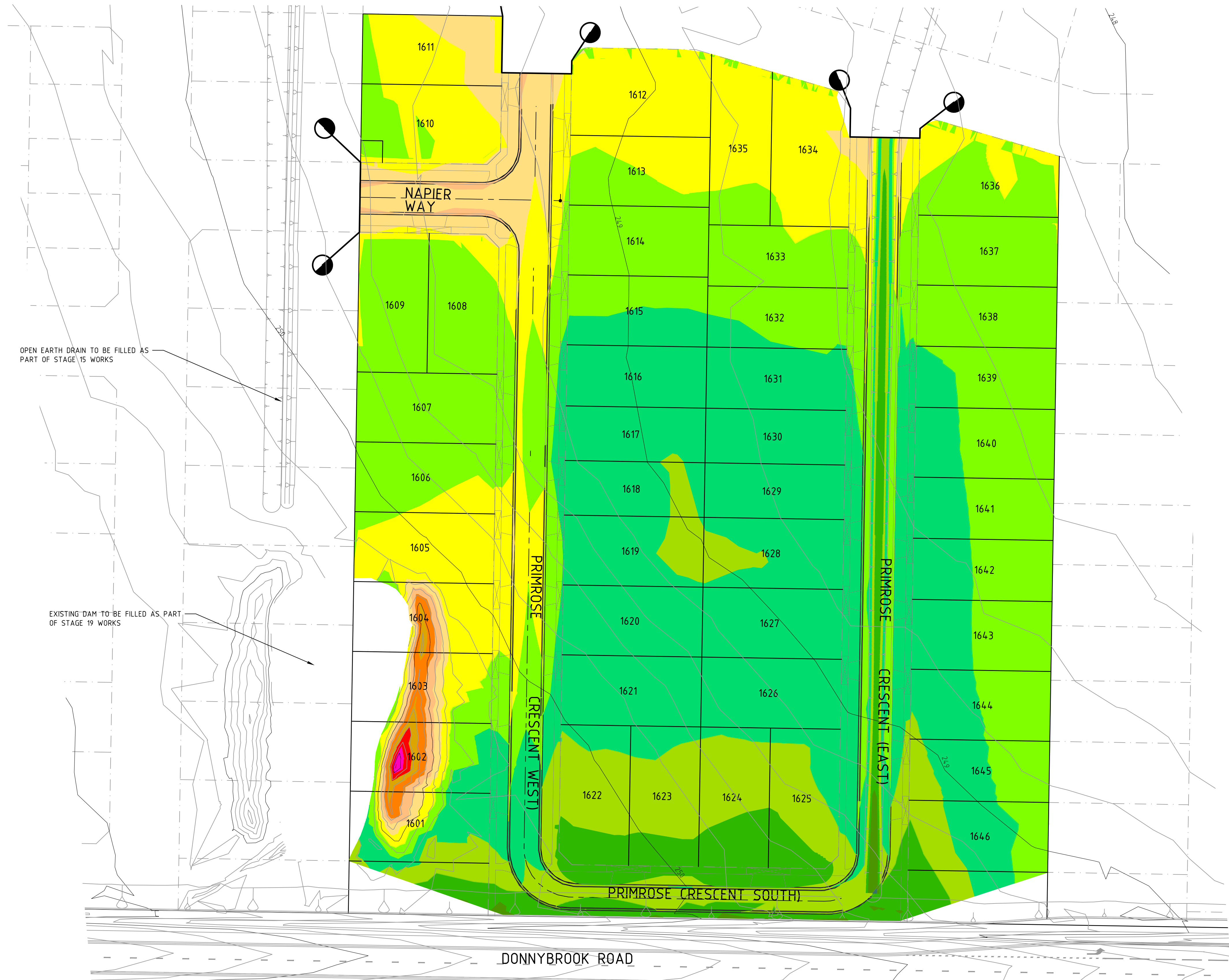


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NOTES:

1. ALL EXCESS CUT MATERIAL IS BE STOCKPILED ONSITE IN DESIGNATED STOCKPILE AREA 'SP3' AS SHOWN ON DWG NO.11720GP01.
2. PRINCIPAL CONTRACTOR TO ENSURE ALL RELEVANT PERSONAL INCLUDING SUB-CONTRACTORS ARE INDUCTED INTO THE REQUIREMENTS OF THIS PLAN.
3. IF ANY MATERIAL IS TO BE TAKEN OFFSITE, IT MUST BE TAKEN TO A LEGAL DISPOSAL SITE. SUPERINTENDENT AND HUME COUNCIL MUST BE NOTIFIED IN WRITING OF DISPOSAL SITES PRIOR TO MATERIAL LEAVING THE SITE.
4. THE DEFINITION OF FILL FOR THE PURPOSE OF THIS PLAN INCLUDES ANY SOIL, ROCK, SUBSTRATE CLAY, SAND OR OTHER NATURAL GENERATED THROUGH THE EXCAVATION OF THE SITE.

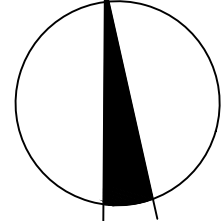
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Audited T.OBOUHOFF
Date 24/02/16
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Approved T.LIAKOPOULOS
Date 24/02/16
AN 885344

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									
-100 TO -6m	-1.8 TO -1.6m	-0.6 TO -0.4m	0.6 TO 0.8m	1.8 TO 2m	-6 TO -5m	-1.6 TO -1.4m	-0.4 TO -0.2m	0.8 TO 1.0m	2 TO 3m
-5 TO -4m	-1.4 TO -1.2m	-0.2 TO 0.0m	1.0 TO 1.2m	3 TO 4m	-4 TO -3m	-1.2 TO -1.0m	0.0 TO 0.2m	1.2 TO 1.4m	4 TO 5m
-3 TO -2m	-1.0 TO -0.8m	0.2 TO 0.4m	1.4 TO 1.6m	5 TO 6m	-2 TO -1.8m	-0.8 TO -0.6m	0.4 TO 0.6m	1.6 TO 1.8m	6 TO 100m



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 16
EARTHWORKS PLAN

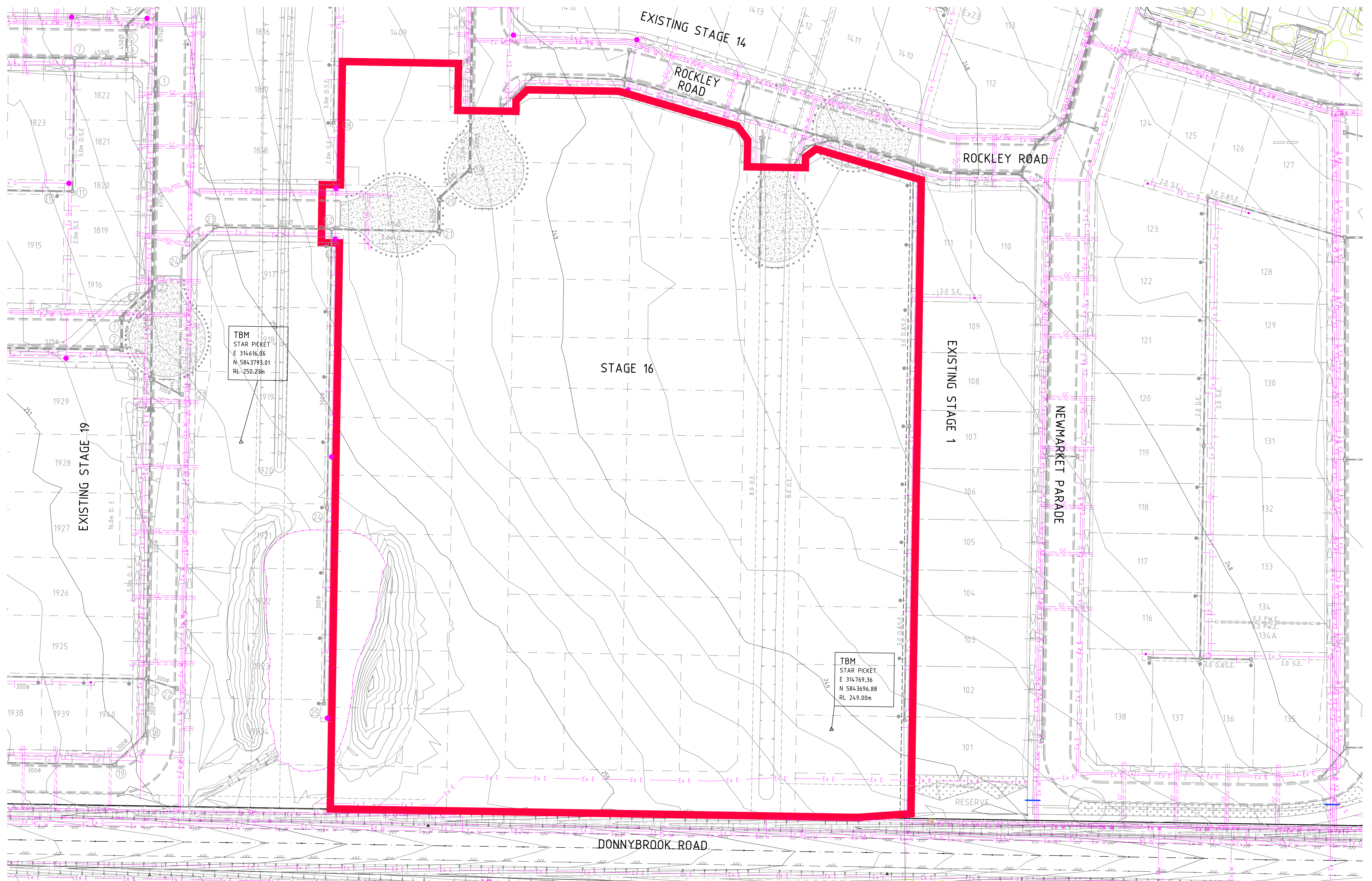
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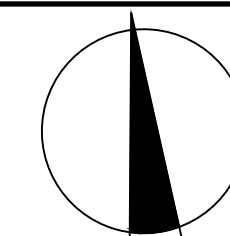
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Date 17/06/15
AN 1081634
Audited T.OBOUHOFF
Date 24/02/16
AN 912972
Approved T.LIAKOPOULOS
Date 24/02/16
AN 885345

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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 P —	EXISTING ELEC. POLE & O'HEAD LINES
— Ex D —	EXISTING STORMWATER DRAIN & PIT
— Ex T —	EXISTING TREES
— Ex D —	PREVIOUS STAGE SW DRAIN & PIT

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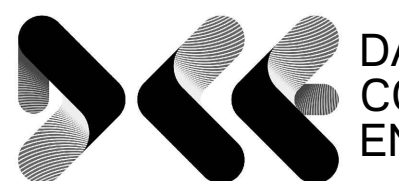


merrifield
MAB gpc

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 16
EXISTING FEATURES PLAN

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